



CIVIL SERIES (SITE

**DEMOLITION SERIES (DECO ARCHITECTS)**

ARCHITECTURAL SERIES (DECO ARCHITECTS)

MECHANICAL SERIES (SKY ENGINEERING)

## PLUMBING SERIES (SKY ENGINEERING

## ELECTRICAL SERIES (SKY ENGINEERING

**FIRE PROTECTION (SKY ENGINEERING)**

FP1.01 FIRE INTENT PLAN, NOTES &amp; DTL

## RECIPIENT

DOCUMENT TYPE:

## SCOPE OF SERVICES

NOTE TO PLAN REVIEWER

THE INTENT OF THIS PROJECT IS TO UPGRADE TO AN ACCESS CONTROL SYSTEM, RENOVATE SELECTED RESTROOMS AND MECHANICAL SYSTEMS, AND PERFORM VARIOUS MAINTENANCE UPGRADES IN SELECTED AREAS. NO ADDITIONAL SQUARE FOOTAGE WILL BE ADDED TO THE BUILDING.

STORIES ABOVE GRADE.....|

HEROIN ABOVE BOARD \*\*\*\*\*

$$A_a = \{A_t + [A_t \times I_f] + [A_t \times I_s]\}$$

$$A_a = 38,000 \text{ SQFT}$$

|   |   |
|---|---|
| TOTAL AREA IN NEW BUILDING OR ADDITION..... | N/A   |
| NUMBER OF LEVELS (INCLUDING BASEMENT).....  | 1   |
| BASEMENT.....                               | NO  |
| TOTAL AREA IN EXISTING BUILDING.....        | HIGH SCHOOL - 96,023 SQFT / ANNEX 13,725 SQFT |
| DATE CONSTRUCTION TO BEGIN.....             | ASAP  |
| ESTIMATED COMPLETION DATE.....              | ASAP  |

### PLUMBING DATA

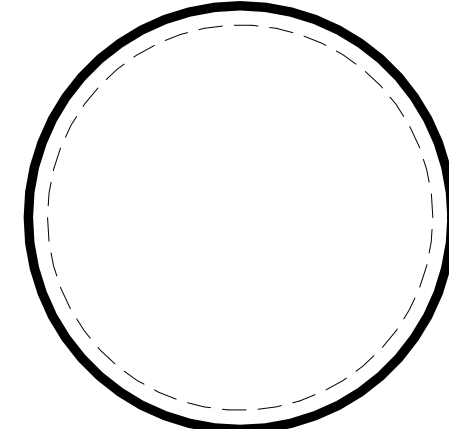
|  |   |
|--|---|
| DESIGN CAPACITY OF BUILDING.....         | NO INCREASE IN OCCUPANT LOAD  |
| ARE RESTROOMS ACCESSIBLE TO PUBLIC.....  | YES   |
| ARE RESTROOMS ACCESSIBLE TO DISABLE..... | YES   |
| SEWAGE DISPOSAL.....                     | <input type="checkbox"/> MUNICIPAL<br><input type="checkbox"/> PRIVATE<br><input checked="" type="checkbox"/> PUBLIC  |
| WATER SUPPLY.....                        | <input type="checkbox"/> RILLED WELL<br><input type="checkbox"/> CISTERN<br><input type="checkbox"/> HAULED WATER<br><input type="checkbox"/> ROOF WATER<br><input type="checkbox"/> SPRING<br><input type="checkbox"/> STEAM<br><input type="checkbox"/> IF PRIVATE INDICATE THE TYPE AND DESIGN |

THE STATE OF KENTUCKY ENFORCES THE FOLLOWING BUILDING CODES (PROVIDED BY THE DEPARTMENT OF HOUSING, BUILDINGS AND CONSTRUCTION - DIVISION OF BUILDING CODES ENFORCEMENT):

- 2018 KENTUCKY BUILDING CODE (BASED ON THE 2015 INTERNATIONAL BUILDING CODE)
- 2018 KENTUCKY BUILDING RESIDENTIAL CODE (BASED ON THE 2012 INTERNATIONAL RESIDENTIAL CODE)
- 2015 INTERNATIONAL MECHANICAL CODE
- 2012 INTERNATIONAL FIRE CODE (NEW CONSTRUCTION PROJECTS, ONLY WHEN SPECIFICALLY REFERENCED BY THE BODY OF IBC)
- 2009 INTERNATIONAL ENERGY CONSERVATION CODE
- 2002 ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
- KENTUCKY STATE PLUMBING LAW, REGULATIONS & CODE (815 KAR CHAPTER 20)
- STATE BOILER REGULATION (KRS 236, 215 KAR 15)
- 2012 NFPA IFC - FIRE PREVENTION CODE (AS DIRECTED BY 815 KAR 16.00 KENTUCKY STANDARDS OF SAFETY)
- 2010 NFPA 1 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- 2010 NFPA 13D- SPRINKLER SYSTEMS IN ONE- AND TWO-FAMILY DWELLINGS AND MANUFACTURED HOMES
- 2010 NFPA 13R- STANDPIPE, HOSE SYSTEMS
- 2009 NFPA 54- NATIONAL FUEL GAS CODE
- 2010 NFPA 70- NATIONAL ELECTRICAL CODE
- 2017 NFPA 72- NATIONAL FIRE ALARM AND SIGNALING CODE
- 2012 NFPA 101- LIFE SAFETY CODE (HEALTH CARE FACILITIES)
- GB-4501- STRUCTURAL ENGINEERS ASSOCIATION OF KENTUCKY - SPECIAL INSPECTION GUIDELINES, THIRD EDITION, MARCH 2007

THE ABOVE IS FOR REFERENCE ONLY AND IS ONLY REPRESENTATIVE OF THE MANY CODES AND STANDARDS CURRENTLY USED IN KENTUCKY. FOR SPECIFIC APPLICATIONS NOT LISTED ABOVE, CONTACT THE DEPARTMENT OF HOUSING, BUILDINGS AND CONSTRUCTION, DIVISION OF BUILDING CODES ENFORCEMENT AT (502) 573-0373 OR REFER TO CHAPTER 35 OF THE KBC.

KENTUCKY BUILDING CODES



PLAN REVIEWER

IF NO STAMP IS PRESENT, PLAN REVIEW MAY BE PENDING.  
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO  
ENSURE THAT ALL PERMITS AND APPROVALS ARE  
OBTAINED PRIOR TO COMMENCING WORK.

BY JEP; CLF

DATE 02/17/202

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| SET | CLIENT REVIEW |
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| REVISION | DESCRIPTION |
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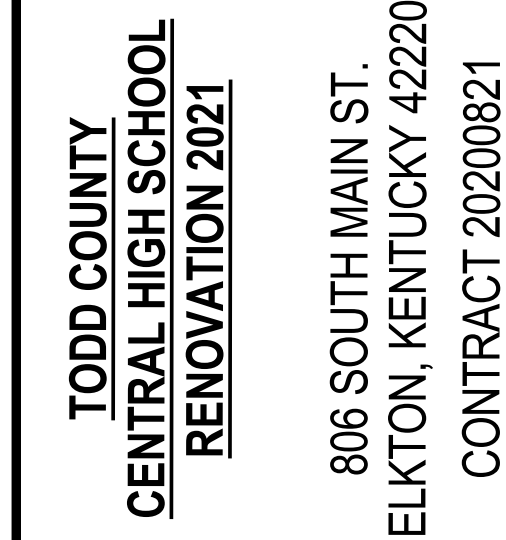
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COVER SHEET

G1.00

## GENERAL



PRODUCT SPECIFICATIONS

Elkay ezH2O® Bottle Filling Station & Versatile Bi-Level ADA Cooler, Filtered 8 GPH Light Gray. Chilling Capacity of 8.0 GPH (gallons per hour) of 50° F drinking water, based on 80° F inlet water and 90° F ambient, per ASHRAE 18 testing. Features shall include Hands Free, Visual Filter Monitor, Filtered, Green Ticker™, Laminar Flow, Antimicrobial, Real Drain. Furnished with Flexi-Guard® Safety Bubbler. Electronic Bottle Filler Sensor With Electronic Front And Side Bubbler Pushbar activation. Product shall be Wall Mount (On Wall), for indoor applications, serving 2 station(s). Unit shall be certified to UL 399 and CAN/CSA C22.2 No. 120. Unit shall be lead-free design which is certified to NSF/ANSI 61 & 372 (lead free) and meets Federal and State low-lead requirements.

|                          |   |
|--------------------------|---|
| Special Features:        | Hands Free, Visual Filter Monitor, Filtered, Green Ticker™, Laminar Flow, Antimicrobial, Real Drain |
| Finish:                  | Light Gray Granite  |
| Power:                   | 115V/60Hz   |
| Bubbler Style:           | Flexi-Guard® Safety Bubbler   |
| Activation by:           | Electronic Bottle Filler Sensor With Electronic Front And Side Bubbler Pushbar                      |
| Mounting Type:           | Wall Mount (On Wall)  |
| Chilling Option*:        | 8.0 GPH   |
| Full Load Amps:          | 6   |
| Rated Watts:             | 370   |
| Dimensions (L x W x H):  | 36-3/4" x 19" x 39-1/16"  |
| Approx. Shipping Weight: | 104 lbs.  |
| Installation Location:   | Indoor  |
| No. of Stations Served:  | 2   |

\*Based on 80° F inlet water & 90° F ambient air temp for 50° F chilled drinking water.

Special Note: \*Coming soon: The Elkay ezH2O you know and love is getting a fresh look, as shown here. In stock models may have prior logo design.

- Visual Filter Monitor: LED Filter Status Indicator for when filter change is necessary.
- Filter is certified to NSF 42 and 53 for lead, particulate, chlorine, taste and odor reduction, 3,000 gal. capacity.
- Green Ticker: Informs user of number of 20 oz. plastic water bottles saved from waste.
- Laminar flow provides clean fill with minimal splash.
- Silver Ion Antimicrobial protection on key plastic components to inhibit the growth of mold and mildew.
- Real Drain System eliminates standing water.

PART: \_\_\_\_\_ QTY: \_\_\_\_\_  
PROJECT: \_\_\_\_\_  
CONTACT: \_\_\_\_\_  
DATE: \_\_\_\_\_  
NOTES: \_\_\_\_\_  
APPROVAL: \_\_\_\_\_

AMERICAN PRIDE. A LIFETIME TRADITION.  
Like your family, the Elkay family has values and traditions that endure. For almost a century, Elkay has been a family-owned and operated company, providing thousands of jobs that support our families and communities.

Included with Product: Water Cooler (LZSTL8WSLK), Bottle Filler (LZWSR), Filter

▼ Ships in multiple boxes.

PRODUCT COMPLIANCE

ADA & ICC A117.1

ASME A112.19.3/CSA B45.4

Buy American Act

CAN/CSA C22.2 No. 120

GreenSpec®

NSF/ANSI 42, 53, 61, & 372 (lead free)

UL 399

Intertek

NSF

GreenSpec

Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards. Installation may require additional components and/or construction features to be fully compliant. Consult the local Authority Having Jurisdiction if necessary.

Installation Instructions (PDF)

5 Year Limited Warranty on the refrigeration system of the unit.

Electrical components and water system are warranted for 12 months from date of installation. Warranty pertains to drinking water applications only. Non-drinking water applications are not covered under warranty.

Warranty (PDF)

OPTIONAL ACCESSORIES

ST300C - WaterSentry Plus Replacement Filter (Bottle Fillers)

LKAPREZL - Elkay Cane Apron for EZ Gray

MLP200 - Accessory - In Wall Carrier (Bi-Level) for bi-level EZ, LZ, EMABF, LMABF, VIRC, LYRC models

98551C - WaterSentry Filter Mounting Cover (Gray Granite)

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other products' offerings, be certain these features are not overlooked.

Elkay REV 07/20219 2222 Camden Court © 2019 Page 1  
LZSTL8WSLK Oak Brook, IL 60023 LZSTL8WSLK\_spec.pdf

DRINKING FOUNTAIN CALCULATIONS

OCCUPANCY ESTIMATE = 600  
REQUIREMENTS  
- 2 WATER BOTTLE FILLING STATION MIN.  
- 1 DRINKING FOUNTAIN OR BOTTLE FILLING STATIONS PER 75 STUDENTS.

600 PEOPLE / 75 FOUNTAINS = 8 DRINKING FOUNTAINS.

EXISTING PLAN:  
- 5 WATER BOTTLE FILLING STATIONS  
- 6 SINGLE D.F. WATER COOLERS  
- 5 BI-LEVEL WATER COOLERS WHICH EQUALS A TOTAL OF 16 WATER COOLERS.

PLUMBING LEGEND

● SINGLE BOTTLE FILLER / DRINKING FOUNTAIN COMBO - WITH FILTERED REFRIGERATED WATER DISPENSING OUT A PROTECTIVE COWL.

▨ REGULAR SINGLE DRINKING FOUNTAIN WITH FILTERED REFRIGERATED WATER DISPENSING OUT A PROTECTIVE COWL.

▣ REGULAR BI-LEVEL DRINKING FOUNTAIN WITH FILTERED REFRIGERATED WATER DISPENSING OUT A PROTECTIVE COWL.

ACCEPTABLE MANUFACTURERS: ELKAY, OASIS, □ HAWS

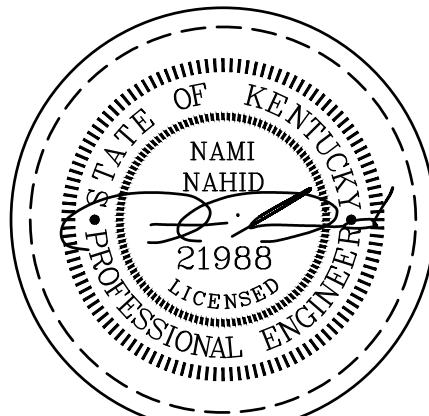
□ ALL DRINKING FOUNTAINS AND BOTTLE FILLERS HAVE BEEN INSTALLED BY OWNER.

1

OVERALL FIRST FLOOR - WATER BOTTLE FILLING STATION PLAN - KDE REFERENCE ONLY

SCALE: 1/16"=1'-0"

0 8' 16' 32'



DESIGN PROFESSIONAL



PLAN REVIEWER

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BY: ACE  
DATE: 02/18/2021  
SET: CONSTRUCTION DOCUMENTS



REVISION DESCRIPTION  
A DDM/YYYY REVISION DESCRIPTION



TODD COUNTY  
CENTRAL HIGH SCHOOL  
RENOVATION 2020  
806 SOUTH MAIN ST.  
ELKTON, KENTUCKY 42220  
CONTRACT 20200821

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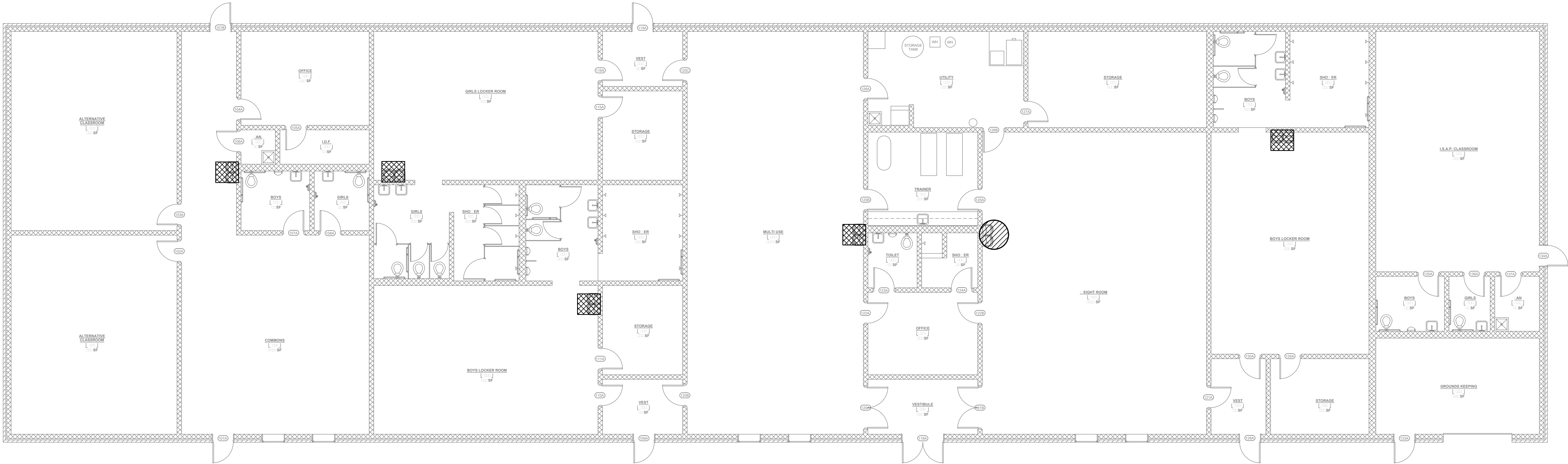
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ATER OTTLE FILLIN  
STATION PLAN

2.00

PLUM IN





1 OVERALL FIRST FLOOR □ ANNEX BLDG - WATER BOTTLE FILLING STATION PLAN - KDE REFERENCE ONLY  
SCALE: 1/8"=1'-0"

0 4' 8' 16'

**ELKAY**  
SPECIFICATIONS

**Elkay EZH2O Bottle Filling Station & Versatile Bi-Level ADA Cooler**  
**Filtered 8 GPH Light Gray**  
**Model LZSTL8WSLK**

**PRODUCT SPECIFICATIONS**

Elkay ezH2O® Bottle Filling Station & Versatile Bi-Level ADA Cooler, Filtered 8 GPH Light Gray. Chilling Capacity of 8.0 GPH (gallons per hour) of 50° F drinking water, based on 60° F inlet water and 90° F ambient, per ASHRAE 18 testing. Features shall include Hands Free, Visual Filter Monitor, Filtered, Green Ticker™, Laminar Flow, Antimicrobial, Real Drain. Furnished with Flexi-Guard® Safety Bubbler. Electronic Bottle Filler Sensor With Electronic Front And Side Bubbler Pushbar activation. Product shall be Wall Mount (On Wall), for indoor applications, serving 2 station(s). Unit shall be certified to UL 369 and CAN/CSA C22.2 No. 120. Unit shall be lead-free design which is certified to NSF/ANSI 61 & 372 (lead free) and meets Federal and State low-lead requirements.

|                                 |   |
|---------------------------------|---|
| <b>Special Features:</b>        | Hands Free, Visual Filter Monitor, Filtered, Green Ticker™, Laminar Flow, Antimicrobial, Real Drain |
| <b>Finish:</b>                  | Light Gray Granite  |
| <b>Power:</b>                   | 115V/60Hz   |
| <b>Bubbler Style:</b>           | Flexi-Guard® Safety Bubbler   |
| <b>Activation by:</b>           | Electronic Bottle Filler Sensor With Electronic Front And Side Bubbler Pushbar                      |
| <b>Mounting Type:</b>           | Wall Mount (On Wall)  |
| <b>Chilling Option:</b>         | 8.0 GPH   |
| <b>Full Load Amps</b>           | 8   |
| <b>Rated Watts</b>              | 370   |
| <b>Dimensions (L x W x H):</b>  | 36-3/4" x 19" x 39-1/16"  |
| <b>Approx. Shipping Weight:</b> | 104 lbs.  |
| <b>Installation Location:</b>   | Indoor  |
| <b>No. of Stations Served:</b>  | 2   |

**Special Note:** \*Coming soon: The Elkay ezH2O you know and love is getting a fresh look, as shown here. In stock models may have prior logo design.

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- Laminar flow provides clean fill with minimal splash.
- Silver Ion Antimicrobial protection on key plastic components to inhibit the growth of mold and mildew.
- Real Drain System eliminates standing water.

**5 Year Limited Warranty** on the refrigeration system of the unit. Electrical components and water system are warranted for 12 months from date of installation. **Warranty pertains to drinking water applications only. Non-drinking water applications are not covered under warranty.**

**Warranty (PDF)**

**OPTIONAL ACCESSORIES**

|   |
|---|
| 913000 - WaterSentry Plus Replacement Filter (Bottle Fillers)   |
| LKAPREZL - Elkay Cane Apron for EZ Gray   |
| MLP200 - Accessory - In Wall Carrier (Bi-Level) for bi-level EZ, LZ, EMABE, LMABE, VISC, LVISC models |
| 98551C - WaterSentry Filter Mounting Cover (Gray Granite)   |

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit [elkay.com](#) for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.

Elkay REV 07182019  
[LZSTL8WSLK](#)

2222 Camden Court  
Oak Brook, IL 60052

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LZSTL8WSLK\_spec.pdf

AMERICAN PRIDE. A LIFETIME TRADITION.

Like your family, the Elkay family has values and traditions that endure. For almost a century, Elkay has been a family-owned and operated company, providing thousands of jobs that support our families and communities.

**Included with Product:** Water Cooler (LZSTL8WSLC), Bottle Filler (LZWSR), Filter

**▼ Ships in multiple boxes.**

**PRODUCT COMPLIANCE**

ADA & ICC A117.1  
ASME A112.19.3/CSA B45.4  
Buy American Act  
CAN/CSA C22.2 No. 120  
GreenSpec®  
NSF/ANSI 42, 53, 61, & 372 (lead free)  
UL 369

Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards. Installation may require additional components and/or construction features to be fully compliant. Consult the local Authority Having Jurisdiction if necessary.

[Installation Instructions \(PDF\)](#)

DRINKING FOUNTAIN CALCULATIONS

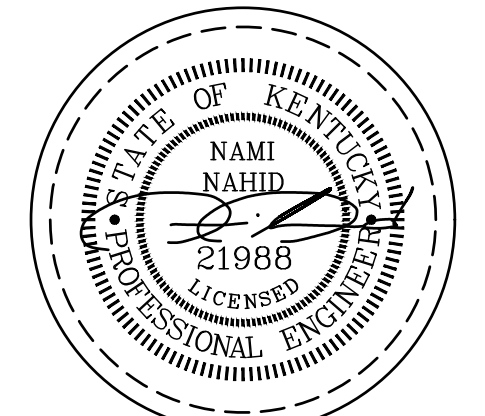
OCCUPANCY ESTIMATE = 600  
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- 2 WATER BOTTLE FILLING STATION MIN.  
- 1 DRINKING FOUNTAIN OR BOTTLE FILLING STATIONS PER 75 STUDENTS.

600 PEOPLE / 75 FOUNTAINS = 8 DRINKING FOUNTAINS.

EXISTING PLAN:  
- 5 WATER BOTTLE FILLING STATIONS  
- 6 SINGLE D.F. WATER COOLERS  
- 5 BI-LEVEL WATER COOLERS WHICH EQUALS A TOTAL OF 16 WATER COOLERS.

PLUMBING LEGEND

- SINGLE BOTTLE FILLER / DRINKING FOUNTAIN COMBO. WITH FILTERED REFRIGERATED WATER DISPENSING OUT A PROTECTIVE COWL.
  - REGULAR SINGLE DRINKING FOUNTAIN WITH FILTERED REFRIGERATED WATER DISPENSING OUT A PROTECTIVE COWL.
  - REGULAR BI-LEVEL DRINKING FOUNTAIN WITH FILTERED REFRIGERATED WATER DISPENSING OUT A PROTECTIVE COWL.
- ACCEPTABLE MANUFACTURERS: ELKAY, OASIS, □ HAWS
- ALL DRINKING FOUNTAINS AND BOTTLE FILLERS HAVE BEEN INSTALLED BY OWNER.
- FOR KY DEPARTMENT OF EDUCATION USE ONLY



DESIGN PROFESSIONAL



PLAN REVIEWER

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BY: ACE  
DATE: 02/18/2021  
SET: CONSTRUCTION DOCUMENTS



| REVISION | DESCRIPTION                   |
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TODD COUNTY  
CENTRAL HIGH SCHOOL  
RENOVATION 2020

806 SOUTH MAIN ST.  
ELKTON, KENTUCKY 42220

CONTRACT 20200821

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ATER OTTLE FILLIN  
STATION PLAN

2.01

PLUM IN



[illegible]

THE GENERAL CONTRACTOR SHALL GUARANTEE THE WORK FOR ONE (1) YEAR AFTER SUBSTANTIAL COMPLETION OF THE WORK.

THE GENERAL CONTRACTOR SHALL PERFORM A ONE (1) YEAR WARRANTY WALK-THROUGH/INSPECTION WITH THE OWNER'S REPRESENTATIVE UPON REQUEST.

THE CONTRACTOR SHALL LEAVE A COPY OF REDLINED AS-BUILT DRAWINGS FOR THE OWNER/OWNER'S REPRESENTATIVE NOTING ALL REVISIONS OF THE WORK UPON COMPLETION OF CONSTRUCTION.

UPON COMPLETION OF THE WORK AND BEFORE FINAL PAYMENT IS MADE, THE CONTRACTOR SHALL SECURE AND DELIVER TO THE OWNER ALL GUARANTEES AND/OR WARRANTIES ON ALL EQUIPMENT SUPPLIED AND/OR INSTALLED BY THE CONTRACTOR AND

[illegible]

1. CORRESPONDENCE TO THE ARCHITECT. ALL SHOW DRAWINGS AND RELATED DRAWINGS TO BE REVIEWED AND APPROVED BY GC PRIOR TO SENDING TO THE ARCHITECT.

2. THE MATERIALS AND EQUIPMENT ARE LEFT TO THE GENERAL CONTRACTOR, HIS SUBCONTRACTORS AND VENDORS TO FURNISH AND INSTALL AS NECESSARY FOR A COMPLETED PROJECT. ANY QUESTIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

3. IN CASE OF A BID PROJECT - THE GENERAL CONTRACTOR SHALL FURNISH ALL MATERIALS & EQUIPMENT SHOWN ON THE DRAWINGS AND SPECIFICATIONS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES. THE VENDOR SHALL SPLIT OUT ALL LABOR/WORK/MATERIALS OR ANY SPECIAL ARRANGEMENTS TO BE PROVIDED BY OWNER OR OTHERS.

EXCEPTION: REFER TO LISTING OF ITEMS TO BE FURNISHED BY OWNER, AND ITEMS FURNISHED BY OWNER AND INSTALLED BY GC.

4. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR EXAMINING PERSONALLY AND CONDUCTING ANY RESEARCH OR INVESTIGATIONS THEY DEEM NECESSARY FOR THE PLANNING AND EXECUTION OF THEIR WORK. THE SUBMISSION OF A BID OR PROPOSAL SHALL BE CONSIDERED AN ACKNOWLEDGMENT OF THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE THE PLANS AND EXISTING CONDITIONS. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR THE MATERIALS AND/OR LABOR DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL NOT BE RECOGNIZED. UNLESS THESE DIFFICULTIES COULD NOT HAVE BEEN FORSEEN EVEN THOUGH PROPER EXAMINATION HAD BEEN MADE.

5. THE GENERAL CONTRACTOR AND OWNER AGREE THAT ANY UNFORESEEN CONDITION THAT IS DISCOVERED DURING THE BIDDING AND THAT IS NOT SHOWN ON THE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INVESTIGATE AND CORRECT THE CONDITION BEFORE PROCEEDING WITH THE WORK.

6. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF THE LOCAL AND STATE BUILDING DEPARTMENT ARCHITECTURAL PLAN REVIEW FEES. THIS PAYMENT WILL BE MADE IN FULL BEFORE SUBMISSION FOR PLAN REVIEW.

7. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR ANY BUILDING OR TRADE PERMITS, LICENSE, INSPECTIONS, ETC. AND CONTRACTING THE ARCHITECT FOR ANY REQUIRED PLAN REVISIONS FOR CODE REQUIREMENTS. THE GENERAL CONTRACTOR AGREED UPON IN WRITING WITH THE OWNER.

8. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SCOPE OF WORK, AND AS DIRECTED BY THE ARCHITECT, SHALL VERIFY THE LOCATION OF ALL ACTIVE UTILITIES, UNDERGROUND AND OVERHEAD, IN ORDER TO TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING UTILITIES.

9. ALL SUBTENDERS ARE RESPONSIBLE FOR CLEANING UP ALL OF THEIR RELATED CONSTRUCTION DEBRIS DAILY AND REMOVING THEM FROM THE SITE ON A DAILY BASIS. IN JOB QUANTITY, EACH SUBTENDER WILL BE CHARGED FOR ALL RELATED EXPENSE TO DO THIS FOR THEM.

[illegible]

1. CONTRACTORS ARE TO EXERCISE PROPER PRECAUTIONS TO VERIFY ALL EXISTING CONDITIONS AND LAYOUT OF WORK ARE AS SHOWN ON THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVISION OF SUCH ERROR WILL NOT BE CONSIDERED AS A BASIS FOR A CHANGE ORDER OR EXTRA COMPENSATION.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND MEASUREMENTS (WITHIN REASONABLE TOLERANCES) OF THE BUILDING, UTILITIES AND OTHER WORK EXECUTED UNDER THIS CONTRACT.

3. DIMENSIONS ARE TYPICALLY MEASURED FROM STUD TO STUD, UNLESS NOTED OTHERWISE. DIMENSIONS MARKED "CLEAR" SHALL BE MEASURED FROM FACE TO FACE OF THE MEMBER.

4. DIMENSIONS MARKED "CLEAR" ARE TO BE WITHIN 1/8" ALONG FULL HEIGHT AND FULL WIDTH OF WALLS

5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING WORK. IF THE CONTRACTOR IN THE FIELD SHOULD ANY PROBLEMS ARISE IN THE FIELD, IF THE CONTRACTOR IS UNABLE TO DESIGN DETAIL - IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAD THE DETAIL DESIGNED BY THE ARCHITECT.

6. WORK THAT IS NOT PARTICULARLY DETAILED NOTED, OBSERVED, SHALL BE CONSTRUCTED IN LIKE FASHION AS THE WORK THAT IS PARTICULARLY DETAILED. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN A CLARITY THAT IS ACCEPTABLE TO THE GENERAL CONTRACTOR. THE ARCHITECT IS TO BE NOTIFIED IMMEDIATELY FOR REMEDY.

7. IN THE EVENT OF INCONSISTENCIES AMONG THE CONTRACT DOCUMENTS, THIS ARCHITECT IS TO BE NOTIFIED IMMEDIATELY FOR CLARITY. THE ARCHITECT'S RESPONSE SHALL BE THE BASIS FOR THE CONTRACTOR'S ACTION.

8. THE GENERAL CHARACTER OF DETAIL WORK IS SHOWN ON THE CONTRACT DOCUMENTS. SUBSEQUENT CLARIFICATIONS MAY BE OBTAINED BY THE CONTRACTOR FROM THE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING WORK. IF THE CONTRACTOR IN THE FIELD SHOULD ANY PROBLEMS ARISE IN THE FIELD, IF THE CONTRACTOR IS UNABLE TO DESIGN DETAIL - IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAD THE DETAIL DESIGNED BY THE ARCHITECT.

9. THE GENERAL CONTRACTOR OR OWNER. THESE DETAILS SHALL BECOME BINDING ELEMENTS OF THE CONTRACT DOCUMENTS AND SHALL BE CONSIDERED AS PART OF THE CONTRACT DOCUMENTS.

10. DRAWINGS AND DIAGRAMS FOR MECHANICAL, ELECTRICAL, OR PLUMBING WORK SHALL BE CONSIDERED AS DIAGRAMMATIC ONLY. CONTRACTOR SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING WORK. IF THE CONTRACTOR IN THE FIELD SHOULD ANY PROBLEMS ARISE IN THE FIELD, IF THE CONTRACTOR IS UNABLE TO DESIGN DETAIL - IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAD THE DETAIL DESIGNED BY THE ARCHITECT.

11. OTHERWISE, IN CASE OF CONFLICT, UNLESS OTHERWISE NOTED, THE ARCHITECTURAL DRAWINGS SHOW LOCATIONS FOR MECHANICAL, ELECTRICAL, OR PLUMBING ITEMS AND ACCESSORIES SHALL TAKE PRECEDENCE.

12. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING WORK. IF THE CONTRACTOR IN THE FIELD SHOULD ANY PROBLEMS ARISE IN THE FIELD, IF THE CONTRACTOR IS UNABLE TO DESIGN DETAIL - IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAD THE DETAIL DESIGNED BY THE ARCHITECT.

13. CASEWORK, MECHANICAL, ELECTRICAL, PLUMBING, AND SIMILAR DEVICES OF WHATEVER NATURE, BE COMPLETELY INSTALLED, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING WORK. IF THE CONTRACTOR IN THE FIELD SHOULD ANY PROBLEMS ARISE IN THE FIELD, IF THE CONTRACTOR IS UNABLE TO DESIGN DETAIL - IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAD THE DETAIL DESIGNED BY THE ARCHITECT.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING WORK. IF THE CONTRACTOR IN THE FIELD SHOULD ANY PROBLEMS ARISE IN THE FIELD, IF THE CONTRACTOR IS UNABLE TO DESIGN DETAIL - IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAD THE DETAIL DESIGNED BY THE ARCHITECT.

1. CONSTRUCTION OPERATIONS ARE TO BE LIMITED TO AREAS DESIGNATED ON DRAWINGS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR WILL DILIGENTLY ASSIST THE GENERAL CONTRACTOR AND OWNER IN MEETING SUDAS TIME RESTRAINTS , BUT WILL NOT BE HELD RESPONSIBLE FOR ANY FAILURE TO DO SO. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF CHICAGO.
3. ANY UTILITY LOCATES SHALL BE COORDINATED WITH THE OWNER AND OWNER.
4. ALL MATERIALS AND EQUIPMENT SHALL BE STORED IN THE MANNER SPECIFIED BY THE GENERAL PUBLIC IS HELD ON AN ABSOLUTE MINIMUM COMPLY WITH APPLICABLE CODES AND SAFETY ORDINANCES.
5. ALL MATERIALS AND EQUIPMENT SHALL BE PROPERLY STORED AND SAFEKEEPING OF PRODUCTS STORED ON THE SITE UNDER THIS CONTRACT.
6. EXCESSIVE VIBRATION, EXCESSIVE NOISE, DUST OR ODORS IS TO BE CONDUCTED IN A MANNER THAT IS APPROVED BY THE OWNER AND/OR LANDLORD. IF APPLICABLE, THESE DUTIES ARE TO BE PERFORMED AFTER TENANT BUSINESS HOURS.
7. ALL WORK SHALL BE COMPLETED WITHIN THE LIMITED TIME FRAME WITH THE LANDLORD'S WORK.
8. LIMIT USE OF SITE FOR WORK AND STORAGE TO AREAS DESIGNATED UNLESS SPECIFICALLY ADDED AREAS ARE ALLOWED IN THE CONTRACT.
9. TEMPORARY SANITARY FACILITIES FOR WORKERS OF ALL TRADES SHALL BE FURNISHED, INSTALLED AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL NOT BE USED DURING THE CONSTRUCTION OF THIS PROJECT. ALL FACILITIES AND SERVICES SHALL BE FURNISHED IN STRICT ARRANGEMENT WITH THE LAND-ORDOWNER A CONVENIENCE TIME TO PERFORM ALL WORK AND INSTALL TEMPORARY PROTECTED AREAS TO BE MAINTAINED BY THE CONTRACTOR.

1. NO PROJECT ENVIRONMENTAL REPORT FOR ANY HAZARDOUS MATERIALS, INCLUDING RADON, SPILLED CHEMICALS, U.S.T.'S, ETC. WAS PROVIDED BY THE OWNER TO ARCHITECT, THEREFORE, THIS ARCHITECT ASSUMES NO LIABILITY SHOULD ANY CONDITION ARISE THAT COULD HAVE BEEN DISCOVERED OR PREVENTED HAD SUCH INVESTIGATIONS BEEN CONDUCTED.

2. THIS ARCHITECT HAS NO PROFESSIONAL LIABILITY FOR ANY CLAIMS REGARDING HAZARDOUS MATERIALS OR THE FAILURE TO PERFORM PROFESSIONAL SERVICES TO INVESTIGATE OR REMEDIATE THE PRESENCE OF SAID MATERIALS.

[illegible]

1. GENERAL CONTRACTOR TO ENSURE THAT CONSTRUCTION AND FINISHES ARE CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. SHOULD A CONTRACTOR WORK IN SEQUENCE AFTER ANOTHER CONTRACTOR (FOR EXAMPLE, A DRYWALL CREW BEGINS WORK AFTER A FRAMING CREW), COMMENCEMENT OF WORK SHALL REQUIRE THE CONTRACTOR TO ACCEPTANCE OF PREVIOUS WORK AS SATISFACTORY.

2. REPAIR AND PREPARE EXISTING SURFACES (IF APPLICABLE) PRIOR TO APPLICATION OF NEW FINISH.

3. ALL CODE-REQUIRED LABELS (SUCH AS "1", FACTORY MUTUAL, OR ANY EQUIPMENT IDENTIFICATION, PERFORMANCE RATING, NAME OR ADDRESS OF MANUFACTURER, OR OTHER IDENTIFYING INFORMATION) SHALL BE REMOVED FROM ALL EQUIPMENT.

4. COORDINATE WITH OWNERS DESIGNATED REPRESENTATIVE FOR DELIVERY AND PLACEMENT OF ALL FURNITURE AND WALL-HUNG EQUIPMENT.

5. PAINT AND OTHER FINISHES ARE TO BE APPLIED TO CREATE A SMOOTH, ACCEPTABLE FINISH. ALL FINISHES SHALL ADHERE TO A CONSISTENT PROFESSIONAL QUALITY.

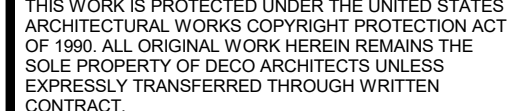
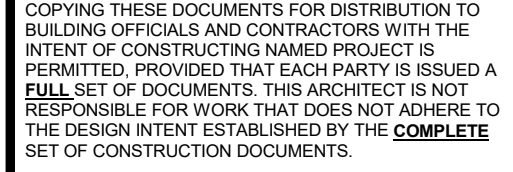
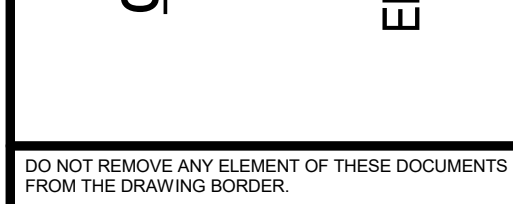
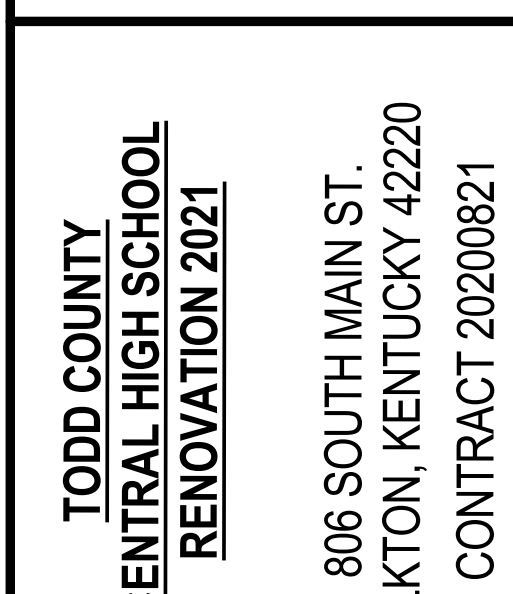
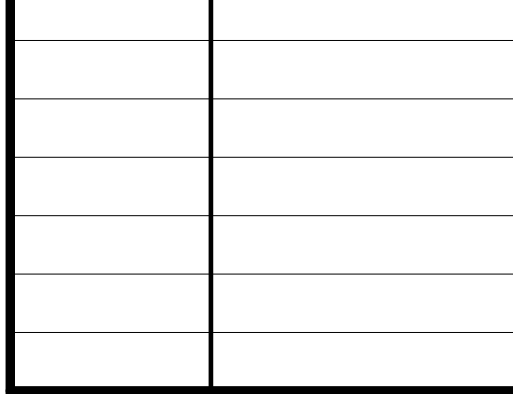
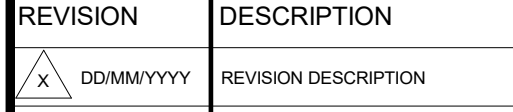
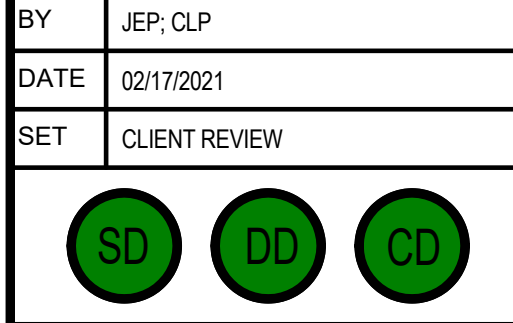
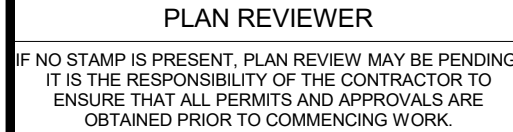
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## SYMBOL LEGEND

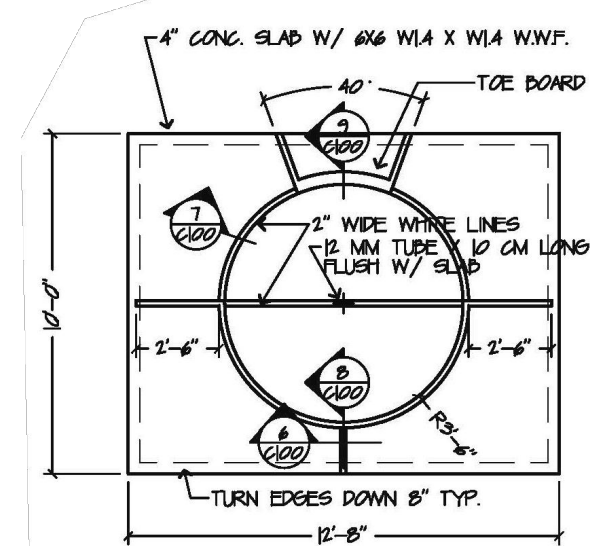
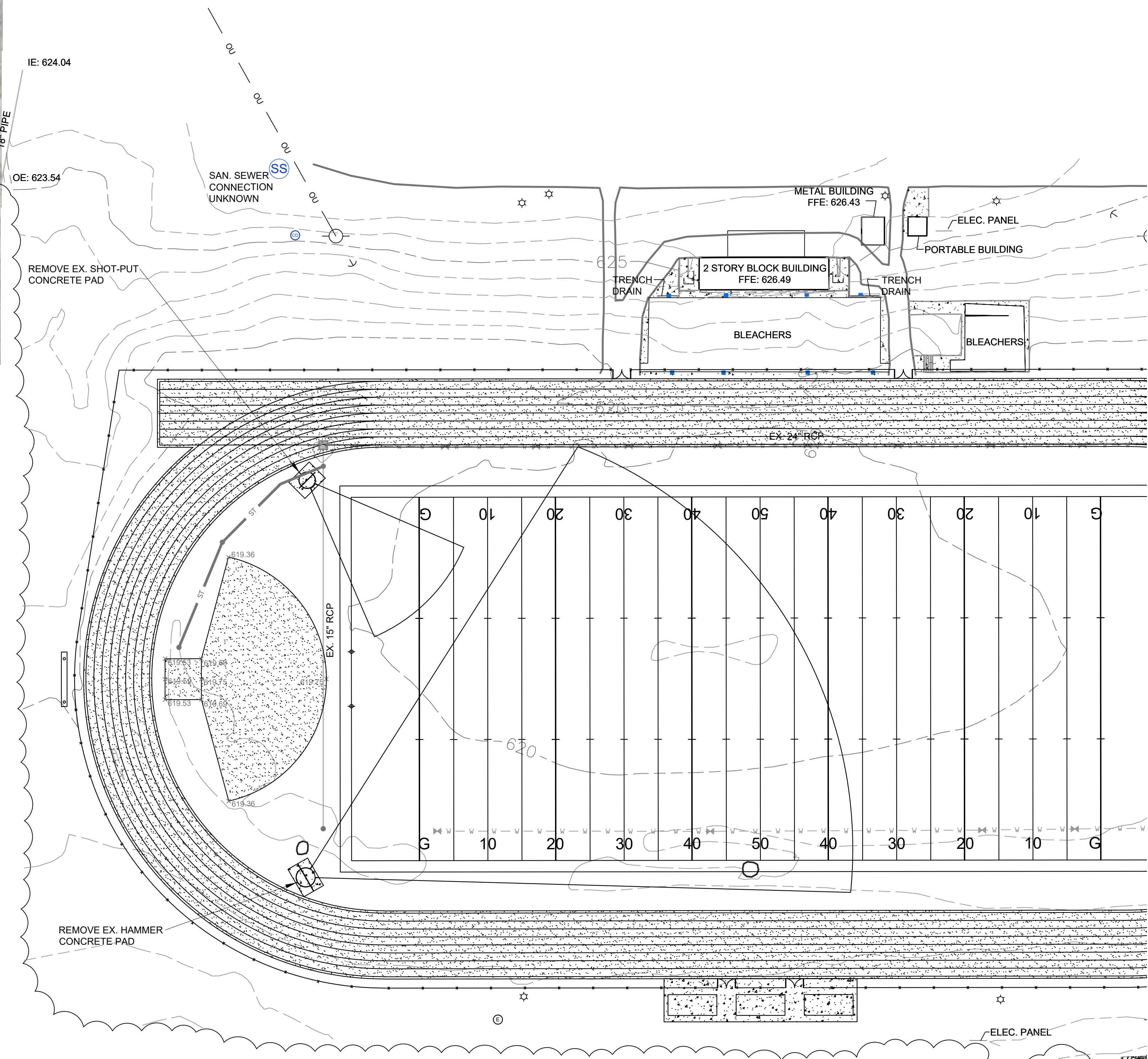
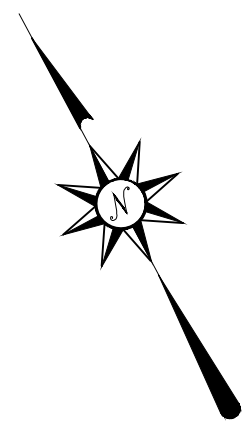
## ABBREVIATIONS

## VICINITY MAP

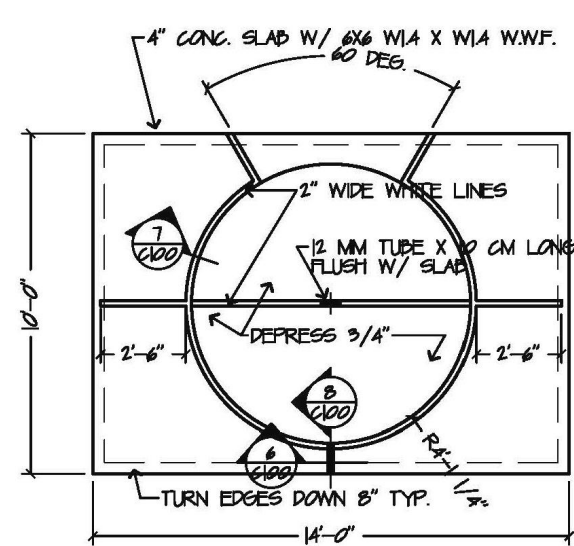
## SITE MAP



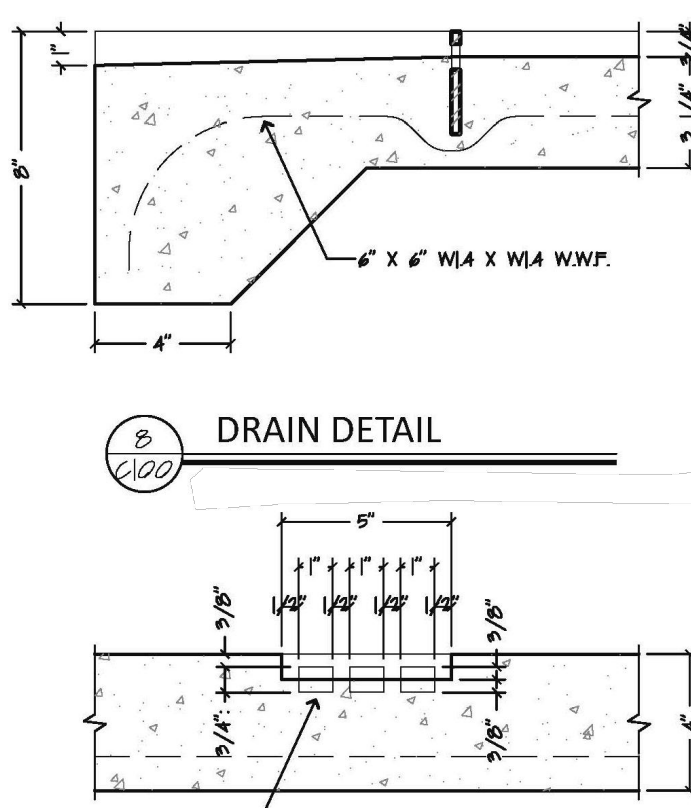




A  
2100 SHOT-PUT PLAN

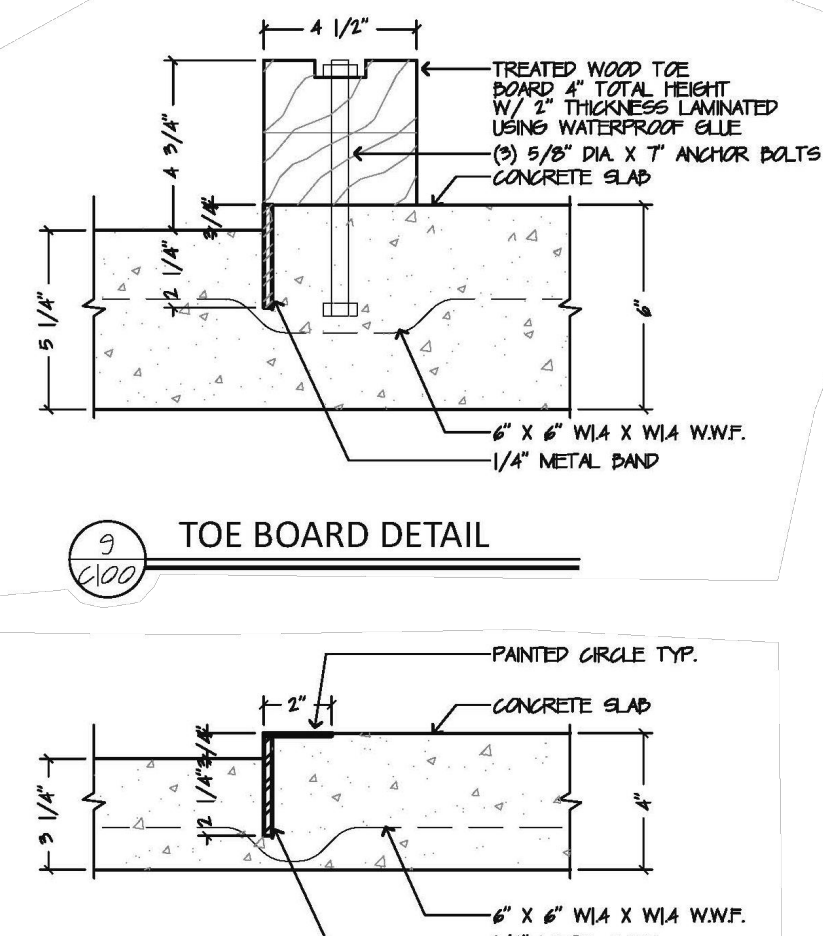


B  
2100 HAMMER PLAN



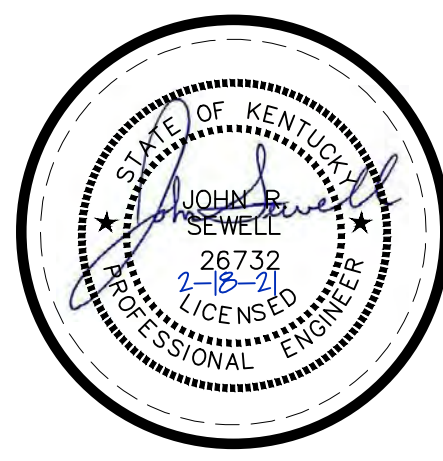
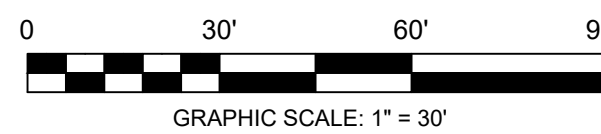
C  
2100 DRAIN DETAIL

C  
2100 DRAIN DETAIL

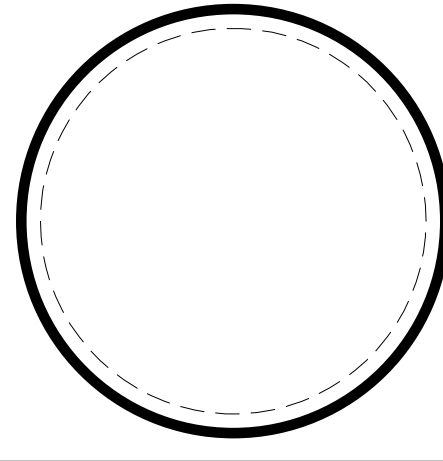


D  
2100 TOE BOARD DETAIL

D  
2100 DRAIN DETAIL



DESIGN PROFESSIONAL



PLAN REVIEWER

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OBTAINED PRIOR TO COMMENCING WORK.

BY J. SEI ELL  
DATE 02/18/2021  
SET CONSTRUCTION DOCUMENTS



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CONTRACT 20200821

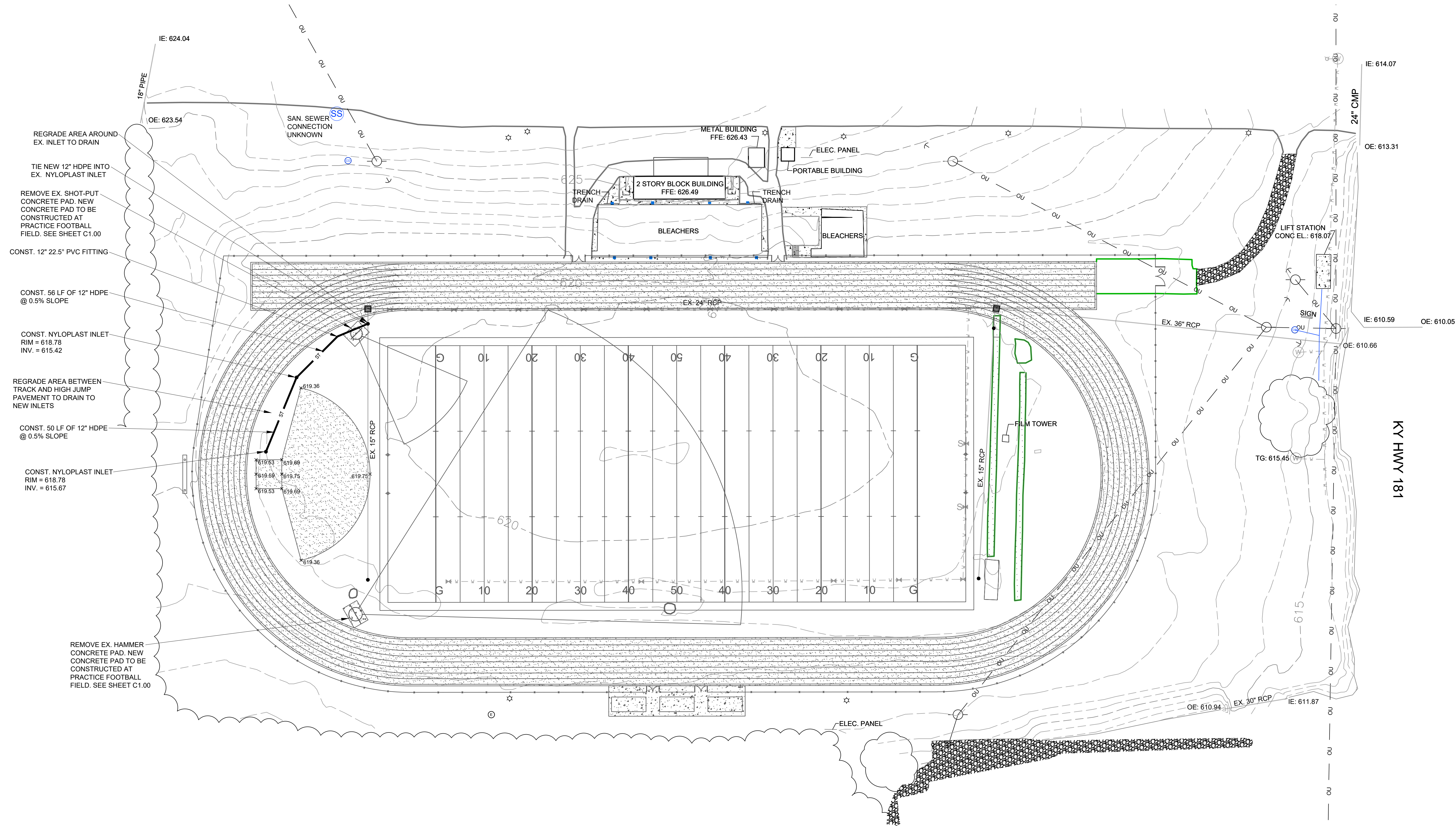
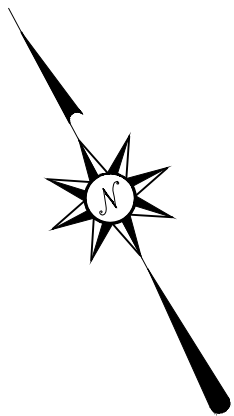
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SHOT-PUT  
HAMMER  
SITE PLAN

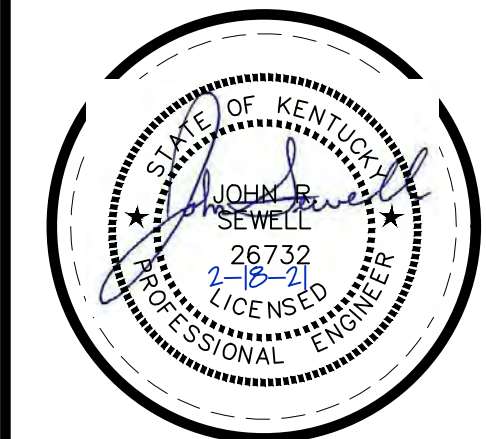
C-1.00

CIVIL

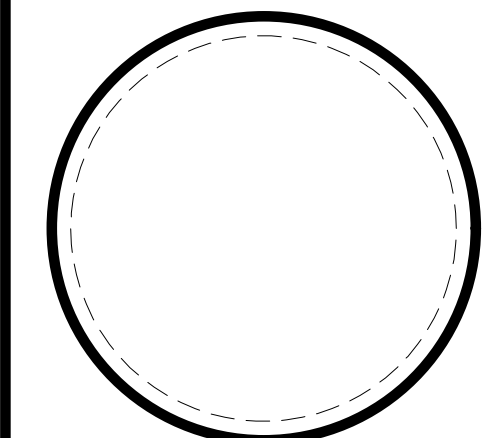




- REGRADE AREA AROUND EX. INLET TO DRAIN
- TIE NEW 12" HDPE INTO EX. NYLOPLAST INLET
- REMOVE EX. SHOT-PUT CONCRETE PAD. NEW CONCRETE PAD TO BE CONSTRUCTED AT PRACTICE FOOTBALL FIELD. SEE SHEET C1.00
- CONST. 12" 22.5" PVC FITTING
- CONST. 58 LF OF 12" HDPE @ 0.5% SLOPE
- CONST. NYLOPLAST INLET RIM = 618.78 INV. = 615.42
- REGRADE AREA BETWEEN TRACK AND HIGH JUMP PAVEMENT TO DRAIN TO NEW INLETS
- CONST. 50 LF OF 12" HDPE @ 0.5% SLOPE
- CONST. NYLOPLAST INLET RIM = 618.78 INV. = 615.67
- REMOVE EX. HAMMER CONCRETE PAD. NEW CONCRETE PAD TO BE CONSTRUCTED AT PRACTICE FOOTBALL FIELD. SEE SHEET C1.00



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| BY   | I. SEI ELL             |
| DATE | 02/18/2021             |
| SET  | CONSTRUCTION DOCUMENTS |



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**TODD COUNTY  
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**TRACK &  
FOOTBALL FIELD  
DRAINAGE REPAIRS**

**C-2.00**

CIVIL





AREA OF PAVEMENT TO BE REPAIRED.  
AREA APPROX. 21 FT. WIDE BY 37 FT. LONG.  
CONTRACTOR TO:

- SAW CUT EDGES OF REPAIR AREA
- MILL APPROX. 9.5 INCHES
- APPLY BACK 6" DGA
- APPLY 2" ASPHALT BASE
- APPLY 1.25" OF ASPHALT SURFACE

AREA OF PAVEMENT TO BE RESEALED AND RESTRIPED APPROX. 29,300 SQ. YDS.  
CONTRACTOR TO:

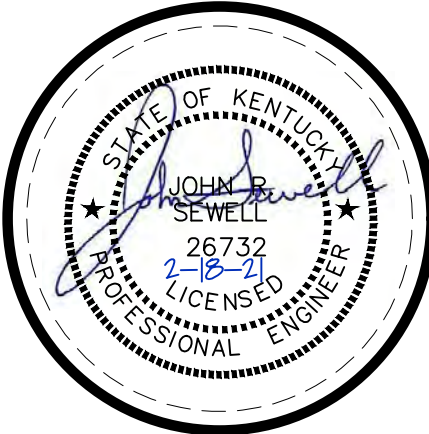
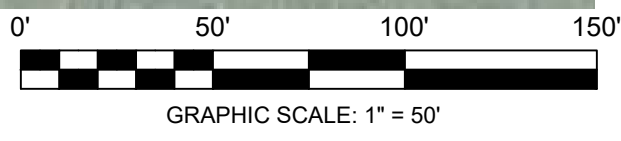
- CLEAN AND FILL CRACKS AS REQUIRED USING ASPHALTIC CRACK AND JOINT COMPOUND
- ALL AREAS OF PETROLEUM SATURATION SHALL BE BURNED, SCRAPPED - USING A STEEL BRISTLED STREET BROOM - AND COATED WITH OILSPOT PRIMER
- THE PAVEMENT SHALL BE THOROUGHLY CLEANED TO REMOVE ALL DIRT AND DEBRIS
- APPLY STAR-SEAL OR EQUAL COAL TAR EMULSION WHICH MEETS AND EXCEEDS ALL THE REQUIREMENTS OF THE U.S. AIR FORCE, FAA AND FEDERAL GOVERNMENT SPECIFICATION RP 358E (GSA-FSS) IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS. THE FINISHED COATING SHALL REPRESENT A COVERAGE RATE OF .18 GALLONS PER SQUARE YARDS PER GALLON.
- SILICA SAND OR GRADED BOILER SLAG ADDED PER GALLON OF MATERIAL
- APPLY 7,640 LF OF 4" WHITE LINES
- APPLY (195) 12" "S"
- APPLY (28) "FACULTY"
- APPLY (20) ARROWS
- APPLY (14) ADA STENCILS
- COAT (2) SPEED BUMPS

AREA OF PAVEMENT TO BE REPAIRED.  
AREA APPROX. 16 FT. WIDE BY 38 FT. LONG.  
CONTRACTOR TO:

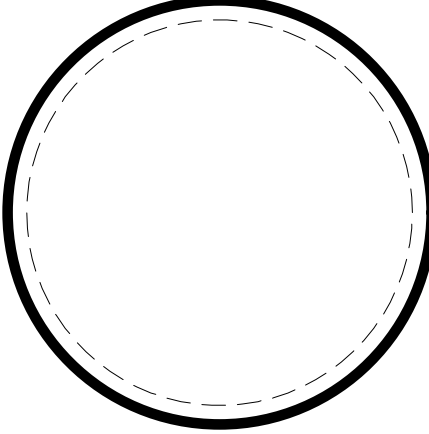
- SAW CUT EDGES OF REPAIR AREA
- MILL APPROX. 9.5 INCHES
- APPLY BACK 6" DGA
- APPLY 2" ASPHALT BASE
- APPLY 1.25" OF ASPHALT SURFACE

AREA OF PAVEMENT TO BE REPAIRED.  
AREA APPROX. 3,200 SQ. FT.  
CONTRACTOR TO:

- SAW CUT EDGES OF REPAIR AREA
- REMOVE APPROX. 8 INCHES OF EX. ASPHALT - STONE
- APPLY BACK 6" DGA
- APPLY 2" ASPHALT SURFACE



DESIGN PROFESSIONAL



PLAN REVIEWER

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ENSURE THAT ALL PERMITS AND APPROVALS ARE  
OBTAINED PRIOR TO COMMENCING WORK.

|      |                        |
|------|------------------------|
| BY   | J. SEI ELL             |
| DATE | 02/18/2021             |
| SET  | CONSTRUCTION DOCUMENTS |



| REVISION | DESCRIPTION                    |
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**TODD COUNTY  
CENTRAL HIGH SCHOOL  
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806 SOUTH MAIN ST.  
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CONTRACT 20200821

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PAVEMENT  
REPAIRS ☐  
IMPROVEMENTS

C-3.00

CIVIL

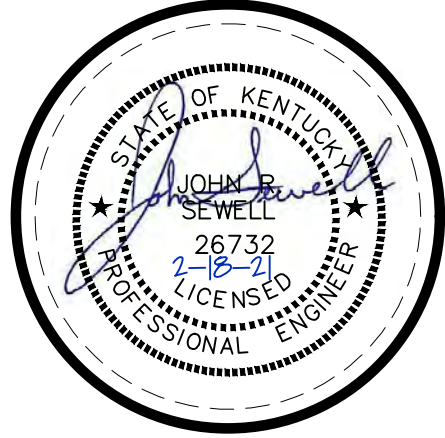




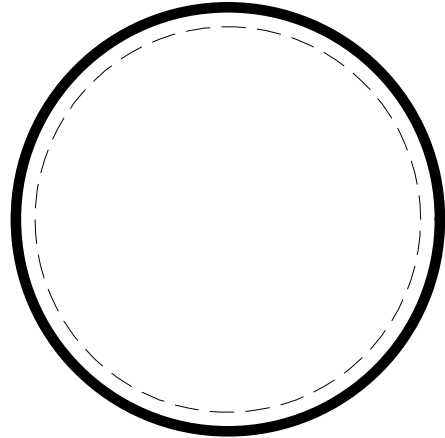
AREA TO BE PAVED. AREA APPROX. 780 SQ. YDS.  
CONTRACTOR TO:  
• GRADE ☐ SHAPE EXISTING STONE  
• APPLY DGA AS NEEDED  
• APPLY 2" OF ASPHALT BASE



GRAPHIC SCALE: 1" = 50'



DESIGN PROFESSIONAL



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BY J. SEI ELL

DATE 02/18/2021

SET CONSTRUCTION DOCUMENTS



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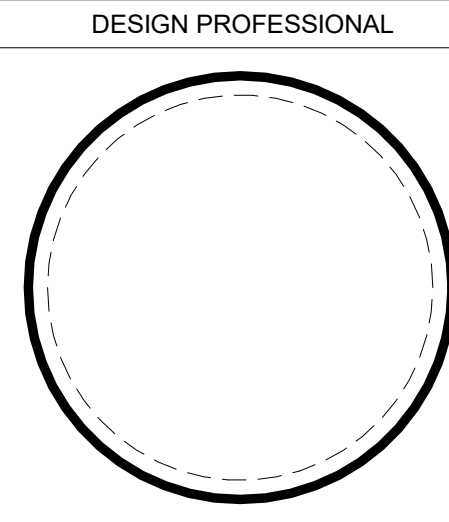
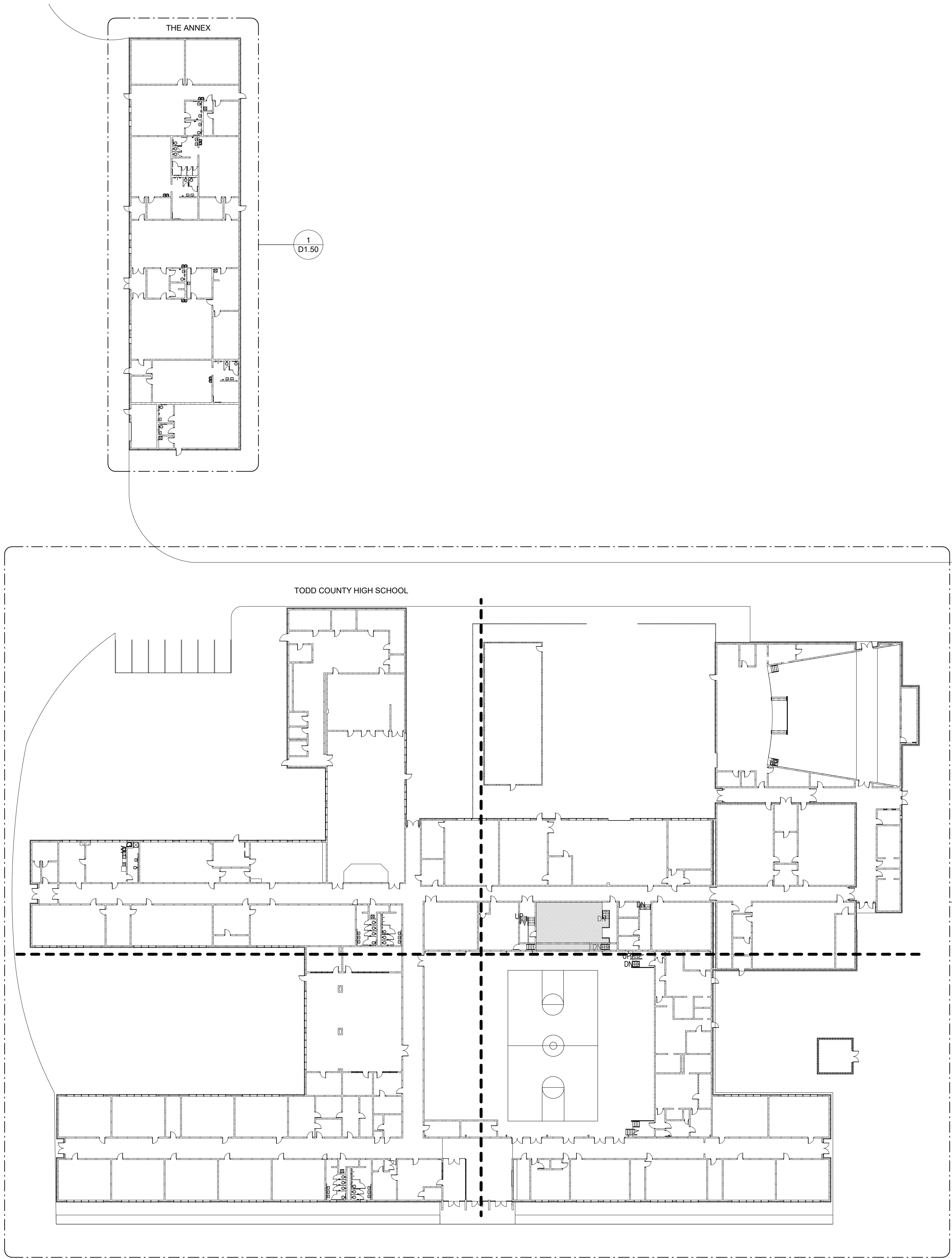
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**ACCESS ROAD  
PAVEMENT**

**C-4.00**

CIVIL





PLAN REVIEWER  
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(IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO  
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OBTAINED PRIOR TO COMMENCING WORK.)

BY JEP: CLP  
DATE 02/17/2021  
SET CLIENT REVIEW



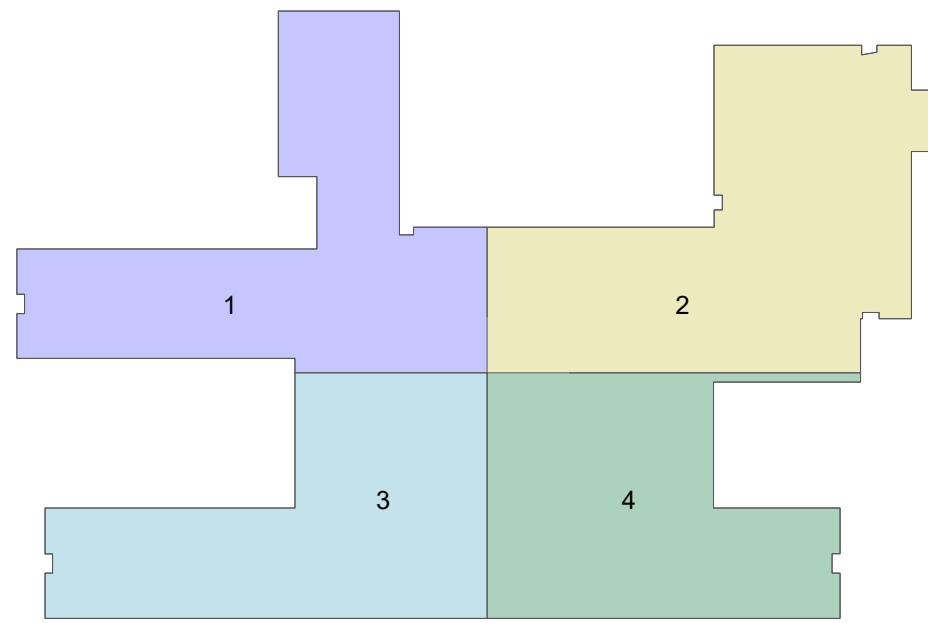
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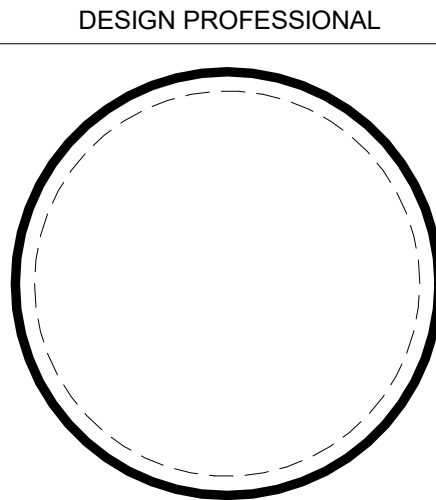
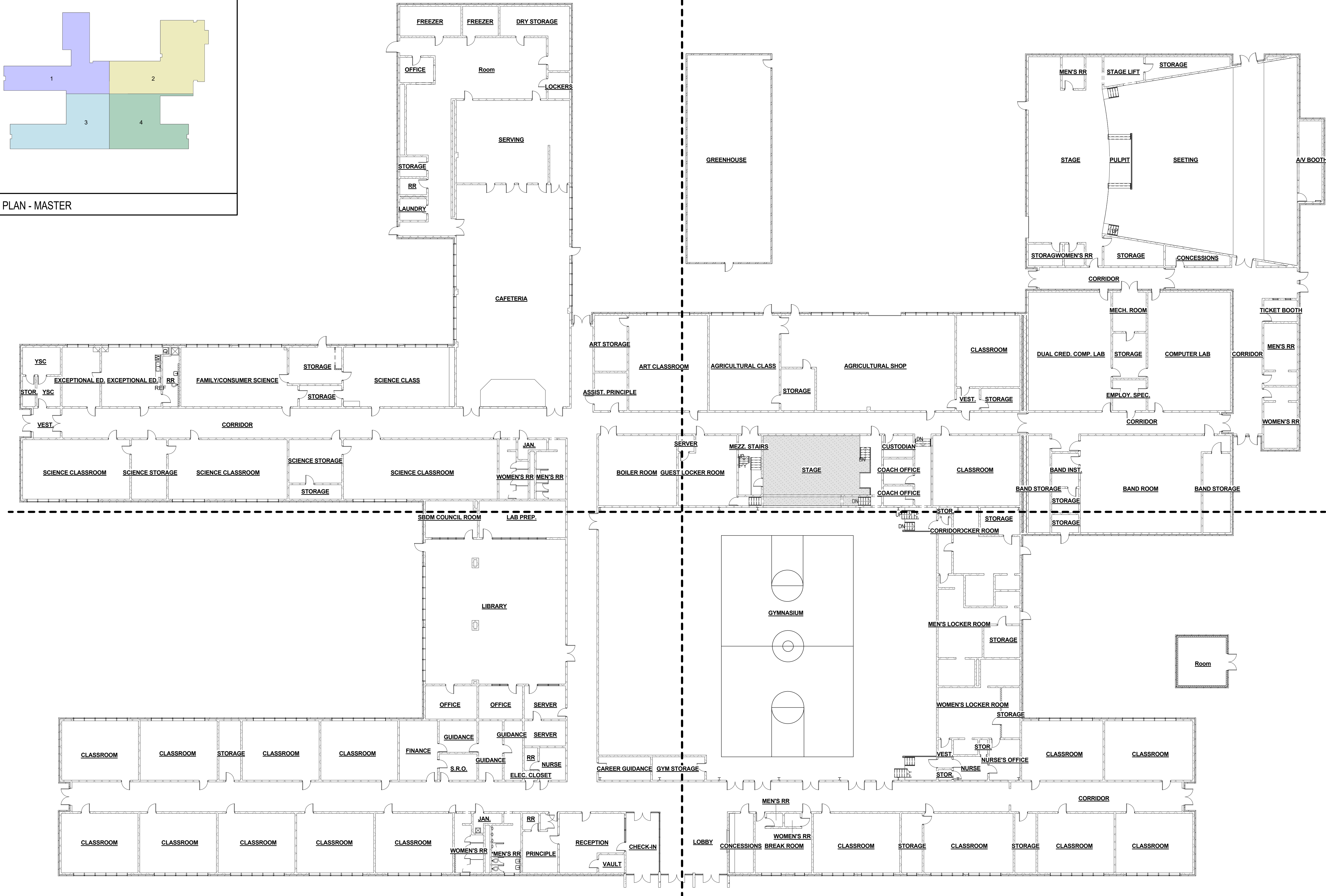
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KEY PLAN - MASTER



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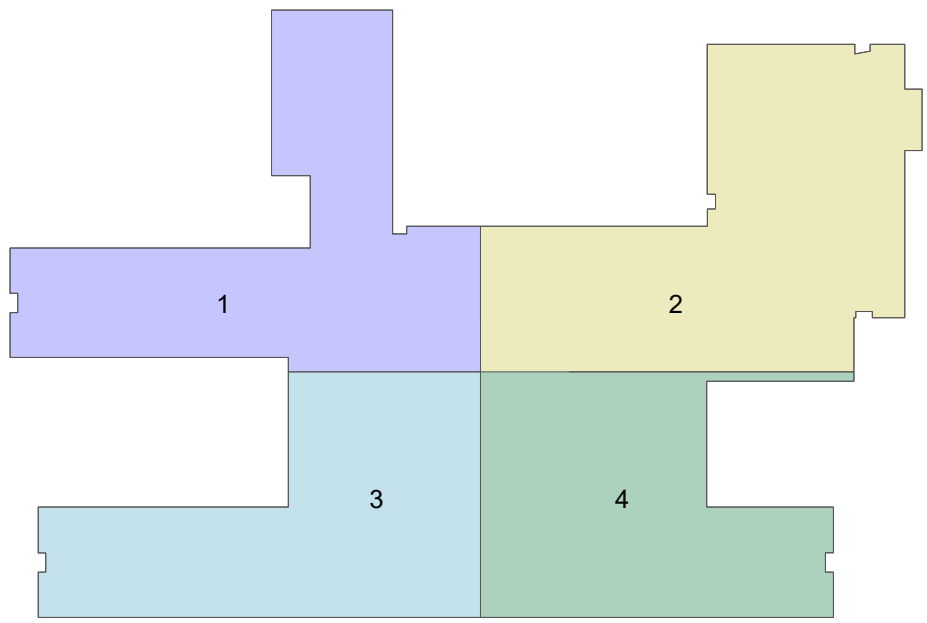
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DEMO FLOOR PLANS

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DEMOLITION





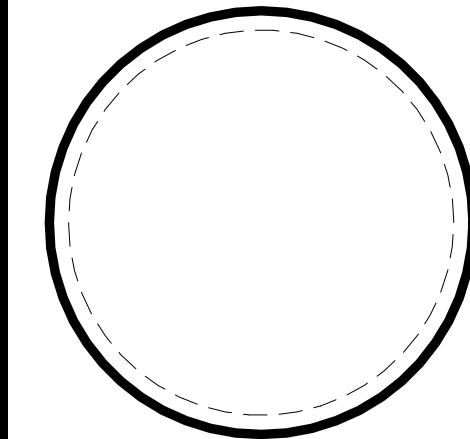
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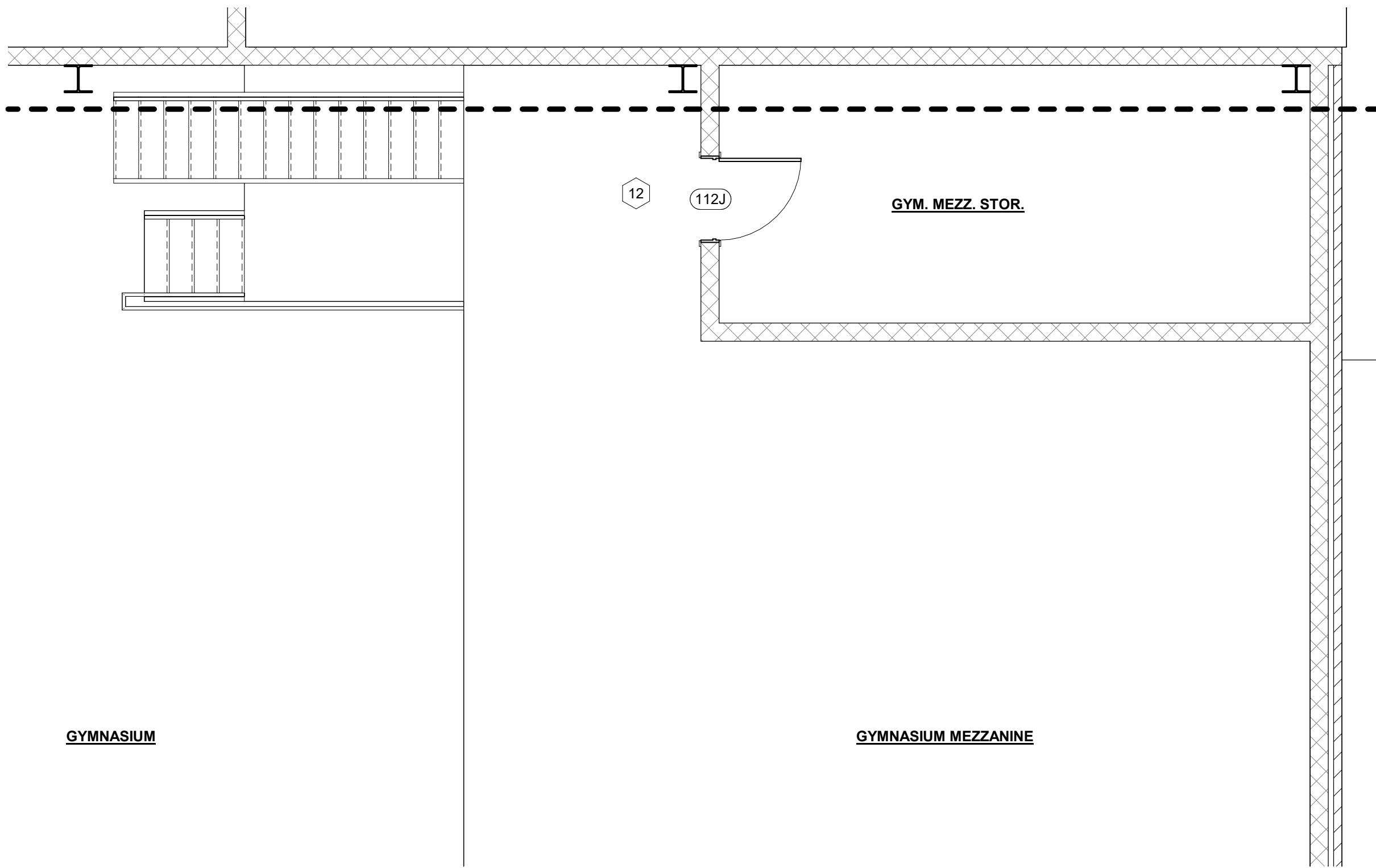
DEMO FLOOR PLANS

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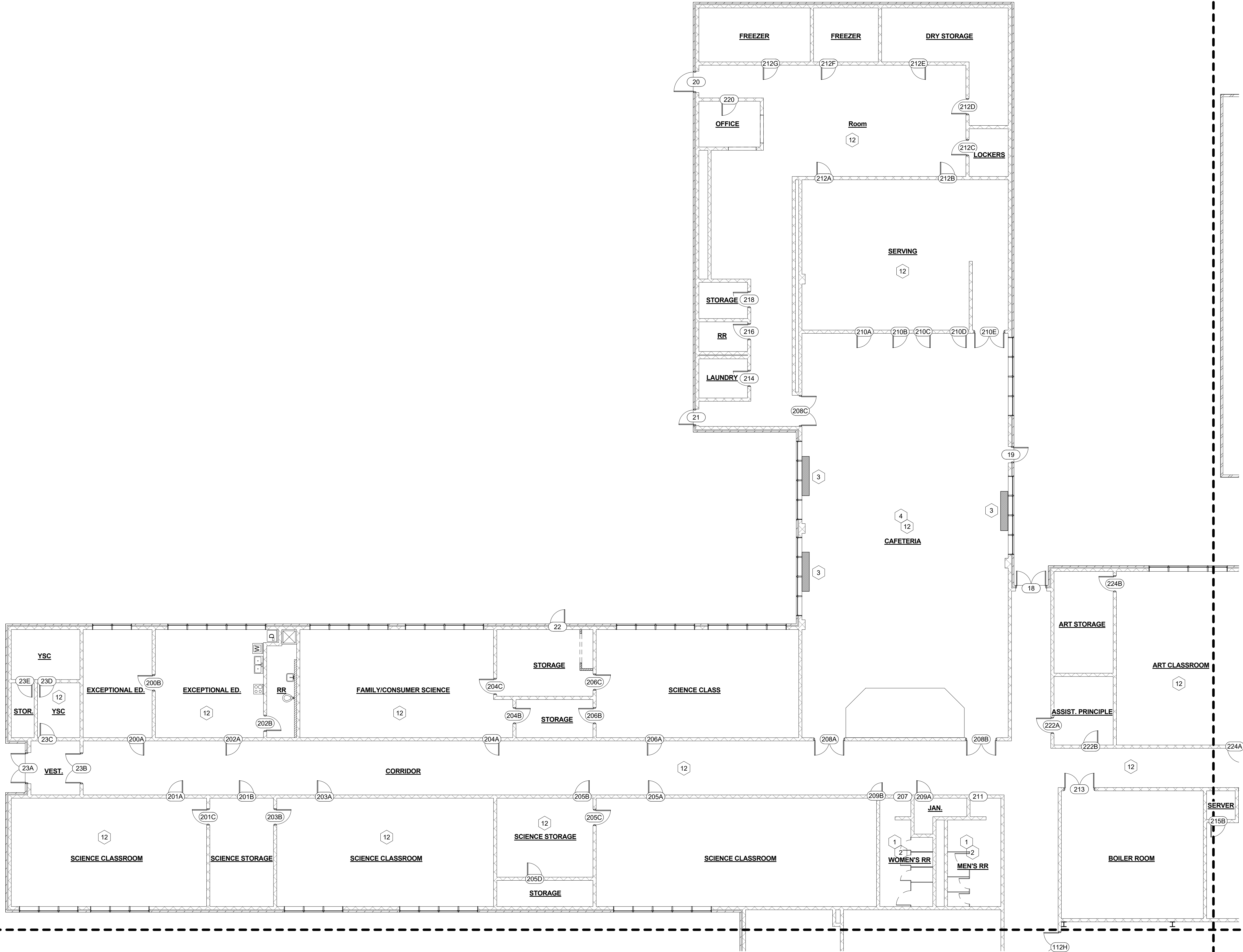


2 DEMO FLOOR PLAN - STAGE MEZZANINE



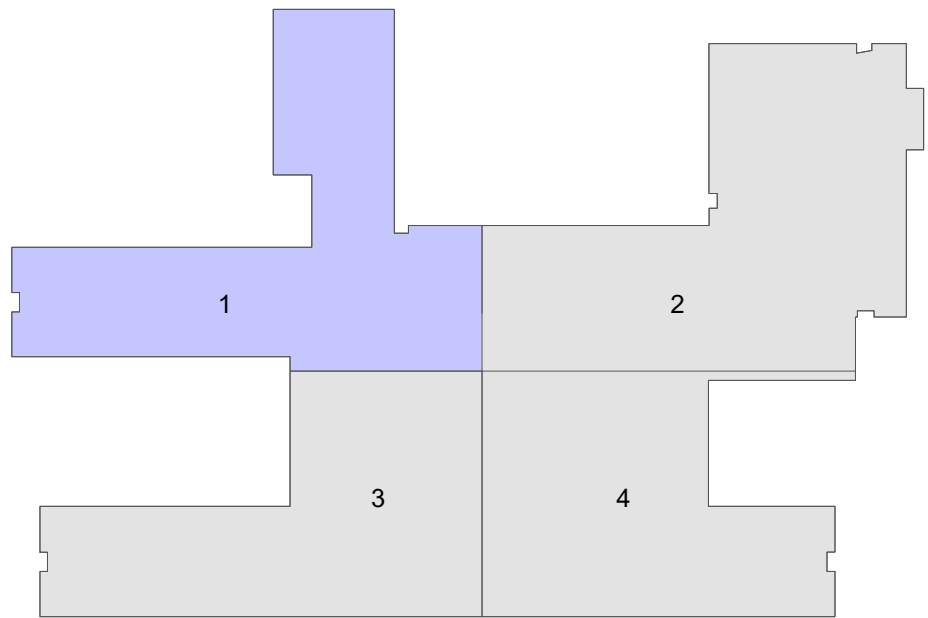
1 DEMO FLOOR PLAN - GYM MEZZANINE



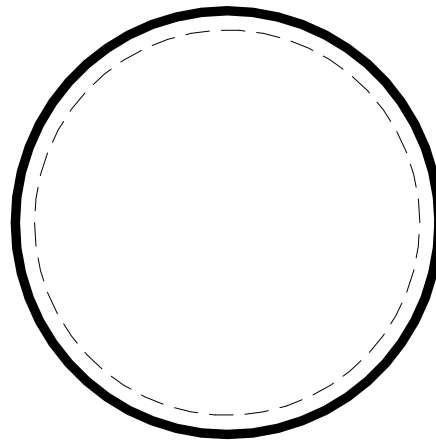


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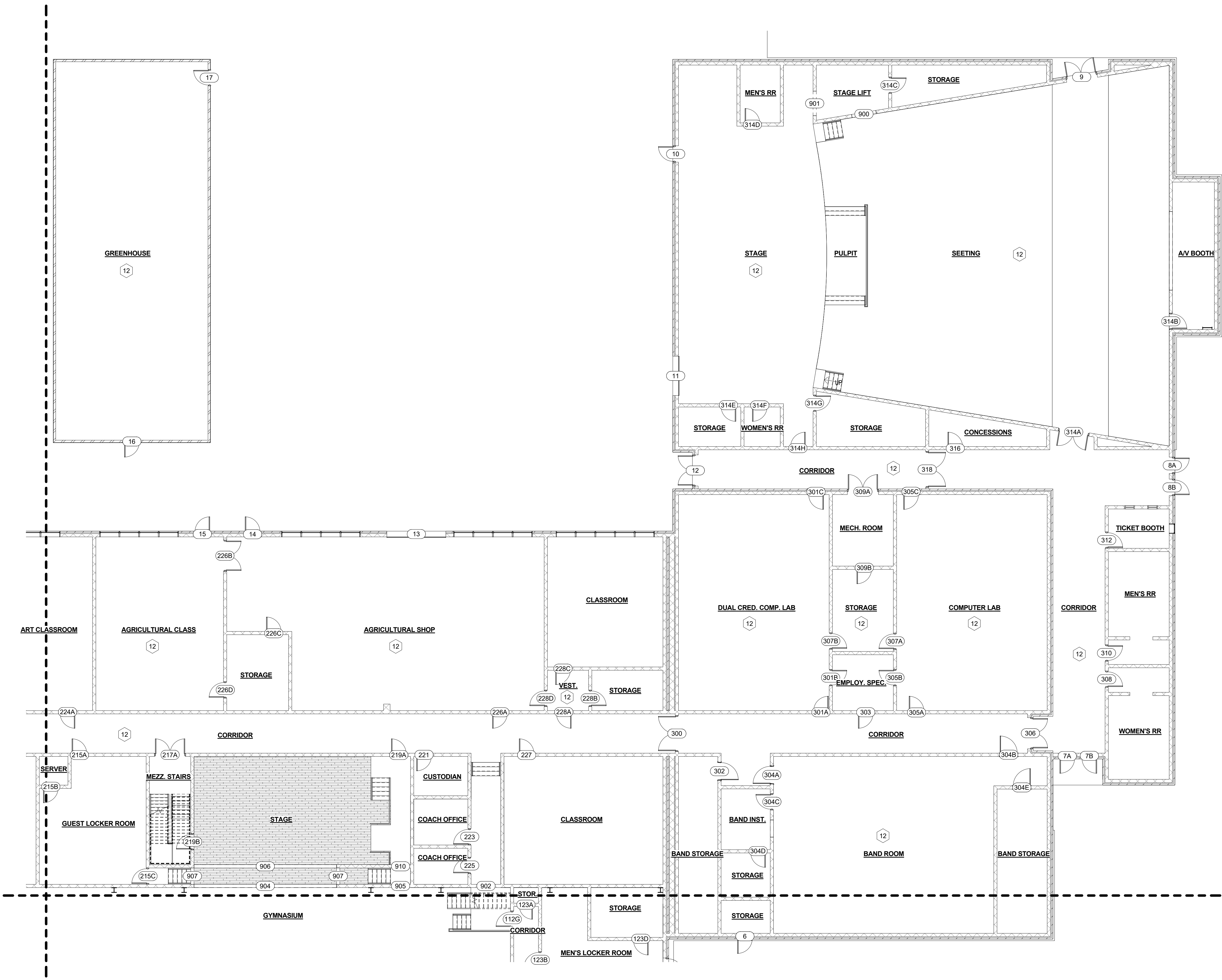
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- QUADRANT 1

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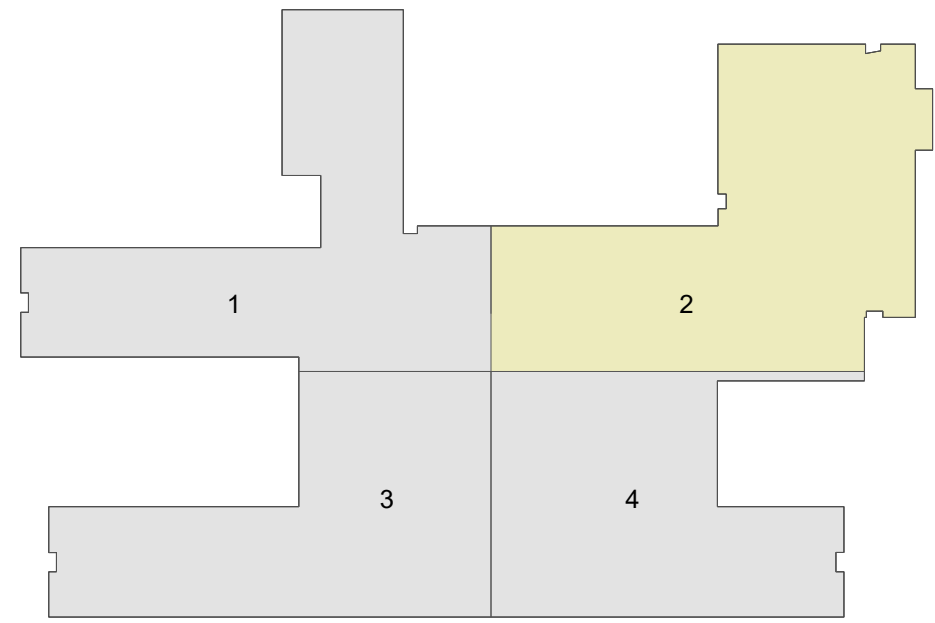
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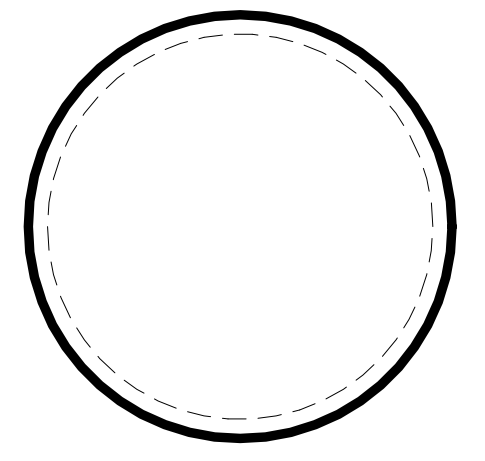


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- QUADRANT 2

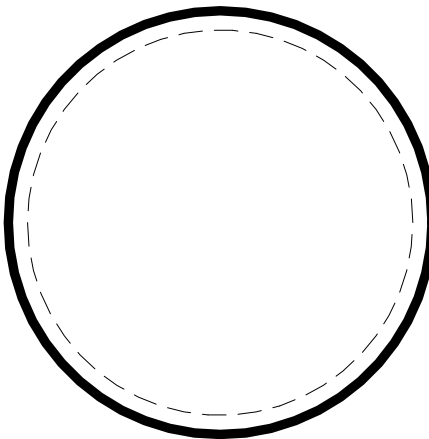
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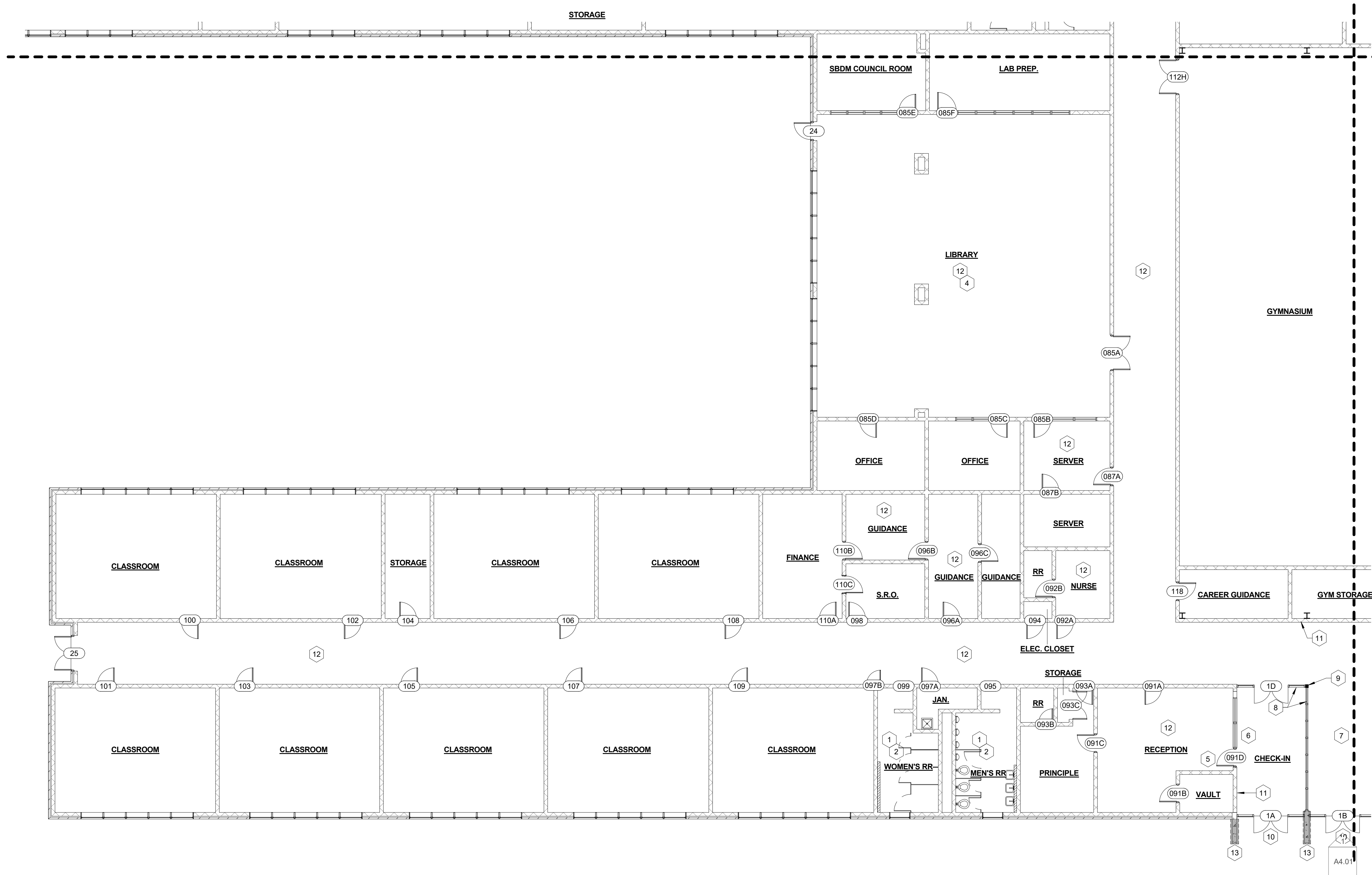
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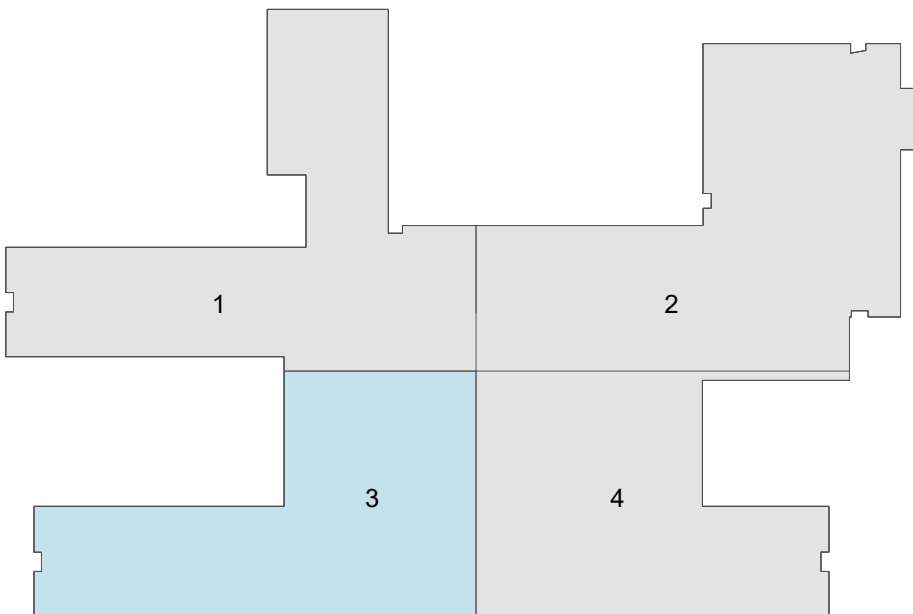
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1 ENLARGED DEMO PLAN - QUADRANT 3

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KEY PLAN - QUADRANT 3





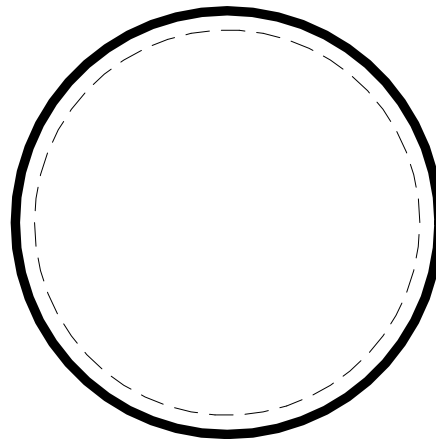


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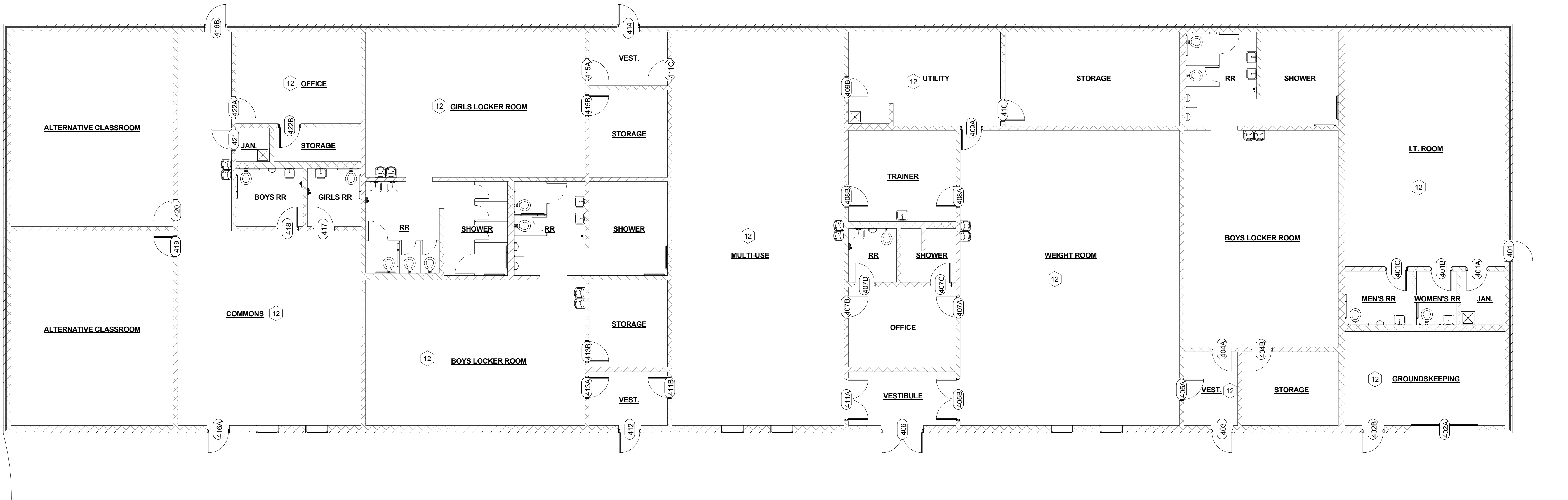
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DEMO FLOOR PLAN - ANNEX

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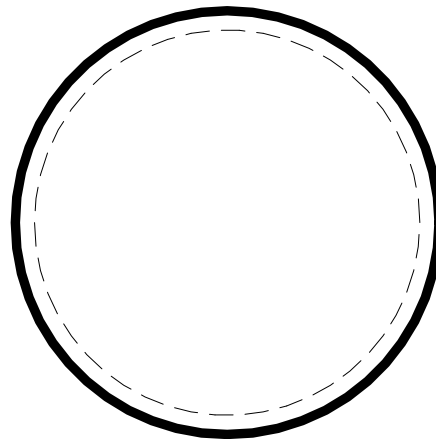
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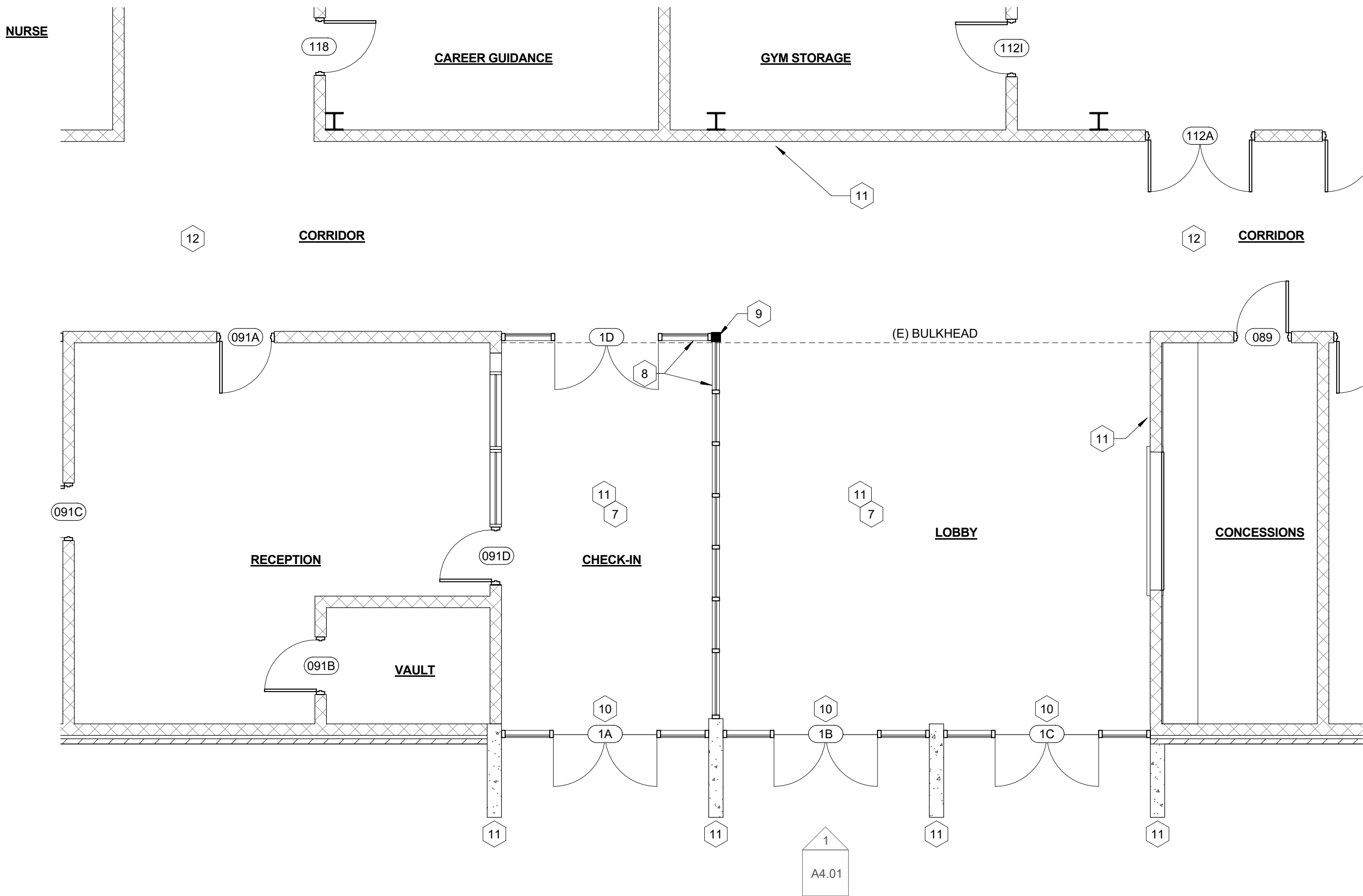
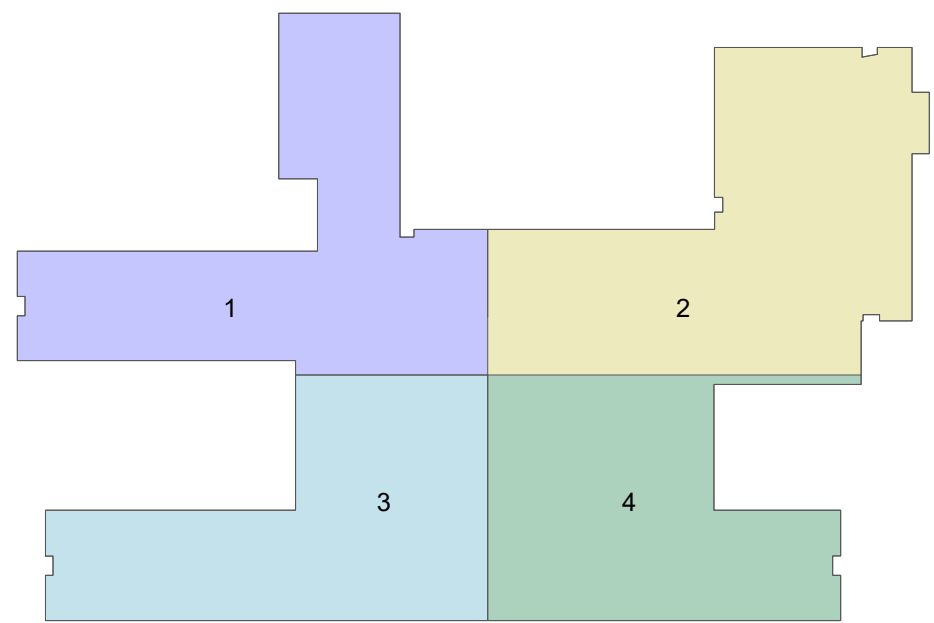
ENLARGED DEMO PLAN  
- LOBBY/RECEPTION

D1.60

DEMOLITION

DEMO NOTES

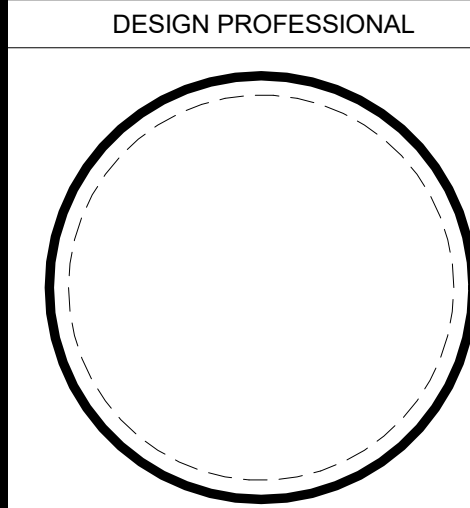
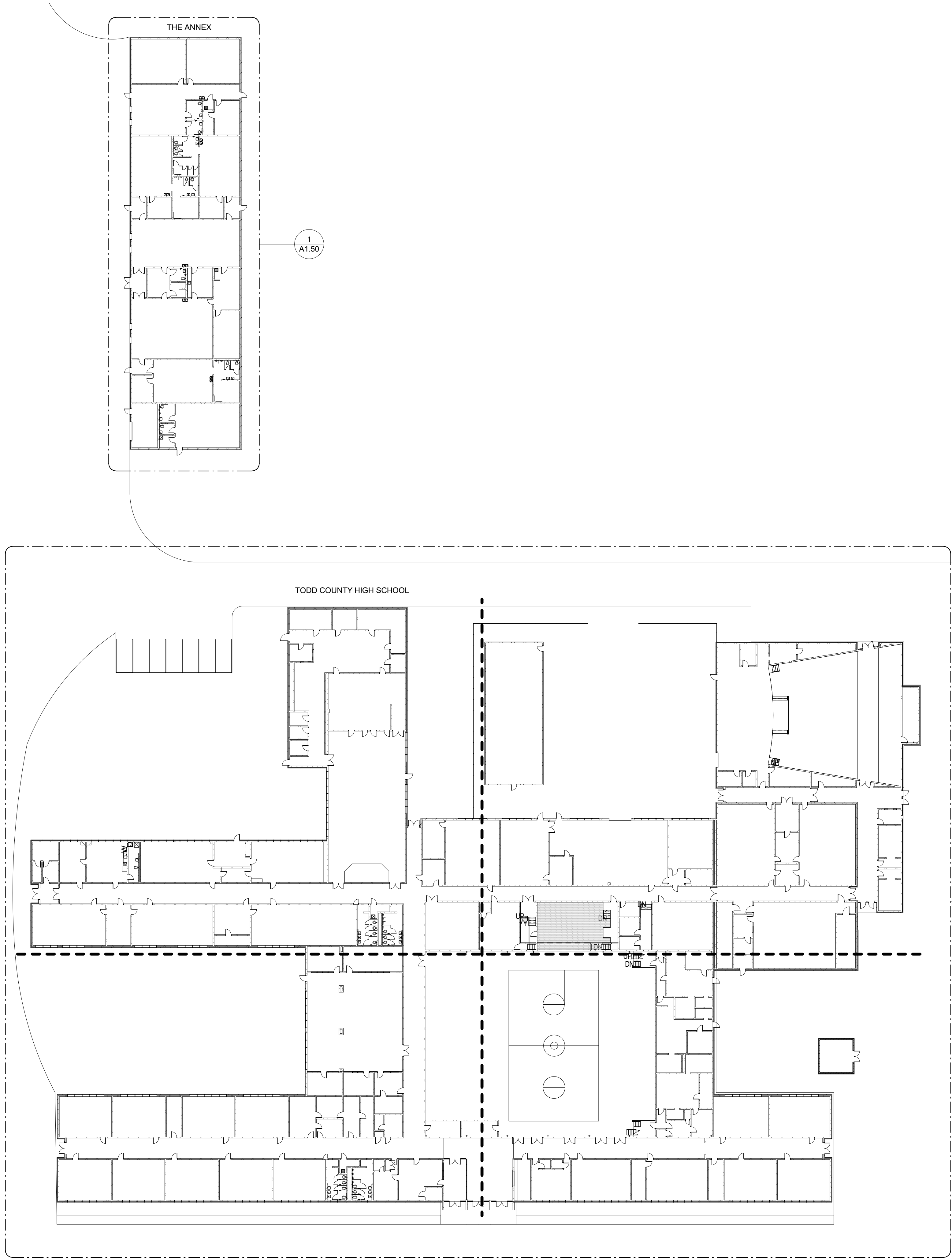
- DEMOLISH EXISTING RESTROOM PARTITIONS IN THEIR ENTIRETY. REF. A SHEET SERIES FOR LAYOUT OF NEW COMPARTMENTS AND SPECIFICATIONS.
- DEMOLISH EXISTING CEILING FOR NEW MECHANICAL AND ELECTRICAL WORK AS NOTED IN M AND E SERIES. ROOM TO RECEIVE NEW DROP CEILING PER A SHEET SERIES.
- EXISTING UNIT VENTILATOR TO BE REMOVED PER MECHANICAL SERIES. PRESERVE EXISTING EXTERIOR GRILLE FOR REFINISH. REMOVE EXISTING DAMAGED TILE AND ADHESIVE FOR REPLACEMENT.
- REMOVE EXISTING A.C.T. PANELS. PRESERVE EXISTING GRID IN PLACE. REFERENCE A SERIES FOR MORE INFORMATION ON NEW CEILING.
- NOT USED
- NOT USED
- REMOVE EXISTING A.C.T. PANELS AND CEILING GRID. NO A.C.T. DEMOLITION TO BE DONE IN HALLWAY BEYOND BULKHEAD.
- PREPARE
- EXISTING COLUMN TO REMAIN.
- REFERENCE ELEVATIONS FOR CURTAINWALL GLASS PANES TO BE REPLACED. DURING DEMOLITION SURVEY ALL PANES TO ENSURE ALL PANES ARE REPLACED AS REQUIRED.
- CLEAN WALLS IN PREPARATION FOR NEW WALL PAINT. REFERENCE INTERIOR ELEVATIONS IN A-SERIES DRAWINGS.
- REFERENCE DOOR SCHEDULES TO SEE DOORS THAT ARE TO BE REPLACED, REPAINTED, OR NEED NEW HARDWARE. PREPARE DOOR FOR NEW CONSTRUCTION WORK. THIS INCLUDES BUT IS NOT LIMITED TO REMOVING DOORS FROM HINGES, PRESSURE WASHING EXISTING FINISHES, AND REMOVAL OF EXISTING HARDWARE. FOR DOORS THAT ARE PART OF A LARGER ASSEMBLY, ENSURE ALL ELEMENTS ARE PREPPED TO RECEIVE COORDINATED FINISHES.
- DEMOLISH EXISTING WALL AS NOTED. WALLS ARE TO BE REMOVED FULLY FROM FLOOR TO ROOF CONNECTION.



1 ENLARGED DEMO PLAN - LOBBY/RECEPTION  
3/16" = 1'-0"

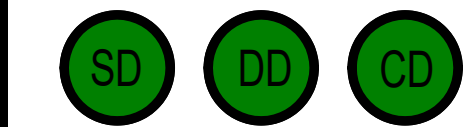
KEY PLAN - MASTER





PLAN REVIEWER  
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| BY   | JEP: CLP      |
| DATE | 02/17/2021    |
| SET  | CLIENT REVIEW |



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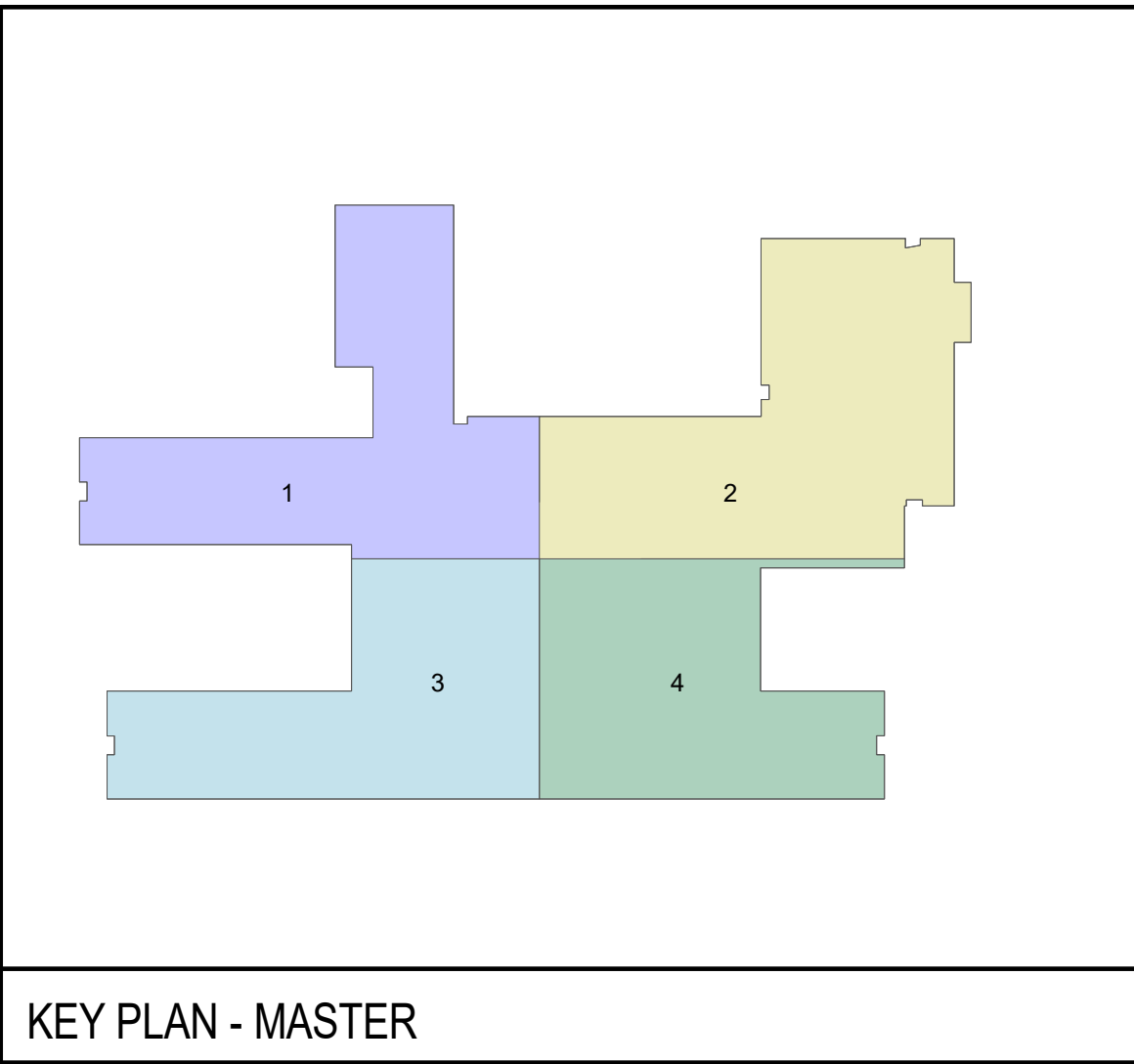
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CONTRACT 20200821

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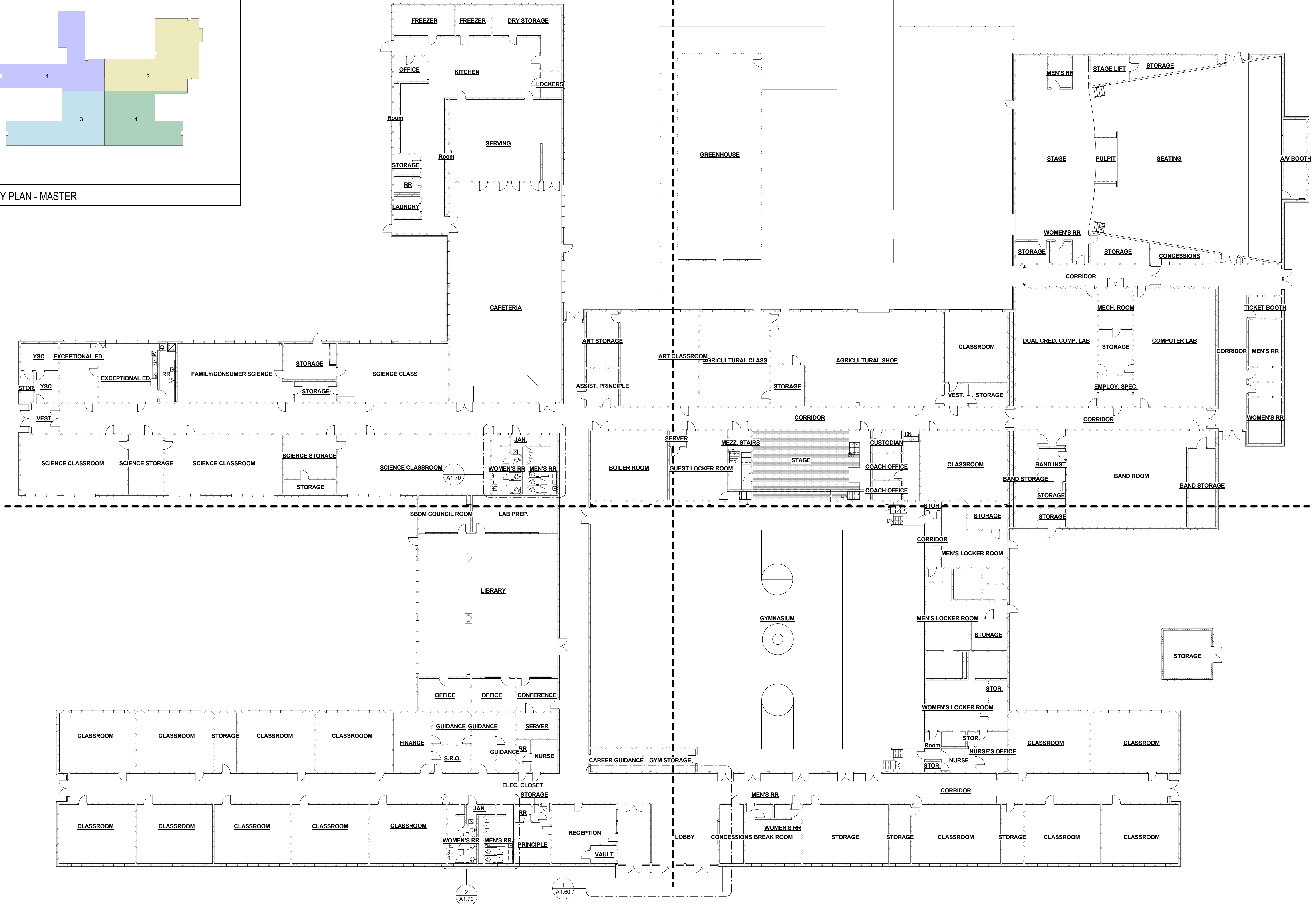
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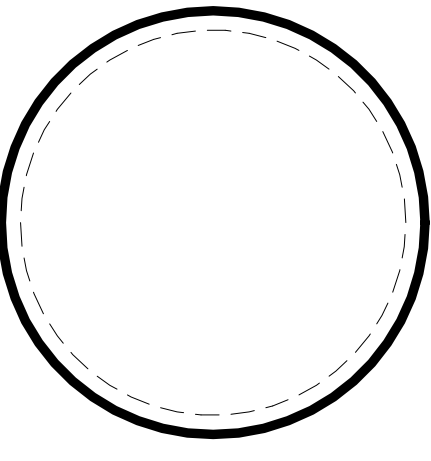
KEY PLAN - MASTER



1 FLOOR PLAN - FIRST FLOOR  
1/16" = 1'-0"



DESIGN PROFESSIONAL



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DATE 02/17/2021

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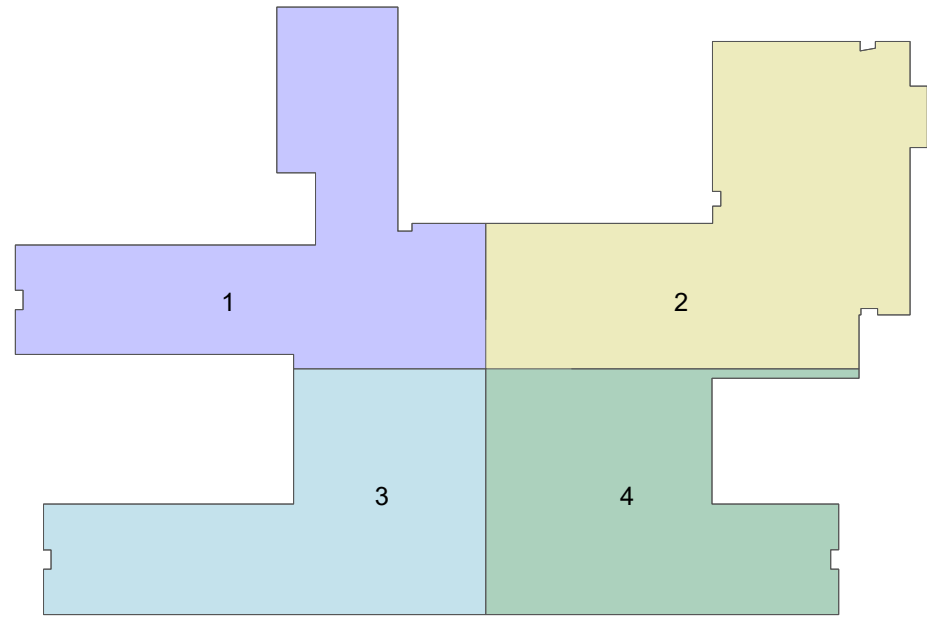
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FLOOR PLANS

A1.00

ARCHITECTURAL





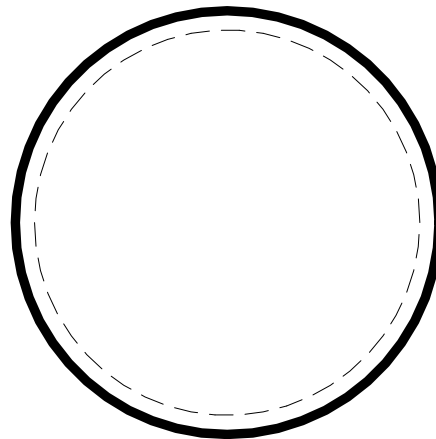
KEY PLAN - MASTER

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6. NOT USED.
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DESIGN PROFESSIONAL



PLAN REVIEWER

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BY JEP, CLP

DATE 02/17/2021

SET CLIENT REVIEW



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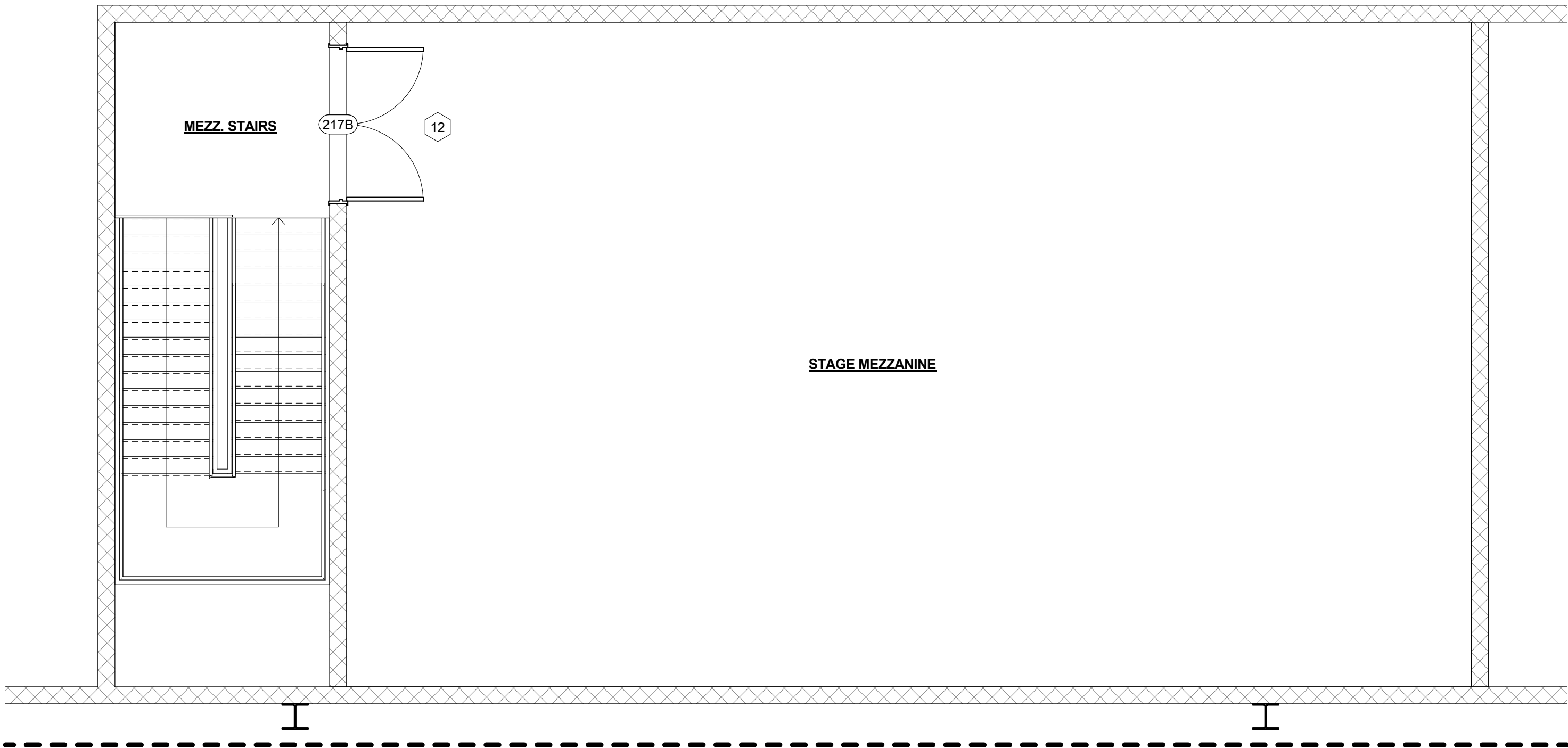
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FLOOR PLANS

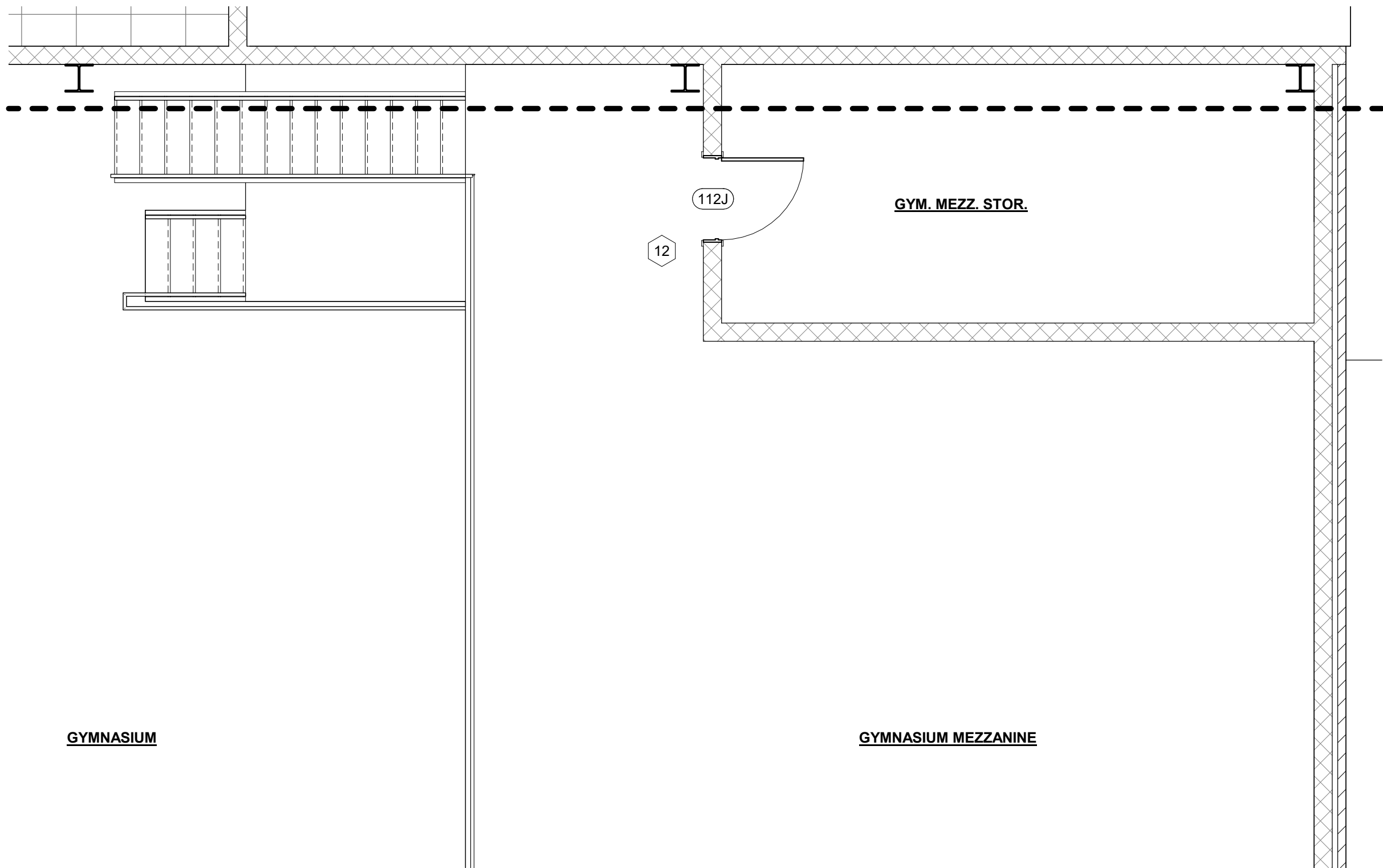
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ARCHITECTURAL



2 FLOOR PLAN - STAGE MEZZANINE

1/4" = 1'-0"



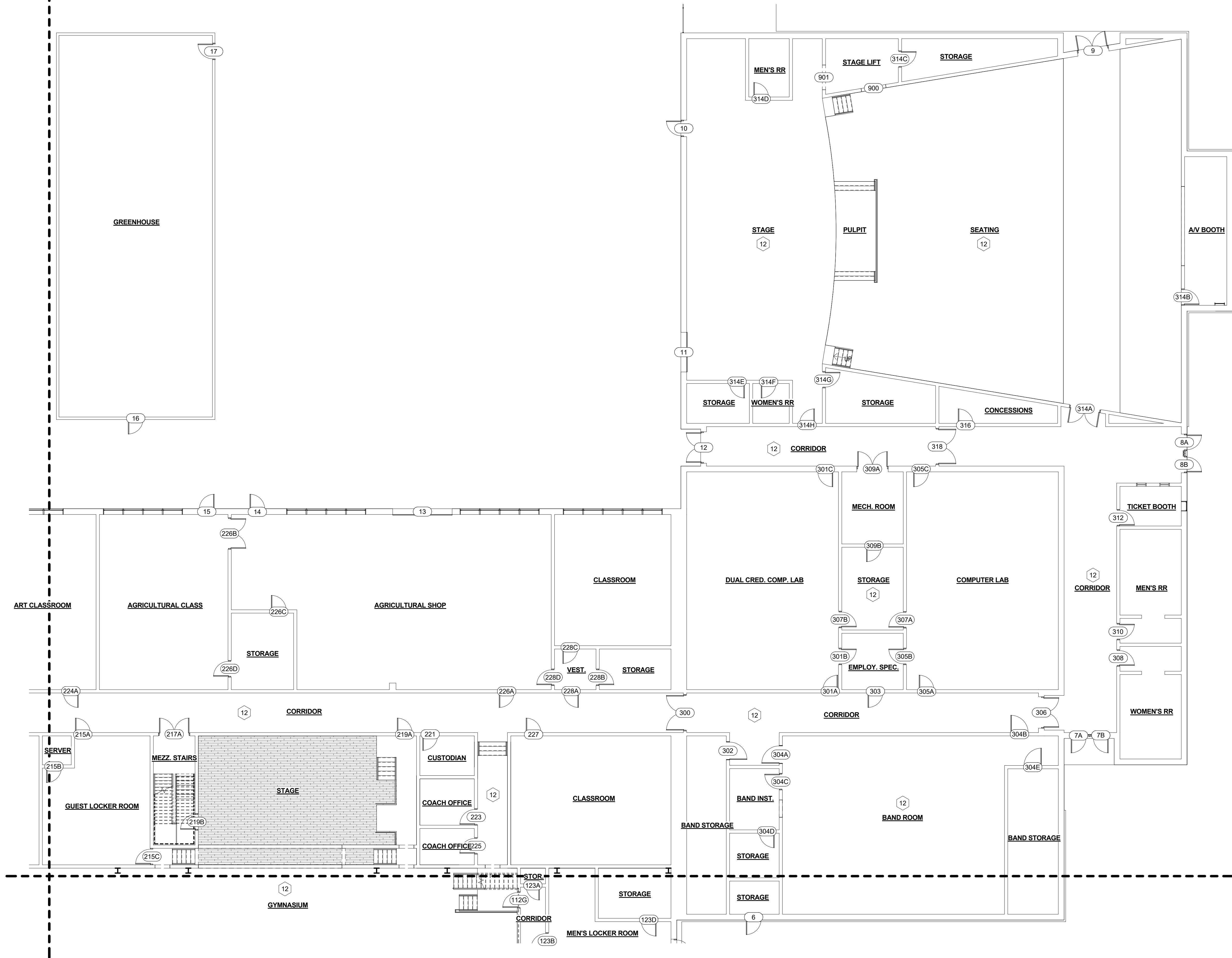
1 FLOOR PLAN - GYM MEZZANINE

1/4" = 1'-0"



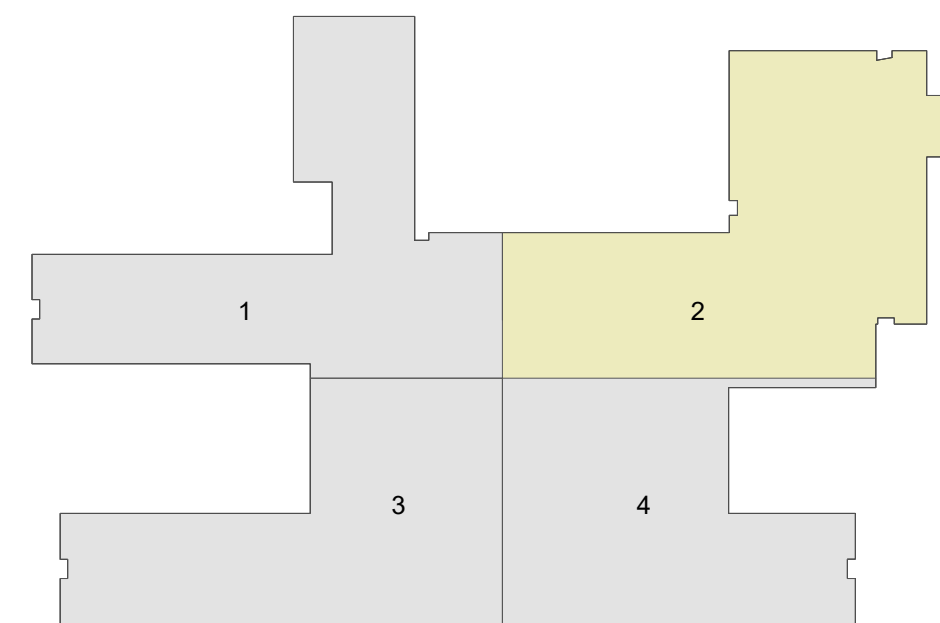




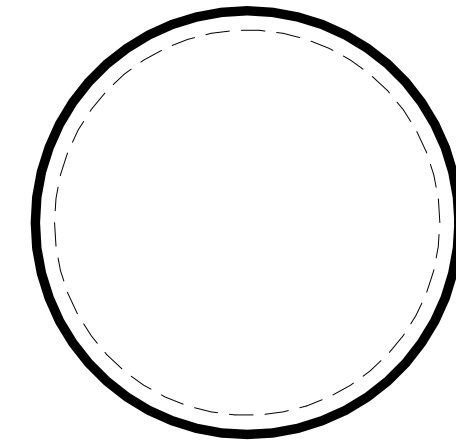


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DESIGN PROFESSIONAL



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BY JEP, CLP  
DATE 02/17/2021  
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ENLARGED PLAN -  
QUADRANT 2

A1.20

ARCHITECTURAL

1 ENLARGED PLAN - QUADRANT 2

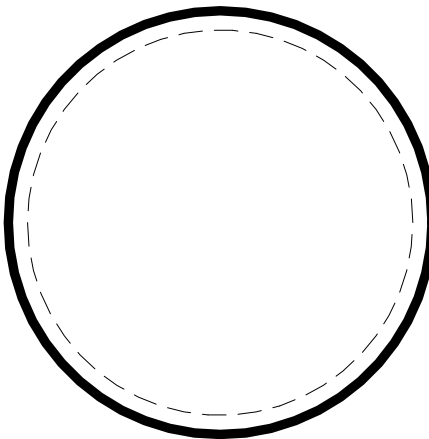
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KEY PLAN - QUADRANT 2





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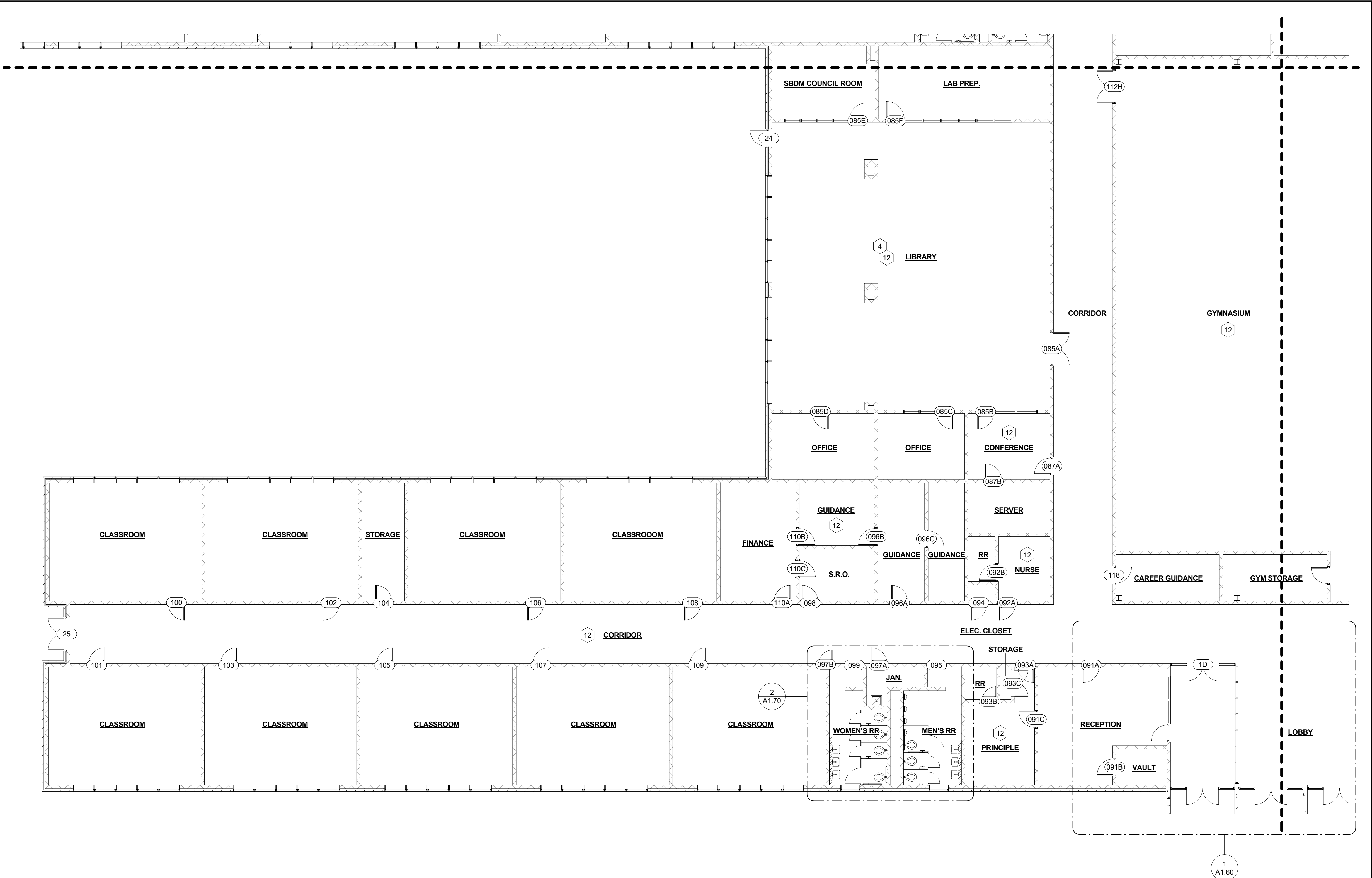
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ENLARGED PLAN -  
QUADRANT 3

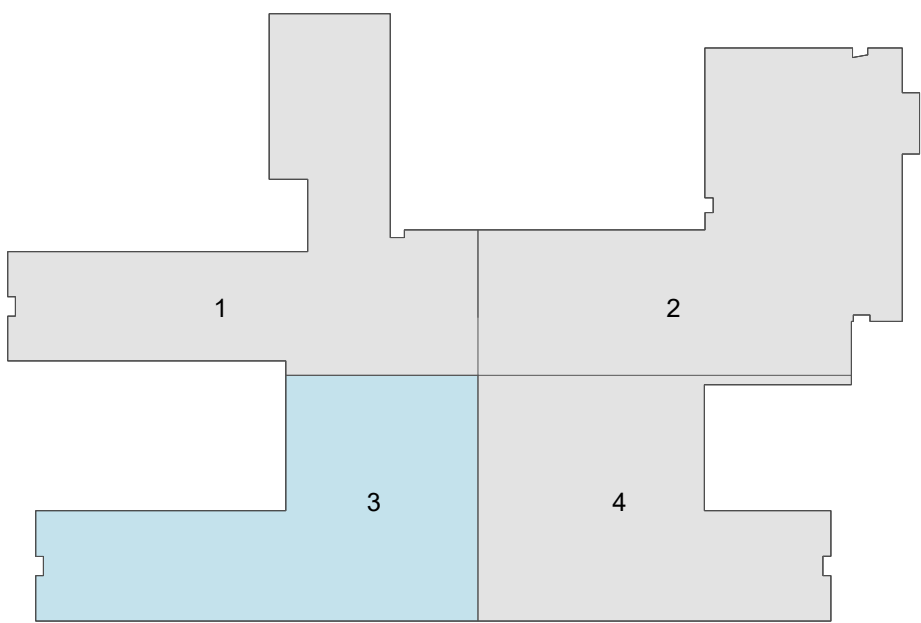
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ARCHITECTURAL



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1 ENLARGED PLAN - QUADRANT 3

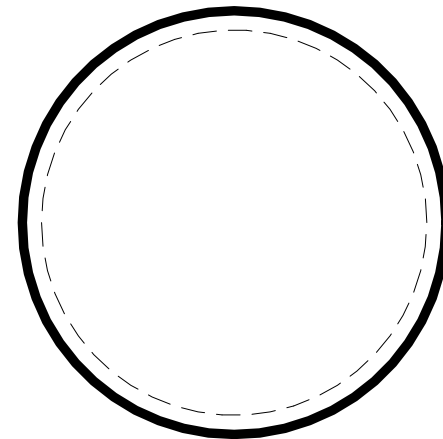
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KEY PLAN - QUADRANT 3





DESIGN PROFESSIONAL



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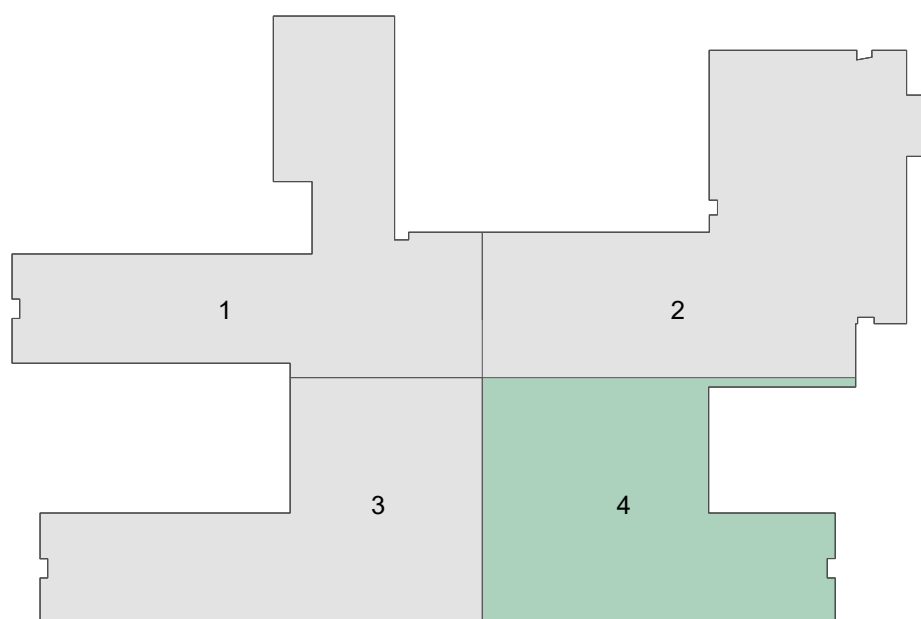
ENLARGED PLAN -  
QUADRANT 4

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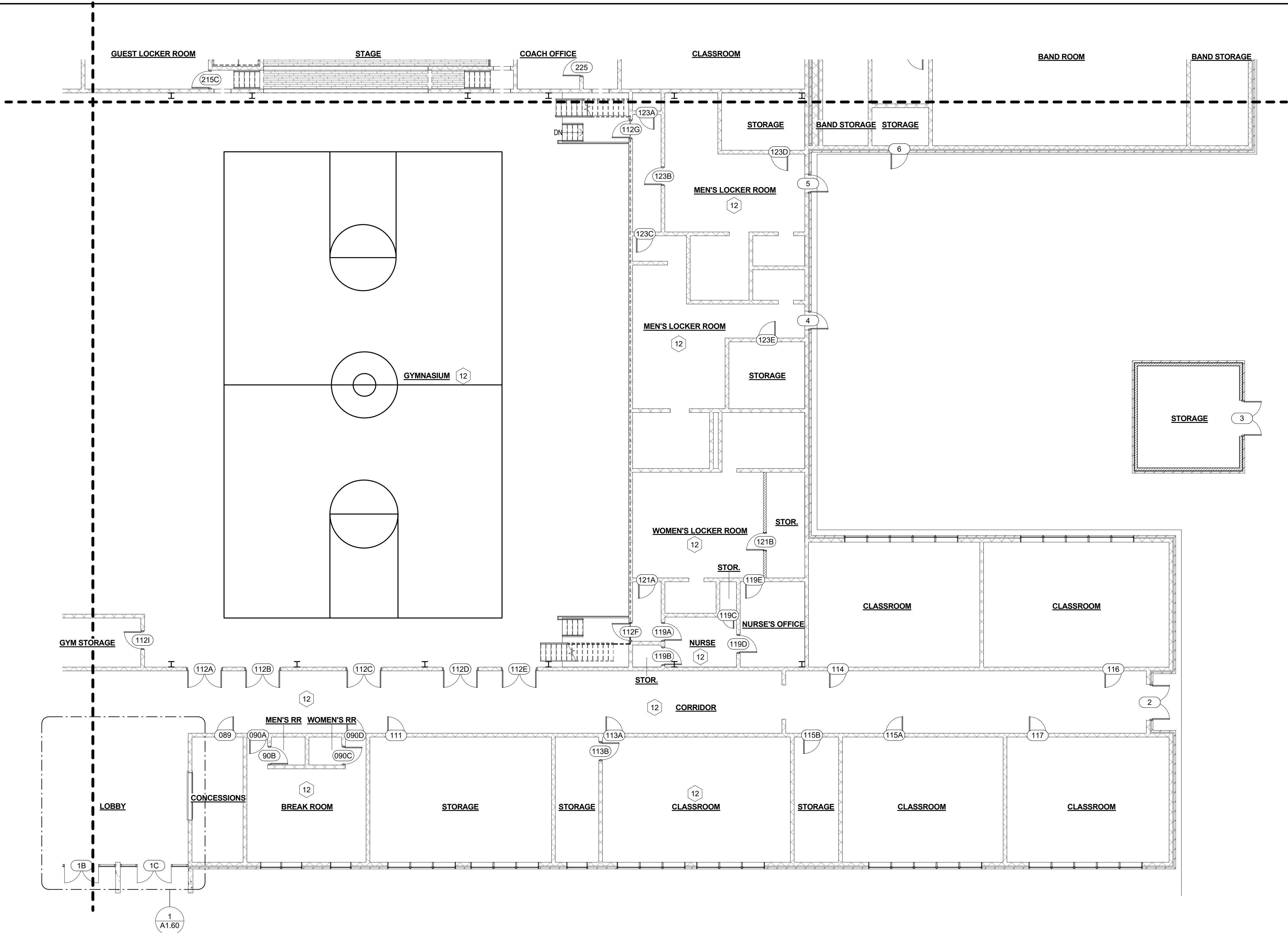
ARCHITECTURAL

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KEY PLAN - QUADRANT 4



1 ENLARGED PLAN - QUADRANT 4  
1" = 10'-0"

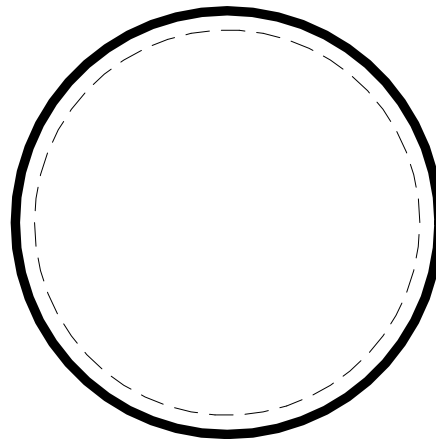


SHEET NOTES

1. NEW RESTROOM PARTITIONS PER SPECIFICATION SECTION 10 21 13.13 - METAL RESTROOM PARTITIONS TO REPLACE (E) PARTITIONS IN PLACE. ENSURE ADA COMPLIANT CLEARANCES ARE MET WHERE REQUIRED.
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DESIGN PROFESSIONAL



PLAN REVIEWER

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BY JEP, CLP

DATE 02/17/2021

SET CLIENT REVIEW



| REVISION | DESCRIPTION                   |
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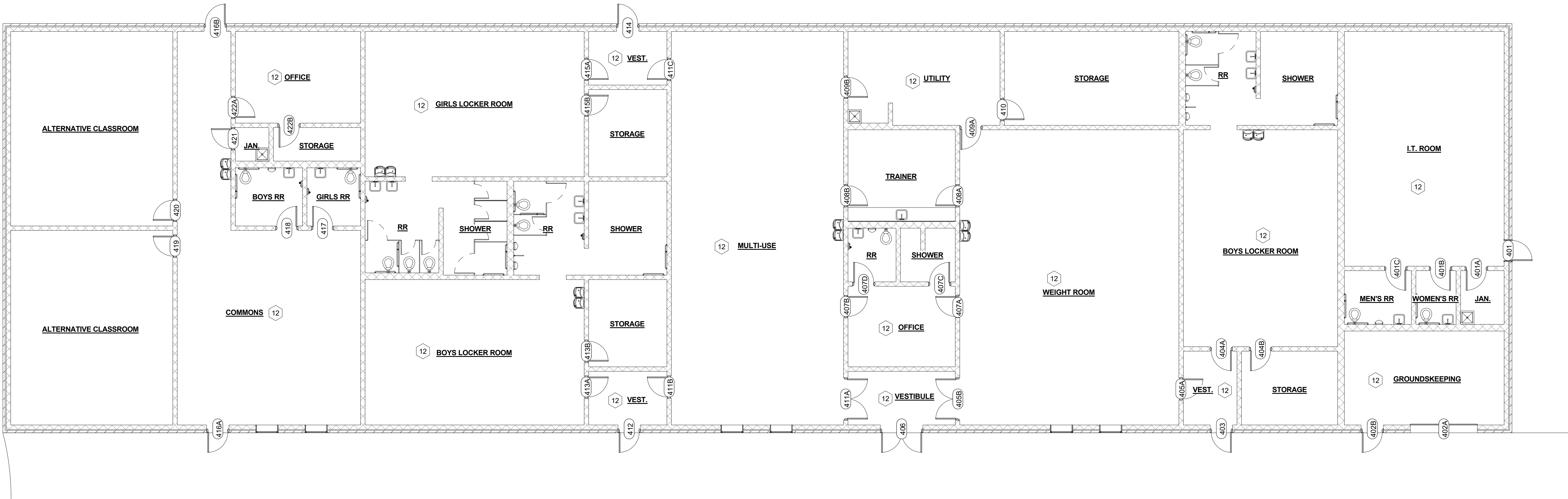
TODD COUNTY  
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FLOOR PLAN - ANNEX

A1.50

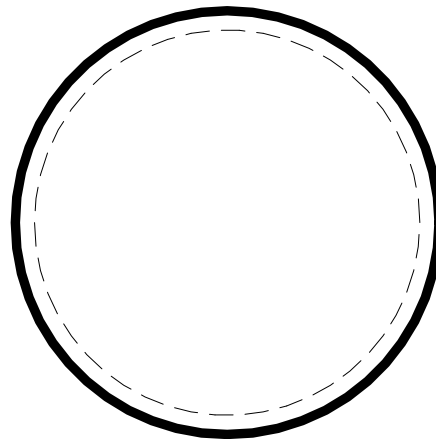
ARCHITECTURAL







DESIGN PROFESSIONAL



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|      |               |
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| BY   | JEP, CLP      |
| DATE | 02/17/2021    |
| SET  | CLIENT REVIEW |



| REVISION | DESCRIPTION                   |
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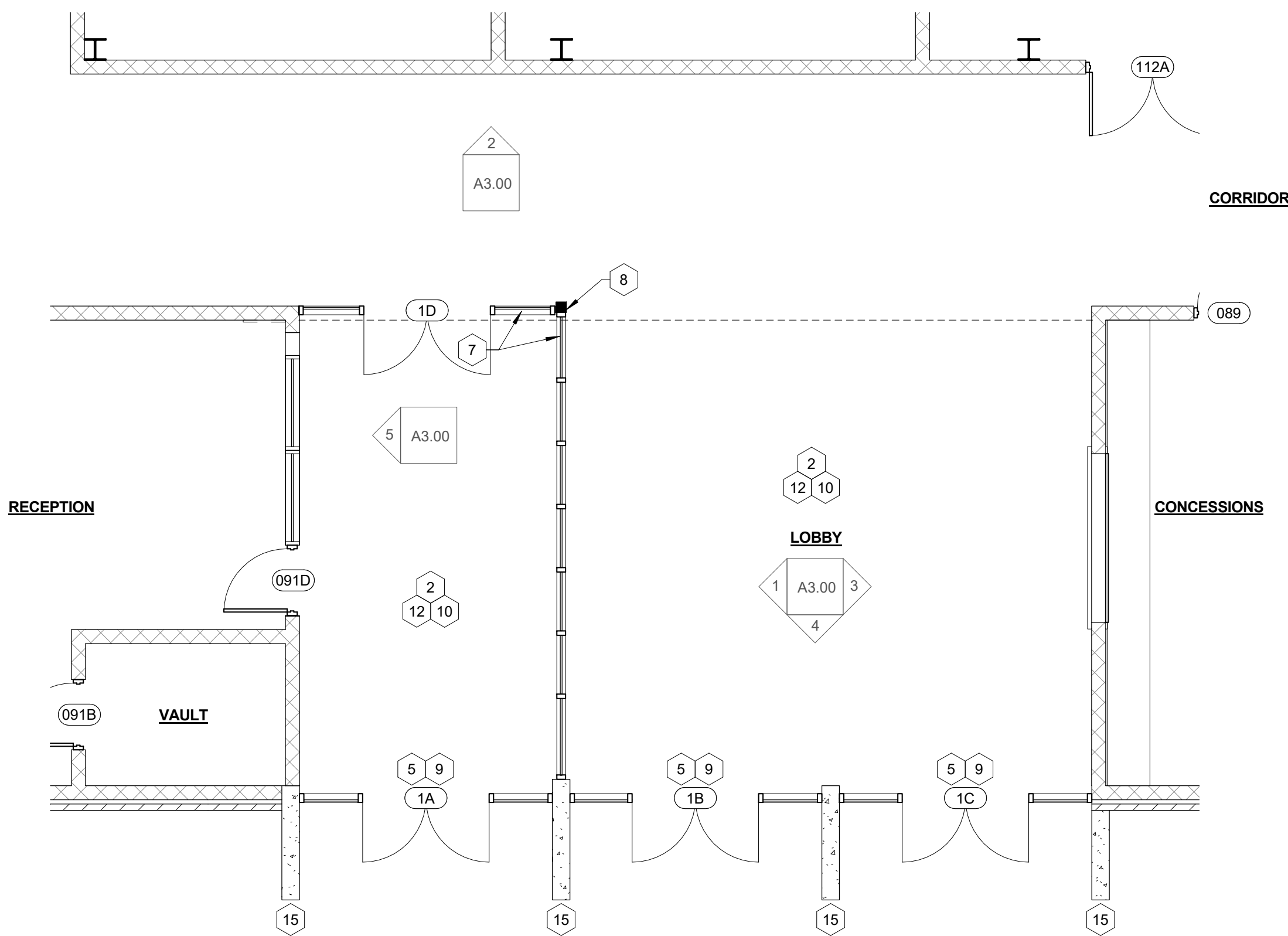
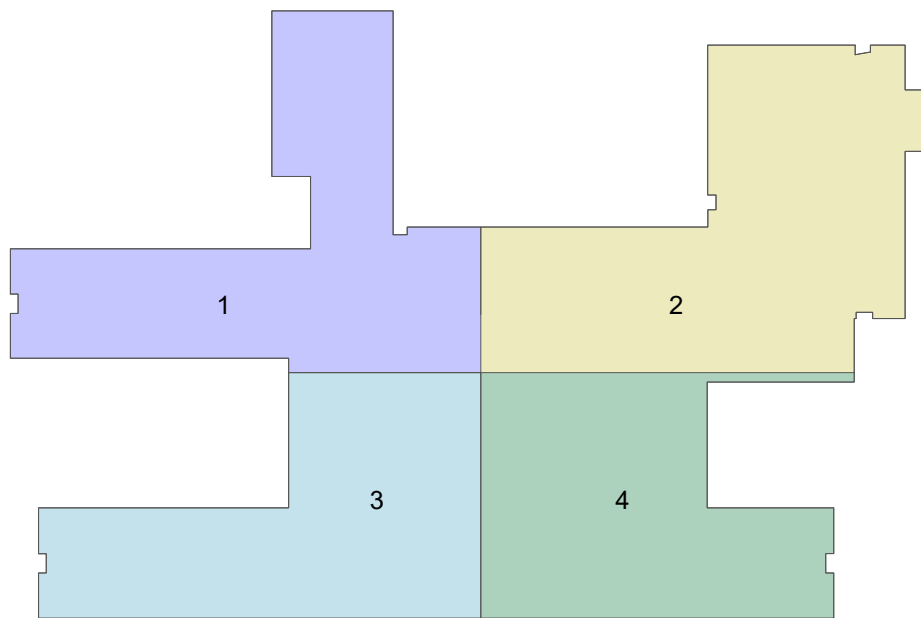
ENLARGED PLAN -  
LOBBY

A1.60

ARCHITECTURAL

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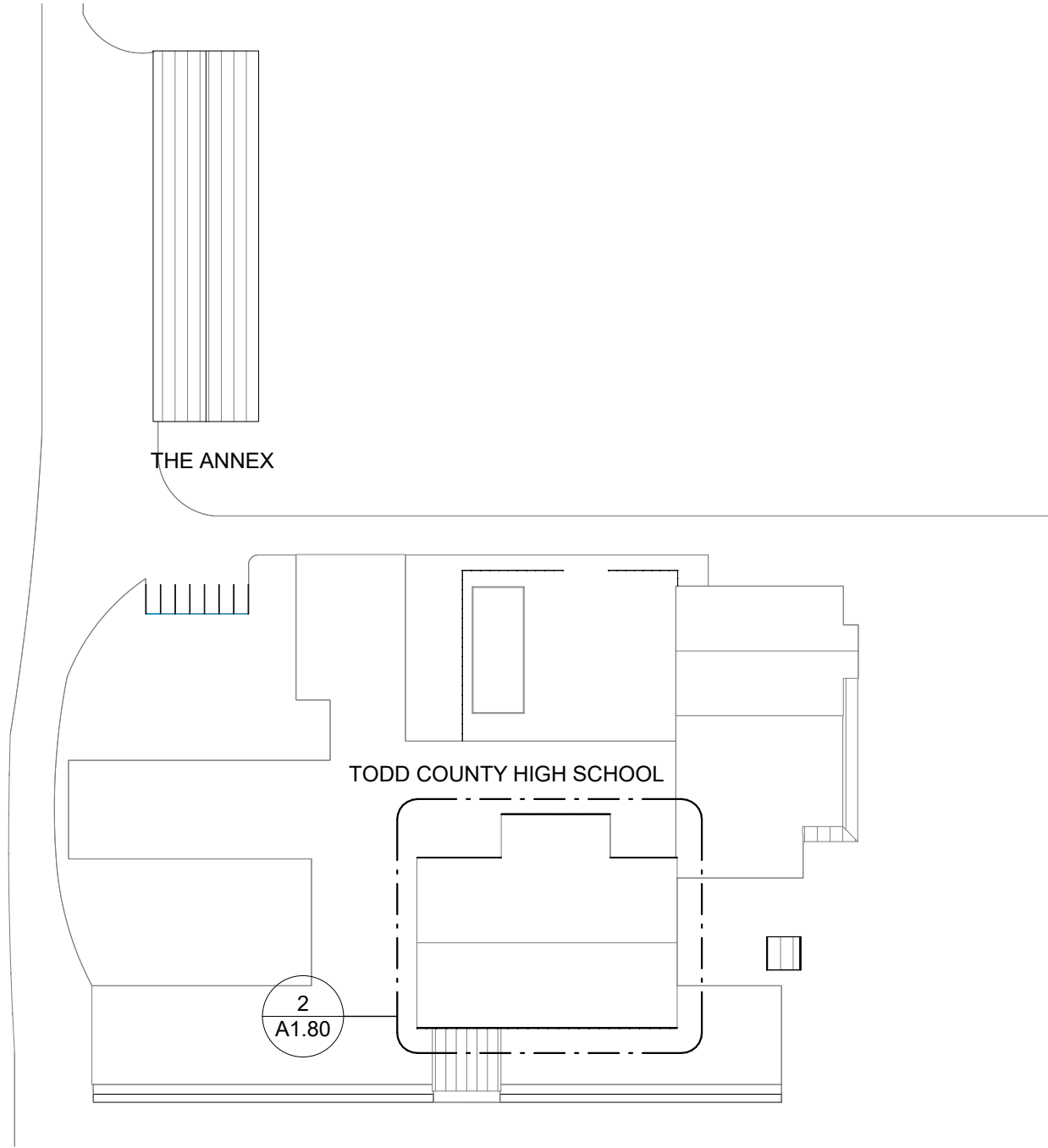
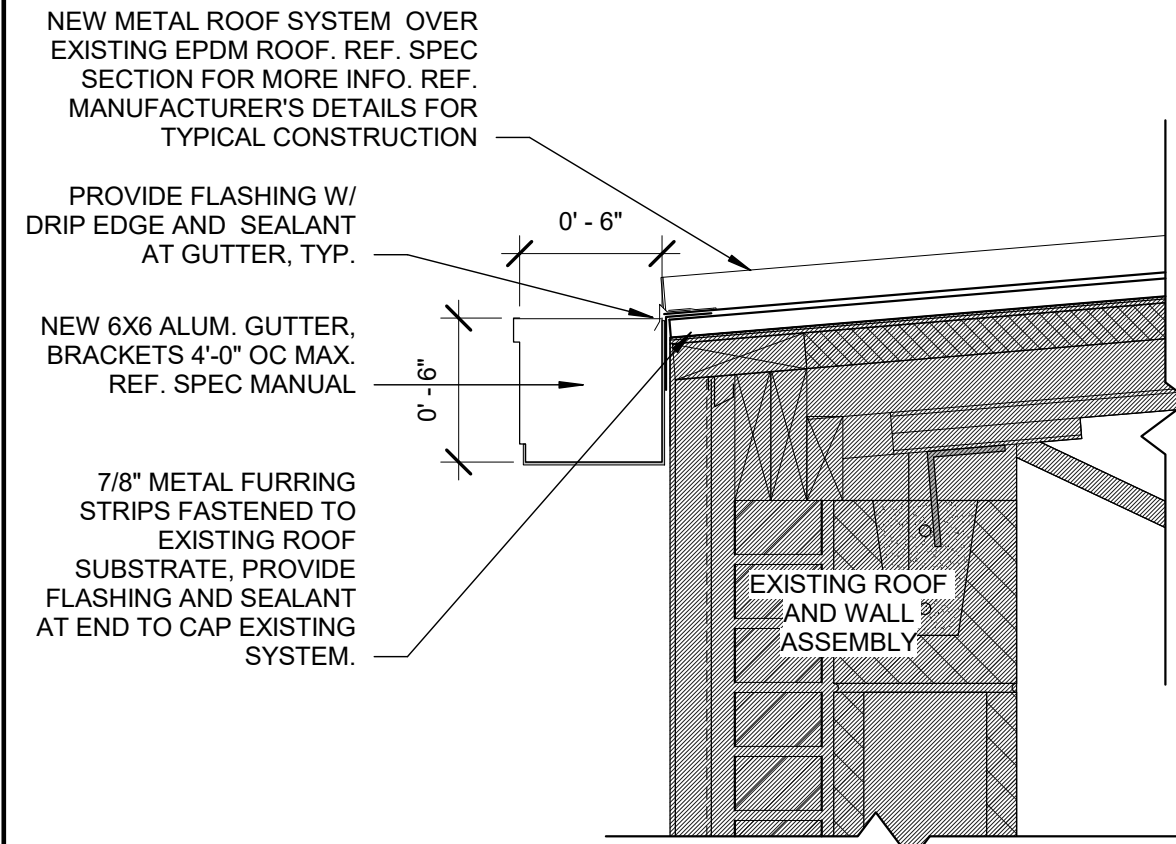
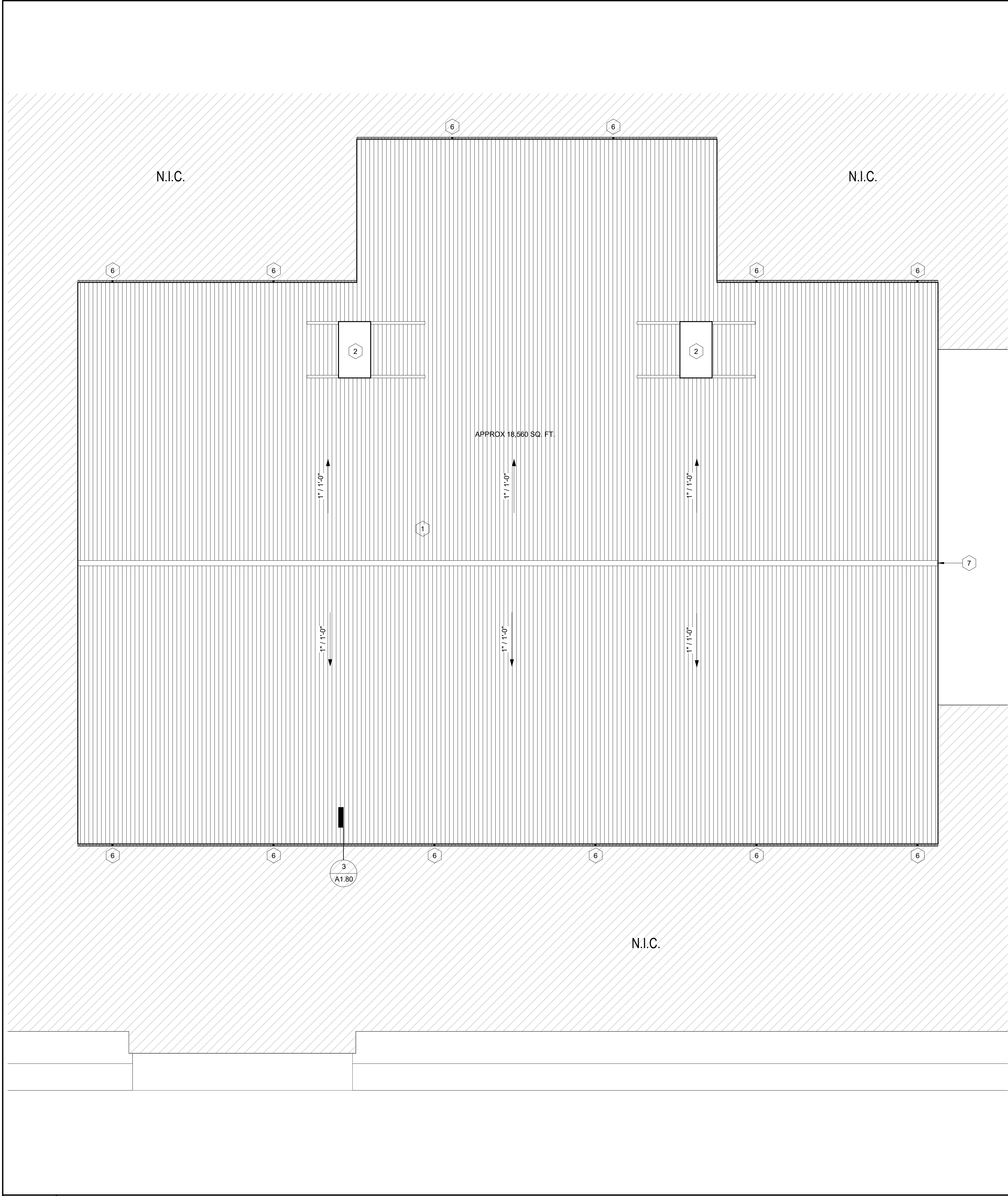
1 ENLARGED PLAN - LOBBY/RECEPTION  
3/16" = 1'-0"

KEY PLAN - MASTER









ROOF NOTES

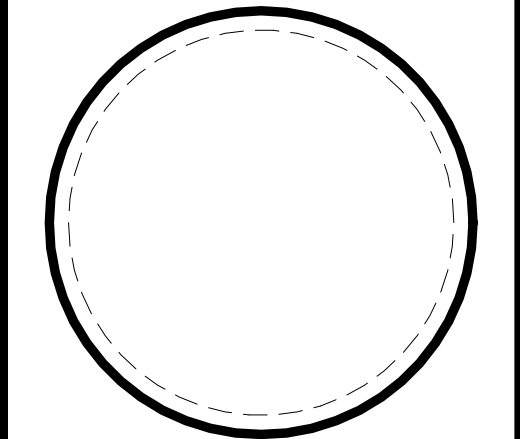
1. REPLACE (E) ROOF WITH NEW METAL ROOF SYSTEM REF. SPECIFICATION SECTION 07 41 13 - METAL ROOF PANELS FOR MORE INFORMATION. REF. SPECIFICATION SECTION 07 01 50.19 - PREPARATION FOR RE-ROOFING FOR DEMO REQUIREMENTS OF EXISTING ROOFING MEMBRANE. REFERENCE FINAL MANUFACTURER'S STANDARD DETAILS FOR TYPICAL SECTIONS.
2. (E) RTU AND SUPPORTING STRUCTURE. REFERENCE MECHANICAL SERIES FOR MORE INFORMATION.
3. (E) ROOF CURB TO REMAIN. LAP NEW EPDM ROOF OVER CURB AND CAP/FLASH.
4. PROVIDE GUTTER AND/OR DOWNSPOUTS PER CALCULATIONS ON THIS SHEET.
5. (E) INTERNAL DOWNSPOUTS TO REMAIN. ENSURE PROPER FLASHING/LAPPING WHEN INSTALLING NEW ROOFING SYSTEM.
6. DOWNSPOUT LOCATION. REFERENCE GUTTER AND DOWNSPOUT DATA FOR REQUIREMENTS. ENSURE FINAL PLACEMENT OF DOWNSPOUTS DO NOT INTERFERE WITH ANY WALL-MOUNTED SIGNAGE OR DEVICES.
7. METAL ROOF CAP PER MANUFACTURER'S REQUIREMENTS. REF. MANUFACTURER'S STANDARD DETAILS FOR REQUIREMENTS.

|                                    |                      |
|------------------------------------|----------------------|
| RAINFALL BASED ON MAJOR CITY.....  | LOUISVILLE, KENTUCKY |
| RAINFALL INTENSITY (10 YEAR).....  | 6.9 IN./HR.          |
| RAINFALL INTENSITY (100 YEAR)..... | 9.4 IN./HR.          |
| DRAINABLE AREA (10 YEAR).....      | 170 SQ. FT.          |
| DRAINABLE AREA (100 YEAR).....     | 130 SQ. FT.          |
| STORM REQUIREMENT.....             | 10 YEAR STORM        |

|                                  |                       |
|----------------------------------|-----------------------|
| GYM ROOF PLAN WIDTH.....         | 132'-0"               |
| GYM ROOF PLAN LENGTH.....        | 160'-0"               |
| GYM PLAN AREA.....               | 18,560'-0"            |
| ROOF SLOPE.....                  | 1" : 12"(FV EXISTING) |
| TOTAL GUTTER LENGTH.....         | 320'-0"               |
| GUTTER LENGTH PER DOWNSPOUT..... | 30'-0"                |
| DOWNSPOUT TYPE.....              | PLAIN RECTANGULAR     |
| MINIMUM GUTTER WIDTH.....        | 6"                    |
| MINIMUM GUTTER DEPTH.....        | 6"                    |
| MINIMUM DOWNSPOUT SIZE.....      | 3.75" X 4.75"         |



DESIGN PROFESSIONAL



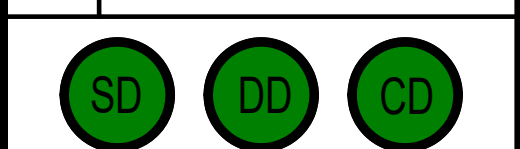
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BY JEP, CLP

DATE 02/17/2021

SET CLIENT REVIEW



REVISION DESCRIPTION

X DDMMYYYY REVISION DESCRIPTION

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TODD COUNTY  
CENTRAL HIGH SCHOOL  
RENOVATION 2021

806 SOUTH MAIN ST.  
ELKTON, KENTUCKY 42220  
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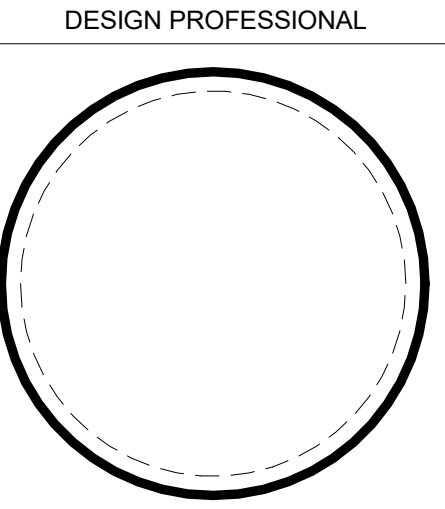
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ROOF PLANS

A1.80

ARCHITECTURAL





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[illegible]

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**RENOVATION 2021**

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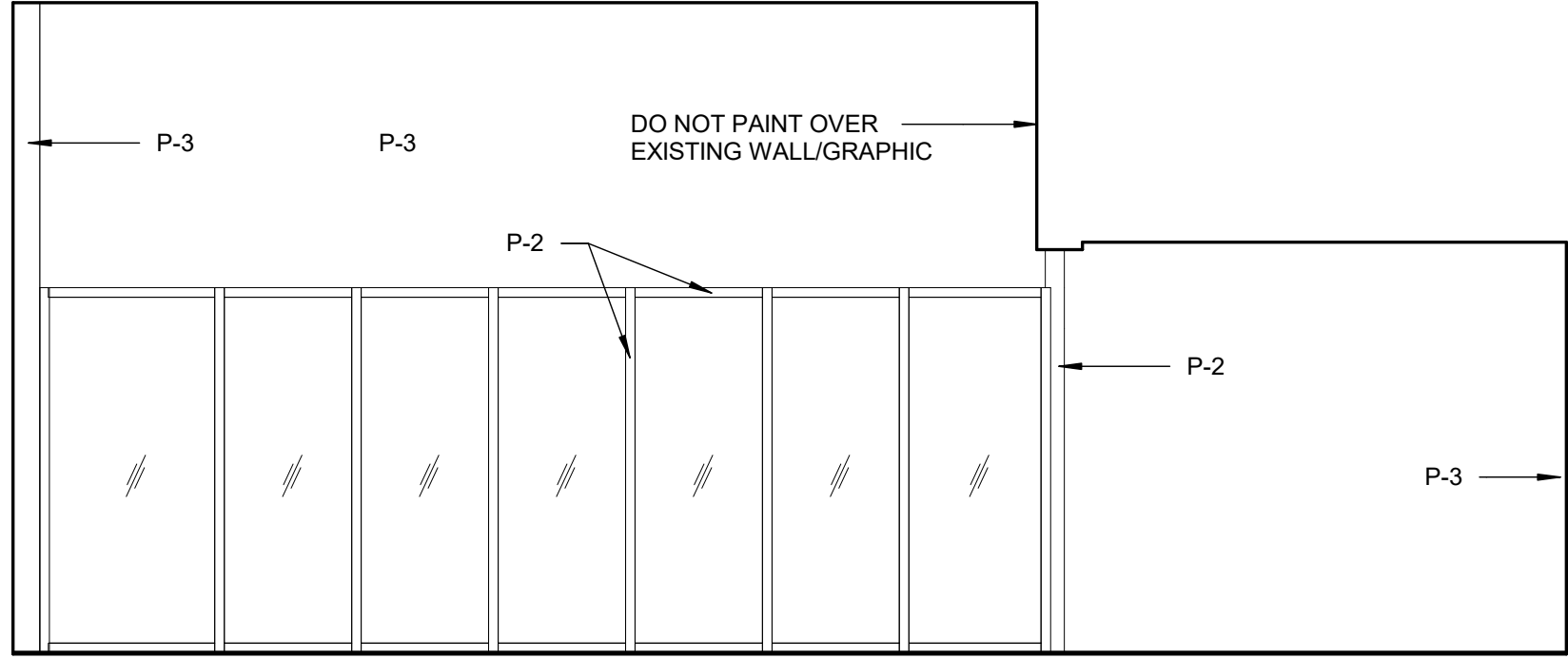
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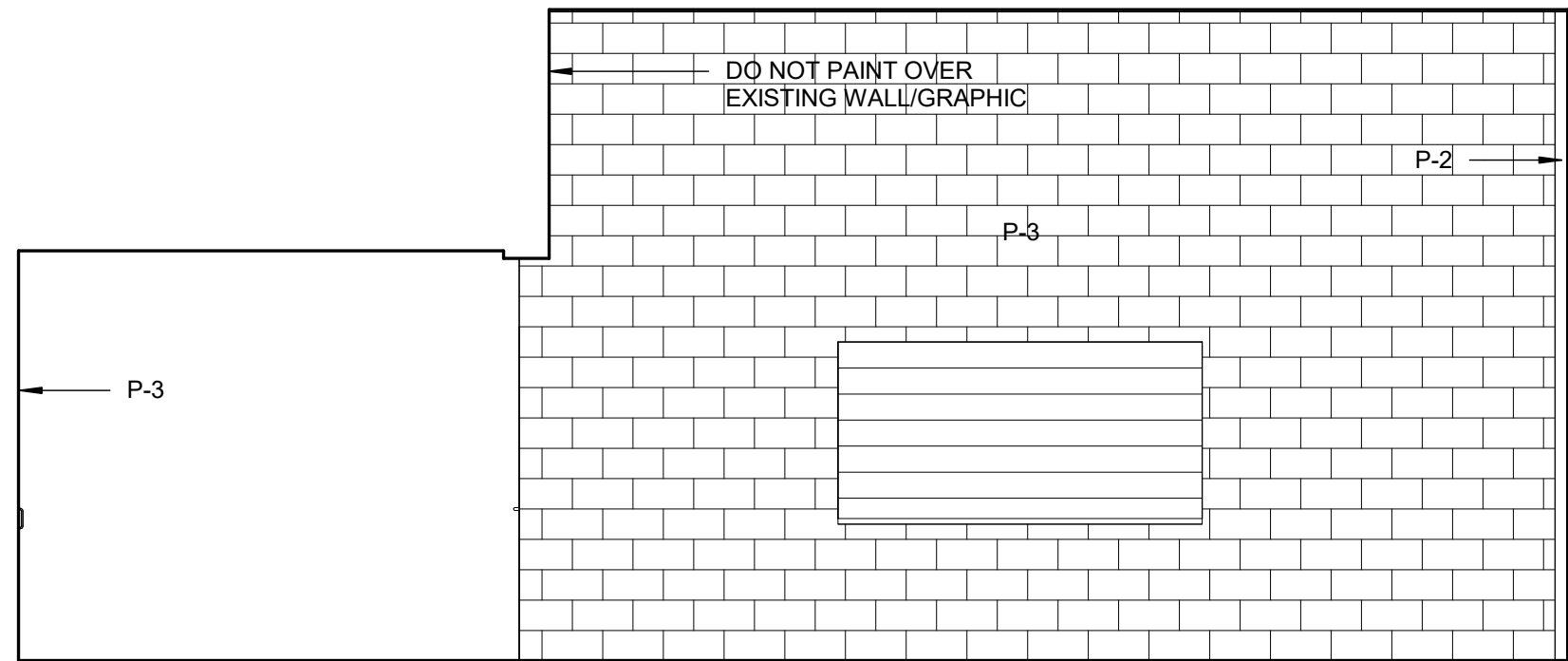
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A3.00

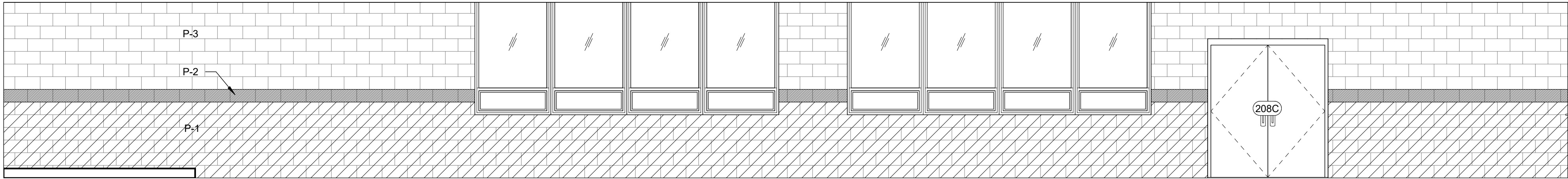
ARCHITECTURAL



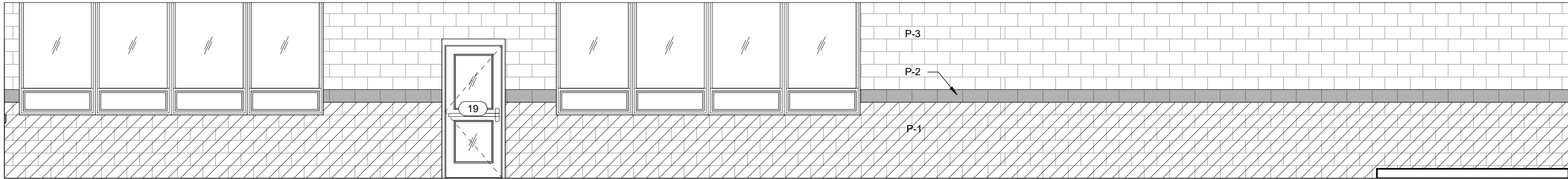
**1** INTERIOR ELEVATION - LOBBY WEST  
1/4" = 1'-0"



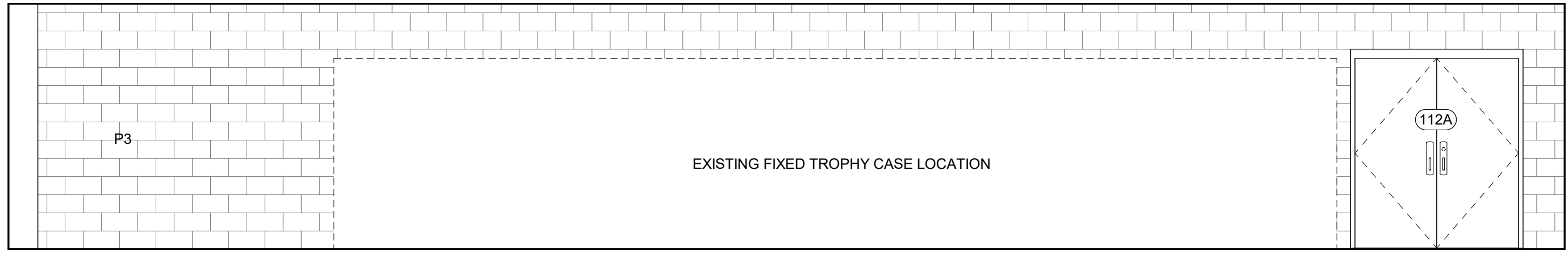
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| 3 | <b>INTERIOR ELEVATION - LOBBY EAST</b><br>1/4" = 1'-0" |
|---|--|



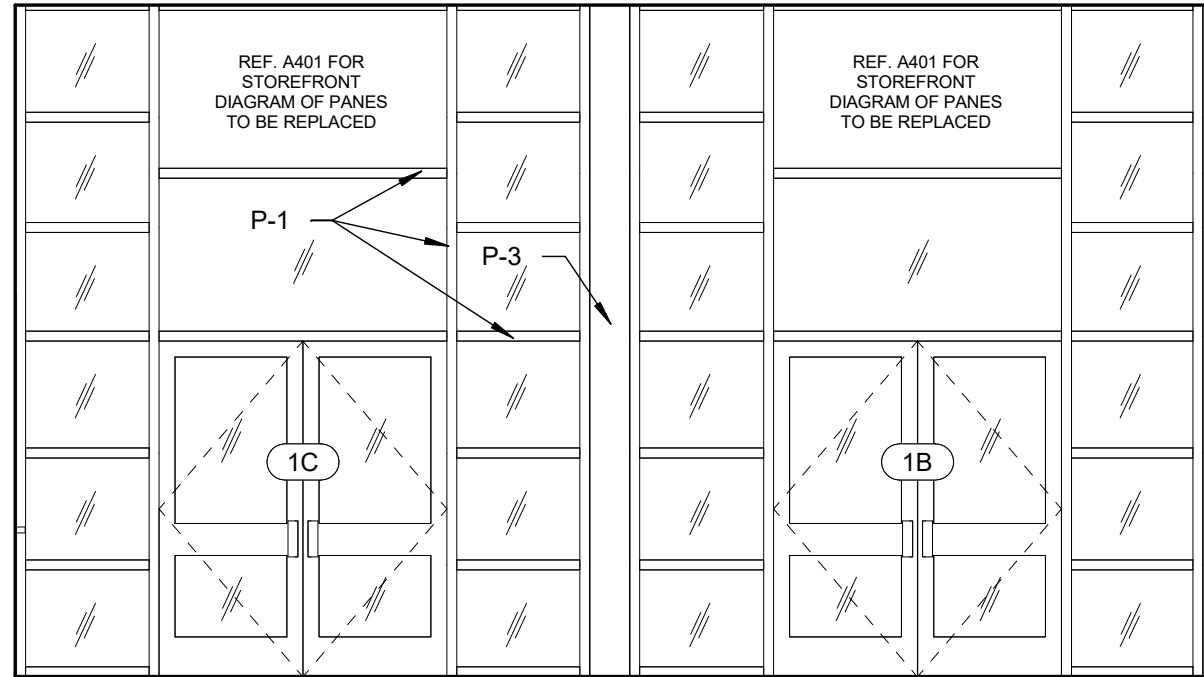
**6** | **INTERIOR ELEVATION - CAFETERIA WEST**  
1/4" = 1'-0"



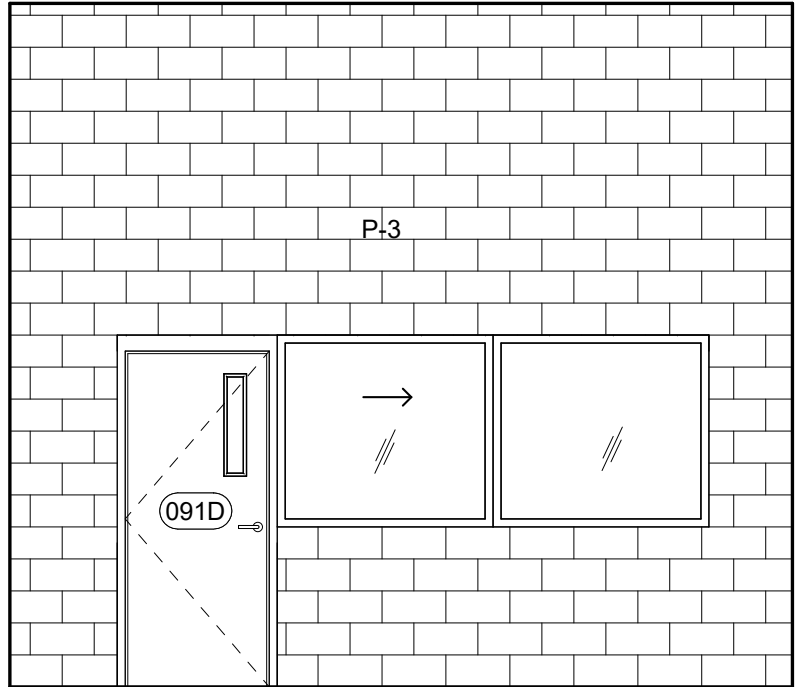
**8** | **INTERIOR ELEVATION - CAFETERIA EAST**  
1/4" = 1'-0"



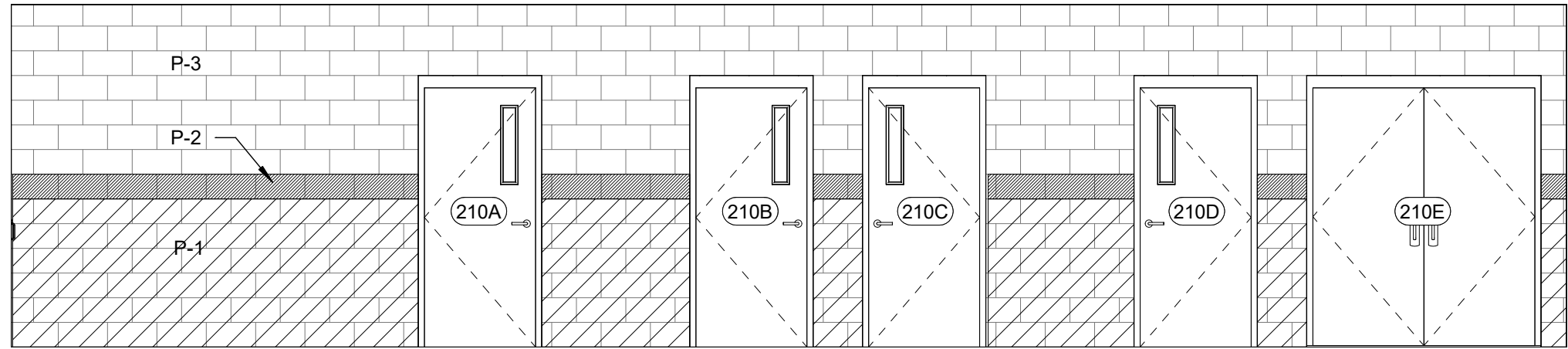
**2** | **INTERIOR ELEVATION - LOBBY NORTH**  
1/4" = 1'-0"



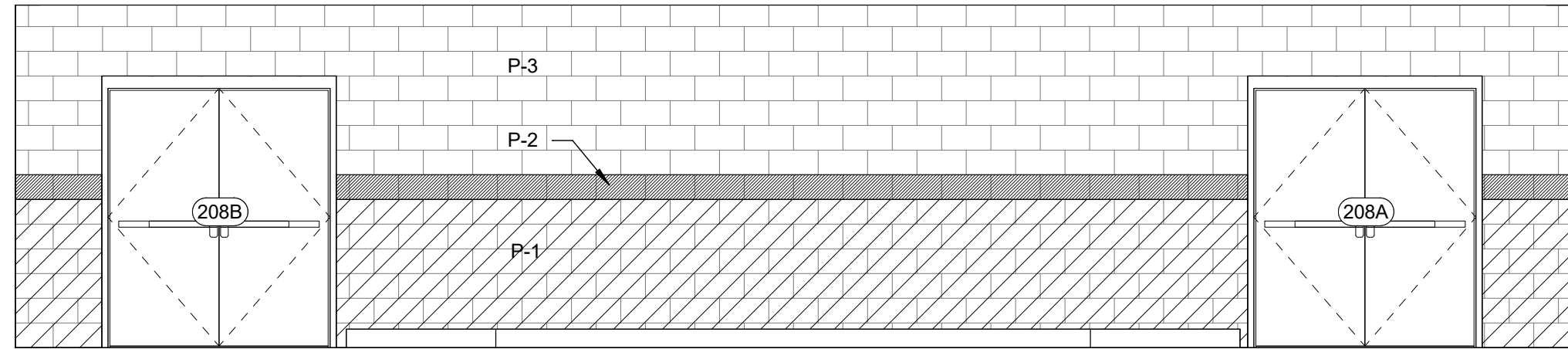
**4** **INTERIOR ELEVATION - LOBBY SOUTH**  
1/4" = 1'-0"



|   |  |
|---|--|
| 5 | <b>INTERIOR ELEVATION - CHECK IN</b><br>$1/4" = 1'-0"$ |
|---|--|

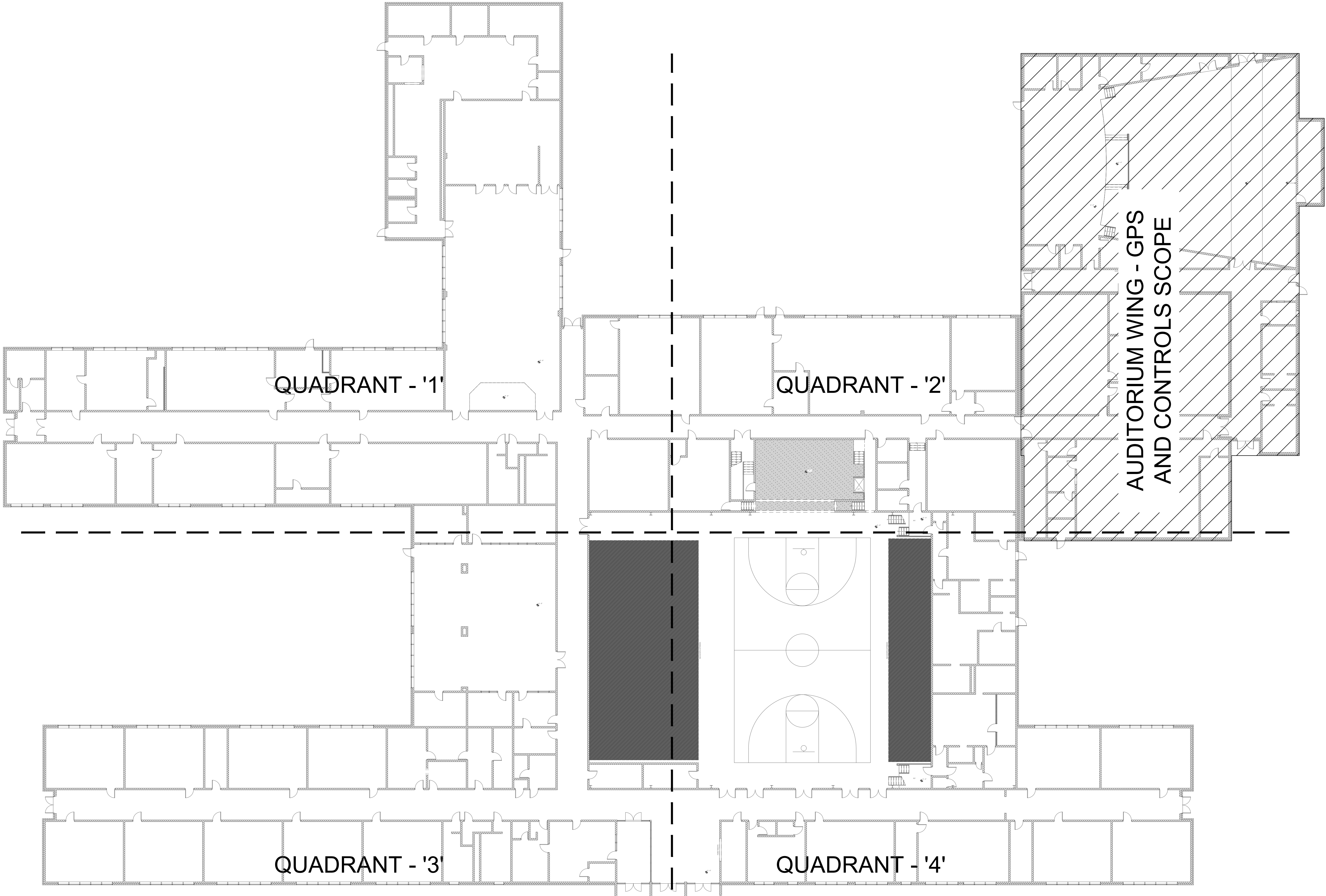


**7** | **INTERIOR ELEVATION - CAFETERIA NORTH**  
1/4" = 1'-0"

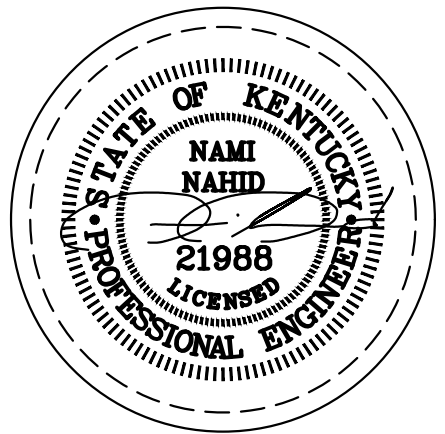
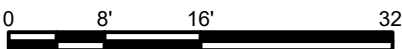


|   |   |
|---|---|
| 9 | <b>INTERIOR ELEVATION - CAFETERIA SOUTH</b><br>$1/4" = 1'-0"$ |
|---|---|





1 OVERALL MECHANICAL - FLOOR PLAN  
SCALE: 1/16"=1'-0"



DESIGN PROFESSIONAL

**SKY ENGINEERING**  
MECHANICAL - ELECTRICAL - PLUMBING  
"DO JUSTLY, LOVE MERCY AND WALK HUMBL Y"  
1801 EAST GREEN AVE., SUITE 103  
BOWLING GREEN, KY 42304  
270-399-9182

PLAN REVIEWER

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|------|------------------------|
| BY   | ACE                    |
| DATE | 02/18/2021             |
| SET  | CONSTRUCTION DOCUMENTS |

| REVISION  | DESCRIPTION          |
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| DDMM/YYYY | REVISION DESCRIPTION |
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Someriset, Kentucky  
(606)687 - 9233  
www.decoarchitects.co  
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MECHANICAL  
OVERALL PLAN

**M0.01**

MECHANICAL



| GPS UNIT SCHEDULE (BIPOLAR IONIZATION) |             |                        |                 |
|--|-------------|------------------------|-----------------|
| EQUIPMENT UNIT TYPE                    | GPS MODEL   | RATED                  | WEIGHT (LBS)    |
| 3X3 CASSETTE                           | GPS-FC      | 1,200 CFM NOMINAL      | 0.25 LBS        |
| 2X2 CASSETTE                           | GSP-FC      | 1,200 CFM NOMINAL      | 0.25 LBS        |
| CONCEALED DUCTED                       | GPS-FC      | 1,200 CFM NOMINAL      | 0.25 LBS        |
| CONCEALED DUCTED                       | GPS-FC      | 1,200 CFM NOMINAL      | 0.25 LBS        |
| WALL MOUNTED                           | GPS-IRIB-36 | COILS UP TO 48" LONG   | 0.5 LBS         |
| PACKAGE ROOFTOP UNITS                  | GPS-IMOD    | 0-4800 CFM (1-12 TON)  | 0.24 LBS PER 6" |
| FAN COIL UNITS                         | GPS-FC-3    | UP TO 3200 CFM (8 TON) | 0.23 LBS        |

- NOTES:
1. ALL NEW INDOOR UNITS TO INCLUDE A GPS AIR PURIFICATION, AS PER SCHEDULE
  2. GPS UNIT SHALL ACTIVATE WHEN INDOOR UNIT IS OPERATING.
  3. MECHANICAL CONTRACTOR SHALL COORDINATE WITH MFR FOR COMPLETE INSTALL OF UNITS

**GPS AIR PURIFICATION ADDITION**

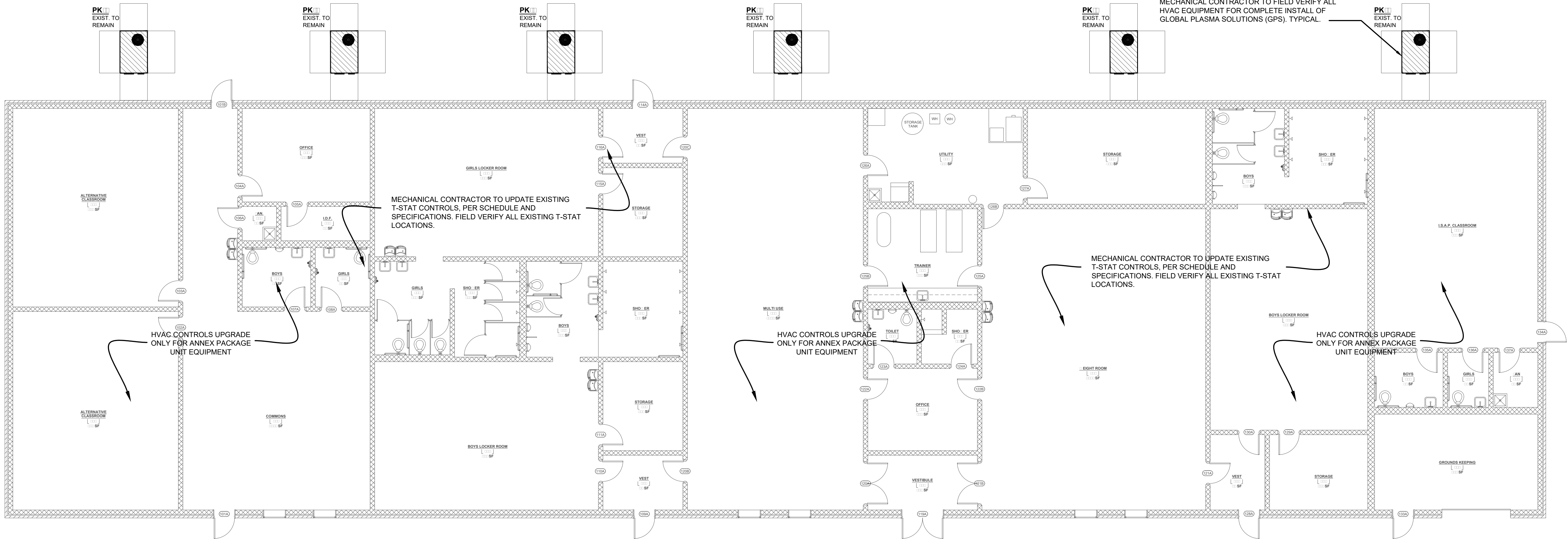
**HVAC Equipment:**  
INSTALL A NEW GPS AIR PURIFICATION UNIT FOR ALL EXISTING HVAC UNITS SERVING BUILDING.  
GPS UNIT POWER NEED SHALL BE TIED TO PACKAGE UNIT POWER SOURCE. PROVIDE ANY SPLITTER / TRANSFORMER NEEDED TO PROVIDE POWER TO THESE NEW DEVICES.  
FIELD VERIFY ALL SCHOOLS AND AIR EQUIPMENT UNITS FOR SIZE AND LOCATION. PROVIDE GPS DEVICES TO MATCH THE EQUIPMENT.  
PROVIDE A HAND HELD IONIZATION METERING DEVICE FOR EACH SCHOOL FOR CHECKING OF GPS EQUIPMENT ACTIVATION.

**HVAC CONTROLS UPGRADE - ANNEX BLDG.**

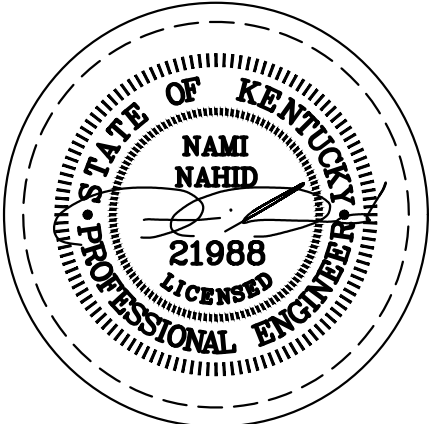
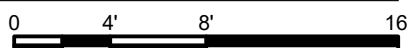
**Existing Control Demo:**  
Remove all existing unit controls with wall mounted thermostats. New thermostats to be installed in same location.  
Replace wiring if not compatible with new control system.

**Building Automation System:**  
New system shall be based on Reliable Controls, see spec for other acceptable manufacturers.

**Existing Ground Mounted RTUs:**  
All existing ground mounted RTUs to have new control board installed with new local thermostats.  
All system to tie back into main building campus controls.  
Provide protective cover for all new Reliable wall mounted thermostats.



1 OVERALL MECHANICAL - FLOOR PLAN ANNEX BUILDING  
SCALE: 1/8"=1'-0"



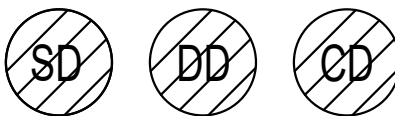
DESIGN PROFESSIONAL



PLAN REVIEWER

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BY ACE  
DATE 02/18/2021  
SET CONSTRUCTION DOCUMENTS



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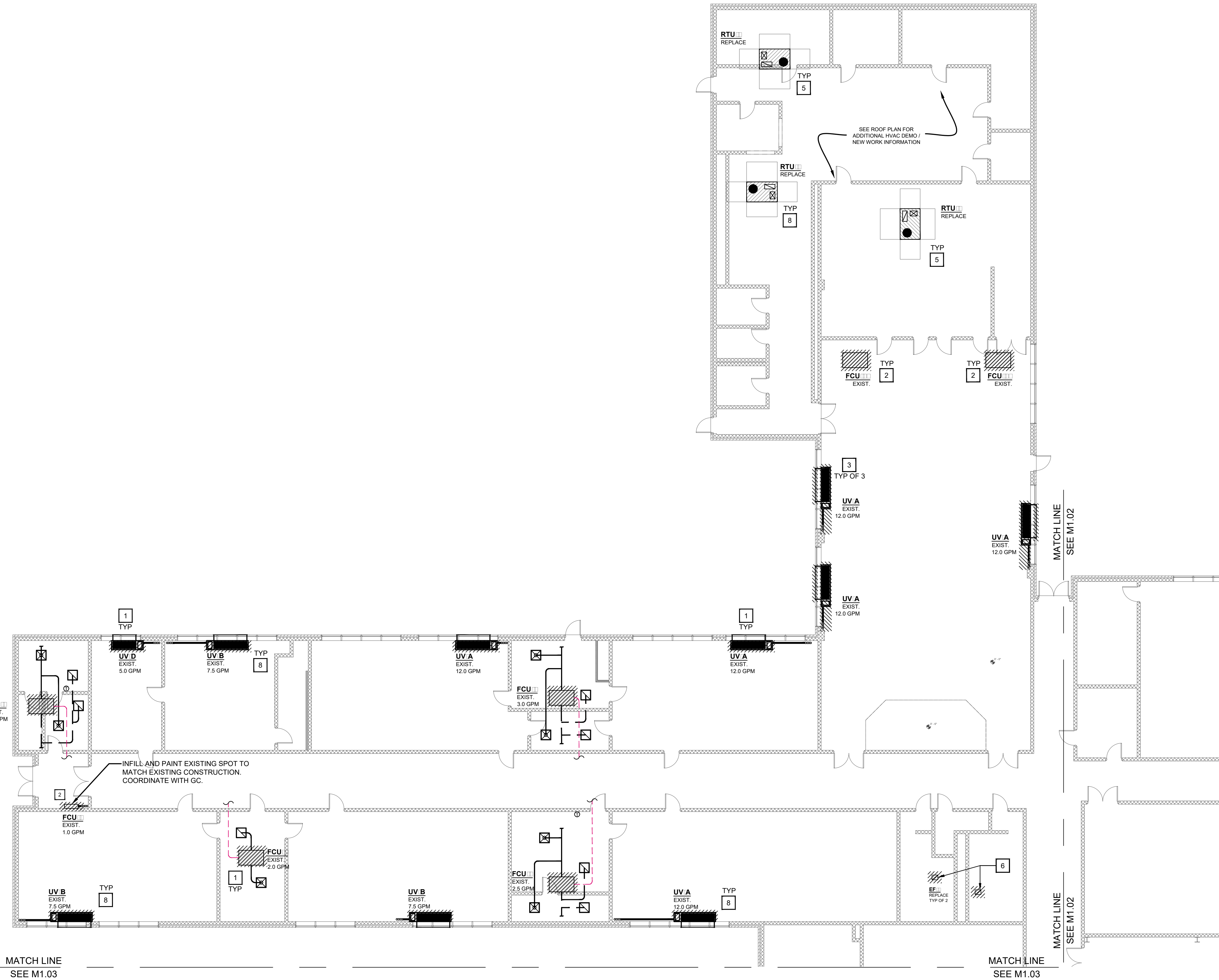
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MECHANICAL  
OVERALL PLAN  
ANNEX BUILDING

M0.02

MECHANICAL

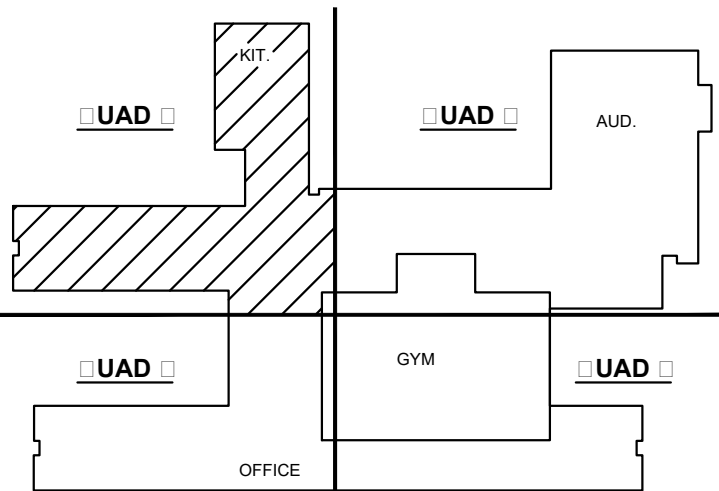




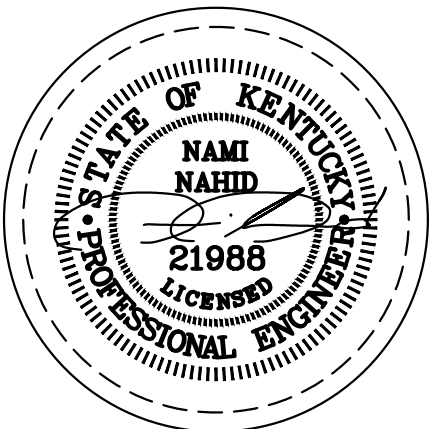
1 QUADRANT '1' - ENLARGED FLOOR PLAN  
SCALE: 3/32"=1'-0"

DEMO NOTES:

1. EXISTING UNIT VENTILATOR (UV) AND ABOVE CEILING DUCTED FAN COIL UNITS (FCU) TO BE REPLACED WITH NEW EQUIPMENT. RECONNECT TO EXISTING PIPING, DUCTWORK, POWER, CONDENSATE, ETC (TYPICAL). COORDINATE WITH ELECTRICAL AND MANUFACTURER, AS REQUIRED, FOR EQUIPMENT ORIENTATION. FIELD VERIFY ALL EXISTING 'UV' AND 'FCU' EQUIPMENT PLACEMENT. SEE SCHEDULE AND NEW PLAN FOR ADDITIONAL INFORMATION. EXISTING LOUVERS TO BE REMOVED, CLEANED, AND REINSTALLED (WATER TIGHT). PAINT EXISTING LOUVERS. ARCH TO VERIFY COLOR.
2. REMOVE EXISTING FAN COIL UNITS WITH ASSOCIATED PIPING, POWER, HANGERS, SUPPORTS, ETC. REWORK POWER, AS REQUIRED, FOR NEW EQUIPMENT, COORDINATE WITH ELECT. CAP ALL REMOVED PIPING BACK TO MAINS. TYPICAL. REMOVE ASSOCIATED DUCTWORK, AS REQUIRED, FOR NEW INSTALL OF EQUIPMENT. FIELD VERIFY EXISTING CONDITIONS.
3. REMOVE EXISTING UNIT VENTILATORS IN CAFETERIA, IN THEIR ENTIRETY, TO INCLUDE POWER, PIPING, PIPE CHASE, ETC. CAP ALL PIPING ABOVE CEILING. COORDINATE WITH ELECTRICAL, AS REQUIRED. PROVIDE AND INSTALL INSULATED METAL PANEL TO SEAL OPENING, ON INTERIOR. PAINT INTERIOR OF PANEL, AS REQUIRED, FOR NEW CAFETERIA.
4. DISCONNECT AND REMOVE EXISTING CEILING DEVICES FROM GRID. CAP DUCTWORK, AS REQUIRED. ALL EXISTING DUCTWORK TO BE FIELD VERIFIED. REMOVE EXISTING DUCTWORK (AS NEEDED) FOR NEW INSTALL OF BOTH VRV EQUIPMENT AND OUTSIDE AIR DUCT FOR LIBRARY AND ADJACENT OFFICE SPACE. SEE NEW PLAN.
5. REPLACE EXISTING ROOFTOP UNIT WITH NEW. SEE SCHEDULE AND ROOF PLAN. RECONNECT POWER, DUCTWORK, ETC. PROVIDE TRANSITION TO EXISTING DUCT, AS REQUIRED (FIELD VERIFY DUCT SIZE), COORDINATE WITH ELECTRICAL. PROVIDE ADAPTOR CURB FOR NEW INSTALL AND COORDINATE WITH ROOFING CONTRACTOR FOR WATER TIGHT SEAL.
6. REMOVE AND REPLACE EXISTING TOILET AND LOCKER ROOM EXHAUST FANS AND PREPARE FOR NEW.
7. REMOVE EXISTING LOCKER ROOM SPLIT SYSTEM IN ITS ENTIRETY, TO INCLUDE, REF PIPING, DUCTWORK, CONTROLS, ETC. COORDINATE WITH OTHER TRADES, AS REQUIRED.
8. REMOVE EXISTING T-STAT CONTROLS AND PREPARE FOR NEW. SEE SCHEDULE FOR ADDITIONAL INFORMATION.
9. REMOVE EXISTING ROOF TOP UNITS (RTU) AND CAP EXISTING CURBS (TYP), CAP EXISTING GAS LINE, AS REQUIRED. REMOVE ASSOCIATED DUCTWORK BELOW ROOF, AS NEEDED, FOR NEW INSTALL OF EQUIPMENT.
10. REMOVE EXISTING RTU AND PREPARE FOR NEW OUTSIDE AIR UNIT. PROVIDE ADAPTOR CURB AND COORDINATE WITH ELECTRICAL. SEE NEW PLAN.
11. PREPARE ROOF FOR NEW RTU CURB LOCATION. COORDINATE WITH MFR FOR EXACT SIZE. FIELD VERIFY EXISTING CONDITIONS BELOW ROOF LINE. EXISTING GAS LINE SHALL BE PREPARED FOR NEW RTU CONNECTION. SEE NEW PLAN.



KEY PLAN  
NOT TO SCALE



DESIGN PROFESSIONAL



PLAN REVIEWER

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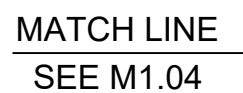
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MECHANICAL  
UADRANT 1

M1.01

MECHANICAL

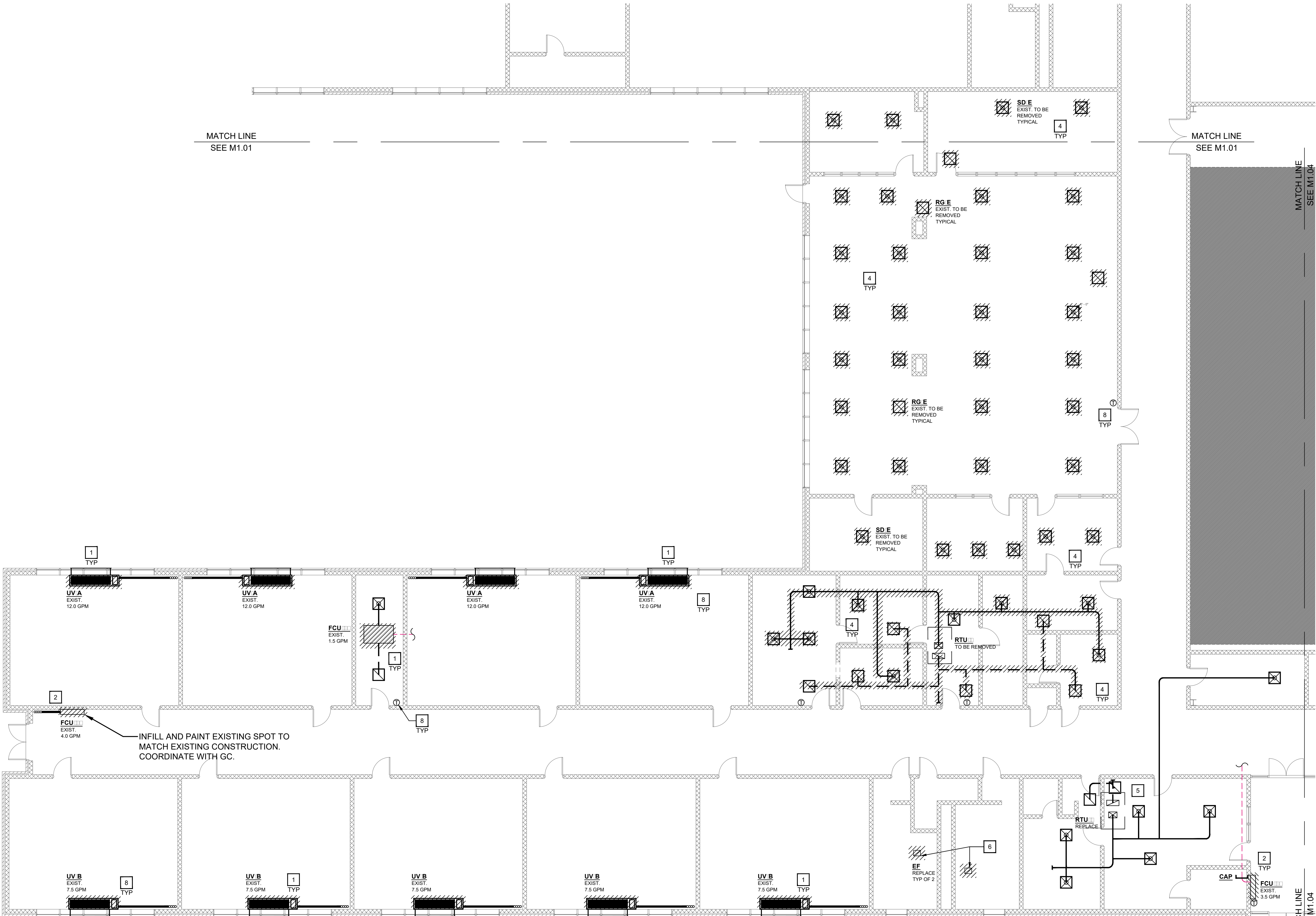




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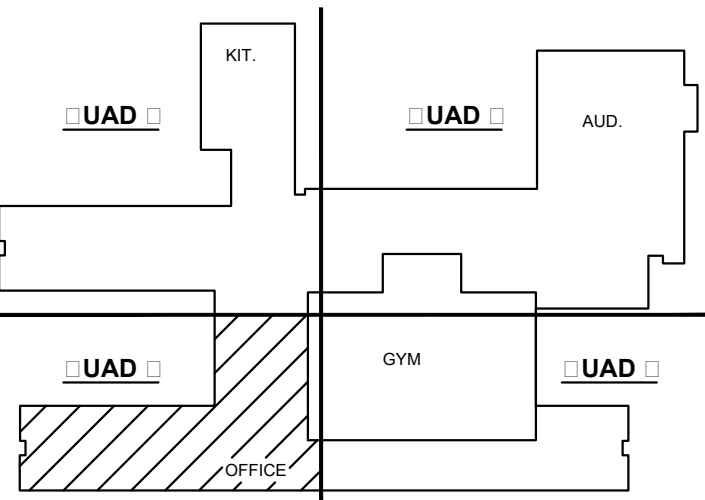




**1** QUADRANT '3' - ENLARGED FLOOR PLAN  
SCALE: 1/8"=1'-0"

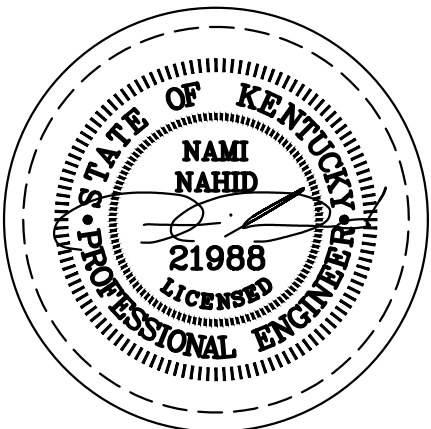
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**KEY PLAN**

NOT TO SCALE



DESIGN PROFESSIONAL



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**TODD COUNTY  
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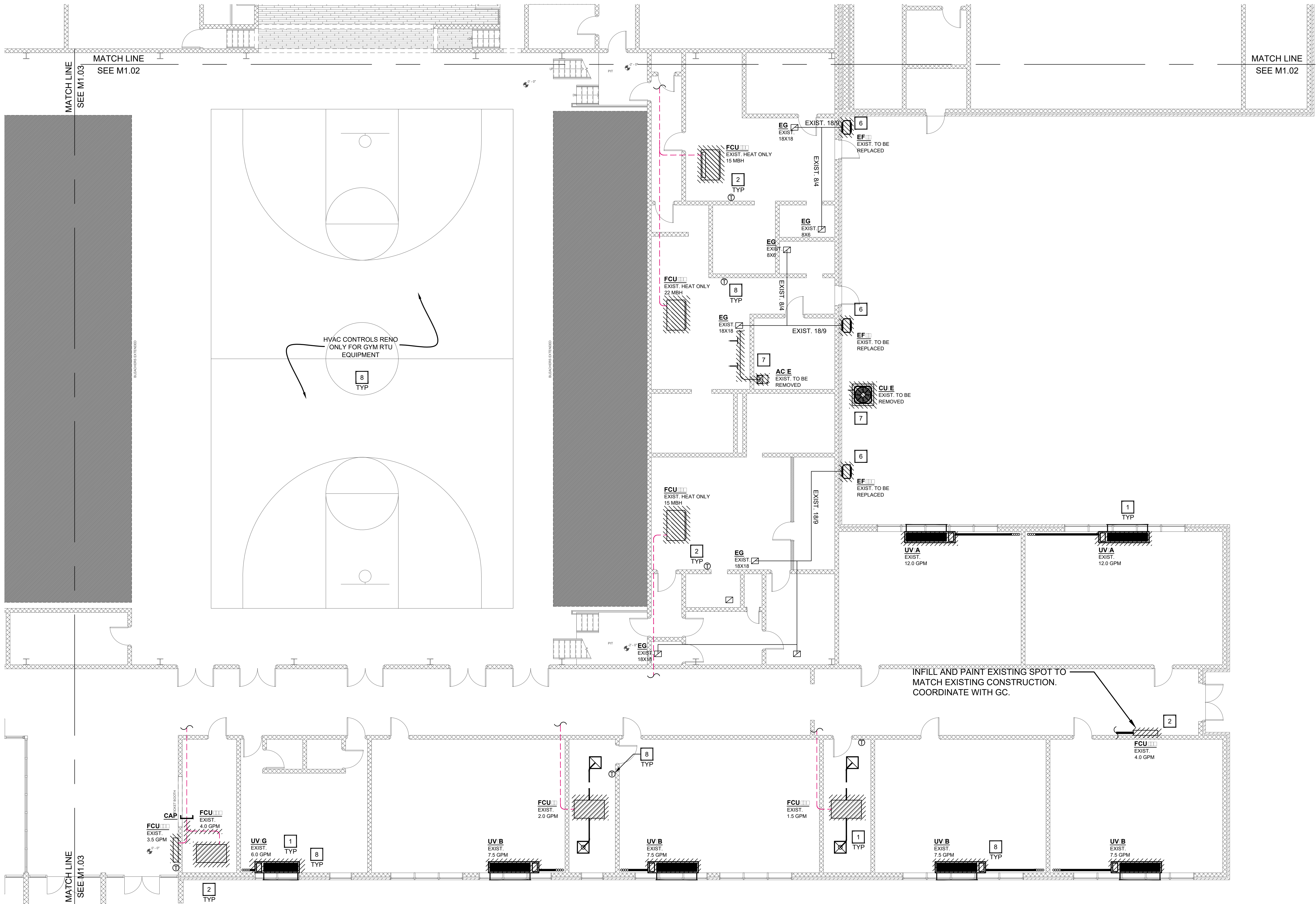
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MECHANICAL  
UADRANT

**M1.0**

MECHANICAL

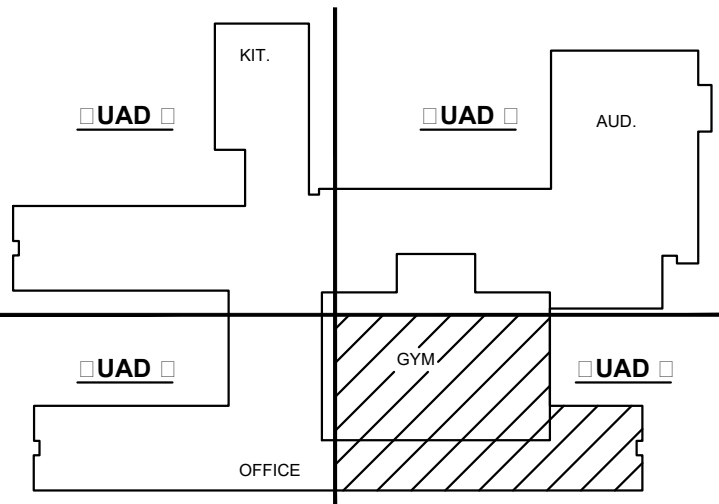




1 QUADRANT '4' - ENLARGED FLOOR PLAN  
SCALE: 1/8"=1'-0"

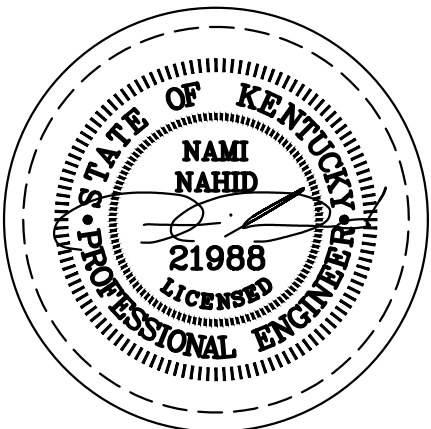
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KEY PLAN

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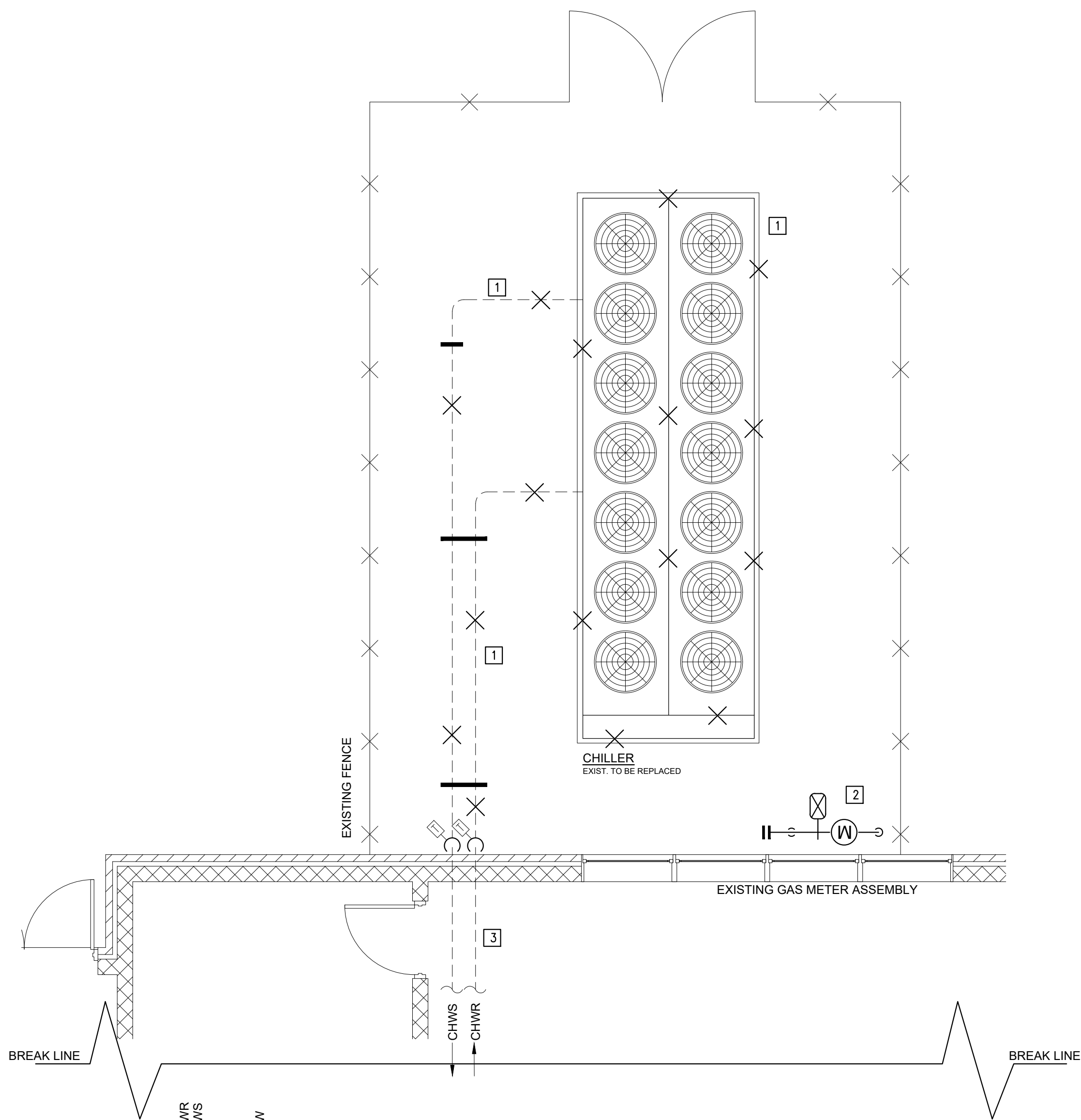
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MECHANICAL  
UADRANT 4

M1.04

MECHANICAL

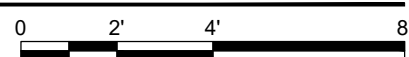




### MECHANICAL DEMO NOTES:

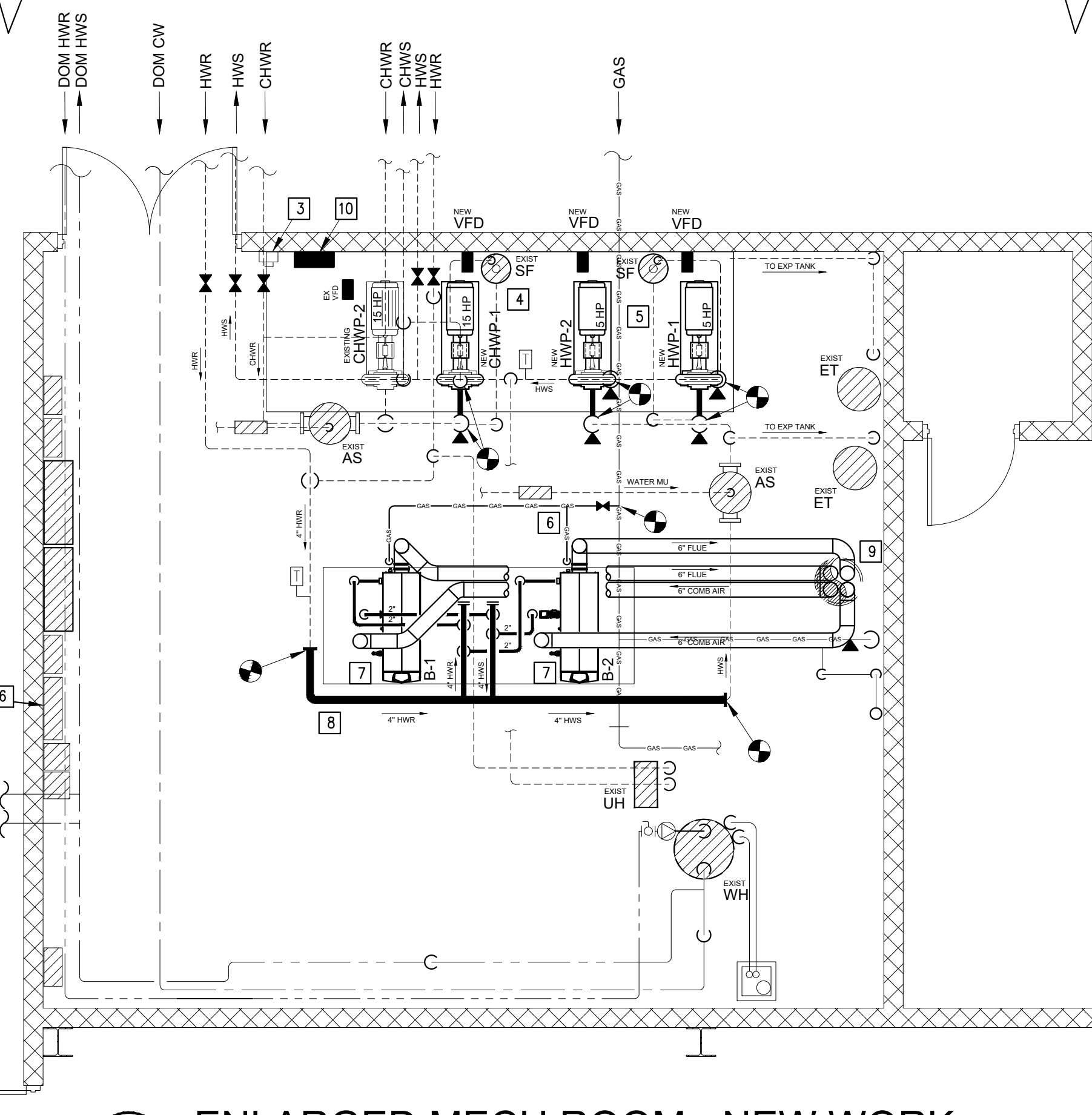
- 1 REMOVE EXISTING CHILLER WITH ALL ASSOCIATED POWER, PIPING, PIPING SUPPORTS, CONTROLS, ETC.. EXISTING BREAKERS TO BE REMOVED, POWER WILL BE RERUN THRU EXISTING CONDUITS FOR THE NEW CHILLER. EXISTING PAD TO REMAIN FOR NEW CHILLER LAYOUT.
- 2 EXISTING GAS MAIN SERVICE TO REMAIN.
- 3 EXISTING CHILLED WATER SUPPLY AND RETURN MAIN PIPING TO REMAIN ABOVE CEILING. NEW PIPING CONNECTION TO NEW CHILLER WILL BE AT THE WALL PENETRATION ON THE EXTERIOR OF THE BUILDING.
- 4 EXISTING CHILLED WATER PUMP WITH VFD TO REMAIN.
- 5 EXISTING BOILER EMERGENCY SHUT OFF SWITCH TO REMAIN AND RECONNECT TO NEW BOILERS.
- 6 EXISTING TV WIRING / CONTROL CABINETS TO BE REMOVED AND REPLACED AS NEEDED BY NEW TEMP CONTROL PANELS.
- 7 REMOVE EXISTING OLDER CHILLED WATER PUMP WITH ASSOCIATED BREAKER AND REPLACE WITH NEW AS SHOWN ON THE DRAWING. REMOVE PIPING UP TO AND INCLUDING TRIPLE DUTY VALVE.
- 8 EXISTING CHEMICAL SHOT FEEDER TO REMAIN AND RECONNECTED TO NEW CHILLED WATER PUMPING SYSTEM.
- 9 REMOVE EXISTING HOT WATER PUMP WITH ASSOCIATED BREAKER AND PIPING UP TO INCLUDING TRIPLE DUTY VALVES. NEW HOT WATER PUMP WILL BE INSTALLED AT THE SAME LOCATION WITH VFD.
- 10 EXISTING HOT WATER SHOT FEEDER TO REMAIN. RECONNECT TO NEW HOT WATER PUMPING SYSTEM.
- 11 EXISTING HOT AND CHILLED WATER EXPANSION TANKS TO REMAIN AND RECONNECTED TO EXISTING PIPING.
- 12 EXISTING AIR SEPARATOR TO REMAIN WITH ASSOCIATED MAKE UP WATER LINE.
- 13 REMOVE PORTION OF THE HOT WATER LINE CONNECTING TO EXISTING BOILER AND ASSOCIATED VALVES. THIS PIPING WILL BE REWORKED FOR NEW BOILERS.
- 14 EXISTING HOT WATER UNIT HEATER WITH ASSOCIATED PIPING TO REMAIN.
- 15 REMOVE EXISTING BOILER WITH ALL ASSOCIATED POWER, WIRING, RELIEF VENTS, ETC.. GAS PIPING TO BE REMOVED TO SHUT-OFF VALVE AT VERTICAL PIPE BY THE WALL. REMOVE FLUE UP TO THE CEILING AND CAP PREPARING FOR NEW BOILER VENT / COMBUSTION AIR PIPING. REMOVE FLUE CAP ON THE ROOF AND REPLACE WITH A CURB CAP TO ALLOW NEW FLUE / COMBUSTION AIR TO ROOF AREA.

**1 ENLARGED MECH ROOM - EXISTING / DEMO**  
SCALE: 1/4"=1'-0"

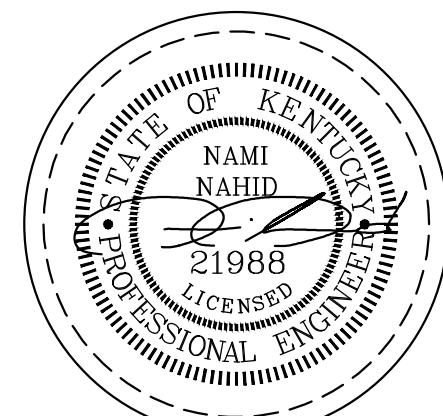
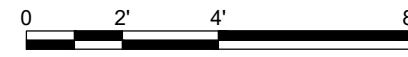


### MECHANICAL NEW NOTES:

- 1 NEW 120 TON AIR-COOLED CHILLER INSTALLED ON EXISTING CONCRETE PAD. INSTALL CHILLER ON HOUSED SPRING ISOLATORS EQUAL TO MASON MODEL C1W.
- 2 NEW 6" CHILLED WATER SUPPLY AND RETURN LINES WITH 2" FIBERGLASS INSULATION AND METAL JACKET. PROVIDE ELECTRIC HEATING TAPE FOR FREEZE PROTECTION ON PIPING BELOW INSULATION WITH THERMOSTAT TO ACTIVATE HEAT TAPE. INSTALL PIPE SUPPORT ON HORIZONTAL LINES. INSTALL SHUT-OFF VALVE + DRAIN POINT AT THE LOWEST LEVEL. REPLACE CHILLED WATER SUPPLY AND RETURN TEMP SENSORS AT THE WALL PENETRATION.
- 3 RECONNECT EXISTING EMERGENCY SHUT OFF TO NEW BOILER POWER OPERATION.
- 4 NEW CHILLED WATER PUMP WITH NEW VFD, SHUT OFF VALVE, SUCTION DIFFUSER, DRAIN VALVE, SUPPLY / RET PRESSURE GAUGES, INSTALLED ON EXISTING CONCRETE PAD. PROVIDE FULLY INSULATED SUCTION DIFFUSER AND PUMP PLUME WITH VELCRO FOAM INSULATION. RECONNECT PIPING AND NEW SHUT OFF VALVE TO EXISTING SHOT FEEDER ON SUPPLY AND RETURN OF THE PUMP. COORDINATE ALL HIGH VOLTAGE WIRING WITH ELECTRICAL CONTRACTOR. VFD PROVIDED AND INSTALLED BY CONTROL CONTRACTOR.
- 5 NEW HOT WATER PUMP WITH NEW VFDs, SHUT OFF VALVES, SUCTION DIFFUSERS, DRAIN VALVES, SUPPLY / RET PRESSURE GAUGES, INSTALLED ON EXISTING CONCRETE PAD. PROVIDE FULLY INSULATED PIPING DOWN TO PUMP SUCTION DIFFUSER CONNECTION. RECONNECT PIPING AND NEW SHUT OFF VALVE TO EXISTING SHOT FEEDER ON SUPPLY AND RETURN OF THE PUMP. COORDINATE ALL HIGH VOLTAGE WIRING WITH ELECTRICAL CONTRACTOR. VFDs PROVIDED AND INSTALLED BY CONTROL CONTRACTOR.
- 6 NEW 2" GAS LINE TO SERVE NEW BOILERS WITH SHUT OFF VALVE. SPLIT AND RUN 1-1/2" GAS LINE TO EACH BOILER CONNECTION. INSTALL NEW GAS COCK, DRIP LEG, AND ACCESSORIES AS PER BOILER MANUFACTURER'S RECOMMENDATIONS.
- 7 NEW BOILERS (B-1,B-2) INSTALLED ON EXISTING CONCRETE PAD, EXTEND PAD AS NECESSARY. INSTALL DRAIN PIPING WITH ACID NEUTRALIZATION CONTAINER TO EXISTING MECH ROOM DRAIN POINT. CONNECT NEW PIPING, FLUE, COMBUSTION AIR AS PER DETAIL AND MANUFACTURER'S RECOMMENDATIONS.
- 8 NEW 4" HOT WATER PIPING WITH 1-1/2" FIBERGLAS INSULATION AND PVC JACKET. INSTALL 4" HOT WATER SUPPLY AND RETURN BRANCH CONNECTION 12" APART FROM MAIN AND 2" RUN-OUTS FROM BRANCH LINE TO EACH BOILER. SEE DETAIL ON BOILER PUMPS, AND VALVE CONNECTIONS.
- 9 NEW 6" COMBUSTION AIR PIPING AND FLUE UP THRU EXISTING ROOF OPENING WHERE OLD BOILER FLUE WAS ROUTED. INSTALL NEW ROOF CURB WITH INSULATED COVER. INSTALL SCREEN ON COMB AIR / FLUE TERMINATED WITH GOOSENECK ABOVE ROOF LINE. MC RESPONSIBLE FOR ROOF REWORK AND RE-FLASHING AS NEEDED.
- 10 NEW LOCATION OF HVAC CONTROL SYSTEM. RECONNECT POWER TO THIS PANEL FROM EXISTING REMOVED CONTROLS IN SAME AREA.



**2 ENLARGED MECH ROOM - NEW WORK**  
SCALE: 1/4"=1'-0"



DESIGN PROFESSIONAL



PLAN REVIEWER

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ENSURE THAT ALL PERMITS AND APPROVALS ARE  
OBTAINED PRIOR TO COMMENCING WORK.

BY ACE

DATE 02/18/2021

SET CONSTRUCTION DOCUMENTS



REVISION DESCRIPTION

Δ DDMM/YYYY REVISION DESCRIPTION

**TODD COUNTY  
CENTRAL HIGH SCHOOL  
RENOVATION 2020**  
  
806 SOUTH MAIN ST.  
ELKTON, KENTUCKY 42220  
CONTRACT 20200821

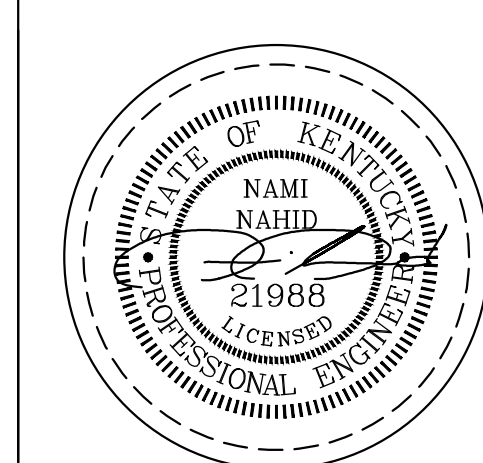
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CONTRACT.

ENLARGED MECHANICAL  
ROOM

**M2.00**

MECHANICAL





DESIGN PROFESSIONAL

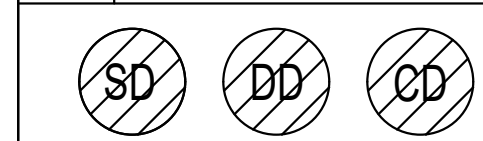
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BY: NN

DATE: 02/18/2021

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TODD COUNTY  
CENTRAL HIGH SCHOOL  
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BOILER RM DETAILS AND SCHEDULES

M2.01

MECHANICAL

## HVAC CONTROLS SYSTEM

### Building Automation System:

BUILDING WITH ALL NEW CONTROL SYSTEM BASED ON RELIABLE CONTROLS.  
MAIN CONTROL TOUCHSCREEN PANEL INSTALLED IN MAIN MECHANICAL ROOM AND TIED TO NEW CAMPUS WIDE ON-LINE CONTROL SYSTEM.  
MAIN MECH ROOM CONTROLLER SHALL BE A UL CABINET WITH A TOUCHSCREEN PAD TO ACCESS HIGH SCHOOL HVAC SYSTEM OPERATION.

### VRV System Controller:

PROVIDE AN I-TOUCH MANAGER IN MECHANICAL ROOM NEXT TO MAIN TOUCHSCREEN CONTROL CABINET TO CONTROL ALL NEW VRV SYSTEMS  
ALL VRV SYSTEM INDOOR UNITS WITH ROOM CONTROLLERS (SAME MANUFACTURER AS VRV SYSTEM) WITH TEMPERATURE / RH SENSORS ON WALL  
I-TOUCH CONTROLLER TO RUN STAND-ALONE AND ALSO TIED TO CAMPUS WIDE ON-LINE CONTROL SYSTEM.

### Mechanical Room Controls:

Furnish and install new UL listed DDC control panel to control 2(ea) chill water pump VFD, including current transducers for status, 2(ea) hot water pumps VFD, including current transducers for pump status, 2(ea) boilers, 2(ea) boiler pumps, 1(ea) chillers (NEW), outside air temperature sensor, building hot water supply and return temperature sensors, boiler supply temperature sensor, building chill supply and return temperature sensors.

Provide any required programming for mechanical system.

Tie directly into building MAIN controller.

### Classrooms Unit Ventilators / Misc FCUs:

Furnish and install new Reliable digital thermostat and RH sensor for each unit tied to main controller

Each Unit Ventilator / FCU furnished with BACnet module for control contractor to tie into

CONTROL CONTRACTOR TO FURNISH AND INSTALL 3-WAY MODULATING VALVES ON BOTH CHILLED AND HOT WATER PIPING KIT PROVIDED BY FCU MANUFACTURER.

### NEW RTUs SERVING FRONT OFFICE / CAFETERIA / KITCHEN / AG SHOP AREA:

ALL NEW PACKAGED RTUs WILL BE PROVIDED WITH BACnet CONTROL MODULE. CONTROL CONTRACTOR TO PROVIDE AND INSTALL NEW WALL THERMOSTAT / RH SENSOR AND TIE BACK INTO NEW CAMPUS CONTROLLER.

### EXISTING PACKAGED RTU SERVING BAND AND AUDITORIUM AREAS (TYPICAL OF 5 RTUs)

Existing PACKAGED RTUs BE UPDATED WITH NEW BACnet CONTROL MODULES WITH NEW WALL THERMOSTAT / CONTROLLERS AND TIED TO NEW RELIABLE CONTROL SYSTEM.

### NEW EXHAUST FANS:

FANS TO OPERATE AS PER DEDICATED SPACE SENSORS / SWITCHES.

MAIN CONTROLLER WITH SYSTEM GRAPHICS TO MONITOR ALL FAN OPERATIONS STATUS WITH OVERRIDES.

ALARM WHEN FAN FAILURE.

SPACES WITH TEMPERATURE ACTIVATION, SHOW TEMPERATURE AT THE ZONE ON GRAPHICS WITH FAN STATUS.

MAIN GANG TOILET EXHAUST FANS TO RUN CONTINUOUSLY AS PER SCHEDULE (8AM TO 5PM) ADJUSTABLE.

### WALK-IN FREEZER / COOLER

INSTALL NEW TEMP SENSORS IN WALK-IN FREEZER AND COOLER WITH MONITORING AT MAIN CONTROL SYSTEM.  
PROGRAM TO ALERT USER THRU TEXT WHEN TEMP RISE ABOVE SETPOINT.

## PIPING, DUCTWORK AND INSULATION SCHEDULE

### WEATHER EXPOSED PIPING AND INSULATION.

EXPOSED WEATHER PIPING AT CHILLER CONNECTIONS SHALL BE STEEL ASTM A-53 WITH FIBERGLASS INSULATION.  
INSTALL ALUMINUM EXTERNAL JACKET OVER FIBERGLASS INSULATION TO MATCH EXISTING.  
PROVIDE PRE-MOLDED INSULATION OVER ALL EXTERNAL EXPOSED VALVES.

### MECHANICAL ROOM PIPING MATERIAL AND INSULATION.

STEEL ASTM A-53 WITH GROOVED VICTAULIC COUPLING FOR ALL PIPING ABOVE 2"

2" AND BELOW SHALL BE COPPER WITH SOLDERED JOINTS.

ALL VALVE CONNECTIONS SHALL BE FLANGED WITH EPDM GASKET.

INSULATION FIBERGLASS: ONE-PIECE MOLDED THREE POUND DENSITY (ASTM C547, CLASS 2) WITH FACTORY

APPLIED ALL-SERVICE JACKET WITH SELF-SEALING LAP.

INSULATION SUITABLE FOR PAINTING WITH LATEX PAINTS. INSULATION SUITABLE FOR PIPE TEMP. FROM 0 DEG. TO 850 DEG. JACKET WITH VAPOR BARRIER WITH A PERMEANCE OF LESS THAN 0.02 PERMS/IN. (ASTM E96)

MECHANICAL ROOM INSULATION SHALL HAVE ADDITIONAL PVC JACKET.

STENCIL ALL PIPING IN THE MECHANICAL ROOM WITH CONTENT AND DIRECTION EVERY 6' INTERVAL.

### BUILDING PIPING AND INSULATION.

STEEL ASTM A-53 WITH GROOVED VICTAULIC COUPLING FOR ALL PIPING ABOVE 2"

2" AND BELOW SHALL BE COPPER WITH SOLDERED JOINTS. DRAIN PIPES SHALL EITHER COPPER OR PVC

WITH 1/2" BLACK FOAM INSULATION.

INSULATION FIBERGLASS: ONE-PIECE MOLDED THREE POUND DENSITY (ASTM C547, CLASS 2) WITH

FACTORY APPLIED ALL-SERVICE JACKET WITH SELF-SEALING LAP.

INSULATION SUITABLE FOR PAINTING WITH LATEX PAINTS. INSULATION SUITABLE FOR PIPE TEMP. FROM 0 DEG. TO 850 DEG. JACKET WITH VAPOR BARRIER WITH A PERMEANCE OF LESS THAN 0.02 PERMS/IN. (ASTM E96)

DUCTWORK AND AIR DEVICES INSULATION.

DUCTWORK AS PER LATEST SMACNA GUIDELINES FOR LOW PRESSURE SYSTEM.

INSULATED ALL (SUPPLY, RETURN, EXHAUST, OUTSIDE AIR) WITH DOUBLE BUBBLE WRAP TYPE (R-8)

ALL DIFFUSERS AND GRILLES SHALL HAVE ABOVE DIFFUSER MOLDED INSULATION ON FACE PLATES.

### MISC. INSULATION.

ALL PUMPS, AIR-SEPARATORS, AND EXPANSION TANKS. INSULATED WITH BLACK FOAM INSULATION.

ALL CHILLED AND HOT WATER VALVES WITHIN THE PIPINGS. ONE PIECE PRE-MOLDED INSULATION.

### REFRIGERANT LINE INSULATION:

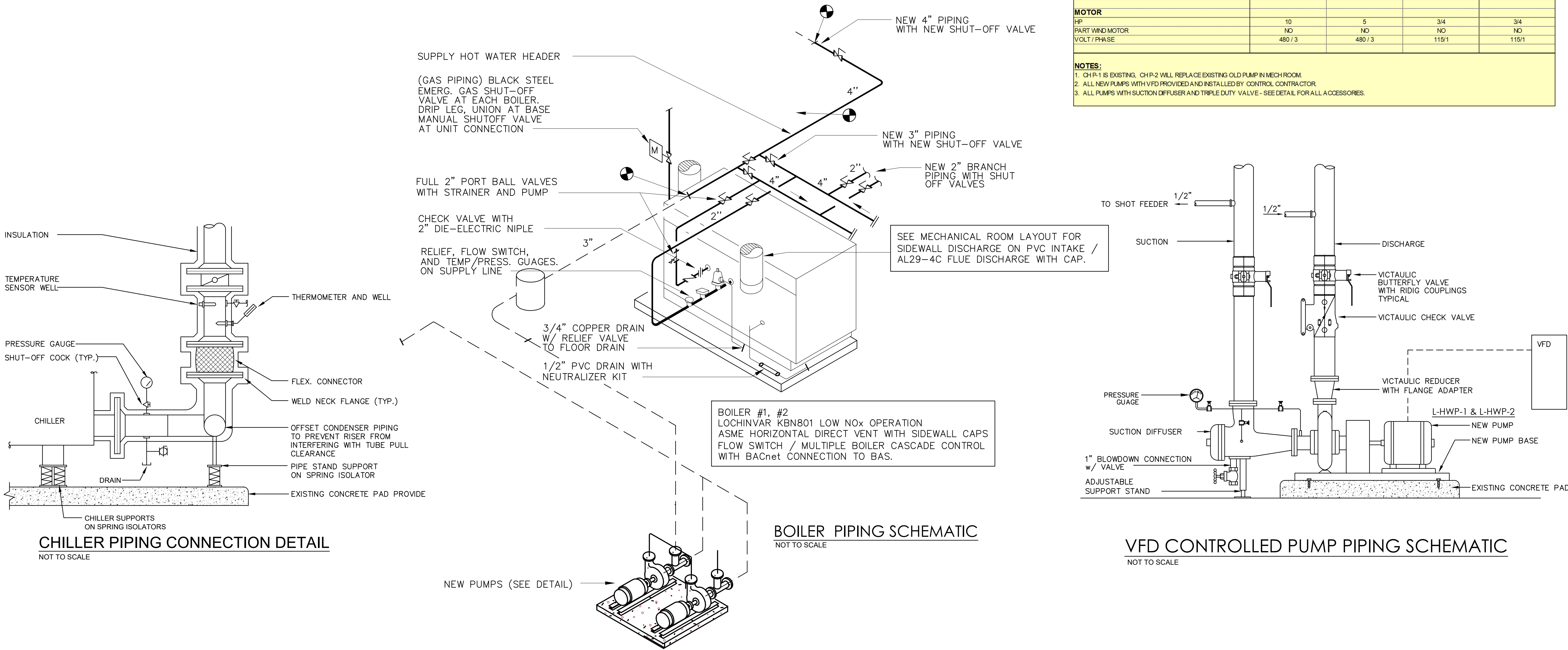
INSULATE ALL REFRIGERANT LINES WITH 3/4" PRE-MOLDED BLACK FOAM INSULATION.

ALL EXTERIOR EXPOSED REFRIGERANT LINES SHALL HAVE ADDITIONAL PVC JACKET INSULATION.

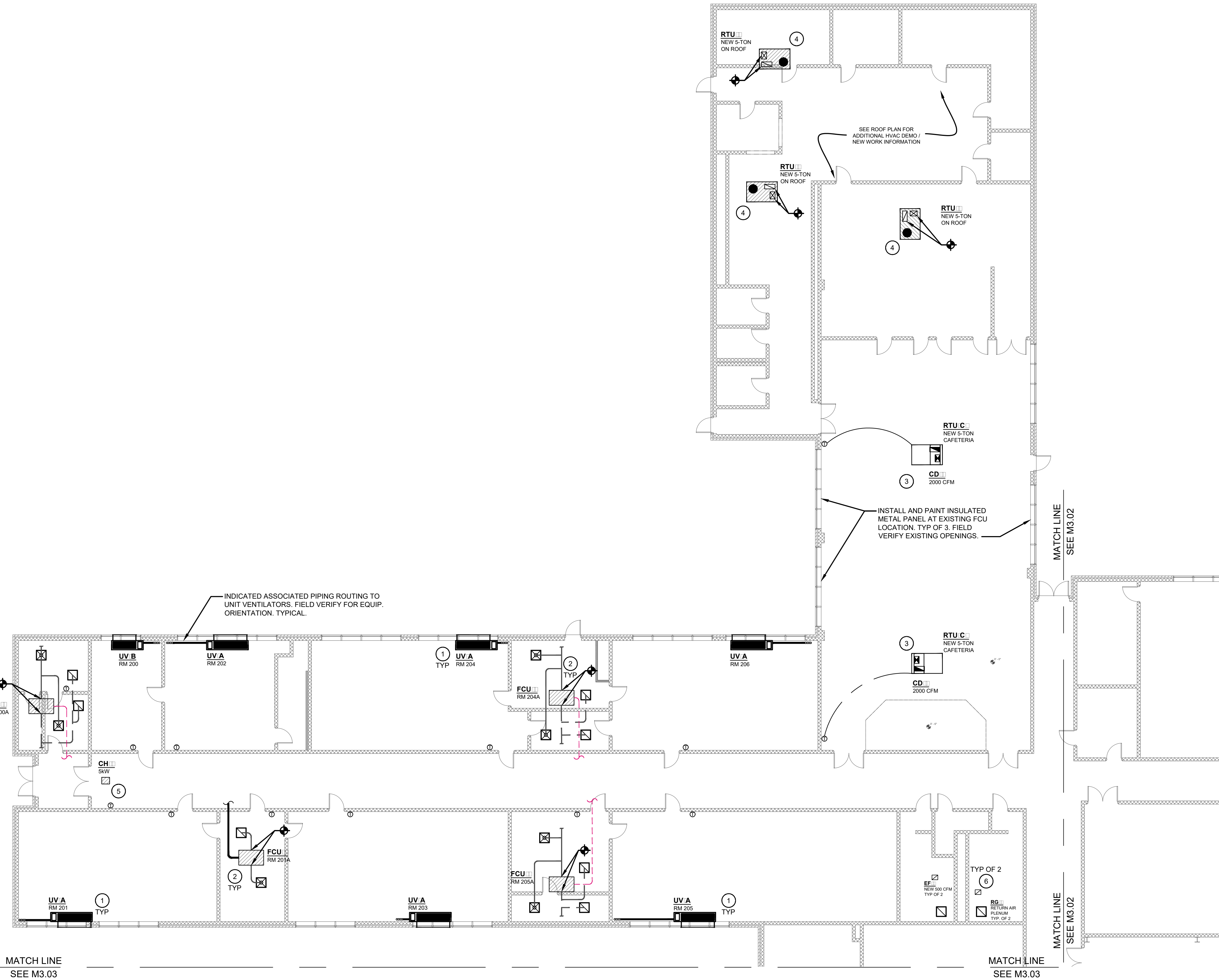
### VRV DRAIN PIPING

ALL INDOOR UNITS SHALL HAVE PVC CONDENSATE DRAIN PIPING ROUTED TO NEAREST FLOOR / JAN. SINK.

PIPING CAN BE COMBINED FOR MULTIPLE INDOOR UNITS. SLOPE PIPING FOR GRAVITY DRAIN.







MATCH LINE  
SEE M3.03

MATCH LINE  
SEE M3.03

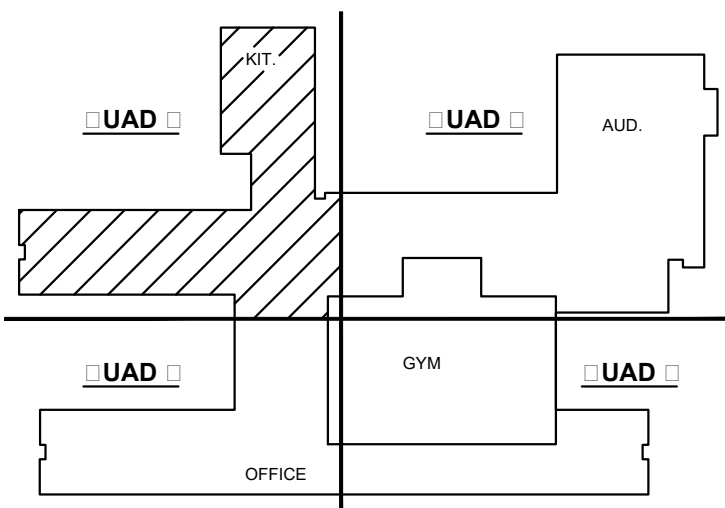
# 1 QUADRANT '1' - ENLARGED FLOOR PLAN - NEW WORK

SCALE: 3/32"=1'-0"

0 8' 16' 24'

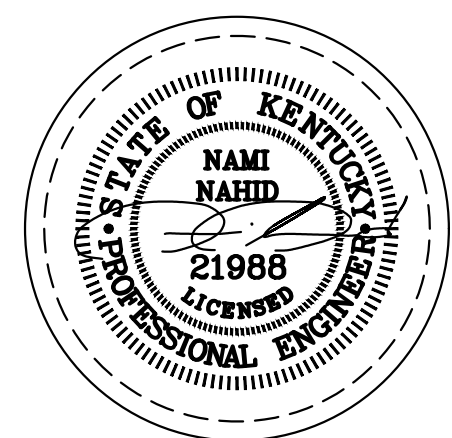
## NEW WORK NOTES:

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2. INSTALL NEW HORIZONTAL FAN COIL UNIT (ABOVE CEILING) AND CONNECT TO EXISTING SUPPLY AND RETURN DUCTWORK. FIELD VERIFY EXISTING CONDITIONS, ABOVE CEILING. TRANSITION DUCTWORK, AS REQUIRED, TO CONNECT TO EQUIPMENT. COORDINATE WITH ELECTRICAL FOR COMPLETE INSTALL. TYPICAL.
3. INSTALL NEW ROOF TOP UNITS, WITH CURBS, AT BOTH CAFETERIA AND AG SHOP LOCATIONS. COORDINATE WITH ROOFING CONTRACTOR FOR FLASHING AND INSTALL. ROUTE DUCTWORK DOWN TO CONCENTRIC DIFFUSER IN CEILING SPACE. COORDINATE WITH MFR, AS REQUIRED FOR INSTALL. FIELD VERIFY EXISTING STRUCTURAL BEAM LOCATIONS BEFORE EXACT PLACEMENT. PROVIDE WALL MOUNTED T-STAT FOR EACH RTU. SEE CONTROLS SCHEDULE AND SPECS. PROVIDE AND CONNECT TO EXISTING GAS LINE ON ROOF. PROVIDE REGULATOR, SHUT-OFF, DRIP LEG, ETC. SEE ROOF PLAN.
4. COMPLETELY INSTALL NEW RTU'S AT EXISTING LOCATIONS. PROVIDE ADAPTOR CURB, AS REQUIRED. MAINTAIN 10'-0" MINIMUM DISTANCE FROM ROOF EDGE. RECONNECT TO GAS LINE, POWER, DUCTWORK, ETC. AS REQUIRED FOR EXISTING LOCATIONS. SEE ROOF PLAN. COORDINATE WITH ELECTRICAL, TYPICAL.
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6. NEW ROOF MOUNTED EXHAUST FANS SHALL BE INSTALLED AT EXISTING LOCATIONS AND RECONNECTED TO EXISTING DUCTWORK (FIELD VERIFY). PROVIDE ADAPTOR CURB, AS REQUIRED. SEE CONTROLS SPECS. INSTALL NEW 2X2 PLENUM EXHAUST GRILLE IN NEW 2X2 ACT CEILING AT TOILET LOCATIONS. COORDINATE WITH LIGHTING CONTRACTOR FOR EXACT LAYOUT.
7. INSTALL NEW VRF CONDENSING UNITS ON 8" EQUIPMENT RAILS (ON ROOF) AND WITH HAIL GUARDS. ROUTE INSULATED REF. PIPING TO PIPE PORTAL BOX, DOWN TO ASSOCIATED INDOOR UNITS. COORDINATE WITH ROOFING CONTRACTOR, AS REQUIRED FOR INSTALL AND FLASHING. SEE ROOF PLAN. ALL INDOOR UNITS SHALL HAVE WALL MOUNTED T-STAT, TIED TO CONTROLS SYSTEM. ROUTE CONDENSATE TO NEAREST JAN. SINK AND/OR FLOOR DRAIN, ETC.



## KEY PLAN

NOT TO SCALE



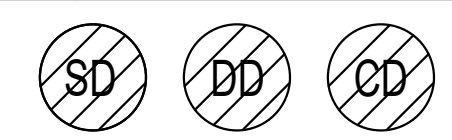
DESIGN PROFESSIONAL



PLAN REVIEWER

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| BY   | ACE                    |
| DATE | 02/18/2021             |
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MECHANICAL  
UADRANT 1

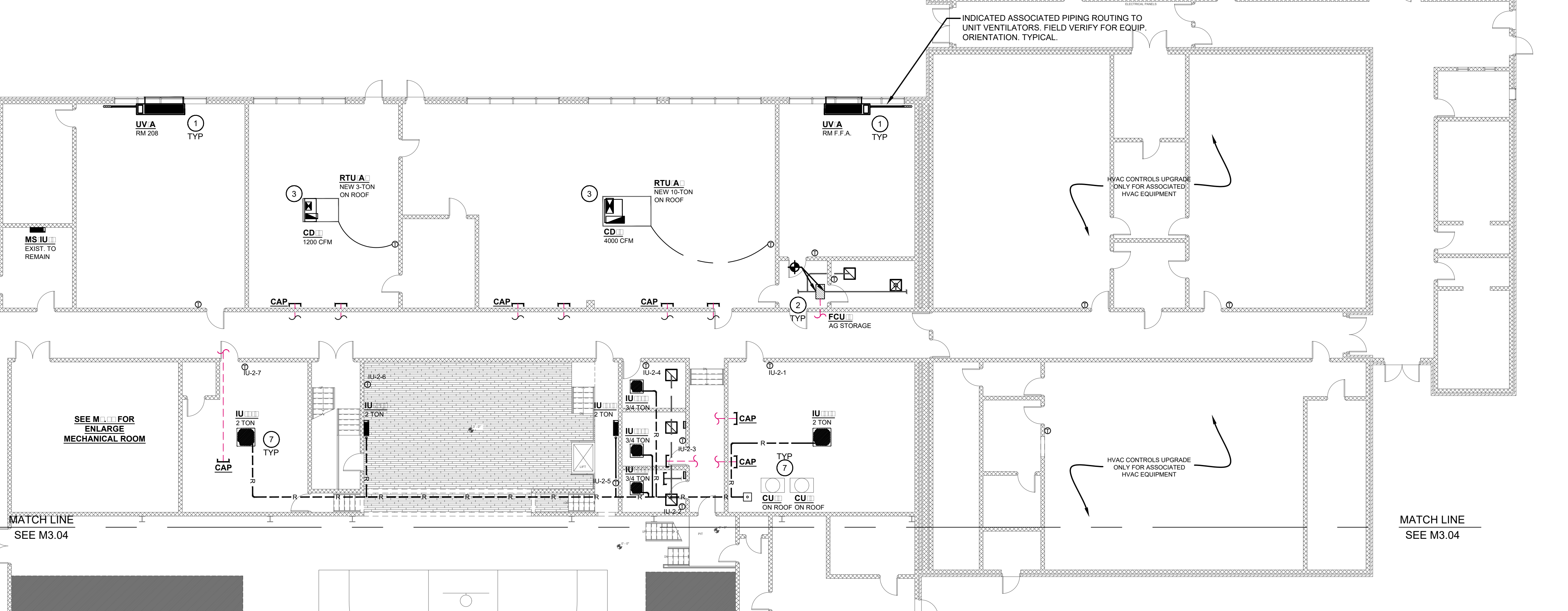
M .01

MECHANICAL



MATCH LINE  
SEE M3.01

MATCH LINE  
SEE M3.01

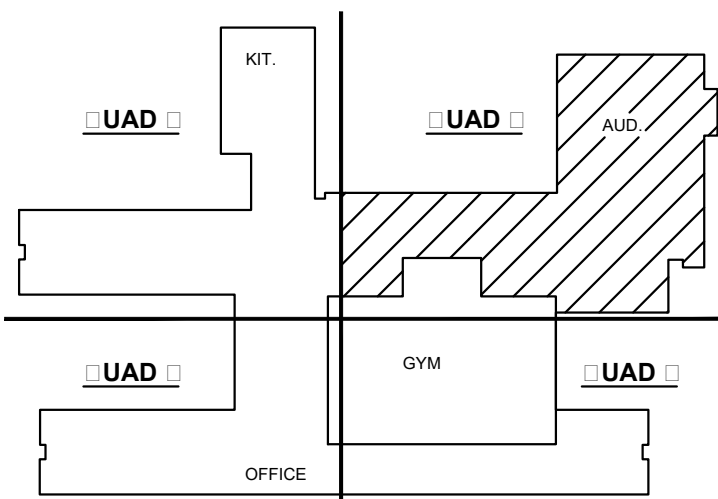


1 QUADRANT '2' - ENLARGED FLOOR PLAN - NEW WORK  
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0 8' 16' 24'

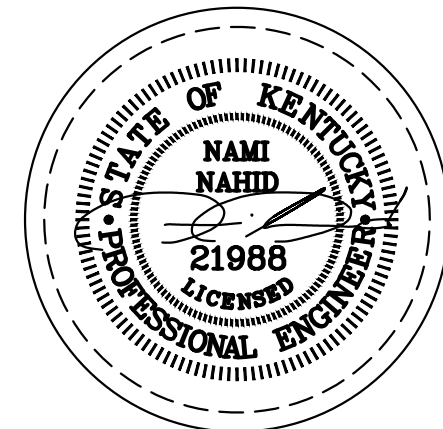
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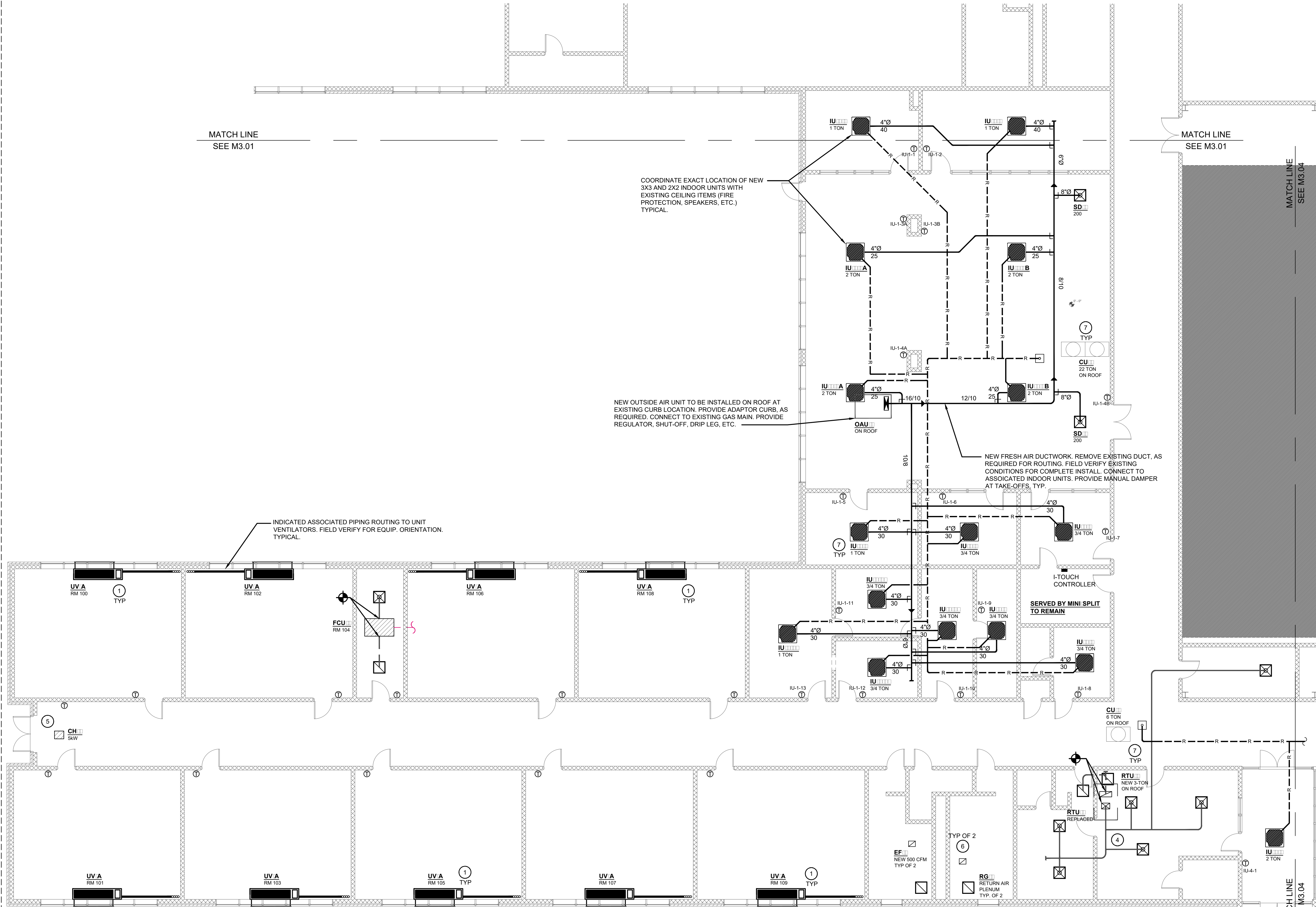
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MECHANICAL  
UADRANT 2

M .02

MECHANICAL

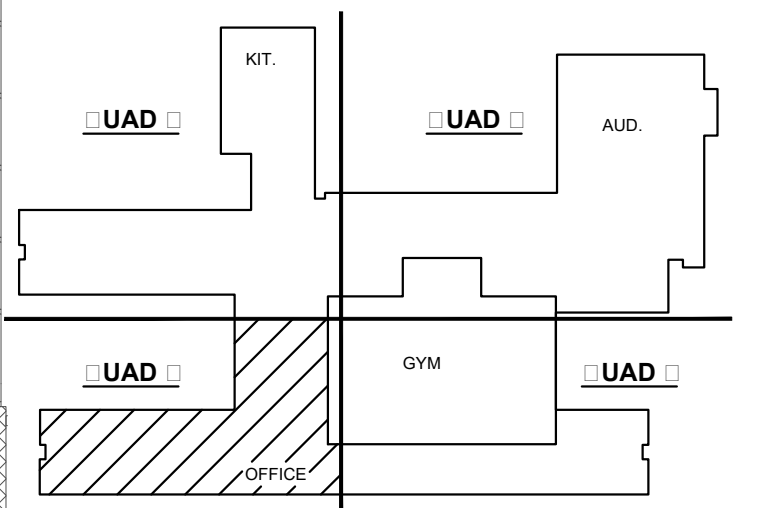




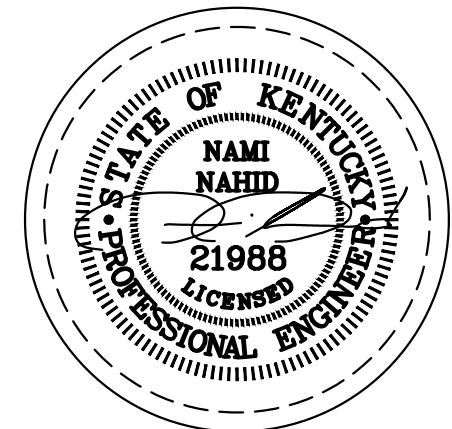
1 QUADRANT '3' - ENLARGED FLOOR PLAN - NEW WORK  
SCALE: 1/8"=1'-0"

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5. INSTALL NEW 5kW ELECTRIC CEILING HEATERS WITH WALL MOUNTED T-STATS, TIE TO NEW CONTROLS SYSTEM. COORDINATE WITH ELECTRICAL FOR COMPLETE INSTALL.
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KEY PLAN  
NOT TO SCALE



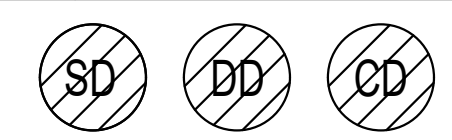
DESIGN PROFESSIONAL



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BY: ACE  
DATE: 02/18/2021  
SET: CONSTRUCTION DOCUMENTS



| REVISION | DESCRIPTION                    |
|----------|--------------------------------|
| 1        | DDMM/YYYY REVISION DESCRIPTION |
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TODD COUNTY  
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ELKTON, KENTUCKY 42220  
CONTRACT 20200821

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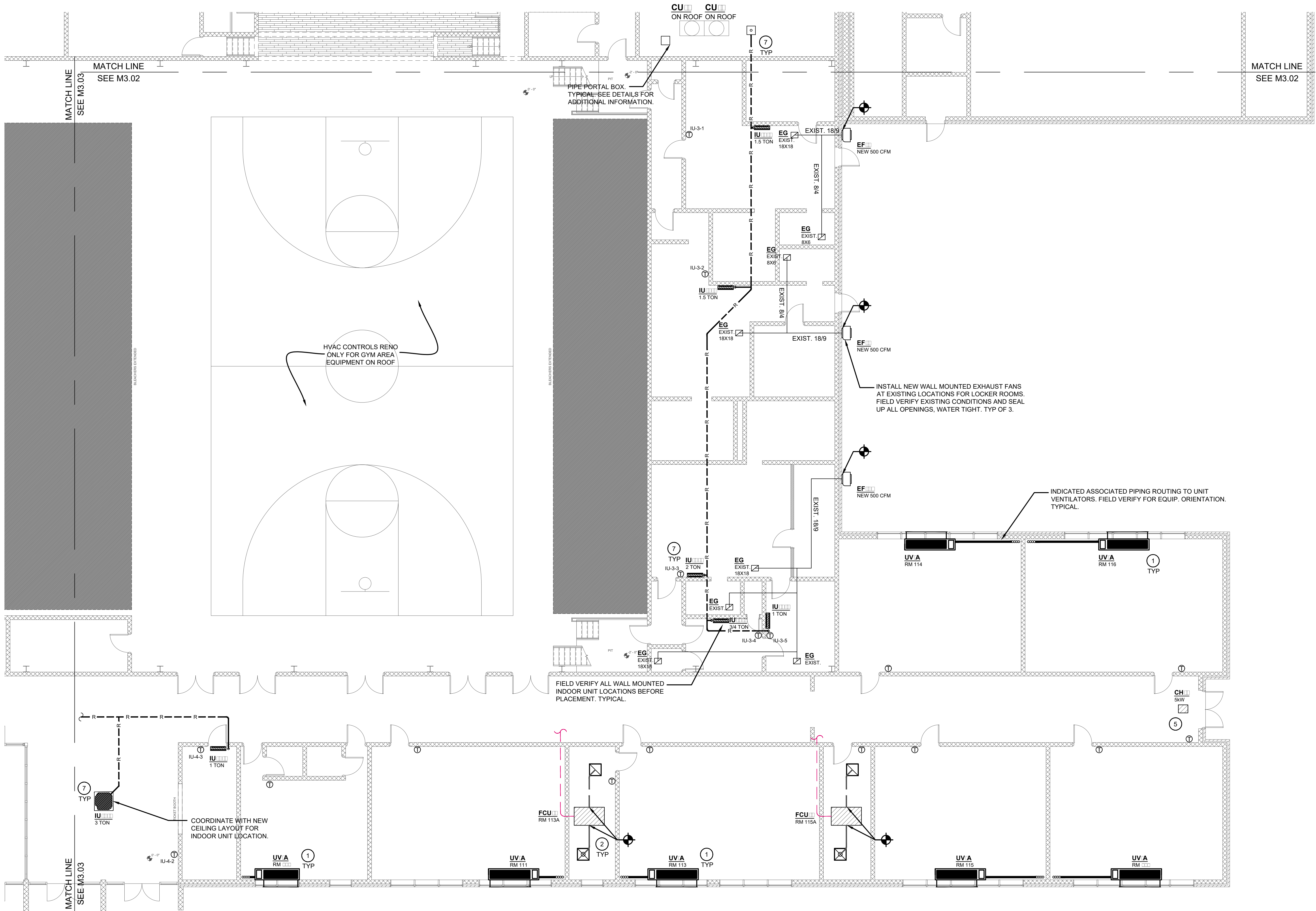
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MECHANICAL  
UADRANT

M 0

MECHANICAL



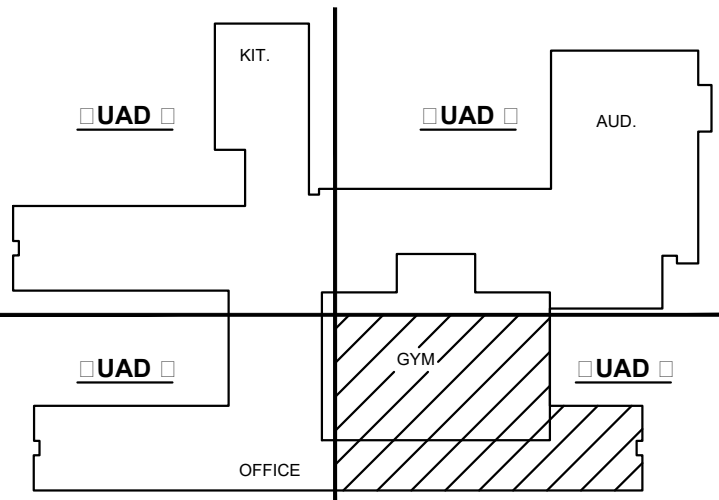


1 QUADRANT '4' - ENLARGED FLOOR PLAN - NEW WORK  
SCALE: 1/8"=1'-0"

0 4' 8' 16'

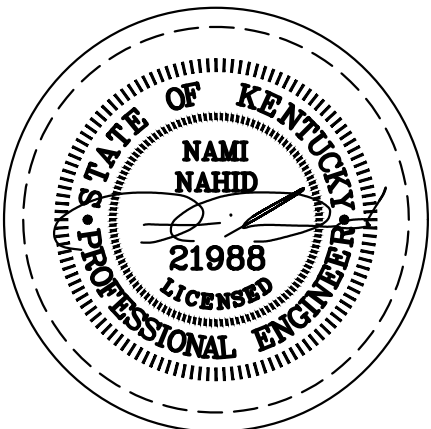
NEW WORK NOTES:

1. INSTALL NEW UNIT VENTILATORS (UV) AT EXISTING LOCATION. RECONNECT TO EXISTING 4 PIPE SYSTEM. COORDINATE WITH ELECTRICAL, AS REQUIRED FOR COMPLETE INSTALL. FIELD VERIFY FOR EQUIPMENT ORIENTATION AND COORDINATE WITH MFR, BEFORE INSTALL. REINSTALL EXISTING LOUVERS (CLEAN AND PAINTED) FOR EACH 'U'V'. ALL NEW 'U'V' SHALL HAVE NEW WALL MOUNTED CONTROLS, LOCATED NEAR ENTRY DOORWAY. SEE SCHEDULE AND SPECS FOR ADDITIONAL INFO.
2. INSTALL NEW HORIZONTAL FAN COIL UNIT (ABOVE CEILING) AND CONNECT TO EXISTING SUPPLY AND RETURN DUCTWORK. FIELD VERIFY EXISTING CONDITIONS, ABOVE CEILING. TRANSITION DUCTWORK, AS REQUIRED, TO CONNECT TO EQUIPMENT. COORDINATE WITH ELECTRICAL FOR COMPLETE INSTALL. TYPICAL.
3. INSTALL NEW ROOF TOP UNITS, WITH CURBS, AT BOTH CAFETERIA AND AG SHOP LOCATIONS. COORDINATE WITH ROOFING CONTRACTOR FOR FLASHING AND INSTALL. ROUTE DUCTWORK DOWN TO CONCENTRIC DIFFUSER IN CEILING SPACE. COORDINATE WITH MFR, AS REQUIRED FOR INSTALL. FIELD VERIFY EXISTING STRUCTURAL BEAM LOCATIONS BEFORE EXACT PLACEMENT. PROVIDE WALL MOUNTED T-STAT FOR EACH RTU. SEE CONTROLS SCHEDULE AND SPECS. PROVIDE AND CONNECT TO EXISTING GAS LINE ON ROOF. PROVIDE REGULATOR, SHUT-OFF, DRIP LEG, ETC. SEE ROOF PLAN.
4. COMPLETELY INSTALL NEW RTU'S AT EXISTING LOCATIONS. PROVIDE ADAPTOR CURB, AS REQUIRED. MAINTAIN 10'-0" MINIMUM DISTANCE FROM ROOF EDGE. RECONNECT TO GAS LINE, POWER, DUCTWORK, ETC. AS REQUIRED FOR EXISTING LOCATIONS. SEE ROOF PLAN. COORDINATE WITH ELECTRICAL, TYPICAL.
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KEY PLAN

NOT TO SCALE



DESIGN PROFESSIONAL



PLAN REVIEWER

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BY ACE

DATE 02/18/2021

SET CONSTRUCTION DOCUMENTS



REVISION DESCRIPTION

Δ DMM/YYYY REVISION DESCRIPTION



TODD COUNTY  
CENTRAL HIGH SCHOOL  
RENOVATION 2020

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ELKTON, KENTUCKY 42220  
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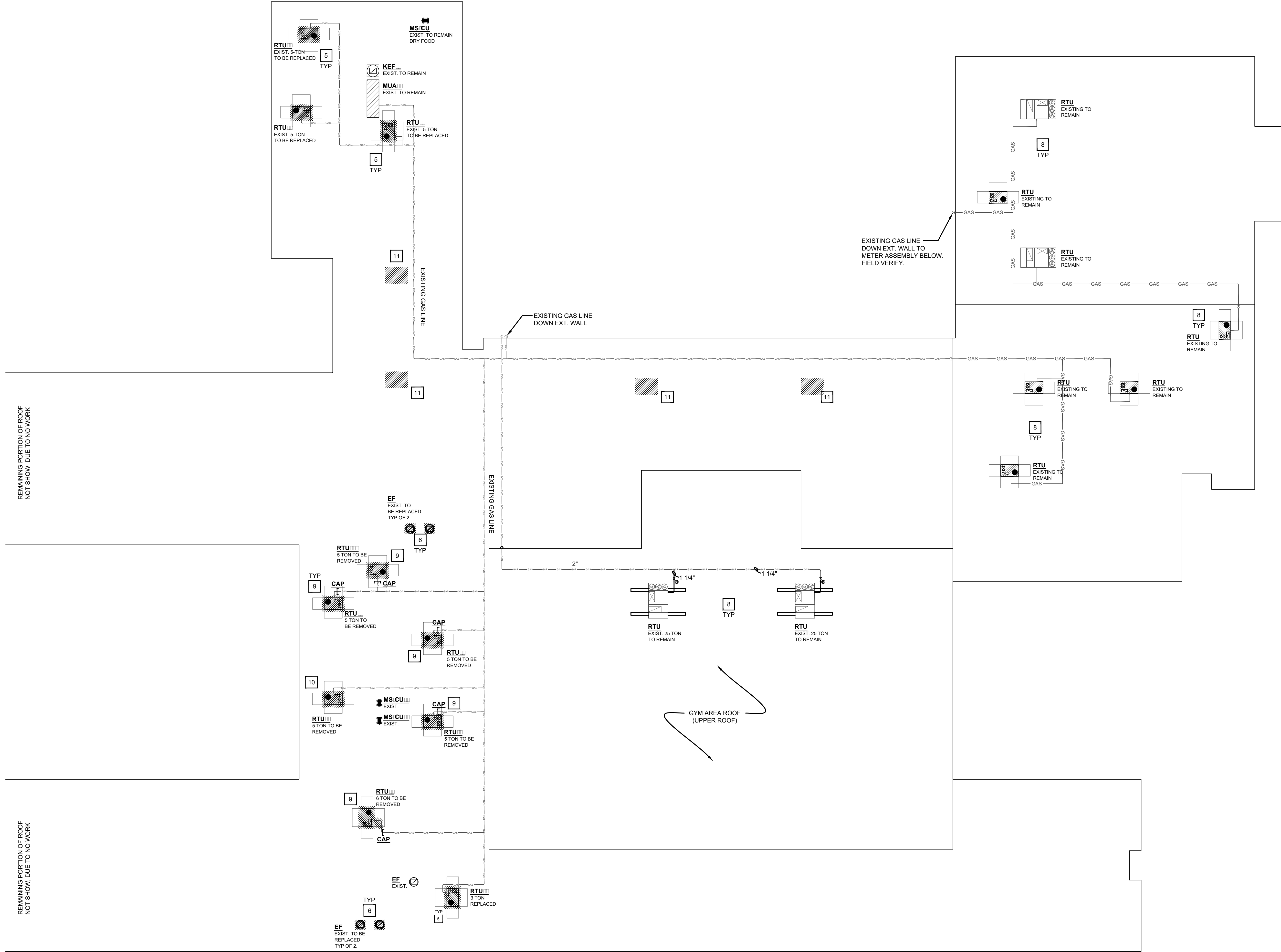
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MECHANICAL  
UADRANT 4

M.04

MECHANICAL

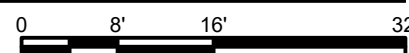




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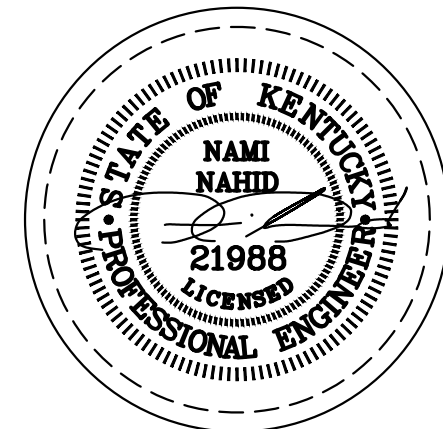
# MECHANICAL - EXISTING ROOF PLAN - DEMO

SCALE: 1/16"=1'-0"



## DEMO NOTES:

- EXISTING UNIT VENTILATOR (UV) AND ABOVE CEILING DUCTED FAN COIL UNITS (FCU) TO BE REPLACED WITH NEW EQUIPMENT. RECONNECT TO EXISTING PIPING, DUCTWORK, POWER, CONDENSATE, ETC (TYPICAL). COORDINATE WITH ELECTRICAL AND MANUFACTURER, AS REQUIRED, FOR EQUIPMENT ORIENTATION. FIELD VERIFY ALL EXISTING 'UV' AND 'FCU' EQUIPMENT PLACEMENT. SEE SCHEDULE AND NEW PLAN FOR ADDITIONAL INFORMATION. EXISTING LOUVERS TO BE REMOVED, CLEANED, AND REINSTALLED (WATER TIGHT). PAINT EXISTING LOUVERS. ARCH TO VERIFY COLOR.
- REMOVE EXISTING FAN COIL UNITS WITH ASSOCIATED PIPING, POWER, HANGERS, SUPPORTS, ETC. REWORK POWER, AS REQUIRED, FOR NEW EQUIPMENT, COORDINATE WITH ELECT. CAP ALL REMOVED PIPING BACK TO MAINS, TYPICAL. REMOVE ASSOCIATED DUCTWORK, AS REQUIRED, FOR NEW INSTALL OF EQUIPMENT. FIELD VERIFY EXISTING CONDITIONS.
- REMOVE EXISTING UNIT VENTILATORS IN CAFETERIA, IN THEIR ENTIRETY, TO INCLUDE POWER, PIPING, PIPE CHASE, ETC. CAP ALL PIPING ABOVE CEILING. COORDINATE WITH ELECTRICAL AS REQUIRED. PROVIDE AND INSTALL INSULATED METAL PANEL TO SEAL OPENING, ON INTERIOR. PAINT INTERIOR OF PANEL, AS REQUIRED, FOR NEW CAFETERIA.
- DISCONNECT AND REMOVE EXISTING CEILING DEVICES FROM GRID. CAP DUCTWORK, AS REQUIRED. ALL EXISTING DUCTWORK TO BE FIELD VERIFIED. REMOVE EXISTING DUCTWORK (AS NEEDED) FOR NEW INSTALL OF BOTH VRV EQUIPMENT AND OUTSIDE AIR DUCT FOR LIBRARY AND ADJACENT OFFICE SPACE. SEE NEW PLAN.
- REPLACE EXISTING ROOFTOP UNIT WITH NEW. SEE SCHEDULE AND ROOF PLAN. RECONNECT POWER, DUCTWORK, ETC. PROVIDE TRANSITION TO EXISTING DUCT, AS REQUIRED (FIELD VERIFY DUCT SIZE). COORDINATE WITH ELECTRICAL. PROVIDE ADAPTOR CURB FOR NEW INSTALL AND COORDINATE WITH ROOFING CONTRACTOR FOR WATER TIGHT SEAL.
- REMOVE AND REPLACE EXISTING TOILET AND LOCKER ROOM EXHAUST FANS AND PREPARE FOR NEW.
- REMOVE EXISTING LOCKER ROOM SPLIT SYSTEM IN ITS ENTIRETY, TO INCLUDE, REF PIPING, DUCTWORK, CONTROLS, ETC. COORDINATE WITH OTHER TRADES, AS REQUIRED.
- REMOVE EXISTING T-STAT CONTROLS AND PREPARE FOR NEW. SEE SCHEDULE FOR ADDITIONAL INFORMATION.
- REMOVE EXISTING ROOF TOP UNITS (RTU) AND CAP EXISTING CURBS (TYP). CAP EXISTING GAS LINE, AS REQUIRED. REMOVE ASSOCIATED DUCTWORK BELOW ROOF, AS NEEDED, FOR NEW INSTALL OF EQUIPMENT.
- REMOVE EXISTING RTU AND PREPARE FOR NEW OUTSIDE AIR UNIT. PROVIDE ADAPTOR CURB AND COORDINATE WITH ELECTRICAL. SEE NEW PLAN.
- PREPARE ROOF FOR NEW RTU CURB LOCATION. COORDINATE WITH MFR FOR EXACT SIZE. FIELD VERIFY EXISTING CONDITIONS BELOW ROOF LINE. EXISTING GAS LINE SHALL BE PREPARED FOR NEW RTU CONNECTION. SEE NEW PLAN.



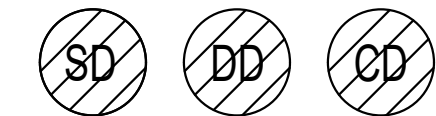
DESIGN PROFESSIONAL



PLAN REVIEWER

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|      |                        |
|------|------------------------|
| BY   | ACE                    |
| DATE | 02/18/2021             |
| SET  | CONSTRUCTION DOCUMENTS |



| REVISION | DESCRIPTION                   |
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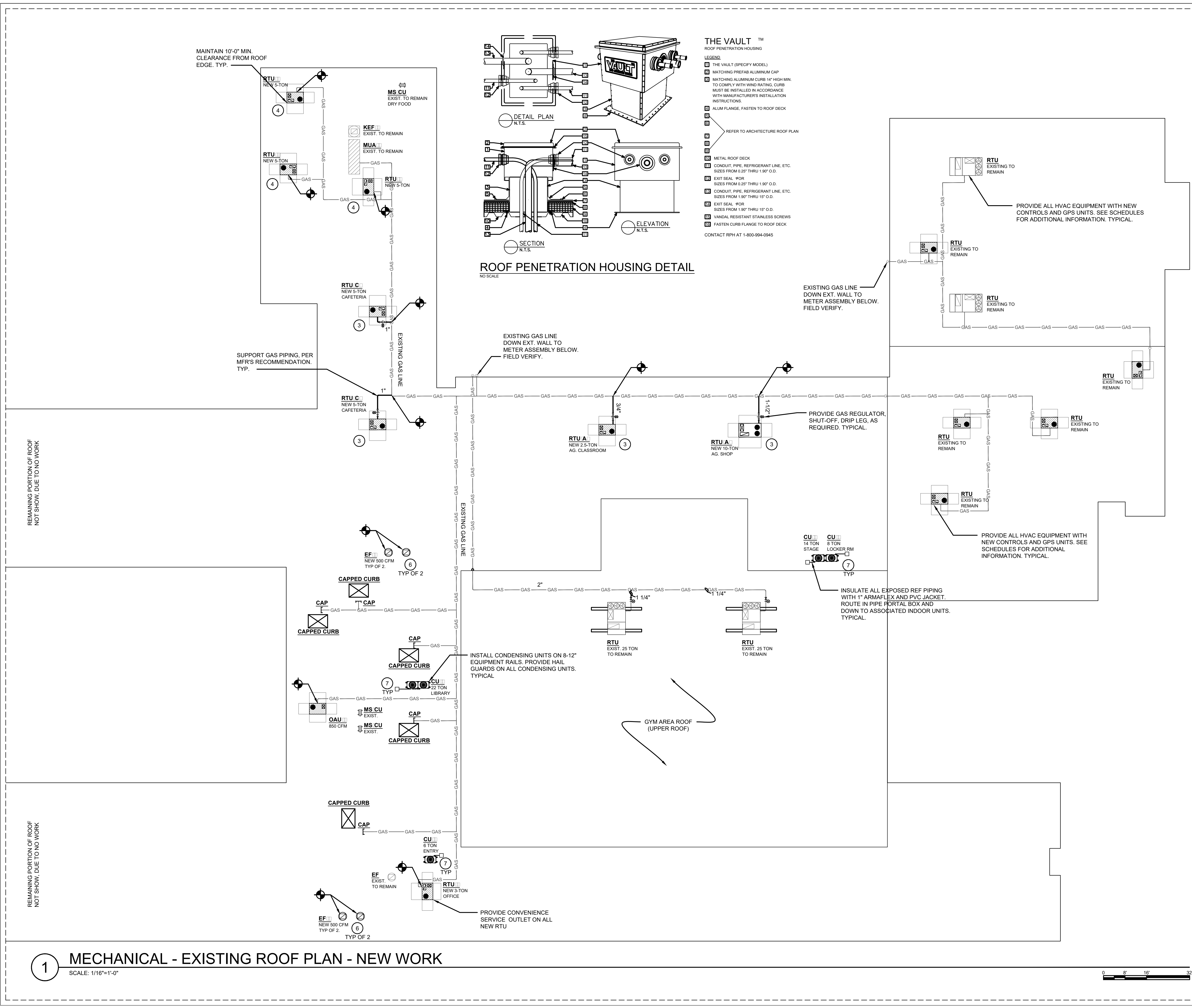
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MECHANICAL  
ROOF PLAN - DEMO

# M4.01

MECHANICAL





NEW WORK NOTES:

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2. INSTALL NEW HORIZONTAL FAN COIL UNIT (ABOVE CEILING) AND CONNECT TO EXISTING SUPPLY AND RETURN DUCTWORK. FIELD VERIFY EXISTING CONDITIONS, ABOVE CEILING. TRANSITION DUCTWORK, AS REQUIRED, TO CONNECT TO EQUIPMENT. COORDINATE WITH ELECTRICAL FOR COMPLETE INSTALL. TYPICAL.

3. INSTALL NEW ROOF TOP UNITS, WITH CURBS, AT BOTH CAFETERIA AND AG SHOP LOCATIONS. COORDINATE WITH ROOFING CONTRACTOR FOR FLASHING AND INSTALL. ROUTE DUCTWORK DOWN TO CONCENTRIC DIFFUSER IN CEILING SPACE. COORDINATE WITH MFR, AS REQUIRED FOR INSTALL. FIELD VERIFY EXISTING STRUCTURAL BEAM LOCATIONS BEFORE EXACT PLACEMENT. PROVIDE WALL MOUNTED T-STAT FOR EACH RTU. SEE CONTROLS SCHEDULE AND SPECS. PROVIDE AND CONNECT TO EXISTING GAS LINE ON ROOF. PROVIDE REGULATOR, SHUT-OFF, DRIP LEG, ETC. SEE ROOF PLAN.

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STATE OF KENTUCKY  
NAMI NAHID  
21988  
PROFESSIONAL ENGINEER

DESIGN PROFESSIONAL

SKY  
ENGINEERING  
MECHANICAL - ELECTRICAL - PLUMBING  
DO JUSTLY, LOVE MERCY AND WALK HUMBL  
100 EAST 5TH STREET, SUITE 100  
BOWLING GREEN, KY 42404  
270-999-0182

PLAN REVIEWER

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BY ACE

DATE 02/18/2021

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ARCHITECTS  
Somerse, Kentucky  
(606)687 - 9233  
www.decoarchitects.co  
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MECHANICAL  
ROOF PLAN NE ORK

M4.02

MECHANICAL



| Name    | FCU        | Cooling                 |                |                |                 |                |             |              |                 |
|---------|------------|-------------------------|----------------|----------------|-----------------|----------------|-------------|--------------|-----------------|
|         |            | Tmp C<br>°F<br>(DBT/RH) | Rq TC<br>BTU/h | Rv TC<br>BTU/h | Max TC<br>BTU/h | Rq SC<br>BTU/h | Tevap<br>°F | Tdis C<br>°F | Max SC<br>BTU/h |
| IU-1-4B | FXFQ24TVJU | 72.0/55%                | n/a            | 0              | 19,351          | n/a            | 42.8        | 53.5         | 15,815          |
| IU-1-3B | FXFQ24TVJU | 72.0/55%                | n/a            | 0              | 19,351          | n/a            | 42.8        | 53.5         | 15,815          |
| IU-1-2  | FXFQ12TVJU | 72.0/55%                | n/a            | 0              | 9,663           | n/a            | 42.8        | 56.3         | 7,500           |
| IU-1-1  | FXFQ12TVJU | 72.0/55%                | n/a            | 0              | 9,663           | n/a            | 42.8        | 56.3         | 7,500           |
| IU-1-3A | FXFQ24TVJU | 72.0/55%                | n/a            | 0              | 19,351          | n/a            | 42.8        | 53.5         | 15,815          |
| IU-1-4A | FXFQ24TVJU | 72.0/55%                | n/a            | 0              | 19,351          | n/a            | 42.8        | 53.5         | 15,815          |
| IU-1-7  | FXFQ09TVJU | 72.0/55%                | n/a            | 0              | 7,646           | n/a            | 42.8        | 57.8         | 6,810           |
| IU-1-5  | FXFQ12TVJU | 72.0/55%                | n/a            | 0              | 9,663           | n/a            | 42.8        | 56.3         | 7,500           |
| IU-1-6  | FXFQ09TVJU | 72.0/55%                | n/a            | 0              | 7,646           | n/a            | 42.8        | 57.8         | 6,810           |
| IU- 11  | FXFQ09TVJU | 72.0/55%                | n/a            | 0              | 7,646           | n/a            | 42.8        | 57.8         | 6,810           |
| IU- 13  | FXFQ12TVJU | 72.0/55%                | n/a            | 0              | 9,663           | n/a            | 42.8        | 56.3         | 7,500           |
| IU- 10  | FXFQ09TVJU | 72.0/55%                | n/a            | 0              | 7,646           | n/a            | 42.8        | 57.8         | 6,810           |
| IU- 9   | FXFQ09TVJU | 72.0/55%                | n/a            | 0              | 7,646           | n/a            | 42.8        | 57.8         | 6,810           |
| IU- 12  | FXFQ09TVJU | 72.0/55%                | n/a            | 0              | 7,646           | n/a            | 42.8        | 57.8         | 6,810           |
| IU- 8   | FXFQ09TVJU | 72.0/55%                | n/a            | 0              | 7,646           | n/a            | 42.8        | 57.8         | 6,810           |

| Name    | FCU        | Heating     |                |                 |              |                 |                 |                      |
|---------|------------|-------------|----------------|-----------------|--------------|-----------------|-----------------|----------------------|
|         |            | Tmp H<br>°F | Rq HC<br>BTU/h | Max HC<br>BTU/h | Tdis H<br>°F | Min coil<br>in³ | Max coil<br>in³ | Air Flow Rate<br>cfm |
| IU-1-4B | FXFQ24TVJU | 68.0        | n/a            | 28,014          | 100.8        | n/a             | n/a             | 777                  |
| IU-1-3B | FXFQ24TVJU | 68.0        | n/a            | 28,014          | 100.8        | n/a             | n/a             | 777                  |
| IU-1-2  | FXFQ12TVJU | 68.0        | n/a            | 13,990          | 97.2         | n/a             | n/a             | 436                  |
| IU-1-1  | FXFQ12TVJU | 68.0        | n/a            | 13,990          | 97.2         | n/a             | n/a             | 436                  |
| IU-1-3A | FXFQ24TVJU | 68.0        | n/a            | 28,014          | 100.8        | n/a             | n/a             | 777                  |
| IU-1-4A | FXFQ24TVJU | 68.0        | n/a            | 28,014          | 100.8        | n/a             | n/a             | 777                  |
| IU-1-7  | FXFQ09TVJU | 68.0        | n/a            | 10,885          | 90.7         | n/a             | n/a             | 436                  |
| IU-1-5  | FXFQ12TVJU | 68.0        | n/a            | 13,990          | 97.2         | n/a             | n/a             | 436                  |
| IU-1-6  | FXFQ09TVJU | 68.0        | n/a            | 10,885          | 90.7         | n/a             | n/a             | 436                  |
| IU- 11  | FXFQ09TVJU | 68.0        | n/a            | 10,885          | 90.7         | n/a             | n/a             | 436                  |
| IU- 13  | FXFQ12TVJU | 68.0        | n/a            | 13,990          | 97.2         | n/a             | n/a             | 436                  |
| IU- 10  | FXFQ09TVJU | 68.0        | n/a            | 10,885          | 90.7         | n/a             | n/a             | 436                  |
| IU- 9   | FXFQ09TVJU | 68.0        | n/a            | 10,885          | 90.7         | n/a             | n/a             | 436                  |
| IU- 12  | FXFQ09TVJU | 68.0        | n/a            | 10,885          | 90.7         | n/a             | n/a             | 436                  |
| IU- 8   | FXFQ09TVJU | 68.0        | n/a            | 10,885          | 90.7         | n/a             | n/a             | 436                  |

| Name    | Room | Sound   | PS              | MCA | MOP  | WxHxD                | Weight |
|---------|------|---------|-----------------|-----|------|----------------------|--------|
|         |      | dBA     |                 | A   |      | inch                 | lbs    |
| IU-1-4B |      | 28 - 36 | 208-230V<br>1ph | 0.7 | 15 A | 33.1 x 9.7 x<br>33.1 | 50.7   |
| IU-1-3B |      | 28 - 36 | 208-230V<br>1ph | 0.7 | 15 A | 33.1 x 9.7 x<br>33.1 | 50.7   |
| IU-1-2  |      | 27 - 30 | 208-230V<br>1ph | 0.3 | 15 A | 33.1 x 9.7 x<br>33.1 | 41.9   |
| IU-1-1  |      | 27 - 30 | 208-230V<br>1ph | 0.3 | 15 A | 33.1 x 9.7 x<br>33.1 | 41.9   |
| IU-1-3A |      | 28 - 36 | 208-230V<br>1ph | 0.7 | 15 A | 33.1 x 9.7 x<br>33.1 | 50.7   |
| IU-1-4A |      | 28 - 36 | 208-230V<br>1ph | 0.7 | 15 A | 33.1 x 9.7 x<br>33.1 | 50.7   |
| IU-1-7  |      | 27 - 30 | 208-230V<br>1ph | 0.3 | 15 A | 33.1 x 9.7 x<br>33.1 | 41.9   |
| IU-1-5  |      | 27 - 30 | 208-230V<br>1ph | 0.3 | 15 A | 33.1 x 9.7 x<br>33.1 | 41.9   |
| IU-1-6  |      | 27 - 30 | 208-230V<br>1ph | 0.3 | 15 A | 33.1 x 9.7 x<br>33.1 | 41.9   |
| IU- 11  |      | 27 - 30 | 208-230V<br>1ph | 0.3 | 15 A | 33.1 x 9.7 x<br>33.1 | 41.9   |
| IU- 13  |      | 27 - 30 | 208-230V<br>1ph | 0.3 | 15 A | 33.1 x 9.7 x<br>33.1 | 41.9   |
| IU- 10  |      | 27 - 30 | 208-230V<br>1ph | 0.3 | 15 A | 33.1 x 9.7 x<br>33.1 | 41.9   |
| IU- 9   |      | 27 - 30 | 208-230V<br>1ph | 0.3 | 15 A | 33.1 x 9.7 x<br>33.1 | 41.9   |
| IU- 12  |      | 27 - 30 | 208-230V<br>1ph | 0.3 | 15 A | 33.1 x 9.7 x<br>33.1 | 41.9   |
| IU- 8   |      | 27 - 30 | 208-230V<br>1ph | 0.3 | 15 A | 33.1 x 9.7 x<br>33.1 | 41.9   |

## INDOOR UNIT SCHEDULE (CU-1 - LIBRARY)

NOT TO SCALE

| Name   | FCU        | Cooling                 |                |                |                 |                |            |                 |
|--------|------------|-------------------------|----------------|----------------|-----------------|----------------|------------|-----------------|
|        |            | Tmp C<br>°F<br>(DBT/RH) | Rq TC<br>BTU/h | Rv TC<br>BTU/h | Max TC<br>BTU/h | Rq SC<br>BTU/h | Temp<br>°F | Max SC<br>BTU/h |
| IU-4-1 | FXFQ24TVJU | 72.0/55%                | n/a            | 0              | 19,351          | n/a            | 42.8       | 15,815          |
| IU-4-2 | FXFQ36TVJU | 72.0/55%                | n/a            | 0              | 28,956          | n/a            | 42.8       | 22,399          |
| IU-4-3 | FXAQ12PVJU | 72.0/55%                | n/a            | 0              | 9,669           | n/a            | 42.8       | 7,268           |

| Name   | FCU        | Heating     |                |                 |              |                 |                 |                      |
|--------|------------|-------------|----------------|-----------------|--------------|-----------------|-----------------|----------------------|
|        |            | Tmp H<br>°F | Rq HC<br>BTU/h | Max HC<br>BTU/h | Tdis H<br>°F | Min coil<br>in³ | Max coil<br>in³ | Air Flow Rate<br>cfm |
| IU-4-1 | FXFQ24TVJU | 70.0        | n/a            | 26,989          | 101.6        | n/a             | n/a             | 777                  |
| IU-4-2 | FXFQ36TVJU | 70.0        | n/a            | 39,989          | 101.3        | n/a             | n/a             | 1,165                |
| IU-4-3 | FXAQ12PVJU | 70.0        | n/a            | 13,499          | 112.4        | n/a             | n/a             | 290                  |

| Name   | Room       | Sound   | PS              | MCA | MOP  | WxHxD                 | Weight |
|--------|------------|---------|-----------------|-----|------|-----------------------|--------|
|        |            | dBA     |                 | A   |      | inch                  | lbs    |
| IU-4-1 | ENTRY      | 28 - 36 | 208-230V<br>1ph | 0.7 | 15 A | 33.1 x 9.7 x<br>33.1  | 50.7   |
| IU-4-2 | LOBBY      | 32 - 44 | 208-230V<br>1ph | 1.5 | 15 A | 33.1 x 11.3 x<br>33.1 | 57.3   |
| IU-4-3 | CONCESSION | 31 - 38 | 208-230V<br>1ph | 0.4 | 15A  | 31.3 x 11.4 x<br>9.3  | 26.5   |

## INDOOR UNIT SCHEDULE (CU-4 - ENTRY)

NOT TO SCALE

| Name   | FCU         | Cooling                 |                |                |                 |                |            |                 |
|--------|-------------|-------------------------|----------------|----------------|-----------------|----------------|------------|-----------------|
|        |             | Tmp C<br>°F<br>(DBT/RH) | Rq TC<br>BTU/h | Rv TC<br>BTU/h | Max TC<br>BTU/h | Rq SC<br>BTU/h | Temp<br>°F | Max SC<br>BTU/h |
| IU-2-1 | FXFQ24TVJU  | 75.0/55%                | n/a            | 0              | 21,421          | n/a            | 42.8       | 16,117          |
| IU-2-2 | FXZQ09TAVJU | 75.0/55%                | n/a            | 0              | 8,513           | n/a            | 42.8       | 5,669           |
| IU-2-3 | FXZQ09TAVJU | 75.0/55%                | n/a            | 0              | 8,513           | n/a            | 42.8       | 5,669           |
| IU-2-4 | FXZQ09TAVJU | 75.0/55%                | n/a            | 0              | 8,513           | n/a            | 42.8       | 5,669           |
| IU-2-5 | FXAQ24PVJU  | 75.0/55%                | n/a            | 0              | 21,456          | n/a            | 42.8       | 14,431          |
| IU-2-6 | FXAQ24PVJU  | 75.0/55%                | n/a            | 0              | 21,456          | n/a            | 42.8       | 14,431          |
| IU-2-7 | FXFQ24TVJU  | 75.0/55%                | n/a            | 0              | 21,421          | n/a            | 42.8       | 16,117          |

| Name   | FCU         | Heating     |                |                 |              |                 |                 |                      |
|--------|-------------|-------------|----------------|-----------------|--------------|-----------------|-----------------|----------------------|
|        |             | Tmp H<br>°F | Rq HC<br>BTU/h | Max HC<br>BTU/h | Tdis H<br>°F | Min coil<br>in³ | Max coil<br>in³ | Air Flow Rate<br>cfm |
| IU-2-1 | FXFQ24TVJU  | 68.0        | n/a            | 28,014          | 100.8        | n/a             | n/a             | 777                  |
| IU-2-2 | FXZQ09TAVJU | 68.0        | n/a            | 10,919          | 99.3         | n/a             | n/a             | 317                  |
| IU-2-3 | FXZQ09TAVJU | 68.0        | n/a            | 10,919          | 99.3         | n/a             | n/a             | 317                  |
| IU-2-4 | FXZQ09TAVJU | 68.0        | n/a            | 10,919          | 99.3         | n/a             | n/a             | 317                  |
| IU-2-5 | FXAQ24PVJU  | 68.0        | n/a            | 27,500          | 107.4        | n/a             | n/a             | 635                  |
| IU-2-6 | FXAQ24PVJU  | 68.0        | n/a            | 27,500          | 107.4        | n/a             | n/a             | 635                  |
| IU-2-7 | FXFQ24TVJU  | 68.0        | n/a            | 28,014          | 100.8        | n/a             | n/a             | 777                  |

| Name   | Room | Sound   | PS              | MCA | MOP  | WxHxD                 | Weight |
|--------|------|---------|-----------------|-----|------|-----------------------|--------|
|        |      | dBA     |                 | A   |      | inch                  | lbs    |
| IU-2-1 |      | 28 - 36 | 208-230V<br>1ph | 0.7 | 15 A | 33.1 x 9.7 x<br>33.1  | 50.7   |
| IU-2-2 |      | 26 - 33 | 208-230V<br>1ph | 0.3 | 15A  | 22.6 x 10.2 x<br>22.6 | 35.3   |
| IU-2-3 |      | 26 - 33 | 208-230V<br>1ph | 0.3 | 15A  | 22.6 x 10.2 x<br>22.6 | 35.3   |
| IU-2-4 |      | 26 - 33 | 208-230V<br>1ph | 0.3 | 15A  | 22.6 x 10.2 x<br>22.6 | 35.3   |
| IU-2-5 |      | 41 - 47 | 208-230V<br>1ph | 0.6 | 15A  | 41.4 x 11.4 x<br>9.3  | 30.9   |
| IU-2-6 |      | 41 - 47 | 208-230V<br>1ph | 0.6 | 15A  | 41.4 x 11.4 x<br>9.3  | 30.9   |
| IU-2-7 |      | 28 - 36 | 208-230V<br>1ph | 0.7 | 15 A | 33.1 x 9.7 x<br>33.1  | 50.7   |

## INDOOR UNIT SCHEDULE (CU-2 - STAGE)

NOT TO SCALE

| Name    | FCU        | Cooling                 |                |                |                 |                |            |                 |
|---------|------------|-------------------------|----------------|----------------|-----------------|----------------|------------|-----------------|
|         |            | Tmp C<br>°F<br>(DBT/RH) | Rq TC<br>BTU/h | Rv TC<br>BTU/h | Max TC<br>BTU/h | Rq SC<br>BTU/h | Temp<br>°F | Max SC<br>BTU/h |
| IU- 3-1 | FXAQ18PVJU | 72.0/55%                | n/a            | 0              | 14,467          | n/a            | 42.8       | 10,817          |
| IU-3-2  | FXAQ18PVJU | 72.0/55%                | n/a            | 0              | 14,467          | n/a            | 42.8       | 10,817          |
| IU-3-3  | FXAQ24PVJU | 72.0/55%                | n/a            | 0              | 19,266          | n/a            | 42.8       | 14,165          |
| IU-3-4  | FXAQ09PVJU | 72.0/55%                | n/a            | 0              | 7,641           | n/a            | 42.8       | 5,991           |
| IU-3-5  | FXAQ12PVJU | 72.0/55%                | n/a            | 0              | 9,669           | n/a            | 42.8       | 7,268           |

| Name    | FCU        | Heating     |                |                 |              |                 |                 |                      |
|---------|------------|-------------|----------------|-----------------|--------------|-----------------|-----------------|----------------------|
|         |            | Tmp H<br>°F | Rq HC<br>BTU/h | Max HC<br>BTU/h | Tdis H<br>°F | Min coil<br>in³ | Max coil<br>in³ | Air Flow Rate<br>cfm |
| IU- 3-1 | FXAQ18PVJU | 70.0        | n/a            | 19,999          | 106.4        | n/a             | n/a             | 500                  |
| IU-3-2  | FXAQ18PVJU | 70.0        | n/a            | 19,999          | 106.4        | n/a             | n/a             | 500                  |
| IU-3-3  | FXAQ24PVJU | 70.0        | n/a            | 26,499          | 108.0        | n/a             | n/a             | 635                  |
| IU-3-4  | FXAQ09PVJU | 70.0        | n/a            | 10,500          | 104.1        | n/a             | n/a             | 280                  |
| IU-3-5  | FXAQ12PVJU | 70.0        | n/a            | 13,499          | 112.4        | n/a             | n/a             | 290                  |

| Name    | Room      | Sound   | PS              | MCA | MOP | WxHxD                | Weight |
|---------|-----------|---------|-----------------|-----|-----|----------------------|--------|
|         |           | dBA     |                 | A   |     | inch                 | lbs    |
| IU- 3-1 | LOCKER RM | 37 - 43 | 208-230V<br>1ph | 0.4 | 15A | 41.3 x 11.4 x<br>9.3 | 30.9   |
| IU-3-2  | LOCKER RM | 37 - 43 | 208-230V<br>1ph | 0.4 | 15A | 41.3 x 11.4 x<br>9.3 | 30.9   |
| IU-3-3  | LOCKER RM | 41 - 47 | 208-230V<br>1ph | 0.6 | 15A | 41.4 x 11.4 x<br>9.3 | 30.9   |
| IU-3-4  | LOCKER RM | 31 - 37 | 208-230V<br>1ph | 0.3 | 15A | 31.3 x 11.4 x<br>9.3 | 26.5   |
| IU-3-5  | LOCKER RM | 31 - 38 | 208-230V<br>1ph | 0.4 | 15A | 31.3 x 11.4 x<br>9.3 | 26.5   |

## INDOOR UNIT SCHEDULE (CU-3 - LOCKERS)

NOT TO SCALE

| <b>EXHAUST FAN SCHEDULE</b> |                   |                     |
|-----------------------------|-------------------|---------------------|
| UNIT TAG                    | EF-1              | EF-2                |
| MANUFACTURER                | GREENHECK         | GREENHECK           |
| MODEL                       | G-090-VG          | CW-095-VG           |
| LOCATION                    | RENO TOILETS      | LOCKER RM.          |
| QUANTITY                    | 4                 | 2                   |
| CFM                         | 500 @ 0.5" STATIC | 500 @ 0.125" STATIC |
| ELECTRICAL                  | 115/60/1          | 115/60/1            |
| AMPS                        | 1.38              | --                  |
| SIZE HP                     | 1/10              | 1/6                 |
| FAN RPM                     | 1601              | 1550                |
| NOTES:                      | 1,2,3,4           | 2,5,6               |

**NOTES:**  
1. NEW EXHAUST FANS SHALL BE TIED TO CONTROLS FOR SCHEDULING  
2. PROVIDE BACKDRAFT DAMPER ON FANS.  
3. COORDINATE WITH LIGHTING AND NEW 2X2 CEILING  
4. PROVIDE ADAPTOR CURB, AS REQUIRED, FOR MOUNTING OF NEW EXHAUST FAN.  
5. TIE EXHAUST FAN PILOT LIGHT SWITCH  
6. SEAL EXISTING SIDEWALL OPENING, AS REQUIRED, WATER TIGHT.  
\*\*\*OTHER ACCEPTABLE MFR'S: COOK AND PENNBARRY

| Name  | Model        | CR    | Cooling     |             |                | Heating                 |             |                | Piping |
|-------|--------------|-------|-------------|-------------|----------------|-------------------------|-------------|----------------|--------|
|       |              | %     | Tmp C<br>°F | CC<br>BTU/h | Rq CC<br>BTU/h | Tmp H<br>°F<br>(DBT/RH) | HC<br>BTU/h | Rq HC<br>BTU/h | ft     |
| CU- 1 | RXYQ264TAYDA | 79.7  | 95.0        | 203,270     | 118,707        | 4.0/55%                 | 175,715     | 170,945        | 24.6   |
| CU- 2 | RXYQ168XAYDA | 74.1  | 95.0        | 145,812     | 77,904         | 4.0/55%                 | 103,048     | 100,649        | 24.6   |
| CU- 3 | RXYQ96XAYDA  | 84.9  | 95.0        | 73,516      | 45,857         | 4.0/55%                 | 72,548      | 63,348         | 24.6   |
| CU-4  | RXYQ72XATJA  | 100.0 | 95.0        | 55,058      | 40,584         | 4.0/55%                 | 59,553      | 56,334         | 24.6   |

| Name  | Model        | PS              | MCA<br>A | MOP<br>A | RLA<br>A | FLA<br>A | WxHxD<br>inch      | Weight<br>lbs |
|-------|--------------|-----------------|----------|----------|----------|----------|--------------------|---------------|
| CU- 1 | RXYQ264TAYDA | 460V 3ph        |          |          |          |          |                    |               |
| A     | -            |                 | 25.9     | 35.0     | 15.2     |          | 48.9 x 66.7 x 30.2 | 709.9         |
| B     | RXYQ144TAYDA |                 | 20.6     | 25.0     | 11.7     |          | 48.9 x 66.7 x 30.2 | 555.6         |
|       | RXYQ120TAYDA |                 |          |          |          |          |                    |               |
| CU-2  | RXYQ168XAYDA | 460V 3ph        | 25.9     | 35.0     | 17.0     |          | 48.9 x 66.7 x 30.2 | 709.9         |
| CU- 3 | RXYQ56XAYDA  | 460V 3ph        | 20.6     | 25.0     | 10.2     |          | 48.9 x 66.7 x 30.2 | 553.4         |
| CU-4  | RXYQ72XATJA  | 208V - 230V 3ph | 27.6     | 35.0     | 15.7     |          | 36.7 x 66.7 x 30.2 | 436.5         |



ROOF TOP UNIT SCHEDULE

| UNIT TAG                 | RTU-1, 2, 3                          | RTU-5                                | RTU-A1                               | RTU-A2                                | RTU-C1, C2                           | OAU-1  |
|--------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|--|
| MAKE                     | DAIKIN                               | DAIKIN                               | DAIKIN                               | DAIKIN                                | DAIKIN                               | DAIKIN   |
| GENERAL LOCATION         | KTICHEN REPLACEMENT                  | OFFICE REPLACEMENT                   | AG CLASSROOM                         | AG SHOP                               | CAFETERIA                            | LIBRARY  |
| MODEL                    | MPSA05D                              | MPSA03D                              | MPSA03D                              | MPSA10D                               | MPSA05D                              | DPS006A  |
| STAGES                   | 1                                    | 1                                    | 1                                    | 2                                     | 1                                    |  |
| TYPE                     | 5-TON PACKAGE RTU VERTICAL DISCHARGE | 3-TON PACKAGE RTU VERTICAL DISCHARGE | 3-TON PACKAGE RTU VERTICAL DISCHARGE | 10-TON PACKAGE RTU VERTICAL DISCHARGE | 5-TON PACKAGE RTU VERTICAL DISCHARGE | 100% OUTSIDE AIRPACKAGE RTU VERTICAL DISCHARGE |
| VOLTAGE                  | 208V/3PH/60                          | 460/60/3                             | 460/60/3                             | 460/60/3                              | 208V/60/3                            | 460/60/3                                       |
| MCA (A)                  | 34                                   | 10                                   | 10                                   | 34                                    | 34                                   | 10.8   |
| MOP (A)                  | 45                                   | 15                                   | 15                                   | 45                                    | 45                                   | 15   |
| EER / SEER               | 11.2 / 14                            | 11.2/14.0                            | 11.2/14.0                            | 11.0/12.7                             | 11.2 / 14                            | 11.3/---                                       |
| AIRFLOW (CFM)            | 2,000                                | 1,175                                | 1,175                                | 5,000                                 | 2,000                                | 850  |
| ESP (in. H2O)            | 1.1                                  | 1.5                                  | 1.5                                  | 0.25                                  | 1.1                                  | 0.8  |
| MOTOR SIZE (HP)          | 1                                    | 1                                    | 1                                    | 3                                     | 1                                    | 1.3  |
| TOTAL CAPACITY (COOLING) | 55,666                               | 34,853                               | 34,853                               | 124,352                               | 55,666                               | 72,203   |
| SENSIBLE CAPACITY        | 36,047                               | 26,721                               | 26,721                               | 111,905                               | 36,047                               | 38,245   |
| REFRIGERANT              | R410a                                | R410a                                | R410a                                | R410a                                 | R410a                                | R410a  |
| COMPRESSOR TYPE          | ON / OFF                             | ON / OFF                             | ON / OFF                             | ON / OFF, 2 STEP                      | ON / OFF                             | VARIABLE SPEED                                 |
| HEATING TYPE             | NATURAL GAS                          | NATURAL GAS                          | NATURAL GAS                          | NATURAL GAS                           | NATURAL GAS                          | NATURAL GAS                                    |
| INPUT SIZE (BTU)         | 75,000                               | 75,000                               | 75,000                               | 150,000                               | 75,000                               | 80,000   |
| OUTPUT                   | 60,750                               | 60,750                               | 60,750                               | 121,500                               | 60,750                               | 64,000   |
| STAGES                   | 2                                    | 2                                    | 2                                    | 2                                     | 2                                    | 5:1 TURNDOWN MODULATING                        |
| EFFICIENCY               | 81%                                  | 81%                                  | 81%                                  | 81%                                   | 81%                                  | 80%  |
| HOT GAS REHEAT COIL      | YES                                  | YES                                  | YES                                  | NO                                    | YES                                  | YES  |
| CAPACITY                 | 8,973 BTU                            | 15455 BTU                            | 15455 BTU                            |                                       | 8,973 BTU                            | 14,892 BTU                                     |
| ACCESSORIES              | ECONOMIZER W/ SINGLE ENTHALPY        | ECONOMIZER W/ SINGLE ENTHALPY        | ECONOMIZER W/ SINGLE ENTHALPY        | ECONOMIZER W/ SINGLE ENTHALPY         | ECONOMIZER W/ SINGLE ENTHALPY        |  |
| NOTES                    | 1,2,3,4,5,7                          | 1,2,3,4,5,7                          | 1,2,3,4,5,6                          | 1,2,3,4,5,6                           | 1,2,3,4,5,6                          | 1,2,3,4,5,7                                    |
| WEIGHT (LBS)             | 715                                  | 623                                  | 623                                  | 1058                                  | 649                                  | 1346   |

NOTES:

1. PROVIDE WITH UNIT MOUNTED DISCONNECT  
2. 2" MERV 8 FILTER WITH HINGED ACCESS AT UNIT.  
3. PROVIDE WITH PROGRAMMABLE THERMOSTAT. SEE CONTROLS SCHEDULE FOR ADDITIONAL INFO.  
4. PROVIDE WITH HAIL GUARD  
5. PROVIDE DUCT SMOKE DETECTORS FOR ALL UNITS GREATER THAN 2000 CFM. INSTALL ON RETURN AIR SIDE. COORDINATE WITH ELECTRICAL.  
6. PROVIDE NEW ROOF CURB FOR RTU. COORDINATE WITH ROOFING CONTRACTOR FOR INSTALL. SEAL, WATER TIGHT.  
7. PROVIDE ADAPTOR CURB. AS REQUIRED, FOR COMPLETE INSTALL. FIELD VERIFY EXISTING CONDITIONS.

\*\*\*OTHER ACCEPTABLE MANUFACTURERS: MAMMOTH, VALENT

UNIT VENTILATOR (UV) AND FAN COIL UNIT (FCU) SCHEDULE (4-PIPE SYSTEM)

| UNIT TAG                    | UV-A                        | UV-B                        | UV-C                        | FCU-1                          | FCU-2                          |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------------|--------------------------------|
| MANUFACTURER                | DAIKIN                      | DAIKIN                      | DAIKIN                      | DAIKIN                         | DAIKIN                         |
| CABINET STYLE               | UNIT VENTILATOR             | UNIT VENTILATOR             | UNIT VENTILATOR             | ECONOMY HIDEAWAY (THC)         | ECONOMY HIDEAWAY (THC)         |
| MODEL TYPE                  | FACE & BYPASS, REHEAT       | FACE & BYPASS, REHEAT       | FACE & BYPASS, REHEAT       | 1-TON HORIZONTAL FAN COIL UNIT | 2-TON HORIZONTAL FAN COIL UNIT |
| MOUNTING                    | FLOOR                       | FLOOR                       | FLOOR                       | ABOVE CEILING - HORIZONTAL     | ABOVE CEILING - HORIZONTAL     |
| RETURN AIR LOCATION         | LOW FRONT                   | LOW FRONT                   | LOW FRONT                   | REAR                           | REAR                           |
| OUTLET LOCATION             | TOP GRILLED DISCHARGE       | TOP GRILLED DISCHARGE       | TOP GRILLED DISCHARGE       |                                |                                |
| OUTSIDE AIR LOCATION        | BACK OF UNIT                | BACK OF UNIT                | BACK OF UNIT                |                                |                                |
| OUTSIDE AIR DAMPER          | MOTORIZED OPEN/CLOSED       | MOTORIZED OPEN/CLOSED       | MOTORIZED OPEN/CLOSED       | EXISTING TO REMAIN             | EXISTING TO REMAIN             |
| OUTSIDE AIR POSITION        | SET TO OA CFM WHEN OPEN     | SET TO OA CFM WHEN OPEN     | SET TO OA CFM WHEN OPEN     |                                |                                |
| OUTSIDE AIR DAMPER          | RIGIT DOUBLE WALL INSULATED | RIGIT DOUBLE WALL INSULATED | RIGIT DOUBLE WALL INSULATED |                                |                                |
| CABINET INSULATION          | INTERNAL LINED              | INTERNAL LINED              | INTERNAL LINED              | INTERNAL LINED                 | INTERNAL LINED                 |
| HEATING / COOLING           | CHILLED / HOT WATER         | CHILLED / HOT WATER         | CHILLED / HOT WATER         | CHILLED / HOT WATER            | CHILLED / HOT WATER            |
| COOLING COIL                | 4 ROWS FACE / BYPASS        | 4 ROWS FACE / BYPASS        | 4 ROWS FACE / BYPASS        | 3 ROWS                         | 3 ROWS                         |
| HEATING COIL                | 2 ROWS                      | 2 ROWS                      | 2 ROWS                      | 1 ROW                          | 1 ROW                          |
| COIL POSITIONS              | COOLING COIL BEFORE HEATING | COOLING COIL BEFORE HEATING | COOLING COIL BEFORE HEATING | COOLING BEFORE HEATGIN         | COOLING BEFORE HEATGIN         |
| ELECTRICAL                  | 115 / 1 PHASE               | 115 / 1 PHASE               | 115 / 1 PHASE               | 115 / 1 PHASE                  | 115 / 1 PHASE                  |
| CONDENSATE DRAIN            | 7/8" CONNECTION             | 7/8" CONNECTION             | 7/8" CONNECTION             | 7/8" CONNECTION                | 7/8" CONNECTION                |
| PIPE CONNECTIONS            | REVIEW PLANS / SITE VERIFY  | REVIEW PLANS / SITE VERIFY  | REVIEW PLANS / SITE VERIFY  | REVIEW PLANS / SITE VERIFY     | REVIEW PLANS / SITE VERIFY     |
| MOTOR SPEED                 | 1/3 HP ECM MOTOR            | 1/3 HP ECM MOTOR            | 1/3 HP ECM MOTOR            | 1/12 HP ECM MOTOR              | 1/12 HP ECM MOTOR              |
| VENTING                     | MANUAL WITH DRAIN PLUG      | MANUAL WITH DRAIN PLUG      | MANUAL WITH DRAIN PLUG      | MANUAL DRAIN PLUG              | MANUAL DRAIN PLUG              |
| DRAIN PAN                   | STAINLESS STEEL             | STAINLESS STEEL             | STAINLESS STEEL             | STAINLESS STEEL                | STAINLESS STEEL                |
| FILTERS                     | 1" THROWAWAY                | 1" THROWAWAY                | 1" THROWAWAY                | 1" FILTERS                     | 1" FILTERS                     |
| AIR PURIFICATION            | GPS AIR PURIFICATION NOTE 3 | GPS AIR PURIFICATION NOTE 3 | GPS AIR PURIFICATION NOTE 3 | GPS PURIFICATION               | GPS PURIFICATION               |
| DISCONNECT SWITCH           | INTERNAL DISCONNECT         | INTERNAL DISCONNECT         | INTERNAL DISCONNECT         | INTERNAL DISCONNECT            | INTERNAL DISCONNECT            |
| UNIT SIZE                   | 1250 CFM                    | 1000 CFM                    | 750 CFM                     | 443 CFM                        | 750 CFM                        |
| COOLING EDB TEMP            | 80.00                       | 80.00                       | 80.00                       | 80                             | 80                             |
| COOLING EWB TEMP            | 67.00                       | 67.00                       | 67.00                       | 67                             | 67                             |
| CHILLED WATER ENT           | 45.00                       | 45.00                       | 45.00                       | 45                             | 42                             |
| TOTAL COOLING MBh           | 43.3                        | 35.6                        | 24.5                        | 13.2                           | 20.7                           |
| COOLING SENS MBh            | 28.7                        | 23.3                        | 15.3                        | 9.9                            | 15.9                           |
| COOLING WATER FLOW IN GPM   | 9                           | 7.5                         | 6                           | 3                              | 6                              |
| HEATING EDB TEMP            | 60.00                       | 60.00                       | 60.00                       | 70                             | 70                             |
| HEATING ENTERING WATER TEMP | 160                         | 160                         | 160                         | 180                            | 180                            |
| HEATING CAPACITY            | 40.5                        | 32.4                        | 24.3                        | 25.8                           | 28.5                           |
| HEATING WATER FLOW          | 5.0                         | 3.5                         | 2.5                         | 1.8                            | 2.6                            |
| MCA                         | 6.25                        | 6.25                        | 6.25                        | 2.2                            | 3.6                            |
| FUSE SIZE                   | 15                          | 15                          | 15                          | 15                             | 15                             |
| UNIT DIMENSIONS             | 86 X 22 X 30                | 74 X 22 X 30                | 62 X 22 X 30                | 46 X 24 X 10                   | 62 X 24 X 10                   |

Notes:

1. UL LISTED / AHRI CERTIFIED CHILLED WATER  
2. INSULATED UNIT BACK WITH BUILT IN PIPE TUNNEL  
3. INSTALL GPS AIR PURIFICATION ON DISCHARGE AIR TIED TO EQUIPMENT OPERATION  
4. DRAIN ROUTED TO EXTERIOR AND DISCHARGE AT GRADE  
5. UNIT WITH REMOTE THERMOSTAT AND INTERNAL BACnet CONTROLLER  
6. UNIT WITH CHILLED AND HOT WATER HOSE KITS  
7. CONTROL CONTRACTOR PROVIDE AND INSTALL BELIMO CONTROL VALVES.  
8. CHILLED WATER WITH 20% GLYCOL  
9. ALL NEW UV / FCU WITH ON BOARD BACnet CONTROL MODULE READY FOR CONTROL CONTRACTOR TO TIE INTO.

EXHAUST FAN SCHEDULE

| UNIT TAG     | EF-1              | EF-2                |
|--------------|-------------------|---------------------|
| MANUFACTURER | GREENHECK         | GREENHECK           |
| MODEL        | G-090-VG          | CWV-095-VG          |
| LOCATION     | RENO TOILETS      | LOCKER RM.          |
| QUANTITY     | 4                 | 2                   |
| CFM          | 500 @ 0.5" STATIC | 500 @ 0.125" STATIC |
| ELECTRICAL   | 115/60/1          | 115/60/1            |
| AMPS         | 1.38              | --                  |
| SIZE HP      | 1/10              | 1/6                 |
| FAN RPM      | 1601              | 1550                |
| NOTES:       | 1,2,3,4           | 2,5,6               |

NOTES:

1. NEW EXHAUST FANS SHALL BE TIED TO CONTROLS FOR SCHEDULING  
2. PROVIDE BACKDRAFT DAMPER ON FANS.  
3. COORDINATE WITH LIGHTING AND NEW 2X2 CEILING  
4. PROVIDE ADAPTOR CURB. AS REQUIRED, FOR MOUNTING OF NEW EXHAUST FAN.  
5. TIE EXHAUST FAN PILOT LIGHT SWITCH  
6. SEAL EXISTING SIDEWALL OPENING, AS REQUIRED, WATER TIGHT.  
\*\*\*OTHER ACCEPTABLE MFR'S: COOK AND PENNBARRY

GPS AIR PURIFICATION ADDITION

HVAC Equipment:

INSTALL A NEW GPS AIR PURIFICATION UNIT FOR ALL EXISTING AND NEW AIR HANDLING HVAC UNITS.  
GPS UNIT POWER NEED SHALL BE TIED TO AIR HANDLING UNIT POWER SOURCE. PROVIDE ANY SPLITTER / TRANSFORMER NEEDED TO PROVIDE POWER TO THESE NEW DEVICES.  
FIELD VERIFY ALL SCHOOLS AND AIR EQUIPMENT UNITS FOR SIZE AND LOCATION. PROVIDE GPS DEVICES TO MATCH THE EQUIPMENT.  
PROVIDE A HAND HELD IONIZATION METERING DEVICE FOR EACH SCHOOL FOR CHECKING OF GPS EQUIPMENT ACTIVATION.

GPS UNIT SCHEDULE (BIPOLAR IONIZATION)

| EQUIPMENT UNIT TYPE   | GPS MODEL   | RATED                  | WEIGHT (LBS)    |
|-----------------------|-------------|------------------------|-----------------|
| 3X3 CASSETTE          | GPS-FC      | 1,200 CFM NOMINAL      | 0.25 LBS        |
| 2X2 CASSETTE          | GSP-FC      | 1,200 CFM NOMINAL      | 0.25 LBS        |
| CONCEALED DUCTED      | GPS-FC      | 1,200 CFM NOMINAL      | 0.25 LBS        |
| CONCEALED DUCTED      | GPS-FC      | 1,200 CFM NOMINAL      | 0.25 LBS        |
| WALL MOUNTED          | GPS-IRIB-36 | COILS UP TO 48" LONG   | 0.5 LBS         |
| PACKAGE ROOFTOP UNITS | GPS-IMOD    | 0-4800 CFM (1-12 TON)  | 0.24 LBS PER 6" |
| FAN COIL UNITS        | GPS-FC-3    | UP TO 3200 CFM (8 TON) | 0.23 LBS        |

NOTES:

1. ALL NEW INDOOR UNITS TO INCLUDE A GPS AIR PURIFICATION, AS PER SCHEDULE  
2. GPS UNIT SHALL ACTIVATE WHEN INDOOR UNIT IS OPERATING.  
3. MECHANICAL CONTRACTOR SHALL COORDINATE WITH MFR FOR COMPLETE INSTALL OF UNITS

TODD COUNTY HS - OUTSIDE AIR CALC

|               | Unit Served | AREA SQ FT | DESIGNED O.A. CFM       | People load | REQUIRED CFM 2012 IMC |
|---------------|-------------|------------|-------------------------|-------------|-----------------------|
| LIBRARY       | OAU-1       | 4213       | 900                     | 30          | 805.56                |
| CAFETERIA     | RTU-C1 & C2 | 3460       | 800                     | 75          | 770.1                 |
| AG. CLASSROOM | RTU-A1      | 917        | 185                     | 25          | 180.02                |
| AG SHOP       | RTU-A2      | 2069       | 250                     | 25          | 249.14                |
| OFFICE        | RTU-5       | 713        | 65                      | 4           | 62.78                 |
|               |             |            | TOTAL IMC REQUIREMENTS: |             | 2067                  |
|               |             |            | TOTAL DESIGN CFM:       |             | 2200                  |

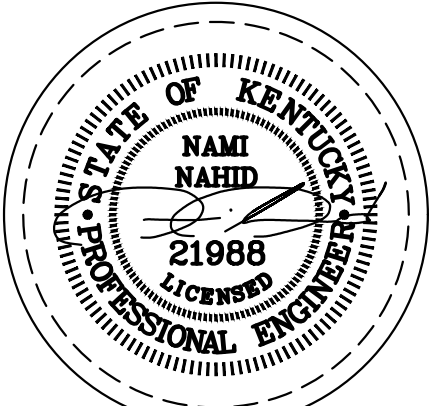
NOTE:

ALL REMAINING ROOMS ARE EQUIPMENT CHANGE OUTS AND EXISTING OUTSIDE AIR REQUIREMENT ARE TO REMAIN, AS IS.

TESTING AND BALANCE

TEST AND BALANCE CONTRACTOR:

A CERTIFIED TESTING AND BALANCE (T&B) CONTRACTOR SHALL PROVIDE SERVICES FOR THE REFERENCED ASSOICATED PROJECT. MECHANICAL CONTRACTOR SHALL COORDINATE WITH T&B CONTRACTOR, AS REQUIRED FOR SERVICE.



DESIGN PROFESSIONAL



PLAN REVIEWER

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BY ACE

DATE 02/18/2021

SET CONSTRUCTION DOCUMENTS



REVISION DESCRIPTION

Δ DDM/YYYY REVISION DESCRIPTION



TODD COUNTY  
CENTRAL HIGH SCHOOL  
RENOVATION 2020

806 SOUTH MAIN ST.  
ELKTON, KENTUCKY 42220  
CONTRACT 20200821

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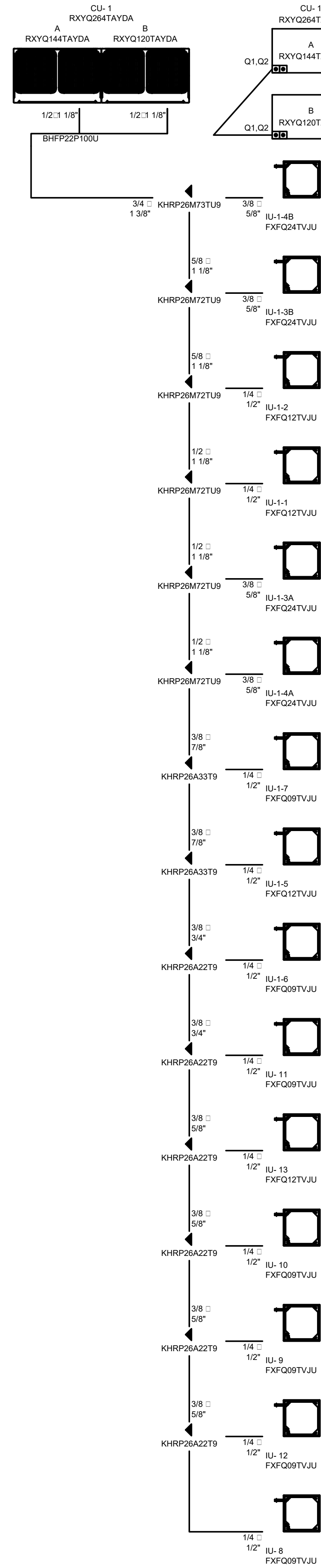
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MECHANICAL  
SCHEDULES

M 02

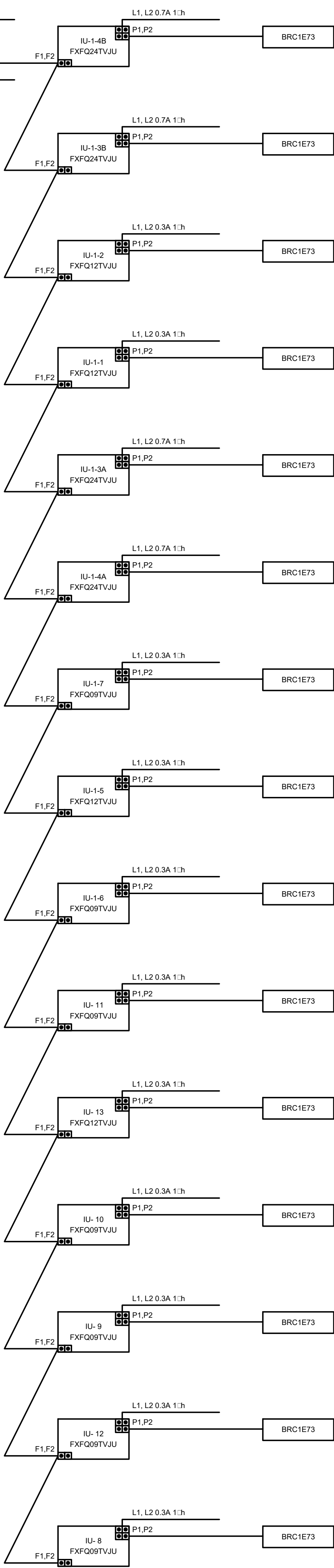
MECHANICAL





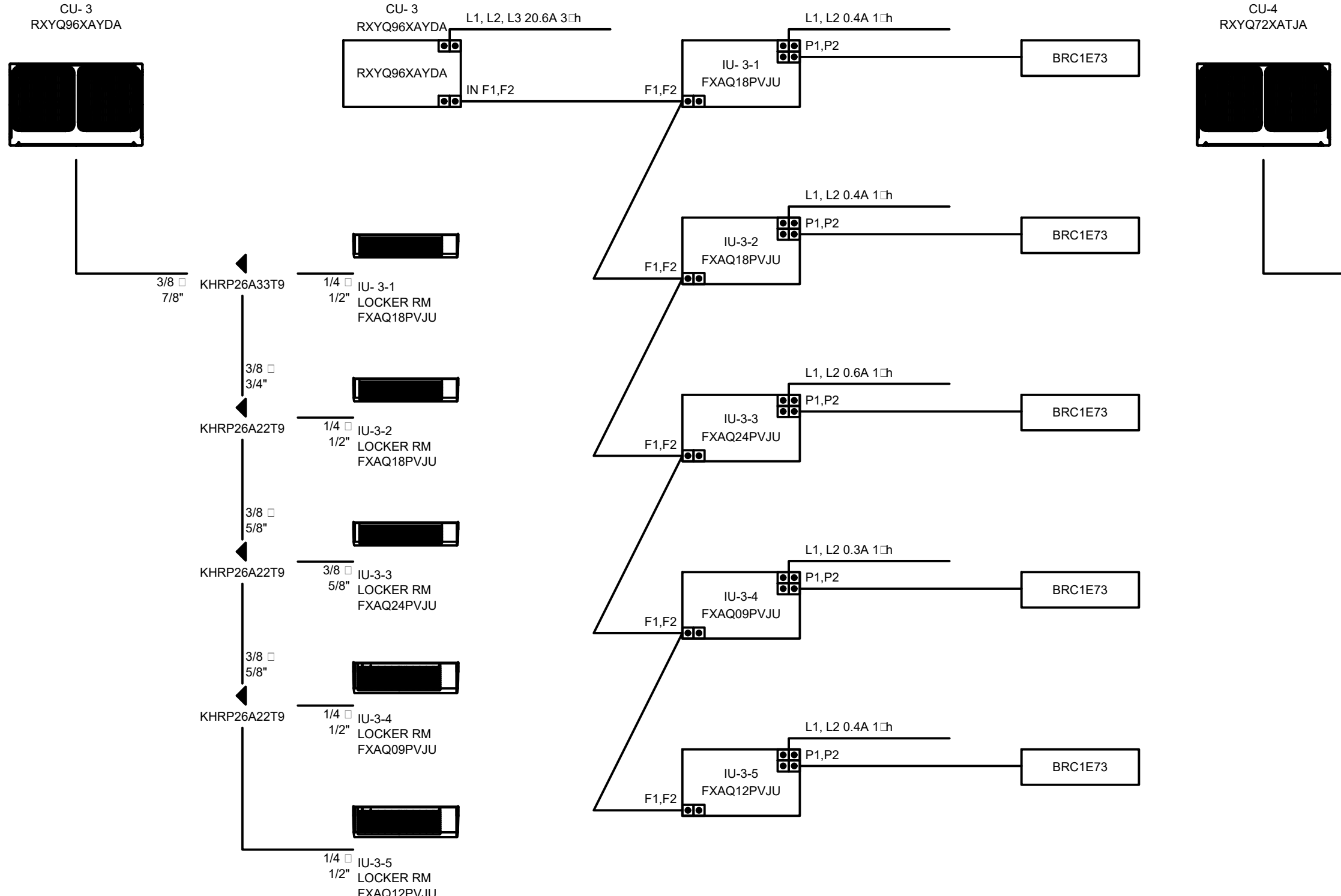
CU-1 VRF SCHEMATICS

NOT TO SCALE



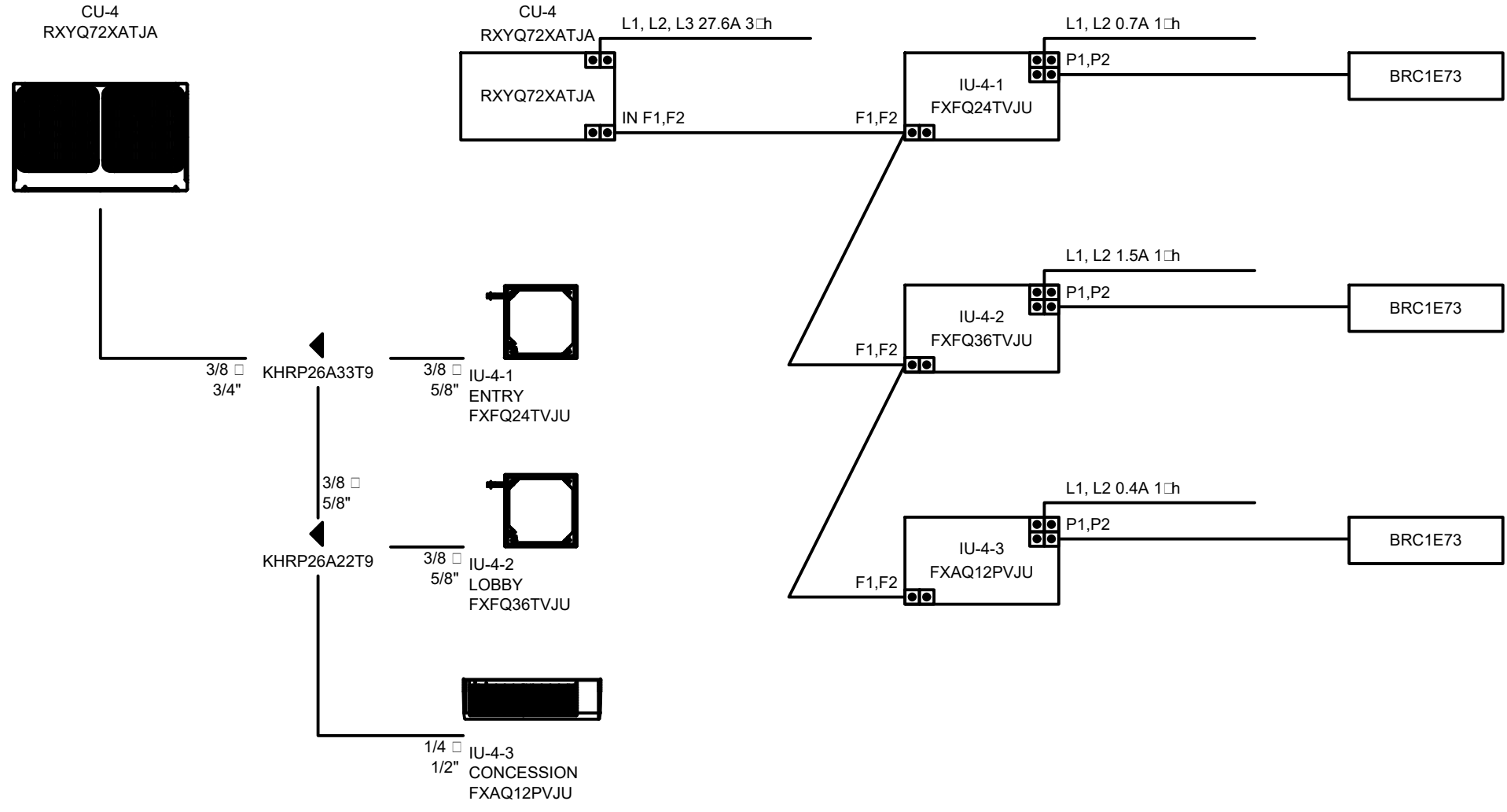
CU-2 VRF SCHEMATICS

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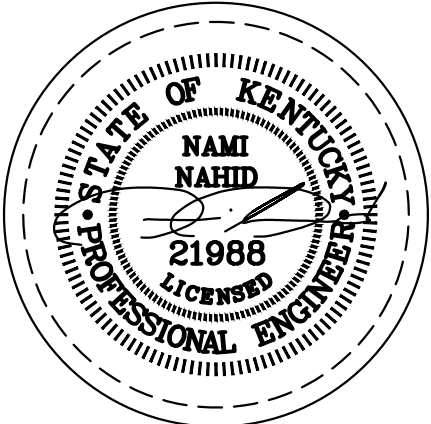
CU-3 VRF SCHEMATICS

NOT TO SCALE



CU-4 VRF SCHEMATICS

NOT TO SCALE



DESIGN PROFESSIONAL



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BY ACE  
DATE 02/18/2021  
SET CONSTRUCTION DOCUMENTS



| REVISION | DESCRIPTION                    |
|----------|--------------------------------|
| x        | DDMM/YYYY REVISION DESCRIPTION |



TODD COUNTY  
CENTRAL HIGH SCHOOL  
RENOVATION 2020  
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CONTRACT 20200821

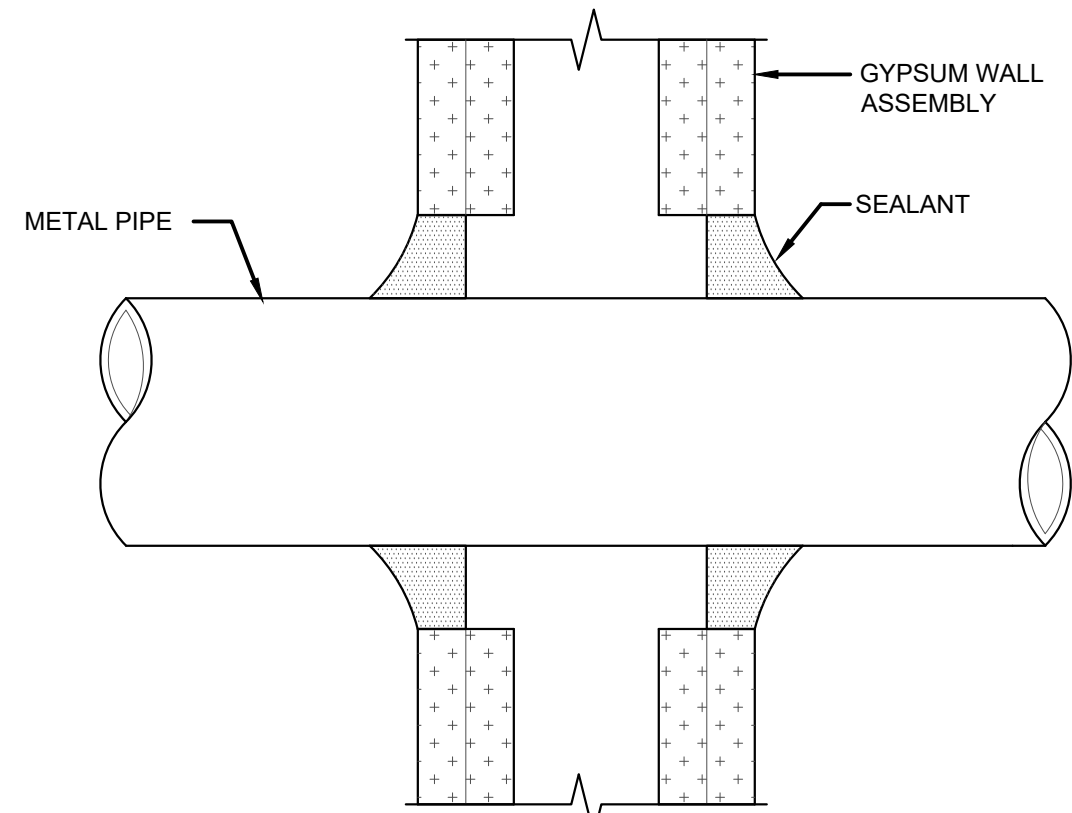
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MECHANICAL  
VRF SCHEMATICS

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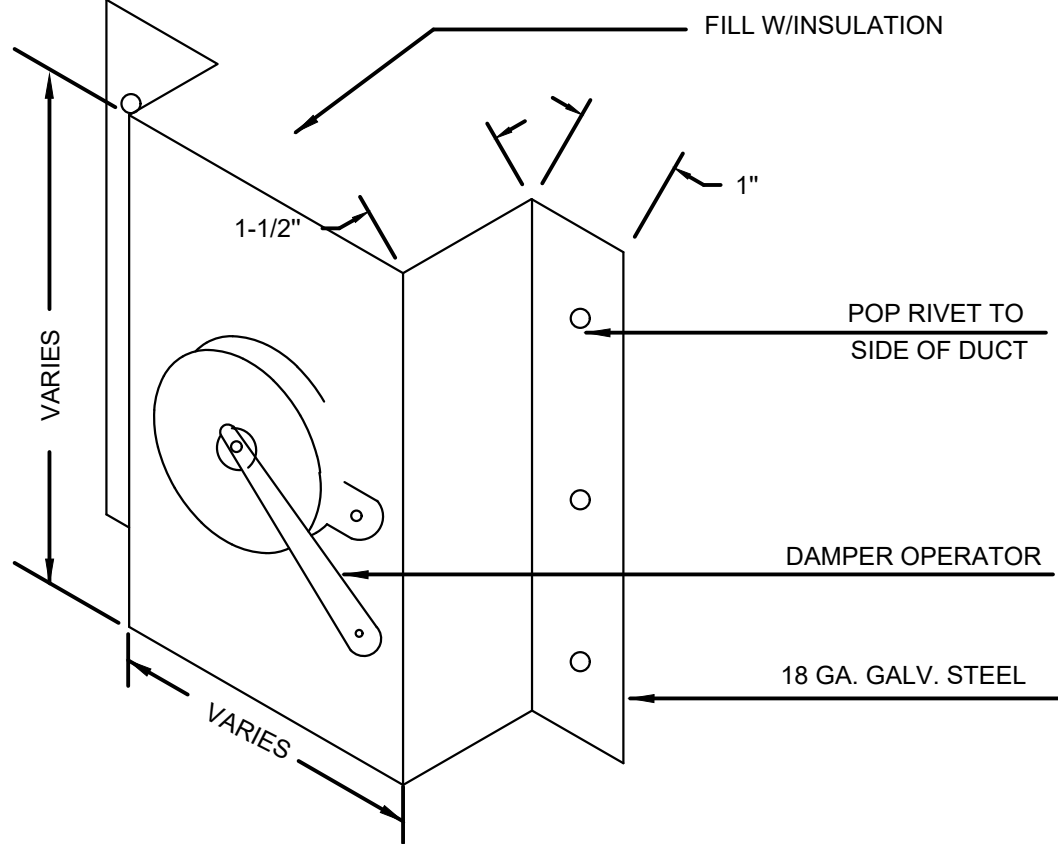
MECHANICAL



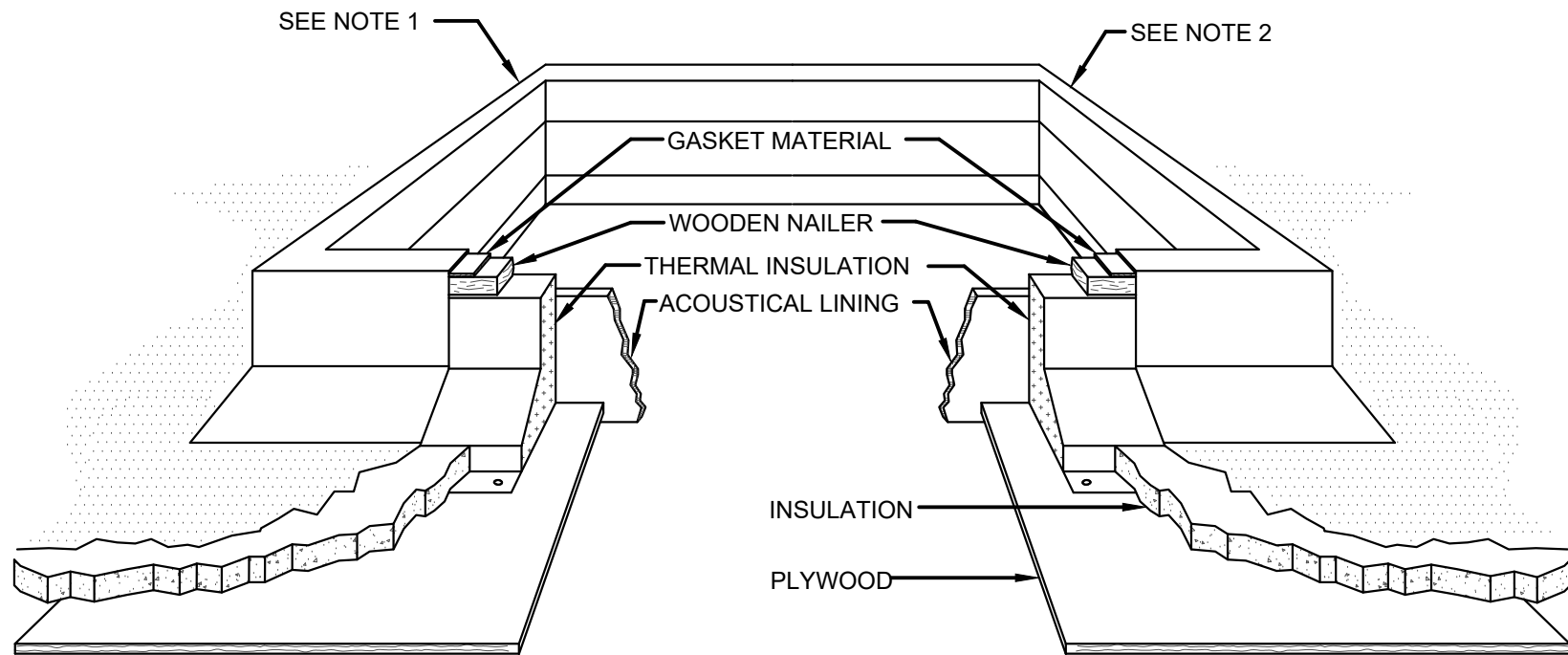


UL SYSTEM NO. WL1097  
F RATING: 1, 2 HR. T RATING: 0  
C.I. PIPE £ 8" COPPER PIPE £ 4": 4" EMT  
ANNULAR RANGE: 1/4" TO 5/8"  
SEALANT DEPTH 1/2"

### METAL PIPE THROUGH GYPSUM WALLS



### TYPICAL DAMPER INSTALLATION



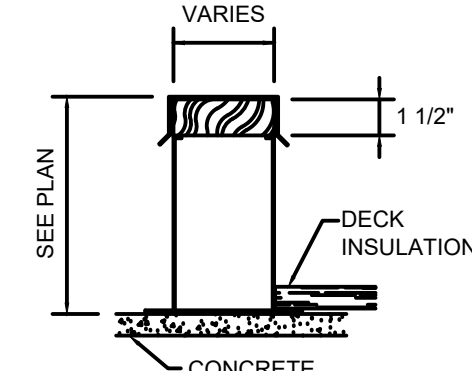
#### NOTES:

1. ROOFING MATERIAL SHALL EXTEND UP AND OVER TOP OF CURB AS SHOWN IN DETAIL.
2. CURB HEIGHT SHALL BE 12" TO 18" AS SET FORTH IN MECHANICAL SPECIFICATIONS. SECURE CURB TO ROOF WITH SHEET METAL SCREWS, LAG BOLTS, OR OTHER METHODS CONSISTANT WITH ROOF CONSTRUCTION.

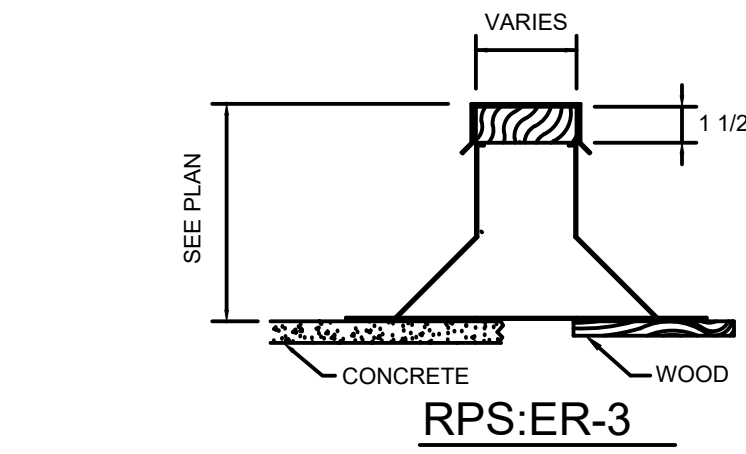
### THERMAL/ACOUSTICAL ROOF CURB

#### STANDARD CONSTRUCTION:

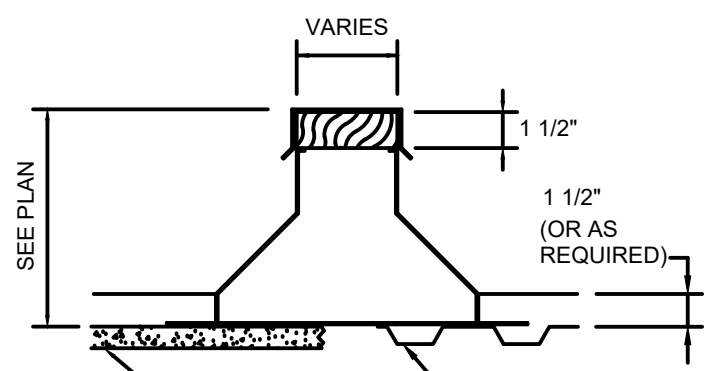
- 18 GAUGE GALVANIZED STEEL
- UNITIZED CONSTRUCTION WITH INTEGRAL BASE PLATE
- WELDED CONSTRUCTION
- WOOD NAILER
- GALVANIZED COUNTERFLASHING WITH LAG SCREWS
- INTERNALLY REINFORCED
- BUILT-IN RAISED CANT ON ER-4 STYLE



RPS:ER-2



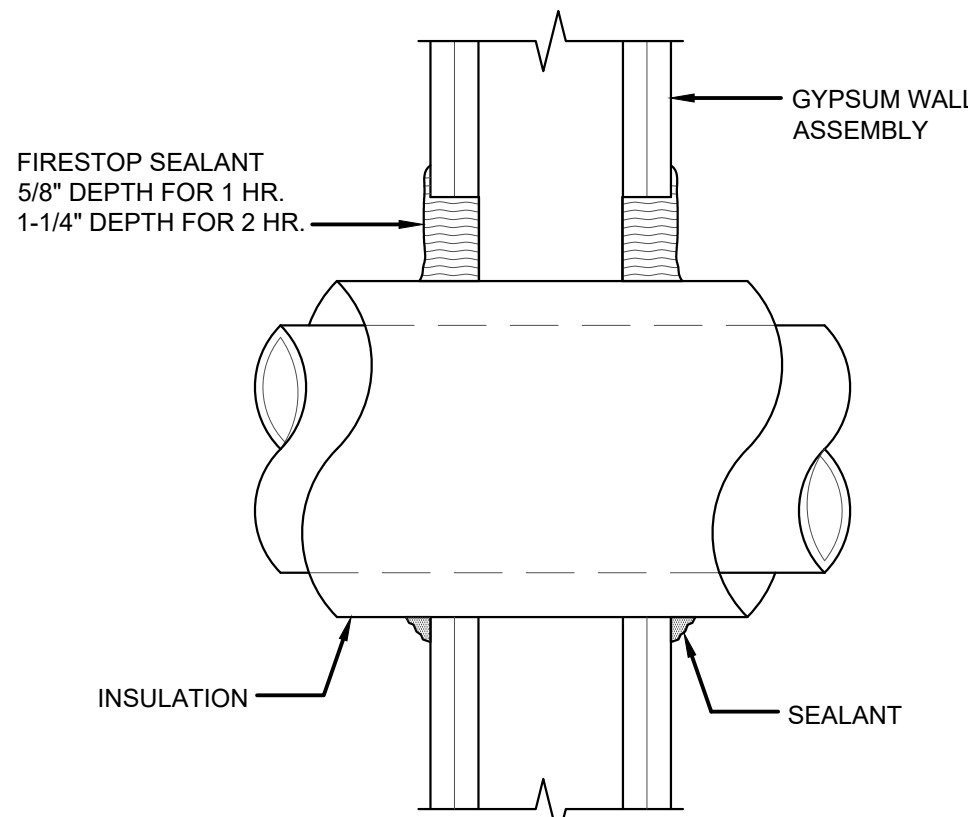
RPS:ER-3



RPS:ER-4

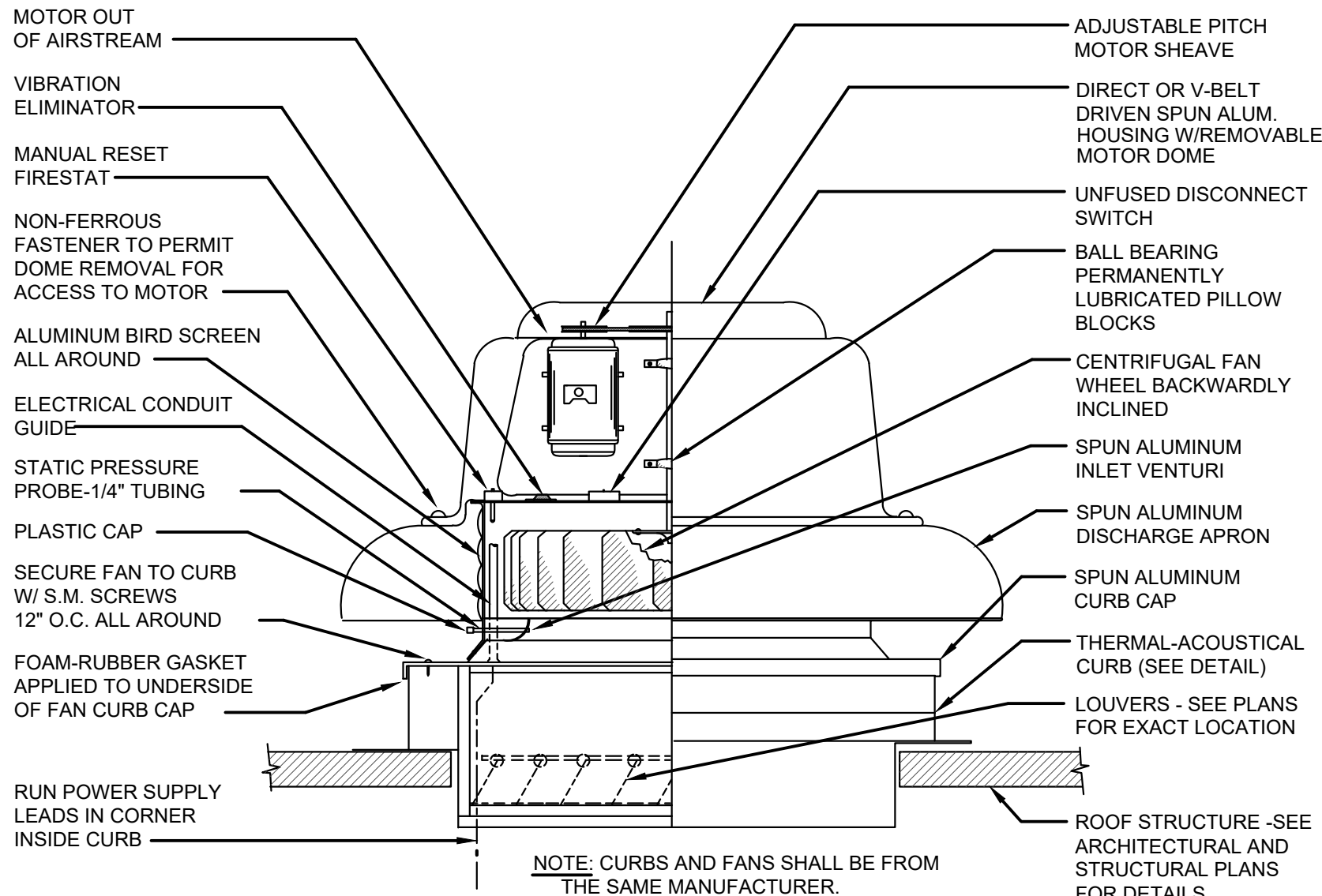
### ROOFTOP EQUIPMENT SUPPORT RAIL DTL.

NO SCALE



UL SYSTEM NO. WL5029  
F RATING = 1, 2 HR. T RATING = 1/2, 1, 1-3/4 HR.  
STEEL PIPE £ 4", COPPER PIPE £ 4", EMT £ 4", STEEL CONDUIT £ 4"  
ANNULAR SPACE TO 1"  
SEALANT DEPTH 1/2"

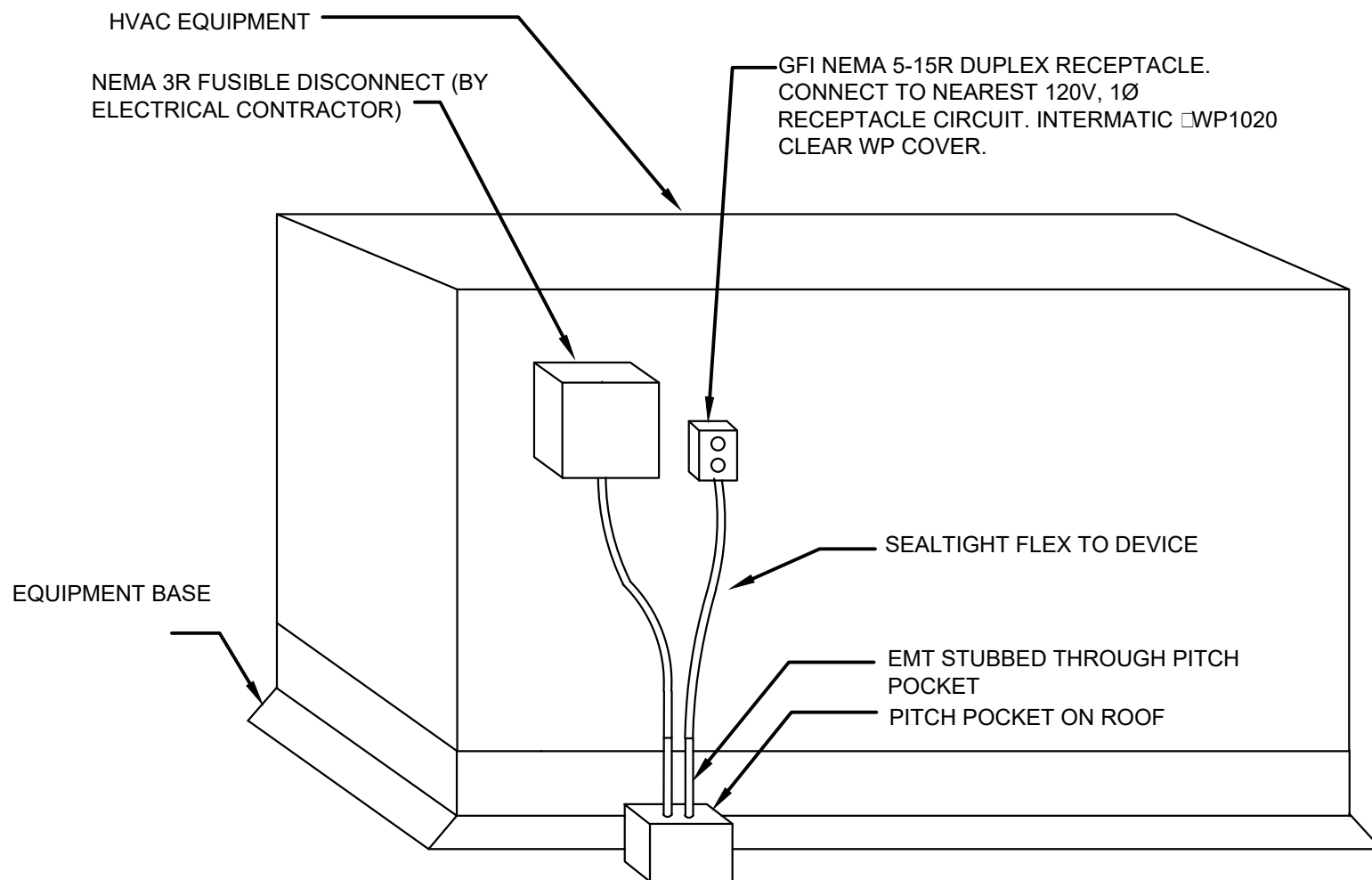
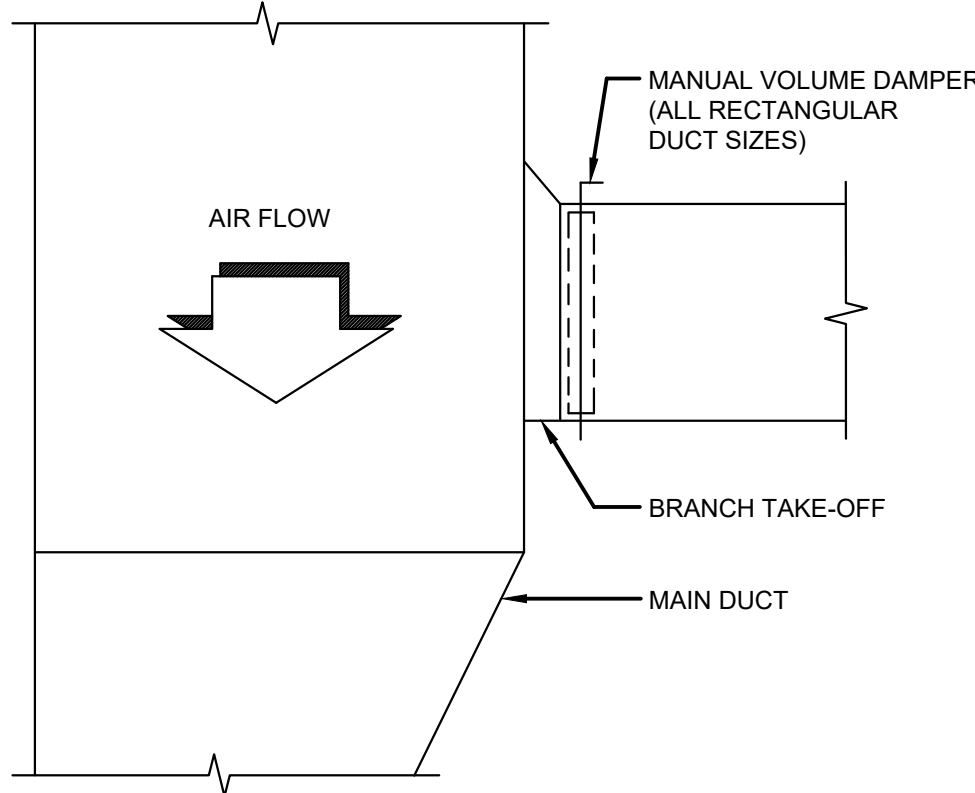
### INSULATED METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL



NOTE: CURBS AND FANS SHALL BE FROM THE SAME MANUFACTURER.

### CENTRIFUGAL ROOF EXHAUST FAN

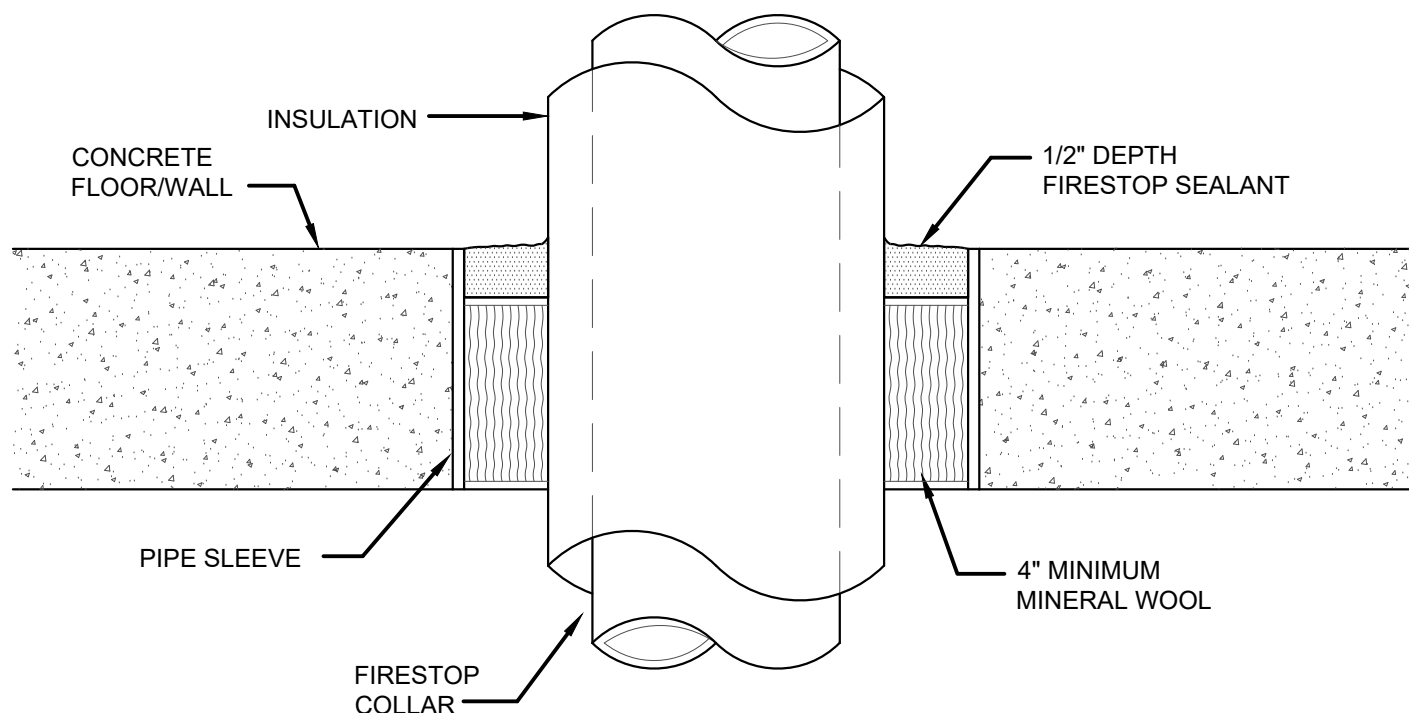
### LOW PRESSURE DUCT BRANCH TAKE-OFF DETAIL



NOTE: TYPICAL FOR ALL ROOF MOUNTED HVAC EQUIPMENT

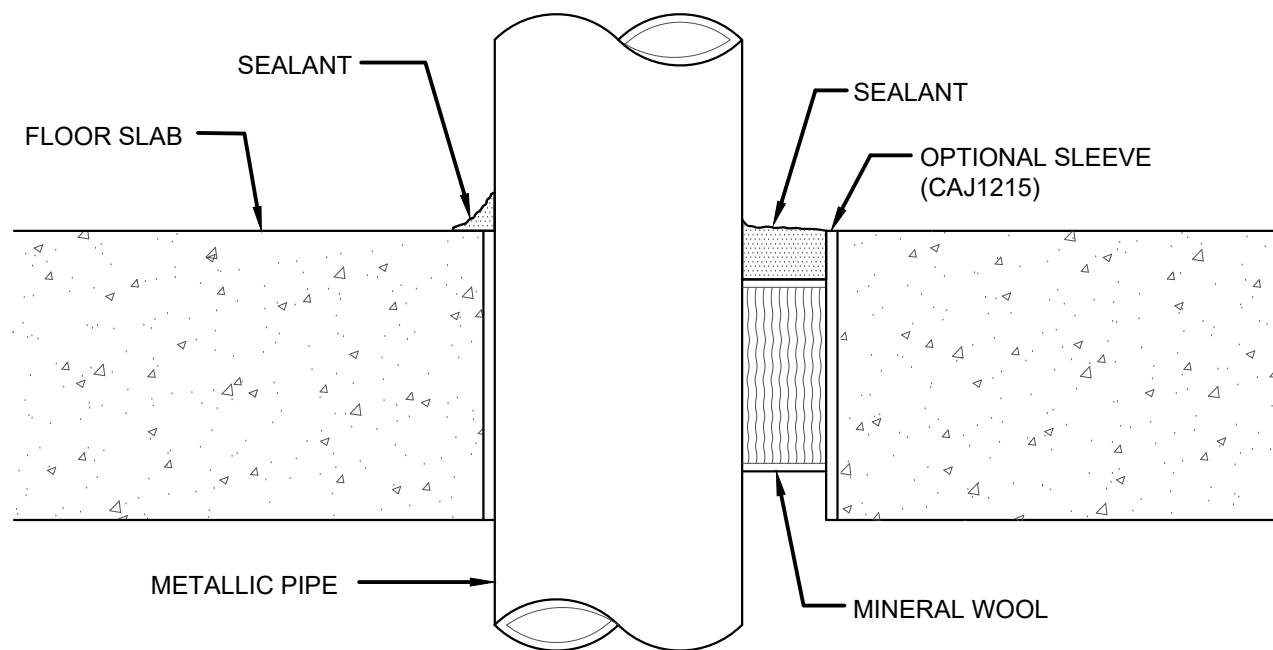
### HVAC RECEPTACLE DETAIL

NOT TO SCALE



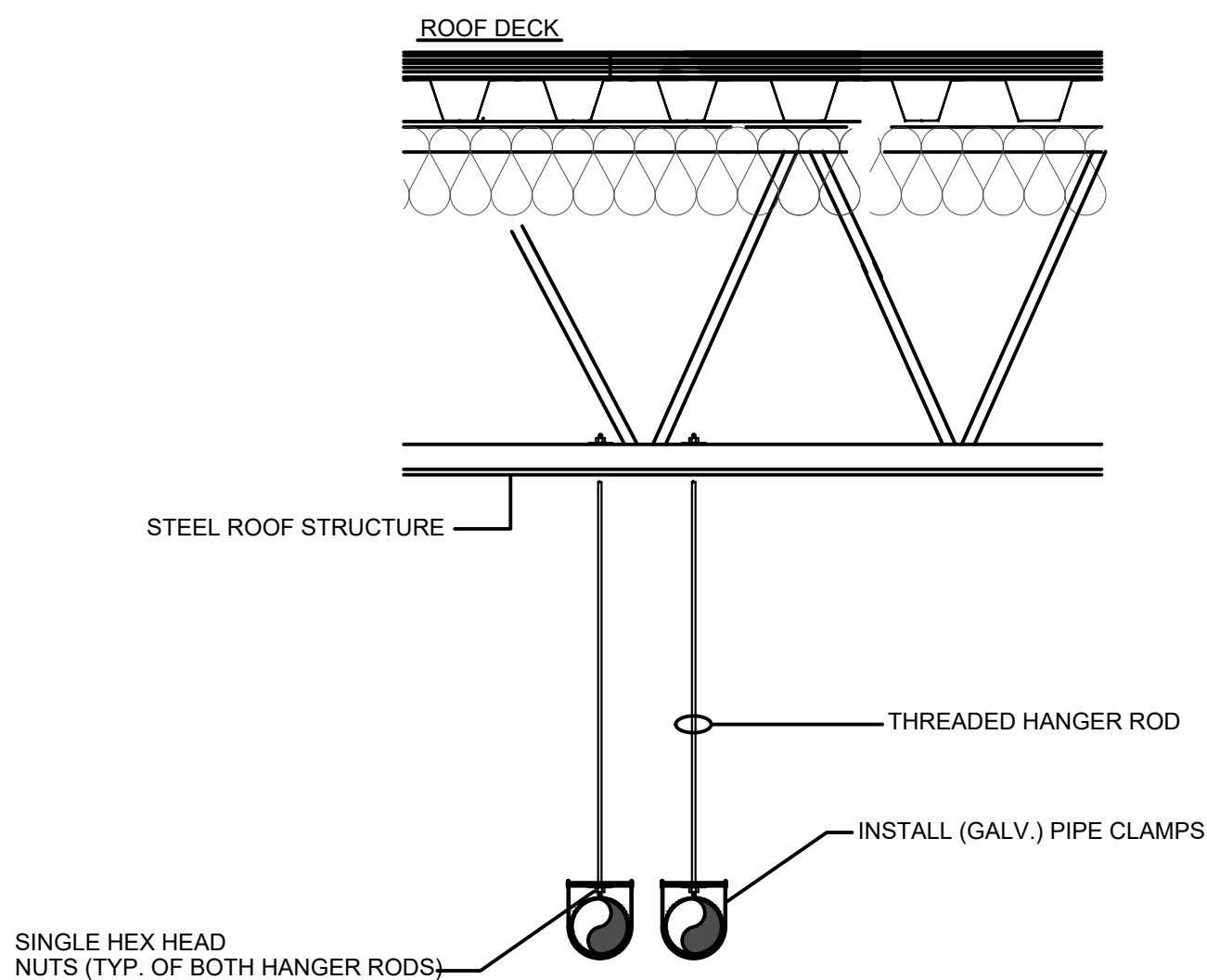
UL SYSTEM NO. CAJ5091  
F RATING = 2 HR. T RATING = 1 HR.  
STEEL PIPE £ 12", COPPER PIPE £ 6", EMT £ 4", STEEL CONDUIT £ 6"  
ANNULAR SPACE BETWEEN 1/2" TO 2-1/4"  
SEALANT DEPTH 1/2"

### INSULATED STEEL PIPE THROUGH CONCRETE FLOOR OR WALL



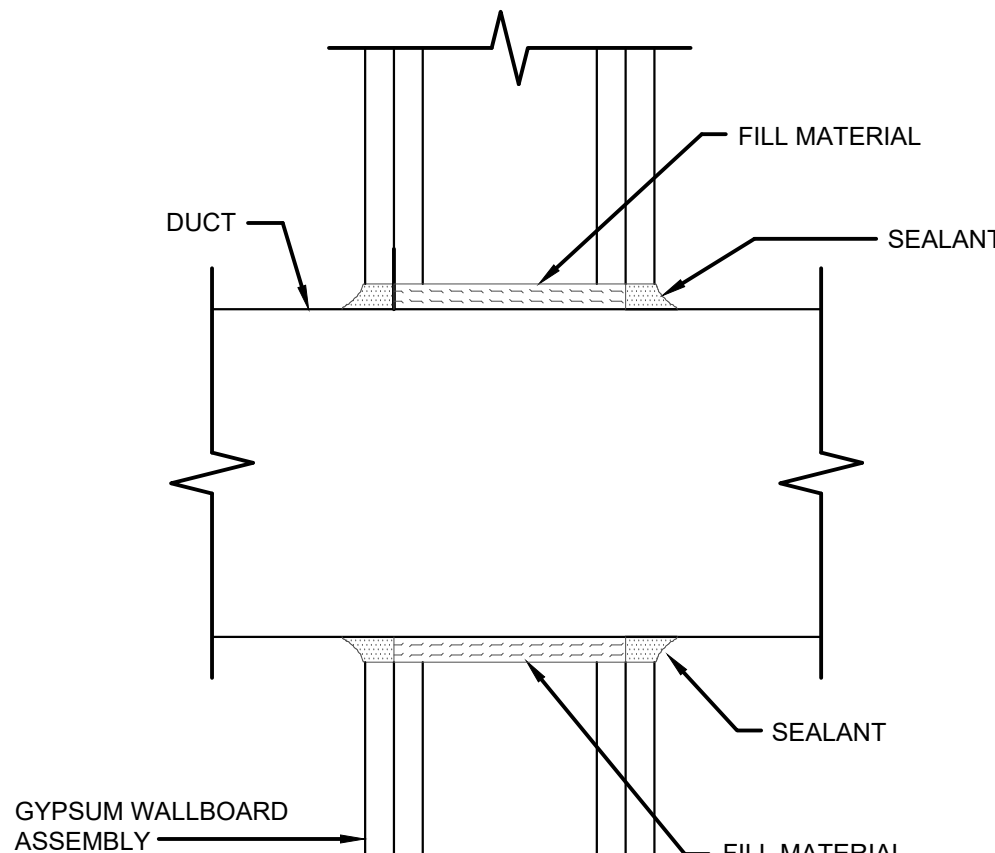
UL SYSTEM NO. CAJ1213  
F RATING: 3 HR. T RATING: 0  
STEEL OR IRON PIPE £ 24", COPPER PIPE £ 4"  
ANNULUS POINT CONTACT TO 1-1/2"  
SEALANT DEPTH: 1/2"  
FORMING MATERIAL: 3" TIGHTLY PACKED MIN. WOOL (NOM. 4PCF)

### METALLIC PIPE PENETRATION CONCRETE FLOOR



### TYP. SINGLE PIPING HANGER DTL.

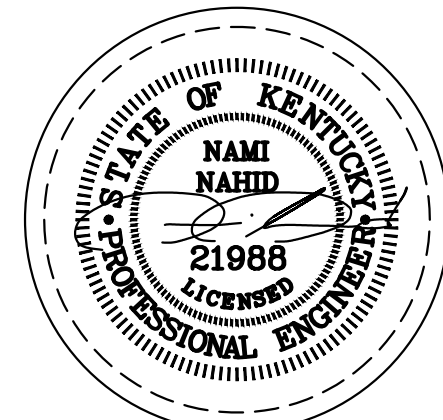
NOT TO SCALE



UL SYSTEM NO. W-L-7007  
F RATING: 1 AND 2 HR., T RATING: 1HR.  
SEALANT DEPTH: MIN 3/4" APPLIED WITHIN THE ANNULUS  
PLACING MATERIAL: MIN. 3-1/2" THICK OF MIN. 4 PCF MINERAL WOOL  
STEEL DUCT OF NOM. 12" TO 12" OR SMALLER

### DUCT PENETRATION THRU WALL

N.T.S



DESIGN PROFESSIONAL



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BY ACE

DATE 02/18/2021

SET CONSTRUCTION DOCUMENTS



REVISION DESCRIPTION

Δ DMM/YYYY REVISION DESCRIPTION



MATERIALS

DOMESTIC WATER PIPE - ABOVE SLAB TYPE L COPPER  
UNDERGROUND TYPE K COPPER

COPPER PIPE FITTINGS SHALL BE WROT COPPER, SOCKET TYPE, MIL-F-1183 WITH 95/5 SOLDER OR "NO LEAD" SOLDER FOR POTABLE WATER.

WASTE PIPING BELOW SLAB - SCHEDULE 40 PVC  
WASTE AND VENT PIPING ABOVE SLAB CAN BE SCH. 40 PVC

PVC PIPE FITTINGS 4" AND SMALLER SHALL BE ASTM D-1785, TYPE 1, GRADE 1, SOCKET TYPE WITH ASTM D-2564 SOLVENT CEMENT.

ALL DOMESTIC WATER LINES INSULATED WITH 1" BLACK FOAM STENCILED EVERY 10'-0" INSTALLED

SPECIFICATIONS

HANDICAP LAVATORY P-TRAP  
AND ANGLE VALVE ASSEMBLIES SHALL  
BE INSULATED WITH THE FULLY MOLDED, TRUEBRO, HANDI  
LAV-GUARD INSULATION KIT WITH 3-PIECE INTERLOCKING TRAP

ASSEMBLY AND 2-PIECE INTERLOCKING ANGLE  
VALVE ASSEMBLIES. FASTENERS SHALL BE NYLON-TYPE  
SUPPLIED WITH KIT

TRUEBRO  
P.O. BOX 429, ELLINGTON, CT 06029  
PHONE: (203) 875-2888

HANDI LAV-GUARD KIT FITS:

1 1/4" OR 1 1/2" TUBULAR PLASTIC P-TRAPS  
1 1/4" OR 1 1/2" TUBULAR BRASS P-TRAPS

1 1/4" OR 1 1/2" SEMI-CAST BRASS P-TRAPS  
1 1/4" STRAIGHT LAVATORY TAIL PIECE  
1/2" SWEAT ANGLE STOP VALVE, KEYED OR REGULAR  
1/2" COMP. ANGLE STOP VALVE, KEYED OR REGULAR  
3/8" I.P. ANGLE STOP VALVE, KEYED OR REGULAR  
3/8" O.D. SUPPLY TUBE

GENERAL PLUMBING NOTES

- ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR, UNLESS NOTED OTHERWISE.
- THERE SHALL BE NOTHING ABANDONED IN PLACE, UNLESS SPECIFICALLY IDENTIFIED AS SUCH OR AHJ APPROVED.
- EXISTING SANITARY SEWER THAT CONTAINS HUMAN WASTE SHALL BE JET CLEANED IN REMODELED AREA, PRIOR TO INSTALLATION OF NEW FIXTURES.
- THESE PLANS ARE DIAGRAMMATIC IN NATURE, CONTRACTORS SHALL INCLUDE APPROPRIATE ALLOWANCES FOR OFFSETS AS REQUIRED TO ACCOMMODATE VERTICAL AND HORIZONTAL VARIATIONS IN THE LOCATIONS, ELEVATIONS OF PIPING AND EXISTING CONDITIONS.
- EACH TRADE SHALL COORDINATE THE ROUTING AND INSTALLATION OF THEIR WORK WITH THAT OF ALL OTHER TRADES THROUGH THE GENERAL CONTRACTOR. IN ANY INSTANCES OF CONFLICT, SYSTEMS REQUIRING "GRADE" OR "SLOPE" FOR DRAINAGE (SANITARY SEWER, SANITARY VENT, EQUIPMENT DRAINS, ETC...) SHALL HAVE PRIORITY.
- PENETRATIONS OF WALLS OR FLOORS FOR THE PASSAGE OF PIPING, OR OTHER EQUIPMENT SHALL BE PROPERLY SEALED AFTER INSTALLATION OF EQUIPMENT. FIELD VERIFY EXISTING WALL PENETRATIONS AND PROPERLY SEAL AS REQUIRED TO MAINTAIN WALL OR FLOOR RATING. PIPING PENETRATING FIRE RATED WALLS SHALL HAVE UL FIRE RATED CAULKING. SMOKE TIGHT FOR PIPING PENETRATION THRU SMOKE TIGHT WALL.
- ALL UNDERGROUND PIPE TO BE MINIMUM OF 2" CHARLOTTE PVC UNLESS OTHERWISE NOTED. PIPING SHALL NOT RUN THRU FOUNDATION OR FOOTERS WITH A LENGTH GREATER THAN 2 FEET. WITHIN THE FOOTER CONTRACTOR SHALL PROVIDE A PIPE SLEEVE THE LENGTH OF THE PENETRATION, 2 INCHES LARGER THAN THE PENETRATING PIPE. LASTLY, THE PIPE MUST BE ARMAFLEX INSULATED AND APPROVED BY LOCAL AHJ.
- PROVIDE ALL EQUIPMENT, MATERIAL, LABOR, SUPERVISION, COSTS AND SERVICES REQUIRED TO INSTALL COMPLETE AND WORKING SYSTEMS, INCLUDING ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE, INCIDENTAL OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFIED OR SHOWN.
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, INCLUDING ADDENDA, AND APPLICABLE CODES AND STANDARDS.
- PROVIDE ACCESS TO ALL CONCEALED EQUIPMENT AND VALVES. COORDINATE LOCATION OF ACCESS PANELS WITH ARCHITECT.
- ALL FLOOR DRAINS, FLOOR SINKS, HUB DRAINS, OR INDIRECT CONNECTIONS SHALL BE PROVIDED WITH TRAP PRIMER VALVE(S) EXTENDING TO NEAREST COLD WATER SUPPLY UNLESS SHOWN OTHERWISE.
- VENT STACK SHALL BE LOCATED A MINIMUM OF 10'-0" AWAY FROM ANY HVAC UNIT.
- EXTEND SANITARY SEWER, DOMESTIC WATER, STORM, AND FIRE MAIN PIPING AS REQUIRED IN ORDER TO CONNECT TO STUB-OUT PROVIDED BY CIVIL.

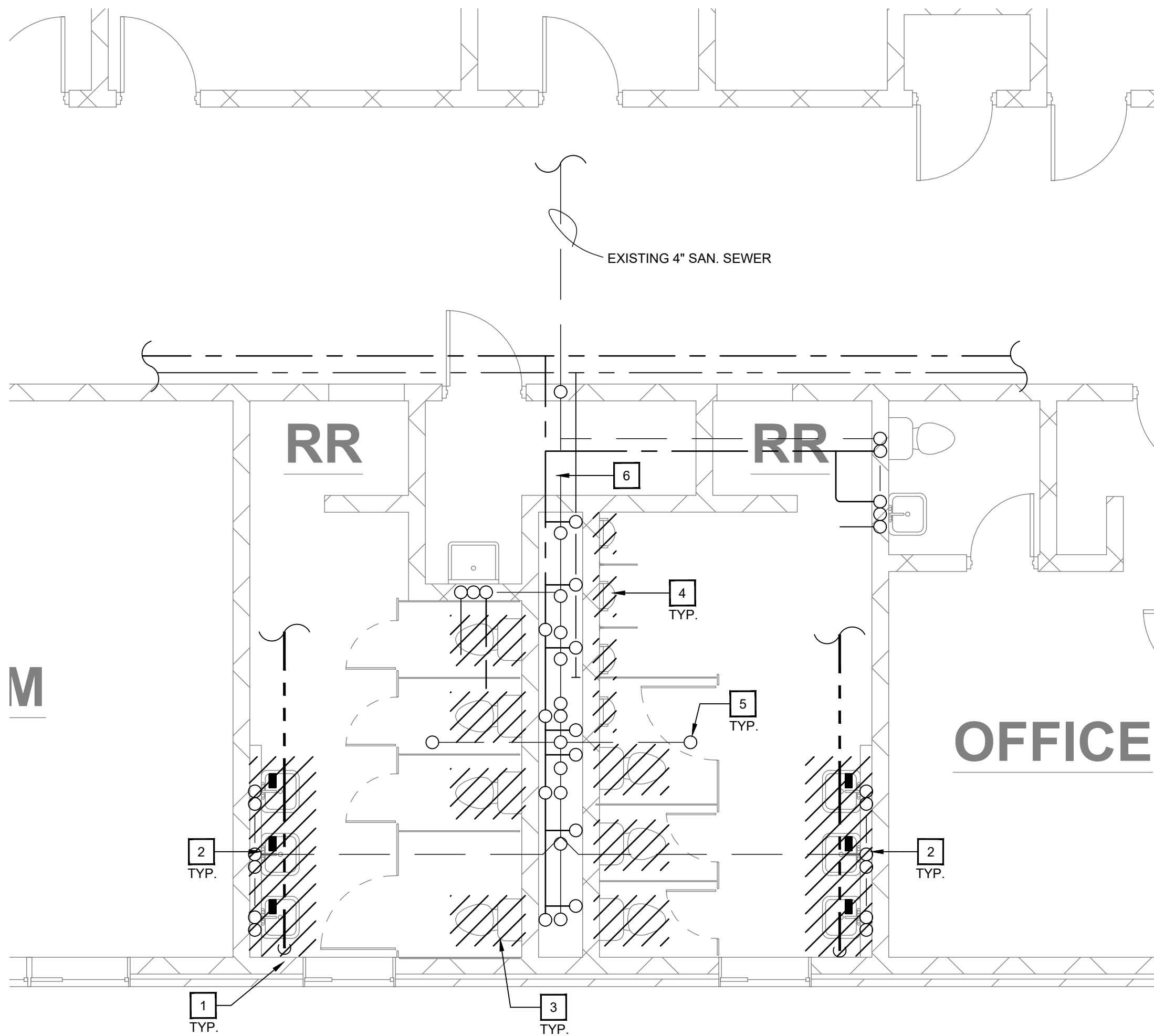
- INSTALL STOPS IN SUPPLIES TO ALL FIXTURES.
- INSTALL SHUT-OFF VALVES AT ALL EQUIPMENT/FIXTURES.
- PROVIDE VENTS, CLEANOUTS, AND PLUMBING AS REQ'D BY STATE PLUMBING CODE.
- PIPING SHALL BE CONCEALED IN FINISHED AREAS, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL VERIFY DIMENSIONS BEFORE STARTING WORK.
- ALL EQUIPMENT INSTALLED AS PER CERTIFIED SHOP DRAWING FROM MFR.
- PROVIDE ACCESS PANELS FOR CONCEALED VALVES AND OPEN SITE DRAINS.
- PROVIDE HYDRAULIC SHOCK ABSORBERS WHERE QUICK-CLOSING VALVES ARE UTILIZED AND AS OTHERWISE REQUIRED BY CODE.
- ROOF OPENINGS SHALL MEET ROOF BOND CANTS AND FLASHINGS BY ROOFING CONTRACTOR, ALL COLLARS ON VENTS, ETC. BY ROOFING CONTRACTOR.
- HOSE BIBBS □ WALL HYDRANTS SHALL BE A MIN. OF 18" ABOVE FR. GRADE.
- ALL FLOOR DRAINS SHALL HAVE TRAP PRIMERS.
- BACK TO BACK FLUSH VALVE WATER CLOSETS TO BE INSTALLED USING A DOUBLE "Y" CONNECTION. SEE RISER
- PIPING MUST CONFORM TO LOCAL AND STATE SEISMIC CODES.
- C-CLAMPS ARE NOT TO BE USED WITHOUT A SEISMIC RETAINER STRAP ON ANY PROJECTS LOCATED WITHIN A SEISMIC ZONE.
- EXPOSED PIPING IN FINISHED SPACES SHALL BE PAINTED.
- NO PIPING SHALL BE RUN DIRECTLY OVER ANY ELECTRICAL PANELS, TRANSFORMERS, SWITCHGEAR ETC. PROVIDE DRAIN PANS UNDER PIPES, IF NO OTHER ROUTING IS AVAILABLE.
- WHEN BRANCH LINE EXCEEDS 20FT IN LENGTH, AN ADDITIONAL WATER HAMMER ARRESTER SHOULD BE INSTALLED, USING BRANCH LINE PIPE SIZE, AT THE END OF THE BRANCH LINE BETWEEN THE LAST TWO FIXTURES. WATER HAMMER ARRESTER FOR A BRANCH SERVING A PIECE OF EQUIPMENT WITH A QUICK-CLOSING VALVE SHOULD BE PLACED AS CLOSE AS POSSIBLE TO THE EQUIPMENT ISOLATION VALVE.

DEMO NOTES:

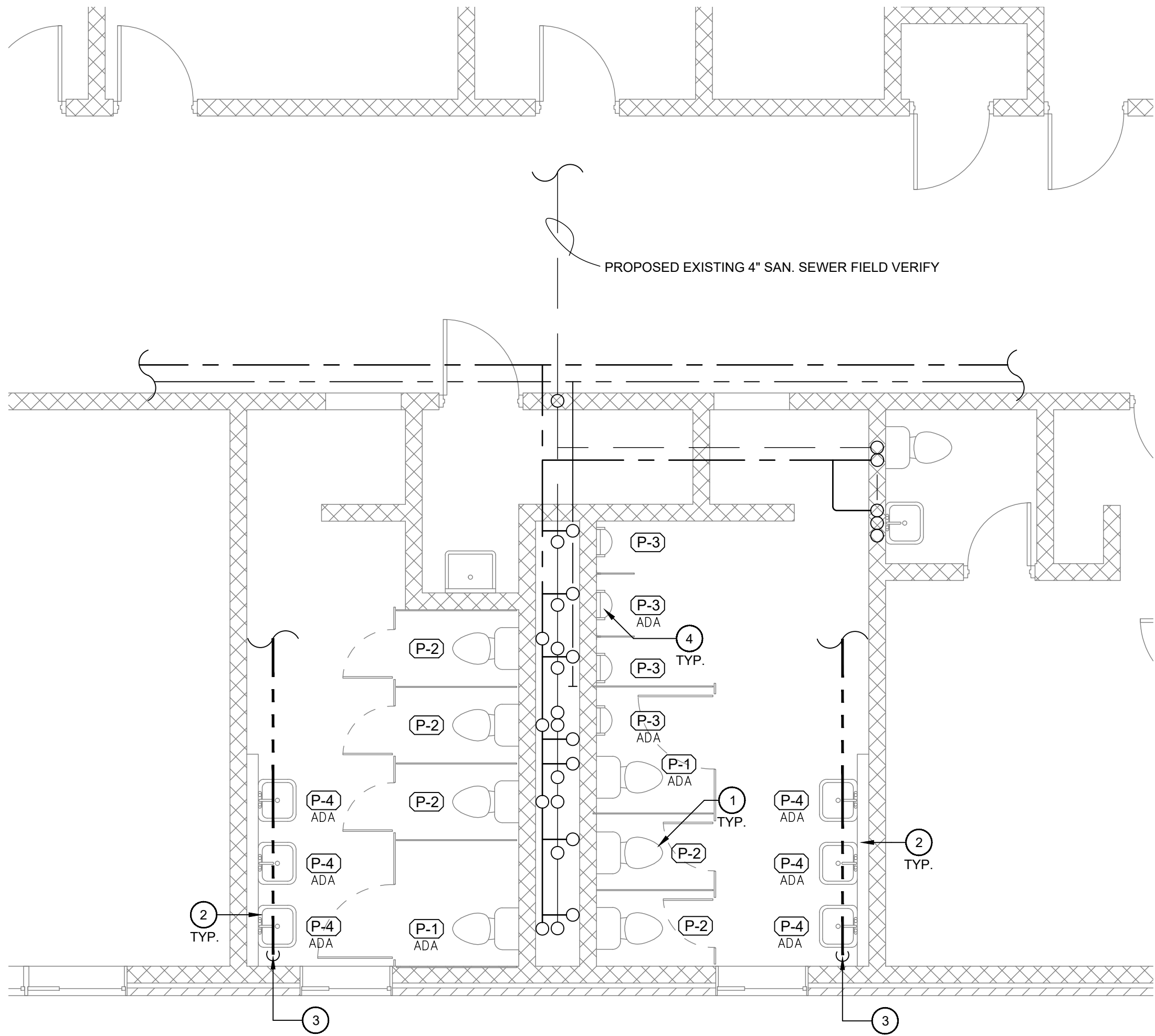
- EXISTING 3/4" MIXED WATER BRANCH TO REMAIN. CONTRACTOR TO FIELD VERIFY OPERATION, CONDITION AND LOCATION OF MIXING VALVE ABOVE CEILING. WATER TEMPERATURE NOT TO EXCEED 90 DEGREE AT FAUCET. FIELD VERIFY EXISTING CONDITIONS. REPLACE AS NEEDED FOR COMPLETE INSTALL.
- ALL EXISTING LAVATORIES SHALL REMAIN. REMOVE EXISTING FAUCETS IN THEIR ENTIRETY INCLUDING VALVES AND BATTERY PACK. TEMPORARILY CAP WATER LINE AND PREPARE FOR NEW CONNECTION. CLEAN LAVATORY FIXTURE AND P-TRAP PRIOR TO NEW FAUCET INSTALL. REPLACE PIPING AS NEEDED AND CAP UNUSED PIPING FOR COMPLETE INSTALL. REMOVE ALL EXCESS PIPE FROM PREVIOUS PROJECTS BACK TO MAIN AND CAP. FIELD VERIFY EXISTING CONDITIONS. TYPICAL
- REMOVE EXISTING FLOOR MOUNTED TOILETS, TYPICAL. PREPARE EXISTING LOCATIONS FOR NEW FLOOR MOUNTED AUTOMATIC FLUSH VALVE TOILETS. SEE PLUMBING SCHEDULE AND ARCHITECTURAL FOR ADDITIONAL INFORMATION.
- REMOVE EXISTING URINALS AND PREPARE EXISTING CONNECTIONS FOR NEW URINAL CONNECTIONS. FIELD VERIFY WALL CARRIER IS REUSABLE, REPLACE AS NEEDED. COORDINATE WITH GC.
- FLOOR DRAINS TO REMAIN. FIELD VERIFY CONDITION OF PIPING AND FIXTURE. PROVIDE TRAP PRIMER IF NOT PRESENT OR IN WORKING CONDITION.
- PROPOSED LOCATION OF EXISTING MAIN UNDER PLUMBING CHASE WALL. FIELD VERIFY CONDITION, SIZE AND LOCATION. REPLACE ANY PIPE NEEDED FOR COMPLETE INSTALL OF FIXTURES PER CODE.  
**ET CLEAN E: ISTING SE: ER MAIN THAT CONTAINS HUMAN ASTE: IN BATHROOM PRIOR TO NE: FI: TURE INSTALLATION.**

NEW WORK NOTES:

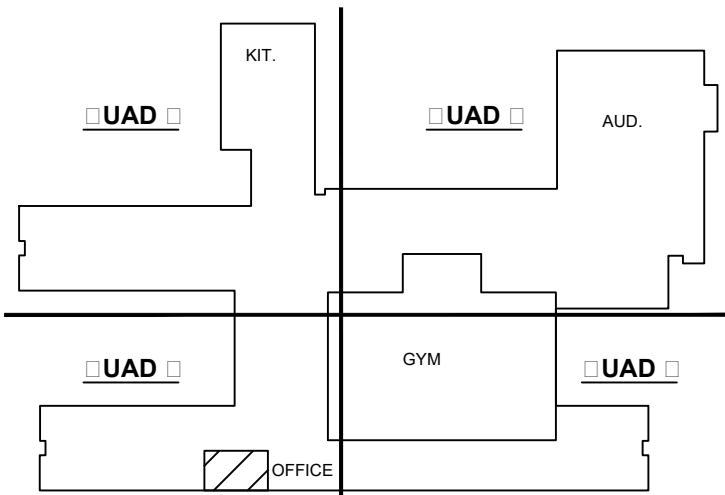
- CONTRACTOR TO INSTALL NEW TOILETS UTILIZING EXISTING SEWER AND WATER CONNECTIONS. FIELD VERIFY EXISTING DWV AND WATER PIPING CONDITIONS. SIZING AND LOCATION. REPLACE ANY PIPING NEEDED FOR COMPLETE INSTALLATION.
- EXISTING WALL HUNG LAVATORIES SHALL REMAIN. INSTALL NEW BATTERY POWERED FAUCETS UTILIZING EXISTING WATER CONNECTION OR REPLACE PIPE AS NEEDED FOR COMPLETE INSTALL. PROVIDE VALVES AND ADA TRAP COVERS FOR ALL LAVS. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION AND FINISHING TYPES.
- EXISTING 3/4" MIXED WATER PIPE UNDERNEATH LAVS TO REMAIN. INSULATE TO MATCH EXISTING. PAINT INSULATION TO MATCH NEW WALL COLOR. COORDINATE WITH ARCHITECT. FIELD VERIFY CONDITION, SIZE AND LOCATION OF PIPING. UTILIZE OR REPLACE PIPE AS NEEDED FOR COMPLETE INSTALL.
- RECONNECT EXISTING PIPING TO NEW URINAL FIXTURES. FIELD VERIFY EXISTING DWV, WATER PIPING AND WALL CARRIER CONDITIONS, SIZING



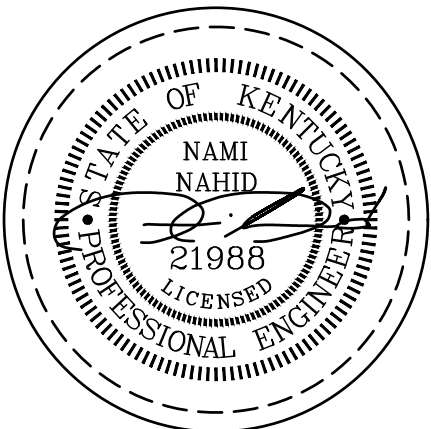
1 ENLARGED FLOOR PLAN - TOILET □ OFFICE - DEMO  
SCALE: 1/4"=1'-0"



2 ENLARGED FLOOR PLAN - TOILET □ OFFICE - NEW WORK  
SCALE: 1/4"=1'-0"



KEY PLAN  
NOT TO SCALE



DESIGN PROFESSIONAL



PLAN REVIEWER

IF NO STAMP IS PRESENT, PLAN REVIEW MAY BE PENDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL PERMITS AND APPROVALS ARE OBTAINED PRIOR TO COMMENCING WORK.

BY ACE  
DATE 02/18/2021  
SET CONSTRUCTION DOCUMENTS



| REVISION   | DESCRIPTION          |
|------------|----------------------|
| Δ DDM/YYYY | REVISION DESCRIPTION |
|            |                      |
|            |                      |
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TODD COUNTY  
CENTRAL HIGH SCHOOL  
RENOVATION 2020  
806 SOUTH MAIN ST.  
ELKTON, KENTUCKY 42220  
CONTRACT 20200821

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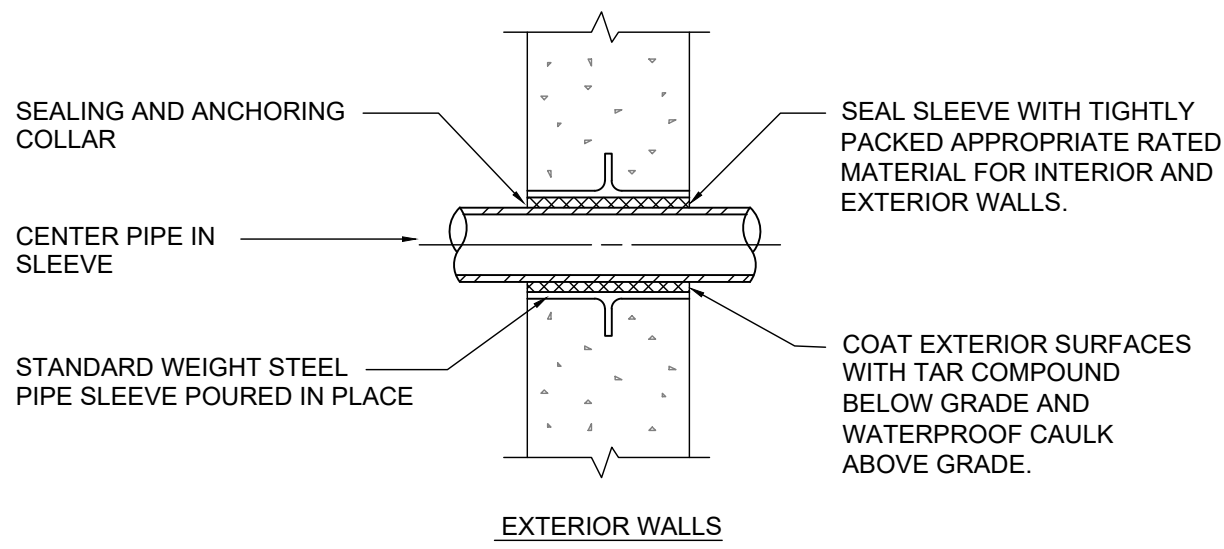
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PLUMBING IN  
ENLARGED FLOOR PLAN

P1.01

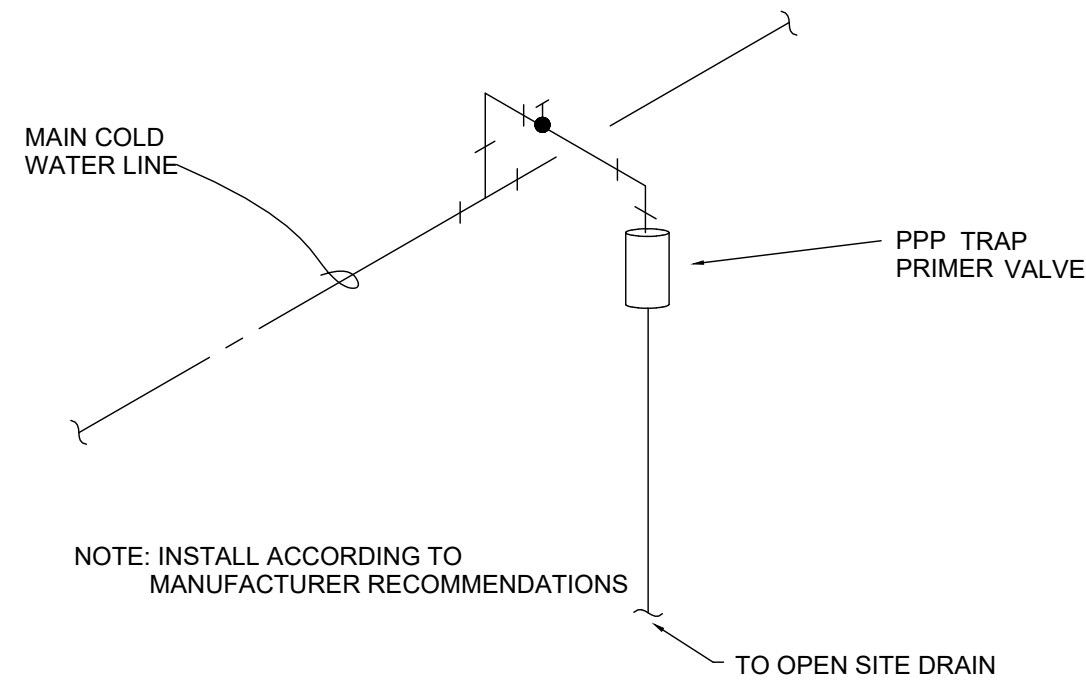
PLUMBING IN





## PIPE SLEEVE THRU WALL DETAIL

NOT TO SCALE



## TRAP PRIMER UNIT

NOT TO SCALE

## PLUMBING ABBREVIATION LEGEND

NOTE: ALL ABBREVIATIONS MAY NOT APPLY

|       |                                 |            |                                |
|-------|---------------------------------|------------|--------------------------------|
| AFD   | AREA FLOOR DRAIN                | LAV        | LAVATORY                       |
| AFF   | ABOVE FINISH FLOOR              | LB         | POUND                          |
| AHJ   | AUTHORITY HAVING JURISDICTION   | MBH        | THOUSAND BTU'S PER HOUR        |
| ARCH  | ARCHITECT                       | MFR        | MANUFACTURER                   |
| BF    | BOTTLE FILLER                   | MIN        | MINIMUM                        |
| BF    | BELOW FINISH FLOOR              | NG         | NATURAL GAS                    |
| BOP   | BOTTOM OF PIPE                  | NIC        | NOT IN CONTRACT                |
| BTU/H | BRITISH THERMAL UNIT / PER HOUR | NTS        | NOT TO SCALE                   |
| CD    | CONDENSATE DRAIN                | OR         | OPEN RECEPTACLE                |
| CFM   | CUBIC FEET PER MINUTE           | PEX        | CROSS-LINKED POLYETHYLENE      |
| CO    | CLEAN OUT                       | PK         | PACKAGED UNIT                  |
| CPVC  | CHLORINATED POLY VINYL CHLORIDE | PRV        | PRESSURE REDUCING VALVE        |
| CW    | COLD WATER                      | PSI        | PRESSURE PER SQUARE INCH       |
| DF    | DRINKING FOUNTAIN               | PVC        | POLY VINYL CHLORIDE            |
| DN    | DOWN                            | RTU        | ROOF TOP UNIT                  |
| DTL   | DETAIL                          | RPZ        | REDUCED PRESSURE ZONE ASSEMBLY |
| DWG   | DRAWING                         | SAN. SEWER | SANITARY SEWER                 |
| ECO   | EXTERIOR CLEAN OUT              | SHW        | SHOWER                         |
| EM    | EMERGENCY                       | SPEC       | SPECIFICATION                  |
| EQUIP | EQUIPMENT                       | SQ FT      | SQUARE FOOT                    |
| FD    | FLOOR DRAIN                     | SQ IN      | SQUARE INCH                    |
| FS    | FLOOR SINK                      | SS         | STAINLESS STEEL / SAN. SEWER   |
| FT HD | FEET OF HEAD                    | TD         | TRENCH DRAIN                   |
| GC    | GENERAL CONTRACTOR              | TDH        | TOTAL DYNAMIC HEAD             |
| GPM   | GALLONS PER MINUTE              | TH         | TUBE HEATER                    |
| HB    | HOSE BIBB                       | TYP        | TYPICAL                        |
| HD    | HUB DRAIN                       | UH         | UNIT HEATER                    |
| HP    | HORSE POWER                     | UR         | URINAL                         |
| HW    | HOT WATER                       | V          | VENT                           |
| HWR   | HOT WATER RETURN                | VTR        | VENT THRU ROOF                 |
| HZ    | HERTZ                           | W/         | WITH                           |
| IU    | INDOOR UNIT                     | WC         | WATER CLOSET / WATER COLUMN    |
| KW    | KILOWATT                        | WCO        | WALL CLEAN OUT                 |
|       |                                 | WH         | WALL HYDRANT                   |

## PLUMBING FIXTURE SCHEDULE

| MARK         | FIXTURE DESCRIPTION  |
|--------------|--|
| (P-1)<br>ADA | ADA AMERICAN STANDARD MODEL NUMBER 3461.576.020 FLOOR MOUNTED TOP SPUD 1.1-1.6 GPF TOILET, BATTERY POWERED AUTOMATIC FLUSH VALVE INCLUDED IN PACKAGE. PROVIDE OPEN FRONT TOILET SEAT TO MATCH EQUIPMENT. PROVIDE ALL ACCESSORIES FOR COMPLETE UNIT INSTALLATION. |
| (P-2)        | AMERICAN STANDARD MODEL NUMBER 3451.576.020 FLOOR MOUNTED TOP SPUD 1.1-1.6 GPF TOILET, BATTERY POWERED AUTOMATIC FLUSH VALVE INCLUDED IN PACKAGE. PROVIDE OPEN FRONT TOILET SEAT TO MATCH EQUIPMENT. PROVIDE ALL ACCESSORIES FOR COMPLETE UNIT INSTALLATION.     |
| (P-3)<br>ADA | AMERICAN STANDARD TOP SPUD URINAL .50 GPF MODEL □ 6590.505.020. BATTERY AUTOMATIC FLUSH VALVE INCLUDED IN PACKAGE. PROVIDE ANY OTHER ACCESSORIES NEEDED FOR COMPLETE INSTALLATION.   |
| (P-4)<br>ADA | EXISTING LAVATORY WALL MOUNT TO REMAIN. REPLACE FAUCET WITH TOP-DECK BATTERY POWERED AMERICAN STANDARD MODEL □ 7755.105.775P.400. PROVIDE ANY OTHER ACCESSORIES NEEDED FOR COMPLETE UNIT INSTALLATION. PROVIDE ADA TRAP INSULATION FOR ALL EXISTING LAVATORIES   |
| C.O.         | INTERIOR: ZURN MODEL ZN1400-4NL<br>EXTERIOR: ZURN MODEL Z1400-4NL<br>WALL: ZURN MODEL Z1441  |
| F.D.         | FLOOR DRAIN ZURN MODEL □ FD2210.   |
| H.B.         | HOSE BIB: ZURN MODEL Z1341   |

□ ACCEPTABLE MANUFACTURERS FOR PLUMBING FIXTURES IN ADDITION TO MANUFACTURERS ALREADY SPECIFIED IN SCHEDULE: ZURN, KHOLER, ELKAY, WATTS, BRADLEY

## FIXTURE CONNECTION SCHEDULE

| DESCRIPTION                | CONNECTION SIZE |           |      |        |
|----------------------------|-----------------|-----------|------|--------|
|                            | WASTE           | C.W.      | H.W. | VENT   |
| SINK                       | 2"              | 1/2"      | 1/2" | 1-1/2" |
| URINAL                     | 2"              | 3/4"      | -    | 1-1/2" |
| LAVATORY                   | 2"              | 1/2"      | 1/2" | 1-1/2" |
| WATER CLOSET (FLUSH VALVE) | 3"              | 1-1/2"    | -    | 1-1/2" |
| SHOWER                     | 3"              | 3/4"      | 3/4" | 1-1/2" |
| MOP BASIN                  | 3"              | 3/4"      | 3/4" | 1-1/2" |
| DRINKING FOUNTAIN          | 2"              | 1/2"      | -    | 1-1/2" |
| FLOOR DRAIN                | 3" OR 4"        | 1/2" T.P. | -    | 1-1/2" |
| TRAP PRIMER UNIT           | -               | 1/2"      | -    | -      |

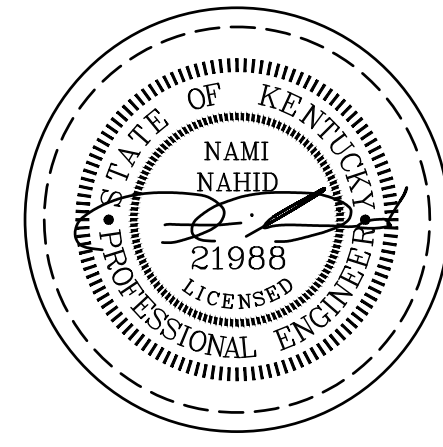
NOTE: FIXTURE CONNECTION SCHEDULE SHALL BE USED FOR TYPICAL CONNECTION. SEE RISER AND PLANS FOR ADDITIONAL WASTE, CW, HW, AND VENT SIZES.

## DEMO NOTES:

- EXISTING 3/4" MIXED WATER BRANCH TO REMAIN. CONTRACTOR TO FIELD VERIFY OPERATION, CONDITION AND LOCATION OF MIXING VALVE ABOVE CEILING. WATER TEMPERATURE NOT TO EXCEED 90 DEGREE AT FAUCET. FIELD VERIFY EXISTING CONDITIONS. REPLACE AS NEEDED FOR COMPLETE INSTALL.
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## NEW WORK NOTES:

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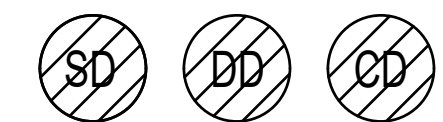
DESIGN PROFESSIONAL



PLAN REVIEWER

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|      |                        |
|------|------------------------|
| BY   | ACE                    |
| DATE | 02/18/2021             |
| SET  | CONSTRUCTION DOCUMENTS |



| REVISION  | DESCRIPTION          |
|-----------|----------------------|
| Δ DDM/YYY | REVISION DESCRIPTION |



**TODD COUNTY  
CENTRAL HIGH SCHOOL  
RENOVATION 2020**  
806 SOUTH MAIN ST.  
ELKTON, KENTUCKY 42220  
CONTRACT 20200821

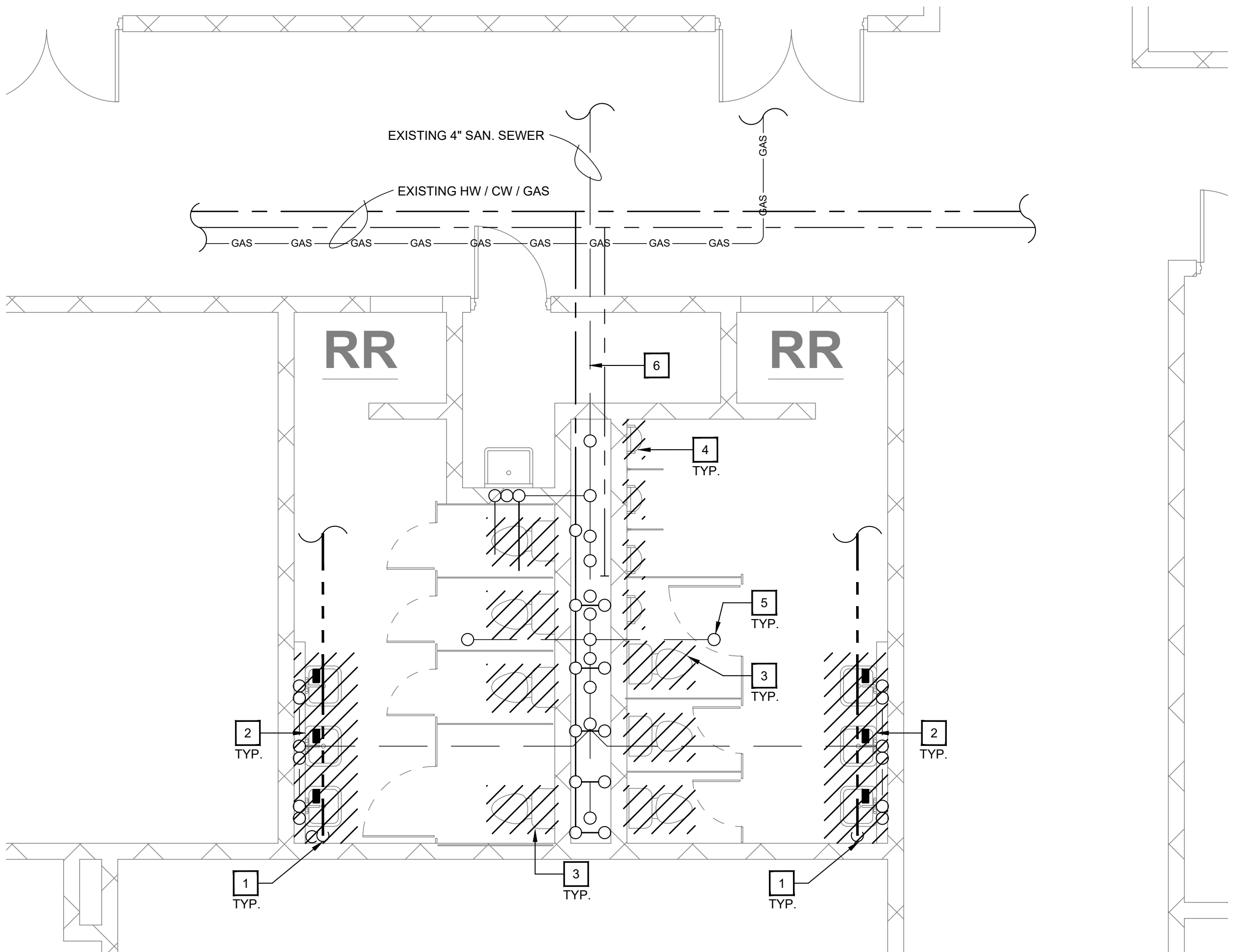
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PLUM IN  
ENLAR ED FLOOR PLAN

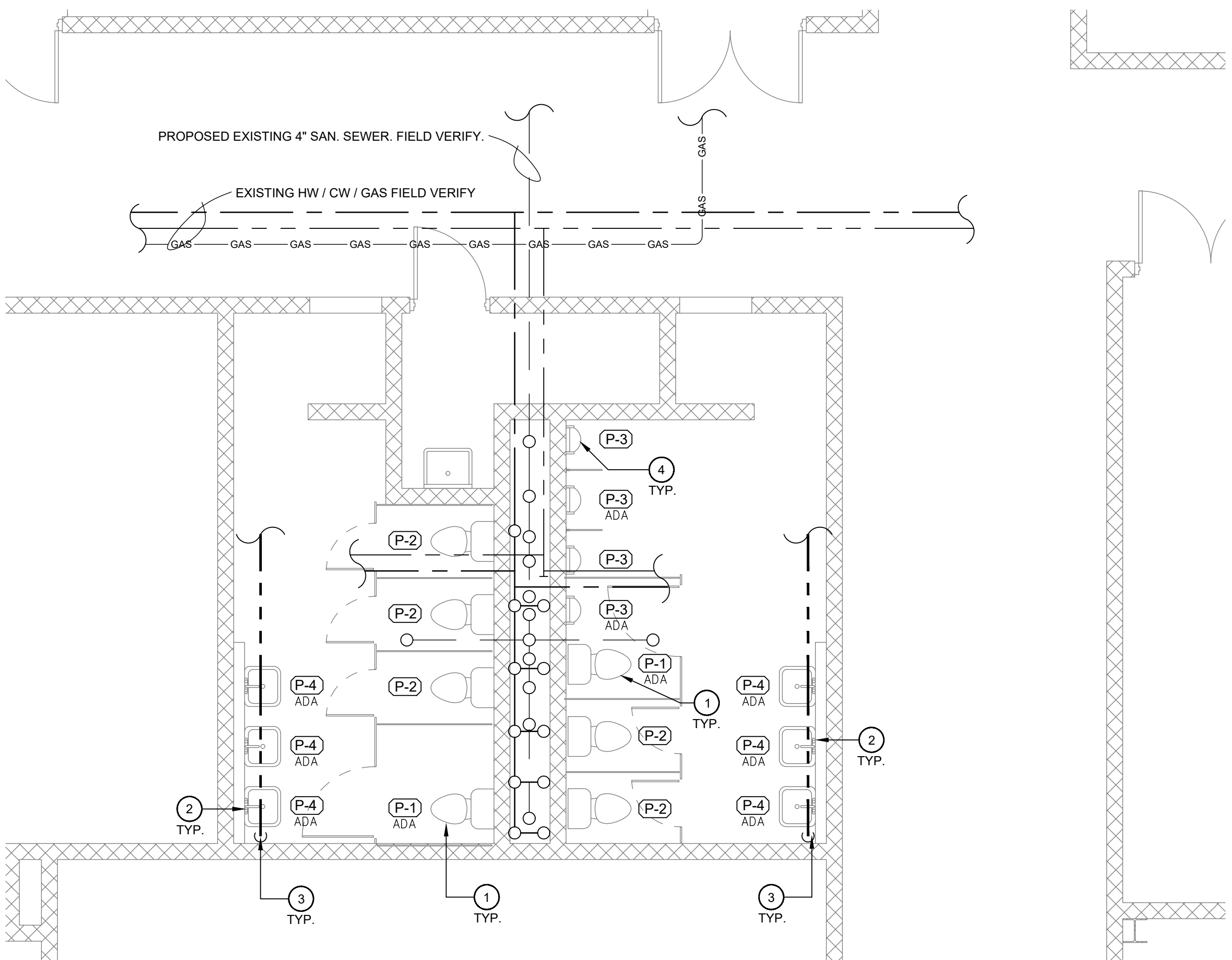
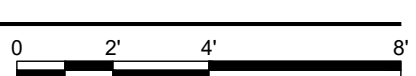
# P1.02

PLUM IN



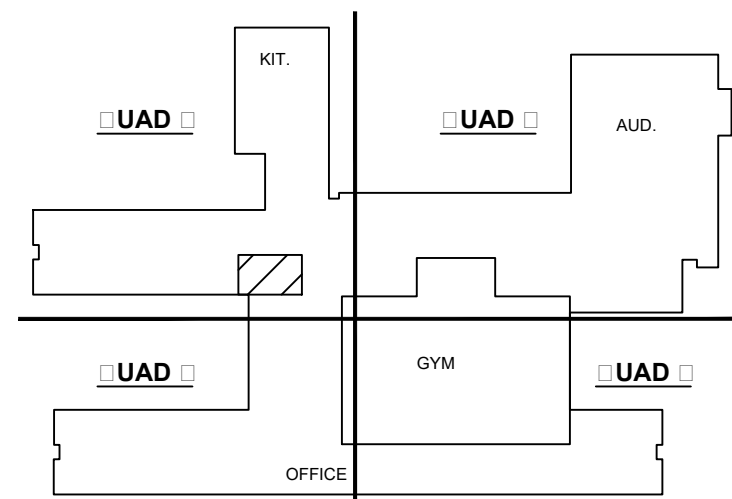
## 1 ENLARGED FLOOR PLAN - TOILET CAFE - DEMO

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



## 2 ENLARGED FLOOR PLAN - TOILET CAFE - NEW WORK

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



## KEY PLAN

NOT TO SCALE



ELECTRICAL LEGEND - LIGHTING

| SYMBOL | DESCRIPTION   |
|--------|---|
|        | CEILING OUTLET AND LIGHTING FIXTURE AS SCHEDULED.   |
|        | CEILING OUTLET AND LIGHTING FIXTURE AS SCHEDULED.   |
|        | CEILING OUTLET AND LIGHTING FIXTURE AS SCHEDULED.   |
|        | REMOTE HEAD, CONTROLLED BY EXIT LIGHT.  |
|        | CEILING OUTLET AND LIGHTING FIXTURE AS SCHEDULED.   |
|        | WALL OUTLET AND LIGHTING FIXTURE AS SCHEDULED.  |
|        | WALL MOUNTED EMERGENCY LIGHT AS SCHEDULED.  |
|        | WALL OUTLET AND LIGHTING FIXTURE AS SCHEDULED.  |
|        | SYMBOL INDICATES FIXTURE TYPE WHEN SHOWN ON LIGHTING PLANS ADJACENT TO FIXTURE SYMBOL. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE REQUIREMENTS.   |
|        | OUTLET BOX AND 20-AMP, SINGLE-POLE SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.  |
|        | OUTLET BOX AND 20-AMP, THREE-WAY SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.  |
|        | OUTLET BOX AND 20-AMP, FOUR-WAY SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.   |
|        | OUTLET BOX AND 20-AMP, SINGLE-POLE DIMMER SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.   |
|        | OUTLET BOX AND 20-AMP, THREE-WAY DIMMER SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.   |
|        | OUTLET BOX AND 20-AMP, COMBINATION SWITCH AND OCCUPANCY SENSOR. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. OTHER TEXT INDICATES SWITCH CONFIGURATION AND CIRCUIT SWITCHED AS OTHER NON-OCCUPANCY SENSOR SWITCHES. |
|        | OUTLET BOX AND 10-AMP, COMBINATION SWITCH AND LOW-VOLTAGE (0-10V) DIMMER. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. OTHER TEXT INDICATES SWITCH CONFIGURATION AND CIRCUIT SWITCHED AS OTHER NON-DIMMER SWITCHES. |
|        | CEILING-MOUNT OCCUPANCY SENSOR. THE LETTER(S) DESIGNATION ADJACENT TO THE SYMBOL (IF SHOWN) INDICATE SWITCHING ZONES TO BE CONTROLLED BY THE SENSOR. IF A LETTER DESIGNATION IS NOT SHOWN, THE SENSOR SHALL CONTROL ALL LIGHTING FIXTURES WITHIN THE ROOM.  |
|        | WALL-MOUNT OCCUPANCY SENSOR. THE LETTER(S) DESIGNATION ADJACENT TO THE SYMBOL (IF SHOWN) INDICATE SWITCHING ZONES TO BE CONTROLLED BY THE SENSOR. IF A LETTER DESIGNATION IS NOT SHOWN, THE SENSOR SHALL CONTROL ALL LIGHTING FIXTURES WITHIN THE ROOM.   |

| SYMBOL | DESCRIPTION  |
|--------|--|
|        | VOICE/DATA OUTLET. MOUNT OUTLET BOX AT 18 INCHES A.F.F. TO CENTER (EVEN WITH ADJACENT RECEPTACLE IF PRESENT) OR 8 INCHES ABOVE COUNTER OR COUNTER BACKSPLASH TO CENTER, UNLESS NOTED OTHERWISE. PROVIDE 1 INCH CONDUIT WITH PULLSTRING FROM OUTLET BOX TO NEAREST ACCESSIBLE CEILING CAVITY. BUSH CONDUIT ENDS. OUTLET BOX SHALL BE 4 INCH SQUARE BY 2-3/4 INCH DEEP WITH A SINGLE GANG PLASTER RING, UNLESS NOTED OTHERWISE. "W" TEXT ADJACENT TO SYMBOL DENOTES WALL PHONE LOCATION (MOUNT AT 56 INCHES A.F.F. TO CENTER). WHERE SHOWN ADJACENT TO A POWER RECEPTACLE, INSTALL OUTLET AT SAME HEIGHT, WITHIN 6 INCHES OF RECEPTACLE, UNLESS OTHERWISE NOTED. |
|        | VIDEO MONITOR OUTLET. MOUNT OUTLET BOX AT 18 INCHES A.F.F. TO CENTER (EVEN WITH ADJACENT RECEPTACLE). PROVIDE 1 INCH CONDUIT FROM OUTLET BOX TO NEAREST ACCESSIBLE ATTIC SPACE. BUSH CONDUIT ENDS. OUTLET BOX SHALL BE 4 INCH SQUARE BY 2-3/4 INCH DEEP WITH A SINGLE GANG PLASTER RING, UNLESS NOTED OTHERWISE.   |
|        | CEILING MOUNTED COMMUNICATIONS OUTLET BOX FOR WIRELESS ACCESS POINT. OUTLET BOX SHALL BE FOUR INCHES WITH A SINGLE GANG PLASTER RING.  |

ELECTRICAL LEGEND - POWER

| SYMBOL | DESCRIPTION  |
|--------|--|
|        | WALL OUTLET WITH 20A, 125V DUPLEX RECEPTACLE. MOUNT 18 INCHES ABOVE FINISHED FLOOR TO TO CENTER, UNLESS NOTED OTHERWISE.   |
|        | WALL OUTLET WITH 20A, 125V DUPLEX RECEPTACLE. MOUNT 48 INCHES ABOVE FINISHED FLOOR TO TO CENTER, OR 8 INCHES ABOVE COUNTER OR COUNTER BACKSPLASH TO CENTER, UNLESS NOTED OTHERWISE.        |
|        | CEILING MOUNTED OUTLET WITH 20A, 125V DUPLEX RECEPTACLE.   |
|        | WALL OUTLET WITH 20A, 125V DOUBLE-DUPLEX RECEPTACLE. MOUNT 18 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE.   |
|        | WALL OUTLET WITH 20A, 125V DOUBLE-DUPLEX RECEPTACLE. MOUNT 48 INCHES ABOVE FINISHED FLOOR TO TO CENTER, OR 8 INCHES ABOVE COUNTER OR COUNTER BACKSPLASH TO CENTER, UNLESS NOTED OTHERWISE. |
|        | WALL OUTLET WITH SIMPLEX RECEPTACLE AS NOTED ON POWER PLANS.   |
|        | FLOOR OUTLET WITH DUPLEX RECEPTACLE AND 2 PORT DATA OUTLET.  |
|        | FLOOR OUTLET WITH DOUBLE-DUPLEX RECEPTACLE AND 2 PORT DATA OUTLET.   |
|        | SYMBOL INDICATES GROUND FAULT CIRCUIT INTERRUPTER TYPE RECEPTACLE WHEN SHOWN ADJACENT TO RECEPTACLE SYMBOL ON PLANS.   |
|        | SYMBOL INDICATES WETHER-PROOF WHILE-IN-USE TYPE ENCLOSURE WHEN SHOWN ADJACENT TO RECEPTACLE SYMBOL ON PLANS.   |
|        | NUMBER TEXT INDICATES CIRCUIT NUMBERS WHEN SHOWN ADJACENT TO SYMBOLS ON PLAN.  |
|        | LOWER-CASE LETTER TEXT INDICATES CIRCUIT SWITCHING ARRANGEMENT WHEN SHOWN WITHIN OR ADJACENT TO SYMBOLS ON PLAN.   |
|        | NUMBER TEXT INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTER OF OUTLET BOX WHEN SHOWN ADJACENT TO SYMBOLS ON PLAN.   |
|        | WALL-MOUNT JUNCTION BOX AS NOTED ON PLANS.   |
|        | CEILING-MOUNT JUNCTION BOX AS NOTED ON PLANS.  |
|        | JUNCTION BOX WITH PHOTO EYE.   |
|        | WALL-MOUNT PUSH BUTTON FOR ADA DOORS. MOUNTED AT ADA REQUIRED HEIGHTS.   |
|        | NON-FUSIBLE DISCONNECT SWITCH. TEXT INDICATES AMP AND ENCLOSURE RATINGS.   |
|        | FUSIBLE DISCONNECT SWITCH. TEXT INDICATES AMP AND ENCLOSURE RATINGS.   |
|        | COMBINATION MOTOR STARTER AND DISCONNECT WITH THERMAL OVERLOADS.   |
|        | CIRCUIT. NUMBER OF CROSSBARS INDICATE QUANTITY OF CONDUCTORS REQUIRED. MINIMUM CONDUIT SIZE SHALL BE 3/4 INCH TRADE SIZE. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG.                         |
|        | HOME RUN TO PANEL. NUMBER OF ARROW HEADS INDICATES NUMBER OF CIRCUITS. PREFIX INDICATES PANEL NOMENCLATURE. NUMBERS INDICATE CIRCUIT NUMBERS.  |

| FIRE ALARM LEGEND  |   |                                 |
|--|---|---------------------------------|
| TAG  | DESCRIPTION                               | MOUNTING                        |
|  | PHOTO ELECTRIC SMOKE DETECTOR             | REPLACE CURRENT                 |
|  | AUDIO VISUAL NOTIFICATION DEVICE          | REPLACE CURRENT                 |
|  | VISUAL NOTIFICATION DEVICE                | REPLACE CURRENT                 |
|  | HEAT DETECTOR ROR AND FIXED               | REPLACE CURRENT                 |
|  | MANUAL PULL STATION                       | REPLACE CURRENT                 |
|  | ADDRESSABLE FIRE ALARM CONTROL PANEL      | REPLACE CURRENT                 |
|  | NOTIFICATION DEVICE POWER SUPPLY          | REPLACE CURRENT                 |
|  | ANNUNCIATOR PANEL                         | REPLACE CURRENT                 |
|  | AUDIO-VISUAL NOTIFICATION DEVICE          | SINGLE GANG 80/8P TO BOTTOM AFF |
|  | NEW LOCATION - VISUAL NOTIFICATION DEVICE | SINGLE GANG 80/8P TO BOTTOM AFF |
|  | NEW LOCATION - MANUAL PULL STATION        | SINGLE GANG 42" TO BOTTOM AFF   |
|  | SPRINKLER WATERFLOW MONITOR               | REPLACE CURRENT                 |
|  | SPRINKLER TAMPER VALVE MONITOR            | REPLACE CURRENT                 |
| 1. Existing fire alarm device location. Remove device and wiring. Install blank cover plate. |   |                                 |

| PA SYSTEM LEGEND |   |                                 |
|------------------|---|---------------------------------|
| TAG              | DESCRIPTION   | MOUNTING                        |
| INT              | INTERCOM HEADEND - REPLACE WITH QUANTITY OF ZONES AND AMPLIFIERS TO ACCOMMODATE SYSTEM. MINIMUM 64 ROOM POINTS WITH CLASSROOM CALL-IN. INTERCOM SYSTEM PHONE - PERFORM FUNCTIONS OF NEW INTERCOM SYSTEM | DESK MOUNT                      |
| DP               | DOOR PHONE - CALL IN STATION TO RING OFFICE INTERCOM PHONE  | SURFACE MOUNT 44" TO BOTTOM AFF |
|                  | EXISTING INTERCOM SPEAKER, REUSE SPEAKER AND EXISTING CABLING.  | CEILING                         |
| CB               | CLASSROOM CALL IN BUTTON - NEW LOCATION   | SINGLE GANG                     |
|                  | VANDAL RESISTANT SURFACE MOUNT SPEAKER - NEW LOCATION   | SURFACE                         |
|                  | 2X2 LAY-IN CEILING SPEAKER - NEW LOCATION   | CEILING                         |
| H                | OUTDOOR HORN - NEW LOCATION   | SURFACE                         |

| ACCESS CONTROL LEGEND  |                          |                                 |
|--|--------------------------|---------------------------------|
| TAG  | DESCRIPTION              | MOUNTING                        |
|  | WIRELESS LOCKSET         | REPLACE CURRENT LOCKSET         |
|  | PANEL INTERFACE MODULE   | SURFACE MOUNT ABOVE CEILING     |
|  | CARD READER              | SINGLE GANG 44" TO BOTTOM AFF   |
|  | ELECTRONIC DOOR HARDWARE | NA                              |
|  | REQUEST TO EXIT DEVICE   | SINGLE GANG ABOVE DOOR HEADER   |
|  | DOOR POSITION SWITCH     | 3/4" HOLE IN FRAME AND DOOR     |
|  | DOOR POWER SUPPLY        | SURFACE MOUNT 48" TO BOTTOM AFF |
|  | ACCESS CONTROL HEADEND   | SURFACE MOUNT 48" TO BOTTOM AFF |
| 1. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR DOOR HARDWARE. |                          |                                 |

| CCTV LEGEND |   |                            |
|-------------|---|----------------------------|
| TAG         | DESCRIPTION   | MOUNTING                   |
|             | OUTDOOR BULLET CAMERA - SMP                             | SURFACE MOUNT BOX INCLUDED |
|             | INDOOR DOME CAMERA - SMP                                | CEILING MOUNT              |
|             | FISHEYE CAMERA - 12MP                                   | CEILING MOUNT              |
|             | NMS SERVER - HDD AND CHANNELS TO ACCOMADATE ALL CAMERAS | RACK MOUNT                 |

| HAND DRYER SCHEDULE |  |              |          |           |                       |   |
|---------------------|--|--------------|----------|-----------|-----------------------|---|
| SYMBOL              | DESCRIPTION                              | MANUFACTURER | SERIES   | WATTAGE   | VOLTAGE               | REMARKS   |
|                     | ADA COMPLIANT SURFACE MOUNTED HAND DRYER | EXCEL        | THIN-AIR | 375 WATTS | 110V/120V OR 208-277V | 1. COORDINATE DRYER MODEL, FINISH, AND ACCESSORY SELECTIONS WITH THE OWNER .  |
|                     |  | WORLD DRYER  | SLIMDRI  | 300 WATTS | 120/208/240V          | 2. HAND DRYER SHALL BE INSTALLED WITH NO HEAT OPTION/HEAT OFF OPTION.   |
|                     |  | SLOAN        | OPTIMA   | 375 WATTS | 110V/120V OR 208-277V | 3. HAND DRYER POWER SUPPLY SELECTION SHALL MATCH CIRCUITRY INDICATED ON SHEET E1.03 AND PANEL SCHEDULES ON SHEET E0.01. |
|                     |  |              |          |           |                       | 4. HAND DRYERS SHALL BE INSTALLED AT ADA HEIGHT, PER MANUFACTURER RECOMMENDATIONS.                                      |

| OCCUPANCY SENSOR SCHEDULE |   |              |        |                    |                     |  |
|---------------------------|---|--------------|--------|--------------------|---------------------|--|
| SYMBOL                    | DESCRIPTION   | MANUFACTURER | SERIES | MAX. LOAD          | VOLTAGE             | REMARKS  |
|                           | DUAL TECHNOLOGY LINE VOLTAGE CEILING SENSOR, LITHONIA | WATTSTOPPER  | DT-355 | 800 WATTS @ 120VAC | 120/230/277/347 VAC | 1. COORDINATE OCCUPANCY SENSOR SELECTION AND FINISH WITH THE OWNER . |
|                           |   | CMR PDT 9    |        | 800 WATTS @ 120VAC | 120/277VAC          | 2. OCCUPANCY SENSORS SHALL BE INSTALLED TO SWITCH A 120VAC LINE      |
|                           |   | HUBBELL      | OMNI   | 16 AMPS @ 120VAC   | 120-277VAC          |  |

| LIGHTING FIXTURE SCHEDULE |   |                               |                       |                              |                             |                   |                    |         |                         |               |           |               |   |
|---------------------------|---|-------------------------------|-----------------------|------------------------------|-----------------------------|-------------------|--------------------|---------|-------------------------|---------------|-----------|---------------|---|
| SYMBOL                    | DESCRIPTION   | MANUFACTURER                  | FIXTURE SERIES        | TYPE                         | LAMP<br>QTY. PER<br>FIXTURE | WATTS             | FIXTURE<br>VOLTAGE | BALLAST | MOUNTING                | LIGHT CONTROL |           |               | REMARKS   |
|                           |   |                               |                       |                              |                             |                   |                    |         |                         | LENS          | REFLECTOR | LOUVER FINISH |   |
| F1                        | ROUND HIGH BAY  | ATLANTIC INDUSTRIAL HOLOPHANE | A1HB31C310X20U5KLLW   | LED 5000K 78000 HOURS L70    | AS REQD.                    | 197 SYSTEM WATTS  | 120-277V           | ---     | SINGLE POINT SUSPENSION | UPLIGHT       | WH        | WH            | 1. COORDINATE STYLE & FINISH WITH THE OWNER.    |
|                           |   | DIGITAL LUMENS                | RLE-D15T/HV           |                              |                             |                   |                    |         |                         |               |           |               |   |
|                           |   |                               |                       |                              |                             |                   |                    |         |                         |               |           |               |   |
| F2                        | ROUND HIGH BAY  | ATLANTIC INDUSTRIAL HOLOPHANE | A1HB31C36X20U5KLLW    | LED 5000K 78000 HOURS L70    | AS REQD.                    | 123 SYSTEM WATTS  | 120-277V           | ---     | SINGLE POINT SUSPENSION | UPLIGHT       | WH        | WH            | 1. COORDINATE STYLE & FINISH WITH THE OWNER.    |
|                           |   | DIGITAL LUMENS                | RLE-D15T/HV           |                              |                             |                   |                    |         |                         |               |           |               | 2. TO BE INSTALLED WITH EMERGENCY BATTERY PACK. |
|                           |   |                               |                       |                              |                             |                   |                    |         |                         |               |           |               |   |
| F4                        | 1X4 LED PANEL.  | HE WILLIAMS                   | LP14L401835LP1425LUNV | LED 3500K 50000 HOURS L80    | AS REQD.                    | 39.7 SYSTEM WATTS | 120-277V           | ---     | SUSPENDED CEILING       | GRID          | WH        | WH            | 1. COORDINATE STYLE & FINISH WITH THE OWNER.    |
|                           |   | TRACE LITE                    | LPA14-CP-LP14SL-UNV   |                              |                             |                   |                    |         |                         |               |           |               |   |
|                           |   | GENERAL ELECTRIC              | LPL14B03XMM835VQLWH   |                              |                             |                   |                    |         |                         |               |           |               |   |
| F5                        | 2X2 FLAT PANEL.   | WILLIAMS                      | LP-22                 | LED 4000K 4000 LUMENS 80 CRI | AS REQD.                    | 34 SYSTEM WATTS   | 120-277V           | ---     | RECESSED CEILING        | ---           | ---       | ---           | 1. COORDINATE STYLE & FINISH WITH THE OWNER.    |
|                           |   | BARRON TRACE-LITE             | LPA22                 |                              |                             |                   |                    |         |                         |               |           |               |   |
|                           |   | C-LITE                        | C-TR-C-FP22           |                              |                             |                   |                    |         |                         |               |           |               |   |
| F5E                       | 2X2 FLAT PANEL.   | WILLIAMS                      | LP-22                 | LED 4000K 4000 LUMENS 80 CRI | AS REQD.                    | 34 SYSTEM WATTS   | 120-277V           | ---     | RECESSED CEILING        | ---           | ---       | ---           | 1. COORDINATE STYLE & FINISH WITH THE OWNER.    |
|                           |   | BARRON TRACE-LITE             | LPA22                 |                              |                             |                   |                    |         |                         |               |           |               | 2. TO BE INSTALLED WITH EMERGENCY BATTERY PACK. |
|                           |   | C-LITE                        | C-TR-C-FP22           |                              |                             |                   |                    |         |                         |               |           |               |   |
| F6                        | 2X4 FLAT PANEL.   | WILLIAMS                      | LP-24                 | LED 4000K 5000 LUMENS 80 CRI | AS REQD.                    | 43 SYSTEM WATTS   | 120-277V           | ---     | RECESSED CEILING        | ---           | ---       | ---           | 1. COORDINATE STYLE & FINISH WITH THE OWNER.    |
|                           |   | BARRON TRACE-LITE             | LPA24                 |                              |                             |                   |                    |         |                         |               |           |               | 2. TO BE INSTALLED WITH EMERGENCY BATTERY PACK. |
|                           |   | C-LITE                        | C-TR-C-FP24           |                              |                             |                   |                    |         |                         |               |           |               |   |
| F6E                       | SAME FIXTURE AS SCHEDULED ABOVE, EXCEPT WITH EMERGENCY BACKUP OPTION. | WILLIAMS                      | LP-24                 |                              |                             |                   |                    |         |                         |               |           |               | 1. COORDINATE STYLE & FINISH WITH THE OWNER.    |
|                           |   | BARRON TRACE-LITE             | LPA24                 |                              |                             |                   |                    |         |                         |               |           |               | 2. TO BE INSTALLED WITH EMERGENCY BATTERY PACK. |
|                           |   | C-LITE                        | C-TR-C-FP24           |                              |                             |                   |                    |         |                         |               |           |               |   |

GENERAL NOTES:

- ALL WORK SHALL BE DONE BY A LICENSED CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOBSITE SAFETY, INCLUDING REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR, UNLESS NOTES OTHERWISE.
- THERE SHALL BE NOTHING ABANDONED IN PLACE, UNLESS SPECIFICALLY IDENTIFIED AS SUCH.
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, INCLUDING ADDENDA, AND APPLICABLE CODES AND STANDARDS.
- ALL TRADES SHALL COORDINATE THE ROUTING AND INSTALLATION OF HIS WORK WITH THAT OF ALL OTHER TRADES THROUGH THE GENERAL CONTRACTOR.
- PROVIDE ALL EQUIPMENT, MATERIAL, LABOR, SUPERVISION, COST, AND SERVICES REQUIRED TO INSTALL COMPLETE AND WORKING SYSTEMS, INCLUDING ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE, INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFIED OR SHOWN.
- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES, INCLUDING THE NEC.
- SECURITY CONTRACTOR IS RESPONSIBLE FOR RACEWAYS, WIREWAYS, AND CONDUIT REQUIRED FOR THE INSTALLATION OF SECURITY DEVICES.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.

DESIGN PROFESSIONAL

MECHANICAL - ELECTRICAL - PLUMBING  
DO JUSTLY, LOVE MERCY AND WALK HUMBLLY  
1505 SAGE GREEN WAY, SUITE 113  
BOWLING GREEN, KY 42304  
270-998-9182

PLAN REVIEWER

IF NO STAMP IS PRESENT, PLAN REVIEW MAY BE PENDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL PERMITS AND APPROVALS ARE OBTAINED PRIOR TO COMMENCING WORK.

BY: KEL - EJS

DATE: 02/18/2021

SET: CONSTRUCTION DOCUMENTS

REVISION DESCRIPTION

DDDMMYYYY REVISION DESCRIPTION

ARCHITECTS  
Somerset, Kentucky  
(606)687 - 9233  
www.decoarchitects.co

TODD COUNTY  
CENTRAL HIGH SCHOOL  
RENOVATION 2020

806 SOUTH MAIN ST.  
ELKTON, KENTUCKY 42220

CONTRACT 20200821

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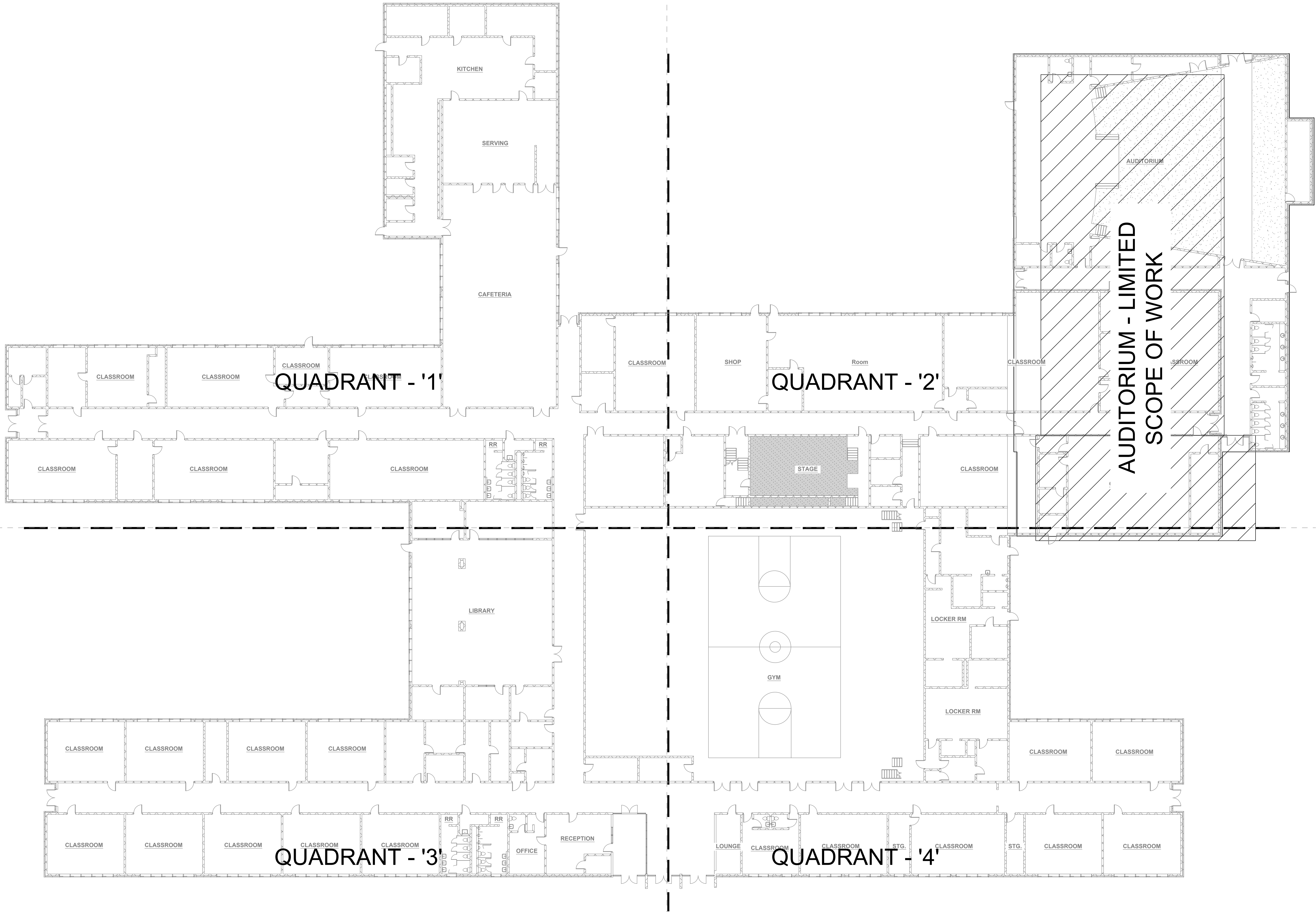
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ELECTRICAL SCHEDULES & LEGENDS

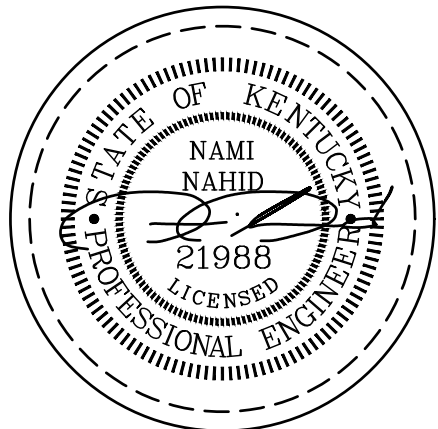
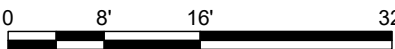
E0.01

ELECTRICAL





1 OVERALL QUADRANT LAY-OUT - FLOOR PLAN  
SCALE: 1/16"=1'-0"



DESIGN PROFESSIONAL



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|------|------------------------|
| BY   | KEL - EJS              |
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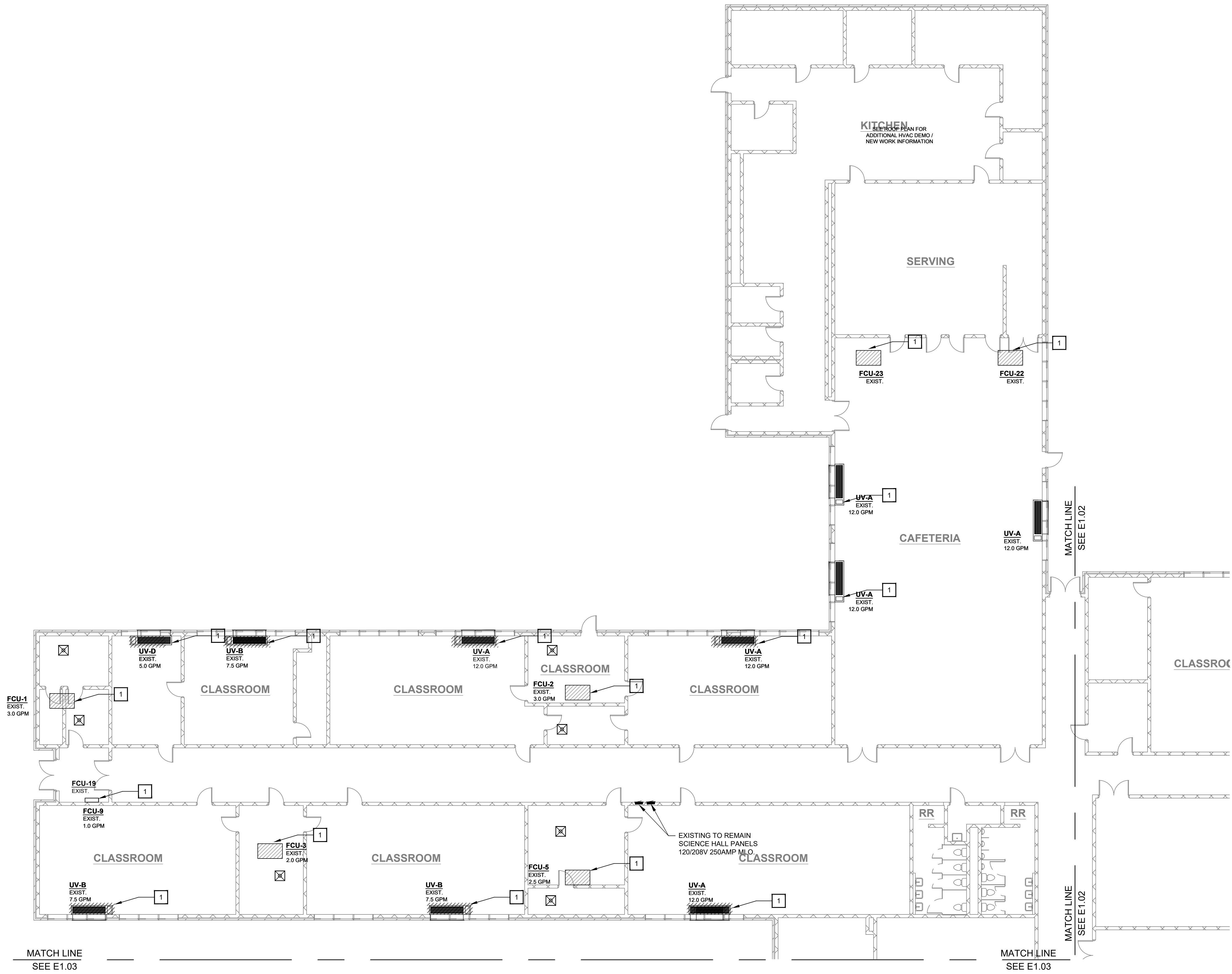
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ELECTRICAL  
OVERALL PLAN

E1.00

ELECTRICAL





MATCH LINE  
SEE E1.03

MATCH LINE  
SEE E1.03

MATCH LINE  
SEE E1.02

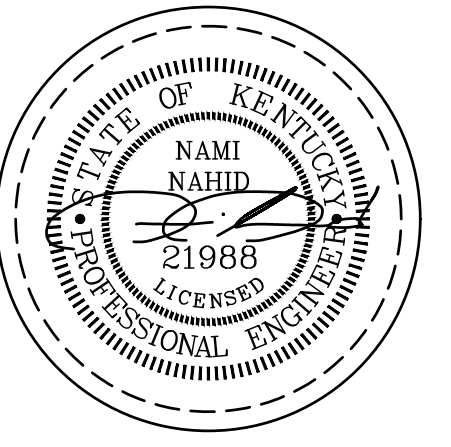
MATCH LINE  
SEE E1.02

1 QUADRANT '2' - ENLARGED FLOOR PLAN  
SCALE: 3/32"=1'-0"

# DEMO NOTES:

1. DISCONNECT EXISTING CIRCUITRY, DISCONNECTS, FROM UNITS, FOR REMOVAL OF UNITS. COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY FURTHER REQUIREMENTS. TYPICAL

- 1a) FIELD VERIFY CONDITION OF EXISTING CIRCUITRY THAT CANBE USED FOR NEW EQUIPMENT TO BE INSTALLED IN THE SAME PLACE AS THE EQUIPMENT REMOVED. TYPICAL



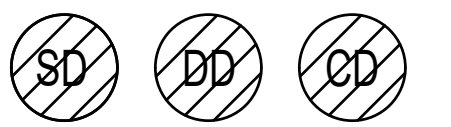
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|------|------------------------|
| BY   | KEL - EJS              |
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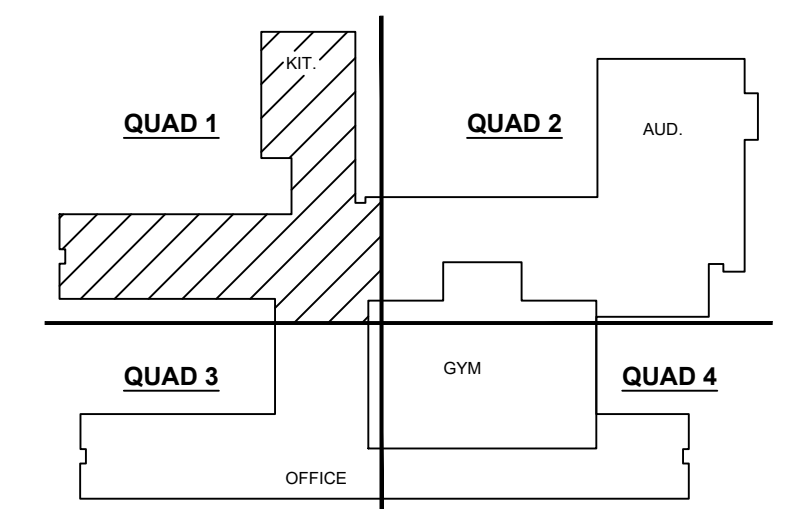
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ELECTRICAL DEMO  
QUADRANT 1

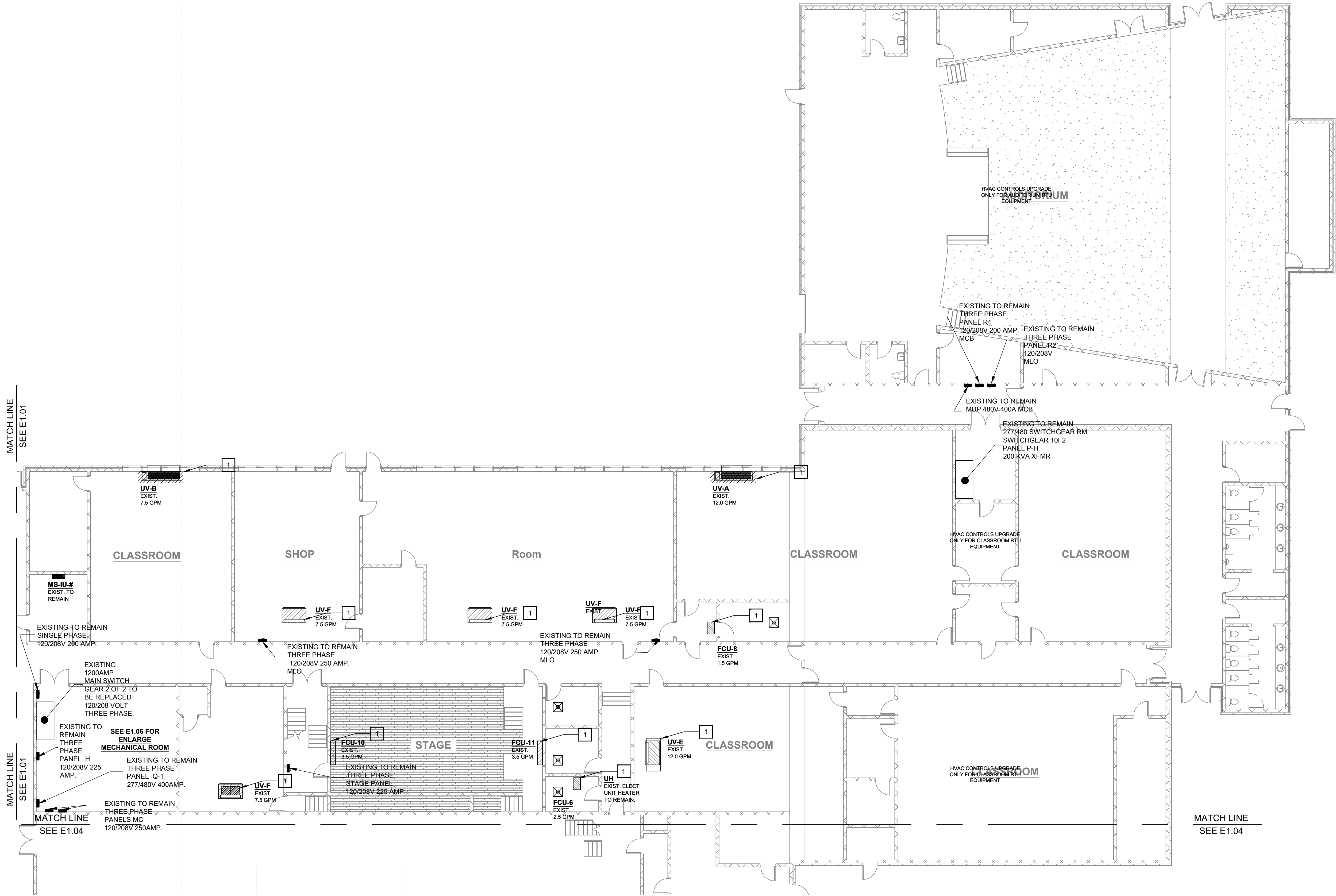
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ELECTRICAL

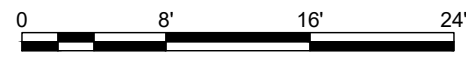


KEY PLAN  
NOT TO SCALE

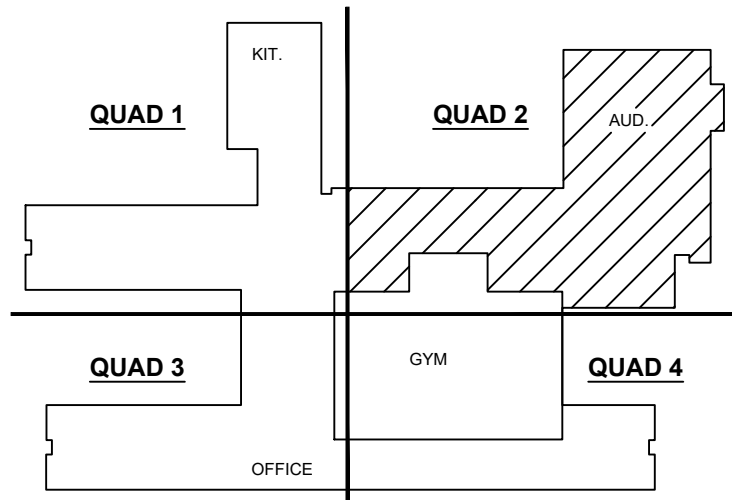




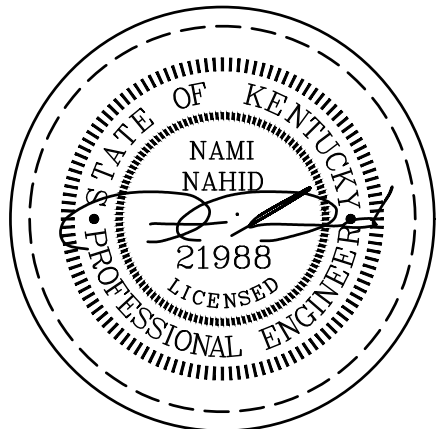
1 QUADRANT '2' - ENLARGED FLOOR PLAN  
SCALE: 3/32"=1'-0"



- # DEMO NOTES:
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KEY PLAN  
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DESIGN PROFESSIONAL



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|      |                        |
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| BY   | KEL - EJS              |
| DATE | 02/18/2021             |
| SET  | CONSTRUCTION DOCUMENTS |



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ELECTRICAL DEMO  
QUADRANT 2

E1.02

ELECTRICAL



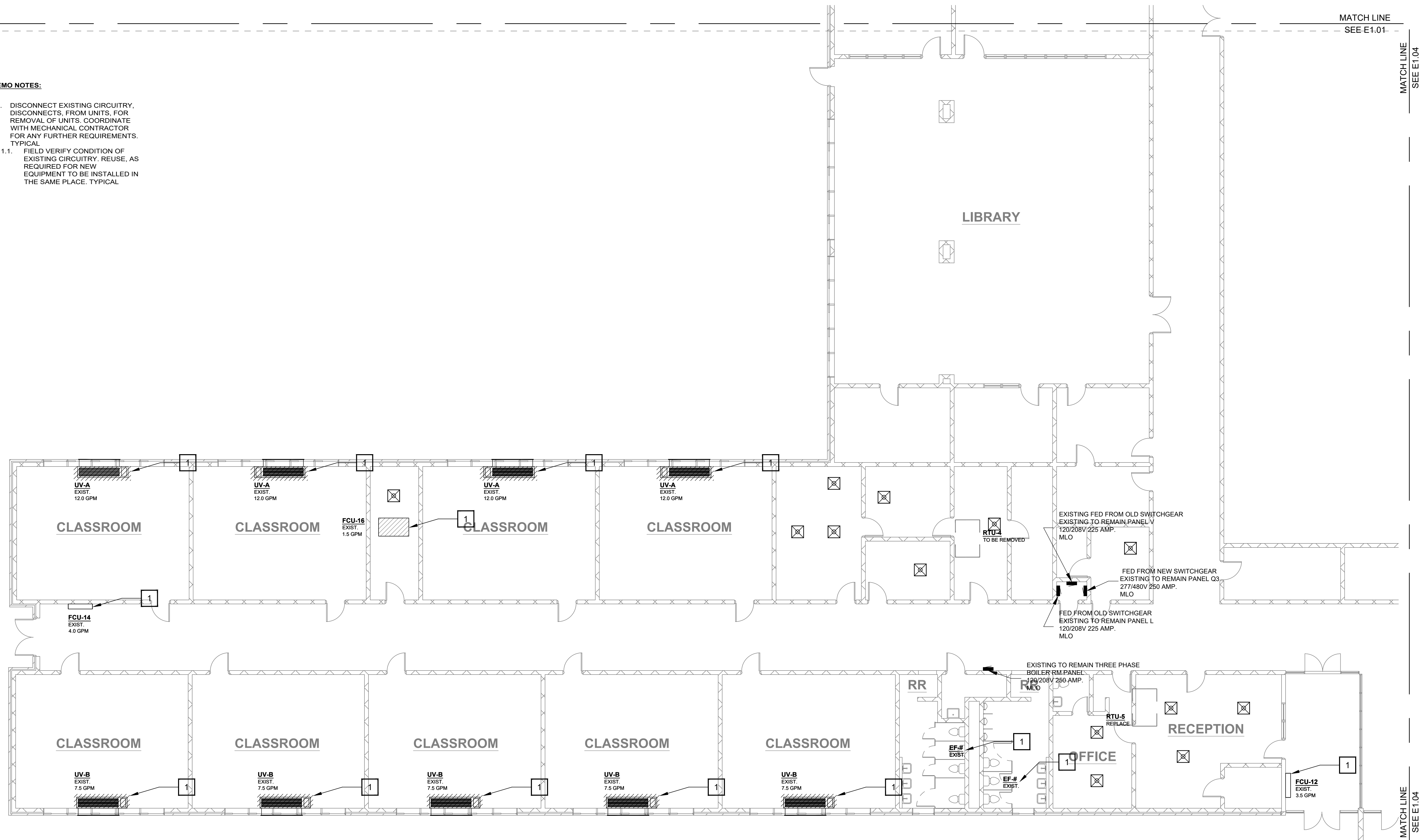
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MATCH LINE  
— SEE E1.01 —

**MATCH LINE**  
**SEE E1.04**

#### # DEMO NOTES:

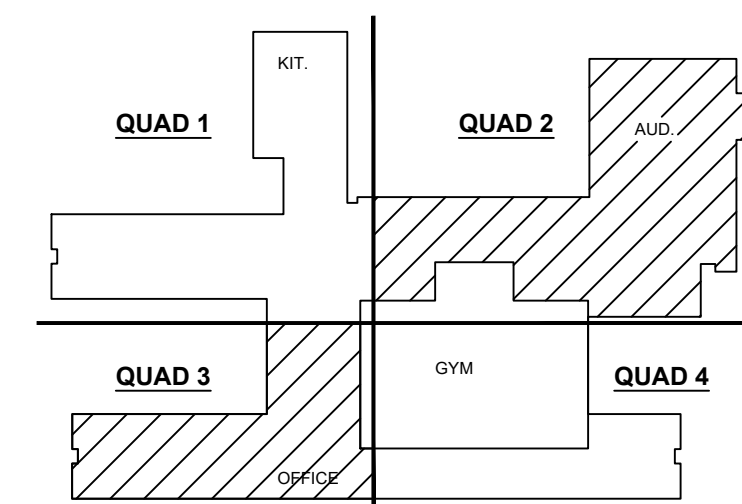
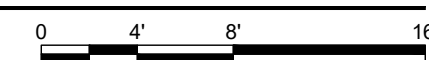
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- 1.1. FIELD VERIFY CONDITION OF EXISTING CIRCUITRY. REUSE, AS REQUIRED FOR NEW EQUIPMENT TO BE INSTALLED IN THE SAME PLACE. TYPICAL



1

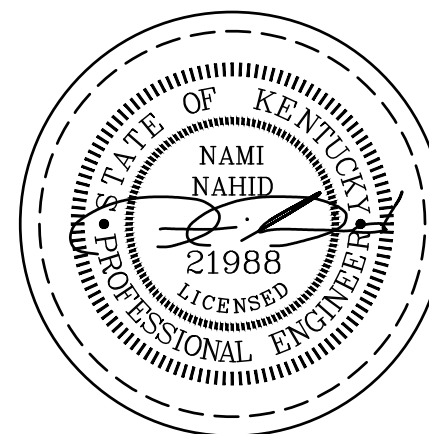
### QUADRANT '3' - ENLARGED FLOOR PLAN

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



## KEY PLAN

NOT TO SCALE



DESIGN PROFESSIONAL



PLAN REVIEWER

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ENSURE THAT ALL PERMITS AND APPROVALS ARE  
OBTAINED PRIOR TO COMMENCING WORK.

|    |           |
|----|-----------|
| BY | KEL - EJS |
|----|-----------|

|      |            |
|------|------------|
| DATE | 02/18/2021 |
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**TODD COUNTY  
CENTRAL HIGH SCHOOL  
RENOVATION 2020**

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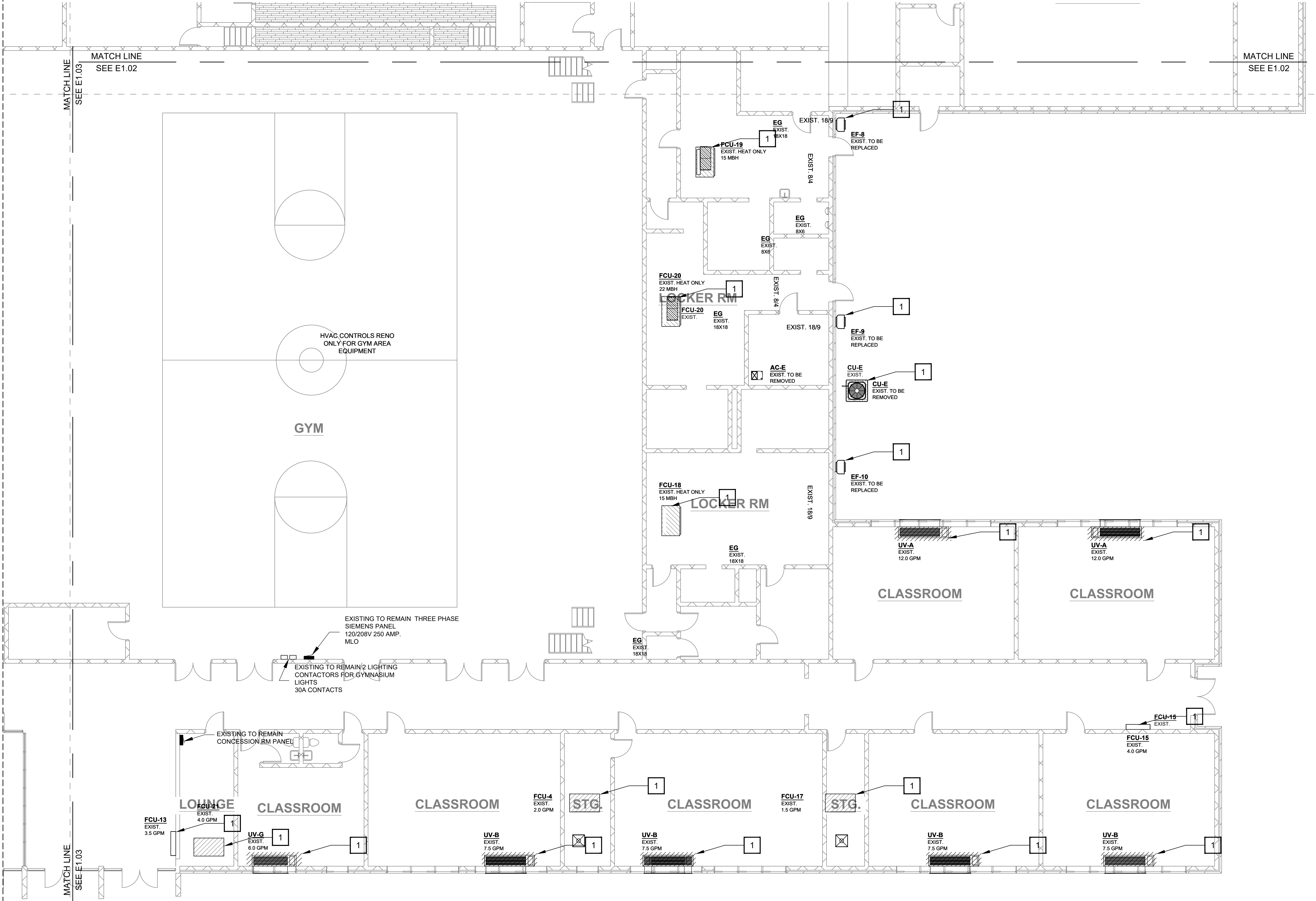
## ELECTRICAL DEMO

### QUADRANT 3

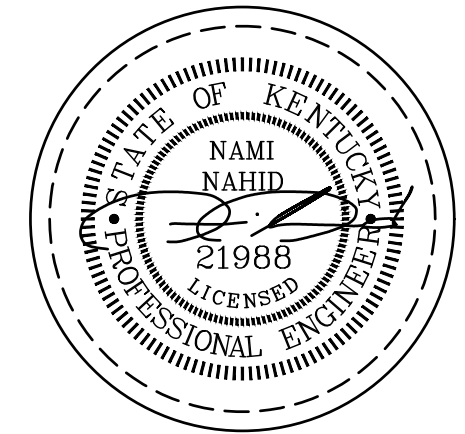
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ELECTRICAL



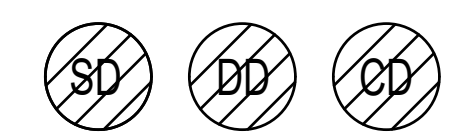


- # DEMO NOTES:
1. DISCONNECT EXISTING CIRCUITRY, DISCONNECTS, FROM UNITS, FOR REMOVAL OF UNITS. COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY FURTHER REQUIREMENTS. TYPICAL
  - 1.1. FIELD VERIFY CONDITION OF EXISTING CIRCUITRY. REUSE, AS REQUIRED FOR NEW EQUIPMENT TO BE INSTALLED IN THE SAME PLACE. TYPICAL



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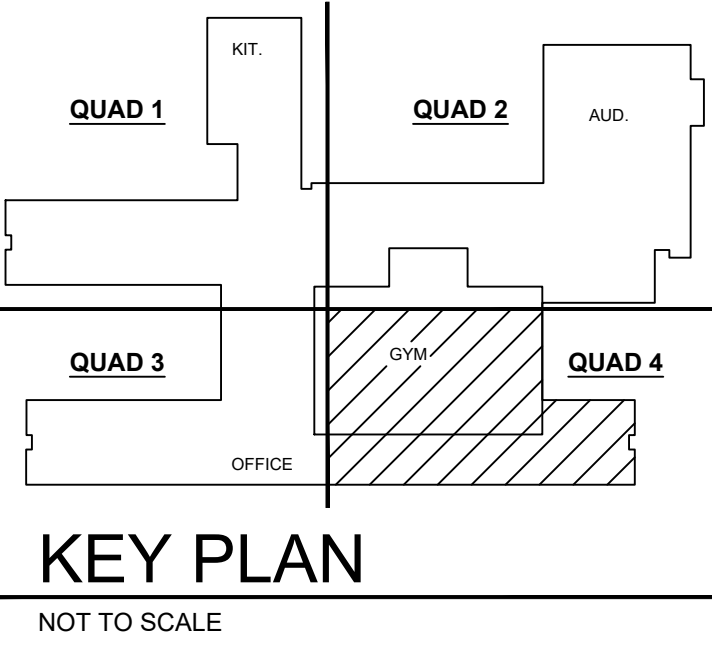
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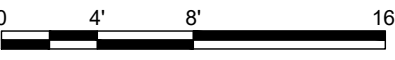
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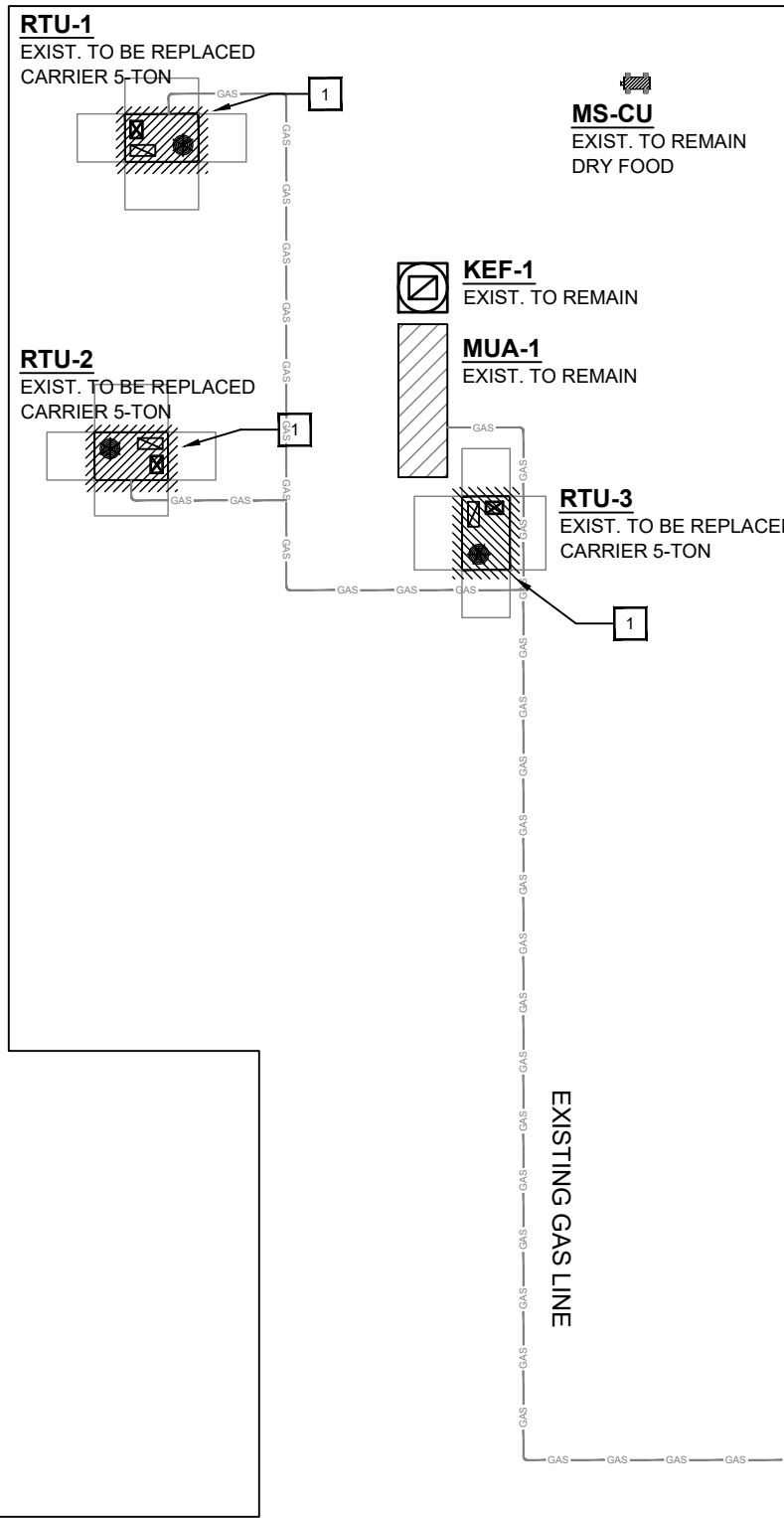
ELECTRICAL DEMO  
QUADRANT 4  
  
**E1.04**  
  
ELECTRICAL



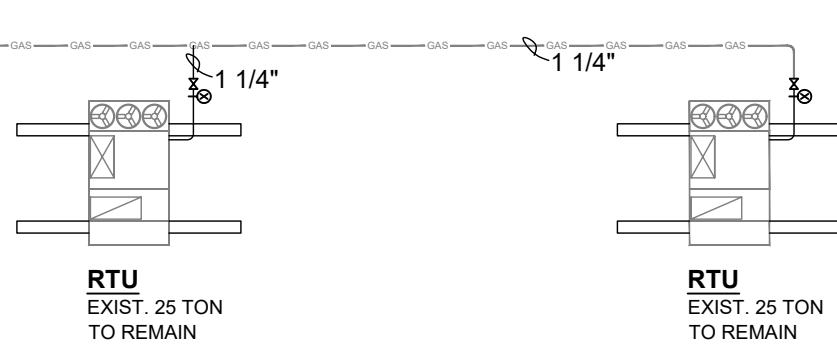
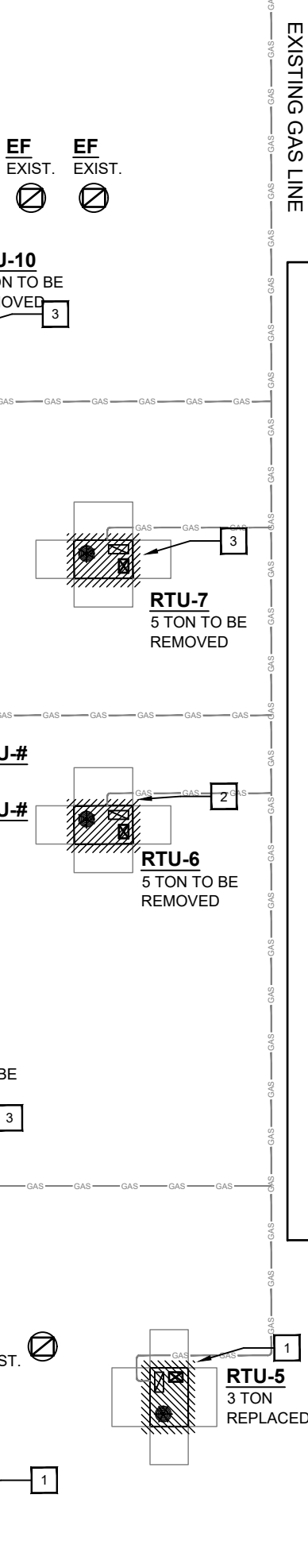
1 QUADRANT '4' - ENLARGED FLOOR PLAN  
SCALE: 1/8"=1'-0"



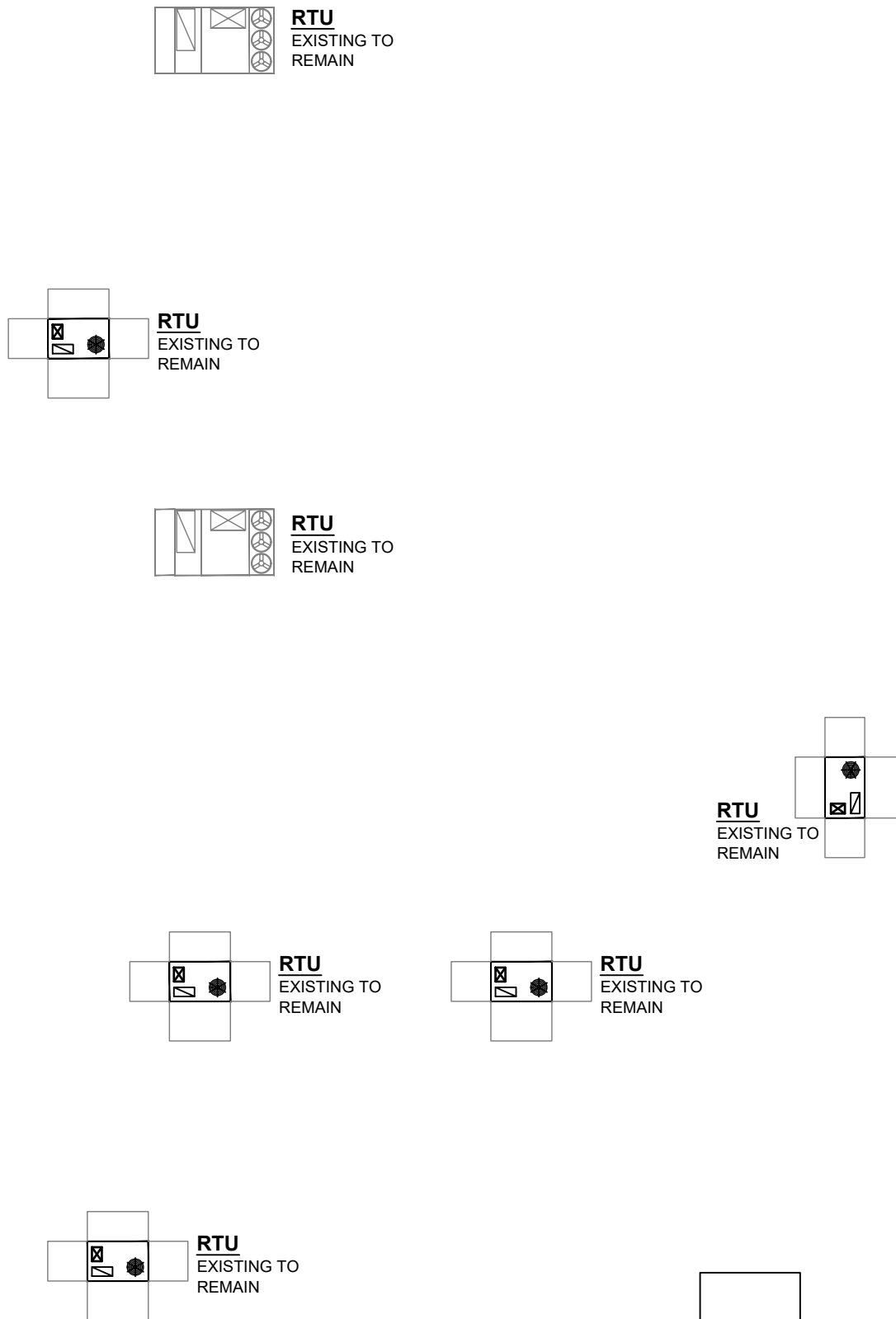




EXISTING GAS LINE  
DOWN EXT. WALL

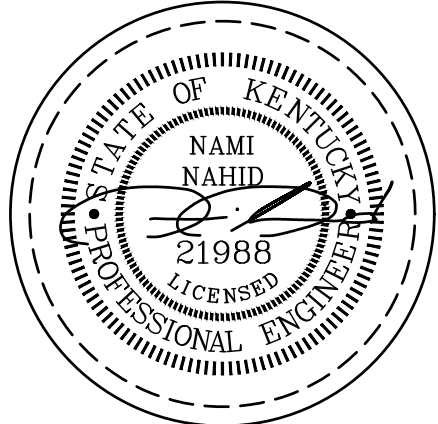


GYM AREA ROOF



DEMO NOTES:

1. DISCONNECT EXISTING CIRCUITRY, DISCONNECTS, FROM UNITS, FOR REMOVAL OF UNITS. COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY FURTHER REQUIREMENTS.  
  
1.1) FIELD VERIFY CONDITION OF EXISTING CIRCUITRY THAT CAN BE USED FOR NEW EQUIPMENT TO BE INSTALLED IN THE SAME PLACE AS THE EQUIPMENT REMOVED.
2. DISCONNECT EXISTING CIRCUITRY, DISCONNECTS, FROM UNITS, FOR REMOVAL OF UNITS. COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY FURTHER REQUIREMENTS.  
  
2.1) TERMINATE EXISTING CIRCUIT IN JUNCTION BOX LOCATED ABOVE CEILING IN AREA BELOW EXISTING RTU UNIT. FIELD VERIFY CONDITION OF CIRCUIT SO THAT IT CAN BE REUSED TO FEED CU-1
3. DISCONNECT AND REMOVE EXISTING CIRCUITRY, DISCONNECTS FROM UNITS FOR REMOVAL OF UNITS. COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY FURTHER REQUIREMENTS.  
  
3.1) REMOVE EXISTING CIRCUITRY THAT WILL NOT BE REUSED ALL THE WAY INCLUDING THE CIRCUIT BREAKER. FREED UP BREAKER SPACE IS TO BE USED TO FEED NEW UNITS.



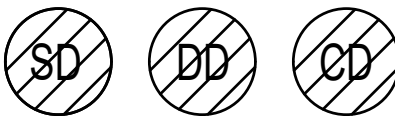
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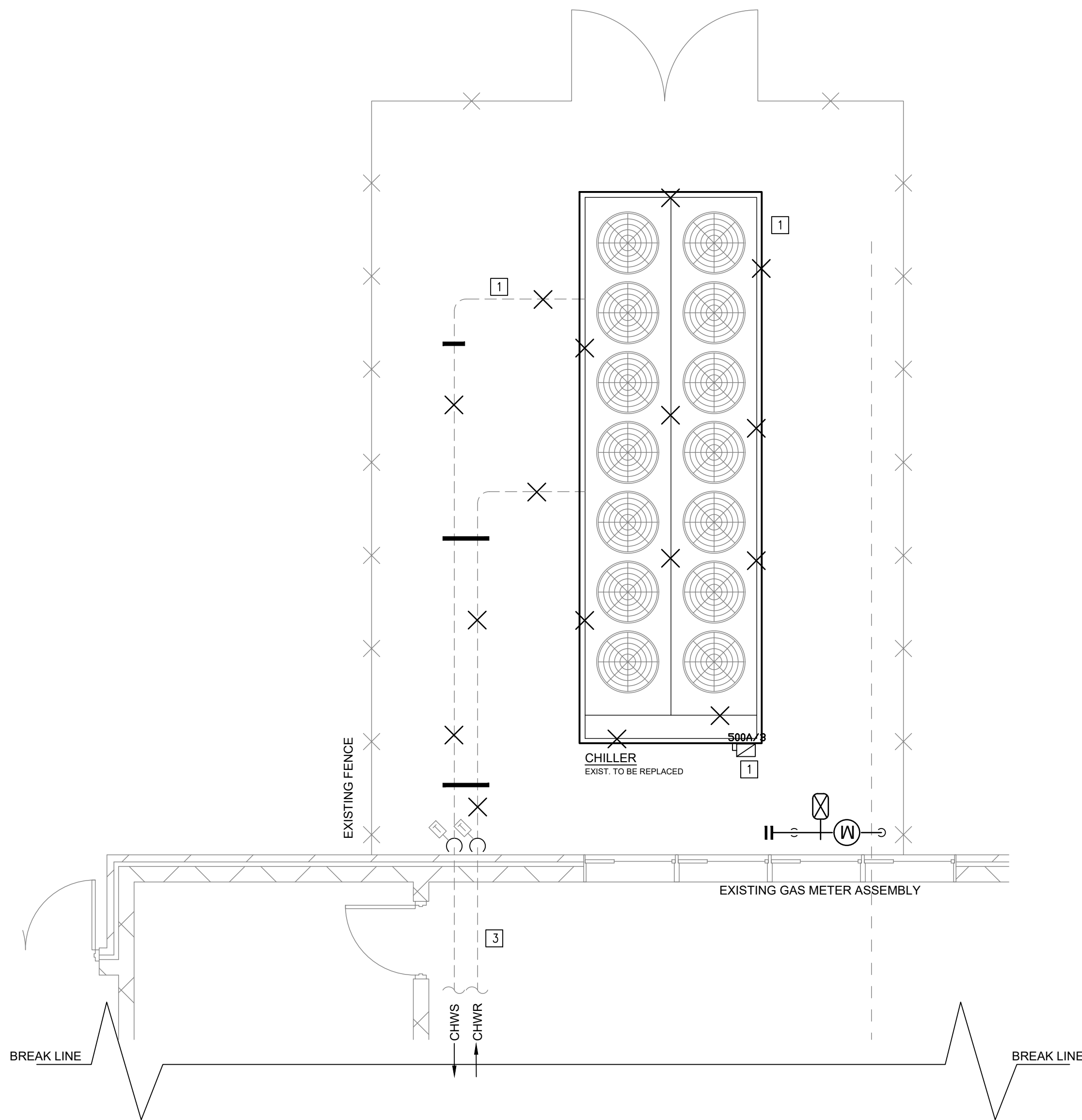
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ELECTRICAL  
ROOF DEMO PLAN

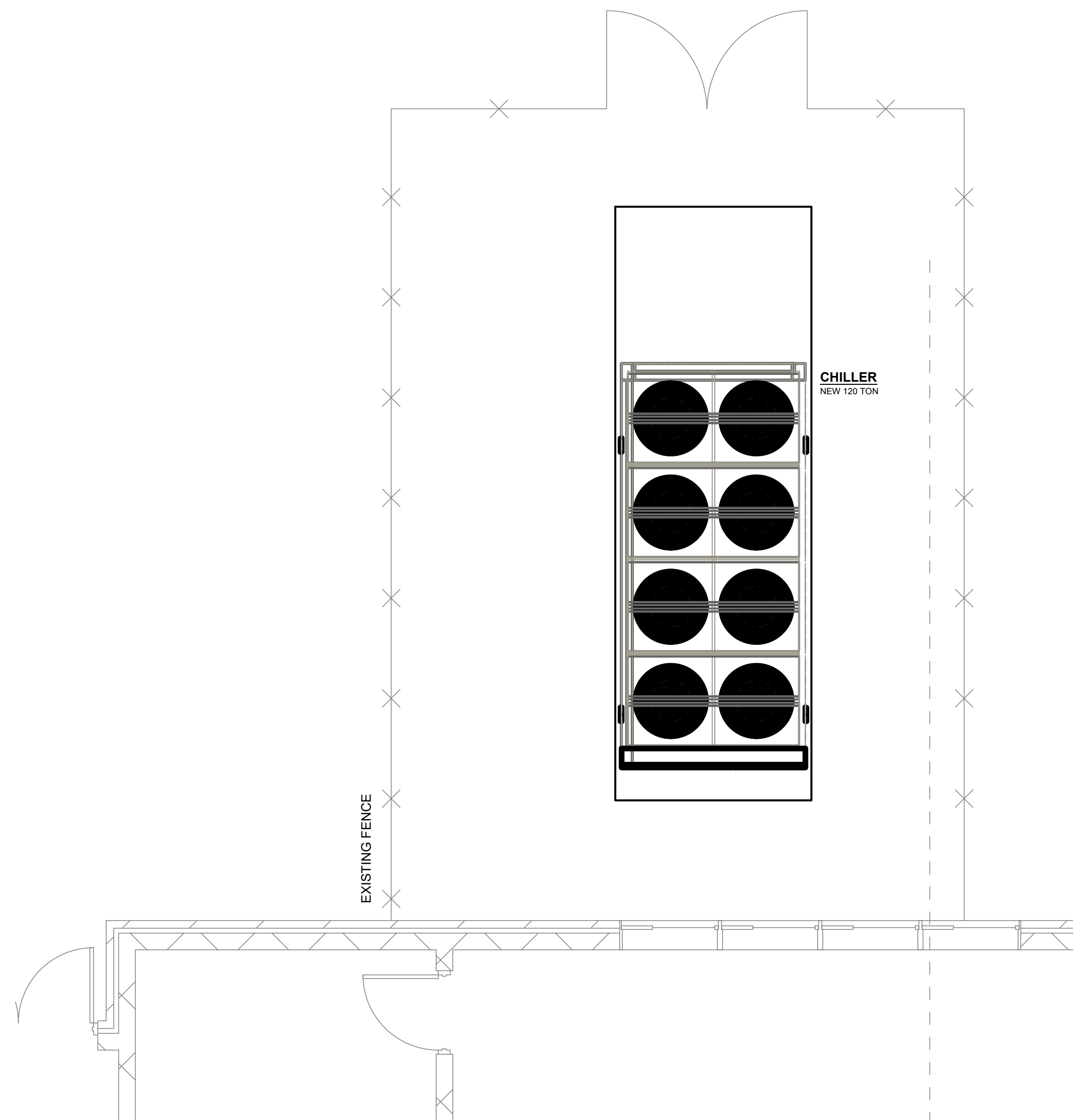
E1.05

ELECTRICAL

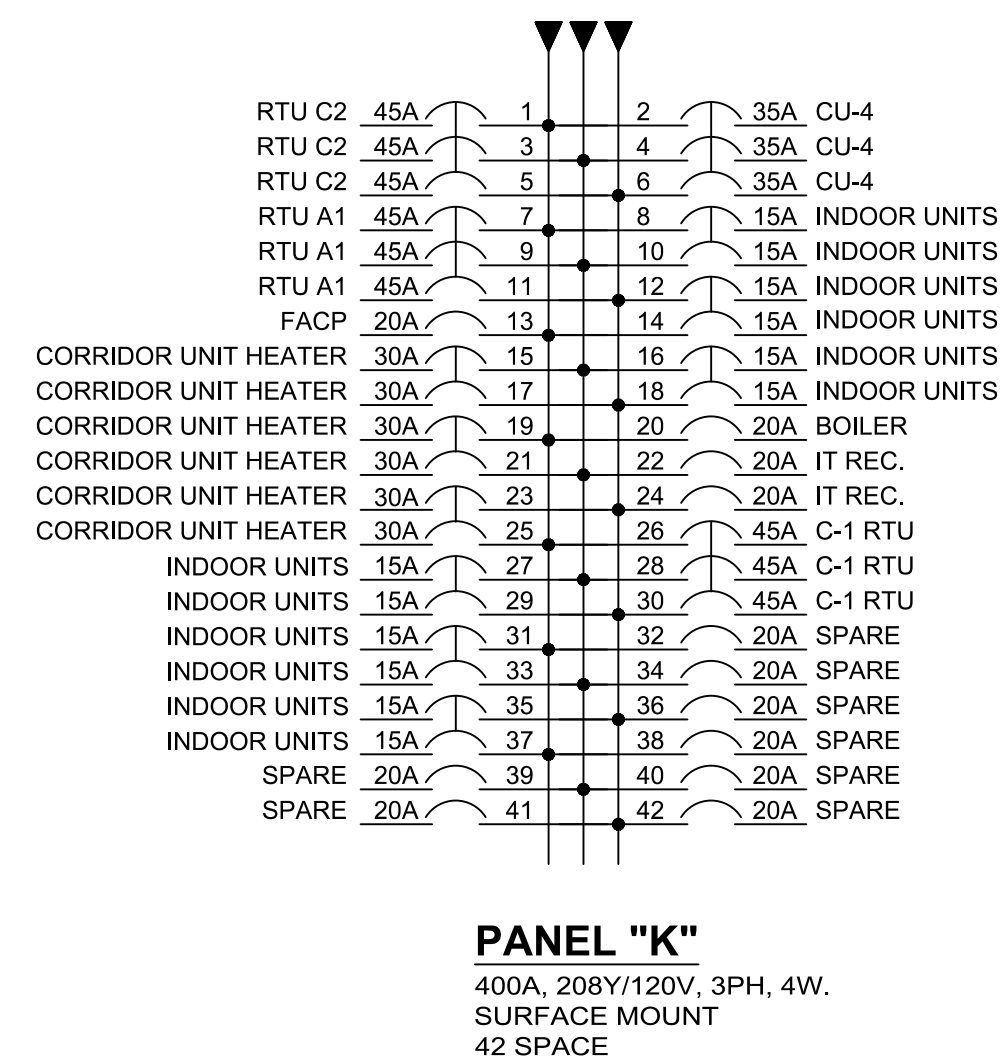




**1 ENLARGED MECH ROOM - ELECTRICAL DEMO**  
SCALE: 1/4"=1'-0"



**2 ENLARGED MECH ROOM - ELECTRICAL NEW WORK**  
SCALE: 1/4"=1'-0"

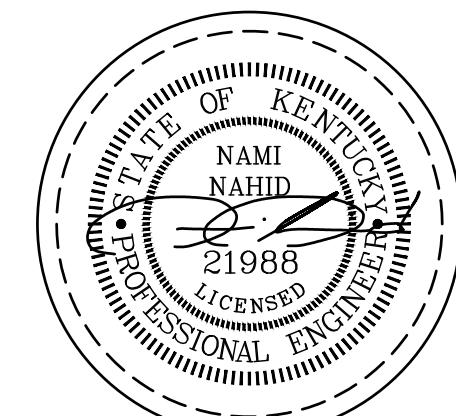


## ELECTRICAL DEMO NOTES:

- REMOVE EXISTING CHILLER DISCONNECT. EXISTING CIRCUITRY TO BE REUSED FOR NEW CHILLER TO BE INSTALLED IN THE SAME LOCATION.
- REMOVE EXISTING MOTOR STARTER FOR CHILLER WATER PUMP FOR REMOVAL OF WATER PUMP. CIRCUITRY TO REMAIN IN PLACE FOR NEW VFD FOR NEW CHILLER WATER PUMP. COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY FURTHER REQUIREMENTS.
- REMOVE EXISTING MOTOR STARTER FOR HOT WATER PUMP FOR REMOVAL OF WATER PUMP. CIRCUITRY TO REMAIN IN PLACE FOR NEW VFD FOR NEW HOT WATER PUMP. COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY FURTHER REQUIREMENTS.
- DISCONNECT EXISTING BOILER. CIRCUITRY TO REMAIN IN PLACE FOR NEW BOILER INSTALLED IN THE SAME LOCATION. COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY ADDITIONAL REQUIREMENTS.
- REMOVE EXISTING 1200AMP 120/208 VOLT THREE PHASE SWITCH GEAR IN A MANNER WHICH THAT WILL LEAVE EXISTING BRANCH CIRCUITS AND FEEDERS AVAILABLE FOR REUSE.

## ELECTRICAL NOTES:

- NEW 300AMP FUSIBLE DISCONNECT MOUNTED IN SAME LOCATION AS OLD DISCONNECT. REFER TO PAGE E### DEMO NOTE 1. CHANGE EXISTING CIRCUIT BREAKER FEEDING CIRCUIT TOO 3 POLE 300 AMP BREAKER. FIELD VERIFY AIC RATING AND TYPE OF BREAKER.
- INSTALL VFD FOR NEW CHILLER WATER PUMP. (VFD PROVIDED BY MECHANICAL CONTRACTOR). WIRE PUMP AND VFD'S TO MANUFACTURES SPECIFICATIONS UTILIZING CIRCUITRY LEFT FROM NOTE 2 ON PAGE E110.
- INSTALL (2) VFD'S FOR NEW HOT WATER PUMPS. (VFD'S PROVIDED BY MECHANICAL CONTRACTOR). WIRE PUMPS AND VFD'S TO MANUFACTURES SPECIFICATIONS UTILIZING CIRCUITRY LEFT FROM NOTE 3 ON PAGE E110.
- REUSE EXIST CIRCUIT LEFT FROM NOTE 4 ON PAGE E110 TO WIRE (1) NEW BOILER. COORDINATE WITH MECHANICAL CONTRACTOR TO ENSURE BOTH BOILERS UTILIZE EXISTING EMERGENCY SHUTOFF.
- INSTALL NEW 1200AMP 120/208VOLT SWITCH GEAR WITH MAIN BREAKER. INCLUDE SPD DEVICE (3) 200AMP 3-POLE BREAKERS, (8) 225 AMP 3-POLE BREAKERS, (2) 400 AMP 3-POLE BREAKERS, (2) 200 AMP 2-POLE BREAKERS, AND (1) 100 AMP 3-POLE BREAKER. PROVISIONS SHOULD BE MADE FOR FUTURE EXPANSION OF (4) 225 AMP 3-POLE BREAKERS.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONCRETE PAD ADJUSTMENTS NEEDED FOR NEW SWITCH GEAR.
- TERMINATE EXISTING FEEDERS AND BRANCH CIRCUITS FROM NOTE 5 ON PAGE E110 IN NEW SWITCH GEAR AND ASSOCIATED CIRCUIT BREAKERS. CONTRACTOR TO VERIFY WORKING CONDITION AND LABELING OF SWITCH GEAR AND EACH BRANCH CIRCUIT AFTER INSTALLATION.
- FEED PANEL K FROM SWITCH GEAR INSTALLED IN THE MECHANICAL ROOM UTILING A 400 AMP 3-POLE BREAKER LISTED ABOVE IN NOTE 5. USE 2.5" EMT CONDUIT WITH (4) 4/O'S AND (1) #4 AWG GROUND.



DESIGN PROFESSIONAL



PLAN REVIEWER

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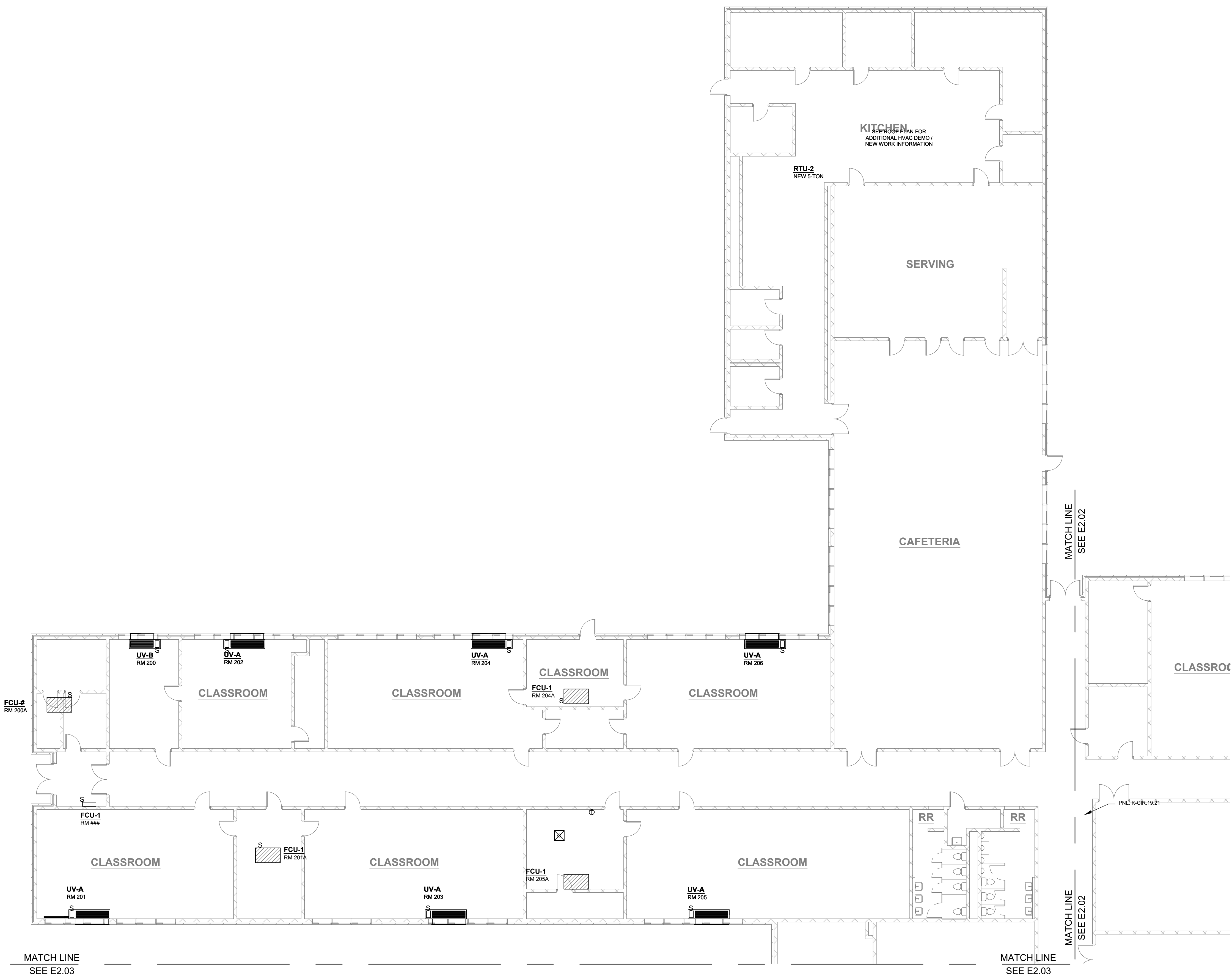
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**ELECTRICAL  
MECHANICAL RM  
DEMO AND NEW WORK**

**E1.06**

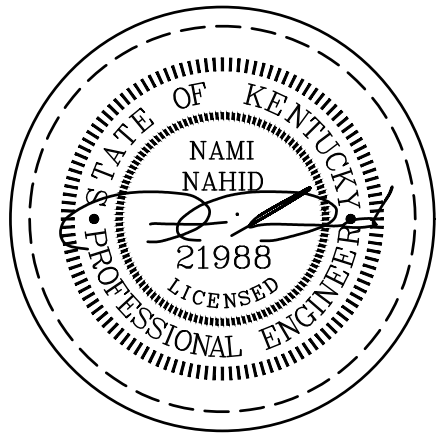
ELECTRICAL





1 QUADRANT '1' - ENLARGED POWER PLAN  
SCALE: 3/32"=1'-0"

- # POWER NOTES:
1. USE EXISTING CIRCUITRY TO ENERGIZE NEW EQUIPMENT. REFER TO PAGE E101 NOTE 1.TYPICAL
  - 1a) FIELD VERIFY CONDITION OF EXISTING CIRCUITRY THAT CANBE USED FOR NEW EQUIPMENT TO BE INSTALLED IN THE SAME PLACE AS THE EQUIPMENT REMOVED. TYPICAL
  2. DISCONNECT ABOVE CEILING FOR CORRIDOR UNIT HEATER. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION.



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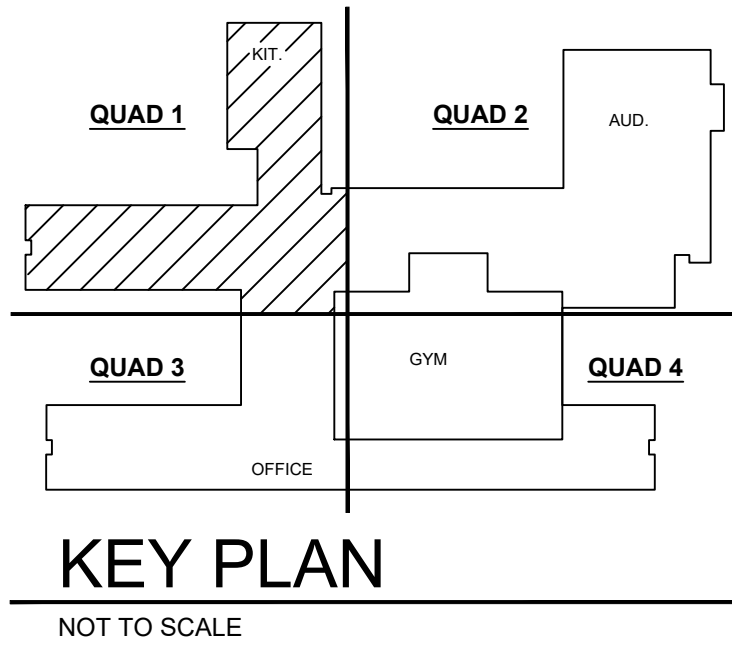
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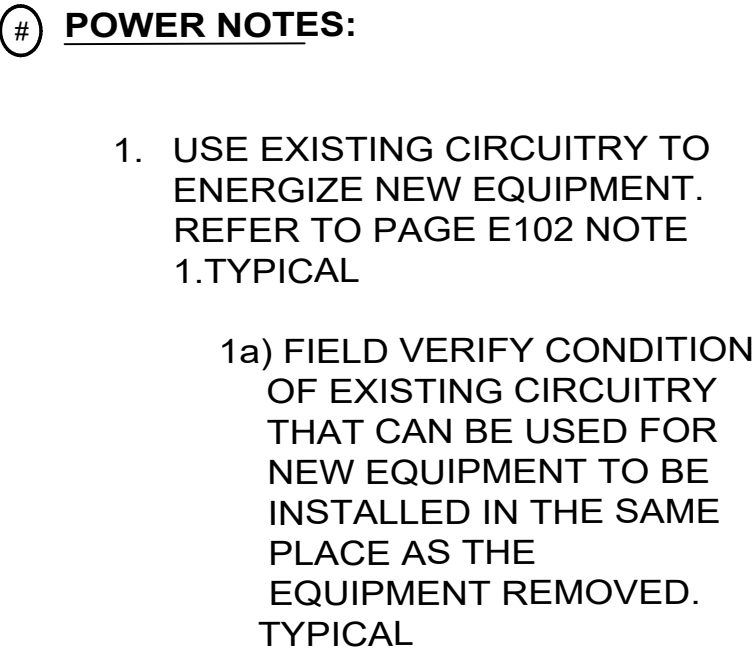
QUADRANT 1  
POWER PLAN

E2.01

ELECTRICAL







SCALE: 3/32"=1'-0"



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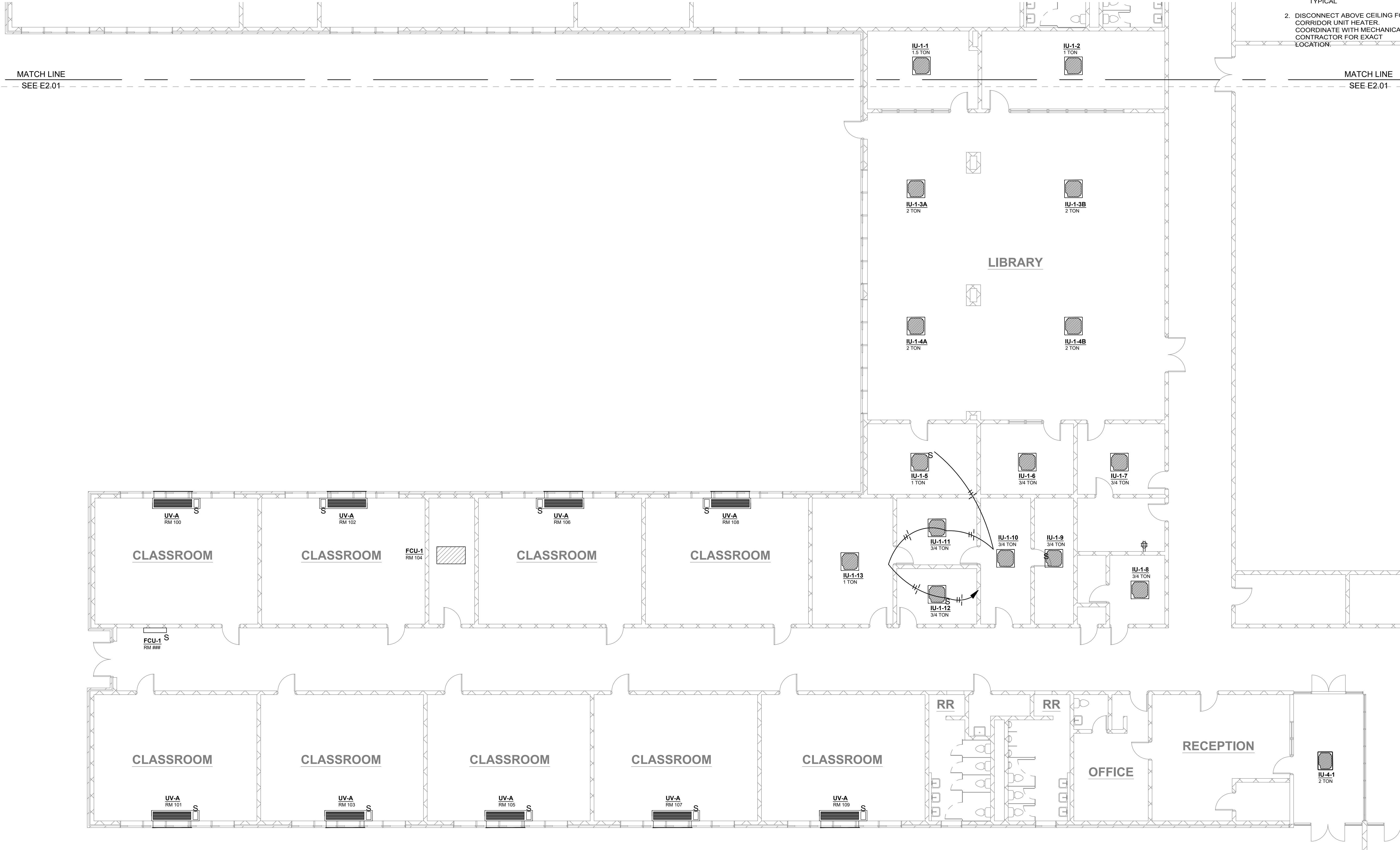
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## QUADRANT 2 POWER PLAN

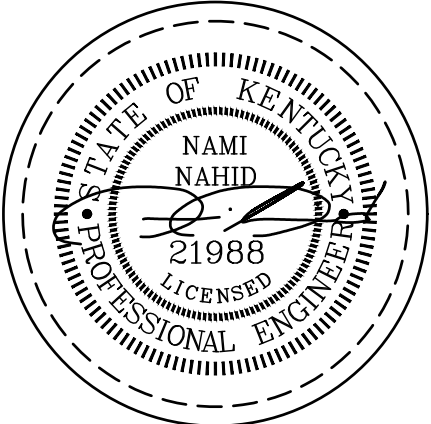
# E2.02

ELECTRICAL





- # POWER NOTES:
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  - 1a) FIELD VERIFY CONDITION OF EXISTING CIRCUITRY THAT CANBE USED FOR NEW EQUIPMENT TO BE INSTALLED IN THE SAME PLACE AS THE EQUIPMENT REMOVED. TYPICAL
  2. DISCONNECT ABOVE CEILING FOR CORRIDOR UNIT HEATER. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION.



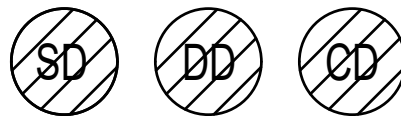
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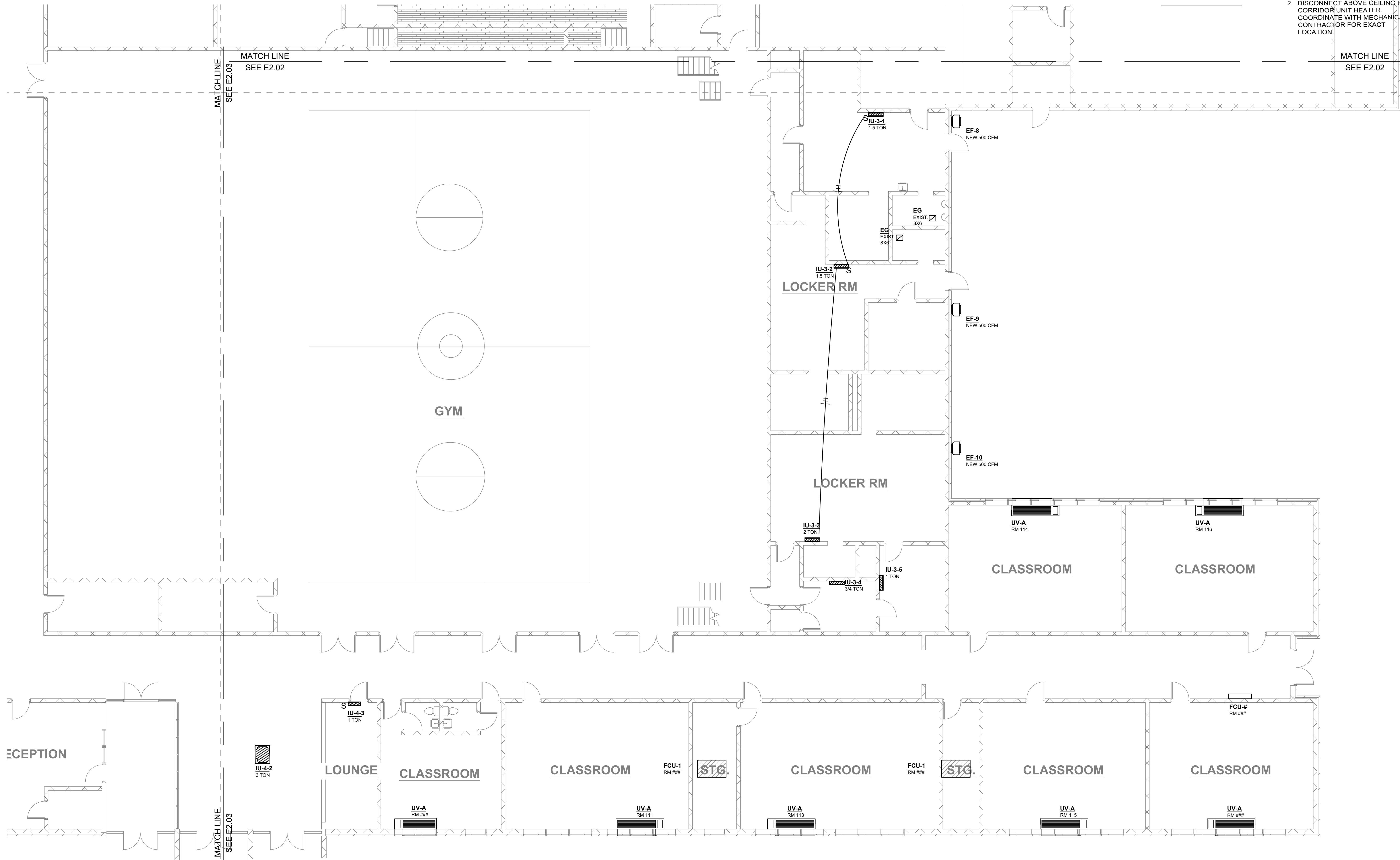
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QUADRANT 3  
POWER PLAN

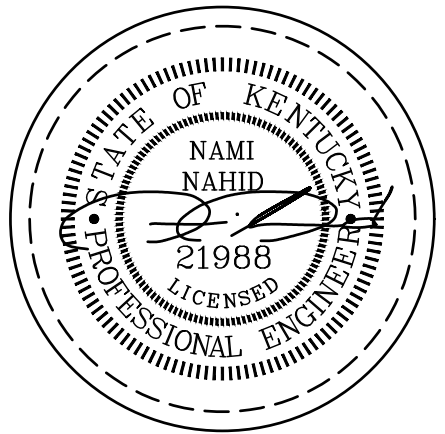
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ELECTRICAL





- # POWER NOTES:
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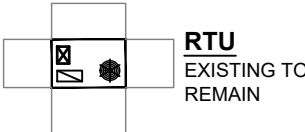
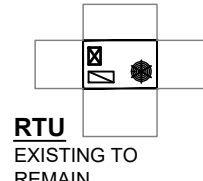
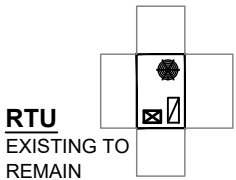
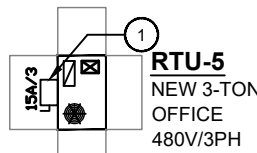
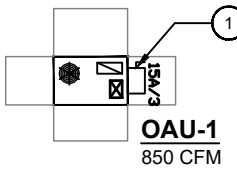
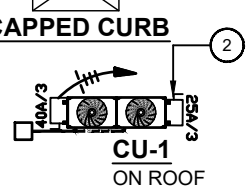
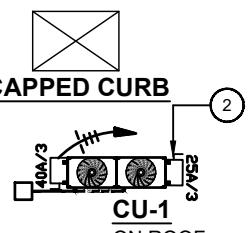
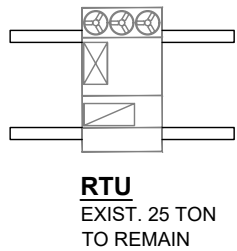
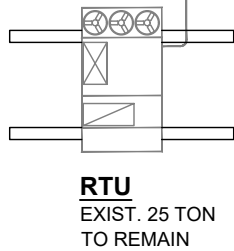
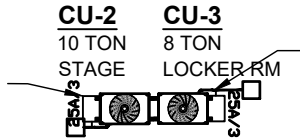
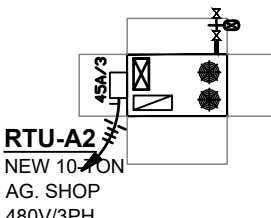
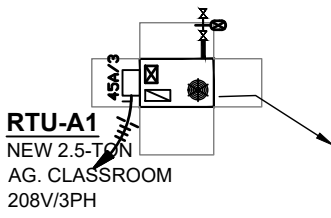
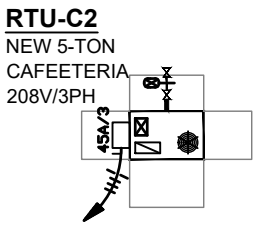
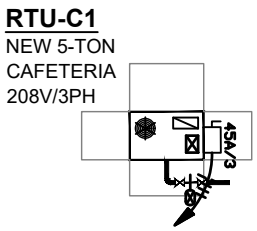
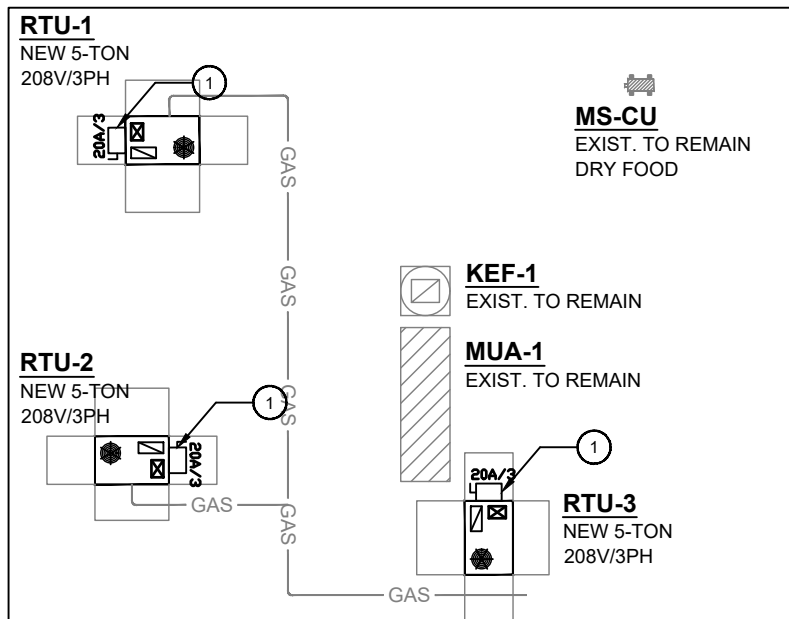
QUADRANT 4  
POWER PLAN

E2.04

ELECTRICAL

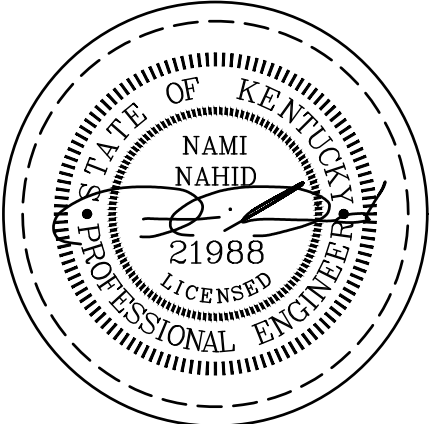
1 QUADRANT '4' - ENLARGED POWER PLAN  
SCALE: 1/8"=1'-0"





POWER NOTES:

1. REUSE EXISTING CIRCUITRY TO ENERGIZE NEW EQUIPMENT. PROVIDE AND INSTALL NEW DISCONNECTS AND CIRCUIT BREAKERS FOR EXISTING CIRCUITRY. COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY FURTHER REQUIREMENTS.  
  
1.1) PROVIDE AND INSTALL NEMA 3R FUSIBLE DISCONNECTS WITH FUSES TO MATCH MOP LISTED ON ASSOCIATED EQUIPMENT NAMEPLATES.
2. EXTEND EXISTING CIRCUIT FROM ABOVE THE CEILING (SEE PAGE E1.05 NOTE 2) THROUGH PIPE PORTAL TO CU-1. PROVIDE AND INSTALL NEW DISCONNECT AND CIRCUIT BREAKER FOR EXISTING CIRCUITRY. COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY FURTHER REQUIREMENTS.  
  
2.1) PROVIDE AND INSTALL NEMA 3R FUSIBLE DISCONNECTS WITH FUSES TO MATCH MOP LISTED ON ASSOCIATED EQUIPMENT NAMEPLATES.
3. ALL ROOF TOP UNITS SHALL HAVE VOLTAGES AND SOURCES OF CLEARLY LABELED, BOTH IN THE PANEL AND ON THE UNIT AFTER INSTALLATION. TYPICAL
4. USE SPACE IN PANELS CREATED BY NOTE 3 ON PAGE E1.05 TO FEED NEW ROOFTOP UNITS AS NOTED.



DESIGN PROFESSIONAL



PLAN REVIEWER

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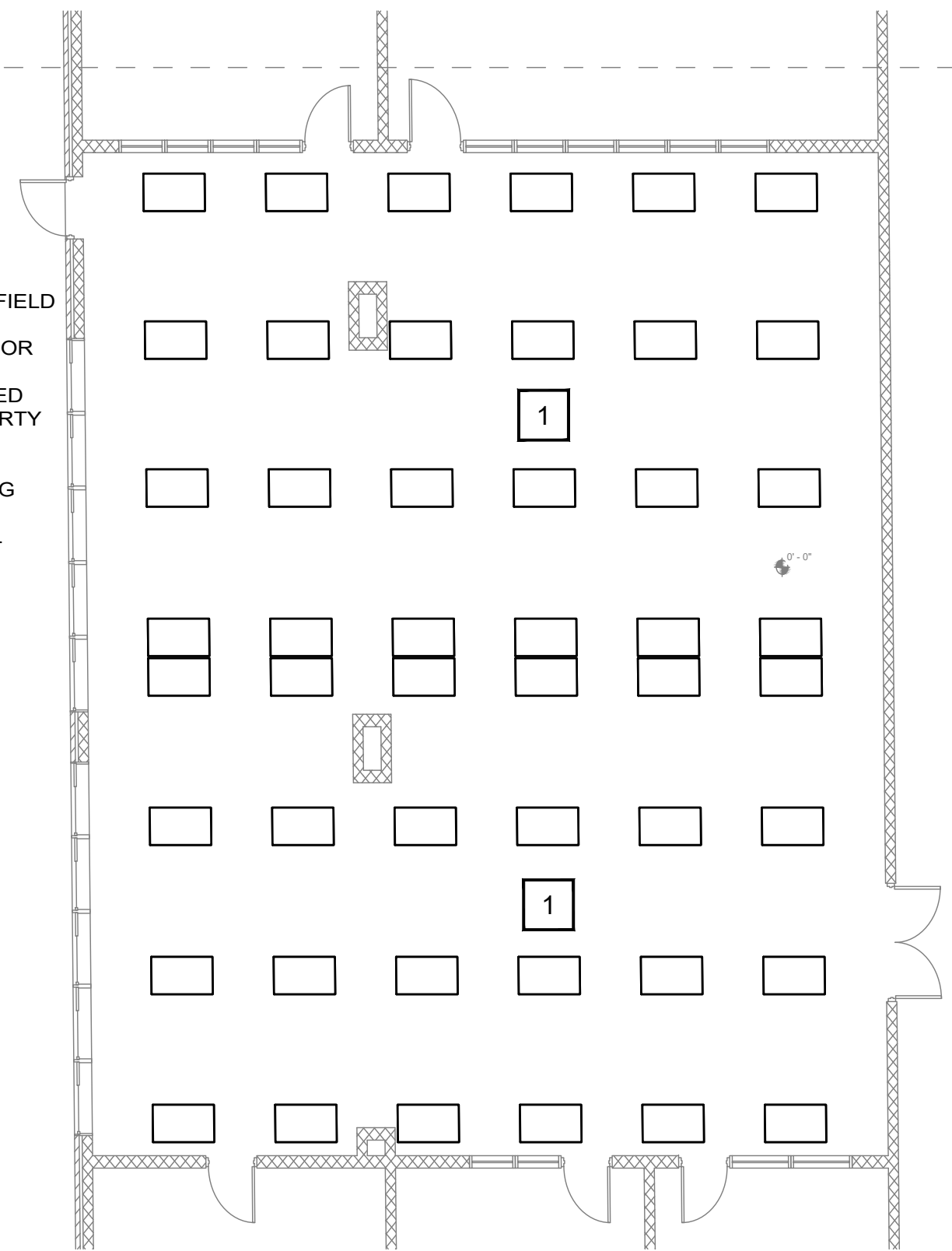
ELECTRICAL  
ROOF POWER  
PLAN

E2.05

ELECTRICAL

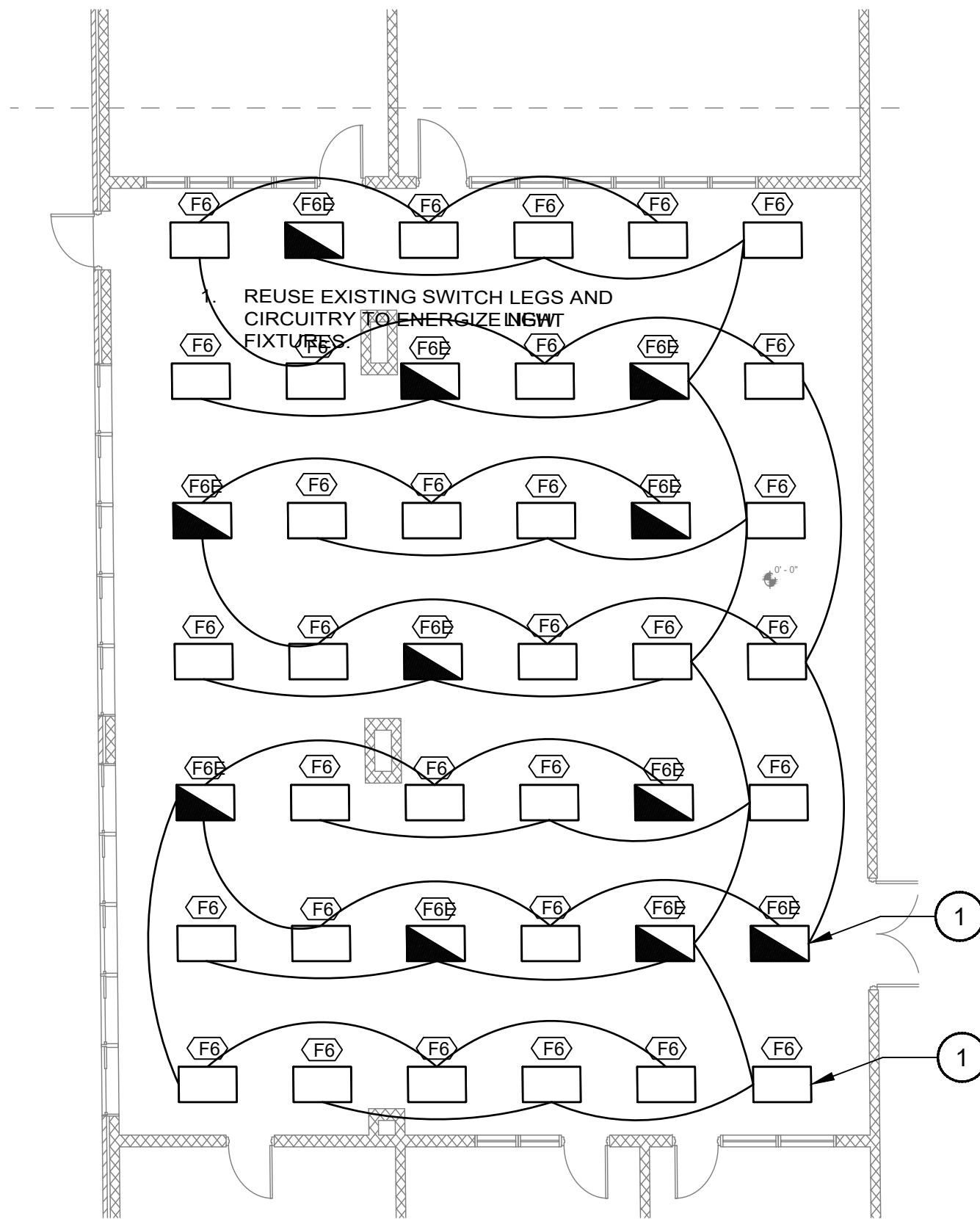


- # **LIBRARY DEMO NOTES:**
1. DISCONNECT AND SALVAGE EXISTING LIBRARY LIGHT FIXTURES FOR OWNER. FIELD VERIFY QUANTITY OF LIGHTS TO BE REMOVED. COORDINATE WITH OWNER FOR STORAGE AND DELIVERY LOCATION OF REMOVED LIGHT FIXTURES. ALL REMOVED LIGHT FIXTURES SHALL BECOME PROPERTY OF OWNER. TYPICAL
  - 1.1. FIELD VERIFY CONDITION OF EXISTING CIRCUITRY AND FOR NEW LIGHT FIXTURES TO BE INSTALLED. TYPICAL

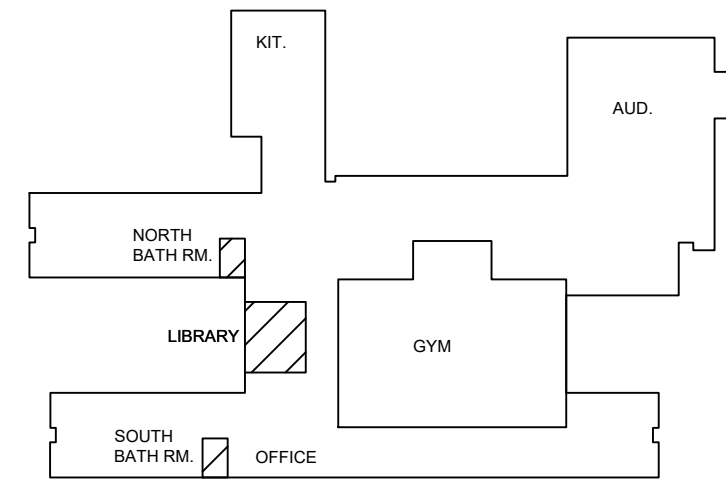


1 **LIBRARY LIGHTING DEMO**  
SCALE: 1/8"=1'-0"

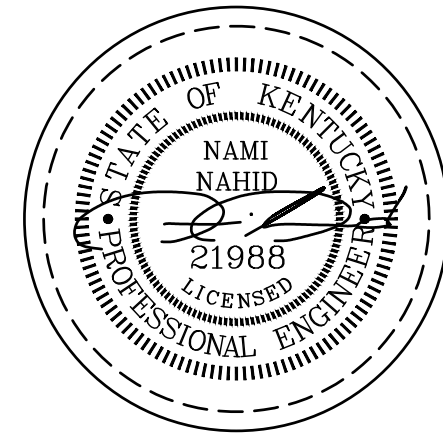
- # **NEW LIBRARY LIGHTS NOTES:**
1. REUSE EXISTING SWITCH LEG AND CIRCUITRY TO ENERGIZE NEW LIGHT FIXTURES.



2 **LIBRARY NEW LIGHTING**  
SCALE: 1/8"=1'-0"



**KEY PLAN**  
NOT TO SCALE



DESIGN PROFESSIONAL



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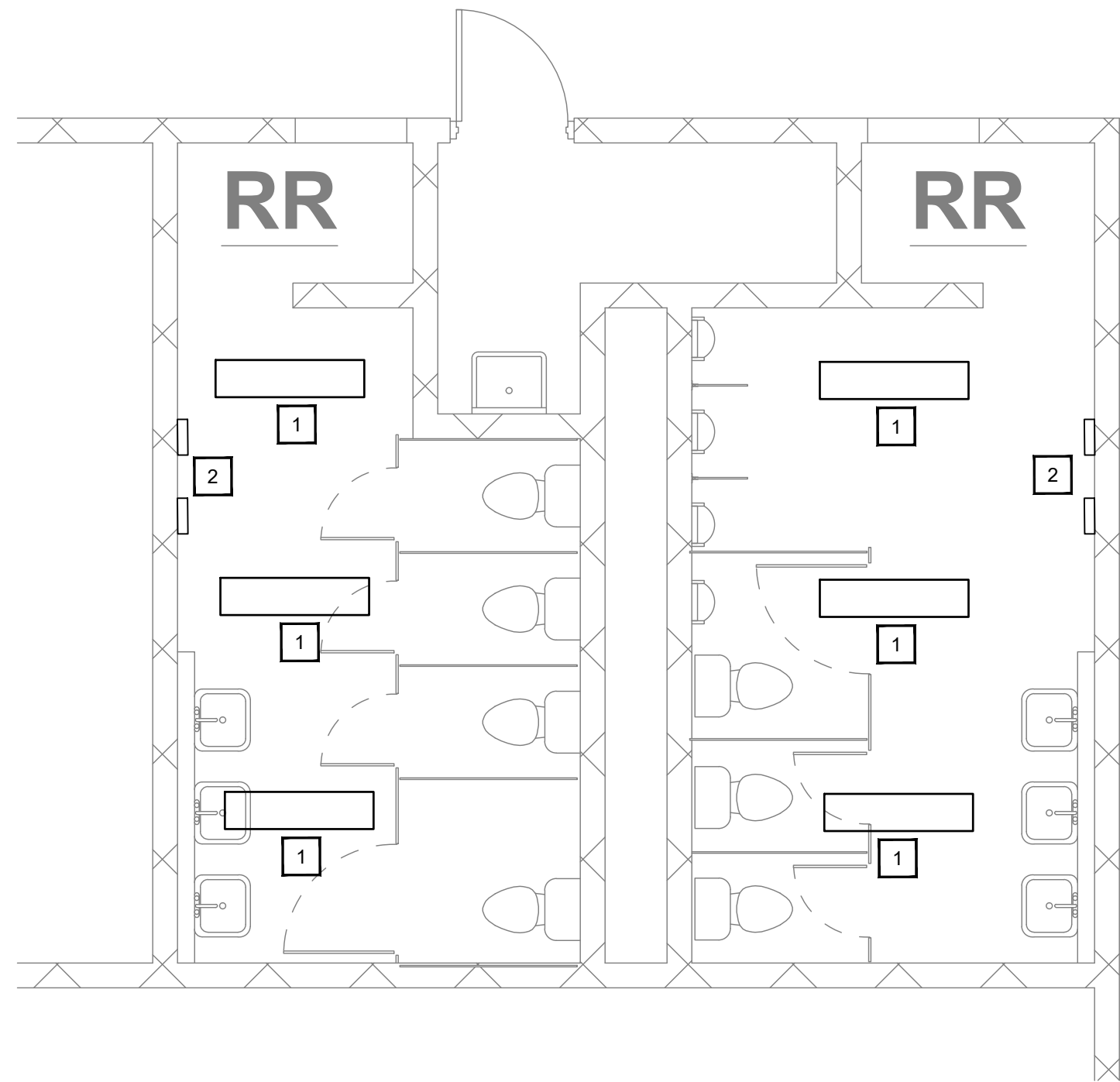
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**ELECTRICAL -  
LIBRARY LIGHTING**

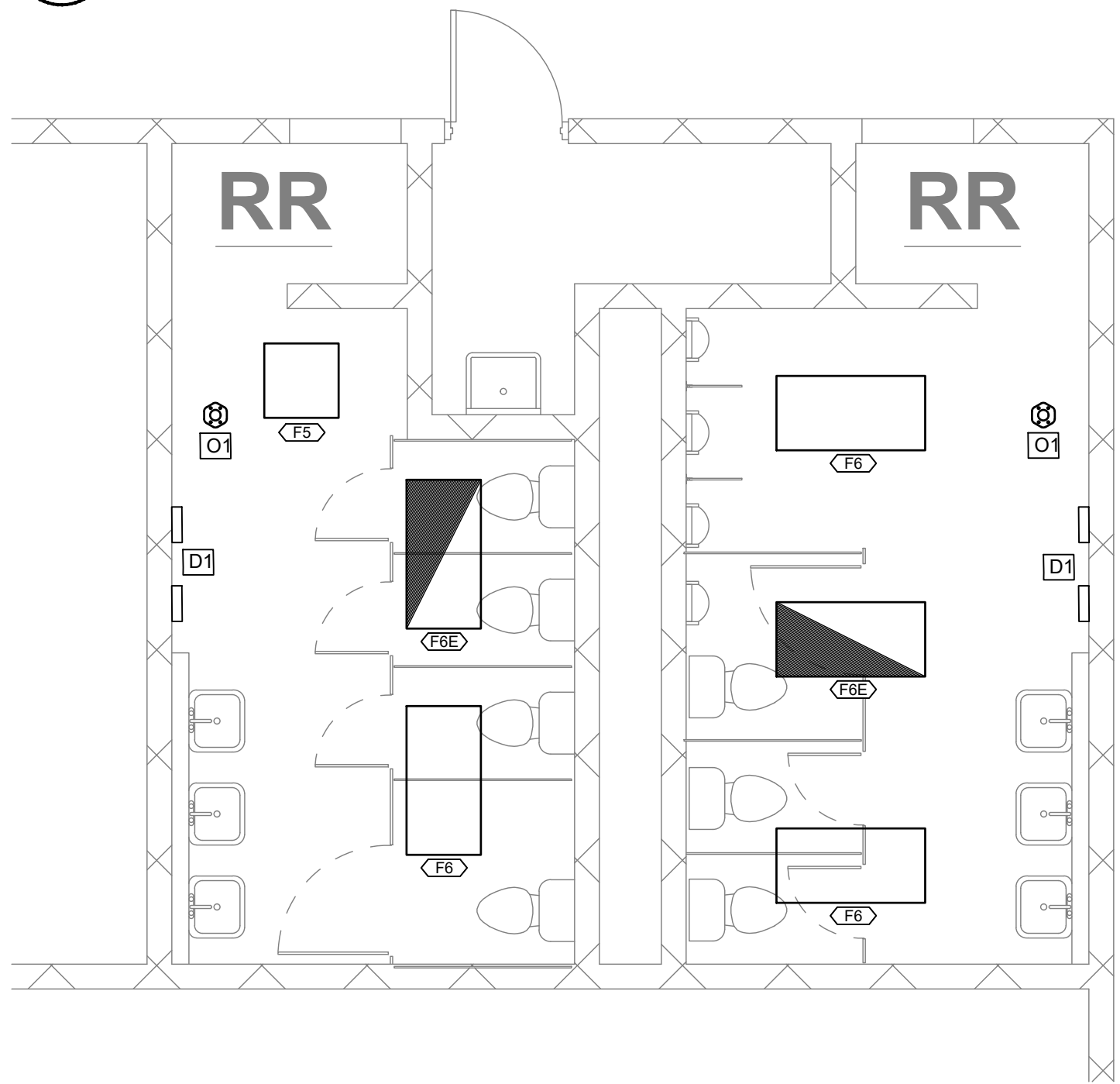
**E3.01**

**ELECTRICAL**

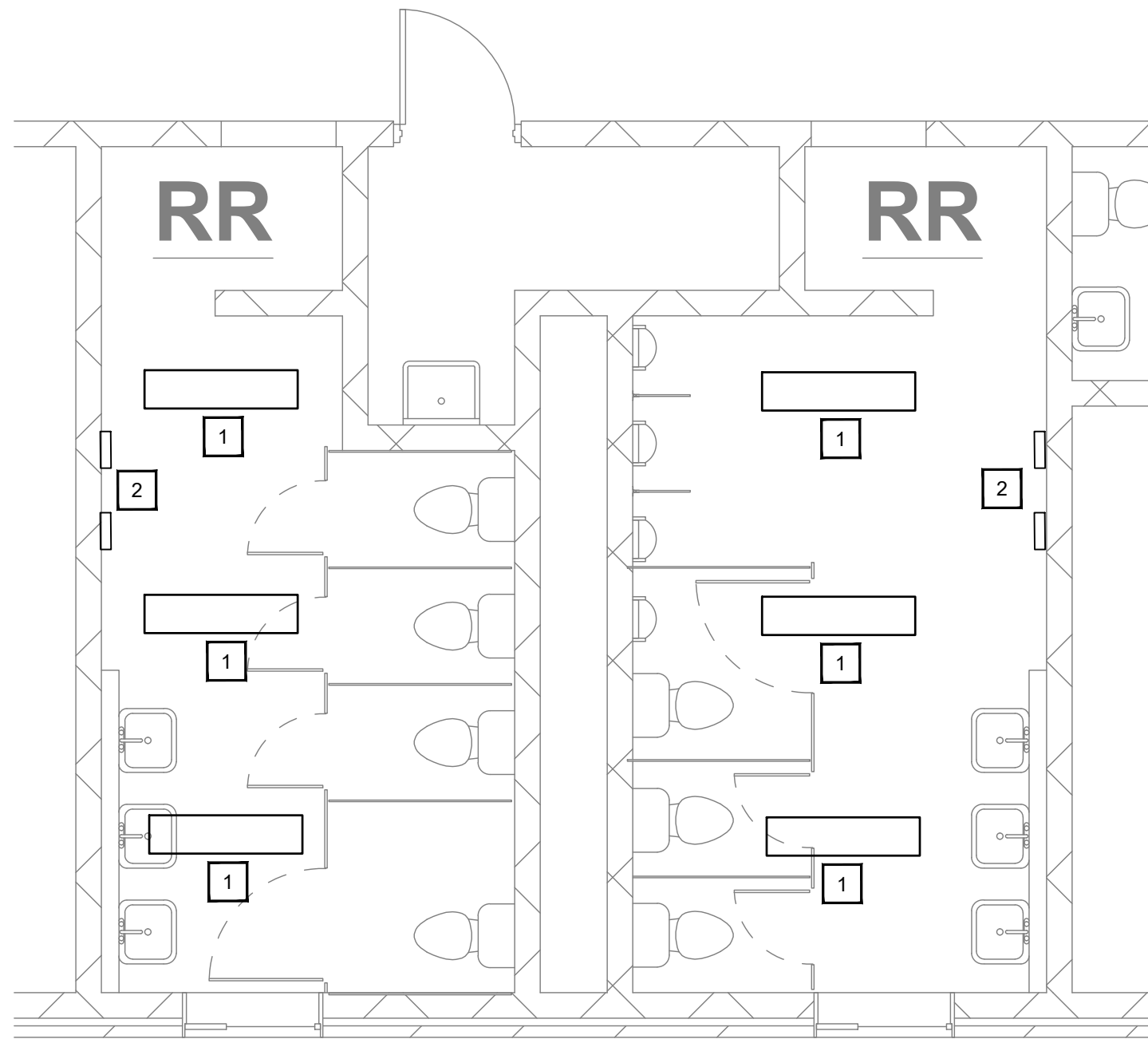




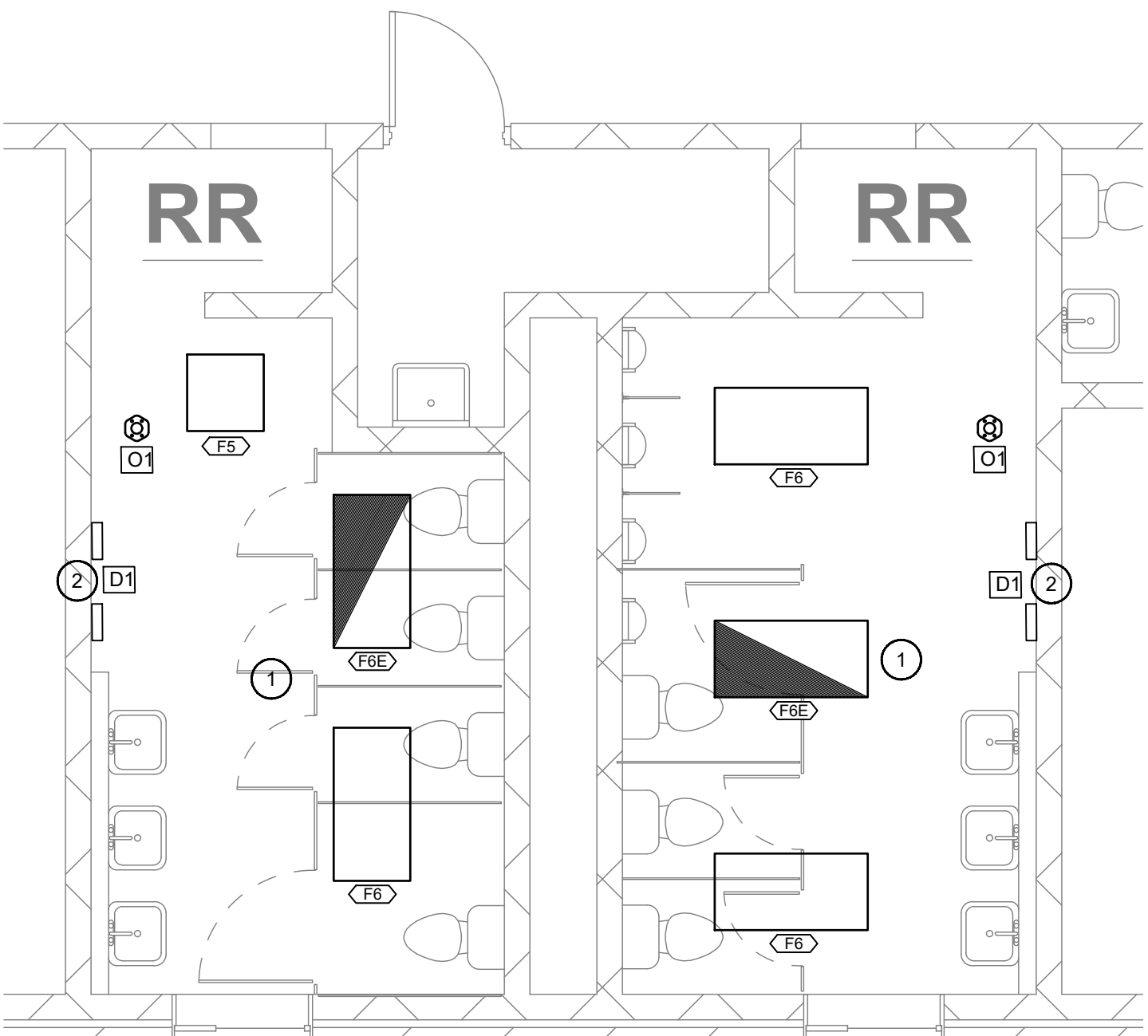
1 NORTH BATHROOM-ELECTRICAL DEMO  
SCALE: 1/4"=1'-0"



3 NORTH BATHROOM-NEW ELECTRICAL  
SCALE: 1/4"=1'-0"



2 SOUTH BATHROOM-ELECTRICAL DEMO  
SCALE: 1/4"=1'-0"



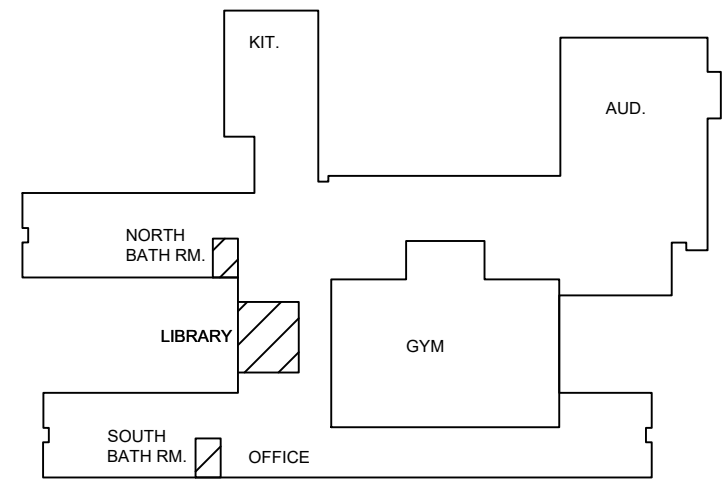
4 SOUTH BATHROOM-NEW ELECTRICAL  
SCALE: 1/4"=1'-0"

# BATHROOM DEMO NOTES:

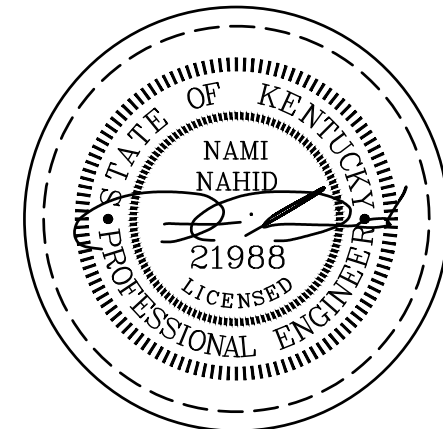
- 1) REMOVE AND DISPOSE OF LIGHT FIXTURES, AND PREPARE CIRCUITRY FOR NEW BATHROOM DROP CEILING.
- 2) REMOVE HAND DRYERS AND DISPOSE OF HAND DRYERS. PREPARE EXISTING CIRCUITRY FOR NEW HAND DRYERS GOING IN SAME LOCATION.

# NEW BATHROOM NOTES:

- 1) UTILIZE EXISTING BATHROOM LIGHTING CIRCUIT FOR NEW BATHROOM LIGHTING LAY-OUT. BATHROOM LIGHTS TO BE CONTROLLED BY CEILING MOUNTED OCCUPANCY SENSOR. TYPICAL
- 2) NEW HAND DRYERS TO BE MOUNTED IN SAME LOCATION AS THE OLD HAND DRYERS, UTILIZING EXISTING CIRCUITRY. TYPICAL



KEY PLAN  
NOT TO SCALE



DESIGN PROFESSIONAL

**SKY ENGINEERING**  
MECHANICAL - ELECTRICAL - PLUMBING  
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1000 S. MAIN ST. SUITE 113  
BOWLING GREEN, KY 42304  
270-899-0182

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ELECTRICAL -  
BATHROOM LIGHTING

E3.02

ELECTRICAL



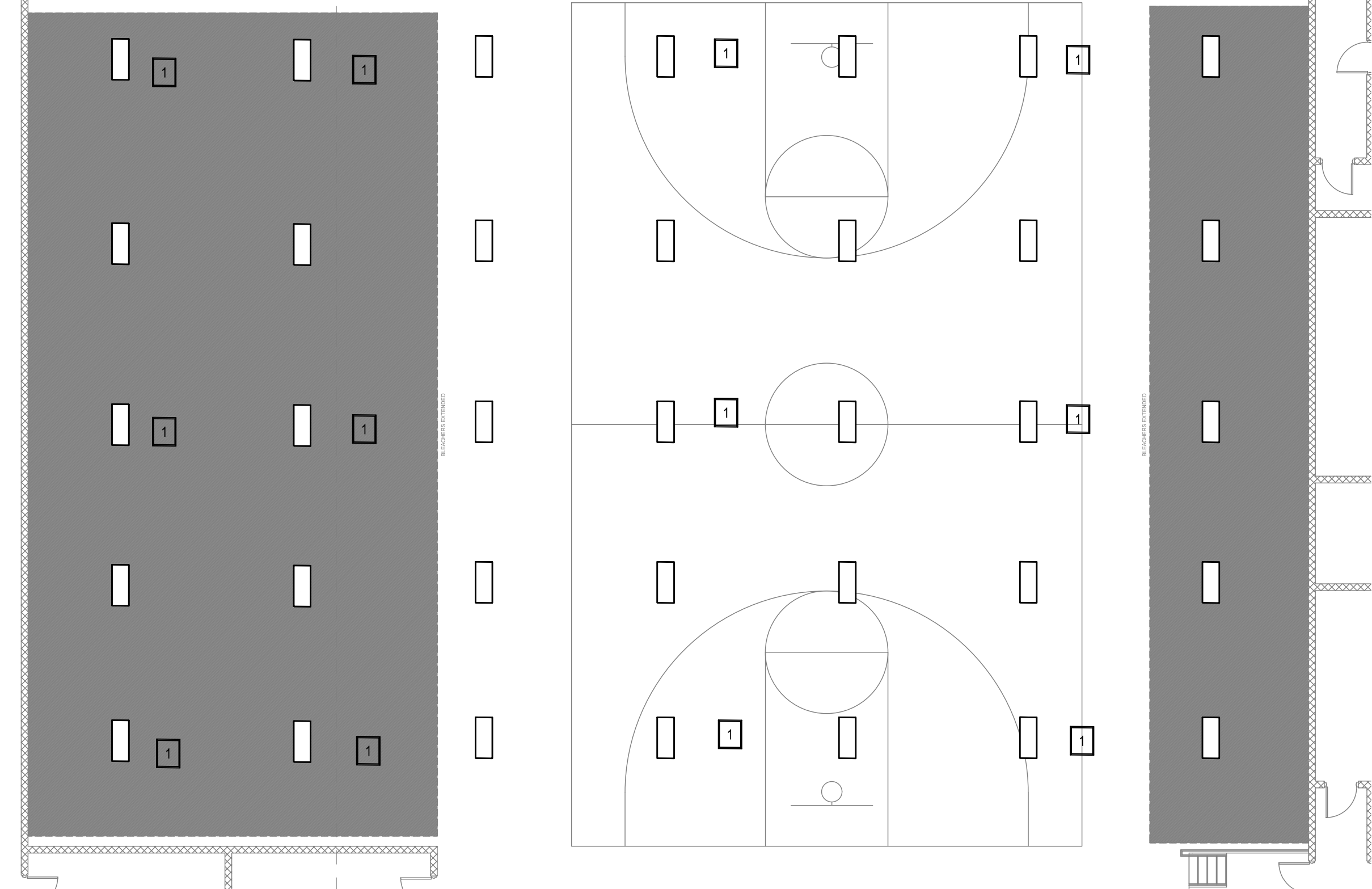
# DEMO NOTES:

1. DISCONNECT AND SALVAGE EXISTING HIGH BAY GYMNASIUM LIGHT FIXTURES FOR OWNER. FIELD VERIFY QUANTITY OF LIGHTS TO BE REMOVED. COORDINATE WITH OWNER FOR STORAGE AND DELIVERY LOCATION OF REMOVED LIGHT FIXTURES. ALL REMOVED LIGHT FIXTURES SHALL BECOME PROPERTY OF OWNER. TYPICAL

- 1.1. FIELD VERIFY CONDITION OF EXISTING CIRCUITRY AND FOR NEW LIGHT FIXTURES TO BE INSTALLED. TYPICAL

2. DISCONNECT AND SALVAGE EXISTING STAGE LIGHT FIXTURES FOR OWNER. FIELD VERIFY QUANTITY OF LIGHTS TO BE REMOVED. COORDINATE WITH OWNER FOR STORAGE AND DELIVERY LOCATION OF REMOVED LIGHT FIXTURES. ALL REMOVED LIGHT FIXTURES SHALL BECOME PROPERTY OF OWNER. TYPICAL

- 2.1. FIELD VERIFY CONDITION OF EXISTING CIRCUITRY FOR NEW LIGHT FIXTURES TO BE INSTALLED. TYPICAL



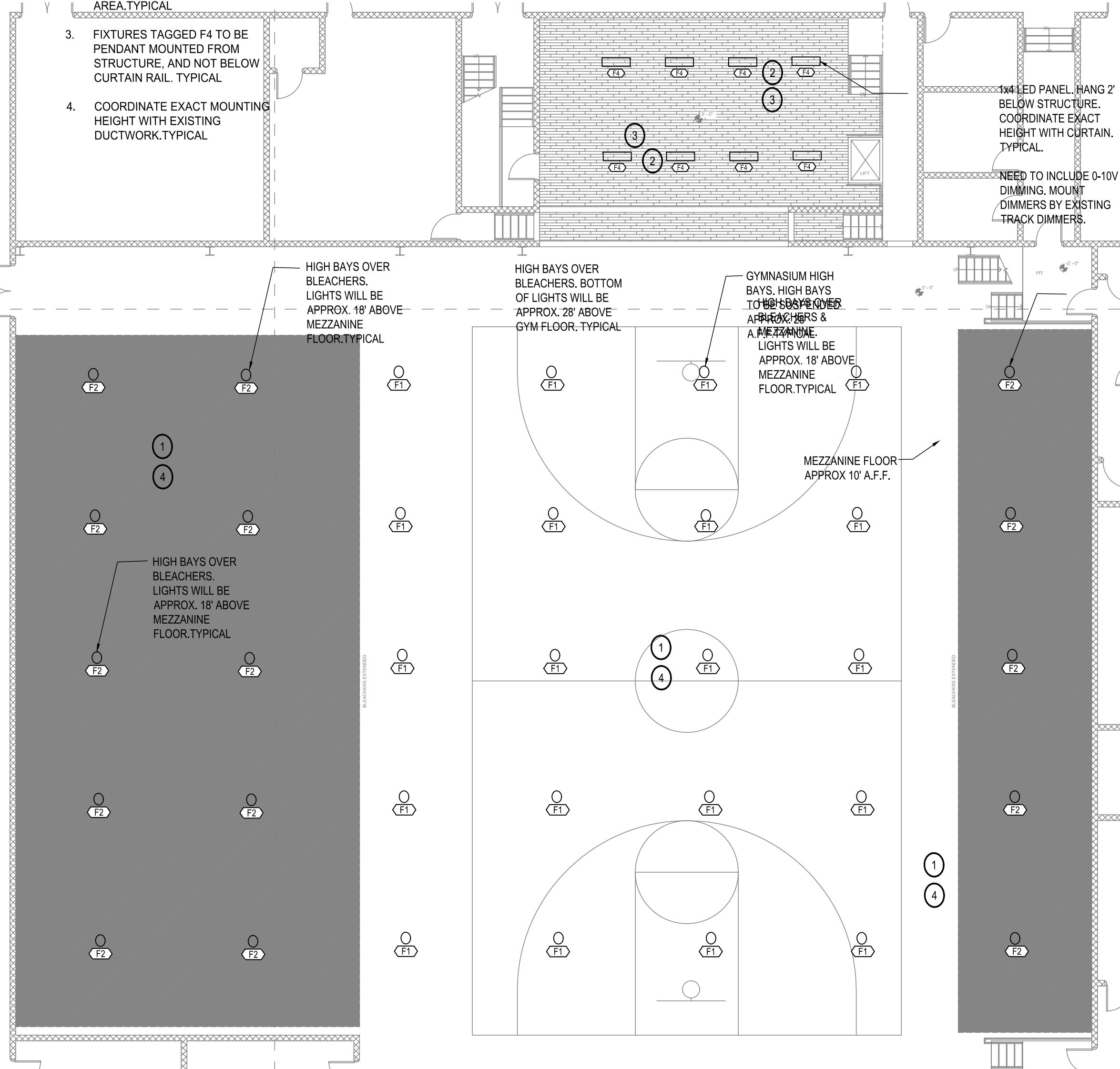
1 GYMNASIUM AND STAGE LIGHTING DEMO

SCALE: 3/32"=1'-0"

0 8' 16' 24'

# GYM AND STAGE LIGHTING NOTES:

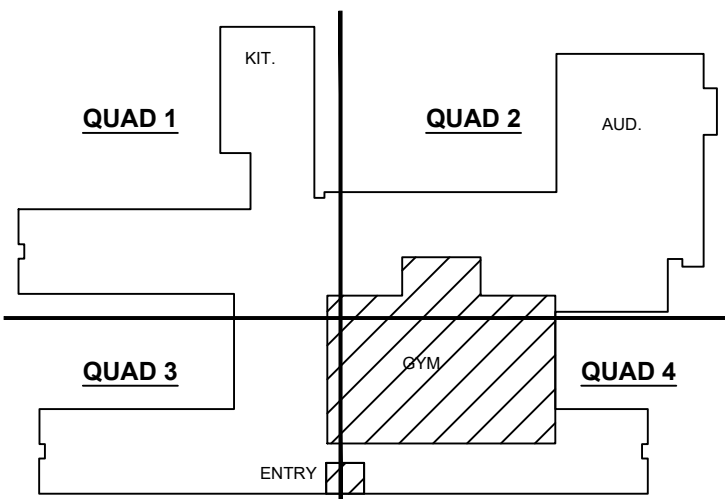
1. UTILIZE EXISTING CIRCUITRY FROM PAGE E107 NOTE 1, TO WIRE NEW HIGH BAY LIGHT FIXTURES. TYPICAL
2. UTILIZE EXISTING CIRCUITRY FROM DEMO NOTE 2, TO WIRE NEW STAGE LIGHTING FOR THE STAGE AREA. TYPICAL
3. FIXTURES TAGGED F4 TO BE PENDANT MOUNTED FROM STRUCTURE, AND NOT BELOW CURTAIN RAIL. TYPICAL
4. COORDINATE EXACT MOUNTING HEIGHT WITH EXISTING DUCTWORK. TYPICAL



2 NEW GYMNASIUM AND STAGE LIGHTING

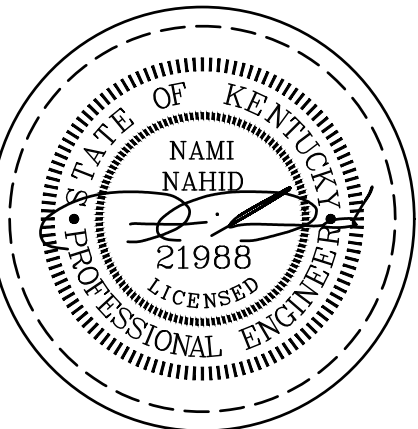
SCALE: 3/32"=1'-0"

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KEY PLAN

NOT TO SCALE



DESIGN PROFESSIONAL



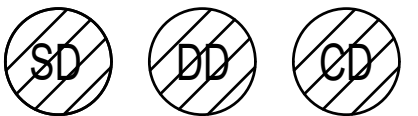
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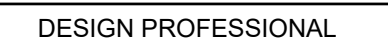
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ELECTRICAL -  
GYM AND ENTRY  
LIGHTING

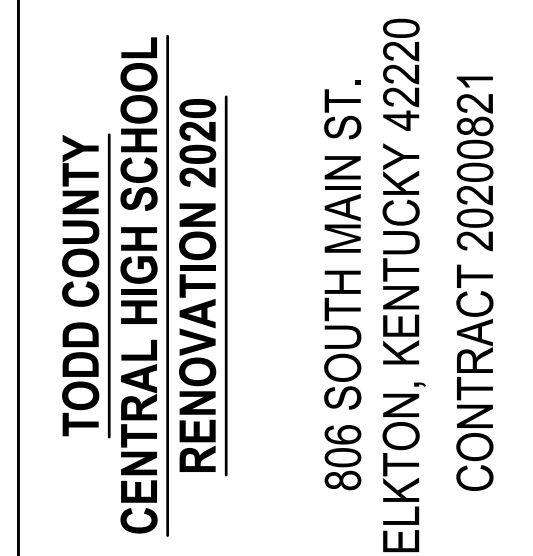
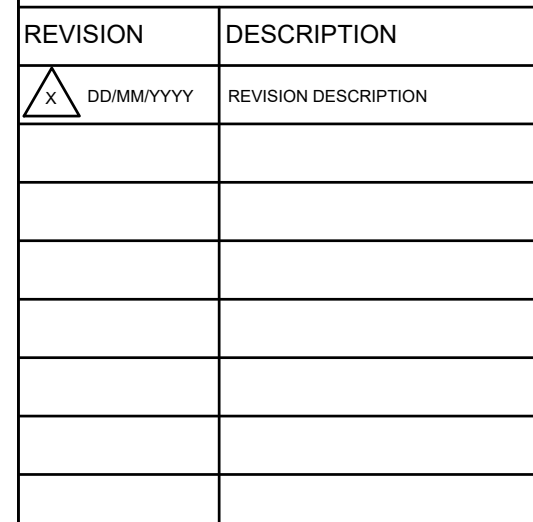
E3.03

ELECTRICAL





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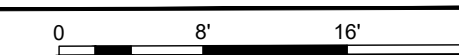
FIRE ALARM,  
COMMUNICATIONS,  
SECURITY QUADRANT 1

## E4.01

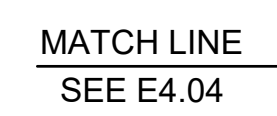
ELECTRICAL



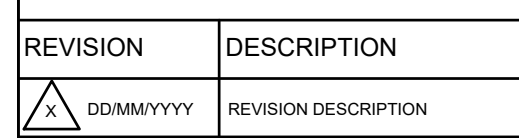
1 QUADRANT '1' - ENLARGED FLOOR PLAN - FIRE ALARM, COMMUNICATIONS, AND SECURITY  
SCALE: 3/32"=1'-0"







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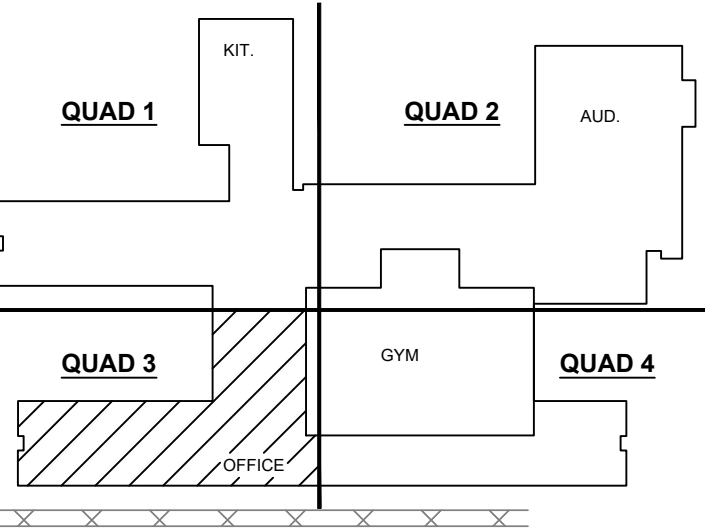
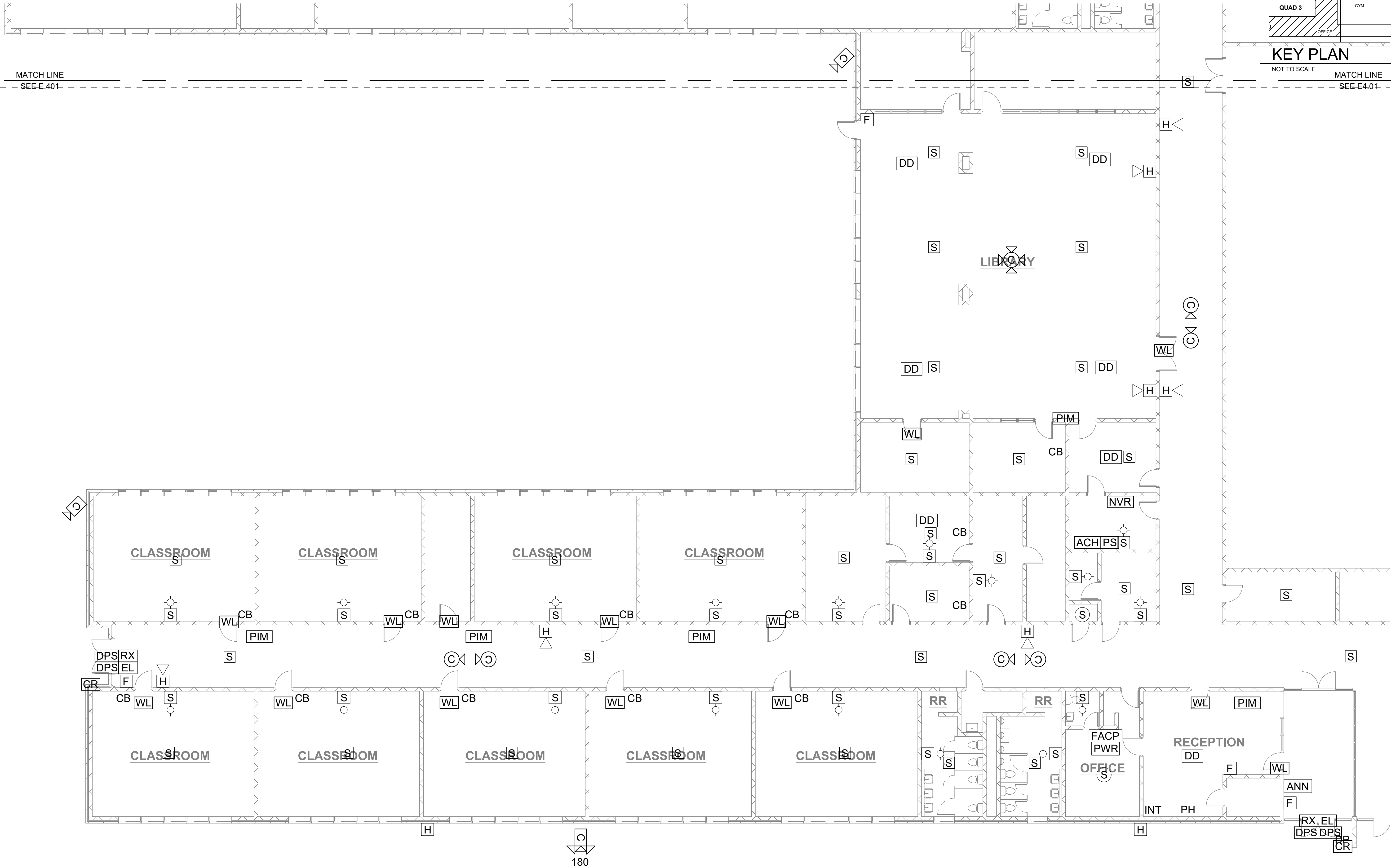
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## E4.02

ELECTRICAL

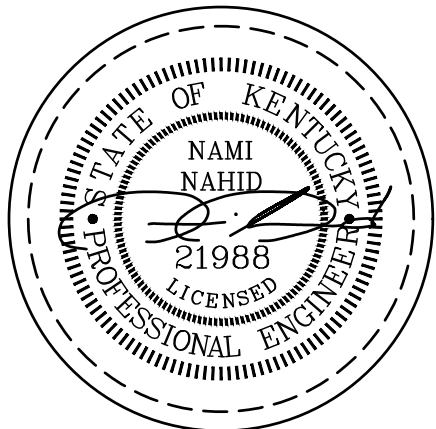






KEY PLAN

NOT TO SCALE MATCH LINE  
SEE E4.01



DESIGN PROFESSIONAL



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FIRE ALARM,  
COMMUNICATIONS,  
SECURITY QUADRANT 3

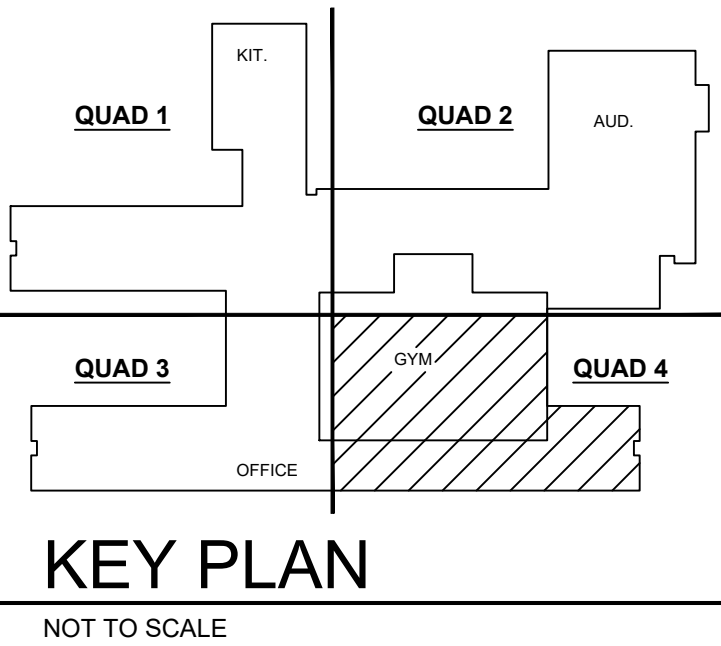
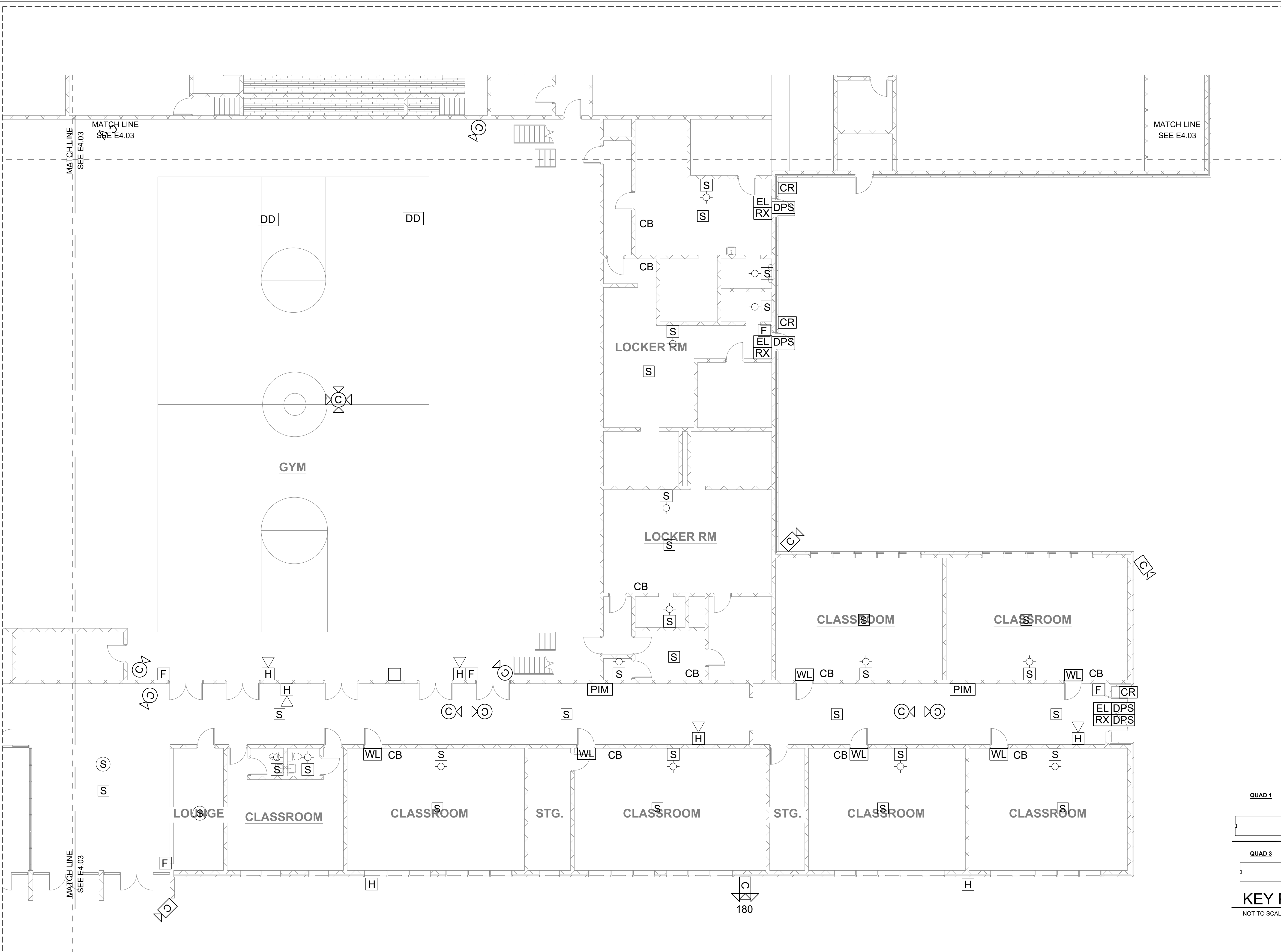
E4.03

ELECTRICAL

1 QUADRANT '3' - ENLARGED FLOOR PLAN - FIRE ALARM, COMMUNICATIONS AND SECURITY  
SCALE: 1/8"=1'-0"

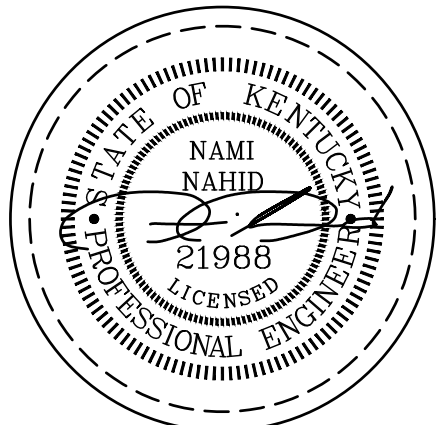






1 QUADRANT '4' - ENLARGED FLOOR PLAN - FIRE ALARM, COMMUNICATIONS AND SECURITY  
SCALE: 1/8"=1'-0"

0 4' 8' 16'



DESIGN PROFESSIONAL



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CENTRAL HIGH SCHOOL  
RENOVATION 2020  
806 SOUTH MAIN ST.  
ELKTON, KENTUCKY 42220  
CONTRACT 20200821

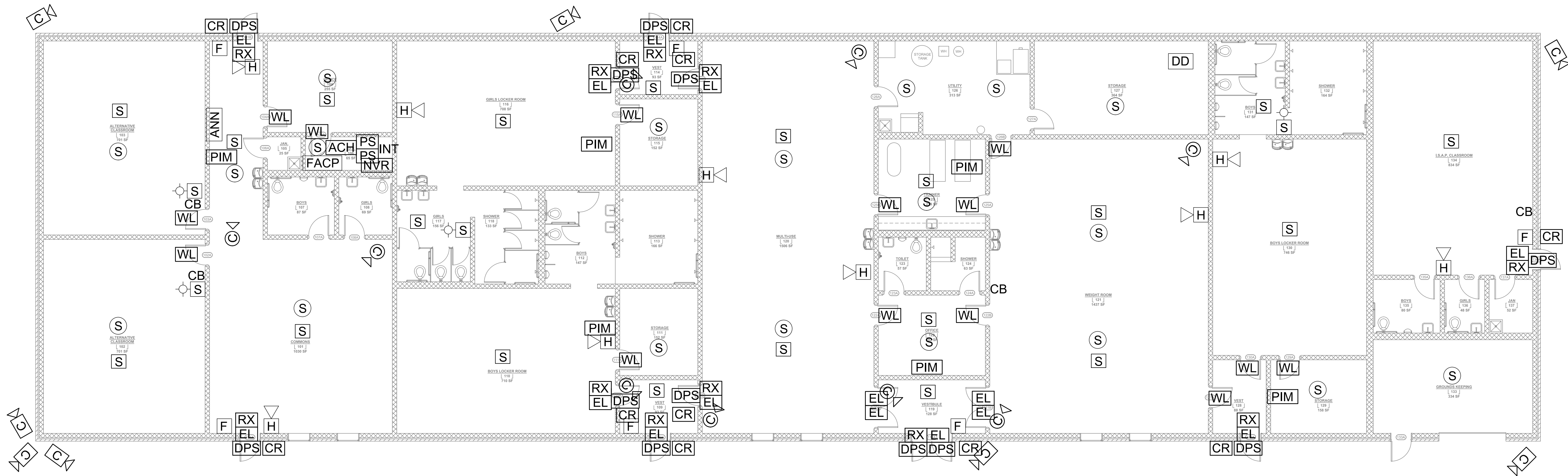
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FIRE ALARM,  
COMMUNICATIONS,  
SECURITY QUADRANT 4

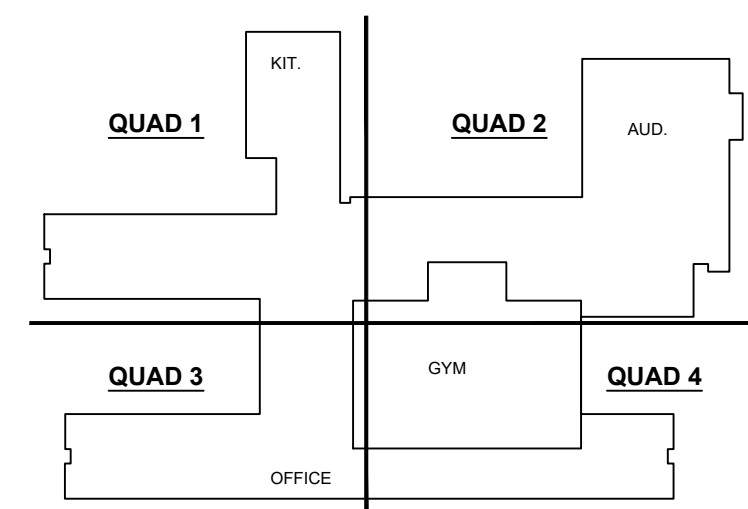
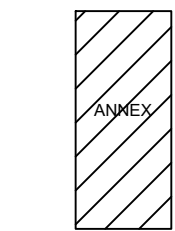
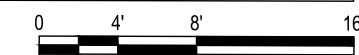
E4.04

ELECTRICAL

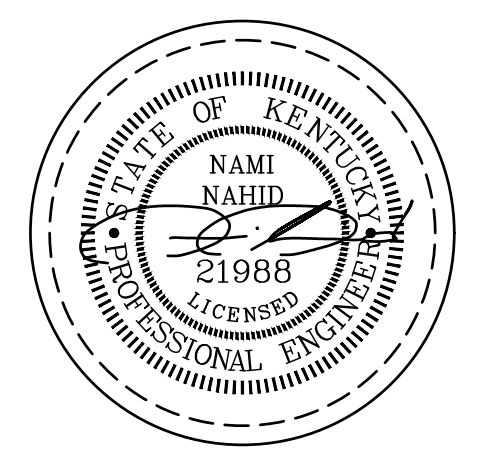




1 ANNEX-FIRE ALARM, COMMUNICATIONS AND SECURITY  
SCALE: 1/8"=1'-0"



KEY PLAN  
NOT TO SCALE



DESIGN PROFESSIONAL



PLAN REVIEWER

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ENSURE THAT ALL PERMITS AND APPROVALS ARE  
OBTAINED PRIOR TO COMMENCING WORK.

BY KEL - EJS

DATE 02/18/2021

SET CONSTRUCTION DOCUMENTS



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FIRE ALARM,  
COMMUNICATIONS,  
SECURITY ANNEX

E4.05

ELECTRICAL

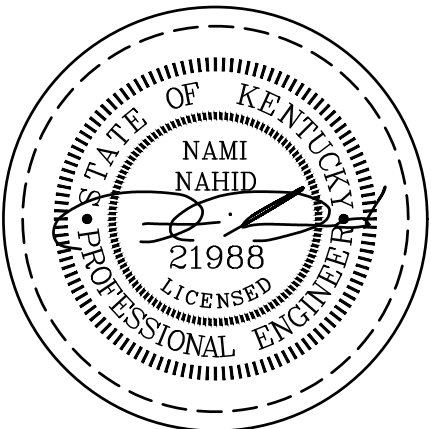




1 FIELD CAMERA COVERAGE  
NOT TO SCALE

FIELD CAMERA NOTES:

1. AREAS SHADED IN REPRESENT CAMERA COVERAGE. TYPICAL
2. CCTV CONTRACTOR SHALL PROVIDE AND INSTALL WIRELESS BRIDGE FOR FIELD CAMERA INSTALLATION. TYPICAL
3. CCTV CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER REQUIREMENTS FOR FIELD CAMERAS.TYPICAL



DESIGN PROFESSIONAL



PLAN REVIEWER

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|------|------------------------|
| BY   | KEL - EJS              |
| DATE | 02/18/2021             |
| SET  | CONSTRUCTION DOCUMENTS |



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FIELD CAMERA  
COVERAGE

E4.06

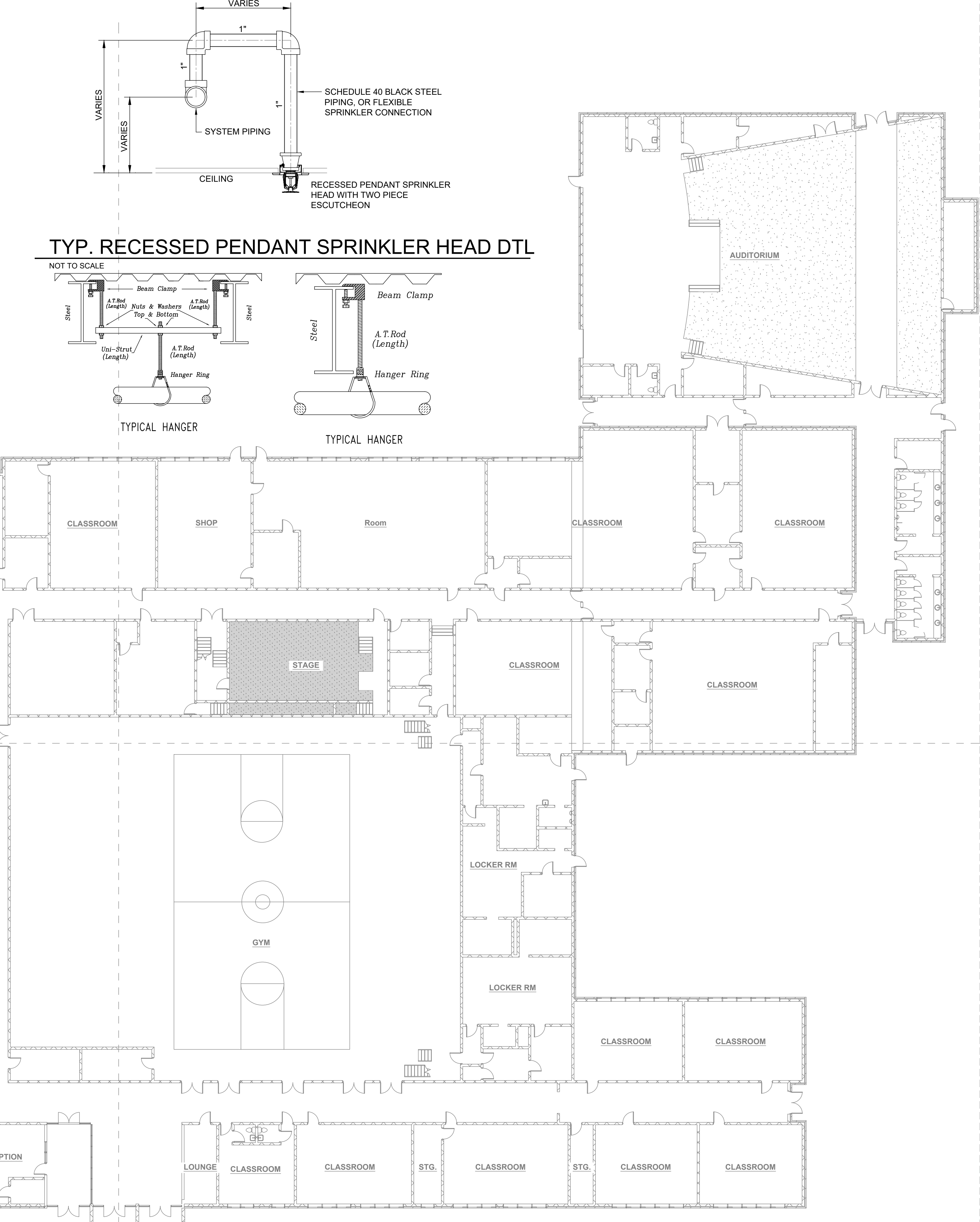
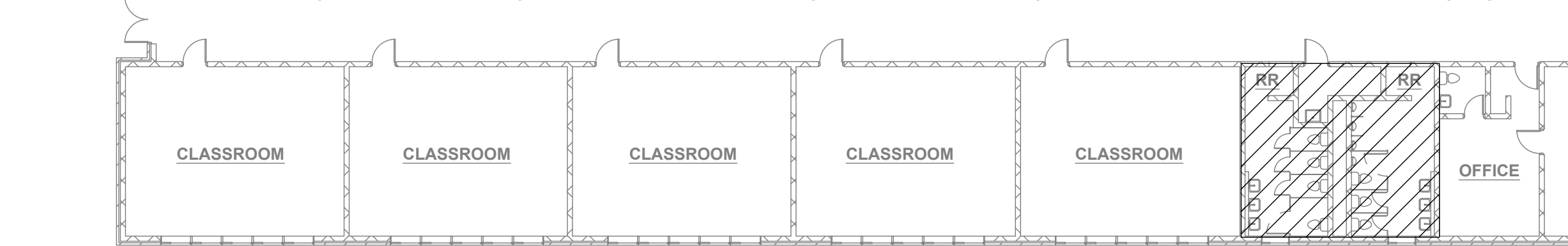
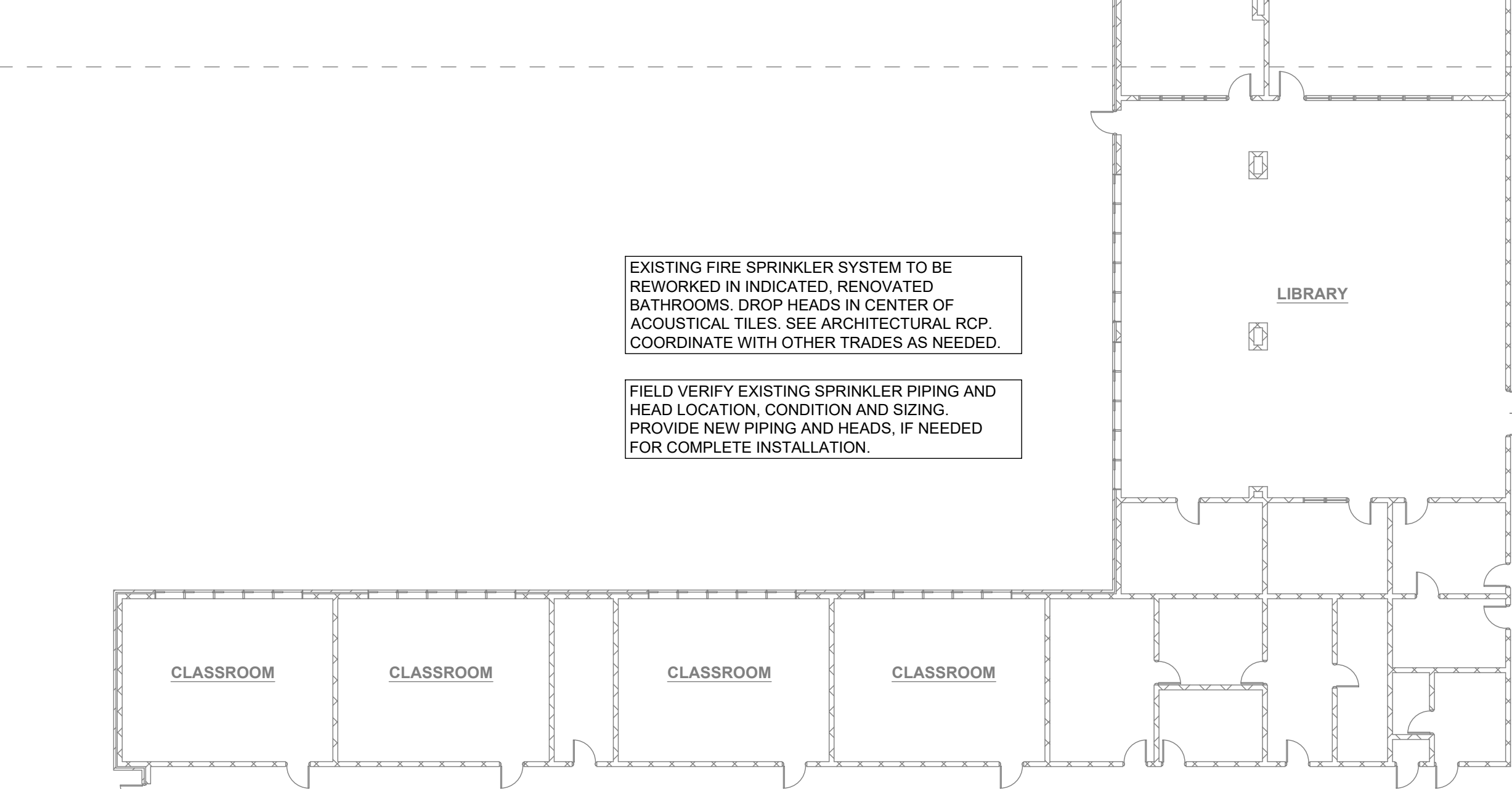
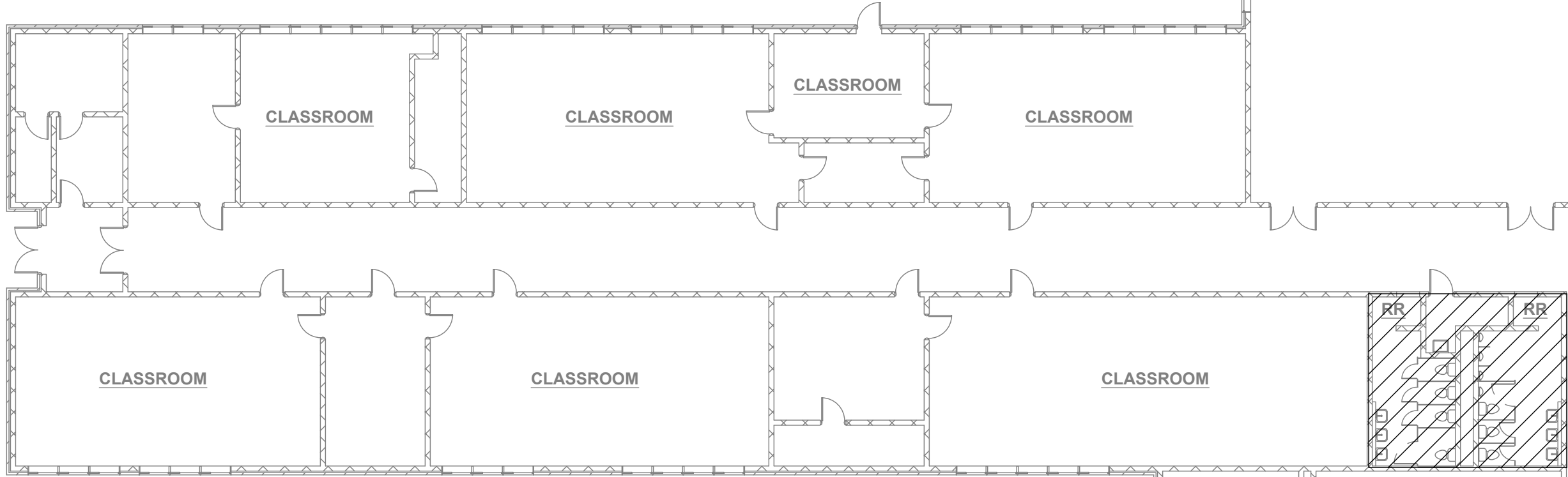
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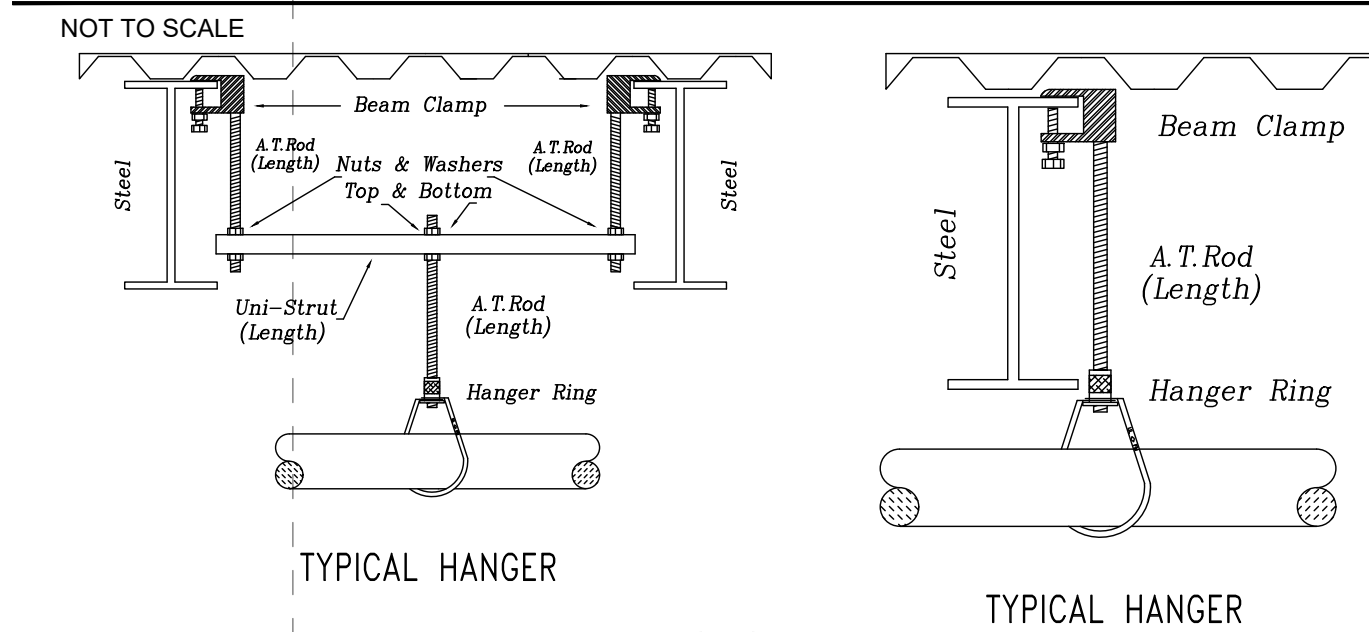


DESIGN INTENT NOTES

1. FIRE PROTECTION SYSTEM TO COMPLY WITH NFPA 13, AND ALL APPLICABLE STATE AND LOCAL CODES. THIS PLAN INDICATES THE INTENT OF THE DESIGN. CONTRACTOR HAS THE OPTION TO REDESIGN PIPING PROVIDED THE INTENT OF THE DESIGN IS NOT ALTERED.
2. ADHERE TO AND OBTAIN ALL PERMITS, LICENSES AND GOVERNMENT REQUIREMENTS.
3. FINAL INSPECTION AND APPROVAL BY LOCAL FIRE DEPARTMENT AND ARCHITECT/ENGINEER.
4. CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS TO BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT.
5. PIPE ROUTING SHOWN CAN BE USED OR EQUIVALENT AND ANY ADDITIONAL OFFSETS OR FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES AND/OR TO MAINTAIN PROPER CLEARANCES SHALL BE PROVIDED. VERIFY EXISTING STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND AVOID ANY/ALL OBSTRUCTIONS OR INTERFERENCES WITH FIRE PROTECTION PIPE ROUTING.
6. FIRE STOP ALL PENETRATIONS OF SMOKE/FIRE WALLS, CEILINGS, FLOORS, ROOFS ETC. FLASH AND COUNTER FLASH ROOF PENETRATIONS. (SEE FIRE RATED PIPE PENETRATION DETAIL).
7. PROVIDE ACCESS PANELS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILINGS AND CHASES.
8. SPRINKLER HEADS ARE TO BE COORDINATED WITH ALL EXISTING/NEW DIFFUSERS, SPEAKERS, LIGHTING FIXTURES AND CEILING SYSTEMS.
9. METHODS OF HANGING PIPES, HEADERS AND BRANCHES SHALL BE IN ACCORDANCE WITH NFPA 13.
10. AUTOMATIC SPRINKLER TEMPERATURE RATINGS OF FUSIBLE ELEMENTS TO BE IN ACCORDANCE WITH NFPA 13.
11. ALL VALVES FOR FIRE SERVICE SHALL BE LISTED BY THE UNDERWRITERS LABORATORIES, INC. AND THE FACTORY MUTUAL LABORATORIES. VALVES SHALL BE FACTORY MARKED "UL" AND "FM", 175 WORKING PRESSURE.
12. A SPRINKLER HEAD SHALL BE INSTALLED NO FURTHER THAT 7'-6" FROM EITHER SIDE OF A MAGNETICALLY HELD OPEN SMOKE DOOR.
13. PROVIDE A PERMANENTLY ATTACHED NAME TAG STATING THE REQUIRED DESIGN CRITERIA FOR EACH HYDRAULICALLY DESIGNED SYSTEM.
14. SPRINKLERS SHALL COVER THE ENTIRE AREA OF THE ROOM. SPRAY SHALL NOT BE BLOCKED BY WALLS OR PARTITIONS.
15. ALL SPRINKLER HEADS MOUNTED IN CEILING SHALL BE LOCATED A MINIMUM OF 4"AWAY FROM ANY WALLS, CEILING HEIGHT CHANGES OR ANY OTHER VERTICAL INTERSECTING SURFACE.
16. PIPE SHALL BE REAMED AND CLEANED BEFORE ASSEMBLY.
17. MAINTAIN A MINIMUM OF 18 INCHES FROM THE BOTTOM OF THE SPRINKLER DEFLECTOR TO THE TOP OF STORAGE/FILE STORAGE.
18. PROVIDE SYSTEM(S) WITH FLUSHING CONNECTION(S).
19. PROVIDE SPRINKLERS ABOVE AND BELOW EXPOSED DUCTWORK 4 FEET AND WIDER.
20. PROVIDE HEAD GUARDS ON SPRINKLER HEADS IN ELECTRIC AND TELEPHONE ROOMS.
21. INSPECTOR'S TEST VALVE SHALL NOT EXCEED 7 FEET ABOVE THE FINISHED FLOOR.



TYP. RECESSED PENDANT SPRINKLER HEAD DTL



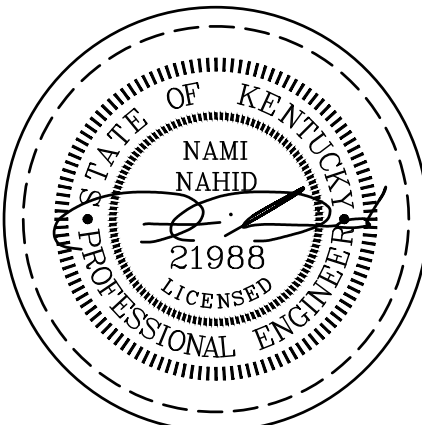
EXISTING FIRE SPRINKLER SYSTEM TO BE REWORKED IN INDICATED, RENOVATED BATHROOMS. DROP HEADS IN CENTER OF ACOUSTICAL TILES. SEE ARCHITECTURAL RCP. COORDINATE WITH OTHER TRADES AS NEEDED.

FIELD VERIFY EXISTING SPRINKLER PIPING AND HEAD LOCATION, CONDITION AND SIZING. PROVIDE NEW PIPING AND HEADS, IF NEEDED FOR COMPLETE INSTALLATION.

1 OVERALL FIRE PROTECTION INTENT

SCALE: 1/16"=1'-0"

0 8' 16' 32'



DESIGN PROFESSIONAL



PLAN REVIEWER

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FIRE INTENT  
PLAN, NOTES & DTL

FP1.01

FIRE PROTECTION