



University of  
Kentucky®  
*Procurement Services*

Request for Proposal

UK-2771.0-1-24

Proposal Due Date – 1/17/2024

Wethington Suite 327 Modifications



# University of Kentucky

Procurement Services

## REQUEST FOR PROPOSAL (RFP)

**ATTENTION: This is not an order. Read all instructions, terms and conditions carefully.**

<b>PROPOSAL NO.:</b>	<b>UK-2771.0-1-24</b>	<b>RETURN ORIGINAL COPY OF PROPOSAL TO:</b>
<b>Issue Date:</b>	<b>12/19/2023</b>	<b>UNIVERSITY OF KENTUCKY</b>
<b>Title:</b>	<b>Wethington Suite 327 Modifications</b>	<b>PROCUREMENT SERVICES</b>
<b>Purchasing Officer:</b>	<b>Corey W. Leslie</b>	<b>411 S LIMESTONE</b>
<b>Phone:</b>	<b>859-257-5409</b>	<b>ROOM 322 PETERSON SERVICE BLDG.</b>
		<b>LEXINGTON, KY 40506-0005</b>

**IMPORTANT: PROPOSALS MUST BE RECEIVED BY: 1/17/2024 3 P.M. LEXINGTON, KY TIME.**

NOTICE OF REQUIREMENTS

- The University's General Terms and Conditions and Instructions to Bidders, viewable at <https://purchasing.uky.edu/bid-and-proposal-opportunities>, apply to this RFP. When the RFP includes construction services, the University's General Conditions and Special Conditions for Construction and Instructions to Bidders, viewable at <https://purchasing.uky.edu/bid-and-proposal-opportunities>, apply to the RFP.
- Contracts resulting from this RFP must be governed by and in accordance with the laws of the Commonwealth of Kentucky.
- Any agreement or collusion among offerors or prospective offerors, which restrains, tends to restrain, or is reasonably calculated to restrain competition by agreement to bid at a fixed price or to refrain from offering, or otherwise, is prohibited.
- Any person who violates any provisions of KRS 45A.325 shall be guilty of a felony and shall be punished by a fine of not less than five thousand dollars nor more than ten thousand dollars, or be imprisoned not less than one year nor more than five years, or both such fine and imprisonment. Any firm, corporation, or association who violates any of the provisions of KRS 45A.325 shall, upon conviction, be fined not less than ten thousand dollars or more than twenty thousand dollars.

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST

I hereby swear (or affirm) under the penalty for false swearing as provided by KRS 523.040:

- That I am the offeror (if the offeror is an individual), a partner, (if the offeror is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the offeror is a corporation);
- That the attached proposal has been arrived at by the offeror independently and has been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other Contractor of materials, supplies, equipment or services described in the RFP, designed to limit independent bidding or competition;
- That the contents of the proposal have not been communicated by the offeror or its employees or agents to any person not an employee or agent of the offeror or its surety on any bond furnished with the proposal and will not be communicated to any such person prior to the official closing of the RFP;
- That the offeror is legally entitled to enter into contracts with the University of Kentucky and is not in violation of any prohibited conflict of interest, including, but not limited to, those prohibited by the provisions of KRS 45A.330 to .340, and 164.390;
- That the offeror, and its affiliates, are duly registered with the Kentucky Department of Revenue to collect and remit the sale and use tax imposed by Chapter 139 to the extent required by Kentucky law and will remain registered for the duration of any contract award;
- That I have fully informed myself regarding the accuracy of the statement made above.

SWORN STATEMENT OF COMPLIANCE WITH CAMPAIGN FINANCE LAWS

In accordance with KRS 45A.110 (2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to a bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

CONTRACTOR REPORT OF PRIOR VIOLATIONS OF KRS CHAPTERS 136, 139, 141, 337, 338, 341 & 342

The contractor by signing and submitting a proposal agrees as required by 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341 and 342 that have occurred in the previous five (5) years prior to the award of a contract and agrees to remain in continuous compliance with the provisions of the statutes during the duration of any contract that may be established. Final determinations of violations of these statutes must be provided to the University by the successful contractor prior to the award of a contract.

CERTIFICATION OF NON-SEGREGATED FACILITIES

The contractor, by submitting a proposal, certifies that he/she is in compliance with the Code of Federal Regulations, No. 41 CFR 60-1.8(b) that prohibits the maintaining of segregated facilities.

**SIGNATURE REQUIRED:** This proposal cannot be considered valid unless signed and dated by an authorized agent of the offeror. Type or print the signatory's name, title, address, phone number and fax number in the spaces provided. Offers signed by an agent are to be accompanied by evidence of his/her authority unless such evidence has been previously furnished to the issuing office.

<b>DELIVERY TIME:</b>	<b>NAME OF COMPANY:</b>	<b>DUNS #</b>
<b>PROPOSAL FIRM THROUGH:</b>	<b>ADDRESS:</b>	<b>Phone/Fax:</b>
<b>PAYMENT TERMS:</b>	<b>CITY, STATE &amp; ZIP CODE:</b>	<b>E-MAIL:</b>
<b>SHIPPING TERMS: F. O. B. DESTINATION PREPAID AND ALLOWED</b>	<b>TYPED OR PRINTED NAME:</b>	<b>WEB ADDRESS:</b>
<b>FEDERAL EMPLOYER ID NO.:</b>	<b>SIGNATURE:</b>	<b>DATE:</b>

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## 1.0 DEFINITIONS

The term "addenda" means written or graphic instructions issued by the University of Kentucky prior to the receipt of proposals that modify or interpret the RFP documents by additions, deletions, clarifications and/or corrections.

The term "competitive negotiations" means the method authorized in the Kentucky Revised Statutes, Chapter 45A.085.

The terms "offer" or "proposal" mean the offeror's/offers' response to this RFP.

The term "offeror" means the entity or contractor group submitting the proposal.

The term "contractor" means the entity receiving a contract award.

The term "purchasing agency" means University of Kentucky Procurement Services Room 322 Peterson Service Building, Lexington, KY 40506-0005.

The term "purchasing official" means the University of Kentucky's appointed contracting representative.

The term "responsible offeror" means a person, company or corporation that has the capability in all respects to perform fully the contract requirements and the integrity and reliability that will assure good faith performance. In determining whether an offeror is responsible, the University may evaluate various factors including (but not limited to): financial resources; experience; organization; technical qualifications; available resources; record of performance; integrity; judgment; ability to perform successfully under the terms and conditions of the contract; adversarial relationship between the offeror and the University that is so serious and compelling that it may negatively impact the work performed under this RFP; or any other cause determined to be so serious and compelling as to affect the responsibility of the offeror.

The term "solicitation" means RFP.

The term "University" means University of Kentucky.

## 2.0 GENERAL OVERVIEW

### 2.1 Intent and Scope

The University seeks proposals from highly qualified contractors with experience delivering projects on time, on budget, and to specification in spaces that have uninterrupted operations. Scope includes modifications to Rooms 327B, C, D, E and F in the Wethington Building. Modifications include but may not be limited to new interior walls, ceilings, floors, doors, and various finishes. Modifications to the HVAC, plumbing, electrical and data systems will also be needed.

### 2.2 Background Information

Rooms 327B, C, D, E and F in the Wethington Building are currently used as offices and a conference room. This modification project will change the layout while keeping the same offices and conference room. New finishes will be included with the modifications.

### 2.3 University Information

Upon his arrival in 2011, President Eli Capilouto set an ambitious agenda to extend and enhance our role as Kentucky's land-grant and flagship research university. By focusing on infrastructure growth and improvement; creating opportunities for innovative teaching, learning and academic excellence; fostering a robust research enterprise; providing life-saving subspecialty care; empowering communities through service and outreach; and encouraging a transparent and shared dialogue about institutional priorities; the University of Kentucky will help ensure a Kentucky tomorrow that is healthier, wealthier and wiser than it is today.

Our mission is to advance Kentucky.

Founded in 1865 as a land-grant institution adjacent to downtown Lexington, UK is nestled in the scenic heart of the beautiful Bluegrass region of Kentucky. From its early beginnings, with only 190 students and 10 professors, UK's campus now covers more than 900 acres. The university enrolled more than 32,000 students in Fall 2022 and has approximately 25,000 employees, including nearly 3,000 full-time faculty.

UK is one of a small number of universities in the United States that has programs in agriculture, engineering, law, fine arts and a full complement of health colleges including medicine and pharmacy, on a single campus alongside an academic health system, leading to groundbreaking discoveries and unique interdisciplinary collaboration.

The state's flagship university consists of 18 academic and professional colleges where students can choose from more than 200 majors and degree programs at the undergraduate and graduate levels. The colleges are Agriculture, Food and Environment; Arts and Sciences; Business and Economics; Communication and Information; Dentistry; Design; Education; Engineering; Fine Arts; Graduate School; Health Sciences; Honors; Law; Medicine; Nursing; Pharmacy; Public Health; and Social Work. These colleges are supported by a modern research library system.

Research at the University of Kentucky is a dynamic enterprise encompassing both traditional scholarship and emerging technologies. UK's research faculty, staff and students are establishing UK as one of the nation's most prolific public research universities. UK researchers were awarded

more than \$452.9 million in extramural grant and contract funding in fiscal year 2022. Fifty-six percent of this funding comes from agencies in the federal government (\$256 million) such as the National Institutes of Health, National Science Foundation, Department of Energy, Department of Defense and numerous other federal, state and industry sponsors. Expenditures from research and development (R&D) activities at the university generate more than \$772 million in economic development across the Commonwealth of Kentucky and support more than 4,395 jobs.

With more than 70 research centers and institutes, UK researchers are discovering new knowledge, providing a rich training ground for current students and the next generation of researchers and advancing the economic growth of the Commonwealth of Kentucky. Several centers excel in the services offered to the public. The Gluck Equine Research Center is one of only three facilities of its kind in the world, conducting equine disease research.

The Center for Applied Energy Research (CAER) is internationally recognized for research in algae for carbon dioxide clean up, carbon materials, concrete and cement, emissions control in utilities, energy policy, fuels research, hydrogen, materials characterization and plant optimization.

Among the brightest examples of UK's investment in transformative research is the Markey Cancer Center. As a center of excellence and distinction at UK, Markey's robust research and clinical enterprise is the cornerstone of our commitment to Kentucky – fundamental to our success in uplifting lives through our endeavors and improving the general health and welfare of our state – burdened by the nation's highest rate of cancer deaths per 100,000 people. In 2013, Markey earned the prestigious National Cancer Institute-designation (NCI) – one of 68 nationally and the only one in Kentucky. The designation was renewed in 2018.

Both CAER and Markey are cornerstones of seven Research Priority Areas (RPAs) at the University of Kentucky. These areas — chosen based on local relevance, existing funding strength, sustainability and disciplinary scholarly diversity — focus UK's top research talent on the most pressing challenges confronting our state.

The University of Kentucky is the recipient of a Clinical Translational Sciences Award (CTSA) from the National Institutes of Health (NIH). As one of only 60 institutions with this research distinction, UK was awarded the CTSA for its potential in moving research and discovery in the lab into practical field and community applications. The CTSA and NCI are part of a trifecta of federal research grants that includes an Alzheimer's Disease Center. UK is one of only 29 universities in the country to hold all three premier grants from NIH.

Established in 1957, the medical center at UK is one of the nation's finest academic medical centers and includes the university's clinical enterprise, UK HealthCare. Licensed for 965 beds across UK Albert B. Chandler Hospital, Kentucky Children's Hospital and UK Good Samaritan Hospital, the system is supported by a growing faculty and staff providing the most advanced subspecialty care for the most critically injured and ill patients throughout the Commonwealth and beyond. Since 2014, the number of patients served by the medical enterprise has nearly doubled, with more than 38,000 discharges in 2022.

UK Chandler Hospital includes the only Level 1 Trauma Center for both adult and pediatric patients in Central and Eastern Kentucky. In addition, UK HealthCare recently opened one of the country's largest robotic hybrid operating rooms and the first of its kind in the region. While the new patient care pavilion is the leading health care facility for advanced medical procedures in the region, our talented physicians consult with and travel to our network of affiliate hospitals so Kentuckians can



receive the best health care available close to their home and never need to leave the Bluegrass for complex subspecialty care.

As of December 1, 2022, King's Daughters Medical Center, based in Ashland, Kentucky, officially became part of the University of Kentucky. King's Daughters Medical Center serves a 16-county region across Kentucky, Ohio and West Virginia. Its health system is composed of two acute-care hospitals totaling 465 licensed beds, more than 50 ambulatory centers and practice locations, a long-term care facility, medical transport company and six urgent care centers.

UK's agenda remains committed to accelerating the university's academic excellence in all areas and gaining worldwide recognition for its outstanding academic programs, its commitment to students, its investment in pioneering research and discovery, its success in building a diverse community and its engagement with the larger society. This commitment is all part of the university's mission as a 21st century flagship and land-grant research university. From its Nobel Laureates to cutting-edge work in addressing health disparities, and from the artistic wonders that stir souls to our scientific creativity that inspires minds, UK seeks a brighter future through the contributions of our faculty, staff, students and alumni.

We are the University of Kentucky. We are committed to advancing Kentucky in everything that we do.

## **SUSTAINABILITY**

Sustainability is an institution-wide priority for the University of Kentucky. We strive to ensure that all activities are ecologically sound, socially just, and economically viable, and that they will continue to be so for future generations. This commitment also prioritizes the integration of these principles in curricula, research, athletics, health care, creative works, and outreach. This principled approach to operational practices and intellectual pursuits is intended to prepare students and empower the campus community to support sustainable development in the Commonwealth and beyond. The UK Sustainability Strategic Plan guides these efforts (<https://www.uky.edu/sustainability/sustainability-strategic-plan>).

### **2.4 Economic Inclusion and Procurement**

The University of Kentucky is committed to serving as an advocate for diverse businesses and Kentucky located businesses. Diverse Business Enterprises (DBE) consist of minority, women, disabled, veteran and disabled veteran owned business firms that are at least fifty-one percent owned and operated by an individual(s) of the aforementioned categories. Also included in this category are disabled business enterprises and non-profit work centers for the blind and severely disabled. To be deemed a Kentucky located Business a company must have a physical facility located in the Commonwealth of Kentucky that is engaged in on-going business operations.

The University is committed to increasing the amount of goods and services acquired from businesses owned and controlled by diverse persons to 10% of all procurement expenditures. The University expects its suppliers to support and assist in this effort. The University is also dedicated to increasing the amount of goods and services acquired from Kentucky located companies to the greatest extent possible in support of our economic development efforts.

Among the University's goals for DBE participation in procurement are:

- To ensure the absence of barriers that reduce their participation.
- Educate vendors on "how to" do business with the University.
- Support diverse and Kentucky located vendors seeking to do business with the University in the areas of goods, services, construction, and other areas of procurement.
- Encourage participation of qualified diverse and Kentucky located vendors by directing them to agencies that can benefit from their product or service.
- Provide resources for diverse and Kentucky located vendors.
- Sponsor events to assist diverse and Kentucky located vendors in becoming active, responsible, and responsive participants in the University's purchasing opportunities.

*For additional information regarding how diverse and Kentucky located suppliers may participate in this Request for Proposal, submit any questions to the Procurement Officer as indicated in Section 3.2 by the Deadline for Written Questions date*

**3.0 PROPOSAL REQUIREMENTS**

**3.1 Key Event Dates**

Release of RFP	12/19/2023
Pre-Proposal Conference (Optional)	1/5/2024
Deadline for Written Questions	3 p.m Lexington KY time 1/12/2024
RFP Proposals Due	3 p.m. Lexington, KY time 1/17/2024

**3.2 Offeror Communication**

All communications with the University regarding this RFP shall only be directed to the procurement officer listed above.

All addenda and updates will be communicated through the Lynn Imaging Planroom.

Plans, Specifications, and official solicitation documents are available from:

Lynn Imaging  
 328 Old Vine Street  
 Lexington Kentucky 40507  
 Phone (859) 255-1021  
 Fax (859) 233-1558

In addition, Lynn Imaging and the University have a web site at: [www.ukplanroom.com](http://www.ukplanroom.com) where plans can be ordered.

Interested vendors must identify the status of their firm as a prime contractor, miscellaneous subcontractor, material supplier or other when ordering Plans and Specifications.

### **3.3 Pre-Proposal Conference**

A pre-proposal conference will be held in Lexington, Kentucky on 1/5/2024 in Room 215 Conference Room located in the Peterson Service Building, 411 S. Limestone, Lexington, KY 40508 to allow prospective contractors an opportunity to ask questions and clarify the University's expectations. This conference provides offerors an opportunity for oral questions.

The following items should be noted in reference to the pre-proposal conference:

- Attendance at the pre-proposal conference is optional. At this conference, the scope of services will be discussed in detail.
- Offerors are encouraged to submit written questions after the conference by the date listed in Section 3.1.

The University will prepare written responses to all questions submitted and make them available to all offerors. The questions and answers will be made part of the RFP and may become part of the contract with the successful contractor. Answers given orally at the conference are not binding.

### **3.4 Offeror Presentations**

All offerors whose proposals are judged acceptable for award may be required to make a presentation to the evaluation committee.

### **3.5 Preparation of Offers**

The offeror is expected to follow all specifications, terms, conditions and instructions in this RFP.

The offeror will furnish all information required by this solicitation.

Proposals should be prepared simply and economically, providing a description of the offeror's capabilities to satisfy the requirements of the solicitation. Emphasis should be on completeness and clarity of content. All documentation submitted with the proposal should be bound in the single volume except as otherwise specified.

An electronic version of the RFP, in .PDF format only, is available through the University of Kentucky Purchasing Division website at: <https://purchasing.uky.edu/bid-and-proposal-opportunities>.

### **3.6 Proposed Deviations from the RFP**

The stated requirements appearing elsewhere in this RFP shall become a part of the terms and conditions of any resulting contract. Any deviations therefrom must be specifically defined in accordance with the transmittal letter, Section 4.3 (d). If accepted by the University, the deviations shall become part of the contract, but such deviations must not be in conflict with the basic nature of this RFP.

Note: Offerors shall not submit their standard terms and conditions as exceptions to the University's General Terms and Conditions. Each exception to the University's General Terms and Conditions shall be individually addressed.

### **3.7 Proposal Submission and Deadline**

Offeror must provide the following materials prior to 3 p.m. (Lexington, KY time) on the date specified in Section 3.1 and addressed to the purchasing officer listed in Section 3.2:

- **Technical Proposal:** One (1) electronic storage device (USB) clearly marked with the proposal number and name, firm name and what is included (Technical Proposal) and two (2) printed copies
- **Financial Proposal:** One (1) electronic storage device (USB) clearly marked with the proposal number and name, firm name and what is included (Financial Offer) and two (2) printed copies

Do not password protect the electronic storage devices.

Proposals shall be enclosed in sealed envelopes to the above referenced address and shall show on the face of the envelope: the closing time and date specified, the solicitation number and the name and address of the offeror. The technical proposal shall be submitted in a sealed envelope and the financial proposal shall be submitted in a sealed envelope under separate cover. Both sealed envelopes shall have identical information on the cover, with the addition that one will state "Technical Information," and the other, "Financial Proposal."

**Proposals received after the closing date and time will not be considered. In addition, proposals received via fax or e-mail are not acceptable.**

**Please note: the University of Kentucky accepts deliveries of RFPs Monday through Friday from 8 a.m. to 5 p.m. Lexington, KY time. However, RFPs must be received by 3 p.m. Lexington, KY time on the date specified on the RFP in order to be considered.**

Note: In accordance with the Kentucky Revised Statute 45A.085, there will be no public opening.

### **3.8 Modification or Withdrawal of Offer**

An offer and/or modification of offer received at the office designated in the solicitation after the exact hour and date specified for receipt will not be considered.

An offer may be modified or withdrawn by written notice before the exact hour and date specified for receipt of offers. An offer also may be withdrawn in person by an offeror or an authorized representative, provided the identity of the person is made known and the person signs a receipt for the offer, but only if the withdrawal is made prior to the exact hour and date set for receipt of offers.

### **3.9 Acceptance or Rejection and Award of Proposal**

The University reserves the right to accept or reject any or all proposals (or parts of proposals), to waive any informalities or technicalities, to clarify any ambiguities in proposals and (unless otherwise specified) to accept any item in the proposal. In case of error in extension or prices or other errors in calculation, the unit price shall govern. Further, the University reserves the right to make a single award, split awards, multiple awards or no award, whichever is in the best interest of the University.

### **3.10 Rejection**

Grounds for the rejection of proposals include (but shall not be limited to):

- Failure of a proposal to conform to the essential requirements of the RFP.
- Imposition of conditions that would significantly modify the terms and conditions of the solicitation or limit the offeror's liability to the University on the contract awarded on the basis of such solicitation.
- Failure of the offeror to sign the University RFP. This includes the Authentication of Proposal and Statement of Non-Collusion and Non-Conflict of Interest statements.
- Receipt of proposal after the closing date and time specified in the RFP.

### **3.11 Addenda**

Any addenda or instructions issued by the purchasing agency prior to the time for receiving proposals shall become a part of this RFP. Such addenda shall be acknowledged in the proposal. No instructions or changes shall be binding unless documented by a proper and duly issued addendum.

### **3.12 Disclosure of Offeror's Response**

The RFP specifies the format, required information and general content of proposals submitted in response to this RFP. The purchasing agency will not disclose any portions of the proposals prior to contract award to anyone outside the Purchasing Division, the University's administrative staff, representatives of the state or federal government (if required) and the members of the committee evaluating the proposals. After a contract is awarded in whole or in part, the University shall have the right to duplicate, use or disclose all proposal data submitted by offerors in response to this RFP as a matter of public record.

Any submitted proposal shall remain valid six (6) months after the proposal due date.

The University shall have the right to use all system ideas, or adaptations of those ideas, contained in any proposal received in response to this RFP. Selection or rejection of the proposal will not affect this right.

**3.13 Restrictions on Communications with University Staff**

From the issue date of this RFP until a contractor is selected and a contract award is made, offerors are not allowed to communicate about the subject of the RFP with any University administrator, faculty, staff or members of the board of trustees except: the purchasing office representative, any University purchasing official representing the University administration, others authorized in writing by the purchasing office and University representatives during offeror presentations. If violation of this provision occurs, the University reserves the right to reject the offeror's proposal.

**3.14 Cost of Preparing Proposal**

Costs for developing the proposals and any subsequent activities prior to contract award are solely the responsibility of the offerors. The University will provide no reimbursement for such costs.

**3.15 Disposition of Proposals**

All proposals become the property of the University. The successful proposal will be incorporated into the resulting contract by reference.

**3.16 Alternate Proposals**

Offerors may submit alternate proposals. If more than one proposal is submitted, all must be complete (separate) and comply with the instructions set forth within this document. Each proposal will be evaluated on its own merits.

**3.17 Questions**

All questions should be submitted by e-mail to the purchasing officer listed in Section 3.2 no later than the date listed in Section 3.1.

**3.18 Section Titles in the RFP**

Section titles used herein are for the purpose of facilitating ease of reference only and shall not be construed to infer the construction of contractual language.

**3.19 No Contingent Fees**

No person or selling agency shall be employed or retained or given anything of monetary value to solicit or secure this contract, except bona fide employees of the offeror or bona fide established commercial or selling agencies maintained by the offeror for the purpose of securing business. For breach or violation of this provision, the University shall have the right to reject the proposal, annul the contract without liability, or, at its discretion, deduct from the contract price or otherwise recover the full amount of such commission, percentage, brokerage or contingent fee or other benefit.

**3.20 Proposal Addenda and Rules for Withdrawal**

Prior to the date specified for receipt of offers, a submitted proposal may be withdrawn by submitting a written request for its withdrawal to the University purchasing office, signed by the offeror. Unless requested by the University, the University will not accept revisions or alterations to proposals after the proposal due date.

**3.21 Requirement To Perform Vendor Onboarding and Registration**

As a condition of award, and for any renewals performed during the life of the contract, successful Contractor agrees to register their company with PaymentWorks, Inc., the University's vendor onboarding application. Registration information will be provided by the Purchasing Division as part of the award process. During the vendor registration process, successful Contractor agrees to provide any applicable information pertaining to diversity demographics for their company. Further, should any company or diversity information change during the life of the contract, successful Contractor agrees to update this information in PaymentWorks as applicable.

## **4.0 PROPOSAL FORMAT AND CONTENT**

### **4.1 Proposal Information and Criteria**

The following list specifies the items to be addressed in the proposal. Offerors should read it carefully and address it completely and in the order listed to facilitate the University's review of the proposal.

Proposals shall be organized into the sections identified below. The content of each section is detailed in the following pages. It is strongly suggested that offerors use the same numbers for the following content that are used in the RFP.

- Signed Authentication of Proposal and Statement of Non-Collusion and Non-Conflict of Interest Form
- Transmittal Letter
- Executive Summary and Proposal Overview
- Criteria 1 - Offeror Qualifications
- Criteria 2 - Services Defined
- Criteria 3 - Financial Proposal
- Criteria 4 - Evidence of Successful Performance and Implementation Schedule
- Criteria 5 - Other Additional Information

### **4.2 Signed Authentication of Proposal and Statements of Non-Collusion and Non-Conflict of Interest Form**

The Offeror will sign and return the proposal cover sheet and print or type their name, firm, address, telephone number and date. The person signing the offer must initial erasures or other changes. An offer signed by an agent is to be accompanied by evidence of their authority unless such evidence has been previously furnished to the purchasing agency. The signer shall further certify that the proposal is made without collusion with any other person, persons, company or parties submitting a proposal; that it is in all respects fair and in good faith without collusion or fraud; and that the signer is authorized to bind the principal offeror.

### **4.3 Transmittal Letter**

The Transmittal Letter accompanying the RFP shall be in the form of a standard business letter and shall be signed by an individual authorized to legally bind the offeror. It shall include:

- A statement referencing all addenda and written questions, the answers and any clarifications to this RFP issued by the University and received by the offeror (If no addenda have been received, a statement to that effect should be included.).
- A statement that the offeror's proposal shall remain valid for six (6) months after the closing date of the receipt of the proposals.
- A statement that the offeror will accept financial responsibility for all travel expenses incurred for oral presentations (if required) and candidate interviews.



- A statement that summarizes any deviations or exceptions to the RFP requirements and includes a detailed justification for the deviation or exception.
- A statement that identifies the confidential information as described in Section 6.23.

#### **4.4 Executive Summary and Proposal Overview**

The Executive Summary and Proposal Overview shall condense and highlight the contents of the technical proposal in such a way as to provide the evaluation committee with a broad understanding of the entire proposal.

As part of the Executive Summary and Proposal Overview, Offeror shall submit with their response a summarized profile describing the demographic nature of their company or organization:

1. When was your organization established and/or incorporated?
2. Indicate whether your organization is classified as local, regional, national, or international.
3. Describe the size of your company in terms of number of employees, gross sales, etc.
4. Is your company certified as small business, minority-owned, women-owned, veteran-owned, disabled-owned, or similar classification?
5. Include other demographic information that you feel may be applicable to the Request for Proposal submission.
6. Offeror shall describe in detail their company's commitment to diversity, equity, and inclusion. Information shall be provided as to the number of diverse individuals that the vendor employees as well as a description of vendors efforts to do business with Diverse Business Enterprises as they conduct their own business. In additional, please indicate the diversity nature of your company as well as ownership race/ethnicity.

<b>Diverse Business Description</b>	<b>Check All That Apply</b>
Minority-Owned	
Woman-Owned	
Small Business	
Veteran-Owned	
LGBTQ-Owned	
Disability-Owned Business Entity (DOBE)	
Diversity not indicated	

<b>Race/Ethnicity</b>	<b>Check One</b>
Asian	
Black/African American	
Hispanic or Latino	
Native American	
Native Hawaiian/Pacific Islander	
White	
Other	
Prefer not to say	

**4.5 Criteria 1 - Offeror Qualifications**

The purpose of the Offeror Qualifications section is to determine the ability of the offeror to respond to this RFP. Offerors should describe and offer evidence of their ability to meet each of the qualifications listed below.

Our supply chains and business partnerships are an important aspect of this work. In your proposal, please (A) provide your company’s mission and vision relative to sustainability, and (B) how your company, through services, products, and partnerships, will help the University of Kentucky advance specific elements of the Sustainability Strategic Plan.

Provide a brief narrative describing the history of your firm. Include the number of employees in your firm, and brief bios of the ownership and executive management.

If your firm has had any contract terminated by another party *for reasons other than convenience* within the last five years, describe each incident.

Provide an organizational chart of your firm indicating the lines of authority for the senior personnel involved in performance of this contract and relationships of this staff to other programs or functions of the firm. This chart should show lines of authority to the next senior level of management beyond the project team level.

Provide the resumes of each proposed team member with relevant active behavioral health facility construction experience.

Provide a list of previous projects demonstrating your firm's experience working on an active inpatient behavioral health environment.

Provide your firm's intended safety and logistics plan.

#### **4.6 Criteria 2 – Services Defined**

Refer to the Scope of Services, Section 7.0 and provide the information required

#### **4.7 Criteria 3 – Financial Proposal**

The Financial Summary Form shall contain the complete financial offer made to the University using the format contained in Section 8.0. All financial information must be submitted in a sealed envelope under separate cover.

#### **4.8 Criteria 4 – Evidence of Successful Performance and Implementation Schedule**

Offeror shall give detail to their proposed schedule, including duration of work and phasing throughout an occupied space with access to only two rooms at a time.

#### **4.9 Criteria 5 – Other Additional Information**

The offeror may present any creative approaches that might be appropriate. The offeror may also provide supporting documentation that would be pertinent to this RFP.

Offeror shall describe in detail their company's commitment to diversity, equity and inclusion. Information shall be provided as to the number of diverse individuals that the vendor employees as well as a description of vendors efforts to do business with Diverse Business Enterprises as they conduct their own business.

## 5.0 EVALUATION CRITERIA PROCESS

A committee of University officials appointed by the Chief Procurement Officer will evaluate proposals and make a recommendation to the Chief Procurement Officer. The evaluation will be based upon the information provided in the proposal, additional information requested by the University for clarification, information obtained from references and independent sources and oral presentations (if requested).

The evaluation of responsive proposals shall then be completed by an evaluation team, which will determine the ranking of proposals. Proposals will be evaluated strictly in accordance with the requirements set forth in this solicitation, including any addenda that are issued. The University will award the contract to the responsible offeror whose proposal is determined to be the most advantageous to the University, taking into consideration the evaluation factors set forth in this RFP.

The evaluation of proposals will include consideration of responses to the list of criteria in Section 4.0. Offerors must specifically address all criteria in their response. Any deviations or exceptions to the specifications or requirements must be described and justified in a transmittal letter. Failure to list such exceptions or deviations in the transmittal letter may be considered sufficient reason to reject the proposal.

The relative importance of the criteria is defined below:

### **Primary Criteria**

- Offeror Qualifications
- Services Defined
- Financial Proposal
- Evidence of Successful Performance and Implementation

### **Secondary Criteria**

- Other Additional Services

The University will evaluate proposals as submitted and may not notify offerors of deficiencies in their responses.

Proposals must contain responses to each of the criteria, listed in Section 4 even if the offeror's response cannot satisfy those criteria. A proposal may be rejected if it is conditional or incomplete in the judgment of the University.

## **6.0 SPECIAL CONDITIONS**

Refer to Special Conditions (Attachment C).

### **6.1 Contract Term**

Refer to Special Conditions Article 06 Time for Completion (Attachment C).

### **6.2 Effective Date**

The effective date of the contract shall be the date upon which the parties execute it and all appropriate approvals, including that of the Commonwealth of Kentucky Government Contracts Review Committee, have been received.

### **6.3 Competitive Negotiation**

It is the intent of the RFP to enter into competitive negotiation as authorized by KRS 45A.085.

The University will review all proposals properly submitted. However, the University reserves the right to request necessary modifications, reject all proposals, reject any proposal that does not meet mandatory requirement(s) or cancel this RFP, according to the best interests of the University.

Offeror(s) selected to participate in negotiations may be given an opportunity to submit a Best and Final Offer to the purchasing agency. All information-received prior to the cut-off time will be considered part of the offeror's Best and Final Offer.

The University also reserves the right to waive minor technicalities or irregularities in proposals providing such action is in the best interest of the University. Such waiver shall in no way modify the RFP requirements or excuse the offeror from full compliance with the RFP specifications and other contract requirements if the offeror is awarded the contract.

### **6.4 Appearance Before Committee**

Any, all or no offerors may be requested to appear before the evaluation committee to explain their proposal and/or to respond to questions from the committee concerning the proposal. Offerors are prohibited from electronically recording these meetings. The committee reserves the right to request additional information.

### **6.5 Additions, Deletions or Contract Changes**

The University reserves the right to add, delete, or change related items or services to the contract established from this RFP. No modification or change of any provision in the resulting contract shall be made unless such modification is mutually agreed to in writing by the contractor and the Chief Procurement Officer and incorporated as a written modification to the contract. Memoranda of understanding and correspondence shall not be interpreted as a modification to the contract.

### **6.6 Contractor Cooperation in Related Efforts**

The University reserves the right to undertake or award other contracts for additional or related work to other entities. The contractor shall fully cooperate with such other contractors and University employees and carefully fit its work to such additional work. The contractor shall not commit or permit any act which will interfere with the performance of work by any other contractor or by University employees. This clause shall be included in the contracts of all contractors with whom this contractor will be required to cooperate. The University shall equitably enforce this clause to all contractors to prevent the imposition of unreasonable burdens on any contractor.

#### **6.7 Entire Agreement**

The RFP shall be incorporated into any resulting contract. The resulting contract, including the RFP and those portions of the offeror's response accepted by the University, shall be the entire agreement between the parties.

#### **6.8 Governing Law**

The contractor shall conform to and observe all laws, ordinances, rules and regulations of the United States of America, Commonwealth of Kentucky and all other local governments, public authorities, boards or offices relating to the property or the improvements upon same (or the use thereof) and will not permit the same to be used for any illegal or immoral purposes, business or occupation. The resulting contract shall be governed by Kentucky law and any claim relating to this contract shall only be brought in the Franklin Circuit Court in accordance with KRS 45A.245.

#### **6.9 Kentucky's Personal Information Security and Breach Investigation Procedures and Practices Act**

To the extent Company receives Personal Information as defined by and in accordance with Kentucky's Personal Information Security and Breach Investigation Procedures and Practices Act, KRS 61.931, 61.932 and 61.933 (the "Act"), Company shall secure and protect the Personal Information by, without limitation: (i) complying with all requirements applicable to non-affiliated third parties set forth in the Act; (ii) utilizing security and breach investigation procedures that are appropriate to the nature of the Personal Information disclosed, at least as stringent as University's and reasonably designed to protect the Personal Information from unauthorized access, use, modification, disclosure, manipulation, or destruction; (iii) notifying University of a security breach relating to Personal Information in the possession of Company or its agents or subcontractors within seventy-two (72) hours of discovery of an actual or suspected breach unless the exception set forth in KRS 61.932(2)(b)2 applies and Company abides by the requirements set forth in that exception; (iv) cooperating with University in complying with the response, mitigation, correction, investigation, and notification requirements of the Act, (v) paying all costs of notification, investigation and mitigation in the event of a security breach of Personal Information suffered by Company; and (vi) at University's discretion and direction, handling all administrative functions associated with notification, investigation and mitigation.

## **6.10 Termination for Convenience**

The University of Kentucky, Purchasing Division, reserves the right to terminate the resulting contract without cause with a thirty (30) day written notice. Upon receipt by the contractor of a "notice of termination," the contractor shall discontinue all services with respect to the applicable contract. The cost of any agreed upon services provided by the contractor will be calculated at the agreed upon rate prior to a "notice of termination" and a fixed fee contract will be pro-rated (as appropriate).

## **6.11 Termination for Non-Performance**

### Default

The University may terminate the resulting contract for non-performance, as determined by the University, for such causes as:

- Failing to provide satisfactory quality of service, including, failure to maintain adequate personnel, whether arising from labor disputes, or otherwise any substantial change in ownership or proprietorship of the Contractor, which in the opinion of the University is not in its best interest, or failure to comply with the terms of this contract;
- Failing to keep or perform, within the time period set forth herein, or violation of, any of the covenants, conditions, provisions or agreements herein contained;
- Adjudicating as a voluntarily bankrupt, making a transfer in fraud of its creditors, filing a petition under any section from time to time, or under any similar law or statute of the United States or any state thereof, or if an order for relief shall be entered against the Contractor in any proceeding filed by or against contractor thereunder. In the event of any such involuntary bankruptcy proceeding being instituted against the Contractor, the fact of such an involuntary petition being filed shall not be considered an event of default until sixty (60) days after filing of said petition in order that Contractor might during that sixty (60) day period have the opportunity to seek dismissal of the involuntary petition or otherwise cure said potential default; or
- Making a general assignment for the benefit of its creditors, or taking the benefit of any insolvency act, or if a permanent receiver or trustee in bankruptcy shall be appointed for the Contractor.

### Demand for Assurances

In the event the University has reason to believe Contractor will be unable to perform under the Contract, it may make a demand for reasonable assurances that Contractor will be able to timely perform all obligations under the Contract. If Contractor is unable to provide such adequate assurances, then such failure shall be an event of default and grounds for termination of the Contract.

### Notification

The University will provide ten (10) calendar days written notice of default. Unless arrangements are made to correct the non-performance issues to the University's satisfaction within ten (10) calendar days, the University may terminate the contract by giving forty-five (45) days notice, by registered or certified mail, of its intent to cancel this contract.

#### **6.12 Funding Out**

The University may terminate this contract if funds are not appropriated or are not otherwise available for the purpose of making payments without incurring any obligation for payment after the date of termination, regardless of the terms of the contract. The University shall provide the contractor thirty (30) calendar days' written notice of termination under this provision.

#### **6.13 Prime Contractor Responsibility**

Any contracts that may result from the RFP shall specify that the contractor(s) is/are solely responsible for fulfillment of the contract with the University.

#### **6.14 Assignment and Subcontracting**

The Contractor(s) may not assign or delegate its rights and obligations under any contract in whole or in part without the prior written consent of the University. Any attempted assignment or subcontracting shall be void.

#### **6.15 Permits, Licenses, Taxes**

The contractor shall procure all necessary permits and licenses and abide by all applicable laws, regulations and ordinances of all federal, state and local governments in which work under this contract is performed.

The contractor must furnish certification of authority to conduct business in the Commonwealth of Kentucky as a condition of contract award. Such registration is obtained from the Secretary of State, who will also provide the certification thereof. However, the contractor need not be registered as a prerequisite for responding to the RFP.

The contractor shall pay any sales, use, personal property and other tax arising out of this contract and the transaction contemplated hereby. Any other taxes levied upon this contract, the transaction or the equipment or services delivered pursuant hereto shall be the responsibility of the contractor.

The contractor will be required to accept liability for payment of all payroll taxes or deductions required by local and federal law including (but not limited to) old age pension, social security or annuities.



**6.16 Attorneys' Fees**

In the event that either party deems it necessary to take legal action to enforce any provision of the contract and in the event that the University prevails, the contractor agrees to pay all expenses of such action including attorneys' fees and costs at all stages of litigation.

**6.17 Royalties, Patents, Copyrights and Trademarks**

The Contractor shall pay all applicable royalties and license fees. If a particular process, products or device is specified in the contract documents and it is known to be subject to patent rights or copyrights, the existence of such rights shall be disclosed in the contract documents and the Contractor is responsible for payment of all associated royalties. To the fullest extent permitted by law the Contractor shall indemnify, hold the University harmless, and defend all suits, claims, losses, damages or liability resulting from any infringement of patent, copyright, and trademark rights resulting from the incorporation in the Work or device specified in the Contract Documents.

Unless provided otherwise in the contract, the Contractor shall not use the University's name nor any of its trademarks or copyrights, although it may state that it has a Contract with the University.

**6.18 Indemnification**

The contractor shall indemnify, hold and save harmless the University, its affiliates and subsidiaries and their officers, agents and employees from losses, claims, suits, actions, expenses, damages, costs (including court costs and attorneys' fees of the University's attorneys), all liability of any nature or kind arising out of or relating to the Contractor's response to this RFP or its performance or failure to perform under the contract awarded from this RFP. This clause shall survive termination for as long as necessary to protect the University.

**6.19 Insurance**

The successful Contractor shall procure and maintain, at its expense, the following minimum insurance coverages insuring all services, work activities and contractual obligations undertaken in this contract. These insurance policies must be with insurers acceptable to the University.

**COVERAGES**

Workers' Compensation  
Employer's Liability  
Commercial General Liability including operations/completed operations, products and contractual liability (including defense and investigation costs), and this contract  
Business Automobile Liability covering owned, leased, or non-owned autos

**LIMITS**

Statutory Requirements (Kentucky)  
\$500,000/\$500,000/\$500,000  
\$1,000,000 each occurrence  
(BI & PD combined) \$2,000,000 Products and Completed Operations Aggregate  
\$1,000,000 each occurrence  
(BI & PD combined)

The successful contractor agrees to furnish Certificates of Insurance for the above described coverages and limits to the University of Kentucky, Purchasing Division. The University, its trustees and employees must be added as additional insured on the Commercial General Liability policy with regard to the scope of this solicitation. Any deductibles or self-insured retention in the above-described policies must be paid and are the sole responsibility of the contractor. Coverage is to be primary and non-contributory with other coverage (if any) purchased by the University. All of these required policies must include a Waiver of Subrogation (except Workers' Compensation) in favor of the University, its trustees and employees.

#### **6.20 Method of Award**

It is the intent of the University to award a contract to the qualified offeror whose offer, conforming to the conditions and requirements of the RFP, is determined to be the most advantageous to the University, cost and other factors considered.

Notwithstanding the above, this RFP does not commit the University to award a contract from this solicitation. The University reserves the right to reject any or all offers and to waive formalities and minor irregularities in the proposal received.

#### **6.21 Reciprocal Preference**

In accordance with KRS 45A.494, a resident offeror of the Commonwealth of Kentucky shall be given a preference against a nonresident offeror. In evaluating proposals, the University will apply a reciprocal preference against an offeror submitting a proposal from a state that grants residency preference equal to the preference given by the state of the nonresident offeror. Residency and non-residency shall be defined in accordance with KRS 45A.494(2) and 45A.494(3), respectively. Any offeror claiming Kentucky residency status shall submit with its proposal a notarized affidavit affirming that it meets the criteria as set forth in the above reference statute.

#### **6.22 Reports and Auditing**

All records relating directly or indirectly to the Project which are in the possession or control of Contractor shall be made available to Owner, its designee, and any governmental authority for audit, inspection, and copying upon the request of the Owner or the Owner's Representative(s). Such records include, without limitation: all drawings, specifications, Submittals, subcontractor bids, subcontracts, the Daily Log, correspondence, the Request Log, the Submittal Log, minutes, memoranda, tape or videotape recordings, or other writings or things which document the Project, its design, and its construction.

#### **6.23 Confidentiality**

The University recognizes an offeror's possible interest in preserving selected information and data included in the proposal; however, the University must treat such information and data as required by the Kentucky Open Records Act, KRS 61.870, et seq.

Information areas which normally might be considered proprietary, and therefore confidential, shall be limited to individual personnel data, customer references, formulae and company financial audits which, if disclosed, would permit an unfair advantage to competitors. If a proposal contains information in these areas and the offeror declares them to be proprietary in nature and not available for public disclosure, the offeror shall declare in the Transmittal Letter the inclusion of proprietary information and shall noticeably label as confidential or proprietary each sheet containing such information. Proposals containing information declared by the offeror to be proprietary or confidential, either wholly or in part, outside the areas listed above may be deemed non-responsive and may be rejected.

The University's General Counsel shall review each offeror's information claimed to be confidential and, in consultation with the offeror (if needed), make a final determination as to whether or not the confidential or proprietary nature of the information or data complies with the Kentucky Open Records Act.

#### **6.24 Conflict of Interest**

This Request for Proposal and resulting Contract are subject to provisions of the Kentucky Revised Statutes regarding conflict of interest and the University of Kentucky's Ethical Principles and Code of Conduct ([www.uky.edu/Legal/ethicscode.htm](http://www.uky.edu/Legal/ethicscode.htm)). When submitting and signing a proposal, an offeror is certifying that no actual, apparent or potential conflict of interest exists between the interests of the University and the interests of the offeror. A conflict of interest (whether contractual, financial, organizational or otherwise) exists when any individual, contractor or subcontractor has a direct or indirect interest because of a financial or pecuniary interest, gift or other activities or relationships with other persons (including business, familial or household relationships) and is thus unable to render or is impeded from rendering impartial assistance or advice, has impaired objectivity in performing the proposed work or has an unfair competitive advantage.

Questions concerning this section or interpretation of this section should be directed to the University purchasing officer identified in this RFP.

#### **6.25 Payment Terms**

The University adheres to a strategic approach regarding payables management based on risk minimization, processing costs, and industry best practices. As such, suppliers and individuals doing business with the University will be paid based on the following protocol:

1. The University utilizes Payment Plus (e-payables) as its primary default form of payment. By enrolling in Payment Plus, suppliers can receive payments immediately (all invoices will be paid immediately upon confirmation of goods receipt and invoice). The process is electronic and the supplier receives real-time payment notices. Additional information regarding Payment Plus (and enrollment form) can be found at: <https://www.uky.edu/ufs/payment-plus-supplier-enrollment-form>.
2. Payments by check. Payment terms for check payments are Net-30.
3. Individuals receiving payments from the University that require ACH direct payments will only be processed under special circumstances as approved by the Controller's office. Payment terms for ACH are Net-40.

## 7.0 SCOPE OF SERVICES

### 7.1 Detailed Services Defined

The University seeks a highly qualified general contractor that possesses the knowledge, skills, and experience to oversee the modification of 4 rooms within the UK Wethington Building. The project includes but not limited to new walls, ceilings, floors, doors, and various finishes. Modifications to the HVAC, plumbing, electrical and data systems will also be needed.

The Project is located within an active and occupied Office/Research Building. The **General Contractor** will have access to the work site. Each **General Contractor** submits a proposed logistics plan and schedule for the work as part of the initial proposal.

The Scope of Services is further defined in the Drawings (Attachment B) and Specifications (Attachment A) as prepared by UK Architects and Engineers.

#### **Sheet List:**

#Cover Sheet

A-001 – ARCHITECTURAL GENERAL NOTES  
 AD-101 – DEMOLITION PLAN  
 AD-102 – CEILING DEMOLITION PLAN  
 A-101 – NEW WORK PLAN  
 A-102 – REFLECTED CEILING PLAN  
 A-201 – ELEVATIONS  
 A-501 – CASEWORK DETAILS  
 A-502 – DETAILS  
 A-601 – FINISH SCHEDULE AND FINISH LEGEND  
 A-602 – DOOR FRAME SCHEDULE  
 F-101 – FIRE PROTECTION PLAN  
 M-001 – MECHANICAL GENERAL NOTES  
 MD-101 – MECHANICAL DEMO PLAN  
 M-101 – MECHANICAL NEW WORK PLAN  
 M-400 – MECHANICAL DETAILS  
 M-500 – MECHANICAL SCHEDULES  
 IC-001 – HVAC DETAILS  
 IC-002 – HVAC CONTROLS  
 P-101 – PLUMBING DEMO / NEW WORK PLAN  
 ED-101 – ELECTRICAL DEMO PLAN  
 E-101 – ELECTRICAL POWER PLAN  
 E-102 – ELECTRICAL LIGHTING PLAN  
 E-103 – DOOR ACCESS CONTROL PLAN  
 E-400 – ELECTRICAL SCHEDULES AND DETAILS

#### **Specification Index:**

DIVISIONS 3 THROUGH 14

All technical specification information for architectural items is contained in the notes on the Drawings (Attachment B).

## DIVISION 23 – HEATING, VENTILATION AND AIR CONDITIONING (within Attachment B Drawings)

250000	General Provisions for HVAC
230900S03	Automatic Temperature Controls
233300	Air Duct Accessories

## DIVISION 26 – ELECTRICAL (Attachment A)

260000	General Requirements for Electrical
260500S01	Basic Electrical Materials and Methods (UK Standard)
260519	Low-Voltage Electrical Power Conductors and Cables
260526	Grounding and Bonding for Electrical Systems
260529	Hangers and Supports for Electrical Systems
260533	Raceways and Boxes for Electrical Systems
260533S03	Conduit and Raceway (UK Standard)
260553	Identification for Electrical Systems
262726	Wiring Devices
262726S01	Electrical Devices (UK Standard)
265110	Interior Lighting
265110S01	Interior Lighting (UK Standard)

*When a conflict between scopes and specifications is identified the more restrictive will apply.*

**7.2 Optional Services**

Not Used

**8.0 FINANCIAL OFFER SUMMARY**

Offerors are to provide a fixed price for the services offered.

**8.1 Mandatory Services (Section 7.1)**

The Offeror agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

**BASE OFFER**

FOR THE LUMP SUM OF \_\_\_\_\_ (USE WORDS)

\_\_\_\_\_ DOLLARS AND \_\_\_\_\_ CENTS.  
 (USE WORDS) (USE WORDS)

(\$ \_\_\_\_\_)

**8.2 Optional Services (Section 7.2)**

Not Used

**8.3 Alternate Pricing**

In addition to the above financial offer, the offeror may submit alternative financial proposals, however the information requested above must be supplied and will be used for proposal evaluation purposes.

**Additional Financial Commitment**

In addition to the financial offers, please propose a financial commitment to assist the University. Options may include a signing bonus, scholarships, internships, commitment to hire University Graduates or a (%) percentage rebate.

**INDEX**

**DIVISION 26 – ELECTRICAL**

260000	General Requirements for Electrical
260500	Basic Electrical Materials and Methods
260519	Low-Voltage Electrical Power Conductors and Cables
260526	Grounding and Bonding for Electrical Systems
260529	Hangers and Supports for Electrical Systems
260533	Raceways and Boxes for Electrical Systems

## SECTION 260000 – GENERAL REQUIREMENTS FOR ELECTRICAL

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions, Division-1 General Requirements & Specification Sections apply to the work specified in this and other sections of Division 26 and 28.

#### 1.2 WORK INCLUDED

- A. Furnish all materials, labor and equipment necessary to construct a complete and functional electrical system as further described in these specifications and on design drawings.
- B. This work includes, but is not limited to raceways, wiring, grounding, disconnect and wiring devices and other systems described in these specifications and on design drawings.
- C. Work under this section shall include final electrical connections to all equipment furnished under other sections of these specifications.
- D. The contractor shall furnish and install all miscellaneous equipment, material, and labor which, though not specifically called for in this specification, is necessary for a complete and satisfactory operating installation. The contractor shall leave his work in operating condition.
- E. Each Sub-Contractor shall be governed by any alternates and unit prices called for in the Form of Proposal insofar as they affect his part of work.
- F. This section (General Requirements for Electrical) applies equally to electrical, heating, ventilating, air conditioning, plumbing and fire protection.

#### 1.3 MATERIALS, EQUIPMENT AND WORKMANSHIP

- A. Materials and equipment used throughout shall be new and the best of their respective kinds. No substitutions, other than those specified, shall be used unless approved by the Architect and Engineer. All work shall be executed with speed and consistent with safety and good workmanship. Substitutions of equal equipment will be acceptable only if approved in writing by Architect and Engineer 10 days prior to bid. Substitutions for light fixtures will be submitted with photometrics to Architect and Engineer for approval 3-weeks prior to bid.



- B. All materials shall bear the UL label where such standards have been established and listed by Underwriters Laboratories, Inc.
- C. Competent workmen shall be employed on all phases of the work. Poor workmanship will be rejected and will constitute cause for removal of the individual performing the work.
- D. All material, equipment and locations of same shall at least conform with the standards of the Underwriters Laboratories, Inc. whenever applicable.
- E. Should any dispute arise as to the quality or fitness of materials, equipment or workmanship, the decision rests strictly with the Architect.
- F. All material specified as furnished by the contracting agent shall be delivered to the site. Contractor shall take receipt of the materials, store and install materials as indicated.

#### 1.4 REFERENCES

- A. Utilize the following abbreviations and definitions for discernment within the Drawings and Specifications:
  - 1. Abbreviations:
    - a. NEC National Electrical Code.
    - b. OSHA Occupational Safety and Health Act.
    - c. ANSI American National Standards Institute.
    - d. NFPA National Fire Protection Association.
    - e. ASA American Standards Association.
    - f. IEEE Institute of Electrical and Electronics Engineers.
    - g. NEMA National Electrical Manufacturers Association.
    - h. UL Underwriters Laboratories, Inc.
    - i. IES Illuminating Engineering Society.
    - j. ICEA Insulated Cable Engineers Association.
    - k. ASTM American Society of Testing Materials.
    - l. ETL Electrical Testing Laboratories, Inc.
    - m. CBM Certified Ballast Manufacturers.
    - n. EIA Electronic Industries Association.
    - o. OEM Original Equipment Manufacturer.

#### 1.5 PERMITS, CODES AND INSPECTIONS

- A. Electrical Contractor shall obtain and pay for all permits and inspections required for electrical installation.
- B. All work shall be in accordance with the latest edition of the National Electrical Code (NEC), National Fire Protection Association (NFPA), Occupational Safety and Health Administration (OSHA) and local utility company requirements.

- C. Electrical Contractor shall furnish final inspection certification to the Owner upon completion of work. Certificate shall be from local inspection authority.
- D. Where apparent contradictions are discovered between local codes, NEC, specifications and drawings, the most stringent or safest requirement will prevail. Beyond this, order of compliance shall be:
  - 1. Local Codes/Inspector
  - 2. National Electrical Code
  - 3. Specifications and Drawings

#### 1.6 DRAWINGS AND SPECIFICATIONS

- A. DO NOT SCALE DRAWINGS. The scale of drawings is approximate. Exact locations, distances, levels and other conditions shall be governed by field conditions.
- B. For the purpose of clearness and legibility, the drawings are essentially diagrammatic. Although, the size and location of the equipment is drawn to scale wherever possible.
- C. The drawings and specifications are intended to cover all work enumerated under the respective headings. The Sub-Contractors shall not take advantage of conflict or error between drawings, and specifications, but shall request clarification of such before making his proposal should this condition exist.
- D. Contractors shall obtain a set of the Architectural and Structural drawings and specifications and consult with the Architect and General Contractor as to the general construction of the building and the order and time of placement of all electrical work.
- E. The drawings accompanying these specifications determine the general design of the equipment. The exact disposition of the equipment is subject to the requirements and construction of the manufacturer's standard, but the space occupied and general design shall correspond to that shown on the plans.
- F. It is intended that materials shall be located symmetrically with architectural elements, although locations indicated by drawings may be distorted for clearness or presentation.

#### 1.7 SUBMITTALS

- A. See requirements for "Submittals" in both General Conditions and Division 1.
- B. Electrical Contractor shall refer to electrical submittal registry which is located at the end of this section. Sections identified within the registry indicate an overview of the products to be submitted. The Contractor shall reference each identified section for the specific items to be included in the submittal.
- C. Electrical Contractor shall provide submittals for review and approval on equipment and material listed in the individual technical sections of Division 26 and Division 28.

- D. Submittals shall clearly indicate electrical characteristics, physical dimensions and pertinent data which indicate that item meets all requirements specified on drawings and in technical specifications.
- E. Each Sub-Contractor shall submit to the General Contractor for review within thirty (30) days after the date of the contract, seven (7) sets of complete catalogue data and/or shop drawings for each item of material or piece of equipment. Catalog data shall include name of the manufacturer, catalog numbers, trade names, performance data, descriptive material (sufficient to identify each item), and specify performance of the products. Shop drawings shall include specified catalogue data and shall show equipment in detail, arrangement and disposition for this particular project design.
- F. The Architect and/or Engineer checking and reviewing of the Contractor's and Sub-Contractor's drawings and/or equipment details does not relieve the Contractor or Sub-Contractors from responsibility for errors, omissions or equipment furnished in accordance with such checked or reviewed drawings. Where such errors or omissions are later discovered, they shall be made good by the respective Sub-Contractor irrespective of any review by the Architect or Engineer.

#### 1.8 SITE EXAMINATION

- A. Each Contractor shall, before submitting a proposal, visit and examine the site to satisfy themselves as to materials and scope of the construction, any difficulty attending the performance of the work, storage of material, access to any and all areas, etc.
- B. The submission of a proposal will be construed as evidence that such an examination has been made. Claims made subsequent to the time of submission of the proposal for labor, equipment and material required for difficulties encountered, which could have been foreseen had an examination been made, will not be recognized.

#### 1.9 QUALIFICATIONS

- A. Contractors must have five (5) years of minimum experience, has a satisfactory work resume with comparable projects listed, has a sound financial basis and is technically competent.
- B. Equipment Manufacturers must have five (5) years of successful experience, be technically competent, and be industrial financially stable.
- C. Owner reserves the right to review and determine if the Contractors and Manufacturers meet the above categories to his satisfaction. The Owner has the authority to reject any equipment and bids if the above standards are not met.

#### 1.10 DEBRIS, CUTTING AND PATCHING

- A. Electrical Contractor shall be responsible for removing any dirt, boxes, paper or other debris present as a result of his work.

- B. Work areas shall be maintained in a clean and orderly condition at all times.
- C. Electrical Contractor shall be responsible for all cutting and patching required for his work. All work shall be by skilled Craftsmen.
- D. No more cutting shall be done than is absolutely necessary. Cutting of a structural member or exposed surface of concrete will not be permitted without written approval of the Architect and Structural Engineer.
- E. Conduit openings in floor slabs shall be cut with core drill. Edges of trenches or openings in slabs shall be scribe cut with masonry saw.
- F. Where necessary to remove exterior walks, paving or lawns, same shall be returned to original condition.
- G. Each Sub-Contractor will be required to notify other trades in due time where he will require openings or chases in new masonry. Each Sub-Contractor shall also set all concrete inserts and sleeves for his work in new construction. Failing to do this, he shall cut openings for his work and patch as required at his own expense.
- H. All cutting and patching shall be done in a neat and workmanlike manner by men skilled in the various trades and with written permission from the Architect.

#### 1.13 WARRANTY

- A. The Contractor shall warrant the systems, equipment, and apparatus to be properly balanced, free from any defects in material and workmanship for a period of one (1) year from date of acceptance. Where warranties for additional time are stated herein, the extended term shall apply.
- B. The date of acceptance shall be the date of the voucher for final payment.
- C. The Contractor shall replace defective parts or equipment promptly at his own expense.

#### 1.14 DELIVERY, STORAGE AND HANDLING

- A. Deliver, store, protect and handle products to the project site properly identified with manufacturer's identification, model number, types, grades, compliance labels, and other information needed for identification.
- B. Protect products from weather, construction traffic, dirt, water chemicals and mechanical damage by storing in original packaging.

### 1.15 MAINTENANCE MANUALS

- A. Prepare maintenance manuals in accordance with Division 1. In addition to the requirements specified in Division 1, include the following information for equipment items:
  - 1. Description of function, normal operating characteristics and limitations, performance curves, engineering data and tests, and complete nomenclature and commercial numbers of replacement parts.
  - 2. Manufacturer's printed operating procedures to include start-up, break-in, and routine and normal operating instructions; regulation, control, stopping, shut-down, and emergency instructions; and summer and winter operating instructions.
  - 3. Maintenance procedures for routine preventive maintenance and troubleshooting; disassembly, repair, and reassembly; aligning and adjusting instructions.
  - 4. Servicing instructions and lubrication charts and schedules.

### 1.16 AS-BUILT DRAWINGS

- A. Maintain an accurate set of "as built" drawings and record any deviations from contract drawings. Submit two (2) sets of drawings (marked to show all deviations) upon completion of work to General Contractor.
- B. As-built drawings shall show all changes, additions, deletions and deviations from contract drawings noted plainly thereon. Special emphasis is placed on recording the exact location of all underground utilities by offset distances to building corners, walls, curbs, etc.
- C. A set of prints shall be maintained in the project office at the site for use in keeping a daily log of the work as it progresses. This daily log shall be transferred to the drawings in order that the information might be permanently recorded.

## PART 2 PRODUCTS

### 2.1 MATERIALS

- A. All materials and equipment installed shall be new and free of defects and shall be the product of a reputable manufacturer and subject to approval.
- B. Applicable equipment and materials shall be listed by Underwriters Laboratories and Manufactured in accordance with ASME, NEMA, ANSI and IEEE standards, and as approved by local authorities having jurisdiction as mentioned in Division 1.
- C. If products and materials are specified or indicated on the Drawings for a specific item or system, use those products or materials. If products and materials are not listed in either of the above, use first class products and materials, subject to approval of Shop Drawings where Shop Drawings are required or as approved in writing where Shop Drawings are not required.

## 2.2 MISCELLANEOUS STEEL

- A. Provide all necessary miscellaneous steel as required for mounting, hanging or otherwise supporting panelboards, wall-mounted transformers, light fixtures, conduit, etc. installed by Electrical Contractor.
- B. Supports shall be suitably fastened to structural members as approved by Architect and Structural Engineer.

## 2.3 IDENTIFICATION, NAMEPLATES AND LABELING

- A. Provide typewritten circuit directories in panels with clear plastic protection shields and mounted in card holders. Indicate circuit number, devices or equipment being serviced. Final directories shall reflect final installation, reflecting all revisions made during construction and shall reflect final "as-built" conditions.
- B. Label all panels, starters, and switchboards with panel designation in one-half inch (1/2") letters and voltage in one-quarter inch (1/4") letters. Use engraved lamacoid plates with black background and white letters. Fasten plate above door on panel trim by using aluminum screws. Refer to Section 260553 for additional requirements.

## PART 3 EXECUTION

### 3.1 ROUGH-IN

- A. Verify final locations for rough-ins with field measurements and with the shop drawing requirements of the actual equipment to be connected.
- B. Contractor shall perform walk-through inspection with Owner's Representative prior to commencing work. Locations of all data and voice outlets and power receptacles shall be verified and documented. A complete set of drawings shall be used to mark any revisions and shall be signed by the Owner and the Contractor and kept on site.

### 3.2 ELECTRICAL INSTALLATION

- A. Follow manufacturer's instructions for installing, connecting, and adjusting all equipment. Provide a copy of such instructions at the equipment during any work on the equipment. Provide all special supports, connections, wiring, accessories, etc.
- B. General: Unless otherwise indicated, hook up all equipment requiring electrical services, whether such equipment is furnished under this Section or furnished by others. Comply with the following requirements:
  - 1. Work specified under this Section may be affected by work and materials specified under other Sections of these Specifications. The Contractor shall be re-

- sponsible for coordination of work described under this Section with the other Sections.
2. Verify all dimensions by field measurements.
  3. Arrange for chases, slots, and openings in other building components during progress of construction, to allow for electrical installations.
  4. Coordinate the installation of required supporting devices and sleeves to be set in poured-in-place concrete and other structural components, as they are constructed.
  5. Sequence, coordinate, and integrate installations of electrical materials and equipment for efficient flow of the Work. Give particular attention to large equipment requiring positioning prior to closing in the building.
  6. Where mounting heights are not detailed or dimensioned, install systems, materials, and equipment to provide the maximum headroom possible.
  7. Coordinate connection of electrical systems with exterior underground and overhead utilities and services. Comply with requirements of governing regulations, franchised service companies, and controlling agencies. Provide required connection for each service.
  8. Install systems, materials, and equipment to conform with approved submittal data, including coordination drawings, to greatest extent possible. Conform to arrangements indicated by the Contract Documents, recognizing that portions of the Work are shown only in diagrammatic form. Where coordination requirements conflict with individual system requirements, refer conflict to the Engineer/Owner.
  9. Install systems, materials, and equipment level and plumb, parallel and perpendicular to other building systems and components, where installed exposed in finished spaces.
  10. Install electrical equipment to facilitate servicing, maintenance, and repair or replacement of equipment components. As much as practical, connect equipment for ease of disconnecting, with minimum of interference with other installations.
  11. Install systems, materials, and equipment giving right-of-way priority to systems required to be installed at a specified slope.

### 3.3 WORKMANSHIP, COOPERATION AND COORDINATION

- A. All work under this section shall be completed by Workmen skilled in their respective trades.
- B. Workmen shall be thoroughly trained and familiar with Manufacturer's recommended methods of installation.
- C. Any installation which does not present an appearance of the best trade practices shall be repaired, removed or replaced as directed by Owner's Representative.
- D. Electrical Contractor shall cooperate with other trades to obtain most practical arrangement of work.
- E. Electrical Contractor shall coordinate installation with other trades to minimize interferences. "First to install" will not be justification for interferences.

### 3.4 CLEANING AND TESTING

- A. Clean all equipment, panels, disconnects, light fixtures, device outlets and plates, raceway systems and other electrical components after construction completion and prior to Owner's acceptance.
- B. Test complete electrical system and all components to assure proper operation. Furnish to Architect/Engineer any test results required to prove proper system operation.

### 3.5 EQUIPMENT CONNECTIONS

- A. Electrical Contractor shall connect all power wiring to any equipment furnished by Others, unless indicated otherwise.
- B. Electrical Contractor shall furnish all materials (i.e. disconnect switches, junction boxes, receptacles, cords, plugs, etc.) and labor necessary to complete final connections to all equipment.
- C. Electrical Contractor shall be responsible for making final connection to all Owner furnished equipment indicated on plans. Contractor shall check list from Owner with drawings and inform Owner of any discrepancies.
- D. Electrical Contractor shall obtain shop drawings and/or cut sheets for all equipment supplied by others which requires electrical connections prior to rough-in. Electrical Contractor shall confirm that electrical services provided for equipment on drawings are correct for equipment to be installed. Inform Engineer of any discrepancies. Any work installed which does not match the requirements of the equipment to be installed shall be removed at the expense of the Electrical Contractor.

### 3.6 ELECTRICAL FOR HEATING, VENTILATING AND AIR CONDITIONING EQUIPMENT

- A. The Mechanical Contractor shall furnish and install all air conditioning equipment, air handling units, exhaust fans, etc. The Mechanical Contractor shall provide starters for all HVAC equipment requiring starters, unless otherwise indicated. The Electrical Contractor shall mount and connect all starters and shall furnish all branch circuit wiring, motor disconnects, labor and final electrical connections as required for proper operation. Mechanical Contractor shall furnish and install all controls and control wiring, unless otherwise indicated on drawings.

### 3.7 FIRESTOPPING

- A. All penetrations of fire and smoke rated walls by electrical conduit shall be properly sealed to maintain rating of the partition

**END OF SECTION**



**SECTION 260500S01 – COMMON WORK RESULTS FOR ELECTRICAL**  
**Basic Electrical Materials and Methods**

1. BASIC ELECTRICAL MATERIALS

- A. All conduits and raceway must be 3/4" or larger. Exposed raceway in finished areas shall be in 700 or larger wiremold. Exception: runs to individual devices 10' or less, 1/2" may be used.
- B. All wiring shall be 98% conductivity copper.
- C. All buss and buss duct conductors shall be 98% conductivity tin plated copper.
- D. Aluminum or aluminum alloy connectors shall not be used on copper.
- E. All wiring shall have THHN insulation minimum for installation in conduit.
- F. All wiring devices shall be specification grade.
- G. Wire size, #12 AWG minimum for power circuits.
- H. Conductors #10 AWG and larger shall be stranded copper.
- I. All driven ground rods shall be 5/8" X 8'-0" copperweld.
- J. All panelboards shall have both neutral and ground bus separate. All panelboards shall use bolt-on breakers, only.
- K. No plastic anchors are to be used to support electrical conduit and/or equipment. Use metallic expansion type anchors. Do not use lead anchors. No explosive type install anchors shall be used.
- L. All utility markers required inside buildings, structures, and facilities to identify exposed and concealed utilities, including electric, shall be provided in accordance with specification 02600D01.
- M. All electrical equipment shall be UL listed for the application in which it is used.
- N. All equipment and devices provided to meet this specification shall meet all applicable FCC requirements and restrictions.
- O. Do not provide any devices which contain mercury unless there is not a mercury free device on the market which will perform the same function.
- P. Rigid Conduit  
Rigid conduit shall be standard weight, mild steel pipe. The conduit shall receive a protective zinc coating both inside and outside by means of hot-dip galvanizing. Threads shall not have any coating which will reduce the conductivity of the joint. Couplings, bends, elbows, fittings, etc., shall be subject to the same requirements as for straight lengths. All conduit and fittings shall meet UL-8 and be labeled accordingly. Rigid conduit shall be delivered with plastic protectors on the threads.
- Q. Electrical Metallic Tubing (EMT)  
Electrical metallic tubing (EMT) shall be cold rolled tubing with a zinc coating on the outside and zinc coating or a protective enamel coating on the inside. All EMT fittings shall be the steel compression type and meet the same requirements as EMT. All entries into boxes, cabinets, etc., shall have insulated throat and compression ring type connectors conforming to UL-514. All EMT shall meet UL-797 and be labeled accordingly.

R. Conduit Colors

Fire Alarm – Red  
Communications – Blue  
Access Control - Purple

S. Surface Metal Raceway

Metal raceway shall be two-piece type, base mounted with snap-on cover as manufactured by wiremold or equal. Raceway installation shall be in accordance with manufacturer's instructions using adapters and fittings specifically designed and manufactured for the raceway used.

T. Flexible Conduit

Flexible metallic conduit shall be constructed from flexibly or spirally wound electro-galvanized steel. Connections shall be by means of galvanized, malleable iron squeeze type fittings, or tomic twist-in type in sizes not exceeding 3/4" size. Liquid tight flexible metallic conduit shall be light gray in color. It shall have seal tight fittings and shall be equal to American Brass "Sealtite" Type UA.

U. Plastic Conduit

Plastic conduit shall be high impact, high grade, self extinguishing polyvinyl chloride (PVC) schedule 40, 90 deg. C, U.L. rated. Material must have tensile strength of 7,000 psi at 73.4 deg. F., flexural strength of 11,000 psi and compressive strength of 8,000 psi. Conduit fitting and elbows shall have the same requirements as the conduit.  
Exception: Use schedule 80 PVC conduit when required by codes.

2. BASIC ELECTRICAL METHODS

A. General

1. All wiring shall be in 3/4" or larger conduit, wireway or raceway.
2. All conduits shall be concealed except in University of Kentucky designated mechanical rooms or unless otherwise specified and shown on drawings approved in writing by the UK Project Manager. Conduits which are not concealed must be surface metal raceway unless otherwise noted in the written exception.
3. Firestop all penetrations in accordance with the current edition of the National Electric Code.
4. All conduit, wiremold and junction boxes must be painted to match existing surface except in mechanical rooms.
5. During construction, cover all equipment subject to mechanical damage or contamination in any way.
6. All metering is to be included in the contract unless provided by local utility company. Each building is to be sub-metered individually. All metering to meet UK Standard 262713.
7. Standard mounting height of devices:

Receptacles	18" A.F.F.
Light Switches	48" A.F.F.
Fire Alarm Manual Stations	48" A.F.F.

Fire Alarm Horns	84" A.F.F.
Thermostats	53" A.F.F.

8. All electrical panels shall be clearly labeled as to what circuit, electrical outlet, and/or room that each breaker feeds.
9. Corridor outlets shall be provided at a maximum 65 feet spacing for floor machines. The 120-volt receptacles shall each be individually protected by a 20 ampere breaker and GFI receptacle.
10. All Fire Alarm, Security Alarm, Communications Equipment, Elevator Controllers, Life Safety (including emergency lights, exit lights and combination emergency\exit lights), Handicap Access, Mechanical and Electrical Room lights and receptacles, and other similar systems shall be supplied by emergency generator distribution panels. Note: Due to battery maintenance cost, do not provide battery backed up emergency and exit lighting on emergency generator power unless the University requests this redundancy in specified areas.
11. Install mechanical identification to properly identify every system and its components.
12. All conduits, duct and raceway shall be installed in accordance with UK Standard **260533** and **260533S03**.
13. In the communications cable tray, no AC is allowed of any voltage. Only ethernet, fiber, access control cables are in cable tray.
14. Low Voltage Wiring is any voltage 50 volts or less.
15. All conduits shall be attached to the building structure.
16. Low voltage shall be run in conduit. No more than 18" of exposed wire, outside of conduit, before connecting to a device. All conduit to have bushing installed on end to prevent wire contact with sharp edge.
17. Wire run in HVAC Plenums are to be plenum rated.

**B. Grounding**

1. A separate equipment ground wire shall be run continuous to all equipment and receptacles. The University does not recognize or accept the conduit ground as an equipment ground. Any ground required must be a properly sized wire or wires (insulated or uninsulated) from the buildings single point ground bus and running through all distribution panelboards and connecting to the equipment to be grounded.
2. All buildings shall have ground rods and ground planes to meet the requirements of the NEC and also the grounding requirements of equipment within the building. All main ground points shall be meggered. If more than 10 OHMS, additional ground rods shall be driven. Additional ground rods shall not be less than 6 ft. apart. If more than 25 OHMS, special care shall be used to obtain less than 10 OHMS.
3. Main service entrance conduit shall have grounding locknuts on one end. Meter shall be grounded to main service disconnect by a bare copper ground wire, sized to NEC.

4. Main service neutral shall be grounded at only one point (the main service disconnect) and that ground shall extend from the main water service entrance point before main water valve.

C. Motors

1. This standard applies to all general duty motors provided, even those specified in all other divisions such as Div 15 where motors are provided with pumps, air handling units and similar equipment.
2. Provide power factor correction capacitors on induction motors of 10 H. P. or above to correct power factor to .91 or more. Provide a disconnect switch for each capacitor bank.
3. All 3 phase electric motors, (5 Hp. and larger), shall be protected against single phasing.
4. Efficiencies specified shall be according to US efficiency test protocol which is IEEE 112 Test Method B.
5. Efficiencies shall be stamped on the nameplate of the motor.
6. All general purpose motors shall be NEMA Premium™ efficiency as noted in tables 1 and 2 as follows:

<b>Table 1</b>						
<b>Nominal Efficiencies For NEMA Premium™ Induction Motors Rated 600 Volts Or Less (Random Wound)</b>						
	<b>Open Drip-Proof</b>			<b>Totally Enclosed Fan-Cooled</b>		
<b>HP</b>	<b>6-pole</b>	<b>4-pole</b>	<b>2-pole</b>	<b>6-pole</b>	<b>4-pole</b>	<b>2-pole</b>
1	82.5	85.5	77	82.5	85.5	77
1.5	86.5	86.5	84	87.5	86.5	84
2	87.5	86.5	85.5	88.5	86.5	85.5
3	88.5	89.5	85.5	89.5	89.5	86.5
5	89.5	89.5	86.5	89.5	89.5	88.5
7.5	90.2	91	88.5	91	91.7	89.5
10	91.7	91.7	89.5	91	91.7	90.2
15	91.7	93	90.2	91.7	92.4	91
20	92.4	93	91	91.7	93	91
25	93	93.6	91.7	93	93.6	91.7
30	93.6	94.1	91.7	93	93.6	91.7
40	94.1	94.1	92.4	94.1	94.1	92.4
50	94.1	94.5	93	94.1	94.5	93
60	94.5	95	93.6	94.5	95	93.6
75	94.5	95	93.6	94.5	95.4	93.6
100	95	95.4	93.6	95	95.4	94.1
125	95	95.4	94.1	95	95.4	95
150	95.4	95.8	94.1	95.8	95.8	95
200	95.4	95.8	95	95.8	96.2	95.4
250	95.4	95.8	95	95.8	96.2	95.8
300	95.4	95.8	95.4	95.8	96.2	95.8
350	95.4	95.8	95.4	95.8	96.2	95.8
400	95.8	95.8	95.8	95.8	96.2	95.8
450	96.2	96.2	95.8	95.8	96.2	95.8
500	96.2	96.2	95.8	95.8	96.2	95.8

<b>Table 2</b>						
<b>Nominal Efficiencies For NEMA Premium™ Induction Motors Rated Medium Volts 5kV or Less (Form Wound)</b>						
<b>HP</b>	<b>Open Drip-Proof</b>			<b>Totally Enclosed Fan-Cooled</b>		
	<b>6-pole</b>	<b>4-pole</b>	<b>2-pole</b>	<b>6-pole</b>	<b>4-pole</b>	<b>2-pole</b>
250	95	95	94.5	95	95	95
300	95	95	94.5	95	95	95
350	95	95	94.5	95	95	95
400	95	95	94.5	95	95	95
450	95	95	94.5	95	95	95
500	95	95	94.5	95	95	95

**D. Starter Disconnects**

Combination starter/disconnects must be equipped with a factory disconnect micro switch and this switch must be wired into control circuit to deenergize the starter before disconnect opens.

**E. Computer and Computer Room Circuits**

1. Power supply for computer systems shall be provided with an isolated ground wire back to the service entrance single point isolated grounding grid buss.
2. Main feeder routing for computer and telephone cabling shall be inside hinged wireway whenever possible, branching off to individual computer terminations with conduit. Wireway shall be sized for 50% future growth. Minimum wireway size shall be 6".

**F. Communications**

1. Communications electrical shall meet University of Kentucky Standards **Division 27**.
2. Clocks and bells shall be self correcting compatible with the campus Primex Wireless system.
3. All television and telecable conduits shall have a home run to the floor communications panel. Outlets looped between rooms are not acceptable.

**G. Security Systems**

Provide conduit from at least one or more entrance doors on each building wall to a common 6"x6"x4" junction box mounted above the door. Door frame must include a small J-Box on each side of frame for lock/unlock and hinge feed thru and a small J-Box on top of frame for magnetic switch contacts. Provide a minimum of 1" conduit from each door 6"x6"x4" J-Box to the building facility management system or the designated access control panel for the future addition of access control.

**END OF SECTION**

## SECTION 260519 - LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS & CABLES

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. This Section includes the following:
  1. Building wires and cables rated 600 V or less.
  2. Connectors, splices, and terminations rated 600 V or less.
  3. Sleeves and sleeve seals for cables.

#### 1.3 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Field quality-control test reports.

#### 1.4 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Comply with NFPA 70.

### PART 2 - PRODUCTS

#### 2.1 CONDUCTORS AND CABLES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  1. Alcan Products Corporation; Alcan Cable Division.
  2. American Insulated Wire Corp.; a Leviton Company.
  3. General Cable Corporation.
  4. Senator Wire & Cable Company.
  5. Southwire Company.

- B. Copper Conductors: Comply with NEMA WC 70.
- C. Conductor Insulation: Comply with NEMA WC 70/ICEA S-95-658 for Type THHN-2-THWN-2 and Type XHHW-2.
- D. Multiconductor Cable: Comply with NEMA WC 70/ICEA S-95-658 for armored cable, Type AC.

## 2.2 CONNECTORS AND SPLICES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. AFC Cable Systems, Inc.
  - 2. Hubbell Power Systems, Inc.
  - 3. O-Z/Gedney; EGS Electrical Group LLC.
  - 4. 3M; Electrical Products Division.
  - 5. Tyco Electronics Corp.
  - 6. Thomas & Betts
- B. Description: Factory-fabricated connectors and splices of size, ampacity rating, material, type, and class for application and service indicated.

## PART 3 - EXECUTION

### 3.1 CONDUCTOR MATERIAL APPLICATIONS

- A. Feeders: Copper. Solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.
- B. Branch Circuits: Copper. Solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.

### 3.2 CONDUCTOR INSULATION AND MULTICONDUCTOR CABLE APPLICATIONS AND WIRING METHODS

- A. Service Entrance: Type XHHW-2, single conductors in raceway.
- B. Feeders Concealed in Ceilings, Walls, Partitions, and Crawlspace: Type THHN-2-THWN-2, single conductors in raceway.
- C. Feeders Concealed in Concrete, below Slabs-on-Grade, and Underground: Type THHN-2-THWN-2, single conductors in raceway.
- D. Branch Circuits Concealed in Ceilings, Walls, and Partitions: Type THHN-2-THWN-2, single conductors in raceway.
- E. Non-emergency, non-patient care area, 20 Amp branch circuit wiring: Metal-Clad, Type MC cable

- F. Non-emergency, patient care area, 20 Amp branch circuit wiring: HCFC Type Health Care Facility cable.
- G. Emergency Circuits: Type THHN-2-THWN-2, single conductors in raceway (separate from normal power circuits).
- H. Branch Circuits Concealed in Concrete, below Slabs-on-Grade, and Underground: Type THHN-2-THWN-2, single conductors in raceway.
- I. Class 1 Control Circuits: Type THHN-THWN, in raceway.
- J. Class 2 Control Circuits: Type THHN-THWN, in raceway.

### 3.3 INSTALLATION OF CONDUCTORS AND CABLES

- A. Conceal cables in finished walls, ceilings, and floors, unless otherwise indicated.
- B. Use manufacturer-approved pulling compound or lubricant where necessary; compound used must not deteriorate conductor or insulation. Do not exceed manufacturer's recommended maximum pulling tensions and sidewall pressure values.
- C. Use pulling means, including fish tape, cable, rope, and basket-weave wire/cable grips, that will not damage cables or raceway.
- D. Install exposed cables parallel and perpendicular to surfaces of exposed structural members and follow surface contours where possible.
- E. Install cables (type MC cable) parallel and perpendicular to surfaces of structural members and follow surface contours where possible. Support cable every 4'-0" on center.
- F. Support cables according to Division 26 Section "Hangers and Supports for Electrical Systems."
- G. Identify and color-code conductors and cables according to Division 26 Section "Identification for Electrical Systems."

### 3.4 CONNECTIONS

- A. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.
- B. Make splices and taps that are compatible with conductor material and that possess equivalent or better mechanical strength and insulation ratings than un-spliced conductors.
  - 1. Use oxide inhibitor in each splice and tap conductor for aluminum conductors.
- C. Wiring at Outlets: Install conductor at each outlet, with at least 6 inches of slack.



3.5 SLEEVE AND SLEEVE-SEAL INSTALLATION FOR ELECTRICAL PENETRATIONS

- A. Install sleeves and sleeve seals at penetrations of exterior floor and wall assemblies.

3.6 FIRESTOPPING

- A. Apply firestopping to electrical penetrations of fire-rated floor and wall assemblies to restore original fire-resistance rating.

**END OF SECTION**

## **SECTION 260526 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### **1.2 SUMMARY**

- A. Section Includes: Grounding systems and equipment.
- B. Section includes grounding systems and equipment, plus the following special applications:
  - 1. Ground bonding common.

#### **1.3 SUBMITTALS**

- A. Product Data: For each type of product indicated.
- B. Informational Submittals: Plans showing dimensioned as-built locations of grounding features specified in "Field Quality Control" Article, including the following:
  - 1. Grounding arrangements and connections for separately derived systems.
  - 2. Grounding for sensitive electronic equipment.
- C. Field quality-control reports.

#### **1.4 QUALITY ASSURANCE**

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. Comply with UL 467 for grounding and bonding materials and equipment.

### **PART 2 - PRODUCTS**

#### **2.1 CONDUCTORS**

- A. Insulated Conductors: Copper wire or cable insulated for 600 V unless otherwise required by applicable Code or authorities having jurisdiction.
- B. Bare Copper Conductors:
  - 1. Solid Conductors: ASTM B 3.
  - 2. Stranded Conductors: ASTM B 8.

3. Bonding Cable: 28 kcmil, 14 strands of No. 17 AWG conductor, 1/4 inch in diameter.
  4. Bonding Conductor: No. 4 or No. 6 AWG, stranded conductor.
  5. Bonding Jumper: Copper tape, braided conductors terminated with copper ferrules; 1-5/8 inches wide and 1/16 inch thick.
- C. Grounding Bus: Predrilled rectangular bars of annealed copper, 1/4 by 4 inches in cross section, with 9/32-inch holes spaced 1-1/8 inches apart. Stand-off insulators for mounting shall comply with UL 891 for use in switchboards, 600 V. Lexan or PVC, impulse tested at 5000 V.

## 2.2 CONNECTORS

- A. Listed and labeled by an NRTL acceptable to authorities having jurisdiction for applications in which used and for specific types, sizes, and combinations of conductors and other items connected.
- B. Bolted Connectors for Conductors and Pipes: Copper or copper alloy, pressure type with at least two bolts.
  1. Pipe Connectors: Clamp type, sized for pipe.
- C. Bus-bar Connectors: Mechanical type, cast silicon bronze, solderless compression-type wire terminals, and long-barrel, two-bolt connection to ground bus bar.
- D. Welded Connectors: Exothermic-welding kits of types recommended by kit manufacturer for materials being joined and installation conditions.

## PART 3 - EXECUTION

### 3.1 APPLICATIONS

- A. Conductors: Install solid conductor for No. 8 AWG and smaller, and stranded conductors for No. 6 AWG and larger unless otherwise indicated.
- B. Underground Grounding Conductors: Install bare tinned-copper conductor, No. 2/0 AWG minimum.
  1. Bury at least 24 inches below grade.
- C. Isolated Grounding Conductors: Green-colored insulation with continuous yellow stripe. On feeders with isolated ground, identify grounding conductor where visible to normal inspection, with alternating bands of green and yellow tape, with at least three bands of green and two bands of yellow.
- D. Grounding Bus: Install in electrical and telephone equipment rooms, in rooms housing service equipment, and elsewhere as indicated.
  1. Install bus on insulated spacers 2 inches minimum from wall, 6 inches above finished floor unless otherwise indicated.
- E. Conductor Terminations and Connections:
  1. Pipe and Equipment Grounding Conductor Terminations: Bolted connectors.

2. Underground Connections: Welded connectors except at test wells and as otherwise indicated.
3. Connections to Ground Rods at Test Wells: Bolted connectors.
4. Connections to Structural Steel: Welded connectors.

### 3.2 EQUIPMENT GROUNDING

- A. Install insulated equipment grounding conductors with all feeders and branch circuits.
- B. Install insulated equipment grounding conductors with the following items, in addition to those required by NFPA 70:
  1. Feeders and branch circuits.
  2. Lighting circuits.
  3. Receptacle circuits.
  4. Single-phase motor and appliance branch circuits.
  5. Three-phase motor and appliance branch circuits.
  6. Flexible raceway runs.
  7. Armored and metal-clad cable runs.
  8. Computer and Rack-Mounted Electronic Equipment Circuits: Install insulated equipment grounding conductor in branch-circuit runs from equipment-area power panels and power-distribution units.
- C. Air-Duct Equipment Circuits: Install insulated equipment grounding conductor to duct-mounted electrical devices operating at 120 V and more, including air cleaners, heaters, dampers, humidifiers, and other duct electrical equipment. Bond conductor to each unit and to air duct and connected metallic piping.
- D. Water Heater, Heat-Tracing, and Anti-frost Heating Cables: Install a separate insulated equipment grounding conductor to each electric water heater and heat-tracing cable. Bond conductor to heater units, piping, connected equipment, and components.
- E. Isolated Grounding Receptacle Circuits: Install an insulated equipment grounding conductor connected to the receptacle grounding terminal. Isolate conductor from raceway and from panelboard grounding terminals. Terminate at equipment grounding conductor terminal of the applicable derived system or service unless otherwise indicated.
- F. Isolated Equipment Enclosure Circuits: For designated equipment supplied by a branch circuit or feeder, isolate equipment enclosure from supply circuit raceway with a nonmetallic raceway fitting listed for the purpose. Install fitting where raceway enters enclosure, and install a separate insulated equipment grounding conductor. Isolate conductor from raceway and from panelboard grounding terminals. Terminate at equipment grounding conductor terminal of the applicable derived system or service unless otherwise indicated.

### 3.3 INSTALLATION

- A. Grounding Conductors: Route along shortest and straightest paths possible unless otherwise indicated or required by Code. Avoid obstructing access or placing conductors where they may be subjected to strain, impact, or damage.

- B. All electrical services shall be grounded. Service shall be bonded to one of the following:
  - 1. 1) metal underground water pipe in direct contact with the earth;
  - 2. 2) metal frame of the building or structure
  - 3. 3) concrete-encased electrode
  - 4. 4) ground ring encircling the building or structure
  - 5. 5) rod and pipe electrodes
- C. Ground Rods: Drive rods until tops are 2 inches below finished floor or final grade unless otherwise indicated.
  - 1. Interconnect ground rods with grounding electrode conductor below grade and as otherwise indicated. Make connections without exposing steel or damaging coating if any.
  - 2. For grounding electrode system, install at least three rods spaced at least one-rod length from each other and located at least the same distance from other grounding electrodes, and connect to the service grounding electrode conductor.
- D. Bonding Straps and Jumpers: Install in locations accessible for inspection and maintenance except where routed through short lengths of conduit.
  - 1. Bonding to Structure: Bond straps directly to basic structure, taking care not to penetrate any adjacent parts.
  - 2. Bonding to Equipment Mounted on Vibration Isolation Hangers and Supports: Install bonding so vibration is not transmitted to rigidly mounted equipment.
  - 3. Use exothermic-welded connectors for outdoor locations; if a disconnect-type connection is required, use a bolted clamp.
- E. Grounding and Bonding for Piping:
  - 1. Metal Water Service Pipe: Install insulated copper grounding conductors, in conduit, from building's main service equipment, or grounding bus, to main metal water service entrances to building. Connect grounding conductors to main metal water service pipes; use a bolted clamp connector or bolt a lug-type connector to a pipe flange by using one of the lug bolts of the flange. Where a dielectric main water fitting is installed, connect grounding conductor on street side of fitting. Bond metal grounding conductor conduit or sleeve to conductor at each end.
  - 2. Water Meter Piping: Use braided-type bonding jumpers to electrically bypass water meters. Connect to pipe with a bolted connector.
  - 3. Bond each aboveground portion of gas piping system downstream from equipment shutoff valve.
- F. Bonding Interior Metal Ducts: Bond metal air ducts to equipment grounding conductors of associated fans, blowers, electric heaters, and air cleaners. Install bonding jumper to bond across flexible duct connections to achieve continuity.

### 3.4 LABELING

- A. Comply with requirements in Division 26 Section "Identification for Electrical Systems" Article for instruction signs. The label or its text shall be green.
- B. Install labels at the telecommunications bonding conductor and grounding equalizer and at the grounding electrode conductor where exposed.

1. Label Text: "If this connector or cable is loose or if it must be removed for any reason, notify the facility manager."

### 3.5 FIELD QUALITY CONTROL

- A. Perform the following tests and inspections and prepare test reports.
  1. After installing grounding system but before permanent electrical circuits have been energized, test for compliance with requirements.
  2. Inspect physical and mechanical condition. Verify tightness of accessible, bolted, electrical connections with a calibrated torque wrench according to manufacturer's written instructions.
  3. Test completed grounding system at each location where a maximum ground-resistance level is specified, at service disconnect enclosure grounding terminal, at ground test wells, and at individual ground rods. Make tests at ground rods before any conductors are connected.
    - a. Measure ground resistance no fewer than two full days after last trace of precipitation and without soil being moistened by any means other than natural drainage or seepage and without chemical treatment or other artificial means of reducing natural ground resistance.
    - b. Perform tests by fall-of-potential method according to IEEE 81.
- B. Grounding system will be considered defective if it does not pass tests and inspections.
- C. Report measured ground resistances that exceed the following values:
  1. Power and Lighting Equipment or System with Capacity of 500 kVA and Less: 10 ohms.
  2. Power and Lighting Equipment or System with Capacity of 500 to 1000 kVA: 5 ohms.
  3. Power and Lighting Equipment or System with Capacity More Than 1000 kVA: 3 ohms.
  4. Power Distribution Units or Panelboards Serving Electronic Equipment: 3 ohm(s).
- D. Excessive Ground Resistance: If resistance to ground exceeds specified values, notify Architect promptly and include recommendations to reduce ground resistance.

**END OF SECTION**

## SECTION 260529 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. This Section includes the following:
  - 1. Hangers and supports for electrical equipment and systems.

#### 1.3 PERFORMANCE REQUIREMENTS

- A. Design equipment supports capable of supporting combined operating weight of supported equipment and connected systems and components.
- B. Rated Strength: Adequate in tension, shear, and pullout force to resist maximum loads calculated or imposed for this Project, with a minimum structural safety factor of five times the applied force.

#### 1.4 SUBMITTALS

- A. Product Data: For the following:
  - 1. Steel slotted support systems.
  - 2. Nonmetallic slotted support systems.
- B. Shop Drawings: Show fabrication and installation details and include calculations for the following:
  - 1. Trapeze hangers. Include Product Data for components.
  - 2. Steel slotted channel systems. Include Product Data for components.
  - 3. Equipment supports.

## PART 2 - PRODUCTS

### 2.1 SUPPORT, ANCHORAGE, AND ATTACHMENT COMPONENTS

- A. Steel Slotted Support Systems: Comply with MFMA-4, factory-fabricated components for field assembly.
  - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a. Allied Tube & Conduit.
    - b. Cooper B-Line, Inc.; a division of Cooper Industries.
    - c. ERICO International Corporation.
    - d. GS Metals Corp.
    - e. Thomas & Betts Corporation.
    - f. Unistrut; Tyco International, Ltd.
    - g. Wesanco, Inc.
  - 2. Metallic Coatings: Hot-dip galvanized after fabrication and applied according to MFMA-4.
  - 3. Nonmetallic Coatings: Manufacturer's standard PVC, polyurethane, or polyester coating applied according to MFMA-4.
  - 4. Painted Coatings: Manufacturer's standard painted coating applied according to MFMA-4.
  - 5. Channel Dimensions: Selected for applicable load criteria.
- B. Raceway and Cable Supports: As described in NECA 1 and NECA 101.
- C. Conduit and Cable Support Devices: Steel hangers, clamps, and associated fittings, designed for types and sizes of raceway or cable to be supported.
- D. Support for Conductors in Vertical Conduit: Factory-fabricated assembly consisting of threaded body and insulating wedging plug or plugs for non-armored electrical conductors or cables in riser conduits. Plugs shall have number, size, and shape of conductor gripping pieces as required to suit individual conductors or cables supported. Body shall be malleable iron.
- E. Structural Steel for Fabricated Supports and Restraints: ASTM A 36/A 36M, steel plates, shapes, and bars; black and galvanized.



- F. Mounting, Anchoring, and Attachment Components: Items for fastening electrical items or their supports to building surfaces include the following:
1. Powder-Actuated Fasteners: Threaded-steel stud, for use in hardened portland cement concrete, steel, or wood, with tension, shear, and pullout capacities appropriate for supported loads and building materials where used.
    - a. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
      - 1) Hilti Inc.
      - 2) ITW Ramset/Red Head; a division of Illinois Tool Works, Inc.
      - 3) MKT Fastening, LLC.
      - 4) Simpson Strong-Tie Co., Inc.; Masterset Fastening Systems Unit.
  2. Mechanical-Expansion Anchors: Insert-wedge-type, zinc-coated steel, for use in hardened portland cement concrete with tension, shear, and pullout capacities appropriate for supported loads and building materials in which used.
    - a. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
      - 1) Cooper B-Line, Inc.; a division of Cooper Industries.
      - 2) Empire Tool and Manufacturing Co., Inc.
      - 3) Hilti Inc.
      - 4) ITW Ramset/Red Head; a division of Illinois Tool Works, Inc.
      - 5) MKT Fastening, LLC.
  3. Concrete Inserts: Steel or malleable-iron, slotted support system units similar to MSS Type 18; complying with MFMA-4 or MSS SP-58.
  4. Clamps for Attachment to Steel Structural Elements: MSS SP-58, type suitable for attached structural element.
  5. Through Bolts: Structural type, hex head, and high strength. Comply with ASTM A 325.
  6. Toggle Bolts: All-steel springhead type.
  7. Hanger Rods: Threaded steel.

## 2.2 FABRICATED METAL EQUIPMENT SUPPORT ASSEMBLIES

- A. Description: Welded or bolted, structural-steel shapes, shop or field fabricated to fit dimensions of supported equipment.
- B. Materials: Comply with requirements in Division 05 Section "Metal Fabrications" for steel shapes and plates.

## PART 3 - EXECUTION

### 3.1 APPLICATION

- A. Comply with NECA 1 and NECA 101 for application of hangers and supports for electrical equipment and systems except if requirements in this Section are stricter.
- B. Maximum Support Spacing and Minimum Hanger Rod Size for Raceway: Space supports for EMT, IMC, and RMC as required by NFPA 70. Minimum rod size shall be 1/4 inch in diameter.
- C. Multiple Raceways or Cables: Install trapeze-type supports fabricated with steel slotted support system, sized so capacity can be increased by at least 25 percent in future without exceeding specified design load limits.
  - 1. Secure raceways and cables to these supports with single-bolt conduit clamps using spring friction action for retention in support channel.

### 3.2 SUPPORT INSTALLATION

- A. Comply with NECA 1 and NECA 101 for installation requirements except as specified in this Article.
- B. Raceway Support Methods: In addition to methods described in NECA 1, EMT, IMC, and RMC may be supported by openings through structure members, as permitted in NFPA 70.
- C. Strength of Support Assemblies: Where not indicated, select sizes of components so strength will be adequate to carry present and future static loads within specified loading limits. Minimum static design load used for strength determination shall be weight of supported components plus 200 lb.
- D. Mounting and Anchorage of Surface-Mounted Equipment and Components: Anchor and fasten electrical items and their supports to building structural elements by the following methods unless otherwise indicated by code:
  - 1. To Wood: Fasten with lag screws or through bolts.
  - 2. To New Concrete: Bolt to concrete inserts.
  - 3. To Masonry: Approved toggle-type bolts on hollow masonry units and expansion anchor fasteners on solid masonry units.
  - 4. Instead of expansion anchors, powder-actuated driven threaded studs provided with lock washers and nuts may be used in existing standard-weight concrete 4 inches thick or greater. Do not use for anchorage to lightweight-aggregate concrete or for slabs less than 4 inches thick.
  - 5. To Steel: Beam clamps (MSS Type 19, 21, 23, 25, or 27) complying with MSS SP-69.
  - 6. To Light Steel: Sheet metal screws.
  - 7. Items Mounted on Hollow Walls and Nonstructural Building Surfaces: Mount cabinets, panelboards, disconnect switches, control enclosures, pull and junction boxes,

transformers, and other devices on slotted-channel racks attached to substrate by means that meet strength and anchorage requirements.

- E. Drill holes for expansion anchors in concrete at locations and to depths that avoid reinforcing bars.

### 3.3 PAINTING

- A. Touchup: Comply with requirements in Division 09 painting Sections for cleaning and touchup painting of field welds, bolted connections, and abraded areas of shop paint on miscellaneous metal.
- B. Galvanized Surfaces: Clean welds, bolted connections, and abraded areas and apply galvanizing-repair paint to comply with ASTM A 780.

**END OF SECTION**

## **SECTION 260533 - RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### **1.2 SUMMARY**

- A. Section Includes:
  - 1. Metal conduits, tubing, and fittings.
  - 2. Nonmetal conduits, tubing, and fittings.
  - 3. Boxes, enclosures, and cabinets.

#### **1.3 SUBMITTALS**

- A. Product Data: For raceways, wireways and fittings, floor boxes, hinged-cover enclosures, and cabinets.
- B. Shop Drawings: For custom enclosures and cabinets. Include plans, elevations, sections, and attachment details.

### **PART 2 - PRODUCTS**

#### **2.1 METAL CONDUITS, TUBING, AND FITTINGS**

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. AFC Cable Systems, Inc.
  - 2. Allied Tube & Conduit; a Tyco International Ltd. Co.
  - 3. Anamet Electrical, Inc.
  - 4. Electri-Flex Company.
  - 5. O-Z/Gedney; a brand of EGS Electrical Group.
  - 6. Picoma Industries, a subsidiary of Mueller Water Products, Inc.
  - 7. Republic Conduit.
  - 8. Robroy Industries.
  - 9. Southwire Company.
  - 10. Thomas & Betts Corporation.
  - 11. Western Tube and Conduit Corporation.
  - 12. Wheatland Tube Company; a division of John Maneely Company.

- B. Listing and Labeling: Metal conduits, tubing, and fittings shall be listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- C. IMC: Comply with ANSI C80.6 and UL 1242.
- D. EMT: Comply with ANSI C80.3 and UL 797.
- E. FMC: Comply with UL 1; zinc-coated steel.
- F. LFMC: Flexible steel conduit with PVC jacket and complying with UL 360.
- G. Fittings for Metal Conduit: Comply with NEMA FB 1 and UL 514B.
  - 1. Conduit Fittings for Hazardous (Classified) Locations: Comply with UL 886 and NFPA 70.
  - 2. Fittings for EMT:
    - a. Material: Steel.
    - b. Type: Compression.
  - 3. Expansion Fittings: PVC or steel to match conduit type, complying with UL 651, rated for environmental conditions where installed, and including flexible external bonding jumper.
- H. Joint Compound for IMC: Approved, as defined in NFPA 70, by authorities having jurisdiction for use in conduit assemblies, and compounded for use to lubricate and protect threaded conduit joints from corrosion and to enhance their conductivity.

## 2.2 NONMETALLIC CONDUITS, TUBING, AND FITTINGS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. AFC Cable Systems, Inc.
  - 2. Anamet Electrical, Inc.
  - 3. Arnco Corporation.
  - 4. CANTEX Inc.
  - 5. CertainTeed Corp.
  - 6. Condux International, Inc.
  - 7. Electri-Flex Company.
  - 8. Kraloy.
  - 9. Lamson & Sessions; Carlon Electrical Products.
  - 10. Niedax-Kleinhuis USA, Inc.
  - 11. RACO; a Hubbell company.
  - 12. Thomas & Betts Corporation.
- B. Listing and Labeling: Nonmetallic conduits, tubing, and fittings shall be listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- C. RNC: Type EPC-40-PVC, complying with NEMA TC 2 and UL 651 unless otherwise indicated.

- D. LFNC: Comply with UL 1660.
- E. Fittings for RNC: Comply with NEMA TC 3; match to conduit or tubing type and material.
- F. Fittings for LFNC: Comply with UL 514B.
- G. Solvent cements and adhesive primers shall have a VOC content of 510 and 550 g/L or less, respectively, when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

### 2.3 BOXES, ENCLOSURES, AND CABINETS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. Adalet.
  - 2. Cooper Technologies Company; Cooper Crouse-Hinds.
  - 3. EGS/Appleton Electric.
  - 4. Erickson Electrical Equipment Company.
  - 5. FSR Inc.
  - 6. Hoffman; a Pentair company.
  - 7. Hubbell Incorporated; Killark Division.
  - 8. Kraloy.
  - 9. Milbank Manufacturing Co.
  - 10. Mono-Systems, Inc.
  - 11. O-Z/Gedney; a brand of EGS Electrical Group.
  - 12. RACO; a Hubbell Company.
  - 13. Robroy Industries.
  - 14. Spring City Electrical Manufacturing Company.
  - 15. Stahlin Non-Metallic Enclosures; a division of Robroy Industries.
  - 16. Thomas & Betts Corporation.
  - 17. Wiremold / Legrand.
- B. General Requirements for Boxes, Enclosures, and Cabinets: Boxes, enclosures, and cabinets installed in wet locations shall be listed for use in wet locations.
- C. Sheet Metal Outlet and Device Boxes: Comply with NEMA OS 1 and UL 514A.
- D. Cast-Metal Outlet and Device Boxes: Comply with NEMA FB 1, aluminum, Type FD, with gasketed cover.
- E. Nonmetallic Outlet and Device Boxes: Comply with NEMA OS 2 and UL 514C.
- F. Luminaire Outlet Boxes: Nonadjustable, designed for attachment of luminaire weighing 50 lb. Outlet boxes designed for attachment of luminaires weighing more than 50 lb shall be listed and marked for the maximum allowable weight.
- G. Small Sheet Metal Pull and Junction Boxes: NEMA OS 1.
- H. Box extensions used to accommodate new building finishes shall be of same material as recessed box.

- I. Device Box Dimensions: 4 inches square by 2-1/8 inches deep or 4 inches by 2-1/8 inches by 2-1/8 inches deep.
- J. Hinged-Cover Enclosures: Comply with UL 50 and NEMA 250, Type 1 with continuous-hinge cover with flush latch unless otherwise indicated.
  - 1. Metal Enclosures: Steel, finished inside and out with manufacturer's standard enamel.
- K. Cabinets:
  - 1. NEMA 250, Type 1 galvanized-steel box with removable interior panel and removable front, finished inside and out with manufacturer's standard enamel.
  - 2. Hinged door in front cover with flush latch and concealed hinge.
  - 3. Key latch to match panelboards.
  - 4. Metal barriers to separate wiring of different systems and voltage.

## PART 3 - EXECUTION

### 3.1 RACEWAY APPLICATION

- A. Outdoors: Apply raceway products as specified below unless otherwise indicated:
  - 1. Exposed Conduit: GRC or IMC.
  - 2. Concealed Conduit, Aboveground: IMC.
  - 3. Underground Conduit: RNC, Type EPC-40-PVC.
  - 4. Connection to Vibrating Equipment (Including Transformers and Hydraulic, Pneumatic, Electric Solenoid, or Motor-Driven Equipment): LFMC.
  - 5. Below concrete slab: RNC, Type EPC-40-PVC.
  - 6. Boxes and Enclosures, Aboveground: NEMA 250, Type 3R.
- B. Indoors: Apply raceway products as specified below unless otherwise indicated:
  - 1. Exposed, Not Subject to Physical Damage: EMT.
  - 2. Exposed, Not Subject to Severe Physical Damage: EMT.
  - 3. Exposed and Subject to Severe Physical Damage: IMC.
  - 4. Concealed in Ceilings and Interior Walls and Partitions: EMT.
  - 5. Connection to Vibrating Equipment (Including Transformers and Hydraulic, Pneumatic, Electric Solenoid, or Motor-Driven Equipment): FMC, except use LFMC in damp or wet locations.
  - 6. Damp or Wet Locations: IMC.
  - 7. Boxes and Enclosures: NEMA 250, Type 1.
- C. Minimum Raceway Size: 3/4-inch trade size.
- D. Raceway Fittings: Compatible with raceways and suitable for use and location.
  - 1. Rigid and Intermediate Steel Conduit: Use threaded rigid steel conduit fittings unless otherwise indicated. Comply with NEMA FB 2.10.

2. EMT: Use compression, stainless steel fittings with insulated throat. Comply with NEMA FB 2.10.
3. Flexible Conduit: Use only fittings listed for use with flexible conduit. Comply with NEMA FB 2.20.

### 3.2 INSTALLATION

- A. Comply with NECA 1 and NECA 101 for installation requirements except where requirements on Drawings or in this article are stricter. Comply with NECA 102 for aluminum conduits. Comply with NFPA 70 limitations for types of raceways allowed in specific occupancies and number of floors.
- B. Keep raceways at least 6 inches away from parallel runs of flues and steam or hot-water pipes. Install horizontal raceway runs above water and steam piping.
- C. Complete raceway installation before starting conductor installation.
- D. Comply with requirements in Division 26 Section "Hangers and Supports for Electrical Systems" for hangers and supports.
- E. Arrange stub-ups so curved portions of bends are not visible above finished slab.
- F. Install no more than the equivalent of three 90-degree bends in any conduit run except for control wiring conduits, for which fewer bends are allowed. Support within 12 inches of changes in direction.
- G. Conceal conduit and EMT within finished walls, ceilings, and floors unless otherwise indicated. Install conduits parallel or perpendicular to building lines.
- H. A. Support conduit within 12 inches of enclosures to which attached.
- I. Raceways Embedded in Slabs:
  1. Run conduit larger than 1-inch trade size, parallel or at right angles to main reinforcement. Where at right angles to reinforcement, place conduit close to slab support. Secure raceways to reinforcement at maximum 10-foot intervals.
  2. Arrange raceways to cross building expansion joints at right angles with expansion fittings.
  3. Arrange raceways to keep a minimum of 2 inches of concrete cover in all directions.
- J. Stub-ups to Above Recessed Ceilings:
  1. Use EMT, IMC, or RMC for raceways.
  2. Use a conduit bushing or insulated fitting to terminate stub-ups not terminated in hubs or in an enclosure.
- K. Threaded Conduit Joints, Exposed to Wet, Damp, Corrosive, or Outdoor Conditions: Apply listed compound to threads of raceway and fittings before making up joints. Follow compound manufacturer's written instructions.
- L. Coat field-cut threads on PVC-coated raceway with a corrosion-preventing conductive compound prior to assembly.



- M. Raceway Terminations at Locations Subject to Moisture or Vibration: Use insulating bushings to protect conductors including conductors smaller than No. 4 AWG.
- N. Terminate threaded conduits into threaded hubs or with locknuts on inside and outside of boxes or cabinets. Install bushings on conduits up to 1-1/4-inch trade size and insulated throat metal bushings on 1-1/2-inch trade size and larger conduits terminated with locknuts. Install insulated throat metal grounding bushings on service conduits.
- O. Install raceways square to the enclosure and terminate at enclosures with locknuts. Install locknuts hand tight plus 1/4 turn more.
- P. Do not rely on locknuts to penetrate nonconductive coatings on enclosures. Remove coatings in the locknut area prior to assembling conduit to enclosure to assure a continuous ground path.
- Q. Cut conduit perpendicular to the length. For conduits 2-inch trade size and larger, use roll cutter or a guide to make cut straight and perpendicular to the length.
- R. Install pull wires in empty raceways. Use polypropylene or monofilament plastic line with not less than 200-lb tensile strength. Leave at least 12 inches of slack at each end of pull wire. Cap underground raceways designated as spare above grade alongside raceways in use.
- S. Expansion-Joint Fittings:
  - 1. Install in each run of aboveground RNC that is located where environmental temperature change may exceed 30 deg F and that has straight-run length that exceeds 25 feet. Install in each run of aboveground RMC and EMT conduit that is located where environmental temperature change may exceed 100 deg F and that has straight-run length that exceeds 100 feet.
  - 2. Install type and quantity of fittings that accommodate temperature change listed for each of the following locations:
    - a. Outdoor Locations Not Exposed to Direct Sunlight: 125 deg F temperature change.
    - b. Outdoor Locations Exposed to Direct Sunlight: 155 deg F temperature change.
    - c. Indoor Spaces Connected with Outdoors without Physical Separation: 125 deg F temperature change.
  - 3. Install fitting(s) that provide expansion and contraction for at least 0.00041 inch per foot of length of straight run per deg F of temperature change for PVC conduits. Install fitting(s) that provide expansion and contraction for at least 0.000078 inch per foot of length of straight run per deg F of temperature change for metal conduits.
  - 4. Install expansion fittings at all locations where conduits cross building or structure expansion joints.
  - 5. Install each expansion-joint fitting with position, mounting, and piston setting selected according to manufacturer's written instructions for conditions at specific location at time of installation. Install conduit supports to allow for expansion movement.
- T. Flexible Conduit Connections: Comply with NEMA RV 3. Use a maximum of 72 inches of flexible conduit for recessed and semirecessed luminaires, equipment subject to vibration, noise transmission, or movement; and for transformers and motors.

1. Use LFMC in damp or wet locations subject to severe physical damage.
  2. Use LFMC in damp or wet locations not subject to severe physical damage.
- U. Mount boxes at heights indicated on Drawings. If mounting heights of boxes are not individually indicated, give priority to ADA requirements. Install boxes with height measured to center of box unless otherwise indicated.
- V. Recessed Boxes in Masonry Walls: Saw-cut opening for box in center of cell of masonry block, and install box flush with surface of wall. Prepare block surfaces to provide a flat surface for a raintight connection between box and cover plate or supported equipment and box.
- W. Horizontally separate boxes mounted on opposite sides of walls so they are not in the same vertical channel.
- X. Locate boxes so that cover or plate will not span different building finishes.
- Y. Support boxes of three gangs or more from more than one side by spanning two framing members or mounting on brackets specifically designed for the purpose.
- Z. Fasten junction and pull boxes to or support from building structure. Do not support boxes by conduits.

### 3.3 FIRESTOPPING

- A. Install firestopping at penetrations of fire-rated floor and wall assemblies. Comply with requirements in Division 07 Section "Penetration Firestopping."

### 3.4 PROTECTION

- A. Protect coatings, finishes, and cabinets from damage and deterioration.
1. Repair damage to galvanized finishes with zinc-rich paint recommended by manufacturer.

**END OF SECTION**

# WETHINGTON ALLIED HEALTH PROJECT 2771.0 - SUITE 327 MODIFICATIONS

**UNIVERSITY OF KENTUCKY  
LEXINGTON, KENTUCKY**

DESIGN AND CONSTRUCTION ADMINISTRATION PROVIDED BY:  
**FACILITIES ENGINEERING**  
211 PETERSON SERVICE BUILDING  
LEXINGTON, KY 40506



## DRAWING INDEX

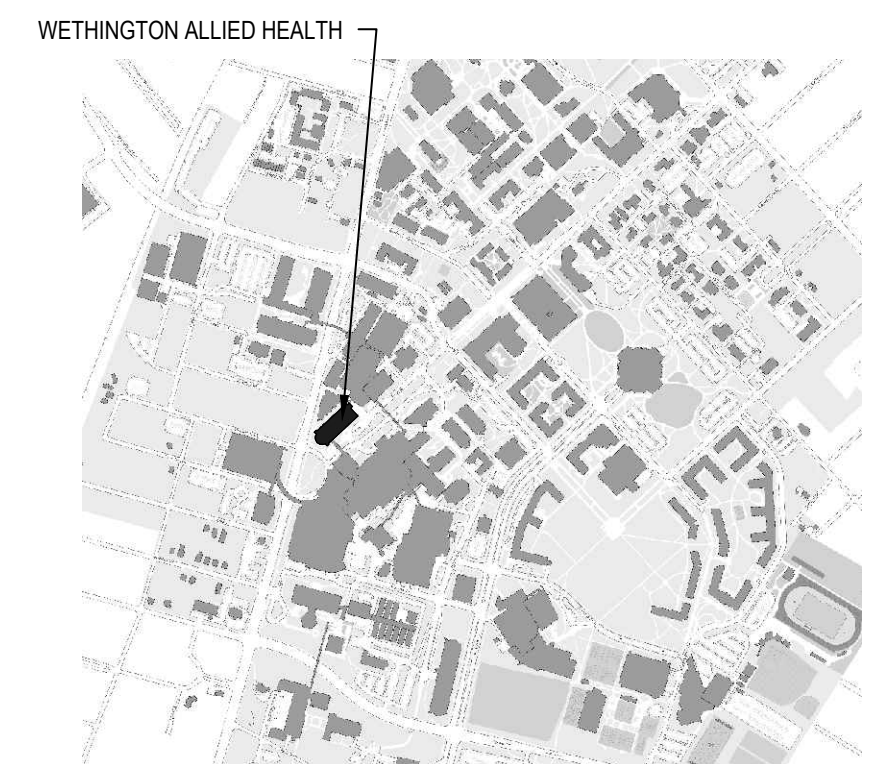
T-100	TITLE SHEET AND DRAWING INDEX SHEET
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AD-101	ARCHITECTURAL DEMOLITION FLOOR PLAN
AD-102	ARCHITECTURAL DEMOLITION CEILING PLAN
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## PROJECT DESCRIPTION

THIS PROJECT RENOVATES ADMINISTRATIVE OFFICES ON THE THIRD FLOOR OF WETHINGTON ALLIED HEALTH BUILDING. THIS PROJECT RELOCATES WALLS TO ENLARGE TWO OFFICES ADJACENT TO A CONFERENCE ROOM, MODIFIES ACCESS TO THE CONFERENCE ROOM, UPDATES FINISHES, RECONFIGURES KITCHENETTE CABINETRY, ETC..

**NOTE:** DUE TO THE HIGH PROFILE NATURE OF THE OFFICES, ALL WORK IS TO BE DONE DURING NON-BUSINESS HOURS AND READY EACH DAY FOR CONTINUED OCCUPANCY.

## VICINITY MAP



**UNIVERSITY OF KENTUCKY**  
FACILITIES ENGINEERING



WETHINGTON ALLIED HEALTH  
SUITE 327 MODIFICATIONS

TITLE SHEET; DRAWING INDEX; PROJECT DESCRIPTION; VICINITY MAP

### REVISIONS

NO.	DATE

BUILDING NO: **200**  
DESIGNED BY: **GWW**  
DRAWN BY: **GWW**  
CHECKED BY: **TA**  
APPROVED BY: **PK**  
PROJECT NO: **2771.0**  
DATE: **12/14/2023**

DRAWING NUMBER  
**T-001**



## ARCHITECTURAL GENERAL NOTES:

### DEMOLITION:

- A. COORDINATE DEMOLITION WORK WITH NEW WORK. REMOVE ADDITIONAL EXISTING ITEMS AS REQUIRED TO PERFORM NEW WORK.
- B. WHEN INDICATED IN DRAWINGS AS BEING REQUIRED, COORDINATE HAZARDOUS MATERIAL ABATEMENT WITH TOMMY TAYLOR IN UK ENVIRONMENTAL MANAGEMENT DEPARTMENT - 257-5295 (O), 229-3045 (C) OR TWTAYL02UKY.EDU
- C. REFER TO WORK RESTRICTIONS IN THE PROJECT MANUAL. CLOSELY FOLLOW THE PROJECT MANUAL REQUIREMENTS FOR THE LOCATIONS AND TYPES OF BARRICADES, WORKING HOURS, AND NOTIFICATIONS TO THE OWNER. COORDINATE DEMOLITION TO MAINTAIN PROTECTION OF THE EXISTING BUILDING.
- D. REFER TO THE PROJECT MANUAL SECTIONS ENTITLED "CUTTING AND PATCHING" AND "SELECTIVE DEMOLITION."
- E. REFER TO THE MECHANICAL, ELECTRICAL, PLUMBING, AND STRUCTURAL DRAWINGS AND COORDINATE DEMOLITION WORK WITH ALL DISCIPLINES.
- F. FOR PROJECTS LOCATED WITHIN PATIENT CARE AREAS OF THE HOSPITALS OR CLINICS, COORDINATE ALL DEMOLITION WORK WITH "INFECTION CONTROL GUIDELINES". DO NOT REMOVE AND TRANSPORT MATERIALS IN A MANNER THAT WOULD BE UNSAFE TO PATIENTS AND STAFF.
- G. SURFACES ADJACENT TO AREAS OF DEMOLITION WHICH ARE AFFECTED BY THE WORK SHALL BE PATCHED AND FINISHED TO MATCH ADJACENT SURFACES.
- H. ALL DEMOLITION SHALL BE DISPOSED OF IN A MANNER ACCEPTABLE TO LOCAL AND STATE REGULATORY AGENCIES.
- I. CONTRACTOR SHALL PROVIDE TEMPORARY PARTITIONS TO AVOID MIGRATION OF DUST INTO ADJACENT OCCUPIED AREAS.
- J. IF APPLICABLE, SEE EARTHMOVING SPECIFICATION FOR ADDITIONAL EXCAVATION SPECIFICATIONS.
- K. ALL ROCK AND CONCRETE REMOVAL SHALL BE PERFORMED SO THAT THE EXISTING BUILDING AND BUILDING SYSTEMS (INCLUDING SENSITIVE MEDICAL SYSTEMS) ARE NOT NEGATIVELY AFFECTED. CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS WITH THE OWNER PRIOR TO CONSTRUCTION.
- L. BLASTING, JACKHAMMERING, AND HOE RAMMING ARE PROHIBITED ON SITE.
- M. CHEMICAL ROCK BREAKING (I.E. NON-EXPLOSIVE EXPANDING GROUT) IS AN ACCEPTABLE FORM OF DEMOLITION AND ROCK REMOVAL.
- N. USE OF NON-VIBRATION INDUCING HYDRAULIC BREAKING MACHINES, SAWS AND WIRE CUTTERS IS AN ACCEPTABLE FORM OF DEMOLITION AND ROCK REMOVAL.
- O. REMOVAL OF CHEMICALLY BROKEN ROCK FROM THE SITE SHALL BE COORDINATED WITH THE OWNER TO AVOID INTERFERENCE WITH SENSITIVE MEDICAL EQUIPMENT DURING HOURS OF OPERATION

### ARCHITECTURAL:

- A. WORK SHOWN ON THE DRAWINGS SHALL BE BASE BID UNLESS SPECIFICALLY NOTED TO BE BY ALTERNATE BID.
- B. FIELD VERIFY EXISTING FINISH FLOOR ELEVATIONS PRIOR TO STARTING CONSTRUCTION. MATCH NEW FLOOR ELEVATION WITH EXISTING UNLESS NOTED OTHERWISE.
- C. DRAWING DIMENSIONS ARE TO FINISHED SURFACE. FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO STARTING WORK AND NOTIFY ARCHITECT IMMEDIATELY IF DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS.
- D. WHERE A FIXED DIMENSION IS SHOWN ON AN ACCESSIBLE FIXTURE OR ACCESSORY, THAT ITEM SHALL BE INSTALLED EXACTLY AS DIMENSIONED. REFER TO THE ACCESSORY MOUNTING LEGEND FOR MOUNTING HEIGHTS.
- E. DO NOT SCALE DRAWINGS. REFER DIMENSION QUESTIONS TO ARCHITECT FOR INTERPRETATION.
- F. DOOR AND FRAME NUMBERS CORRESPOND TO RESPECTIVE ROOM NUMBERS. IN ROOMS WITH MULTIPLE OPENINGS, A SUFFIX HAS BEEN ADDED TO DOOR NUMBERS, I.E., A101-B.
- G. LOCATE INSIDE FACE OF DOOR FRAME JAMBS 6 INCHES FROM FINISH FACE OF ADJACENT WALLS UNLESS NOTED OTHERWISE.
- H. COORDINATE EQUIPMENT WORK WITH MANUFACTURERS AND SUPPLIERS TO INSURE PROPER ROUGH-IN CLEARANCES FOR INSTALLATION, USE AND MAINTENANCE.
- I. REFER TO CIVIL DRAWINGS FOR FINISH FLOOR ELEVATIONS RELATIVE TO SITE GRADING.
- J. PROTECT EXISTING SURFACES TO REMAIN THAT ARE NOT INCLUDED IN SCOPE OF WORK BUT THAT ARE WITHIN AREAS OF CONSTRUCTION ACTIVITY.
- K. PATCH, REPAIR AND RESTORE EXISTING FINISHES AND SURFACES TO "AS NEW CONDITION" AS REQUIRED TO MATCH SURROUNDING MATERIALS OR TO PROVIDE APPROPRIATE SUBSTRATE PRIOR TO INSTALLING NEW FINISHES. AREAS NOTED TO BE PATCHED OR REPAIRED ON THE DRAWINGS ARE GIVEN FOR REFERENCE AND SHALL NOT BE INTERPRETED TO LIMIT THE SCOPE OF WORK.
- L. VERTICAL COURSING FOR NEW MASONRY WALL CONSTRUCTION SHALL EQUAL EIGHT INCHES (8") FOR ONE CONCRETE MASONRY UNIT PLUS ONE MORTAR JOINT AND THREE BRICK COURSES PLUS THREE MORTAR JOINTS, UNLESS NOTED OTHERWISE.
- M. TOOTH NEW MASONRY INTO EXISTING MASONRY UNLESS OTHERWISE INDICATED. PROVIDE HORIZONTAL ANCHORS BETWEEN NEW AND EXISTING MASONRY AT CONDITIONS THAT PROHIBIT TOOTHED-TYPE CONSTRUCTION. HORIZONTAL JOINTS OF NEW MASONRY SHALL MATCH EXISTING UNLESS OTHERWISE INDICATED. NEW MASONRY BOND SHALL MATCH EXISTING UNLESS OTHERWISE INDICATED.
- N. PROVIDE CONTROL JOINTS (C.J.) IN MASONRY WALL CONSTRUCTION AS INDICATED. WHERE NOT SHOWN, PROVIDE MAXIMUM SPACING BETWEEN JOINTS OF 40'-0" AND MAXIMUM DISTANCE BETWEEN OUTSIDE CORNERS AND JOINTS OF 10'-0." PROVIDE JOINTS BETWEEN INTERIOR LOAD BEARING AND NON-LOAD BEARING PARTITIONS, AT ALL ABRUPT CHANGES IN WALL HEIGHT, AT CHANGES IN PARTITION THICKNESS AND AT PILASTER LOCATIONS. VERIFY FINAL CONTROL JOINT LOCATIONS WHETHER OR NOT INDICATED ON THE DRAWINGS WITH ARCHITECT PRIOR TO STARTING WORK.
- O. PROVIDE CONTROL JOINTS (C.J.) IN GYPSUM BOARD WALL CONSTRUCTION AS INDICATED. WHERE NOT SHOWN, PROVIDE MAXIMUM SPACING BETWEEN JOINTS OF 30'-0." VERIFY FINAL CONTROL JOINT LOCATIONS WHETHER OR NOT INDICATED ON THE DRAWINGS WITH ARCHITECT PRIOR TO STARTING WORK.
- P. INTERIOR STUD SPACING SHALL BE MAXIMUM 16" ON CENTER UNLESS NOTED OTHERWISE.
- Q. PROVIDE FINISHED END PANELS, FILLERS, SUPPORTS, ETC. REQUIRED FOR A COMPLETE CABINETS INSTALLATION. PROVIDE CUTOUPS, ACCESS PANELS AND REMOVABLE COMPONENTS AS REQUIRED BY NEW OR EXISTING CONDITIONS SUCH AS ELECTRICAL OUTLETS, JUNCTION BOXES, CLEANOUTS, ETC.

- R. VERIFY MOUNTING HEIGHTS OF ACCESSORIES, EQUIPMENT, DOOR HARDWARE, CASEWORK, ETC., AND PROVIDE SOLID 2X SUPPORT WOOD BLOCKING FASTENED TO FRAMING MEMBERS AS REQUIRED TO SUPPORT WEIGHT AND USE OF ITEMS. WHERE MOUNTING HEIGHTS ARE NOT INDICATED, MOUNT ITEMS IN ACCORDANCE WITH RECOGNIZED INDUSTRY STANDARDS, COORDINATE LOCATIONS WITH MANUFACTURER OR SUPPLIER AND REFER MOUNTING HEIGHT QUESTIONS TO ARCHITECT FOR INTERPRETATION.
- S. AT ALL EXTERIOR ENVELOPE CONDITIONS, SOLID WOOD BLOCKING INDICATED SHALL BE CONTINUOUS, UNLESS SPECIFICALLY NOTED OTHERWISE
- T. PROVIDE SEALANT BETWEEN HOLLOW METAL FRAME PERIMETERS AND SURROUNDING WALL/FLOOR CONSTRUCTION UNLESS OTHERWISE INDICATED.
- U. PROVIDE SEALANT AT FRAME'S PERIMETER JOINT WITH THE SURROUNDING CONSTRUCTION.
- V. PROVIDE SEALANT BETWEEN DISSIMILAR MATERIALS SUCH AS GYPSUM BOARD AND MASONRY, MASONRY AND CONCRETE, COUNTERTOPS AND WALLS, ETC.
- W. STAIRWELLS, ELEVATOR HOISTWAYS, ELEVATOR EQUIPMENT ROOMS, AND SHAFT WALLS SHALL BE TWO-HOUR FIRE-RATED CONSTRUCTION UNLESS OTHERWISE INDICATED.
- X. REPAIR AND PATCH SPRAYED FIRE-RESISTIVE AND FIRESTOP MATERIALS WHERE DAMAGED DUE TO INSTALLATION OF NEW MATERIALS TO RESTORE SPECIFIED FIRE RATING.
- Y. DO NOT BEGIN WORK THAT MAY REQUIRE COORDINATION, SUCH AS CEILING INSTALLATION, PRIOR TO FINAL SUBMITTAL OF MECHANICAL AND ELECTRICAL COORDINATION DRAWINGS TO ARCHITECT; NOR PRIOR TO RESOLUTION AND APPROVAL OF COORDINATION ISSUES.
- Z. REFER TO LIFE SAFETY DRAWINGS FOR FIRE-RATED FLOOR, WALL, CEILING AND ROOF LOCATIONS. INSTALL FIRESTOPPING AT PENETRATIONS IN RATED CONSTRUCTION AND AT TOPS OF RATED WALLS.
  - Z.1. REFER TO STRUCTURAL DRAWINGS FOR FOOTING, UNDERSLAB DRAINAGE AND BACKFILL REQUIREMENTS.
  - Z.2. REFER TO LANDSCAPE AND CIVIL DRAWINGS FOR SITE ELEMENTS AND IMPROVEMENTS ADJACENT TO BUILDING EXTERIOR.
  - Z.3. REFER TO CIVIL DRAWINGS FOR FOUNDATION DRAINS AND STORM DRAINAGE REQUIREMENTS.

### SIGNAGE:

- A. ALL INTERIOR SIGNAGE (TEXT, BRAILLE, PICTOGRAMS, SIZES, ETC) SHALL CONFORM WITH ICC/ANSI A117.1 'ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES', CHAPTER 703.
- B. ALL PERMANENT SIGNAGE TEXT TO BE VERIFIED WITH OWNER PRIOR TO FABRICATION.
- C. REFER TO DRAWING SHEET A-621 AND SPECIFICATIONS FOR SIGNAGE SCHEDULE AND SIGNAGE TYPES SHOWN.

### CEILING:

- A. CENTER CEILING GRIDS WITHIN ROOMS EACH DIRECTION UNLESS NOTED/DIMENSIONED OTHERWISE.
- B. LOCATE CEILING GRIDS WITHIN ROOMS SUCH THAT BORDERS CONTAIN NOT LESS THAN 1/2 TILE WIDTH, UNLESS OTHERWISE INDICATED.
- C. CENTER PENETRATIONS IN ACOUSTICAL CEILING SYSTEMS WITHIN INDIVIDUAL CEILING PANELS, SUCH AS SPRINKLER HEADS, DIFFUSERS, LIGHT FIXTURES, ETC., UNLESS OTHERWISE INDICATED.
- D. PAINT EXPOSED GYPSUM BOARD AND PLASTER CEILING SURFACES UNLESS OTHERWISE INDICATED.
- E. PROVIDE CONTROL JOINTS (C.J.) IN GYPSUM BOARD CEILING CONSTRUCTION AS INDICATED. WHERE NOT SHOWN, PROVIDE MAXIMUM SPACING BETWEEN JOINTS OF 30'-0." VERIFY FINAL CONTROL JOINT LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK WHETHER OR NOT INDICATED ON THE DRAWINGS.
- F. CEILING ACCESS PANELS INDICATED ARE NOT INTENDED TO LIMIT NUMBER OF PANELS REQUIRED. PANEL QUANTITY SHALL BE SUFFICIENT TO PROVIDE REQUIRED ACCESS WHETHER OR NOT INDICATED ON THE DRAWINGS. VERIFY FINAL LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK.
- G. REFER TO FINISH PLANS FOR ADDITIONAL CEILING FINISH INFORMATION.
- H. REFER TO ELECTRICAL LIGHTING DRAWINGS FOR CEILING-MOUNTED LIGHT FIXTURE TYPES AND QUANTITIES.
- I. REFER TO MECHANICAL DRAWINGS FOR CEILING-MOUNTED DIFFUSERS, GRILLE TYPES AND QUANTITIES.
- J. REFER TO FIRE PROTECTION DRAWINGS FOR SPRINKLER HEAD TYPES AND QUANTITIES. HEADS HAVE BEEN INTENTIONALLY OMITTED FROM REFLECTED CEILING PLANS FOR CLARITY.

### PARTITION TYPES:

- A. REFER TO FLOOR PLANS FOR LOCATIONS OF ALL INTERIOR PARTITION CONTROL JOINTS.
- B. REFER TO DETAILS B & C /A-702 FOR CONTROL JOINT DETAILS, INCLUDING CONTROL JOINT DETAILS FOR FIRE-RATED WALLS.
- C. REFER TO A/A-702 FOR THE DEFLECTION TRACK DETAIL TO BE USED AT ALL PARTITIONS CONNECTED TO STRUCTURE OR BRACED TO STRUCTURE.
- D. PROVIDE 5/8" TYPE X GYPSUM BOARD UNLESS NOTED OTHERWISE
- E. PROVIDE MOLD AND MOISTURE RESISTANT GYPSUM BOARD PANELS AT EXTERIOR WALLS, INCLUDING BASEMENT EXTERIOR WALLS, AND WITHIN 4'-0", IN EACH DIRECTION (LEFT, RIGHT, UP, DOWN, SIDE WALLS, ETC) OF OPERABLE PLUMBING FIXTURES.
- F. PROVIDE SOUND ENHANCED GYPSUM BOARD AS / IF INDICATED BY PARTITION TYPES.
- G. GAUGE, SPACING, AND PERFORMANCE REQUIREMENTS OF METAL STUDS SHALL BE DETERMINED BY SPECIFICATION, UNLESS NOTED OTHERWISE. STUDS AT LEAD-LINED GYPSUM BOARD WALLS SHALL BE 18 GAUGE.
- H. FOR UL DETAILS SHOWN, REFER TO SHEET A-701 FOR ADDITIONAL ASSEMBLY INFORMATION.
- I. PROVIDE TILE BACKING PANELS WHERE TILE IS INDICATED. -SEE FINISH SCHEDULE AND WALL TYPES. STOP BACKING PANELS 1" BELOW TOP OF TILE.
- J. FOR PENETRATION THROUGH UL DESIGN, PROVIDE THRU PENETRATION ASSEMBLIES EQUAL TO OR GREATER THAN THE FIRE RATING OF THE ASSEMBLY PENETRATED.
- K. SKIM COAT ANY EXISTING-TO-REMAIN WALLS WHERE WALL COVERING AND/OR WALL PROTECTION IS REMOVED, AND PREPARE AS REQUIRED TO RECEIVE NEW FINISHES.
- L. AT PENETRATIONS OF LEAD LININGS, PROVIDE LEAD SHIELDS AS REQUIRED TO MAINTAIN CONTINUITY OF PROTECTION. CONTRACTORS SHALL REFERENCE MECHANICAL AND E ELECTRICAL DRAWING FOR LOCATION OF THESE ITEMS. INSTALL SHEET LEAD BEHIND BACK BOXES OF EXISTING AND NEW LEAD LINED WALLS.

### DOORS AND FRAMES:

- A. REFER TO WALL SECTIONS AND INTERIOR PARTITION TYPES FOR ADDITIONAL NOTES REGARDING TYPICAL WALL CONSTRUCTION.
- B. MOUNT ANY INTERIOR SIGNAGE ON LATCH SIDE OF DOOR.
- C. ALL FIRE RATED DOORS SHALL BE CATEGORY "A" POSITIVE PRESSURE RATED COMPLYING WITH THE REQUIREMENTS OF UL 10C TESTING. ADDITIONAL INTUMESCENT SEALS SHALL NOT ACCEPTABLE. WHERE A FIRE RATING IS INDICATED ON THE DOOR SCHEDULE, HARDWARE AND DOOR ASSEMBLY COMPONENTS SHALL MEET THE REQUIREMENTS OF THAT LABEL.
- D. CYLINDERS / CORES TO BE PROVIDED BY CONTRACTOR; SEE HARDWARE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- E. ALL NEW HOLLOW METAL DOOR FRAMES ARE TO BE PAINTED, AND ARE TO RECEIVE SILENCERS UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DOOR SCHEDULE.
- F. UNLESS SPECIFICALLY NOTED OTHERWISE, THE SPECIES, CUT AND STAIN OF ALL NEW INTERIOR WOOD DOORS SHALL MATCH THE EXISTING WOOD DOORS OF THE RADIATION MEDICINE SUITE. CONTRACTOR SHALL SUBMIT SAMPLE FOR INITIAL MATCH APPROVAL, AND SHALL ALSO PROVIDE ONE FULL DOOR MOCKUP PRIOR TO ORDERING, FABRICATING INSTALLING PROJECT DOORS.
- G. PROVIDE SEALANT BETWEEN HOLLOW METAL FRAME PERIMETERS AND SURROUNDING WALL CONSTRUCTION, AND AT JOINTS WITH NEW FLOORING, UNLESS OTHERWISE INDICATED.
- H. SPOT GROUT NEW HOLLOW METAL DOOR FRAMES IN GYPSUM BOARD WALL CONSTRUCTION.
- I. AUTO-OPERATORS SHALL BE MOUNTED ON THE PUSH SIDE OF DOORS (SECURED SIDE).
- J. AT DOORS SHOWN WITH GLASS LITES, BOTTOM OF GLASS MUST BE NO HIGHER THAN 43" WHEN INSTALLED.
- K. LOCATE INSIDE FACE OF DOOR FRAME HINGE JAMBS 6 INCHES FROM FINISH FACE OF ADJACENT WALLS UNLESS NOTED OTHERWISE.

### CASEWORK:

- A. IN ADDITIONAL TO ALL KEYNOTES SHOWN, CASEWORK MANUFACTURER(S) SHALL PROVIDE FINISHED ENDS AT ALL EXPOSED SURFACES.
- B. PROVIDE IN-WALL BLOCKING FOR ALL WALL/TALL CABINETS. ALL WOOD BLOCKING TO BE FIRE TREATED.
- C. PROVIDE 4" HIGH SIDE SPLASHES AT ALL COUNTERTOPS ADJACENT TO WALLS OR OTHER VERTICAL SURFACE.
- D. PROVIDE ALL FILLERS, APRONS, CLOSURES, TRIM, ETC. AS REQ'D. FOR A COMPLETE INSTALLATION.
- E. PROVIDE 1" RADIUS ON ALL OUTSIDE, EXPOSED CORNERS OF COUNTERTOPS.
- F. UNLESS NOTED OTHERWISE, ALL BASE CABINETS ARE 24" DEEP. U.N.O., ALL WALL CABINETS ARE 12" DEEP.

### FINISHES:

- A. TO FINISH PLANS, REFLECTED CEILING PLANS, INTERIOR ELEVATIONS, ROOM FINISH SCHEDULE, FINISH MATERIAL SCHEDULE FOR FINISH MATERIAL LOCATIONS & INFORMATION.
- B. REFER TO CASEWORK DRAWINGS FOR LAMINATE AND SOLID SURFACE LOCATIONS.
- C. PAINT NEW & EXISTING HOLLOW METAL DOORS, DOOR FRAMES AND LINTELS EXPOSED TO VIEW IN FINISHED AREAS AND AT EXTERIOR LOCATIONS UNLESS OTHERWISE INDICATED.
- D. FINISH SOFFITS, BULKHEADS, AND SIMILAR CONDITIONS TO MATCH SURROUNDING SURFACES UNLESS OTHERWISE INDICATED. ONLY VERTICAL FACES OF SOFFITS TO BE PAINTED WITH WALL COLOR. HORIZONTAL SURFACES TO BE PAINTED CEILING WHITE, FLAT.
- E. PROVIDE FINISHES BEHIND FIXED EQUIPMENT SUCH AS CABINETS, CASEWORK, CHALK AND TACKBOARDS, LOCKERS, ETC.
- F. ALIGN FLOOR FINISH TRANSITIONS AT DOOR LOCATIONS WITH CENTERLINE OF DOOR SUCH THAT TRANSITION MATERIALS ARE NOT VISIBLE FROM EITHER SIDE WHEN DOOR IS IN CLOSED POSITION.
- G. FLOORING NOT NOTED AS ACCENT AREAS SHALL RECEIVE FIELD FLOORING - SEE FINISH MATERIAL SCHEDULE AND ROOM FINISH SCHEDULE FOR ADDITIONAL DETAILS.
- H. FOR FLOOR TRANSITIONS SHOWN, REFER TO DETAILS ON SHEET A-6XX.
- I. UNLESS SPECIFICALLY DENOTED OTHERWISE, ALL WALL AND FLOOR FINISHES SHALL EXTEND BEHIND AND/OR UNDER ALL EQUIPMENT, ACCESSORIES, FURNITURE, AND OWNER FURNISHED 'MIDMARK' MODULAR CASEWORK.
- J. WALLS NOT NOTED AS ACCENT PAINT SHALL RECEIVE FIELD PAINT, P-1.
- K. INSIDE CORNER OF TILE WALLS SHALL RECEIVE SEALANT JOINT IN LIEU OF GROUT, UNLESS NOTED OTHERWISE.

## INFECTION CONTROL GUIDELINES:

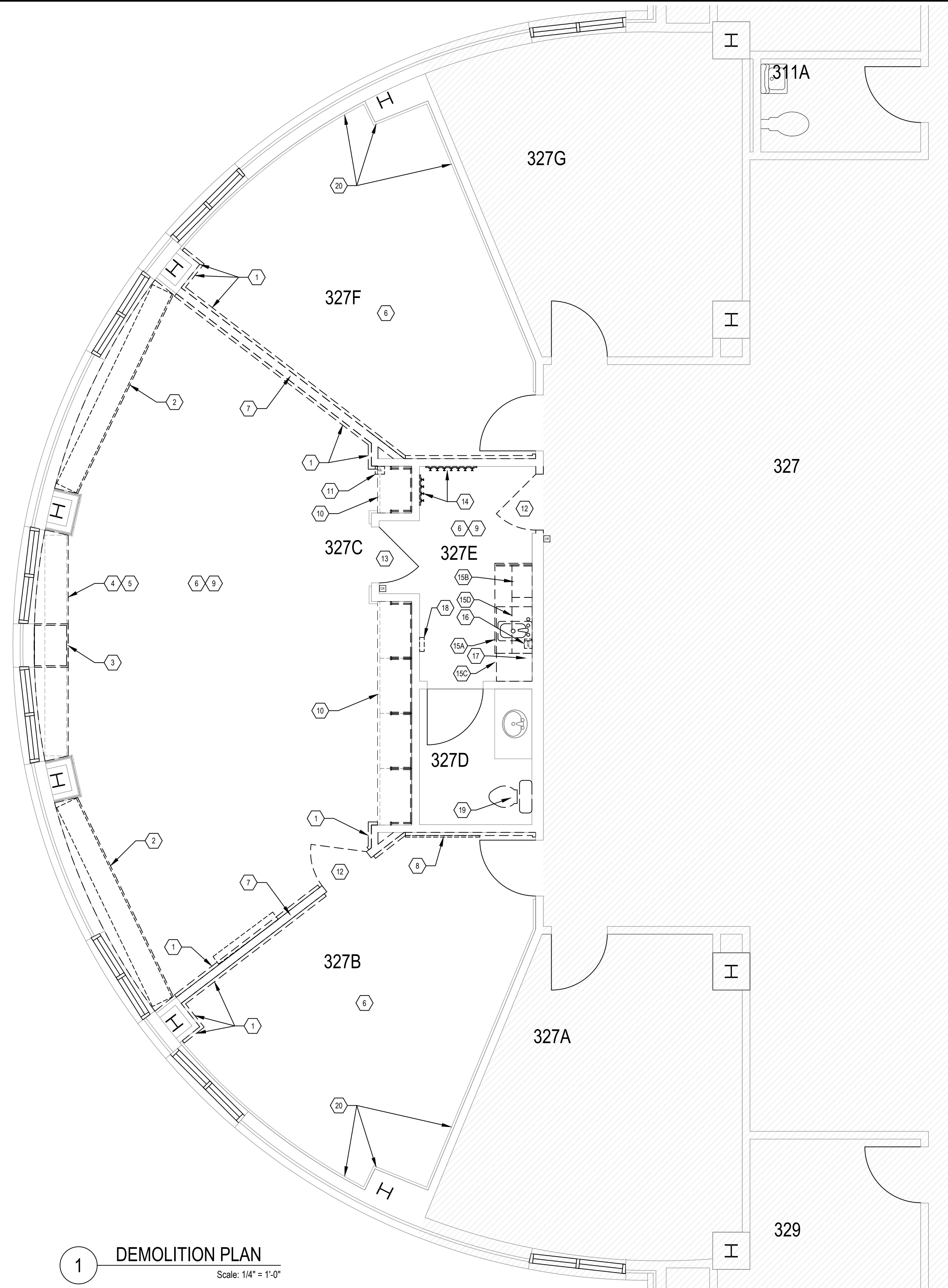
1. PROVIDE ACTIVE MEANS TO PREVENT AIRBORNE DUST FROM DISPERSING INTO ATMOSPHERE.
2. COMPLETE ALL CRITICAL BARRIERS (PREFABRICATED PANEL SYSTEM - 'EDGE-GUARD') TO SEAL AREA FROM NON-WORK AREA, OR IMPLEMENT CONTROL CUBE METHOD (CART WITH PLASTIC COVERING AND SEALED CONNECTION TO WORK SITE WITH HEPA VACUUM FOR VACUUMING PRIOR TO EXIT) BEFORE CONSTRUCTION BEGINS.
3. WATER MIST WORK SURFACE TO CONTROL DUST WHILE CUTTING.
4. SEAL UNUSED DOORS WITH DUCT TAPE.
5. BLOCK OFF AND SEAL AREA VENTS.
6. PLACE DUST MAT AT ENTRANCE AND EXIT OF WORK AREA.
7. REMOVE OR ISOLATE HVAC SYSTEM IN AREAS WHERE WORK IS BEING PERFORMED.
8. MAINTAIN NEGATIVE AIR PRESSURE WITHIN WORK SITE UTILIZING HEPA EQUIPPED FILTRATION UNITS.
9. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS.
10. COVER TRANSPORT RECEPTACLES OR CARTS. CLEAN WHEELS OF CARTS PRIOR TO ENTERING NON-WORK AREAS.
11. DO NOT REMOVE BARRIERS FROM WORK AREA UNTIL COMPLETED PROJECT IS INSPECTED BY THE OWNERS SAFETY DEPARTMENT AND INFECTION CONTROL DEPARTMENT AND THOROUGHLY CLEANED BY THE OWNERS ENVIRONMENTAL SERVICES DEPARTMENT.
12. REMOVE BARRIER MATERIAL CAREFULLY TO MINIMIZE SPREADING OF DIRT AND DEBRIS ASSOCIATED WITH CONSTRUCTION.
13. VACUUM AREA WITH HEPA FILTERED VACUUMS.
14. WET MOP AREA WITH DISINFECTANT.
15. UPON COMPLETION, RESTORE HVAC SYSTEM WHERE WORK WAS PERFORMED.



### REVISIONS

NO.	DATE

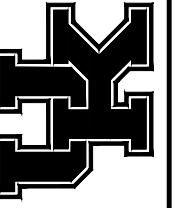
BUILDING NO:	200
DESIGNED BY:	GWW
DRAWN BY:	GWW
CHECKED BY:	TA
APPROVED BY:	PK
PROJECT NO:	2771.0
DATE:	12/14/2023
DRAWING NUMBER:	



**SHEET NOTES:** (X)

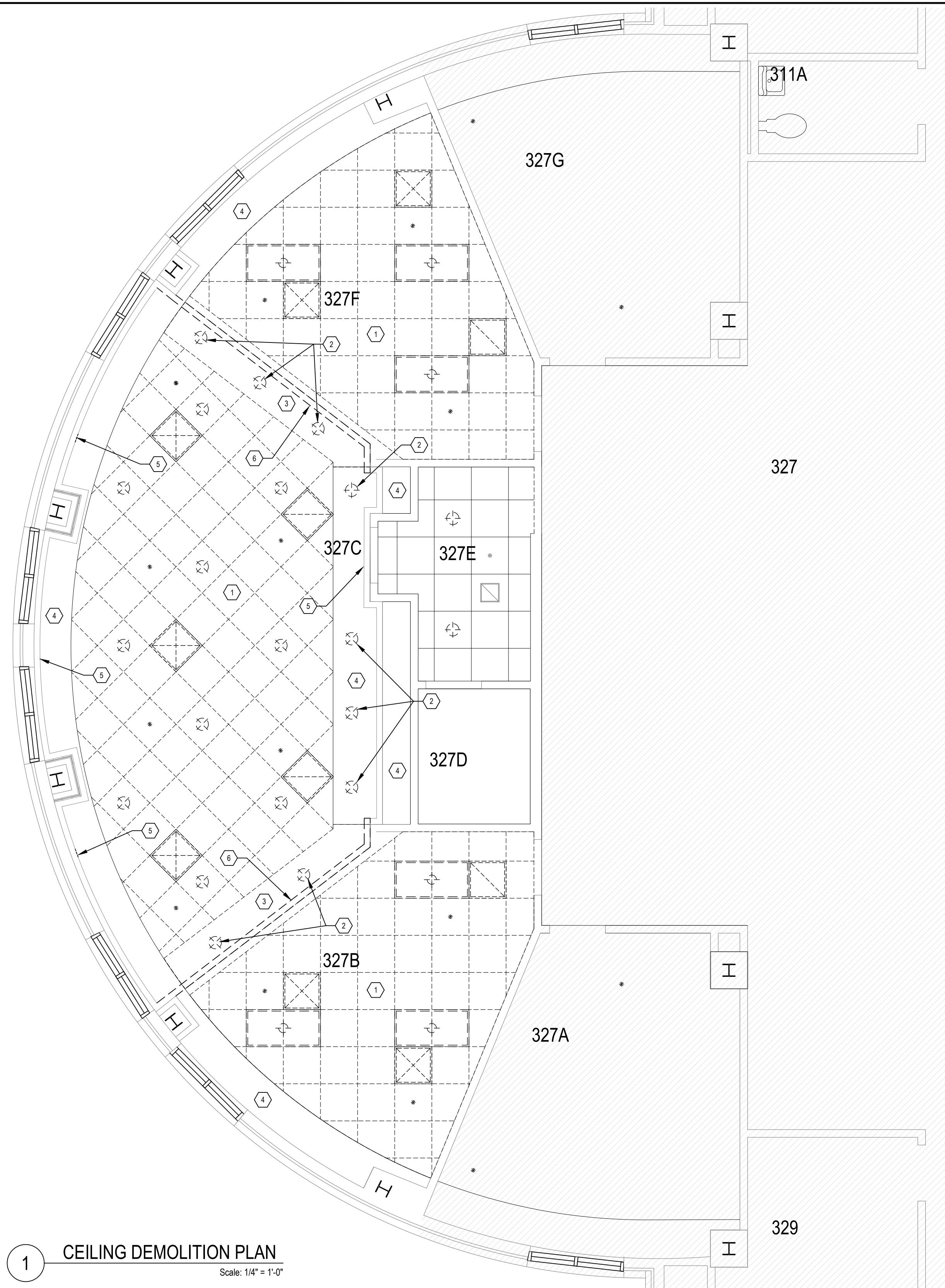
1. REMOVE AND SALVAGE EXISTING CHAIR RAIL FOR REUSE AS POSSIBLE.
2. REMOVE AND SALVAGE HINGES AND DOOR KNOBS AT CABINETS ON EXTERIOR WALL FOR REUSE ON NEW KITCHENETTE CABINETS. REMOVE AND SALVAGE PAINTED WOOD BASE FOR REUSE TO REPLACE DAMAGED BASE PER NOTE #5. DEMO REMAINDER OF CABINETS.
3. DEMO EXISTING A/V CABINET ON TOP OF BOOKCASE COUNTERTOP. COORDINATE WITH ELECTRICAL DRAWINGS FOR DISCONNECTION OF POWER AND DATA MOUNTED ON CABINET.
4. DEMO EXISTING COUNTERTOP FOR REPLACEMENT WITH NEW COUNTERTOP. EXISTING COVE TRIM UNDER FRONT EDGE OF COUNTERTOP TO REMAIN. SEE NOTE #5, SHEET A-101.
5. DEMO EXISTING PAINTED WOOD BASE UNDER BASE CABINETS FOR REPLACEMENT WITH SALVAGED BASE FROM NOTE #2. SEE NOTE #6, SHEET A-101.
6. DEMO EXISTING CARPET.
7. DEMO EXISTING WALL AS INDICATED. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR DEMOLITION OF ANY THERMOSTATS, RECEPTACLES, LIGHT SWITCHES, ETC. MOUNTED IN OR ON WALL BEING DEMOLISHED.
8. TEMPORARILY REMOVE EXISTING MARKER BOARD FOR RECONFIGURATION AND REPAINTING OF WALLS. REINSTALL AT SAME LOCATION AFTER OTHER CONSTRUCTION AND PAINTING IS COMPLETE.
9. DEMO EXISTING VINYL WALLCOVERING. PREP WALL AS REQUIRED FOR PAINTING.
10. EXISTING BUILT-IN BOOKCASES/CABINETS. REMOVE AND SALVAGE EXISTING UPPER SHELVING UNITS. DEMO EXISTING COUNTERTOP. EXISTING BASE CABINETS AND COVE TRIM UNDER FRONT EDGE OF COUNTERTOP TO REMAIN. PROTECT DURING ALL CONSTRUCTION WORK.
11. TEMPORARILY REMOVE EXISTING HAND SANITIZER DISPENSER FOR WALLCOVERING REMOVAL AND PAINTING. REINSTALL AT SAME LOCATION UPON COMPLETION OF PAINTING WORK.
12. DEMO EXISTING DOOR, FRAME AND ALL ASSOCIATED HARDWARE.
13. REMOVE AND SALVAGE EXISTING DOOR SLAB AND HINGES. DEMO EXISTING FRAME, LOCKSET, ELECTRIC STRIKE AND CARD READER. COORDINATE WITH ELECTRICAL DRAWINGS FOR DEMOLITION OF EXISTING CARD READER.
14. DEMO EXISTING COAT HOOKS.
15. REMOVE EXISTING KITCHEN CABINETS (BASE, TALL AND WALL) AND COUNTERTOP. SALVAGE EXISTING SINK BASE CABINET (15A) AND WALL CABINET (15B). SALVAGE KNOBS AND HINGES FROM TALL CABINET (15C) AND OTHER WALL CABINET (15D). DISCARD REMAINDER OF CABINETS AND COUNTERTOP. COORDINATE WITH PLUMBING DRAWINGS FOR DEMOLITION OF PLUMBING FIXTURES, FITTINGS, ETC.
16. REMOVE AND SALVAGE EXISTING SOAP DISPENSER FOR REINSTALLATION PER NEW WORK PLAN.
17. DEMO EXISTING PAPER TOWEL ROLL HOLDER.
18. REMOVE AND SALVAGE EXISTING KEY STORAGE BOX FOR REINSTALLATION PER NEW WORK PLAN.
19. COORDINATE WITH PLUMBING DRAWINGS FOR DEMOLITION AND REPLACEMENT OF TOILET.
20. EXISTING CHAIR RAIL TO REMAIN.

**1 DEMOLITION PLAN**  
Scale: 1/4" = 1'-0"



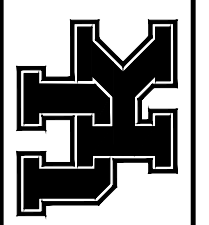
REVISIONS	
NO.	DATE

BUILDING NO: 200  
DESIGNED BY: GWW  
DRAWN BY: GWW  
CHECKED BY: TA  
APPROVED BY: PK  
PROJECT NO: 2771.0  
DATE: 12/14/2023  
DRAWING NUMBER:



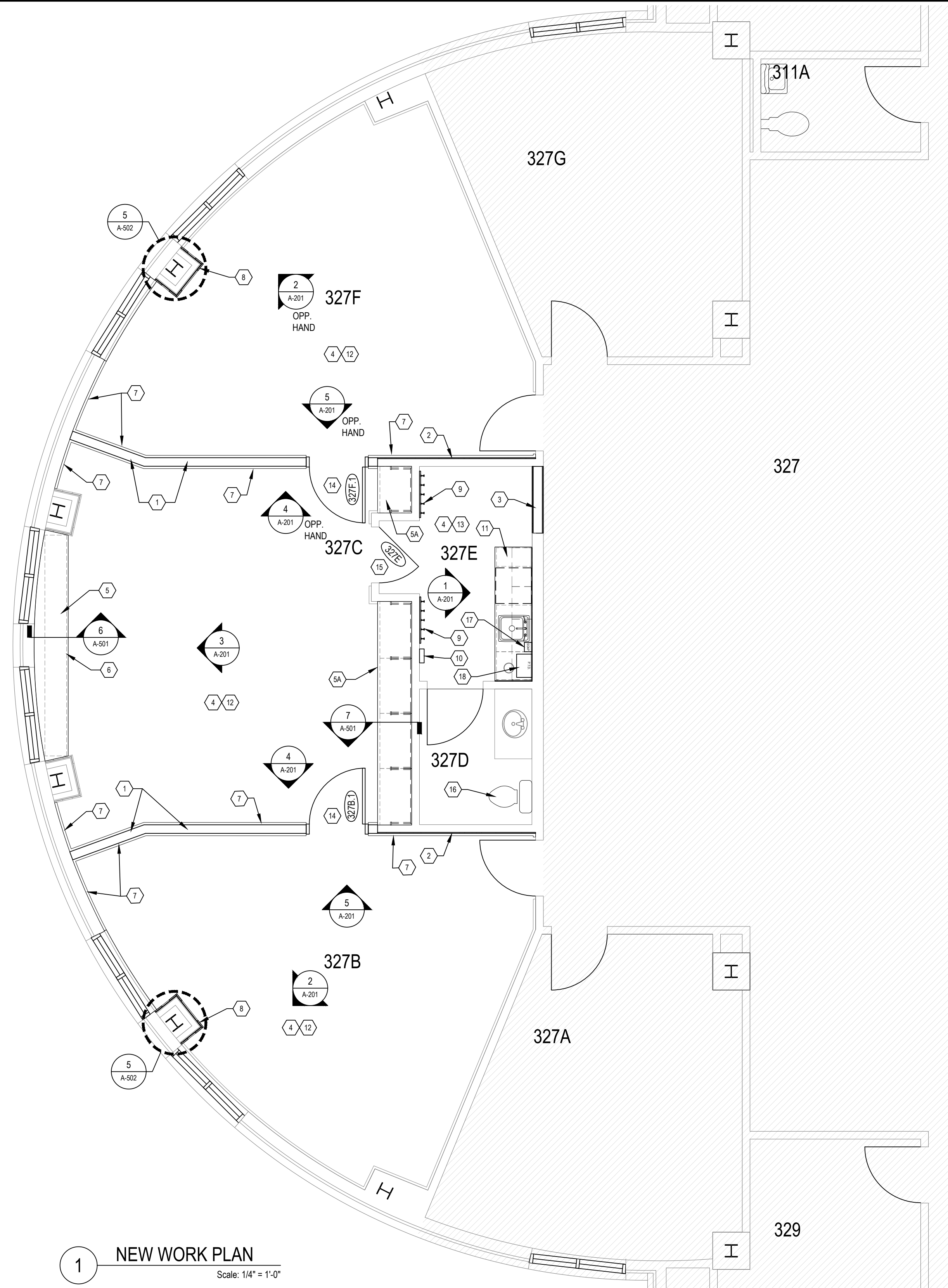
- SHEET NOTES:** (X)
1. DEMO EXISTING LAY-IN ACOUSTICAL PANEL CEILING, INCLUDING ACOUSTICAL PANELS, GRID SYSTEM, HANGER WIRES AND WALL MOLDING. COORDINATE WITH FIRE ALARM VENDOR TO PROVIDE TEMPORARY HEAT DETECTORS TIED INTO FIRE ALARM SYSTEM WHILE CEILING IS REMOVED. COORDINATE WITH MECHANICAL, ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR DEMOLITION WORK RELATED TO HVAC DIFFUSERS AND GRILLES, LIGHT FIXTURES, AND SPRINKLER HEADS.
  2. DEMO EXISTING CAN LIGHTS. COORDINATE WITH ELECTRICAL DRAWINGS.
  3. DEMO EXISTING GYPSUM BOARD SOFFIT AND ASSOCIATED FRAMING.
  4. EXISTING SOFFIT TO REMAIN.
  5. EXISTING CROWN MOLDING TO REMAIN. CUT AND REMOVE WHERE NEW WALL IS BEING CONSTRUCTED.
  6. DEMO EXISTING CROWN MOLDING.

**1 CEILING DEMOLITION PLAN**  
Scale: 1/4" = 1'-0"



REVISIONS	
NO.	DATE

BUILDING NO: 200  
DESIGNED BY: GWW  
DRAWN BY: GWW  
CHECKED BY: TA  
APPROVED BY: PK  
PROJECT NO: 2771.0  
DATE: 12/14/2023  
DRAWING NUMBER:



- SHEET NOTES:** (X)
- 1. CONSTRUCT NEW WALL OF 3/8" METAL STUDS @ 16" O.C WITH ONE LAYER 5/8" GYPSUM BOARD ON CONFERENCE ROOM SIDE AND TWO LAYERS 5/8" GYPSUM BOARD ON OFFICE SIDE WITH 3/8" SOUND ATTENUATION BATT INSULATION BETWEEN WALL TO EXTEND FROM FLOOR TO UNDERSIDE OF DECK ABOVE AND RECEIVE PAINTED FINISH (ONE COAT PRIMER AND TWO FINISH COATS). SEE FINISH SCHEDULE AND LEGEND FOR ADDITIONAL INFO.
  - 2. INSTALL ADDITIONAL LAYER OF 5/8" GYPSUM ON FACE OF EXISTING WALL FROM FLOOR TO DECK ABOVE.
  - 3. INFILL OPENING WHERE DOOR WAS REMOVED USING METAL STUDS, SOUND BATT INSULATION AND GYPSUM BOARD TO MATCH EXISTING CONSTRUCTION.
  - 4. PATCH AND PAINT EXISTING WALLS. SEE FINISH SCHEDULE AND LEGEND, SHEET A-601, FOR ADDITIONAL INFO.
  - 5. FABRICATE AND INSTALL NEW COUNTERTOP ON EXISTING BASE CABINETS. RE-CAULK PERIMETER OF COUNTERTOP TO ADJACENT WALLS (AND WINDOW SILL, WHERE APPLICABLE). WHERE NOTED AS '5A', REINSTALL SALVAGED UPPER SHELVING UNITS AFTER NEW COUNTERTOP IS INSTALLED. FOR BASE CABINETS AT EXTERIOR WINDOW WALL, SEE DETAIL 6/A-501. FOR BASE CABINETS AT BOOKCASES, SEE DETAIL 7/A-501.
  - 6. INSTALL SALVAGED BASE (NOTE #5, SHEET AD-101) ON EXISTING BASE CABINETS.
  - 7. FABRICATE AND INSTALL NEW CHAIR RAIL (SEE DETAIL 3/A-502; FIELD VERIFY DIMENSIONS SHOWN TO MATCH EXISTING CONDITIONS).
  - 8. FABRICATE AND INSTALL NEW WOOD TRIM AROUND EXISTING COLUMN WRAP (SEE DETAIL 5/A-502).
  - 9. FABRICATE AND INSTALL NEW FIVE (5) PEG COAT RACK (SEE DETAIL 1/A-502). MOUNT COAT RACK @ 5'-0" AFF.
  - 10. REINSTALL KEY STORAGE BOX AT THIS LOCATION AT SAME HEIGHT AS ORIGINAL INSTALLATION.
  - 11. FABRICATE AND INSTALL NEW CABINETS (INCLUDING SALVAGED CABINETS PER NOTE #15, SHEET AD-101) COUNTERTOP, AND BACKSPASH PANELS. SEE ELEVATION AND DETAILS AS MARKED. COORDINATE WITH PLUMBING DRAWING FOR NEW SINK, FAUCET, AND ASSOCIATED ITEMS.
  - 12. INSTALL NEW CARPET. SEE FINISH SCHEDULE AND LEGEND, SHEET A-601, FOR ADDITIONAL INFO.
  - 13. INSTALL NEW VINYL PLANK FLOORING. PROVIDE NEW TRANSITION BETWEEN LVT AND NEW CARPET. SEE FINISH SCHEDULE AND LEGEND FOR ADDITIONAL INFO.
  - 14. PROVIDE AND INSTALL NEW DOOR, FRAME AND ALL ASSOCIATED HARDWARE. SEE DOOR AND HARDWARE SCHEDULES, SHEET A-602 FOR ADDITIONAL INFO.
  - 15. PROVIDE AND INSTALL NEW H.M. FRAME. REINSTALL SALVAGED DOOR SLAB AND HINGES INTO NEW FRAME. SEE DOOR AND HARDWARE SCHEDULES, SHEET A-602, FOR ADDITIONAL INFO.
  - 16. COORDINATE WITH PLUMBING DRAWINGS FOR INSTALLATION OF NEW TOILET.
  - 17. REINSTALL SALVAGED SOAP DISPENSER (NOTE #16, SHEET AD-101).
  - 18. COORDINATE WITH UK CUSTODIAL SERVICES TO FURNISH NEW PAPER TOWEL DISPENSER. CONTRACTOR TO INSTALL.

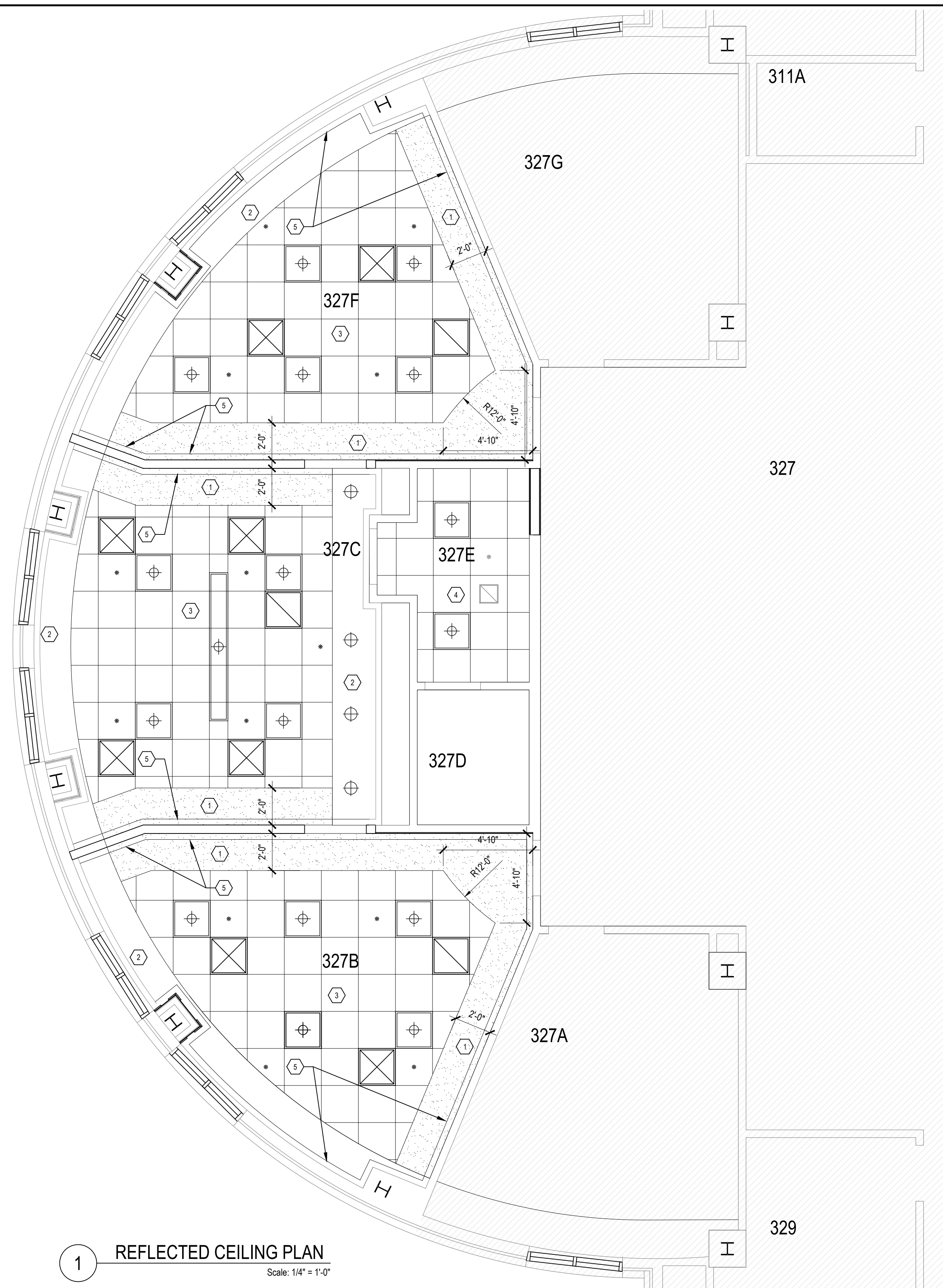
1 NEW WORK PLAN  
Scale: 1/4" = 1'-0"

UNIVERSITY OF KENTUCKY  
FACILITIES ENGINEERING

WETHINGTON ALLIED HEALTH  
SUITE 327 MODIFICATIONS  
ARCHITECTURAL DEMOLITION FLOOR PLAN

REVISIONS	
NO.	DATE

BUILDING NO: 200  
DESIGNED BY: GWW  
DRAWN BY: GWW  
CHECKED BY: TA  
APPROVED BY: PK  
PROJECT NO: 2771.0  
DATE: 12/14/2023  
DRAWING NUMBER: A-101



**SHEET NOTES:** (X)

1. CONSTRUCT NEW SOFFIT (5/8" GYPSUM BOARD ON 3/8" METAL STUD FRAMING) TO MATCH, AND TIE INTO, EXISTING ADJACENT SOFFIT.
2. EXISTING SOFFIT TO REMAIN. REPAINT SOFFIT.
3. INSTALL NEW LAY-IN ACOUSTICAL CEILING SYSTEM, INCLUDING GRID SYSTEM, ACOUSTICAL PANELS, WALL MOLDING, HANGER WIRES, ETC.). SEE FINISH LEGEND, SHEET A-601, FOR MATERIAL INFO. COORDINATE WITH MECHANICAL, ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR HVAC DIFFUSERS AND GRILLES, LIGHT FIXTURES, SPRINKLER HEADS, ETC.
4. EXISTING CEILING TO REMAIN.
5. FABRICATE AND INSTALL NEW CROWN MOLDING. SEE DETAIL 2/A-502. PAINT CROWN MOLDING USING TRIM COLOR (PT-2).

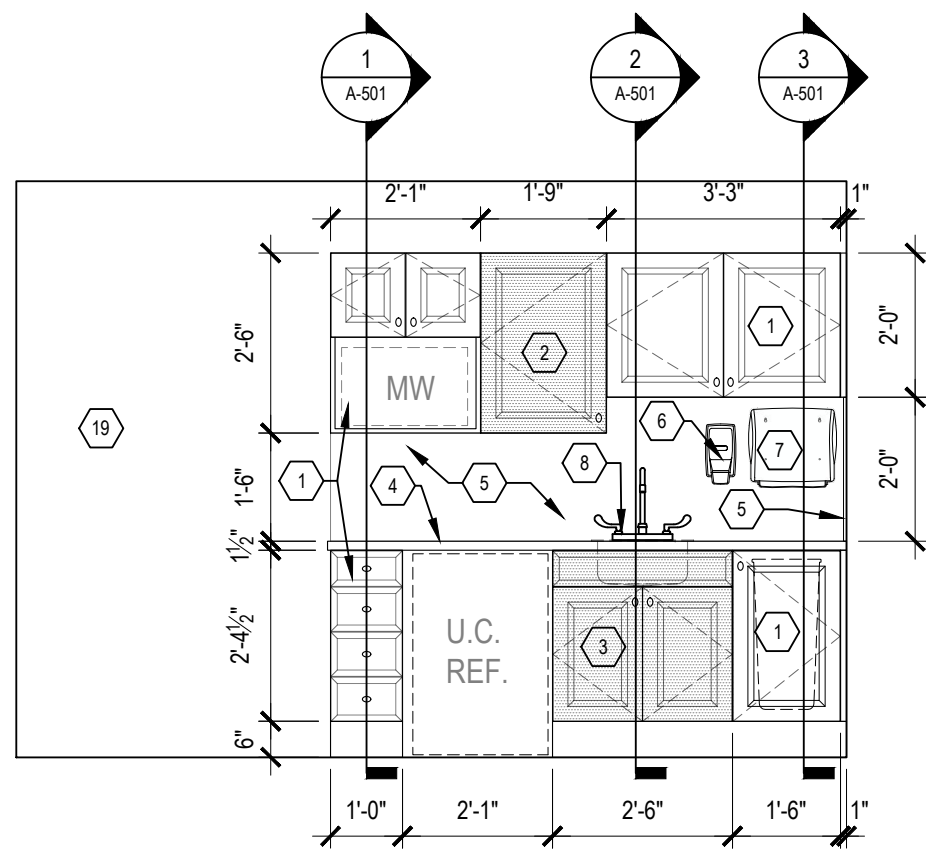
1 REFLECTED CEILING PLAN  
Scale: 1/4" = 1'-0"



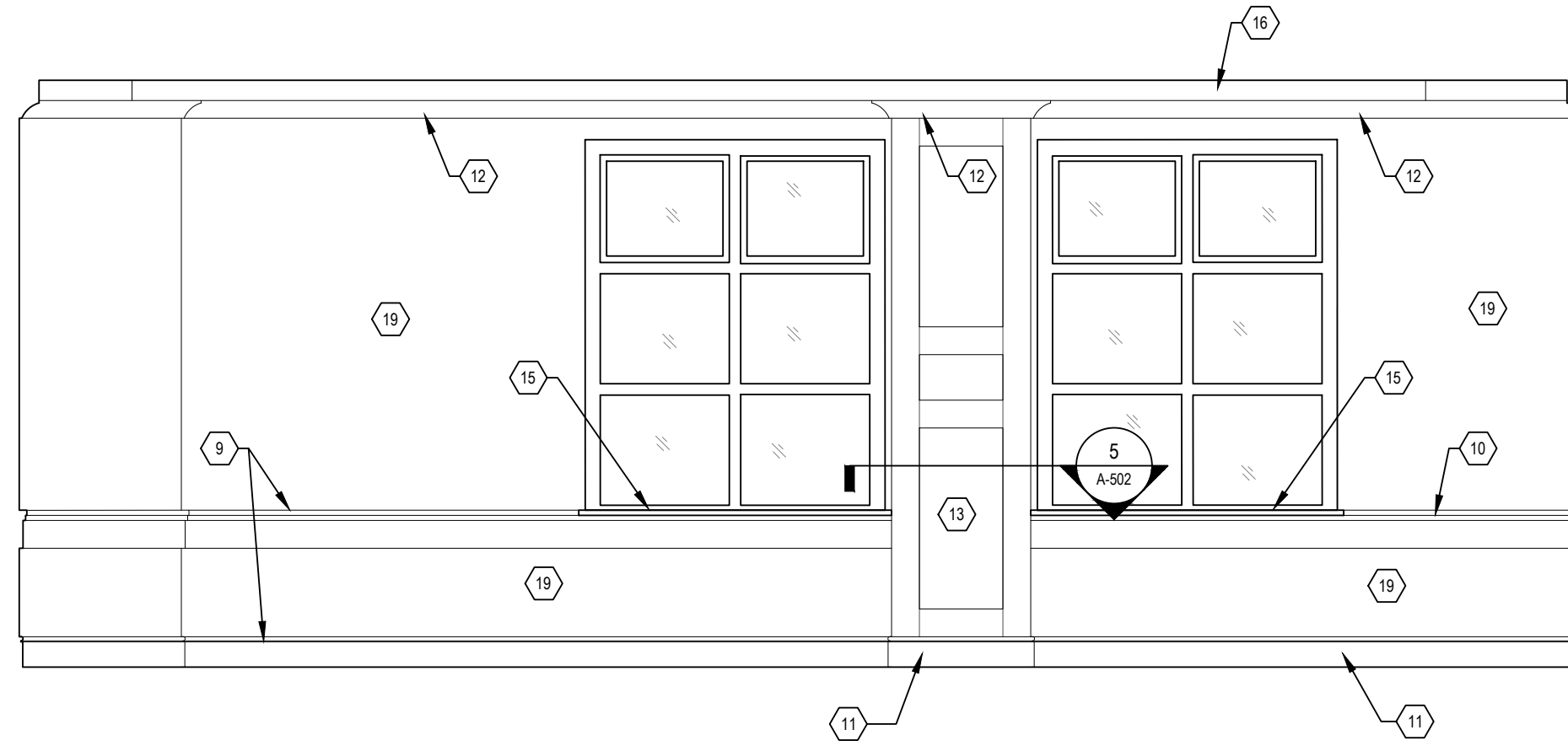
REVISIONS	
NO.	DATE

BUILDING NO: 200  
DESIGNED BY: GWW  
DRAWN BY: GWW  
CHECKED BY: TA  
APPROVED BY: PK  
PROJECT NO: 2771.0  
DATE: 12/14/2023  
DRAWING NUMBER:

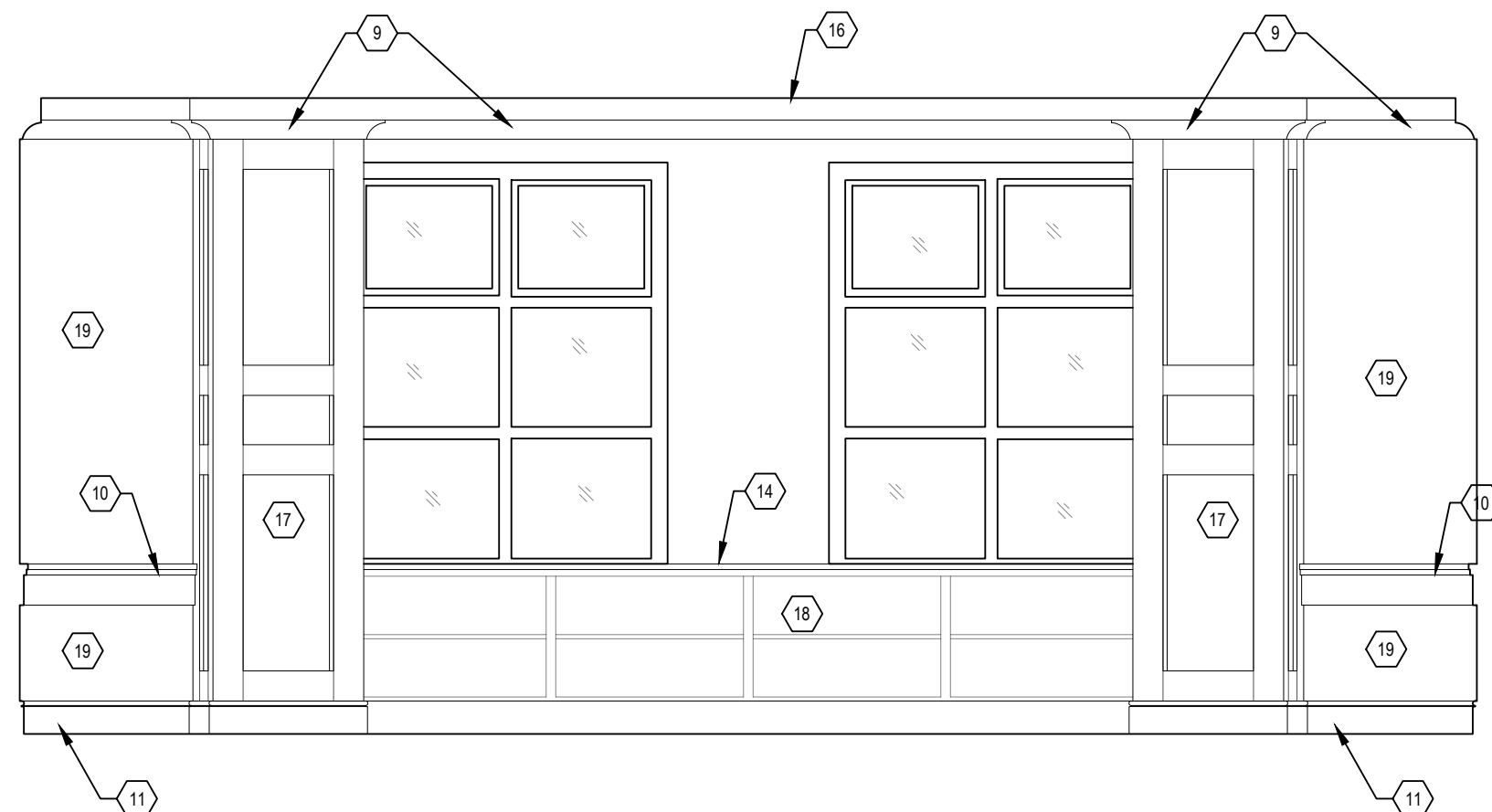




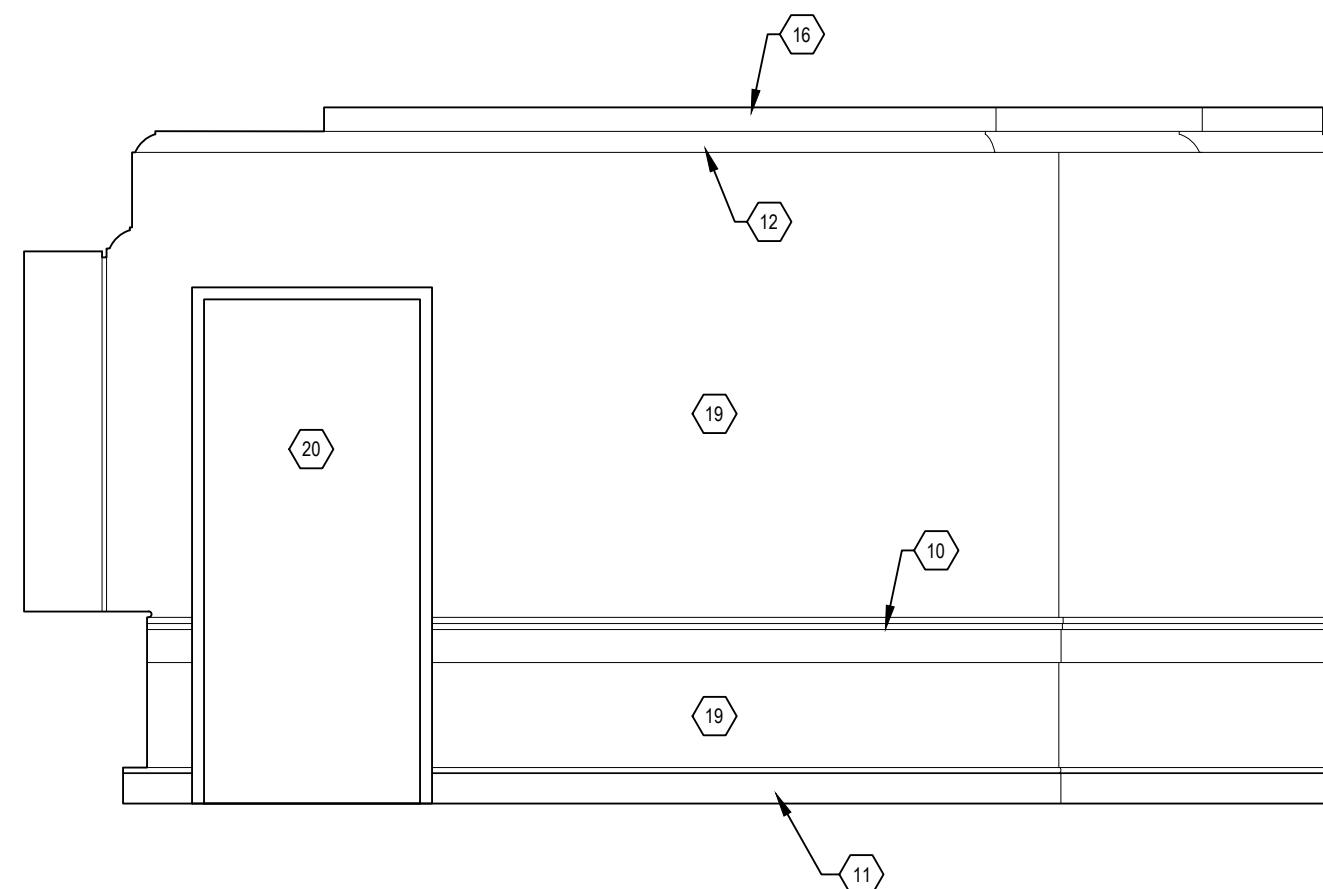
1 ELEVATION  
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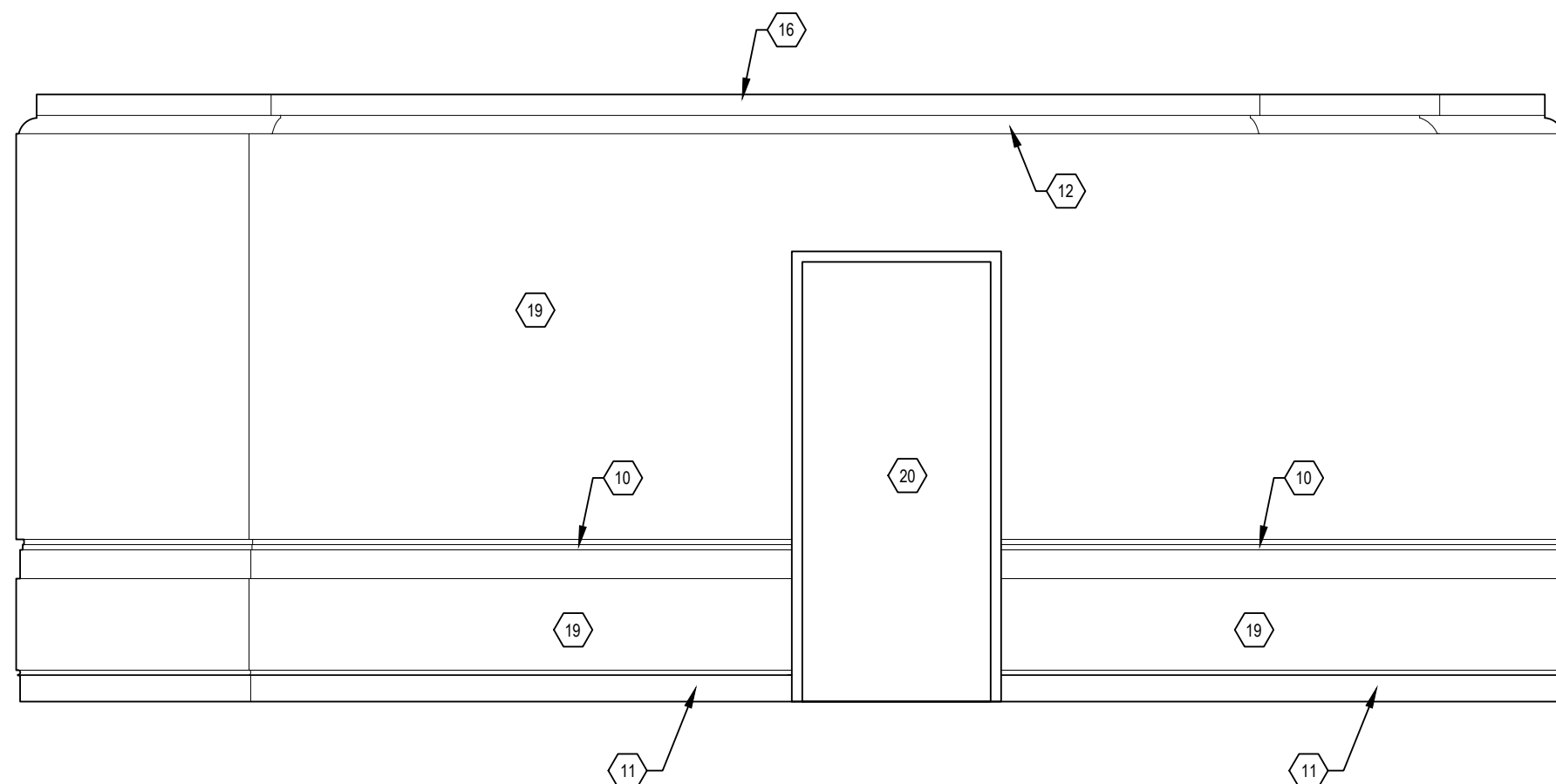
2 ELEVATION  
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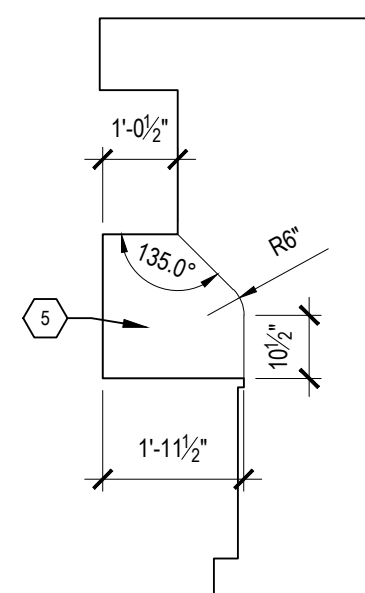
3 ELEVATION  
Scale: 3/8" = 1'-0"



4 ELEVATION  
Scale: 3/8" = 1'-0"

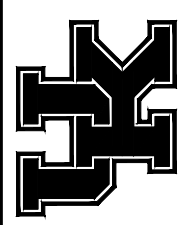


5 ELEVATION  
Scale: 3/8" = 1'-0"



6 ELEVATION  
Scale: 3/8" = 1'-0"

- SHEET NOTES:** (X)
- FABRICATE AND INSTALL NEW CABINET. SEE DETAILS AS INDICATED FOR ADDITIONAL INFO.
  - REINSTALL EXISTING SALVAGED WALL CABINET. REPAINT CABINET TO MATCH NEW CABINETS.
  - REINSTALL EXISTING SALVAGED SINK BASE CABINET. REPAINT CABINET TO MATCH NEW CABINETS.
  - FABRICATE AND INSTALL NEW SOLID SURFACE COUNTERTOP.
  - FABRICATE AND INSTALL NEW 1/2" THICK SOLID SURFACE SPLASH PANEL. SPLASH PANEL TO EXTEND FROM COUNTERTOP TO UNDERSIDE OF WALL CABINETS THE FULL LENGTH OF THE COUNTERTOP AND ON THE RIGHT END. SEE ELEVATION 6, THIS SHEET, FOR DIMENSIONAL INFO OF END PANEL.
  - REINSTALL SALVAGED SOAP DISPENSER @ 3'-10" AFF TO OUTLET.
  - INSTALL NEW CUSTODIAL FURNISHED PAPER TOWEL DISPENSER @ 3'-10" AFF TO DISPENSING SLOT.
  - COORDINATE WITH PLUMBING DRAWINGS FOR NEW SINK AND FAUCET.
  - EXISTING CROWN MOLDING, CHAIR RAIL OR BASE. REPAINT USING TRIM COLOR (PT-2) PER FINISH SCHEDULE AND LEGEND.
  - FABRICATE AND INSTALL NEW CHAIR RAIL. SEE DETAIL 3/A-502. PAINT CHAIR RAIL USING TRIM COLOR (PT-2).
  - FABRICATE AND INSTALL NEW BASE. SEE DETAIL 4/A-502. PAINT BASE USING TRIM COLOR (PT-2).
  - FABRICATE AND INSTALL CROWN MOLDING. SEE DETAIL 2/A-502. PAINT BASE USING TRIM COLOR (PT-2).
  - FABRICATE AND INSTALL NEW WOOD PANELING TRIM ON EXISTING COLUMN. SEE DETAIL AS INDICATED FOR ADDITIONAL INFO. LOCATION OF CROSS RAILS TO MATCH EXISTING ADJACENT COLUMN. PAINT WOOD TRIM USING TRIM COLOR (PT-2).
  - FABRICATE AND INSTALL NEW COUNTERTOP FOR EXISTING BASE CABINETS. SEE DETAIL 6/A-501. NEW COUNTERTOP TO MATCH PLAN SHAPE AND DIMENSIONS OF EXISTING COUNTERTOP BEING DEMOLISHED.
  - FABRICATE AND INSTALL NEW WINDOW SILL. SEE DETAIL 6/A-502. NEW SILL TO MATCH PLAN SHAPE AND DIMENSIONS OF EXISTING SILL BEING DEMOLISHED.
  - EXISTING OR NEW GYPSUM BOARD SOFFIT. PAINT SOFFIT USING WALL COLOR (PT-1).
  - EXISTING WOOD PANELING TRIM. REPAINT USING TRIM COLOR (PT-2).
  - EXISTING BASE CABINETS. REPAINT ALL EXPOSED FACES USING TRIM COLOR (PT-2).
  - REPAINT ALL WALLS USING WALL COLOR (PT-1).
  - NEW DOOR AND FRAME. PAINT FRAME USING TRIM COLOR (PT-2).

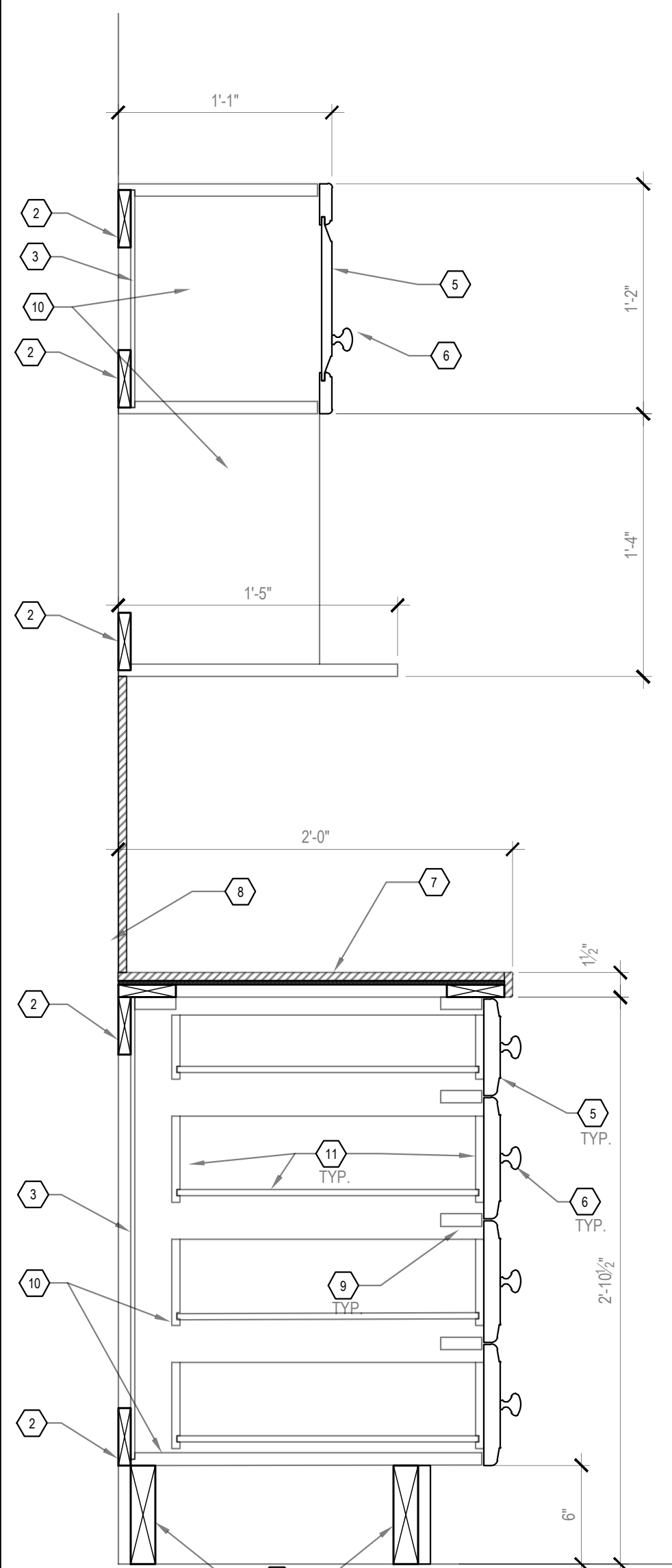


REVISIONS	
NO.	DATE

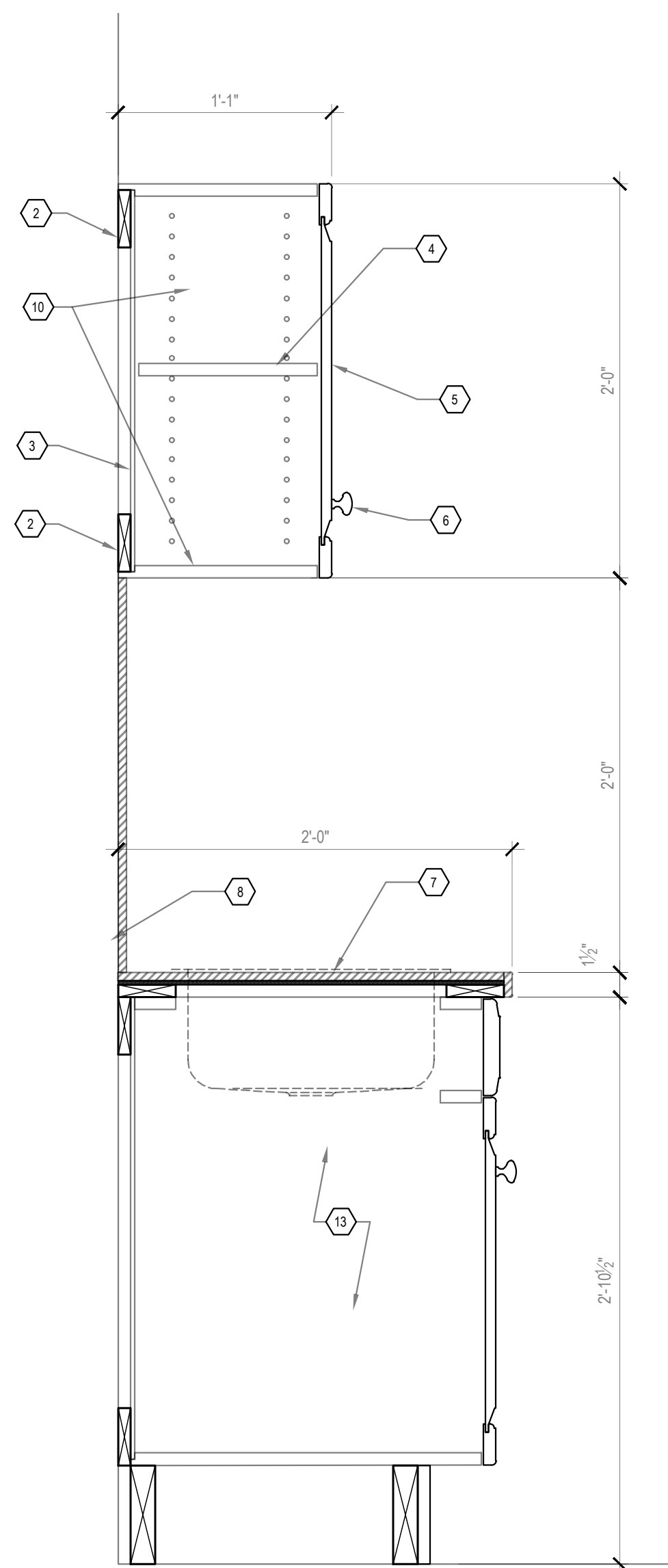
BUILDING NO: 200  
DESIGNED BY: GWW  
DRAWN BY: GWW  
CHECKED BY: TA  
APPROVED BY: PK  
PROJECT NO: 2771.0  
DATE: 12/14/2023  
DRAWING NUMBER

**SHEET NOTES:** (X)

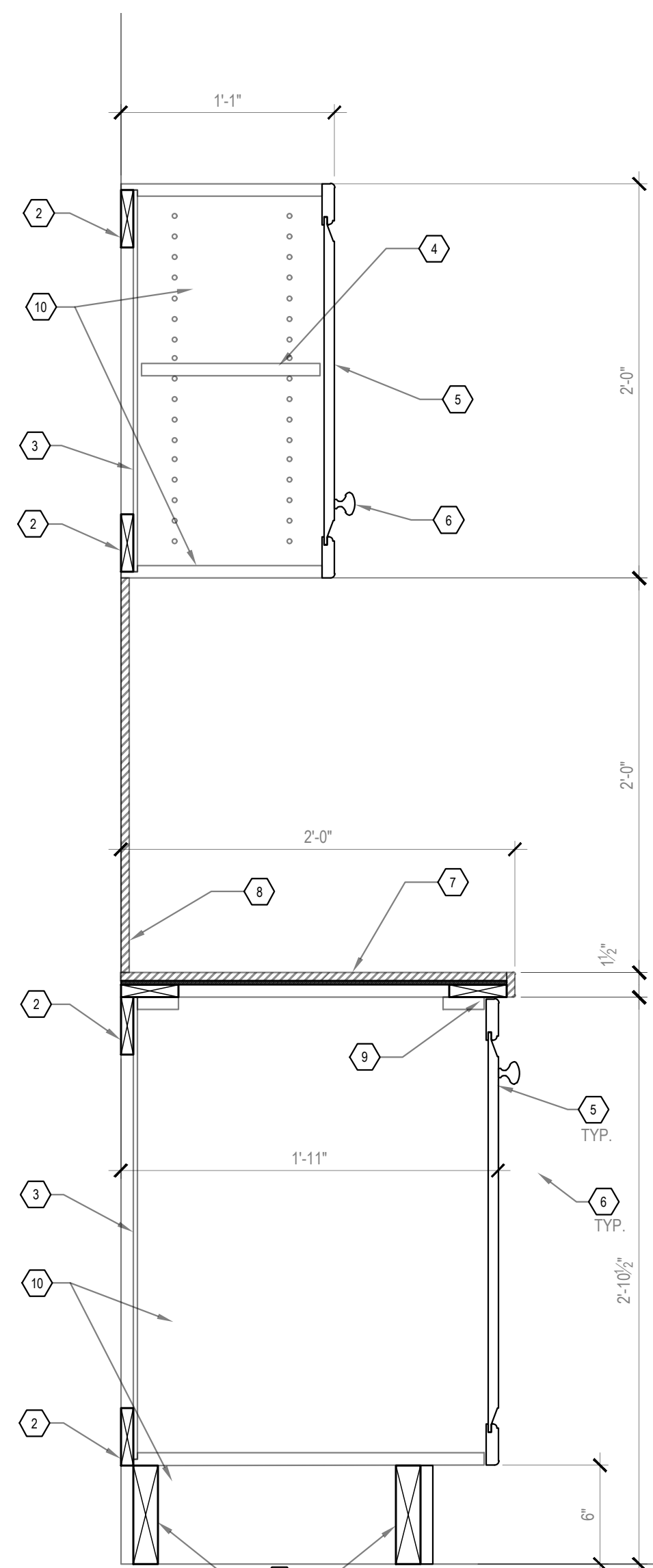
1. 2X WOOD BASE FRAME WITH 3/4" THICK SOLID WOOD (POPLAR) FACE TRIM (PAINTED USING TRIM COLOR PT-2).
2. SOLID 1X WOOD BLOCKING
3. 1/4" THICK BACK PANEL WITH WHITE MELAMINE FINISH ON INTERIOR SIDE.
4. 3/4" THICK ADJUSTABLE SHELVING WITH WHITE MELAMINE FINISH ON ALL SURFACES. PROVIDE PEGS AND HOLES (SPACING - 1/4").
5. DOOR OR DRAWER FRONT TO BE SOLID WOOD (POPLAR), PAINT GRADE (USING TRIM COLOR PT-2). SEE FINISH LEGEND ON SHEET A-601 FOR COLORS. SEE DETAIL 4/A-501 FOR DRAWER FRONT INFO AND DETAIL 5/A-501 FOR DOOR CONSTRUCTION INFO. REINSTALL SALVAGED HINGES FROM BASE CABINETS BEING DEMOLISHED
6. REINSTALL DOOR/DRAWER KNOB SALVAGED FROM CABINETS BEING DEMOLISHED
7. COUNTERTOP TO BE CONSTRUCTED OF 1/2" THICK SOLID SURFACE MATERIAL ON 1/4" PLYWOOD BACKING AND 1X4 FRAME (TOTAL THICKNESS: 1 1/2").
8. 1/2" SOLID SURFACE MATERIAL SPLASH PANEL (FULL WIDTH OF CABINETS; HEIGHT FROM COUNTERTOP TO UNDERSIDE OF WALL CABINETS). SEE FINISH LEGEND, SHEET A-601, FOR MATERIAL INFO.
9. 3/4" X 1 1/2" WOOD SUPPORT BLOCK WITH PLASTIC LAMINATE (PL-1) ON FRONT EDGE.
10. CABINET SIDES, TOP AND BOTTOM TO BE 3/4" THICK PLYWOOD (OR PARTICLE BOARD) WITH WHITE MELAMINE FINISH ON ALL EXPOSED SURFACES.
11. DRAWER BODY OF 1/2" BIRCH PLYWOOD SIDES AND 3/8" BIRCH PLYWOOD BOTTOM WITH CLEAR FINISH ON ALL SURFACES WITH HEAVY DUTY GLIDES.
12. NEW SINK PER PLUMBING DRAWINGS.
13. SALVAGED SINK BASE CABINET. REPAINT DOOR FACES AND FALSE FRONT USING TRIM COLOR (PT-2).
14. NEW COUNTERTOP TO BE CONSTRUCTED OF 1/2" THICK SOLID SURFACE MATERIAL ON 1/4" PLYWOOD BACKING (TOTAL THICKNESS: 3/4") WITH BUILT-UP ROUNDED FRONT EDGE



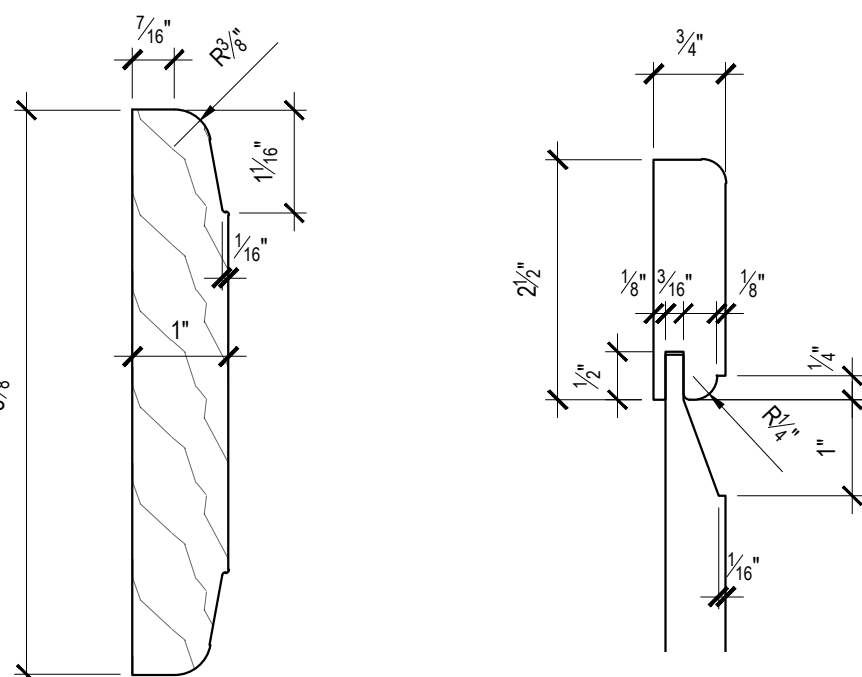
**1** DETAIL  
Scale: 1-1/2" = 1'-0"



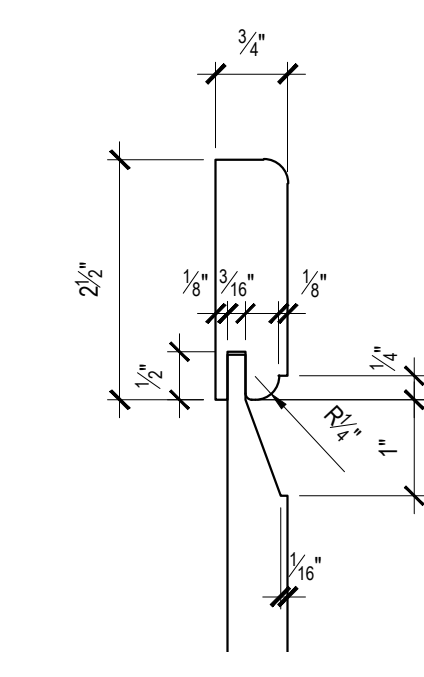
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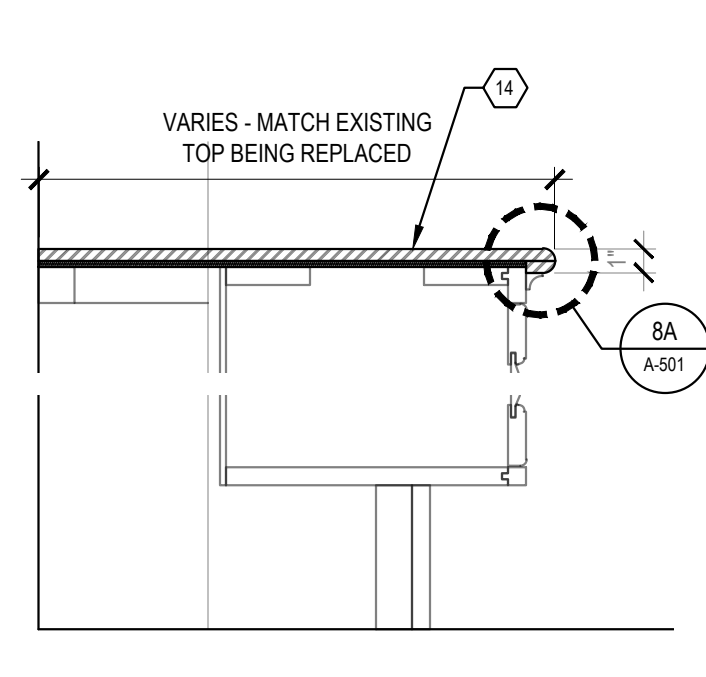
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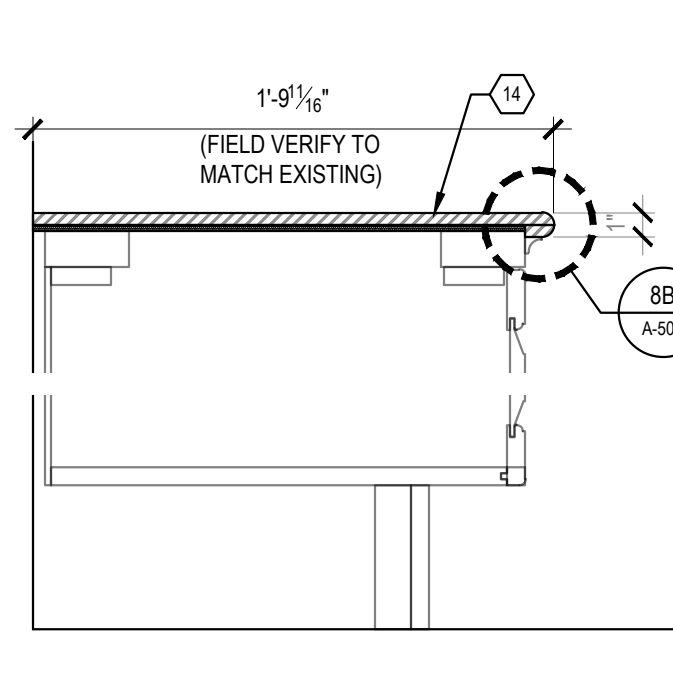
**4** DETAIL  
Scale: HALF FULL SIZE



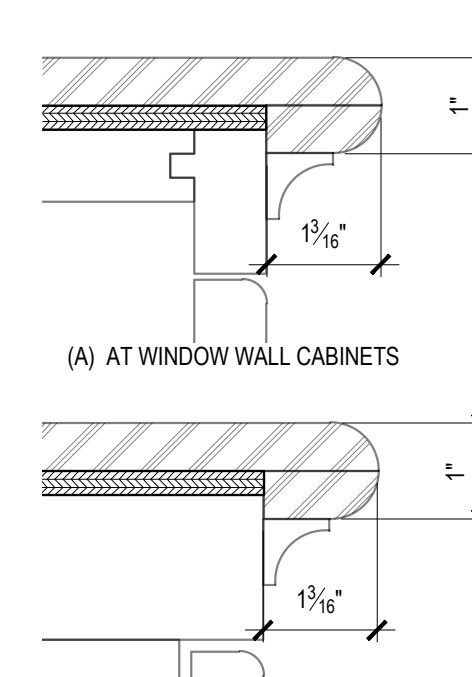
**5** DETAIL  
Scale: HALF FULL SIZE



**6** DETAIL  
Scale: 1-1/2" = 1'-0"



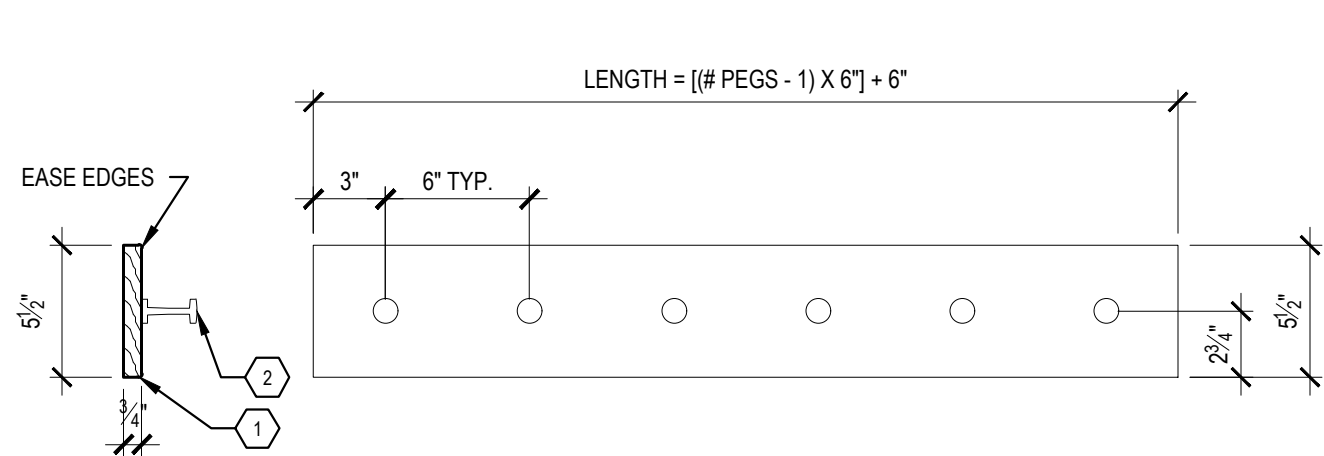
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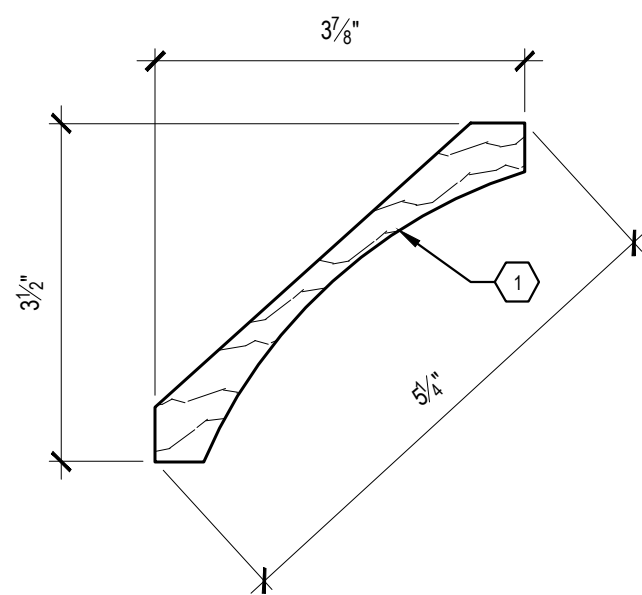
**8** DETAIL  
Scale: HALF FULL SIZE

REVISIONS	
NO.	DATE

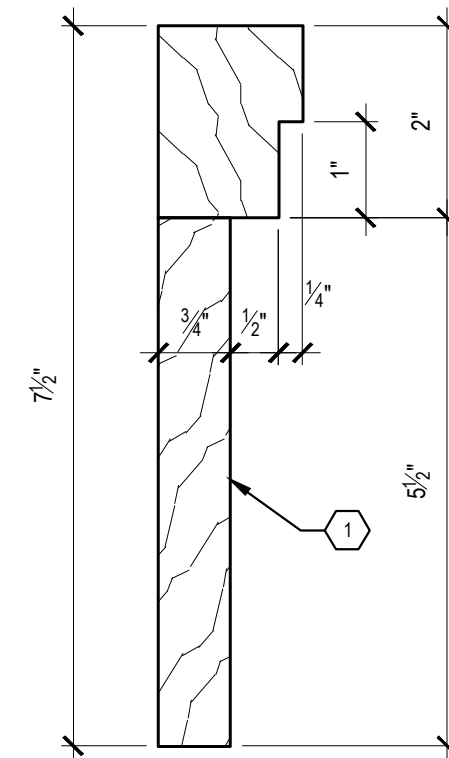
BUILDING NO:	200
DESIGNED BY:	GWW
DRAWN BY:	GWW
CHECKED BY:	TA
APPROVED BY:	PK
PROJECT NO.:	2771.0
DATE:	12/14/2023
DRAWING NUMBER:	



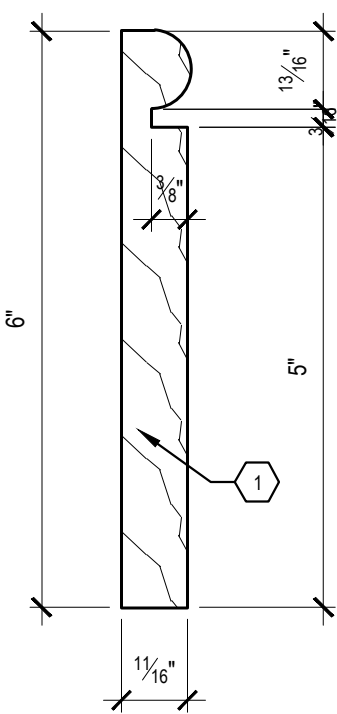
1 **DETAIL - COAT RACK**  
Scale: 1-1/2" = 1'-0"



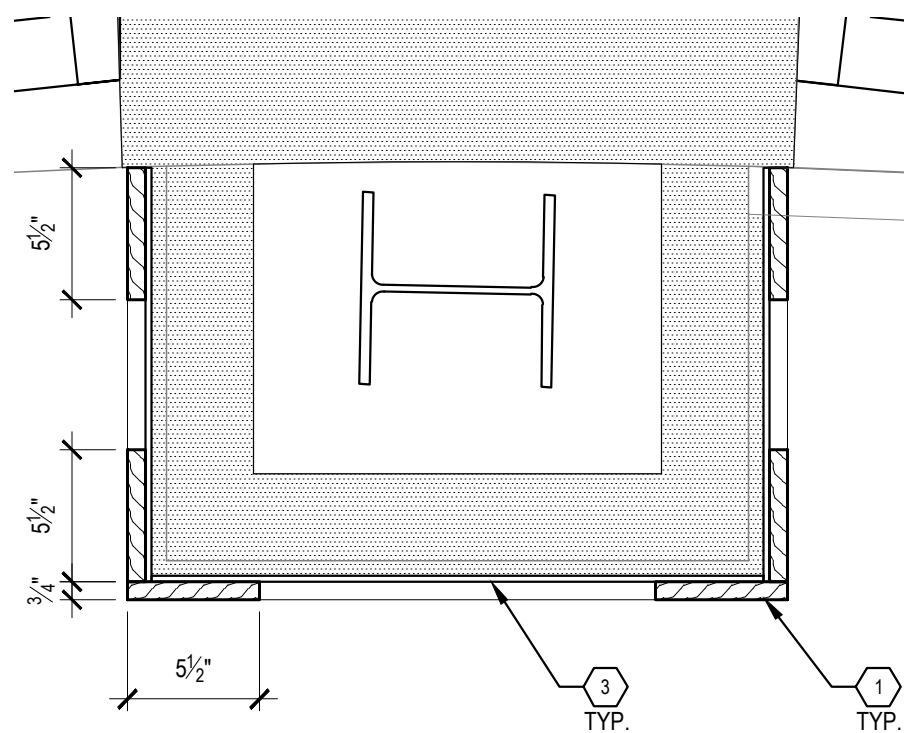
2 **DETAIL - CROWN MOLDING**  
Scale: HALF FULL SIZE



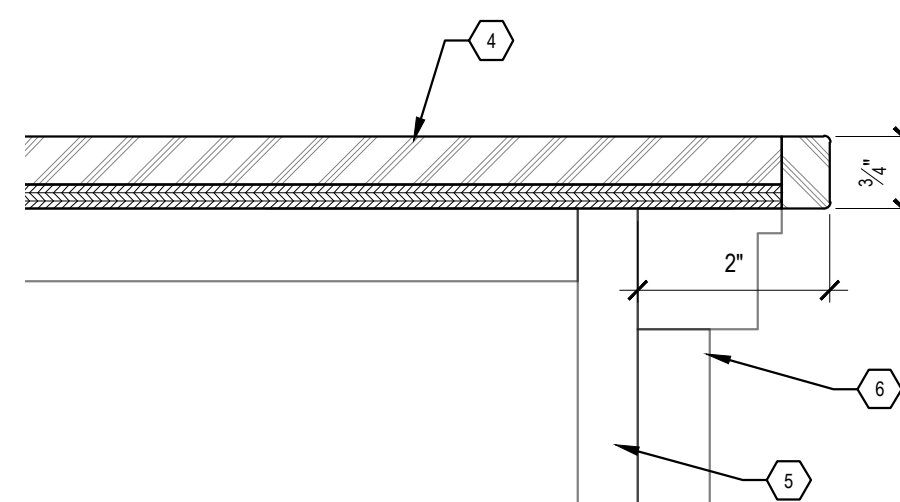
3 **DETAIL - CHAIR RAIL**  
Scale: HALF FULL SIZE



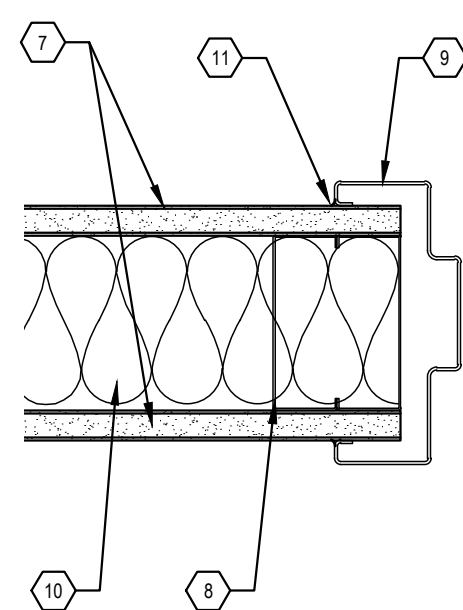
4 **DETAIL - BASEBOARD**  
Scale: HALF FULL SIZE



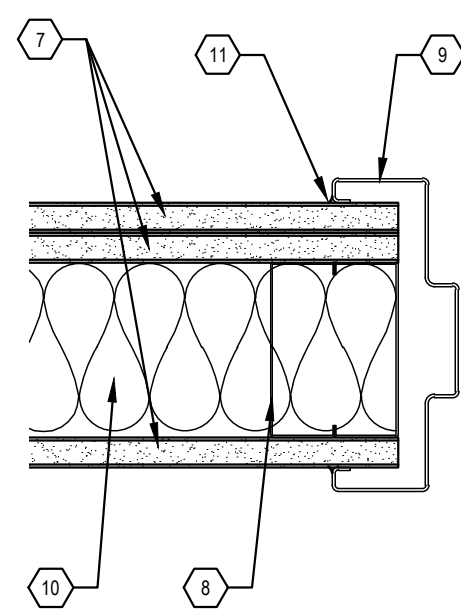
5 **DETAIL - COLUMN**  
Scale: 1-1/2" = 1'-0"



6 **DETAIL - WINDOW SILL**  
Scale: HALF FULL SIZE



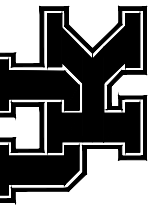
7 **DETAIL**  
Scale: 3" = 1'-0"



8 **DETAIL**  
Scale: 3" = 1'-0"

**SHEET NOTES:** (X)

1. CLEAR POPLAR, PRIMED TO RECEIVE PAINTED FINISH
2. COAT PEG - ROCKWOOD MFG. #RM812 X US26D, OR APPROVED EQUIVALENT
3. 1/4" BIRCH PLYWOOD APPLIED OVER FACE OF EXISTING COLUMN WRAP, PRIMED TO RECEIVE PAINTED FINISH
4. WINDOW SILL CONSTRUCTED OF 1/2" SOLID SURFACE MATERIAL ON 1/4" PLYWOOD BACKING
5. EXISTING WALL
6. EXISTING OR NEW CHAIR RA
7. 5/8" GYPSUM BOARD
8. 3/8" METAL STUDS
9. 16 GA. H.M. DOOR FRAME
10. SOUND ATTENUATION BATT INSULATION
11. CAULK, TYP.



REVISIONS	
NO.	DATE

BUILDING NO: 200  
 DESIGNED BY: GWW  
 DRAWN BY: GWW  
 CHECKED BY: TA  
 APPROVED BY: PK  
 PROJECT NO: 2771.0  
 DATE: 12/14/2023  
 DRAWING NUMBER

## ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	BASE				FLOOR				WALLS			CEILING			CLG.. HT.	REMARKS
		4" VINYL	6" WOOD	EXISTING	NONE	BROADLOOM CARPET	VINYL PLANK (LVT)	EXISTING		PAIN	WALL TILE	EXISTING	ACOUSTICAL CEILING PANEL	METAL CEILING PANEL	GYPSUM BOARD		
327B	OFFICE	●	●			●						●	●			----	1
327C	CONFERENCE	●	●			●						●	●			----	1
327D	TOILET		●				●			●				●		----	
327E	KITCHENETTE	●					●							●		----	
327F	OFFICE	●	●			●						●	●			----	1

REMARKS	
1	MATCH EXISTING SOFFIT AND ACOUSTICAL CEILING HEIGHT

## FINISH LEGEND

SOLID SURFACE FABRICATIONS						
MARK	MFR.	MFR MODEL #	DESCRIPTION	COLOR	SIZE	
SS-1	FORMICA	'EVERFORM'	SOLID SURFACE MATERIAL	#782 'LUNA WEATHER'	½" THICK	4
SS-2	FORMICA	'EVERFORM'	SOLID SURFACE MATERIAL	#757 'LUNA SAND'	½" THICK	5
ACOUSTICAL CEILING						
MARK	MFR.	MFR MODEL #	DESCRIPTION	COLOR	SIZE	NOTES
ACP-1	USG	'ECLIPSE' #76775	SHADOWLINE TAPERED EDGE ACOUSTICAL PANEL	WHITE	24" X 24"	
ACP-1	USG	DONN 'DX'	GRID SYSTEM	WHITE	15/16" FACE	
CARPET						
MARK	MFR.	MFR MODEL #	DESCRIPTION	COLOR	SIZE	
CPT-1	SHAW COMMERCIAL	EDITION 5A228	BROADLOOM CARPET	64760 'HEARTH'	12' WIDE	1
VINYL PLANK						
MARK	MFR.	MFR MODEL #	DESCRIPTION	COLOR	SIZE	
LVT-1	SHAW	0648V 'SOLITUDE'	VINYL PLANK FLOORING	48761 'UMBER'	6" X 48"	2
LVT-1A	SHAW	143VS	1" REDUCER TRANSITION	00054 'DARK'	1" X 36"	3
PAINT						
MARK	MFR.	MFR MODEL #	DESCRIPTION	COLOR	SIZE	
PT-1	SHERWIN-WILLIAMS	SW6071	WALL FIELD PAINT (EGGSHELL)	POPULAR GRAY		
PT-2	SHERWIN-WILLIAMS	SW7636	TRIM PAINT (SEMI-GLOSS)	ORIGAMI WHITE		
NOTES:						
1	DIRECT GLUE INSTALLATION					
2	'STAGGER' INSTALLATION					
3	TRANSITION BETWEEN CARPET AND LVT; CENTER UNDER EDGE OF DOOR					
4	USE FOR COUNTERTOPS AND WINDOW SILLS. SEE COUNTERTOP DETAIL FOR THICKNESS OF SOLID SURFACE MATERIAL AND SUBSTRATE.					
5	USE FOR BACKSPLASH PANELS IN KITCHENETTE					

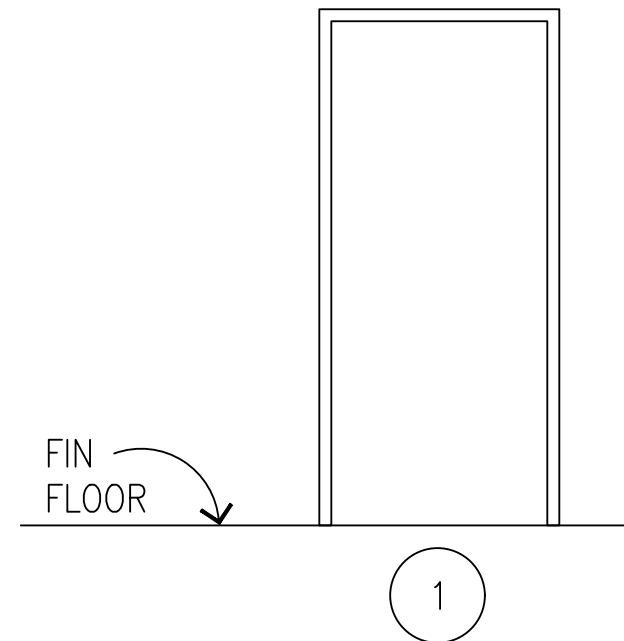
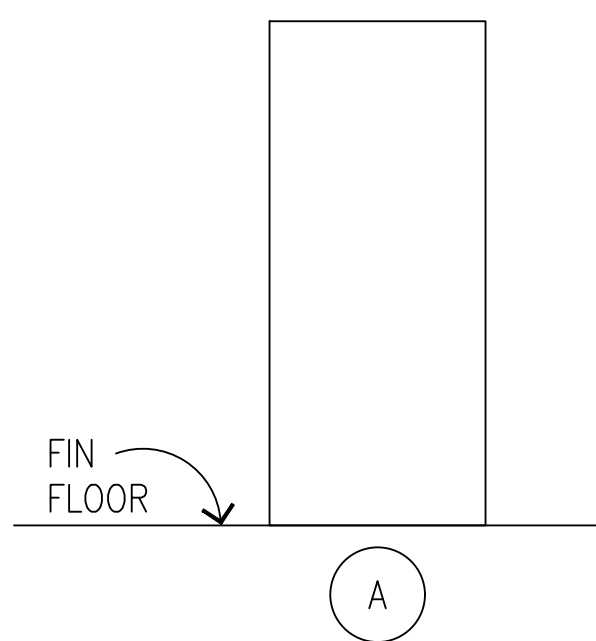


REVISIONS	
NO.	DATE

BUILDING NO: 200  
 DESIGNED BY: GWW  
 DRAWN BY: GWW  
 CHECKED BY: TA  
 APPROVED BY: PK  
 PROJECT NO: 2771.0  
 DATE: 12/14/2023  
 DRAWING NUMBER:

## DOOR AND FRAME SCHEDULE

DOOR MARK	DOOR LOCATION	DOOR INFORMATION					FRAME INFORMATION					HARDWARE SET	FIRE RATING	REMARKS
		SIZE			MATL.	STYLE	MATL.	TYPE	DETAIL					
		WIDTH	HEIGHT	THICK					HEAD	JAMB	OTHER			
327B.1	OFFICE	3'-0"	7'-0"	1 3/4"	S.C. WOOD	A	HM	1	8/A-502	8/A-502		1	---	1
327E	KITCHENETTE	3'-0"	7'-0"	1 3/4"	EXIST.	--	HM	1	7/A-502	7/A-502		2	---	2
327F.1	OFFICE	3'-0"	7'-0"	1 3/4"	S.C. WOOD	A	HM	1	8/A-502	8/A-502		1	---	1
<b>REMARKS</b>														
1	NEW WOOD DOORS AND FRAMES TO MATCH EXISTING													
2	REUSE EXISTING DOOR SLAB													

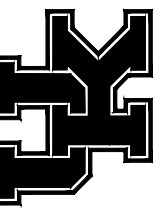


**DOOR STYLES**  
Scale: 3/8" = 1'-0"

**FRAME TYPES**  
Scale: 3/8" = 1'-0"

## DOOR HARDWARE SETS SCHEDULE

HARDWARE SET #1					
QTY.	DESCRIPTION	MANUFACTURER	MODEL	FINISH	NOTES
3	HINGE	MCKINNEY	TA2714; 4 1/2" X 4 1/2"	US32D	
1	LOCKSET	YALE	MOR 8809FL X 5197 X HAND AS INDICATED X 1 3/4" X V11	626	1
1	AUTO DOOR BOTTOM	NATIONAL GUARD PROD.	225WH	----	
1	PERIMETER SEAL SET	NATIONAL GUARD PROD.	5075CL	----	2
1	CORNER PADS (SET OF 2)	NATIONAL GUARD PROD.	60FP	----	
1	ELEC. STRIKE	HES	1006CLB-F-LBSM	630	3
1	WALL STOP	ROCKWOOD MFG.	409	US32D	
3	SILENCERS	ROCKWOOD MFG.	609	-----	
HARDWARE SET #2					
QTY.	DESCRIPTION	MANUFACTURER	MODEL	FINISH	NOTES
3	HINGE				3
1	LOCKSET	YALE	MOR 8801 X LH X 1 3/4"	626	
3	SILENCERS	ROCKWOOD MFG.	609	-----	
NOTES:					
1	COORDINATE WITH UK KEY SHOP FOR KEY CORE				
2	SET OF SEALS INCLUDES JAMBS AND HEAD				
3	ELECTRIC STRIKE TO BE TIED INTO FIRE ALARM SYSTEM TO RELEASE UPON ALARM ACTIVATION				
4	REUSE SALVAGED HINGES FROM EXISTING DOOR				



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**GENERAL NOTES:**

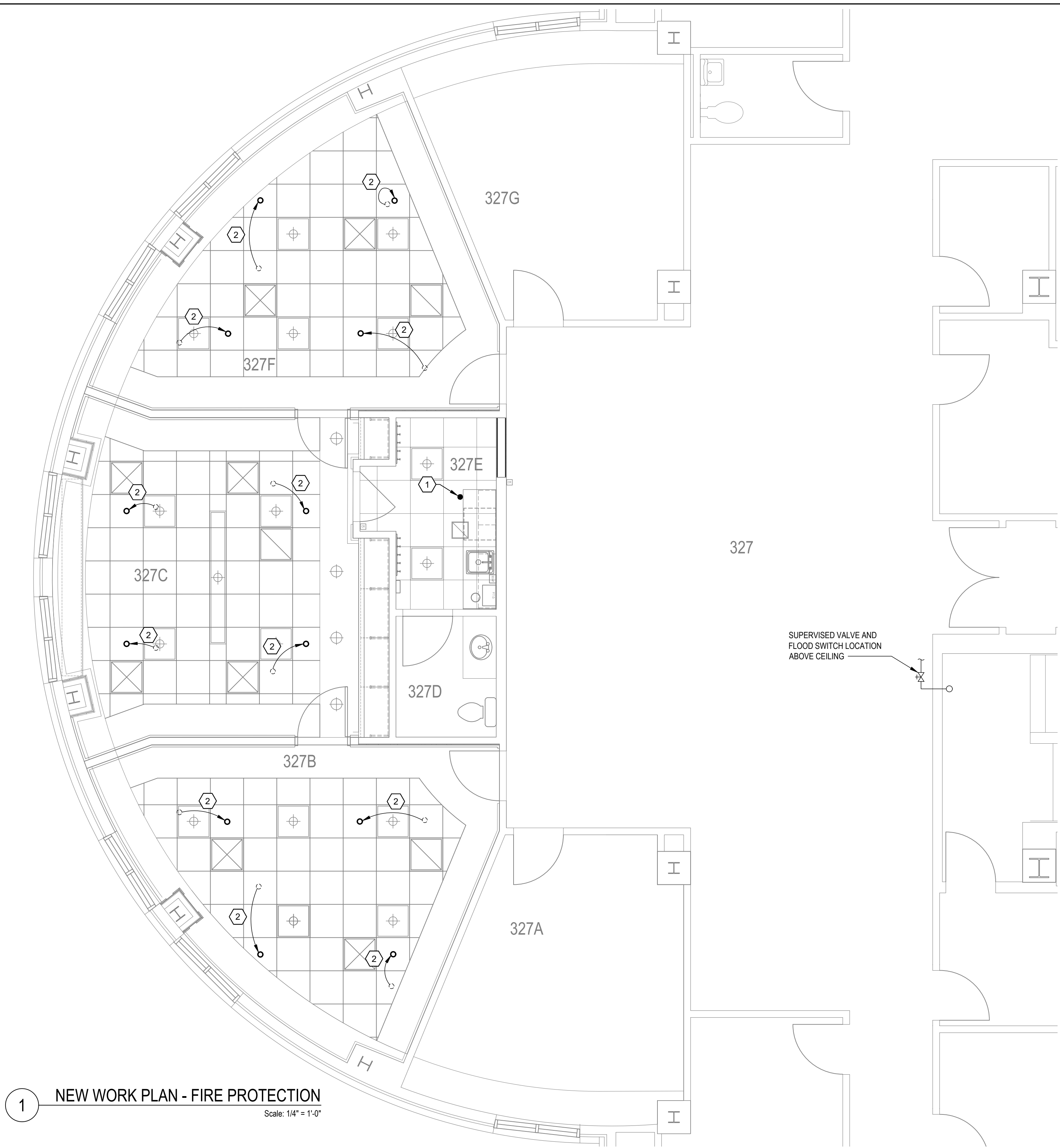
- CONTRACTOR SHALL SECURE SERVICES OF A CERTIFIED SPRINKLER CONTRACTOR WHO WILL INSTALL NEW OR MODIFY EXISTING SPRINKLER PIPING AND HEADS AS NECESSARY. VENDOR SHALL SUPPLY CERTIFICATION THAT ALL MODIFICATIONS MEET ALL APPLICABLE CODES.
- THE CONTRACTOR MUST KEEP A RECORD SET OF CONSTRUCTION DOCUMENTS ON SITE AT ALL TIMES. ALL DISCREPANCIES IN THE EXISTING CONDITIONS, ALTERNATE MATERIALS AND METHODS OF CONSTRUCTION, AND FIELD REVISIONS AND MODIFICATIONS SHALL BE RECORDED ON THESE FIELD DOCUMENTS.
- PROVIDE ALL WORK NECESSARY FOR THE COMPLETE FIRE PROTECTION SYSTEM AS INDICATED AND NOTED, INCLUDING ALL CONNECTIONS TO EXISTING WORK, NEW PIPING AND ACCESSORIES AND FINAL FINISH MOUNTING OF SPRINKLERS IN LOCATIONS INDICATED AND TESTING, ALL AS REQUIRED TO MEET ALL PROVISIONS OF NFPA-13, NFPA-14, NFPA-20 AND THE STATE BUILDING CODE. WORK WILL BE PERFORMED BY A LICENSED SPRINKLER CONTRACTOR.
- WHERE APPLICABLE, EXISTING SPRINKLERS REQUIRING MODIFICATION MUST COMPLY WITH CODE AND BE PERFORMED BY A CERTIFIED FIRE PROTECTION CONTRACTOR. CONTRACTOR SHALL SECURE SERVICES OF A CERTIFIED AND UNIVERSITY APPROVED, UNIT PRICE FIRE PROTECTION CONTRACTOR WHO WILL INSTALL NEW OR MODIFY EXISTING SPRINKLER PIPING AND SPRINKLERS. FIRE PROTECTION CONTRACTOR SHALL SUPPLY CERTIFICATION THAT ALL MODIFICATIONS ARE COMPLETE AND MEET ALL APPLICABLE CODE REQUIREMENTS.
- ALL FIRE PROTECTION COMPONENTS, INCLUDING BUT NOT LIMITED TO PUMPS, VALVES, PIPE & FITTINGS, CONTROL SYSTEMS AND TRIM WILL BE UL AND/OR FM LISTED FOR FIRE SERVICE, WHERE SUCH LISTING EXISTS.
- PROVIDE LISTED AIR RELEASE FOR ALL TRAPPED RUNS OF FIRE PROTECTION PIPING.
- ALL FERROUS FIRE PROTECTION PIPING WILL BE PAINTED PER 099100 WHERE EXPOSED TO VIEW; SHADE TO BE APPROVED BY ARCHITECT.
- FIRE PROTECTION PIPING CONNECTIONS MAY BE WELDED, FLANGED, SCREWED OR GROOVE-JOINT TYPE PER NFPA 13, 14, 20 AND THE SPECIFICATIONS FOR THIS PROJECT. NO SCREWED PIPING LARGER THAN 2 INCHES. PITCH ALL PIPING TO DRAIN.
- THE USE OF FLEXIBLE DROPS IS PERMITTED, BUT ALL SUCH DROPS MUST BE INSTALLED IN ACCORDANCE WITH THEIR UL LISTINGS AND/OR FM APPROVALS. FLEXIBLE DROPS SHALL BE OF THE BRAIDED, STAINLESS STEEL HOSE STYLE. FLEXIBLE DROPS EMPLOYING CORRUGATED STEEL TUBING WILL NOT BE PERMITTED. INCLUDE MOUNTING BRACKET FOR CONNECTION TO CEILING GRID. SIZE MUST BE EQUAL TO PIPE SIZE FOR SPRINKLER HEAD.
- CONTRACTOR WILL PROVIDE HYDRAULICALLY-DESIGNED PIPING SYSTEMS AND WILL MODIFY LOCATION OF SPRINKLER HEADS ONLY AS REQUIRED TO CONFORM WITH CODE AND PREVENT BLOCKAGE OF PATTERN. PROVIDE SPRINKLERS AS SHOWN UNLESS IN VIOLATION OF CODE.
- COORDINATE ALL WORK. DO NOT MOUNT SPRINKLER HEADS OR HANG PIPING SUCH AS TO BLOCK ACCESS TO HVAC OR ELECTRICAL EQUIPMENT OR THE CHANGEOUT OF EQUIPMENT WHEN NECESSARY.
- DAMAGE TO ANY SPRINKLER OR FIRE PROTECTION PIPE DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR RESPONSIBLE FOR DAMAGE. UNDER NO CIRCUMSTANCES SHALL A DAMAGED SPRINKLER, NEW OR REUSED, BE INSTALLED ON THIS PROJECT.
- FINAL SPRINKLER LOCATIONS SHALL BE REVIEWED BY CERTIFIED SPRINKLER CONTRACTOR AND ADJUSTED AS NECESSARY TO PROVIDE COMPLETE COVERAGE OF SPACE.

**SHEET NOTES:** (X)

- EXISTING PENDENT SPRINKLER TO REMAIN.
- RELOCATE EXISTING UPRIGHT SPRINKLER AS NEEDED TO COVER ADDITIONAL AREA CREATED WITH NEW WALL.

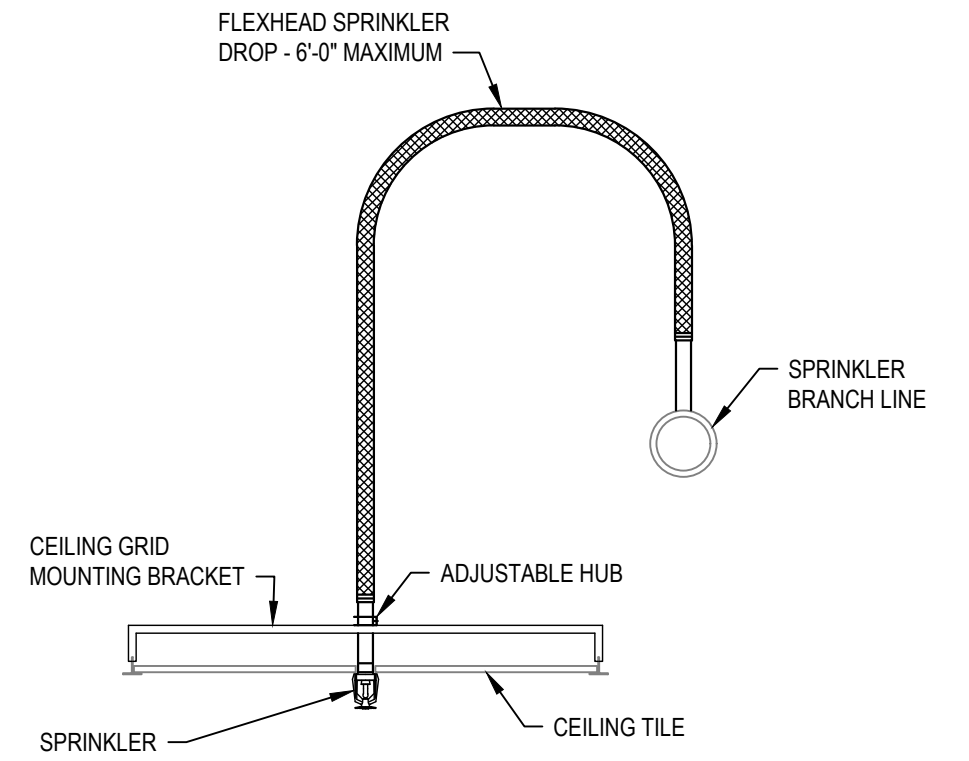
**LEGEND:**

- EXISTING PENDENT SPRINKLER TO BE RELOCATED
- RELOCATED EXISTING PENDENT SPRINKLER
- EXISTING PENDENT SPRINKLER TO REMAIN IN PLACE



**1** NEW WORK PLAN - FIRE PROTECTION  
Scale: 1/4" = 1'-0"

SUPERVISED VALVE AND FLOOD SWITCH LOCATION ABOVE CEILING



**2** FLEXIBLE SPRINKLER PIPE DETAIL  
Scale: NONE

REVISIONS	
NO.	DATE

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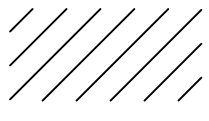
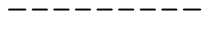
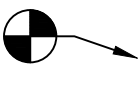
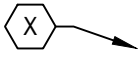

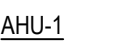

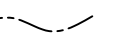


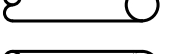

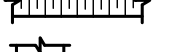
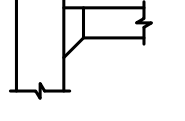
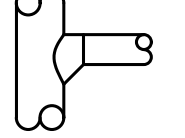
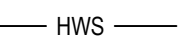
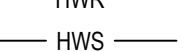
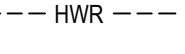



# GENERAL NOTES

- A. THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, APPARATUS, MATERIALS AND WORKMANSHIP ENTERING INTO THIS CONTRACT TO BE THE BEST OF ITS RESPECTIVE KIND AND SHALL REPLACE ALL PARTS AT HIS OWN EXPENSE, WHICH ARE PROVEN DEFECTIVE, WITHIN ONE (1) YEAR FROM FINAL ACCEPTANCE OF THE WORK BY THE PROJECT MANAGER. THE EFFECTIVE DATE OF COMPLETION OF THE WORK SHALL BE THE DATE OF THE PROJECT MANAGER'S STATEMENT OF SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL PRESENT THE PROJECT MANAGER WITH SUCH WARRANTIES AND GUARANTEES AT THE TIME OF FINAL ACCEPTANCE OF THE WORK. THE PROJECT MANAGER SHALL THEN SUBMIT THESE WARRANTIES, GUARANTEES, ETC., TO THE OWNER. THE OWNER RESERVES THE RIGHT TO USE EQUIPMENT INSTALLED BY THE CONTRACTOR PRIOR TO DATE OF FINAL ACCEPTANCE. SUCH USE OF EQUIPMENT SHALL, IN NO WAY, INVALIDATE THE GUARANTEE EXCEPT THAT THE OWNER SHALL BE LIABLE FOR ANY DAMAGE TO THE EQUIPMENT DURING THIS PERIOD DUE TO THE NEGLIGENCE OF THE OPERATOR OR OTHER EMPLOYEES.
- B. CONTRACTOR WILL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONTRACT DOCUMENTS WILL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE ANY WORK RELATING TO THOSE CONDITIONS IS PERFORMED.
- C. CONTRACTOR SHALL SECURE SERVICES OF A CERTIFIED SPRINKLER CONTRACTOR WHO WILL INSTALL NEW OR MODIFY EXISTING SPRINKLER PIPING AND HEADS. VENDOR SHALL SUPPLY CERTIFICATION THAT ALL MODIFICATIONS MEET ALL APPLICABLE CODES.
- D. THE CONTRACTOR MUST KEEP A RECORD SET OF CONSTRUCTION DOCUMENTS ON SITE AT ALL TIMES. ALL DISCREPANCIES IN THE EXISTING CONDITIONS, ALTERNATE MATERIALS AND METHODS OF CONSTRUCTION, AND FIELD REVISIONS AND MODIFICATIONS SHALL BE RECORDED ON THESE FIELD DOCUMENTS.
- E. PROVIDE AND INSTALL ALL EQUIPMENT AND ACCESSORIES AS INDICATED, IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH PROJECT PLAN AND SPECIFICATION REQUIREMENTS.
- F. FURNISH ON EACH ITEM OF EQUIPMENT A NAMEPLATE GIVING THE UNIT NAME AND POWER SOURCE LOCATION. NAMEPLATES SHALL BE ENGRAVED BAKELITE, WHITE LETTERS ON BLACK BACKGROUND TO SETON NAMEPLATE CO., OR C.H. HANSON CO. NAMEPLATES MUST BE FIRMLY AFFIXED TO UNIT. ALL NAMEPLATE DESCRIPTIONS MUST BE APPROVED BY ENGINEER BEFORE NAMEPLATES ARE PREPARED, SO THAT CORRECT IDENTIFICATION WILL BE USED.
- G. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL & COMMUNICATIONS INSTALLATION REQUIRED FOR A FULLY FUNCTIONAL CONTROL SYSTEM AS INDICATED ON PLANS. NETWORK ACTIVATION SHALL BE COMPLETED BY UK ITS.
- H. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE. CONTRACTOR IS RESPONSIBLE FOR MAKING ALL REQUIRED CONNECTIONS FOR A COMPLETE SYSTEM.
- I. CONTRACTOR WILL PROVIDE ALL MISCELLANEOUS STEEL TO SUPPORT ALL MECHANICAL DUCT AND PIPING SYSTEMS AND EQUIPMENT. HANG ALL EQUIPMENT FROM STRUCTURE WITH MINIMUM OF TWO TRAPEZE ASSEMBLIES OR FOUR INTEGRAL MOUNTING POINTS WITH VIBRATION ISOLATORS ON ALL FOUR SUPPORTS. DO NOT HANG ANYTHING FROM MECHANICAL OR ELECTRICAL ITEMS.
- J. NO STEEL STRUCTURAL MEMBERS WILL BE CUT, BURNED, WELDED OR DRILLED WITHOUT SPECIFIC PERMISSION OF THE ENGINEER.
- K. ALL EQUIPMENT, ACCESSORIES, PIPING, WIRING, DUCT AND OTHER WORK, WHICH IS INSTALLED IN FINISHED SPACES WILL BE CONCEALED IN WALLS, FLOORS, FURRED CHASES OR SUSPENDED CEILINGS, EXCEPT FOR INDICATED TERMINAL UNITS, CONTROLS, AIR INLETS AND OUTLETS, AS SHOWN. ALL DUCTWORK, PIPING, AND MECHANICAL EQUIPMENT SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE. NO OTHER TRADES, I.E. ELECTRICAL, CEILING, PLUMBING, ETC., SHALL BE SUSPENDED, HUNG, OR SUPPORTED FROM MECHANICAL DUCTWORK OR MECHANICAL PIPING.
- L. PIPE HANGERS AND SUPPORTS SHALL BE FACTORY FABRICATED ACCORDING TO MSS SP-58 AND SHALL BE INSTALLED PER MSS-69. CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS STEEL REQUIRED FOR SUPPORTS AND HANGERS. DO NOT HANG ANYTHING FROM MECHANICAL OR ELECTRICAL ITEMS.
- M. ALL DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE DIMENSIONS FOR SHOP OR FIELD-FABRICATED DUCT AND NOMINAL SIZES FOR FACTORY FABRICATED DUCT.
- N. FOR TYPICAL WATER, REFRIGERANT AND AIR CONNECTIONS TO EQUIPMENT, SEE STANDARD DETAILS.
- O. COORDINATE ALL PIPING AND DUCTWORK WITH BOTH NEW AND EXISTING MECHANICAL AND ELECTRICAL WORK, INCLUDING HVAC, PLUMBING, ELECTRICAL, FIRE ALARM, SPRINKLER, COMMUNICATIONS AND EXTERIOR UTILITIES.
- P. PROVIDE DISCONNECTS AND MAGNETIC STARTERS (OR RELAYS WITH OVERLOAD PROTECTION FOR SINGLE PHASE) FOR ALL EQUIPMENT SUPPLIED BY MECHANICAL CONTRACTOR. POWER WIRING AND CONDUIT TO THESE DEVICES AND BETWEEN THESE DEVICES AND MECHANICAL EQUIPMENT, IF REQUIRED, WILL BE SUPPLIED BY ELECTRICAL CONTRACTOR.
- Q. FOR ALL NEW HVAC EQUIPMENT, PROVIDE COIL PULL ACCESS FOR THE DEPTH OF EACH COIL. FOLLOW MANUFACTURER'S RECOMMENDED CLEARANCES FOR PUMPS, MOTORS, AND FANS.
- R. CONSULT ARCHITECTURAL REFLECTED CEILING PLAN FOR PLACEMENT OF AIR TERMINALS. COORDINATE WITH MECHANICAL WORK AND WORK OF OTHER TRADES.
- S. ALL NEW SUPPLY AND RETURN DUCTWORK SHALL BE GALVANIZED STEEL, G90, NO LIGHTER THAN 24-GAUGE. ALL WORK MUST COMPLY WITH SMACNA DUCT CONSTRUCTION STANDARDS.
- T. DUCTWORK AND PIPING IN ROOMS WITH SUSPENDED CEILINGS SHALL BE ABOVE CEILING EXCEPT IN EQUIPMENT ROOMS.
- U. INSTALL CONTROL DEVICES (SUCH AS SENSORS, SENSING WELLS, VALVES, DAMPERS, ETC.) FURNISHED BY CONTROLS SUPPLIER, IN DUCT AND PIPING SYSTEMS.
- V. ALL RADIUS DUCT ELBOWS SHALL BE LONG-RADIUS TYPE. ALL SQUARE ELBOWS SHALL HAVE TURNING VANES. SQUARE NECK RADIUS-BACK ELBOWS ARE NOT ALLOWED.
- W. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 5'-0". FLEXIBLE DUCTWORK SHALL BE ALUMINUM WITH SPIRAL-FABRICATED TRIPLE-LOCK CONSTRUCTION. FLEXIBLE DUCTING CONSTRUCTED OR WIRE FRAMES AND FIBERGLASS OR PLASTIC FILM IS PROHIBITED. SHOP DRAWING PRODUCT SUBMITTAL REVIEW AND APPROVAL IS REQUIRED.
- X. PROVIDE 1.5-LB DENSITY, R-5, 1.5-IN THICKNESS, ALUMINIZED KRAFT PAPER-BACKED EXTERNAL FIBERGLASS INSULATION ON ALL SUPPLY, OUTSIDE AIR, AND RETURN AIR DUCTWORK. NO INSULATION IS REQUIRED ON EXHAUST DUCT. SEAL ALL NEW DUCTWORK JOINTS WITH WATER-BASED DUCT SEALANT (UNITED MCGILL, IRONGRIP 601 OR EQUAL). TAPING OF JOINTS IS UNACCEPTABLE EXCEPT WHERE APPROVED IN ADVANCE BY PROJECT ENGINEER.
- Y. PROVIDE MANUAL DAMPERS IN ALL SUPPLY AND EXHAUST BRANCHES CONTAINING GRILLES, REGISTERS OR DIFFUSERS WHETHER SHOWN ON PLANS OR NOT AND PROVIDE DAMPERS IN RETURNS WHERE SHOWN. PROVIDE ADJUSTABLE TAKE-OFF FITTINGS WITH GRIDS IN LIEU OF MANUAL DAMPERS FOR ALL ROUND TAKE-OFFS FROM RECTANGULAR MAINS OR PLENUMS. DAMPERS IN DUCT DO NOT REPLACE DAMPERS SPECIFIED AS PART OF THE AIR TERMINAL ASSEMBLY OR VICE VERSA.
- Z. ALL AIR DEVICES LOCATED ABOVE GYPBOARD OR HARD CEILINGS SHALL HAVE ACCESSIBLE BALANCING DAMPERS.
- AA. AIR OUTLETS ARE NOT TO BE INSTALLED LESS THAN THREE FEET AWAY FROM SMOKE DETECTORS.
- AB. ALL ACCESSIBLE CEILINGS MUST HAVE 6" CLEAR TO BOTTOM OF DUCTWORK, PIPES, ETC.
- AC. USE TURNING VANES, PER SMACNA CONSTRUCTION GUIDELINES, FOR ALL MITERED RECTANGULAR TURNS OF 45 DEGREES OR MORE.
- AD. CONTRACTOR WILL MAKE TRANSITIONS FROM ROUND TO RECTANGULAR AND BACK ON LOW PRESSURE DUCT AND OFFSET AS REQUIRED, WITH ENGINEER'S APPROVAL, WHERE OBSTRUCTIONS OR OTHER DUCT REQUIRE MODIFICATIONS TO THE PLANS.
- AE. CONTRACTOR WILL MAKE MINOR OFFSETS AND LOCATION CHANGES IN PIPE AND DUCT AND IN DUCT ASPECT RATIO AS REQUIRED IN CONGESTED CEILING OR MECHANICAL SPACES.
- AF. ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
- AG. ALL INCREASERS AND REDUCERS IN PIPING SYSTEM ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL INCREASERS AND REDUCERS WHERE REQUIRED.

- AH. DO NOT ROUTE ANY DUCTWORK OR PIPING OVER ANY ELECTRICAL OR ELEVATOR EQUIPMENT.
- AI. WHERE DUCTS PENETRATE INTERIOR OR EXTERIOR WALLS, THE WALL OPENINGS SHALL BE SEALED AIR TIGHT.
- AJ. PROVIDE ALL ACCESS DOORS AS SHOWN, EXCEPT THOSE SPECIFIED UNDER OTHER DIVISIONS. IN ADDITION, PROVIDE ANY OTHER ACCESS DOORS - WHETHER OR NOT SHOWN ON PLANS - NECESSARY FOR ACCESS TO CONCEALED EQUIPMENT, VALVES, COILS, DAMPERS, ACTUATORS, JUNCTION BOXES, CONTROLS OR OTHER OPERATIONAL OR SERVICEABLE ITEMS, UNLESS ITEM IS REASONABLY ACCESSIBLE THROUGH LAY-IN CEILING PANELS.
- AK. DUCT DAMPERS IN INACCESSIBLE CEILINGS MAY BE PROVIDED WITH APPROVED REMOTE OPERATORS INSTEAD OF ACCESS DOORS.
- AL. THERMOSTATS SHALL BE MOUNTED 60" A.F.F.
- AM. DURING CONSTRUCTION, ALL OPEN DUCTS SHOULD BE SEALED.
- AN. ALL ITEMS VISIBLE THROUGH RETURN AIR GRILLES SHALL BE PAINTED FLAT BLACK.
- AO. CANVAS JACKETING MUST BE PRIMED AND PAINTED ACCORDING TO UNIVERSITY OF KENTUCKY STANDARD COLOR CODING.
- AP. HYDRONIC HOT WATER PIPING 2" AND SMALLER SHALL BE TYPE "L" HARD COPPER WITH LEAD-FREE SOLDER JOINTS, WROUGHT FITTINGS, 150-LB. SCREWED CONNECTIONS, AND FULL-PORT BALL VALVES.
- AQ. PROVIDE AND INSTALL 1/2" MIN. FIBERGLASS INSULATION WITH ALL-SERVICE JACKET ON ALL HYDRONIC LINES.
- AR. INSTALL HYDRONIC PIPING AT A UNIFORM GRADE OF 0.2 PERCENT, UPWARD IN DIRECTION OF FLOW FOR SUPPLY, DOWNWARD IN DIRECTION OF FLOW FOR RETURN.
- AS. INSTALL AIR VENTS AT HIGH POINTS IN PIPING AND DRAINS AT LOW POINTS.
- AT. TEST HYDRONIC WATER PIPING TO A HYDROSTATIC PRESSURE OF 1-1/2 TIMES NORMAL OPERATING PRESSURE, 100 PSIG MIN., FOR A CONTINUOUS PERIOD OF NOT LESS THAN EIGHT (8) HOURS. DURING THIS TIME, CAREFULLY INSPECT THE SYSTEM FOR LEAKS. IF NECESSARY, REPAIR LEAKS IN A MANNER ACCEPTABLE TO THE ENGINEER AND TEST AGAIN UNTIL NO LEAKAGE IS DETECTED. TEST PIPING PRIOR TO THE APPLICATION OF INSULATION.
- AU. ALL MATERIALS EXPOSED WITHIN PLENUMS SHALL BE NON-COMBUSTIBLE OR HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
- AV. UPON COMPLETION OF INSTALLATION AND STARTUP OF HVAC SYSTEMS, PROVIDE CERTIFIED AIR TEST AND BALANCE REPORT BY AN INDEPENDENT NEBB OR AABC-CERTIFIED CONTRACTOR. AIR BALANCE SHALL INCLUDE ALL NEW SUPPLY DUCTS, BRANCH DUCTS, DIFFUSERS, REGISTERS, AND GRILLES.

# LEGEND

	EXISTING BUILDING UNDISTURBED AREAS
	EXISTING BUILDING WALLS, DOORS, AND WINDOWS TO REMAIN
	DEMOLITION
	COMPONENT DEMOLITION
	CONNECT NEW TO EXISTING
	KEYNOTE TAG
	DIFFUSER TAG
	EQUIPMENT TAG
	THERMOSTAT
	THERMOSTAT WIRE
	RECTANGULAR DUCT UP
	RECTANGULAR DUCT DOWN
	ROUND DUCT UP
	ROUND DUCT DOWN
	FLEXIBLE DUCT
	RECTANGLE DUCT TAP-IN
	ROUND DUCT TAP-IN
	HWS HOT WATER SUPPLY PIPE (EXISTING)
	HWR HOT WATER RETURN PIPE (EXISTING)
	HWS HOT WATER SUPPLY PIPE (NEW)
	HWR HOT WATER RETURN PIPE (NEW)

# PIPE SPECIFICATIONS

## PIPE AND FITTINGS

- A. FURNISH AND INSTALL PIPING OF SIZES AND AT THE LOCATIONS SHOWN ON THE DRAWINGS. PIPING AND FITTING MATERIAL SHALL BE AS SHOWN IN THE ACCOMPANYING TABLE:

## B. TABLE OF PIPING AND FITTINGS

SERVICE	SIZES	PIPE	FITTINGS
HYDRONIC HOT WATER	2" AND SMALLER	TYPE L COPPER	WROUGHT FITTINGS. LEAD-FREE SOLDER JOINTS OR 15-LB. SCREWED CONNECTIONS, FP BALL VALVES

## NOTES:

1. ALL OTHER PIPING, NOT SPECIFICALLY MENTIONED IN THE PRECEDING TABLE, SHALL BE SCHEDULE 40, BLACK STEEL PIPE WITH 125 LB. CAST IRON, SCREWED FITTINGS FOR 2" AND SMALLER AND STANDARD WEIGHT STEEL WELDING FITTINGS FOR SIZES 2-1/2" AND LARGER.
2. SEE GENERAL NOTES FOR INSULATION REQUIREMENTS.

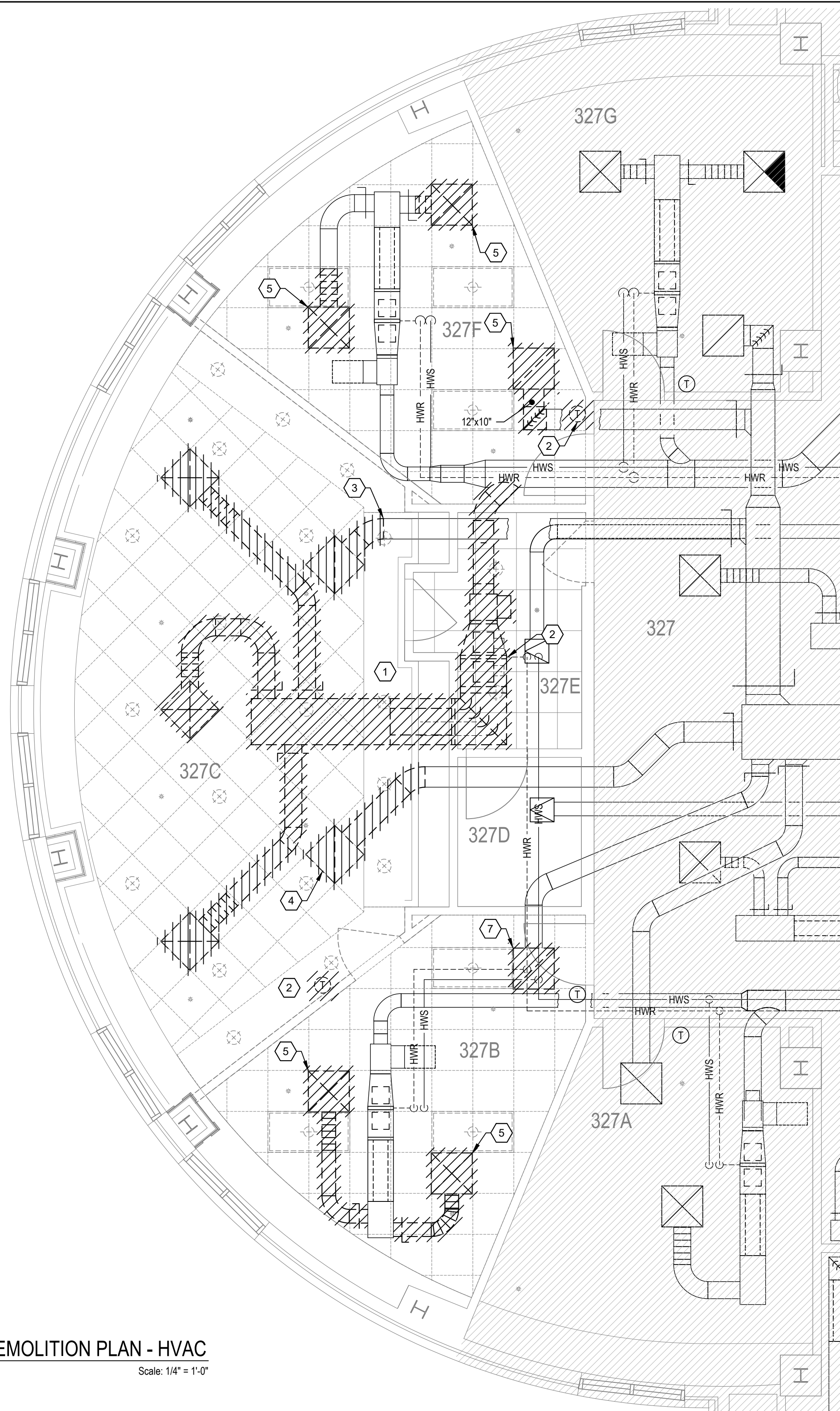
DESIGN BASIS	
COOLING	
SPACE TEMPERATURE	74° F DB
HUMIDITY	55 % RH
HEATING	
SPACE TEMPERATURE	68° F
OA CONDITIONS	
SUMMER TEMPERATURE (1%)	89.3° F
WINTER TEMPERATURE (99%)	12.7° F



REVISIONS	
NO.	DATE

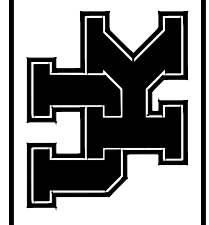
BUILDING NO:	200
DESIGNED BY:	BL
DRAWN BY:	ER
CHECKED BY:	TA
APPROVED BY:	PK
PROJECT NO:	2771.0
DATE:	12/14/2023
DRAWING NUMBER:	

1 DEMOLITION PLAN - HVAC  
Scale: 1/4" = 1'-0"



- GENERAL NOTES**
- A. SEE SHEET M-001 FOR MECHANICAL GENERAL NOTES.
  - B. SEE SHEET A-001 FOR ARCHITECTURAL GENERAL NOTES.
  - C. SEE SHEET E-001 FOR ELECTRICAL GENERAL NOTES.
  - D. REPAIR AND REPLACE ALL DAMAGED INSULATION AT CONNECTION POINTS.

- SHEET NOTES** (X)
- 1. REMOVE EXISTING SUPPLY DIFFUSERS, VAV BOX, COIL, AND DUCTWORK BACK TO MAIN. CAP AIR TIGHT.
  - 2. DEMO EXISTING HOT WATER SUPPLY PIPE, HOT WATER RETURN PIPE, VALVES, AND THERMOSTAT. RETURN THERMOSTATS TO UNIVERSITY OF KENTUCKY CONTROLS GROUP.
  - 3. DEMO EXISTING RETURN GRILL. DEMO EXISTING DUCTWORK, INCLUDING ELBOW AND CAP REMAINING RETURN DUCTWORK AIR TIGHT.
  - 4. DEMO EXISTING RETURN GRILL. DEMO EXISTING DUCTWORK, INCLUDING ELBOW. PREPARE REMAINING RETURN DUCTWORK FOR CONNECTION OF NEW DUCTWORK.
  - 5. DEMO EXISTING SUPPLY DIFFUSER AND EXISTING FLEX BACK TO HARD DUCT CONNECTION. PREPARE REMAINING HARD DUCT PIPE FOR CONNECTION OF NEW FLEX.
  - 6. DEMO EXISTING RETURN DIFFUSER AND EXISTING DUCT, INCLUDING ELBOW. PREPARE REMAINING RETURN DUCT FOR CONNECTION OF NEW DUCTWORK.
  - 7. DEMO EXISTING RETURN DIFFUSER. PREPARE REMAINING RETURN DUCTWORK FOR CONNECTION OF NEW DUCTWORK.

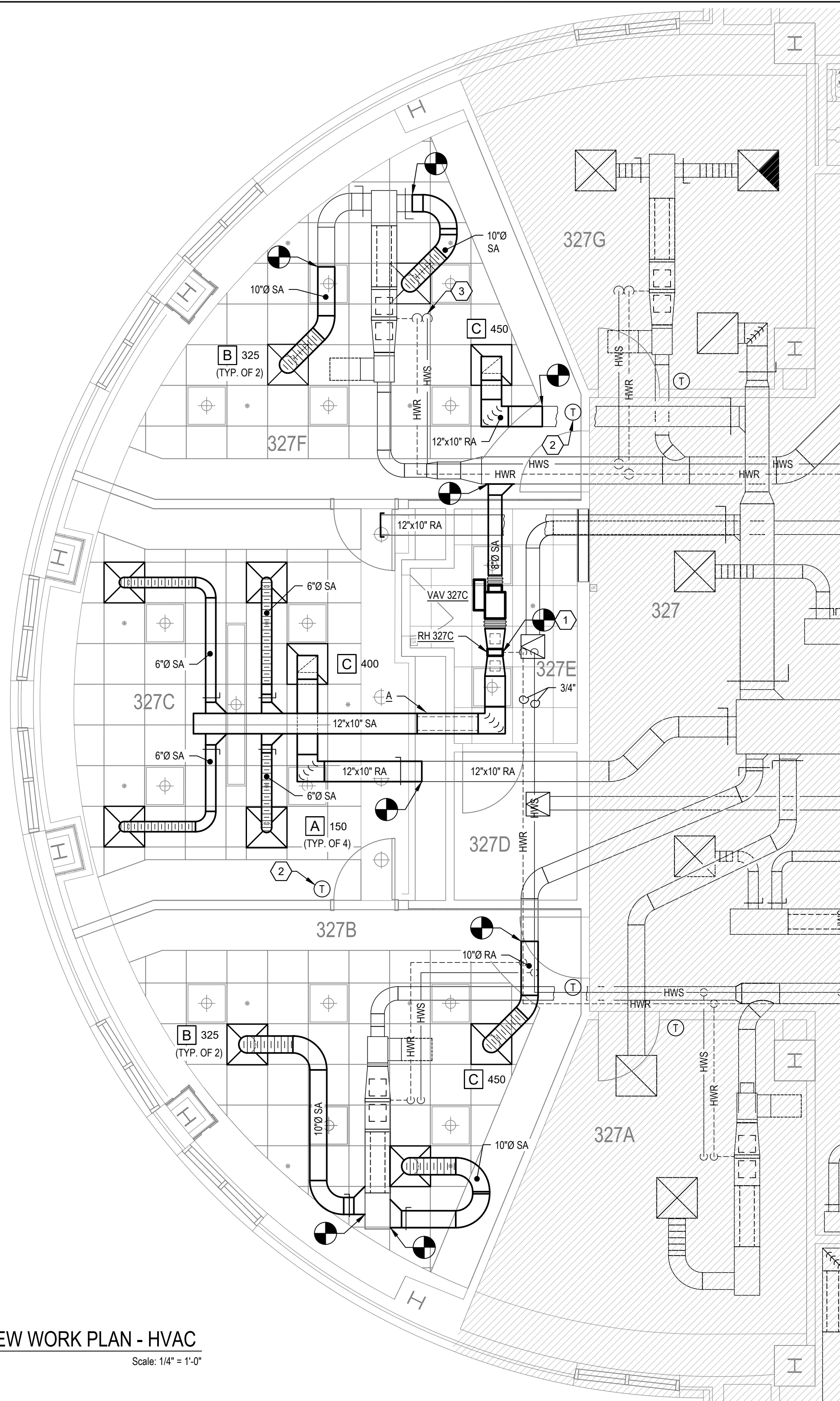


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**1** NEW WORK PLAN - HVAC  
Scale: 1/4" = 1'-0"

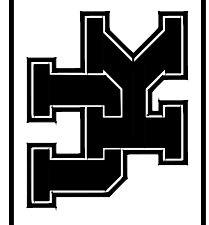


**GENERAL NOTES**

- A. SEE SHEET M-001 FOR MECHANICAL GENERAL NOTES.
- B. SEE SHEET A-001 FOR ARCHITECTURAL GENERAL NOTES.
- C. SEE SHEET E-001 FOR ELECTRICAL GENERAL NOTES.
- D. REPAIR AND REPLACE ALL DAMAGED INSULATION AT CONNECTION POINTS.

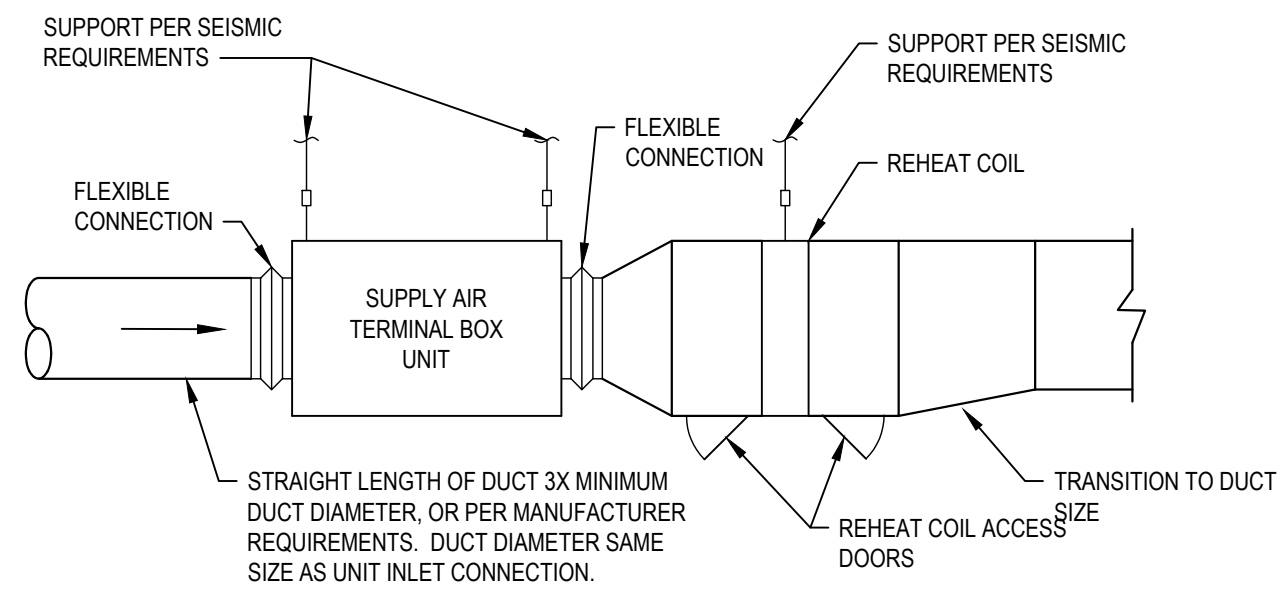
**SHEET NOTES** X

1. PROVIDE AND INSTALL NEW REHEAT COIL, CONTROL VALVE, AND ASC CONTROLLER. CONNECT NEW COIL TO EXISTING 3/4" HOT WATER SUPPLY PIPE AND 3/4" HOT WATER RETURN PIPE. INSTALL NEW VALVES AS SHOWN ON HOT WATER COIL PIPING DETAIL ON SHEET M-400.
2. INSTALL NEW THERMOSTAT.
3. REPLACE EXISTING REHEAT CONTROL VALVE AND ACTUATOR. INSTALL NEW ACS. SEE IC-001 FOR ADDITIONAL INFORMATION.

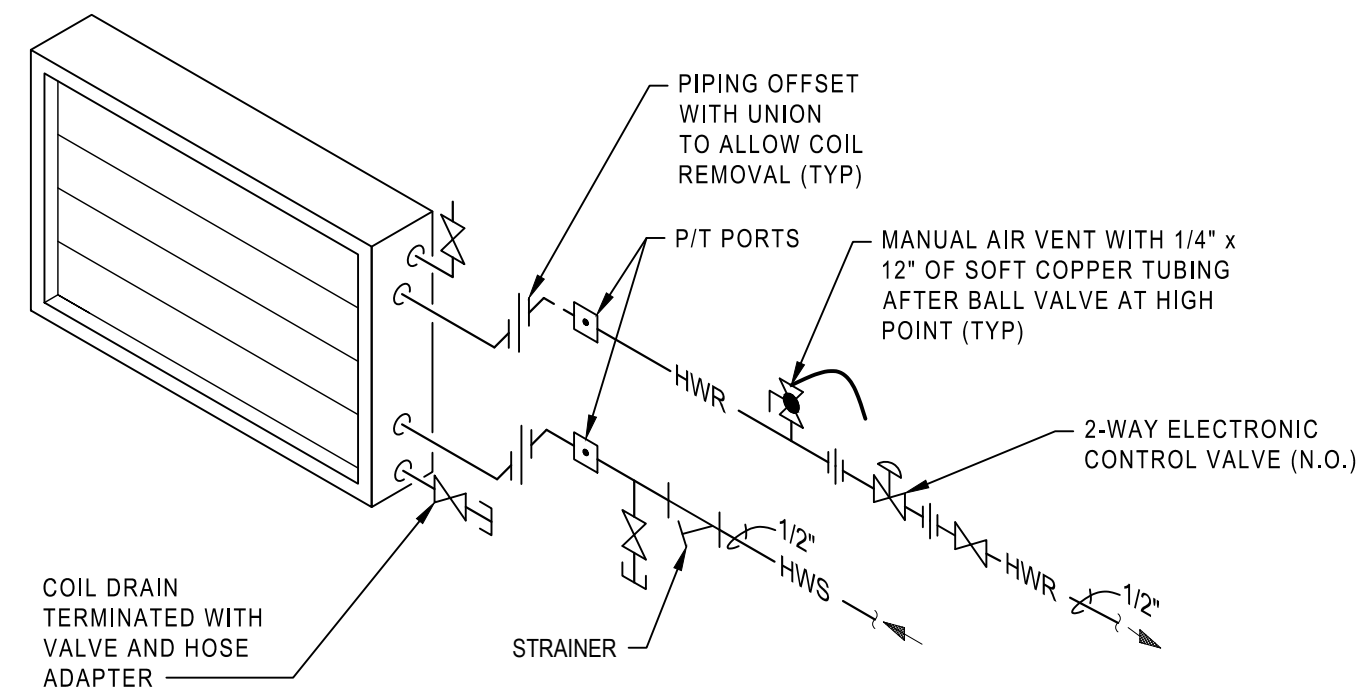


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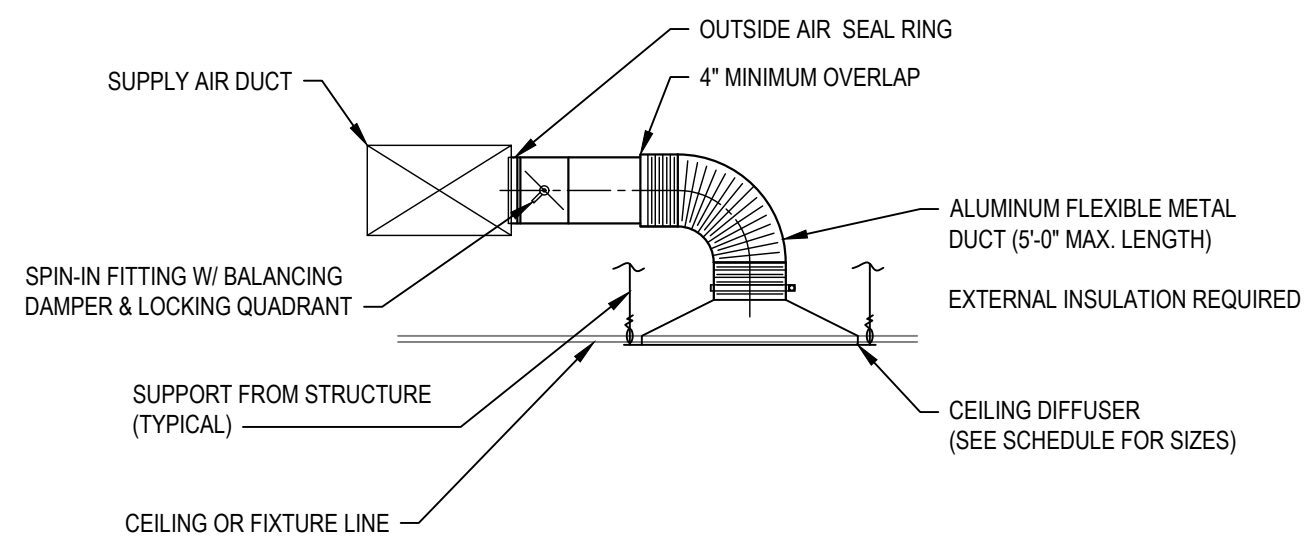
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1 VAV BOX DETAIL  
Scale: NONE

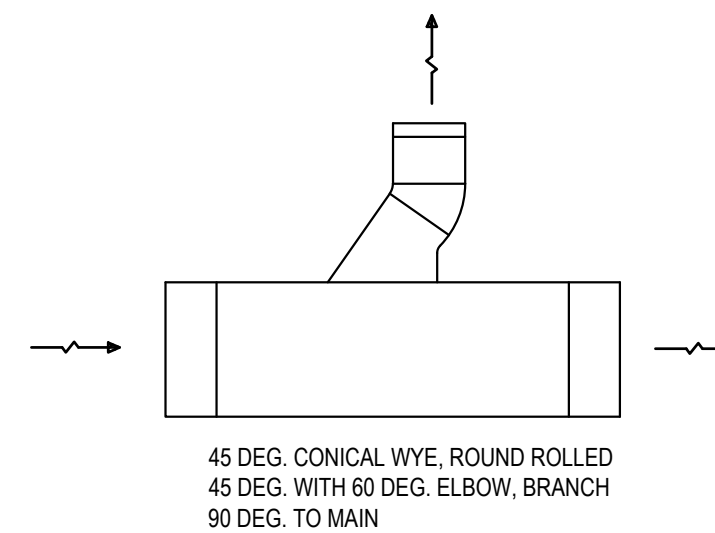


2 HOT WATER COIL PIPING DETAIL  
Scale: NONE



NOTE:  
1. FLEXIBLE DUCT SHALL BE A FACTORY-FABRICATED ASSEMBLY CONSISTING OF AN ALL STEEL OR ALUMINUM MATERIAL. PLASTIC WITH SPIRAL WIRE FLEXIBLE DUCT IS NOT PERMITTED.

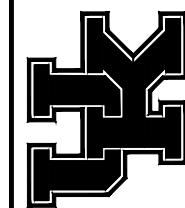
3 SUPPLY DIFFUSER DETAIL  
Scale: NONE



4 TAKE-OFF DETAIL  
Scale: NONE

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AIR DEVICE SCHEDULE													
MARK	TYPE	SERVICE	MAX AIRFLOW [CFM]	MAX AIR P.D. [IN W.G.]	NECK SIZE [IN]	MODULE SIZE		THROW (FT/50 FPM) [FT]	PATTERN	MAX [NC]	FRAME	MATERIAL	REMARKS
						L [IN]	W [IN]						
A	1	SUPPLY	150	0.06	6	24	24	7	4-WAY	28	LAY-IN	AL (FRAME)	1,3
B	1	SUPPLY	280	0.06	10"	24	24	9	4-WAY	18	LAY-IN	AL (FRAME)	1,3
C	2	RETURN	1125	0.02	12x12	22	22	-	-	16	LAY-IN	AL (FRAME)	2,3

- TYPE:
- ARCHITECTURAL CEILING DIFFUSER, PERFORATED, WITH DIRECTIONAL PATTERN DEFLECTORS
  - ARCHITECTURAL CEILING RETURN GRILLE, PERFORATED, WITH DIRECTIONAL PATTERN DEFLECTORS
- REMARKS:
- BASIS OF DESIGN: PRICE PDS SERIES
  - BASIS OF DESIGN: PRICE PDR SERIES
  - FINISH: POWDERED-COATED, COLOR: WHITE

REHEAT COIL SCHEDULE											
MARK	SIZE	AIRFLOW [CFM]	VELOCITY [FPM]	CAPACITY [MBH]	ROWS	EAT/LAT [°F]	EWT/LWT [°F]	FLOW: 20°DT [GPM]	WATER P.D. [FT]	AIR P.D. [IN W.C.]	REMARKS
RH 327C	9" H X 9" L	200	350	9.3	2	55/98.2	160/140	1.0	0.5	0.11	ALL

- REMARKS:
- PERFORMANCE AT SITE CONDITIONS
  - FLUID: WATER
  - 5/8-IN. COPPER TUBES, 0035" WALL THICKNESS
  - BASIS OF DESIGN: GREENHECK COILS
  - CONTROL VALVE, N.O., MODULATING

SOUND TRAP SCHEDULE																						
MARK	MANUFACTURER	MODEL	DIMENSIONS [L x W x H, IN]	FACE VELOCITY [FPM]	PRESSURE DROP [IN W.G.]	INSERTION LOSS dB								SELF GENERATED NOISE dB						REMARKS		
						1	2	3	4	5	6	7	8	1	2	3	4	5	6		7	8
A	PRICE	RM	36 X 12 X 12	500	0.03	3	5	11	22	28	21	18	15	28	20	15	23	22	15	10	10	ALL

- TYPE:
- ABSORPTIVE SILENCER, RECTANGULAR
- REMARKS:
- BASIS OF DESIGN: PRICE ASPD SERIES
  - GALVANIZED STEEL CONSTRUCTION, 22-GA. MIN
  - GLASS FIBER PACKING
  - FILM-LINED SILENCER

VAV BOX SCHEDULE										
MARK	SERVICE	TYPE	PRIMARY INLET SIZE [IN]	MAX INLET S.P. [IN. W.G.]	COOLING		HEATING	DISCHARGE NOISE [NC]	REMARKS	ACCESSORIES
					MAX AIRFLOW RATE [CFM]	MIN AIRFLOW RATE [CFM]	AIRFLOW RATE [CFM]			
VAV 327B	OFFICE	1		0.5	650	240	250	-	1	-
VAV 327C	OFFICE	1		0.5	650	240	250	-	1	-
VAV 327F	CONFERENCE ROOM	1	8	0.5	600	180	200	24	2,3	1,2,3

- TYPE:
- TERMINAL UNIT, SINGLE DUCT
- REMARKS:
- EXISTING VAV BOX - BALANCE TO NEW VALUES SHOWN
  - BASIS OF DESIGN: PRICE SDV
  - CONTROL VALVE BY MECHANICAL CONTRACTOR
- ACCESSORIES:
- ELECTRICAL DISCONNECT
  - AIRFLOW SENSOR
  - ELECTRONIC CONTROLS

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POINTS LIST										
	OUTPUT				INPUT					
	DIGITAL	ANALOG	DIGITAL	ANALOG	DIGITAL	ANALOG	DIGITAL	ANALOG	ANALOG	
	START/STOP	STATUS	POSITION ADJUSTMENT	SETPOINT	AUXILIARY CONTACT	STATUS	TEMPERATURE	RELATIVE HUMIDITY	PRESSURE, PSIG	FLOW, CFM
HEATING VALVE COMMAND	X		X							
ZONE TEMP							X			
ZONE TEMP SETPOINT			X							
ZONE AIRFLOW										X
DISCHARGE AIR TEMP							X			
OCC SCHEDULE COMMAND	X									
UNOC HTG COMMAND	X									

RESPONSIBILITY MATRIX

	ELECTRICAL CONTRACTOR	MECHANICAL CONTRACTOR	UK/FMCE GROUP
PROVIDE AND INSTALL INTERCONNECTING CONDUIT BETWEEN DEVICES		X	
PROVIDE AND INSTALL HVAC CONTROLS DATA WIRING	X		
FURNISH & INSTALL REHEAT COIL			X
PROVIDE AND INSTALL REHEAT CONTROL VALVES			X
TERMINATE CONTROL DEVICE WIRING	X		
PROVIDE THERMOSTATS, REHEAT CONTROL VALVE ACTUATORS, AND DISCHARGE AIR SENSORS			X
PROVIDE ASC CONTROLLERS			X
PROGRAM ASC CONTROLLER AND TIER 1 CONTROLLER			X
INSTALL CONTROLS POWER & COMM WIRING AND CONDUIT, INCLUDING TRANSFORMERS, THERMOSTATS, SENSORS, ETC. <sup>1</sup>	X		
INSTALL VAV ASC CONTROLLER	X		
COMMISSIONING			X
INTEGRATION & ISSUANCE OF BACNET INSTANCE NUMBERS AND NETWORK NUMBERS			X
CREATE AND UPDATE GRAPHICS			X

NOTES

1 - SINGLE CONDUIT MAY BE USED IF BOTH CABLES ARE SHIELDED TYPE.

NEW EQUIPMENT SCHEDULE

MANUFACTURER	MODEL NO.	DESCRIPTION	SAP PART NO.
JOHNSON CONTROLS	M4-CVM03050-0	ASC (APPLICATION SPECIFIC CONTROLLER)	325121
JOHNSON CONTROLS	NSB8BTN240-0	THERMOSTAT	323556
JOHNSON CONTROLS	TE-6311M-1	DAT SENSOR DUCT PROBE 8 IN	325120
JOHNSON CONTROLS	CBL-NETWORK25	25' TSTAT CABLE (NUMBER INDICATES LENGTH)	325119
JOHNSON CONTROLS	CBL-NETWORK50	50' TSTAT CABLE (NUMBER INDICATES LENGTH)	325119
VYKON	JACE 8000	JACE 8000 CONTROLLER W/25-DEVICE CORE, MICRO-SD CARD, TWO 10/100 ETHERNET PORTS, 2 RS-485 SERIAL PORTS. DEVICE-25, 25-DEVICE CAPACITY PACK, SMA-8025-1YR-INIT, JACE 8000 N4 SMA-25 DEVICES.	
WHITE-RODGERS	90-T40C4	40VA CLASS 2 FOOT-MOUNTED TRANSFORMER	
-	CBL-18/3 BLU-PLN	CABLE 18/3 SHIELDED, PLENUM RATED	323750

GENERAL NOTES

- EXISTING 327C VAV BOX & CONTROLLER SHALL BE REMOVED FROM N2 COMMUNICATIONS LOOP.
- EXISTING 327F VAV CONTROLLER SHALL BE REMOVED FROM N2 COMMUNICATIONS LOOP.
- RE-CONNECT N2 COMMUNICATIONS CABLE BETWEEN EXISTING VAV BOX 327B AND NEXT DEVICE IN SYSTEM (CURRENTLY CONNECTED AFTER 327F CONTROLLER).
- NEW VAV BOX, ASC CONTROLLER AND HOT WATER REHEAT CONTROL VALVE SHALL BE PROVIDED FOR THE FOLLOWING ROOM:
  - ROOM 327C
- NEW ASC CONTROLLER AND REHEAT CONTROL VALVE SHALL BE PROVIDED FOR THE FOLLOWING ROOM:
  - ROOM 327F
- ASC CONTROLLER IS JCI MODEL M4-CVM03050-0 (UK PART #325121).
- REHEAT CONTROL VALVES PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR (M.C.). WIRING BY ELECTRICAL CONTRACTOR (E.C.).
- FOR EACH NEW ASC CONTROLLER, PROVIDE AND INSTALL A NEW #22 AWG, 2-PR, SHIELDED DATA CABLE IN NEW 3/4" CONDUIT DAISY-CHAINED TO NEXT ASC CONTROLLER. TERMINATE DATA CABLE ON NEXT ASC CONTROLLER AS SHOWN IN WIRING DIAGRAM.
- AT EACH NEW ASC CONTROLLER LOCATION, UTILIZE THE EXISTING 24VDC POWER THAT WAS CONNECTED TO THE DEMO'D CONTROLLER AND RE-CONNECT TO THE NEW ASC CONTROLLER AND ASSOCIATED EQUIPMENT
- PROVIDE ROUGH-IN AND INSTALL THERMOSTAT IN CONFERENCE ROOM 327C AND OFFICE 327F. ROUGH-IN TO INCLUDE SINGLE-GANG BOX AND CONDUITS, AS INDICATED. THERMOSTATS PROVIDED BY UK CONTROLS GROUP AND INSTALLED BY E.C. THERMOSTAT SHALL BE JCI MODEL SB8BTN240-0 (UK PART # 323556).
- RUN NEW 3/4" CONDUIT FROM EACH NEW THERMOSTAT TO NEW ASC CONTROLLER ENCLOSURE IN CEILING ABOVE RESPECTIVE ROOM. INSTALL MODULAR THERMOSTAT CABLE BETWEEN THERMOSTAT AND NEW ROOM ASC CONTROLLER ENCLOSURE.
- FOR EACH NEW ASC CONTROLLER (N=2), PROVIDE AND INSTALL NEW DUCT TEMPERATURE SENSOR IN SUPPLY DUCT DOWNSTREAM FROM REHEAT COIL. INSTALL PER MANUFACTURER'S INSTRUCTIONS. RUN 3/4" CONDUIT FROM EACH NEW TEMPERATURE SENSOR TO RESPECTIVE ASC CONTROLLER ENCLOSURE AND WIRE WITH 18/3 TWISTED PAIR, SHIELDED.
- CONNECT CONTROL WIRING BETWEEN EACH THERMOSTAT AND NEW ASC CONTROLLER IN RESPECTIVE SPACE. CONTROL WIRING ABOVE FINISHED CEILINGS CAN BE INSTALLED IN J-HOOKS PER CODE.
- ALL DATA CONDUITS IN WALLS MUST BE 1-1/4" DIAMETER, RIGID METAL CONDUIT.
- ROUTE ALL OVERHEAD CONDUITS AND CABLE PATHS ABOVE CEILING, AS HIGH AS POSSIBLE.
- ALL WIRE PULLS MUST BE CLEARLY LABELED.
- POWER AND CONTROL WIRING MUST BE RUN IN SEPARATE CONDUITS.
- REFER TO UNIVERSITY STANDARD 230900S003, INSTRUMENTATION AND CONTROL FOR HVAC - UK CONTROLS STANDARD, FOR ADDITIONAL REQUIREMENTS.
- NOTIFY CONTROLS ENGINEERING PROJECT SUPERVISOR (859.562.2003) PRIOR TO ANY DEMOLITION ACTIVITY.
- RETURN ALL REMOVED CONTROLS DEVICES TO CONTROLS GROUP.

SEQUENCES OF OPERATIONS

GENERAL NOTES

HVAC CONTROLS SHALL BE BACNET/MSTP, COMPATIBLE WITH CURRENT UK BUILDING AUTOMATION SYSTEM (BAS). ALL CONTROLLERS, ACTUATORS, SENSORS, CONTROL CONDUITS, PANELS, AND WIRING SHALL BE PROVIDED AS NECESSARY FOR A COMPLETE AND FUNCTIONING SYSTEM CAPABLE OF FULL COMMUNICATIONS WITH THE UNIVERSITY BAS.

EXISTING SUPPLY AIR HANDLING UNITS AND BUILDING EXHAUST SYSTEMS OPERATE UNDER CONTROL OF THE UNIVERSITY BAS. THESE UNITS AND SYSTEMS WILL REMAIN IN CONTINUOUS OPERATION THROUGHOUT THIS PROJECT.

EXISTING ASC VAV CONTROLLER FOR ROOM 327B SHALL OPERATE AS CURRENTLY PROGRAMMED WITH AIRFLOW ADJUSTMENTS AS INDICATED IN THE VAV SCHEDULE.

NEW VAV BOXES ARE AS FOLLOWS:

- VAV 327F

AN ASC CONTROLLER IS REQUIRED FOR THIS NEW VAV BOX.

A NEW ASC CONTROLLER IS ALSO REQUIRED FOR THE EXISTING VAV BOX IN

- ROOM 327C

THE ASC CONTROLLER ON THIS BOX SHALL BE UPGRADED TO THE CURRENT JCI MODEL M4-CVM03050-0 AND ALL PROGRAMMING RESTORED TO MATCH THIS SEQUENCE, WITH REVISED AIRFLOW VALUES AS LISTED IN THE VAV SCHEDULE.

OCCUPIED MODE

WHEN THE ZONE TEMPERATURE (ZNT) IS BETWEEN THE OCCUPIED HEATING AND COOLING SETPOINTS, THE PRIMARY AIR DAMPER WILL BE AT THE MINIMUM CFM AND THERE WILL BE NO MECHANICAL HEATING. ON A RISE IN ZONE TEMPERATURE (ZNT) ABOVE THE COOLING SETPOINT, THE PRIMARY AIR DAMPER WILL INCREASE THE AIRFLOW, IF AVAILABLE, AND THERE WILL BE NO MECHANICAL HEATING. ON A DROP IN ZONE TEMPERATURE BELOW THE OCCUPIED HEATING SETPOINT, THE REHEAT COIL WILL BE USED TO MAINTAIN THE ZONE TEMPERATURE AND THE PRIMARY AIR DAMPER WILL BE AT THE MINIMUM CFM. IF THE HEATING SETPOINT IS NOT MET WITH THE BOX AT MINIMUM AIRFLOW AND THE REHEAT CONTROL VALVE FULLY OPEN, THE AIRFLOW SHALL BE INCREASED.

UNOCCUPIED MODE

WHEN IN THIS MODE, WHILE THE ZONE TEMPERATURE (ZNT) IS BETWEEN THE UNOCCUPIED HEATING AND COOLING SETPOINTS, THE PRIMARY AIR DAMPER WILL BE AT THE MINIMUM CFM AND THERE WILL BE NO MECHANICAL HEATING. ON A RISE IN ZONE TEMPERATURE (ZNT) ABOVE THE UNOCCUPIED COOLING SETPOINT, THE PRIMARY AIR DAMPER WILL INCREASE THE AIRFLOW, IF AVAILABLE, AND THERE WILL BE NO MECHANICAL HEATING. ON A DROP IN ZONE TEMPERATURE BELOW THE UNOCCUPIED HEATING SETPOINT, THE REHEAT COIL WILL BE USED TO MAINTAIN THE ZONE TEMPERATURE AND THE PRIMARY AIR DAMPER WILL BE AT THE MINIMUM CFM. IF THE HEATING SETPOINT IS NOT MET WITH THE BOX AT MINIMUM AIRFLOW AND THE REHEAT CONTROL VALVE FULLY OPEN, THE AIRFLOW SHALL BE INCREASED.

DISCHARGE AIR TEMPERATURE SENSOR

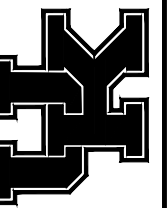
A DISCHARGE AIR TEMPERATURE SENSOR (DAT) IS PROVIDED IN EACH SUPPLY DUCT FOR MONITORING PURPOSES.

UNIT\_ENABLE

A NETWORK UNIT ENABLE SIGNAL WILL CONTROL THE MODE OF THE VAV BOXES.

UNOCCUPIED/STANDBY CONTROL

IN UNOCCUPIED MODE, WHICH IS SCHEDULED BY THE BAS THROUGH THE DELTA CENTER, THE VAV DAMPER WILL RETURN TO MINIMUM POSITION AND THE ZONE TEMPERATURE WILL BE ALLOWED TO FLOAT BETWEEN 60° AND 80°F. WHEN THE BUILDING IS SCHEDULED OCCUPIED, THE ROOM WILL CONTROL TO 68°-74°F (ADJ.).

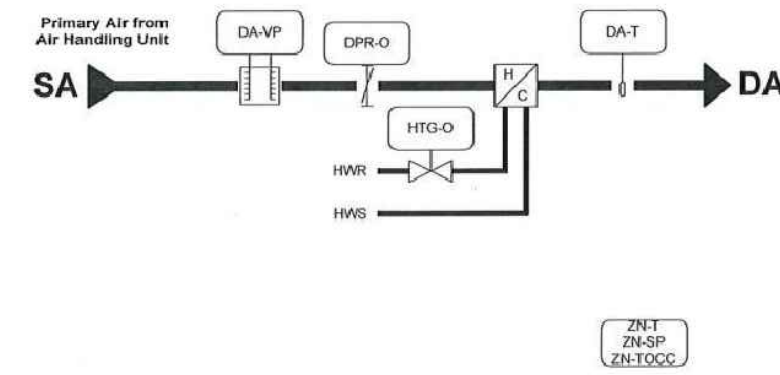


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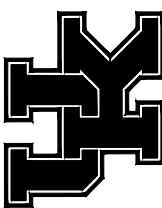
1 VAV CONTROLS SCHEMATIC  
Scale: NONE



2 ASC CONTROLLER WIRING DIAGRAM  
Scale: NONE

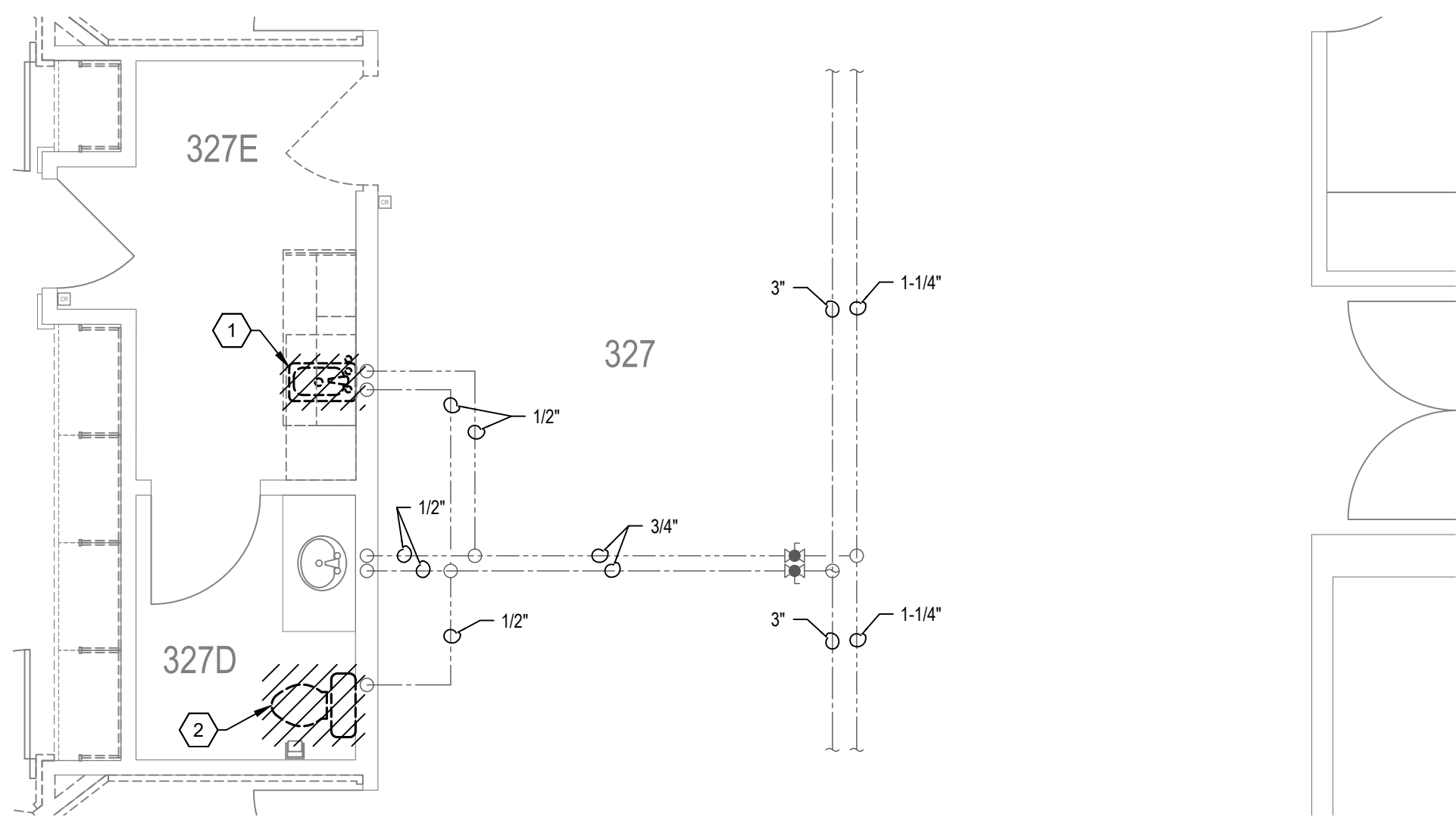


2 THIRD FLOOR SOUTH - ENLARGED PLAN  
(FOR REFERENCE ONLY) Scale: 1/16"=1'-0"

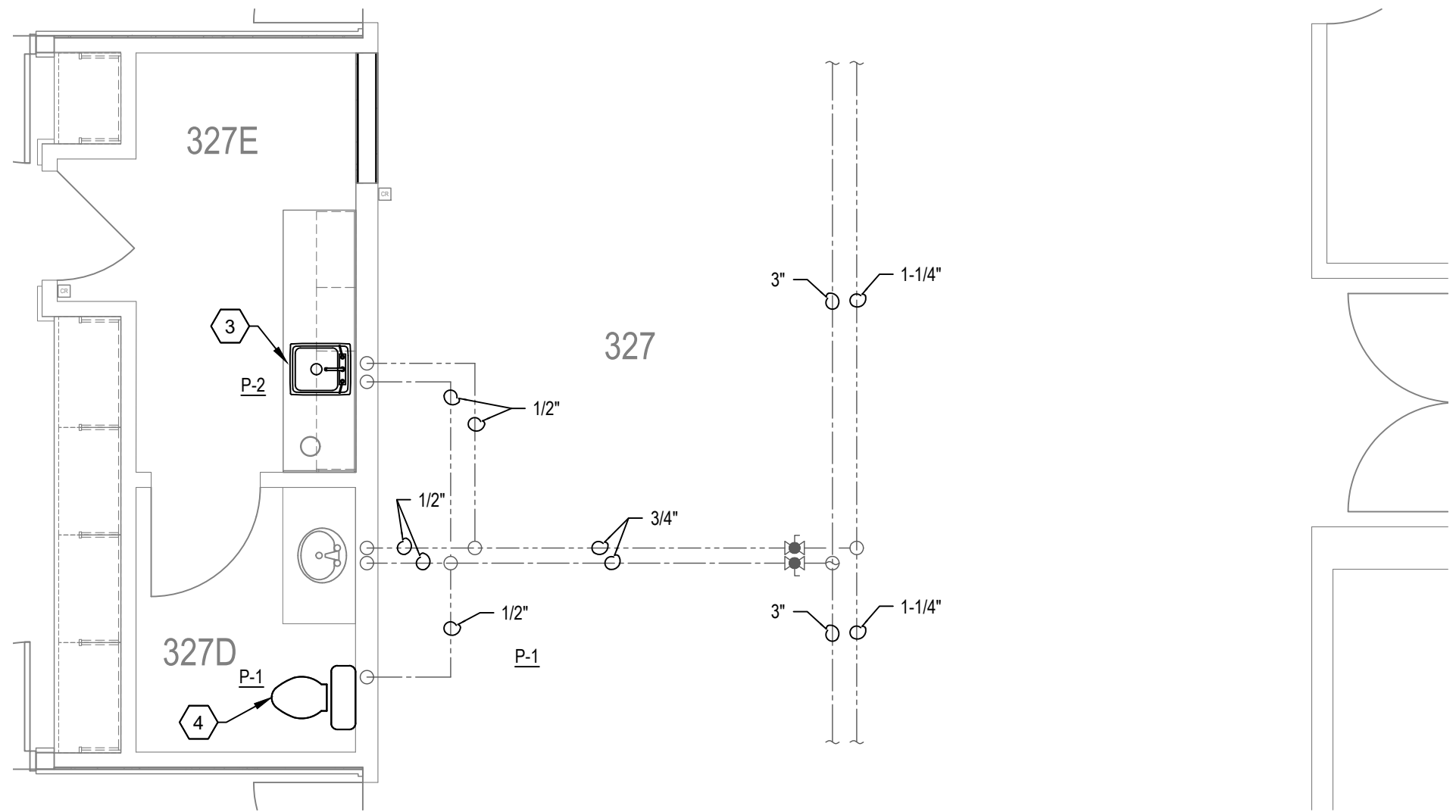


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**1 DEMOLITION PLAN - PLUMBING**  
Scale: 1/4" = 1'-0"



**2 NEW WORK PLAN - PLUMBING**  
Scale: 1/4" = 1'-0"

**LEGEND:**

- EXISTING BUILDING WALLS, DOORS, AND WINDOWS TO REMAIN
- DEMOLITION
- COMPONENT DEMOLITION
- CONNECT NEW TO EXISTING
- KEYNOTE TAG
- EQUIPMENT TAG
- DOMESTIC COLD WATER (NEW)
- DOMESTIC COLD WATER (EXISTING)
- DOMESTIC HOT WATER (NEW)
- DOMESTIC HOT WATER (EXISTING)
- PIPE ELBOW TURNING UP
- PIPE ELBOW TURNING DOWN
- BALL VALVE

**SHEET NOTES:**

1. DEMO EXISTING SINK AND FITTINGS BACK TO WALL.
2. DEMO EXISTING WATER CLOSET.
3. PROVIDE AND INSTALL NEW SINK. PROVIDE AND INSTALL NEW DOMESTIC COLD WATER CONNECTIONS, NEW DOMESTIC HOT WATER CONNECTIONS, AND NEW SANITARY DRAIN PIPE. CONNECT TO EXISTING PIPES AT WALL.
4. PROVIDE AND INSTALL NEW WATER CLOSET. PROVIDE AND INSTALL NEW DOMESTIC COLD WATER CONNECTIONS.

**GENERAL NOTES:**

- A. THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, APPARATUS, MATERIALS AND WORKMANSHIP ENTERING INTO THIS CONTRACT TO BE THE BEST OF ITS RESPECTIVE KIND AND SHALL REPLACE ALL PARTS AT HIS OWN EXPENSE, WHICH ARE PROVEN DEFECTIVE, WITHIN ONE (1) YEAR FROM FINAL ACCEPTANCE OF THE WORK BY THE PROJECT MANAGER. THE EFFECTIVE DATE OF COMPLETION OF THE WORK SHALL BE THE DATE OF THE PROJECT MANAGER'S STATEMENT OF SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL PRESENT THE PROJECT MANAGER WITH SUCH WARRANTIES AND GUARANTEES AT THE TIME OF FINAL ACCEPTANCE OF THE WORK. THE PROJECT MANAGER SHALL THEN SUBMIT THESE WARRANTIES, GUARANTEES, ETC., TO THE OWNER. THE OWNER RESERVES THE RIGHT TO USE EQUIPMENT INSTALLED BY THE CONTRACTOR PRIOR TO DATE OF FINAL ACCEPTANCE. SUCH USE OF EQUIPMENT SHALL, IN NO WAY, INVALIDATE THE GUARANTEE EXCEPT THAT THE OWNER SHALL BE LIABLE FOR ANY DAMAGE TO THE EQUIPMENT DURING THIS PERIOD DUE TO THE NEGLIGENCE OF THE OPERATOR OR OTHER EMPLOYEES.
- B. CONTRACTOR WILL FIELD-VERIFY ALL EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONTRACT DOCUMENTS WILL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE ANY WORK RELATING TO THOSE CONDITIONS IS PERFORMED.
- C. THE CONTRACTOR MUST KEEP A RECORD SET OF CONSTRUCTION DOCUMENTS ON SITE AT ALL TIMES. ALL DISCREPANCIES IN THE EXISTING CONDITIONS, ALTERNATE MATERIALS AND METHODS OF CONSTRUCTION, AND FIELD REVISIONS AND MODIFICATIONS SHALL BE RECORDED ON THESE FIELD DOCUMENTS.
- D. PROVIDE AND INSTALL ALL EQUIPMENT AND ACCESSORIES AS INDICATED, IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH PROJECT PLAN AND SPECIFICATION REQUIREMENTS.
- E. ALL WORK PERFORMED UNDER AND IN CONNECTION WITH THESE DRAWINGS AND SPECIFICATIONS SHALL BE IN STRICT COMPLIANCE WITH THE LATEST OSHA SAFETY AND HEALTH STANDARDS.
- F. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO KENTUCKY PLUMBING CODE AND FAYETTE COUNTY HEALTH DEPARTMENT.
- G. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED INSPECTIONS, PAY ALL APPLICABLE FEES, ETC. ASSOCIATED WITH INSTALLATION.
- H. NO WORK SHALL BEGIN UNTIL THE CONTRACTOR RECEIVES APPROVED PLUMBING DRAWINGS FROM THE KENTUCKY DIVISION OF PLUMBING. IN ACCORDANCE WITH K.R.S., ALL PLUMBING WORK SHALL BE CONSTRUCTED IN COMPLIANCE WITH PLANS APPROVED BY AND BEARING THE APPROVAL STAMP OF THE KY DIVISION OF PLUMBING AND, OR THE DIVISION OF DRINKING WATER. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL HE HAS RECEIVED SUCH APPROVED PLANS.
- I. PIPE HANGERS AND SUPPORTS SHALL BE FACTORY FABRICATED ACCORDING TO MSS SP-58 AND SHALL BE INSTALLED PER MSS-69. CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS STEEL REQUIRED FOR SUPPORTS AND HANGERS. DO NOT HANG ANYTHING FROM MECHANICAL OR ELECTRICAL ITEMS.
- J. PROVIDE WATER HAMMER ARRESTORS ON COLD WATER LINES TO ALL NEW FIXTURES PER PDI STANDARD WH-201.
- K. ALL EQUIPMENT, ACCESSORIES, PIPING, WIRING, AND OTHER WORK WHICH IS INSTALLED IN FINISHED SPACES WILL BE CONCEALED IN WALLS, FLOORS, FURRED CHASES OR SUSPENDED CEILINGS.
- L. ISOLATION VALVES SHALL BE PROVIDED AT ALL BRANCH TAKE-OFFS FROM SYSTEM MAINS AND RISERS AND RETURNS TO SYSTEM.
- M. COORDINATE ALL PIPING WITH BOTH NEW AND EXISTING MECHANICAL AND ELECTRICAL WORK, INCLUDING HVAC, PLUMBING, ELECTRICAL, FIRE ALARM, SPRINKLER, COMMUNICATIONS, AND EXTERIOR UTILITIES.
- N. LEAK TEST, FLUSH, AND DISINFECT ALL NEW PIPING SYSTEMS PRIOR TO ACTIVATION IN ACCORDANCE WITH LOCAL REGULATIONS.
- O. CONTRACTOR SHALL SEAL PENETRATIONS THROUGH RATED WALLS AND FLOORS WITH APPROVED FIRE SEALANT. INSTALL PER MANUFACTURER'S INSTRUCTIONS FOR APPLICABLE PIPE MATERIAL AND SIZE.
- P. PIPE PENETRATIONS THROUGH NON-RATED WALLS AND FLOORS SHALL BE SEALED AIR AND WATER TIGHT WITH MATERIALS AND FINISH TO MATCH EXISTING CONSTRUCTION.
- Q. FURNISH & INSTALL 1/2" (MIN.) FIBERGLASS INSULATION WITH ALL-SERVICE JACKET ON ALL HOT AND COLD WATER LINES.
- R. INSTALL PIPE LABELS AND DIRECTIONAL ARROWS ON ALL NEW PIPING PER UNIVERSITY STANDARD 230553.
- S. DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METALS IN PIPING AND EQUIPMENT CONNECTIONS.
- T. EXISTING PIPE TO REMAIN IN USE AND IS SHOWN FOR COORDINATION PURPOSES.
- U. CLEAN AND VERIFY CONDITION OF ALL PIPE THAT IS TO REMAIN IN USE.
- V. PATCH ALL DISTURBED SURFACES TO MATCH EXISTING CONSTRUCTION UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR FINISH.
- W. PIPING CONNECTED TO EQUIPMENT MAY REQUIRE DIFFERENT SIZE CONNECTIONS THAN INDICATED ON THE DRAWINGS. PROVIDE TRANSITION PIECES AS REQUIRED FOR EQUIPMENT.
- X. REMOVAL OF EQUIPMENT AND PIPING SHALL INCLUDE ALL HANGERS AND SUPPORTS ASSOCIATED WITH THE EQUIPMENT AND PIPING TO BE REMOVED.
- Y. ALL PIPING SHALL BE RAN PARALLEL TO BUILDING LINES AND BE SUPPORTED AND ANCHORED AS REQUIRED TO ALLOW FOR EXPANSION AND CONTRACTION. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK, INCLUDING DUCTS AND ELECTRICAL CONDUIT. ALL PIPING EXPOSED TO VIEW SHALL BE ROUTED AS HIGH AS POSSIBLE TO THE UNDERSIDE OF THE STRUCTURE.
- Z. ALL SLOPED PLUMBING SYSTEMS SHALL HAVE RIGHT-OF-WAY OVER ALL OTHER BUILDING SYSTEM COMPONENTS.
- AA. ROUTE PIPING IN ORDERLY MANNER, PARALLEL TO BUILDING STRUCTURE, AND MAINTAIN GRADIENT.
- AB. ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
- AC. ALL INCREASERS AND REDUCERS IN PIPING SYSTEM ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL INCREASERS AND REDUCERS WHERE REQUIRED.
- AD. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL OR ELEVATOR EQUIPMENT.
- AE. INSTALL GROUP OF PIPES PARALLEL TO EACH OTHER, SPACED TO PERMIT APPLYING INSULATION AND SERVICING OF VALVES. WHERE SEVERAL PIPES CAN BE INSTALLED IN PARALLEL AND AT SAME ELEVATION, PROVIDE MULTIPLE OR TRAPEZE HANGERS.
- AF. SLEEVE PIPE PASSING THROUGH PARTITIONS, WALLS AND FLOORS ALLOWING ADEQUATE SPACE FOR PIPE INSULATION.
- AG. SLOPE PIPING AT 0.2 PERCENT UPWARD IN DIRECTION OF FLOW AND ARRANGE TO DRAIN AT LOW POINTS.
- AH. INSTALL PIPE TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.
- AI. USE ECCENTRIC REDUCERS TO MAINTAIN TOP OF PIPE LEVEL.
- AJ. UNLESS OTHERWISE INDICATED, INSTALL BRANCH CONNECTIONS TO MAINS USING TEE FITTINGS IN MAIN PIPE, WITH THE TAKEOFF COMING THE BOTTOM OF THE MAIN PIPE, FOR UP-FEED RISERS, INSTALL THE TAKEOFF COMING OUT OF THE TOP OF THE PIPE.
- AK. ANCHOR PIPING FOR PROPER DIRECTION OF EXPANSION AND CONTRACTION.
- AL. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW. PROVIDE ENGINEERED SEISMIC CONSTRAINTS AND BRACING WHERE REQUIRED.
- AM. UNLESS OTHERWISE INDICATED, MATCH EXISTING PIPING SYSTEM MATERIALS WITHIN THE BUILDING WHERE WORK IS BEING PERFORMED.
- AN. ALL PIPING AND ACCESSORY MATERIALS SHALL BE NEW AND UNUSED.
- AO. STORED MATERIALS SHALL BE KEPT FREE FROM DAMAGE. INTERIORS OF PIPE AND APPURTENANCES SHALL BE KEPT FREE FROM DIRT OR OTHER FOREIGN MATTER AT ALL TIMES.
- AP. ESCUTCHEONS SHALL BE PROVIDED AT ALL FINISHED SURFACES WHERE EXPOSED PIPING, BARE OR INSULATED, PASSES THROUGH FLOORS, WALLS, OR CEILINGS. ESCUTCHEONS SHALL BE FASTENED SECURELY TO PIPE SLEEVES OR TO EXTENSIONS OF SLEEVES WITHOUT ANY PART OF SLEEVES BEING VISIBLE. ESCUTCHEONS MUST BE SINGLE-PIECE CONSTRUCTION.
- AQ. CONTRACTOR WILL MAKE MINOR OFFSETS AND LOCATION CHANGES IN PIPE AS REQUIRED IN CONGESTED CEILING.
- AR. WHERE PIPE IS PENETRATE INTERIOR OR EXTERIOR WALLS, THE WALL OPENING SHALL BE SEALED AIR TIGHT.
- AS. ALL SINK AND LAVATORY TRAPS SHALL HAVE THREADED INSERTS IN THE BOTTOM FOR CLEANING AND MECHANICAL FITTINGS FOR EASE OF REMOVAL.

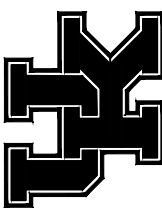
**SPECIFICATIONS:**

- A. DOMESTIC WATER PIPING SHALL BE TYPE L HARD DRAWN COPPER TUBING (ASTM B88) WITH CAST COPPER ALLOY (ASME B16.18) OR WROUGHT COPPER SOLDER FITTINGS (ASME B16.22). ALL VALVES 2" AND SMALLER SHALL BE A TWO-PIECE, BRONZE BODY BALL VALVE WITH SS FULL PORT BALL, TFE SEAT RINGS, AND SOLDERED CONNECTIONS. SOLDER SHALL CONFORM TO SOLDER ALLOY SN95 (ASTM B32).
- B. SOIL, WASTE, & VENT PIPING SHALL BE CAST IRON NO HUB 301-72 ABOVE GRADE, MECHANICAL JOINTS W/S S. CLAMPS BELOW GRADE. ABOVE-GRADE DRAIN AND WASTE PIPING CAN BE DWV COPPER WITH LEAD-FREE SOLDER JOINTS. FITTINGS SHALL BE DWV CAST OR WROUGHT COPPER.

PLUMBING FIXTURE SCHEDULE							
MARK	DESCRIPTION	TRAP	WASTE	VENT	HOT	COLD	REMARKS
P-1	WATER CLOSET, FLOOR MOUNT, PRESSURE ASSIST	-	4"	4"	-	1/2"	1,3,4
P-2	SINK, SINGLE BOWL DROP-IN, MIXING FAUCET	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	2,3

**REMARKS:**

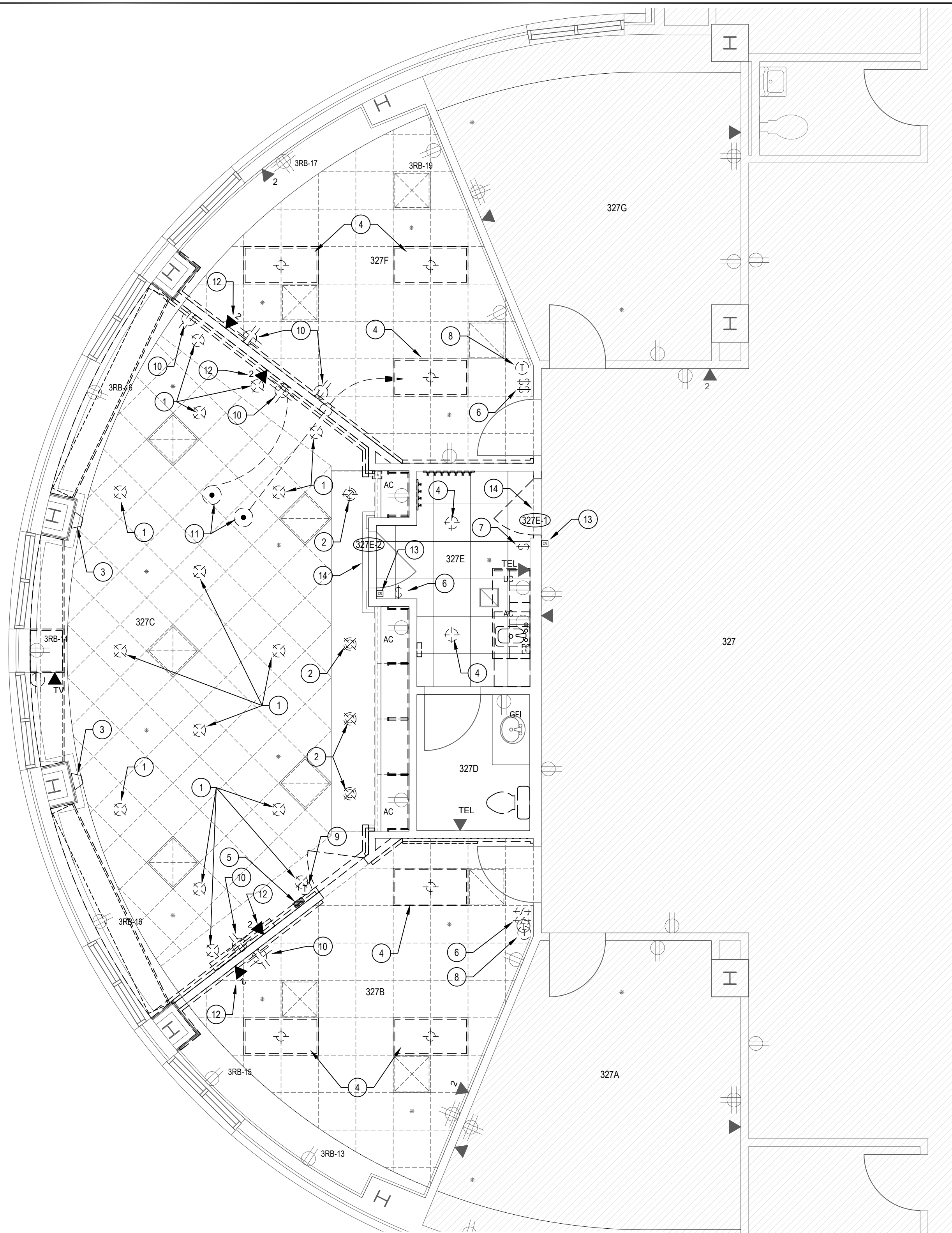
1. BASIS OF DESIGN: AMERICAN STANDARD, VITREOUS CHINA FLOOR-MOUNT WATER CLOSET, WITH 1.6 GPF, 4" SELF-CLOSING, PISTON ACTION ACCELERATOR FLUSH VALVE.
2. BASIS OF DESIGN: JUST MFG., MODEL SLX2017A2-J, STAINLESS STEEL SINK, 20" X 17", 1-1/4" OUTLET, 4" HOLE CENTERS, WITH GRID STRAINER, TAILPIECE AND P-TRAP. FAUCET: ZURN FAUCET MODEL Z87144-XL-18F, GOOSE-NECK, 1.5 GPM, MANUAL OPERATED.
3. OR APPROVED EQUAL
4. TOILET SEAT: SLOW CLOSE SEAT INCLUDED.



REVISIONS	
NO.	DATE

BUILDING NO: 200  
DESIGNED BY: BL  
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CHECKED BY: TA  
APPROVED BY: PK  
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DATE: 12/14/2023  
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1 3RD FLOOR SUITE 327 RENOVATION - ELECTRICAL DEMOLITION PLAN

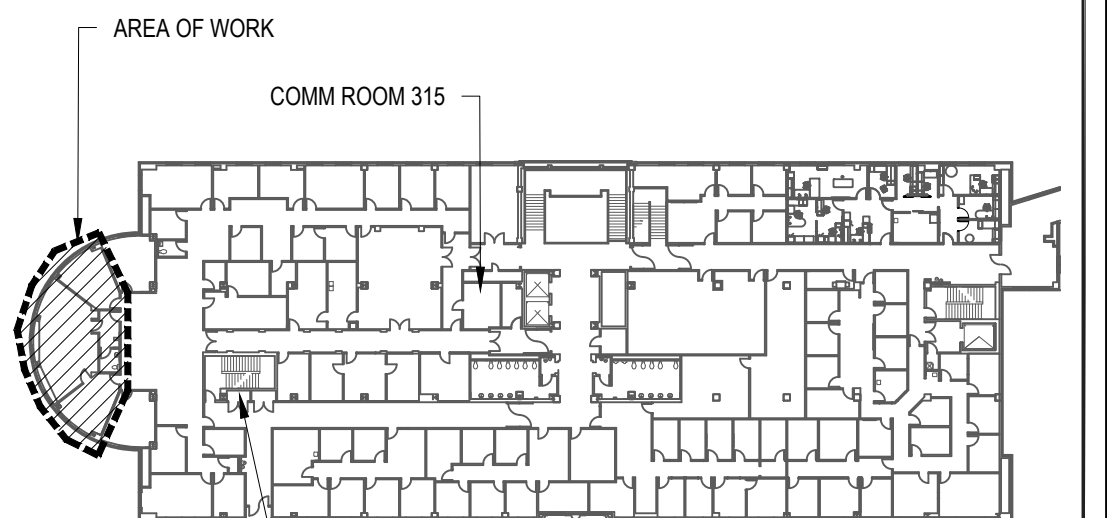
Scale: 1/4" = 1'-0"

**GENERAL ELECTRICAL DEMOLITION NOTES:**

- A. CARE SHOULD BE TAKEN BY DEMOLITION PERSONNEL TO AVOID DAMAGING OR DISTURBING EXISTING CONSTRUCTION WHICH IS INDICATED TO REMAIN. MCPPD PERSONNEL SHALL BE RESPONSIBLE FOR MAKING ANY REPAIRS NECESSARY TO RECTIFY DAMAGE AND RESTORE EXISTING CONSTRUCTION TO UNDAMAGED STATE UPON COMPLETION OF WORK AT NO EXPENSE TO CUSTOMER.
- B. REFER TO NEW CONSTRUCTION DRAWINGS AND SPECIFICATIONS PRIOR TO BEGINNING DEMOLITION WORK FOR COORDINATION WITH SAME.
- C. UNLESS NOTED OTHERWISE SHOWN OR SPECIFIED, ALL MATERIALS AND EQUIPMENT REMOVED OR DEMOLISHED (EXCEPT THAT WHICH IS TO BE SALVAGED OR RELOCATED) AS DIRECTED BY DRAWINGS AND SPECIFICATIONS SHALL BECOME THE PROPERTY OF THE UNIVERSITY AND SHALL BE LEGALLY DISPOSED OF.
- D. DEMOLITION PERSONNEL SHALL GIVE A MINIMUM NOTICE OF 48 HOURS TO CUSTOMER PRIOR TO SHUT-DOWN OF ANY EXISTING UTILITIES.
- E. WHERE EXISTING WALLS OR PARTITIONS ARE TO BE REMOVED, CUT ALL BRANCH CIRCUITS AND CONDUITS FLUSH WITH FLOOR AND REMOVE CONDUCTORS.
- F. REWORK BRANCH CIRCUITS AS REQUIRED TO CONTINUE SERVICE TO ALL DEVICES, LIGHTING AND EQUIPMENT THAT ARE TO REMAIN AND DISCONNECTED FROM SERVICE BY DEMOLITION.
- G. ELECTRICALLY DISCONNECT ALL ELECTRICAL EQUIPMENT (BEING REMOVED BY DEMOLITION) BACK AT PANELBOARD.
- H. ALL CONDUIT AND WIRE FOR EQUIPMENT LOCATED OUTSIDE AREA OF DEMOLITION SHALL REMAIN IN SERVICE. CAREFULLY COORDINATE WITH OTHER REPRESENTATIVES THE EXACT METHOD OF RE-ROUTING ANY CONDUIT AND WIRE TO EQUIPMENT REMAINING.
- I. ALL CONDUIT AND WIRE REMOVED SHALL BE REMOVED COMPLETELY BACK TO NEAREST JUNCTION BOX OR AT SOURCE PANEL AND BRANCH DEVICES PROPERLY LABELED "SPARE".

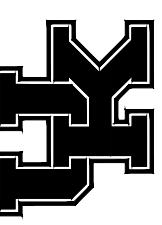
**TAGGED DEMOLITION NOTES:** (X)

1. DEMO EXISTING RECESSED CAN LIGHT FIXTURES IN ROOMS 327C. THIS INCLUDES THE REMOVAL OF ALL ASSOCIATED WIRING AND CONDUIT BACK TO THE LUTRON FDBI (FLUORESCENT DIMMING BALLAST INTERFACE) LOCATED ABOVE CEILING IN THIS ROOM. THIS WILL BE TYPICAL OF (2) FDBI MODULES ABOVE THE CEILING. IN ADDITION, DEMO BOTH OF THE FDBI MODULES AND LEAVE THE EXISTING WIRING IN A J-BOX, ABOVE THE CEILING, AT THE LOCATIONS OF THE DEMO'D FDBI MODULES. DEMO'D LIGHT FIXTURES TO BE DISPOSED OF IN AN APPROPRIATE MANNER.
2. DEMO THE INTERIOR TRIM AND LAMP OF THE EXISTING CAN LIGHTS IN THE DRYWALL SOFFIT ABOVE THE BOOKSHELVES. THE FIXTURE HOUSING IS TO REMAIN IN THE SOFFIT TO ACCEPT NEW LED RETROFIT DOWNLIGHT. THE CONDUIT AND WIRING ASSOCIATED WITH THESE FIXTURES IS TO REMAIN FOR RECONNECTION TO NEW LED RETROFIT DOWNLIGHT. DEMO'D CAN LIGHT FIXTURE COMPONENTS TO BE DISPOSED OF IN AN APPROPRIATE MANNER.
3. DEMO EXISTING WALL SCONCE. THIS INCLUDES THE REMOVAL OF THE LUTRON 0-10V INTERFACE, LOCATED ABOVE THE DROP CEILING, AND ALL FIXTURE WIRING AFTER THE INTERFACE. ASSOCIATED CONDUIT AND BACK BOX IN WALL TO REMAIN FOR REPLACEMENT FIXTURE. DEMO'D WALL SCONCE LIGHT FIXTURES TO BE DISPOSED OF IN AN APPROPRIATE MANNER.
4. DEMO EXISTING LIGHT FIXTURES IN ROOMS 327B, 327F, AND 327E COMPLETELY, INCLUDING ALL ASSOCIATED CONDUIT AND WIRING BACK TO AN ABOVE CEILING J-BOX WITHIN THE ROOM. THE WIRING REMAINING IN THIS ABOVE CEILING J-BOX SHOULD BE AN UNSWITCHED CIRCUIT SERVING THE LIGHTING IN EACH ROOM. DEMO'D LIGHT FIXTURES TO BE DISPOSED OF IN AN APPROPRIATE MANNER.
5. DEMO EXISTING LUTRON GRAFIK EYE LIGHTING CONTROL SYSTEM COMPLETELY. THIS INCLUDES REMOVAL OF THE ASSOCIATED ABOVE-CEILING INTERFACES (TYPICAL OF 2 FLUORESCENT AND 1 0-10V) AND TWO REMOTE WALL PODS AND ALL ASSOCIATED WIRING BACK TO THE CLOSEST J-BOX. THE ASSOCIATED BACK BOX AND CONDUIT ARE TO REMAIN.
6. DEMO EXISTING TOGGLE SWITCHES CONTROLLING LIGHTS, IN ROOMS 327F AND 327B, INCLUDING THE REMOVAL OF ALL LIGHTING CONTROL WIRING. ASSOCIATED BACKBOX AND CONDUIT ARE TO REMAIN FOR RE-USE. DEMO EXISTING POWER RECEPTACLE(S) IN DEMO WALL. THIS INCLUDES THE REMOVAL OF THE ASSOCIATED BACK BOX, CONDUIT AND WIRING TO THE CLOSEST ACTIVE POWER RECEPTACLE.
7. DEMO EXISTING TOGGLE SWITCH IN ROOM 327E COMPLETELY INCLUDING ALL SWITCHED WIRING TO THE FIXTURES. BACKBOX AND CONDUIT TO REMAIN IN PLACE. PROVIDE BLANK FACEPLATE FOR BACK BOX.
8. DEMO EXISTING THERMOSTAT IN ROOMS 327B AND 327F. THIS INCLUDES REMOVAL OF THE ASSOCIATED CONTROL WIRING BETWEEN THE THERMOSTAT AND THE ASC CONTROLLER ON THE VAV UNIT. BACK BOX AND CONDUIT TO REMAIN IN PLACE.
9. DEMO EXISTING THERMOSTAT COMPLETELY IN DEMO'D WALL. THIS INCLUDES THE REMOVAL OF THE BACK BOX, CONDUIT AND ALL ASSOCIATED CONTROL WIRING BACK TO THE ASC CONTROLLER ON THE VAV UNIT ABOVE THE DROP CEILING.
10. DEMO EXISTING POWER RECEPTACLE(S) FROM DEMO'D WALL COMPLETELY. THIS INCLUDES THE REMOVAL OF ALL ASSOCIATED CONDUIT AND WIRING BACK TO THE CLOSEST ACTIVE J-BOX ABOVE THE DROP CEILING.
11. DEMO POWER RECEPTACLE AND DATA OUTLET FROM THE FLOOR BOXES IN ROOM 327C. THIS INCLUDES REMOVAL OF ALL POWER WIRING FOR THE POWER RECEPTACLE BACK TO THE CLOSEST ACTIVE POWER OUTLET AND COMPLETE REMOVAL OF THE DATA CABLING BACK TO THE SERVER ROOM. FLOOR BOXES AND CONDUIT TO BE ABANDONED IN PLACE. PROVIDE A HUBBELL #S1AP4BL ABANDONMENT COVER FOR EACH FLOOR BOX.
12. DEMO EXISTING DATA OUTLET(S) COMPLETELY. THIS INCLUDES THE REMOVAL OF ANY ASSOCIATED BACKBOX, CONDUIT AND DATA WIRING BACK TO THE COMMUNICATION ROOM.
13. DEMO EXISTING CARD READERS ON DOORWAYS 327E-1 AND 327E-2. ABANDON BACK BOX AND CONDUIT IN PLACE AND PROVIDE A BLANK COVER PLATE FOR BOTH BACK BOXES. EXISTING SECURITY CABLE TO REMAIN FOR RE-USE. COIL SECURITY CABLE UP ABOVE THE CEILING AT EACH DOORWAY. DEMO'D CARD READERS TO BE TURNED OVER TO UK CONTROLS.
14. DEMO EXISTING "REQUEST-TO-EXIT" (REX) DEVICE ON DOORWAYS 327E-1 AND 327E-2. THIS INCLUDES THE REMOVAL OF ANY ASSOCIATED CONDUIT CONNECTING THESE DEVICES TO THE ABOVE CEILING J-BOX WITH DOOR ACCESS SECURITY CABLE. SEE NOTE #13 REGARDING ASSOCIATED SECURITY CABLE.



3RD FLOOR - WETHINGTON

Scale: 1" = 60'



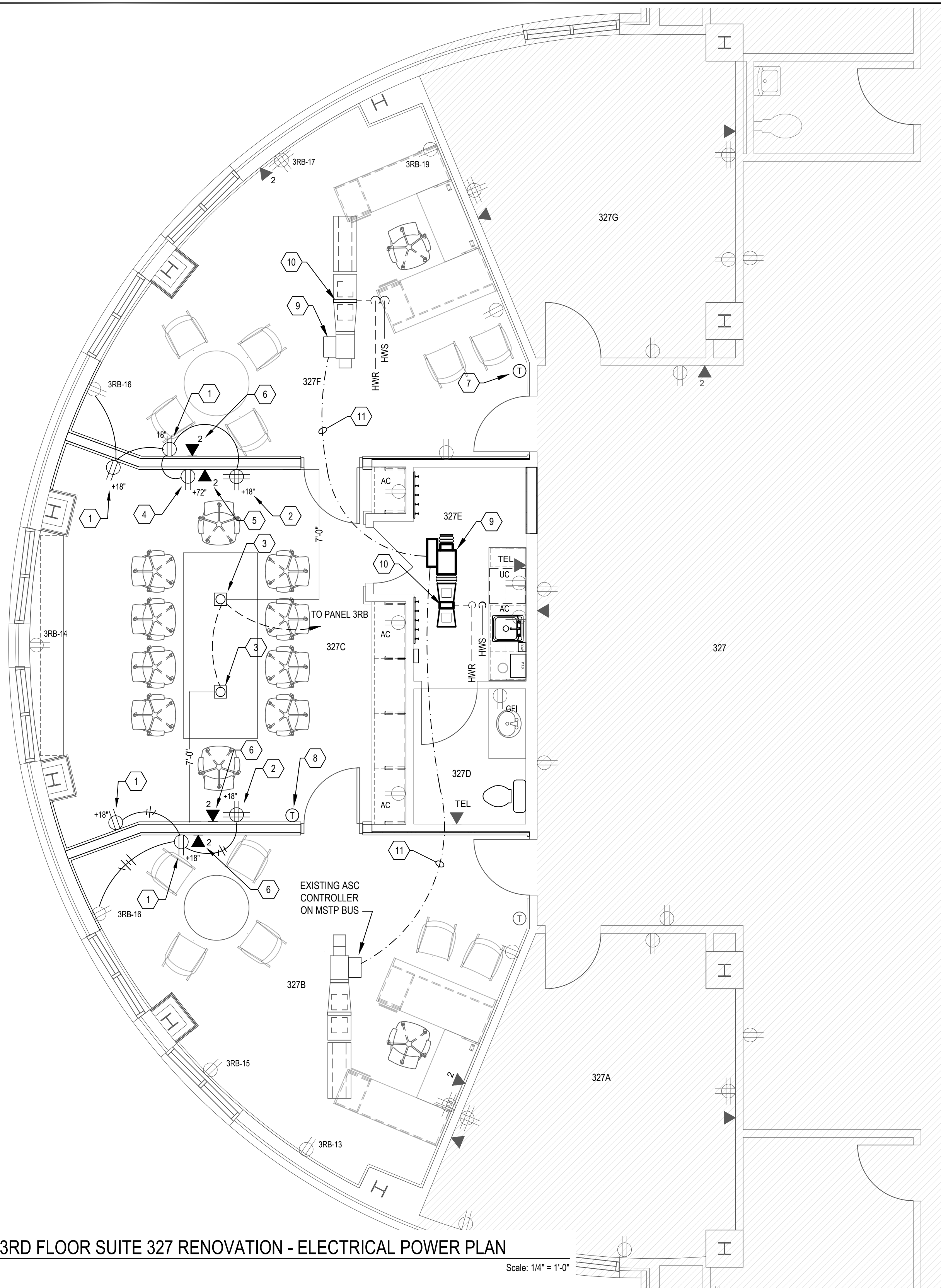
REVISIONS	
NO.	DATE

BUILDING NO: 200  
DESIGNED BY: JWB  
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### 3RD FLOOR SUITE 327 RENOVATION - ELECTRICAL POWER PLAN

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



#### GENERAL NEW WORK NOTES:

- A. VERIFY EXACT MOUNTING LOCATION AND CONNECTION REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.
- B. ALL DEVICES AND JUNCTION BOXES SHALL BE MOUNTED IN AN ACCESSIBLE LOCATION.
- C. ALL CONDUIT PENETRATIONS THROUGH RATED WALLS, FLOORS, AND CEILINGS SHALL BE FIRE STOPPED WITH APPROVED FIRE SEALANT.
- D. AT THE COMPLETION OF THE PROJECT REVISED TYPEWRITTEN CIRCUIT DIRECTORIES IN ALL BRANCH CIRCUIT PANEL BOARDS UTILIZED TO SERVE NEW CIRCUITS. REVISED DIRECTORIES SHALL REFLECT ALL REVISIONS MADE DURING THE RENOVATION OF THE PROJECT AREA.
- E. IF EXISTING CEILING TILES ARE REMOVED FOR MORE THAN 8 HOURS, DURING CONSTRUCTION, CEILING MOUNTED HEAT DETECTORS SHALL BE INSTALLED ON THE CEILING STRUCTURE AT APPROPRIATE INTERVALS AND CONNECTED TO THE EXISTING FIRE ALARM N.A.C. CIRCUIT SERVING THIS AREA. THESE HEAT DETECTORS SHALL REMAIN IN OPERATION UNTIL THE CEILING TILES ARE REPLACED SO THAT THE FIRE ALARM CAN OPERATE AS DESIGNED.

#### NEW ELECTRICAL WORK TAG NOTES: (X)

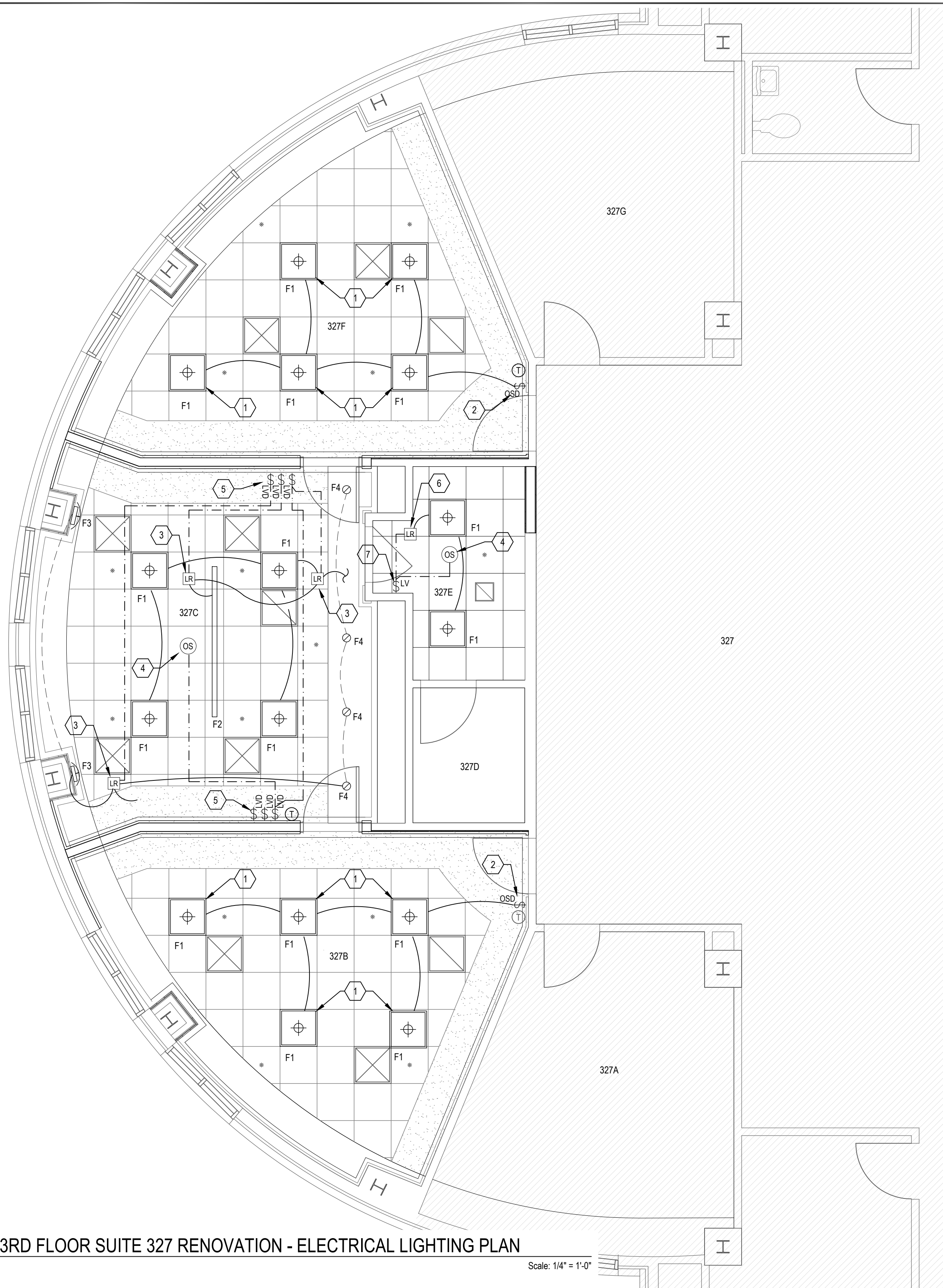
1. PROVIDE AND INSTALL NEW 2X4 RECESSED BACK BOX WITH A 120V, 20A DUPLEX POWER RECEPTACLE IN NEW WALL. MOUNT BOX AT 18" (MIDDLE OF BOX) ABOVE FINISHED FLOOR. CONNECT NEW DUPLEX POWER OUTLET(S) TO CLOSEST ACTIVE POWER OUTLET WITH (2) #12 AWG + (1) #12 Cu GND IN 3/4" CONDUIT.
2. PROVIDE AND INSTALL NEW 4X4 RECESSED BACK BOX WITH (2) 120V, 20A DUPLEX POWER RECEPTACLES IN NEW WALL. MOUNT BOX AT 18" (MIDDLE OF BOX) ABOVE FINISHED FLOOR. CONNECT NEW POWER OUTLET(S) TO CLOSEST ACTIVE POWER OUTLET CIRCUIT WITH (2) #12 AWG CU + (1) #12 CU GND IN 3/4" CONDUIT TO EACH NEW 4-PLEX OUTLET.
3. PROVIDE AND INSTALL (2) NEW RECESSED 6 INCH FIRE-RATED POKE-THROUGH FITTINGS FOR CONCRETE FLOOR. POKE-THROUGH TO BE HUBBELL SYSTEM ONE SERIES WITH (2) 120V, 20A DUPLEX POWER RECEPTACLES.
4. PROVIDE AND INSTALL NEW 4X4 RECESSED BACK BOX WITH A 120V, 20A DUPLEX POWER RECEPTACLE IN NEW WALL. MOUNT BOX AT 72" (MIDDLE OF BOX) ABOVE FINISHED FLOOR. CUT EXISTING WALL, AND REPAIR, AS REQUIRED. UTILIZE A SPARE 20A/1P CIRCUIT BREAKER, IN PANEL P2E2(2) AND INSTALL NEW (2) #12 AWG CU + (1) #12 CU GND IN 3/4" CONDUIT TO THIS NEW DUPLEX OUTLET.
5. PROVIDE AND INSTALL NEW RECESSED 5" X 5" X 2-7/8" COMMUNICATION BOX (STEEL CITY 82181T-1-114) AND A SINGLE-GANG DEVICE COVER (STEEL CITY 82C-1G-1 / 2) FOR NEW DATA OUTLET, BEHIND TV MONITOR, IN NEW WALL. MOUNT BOX AT HEIGHT EQUAL TO ITS ASSOCIATED POWER OUTLET HEIGHT. INSTALL A 1-1/4" EMT CONDUIT FROM THIS NEW BOX TO THE COMMUNICATION ROOM 315. COORDINATE WITH CNS TO PROVIDE NEW DATA WIRING AND TERMINATIONS TO THIS NEW COMMUNICATION BOX. THE NUMBER NEXT TO THE DATA OUTLET DENOTES QUANTITY OF CABLES AND TERMINATION JACKS.
6. PROVIDE AND INSTALL NEW RECESSED 5" X 5" X 2-7/8" COMMUNICATION BOX (STEEL CITY 82181T-1-114) AND A SINGLE-GANG DEVICE COVER (STEEL CITY 82C-1G-1 / 2) FOR NEW DATA OUTLET, WITH CATEGORY 6 CABLE JACKS, IN NEW WALL. MOUNT BOX AT 18" (TO MIDDLE OF BOX) ABOVE FINISHED FLOOR. INSTALL A 1-1/4" EMT CONDUIT FROM THIS NEW BOX TO THE EXISTING ABOVE CEILING CABLE TRAY IN THE CORRIDOR. COORDINATE WITH CNS TO PROVIDE NEW DATA WIRING, FROM DATA CLOSET 315, AND TERMINATIONS TO THIS NEW COMMUNICATION BOX. THE NUMBER NEXT TO THE DATA OUTLET DENOTES QUANTITY OF CABLES AND TERMINATION JACKS.
7. PROVIDE AND INSTALL A NEW 2x4 BACK BOX IN NEW WALL FOR AN HVAC THERMOSTAT. MOUNT BOX AT 48" (MIDDLE OF BOX) ABOVE FINISHED FLOOR. INSTALL A 3/4" EMT CONDUIT FROM THIS NEW BACK BOX AND TO THE CONTROLLER ENCLOSURE ON THE VAV UNIT IT IS SERVING ABOVE DROP CEILING.
8. UTILIZE THE EXISTING BACK BOX AND CONDUIT TO INSTALL A NEW DIGITAL THERMOSTAT AND THERMOSTAT CONTROL CABLE FOR THE NEW VAV UNIT ABOVE ROOM 327E. UK CONTROLS IS RESPONSIBLE FOR PROVIDING THE NEW THERMOSTAT. E.C. IS RESPONSIBLE FOR PROVIDING THE THERMOSTAT CONTROL CABLE. SEE IC-001 FOR ADDITIONAL INFORMATION
9. AS PART OF THE BAS CONTROLS UPGRADE, NEW ASC CONTROLLERS ARE BEING PROVIDED BY OTHERS TO REPLACE THE EXISTING CONTROLLERS ON THE VAV UNITS SERVING ROOMS 327E AND 327C. ELECTRICAL CONTRACTOR IS TO RE-CONNECT EXISTING 24VDC POWER TO EACH OF THESE NEW ASC CONTROLLERS. SEE IC-001 FOR ADDITIONAL INFORMATION
10. E.C. TO PROVIDE AND INSTALL WIRE AND CONDUIT FOR THE NEW REHEAT VALVES ON THE VAV UNITS IN ROOMS 32C AND 327E
11. E.C. TO INSTALL #22 AWG, 2-PAIR SHIELDED DATA CABLE, IN 3/4" CONDUIT, FROM THE EXISTING ASC CONTROLLER, IN ROOM 327B, TO THE EACH OF THE NEW ASC CONTROLLERS IN ROOMS 327C AND 327. DAISY CHAIN CONTROLLERS TOGETHER USING THIS DATA CABLE AND TERMINATE EACH DATA CABLE ON THE NEXT ASC CONTROLLERS. SEE IC-001 FOR ADDITIONAL INFORMATION



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 CHECKED BY: TA  
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 PROJECT NO: 2771.0  
 DATE: 12/14/2023  
 DRAWING NUMBER:





**GENERAL NEW WORK NOTES:**

- A. VERIFY EXACT MOUNTING LOCATION AND CONNECTION REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.
- B. ALL DEVICES AND JUNCTION BOXES SHALL BE MOUNTED IN AN ACCESSIBLE LOCATION.
- C. ALL CONDUIT PENETRATIONS THROUGH RATED WALLS, FLOORS, AND CEILINGS SHALL BE FIRE STOPPED WITH APPROVED FIRE SEALANT.
- D. AT THE COMPLETION OF THE PROJECT REVISED TYPEWRITTEN CIRCUIT DIRECTORIES IN ALL BRANCH CIRCUIT PANEL BOARDS UTILIZED TO SERVE NEW CIRCUITS. REVISED DIRECTORIES SHALL REFLECT ALL REVISIONS MADE DURING THE RENOVATION OF THE PROJECT AREA.

**ELECTRICAL NEW WORK NOTES:** (X)

1. PROVIDE AND INSTALL NEW LED LIGHTING FIXTURES IN NEW CEILING GRID. UTILIZE THE LIGHTING CIRCUIT SERVING THE AREA AND INSTALL NEW WIRING, INCLUDING DIMMING CONTROL WIRES, IN 3/4" EMT CONDUIT TO THESE NEW LIGHTING FIXTURES. FINAL CONNECTION TO NEW FIXTURES TO BE IN FLEXIBLE CONDUIT.
2. IN ROOMS 327B, 327C AND 327F, PROVIDE AND INSTALL A NEW WALL MOUNTED OCCUPANCY SENSOR DIMMER SWITCH IN AN EXISTING RECESSED BACK BOX. UTILIZE THIS NEW CONDUIT TO ROUTE THE NEW LIGHTING CIRCUITRY, WITH 0-10V DIMMING CONTROL WIRES (PURPLE AND GRAY), THROUGH THESE NEW DIMMER SWITCHES FOR CONTROL. SEE LIGHT CONTROL DEVICE SCHEDULE ON SHEET E-400 FOR DEVICE SPECIFICATION.
3. IN ROOMS 327C, PROVIDE NEW DIMMABLE POWER PACKS FOR LOW VOLTAGE CONTROL OF NEW LED LIGHT FIXTURE TYPES F1 & F2. FOR EACH POWER SUPPLY, PROVIDE AND INSTALL A 4X4 JUNCTION BOX, ABOVE THE DROP CEILING, FOR MOUNTING OF THE POWER SUPPLY. UTILIZE THE EXISTING LIGHTING CIRCUIT SERVING THIS ROOM, "3LB-12", TO POWER THESE NEW LIGHT FIXTURES. ROUTE THE NEW POWER WIRING THROUGH THESE POWER RELAYS, ALONG WITH NEW 0-10V DIMMING CONTROL WIRES, FOR CONTROL OF THE NEW LIGHT FIXTURES (SEE POWER PACK WIRING SCHEMATIC ON SHEET E-400). NEW LIGHTING CIRCUITRY TO BE INSTALLED IN 3/4" CONDUIT BETWEEN POWER PACK AND LIGHT FIXTURE. SEE LIGHT CONTROL DEVICE SCHEDULE ON SHEET E-400 FOR DEVICE SPECIFICATION.
4. IN ROOMS 327C AND 327E, PROVIDE AND INSTALL A NEW CEILING MOUNTED OCCUPANCY SENSOR WITH DUAL TECHNOLOGY DETECTION AND A LOW VOLTAGE AUXILIARY RELAY. PROVIDE AND INSTALL NEW CONDUIT AND INSTALL NEW CAT 5 DATA CABLE FROM NEW WALL SWITCH TO NEW POWER PACK IN THESE ROOMS. SEE LIGHT CONTROL DEVICE SCHEDULE ON SHEET E-400 FOR DEVICE SPECIFICATION.
5. IN ROOM 327C, PROVIDE AND INSTALL NEW WALL MOUNTED DIMMER SWITCHES IN NEW 3-GANG BACK BOXES. PROVIDE AND INSTALL NEW CONDUIT AND INSTALL NEW CAT 5 DATA CABLE FROM NEW WALL SWITCH TO NEW POWER PACK IN THESE ROOMS. SEE LIGHT CONTROL DEVICE SCHEDULE ON SHEET E-400 FOR DEVICE SPECIFICATION.
6. IN ROOM 327E, PROVIDE NEW POWER PACK FOR LOW VOLTAGE CONTROL OF NEW LED LIGHT FIXTURES. PROVIDE AND INSTALL A 4X4 JUNCTION BOX, ABOVE THE DROP CEILING, FOR ATTACHMENT OF THIS NEW POWER SUPPLY. ROUTE THE NEW LIGHTING CIRCUITRY THROUGH THIS POWER RELAY FOR CONTROL. SEE LIGHT CONTROL DEVICE SCHEDULE ON SHEET E-400 FOR DEVICE SPECIFICATION.
7. IN ROOM 327E, PROVIDE AND INSTALL NEW LOW VOLTAGE ON/OFF SWITCH IN EXISTING BACK BOX. UTILIZE EXISTING CONDUIT AND INSTALL NEW CAT 5 DATA CABLE FROM NEW WALL SWITCH TO NEW POWER PACK IN THIS ROOM. SEE LIGHT CONTROL DEVICE SCHEDULE ON SHEET E-400 FOR DEVICE SPECIFICATION.

**LIGHTING CONTROL LEGEND**

- POWER/RELAY PACK FOR LIGHTING CONTROL
- CEILING MOUNTED OCCUPANCY SENSOR
- LOW VOLTAGE DIMMING MODULE
- LOW VOLTAGE ON/OFF SWITCH
- LINE VOLTAGE DIMMER SWITCH WITH INTEGRAL OCCUPANCY SENSOR
- CAT 5 DATA CABLE FOR LIGHTING CONTROL COMMUNICATION

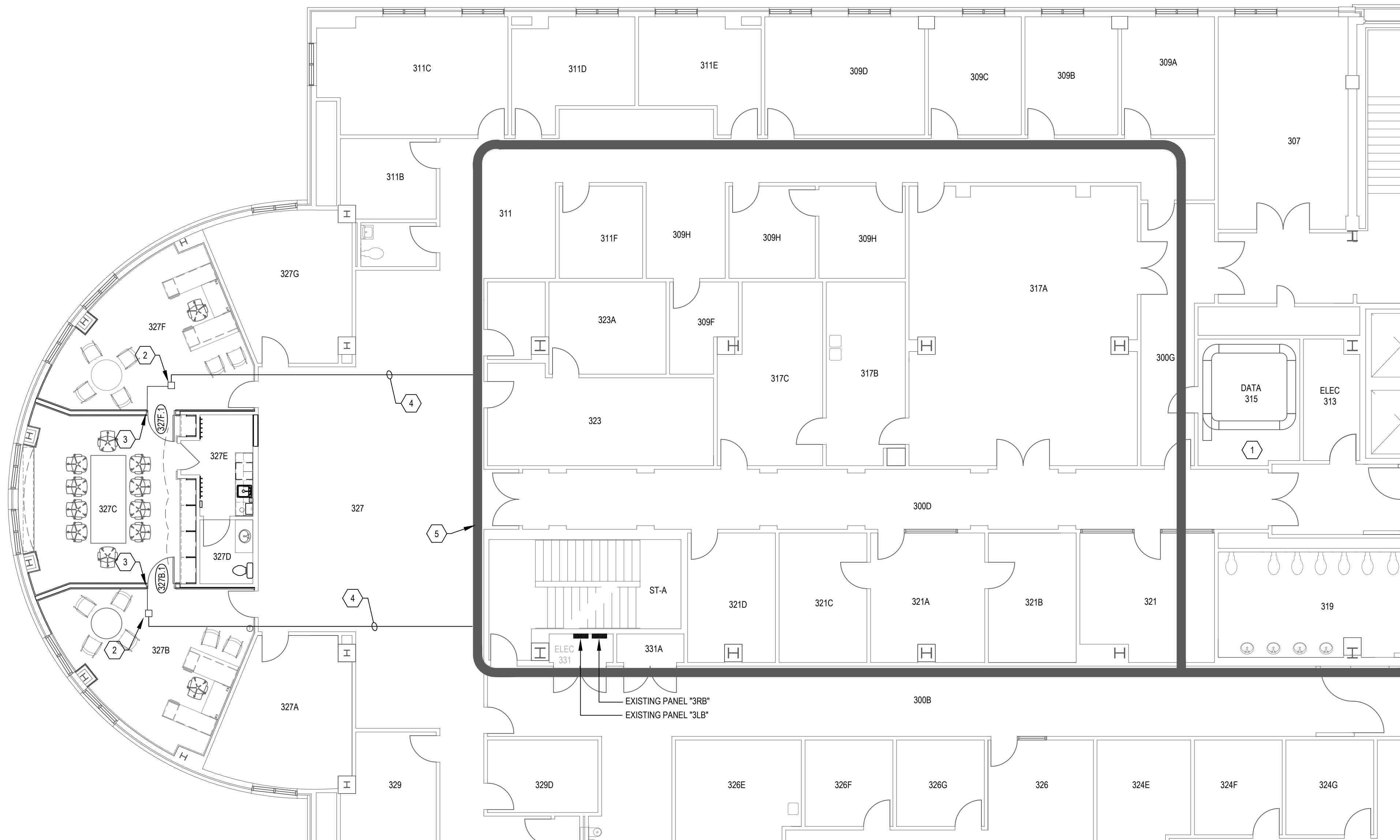
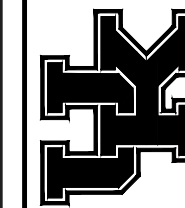
1 3RD FLOOR SUITE 327 RENOVATION - ELECTRICAL LIGHTING PLAN

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




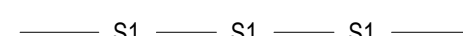


REVISIONS	
NO.	DATE

BUILDING NO: 200  
 DESIGNED BY: JWB  
 DRAWN BY: JWB  
 CHECKED BY: TA  
 APPROVED BY: PK  
 PROJECT NO: 2771.0  
 DATE: 12/14/2023  
 DRAWING NUMBER:



1 3RD FLOOR SUITE 327 RENOVATION - DOOR ACCESS CONTROL PLAN  
Scale: 1/8" = 1'-0"

**FIRE PARTITION LEGEND:**

- 
**2 HR FIRE BARRIER:** 2 HOUR RATED WALLS WITH SELF CLOSING & LATCHING 1-1/2 HOUR RATED DOORS
- 
**SMOKE BARRIER:** SMOKE TIGHT 1 HOUR RATED SELF CLOSING & NON-LATCHING DOORS
- 
**1 HR FIRE BARRIER:** 1 HOUR RATED WALLS WITH 3/4 HOUR SELF CLOSING & LATCHING DOORS
- 
**SMOKE PARTITION:** SMOKE TIGHT ONLY WITH DOORS SELF-CLOSING & LATCHING

**ELECTRICAL SHEET NOTES:** (X)

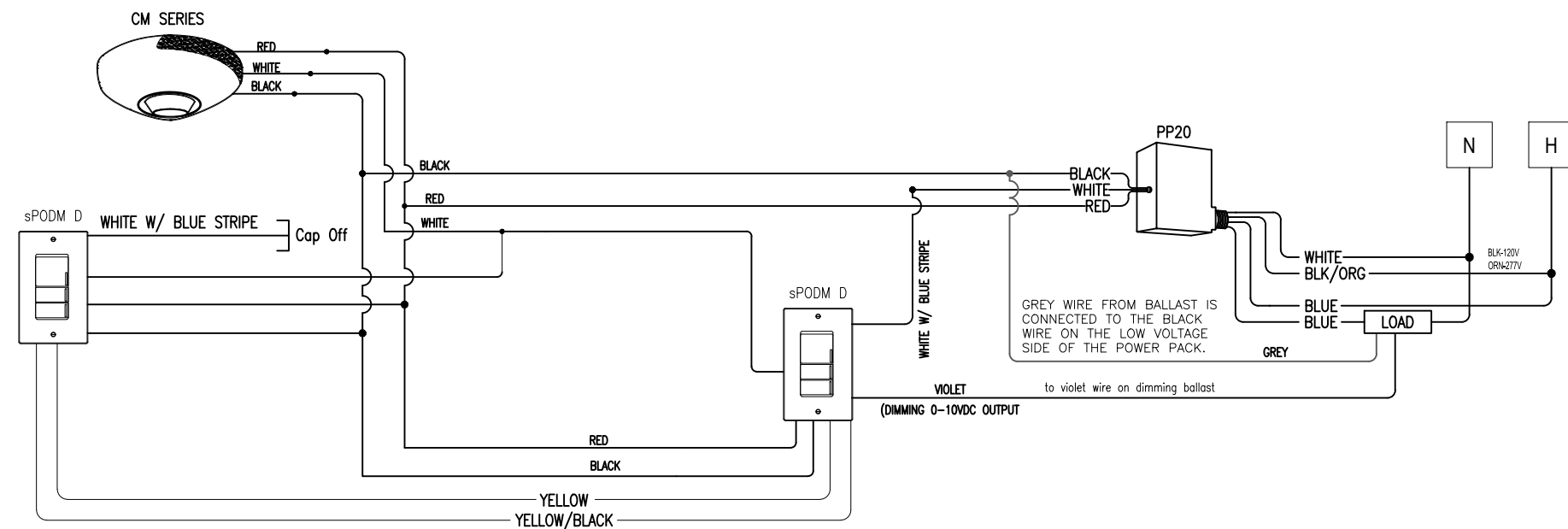
1. EXISTING ACCESS CONTROL PANEL IN THE COMMUNICATION ROOM 315. UTILIZE EXISTING INTERFACE MODULE CARD IN PANEL TO SERVE THE NEW CONFERENCE ROOM DOORWAYS.
2. IN ROOMS 327B & 327F, PROVIDE AND INSTALL A NEW 6" xx 6" x 4" JUNCTION BOX, ABOVE THE DROP CEILING, AND INSTALL 3/4" EMT CONDUIT FROM THIS J-BOX TO THE EXISTING CABLE TRAY. ROUTE CONDUIT ABOVE CEILING AND HIGH TO DECK.
3. DOORWAYS 327B.1 AND 327F.1 ARE BEING PROVIDED WITH AN ELECTRIC STRIKE AS PART OF THE DOOR HARDWARE. FOR EACH DOORWAY, THE E.C. IS TO PROVIDE AND INSTALL POWER WIRING, IN FLEXIBLE CONDUIT, FROM THE ELECTRIC STRIKE TO THE 6X6 JUNCTION BOX (SEE NOTE #2). POWER FOR ELECTRIC STRIKE TO BE SUPPLIED FROM EXISTING SECURITY PANEL POWER BOARD. CONNECT TO SECURITY PANEL WITH ACCESS CONTROL CABLE.
4. PROVIDE AND INSTALL SECURITY ACCESS CONTROL CABLE IN 3/4" EMT CONDUIT AND EXISTING ABOVE CEILING CABLE TRAY FROM EACH 6X6 PULL BOX TO COMM CLOSET 315. SEE "DOOR ACCESS CONTROL EQUIPMENT SCHEDULE" ON DRAWING E-400 FOR ACCESS CONTROL CABLE SPECIFICATION.
5. EXISTING ABOVE-CEILING CABLE TRAY.

**SEQUENCE OF OPERATIONS:**

- EXIT FROM CONFERENCE ROOM 327C, THROUGH EITHER ROOMS 327F OR 327B:**
- VIA USE OF LOCKSET LEVER HANDLE TO RETRACT LATCHBOLT AND ALLOW EXIT THROUGH OFFICE UNLESS OCCUPANT OF OFFICE HAS LOCKED THEIR RESPECTIVE DOORWAY. EXIT FROM CONFERENCE ROOM THEN SHALL BE THROUGH OTHER OFFICE DOORWAY
  - IN THE EVENT OF FIRE ALARM ACTIVATION, THE FIRE ALARM SHALL RELEASE THE ELECTRIC STRIKE AND ALLOW EXIT THROUGH PREVIOUSLY LOCKED DOORWAY.
- ENTRY INTO CONFERENCE ROOM 327C FROM ROOMS 327F OR 327B:**
- VIA USE OF LOCKSET LEVER HANDLE TO RETRACT LATCHBOLT AND ALLOW ENTRY INTO CONFERENCE ROOM

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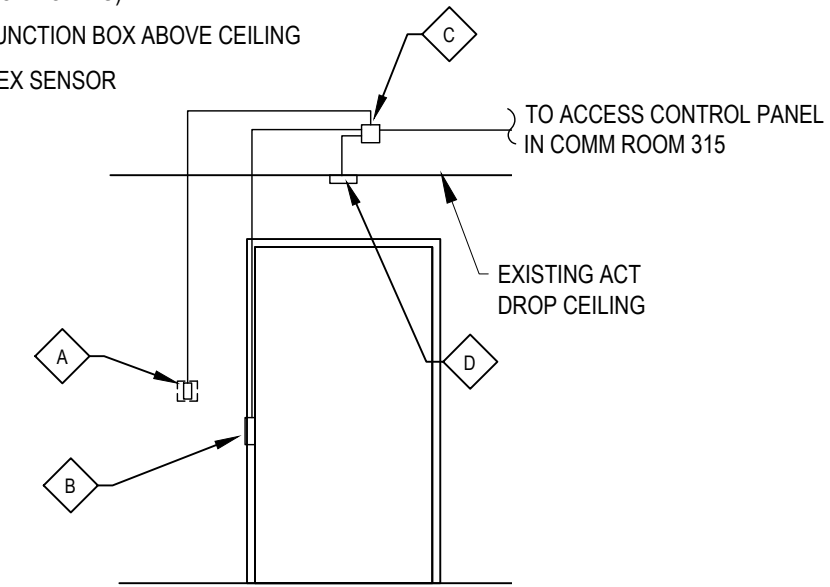


1 ROOM 327C - LIGHTING CONTROL SCHEMATIC  
NO SCALE

DOOR ACCESS CONTROL EQUIPMENT SCHEDULE					
QTY.	DESCRIPTION	MANUFACTURER	MODEL	FINISH	NOTES
2	ELECTRIC STRIKE	HES	1006CLB-LBM	US32D	1
2	ACCESS CONTROL CABLE	BELDEN	658AFJ		
<b>NOTES:</b>					
1	PROVIDE STRIKE WITH LATCH BOLT MONITORING				
2					

**INSTALLATION DIAGRAM NOTES:**

- A. CARD READER (MOUNT @ +42" AFF)
- B. ELECTRIC STRIKE (W/ LATCH BOLT MONITORING)
- C. JUNCTION BOX ABOVE CEILING
- D. REX SENSOR



2 INSTALLATION DIAGRAM  
Scale: 1/4" = 1'0"

LIGHT FIXTURE SCHEDULE									
FIXTURE TYPE	DESCRIPTION	CATALOG NUMBER	LAMP	VOLTAGE	INPUT WATTS	DRIVER	REFLECTOR / DIFFUSER	MOUNTING	REMARKS
F1	2' X 2' RECESSED VOLUMETRIC LED TROFFER	LITHONIA #2VLT2-48L-ADP-GZ10-LP940	4000L 4000K	MVOLT	31	GENERIC DRIVER- DIMS TO 10% (0-10V DIMMING)	SMOOTH REFLECTOR WITH A CURVED, RIBBED, ACRYLIC DIFFUSER	RECESSED	
F2	8' SUSPENDED LINEAR LED UP/DOWN LUMINAIRE ABOVE CONFERENCE TABLE	ECOSENSE #HS1-CS-8'-940-S/N-S/F-1D-SC-MF-44-MF-W-4	5166L DIRECT 5966L INDIRECT 4000K	MVOLT	72	ELDOLED 0-10V DIMMING DRIVER	HIGH TRANSMISSION FROSTED LENSING	SUSPENDED; AIRCRAFT CABLE	
F3	SURFACE MTD LED WALL SCNCE	HEALTHCARE LIGHTING #HPSC-NBAR-MVOLT-40K-ZT-DARK-GWAM	558L 4000K	MVOLT	12	ELDOLED 0-10V DIMMING DRIVER	SAND-ETCHED OPAL ACRYLIC FORMED FRONT LENS	SURFACE, WALL MTD	
F4	4" RETROFIT LED DOWN LIGHT	LITHONIA #LBR4WW-10LM-40K-AR-LSS-WW-MVOLT-UGZ	1000L 4000K	MVOLT	13	UNIVERSAL DIMMING TO 10% 0-10V; LINE VOLTAGE DIMMING (120V)	SELF-FLANGED REFLECTOR WITH SEMI-SPECULAR FINISH	RECESSED	
F4-GOOF	GOOF RING - 5-3/4" TO 6-3/4" FOR LBR4	LITHONIA #LBRGR56	-----	-----	-----	-----	-----	-----	

NOTE: CATALOG NUMBER IS BASIS OF DESIGN. EQUIVALENT FIXTURES ARE ACCEPTABLE BASED UPON ENGINEERS REVIEW AND APPROVAL.

LIGHT CONTROL DEVICE SCHEDULE							
DEVICE SYMBOL	DESCRIPTION	CATALOG NUMBER	DIMMING	COVERAGE TYPE	DETECTION TECHNOLOGY	MOUNTING	REMARKS
CS	CEILING MOUNTED OCCUPANCY SENSOR WITH SMALL MOTION DETECTION	NLIGHT #NCM-PDT-9-RJB-AR	OCCUPANCY CONTROLLED	SMALL MOTION 360°	DUAL TECHNOLOGY (PIR/MICROPHONICS)	CEILING	PROVIDE WITH LOW VOLTAGE AUX RELAY
LR	DIMMABLE POWER/RELAY PACK WITH EXTERNAL FAULT PROTECTION	NLIGHT #NPP16-D-EFP-SA	YES	N/A	N/A	ABOVE CEILING	DEFAULT MODE: MANUAL ON (SWITCH CH. 1)
LV \$	LOW VOLTAGE, SINGLE CHANNEL SWITCHPOD WITH ON/OFF CONTROL	NLIGHT #NPODM-WH	NO	N/A	N/A	RECESSED WALL	
LVD \$	LOW VOLTAGE, FOUR CHANNEL SWITCHPOD WITH ON/OFF + RAISE/LOWER CONTROL	NLIGHT #NPODM-4P-DX-CCT-WH	YES	N/A	N/A	RECESSED WALL	
OSD \$	LINE VOLTAGE (120V) DIMMER SWITCH WITH INTEGRAL OCCUPANCY SENSOR	SENSORSWITCH #WSX-PDT-D-VA-WH	YES	N/A	DUAL TECHNOLOGY (PIR/MICROPHONICS)	RECESSED WALL	

NOTE: CATALOG NUMBER IS BASIS OF DESIGN. EQUIVALENT FIXTURES ARE ACCEPTABLE BASED UPON ENGINEERS REVIEW AND APPROVAL.



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# 01000S01- Special Conditions - General Contractor

UNIVERSITY OF KENTUCKY  
SPECIAL CONDITIONS OF THE CONTRACT  
FOR CONSTRUCTION BY A GENERAL CONTRACTOR

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## **01000S01- Special Conditions - General Contractor**

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# 010000S01- Special Conditions - General Contractor

## ARTICLE 01 GENERAL INFORMATION

1.1 These Special Conditions are intended to modify, supplement, or delete from, applicable Articles of the General Conditions.

1.2 Where any Article of the General Conditions is supplemented by these Special Conditions, the Article shall remain in effect and the supplement shall be added thereto.

1.3 Where Special Conditions conflict with General Conditions, provisions of the Special Conditions take precedence.

## ARTICLE 02 FIELD CONDITIONS

2.1 General Contractor will secure all data at the site of the building such as grades of lot, convenience of receiving and sorting material, location of public services, and other information which will have a bearing proposals or on the execution of the Work and shall address these issues in the preparation of their bid. No allowance shall be made for failure of the General Contractor to obtain such site information prior to submitting their proposal, and no adjustment to the General Contractor's Contract amount or stipulated time for completion shall be allowed when due to failure by the General Contractor to do so.

## ARTICLE 03 (NOT USED)

## ARTICLE 04 CONSULTANT

4.1 Wherever in these Contract Documents reference is made to the Consultant, it shall be understood to mean UK FEAM or their duly authorized representatives. (See Article 2 of the General Conditions.)

## ARTICLE 05 GEOTECHNICAL REPORT

5.1 No subsurface or geotechnical survey information is available at this time.

## ARTICLE 06 TIME FOR COMPLETION

6.1 The time for Substantial Completion as further defined in Article 1 of the General Conditions shall be 30 consecutive calendar days from the date of commencement as specified in the Work Order letter, and Final Completion shall be thirty (30) days thereafter.

## ARTICLE 07 LIQUIDATED DAMAGES

7.1 Should the General Contractor fail to achieve Substantial Completion of the Work under this Contract on or before the date stipulated for Substantial Completion (or such later date as may result from extensions in the Contract Time granted by the Owner), he agrees that the Owner is entitled to, and shall pay the Owner as liquidated damages the sum of \$ Two Hundred Dollars (\$200.00) for each consecutive calendar day that Substantial Completion has not been met. See Article 3 of the Agreement.

7.2 Should the General Contractor fail to achieve Final Completion of the Work under this Contract on or before the date stipulated for Final Completion (or such later date as may result from extensions in the Contract Time granted by the Owner), he agrees that the Owner is entitled to, and shall pay the Owner as liquidated damages the sum of \$ One Hundred Dollars (\$100.00) for each consecutive calendar day until Final Completion is reached. See Article 3 of the Agreement.

## ARTICLE 08 SUBMITTALS AND SHOP DRAWINGS

8.1 SUBMISSIONS - GENERAL

## 010000S01- Special Conditions - General Contractor

8.1.1 The General Contractor shall submit each set of Shop Drawings, product data, samples, and test and/or certification reports as a separate item in UK E-Communication®. Projects not utilizing UK E-Communication® must submit all items electronically to the Consultant and the UK Project Manager and Administrative Coordinator.

8.1.2 All sample selections for color shall be submitted for approval at the same time. Color selections shall not be submitted individually.

8.1.3 Any deviation from the Contract Documents shall be noted on the transmittal form comment section.

8.1.4 All submittals are to be reviewed by the General Contractor for compliance with the Contract Documents before submission for approval. All submittals are to be initiated by the General Contractor. Submittals made directly to the Consultant by sub-contractors, manufacturers or suppliers will not be accepted or reviewed.

8.1.5 Re-submittals shall conspicuously note all changes from earlier submissions. Special notation by the General Contractor shall be made to any changes other than those in response to the Consultant's review.

8.1.6 Manufacturers shall, when requested by the Consultant, submit test reports prepared by reputable firms or laboratories certifying as to performance, operation, construction, wearability, etc., to support claims made by the manufacturer of the equipment or materials proposed for inclusion in the Work. General Contractor shall also submit a list of three (3) installations where said equipment or materials have been in service for a minimum of five (5) years.

### 8.2 SUBMISSIONS - REVIEW

8.2.1 Review of submittals is only for compliance with the design concept and the contract documents. THE CONSULTANT SHALL NOT BE RESPONSIBLE FOR CHECKING DEVIATIONS FROM CONTRACT DOCUMENT REQUIREMENTS OR CHANGES FROM EARLIER SUBMISSIONS NOT SPECIFICALLY NOTED.

8.2.2 The following shall be verified prior to making submittals:

Field Measurements, Field Construction Criteria, Catalog numbers and similar data, Quantities and Capacities, and Compliance with requirements, including verification of all dimensions,

8.2.3 Review Stamp designations shall be as follows:

8.2.3.1 "NET = No Exceptions Taken": Proceed with the Work, no corrections needed.

8.2.3.2 "FC= Furnish as Corrected": Proceed with the Work, noting the corrections/conditions of the approval.

8.2.3.3 "RR = Revise and Resubmit": Do not proceed with the Work, as the submittal does not comply with the Contract Documents. Revisions to the submittal are required for approval. On projects utilizing UK E-Communication, "Send Back a Step" is used in lieu of "Revise and Resubmit."

8.2.3.4 "R = Rejected": Do not proceed with the Work, the submittal is rejected.

### 8.3 SUBMISSIONS - SPECIAL PROVISIONS

## 010000S01- Special Conditions - General Contractor

8.3.1 In making a submittal, the General Contractor shall be deemed to be making the following representations:

8.3.1.1 The General Contractor understands and agrees that he shall bear full responsibility for the products furnished. The General Contractor expressly warrants that products described in the attached submittal will be usable and that they conform to the Contract requirements unless specifically noted otherwise.

8.3.1.2 The General Contractor understands and agrees that, without assuming design responsibility, he expressly warrants that products described in the attached submittal are capable of being used in accordance with the intent of the design documents and that they conform to the Contract requirements unless specifically noted otherwise.

8.3.1.3 The General Contractor acknowledges that the Owner will rely on the skill, judgment, and integrity of the General Contractor as to conformance requirements and subsequent usability.

### 8.4 SHOP DRAWING AND PROCUREMENT SUBMITTAL LOG

8.4.1 The General Contractor, within ten (10) days after the Pre-Construction meeting, shall begin uploading submittals using UK E-Communication<sup>®</sup>, to generate a log fixing the dates for submission of Shop Drawings, special order material items, certifications, guarantees, and any other items required to be submitted to the Consultant for review, approval or acceptance. Projects not utilizing UK E-Communication<sup>®</sup> will submit a Shop Drawing Log provided by the Owner during the Pre-Construction Meeting.

8.4.2 The log shall track all submittals to date. The updated log shall then be reviewed and discussed at each progress meeting to determine items that may impact the construction schedule.

### 8.5 Shop Drawings

8.5.1 The General Contractor shall review, approve, and submit Shop Drawings to the Consultant, in accordance with the Consultant's Shop Drawing & Procurement Submittal Log or UK E-Communication<sup>®</sup>, as herein detailed. By approving and submitting Shop Drawings, the General Contractor represents that he has determined and verified all materials, field measurements, and field construction criteria related thereto, or will do so, and that he has checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.

8.5.2 The General Contractor shall submit Shop Drawings required for the Work and the Consultant will review and take appropriate action. The review and approval shall be only for conformance with the design concept of the Project and for compliance with the information given in the Contract Documents. The approval of a separate item will not indicate approval of the assembly in which the item functions.

8.5.3 The General Contractor shall make any corrections required by the Consultant for compliance to the Contract and shall return the required number of corrected copies of Shop Drawings and resubmit new samples until approved. The General Contractor shall direct specific attention, in writing, or on resubmitted Shop Drawings, to revisions other than the corrections called for by the Consultant on previous submissions. The General Contractor's stamp of approval on any shop drawing or sample shall constitute a representation to Owner and Design Consultant that the General Contractor has either determined and verified all quantities, dimensions, field construction criteria, materials, catalog numbers, and similar date, or he assumes full responsibility for doing so, and that he has reviewed or coordinated each shop drawing or sample with the requirements of the Work and the Contract Documents.

8.5.4 Where a shop drawing or sample submission is required by the specifications, no related Work shall be commenced until the submission has been approved by the Design Consultant. A copy of each approved shop drawing and each approved sample shall be kept in good order by the General Contractor at the site and shall be available to the Consultant.



## 010000S01- Special Conditions - General Contractor

8.5.5 The Consultant's approval of Shop Drawings or samples shall not relieve the General Contractor from his responsibility for any deviations from the requirements of the Contract Documents unless the General Contractor has in writing called the Consultant's attention to such deviation at the time of submission and the Consultant has given written approval to the specific deviation. Any approval by the Consultant shall not relieve the General Contractor from responsibility for errors or omissions in the Shop Drawings.

8.5.6 All submittals are to be submitted electronically by the contractor. Shop Drawings submitted through UK E-Communication® shall be scanned and submitted in color. Mark-ups must be made using visible color when printed. Workflow in UK E-Communication® will be established during the workflow meeting. Each individual Shop Drawing shall have its respective specification number and description highlighted.

8.5.7 Where Shop Drawings include fire alarm, communication systems schematics, sprinkler systems, etc., a sepia of each drawing shall be submitted to the Consultant as part of the "Record" set of drawings.

### 8.6 SUBMISSIONS - SAMPLES

8.6.1 Office samples shall be of sufficient size and quantity to clearly illustrate functional characteristics of the product with integrally related parts and attachment devices, and full range of color, texture, and pattern.

8.6.2 Products shall not be used until the sample has been submitted to and approved by the Consultant.

8.6.3 A minimum of two (2) samples are required to be submitted to the Consultant for review and approval and will be distributed as follows:

- a) One (1) to be retained by the University;
- b) One (1) to be returned to the Design Consultant;
- c) An additional sample or samples may be submitted, at the General Contractor's option, for distribution to a third party.

8.6.4 Field samples (block, brick, etc.) of materials to be constructed at the site shall be submitted for review as required by the individual section of the Contract Documents.

### 8.7 SUBMISSIONS - OPERATION AND MAINTENANCE MANUALS

8.7.1 The University requires a minimum of one (1) bound copies and one (1) digital copy of the final installation, training, operation, maintenance, and repair manuals to be turned over to the Owner's Project Manager and approved for content by the Consultant by or before the time construction is 75% complete. Projects utilizing e-Communication will create digital copy from the Document Library (Closeouts) in e-Communication. The Closeout Log must contain individual line items for each physical copy submitted with corresponding PDF attachments. Operation and maintenance manuals and materials, where specified, for mechanical and electrical equipment and for operating items other than mechanical and electrical equipment must be submitted in PDF format with a separate PDF file for each item. In the event the General Contractor fails to provide these required electronic submittals prior to reaching seventy-five (75%) completion, it is agreed that the Owner at its sole discretion may deduct from the current and subsequent Applications for Payment an amount deemed by the Owner to be sufficient to encourage prompt compliance with this contractual requirement, until such time as acceptable O&M manuals are received.

8.7.2 Manuals provided must be of sufficient detail to enable the Owner or others to install, calibrate, train, operate, maintain, service and repair every system, subsystem, and/or piece of equipment installed on or as part of this Contract. Closeout Documents submitted through UK E-Communication® shall be

## 010000S01- Special Conditions - General Contractor

scanned and submitted in color. Mark-ups must be made using visible color when printed. Each manual must contain:

8.7.2.1 Project Title, Project number, Location, dates of submittals, names, addresses and phone number for the Consultant, General Contractor, and General Contractor's Sub-contractors;

8.7.2.2 An Equipment Index that includes vendor's names, addresses, and telephone numbers for all equipment purchased on the Project;

8.7.2.3 Emergency instructions with phone numbers and names of contact persons on warranty items shall be uploaded to UK E-Communication@;

8.7.2.4 Copies of each system's air balancing record and each system's hydronic balancing record (1) physical copy and (1) digital copy in eCommunication ;

8.7.2.5 Copy of valve tag list;

8.7.2.6 Copy of As-Built temperature control system drawings and components and sequence of operation;

8.7.2.7 Original copies of the following provided by the manufacturer:

Installation manuals	Instruction Manuals
Training manuals	Calibration manuals
Service Manual	Operation manuals
Parts list	Repair manuals
Reviewed Shop Drawings	Wire list
	Keying Bit List

8.7.2.8 Any Computer, Micro controller, and/or Microprocessor equipped equipment installed shall be provided with source code copies of all software and firmware (prom, EPROM, ROM, other) supplied on this Contract; and

8.7.2.9 Copies of all inspection and guarantee certificates, manufacturers' warranties with the University of Kentucky listed as the Owner for all equipment provided and/or installed.

8.7.2.10 All manuals shall be as follows: Bound in hard cover three(3) ring (D-type) binder, 1", 1.5" or 2" maximum, indexed and in CSI format, tabbed (4,5,8 or 16th cut), no more than 80% binder fill, white vinyl, presentation type with clear vinyl view cover on front, back and spine and with pockets on front and back. Maximum drawing size in binder shall be folded 11"x17" and shall be hole punched and reinforcements added. Do not put drawings in pockets. Top of all drawings shall be at top or spine side of the manual. Complete drawings must be viewed without opening rings. Provide binders as manufactured by Universal Office Products, Des Plaines, IL. 1"(S# B2-20742), 1.5"(B2-20744), or 2"(B2-20746) or equal.

8.7.2.11 If the binder includes manuals from any single vendor covering several different model numbers, the model used on the Project must be highlighted.

8.7.2.12 Included in the front of the "Operation and Maintenance Manual" shall be a copy of the Interior and Exterior Finish plan and Schedule listing all finish materials, the manufacturer, the finish color, and the manufacturer's paint number.

8.7.2.13 Photograph album containing photos and negatives or digital images (.pdf format) showing buried utilities and concealed items shall be included.

## 01000S01- Special Conditions - General Contractor

### 8.8 SUBMISSIONS – AS - BUILT SET OF DRAWINGS

8.8.1 The General Contractor shall submit one (1) electronic copy of As - Built set of drawings in .pdf format indicating all deviations of construction as originally specified in the Contract Documents. These As-Built Drawings will compile information from the General Contractor as well as all Sub-contractors. The General Contractor shall provide a qualified representative to update the As - Built set of drawings as construction progresses. As-Built submitted through UK E-Communication® shall be scanned and submitted in color. Mark-ups must be made using visible color when printed

8.8.2 The General Contractor shall provide and utilize a camera to photograph the installation of buried utilities and concealed items. The General Contractor shall provide standard 3 1/2" x 5" photographs with negatives, or digital images (.jpeg format), which shall be submitted as part of the Operation and Maintenance Manuals submission. These photos should be mounted in a bound album with labeling as to subject of photo, date, and Project. Such album is to be kept at job site with the As - Built set of drawings until submittal of same.

8.8.3 Approval of the Final Payment request will be contingent upon compliance with these provisions. The General Contractor's As – Built set of drawings shall be delivered to the Consultant at their completion so that the Consultant may make any changes on the original contract drawings.

### 8.9 SUBMISSIONS - SAP EQUIPMENT LIST

8.9.1 Complete equipment list for use with SAP software in electronic spreadsheet format. Data is to be provided in Unifomat format with the information being provided for individual locations as noted in Attachment A – Unifomat Component List. Information is to be provided as follows (PPDMC or CPPD will provide blank Excel spreadsheets in electronic form for use in compiling the information, if desired)

8.9.2 All materials that require preventative maintenance (PM) are listed as in Attachment A. The equipment list is to be provided in Excel spreadsheet format and is to include the information listed in Attachment B

8.9.3 Required maintenance procedure listing each work task in Excel spreadsheet format as shown in Attachment C.

8.9.4 Required frequency of maintenance for the work tasks outlined in 8.9.3 above and included in the Attachment C spreadsheet

8.9.5 Listing of maintenance parts and items: i.e. filters, lubricants, etc. for each work task listed in 8.9.3 above.

### 8.10 SUBMISSIONS – MAINTENANCE MATERIALS

8.10.1 If specified, Maintenance/Replacement Materials, Spare Parts, and special maintenance tools for proper maintenance shall be provided by the General Contractor.

## ARTICLE 09 PLANS, DRAWINGS, AND SPECIFICATIONS

9.1 The successful General Contractor can purchase any number of sets of plans and specifications from Lynn Imaging, Lexington, Kentucky ( <http://www.ukplanroom.com/> or phone Lynn Imaging @ 1.800.888.0693 or 859.255.1021). The General Contractor will be required to pay Lynn Imaging for the cost of duplication for all sets required.

9.2 The University will provide (2) sets of the ‘Official Contract Documents’ book to the successful General Contractor. One (1) set is to be for his office and the other set is for the jobsite.

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9.3 All drawings, specifications and copies thereof, prepared by the Consultant, are the property of the University of Kentucky. They are not to be used on other Work.

### ARTICLE 10 PROGRESS MEETINGS

10.1 In addition to specific coordination and pre-installation meetings for each element of Work, and other regular Project meetings held for other purposes, progress meetings will be held as outlined at the Preconstruction Meeting. Each entity then involved in planning, coordination or performance of Work shall be properly represented at each progress meeting. The following areas will be covered at each progress meeting: current status of work in place, General Contractor's review of upcoming work (1 month look ahead), schedule status, upcoming outages, new outage requests, shop drawings due from contractors, shop drawings being reviewed, outstanding RFI's, outstanding proposed change orders, change orders, new business, As-Built updated, close-out documents status, defective work in place issues, review "pencil copy" of payment application, safety issues and new business or other issues not covered above. With regard to schedule status, discuss whether each element of current work is ahead of schedule, on time, or behind schedule in relation with updated progress schedule; determine how behind-schedule Work will be expedited, and secure commitments from entities involved in doing so; discuss whether schedule revisions are required to ensure that current Work and subsequent Work will be completed within Contract Time; and review everything of significance which could affect the progress of the Work.

10.2 General Contractor shall prepare and submit at each progress meeting an updated schedule indicating Work completed to date and any needed revisions.

10.3 With the express purpose of expediting construction and providing the opportunity for cooperation of affected parties, progress meetings will be held and attended by representatives of:

- (1) The Owner's Project Manager
- (2) The Consultant.
- (3) General Contractor.
- (4) Sub-contractors.
- (5) Others requested to attend (as deemed necessary by CPMD).
- (6) Physical Plant Division Representative

10.4 A location near the site will be designated where such progress meetings will be held. Participants will be notified of the dates and times of the meetings by the Consultant.

### ARTICLE 11 CONSTRUCTION SCHEDULE – BAR CHART

11.1 The General Contractor shall prepare construction schedules as a bar chart, with separate divisions for each major portion of the work, and in sufficient detail to identify the plan and sequence of construction to be followed in meeting the requirements of the Contract. Schedules shall include divisions for Work to be accomplished remote from the central construction site, e.g. utilities from outside the construction site to the site for chilled water, steam, electrical, communications, and/or fire service. Such Work shall be scheduled so that disruption resulting from construction will be minimized. Start dates and completion dates for such Work must be maintained and completed in the shortest reasonable time. The sequence of listings shall follow the Table of Contents of the Specifications. Maximum sheet size shall be 30" x 42". The schedule shall show the complete sequence of construction, by activity, with dates for beginning and completion of each element of the Work.

11.1.1 For projects requiring a bar chart schedule instead of a Critical Path Method (CPM) schedule, the following Articles of the General Conditions are amended as follows:

11.1.2 Article 21.4.2 of the General Conditions to the Contract is amended to read as follows:

21.4.2 Requests for an extension of time due to unusually bad weather shall be considered for approval only if it is shown that a) the unusual weather event delayed work on a specific weather sensitive activity or activities that had been planned to be underway on the date(s) on which the

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weather event occurred, as shown in the most recent update to the Project schedule that had been submitted to the Owner prior to the date of the event and b) that the delay to that activity or activities is shown to be the proximate cause of a corresponding delay to the contractually required completion dates for the Project that were shown in the most recent update to the Project schedule. The actual dates on which the delay(s) occurred must be stated and the specific activities that were directly impacted must be identified. In the event of concurrent delays, only those activities actually impacting the Project contractually required completion dates will be considered in evaluating the merit of a delay request and in adjusting the schedule. Time extensions will not be considered for concurrent delays not caused by the Owner. Requests for an extension of time which are not supported by this information shall not be considered for approval by the Owner.

11.1.3 Article 21.4.3 of the General Conditions to the Contract is amended to read as follows:

21.4.3 In anticipation of the possibility of delay due to unusual bad weather, the General Contractor shall identify those activities in the schedules, and those activities subsequently added to updated schedules, that might reasonably be expected to be delayed by bad weather.

11.1.4 Article 21.7 of the General Conditions to the Contract is amended to read as follows:

21.7 The Contract Time will only be adjusted for causes specified above. Extensions of time will only be approved if the General Contractor can provide justification supported by the Project schedule or other acceptable data that such changes extend the contractually required date of Substantial Completion, and that the General Contractor has expended all reasonable effort to minimize the impact of such changes on the construction schedule. No additional extension of time will be granted subsequently for claims having the basis in previously approved extensions of time.

11.1.5 Article 21.8 of the General Conditions to the Contract is amended to read as follows:

21.8 In support of requests for an extension of time not caused by unusual inclement weather, and concurrently with the submittal of any such request, the General Contractor shall submit to the Consultant and the Owner a written impact analysis showing the influence of each such event on contractually required completion dates as shown in the updated Project schedule most recently submitted to the Owner prior to the event. The analysis shall include the sequence of new or revised activities and/or durations that are proposed to be added to the existing schedule including related logic. This impact analysis shall include the new activities and/or activity revisions proposed to be added to the existing schedule and shall demonstrate the claimed impact on the contractually required completion dates. The General Contractor will not be granted an extension of time and/or relief from liquidated damages when the delay to completion of the work is attributable to, within the control of, or due to the fault, negligence, acts, or omissions of the General Contractor and/or the General Contractor's contractors, subcontractors, suppliers, or their respective employees and agents. Time extensions will not be considered for concurrent delays not caused by the Owner. In the event of concurrent delays, only that event actually impacting contractually required completion dates will be considered in adjusting the schedule and evaluating the merit of a delay claim. Requests for an extension of time which are not supported by this information shall not be considered for approval.

11.1.6 Article 32.1 of the General Conditions to the Contract is amended to read as follows:

32.1 The General Contractor shall prepare and submit to the Owner and the Consultant a bar-chart type construction schedule for the Work. The schedules shall include all activities necessary for performance of the work showing the duration and the planned start and finish dates for each activity. The schedules shall include, but not be limited to, submittal processing, fabrication and delivery of materials, construction, testing, clean-up, work and/or materials to be provided by the Owner, dates and durations for major utility outages requiring coordination with the Owner and the Owner's operations, and significant milestones related to the completion of the Project.

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11.2 The schedule shall be submitted to the Consultant and to the Owner for review within thirty (30) calendar days after the date established for the start of Work on the Project as stated in the official Work Order and Notice to Proceed. Review will be only for general conformance to the requirements of the contract. Review comments and/or acceptance of the Contractor's schedule shall not relieve the Contractor of any obligation for compliance with all requirements of the Contract Documents. Such review and comments shall not constitute interference with the Contractor's means and methods of construction, which shall remain solely the responsibility of the Contractor.

11.3 Schedules shall be revised no less frequently than monthly to coincide with regular monthly Project progress meetings and submission of Applications for Payment and shall be updated to indicate progress of each activity to the date of submittal, the projected completion of each activity, any activities modified since previous submittal, any major changes in scope, and all other identifiable changes, and further shall be accompanied by a narrative report to define problem areas, anticipated delays, impact on the progress of the Work, and to report corrective action taken or proposed.

11.4 Initial schedules shall be submitted within thirty (30) calendar days after the date established in Notice to Proceed. After review, required revisions to the schedule shall be completed and incorporated in the schedule within ten (10) calendar days. Up-dated Progress Schedules shall be submitted with each Application for Payment. Submissions must include one (1) opaque reproduction and one (1) electronic copy (disk or CD) along with a transmittal letter.

11.5 Copies of reviewed Schedules are to be provided to the job site file and, as appropriate, to sub-contractors, suppliers, and other concerned entities, including separate contractors. Recipients are to be instructed to promptly report, in writing, problems anticipated by projections shown in schedules.

11.6 The processing of all progress payments is contingent upon the submission of updated schedules.

11.7 The processing of all Change Orders requesting a time extension to the contract are contingent upon the submission and approval of a revised schedule demonstrating that the change order does impact the date of completion for the entire project. Time extension requests associated with Change Orders that do not impact the date of completion for the entire project will be rejected.

### **ARTICLE 12 WALK-THROUGH**

12.1 After the "Work Order" is issued but before Work by the General Contractor is started, a walk-through of the area is required to document the condition of the space, surfaces, or equipment. It is the responsibility of the General Contractor to schedule the walk-through with the Owner's Project Manager, the Consultant, and other interested parties.

12.2 During the walk-through, General Contractor shall identify all damaged surfaces or other defective items that exist prior to construction.

12.3 The walk-through shall be attended by Owner's Project Manager, a Representative of the user of the facility, the General Contractor and the Consultant

12.4 Written documentation of the walk-through is to be provided by the Consultant with copies distributed to all parties. Polaroid type color photographs are to be provided and labeled by General Contractor and one (1) copy of such photographs are to be given to Consultant. (Digital photos in a .jpg format are acceptable if submitted on digital media storage) All parties attending the walk-through agree on the list of damages.

### **ARTICLE 13 OWNER'S CONSTRUCTION REPRESENTATIVE (Not Used)**

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## **ARTICLE 14 FIELD OFFICE**

14.1 General Contractor shall make his own provision for field office for his own personnel and for incidental use by their Sub-contractors. Quantity and location are subject to approval of the Consultant and the Owner's Project Manager.

14.2 A field office shall not be required for this Project.

## **ARTICLE 15 TELEPHONE SERVICE**

15.1 General Contractor shall arrange through UKIT Communications and Network Systems for installation of on-site phone, internet and other communications services. Telephone service during the length of construction shall be paid for by the General Contractor. (Cell phone/Nextel service in lieu of UKIT Communications and Network Systems phone service may be utilized at General Contractor's option.)

## **ARTICLE 16 CONSTRUCTION FENCE**

16.1 Construction fencing will be designed and erected around job sites where there is a possibility of injury to employees, students or the public. Special precautions must be taken to protect the visually impaired, disabled, children and others using the University facilities. During active excavation/trenching operations, fencing shall be erected to prevent unauthorized entry into the site. All fencing shall comply with the current requirements of the International Building Code except where the following requirements are more stringent.

16.1.1 All job site perimeter fencing within 5 feet of a walkway, street, plot line, or public right-of-way shall be 8 feet in height. Perimeter fencing that blocks sidewalks must include signs directing pedestrians to a safe walkway or crosswalk. Signage may be attached to the fence, but may also be required to inform pedestrians of sidewalk closures and detours prior to arriving at the closed area. General Contractor shall provide electrical pedestrian and general lighting along the top rail of the perimeter of the construction site fence to provide a minimum illumination level of 1.5 foot candles. Pedestrian and perimeter fence lighting shall be installed in conduit, raceway, and/or pathway system properly supported to the perimeter fence. Open or flexible cabling will not be acceptable.

16.1.2 All job site perimeter fencing more than 5 feet from a walkway, street, plot line, or public right-of-way shall be a minimum of 6 feet in height unless International Building Code requirements are more restrictive due to the height of the structure and setback.

16.1.3 All fencing shall be of a woven material such as chain link or a solid type fence. Fencing shall include gates required for construction operations. Gates shall be lockable with both the General Contractor's lock, and a lock provided by the Owner. Lock by Owner shall be keyed for the University Best GA key core. All locks to be "daisy-chained" to provide access to the Owner.

16.1.4 It shall be the General Contractor's responsibility to determine the proper quality of materials and methods of installation of the fencing, with the understanding that it must be maintained in good condition, good appearance, rigid, plumb, and safe throughout the construction period. The fence does not have to be new material. The fence is to be erected on fence posts securely anchored in the ground. Provide a top bar or, with prior approval of the owner, a wire shall be run through the top of the fence and attached to the end posts. A tension control device shall be installed as necessary. Use of sandbags, concrete weights, stakes, etc. to hold fence posts in place are not allowed. Penetrations in pavement or landscape walking surfaces may not be made without the approval of the owner. Any damage caused by the fence installation shall be repaired in a manner satisfactory to the owner. When fencing is to remain in place for six (6) months or more a green fabric mesh must be provided for the full height and length of the fence. Fabric should be omitted for one (1) section of fencing where blind corners occur or at pedestrian/vehicle intersections.

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16.1.5 The General Contractor shall be responsible for removing and replacing any fence sections and/or posts necessary for access to the site on a daily basis. The General Contractor shall police such conditions to assure the fence and posts are reset in a timely manner and are specifically in place at the close of the working day.

16.1.6 If the General Contractor fails to comply with the requirements of this Article 16, the Owner may proceed to have the work done and the General Contractor shall be charged for the cost of the Work done by unilateral deductive change order.

16.1.7 Plastic construction fencing is not acceptable as a perimeter protection fence.

### **ARTICLE 17 PROJECT SIGN (Not Used)**

### **ARTICLE 18 PARKING**

18.1 The University of Kentucky will make available for purchase by the General Contractor up to four (4) parking permits. The category of parking permit and location of parking is determined by the Director, Parking and Transportation Services, or a designee. Parking permits may be purchased by the General Contractor to be used by the Contractor and/or the Contractor's subcontractors and employees during the construction period. The cost of each permit is based on the pro-rata annual cost and may be purchased from Parking Services, 721 Press Avenue, after the Contract is executed. Necessary documents required to purchase the passes will be available at the Pre-Construction Conference.

18.2 The Director, Parking and Transportation Services, or a designee will determine if parking is available for employees of the Contractor and subcontractors in the K lots at Commonwealth Stadium or elsewhere on Campus. The Contractor will be given thirty (30) days notice should conditions change that will affect parking at the designated parking area and it is necessary to relocate parking or terminate parking privileges. If parking is available, permits may be purchased from Parking Services, 721 Press Avenue at the appropriate monthly cost.

### **ARTICLE 19 SANITARY FACILITIES**

19.1 Restroom facilities in one of the surrounding buildings will be designated at the Pre-Construction Meeting for use by the General Contractor's workforce during construction. The designated restroom(s) and areas accessible to General Contractor must be kept clean and neat during construction. Failure to keep them clean will result in the General Contractor being required to provide portable toilets at his cost at the site. Drinking water shall be provided from an approved safe source so piped or transported as to be kept clean and fresh and served from single service containers or satisfactory types of sanitary drinking stands or fountains. All such facilities and services shall be furnished in strict accordance with existing governing health regulations.

### **ARTICLE 20 RULES OF MEASUREMENT**

20.1 Rules of Measurement shall be established by the Consultant in the field. Actual measurement shall be taken in the field. These amounts shall become binding upon the General Contractor and be adjusted as before mentioned.

20.2 The General Contractor shall pay for and coordinate through the Consultant and/or the Owner's Project Manager all associated Work by utility companies including relocation of utility poles, installation of new street lights, relocation of overhead or underground lines, and any other Work called for on the Plans and in the Specifications.

### **ARTICLE 21 ALLOWANCES**



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21.1 As stated in the General Conditions to the Contract, the General Contractor shall have included in the Contract Amount all costs necessary to complete the Work. Costs based on "allowances" shall be permitted only for objectively quantifiable items and only with the prior written approval of the Owner.

21.2 The University of Kentucky has entered into a price contract agreement with SimplexGrinnell for procurement of fire alarm and security systems. SimplexGrinnell will provide an allowance for this project which may include Fire Alarm Equipment and Security Equipment, including all required cable/wire, labor to install cable and wire and terminations of SimplexGrinnell supplied devices and panels. SimplexGrinnell will be a sub-contractor under the General Contractor.

The General Contractor shall include an allowance of \$ \_\_\_\_\_ N/A \_\_\_\_\_ for the work by SimplexGrinnell in the base bid.

The electrical contractor is to provide and install conduits and back boxes/junction boxes. All conduits will include a pull string. SimplexGrinnell will furnish and install all fire alarm and security equipment.

### ARTICLE 22 SEQUENCE OF CONSTRUCTION

22.1 N/A

22.2 All materials and equipment are to be brought into the project site from the approved staging location and are not to be brought through the existing buildings or loading docks. Any and all exceptions shall be approved by, and closely coordinated with, the Owner's Project Manager in advance of scheduling or performing the work.

22.2.1 The General Contractor shall coordinate any road and sidewalk closings, utility disruptions, etc. which will affect the use of the existing building(s) with the Owner's Project Manager prior to commencing that Work.

22.3 The adjacent buildings and public areas will remain in use and the Owner shall have access to the existing building(s) throughout the duration of the Project. The General Contractor shall coordinate construction activity to assure the safety of those who must cross the Project site and shall provide and maintain the necessary barriers and accommodations for a completely safe route of accessibility. The General Contractor is to insure that all exits provide for free and unobstructed egress. If exits must be blocked, prior arrangements must be made with the Owner's Project Manager.

22.4 The General Contractor shall cooperate with the Owner to minimize inconvenience to, or interference with normal use of existing buildings and grounds by staff, students, other Contractors, or the public. General Contractor shall conduct operations to prevent damage to adjacent building structures and other facilities and in such a manner to protect the safety of building's occupants.

22.5 Special effort shall be made by the General Contractor to prevent any employee from entering existing buildings for reasons except construction business. In particular, use of toilets, drinking fountains, vending machines, etc. is strictly prohibited.

### ARTICLE 23 CRANE & MATERIAL HOIST OPERATIONS

23.1 General Contractor shall provide appropriate barriers around crane and material hoist to protect pedestrian-and vehicular traffic around operating area. When crane is operating or moving, flag men provided by General Contractor shall be utilized to prevent pedestrian and vehicular traffic from crossing the pathway of crane lift. General Contractor's flag men shall coordinate these activities with the appropriate security personnel.

23.2 Cranes and material hoists shall be safely secured and inaccessible during non-operating hours. General Contractor shall coordinate operation or erection of a crane or material hoist in the vicinity of the Medical Center with Medical Center Aeromedical Operations (Med-evac helicopter).

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23.3 Any damage to trees, shrubs or plant material at the placement of crane or material hoist shall be repaired by tree surgery or replaced as directed by Consultant.

### **ARTICLE 24 UTILITIES**

24.1 This Article modifies Article 8 of the General Conditions. The Owner will provide water and electricity for this Project. The General Contractor shall provide for all temporary taps, hoses, lines, boxes, lighting and installation of the same for construction operations. Electricity shall not be used for heating purposes. In the event that the General Contractor is wasteful with these utilities, the Owner shall charge the General Contractor accordingly.

#### **24.2.1.1 ENTIRE BUILDING OUTAGE**

The Owner's Project Manager is the General Contractor's contact with the University for requesting Utility Outages. The Owner's Project Manager will contact the proper departments and divisions within the University and receive approval from those units prior to allowing a planned outage to occur. The established standard within the University Departments and Divisions of an entire building or group of buildings shall be three weeks written notice. The written notice shall include the type of utility to be interrupted, reason for outage, length of outage, what will be affected by the outage and a statement of whether or not the materials are on hand to complete the Work. If a specific time is desired for the outage it should be included. The Owner's Project Manager will insure that all parties affected are contacted and that a time which is least disruptive to all parties is selected. At the appointed outage time, Work shall begin and proceed continuously with all required manpower until Work is complete at no added cost to the University. The Owner's Project Manager will then notify all affected departments or divisions.

#### **24.2.1.2 SECTION OF A BUILDING OUTAGE**

The Owner's Project Manager is the General Contractor's contact with the University for requesting Utility Outages. The Owner's Project Manager will contact the proper departments and divisions within the University and receive approval from those units prior to allowing a planned outage to occur. The established standard within the University Departments and Divisions of a section of a building shall be a written request one week prior to outage. The written request shall include the type of utility to be interrupted, when the outage is desired, reason for outage, length of outage, and what will be affected by the outage. The Owner's Project Manager will insure that all parties affected are contacted and that a time which is least disruptive to all parties is selected. At the appointed outage time Work shall begin and proceed continuously with all required manpower until Work is complete at no added cost to the University. The Owner's Project Manager will then notify all affected departments or divisions.

### **ARTICLE 25 CLEANING AND TRASH REMOVAL**

25.1 The General Contractor shall keep clean the entire area of new construction and shall keep streets used as access to and from the site free of mud and debris.

25.2 All exit ways, walks, drives, grass areas, and landscaping must be kept free from debris, materials, tools and vehicles at all times. Trim weeds and grass within the site area.

25.3 Upon completion of the Work, General Contractor shall thoroughly clean and re-sod grass areas damaged to match existing areas.

26.4 All utility markings are to be made with water based marking paint with low Volatile Organic Compounds (VOC's) and high solids.

26.5 Upon Completion of the project, buried utility paint markings sprayed on walks and hardscapes are to be removed by non-destructive means such as pressure washing. Do not use chemicals. If a washed area is noticeable, the entire surface must be washed and or blended to match surrounding areas.

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25.6 The General Contractor shall be responsible for removal from the site of all liquid waste or other waste (i.e. hazardous, toxic, etc.) that requires special handling on a daily basis.

25.7 Dumpsters will be provided and maintained by the General Contractor.

25.8 During Work at the Project site, the General Contractor shall clean and protect Work in progress and adjoining Work on a continuing basis. General Contractor shall apply suitable protective covering on newly installed Work where needed to prevent damage or deterioration until the time of Substantial Completion. General Contractor shall clean and perform maintenance on newly installed Work as frequently as necessary through remainder of construction period.

25.9 The General Contractor shall be responsible for daily cleaning of spillage's and debris resulting from his and his Sub-contractor's operations, (includes removal of dust and debris from wall cavities), and for providing closed, tight fitting (dustproof if required), waste receptacles to transport construction debris from the work area to the dumpster. Broom clean all floors no less than once a week. The General Contractor shall empty such receptacles into the trash container when full or when directed to be emptied by the Consultant and/or Owner's Project Manager, but not less than weekly. The use of hospital waste and trash receptacles is strictly prohibited, except as otherwise provided by the project specifications.

25.10 Failure to comply with the above requirements shall be cause for stopping work until the condition is corrected.

### **ARTICLE 26 BLASTING**

26.1 There shall be no blasting under any conditions on University of Kentucky property unless specified in these Special Conditions.

### **ARTICLE 27 CUTTING AND PATCHING - NEW AND EXISTING WORK**

27.1 New Work - Cutting and patching shall be done by craftsmen skilled and experienced in the trade or craft that installed or furnished the original Work. Repairs shall be equal in quality and appearance to similar adjacent Work and shall not be obviously apparent as a patch or repair. Work that cannot be satisfactorily repaired shall be removed and replaced.

27.2 Existing Construction - Refer to Architectural, Mechanical, and Electrical drawings for cutting and patching. All new Work shall be connected to the existing construction in a neat and workmanlike manner, presenting a minimum of contrast between old and new Work. Do all patching of the existing construction as may be required for the new construction to be done. Necessary patching, closing of existing openings, repairing and touching up shall be included as required for a proper, neat and workmanlike finished appearance. Any existing item that is to remain and is damaged during construction shall be replaced at the General Contractor's expense.

### **ARTICLE 28 UNRELATED PROJECTS**

28.1 Unrelated construction Projects may be under way in the vicinity of this Project or the site utility work during the course of the Work related to this Project. The General Contractor for this Project must coordinate with any other contractors regarding overlapping areas. See Article 42 - Separate Contracts of the General Conditions.

### **ARTICLE 29 OWNER SUPPLIED MATERIALS**

29.1 Owner, in an effort to expedite this Project, has pre-ordered certain long lead time items. The following is the list of material that has been pre-Ordered:

#### **1. Office Furniture**

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29.2 All Pre-Ordered Material was specified to be shipped to the Wethington Bldg. It will be the General Contractor's responsibility to receive and off load the Pre-Ordered Material. If there is damage to the Pre-Ordered Material, then the General Contractor is to notify the Owner's Project Manager immediately so that the Owner can seek replacement material.

### ARTICLE 30 REMOVED ITEMS (Not Used)

### ARTICLE 31 INTERIOR ENCLOSURE AND DUST ENCAPSULATION

31.1 Areas under construction or renovation shall be separated from occupied areas by suitable temporary enclosures furnished, erected and maintained by the General Contractor. Temporary enclosures shall be dust and smoke tight and constructed of non-combustible materials to prohibit dirt and air borne dust from entering occupied spaces. General Contractor to review with Consultant ways to provide ventilation for dust generated by demolition and fumes/vapors produced during installation of new materials.

31.2 General Contractor is responsible for coordinating with the Owner's Project Manager any equipment to be turned off prior to erecting temporary enclosures.

31.3 General Contractor shall protect all exhaust diffusers, equipment and electrical devices from the collection of dust. All areas shall be checked and cleaned prior to final acceptance of Work.

31.4 Dust and debris from Work operations shall be held to a minimum.

31.5 General Contractor shall construct temporary dust partitions at locations and as detailed on drawings. Closures used for dust barricade shall be constructed of non-combustible materials, (metal studs and gypsum board or fire retardant plywood).

31.6 General Contractor shall provide additional devices and materials and required to contain dust within Work area and protect personnel during course of Work.

31.7 Areas of minor renovation, consisting of the removal of doors and frames, blocking of openings, and other limited Work shall be separated by a dust partition of fire retarded polyethylene on studs.

31.8 Existing corridor doors may serve as dust barriers, except if removed for refinishing. In such cases, temporary wood doors must be substituted until original doors are replaced.

31.9 The General Contractor may assume existing walls which extend full height, floor to structure, shall be deemed appropriate to contain air borne dust. Cover any voids or penetrations.

31.10 Doors or windows in the perimeter walls surrounding the Project work area shall be sealed off with protective materials in a manner to prohibit dust from escaping the work area. These shall be left in place until all work creating dust is completed. Protective materials shall consist of fire retardant wood, metal studs, gypsum board or flame resistant plastic.

31.11 Entry passage to Work area shall be sealed off with zippered plastic opening or other acceptable means which allows periodic entry and closure of barricade closure.

31.12 Install and maintain a "sticky mat" on the floor in locations where construction crews leave the construction area and prior to entering ANY existing space in the building.

31.13 Install and maintain a temporary floor covering in any and all elevators being utilized for this project.

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## **ARTICLE 32 UKIT COMMUNICATIONS AND NETWORK SYSTEMS**

32.1 The communications wiring is to be provided, installed and terminated by the General Contractor using a certified and approved communications contractor. All work shall be done in compliance with the latest UKIT Communications and Network Systems Standards, and closely coordinated with UKIT-Communications and Network Systems.

## **ARTICLE 33 EMERGENCY VEHICLE ACCESS**

33.1 Emergency Vehicle Access must be maintained during construction. The General Contractor shall coordinate with the local Fire and Emergency Medical Services department(s) that would respond to an emergency during the initial start up of construction to ensure a complete understanding of their requirements.

## **ARTICLE 34 SMOKE DETECTORS / FIRE ALARM SYSTEMS- EXISTING AND/OR NEW FACILITIES**

34.1 General Contractor shall protect all smoke detectors in Work areas to prevent false alarms. The General Contractor will be responsible for any false alarm caused by dust created in their Work areas or dust traveling to areas beyond the Work past inadequate protection barriers. If there is a need for an existing or newly installed fire alarm system or parts of that system to be serviced, turned off, or disconnected, prior approval must be obtained from the Owner's Project Manager and notification given to the Campus Dispatch Office. The General Contractor must follow the procedure outlined for Utility Outages and any documented costs charged by the responding fire department due to a false alarm shall be paid by the General Contractor. As soon as all Work is completed, notification must be given to the Owner's Project Manager and to the Campus Dispatch Office prior to reactivation of the system. Prior to Final Payment to the General Contractor, all protected smoke detectors will be uncovered and tested.

34.1.1 When the function of any fire alarm, detection or suppression system is impaired, a temporary system shall be provided. General Contractor shall provide daily reports indicating the Superintendent has walked through the project at the end of each work period, to satisfy himself there are no present conditions that may result in an accidental fire. Portable fire extinguishers shall be on site during this time. The General Contractor is responsible for inspecting and testing any temporary systems on a monthly basis.

## **ARTICLE 35 SURVEYS, RECORDS, and REPORTS**

35.1 General: Working from lines and levels established by property survey, and as shown in relation to the Work, the General Contractor will establish and maintain bench marks and other dependable markers to set lines and levels for Work at each area of construction and elsewhere on site as needed to properly locate each element of the entire Project. The General Contractor shall calculate and measure from the bench marks and dependable markers required dimensions as shown (within recognized tolerances if not otherwise indicated), and shall not scale drawings to determine dimensions. General Contractor shall advise Sub-contractors performing Work of marked lines and levels provided for their use in layout of Work.

35.2 Survey Procedures: The General Contractor shall verify layout information shown on drawings, as required for his own Work. As Work proceeds, surveyor shall check every major element for line, level, and plumb (as applicable), and maintain an accurate Surveyor's log or Record Book of such checks available for General Contractor or Design Consultant's reference at reasonable times. Surveyor shall record deviations from required lines and levels, and advise Design Consultant or General Contractor promptly upon detection of deviations exceeding indicated or recognized tolerances. The General Contractor shall record deviations which are accepted (not corrected) on Record Drawings.

## **ARTICLE 36 TOBACCO PRODUCTS PROHIBITED**

## **010000S01- Special Conditions - General Contractor**

36.1 For areas located within Fayette County, Kentucky, the use of all tobacco products is prohibited on all property that is owned, operated, leased, occupied, or controlled by the University. "Property" for purposes of this paragraph includes buildings and structures, grounds, parking structures, enclosed bridges and walkways, sidewalks, parking lots, and vehicles, as well as personal vehicles in these areas. To view the Lexington campus boundaries: <http://www.uky.edu/TobaccoFree/files/map.pdf>.

36.2 For areas not located within Fayette County, Kentucky, smoking is prohibited in all owned, operated, leased, or controlled University buildings and structures, parking structures, enclosed bridges and walkways, and vehicles. Smoking is also prohibited outside buildings and structures within 20 feet of entrances, exits, air intakes, and windows, unless further restricted by division policy.

36.3 General Contractor employees violating this prohibition will be subject to dismissal from the Project.

36.4 For the full Administrative Regulation see University AR 6:5.  
<http://www.uky.edu/Regs/files/ar/ar6-5.pdf>

### **ARTICLE 37 ALTERNATES**

37.1 Alternate(s) will be accepted in the sequence of the Alternates listed on the Bid Form, and the lowest Bid Sum will be computed on the basis of the sum of the base Bid and any alternates accepted, within the budgeted amount.

### **ARTICLE 38 FIELD CONSTRUCTED MOCK UPS (Not Used)**

### **ARTICLE 39 PROJECT COORDINATION VIA COMPUTER**

39.1 The General Contractor and subcontractors are required to have an active email account to facilitate coordination of the project during construction and warranty.

39.2 To facilitate project construction coordination between the Consultant, the General Contractor, Subcontractors, and the University of Kentucky as the Owner, UK Capital Project Management Division (CPMD) is hosting an Internet/ Web-based Project Management System (WPMS) to help improve project communication and collaboration. The Consultant shall participate in the use of the WPMS (UK E-Communication® or other system at the Owner's discretion) providing collaboration between Owner, the Consultant and selected contractors.

39.2.1 Owner shall provide the General Contractor and subcontractors with user accounts and appropriate training for the web-based project management tool.

39.2.2 Utilization of, and training in the use of, the WPMS will be arranged for and supervised by Owner.

39.2.3 Participation of General Contractor is mandatory; others as determined by Owner. Participation of Subcontractors is not mandatory but will be offered at their discretion.

39.2.4 All participants are required to have access to the internet and the Microsoft Internet Explorer browser (version 5.0 or higher). A broadband connection to the internet (e.g. Cable modem, ISDN, DSL) is recommended, but not required.

39.2.5 The WPMS shall be utilized for the following functions, as a minimum: Posting Project Files, AE Amendments, Architect's Supplemental Information (ASI's), Closeouts, Consultant Invoices, Contracts, Defective Work in Place, Meeting Minutes, Payment Applications, Proposed Change Orders – Change Orders (PCO to CO's), Punch Lists, Reports (Contractor Daily Reports, Field Reports, Commissioning

## **010000S01- Special Conditions - General Contractor**

Reports), RFIs, SAP Equipment List, Schedules, and Submittals. The Document Library (Bid set Plans, Specifications and Addenda will be uploaded by Lynn Imaging.

39.2.6 Site camera monitors may be included at Owner's discretion.

39.2.7 Utilization of the WPMS shall be implemented by the Owner's representative.

39.2.8 Use of the system will provide consistent, real-time information for decision making. Additionally, all project data entered into the system will be archived to facilitate project record keeping. It is anticipated that proper use of the WPMS will improve efficiency of communications and reduce project related paperwork and clerical workload.

### **ARTICLE 40 HOT WORK PERMITS**

40.1 All work involving open flames or producing heat and/or sparks in occupied buildings on the University of Kentucky campus will require the General Contractor to obtain approval to perform "Hot Work" on site. This includes, but is not limited to: Brazing, Cutting, Grinding, Soldering, Thawing Pipe, Torch Applied Roofing, and Cadwelding. A copy of the Hot Work Permit and the Hot Work Permit Procedure will be passed out at the Preconstruction Conference for the General Contractor's use.

### **ARTICLE 41 INSURANCE**

41.1 Employers' Liability Insurance. The General Contractor shall acquire and maintain Employers' Liability insurance with at least \$500,000/\$500,000/\$500,000 limits of liability for all employees who will be working at the Project site.

41.2.1 Commercial General Liability Insurance. If the work involved requires the use of helicopters, a separate aviation liability policy with limits of liability of \$100,000,000 will be required. If cranes and rigging are involved, a rigger's liability policy with liability limits of \$20,000,000 is required in addition to an inland marine policy covering the value of the contents being moved.

41.2.1.1 The limits of liability shall not be less than \$1,000,000 each occurrence combined single limits for bodily injury and property damage.

41.2.2 Comprehensive Automobile Liability Insurance. Policy limits shall not be less than \$1,000,000 for combined single limits for bodily injury and property damage for each occurrence.

41.2.3 Not Used

41.2.4 Workers' Compensation - Statutory Requirements (Kentucky)

### **ARTICLE 42 KEY ACCESS**

42.1 If Construction Cores are NOT utilized, then one set of keys for access to the renovation project area will be provided to the General Contractor by the University's Project Manager. The General Contractor assumes responsibility for the safekeeping of the key(s) and its use. When leaving the renovation area all doors must be secured.

42.2 All keys must be returned to the University's Project Manager upon completion of project work as one of the requirements for Final Payment. Failure to return the keys may require re-keying of all doors in the work area up to and including the entire building if master keys are issued. The cost of re-keying of the door(s) accessed by the key(s) will be subtracted from the remaining contract dollars including contract retainage.

## **010000S01- Special Conditions - General Contractor**

42.3 All lost or stolen keys must be reported immediately to the University's Project Manager.

### **ARTICLE 43 CEILING CLEARANCE**

43.1 Work above ceiling: All work above an area with lay-in ceiling must be coordinated and installed so there is a minimum of 4" between the top of the ceiling grid runners and bottom of the installation. Installation shall not obstruct equipment access space or equipment removal space. Also, conduit and pipe attached to the wall must be above the 4" minimum level.

43.2 Coordination Between Trades: Request and examine all drawings and specifications pertaining to the construction before installing above ceiling work. Cooperate with all other contractors in locating piping, ductwork, conduit, openings, chases, and equipment in order to avoid conflict with any other contractor's work. Give special attention to points where ducts or piping must cross other ducts and piping, and where ducts, piping and conduit must fur into the walls and columns. Make known to other trades intended positioning of materials and intended order of work. Determine intended position of work of other trades and intended order of installation.

### **ARTICLE 44 METAL ANCHORS**

44.1 All anchoring devices utilized to secure materials to the building shall be metal. Plastic or plastic expansion components shall not be used. This shall include all fasteners for mechanical/electrical hangers.

### **ARTICLE 45 CONTRACTOR/SUPERINTENDENT EXPERIENCE**

45.1 For those projects impacting patient care the Construction Manager and Superintendent are required to have a minimum of five (5) years of construction experience in the past 10 years with projects involving patient care areas

### **ARTICLE 46 LOADING DOCK**

Contractor will adhere to all provisions outlined in 010000S03 Article 46 of the Medical Center Project Manual for General Contractor.

### **ARTICLE 47 CONSTRUCTION PATH**

Contractor will adhere to all provisions outlined in 010000S03 Article 47 of the Medical Center Project Manual for General Contractor.

### **ARTICLE 48 HOSPITAL PROJECT PROCEDURE**

Contractor will adhere to all provisions outlined in 010000S03 Article 48 of the Medical Center Project Manual for General Contractor.

### **ARTICLE 49 WORKING HOURS/ACCESS: FOR MEDICAL CENTER/HOSPITAL**

Contractor will adhere to all provisions outlined in 010000S03 Article 49 of the Medical Center Project Manual for General Contractor.



# **010000S01- Special Conditions - General Contractor**

## **ARTICLE 50 SECURITY BADGES AND MEDICAL CENTER SECURITY**

Contractor will adhere to all provisions outlined in 010000S03 Article 50 of the Medical Center Project Manual for General Contractor.

## **ARTICLE 51 HOSPITAL CONSTRUCTION CERTIFICATION**

Contractor will adhere to all provisions outlined in 010000S03 Article 51 of the Medical Center Project Manual for General Contractor.

## **ARTICLE 52 APPEARANCE**

Contractor will adhere to all provisions outlined in 010000S03 Article 52 of the Medical Center Project Manual for General Contractor.

## **ARTICLE 53 HIPAA (The Health Insurance Portability and Accountability Act)**

Contractor will adhere to all provisions outlined in 010000S03 Article 53 of the Medical Center Project Manual for General Contractor.

## **ARTICLE 54 SAFETY & FIRE PROCEDURES**

Contractor will adhere to all provisions outlined in 010000S03 Article 54 of the Medical Center Project Manual for General Contractor.

## **ARTICLE 55 INTERIM LIFE SAFETY MEASURES (ILSM)**

Contractor will adhere to all provisions outlined in 010000S03 Article 55 of the Medical Center Project Manual for General Contractor.

## **ARTICLE 56 TREE PROTECTION STANDARDS**

Contractor will adhere to all provisions outlined in 010000S02 Tree Protection Standards.

## **ARTICLE 57 COVID-19 POLICY**

Any and all companies/organizations working on the University of Kentucky's campus shall have in place for the period of the contract a COVID-19 policy that is consistent with the University of Kentucky's current COVID-19 policy.

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**GENERAL CONDITIONS OF THE CONTRACT  
FOR CONSTRUCTION BY A GENERAL CONTRACTOR  
University of Kentucky  
Capital Construction Division**

These General Conditions are binding upon the General Contractor and all Sub-contractors as each are subject to the provisions contained herein.

**ARTICLE 1 - DEFINITIONS**

1.1 Wherever used in these General Conditions or in other Contract Documents, the following terms have the meaning indicated which are applicable to both the singular and plural thereof:

1.1.1 ARCHITECTS SUPPLEMENTAL INSTRUCTIONS (ASI) - The term "ASI" means a written order issued by the Consultant that clarifies or interprets the Contract Documents, that orders minor changes in the Work, that does not require an adjustment in either cost or time, and that does not require a Change Order

1.1.2 BUSINESS DAY – The term "Business Day" means a Calendar Day that is not a Saturday, Sunday or legal holiday in Fayette County, Kentucky.

1.1.3 CALENDAR DAY - The term "Calendar Day" means a day of twenty-four hours measured from midnight to the next midnight.

1.1.4 CHANGE ORDER - The term "Change Order" means a written order to the General Contractor, signed by the Owner and issued after the execution of the Contract, directing a change in the Work or an adjustment in the Contract Amount or the Contract Time. A Change Order may be an agreed change by the General Contractor and the Owner or it may be a unilateral change by the Owner.

1.1.5 CONSULTANT - The term "Consultant" means the person and/or entity, whether singular or plural, either Architect, Engineer or other Consultant, who is or are identified as such in the Contract Documents.

1.1.6 CONTRACT - The term "Contract" means the Contract between Owner and General Contractor and consists of all Contract Documents as defined in Article 1.1.8 of these General Conditions.

1.1.7 CONTRACT AMOUNT - The term "Contract Amount" means the sum stated in the Agreement which represents the total amount payable by the Owner to the General Contractor for the performance of the Work under the Contract Documents, plus or minus adjustments as provided for in the Contract Documents or by approved Change Orders.

1.1.8 CONTRACT DOCUMENTS - The "Contract Documents" include the Agreement of Contract between the Owner and the General Contractor (the "Agreement"); the General Conditions; the Special Conditions; the General Contractor's Form of Proposal; the General Contractor's Bonds; the Specifications, Drawings and Addenda for the construction of the Project; and any Change Orders issued after execution of this Contract. The Contract Documents shall not be construed to create a contractual relationship of any kind between the Owner and any Sub-contractor, or any person or entity other than the General Contractor. Documents not included or expressly contemplated in this Article do not, and shall not, form any part of the Contract for Construction. Without limiting the generality of the foregoing, shop drawings and other submittals from the General Contractor or its

Sub-contractors and suppliers do not constitute a part of the Contract Documents. Except as otherwise provided, where these Contract Documents obligate the General Contractor to certain responsibilities or require the General Contractor to perform certain actions, the General Contractor may require these same responsibilities and/or actions of one or more Sub-contractors. However, assignment of such responsibilities or actions to one or more Sub-contractors shall not be construed to relieve the General Contractor of its obligation to the University under this contract.

1.1.9 CONTRACT TIME - The term "Contract Time", unless otherwise provided, means the specified number of consecutive Calendar Days following the stipulated commencement of the Work as stated in the Work Order, plus or minus adjustments as provided for by approved Change Orders, within which the General Contractor shall complete the Work required by the Contract and shall achieve certification of substantial and final completion.

1.1.10 GENERAL CONTRACTOR or (GC) - The term "General Contractor" or "GC" means the person or entity who will or has entered into a contract with the Owner that assumes the risk for construction of the Project as the general contractor, and who will provide consultation and collaboration regarding the construction during and after design of the Project. The GC shall execute and hold all construction Sub-contracts and Purchase Orders for the Project.

1.1.11 KRS REFERENCES - Reference to "KRS" means the "Kentucky Revised Statutes" adopted by the Commonwealth of Kentucky, including all laws that may have been revised, amended, supplemented or new laws enacted.

1.1.12 OWNER - The term "Owner" means the University of Kentucky, a statutory body corporate existing pursuant to Sections 164.100 et seq. of the Kentucky Revised Statutes.

1.1.13 PROJECT - The term "Project" means the total construction of the Work performed under the Contract Documents, which may be the whole or a part, and which may include construction by the Owner or by separate contracts.

1.1.14 PROJECT MANAGER - The term "Project Manager", when used alone, means the Owner's representative responsible for administration and management of the Project. The Owner's Project Manager during construction shall be the designated University of Kentucky Capital Projects Management Project Manager that is in charge of the Project. The term "General Contractor's Project Manager" or "GC Project Manager" means the individual employed by the General Contractor who is assigned to the Project to provide overall management during both the design and construction phases of the Project, and who has total responsibility for the successful completion of the Project

1.1.15 PROVIDE - The term "Provide," as used throughout the specifications, shall mean furnish, install and pay for.

1.1.16 SHOP DRAWINGS - The term "Shop Drawings" means drawings, diagrams, schedules, and other data specially prepared for the Work by the General Contractor or any Sub-contractor, manufacturer, supplier, or distributor to illustrate some portion of the Work.

1.1.17 SUBSTANTIAL COMPLETION - The term "Substantial Completion" is the point at which, as certified in writing by the Owner, a project is at the level of completion, in strict compliance with the contract, where (a) necessary approval by public regulatory authorities (and by other authorities having jurisdiction or as identified in Article 11.2, as necessary) has been given; (b) the Owner has received all required warranties and documentation, and (c) the Owner may enjoy beneficial use or

occupancy and may use, operate, and maintain the project in all respects, for its intended purpose. Partial use or occupancy shall not necessarily result in the project being deemed substantially complete and shall not be evidence of Substantial Completion. In order for the Owner to enjoy beneficial use or occupancy and use, operate, and maintain the project in all respects, for its intended purpose, the stage or progress of the Work or a designated portion thereof shall be sufficiently complete, accessible, operable and usable, and all parts, systems and site Work shall be 100% complete, cleaned and available for the Owner's full use without interruption in accordance with the Contract Documents, including but not limited to the provisions of Article 28 of these General Conditions. The Work will not be considered acceptable for Substantial Completion review until all Project systems included in the Work are operational as designed and scheduled, all designated or required governmental inspections and certifications have been made and approvals provided to the Owner, designated instruction of the Owner's personnel in the operation of systems has been completed, and all final finishes within the Contract Documents are in place. In general, the only remaining Work shall be minor in nature so that the Owner and/or the Owner's tenants could occupy the Project on that date and the completion of the Work by the General Contractor would not materially interfere or hamper the Owner's or the Owner's tenants' normal business operations. As a further condition of Substantial Completion acceptance, the General Contractor shall certify in writing that all remaining Work, the same being solely of a "punch list" nature, will be completed within thirty (30) consecutive Calendar Days following the date of Substantial Completion.

1.1.17.1 The parties agree that "substantial completion" as defined in Article No. 2 of the Agreement and Article 1 of the General Conditions, as extended by approved Change Order(s) pursuant to Article 18.1 of the General Conditions, shall be the "date of completion specified in the contract" for purposes of KRS. 45A.250(2).

1.1.18 SUB-CONTRACTOR - The term "Sub-contractor" means the person, company, corporation, joint venture or other legal entity with whom the General Contractor has executed a Contract for a portion of the Work.

1.1.19 WORK - The term "Work" means the scope of construction and services required by the Contract Documents and all approved Change Orders, whether completed or partially completed, and includes all other labor, materials, equipment, and services provided or to be provided by the General Contractor to perform and complete the General Contractor's obligations under the Contract in an expeditious, orderly and workmanlike manner. The Work may constitute the whole or a part of the Project.

1.1.20 WORK ORDER - The term "Work Order" means a written notice by the Owner to the General Contractor authorizing the General Contractor to commence Work under the Contract and establishing the beginning date from which the time for Substantial and Final Completion shall be established.

1.1.21 UNIT PRICE - The term "Unit Price" means the amount per unit of measurement for materials or services as described in the bid documents.

## **ARTICLE 2 - CONSULTANT**

2.1 The Consultant will be the Owner's representative during construction and until the Work is complete. The Consultant will advise and consult with the Owner. The Owner's instructions to the General Contractor may be forwarded through the Consultant.

2.2 The Consultant will regularly, but no less frequently than monthly, visit the site to become familiar with the progress of the Work, the quality of the Work being provided and to determine if the

Work is proceeding in accordance with the Contract Documents. On the basis of these on-site inspections, the Consultant will inform the Owner of the progress of the Work, will advise the Owner of any defects and deficiencies observed in the Work and, when appropriate, will certify to the Owner that the Work in place equals or exceeds the amount requested by the General Contractor on all applications for progress payments.

2.2.1 If applicable for the Work, the Consultant will verify to the Owner that the General Contractor is performing erosion prevention and sediment control inspections as required by the Kentucky Division of Water Construction General Permit (KYR10) at least once every 7 days and shall include the findings in the site visit reports.

2.3 The Consultant will be the interpreter of the requirements of the drawings and specifications and any changes made to the drawings and specifications.

2.4 Claims, disputes, and other matters in question that arise relating to the execution or the progress of the Work shall be referred in writing to the Consultant by the General Contractor. The Consultant will provide a response in accordance with and subject to the provisions of Article 38 of these General Conditions

2.5 The Consultant will have the authority to reject Work which does not conform to the Contract Documents or to the required level of quality and performance.

2.6 The Consultant will review and approve, or take other appropriate action upon receipt of the General Contractor's submittals such as Shop Drawings, product data, and samples. The review of submittals will be for general conformance with the design concept of the work, and for compliance with the information provided by the Contract Documents. Such review will not relieve the General Contractor of any responsibility for errors or omissions in submittals, and will in no way constitute a waiver of or change to the requirements of the Contract Documents.

2.6.1 The Consultant's review and response will be completed with reasonable promptness with a goal of ten (10) business days or less. The Consultant's review of a specific item shall not indicate approval of an assembly of which the item is a component.

2.7 The Consultant will prepare Change Orders for the Owner to direct changes in the Work. Minor changes in the Work, not involving modifications to the contract cost or completion times and that are consistent with the purpose of Work, may be directed by the Consultant through Architectural Supplemental Instructions (ASI).

2.9 When requested by the General Contractor, the Consultant will conduct inspections to determine if the Project is at the level of completion required by and in strict compliance with the Contract such that the Owner may enjoy beneficial use or occupancy and may use, operate, and maintain the project in all respects, for its intended purpose, as further defined in the Contract. If the level of completion warrants, the Consultant will confirm that all necessary approvals by public regulatory authorities or other authorities having jurisdiction have been given, will confirm that the Owner has received all required warranties and documentation, will recommend dates for certification of Substantial Completion and Final Completion by the Owner, and will complete and submit the Notice of Termination of coverage under the KPDES General Permit for Storm Water Discharges Associated with Construction Activity.

2.10 The General Contractor will accept direction for the Work on the Project only from the Owner's Project Manager or from the Consultant. Requests for information from the General Contractor shall be directed to the Consultant.

## **ARTICLE 3 - CORRELATION AND INTENT OF CONTRACT DOCUMENTS**

3.1 Execution of the Contract by the General Contractor is a representation that the General Contractor has or shall thoroughly and carefully examine the site of the of Work; shall timely investigate all conditions which can affect the Work or its cost, including but not limited to availability of labor, materials, supplies, water, electrical power, roads, access to the site, uncertainties of weather, water tables, the character of equipment and facilities needed to perform the Work, and local conditions under which the Work is to be performed; and further, that the General Contractor shall insure that the documents issued for bidding by Sub-contractors reflect the results of this investigation and are adequate to complete the Work. It is the responsibility of the General Contractor to be familiar with and comply with all Federal, State, and local laws, ordinances, and regulations which might affect those engaged in the Work, and to be familiar with the materials, equipment, or procedures to be used in the Work, or which in any other way could affect the completion of the Work. The General Contractor shall carefully study and compare the Contract Documents with each other and with other information provided to the General Contractor by the Consultant or the Owner pursuant to the Contract Documents and shall notify the Owner and the Consultant in writing of any errors, inconsistencies or omissions in the Contract Documents recognized by the General Contractor. Any failure to properly familiarize itself with the proposed Work shall not relieve the General Contractor from the responsibility for completing the Work in accordance with the Contract Documents.

3.2 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the General Contractor. Labor or materials which are reasonably inferable from the Contract Documents and which are necessary to produce the desired result, even though not specifically mentioned in the Contract Documents, shall be included in the Work at no additional cost to the Owner.

3.3 In the event a question arises regarding the meaning or intent of the Contract Documents, the General Contractor shall report it by preparing an RFI in eCommunication® to the Consultant. The Consultant shall furnish, with reasonable promptness and with a goal of three (3) business days and by whatever means as may be appropriate, additional instructions necessary for the proper execution of the Work. All such drawings and instructions shall be consistent with the Contract Documents, true developments thereof, and reasonably inferable therefrom. The Work shall be executed in conformity therewith and the General Contractor shall do no Work without proper drawings and instructions. Items indicated on drawings as "N.I.C." or "Not In Contract" are shown for explanation purposes only and are not to be included in this Contract.

3.4 The Contract Documents are complementary, and what is required by one shall be binding as if required by all. In case of conflicts between the various documents, the order of precedence will be as follows: (1) Addenda, (2) Special Conditions, (3) General Conditions, (4) Technical provisions of the Specifications and (5) Drawings.

3.5 Any notice to the General Contractor from the Owner regarding this Contract shall be in writing and delivery and service of such notice shall be considered complete when sent by certified mail to the General Contractor at General Contractor's last known address. Such notice may also, at the Owner's election, be hand-delivered to the General Contractor or the General Contractor's authorized representative.

## **ARTICLE 4 - PRE-CONSTRUCTION CONFERENCE**

4.1 Following the execution of the Contract, a pre-construction conference will be held. Representatives of the Capital Project Management Division, Consultant, General Contractor, and all



major Sub-contractors shall be present to discuss the time for construction, methods and plan of operation, authority of the Consultant, procedures for handling shop drawings, progress estimates and requests for payments, and other relevant issues. The time and location of this meeting will be the responsibility of the General Contractor in consultation with the Consultant, Owner and other interested parties.

4.2 Environmental aspects of the project, including erosion prevention and sediment control (EPSC) and storm water management shall be discussed during this conference. The Group shall discuss the Storm Water Pollution Prevention Plan (SWPPP) to ensure that all parties understand the requirements. During this meeting the responsibility for reading the rain gage on a daily basis will be established. The Contractor will identify the initial measures to be installed prior to land disturbing activities beginning. Any modifications to the SWPPP due to constructability issues should be discussed at this conference.

## **ARTICLE 5 - SHOP DRAWINGS**

5.1 The General Contractor shall submit a shop drawing and product sample submittal schedule to the Consultant establishing dates for the submission of Shop Drawings and product samples prior to the submittal of the General Contractor's first application for payment for construction phase services. The schedule shall have been coordinated with all Sub-contractors and material suppliers as well as the General Contractor's construction schedule and shall allow for adequate and reasonable time for review of the samples and submittals by the Consultant. The General Contractor shall be responsible for compliance with the submittal schedule and shall insure that the Submittal Schedule is maintained in order to accurately reflect the status of processing all required submittals.

5.2 The General Contractor shall review product samples and shop drawings for compliance with the requirements of the Contract Documents, and shall submit them to the Consultant in accordance with submittal procedure and schedule established. The General Contractor's review and submittal to the Consultant of any shop drawing or sample shall constitute a representation to the Owner and Consultant that a) the General Contractor has determined and verified all quantities, dimensions, field construction criteria, materials, catalog numbers, and similar data, or assumes full responsibility for doing so, and that b) each shop drawing or sample has been reviewed or coordinated with the requirements of the Work and the Contract Documents. Shop drawings and submittal requirements shall not be deemed satisfied until approvable documents are received by the Consultant. Incorrect or incomplete submittals will be returned to the General Contractor without action. No claim for additional time or extension of the contract will be considered if such claim is the result of failure by the General Contractor to provide correct, accurate, complete and approvable submittals.

5.3 The Consultant will review submittals with reasonable promptness, and take appropriate action or return submittals to the General Contractor for corrections as may be required. The General Contractor shall make any corrections required by the Consultant for compliance with the Contract and shall return the required number of corrected copies of shop drawings and resubmit new samples until approved. The General Contractor shall direct specific attention, in writing, or on resubmitted shop drawings, to revisions other than the corrections called for by the Consultant on previous submissions.

5.4 Where a shop drawing or sample submission is required by the specifications, no related Work shall be commenced until the submission has been accepted in writing by the Consultant. The review and acceptance shall be only for conformance with the design concept of the Project and for compliance with the information given in the Contract Documents. The acceptance of a separate item will not indicate acceptance of the assembly in which the item functions. A copy of each accepted

shop drawing and product sample shall be kept in good order by the General Contractor at the site and shall be made available to the Consultant on request.

5.5 The Consultant's acceptance of Shop Drawings or samples shall not relieve the General Contractor from the responsibility for any deviations from the requirements of the Contract Documents unless the General Contractor has in writing called the Consultant's attention to such deviation at the time of submission and the Consultant has given written approval to the specific deviation. Any acceptance by the Consultant does not relieve the General Contractor from responsibility for errors or omissions in the Shop Drawings.

## **ARTICLE 6 - LAYING OUT WORK**

6.1 The General Contractor will secure all data at the site of the building such as grades of lot, convenience of receiving and sorting material, location of public services, and other information which will have a bearing proposals or on the execution of the Work and shall address these issues in the preparation of scopes of work for the Subcontract bid packages. No allowance shall be made for failure of the General Contractor to obtain such site information prior to submitting their proposal or to include such information in the Subcontract bid packages, and no adjustment to the General Contractor's Contract amount or stipulated time for completion shall be allowed when due to failure by the General Contractor to do so.

6.2 The General Contractor shall be responsible for all lines, levels and measurements of all Work executed under the Contract. The General Contractor shall verify the figures before laying out the Work and will be held responsible for any error resulting from failure to do so. Working from lines and levels established by the property survey or by other Contract Documents, and as shown in relation to the Work, the General Contractor will establish and maintain bench marks and other dependable markers to set lines and levels for Work at each area of construction and elsewhere on the site as needed to properly locate each element of the entire Project. The General Contractor shall calculate and measure from the bench marks and dependable markers required dimensions as shown (within recognized tolerances if not otherwise indicated), and shall not scale drawings to determine dimensions. The General Contractor shall advise Sub-contractors and trades persons performing Work of marked lines and levels provided for their use in layout work. The General Contractor shall verify layout information shown on drawings as required for the Work.

6.3 The General Contractor shall be responsible for coordination of the installation of all elements of the Work, including preparation of coordination drawings if required by the Contract Documents or deemed necessary by the General Contractor for performance of the Work.

6.4 If any encroachments are made by the General Contractor or any Sub-contractor on any adjacent property, the General Contractor shall, at the General Contractor's expense, and within thirty (30) Calendar Days after written notice from the Owner or the Consultant, correct any encroachments and obtain approval from the owner of such adjacent property for any encroachments that cannot be feasibly corrected. The General Contractor shall not be entitled to any adjustment to the Contract Amount or the Contract Time as a result of any such encroachment or the correction thereof.

## **ARTICLE 7 - PLANS, DRAWINGS, SPECIFICATIONS AND RECORD DRAWINGS**

7.1 Unless otherwise provided in the Contract Documents, the Owner will furnish the General Contractor free of charge one electronic or reproducible copy of the Drawings and Specifications for execution of the Work. The General Contractor shall pay for the cost of duplication of all sets required over and above this amount.

7.2 The cost of additional plans, specifications and official contract documents for use by Sub-contractors for bidding and for construction shall be borne by the General Contractor or by the Sub-contractors. Arrangements for orders and payment for plans, specifications and other contract documents must be made with Lynn Imaging, Lexington, Kentucky (<http://www.ukplanroom.com>) or by phone at 1.800.888.0693 or 859.255.1021) before a set of documents will be issued.

7.3 The General Contractor shall keep one copy of all Contract Documents, including Drawings, Specifications and Shop Drawings on the site, in good order. A qualified representative of the General Contractor shall record on these documents, from day to day as Work progresses, all changes and deviations from the Contract Documents. Prior to Substantial Completion, the General Contractor shall complete and turn over to the Consultant the As-Built drawings, with a digital copy (in PDF format) submitted to the Owner simultaneously. The As-Built drawings shall consist of a set of drawings which indicate all field changes that were made to adapt to field conditions, changes resulting from Change Orders and all concealed and buried installations of piping, conduit and utility services. All buried and concealed items, both inside and outside the facility, shall be accurately located on the As-Built drawings as to depth and in relationship to not less than two permanent features such as interior or exterior wall faces. The As-Built drawings shall be clean and all changes, corrections and dimensions shall be given in a neat and legible manner in a contrasting color. For any changes or corrections in the Work which are made subsequent to the Substantial Completion Inspection, revisions shall be made to the As-Built drawings and submitted to the Consultant prior to final payment. Approval of the final payment request shall be contingent upon compliance with these provisions.

7.4 All drawings, specifications and copies thereof, furnished by the Consultant to the Owner, are the property of the University of Kentucky. They shall not be used by the Consultant, General Contractor, or any Sub-contractor or Supplier on any other Project.

## **ARTICLE 8 - TEMPORARY UTILITIES**

8.1 The General Contractor shall provide and pay for, unless modified in the Special Conditions, all temporary conveniences including, but not limited to, wiring, lighting, power and electrical outlets, heat, water, and sanitary facilities required for construction. In the event the Owner elects to make available, at no cost to the General Contractor, the electric power required for construction activities, the electric power supplied shall not be utilized as a means to provide temporary heat or for welding.

8.2 The General Contractor is responsible for paying all utility costs, whether the costs are from an outside utility company or from the University, for utility services used in the course of completing the Work. The General Contractor shall provide temporary heating, ventilation, telephones, water, electricity, portable gas, lighting for the Work, safety lighting, security lighting, and trash removal/dumpster service for both General Contractor and Sub-contractor use during the Project. Work and safety lighting shall be provided continuously during working hours. Security lighting shall be provided at all hours of darkness.

## **ARTICLE 9 - MATERIALS, EQUIPMENT, APPLIANCES, AND EMPLOYEES**

9.1 Unless otherwise provided in the Contract Documents, the General Contractor shall provide and pay for all materials, labor and personnel, tools, equipment, construction equipment and machinery, utilities, supplies, appliances, transportation, taxes, temporary facilities, licenses, permits and all other facilities and incidentals necessary for the furnishing, performance, testing, start-up and the proper execution and completion of the Work safely, without damage to persons and property, and in compliance with all applicable law. The General Contractor shall furnish, erect, maintain, and

remove at the completion of the Contract, all temporary installations as may be required during the construction period.

9.2 Immediately following the execution of each of the sub-contracts, the General Contractor shall determine the source of supply for all materials required under that sub-contracts and the length of time required for their delivery, and shall assure that orders are placed for such materials in sufficient time to assure delivery to the site so that such materials are available to be incorporated into the Work when needed to comply with the schedule of Work.

9.3 The General Contractor shall immediately notify the Consultant in writing of any known problems with the procurement, fabrication or ordering of any materials. Unless changes are approved in writing by the Consultant, the General Contractor will not be excused for delays in securing materials specified.

9.4 The General Contractor or Sub-contractors shall not place purchase orders or issue contracts for materials, supplies, equipment and services necessary to complete this Project using the name of the University of Kentucky. All orders placed by the General Contractor that are related to this Project must use the name of the General Contractor or Sub-contractor placing the order. The use of the University of Kentucky's name for ordering purposes is strictly prohibited. Payment for all goods and services required for the completion of the Work is the sole responsibility of the General Contractor. Any invoices received at the University that are related to this Project will be immediately forwarded to the General Contractor. Copies of these invoices will be made and placed in the General Contractor's file and proof must be provided that these invoices have been paid in full prior to the processing of the next scheduled application for progress payment.

9.5 The route for delivery of all materials to the Project shall be coordinated with the Owner's Project Manager.

9.6 The General Contractor shall be responsible for the proper and adequate storage of materials and equipment. Unless otherwise provided in the Contract Documents, all materials shall be of good quality and new. Workmanship and materials supplied and incorporated into this Work shall be of first quality. The General Contractor, if required, shall furnish satisfactory evidence as to the kind and quality of materials.

9.7 The General Contractor shall at all times enforce strict discipline and good order among all employees and Sub-contractors. The conduct of all individuals performing Work or operations related to the Work is the responsibility of the General Contractor. The consumption of alcohol or drugs on the job by any workers is strictly prohibited. Any individual apprehended under the influence of alcohol or drugs on the premises at any time shall be subject to automatic removal from the Project by the General Contractor, the Consultant or the Owner. Improper conduct of any kind will not be permitted and may result in the offending individual, Sub-contractor or General Contractor being barred from the Owner's premises. The General Contractor shall not permit the employment on the Project of any person unfit or not skilled in the Work assigned.

## **ARTICLE 10 - ROYALTIES AND PATENTS**

10.1 The General Contractor shall pay all royalties and license fees. If a particular process, product or device is specified in the Contract Documents and it is known to be subject to patent rights or copyrights, the existence of such rights shall be disclosed in the Contract Documents and the General Contractor is responsible for payment of all associated royalties. The General Contractor hereby agrees to indemnify, defend and hold the Owner, and any subsidiary, parent, or affiliates of the Owner, or other persons or entities designated by the Owner, and their respective directors, officers, agents,

employees and designees (collectively, the “Indemnities”) harmless from all losses, claims, liabilities, injuries, damages and expenses, including attorneys’ fees and legal expenses, that the Indemnities may incur as a result of the General Contractor’s failure to strictly comply with its obligations under this Paragraph 10.1.

## **ARTICLE 11 - SURVEYS, PERMITS, REGULATIONS, AND STANDARD CODES**

11.1 The Owner will furnish only such surveys that are specifically required by the Contract Documents. Approvals, assessments, and easements for permanent structures or permanent changes in existing structures shall be secured and paid for by the Owner, unless otherwise specified. All required utility tap-on fees shall be secured and paid for by the General Contractor, or included in a sub-contract, including the Lexington-Fayette Urban County Government (LFUCG) sewer tap-on fee. All construction permits, where required by local ordinances, except excavation permit, shall be obtained by the General Contractor, but no fee shall be charged to or paid by the General Contractor as the Owner is exempt from such charges. A Contractor's license fee for doing business in the locale, if applicable, shall be paid for by the General Contractor.

11.2 All branches of Work shown on the plans and specifications shall be executed in strict compliance with all state and federal regulations and codes, with all national codes, and with the requirements of both ADA and JCAHO when applicable.

11.3 The Contractor, on projects disturbing 1 acre or more, or projects less than 1 acre that are part of a large common development plan, including grading, clearing, excavation, material laydown or other earth moving activities, shall assure full compliance with the requirements of the KYR10 and shall:

11.3.1 File a Notice of Intent (KPDES FORM eNOI-SWCA) with the Kentucky Division of Water and copy the UKCPM Project Manager and Water Quality Manager prior to the start of any excavation, grading or site development work.

11.3.2 The permittee (contractor) shall develop a Stormwater Pollution Prevention Plan (SWPPP) based on the Erosion Prevention and Sediment Control Plan (EPSC) as a minimum design standard. Ensure all requirements of KYR10 are fully addressed in the SWPPP. **Once the SWPPP is written, forward a copy to the Capital Projects Project Manager and to the Water Quality Manager for approval. Work cannot begin until SWPPP is approved and permit coverage obtained.**

11.3.3 Install BMP’s such as, basins, traps, drainage, and sediment barriers before beginning land disturbing activities, including the construction entrance/exit. Once prevention measures have been installed, grading can commence. In the event a new construction entrance is added to the site, this new entrance must be built according to the EPSC design details with a wheel wash, a water supply and a sediment catch basin for washed wheel sediment.

11.3.4 Maintain all measures in working condition. Perform maintenance activities identified during inspections prior to the next rain event. Remove sediment from BMPs when 1/3 the storage volume has been filled.

11.3.5 Stabilize disturbed areas within 14 days of inactivity or reaching final grade on any portion of the site according to permit requirements.

11.3.6 Inspect the site every 7 calendar days and after each rainfall of ½” or more. Document site conditions, rainfall, maintenance activities needed and performed, stabilization needed and performed, and where new measures are needed. Discuss deficiencies with UK Project Manager and Water Quality Manager and note on the SWPPP Inspection Sheets.

Per the KPDES Permit, Section 2.1.7. “Inspections – Permittee Conducted”. “Inspections shall be performed by personnel knowledgeable and skilled in assessing conditions at the construction site that could impact storm water quality and assessing the effectiveness of erosion prevention measures, sediment control measures, and other site management practices chosen to control the quality of the storm water discharges. Inspectors shall have training in storm water construction management such as Kentucky Erosion Prevention & Sediment Control (KEPSC), Certified Professional in Stormwater Quality (CPSWQ), Certified Erosion, Sediment and Stormwater Inspector (CESSWI), or other similar training.”

Inspections shall include a tour of the total site and verification that all BMPs are performing as constructed. Inspector shall certify that all observations are correct as stated and sign and date the inspection form.

11.3.7 Keep Permit, SWPPP, weekly/rain event inspections sheets in binder in construction trailer. Any BMP change/alteration from SWPPP and EPSC plan must be noted on the EPSC and SWPPP.

**11.3.8 No soil and sediment shall leave the construction site. BMPs shall be repaired immediately if failure has occurred. No Mud shall be permitted on any street. All entrances/exits shall have a means by which to wash wheels. If an entrance/exit does not have a wheel wash, that exit shall not be used in muddy conditions. If for any reason mud is tracked offsite, the area must be cleaned in such a way as to prevent sediment from entering the storm sewer system. The use of tractor brooms solely will not be permitted.**

11.3.9 When it is necessary to dewater an excavation, proper BMPs must be implemented. Dewatering filter bags must be sized and used according to manufacturer’s requirements and Standard Operating Procedures for Dewatering Bags.

11.3.10 UK (the MS4) routinely inspects sites for compliance with the EPSC/SWPPP. Any deficiencies noted become record for the Kentucky Division of Water and shall be remedied/installed as soon as site conditions are favorable but no more than 7 days from the inspection date.

11.3.11 At the conclusion of the project and all bare areas, slopes and ditches are 70% vegetated with the permanent ground cover, the contractor shall notify the UK Project Manager and Water Quality Manager and request a final site inspection prior to filing a “Notice of Termination (NOT) with the state. This inspection verifies that Construction BMPs can be removed, and Post-Construction BMPs are in place and functioning.

**11.3.12 Failure of the site contractor (permittee of the KPDES Permit) to timely comply with requirements of KPDES, the Construction Manager shall inform the site contractor that a third party contractor shall be retained to remediate all BMP deficiencies immediately, and all third party costs shall be passed to the permittee of the KPDES Permit. Any fines or other costs resulting from failure to comply, levied against the Owner will be assessed against the Construction Manager’s or General Constructor’s funds.**

11.3.13 Refer to 334000S01 STORM DRAINAGE UTILITIES – Information for Consultants & Contractors.

11.3.14 Reference to standards, codes, specifications, and regulations refer to the latest edition of printing in effect at the date of issue shown in the Contract Documents unless another date is implied by the suffix number of the standard.

11.4 Reference to standards, codes, specifications, and regulations refer to the latest edition of printing in effect at the date of issue shown in the Contract Documents unless another date is implied by the suffix number of the standard.

11.5 The General Contractor shall furnish a final occupancy permit from the proper agency or agencies as required.

11.5 The General Contractor shall, by provision within each applicable sub-contract or by inclusion in the lump sum fee proposed to the Owner, insure the payment of all sales, consumer, use and similar taxes for materials, equipment and supplies incorporated into the Work, by unless otherwise specified in the bid documents.

## **ARTICLE 12 - PROTECTION OF WORK, PROPERTY, AND PUBLIC**

12.1 The General Contractor shall continuously maintain adequate protection of all Work from damage and shall protect the Owner's property from injury or loss arising in connection with this Contract. Except as otherwise covered by Builder's Risk insurance, the General Contractor shall pay for any such damage, injury, or loss, except such as may be directly due to errors in the Contract Documents or caused by agents or employees of the Owner. The General Contractor shall adequately protect adjacent property as provided by law and the Contract Documents.

12.2 In an emergency affecting the safety of life, or of the Work, or of adjoining property, the General Contractor, without special instruction or authorization from the Consultant or the Owner, is obligated to act to prevent such threatened damage, loss or injury.

12.3 The General Contractor shall maintain fire protection as required by the Kentucky Building Code. Access to the Project site and surrounding buildings for local fire truck access must be maintained during construction. The General Contractor shall maintain construction to allow access to new, existing or temporarily relocated standpipes, fire hydrant connections and fire alarm communication panels pursuant to Section 3018.8 of the Kentucky Building Code. If the General Contractor utilizes the Owner's fire protection equipment, the General Contractor shall replace any such materials lost, consumed or misplaced during the Contract period. The General Contractor is responsible for any false alarms caused by dust created in the Work area or dust traveling to areas beyond the Work area due to inadequate dust protection barriers. Should there be a need for any existing or newly installed fire alarm system, or parts of a system that requires service, to be removed from service or disconnected, prior approval must be obtained from the Owner and the General Contractor shall immediately provide alternate protection such as a fire watch until such systems are returned to full normal operations. When work or service is completed on a disabled fire alarm system, the Owner shall be immediately notified so the system can be placed in service.

12.4 The General Contractor and Sub-contractors are responsible for the security of their own materials, tools and equipment at the Project site.

12.5 The General Contractor shall provide to the Owner's Project Manager a key to General Contractor's field office or job trailer.

## **ARTICLE 13 - BLASTING**

13.1 Blasting is not allowed unless permission is granted in the Special Conditions. Should blasting be allowed by the Special Conditions, it shall be completed in accordance with all laws, regulations, ordinances and instructions contained in the Special Conditions.

## **ARTICLE 14 - CONSTRUCTION AND SAFETY DEVICES**

14.1 The General Contractor shall provide safety controls for protection of the life and health of employees and visitors. The General Contractor will utilize precautionary methods for the prevention of damage to property, materials, supplies, and equipment, and for avoidance of work interruptions in the performance of this Contract. In order to provide such safety control, the General Contractor shall comply with all pertinent provisions of the Kentucky Fire Prevention Code, Kentucky Building Code, Kentucky Labor Cabinet's Division of Occupational Safety and Health Program Construction Standards and Federal Occupational Safety and Health (Construction) Standards that are in effect at the time the Contract is entered into and during the period in which the Contract is to be performed.

14.2 The General Contractor shall provide a written safety program which includes all pertinent written specialty standards such as, but not limited to, Control of Hazardous Energy Sources (Lockout/Tagout), Hazard Communications Program, First Aid, Blood Borne Pathogen Program, Respirator Use Program and Hearing Conservation Program. The General Contractor shall require all Sub-contractors to have an effective written safety program or be required to follow the General Contractor's written safety program.

14.3 The General Contractor shall maintain an accurate record of and shall report to Kentucky Labor Cabinet's Division of Occupational Safety and Health in the manner and on the forms prescribed by that Division, exposure data and all accidents resulting in death, traumatic injury, occupational disease. The General Contractor shall maintain an accurate record of and shall report to the Owner's Project Manager, any damage to property, materials, supplies, and equipment incident to Work under this Contract.

14.4 The Kentucky Labor Cabinet's Division of Occupational Safety and Health may notify the General Contractor of any noncompliance with the foregoing provisions. The General Contractor shall, upon receipt of such notice, immediately correct the cited conditions. Notice delivered to the General Contractor or the General Contractor's representative at the site of the Work shall be deemed sufficient for this purpose. If the General Contractor fails or refuses to comply promptly, the Owner may issue an order stopping all or part of the Work until satisfactory or corrective action has been taken. Failure or refusal to comply with the order will be grounds for reducing or stopping all payments due under the Contract to the General Contractor. No part of the construction time lost due to any such stop order shall be cause for, or the subject of a claim for, extension of time or for additional costs or damages by the General Contractor.

14.5 The General Contractor or any Sub-contractor shall immediately contact the University of Kentucky's Department of Occupational Health and Safety through the Owner's Project Manager should they be selected for an inspection by the Kentucky Occupational Safety and Health Compliance Division.

14.6 Compliance with the provisions of the foregoing sections by Sub-contractors shall be the responsibility of the General Contractor.

14.7 Nothing in the provisions of this Article 14 shall prohibit the U.S. Department of Labor or the Kentucky Department of Labor Division of Occupational Safety and Health from enforcing pertinent occupational safety and health standards as authorized under Federal or State Occupational Safety and Health Standards.

14.8 The General Contractor shall take all necessary precautions for the safety of employees on the Work, and shall comply with all applicable provisions of federal, state, and municipal safety laws and building codes to prevent accidents or injury to persons on, about, or adjacent to the premises



where the Work is being performed. If the General Contractor or any Sub-contractor has questions related to the health or safety required by their written safety program, they should contact the Kentucky Labor Cabinet Occupational Safety and Health Program Division of Education and Training. The General Contractor shall designate a responsible member of the on-site Work force as the safety officer and shall report to the Consultant and to the Owner the name of the person selected. The duties of the safety officer include the enforcement of safety regulations.

## **ARTICLE 15 - HAZARDOUS MATERIALS**

15.1 If the General Contractor encounters material reasonably believed to be or suspected to be asbestos containing material, lead, polychlorinated biphenyls (PCBs), fluorescent light bulbs and ballasts, mercury or other hazardous material, the following procedures must be followed:

15.1.1 The General Contractor shall immediately stop Work in the affected area and notify the Owner's Project Manager. The Owner's Project Manager will contact the Owner's Environmental Health and Safety unit to arrange for collection of samples, review of existing data, or other testing necessary to confirm the presence of hazardous materials. The Owner's Project Manager will notify the General Contractor in writing of the results. Until that notification is received, the Work must not continue in the affected area.

15.1.2 If the material is confirmed to be asbestos, lead, polychlorinated biphenyls (PCBs), fluorescent light bulbs and ballasts, mercury or other hazardous material, the Owner will take appropriate action to remove the material before the General Contractor can continue Work in the affected area.

15.1.3 The General Contractor shall not be required to perform any Work related to asbestos, lead, polychlorinated biphenyls, or other hazardous material. The General Contractor is advised that certain classes of building materials (thermal system insulation, sprayed or troweled surfacing materials, and resilient flooring) installed before 1981 are required by law to be treated as asbestos containing until proven otherwise. These presumed asbestos containing materials must not be disturbed without confirmation from the Owner that asbestos is not present.

15.2 The Owner, the General Contractor, and Sub-contractors will be under the requirements of the OSHA Hazard Communication Standard (29) CFR 1910.1200. The General Contractor and Sub-contractors must provide their own written Hazard Communication Program. The Hazard Communication Standard must include: (1) A list of the hazardous chemicals to which the General Contractor's employees may be exposed; (2) Statement of the measures that General Contractor's employees and Sub-contractors may take to lessen the possibility of exposure to the hazardous materials; (3) The location of and access to the MSDS's related to the hazardous chemicals located in the Work area; (4) Procedures that the General Contractor's employees and Sub-contractors are to follow if they are exposed to hazardous chemicals above the Permissible Exposure Limit (PEL). Material Safety Data Sheets (MSDS) may be reviewed upon request by the General Contractor or any Sub-contractor as they pertain to the Work areas of the Project. Photocopies of the MSDS's may be made by General Contractor at its expense.

15.3 The General Contractor and Sub-contractors shall provide the Owner with a list of any hazardous materials that will be used on the job site that may be exposed to the Owner's employees. The General Contractor and Sub-contractors shall provide the Owner with copies of Material Data Sheets for materials to be used.

15.4 It is the policy of the Owner that PCB containing equipment will be treated by the General Contractor and the Owner in a manner that conforms to the intent of all applicable laws and

regulations (primarily 40 CFR Part 761). The following procedures shall be followed by the General Contractor and Sub-contractors while present on the Owner's Project or other property: (1) Only authorized, trained personnel may inspect, repair, or maintain PCB transformers; and (2) No combustible materials may be stored within a PCB transformer room or within five meters of a PCB transformer. Such materials include, but are not limited to, paints, solvents, plastic, paper, and wood. The General Contractor shall not use rooms containing PCB transformers for storage rooms, staging areas, job site offices or break rooms. Violation of this policy may be grounds for dismissal of the offending General Contractor and/or Sub-contractor from the Project. All PCB transformers at the University of Kentucky are identified by a PCB label as defined in federal regulations. If the General Contractor should have a question as to the location of a PCB transformer, it should contact the Owner's Project Manager.

15.5 The General Contractor shall ensure that NO asbestos-containing materials (including but not limited to: drywall, joint compound, roof mastic and floor tile adhesive) will be install on any University project without prior written approval of the University's Environmental Health and Safety Division. Additionally, the General Contractor shall submit MSDS sheets and have prior approval before installing any materials that contains hazardous substances or could pose an environmental hazard. If any environmental hazardous materials are installed without written approval of the University, the General Contractor will be responsible for all material replacement cost, all removal and all other associated damages. Any materials removed shall be taken out in accordance with all applicable federal, state and local regulations.

## **ARTICLE 16 - INSPECTION OF WORK**

16.1 Inspections, tests, measurements or other acts of the Consultant are for the sole purpose of assisting the Consultant in determining if the Work, materials, rate of progress, and quantities comply with the Contract Documents. These acts or functions shall not relieve the General Contractor from performing the Work in full compliance with the Contract Documents, nor relieve the General Contractor from any of the responsibility for the Work assigned to it by the Contract Documents. No inspection by the Consultant shall constitute or imply acceptance. Approval of material is general and shall not constitute waiver of the Owner's right to demand full compliance with Contract Documents.

16.2 All Work completed and all materials incorporated for the Project are subject to inspection by the Owner, the Consultant or their representatives to determine conformance with the Contract Documents. The Owner, Consultant and their representatives shall at all times have access to the Work whenever it is in preparation or progress. The General Contractor shall provide, at no additional cost to the Owner, any facilities necessary for sufficient and safe access to the Work to complete any inspections required. The Consultant shall be given timely notification in order to arrange for the proper inspections to be performed on any Work outside of the normal working day or week. If the Consultant provides the General Contractor with a list of construction milestones that require inspection, the General Contractor shall provide the Consultant with at least five (5) Business Days written notice prior to the commencement of Work with respect to such milestone in order to permit the Consultant time to coordinate an inspection of the commencement of the applicable Work.

16.2.1 Normal Work hours are defined as a period between 7:00 a.m. and 5:00 p.m. Monday through Friday. The General Contractor shall notify the Owner's Project Manager at least one working day prior to performance of any Work for permission to do any Work during non-normal Work hours.

16.3 If this Contract, the Specifications, the Consultant's instructions, laws, ordinances, or any public authority require any Work to be specially inspected, tested or approved, the General Contractor shall give the Consultant timely notice of the readiness of the Work for inspection. The Consultant shall promptly make all required inspections. If any portion of the Work should be

covered contrary to the request of the Consultant, or to the requirements specifically expressed in the Contract Documents, the Work must be uncovered for inspection and observation and shall be uncovered and replaced at the General Contractor's expense.

16.4 If any other portion of the Work has been covered, which the Consultant has not specifically requested to observe prior to being covered, the Consultant, with the Owner's approval, may request to see such Work and it shall be uncovered by the General Contractor. If such Work is found to be in accordance with the Contract Documents, the cost of uncovering and replacement shall be charged to the Owner by appropriate Change Order. If such uncovered Work is not in accordance with the Contract Documents, the General Contractor shall pay all costs for uncovering and replacement of such Work.

## **ARTICLE 17 - SUPERINTENDENT - SUPERVISION**

17.1 The General Contractor shall completely and thoroughly direct and superintend the Work in accordance with the highest standard of care for the General Contractor's profession so as to ensure expeditious, workmanlike performance in accordance with requirements of the Contract Documents. Except as otherwise dictated by specific requirements of the Contract Documents, the General Contractor shall be solely responsible for and have control over all construction means, methods, techniques, sequences and procedures. The General Contractor shall be responsible for the acts and omissions of all Sub-contractors and persons directly or indirectly employed by the General Contractor in the completion of the Work. The General Contractor shall be responsible for coordinating and scheduling all portions of the Work unless the Contract Documents give other specific instructions. The General Contractor shall not be relieved of obligations to perform the Work in accordance with the Contract Documents either by the activities of the Consultant in the administration of the Contract, or by tests, inspections or approvals required or performed by persons other than the General Contractor.

17.2 The General Contractor shall have a competent superintendent on the Project site at all times during the process of the Work. The superintendent shall have authority to act on the General Contractor's behalf with regard to all aspects of performance of this Contract. The superintendent shall have such assistants with individual specialized competencies as may be necessary to fully understand and oversee all aspects of the Work. The General Contractor shall also provide administrative, supervisory and coordinating personnel required to fully perform the Work and for interfacing the Work with other work of the Project. The superintendent and all assistants shall be physically fit for their work and capable of going to all locations where Work is being performed. A communication given to the superintendent shall be binding on the General Contractor. Immediately after the award of Contract, the General Contractor shall submit to the Consultant a list of General Contractor's employees and consultants, including names, positions held, addresses, telephone numbers and emergency contact numbers.

17.3 The superintendent assigned shall not be changed except under the following circumstances: (1) Where the superintendent ceases to be employed by the General Contractor, in which case the General Contractor shall give timely written notice to the Owner of the impending change of the superintendent and a reasonable explanation for the change; or (2) Where the Owner or the Consultant have reasonable grounds for dissatisfaction with the performance of the superintendent and give written notice to the General Contractor of the grounds. In either case, the General Contractor shall obtain prior written approval from the Owner of the qualifications of the proposed replacement superintendent. Such prior approval will not be unreasonably withheld.

17.4 If the Owner or Consultant determines that the superintendent is not performing, or is incompetent to perform the required Work, the Owner may direct the General Contractor to remove the superintendent from the Project and replace the superintendent with an employee who has the necessary expertise and skills to satisfactorily perform the Work.

## **ARTICLE 18 - CHANGES IN THE WORK**

18.1 The Owner, at any time after execution of the Contract, may make changes within the general scope of the Contract or issue additional instructions, require additional Work, or direct the deletion of Work. The Owner's right to make changes shall not invalidate the Contract or relieve the General Contractor of any obligations under the Contract Documents. All such changes to the Work shall be authorized in writing by Change Order and shall be executed under the conditions of the Contract Document. Any adjustment of the Contract Amount or Time of Completion, as may be appropriate, shall be made only at the time of ordering such change. Change order proposals based on a reservation of rights, whether for additional compensation to be determined at a later date or for an extension of time to be determined at a later date, will not be considered for approval and shall be returned to the General Contractor without action.

18.2 The cost or credit resulting from a change in Work shall be determined in one or more of the following ways:

18.2.1 By unit prices named in the Contract or additional unit prices subsequently agreed upon;

18.2.2 By agreement on a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation;

18.2.3 By an amount agreed upon by the General Contractor and the Owner as a mutually acceptable fixed or percentage fee.

18.3 All lump sum proposals shall include a detailed cost breakdown satisfactory to the Consultant and to the Owner for each component of Work indicating both labor and material costs. In computing labor costs, the hourly labor rates shall not exceed a mutually agreeable combined hourly labor rate plus fringe benefits negotiated with the Owner based on a presentation of acceptable documentation by the GC. For the purposes of this Article, the term "fringe benefits" shall mean those funds transferred irrevocably to a third party for payment/distribution. In addition, there may be added by the General Contractor and/or Sub-contractor an amount agreed upon, but not to exceed a combined total of fifteen percent (15%) of the actual costs, for overhead and profit. This cost breakdown shall be submitted to the Consultant promptly and with a goal of seven (7) Calendar Days or less after receipt of the proposal request.

18.4 If none of the above methods are mutually agreed upon or if the General Contractor does not respond promptly, a change may be made by unilateral determination by the Owner and/or the Consultant of reasonable costs or savings attributable to the change, including a reasonable allowance for overhead and profit. If this method is utilized, the General Contractor shall promptly proceed with the Work involved in the change upon receipt of a written order signed by the Owner. In such case, the General Contractor shall keep and present an itemized accounting of labor, equipment, material and other costs, in such form as may be prescribed by the Consultant.

18.5 In determining the cost or credit to the Owner resulting from a change, the allowances for all overhead (including home office and field overhead) and profit combined, shall be negotiated and shall not exceed (15%) fifteen percent.

18.6 In all cases where Change Orders are determined by unit prices set forth in the Contract Documents, no amount is to be added for additional overhead and profit.

18.7 The General Contractor shall keep and present in such form as the Consultant may direct, a correct account of all items comprising the net cost of such Work, together with vouchers. The determination of the Consultant and/or the Owner shall be final upon all questions of the amount and cost of extra Work and changes in the Work, and it shall include in such cost, the cost to the General Contractor of all materials used, the cost of all labor (including social security, old age and unemployment insurance, fringe benefits to which the employee is entitled, and Workers Compensation insurance), and the fair rental of all machinery used upon the extra Work, for the period of such use, which was upon the Work before or which shall be otherwise required by or used upon the Work before or after the extra Work is done. If the extra Work requires the use of machinery not already on the Project site, or to be otherwise used upon the Work, then the cost of transportation of such machinery to and from the Project site shall be added to the fair rental value. Transportation costs shall not be allowable for distances exceeding one hundred (100) miles.

18.8 The General Contractor shall not include or allow to be included in the cost of change in the Work any cost or rental of small tools, or any portion of the time of the General Contractor or the superintendent, or any allowance for the use of capital, or for the cost of insurance or bond premium or any actual or anticipated profit, or job or office overhead. These items are considered as being covered under the added amount for general overhead addressed in Article 18.3

18.8.1 The Owner will not pay claims made for lost opportunities, claims made for lost production or production inefficiencies or claims made that are formula based.

18.9 Pending final determination of value, partial payments on account of changes in the Work may be made on recommendation of the Consultant. All Change Orders shall be in full payment and final settlement of all claims for direct, indirect and consequential costs, including all items covered and affected. Any such claim not presented by the General Contractor for inclusion in the Change Order shall be waived.

18.10 The Consultant may authorize minor changes in the Work which do not involve additional cost or extension of the Contract Time, and which are not inconsistent with the intent of the Contract Documents. Such changes shall be made by an ASI issued by the Consultant, and shall be binding on the Owner and the General Contractor. The General Contractor shall carry out such orders promptly. If the General Contractor should claim that an ASI involves additional cost or delay to the completion of the Work, the General Contractor shall give the Consultant written notice thereof within ten (10) Calendar Days after receipt of the written ASI. If this notification does not occur, the General Contractor shall be deemed to have waived any right to claim or adjustment to the contract sum or to the contract completion time.

18.10.1 If the General Contractor claims that any instructions by the Consultant involve additional cost or time extension, the General Contractor shall give the Consultant written notice thereof within ten (10) Calendar Days after the receipt of such instructions and before proceeding to execute the change in Work. The written notice shall state the date, circumstances, whether a time extension will be requested, and the source of the order that the General Contractor regards as a Change Order. Unless the General Contractor acts in accordance with this procedure, any oral order shall not be treated as a change and the General Contractor hereby waives any claim for an increase of the Contract amount or extension of the contract time.

18.11 Requests for extension of time related to changes in the Work shall be submitted in accordance with the requirements of Article 21 of these General Conditions

## **ARTICLE 19 - RULES AND MEASUREMENTS FOR EXCAVATION**

19.1 If applicable, the following Rules and Measurements shall apply to the use of Unit Prices for the excavation portion of the Work:

19.1.1 Except as provided in this Article 19 for arbitrary measurements, the quantity of excavation shall be its in-place volume before removal.

19.1.2 No allowance will be made for excavating additional material of any nature taken out for the convenience of the General Contractor beyond the quantity computed under these "Rules and Measurements."

19.1.3 The quantities of excavation shall be computed from instrument readings taken by the Consultant's representative in vertical cross sections located at such intervals that will assure accuracy.

19.1.4 "Trench Excavation" for pipes shall arbitrarily be assumed to be two feet (2') wider than the outside diameter of the pipe barrel and with sides vertical.

19.1.5 The quantities shall be computed from plan size, or if there are no drawings, from actual measurements of the Work in place.

19.1.6 Each unit price shall cover, among other things, engineering (surveying) costs and keeping excavating dry.

19.1.7 Earth excavation for structures will be measured between the vertical planes passing 18 inches beyond the outside of the footings and from the surface of the ground to the neat lines of the bottom of the structure.

19.1.8 Rock excavation for structures will be measured between the vertical planes passing 18 inches beyond the outside of the footings and from the surfaces of the rock to the neat lines of the bottoms of the structures or the actual elevation of the rock ledge.

19.1.9 Rock excavation for pipelines trenches, unless otherwise provided for in the Specifications, shall be measured as follows: An arbitrary width of 18 inches plus the nominal diameter of the pipe multiplied by the depth from the surface the rock to six (6) inches below the invert for pipe 24 inches in diameter or less and eight (8) inches below the invert for all pipe greater than 24 inches in diameter. No additional compensation will be allowed for excavation for bell holes, gates or other purposes. The measurement of rock excavation for manholes shall be in accordance with Section 19.1.8 above.

19.1.10 Unclassified excavation shall be measured in the same manner as earth excavation.

## **ARTICLE 20 - CONCEALED CONDITIONS**

20.1 The Contract Drawings show the approximate location of the existing and new utility lines. These lines have been identified and located as accurately as possible using available information. The General Contractor is responsible for verifying all actual locations. If utilities require relocation or rerouting that is not shown or indicated to be relocated or rerouted, the General Contractor shall contact and cooperate with the Consultant to make the required adjustments. Any request for change

in the Contract Amount by the General Contractor shall be made pursuant to Article 18 of the General Conditions.

20.2 If any charted or uncharted utility service is interrupted by activities of the General Contractor or the General Contractor's Sub-contractor(s) for any reason, the General Contractor shall work continuously to restore service to the satisfaction of the Owner.

20.2.1 If any charted utility service, or any uncharted utility service the existence of which could have been discovered by careful examination and investigation of the site of the Work by the General Contractor, is interrupted by activities of the General Contractor or the General Contractor's Sub-contractor(s) for any reason, the entire cost to restore service to the satisfaction of the Owner shall be paid by the General Contractor. Should the General Contractor fail to proceed with appropriate repairs in an expedient manner, the Owner reserves the right to have the work/repairs completed and the cost of such work/repairs deducted from the monies due or to become due to the General Contractor pursuant to Article 22 of the General Conditions.

20.3 The General Contractor shall promptly, but in no case more than ten (10) Calendar Days from the time of discovery, and before the conditions are disturbed, notify Consultant in writing of:

20.3.1 Subsurface or latent physical conditions or any condition encountered at the site which differ materially from those indicated in the Contract Documents and which were not known by General Contractor or could not have been discovered by careful examination and investigation of the site of the proposed Work;

20.3.2 Unknown and unexpected physical conditions at the site, of an unusual nature, differing materially from those ordinarily encountered in the locale or generally recognized as inherent in the Work provided for in this Contract or,

20.3.3 Concealed or unknown conditions in an existing structure which are at variance with the conditions indicated by the Contract Documents, which are of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in the Work provided for in this Contract, and which were not known by the General Contractor and could not have been discovered by careful examination and investigation of the site of the Work.

20.4 The Consultant shall promptly investigate the conditions discovered. If the Consultant finds that conditions, which are materially different from those ordinarily encountered and generally recognized as inherent in the Work provided for in this Contract, were not known by the General Contractor, and could not have been discovered by careful examination and investigation of the site of the Work, have caused or would cause a material increase or decrease in the General Contractor's cost of construction or the time required for performance of any part of the Work under this contract, the Consultant will recommend and the Owner will make an equitable adjustment in the Contract Amount and/or the time allotted for performance in the Contract Documents. Failure by the General Contractor to provide written notice to the Owner of such claims for additional compensation or time for performance within ten (10) Calendar Days of discovery of such conditions shall constitute a waiver by the General Contractor of the right to make such claims. The Owner will not pay claims made for lost opportunities, claims made for lost production or production inefficiencies or claims made that are formula based.

20.5 If the Consultant determines that changed conditions do not exist or are not materially different and no adjustment in the Contract Amount or time is warranted, the General Contractor shall continue performance of the Contract as directed by the Consultant. No claim by the General Contractor under this clause shall be allowed unless the required written notice is given and the

Consultant is given adequate opportunity to investigate the conditions encountered prior to disturbance. The failure of the General Contractor to give the Consultant proper notice of a differing site condition shall not affect the Owner's right to an equitable adjustment of the contract price or time if there is a decrease in the Contract Amount or time required to perform the Work.

**ARTICLE 21 - DELAYS AND EXTENSION OF TIME**

21.1 It is agreed that time is of essence for each and every portion of this Contract and where additional time is allowed for the completion of the Work or any part of the Work under this Contract, the new time limit fixed by such time extension shall be of the essence of this Contract. An extension of time shall not be cause for extra compensation under this Contract, except as set forth in Article 21.10 below.

21.2 The General Contractor will, subject to the provisions of Articles 21.7, 21.8 and 21.9 below, be granted an extension of time and/or relief from liquidated damages when the delay in completion of the Work is due to:

21.2.1 Any preference, priority, or allocation order duly issued by the government;

21.2.2 Unforeseeable causes beyond the control and without the fault or negligence of the General Contractor including, but not limited to, acts of God, or of the public enemy, acts of the Owner, acts of another contractor in the performance of a contract with the Owner, floods, epidemics, quarantine restrictions, strikes, and freight embargoes.

21.2.2.1 For such delays which stop all work on the Project for thirty (30) Calendar Days or more, the General Contractor shall be authorized at its discretion to remove its people from the site and return when the normal progress of the work may continue.

21.2.3 Regardless of the cause of a delay, the General Contractor shall expend all reasonable effort to mitigate the impact of any delay.

21.2.4 Requests for additional time due to delays in transportation or due to failures of suppliers shall not be considered for approval.

21.3 Requests for extensions of time and/or relief from liquidated damages, except for weather related claims, shall be made in writing not later than ten (10) Calendar Days after the beginning of the delay. Requests for extension of time or relief from liquidated damages shall be stated in numbers of whole Calendar Days.

21.4 Except as otherwise provided in the Contract Documents, extensions of the contractually required completion dates may be granted for unusually bad weather on the Project. Unusually bad weather as used herein means daily temperature or precipitation that exceeds the normal weather recorded and expected for the locality and/or the season or seasons of the year. For the purposes of this contract, it is mutually agreed that the following chart accurately defines the number of days in each month on which bad weather can reasonably be anticipated to impact weather dependent construction operations, and the General Contractor shall anticipate this normal seasonal weather in the development of the Project baseline schedule.

Mean	Jan.	Feb	Mar	Ap	May	Jun	Jul.	Aug	Se	Oct	Nov.	Dec.
Number of		.	.	r.		.		.	p.	.		
Days When												



Max Temp 32° or Below	9	6	1	0	0	0	0	0	0	0	1	5
Precip. Is 0.10 Inch or Greater	7	6	9	7	8	8	8	6	5	5	7	7

For the purpose of this Contract, “unusually bad weather” shall be interpreted as either 1) those days in a given month on which rainfall was 0.10 inch or more that exceed the number of days shown in the row for “Precip” or 2) those days in a given month on which maximum temperature was 32 degrees F or below that exceed the number of days shown in the row for “Max Temp”, whichever is greater.

21.4.1 Requests for extension of time due to unusually bad weather that could not reasonably have been anticipated at the time of execution of the Contract shall be made in writing not later than the tenth calendar day of the month following the month in which the delay occurred.

21.4.2 Requests for an extension of time due to unusually bad weather shall be considered for approval only if it is shown that a) the unusual weather event delayed work on a specific weather dependent activity or activities that had been planned to be underway on the date(s) on which the weather event occurred, as shown in the most recent update to the Project schedule that had been submitted to the Owner prior to the date of the event, and b) only if the delay to that activity or activities is shown to be the proximate cause of a corresponding delay to the contractually required completion dates for the Project shown in the most recent update to the Project schedule. The actual dates on which the delay(s) occurred must be stated and the specific activities that were directly impacted must be identified. In the event of concurrent delays, only those activities actually impacting contractually required completion dates will be considered in evaluating the merit of a delay request. Time extensions will not be considered if such adjustments do not exceed the total or remaining “float” associated with the impacted activities at the time of delay as shown in the most recent update to the Project schedule, nor for concurrent delays not caused by the Owner.

21.4.3 In anticipation of the possibility of delay due to unusually bad weather, the General Contractor shall identify those activities in the baseline schedules, and those activities subsequently added to updated schedules, that might reasonably be expected to be delayed by such weather.

21.4.4 Delays caused by unusually bad weather shall be incorporated in the Project schedule when the schedule is next updated by showing actual dates and/or percent complete for those activities that were impacted by the unusually bad weather as well as the effects of any effort to mitigate such delays. When claims are submitted for time extensions resulting from more than one occurrence of unusually bad weather during a month, the Project schedule shall be updated to reflect such separate events sequentially so that the impact of each subsequent occurrence is shown on an adjusted Project schedule that includes all prior claims for additional time.

21.5 In addition to the requirements of Article 21.7 and Article 21.8 below, any request for an extension of time for strikes or lockouts shall be supported by a written statement of facts concerning the strike including, but not limited to, the dates, the craft(s) affected, the reason for the strike, efforts to resolve the dispute, and efforts to minimize the impact of the strike on the Project.

21.6 Approval of time extensions for changes in the Work will depend upon the extent, if any, to which the changes cause delay in the completion of the various elements of construction. The

Change Order granting the time extension may provide that the Contract Time will be extended only for those specific elements so delayed and that other Work will not be altered.

21.7 The Contract Time will only be adjusted for causes specified above. Extensions of time will only be approved if the General Contractor provides justification supported by the Project schedule or other acceptable data that 1) such changes are, in fact, on the critical path and extend the contractually required completion dates, and 2) the General Contractor has expended all reasonable effort to minimize the impact of such changes on the construction schedule. No additional extension of time will be granted subsequently for claims having the basis in previously approved extensions of time.

21.8 In support of requests for an extension of time not caused by unusual inclement weather, and concurrently with the submittal of any such request, the General Contractor shall submit to the Consultant and the Owner a written impact analysis showing the influence of each such event on contractually required completion dates as shown in the updated Project schedule most recently submitted to the Owner prior to the event. The analysis shall include a partial network diagram showing a sequence of new or revised activities and/or durations that are proposed to be added to the existing schedule including related logic (a “fragnet”). This impact analysis and the fragnet shall include the new activities and/or activity revisions proposed to be added to the existing schedule and shall demonstrate the claimed impact on the critical path and the contractually required completion dates. The General Contractor will not be granted an extension of time and/or relief from liquidated damages when the delay to completion of the work is attributable to, within the control of, or due to the fault, negligence, acts, or omissions of the General Contractor and/or the General Contractor’s contractors, subcontractors, suppliers, or their respective employees and agents. Time extensions will not be considered in the event such adjustments do not exceed the total or remaining “float” associated with the impacted activities at the time of delay, nor for concurrent delays not caused by the Owner. In the event of concurrent delays, only that event actually impacting contractually required completion dates will be considered in adjusting the schedule and evaluating the merit of a delay claim. Requests for an extension of time which are not supported by this information shall not be considered for approval.

21.9 Approved extensions of time not caused by unusual inclement weather shall be incorporated in a revised schedule at the time of approval. No subsequent requests for time extension will be considered unless all previous approved time extensions have been incorporated in the Project schedule on which the requests are based.

21.10 Except as provided for in Article 21.10.1 through 21.10.3 below, no payment or compensation shall be made to the General Contractor and extensions of the time fixed for completion of the Contract shall be the General Contractor’s sole remedy for any and all delays, hindrances, obstructions or impacts in the orderly progress of the Work.

21.10.1 In addition to the provisions of Articles 18.3 above, and subject to the requirements of Article 21.8 and 21.8.1 above, if the Owner orders changes to the scope of Work for the Project that extend the then current contractually required completion dates of the Project, the General Contractor shall be entitled to reimbursement for job site, general conditions and staffing costs associated with such delay.

21.10.2 If delays, hindrances, impacts or obstructions of the General Contractor’s performance of the Contract are in whole or in part within the control of the Owner and, subject to the requirements of Article 21.8 and 21.8.1, extend contractually required completion dates of the Project, the General Contractor shall be entitled to reimbursement for job site, general conditions and staffing costs for that portion of the costs caused by acts or omissions of the Owner.

21.10.3 Such reimbursements shall not include consequential or similar damages, exemplary damages, damages based on unjust enrichment theory, formula based delay claims, or any element of home office overhead.

## **ARTICLE 22 - CORRECTION OF WORK BEFORE FINAL PAYMENT**

22.1 The General Contractor shall promptly remove from the site and replace any material and/or correct any Work found by the Consultant to be defective or that fails to conform to the requirements of the Contract, whether incorporated in the Work or not, and whether observed before or after Substantial or Final Completion. The General Contractor shall bear all costs of removing, replacing or correcting such Work or material including the cost of additional professional services necessary, and the cost of repairing or replacing all Work of separate contractors damaged by such removal or replacement.

22.2 The Consultant will notify the General Contractor and the Owner immediately upon its knowledge that additional services will be necessary. The Owner may consent to accept such nonconforming Work and materials with an appropriate adjustment in the Contract Amount. Otherwise, the General Contractor shall promptly replace and re-execute the Work in accordance with the Contract Documents and without expense to the Owner and shall bear the expense of making good all work of other contractors destroyed or damaged by such removal or replacement. If the General Contractor fails to commence and continue to correct non-conforming Work within a reasonable time as determined by the Consultant, the Owner may without limitation of other rights available to the Owner and without prejudice to other remedies, take any necessary action to make the necessary corrections. If the Owner makes required corrections for non conforming Work or materials, a Change Order will be issued reflecting an equitable deduction from the Contract Amount. This amount will be deducted from payments due to the General Contractor or, if no additional payments are due, General Contractor or the General Contractor's surety shall be responsible for payment of this amount.

## **ARTICLE 23 - CORRECTION OF WORK AFTER FINAL PAYMENT**

23.1 Neither the final certificate of payment nor any provisions in the Contract Documents shall relieve the General Contractor of responsibility for materials and equipment incorporated into the Work that fail to meet specification requirements, or for use of faulty materials or poor quality workmanship. If within one year after the date of Substantial Completion of the Work or designated portion thereof, any of the Work is found to be defective or not in accordance with the requirements of the Contract Documents, the General Contractor shall correct it promptly after receipt of written notice from the Owner to do so. The General Contractor shall correct any defects due to these conditions and pay for any damage to other Work resulting from their use. Nothing contained in this clause shall be construed to establish a period of limitation with respect to any obligation of the General Contractor under the Contract including, but not limited to, Warranties. The obligation of the General Contractor under this section shall be in addition to and not in limitation of any obligations imposed by special guarantees or warranty required by the Contract, given by the General Contractor, or otherwise recognized or prescribed by law.

23.2 In addition to being responsible for correcting the Work and removing any non conforming Work or materials from the job site, the General Contractor shall bear all other costs of bringing the affected Work into compliance with the Contract requirements. This includes costs of any required additional testing and inspection services, Consultant's services and any resulting damages to other property or to work of other contractors or of the Owner.

23.3 If the General Contractor fails to correct nonconforming Work within a reasonable time as determined by the Consultant, the Owner may take necessary actions to make the necessary corrections. If the Owner makes required corrections for nonconforming Work or materials after Final Payment to the General Contractor, the Owner shall be entitled to recover all amounts for such corrections, including costs and attorney's fees, from General Contractor or surety.

#### **ARTICLE 24 - TERMINATION OF CONTRACT FOR CONVENIENCE OF OWNER**

24.1 The Owner, by written notice to the General Contractor, may terminate this Contract in whole or in part when it is in the interest of the Owner, at the sole discretion of the Owner. In such case, the General Contractor shall be paid for all Work in place and a reasonable allowance for profit and overhead on Work done, provided that such payments shall not exceed the total Contract price as reduced by the value of the Work as yet not completed. The General Contractor shall not be entitled to profit and overhead on Work not performed.

#### **ARTICLE 25- OWNER'S RIGHT TO STOP WORK**

25.1 If the General Contractor fails to correct defective Work as required, or persistently fails to carry out the Work in accordance with the Contract Documents, the Owner by written notice may order the General Contractor to stop the Work or any portion of the Work, until the cause for the order has been eliminated to the satisfaction of the Owner. The Consultant may stop Work without written notice for 24 hours whenever in its professional opinion such action is necessary or advisable to insure conformity with the Contract Documents. The General Contractor shall not be entitled to an adjustment in the Contract Time or Amount under this clause in the event such stoppages are determined to be the fault of the General Contractor or its Sub-contractor(s). The right of the Owner or Consultant to stop Work shall not give rise to a duty on the part of the Owner or Consultant to exercise this right for the benefit of the General Contractor or others.

#### **ARTICLE 26 -TERMINATION OF CONTRACT FOR DEFAULT ACTION OF GENERAL CONTRACTOR**

26.1 In addition to its rights under Articles 24 and 25, the Owner may terminate the contract upon the occurrence of any one or more of the following events:

26.1.1 If the General Contractor refuses or fails to prosecute the Work (or any separable part thereof) with such diligence as will insure its completion within the agreed upon time; or if the General Contractor fails to complete the Work within such time;

26.1.2 If the General Contractor is adjudged a bankrupt or insolvent, or makes a general assignment for the benefit of creditors, or if the General Contractor or a third party files a petition to take advantage of any debtor's act or to reorganize under the bankruptcy or similar laws concerning the General Contractor, or if a trustee or receiver is appointed for the General Contractor or for any of the General Contractor's property on account of the General Contractor's insolvency, and the General Contractor or its successor in interest does not provide adequate assurance of future performance in accordance with the Contract within 10 days of receipt of a request for assurance from the Owner;

26.1.3 If the General Contractor repeatedly fails to supply sufficient qualified supervision of the work, or repeatedly fails to ensure that Sub-contractors supply adequate supervision, suitable materials or equipment, or adequate numbers of skilled workmen and supervision to the Work;

26.1.4 If the General Contractor repeatedly fails to make prompt payments to Sub-contractors or suppliers at any tier, or for labor, materials or equipment;

26.1.5 If the General Contractor disregards laws, ordinances, rules, codes, regulations, orders or similar requirements of any public entity having jurisdiction;

26.1.6 If the General Contractor disregards the authority of the Consultant or the Owner;

26.1.7 If the General Contractor performs Work which deviates from the Contract Documents, and neglects or refuses to correct rejected Work; or

26.1.8 If the General Contractor otherwise violates in any material way any provisions or requirements of the Contract Documents.

26.2 Once the Owner determines that sufficient cause exists to justify the action, the Owner may terminate the Contract without prejudice to any other right or remedy the Owner may have, after giving the General Contractor and its Surety three (3) Calendar Days notice by issuing a written Declaration of Default. The Owner shall have the sole discretion to permit the General Contractor to remedy the cause for the contemplated termination without waiving the Owner's right to terminate the contract.

26.3 In the event that the Contract is terminated, the Owner may demand that the General Contractor's Surety take over and complete the Work on the Contract. The Owner may require that in so doing, the General Contractor's Surety not utilize the General Contractor in performing the Work. Upon the failure or refusal of the General Contractor's Surety to take over and begin completion of the Work within twenty (20) Calendar Days after the demand, the Owner may take over the Work and prosecute it to completion as provided below.

26.3.1 In the event that the Contract is terminated and the General Contractor's Surety fails or refuses to complete the Work, the Owner may take over the Work and prosecute it to completion in accordance with the laws of the Commonwealth, by contract or otherwise, and may exclude the General Contractor from the site. The Owner may take possession of the Work and of all of the General Contractor's tools, appliances, construction equipment, machinery, materials, and plant which may be on the site of the Work, and use the same to the full extent they could be used by the General Contractor, without liability to the General Contractor. At the Owner's sole discretion, the Owner has the right to take assignment of any or all portions of the contract work in order to prosecute the completion of the Work. In exercising the Owner's right to prosecute the completion of the Work, the Owner may also take possession of all materials and equipment stored at the site or for which the Owner has paid the General Contractor but which are stored elsewhere, and finish the Work as the Owner deems expedient. In such case, the General Contractor shall not be entitled to receive any further payment until the Work is finished.

26.3.2 If the unpaid balance of the Contract Price exceeds the direct and indirect costs and expenses of completing the Work including compensation for additional professional and Consultant services, such excess shall be used to pay the General Contractor for the cost of the Work it performed and a reasonable allowance for overhead and profit. If such costs exceed the unpaid balance, the General Contractor or the General Contractor's Surety shall pay the difference to the Owner. In exercising the Owner's right to prosecute the completion of the Work, the Owner shall have the right to exercise its sole discretion as to the manner, methods, and reasonableness of the costs of completing the Work and the Owner shall not be required to obtain the lowest figure for Work performed in completing the Contract. In the event that the Owner takes bids for remedial Work or completion of the Project, the General Contractor shall not be eligible for the award of such Contract.

26.3.3 The General Contractor shall be liable for any damage to the Owner resulting from the termination or the General Contractor's refusal or failure to complete the Work, and for all costs necessary for repair and completion of the Project above the amount of the Contract. The General Contractor shall be liable for all attorney's fees, costs and expenses incurred by the Owner to enforce the provisions of the Contract.

26.3.4 If liquidated damages are provided in the Contract and the Owner terminates the Contract, the General Contractor shall be liable for such liquidated damages, as provided for in Article 29.2 and 29.3 below, until Substantial Completion and Final Completion of the Work are achieved.

26.3.5 In the event the Contract is terminated, the termination shall not affect any rights of the Owner against the General Contractor. The rights and remedies of the Owner under this Article are in addition to any other rights and remedies provided by law or under this Contract. Any retention or payment of monies to the General Contractor by the Owner will not release the General Contractor from liability.

26.3.6 In the event the Contract is terminated under this Article, and it is determined for any reason that the General Contractor was not in default under the provisions of this Article, the termination shall be deemed a Termination for Convenience of the Owner pursuant to Article 24 and the rights and obligations of the parties shall be determined in accordance with Article 24.

## **ARTICLE 27 - SUSPENSION OF WORK**

27.1 The Owner or the Consultant may, at any time and without cause, order the General Contractor in writing or cause the General Contractor to suspend, delay or interrupt all or any part of the Work for such period of time as the Owner may determine to be appropriate for its convenience. Adjustment may be made for any increase in the Contract time necessarily caused by such suspension or delay, in accordance with Article 21.

## **ARTICLE 28 - TIME OF COMPLETION**

28.1 The General Contractor shall begin the Work on the date of commencement as specified in the Work Order. All time limits stated in the Contract Documents are of the essence of the Contract. The end of the Contract Time shall be the date specified on the approved certificate of Substantial Completion. The time for completion set forth in the Contract is a binding part of the Contract upon which the Owner may rely in planning the use of the facilities to be constructed and for all other purposes.

28.2 Substantial Completion is defined in Article 1.1.17 of these General Conditions. Only incidental corrective Work under punch lists and final cleaning (if required) for Owner's full use shall remain for Final Completion. The ability to occupy or utilize shall include regulatory authority approval unless regulatory approval is delayed due to actions of the Owner or the Consultant. When the Owner accepts and occupies a portion of the Project, the operation, maintenance, utilities, and insurance of that portion of the Project becomes the responsibility of the Owner.

28.3 The date of Substantial Completion shall be that date certified by the Owner, in accordance with the following procedures, that the Work is sufficiently complete to occupy or utilize as defined above.

28.3.1 When the General Contractor considers the entire Work is substantially complete as defined in Article 1.1.17 of these General Conditions, and is ready for its intended use, the General Contractor shall notify the Consultant in writing and request an inspection. The declaration and request shall be

accompanied by a list prepared by the General Contractor of those items of Work still to be completed or corrected. The failure of the General Contractor or Consultant to include any item or items, which are not completed or which need correction, on such list shall not alter the responsibility of the General Contractor to complete all Work in accordance with the Contract Documents.

28.3.2 The Consultant shall, within a reasonable time after receipt of notification from the General Contractor of a declaration of Substantial Completion and request for inspection, make such inspection. Prior to the Substantial Completion Inspection and within sufficient time to allow the Consultant's review, the General Contractor shall submit all As-Built drawings, Notice of Termination, catalog data, complete operating and maintenance instructions, manufacturer specifications, certificates, warranties, written guarantees and related documents required by the contract. The Consultant shall review said documents for accuracy and compliance with the Contract Documents and incorporate them into complete operating instructions and deliver them to the Owner.

28.3.3 If the Consultant considers the Work substantially complete, the Consultant shall recommend that the Owner prepare a Certificate of Substantial Completion which shall establish the date of Substantial Completion and the responsibilities between the Owner and General Contractor for security, maintenance, heat, utilities and insurance, if not otherwise provided for in the Contract Documents, and a tentative list of items to be completed or corrected, and shall fix the time within which the General Contractor shall complete the items listed therein. This time shall not exceed thirty (30) Calendar Days unless otherwise provided for in the Work Order. The Certificate of Substantial Completion shall be submitted to the Consultant and General Contractor for their written acceptance of the responsibilities assigned to them in the certificate. The Project shall not be deemed substantially complete until the certificate is issued. If, after making the inspection, the Consultant does not consider the Work substantially complete, the Consultant will notify the Owner and the General Contractor in writing, giving the reasons therefore.

28.4 Operation and Maintenance Manual Deliverables. In anticipation and preparation of completion of the Work and the closing out of the Project, and to facilitate training of the Owner's personnel in the maintenance and operation of the new installations, the Contractor shall comply with the requirements of Article 8.7 of the Special Conditions. (For the purposes of this article, air test and balance reports may be submitted at a later date with the request for certification of substantial completion.) These manuals shall be submitted to the Consultant for approval, and subsequently forwarded to the Owner's Project Manager by or before the time construction is 75% complete, as reflected by the Contractor's most recently submitted Application for Payment.

28.4.1 The provisions of Article 30.11 notwithstanding, if the General Contractor meets the requirements of Article 28.4 above with respect to timely submittal of approvable Operation and Maintenance manuals and provided the project construction is 1) at least 75% complete and 2) is equal to or ahead of the approved progress schedule and 3) the Work completed is in compliance with the requirements of the contract documents, the Owner, at the sole discretion of the Director, Capital Projects Management Division may reduce the retainage to (5%) of the current Contract Amount.

28.4.2 In the event the General Contractor fails to submit acceptable O&M manuals prior to reaching 75% completion, it is agreed that the Owner at its sole discretion may deduct from the current and subsequent Applications for Payment an amount deemed by the Owner to be sufficient to encourage prompt compliance with this contractual requirement, until such time as acceptable O&M manuals are received.

28.5 Project Close Out. When the General Contractor considers that all Work required by the Contract is 100% complete, including correction of any remaining punch list work or deficiencies, the General Contractor shall notify the Consultant in writing and request a final inspection. The Consultant, upon receipt of written notice from the General Contractor that the Work is complete and

is ready for final inspection and acceptance, will promptly make such inspection and when the Consultant finds the Work completed and acceptable under the Contract Documents and the Contract fully performed, the Consultant will so notify the General Contractor in writing to submit, and will certify to the Owner a final Certificate for Payment submitted in accordance with Articles 30.9 and 30.9.1 of these General Conditions. If the General Contractor does not complete the punch items within the time designated, the Owner retains the right to have these items corrected at the expense of the General Contractor including all architectural, engineering and inspection costs and expenses incurred by the Consultant and the Owner, and to deduct such costs and expenses from the funds being held in retainage. The Owner shall not be required to release the retainage until such items have been completed.

## **ARTICLE 29 - LIQUIDATED DAMAGES**

29.1 The Owner and the General Contractor recognize and agree that time is of the essence of this Contract and that the Owner will suffer financial loss if the Work is not completed within the time specified in the Contract plus any extensions that may be allowed. The parties further recognize the delays, expense and difficulties involved in proving the actual loss suffered by the Owner should the Work not be completed on time. The Owner and the General Contractor agree on the amounts stated as liquidated damages in the Agreement. The Owner and General Contractor agree that the amount stated as liquidated damages are not intended to be penalties.

29.2 Should the General Contractor fail to satisfactorily complete the Work under Contract on or before the date stipulated for Substantial Completion, as adjusted by approved Change Orders, if any, the General Contractor will be required to pay liquidated damages to the Owner for each consecutive Calendar Day that the Owner is deprived of full use of the area beyond the date specified unless otherwise stipulated elsewhere by Owner. After the date for Substantial Completion has been certified by the Owner, the General Contractor shall cease to owe liquidated damages until the date established for Final Completion.

29.3 If Final Completion is not achieved by the date established for Final Completion, as adjusted by approved Change Orders, if any, liquidated damages in the amount stipulated in the Agreement will become due and collectable. The Contract will be considered complete and Final Completion shall be deemed to have occurred when all Work has been completed in compliance with the Contract Documents and the Certificate of Final Completion has been issued by the Owner. No deduction or payment of liquidated damages will, in any degree, release the General Contractor from further obligations and liabilities to complete the entire Contract. Permitting the General Contractor to continue and finish the Work, or any part of it, after expiration of the Contract Time, shall in no way constitute a waiver on the part of the Owner of any liquidated damages due under the Contract.

## **ARTICLE 30 - PAYMENT TO THE GENERAL CONTRACTOR**

30.1 Payments on account of this Contract shall be made monthly as Work progresses. The General Contractor shall submit to the Consultant, in the manner and form prescribed, an application for each payment, and, if required, receipts or other vouchers showing payments made for materials and labor, including payments to Sub-contractors. All payments shall be subject to any withholding or retainage provisions of this contract. All pay request documents, except the final payment, shall be submitted in whole dollar amounts. All payment applications from the General Contractor shall include line items for overhead, profit and general condition costs.

30.2 The Consultant shall, within ten (10) Business Days after receipt of each application for payment, certify approval of payment in writing to the Owner and present the application to the Owner, or return the application to the General Contractor indicating in writing its reasons for



refusing to approve payment. The Owner, provided no exception is taken to the application for payment submitted by the Consultant, will issue payment on or within thirty (30) Business Days from the date received from the Consultant. A reasonable delay on the part of the Owner in making payment to the General Contractor for any given payment shall not be grounds for breach of Contract. The Consultant may refuse to approve the whole or any part of any payment if it would be incorrect to make such presentation to the Owner.

30.3 If payment is requested on the basis of materials and equipment not incorporated in the Work, but delivered and suitably stored at an off jobsite location agreed to in writing by the Owner that meets the manufacturer's requirements for the stored material and not-comingled with other material, the General Contractor shall furnish the following:

30.3.1 A list of the materials consigned to the Project (which shall be clearly identified), giving the place of storage, together with copies of invoices.

30.3.2 Certification that all items have been tagged for delivery to the Project and that they will not be used for any other purpose.

30.3.3 A letter from the Surety indicating that the Surety agrees to the arrangements and that payment to the General Contractor shall not relieve either the General Contractor or its Surety of their responsibility to complete the Work.

30.3.4 Evidence of adequate insurance listing the Owner as an additional insured covering the material in storage.

30.3.5 Evidence that representatives of the Consultant have visited the General Contractor's place of storage and checked all items listed on the General Contractor's certificate. They shall certify, insofar as possible, that the items are in agreement with the Specifications and approve their incorporation into the Project.

30.4 The Owner will pay 80% of the invoiced value less retainage for materials stored off site providing the above conditions are met.

30.5 The General Contractor's signature on each subsequent application for payment shall certify that all previous progress payments received on account of the Work have been applied to discharge in full all of the General Contractor's obligations reflected in prior applications for payment.

30.6 Each payment made to the General Contractor shall be on account of the total amount payable to the General Contractor and the General Contractor warrants and guarantees that the title to all materials, equipment and Work covered by the paid partial payment shall become the sole property of Owner free and clear of all encumbrances. Nothing in this Article shall be construed as relieving General Contractor from the sole responsibility for care and protection of materials, equipment and Work upon which payments have been made or restoration of any damaged Work or as a waiver of the right of Owner to require fulfillment of all terms of the Contract Documents.

30.7 Prior to submitting the first application for payment, the General Contractor shall submit to the Consultant and the Owner for approval a detailed breakdown of the Contract Amount pursuant to CSI specification divisions, divided so as to facilitate payment and correlated to the schedule required by General Conditions Article 32 of the Contract Documents. The total value of all activities shall add up to the Contract Amount. When approved by the Consultant and the Owner, this schedule shall be used as a basis for General Contractor's applications for payment and may be used by the Owner to

determine costs or credits resulting from changes in the Work. Failure to obtain the approval of the Schedules of Values shall be a basis for withholding payment to the General Contractor.

30.8 Retainage – The Owner will retain ten percent (10%) of the General Contractor’s progress payments until fifty one percent (51%) of the construction project has been completed. Thereafter, if the Work is fully in compliance with the requirements of the Contract and except as provided for in Article 28.4.1 above, the Owner shall retain five percent (5%) of the total contract amount until Substantial Completion and acceptance of all Work covered by this Contract, as collateral security to insure successful completion of the Work. For the purposes of this Article, the term “in full compliance” shall mean 1) that the progress of the Work is equal to or ahead of that predicted by the Project Baseline schedule and 2) the Work completed is in compliance with the requirements of the contract documents. Subsequent to the issuance of the Substantial Completion Certificate and depending upon the cost involved for the completion and/or correction of punch list items, the Consultant may recommend to the Owner an adjustment to the amount being held as retainage and, if approved by Owner, the amount of retainage may then be reduced and a sufficient sum retained by Owner to assure completion of the remaining unfinished Work. Retainage reduction as provided for in this Article 30.8 is contingent upon the General Contractor and/or Sub-contractors being on or ahead of the approved progress schedule and on verification by the Consultant that the Work completed is in compliance with the requirements of the contract documents

30.8.1 In addition to the retainage set forth above, the Owner may withhold from any monthly progress payments or nullify any progress payments in whole or in part as necessary to protect the Owner from loss on account of:

30.8.1.1 Defective Work which has not been remedied or completed Work which has been damaged requiring correction or replacement, or

30.8.1.2 Action required by the Owner to correct Defective Work or complete Work which the General Contractor has failed or refused to correct or complete, or

30.8.1.3 Failure of the General Contractor to perform any of its obligations under the Contract, or

30.8.1.4 Failure of the General Contractor to make payment properly to Sub-contractors; suppliers of material, services or labor; or to reimburse the University for utilities or other services as provided for in the Contract;

30.8.1.5 Amounts to be withheld as liquidated damages for failure to complete the Project in the allotted Contract time.

30.8.2 When the Owner is satisfied that the General Contractor has remedied any such deficiency, payments shall be made of the amount being withheld on the next scheduled application for payment.

30.9 Final Payment – When all Work is completed and acceptable and the Contract is fully performed, the General Contractor will be directed to submit a final payment application for certification and the entire balance shall be due and payable upon a certification of completion by the Consultant that the Work is in accordance with the Contract Documents.

30.9.1 Upon issuance of the Certificate of Final Completion by the Owner and submittal by the General Contractor of all required documents and releases, all retained amounts shall be paid to the General Contractor as part of the Final Payment. By accepting such payment, the General Contractor certifies that all amounts due or that may become due to any Sub-contractor, any Consultant of the General Contractor, or any vendors or material suppliers, have been paid or will be paid from the

proceeds of the final payment; and that, further, there are not liens, claims or disputes involving the Owner or the Consultant that are outstanding or unresolved.

30.10 The General Contractor shall promptly pay each Sub-contractor and material supplier upon receipt of payment from the Owner the amount to which said Sub-contractor and supplier is entitled, reflecting the percentage actually retained from payments to the General Contractor on account of such Sub-contractor's work. The General Contractor shall, by an appropriate Agreement with each Sub-contractor and material supplier, require each Sub-contractor and supplier to make payments to their sub-contractors, vendors and suppliers in similar manner.

30.10.1 The Consultant may, on request, furnish to any Sub-contractor or material supplier information regarding the percentages of completion applied for by the General Contractor and the action thereon by the Consultant.

30.10.2 Neither the Owner nor the Consultant shall have any obligation to make payment to any Sub-contractor or material supplier except as may otherwise be required by law.

## **ARTICLE 31 - AUDITS**

31.1 The General Contractor's Trade Contractors', sub-contractors' and/or vendor's "records" shall upon reasonable notice be open to inspection and subject to audit and/or reproduction during normal business working hours as may be deemed necessary by the Owner at its sole discretion. Such audits may be performed by an Owner's representative or an outside representative engaged by the Owner. The Owner or its designee may conduct such audits or inspections throughout the term of this contract and for a period of three years after final payment, or longer if required by law. Owner's representative may (without limitation) conduct verifications such as counting employees at the Construction Site, witnessing the distribution of payroll, verifying information and amounts through interviews and written confirmations with General Contractor's employees, field and agency labor, Trade Contractors and vendors.

31.2 "Records" as referred to in this Contract shall include any and all information, materials and data of every kind and character, including without limitation, records, books, papers, documents, subscriptions, superintendents' reports, drawings, receipts, vouchers and memoranda, and any and all other agreements, sources of information and matters that may in the Owner's judgment have any bearing on or pertain to any matters, rights, duties or obligations under or covered by any Contract Document. Such records shall include hard copy, as well as computer readable data if it can be made available, written policies and procedures; time sheets; payroll registers; cancelled payroll checks; subcontract files (including proposals of successful and unsuccessful bidders, bid recaps, etc.); original estimates; estimating work sheets; correspondence; change order files (including documentation covering negotiated settlements); back charge logs and supporting documentation; invoices and related payment documentation; general ledger; records detailing cash and trade discounts earned; insurance rebates and dividends; and any other General Contractor or contractor records which may have a bearing on matters of interest to the Owner in connection with the General Contractor's dealings with the Owner (all foregoing hereinafter referred to as the "records") to the extent necessary to adequately permit evaluation and verification of any or all of the following:

- Compliance with Contract requirements for deliverables;
- Compliance with approved plans and specifications;
- Compliance with Owner's business ethics expectations;
- Compliance with Contract provisions regarding the pricing of change orders;
- Accuracy of General Contractor representations regarding pricing of invoices; and
- Accuracy of General Contractor representations related to claims submitted by the General Contractor or its payees.

31.3 The General Contractor shall require all payees (examples of payees include Trade Contractors, Sub-contractors, vendors, and/or material suppliers) to comply with the provisions of this Article by including the requirements hereof in a written contract agreement between the General Contractor and payees. Such requirements to include flow-down right of audit provisions in contracts with payees will also apply to Subcontractors and Sub-subcontractors, material suppliers, etc. The General Contractor will cooperate fully and will cause all related parties and all of the General Contractor's Trade Contractors and/or subcontractors (including those entering into lump sum subcontracts) to cooperate fully in furnishing or in making available to Owner from time to time whenever requested, in an expeditious manner, any and all such information, materials and data.

31.4 Owner's authorized representative or designee shall have reasonable access to the General Contractor's facilities, shall be allowed to interview all current or former employees to discuss matters pertinent to the performance of this contract and shall provide adequate and appropriate work space in order to conduct audits in compliance with this Article. The General Contractor and its payees agree bear their costs and expenses relating to any inspections and audits.

31.5 If an audit inspection or examination in accordance with this Article discovers any fraud or misrepresentation, or discloses overpricing or overcharges (of any nature) by the General Contractor to the Owner, in addition to making adjustments for the overcharges, the reasonable actual cost of the Owner's audit shall be reimbursed to the Owner by the General Contractor. Any adjustments and/or payments that must be made as a result of any such audit or inspection of the General Contractor's invoices and/or records shall be made within Ninety (90) Calendar Days from presentation of the Owner's findings to the General Contractor.

31.6 The provisions of Articles 31.1, 31.2 and 31.5 notwithstanding, the Owner shall have the right to conduct inspections and audits of any matter relating to the Contract Documents or the Work, which shall be for the Owner's sole benefit and shall not relieve the General Contractor, its sureties, contractors, subcontractors suppliers and their respective employees and agents of any obligations under the Contract Documents.

31.7 Any audits or inspections under Article 31 shall not constitute a waiver of any right the Owner has to accounting or discovery of records in the possession, custody or control of the General Contractor, its sureties, contractors, subcontractors, vendors and their respective employees and agents

## **ARTICLE 32- PROGRESS & SCHEDULING**

32.1 The schedules submitted for this Project shall be prepared using Primavera P6 scheduling software. If approved by the University, and at the sole discretion of the University, schedules submitted in other versions of Primavera scheduling software (Primavera Contractor saved in .xer format, Primavera SureTrak or Primavera P3) may be converted to Primavera P6 format by the University for review purposes. However, the University will not be responsible for any inaccuracies that may result from such conversions.

3.2 The schedules submitted for this Project shall coordinate Work in accordance with all schedules included in the Owner's approved Program. Construction work shall be scheduled and executed such that operations of the University are given first priority. This applies particularly to outages and restriction of access.

32.2.1 The schedules submitted for this Project shall not exceed time limits established for the Project. Schedules which reflect a duration less than the Contract Time are for the convenience of the General Contractor and shall not be the basis of any claim for delay or extension of time.

32.2.2 Schedules shall be revised at appropriate intervals as required by the condition of the Work and the Project, shall be related to the entire Project to the extent required by the Contract Documents, and shall provide for expeditious and practicable execution of the Work.

32.2.3 The General Contractor shall also submit a payment schedule indicating the percentage of the Contract Amount and the amount of the anticipated monthly payments that will be requested as the Project proceeds.

32.2.4 The Owner may withhold approval of all or a portion of progress payments until the progress payment schedule and construction schedule have been submitted by the General Contractor.

32.3 The General Contractor shall prepare and keep current, for the Consultant's approval, a separate schedule of submittals coordinated with the General Contractor's CPM construction schedule that provides reasonable time for the Consultant to review the submittals.

32.4 The General Contractor shall cause the work to be performed pursuant to the most recent schedules.

### **ARTICLE 33 - USE OF COMPLETED PORTIONS**

33.1 Upon mutual Agreement between the Owner, General Contractor, and Consultant, the Owner may use a completed portion of the Project after an inspection is made. Such possession and use shall not be deemed as acceptance of any Work not completed in accordance with the Contract Documents, nor shall such possession and use be considered to alter warranty obligations or cause any warranty period to commence prior to Substantial Completion.

### **ARTICLE 34 - INDEMNIFICATION**

34.1 To the fullest extent permitted by law, the General Contractor shall indemnify and hold harmless the Owner, its consultants, and their respective employees and agents from and against all claims, damages, losses and expenses, including attorney's fees, provided that any such claim, loss, damage or expense: (a) is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself) including the loss of use resulting therefrom, and (b) is caused in whole or in part by any negligent act or omission of the General Contractor, any Sub-contractor or material supplier, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable. This basic obligation to indemnify shall not be construed to nullify or reduce other indemnification rights which the Owner, its consultants, and their respective employees and agents would otherwise have.

34.2 The General Contractor shall also indemnify and hold harmless the Owner, its consultants, and their respective employees and agents from any claims relating to the Project brought against the Owner, its consultants, and their respective employees and agents by any Sub-contractor unless such claims are due to the gross negligence or misconduct of the Owner or Consultant.

34.3 In any and all claims against the Owner its consultants, and their respective employees and agents, by any employee of the General Contractor, any Sub-contractor, any one directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the indemnification obligation under this Article shall not be limited in any way by any limitation on the amount or type

of damages, compensation or benefits payable by or for the General Contractor or any Sub-contractor under Worker's Compensation acts, disability benefit acts or other employee benefit acts.

34.4 The obligations of the General Contractor under this Article shall not extend to the liability of the Consultant, his agents or employees, arising out of (1) the preparation or approval of maps, drawings, opinions, reports, surveys, Change Orders, designs or specifications, or (2) the giving of or the failure to give directions or instructions by the Consultant, his agents or employees, provided such giving or failure to give is the primary cause of injury or damage.

## **ARTICLE 35 - INSURANCE**

35.1 The General Contractor shall furnish the Owner the Certificates of Insurance or other acceptable evidence that insurance is effective, and guarantee the maintenance of such coverage during the term of the Contract. Each policy of insurance, except Workers Compensation, shall name the University of Kentucky and the directors, officers, trustees and employees of the University as additional insured on a primary and non-contributory basis as their interest appears. Waiver of subrogation in favor of the University of Kentucky shall apply to all policies. Any endorsements required to validate such waiver of subrogation shall be obtained by the General Contractor at the General Contractor's expense.

35.2 The General Contractor shall not commence, nor allow any Sub-contractor to commence Work under this Contract, until the Owner has reviewed the certificates and approved coverages and limits as satisfying the requirements of the bidding process.

35.3 Workers' Compensation and Employers' Liability Insurance. The General Contractor shall acquire and maintain Workers' Compensation insurance with Kentucky's statutory limits and Employers' Liability insurance as defined in the Special Conditions for all employees who will be working at the Project site. In the event any Work is sublet, the General Contractor shall require any Sub-contractor to provide proof of this insurance for the Sub-contractors' employees, unless such employees are covered by insurance provided by the General Contractor.

35.4. The General Contractor shall either require each Sub-contractor to procure and maintain insurance of the type and limits stated during the terms of the Contract, or insure the activities of such Sub-contractors under a blanket form as described below:

35.4.1 Commercial General Liability Insurance. The General Contractor shall acquire and maintain a Broad Form Comprehensive General Liability (CGL) Insurance Policy including premises - operations, products/completed operations, blanket contractual, broad form property damage, real property fire legal liability and personal injury liability coverage. The Insurance Policy must be on an "occurrence" form only, unless approved by the Owner. Contractual liability must be endorsed to include defense costs. Products and completed operations insurance must be carried for two years following completion of the Work. Policies which contain Absolute Pollution Exclusion endorsements are not acceptable. Coverage must include pollution from "hostile fires". Where required by the risks involved, Explosion, Collapse and Underground (XCU) coverages shall be added by endorsement. If the work involved requires the use of helicopters, a separate aviation liability policy as defined in the Special Conditions will be required. If cranes and rigging are involved, a separate inland marine policy with liability limits as defined in the Special Conditions will be required.

35.4.1.1 The limits of liability shall not be less than defined in the Special Conditions.

35.4.2 Comprehensive Automobile Liability Insurance. The General Contractor shall show proof and guarantee the maintenance of insurance to cover all owned, hired, leased or non-owned vehicles used on the Project. Coverage shall be for all vehicles including off the road tractors, cranes and rigging equipment and include pollution liability from vehicle upset or overturn. Policy limits shall not be less than defined in the Special Conditions.

35.4.3 Excess or Umbrella Liability Insurance. The General Contractor shall acquire and maintain a policy of excess liability insurance in an umbrella form for excess coverages over the required primary policies of broad form commercial general liability insurance, business automobile liability insurance and employers' liability insurance. This policy shall have a minimum as defined in the Special Conditions for each occurrence in excess of the applicable limits in the primary policies. The excess liability policy shall not contain an absolute pollution exclusion and shall include coverages for pollution that may occur due to hostile fires and vehicle upset and overturn. The limits shall be increased as appropriate to cover any anticipated special exposures.

35.5 Builders Risk Insurance. The General Contractor shall purchase and maintain an "all risk" Builder's Risk Insurance policy upon the Work at the site to the full insurable value thereof. Such insurance shall include interests of the Owner, General Contractor, and all Sub-contractors and of their subcontractors. It shall insure against perils of fire, extended coverage, vandalism and malicious mischief. General Contractor's work performed, and materials to be incorporated into the project and stored on the jobsite, will be covered. Builder's Risk does not include temporary buildings, or General Contractor or General Contractor's tools, equipment, or trailers and contents.

35.6 Insurance Agent and Company Insurance as required in the bidding process of the Project shall be written according to applicable state law in Kentucky. The policies shall be written by an insurer duly authorized to do business in Kentucky in compliance with KRS: 304.1-100 and -.110.

## **ARTICLE 36 - PERFORMANCE AND PAYMENT BONDS**

36.1 The General Contractor shall furnish a Performance Bond in the form provided in the Contract Documents in the full amount of the Contract Amount as security for the faithful performance of the Contract. The General Contractor shall also furnish a Payment Bond in the form provided in the Contract Documents in the full amount of the Contract Amount for the protection of all persons performing labor or furnishing materials, equipment or supplies for the General Contractor or its Sub-contractors for the performance of the Work provided for in the Contract, including security for payment of all unemployment contributions which become due and payable under Kentucky Unemployment Insurance Law.

36.2 Each bond furnished by the General Contractor shall incorporate by reference the terms of the Contract as fully as though they were set forth verbatim in such bonds. In the event the Contract Amount is adjusted by Change Order, the penal sum of both the performance bond and the payment bond shall be deemed increased by like amounts.

36.3 The performance and payment bonds shall be executed by a surety company authorized to do business in the Commonwealth of Kentucky, and the contract instrument of bonds must be countersigned by a duly appointed and licensed resident agent.

## **ARTICLE 37 - DAMAGED FACILITIES**

37.1 The General Contractor shall repair or replace, at no expense to the Owner, any damaged section of existing buildings, paving, landscaping, streets, drives, utilities, watersheds, etc. caused by Work performed under the Contract or incidental thereto, whether by the General Contractor's own

forces, Sub-contractors or by material suppliers. Such repair or replacement shall be performed by craftsmen skilled and experienced in the trade or craft for the original Work.

37.2 Water damage to the interior of any building caused by Work performed under the Contract or incidental thereto, whether by the General Contractor's own forces, Sub-contractors, or by material suppliers, and whether occurring in a new or existing building, shall be repaired by the General Contractor at the General Contractor's expense, and any materials damaged inside the building, including personal property, shall be repaired or replaced at the full replacement cost by the General Contractor at the General Contractor's expense.

37.3 For existing buildings, the General Contractor, along with the Owner's Representative and Consultant, will tour the Project site to evaluate existing conditions and determine any existing damage before any Work on this Contract is done.

37.4 Should the General Contractor fail to proceed with appropriate repairs in an expedient manner, the Owner reserves the right to have the Work/repairs completed and deduct the cost of such Work/repairs from amounts due or to become due to the General Contractor. If the Owner deems it not expedient to repair the damaged Work, or if repairs are not done in accordance with the Contract, an equitable deduction from the Contract price shall be made.

#### **ARTICLE 38- CLAIMS & DISPUTE RESOLUTION**

38.1 All General Contractor's claims and disputes shall be referred to the Consultant for review and recommendation. All claims shall be made in writing to the Consultant and Owner, not more than ten (10) days from the occurrence of the event which gives rise to the claim or dispute, or not more than ten (10) days from the date that the General Contractor knew or should have known of the claim or dispute. Unless the claim is made in accordance with these requirements, it shall be waived. Any claim not submitted before Final Payment shall be waived. The Consultant shall render a written decision within fifteen (15) days following receipt of a written demand for the resolution of a claim or dispute.

38.1.1 The provisions of Article 43.2 notwithstanding, claims and disputes between the General Contractor and any Sub-contractor or supplier shall not be referred to the Consultant except to request interpretation and/or clarification of the intent of the plans or specifications. Such claims and disputes between the General Contractor and any Sub-contractor shall be resolved between those parties as required by Article 43.4 of these General Conditions.

38.2 The Consultant's decision shall be final and binding on the General Contractor unless the General Contractor submits to the Consultant and the Project Manager a written notice of appeal within fifteen (15) Calendar Days of the Consultant's decision. The General Contractor must present within fifteen (15) Calendar Days of the notice to appeal a narrative claim in writing with complete supporting documentation. After receiving the written claim, the Project Manager will review the materials relating to the claim and may meet with the Consultant and/or the General Contractor to discuss the merits of the claim. The Project Manager will render a decision within thirty (30) Calendar Days after receiving the written claim and supporting documentation. The decision of the Project Manager shall be final and binding pending further appeal as provided for in Article 39. If the Consultant or the Project Manager do not issue a written decision within thirty (30) calendar days after receiving the claim and supporting documentation, or within a longer period as may be established by the parties to the Contract in writing, then the General Contractor may proceed as if an adverse decision had been received.



38.3 If the Project Manager does not agree with the Consultant's decision on a claim by the General Contractor, the Project Manager shall notify the General Contractor and the Consultant and direct the General Contractor to perform the Work about which the claim was made and the General Contractor shall proceed with such Work in accordance with the Project Manager's instruction. If the General Contractor disagrees with a decision of the Project Manager concerning a General Contractor's claim, the General Contractor shall proceed with the Work as indicated by the Project Manager's decision.

38.4 The General Contractor shall continue to diligently pursue Work under the Contract pending resolution of any dispute, and the Owner shall continue to pay for undisputed work in place.

#### **ARTICLE 39 - CLAIMS FOR DAMAGE**

39.1 Should either party to the Contract suffer damage because of wrongful act or neglect of the other party, or of anyone employed by them, or others for whose act they are legally liable, or other controversy arising under the Contract, such claim or controversy shall be made in writing to the other party within thirty (30) days after the first occurrence of the event. Prior to the institution of any action in court, the claim or controversy (together with supporting data) shall be presented in writing to the Director of the Capital Project Management Division at the University of Kentucky ("Director") or his designee for the University of Kentucky. The Director, or designee, is authorized, subject to any limitations or conditions imposed by regulations, to settle, comprise, pay, or otherwise adjust the claim or controversy with the General Contractor. The Director, or designee, shall promptly issue a decision in writing. A copy of the decision shall be mailed or otherwise furnished to the General Contractor. The decision rendered shall be final and conclusive unless the General Contractor files suit pursuant to KRS 45A.245. If the Director, or designee, does not issue a written decision within one hundred and twenty (120) days after written request for a final decision, or within a longer period as may be established by the parties to the Contract in writing, then the General Contractor may proceed as if an adverse decision had been received.

39.2 Any legal action on the Contract shall be brought in the Franklin Circuit Court and shall be tried by the Court sitting without a jury. All defenses in law or equity, except the defense of government immunity, shall be preserved to the Owner. The Owner shall recover from the General Contractor all attorney's fees, costs and expenses incurred to the extent the Owner prevails in defending or prosecuting each claim in litigation of disputes under the Contract. The Owner is the prevailing party under this provision and is entitled to recover attorneys' fees, costs and expenses on a claim-by-claim basis to the extent the Owner successfully defeats or prosecutes each claim. A recovery of a net judgment by the General Contractor shall not be determinative of the Owner's right to recover attorneys' fees, expenses and costs. Rather, such a determination shall be made based on the extent that the Owner successfully defends or prosecutes each distinct claim in litigation under the Contract, even if the Owner does not prevail on every claim. The General Contractor shall be liable to the Owner for all attorney's fees, costs and expenses incurred by the Owner to enforce the provisions of the Contract.

#### **ARTICLE 40 - LIENS**

40.1 The filing and perfection of liens for labor, materials, supplies, and rental equipment supplied on the Work are governed by KRS 376.195 et seq.

40.2 Statements of lien shall be filed with the Fayette County Clerk and any action to enforce the same must be instituted in the Fayette Circuit Court, pursuant to KRS 376.250 (2).

40.3 The lien shall attach only to any unpaid balance due the General Contractor for the improvement from the time a copy of statement of lien, attested by the Fayette County Clerk, is delivered to the Owner, pursuant to the provisions of KRS 376.240.

#### **ARTICLE 41 - ASSIGNMENT**

41.1 Neither party to the Contract shall assign the Contract, or any portion thereof without the prior written consent of the other, which consent may be granted or withheld in the granting party's sole and absolute discretion. The General Contractor shall not assign any amount or part of the Contract or any of the funds to be received under the Contract unless the General Contractor has the prior written approval of the Owner (which approval may be granted or withheld in the Owner's sole and absolute discretion) and the Surety on the General Contractor's bond has given written consent to any such assignment.

#### **ARTICLE 42 - SEPARATE CONTRACTS**

42.1 The Owner reserves the right to enter into other Contracts in connection with the Project or to perform any work with the Owner's forces in the normal sequence of the work as depicted in the then current construction schedule. Except for work performed by University personnel, such contracts shall be assignable to the General Contractor and shall contain the same terms and conditions as the contracts between the General Contractor and the Sub-contractors. The General Contractor will be entitled to a maximum of 7% total fee on the value of such assigned contracts. The General Contractor shall afford other contractors reasonable opportunity for the introduction and storage of their materials and the execution of their work and shall properly connect and coordinate its Work with theirs in such manner as the Consultant may direct.

42.2 Should the General Contractor cause damage to any separate contractor on the Work, and the separate contractor sues the Owner on account of any damage alleged to have been so sustained, the General Contractor shall be responsible for all costs, attorney's fees and expenses incurred by the Owner for defending such proceedings unless the Owner prevails on behalf of the General Contractor in which case fees and expenses will be the responsibility of the separate contractor and if any judgment against the Owner arises therefrom, the General Contractor shall pay or satisfy it and shall pay all costs, attorney's fees and expenses incurred by the Owner.

42.3 If any part of the General Contractor's Work depends upon the work of any other separate contractor, the General Contractor shall promptly report to the Consultant any observed defects in such work that render it unsuitable for proper execution connection. The failure to inspect and report shall constitute an acceptance of the other contractor's work as fit and proper for the reception of the work, except as to defects which may develop in the other contractor's work after the execution of the work.

42.4 Whenever work being done by the Owner's forces or by other contractors is contiguous to work covered by this Contract, the respective rights of the various parties involved shall be established by the Owner to secure the completion of the various portions of the Work in general harmony.

#### **ARTICLE 43 - GENERAL CONTRACTOR/SUB-CONTRACTOR RELATIONSHIP**

43.1 The General Contractor is fully responsible to the Owner for the acts and omissions of the Sub-contractors and of persons either directly or indirectly employed by them. The General Contractor is responsible for the acts and omissions of persons employed directly by the General Contractor and for the coordination of the Work, including placement and fittings of the various

component parts. No claims for extra costs as a result of the failure to coordinate the Work, or by acts or omissions of the various Sub-contractors, will be paid by the Owner.

43.2 Except as otherwise provided in these Contract Documents, the General Contractor agrees to bind every Sub-contractor by the terms and conditions of the Contract Documents as far as applicable to their portion of the Work. Upon request, the General Contractor shall provide copies of any subcontracts and purchase orders to the Owner or Consultant.

43.3 The General Contractor shall make no substitution or change in any Sub-contractor listed and accepted by the Consultant or Owner except as approved in writing by the Owner. The General Contractor shall not employ any Sub-contractor or supplier against whom the Owner or the Consultant has made reasonable and timely objection.

43.4 Nothing contained in the Contract Documents shall create any contractual relationship between the Owner and any Sub-contractor, Trade Contractor or Supplier, nor shall the General Contractor include any language in their contracts with any Sub-contractor, Trade Contractor and/or Supplier that might imply such a relationship. The General Contractor is hereby notified that it is the General Contractor's contractual obligation to settle disputes between Sub-contractors, Trade Contractors, and/or Suppliers. Neither the Owner nor the Consultant will settle disputes between the General Contractor and any Sub-contractor, Trade Contractor, and/or Supplier or between Sub-contractors, Trade Contractors, and/or Suppliers.

43.4.1 The Owner does not waive sovereign immunity under KRS 45A.245(1) for any claim or claims made by parties not having a written contract with the University of Kentucky.

43.4.2 Third party and/or flow-through type claims, from Sub-contractors and/or suppliers or any other entity not having a written contract directly with the University, are specifically prohibited by this Contract and no provision of the General Contractor's contracts with such entities shall indicate otherwise.

43.4.3 The General Contractor shall indemnify and hold harmless the Owner and its agents and employees from any claims relating to the Project brought against the Owner by any of the General Contractor's Sub-contractors or suppliers, or between their sub-contractors or suppliers.

#### **ARTICLE 44 - CASH ALLOWANCE**

44.1 The General Contractor is to provide or require the Sub-contractor(s) to include in the Contract Amount all costs necessary to complete the Work. Costs based on "allowances" shall be permitted only for objectively quantifiable material items and only with the prior written approval of the Owner.

#### **ARTICLE 45 - PROJECT SITE LIMITS**

45.1 The General Contractor shall confine the apparatus, the storage of materials, and the operations of Workmen to Project site limits indicated in the Contract Documents and as permitted by law, ordinances, and permits, and shall not unreasonably encumber the site with materials and equipment.

#### **ARTICLE 46 - CLEAN UP**

46.1 The General Contractor shall at all times keep the premises free from accumulation of waste material or rubbish caused by the operations in connection with the Work. All corridors and exit

doors must be kept clear at all times. All exit ways, walks, and drives must be kept free of debris, materials, tools and vehicles.

46.2 At the completion of the Work, and prior to final inspection and acceptance, the General Contractor shall remove all remaining waste materials, rubbish, General Contractor's construction equipment, tools, machinery, and surplus materials and shall leave the Work in a clean and usable condition, satisfactory to the Consultant and the Owner. If the General Contractor fails to clean up as provided in the Contract Documents, the Owner may perform the cleaning tasks and charge the cost to the General Contractor.

#### **ARTICLE 47 - POINTS OF REFERENCE**

47.1 The General Contractor shall carefully preserve bench marks, reference points and stakes, and in case of willful or careless destruction, the General Contractor shall be charged with the resulting expense of replacement and shall be responsible for any mistake that may be caused by their loss or disturbance.

#### **ARTICLE 48 - SUBSTITUTION - MATERIALS AND EQUIPMENT**

48.1 Reference to or the listing of items to be incorporated in the construction without referring to any specific article, device, equipment, product, material, fixture, patented process, form, method or type of construction, or by name, make, trade name, or catalog number shall be interpreted as establishing the general intent of the Contract and the general standard of quality for that item.

48.2 Specific references in the Contract Documents to any article, device, equipment, product, material, fixture, patented process, form, method or type of construction, or by name, make, trade name, or catalog number, with the words "or equal", shall be interpreted as establishing a minimum standard of quality, and shall not be construed as limiting competition.

48.2.1 Substitution of other equipment and materials as "or equal" to items named in the specifications will be allowed provided the proposed substitution is approved by the Consultant and will perform the functions called for by the general design, be similar and of equal quality to that specified and be suited to the same use and capable of performing the same function of that specified. The Contractor has the burden to prove equality of any substitution requested.

48.3 Specific references in the Contract Documents to any article, device, equipment, product, material, fixture, patented process, form, method or type of construction, or by name, make, trade name, or catalog number, without the words "or equal", shall be interpreted as defining an item or source that has after careful consideration been determined by the University as necessary to be compliant with, and/or to function properly within, the University operational system. No substitutions will be allowed.

48.3.1 In the event the Contract Documents contain specific reference to two (2) or more items as described in Article 48.3, any of those listed will be acceptable.

48.4 Substitution of equipment and materials previously submitted by the Contractor and approved by the Consultant will be considered only for the following reasons:

48.4.1 Unavailability of the materials or equipment due to conditions beyond the control of the supplier.

48.4.2 Inability of the supplier to meet Contract Schedule.

48.4.3 Technical noncompliance to specifications.

48.5 In substituting materials or equipment, the Contractor assumes responsibility for any changes in systems or modifications required in adjacent or related work to accommodate such substitutions, despite consultant approval, and all costs associated with the substitution shall be the responsibility of the Contractor. The Consultant shall be reimbursed by the Contractor for any architectural or engineering revisions required as the result of such substitutions.

48.6 Inclusion of a certain make or type of materials or equipment in the Contractor's bid proposal shall not obligate the Owner to accept such materials or equipment if they do not meet the requirements of the Contract Documents and any such substitutions in the preparation of the bid without written approval shall be at the sole risk of the Contractor.

#### **ARTICLE 49 - TEST AND INSPECTION**

49.1 Regulatory agencies of the government having jurisdiction may require any Work to be inspected, tested or approved. The General Contractor shall assume full responsibility therefore, pay all costs in connection therewith, unless otherwise noted, and furnish the Consultant the required certificates of inspection, testing or approval.

49.2 The General Contractor shall give the Consultant timely notice of readiness of the Work for all inspections, tests or approvals.

49.3 The technical specifications may indicate specific testing requirements to be performed by the General Contractor. Unless otherwise provided in the Contract Documents, the cost of all such testing shall be the responsibility of the General Contractor. Testing shall be completed using a testing facility or laboratory approved by the Owner.

49.4 The costs of all inspection fees as may be required to construct and occupy the Work shall be the responsibility of the General Contractor.

#### **ARTICLE 50 - WARRANTY**

50.1 The General Contractor warrants to the Owner and the Consultant that all materials and equipment furnished under this Contract shall be new and in accordance with the requirements of the Contract Documents, and that all Work shall be of good quality, free from faults and defects and in conformance with the Contract Documents. If required by the Consultant or the Owner, the General Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment. If the General Contractor requests approval of a substitution of material or equipment, the General Contractor warrants that such installation, construction, material, or equipment will equally perform the function for which the original material or equipment was specified. The General Contractor explicitly warrants the merchantability, the fitness for a particular purpose, and quality of all substituted items in addition to any to any warranty given by the manufacturer and/or supplier. Approval of any such substitution is understood to rely on such warrant of performance. Prior to the Substantial Completion inspection, the General Contractor shall deliver to the Consultant all warranties and operating instructions required under the Contract or to which the General Contractor is entitled from manufacturers, suppliers, and Sub-contractors. All warranties for products and materials incorporated into the Work shall begin on the date of Substantial Completion. The warranty provided in this Article 50 shall be in addition to and not a limitation of any other warranty or remedy required by law or by the Contract Documents, and such warranty shall be interpreted to require the General Contractor to replace defective material and equipment and re-execute defective Work which

is disclosed to the General Contractor by or on behalf of the Owner within a period of one (1) year after Substantial Completion of the entire Work in addition to other warranty obligations beyond one (1) year from Substantial Completion as provided for by law or by the Contract Documents.

50.2 Neither the final payment, any provision in the Contract Documents nor partial or entire use or occupancy of the premises by the Owner shall constitute an acceptance of Work not done in accordance with Contract Documents or relieve the General Contractor or its Sureties of liability with respect to any warranties or responsibilities for faulty materials and workmanship. The General Contractor or its sureties shall remedy any defects in Work and any resulting damage to Work at the General Contractor's own expense. The General Contractor shall be liable for correction of all damage resulting from defective Work. If the General Contractor fails to remedy any defects or damage, the Owner may correct Work or repair damages and the cost and expense incurred in such event shall be paid by or be recoverable from the General Contractor or the surety. The Owner will give notice of observed defects with reasonable promptness.

50.3 The General Contractor shall guarantee that labor, material, and equipment will be free of defects for a period of one (1) year from the date shown on the Certificate of Substantial Completion unless special conditions or additional warranty periods are required by the contract pursuant to Article 23 in addition to warranty obligations which extend beyond one year from Substantial Completion. The Owner will give notice of observed defects with reasonable promptness. Expendable items and wear from ordinary use are excluded from this warranty.

50.4 Should the General Contractor be required to perform tests that must be delayed due to climate conditions, it is understood that such tests will be accomplished by the General Contractor at the earliest possible date with provisions of the general warranty beginning upon satisfactory completion of said test. The responsibility of the General Contractor under this Article will not be abrogated if the Owner should elect to initiate final payment. If the Owner initiates final payment, consent of General Contractor's surety acknowledging that Work not yet tested is required. The General Contractor shall warrant that the entire Project will conform to the Contract Documents.

50.5 In addition to the foregoing, the General Contractor shall warrant for a period of one (1) year that all buildings and other improvements constructed as a part of the Work shall be watertight and leak proof at every point and in every area. The General Contractor shall, immediately upon notification by or on behalf of the Owner of water penetration, determine the source of water penetration and, at the General Contractor's expense, (a) do any work to be necessary to make such buildings or improvements watertight and (b) repair and replace any other damaged material, fences and furnishings damaged as a result of such water penetration and return the buildings or other improvements to their original condition.

50.6 The General Contractor shall address and resolve to the Owner's satisfaction any warranty claims made by or on behalf of the Owner during the above described warranty period and all repairs and replacements made by the General Contractor pursuant to this Article 50 shall be warranted by the General Contractor, on the terms set forth in this Article 50, for a period of time commencing upon the completion of such repairs and replacements and ending on the later of (a) the expiration of the one (1) year warranty period provided for above or (b) six (6) months after the date such repair or replacement is completed.

50.7 All costs, attorney's fees and expenses incurred by the Owner as a result of the General Contractor's failure to honor any warranty for the Work shall be paid by or recoverable from the General Contractor.

**ARTICLE 51 - PREVAILING WAGE LAW REQUIREMENTS (NO LONGER USED AS OF 1/9/2017)**

**ARTICLE 52 - APPRENTICES**

52.1 Apprentices (for all classifications of work) shall be permitted to work only under an apprenticeship agreement approved by the Kentucky Supervisor of Apprenticeship and by the Kentucky Apprenticeship and Training, United States Department of Labor.

**ARTICLE 53 - GOVERNING LAW**

53.1 This Contract and all issues and disputes arising out of this Contract shall be governed by, construed and enforced in accordance with the laws of the Commonwealth of Kentucky without consideration of its conflicts of laws principles.

**ARTICLE 54 - NONDISCRIMINATION IN EMPLOYMENT**

54.1 During the performance of the Contract, the General Contractor agrees as follows:

54.1.1 The General Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, age, national origin, or disability in employment. The General Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, age, national origin, or disability in employment. Such action shall include, but not be limited to the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. The General Contractor agrees to post in conspicuous places available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

54.1.2 The General Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the General Contractor; state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, age, national origin or disability in employment.

54.1.3 The General Contractor will send to each labor union or representatives of workers with which it has a collective bargaining agreement or other contract or understanding, a notice advising the said labor union or workers' representatives of the General Contractor's commitments under this Article, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

54.2 Failure to comply with the above nondiscrimination clause constitutes a material breach of Contract.

**ARTICLE 55 - AFFIRMATIVE ACTION; REPORTING REQUIREMENTS**

55.1 The General Contractor and any Sub-contractor is exempt from any affirmative action or reporting requirements, under the Kentucky Equal Employment Opportunity Act of 1978, KRS 45.550 to KRS 45.640 "The Act", if any of the following conditions are applicable:

55.1.1 The sub-contract awarded is in the amount of two hundred and fifty thousand dollars (\$250,000.00) or less, and the amount of the sub-contract is not a subterfuge to avoid compliance with the provisions of the Act;

55.1.2 The General Contractor or Sub-contractor utilizes the services of fewer than eight (8) employees during the course of the Contract;

55.1.3 The General Contractor or Sub-contractor employs only family members or relatives;

55.1.4 The General Contractor or Sub-contractor employs only persons having a direct ownership interest in the business and such interest is not a subterfuge to avoid compliance with the provisions of The Act.

55.2 The General Contractor and any Sub-contractor, not otherwise exempted, shall:

55.2.1 For the length of the Contract, hire DBE's from within the drawing area to satisfy the agreed upon goals and timetables. Should the union with which the General Contractor or Sub-contractor have collective bargaining agreements be unwilling to provide sufficient DBE's to satisfy the agreed upon goals and timetables, the General Contractor and Sub-contractors shall hire DBE's from other sources within the drawing area.

Diverse Business Enterprises (DBE) consist of minority, women, disabled, veteran and disabled veteran owned business firms that are at least fifty-one percent owned and operated by an individual(s) of the aforementioned categories. Also included in this category are disabled business enterprises and non-profit work centers for the blind and severely disabled. MBE, WBE, Veterans, Disabled Veterans and Disabled make up Diverse Business Enterprises (DBE)

55.2.2 The equal employment provisions of The Act may be met in part by the General Contractor contracting to a Diverse Business Enterprise (DBE) contractor or Sub-contractor.

55.2.3 Each General Contractor shall, for the length of the Contract, furnish such information as required by The Act and by such rules, regulations and orders issued pursuant thereto and will permit access to all books and records pertaining to its employment practices and Work sites by the contracting agency and the department for purposes of investigation to ascertain compliance with The Act and such rules, regulations and orders issued pursuant thereto.

55.3 If the General Contractor is found to have committed an unlawful practice against a provision of The Act during the course of performing under this Contract, a subcontract covered under The Act, the Owner may cancel or terminate the Contract, conditioned upon a program for future compliance approved by the Owner. The Owner may also declare such General Contractor ineligible to submit proposals on further contracts until such time as the General Contractor complies in full with the requirements of The Act.

55.4 Any provisions of The Act notwithstanding, no General Contractor shall be required to terminate an existing employee, upon proof that employee was employed prior to the date of the Contract, nor hire anyone who fails to demonstrate the minimum skills required to perform a particular job.





Campus Physical Plant Division

# Planning, Design and Construction Services (PDCS)



## Contractor Handbook



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## Purpose

The University of Kentucky (UK) recognizes that many hazards are inherent in construction and other contract work. Compliance with safety regulations can prevent virtually all serious injuries. This guide serves as notification of campus safety requirements to contractors, including subcontractors, who perform work at UK and any other facilities operated by the University. Contractors should not assume that this guide covers all applicable safety and health laws as it does not. Instead, it provides contractors with site specific safety, health and environmental rules and policies which the University expects will be followed on all University property. The rules, regulations and guidance contained herein represent program areas that have been problematic in the past or require special care and consideration due to the nature of the working environment at the University. Additionally, contractors are required to follow applicable federal, state, and local safety and health regulations.

**General Note: No work should proceed without a Purchase Order or a Letter of Intent of Contract from UK Central Purchasing.**

## Noise

The contractor shall endeavor to keep the work area as quiet as possible when the work is in proximity to buildings with classrooms. If powder activated tools, screw guns, or other such devices must be used to accomplish the work, the contractor shall notify the UK – P, D & C Project Manager and advise him of the type of equipment to be used and the duration of the work. At times it will become necessary for the contractor to stop work immediately when advised by the UK – P, D & C Project Manager or UK Environmental Health and Safety that the work is adversely affecting classrooms activities.

## GLOSSARY OF TERMS

### ACRONYMS

**ACM** Asbestos-Containing Material—any material containing more than 1 percent asbestos

**ANSI** American National Standards Institute

**ASTM** American Society for Testing and Materials

**EH&S** UK Department of Environmental Health & Safety

**EPA** United States Environmental Protection Agency

**FDA** United States Food and Drug Administration

**HASP** Health and Safety Plan

**MSDS** Material Safety Data Sheet

**NFPA** National Fire Protection Association

**NEC** National Electrical Code (NFPA 70)

**UK EHS - FM** UK Office of Fire Marshall

**OSHA** Occupational Safety and Health Administration

**NIOSH** National Institutes of Occupational Safety and Health

**PACM** Presumed Asbestos-Containing Material

**PCBs** Polychlorinated biphenyls

**PPE** Personal Protective Equipment

**PRCS** Permit-Required Confined Space

**UKPD** UK Police Department

# Planning, Design and Construction Services – Contractor Handbook

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## **Abatement**

The UK - P, D & C Project Manager will request a survey to determine whether any asbestos or lead is present in any materials that are scheduled to be removed from the project prior to the issuance of the Notice to Proceed. The Contractor will refer to the contract to determine abatement responsibilities. The Contractor will contact the Project Manager if there are any questions. If the Contractor discovers an area that is stained and appears to be moldy (usually on drywall surfaces), The Contractor WILL NOT disturb the area and will contact the Project Manager or Construction Coordinator to schedule an assessment of the area by the UK Environmental Health and Safety Department. The Contractor is always responsible for the proper removal and disposal of any materials identified as contaminated if abatement is in their contract scope pursuant to State and Federal laws.

## **Access to Construction Sites**

The PDCS Project Manager and Contractor will define who is authorized to enter the construction site. Except for emergencies, other personnel desiring access to a construction area must do the following:

1. Obtain approval to enter the construction premises from the Contractor's Superintendent, the PDCS Project Manager or emergency personnel.
2. Obey all safety regulations and posted sign requirements, wear appropriate Personal Protective Equipment (PPE) comparable to the PPE requirements for workers on the project, and follow special instructions.

## **Accident Reporting**

In the event of any injury, incident, near miss or accident that involve any individual, equipment, property or bystander on or near the work, the contractor shall notify the PDCS Project Manager and Project Safety Coordinator immediately and follow up the verbal report with the Contractors First Report of Injury and/or the required PDCS Incident Reporting and Investigation form within twenty-four (24) hours of the event.

## **Alcohol, Drugs, and Other Prohibited Articles**

The University of Kentucky Facilities Services and PDCS prohibit the possession, use, distribution, or sale of alcoholic beverages, intoxicants, drugs, or any drug related paraphernalia on the project premises, facilities, or any work places. The University of Kentucky is a Tobacco Free Campus – CAMPUS WIDE.

For areas located within Fayette County, Kentucky, the use of all tobacco products is prohibited on all property that is owned, operated, leased, occupied, or controlled by the University. "Property" for purposes of this paragraph includes buildings and structures, grounds, parking structures, enclosed bridges and walkways, sidewalks, parking lots, and vehicles, as well as personal vehicles in these areas. To view the Lexington campus boundaries:

<http://www.uky.edu/TobaccoFree/files/map.pdf>.

General Contractor employees violating this prohibition will be subject to dismissal from the Project.

# Planning, Design and Construction Services – Contractor Handbook

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## Chemical Spills

In the event of a spill of environmentally damaging materials, immediate response is required. All construction personnel shall observe and follow the standard precautions for handling potentially hazardous materials as outlined on the Manufacturer's Material Safety Data Sheets (MSDS), including the use of proper personal protective equipment.

Emergency responders are available from Environmental Health and Safety (EHS) - Environmental Management and/or Radiation Safety when a biological, chemical, or radioactive spill occurs. Responders are also available for other hazardous incidents such as indoor air quality issues and drinking water concerns.

The University Environmental Health and Safety Department (Environmental Management) should be notified immediately in the event of:

1. Any spill that threatens to enter a storm sewer or watercourse.
2. All petroleum spills, e.g. hydraulic fluid, transmission fluid, diesel, gasoline, etc.
3. Any hazardous or unknown material spill, e.g. many solvents, cleaners, etc.
4. Any discharge from the site which is suspected to be in violation of LFUGC Codes, Commonwealth of Kentucky regulations, or any other applicable laws and regulations, e.g. discharges which are cloudy, foul smelling, colored, contain chemicals, or heavy sediment loads.

Notification can be accomplished by calling UK Environmental Management at (859) 323-6280. After Hours and Weekends call (859) 257-8573 UKPD. Always call 911 for emergencies! (Have your name, number, location, and any other pertinent information available at the time of the call. It is important to inform the Safety Office and UKPD if anyone has been injured or if there has been any personal exposure to the hazardous material.

See UK Environmental Health and Safety's web site for additional information: <http://ehs.uky.edu/>

University of Kentucky Environmental Health & Safety 252 East Maxwell Street Lexington, KY 40506-0314  
Phone: (859) 257-3845 Fax: (859) 257-8787

## Cleanliness of Project Areas

The construction site, work areas, and all premises occupied by the Contractor and his subcontractors must be maintained in a clean, healthy, and sanitary condition. Work areas, passageways, and stairs in and around building and structures must be kept clear of debris and trip hazards. Construction materials must be stored in an orderly manner. Site storage areas and walkways shall be kept free of dangerous depressions, obstructions, and debris. Construction equipment shall be stored in an orderly manner in a pre-approved location. Good housekeeping on the job site is mandatory and all construction personnel must do their part to daily minimize dust and keep the work area safe and clean. The use of dust partitions, HEPA vacuums, negative pressure, when practical, and Walk-Off mats may be required to keep dirt, dust, smoke and/or fumes from being tracked or migrating into areas outside the workspace.

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The Contractor must protect all areas adjacent to the construction site from excess noise, dust, debris, trash or damage resulting from the construction work. The Contractor will be held responsible for the immediate cleanup of any adjacent areas should the work infringe into unauthorized areas of construction.

## **Commencement and Special Events Requirements**

The PDCS Project Manager should discuss all special event and commencement activities with the Contractor during the Pre- Construction Meeting since these ceremonies can significantly impact the renovation project schedule. The Contractor should be prepared to move all vehicles, dumpsters, and fencing from the project area for college convocations and commencement ceremonies. Be prepared to stop working in buildings located near the special event or activity.

## **Conduct and Appearance**

All Contractor employees and subcontractors must maintain appropriate appearance while working on campus. Proper dress for the job sites means no shorts, open toed shoes, sandals, tennis shoes, tank tops or tee shirts with prints or writing that could be deemed offensive to others.

All members of the contracting staff must maintain proper conduct in regard to personal actions and contact with students or staff members while on University property. Any employee of the contractor or subcontractor found engaging in improper conduct will be permanently removed from the campus.

## **Construction Plans and Specifications**

A set of “approved for construction” plans and specifications, including addenda and approved Change Orders, must be maintained on the job site throughout construction. For exterior projects, the Contractor may keep the approved plans and specifications in his/her work vehicle close to the site or in a job box on site.

## **Construction Project Issues**

Radios or portable stereos are not allowed on construction projects. Ear buds or headsets connected to a portable music device are discouraged. The Contractor shall discuss any potential noisy activity with the Construction Coordinator so that the work can be scheduled around classes, special events, and final exams.

Elevator cabs and floors must be protected if the Contractor intends to use them to transport materials into or out of the project. Contact the PDCS Project Manager if the elevator is to be used for this purpose.

When coring or drilling into a concrete floor, the Contractor should always check for reinforcing steel and electrical conduits preventing an unplanned electrical outage. If at any time energized electrical conduits cannot be identified, OSHA requires the coring operator to wear electrically rated and tested rubber gloves with leather protectors.



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Reminder: If the coring process creates dust, it is required that the Contractor request a smoke alarm outage. Smoke alarms are triggered when the dust rises! If using water to control dust during coring or saw cutting, it shall be contained and not allowed to run off or be dumped down sanitary or storm sewers.

**The Contractor shall never operate gas powered equipment inside a building.**

## **Contractor Reporting of Safe Work Practices**

Each industry recognized shift that work is accomplished by the Prime Contractor, the prime will be responsible for having site observations of each trade accomplished by one of the following personnel in their employment: their Project Manager, Project Superintendent or Certified Safety Professional.

PDCS will provide a form for this purpose and the report must be submitted once a week for work accomplished the following week. Copies of the reports must be distributed via electronic mail to the PDCS Project Manager, UK Safety Coordinator and the Construction Services Manager for PDCS.

Each time the Contractor performs work that requires locking out any energized system ( i.e. electrical plumbing, or mechanical), the contractor must take a date and time stamped photo of their Lock Out/Tag Out outage and submit these photos to the same PDCS personnel identified for weekly safety reports.

## **Contractor Training and Safety Requirements**

Contractors are responsible for the safety of their workers, their subcontractors, job site visitors and for meeting all requirements of the contract.

The Contractor shall assure that all workers on the site are qualified and competent (as defined by OSHA) to perform the duties of the job as assigned.

The Contractor's Project Managers and Superintendents shall have completed the OSHA 30 hour training and submit evidence of the training to PDCS prior to the issuance of a Notice to Proceed

## **Coring and Saw Cutting Scans**

Prior to any coring or saw cutting of any concrete or masonry surface, the area to be penetrated must be scanned with GPR (Ground Penetrating Radar) and all embeds shall be clearly marked unless other requirements are stated in the plans and specifications by the Engineer of Record.

Approval from PDCS is required prior to coring or saw cutting activities.

## **Emergency Phone Numbers**

Emergency contact information must be posted at the project area in a conspicuous place.

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## **Equipment Add-Delete Modification Log**

The Contractor must ensure that all major equipment that is added or deleted as part of the construction project is logged on an Equipment Add/Delete Log which will be provided by the PDCS Project Manager for the Contractor's use. The Contractor is required to update and maintain the Equipment Add/Delete Log with all required information throughout the construction project. The Contractor shall submit the "Equipment Add/Delete Modification Log" when the Substantial Completion inspection is requested.

## **Equipment Usage**

Contractors shall:

- Ensure the safety of their equipment by implementing an equipment inspection scheme.
- Shall not use shop made or special tools and equipment unless supplied by a drawing that is stamped or signed by a Professional Engineer.
- Shall not use or alter tools and equipment beyond the manufacturer's recommendations unless approved by the manufacturer or a PE.

## **Erosion Control Measures (Exterior Projects)**

Proper erosion and sedimentation controls must be in place to prevent sediment or silt run-off. Sediment (including concrete spoils) should never be rinsed off at the site: instead, sediment must be cleaned in a manner that does not allow it to reach a storm drain. Equipment tires must be rinsed before leaving the site if necessary to avoid tracking sediment into the roadway or off the site. Silt fencing must be used per the approved plans or as EHS determines necessary to protect the site and the balance of the campus from runoff. Other methods of runoff protection such as tri-dikes and sand bags should be used to keep construction debris and silt from entering the storm drains.

## **Escalated Notice of Noncompliance**

A defined process for the Escalation of Notice of Noncompliance will be implemented to ensure performance based compliance with safety provisions and to reduce the frequency of safety violations and accidents. PDCS expects that every effort will be made to resolve safety and contractual issues on-the-spot or in accordance with planning agreed to by the Project Manager.

**Repeated safety or health violations will become a matter of record and will be part of the evaluation of the Contractor's bids on future awards.**

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## Extension Cords

Extension cords used with portable electric tools and appliances shall be UL rated, 12 AWG, heavy duty (S, SO, STO, SJ SJO SJTO) and of the three wire grounding type. The cords shall conform to the type and configuration required by OSHA standards. The cords shall be used with GFCI adapters or outlets.

## Exterior Outlets

Do not plug any extension cords into exterior outlets where an electric cart is plugged in. These carts require a dedicated circuit and multiple outlet usage will risk damaging the electric gel battery.

## Evacuation Plan / Fire Response

<http://ehs.uky.edu/fire/ukfire1.html>

It is imperative that contractors/vendors and University maintenance/construction personnel react immediately should a fire condition be discovered within the work area or should the fire alarm be activated outside the work area. The following are standard University procedures that are required and must be implemented. All contractors/vendors and University maintenance/construction employees are to be trained in these procedures. Directors of the Campus Physical Plant and the Medical Center Physical Plant are further referenced to the UNIVERSITY EMERGENCY RESPONSE PLAN (issued February 1994) that is to be implemented for fire emergencies.

### ❖ Person Discovering a Fire

- **ACTIVATE THE FIRE ALARM.** Without endangering yourself, rescue and/or assist anyone in immediate danger. Close the doors in the fire area.
- **PROCEED TO A SAFE LOCATION AND CALL 911** to report the fire. Give the building's name, room number, and any special conditions.
- **MEET THE EMERGENCY RESPONDERS** (firemen/U.K. Police) and upon their arrival, advise them of the conditions as you know they exist.
- **DO NOT RE-ENTER THE BUILDING** unless requested by and accompanied by the firemen to the scene.

### ❖ When the Fire Alarm Sounds

- **IMMEDIATELY EVACUATE** the building. Treat all alarms as a real emergency. Close the door as you leave the room. Always use the exit stairs. Never use an elevator.
- **FEEL THE DOOR.** A "too hot to touch door" means the fire is outside the door.
- **CRAWL** should you get caught in smoke. If necessary, go to the window and signal for help.
- **ASSIST A PHYSICALLY IMPAIRED PERSON TO THE CLOSEST EXIT STAIRWELL** and advise emergency personnel of this condition.
- **UPON EVACUATION**, go to a safe location outside. If possible, account for everyone in your work group.
- **NEVER RE-ENTER THE BUILDING** until fire officials give the approval.
- **REPORT** anyone causing a false alarm to the emergency responding personnel

It is to be noted that the above procedures do not require an employee to use a fire extinguisher. Should an employee decide to use an extinguisher, she/he must be properly trained and must do so without endangering themselves or others. It is strongly emphasized that priority must be given to activating the fire alarm system before utilizing a fire extinguisher.

## Fire Alarms

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Fire Alarms are a very sensitive item at UK. The Contractor shall speak with the Construction Coordinator at least 48 hours in advance to schedule the disabling of smoke detectors, fire alarm devices (audio/visual), or pull stations.

Demolition activities (including cutting, coring and sanding) will cause dust which can set off smoke detectors. It is never permissible to cover any smoke detector. Smoke detectors must be disabled by the UK – PPD Electronics personnel.

Only a licensed fire alarm contractor can perform work on UK fire alarm systems. This work would include removal of smoke detectors, fire alarm devices (audio/visual), and pull stations. The Contractor shall make sure that the fire alarm contractor is certified to work on the project fire alarm system. If the Contractor is unsure, he/she shall call the Construction Coordinator who will research this information.

The Contractor shall verify whether or not the fire alarm panel is under warranty. If it is under warranty, only the company who installed the system can perform any work on the system. All alarm panel warranties can be verified by the Construction Coordinator.

## **Fire Alarm System Acceptance**

The Contractor must not take instructions directly from any stakeholder including UK personnel. Questions or concerns should be routed via RFI to the PDCS Project Manager and the Professional Service Provider of record.

When the Contractor has completed installation of the new devices or system, the Contractor must perform a pre-test. Pre-test requirements are as follows:

- Testing 100 % of the new installation and all new devices as well as 10% of all other devices on the same circuit
- Testing must be scheduled Monday through Friday early in the morning and prior to the start of classes. The Building Management must approve the dates and times of testing prior to initiating the pre-tests.
- All audible and visual devices inclusive in the installation must be individually tested and a log of each device must be maintained as proof that all individual components were tested.
- Prior to Final Testing: At least 72 hours prior to scheduling the final testing, the Contractor must submit to the Project Manager all As-Built progress drawings on a CD in Auto Cad format, system calculations, and all other documents required by the specifications.

## **Fire Sprinklers**

Before any work is performed on fire sprinkler systems by a certified Sprinkler Contractor, the lines must be drained. The Contractor shall notify the PDCS Project Manager at least 2 weeks in advance to schedule the drain down of the fire sprinkler system. Before the fire sprinkler contractor starts work; the Contractor is required to call UK DELTA ROOM to notify of system shut down. The fire sprinkler contractor is required to contact the UK- Physical Plant Division plumbing staff on call once they have completed work so that the system can be filled.

During the time the fire sprinkler system is drained, one person is required to act as a full time fire watch with no other duties. This person must be on site full time while the system is drained.

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## **Gifts and Gratuities**

<http://www.uky.edu/Legal/ethicscode.htm>

Please reference this link to the UK office of Legal Counsel for the requirements concerning UK's Ethical Principles and Code of Conduct requirements and restrictions for UK Staff and Personnel.

## **Hazard Notice**

Asbestos, Lead, Biological, X-Ray, Laser, Mercury, Nuclear, Radiological, Physical and Hazardous Materials may be present at the job site. The Contractor shall work closely with PDCS to assure that proper preparation and surveys have been conducted prior to starting any demolition work. Environmental Health and Safety departments will notify PDCS staff (and post notices – if applicable) when laboratory spaces, etc. have been cleared for demolition and construction operations.

## **Hot Work and Authorization to Work**

Hot Work is defined as any type of open flame welding, cutting, or soldering that takes place on a project. Smoke detectors must be disabled by UK – PPD Electronics personnel prior to the start of any hot work. Additionally, fire extinguishers, fire blankets and Fire Watch are required in the hot work area.

Permits to work in Confined Space, performing Hot Work, Lock Out/ Tag Out of energized systems or welding/cutting requires the Contractor to issue their work specific permit and to post it visibly on the project site.

These work tasks must be discussed prior to scheduling as part of the project weekly meeting to verify proper University of Kentucky approval has been secured through all applicable UK services and UK P, D&C Project Manager.

Permits must clearly note the Date, PDCS Project Number, Specific Location and Floor including applicable room numbers, Description of work being performed, the name of the person/company performing the work, and the signature of the Prime Contractor.

The permit must have a start date and time and an expiration date and time.

## **Identification and Badging of Workers**

All job site personnel or visitors shall openly display photo identification or Contractor issued ID badge on the upper torso unless working activity would prohibit.

## **Injuries, Incidents, Equipment Damage**

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In the event of all injuries, incidents, or accidents that involve any individual, equipment, property or bystander on or near the Work, the Contractor shall notify the PDCS Project Manager and the Safety Coordinator immediately and follow-up the verbal report with the written Contractors First Report of Injury and the PDCS required Incident Reporting and Investigation form within twenty-four (24) hours of the event.

## **Inspections and Testing**

The Contractor shall schedule any inspections that are needed (architectural, plumbing, mechanical, electrical, or special systems) at least 7 working days prior to the inspection. Discussing inspections at construction progress meetings and noting inspections on the schedule can aid in obtaining timely inspections and tests.

## **Job Site Binder**

For projects ranging from \$100,000 to \$600,000 - Safety related documentation for construction work shall be retained in a Job Site Binder. The Binder shall include and not be limited to the following documents:

- The Contractor Safety Manual & Site Safety Plan
- Excavation/Trenching Plans (if exterior work is performed)
- Incidental, Medium, Heavy and Critical Lift Plans (As required)
- Safety/Daily Inspection Logs (completed by Contractor)
- Contractor training records
- Project Roster, Contractor and Subcontractor Emergency Contact Information
- Material Safety Data Sheets

## **Large Vehicle Deliveries**

The Contractor shall schedule any large vehicle deliveries (large equipment, cranes, concrete and concrete pump trucks, or large furniture deliveries) with the Construction Coordinator. The Construction Coordinator must inform UK Parking and Transportation Services (7) seven working days in advance of the delivery as these vehicles may adversely impact the normal operations on campus. The Contractor is urged to schedule project deliveries prior to 7:00 am whenever feasible to avoid student traffic.

## **Liability for Non Approved Work in Place (SUBMITTALS)**

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The Contractor shall not commence with any work requiring a submittal until that submittal has been approved by PDCS Project Manager. The Contractor shall not substitute items unless they have submitted a request for substitution and that request has been approved by PDCS.

## **Locks and Keys (UK Key Shop)**

The Contractor shall request all keys that will allow access to any rooms within the project area. This request shall be made to the PDCS Project Manager prior to the Notice to Proceed being issued. The Project Manager will complete a Key Request form which is submitted to UK Keys Shop. UK Key Shop will call the Contractor to pick up the keys usually within 72 hours. <http://www.uky.edu/AuxServ/keyshop/index.html>

Some UK buildings will require special access (use of an access code or a special ID). The Contractor shall consult with the Project Manager to get this type of access prior to the Notice to Proceed.

## **Material Safety Data Sheets (MSDS)**

All chemicals and hazardous substances, (e.g., fuels, solvents, adhesives, paints, caulks, etc.) used by the Contractor must have a Material Safety Data Sheet (MSDS) included in the submittals. The MSDS shall be used to assist in selection of PPE and emergency response protocols. Copies of the MSDS sheets shall be maintained at the job site in the Job Site Binder.

## **Observations / Inspections**

Throughout all phases of construction, PDCS personnel assigned to oversee the work being performed by the Contractors and their subcontractors will monitor field activities on a regular basis to ensure that work is being conducted in a safe manner.

Observations by UK EHS and UK Fire Marshal may take place at any time to ensure compliance with applicable codes, standards, and regulations.

The PDCS Project Manager will formally notify the Contractor of any deficiencies and verify that appropriate corrections are made. A Nonconformance, Preventative, and Corrective Action reporting and tracking procedure will be implemented.

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## **Operations and Maintenance Manuals (O & M)**

The University requires a minimum of 1 bound sets of final installation, training, operation, maintenance, and repair manuals to be turned over to the owners' representative and approved for content by the University prior to the acceptance of substantial completion.

## **Outages (Utility)**

Outages must be scheduled in advance. UK requires at least 7 working days' notice (2 weeks for full building outages). The Contractor shall discuss any possible hot and cold water, gas, chilled water, electrical, fire system or other outage with the Construction Coordinator as soon as possible. For large scale or outages that affect multiple parties, an outage coordination meeting shall be convened to discuss and physically address the outage and control points and requires a minimum of two weeks' (10 business days minimum) notice. Any Utility work requiring demolition of roads & sidewalks must also be scheduled by an outage request - See the Path of Egress & Traffic Control section below.

## **Parking**

Parking on the UK Campus is always limited. The Construction Coordinator will submit a request to UK Parking & Transportation Services for the project during the bidding phase.

If parking/staging has been approved for the project, the Contractor shall erect a temporary fence / barrier to enclose the parking and dumpster spaces. Dumpsters and surrounding area within the gated enclosure must be maintained and cleaned at all times. Dumpsters shall be covered with a tarp at the end of each work day. The Contractor must display the parking permits provided by UK Parking and Transportation Services (PTS) on the dashboard of all company vehicles. UK PTS only recognizes original permits (not copies) as issued by their office. The Contractor must have the required project and safety signage on the fence (see project and safety signage section for requirements).

PDCS is not authorized to dismiss parking tickets. If the Contractor believes that he has received a citation in error, then the ticketed party may submit an appeal through UK Parking and Transportation.

<http://www.uky.edu/pts/>

## **Path of Egress & Traffic Control**

The Contractor shall take necessary action to protect and maintain public use of sidewalks, building entrances, lobbies, corridors, aisles, doors, exits, and vehicular roadways unless deemed unfeasible based on the scope of the project. Closure or rerouting of ADA access shall be arranged 5 business days in advance by contacting the Construction Coordinator.



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The Contractor must alert and protect the public through the use of proper signage, barricades including sidewalk sheds, canopies, catch platforms, fences, guardrails, shields, etc., ensuring adequate protection as required by law and or per the approved construction plans.

There are three threshold considerations in planning for pedestrian safety in temporary traffic control zones on highways and streets:

- 1) Pedestrians should not be led into direct conflicts with work site vehicles, equipment, or operations.
- 2) Pedestrians should not be led into direct conflicts with mainline traffic moving through or around the work site.
- 3) Pedestrians should be provided with a safe, convenient travel path that replicates as nearly as possible the most desirable characteristics of sidewalks or footpaths.

## **Personal Protective Equipment (PPE) Requirements**

It is the Contractor's responsibility to ensure protective equipment, including personal protective equipment for eyes, face, head, and extremities, protective clothing, respiratory devices, and protective shields and barriers, be provided, used, and maintained in a sanitary condition wherever it is necessary by reason of hazards of processes or environment, chemical hazards, radiological hazards, biological hazards, or mechanical irritants encountered in a manner capable of causing injury or impairment in function of any part of the body through absorption, inhalation, or physical contact to his or her employees.

PDCS requires the following PPE to be worn by all parties entering a construction site at all times: Hard hat (if overhead work is being performed or required per the contractors' safety program), appropriately tinted safety glasses (clear for indoors and tinted/or clear for outdoors) specifically for grinding or cutting where flying debris may be present, closed toe or steel toe safety shoes, appropriate clothing, and an identification badge. The Contractor is responsible for enforcing these requirements at all times.

The minimum requirements for parties entering a construction site are the following:

- Non Skid Safety shoes and/or Safety-toe shoes (ASTM F2412-2005 and F2413- 2005)
- Work shirt (long or short sleeve and work pants (long). Garments must be free of writing that could be construed as offensive or inappropriate.
- Other PPE requirements apply based on the Contractor's hazard assessment of the project and work areas. PPE requirements will be documented and posted at the job site using OSHA approved signs and symbols.

## **Pressure Washing**

Discharges from pressure washing must not be allowed to enter a storm sewer. The Contractor may consider vacuuming up the water or containing the process water and allowing it to evaporate. If the rinsate only contains water, dirt or

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sediment, it may be spread on the ground with prior approval from PDCS as long as the rinsate will not enter the storm drain. The Contractor will discuss this issue with the Project Manager prior to scheduling pressure washing.

## Pressure Testing

Pressure testing for water, sanitary, gas and air lines must have pre-authorization with the Engineer of Record; the PDCS Project Manager prior to scheduling.

Once authorized, the contractor shall put up signage as follows:

“TESTING IN PROGRESS ENTRY BY AUTHORIZED PERSONNEL ONLY”

## Project and Safety Signage

All construction projects at UK shall include the following signage and tags as a minimum:

Project and safety signs shall be placed at each project entrance, in hallways/corridors, mechanical rooms, electrical rooms, fenced parking and storage areas that includes: the contractors company name/logo, building/project number, project description (include job site location (floor, room number, etc.), Contractor’s point of contact, after hours/emergency numbers, and UK Police Department emergency contact numbers. Interior project information signs shall be a minimum of 11” X 17”. Exterior project information signs shall be a minimum of 24” X 24” and of a waterproof material.

Company Name/Logo

Building/Project No: 807001XXXXXX

Project Description:

Start Date:

Finish Date:

Architect:

Contractor PM/Super.: XXX-XXX-XXXX

PDCS Contact No.: Name and phone # 859.257.XXXX

Emergency No.: UK Police Dept.: 859.257.XXXX

Emergency After Hours: 859.257.XXXX

In addition to the above, the following signage shall be posted along with other special notifications and PPE requirements that the Contractor has determined to be required from their OSHA required hazard analysis and PPE

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assessments. Note: All safety signs shall be OSHA approved formats and color schemes. To be posted at the entrances of the site and every 50 feet around the fenced perimeter. To be posted at the site entrance. To be posted any time personnel are working aloft and placed on barricades, ladders, doorways, etc., to provide notice to pedestrians.

## **Roof Safety**

If roof operations are performed, it is required that a minimum of two (2) employees be within sight and hearing of each other. Employees who work within six (6) feet of the unprotected edge of a roof shall wear a safety harness and lifeline, or other OSHA approved fall protection system. This protection is not required if the roof has a permanent or portable railing system meeting OSHA height and strength requirements. When lifting or swinging heavy material over roofs, the area under the roof must be unoccupied or properly barricaded to prevent entrance by unauthorized persons. Safety for ground personnel shall include a barricaded hazard zone with men working above signage to keep students, staff, faculty, and patron's safe.

## **Safety Observations & Inspections**

First and foremost, the contractor is responsible for their employees/Subcontractors/vendors etc. actions on site. However, The University reserves the right to order the contractor to stop work at any time the following conditions exist:

- The Contractor's personnel are working in a manner that poses an immediate danger to life or health of their employees or the campus population.
- Work is being conducted in a manner that is exposing non-contractor individuals to an unsafe situation.
- Environmental requirements or regulations are not being met.

Observations by UK EHS and Fire Marshal may take place at any time to ensure compliance with applicable codes, standards, and regulations.

The PDCS Project Manager or Safety Coordinator will formally notify the Contractor of any deficiencies and verify that appropriate corrections are made. A Nonconformance, Preventative, and Corrective Action reporting and tracking procedure will be implemented.

Safety Inspections: The OSHA standards require the Contractor to perform daily inspections of activities, equipment and the work site, to ensure that the Contractor and their subcontractor employees are:

- Working within identified controls and have effectively controlled immediate hazards; and,
- Are wearing appropriate PPE.

The Contractor will be required to submit the results of their daily inspections to the Project Manager each week via electronic mail.

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The Contractor's competent person shall conduct regular inspections of the work place and maintain a documented system certifying compliance with contractor defined safe work practices and their safety manual. For example, the scaffolding inspection entries section on contractor-supplied scaffold tags should include evidence of daily inspections and/or configuration change approvals. Other areas of inspection may include rigging inspections, fall protection equipment, Lock-out/Tag-out, confined space, permits-to-work, forklifts, heavy equipment, equipment and tools.

Contractors shall provide emergency response/egress planning; properly inspected first-aid kits, and assures that fire extinguishers are available for their work teams within the designated OSHA distances.

When hazards are identified and when immediate corrective action is not possible:

- The affected workers must be notified,
- Warning signs must be posted, and
- Interim control measures must be established to guard against the hazards.

All inspections, findings, and corrective measures must be documented and kept onsite for review. The Contractor shall be prepared to brief the number of inspections, findings, incidents, Job Briefings, etc. at progress meetings.

## **Sanitary Facilities**

In most cases, there are sanitary facilities available for the Contractor's use. The Construction Coordinator will assist in identifying which facilities the Contractor will be allowed to use. This privilege will be revoked if the facilities are not left in a clean condition at all times.

## **Site Control**

The Project Manager and Contractor will define who is authorized to enter the construction site. Other personnel desiring access to a construction area must do the following:

Except for emergencies, obtain approval to enter the construction premises from the Contractor's Superintendent, the PDCS Project Manager, Construction Coordinator or emergency personnel.

Obey all safety regulations and special instruction signs, and wear appropriate Personal Protective Equipment (PPE) comparable to the PPE requirements for workers on the project before entering the site.

Access to construction sites shall remain locked at all times unless workers are present. Locks shall not be rendered inoperable to prevent locking. The Construction Coordinator will provide a lock to be used in conjunction with the Contractor lock and chain that will allow UK personnel access into the construction area during an emergency.

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## **Security**

Standard working hours are determined on a project by project basis. If there is any work conducted from 6 PM to 6 AM on a normal weekday or any time on a holiday or on a weekend, the Contractor must inform the Construction Coordinator 24 hours in advance of any afterhours work. The Construction Coordinator will inform the UK Police by sending them an After Hours Report. The Construction Coordinator must have contact information (name and phone number) and the hours of work 24 hours in advance for any afterhours work.

The Contractor shall make sure that all project workers secure their tools and that the project area is locked when no one is on site to avoid potential thefts. Any thefts should be reported to UKPD and the Construction Coordinator.

Some UK offices have “panic buttons” attached to furniture which are used to alert the UK Police Department of problem situations within the office. Contact the Construction Coordinator if an item needs to be removed that has a panic button.

## **Site Health and Safety Plan**

If requested by the PDCS Project Manager, a Site Health and Safety Plan specific to the project shall be submitted 15 days prior to starting any work activity.

## **Storage & Use of Paint and Sealants**

All flammable and combustible materials shall be stored, stacked, and handled with respect to their fire potential characteristics and potential environmental hazards. The Contractor shall check with the Construction Coordinator as many of these items are not authorized to be left on campus when not in immediate use. Many will require additional ventilation so read the MSDS completely prior to use on campus.

No volatile liquids are to be used for cleaning agents or as fuels for motorized equipment or tools within the building without coordination with the PDCS Project Manager and the written consent of Fire Marshal. Bulk storage of volatile liquids is not permitted within a building at any time. The Contractor may be required to implement HEPA and/or negative pressure systems to remove, Volatile Organic Compounds, smoke, fumes, dusts, etc., to prevent exposure to occupants.

## **Site Storm Water Requirements**

Storm Water controls are mandatory if the project involves any exterior work. Concrete trucks are not allowed to wash out their chutes on site unless all of the water is collected and hauled off the jobsite. Painters are not allowed to wash drywall tools or paint brushes in UK sinks or landscape areas.

Absolutely no discharge of any construction related substance(s) will be allowed to flow into the sanitary or storm sewer system.

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## **Temporary Fire Protection**

The Contractor shall review fire prevention and protection needs with the Construction and Safety Coordinators and establish procedures to be followed in the event of fire. The Contractor will instruct personnel in procedures and post warnings and information, maintain unobstructed access to fire extinguishers, temporary fire protection facilities, stairways and other access routes, prohibit smoking in hazardous areas, and provide supervision of welding operations, combustion type temporary heating units, and similar sources of ignition.

The Contractor shall be responsible for providing all equipment and labor necessary to protect students, staff, faculty, and the general public from dangers associated with the contract. This includes providing fire watch and fire extinguishers on the job site.

## **Unsafe Activities or Conditions**

PDCS management has granted authority to its staff to stop an unsafe activity or condition and redirect the Contractor to work in a nonhazardous area until such time as the Contractor abates the hazard. Hazards must be abated as soon as possible after they have been identified. Imminent-hazard activities must be stopped and corrected immediately.

## **UK After Hours Work**

Any work occurring after 6 PM and before 6 AM, Monday through Friday and anytime during weekends. (See Security Requirements)

## **UK Normal Work Hours**

UK's normal working hours are 6 AM to 6 PM Monday through Friday.

## **UK CNS**

Before the Contractor starts demolition activities on the project, he/she will consult with the Construction Coordinator about the removal of any telecommunication ports (usually a white or ivory receptacle), wireless antennas, projectors, or projection screens. The Contractor will not remove any of these items unless directed to do so by UK.

Usually UK CNS will be scheduled to remove these items.

## **Waste Disposal**

All trash and debris must be contained on site and disposed of in a recycling bin or a waste receptacle in accordance with applicable laws and regulations to prevent wind or rain from carrying it off-site into a storm drain. Dumpsters and roll-offs shall be covered during rain events and during non-working hours. Petroleum wastes, such as paint thinner or oil based finishes, must be containerized for recycling or disposal by the Contractor. Never dispose of any type of liquid waste in a dumpster, storm or sanitary sewer

## Safety Observations Correct Behaviors List

### Head

- Workers shall wear hard hats at all times on the job site if required by the Contractor's safety department

### Eyes / Face

- Workers shall wear safety glasses with side shields where designated by signs, site specific or contract requirements.
- Double eye protection shall be worn when grinding, welding, buffing, needle scaling, using a wire wheel, coring, working with hydraulic tools or high pressure hydraulic systems, chop sawing handling chemicals as required by the MSDS.
- Workers shall wear safety glasses and goggles when handling sand bags or working with 3:1 - grit sand, pure sand bags, blowing sand or chemicals as required by MSDS.
- Burning goggles and appropriately tinted welding lenses shall be worn when cutting, burning or welding respectively.
- Welding curtains or shields shall be used to protect other workers and pedestrians.

### Ears

- Hearing Protection shall be worn in designated areas.
- Hearing protection shall be worn when chipping, grinding, arc gouging, concrete ramming, operating loud equipment, or any time you cannot hear the normal voice an arm's length away from another person.

### Hands

- Leather Gloves or welding gloves shall be worn when performing hot work.
- Leather Glove Protectors shall be worn over electrically rated rubber gloves.
- Leather work gloves shall be worn during demolition of concrete, tile, rubble, etc.
- Leather Gloves shall be worn during shoveling, sledge hammering, pick-axe work, rock bar work or handling wood.
- Puncture and cut resistant gloves shall be used when working with sheet metal, glass and potentially sharp edged materials.
- Vibration reducing gloves shall be worn while jack hammering.
- Chemical resistant gloves shall be worn as directed by the MSDS while exercising caution for compatibility with chemicals.

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- Tear away (Cotton) gloves with leather or protective palms shall be used when working with wire rope and wire rope slings or lifting operations where there is a risk of a glove hanging up on rigging.

## Feet

- ANSI rated steel or composite toe footwear shall be worn any time there is a risk of crushing injury to the toes, heavy/bulky material handling, around forklift and heavy equipment usage.
- Closed toe non-skid hard sole safety shoes shall be worn any time there is a risk of cuts, punctures, scrapes, and uneven terrain.
- Leather safety footwear shall be worn any time around welding or cutting.
- Electrically rated overshoes or boots shall be worn any time energized electrical work is being performed while not using insulated grounding mats.
- Compatible rubber overshoes or boots shall be worn when working with bulk chemicals or chemical process areas. (Check MSDS).

## Clothing

- Long Pants and short or long sleeve shirts shall be worn during normal working conditions.
- Long sleeve flame retardant shirts shall be worn when welding or cutting. No torn tattered clothing will be allowed when welding or cutting.
- When working around exposed belts pulleys, nip, run-in, pinch points or rotating equipment, shirt shall be tucked and there shall be no loose clothing. Long hair shall be tied back and placed up or under garment.
- Pants shall be over boots when performing welding or cutting.
- No Loose jewelry shall be worn when working.
- No jewelry or metal eyewear frames shall be worn when working around electrical hazards.
- Compatible clothing shall be worn when working with chemicals (See MSDS).
- When working around electrical hazards as a qualified person, fire retardant shirts and pants with cotton undergarments shall be worn.
- When performing electrical hot work or working within the approach distance and prohibited boundaries the posted arc flash protection shall be worn.

## Harness

- Workers shall wear a full body harness with double lanyard (100% Tie-Off) when working at 6 feet or higher and not protected by guardrails.
- The lanyard shall be attached to an OSHA rated or equivalent anchor point.



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## **Respirator**

- A respirator shall be worn as directed by the MSDS, when welding or cutting in an enclosed or poorly ventilated area, during spray painting, epoxy flooring, sand blasting, dry grinding/cutting concrete, during lead or asbestos abatement, while processing chemicals as indicted in the MSDS.
- A dust mask shall be worn as directed by the MSDS, worn when sanding, grinding, using consumable cutting disks, installing fiberglass insulation, during demolition work involving insulation dust, sheet rock, and silica, dry cutting tile concrete or stone, and chipping stone during masonry operations in well ventilated areas.

## **Safety Vest**

- A Safety vest shall be worn any time within a traffic control zone or within 18 feet of a shoulder of a roadway or in the roadway.
- During any flagging operations whether in a traffic control zone or within a construction site.

## **Site Control**

- Each construction site or any area affected by a construction site, e.g., Electrical, mechanical rooms, floors above and below the construction site where the construction site has migrated to, shall be secured from unauthorized entry any time that an employee or worker is not on site.
- Positive barriers shall be provided to keep unauthorized Workers out of the construction areas.

## **Traffic Control**

- Traffic control shall follow the Federal / Kentucky manual of uniform traffic control.
- Pedestrian traffic control shall provide clear detour directions for redirection of pedestrian traffic and shall not redirect pedestrians into hazardous situations or roadways. These controls shall be positive and not allow pedestrians to enter traffic control zones.
- Advance notice shall be given for alteration of ADA routes and parking
- Alteration of fire and emergency egress routes require approval from the Fire Marshal.

## **Environmental**

- Storm and sewer drains shall be protected with silt fencing and sand bags during construction activities.
- Silt fencing shall be provided at storm water run-off points for outdoor construction areas when top soil is disturbed or where there is a risk of contamination from leaking equipment.
- Dumpster and roll-off containers shall not leak fluids and shall be covered during rainy weather and at the end of the day or final shift.
- No discharge of any kind is allowed on UK or surrounding property.

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- Equipment wash down is not allowed and must be contained.
- Concrete wash down and spoils are not allowed at any time on campus.
- Pressure washing run-off shall be contained and removed.
- Excessive dust, odors, smoke or fumes may require HEPA filtration, local exhaust or negative pressure systems.

## **Signage**

- The required project, safety signage and tags shall be implemented and displayed as specified.
- Signs shall be placed at all construction area entry points and areas affected by the construction project, i.e., electrical and mechanical rooms or floors above and below the construction site where the construction site has migrated. Portable signage may be used for mobile short duration construction activity.

## **Climbing**

- Workers shall maintain three-point contact at all times when climbing up or down.
- Workers shall not jump from platforms, ladders or scaffold, etc.
- Workers shall not climb on moving parts at any time or unsecured structure without fall protection. The Contractor shall verify that the structure is load rated prior to climbing.

## **Ladders / Stairways**

- All ladders must be on a scheduled inspection scheme and inspected prior to use.
- Wooden ladders are not allowed on UK projects.
- Extension ladders shall be tied off or secured to a structure prior to use when not held in place by another worker.
- Workers shall maintain three-point contact at all times when climbing up or down
- Workers shall face the ladder when ascending and descending the ladder.
- The belt buckle shall remain in the frame rails at all times.
- Workers shall not carry tools up or down a ladder and should use a helper or hand-line.
- Ladders used in pedestrian or vehicle traffic areas shall be coned off and barricaded with signs posted in blind areas/other side or doors warning of ladder usage in order to prevent worker from being knocked off or ladder being knocked over.
- Extension ladders shall be set at a 4:1 or 75 degree ladder angle.
- The proper ladder shall be used for the job.

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- Fall protection shall be used greater than 6 feet, if work cannot be performed while facing the ladder or working with buckle within the rails of the ladder.
- Workers shall keep one hand on the handrail when ascending or descending stairs.
- Stairways shall be kept unobstructed.

## Walkways

- Walkways shall be designated and free from obstructions, slip and trip hazards. A Trip Hazard is a change in grade of ½" or greater.
- Workers shall walk in designated walkways.
- Extension cords shall cross walkway as few times as possible and shall have ramps, cord protectors or be taped down.
- Plywood, chip board and Masonite protectors shall be secured to prevent warping.
- Trip hazards that cannot be avoided shall be identified with brightly colored paints or flagging tapes.

## Housekeeping

- Work areas shall be kept clean and orderly at all times.
- They shall be free from rags, soda cans/bottles, spent containers of mud, paint, caulk, wood, tile, rubble, cardboard, steel, etc. All construction debris shall be promptly removed daily.
- Stair wells and electrical rooms shall not be used for storage.

## Scaffold

- Scaffolds shall be OSHA approved, inspected and tagged prior to use.
- Workers shall access scaffold by a designated ladder only.
- All Workers working from the scaffold shall have scaffold awareness training.

## Tools

- Use the correct and proper tool for the job.
- GFCI's are required on all extension cords.
- Extension cords shall be 14 gauge heavy duty.
- All high pressure hoses with crow's feet shall be pinned with safety clips or tied with safety wire.
- Check valves and backflow preventers shall be installed on cutting rigs.
- Use tools and equipment in the manner they were designed.

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- Tools and equipment shall be on a scheduled inspection system and shall be kept in good working condition and inspected prior to use.
- No nicked or damaged insulation on extension and power cords or welding leads 10 ft. from electrode holder.
- No leaking equipment.
- No makeshift tools. All shop made tools shall be certified by a registered engineer.

## **Guarding**

- Guards shall remain in place on all tools and equipment while in use.
- Guards shall remain in place and be used for all saws, grinders, belts, pulleys, etc.
- Exposed electrical circuits and energized electrical equipment shall be guarded and tagged to protect unqualified workers.
- All unprotected edges, hatchways, skylights, holes or troughs in floors shall be guarded.

## **Lock - Out / Tag-Out (LOTO)**

- Lock- Out / Tag-Out procedures shall be followed for controlling hazardous sources of energy.
- Breakers rendered inoperable shall be tagged listing the breakers that are inoperable.
- Breakers that are to remain closed shall be tagged and listed as to not open the circuit.
- Electrical hazards shall be tagged as “Electrical Hazard”
- Electrical systems being tested shall be “tagged testing in progress”.

## **Hand Position**

- Hands shall be positioned to stay out of hazard areas, pinch and crush points.
- Hands shall be placed to achieve the best leverage and avoid repetitive stress.
- Hand tools shall be used in an ergonomically neutral position.

## **Body Mechanics / Position**

- Workers shall keep their body square their work and face it if possible, except for throwing electrical switches, adjusting pressure regulators or opening and closing valves, Worker shall stand to the side.
- Keep body parts out of pinch/crush zones.
- Workers shall stand free of the bight of cable, rope, tag lines and never wrap any part of their body in a rope.
- Workers shall stand free from the line of fire from winch lines, tugger lines, blocks, pressure releases or flying debris.

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- Workers shall alternate on strenuous activities with heavy equipment, i.e., jack hammering, etc.

## **Physical Lifting**

- Plan your lift and have a clear path when transferring loads.
- Check weight of the load prior to lift. Do not jerk the load.
- Keep feet shoulder width apart.
- Keep body close to load.
- Keep you back straight when lifting.
- Lift with your legs, not your back.
- Do not twist while lifting, pulling, or carrying a load.
- Consider two-person lifting when possible.

## **Pinch Points**

- Workers shall never pass under an unsupported suspended load.
- Workers shall always have a clear escape route when lifting with cranes.
- Workers shall remain clear of run-in and nip points.

## **Tag Lines**

- Tag Lines shall be used on loads being moved by a crane.
- Tag Lines shall be free from knots.
- Tag lines shall not be wrapped around any part of your body.
- Tag Lines shall be long enough to prevent workers from standing under the load while holding the tag line.

## **Rigging**

- Use the correct load rated slings for the lift. Safe working load limits tags shall be in place on sling.
- All shackle pins shall be pinned with safety pins/wire.
- Slings and knots shall be used according to best practice.
- Slings and rigging shall be on an inspection program and inspected before use.
- Any free leg shall be shackled back to the live leg.
- Any shop made rigging shall be certified by a registered engineer.

## Hand Signals

- Only one person shall be designated to give hand signals.
- A hand signal chart shall be located on the crane and job site.
- Crane operator shall always maintain eye contact with signal person.
- Anyone can give the emergency stop signal.

## Storage

- All materials, tools and equipment shall be neatly and safely stored.
- Stored materials shall be barricaded, shall not block walkways, stairwells and egress routes and shall not create a fire or egress hazard.
- Stairwells and Electrical rooms shall not be used for any storage.

## Emergency Numbers:

- **University Police: dial 911 from any campus phone or  
(859)257-UKPD (8573): FREE CELL PHONE CALL: #8573 (#UKPD)**
- **UK Delta Room: (859) 257-2830 or (859) 257-3844**
- **Emergency Management Office: (859) 257-3815**
- **Building Emergency after regular working hours: (859) 257-3844**
- **UK - Planning, Design and Construction Services (PDCS):  
(859) 257-2726 Fax (859)323-3287**
- **UK Parking & Transportation Services: (859) 257-5757**

AFFIDAVIT

Comes the affiant and after having been duly sworn states as follows:

1. That affiant is the contractor awarded a contract by the University of Kentucky on **Project #2771.0 Wethington Suite 327 Modifications**
2. That all contractors and subcontractors employed, or that will be employed, under the provisions of this contract are in compliance with Kentucky requirements for Workers' Compensation Insurance according to KRS Chapter 342 and Unemployment Insurance according to KRS Chapter 341.

Further, the affiant sayeth naught.

By: \_\_\_\_\_

Title: \_\_\_\_\_

Contractor: \_\_\_\_\_

State of \_\_\_\_\_)

County of \_\_\_\_\_)

Subscribed and sworn to before me by \_\_\_\_\_ on this \_\_\_\_\_

day of \_\_\_\_\_, 2024.

My commission expires \_\_\_\_\_

\_\_\_\_\_  
Notary Public, State at Large

**UNIVERSITY OF KENTUCKY  
CAPITAL CONSTRUCTION PROCUREMENT SECTION**

**PERFORMANCE BOND**

Bond Number: \_\_\_\_\_

**KNOW ALL PERSONS BY THESE PRESENTS:**

**WHEREAS**, the University of Kentucky (the “Owner”) and \_\_\_\_\_ (the “Principal”) have entered into a contract for the construction Project #2771.0 Wethington Suite 327 Modifications (the “Project”), with the contract price or amount of \_\_\_\_\_

**WHEREAS**, the Principal is required to furnish a performance bond for the faithful performance of the contract in an amount equal to one hundred percent (100%) of the contract price or amount as it may be increased, executed by a surety company authorized to do business in the Commonwealth of Kentucky, and satisfactory to the Commonwealth; and

**WHEREAS**, \_\_\_\_\_ (the “Surety”), a surety company authorized to do business in the Commonwealth of Kentucky, has agreed to issue such bond.

**NOW, THEREFORE**, for the value received and intending to be legally bound hereby, the Principal and Surety agree to the following terms and conditions of this obligation:

1. **Recitations:** The recitals above are true and substantive parts of this instrument.
2. **Definitions:** The following terms are defined for the purposes of this instrument:
  - (a) **Bond** means this instrument and the terms and conditions of the Contract (as defined herein), both express and implied, which are incorporated herein by reference and constitute a part of this instrument to the same extent and effect as though copied verbatim herein, and are legally binding on the Principal and Surety including the obligations of the Surety provided therein.
  - (b) **Contract** means that certain agreement dated 02/27/2023 for the construction of Project# 2599.0 / UK-2312-23 GS BHU Window Corrections (the “Project”), all documents that comprise the agreement, any documents incorporated therein by reference, and any Contract Changes (as defined herein).
  - (c) **Contract Change** means any change order, change of time, extensions of time, amendment, modification, addition, or other alteration, material or otherwise, to the Contract, the contract price or amount, the work to be performed under the Contract, or the specifications accompanying same.



3. **Guaranty:** The Principal and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to the Owner, as obligee of the Bond, for the full and faithful performance of the Contract and any Contract Changes. The Principal and Surety likewise guarantee the faithful performance of the prevailing hourly wage as set forth in the schedule incorporated into the bid documents unless the Project is exempt from the prevailing wage requirements of KRS 337.505 through 337.550.
4. **Bond Amount:** The bond amount is six hundred thirty-two thousand dollars (\$632,000.00). This amount shall be increased automatically by Contract Changes to the contract price or amount and shall not limit the Surety's obligation or liability under the Bond for paying attorney fees, costs, or other legal expenses incurred by the Owner, which may be in excess of the bond amount as increased.
5. **Defeasance:** Except as provided by the Contract, the Principal and Surety shall have no obligations under the Bond if the Principal during the original term thereof, any extensions thereof which may be granted by the Owner with or without notice to the Surety, the guaranty period, the warranty period, and other periods limited only by statutes of limitation (a) well, truly, and faithfully performs its duties to the Owner; (b) performs the Contract; (c) satisfies all claims and demands incurred under the Contract; (d) fully indemnifies and saves harmless the Owner from all costs, damages, attorney fees, consultant fees, and other expenses that it may suffer by reason of the Principal's failure to do so; and (e) reimburses and repays the Owner all such expenses and outlay, without limitation, which the Owner may incur in making good any default. The Bond will otherwise remain in full force and effect.
6. **Amendment:** The Bond, including without limitation the Bond Amount, will be deemed amended, automatically and immediately without separate or written amendments hereto, upon any Contract Changes. The Principal and Surety agree to be bound by any Contract Changes. The Surety waives notice of any Contract Changes.
7. **Interpretation:** The Bond will be interpreted and enforced in accordance with Kentucky law. The Principal and Surety agree that they have taken part in drafting the Bond, which will not be construed against or in favor of any other party on the basis of drafting. To the extent that this instrument contradicts the Contract, the Contract will control.

**IN WITNESS WHEREOF**, the Principal and Surety, by their duly authorized representatives, have executed this instrument, which is effective as of \_\_\_\_\_.

ATTEST:  
WITNESSES:

\_\_\_\_\_  
Contractor.

\_\_\_\_\_  
Witness as to PRINCIPAL

\_\_\_\_\_  
By

\_\_\_\_\_  
Witness as to PRINCIPAL

\_\_\_\_\_  
Title

ATTEST:  
WITNESSES:

\_\_\_\_\_  
Surety

\_\_\_\_\_  
Witness as to SURETY

\_\_\_\_\_  
By

\_\_\_\_\_  
Witness as to SURETY

\_\_\_\_\_  
Attorney-in-Fact

SAMPLE

AGREEMENT BETWEEN  
UNIVERSITY OF KENTUCKY  
AND  
CONTRACTOR

THIS AGREEMENT, made the \_\_\_\_\_ day of \_\_\_\_\_ 2024 by and between \_\_\_\_\_ ("Contractor"), and the UNIVERSITY OF KENTUCKY, ("Owner"), is to bind the parties hereto to the principles and terms set forth herein, and shall be binding upon the parties hereto.

WITNESSETH, that the Contractor and Owner for the consideration hereinafter named, agree as follows:

ARTICLE No. 1 SCOPE OF WORK:

The Contractor shall furnish all of the labor, materials, fixtures, furnishings, equipment, transportation, construction, plant, and facilities required for and shall perform all Work on the Project and shall furnish and do everything required by the Contract Documents

PROJECT: Project #2771.0 Wethington Suite 327 Modifications

The Scope of Work consists of the Request for Proposals, the Contractor's Financial Proposal including Addenda, the Contractor's Financial Proposal, the General Conditions, the Special Conditions, the Contractor's Bonds and Insurance and Affidavit, the Specifications, the Drawings including Supplemental Drawings and Change Orders issued after execution of the Contract for the Work described in Article No. 1 of this Agreement, all of which are incorporated in and made a part thereof of reference, and which shall be binding upon the Contractor and Owner.

The Project Manual for this Work includes the specifications and drawings prepared by University of Kentucky Facilities Engineering Dated 12/14/2023.

ARTICLE No. 2 TIME OF COMPLETION:

The Contractor must begin Work specified by the written Work Order from the Owner. Substantial Completion shall be thirty (30) consecutive calendar days after the stipulated commencement date with Final Completion being thirty (30) consecutive calendar days after the date of Substantial Completion.

ARTICLE No. 3 LIQUIDATED DAMAGES:

It is mutually understood and agreed by and between the parties hereto that time is of the essence in the performance of this contract and that the Owner, the University of Kentucky, will sustain substantial monetary and other damages in the event of a failure or delay by the Contractor in the

completion of the Work. It is further understood and agreed upon and made part of this Contract that the Work must be begun, performed, and completed without delay by the Contractor and if the Contractor fails to begin, perform without interruption, and complete said Work in due and proper time, the Contractor may be declared in default of this Agreement. If the Work is not substantially complete within the time required in Article No. 2 of this Agreement, the Contractor shall pay to the Owner, as liquidated damages for delay and not as a penalty, the sum of **two hundred dollars (\$200.00)** for each and every day after the date of Substantial Completion until the date of actual Substantial Completion.

If the Work is not finally completed within the time required in the preceding Article No. 2 of this Agreement, the Contractor shall pay to the Owner, as liquidated damages for delay and not as a penalty, the sum of **One Hundred Dollars (\$100.00)** for each and every day after the date of Final Completion until the date of actual Final Completion. In no event shall liquidated damages for delay in Final Completion be due before the date required for Final Completion in Article No. 2 of this Agreement.

This provision for liquidated damages is intended to compensate the Owner for delay only and shall not preclude the Owner from making claims for other damages.

If the Work is not commenced by the Contractor at the time specified in Article No. 2 of this Agreement, then the Contractor and its surety or sureties shall be liable for and pay to the Owner all damages sustained by reason of such failure or breach of contract and the Owner may immediately relet the Work.

#### ARTICLE No. 4 THE CONTRACT AMOUNT:

Subject to additions and deductions for Change Orders made in accordance with the Contract Documents, the Owner shall pay the Contractor as full consideration for the Contractor's satisfactory performance of the Contract obligations the sum of \_\_\_\_\_, subject to the conditions specified in section 7.1.2 of the Request for Proposals.

#### ARTICLE No. 5 SPECIAL NOTICE:

The Contractor hereby certifies that it is fully informed of the conditions relating to construction and labor under which the Work under this Agreement is to be performed, and agrees that it shall employ, methods and means in carrying out the Work so as not to interfere with or interrupt the Work of any other Contractor working on/or adjacent to the site for this Work.

IN WITNESS WHEREOF this Agreement is executed on the date and year first herein before written.

WITNESS:

CONTRACTOR: \_\_\_\_\_

\_\_\_\_\_

BY: \_\_\_\_\_

\_\_\_\_\_

Title: \_\_\_\_\_

Approved for Legality and Form

Recommended By:

APPROVED: \_\_\_\_\_

\_\_\_\_\_  
Kevin Locke  
AVP, Capital Project Management Div.

UNIVERSITY OF KENTUCKY

By: \_\_\_\_\_  
Eric Monday  
EVP for Finance and Administration

SAMPLE