ADDENDUM NO. 1
ISSUE DATE: July 7, 2023

RE: LAW BUILDING
4TH FLOOR RENOVATION
UNIVERSITY OF WISCONSIN - MADISON
MADISON, WISCONSIN

UW-Madison Project No. 0430-2209 / UWSA Project No. A-22-003

BID OPENING for MEP BIDDERS: 2:00 P.M., July 18, 2023
BID OPENING for GENERAL PRIME CONTRACTOR BIDDERS: 2:00 P.M., August 1, 2023

FROM: Dorschner|Associates, Inc.
122 W Washington Avenue, Ste. 100
Madison, WI 53703
608.204.0777

TO: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Contract Documents dated June 9, 2023 as noted below. Acknowledge receipt of this Addendum by inserting the number and issue date of this addendum in the blank space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of 2 pages and the following attached documents: Division 01 – General Requirements, pages GR-1 through GR-16.

30”X42” Drawings: G100, G201, D204, D303, D304, A204, M000, M102, M801, E-122, E-601, E-801

CHANGES TO BIDDING REQUIREMENTS:
1. None

CHANGES TO CONDITIONS OF THE CONTRACT:
2. Division 01 – General Requirements
   a. Replace Division 01 – General Requirements in its entirety with the revised Division 01 – General Requirements.
   b. Add Article 32. Abatement Protection.
   c. Revise following Article numbers accordingly.

CHANGES TO SPECIFICATIONS (DIVISIONS 2 THRU 33):
3. Section 23 82 00 HEATING AND COOLING TERMINAL UNITS
   a. Page 23 82 00-2, Line 62, add “Fan Coil Noise Level shall not exceed NC 30 within the space it serves”.

CHANGES TO DRAWINGS:
4. Sheet G100 – COVER SHEET
   a. Replace sheet G100 in its entirety with revised sheet G100.
   b. Modified Project Location map.
   c. Updated rendering.

5. Sheet G201 – SYMBOLS AND ABBREVIATIONS
6. Sheet D204 – FOURTH FLOOR DEMOLITION PLAN
   a. Replace sheet D204 in its entirety with revised sheet D204.
   b. Revised Demolition Floor Plan General Note 4.
   c. Revised Demolition Plan Key Note 15.

7. Sheet D303 – THIRD FLOOR REFLECTED CEILING DEMOLITION PLAN
   a. Replace sheet D303 in its entirety with revised sheet D303.
   b. Revised Demolition Plan Key Note 15.

8. Sheet D304 – FOURTH FLOOR REFLECTED CEILING DEMOLITION PLAN
   a. Replace sheet D304 in its entirety with revised sheet D304.
   b. Revised Demolition Plan Key Note 15.

9. Sheet A204 – FOURTH FLOOR AND PARTIAL FIFTH FLOOR PLAN
   a. Replace sheet D204 in its entirety with revised sheet D204.
   b. Added Fire Wall Rating delineation.

10. Sheet M000 – SYMBOLS & ABBREVIATIONS - HVAC
    a. Replace sheet M000 in its entirety with revised sheet M000.
    b. In Abbreviations schedule revise “F” to indicate “Fire Damper”.

11. Sheet M102 – FOURTH FLOOR DEMOLITION PLAN - HVAC
    a. Replace sheet M102 in its entirety with revised sheet M102.
    b. Revise Keyed Note #6.

12. Sheet M801 – SCHEDULES - HVAC
    a. Replace sheet M801 in its entirety with revised sheet M801.
    b. On Fan Coil Schedule, Add Remark 1.

    a. Replace sheet E-122 in its entirety with revised sheet E-122.
    b. Relocate copier outlets and outlet above counter to coordinate with elevation 10/A800.

14. Sheet E-601 – ELECTRICAL SCHEDULES
    b. Lighting Fixture Schedule – for type D, change finish to WHITE.

15. Sheet E-801 – ELECTRICAL SYSTEMS WIRING DIAGRAMS
    a. Replace sheet E-801 in its entirety with revised sheet E-801.
    b. Add note to detail 5/E-801: “See sheet A850 for typical ceiling conditions at beams and walls. Conduits must run concealed within space available. Routing planning is critical. Provide routing plans as shop drawings.”.

END OF ADDENDUM

Dorschner|Associates, Inc. For The Board of Regents Of The
122 W Washington Ave, Ste. 100 University of Wisconsin on Behalf of
Madison, Wisconsin 53703 The University of Wisconsin - Madison
C/O UWSA - Capital Planning and
Budget, 780 Regent Street, Suite 239 Madison, Wisconsin 53715
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1. DEFINITIONS

In this document, the following terms are defined as:

(a) "Mechanical, electrical, or plumbing subcontractor" (“MEP Subcontractor”) is a contractor that performs mechanical (Heating, Ventilating, and Air Conditioning), electrical, plumbing, or fire protection (fire suppression) work for the Project, and enters into a contract with the General Prime Contractor to perform their division of work.
(b) "Qualified bidder" means a contractor that DOA certifies under Wis. Stat. s. 16.855(9m)(b)1.

(c) "Qualified responsible bidder" means a contractor who is a Qualified bidder and who is a Responsible bidder.

(d) "Responsible bidder" means a contractor that DOA certifies under Wis. Stat. s. 16.855(9m)(b)2.

(e) "Single prime contracting" means bidding and contracting through a process in which only a general prime contractor has a contractual relationship with the Owner and all mechanical, electrical, or plumbing subcontractors are identified by the Owner and are subcontractors to the General Prime Contractor.

(f) "General Prime Contractor" is a contractor that enters into a contract with the Owner to perform all work as required by the Contract Documents and enters into contracts with subcontractors including MEP Subcontractors identified by the Owner.

(g) "Non-MEP Subcontractor" is a subcontractor to a General Prime Contractor in divisions of work other than mechanical, electrical, plumbing, and fire protection. This includes suppliers and installers to the General Prime Contractor.

(h) "Subcontractor "is all subcontractors on a project. This includes MEP Subcontractors, subcontractors to the MEP Subcontractors, and Non-MEP Subcontractors.

(i) "Contractor" is all contractors working on a project regardless of contractual relationship. This includes the General Prime Contractor, MEP Subcontractors, Non-MEP Subcontractors, and all Subcontractors, regardless of tier of subcontract.

2. GENERAL

All articles in these General Requirements are applicable to all Divisions and Sections of the Work included herein. The Conditions of the Contract, General and Supplementary General Conditions, and these General Requirements shall apply with equal force and effect to the General Prime Contractor and all Subcontractors engaged in this work.

Contractor or the Contractor's authorized representative must be present to accept delivery of all equipment and material shipments. The Owner will not knowingly accept, unload or store anything delivered to the site for the Contractor's use. Inadvertent acceptance of delivered items by any representative or employee of the Owner shall not constitute acceptance or responsibility for any of the materials or equipment. It is the Contractor's responsibility to assume liability for equipment or material delivered to the job site.

3. SPECIAL SITE CONDITIONS

Confine all operations, equipment, apparatus and storage of materials, to the immediate area of work to the greatest possible extent. Contractor shall ascertain, observe and comply with all rules and regulations in effect on the project site, including but not limited to parking and traffic regulations, use of walks, security restrictions and hours of allowable ingress and egress. Any special traffic control during construction involving lane closures shall be in accordance with the federal standard, Manual of Uniform Traffic Control Devices.

The Contractor shall take all measures necessary to become acquainted with the location of underground service, utilities, structures, etc., which may be encountered or be affected by the Contractor's work, and shall be responsible for damage caused by neglect to provide proper precautions or protection. As a minimum to become acquainted with such underground appurtenances, the Contractor shall: 1) Observe existing conditions visible at the site immediately prior to commencement of work; 2) Review available site plans incorporated in the contract documents and/or provided by the Owner; 3) Final check with the Owner for additions to or changes from conditions indicated on site plans for the facility; and 4) Obtain input from the "one-call system", the organization composed of all suppliers of utilities/services to or from the site.

Information pertaining to existing conditions that are described in the specifications or appear on the drawings, is based on available records. While such data has been collected with reasonable care, there is no expressed or implied
guarantee that conditions so indicated are entirely representative of those actually existing. This information is provided to inform the Contractor of known, existing conditions so that due diligence is taken by the Contractor to avoid damage. Where site observation or documents indicate existing underground utilities/services in close proximity (within four feet horizontally and/or four feet vertically) to necessary new construction work, the Contractor shall be responsible to test, probe or otherwise determine exact locations so as to prevent damage to such utilities/services.

Existing pipes, electrical work, and all other utilities encountered, which may interfere with new work, shall be re-routed, capped, cut off, or replaced by the contractor having jurisdiction, in accordance with the Bidding and Contract Documents.

Any noisy and disruptive activities will need to be coordinated with the Owner and occur before 9am or after 4pm, Monday through Friday or between 6am and 6pm on Saturday or Sunday.

Limit use of premises to work in the areas indicated. Do not disturb portions of the site beyond areas in which work is indicated. General, confine construction operations to areas defined within Project Limits, unless specifically noted or otherwise and/or approved by Owner. Confin storage of materials and support facilities to designated staging areas.

Parking at or near the project site is restricted. Contractor's truck or working vehicles will be permitted to drive on premises only for the purpose of loading and unloading materials and equipment for this project and only if keys are removed and all doors locked when not in use. No Contractor's will be allowed to park inside of the construction fence. Free parking passes will not be provided. Contractors may park remotely and carpool to the project site, or may purchase parking permits as space is available from Transportation Services (www.fpm.wisc.edu/trans). Vehicles in violation of University parking regulations are subject to fine.

Owner will designate an area in a building which can be used by workers for eating lunch and for toilet needs. Toilets used by workers shall be kept clean and sanitary at all times.

All buildings at this site will be occupied during the construction.

To ensure the safety of persons at the University, the following safety measures should be observed:

Contractor shall instruct their workers not to leave any openings in barricades, or to leave tools, equipment, or materials lying around in any area where persons may traverse. Surfaces of barricades, enclosures, etc., must be smooth with no protruding nails or other sharp projections or edges on side toward existing occupied areas, corridors, connecting links, etc.

Outdoor lanes for emergency exit from existing buildings which may lie within or adjacent to new construction area must be kept clear of obstructions at all times.

The Owner reserves the right to occupy and place and install equipment in completed areas of construction. Such placement of equipment and partial occupancy shall not constitute acceptance of the Work. The Owner will prepare a Certificate of Substantial Completion for each specific portion of the work to be occupied before occupancy. Before partial occupancy, mechanical and electrical systems shall be fully operational and required documents and inspections shall be successfully completed. On final completion, the Owner will operate, and maintain mechanical and electrical systems serving occupied portions of the building. On Substantial Completion, the Owner will assume responsibility for maintenance and custodial service for occupied portions of the building.

4. INSPECTION OF SURFACES

Contractor shall obtain complete data at the site and inspect surfaces that are to receive the Work before proceeding with fabricating, assembling, fitting or erecting any work under this contract.

Contractor shall notify the Owner in writing in case of discrepancies between existing work and drawings, and of any defects in such surfaces that are to receive the Contractor's work. The Owner will evaluate the notice and direct what remedial action will be taken.
Starting of work implies acceptance of existing work or the work of others. Removal and replacement of work applied to defective surfaces, in order to correct defects, shall be done at the expense of the Contractor who applied work to defective surfaces.

5. HAZARDOUS SUBSTANCES - ASBESTOS, LEAD AND POLYCHLORINATED BIPHENYLS (PCB’S)

Airborne asbestos fibers, lead, and PCB compounds, if encountered, have been determined to be hazardous to one’s health. Compliance with all possible applicable regulations is the Contractor’s responsibility. Contractor shall not provide or install any product that contains any amount of asbestos or PCB. See General Requirements, CLEANING AND WASTE DISPOSAL for disposal of hazardous waste, if encountered.

ASBESTOS

Contractor’s attention is directed to WAC NR 447, WAC DSS 159 and the Occupational Safety and Health Act (OSHA) in general, part 1926.1101—ASBESTOS in particular. Contractor is responsible for compliance with all applicable regulations when the work includes fastening to or coring through Asbestos Containing Materials (ACM) and disturbance of asbestos containing caulking and mastics. Contractor is responsible for removal and disposal of Category I non-friable ACM that will be disturbed by the work. Unless otherwise indicated, all caulking, sealants, glazing compounds, gaskets, asphalt roofing materials and miscellaneous adhesives are assumed to contain asbestos and are considered to be Category I non-friable ACM as defined in NR 447. Waste material containing Category I non-friable ACM, is regulated as Construction and Demolition (C&D) waste and may be disposed of at a Department of Natural Resources (DNR) approved C&D waste landfill. If Contractor’s work methods cause non-friable ACM to become friable, the Contractor is responsible for the disposal of the friable asbestos waste at a landfill specifically approved by DNR to accept friable asbestos. A copy of the signed waste manifest for the disposal of all friable asbestos waste shall be provided to the Owner prior to request for final payment.

The following building materials have been identified to be ACM.

The University of Wisconsin-System, will contract with the Abatement Contractor under separate contract. General Prime Contractor is responsible for coordinating all abatement work with the Abatement Contractor.

- Carpet Adhesives
- Ceramic Baseboard Tile Grout
- Ceramic Floor Tile Grout
- Ceramic Wall Tile Grout
- Floor Tile
- Fire Door
- Exterior Window Pane Glazing Compound
- Chalkboard
- Stone Wall Partition
- Gray Stone Window Ledge
- Plaster
- Decorative Wall/Ceiling Plaster
- Pipe Insulation
- Pipe Fittings
- Vibration Dampener

Lead Based Paint

Paint is assumed to contain lead. Conform to OSHA and EPA recommended worker safety requirements when removing lead based paint or material bearing lead based paint or material contaminated with lead by the demolition process. Contractor’s attention is directed to the Occupational Safety and Health Act (OSHA) in general and particularly to 29 CFR 1910 (LEAD STANDARD) and to CFR 1926 (LEAD EXPOSURE IN THE CONSTRUCTION INDUSTRY). Dispose of refuse containing lead based paint or contaminated with lead by the demolition process in conformance with State of Wisconsin Hazardous Waste Regulations set forth by the Department of Natural Resources and in conformance with OSHA and EPA recommended worker safety requirements.
PCB’S
Contractor’s attention is directed to Wisconsin Administrative Code, Chapter NR 157 relative to PCB’s. Refer to Division 26, Electrical within these specifications for work involving PCB’s.

6. SOIL TEST BORINGS
Not applicable to this project.

7. MUTUAL RESPONSIBILITY
Contractor(s) shall coordinate the work with adjacent work and shall cooperate with all other contractors to facilitate the general progress of the work. Each contractor shall afford all other contractors every reasonable opportunity for the installation of their work and for the storage of their material. In no case will the Contractor(s) be permitted to exclude from the premises or work, any other Contractor or employees thereof, or interfere with any other Contractor in the executing or installation of their work.

Contractor(s) shall arrange the work and dispose of materials so as not to interfere with the work or storage of materials of others and each shall join their work to that of others in accordance with the intent of the drawings and specifications. All Contractors shall work in cooperation with the General Prime Contractor and with each other, and fit their work into the structure as job conditions may demand. All final decisions as to the right-of-way and run of pipe, ducts, etc., shall be made by the Owner at prearranged meetings with responsible representatives of the Contractors involved.

8. PROJECT MEETINGS
Project meetings will be held at the time designated by the Owner. Contractor, when requested, shall attend these meetings. If the principal of the firm does not attend meetings, a responsible representative of the Contractor who can bind the Contractor to a decision at the meetings shall attend.

The Architect/Engineer or a representative thereof will write a report covering all items discussed and decisions reached and copy of such report distributed to all parties involved.

9. SLEEVES AND OPENINGS
Each Contractor requiring sleeved openings shall furnish all sleeves required for their penetrations whether or not they responsible for providing the respective openings. Contractors furnishing sleeves to others for installation shall do this in a timely manner so as not to impede the project schedule.

Openings shown on the structural and/or architectural drawings shall be the responsibility of the General Prime Contractor. Sleeves furnished by other contractors for openings shown on the structural and/or architectural drawings shall be installed by the General Prime Contractor.

Openings that are required and are not shown on the structural and/or architectural drawings shall be the responsibility of the contractor requiring the openings. The contractor requiring the opening shall install sleeves for these openings or cut openings as needed (including floor openings within chases).

Individuals skilled in such work shall accomplish installation of sleeves and openings.
Each Contractor shall be responsible for coordinating locations of their sleeves with work of other contractors.

Each Contractor who requires sleeves and/or openings shall submit through the Contractor, to the Owner for review and approval, layout drawings of all such required sleeves and/or openings. Sleeve and opening layout drawings shall be received by the Owner a minimum of two weeks prior to installation of the sleeves and openings. Sleeve and opening sizes and locations shall be dimensioned from column lines and floor elevations or from a point of reference approved by the Owner.

10. CUTTING AND PATCHING
Cutting and patching required to access work in existing walls, in chases, above inaccessible ceilings, below floors, etc., shall be by the Contractor who requires the access, unless shown on the bid documents otherwise or noted otherwise.
The Contractor shall do all cutting, or fitting of the work as required to make its several parts fit together, or to receive the work of others, as shown or reasonably implied by the drawings or specifications, or as may be directed by the Owner. Holes cut in exterior walls and/or roofs shall be waterproofed.

The Contractor who cuts shall also be responsible for patching. Where cutting and patching is required, the Contractor shall hire individuals skilled in such work to do cutting and patching.

The Contractor who removes or relocates building components which leaves a remaining opening shall be responsible for patching the opening.

Patching includes repairing openings to match adjacent construction and painting the surface to match existing. Painting means covering the entire wall where patching is to be done to nearest break point or corner unless indicated to be done by other contractors.

Contractor shall not endanger any work by cutting, digging or otherwise and shall not cut or alter the work of others without their consent.

Do not pierce beams or columns without permission of the Owner and then only as directed in writing. If any ductwork, piping, conduit, etc. is required through walls or floors where no sleeve has been provided, use a core drill or saw cut to prevent damage and structural weakening.

Wherever any material, finish, or equipment, is damaged, the skilled contractor shall accomplish the repair or replacement, in that particular work and the cost shall be charged to the party responsible for the damage.

11. MANUFACTURER'S DIRECTIONS
Contractors shall apply, install, connect, erect, use, clean and condition manufactured articles, materials, and equipment as recommended by the manufacturer, unless specified to the contrary. The manufacturer's latest recommendations at the time of bidding shall be used.

12. LAYOUT
The General Prime Contractor shall immediately upon entering the site for purpose of beginning work, locate general reference points and take such action as is necessary to prevent their destruction. Each Contractor shall lay out its work and be responsible for all lines, elevations and measurements of the building and other work executed under its Contract. Each Contractor must exercise proper precaution to verify dimensions on the drawings before laying out work and will be held responsible for any error resulting from failure to exercise such precaution.

Using datum furnished by the Owner, the lot lines and present levels have been established as shown on the drawings. Other grades, lines, levels and benchmarks, shall be established and maintained by each Contractor, who shall be responsible for them.

As work progresses, the General Prime Contractor shall lay out on forms and floor, the locations of all partitions, walls and fix column centerlines as a guide to all contractors.

The General Prime Contractor shall make provision to preserve property line stakes, benchmarks, or datum point. If any are lost, displaced or disturbed through neglect of any Contractor, Contractor's agents or employees, the Contractor responsible shall pay the cost of restoration.

Each Contractor shall verify grades, lines, levels, locations and dimensions as shown on drawings and report any errors or inconsistencies to the Owner before commencing work. Starting of work by each Contractor shall imply acceptance of existing conditions.
13. SUPERVISION
The General Prime Contractor shall take complete charge of the work under this contract and coordinate the work of all contractors on the project.

14. FIELD OFFICES
Not required.

15. STAIRS AND SCAFFOLDS
The General Prime Contractor shall:
Furnish and maintain equipment such as temporary stairs, fixed ladders, ramps, chutes, runways and the like as required for proper execution of work by all contractors, and shall remove them on completion of the work.
Erect permanent stair framing as soon as possible. Provide stairs with temporary treads, handrails, and shaft protection.
Contractors requiring scaffolds shall make arrangements with the General Prime Contractor, or shall provide their own and remove them on completion of the work. Each Contractor shall underlay its interior scaffolds with planking to prevent uprights from resting directly on the floor construction.

16. HOISTS, ELEVATORS OR CRANES
Each separate contractor shall provide and pay for its own hoist/crane or other apparatus necessary for unloading/setting or moving their equipment and materials. Installation and removal of equipment for this activity must be accounted for in the Project Schedule.
Equipment and operations for this activity shall comply with applicable Department of Safety and Professional Services and OSHA requirements. No material hoist may be used to transport personnel unless it meets Department of Safety and Professional Services and OSHA requirements for that purpose.
Contractors shall provide any protection required, temporary or long term, to prevent damage to work in place or in progress. When hoisting activity results in such damage, the responsible contractor shall pay for cleaning, repair or replacement of material or equipment as determined by the Owner.
Equipment, that imposes loads of any kind on work in place, shall not be erected without agreement from the Owner.
At their own discretion, two or more contractors may agree to use common hoisting facilities. Under such arrangements, the allocation of costs, access and scheduling and all other details of the agreement are the responsibility of the contractors involved.
Existing elevators may be used on a limited basis with the Owner’s permission and agreement. Costs of warranty extensions and additional service work required will be paid by the using contractor. Appropriate protection must be provided by the using contractor and that contractor shall be responsible for any structural, mechanical or finish damage to the elevator and its parts and to adjoining building finishes and components.

17. SIGNS
No project sign required.
No individual advertising signs, plaques or credits, temporary or permanent, will be permitted on the building or premises, except the name of the Contractor on Contractor’s office or material shed.

18. FENCE
Construction Staging Areas/Materials Storage Areas: the Owner will assign required Construction Site Staging Areas and Material Storage Areas as required on this project. The General Prime Contractor shall provide an eight-foot (8’-0”) high, temporary chain-link construction fence around the site construction staging/material storage areas as required to secure the staging area(s) and construction materials stored on site. Contractor shall construct of standard studded T-
Posts of sufficient length for line posts and spaced not to exceed 8'-0" apart. Corner posts and gate posts are to be
galvanized steel pipe of not less than 2 1/2" o.d. and shall be properly braced. Note: Plastic fencing or wooden snow
fence is not acceptable. Provide gates, properly constructed and braced, complete with hinges, hasps, and padlocks in
number and location required for proper control, delivery and distribution of material and equipment. Gate posts shall
be adequately back tied and anchored to insure a rigid installation. All protective fencing shall be maintained in an
upright, orderly fashion throughout the construction schedule.

19. ROADWAY
Not applicable to this project.

20. TOILETS
The General Prime Contractor shall arrange with Owner to use existing toilet facilities at building site. Toilets used by
workers shall be kept clean and sanitary at all times.

21. TELEPHONES
It is expected that each contractor have access to their own cell phone for their own use. No additional telephone service
will be provided.

22. WATER SUPPLY
The General Prime Contractor shall arrange with the Owner to use nearby existing water service.
Toilets and slop sinks used by workers shall be kept clean and sanitary at all times.
The General Prime Contractor shall supply water required for construction and other purposes from the existing
building plumbing system.
The General Prime Contractor shall prevent waste of water and shall maintain valves, connections, and hoses in
perfect condition, at all times. Contractors shall provide their own hose or piping from hose bibs.

23. TEMPORARY ELECTRICAL WORK
The existing 208Y/120 volt service is being replaced and the existing lighting and receptacles are being removed
throughout the building. Provide a temporary 200 ampere, 208Y/120 volt service to serve lights and receptacles while
the existing service is unavailable. Pay utility charges for service. Provide temporary lighting and receptacles throughout
the construction area.

If a Contractor contemplates the use of equipment that requires a different voltage or greater capacity than that specified,
then that Contractor must arrange with utility for this additional service and pay for installation of the service and the
necessary additional switches and wiring required.

The Electrical Contractor shall provide, at no cost to others, all lamps, wiring, switches, sockets and similar equipment
required for temporary system until substantial completion. Upon completion of the project, the Electrical Contractor
shall remove the temporary system.
The temporary lighting system shall be sufficient to enable all contractors to safely complete their work and to enable the
Owner to check all work as it is being done. Illumination shall be 5 foot-candles minimum in all areas and, in addition,
shall meet or exceed the requirements of 29 CFR 1926.56 Illumination (OSHA regulations).

In accordance with the latest issue of the National Electrical Code, all temporary electrical circuits for construction
purposes shall be equipped with combination ground fault interrupter and circuit breakers meeting the requirements of
UL for Class A, Group 1 devices. The ground fault interrupter portion shall be solid state type, insulated and isolated
from the breaker mechanism. A test button shall be provided for checking the device. The breaker mechanism shall
provide overload and short circuit protection and shall be operated by a toggle switch with overcenter switching
mechanism so that contact cannot be held closed.
All contractors shall furnish their extension cords and lamps other than those furnished for general lighting.

All contractors and other separate Contractors shall be allowed to use the service provided for general lighting and fractional horsepower hand tools at no cost.

The General Prime Contractor shall be compensated by those requiring three phase and single-phase energy used for equipment other than fractional horsepower hand tools. Arrangements shall be made with the General Prime Contractor before construction equipment is used.

24. COLD WEATHER PROTECTION
All heating and protective covering, required to protect the work from injury due to freezing and moisture during the construction period and prior to enclosure of the building, shall be classed as COLD WEATHER PROTECTION. Such protection shall be provided and paid for by the General Prime Contractor.

Heat required to protect materials from injury due to freezing during the construction period and prior to enclosure, shall be provided by means of portable heating units intended for this purpose.

All heating units must be approved types. Proper ventilation must be provided. The use of temporary units whose product of combustion will damage fresh concrete, mortar or other building materials, will not be allowed. Use of coke or oil salamanders is prohibited.

If electrical power is required for oil or gas portable heating units, it may be taken from the available temporary power source and paid for by the General Prime Contractor.

Heating units and the area surrounding the units shall be kept in a clean and safe condition.

25. ENCLOSURE
The General Prime Contractor should provide approved translucent material for temporary enclosure of exterior wall openings if they have not received final louvers. Plain or reinforced polyethylene film or other suitable translucent material will be acceptable, provided it is installed in or on a well fitting rigid wood frame and kept in good repair. This means of temporary enclosure shall be used for other minor openings in walls.

At the end of day's work, securely close temporary enclosures. Padlock work area doors. The General Prime Contractor shall supervise the effectiveness of enclosures.

26. TEMPORARY HEAT
All heating required after enclosure of the building up to substantial completion shall be classified as TEMPORARY HEAT. Enclosure is defined in the preceding Article.

It shall be the responsibility of the General Prime Contractor to see that every precaution is used to prevent unnecessary escape of heat.

For installations that are not connected to central plant steam or central plant hot water, the General Prime Contractor shall pay the fuel costs for temporary heat for both permanent heating systems used for temporary heat and/or temporary heating systems used for temporary heat.

The General Prime Contractor shall pay for all electrical energy consumed for temporary heat.

The Mechanical Contractor shall provide one of the following systems or a combination thereof, for furnishing temporary heat:
Permanent heating system may be used for temporary heating. If permanent system is used, the Mechanical Contractor shall install in their permanent location heating coils or connectors as approved by the Owner, with controls to maintain temperatures required. Temporary filters shall be used in the permanent system. Provide bases, shields, etc., around heating elements to prevent too rapid drying of adjacent concrete, masonry or plaster. Relocation of some of the permanent heating system equipment may be required during construction to prevent interference with new construction. Temporary units may be installed in such areas during the time permanent equipment is not operating due to relocation.

The distribution piping of the permanent heating system may be utilized for supply and return to unit heaters on each floor in lieu of temporary piping, provided approved connections, controls and protection of such piping is maintained.

If the permanent air system is used during temporary heating period, temporary filters shall be provided in the system and they shall have efficiency equal to the permanent filters. The return air ductwork shall be protected from construction dirt by temporary filters placed over return openings.

If the Mechanical Contractor does not have one of the above systems in operation by the time the building is enclosed, then the Mechanical Contractor shall provide, maintain and supervise the operation of temporary portable units with necessary automatic controls to provide required temperatures. Current required may be taken from the temporary electrical service. See "Temporary Electrical Installation". Cost of fuel to operate portable units shall be paid by the General Prime Contractor.

All electrical wiring required for temporary heating units shall be furnished and installed by Mechanical Contractor, from temporary wiring service. Electrical wiring to permanent equipment used for temporary heating that has been mounted in its permanent location shall be wired by contractors skilled in that work.

The use of open salamanders as portable heating units will not be approved. All portable temporary heating units shall be properly ventilated to prevent combustion gases from remaining in the heating area.

The Mechanical Contractor must ascertain if heating equipment will operate on the temporary electrical service available. If service is insufficient to operate equipment, Mechanical Contractor shall make other arrangements.

The Mechanical Contractor shall be responsible for the proper adjustment and maintenance of the system, and shall supervise and be responsible for the operation of the system used for temporary heating until the Owner occupies the building. Supervision shall include periodic checking of operation as required.

A minimum temperature of 45 degrees and a maximum temperature of 60 degrees for the building shall be maintained by the Mechanical Contractor, except for a period of at least ten days prior to the placing of interior woodwork and throughout the placing of this and other finish, varnishing, painting, etc., and until substantial completion to provide sufficient heat to insure a temperature in the spaces involved of not less than 70 degrees nor more than 80 degrees.

The temporary heating system shall be removed by the Mechanical Contractor after the permanent heating system has been installed and operating. Surfaces and structure shall be patched as required. Temporary heating equipment shall be relocated by the Mechanical Contractor as required during construction to prevent interference with new construction.

At completion of construction work or when temporary heat is no longer required, Mechanical Contractor must repair any damage done to permanent equipment during temporary heating period and also perform the necessary cleaning of all ducts and equipment. The Mechanical Contractor shall provide permanent filters to the complete satisfaction of the Owner.

27. FIRE PROTECTION
The General Prime Contractor shall provide and maintain in working order during the entire construction period, a minimum of three (3) fire extinguishers on each floor level, including basement of the building, and one (1) in temporary office. Extinguishers shall be non-freeze type such as A-B-C rated dry chemical, of not less than 10-pound capacity.
each. In addition, any Subcontractor who maintains an enclosed shed on the site shall provide and maintain, in an accessible location, one or more similar nonfreezing type fire extinguisher in each enclosed shed.

28. WATCHPERSONS
Watchpersons will not be furnished by the Owner. The Contractor shall provide such precautionary measures, to include the furnishing of watchpersons if deemed necessary, to protect persons and property from damage or loss where the Contractor's work is involved.

29. STORAGE OF MATERIALS
Contractor shall confine equipment, apparatus, storage of materials and operations to limits indicated on the drawings or by specific direction of the Owner and shall not bring material onto the site until they are needed for the progress of the work.

The storage of materials on the grounds and within the building shall be in strict accordance with the instructions of the Owner. Storage of materials within the building shall at no time exceed the design carrying capacity of the structural system.

All materials affected by moisture shall be stored on platforms and protected from the weather.

All materials shall be stored in a manner that prevents release of hazardous material to the environment.

All hazardous materials, including motor fuels, shall be properly handled and contained to prevent spills or other releases. The General Prime Contractor shall develop and maintain a contingency plan to provide emergency response, containment, and cleanup of spills of hazardous materials resulting from contract activities. All spills and releases shall be reported to the Owner as soon as possible.

During the construction of this building, materials, construction sheds, and earth stockpiles shall be located so as not to interfere with the installation of the utilities nor cause damage to existing lines.

The Contractor shall allot space to others for storage of their materials, and erection of their sheds.

Should it be necessary at any time to move material sheds or storage platforms, the Contractor shall move same at the Contractor's expense, when directed by Owner.

Repairing of areas used for placing of sheds, offices, and for storage of materials shall be done by the Contractor.

30. PROTECTION OF FINISHED CONSTRUCTION
Contractor shall assume the responsibility for the protection of all finished construction under the Contract and shall repair and restore any and all damage of finished work to its original state.

Wheeling of any loads over any type of floor, either with or without plank protection, will be permitted only in rubber tired wheelbarrows, buggies, trucks or dollies.

Where structural concrete is also the finished surface, care must be taken to avoid marking or damaging those surfaces.

31. PROTECTION IN GENERAL
All structures and equipment shall be constructed, installed and operated with guards, controls and other devices in place.

Temporary pumps required for pumping water from building excavation or from building proper shall be provided by the General Prime Contractor, including temporary connections. Plumbing Contractor shall install permanent sump basins and piping where and when required. Permanent sump pumps shall not be installed until building is substantially
complete and when approved by Owner. The General Prime Contractor shall remove temporary pumps and connections when approved by Owner.

The General Prime Contractor shall:
Provide, erect and maintain all required planking, barricades, guard rails, temporary walkways, etc., of sufficient size and strength necessary for protection of stored material and equipment; paved surfaces, walks, curbs, gutters and drives; streets adjacent to or within project area; adjoining property and all project work to prevent accidents to the public and the workmen at the job site.

Notify adjacent property owners if their property interferes with the work so that arrangements for proper protection can be made.

Provide and maintain proper shoring and bracing to prevent earth from caving or washing into the building excavation.
Provide temporary protection around openings through floors and roofs, including elevator openings, stairwells, and edge of slabs.

Provide and maintain proper shoring and bracing for existing underground utilities, sewers, etc., encountered during excavation work, to protect them from collapse or other type of damage until such time as they are to be removed, incorporated into the new work, or can be properly backfilled upon completion of new work.

Provide protection against rain, snow, wind, ice, storms, or heat to maintain all work, materials, apparatus, and fixtures, incorporated in the work or stored on the site, free from injury or damage. At the end of the day's work, cover all new work likely to be damaged. Remove snow and ice as necessary for safety and proper execution of the work.

Protect the building and foundations from damage at all times from rain, ground water and back-up from drains or sewers.
Provide all equipment and enclosures as necessary to provide this protection.

Damaged property shall be repaired or replaced in order to return it to its original condition. Damaged lawns shall be replaced with sod.

Protect materials, work and equipment, not normally covered by above protection, until construction proceeds to a point where the general building protection of the area where located, dispenses with the necessity therefore. Protect work outside of the building lines such as trenches and open excavations, as specified above.

Take all necessary precautions to protect the Owner's property as well as adjacent property, including trees, shrubs, buildings, sanitary and storm sewers, water piping, gas piping, electric conduit or cable, etc., from any and all damage which may result due to work on this project.

Repair work outside of property line in accordance with the requirements of the authority having jurisdiction.

Repair any work, damaged by failure to provide proper and adequate protection, to its original state to the satisfaction of the Owner or remove and replace with new work at the Contractor's expense.

Protect trees indicated on the drawings to remain and trees in locations that would not interfere with new construction, from all damage. Do not injure trunks, branches, or roots of trees that are to remain. Do cutting and trimming only as approved and as directed by Owner.

The value of trees destroyed or damaged will be charged against the account of the Contractor responsible for the damage in an amount equal to the expense of replacing the trees with those of similar kind and size.

32. ABATEMENT PROTECTION

General Prime Contractor is responsible for providing protection for existing conditions on all surfaces along circulation path from the loading dock to Work on 3rd and 4th floors before abatement begins.
33. CLEANING AND WASTE DISPOSAL
Contractor shall be responsible for all cleaning required within the technical sections of the specifications governing work under the Contractor's jurisdiction as well as for keeping all work areas, passageways, ramps, stairs and all other areas of the premises free of accumulation of surplus materials, rubbish, debris and scrap which may be caused by the Contractor's operations or that of the Subcontractors.

Remove rubbish, debris and scrap promptly upon its accumulation and in no event later than the end of each week.

Combustible waste shall be removed immediately or stored in fire resistive containers until disposed of in an approved manner.

No burning of rubbish or debris will be allowed at the site. Rubbish, debris and scrap shall not be thrown through any window or other opening, or dropped from any great height; it shall be conducted to the ground, to waiting truck(s) or removable container(s) by means of approved chutes or other means of controlled conveyance.

Form and scrap lumber shall have all nails withdrawn or bent over; shall be neatly stacked, placed in trash bins, or removed from the premises.

Spillages of oil, grease or other liquids which could cause a slippery or otherwise hazardous situation or stain a finished surface, shall be cleaned up immediately.

Dust, dirt and other foreign matter shall be removed completely from all internal surfaces of all mechanical and electrical units, cabinets, ducts, pipes, etc.

Dirt, soil, fingerprints, stains and the like, shall be completely removed from all exposed finished surfaces.

General Prime Contractor shall wash all glass immediately prior to the occupancy of this project. Work shall include the removal of labels, paint splattering, glazing compound and sealant. Surfaces shall include mirrors and both sides of all glass in windows, borrowed lights, partitions, doors and side lights.

Broken, scratched or otherwise damaged glass shall be replaced by the General Prime Contractor.

In addition to the above, the General Prime Contractor shall be responsible for the general "broom" cleaning of the premises and for expediting all of the cleaning, washing, waxing and polishing required within the technical sections of the specifications governing work under this Contract. The General Prime Contractor shall also perform "final" cleaning of all exposed surfaces to remove all foreign matter, spots, soil, construction dust, etc., so as to put the project in a complete and finished condition ready for acceptance and use intended.

If rubbish and debris is not removed, or if surfaces are not cleaned as specified above, the Owner reserves the right to have said work done by others and the related cost(s) will be deducted from monies due the Contractor.

34. OPERATING AND MAINTENANCE MANUALS AND INSTRUCTIONS
Contractor shall provide the Owner with two (2) sets of the O&M data for each device, piece of equipment and assembly furnished and/or installed under this contract. Format shall be paper, indexed and labeled and bound in three-ring binders. When duplicate electronic data is available, include electronic media in 3-hole vinyl holders in binders.

The O&M manuals shall include the following:
- Table of Contents
- Contact information (including emergency contact number) for installing contractor, original vendor manufacturer and service provider
- Copy of approved submittals
- As-built control drawings and sequences of operations
• Catalog data or literature with correct model number checked
• Manufacturer’s installation and operation instructions including start-up, break-in, shutdown, seasonal, emergency and special operation procedures
• Manufacturer’s maintenance instructions including procedures and instructions for problem corrections, preventive maintenance, testing, alignment, adjustment and repair
• Complete parts list in an exploded view diagram of the equipment
• Construction Verification Checklists
• Inspection and testing reports
• Maintenance records indicating maintenance performed by contractor prior to substantial completion
• Equipment warranties including terms and conditions and date of inception (substantial completion) and date of expiration
• List of special tools or testing equipment required for the operation, testing or maintenance of the equipment
• For items assembled by the Contractor for special functions, write operating and maintenance instructions

Contractor shall submit to A/E for review, make revisions noted by A/E and provide final O&M data for A/E’s review 30 business days prior to training. Any revisions or changes to the systems and/or equipment post delivery of the final O & M data submittal must be submitted to A/E as an addendum within 30 days of the revision or change.

35. TESTS AND ADJUSTMENTS
The complete installation consisting of the several parts and systems and all equipment installed according to the requirements of the Contract Documents, shall be ready in all respects for use by the Owner and shall be subjected to a test at full operating conditions and pressures for normal conditions of use.

Contractor shall make all necessary adjustments and replacements affecting the work which is necessary to fulfill Owner requirements and to comply with the directions and recommendations of the manufacturer of the several pieces of equipment, and to comply with all codes and regulations which may apply to the entire installation. Contractor shall also make all required adjustments to comply with all provisions of the drawings and specifications.

36. LOOSE AND DETACHABLE PARTS
Contractor shall retain all loose and small detachable parts of apparatus and equipment furnished under this Contract, until completion of the work and shall turn them over to Owner designated to receive them. Contractor shall obtain from the Owner an itemized receipt thereof.

37. EROSION CONTROL AND STORM WATER MANAGEMENT
In accordance with state law, where applicable, and what the University of Wisconsin System Administration believes to be good soil conservation practices and pollution prevention, the General Prime Contractor shall be governed by the following:

The General Prime Contractor hereby covenants to maintain all project grounds, public streets and associated areas, including fill areas in a manner consistent with state laws and the general policy to conserve soil and soil resources, and to control and prevent soil erosion and to control and prevent siltation into waters of the state. This clause is to be liberally construed to further the above stated objectives. The following shall include, but not limit areas in which control is to be executed:

Erosion Control Plan: Implement the erosion control plan developed for the project and maintain erosion control practices throughout the construction period. Modifications to the erosion control plan, addressing phases of construction shall be the responsibility of the General Prime Contractor. Erosion control practices that are compromised as the result of construction activity shall be returned to their functioning state by the end of the current work day. Where applicable, erosion control practices shall comply with Chapters NR 151 and 216, Wis. Adm. Code.

Minimum Stripping: Limit stripping of sod and vegetation and limit land disturbance to an area and a time period that will expose bare soil to least possibility of erosion that construction requirements will allow.

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Stockpiling: Materials, including soil, shall be stored and protected in a manner that will prevent runoff of material from the stockpiles into streets, drainage facilities, storm sewer systems, or waters of the state in the event of rain.

Soil Erosion and Erodible Materials: Take positive measures to prevent soil erosion from the construction area and areas disturbed by construction activities by employing such means as seed and mulch, mulches, intercepting embankments and berms, sedimentation basins, ditch checks, riprap, erosion mats, silt fence, approved polyacrylamides, inlet protection, or other temporary erosion control devices or methods.

Record Keeping: Maintain a copy of the current erosion control plan on site. Maintain maintenance records and inspection logs on-site for erosion control and storm water management practices. Contractor shall provide Owner with a weekly maintenance and inspection report.

Street Maintenance: Control the tracking of soil onto street and paved surfaces to a minimum. Any such tracking shall be removed no less than on a daily basis.

Storm Water Management: Practices installed for post-construction storm water management shall be protected during construction activity, and in the event that their intended function becomes compromised during construction activity, shall be restored and/or repaired according to Chapters NR 151 and 216, Wis. Adm. Code, for post-construction storm water management.

Erosion control and storm water management practices shall be installed and maintained in accordance with the WDNR approved technical standards available at the following website:


Responsibility and authority for maintaining records for NR 216 is the responsibility of the General Prime Contractor.

AIR QUALITY MANAGEMENT

In accordance with the Department of Administration’s air quality management practice on Ozone Action Days, all contractors shall reduce or limit emissions and particulate matter that adversely affect air quality.

The General Prime Contractor shall establish the action plan, in cooperation with other contractor(s), concerning implementation of air quality management on Ozone Action Days. This plan shall include suspending work or modifying operations for all activities related to ozone, volatile organic compounds (VOC) and nitrogen oxide emissions. These work activities include but are not limited to the following:

- Limit equipment and vehicle refueling to after 6 pm.
- Limit use of gasoline-powered vehicle and equipment.
- Limit excessive idling of diesel-powered vehicle and equipment.
- Limit large scale painting with VOC.
- Limit large scale asphalt roofing and paving.
- Limit and/or control all dust creating activities.

For information on air quality readings on Ozone Action Days refer to:

1-866-324-5924; or
http://www.dnr.state.wi.us/org/aw/air/wisards/state.htm

CONSTRUCTION WASTE MANAGEMENT

See Section 01 74 19 – Construction Waste Management.

GUARANTEE DOCUMENTS

Upon Substantial Completion of project, the Contractor shall submit such written guarantees and bonds to the Owner.
41. RECORD DOCUMENTS

On a suitable set of Contract Documents, the contractor is to maintain a daily record of changes and deviations from the contract. All buried or concealed piping, conduit, or similar items shall be located by dimensions and elevations on the record drawings.

The daily record of changes shall be the responsibility of Contractor's field superintendent. No arbitrary mark-ups will be permitted.

Once during the month the Contractor shall present at the project, the job copy showing variations and changes to date to the Architect/Engineer and the Owner for their review.

At substantial completion of the project, the Contractor shall transmit the marked up as-built documents to the Architect/Engineer and copy the Owner on the transmittal of the documents. The A/E will incorporate the contractor marked up as-built drawings into the record drawings.
1. NOT ALL KEYNOTES ARE USED ON ALL SHEETS.

2. Architecture Planning

3. REFER TO MEP FOR ADDITIONAL DEMOLITION

4. PRIOR TO DEMOLITION, GENERAL CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION, ENGINEERING AND STRUCTURE FOR OPENINGS INDICATED ON DRAWINGS IN EXISTING BUILDING. REFER TO P101 GENERAL NOTE 2, M101 GENERAL NOTES 9 AND 10.

5. FIELD VERIFY ALL EXISTING CONDITIONS, NOTIFY ARCHITECT OF ANY DISCREPANCIES.

6. PATCH SURFACES DAMAGED BY DEMOLITION TO MATCH EXISTING ADJACENT SURFACES.

7. REMOVE PORTION OF EXISTING SLAB AND PREP FOR INSTALLATION OF FLOOR MOUNT PIVOTS AT DOOR. SEE SPECIFICATION 08 41 26. FLOOR SLAB REQUIRES FIELD VERIFICATION AND SCAN PRIOR TO CUTTING AND PRIOR TO 08 41 26 SHOP DRAWING SUBMITTAL OR ANY FABRICATION.

8. THE UNIVERSITY OF WISCONSIN-MADISON, UNDER SEPARATE CONTRACT, WILL REMOVE NON-FIBERGLASS PIPE INSULATION, HARD PACKED PIPE FITTINGS, 9" FLOOR TILE, BLACK FLOORING MASTIC, AND PLASTER THAT WILL BE DISTURBED BY THE CONTRACTOR'S WORK. CONTRACTOR IS TO MARK EXTENT OF THESE MATERIALS TO BE REMOVED AND COORDINATE WORK WITH THE ABATEMENT CONTRACTOR. ALLOW AMPLE TIME IN ...

9. EXISTING WINDOW GLAZING COMPOUND, CAULKING AND SEALANTS ARE ASSUMED TO CONTAIN ASBESTOS AND THE REMOVAL OF THESE ITES IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR REMOVING EXISTING CAULKING, SEALANTS AND/OR WINDOWS SHALL COMPLY WITH WISCONSIN ADMINISTRATIVE CODE CHAPTER DEPARTMENT OF HEALTH SERVICES 159- OFFICE CERTIFICATION AND TRAINING REQUIREMENTS FOR ASBESTOS ACTIVITIES. WORKERS REMOVING THE EXISTING CAULKING, SEALANT AND/OR WINDOWS ON THIS PROJECT SHALL BE ASBESTOS CERTIFIED BY WISCONSIN DHS.

10. REMOVE STUD WALL, LATH, AND PLASTER, 2 SIDES.

11. DEMO WD DOOR AND HM FRAME. REMOVE AND RETURN ALL LOCK CYLINDERS TO UW LOCK SHOP.

12. REMOVE BLINDS, SALVAGE, AND RETURN TO OWNER.

13. DEMO LIGHT. REFER TO ELECTRICAL FOR ADDITIONAL INFORMATION.

14. REMOVE CABLE TRAY. REFER TO ELECTRICAL FOR MORE INFORMATION AND RELOCATION OF CABLE TRAY. PATCH HOLES AND MATCH ADJACENT PLASTER.

15. DEMO AND SALVAGE METAL WINDOW. UW TO STORE WINDOW FOR FUTURE REINSTALLATION.

16. DEMO AND RECYCLE LIBRARY STACKS

17. REMOVE CLOCK, SALVAGE, AND RETURN TO OWNER.

18. REMOVE AND SALVAGE SIGNAGE FOR REINSTALLATION.

19. REMOVE AND SALVAGE FIRE EXTINGUISHER BRACKET NOT USED.

20. DEMO 1'-4" x 4" STAINLESS STEEL PANEL.

21. REMOVE AND SALVAGE LIGHT FOR REINSTALLATION. REFER TO ELECTRICAL FOR ADDITIONAL INFORMATION. PATCH HOLES AND MATCH ADJACENT PLASTER.

22. REMOVE CORK BOARD, SALVAGE, AND RETURN TO OWNER.

23. REMOVE DISPLAY BOARD, SALVAGE AND RETURN TO OWNER.

24. DEMO AND RECYCLE LIBRARY STACKS

25. REMOVE CARPET AND RESILIENT BASE. REMOVE MASTIC AND PREP FLOOR FOR SCHEDULED FINISH.

26. REMOVE CORK BOARD, SALVAGE, AND RETURN TO OWNER.

27. REMOVE DISPLAY BOARD, SALVAGE AND RETURN TO OWNER.

28. DEMO AND RECYCLE LIBRARY STACKS
DEMOLITION PLAN KEY NOTES

1. REMOVE STUD WALL, LATH, AND PLASTER, 2 SIDES.
2. DEMO WD DOOR AND HM FRAME. REMOVE AND RETURN ALL LOCK CYLINDERS TO UW LOCK SHOP.
3. REMOVE BLINDS, SALVAGE, AND RETURN TO OWNER.
4. DEMO HOSE CABINET IN ITS ENTIRETY.
5. REMOVE STUD WALL, LATH, AND PLASTER, 1 SIDE.
6. DEMO AND SALVAGE METAL WINDOW. UW TO STORE WINDOW FOR FUTURE REINSTALLATION.
7. DEMO LIGHT. REFER TO ELECTRICAL FOR ADDITIONAL INFORMATION.
8. REMOVE CLOCK, SALVAGE, AND RETURN TO OWNER.
9. REMOVE CABLE TRAY. REFER TO ELECTRICAL FOR MORE INFORMATION AND RELOCATION OF CABLE TRAY. PATCH HOLES AND MATCH ADJACENT PLASTER.
10. REMOVE AND SALVAGE SIGNAGE FOR REINSTALLATION.
11. REMOVE AND SALVAGE FIRE EXTINGUISHER BRACKET.
12. NOT USED.
13. DEMO 1'-4" x 4''-0" STAINLESS STEEL PANEL.
14. REMOVE AND SALVAGE LIGHT FOR REINSTALLATION. REFER TO ELECTRICAL FOR ADDITIONAL INFORMATION. PATCH HOLES AND MATCH ADJACENT PLASTER.
15. DEMO CARPET AND RESILIENT BASE. REMOVE MASTIC AND PREP FLOOR FOR SCHEDULED FINISH.
16. REMOVE CORK BOARD, SALVAGE, AND RETURN TO OWNER.
17. REMOVE DISPLAY BOARD, SALVAGE AND RETURN TO OWNER.
18. DEMO AND RECYCLE LIBRARY STACKS.

DEMOLITION RCP PLAN GENERAL NOTES

1. NOT ALL KEYNOTES ARE USED ON ALL SHEETS.
2. SEE MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS FOR ALL EXISTING BUILDING/CEILING MOUNTED DEVICES WHETHER SPECIFICALLY LISTED OR NOT.
3. REFER TO ELECTRICAL FOR LIGHTING DEMOLITION.
4. REFER TO MEP FOR ADDITIONAL DEMOLITION REGARDING MEP SYSTEMS.
5. FIELD VERIFY ALL EXISTING CONDITIONS, NOTIFY ARCHITECT OF ANY DISCREPANCIES.
6. PATCH SURFACES DAMAGED BY DEMOLITION TO MATCH EXISTING ADJACENT SURFACES.
7. REFER TO D204 FOR REMOVAL OF WALLS.
8. THE UNIVERSITY OF WISCONSIN-MADISON, UNDER SEPARATE CONTRACT, WILL REMOVE NON-FIBERGLASS PIPE INSULATION, HARD PACKED PIPE FITTINGS, 9" FLOOR TILE, BLACK FLOORING MASTIC, AND PLASTER THAT WILL BE DISTURBED BY THE CONTRACTOR'S WORK. CONTRACTOR IS TO MARK EXTENT OF THESE MATERIALS TO BE REMOVED AND COORDINATE WORK WITH THE ABATEMENT CONTRACTOR. ALLOW AMPLE TIME IN THE WORK SCHEDULE FOR ASBESTOS ABATEMENT. ABATEMENT CONTRACTOR WILL REQUIRE SOLE OCCUPANCY OF THE WORKSPACE DURING ASBESTOS ABATEMENT WORK.
9. EXISTING WINDOW GLAZING COMPOUND, CAULKING AND SEALANTS ARE ASSUMED TO CONTAIN ASBESTOS AND THE REMOVAL OF THESE ITEMS IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR REMOVING EXISTING CAULKING, SEALANTS AND/OR WINDOWS SHALL COMPLY WITH WISCONSIN ADMINISTRATIVE CODE CHAPTER DEPARTMENT OF HEALTH SERVICES 159-CERTIFICATION AND TRAINING REQUIREMENTS FOR ASBESTOS ACTIVITIES. WORKERS REMOVING THE EXISTING CAULKING, SEALANT AND/OR WINDOWS ON THIS PROJECT SHALL BE ASBESTOS CERTIFIED BY WISCONSIN DHS.

PROJECT
ARCHITECT
Planning
Dorschner|Associates, Inc.
122 West Washington Ave., Ste 100
Madison, Wisconsin 53703
Phone: 608.204.0777
Fax: 608.204.0778

DATE
06.09.23
DEMOLITION PLAN KEY NOTES

1. REMOVE STUD WALL, LATH, AND PLASTER, 2 SIDES.
2. DEMO WD DOOR AND HM FRAME. REMOVE AND RETURN ALL LOCK CYLINDERS TO UW LOCK SHOP.
3. REMOVE BLINDS, SALVAGE, AND RETURN TO OWNER.
4. DEMO HOSE CABINET IN ITS ENTIRETY.
5. REMOVE STUD WALL, LATH, AND PLASTER, 1 SIDE.
6. DEMO AND SALVAGE METAL WINDOW. UW TO STORE WINDOW FOR FUTURE REINSTALLATION.
7. DEMO LIGHT. REFER TO ELECTRICAL FOR ADDITIONAL INFORMATION.
8. REMOVE CLOCK, SALVAGE, AND RETURN TO OWNER.
9. REMOVE CABLE TRAY. REFER TO ELECTRICAL FOR MORE INFORMATION AND RELOCATION OF CABLE TRAY. PATCH HOLES AND MATCH ADJACENT PLASTER.
10. REMOVE AND SALVAGE SIGNAGE FOR REINSTALLATION.
11. REMOVE AND SALVAGE FIRE EXTINGUISHER BRACKET.
12. NOT USED.
13. DEMO 1'-4" x 4''-0" STAINLESS STEEL PANEL.
14. REMOVE AND SALVAGE LIGHT FOR REINSTALLATION. REFER TO ELECTRICAL FOR ADDITIONAL INFORMATION. PATCH HOLES AND MATCH ADJACENT PLASTER.
15. DEMO CARPET AND RESILIENT BASE. REMOVE MASTIC AND PREP FLOOR FOR SCHEDULED FINISH.
16. REMOVE CORK BOARD, SALVAGE, AND RETURN TO OWNER.
17. REMOVE DISPLAY BOARD, SALVAGE AND RETURN TO OWNER.
18. DEMO AND RECYCLE LIBRARY STACKS.

DEMOLITION RCP PLAN GENERAL NOTES

1. NOT ALL KEYNOTES ARE USED ON ALL SHEETS.
2. SEE MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS FOR ALL EXISTING BUILDING/CEILING MOUNTED DEVICES WHETHER SPECIFICALLY LISTED OR NOT.
3. REFER TO ELECTRICAL FOR LIGHTING DEMOLITION.
4. REFER TO MEP FOR ADDITIONAL DEMOLITION REGARDING MEP SYSTEMS. FIELD VERIFY ALL EXISTING CONDITIONS, NOTIFY ARCHITECT OF ANY DISCREPANCIES.
5. PATCH SURFACES DAMAGED BY DEMOLITION TO MATCH EXISTING ADJACENT SURFACES.
6. REFER TO D204 FOR REMOVAL OF WALLS.
7. THE UNIVERSITY OF WISCONSIN-MADISON, UNDER SEPARATE CONTRACT, WILL REMOVE NON-FIBERGLASS PIPE INSULATION, HARD PACKED PIPE FITTINGS, 9" FLOOR TILE, BLACK FLOORING MASTIC, AND PLASTER THAT WILL BE DISTURBED BY THE CONTRACTOR'S WORK. CONTRACTOR IS TO MARK EXTENT OF THESE MATERIALS TO BE REMOVED AND COORDINATE WORK WITH THE ABATEMENT CONTRACTOR. ALLOW AMPLE TIME IN THE WORK SCHEDULE FOR ASBESTOS ABATEMENT. ABATEMENT CONTRACTOR WILL REQUIRE SOLE OCCUPANCY OF THE WORKSPACE DURING ASBESTOS ABATEMENT WORK.
8. EXISTING WINDOW GLAZING COMPOUND, CAULKING AND SEALANTS ARE ASSUMED TO CONTAIN ASBESTOS AND THE REMOVAL OF THESE ITEMS IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR REMOVING EXISTING CAULKING, SEALANTS AND/OR WINDOWS SHALL COMPLY WITH WISCONSIN ADMINISTRATIVE CODE CHAPTER DEPARTMENT OF HEALTH SERVICES 159-CERTIFICATION AND TRAINING REQUIREMENTS FOR ASBESTOS ACTIVITIES. WORKERS REMOVING THE EXISTING CAULKING, SEALANT AND/OR WINDOWS ON THIS PROJECT SHALL BE ASBESTOS CERTIFIED BY WISCONSIN DHS.
FOURTH FLOOR DEMOLITION PLAN - HVAC

GENERAL DEMOLITION NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK. BEFORE ANY DISRUPTION TO THE BUILDING OCCURS, REPORT ANY DISCREPANCIES TO THE ARCHITECT.

2. REMOVE EXISTING PNEUMATIC CONTROLS COMPLETE. REMOVE ALL LPS / LPC DOWN TO 6" ABOVE 3RD FLOOR CEILING LEVEL AND CAP. REMOVE EXISTING STEAM CONVECTOR COMPLETE. REMOVE EXISTING UNIT VENTILATOR COMPLETE, INCLUDING ALL PNEUMATIC CONTROL TUBING LOCATED DIRECTLY IN CONCRETE SLAB, SHOP DRAWING SUBMITTAL OR FABRICATION OF EXISTING FLOOR PRIOR TO ANY FLOOR CORING, CUTTING OF FLOOR PIPING, AND PNEUMATIC CONTROLS. REMOVE OUTSIDE AIR DUCT CONNECTION TO EXISTING LOUVER.

3. WHEN PNEUMATIC CONTROLS ARE INDICATED TO BE REMOVED, REMOVE EXISTING STEAM CONVECTOR COMPLETE. REMOVE EXISTING FAN COIL COMPLETE, INCLUDING ALL PNEUMATIC CONTROL TUBING LOCATED DIRECTLY IN CONCRETE SLAB, SHOP DRAWING SUBMITTAL OR FABRICATION OF EXISTING FLOOR PRIOR TO ANY FLOOR CORING, CUTTING OF FLOOR PIPING, AND PNEUMATIC CONTROLS. REMOVE OUTSIDE AIR DUCT CONNECTION TO EXISTING LOUVER.

4. REMOVE EXISTING STEAM WALL FIN RADIATION COMPLETE. REMOVE EXISTING RETURN GRILLE AND ASSOCIATED DUCT.

5. REMOVE EXISTING RETURN GRILLE AND ASSOCIATED DUCT.

6. REMOVE EXISTING ABANDONED DUCTS. REMOVE FROM 4TH FLOOR CEILING DOWN TO 6" BELOW 3RD FLOOR CEILING LEVEL AND CAP.

7. REMOVE EXISTING CWS / CWR AND COND DOWN TO 6" BELOW 3RD FLOOR CEILING LEVEL AND CAP.

8. REMOVE EXISTING 1" LPS AND 3/4" LPC FROM 6" ABOVE 4TH FLOOR CEILING DOWN TO 6" BELOW 3RD FLOOR CEILING LEVEL AND CAP.

9. REMOVE EXISTING ABANDONED PIPE AND ELBOW UP TO 5TH FLOOR CEILING LEVEL AND CAP.

10. REMOVE EXISTING 1-1/4" CWS AND CWR DOWN TO 6" BELOW 3RD FLOOR CEILING LEVEL AND CAP.

11. REFER TO ARCHITECTURAL DEMOLITION FLOOR PLAN GENERAL NOTES FOR COORDINATION AND ABATEMENT PLAN GENERAL NOTES FOR COORDINATION.

12. REFER TO SECTION 03 30 00 FOR PATCHING INFILL OF OPENINGS IN EXISTING SLAB INCLUDING A MINIMUM OF 2 WEEKS IN ADVANCE.

13. REFER TO ARCHITECTURAL DEMOLITION FLOOR PLAN GENERAL NOTES FOR COORDINATION AND ABATEMENT PLAN GENERAL NOTES FOR COORDINATION.

GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK. BEFORE ANY DISRUPTION TO THE BUILDING OCCURS, REPORT ANY DISCREPANCIES TO THE ARCHITECT.

2. REMOVE EXISTING PNEUMATIC CONTROLS COMPLETE. REMOVE ALL LPS / LPC DOWN TO 6" ABOVE 3RD FLOOR CEILING LEVEL AND CAP. REMOVE EXISTING STEAM CONVECTOR COMPLETE. REMOVE EXISTING UNIT VENTILATOR COMPLETE, INCLUDING ALL PNEUMATIC CONTROL TUBING LOCATED DIRECTLY IN CONCRETE SLAB, SHOP DRAWING SUBMITTAL OR FABRICATION OF EXISTING FLOOR PRIOR TO ANY FLOOR CORING, CUTTING OF FLOOR PIPING, AND PNEUMATIC CONTROLS. REMOVE OUTSIDE AIR DUCT CONNECTION TO EXISTING LOUVER.

3. WHEN PNEUMATIC CONTROLS ARE INDICATED TO BE REMOVED, REMOVE EXISTING STEAM CONVECTOR COMPLETE. REMOVE EXISTING FAN COIL COMPLETE, INCLUDING ALL PNEUMATIC CONTROL TUBING LOCATED DIRECTLY IN CONCRETE SLAB, SHOP DRAWING SUBMITTAL OR FABRICATION OF EXISTING FLOOR PRIOR TO ANY FLOOR CORING, CUTTING OF FLOOR PIPING, AND PNEUMATIC CONTROLS. REMOVE OUTSIDE AIR DUCT CONNECTION TO EXISTING LOUVER.

4. REMOVE EXISTING STEAM WALL FIN RADIATION COMPLETE. REMOVE EXISTING RETURN GRILLE AND ASSOCIATED DUCT.

5. REMOVE EXISTING RETURN GRILLE AND ASSOCIATED DUCT.

6. REMOVE EXISTING ABANDONED DUCTS. REMOVE FROM 4TH FLOOR CEILING DOWN TO 6" BELOW 3RD FLOOR CEILING LEVEL AND CAP.

7. REMOVE EXISTING CWS / CWR AND COND DOWN TO 6" BELOW 3RD FLOOR CEILING LEVEL AND CAP.

8. REMOVE EXISTING 1" LPS AND 3/4" LPC FROM 6" ABOVE 4TH FLOOR CEILING DOWN TO 6" BELOW 3RD FLOOR CEILING LEVEL AND CAP.

9. REMOVE EXISTING ABANDONED PIPE AND ELBOW UP TO 5TH FLOOR CEILING LEVEL AND CAP.

10. REMOVE EXISTING 1-1/4" CWS AND CWR DOWN TO 6" BELOW 3RD FLOOR CEILING LEVEL AND CAP.

11. REFER TO ARCHITECTURAL DEMOLITION FLOOR PLAN GENERAL NOTES FOR COORDINATION AND ABATEMENT PLAN GENERAL NOTES FOR COORDINATION.

12. REFER TO SECTION 03 30 00 FOR PATCHING INFILL OF OPENINGS IN EXISTING SLAB INCLUDING A MINIMUM OF 2 WEEKS IN ADVANCE.

13. REFER TO ARCHITECTURAL DEMOLITION FLOOR PLAN GENERAL NOTES FOR COORDINATION AND ABATEMENT PLAN GENERAL NOTES FOR COORDINATION.
### Air Device Schedule

<table>
<thead>
<tr>
<th>UNIT NO.</th>
<th>HWCP-1 P-1 (E)</th>
<th>SERVICE ERV-1</th>
<th>AIR FLOW (CFM)</th>
<th>270</th>
</tr>
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<tbody>
<tr>
<td>VOLTAGE / PHASE</td>
<td>120/1</td>
<td>115 / 1</td>
<td>115 / 1</td>
<td>115 / 1</td>
</tr>
<tr>
<td>HP</td>
<td>3 (3)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>PRESSURE HEAD (FT)</td>
<td>10</td>
<td>40 (35)</td>
<td>40 (35)</td>
<td>40 (35)</td>
</tr>
<tr>
<td>EAT (°F)</td>
<td>40.0</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>SIZE (W x H)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>FAN SECTION</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>EWT (°F)</td>
<td>44</td>
<td>44</td>
<td>44</td>
<td>44</td>
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<tr>
<td>GPM</td>
<td>0.38</td>
<td>0.51</td>
<td>1</td>
<td>0.86</td>
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<tr>
<td>FILTER 2&quot; MERV 8</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>EAT / EWB (°F)</td>
<td>SUMMER 75.0 / 62.4</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>CAPACITY (MBH)</td>
<td>7.22</td>
<td>-</td>
<td>-</td>
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<tr>
<td>REMARKS</td>
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### Energy Recovery Ventilator Schedule

<table>
<thead>
<tr>
<th>UNIT NO.</th>
<th>FCU-4-1 FCU-4-2 FCU-4-3 FCU-4-4 FCU-4-5 FCU-4-6 FCU-4-7 FCU-4-8 FCU-4-9 FCU-4-10 FCU-4-11 FCU-4-12 FCU-4-13 FCU-4-14 FCU-4-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOLT / PHASE</td>
<td>115 / 1</td>
</tr>
<tr>
<td>EXT. SP (IN WC)</td>
<td>0</td>
</tr>
<tr>
<td>MIN. OA CFM</td>
<td>-</td>
</tr>
<tr>
<td>SUPPLY FAN TYPE</td>
<td>ECM</td>
</tr>
<tr>
<td>AIRFLOW (CFM)</td>
<td>540</td>
</tr>
<tr>
<td>MAX. FREE AREA VELOCITY (FPM)</td>
<td>100</td>
</tr>
<tr>
<td>SIZE (W x H)</td>
<td>36&quot; x 54&quot;</td>
</tr>
<tr>
<td>OPENING</td>
<td>-</td>
</tr>
<tr>
<td>SERVICE OA-FCU</td>
<td>-</td>
</tr>
<tr>
<td>SUMMER TOTAL EFFICIENCY (%)</td>
<td>61.5</td>
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<tr>
<td>WINTER SENSIBLE EFFICIENCY (%)</td>
<td>78.1</td>
</tr>
<tr>
<td>EAT / EWB (°F)</td>
<td>SUMMER 75.0 / 62.4</td>
</tr>
<tr>
<td>CAPACITY (MBH)</td>
<td>7.22</td>
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</table>

### Hot Water Convector Schedule

<table>
<thead>
<tr>
<th>UNIT NO.</th>
<th>L-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOLT / PHASE</td>
<td>-</td>
</tr>
<tr>
<td>HP</td>
<td>-</td>
</tr>
<tr>
<td>PRESSURE HEAD (FT)</td>
<td>-</td>
</tr>
<tr>
<td>EAT / EWB (°F)</td>
<td>SUMMER 75.0 / 62.4</td>
</tr>
<tr>
<td>MAX. FREE AREA VELOCITY (FPM)</td>
<td>100</td>
</tr>
<tr>
<td>SIZE (W x H)</td>
<td>36&quot; x 54&quot;</td>
</tr>
<tr>
<td>OPENING</td>
<td>-</td>
</tr>
<tr>
<td>SERVICE OA-FCU</td>
<td>-</td>
</tr>
<tr>
<td>WINTER SENSIBLE EFFICIENCY (%)</td>
<td>78.1</td>
</tr>
<tr>
<td>EAT / EWB (°F)</td>
<td>WINTER 75.0 / 62.4</td>
</tr>
<tr>
<td>CAPACITY (MBH)</td>
<td>7.22</td>
</tr>
</tbody>
</table>
NOT TO SCALE

A1 FOURTH FLOOR PLAN - POWER & SYSTEMS

EXISTING WALL RACK

EXISTING CABLE ENTRANCE

PHOTO D

PHOTO E

PHOTO F

EXISTING PANEL SEE EXISTING IDF 4300A. REUSE PATCH PANEL 4300A.

ACCOMODATE FOR OVERFLOW EQUIPMENT OUTLETS IN AVAILABLE SPACE.

PHOTOS D, E, AND F.
### Light Fixture Schedule

<table>
<thead>
<tr>
<th>Tag</th>
<th>Type</th>
<th>Description</th>
<th>Manufacturer</th>
<th>Catalog Series</th>
<th>Depth or Height</th>
<th>Finish or Type</th>
<th>Accessories / Door / Reflector / Trim Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCU-4-1</td>
<td>Fan Coil Unit</td>
<td>1/8HP 120 V 1</td>
<td></td>
<td></td>
<td></td>
<td>White Finish</td>
<td>Axis Lighting Cubled-SL25/75-1000-80-35-PL-4-W-UNV-D</td>
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<tr>
<td>FCU-4-2</td>
<td>Fan Coil Unit</td>
<td>1/8HP 120 V 1</td>
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<td>White Finish</td>
<td>Axis Lighting Cubled-SL25/75-1000-80-35-PL-4-W-UNV-D</td>
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<td>FCU-4-3</td>
<td>Fan Coil Unit</td>
<td>1/8HP 120 V 1</td>
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<td>White Finish</td>
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<tr>
<td>FCU-4-4</td>
<td>Fan Coil Unit</td>
<td>1/8HP 120 V 1</td>
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<td></td>
<td></td>
<td>White Finish</td>
<td>Axis Lighting Cubled-SL25/75-1000-80-35-PL-4-W-UNV-D</td>
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</table>

### Motor Wiring Schedule

<table>
<thead>
<tr>
<th>Tag</th>
<th>escription</th>
<th>Manufacturer</th>
<th>Catalog Series</th>
<th>Voltage</th>
<th>Phase</th>
<th>Size</th>
<th>Poles</th>
<th>Neutral</th>
<th>Ground</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERV-1</td>
<td>Energy Recovery Ventilator</td>
<td>10 Amps 120 V 1</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>TCP-1</td>
<td>Temperature Control Panel</td>
<td>120 V 1</td>
<td></td>
<td></td>
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</table>

### Special Purpose Outlet Schedule

<table>
<thead>
<tr>
<th>Tag</th>
<th>Description</th>
<th>Manufacturer</th>
<th>Catalog Series</th>
<th>Voltage</th>
<th>Description</th>
<th>Accessories</th>
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</thead>
<tbody>
<tr>
<td>XA</td>
<td>Exit Sign</td>
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<tr>
<td>XA</td>
<td>Linear LED</td>
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<tr>
<td>XA</td>
<td>Fire Alarm</td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

### Notes

- All mounting heights are measured from above finished floor or grade to the center of box, unless otherwise indicated.
- Disconnect and reconnect existing pumps P-1(E) and P-2(E). See sheet M801 for pump details and sheet M301 for location.
- All remote drivers shall be located in an accessible location that meets the ambient temperature requirements of the manufacturer. See submitted shop drawing wiring diagrams that all driver locations are within manufacturer’s recommended distance...
- Electrical contractor shall coordinate T-grid, wood and specialty ceiling systems with architect prior to ordering.
- Manufacturers listed as acceptable shall meet all requirements and features indicated. Acceptable manufacturers must...
- Devices required for termination of these circuits shall be included in the contractor’s base bid. Loads on this schedule may also require non-standard electrical rough-in heights. Electrical contractor...
1. CABLING REQUIREMENTS

2. COMMUNICATIONS EQUIPMENT OUTLET ROUGH-IN

3. EQUIPMENT OUTLET FOR WIRELESS ACCESS POINT

4. TYPICAL TELECOM OUTLET DETAIL

5. EXISTING FIFTH FLOOR FRAMING PLAN