

**DOCUMENT 00 90 00
ADDENDUM**

ADDENDUM NO. [3] Date: February 26, 2021

**RE: WESTERN TECHNICAL COLLEGE
 SPARTA PUBLIC SAFETY EXPANSION
 11177 COUNTY HWY A
 SPARTA, WISCONSIN 54656
 HSR PROJECT NO. 20028**

FROM: HSR Associates, Inc
 100 Milwaukee Street
 La Crosse, WI 54603
 (608) 784-1830

To: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated February 2021. Acknowledge receipt of this Addendum in the space provided on the bid form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of [5] pages, [1] specification section [19] 30 x 42 drawings and [1] prior product approval.

CHANGES TO PREVIOUS ADDENDUM: Addendum 1

1. Architectural Drawing A101 was re-issued as part of Addendum 1. A revision of this Drawing for Addendum 3 is described below.
2. Electrical Drawings E201, E301, E302, E303, E501, were re-issued as part of Addendum 1. Revisions of these Drawings for Addendum 3 are described below.

CHANGES TO PREVIOUS ADDENDUM: Addendum 2

3. Division 22 items 3, 4, 5 and 6: Change all occurrences of "brass/stainless" to "stainless".
4. Architectural Drawings A100 and A101 were re-issued as part of addendum 2. Revisions of these Drawings for Addendum #3 are described below.
5. Electrical Drawings E201, E202, E203, E301, E501, E502 were re-issued in Addendum 2. Revisions of these Drawings for Addendum 3 are described below.

CHANGES TO SPECIFICATIONS:

6. Section 26 32 00 PACKAGED GENERATOR ASSEMBLY
 - a. The 100KW/125KVA Natural Gas Emergency Generator has been deleted and shall be replaced with 300KW/375KVA Diesel Emergency Generator. Replace the previously issued specification section 26 32 00 – Packaged Generator Assembly with the attached specification.
7. Section 26 36 00 TRANSFER SWITCHES
 - a. 2.2 Ratings: Change transfer switch rating from 350 amps to 400 amps

8. Section 31 20 00 EARTHMOVING

- a. 2.02 Materials: Replace the word “bioretention” with “rain garden”.
- b. 3.12 Rain Garden: Replace paragraph in its entirety with the following:

“3.12 RETENTION AREA

- A. Construct the Rain Garden in accordance with the Wisconsin Department of Natural Resources, Runoff Management Storm Water Technical Standards, 1009.”

CHANGES TO DRAWINGS

9. Sheet C100 DEMOLITION PLAN 30 x42 attached hereto

- a. Revisions clouded on Drawing
- b. Conditions regarding new rain garden.

10. Sheet C200 LAYOUT PLAN 30 x42 attached hereto

- a. Revisions clouded on Drawing
- b. Conditions regarding new rain garden and site sign location

11. Sheet C300 GRADING PLAN 30 x42 attached hereto

- a. Revisions clouded on Drawing
- b. Conditions regarding new rain garden

12. Sheet C400 EROSION CONTROL AND UTILITY PLAN 30 x42 attached hereto

- a. Revisions clouded on Drawing
- b. Conditions regarding erosion control sequencing and new rain garden

13. Sheet A100 – FIRST FLOOR PLAN AREA A 30 x 42 attached hereto

- a. Revisions clouded on Drawing
- b. Added a note regarding wall patching.

14. Sheet A101 – FIRST FLOOR PLAN AREA B 30 x 42 attached hereto

- a. Revisions clouded on Drawing
- b. Added notes regarding wall patching.

15. Sheet E001 – ELECTRICAL SITE PLAN 30 x 42 attached hereto

- a. Revisions clouded on Drawing
- b. The 100KW/125KVA Natural Gas Emergency Generator has been deleted and replaced with a 300KW/375KVA Diesel Emergency Generator. In addition the location has changed.
- c. The Electric Service for the Fire Pump/Shop Building has been upgraded from 400 amps, 120/208VAC, 3-Phase, 4-Wire to 1,000 amps, 120/208VAC, 3-Phase, 4-Wire.

16. Sheet E002 – FIRST FLOOR REMOVAL PLAN - AREA A 30 x 42 attached hereto
 - a. Revisions clouded on Drawing
 - b. Refer to clouded note revisions with Addendum #3 Triangle symbol in the following rooms:
 - i. Main Vestibule and Corridor
 - ii. Indoor Firing Range #113
 - iii. Classroom/Gun Cleaning #115
 - iv. Utility Room #115C
 - v. Lounge #116
 - vi. Men's Restroom #122
 - vii. Women's Restroom #124
 - viii. Keyed notes #27 & #50 have been modified.
17. Sheet E003 – FIRST FLOOR REMOVAL PLAN - AREA B 30 x 42 attached hereto
 - a. Revisions clouded on Drawing
 - b. Refer to clouded note revisions with Addendum #3 Triangle symbol in the following rooms:
 - i. Storage Room #117
 - ii. Office #125
 - iii. Fire Bay #126
 - iv. Classroom #127
 - v. Classroom #129
 - vi. Storage Room #132
 - vii. Keyed notes #27 and #50 have been modified.
18. Sheet E004 – SECOND FLOOR REMOVAL PLAN – AREA B 30 x 42 attached hereto
 - a. Revisions clouded on Drawing
 - b. Refer to clouded note revisions with Addendum #3 Triangle symbol in the following room:
 - i. DAAT Room
 - ii. Elevator Lobby
 - iii. Fire Bay Mezzanine Mechanical Room
 - iv. Air Handling Room
19. Sheet E201 – FIRST FLOOR LOW VOLTAGE PLAN 30 x 42 attached hereto
 - a. Revisions clouded on Drawing
 - b. In Lobby 1H2; provide a GFI receptacle for electric water cooler, reuse existing branch circuit wiring. Refer to clouded change with Addendum #3 triangle symbol.
20. Sheet E202 – FIRST FLOOR POWER PLAN – AREA B 30 x 42 attached hereto
 - a. Revisions clouded on Drawing
 - b. In Corridor 1H11; provide a GFI receptacle for electric water cooler, reuse existing branch circuit wiring. Refer to clouded change with Addendum #3 triangle symbol.
21. Sheet E203 – SECOND FLOOR POWER PLAN – AREA B 30 x 42 attached hereto
 - a. Revisions clouded on Drawing
 - b. Refer to DAAT #202; Air Handling Unit AHU-3 relocated from Weigh Room #200 to this room. Refer to clouded change with Addendum #3 triangle symbol.

22. Sheet E302 – FIRST FLOOR LOW VOLTAGE PLAN – AREA B 30 x 42 attached hereto
- a. Revisions clouded on Drawing
 - b. Keyed Note #24 has been modified. Refer to clouded change with Addendum #3 triangle symbol.
23. Sheet E501 – ELECTRICAL SCHEDULES 30 x 42 attached hereto
- a. Revisions clouded on Drawing
 - b. Refer to Lighting Fixture Schedule. Added the following Lighting Fixture Types: 'AD3', 'DE', 'G', 'UC2' and 'UC4'. Refer to clouded change with Addendum #3 triangle symbol.
24. Sheet E502 – ELECTRICAL SCHEDULES 30 x 42 attached hereto
- a. Revisions clouded on Drawing
 - b. Refer to clouded change made to Panelboard 'D' with Addendum #3 triangle symbol.
 - c. Delete Panelboard 'EM' Schedule.
25. Sheet FA01 – FIRST FLOOR FIRE ALARM PLAN – AREA A 30 x 42 attached hereto
- a. Revisions clouded on Drawing
 - b. Refer to EMS Training Room #105, Classroom #114 and Women's Room 1R5; Do not extend existing fire alarm wiring from previously removed fire alarm device to new fire alarm device. All new fire alarm devices shall be connected with new fire alarm wiring to upgraded fire alarm control panel located in Mech/AHU Room #2M4. Refer to clouded changes with Addendum #3 triangle symbol.
 - c. Refer to Vestibule #1H1; Existing Fire Alarm Annunciator panel shall be replaced with new Annunciator panel compatible with upgraded Fire Alarm Control Panel. Refer to clouded change with Addendum #3 triangle symbol.
26. Sheet FA02 – FIRST FLOOR FIRE ALARM PLAN – AREA B 30 x 42 attached hereto
- a. Revisions clouded on Drawing
 - b. Refer to EMS Workroom #125, Office #133-153, Classroom #155 and Fire Training Lockers #157; Do not extend existing fire alarm wiring from previously removed fire alarm device to new fire alarm device. All new fire alarm devices shall be connected with new fire alarm wiring to upgraded fire alarm control panel located in Mech/AHU Room #2M4. Refer to clouded changes with Addendum #3 triangle symbol.
 - c. In Fire Workroom #130; Delete ceiling mounted notification device, existing wall-mounted notification device to remain as is. Refer to clouded changes with Addendum # triangle symbol.

27. Sheet FA03 – SECOND FLOOR FIRE ALARM PLAN 30 x 42 attached hereto

- a. Revisions clouded on Drawing
- b. Refer to Weight Room #200 and Corridor #2H2; Do not extend existing fire alarm wiring from previously removed fire alarm device to new fire alarm device. All new fire alarm devices shall be connected with new fire alarm wiring to upgraded fire alarm control panel located in Mech/AHU Room #2M4. Refer to clouded changes with Addendum #3 triangle symbol.
- c. Refer to DAAT #202; Provide a duct smoke detector and install in return air duct as directed by HVAC Contractor. Refer to clouded change with Addendum #3 triangle symbol.
- d. Refer to Mechanical Room #2M2; Provide a duct detector and install in return air duct as directed by HVAC Contractor. Refer to clouded change with Addendum #3 triangle symbol.
- e. Refer to Mechanical/AHU Room #2M4; Provide a Fire Alarm Power Supply (NAC Panel). Refer to clouded change with Addendum #3 triangle symbol.

PRIOR APPROVALS

28. Section 10 56 26 MOBILE STORAGE SHELVING: Spacefile International, Inc

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SECTION 26 32 00

PACKAGED GENERATOR ASSEMBLY

PART 1 - GENERAL

1.1 SCOPE

- A. Provide a 300KW/375.0 KVA, 120/208 VAC, 3-Phase, 4-Wire, Fuel Oil (Diesel), radiator-cooled, Stand-By Emergency Generator. Emergency Generator shall be installed outside in a weatherproof sound attenuated enclosure. Provide a remote start/stop station. Electrical Contractor shall provide a concrete pad for mounting of generator, consult manufacturer for size and locations of conduit stubs. Include One (1) 800 amp, 3-pole for load bank, One (1) 400 amp, 3-pole for fire pump. Consult with manufacturer, Generator and associated equipment shall be fire pump rated.

1.2 RELATED WORK

- A. Applicable provisions of Division 1 govern work under this section.
- B. Section 26 36 00 - Transfer Switches

1.3 REFERENCE STANDARDS

NFPA 70 – National Electrical Code
NFPA 101- Life Safety Code
NFPA110 – Emergency and Standby Power Systems
ANSI/NEMA MG 1 - Motors and Generators
UL2200 – Stationary Engine Generator Assemblies

1.4 PERMITS

- A. The Contractor shall be responsible for obtaining all necessary permits for the complete installation of the generator fuel system and related equipment.

1.5 SUBMITTALS (Electronic PDF)

- A. Submit shop drawings showing detailed equipment assemblies and indicate dimensions, weights, loads, required clearances, plan and elevation views with overall location and interconnection point dimensions, method of field assembly, components and location and size of each field connection.
- B. Include product data for generator and all accessories: batteries and charger, engine generator set, muffler, exhaust piping external to unit, outdoor enclosure, remote annunciator(s), remote emergency stop, cooling system heaters. In addition, fuel consumption rate curves at various loads, ventilation and combustion air requirements, thermal damage curves for generator, time current characteristic curves for generator protective device (if included) and electrical ratings and diagrams including schematic and interconnection diagrams.
- C. Certified Test Reports. Factory test reports including noise level, exhaust emissions showing compliance with Tier 4, and field quality tests.
- D. Certification of Torsional Vibration Compatibility.

- E. Documentation for a 1-year comprehensive engine, parts, and enclosure warranty.
- F. Wiring diagram for status of generator output circuit breaker or OCPD serving the emergency side of the automatic transfer switch. Include annunciation and indication monitoring integral to annunciator panel. Submit manufacturer's installation instructions.

1.6 OPERATION AND MAINTENANCE DATA

- A. All operations and maintenance data shall comply with the submission and content requirements specified under section GENERAL REQUIREMENTS.

1.7 QUALITY ASSURANCE

- A. Manufacturer: Company specializing in packaged engine generator systems with minimum ten years documented experience. Packaged generator assembly shall meet UL 2200 requirements.
- B. Supplier: Authorized distributor of engine generator manufacturer with service facilities within 100 miles of project site.

1.8 EXTRA MATERIAL

- A. Provide two additional sets of each fuel, oil, and air filter elements required for the engine generator system and one additional set of all required belts.

PART 2-PRODUCTS

2.1 SYSTEM RATINGS

- A. Generator Set Rating: 300 kW, 375.0 kVA, 0.8pf, 120/208 VAC, 3 phase, 4 wire, 12 wire re-connectable, 60 Hz. Standby power rated.
- B. Motor starting KVA shall be based on a sustained RMS voltage drop of no more than 15% of no-load voltage with the specified kVA load at near zero power factor applied to the engine-generator set.
- C. The generator set manufacturer shall verify the engine as capable of driving the generator with all accessories in place and operating at the nameplate rating after de-rating for the range of temperature expected in service and the altitude of the installation.
- D. The engine-generator set shall be capable of picking up 100% of nameplate kW, less applicable de-rating factors, in one step with the engine-generator set at operating temperature.
- E. Voltage regulation shall be $\pm 1.0\%$ of rated voltage for any constant load between no load and rated load. Random voltage variation with any steady state load from no load to full load shall not exceed $\pm 1.0\%$ of rated voltage.
- F. Frequency regulation shall be $\pm 0.5\%$ from steady state no load to steady state rated load.
- G. Harmonic distortion shall not exceed 5% total harmonic distortion at full linear load and no single harmonic shall exceed 3% of rated voltage.

- H. Telephone Influence Factor: TIF shall be less than 50.
- I. Emergency Generator shall be sized to energize the following loads:
 - 1. 60 HP., 208VAC, 3-Phase 'Fire Pump' with a full load amp rating 163.0 amps., Locked Rotor Amp rating of 962 amps.

2.2 ENGINE AND ENGINE EQUIPMENT

A. Engine Type:

- 1. The minimum 9 liter displacement engine shall deliver a minimum of 463HP at a governed engine speed of 1800 rpm, and shall be equipped with the following:
 - a. Electronic isochronous governor capable of 0.25% steady-state frequency regulation
 - b. 24-volt positive-engagement solenoid shift-starting motor
 - c. 45-ampere automatic battery charging alternator with a solid-state voltage regulation
 - d. Positive displacement, full-pressure lubrication oil pump, cartridge oil filters, dipstick, and oil drain
 - e. Dry-type replaceable air cleaner elements for normal applications
 - f. Engine-driven or electric fuel-transfer pump including fuel filter and electric solenoid fuel shutoff valve capable of lifting fuel
 - g. The turbocharged engine shall be fueled by diesel
 - h. The engine shall have a minimum of 6 cylinders and be liquid-cooled
- 2. The engine shall be EPA certified from the factory
- 3. The generator must accept rated load in one-step.

B. Fuel Type: Fuel Oil (Diesel)

C. Governor: Isochronous electronic type to maintain engine speed within 0.5 percent, steady state, and 1 percent, no load to full load, with recovery to steady state within 2 seconds following sudden load changes.

D. Safety Devices: Engine shutdown on high water temperature, low oil pressure, over-speed, and engine over-crank. Limits as selected by manufacturer.

E. Engine Accessories: Include intake air filter, fuel filter, fuel priming pump, automatic electric fuel shutoff, fuel/water separator, gear-driven water pump, positive displacement mechanical full pressure lubrication oil pump, full flow lubrication oil filters with replaceable elements, dipstick oil level indicator, and oil drain valve with hose extension. Include engine mounted battery charging alternator with solid state voltage regulator.

F. Engine Jacket Heater: Thermal circulation type water heater with integral thermostatic control, sized to maintain engine jacket water at 90 degrees F (32 degrees C). Heater voltage shall be served from existing Panelboard 'PH'.

G. Cooling System: Unit mounted radiator using glycol coolant, with blower type fan, coolant pump and thermostat temperature control sized to maintain safe engine temperature in ambient temperature of 105 degrees F. Radiator shall be provided all ductwork required with a duct adapter flange permitting the attachment of air discharge duct directing the discharge of radiator air to exterior louver location. The equipment supplier shall provide 50% ethylene glycol antifreeze solution to fill engine cooling system.

- H. **Exhaust System:** Provide critical grade silencer, with muffler companion flanges and flexible stainless steel exhaust fitting, suitable for horizontal orientation, sized in accordance with engine manufacturer's instructions. The muffler shall be mounted so its weight is not supported by the engine.
- I. Flexible exhaust connections shall be provided as required for connection between engine exhaust manifold and exhaust line, in compliance with applicable codes and regulations.
- J. Provide an exhaust condensation trap with manual drain valve to trap and drain off exhaust condensation and to prevent condensation from entering the engine. Provide drain line to drip pan.
- K. Provide a suitable rain cap at the stack outlet. Provide all necessary flanges and special fittings for proper installation.
- L. The Division 23 Contractor shall mount and install all exhaust components as required to comply with applicable codes and regulations. All components shall be properly sized to assure proper operation without excessive back pressure when installed as shown on the drawings. Make provisions as required for pipe expansion and contraction.
- M. **Fuel System:** Fuel Oil (Diesel).
- N. Provide flexible supply and return line fittings and all connections for connecting fuel system to the engine in compliance with applicable codes and regulations. All fuel piping shall be pressure tested for minimum 2 hours. Primary regulator and flexible fuel hose with stainless steel over-braid shall be provided by the generator supplier.
- O. **Batteries:** Heavy duty, diesel starting type, lead-acid storage batteries. Provide a DC 12-volt system with number of batteries and battery capacity as sized by the manufacturer adequate for (4) 30 second cranking periods (total of 2 minutes) along with all additional loads being run on the DC system. Battery submittals shall include type, amp-hour rating and cold cranking amps.
- P. **Mounting:** Provide unit with suitable spring-type vibration isolators and mount on structural steel base.
- Q. **Fuel oil storage:**
 - 1. Double Wall Secondary Containment Sub-base Fuel Tank
 - 2. The generator set shall be supplied with a sub-base fuel tank of sufficient capacity to hold 555 gallons of diesel fuel.
 - 3. The sub-base fuel system shall be listed under UL 142, subsection entitled Special Purpose Tanks EFVT category, and will bear their mark of UL Approval according to their particular classification.
 - 4. The above ground steel secondary containment rectangular tank for use as a sub base for diesel generators is manufactured and intended to be installed in accordance with the Flammable and Combustible Liquids Code—NFPA 30, the Standard for Installation and Use of Stationary Combustible Engine and Gas Turbines—NFPA 37, and Emergency and Standby Power Systems—NFPA 110.
 - 5. The primary tank shall be rectangular in shape and constructed in clam shell fashion to ensure maximum structural integrity and allow the use of a full throat fillet weld.
 - 6. Steel Channel Support System. Reinforced steel box channel for generator support, with a load rating of 5,000 lbs. per generator mounting hole location. Full

height gussets at either end of channel and at generator mounting holes shall be utilized.

7. Exterior Finish. The sub-base tank exterior finish shall be Power Armor Plus™, a polyurea-textured rubberized coating.
 8. Normal venting shall be sized in accordance with the American Petroleum Institute Standard No 2000, Venting Atmospheric and Low Pressure Storage Tanks not less than 1-1/4" (3 cm.) nominal inside diameter.
 9. The emergency vent opening shall be sized to accommodate the total capacity of both normal and emergency venting and shall be not less than that derived from NFPA 30, table 2-8, and based on the wetted surface area of the tank. The wetted area of the tank shall be calculated on the basis of 100 percent of the primary tank. The vent is to be spring-pressure operated: opening pressure is 0.5/psig and full opening pressure is 2.5 psig. The emergency relief vent is to be sized to accommodate the total venting capacity of both normal and emergency vents.
 10. There shall be a 2" NPT opening within the primary tank and lockable manual fill cap.
 11. A direct reading, UL listed, magnetic fuel level gauge with a hermetically sealed, vacuum tested dial, to eliminate fogging, shall be provided.
 12. A float switch for remote or local annunciation of a (50% standard) low fuel level condition shall be supplied.
 13. High fuel level switch – A fuel level switch will be installed in the tank and the contacts will close when the fuel level reaches 90%.
 14. Fuel in basin switch – A FDEP float switch will be installing into the containment basin of the fuel tank. This switch will close a set of contacts if fuel leaks from the main tank and into the containment basin.
 15. Inner Tank Leak Alarm Kit – Includes one light, one horn remote annunciator panel, leak alarm switch and wiring. This kit is intended when the inner tank has leaked into the outer tank, thus indicating a need for a replacement tank.
 16. Fuel fill option – The fuel fill is equipped with an OSHPD and IBC approved 5 gallon above ground fill/spill container that contains fuel over spills that may occur during fill-ups.
- R. Standard Air Cleaner
1. The air cleaner shall provide engine air filtration which meets the engine manufacturer's specifications under typical operating conditions.

2.3 ALTERNATOR

1. The alternator shall be salient-pole, brushless, 2/3-pitch, with 4 bus bar provision for external connections, self-ventilated, with drip-proof construction and amortisseur rotor windings, and skewed for smooth voltage waveform. The ratings shall meet the NEMA standard (MG1-32.40) temperature rise limits. The insulation shall be class H per UL1446 and the varnish shall be a vacuum pressure impregnated, fungus resistant epoxy. Temperature rise of the rotor and stator shall be limited to 130°C Standby. The PMG based excitation system shall be of brushless construction controlled by a digital, three phase sensing, solid- state, voltage regulator. The AVR shall be capable of proper operation under severe nonlinear loads and provide individual adjustments for voltage range, stability and volts-per-hertz operations. The AVR shall be protected from the environment by conformal coating. The waveform harmonic distortion shall not exceed 5% total RMS measured line-to-line at full rated load. The TIF factor shall not exceed 50.
2. The alternator shall have a maintenance-free bearing, designed for 40000 hour B10 life. The alternator shall be directly connected to the flywheel housing with a semi-flexible coupling between the rotor and the flywheel.

3. The generator shall be inherently capable of sustaining at least 300% of rated current for at least 10 seconds under a 3-phase symmetrical short circuit without the addition of separate current-support devices.
4. Motor starting performance and voltage dip determinations shall be based on the complete generator set. The generator set shall be capable of supplying 736.00 LRKVA for starting motor loads with a maximum instantaneous voltage dip of 35%, as measured by a digital RMS transient recorder in accordance with IEEE Standard 115. Motor starting performance and voltage dip determination that does not account for all components affecting total voltage dip, i.e., engine, alternator, voltage regulator, and governor will not be acceptable. As such, the generator set shall be prototype tested to optimize and determine performance as a generator set system.

2.4 OVER CURRENT PROTECTIVE DEVICE

- A. Provide One (1) 800 amp, 3-pole Circuit Breaker for Load Bank. Provide One (1) 400 amp., 3-pole Circuit Breaker for Fire Pump Motor. Provide mainline molded case circuit breaker, Fire Pump Circuit Breaker Shall **NOT** be field adjustable. Consult Manufacturer.
- B. Provide an additional set of load side lugs on the generator output bus to serve a remote load bank.
- C. The circuit breaker(s) shall incorporate a thermo-magnetic trip unit.
- D. Load side lugs shall be provided from the factory. The line circuit breaker shall include auxiliary contacts, shunt trip, undervoltage trip, alarm switch, and overcurrent switch functionality. Load side breaker connections made at the factory shall be separated from field connections.
- E. The shunt trip device shall be connected to trip the generator breaker when the generator-set is shut down by other protective devices.
- F. When GFI is required per the NEC, additional neutrals shall be factory installed, and the alarm indication shall be integrated with the other generator-set alarms.
- G. Barriers to provide segregation of wiring from an emergency source to emergency loads from all other wiring and equipment, if required by the NEC, shall be provided.

2.5 ACCESSORIES TO PROVIDE WITH ENGINE GENERATOR SET

- A. **Silencer:** Outdoor enclosure mounted: Critical grade, minimum 30 dB reduction. Silencer shall be located inside enclosure.
- B. **Enclosure:** Weather protective housing with the following features: Skin Type.
 1. Vandal-resistant
 2. Galvanized steel body
 3. Lifting points on base frame
 4. Stainless steel flush fitting latches and hinges
 5. Stainless steel fasteners
 6. Sheet steel components pre-treated with zinc phosphate prior to polyester powder coating.
 7. Multiple lockable panels/doors on each side installed to allow access to components requiring.
 8. maintenance.

9. Radiator fill access door with lockable cover
10. Engine cooling via airflow through enclosure
11. Lube oil and coolant drains piped to the exterior of the enclosure skid base.
12. Battery can only be reached through lockable doors.
13. Interior lighting - LED strip
14. Manual switch inside access door and GFCI WP receptacle
15. Air discharge to be vertical from radiator. Vertical air discharge to mix with engine exhaust to assist in exhaust dispersion.
16. Sound attenuation housing to limit noise level not to exceed 75dB at 23 feet.
17. Level 2 Sound Attenuated Enclosure
 - a. The generator set shall be supplied with a Level 2 Sound Attenuated Enclosure that is UL2200 listed, providing a sound level of 75.8 dB(A) while the generator is operating at 100% load at 7 meters (23 feet) using acoustic insulation and acoustic-lined inlet hoods, and constructed from high strength, low alloy 14 gauge galvanized steel. The acoustic insulation used shall meet UL 94 HF1 flammability classification. The enclosure shall be manufactured from bolted panels to facilitate service, future modifications, or field replacement. The enclosure shall use a vertically louvered air inlet and outlet hood with 90-degree angle to discharge air up and reduce noise. The enclosure shall have an integral rodent guard and skid end caps. The snow load rating shall be 70 lbs./ sq. ft. or greater.
 - b. The enclosure components and skid shall be cleaned with a two-stage alkaline cleaning process to remove grease, grit, and grime from parts. Components shall then be subjected to a Zirconium-based conversion coating process to prepare the metal for electrocoat (e-coat) adhesion. All enclosure parts shall receive an 100% epoxy primer electrocoat (e-coat) with high-edge protection. Following the e-coat process, the parts shall be finish coated with powder baked paint for superior finish, durability, and appearance with a Power Armor™ industrial finish that provides heavy duty durability in harsh conditions, and is fade-, scratch- and corrosion-resistant.
 - c. The enclosure must surpass a 3,000 hour salt spray corrosion test per ASTM B-1117.
 - d. Enclosures will be finished in the manufacturer's standard color.
 - e. The enclosures shall allow the generator set to operate at full load based on the cooling capability of the genset. The enclosure will account for no more than a 5°C derating of the ambient cooling capability of the generator.
 - f. Enclosures shall be equipped with sufficient side and end doors to allow access for operation, inspection, and service of the unit and all options. Minimum requirements are two doors per side. When the generator set controller faces the rear of the generator set, an additional rear facing door is required. Access to the controller and main line circuit breaker shall meet the requirements of the National Electric Code.
 - g. The enclosure shall be furnished with stainless steel latches, hinges and hardware on the external panels of the enclosure. Access doors shall be rubber sealed to prevent water intrusion and to minimize noise.
 - h. Doors shall be equipped with lockable latches. Locks shall be keyed alike. Door locks shall be recessed to minimize potential of damage to door/enclosure.
 - i. A duct between the radiator and air outlet shall be provided to prevent re-circulation of hot air.
 - j. The complete exhaust system shall be internal to the enclosure.
 - k. The critical silencer shall be fitted with a tailpipe and rain cap.

C. **Battery Tray:** Plastic coated metal tray treated for electrolyte resistance, constructed to contain spillage of electrolyte.

- D. **Battery Charger:** A 10-ampere voltage regulated battery charger shall be provided for the engine-generator set. Charger shall be equipped with float, taper and equalize charge settings. Charger shall include overload protection, voltage surge suppressor, DC voltmeter and fused AC input. Operational monitors shall provide visual output along with individual form C contacts rated at 4 amps, 120 VAC, 30 VDC for remote indication of:
1. Loss of AC power - red light (no relay contact)
 2. Low battery voltage - red light
 3. High battery voltage - red light (no relay contact)
 4. Charger fail - red light.
- E. **Engine-Generator Digital Control Panel - Unit mounted:**
1. Advanced Power Management 402 (APM402) Generator Set Controller
 1. The generator set controller shall be a microprocessor-based control system that will provide automatic starting, system monitoring, and protection.
 2. The controller shall be mounted on the generator set and shall have integral vibration isolation. The controller shall be prototype and reliability tested to ensure operation in the conditions encountered.
- F. Codes and Standards
1. The generator set controller shall meet NFPA 110 Level 1 requirements and shall include an integral alarm horn as required by NFPA.
 2. The controller shall meet NFPA 99 and NEC requirements.
 3. The controller shall be UL 508 recognized.
- G. Applicability
1. The controller shall be a standard offering in the manufacturer's controller product line.
 2. The controller's environmental specification shall be: -40°C to 70°C operating temperature range and 5-95% humidity, non-condensing.
- H. Controller Buttons, Display, and Components
1. The generator set controller shall include the following features and functions:
 - a. Master Control Push Buttons – the buttons shall be tactile-feel membrane with an indicator light to initiate the following functions:
 - 1) Run Mode – when in Run mode the generator set shall start.
 - 2) Off/Reset Mode – when in Off/Reset mode, the generator set shall not accept any remote start commands and shall be capable of resetting all faults, allowing for the restarting of the generator set after a shutdown.
 - 3) Auto Mode – when in Auto mode, the generator set shall be ready to accept a signal from a remote device.
 - b. Emergency Stop Switch – the latch type stop switch shall be red in color with a “mushroom” type head. Depressing the stop button will immediately stop the generator set and lockout the generator set for any automatic remote starting.
 - c. Alarm Horn – the horn sounds when any faults or warnings are present. The horn shall also sound when the controller is not in the Auto mode.
 - d. Push Button/Rotary Selector Dial – the dial shall be used for selection of all menus and sub-menus. Rotating the dial moves through the menus, pushing the dial selects the menu and function/features in the menu.
 - e. Display – the digital display shall be alphanumeric, with 2 lines of data and approximately 24 characters. The display shall have back lighting for ease of operator use in high and low light conditions. The display shall enter a sleep mode to reduce the demand on the battery when the generator set is not

running, and the rotary dial is not in use for a period of time. The generator will wake up from sleep mode when the generator set starts, or the rotary dial is in use.

- f. Fault Light – the controller shall have an annunciator fault light that glows red for faults and yellow for warnings. The warning light will also illuminate when not in Auto.
 - g. Alarm Silence/Lamp Test Button – when this button is held, it shall test all controller lamps. This button will also silence the alarm horn when the unit is not Auto or has a fault.
 - h. Mini-USB Connection – the controller shall have a mini-USB connection port for a PC connection that is accessible on the front of the control panel without having to open any electrical enclosure panels on the generator. This connection shall allow a certified technician to service the generator controller using a dedicated PC program. The program shall allow for servicing of generator set parameters, faults diagnostics and viewing of controller information. The program shall allow for uploading of software and firmware as well as downloading of parameter settings and the event log.
- I. Controller Engine Control Features and Functions
- 1. User-programmable time delay for engine start.
 - 2. User-programmable time delay engine cool down.
 - 3. Capability to start and run at user-adjustable idle speed during warm-up for a selectable time-period until engine reaches preprogrammed temperature.
 - 4. The idle function including engine cooldown at idle speed.
 - 5. Output with adjustable timer for an ether injection starting system.
 - 6. Programmable cyclic cranking that can adjust on time, off time, and number of cycles.
- J. Controller Alternator Control Features and Functions
- 1. Patented High-speed RMS Digital Voltage Regulation – the system shall have integral microprocessor-based voltage regulator system that provides + 0.5% voltage regulation no-load to full load with three phase sensing. A separate voltage regulator is not acceptable. The digital voltage regulator shall be applicable to single- or three-phase systems. The system shall be prototype tested and control variation of voltage to frequency. The voltage regulator shall be adjustable at the controller with maximum + 10% adjustable of nominal voltage.
 - 2. Alternator Thermal Overload Protection – the system shall have integral alternator overload and short circuit protection matched to each alternator for the particular voltage and phase configuration.
- K. Other Control Features and Functions
- 1. Event Logging – the controller keeps a record of up to 1,000 events with date and time locally for warning and shutdown faults. This event log can be downloaded onto a PC through the service program.
- L. Control Monitoring Requirements
- 1. The generator controller shall display and monitor the following engine and alternator functions.
 - a. The following generator set functions shall be monitored:
 - 1) All output voltages - single phase, three-phase, line to line, and line to neutral
 - 2) All single phase and three phase currents
 - 3) Output frequency
 - 4) kVA total and per phase

- 5) kW hours
 - b. Engine parameters listed below shall be monitored (engine dependent):
 - 1) Engine Speed
 - 2) Oil Pressure
 - 3) Coolant Temperature
 - 4) Battery Voltage
 - 5) Runtime Hours
 - 6) Fuel Pressure or Level
 - 7) Fuel Consumption Rate
 - c. Operational records shall be stored in the control beginning at system startup
 - 1) Total Run Time Hours
 - 2) Total Loaded Hours
 - 3) Total kW Hours
 - 4) Number of Starts
 - d. For maintenance and service purposes, the controller shall store and display on demand the information:
 - 1) Generator Model
 - 2) Generator Serial Number
 - 3) Controller Serial Number
- M. Generator Set Warning, Shutdown Alarm and Status
1. The generator set shall have alarms and status indication lamps that show Non-Automatic Status, Warning, and Shutdown conditions. The controller shall indicate with a warning lamp and/or alarm, and on the digital display screen any shutdown, warning, or engine fault condition that exists in the generator set system.
 2. Conditions, as a minimum, resulting in generator shutdown (engine dependent):
 - a. AC Sensing Loss
 - b. Alternator Protection
 - c. ECM Address Conflict
 - d. ECM Communications Loss
 - e. ECM DTCs
 - f. Emergence Stop
 - g. Overspeed
 - h. Underspeed
 - i. High Coolant Temperature
 - j. kW Overload
 - k. Locked Rotor
 - l. Loss of Fuel
 - m. Low Coolant Level
 - n. Low Engine Oil Level
 - o. Low Fuel Level
 - p. Low Oil Pressure
 - q. No Coolant Temperature Signal
 - r. No Oil Pressure Signal
 - s. Overcrank
 - t. Overfrequency
 - u. Underfrequency
 - v. Overvoltage
 - w. Undervoltage
 3. Conditions, as a minimum, resulting in generator warning (generator will continue to operate) (engine dependent):
 - a. AC Sensing Loss (short period of time)
 - b. Battery Charger Communication Loss
 - c. Battery Charger Fault

- d. Battery Fault
- e. Critical High Fuel Level
- f. High Fuel Level
- g. Low Fuel Level or Pressure
- h. Fuel Tank Leak
- i. Ground Fault
- j. High Battery Voltage
- k. Low Battery Voltage
- l. Low Cranking Voltage
- m. High Coolant Temperature
- n. Low Coolant Temperature
- o. Low Engine Oil Level
- p. Low Oil Pressure
- q. Not in Auto
- r. Speed Sensor Fault
- s. ECM DTCs

N. Inputs and Outputs

1. Standard Dedicated User Inputs – the controller shall have dedicated inputs for:
 - a. Two-Wire Input
 - 1) Remote Engine Start
 - b. Digital Input - Fixed
 - 1) Auxiliary Fault (Shutdown)
 - 2) Remote Emergency Stop
 - c. Digital Input – Programmable
 - 1) 3 Dry Contact
2. Standard Dedicated User Outputs – the controller shall have dedicated outputs for:
 - a. Relay Driver Output - Programmable
 - 1) 1 Relay
3. Optional Configurable User Inputs and Outputs
 - a. User Configurable Inputs
 - 1) 2 Dry Contact Digital
 - b. User Configurable Relay Outputs
 - 1) 5 NO/NC Relays

O. Communications

1. CAN
 - a. If the generator set engine is equipped with an ECM, the controller shall communicate with the ECM for control, monitoring, diagnosis, and meet SAE J1939 standards.
2. Modbus®
 - a. Isolated for Modbus devices

P. **Auxiliary Relay:** 3PDT, operates when engine runs, with contact terminals prewired to terminal strip.

Q. **Remote Alarm Contacts:** Pre-wire form C contacts to terminal strip for remote alarm functions required by ANSI/NFPA 110.

R. **Remote Emergency Stop “Mushroom” Switch:**

1. Provide emergency shut off switch on the unit generator and one remote mounted device at location indicated on drawings. Remote mounted devices installed outdoors shall be installed in approved wet location wiring method.
2. Shut off switch: Red button with (2) N.O. and (2) N.C. contact block. Switch shall

- be capable of lockout and tag-out.
3. Provide label with "Emergency Shut Down"- White letters on Red background.
 4. Provide all wiring, raceways and mounting systems as required.
- S. **Generator Source Alarm Annunciation/Indication:**
1. Provide audio/visual alarm indication to generator control panel and to remote annunciator panel if the generator output circuit breaker(s) or OCPD serving the emergency side of each automatic transfer switch is in the "Tripped or "Open" position. Provide monitoring micro-switches. Provide wiring diagram at equipment submittal. Green light to indicate OCPD is closed and Red light to indicate OCPD is open. One point per each OCPD. Provide all wiring, raceway and contacts as required for this function. Separation between NEC article 700 wiring shall be maintained.
 2. Provide wiring diagram at equipment submittal.
- T. **Generator Feeder:** The ampacity of the conductors from the generator terminals to the first distribution device containing overcurrent protection shall not be less than 115% of the nameplate current rating of the generator.
- U. **Accessories:**
1. The generator shall be supplied with a thermostatically controlled strip heater to prevent the accumulation of moisture and dampness and to maintain the stator windings above the dew point. The heater shall be wired to be "on" at all times that the generator set is not operating.
 2. Enclosure shall have an external emergency stop button that is recessed in the enclosure panel for protection.
 3. The generator shall be equipped with a crankcase vent. The fumes coming from the vent (Blow-by) will need to be contained with the solids being separated and collected while the gases are being released back into the engine.
 4. The air cleaner restriction indicator shall indicate the need for maintenance of the air cleaners.
 5. Battery rack and battery cables capable of holding the manufacturer's recommended batteries shall be supplied.
 6. The exhaust piping shall be gas proof, seamless, stainless steel, flexible exhaust bellows and includes the flex exhaust tube and the mounting hardware.
 7. Supply flexible fuel lines to provide a flexible connection between the engine fuel fittings and the fuel supply tank piping and for the fuel return lines from the injector pump per engine manufacturer's recommendations. Flex line shall have a protective steel wire braid to protect the hose from abrasion.
 8. Block Heater - The block heater shall be thermostatically controlled, 2,500 watt, with isolating valves, to maintain manufacturers recommended engine coolant temperature to meet the start-up requirements of NFPA 99 and NFPA 110, Level 1.
 9. The generator set shall be provided with a run relay which shall provide a three-pole, double-throw relay with 10-amp/ 250 VAC contacts to indicate that the generator is running. The run relay dry contacts can be used for energizing or de-energizing customer devices while the generator is running (e.g. louvers, indicator lamps, etc

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that required utilities are available in proper location and ready for use.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Generator set shall be anchored to concrete pad.
- C. Feeder wiring serving emergency loads shall be installed per NEC 700.10(D)(1) through (D)(3).
- D. Generator installations shall be provided with battery powered emergency lighting. This shall include units mounted within exterior enclosures.
- E. Generators shall be provided with emergency power to integral fuel transfer pumps.
- F. Generator Emergency Shutdown switch shall be located on exterior building adjacent to exterior generator enclosure.
- G. **Grounding:** When 4-pole transfer switches are utilized, the generator shall be installed and connected as a separately derived system and the factory installed generator ground/neutral bonding strap shall be maintained.
- H. **Labeling:** Provide a sign at service entrance equipment indicating type and location of onsite emergency power sources (EPS).

3.3 FIELD QUALITY CONTROL

- A. Provide full load testing utilizing a portable test bank for four hours continuous, minimum. During the first two hours, step increase the load from 0% to 100% in at least six equal steps. At the end of two hours, continue running test at 100% load. Record the following in 20-minute intervals throughout the four-hour test: kilowatts, amperes, voltage, coolant temperature, room temperature, generator frequency (Hz), oil pressure, fuel consumption.
- B. After the generator has cooled down from the four-hour test, shut it down and then simulate a power failure including operation of the transfer switches, automatic cycle, and automatic shutdown and return to normal.

3.4 AGENCY TRAINING

- A. Provide two (2) hour training for Western Technical College Facility Maintenance Department.

3.5 WARRANTY

- A. Provide Two (2) Year Warranty.

END OF SECTION 26 32 00

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Consultant:



Point of Beginning
Civil Engineering
Land Surveying
Landscape Architecture
4941 Kneshing Court
Stevens Point, WI 54481
715.344.9999 (Ph) 715.344.9922 (F)

WESTERN TECHNICAL COLLEGE
SPARTA PUBLIC SAFETY EXPANSION

11177 COUNTY ROAD A
SPARTA, WI 54656

DEMOLITION PLAN

Project Title:

HSR Project Number: 20028

Project Date: FEBRUARY 2021

Drawn By: POB

Project Location:

Project Number:

Project Date:

Drawn By:

GENERAL NOTES:

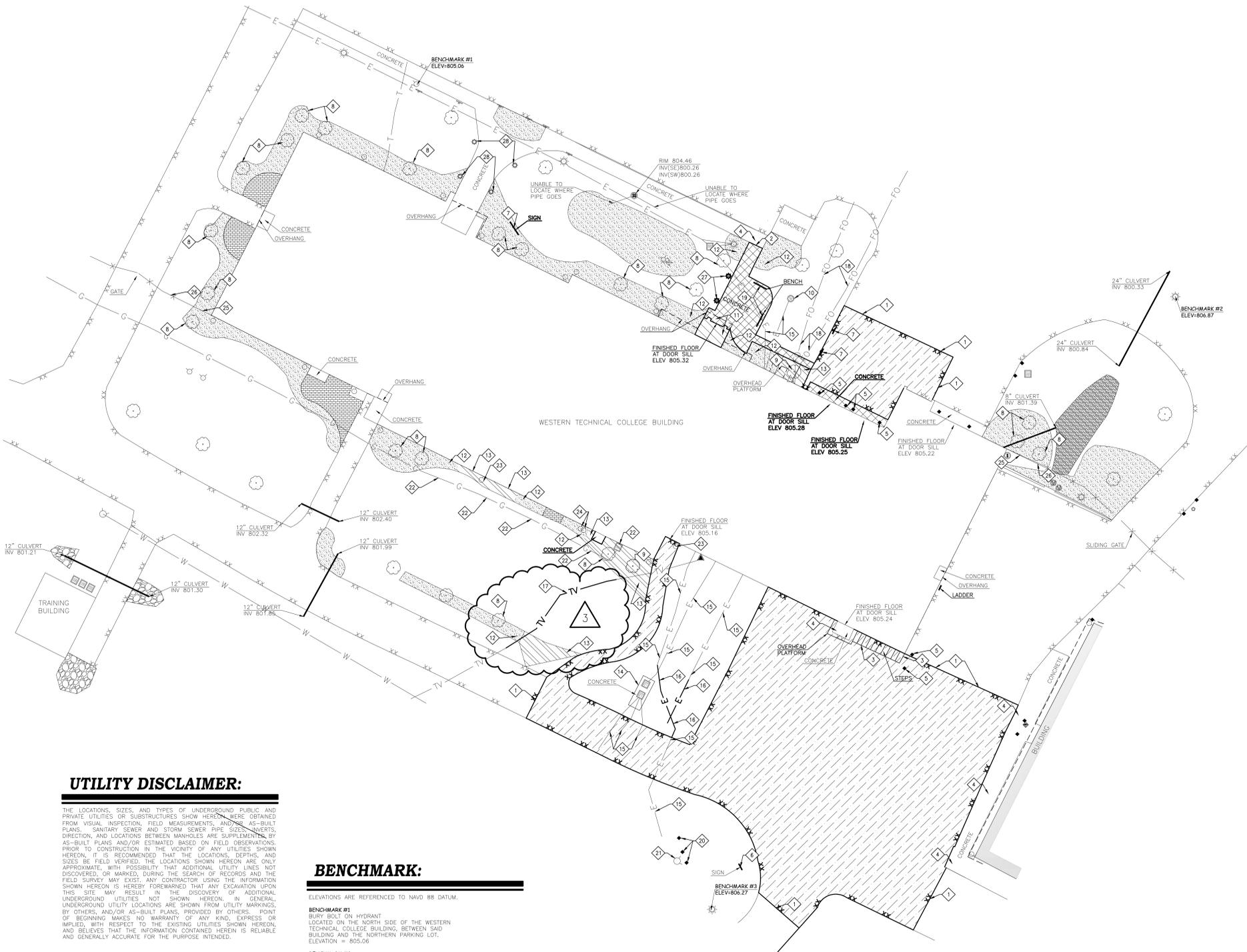
- CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
- ALL DEMOLITION MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER EXCEPT FOR THOSE ITEMS NOTED TO BE SALVAGED, WHICH SHOULD BE TURNED OVER TO THE OWNER.
- INSTALL AND MAINTAIN ALL REQUIRED EROSION CONTROL MEASURES FOR PERIMETER PROTECTION PRIOR TO THE START OF DEMOLITION/CONSTRUCTION, IN ACCORDANCE WITH THE LOCAL AND STATE GOVERNING AUTHORITIES.
- BIDDERS SHALL VISIT THE SITE AND REVIEW EXISTING CONDITIONS PRIOR TO THE BID DATE.
- COORDINATE WITH THE OWNER AND LOCAL UTILITY COMPANIES TO LOCATE ANY EXISTING UTILITIES ON SITE PRIOR TO THE START OF WORK.
- ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED, AND/OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR AND INCLUDED IN THE BASE BID CONTRACT.
- STRIP TOPSOIL WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH THE PROJECT MANUAL SPECIFICATIONS.
- IF STRIPPED TOPSOIL IS STOCKPILED ON SITE, SILT FENCE SHALL BE INSTALLED AROUND THE BASE OF THE STOCKPILE TO PREVENT SEDIMENT TRANSPORT.
- PRIOR TO PERFORMING WORK WITHIN PUBLIC RIGHT OF WAYS, NOTIFY AND COORDINATE WORK WITH THE LOCAL MUNICIPALITY.
- MAINTAIN TRAFFIC CIRCULATION TO ALL RETAIL AND COMMERCIAL BUILDINGS SHOWN ON THIS DOCUMENT. COORDINATE ALL WORK WITH SAID BUSINESSES.

KEYNOTES:

- SAWCUT EXISTING BITUMINOUS PAVEMENT
- SAWCUT EXISTING CONCRETE WALK
- SEE ARCHITECTURAL PLANS FOR DEMO OF EXISTING STEPS
- MAINTAIN EXISTING CONCRETE WALK
- REMOVE EXISTING BOLLARDS
- MAINTAIN EXISTING SIGN
- REMOVE/SALVAGE EXISTING SIGN; RETURN TO OWNER
- MAINTAIN EXISTING TREE/VEGETATION
- SALVAGE EXISTING TREE; TO BE RE-PLANTED BY CONTRACTOR
- MAINTAIN EXISTING WATER SERVICE/WELL
- SEE ARCHITECTURAL PLANS FOR DEMOLITION IN THIS AREA
- MAINTAIN EXISTING LANDSCAPE AREA: TREES, SHRUBS, MULCH AND FILTER FABRIC - VERIFY WITH LANDSCAPE PLAN
- REMOVE EXISTING LANDSCAPE AREA: SHRUBS, MULCH AND FILTER FABRIC
- MAINTAIN ELECTRICAL TRANSFORMER
- MAINTAIN EXISTING ELECTRICAL LINE
- RELOCATE EXISTING ELECTRICAL LINE; SEE ELECTRICAL PLANS FOR NEW LOCATION; COORDINATE W/ ELECTRICIAN AND UTILITY COMPANY
- RELOCATE EXISTING CABLE TV LINE THAT CONFLICTS WITH PROPOSED RAIN GARDEN
- MAINTAIN EXISTING FIBER OPTIC LINE
- REMOVE/SALVAGE EXISTING BENCHES; RETURN TO OWNER
- MAINTAIN EXISTING BOLLARD
- MAINTAIN EXISTING HYDRANT
- MAINTAIN EXISTING GAS LINE
- RELOCATE EXISTING ROOF DOWNSPOUT; SEE ARCHITECTURAL PLANS FOR DETAILS
- MAINTAIN EXISTING ROOF DOWNSPOUT
- REMOVE/SALVAGE EXISTING FENCE
- MAINTAIN EXISTING FENCE
- REMOVE/SALVAGE EXISTING LIGHT; RETURN TO OWNER
- MAINTAIN EXISTING LIGHT

DEMOLITION HATCH PATTERNS:

- BITUMINOUS REMOVAL
- CONCRETE REMOVAL
- SEE ARCHITECTURAL PLAN FOR DEMO IN THIS AREA
- LANDSCAPE REMOVAL



UTILITY DISCLAIMER:

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BENCHMARK:

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

BENCHMARK #1
BURY BOLT ON HYDRANT
LOCATED ON THE NORTH SIDE OF THE WESTERN TECHNICAL COLLEGE BUILDING, APPROXIMATELY 100 FEET NORTHEAST OF THE NORTHEAST CORNER OF SAID BUILDING AND THE NORTHERN PARKING LOT.
ELEVATION = 805.06

BENCHMARK #2
SOUTHEAST BOLT ON LIGHT POLE BASE
LOCATED NORTHEAST OF THE WESTERN TECHNICAL COLLEGE BUILDING, APPROXIMATELY 100 FEET NORTHEAST OF THE NORTHEAST CORNER OF SAID BUILDING.
ELEVATION = 806.87

BENCHMARK #3
NORTHWEST BOLT ON LIGHT POLE BASE
LOCATED ON THE SOUTH SIDE OF THE WESTERN TECHNICAL COLLEGE BUILDING, SOUTH OF THE SOUTHERN PARKING LOT.
ELEVATION = 806.27



Revisions:

No.	Description	Date
3	See Addendum 3	2/26/2021

Graphic Scale:

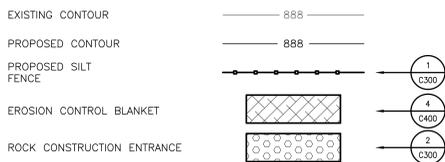
1"=20'

Last Update:

2/26/2021

C100

EROSION CONTROL LEGEND:

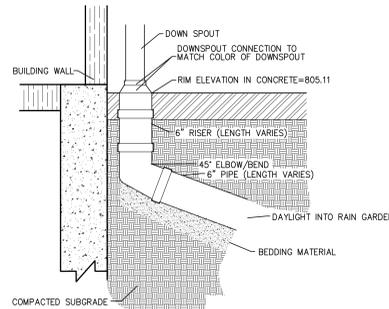


EROSION CONTROL SEQUENCING:

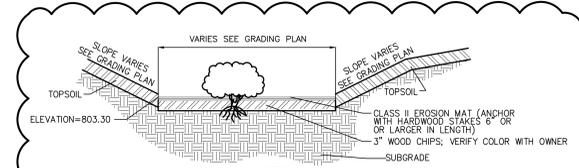
1. INSTALL PERIMETER EROSION CONTROL
2. BEGIN DEMOLITION
3. BEGIN ROUGH GRADING AND UTILITY INSTALLATION
4. ANY EXISTING GRASS AND VEGETATION TO BE REMOVED DURING GRADING ACTIVITIES, SHALL REMAIN IN PLACE FOR AS LONG AS POSSIBLE, TO AVOID SEDIMENT TRANSPORT.
5. TEMPORARY STABILIZATION ACTIVITY SHALL COMMENCE WHEN LAND DISTURBING CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
6. FINAL STABILIZATION ACTIVITY SHALL COMMENCE WHEN LAND DISTURBING ACTIVITIES CEASE AND FINAL GRADE HAS BEEN REACHED ON ANY PORTION OF THE SITE.
7. IF DISTURBED AREAS MUST BE LEFT OVER WINTER, AN ANIONIC POLYACRYLAMIDE SHALL BE APPLIED TO ALL DISTURBED AREAS PRIOR TO GROUND FREEZE. SEE SPECIFICATIONS FOR DETAILS.

GENERAL NOTES:

1. CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
2. NOTIFY THE LOCAL MUNICIPALITY AT LEAST 2 WORKING DAYS PRIOR TO THE START OF SOIL DISTURBING ACTIVITIES.
3. INSTALL ALL TEMPORARY EROSION CONTROL ELEMENTS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
4. ALL ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE AMOUNT OF BARE SOIL EXPOSED AT ANY ONE TIME. MAINTAIN EXISTING VEGETATION AS LONG AS POSSIBLE.
5. CRUSHED ROCK DRIVES FOR SEDIMENT TRACKING UTILIZING 3" CRUSHED ROCK SHALL BE MAINTAINED AT ALL CONSTRUCTION ENTRANCES TO THE SITE. THE ROCK DRIVE SHALL BE A MINIMUM OF 12" THICK AND BE A MINIMUM OF 50 FEET IN LENGTH BY THE WIDTH OF THE DRIVEWAY.
6. OFF SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF A STORM EVENT SHALL BE CLEANED UP BY THE END OF THE NEXT WORK DAY. ALL OFF SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION ACTIVITIES, INCLUDING SOIL TRACKED BY CONSTRUCTION TRAFFIC, SHALL AT A MINIMUM BE CLEANED BY THE END OF EACH WORK DAY. EXCESSIVE AMOUNTS OF SEDIMENT OR OTHER DEBRIS TRACKED ONTO ADJACENT STREETS SHALL BE CLEANED BY THE END OF EACH WORK DAY. EXCESSIVE AMOUNTS OF SEDIMENT OR OTHER DEBRIS TRACKED ONTO ADJACENT STREETS SHALL BE CLEANED IMMEDIATELY. FINE SEDIMENT ACCUMULATIONS SHALL BE CLEANED FROM ADJACENT STREETS BY THE USE OF MECHANICAL OR MANUAL SWEEPING OPERATIONS ONCE A WEEK AT A MINIMUM AND BEFORE IMMINENT RAIN EVENTS.
7. DISTURBED AREAS OUTSIDE OF THE EVERYDAY CONSTRUCTION AREAS, INCLUDING SOIL STOCKPILES, THAT ARE LEFT INACTIVE FOR MORE THAN 7 DAYS SHALL BE TEMPORARILY STABILIZED BY SEEDING/MULCHING OR OTHER APPROVED METHODS.
8. WASTE MATERIAL THAT IS GENERATED ON THE CONSTRUCTION SITE SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO RUN INTO RECEIVING WATERS.
9. EROSION CONTROL DEVICES DESTROYED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE END OF EACH WORK DAY.
10. INSPECT ALL EROSION CONTROL MEASURES AT LEAST ONCE A WEEK AND AFTER ANY RAINFALL OF 0.5" OR MORE. MAKE NEEDED REPAIRS AND DOCUMENT ALL ACTIVITIES AS PER THE REQUIREMENTS OF THE NOTICE OF INTENT SUBMITTED BY THE PROJECT CIVIL ENGINEER.
11. ALL TEMPORARY EROSION CONTROL ELEMENTS SHALL REMAIN IN PLACE UNTIL A SUFFICIENT GROWTH OF VEGETATION IS ESTABLISHED AND THEN BE REMOVED AS PART OF THE BASE BID.
12. IF SEDIMENT LADEN WATER NEEDS TO BE REMOVED FROM THE SITE, FILTER BAGS OR SCREENING SHALL BE USED IN ACCORDANCE WITH WI DNR TECHNICAL STANDARD 1061 TO PREVENT SEDIMENT DISCHARGE TO THE MAXIMUM EXTENT PRACTICABLE.
13. COORDINATE ALL EARTHWORK ACTIVITIES WITH THE RESPECTIVE TRADES RESPONSIBLE FOR THE INSTALLATION OF GAS, CABLE, TELEPHONE AND ELECTRICAL (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND SIGNAGE).
14. PROVIDE RIP RAP AT ALL CULVERT ENDWALL STRUCTURES TO PREVENT WASHOUT AND EROSION.
15. INSTALL WIDOT TYPE HIR FILTER FABRIC BENEATH UNDER RIP RAP.
16. IF BARE SOIL IS EXPOSED DURING THE WINTER MONTHS, STABILIZATION BY MULCHING OR ANIONIC POLYACRYLAMIDE SHALL OCCUR PRIOR TO SNOWFALL OR GROUND FREEZE.
17. SILT FENCE SHALL BE INSTALLED AROUND THE TOPSOIL STOCKPILE.
18. THE CONTRACTOR SHALL PERFORM INSPECTIONS AND MONITORING OF EROSION CONTROL PRACTICES IN ACCORDANCE WITH THE WI DNR "CONSTRUCTION SITE INSPECTION REPORT" FORM 3400-187. THIS FORM CAN BE FOUND IN THE CONSTRUCTION SPECIFICATIONS.

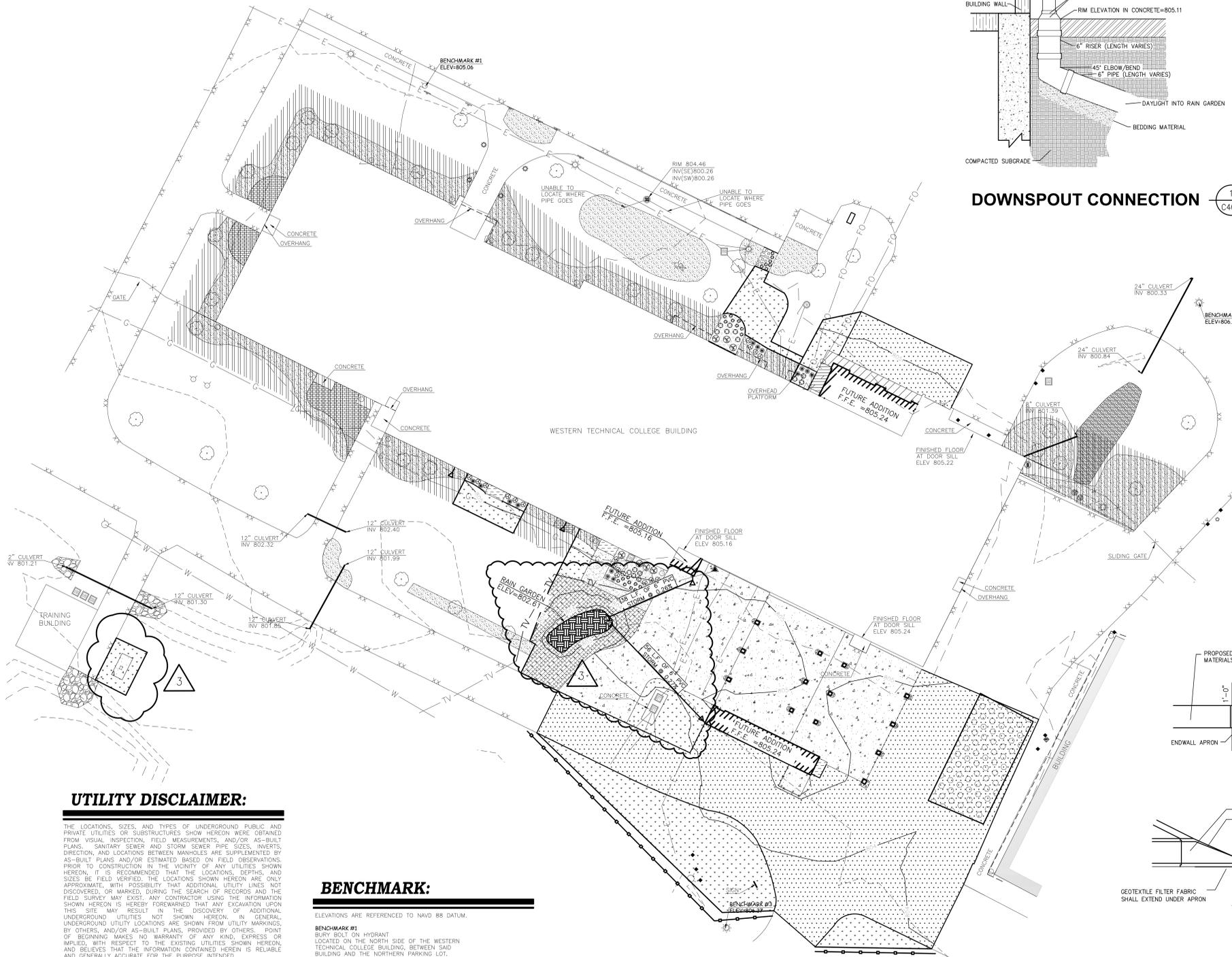


DOWNSPOUT CONNECTION



RAIN GARDEN

SYMBOL	BOTANICAL NAME	COMMON NAME	INSTALLATION SIZE	TOTAL
●	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	1 GAL	40
○	CAREX VULPINOIDEA	FOX SEDGE	1 GAL	53
○	RATIBIDA PINNATA	YELLOW CONEFLOWER	1 GAL	37
○	MONARDA FISTULOSA	BERGAMOT	1 GAL	54

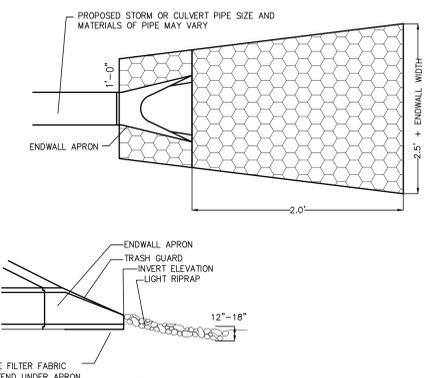


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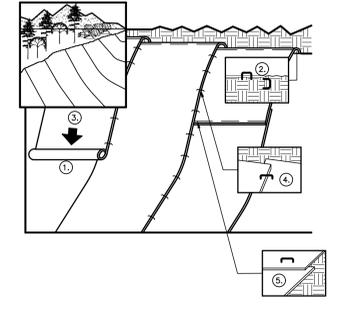
BENCHMARK:

- ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.
- BENCHMARK #1**
SOUTHWEST BOLT ON HYDRANT
LOCATED ON THE NORTH SIDE OF THE WESTERN TECHNICAL COLLEGE BUILDING, APPROXIMATELY 100 FEET NORTHWEST OF THE NORTHEAST CORNER OF SAID BUILDING.
ELEVATION = 805.06
 - BENCHMARK #2**
SOUTHWEST BOLT ON LIGHT POLE BASE
LOCATED NORTHEAST OF THE WESTERN TECHNICAL COLLEGE BUILDING, APPROXIMATELY 100 FEET NORTHWEST OF THE NORTHEAST CORNER OF SAID BUILDING.
ELEVATION = 806.87
 - BENCHMARK #3**
NORTHWEST BOLT ON LIGHT POLE BASE
LOCATED ON THE SOUTH SIDE OF THE WESTERN TECHNICAL COLLEGE BUILDING, SOUTH OF THE SOUTHERN PARKING LOT.
ELEVATION = 806.27



STORM PIPE W/ RIPRAP

NOTES:
ENDWALL APRON SHALL BE PLACED LEVEL WITH THE TOP OF THE RIPRAP.
PLACE FILTER FABRIC BENEATH THE PROPOSED RIPRAP. RIPRAP SHALL BE PLACED ONLY AT DISCHARGE END PIPE.
SEE UTILITY PLAN FOR LOCATION



EROSION CONTROL BLANKETS

GENERAL NOTES:
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED. NOTE: WHEN USING CELL-TO-SEED DO NOT SEED PREPARED AREA. CELL-TO-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKETS DOWN THE SLOPE IN THE DIRECTION OF THE WATER FLOW.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP. WHEN BLANKETS MUST BE SPICED DOWN THE SLOPE PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAPPED AREA APPROXIMATELY 12" APART.



HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.784.5844
WEB SITE: www.hsrassociates.com

Consultant:
POB
Point of Beginning
Civil Engineering
Land Surveying
Landscape Architecture
4941 Keating Court
Stevens Point, WI 54481
715.344.9999 [PH] 715.344.9922 [FX]

WESTERN TECHNICAL COLLEGE
SPARTA PUBLIC SAFETY EXPANSION
11177 COUNTY ROAD A
SPARTA, WI 54656
EROSION CONTROL / UTILITY PLAN

Project Title:
HSR Project Number:
20028

Project Date:
FEBRUARY 2021

Drawn By:
POB

Revisions:

No.	Description	Date
3	See Addendum 3	2/26/2021

Graphic Scale:
1"=20'

Last Update:
2/26/2021

C400



Consultant:

WESTERN TECHNICAL COLLEGE
SPARTA PUBLIC SAFETY EXPANSION
Project Title: WESTERN TECHNICAL COLLEGE SPARTA PUBLIC SAFETY EXPANSION
Project Location: 11177 COUNTY ROAD A SPARTA, WI 54656
Sheet Title: FIRST FLOOR PLAN - AREA A

HSR Project Number: 20028

Project Date: FEBRUARY 2021

Drawn By: MM/RW/MPL

Key Plan:



KEY PLAN

No.	Description	Date
A02	ADDENDUM 2	2-24-21
A03	ADDENDUM 3	2-26-21

Graphic Scale: VARIES

Last Update: 2/26/2021 8:09:28 AM

A100

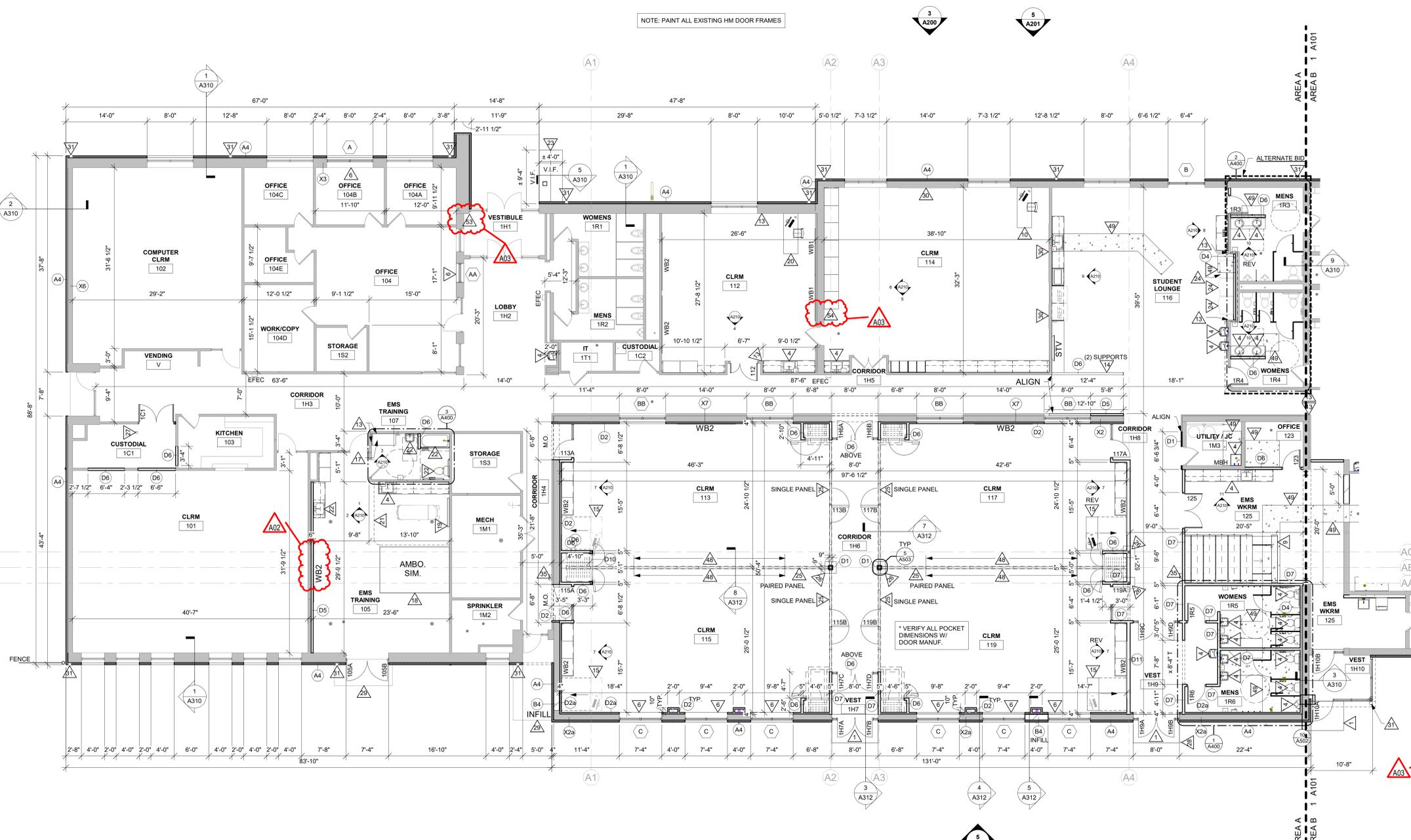
EQUIPMENT SCHEDULE				OWNER FURNISHED (SEE REMOVAL)	CONTR. FURNISHED	OWNER INSTALLED	CONTR. INSTALLED
BB	72"x48" BULLETIN BOARD	STD. MOUNTING HEIGHT	TOP @ 6'-10" A.F.F.		X	X	
MBH	MOP AND BROOM HOLDER	TOP @ 5'-0" A.F.F.			X	X	
P	CEILING MOUNTED PROJECTOR	COORDINATE W/OWNER		X	X	X	
PS1	86" MOTORIZED WALL MOUNTED PROJECTION SCREEN	COORDINATE W/OWNER			X	X	
PS2	86" MOTORIZED CEILING MOUNTED PROJECTION SCREEN	COORDINATE W/OWNER			X	X	
STV	SMART TELEVISION (SIZE BY OWNER)	COORDINATE W/OWNER		X	X	X	
WB1	60"x48" WHITE BOARD	TOP @ 6'-10" A.F.F.			X	X	
WB2	120"x48" WHITE BOARD	TOP @ 6'-10" A.F.F.			X	X	

EQUIPMENT SCHEDULE GENERAL NOTES:
1. CONFIRM EXACT LOCATION OF EACH ITEM WITH OWNER PRIOR TO INSTALLATION.
2. SEE A400 FOR ACCESSORIES SCHEDULE.

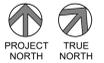
- PLAN GENERAL NOTES:**
- REFER TO OVERALL PLANS FOR FIRE RATING LOCATIONS AND ACCESSIBILITY ROUTES.
 - SEE ID SHEETS FOR FLOOR AND WALL FINISH LAYOUTS.
 - LOOSE FURNISHINGS EXCEPT AS NOTED SHALL BE PROVIDED AND INSTALLED BY THE OWNER.
 - FIXED EQUIPMENT IS SHOWN ON THIS PLAN FOR COORDINATION. SEE SHEETS A100 FOR ALL EQUIPMENT NOTES.
 - UNLESS NOTED OTHERWISE RESTROOM FLOORS SHALL BE SLOPED A MIN. 1/16" - 1/2" TO FLOOR DRAINS - TO CENTER, IF NO FLOOR DRAINS. PAINT ALL EXPOSED STEEL LINTELS.
 - EXTEND ALL WALLS TO DECK UNLESS NOTED OTHERWISE. SEE A401 FOR TOP OF WALL DETAILS.
 - INSTALL BULLNOSE CMU AT ALL OUTSIDE CORNERS W/O WIE AND AT DOOR JAMBS AS DETAIL. NO BULLNOSE AT WINDOW JAMBS.
 - SEE A501 FOR WALL CONTROL JOINT DETAILS. SEE PLANS AND ELEVATIONS FOR CJ LOCATIONS. CJ = CONTROL JOINTS.
 - SEE A503 FOR TYPICAL HEAD FLASHING AND THROUGH-WALL FLASHING ISOMETRIC DETAILS.
 - SEE STRUCTURAL FOR SLAB CONTROL JOINTS.
 - GENERAL CONTRACTOR TO PROVIDE CONCRETE EQUIPMENT PADS/CURBS AS REQUIRED FOR MECHANICAL/ELECTRICAL EQUIPMENT. VERIFY SIZE, PROFILE & LOCATION WITH MECHANICAL/ELECTRICAL.
 - VERIFY EXACT SIZE AND LOCATION OF ALL MECHANICAL/PLUMB AND ELEC OPENINGS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH AT ALL VISIBLE AREAS. ALL OPENING SHALL BE SEALED AFTER UTILITY INSTALLATION.

- LEGEND:**
- (A) SYMBOL INDICATES WALL TYPE - SEE SHEET A600 FOR WALL TYPE DETAILS.
 - (A) SYMBOL INDICATES WINDOW TYPE. SEE SHEET A600 FOR WINDOW FRAME ELEVATIONS.
 - △ SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET
 - 1 HOUR WALL
 - WALL SECTION
 - BUILDING SECTION
 - CONCRETE IN-FILL - SEE PLUMBING / STRUCTURAL SHEETS
 - WOOD FRAMING IN-FILL - SEE STRUCTURAL SHEETS
 - PRECAST CONCRETE IN-FILL - SEE STRUCTURAL SHEETS
 - EFE EXISTING FIRE EXTINGUISHER
 - EFEC EXISTING FIRE EXTINGUISHER CABINET

- KEY NOTES PLAN**
- INSTALL NEW CONCRETE FROST STOOP - SEE STRUCTURAL SHEETS.
 - INSTALL NEW CONCRETE SLAB-ON-GRADE W/ RADIANT IN-FLOOR HEAT & INSULATION - SEE MECHANICAL & STRUCTURAL SHEETS.
 - INSTALL NEW CONCRETE SLAB-ON-GRADE - SEE STRUCTURAL SHEETS.
 - INSTALL NEW PLUMBING FIXTURE - SEE PLUMBING SHEETS.
 - STACKABLE WASHER / DRYER (N.I.C.) - INSTALLATION BY G.C. - SEE ELECTRICAL & PLUMBING SHEETS.
 - INSTALL NEW SOLID SURFACE WINDOW STOOL - SEE CIVIL SHEETS.
 - INSTALL NEW BOLLARD & CONC. CURB - BY OWNER (N.I.C.)
 - ICE MACHINE (N.I.C.) - HOOK-UPS BY G.C. - SEE ELECTRICAL & PLUMBING SHEETS.
 - INSTALL NEW HIGH DENSITY MOBILE STORAGE UNIT.
 - EXISTING TEACHING STATION (N.I.C.)
 - INSTALL SALVAGED JAN. CELL DOOR.
 - INSTALL NEW SLAB-ON-GRADE OVER PIT INFILL - SEE STRUCTURAL SHEETS.
 - PATCH, PREP & PAINT WALL AT REMOVED WALL / CASEWORK.
 - INSTALL HALF-WALL W/ PARTIAL HEIGHT WALL FRAMING SUPPORT - TOP @ 48" NOMINAL - CON. WALL W/ SOLID SURFACE TOP.
 - MOBILE TEACHING STATION - BY OWNER (N.I.C.)
 - INSTALL NEW METAL STAIR AND RAILING UP TO EXISTING MEZZANINE.
 - PATCH CONCRETE SLAB DOWEL NEW SLAB TO EXISTING SLAB W/ #4 X 1'-0" DOWELS @ 16" O.C. DRILL & EPOXY IN EXISTING SLAB W/ 4" EMBEDMENT.
 - AMBULANCE SIMULATOR (N.I.C.) - SEE ELECTRICAL SHEETS FOR HOOK-UPS. COORDINATE W/ OWNER FOR INSTALLATION.
 - INSTALL WALL MOUNTED HEAD UNIT - OWNER PROVIDED. COORDINATE W/ OWNER FOR FINAL INSTALL LOCATION. SEE ELECTRICAL SHEETS.
 - TEACHING STATION (N.I.C.)
 - INSTALL CUBICLE CURTAIN ATTACHED TO TRACK ON DROPPED CEILING TILE.
 - NON-OPERABLE DEMONSTRATION FIXTURE - SEE PLUMBING SHEETS.
 - INSTALL CAST STONE BENCH TOP/SEAT - SEE SHEET A501 FOR SLOPE DIRECTION.
 - VENDING MACHINE (N.I.C.) - SEE ELECTRICAL SHEETS.
 - INSTALL OPERABLE WALL PARTITION.
 - PATCH CONCRETE SLAB - SEE STRUCTURAL SHEETS.
 - EXISTING COLUMN TO REMAIN.
 - INSTALL NEW CARD ACCESS ON NEW POST. SET POST IN CONCRETE.
 - EXISTING CONCRETE STOOP AND FOOTINGS TO REMAIN.
 - EXISTING BULLETIN / WHITE BOARD TO REMAIN.
 - INSTALL NEW DOWNSPOUTS & SALVAGED HEAT TAPE AFTER METAL PANEL IS INSTALLED. SEE ELECTRICAL SHEETS FOR HEAT TAPE COORDINATION.
 - INSTALL NEW 6" THICK WITH REINFORCING CONCRETE EQUIPMENT PAD - SEE MECHANICAL SHEETS.
 - INSTALL NEW TACKSTRIP AT 9'-2". SEE NOTE ON PLAN FOR APPROX. LINEAR DIMENSION.
 - INSTALL STAINLESS STEEL HANRAIL SYSTEM W/ MESH INFILL PANEL - SEE ELEVATION 2A102.
 - SEM RECESSED FIRE EXTINGUISHER CABINET - SEE SPEC.
 - INSTALL NEW BOLLARD - SEE 20A52 FOR DETAIL.
 - PAINT EXISTING HANDRAILS - SEE MASTER COLOR SCHEDULE.
 - INSTALL NEW PLASTIC BOLLARD COVER TO EXISTING BOLLARDS.
 - 4" TUBE STEEL COLUMN STAIR SUPPORT - PAINT.
 - INSTALL NEW PRECAST PLANK W/ CONCRETE TOPPING - SEE STRUCTURAL SHEETS.
 - MODIFY AND INSTALL SALVAGED GUARDRAIL & TOEKICK. SEE PLAN FOR APPROX. DIMENSIONS - V.I.F.
 - INSTALL NEW WOOD FRAMING SYSTEM - SEE STRUCTURAL SHEETS.
 - THROUGH WALL MECH. LOUVER @ WALL INFILL - COORDINATE W/ MECHANICAL.
 - INSTALL NEW METAL WALL PANEL COLUMN ENCLOSURE - SEE DETAILS A502.
 - APPLY REACTIVE HARDENER/SEALER TO NEW CONCRETE SLAB.
 - PAINT TOP & FRONT FACE OF EXISTING 4" CONCRETE BASE.
 - WHITE BOARD INTEGRATED IN WALL PANELS - 3'-0" A.F.F. AND 4'-0" HIGH - BY PANEL SUPPLIER.
 - PATCH CONCRETE SLAB TO MATCH ADJACENT SLAB CONSTRUCTION & MATERIAL - SEE PLUMBING SHEETS.
 - INSTALL NEW PRECAST PLANK TOPPING W/ RADIANT IN-FLOOR HEAT - SEE MECHANICAL & STRUCTURAL SHEETS.
 - INSTALL NEW CONCRETE PAVEMENT - SEE CIVIL SHEETS.
 - PATCH EXISTING WALLS AND PREP FOR NEW FINISH WHERE
 - PATCH WALL WHERE FIRE ALARM PANEL IS REPLACED WITH ATTIC STOCK TILE FROM OWNER.
 - PATCH WALL WHERE ELECTRIC HANDRYER IS REMOVED TO MATCH ADJ. SURFACE AND PREP FOR NEW FINISH.



1 FIRST FLOOR PLAN - AREA A
1/8" = 1'-0"





Consultant:

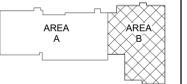
Project Title: WESTERN TECHNICAL COLLEGE
SPARTA PUBLIC SAFETY EXPANSION
Project Location: 11177 COUNTY ROAD A
SPARTA, WI 54656
Sheet Title: FIRST FLOOR PLAN - AREA B

HSR Project Number: 20028

Project Date: FEBRUARY 2021

Drawn By: MM/RW/MPL

Key Plan:



KEY PLAN

No.	Description	Date
A01	ADDENDUM 1	2-15-21
A02	ADDENDUM 2	2-24-21
A03	ADDENDUM 3	2-26-21

Graphic Scale: VARIES

Last Update: 2/25/2021 3:36:22 PM

A101

PLAN GENERAL NOTES:

- A. REFER TO OVERALL PLANS FOR FIRE RATING LOCATIONS AND ACCESSIBILITY ROUTES.
- B. SEE ID SHEETS FOR FLOOR AND WALL FINISH LAYOUTS.
- C. LOOSE FURNISHINGS EXCEPT AS NOTED SHALL BE PROVIDED AND INSTALLED BY THE OWNER.
- D. FIXED EQUIPMENT IS SHOWN ON THIS PLAN FOR COORDINATION. SEE SHEETS A100 FOR ALL EQUIPMENT NOTES.
- E. UNLESS NOTED OTHERWISE RESTROOM FLOORS SHALL BE SLOPED A MIN. 1/16" - 1/2" TO FLOOR DRAINS - TO "CENTER", IF NO FLOOR DRAINS. PAINT ALL EXPOSED STEEL LINTELS.
- F. EXTEND ALL WALLS TO DECK UNLESS NOTED OTHERWISE. SEE A501 FOR TOP OF WALL DETAILS.
- G. INSTALL BULLNOSE CMU AT ALL OUTSIDE CORNERS W/O TILE AND AT DOOR JAMBS AS DETAILED. NO BULLNOSE AT WINDOW JAMBS.
- H. SEE A501 FOR WALL CONTROL JOINT DETAILS. SEE PLANS AND ELEVATIONS FOR CJ LOCATIONS. CJ = CONTROL JOINTS.
- I. SEE A501 FOR TYPICAL HEAD FLASHING AND THROUGH-WALL FLASHING ISOMETRIC DETAILS.
- J. SEE STRUCTURAL FOR SLAB CONTROL JOINTS.
- K. GENERAL CONTRACTOR TO PROVIDE CONCRETE EQUIPMENT PADS/CURBS AS REQUIRED FOR MECHANICAL / ELECTRICAL EQUIPMENT. VERIFY SIZE, PROFILE & LOCATION WITH MECHANICAL / ELECTRICAL.
- L. VERIFY EXACT SIZE AND LOCATION OF ALL MECHANICAL / PLUMB AND ELEC. OPENINGS - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH AT ALL VISIBLE AREAS. ALL OPENING SHALL BE SEALED AFTER UTILITY INSTALLATION.

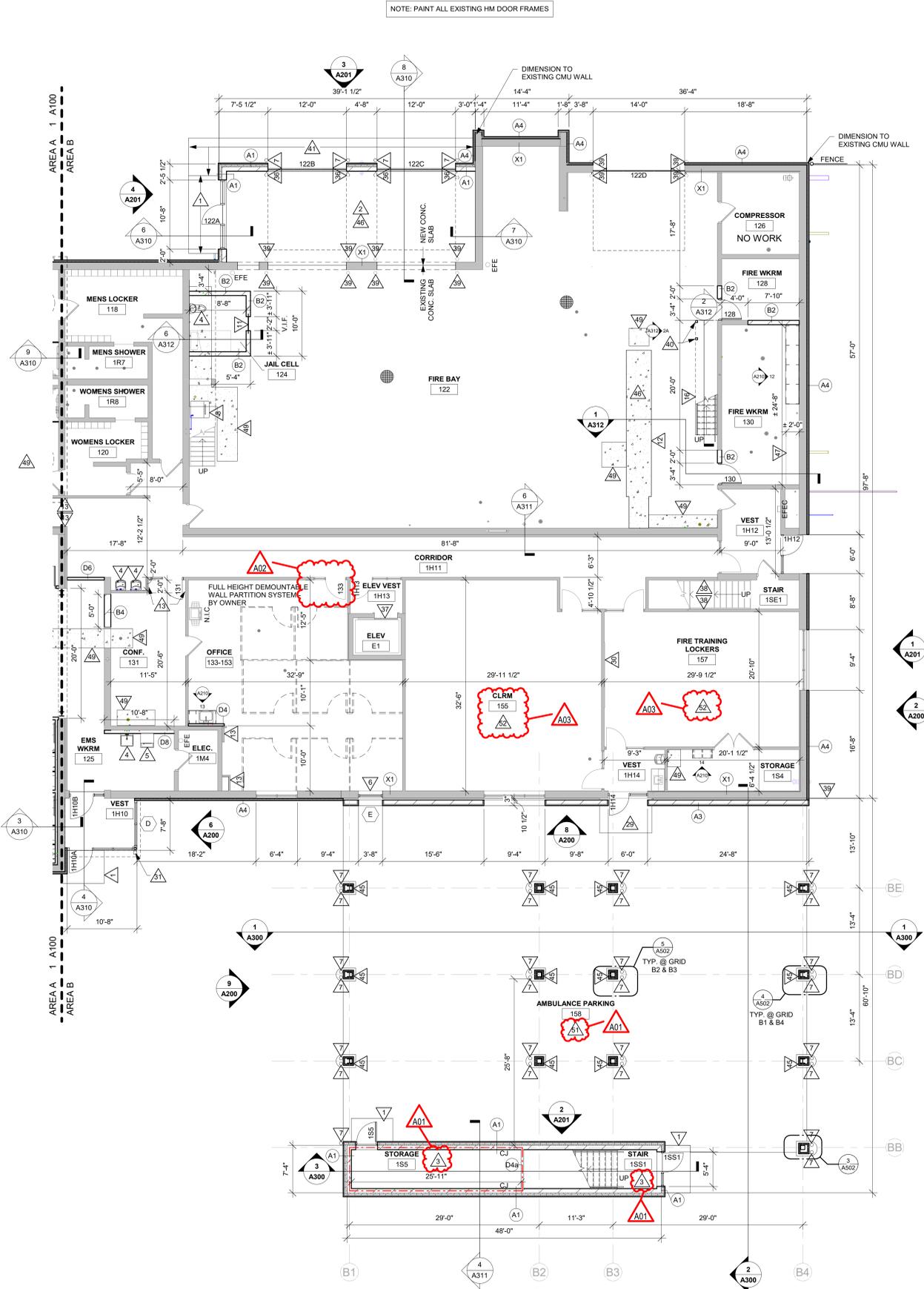
LEGEND:

- (A) SYMBOL INDICATES WALL TYPE - SEE SHEET A600 FOR WALL TYPE DETAILS.
- (A) SYMBOL INDICATES WINDOW TYPE. SEE SHEET A600 FOR WINDOW FRAME ELEVATIONS.
- (A) SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET
- (A) 1 HOUR WALL
- (A) WALL SECTION
- (A) BUILDING SECTION
- (A) CONCRETE IN-FILL - SEE PLUMBING / STRUCTURAL SHEETS
- (A) WOOD FRAMING IN-FILL - SEE STRUCTURAL SHEETS
- (A) PRECAST CONCRETE IN-FILL - SEE STRUCTURAL SHEETS
- EFE EXISTING FIRE EXTINGUISHER
- EFE EXISTING FIRE EXTINGUISHER CABINET

KEY NOTES PLAN

1. INSTALL NEW CONCRETE FROST STOOP - SEE STRUCTURAL SHEETS.
2. INSTALL NEW CONCRETE SLAB-ON-GRADE W/ RADIANT IN-FLOOR HEAT INSULATION - SEE MECHANICAL / STRUCTURAL SHEETS.
3. INSTALL NEW CONCRETE SLAB-ON-GRADE - SEE STRUCTURAL SHEETS.
4. STACKABLE WASHER / DRYER (N.I.C.) - INSTALLATION BY G.C. - SEE ELECTRICAL & PLUMBING SHEETS.
5. INSTALL NEW SOLID SURFACE WINDOW STOOL - SEE ID SHEETS.
6. INSTALL NEW BOLLARD & CONC. CURB - SEE CIVIL SHEETS.
7. ICE MACHINE (N.I.C.) - HOOK-UPS BY G.C. - SEE ELECTRICAL & PLUMBING SHEETS.
8. INSTALL NEW HIGH DENSITY MOBILE STORAGE UNIT.
9. EXISTING TEACHING STATION (N.I.C.)
10. INSTALL SALVAGED JAIL CELL DOOR.
11. INSTALL NEW SLAB-ON-GRADE OVER PIT INFILL - SEE STRUCTURAL SHEETS.
12. PATCH, PREP & PAINT WALL AT REMOVED WALL / CASEWORK.
13. INSTALL HALF-WALL W/ PARTIAL HEIGHT WALL FRAMING SUPPORT - TOP @ 48" NOMINAL - CAP WALL W/ SOLID SURFACE TOP.
14. MOBILE TEACHING STATION (N.I.C.) - BY OWNER (N.I.C.)
15. INSTALL NEW METAL STAIR AND RAILING UP TO EXISTING MEZZANINE.
16. PATCH CONCRETE SLAB. DOWEL NEW SLAB TO EXISTING SLAB W/ #4 X 1'-0" DOWELS @ 18" O.C. DRILL & EPOXY IN EXISTING SLAB W/ 4" EMBEDMENT.
17. AMBULANCE SIMULATOR (N.I.C.) - SEE ELECTRICAL SHEETS FOR HOOKUPS. COORDINATE W/ OWNER FOR INSTALLATION.
18. INSTALL WALL MOUNTED HEAD UNIT - OWNER PROVIDED. COORDINATE W/ OWNER FOR FINAL INSTALL LOCATION. SEE ELECTRICAL SHEETS.
19. TEACHING STATION (N.I.C.) - SEE MECHANICAL SHEETS.
20. INSTALL CUBICLE CURTAIN ATTACHED TO TRACK ON DROPPED CEILING TRAIL.
21. NON-OPERABLE DEMONSTRATION FIXTURE - SEE PLUMBING SHEETS.
22. INSTALL CAST STONE BENCH TOP/SEAT. SEE SHEET A501 FOR SLOPE DIRECTION.
23. WELDING MACHINE (N.I.C.) - SEE ELECTRICAL SHEETS.
24. INSTALL OPERABLE WALL PARTITION.
25. PATCH CONCRETE SLAB - SEE STRUCTURAL SHEETS.
26. EXISTING COLUMN TO REMAIN.
27. INSTALL NEW CARD ACCESS ON NEW POST. SET POST IN CONCRETE.
28. EXISTING CONCRETE STOOP AND FOOTINGS TO REMAIN.
29. EXISTING BULLETIN WHITE BOARD TO REMAIN.
30. INSTALL NEW DOWNSPOUTS & SALVAGED HEAT TAPE AFTER METAL PANEL IS INSTALLED. SEE ELECTRICAL SHEETS FOR HEAT TAPE COORDINATION.
31. INSTALL NEW 6" THICK WITH REINFORCING CONCRETE EQUIPMENT PAD - SEE MECHANICAL SHEETS.
32. INSTALL NEW TACKSTRIP AT 9'-2". SEE NOTE ON PLAN FOR APPROX. LINEAR DIMENSION.
33. INSTALL STAINLESS STEEL HANRAIL SYSTEM W/ MESH INFILL PANEL - SEE ELEVATION 2A102.
34. SEMI RECESSED FIRE EXTINGUISHER CABINET - SEE SPEC.
35. INSTALL NEW BOLLARD - SEE 20A502 FOR DETAIL.
36. PAINT EXISTING ELEVATOR DOORS - SEE MASTER COLOR SCHEDULE.
37. PAINT EXISTING HANDRAILS - SEE MASTER COLOR SCHEDULE.
38. INSTALL NEW PLASTIC BOLLARD COVER TO EXISTING BOLLARDS.
39. 4" TUBE STEEL COLUMN STAIR SUPPORT - PAINT.
40. INSTALL NEW PRECAST PLANK W/ CONCRETE TOPPING - SEE STRUCTURAL SHEETS.
41. MODIFY AND INSTALL SALVAGED GUARDRAIL & TOEKICK. SEE PLAN FOR APPROX. DIMENSIONS - V.I.F.
42. INSTALL NEW WOOD FRAMING SYSTEM - SEE STRUCTURAL SHEETS.
43. THROUGH WALL MECH. LOUVER @ WALL INFILL - COORDINATE W/ MECHANICAL.
44. INSTALL NEW METAL WALL PANEL COLUMN ENCLOSURE - SEE DETAILS A502.
45. APPLY REACTIVE HARDENER/SEALER TO NEW CONCRETE SLAB.
46. PAINT TOP & FRONT FACE OF EXISTING 4" H CONCRETE BASE.
47. WHITE BOARD INTEGRATED IN WALL PANELS - 3'-0" A.F.F. AND 4'-0" HIGH - BY PANEL SUPPLIER.
48. PATCH CONCRETE SLAB TO MATCH ADJACENT SLAB CONSTRUCTION & MATERIAL - SEE PLUMBING SHEETS.
49. INSTALL NEW PRECAST PLANK/TOPPING W/ RADIANT IN-FLOOR HEAT - SEE MECHANICAL & STRUCTURAL SHEETS.
50. PATCH EXISTING WALLS AND PREP FOR NEW FINISH WHERE ELECTRICAL ITEMS ARE REMOVED - COORDINATE W/ ELEC.

NOTE: PAINT ALL EXISTING HM DOOR FRAMES



1 FIRST FLOOR PLAN - AREA B
1/8" = 1'-0"

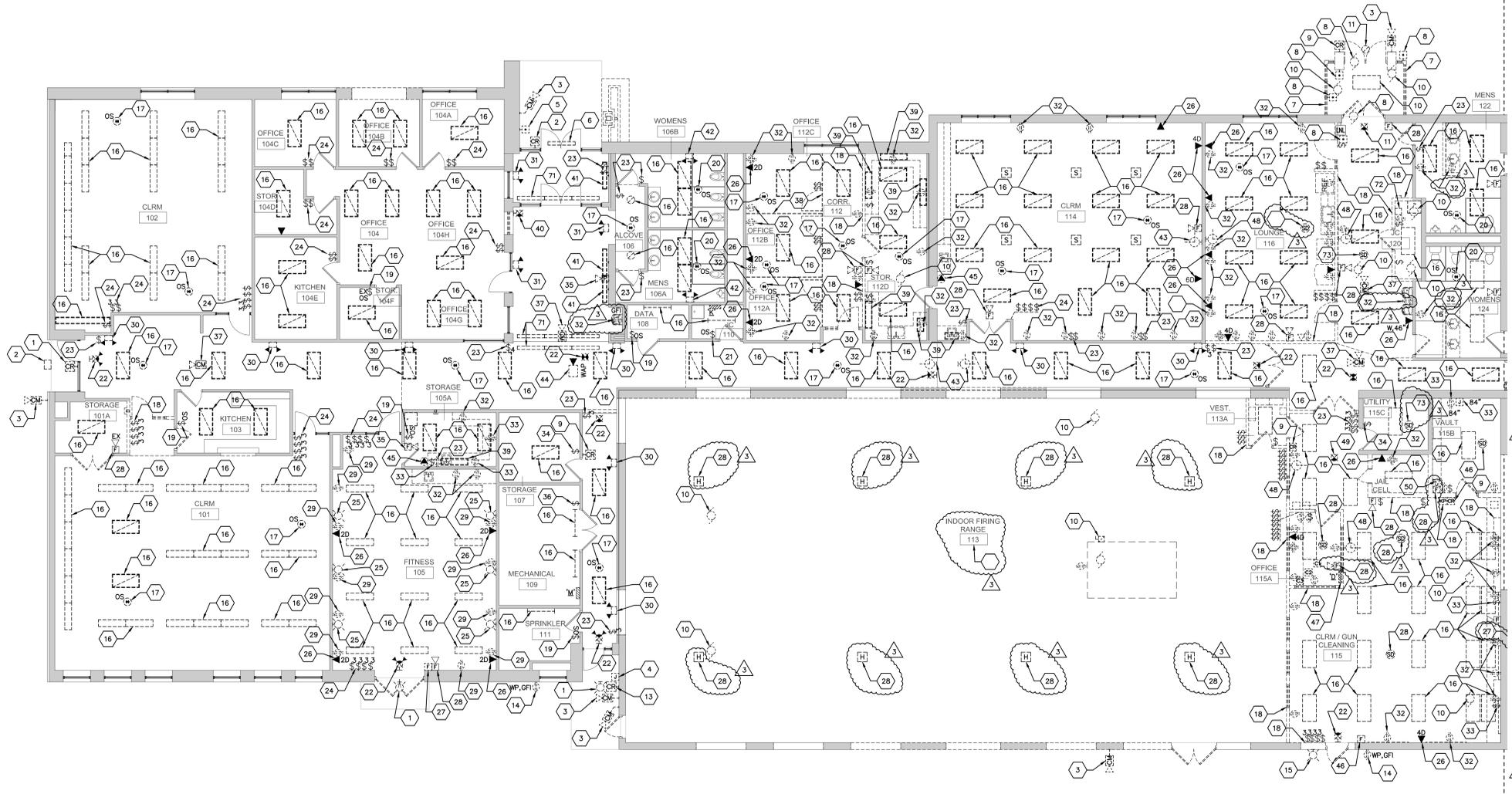




Consultant:



WESTERN TECHNICAL COLLEGE
SPARTA PUBLIC SAFETY EXPANSION
11177 COUNTY ROAD A
SPARTA, WI 54656
FIRST FLOOR REMOVAL PLAN - AREA A



1 FIRST FLOOR REMOVAL PLAN - AREA A
E002 SCALE: 1/8" = 1'-0" 20-07-E-ED01

- KEYED ELECTRICAL DEMOLITION PLAN NOTES**
- EXISTING EXTERIOR LIGHTING FIXTURE SHALL BE DISCONNECTED, REMOVED AND SALVAGED FOR REINSTALLATION IN THE SAME LOCATION. EXTERIOR WALL SHALL BE FURRED-OUT APPROXIMATELY 4", PROVIDE A BOX EXTENSION AS REQUIRED AND REINSTALL EXISTING LIGHTING FIXTURE IN SAME LOCATION. RE-USE EXISTING BRANCH-CIRCUIT WIRING TO THE EXTENT POSSIBLE. REFER TO PHOTOS #17/6401, #18/6401, #19/6401, #20/6401, #21/6401, #22/6401, #23/6401, #24/6401, #25/6401.
 - EXISTING MULLION MOUNTED AND/OR WALL-MOUNTED ELECTRONIC ACCESS DOOR CARD READER TO REMAIN AS IS.
 - EXISTING SECURITY CAMERA SHALL BE DISCONNECTED, REMOVED AND SALVAGED FOR REINSTALLATION IN THE SAME LOCATION. EXTERIOR WALL SHALL BE FURRED-OUT APPROXIMATELY 4", PROVIDE A BOX EXTENSION AS REQUIRED AND REINSTALL EXISTING CAMERA IN SAME LOCATION. REFER TO PHOTO #22/6401, #23/6401, #24/6401, #25/6401.
 - DISCONNECT EXISTING HEAT TAP CONTROL BOX AND REINSTALL AS REQUIRED FOR EXTERIOR CLADDING. COORDINATE WITH GENERAL CONTRACTOR. REFER TO PHOTO #12/6401.
 - EXISTING PADDLE SWITCH FOR MOTORIZED DOOR OPENER SHALL BE DISCONNECTED, REMOVED AND SALVAGED FOR REINSTALLATION IN THE SAME LOCATION. EXTERIOR WALL SHALL BE FURRED-OUT APPROXIMATELY 4", PROVIDE A BOX EXTENSION AS REQUIRED AND REINSTALL PADDLE SWITCH IN SAME LOCATION. REFER TO PHOTO #23/6401.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING LIGHTING FIXTURE. REUSE EXISTING SWITCH-LEG WIRING TO ENERGIZE NEW LED LIGHTING FIXTURE TO BE INSTALLED IN SAME LOCATION AS NOTED ON LIGHTING PLAN E01. REFER TO PHOTO #16/6401.
 - EXISTING EXTERIOR VESTIBULE TO BE DEMOLISHED. REFER TO PHOTO #27/6401.
 - DISCONNECT, REMOVE AND SALVAGE EXISTING PADDLE TYPE SWITCH FOR MOTORIZED ASSISTED DOOR OPENER TO OWNER. REMOVE ASSOCIATED LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
 - DISCONNECT, REMOVE AND SALVAGE EXISTING ELECTRONIC ACCESS DOOR CARD READER TO OWNER. REMOVE ASSOCIATED LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
 - DISCONNECT EXISTING MOTOR/EQUIPMENT FOR REMOVAL BY OTHERS. REMOVE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING LIGHTING FIXTURE. REMOVE ASSOCIATED LINE VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
 - DISCONNECT, REMOVE AND SALVAGE EXISTING SECURITY CAMERA TO OWNER. REMOVE ASSOCIATED LOW VOLTAGE WIRING BACK TO SOURCE. COORDINATE WITH WTC IT DEPARTMENT.
 - EXISTING EXTERIOR ELECTRONIC DOOR ACCESS CONTROL, CARD READER SHALL BE DISCONNECTED, REMOVED AND SALVAGED FOR REINSTALLATION IN THE SAME LOCATION. EXTERIOR WALL SHALL BE FURRED-OUT APPROXIMATELY 4", PROVIDE A BOX EXTENSION AS REQUIRED AND REINSTALL IN SAME LOCATION. COORDINATE WITH WTC ACCESS DOOR VENDOR. REFER TO PHOTO #21/6401.
 - EXISTING EXTERIOR DUPLEX RECEPTACLE SHALL BE DISCONNECTED, REMOVED AND SALVAGED FOR REINSTALLATION IN THE SAME LOCATION. EXTERIOR WALL SHALL BE FURRED-OUT APPROXIMATELY 4", PROVIDE A BOX EXTENSION AS REQUIRED AND REINSTALL IN SAME LOCATION.
 - EXISTING EXTERIOR LIGHTING FIXTURE SHALL BE DISCONNECTED, REMOVED AND SALVAGED FOR REINSTALLATION IN THE APPROXIMATE LOCATION, REINSTALL ABOVE CENTER OF NEW DOUBLE DOOR. RE-USE AND EXTEND EXISTING BRANCH-CIRCUIT WIRING TO THE EXTENT POSSIBLE. REFER TO PHOTO #18/6401.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING FLUORESCENT LIGHTING FIXTURE. REUSE EXISTING BRANCH-CIRCUIT AND SWITCH-LEG WIRING TO THE EXTENT POSSIBLE FOR INSTALLATION OF NEW LED LIGHTING FIXTURE IN THIS ROOM.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING CEILING MOUNTED OCCUPANCY SENSOR. REMOVE AND UNUSED LOW VOLTAGE AND/OR LINE VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
 - THIS WALL TO BE DEMOLISHED, DISCONNECT AND REMOVE ALL WIRING DEVICES AND ASSOCIATED CONDUIT, JUNCTION BOXES, ETC. REMOVE WIRING BACK TO SOURCE. TYPICAL.
 - REUSE EXISTING WALL-MOUNTED OCCUPANCY SENSOR TO ENERGIZE NEW LED LIGHTING FIXTURES IN THIS ROOM.
 - EXISTING CEILING-MOUNTED OCCUPANCY SENSOR TO REMAIN AS IS. REUSE TO ENERGIZE NEW LED LIGHTING FIXTURES IN THIS ROOM.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING WALL-MOUNTED OCCUPANCY SENSOR AND REPLACE WITH 20 AMP, 120VAC SINGLE-POLE LIGHT SWITCH. PLEASE NOTE NEC DOES NOT ALLOW OCCUPANCY SENSORS IN ROOMS WITH PANELBOARDS.
 - DISCONNECT, REMOVE AND SALVAGE EXISTING LIGHTING FIXTURE FOR REMOVAL OF EXISTING ACOUSTIC SUSPENDED CEILING. REINSTALL AFTER NEW SUSPENDED CEILING INSTALLED. REUSE EXISTING CONDUIT, JUNCTION BOXES, FUTURE WHIPS, BRANCH-CIRCUIT AND SWITCH-LEG WIRING, ETC. TO THE EXTENT POSSIBLE FOR REINSTALLATION.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING SINGLE-POLE, 3-WAY OR 4-WAY LIGHT SWITCH. PROVIDE A BLANK STAINLESS STEEL COVER PLATE.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING SINGLE-POLE, 3-WAY OR 4-WAY LIGHT SWITCH. REUSE EXISTING JUNCTION BOX FOR REMODEL WORK.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING STEP-LIGHT TYPE LIGHTING FIXTURE. COORDINATE WITH GENERAL CONTRACTOR FOR PATCHING OF WALL OPENING. REMOVE CONDUIT, JUNCTION BOXES, WIRING, ETC. BACK TO SOURCE. REFER TO PHOTO #23/6401.
 - EXISTING WALL-MOUNTED FIRE ALARM NOTIFICATION DEVICE TO REMAIN AS IS.
 - EXISTING SINGLE-POLE LIGHT SWITCH TO REMAIN AS IS.
 - DISCONNECT, REMOVE AND SALVAGE EXISTING SECURITY CAMERA FOR REMOVAL OF EXISTING ACOUSTIC SUSPENDED CEILING. REINSTALL AFTER NEW SUSPENDED CEILING INSTALLED. REUSE EXISTING CONDUIT, JUNCTION BOXES, LOW VOLTAGE WIRING, ETC. TO THE EXTENT POSSIBLE FOR REINSTALLATION.
 - EXISTING MODULAR OFFICE PARTITIONS TO BE DEMOLISHED, REMOVE ALL WIRING DEVICES AND ASSOCIATED CONDUIT, JUNCTION BOXES, ETC. BACK TO SOURCE. TYPICAL.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING UNDERCABINET FLUORESCENT LIGHTING FIXTURES AND ASSOCIATED CONDUIT, JUNCTION BOXES AND WIRING.
 - EXISTING WALL-MOUNTED EXIT LIGHTING FIXTURE TO REMAIN AS IS.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING 4'-0" AND 6'-0" FLUORESCENT WALL SCONCE LIGHTING FIXTURE. REPLACE WITH NEW LED LIGHTING FIXTURE AS NOTED ON LIGHTING PLANS. REUSE EXISTING BRANCH-CIRCUIT, SWITCH-LEG WIRING, JUNCTION BOXES, ETC. TO THE EXTENT POSSIBLE. REFER TO PHOTO #24/6401.
 - EXISTING EMERGENCY LIGHTING UNIT (ELU) TO REMAIN AS IS.
 - DISCONNECT, REMOVE AND SALVAGE EXISTING WIRELESS CLOCK FOR PAINTING OF EXISTING WALL. REINSTALL AFTER WALL IS PAINTED. REUSE EXISTING CONDUIT, JUNCTION BOXES, WIRING, ETC. FOR REINSTALLATION.
 - DISCONNECT, REMOVE AND SALVAGE EXISTING WIRELESS ACCESS POINT FOR REMOVAL OF EXISTING ACOUSTIC SUSPENDED CEILING. REINSTALL AFTER NEW SUSPENDED CEILING INSTALLED. REUSE EXISTING CONDUIT, JUNCTION BOXES, LOW VOLTAGE WIRING, ETC. TO THE EXTENT POSSIBLE FOR REINSTALLATION.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING HAND OPERATOR FOR REMOVAL BY OTHERS. RECONNECT AS NOTED ON POWER PLANS. REMOVE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
 - RELOCATE EXISTING FIRE ALARM NOTIFICATION DEVICE, SMOKE DETECTOR OR MANUAL PULL STATION AS INDICATED ON THE FIRE ALARM DRAWINGS.
 - DISCONNECT, REMOVE AND SALVAGE EXISTING SQUARE 'D' PANELBOARD TO WTC FACILITY PLANT. REUSE EXISTING CIRCUIT BREAKERS IN NEW PANELBOARD 'D' TO REPLACE THIS EXISTING PANELBOARD. REFER TO POWER SHEETS. DISCONNECT AND REMOVE ALL BRANCH-CIRCUIT WIRING BETWEEN PANELBOARD AND LOADS DISCONNECTED AND REMOVED, DO NOT ABANDON IN PLACE. EXTEND EXISTING FEEDER TO NEW PANELBOARD 'D' AS NOTED ON POWER PLANS. PANELBOARD 'D' PRIMARILY FED BRANCH-CIRCUITS IN INDOOR RANGERS #113 AND CLASSROOM/GUN CLEANING ROOM #115.
 - SALVAGE EXISTING CLOCK TO WTC FACILITY PLANT DEPARTMENT, OR REINSTALL IN NEW LOCATION AS INDICATED ON NEW LIGHTING DRAWINGS.
 - DISCONNECT, REMOVE AND REINSTALL EXISTING EXIT LIGHTING FIXTURE AS NOTED ON LIGHTING PLANS.
 - EXISTING SECURITY SYSTEM MOTION DETECTOR/KEYPAD SHALL REMAIN AS IS, COORDINATE WITH WTC PLANT FACILITY DEPARTMENT.
 - EXISTING TELEPHONE SERVICE IDENTICAL AND LEFT INTACT TO REMAIN AS IS, ASSIST GENERAL CONTRACTOR AS REQUIRED FOR EXTERIOR WALL CLADDING. REFER TO PHOTO #19/6401.
 - THIS WALL HAS EXCESSIVE AMOUNT OF DUPLEX RECEPTACLES, LOW VOLTAGE JUNCTION BOXES, UNUSED JACKS, ETC. ELECTRICAL CONTRACTOR SHALL COORDINATE THOROUGHLY WITH WTC FACILITY PLANT DEPARTMENT AND WTC DEPARTMENT FOR REMOVAL OF UNWANTED WIRING DEVICES, BOXES, JACKS, ETC. REMOVE UNWANTED JUNCTION BOXES, CONDUIT AND WIRING BACK TO SOURCE. REFER TO PHOTOS #27/6401, #28/6401 AND #29/6401 FOR EXAMPLE. GENERAL CONTRACTOR SHALL PATCH WALLS.
 - EXISTING SPRINKLER SYSTEM STROBE LIGHT SHALL BE DISCONNECTED, REMOVED AND SALVAGED FOR REINSTALLATION IN SAME LOCATION. EXTERIOR WALL SHALL BE FURRED-OUT APPROXIMATELY 4", PROVIDE A BOX EXTENSION AS REQUIRED AND REINSTALL EXISTING IN SAME LOCATION. REFER TO PHOTO #30/6401.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING 4-LAMP FLUORESCENT HIGH-BAY LIGHTING FIXTURE. DISCONNECT AND REMOVE EXISTING CORD AND PLUG AND REINSTALL ON NEW LED REPLACEMENT LIGHTING FIXTURE. REUSE EXISTING BRANCH-CIRCUIT AND SWITCH-LEG WIRING TO THE EXTENT POSSIBLE FOR INSTALLATION OF NEW LED LIGHTING FIXTURE IN THIS ROOM. CAUTION: LIGHTING FIXTURES INSTALLED APPROXIMATELY 22'-0" A.F.F. REFER TO PHOTO #15/6401.
 - EXISTING EXTERIOR LIGHTING FIXTURE SHALL BE DISCONNECTED, REMOVED AND DISPOSED. A NEW LED LIGHTING FIXTURE SHALL BE INSTALLED IN THE SAME LOCATION. EXTERIOR WALL SHALL BE FURRED-OUT APPROXIMATELY 4", PROVIDE A BOX EXTENSION AS REQUIRED. RE-USE EXISTING BRANCH-CIRCUIT AND SWITCH-LEG WIRING TO THE EXTENT POSSIBLE. REFER TO PHOTOS #30/6401. CAUTION: FIXTURE INSTALLED APPROXIMATELY 22'-0" A.F.F.
 - EXISTING LB FITTINGS AND FIBER OPTIC CABLE PENSTAL TO REMAIN AS IS, ASSIST GENERAL CONTRACTOR AS REQUIRED FOR EXTERIOR WALL CLADDING. REFER TO PHOTO #8/6401.
 - EXISTING 3-WAY LIGHT SWITCH FOR EGRESS LIGHTS AND SINGLE-POLE SWITCH CONTROLLING HIGH BAY LIGHTING FIXTURES TO REMAIN AS IS.
 - EXISTING DUPLEX RECEPTACLE TO REMAIN AS IS, HOWEVER A DEDICATED 20 AMP, 120VAC BRANCH CIRCUIT IS REQUIRED FOR NEW ICE MACHINE TO BE INSTALLED IN THIS LOCATION. REFER TO POWER SHEETS.
 - EXISTING LB FITTINGS AND ELECTRIC FENCE OPERATOR PANEL TO REMAIN AS IS, ASSIST GENERAL CONTRACTOR AS REQUIRED FOR EXTERIOR WALL CLADDING. REFER TO PHOTO #26/6401.
 - DISCONNECT EXISTING OVERHEAD DOOR OPERATOR AND ASSOCIATED UP/DOWN SWITCHES FOR REMOVAL BY OTHERS. REFER TO PHOTO #32/6401 FOR EXAMPLE.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING 2-LAMP FLUORESCENT STRIP LIGHTING FIXTURE LOCATED AT TOP OF FIREMAN'S TRAINING TOWER. INSTALL A NEW LED REPLACEMENT LIGHTING FIXTURE. REUSE EXISTING BRANCH-CIRCUIT AND SWITCH-LEG WIRING TO THE EXTENT POSSIBLE FOR INSTALLATION OF NEW LED LIGHTING FIXTURE. CAUTION: LIGHTING FIXTURES INSTALLED APPROXIMATELY 22'-0" A.F.F.
 - EXISTING SINGLE-POLE LIGHT SWITCH USED TO CONTROL FIREMAN'S TOWER LIGHTING FIXTURES TO REMAIN AS IS.
 - EXISTING SURFACE JUNCTION BOX AND EMT CONDUIT SHALL BE REMOVED AND REWORKED TO ACCOMMODATE REMODEL WORK.
 - EXISTING KAMINTHANE PT SHALL BE ABANDONED AND FILLED-IN AND CAPPED WITH CONCRETE. DISCONNECT, REMOVE AND DISPOSE OF ALL ELECTRICAL CONDUIT, JUNCTION BOXES, WIRING DEVICES, ETC. REFER TO PHOTOS #31/6401 & #32/6401.
 - DISCONNECT EXISTING EMERGENCY MEDICAL, FIREMAN AND POLICE ILLUMINATED EMBLEM SIGNS FOR REMOVAL AND RELOCATION. RECONNECT IN NEW LOCATION AS INDICATED ON LIGHTING PLANS, EXTEND EXISTING BRANCH-CIRCUIT AND SWITCH-LEG WIRING AS REQUIRED. REFER TO PHOTO #9/6401.
 - LOCATION OF EXISTING IT RACK AND ASSOCIATED EQUIPMENT, REMOVE ALL UNUSED LOW VOLTAGE CABLING DUE TO REMODEL WORK BETWEEN EQUIPMENT RACK AND EQUIPMENT AND DATA JACKS. COORDINATE WITH WTC IT DEPARTMENT.
 - LOCATION OF EXISTING LIGHTING CONTACTORS USED FOR INTERIOR AND EXTERIOR LIGHTING FIXTURES.
 - LOCATION OF EXISTING DISCONNECT FEEDING PANELBOARD 'D'.
 - RELOCATE EXISTING EMERGENCY LIGHTING UNIT DUE TO WALL REMOVAL AS REQUIRED. EXTEND EXISTING BRANCH-CIRCUIT WIRING AS REQUIRED.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING FLUORESCENT STRIP LIGHTING FIXTURE INSTALLED HIGH ON COVE LIGHTING SHELF. REUSE EXISTING BRANCH-CIRCUIT AND SWITCH-LEG WIRING TO THE EXTENT POSSIBLE FOR INSTALLATION OF NEW LED LIGHTING STRIP FIXTURE REPLACEMENT IN THIS ROOM. REFER TO PHOTO #13/6401.
 - DISCONNECT, REMOVE AND REINSTALL EXISTING TANK ALERT ALARM BOX IN UTILITY ROOM #113. EXTEND EXISTING LOW VOLTAGE WIRING TO UTILITY ROOM #113 AS NOTED ON POWER PLANS.
 - DISCONNECT, REMOVE AND SALVAGE EXISTING FIRE ALARM SMOKE DETECTOR FOR REMOVAL OF EXISTING ACOUSTIC SUSPENDED CEILING. REINSTALL AFTER NEW SUSPENDED CEILING INSTALLED. REUSE EXISTING CONDUIT, JUNCTION BOXES, LOW VOLTAGE WIRING, ETC. TO THE EXTENT POSSIBLE FOR REINSTALLATION.
 - EXISTING CLOCK TO REMAIN AS IS.
 - LOCATION OF EXISTING FIRE ALARM CONTROL PANEL, UPGRADE AS NOTED ON FIRE ALARM DRAWINGS.

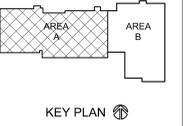
Project Title: WESTERN TECHNICAL COLLEGE SPARTA PUBLIC SAFETY EXPANSION
Project Location: 11177 COUNTY ROAD A SPARTA, WI 54656
Sheet Title: FIRST FLOOR REMOVAL PLAN - AREA A

HSR Project Number: HSR # 20028

Project Date: FEBRUARY 2021

Drawn By: HSR

Key Plan:



KEY PLAN

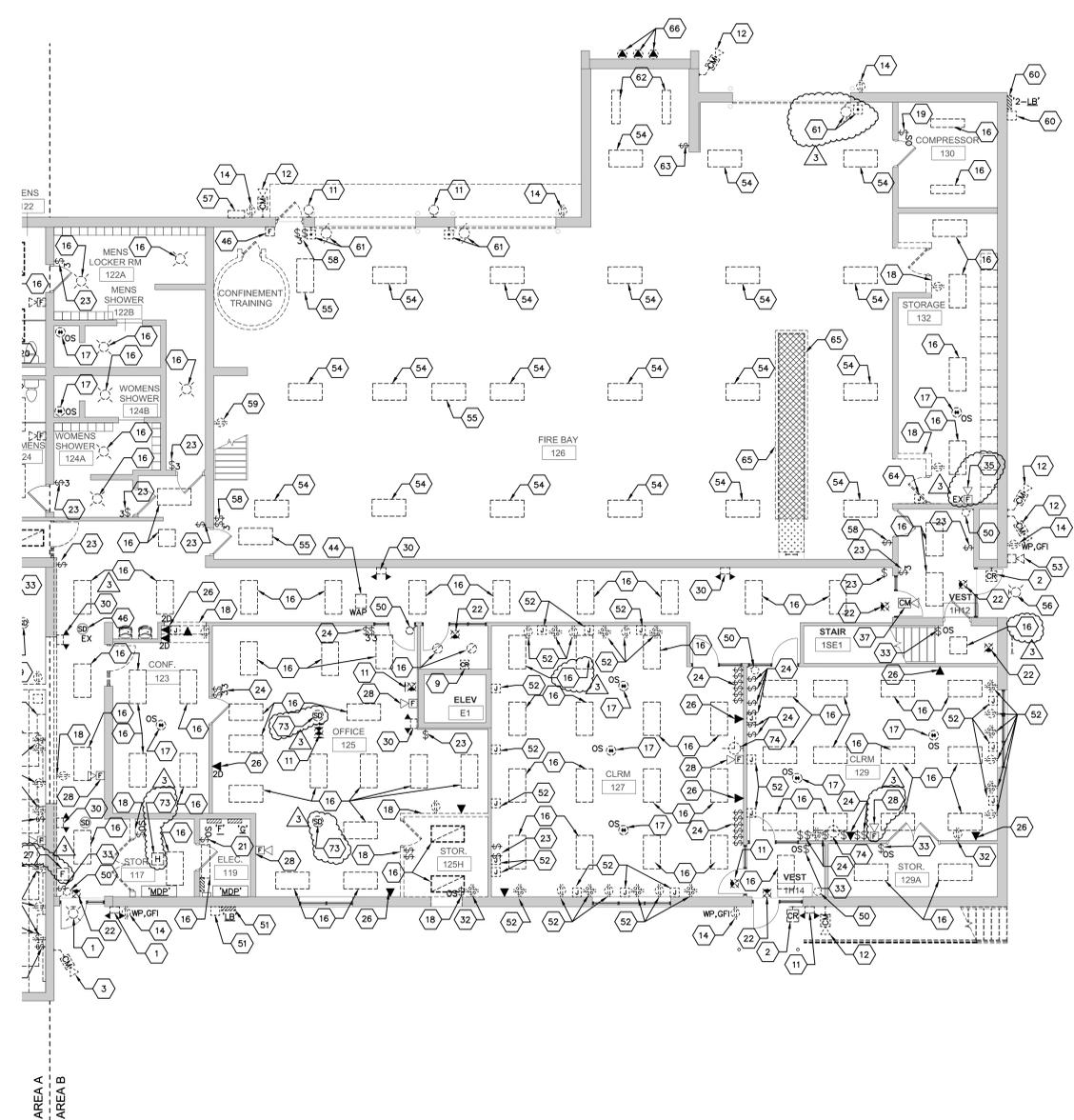
No.	Description	Date
1	ADDENDUM # 3	2-26-21

Graphic Scale: VARIES
Last Update: 02/25/21

E002



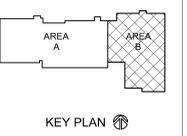
Consultant:



1 FIRST FLOOR REMOVAL PLAN - AREA B
E003 SCALE: 1/8" = 1'-0" 20-07-E-ED01

- KEYED ELECTRICAL DEMOLITION PLAN NOTES:**
- EXISTING EXTERIOR LIGHTING FIXTURE SHALL BE DISCONNECTED, REMOVED AND SALVAGED FOR REINSTALLATION IN THE SAME LOCATION. EXTERIOR WALL SHALL BE FURRED-OUT APPROXIMATELY 4". PROVIDE A BOX EXTENSION AS REQUIRED AND REINSTALL EXISTING LIGHTING FIXTURE IN SAME LOCATION. RE-USE EXISTING BRANCH-CIRCUIT WIRING TO THE EXTENT POSSIBLE. REFER TO PHOTOS #17/E401, #18/E401, #19/E401, #20/E401, #21/E401, #22/E401, #23/E401, #24/E401, #25/E401, #26/E401, #27/E401, #28/E401, #29/E401, #30/E401, #31/E401, #32/E401, #33/E401, #34/E401, #35/E401, #36/E401, #37/E401, #38/E401, #39/E401, #40/E401, #41/E401, #42/E401, #43/E401, #44/E401, #45/E401, #46/E401, #47/E401, #48/E401, #49/E401, #50/E401, #51/E401, #52/E401, #53/E401, #54/E401, #55/E401, #56/E401, #57/E401, #58/E401, #59/E401, #60/E401, #61/E401, #62/E401, #63/E401, #64/E401, #65/E401, #66/E401, #67/E401, #68/E401, #69/E401, #70/E401, #71/E401, #72/E401, #73/E401, #74/E401, #75/E401, #76/E401, #77/E401, #78/E401, #79/E401, #80/E401, #81/E401, #82/E401, #83/E401, #84/E401, #85/E401, #86/E401, #87/E401, #88/E401, #89/E401, #90/E401, #91/E401, #92/E401, #93/E401, #94/E401, #95/E401, #96/E401, #97/E401, #98/E401, #99/E401, #100/E401.
 - EXISTING MULLION MOUNTED AND/OR WALL MOUNTED ELECTRONIC ACCESS DOOR CARD READER TO REMAIN AS IS.
 - EXISTING SECURITY CAMERA SHALL BE DISCONNECTED, REMOVED AND SALVAGED FOR REINSTALLATION IN THE SAME LOCATION. EXTERIOR WALL SHALL BE FURRED OUT APPROXIMATELY 4". PROVIDE A BOX EXTENSION AS REQUIRED AND REINSTALL EXISTING CAMERA IN SAME LOCATION. REFER TO PHOTO #17/E401, #18/E401, #19/E401, #20/E401, #21/E401, #22/E401, #23/E401, #24/E401, #25/E401, #26/E401, #27/E401, #28/E401, #29/E401, #30/E401, #31/E401, #32/E401, #33/E401, #34/E401, #35/E401, #36/E401, #37/E401, #38/E401, #39/E401, #40/E401, #41/E401, #42/E401, #43/E401, #44/E401, #45/E401, #46/E401, #47/E401, #48/E401, #49/E401, #50/E401, #51/E401, #52/E401, #53/E401, #54/E401, #55/E401, #56/E401, #57/E401, #58/E401, #59/E401, #60/E401, #61/E401, #62/E401, #63/E401, #64/E401, #65/E401, #66/E401, #67/E401, #68/E401, #69/E401, #70/E401, #71/E401, #72/E401, #73/E401, #74/E401, #75/E401, #76/E401, #77/E401, #78/E401, #79/E401, #80/E401, #81/E401, #82/E401, #83/E401, #84/E401, #85/E401, #86/E401, #87/E401, #88/E401, #89/E401, #90/E401, #91/E401, #92/E401, #93/E401, #94/E401, #95/E401, #96/E401, #97/E401, #98/E401, #99/E401, #100/E401.
 - DISCONNECT EXISTING HEAT TAPE CONTROL BOX AND REINSTALL AS REQUIRED FOR EXTERIOR CLADDING. COORDINATE WITH GENERAL CONTRACTOR. REFER TO PHOTO #17/E401.
 - EXISTING PADDLE SWITCH FOR MOTORIZED DOOR OPENER SHALL BE DISCONNECTED, REMOVED AND SALVAGED FOR REINSTALLATION IN THE SAME LOCATION. EXTERIOR WALL SHALL BE FURRED OUT APPROXIMATELY 4". PROVIDE A BOX EXTENSION AS REQUIRED AND REINSTALL PADDLE SWITCH IN SAME LOCATION. REFER TO PHOTO #17/E401.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING LIGHTING FIXTURE. REUSE EXISTING SWITCH-LEG WIRING TO ENERGIZE NEW LED LIGHTING FIXTURE TO BE INSTALLED IN SAME LOCATION AS NOTED ON LIGHTING PLAN E01. REFER TO PHOTO #17/E401.
 - EXISTING EXTERIOR VESTIBULE TO BE DEMOLISHED. REFER TO PHOTO #17/E401.
 - DISCONNECT, REMOVE AND SALVAGE EXISTING PADDLE TYPE SWITCH FOR MOTORIZED ASSISTED DOOR OPENER TO OWNER. REMOVE ASSOCIATED LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE. DISCONNECT MOTORIZED DOOR OPENER FOR REMOVAL BY OTHERS.
 - DISCONNECT, REMOVE AND SALVAGE EXISTING ELECTRONIC ACCESS DOOR CARD READER TO OWNER. REMOVE ASSOCIATED LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
 - DISCONNECT EXISTING MOTOR/EQUIPMENT FOR REMOVAL BY OTHERS. REMOVE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING LIGHTING FIXTURE. REMOVE ASSOCIATED LINE VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
 - DISCONNECT, REMOVE AND SALVAGE EXISTING SECURITY CAMERA TO OWNER. REMOVE ASSOCIATED LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE. COORDINATE WITH WTC IT DEPARTMENT.
 - EXISTING EXTERIOR ELECTRONIC DOOR ACCESS CONTROL CARD READER SHALL BE DISCONNECTED, REMOVED AND SALVAGED FOR REINSTALLATION IN THE SAME LOCATION. EXTERIOR WALL SHALL BE FURRED-OUT APPROXIMATELY 4". PROVIDE A BOX EXTENSION AS REQUIRED AND REINSTALL IN SAME LOCATION. COORDINATE WITH WTC ACCESS DOOR VENDOR. REFER TO PHOTO #17/E401.
 - EXISTING EXTERIOR DUPLEX RECEPTACLE SHALL BE DISCONNECTED, REMOVED AND SALVAGED FOR REINSTALLATION IN THE SAME LOCATION. EXTERIOR WALL SHALL BE FURRED-OUT APPROXIMATELY 4". PROVIDE A BOX EXTENSION AS REQUIRED AND REINSTALL IN SAME LOCATION.
 - EXISTING EXTERIOR LIGHTING FIXTURE SHALL BE DISCONNECTED, REMOVED AND SALVAGED FOR REINSTALLATION IN THE APPROXIMATE LOCATION. REINSTALL ABOVE CENTER OF NEW DOUBLE DOOR. RE-USE AND EXTEND EXISTING BRANCH-CIRCUIT WIRING TO THE EXTENT POSSIBLE. REFER TO PHOTO #18/E401.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING FLUORESCENT LIGHTING FIXTURE. REUSE EXISTING BRANCH-CIRCUIT AND SWITCH-LEG WIRING TO THE EXTENT POSSIBLE FOR INSTALLATION OF NEW LED LIGHTING FIXTURE IN THIS ROOM.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING CEILING MOUNTED OCCUPANCY SENSOR. REMOVE AND UNUSE LOW VOLTAGE AND/OR LINE VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
 - THIS WALL TO BE DEMOLISHED, DISCONNECT AND REMOVE ALL WIRING DEVICES AND ASSOCIATED CONDUIT, JUNCTION BOXES, ETC. REMOVE WIRING BACK TO SOURCE. TYPICAL.
 - REUSE EXISTING WALL-MOUNTED OCCUPANCY SENSOR TO ENERGIZE NEW LED LIGHTING FIXTURES IN THIS ROOM.
 - EXISTING CEILING MOUNTED OCCUPANCY SENSOR TO REMAIN AS IS. REUSE TO ENERGIZE NEW LED LIGHTING FIXTURES IN THIS ROOM.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING WALL-MOUNTED OCCUPANCY SENSOR AND REPLACE WITH 20 AMP, 120VAC SINGLE-POLE LIGHT SWITCH. PLEASE NOTE NEC DOES NOT ALLOW OCCUPANCY SENSORS IN ROOMS WITH PANELBOARDS.
 - DISCONNECT, REMOVE AND SALVAGE EXISTING EXIT LIGHTING FIXTURE FOR REMOVAL OF EXISTING ACOUSTIC SUSPENDED CEILING. REINSTALL AFTER NEW SUSPENDED CEILING INSTALLED. REUSE EXISTING CONDUIT, JUNCTION BOXES, FIXTURE WHIPS, BRANCH-CIRCUIT AND SWITCH-LEG WIRING, ETC. TO THE EXTENT POSSIBLE FOR REINSTALLATION.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING SINGLE-POLE 3-WAY OR 4-WAY LIGHT SWITCH. PROVIDE A BLANK STAINLESS STEEL COVER PLATE.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING SINGLE-POLE 3-WAY OR 4-WAY LIGHT SWITCH. REUSE EXISTING JUNCTION BOX FOR REMODEL WORK.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING SINGLE-POLE LIGHT SWITCH. COORDINATE WITH GENERAL CONTRACTOR FOR PATCHING OF WALL OPENING. REMOVE CONDUIT, JUNCTION BOXES, WIRING, ETC. BACK TO SOURCE. REFER TO PHOTO #23/E401.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING DATA JUNK. REMOVE LOW VOLTAGE BACK TO SOURCE, DO NOT ABANDON IN PLACE.
 - EXISTING FIRE ALARM MANUAL PULL STATION/SMOKE DETECTOR/HEAT DETECTOR TO REMAIN AS IS.
 - DISCONNECT, REMOVE AND SALVAGE EXISTING FIRE ALARM MANUAL PULL STATION, SMOKE DETECTOR, NOTIFICATION DEVICE TO WTC FACILITY PLANT DEPARTMENT.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING DUPLEX RECEPTACLE. REUSE EXISTING JUNCTION BOX AND BRANCH-CIRCUIT WIRING TO THE EXTENT POSSIBLE FOR REMODEL WORK.
 - SALVAGE EXISTING WEATHER-PROOF JUNCTION BOX COVER AND REINSTALL AS NOTED ON SHEET #202 FOR AMBULANCE PARKING AREA. REFER TO PHOTO #22/E401.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING EMERGENCY LIGHTING UNIT (ELU). PROVIDE A BLANK STAINLESS STEEL COVER PLATE ON JUNCTION BOX.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING EMERGENCY LIGHTING UNIT (ELU). PROVIDE A NEW ELU TO REPLACE EXISTING AS NOTED ON LIGHTING PLANS.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING DUPLEX RECEPTACLE. REUSE EXISTING JUNCTION BOX AND BRANCH-CIRCUIT WIRING TO THE EXTENT POSSIBLE FOR REMODEL WORK. PROVIDE BLANK COVER PLATES FOR UN-USED JUNCTION BOXES.
 - DISCONNECT AND REMOVE EXISTING WIRING DEVICE FROM EXISTING WALL. PROVIDE A BLANK COVER PLATE.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING SINGLE-POLE LIGHT SWITCH, A NEW WALL-MOUNTED OCCUPANCY SENSOR SHALL BE INSTALLED IN THIS LOCATION. REUSE EXISTING BRANCH-CIRCUIT AND SWITCH-LEG WIRING TO THE EXTENT POSSIBLE.
 - EXISTING WALL-MOUNTED FIRE ALARM NOTIFICATION DEVICE TO REMAIN AS IS.
 - EXISTING SINGLE-POLE LIGHT SWITCH TO REMAIN AS IS.
 - DISCONNECT, REMOVE AND SALVAGE EXISTING SECURITY CAMERA FOR REMOVAL OF EXISTING ACOUSTIC SUSPENDED CEILING. REINSTALL AFTER NEW SUSPENDED CEILING INSTALLED. REUSE EXISTING CONDUIT, JUNCTION BOXES, LOW VOLTAGE WIRING, ETC. TO THE EXTENT POSSIBLE FOR REINSTALLATION.
 - EXISTING MODULAR OFFICE PARTITIONS TO BE DEMOLISHED, REMOVE ALL WIRING DEVICES AND ASSOCIATED CONDUIT, JUNCTION BOXES, ETC. BACK TO SOURCE. TYPICAL.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING UNDERCABINET FLUORESCENT LIGHTING FIXTURES AND ASSOCIATED CONDUIT, JUNCTION BOXES AND WIRING.
 - EXISTING WALL-MOUNTED EXIT LIGHTING FIXTURE TO REMAIN AS IS.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING 4" AND 6" FLUORESCENT WALL SCENE LIGHTING FIXTURE. REPLACE WITH NEW LED LIGHTING FIXTURE AS NOTED ON LIGHTING PLANS. REUSE EXISTING CONDUIT, JUNCTION BOXES, LOW VOLTAGE WIRING, ETC. TO THE EXTENT POSSIBLE FOR REINSTALLATION.
 - EXISTING EMERGENCY LIGHTING UNIT (ELU) TO REMAIN AS IS.
 - DISCONNECT, REMOVE AND SALVAGE EXISTING WIRELESS CLOCK FOR PAINTING OF EXISTING WALL. REINSTALL AFTER WALL IS PAINTED. REUSE EXISTING CONDUIT, JUNCTION BOXES, WIRING, ETC. FOR REINSTALLATION.
 - DISCONNECT, REMOVE AND SALVAGE EXISTING WIRELESS ACCESS POINT FOR REMOVAL OF EXISTING ACOUSTIC SUSPENDED CEILING. REINSTALL AFTER NEW SUSPENDED CEILING INSTALLED. REUSE EXISTING CONDUIT, JUNCTION BOXES, LOW VOLTAGE WIRING, ETC. TO THE EXTENT POSSIBLE FOR REINSTALLATION.
 - DISCONNECT ELECTRIC HAND DRYER FOR REMOVAL BY OTHERS. RECONNECT AS NOTED ON POWER PLANS. REMOVE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
 - RELOCATE EXISTING FIRE ALARM NOTIFICATION DEVICE, SMOKE DETECTOR OR MANUAL PULL STATION AS INDICATED ON FIRE ALARM DRAWINGS.
 - DISCONNECT, REMOVE AND SALVAGE EXISTING SQUARE 'D' PANELBOARD TO WTC FACILITY PLANT. REUSE EXISTING CIRCUIT BREAKERS IN NEW PANELBOARD 'D' TO REPLACE THIS EXISTING PANELBOARD. REFER TO POWER SHEETS. DISCONNECT AND REMOVE ALL BRANCH-CIRCUIT WIRING BETWEEN PANELBOARD AND LOADS. DISCONNECT AND REMOVE, DO NOT ABANDON IN PLACE. EXTEND EXISTING FEEDER TO NEW PANELBOARD 'D' AS NOTED ON POWER PLANS. PANELBOARD 'D' PRIMARILY FED BRANCH-CIRCUITS IN INDOOR RANGE #13 AND CLASSROOM/VGIN CLEANING ROOM #15.
 - DISCONNECT, REMOVE AND SALVAGE EXISTING SQUARE 'D' PANELBOARD TO WTC FACILITY PLANT DEPARTMENT, OR REINSTALL IN NEW LOCATION AS INDICATED ON LOW VOLTAGE DRAWINGS.
 - DISCONNECT, REMOVE AND REINSTALL EXISTING EXIT LIGHTING FIXTURE AS NOTED ON LIGHTING PLANS.
 - EXISTING SECURITY SYSTEM MOTION DETECTOR/PEPAD SHALL REMAIN AS IS. COORDINATE WITH WTC PLANT FACILITY DEPARTMENT.
 - EXISTING EXTERIOR LIGHTING FIXTURE AND FITTING SHALL REMAIN AS IS. COORDINATE WITH WTC PLANT FACILITY DEPARTMENT.
 - THIS WALL HAS EXCESSIVE AMOUNT OF DUPLEX RECEPTACLES, LOW VOLTAGE JUNCTION BOXES, UNUSED JACKS, ETC. ELECTRICAL CONTRACTOR SHALL COORDINATE THOROUGHLY WITH WTC FACILITY PLANT DEPARTMENT AND WTC IT DEPARTMENT FOR REMOVAL OF UNWANTED WIRING DEVICES, BOXES, JACKS, ETC. REMOVE UNWANTED JUNCTION BOXES, CONDUIT AND WIRING BACK TO SOURCE. REFER TO PHOTOS #27/E401, #28/E401, #29/E401, #30/E401, #31/E401, #32/E401, #33/E401, #34/E401, #35/E401, #36/E401, #37/E401, #38/E401, #39/E401, #40/E401, #41/E401, #42/E401, #43/E401, #44/E401, #45/E401, #46/E401, #47/E401, #48/E401, #49/E401, #50/E401, #51/E401, #52/E401, #53/E401, #54/E401, #55/E401, #56/E401, #57/E401, #58/E401, #59/E401, #60/E401, #61/E401, #62/E401, #63/E401, #64/E401, #65/E401, #66/E401, #67/E401, #68/E401, #69/E401, #70/E401, #71/E401, #72/E401, #73/E401, #74/E401, #75/E401, #76/E401, #77/E401, #78/E401, #79/E401, #80/E401, #81/E401, #82/E401, #83/E401, #84/E401, #85/E401, #86/E401, #87/E401, #88/E401, #89/E401, #90/E401, #91/E401, #92/E401, #93/E401, #94/E401, #95/E401, #96/E401, #97/E401, #98/E401, #99/E401, #100/E401.
 - EXISTING SPRINKLER SYSTEM STROBE LIGHT SHALL BE DISCONNECTED, REMOVED AND SALVAGED FOR REINSTALLATION IN THE SAME LOCATION. EXTERIOR WALL SHALL BE FURRED OUT APPROXIMATELY 4". PROVIDE A BOX EXTENSION AS REQUIRED AND REINSTALL EXISTING STROBE LIGHT IN SAME LOCATION. REFER TO PHOTO #23/E401.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING 4-LAMP FLUORESCENT HIGH-BAY LIGHTING FIXTURE. DISCONNECT AND REMOVE EXISTING CORD AND PLUG AND REINSTALL ON NEW LED REPLACEMENT LIGHTING FIXTURE. REUSE EXISTING BRANCH-CIRCUIT AND SWITCH-LEG WIRING TO THE EXTENT POSSIBLE FOR INSTALLATION OF NEW LED LIGHTING FIXTURE IN THIS ROOM. **CAUTION** - LIGHTING FIXTURES INSTALLED APPROXIMATELY 22'-0" A.F.F. REFER TO PHOTO #15/E401.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING 4-LAMP FLUORESCENT STRIP LIGHTING FIXTURE USED FOR EGRESS LIGHTING. DISCONNECT AND REMOVE EXISTING CORD AND PLUG AND REINSTALL ON NEW LED REPLACEMENT LIGHTING FIXTURE. REUSE EXISTING BRANCH-CIRCUIT AND SWITCH-LEG WIRING TO THE EXTENT POSSIBLE FOR INSTALLATION OF NEW LED LIGHTING FIXTURE IN THIS ROOM. **CAUTION** - LIGHTING FIXTURES INSTALLED APPROXIMATELY 22'-0" A.F.F. REFER TO PHOTO #15/E401.
 - EXISTING EXTERIOR LIGHTING FIXTURE SHALL BE DISCONNECTED, REMOVED AND DISPOSED. A NEW LED LIGHTING FIXTURE SHALL BE INSTALLED IN THE SAME LOCATION. EXTERIOR WALL SHALL BE FURRED-OUT APPROXIMATELY 4". PROVIDE A BOX EXTENSION AS REQUIRED. RE-USE EXISTING BRANCH-CIRCUIT AND SWITCH-LEG WIRING TO THE EXTENT POSSIBLE. REFER TO PHOTOS #30/E401, #31/E401, #32/E401, #33/E401, #34/E401, #35/E401, #36/E401, #37/E401, #38/E401, #39/E401, #40/E401, #41/E401, #42/E401, #43/E401, #44/E401, #45/E401, #46/E401, #47/E401, #48/E401, #49/E401, #50/E401, #51/E401, #52/E401, #53/E401, #54/E401, #55/E401, #56/E401, #57/E401, #58/E401, #59/E401, #60/E401, #61/E401, #62/E401, #63/E401, #64/E401, #65/E401, #66/E401, #67/E401, #68/E401, #69/E401, #70/E401, #71/E401, #72/E401, #73/E401, #74/E401, #75/E401, #76/E401, #77/E401, #78/E401, #79/E401, #80/E401, #81/E401, #82/E401, #83/E401, #84/E401, #85/E401, #86/E401, #87/E401, #88/E401, #89/E401, #90/E401, #91/E401, #92/E401, #93/E401, #94/E401, #95/E401, #96/E401, #97/E401, #98/E401, #99/E401, #100/E401.
 - EXISTING LB FITTINGS AND FIBER OPTIC CABLE PEDESTAL TO REMAIN AS IS, ASSIST GENERAL CONTRACTOR AS REQUIRED FOR EXTERIOR WALL CLADDING. REFER TO PHOTO #16/E401.
 - EXISTING 3-WAY LIGHT SWITCH FOR EGRESS LIGHTS AND SINGLE-POLE SWITCH CONTROLLING HIGH BAY LIGHTING FIXTURES TO REMAIN AS IS.
 - EXISTING DUPLEX RECEPTACLE TO REMAIN AS IS, HOWEVER A DEDICATED 20 AMP, 120VAC BRANCH-CIRCUIT IS REQUIRED FOR NEW ICE MACHINE TO BE INSTALLED IN THIS LOCATION. REFER TO POWER SHEETS.
 - EXISTING LB FITTINGS AND ELECTRIC FENCE OPERATOR PANEL TO REMAIN AS IS, ASSIST GENERAL CONTRACTOR AS REQUIRED FOR EXTERIOR WALL CLADDING. REFER TO PHOTO #16/E401.
 - DISCONNECT EXISTING OVERHEAD DOOR OPERATOR AND ASSOCIATED UP/DOWN SWITCHES FOR REMOVAL BY OTHERS. REFER TO PHOTO #32/E401, #33/E401, #34/E401, #35/E401, #36/E401, #37/E401, #38/E401, #39/E401, #40/E401, #41/E401, #42/E401, #43/E401, #44/E401, #45/E401, #46/E401, #47/E401, #48/E401, #49/E401, #50/E401, #51/E401, #52/E401, #53/E401, #54/E401, #55/E401, #56/E401, #57/E401, #58/E401, #59/E401, #60/E401, #61/E401, #62/E401, #63/E401, #64/E401, #65/E401, #66/E401, #67/E401, #68/E401, #69/E401, #70/E401, #71/E401, #72/E401, #73/E401, #74/E401, #75/E401, #76/E401, #77/E401, #78/E401, #79/E401, #80/E401, #81/E401, #82/E401, #83/E401, #84/E401, #85/E401, #86/E401, #87/E401, #88/E401, #89/E401, #90/E401, #91/E401, #92/E401, #93/E401, #94/E401, #95/E401, #96/E401, #97/E401, #98/E401, #99/E401, #100/E401.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING 4-LAMP FLUORESCENT STRIP LIGHTING FIXTURE LOCATED AT TOP OF FIREMAN'S TRAINING TOWER. INSTALL A NEW LED REPLACEMENT LIGHTING FIXTURE. REUSE EXISTING BRANCH-CIRCUIT AND SWITCH-LEG WIRING TO THE EXTENT POSSIBLE FOR INSTALLATION OF NEW LED LIGHTING FIXTURE. **CAUTION** - LIGHTING FIXTURES INSTALLED APPROXIMATELY 22'-0" A.F.F.
 - EXISTING SINGLE-POLE LIGHT SWITCH USED TO CONTROL FIREMAN'S TOWER LIGHTING FIXTURES TO REMAIN AS IS.
 - EXISTING SURFACE JUNCTION BOX AND EMT CONDUIT SHALL BE REMOVED AND REWORKED TO ACCOMMODATE REMODEL WORK.
 - EXISTING MAINTENANCE PIT SHALL BE ABANDONED AND FILLED-IN AND CAPPED WITH CONCRETE. DISCONNECT, REMOVE AND DISPOSE OF ALL ELECTRICAL CONDUIT, JUNCTION BOXES, WIRING, DEVICES, ETC. REFER TO PHOTOS #33/E401 & #34/E401.
 - DISCONNECT EXISTING EMERGENCY MEDICAL, FIREMAN AND POLICE ILLUMINATED EMBLEM SIGNS FOR REMOVAL AND RELOCATION. RECONNECT IN NEW LOCATION AS INDICATED ON LIGHTING PLANS. EXTEND EXISTING BRANCH-CIRCUIT AND SWITCH-LEG WIRING AS REQUIRED. REFER TO PHOTO #35/E401.
 - LOCATION OF EXISTING IT RACK AND ASSOCIATED EQUIPMENT, REMOVE ALL UNUSED LOW VOLTAGE CABLING DUE TO REMODEL WORK BETWEEN EQUIPMENT RACK AND EQUIPMENT AND DATA JACKS. COORDINATE WITH WTC IT DEPARTMENT.
 - LOCATION OF EXISTING LIGHTING CONTACTORS USED FOR INTERIOR AND EXTERIOR LIGHTING FIXTURES.
 - LOCATION OF EXISTING DISCONNECT FEEDING PANELBOARD 'D'.
 - RELOCATE EXISTING EMERGENCY LIGHTING UNIT DUE TO WALL REMOVAL AS REQUIRED. EXTEND EXISTING BRANCH CIRCUIT WIRING AS REQUIRED.
 - DISCONNECT, REMOVE AND DISPOSE OF EXISTING FLUORESCENT STRIP LIGHTING FIXTURE INSTALLED HIGH ON COVE LIGHTING SHELF. REUSE EXISTING BRANCH-CIRCUIT AND SWITCH-LEG WIRING TO THE EXTENT POSSIBLE FOR INSTALLATION OF NEW LED LIGHTING STRIP FIXTURE REPLACEMENT IN THIS ROOM. REFER TO PHOTO #33/E401.
 - DISCONNECT, REMOVE AND REINSTALL EXISTING TANK ALERT ALARM BOX IN UTILITY ROOM #103. EXTEND EXISTING LOW VOLTAGE WIRING TO UTILITY ROOM #103 AS NOTED ON POWER PLANS.
 - DISCONNECT, REMOVE AND SALVAGE EXISTING FIRE ALARM SMOKE DETECTOR FOR REMOVAL OF EXISTING ACOUSTIC SUSPENDED CEILING. REINSTALL AFTER NEW SUSPENDED CEILING INSTALLED. REUSE EXISTING CONDUIT, JUNCTION BOXES, LOW VOLTAGE WIRING, ETC. TO THE EXTENT POSSIBLE FOR REINSTALLATION.
 - EXISTING CLOCK TO REMAIN AS IS.
 - LOCATION OF EXISTING FIRE ALARM CONTROL PANEL. UPGRADE AS NOTED ON FIRE ALARM DRAWINGS.

Project Title: WESTERN TECHNICAL COLLEGE SPARTA PUBLIC SAFETY EXPANSION
Project Location: 11177 COUNTY ROAD A SPARTA, WI 54666
Project Number: HSR # 20028
Project Date: FEBRUARY 2021
Drawn By: HSR
Key Plan:



KEY PLAN

No.	Description	Date
1	ADDENDUM # 3	2-26-21

Graphic Scale: VARIES
Last Update: 02/25/21

E003



HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:



2020 LA CROSSE, WISCONSIN
PHYSICAL ADDRESS: 100 MILWAUKEE STREET
PHYSICAL PHONE: 608.784.1830

**WESTERN TECHNICAL COLLEGE
SPARTA PUBLIC SAFETY EXPANSION**

11177 COUNTY ROAD A
SPARTA, WI 54656

FIRST FLOOR POWER PLAN - AREA A

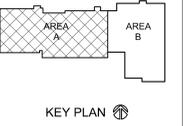
Project Title:
Project Number:
Project Location:
Sheet Title:

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Project Date:
FEBRUARY 2021

Drawn By:
HSR

Key Plan:



KEY PLAN

Revisions:

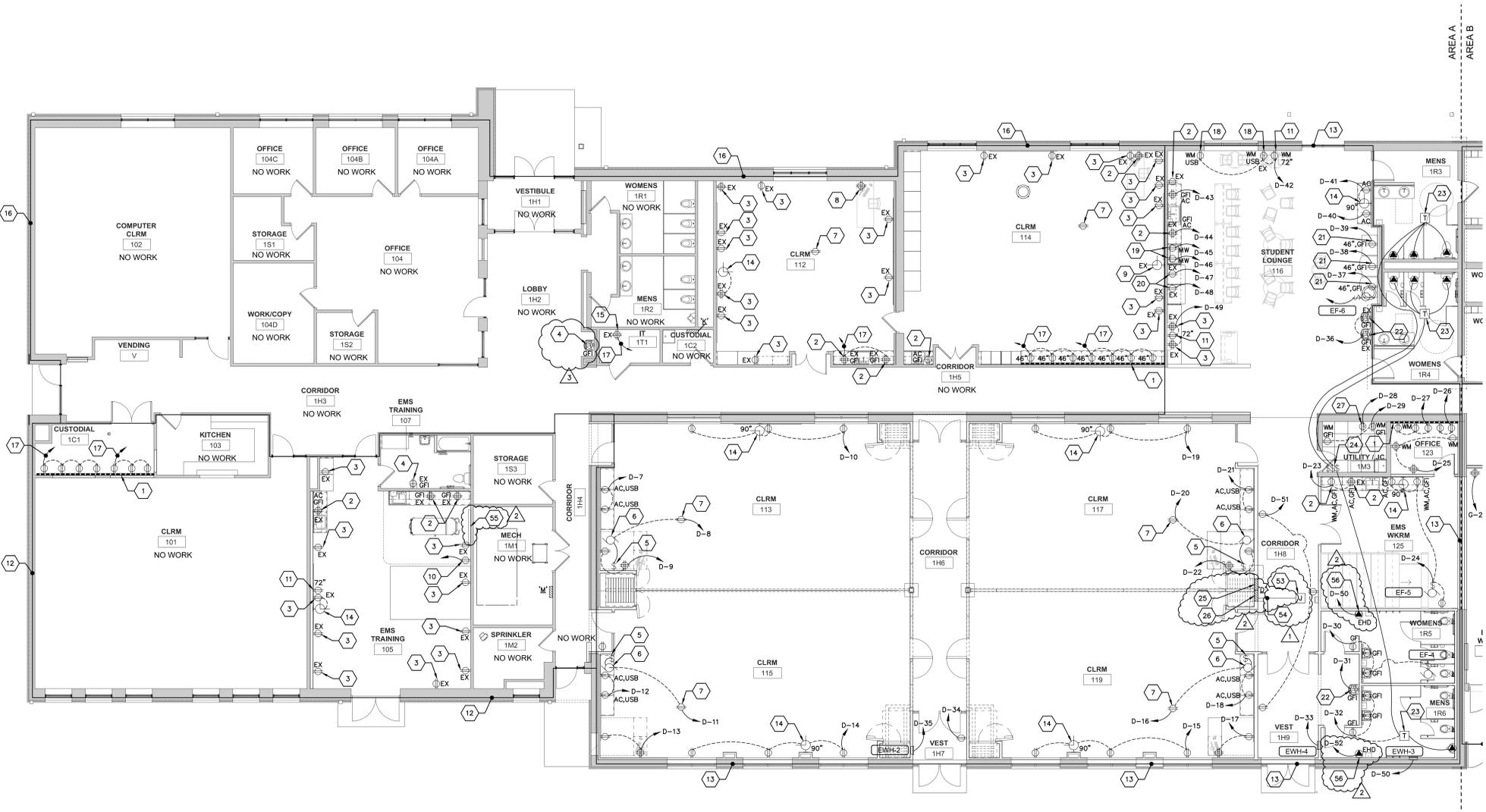
No.	Description	Date
▲	ADDENDUM # 1	2-15-21
▲	ADDENDUM # 2	2-24-21
▲	ADDENDUM # 3	2-26-21

Graphic Scale:

VARIES

Last Update:
02/25/21

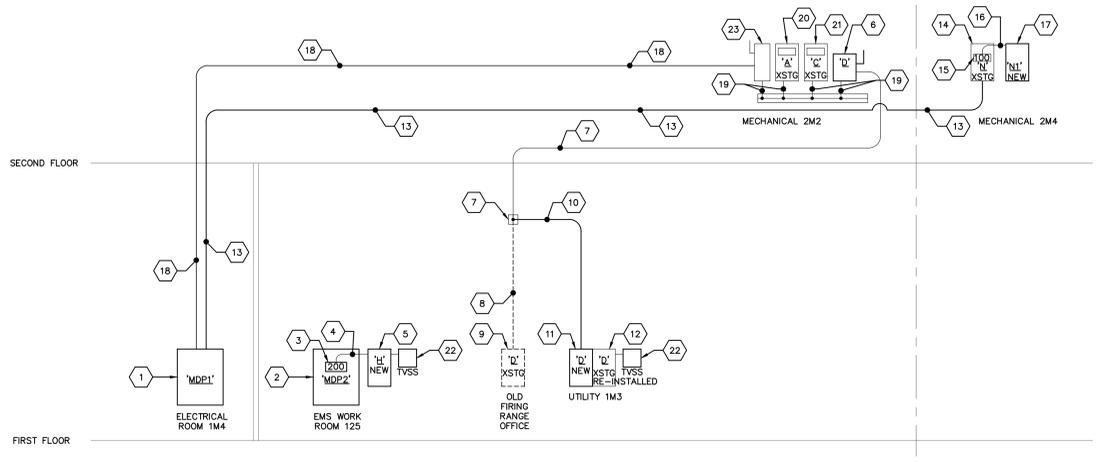
E201



1 FIRST FLOOR POWER PLAN - AREA A
SCALE: 1/8" = 1'-0"
20-07-E-PP01

- KEYED POWER PLAN NOTES:**
1. PROVIDE A WIREMOLD 3000 SERIES SURFACE RACEWAY.
 2. PROVIDE A GFI DUPLEX OR DOUBLE DUPLEX RECEPTACLE AS NOTED AND INSTALL ABOVE COUNTER, REUSE EXISTING JUNCTION BOX AND BRANCH-CIRCUIT WIRING TO THE EXTENT POSSIBLE. RAISE EXISTING JUNCTION BOX TO ABOVE COUNTER AS REQUIRED.
 3. PROVIDE A NEW 20 AMP, 120VAC DUPLEX RECEPTACLE TO REPLACE EXISTING, INSTALL IN EXISTING JUNCTION BOX. REUSE EXISTING BRANCH-CIRCUIT WIRING TO THE EXTENT POSSIBLE. PROVIDE A NEW STAINLESS STEEL COVER PLATE.
 4. PROVIDE A NEW 20 AMP, 120VAC, GFI DUPLEX RECEPTACLE TO REPLACE EXISTING, INSTALL IN EXISTING JUNCTION BOX. REUSE EXISTING BRANCH-CIRCUIT WIRING. PROVIDE A NEW STAINLESS STEEL COVER PLATE.
 5. ELECTRICAL CONTRACTOR SHALL INSTALL UP/DOWN SWITCH PROVIDED BY GENERAL CONTRACTOR FOR MOTORIZED VIDEO PROJECTION SCREEN AND MAKE FINAL CONNECTION. COORDINATE WITH GENERAL CONTRACTOR.
 6. MAKE FINAL CONNECTION TO MOTORIZED CEILING MOUNTED VIDEO PROJECTION SCREEN.
 7. PROVIDE A CEILING MOUNTED 20 AMP, 120VAC DUPLEX RECEPTACLE FOR OVERHEAD VIDEO PROJECTOR CORD AND PLUG CONNECTION. COORDINATE EXACT LOCATION WITH WTC IT DEPARTMENT.
 8. PROVIDE A DOUBLE DUPLEX RECEPTACLE IN THIS APPROXIMATE LOCATION FOR TEACHER'S STATION. REWORK EXISTING JUNCTION BOX AS REQUIRED TO ACCOMMODATE DOUBLE DUPLEX RECEPTACLE. REUSE EXISTING JUNCTION BOX, CONDUIT, BRANCH-CIRCUIT WIRING, ETC. TO THE EXTENT POSSIBLE.
 9. EXISTING LOCK TO REMAIN AS IS.
 10. PROVIDE A DUPLEX RECEPTACLE IN THIS LOCATION FOR AMBULANCE SIMULATOR CORD AND PLUG CONNECTION. FISH INTO EXISTING GYP BOARD TYPE WALL CONSTRUCTION. PROVIDE A RELOCATED 20 AMP, 120VAC BRANCH-CIRCUIT.
 11. PROVIDE A DUPLEX RECEPTACLE FOR WALL-MOUNTED MONITOR. COORDINATE EXACT LOCATION WITH WTC IT DEPARTMENT. FISH INTO EXISTING GYP BOARD TYPE WALL CONSTRUCTION OR PROVIDE SURFACE WIREMOLD 500 FT. ALLOWED BY WTC FACILITY MAINTENANCE DEPARTMENT. REUSE/EXTEND EXISTING BRANCH-CIRCUIT WIRING IN THIS ROOM TO THE EXTENT POSSIBLE.
 12. REUSE EXISTING BRANCH-CIRCUIT WIRING TO ENERGIZE NEW DUPLEX RECEPTABLES FED FROM EXISTING PANELBOARD 'M' LOCATED IN MECHANICAL ROOM 1M3 TO THE EXTENT POSSIBLE FOR THIS AREA. PROVIDE ADDITIONAL 20 AMP, 120VAC BRANCH-CIRCUITS AS REQUIRED PER NEC CODE.
 13. BRANCH-CIRCUIT WIRING TO ENERGIZE NEW DUPLEX RECEPTABLES, ETC. SHALL BE FED FROM PANELBOARD 'N' LOCATED IN UTILITY ROOM 1M3 FOR THIS AREA. PROVIDE BRANCH-CIRCUITS AS NOTED.
 14. ELECTRICAL CONTRACTOR SHALL INSTALL A WTC STANDARDIZED LATHEM AIRTIME CLOCK AND BACKBOX AT THIS LOCATION PROVIDED BY WTC FACILITY MAINTENANCE DEPARTMENT (OWNER). INSTALL A LATHEM AIRTIME BACKBOX WITH 120VAC RECEPTACLE PROVIDED BY OWNER. INSTALL A 120VAC LATHEM AIRTIME WIRELESS CLOCK PROVIDED BY OWNER. PROVIDE A 120VAC BRANCH-CIRCUIT WIRING AND MAKE FINAL CONNECTION AS REQUIRED.
 15. PROVIDE A DOUBLE DUPLEX RECEPTACLE FOR NEW A/V EQUIPMENT RACK. COORDINATE WITH WTC IT DEPARTMENT. PROVIDE A 20 AMP, 120VAC BRANCH-CIRCUIT TO PANELBOARD 'C'.
 16. REUSE EXISTING BRANCH-CIRCUIT WIRING TO ENERGIZE NEW DUPLEX RECEPTABLES FED FROM EXISTING PANELBOARD 'N' LOCATED IN CUSTODIAL ROOM 1C2 TO THE EXTENT POSSIBLE FOR THIS AREA. PROVIDE ADDITIONAL 20 AMP, 120VAC BRANCH-CIRCUITS AS REQUIRED PER NEC CODE.
 17. PROVIDE A 20 AMP, BRANCH-CIRCUIT TO THE NEAREST AVAILABLE PANELBOARD SERVING THIS AREA.
 18. PROVIDE A COMBINATION DUPLEX RECEPTACLE FOR VENDING MACHINE. FEED BRANCH-CIRCUIT FROM A GFI CIRCUIT BREAKER FOR EASY ACCESS TO RESET GFI PROTECTION.
 22. INSTALL GFI RECEPTACLE FOR ELECTRIC WATER COOLER 'OUTSIDE' OF COOLER FOR EASY ACCESS TO RESET GFI PROTECTION.
 23. ELECTRICAL CONTRACTOR SHALL INSTALL 40VA TYPE OF TRANSFORMER FOR PLUMBING VALVE CONTROL. COORDINATE WITH PLUMBING CONTRACTOR. THIS WORK SHALL BE AN 'ADD' ALTERNATE BID, SEE BID FORMS.
 24. PROVIDE A SINGLE-POLE SWITCH TO CONTROL AUTOMATIC FLUSH VALVE TRANSFORMERS, CLEARLY LABEL AS DIRECTED BY WTC FACILITY MAINTENANCE DEPARTMENT.
 25. INSTALL A NEW 225 AMP, 120/208VAC, 3-PHASE, 4-WIRE, 42 SPACE, SQUARE 'D' PANELBOARD 'D' IN THIS ROOM. PROVIDE DOUBLE LUGS TO SUB-FEED REINSTALLED EXISTING PANELBOARD 'D'.
 26. REINSTALL EXISTING PANELBOARD 'D' IN THIS LOCATION FEED FROM NEW PANELBOARD 'D' WITH DOUBLE SUB-FEED LUGS.
 27. PROVIDE A DUPLEX RECEPTACLE FOR EXISTING RELOCATED SEPTIC ALARM CORD AND PLUG CONNECTION. REFER TO PHOTO #35/E201.
 28. REUSE EXISTING BRANCH-CIRCUIT WIRING TO ENERGIZE NEW DUPLEX RECEPTABLES FED FROM EXISTING PANELBOARD 'A' LOCATED IN MEZZANINE MECHANICAL ROOM 2M2 TO THE EXTENT POSSIBLE FOR THIS AREA. PROVIDE ADDITIONAL 20 AMP, 120VAC BRANCH-CIRCUITS AS REQUIRED PER NEC CODE.
 29. REUSE EXISTING BRANCH-CIRCUIT WIRING TO ENERGIZE NEW DUPLEX RECEPTABLES AND MOTORS/EQUIPMENT FED FROM EXISTING PANELBOARDS 'A', 'C', 'C1' LOCATED IN MEZZANINE MECHANICAL ROOM 2M2 TO THE EXTENT POSSIBLE FOR THIS AREA. ALSO REUSE EXISTING BRANCH-CIRCUIT WIRING FED FROM EXISTING PANELBOARD 'I' LOCATED IN ELECTRICAL ROOM 1M4. PROVIDE ADDITIONAL BRANCH-CIRCUITS AS REQUIRED PER NEC CODE FROM THESE PANELBOARDS.
 30. REUSE EXISTING BRANCH-CIRCUIT WIRING TO ENERGIZE NEW DUPLEX RECEPTABLES AND MOTORS/EQUIPMENT FED FROM EXISTING PANELBOARD 'N' LOCATED IN MECHANICAL ROOM 2M4 FOR THIS AREA. PROVIDE ADDITIONAL BRANCH-CIRCUITS AS REQUIRED PER NEC CODE FROM THIS PANELBOARD.
 31. PROVIDE ADDITIONAL BRANCH-CIRCUITS AS REQUIRED PER NEC CODE. IN ADDITION, NEW PANELBOARD 'D' LOCATED IN EMS WORK ROOM #125 IS AVAILABLE FOR REMOVE/WORK.
 33. PROVIDE FOUR (4) 20 AMP, 120VAC, BRANCH-CIRCUITS TO PANELBOARDS 'F' OR 'G' TO FEED MODULAR FURNITURE. COORDINATE WITH WTC FACILITY MAINTENANCE DEPARTMENT.
 32. PROVIDE A JUNCTION BOX IN THIS APPROXIMATE LOCATION TO FEED MODULAR FURNITURE. MAKE DIRECT CONNECTION WITH LIQUID TIGHT FLEXIBLE METAL CONDUIT. COORDINATE WITH WTC FACILITY MAINTENANCE DEPARTMENT.
 33. PROVIDE A 20 AMP, 120/208VAC, 3-PHASE 'D' WIRE RECEPTACLE FOR STACKED WASHER/DRYER.
 34. INSTALL A SPEED CONTROL SWITCH PROVIDED BY HVAC CONTRACTOR TO CONTROL DESTRATIFICATION FANS DF-1, DF-2, DF-3 AND DF-4. PROVIDE A 20 AMP, 120VAC BRANCH-CIRCUIT TO EITHER PANELBOARD 'A', 'C', 'C1', 'F' OR 'G'. ELECTRICAL CONTRACTOR SHALL CHOOSE BEST PANELBOARD TO USE.
 35. INSTALL A DUPLEX RECEPTACLE FOR ICE MACHINE. PROVIDE A 20 AMP, 120VAC BRANCH-CIRCUIT TO EITHER PANELBOARD 'A', 'C', 'C1', 'F' OR 'G'. ELECTRICAL CONTRACTOR SHALL CHOOSE BEST PANELBOARD TO USE.
 36. PROVIDE A 20 AMP, 120VAC BRANCH-CIRCUIT TO PANELBOARD 'A', 'C', OR 'C1' LOCATED ON MEZZANINE MECHANICAL ROOM 2M2.
 37. REUSE EXISTING BRANCH-CIRCUIT WIRING FROM PREVIOUSLY REMOVED OVERHEAD DOORS. FEED NEW OVERHEAD DOORS IN NEW ADDITION IF COMPATIBLE. FIELD VERIFY VOLTAGE AMPERAGE AVAILABLE. OTHERWISE CONNECT OVERHEAD DOORS TO PANELBOARD 'A', 'C', OR 'C1' LOCATED ON MEZZANINE MECHANICAL ROOM 2M2.
 38. PROVIDE A 30 AMP, 208VAC BRANCH-CIRCUIT TO PANELBOARD 'A', 'C', OR 'C1' LOCATED ON MEZZANINE MECHANICAL ROOM 2M2.
 39. INSTALL EXISTING WEATHER-PROOF COVER PLATES PREVIOUSLY REMOVED FROM FITNESS ROOM #105 (REFER TO REMOVAL SHEET E202) IN THIS LOCATION. REFER TO PHOTO #24/E201.
 40. TO SPEED CONTROL SWITCH, REFER TO SHEET E202.
 41. REUSE EXISTING BRANCH-CIRCUIT WIRING TO ENERGIZE NEW DUPLEX RECEPTABLES AND MOTORS/EQUIPMENT FED FROM EXISTING PANELBOARD 'N' LOCATED IN MECHANICAL ROOM 2M4 TO THE EXTENT POSSIBLE FOR THIS AREA. PROVIDE ADDITIONAL BRANCH-CIRCUITS AS REQUIRED PER NEC CODE FROM THIS PANELBOARD.
 42. PROVIDE NEW BRANCH-CIRCUIT WIRING TO ENERGIZE NEW DUPLEX RECEPTABLES AND MOTORS/EQUIPMENT FED FROM PANELBOARD 'N' LOCATED IN MECHANICAL ROOM 2M4 FOR THIS AREA. PROVIDE ADDITIONAL BRANCH-CIRCUITS AS REQUIRED PER NEC CODE FROM THIS PANELBOARD.
 43. IT SHALL BE REQUIRED TO DISCONNECT THE 450 AMP, 3-PHASE, MULTI-STACK CHILLER FOR THE MECHANICAL CONTRACTOR TO INSTALL A NEW DRIP PAN UNDERNEATH. RECONNECT AFTER NEW DRIP PAN INSTALLED. COORDINATE THOROUGHLY WITH MECHANICAL CONTRACTOR.
 44. REUSE EXISTING BRANCH-CIRCUIT AT THIS LOCATION TO FEED NEW MOTOR/EQUIPMENT.
 45. PROVIDE A NEW SQUARE 'D', 225 AMP, MAIN LUG ONLY, 42 SPACE, 208VAC, 3-PHASE, 4-WIRE SUB-PANELBOARD IN THIS APPROXIMATE LOCATION. FEED FROM PANELBOARD 'N' WITH A 100/3 CIRCUIT BREAKER. LABEL PANELBOARD 'N1'.
 46. INSTALL A SPEED CONTROL SWITCH PROVIDED BY HVAC CONTRACTOR TO CONTROL CEILING DESTRATIFICATION FANS DF-1, DF-2, DF-3 AND DF-4.
 47. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A CONNECT TRAC FLOOR SYSTEM. PROVIDE SURFACE MOUNTED COMBINATION POWER AND LOW VOLTAGE MODULES AND SUBMERSE RACKWAY. PROVIDE MODULES WITH COMBINATION DUPLEX RECEPTABLES AND DATA JACKS AS NOTED ON DRAWINGS AND AS REQUIRED BY WTC. CONTACT A CONNECTRAC SALES REPRESENTATIVE FOR MODEL NUMBERS, ETC. THE INTENT IS PROVIDE SURFACE MOUNT CONNECTRAC ON EXISTING ANCHOR NEW CONCRETE FLOOR TO PROVIDE POWER AND LOW VOLTAGE CABLES BETWEEN THE WALL TO A FLOOR MOUNTED COMBINATION POWER/LOW VOLTAGE MODULES.
 48. DISCONNECT, REMOVE AND DISPOSE OF EXISTING 225 AMP, 120/208VAC, 3-PHASE, 42 SPACE, MAIN LUG ONLY 'GE' PANELBOARD AND REPLACE WITH A 225 AMP, 120/208VAC, 3-PHASE, 52 SPACE, MID SQUARE 'D' PANELBOARD. REFER TO PANELBOARD SCHEDULE FOR EXISTING CIRCUIT BREAKER INFORMATION.
 49. PROVIDE A NEW 225 AMP, 120/208VAC, 3-PHASE, 4-WIRE, 42 SPACE, MAIN LUG ONLY SQUARE 'D' PANELBOARD 'H' FEED FROM 'MDP2' DISTRIBUTION PANELBOARD. USE AN EXISTING 200/3 CIRCUIT BREAKER IN 'MDP2' TO ENERGIZE NEW PANELBOARD.
 50. PROVIDE A CEILING MOUNTED DUPLEX RECEPTACLE TO MATCH CORD AND PLUG CONNECTION OF MOTOR/EQUIPMENT.
 51. EF-3 HAS BEEN RELOCATED. REUSE EXISTING BRANCH-CIRCUIT FROM PREVIOUS LOCATION AND EXTEND TO RELOCATED POSITION.
 52. PROVIDE AN EMERGENCY MUSHROOM TYPE SHUT-OFF SWITCH TO DE-ENERGIZE ALL EXISTING BOILERS AND BOILER PUMPS IN THIS ROOM. CONNECT TO SHUNT-TRIP CIRCUIT BREAKERS IN PANELBOARD 'N'. PROVIDE A NEW SHUNT-TRIP CIRCUIT BREAKER IN EXISTING PANELBOARD 'I' IF REQUIRED FOR EXISTING BOILERS TO REMAIN. FIELD VERIFY. COORDINATE WITH HVAC CONTRACTOR.
 53. APPROXIMATE LOCATION OF PREVIOUSLY REMOVED PANELBOARD 'D'. PROVIDE A JUNCTION BOX ABOVE SUSPENDED CEILING TO INTERRUPT 200 AMP FEEDER. EXTEND EXISTING 200 AMP FEEDER TO RELOCATED PANELBOARD 'D' IN UTILITY ROOM 1M3. REFER TO ELECTRIC RISER DIAGRAM 2/E201.
 55. ELECTRICAL CONTRACTOR SHALL INSTALL AND MAKE FINAL 120VAC CONNECTION TO A HILL-ROM HOSPITAL HEAD BOARD PROVIDED BY WTC (OWNER). REFER TO PHOTO #1/E201.
 56. ELECTRICAL CONTRACTOR SHALL INSTALL AND MAKE FINAL 120VAC CONNECTION TO A ELECTRIC HAND DRYER PROVIDED BY WTC (OWNER). REFER TO PHOTO #1/E201.
 57. ELECTRICAL CONTRACTOR SHALL DISCONNECT EXISTING MOTORIZED GARAGE DOOR FOR REMOVAL AND REPLACEMENT BY OTHERS. RECONNECT NEW REPLACED MOTORIZED GARAGE DOOR AS REQUIRED. REUSE EXISTING BRANCH-CIRCUIT WIRING, DISCONNECT, CONDUIT, JUNCTION BOXES, ETC. TO THE EXTENT POSSIBLE.
 58. ELECTRICAL CONTRACTOR SHALL DISCONNECT, REMOVE AND DISPOSE OF EXISTING 225 AMP, 120/208VAC, 3-PHASE, 4-WIRE GENERAL ELECTRIC PANELBOARDS 'A' & 'C' AND REPLACE WITH NEW SQUARE 'D' PANELBOARDS AS NOTED ON PARTIAL ELECTRICAL RISER DIAGRAM 2/E201.

- KEYED ELECTRIC RISER DIAGRAM NOTES:**
1. EXISTING 1,200 AMP, 120/208VAC, 3-PHASE, 4-WIRE MAIN DISTRIBUTION PANEL 'MDP1' TO REMAIN AS IS.
 2. EXISTING 800 AMP, 120/208VAC, 3-PHASE, 4-WIRE MAIN DISTRIBUTION PANEL 'MDP2' TO REMAIN AS IS.
 3. USE EXISTING 200/3 CIRCUIT BREAKER IN 'MDP2' TO FEED NEW PANELBOARD 'H'.
 4. PROVIDE 4 #3/0 THWN-2 AND 1 #6 THWN-2 (GRD) IN 2" EMT CONDUIT FOR 200 AMP FEEDER.
 5. PROVIDE A NEW 225 AMP, 120/208VAC, 3-PHASE, 4-WIRE, 42-SPACE, MAIN LUG ONLY SQUARE 'D' PANELBOARD 'H'.
 6. EXISTING 200 AMP, 120/208VAC, 3-POLE WITH SOLID NEUTRAL DISCONNECT SWITCH FOR PANELBOARD 'D' TO REMAIN AS IS.
 7. INTERRUPT EXISTING 200 AMP, FEEDER TO PANELBOARD 'D' FOR RELOCATION OF PANELBOARD. PROVIDE A 18"x18"x6" JUNCTION BOX ABOVE SUSPENDED CEILING FOR TERMINATING EXISTING EMT CONDUIT AND FOR SPLICING EXISTING FEEDER CONDUCTORS. RELOCATE EXISTING PANELBOARD 'D' TO UTILITY ROOM #1M3. EXTEND EXISTING 200 AMP, COPPER FEEDER AS REQUIRED. REFER TO POWER SHEET E201.
 8. DISCONNECT AND REMOVE PARTIAL 200 AMP COPPER FEEDER TO ABOVE SUSPENDED CEILING.
 9. RELOCATE EXISTING 225 AMP, 120/208VAC, 3-PHASE, 4-WIRE SQUARE 'D' PANELBOARD TO UTILITY ROOM #1M3.
 10. EXTEND EXISTING 200 AMP, 120/208VAC, 3-PHASE, 4-WIRE COPPER FEEDER TO REINSTALLED LOCATION ON UTILITY ROOM '1M3'.
 11. INSTALL A NEW SQUARE 'D', 225 AMP, 120/208VAC, 3-PHASE, 4-WIRE, 42-SPACE, MAIN LUG ONLY PANELBOARD IN UTILITY ROOM #1M3. PROVIDE SUB-FEED LUGS WITH THIS PANELBOARD.
 12. REINSTALL A PREVIOUSLY REMOVED EXISTING SQUARE 'D', 225 AMP, 120/208VAC, 3-PHASE, 4-WIRE PANELBOARD IN UTILITY ROOM #1M3.
 13. EXISTING 225 AMP, 120/208VAC, 3-PHASE, 4-WIRE COPPER FEEDER TO REMAIN AS IS FEEDING EXISTING PANELBOARD 'N'.
 14. EXISTING 225 AMP, 120/208 VAC, 3-PHASE, 4-WIRE, SQUARE 'D' PANELBOARD 'N' TO REMAIN AS IS.
 15. PROVIDE A 100/3 CIRCUIT BREAKER IN PANELBOARD TO FEED SUBPANEL 'N1'.
 16. PROVIDE 4 #3 THWN-2 AND 1 #6 THWN-2 (GRD) IN 1 1/2" EMT CONDUIT FOR 100 AMP FEEDER.
 17. PROVIDE A NEW 125 AMP, 120/208VAC, 3-PHASE, 4-WIRE, 42-SPACE, MAIN LUG ONLY PANELBOARD 'N1'.
 18. EXISTING 500 AMP, 120/208VAC, 4-WIRE COPPER FEEDER TO REMAIN AS IS, LABELED 'OLD SERVICE' IN MOPF.
 19. EXISTING FEEDER TAP CONDUCTORS TO REMAIN AS IS.
 20. EXISTING 225 AMP, 'GENERAL ELECTRIC', 120/208VAC, 4-WIRE, MAIN CT. BRK. PANELBOARD 'A' SHALL BE DISCONNECTED AND REMOVED. REPLACE EXISTING PANELBOARD WITH A NEW SQUARE 'D', 225 AMP, 120/208VAC, 3-PHASE, 4-WIRE, MAIN CT. BRK., 52 SPACE (MINIMUM) PANELBOARD. REFER TO PANELBOARD SCHEDULE FOR CIRCUIT BREAKER INFORMATION. THE INTENT IS TO REPLACE THE EXISTING GE PANELBOARD WITH NEW SQUARE 'D' IN SAME LOCATION.
 21. EXISTING 225 AMP, 'GENERAL ELECTRIC', 120/208VAC, 4-WIRE, MAIN CT. BRK. PANELBOARD 'C' SHALL BE DISCONNECTED AND REMOVED. REPLACE EXISTING PANELBOARD WITH A NEW SQUARE 'D', 225 AMP, 120/208VAC, 3-PHASE, 4-WIRE, MAIN CT. BRK., 52 SPACE (MINIMUM) PANELBOARD. REFER TO PANELBOARD SCHEDULE FOR CIRCUIT BREAKER INFORMATION. THE INTENT IS TO REPLACE THE EXISTING GE PANELBOARD WITH NEW SQUARE 'D' IN SAME LOCATION.
 22. PROVIDE A TIE SURGE SUPPRESSOR DEVICE AS SPECIFIED.
 23. EXISTING 600/3 DISCONNECT FOR 'OLD SERVICE' TO REMAIN AS IS.



2 PARTIAL ELECTRICAL RISER DIAGRAM
SCALE: 1/8" = 1'-0"
20-07-E-RISER-DIA



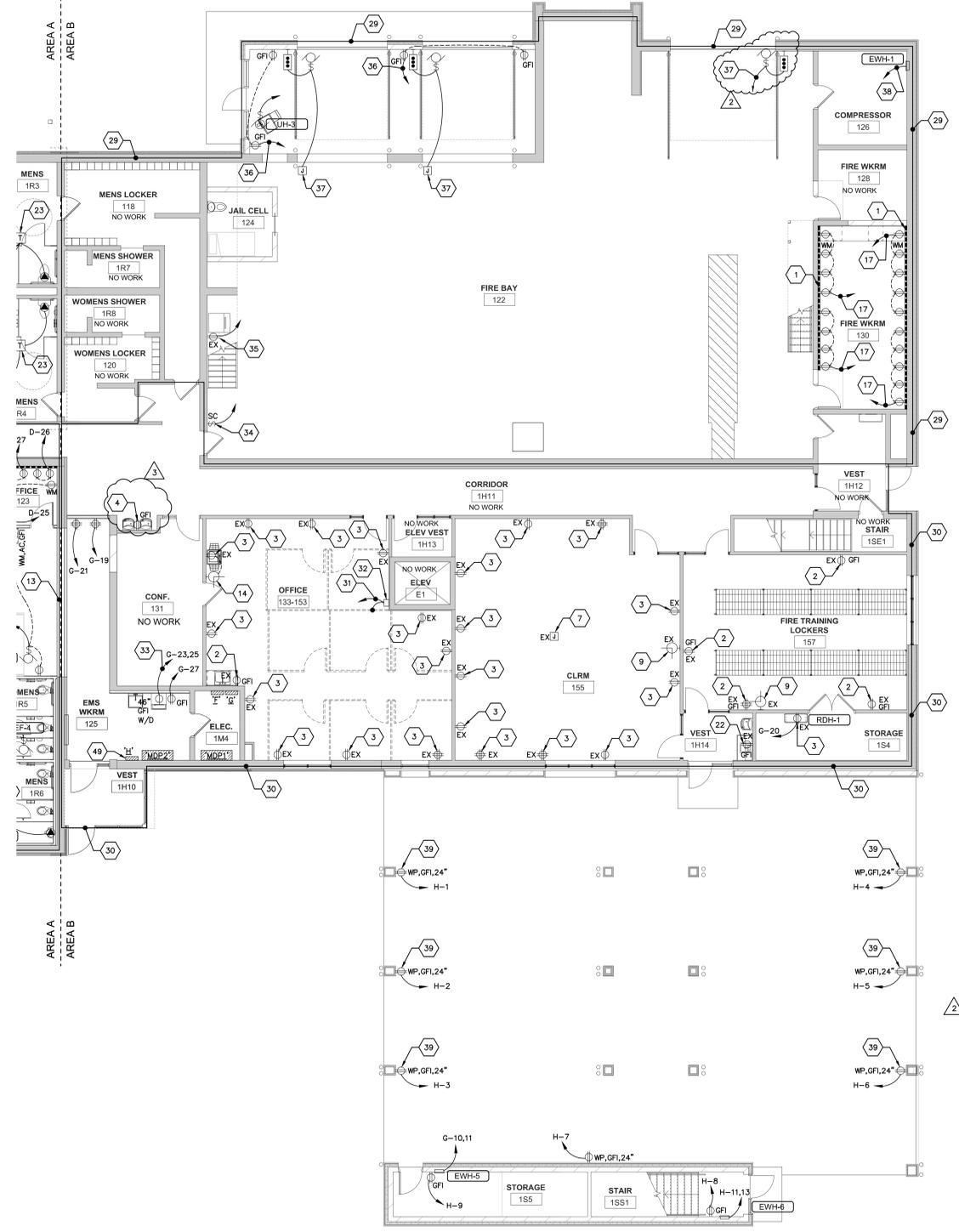
PHOTO #1
3545



Consultant:



WESTERN TECHNICAL COLLEGE
SPARTA PUBLIC SAFETY EXPANSION
11177 COUNTY ROAD A
SPARTA, WI 54666
FIRST FLOOR POWER PLAN - AREA B

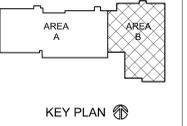


- KEYED POWER PLAN NOTES:**
1. PROVIDE A WIREMOLD 3000 SERIES SURFACE RACEWAY.
 2. PROVIDE A GFI DUPLEX OR DOUBLE DUPLEX RECEPTACLE AS NOTED AND INSTALL ABOVE COUNTER, REUSE EXISTING JUNCTION BOX AND BRANCH CIRCUIT WIRING TO THE EXTENT POSSIBLE. RAISE EXISTING JUNCTION BOX TO ABOVE COUNTER AS REQUIRED.
 3. PROVIDE A NEW 20 AMP, 120VAC DUPLEX RECEPTACLE TO REPLACE EXISTING, INSTALL IN EXISTING JUNCTION BOX, REUSE EXISTING BRANCH CIRCUIT WIRING TO THE EXTENT POSSIBLE. PROVIDE A NEW STAINLESS STEEL COVER PLATE.
 4. PROVIDE A NEW 20 AMP, 120VAC, GFI DUPLEX RECEPTACLE TO REPLACE EXISTING, INSTALL IN EXISTING JUNCTION BOX, REUSE EXISTING BRANCH CIRCUIT WIRING. PROVIDE A NEW STAINLESS STEEL COVER PLATE.
 5. ELECTRICAL CONTRACTOR SHALL INSTALL UP/DOWN SWITCH PROVIDED BY GENERAL CONTRACTOR FOR MOTORIZED VIDEO PROJECTION SCREEN AND MAKE FINAL CONNECTION. COORDINATE WITH GENERAL CONTRACTOR.
 6. MAKE FINAL CONNECTION TO MOTORIZED CEILING MOUNTED VIDEO PROJECTION SCREEN.
 7. PROVIDE A CEILING MOUNTED 20 AMP, 120VAC DUPLEX RECEPTACLE FOR OVERHEAD VIDEO PROJECTOR CORD AND PLUG CONNECTION. COORDINATE EXACT LOCATION WITH WTC IT DEPARTMENT.
 8. PROVIDE A DOUBLE DUPLEX RECEPTACLE IN THIS APPROXIMATE LOCATION FOR TEACHER'S STATION, REWORK EXISTING JUNCTION BOX AS REQUIRED TO ACCOMMODATE DOUBLE DUPLEX RECEPTACLE. REUSE EXISTING JUNCTION BOX, CONDUIT, BRANCH CIRCUIT WIRING, ETC. TO THE EXTENT POSSIBLE.
 9. EXISTING CLOCK TO REMAIN AS IS.
 10. PROVIDE A DUPLEX RECEPTACLE IN THIS LOCATION FOR AMBULANCE SIMULATOR CORD AND PLUG CONNECTION. FISH INTO EXISTING GFI BOARD TYPE WALL CONSTRUCTION. PROVIDE A DEDICATED 20 AMP, 120VAC BRANCH CIRCUIT.
 11. PROVIDE A DUPLEX RECEPTACLE FOR WALL-MOUNTED MONITOR, COORDINATE EXACT LOCATION WITH WTC IT DEPARTMENT. FISH INTO EXISTING GYP, BOARD TYPE WALL CONSTRUCTION OR PROVIDE SURFACE WIREMOLD 500 IF ALLOWED BY WTC FACILITY MAINTENANCE DEPARTMENT. REUSE/EXTEND EXISTING BRANCH CIRCUIT WIRING IN THIS ROOM TO THE EXTENT POSSIBLE.
 12. REUSE EXISTING BRANCH CIRCUIT WIRING TO ENERGIZE NEW DUPLEX RECEPTACLES FED FROM EXISTING PANELBOARD 'M' LOCATED IN MECHANICAL ROOM 1M1 TO THE EXTENT POSSIBLE FOR THIS AREA. PROVIDE ADDITIONAL 20 AMP, 120VAC BRANCH-CIRCUITS AS REQUIRED PER NEC CODE.
 13. BRANCH CIRCUIT WIRING TO ENERGIZE NEW DUPLEX RECEPTACLES, ETC. SHALL BE FED FROM PANELBOARD 'D' LOCATED IN UTILITY ROOM 1M3 FOR THIS AREA. PROVIDE BRANCH-CIRCUITS AS NOTED.
 14. ELECTRICAL CONTRACTOR SHALL INSTALL A WTC STANDARDIZED LATHEM AIRTIME CLOCK AND BACKBOX AT THIS LOCATION PROVIDED BY WTC FACILITY MAINTENANCE DEPARTMENT (OWNER). INSTALL A LATHEM AIRTIME BACKBOX WITH 120VAC RECEPTACLE PROVIDED BY OWNER. INSTALL A 120VAC LATHEM AIRTIME WIRELESS CLOCK PROVIDED BY OWNER. PROVIDE A 120VAC BRANCH-CIRCUIT WIRING AND MAKE FINAL CONNECTION AS REQUIRED.
 15. PROVIDE A DOUBLE DUPLEX RECEPTACLE FOR NEW AV EQUIPMENT RACK, COORDINATE WITH WTC IT DEPARTMENT. PROVIDE A 20 AMP, 120VAC BRANCH CIRCUIT TO PANELBOARD 'C'.
 16. REUSE EXISTING BRANCH-CIRCUIT WIRING TO ENERGIZE NEW DUPLEX RECEPTACLES FED FROM EXISTING PANELBOARD 'X' LOCATED IN CUSTODIAN ROOM 1C2 TO THE EXTENT POSSIBLE FOR THIS AREA. PROVIDE ADDITIONAL 20 AMP, 120VAC BRANCH-CIRCUITS AS REQUIRED PER NEC CODE.
 17. PROVIDE A 20 AMP, BRANCH-CIRCUIT TO THE NEAREST AVAILABLE PANELBOARD SERVING THIS AREA.
 18. PROVIDE A COMBINATION DUPLEX RECEPTACLE CHARGER.
 19. PROVIDE A DUPLEX RECEPTACLE FOR MICROWAVE OVEN, LOCATE RECEPTACLE AS DIRECTED BY WTC FACILITY MAINTENANCE DEPARTMENT. RECEPTACLE SHALL BE LOCATED FOR EASY ACCESS TO CORD AND PLUG CONNECTION.
 20. PROVIDE A DUPLEX RECEPTACLE FOR REFRIGERATOR, REUSE EXISTING JUNCTION BOX TO THE EXTENT POSSIBLE. RAISE EXISTING JUNCTION BOX IF REQUIRED.
 21. PROVIDE A DUPLEX RECEPTACLE FOR WINDING MACHINE, FEED BRANCH CIRCUIT FROM A GFI CIRCUIT BREAKER FOR EASY ACCESS TO RESET GFI PROTECTION.
 22. INSTALL GFI RECEPTACLE FOR ELECTRIC WATER COOLER 'OUTSIDE' OF COOLER FOR EASY ACCESS TO RESET GFI PROTECTION.
 23. ELECTRICAL CONTRACTOR SHALL INSTALL 40VA TYPE OF TRANSFORMER FOR PLUMBING VALVE CONTROL, COORDINATE WITH PLUMBING CONTRACTOR. THIS WORK SHALL BE AN 'ADD' ALTERNATE BID, SEE BID FORMS.
 24. PROVIDE A SINGLE-POLE SWITCH TO CONTROL AUTOMATIC FRESH VALVE TRANSFORMERS, CLEARLY LABEL AS DIRECTED BY WTC FACILITY MAINTENANCE DEPARTMENT.
 25. INSTALL A NEW 225 AMP, 120/208VAC, 3-PHASE, 4-WIRE, 42 SPACE, SQUARE 'D' PANELBOARD 'D' IN THIS ROOM. PROVIDE DOUBLE LUGS TO SUB-FEED REINSTALLED EXISTING PANELBOARD 'D'.
 26. REINSTALL EXISTING PANELBOARD 'D' IN THIS LOCATION FEED FROM NEW PANELBOARD 'D' WITH DOUBLE SUB-FEED LUGS.
 27. PROVIDE A DUPLEX RECEPTACLE FOR EXISTING RELOCATED SEPTIC ALARM CORD AND PLUG CONNECTION. REFER TO PHOTO #35/E201.
 28. REUSE EXISTING BRANCH-CIRCUIT WIRING TO ENERGIZE NEW DUPLEX RECEPTACLES FED FROM EXISTING PANELBOARD 'A' LOCATED IN MEZZANINE MECHANICAL ROOM 2M2 TO THE EXTENT POSSIBLE FOR THIS AREA. PROVIDE ADDITIONAL 20 AMP, 120VAC BRANCH-CIRCUITS AS REQUIRED PER NEC CODE.
 29. REUSE EXISTING BRANCH CIRCUIT WIRING TO ENERGIZE NEW DUPLEX RECEPTACLES AND MOTORS/EQUIPMENT FED FROM EXISTING PANELBOARDS 'A', 'C', 'C1' LOCATED IN MEZZANINE MECHANICAL ROOM 2M2 TO THE EXTENT POSSIBLE FOR THIS AREA. ALSO REUSE EXISTING BRANCH-CIRCUIT WIRING FED FROM EXISTING PANELBOARD 'F' LOCATED IN ELECTRICAL ROOM 1M4. PROVIDE ADDITIONAL BRANCH-CIRCUITS AS REQUIRED PER NEC CODE FROM THESE PANELBOARDS.
 30. REUSE EXISTING BRANCH CIRCUITS FED FROM EXISTING PANELBOARDS 'A', 'C', 'C1' LOCATED IN ELECTRICAL ROOM 1M4 TO THE EXTENT POSSIBLE FOR THIS AREA. PROVIDE ADDITIONAL BRANCH-CIRCUITS AS REQUIRED PER NEC CODE. IN ADDITION, NEW PANELBOARD 'Y' LOCATED IN EMS WORK ROOM #125 IS AVAILABLE FOR REMODEL WORK.
 31. PROVIDE FOUR (4) 20 AMP, 120VAC, BRANCH-CIRCUITS TO PANELBOARDS 'F' OR 'D' TO FEED MODULAR FURNITURE. COORDINATE WITH WTC FACILITY MAINTENANCE DEPARTMENT.
 32. PROVIDE A JUNCTION BOX IN THIS APPROXIMATE LOCATION TO FEED MODULAR FURNITURE. MAKE DIRECT CONNECTION WITH LIQUID TIGHT FLEXIBLE METAL CONDUIT. COORDINATE WITH WTC FACILITY MAINTENANCE DEPARTMENT.
 33. PROVIDE A 30 AMP, 120/208VAC, SINGLE-PHASE 'DRYER' RECEPTACLE FOR STACKED WASHER/DRYER.
 34. INSTALL A SPEED CONTROL SWITCH PROVIDED BY HVAC CONTRACTOR TO CONTROL DESTRATIFICATION FANS DF-1, DF-2, DF-3 AND DF-4. PROVIDE A 20 AMP, 120VAC BRANCH-CIRCUIT TO EITHER PANELBOARD 'A', 'C', 'C1', 'F' OR 'G'. ELECTRICAL CONTRACTOR SHALL CHOOSE BEST PANELBOARD TO USE.
 35. INSTALL A DUPLEX RECEPTACLE FOR ICE MACHINE. PROVIDE A 20 AMP, 120VAC BRANCH-CIRCUIT TO EITHER PANELBOARD 'A', 'C', 'C1', 'F' OR 'G'. ELECTRICAL CONTRACTOR SHALL CHOOSE BEST PANELBOARD TO USE.
 36. PROVIDE A 20 AMP, 120VAC BRANCH-CIRCUIT TO PANELBOARD 'A', 'C', OR 'C1' LOCATED ON MEZZANINE MECHANICAL ROOM 2M2.
 37. REUSE EXISTING BRANCH CIRCUIT WIRING FROM PREVIOUSLY REMOVED OVERHEAD DOORS. FEED NEW OVERHEAD DOORS IN NEW ADDITION IF COMPATIBLE. FIELD VERIFY VOLTAGE AMPERAGE AVAILABLE. OTHERWISE CONNECT OVERHEAD DOORS TO PANELBOARD 'A', 'C', OR 'C1' LOCATED ON MEZZANINE MECHANICAL ROOM 2M2.
 38. PROVIDE A 30 AMP, 208VAC BRANCH-CIRCUIT TO PANELBOARD 'A', 'C', OR 'C1' LOCATED ON MEZZANINE MECHANICAL ROOM 2M2.
 39. INSTALL EXISTING WEATHER-PROOF COVER PLATES PREVIOUSLY REMOVED FROM FITNESS ROOM #105 (REFER TO REMOVAL SHEET E001) IN THIS LOCATION. REFER TO PHOTO #24/E202.
 40. TO SPEED CONTROL SWITCH, REFER TO SHEET E202.
 41. REUSE EXISTING BRANCH CIRCUIT WIRING TO ENERGIZE NEW DUPLEX RECEPTACLES AND MOTORS/EQUIPMENT FED FROM EXISTING PANELBOARD 'N' LOCATED IN MECHANICAL ROOM 2M4 TO THE EXTENT POSSIBLE FOR THIS AREA. PROVIDE ADDITIONAL BRANCH-CIRCUITS AS REQUIRED PER NEC CODE FROM THIS PANELBOARD.
 42. PROVIDE NEW BRANCH-CIRCUIT WIRING TO ENERGIZE NEW DUPLEX RECEPTACLES AND MOTORS/EQUIPMENT FED FROM PANELBOARD 'N1' LOCATED IN MECHANICAL ROOM 2M4 FOR THIS AREA. PROVIDE ADDITIONAL BRANCH-CIRCUITS AS REQUIRED PER NEC CODE FROM THIS PANELBOARD.
 43. IT SHALL BE REQUIRED TO DISCONNECT THE 450 AMP, 208VAC, 3-PHASE, MULTI-STACK CHILLER FOR THE MECHANICAL CONTRACTOR TO INSTALL A NEW DRIP PAN UNDERNEATH. RECONNECT AFTER NEW DRIP PAN INSTALLED. COORDINATE THOROUGHLY WITH MECHANICAL CONTRACTOR.
 44. REUSE EXISTING BRANCH-CIRCUIT AT THIS LOCATION TO FEED NEW MOTOR/EQUIPMENT.
 45. PROVIDE A NEW SQUARE 'D', 225 AMP, MAIN LUG ONLY, 42-SPACE, 208VAC, 3-PHASE, 4-WIRE SUB-PANELBOARD IN THIS APPROXIMATE LOCATION. FEED FROM PANELBOARD 'N' WITH A 100'S CIRCUIT BREAKER. LABEL PANELBOARD 'N1'.
 46. INSTALL A SPEED CONTROL SWITCH PROVIDED BY HVAC CONTRACTOR TO CONTROL CEILING DESTRATIFICATION FANS DFC-1, DFC-2, DFC-3 AND DFC-4.
 47. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A 'CONNECT TRAC' FLOOR SYSTEM. PROVIDE SURFACE MOUNTED COMBINATION POWER AND LOW VOLTAGE MODULES AND SURFACE RACEWAY. PROVIDE MODULES WITH COMBINATION DUPLEX RECEPTACLES AND DATA JACKS AS NOTED ON DRAWINGS AND AS REQUIRED BY WTC. CONTACT A CONNECTRAC SALES REPRESENTATIVE FOR MODEL NUMBERS, ETC. THE INTENT IS PROVIDE SURFACE MOUNT CONNECTION ON EXISTING AND/OR NEW CONCRETE FLOOR TO PROVIDE POWER AND LOW VOLTAGE CABLES BETWEEN THE WALL TO A FLOOR MOUNTED COMBINATION POWER/LOW VOLTAGE MODULES.
 48. DISCONNECT, REMOVE AND DISPOSE OF EXISTING 225 AMP, 120/208VAC, 3-PHASE, 42 SPACE, MAIN LUG ONLY 'DE' PANELBOARD AND REPLACE WITH A 225 AMP, 120/208VAC, 3-PHASE, 52 SPACE, MAIN LUG ONLY 'D' PANELBOARD. REFER TO PANELBOARD SCHEDULE FOR EXISTING CIRCUIT BREAKER INFORMATION.
 49. PROVIDE A NEW 225 AMP, 120/208VAC, 3-PHASE, 4-WIRE, 42 SPACE, MAIN LUG ONLY SQUARE 'D' PANELBOARD 'H' FED FROM 'MDP2' DISTRIBUTION PANELBOARD. USE AN EXISTING 200'S CIRCUIT BREAKER IN 'MDP2' TO ENERGIZE NEW PANELBOARD.
 50. PROVIDE A CEILING MOUNTED DUPLEX RECEPTACLE TO MATCH CORD AND PLUG CONNECTION OF MOTOR EQUIPMENT.
 51. EF-3 HAS BEEN RELOCATED; REUSE EXISTING BRANCH CIRCUIT FROM PREVIOUS LOCATION AND EXTEND TO RELOCATED POSITION.
 52. PROVIDE AN EMERGENCY MUSHROOM TYPE SHUT-OFF SWITCH TO DE-ENERGIZE ALL EXISTING BOILERS AND BOILER PUMPS IN THIS ROOM. CONNECT TO SHUNT-TRIP CIRCUIT BREAKERS IN PANELBOARD 'N'. PROVIDE A NEW SHUNT-TRIP CIRCUIT BREAKER IN EXISTING PANELBOARD 'I' IF REQUIRED FOR EXISTING BOILERS TO REMAIN. FIELD VERIFY. COORDINATE WITH HVAC CONTRACTOR.
 53. APPROXIMATE LOCATION OF PREVIOUSLY REMOVED PANELBOARD 'D'. PROVIDE A JUNCTION BOX ABOVE SUSPENDED CEILING TO INTERRUPT 200 AMP FEEDER. EXTEND EXISTING 200 AMP FEEDER TO RELOCATED PANELBOARD 'D' IN UTILITY ROOM 1M3. REFER TO ELECTRICAL RISER DIAGRAM 2/E201.
 54. ELECTRICAL CONTRACTOR SHALL REMOVE PREVIOUSLY REMOVED PANELBOARD 'D' AS NOTED.
 55. ELECTRICAL CONTRACTOR SHALL INSTALL AND MAKE FINAL 120VAC CONNECTION TO A HILL-ROM HOSPITAL HEAD BOARD PROVIDED BY WTC (OWNER). REFER TO PHOTO #3/E201.
 56. ELECTRICAL CONTRACTOR SHALL INSTALL AND MAKE FINAL 120VAC CONNECTION TO A ELECTRIC HAND DRYER PROVIDED BY WTC (OWNER).
 57. ELECTRICAL CONTRACTOR SHALL DISCONNECT EXISTING MOTORIZED GARAGE DOOR FOR REMOVAL AND REPLACEMENT BY OTHERS. RECONNECT NEW REPLACED MOTORIZED GARAGE DOOR AS REQUIRED. REUSE EXISTING BRANCH-CIRCUIT WIRING, DISCONNECT, CONDUIT, JUNCTION BOXES, ETC. TO THE EXTENT POSSIBLE.
 58. ELECTRICAL CONTRACTOR SHALL DISCONNECT, REMOVE AND DISPOSE OF EXISTING 225 AMP, 120/208VAC, 3-PHASE, 4-WIRE GENERAL ELECTRIC PANELBOARDS 'A' & 'C' AND REPLACE WITH NEW SQUARE 'D' PANELBOARDS AS NOTED ON PARTIAL ELECTRICAL RISER DIAGRAM 2/E201.

1 FIRST FLOOR POWER PLAN - AREA B
SCALE: 1/8" = 1'-0"
20-07-E-PP01

Project Title:
Project Number:
Project Date:
Drawn By:
Key Plan:

HSR # 20028
FEBRUARY 2021
HSR



Revisions:

No.	Description	Date
Δ 1	ADDENDUM # 2	2-24-21
Δ 2	ADDENDUM # 3	2-26-21

Graphic Scale:
VARIES
Last Update:
02/25/21



HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com



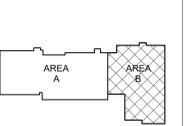
galileo
CONSULTING GROUP
2020 LA CROSSE, WISCONSIN 54601
PH: 608.784.1830 FAX: 608.782.5844

WESTERN TECHNICAL COLLEGE
SPARTA PUBLIC SAFETY EXPANSION
Project Title:
Project Number:
HSR # 20028
Project Date:
FEBRUARY 2021
Drawn By:
HSR
Key Plan:
11177 COUNTY ROAD A
SPARTA, WI 54666
Project Location:
SECOND FLOOR POWER PLAN - AREA B
Sheet Title:
Sheet No.:

HSR Project Number:
HSR # 20028

Project Date:
FEBRUARY 2021

Drawn By:
HSR



KEY PLAN

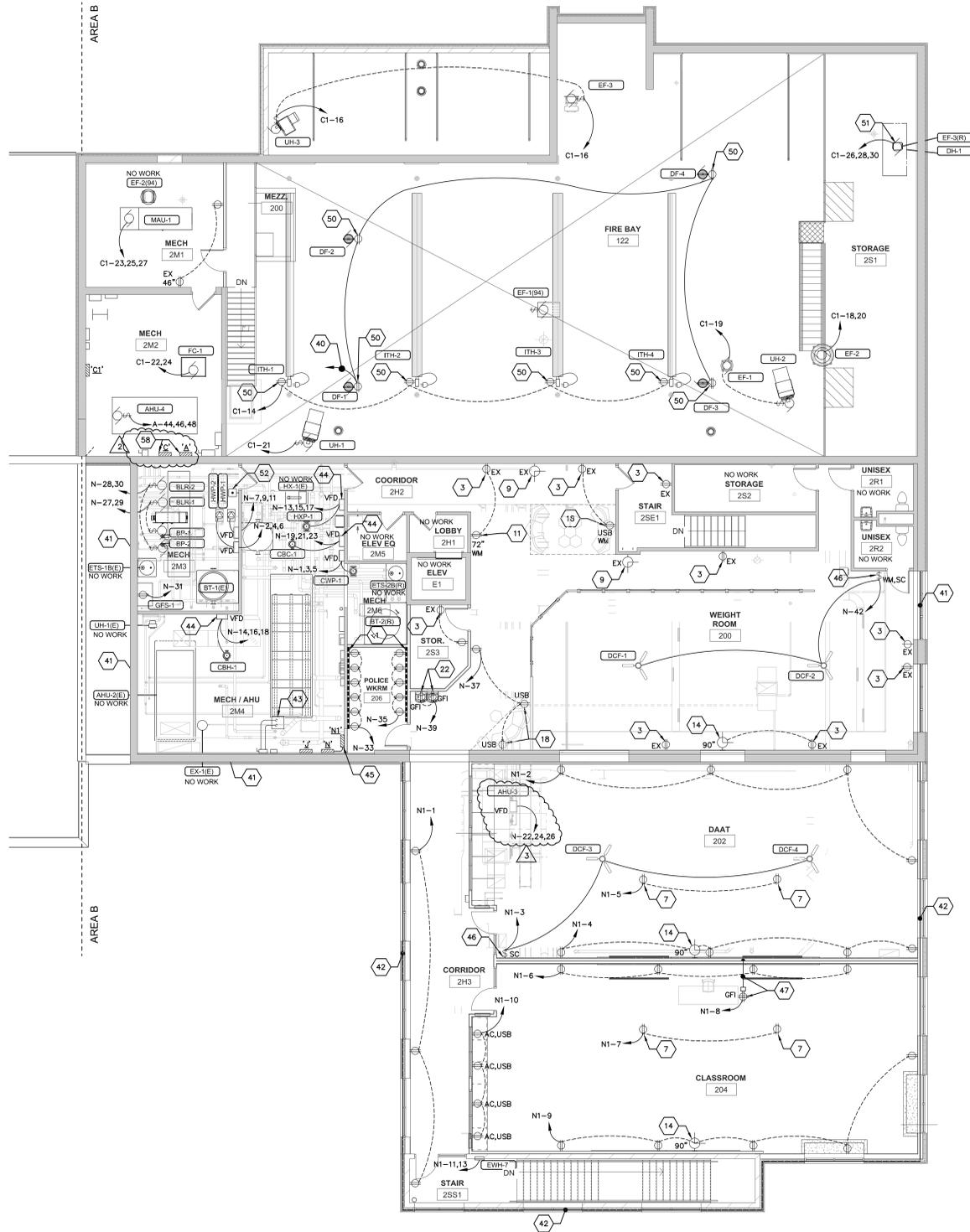
Revisions:

No.	Description	Date
1	ADDENDUM # 2	2-24-21
2	ADDENDUM # 3	2-26-21

Graphic Scale:
VARIES

Last Update:
02/25/21

E203

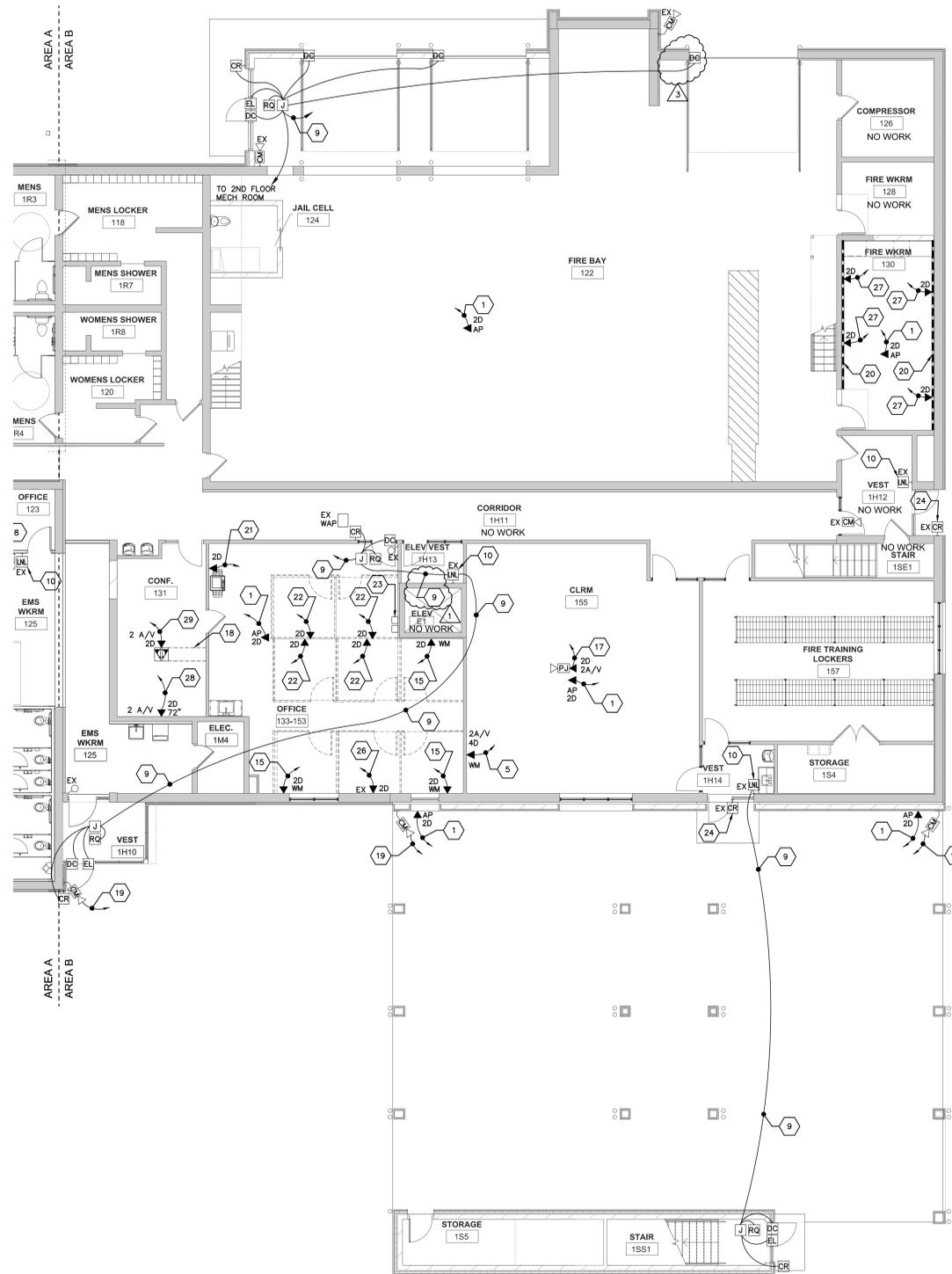


1 SECOND FLOOR POWER PLAN - AREA B
E203 SCALE: 1/8" = 1'-0" 20-07-E-PP02

- KEYED POWER PLAN NOTES:
1. PROVIDE A WIREMOLD 3000 SERIES SURFACE RACEWAY.
 2. PROVIDE A GFI DUPLEX OR DOUBLE/DUPLEX RECEPTACLE AS NOTED AND INSTALL ABOVE COUNTER, REUSE EXISTING JUNCTION BOX AND BRANCH-CIRCUIT WIRING TO THE EXTENT POSSIBLE. RAISE EXISTING JUNCTION BOX TO ABOVE COUNTER AS REQUIRED.
 3. PROVIDE A NEW 20 AMP, 120VAC DUPLEX RECEPTACLE TO REPLACE EXISTING, INSTALL IN EXISTING JUNCTION BOX. REUSE EXISTING BRANCH-CIRCUIT WIRING TO THE EXTENT POSSIBLE. PROVIDE A NEW STAINLESS STEEL COVER PLATE.
 4. PROVIDE A NEW 20 AMP, 120VAC GFI DUPLEX RECEPTACLE TO REPLACE EXISTING, INSTALL IN EXISTING JUNCTION BOX. REUSE EXISTING BRANCH-CIRCUIT WIRING. PROVIDE A NEW STAINLESS STEEL COVER PLATE.
 5. ELECTRICAL CONTRACTOR SHALL INSTALL UP/DOWN SWITCH PROVIDED BY GENERAL CONTRACTOR FOR MOTORIZED VIDEO PROJECTION SCREEN AND MAKE FINAL CONNECTION. COORDINATE WITH GENERAL CONTRACTOR.
 6. MAKE FINAL CONNECTION TO MOTORIZED CEILING MOUNTED VIDEO PROJECTION SCREEN.
 7. PROVIDE A CEILING MOUNTED 20 AMP, 120VAC DUPLEX RECEPTACLE FOR OVERHEAD VIDEO PROJECTOR CORD AND PLUG CONNECTION. COORDINATE EXACT LOCATION WITH WTC IT DEPARTMENT.
 8. PROVIDE A DOUBLE DUPLEX RECEPTACLE IN THIS APPROXIMATE LOCATION FOR TEACHER'S STATION. REWORK EXISTING JUNCTION BOX AS REQUIRED TO ACCOMMODATE DOUBLE DUPLEX RECEPTACLE. REUSE EXISTING JUNCTION BOX, CONDUIT, BRANCH-CIRCUIT WIRING, ETC. TO THE EXTENT POSSIBLE.
 9. EXISTING CLOCK TO REMAIN AS IS.
 10. PROVIDE A DUPLEX RECEPTACLE IN THIS LOCATION FOR AMBULANCE SIMULATOR CORD AND PLUG CONNECTION. FISH INTO EXISTING GYP BOARD TYPE WALL CONSTRUCTION. PROVIDE A DEDICATED 20 AMP, 120VAC BRANCH CIRCUIT.
 11. PROVIDE A DUPLEX RECEPTACLE FOR WALL MOUNTED MONITOR. COORDINATE EXACT LOCATION WITH WTC IT DEPARTMENT. FISH INTO EXISTING GYP BOARD TYPE WALL CONSTRUCTION OR PROVIDE SURFACE WIREMOLD 500 IF ALLOWED BY WTC FACILITY MAINTENANCE DEPARTMENT. REUSE/EXTEND EXISTING BRANCH-CIRCUIT WIRING IN THIS ROOM TO THE EXTENT POSSIBLE.
 12. REUSE EXISTING BRANCH-CIRCUIT WIRING TO ENERGIZE NEW DUPLEX RECEPTABLES FED FROM EXISTING PANELBOARD 'M' LOCATED IN MECHANICAL ROOM 1M1 TO THE EXTENT POSSIBLE FOR THIS AREA. PROVIDE ADDITIONAL 20 AMP, 120VAC BRANCH-CIRCUITS AS REQUIRED PER NEC CODE.
 13. BRANCH-CIRCUIT WIRING TO ENERGIZE NEW DUPLEX RECEPTABLES, ETC. SHALL BE FED FROM PANELBOARD 'D' LOCATED IN UTILITY ROOM 1M3 FOR THIS AREA. PROVIDE BRANCH-CIRCUITS AS NOTED.
 14. ELECTRICAL CONTRACTOR SHALL INSTALL A WTC 'STANDARDIZED' LATHEM AIRTIME CLOCK AND BACKBOX AT THIS LOCATION PROVIDED BY WTC FACILITY MAINTENANCE DEPARTMENT (OWNER). INSTALL A LATHEM AIRTIME BACKBOX WITH 120VAC RECEPTACLE PROVIDED BY OWNER. INSTALL A 120VAC LATHEM AIRTIME WIRELESS CLOCK PROVIDED BY OWNER. PROVIDE A 120VAC BRANCH-CIRCUIT WIRING AND MAKE FINAL CONNECTION AS REQUIRED.
 15. PROVIDE A DOUBLE DUPLEX RECEPTACLE FOR NEW A/V EQUIPMENT RACK. COORDINATE WITH WTC IT DEPARTMENT. PROVIDE A 20 AMP, 120VAC BRANCH-CIRCUIT TO PANELBOARD 'X'.
 16. REUSE EXISTING BRANCH-CIRCUIT WIRING TO ENERGIZE NEW DUPLEX RECEPTABLES FED FROM EXISTING PANELBOARD 'Y' LOCATED IN CUSTODIAL ROOM 1C1 TO THE EXTENT POSSIBLE FOR THIS AREA. PROVIDE ADDITIONAL 20 AMP, 120VAC BRANCH-CIRCUITS AS REQUIRED PER NEC CODE.
 17. PROVIDE A 20 AMP, BRANCH-CIRCUIT TO THE NEAREST AVAILABLE PANELBOARD SERVING THIS AREA.
 18. PROVIDE A COMBINATION DUPLEX RECEPTACLE/USB CHARGER.
 19. PROVIDE A DUPLEX RECEPTACLE FOR MICROWAVE OVERHEAD. LOCATE RECEPTACLE AS DIRECTED BY WTC FACILITY MAINTENANCE DEPARTMENT. RECEPTACLE SHALL BE LOCATED FOR EASY ACCESS TO CORD AND PLUG CONNECTION.
 20. PROVIDE A DUPLEX RECEPTACLE FOR REFRIGERATOR. REUSE EXISTING JUNCTION BOX TO THE EXTENT POSSIBLE. RAISE EXISTING JUNCTION BOX IF REQUIRED.
 21. PROVIDE A DUPLEX RECEPTACLE FOR VENDING MACHINE. FEED BRANCH-CIRCUIT FROM A GFI CIRCUIT BREAKER FOR EASY ACCESS TO RESET GFI PROTECTION.
 22. INSTALL GFI RECEPTACLE FOR ELECTRIC WATER COOLER 'OUTSIDE' OF COOLER FOR EASY ACCESS TO RESET GFI PROTECTION.
 23. ELECTRICAL CONTRACTOR SHALL INSTALL 80VA TYPE OF TRANSFORMER FOR PLUMBING VALVE CONTROL. COORDINATE WITH PLUMBING CONTRACTOR. THIS WORK SHALL BE AN 'ADD' ALTERNATE BID. SEE BID FORMS.
 24. PROVIDE A SINGLE-POLE SWITCH TO CONTROL AUTOMATIC FLUSH VALVE TRANSFORMERS. CLEARLY LABEL AS DIRECTED BY WTC FACILITY MAINTENANCE DEPARTMENT.
 25. INSTALL A NEW 225 AMP, 120/208VAC, 3-PHASE, 4-WIRE, 42 SPACE, SQUARE 'D' PANELBOARD 'D' IN THIS ROOM. PROVIDE DOUBLE LUGS TO SUB-FEED REINSTALLED EXISTING PANELBOARD 'D'.
 26. REINSTALL EXISTING PANELBOARD 'D' IN THIS LOCATION FEED FROM NEW PANELBOARD 'D' WITH DOUBLE SUB-FEED LUGS.
 27. PROVIDE A DUPLEX RECEPTACLE FOR EXISTING RELOCATED SUPPLY ALARM CORD AND PLUG CONNECTION. REFER TO PHOTO #35/E400.
 28. REUSE EXISTING BRANCH-CIRCUIT WIRING TO ENERGIZE NEW DUPLEX RECEPTABLES FED FROM EXISTING PANELBOARD 'X' LOCATED IN MEZZANINE MECHANICAL ROOM 2M2 TO THE EXTENT POSSIBLE FOR THIS AREA. PROVIDE ADDITIONAL 20 AMP, 120VAC BRANCH-CIRCUITS AS REQUIRED PER NEC CODE.
 29. REUSE EXISTING BRANCH-CIRCUIT WIRING TO ENERGIZE NEW DUPLEX RECEPTABLES AND MOTORS/EQUIPMENT FED FROM EXISTING PANELBOARDS 'A', 'C', 'C1' LOCATED IN MEZZANINE MECHANICAL ROOM 2M2 TO THE EXTENT POSSIBLE FOR THIS AREA. ALSO REUSE EXISTING BRANCH-CIRCUIT WIRING FED FROM EXISTING PANELBOARD 'F' LOCATED IN ELECTRICAL ROOM 1M4. PROVIDE ADDITIONAL BRANCH-CIRCUITS AS REQUIRED PER NEC CODE FROM THESE PANELBOARDS.
 30. REUSE EXISTING BRANCH-CIRCUITS FED FROM EXISTING PANELBOARDS 'F' & 'G' LOCATED IN ELECTRICAL ROOM 1M4 TO THE EXTENT POSSIBLE FOR THIS AREA. PROVIDE ADDITIONAL BRANCH-CIRCUITS AS REQUIRED PER NEC CODE. IN ADDITION, NEW PANELBOARD 'N' LOCATED IN EMS WORK ROOM #125 IS AVAILABLE FOR REMODEL WORK.
 31. PROVIDE FOUR (4) 20 AMP, 120VAC BRANCH-CIRCUITS TO PANELBOARDS 'F' OR 'G' TO FEED MODULAR FURNITURE. COORDINATE WITH WTC FACILITY MAINTENANCE DEPARTMENT.
 32. PROVIDE A JUNCTION BOX IN THIS APPROXIMATE LOCATION TO FEED MODULAR FURNITURE. MAKE DIRECT CONNECTION WITH LIQUID TIGHT FLEXIBLE METAL CONDUIT. COORDINATE WITH WTC FACILITY MAINTENANCE DEPARTMENT.
 33. PROVIDE A 30 AMP, 120/208VAC, SINGLE-PHASE 'DRYER' RECEPTACLE FOR STACKED WASHER/DRYER.
 34. INSTALL A SPEED CONTROL SWITCH PROVIDED BY HVAC CONTRACTOR TO CONTROL CEILING DESTRATIFICATION FANS DFC-1, DFC-2, DFC-3 AND DFC-4. PROVIDE A 20 AMP, 120VAC BRANCH-CIRCUIT TO EITHER PANELBOARD 'A', 'C', 'C1', 'F' OR 'G'. ELECTRICAL CONTRACTOR SHALL CHOOSE BEST PANELBOARD TO USE.
 35. INSTALL A DUPLEX RECEPTACLE FOR ICE MACHINE. PROVIDE A 20 AMP, 120VAC BRANCH-CIRCUIT TO EITHER PANELBOARD 'A', 'C', 'C1', 'F' OR 'G'. ELECTRICAL CONTRACTOR SHALL CHOOSE BEST PANELBOARD TO USE.
 36. PROVIDE A 20 AMP, 120VAC BRANCH-CIRCUIT TO PANELBOARD 'A', 'C', OR 'C1' LOCATED ON MEZZANINE MECHANICAL ROOM 2M2.
 37. REUSE EXISTING BRANCH-CIRCUIT WIRING FROM PREVIOUSLY REMOVED OVERHEAD DOORS. FEED NEW OVERHEAD DOORS IN NEW ADDITION IF COMPATIBLE. FIELD VERIFY VOLTAGE AMPERAGE AVAILABLE. OTHERWISE CONNECT OVERHEAD DOORS TO PANELBOARD 'A', 'C', OR 'C1' LOCATED ON MEZZANINE MECHANICAL ROOM 2M2.
 38. PROVIDE A 20 AMP, 208VAC BRANCH-CIRCUIT TO PANELBOARD 'A', 'C', OR 'C1' LOCATED ON MEZZANINE MECHANICAL ROOM 2M2.
 39. INSTALL EXISTING WEATHER-PROOF COVER PLATES PREVIOUSLY REMOVED FROM FITNESS ROOM #105 (REFER TO REMOVAL SHEET E202) IN THIS LOCATION. REFER TO PHOTO #24/E401.
 40. TO SPEED CONTROL SWITCH, REFER TO SHEET E202.
 41. REUSE EXISTING BRANCH-CIRCUIT WIRING TO ENERGIZE NEW DUPLEX RECEPTABLES AND MOTORS/EQUIPMENT FED FROM EXISTING PANELBOARD 'N' LOCATED IN MECHANICAL ROOM 2M4 TO THE EXTENT POSSIBLE FOR THIS AREA. PROVIDE ADDITIONAL BRANCH-CIRCUITS AS REQUIRED PER NEC CODE FROM THIS PANELBOARD.
 42. PROVIDE NEW BRANCH-CIRCUIT WIRING TO ENERGIZE NEW DUPLEX RECEPTABLES AND MOTORS/EQUIPMENT FED FROM PANELBOARD 'N1' LOCATED IN MECHANICAL ROOM 2M4 FOR THIS AREA. PROVIDE ADDITIONAL BRANCH-CIRCUITS AS REQUIRED PER NEC CODE FROM THIS PANELBOARD.
 43. IT SHALL BE REQUIRED TO DISCONNECT THE 800 AMP, 208VAC, 3-PHASE, MULTI-STACK CHILLET FOR THE MECHANICAL CONTRACTOR TO INSTALL A NEW DRIP PAN UNDERNEATH. RECONNECT AFTER NEW DRIP PAN IS INSTALLED. COORDINATE THOROUGHLY WITH MECHANICAL CONTRACTOR.
 44. REUSE EXISTING BRANCH-CIRCUIT AT THIS LOCATION TO FEED NEW MOTOR/EQUIPMENT.
 45. PROVIDE A NEW SQUARE 'D', 125 AMP, MAIN LUG ONLY, 42 SPACE, 208VAC, 3-PHASE, 4-WIRE SUB-PANELBOARD IN THIS APPROXIMATE LOCATION. FEED FROM PANELBOARD 'N' WITH A 100'S CIRCUIT BREAKER. LABEL PANELBOARD 'N1'.
 46. INSTALL A SPEED CONTROL SWITCH PROVIDED BY HVAC CONTRACTOR TO CONTROL CEILING DESTRATIFICATION FANS DFC-1, DFC-2, DFC-3 AND DFC-4.
 47. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A 'CONNECT TRAC' FLOOR SYSTEM. PROVIDE SURFACE MOUNTED COMBINATION POWER AND LOW VOLTAGE MODULES AND SURFACE RACEWAY. PROVIDE MODULES WITH COMBINATION DUPLEX RECEPTABLES AND DATA JACKS AS NOTED ON DRAWINGS AND AS REQUIRED BY WTC. CONTACT A CONTRACTOR SALES REPRESENTATIVE FOR MODEL NUMBERS, ETC. THE INTENT IS PROVIDE SURFACE MOUNT CONNECTION ON EXISTING AND/OR NEW CONCRETE FLOOR TO PROVIDE POWER AND LOW VOLTAGE CABLES BETWEEN THE WALL TO A FLOOR MOUNTED COMBINATION POWER/LOW VOLTAGE MODULES.
 48. DISCONNECT, REMOVE AND DISPOSE OF EXISTING 225 AMP, 120/208VAC, 3-PHASE, 42 SPACE, MAIN-LUG ONLY 'GF' PANELBOARD AND REPLACE WITH A 225 AMP, 120/208VAC, 3-PHASE, 42 SPACE, MAIN-LUG ONLY 'GF' PANELBOARD. REFER TO PANELBOARD SCHEDULE FOR EXISTING CIRCUIT BREAKER INFORMATION.
 49. PROVIDE A NEW 225 AMP, 120/208VAC, 3-PHASE, 4-WIRE, 42 SPACE, MAIN-LUG ONLY SQUARE 'D' PANELBOARD 'F' FED FROM 'MDP2' DISTRIBUTION PANELBOARD. USE AN EXISTING 200'S CIRCUIT BREAKER IN 'MDP2' TO ENERGIZE NEW PANELBOARD.
 50. PROVIDE A CEILING MOUNTED DUPLEX RECEPTACLE TO MATCH CORD AND PLUG CONNECTION OF MOTOR/EQUIPMENT.
 51. IF 3-PHASE BEING RELOCATED, REUSE EXISTING BRANCH-CIRCUIT FROM PREVIOUS LOCATION AND EXTEND TO RELOCATED POSITION.
 52. PROVIDE AN EMERGENCY MUSHROOM TYPE SHUT-OFF SWITCH TO DE-ENERGIZE ALL EXISTING BOILERS AND BOILER PUMPS IN THIS ROOM. CONNECT TO SHUNT-TRIP CIRCUIT BREAKERS IN PANELBOARD 'N'. PROVIDE A NEW SHUNT-TRIP CIRCUIT BREAKER IN EXISTING PANELBOARD 'F' IF REQUIRED FOR EXISTING BOILERS TO REMAIN. FIELD VERIFY. COORDINATE WITH HVAC CONTRACTOR.
 53. APPROXIMATE LOCATION OF PREVIOUSLY REMOVED PANELBOARD 'D'. PROVIDE A JUNCTION BOX ABOVE SUSPENDED CEILING TO INTERRUPT 200 AMP FEEDER. EXTEND EXISTING 200 AMP FEEDER TO RELOCATED PANELBOARD 'D' IN UTILITY ROOM 1M3. REFER TO ELECTRIC RISER DIAGRAM 2/E201.
 54. EXTEND EXISTING 200 AMP FEEDER TO RELOCATED PANELBOARD 'D' AS NOTED.
 55. ELECTRICAL CONTRACTOR SHALL INSTALL AND MAKE FINAL 120VAC CONNECTION TO A HILL-ROM HOSPITAL HEAD BOARD PROVIDED BY WTC (OWNER). REFER TO PHOTO #1/E201.
 56. ELECTRICAL CONTRACTOR SHALL INSTALL AND MAKE FINAL 120VAC CONNECTION TO A ELECTRIC HAND DRYER PROVIDED BY WTC (OWNER).
 57. ELECTRICAL CONTRACTOR SHALL DISCONNECT EXISTING MOTORIZED GARAGE DOOR FOR REMOVAL AND REPLACEMENT BY OTHERS. RECONNECT NEW REPLACED MOTORIZED GARAGE DOOR AS REQUIRED. REUSE EXISTING BRANCH-CIRCUIT WIRING, DISCONNECT, CONDUIT, JUNCTION BOXES, ETC. TO THE EXTENT POSSIBLE.
 58. ELECTRICAL CONTRACTOR SHALL DISCONNECT, REMOVE AND DISPOSE OF EXISTING 225 AMP, 120/208VAC, 3-PHASE, 4-WIRE GENERAL ELECTRIC PANELBOARDS 'A' & 'C' AND REPLACE WITH NEW SQUARE 'D' PANELBOARDS AS NOTED ON PARTIAL ELECTRIC RISER DIAGRAM 2/E201.



Consultant:



- GENERAL LOW VOLTAGE NOTES:**
- A. COLOR CODING SHALL BE AS FOLLOWS:
1. NETWORKING (DATA) - ORANGE DATA JACKS WITH BLUE CAT6A CABLES.
 2. IP PHONE - ORANGE DATA JACKS WITH BLUE CAT6A CABLES.
 3. AUDIO/VIDEO (A/V) - GREEN DATA JACKS WITH GREEN CAT6A CABLE.
 4. SECURITY CAMERAS - WHITE JACKS WITH WHITE CAT6A CABLE.
 5. ELECTRONIC DOOR ACCESS SYSTEM - YELLOW MULTI-ELEMENT SMART CABLE.
 6. FAX/ANALOG - PURPLE JACKS WITH PURPLE CAT6A CABLES.
 7. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE 1" HOODS AND CONDUIT SLEEVES THROUGH WALLS FOR LOW VOLTAGE CABLE ROUTING AS REQUIRED.
- B. ALL LOW VOLTAGE WIRING SHALL BE "PLENUM" RATED.
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 1" HOOD" TYPE LOW VOLTAGE CABLE WIRING SUPPORT ON 4'-0" CENTERS ABOVE SUSPENDED ACUSTIC CEILING BETWEEN CONDUIT WALL STUBS AND CABLE TRAY, ETC. ALL LOW VOLTAGE WIRING SHALL BE INDEPENDENTLY SUPPORTED SEPARATE FROM GRID TYPE CEILING, NO JOCKETS.
- D. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL LOW VOLTAGE WIRING, DATA JACKS, ETC. FOR A COMPLETE SYSTEM FOR THIS PROJECT.
- KEYED LOW VOLTAGE PLAN NOTES:**
1. APPROXIMATE LOCATION OF NEW WIRELESS ACCESS POINT PROVIDED AND INSTALLED BY WTC IT DEPARTMENT. ELECTRICAL CONTRACTOR SHALL PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN WIRELESS ACCESS POINT AND IT NETWORK EQUIPMENT RACK LOCATED IN DATA ROOM #111 OR #202. PROVIDE JUNCTION BOXES AS REQUIRED IN CEILING OR WALL COORDINATE WITH WTC IT DEPARTMENT.
 2. APPROXIMATE LOCATION OF NEW WIRELESS ACCESS POINT PROVIDED AND INSTALLED BY WTC IT DEPARTMENT. ELECTRICAL CONTRACTOR SHALL PROVIDE FOUR (4) CAT6A CABLES BETWEEN WIRELESS ACCESS POINT AND IT NETWORK EQUIPMENT RACK LOCATED IN DATA ROOM #111. PROVIDE JUNCTION BOXES AS REQUIRED IN CEILING OR WALL COORDINATE WITH WTC IT DEPARTMENT.
 3. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FOUR (4) PORT DATA JACK. PROVIDE FOUR (4) NETWORK CAT6A CABLES BETWEEN FOUR PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN DATA ROOM #111 OR #202. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB TWO (2) "EMT CONDUITS TO 7' HOODS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN.
 4. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TWO (2) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN TWO PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN DATA ROOM #111 OR #202. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB ONE (1) "EMT CONDUIT TO 7' HOODS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN.
 5. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A SIX-PORT COMBINATION DATA/A/V JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER'S STATION. PROVIDE FOUR (4) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM #111 OR #202. PROVIDE TWO (2) SHIELDED CAT6 A/V CABLES BETWEEN TEACHER'S STATION DATA/A/V JACKS AND OVERHEAD PROJECTOR JUNCTION BOX. PROVIDE SURFACE WIREMOLD JUNCTION BOX AND RACEWAY SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
 6. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A SIX-PORT COMBINATION DATA/A/V JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER'S STATION. PROVIDE FOUR (4) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM #111. PROVIDE TWO (2) SHIELDED CAT6 A/V CABLES BETWEEN TEACHER'S STATION DATA/A/V JACKS AND A/V EQUIPMENT RACK LOCATED IN IT ROOM #111. PROVIDE A 4"x4"x2-1/2" JUNCTION BOX WITH A DOUBLE-GANG MUDRING AND TWO (2) 1" EMT CONDUITS AND STUB ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
 7. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FOUR-PORT COMBINATION DATA/A/V JACKS AT THIS APPROXIMATE LOCATION FOR OVERHEAD PROJECTOR. PROVIDE TWO (2) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM #111. PROVIDE TWO (2) SHIELDED CAT6 A/V CABLES BETWEEN OVERHEAD PROJECTOR JUNCTION BOX AND A/V EQUIPMENT RACK LOCATED IN IT ROOM #111. PROVIDE A SINGLE GANG WIREMOLD 1700 SURFACE JUNCTION BOX AS REQUIRED FOR DATA/A/V WIRING.
 8. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TWO (2) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN TWO-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN DATA ROOM #111 OR #202. PROVIDE TWO (2) SHIELDED CAT6 A/V CABLES BETWEEN OVERHEAD PROJECTOR JUNCTION BOX AND A/V EQUIPMENT RACK LOCATED IN DATA ROOM #111 OR #202. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB ONE (1) "EMT CONDUIT TO 7' HOODS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN. REFER TO DETAIL #E301.
 9. ELECTRICAL CONTRACTOR SHALL PROVIDE A "SMART CABLE" HOMERUN TO EXISTING ELECTRONIC DOOR ACCESS CONTROLLERS AS NOTED ON DRAWINGS. SMART CABLE SHALL BE BEZEL, MODEL #808A1 OR EQUAL, 16 CONDUCTOR, 4 ELEMENT, ACCESS CONTROL CABLE, 18-04 + 22-3P + 22-02 + 22-04 PLENUM YELLOW COLOR. REFER TO ELECTRONIC DOOR ACCESS CONTROL DETAIL #E301.
 10. LOCATION OF EXISTING ELECTRONIC DOOR ACCESS CONTROL POWER SUPPLY/CONTROLLER.
 11. LOCATION OF EXISTING IT NETWORK EQUIPMENT RACK.
 12. ELECTRICAL CONTRACTOR SHALL PROVIDE AN A/V WALL-MOUNTED EQUIPMENT RACK. COORDINATE WITH WTC IT DEPARTMENT. REFER TO DETAIL #E301.
 13. ELECTRICAL CONTRACTOR SHALL PROVIDE A "SMART CABLE" HOMERUN TO EXISTING ELECTRONIC DOOR ACCESS CONTROL PANEL LOCATED IN ROOM #204. SMART CABLE SHALL BE BEZEL, MODEL #808A1 OR EQUAL, 16 CONDUCTOR, 4 ELEMENT, ACCESS CONTROL CABLE, 18-04 + 22-3P + 22-02 + 22-04 PLENUM YELLOW COLOR. REFER TO ELECTRONIC DOOR ACCESS CONTROL DETAIL #E301.
 14. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TWO (2) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN TWO-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN DATA ROOM #111 OR #202. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB ONE (1) "EMT CONDUIT TO 7' HOODS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN. REFER TO DETAIL #E301.
 15. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TWO (2) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN TWO-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN DATA ROOM #111 OR #202. PROVIDE A SINGLE GANG WIREMOLD 1700 SURFACE JUNCTION BOX AND SURFACE RACEWAY. STUB 1/2" HOODS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN.
 16. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AN EIGHT-PORT COMBINATION DATA/A/V JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER'S/PRESENTER STATION. PROVIDE FOUR (4) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM #202. PROVIDE FOUR (4) SHIELDED CAT6 A/V CABLES BETWEEN TEACHER'S/PRESENTER STATION DATA/A/V JACKS AND OVERHEAD PROJECTORS. INSTALL TWO (2) SHIELDED CAT6A CABLES TO EACH OVERHEAD PROJECTOR. PROVIDE A TWO-GANG MAGNIFY DEEP JUNCTION BOX WITH A DOUBLE-GANG MUDRING AND TWO (2) 1-1/4" EMT CONDUITS AND STUB ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
 17. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FOUR-PORT COMBINATION DATA/A/V JACKS AT THIS APPROXIMATE LOCATION FOR OVERHEAD PROJECTOR. PROVIDE TWO (2) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM #111 OR #202. PROVIDE TWO (2) SHIELDED CAT6 A/V CABLES BETWEEN OVERHEAD PROJECTOR JUNCTION BOX AND TEACHER'S/PRESENTER'S DATA/A/V JACKS. PROVIDE A DOUBLE GANG JUNCTION BOX AS REQUIRED FOR DATA/A/V WIRING.
 18. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A "CONNECT TRAC" FLOOR SYSTEM. PROVIDE SURFACE MOUNTED COMBINATION POWER AND LOW VOLTAGE MODULES AND SURFACE RACEWAY. PROVIDE MODULES WITH COMBINATION DUPLEX RECEPTACLES AND DATA JACKS AS NOTED ON DRAWINGS AND AS REQUIRED BY WTC. CONTACT A CONNECTRAC SALES REPRESENTATIVE FOR MODEL NUMBERS, ETC. THE INTENT IS PROVIDE SURFACE MOUNT CONNECTRAC ON EXISTING CONCRETE FLOOR TO PROVIDE POWER AND LOW VOLTAGE CABLES BETWEEN THE WALL TO A FLOOR MOUNTED COMBINATION POWER/LOW VOLTAGE MODULES.
 19. ELECTRICAL CONTRACTOR SHALL INSTALL A SECURITY IP CCTV CAMERA WITH BACKBOX PROVIDED BY WTC IT DEPARTMENT IN THIS LOCATION. PROVIDE ONE (1) CAT6A CABLE TO IT NETWORK EQUIPMENT RACK LOCATED IN DATA ROOM #111 OR #202. COORDINATE MOUNTING LOCATION AND MOUNTING HEIGHT WITH WTC IT DEPARTMENT.
 20. PROVIDE A COMBINATION POWER/COMMUNICATION WIREMOLD 4000 SERIES SURFACE RACEWAY.
 21. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TWO (2) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN TWO-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN DATA ROOM #111 OR #202. PROVIDE TWO (2) SHIELDED CAT6 A/V CABLES BETWEEN TWO-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN DATA ROOM #111 OR #202. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB ONE (1) "EMT CONDUIT TO 7' HOODS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN.
 22. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TWO (2) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN TWO-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN DATA ROOM #111 OR #202. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN TWO-PORT DATA JACKS INSIDE MODULAR OFFICE FURNITURE. COORDINATE WITH MODULAR OFFICE FURNITURE INSTALLER AND WITH WTC FACILITY DEPARTMENT.
 23. PROVIDE WIREMOLD 3000 SERIES SURFACE RACEWAY FOR ROUTING LOW VOLTAGE WIRING. PROVIDE LIQUID TIGHT TYPE FLEXIBLE CONDUIT BETWEEN WIREMOLD AND OVERHEAD PROJECTOR JUNCTION BOX. PROVIDE LIQUID TIGHT TYPE FLEXIBLE CONDUIT BETWEEN WIREMOLD AND OVERHEAD PROJECTOR JUNCTION BOX.
 24. EXISTING ELECTRONIC DOOR ACCESS CONTROL CABLE READY TO RECONNECT TO A NEW DOOR IS BEHIND AN EXISTING DOOR. REMOVE EXISTING LOW VOLTAGE WIRING AND REINSTALL IN NEW DOOR AS REQUIRED FOR REMODEL WORK.
 25. THE "DOOR ACCESS CONTROL" PANEL SHALL BE INSTALLED ON EXTERIOR PEDESTAL. PROVIDE UNDERGROUND CONDUIT AND LOW VOLTAGE WIRING AS REQUIRED BETWEEN ELECTRONIC DOOR ACCESS CONTROL JUNCTION BOX AND PEDESTAL. COORDINATE WITH WTC PLANT FACILITY DEPARTMENT. REFER TO PHOTO #E301 FOR PEDESTAL EXAMPLE.
 26. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TWO (2) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN TWO-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN DATA ROOM #111 OR #202. PROVIDE TWO (2) SHIELDED CAT6 A/V CABLES BETWEEN TWO-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN DATA ROOM #111 OR #202. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB TWO (2) "EMT CONDUITS TO 7' HOODS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN.
 27. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TWO (2) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN TWO-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN DATA ROOM #111 OR #202. PROVIDE TWO (2) SHIELDED CAT6 A/V CABLES BETWEEN TWO-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN DATA ROOM #111 OR #202. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB TWO (2) "EMT CONDUITS TO 7' HOODS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN.
 28. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FOUR-PORT COMBINATION DATA/A/V JACKS AT THIS APPROXIMATE LOCATION FOR WALL-MOUNT MONITOR. PROVIDE TWO (2) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM #111 OR #202. PROVIDE TWO (2) SHIELDED CAT6 A/V CABLES BETWEEN WALL-MOUNT MONITOR JUNCTION BOX AND TEACHER'S/PRESENTER'S DATA/A/V JACKS. PROVIDE A DOUBLE GANG JUNCTION BOX AS REQUIRED FOR DATA/A/V WIRING.
 29. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FOUR-PORT COMBINATION DATA/A/V JACKS AT THIS APPROXIMATE LOCATION FOR PRESENTER'S STATION. PROVIDE TWO (2) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM #111 OR #202. PROVIDE TWO (2) SHIELDED CAT6 A/V CABLES BETWEEN WALL-MOUNT MONITOR JUNCTION BOX AND PRESENTER'S A/V JACKS. PROVIDE SURFACE MOUNTED FLOOR CONNECTRAC RACEWAY SYSTEM AS REQUIRED FOR DATA/A/V WIRING. COORDINATE WITH WTC IT DEPARTMENT.
 30. PROVIDE 18 GAUGE #6 CONDUCTOR (18/6) STRANDED SHIELDED, GRAY JACKET, EXTERIOR RATED COMMUNICATION CABLE BETWEEN PEDESTAL CORD READER AND CONTROLLER. WEST PEEN, AQUILAUL 186, MODEL #3823 OR EQUAL.
 31. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A SIX (6) PORT DATA JACK. PROVIDE SIX (6) NETWORK CAT6A CABLES BETWEEN SIX PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN DATA ROOM #111 OR #202. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB TWO (2) "EMT CONDUITS TO 7' HOODS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN.

1 FIRST FLOOR LOW VOLTAGE PLAN - AREA B
E302 SCALE: 1/8" = 1'-0"
20-07-E-LV01

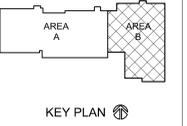
Project Title:
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Project Date:
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Drawn By:
HSR

Key Plan:



Revisions:

No.	Description	Date
1	ADDENDUM # 1	2-15-21
2	ADDENDUM # 2	2-15-21
3	ADDENDUM # 3	2-26-21

Graphic Scale:
VARIES

Last Update:
02/25/21

E302

MOTOR & EQUIPMENT SCHEDULE

EQUIPMENT REFERENCE ID.	EQUIPMENT DESCRIPTION	EQUIPMENT LOCATION			MOTOR OR EQUIPMENT REQUIREMENTS AND CHARACTERISTICS										MOTOR STARTERS				DISCONNECT SWITCHES				CONTROL WIRING BY				REMARKS	
		Room No.	Room Name	Elevation	Motor HP	Equipment Watts	VOLT	PH.	FLA	MCA	MOP	Starter Type	Provided By	Installed By	Starter Size	Disconnect Type	Provided By	Installed By	NEMA Endo.	Fuse Size	Lockable?	MC	EC	N.C.	Conductor Size	Conduit Min. Size		Ground Size
AHU-3	Air Handling Unit - 3	200	Weight Room	Ceiling	5.0	9,900	208	3	27.5	27.5	45.0	VFD	MC	MC	Included	INCLUDED	MC	MC	INCLUDED	INCL	Yes	X		3	6	3/4"	10	1
AHU-4	Air Handling Unit - 4	2M2	Mechanical	Floor	2.5	12,600	208	3	35	35	60	VFD	MC	MC	Included	INCLUDED	MC	MC	INCLUDED	INCL	Yes	X		3	6	3/4"	10	1
BUR-1	Boiler - 1	2M4	Mechanical	Floor		2,496	208	1	12.0	12.0	20	Included	Included	Included	Manual	EC	EC		N/A	Yes	X		2	12	1/2"	12	2, 6	
BUR-2	Boiler - 2	2M4	Mechanical	Floor		2,496	208	1	12.0	12.0	20	Included	Included	Included	Manual	EC	EC		N/A	Yes	X		2	12	1/2"	12	2, 6	
BP-1	Boiler Pump - 1	2M4	Mechanical	Floor		2,960	208	1	22.5	22.5	20	Manual	EC	EC	NA	Manual	EC	EC		N/A	Yes	X		2	12	1/2"	12	2, 6
BP-2	Boiler Pump - 1	2M4	Mechanical	Floor		900	208	1	2.5	15	20	Manual	EC	EC	NA	Manual	EC	EC		N/A	Yes	X		2	12	1/2"	12	2, 6
CB-1	Circulation cooling pump-1	2M4	Mechanical	Floor		3,960	208	3	11.0	20	20	VFD	MC	EC	3.0 HP	w/VFD	MC	EC	1	w/VFD	Yes	X		3	12	1/2"	12	5
CBW-1	Cooling Heating Pump-1	2M4	Mechanical	Floor		2,808	208	3	7.8	15	20	VFD	MC	EC	2.0 HP	w/VFD	MC	EC	1	w/VFD	Yes	X		3	12	1/2"	12	5
CHW-1	Chilled Water Pump	2M4	Mechanical	Floor		9,108	208	3	25.3	50	50	VFD	MC	EC	7.5 HP	w/VFD	MC	EC	1	w/VFD	Yes	X		3	6	3/4"	10	5
DF-1	Destratification Fan - 1	122	Fine Bay	Ceiling		55	120	1	35	15	20.0	NA	NA	NA	NA	Cord and Plug	Incl	Incl	N/A	N/A	N/A	X	2	12	1/2"	12	9, 10	
DF-2	Destratification Fan - 2	122	Fine Bay	Ceiling		55	120	1	35	15	20.0	NA	NA	NA	NA	Cord and Plug	Incl	Incl	N/A	N/A	N/A	X	2	12	1/2"	12	9, 10	
DF-3	Destratification Fan - 3	122	Fine Bay	Ceiling		55	120	1	35	15	20.0	NA	NA	NA	NA	Cord and Plug	Incl	Incl	N/A	N/A	N/A	X	2	12	1/2"	12	9, 10	
DF-4	Destratification Fan - 4	122	Fine Bay	Ceiling		55	120	1	35	15	20.0	NA	NA	NA	NA	Cord and Plug	Incl	Incl	N/A	N/A	N/A	X	2	12	1/2"	12	9, 10	
DF-1	Destratification Ceiling Fan - 1	200	Weight Room	Ceiling		80	120	1	67	15	20.0	NA	NA	NA	Manual Toggle	EC	EC	1	N/A	No	X	2	12	1/2"	12	10		
DF-2	Destratification Ceiling Fan - 2	200	Weight Room	Ceiling		80	120	1	67	15	20.0	NA	NA	NA	Manual Toggle	EC	EC	1	N/A	No	X	2	12	1/2"	12	10		
DF-3	Destratification Ceiling Fan - 3	202	DAAT	Wall		80	120	1	67	15	20.0	NA	NA	NA	Manual Toggle	EC	EC	1	N/A	No	X	2	12	1/2"	12	10		
DF-4	Destratification Ceiling Fan - 4	202	DAAT	Wall		80	120	1	67	15	20.0	NA	NA	NA	Manual Toggle	EC	EC	1	N/A	No	X	2	12	1/2"	12	10		
DH-1	Gas-Fired Duct Heater	251	Storage	Ceiling		1.5	3,800	208	3	5.0	5.0	20.0	NA	NA	NA	Manual Toggle	MC	MC	1	N/A	Yes	X		3	12	1/2"	12	1
EF-1	Exhaust Fan	122	Fine Bay	Roof	1/15	100	120	1	1.0	1.0	20.0	NA	NA	NA	Included	Incl.	Incl.	1	N/A	Yes	X		2	12	1/2"	12	1	
EF-2	Exhaust Fan	122	Fine Bay	Roof	2.0	2,496	208	1	12.0	12.0	20.0	Included	Included	Included	INCLUDED	Incl.	Incl.	1	N/A	Yes	X		2	12	1/2"	12	1	
EF-3	Exhaust Fan		Hose Tower	Roof	1/10	100	120	1	1.0	1.0	20.0	Included	Included	Included	INCLUDED	Incl.	Incl.	1	INCL	Yes	X		2	12	1/2"	12	1	
EF-4	Exhaust Fan	185,186	Toilet room	Roof	1/10	300	120	1	1.0	1.0	20.0	Included	Included	Included	INCLUDED	Incl.	Incl.	1	INCL	Yes	X		2	12	1/2"	12	1	
EF-5	Exhaust Fan	125	Em. Work Rm.	Roof	1/15	300	120	1	1.0	1.0	20.0	Included	Included	Included	INCLUDED	Incl.	Incl.	1	INCL	Yes	X		2	12	1/2"	12	1	
EF-6	Exhaust Fan	183,184	Toilet room	Roof	1/10	300	120	1	1.0	1.0	20.0	Included	Included	Included	INCLUDED	Incl.	Incl.	1	INCL	Yes	X		2	12	1/2"	12	1	
EW-1	Electric Wall Heater	126	Compressor Room	Wall		3,000	208	1	14.4	14.4	20.0	NA	NA	NA	NA	Ckt. Brk.	EC	EC	1	N/A	Yes	X	2	12	1/2"	12	11	
EW-2	Electric Wall Heater	117	Vestibule	Wall		1,500	120	1	12.5	12.5	20.0	NA	NA	NA	NA	Ckt. Brk.	EC	EC	1	N/A	Yes	X	2	12	1/2"	12	11	
EW-3	Electric Wall Heater	185	Mens	Wall		1,500	120	1	12.5	12.5	20.0	NA	NA	NA	NA	Ckt. Brk.	EC	EC	1	N/A	Yes	X	2	12	1/2"	12	11	
EW-4	Electric Wall Heater	119	Vestibule	Wall		1,500	120	1	12.5	12.5	20.0	NA	NA	NA	NA	Ckt. Brk.	EC	EC	1	N/A	Yes	X	2	12	1/2"	12	11	
EW-5	Electric Wall Heater	155	Storage	Wall		3,000	208	1	14.4	14.4	20.0	NA	NA	NA	NA	Ckt. Brk.	EC	EC	1	N/A	Yes	X	2	12	1/2"	12	11	
EW-6	Electric Wall Heater	2551	Stair	Wall		3,000	208	1	14.4	14.4	20.0	NA	NA	NA	NA	Ckt. Brk.	EC	EC	1	N/A	Yes	X	2	12	1/2"	12	11	
EW-7	Electric Wall Heater	2551	Stair	Wall		1,500	120	1	12.5	12.5	20.0	NA	NA	NA	NA	Ckt. Brk.	EC	EC	1	N/A	Yes	X	2	12	1/2"	12	11	
FCL	Fan Coil - 3	2M2	Mechanical	Ceiling	1/3	749	208	1	3.6	3.6	20.0	Included	Included	Included	INCLUDED	Incl.	Incl.	1	N/A	Yes	X		2	12	1/2"	12	1	
GSF-1	Glycol System Feeder Pump	82A	Vestibule	Wall		50	120	1	4.2	4.2	20.0	NA	NA	NA	NA	Cord and Plug	MC	MC	NA	N/A	Yes	X	2	12	1/2"	12	12	
HWP-1	Hot Water Pump - 1	2M4	Mechanical	Floor		6,300	208	3	17.5	17.5	35.0	VFD	MC	EC	5.0 HP	w/VFD	MC	EC	1	w/VFD	Yes	X		3	8	3/4"	10	5
HWP-2	Hot Water Pump - 2	2M4	Mechanical	Floor		6,300	208	3	17.5	17.5	35.0	VFD	MC	EC	5.0 HP	w/VFD	MC	EC	1	w/VFD	Yes	X		3	8	3/4"	10	5
HXP-1	Heat Exchange Pump - 1	2M4	Mechanical	Floor		9,108	208	3	25.3	25.3	50.0	VFD	MC	EC	7.5	w/VFD	MC	EC	1	w/VFD	Yes	X		3	6	3/4"	10	5
ITH-1	Infrared Tube Heater - 1	122	Fine Bay	Ceiling		120	120	1	1.0	1.0	20.0	NA	NA	NA	NA	Cord and Plug	MC	MC	NA	N/A	Yes	X	2	12	1/2"	12	9	
ITH-2	Infrared Tube Heater - 2	122	Fine Bay	Ceiling		120	120	1	1.0	1.0	20.0	NA	NA	NA	NA	Cord and Plug	MC	MC	NA	N/A	Yes	X	2	12	1/2"	12	9	
ITH-3	Infrared Tube Heater - 3	122	Fine Bay	Ceiling		120	120	1	1.0	1.0	20.0	NA	NA	NA	NA	Cord and Plug	MC	MC	NA	N/A	Yes	X	2	12	1/2"	12	9	
ITH-4	Infrared Tube Heater - 4	122	Fine Bay	Ceiling		120	120	1	1.0	1.0	20.0	NA	NA	NA	NA	Cord and Plug	MC	MC	NA	N/A	Yes	X	2	12	1/2"	12	9	
MAU-1	Make Up Unit - 1	2M1	Mechanical	Ceiling	3.0	5,940	208	3	13.9	13.9	20.0	Included	Included	Included	INCLUDED	Incl.	Incl.	1	N/A	Yes	X		3	12	1/2"	12	1	
RDH-1	Room Dehumidifier - 1	157	Locker Room	Ceiling		960	120	1	8.0	8.0	20.0	NA	NA	NA	NA	Cord and Plug	Incl.	Incl.	NA	N/A	Yes	X	2	12	1/2"	12	9	
UH-1	Gas Unit Heater - 1	122	Fine Bay	Ceiling	1/3	864	120	1	7.2	7.2	20.0	NA	NA	NA	Manual	EC	EC	1	N/A	Yes	X		2	12	1/2"	12	6	
UH-2	Gas Unit Heater - 2	122	Fine Bay	Ceiling	1/3	864	120	1	7.2	7.2	20.0	NA	NA	NA	Manual	EC	EC	1	N/A	Yes	X		2	12	1/2"	12	6	
UH-3	Gas Unit Heater - 3	122	Fine Bay	Ceiling	1/4	444	120	1	3.7	3.7	20.0	NA	NA	NA	Manual	EC	EC	1	N/A	Yes	X		2	12	1/2"	12	6	

REMARKS:
 1. Make direct single point connection to unit-mounted disconnect switch and/or VFD motor starter provided as part of the Mechanical Equipment.
 2. Make final connection to motor/equipment with short length of flexible metal conduit for vibration isolation. Liquid-tight, flexible metal conduit for exterior application or wet locations.
 3. Provide a size 0, 208VAC, 3-Phase, Combination Disconnect/Motor Starter as specified. Include H-O-A switch and Green/Red running indicator lights in cover. Provide motor over-load protection as recommended.
 4. Provide and install a 30 amp, 250 Volt, 2-pole, Nema 1, non-fusible disconnect switch with equipment grounding kit for this unit. Install disconnect on wall in close proximity to unit and make all line voltage connections.
 5. Electrical Contractor shall install and make final connection to VFD provided by HVAC Contractor.
 6. Provide and install a 20 amp, SPST or DPST, manual motor control switch without thermal overload protection. Motor control switch shall be mounted in a NEMA 1 or NEMA 3R enclosure, as required, Mount disconnect on structure in close proximity to motor or equipment.
 7. Provide and install a 20 amp, DPST, "Motor-rated" Non-Fused toggle switch mounted in surface mounted junction box adjacent to equipment.
 8. Provide and install a 20 amp, SPST, "Motor-rated" toggle switch mounted in a flexible metal gang outlet box within the fan motor dome.
 9. Provide a ceiling mounted duplex receptacle to match cord and plug included with motor.
 10. Electrical Contractor shall install speed control switch provided by HVAC Contractor.
 11. Make direct single point connection to electric wall heater, ckt. Brk. Shall serve as disconnect. Please note a 24VAC relay included with heater for connection to BAS. Coordinate with HVAC Contractor.
 12. Provide a 20 Amp, 120VAC, duplex receptacle for cord and plug disconnect.

FUSES:
 1. All fuses - both size and type - shall be verified with the equipment being supplied.
 2. For Bidding purposes, assume maximum fuse size based on disconnect size.
 3. For Bidding purposes, assume Type RK1 fuses for all applications.

LIGHTING FIXTURE SCHEDULE

TYPE	QTY	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	VOLT	F	S	T	MOUNTING	LAMP/LIGHT SOURCE	WATT/	PLUGS	REMARKS
ALB		LED OUTFITTERS	30" RAZOR LIGHTBAR TR	AMBULANCE LIGHT BAR	120/12				X	LED	64	1	
AD3		LITHONIA	2BLT4 30L ADP GZ10 LP840	2X4' LED LAYIN TROFFER, CURVED RIBBED CENTER BASKET, UNIVERSAL VOLTAGE, DIMMING	120/277	X			X	4000K 3000	LED 0-10VDC DIMMING	32	1
AD4		LITHONIA	2BLT4 40L ADP GZ10 LP840	2X4' LED LAYIN TROFFER, CURVED RIBBED CENTER BASKET, UNIVERSAL VOLTAGE, DIMMING	120/277	X			X	4000K 4063	LED 0-10VDC DIMMING	32	1
AD4E		LITHONIA	2BLT4 40L ADP GZ10 LP840 EL14	2X4' LED LAYIN TROFFER, CURVED RIBBED CENTER BASKET, UNIVERSAL VOLTAGE, DIMMING (SAME AS AD4 WITH 1400 LUMEN EMERGENCY BATTERY BACKUP)	120/277	X			X	4000K 4063	LED 0-10VDC DIMMING	32	1
AD6		LITHONIA	2BLT4 60L ADP GZ10 LP840	2X4' LED LAYIN TROFFER, CURVED RIBBED CENTER BASKET, UNIVERSAL VOLTAGE, DIMMING									

Panel- 'A', NEW SQUARE 'D', 225 AMP., 120/208VAC, MAIN BRK.									
Space No.	Serves	C/B Size/Type	Load (KVA)	Load (KVA)	C/B Size/Type	Serves	Space No.		
1	XSTG	201(N)	XSTG	XSTG	201(N)	XSTG	2		
3	XSTG	201(N)	XSTG	XSTG	201(N)	XSTG	4		
5	XSTG	202(N)	XSTG	XSTG	202(N)	XSTG	6		
7	-	202(N)	XSTG	XSTG	202(N)	-	8		
9	XSTG	202(N)	XSTG	XSTG	201(N)	XSTG	10		
11	-	202(N)	XSTG	XSTG	201(N)	XSTG	12		
13	XSTG	202(N)	XSTG	XSTG	201(N)	XSTG	14		
15	-	202(N)	XSTG	XSTG	201(N)	XSTG	16		
17	XSTG	201(N)	XSTG	XSTG	201(N)	XSTG	18		
19	XSTG	201(N)	XSTG	XSTG	201(N)	XSTG	20		
21	XSTG	201(N)	XSTG	XSTG	201(N)	XSTG	22		
23	XSTG	201(N)	XSTG	XSTG	201(N)	XSTG	24		
25	XSTG	201(N)	XSTG	XSTG	201(N)	XSTG	26		
27	XSTG	201(N)	XSTG	XSTG	201(N)	XSTG	28		
29	XSTG	201(N)	XSTG	XSTG	201(N)	XSTG-GFI BRK	30		
31	XSTG	201(N)	XSTG	XSTG	201(N)	XSTG-GFI BRK	32		
33	XSTG	201(N)	XSTG	XSTG	201(N)	XSTG-GFI BRK	34		
35	XSTG	201(N)	XSTG	XSTG	201(N)	XSTG-GFI BRK	36		
37	XSTG	303(N)	XSTG	XSTG	201(N)	XSTG	38		
39	XSTG	303(N)	XSTG	XSTG	201(N)	XSTG	40		
41	XSTG	303(N)	XSTG	XSTG	201(N)	XSTG	42		
43	SPARE	201(N)	4.20	603(N)		MOTOR (AHU-4)	44		
45	SPARE	201(N)	4.20	603(N)		-	46		
47	SPARE	201(N)	4.20	603(N)		-	48		
49	SPARE	201(N)		201(N)		SPARE	50		
51	SPARE	201(N)		201(N)		SPARE	52		

LIGHTING (KVA):	
RECEPTACLES (KVA):	
MOTOREQUIPMENT (KVA):	
TOTAL (KVA):	
TOTAL AMP. : (DIVERSITY FACTOR) X 1.25 =	

Notes:
1 Provide a 52 space replacement panelboard
2 Provide a Main Breaker to match Panelboard 'A' replacement.

Panel- 'C', NEW SQUARE 'D', 225 AMP., 120/208VAC, MAIN BRK.									
Space No.	Serves	C/B Size/Type	Load (KVA)	Load (KVA)	C/B Size/Type	Serves	Space No.		
1	XSTG	253(N)	XSTG	XSTG	303(N)	XSTG	2		
3	-	253(N)	XSTG	XSTG	303(N)	-	4		
5	-	253(N)	XSTG	XSTG	303(N)	-	6		
7	XSTG	201(N)	XSTG	XSTG	201(N)	XSTG	8		
9	XSTG	201(N)	XSTG	XSTG	201(N)	XSTG	10		
11	XSTG	201(N)	XSTG	XSTG	201(N)	XSTG	12		
13	XSTG	201(N)	XSTG	XSTG	203(N)	XSTG	14		
15	XSTG	302(N)	XSTG	XSTG	203(N)	-	16		
17	-	302(N)	XSTG	XSTG	203(N)	-	18		
19	XSTG	302(N)	XSTG	XSTG	201(N)	XSTG	20		
21	-	302(N)	XSTG	XSTG	201(N)	XSTG	22		
23	XSTG	302(N)	XSTG	XSTG	603(N)	XSTG	24		
25	-	302(N)	XSTG	XSTG	603(N)	-	26		
27	XSTG	302(N)	XSTG	XSTG	603(N)	-	28		
29	-	302(N)	XSTG	XSTG	303(N)	XSTG	30		
31	XSTG	202(N)	XSTG	XSTG	303(N)	-	32		
33	-	202(N)	XSTG	XSTG	303(N)	-	34		
35	XSTG	201(N)	XSTG	XSTG	201(N)	XSTG	36		
37	XSTG	201(N)	XSTG	XSTG	303(N)	XSTG	38		
39	XSTG	201(N)	XSTG	XSTG	303(N)	-	40		
41	XSTG	201(N)	XSTG	XSTG	303(N)	-	42		
43	SPARE	201(N)		201(N)		SPARE	44		
45	SPARE	201(N)		201(N)		SPARE	46		
47	SPARE	201(N)		201(N)		SPARE	48		
49	SPARE	201(N)		201(N)		SPARE	50		
51	SPARE	201(N)		201(N)		SPARE	52		

LIGHTING (KVA):	
RECEPTACLES (KVA):	
MOTOREQUIPMENT (KVA):	
TOTAL (KVA):	
TOTAL AMP. : (DIVERSITY FACTOR) X 1.25 =	

Notes:
1 Provide a 52 space replacement panelboard
2 Provide a Main Breaker to match Panelboard 'C' replacement

Panel- 'C1', EXSTG, SQUARE 'D', 125 AMP., 120/208VAC, 42-SPACE,									
Space No.	Serves	C/B Size/Type	Load (KVA)	Load (KVA)	C/B Size/Type	Serves	Space No.		
1	Driveway Lights (Exstg)	202(E)	XSTG	XSTG	201(E)		2		
3	-	202(E)	XSTG	XSTG	201(E)	Main Gate Control (Xstg)	4		
5	WTC Sign (Xstg)	202(E)	XSTG	XSTG	202(E)	Lot Lights (Xstg)	6		
7	-	202(E)	XSTG	XSTG	202(E)	-	8		
9	Dryer (Xstg)	253(E)	XSTG	XSTG	302(E)	Electric Vehicle Charger (Xstg)	10		
11	-	253(E)	XSTG	XSTG	302(E)	-	12		
13	-	253(E)	XSTG	0.50	201(N)	Motor (1TH-1,2,3,4)	14		
15	Washer (Xstg)	202(E)	XSTG	0.75	201(N)	Motor (EF-3 & UH-3)	16		
17	-	202(E)	XSTG	1.25	202(N)	Motor (EF-2)	18		
19	Motor (EF-1 & UH-2)	201(N)	1.00	1.25	202(N)	-	20		
21	Motor (UH-1)	201(N)	0.90	0.40	15/3(N)	Motor (FC-1)	22		
23	Motor (MAU-1)	303(N)	1.70	0.40	15/2(N)	-	24		
25	-	203(N)	1.70	0.80	15/3(N)	Motor (DH-1)	26		
27	-	203(N)	1.70	0.80	15/3(N)	-	28		
29	Space			0.80	15/3(N)	-	30		
31	Space					-	32		
33	Space					-	34		
35	Space					-	36		
37	Space					-	38		
39	Space					-	40		
41	Space					-	42		

LIGHTING (KVA):	
RECEPTACLES (KVA):	
MOTOREQUIPMENT (KVA):	
TOTAL (KVA):	
TOTAL AMP. : (DIVERSITY FACTOR) X 1.25 =	

Notes:

Panel- 'D', EXSTG 225 AMP, SQUARE 'D', 42-SPACE, 120/208VAC									
Space No.	Serves	C/B Size/Type	Load (KVA)	Load (KVA)	C/B Size/Type	Serves	Space No.		
1	LIGHTING (KVA):	201(N)	0.70	0.70	201(N)	LIGHTING	2		
3	LIGHTING (KVA):	201(N)	0.70	0.70	201(N)	LIGHTING	4		
5	LIGHTING (KVA):	201(N)	0.70	1.20	201(N)	LIGHTING	6		
7	RECEPTACLE	201(N)	0.36	0.50	302(E)	RECEPTACLE	8		
9	RECEPTACLE	201(N)	0.54	0.70	302(E)	RECEPTACLE	10		
11	RECEPTACLE	201(N)	0.50	0.36	201(E)	RECEPTACLE	12		
13	RECEPTACLE	201(E)	0.54	0.90	201(E)	RECEPTACLE	14		
15	RECEPTACLE	201(E)	0.70	0.50	201(E)	RECEPTACLE	16		
17	RECEPTACLE	201(E)	0.54	0.36	201(E)	RECEPTACLE	18		
19	RECEPTACLE	201(E)	0.70	0.50	201(E)	RECEPTACLE	20		
21	RECEPTACLE	201(E)	0.36	0.54	201(E)	RECEPTACLE	22		
23	RECEPTACLE	201(E)	0.54	0.70	201(E)	RECEPTACLE	24		
25	RECEPTACLE	201(E)	0.90	0.36	201(E)	RECEPTACLE	26		
27	RECEPTACLE	201(E)	0.54	0.18	201(E)	RECEPTACLE	28		
29	RECEPTACLE	201(E)	0.36	0.50	201(E)	RECEPTACLE	30		
31	RECEPTACLE	201(E)	0.50	0.50	201(E)	RECEPTACLE	32		
33	EVH-4	201(E)	1.50	0.18	201(E)	RECEPTACLE	34		
35	EVH-2	201(E)	1.50	0.50	201(N)	RECEPTACLE	36		
37	VENDING (GFI BRK.)	201(N)	0.75	0.75	201(N)	VENDING (GFI BRK.)	38		
39	VENDING (GFI BRK.)	201(N)	0.75	0.18	201(E)	RECEPTACLE	40		
41	RECEPTACLE	201(N)	0.30	0.54	201(N)	RECEPTACLE	42		

LIGHTING (KVA):	4.7
RECEPTACLES (KVA):	18
MOTOREQUIPMENT (KVA):	3
TOTAL (KVA):	25.7
TOTAL AMP. : (DIVERSITY FACTOR) X 1.25 =	71.4

Notes:

Panel- 'H', 225 A., 120/208V AC, 3-Phase, 4- Wire, M.L.O. (22KAIC)									
Space No.	Serves	C/B Size/Type	Load (KVA)	Load (KVA)	C/B Size/Type	Serves	Space No.		
1	Receptacle	201(N)	0.18	0.18	201(N)	Receptacle	2		
3	Receptacle	201(N)	0.18	0.18	201(N)	Receptacle	4		
5	Receptacle	201(N)	0.18	0.18	201(N)	Receptacle	6		
7	Receptacle	201(N)	0.18	0.18	201(N)	Receptacle	8		
9	Receptacle	201(N)	0.18	1.50	202(N)	EVH-5	10		
11	EVH-6	202(N)	1.50	1.50	202(N)	-	12		
13	-	202(N)	1.50	201(N)	Lighting	-	14		
15	TVSS	303(N)			201(N)	SPARE	16		
17	-	303(N)			201(N)	SPARE	18		
19	SPARE	201(N)			201(N)	SPARE	20		
21	SPARE	201(N)			201(N)	SPARE	22		
23	SPARE	201(N)			201(N)	SPARE	24		
25	SPARE	201(N)			201(N)	SPARE	26		
27	SPARE	201(N)			201(N)	SPARE	28		
29	SPARE	201(N)			201(N)	SPARE	30		
31	SPARE	201(N)			201(N)	SPARE	32		
33	SPARE	201(N)			201(N)	SPARE	34		
35	SPARE	201(N)			201(N)	SPARE	36		
37	SPARE	201(N)			201(N)	SPARE	38		
39	SPARE	201(N)			201(N)	SPARE	40		
41	SPARE	201(N)			201(N)	SPARE	42		

LIGHTING (KVA):	
RECEPTACLES (KVA):	2
MOTOREQUIPMENT (KVA):	6
TOTAL (KVA):	8
TOTAL AMP. : (DIVERSITY FACTOR) X 1.25 =	22.2

Notes:

Panel- 'N', EXSTG 225 AMP, SQUARE 'D', 42-SPACE, 120/208VAC									
Space No.	Serves	C/B Size/Type	Load (KVA)	Load (KVA)	C/B Size/Type	Serves	Space No.		
1	Motor (CWP-1)	503(N)	3.04	2.10	353(N)	Motor (HWP-2)	2		
3	-	503(N)	3.04	2.10	353(N)	-	4		
5	-	503(N)	3.04	2.10	353(N)	-	6		
7	Motor (HWP-1)	353(N)	2.10	XSTG	203(E)	Motor (P-3) Xstg	8		
9	-	353(N)	2.10	XSTG	203(E)	-	10		
11	-	353(N)	2.10	XSTG	203(E)	-	12		
13	Motor (HXP-1)	503(E)	3.04	1.00	203(E)	Motor (CBH-1)	14		
15	-	503(E)	3.04	1.00	203(E)	-	16		
17	-	503(E)	3.04	1.00	203(E)	-	18		
19	Motor (CBC-1)	203(E)	1.32	3.30	453(N)	SPARE	20		
21	-	203(E)	1.32	3.30	453(N)	Motor (AHU-3)	22		
23	-	203(E)	1.32	3.30	453(N)	-	24		
25	Motor (BLR-1 & BP-1) SHUNT-TRIP	201(N)	Xstg	5.30	453(N)	-	26		
27	Motor (BLR-1 & BP-1) SHUNT-TRIP	202(N)	1.04	1.04	202(N)	Motor (BLR-2 & BP-2) SHUNT-TRIP	28		
29	-	202(N)	1.04	1.04	202(N)	-	30		
31	Motor (GSF-1)	201(E)	0.96	1.56	202(N)	EVH-7	32		
33	Receptacle	201(E)	1.30	1.50	202(N)	-	34		
35	Receptacle	201(E)	0.90	3.00	1003(N)	Sub-Panel N1	36		
37	Receptacle	201(E)	0.54	3.00	1003(N)	-	38		
39	Receptacle	201(E)	0.50	3.00	1003(N)	-	40		
41	SPARE	201(E)			201(E)	SPARE	42		

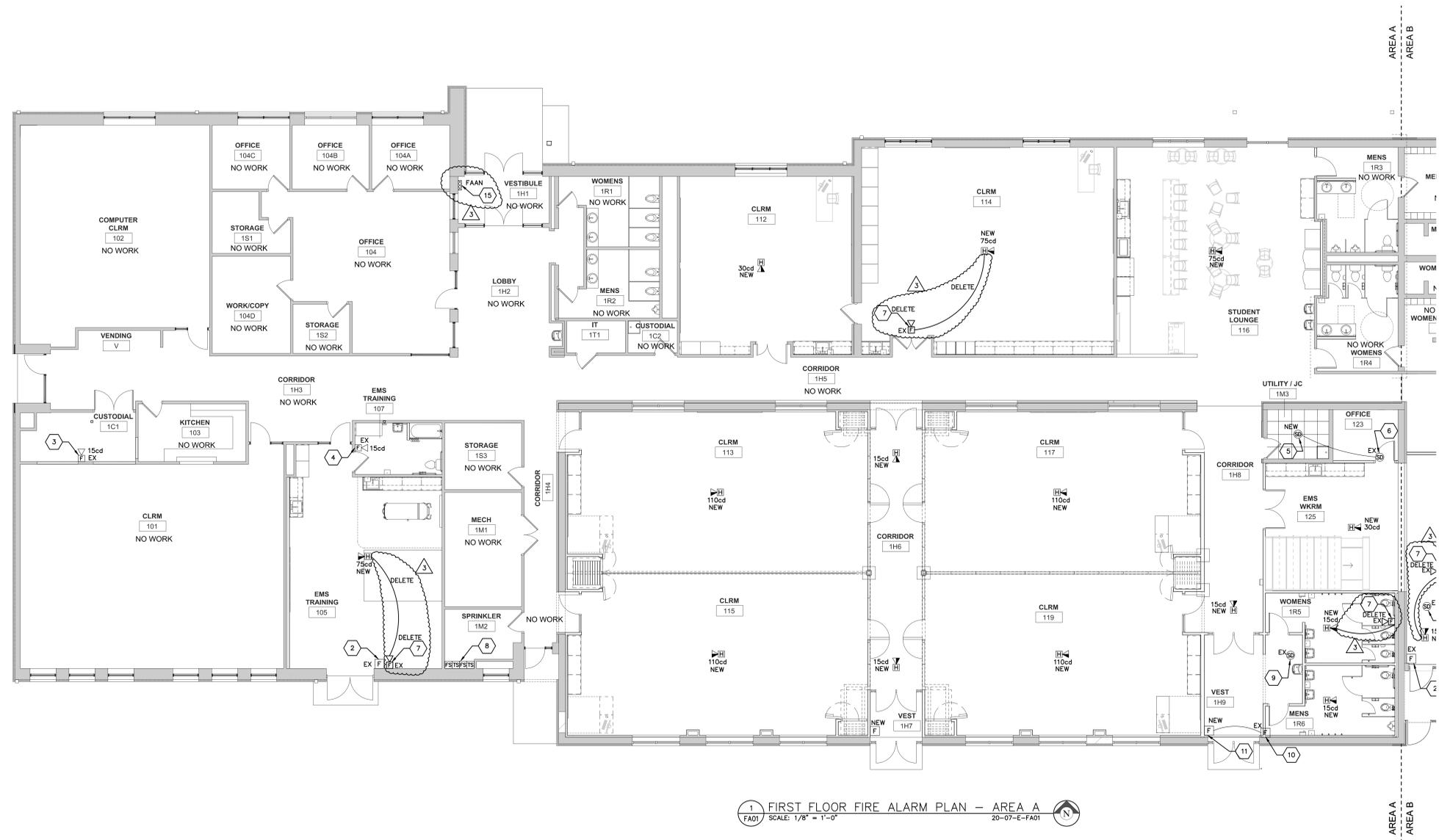
LIGHTING (KVA):	
RECEPTACLES (KVA):	
MOTOREQUIPMENT (KVA):	
TOTAL (KVA):	
TOTAL AMP. : (DIVERSITY FACTOR) X 1.25 =	

Notes:

Panel- 'EM', 400 AMP, 42-SPACE, 120/208VAC, 3-PHASE, 4-WIRE									
Space No.	Serves	C/B Size/Type	Load (KVA)	Load (KVA)	C/B Size/Type	Serves	Space No.		
1	FIRE PUMP	2503	22.80	0.50	15/3	JOCKEY PUMP	2		
3	-	2503	22.80	0.50	15/3	-	4		
5	-	2503	22.80</						



Consultant:



1 FIRST FLOOR FIRE ALARM PLAN - AREA A
FA01 SCALE: 1/8" = 1'-0" 26-07-E-FA01

- GENERAL NOTES:**
- A. CONTACT:
FIRE PROTECTION SPECIALISTS
3906 COMMERCE STREET
BANGOR, WI 54614
608-486-1120
- KEYED FIRE ALARM NOTES:**
1. LOCATION OF EXISTING NOTIFIER FIRE ALARM CONTROL PANEL. REFER TO PHOTO #1/FA01. EXISTING FIRE ALARM CONTROL PANEL CPU IS TO BE REPLACED WITH A NEW CPU.
 2. EXISTING MANUAL PULL STATION TO REMAIN AS IS.
 3. EXISTING WALL-MOUNTED NOTIFICATION DEVICE TO REMAIN AS IS. READJUST CANDELA RATING AS NOTED ON DRAWING.
 4. RELOCATE AND REUSE EXISTING WALL-MOUNTED NOTIFICATION DEVICE. RELOCATE AS INDICATED ON DRAWING, EXTEND EXISTING WIRING AS REQUIRED.
 5. REINSTALL EXISTING SMOKE DETECTOR IN THIS APPROXIMATE LOCATION.
 6. RELOCATE EXISTING SMOKE DETECTOR INTO UTILITIC AREA. EXTEND EXISTING WIRING AS REQUIRED.
 7. INSTALL A NEW FIRE ALARM POWER SUPPLY (FAPS) FOR NEW NOTIFICATION DEVICES AND MAGNETIC DOOR HOLDERS. USE EXISTING 240V BRANCH CIRCUIT FOR FAPS TO ENERGIZE FAPS.
 8. MAKE FINAL CONNECTIONS TO THE SPRINKLER TAMPER SWITCHES. CONNECT TO FIRE ALARM CONTROL PANEL. PROVIDE RELAY AND CONTROL MODULES AS REQUIRED.
 9. EXISTING SMOKE DETECTOR TO REMAIN AS IS.
 10. RELOCATE EXISTING MANUAL PULL STATION AS NOTED AND EXTEND EXISTING WIRING AS REQUIRED TO NEW LOCATION.
 11. REINSTALL EXISTING MANUAL PULL STATION IN THIS APPROXIMATE LOCATION. EXTEND EXISTING WIRING AS REQUIRED.
 12. PROVIDE A MAGNETIC DOOR HOLD DEVICE AND CONNECT TO FIRE ALARM CONTROL PANEL.
 13. RELOCATE EXISTING SMOKE DETECTOR AS NOTED AND EXTEND EXISTING WIRING AS REQUIRED TO NEW LOCATION.
 14. REINSTALL EXISTING SMOKE DETECTOR IN THIS APPROXIMATE LOCATION. EXTEND EXISTING WIRING AS REQUIRED.
 15. PROVIDE A NEW FIRE ALARM ANNUNCIATOR PANEL COMPATIBLE WITH NEW FIRE ALARM CONTROL PANEL. INSTALL IN SAME LOCATION AS PREVIOUSLY REMOVED ANNUNCIATOR PANEL. REUSE EXISTING WIRING, JUNCTION BOX, ETC. TO THE EXTENT POSSIBLE.



PHOTO # 1 3307

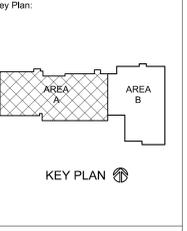
FIRE ALARM SYSTEM

NOTES:
MOUNTING HEIGHTS FOR FIRE ALARM DEVICES:
MANUAL PULL STATION = 48"
HORN / STROBE = 80"
STROBE LIGHTS = 80"
MAGNETIC DOOR HOLDERS = AS SPECIFIED

- [FACP] FIRE ALARM CONTROL PANEL (FACP)
- [FAAN] FIRE ALARM ANNUNCIATOR PANEL (FAAN)
- [F] MANUAL PULL STATION
- [H] HEAT DETECTOR
- [RTS] REMOTE DUCT DETECTOR TEST SWITCH
- [S] DUCT SMOKE DETECTOR
- [SD] SMOKE DETECTOR
- [H] CEILING MOUNT HORN / STROBE
- [DH] MAGNETIC DOOR HOLDER
- [FS] SPRINKLER SYSTEM WATER FLOW SWITCH
- [TS] SPRINKLER SYSTEM TAMPER SWITCH

Project Title:
Project Number:
Project Date:
Drawn By:
Key Plan:

HSR Project Number:
HSR # 20028
Project Date:
FEBRUARY 2021
Drawn By:
HSR



Revisions:

No.	Description	Date
ADDENDUM # 3		2-26-21

Graphic Scale:
VARIES
Last Update:
02/25/21

FA01



Consultant:



Project Title: **WESTERN TECHNICAL COLLEGE
SPARTA PUBLIC SAFETY EXPANSION**
Project Location: 11177 COUNTY ROAD A
SPARTA, WI 54656
Sheet Title: **FIRST FLOOR FIRE ALARM PLAN - AREA B**

Project Number: **HSR # 20028**
Project Date: **FEBRUARY 2021**
Drawn By: **HSR**

Key Plan:



KEY PLAN

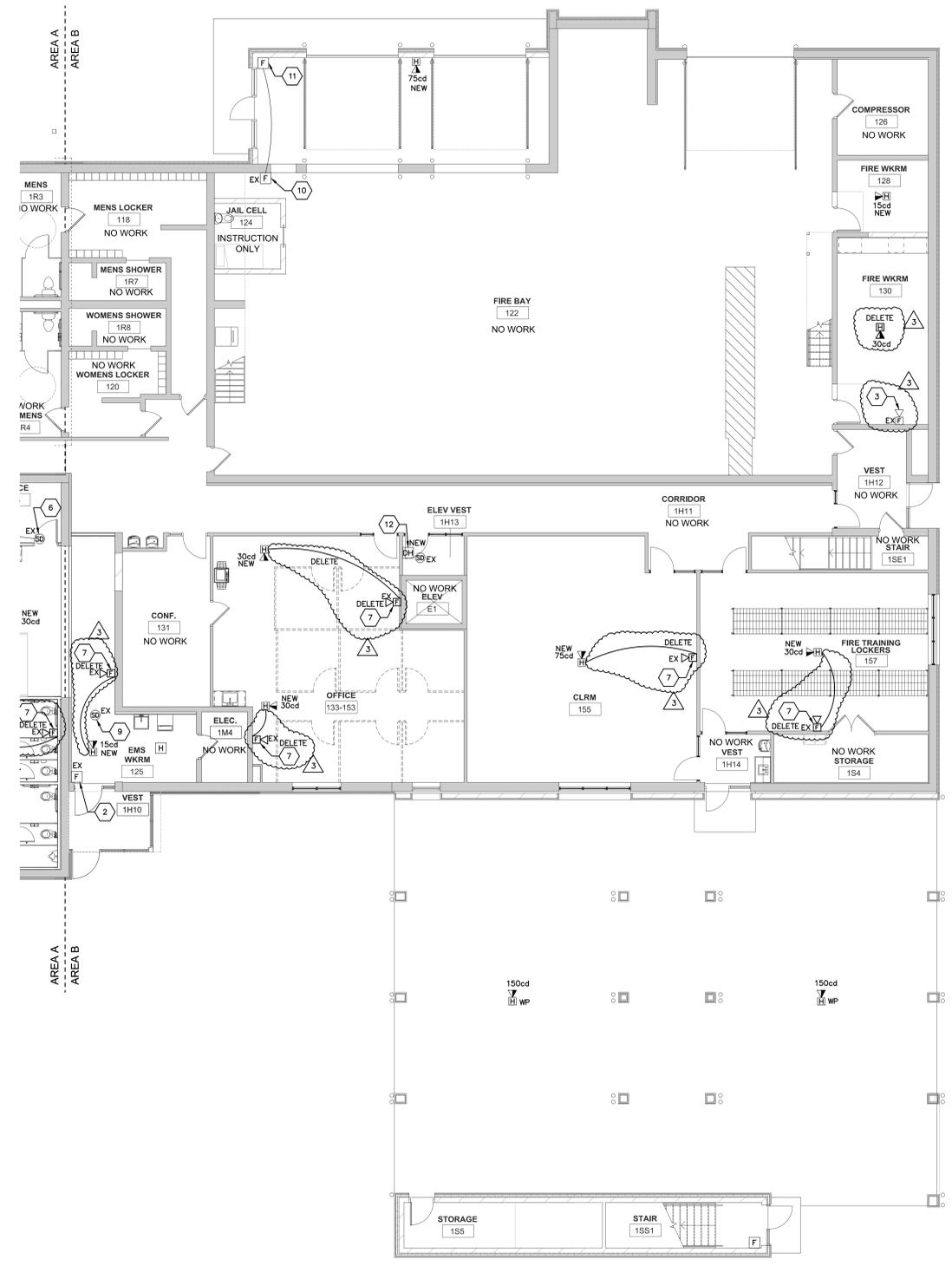
Revisions:

No.	Description	Date
△	ADDENDUM # 3	2-26-21

Graphic Scale:
VARIES

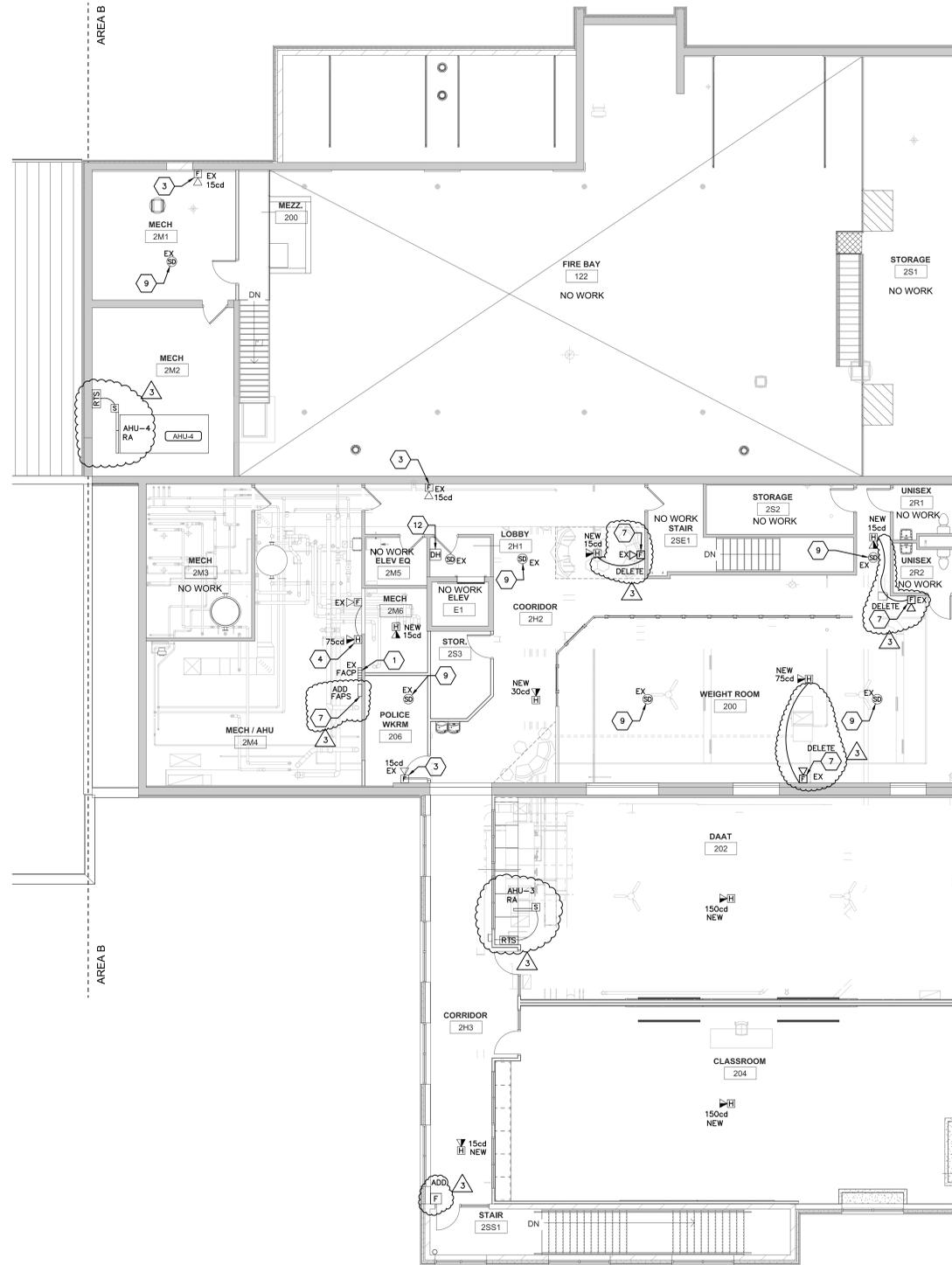
Last Update:
02/25/21

FA02



- GENERAL NOTES:**
- A. CONTACT:
FIRE PROTECTION SPECIALISTS
1506 COMMERCE STREET
BANGOR, WI 54814
608-86-1120
- KEYED FIRE ALARM NOTES:**
1. LOCATION OF EXISTING NOTIFIER FIRE ALARM CONTROL PANEL. REFER TO PHOTO **FA01**. EXISTING FIRE ALARM CONTROL PANEL CPU IS TO BE REPLACED WITH A NEW CPU.
 2. EXISTING MANUAL PULL STATION TO REMAIN AS IS.
 3. EXISTING WALL-MOUNTED NOTIFICATION DEVICE TO REMAIN AS IS. READJUST CANDELA RATING AS NOTED ON DRAWING.
 4. RELOCATE AND REUSE EXISTING WALL-MOUNTED NOTIFICATION DEVICE. RELOCATE AS INDICATED ON DRAWING. EXTEND EXISTING WIRING AS REQUIRED.
 5. REINSTALL EXISTING SMOKE DETECTOR IN THIS APPROXIMATE LOCATION.
 6. RELOCATE EXISTING SMOKE DETECTOR INTO UTILITY GLEAS. EXTEND EXISTING WIRING AS REQUIRED.
 7. INSTALL A NEW FIRE ALARM POWER SUPPLY (FAPS) FOR NEW NOTIFICATION DEVICES AND MAGNETIC DOOR HOLDERS. USE EXISTING 120VAC BRANCH CIRCUIT FOR FACTORY ENERGIZE FAPS.
 8. REUSE EXISTING CONTROL WIRING TO PROVIDE SMOKE DETECTOR AND TAMPER SWITCHES. CONNECT TO FIRE ALARM CONTROL PANEL. PROVIDE RELAY AND CONTROL MODULES AS REQUIRED.
 9. EXISTING SMOKE DETECTOR TO REMAIN AS IS.
 10. RELOCATE EXISTING MANUAL PULL STATION AS NOTED AND EXTEND EXISTING WIRING AS REQUIRED TO NEW LOCATION.
 11. REINSTALL EXISTING MANUAL PULL STATION IN THIS APPROXIMATE LOCATION. EXTEND EXISTING WIRING AS REQUIRED.
 12. RELOCATE A MAGNETIC DOOR HOLD DEVICE AND CONNECT TO FIRE ALARM CONTROL PANEL.
 13. RELOCATE EXISTING SMOKE DETECTOR AS NOTED AND EXTEND EXISTING WIRING AS REQUIRED TO NEW LOCATION.
 14. REINSTALL EXISTING SMOKE DETECTOR IN THIS APPROXIMATE LOCATION. EXTEND EXISTING WIRING AS REQUIRED.
 15. PROVIDE A NEW FIRE ALARM ANNUNCIATOR PANEL COMPATIBLE WITH NEW FIRE ALARM CONTROL PANEL. INSTALL IN SAME LOCATION AS PREVIOUSLY REMOVED ANNUNCIATOR PANEL. REUSE EXISTING WIRING, JUNCTION BOX, ETC. TO THE EXTENT POSSIBLE.

1 FIRST FLOOR FIRE ALARM PLAN - AREA B
FA02 SCALE: 1/8" = 1'-0" 20-07-E-FA01



- GENERAL NOTES:**
- A. CONTACT:
FIRE PROTECTION SPECIALISTS
1306 COMMERCE STREET
BANGOR, WI 54614
608-486-1120
- KEYED FIRE ALARM NOTES:**
1. LOCATION OF EXISTING NOTIFIER FIRE ALARM CONTROL PANEL. REFER TO PHOTO #1/FA01. EXISTING FIRE ALARM CONTROL PANEL CPU IS TO BE REPLACED WITH A NEW CPU.
 2. EXISTING MANUAL PULL STATION TO REMAIN AS IS.
 3. EXISTING WALL MOUNTED NOTIFICATION DEVICE TO REMAIN AS IS. READJUST CANDELA RATING AS NOTED ON DRAWING.
 4. RELOCATE AND REUSE EXISTING WALL MOUNTED NOTIFICATION DEVICE. RELOCATE AS INDICATED ON DRAWING, EXTEND EXISTING WIRING AS REQUIRED.
 5. REINSTALL EXISTING SMOKE DETECTOR IN THIS APPROXIMATE LOCATION.
 6. RELOCATE EXISTING SMOKE DETECTOR INTO UTILITY CLAM. EXTEND EXISTING WIRING AS REQUIRED.
 7. INSTALL A NEW FIRE ALARM POWER SUPPLY (FAPS) FOR NEW NOTIFICATION DEVICES AND MAGNETIC DOOR HOLDERS. USE EXISTING 120VAC BRANCH CIRCUIT FOR FAPS TO ENERGIZE FAPS.
 8. MAKE TRAIL CONNECTION TO SMOKE DETECTOR AND TAMPER SWITCHES, CONNECT TO FIRE ALARM CONTROL PANEL. PROVIDE RELAY AND CONTROL MODULES AS REQUIRED.
 9. EXISTING SMOKE DETECTOR TO REMAIN AS IS.
 10. RELOCATE EXISTING MANUAL PULL STATION AS NOTED AND EXTEND EXISTING WIRING AS REQUIRED TO NEW LOCATION.
 11. REINSTALL EXISTING MANUAL PULL STATION IN THIS APPROXIMATE LOCATION. EXTEND EXISTING WIRING AS REQUIRED.
 12. PROVIDE A MAGNETIC DOOR HOLD DEVICE AND CONNECT TO FIRE ALARM CONTROL PANEL.
 13. RELOCATE EXISTING SMOKE DETECTOR AS NOTED AND EXTEND EXISTING WIRING AS REQUIRED TO NEW LOCATION.
 14. REINSTALL EXISTING SMOKE DETECTOR IN THIS APPROXIMATE LOCATION. EXTEND EXISTING WIRING AS REQUIRED.
 15. PROVIDE A NEW FIRE ALARM ANNUNCIATOR PANEL COMPATIBLE WITH NEW FIRE ALARM CONTROL PANEL. INSTALL IN SAME LOCATION AS PREVIOUSLY REMOVED ANNUNCIATOR PANEL. REUSE EXISTING WIRING, JUNCTION BOX, ETC. TO THE EXTENT POSSIBLE.

1 SECOND FLOOR FIRE ALARM PLAN - AREA B
FA03 SCALE: 1/8" = 1'-0" 20-07-E-FA02

Project Title: WESTERN TECHNICAL COLLEGE
SPARTA PUBLIC SAFETY EXPANSION

Project Location: 11177 COUNTY ROAD A
SPARTA, WI 54656

Sheet Title: SECOND FLOOR FIRE ALARM PLAN - AREA B

HSR Project Number: HSR # 20028

Project Date: FEBRUARY 2021

Drawn By: HSR

Key Plan:

KEY PLAN

Revisions:

No.	Description	Date
Δ 3	ADDENDUM # 3	2-26-21

Graphic Scale: VARIES

Last Update: 02/25/21

FA03