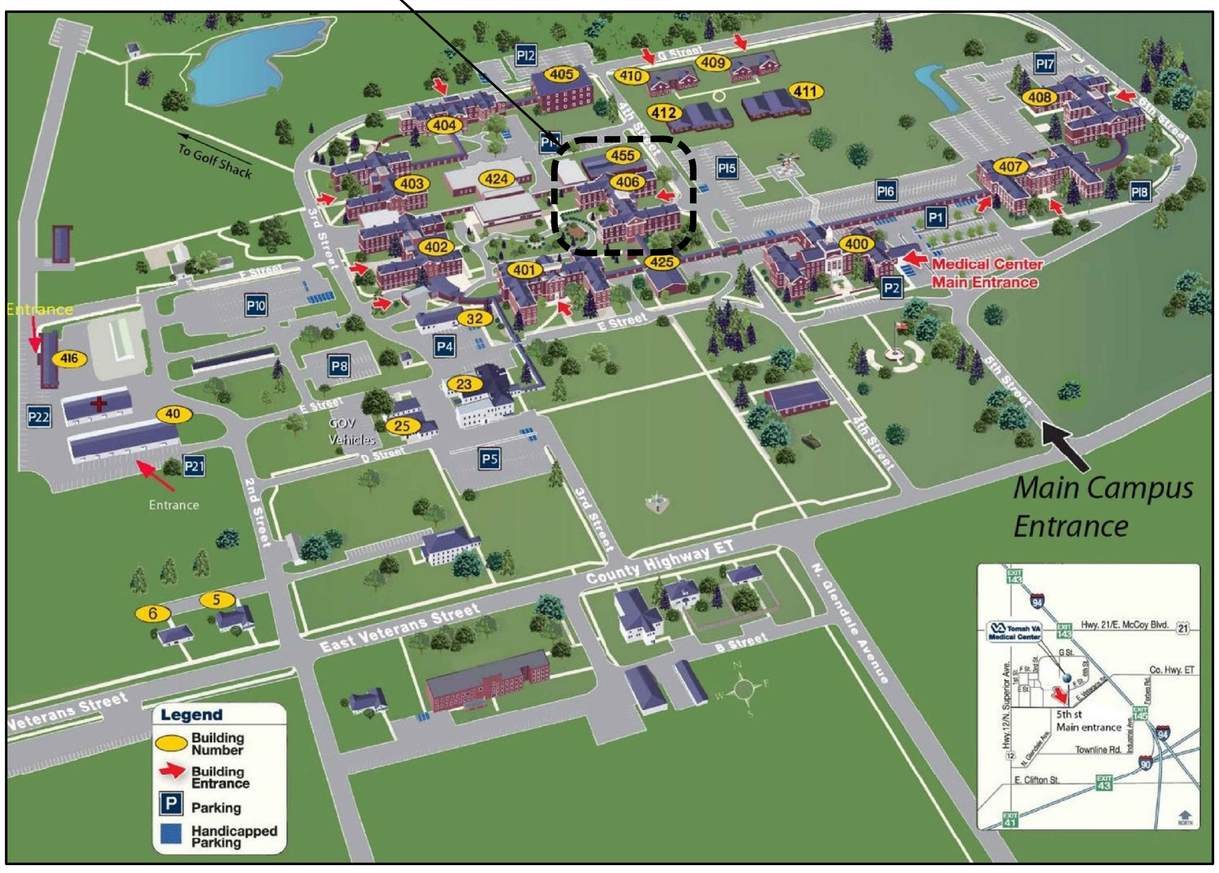
VETERANS AFFAIRS MEDICAL CENTER

500 E VETERANS ST
TOMAH, WI 54660

CONNECT B406 AHU'S TO EMERGENCY POWER

PROJECT NO.: 676-22-108

CAMPUS MAP



SITE PLAN

NORTH

PROJECT TEAM

PROJECT LEADER / ARCHITECT

PENN CONSTRUCTION GROUP

1021 N. Superior
Unit 11
Tomah, Wisconsin 54660

MECHANICAL

PENN CONSTRUCTION GROUP

1021 N. Superior
Unit 11
Tomah, Wisconsin 54660

PLUMBING

PENN CONSTRUCTION GROUP

1021 N. Superior
Unit 11
Tomah, Wisconsin 54660

ELECTRICAL

PENN CONSTRUCTION GROUP

1021 N. Superior
Unit 11
Tomah, Wisconsin 54660

SHEET INDEX

SHEET NUMBER	SHEET NAME	ISSUED FOR 35% SD 9/02/2025	RE-ISSUED FOR 35% SD 9/22/2025	ISSUED FOR 65% DD 10/31/2025	ISSUED FOR 95% CD 11/14/2025	ISSUED FOR BID 11/20/2025
GENERAL INFORMATION						
GI001	TITLE SHEET	X	X *	X	X	X
GC101	LIFE SAFETY PLAN	X	X	X	X	X
GC102	INFECTION CONTROL PLANS	X	X	X	X	X
GC103	PHASING PLAN	X	X	X	X	X
CIVIL						
C001	LEGEND AND GENERAL NOTES	X	X	X	X	X
CD101	PARTIAL SITE AND WORK AREA SITE PLANS - DEMOLITION	X	X	X	X	X
C101	PARTIAL SITE AND WORK AREA SITE PLANS - NEW WORK			X	X	X
C501	DETAILS	X	X	X	X	X
HAZARDOUS						
HA101	HAZARDOUS MATERIALS OVER-ALL FLOOR PLAN					X
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A001	LEGENDS, ABBREVIATIONS, AND NOTES	X	X	X	X	X
A101	B446/B406 PARTIAL FIRST FLOOR PLANS - NEW WORK	X	X	X	X	X
MECHANICAL						
M001	LEGENDS, ABBREVIATIONS, AND NOTES	X	X	X	X	X
MH101	B446 FIRST FLOOR PLAN AND SCHEDULE - NEW WORK	X	X	X	X	X
M501	DETAILS & DIAGRAMS	X	X	X	X	X
ELECTRICAL						
E001	SYMBOLS AND ABBREVIATIONS	X	X *	X	X	X
ED101	B406 UTILITY TUNNEL/UNDERGROUND PLAN - DEMOLITION	X	X *	X	X	X
ED102	B406 PARTIAL CRAWLSPACE PLAN - DEMOLITION	X	X *	X	X	X
ED103	B446/B406 PARTIAL FIRST FLOOR PLAN - DEMOLITION			X	X	X
ED601	ONE-LINE DIAGRAM - DEMOLITION				X	X
EP101	B406 UTILITY TUNNEL/UNDERGROUND PLAN - NEW WORK	X	X *	X	X	X
EP102	B406 PARTIAL CRAWLSPACE PLAN - NEW WORK	X	X *	X	X	X
EP103	B446 FIRST FLOOR AND SECTIONS - NEW WORK			X	X	X
E401	SECTIONS				X	X
E501	DETAILS & DIAGRAMS	X	X *	X	X	X
E601	ONE-LINE DIAGRAM - NEW WORK	X	X *	X	X	X
E602	ELECTRICAL SCHEDULES	X	X *	X	X	X

* INDICATES DRAWING UPDATED OCTOBER 15, 2025

IN THE CASE OF CONFLICTS OR DISCREPANCIES WITHIN OR AMONG THE CONTRACT DRAWINGS, THE BETTER QUALITY, MORE STRINGENT REQUIREMENTS OR GREATER QUANTITY OF WORK, AS DETERMINED BY THE GOVERNMENT, SHALL BE PROVIDED.

FULLY SPRINKLERED

100% BD DOCUMENT

Revisions: Date

VETERANS AFFAIRS MEDICAL CENTER
500 E VETERANS ST
TOMAH, WI 54660

CONSULTANTS:

PROJECT LEADER:

PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title: TITLE SHEET

Approved: Project Director

Project Title: Connect B406 AHU-5 to Emergency Power

Location: Tomah, Wisconsin

Date: November 20, 2025

Checked By: HFB

Drawn By: KAB

Project Number: 676-22-108

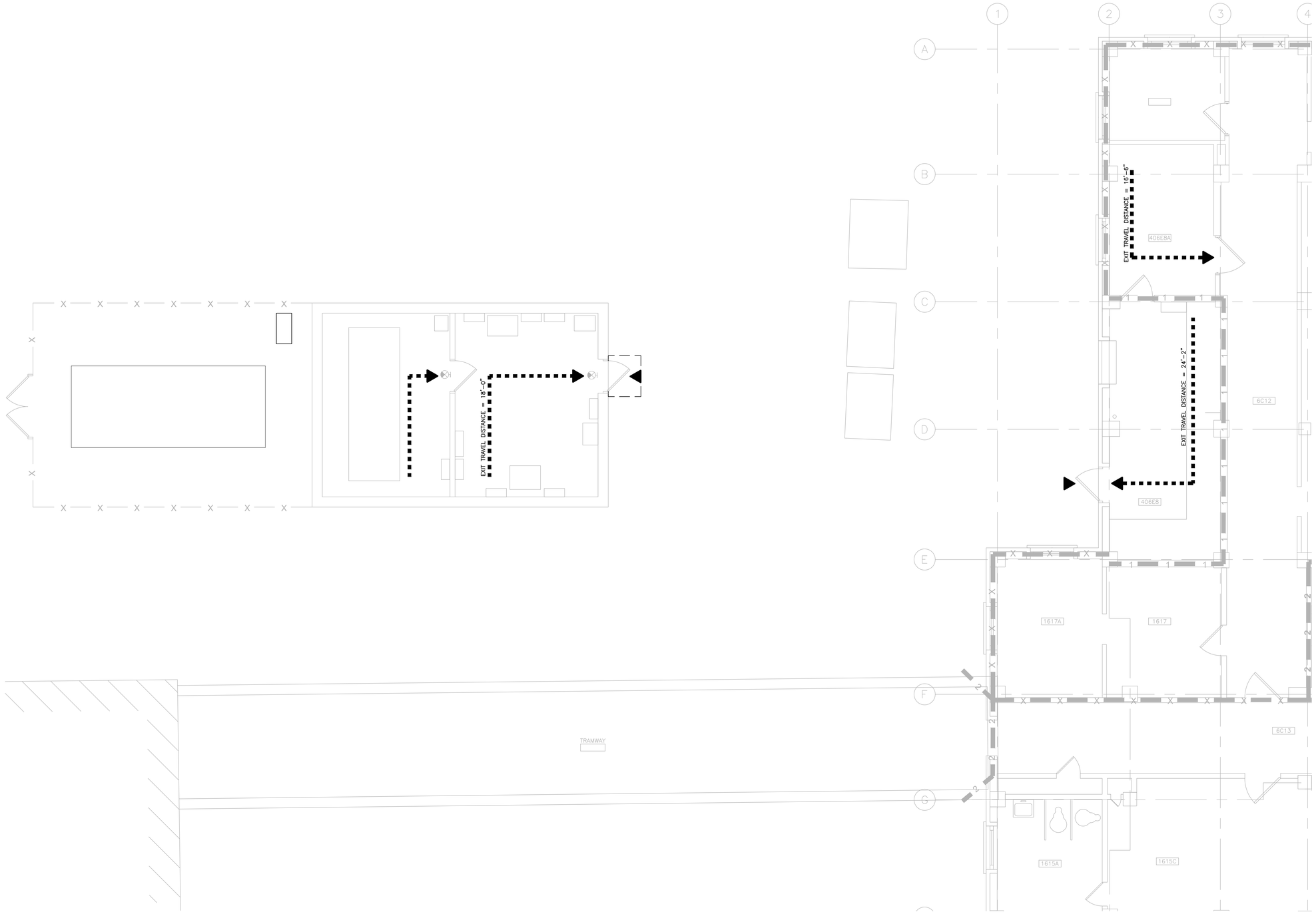
Building Number

Drawing Number: GI001

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 FIRST FLOOR PLAN
1/4"= 1'-0"

NORTH

GENERAL NOTES

1. REFER TO GC SHEETS FOR IC/PHASING PLANS. ALL WORK TO BE DONE IN ACCORDANCE WITH THE PHASES IDENTIFIED.
2. GENERAL CONTRACTOR SHALL REVIEW MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION PLANS FOR ADDITIONAL CONSTRUCTION WORK.
3. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL CONSTRUCTION WORK.
4. MAINTAIN CONTINUOUS UTILITY SERVICE TO ALL SPACES IN THE BUILDING NOT AFFECTED BY THIS WORK. COORDINATE WITH VA COR ANY DISRUPTION IN SERVICES REQUIRED TO PERFORM WORK.
5. PATCH ALL SURFACES DISTURBED BY DEMOLITION TO CREATE A SMOOTH AND CONSISTENT FINISH WITH ADJACENT MATERIALS. TYPICAL AT FLOORS, WALLS, AND CEILINGS.
6. DIMENSIONS ON FLOOR PLAN ARE BASED ON FACE OF FINISHED WALL TO FACE OF FINISHED WALL (NOMINAL).
7. INTERIOR PARTITIONS SHALL BE TYPE "A5" UNLESS NOTED OTHERWISE. SEE PARTITION TYPES ON SHEET A001.
8. PROVIDE IN-WALL BLOCKING FOR WALL HUNG EQUIPMENT, ACCESSORIES, CASEWORK, AND TRIM.

FIRE AND SAFETY NOTES

1. MAINTAINING THE INTEGRITY OF THE FIRE AND SAFETY SYSTEMS IN PLACE IN THE MEDICAL CENTER AND ALL OF ITS OUT BUILDINGS DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
2. IN ADDITION TO ALL VA MEDICAL CENTER POLICIES & REGULATIONS, ALL FEDERAL GOVERNMENT, STATE, AND LOCAL CODES AND ORDINANCES SHALL APPLY TO ALL OF THEIR CONTRACTORS AND SUB-CONTRACTORS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL PERTINENT OSHA SAFETY REQUIREMENTS.

BASIC BUILDING INFORMATION

APPLICABLE CODES:
- 2018 INTERNATIONAL BUILDING CODE – GROUP F2 LOW HAZARD FACTORY INDUSTRIAL
- 2018 EXISTING INTERNATIONAL BUILDING CODE – LEVEL 2 RENOVATION
- 2018 NFPA 101 LIFE SAFETY CODE – CHAPTER 40 INDUSTRIAL

CONSTRUCTION TYPE:
- NFPA 220 TYPE II (0,0,0), IBC TYPE IIB
- UNPROTECTED STEEL FRAME WITH MASONRY EXTERIOR CLADDING
- NON-SPRINKLERED

MEANS OF EGRESS
- DIRECT EGRESS TO BUILDING EXTERIOR
- MAXIMUM TRAVEL DISTANCE OF 200'-0" TO AN EXIT
- SECOND EXIT WITHIN 1/2 OF DIAGONAL DISTANCE OF FLOOR PLAN
- 50'-0" MAXIUMUM COMMON PATH OF TRAVEL
- MINIMUM 36" WIDE EXIT DOOR

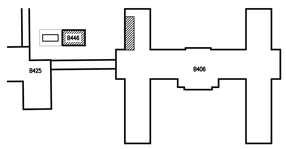
OCCUPANT LOAD:
- 5,280 GSF AT 300 GSF PER PERSON = 17 PEOPLE MAX
- ACTUAL OCCUPANT LOAD IS LESS THAN 5 PEOPLE

AREAS:
- GENERATOR ROOM 187 SF
- ELECTRICAL ROOM 130 SF

EGRESS WIDTH:
REQUIRED: @ 0.20 PER OCCUPANT = 3.4"
@ 34" MIN. PER DOOR = 68" MIN.
PROVIDED: 135"

LEGEND

- 2 HOUR FIRE RATED WALL
- EXIT TRAVEL DISTANCE
- COMMON PATH OF TRAVEL
- EXIT



KEY PLAN NORTH

FULLY SPRINKLERED

100% BD DOCUMENT

Revisions:	Date

VETERANS AFFAIRS MEDICAL CENTER
500 E VETERANS ST
TOMAH, WI 54660

CONSULTANTS:

PROJECT LEADER:

PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title	GENERAL LIFE SAFETY PLAN
Approved: Project Director	
Project Title	Connect B406 AHU-5 to Emergency Power
Location	Tomah, Wisconsin
Date	November 20, 2025
Checked By:	HFB
Drawn By:	KB
Project Number	676-22-108
Building Number	446/406
Drawing Number	GC101

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

INFECTION CONTROL RISK ASSESSMENT - LOW RISK AREAS :

TABLE 1 - CONSTRUCTION, RENOVATION, AND/OR MAINTENANCE ACTIVITY CATEGORY

Activity Category determined from Table 1 (*A, B, C, or D*): C

Category A	**Inspection and/or facility upkeep generally defined as follows**: • Work can be completed in a single shift, not to exceed 10 hours. • Patients and/or employees may be in the area depending on the activity. • Work that does not create dust or debris. • Removal of ceiling tile or access to mechanical or electrical chase for visual inspection limited to 1 tile per 50 square feet with limited exposure time (not to exceed an hour for each tile) within the shift. • Minor interior updates (e.g., replacing floor or ceiling tiles, carpentry work to include hanging signage, and painting without sanding) that do not create dust or debris. • Limited building system maintenance such as basic plumbing on potable systems (e.g., faucet replacement) or basic electrical work such as replacement of light bulbs, receptacles, or switches.
Category B	**General maintenance and repair work generally defined as follows:** • Prolonged inspection and work that may take longer than a single shift but not exceeding a week. • Patients and employees are not to be in the area until activity is completed. • Work that creates minimal dust and debris.
Category C	• Interior finish or surface repairs, updates, or modifications such as repair of firewalls and barriers, and new flooring that produces minimal dust and debris. Controlled sanding activities (e.g., wet or dry sanding) that produce minimal dust and debris. • Plumbing work such as installation or replacement of a single fixture or piping for a single fixture. Any work on sanitary plumbing including snaking of drains. • Electrical work such as installation of cabling/wiring/conduit for a single device, installation of new device such as a light fixture that produces minimal dust and debris. • Air Handler and/or fan shutdown/startup and HVAC work such as replacement of a single diffuser, single terminal unit or a single device that produces minimal dust and debris. **Small-scale construction, renovation, or maintenance generally defined as follows**: • Work requiring longer than a single week to complete but not exceeding 6 months. • Patients and employees are not to be in the area until activity is completed. • Demolition/removal of preexisting floor covering, casework, lay-in ceiling, or other architectural elements. • Demolition/removal of more than 32 ft^2 of drywall/framing, hard ceilings, and doors/framing and minimal infrastructure such as electrical circuits and branch piping. • Installation of new walls, ceilings and doors including framing, drywall/plaster and associated work. • Plumbing work such as the installation of new sinks, showers and toilets and associated plumbing. • Shut down of sections of potable water systems. • Electrical work such as installation of conduit and wire for lighting, receptacles and switches for an area, the installation of conduit and wire for new devices such as terminal units, fans etc. • Modification of existing fire alarm and suppression systems. • Mechanical work such as the installation of ductwork, diffusers, and terminal units for an area.
Category D	**Large-scale construction, renovation, or maintenance generally defined as follows**: • Work exceeding 6 months in duration. • Patients and employees are not to be in the area until activity is completed. • Large-scale demolition of building components and infrastructure including removal of multiple doors, walls, framing, ceilings, flooring, piping, electrical and HVAC. • The installation building components such as new walls, ceilings and doors including framing, drywall and associated plaster work. • Plumbing work such as the installation of: o new medical gas systems, o steam/heating hot water, condensate systems, o multiple sinks, showers and toilets including associated plumbing. • Shutdown of potable water, steam/heating hot water, condensate, and medical gas systems. • Electrical work such as installation of electrical feeders, distribution panels, conduit and wire for lighting, receptacles and switches for an area, the installation of conduit and wire for new devices such as terminal units, fans etc. • Installation of fire alarm and suppression systems. • Electrical shutdown of multiple panels. • Mechanical work such as the installation of air handling equipment, associated ductwork, diffusers, heat exchangers, terminal units and controls.

TABLE 2 - AFFECTED AREA ASSESSMENT

Area	Service(s)/Type(s) of Area(s) *(e.g., OR, Unit/Ward, Sterile Processing, Administrative, etc.)**	Point of Contact (POC)	POC Contact Information
Activity Area**	B406 - Rooms 406E8 & 406E8A B446		

TABLE 3 - PATIENT RISK CATEGORY

Overall Patient Risk Category determined from Table 3 (*Low, Medium, High, or Highest*): Low

Low Risk	Medium Risk	High Risk	Highest Risk
Non-patient care areas such as:	Patient care support areas such as:	Patient care areas such as:	Procedural, invasive, sterile support and highly compromised patient care areas such as:
• Public hallways and gathering areas not in clinical areas • Office areas not in clinical areas • Breakrooms not in clinical areas • Bathrooms or locker rooms not in clinical areas • Mechanical/electrical rooms not in clinical areas	• Waiting areas • Clinical engineering (biomedical) • Materials management • Sterile processing department – dirty side • Kitchen, cafeteria, gift shop, coffee shop, and food kiosks	• Patient care rooms and areas, including spinal cord injury units • All acute care units, including mental health • All outpatient units and clinics • Emergency department • Community Living Centers, domiciliaries, and transitional residences • Employee health • Pharmacy – general work zone • Medication rooms and clean utility rooms • Imaging suites – diagnostic imaging • Laboratory	• All transplant units • All intensive care units • All oncology units and chemotherapy/infusion centers • OR theaters and restricted areas • Hemodialysis units • Procedural rooms* • Pharmacy compounding area • Sterile processing department – clean side • Transfusion services • Imaging suites – interventional imaging • Dedicated isolation wards/units for infectious diseases

TABLE 4 - LEVEL OF INFECTION PREVENTION AND CONTROL PRECAUTIONS = II

Patient Risk Category	Activity Category A	B	C	D
Low Risk	I	II	II	III
Medium Risk	I	II	III	IV
High Risk	I	II	IV	IV
Highest Risk	II	III	IV	IV

TABLE 5 - REQUIRED INFECTION PREVENTION AND CONTROL MEASURES, BY LEVEL OF PRECAUTIONS

Level of Precautions	Control Measures
Level I	1. Perform work activity in a manner that does not create dust. 2. Immediately replace any ceiling tile, close access panels, etc., upon completion of work. 3. Any materials and equipment being brought into the facility must be free of contaminants and loose material.
Level II	**All control measures in Level I and the following:** 1. Provide active means to control airborne dust from dispersing into occupied areas and/or water mist surface to control dust (e.g., Mobile Dust Containment Cart or some other system). 2. Ensure worker clothing is clean and free of visible dust before leaving the work area. 3. Remove or isolate air diffusers (supply and return) to protect the HVAC system from dust and reduce air turbulence. Rebalance system to address diffuser isolation.
	4. When the work involves or impacts potable water systems including stagnation due to reduced usage, the piping shall be flushed twice a week or isolated from the main system. 5. Seal doors to prevent dust migration. 6. Contain all trash and debris in the work area. Perform daily cleaning and disposal of trash (covered) from work area using an identified exit route. 7. Any equipment, tools, or materials removed from the work area must be in sealed containers and/or cleaned of dust and debris prior to removal from the area. 8. Nonporous/smooth and cleanable containers (with a hard lid) must be used to transport trash and debris from the construction areas. These containers must be damp-wiped cleaned and free of visible dust/debris before leaving the contained work area. 9. Install a sticky (dust collection) mat at entrance of contained work area based on facility policy. Sticky mats must be changed routinely and when visibly soiled. 10. Maintain clean surroundings when area is not contained by damp mopping or HEPA vacuuming surfaces at least daily.
Level III	**All control measures in Levels I and II and the following:** 1. Ensure availability of equipment for cleaning hands. 2. Construct and complete critical barriers meeting NFPA 241 requirements. Barriers must extend to the ceiling or if ceiling tile is removed, to the deck above. 3. All (plastic or hard) barrier construction activities must be completed in a manner that prevents dust release. Plastic barriers must be effectively affixed to floor and ceiling (or floor/roof deck above) and secure from movement or damage. 4. Seal all penetrations in containment barriers, including floors and ceiling, using approved materials (UL schedule firestop if applicable for barrier type). 5. Maintain .01 inches /water gauge negative pressurization of the entire workspace by use of HEPA exhaust air systems directed outdoors, or comply with the alternative method outlined in Appendix A of this document. These control measures must be maintained continuously 24/7 for the duration of the project. HEPA filtered exhaust if discharged directly to the outdoors must be at a distance of 25 feet or greater from entrances, air intakes and operable windows. Exhausting discharged air into shared or recirculating HVAC systems, or other shared exhaust systems (e.g., bathroom exhaust) is prohibited. 6. Install a differential pressure sensing device (e.g., magnehelic, manometer, or digital monitoring) on exterior of work containment to continually monitor and document negative pressurization. The "ball in the wall" or similar apparatus are not acceptable.
Level IV	**All control measures in Levels I, II and III and the following:** 1. Barriers must be hard barriers unless temporary to install final barrier. 2. Containment must include an anteroom to ensure pressure control. Anteroom must be large enough for equipment staging, cart cleaning, workers' PPE and cleaning. 3. Worker clothing and/or PPE must be removed or clean and free of visible dust before leaving the work area anteroom. HEPA vacuuming of clothing or use of cover suits is acceptable. 4. Workers must wear shoe covers or have a method to clean shoes in anteroom. Shoe covers must be removed prior to exiting the anteroom to the occupied space (non-work area). Damaged shoe covers must be changed immediately.

TABLE 6 - MINIMUM INFECTION PREVENTION AND CONTROL MEASURES REQUIRED UPON COMPLETION OF THE ACTIVITY

Level of Precautions	Measures
Levels I - II	**Cleaning:** 1. Clean work areas including all environmental surfaces, high horizontal surfaces and flooring materials. 2. Check all supply and return air registers for dust accumulation on upper surfaces as well as air diffuser surfaces. **HVAC Systems:** 1. Remove isolation of HVAC system in areas where work is being performed. Verify that HVAC systems are clean and operational. 2. Verify the HVAC systems meet original airflow and air exchange design specifications. **Water systems:** 1. Until the potable water system is activated and in use, flushing shall continue at least twice per week in accordance with VHA Directive 1061.
Levels III - IV	Construction areas must be inspected by an infection preventionist and engineering representative (and others as determined by the facility) for final activity/project close out and removal of infection prevention and control measures. **Work Area Cleaning:** 1. Clean work areas including all environmental surfaces, high horizontal surfaces and flooring materials. 2. Check all supply and return air registers for dust accumulation on upper surfaces as well as air diffuser surfaces. **Removal of Critical Barriers:** 1. Critical barriers must remain in place during all work involving drywall removal, creation of dust and activities beyond simple touch-up work. The barrier may NOT be removed until a work area cleaning has been performed. Additional cleaning may be needed after removal of barrier. 2. All (plastic or hard) barrier removal activities must be completed in a manner that prevents dust release. Use the following precautions when removing hard barriers: i. Carefully remove screws and painter tape. ii. If dust will be generated during screw removal, use hand-held HEPA vacuum. iii. Drywall cutting is prohibited during removal process. iv. Clean all stud tracks with HEPA vacuum before removing outer hard barrier. v. Use a plastic barrier to enclose area if dust could be generated. **Negative Air Requirements:** 1. The use of negative air must be designed to remove contaminants from the work area. 2. Negative air devices (fans, filters, monitoring and documentation equipment) must remain operational at all times and in place for a period after completion of dust creating activities to remove contaminants from the work area and before removal of critical barriers. **HVAC systems:** 1. Upon removal of critical barriers, remove isolation of HVAC system in areas where work is being performed. 2. Verify that HVAC systems are clean and operational. 3. Verify and document through a TAB the HVAC systems meets original airflow and air exchange design specifications. **Water systems:** 1. Until the potable water system is activated and in use, flushing shall continue at least twice per week in accordance with VHA Directive 1061.

ALTERNATE TO OUTDOOR EXHAUST REQUIREMENTS

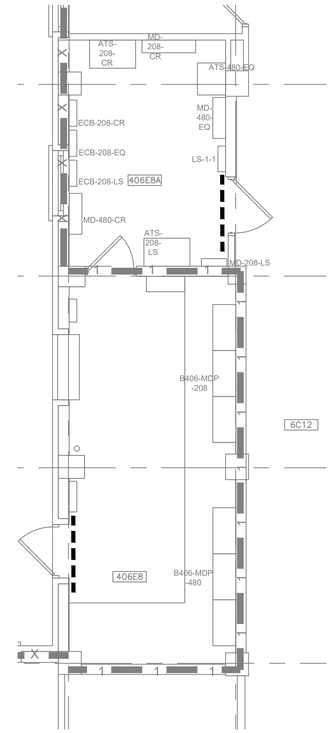
This Appendix provides an equivalent ICRA control measure to requirements detailed in this VHA ICRA template (Table 5 Level III, item 5) that would allow interior construction space exhaust.

Interior Construction Space Exhaust:

If the facility is not able to exhaust to the building exterior, the Healthcare Environment and Facilities program office has identified an alternate industry-recognized standard interior exhaust procedure that is accepted as providing an equivalent level of infection prevention and control (IPC), and safety. The alternate interior exhaust procedure is implemented by completing the following:

a. If exhaust is directed indoors, then the system must be HEPA filtered. Prior to start of work, including assembly of the ICRA barriers, initial baseline air sampling measurements for particulate levels must be taken in the planned area of discharge. Once containment is erected and completed, HEPA filtration must then be verified by particulate measurement, using a particle counter with multi-channel capabilities to measure down to 0.3 microns, to confirm that the discharge of the HEPA unit does not exceed the baseline particulate count of the area to which the exhaust is directed. Verification must continue at least three times per day (once every 8 hours), 7 days per week, during the use of the negative air machine and HEPA filter. Any exceedance must trigger a work stoppage and an immediate response and resolution. All particulate measurements, including the baseline measurement, must be documented and retrievable.
b. To accommodate the sampling, the negative air pressure machine must be fitted with a 2 ft section of rigid ductwork at the discharge. The sample port for monitoring must be in the rigid ductwork section.
c. Vapor generating processes must be assessed and appropriate filtration must be installed to mitigate transmission to the facility.
d. Engineering must do a complete flow and pressure analysis and document the area to which the air is being discharged to ensure the flow and pressure relationships in that area are not being adversely impacted by the additional flow. Ideally, this is done as part of the construction package to ensure the design is implementable and no additional HVAC changes are required to accommodate the exhaust from the negative air equipment.
e. Install device on exterior of work containment to continually monitor negative pressurization. To ensure proper pressure is continuously maintained, the device(s) shall have a visual pressure indicator, data collection and alarm.
f. Exhaust must be directed to Low Risk areas as defined in Table 3 in this VHA ICRA template. Ideally this discharge must be located so as not to impinge on high traffic areas or create a nuisance with noise or excessive airflow.

NOTE: *Exhaust into shared or recirculating HVAC systems, or other shared exhaust systems (e.g., bathroom exhaust) is not acceptable.*



1 B406 PART FIRST FLOOR PLAN
1/4"= 1'-0"

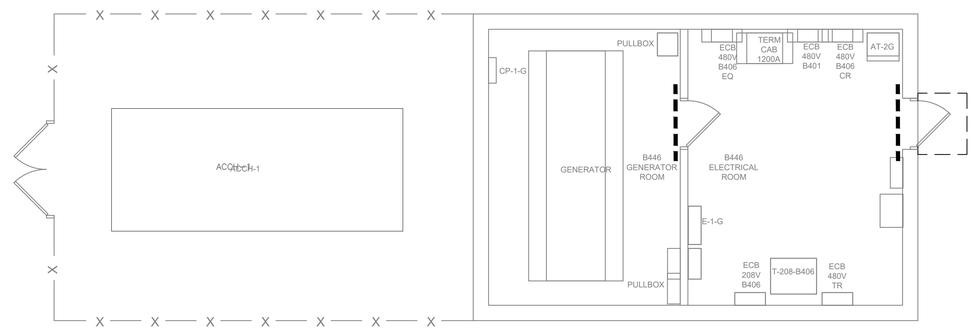
NORTH

INFECTION CONTROL GENERAL NOTES:

1. SEE SPECIFICATION SECTION 013526 FOR INFECTION CONTROL DESIGN REQUIREMENTS.
2. CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATION THAT ALL CONTRACT WORKERS ON SITE HAVE BEEN SCREENED FOR TUBERCULOSIS WITHIN 90 DAYS PRIOR TO ASSIGNMENT TO THE WORKSITE AND HAVE BEEN FOUND TO HAVE NEGATIVE SCREENING REACTIONS.
3. THE INTENT OF INFECTION CONTROL (IC) ISOLATION IS TO PROTECT PATIENTS IN THE HOSPITAL WHO HAVE LOW IMMUNE LEVELS. THEREFORE, CONSTRUCTION OPERATIONS NEED TO BE DIRECTED TO CONTAIN DUST AND PARTICULATE MATTER TO THE CONSTRUCTION AREA.
4. PROVIDE TRIATEK ISOLATION MONITORS DURING CLASS III OR CLASS IV CONSTRUCTION OPERATIONS. EACH AREA TO BE UNDER NEGATIVE PRESSURE (0.02"WC) DURING THESE OPERATIONS. MONITOR TO MEASURE PRESSURE DIFFERENTIAL BETWEEN CONSTRUCTION AREA AND ADJACENT CORRIDOR OR ROOM AS DIRECTED BY VA COR
5. DURING CONSTRUCTION OPERATIONS IN EACH ENCLOSED AREA USE TRIATEK ISOLATION MONITORS, MINIMUM (1) ONE IN AREAS LESS THAN 1000 SF, (2) TWO MINIMUM IN AREAS BETWEEN 1000 SF AND 5000 SF, AND (3) THREE FOR AREAS BETWEEN 5000 SF AND 10000 SF. CONTRACTOR SHALL PROVIDE EXISTING POWER CONNECTIONS FOR TRIATEK ISOLATION MONITORS OR PROVIDE TEMPORARY POWER TO TRIATEK ISOLATION MONITORS DURING CONSTRUCTION.
6. PROVIDE BALANCING DAMPER IN THE BRANCH SUPPLY & EXHAUST DUCT WORK SERVING THE AFFECTED AREA. TEMPORARILY BALANCE AIR FLOW TO PROVIDE NEGATIVE AIR FLOW IN CONSTRUCTION ZONE AT ALL TIMES AS INDICATED IN NOTE BELOW. DAMPERS TO REMAIN IN DUCT AFTER CONSTRUCTION IS COMPLETE AND IS TO BE SECURED IN FINAL BALANCING POSITION PRIOR TO TURNING SYSTEM OVER FOR OCCUPANCY.
7. THE CONTRACTOR SHALL PROVIDE ENOUGH NEGATIVE AIR MACHINES TO COMPLETELY EXCHANGE THE REGULATED AREA AIR VOLUME (4) FOUR ACTUAL TIMES PER HOUR. THE COMPETENT PERSON SHALL DETERMINE THE NUMBER OF UNITS NEEDED FOR EACH REGULATED AREA BY DIVIDING THE CUBIC FEET IN THE REGULATED AREA BY (15) FIFTEEN AND THEN DIVIDING THAT RESULT BY THE ACTUAL CUBIC FEET PER MINUTE (CFM) FOR EACH UNIT TO DETERMINE THE NUMBER OF UNITS NEEDED TO EFFECT (4) FOUR AIR CHANGES PER HOUR. PROVIDE A STANDBY UNIT IN THE EVENT OF MACHINE FAILURE AND/OR EMERGENCY IN AN ADJACENT AREA.
8. AS CONSTRUCTION PROGRESSES FROM TYPE D TO TYPE C (SEE SPECIFICATION SECTION 013526 "SAFETY REQUIREMENTS") AND THEREON, REQUEST A NEW "INFECTION CONTROL CONSTRUCTION PERMIT" FROM THE VA INFECTION CONTROL NURSE. UPON AUTHORIZATION, PROCEED TO NEXT TYPE OF CONSTRUCTION. PROVIDE AT LEAST 10 DAYS NOTICE FOR EACH PERMIT.
9. CONSTRUCT IC (INFECTION CONTROL) CONSTRUCTION BARRIER FROM FLOOR TO DECK/FLOOR ABOVE. SEE DETAILS THIS SHEET & SPECIFICATION SECTION 013526. EXCEPTION: IF BARRIER IS ADJACENT TO A SMOKE, FIRE, OR EXISTING WALL CONSTRUCTION WHICH WILL NOT BE DEMOLISHED AND TERMINATES TO FLOOR OR DECK ABOVE, THEN CONSTRUCT IC BARRIER FROM FLOOR TO ABOVE CORRIDOR CEILING WITH 6 MIL POLY BEING SEALED ON ALL EDGES: FLOOR, TOP OF WALL, SIDES, AND ALL PENETRATIONS.
10. GENERAL CONTRACTOR SHALL PROVIDE NEW CONSTRUCTION ACCESS DOORS AND KEYPAD LOCKS AT ALL BARRIERS. MAINTAIN ALL INFECTION CONTROL STANDARDS. CONTROL BARRIERS ARE TO BE INSTALLED AND REMOVED ONLY BEFORE 7:00 A.M. AND AFTER 8:00 P.M. IN OCCUPIED AREAS.
12. EGRESS IS TO BE MAINTAINED TO THE STAIRWELLS AT ALL TIMES.
13. PRIOR TO ANY REMOVAL OF SMOKE BARRIER FIRE RATED WALLS, CONSTRUCT NEW SMOKE BARRIER/APPROPRIATE FIRE RATED WALLS PER NEW PLANS OR CONSTRUCT INFECTION CONTROL BARRIER TO ACT AS SMOKE BARRIER.

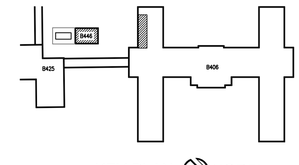
LEGEND

INFECTION CONTROL BARRIER PER CLASS REQUIREMENTS. SEE INFECTION CONTROL DESIGN NOTES THIS SHEET.



2 B446 FLOOR PLAN
1/4"= 1'-0"

NORTH



KEY PLAN NORTH

FULLY SPRINKLERED

100% BD DOCUMENT

Revisions:	Date

VETERANS AFFAIRS MEDICAL CENTER
500 E VETERANS ST
TOMAH, WI 54660

CONSULTANTS:

PROJECT LEADER:

PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title: GENERAL INFECTION CONTROL PLANS	Project Title: Connect B406 AHU-5 to Emergency Power	Project Number: 676-22-108	Office of Facilities Management
Approved: Project Director	Location: Tomah, Wisconsin	Building Number: 446/406	
	Date: November 20, 2025 / Checked By: HFB / Drawn By: KB	Drawing Number: GC102	Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

PHASING PLAN NOTES:

PHASE 1:

1. INSTALL THE TEMPORARY FENCING AND GATES.
2. INSTALL THE ENTRANCE TRACK PAD AND DOORS.
3. INSTALL THE EROSION CONTROL FENCING.

PHASE 2:

4. ALL COMPONENTS OF THE SWITCHGEAR/TRANSFER SWITCH, CONDUITS, SUPPORTS, CORING, PATCHING, AND SEALING, MUST BE ONSITE BEFORE ANY WORK BEGINS.
5. POTHOLE/DAYLIGHT TO CONFIRM LOCATION OF ANY UNDERGROUND PIPES, CONDUITS OR OTHER LOCATED UTILITY IN THE PATH OF THE NEW DUCTBANK.
6. AFTER CONFIRMATION OF THE UNDERGOUND UTILITY PATH EXCAVATION FOR THE NEW DUCTBANK MAY BEGIN. TRENCH AND PROVIDE THE INSTALL AS DETAILED ON C501 AND APPROVED THROUGH SUBMITTALS.

PHASE 3:

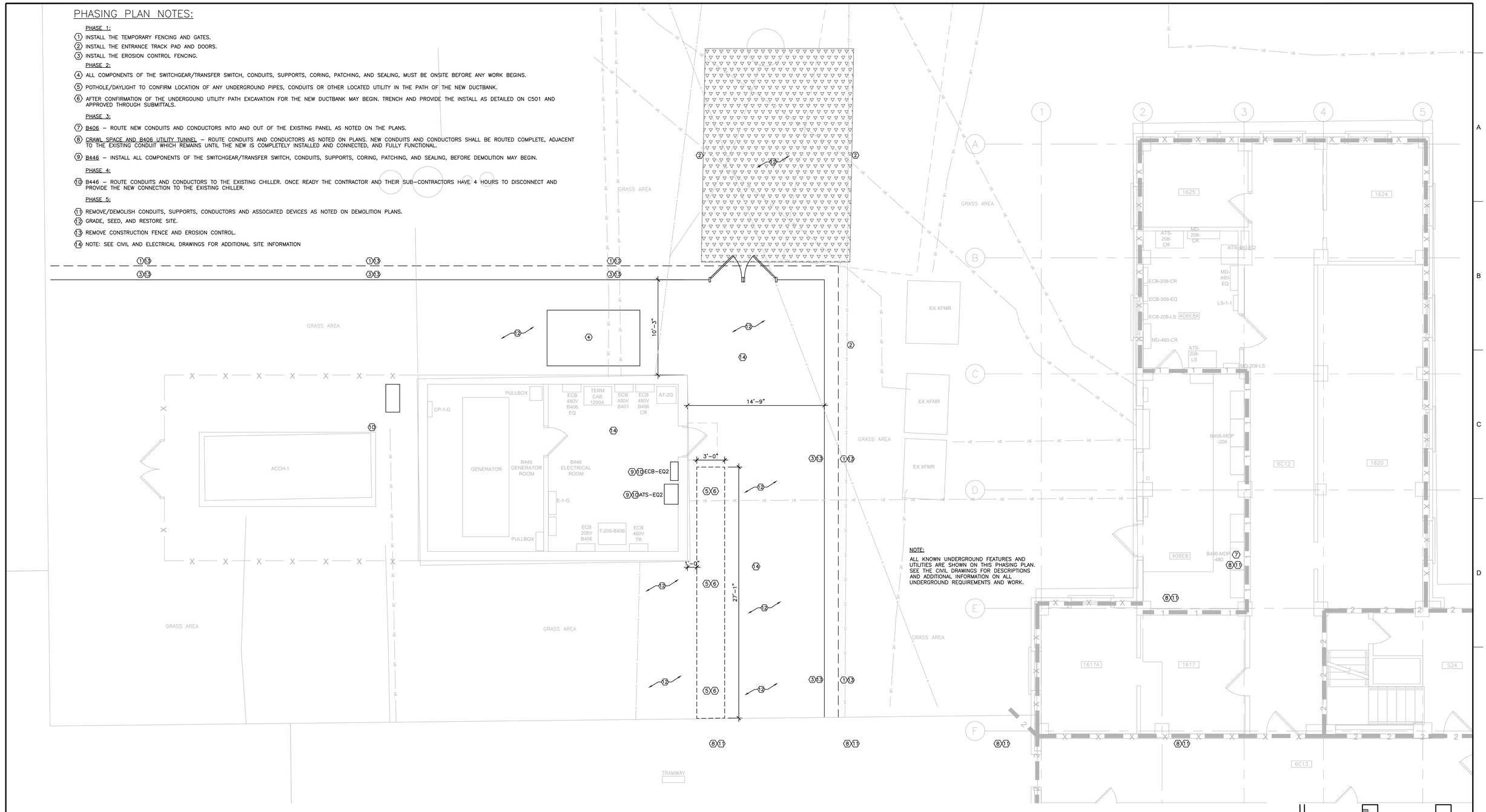
7. B406 – ROUTE NEW CONDUITS AND CONDUCTORS INTO AND OUT OF THE EXISTING PANEL AS NOTED ON THE PLANS.
8. CRAWL SPACE AND B406 UTILITY TUNNEL – ROUTE CONDUITS AND CONDUCTORS AS NOTED ON PLANS. NEW CONDUITS AND CONDUCTORS SHALL BE ROUTED COMPLETE, ADJACENT TO THE EXISTING CONDUIT WHICH REMAINS UNTIL THE NEW IS COMPLETELY INSTALLED AND CONNECTED, AND FULLY FUNCTIONAL.
9. B446 – INSTALL ALL COMPONENTS OF THE SWITCHGEAR/TRANSFER SWITCH, CONDUITS, SUPPORTS, CORING, PATCHING, AND SEALING, BEFORE DEMOLITION MAY BEGIN.

PHASE 4:

10. B446 – ROUTE CONDUITS AND CONDUCTORS TO THE EXISTING CHILLER. ONCE READY THE CONTRACTOR AND THEIR SUB–CONTRACTORS HAVE 4 HOURS TO DISCONNECT AND PROVIDE THE NEW CONNECTION TO THE EXISTING CHILLER.

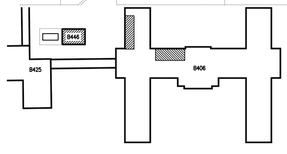
PHASE 5:

11. REMOVE/DEMOLISH CONDUITS, SUPPORTS, CONDUCTORS AND ASSOCIATED DEVICES AS NOTED ON DEMOLITION PLANS.
12. GRADE, SEED, AND RESTORE SITE.
13. REMOVE CONSTRUCTION FENCE AND EROSION CONTROL.
14. NOTE: SEE CIVIL AND ELECTRICAL DRAWINGS FOR ADDITIONAL SITE INFORMATION



1 FIRST FLOOR PLAN
1/4"= 1'-0"

NORTH



KEY PLAN NORTH

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Revisions:	Date

VETERANS AFFAIRS MEDICAL CENTER
500 E VETERANS ST
TOMAH, WI 54660

CONSULTANTS:

PROJECT LEADER:

PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title	GENERAL PHASING PLAN
Approved: Project Director	
Project Title	Connect B406 AHU-5 to Emergency Power
Location	Tomah, Wisconsin
Date	November 20, 2025
Checked By:	HFB
Drawn By:	SJS
Project Number	676-22-108
Building Number	446/406
Drawing Number	GC103

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

GENERAL NOTES:

1. CONTRACTOR SHALL ADHERE STRICTLY TO STATE AND FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS. A MINIMUM OF 10-HOUR OSHA TRAINING IS REQUIRED FOR ALL CONTRACT WORKERS ON SITE. TRAINING MUST BE CURRENT WITHIN THE LAST TWO YEARS.
2. CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATION THAT ALL CONTRACT WORKERS ON SITE HAVE BEEN SCREENED FOR TUBERCULOSIS WITHIN 90 DAYS PRIOR TO ASSIGNMENT TO THE WORK SITE AND HAVE BEEN FOUND TO HAVE NEGATIVE SCREENING REACTIONS.
3. ALL HOT WORK PERMITS MUST BE OBTAINED FROM THE VA FIRE DEPARTMENT. PERMIT IS VALID FOR ONE WEEK.
4. ALL DISTURBED GRASS SHALL BE RE-SODDED AT END OF THE CONSTRUCTION. ALL DAMAGED LAWN WILL BE OVERCUT BY 6" OR MORE TO ACCOMMODATE FULL WIDTH ROLLS OF SOD. CONTRACTOR SHALL PROVIDE 3" BROWN SIFTED TOPSOIL. TOPSOIL TO BE TILLED AND GRADED TO A SMOOTH MATCHING GRADE OF UNDAMAGED LAWN. SLOPE NEW GRADE AWAY FROM BUILDING 1A. SOD TO BE THOROUGHLY SATURATED WITH WATER UPON PLACEMENT. THE CONTRACTOR IS RESPONSIBLE FOR WATERING NEW SOD UNTIL PROJECT ACCEPTANCE BY THE COR.
5. CONSTRUCTION STAGING (LIMITS OF CONSTRUCTION) AREA SHALL BE COMPLETELY FENCED IN AND LOCKED DURING OFF HOURS. ADDITIONAL SPACE IF REQUIRED SHALL BE COORDINATED WITH THE VA CONSTRUCTION MANAGER.
6. THE CONTRACTOR SHALL PROVIDE PORTABLE RESTROOM FACILITIES FOR ALL CONTRACTOR AND SUB-CONTRACTORS USE THROUGHOUT THE DURATION OF THE PROJECT. FACILITY RESTROOM USE IS NOT ALLOWED BY ANY CONSTRUCTION PERSONNEL.
7. ALL CONSTRUCTION AREAS SHALL BE CLEANED DAILY.
8. ALL CONTRACTOR AND SUB-CONTRACTOR VEHICLES SHALL PARK IN THE DESIGNATED AREA.
9. ONE CONSTRUCTION TRAILER MAY BE PARKED IN THE DESIGNATED AREA PROVIDED BY THE VA. ELECTRICAL HOOK UP SHALL BE THE CONTRACTORS RESPONSIBILITY AND COORDINATED WITH THE VA CONSTRUCTION MANAGER. EACH CONNECTION SHALL BE METERED INDIVIDUALLY.
10. NO SANITARY OR WATER CONNECTIONS ALLOWED.
11. CONTRACTOR SHALL REPAIR ALL ROADWAY DAMAGED FROM CONSTRUCTION TO MATCH EXISTING CONDITIONS. RECORD EXISTING CONDITIONS BY DATED PHOTOGRAPH OF SITE.
12. CONTRACTOR TO ENSURE ALL FIRE HYDRANTS AROUND BUILDING ARE NOT BLOCKED OFF OR UNUSABLE.
13. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE VA AND A/E IMMEDIATELY.
14. THE UNDERGROUND UTILITY INFORMATION AS SHOWN HEREON IS BASED, UPON INFORMATION COLLECTED ON OCTOBER 31, 2025. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED OR CERTIFIED. GC TO PROVIDE VERIFICATION UTILITY LOCATING PRIOR TO ANY EARTH WORK.

LEGEND

96.5 / 96.0	CONTOUR LINE
93.6 OR 93.6	SPOT ELEVATION
	EXISTING ROADS TO REMAIN
CB OR SW	CATCH BASIN, STORMWATER INLET
	MANHOLE
E	ELECTRICAL MANHOLE
	ELECTRICAL HANDHOLE
	AREA-LIGHTING BASE
	SURVEY BASE LINE MONUMENT
	POINT OF INTERSECTION
	SURFACE ELEVATION
	DRAINAGE WAY OR DITCH
	DRAWING MATCH LINE
	CENTERLINE, BUILDING, ROAD, ETC.
	STAGING, STOCKPILE, AND PLAN HOLDING AREA LIMITS
OR	REMODELED EXISTING PLANT STRUCTURE
OR	NEW STRUCTURE-THIS CONTRACT PROPOSED STRUCTURE
NO.3	STRUCTURE NUMBER
	EXISTING TREES TO REMAIN
	POWER POLE WITH GUY SUPPORT
P	RELOCATED OVERHEAD POWER LINE
T T	UNDERGROUND TELEPHONE LINE
	GATE (SHOWN WITH FENCE TYPES ABOVE)
1000.0	EXISTING GRADE
1000.0	FINISH GRADE
	PI (POINT OF INTERSECTION)
35.7	VPI (VERTICAL POINT OF INTERSECTION) AND
	RADIAL POINT
TP1	TEST PIT
SB1	BORING LOCATION AND NUMBER
PZ1I	PIEZOMETER
	EXISTING UTILITY OR TELEPHONE POLE
	NEW UTILITY OR TELEPHONE POLE
	DI (DROP INLET)
	LIGHT STANDARD

	EXISTING STRUCTURE
	EXISTING AC PAVEMENT
	NEW AC PAVEMENT
	GRAVEL SHOULDER
	CONCRETE WALK
	DRAINAGE DITCH
	ROAD
	RAILROAD TRACKS
P/L	PROPERTY LINE
R/W	RIGHT-OF-WAY LINE
	EASEMENTS LINE
	CENTER LINE, BUILDING, ROAD, ETC.
	SURVEY REFERENCE LINE
X X	FENCE
	CONNECT TO EXISTING
NG NG NG NG NG	NATURAL GAS LINE
CW CW CW CW CW	WATER LINE
ST ST	STORM SEWER LINE
SAN SAN SAN SAN SAN	SANITARY SEWER LINE
E E E E E	UNDERGROUND ELECTRIC
COMM COMM COMM COMM COMM	COMMUNICATIONS LINE
T T T T T	TELEPHONE LINE
FO FO FO FO FO	FIBER OPTIC LINE
	DRAIN TILE
	TREES
	CONSTRUCTION LIMITS
	CONSTRUCTION FENCE
	SITE FENCE
	SILT FENCE
	EXISTING TO BE DEMOLISHED
	CONCRETE WALK
	CURB AND GUTTER
	PROJECT BUILDING IDENTIFICATION
	BOLLARD
	CONSTRUCTION ENTRANCE AND CONSTRUCTION PAD PROTECTION, SIMILAR TO PRESTO GEOSYSTEMS GEOTERRA GTO OR EQUAL. HIGH DENSITY POLYETHYLENE INTERLOCKING MATS FOR EXISTING SURFACE PROTECTION, APPROXIMATELY 17.5" x 36.5" x 2" THICK INDIVIDUAL MATS CAPABLE OF BOLTING TO EACH OTHER TO FORM A CONTINUOUS PAD.
	TREE PROTECTION FENCE
	FLOW ARROW
	INLET PROTECTION
	WASH OUT AREA
	LANDSCAPING PLANT(ER) AREA
	TRAFFIC SIGN/CONTROL POLE

NOTE:

THIS IS A STANDARD LEGEND SHEET. THEREFORE SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PLANS.

FULLY SPRINKLERED

100% BD DOCUMENT

Revisions:	Date

VETERANS AFFAIRS
MEDICAL CENTER
500 E VETERANS ST
TOMAH, WI 54660

CONSULTANTS:

PROJECT LEADER:

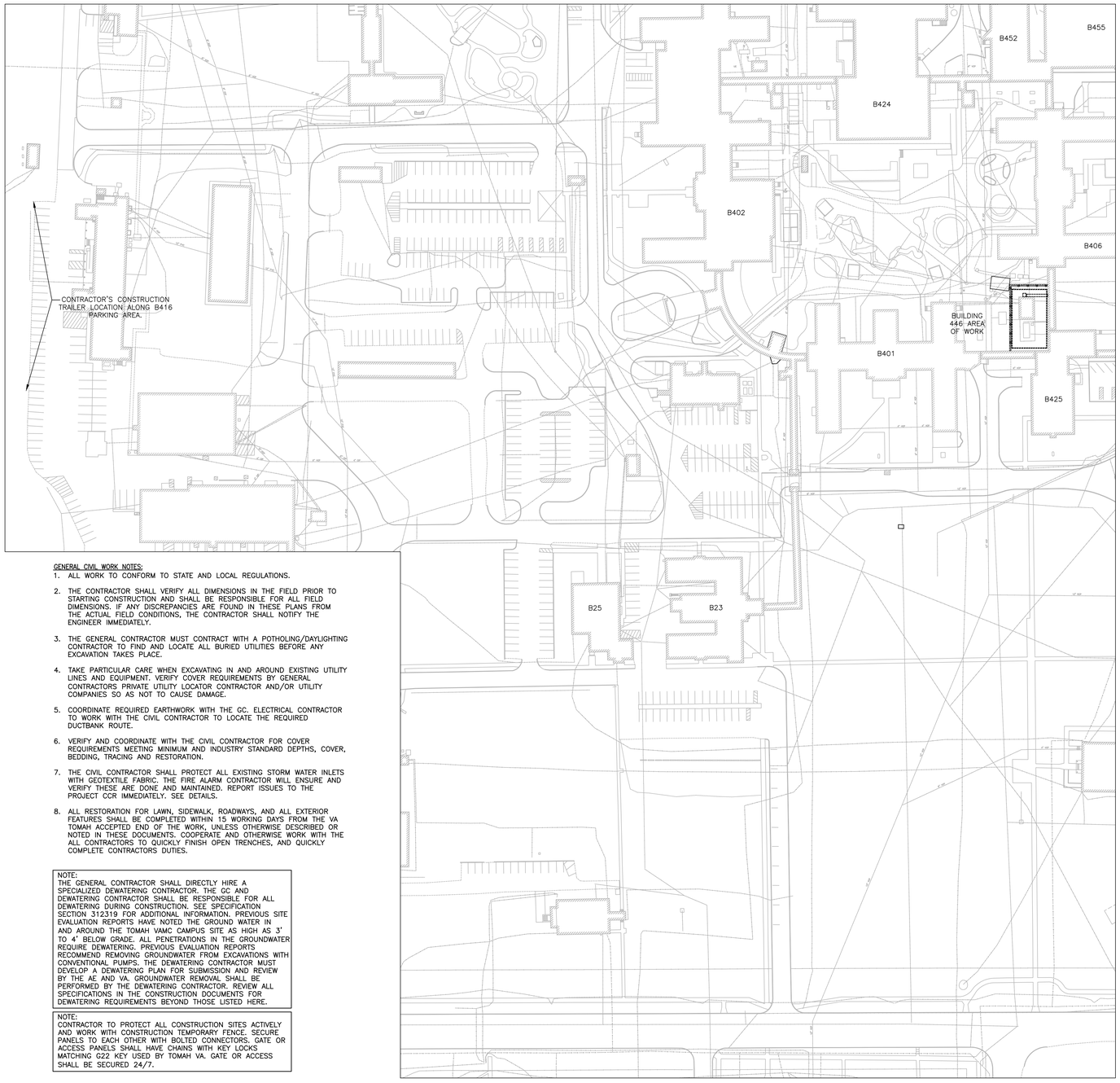
PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title	CIVIL LEGEND AND GENERAL NOTES
Project Title	Connect B406 AHU-5 to Emergency Power
Project Number	676-22-108
Building Number	
Approved: Project Director	
Location	Tomah, Wisconsin
Date	November 20, 2025
Checked By:	HFB
Drawn By:	JMD
Drawing Number	C001

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



GENERAL CIVIL WORK NOTES:

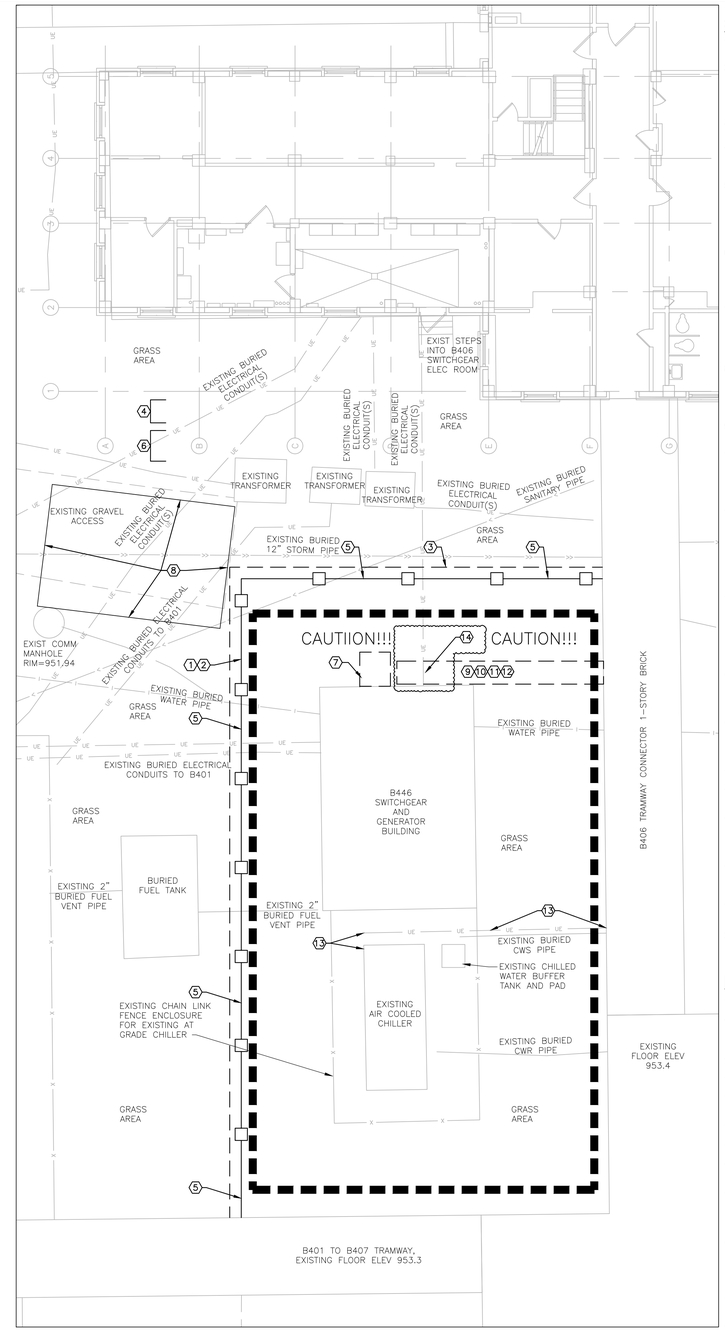
1. ALL WORK TO CONFORM TO STATE AND LOCAL REGULATIONS.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO STARTING CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
3. THE GENERAL CONTRACTOR MUST CONTRACT WITH A POTHOLING/DAYLIGHTING CONTRACTOR TO FIND AND LOCATE ALL BURIED UTILITIES BEFORE ANY EXCAVATION TAKES PLACE.
4. TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY GENERAL CONTRACTORS PRIVATE UTILITY LOCATOR CONTRACTOR AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
5. COORDINATE REQUIRED EARTHWORK WITH THE GC. ELECTRICAL CONTRACTOR TO WORK WITH THE CIVIL CONTRACTOR TO LOCATE THE REQUIRED DUCTBANK ROUTE.
6. VERIFY AND COORDINATE WITH THE CIVIL CONTRACTOR FOR COVER REQUIREMENTS MEETING MINIMUM AND INDUSTRY STANDARD DEPTHS, COVER, BEDDING, TRACING AND RESTORATION.
7. THE CIVIL CONTRACTOR SHALL PROTECT ALL EXISTING STORM WATER INLETS WITH GEOTEXTILE FABRIC. THE FIRE ALARM CONTRACTOR WILL ENSURE AND VERIFY THESE ARE DONE AND MAINTAINED. REPORT ISSUES TO THE PROJECT COR IMMEDIATELY. SEE DETAILS.
8. ALL RESTORATION FOR LAWN, SIDEWALK, ROADWAYS, AND ALL EXTERIOR FEATURES SHALL BE COMPLETED WITHIN 15 WORKING DAYS FROM THE VA TOMAH ACCEPTED END OF THE WORK, UNLESS OTHERWISE DESCRIBED OR NOTED IN THESE DOCUMENTS. COOPERATE AND OTHERWISE WORK WITH THE ALL CONTRACTORS TO QUICKLY FINISH OPEN TRENCHES, AND QUICKLY COMPLETE CONTRACTORS DUTIES.

NOTE:
THE GENERAL CONTRACTOR SHALL DIRECTLY HIRE A SPECIALIZED DEWATERING CONTRACTOR. THE GC AND DEWATERING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING DURING CONSTRUCTION. SEE SPECIFICATION SECTION 312319 FOR ADDITIONAL INFORMATION. PREVIOUS SITE EVALUATION REPORTS HAVE NOTED THE GROUND WATER IN AND AROUND THE TOMAH VAMC CAMPUS SITE AS HIGH AS 3' TO 4' BELOW GRADE. ALL PENETRATIONS IN THE GROUNDWATER REQUIRE DEWATERING. PREVIOUS EVALUATION REPORTS RECOMMEND REMOVING GROUNDWATER FROM EXCAVATIONS WITH CONVENTIONAL PUMPS. THE DEWATERING CONTRACTOR MUST DEVELOP A DEWATERING PLAN FOR SUBMISSION AND REVIEW BY THE AE AND VA. GROUNDWATER REMOVAL SHALL BE PERFORMED BY THE DEWATERING CONTRACTOR. REVIEW ALL SPECIFICATIONS IN THE CONSTRUCTION DOCUMENTS FOR DEWATERING REQUIREMENTS BEYOND THOSE LISTED HERE.

NOTE:
CONTRACTOR TO PROTECT ALL CONSTRUCTION SITES ACTIVELY AND WORK WITH CONSTRUCTION TEMPORARY FENCE. SECURE PANELS TO EACH OTHER WITH BOLTED CONNECTORS. GATE OR ACCESS PANELS SHALL HAVE CHAINS WITH KEY LOCKS MATCHING G22 KEY USED BY TOMAH VA. GATE OR ACCESS SHALL BE SECURED 24/7.

1 PARTIAL SITE PLAN
NTS

NORTH



2 WORK AREA SITE PLAN
1/8"= 1'-0"

NORTH

GENERAL NOTES:

1. REFER TO PHASING PLANS GC103. ALL WORK TO BE DONE IN ACCORDANCE WITH THE PHASES IDENTIFIED.
2. GENERAL CONTRACTOR TO REVIEW MECHANICAL, ELECTRICAL, AND ARCHITECTURAL PLANS FOR ADDITIONAL NEW WORK. ALL WORK FOR WALL, CEILING AND FLOOR ASSEMBLIES NECESSARY TO FACILITATE COMPLETE SYSTEM IS PART OF THE CONTRACTOR'S SCOPE OF WORK.
3. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL NEW CONSTRUCTION WORK.
4. MAINTAIN UTILITIES SERVICE TO ALL CAMPUS BUILDINGS AND ALL SPACES IN BUILDINGS. COORDINATE WITH VA COR FOR ANY DISRUPTION IN UTILITY SERVICES REQUIRED TO PERFORM WORK.
5. PLANS AND SECTIONS MAY NOT SHOW ALL REQUIRED PIPE, CONTROL, POWER AND SYSTEM CONNECTIONS, PUMPS, FANS, HVAC TERMINAL UNITS, CONTROL DEVICES AND VALVES. CONTRACTOR SHALL REFER TO MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DEMOLITION AND NEW PLANS, DETAILS, AND DIAGRAMS FOR CONNECTIONS TO EQUIPMENT.
6. PROVIDE 3 WEEK WRITTEN NOTICE TO THE VA COR AND CCR REPRESENTATIVES FOR ANY INTERRUPTION OF THE BUILDING UTILITIES, SYSTEMS OR RELATED SERVICES INCLUDING CONSTRUCTION RELATED ROAD CLOSURES OR CONFINED SPACE WORK.
7. CONTRACTOR SHALL ADHERE STRICTLY TO STATE AND FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS. A MINIMUM OF 10-HOUR OSHA TRAINING IS REQUIRED FOR ALL CONTRACT WORKERS ON SITE. TRAINING MUST BE CURRENT WITHIN THE LAST TWO YEARS.
8. CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATION THAT ALL CONTRACT WORKERS ON SITE HAVE BEEN SCREENED FOR TUBERCULOSIS WITHIN 90 DAYS PRIOR TO ASSIGNMENT TO THE WORK SITE AND HAVE BEEN FOUND TO HAVE NEGATIVE SCREENING REACTIONS.
9. ALL HOT WORK PERMITS MUST BE OBTAINED FROM THE VA FIRE DEPARTMENT. PERMIT IS VALID AS STATED ON FORM.
10. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO STARTING CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
11. THE GENERAL CONTRACTOR MAY CONTRACT WITH A PRIVATE UTILITY LOCATOR CONTRACTOR TO FIND AND LOCATE ALL BURIED UTILITIES. UNDERGROUND MAPPING PROVIDED IN THESE DOCUMENTS PERFORMED ON OCTOBER 31, 2025. LOCATIONS ARE NOT VERIFIED. THIS CONTRACTOR SHALL USE THE SERVICES OF A CONTRACTOR SPECIALIZING IN DAYLIGHTING OR POTHOLING TO VERIFY UNDERGROUND UTILITIES BEFORE EXCAVATION OR DIRECTIONAL BORING TAKES PLACE.
12. ALL RESTORATION FOR LAWN, SIDEWALK, ROADWAYS, AND ALL EXTERIOR FEATURES SHALL BE COMPLETED WITHIN 15 WORKING DAYS FROM THE VA TOMAH ACCEPTED END OF EACH DEFINABLE TASK OF WORK, UNLESS OTHERWISE DESCRIBED OR NOTED IN THESE DOCUMENTS. COOPERATE AND OTHERWISE WORK WITH THE ALL CONTRACTORS TO QUICKLY FINISH OPEN TRENCHES, AND QUICKLY COMPLETE CONTRACTORS DUTIES.
13. CONSTRUCTION STAGING (LIMITS OF CONSTRUCTION) AREA SHALL BE COMPLETELY FENCED IN AND LOCKED DURING OFF HOURS. ADDITIONAL SPACE IF REQUIRED SHALL BE COORDINATED WITH THE VA CONSTRUCTION MANAGER.
14. THE CONTRACTOR SHALL PROVIDE PORTABLE RESTROOM FACILITIES FOR ALL CONTRACTOR AND SUB-CONTRACTORS USE THROUGHOUT THE DURATION OF THE PROJECT. FACILITY RESTROOM USE IS NOT ALLOWED BY ANY CONSTRUCTION PERSONNEL.
15. ALL CONSTRUCTION AREAS SHALL BE CLEANED DAILY.
16. ALL CONTRACTOR AND SUB-CONTRACTOR VEHICLES SHALL PARK IN THE DESIGNATED AREA.
17. ONE CONSTRUCTION TRAILER MAY BE PARKED IN THE DESIGNATED AREA. NO SANITARY OR WATER CONNECTIONS ALLOWED. ELECTRICAL CONNECTION BY CONTRACTOR AND METERED SEPARATELY AND PAID FULLY BY THE CONTRACTOR.
18. CONTRACTOR SHALL REPAIR ALL ROADWAY DAMAGED FROM CONSTRUCTION TO MATCH EXISTING CONDITIONS. RECORD EXISTING CONDITIONS BY DATED PHOTOGRAPH OF SITE.
19. CONTRACTOR TO ENSURE ALL FIRE HYDRANTS AROUND BUILDING ARE NOT BLOCKED OFF OR UNUSABLE.
20. PARKING FOR CONSTRUCTION PERSONNEL IN DESIGNATED LOCATIONS PROVIDED AT THE CONSTRUCTION KICK-OFF METTING. CONTRACTORS AND SUB-CONTRACTORS MUST PARK ONLY IN THE DESIGNATED AREA FOR THE DURATION OF THE PROJECT.

KEYED NOTES:

1. CONSTRUCTION FENCE, SEE DETAIL 1 ON C501.
2. PROVIDE THE REQUIRED 6' WIDE FENCE OPENING WITH 2 PERSONNEL ACCESS GATES, NOT SHOWN, COORDINATE LOCATION WITH SAFETY REQUIREMENTS.
3. SILT FENCE, SEE DETAIL 7 ON DWG C501.
4. CONSTRUCTION SITE SIGN, SEE DETAIL 2 ON DWG C501.
5. CONSTRUCTION FENCE WARNING SIGN, SEE DETAIL 5 ON DWG C501.
6. CONSTRUCTION SAFETY SIGN, SEE DETAIL 8 ON DWG C501.
7. REMOVE EXISTING CONCRETE STOOP COMPLETE.
8. PROVIDE CONSTRUCTION TRACK PAD AND EROSION CONTROL. SEE DETAILS 4 AND 6 ON C501.
9. EXCAVATE FOR NEW DUCTBANK. THE CONTRACTOR IS REQUIRED TO HIRE THE SERVICES OF A POTHOLE/ DAYLIGHT CONTRACTOR TO VERIFY LOCATIONS SHOWN ON THE UNDERGROUND MAPPING PLAN BEFORE EXCAVATION BEGINS.
10. ELECTRICAL CONTRACTOR SHALL REMOVE THE EXISTING CONDUCTORS AFTER THE EXISTING CHILLER IS CONNECTED TO ITS NEW CONDUCTORS. ELECTRICAL CONTRACTOR TO PROVIDE A WATERTIGHT PLUG INSIDE B406 UTILITY TUNNEL AT THE EXISTING PULL BOX. BURIED CONDUIT IS NOW AN EMPTY SPARE.
11. PROVIDE TRENCH BOX. OPTIONAL: PROVIDE SHORING FOR EXCAVATION WORK.
12. SEE NOTES FOR REQUIRED DEWATERING AT ALL EXCAVATION WORK.
13. EX. BURIED CONDUIT WITH POWER FOR CHILLER, SEE ELECTRICAL DRAWINGS FOR REQUIREMENTS.
14. CONTRACTOR TO HAND DIG TO EXPOSED CONDUIT, DUCTBANK, AND EXISTING BURIED UTILITIES HERE.

FULLY SPRINKLERED

100% BD DOCUMENT

Revisions:	Date

VETERANS AFFAIRS MEDICAL CENTER
500 E VETERANS ST
TOMAH, WI 54660

CONSULTANTS:

PROJECT LEADER:

PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title: CIVIL PARTIAL SITE AND WORK AREA SITE PLANS - DEMOLITION

Approved: Project Director

Project Title: Connect B406 AHU-5 to Emergency Power

Location: Tomah, Wisconsin

Date: November 20, 2025 | Checked By: HFB | Drawn By: JMD

Project Number: 676-22-108

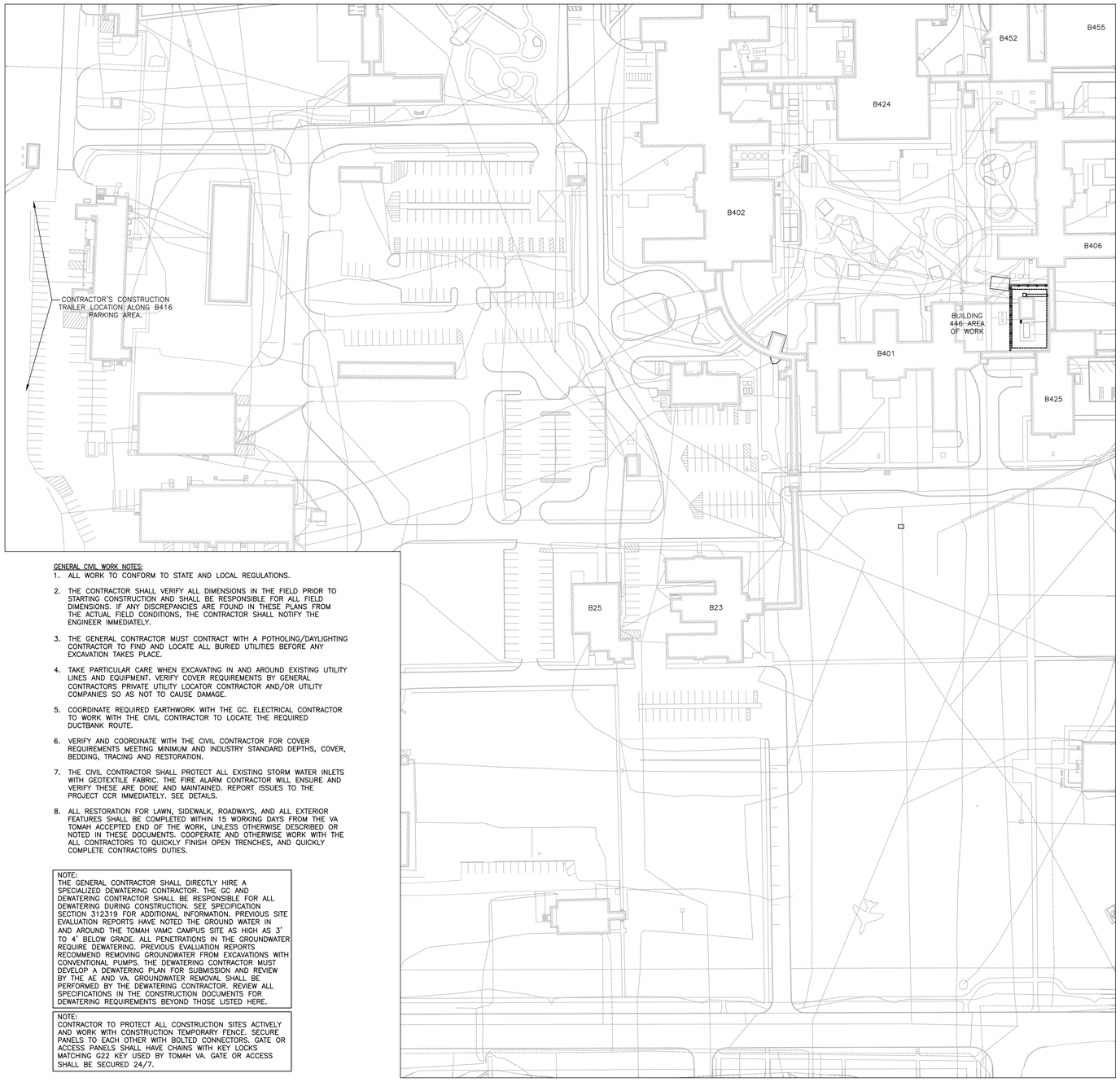
Building Number:

Drawing Number: CD101

Office of Facilities Management

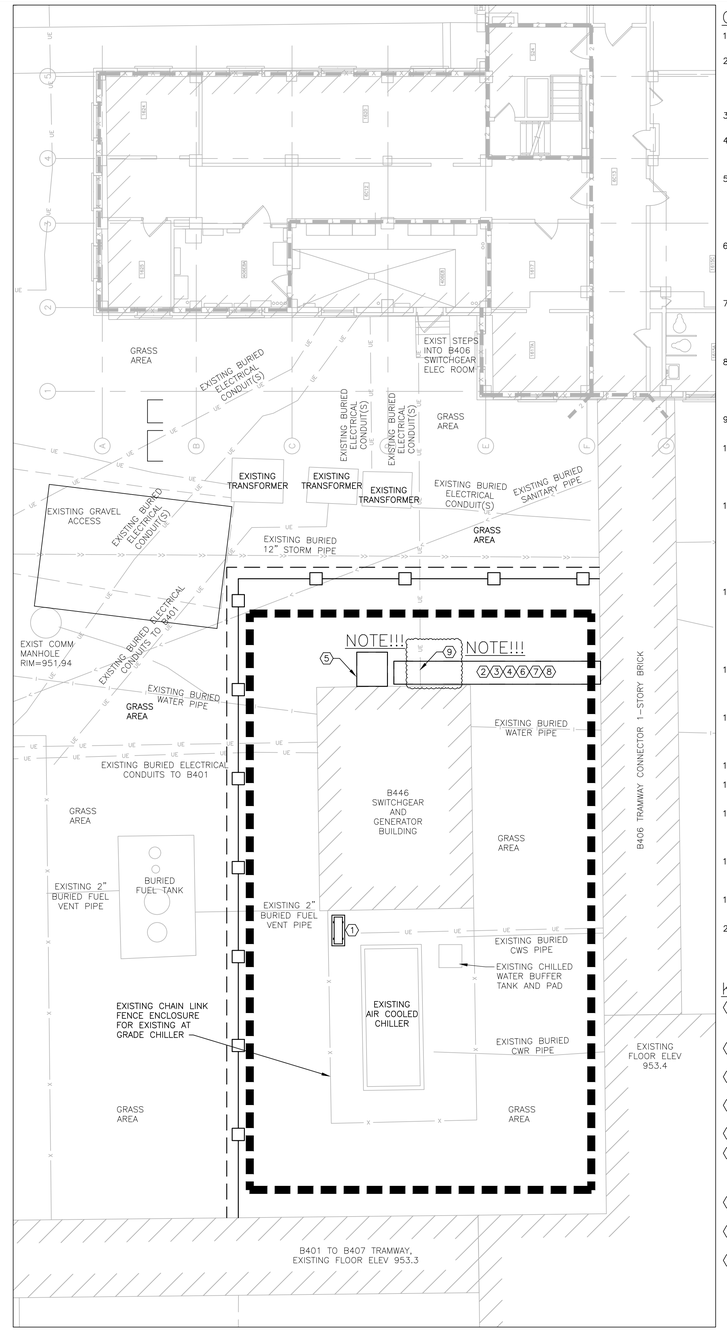
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 PARTIAL SITE PLAN
NTS

NORTH



2 WORK AREA SITE PLAN
1/8"= 1'-0"

NORTH

GENERAL CIVIL WORK NOTES:

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3. THE GENERAL CONTRACTOR MUST CONTRACT WITH A POTHOLING/DAYLIGHTING CONTRACTOR TO FIND AND LOCATE ALL BURIED UTILITIES BEFORE ANY EXCAVATION TAKES PLACE.
4. TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY GENERAL CONTRACTORS PRIVATE UTILITY LOCATOR CONTRACTOR AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
5. COORDINATE REQUIRED EARTHWORK WITH THE GC. ELECTRICAL CONTRACTOR TO WORK WITH THE CIVIL CONTRACTOR TO LOCATE THE REQUIRED DUCTBANK ROUTE.
6. VERIFY AND COORDINATE WITH THE CIVIL CONTRACTOR FOR COVER REQUIREMENTS MEETING MINIMUM AND INDUSTRY STANDARD DEPTHS, COVER, BEDDING, TRACING AND RESTORATION.
7. THE CIVIL CONTRACTOR SHALL PROTECT ALL EXISTING STORM WATER INLETS WITH GEOTEXTILE FABRIC. THE FIRE ALARM CONTRACTOR WILL ENSURE AND VERIFY THESE ARE DONE AND MAINTAINED. REPORT ISSUES TO THE PROJECT COR IMMEDIATELY. SEE DETAILS.
8. ALL RESTORATION FOR LAWN, SIDEWALK, ROADWAYS, AND ALL EXTERIOR FEATURES SHALL BE COMPLETED WITHIN 15 WORKING DAYS FROM THE VA TOMAH ACCEPTED END OF THE WORK, UNLESS OTHERWISE DESCRIBED OR NOTED IN THESE DOCUMENTS. COOPERATE AND OTHERWISE WORK WITH THE ALL CONTRACTORS TO QUICKLY FINISH OPEN TRENCHES, AND QUICKLY COMPLETE CONTRACTORS DUTIES.

NOTE:
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NOTE:
CONTRACTOR TO PROTECT ALL CONSTRUCTION SITES ACTIVELY AND WORK WITH CONSTRUCTION TEMPORARY FENCE. SECURE PANELS TO EACH OTHER WITH BOLTED CONNECTORS. GATE OR ACCESS PANELS SHALL HAVE CHAINS WITH KEY LOCKS MATCHING G22 KEY USED BY TOMAH VA. GATE OR ACCESS SHALL BE SECURED 24/7.

GENERAL NOTES:

1. REFER TO PHASING PLANS GC103. ALL WORK TO BE DONE IN ACCORDANCE WITH THE PHASES IDENTIFIED.
2. GENERAL CONTRACTOR TO REVIEW MECHANICAL, ELECTRICAL, AND ARCHITECTURAL PLANS FOR ADDITIONAL NEW WORK. ALL WORK FOR WALL, CEILING AND FLOOR ASSEMBLIES NECESSARY TO FACILITATE COMPLETE SYSTEM IS PART OF THE CONTRACTOR'S SCOPE OF WORK.
3. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL NEW CONSTRUCTION WORK.
4. MAINTAIN UTILITIES SERVICE TO ALL CAMPUS BUILDINGS AND ALL SPACES IN BUILDINGS. COORDINATE WITH VA COR FOR ANY DISRUPTION IN UTILITY SERVICES REQUIRED TO PERFORM WORK.
5. PLANS AND SECTIONS MAY NOT SHOW ALL REQUIRED PIPE, CONTROL, POWER AND SYSTEM CONNECTIONS, PUMPS, FANS, HVAC TERMINAL UNITS, CONTROL DEVICES AND VALVES. CONTRACTOR SHALL REFER TO MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DEMOLITION AND NEW PLANS, DETAILS, AND DIAGRAMS FOR CONNECTIONS TO EQUIPMENT.
6. PROVIDE 3 WEEK WRITTEN NOTICE TO THE VA COR AND CCR REPRESENTATIVES FOR ANY INTERRUPTION OF THE BUILDING UTILITIES, SYSTEMS OR RELATED SERVICES INCLUDING CONSTRUCTION RELATED ROAD CLOSURES OR CONFINED SPACE WORK.
7. CONTRACTOR SHALL ADHERE STRICTLY TO STATE AND FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS. A MINIMUM OF 10-HOUR OSHA TRAINING IS REQUIRED FOR ALL CONTRACT WORKERS ON SITE. TRAINING MUST BE CURRENT WITHIN THE LAST TWO YEARS.
8. CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATION THAT ALL CONTRACT WORKERS ON SITE HAVE BEEN SCREENED FOR TUBERCULOSIS WITHIN 90 DAYS PRIOR TO ASSIGNMENT TO THE WORK SITE AND HAVE BEEN FOUND TO HAVE NEGATIVE SCREENING REACTIONS.
9. ALL HOT WORK PERMITS MUST BE OBTAINED FROM THE VA FIRE DEPARTMENT. PERMIT IS VALID AS STATED ON FORM.
10. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO STARTING CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
11. THE GENERAL CONTRACTOR MAY CONTRACT WITH A PRIVATE UTILITY LOCATOR CONTRACTOR TO FIND AND LOCATE ALL BURIED UTILITIES. UNDERGROUND MAPPING PROVIDED IN THESE DOCUMENTS PERFORMED ON OCTOBER 31, 2025. LOCATIONS ARE NOT VERIFIED. THIS CONTRACTOR SHALL USE THE SERVICES OF A CONTRACTOR SPECIALIZING IN DAYLIGHTING OR POTHOLING TO VERIFY UNDERGROUND UTILITIES BEFORE EXCAVATION OR DIRECTIONAL BORING TAKES PLACE.
12. ALL RESTORATION FOR LAWN, SIDEWALK, ROADWAYS, AND ALL EXTERIOR FEATURES SHALL BE COMPLETED WITHIN 15 WORKING DAYS FROM THE VA TOMAH ACCEPTED END OF EACH DEFINABLE TASK OF WORK, UNLESS OTHERWISE DESCRIBED OR NOTED IN THESE DOCUMENTS. COOPERATE AND OTHERWISE WORK WITH THE ALL CONTRACTORS TO QUICKLY FINISH OPEN TRENCHES, AND QUICKLY COMPLETE CONTRACTORS DUTIES.
13. CONSTRUCTION STAGING (LIMITS OF CONSTRUCTION) AREA SHALL BE COMPLETELY FENCED IN AND LOCKED DURING OFF HOURS. ADDITIONAL SPACE IF REQUIRED SHALL BE COORDINATED WITH THE VA CONSTRUCTION MANAGER.
14. THE CONTRACTOR SHALL PROVIDE PORTABLE RESTROOM FACILITIES FOR ALL CONTRACTOR AND SUB-CONTRACTORS USE THROUGHOUT THE DURATION OF THE PROJECT. FACILITY RESTROOM USE IS NOT ALLOWED BY ANY CONSTRUCTION PERSONNEL.
15. ALL CONSTRUCTION AREAS SHALL BE CLEANED DAILY.
16. ALL CONTRACTOR AND SUB-CONTRACTOR VEHICLES SHALL PARK IN THE DESIGNATED AREA.
17. ONE CONSTRUCTION TRAILER MAY BE PARKED IN THE DESIGNATED AREA. NO SANITARY OR WATER CONNECTIONS ALLOWED. ELECTRICAL CONNECTION BY CONTRACTOR AND METERED SEPARATELY AND PAID FULLY BY THE CONTRACTOR.
18. CONTRACTOR SHALL REPAIR ALL ROADWAY DAMAGED FROM CONSTRUCTION TO MATCH EXISTING CONDITIONS. RECORD EXISTING CONDITIONS BY DATED PHOTOGRAPH OF SITE.
19. CONTRACTOR TO ENSURE ALL FIRE HYDRANTS AROUND BUILDING ARE NOT BLOCKED OFF OR UNUSABLE.
20. PARKING FOR CONSTRUCTION PERSONNEL IN DESIGNATED LOCATIONS PROVIDED AT THE CONSTRUCTION KICK-OFF METTING. CONTRACTORS AND SUB-CONTRACTORS MUST PARK ONLY IN THE DESIGNATED AREA FOR THE DURATION OF THE PROJECT.

KEYED NOTES:

1. 18" x 36" x 6" THICK CONCRETE EQUIPMENT PAD, TOP OF PAD 1" HIGHER THAN EXISTING CRUSHED STONE EQUIPMENT PAD. SEE DETAIL 1 ON A001.
2. COORDINATE WITH ELECTRICAL CONTRACTOR. EXCAVATE FOR NEW ELECTRICAL CONDUIT DUCT BANK.
3. SEE E501 DETAIL 2, 4-WAY DUCT LINE INSTALLATION REQUIRED.
4. RESTORE SITE WITHIN 10 DAYS OF DUCT LINE FINISH AND VA ACCEPTANCE.
5. PROVIDE NEW STOOP, SEE DETAIL 3 ON C501.
6. PROVIDE NEW DUCTBANK. THE CONTRACTOR IS REQUIRED TO HIRE THE SERVICES OF A POTHOLE/ DAYLIGHT CONTRACTOR TO VERIFY LOCATIONS SHOWN ON THE UNDERGROUND MAPPING PLAN BEFORE EXCAVATION BEGINS. SEE DETAIL 2 ON E501.
7. PROVIDE TRENCH BOX AT EXCAVATIONS. OPTIONAL: PROVIDE SHORING FOR EXCAVATION WORK.
8. SEE NOTES FOR REQUIRED DEWATERING AT ALL EXCAVATION WORK.
9. THE EXISTING SIZE, DEPTH, QUANTITIES OF THE NEWLY EXPOSED EXISTING DUCTBANK, CONDUITS, AND BURIED UTILITIES FOUND DURING HAND DIGGING SHALL BE SUBMITTED THROUGH A CONSTRUCTION RFI BY THE CONTRACTOR TO DETERMINE THE PATH AND DEPTH OF THE NEW DUCTBANK. DRAWING E501, DETAIL 2 REQUIRES 24" BURIED DEPTH TO TOP OF NEW DUCTBANK, DEPENDING ON SIZE, DEPTH, QUANTITY, AND TYPE OF EXPOSED UTILITIES THE SIZE AND DEPTH OF THE NEW DUCTBANK MAY BE ALTERED THROUGH THE CONTRACTOR'S SUBMITTED CONSTRUCTION RFI. SUBMISSION FOR THIS RFI IS REQUIRED.

FULLY SPRINKLERED

100% BD DOCUMENT

Revisions:	Date

VETERANS AFFAIRS MEDICAL CENTER
500 E VETERANS ST
TOMAH, WI 54660

CONSULTANTS:

PROJECT LEADER:

PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title: CIVIL PARTIAL SITE AND WORK AREA SITE PLANS - NEW WORK

Approved: Project Director

Project Title: Connect B406 AHU-5 to Emergency Power

Location: Tomah, Wisconsin

Date: November 20, 2025 | Checked By: HFB | Drawn By: JMD

Project Number: 676-22-108

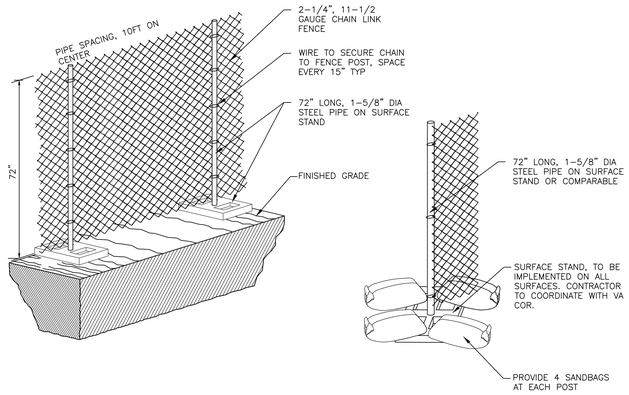
Building Number:

Drawing Number: C101

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

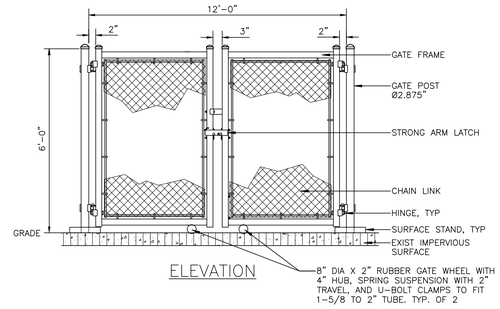


NOTE:

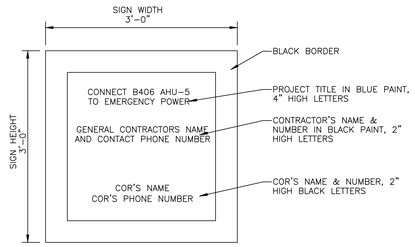
1. CHAIN LINK CONSTRUCTION FENCING IS TO BE INSTALLED PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
2. CHAIN LINK CONSTRUCTION FENCE SHALL BE A MINIMUM OF 72" ABOVE GRADE.
3. FENCE SHALL BE INSPECTED DAILY AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED FOR THE DAY. IF DAMAGED, FENCING SHALL BE REPAIRED IMMEDIATELY.
4. CHAIN LINK CONSTRUCTION FENCE IS SHOWN ON IMPERVIOUS SURFACES, SUCH AS THE EXISTING DRIVE AND PARKING AND GRASS AREAS. POST ARE TO BE ANCHORED ON SURFACE STANDS. STEEL PIPE IS NOT TO BE DRIVEN BELOW GRADE.

1 TEMPORARY CHAIN LINK FENCE DETAIL

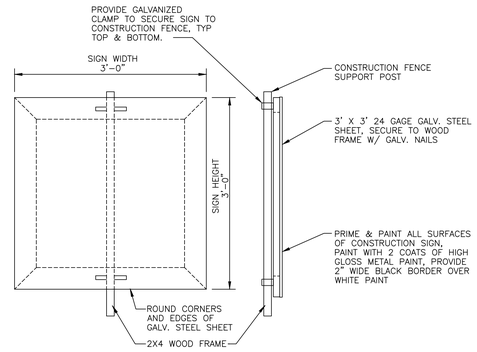
SCALE: NTS



ELEVATION



REQUIRED SIGN INFORMATION

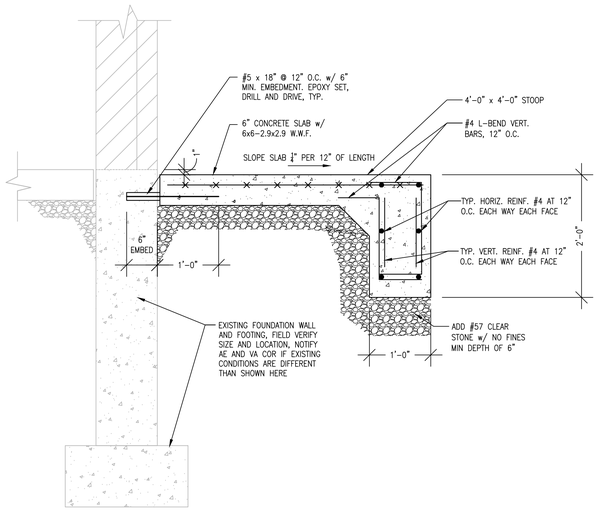


SIGN CONSTRUCTION & MOUNTING

NOTE:
SEE 1.29 OF SECTION 01 00 00 GENERAL REQUIREMENTS

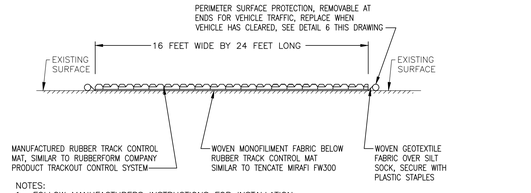
2 CONSTRUCTION SIGN DETAIL

SCALE: NTS



3 STOOP DETAIL

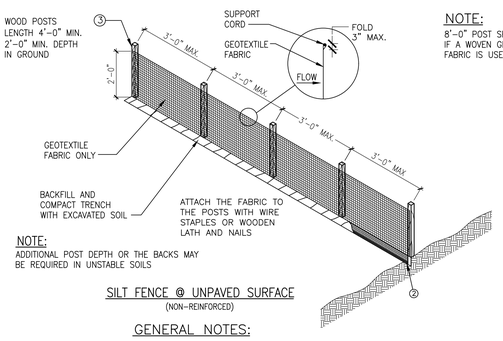
SCALE: NOT TO SCALE



NOTES:
1. FOLLOW MANUFACTURERS INSTRUCTIONS FOR INSTALLATION.
2. INSTALL SUCH THAT ALL RUN-OFF IS COLLECTED AND FILTERED.
3. DIRECT ALL VEHICLES EXITING SITE TO DRIVE OVER TRACK PAD.
4. REMOVE MUD, DIRT, STONE, AND ALL CONSTRUCTION RELATED MATERIAL FROM VEHICLE BEFORE EXITING CONSTRUCTION SITE.
5. CLEAN CONSTRUCTION SITE DAILY FOR ANY LOOSE MUD, DIRT, STONE OR CONSTRICTION MATERIAL.
6. A GEO-FABRIC BELOW 3" OF CRUSHED STONE MAY BE USED AS A TRACK PAD. REGARDLESS OF TYPE USED THE GC IS RESPONSIBLE FOR COMPLETE GROUND RESTORATION AND REPAIR AT THE COST OF THE GC.

4 CONSTRUCTION TRACK PAD DETAIL

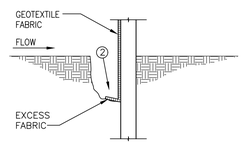
SCALE: NTS



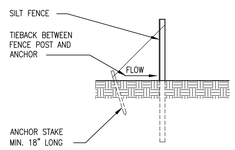
NOTE:
ADDITIONAL POST DEPTH OR THE BACKS MAY BE REQUIRED IN UNSTABLE SOILS

SILT FENCE @ UNPAVED SURFACE
(NON-REINFORCED)

NOTE:
8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

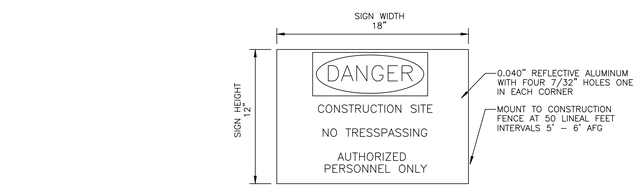
GENERAL NOTES:

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

1. HORIZONTAL BRACE WITH 2" x 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS AS DIRECTED BY THE ENGINEER.
2. TRENCH SHALL BE A MINIMUM OF 4" WIDE AND 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POST SHALL BE A MINIMUM SIZE OF 1 1/8" x 1 1/8" OF OAK OR HICKORY

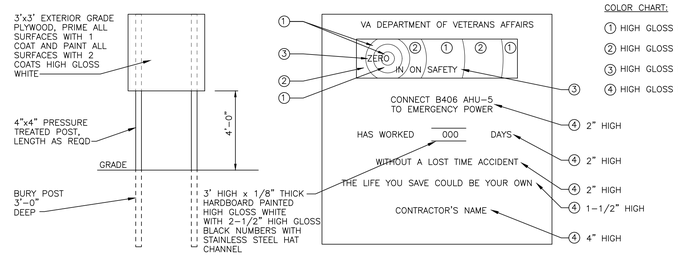
7 TEMPORARY SILT FENCE DETAIL

SCALE: NTS



5 WARNING SIGN DETAIL

SCALE: NTS



ELEVATION

ENLARGED VIEW

8 SAFETY SIGN DETAIL

SCALE: NTS

6 PERIMETER SURFACE EROSION CONTROL DETAIL

SCALE: NOT TO SCALE

FULLY SPRINKLERED

100% BD DOCUMENT

Revisions:	Date

VETERANS AFFAIRS MEDICAL CENTER
500 E VETERANS ST
TOMAH, WI 54660

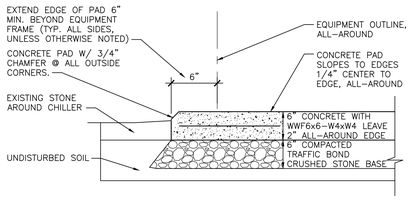
CONSULTANTS:

PROJECT LEADER:

PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title: CIVIL DETAILS	Project Title: Connect B406 AHU-5 to Emergency Power	Project Number: 676-22-108	Office of Facilities Management
Approved: Project Director	Location: Tomah, Wisconsin	Building Number	
	Date: November 20, 2025 / Checked By: HFB / Drawn By: JMD	Drawing Number: C501	Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 CONCRETE EQUIPMENT PAD DETAIL

1-1/2" = 1'-0"

LEGEND

- SMOKE TIGHT WALLS, 0 MIN. FIRE RESISTIVE
- 30 MINUTE FIRE RESISTIVE SMOKE BARRIER
- ONE HOUR FIRE RATING, 45 MINUTE "C" LABEL DOORS
- TWO HOUR FIRE RATING, 90 MINUTE "B" LABEL DOORS
- EXISTING WALLS TO REMAIN
- EXISTING WALLS TO BE REMOVED
- NEW WALL / PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- EXISTING DOOR AND FRAME TO BE REMOVED
- 100.3 NEW DOOR AND FRAME
- EXISTING ITEM TO REMAIN
- EXISTING ITEM TO BE REMOVED
- 1 KEYED NOTE
- DTL. SHT SECTION REFERENCE
- DTL. SHT DETAIL REFERENCE
- DTL. SHT INTERIOR ELEVATION
- A5 WALL TYPE / PARTITION TYPE
- CHR1 EQUIPMENT TAG
- CR CARD READER
- IC INTERCOM
- PP DOOR OPERATOR PUSH PLATE (FURNISHED BY DIVISION 08, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR)
- 2'-0" x 2'-0" SUSPENDED EXPOSED GRID ACOUSTIC CEILING TILE SYSTEM
- RETURN, TRANSFER, EXHAUST GRILLE
- SUPPLY GRILLE
- RECESSED LIGHT FIXTURE, SIZED AS SHOWN
- STRIP/INDUSTRIAL FIXTURE, SIZED AS SHOWN
- SURFACE-MOUNTED LIGHT
- RECESSED DOWN LIGHT
- EXIT SIGN, WALL MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN.
- EXIT SIGN, CEILING MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN.
- GYPSUM BOARD CEILING OR BULKHEAD
- 0'-0" CEILING HEIGHT

ABBREVIATIONS

A	AIR (MEDICAL)
AC	ACOUSTICAL CEILING
ACS DR	ACCESS DOOR
ACS PNL	ACCESS PANEL
ACST	ACOUSTIC
ACT	ACOUSTIC CEILING TILE
ADA	AMERICAN WITH DISIBILITIES ACT
ADDL	ADDITIONAL
ADH	ADHESIVE
ADO	AUTOMATIC DOOR OPERATOR
ADJ	ADJACENT, ADJOINING, OR ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AMT	AMOUNT
ANOD	ANODIZED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATELY
ARCH	ARCHITECT
ASB	ASBESTOS
ATTD	ATTACHED
AUTO	AUTOMATIC
AUX	AUXILIARY
AVG	AVERAGE
AWT	ACOUSTICAL WALL TREATMENT
B	BASE
BD	BOARD
BEJ	BRICK EXPANSION JOINT
BF	BARRIER FREE
BITUM	BITUMINOUS
BKG	BACKING
BLDG	BUILDING
BLKT	BLANKET
BM	BEAM OR BENCHMARK
BOT	BOTTOM
BRCG	BRACING
BRG	BEARING
BRKT	BRACKET
BSMT	BASEMENT
BTWN	BETWEEN
CAB	CABINET
CB	CATCH BASIN OR CORNER BEAD
CC	CUBICLE CURTAIN
CCT	CUBICLE CURTAIN TRACK
CCTV	CLOSED CIRCUIT TELEVISION
CCW	COUNTERCLOCKWISE
CD	CONSTRUCTION DOCUMENTS OR CONTRACT DOCUMENTS
CF	CONTRACTOR FURNISHED
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED
CFM	CUBIC FEET PER MINUTE
CFMF	COLD-FORMED METAL FRAMING
CG	CORNER GUARD
CHK	CHECK
CIP	CAST IN PLACE
CIR	CIRCLE
CJ	CONSTRUCTION JOINT OR CONTROL JOINT
CL	CENTER LINE
CLDG	CLADDING
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR
CLR HT	CLEAR HEIGHT
CMU	CONCRETE MASONRY UNIT
CNR	CORNER
CNTR	COUNTER
COL	COLUMN
COMB	COMBINATION, COMBINED
COMM	COMMUNICATION
CONC	CONCRETE
COND	CONDITION
CONF	CONFERENCE
CONN	CONNECT
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CPT	CARPET
CR	CARD READER
CRS	COURSE
CSG	CASING
CSWK	CASEWORK
CT	CERAMIC TILE
CTR	CENTER
CTRL	CONTROL
CURT	CURTAIN
CYL	CYLINDER
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DN	DOWN
DOC	DOCUMENT
DR	DOOR
DR FR	DOOR FRAME
DR OPNG	DOOR OPENING
DS	DOWNSPOUT
DWG	DRAWING
DWG	DOWEL
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EP	ELECTRICAL PANEL
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
EWS	EYE WASH STATION
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WALL HEATER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION OR EXPOSED
EXT	EXTERIOR
FA	FIRE ALARM
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FESR	FIRE EXTINGUISHER, SEMI-RECESSED
FF	FINISH FACE, FINISH FLOOR
FF EL	FINISH FLOOR ELEVATION
FF&E	FURNITURE, FIXTURE, AND EQUIPMENT
FHP	FULL HEIGHT PARTITION
FIN	FINISH
FIXT	FIXTURE
FLASH	FLASHING
FLR	FLOOR
FO	FINISH OPENING
FP	FIRE PROTECTION OR FIREPROOF
FR	FIRE RATING, FIRE RESISTANT, OR FRAME
FRP	FIBER REINFORCED POLYESTER, OR FIBERGLASS REINFORCED PLASTIC
FT	FEET
FTG	FOOTING
FURN	FURNISH OR FURNITURE
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GEN	GENERAL
GL	GLASS
GR	GROUT
GYP BD	GYPSUM BOARD
H	HIGH OR HEIGHT
HAZ MAT	HAZARDOUS MATERIALS
HD	HAND DRYER, HEAD OR HARD
HDWR	HARDWARE
HEPA	HIGH EFFICIENCY PARTICULATE AIR (FILTER)
HM	HOLLOW METAL
HNDRL	HANDRAIL
HO	HOLD OPEN
HORIZ	HORIZONTAL
HOSP	HOSPITAL
HSKPG	HOUSEKEEPING
HPC	HIGH PERFORMANCE COATING
HR	HOUR
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
HVAC	HEATING, VENTILATING, AIR CONDITIONING
IBC	INTERNATIONAL BUILDING CODE
ID	IDENTIFICATION
IG	INSULATING GLASS
INCL	INCLUDED, INCLUDING
INSUL	INSULATION
INT	INTERIOR
IRWC	IMPACT RESISTANT WALL COVERING
JAN	JANITOR
JT	JOINT
KD	KNOCKED-DOWN
KO	KNOCK(ED)-OUT
L	ANGLE
LAB	LABORATORY
LAM	LAMINATE(D)
LAM GL	LAMINATED GLASS
LAV	LAVATORY
LED	LIGHT EMITTING DIODE
LH	LEFT HAND
LIN	LINEAR
LKR	LOCKER
LKR RM	LOCKER ROOM
LL	LEAD LINED, LOWER LEVEL
LRG	LARGE
LT	LIGHT
LTWT	LIGHTWEIGHT
LTG	LIGHTING
LVR	LOUVER
LYR	LAYER
MACH	MACHINE
MAINT	MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MICRO	MICROWAVE
MIN	MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
MLWK	MILLWORK
MO	MASONRY OPENING
MON	MONITOR
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MTR	METER
N	NORTH
NA	NOT APPLICABLE
NEG	NEGATIVE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
O	OXYGEN (MEDICAL)
OC	ON CENTER
OD	OUTSIDE DIAMETER, OUTSIDE DIMENSION
OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED
OFD	OVERFLOW DRAIN
OFF	OFFICE
OF/OI	OWNER FURNISHED/OWNER INSTALLED
OPNG	OPENING
OPP	OPPOSITE
OPR	OPERABLE
OPT	OPTIONAL
ORD	OVERFLOW ROOF DRAIN
ORIG	ORIGINAL
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PART	PARTIAL
PASS	PASSAGE
PB	PUSHBUTTON
PE	POURED EPOXY
PERF	PERFORATED
PERIM	PERIMETER
PL	PLATE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PP	PUSH PLATE
PPT	PARAPET
PR	PAIR
PRCST	PRECAST
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PREP	PREPARATION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PWR	POWER
QT	QUARRY TILE
QTR	QUARTER
QTY	QUANTITY
R	RADIUS OR RISER
RB	RESILIENT BASE
RD	ROOF DRAIN
RCP	REFLECTED CEILING PLAN
REC	RECESSED
RECPT	RECEPTACLE
REF	REFRIGERATOR OR REFERENCE
REINF	REINFORCED, REINFORCEMENT
REPL	REPLACE
REQD	REQUIRED
REV	REVISION
RF	RESILIENT FLOORING
RFG	ROOFING
RH	RIGHT HAND
RLG	RAILING
RM	ROOM
RO	ROUGH OPENING
RT	RESILIENT TILE
RV	ROOF VENT
SC	SHARPS CONTAINER, SPECIAL COATING
SCHD	SCHEDULE
SCONC	SEALED CONCRETED
SCWD	SOLID CORE WOOD DOOR
SD	SOAP DISPENSER
SECT	SECTION
SEP	SEPARATE
SF	SQUARE FOOT (FEET)
SHT	SHEET
SGL	SINGLE
SHR	SHOWER
SHV	SHELVING
SIM	SIMILAR
SLD	SOLID SURFACE
SLNT	SEALANT
SM	SHEET METAL
SND	SANITARY NAPKIN DISPENSER/DISPOSAL
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SPLY	SUPPLY
SQ	SQUARE
SST	STAINLESS STEEL
SSM	SOLID SURFACING MATERIAL
ST	STONE
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STN	STAIN
STOR	STORAGE
STRUCT	STRUCTURE OR STRUCTURAL
SURF	SURFACE
SUSP	SUSPENDED
SV	SHEET VINYL
T	TREAD
TEL	TELEPHONE
TEMP	TEMPERED OR TEMPORARY
TH	THICK(NESS)
THERM	THERMAL
TLT	TOILET
TOB	TOP OF BEAM
TOF	TOP OF FOOTING
TOM	TOP OF MASONRY
TOS	TOP OF SLAB OR TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TRTD	TREATED
TS	TUBE STEEL
TV	TELEVISION OR TV OUTLET
TWC	TACKABLE WALL COVERING
TYP	TYPICAL
U	HEAT TRANSFER COEFFICIENT
UC	UNDERCOUNTER OR CABINET
UL	UNDERWRITERS LABORATORIES
UNEXC	UNEXCAVATED
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
V	VACUUM (MEDICAL)
VAC	VACUUM
VAR	VARIES
VCT	VINYL COMPOSITION TILE
VENT	VENTILATION
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	WIDE OR WEST
W/	WITH
W/O	WITHOUT
WC	WALL COVERING OR WATER CLOSET
WD	WOOD
WDW	WINDOW
WDWK	WOODWORK
WF	WIDE FLANGE
WLD	WELDED
WM	WIRE MESH
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
X BRACE	CROSS BRACE
XPS	EXTRUDED POLYSTYRENE BOARD
YD	YARD

GENERAL NOTES

1. VERIFY EXISTING CONDITIONS AND LOCATIONS IN FIELD PRIOR TO SUBMITTING PROPOSAL. FAILURE TO DO SO SHALL NOT RELIEVE THIS CONTRACTOR FROM PERFORMING THE WORK REQUIRED UNDER THIS CONTRACT.
2. ALL SUB-CONTRACTORS ARE ENCOURAGED TO VISIT AND ATTEND A PRE-BID WALK THRU TO INSPECT THE EXISTING AREA AND THOROUGHLY FAMILIARIZE THEMSELVES WITH THE ACTUAL JOB CONDITIONS BEFORE SUBMITTING BID.
3. WHILE THE SIZE AND LOCATION OF NEW WORK AND EQUIPMENT IN THE EXISTING AREA HAS BEEN INDICATED ON THE DRAWINGS AS ACCURATELY AS POSSIBLE, CONTRACTOR SHALL ADJUST HIS WORK AS REQUIRED TO AVOID EXISTING UTILITIES, FIRE ALARM, ROOF DRAINS, ACCESS COVERS, AND OTHER STRUCTURES NOT PARTICULARLY SHOWN ON PLAN AT NO EXTRA COST. BEFORE CONSTRUCTION, INSPECT PREMISES AND MAKE A DETAILED EXAMINATION OF ALL LOCATIONS WHERE NEW WORK IS TO BE INSTALLED. EXAMINE EXISTING PIPING, CONDUITS, STRUCTURAL SUPPORTING BEAMS, AND OTHER CONDITIONS.
4. ACCESS TO ALL BUILDINGS AND PARKING AREAS MUST BE MAINTAINED THROUGHOUT THE PROJECT.
5. CONTRACTOR IS TO COORDINATE ALL WORK WITH THE VA'S CONTRACTING OFFICER'S REPRESENTATIVE (COR)
6. DO NOT INTERFERE WITH EXISTING BUILDING'S MECHANICAL, ELECTRICAL, AND SECURITY SYSTEM OPERATIONS. IF IT IS NECESSARY TO SHUT DOWN FACILITY SYSTEMS AT ANY TIME, CONSULT VA COR TO MAKE ARRANGEMENTS TO DO SO DURING OFF-HOUR WORKING PERIODS AT THE VA'S CONVENIENCE. PRIOR NOTICE SHALL BE GIVEN TO THE VA AND ARCHITECT/ENGINEER (15) DAYS IN ADVANCE OF THE DESIRED SHUT-DOWN TIME. ANY PREMIUM OR OVERTIME COSTS NECESSARY TO ACCOMPLISH THE ABOVE SHALL BE INCLUDED IN THIS BID. FAILURE TO PROCEED WITHOUT PROPER PRIOR NOTIFICATION MAY RESULT IN THE ASSESSMENT OF A CREDIT TO THE CONTRACT.
7. CONTRACTOR SHALL ADHERE STRICTLY TO STATE AND FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.
8. CONTRACTOR SHALL PARK ONLY IN THE DESIGNATED PARKING AREAS AND ARE NOT TO PARK ON THE LAWN AREAS; THE ONLY EXCEPTION IS TO LOAD AND UNLOAD SUPPLIES OR EQUIPMENT.
9. CONTRACTOR IS RESPONSIBLE FOR THE SAFEGUARDING OF THEIR TOOLS AND EQUIPMENT. ALL TOOLS AND EQUIPMENT ARE NOT TO BE LEFT UNATTENDED AND ARE TO BE SECURED AT ALL TIMES WHEN THE CONTRACTOR IS NOT PRESENT.
10. CONTRACTOR MUST CONTROL DEMOLITION AND CONSTRUCTION DUST FROM FACILITY BY ERECTING A DUST BARRIER AND VENTILATION WITH HEPA FILTERS. IF VENTING TO OUTSIDE, THE CONTRACTOR WILL INSURE NEGATIVE AIR PRESSURE IS MAINTAINED IN ENCAPSULATED WORK AREA. WHEN TRANSPORTING DEBRIS, WET DOWN SUFFICIENTLY TO PREVENT DUST SPREADING.
11. IF SCAFFOLDING IS USED, IT MUST BE USED IN ACCORDANCE WITH (OSHA) REGULATIONS AND IS TO BE ENCLOSED FOR THE FIRST EIGHT FEET ABOVE GROUND AT END OF EACH WORKING DAY, UNTIL DISMANTLED. LADDERS MUST BE REMOVED AND LOCKED UP AT THE END OF EACH WORKING DAY TO PREVENT UNAUTHORIZED PERSONS FROM HAVING ACCESS.
12. ALL CRANE LIFT OPERATIONS MUST HAVE A LIFT PLAN DRAWING AND AN OUTAGE SCHEDULE TO ALLOW THE VA TO EVACUATE TWO FLOORS BELOW LIFT SWING ARC.
13. PROTECT ALL EXISTING SURFACES FROM DAMAGE. ANY DAMAGED SURFACES SHALL BE REPLACED TO MATCH ORIGINAL ITEM, OR REPAIRED TO MATCH EXISTING OR ADJACENT MATERIAL AS APPROVED BY THE VA COR.
14. CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND REPLACING ANY DAMAGED LAWN. THE RESTORATION WILL BE PERFORMED BY A LANDSCAPE CONTRACTOR THAT REGULARLY DOES SODDING AS PART OF THEIR BUSINESS. ALL DAMAGED LAWN WILL BE OVERCUT BY 6" OR MORE TO ACCOMMODATE FULL WIDTH ROLLS OF SOD. TOPSOIL TO BE TILLED AND GRADED TO A SMOOTH MATCHING GRADE OF UNDAMAGED LAWN. SOD TO BE THOROUGHLY SATURATED WITH WATER UPON PLACEMENT. THE CONTRACTOR IS RESPONSIBLE FOR WATERING NEW SOD UNTIL PROJECT ACCEPTANCE BY THE COR.
15. CLEAN ALL DEBRIS FROM CONSTRUCTION SITE TO THE SATISFACTION OF THE VA COR.
16. WORK HOURS:
    DAYTIME – NORMAL WORK THAT DOES NOT CREATE VIBRATION, LOUD NOISE OR ODORS OR REQUIRE LOADING DOCK / TRUCK SPACE.
    8 PM – 6 AM – WORK REQUIRING OUTAGES, TRUCK SPACE / CRANES.
    WEEKENDS – WORK THAT CREATES LOUD NOISE, VIBRATIONS, ODORS, OUTAGES AND/OR TRUCK SPACE / CRANES.

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Revisions:	Date

VETERANS AFFAIRS MEDICAL CENTER
500 E VETERANS ST
TOMAH, WI 54660

CONSULTANTS:

PROJECT LEADER:

PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title: ARCHITECTURAL LEGENDS, ABBREVIATIONS, AND NOTES

Approved: Project Director

Project Title: Connect B406 AHU-5 to Emergency Power

Location: Tomah, Wisconsin

Date: November 20, 2025 | Checked By: HFB | Drawn By: KAB

Project Number: 676-22-108

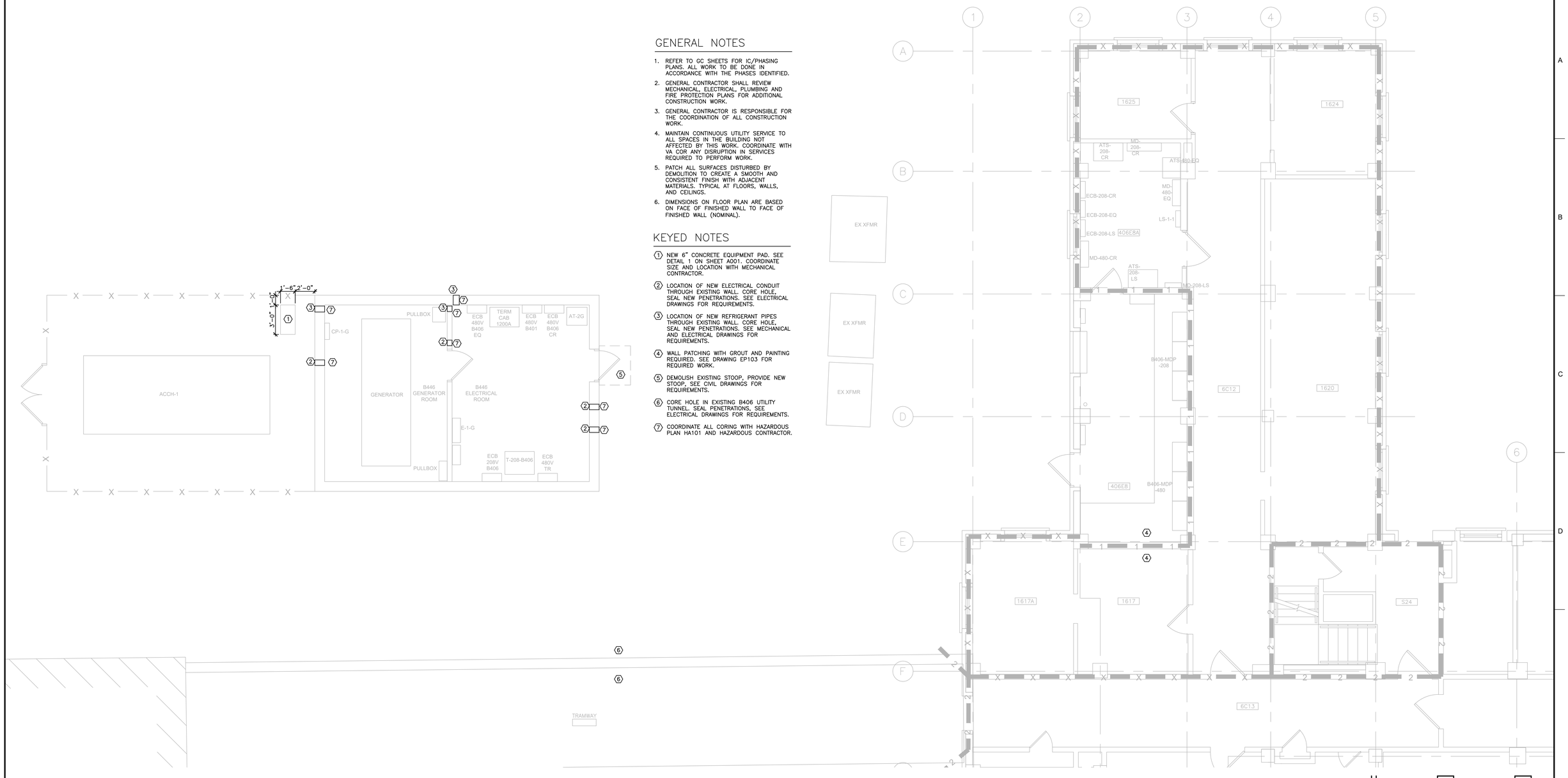
Building Number:

Drawing Number: A001

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



GENERAL NOTES

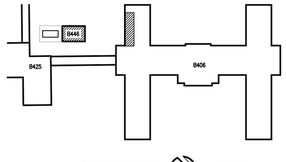
1. REFER TO GC SHEETS FOR IC/PHASING PLANS. ALL WORK TO BE DONE IN ACCORDANCE WITH THE PHASES IDENTIFIED.
2. GENERAL CONTRACTOR SHALL REVIEW MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION PLANS FOR ADDITIONAL CONSTRUCTION WORK.
3. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL CONSTRUCTION WORK.
4. MAINTAIN CONTINUOUS UTILITY SERVICE TO ALL SPACES IN THE BUILDING NOT AFFECTED BY THIS WORK. COORDINATE WITH VA COR ANY DISRUPTION IN SERVICES REQUIRED TO PERFORM WORK.
5. PATCH ALL SURFACES DISTURBED BY DEMOLITION TO CREATE A SMOOTH AND CONSISTENT FINISH WITH ADJACENT MATERIALS. TYPICAL AT FLOORS, WALLS, AND CEILINGS.
6. DIMENSIONS ON FLOOR PLAN ARE BASED ON FACE OF FINISHED WALL TO FACE OF FINISHED WALL (NOMINAL).

KEYED NOTES

1. NEW 6" CONCRETE EQUIPMENT PAD. SEE DETAIL 1 ON SHEET A001. COORDINATE SIZE AND LOCATION WITH MECHANICAL CONTRACTOR.
2. LOCATION OF NEW ELECTRICAL CONDUIT THROUGH EXISTING WALL. CORE HOLE, SEAL NEW PENETRATIONS. SEE ELECTRICAL DRAWINGS FOR REQUIREMENTS.
3. LOCATION OF NEW REFRIGERANT PIPES THROUGH EXISTING WALL. CORE HOLE, SEAL NEW PENETRATIONS. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR REQUIREMENTS.
4. WALL PATCHING WITH GROUT AND PAINTING REQUIRED. SEE DRAWING EP103 FOR REQUIRED WORK.
5. DEMOLISH EXISTING STOOP, PROVIDE NEW STOOP, SEE CIVIL DRAWINGS FOR REQUIREMENTS.
6. CORE HOLE IN EXISTING B406 UTILITY TUNNEL. SEAL PENETRATIONS, SEE ELECTRICAL DRAWINGS FOR REQUIREMENTS.
7. COORDINATE ALL CORING WITH HAZARDOUS PLAN HA101 AND HAZARDOUS CONTRACTOR.

1 FIRST FLOOR PLAN
1/4"= 1'-0"

NORTH



KEY PLAN NORTH

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Revisions:	Date

VETERANS AFFAIRS
MEDICAL CENTER
500 E VETERANS ST
TOMAH, WI 54660

CONSULTANTS:

PROJECT LEADER:

PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
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Drawing Title: ARCHITECTURAL B446/B406 PARTIAL FIRST FLOOR PLANS - NEW WORK

Approved: Project Director

Project Title: Connect B406 AHU-5 to Emergency Power

Location: Tomah, Wisconsin

Date: November 20, 2025 | Checked By: HFB | Drawn By: KAB

Project Number: 676-22-108

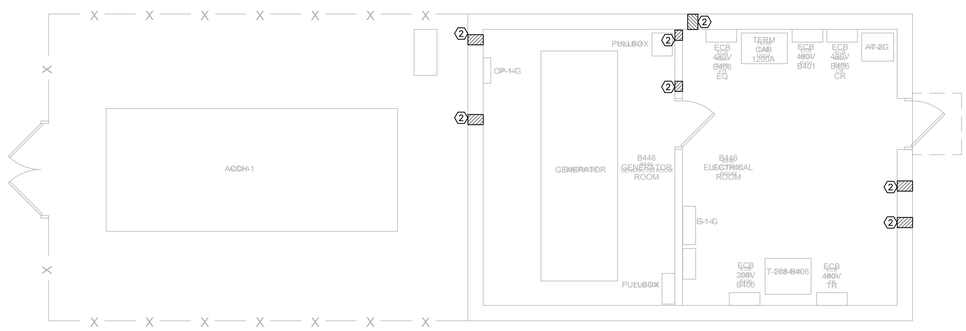
Building Number: 446/406

Drawing Number: A101

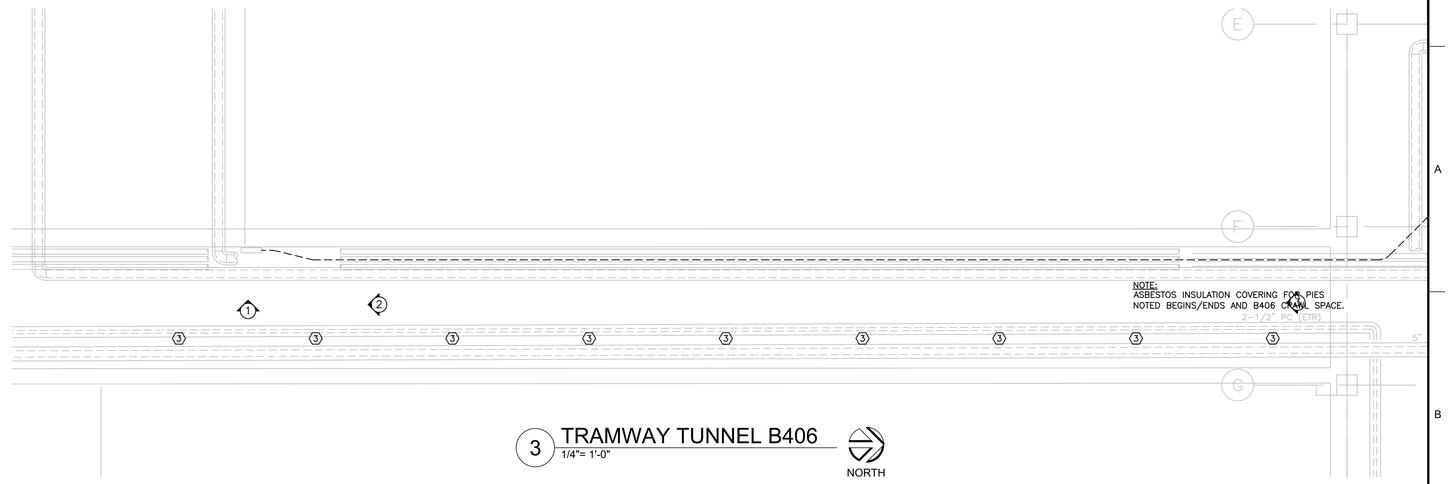
Office of Facilities Management

Department of Veterans Affairs

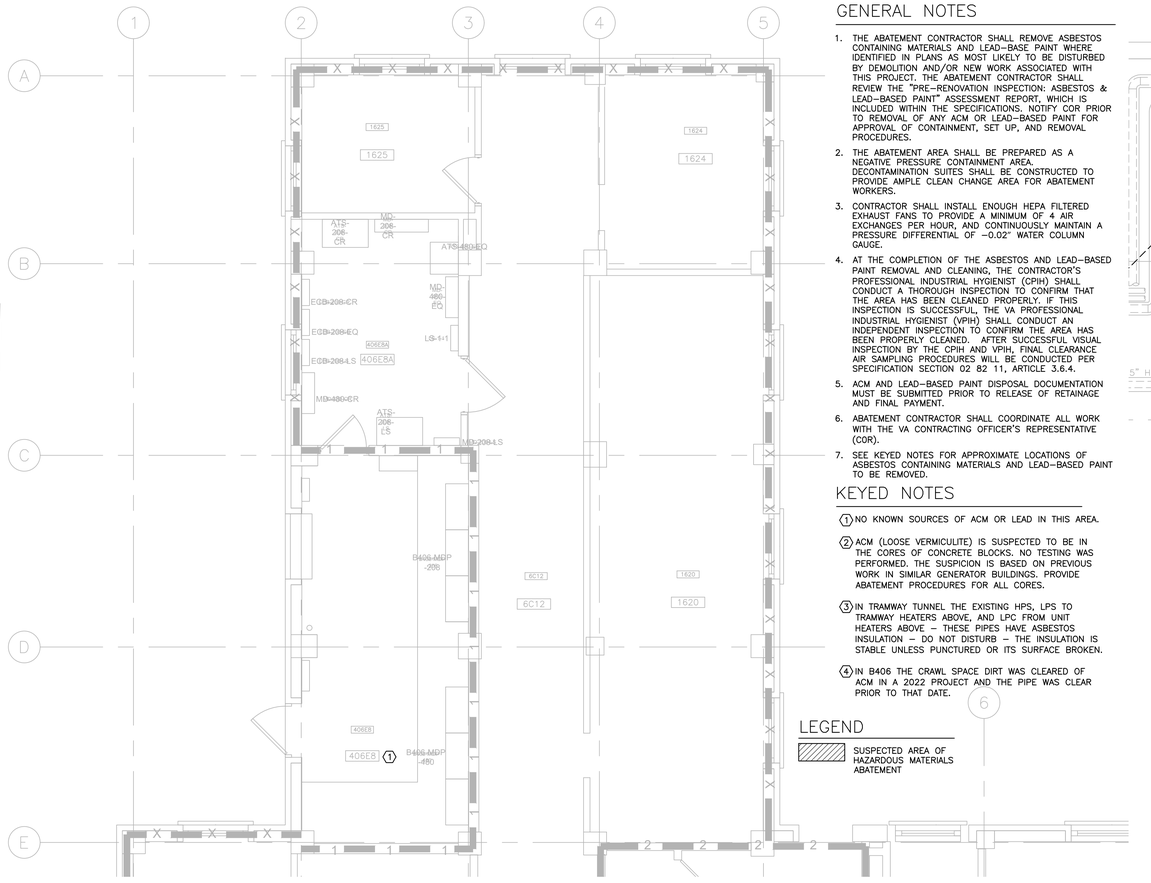
VA FORM 08-6231, OCT 1978



1 FIRST FLOOR PLAN - B446
1/4"= 1'-0"
NORTH



3 TRAMWAY TUNNEL B406
1/4"= 1'-0"
NORTH



2 PARTIAL FIRST FLOOR PLAN - B406
1/4"= 1'-0"
NORTH

GENERAL NOTES

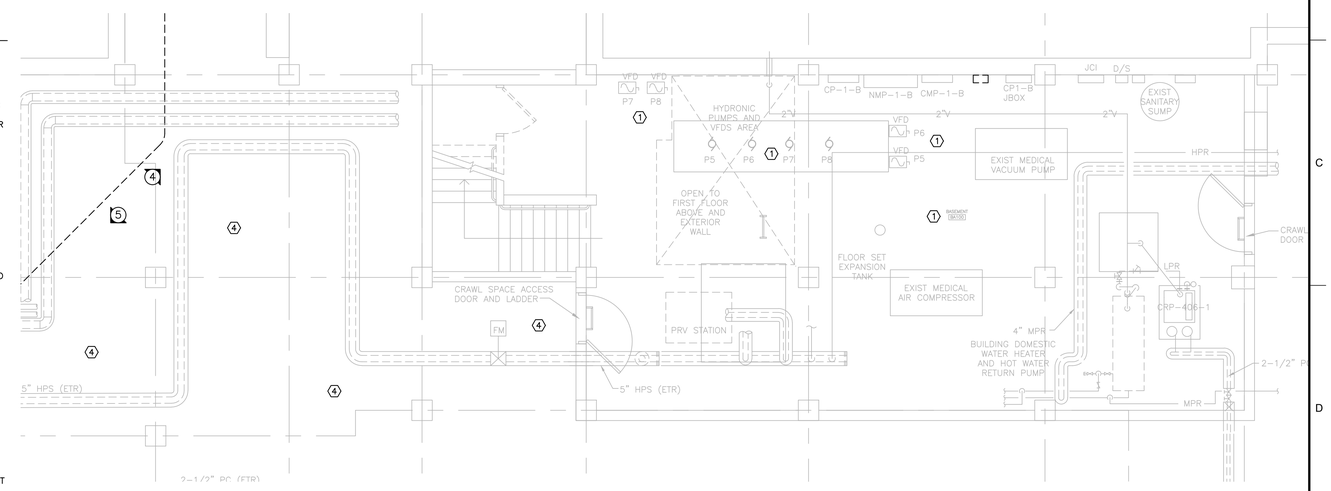
1. THE ABATEMENT CONTRACTOR SHALL REMOVE ASBESTOS CONTAINING MATERIALS AND LEAD-BASE PAINT WHERE IDENTIFIED IN PLANS AS MOST LIKELY TO BE DISTURBED BY DEMOLITION AND/OR NEW WORK ASSOCIATED WITH THIS PROJECT. THE ABATEMENT CONTRACTOR SHALL REVIEW THE "PRE-RENOVATION INSPECTION: ASBESTOS & LEAD-BASED PAINT" ASSESSMENT REPORT, WHICH IS INCLUDED WITHIN THE SPECIFICATIONS. NOTIFY COR PRIOR TO REMOVAL OF ANY ACM OR LEAD-BASED PAINT FOR APPROVAL OF CONTAINMENT, SET UP, AND REMOVAL PROCEDURES.
2. THE ABATEMENT AREA SHALL BE PREPARED AS A NEGATIVE PRESSURE CONTAINMENT AREA. DECONTAMINATION SUITES SHALL BE CONSTRUCTED TO PROVIDE AMPLE CLEAN CHANGE AREA FOR ABATEMENT WORKERS.
3. CONTRACTOR SHALL INSTALL ENOUGH HEPA FILTERED EXHAUST FANS TO PROVIDE A MINIMUM OF 4 AIR EXCHANGES PER HOUR, AND CONTINUOUSLY MAINTAIN A PRESSURE DIFFERENTIAL OF -0.02" WATER COLUMN GAUGE.
4. AT THE COMPLETION OF THE ASBESTOS AND LEAD-BASED PAINT REMOVAL AND CLEANING, THE CONTRACTOR'S PROFESSIONAL INDUSTRIAL HYGIENIST (CPIH) SHALL CONDUCT A THOROUGH INSPECTION TO CONFIRM THAT THE AREA HAS BEEN CLEANED PROPERLY. IF THIS INSPECTION IS SUCCESSFUL, THE VA PROFESSIONAL INDUSTRIAL HYGIENIST (VPIH) SHALL CONDUCT AN INDEPENDENT INSPECTION TO CONFIRM THE AREA HAS BEEN PROPERLY CLEANED. AFTER SUCCESSFUL VISUAL INSPECTION BY THE CPIH AND VPIH, FINAL CLEARANCE AIR SAMPLING PROCEDURES WILL BE CONDUCTED PER SPECIFICATION SECTION 02 82 11, ARTICLE 3.6.4.
5. ACM AND LEAD-BASED PAINT DISPOSAL DOCUMENTATION MUST BE SUBMITTED PRIOR TO RELEASE OF RETAINAGE AND FINAL PAYMENT.
6. ABATEMENT CONTRACTOR SHALL COORDINATE ALL WORK WITH THE VA CONTRACTING OFFICER'S REPRESENTATIVE (COR).
7. SEE KEYED NOTES FOR APPROXIMATE LOCATIONS OF ASBESTOS CONTAINING MATERIALS AND LEAD-BASED PAINT TO BE REMOVED.

KEYED NOTES

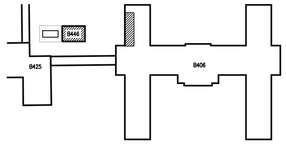
1. NO KNOWN SOURCES OF ACM OR LEAD IN THIS AREA.
2. ACM (LOOSE VERMICULITE) IS SUSPECTED TO BE IN THE CORES OF CONCRETE BLOCKS. NO TESTING WAS PERFORMED. THE SUSPICION IS BASED ON PREVIOUS WORK IN SIMILAR GENERATOR BUILDINGS. PROVIDE ABATEMENT PROCEDURES FOR ALL CORES.
3. IN TRAMWAY TUNNEL THE EXISTING HPS, LPS TO TRAMWAY HEATERS ABOVE, AND LPC FROM UNIT HEATERS ABOVE – THESE PIPES HAVE ASBESTOS INSULATION – DO NOT DISTURB – THE INSULATION IS STABLE UNLESS PUNCTURED OR ITS SURFACE BROKEN.
4. IN B406 THE CRAWL SPACE DIRT WAS CLEARED OF ACM IN A 2022 PROJECT AND THE PIPE WAS CLEAR PRIOR TO THAT DATE.

LEGEND

SUSPECTED AREA OF HAZARDOUS MATERIALS ABATEMENT



4 CRAWL SPACE AND MECHANCIAL ROOM B406
1/4"= 1'-0"
NORTH



KEY PLAN NORTH

FULLY SPRINKLERED

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Revisions:	Date

VETERANS AFFAIRS MEDICAL CENTER
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CONSULTANTS:

PROJECT LEADER:

PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
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Drawing Title	HAZARDOUS MATERIALS OVER-ALL FLOOR PLANS
Approved: Project Director	
Project Title	Connect B406 AHU-5 to Emergency Power
Location	Tomah, Wisconsin
Date	November 20, 2025
Checked By:	HFB
Drawn By:	KAB
Project Number	676-22-108
Building Number	446/406
Drawing Number	HA101

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

LEGEND

- HPS — HIGH PRESSURE STEAM (60 PSIG AND ABOVE)
- HPR — HIGH PRESSURE STEAM CONDENSATE RETURN
- MPS — MEDIUM PRESSURE STEAM (16 PSIG THRU 59 PSIG)
- MPR — MEDIUM PRESSURE STEAM CONDENSATE RETURN
- LPS — LOW PRESSURE STEAM (15 PSIG AND BELOW)
- LPR — LOW PRESSURE STEAM CONDENSATE RETURN
- PC — CONDENSATE PUMP DISCHARGE
- HWS — HOT WATER HEATING SUPPLY
- HWR — HOT WATER HEATING RETURN
- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION
- RHG — REFRIGERANT HOT GAS
- CHS — CHILLED WATER SUPPLY
- CHR — CHILLED WATER RETURN
- GCS — CHILLED GLYCOL–WATER SUPPLY
- GCR — CHILLED GLYCOL–WATER RETURN
- MW — MAKE–UP WATER
- D — DRAIN LINE
- V — VENT LINE
- X — EXISTING PIPE TO BE REMOVED
- DIRECTION OF PIPE PITCH (DOWN)
- DIRECTION OF FLOW
- ANCHOR
- REDUCER OR INCREASER
- ECCENTRIC REDUCER
- TOP CONNECTION, 45° OR 90°
- BOTTOM CONNECTION, 45° OR 90°
- SIDE CONNECTION
- CAPPED OUTLET
- RISE OR DROP IN PIPE
- UNION
- PIPE UP
- PIPE DOWN
- INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES SEE DETAIL
- FLOAT & THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES SEE DETAIL
- THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES SEE DETAIL
- PIPE GUIDE
- THERMOMETER
- PRESSURE GAGE
- FE — FLOW ELEMENT
- REFRIGERANT SIGHT GLASS
- TEST PLUG (PRESSURE/TEMPERATURE)
- AV — AUTOMATIC AIR VENT
- MV — MANUAL AIR VENT
- REFRIGERANT FILTER DRYER
- REFRIGERANT SOLENOID VALVE
- REFRIGERANT THERMAL EXPANSION VALVE (TXV)
- GATE VALVE – THREADED/FLANGED
- GLOBE VALVE – THREADED/FLANGED
- GATE VALVE WITH 3/4" HOSE ADAPTER
- CHECK VALVE
- WYE STRAINER
- FLEXIBLE CONNECTION
- ANGLE GLOBE VALVE
- BUTTERFLY VALVE
- BALL VALVE
- MODULATING CONTROL VALVE
- MODULATING CONTROL BUTTERFLY VALVE
- TWO POSITION CONTROL VALVE
- THREE–WAY MODULATING CONTROL VALVE
- THREE–WAY TWO POSITION CONTROL VALVE
- PRESSURE REGULATING VALVE
- PRESSURE SAFETY VALVE
- AUTOMATIC BALANCING CONTROL VALVE
- WATER BALANCE DEVICE
- CIRCUIT SETTER VALVE
- GATE VALVE WITH GLOBE–VALVED BYPASS
- PLUG VALVE
- CONTROL VALVE (CV) – FLOAT–OPERATED
- PRESSURE REDUCING VALVE (PRV)
- M — FLOW METER

- T — ROOM THERMOSTAT/TRANSMITTER – WALL MOUNT
- M — ROOM HUMIDISTAT (MOISTURE)/TRANSMITTER – WALL MOUNT
- TT — TEMPERATURE TRANSMITTER
- TT — TEMPERATURE TRANSMITTER, AVERAGING ELEMENT
- MT — MOISTURE (HUMIDITY) TRANSMITTER
- PT — PRESSURE TRANSMITTER
- SPS — STATIC PRESSURE SENSOR
- FT — FLOW TRANSMITTER
- IT — CURRENT TRANSMITTER
- CT — CONDUCTIVITY TRANSMITTER
- SD — SMOKE DETECTOR
- PDT — PRESSURE DIFFERENTIAL TRANSMITTER
- PDS — PRESSURE DIFFERENTIAL SWITCH
- HS — HAND SWITCH (HAND–OFF–AUTO SWITCH)
- ZC — VALVE OR DAMPER POSITION CONTROLLER
- KR — LOCAL RECORDING TIME CLOCK (RUNTIME)
- TSL — TEMPERATURE SWITCH, LOW (FREEZESTAT)
- TSH — TEMPERATURE SWITCH, HIGH (FREEZESTAT)
- LC — LEVEL CONTROLLER
- LT — LEVEL TRANSMITTER
- PSH — PRESSURE SWITCH HIGH
- PSL — PRESSURE SWITCH LOW
- EPT — ELECTRONIC TO PNEUMATIC TRANSDUCER
- AT CO2 — CARBON DIOXIDE TRANSMITTER
- AT CO — CARBON MONOXIDE TRANSMITTER
- AT OC — OCCUPANCY SENSOR
- LTCP — LOCAL TEMPERATURE CONTROL PANEL
- HVAC — HVAC CONTROL PANEL
- VSMC — VARIABLE SPEED MOTOR CONTROLLER
- ECC — INTEGRATE CONTROL POINT ON REMOTE GRAPHICS WORKSTATION AT ENERGY CONTROL CENTER
- TC — TEMPERATURE CONTROLLER. SEE SEQUENCE OF OPERATION
- PC — PRESSURE CONTROLLER. SEE SEQUENCE OF OPERATION
- SC — SPEED CONTROLLER. SEE SEQUENCE OF OPERATION
- FC — FLOW CONTROLLER. SEE SEQUENCE OF OPERATION
- FSH — FLOW SWITCH HIGH
- FSL — FLOW SWITCH LOW
- KC — TIME CLOCK CONTROLLING EQUIPMENT ON A SCHEDULE
- TEMPERATURE SENSING ELEMENT FOR TRANSMITTING TEMPERATURE TO EMCS (PROVIDE 12 INCHES [200mm] MINIMUM LENGTH IN DUCT WHEN SPACE PERMITS.)
- A — SENSOR WITH AVERAGING ELEMENT TO TRANSMIT TEMPERATURE TO EMCS
- MOTOR STARTER
- FEC ELECTRIC OPERATED CONTROL DAMPER VALVE
- FEC ELECTRIC OPERATED CONTROL VALVE
- FEC VARIABLE SPEED CONTROLLER
- FEC AIRFLOW SENSOR
- FEC HUMIDIFIER TRANSMITTER
- FEC PUMP

- UP / DN — SUPPLY DUCT (UP & DOWN)
- UP / DN — EXHAUST DUCT (UP & DOWN)
- UP / DN — RETURN DUCT (UP & DOWN)
- ROUND AND SQUARE 4–WAY CEILING DIFFUSERS
- SQUARE 3–WAY CEILING DIFFUSERS
- SQUARE 2–WAY CEILING DIFFUSERS
- SQUARE 1–WAY CEILING DIFFUSERS
- LINEAR SLOT DIFFUSER
- SUPPLY TOP REGISTER OR GRILLE (WALL TYPE)
- EXHAUST OR RETURN CEILING REGISTER OR GRILLE
- EXHAUST OR RETURN BOTTOM REGISTER OR GRILLE (WALL TYPE)
- EXHAUST OR RETURN REGISTER OR TOP GRILLE (WALL TYPE)
- VANED ELBOW & AIR SPLIT TYPE DUCT TAKE–OFF
- CONNECTION OF NEW TO EXISTING, DUCTWORK AND PIPING
- R — INCLINED RISE, IN DIRECTION OF AIR FLOW
- D — INCLINED DROP, IN DIRECTION OF AIR FLOW
- LIMIT OF DEMOLITION, DUCTWORK AND PIPING
- FC — FLEXIBLE CONNECTION, EQUIPMENT, VIBRATION, OR SEISMIC
- VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)
- VANED ELBOW (SHORT RADIUS)
- STANDARD RADIUS ELBOW (LONG RADIUS)
- 10x8 — NEW DUCT (INSIDE DIMENSIONS: WIDTH x DEPTH)
- EXISTING DUCT TO REMAIN
- EXISTING DUCT TO BE REMOVED
- LOUVER (LOUVER SPECIFIED IN ARCHITECTURAL SECTION.)
- FLEXIBLE DUCTWORK (INSULATED)
- DUCT WITH SOUND LINING
- VD — MANUAL VOLUME DAMPER
- FD — FIRE DAMPER
- BDD — BACK DRAFT DAMPER
- F/S DPR, N — COMBINATION FIRE/SMOKE DAMPER
- 2 1, 4 1/2 — POINT OF CHANGE IN DUCT CONSTRUCTION BY STATIC PRESSURE CLASS. THE NUMBER ASSIGNS PRESSURE CLASS (IN. OF WATER) WHICH WILL ACCOMMODATE MAXIMUM OPERATING PRESSURE IN THE DUCT SUBSECTION. THE SYMBOL CONTINUES THE ASSIGNMENT UNTIL THE DUCT TERMINATES OR ANOTHER SYMBOL APPEARS. A "N" SUPERSCRIPT INDICATES NEGATIVE PRESSURE.
- AUTOMATIC CONTROL DAMPER MODULATING
- AUTOMATIC CONTROL DAMPER TWO POSITION
- STAINLESS STEEL DUCT

- MANUAL SPLITTER DAMPER
- 45° SUPPLY — STANDARD BRANCH SUPPLY OR RETURN, NO SPLITTER (45° TAP)
- 45° RETURN
- DUCT MOUNTED COIL (HOT WATER OR STEAM COIL)
- DUCT MOUNTED COIL (ELECTRIC)

DRAWING SYMBOLS

- 2 / M101 — DETAIL NUMBER; DRAWING NUMBER WHERE DRAWN
- A / M401 — SECTION LETTER; DRAWING NUMBER WHERE SHOWN
- 400–SF 3 — EQUIPMENT ABBREVIATION (SUPPLY FAN); TYPICAL UNIT EQUIPMENT TAG; BUILDING NUMBER

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH OSHA 1926 SUBPART AA "CONFINED SPACES IN CONSTRUCTION" STANDARD. CONTRACTOR SHALL REVIEW THE REQUIREMENTS OF 1926.1211 REGARDING RESCUE AND EMERGENCY SERVICES. THE TOMAH VA FIRE DEPARTMENT DOES NOT HAVE A CONFINED SPACE RESCUE TEAM. CONTRACTOR SHALL CONFIRM COMPLIANCE WITH THE REQUIREMENTS FOR OSHA 1926.1211 RESCUE AND EMERGENCY SERVICE, AS WELL AS ALL REQUIREMENTS OF THE "CONFINED SPACES IN CONSTRUCTION" STANDARD.
2. LEGEND IS A STANDARD LEGEND. NOT ALL SYMBOLS AND ABBREVIATION SHOWN MAY BE USED ON THIS PROJECT.
3. FOR LOCATIONS AND SIZES OF WALL OPENINGS COORDINATE WITH ARCHITECTURAL DRAWINGS.
4. INSTALLATION SHALL PROVIDE READY ACCESS TO VALVES, DAMPERS, COILS, AIR FILTERS, AIR FLOW MEASURING STATIONS, AND OTHER DEVICES. ACCESS DOORS SHALL BE INSTALLED TO PROVIDE ADEQUATE CLEARANCES FOR DIRECT ACCESS.
5. PROVIDE LOCAL MECHANICAL VENTILATION DURING WELDING, PROVIDE PORTABLE FUME EXTRACTORS FOR ALL WELDING ACTIVITIES, REGARDLESS OF LOCATION WITHIN BUILDINGS.
6. DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED.
7. EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS, INSTRUCTIONS, AND AVAILABLE ON–SITE DURING INSTALLATION FOR COR OR CCR'S REFERENCE.
8. LOCATIONS, SIZES, CLEARANCES AND CONFIGURATIONS OF EQUIPMENT SHOWN ARE BASED ON SPECIFIC SCHEDULED MANUFACTURERS AND MODEL NUMBERS. SUBSTITUTION OF SUCH EQUIPMENT MANUFACTURERS WILL REQUIRE THE CONTRACTORS PRIOR VERIFICATION OF CONFORMANCE PER THE REQUIREMENTS OF LOCATION, SIZE CLEARANCES AND CONFIGURATION AS COMPARED TO SPACE ALLOCATED TO HOUSE SPECIFIC EQUIPMENT.
9. SUPPLY AND RETURN AIR DUCTWORK SHALL BE CONSTRUCTED, INSTALLED, AND INSULATED AS SPECIFIED; INSPECT DUCTWORK, SUPPORTS AND INSULATION FOR DAMAGE OR FAULTY INSTALLATION. REPLACE, OR REPAIR AS REQUIRED SO THAT FINAL INSTALLATION IS ADEQUATELY SEALED FROM LEAKS, FREE OF DEFECTS, AND IN ACCORDANCE WITH SPECIFICATIONS.
10. WHERE FLEXIBLE DUCTWORK IS USED, MAXIMUM ALLOWABLE LENGTH SHALL BE 5 FEET. FLEXIBLE IS ONLY ALLOWED FOR CONNECTION TO SUPPLY AIR DIFFUSERS.
11. ACOUSTICAL DUCT LINER IS NOT PERMITTED ON THIS PROJECT.
12. NEW CONTROLS TO BE COMPATIBLE WITH EXISTING DDC BAS SYSTEM AT THE FACILITY.
13. TOTAL STATIC PRESSURE NOTED IN THE SCHEDULES INCLUDES DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC.
14. FOR TYPICAL STEAM AND WATER PIPING CONNECTIONS TO EQUIPMENT, SEE STANDARD EQUIPMENT DETAILS.
15. DIFFUSER, REGISTER AND GRILLE SIZES SHOWN ON FLOOR PLANS ARE NECK SIZES.
16. WATER PIPE CONNECTIONS TO AIR HEATING AND COOLING COILS SHALL BE MADE TO PROVIDE COUNTER FLOW BETWEEN WATER AND AIR.
17. ALL PRESSURES LISTED ARE GAUGE PRESSURE UNLESS OTHERWISE NOTED.
18. WHERE AND WHEN HEAT IS REMOVED FROM ANY SPACE IN ANY BUILDING, THIS CONTRACTOR SHALL FURNISH AND PROVIDE TEMPORARY HEAT FOR ANY AND ALL SPACES WHERE IT WAS REMOVED UNTIL PERMANENT HEAT IS RESTORED AND APPROVED IN WRITING BY THE PROJECT COR OR THEIR DESIGNATED REPRESENTATIVE. FUEL SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR FOR THE DURATION OF NECESSARY HEATING.

ABBREVIATIONS

A/E ARCHITECT / ENGINEER
AAHX AIR TO AIR HEAT EXCHANGER
AB AIR BLENDER
AAV AUTOMATIC AIR VENT
ACC AIR COOLED CONDENSER
ACCH AIR COOLED CHILLER
ACCU AIR–COOLED CONDENSING UNIT
ACU AIR CONDITIONING UNIT
ACD AUTOMATIC CONTROL DAMPER,MODULATING
ACD–TP AUTOMATIC CONTROL DAMPER,TWO POSITION
AD ACCESS DOOR
AF AFTER FILTER
AFCV AIR FLOW CONTROL VALVE
AFF ABOVE FINISHED FLOOR
AFMD AIR FLOW MEASURING DEVICE
AFW AIR FOIL WHEEL (FAN)
AHU AIR–HANDLING UNIT
AMP AMPERGE
AP ACCESS PANEL
APD AIR PRESSURE DROP
ARI AIR CONDITIONING AND REFRIGERATION INSTITUTE
AS AIR SEPARATOR
ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AW AIR WASHER
AXF AXIAL FLOW

B BOILER
BD BUTTERFLY DAMPER
BDD BACKDRAFT DAMPER
BDR BASE BOARD RADIATOR
BFP BACKFLOW PREVENTER
BFT BOILER PLANT FIRE TUBE
BG BOTTOM GRILLE
BHP BRAKE HORSEPOWER
BHW HOT WATER HEATING BOILER
BHX BOILER BLOWDOWN HEAT EXCHANGER
BIW BACKWARD INCLINED WHEEL (FAN)
BMT BONE MARROW TRANSPLANT
BR BOTTOM REGISTER
BSC BIOLOGICAL SAFETY CABINETS
BT BLOWOFF TANK
BTC BLOWOFF TANK CONTROL VALVE
BTU BRITISH THERMAL UNIT
BTUH BRITISH THERMAL UNIT PER HOUR
BWT BOILER PLANT WATER TUBE

C CENTIGRADE (CELCIUS)
CC COOLING COIL
CCD COOLING COIL CONDENSATE DRAIN
CD CEILING DIFFUSER
CD–1 CONSTRUCTION DOCUMENTS (SUBMISSION1)
CD–2 CONSTRUCTION DOCUMENTS (SUBMISSION2)
CENT CENTRIFICAL
CFH CUBIC FEET PER HOUR
CFM CUBIC FEET PER MINUTE
CFT CUBIC FEET
CFP CHEMICAL FEED PUMP
CG CEILING GRILLE
CH CHILLER
CHP CHILLED WATER PUMP
CHW CHILLER WATER
CHR CHILLED WATER RETURN
CHS CHILLED WATER SUPPLY
CI CAST IRON
CM CARBON MONOXIDE
CM CUBIC METER
CM/S CUBIC METER PER SECOND
CO CLEAN OUT
CO2 CARBON DIOXODE
COMP COMPRESSOR UNIT
COP COEFFICIENT OF PERFORMANCE
CP CONDENSATE PUMP
CR CEILING REGISTER
CS CONDENSATE STORAGE TANK
CSG CLEAN STEAM GENERATOR
CT COOLING TOWER
CU CONDENSING UNIT
CUH CABINET UNIT HEATER
CV CONSTANT VOLUME
CW COLD WATER (POTABLE)
CWCC CHILLED WATER COOLING COIL
CWP CONDENSER WATER PUMP
CWR CONDENSER WATER RETURN (TO COOLING TOWER)
CWS CONDENSER WATER SUPPLY (FROM COOLING TOWER)

D DAMPER – AUTOMATIC
D–1 OUTDOOR AIR DAMPER
D–2 RETURN AIR DAMPER
D–3 RELIEF AIR DAMPER
DB DECIBELS
Db DRY–BULB TEMPERATURE
DD–1 DESIGN DEVELOPMENT (SUBMISSION1)
DD–2 DESIGN DEVELOPMENT (SUBMISSION2)
DDC DIRECT DIGITAL CONTROLS
DEG DEGREE
DF DIFFUSER
DIA DIAMETER
DIW DEIONIZED WATER
DP DEW POINT TEMPERATURE
DP DIFFUSER PLATE
DPA DIFFERENTIAL PRESSURE ASSEMBLY
DPS DIFFERENTIAL PRESSURE SENSOR
DX DIRECT EXPANSION
DXCC DIRECT EXPANSION COOLING COIL

EA EXHAUST AIR
EAT ENTERING AIR TEMPERATURE
EC EVAPORATIVE COOLER
ECC ENGINEERING CONTROL CENTER
ECU EVAPORATIVE CONDENSER UNIT
EDH ELECTRIC DUCT HEATER
EER ENERGY EFFICIENCY RATIO
EF EXHAUST FAN
EG EXHAUST GRILLE
EGS EMERGENCY GAS SHUTOFF
EGT ENTERING GLYCOL TEMPERATURE
EH EXHAUST HOOD
EJ EXPANSION JOINT
EMD END OF MAIN DRIP (STEAM)
ENT ENTERING
ER EXHAUST REGISTER
ERC ELECTRIC REHEAT COIL
ERP ELECTRIC RADIANT PANEL
ESP EXTERNAL STATIC PRESSURE
ET EXPANSION TANK
ETO ETHYLENE OXIDE
EUH ELECTRIC UNIT HEATER
EWC EVAPORATIVE WATER COOLER
EWT ENTERING WATER TEMPERATURE
EX. EXISTING
ETR EXISTING TO REMAIN

F FAHRENHEIT
F&T FLOAT AND THERMOSTATIC
F/SDPR COMBINATION FIRE SMOKE DAMPER
FA FREE AREA
FC FLEXIBLE CONNECTION
FCU FAN COIL UNIT (4 PIPE)
FCUC FAN COIL UNIT COOLING ONLY
FCUH FAN COIL UNIT HEATING ONLY
FCW FORWARD CURVED WHEEL (FAN)
FD FLOOR DRAIN
FD FIRE DAMPER
FEC FIELD EQUIPMENT CONTROL
FF FINAL FILTER
FHX FLUE GAS/FEEDWATER HEAT EXCHANGER
FM FLOW METER
FOP FUEL OIL PUMP
FOT FUEL OIL TANK
FOHX FUEL OIL HEAT EXCHANGER
FPM FEET PER MINUTE
FPS FEET PER SECOND
FPTU FAN POWERED TERMINAL UNIT
FR FLOOR REGISTER
FRP FIBER REINFORCED POLYESTER
FS FLOW SWITCH
FSTAT FREEZESTAT
FT FEET
FT–LB FOOT–POUND
FTR FIN TUBE RADIATION
FV FACE VELOCITY

GA GAUGE
GAL GALLONS
GH GRAVITY HOOD
GPD GALLONS PER DAY
GPH GALLONS PER HOUR
GPM GALLONS PER MINUTE
GPR GAS PRESSURE REGULATOR
GS GALVANIZED STEEL

H HUMIDIFER
H&CW HOT & COLD WATER
HAC HOUSEKEEPING AID CLOSET
HB HOSE BIBB
HC HEATING COIL
HD HEAD
HD HOOD
HOA HAND/OFF/AUTOMATIC
HP HEAT PUMP
HP HORSEPOWER
HPDT HIGH PRESSURE DRIP TRAP
HPR HIGH PRESSURE RETURN (STEAM CONDENSATE)
HPS HIGH PRESSURE SUPPLY (STEAM)
HRC HEAT RECOVERY COIL
HRD HEAT RECOVERY DEVICE
HRP HYDRONIC RADIANT (CEILING) PANEL
HRW HEAT RECOVERY WHEEL
HSTAT HUMIDISTAT
HTM HUMIDIFIER TERMINAL
HUM HUMIDIFIER UNIT MOUNTED
HVU HEATING AND VENTILATING UNIT
HW HOT WATER
HWC HOT WATER COIL
HWHC HOT WATER HEATING COIL
HWP HEATING HOT WATER PUMP
HWR HEATING HOT WATER RETURN
HWS HEATING HOT WATER SUPPLY
HWUH HOT WATER UNIT HEATER
HVD HOISTWAY VENT DAMPER
HX HEAT EXCHANGER
HZ HERTZ

I/O INPUT/OUTPUT
IAQ INDOOR AIR QUALITY
IBT INVERTED BUCKET TRAP
ICF IN–LINE CENTRIFUGAL FAN
ICU INTENSIVE CARE UNIT
ID INSIDE DIAMETER
IFB INTEGRAL FACE AND BYPASS
IN INCHES
IN HG INCHES OF MERCURY
IN WC INCH WATER COLUMN
IN WG INCH WATER GAUGE
IN–LB INCH–POUND
IPLV INTERGRATED PART LOAD VALUE
IRH INTRARED HEATER
IS INSECT SCREEN
IU INDUCTION UNIT
IV INLET VANES

J INTENTIALLY LEFT BLANK

kg KILOGRAM
kg/HR KILOGRAM PER HOUR
kPa KILOPASCAL
kW KILOWATT
kWh KILOWATT HOUR

L LITER
L/h LITERS PER HOUR (OR LITERS/HOUR)
L/m LITERS PER MINUTE (OR LITERS/MINUTE)
L/s LITERS PER SECOND (OR LITERS/SECOND)
LAT LEAVING AIR TEMPERATURE
LBS/HR POUNDS PER HOUR
LF LINEAR FOOT (FEET)
LGT LEAVING GLYCOL TEMPERATURE
LH LATENT HEAT
LPG LIQUID PROPANE GAS
LPR LOW PRESSURE RETURN (STEAM CONDENSATE)
LPRC LOW PRESSURE STEAM RETURN (CLEAN)
LLHX LIQUID TO LIQUID HEAT EXCHANGER
LPS LOW PRESSURE STEAM
LPSC LOW PRESSURE STEAM (CLEAN)
LSD LINEAR SLOT DIFFUSER
LTCP LOCAL TEMPERATURE CONTROL PANEL
LVG LEAVING
LVR LOUVER
LWT LEAVING WATER TEMPERATURE

M METER, SI UNIT
M/s METERS PER SECOND (OR METERS/SECOND)
MA MIXED AIR
MAT MIXED AIR TEMPERATURE
MAU MAKE–UP AIR UNIT
MAV MANUAL AIR VENT
MAX MAXIMUM
MB MIXING BOX
MBH 1000 BTUH
MCA MINIMUM BRANCH CIRCUIT AMPACITY
MER MECHANICAL EQUIPMENT ROOM
MERV MINIMUM EFFICIENCY REPORTING VALUE
MH MANHOLE
MHP MOTOR HORSEPOWER
MIN MINIMUM
MM MILLIMETER
MOV MOTOR OPERATED VALVE
MPR MEDIUM PRESSURE RETURN (STEAM CONDENSATE)
MPS MEDIUM PRESSURE STEAM
MRI MAGNETIC RESONANCE IMAGING
MTD MEAN TEMPERATURE DIFFERENCE
MVD MANUAL VOLUME DAMPER

NA NOT APPLICABLE
NC NOISE CRITERIA
NC NORMALLY CLOSED
NG NATURAL GAS
NGFM NATURAL GAS FLOWMETER
NO NORMALLY OPEN
NOAA NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION
NOM NOMINAL
NPLV NON–STANDARD PART LOAD VALUE
NPSH NET POSITIVE SUCTION HEAD
NTS NOT TO SCALE

OA OUTSIDE AIR
OAG OUTSIDE AIR GRILLE
OAI OUTSIDE AIR INTAKE
OD OUTSIDE DIAMETER
OFM OIL FLOWMETER
OR OPERATING ROOM

P PUMP
PA PASCAL
PC PUMPED CONDENSATE
PCF POUNDS PER CUBIC FOOT (FEET)
PD PRESSURE DROP
PEF PROPELLER (TYPE) EXHAUST FAN
PF PRE–FILTER
PG PRESSURE GAGE
PGW PROPYLENE GLYCOL–WATER (SOLUTION)
PHC PREHEAT COIL
PPM PARTS PER MILLION
PRS PRESSURE REGULATING (VALVE) STATION
PRV PRESSURE REGULATING VALVE
PSI POUNDS PER SQUARE INCH
PSIA POUNDS PER SQUARE INCH – ABSOLUTE
PSIG POUNDS PER SQUARE INCH – GAGE
PSS PRIMARY SECONDARY SYSTEM
PSV PRESSURE SAFETY VALVE
PTAC PACKAGED TERMINAL AIR CONDITIONER

R/E RETURN OR EXHAUST
RA RETURN AIR
RAD REFRIGERANT AIR DRYER
RAF RADIO FREQUENCY
RAHX ROTARY AIR HEAT EXCHANGER
RAT RETURN AIR TEMPERATURE
RCCH REMOTE CONDENSER CHILLER
RCU RECIPROCATING CHILLER UNIT
RD REFRIGERANT DISCHARGE
RDS ROOM DATA SHEETS
REA RELIEF AIR
RF RETURN FAN
RG RETURN GRILLE
RH RELATIVE HUMIDITY
RHC REHEAT COIL
RHG REFRIGERANT HOT GAS
RL REFRIGERANT LIQUID LINE
RLA RUN LOAD AMPERE
RO REVERSE OSMOSIS
RPM REVOLUTIONS PER MINUTE
RR RETURN REGISTER
RS REFRIGERANT SUCTION
RTU ROOF TOP UNIT
RV RELIEF VALVE

SA SUPPLY AIR
SAD SOUND ATTENUATING DEVICE
SAT SUPPLY AIR TEMPERATURE
SC SHADING COEFFICIENT
SCFM STANDARD CUBIC FEET PER MINUTE
SCI SPINAL CODE INJURY
SCR SILICON CONTROLLED RECTIFIER
SD SMOKE DETECTOR
SD SUPPLY AIR DIFFUSER
SD–1 SCHEMATIC DESIGN (SUBMISSION1)
SD–2 SCHEMATIC DESIGN (SUBMISSION2)
SDPR SMOKE DAMPER
SDR SMOKE DAMPER (RETURN)
SDS SMOKE DAMPER (SUPPLY)
SEN SENSIBLE HEAT
SF SUPPLY FAN
SG SUPPLY AIR GRILLE
SH STEAM HUMIDIFIER
SHC STEAM HEATING COIL
SI SQUARE INCHES
SP STATIC PRESSURE
SP GR SPECIFIC GRAVITY
SPD SUPPLY PROCESS AND DISTRIBUTION
SPRV STEAM PRESSURE REDUCING VALVE
SPS STATIC PRESSURE SENSOR
SQ FT SQUARE FOOT (FEET)
SR SUPPLY AIR REGISTER
SS STAINLESS STEEL
SSHX STEAM TO STEAM HEAT EXCHANGER
SSR SOLID SEPARATOR
ST STEAM TRAP
SUH STEAM UNIT HEATER
SV STEAM PRESSURE REDUCING VALVE
SVS STEAM VENT SILENCER
SWHX STEAM TO WATER HEAT EXCHANGER

T & PCV TEMPERATURE AND PRESSURE CONTROL VALVE
TAB TESTING, ADJUSTING, BALANCE
TD TEMPERATURE DIFFERENCE
TDH TOTAL DYNAMIC HEAD
TDS TOTAL DISSOLVED SOLIDS
TG TRANSFER GRILLE
TP TRAP
TR TOP REGISTER
TSP TOTAL STATIC PRESSURE
TSTAT THERMOSTAT
TU TERMINAL UNIT
TWU THRU–WALL UNIT

UC UNDER CUT
UC UNIT COOLER
UH UNIT HEATER
UL UNDERWRITERS LABORATORY
URV UPBLAST UNIT VENTILATOR

V VALVE
VAF VANE–AXIAL FAN
VAV VARIABLE AIR VOLUME
VD VOLUME DAMPER (MANUAL OPPOSED BLADE)
VFD VARIABLE FREQUENCY DRIVE
VHA VETERANS HEALTH ADMINISTRATION
VI VIBRATION ISOLATOR
VP VACUUM PUMP
VPS VARIABLE PRIMARY SYSTEM
VSD VARIABLE SPEED DRIVE

W WATTS
Wb WET–BULB (TEMPERATURE)
WC WATER COOLED
WCCH WATER COOLED CHILLER
WCCU WATER COOLED CONDENSING UNIT
WCPU WATER COOLED PACKAGED UNIT
WEF WALL EXHAUST FAN
WF WATER FILTER
WFCV WATER FLOW CONTROL VALVE
WFM WATER FLOWMETER
WG WATER GAGE
WPD WATER SIDE PRESSURE DROP

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Revisions:	Date

VETERANS AFFAIRS MEDICAL CENTER
500 E VETERANS ST
TOMAH, WI 54660

CONSULTANTS:

PROJECT LEADER:
PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title: MECHANICAL LEGEND, ABBREVIATIONS, AND NOTES
Approved: Project Director
Project Title: Connect B406 AHU-5 to Emergency Power
Location: Tomah, Wisconsin
Date: November 20, 2025
Checked By: HFB
Drawn By: JMD
Project Number: 676-22-108
Building Number
Drawing Number: M001
Office of Facilities Management
Department of Veterans Affairs

VA FORM 08–6231, OCT 1978

MECHANICAL MOTOR STARTER SCHEDULE

EQUIPMENT		ELECTRICAL DATA				STARTER											DISCONNECT AT UNIT								
						TYPE				FURN. BY		ACCESSORIES								FURN. BY					
TAG	SERVES	HP	kW	VOLTAGE	PHASE	MANUAL	MAGNETIC	COMBINATION	VFD	LOCATION	EQUIPMENT MFR	MECHANICAL CONTR.	ELEC. CONTRACTOR	HAND–OFF–AUTO	PILOT LIGHT	PUSH BUTTON	TWO–SPEED	REDUCED VOLTAGE	NOT REQUIRED	WEATHERPROOF	ELEC. CONTRACTOR	FUSED	EQUIPMENT MFR	MECHANICAL CONTR.	ELEC. CONTRACTOR	EMERGENCY POWER	NOTES
446–ACCU–1	ELECTRICAL CONTROL ROOM	–	–	208	1	X	–	–	–	ON UNIT	–	–	–	–	–	–	–	–	–	X	–	X	X	–	–	X	1, 2, 3,

NOTES:
1. SEE ELECTRICAL SHEETS FOR COORDINATION OF CONNECTIONS AND REQUIREMENTS.
2. SEE DETAILS AND DIAGRAMS SHEET.
3. SEE POINTS LIST THIS SHEET.

AIR COOLED CONDENSING UNIT SCHEDULE (ACCU–)

		CAPACITY			REFRIGERANT		CONDENSER FAN		ELECTRICAL DATA – ACCU							
TAG	SERVES	TONS	BTHU	AMBIENT AIR (°F)	TYPE	NO. OF CIRCUITS	NO. OF FANS	MOTOR WATTS	EER	SEER	VOLTS/ PHASE	MCA(*)	FUSE	ACCU WEIGHT	FCU WEIGHT	NOTES
446–ACCU–1	446–FCU–1	4	48,000	95	R454B	1	1	200	10.4	19.4	208/1	38	40	265	57	1,2,3,4,5,6,7,8,9

* INCLUDES COMPRESSORS, CONDENSER FANS, AND CONTROLS

NOTES:
1. BASIS OF DESIGN: ACCU MITSUBISHI PUYAK48NL.
2. BASIS OF DESIGN: FCU MITSUBISHI PLA–AE48NL
3. PROVIDE LOW AMBIENT KIT TO –20°F.
4. CONDENSING UNIT INCLUDES A TWIN ROTARY COMPRESSOR.
5. INDOOR UNIT POWERED FROM OUTDOOR UNIT.
6. PROVIDE WIRED THERMOSTAT CONTROL (7 DAY PROGRAMMABLE) WITH COMPATIBLE WIRING KIT.
7. PROVIDE MANUFACTURERS REFRIGERANT LINE SET 5/8" GAS AND 3/8" LIQUID. PROVIDE INSULATION ON BOTH LIQUID AND GAS LINES. PROVIDE ALUMINUM WEATHERPROOF COVERS AT EXTERIOR.
8. PROVIDE HAIL GUARD ON CONDENSING UNITS.
9. PROVIDE BACNET AND MODBUS PROTOCOL INTERFACE.

POINTS LIST FOR ELECTRICAL CONTROL ROOM – MECHANICAL EQPT AND MONITORING

TOMAH VA JOB NUMBER: 676–22–108
TITLE: CONNECT B406 AHU–5 TO EMERGENCY POWER
BUILDING: B406 AND B446

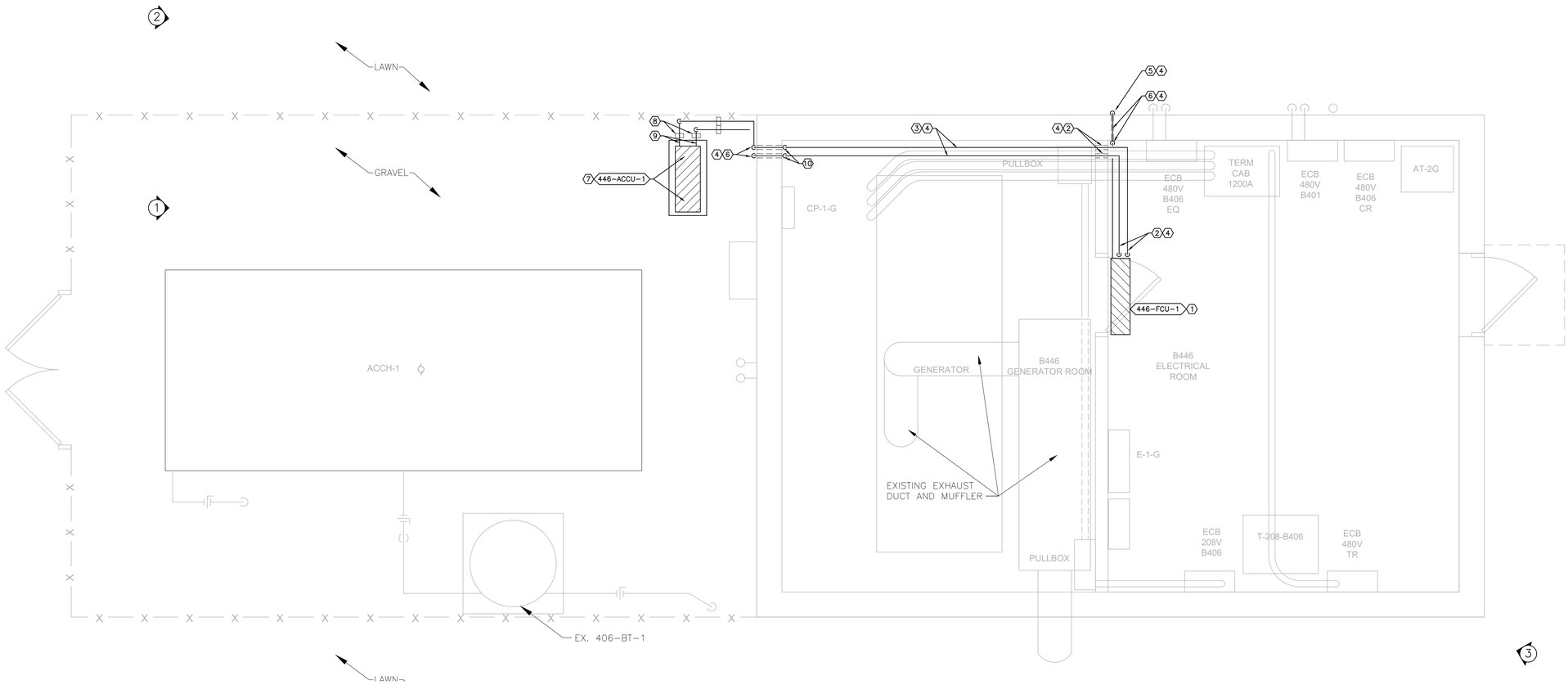
SYSTEM: ELECTRICAL CONTROL ROOM SPLIT–SYSTEM COOLING AND HEATING	POINT LEGEND		SYSTEM OUTPUTS		SYSTEM INPUTS		SYSTEM SOFTWARE/CONTROL		
			BINARY	ANA–LOG	BINARY	ANALOG	ALARM PROCESSING	APPLICATION/FUNCTION	
SYSTEM COMPONENT:	POINT ID	ABBREVIATION	REMOTE/LOCAL/ALARM BTL	ELEMENT ALARM	LOW/CLOSED	HIGH/OPEN	FIELD COMMAND	STATE FEEDBACK	FAILURE	HIGH SAFETY	LOW SAFETY	HIGH TEMPERATURE	LOW TEMPERATURE	DISCHARGE AIR	SPACE	OUTDOOR AIR	CHILLED WATER	HOT WATER	LOCK RTN FAN	LOCK SUP FAN	LOCK EXH FAN	LOCK OUT	SUPERVISE LOAD/FLOW	SUPERVISE PROCESS	SUPERVISE ALARM	SUPERVISE SCHEDULE	SUPERVISE SETPOINT	PROVIDE ANALOG CONTROL	PROVIDE DIGITAL CONTROL	REMARKS
ELEC CNTRL ROOM TEMP	AI–1	B446 TEMP								●				●																●	ALARM <50°F >85°F
446–FCU–1 RETURN TEMP	BI–1	FCU101–RA								●				●																●	ALARM <50°F >85°F
446–ACCU–1 STATUS	BO–1	ACCU–101			●					●																				●	ALM FAILURE TO START

GENERAL NOTES:

1. SEE SHEET M001 FOR NOTES, LEGEND, AND ABBREVIATIONS.
2. COORDINATE WITH ALL DISCIPLINES BEFORE CONSTRICTION.
3. SUBMITTAL APPROVED COORDINATION DRAWINGS ARE REQUIRED BEFORE ANY CONSTRUCTION WORK MAY START.
4. SEE GENERAL SHEETS FOR PHASING, FOLLOW ALL PHASING REQUIREMENTS.

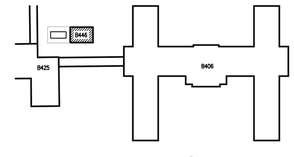
KEYED NOTES:

1. PROVIDE NEW SPLIT SYSTEM AIR CONDITIONING UNIT, MOUNT EVAPORATOR UNIT (INDOOR FCU–1) TO WALL AT 96" AFF AND CENTERED OVER DOOR, ROUTE CONDENSATE DRAIN TO EXTERIOR AS NOTED.
2. PROVIDE LINE SET SIZED BY MFR, INSULATE BOTH PIPES, ROUTE UP TO ROOF STRUCTURE, CORE HOLE THRU WALL BETWEEN GENERATOR ROOM AND ELECTRICAL ROOM, SEAL ALL–AROUND WITH FIRE RATED 2–HOUR CAULK, CAULKING BY SEALANT MANUFACTURER.
3. PIPES SHALL FOLLOW ROOF STRUCTURE TO EXTERIOR WALL, CORE HOLE THRU WALL TO EXTERIOR, PROVIDE A WEATHERPROOF ALUMINUM JACKET OVER INSULATION AT EXTERIOR, SEAL OPENING WITH FIRE RATED 2–HOUR CAULK, CAULKING BY SEALANT MANUFACTURER, ROUTE PIPES DOWN EXTERIOR WALL, TURN TOWARDS CONDENSING UNIT AT 36" ABOVE FINISHED GRADE.
4. SUPPORTS PIPES AT ALL ROUTING.
5. 3/4" PVC DRAIN (UV PROTECTED), ELBOW DOWN OUTSIDE BUILDING, PROVIDE STAINLESS STEEL SCREEN AT OUTLET TERMINATION, SECURED TO 3/4" PVC.
6. SECURE TO WALL, ROUTE DOWN TO 24" ABOVE FINISHED GRADE, PROVIDE SCHED 40 STEEL SLEEVE, FILL ALL–AROUND DRAIN WITH GROUT FROM EXTERIOR TO INTERIOR.
7. PROVIDE NEW SPLIT SYSTEM AIR CONDITIONING UNIT, MOUNT CONDENSING UNIT (OUTDOOR ACCU–1) ON NEW CONCRETE PAD, PROVIDE VIBRATION ISOLATORS ON FEET ON CONDENSING UNIT, SECURE TO PAD WITH WEDGE ANCHORS.
8. PROVIDE SUPPORTS SIMILAR TO RUBBER ROOF SUPPORTS FOR REFRIGERANT PIPING BETWEEN CONDENSING UNIT AND ROUTING ON WALL.
9. PROVIDE FLEXIBLE HOSE CONNECTIONS FOR REFRIGERATION PIPING AT CONDENSING UNIT.
10. DROP REFRIGERANT PIPES DOWN 2 COURSES THEN CORE THROUGH WALL.



1 FIRST FLOOR PLAN
1/2"= 1'-0"

NORTH



KEY PLAN NORTH

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500 E VETERANS ST
TOMAH, WI 54660

CONSULTANTS:

PROJECT LEADER:
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1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title: MECHANICAL B446 FIRST FLOOR PLAN AND SCHEDULE - NEW WORK

Approved: Project Director

Project Title: Connect B406 AHU-5 to Emergency Power

Location: Tomah, Wisconsin

Date: November 20, 2025 | Checked By: HFB | Drawn By: SJS

Project Number: 676-22-108

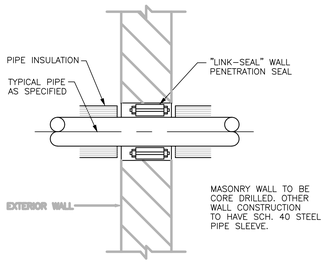
Building Number: 446/406

Drawing Number: MH101

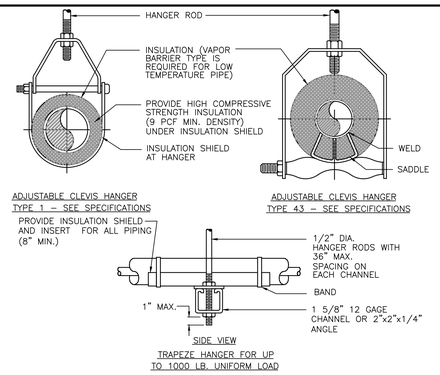
Office of Facilities Management

Department of Veterans Affairs

VA FORM 08–6231, OCT 1978

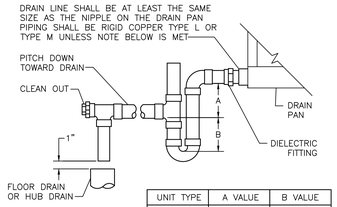


1 PIPE THRU EXTERIOR WALL DETAIL
NTS



MAXIMUM PIPE/TUBING SUPPORT SPACING										
NOM. SIZE IN.	THRU 3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6
PIPE FT.	7	7	7	9	10	11	12	14	16	17
TUBING FT.	5 FT	6	7	8	8	9	10	12	13	14
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.										

2 TYPICAL PIPE HANGERS DETAIL
NTS



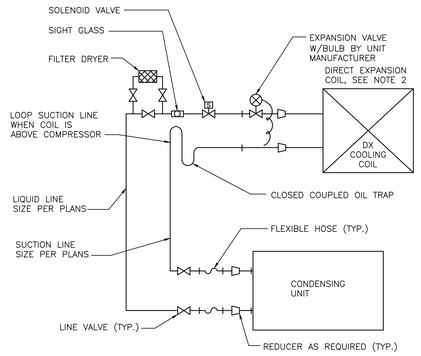
UNIT TYPE	A VALUE	B VALUE
DRAW THRU	2" PLUS X	X
BLOW THRU	1" MINIMUM	2X

WHERE X = STATIC PRESSURE IN PAN

NOTES:

1. CPVC PIPE MAY BE USED ONLY IF APPROVED BY LOCAL VA AND IS INDOORS AND DOES NOT PASS THROUGH RATED BARRIERS.
2. DIELECTRIC FITTING TO BE USED WHEN TWO DISSIMILAR METALS ARE TO BE CONNECTED.
3. TRAP DIMENSIONS NOTED FOR 406-AHU-5 FIT THE STATIC PRESSURE REQUIREMENTS AND WERE PROVIDED BY THE BASIS OF DESIGN MANUFACTURER. ANY CHANGES TO THE STATIC PRESSURE OR MANUFACTURER SHALL BE THE MECHANICAL CONTRACTOR AND SELECTED EQUIPMENT MANUFACTURERS RESPONSIBILITY TO VERIFY TRAP DIMENSIONS.
4. BASIS OF DESIGN AHU SELECTION, A = 7.5" AND B = 4".

3 CONDENSATE DRAIN TRAP DETAIL
NTS



NOTES:

1. SINGLE CIRCUIT SHOWN. PIPING TYPICAL FOR EACH OF TWO CIRCUITS.
2. CONDENSATE FROM COOLING COIL SHALL BE TRAPPED AND ROUTED AS INDICATED TO DRAIN.
3. PROVIDE DOUBLE RISER FOR UNITS UNLOADING AT A 25% OR LESS CAPACITY.

4 SPLIT DX SYSTEM REFRIGERANT PIPING DIAGRAM
NTS

FULLY SPRINKLERED

BID DOCUMENTS

Revisions: | Date

VETERANS AFFAIRS MEDICAL CENTER
500 E VETERANS ST
TOMAH, WI 54660

CONSULTANTS:

PROJECT LEADER:

PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title: MECHANICAL DETAILS AND DIAGRAMS

Approved: Project Director

Project Title: Replace AHU-5 in B406 and Add Humidification to B455

Location: Tomah, Wisconsin

Date: MAY 30, 2024 | Checked By: HFB | Drawn By: AEI

Project Number: 676-23-004

Building Number

Drawing Number: M501

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

SYMBOLS

LIGHTING

$X SWITCH
BLANK = SINGLE POLE
3 = THREE-WAY
D = DIMMER
LV= LOW VOLTAGE
LM= LOW VOLTAGE MASTER
PB= PUSH BUTTON STATION
T = TIMER OPERATED
X = EXPLOSION PROOF
2 = DOUBLE POLE
4 = FOUR-WAY
K = KEY OPERATED
L = LOCK
P = WITH PILOT LIGHT
RC= REMOTE CONTROL
WP= WEATHER PROOF
Mo= OCCUPANCY SENSOR

X LIGHT FIXTURE, PENDANT MOUNTED

X LIGHT FIXTURE, SURFACE MOUNTED

X LIGHT FIXTURE, RECESSED DOWNLIGHT

X LIGHT FIXTURE, RECESSED DOWNLIGHT, EMERGENCY EGRESS

X LIGHT FIXTURE, WALL MOUNT

X LIGHT FIXTURE, RECESSED, SIZED AS SHOWN

X LIGHT FIXTURE, RECESSED, EMERGENCY EGRESS, SIZE AS SHOWN. REFER TO SCHEDULE FOR SPLIT WIRING REQUIREMENTS.

X LIGHT FIXTURE, RECESSED, SIZED AS SHOWN

X LIGHT FIXTURE, RECESSED, EMERGENCY EGRESS; SIZE AS SHOWN. REFER TO SCHEDULE FOR SPLIT WIRING REQUIREMENTS.

X LIGHT FIXTURE, SURFACE MOUNTED, SIZE AS SHOWN

X LIGHT FIXTURE, SURFACE MOUNTED, EMERGENCY EGRESS, SIZE AS SHOWN. REFER TO SCHEDULE FOR SPLIT WIRING REQUIREMENTS.

X LIGHT FIXTURE, STRIP/INDUSTRIAL SIZE AS SHOWN

X LIGHT FIXTURE, STRIP/INDUSTRIAL, EMERGENCY EGRESS, SIZE AS SHOWN

X X LIGHT FIXTURE, WALL/ BRACKET MOUNTED

X X LIGHT FIXTURE, WALL/ BRACKET MOUNTED EMERGENCY EGRESS

LIGHT FIXTURE, POLE MOUNTED

X EMERGENCY BATTERY UNIT, CEILING MOUNTED

X EMERGENCY BATTERY UNIT, WALL MOUNTED

X EXIT SIGN, WALL MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN

X EXIT SIGN, CEILING MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN

X CEILING MOUNTED OCCUPANCY SENSOR; LETTER INDICATES TYPE
P = PASSIVE INFRARED
D = DUAL TECHNOLOGY (PASSIVE INFRARED/ULTRASONIC)
U = ULTRASONIC TECHNOLOGY

LIGHTING CONTACTOR; NUMBER INDICATES CONTACTOR CONTROLLING LIGHTING CIRCUIT.

PHOTO CONTROL

NOTE:
1. "X" DENOTES FIXTURE TYPE, REFER TO LIGHT FIXTURE SCHEDULE.

TELECOM

NOTE: THE DRAWINGS DO NOT SHOW PHYSICAL ROUTING AND DIMENSIONS OF CONDUIT OR REQUIRED WIREWAYS, JUNCTION OR PULL BOXES AS MAY BE NECESSARY TO FACILITATE INSTALLATION OF WIRING. ACTUAL ROUTINGS AND LOCATIONS ARE TO BE DETERMINED BY THE ELECTRICAL CONTRACTOR IN COORDINATION WITH DIV. 27 CONTRACTOR. ALL WIRING IS TO BE IN CONDUIT PER NEC. ALL CABLING IN OR BELOW SLAB OR EXTERIOR SHALL BE LISTED FOR WET LOCATION PER NATIONAL ELECTRICAL CODE.

OUTLET, COMBINATION TELEPHONE/DATA COMMUNICATION.

W OUTLET TELEPHONE; LETTER INDICATES AS FOLLOWS:
W = WALL TYPE

OUTLET DATA ONLY.

IN-FLOOR OUTLET, COMBINATION TELEPHONE/DATA COMMUNICATION.

FRONT FREE STANDING TELECOM RACK
VERTICAL JUMPER MANAGERS SHOWN ON EACH SIDE OF RACK
SEE DIVISION 27 FOR DESCRIPTION

OR TELECOM EQUIPMENT OR PANEL – TYPE INDICATED ON PLAN

TELECOM MAIN GROUND BAR

CAMERA

CR ACCESS CONTROL – CARD READER

POWER

XX MOTOR CONNECTION, SCHEDULE ITEM

T TRANSFORMER

5/8" X 10'-0" COPPER BONDED GROUND ROD

JUNCTION BOX

PB PULL BOX

IN-FLOOR RECEPTACLE AND TELEPHONE/ DATA COMMUNICATION

DOOR OPERATOR PUSH PLATE (FURNISHED BY DIVISION 08, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR)

PANELBOARD CABINET, FLUSH MOUNTED

PANELBOARD CABINET, SURFACE MOUNTED

$X SWITCH, LETTER INDICATES TYPE:
F = FUSED SWITCH
L = LOCK
M = MANUAL MOTOR STARTING
P = WITH PILOT LIGHT
WP= WEATHER PROOF
K = KEY OPERATED
LM= LOW VOLTAGE MASTER
MC= MOMENTARY CONTACT
PB= PUSH BUTTON STATION

EQUIPMENT CONNECTION, SCHEDULE ITEM

RECEPTACLE, DUPLEX

GFCI RECEPTACLE, DUPLEX – GROUND FAULT CIRCUIT INTERRUPTER

GFCI,WP RECEPTACLE, DUPLEX – GROUND FAULT CIRCUIT INTERRUPTER WEATHER PROOF ENCLOSURE

RECEPTACLE, QUADRAPLEX

RECEPTACLE, SINGLE

DROP CORD, SINGLE CONVENIENCE OUTLET, 3-WIRE, GROUNDING TYPE, 20A, W/#12 CONDUCTORS IN FLEXIBLE CORD (CENTER LINE OF OUTLET: 6'-6" [1981mm] AFF. MINIMUM).

F DISCONNECT SWITCH, FUSED

F DISCONNECT SWITCH, UNFUSED

F STARTER, COMBINATION WITH DISCONNECT SWITCH

STARTER OR MOTOR CONTROLLER

VFD VARIABLE FREQUENCY DRIVE

TC TIME CLOCK

FIRE PROTECTION & ALARM

F ALARM, FIRE, MANUAL PULL STATION: MOUNTED 48" AFF

X ALARM, HORN: C=CEILING/SURFACE W=WALL/COLUMN MT @7'-0"

X ALARM, STROBE
X STROBE CANDELLA INTENSITY
X C=CEILING/SURFACE W=WALL/COLUMN MT @7'-0"

X ALARM, HORN/STROBE – SEPARATE ASSEMBLY
X STROBE CANDELLA INTENSITY
X C=CEILING/SURFACE W=WALL/COLUMN MT @7'-0"

X ALARM, HORN/STROBE – ONE ASSEMBLY
X STROBE CANDELLA INTENSITY
X C=CEILING/SURFACE W=WALL/COLUMN MT @7'-0"

TS ALARM, TAMPER SWITCH

SMOKE DETECTOR

HD HEAT DETECTOR

DUCT SMOKE DETECTOR

FACP FIRE ALARM CONTROL PANEL

S SPEAKER, CEILING MOUNTED

FS FLOW SWITCH

ABBREVIATIONS

1PH	SINGLE-PHASE
1P	SINGLE POLE
2/C	TWO-CONDUCTOR
3/C	THREE-CONDUCTOR
3PH	THREE-PHASE
4/C	FOUR-CONDUCTOR
4W	FOUR-WIRE
A/C	AIR CONDITIONING UNIT
A/E	ARCHITECT/ENGINEER
AAP	ALARM ANNUNCIATOR PANEL
AC	ALTERNATING CURRENT OR ARMORED CABLE
ACC	ACCESSIBLE
ADDL	ADDITIONAL
ADJ	ADJACENT, ADJOINING
ADO	AUTOMATIC DOOR OPENER
AF	AMPERE FRAME OR AMP FUSE
AFC	ABOVE FINISHED COUNTER, AUTOMATIC FREQUENCY CONTROL, OR AVAILABLE FAULT CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AH	AMPERE HOUR
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
ALT	ALTERNATE
AMB	AMBIENT
AMP	AMPERE
ARCH	ARCHITECT
ASC	AMPS SHORT CIRCUIT
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIO VISUAL
BAT	BATTERY
BC	BARE COPPER
BD	BOARD
BFF	BELOW FINISH FLOOR
BIL	BASIC INSULATION LEVEL
BLDG	BUILDING
BPIP	BOILER PLANT INSTRUMENTATION
	PANEL
BRKR	BREAKER
BYP	BY PASS
C	CONDUIT
CAB	CABINET
CALC	CALCULATE
CAP	CAPACITY
CAT	CATALOG
CATV	COMMUNITY ANTENNA TELEVISION
CCR	CONTROL CONTACTOR
CCTV	CLOSED CIRCUIT TELEVISION
cd	CANDELA
CD	CONSTRUCTION DOCUMENTS
CF	CONTRACTOR FURNISHED
CFE	CONTRACTOR FURNISHED EQUIPMENT
CHW	CHILLED WATER
CHWP	CHILLED WATER PUMP
CKT	CIRCUIT
CKT BRKR	CIRCUIT BREAKER
CLF	CURRENT LIMITING FUSE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COAX	COAX CABLE
COMM	COMMUNICATION
COMPT	COMPARTMENT

CONC	CONCRETE
CONT	CONTINUE
CONTR	CONTRACTOR
COORD	COORDINATE
CPT	CONTROL POWER TRANSFORMER
CRI	COLOR RENDERING INDEX
CT	CURRENT TRANSFORMER
CTV	CABLE TELEVISION
CU	COPPER
CU FT	CUBIC FEET
CUR	CURRENT
D	DIMMER SWITCH
DB	DECIBEL OR DIRECT BURIAL
DC	DIRECT CURRENT
DCP	DIMMER CONTROL PANEL
DEG C	DEGREES CELSIUS
DEG F	DEGREES FAHRENHEIT
DEMO	DEMOLITION
DIAG	DIAGRAM
DISC	DISCONNECT
DISTR	DISTRIBUTION
DISTR PL	DISTRIBUTION PANEL
DN	DOWN
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
DRSW	DOOR SWITCH
DS	DISCONNECT SWITCH
DWG	DRAWING
EC	EMPTY CONDUIT
EG	EQUIPMENT GROUND
EL	ELEVATION
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATOR
EMCP	EMERGENCY MONITORING CONTROL PANEL
EM	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EPO	EMERGENCY POWER OFF
EPRF	EXPLOSION PROOF
ESMT	EASEMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EX, EXIST	EXISTING
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FABL	FIRE ALARM BELL
FABX	FIRE ALARM BOX
FACP	FIRE ALARM CONTROL PANEL
FC	FOOTCANDLE
FI	FILM ILLUMINATOR
FIXT	FIXTURE
FLT	FLOODLIGHT
FLUOR	FLUORESCENT
FLUOR FIX	FLUORESCENT FIXTURE
FT	FEET OR FOOT
FU SW	FUSED SWITCH
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
GND	GROUND
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GTB	GROUND TERMINAL BOX

HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HT	HEIGHT
HZ	HERTZ
IESNA	ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA
IMC	INTERMEDIATE METAL CONDUIT
INCAND	INCANDESCENT
IR	INFRARED
IWH	INSTANTANEOUS WATER HEATER
J-BOX	JUNCTION BOX
kV	KILOVOLT
kVA	KILOVOLT AMPERE
kVAH	KILOVOLT AMPERE PER HOUR
kVAR	KILOVOLT AMPERE REACTIVE
kW	KILOWATT
kWH	KILOWATT HOUR
kwHM	KILOWATT HOUR METER
LED	LIGHT EMITTING DIODE
LF	LINEAR FEET (FOOT)
LM	LUMEN
LP	LIGHT POLE
LPS	LOW PRESSURE SODIUM
LRA	LOCKED ROTAR AMPS
LTCP	LOCAL TEMPERATURE CONTROL PANEL
LT	LIGHT
LTG	LIGHTING
LTG PNL	LIGHTING PANEL
LTNG	LIGHTNING
LV	LOW VOLTAGE
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MC	METAL-CLAD
MCA	MINIMUM CIRCUIT AMPS
MCB	MINIMUM CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MG	MOTOR GENERATOR
MH	MANHOLE
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MLO	MAIN LUGS ONLY
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
MVA	MEGAVOLT-AMPERE
MW	MEGAWATT MICROWAVE
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEUT OR N	NEUTRAL
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NS	NO SCALE
NTS	NOT TO SCALE

OC	ON CENTER
OD	OUTSIDE DIAMETER
OL	OVERLOAD
P	POLE
PA	PUBLIC ADDRESS
PB	PANELBOARD, PULL BOX, OR PUSHBUTTON
PBPU	PREFABRICATED BEDSIDE PATIENT UNIT
PCB	POLYCHLORINATED BIPHENYL
PEC	PHOTOELECTRIC CELL
PED	PEDESTAL
PEND	PENDANT
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
POD	POWER OPERATED DAMPER
PT	POTENTIAL TRANSFORMER
PTRV	POWER TYPE ROOF VENTILATION
PVC	POLYVINYL CHLORIDE (PLASTIC)
PWR	POWER
R	RELOCATED
RCP	REFLECTED CEILING PLAN
REC	RECESSED
RECEPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMS	ROOT MEAN SQUARE
REQD	REQUIRED
SCC	SHORT CIRCUIT CAPACITY
SES	SERVICE ENTRANCE SECTION
SD	SMOKE DETECTOR
SF	SQUARE FOOT (FEET)
SHT	SHEET
SI	INTERNATIONAL SYSTEM OF UNITS
SPEC	SPECIFICATION
SPST	SINGLE POLE, SINGLE THROW
SURF	SURFACE
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TC	TIMECLOCK
TEL	TELEPHONE
TP	TWISTED PAIR
TPS	TWISTED PAIR SHIELDED
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
UGND	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY
V	VOLT
VA	VOLT AMPERE
VAR	VOLT AMPERE REACTIVE
VFD	VARIABLE FREQUENCY DRIVE
VOLT	VOLTAGE
W	WATT
WH	WATER HEATER
WP	WEATHERPROOF
XFER	TRANSFER
XFMR	TRANSFORMER

GENERAL NOTES

1. THE PLANS AND DOCUMENTS PROVIDED DESCRIBE INTENT AND SCOPE OF WORK AND ARE NOT NECESSARILY ALL INCLUSIVE OF REQUIRED WORK. THE ELECTRICAL CONTRACTOR IS TO PROVIDE ALL ELECTRICAL WORK REQUIRED FOR THIS PROJECT.
2. IT WILL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND OTHER INCIDENTALS NORMALLY REQUIRED FOR ELECTRICAL INSTALLATION WORK, INCLUDING ANY OVERTIME LABOR OR OTHER ANTICIPATED COSTS REQUIRED TO MEET THE COMPLETION SCHEDULE AND THE CONSTRUCTION REQUIREMENTS FOR THIS PROJECT.
3. ALL WORK IS TO BE PERFORMED IN A NEAT AND WORK LIKE MANNER AND IS TO CONFORM TO APPLICABLE CODES, STANDARDS, AND SPECIFICATIONS.
4. PROVIDE REQUIRED POWER CONNECTIONS TO MECHANICAL BUILDING SYSTEMS, INCLUDING HVAC & PLUMBING SYSTEMS.
5. CONTROL WIRING FOR HVAC WILL BE PROVIDED BY THE MECHANICAL CONTROLS CONTRACTOR EXCEPT AS SPECIFICALLY DETAILED OTHERWISE. MINOR CONTROL WIRING FOR PLUMBING AND OTHER MECHANICAL BUILDING EQUIPMENT WILL BE BY THE ELECTRICAL CONTRACTOR AS DESCRIBED ON PLANS.
6. MINIMUM BRANCH CIRCUIT WIRING TO BE SIZED FOR 3 PERCENT MAXIMUM VOLTAGE DROP. MINIMUM FEEDER WIRING TO BE SIZED FOR 2 PERCENT MAXIMUM VOLTAGE DROP.
7. PROVIDE SEPARATE NEUTRALS FOR ALL 120V AND 277V BRANCH CIRCUITS. MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE USED.
8. DEVICE MOUNTING HEIGHTS SHALL CONFORM WITH ADA GUIDELINES.
9. PROVIDE A PULL STRING IN EMPTY CONDUITS.
10. INSULATE AND SEAL CONDUIT PENETRATIONS BETWEEN SPACES AT DIFFERENT TEMPERATURES AND HUMIDITY LEVELS.
11. WHERE CONDUITS, WIREWAYS AND OTHER ELECTRICAL RACEWAYS PASS THROUGH FIRE PARTITIONS, FIRE WALLS, SMOKE PARTITIONS, OR FLOORS; INSTALL A FIRE STOP THAT PROVIDES AN EFFECTIVE BARRIER AGAINST THE SPREAD OF FIRE, SMOKE AND GASES.
12. DEMOLITION AND INSTALLATION OF ELECTRICAL EQUIPMENT WITHIN PROJECT SCOPE SHALL COINCIDE WITH THE MECHANICAL PHASING SCHEDULE & PLANS. REFER TO GC SHEETS FOR SPECIFIC PHASING REQUIREMENTS AND REVIEW PRIOR TO CONSTRUCTION.
13. SHUTDOWNS AND SERVICE INTERRUPTIONS SHALL BE COORDINATED WITH COR AND SHALL BE APPROVED IN WRITING BY COR PRIOR TO WORK BEING PERFORMED. A 3 WEEK ADVANCE NOTICE IS REQUIRED FOR ANY PLANT SHUTDOWN.

FULLY SPRINKLERED

100% BD DOCUMENT

Revisions:	Date

VETERANS AFFAIRS MEDICAL CENTER
500 E VETERANS ST
TOMAH, WI 54660

CONSULTANTS:

PROJECT LEADER:

PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title	ELECTRICAL SYMBOLS AND ABBREVIATIONS
Approved: Project Director	
Project Title	Connect B406 AHU-5 to Emergency Power
Location	Tomah, Wisconsin
Date	November 20, 2025
Checked By:	HFB
Drawn By:	SJS
Project Number	676-22-108
Building Number	
Drawing Number	E001

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

GENERAL NOTES

1. SEE SHEET E001 FOR NOTES, LEGEND, AND ABBREVIATIONS.
2. SEE SHEET GC103 FOR PHASING REQUIREMENTS.
3. SEE SHEET CD101 FOR SITE REQUIREMENTS.

KEYED NOTES

1. DISCONNECT EXISTING WIRING FROM CHILLER.
2. DISCONNECT EXISTING FEEDER FROM CHILLER ALL THE WAY BACK TO EXISTING MDP. ALL WIRING, CONDUIT, AND SUPPORTS ARE ONLY REMOVED UP TO END OF RUN IN TRAMWAY TUNNEL BEFORE GOING UNDERGROUND, AND ONLY AFTER NEW CONDUIT AND CONDUCTORS ARE INSTALLED, CONNECTED, AND FULLY FUNCTIONAL. PROVIDE CAP OVER 3" OPENING AT THE EXISTING PULL BOX. REMOVE THE REST OF THE 3" CONDUIT UNDER THE TRAMWAY AND ALL FITTINGS BACK TO THE MDP.
3. ABANDON EXISTING UNDERGROUND 3" CONDUIT AS A SPARE.
4. CUT EXISTING CONDUIT AT GROUND LEVEL. REMOVE CONDUCTORS. CAP WITH WATERTIGHT CAP FOR FUTURE USE.
5. PROVIDE 9"x6" ALUMINUM SIGN, RED BACKGROUND WITH WHITE LETTERING, REFLECTIVE BORDER, "3" ABANDONED CONDUIT TO CHILLER." SECURE TO PULL BOX WITH 2 – 3/16" x 1/4" SHEET-METAL SCREWS.

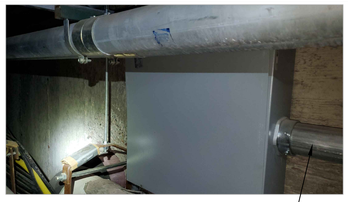


PHOTO 1

PHOTO 2

EXISTING 3" CONDUIT

EXISTING 3" CONDUIT

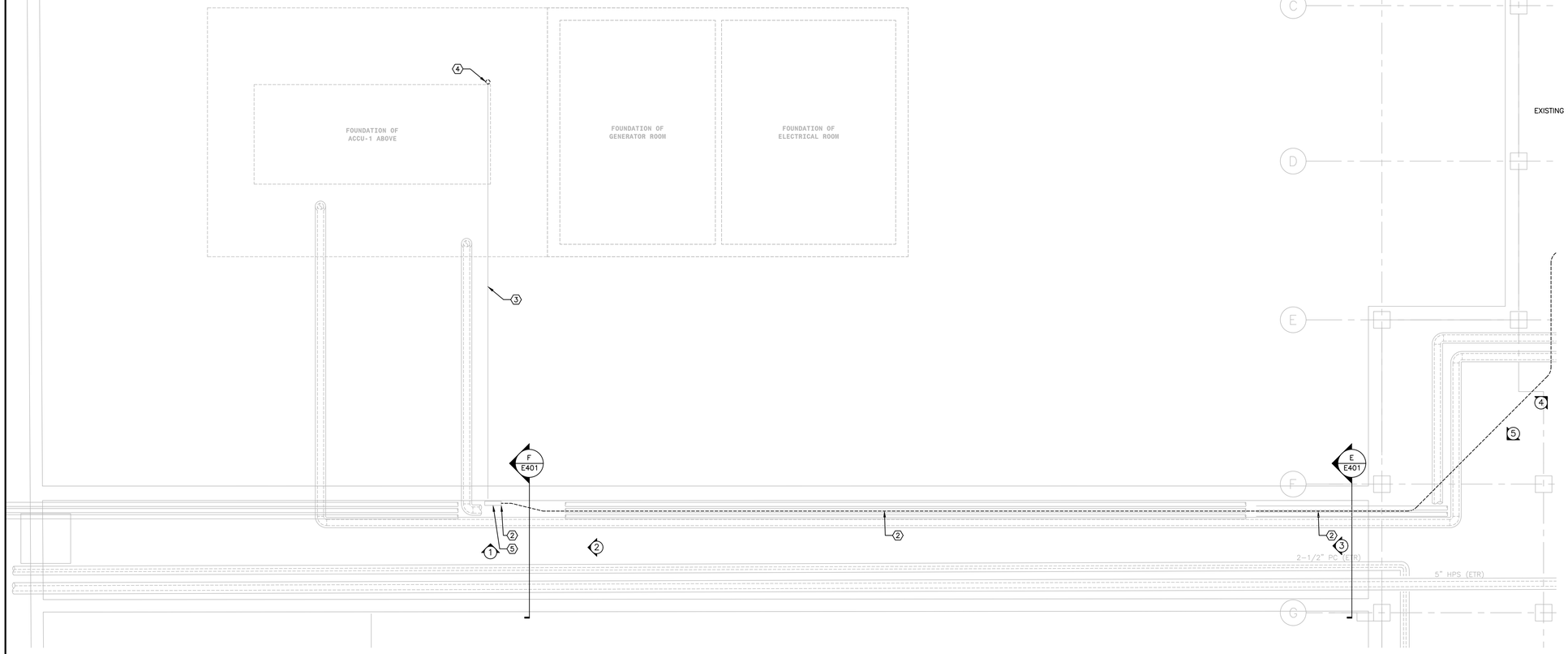
PHOTO 3

EXISTING 3" CONDUIT

PHOTO 4

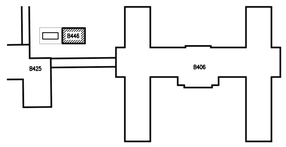
EXISTING 3" CONDUIT

PHOTO 5



1 B406 UTILITY TUNNEL/UNDERGROUND PLAN
1/4"= 1'-0"

NORTH



KEY PLAN NORTH

FULLY SPRINKLERED

100% BD DOCUMENT

Revisions:	Date

VETERANS AFFAIRS MEDICAL CENTER
500 E VETERANS ST
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CONSULTANTS:

PROJECT LEADER:

PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title: ELECTRICAL - B406 UTILITY TUNNEL/ UNDERGROUND PLAN - DEMOLITION

Approved: Project Director

Project Title: Connect B406 AHU-5 to Emergency Power

Location: Tomah, Wisconsin

Date: November 20, 2025 | Checked By: HFB | Drawn By: SJS

Project Number: 676-22-108

Building Number: 446/406

Drawing Number: ED101

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

PHOTO 1

PHOTO 2

PHOTO 3

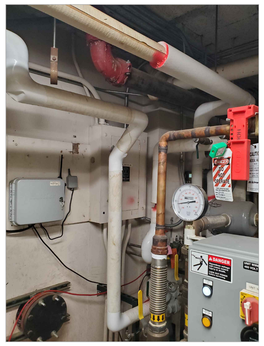


PHOTO 4

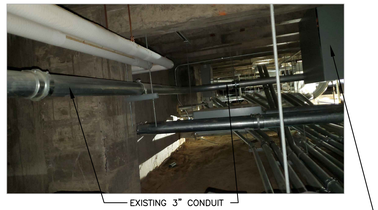


PHOTO 5

SAME EXISTING PULL BOX FOR REFERENCE IN PHOTO 5 AND PHOTO 6

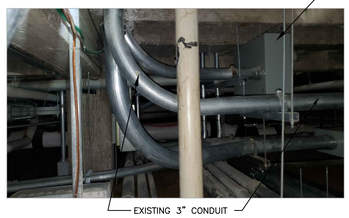


PHOTO 6

GENERAL NOTES:

1. SEE SHEET E001 FOR NOTES, LEGEND, AND ABBREVIATIONS.
2. SEE SHEET GC103 FOR PHASING REQUIREMENTS.

KEYED NOTES:

1. DISCONNECT EXISTING PUMPS. MAINTAIN EXISTING WIRING AND CONDUIT FROM PUMPS TO EXISTING VFDS. REMOVE EXISTING CONDUIT AND WIRE FROM VFDS TO EXISTING PANEL. PREPARE FOR EXTENSION OF NEW CIRCUIT TO PUMP AND VFD.
2. RELOCATE EXISTING CTRL PANEL FOR INSTALLATION OF NEW EMERGENCY PANEL. IDENTIFY PANEL AND COORDINATE WITH VA CCR FOR NEW LOCATION. PROVIDE NEW JUNCTION BOX AND CABLE TO MATCH EXISTING CABLE FOR PANEL.
3. DISCONNECT EXISTING FEEDER FROM CHILLER ALL THE WAY BACK TO EXISTING MDP. REMOVE ALL WIRING, CONDUIT TO ONLY BE REMOVED UP TO END OF RUN IN TRAMWAY BEFORE GOING UNDERGROUND. CUT, CAP, AND SEAL. REMOVE 3" CONDUIT UNDER TRAMWAY AND ALL FITTINGS BACK TO MDP.

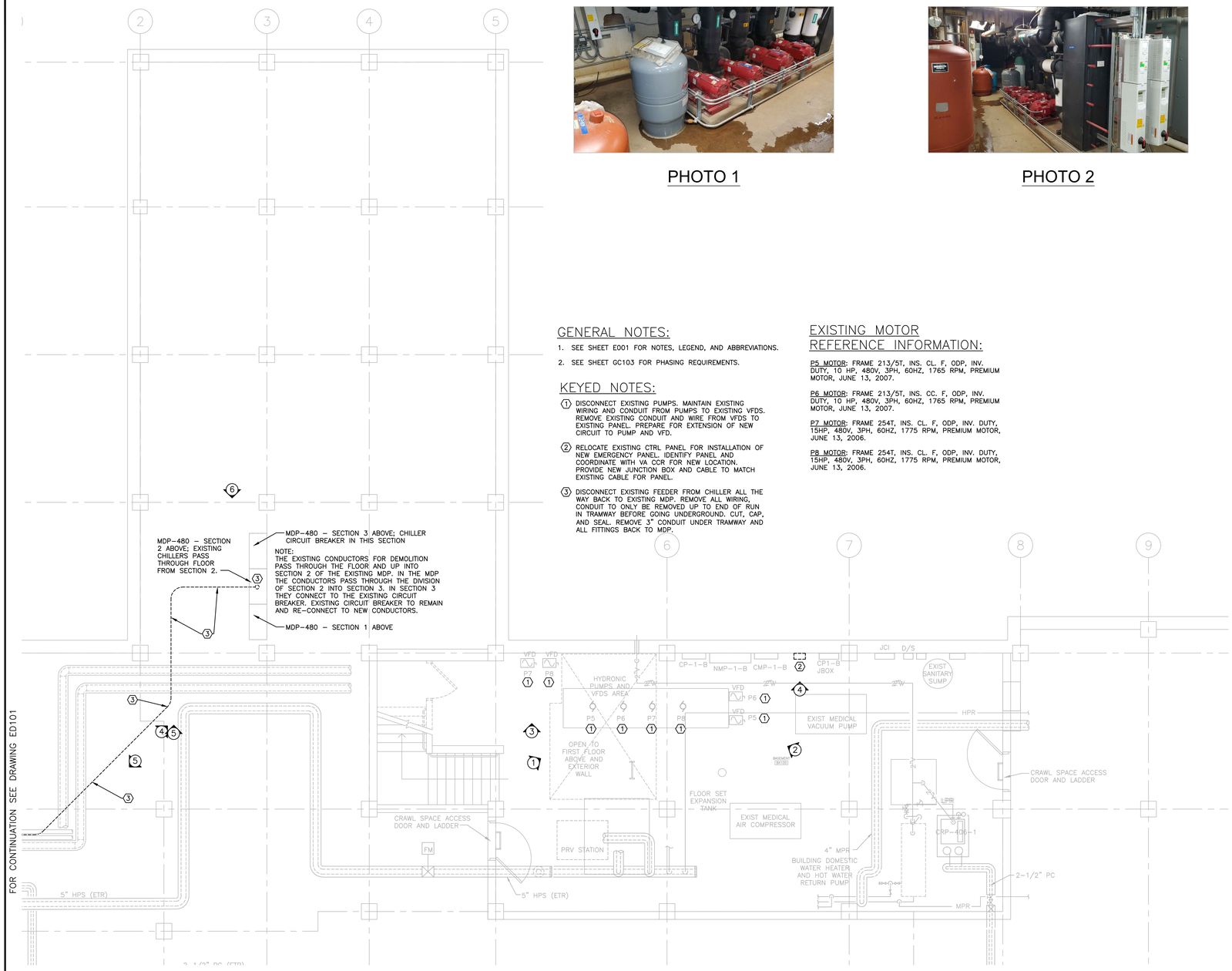
EXISTING MOTOR REFERENCE INFORMATION:

P5 MOTOR: FRAME 213/5T, INS. CL. F, ODP, INV. DUTY, 10 HP, 480V, 3PH, 60HZ, 1765 RPM, PREMIUM MOTOR, JUNE 13, 2007.

P6 MOTOR: FRAME 213/5T, INS. CC. F, ODP, INV. DUTY, 10 HP, 480V, 3PH, 60HZ, 1765 RPM, PREMIUM MOTOR, JUNE 13, 2007.

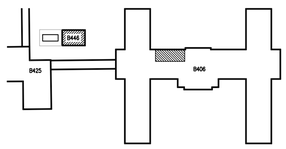
P7 MOTOR: FRAME 254T, INS. CL. F, ODP, INV. DUTY, 15HP, 480V, 3PH, 60HZ, 1775 RPM, PREMIUM MOTOR, JUNE 13, 2006.

P8 MOTOR: FRAME 254T, INS. CL. F, ODP, INV. DUTY, 15HP, 480V, 3PH, 60HZ, 1775 RPM, PREMIUM MOTOR, JUNE 13, 2006.



1 CRAWLSPACE/ MECHANICAL ROOM PLAN
1/4"= 1'-0"

NORTH



KEY PLAN NORTH

FULLY SPRINKLERED

100% BD DOCUMENT

Revisions:	Date

VETERANS AFFAIRS MEDICAL CENTER
500 E VETERANS ST
TOMAH, WI 54660

CONSULTANTS:

PROJECT LEADER:

PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title: ELECTRICAL B406 PARTIAL CRAWLSPACE PLAN - DEMOLITION

Approved: Project Director

Project Title: Connect B406 AHU-5 to Emergency Power

Location: Tomah, Wisconsin

Date: November 20, 2025 | Checked By: HFB | Drawn By: SJS

Project Number: 676-22-108

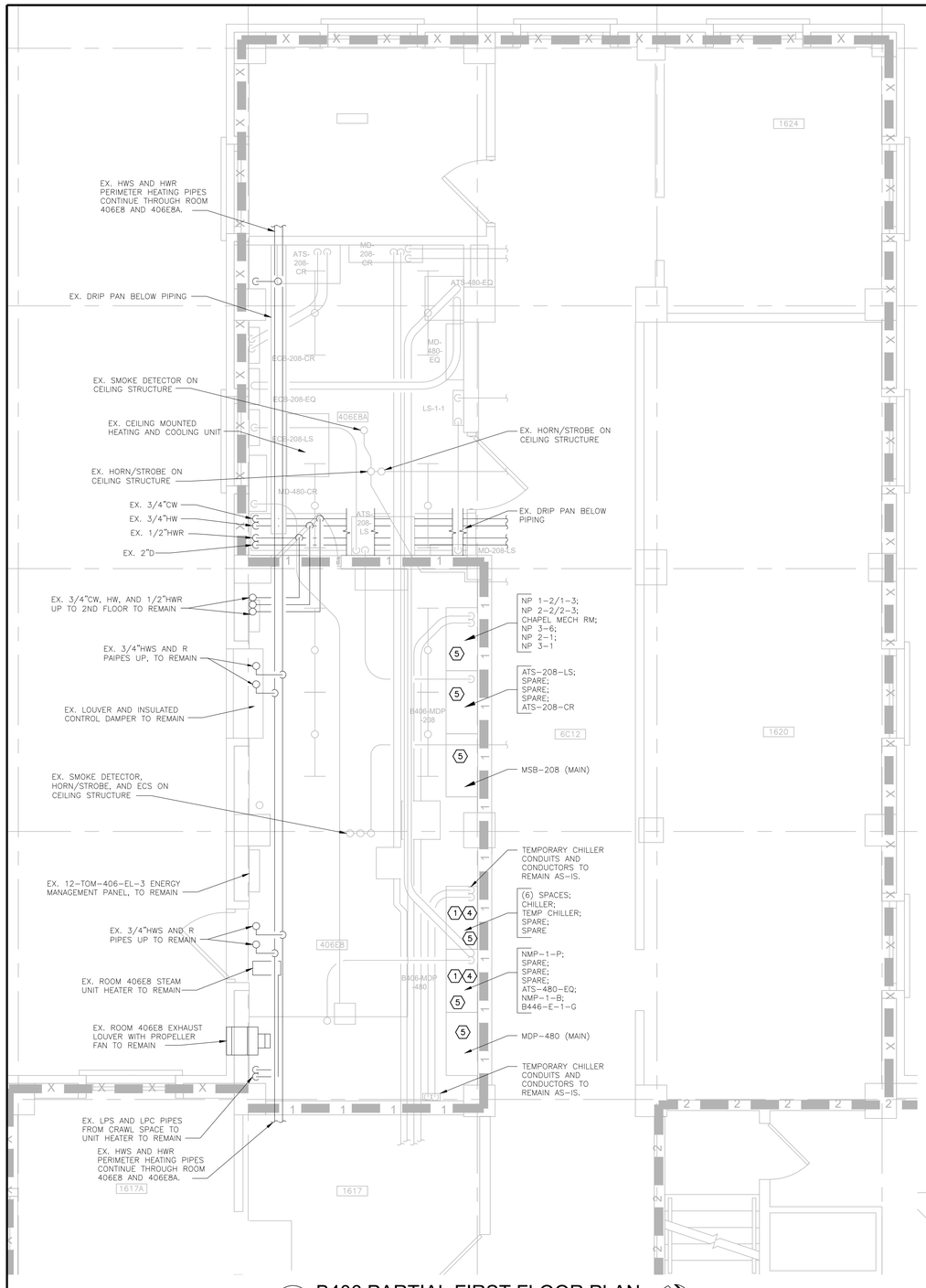
Building Number: 446/406

Drawing Number: ED102

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



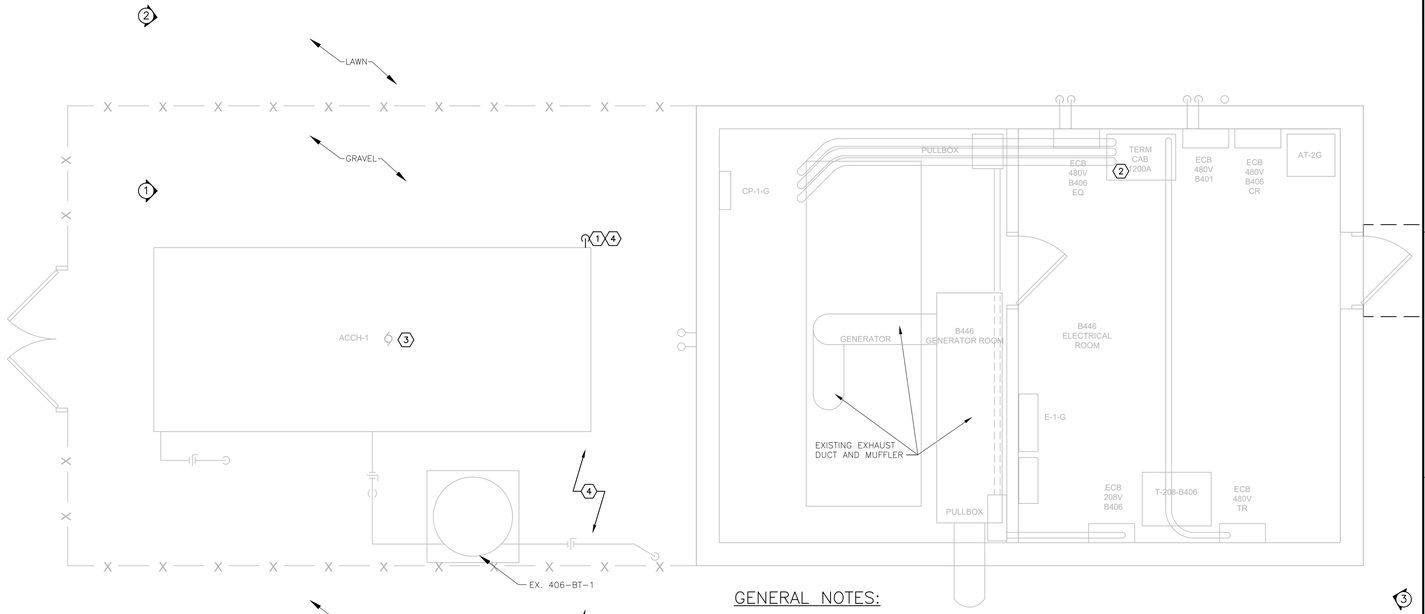
1 B406 PARTIAL FIRST FLOOR PLAN
3/8"= 1'-0"

NORTH

PHOTO 1

PHOTO 2

PHOTO 3



2 B446 GENERATOR AND EXTERIOR CHILLER FLOOR PLAN
3/8"= 1'-0"

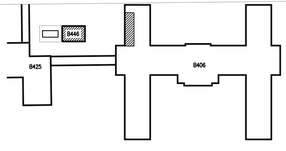
NORTH

GENERAL NOTES:

1. SEE SHEET E001 FOR NOTES, LEGEND, AND ABBREVIATIONS.
2. SEE SHEET GC103 FOR PHASING REQUIREMENTS. PHASING OF ALL KEYED NOTE WORK IS REQUIRED.

KEYED NOTES:

1. REMOVE ALL WIRING FROM CHILLER (ACCH-1) TO MDP. CUT AND CAP EXISTING CONDUIT AT GROUND LEVEL. COORDINATE WITH CIVIL CONTRACTOR.
2. PREPARE EXISTING TERMINATION CABINET IN B446 FOR NEW CONNECTION TO NEW ATS-EQ-2.
3. DISCONNECT FEED FROM MDP-480 SWITCHBOARD TO EXISTING CHILLER (ACCH-1) AND PREPARE FOR NEW CONNECTION TO ATS.
4. REMOVE EXISTING CONDUCTORS FROM EX. CHILLER (ACCH-1) ALL THE WAY BACK TO EXISTING MDP-480. REMOVE ALL WIRING. CONDUIT TO ONLY BE REMOVED UP TO END OF RUN IN TRAMWAY TUNNEL BEFORE GOING UNDERGROUND. CUT AND PROVIDE WATERTIGHT CAP AT EXTERIOR. REMOVE CONDUIT IN B406 TRAMWAY TUNNEL INCLUDING ALL FITTINGS, SUPPORTS, AND THREADED RODS BACK TO MDP-480.
5. PROVIDE FIRE STOP PLUG AT EACH CORED HOLE FROM SWITCHGEAR ROOM TO CRAWL SPACE. PROVIDE A TOTAL OF 12 - 4" DIAMETER PLUGS FOR MDP-480. CUT PLUGS AS NEEDED TO FILL ALL-AROUND CORES. SEAL WITH MANUFACTURES REQUIRED CAULK. ANY EXCESS PLUGS USE IN MDP-208. PROVIDE PLUGS BASED ON HILTI CFS-PL AND/OR 3M FIRE BARRIER PLUG PLC4. SUBMIT MATERIALS THROUGH SPEC SECTION 07 84 00, 1.3, 2.1, AND 3.1 THROUGH 3.5.



KEY PLAN NORTH

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100% BD DOCUMENT

Revisions:	Date

VETERANS AFFAIRS MEDICAL CENTER
500 E VETERANS ST
TOMAH, WI 54660

CONSULTANTS:

PROJECT LEADER:

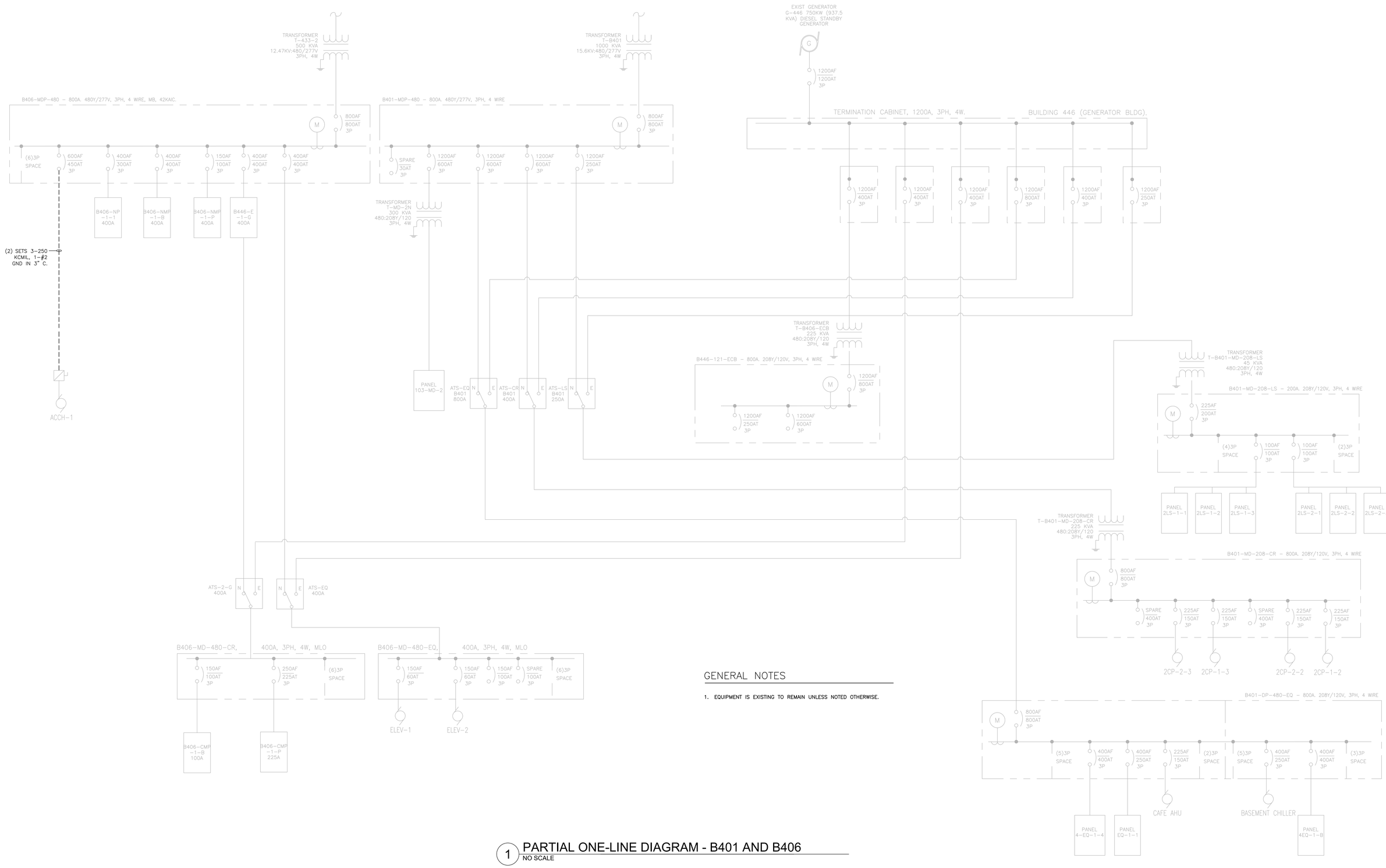
PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title	ELECTRICAL B446/B406 PARTIAL FIRST FLOOR PLAN - DEMOLITION
Approved: Project Director	
Project Title	Connect B406 AHU-5 to Emergency Power
Location	Tomah, Wisconsin
Date	November 20, 2025
Checked By:	HFB
Drawn By:	SJS
Project Number	676-22-108
Building Number	446/406
Drawing Number	ED103

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. EQUIPMENT IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

1 PARTIAL ONE-LINE DIAGRAM - B401 AND B406
NO SCALE

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Revisions:	Date

VETERANS AFFAIRS MEDICAL CENTER
500 E VETERANS ST
TOMAH, WI 54660

CONSULTANTS:

PROJECT LEADER:

PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title: ELECTRICAL DEMOLITION ONE-LINE DIAGRAM

Approved: Project Director

Project Title: Connect B406 AHU-5 to Emergency Power

Location: Tomah, Wisconsin

Date: November 20, 2025 | Checked By: HFB | Drawn By: SJS

Project Number: 676-22-108

Building Number:

Drawing Number: ED601

Office of Facilities Management

Department of Veterans Affairs

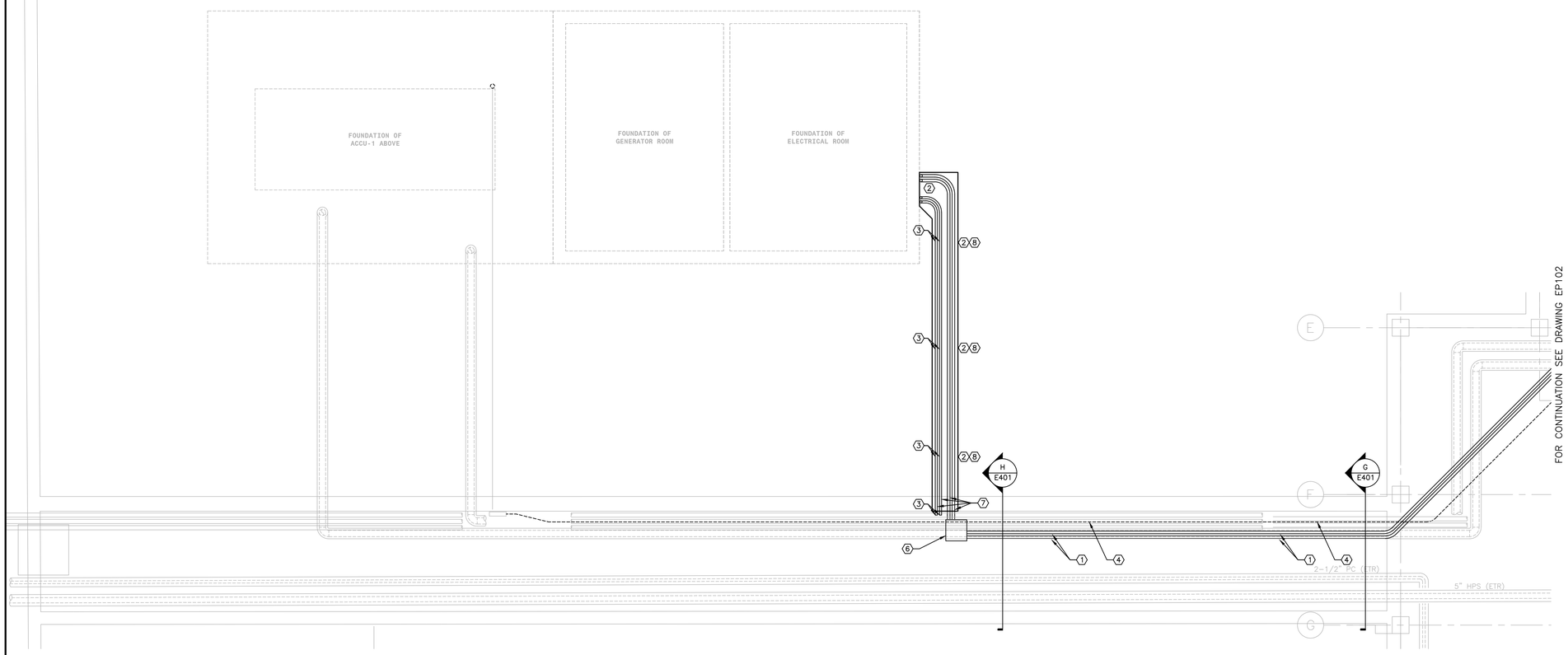
VA FORM 08-6231, OCT 1978

GENERAL NOTES:

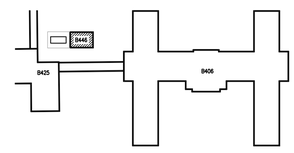
1. SEE SHEET E001 FOR NOTES, LEGEND, AND ABBREVIATIONS.
2. SEE SHEET GC103 FOR PHASING REQUIREMENTS.
3. SEE SHEET CD101 FOR SITE REQUIREMENTS.

KEYED NOTES:

1. ROUTE NEW (2) 2-1/2" CONDUITS FROM ELECTRICAL ROOM ABOVE THROUGH B406 UTILITY TUNNEL AND CRAWLSPACE. ADJUST ELEVATION TO AVOID EX PIPING, CONDUITS, AND OBSTRUCTIONS. CORE HOLE THROUGH FOUNDATION WALL AND ROUTE UNDERGROUND TO B446.
2. NEW UNDERGROUND FEED TO NEW ATS. SEE SHEET C101 FOR ADDITIONAL INFORMATION.
3. PROVIDE (2) 1-1/2" SPARE CONDUITS FROM TRAMWAY TO B446 IN DUCTBANK. CAP CONDUITS IN TRAMWAY AND LABEL AS SPARE WITH A SIGN, 6"x9" RED WITH WHITE LETTERS, "SPARE CONDUITS TO B446."
4. EXISTING 3" CONDUIT TO REMAIN IN-PLACE UNTIL THE ALL NEW WORK IS READY FOR FINAL CONNECTIONS TO THE CHILLER AND ALL PANELS.
5. LOWER EXISTING CABLES TO CLEAR NEW CONDUITS AND JUNCTION BOX, PROVIDE 6' OF NEW CABLE TRAY FOR EXISTING CABLE BUNDLE. VERIFY CABLE BUNDLE SIZE, SELECT CORRECTLY SIZE TRAY, AND SECURE TO EX. CONCRETE WALL.
6. PROVIDE STANDARD 24"x24"x6" NEMA 4X JUNCTION BOX. SUPPORT FROM CONCRETE STRUCTURE. 2 - 2-1/2" CONDUITS AND CONDUCTORS PASS THROUGH JUNCTION BOX.
7. CORE 4 HOLES IN THE WALL OF THE B406 UTILITY TUNNEL AND PROVIDE SCHED. 40 SLEEVES FOR EACH OF THE 4 CORES. PROVIDE SEALS FOR EXTERIOR WALL PER DETAILS ON C501.
8. CONCRETE DUCTBANK, SEE DETAIL ON E501, PROVIDE WITH 2 - 2-1/2" CONDUITS AND 2 - 1-1/2" SPARE CONDUITS TO B446. SEE SHEET C101 FOR MORE INFORMATION.



1 B406 TUNNEL/BELOW GRADE PLAN
1/4"= 1'-0"
NORTH



KEY PLAN NORTH

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Revisions:	Date

VETERANS AFFAIRS MEDICAL CENTER
500 E VETERANS ST
TOMAH, WI 54660

CONSULTANTS:

PROJECT LEADER:

PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title: ELECTRICAL - B406 UTILITY TUNNEL/ELECTRIC SITE PLAN, AND SECTIONS - NEW WORK

Approved: Project Director

Project Title: Connect B406 AHU-5 to Emergency Power

Location: Tomah, Wisconsin

Date: November 20, 2025 | Checked By: HFB | Drawn By: SJS

Project Number: 676-22-108

Building Number: 446/406

Drawing Number: EP101

Office of Facilities Management

Department of Veterans Affairs

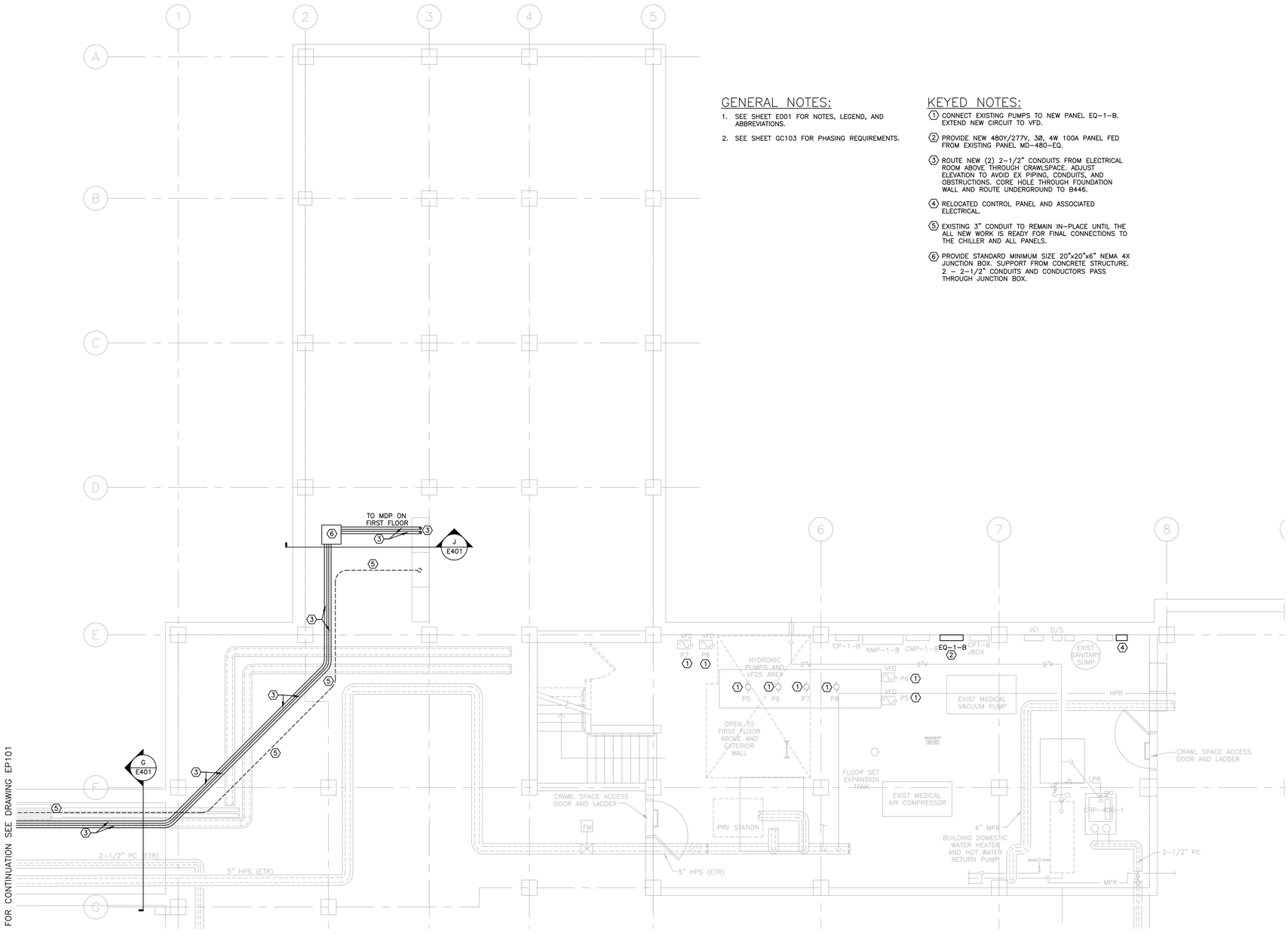
VA FORM 08-6231, OCT 1978

GENERAL NOTES:

1. SEE SHEET E001 FOR NOTES, LEGEND, AND ABBREVIATIONS.
2. SEE SHEET GC103 FOR PHASING REQUIREMENTS.

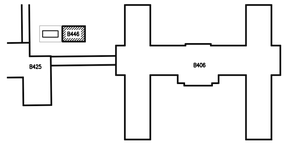
KEYED NOTES:

1. CONNECT EXISTING PUMPS TO NEW PANEL EQ-1-B. EXTEND NEW CIRCUIT TO VFD.
2. PROVIDE NEW 480Y/277V, 3Ø, 4W 100A PANEL FED FROM EXISTING PANEL MD-480-EQ.
3. ROUTE NEW (2) 2-1/2" CONDUITS FROM ELECTRICAL ROOM ABOVE THROUGH CRAWLSPACE. ADJUST ELEVATION TO AVOID EX PIPING, CONDUITS, AND OBSTRUCTIONS. CORE HOLE THROUGH FOUNDATION WALL AND ROUTE UNDERGROUND TO B446.
4. RELOCATED CONTROL PANEL AND ASSOCIATED ELECTRICAL.
5. EXISTING 3" CONDUIT TO REMAIN IN-PLACE UNTIL THE ALL NEW WORK IS READY FOR FINAL CONNECTIONS TO THE CHILLER AND ALL PANELS.
6. PROVIDE STANDARD MINIMUM SIZE 20"x20"x6" NEMA 4X JUNCTION BOX. SUPPORT FROM CONCRETE STRUCTURE. 2 - 2-1/2" CONDUITS AND CONDUCTORS PASS THROUGH JUNCTION BOX.



1 B406 CRAWL SPACE PLAN
1/4"= 1'-0"

NORTH



KEY PLAN NORTH

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Revisions:	Date

VETERANS AFFAIRS MEDICAL CENTER
500 E VETERANS ST
TOMAH, WI 54660

CONSULTANTS:

PROJECT LEADER:

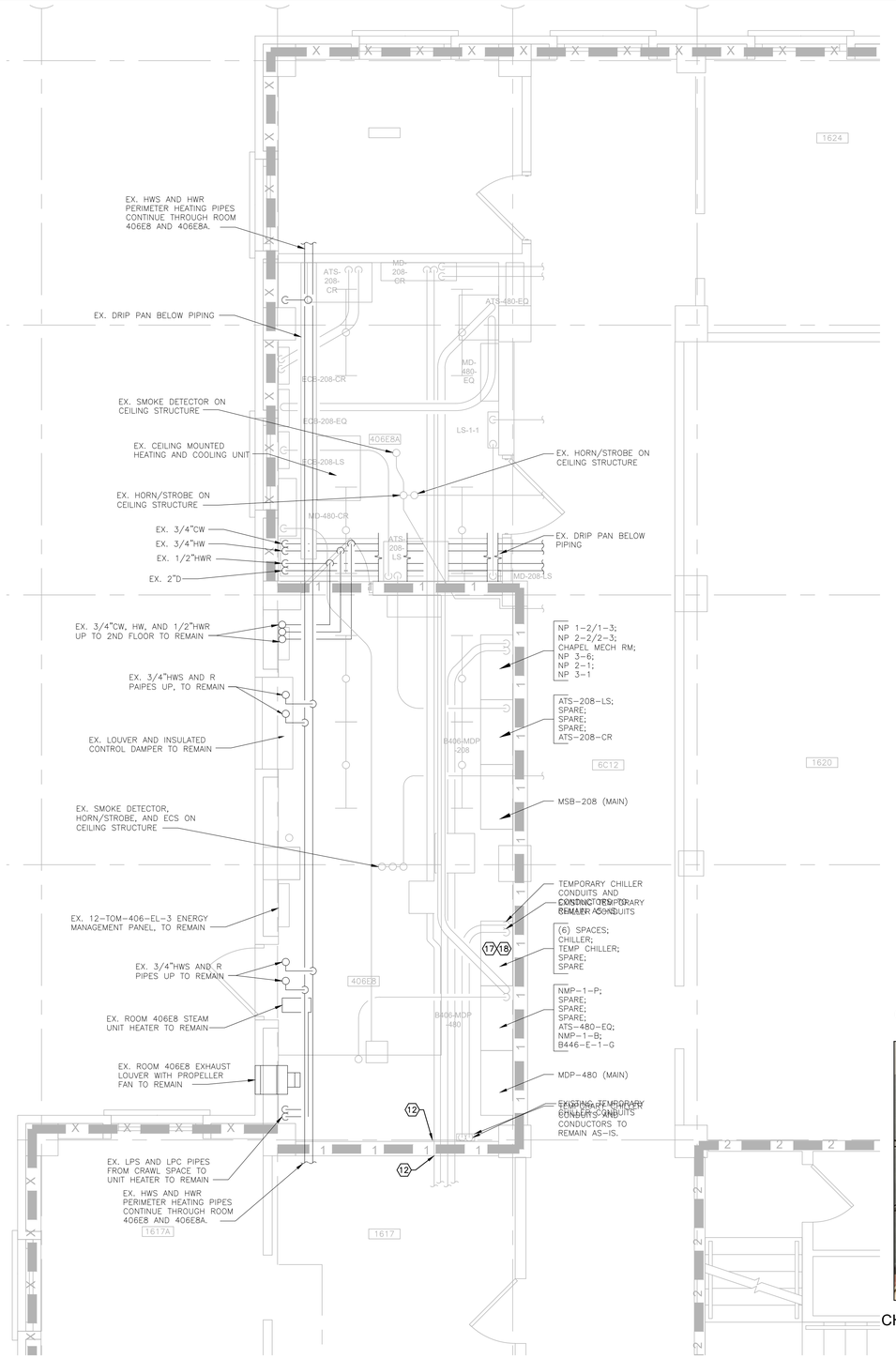
PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title	ELECTRICAL - B406 PARTIAL CRAWLSPACE PLAN AND SECTIONS - NEW WORK
Approved: Project Director	
Project Title	Connect B406 AHU-5 to Emergency Power
Location	Tomah, Wisconsin
Date	November 20, 2025
Checked By:	HFB
Drawn By:	SJS
Project Number	676-22-108
Building Number	446/406
Drawing Number	EP102

Office of Facilities Management

Department of Veterans Affairs

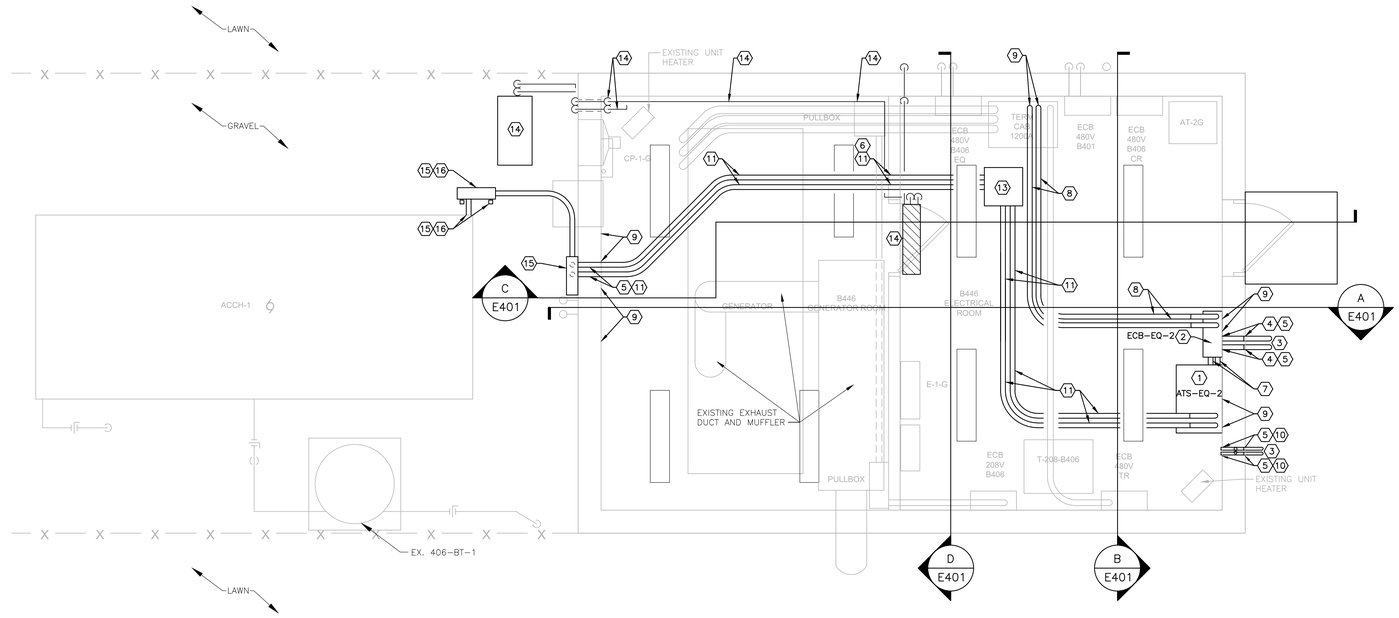
VA FORM 08-6231, OCT 1978



1 B406 PARTIAL FIRST FLOOR PLAN

SCALE: 3/8"=1'-0"

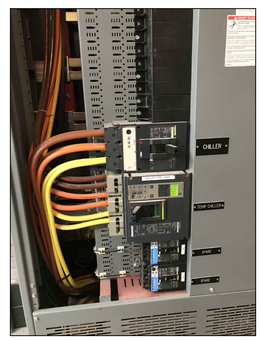
NORTH



2 B446 GENERATOR AND EXTERIOR CHILLER FLOOR PLAN

SCALE: 3/8"=1'-0"

NORTH



CHILLER CONDUCTORS WITHIN B406-MDP-480

CHILLER CIRCUIT BREAKER WITHIN B406-MDP-480

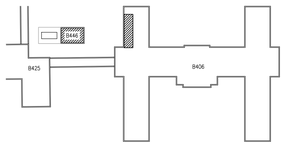
EXISTING B406-MDP-480

KEYED NOTES

1. PROVIDE NEW AUTOMATIC TRANSFER SWITCH (ATS-EQ2). BASIS OF DESIGN CUMMINS MODEL BTPC, 600A.
2. PROVIDE NEW ENCLOSED CIRCUIT BREAKER AND CONNECT TO EXISTING TERMINATION CABINET.
3. SEE SHEET EP101 FOR CONTINUATION. ALSO SEE C101 FOR CIVIL WORK.
4. PROVIDE 2 - 2-1/2" CONDUITS THROUGH WALL INTO ECB-EQ-2.
5. CORE WALL, SEE DETAIL 7 ON E501, FILL ALL-AROUND, BOTH ENDS WITH GROUT.
6. CORE WALL, SEE DETAIL 6 ON E501.
7. PROVIDE 2 - 2-1/2" CONDUITS FROM ECB-EQ-2 TO ATS-EQ-2.
8. PROVIDE 2 - 2-1/2" CONDUITS TO/FROM ECB-EQ-2 TO TERMINATION CAB. PROVIDE ALL CONDUCTORS AS NOTED ON PLANS AND ONE-LINE(S). PROVIDE ALL SUPPORTS. AVOID EXISTING SUPPORTS. RELOCATED EXISTING SUPPORTS AS NEEDED.
9. AVOID EXISTING CONDUITS AND JUNCTION BOXES ON WALL. SEE SECTIONS FOR APPROXIMATE LOCATIONS.
10. PROVIDE 2 - 1-1/2" SPARE CONDUITS THROUGH WALL AND CAP 3" INTO ELECTRICAL ROOM, PROVIDE STEEL SIGN STATING "SPARE EMPTY CONDUITS DOWN TO DUCTBANK ROUTED TO B406 UTILITY TRAMWAY CAP AT BOTH ENDS.
11. PROVIDE 2 - 2-1/2" CONDUITS TO/FROM ATS-EQ-2 TO EXISTING CHILLER (ACCH-1). PROVIDE ALL CONDUCTORS AS NOTED ON PLANS AND ONE-LINE(S). PROVIDE ALL SUPPORTS. AVOID EXISTING SUPPORTS. RELOCATED EXISTING SUPPORTS AS NEEDED.
12. PATCH WALL AT EXISTING CONDUITS, FILL FLUSH AT BOTH SIDES OF WALL, FINISH SMOOTHLY, PAINT ALL-AROUND TO MATCH EXISTING WALL FINISH. NO PAINT SPECIFICATION PROVIDED. SUBMIT PAINT PRODUCTS ALONG WITH GROUT TO PATCH WALL AND FLOOR.
13. PROVIDE 20"x20"x4" PULL BOX WITH KNOCKOUT PLUGS, SEE SPECIFICATIONS, SUPPORT BOX TO STRUCTURE, AVOID EXISTING SUPPORTS, ADJUST EXISTING SUPPORTS AS NEEDED.
14. PROVIDE POWER TO NEW 446-ACCU-1, 446-AACU-1 POWERS THE INDOOR 446-FCU-1, PROVIDE CONDUIT AND CONDUCTORS FOR BOTH MECHANICAL EQUIPMENT. COORDINATE CONNECTIONS TO THE TOMAH CAMPUS BAS. PROVIDE ALL CONDUIT AND CONDUCTORS REQUIRED PER THE DETAILS AND POINT SCHEDULE ON M501. FCU SHOWN FOR COORDINATION WITH CONDUITS TO CHILLER ACCH-1.
15. PROVIDE 20"x20"x4" PULL BOX WITH KNOCKOUT PLUGS, SEE SPECIFICATIONS, SUPPORT BOX TO STRUCTURE. THIS PULL-BOX MUST BE WEATHERPROOF NEMA 4X.
16. MOUNT NEW PULL BOX ON GALVANIZED SLOTTED STEEL POSTS, SECURE POSTS TO EXISTING CONCRETE CHILLER BASE. SET HEIGHT OF PULL BOX AT EXISTING ELECTRICAL CONNECTION HEIGHT OF THE CHILLER. PROVIDE ADAPTERS AS REQUIRED FOR CONDUIT AND CONDUCTOR CONNECTION TO THE EXISTING CHILLER POWER CONNECTION.
17. ROUTE NEW CONDUCTORS THROUGH NEW (2) 2-1/2" CONDUITS INTO CRAWL SPACE. SEE DRAWING EP102 FOR CONTINUATION.
18. EXISTING BREAKER FOR CHILLER TO REMAIN, MAKE ALL NECESSARY CONNECTIONS TO EXISTING EQUIPMENT. SEE AND FOLLOW ALL SEQUENCES.

GENERAL PLAN NOTES

1. REFER TO SHEET E001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. ELECTRICAL WORK TO BE DONE IN ACCORDANCE WITH PROJECT PHASING. REFER TO SHEETS GC101 THROUGH GC103 FOR MORE INFORMATION.
3. SHUTDOWNS AND SERVICE INTERRUPTIONS SHALL BE COORDINATED WITH COR AND SHALL BE APPROVED IN WRITING BY COR PRIOR TO WORK BEING PERFORMED. A 3 WEEK ADVANCE NOTICE IS REQUIRED FOR ANY PLANT SHUTDOWN.
4. SIZE PULLBOXES AS REQUIRED BY NEC.
5. FIELD VERIFY EXISTING CONDITIONS. COORDINATE WITH CONDUIT RUNS WITH MC.



KEY PLAN NORTH

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95% CD DOCUMENT

Revisions:	Date

VETERANS AFFAIRS MEDICAL CENTER
500 E VETERANS ST
TOMAH, WI 54660

CONSULTANTS:

PROJECT LEADER:

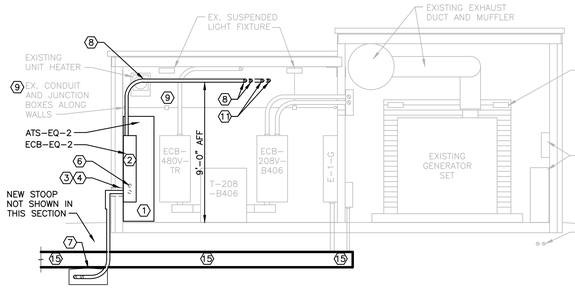
PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title	ELECTRICAL B446/B406 PARTIAL FIRST FLOOR PLANS - NEW WORK
Approved: Project Director	
Project Title	Connect B406 AHU-5 to Emergency Power
Location	Tomah, Wisconsin
Date	November 14, 2025
Checked By:	HFB
Drawn By:	SJS
Project Number	676-22-108
Building Number	446/406
Drawing Number	EP103

Office of Facilities Management

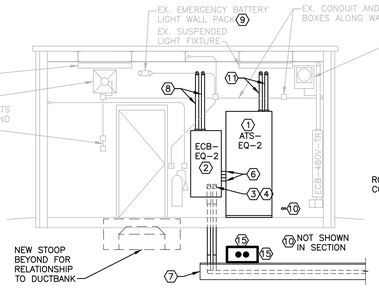
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



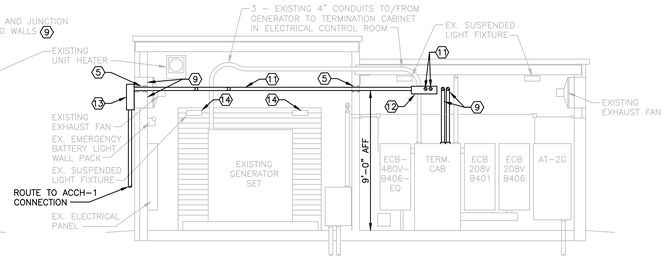
A SECTION THROUGH B446

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



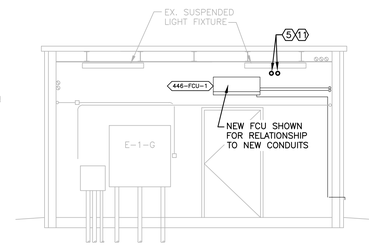
B SECTION THROUGH B446

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



C SECTION THROUGH B446

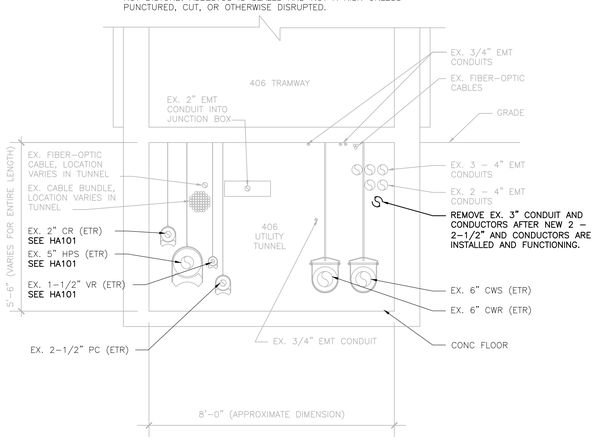
SCALE: 1/4"=1'-0"



D SECTION THROUGH B446

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

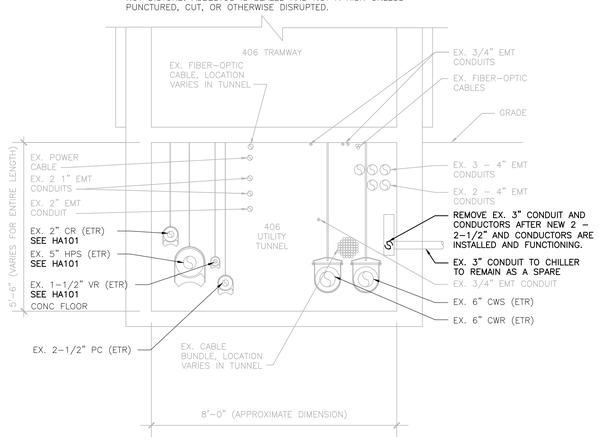
NOTE!! – KNOWN RISK:
EXISTING HPS, CR, AND VR PIPES HAVE ASBESTOS INSULATION. DO NOT DISTURB. ASBESTOS IS SEALED AND NOT A RISK UNLESS PUNCTURED, CUT, OR OTHERWISE DISRUPTED.



E SECTION THROUGH B406 TUNNEL

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

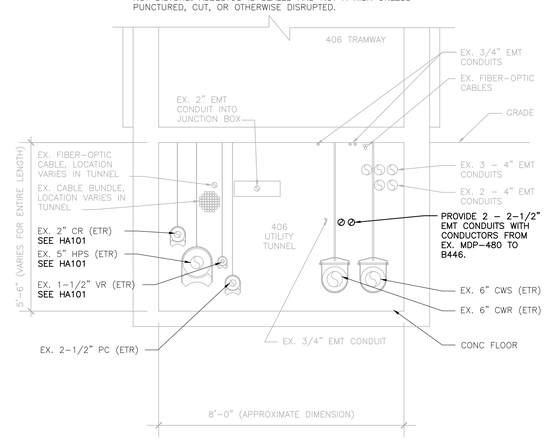
NOTE!! – KNOWN RISK:
EXISTING HPS, CR, AND VR PIPES HAVE ASBESTOS INSULATION. DO NOT DISTURB. ASBESTOS IS SEALED AND NOT A RISK UNLESS PUNCTURED, CUT, OR OTHERWISE DISRUPTED.



F SECTION THROUGH B406 TUNNEL

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

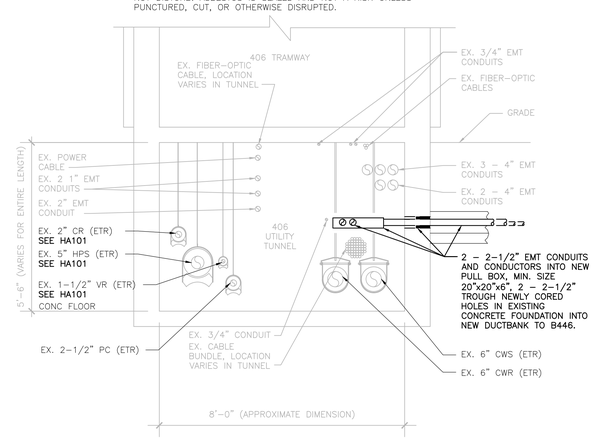
NOTE!! – KNOWN RISK:
EXISTING HPS, CR, AND VR PIPES HAVE ASBESTOS INSULATION. DO NOT DISTURB. ASBESTOS IS SEALED AND NOT A RISK UNLESS PUNCTURED, CUT, OR OTHERWISE DISRUPTED.



G SECTION THROUGH B406 TUNNEL

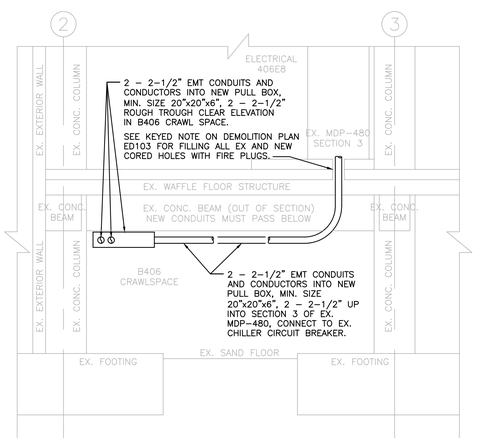
SCALE: 1/4"=1'-0"

NOTE!! – KNOWN RISK:
EXISTING HPS, CR, AND VR PIPES HAVE ASBESTOS INSULATION. DO NOT DISTURB. ASBESTOS IS SEALED AND NOT A RISK UNLESS PUNCTURED, CUT, OR OTHERWISE DISRUPTED.



H SECTION THROUGH B406 TUNNEL

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



J SECTION THROUGH B406 CRAWL SPACE

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

GENERAL PLAN NOTES

1. REFER TO SHEET E001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. ELECTRICAL WORK TO BE DONE IN ACCORDANCE WITH PROJECT PHASING. REFER TO SHEETS GC101 THROUGH GC103 FOR MORE INFORMATION.
3. SHUTDOWNS AND SERVICE INTERRUPTIONS SHALL BE COORDINATED WITH COR AND SHALL BE APPROVED IN WRITING BY COR PRIOR TO WORK BEING PERFORMED. A 3 WEEK ADVANCE NOTICE IS REQUIRED FOR ANY PLANT SHUTDOWN.
4. SIZE PULLBOXES AS REQUIRED BY NEC.
5. FIELD VERIFY EXISTING CONDITIONS. COORDINATE WITH CONDUIT RUNS WITH MC.

KEYED NOTES

1. PROVIDE NEW AUTOMATIC TRANSFER SWITCH (ATS-EQ2). BASIS OF DESIGN CUMMINS MODEL BTPC, 600A.
2. PROVIDE NEW ENCLOSED CIRCUIT BREAKER AND CONNECT TO EXISTING TERMINATION CABINET.
3. PROVIDE 2 – 2-1/2" CONDUITS THROUGH WALL INTO ECB-EQ-2.
4. CORE WALL, SEE DETAIL 7 ON E501, FILL ALL-AROUND, BOTH ENDS WITH GROUT.
5. CORE WALL, SEE DETAIL 6 ON E501.
6. PROVIDE 2 – 2-1/2" CONDUITS FROM ECB-EQ-2 TO ATS-EQ-2.
7. SEE DETAILS 2 AND 3 ON E501 FOR DUCTBANK AND CONDUIT REQUIREMENTS.
8. PROVIDE 2 – 2-1/2" CONDUITS TO/FROM ECB-EQ-2 TO TERMINATION CAB. PROVIDE ALL CONDUCTORS AS NOTED ON PLANS AND ONE-LINE(S). PROVIDE ALL SUPPORTS. AVOID EXISTING SUPPORTS. RELOCATED EXISTING SUPPORTS AS NEEDED.
9. AVOID EXISTING CONDUITS AND JUNCTION BOXES ON WALL. SEE SECTIONS FOR APPROXIMATE LOCATIONS.
10. PROVIDE 2 – 1-1/2" SPARE CONDUITS THROUGH WALL AND CAP 3" INTO ELECTRICAL ROOM, PROVIDE STEEL SIGN STATING "SPARE EMPTY CONDUITS DOWN TO DUCTBANK ROUTED TO B406 UTILITY TRAMWAY CAP AT BOTH ENDS.
11. PROVIDE 2 – 2-1/2" CONDUITS TO/FROM ATS-EQ-2 TO EXISTING CHILLER (ACCH-1). PROVIDE ALL CONDUCTORS AS NOTED ON PLANS AND ONE-LINE(S). PROVIDE ALL SUPPORTS. AVOID EXISTING SUPPORTS. RELOCATED EXISTING SUPPORTS AS NEEDED.
12. PROVIDE 20"x20"x4" PULL BOX WITH KNOCKOUT PLUGS, SEE SPECIFICATIONS, SUPPORT BOX TO STRUCTURE, AVOID EXISTING SUPPORTS, ADJUST EXISTING SUPPORTS AS NEEDED.
13. PROVIDE 20"x20"x4" PULL BOX WITH KNOCKOUT PLUGS, SEE SPECIFICATIONS, SUPPORT BOX TO STRUCTURE. THIS PULL-BOX MUST BE WEATHERPROOF NEMA 4X
14. MOVE AND REINSTALL CONDUIT AND SUPPORTS FOR EXISTING LIGHT FIXTURE.
15. PROBABLE LOCATION OF EXISTING CONDUITS/DUCTBANK. LOCATION PROVIDED BY UNDERGROUND MAPPING SERVICE. HAND DIG OR POT-HOLE EXCAVATION FOR NEW DUCTBANK IN THIS AREA. SEE DRAWING C101 FOR ADDITIONAL COORDINATION. EXACT DEPTH AND QUANTITIES NOT KNOWN. COORDINATE AND FOLLOW KEYED NOTE 9 ON C101 ALONG WITH GENERAL CONTRACTOR AND SITE EXCAVATION CONTRACTOR.

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100% BD DOCUMENT

Revisions:	Date

VETERANS AFFAIRS MEDICAL CENTER
500 E VETERANS ST
TOMAH, WI 54660

CONSULTANTS:

PROJECT LEADER:

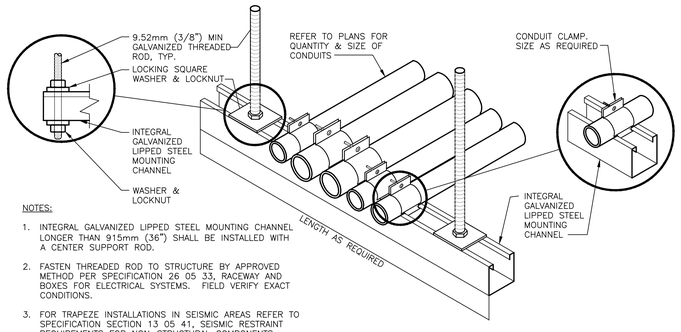
PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title	ELECTRICAL SECTIONS - NEW WORK
Approved: Project Director	
Project Title	Connect B406 AHU-5 to Emergency Power
Location	Tomah, Wisconsin
Date	November 20, 2025
Checked By:	HFB
Drawn By:	SJS
Project Number	676-22-108
Building Number	
Drawing Number	E401

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

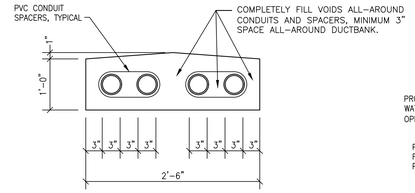


NOTES:

1. INTEGRAL GALVANIZED LIPPED STEEL MOUNTING CHANNEL LONGER THAN 915mm (36") SHALL BE INSTALLED WITH A CENTER SUPPORT ROD.
2. FASTEN THREADED ROD TO STRUCTURE BY APPROVED METHOD PER SPECIFICATION 26 05 33, RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS. FIELD VERIFY EXACT CONDITIONS.
3. FOR TRAPEZE INSTALLATIONS IN SEISMIC AREAS REFER TO SPECIFICATION SECTION 13 05 41, SEISMIC RESTRAINT REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS.

1 CONDUIT TRAPEZE MOUNTING DETAIL

NTS



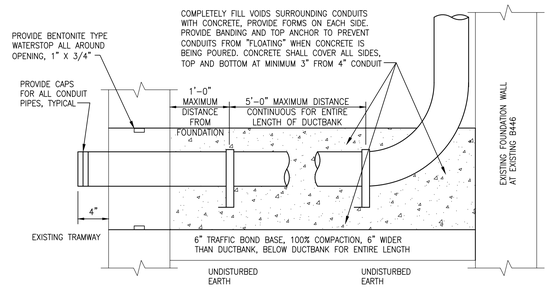
4-WAY DUCT LINE

GENERAL NOTES:

1. CONCRETE SHALL BE 2000 P.S.I. @ 28 DAYS, OR AS SPECIFIED.
2. MINIMUM COVER TO TOP OF ENVELOPE SHALL BE 24" OR AS OTHERWISE SPECIFIED IN SECTION 26 05 41.
3. PROVIDE MINIMUM 6" SPACE BETWEEN POWER AND TELECOMMUNICATION DUCTS. INCREASE SIZE AS REQUIRED.
4. QUANTITY AND SIZE AS INDICATED ON PLANS.

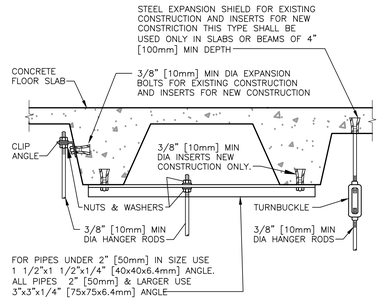
2 DUCT BANK INSTALLATION DETAIL

NTS



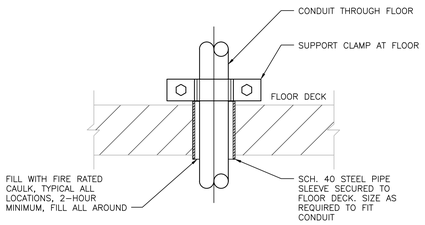
3 DUCT BANK AT EXTERIOR WALLS INSTALLATION DETAIL

NTS



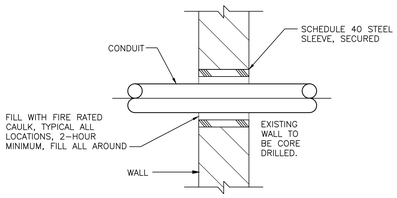
4 SECURING HANGER RODS IN CONCRETE

NTS



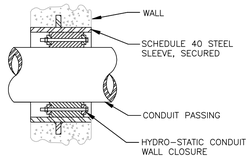
5 PIPE THROUGH FLOOR DETAIL

NTS



6 PIPE THROUGH INTERIOR WALL DETAIL

NTS



7 PIPE THROUGH EXTERIOR WALL DETAIL

NTS

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Revisions:	Date

VETERANS AFFAIRS MEDICAL CENTER
500 E VETERANS ST
TOMAH, WI 54660

CONSULTANTS:

PROJECT LEADER:

PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title: ELECTRICAL DETAILS & DIAGRAMS

Approved: Project Director

Project Title: Connect B406 AHU-5 to Emergency Power

Location: Tomah, Wisconsin

Date: November 20, 2025 | Checked By: HFB | Drawn By: SS

Project Number: 676-22-108

Building Number:

Drawing Number: E501

Office of Facilities Management

Department of Veterans Affairs

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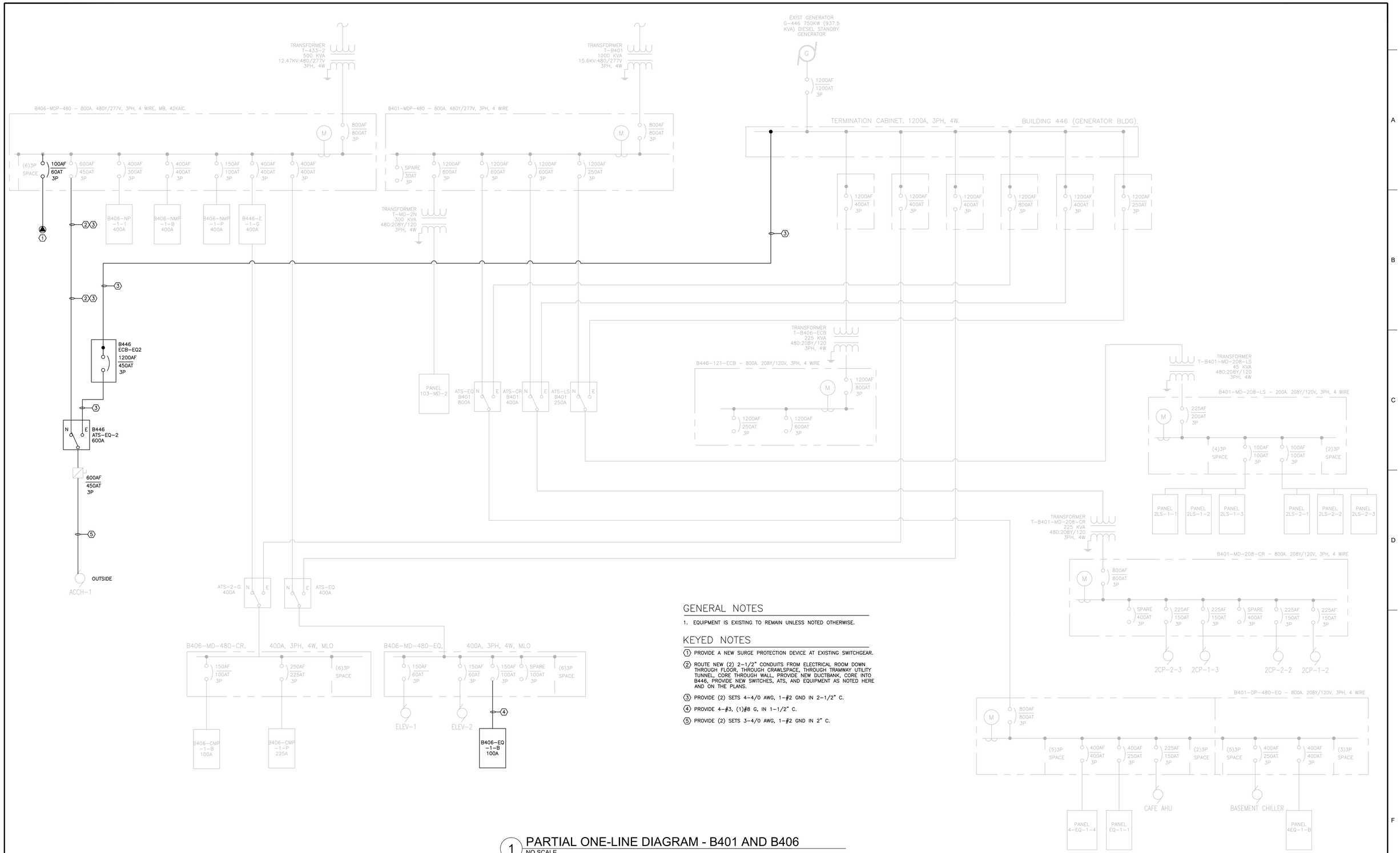

GENERAL NOTES

1. EQUIPMENT IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

KEYED NOTES

1. PROVIDE A NEW SURGE PROTECTION DEVICE AT EXISTING SWITCHGEAR.
2. ROUTE NEW (2) 2-1/2" CONDUITS FROM ELECTRICAL ROOM DOWN THROUGH FLOOR, THROUGH CRAWLSPACE, THROUGH TRAMWAY UTILITY TUNNEL, CORE THROUGH WALL, PROVIDE NEW DUCTBANK, CORE INTO B446, PROVIDE NEW SWITCHES, ATS, AND EQUIPMENT AS NOTED HERE AND ON THE PLANS.
3. PROVIDE (2) SETS 4-4/0 AWG, 1-#2 GND IN 2-1/2" C.
4. PROVIDE 4-#3, (1)#8 G, IN 1-1/2" C.
5. PROVIDE (2) SETS 3-4/0 AWG, 1-#2 GND IN 2" C.

1 PARTIAL ONE-LINE DIAGRAM - B401 AND B406

NO SCALE

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Revisions:	Date

VETERANS AFFAIRS MEDICAL CENTER
500 E VETERANS ST
TOMAH, WI 54660

CONSULTANTS:

PROJECT LEADER:

PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title	ELECTRICAL ONE-LINE DIAGRAM - NEW WORK
Approved: Project Director	
Project Title	Connect B406 AHU-5 to Emergency Power
Location	Tomah, Wisconsin
Date	November 20, 2025
Checked By:	HFB
Drawn By:	SJS
Project Number	676-22-108
Building Number	
Drawing Number	E601

Office of Facilities Management

Department of Veterans Affairs

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ELECTRICAL EQUIPMENT CONNECTION SCHEDULE

2SP = 2 SPEED MAGNETIC STARTER
CS = COMBINATION STARTER
EC = ELECTRICAL CONTRACTOR
ECP = ELEVATOR CONTROL PANEL
ELC = ELEVATOR CONTRACTOR
EX = EXISTING TO BE REUSED
FC = FUSE CLIP
FPC= FIRE PROTECTION CONTRACTOR
FU= FUSED
HOA = HAND - OFF - AUTO
IU = IN UNIT
LMRS - LOCAKBLE MOTOR RATED SWITCH
MAG = MAGNETIC STARTER
MC = MECHANICAL CONTRACTOR
MCA = MINIMUM CIRCUIT AMPS
MCC = MOTOR CONTROL CENTER
MFG = MANUFACTURER
MS = MOTOR RATED MANUAL SWITCH
NA = NOT APPLICABLE
NF = NON-FUSED
NU = NEAR UNIT
OU = ON UNIT
P = POLE
PC = PLUMBING CONTRACTOR
PKG = PACKAGED EQUIPMENT CONTROLLER
PL = PILOT LIGHT
PNL = PANEL
REC = RECEPTACLE
RVS = REDUCED VOLTAGE STARTER
TCP = TEMPERATURE CONTROL PNL
T-STAT = THERMOSTAT
VFD = VARIABLE FREQUENCY DRIVE
WP = WEATHERPROOF

EQUIP. DESIG.	EQUIPMENT DESCRIPTION	LOCATION	LOAD			EQUIPMENT		FEED FROM		BREAKER		BRANCH WIRING				STARTER			DISCONNECT				SEE
			KW	HP	AMPS	VOLTS	PHASE	PANEL	CKT	SIZE	POLE	NO.	SIZE	GROUND	CONDUIT	TYPE	SIZE	BY	TYPE	SIZE	FUSE	BY	NOTE #
EXISTING ACCH-1	CHILLER	OUTSIDE			394 MCA	480	3					SEE		ONE	LINE	-	-	-	-	-	-	-	
446-ACCU-1	CONDENSING UNIT	OUTSIDE			22 MCA	208	1	CP-1-G	22,24	30	2	2	12	12	1"	-	-	MFG	NU	-	-	MFG	1,2
446-FCU-1	FAN COIL UNIT	B446 EQUIPMENT				120	1	-	-	-	-		12	12	3/4"	-	-	-	-	-	-	-	
PUMP 5	CHILLER PUMP	BASEMENT		10		480	3	EQ-1-B	8,10,12	35	3	3	10	10	3/4"	VFD	-	-	VFD	-	-	-	
PUMP 6	CHILLER PUMP	BASEMENT		10		480	3	EQ-1-B	7,9,11	35	3	3	10	10	3/4"	VFD	-	-	VFD	-	-	-	
PUMP 7	CHILLER PUMP	BASEMENT		15		480	3	EQ-1-B	2,4,6	45	3	3	8	10	3/4"	VFD	-	-	VFD	-	-	-	
PUMP 8	CHILLER PUMP	BASEMENT		15		480	3	EQ-1-B	1,3,5	45	3	3	8	10	3/4"	VFD	-	-	VFD	-	-	-	

SCHEDULE GENERAL NOTES:

1. SCHEDULE INDICATES MINIMUM CONDUCTOR SIZE. INCREASE CONDUCTOR SIZE AS REQUIRED TO ACCOMMODATE FOR VOLTAGE DROP.
2. PROVIDE DISCONNECTS CAPABLE OF BEING LOCKED IN THE 'OPEN' POSITION.
3. REFER TO MECHANICAL SCHEDULES, SHEET M601 & M602 FOR ADDITIONAL INFORMATION.
4. EQUIPMENT TO BE MOUNTED ON THE ROOFTOP EXPOSED TO THE ELEMENTS SHALL BE NEMA 3R RATED.

SCHEDULE REFERENCE NOTES:

1. UNIT PROVIDED BY MC AND INSTALLED BY EC. LINE VOLTAGE POWER WIRING BY EC AND LOW VOLTAGE WIRING BY MC. INDOOR UNIT FED FROM OUTDOOR UNIT.
2. CIRCUITING SHOWN FOR INTENT. FIELD VERIFY AVAILABILITY OF EXISTING CIRCUITING.

PANEL B406-480-EQ-1-B -- 480Y/277V 3PH 4W 100A

CCT. NO.	BRKR.	DESCRIPTION	PHASE LOADING (KVA) A		B		C		DESCRIPTION	BRKR.	CCT. NO.
1	45/3	PUMP VFD P8	5.15	5.15					PUMP VFD P7	45/3	2
3					5.15	5.15					4
5							5.15	5.15			6
7	35/3	PUMP VFD P6	3.38	3.38					PUMP VFD P5	35/3	8
9					3.38	3.38					10
11							3.38	3.38			12
13	20/3	SPARE							SPARE	30/3	14
15											16
17											18
19	20/3	SPARE							SPACE		20
21									SPACE		22
23									SPACE		24
25		SPACE							SPACE		26
27									SPACE		28
29									SPACE		30

RATING

100 A 480Y/277 V 3 PH 4 W
MAIN LUGS MIN. AIC RATING 14,000 A

CONNECTED LOAD

PHASE A: 17.06 KVA
PHASE B: 17.06 KVA
PHASE C: 17.06 KVA
TOTAL KVA: 51.18 KVA
TOTAL A: 62 A AT 480V, 3PH

CALCULATED LOAD WITH NEC DEMAND FACTORS

CONTINUOUS LOAD X 125% 0.00 KVA
NON-CONTINUOUS LOAD 51.18 KVA
EXISTING LOAD X 125% 0.00 KVA
RECEPTACLE LOAD, ≤ 10 KVA 0.00 KVA
RECEPTACLE LOAD >10KVA @ 50% 0.00 KVA
KITCHEN LOAD @ 100% 0.00 KVA
PLUS 25% OF LARGEST MOTOR 0.00 KVA
TOTAL KVA 51.18 KVA
TOTAL A AT 480V, 3PH 62 A

NOTES:

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Revisions: Date

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TOMAH, WI 54660

CONSULTANTS:

PROJECT LEADER:

PCG DESIGN / BUILD SERVICES
1021 N. Superior, Unit 11
Tomah, Wisconsin 54660

Drawing Title: ELECTRICAL SCHEDULES

Approved: Project Director

Project Title: Connect B406 AHU-5 to Emergency Power

Location: Tomah, Wisconsin

Date: November 20, 2025 | Checked By: HFB | Drawn By: SJS

Project Number: 676-22-108

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