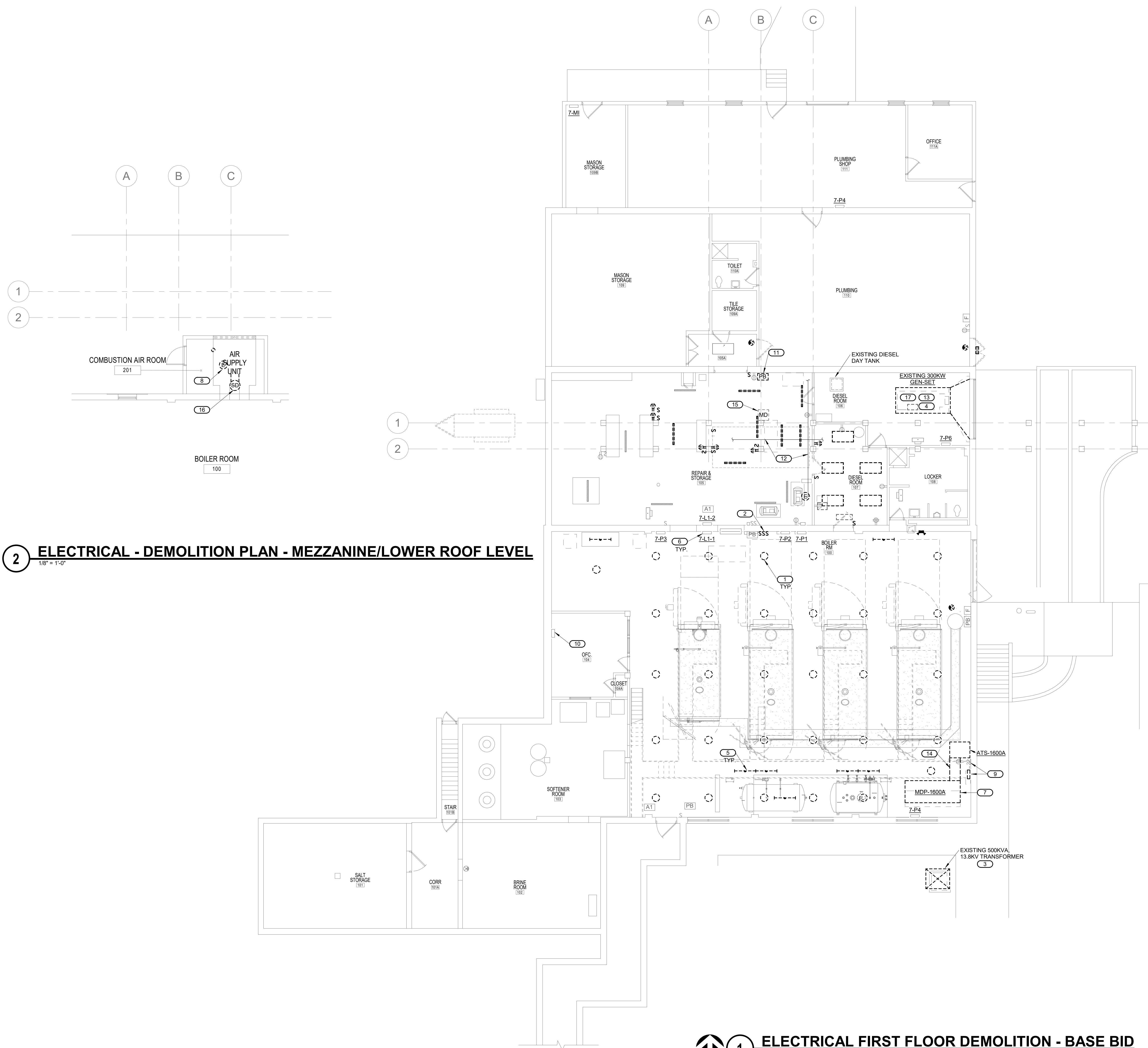


- ELECTRICAL DEMOLITION NOTES:**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION OF THE EXISTING ELECTRICAL INSTALLATION AS INDICATED ON THE DRAWINGS AS SPECIFIED HEREIN AND AS REQUIRED FOR A COMPLETE FUNCTIONING PROJECT.
  - THE EXISTING ELECTRICAL INSTALLATION AS SHOWN ON THE DRAWINGS MAY NOT BE COMPLETELY ACCURATE IN ALL RESPECTS WITH REGARD TO QUANTITIES, LOCATIONS, ETC., AND IS SHOWN PRIMARILY TO GENERALLY ILLUSTRATE THE DEGREE OF DEMOLITION WORK INVOLVED. DEMOLITION WORK SHALL BE ALL INCLUSIVE IN AREAS SHOWN.
  - STAGING AND PHASING OF ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE OTHER CONTRACTORS AND OWNER TO FACILITATE REMOVAL OF EXISTING MATERIAL AND EQUIPMENT. IN AREAS WHERE WORK INVOLVED MAY INTERFERE WITH EXISTING BUILDING OPERATIONS OR REQUIRE TEMPORARY OR PERMANENT CESSATION OR RELOCATION OF BUILDING FACILITIES, THE OWNER AND ARCHITECT/ENGINEER SHALL BE CONSULTED BEFOREHAND SO THAT WORK SCHEDULES CAN BE SET UP ACCEPTABLE TO ALL CONCERNED.
  - EXISTING OUTLETS:
    - WHERE EXISTING CONDUITS TERMINATE AT AN EXISTING OUTLET IN A WALL, CEILING, OR FLOOR TO BE REMOVED, CONTRACTOR SHALL DISCONNECT AND REMOVE DEVICE AND WIRE FROM CONDUIT AND CAP ABANDONED CONDUIT.
    - WHERE EXISTING CIRCUITS EXTEND BEYOND THE OUTLET IN THE EXISTING WALL, CEILING OR FLOOR TO BE REMOVED, CONTRACTOR SHALL FURNISH AND INSTALL NEW CONDUITS AND WIRE TO EITHER REROUTE THE CIRCUIT OR FEED THE REMAINING OUTLET(S) FROM ANOTHER ELECTRICAL SOURCE, BUT IN SUCH A MANNER AS NOT TO REVISE THE CIRCUIT FUNCTION.
    - WHERE EXISTING OUTLETS IN A WALL, CEILING OR FLOOR TO BE REMOVED ARE ESSENTIAL TO MAINTAIN OPERATION OF OTHER REMAINING OUTLETS, CONTRACTOR SHALL RELOCATE THE OUTLET TO A NEW CONVENIENT LOCATION. LIGHTING FIXTURES LOCATED IN AREAS WHERE CEILINGS OR WALLS ARE TO BE REPLACED SHALL BE TAKEN DOWN, CLEANED AND REINSTALLED ON NEW CEILING OR WALL UNLESS OTHERWISE NOTED. IF CONDUIT AND WIRING SERVING THESE FIXTURES MUST BE REMOVED TO PERMIT DEMOLITION WORK, NEW CONDUIT AND WIRE SHALL BE INSTALLED TO PROVIDE SAME CIRCUITING ARRANGEMENT AS ORIGINALLY PREVAILED.
  - EXISTING CONDUITS:
    - WHERE EXISTING CONDUIT AND WIRE RUNS ARE LOCATED IN OR ATTACHED TO AN EXISTING WALL, CEILING, OR FLOOR TO BE REMOVED, THEY SHALL BE REROUTED IN EITHER NEW CONSTRUCTION OR EXPOSED TO MAINTAIN CONTINUITY OF CIRCUITS UNLESS OTHERWISE APPROVED BY ENGINEER. EXPOSED CONDUITS SHALL BE SPECIFICALLY NOTED ON THE DRAWINGS OR APPROVED BY ENGINEER.
    - CONDUIT SHALL BE CONCEALED WITHIN THE EXISTING BUILDING CONSTRUCTION, EXCEPT WHERE OTHERWISE INDICATED ON THE DRAWINGS. IN ALL EXISTING AND REMODEL AREAS HAVING SUSPENDED CEILINGS, CONDUIT SHALL BE CONCEALED ABOVE CEILINGS.
    - EXISTING ABANDONED CONDUITS SHALL BE CAPPED AT TERMINATION AND SEALED AT ORIGINATION UNLESS OTHERWISE INDICATED ON DRAWINGS.
  - EXISTING WIRING:
    - EXISTING WIRE SHALL BE DISCONNECTED AND REMOVED WHEREVER EXISTING CIRCUITS ABANDONED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE.
    - EXISTING CONDUIT SHALL BE DISCONNECTED AND REMOVED WHERE ABANDONED AND EXPOSED, HOWEVER, MAY BE ABANDONED IN PLACE WHERE CONCEALED.
    - ABANDONED OUTLET BOXES SHALL BE REMOVED UNLESS CONCEALED BEHIND NEW CONSTRUCTION OR LOCATED WITHIN UNFINISHED SPACES.
  - EXISTING EQUIPMENT:
    - EXISTING EQUIPMENT, E.G., PANELBOARDS, SWITCHES, STARTERS, LIGHTING FIXTURES, CONDUIT, WIRE OUTLETS, ETC., SHOWN TO BE DEMOLISHED, SHALL BE DISCONNECTED AND REMOVED IN THEIR ENTIRETY INCLUDING ALL APPURTENANCES WHERE INDICATED ON THE DRAWINGS.
    - UNLESS OTHERWISE REQUESTED, OR HEREIN INDICATED, TO BE SALVAGED BY THE OWNER, ALL EXISTING REMOVED EQUIPMENT SHALL BE REMOVED FROM THE CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM THE SITE.
  - ALL NECESSARY EXISTING BUILDING SERVICE OR POWER INTERRUPTIONS REQUIRED FOR THE ELECTRICAL INSTALLATIONS SHALL BE SCHEDULED IN ADVANCE AS REQUIRED BY OWNER. NO INTERRUPTIONS WILL BE PERMITTED WITHOUT THE OWNER'S EXPLICIT PERMISSION. ALL REQUIRED INTERRUPTIONS SHALL BE ARRANGED DURING HOURS AND DAYS WHICH LEAST INCONVENIENCE THE OPERATION OF THE EXISTING FACILITY AND EACH OUTAGE SHALL BE AS SHORT AS POSSIBLE. TEMPORARY CONNECTIONS SHALL BE MADE AS REQUIRED TO PROVIDE CONTINUITY OF SERVICE.

- KEYNOTES: (#)**
- DISCONNECT AND REMOVE EXISTING HIGH BAY HID LIGHTING.
  - DISCONNECT AND REMOVE EXISTING LIGHT SWITCHES.
  - DEDUCT ALTERNATE #2 - EXISTING TRANSFORMER SHALL REMAIN AS PART OF DEDUCT ALTERNATE #2. REFER TO ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
  - DEDUCT ALTERNATE #1 - EXISTING GENERATOR SHALL REMAIN AS PART OF DEDUCT ALTERNATE #1. REFER TO ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
  - DISCONNECT AND REMOVE EXISTING FLUORESCENT STRIP LIGHTING.
  - EXISTING PANELBOARDS TO REMAIN, REFER TO ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
  - UNDER BASE BID, EXISTING SWITCHBOARD SHALL REMAIN UNTIL NEW SWITCHBOARD IS ENERGIZED, AND LOADS HAVE BEEN TRANSFERRED TO THE NEW SWITCHBOARD. REMOVE EXISTING EQUIPMENT PAD, PATCH, REPAIR, AND FINISH CONCRETE TO MATCH ADJACENT EXISTING.
  - DISCONNECT POWER, CONTROLS AND REMOVE DUCT SMOKE DETECTOR TO EXISTING MAKE UP AIR UNIT (MAU) AS PART OF DEDUCT ALTERNATE #3. MAU SHALL REMAIN.
  - EXISTING METERING EQUIPMENT SHALL BE DISCONNECTED AND REMOVED. EXISTING RECEPTACLE, LIGHT SWITCHES TO BE RELOCATED, AND RE-CIRCUITED TO AVOID NEW MCB.
  - EXISTING SST FACP TO REMAIN.
  - RELOCATE BOILER SHUT-OFF BUTTON AS SHOWN ON EP101.
  - CONTRACTOR SHALL RELOCATE ALL EXISTING BRANCH CIRCUITS, CABLING AND FEEDERS IN CONFLICT WITH NEW ELECTRICAL DISTRIBUTION EQUIPMENT.
  - AS PART OF DEDUCT ALTERNATE #1, CONTRACTOR SHALL REPLACE EXISTING RADIATOR AND HOSES, INCLUDE ALL REMOVAL AND RE-INSTALLATION OF DUCTWORK, AND ALL ACCESSORIES. INSTALL NEW GLYCOL TO MANUFACTURER'S RECOMMENDATIONS AND PROVIDE TESTING PER GENERATOR SPECIFICATIONS.
  - EXISTING CABLE TROUGH BETWEEN ATS AND SWITCHBOARD SHALL BE REMOVED. CONTRACTOR SHALL MODIFY EXISTING LAYOUT AS REQUIRED TO MAINTAIN EXISTING SYSTEM WHILE NEW ELECTRICAL SERVICE IS BEING INSTALLED.
  - EXISTING SECURITY SYSTEM MOTION SENSOR SHALL BE RELOCATED AS SHOWN ON SHEET EP101.
  - CONTRACTOR SHALL MAINTAIN CONNECTION TO MAKE-UP AIR STATUS SENSOR.
  - REMOVE EXISTING GENERATOR CONCRETE BASED.



**2 ELECTRICAL - DEMOLITION PLAN - MEZZANINE/LOWER ROOF LEVEL**  
1/8" = 1'-0"

**1 ELECTRICAL FIRST FLOOR DEMOLITION - BASE BID**  
1/8" = 1'-0"

6	CONSTRUCTION DOCUMENTS (CD - 100%)	11/1/20
5	CONSTRUCTION DOCUMENTS (CD - 85%)	8/14/20
4	DESIGN DEVELOPMENT (DD 2 - 75%)	5/22/20
3	DESIGN DEVELOPMENT (DD 1 - 50%)	3/20/20
2	SCHEMATIC DESIGN (SD 2 - 35%)	1/10/20
1	CONCEPTUAL DESIGN (SD 1 - 10%)	1/18/19
No.	REVISION	DATE

PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS - IMEG	CONSULTANTS
<b>IMEG</b>	
3001 BROADWAY STREET NE, SUITE 601 MINNEAPOLIS, MN 55413	PH: 612.540.5000 www.imegcorp.com

ARCHITECT/ENGINEER OF RECORD
<i>Bancroft</i>
BANCROFT ARCHITECTS + ENGINEERS
703 Nicholas Blvd, Suite 303 BK Grove Village, IL 60007 T: 847.952.9362 F: 847.952.9403 www.bancroft-ae.com BAE PROJECT NO. 18-118

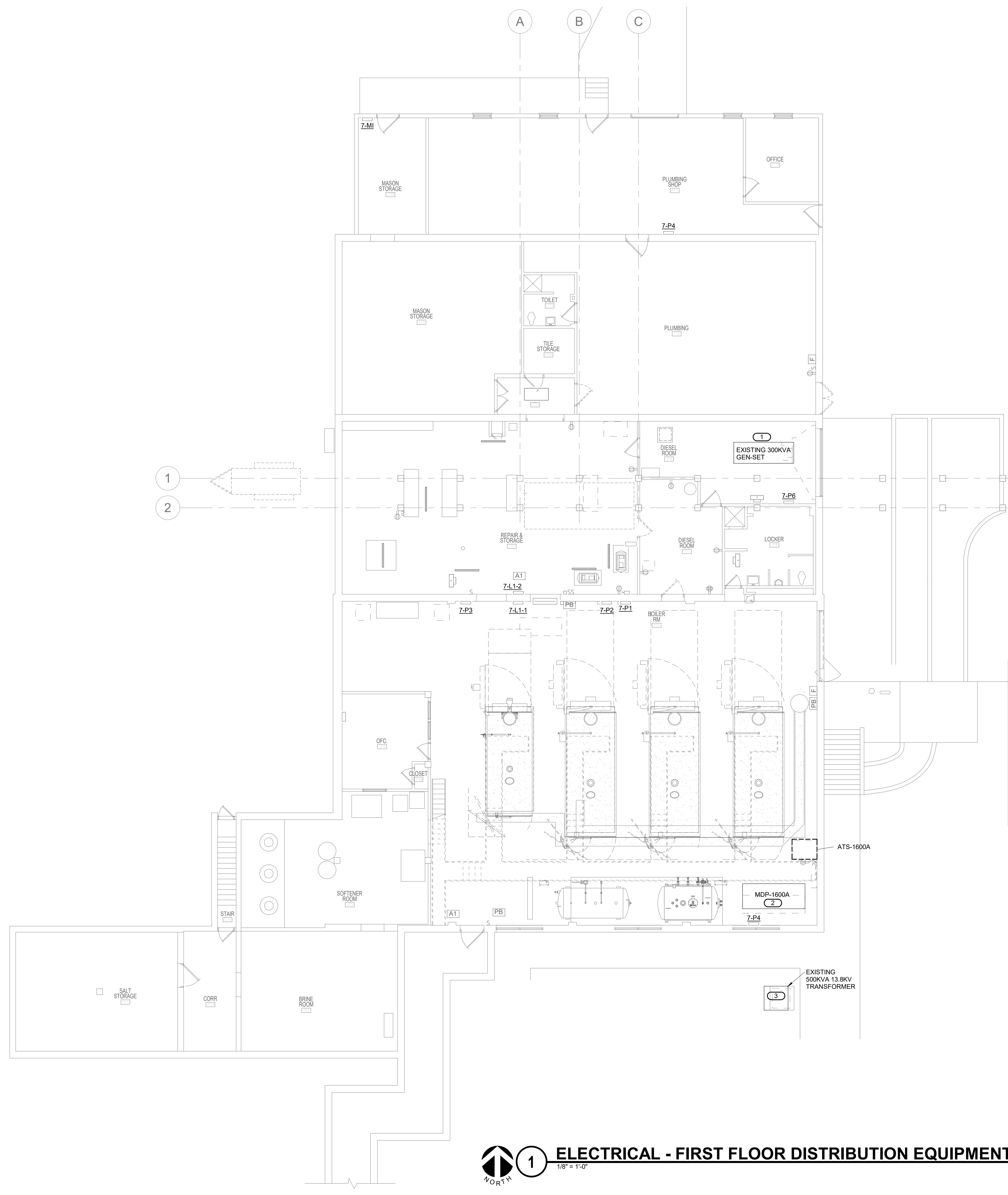
APPROVED PROJECT COP	DATE	APPROVED SERVICE LINE DIRECTOR	DATE	APPROVED INSPECTION CONTROL NUMBER	DATE
APPROVED ASSOCIATE HEALTHCARE SYSTEM DIRECTOR	DATE	APPROVED QMS PROJECT MANAGER	DATE	APPROVED PATIENT SAFETY	DATE
APPROVED PROJECTS SECTION MANAGER	DATE	APPROVED CHIEF OF POLICE	DATE	APPROVED CHIEF OF STAFF	DATE
APPROVED DIRECTOR FMS	DATE	APPROVED SAFETY MANAGER	DATE	APPROVED HEALTHCARE SYSTEM DIRECTOR	DATE

PROJECT TITLE	11/11/20
ELECTRICAL - DEMO PLANS - 1ST & MEZZ - BASE BID	PROJ SCALE
REPAIR/UPGRADE BOILER HOUSE SYSTEMS	PRIORITY NO.
	656-19310
BUILDING NO.	DRAWING NO.
7	EDP101
LOCATION	DATE
VAMEDICAL CENTER ST. CLOUD, MN 56303	

DESIGNED BY	DATE
CHKD BY	DATE
DATE	

**VA**

U.S. Department of Veterans Affairs  
Veterans Health Administration  
St. Cloud VA Health Care System



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  - C. STAGING AND PHASING OF ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE OTHER CONTRACTORS AND OWNER TO FACILITATE REMOVAL OF EXISTING MATERIAL AND EQUIPMENT. IN AREAS WHERE WORK INVOLVED MAY INTERFERE WITH EXISTING BUILDING OPERATIONS OR REQUIRE TEMPORARY OR PERMANENT CESSATION OR RELOCATION OF BUILDING FACILITIES, THE OWNER AND ARCHITECT/ENGINEER SHALL BE CONSULTED BEFOREHAND SO THAT WORK SCHEDULES CAN BE SET UP ACCEPTABLE TO ALL CONCERNED.
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- KEYNOTES: (B)**
1. DEDUCT ALTERNATE #1 - PROVIDE DEDUCT ALTERNATE TO RE-USE EXISTING GENERATOR, REFER TO ONE-LINES FOR ADDITIONAL INFORMATION, REFER TO KEYNOTE 13, SHEET EDP101.
  2. DEDUCT ALTERNATE #4 - PROVIDE DEDUCT ALTERNATE TO RE-USE EXISTING SWITCHBOARD, REFER TO ONE-LINES FOR ADDITIONAL INFORMATION.
  3. DEDUCT ALTERNATE #2 - PROVIDE DEDUCT ALTERNATE TO RE-USE EXISTING TRANSFORMER, REFER TO ONE-LINES FOR ADDITIONAL INFORMATION.

1
1/8" = 1'-0"
ELECTRICAL - FIRST FLOOR DISTRIBUTION EQUIPMENT DEMOLITION - DEDUCT ALTERNATES

No.	REVISION	DATE
6	CONSTRUCTION DOCUMENTS (CD - 100%)	11/11/20
5	CONSTRUCTION DOCUMENTS (CD - 95%)	8/14/20
4	DESIGN DEVELOPMENT (DD 2 - 75%)	5/22/20
3	DESIGN DEVELOPMENT (DD 1 - 50%)	3/20/20
2	SCHEMATIC DESIGN (SD 2 - 35%)	1/10/20
1	CONCEPTUAL DESIGN (SD 1 - 10%)	11/8/19

CONSULTANTS	
PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS: IMEG	
3001 BROADWAY PH: 612.540.5000 STREET NE, SUITE 601 www.imegcorp.com MINNEAPOLIS, MN 55413	

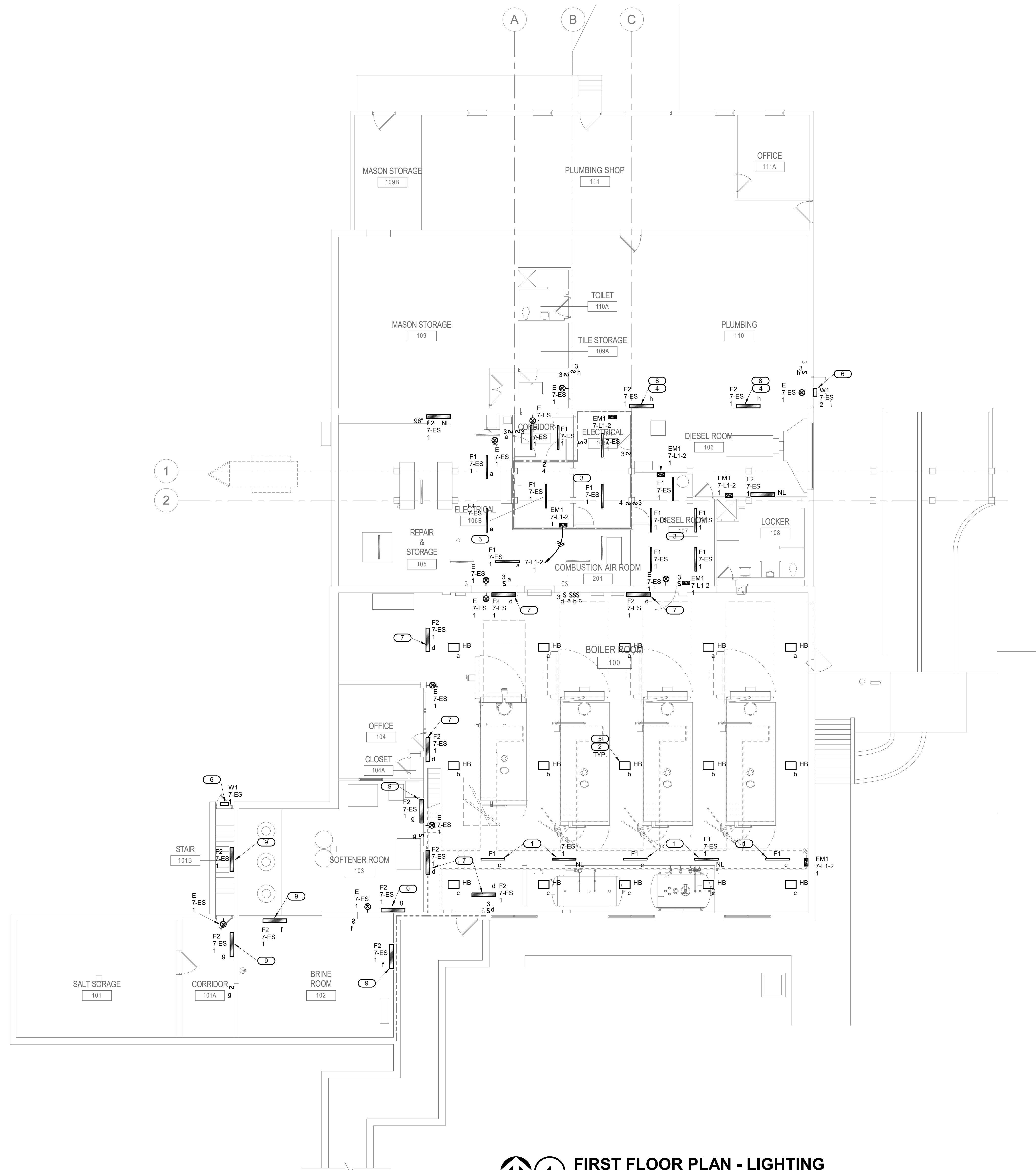
ARCHITECT/ENGINEER OF RECORD	
703 Nicholas Blvd, Suite 303 Elk Grove Village, IL 60007 T: 847.952.9362 F: 847.952.9403 www.bancroft-ae.com BAE PROJECT NO. 19-116	

APPROVED PROJECT COP	DATE	APPROVED SERVICE LINE DIRECTOR	DATE	APPROVED INSPECTION CONTROL NUMBER	DATE
APPROVED ASSOCIATE PROJECT MANAGER	DATE	APPROVED PATIENT SAFETY	DATE	APPROVED CHIEF OF POLICE	DATE
APPROVED PROJECTS SECTION MANAGER	DATE	APPROVED CHIEF OF POLICE	DATE	APPROVED SAFETY MANAGER	DATE
APPROVED DIRECTOR TAB	DATE	APPROVED SAFETY MANAGER	DATE		

PROJECT TITLE	DATE
ELECTRICAL - DEMO PLANS - 1ST & MEZZ - DEDUCT ALT	11/11/20
PROJECT FILE	PROJECT SCALE
REPAIR / UPGRADE BOILER HOUSE SYSTEMS	656-19-310
BUILDING NO.	DRAWING NO.
7	EDP102
DESIGNED BY	DATE
GJL	TKH
APPROVED HEALTH CARE SYSTEM DIRECTOR	DATE

LOCATION	DATE
VA MEDICAL CENTER ST. CLOUD, MN 56303	

**U.S. Department of Veterans Affairs**  
 Veterans Health Administration  
 St. Cloud VA Health Care System



- GENERAL NOTES:**
- A. COORDINATE LOCATION OF LUMINAIRES WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
  - B. MAINTAIN THE FIRE RATING WHEREVER FIRE RATED STRUCTURES ARE PENETRATED BY CONDUIT, LUMINAIRES, ETC. SEE ARCHITECTURAL DOCUMENTS FOR THE FIRE RATINGS OF ALL STRUCTURES.
  - C. PROVIDE A MINIMUM #10 AWG CONDUCTOR FOR HOMERUNS OVER 100 FEET FOR 120V AND 250 FEET FOR 277 VOLT.
  - D. TYPE EM1 EMERGENCY BATTERY UNITS SHALL BE CONNECTED TO UNSWITCHED LIGHTING CIRCUIT IN ROOM.
  - E. COORDINATE EXACT HEIGHT OF WALL MOUNTED "F2" FIXTURE WITH EXISTING CONDITIONS.
  - F. CONNECT SWITCHED EMERGENCY LIGHTS TO EXISTING LIGHTING CIRCUIT. REFER TO DETAIL S1500 FOR CONTROL OF EMERGENCY LIGHT FIXTURES. PROVIDE QUANTITY OF RELAYS AS REQUIRED.

- KEYNOTES: (#)**
- 1. MOUNT STRIP FIXTURE TO THE BOTTOM SIDE OF THE CAT WALK.
  - 2. MOUNT HIGH BAY FIXTURES AT 20' AFF. COORDINATE EXACT LOCATION WITH EXISTING EQUIPMENT IN SPACE. PROVIDE CONNECTION TO EXISTING LIGHTING CIRCUIT AND NEW LIGHTING CONTROL.
  - 3. PROVIDE UL 1008 SWITCHING RELAYS. REFER TO EMERGENCY LIGHTING CONTROL DETAIL ON SHEET E300.
  - 4. MOUNT LIGHTS ABOVE PIPING.
  - 5. PROVIDE CABLE MOUNTING TO SAME HEIGHT AS EXISTING. COORDINATE MOUNTING WITH EXISTING CONDITIONS. PROVIDE TWIST LOCK RECEPTACLE AT STRUCTURE.
  - 6. MOUNT LIGHT ABOVE DOOR AT SAME HEIGHT AS EXISTING WALL PACKS.
  - 7. MOUNT TYPE F2 LIGHT FIXTURE IN BOILER ROOM AT APPROXIMATELY 13'-0". VERIFY EXACT HEIGHT WITH EXISTING CONDITIONS.
  - 8. MOUNT LIGHT FIXTURE DIRECTLY BELOW CEILING.
  - 9. MOUNT LIGHT FIXTURE AT APPROXIMATELY 8'-0". VERIFY EXACT HEIGHT WITH EXISTING CONDITIONS.

**1 FIRST FLOOR PLAN - LIGHTING**  
1/8" = 1'-0"

No.	REVISION	DATE
6	CONSTRUCTION DOCUMENTS (CD-100%)	11/11/20
5	CONSTRUCTION DOCUMENTS (CD-85%)	8/14/20
4	DESIGN DEVELOPMENT (DD-75%)	5/22/20
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CONSULTANTS	
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ARCHITECT/ENGINEER OF RECORD	
<i>Bancroft</i>	BANCROFT ARCHITECTS + ENGINEERS
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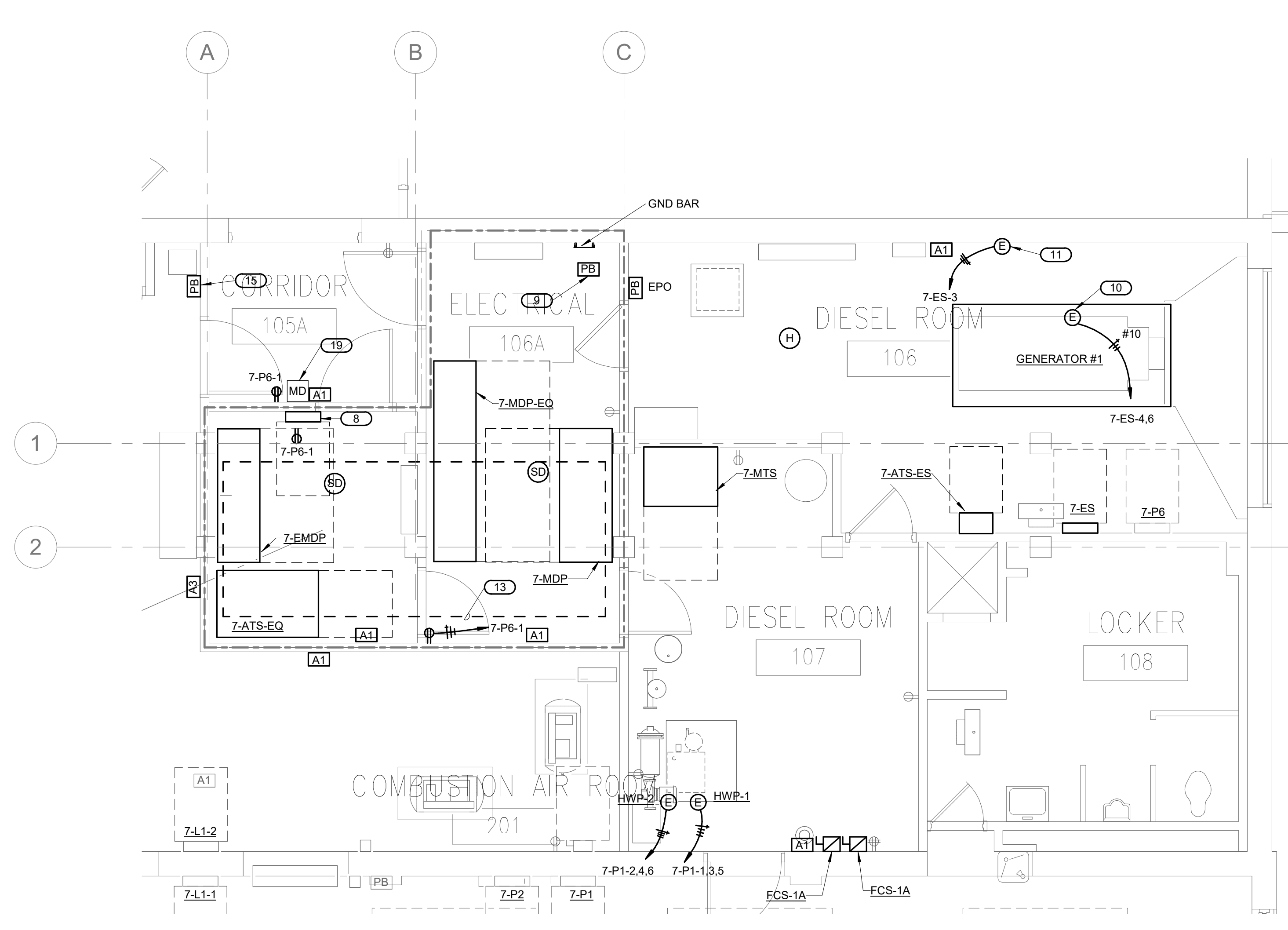
APPROVED PROJECT GIP	DATE	APPROVED SERVICE LINE DIRECTOR	DATE	APPROVED INSPECTION CONTROL NUMBER	DATE
APPROVED ASSOCIATE HEALTH CARE SYSTEM DIRECTOR	DATE	APPROVED PATIENT SAFETY	DATE	APPROVED CHIEF OF POLICE	DATE
APPROVED DIRECTOR TAB	DATE	APPROVED SAFETY MANAGER	DATE	APPROVED HEALTH CARE SYSTEM DIRECTOR	DATE

PROJECT TITLE		DATE
ELECTRICAL - LIGHTING PLAN - FIRST FLOOR		11/11/20
PROJECT FILE		PROJ SCALE
REPAIR/UPGRADE BOILER HOUSE SYSTEMS		656-19-310
BUILDING No.	7	DRAWING No.
DESIGNED BY	GJL	EL101
CHECKED BY	TKH	
LOCATION	VAMEDICAL CENTER ST. CLOUD, MN 56303	

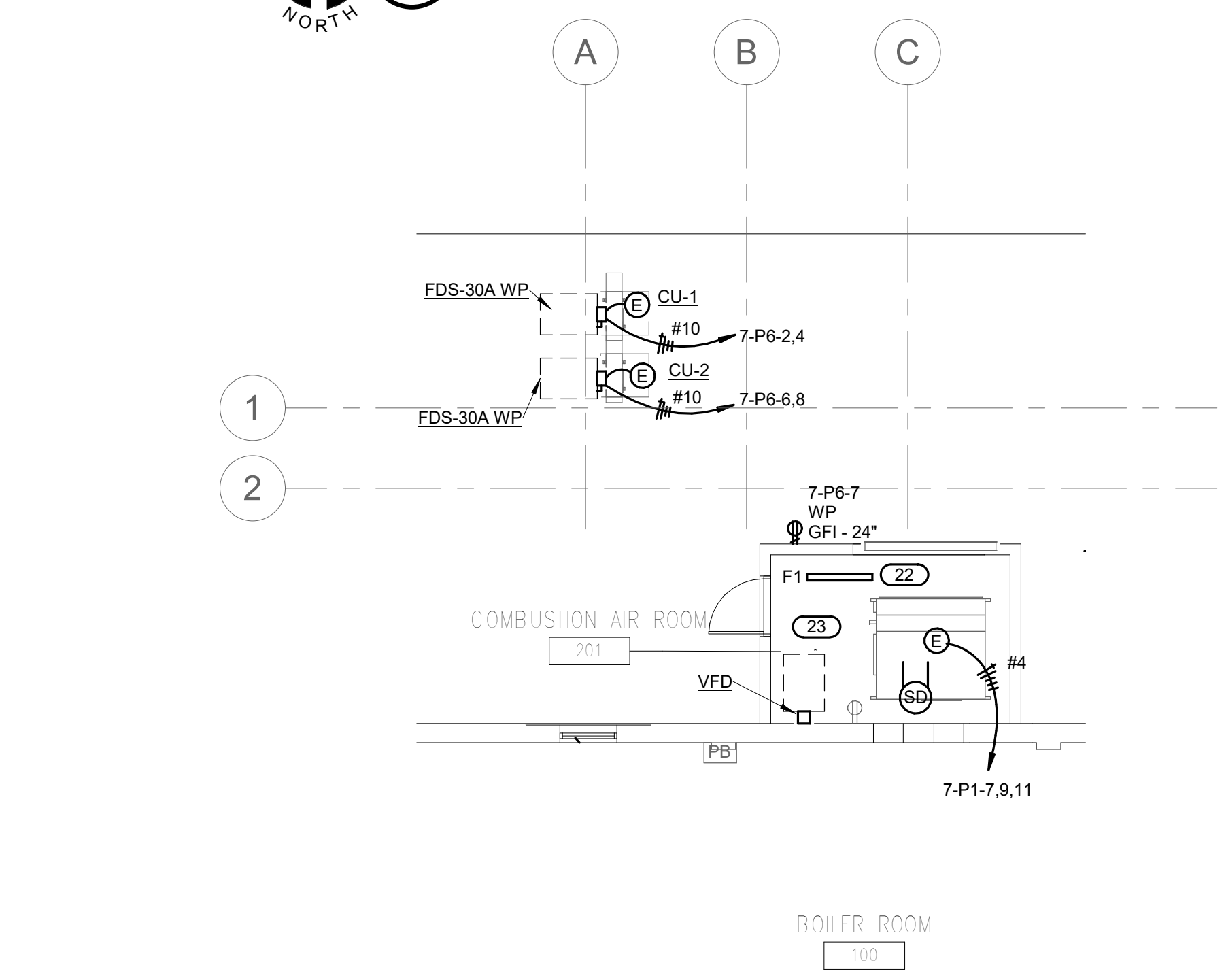
U.S. Department of Veterans Affairs	
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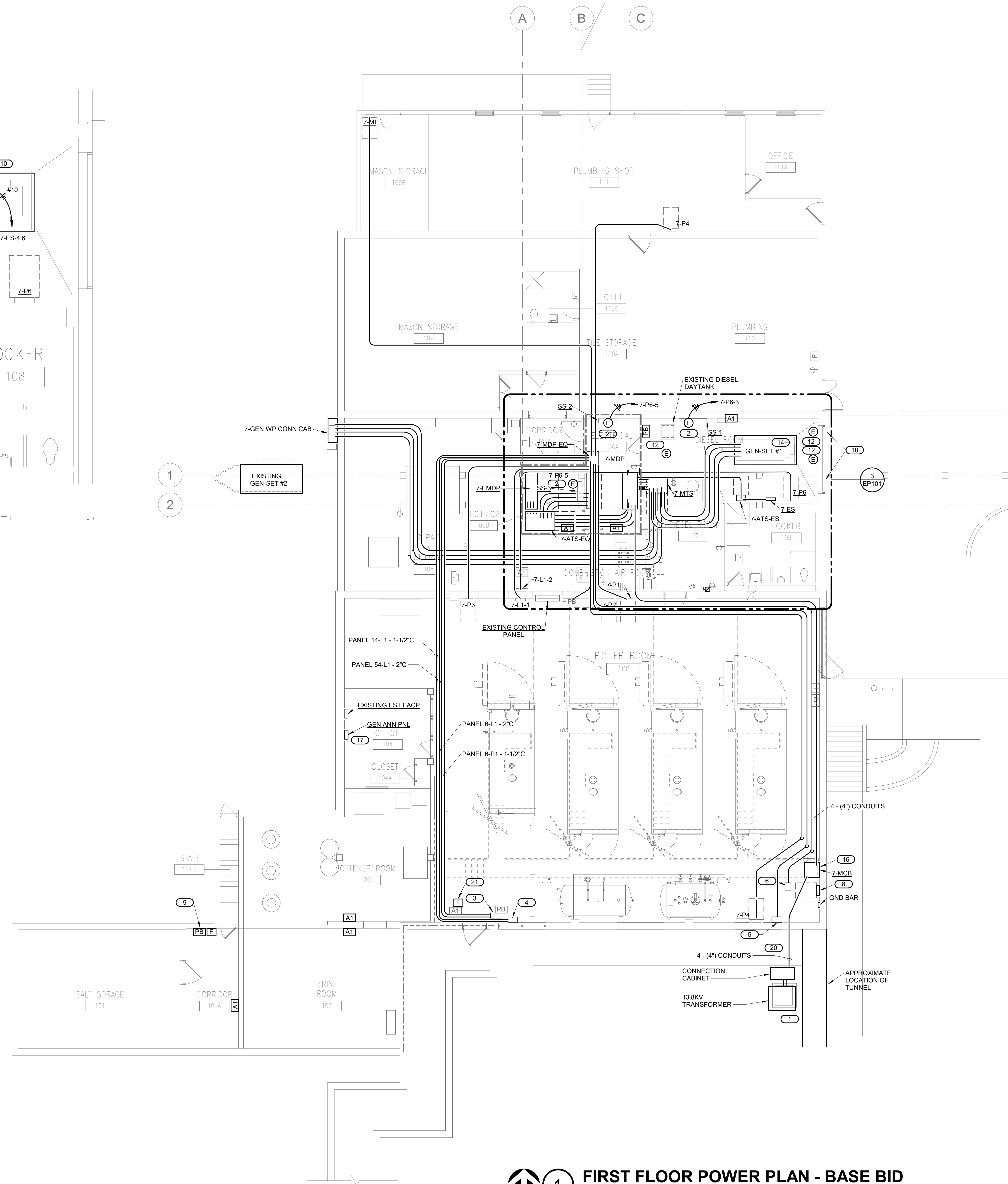




**3 ELECTRICAL ROOM ENLARGED PARTIAL PLAN**  
1/4" = 1'-0"



**2 ELECTRICAL - MEZZANINE LEVEL PLAN**  
1/8" = 1'-0"



**1 FIRST FLOOR POWER PLAN - BASE BID**  
1/8" = 1'-0"

- SHEET NOTES:**
- PROVIDE #10 AWG CONDUCTORS FOR ALL 120 VOLT HOMERUNS OVER 100 FEET.
  - COORDINATE WITH MECHANICAL CONTRACTORS FOR THE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT.
  - INSTALL ALL CONDUITS TO ROOFTOP EQUIPMENT THROUGH ROOF CURBS TO AVOID ADDITIONAL ROOF PENETRATIONS.
  - PROVIDE UPDATED DIRECTORIES FOR ALL NEW AND EXISTING PANELBOARDS.
  - REFER TO MECHANICAL DRAWINGS FOR DAMPER CONTROL INFORMATION.
  - REFER TO CONDUIT WALL SUPPORT DETAILS ON SHEET E300.

- KEYNOTES: (E)**
- IF DEDUCT ALTERNATE #2 IS ACCEPTED, AND DEDUCT ALTERNATE #4 IS NOT ACCEPTED, THE CONTRACTOR SHALL PROVIDE A CONNECTION CABINET FOR THE EXISTING TRANSFORMER, WHICH ALLOWS THE EXISTING AND NEW SWITCHBOARDS TO BE ENERGIZED AT THE SAME TIME. PROVIDE NEW PAD. ROTATE TRANSFORMER. CONTRACTOR SHALL ROTATE TRANSFORMER IN SUCH A WAY AS TO REUSE EXISTING MEDIUM VOLTAGE CONDUCTORS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING CONDUCTORS DURING TRANSFORMER WORK. CONTRACTOR SHALL REPLACE DAMAGED CONDUCTORS (TO MATCH EXISTING) AT NO ADDITIONAL COST TO OWNER. EXISTING TRANSFORMER PAD SHALL BE REPLACED TO HOUSE TRANSFORMER AND CONNECTION CABINET.
  - CONNECT SS-1 AND SS-2 TO CU-1 LOCATED ON ROOF.
  - INTERCEPT EXISTING FEEDERS TO BUILDING 6 AT NEW JUNCTION BOX FOR CONNECTION TO NEW FEEDERS FROM NEW SWITCHBOARD 7-MDP.
  - INTERCEPT EXISTING FEEDERS TO BUILDING 54 AND 14 AT NEW JUNCTION BOX FOR CONNECTION TO NEW FEEDERS FROM NEW SWITCHBOARD 7-MDP.
  - INTERCEPT EXISTING FEEDERS TO BUILDING 13 AND 87 AT NEW JUNCTION BOX FOR CONNECTION TO NEW FEEDERS FROM NEW SWITCHBOARD 7-MDP.
  - INTERCEPT EXISTING FEEDER TO BUILDING 91 AT NEW JUNCTION BOX FOR CONNECTION TO NEW FEEDERS FROM NEW SWITCHBOARD 7-MDP.
  - NOT USED.
  - NEW SQUARE D METER AND METERING EQUIPMENT AS BASIS OF DESIGN.
  - PROVIDE ADDITIONAL BOILER SHUT-OFF PUSH BUTTON, TYPE TO MATCH EXISTING.
  - PROVIDE CONNECTION TO GENERATOR COOLANT BLOCK HEATER.
  - PROVIDE CONNECTION TO GENERATOR BATTERY CHARGER.
  - PROVIDE CONNECTION TO MOTORIZED GENERATOR DAMPERS. PROVIDE 24VDC BATTERY CONNECTION WITH MAINTENANCE SWITCH AT GENERATOR. MAINTAIN POWER CONNECTION TO ALL DAMPER MOTORS.
  - SAW CUT AND REMOVE SLAB FOR NEW UNDER GROUND FEEDERS. XRAY/SCAN FLOOR PRIOR TO SAWCUTTING. ONLY HAND DIGGING ALLOWED. PROVIDE NEW CONCRETE SLAB TO MATCH EXISTING. DASHED LINE SHOWN IS SUGGESTED AREA OF SAW CUTTING.
  - CONTRACTOR SHALL REPLACE EXISTING GENERATOR RADIATOR WITH NEW UNIT. CONTRACTOR FOR REMOVAL OF DAMPERDUCT REMOVAL AND REINSTALLATION.
  - RELOCATED BOILER SHUT-OFF PUSH BUTTON. EXTEND CIRCUITING AS REQUIRED.
  - D RIP-PAN SHALL BE PROVIDED OVER MAIN CIRCUIT BREAKER. COORDINATE WITH ARCHITECT.
  - GENERATOR ANNUNCIATOR PANEL. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION.
  - CONTRACTOR SHALL MODIFY EXHAUST LOUVER OPENING IF NEEDED, FOR SIZE AS REQUIRED BY GENERATOR MANUFACTURER, AND PROVIDE LOUVER OF ADEQUATE DIMENSIONS AND TECHNICAL REQUIREMENTS AS REQUIRED BY THE GENERATOR MANUFACTURER.
  - RELOCATED SECURITY MOTION SENSOR. EXTEND CIRCUITING AS REQUIRED BY MANUFACTURER.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SIDEWALK REPLACEMENT AND SITE RESTORATION TO MATCH EXISTING CONDITIONS.
  - PROVIDE LABEL "FIRE ALARM PULL STATION" CIRCUIT.
  - CONTRACTOR SHALL SEAL CONDUITS BETWEEN PENTHOUSE AND FIRST FLOOR.

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6	CONSTRUCTION DOCUMENTS (CD - 100%)	11/11/20
5	CONSTRUCTION DOCUMENTS (CD - 95%)	8/14/20
4	DESIGN DEVELOPMENT (DD 2 - 75%)	5/22/20
3	DESIGN DEVELOPMENT (DD 1 - 50%)	3/20/20
2	SCHEMATIC DESIGN (SD 2 - 35%)	1/10/20
1	CONCEPTUAL DESIGN (SD 1 - 10%)	11/8/19

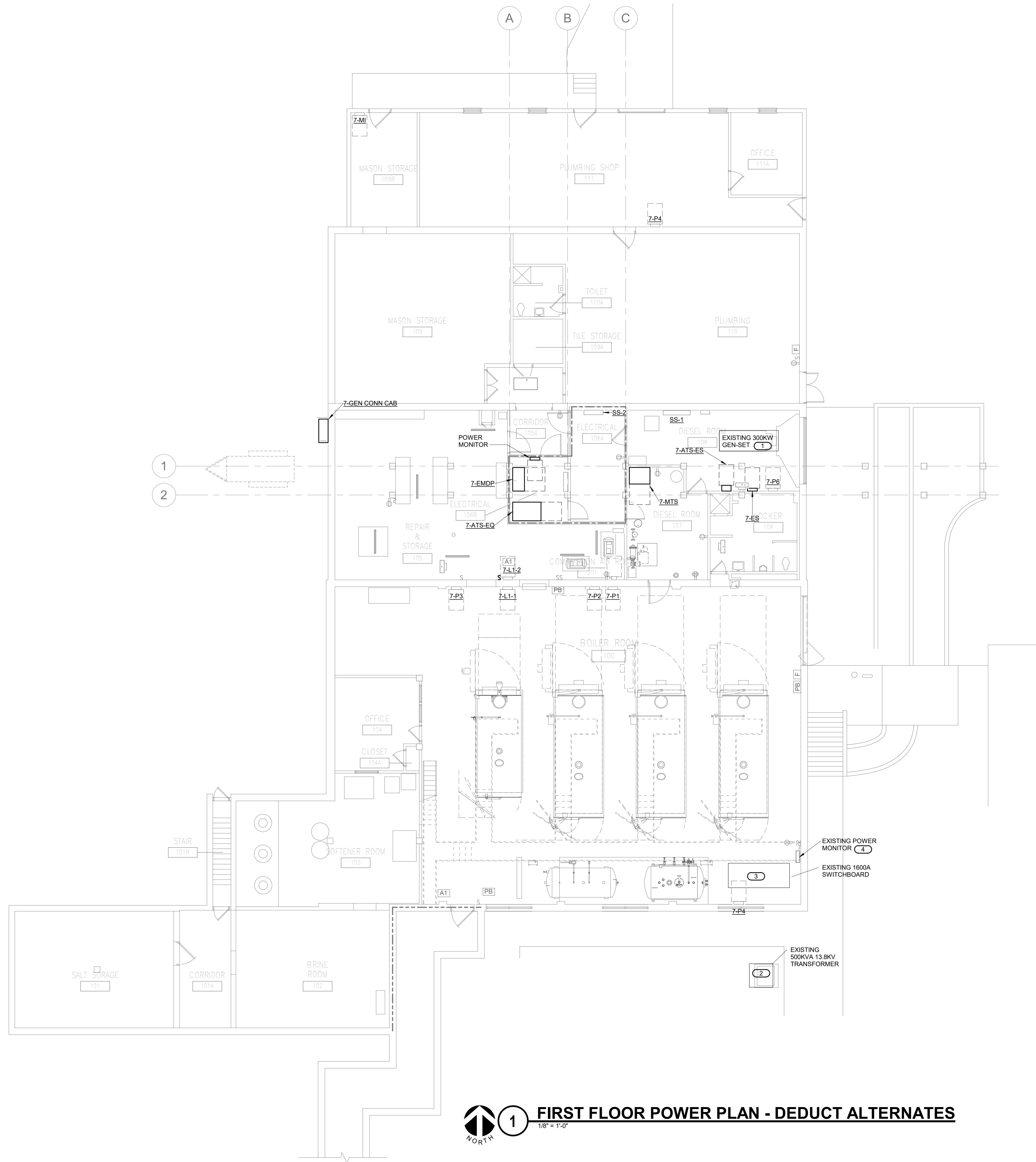
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ARCHITECT/ENGINEER OF RECORD	
<b>Bancroft</b>	
BANCROFT ARCHITECTS + ENGINEERS	
703 Nicholas Blvd, Suite 303 BK Grove Village, IL 60007 T: 847.952.9362 F: 847.952.9403 www.bancroft-ae.com BAE PROJECT NO. 19-119	

APPROVED PROJECT DIR.	DATE	APPROVED SERVICE LINE DIRECTOR	DATE	APPROVED INSPECTION CONTROL NUMBER	DATE
APPROVED GEN. PROJECT MANAGER	DATE	APPROVED PATIENT SAFETY	DATE	APPROVED ASSOCIATE HEALTH CARE SYSTEM DIRECTOR	DATE
APPROVED PROJECTS SECTION MANAGER	DATE	APPROVED CHIEF OF POLICE	DATE	APPROVED CHIEF OF STAFF	DATE
APPROVED DIRECTOR FIN.	DATE	APPROVED SAFETY MANAGER	DATE	APPROVED HEALTH CARE SYSTEM DIRECTOR	DATE

PROJECT TITLE	DATE	PROJECT FILE	DATE
ELECTRICAL - POWER - 1ST & MEZZANINE - BASE BID	11/11/20	REPAIR / UPGRADE BOILER HOUSE SYSTEMS	11/11/20
PROJECT NO.	656-19-310	DRAWING NO.	EP101
BUILDING NO.	7	DESIGNED BY	GJL
LOCATION	VA MEDICAL CENTER ST. CLOUD, MN 56303	DRAWN BY	TKH

VA	U.S. Department of Veterans Affairs
VA	Veterans Health Administration
VA	St. Cloud VA Health Care System



- SHEET NOTES:**
- A. PROVIDE #10 AWG CONDUCTORS FOR ALL 120 VOLT HOMERUNS OVER 100 FEET.
  - B. COORDINATE WITH MECHANICAL CONTRACTOR FOR THE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT.
  - C. INSTALL ALL CONDUITS TO ROOFTOP EQUIPMENT THROUGH ROOF CURBS TO AVOID ADDITIONAL ROOF PENETRATIONS.
  - D. PROVIDE UPDATED DIRECTORIES FOR ALL NEW AND EXISTING PANELBOARDS.
  - E. FEEDER ROUTING TO ELECTRICAL ROOM SHALL BE SIMILAR TO SHEET EP101.
  - F. ALL GENERAL POWER, SIGNAL, LIGHTING AND EQUIPMENT CONNECTIONS SHALL BE AS SHOWN ON SHEET EP101.

- KEYNOTES: #**
- 1. DEDUCT ALTERNATE #1 - PROVIDE DEDUCT ALTERNATE FOR EXISTING GENERATOR TO REMAIN. REFER TO ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
  - 2. AS PART OF DEDUCT ALTERNATE #2, EXISTING TRANSFORMER WILL REMAIN. REFER TO NOTE #1 ON SHEET EP101.
  - 3. DEDUCT ALTERNATE #4 - PROVIDE DEDUCT ALTERNATE FOR EXISTING 1600A SWITCHBOARD TO REMAIN. REFER TO ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
  - 4. DEDUCT ALTERNATE #4 - EXISTING POWER MONITOR TO REMAIN AS PART OF DEDUCT ALTERNATE #4. MAINTAIN ALL CONNECTIONS.

**1 FIRST FLOOR POWER PLAN - DEDUCT ALTERNATES**  
1/8" = 1'-0"

No.	REVISION	DATE
6	CONSTRUCTION DOCUMENTS (CD - 100%)	11/11/20
5	CONSTRUCTION DOCUMENTS (CD - 95%)	8/14/20
4	DESIGN DEVELOPMENT (DD 2 - 75%)	5/22/20
3	DESIGN DEVELOPMENT (DD 1 - 50%)	3/20/20
2	SCHEMATIC DESIGN (SD 2 - 35%)	1/10/20
1	CONCEPTUAL DESIGN (SD 1 - 10%)	11/8/19

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REFERENCE SCALE IN INCHES  
1" = 10'-0"

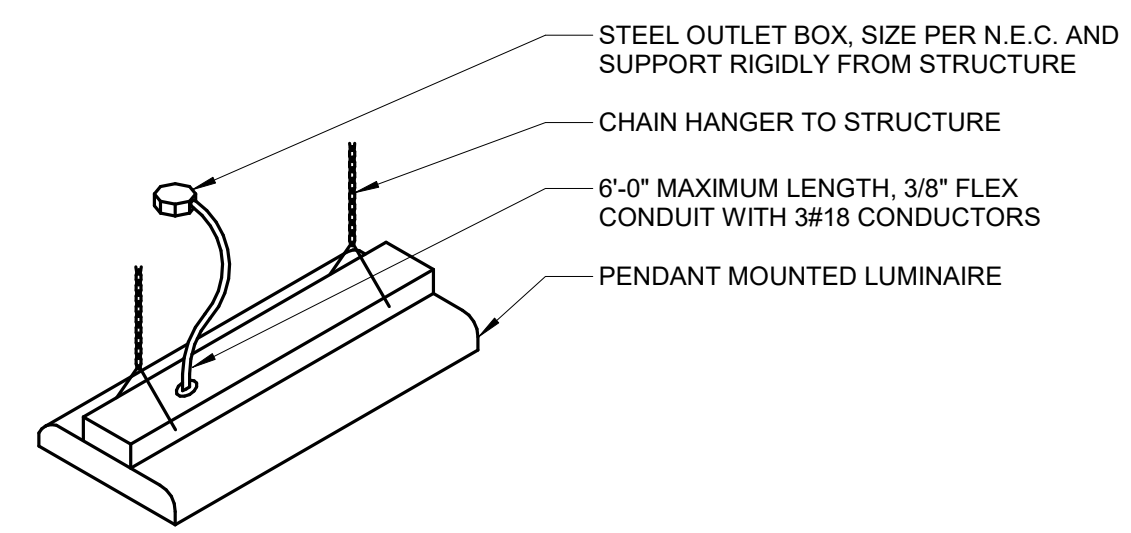
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T: 847.952.9362 F: 847.952.9403  
www.bancroft-ae.com BAE PROJECT NO. 19-119

APPROVED PROJECT GDR	DATE	APPROVED SERVICE LINE DIRECTOR	DATE	APPROVED INSPECTION CONTROL NUMBER	DATE
APPROVED GEM PROJECT MANAGER	DATE	APPROVED PATIENT SAFETY	DATE	APPROVED ASSOCIATE HEALTH CARE SYSTEM DIRECTOR	DATE
APPROVED PROJECTS SECTION MANAGER	DATE	APPROVED CHIEF OF POLICE	DATE	APPROVED CHIEF OF STAFF	DATE
APPROVED DIRECTOR FMS	DATE	APPROVED SAFETY MANAGER	DATE	APPROVED HEALTH CARE SYSTEM DIRECTOR	DATE

PROJECT TITLE <b>ELECTRICAL - POWER - FIRST FLOOR - DEDUCT ALT</b>	DATE <b>11/11/20</b>
PROJECT TITLE <b>REPAIR / UPGRADE BOILER HOUSE SYSTEMS</b>	PROJECT SCALE <b>656-19-310</b>
BUILDING No. <b>7</b>	DESIGNED BY <b>GJL</b>
LOCATION <b>VA MEDICAL CENTER ST. CLOUD, MN 56303</b>	DRAWN BY <b>TKH</b>

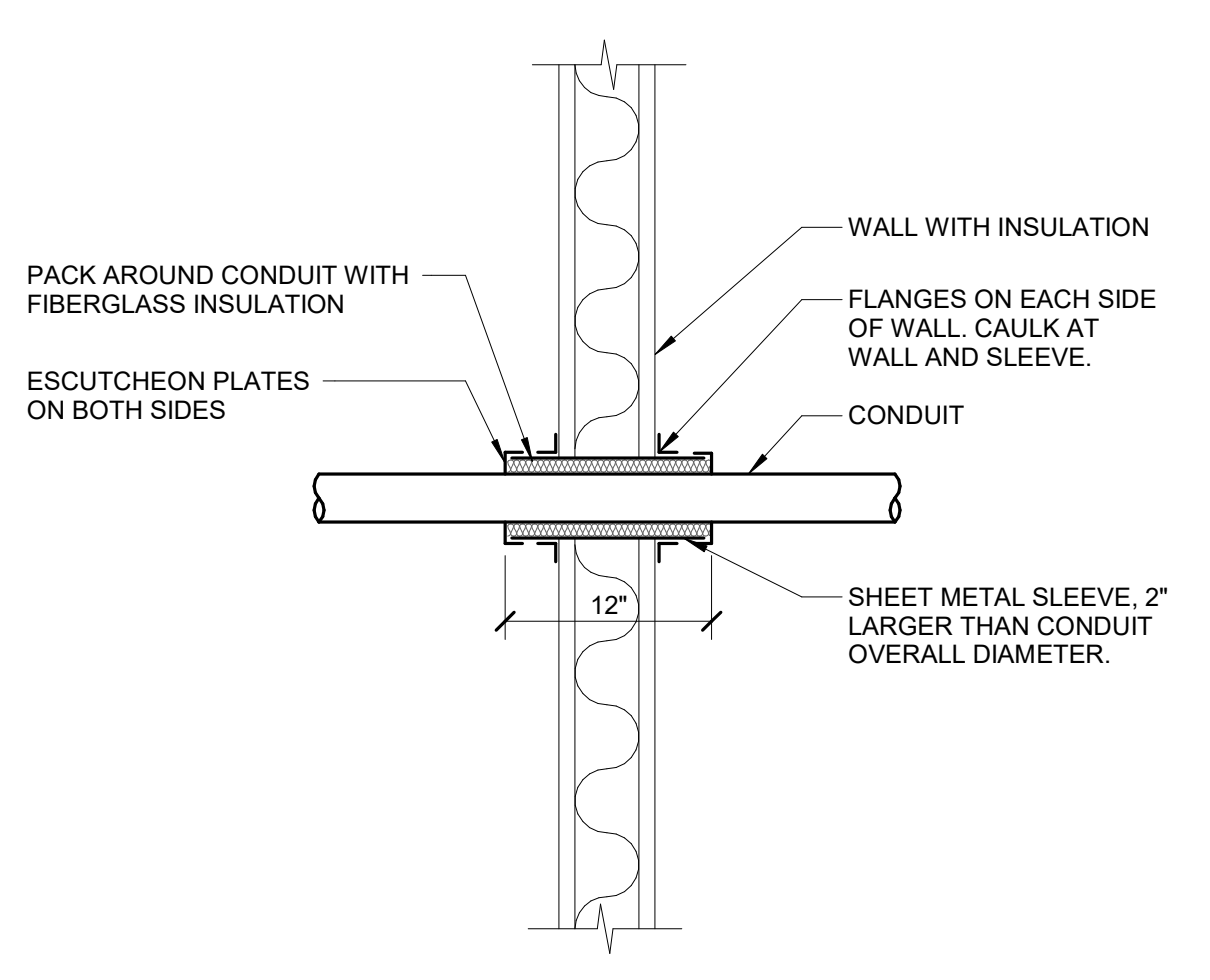
**VA**

U.S. Department of Veterans Affairs  
Veterans Health Administration  
St. Cloud VA Health Care System

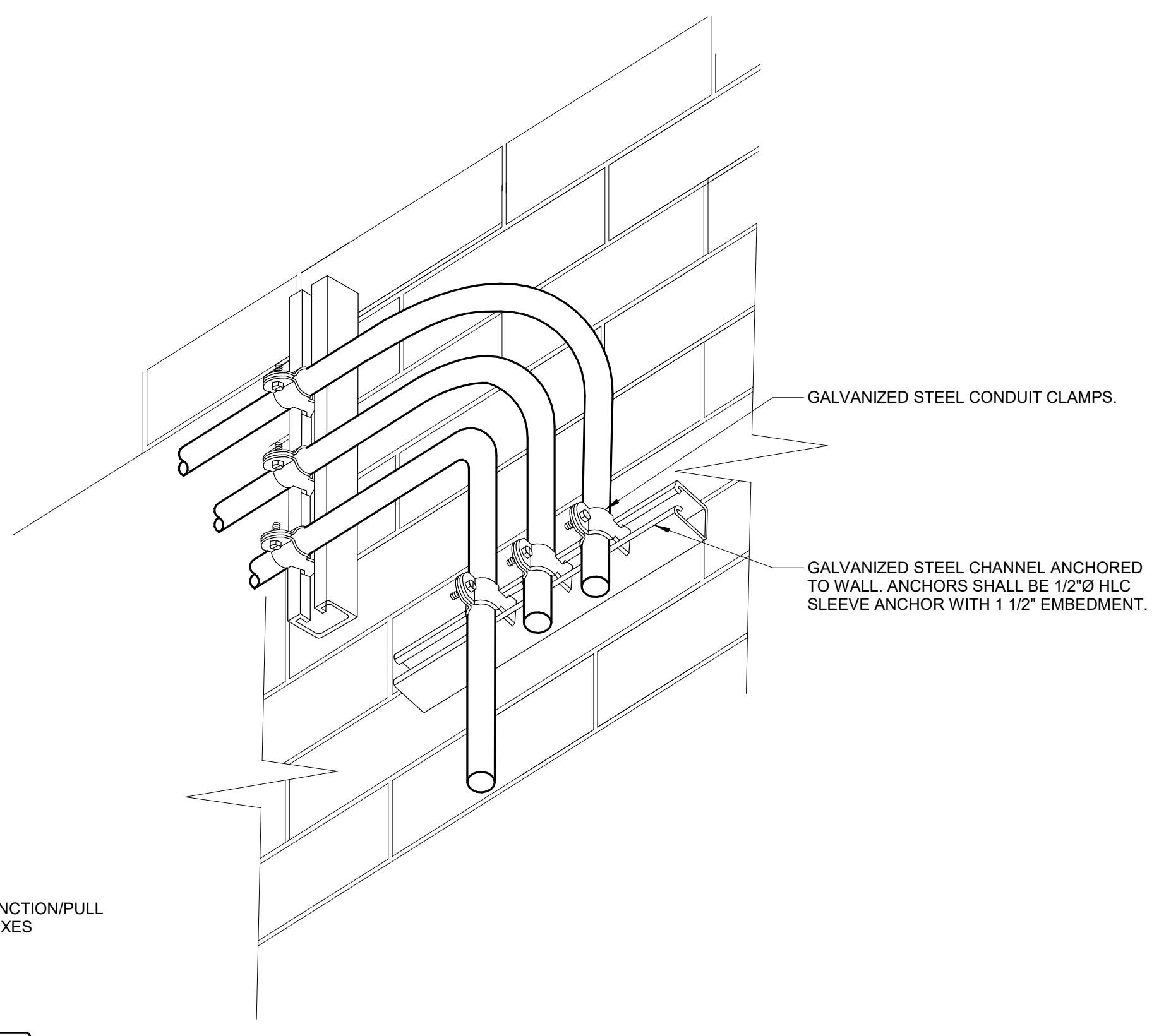


- NOTES:**
1. SELECT CHAIN LENGTH TO PROVIDE MOUNTING HEIGHT AS REQUIRED ON DRAWINGS.
  2. PROVIDE TWO CHAIN HANGERS FOR EACH LUMINAIRE. ADJUST TO HANG LUMINAIRE LEVEL.

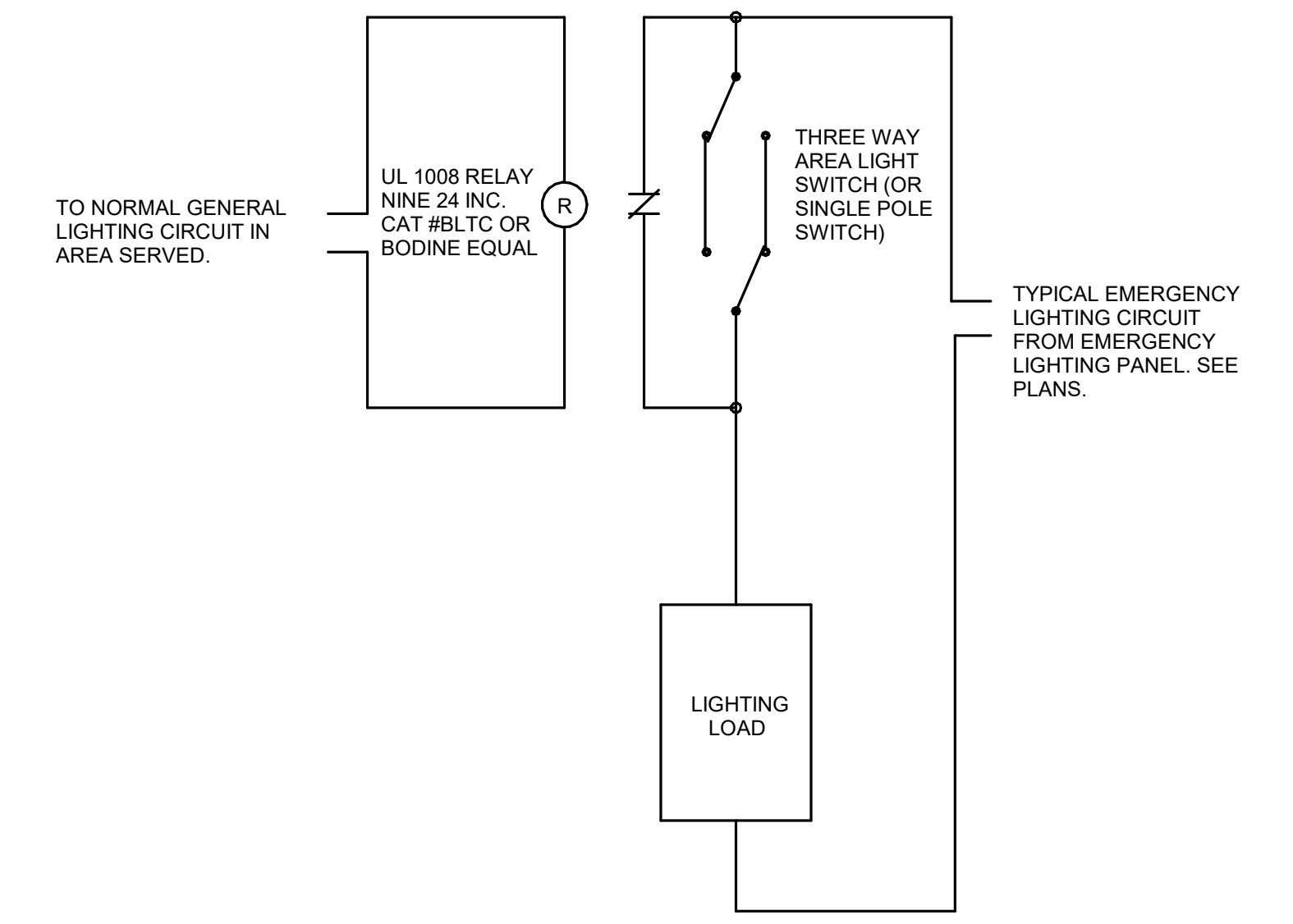
**1 CHAIN SUSPENDED MOUNTING DETAIL**  
NO SCALE



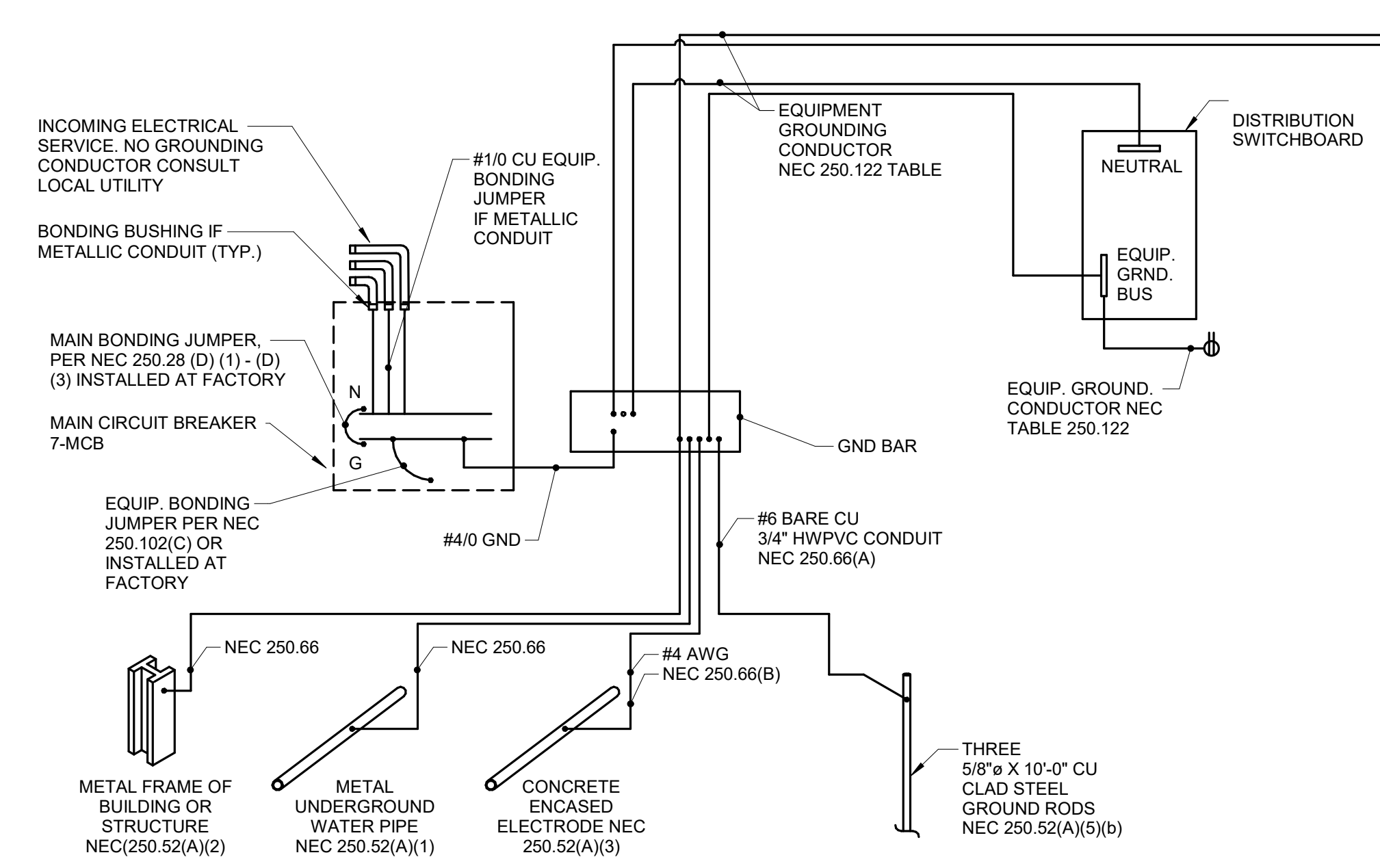
**2 CONDUIT WALL PENETRATION**  
NO SCALE



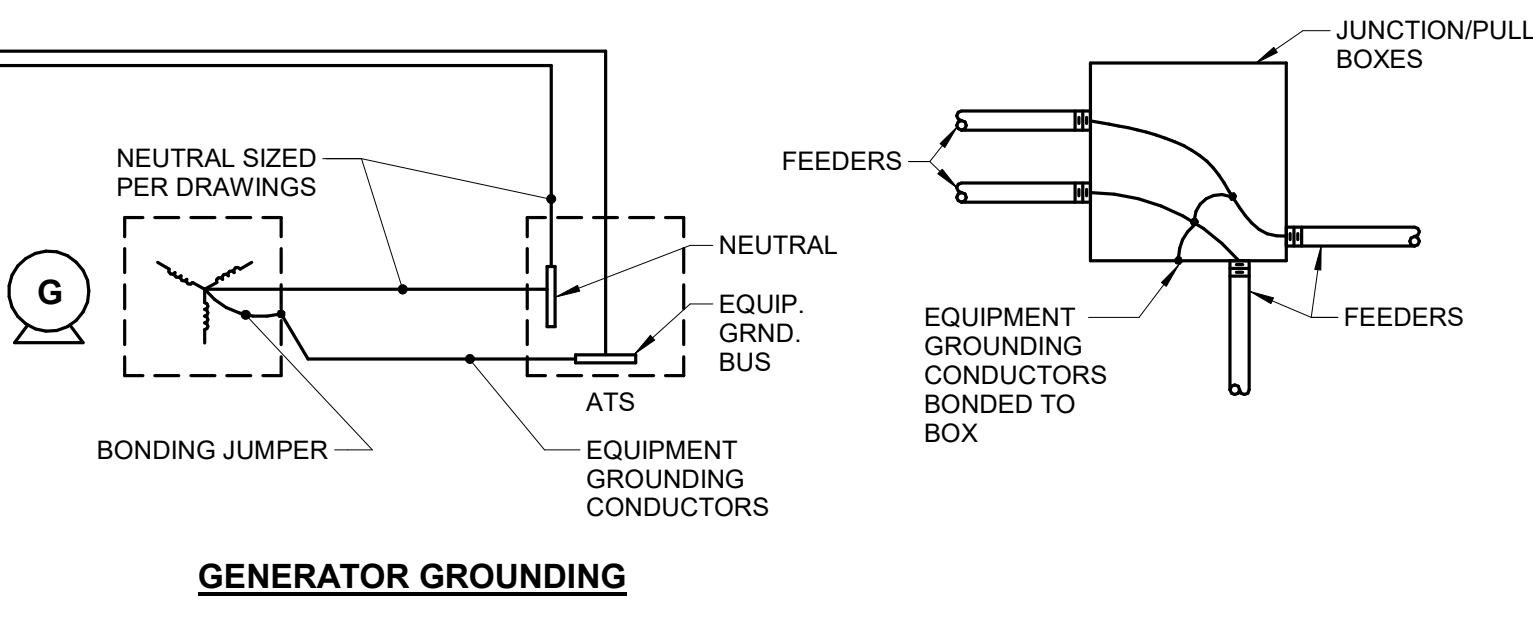
**3 CONDUIT WALL SUPPORT**  
NO SCALE



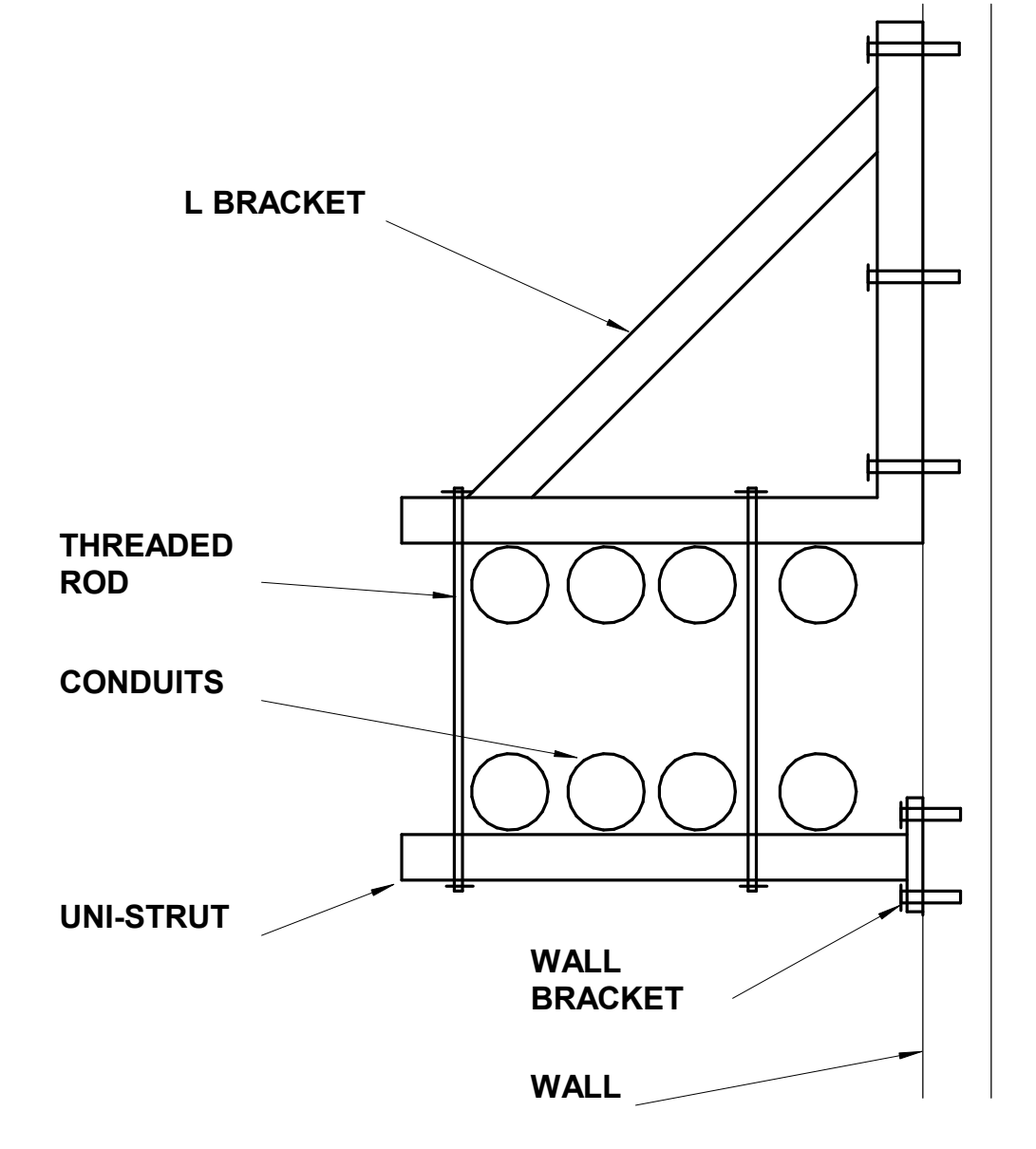
**5 EMERGENCY LIGHTING CONTROL DIAGRAM**  
NO SCALE



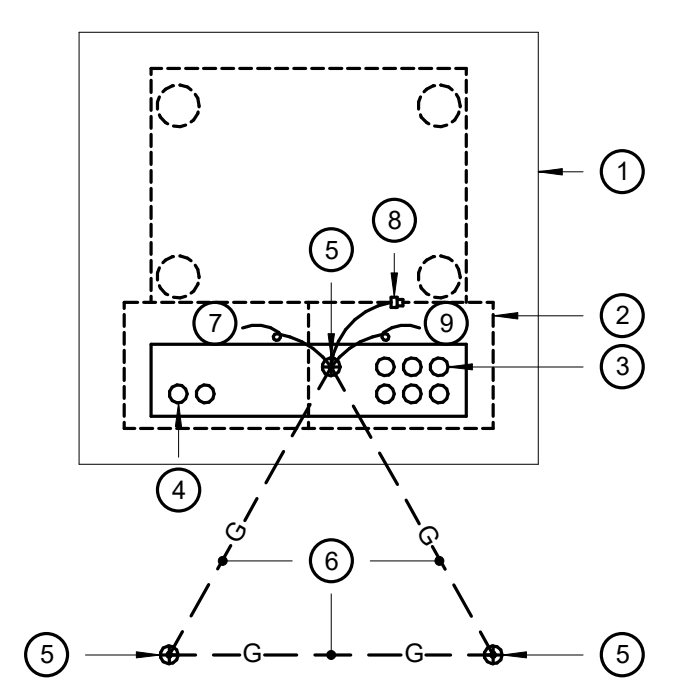
**4 ELECTRICAL SYSTEM GROUNDING DETAIL (BASE BID & DEDUCT ALTERNATES 1 THRU 3)**  
NO SCALE



**GENERATOR GROUNDING**

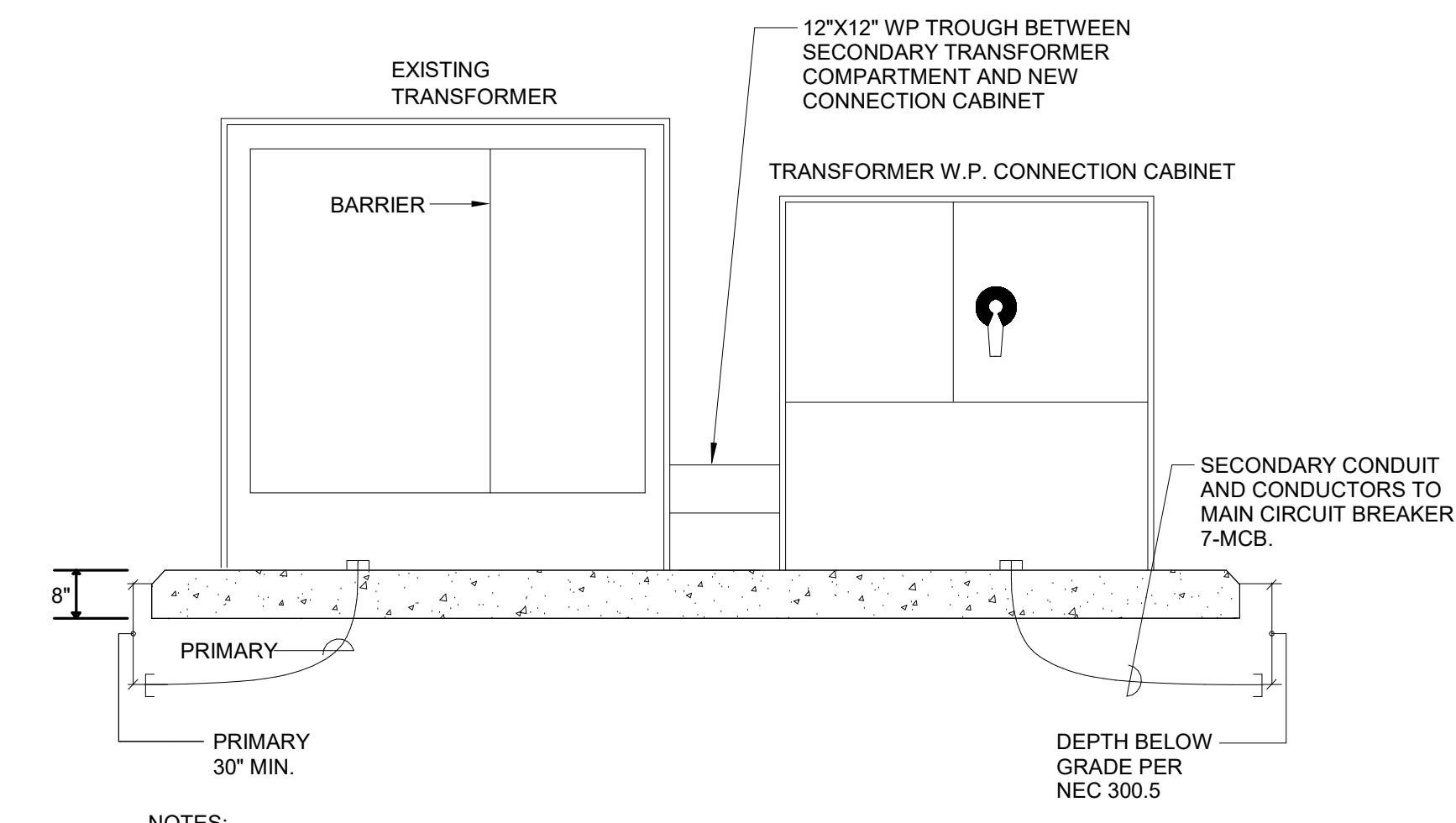


**6 CONDUIT WALL BRACKET**  
NO SCALE



- NOTES:**
1. TRANSFORMER PAD
  2. TRANSFORMER
  3. SECONDARY CONDUITS (TYPICAL)
  4. PRIMARY CONDUITS (TYPICAL)
  5. 5/8" x 10'-0" COPPERWELD GROUND ROD
  6. #2/0 BARE COPPER, CONNECT TO RODS WITH EXOTHERMIC WELD
  7. #2 BARE COPPER TO PRIMARY COMPARTMENT FOR GROUNDING CABLE SHIELDING
  8. #2 BARE COPPER TO TRANSFORMER CASE GROUND LUG
  9. #2 BARE COPPER TO NO TERMINAL OF TRANSFORMER FOR NEUTRAL/GROUND CONNECTION

**7 PAD MOUNTED TRANSFORMER GROUNDING DETAIL**  
NO SCALE



- NOTES:**
1. AIR ENTRAINED CONCRETE 4000 PSI AFTER 28 DAYS, MAX AGGREGATE 3/4".
  2. STEEL FLOAT FINISH.
  3. REINFORCEMENT: TYPE A-305 NEW BILLET STOCK A.S.T.M GRADE 60.
  4. ALL REINFORCING SHALL BE #4 BAR. WIRE TIE ALL CROSSINGS.
  5. IF THE ANTICIPATED FORECAST TEMPERATURE 35 DEGREES OR LESS, THE PAD SHALL BE INSULATED WITH EITHER BLANKETS, OR POLY AND STRAW FOR A MINIMUM OF 3 DAYS.
  6. APPLY MEMBRANE CURING COMPOUND, MEETING A.S.T.M C-309, AT MANUFACTURERS PRESCRIBED RATE AFTER REMOVAL OF FORMS.
  7. CHAMFERED EDGE ALONG OUTSIDE EDGES SHALL BE 1".
  8. A SAFE OPERATING CLEARANCE OF A MINIMUM OF 6' IS NEEDED IN FRONT OF THE TRANSFORMER.
  9. 6" PRIMARY SWEEP SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
  10. PAD SHALL BE RECTANGULAR AND EXTEND 6 INCHES FURTHER THAN THE EQUIPMENT.
  11. CONNECTION CABINET PAINTED TO MATCH TRANSFORMER.
  12. COORDINATE PRIMARY AND SECONDARY OPENING IN SLAB WITH TRANSFORMER MANUFACTURER.

**8 MAIN ELECTRICAL SERVICE DETAIL - (DEDUCT ALTERNATE #2, WITHOUT DEDUCT ALTERNATE #4)**  
NO SCALE

No	REVISION	DATE
6	CONSTRUCTION DOCUMENTS (CD - 100%)	11/11/20
5	CONSTRUCTION DOCUMENTS (CD - 95%)	8/14/20
4	DESIGN DEVELOPMENT (DD 2 - 75%)	5/22/20
3	DESIGN DEVELOPMENT (DD 1 - 50%)	3/20/20
2	SCHEMATIC DESIGN (SD 2 - 35%)	1/10/20
1	CONCEPTUAL DESIGN (SD 1 - 10%)	11/8/19

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APPROVED PROJECT GIP	DATE	APPROVED SERVICE LINE DIRECTOR	DATE	APPROVED INSPECTION CONTROL NUMBER	DATE
APPROVED GEM PROJECT MANAGER	DATE	APPROVED PATIENT SAFETY	DATE	APPROVED ASSOCIATE HEALTHCARE SYSTEM DIRECTOR	DATE
APPROVED PROJECTS SECTION MANAGER	DATE	APPROVED CHIEF OF POLICE	DATE	APPROVED CHIEF OF STAFF	DATE
APPROVED DIRECTOR FMS	DATE	APPROVED SAFETY MANAGER	DATE	APPROVED HEALTHCARE SYSTEM DIRECTOR	DATE

PROJECT TITLE	DATE
ELECTRICAL - DETAILS	11/11/20
PROJECT FILE	PROJ SCALE
REPAIR / UPGRADE BOILER HOUSE SYSTEMS	656-19-310
BUILDING No.	DRAWING No.
7	E300
LOCATION	DATE
VA MEDICAL CENTER ST. CLOUD, MN 56303	

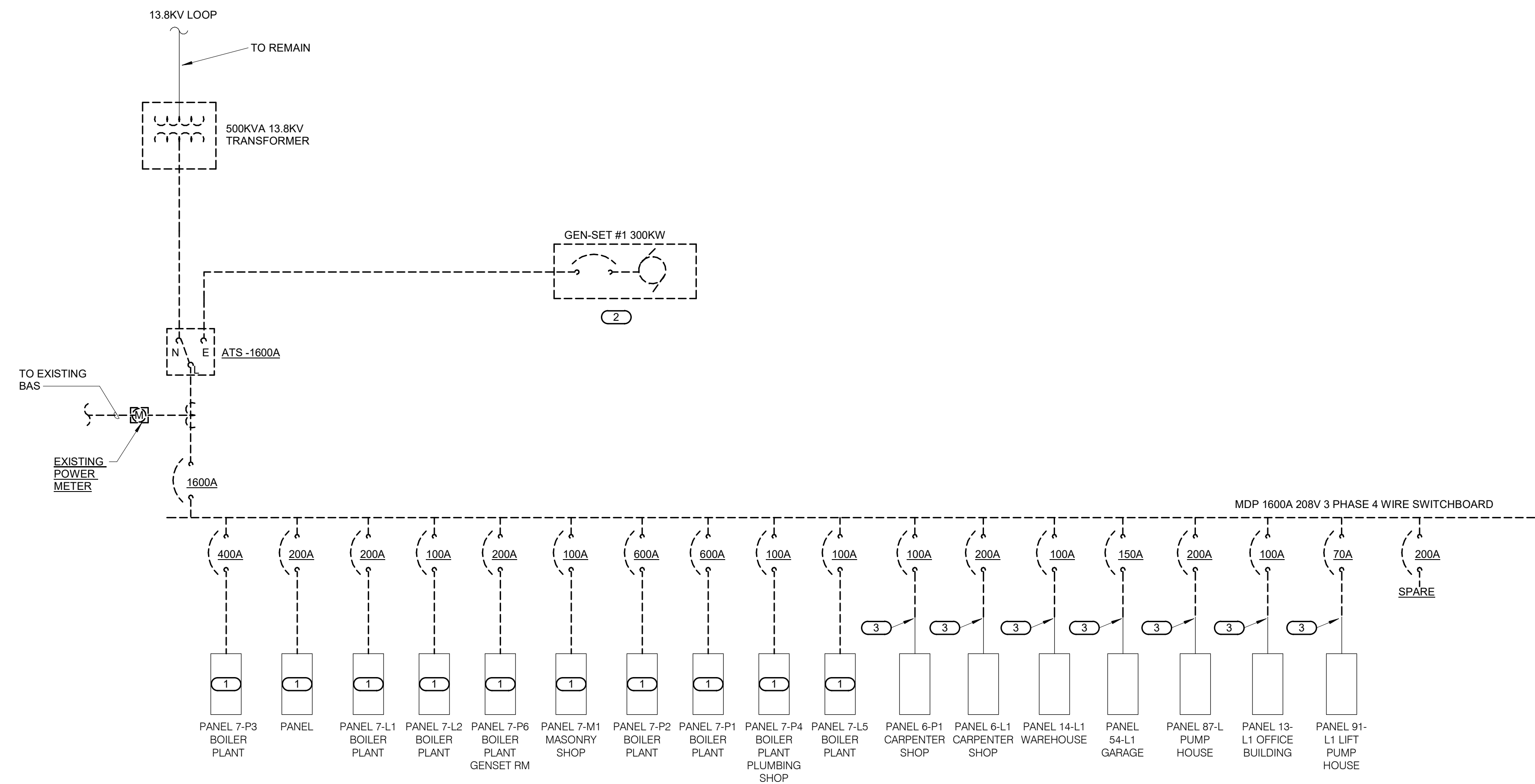
PROJECT TITLE	DATE
REPAIR / UPGRADE BOILER HOUSE SYSTEMS	11/11/20
BUILDING No.	DRAWING No.
7	E300
LOCATION	DATE
VA MEDICAL CENTER ST. CLOUD, MN 56303	

**VA**

U.S. Department of Veterans Affairs  
Veterans Health Administration  
St. Cloud VA Health Care System

**SHEET NOTES:**  
 A. CONTRACTOR SHALL MAINTAIN POWER DURING CONSTRUCTION. ALL POWER OUTAGES SHALL BE COORDINATED WITH OWNER AND A/E TEAM.

**KEYNOTES:** #  
 1. EXISTING PANELBOARD AND BRANCH CIRCUITING TO REMAIN. DEMOLISH EXISTING FEEDER CONDUITS AND CONDUCTORS SERVING PANELBOARD.  
 2. DISCONNECT AND REMOVE EXISTING DIESEL GENERATOR AND CONTROLS.  
 3. INTERCEPT EXISTING FEEDER FOR PANELBOARDS SERVING OTHER BUILDINGS. REFER TO SHEET EP101 FOR NEW JUNCTION BOX INTERCEPTION LOCATIONS.



**1 BUILDING #7 BOILER HOUSE ONE-LINE DIAGRAM DEMOLITION - BASE BID**  
 NO SCALE

6	CONSTRUCTION DOCUMENTS (CD - 100%)	11/11/20
5	CONSTRUCTION DOCUMENTS (CD - 95%)	8/14/20
4	DESIGN DEVELOPMENT (DD 2 - 75%)	5/22/20
3	DESIGN DEVELOPMENT (DD 1 - 50%)	3/20/20
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1	CONCEPTUAL DESIGN (SD 1 - 10%)	11/8/19
No	REVISION	DATE

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REFERENCE SCALE IN INCHES

ARCHITECT/ENGINEER OF RECORD

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APPROVED PROJECT COP	DATE	APPROVED SERVICE LINE DIRECTOR	DATE	APPROVED INSPECTION CONTROL NUMBER	DATE
APPROVED GENSET PROJECT MANAGER	DATE	APPROVED PATIENT SAFETY	DATE	APPROVED ASSOCIATE HEALTHCARE SYSTEM DIRECTOR	DATE
APPROVED PROJECTS SECTION MANAGER	DATE	APPROVED CHIEF OF POLICE	DATE	APPROVED CHIEF OF STAFF	DATE
APPROVED DIRECTOR TAB	DATE	APPROVED SAFETY MANAGER	DATE	APPROVED HEALTHCARE SYSTEM DIRECTOR	DATE

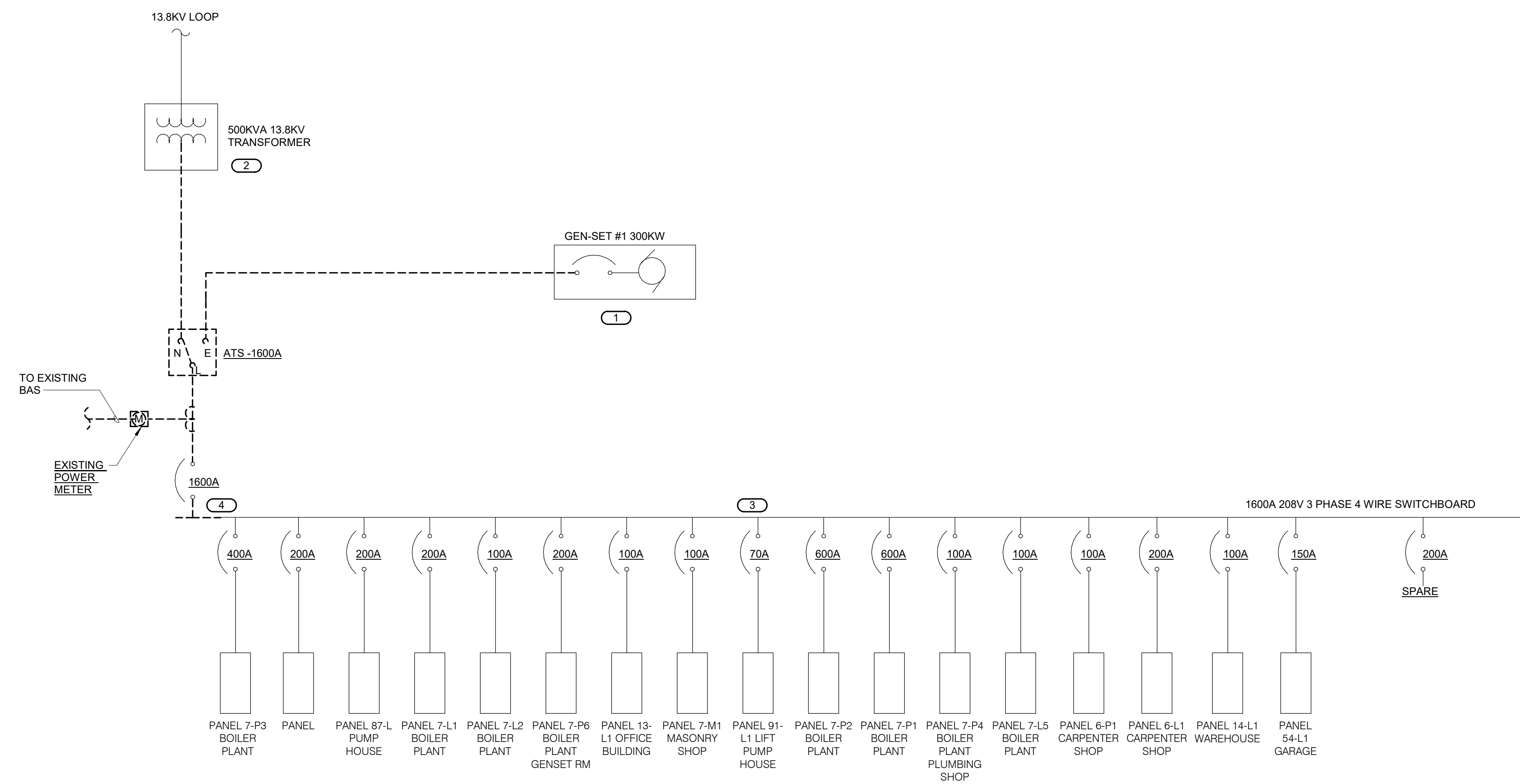
PROJECT TITLE	DATE	PROJECT FILE	DATE
ELECTRICAL - DEMO ONE-LINE DIAGRAM - BASE BID	11/11/20	REPAIR / UPGRADE BOILER HOUSE SYSTEMS	11/11/20
PROJECT NO.	656-19-310	DRAWING NO.	E400
BUILDING NO.	7	DESIGNED BY	GJL
LOCATION	VA MEDICAL CENTER ST. CLOUD, MN 56303	DRAWN BY	TKH

**U.S. Department of Veterans Affairs**  
 Veterans Health Administration  
 St. Cloud VA Health Care System



**SHEET NOTES:**  
 A. CONTRACTOR SHALL MAINTAIN POWER DURING CONSTRUCTION. ALL POWER OUTAGES SHALL BE COORDINATED WITH OWNER AND AVE TEAM.

**KEYNOTES: ( # )**  
 1. DEDUCT ALTERNATE #1 - PROVIDE DEDUCT ALTERNATE TO RE-USE EXISTING GENERATOR.  
 2. DEDUCT ALTERNATE #2 - PROVIDE DEDUCT ALTERNATE TO RE-USE EXISTING 500KVA, 13.8KV TRANSFORMER.  
 3. DEDUCT ALTERNATE #4 - PROVIDE DEDUCT ALTERNATE TO RE-USE EXISTING SWITCHBOARD WITH MODIFICATIONS AS SHOWN.  
 4. CONTRACTOR SHALL REMOVE EXISTING 1600A MCB AND REWORK BUS AS REQUIRED FOR NEW FEEDER FROM 7-ATS-EQ AS SHOWN ON SHEET E501. REMOVE NEUTRAL TO GROUND BOND.



**1 BUILDING #7 BOILER HOUSE ONE-LINE DIAGRAM DEMOLITION - DEDUCT ALTERNATES**  
 NO SCALE

6	CONSTRUCTION DOCUMENTS (CD - 100%)	11/11/20
5	CONSTRUCTION DOCUMENTS (CD - 95%)	8/14/20
4	DESIGN DEVELOPMENT (DD 2 - 75%)	5/22/20
3	DESIGN DEVELOPMENT (DD 1 - 50%)	3/20/20
2	SCHEMATIC DESIGN (SD 2 - 35%)	1/10/20
1	CONCEPTUAL DESIGN (SD 1 - 10%)	11/8/19
No	REVISION	DATE

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REFERENCE SCALE IN INCHES

ARCHITECT/ENGINEER OF RECORD

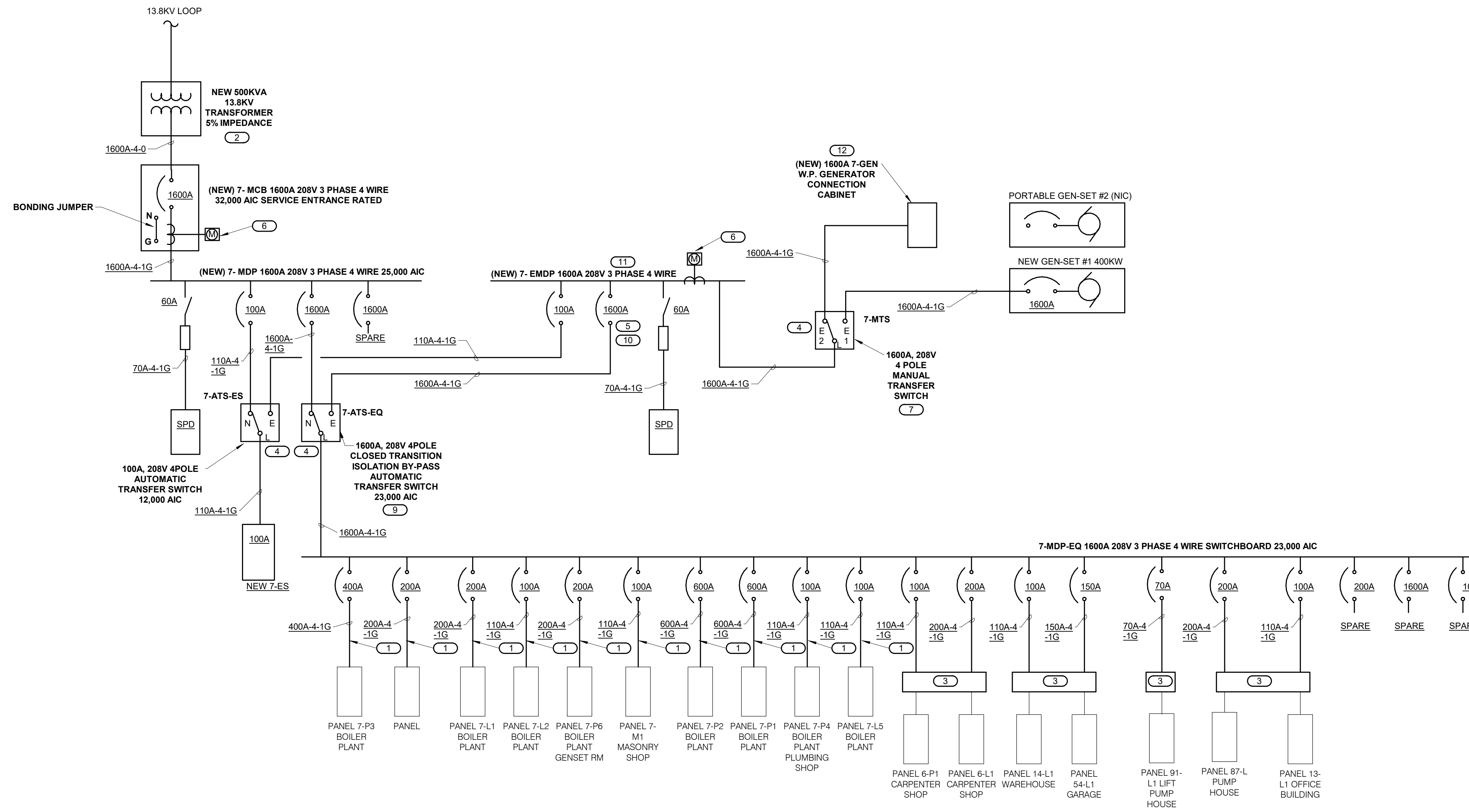
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APPROVED PROJECT COP	DATE	APPROVED SERVICE LINE DIRECTOR	DATE	APPROVED INSPECTION CONTROL NURSE	DATE
APPROVED GEN-PROJECT MANAGER	DATE	APPROVED PATIENT SAFETY	DATE	APPROVED ASSOCIATE HEALTH CARE SYSTEM DIRECTOR	DATE
APPROVED PROJECTS SECTION MANAGER	DATE	APPROVED CHIEF OF POLICE	DATE	APPROVED CHIEF OF STAFF	DATE
APPROVED DIRECTOR TAB	DATE	APPROVED SAFETY MANAGER	DATE	APPROVED HEALTH CARE SYSTEM DIRECTOR	DATE

PROJECT TITLE	DATE	PROJECT TITLE	DATE
ELECTRICAL - DEMO ONE-LINE DIAGRAM - DEDUCT ALT	11/11/20	REPAIR / UPGRADE BOILER HOUSE SYSTEMS	11/11/20
PROJECT NO.	656-19-310	DRAWING NO.	E401
BUILDING NO.	7	DESIGNED BY	GJL
LOCATION	VA MEDICAL CENTER ST. CLOUD, MN 56303	DRAWN BY	TKH

**U.S. Department of Veterans Affairs**  
 Veterans Health Administration  
 St. Cloud VA Health Care System





**1 BUILDING #7 BOILER HOUSE ONE-LINE DIAGRAM NEW - BASE BID**  
NO SCALE

- GENERAL NOTES:**
- ALL CONDUCTORS SHALL BE COPPER.
- KEYNOTES:** (#)
- PROVIDE NEW CONDUIT AND WIRE TO EXISTING PANELBOARDS.
  - AS PART OF DEDUCT ALTERNATE #2, EXISTING TRANSFORMER WILL REMAIN. CONTRACTOR SHALL PROVIDE 1600A 208 VOLT, 3 PHASE 4 WIRE CONNECTION CABINET. SEE DETAIL 8E300 FOR ADDITIONAL INFORMATION. CONNECTION CABINET WILL ALLOW EXISTING SWITCHBOARD AND NEW SWITCHBOARD 7-MDP TO BE ENERGIZED AT THE SAME TIME FOR TRANSFERRING OF LOADS.
  - INTERCEPT EXISTING FEEDER AND INSTALL NEW JUNCTION BOX AT LOCATION SHOWN ON SHEET EPI01.
  - PROVIDE GENERATOR START CIRCUIT AND WIRING IN SEPARATE CONDUIT FOR EACH ATS.
  - PROVIDE SHUNT TRIP CIRCUIT BREAKER FOR CONNECTION TO LOCK-OUT RELAY IN 7-ATS-EQ.
  - NEW SQUARE D ION8000 POWER MONITORING EQUIPMENT. PROVIDE DATA CONNECTION AND ALL CABLING REQUIRED, TO CAMPUS MONITORING SYSTEM.
  - PROVIDE START CONTACTS ON BOTH SIDES OF 7-MTS.
  - NOT USED.
  - ATS SHALL HAVE LOCK-OUT RELAY AND 24VDC INDICATOR LIGHT. PROVIDE CONNECTION FROM LOCK-OUT RELAY TO SHUNT TRIP CIRCUIT BREAKER IN 7-EMDP. PROVIDE ALL CIRCUITING AND ACCESSORIES AS REQUIRED. (REFER TO SPECIFICATIONS.) PROVIDE CONNECTION TO BAS (JOHNSON CONTROLS) NOTIFICATION WHEN LOCK-OUT RELAY IS TRIPPED.
  - PROVIDE ZONE SELECT INTERLOCKING BETWEEN GENERATOR MCB AND 1600A CIRCUIT BREAKER IN 7-EMDP SUCH THAT CIRCUIT BREAKER IN 7-EMDP TRIPS BEFORE GENERATOR MCB. PROVIDE ALL CIRCUITING, CONTROLLERS AND ACCESSORIES AS REQUIRED.
  - PROVIDE ENCLOSURE SEPARATION PER NEC 700.10.
  - PROVIDE START CIRCUIT CONTACTS FOR EACH ATS.

**CONDUIT AND WIRE SCHEDULE (60C RATING)**

FEEDER TYPE	COPPER CONDUCTORS		CONDUIT SIZE			
	Ø & N	GND	20-N-GND	30-GND	30-N-GND	30-2N-2GND
20	#12	#12	16 (1/2")	16 (1/2")	16 (1/2")	21 (3/4")
30	#10	#10	16 (1/2")	16 (1/2")	21 (3/4")	21 (3/4")
40	#8	#10	21 (3/4")	21 (3/4")	27 (1")	27 (1")
55	#6	#10	27 (1")	27 (1")	27 (1")	27 (1")
70	#4	#8	35 (1 1/4")	35 (1 1/4")	35 (1 1/4")	35 (1 1/4")
85	#3	#8	35 (1 1/4")	35 (1 1/4")	35 (1 1/4")	41 (1 1/2")
95	#2	#8	35 (1 1/4")	35 (1 1/4")	41 (1 1/2")	41 (1 1/2")
110	#1	#6	41 (1 1/2")	41 (1 1/2")	41 (1 1/2")	53 (2")
150	#1/0	#6	41 (1 1/2")	41 (1 1/2")	53 (2")	53 (2")
175	#2/0	#6	53 (2")	53 (2")	53 (2")	63 (2 1/2")
200	#3/0	#6	53 (2")	53 (2")	53 (2")	63 (2 1/2")
230	#4/0	#4	53 (2")	53 (2")	63 (2 1/2")	63 (2 1/2")
255	250 kCM	#4	63 (2 1/2")	63 (2 1/2")	63 (2 1/2")	78 (3")
285	300 kCM	#4	63 (2 1/2")	63 (2 1/2")	78 (3")	78 (3")
310	350 kCM	#3	78 (3")	78 (3")	78 (3")	91 (3 1/2")
335	400 kCM	#3	78 (3")	78 (3")	78 (3")	91 (3 1/2")
380	500 kCM	#3	78 (3")	78 (3")	91 (3 1/2")	103 (4")
510	(2) 250 kCM	(2) #1	(2) 63 (2 1/2")	(2) 63 (2 1/2")	(2) 78 (3")	(2) 78 (3")
570	(2) 300 kCM	(2) #1	(2) 63 (2 1/2")	(2) 63 (2 1/2")	(2) 78 (3")	(2) 91 (3 1/2")
620	(2) 350 kCM	(2) #1	(2) 78 (3")	(2) 78 (3")	(2) 78 (3")	(2) 91 (3 1/2")
760	(2) 500 kCM	(2) #1/0	(2) 78 (3")	(2) 78 (3")	(2) 91 (3 1/2")	(2) 103 (4")
1005	(3) 400 kCM	(3) #2/0	(3) 78 (3")	(3) 78 (3")	(3) 78 (3")	(3) 91 (3 1/2")
1240	(4) 350 kCM	(4) #3/0	(4) 78 (3")	(4) 78 (3")	(4) 78 (3")	(4) 91 (3 1/2")
1260	(3) 600 kCM	(3) #3/0	(3) 91 (3 1/2")	(3) 91 (3 1/2")	(3) 103 (4")	(3) 129 (5")
1675	(5) 400 kCM	(5) #4/0	(5) 78 (3")	(5) 78 (3")	(5) 91 (3 1/2")	(5) 103 (4")
1680	(4) 600 kCM	(4) #4/0	(4) 91 (3 1/2")	(4) 91 (3 1/2")	(4) 103 (4")	(4) 129 (5")
2010	(6) 400 kCM	(6) 250 kCM	(6) 78 (3")	(6) 78 (3")	(6) 91 (3 1/2")	(6) 103 (4")
2100	(5) 600 kCM	(5) 250 kCM	(5) 91 (3 1/2")	(5) 91 (3 1/2")	(5) 103 (4")	(5) 129 (5")
2520	(6) 600 kCM	(6) 350 kCM	(6) 91 (3 1/2")	(6) 91 (3 1/2")	(6) 103 (4")	(6) 129 (5")
2660	(7) 500 kCM	(7) 350 kCM	(7) 91 (3 1/2")	(7) 91 (3 1/2")	(7) 91 (3 1/2")	(7) 129 (5")
3040	(8) 500 kCM	(8) 400 kCM	(8) 91 (3 1/2")	(8) 91 (3 1/2")	(8) 91 (3 1/2")	(8) 129 (5")
4275	(8) 750 kCM	(8) 500 kCM	(8) 103 (4")	(8) 103 (4")	(8) 129 (5")	(8) 129 (5")

EQ EQUIPMENT FEEDER - REFER TO ELECTRICAL EQUIPMENT SCHEDULE

200 - 4 - 1G FEEDER DESIGNATION

GROUND CONDUCTORS:  
 (Ø) - NO GROUND  
 (1G) - EQUIPMENT OR ISOLATED GND  
 (2G) - EQUIPMENT GND AND ISOLATED GND

SYSTEM DESCRIPTION:  
 (3) - 1Ø 5W OR 3Ø 3W  
 (4) - 3Ø 4W  
 (5) - 3Ø 5W (2 NEUTRALS)  
 CONDUCTOR AMPACITY:  
 (SEE FEEDER SCHEDULE)

**GENERAL NOTES:**

- THE ABOVE FEEDER SCHEDULE IS A SCHEDULE OF TYPICAL FEEDERS AND SOME SIZES MAY NOT BE UTILIZED.
- ALL CONDUCTOR AMPACITIES ARE BASED ON TABLE 310-15(b)(16) OF THE NEC FOR COPPER CONDUCTOR TYPE THW/THHN.
- FEEDER SIZES SHOWN ON THE RISER DIAGRAM INDICATE FEEDER AMPACITIES AND DO NOT NECESSARILY CORRESPOND TO CIRCUIT BREAKER AMPACITIES. CERTAIN FEEDERS MAY BE SIZED FOR THE DERATING FACTORS REQUIRED BY CODE AND/OR ARE OVERSIZED FOR VOLTAGE DROP.
- WHERE MULTIPLE CONDUITS AND CONDUCTORS ARE INDICATED FOR A SINGLE FEEDER, EACH CONDUIT SHALL CONTAIN 1 PARALLEL PHASE, NEUTRAL, AND GROUND CONDUCTORS INDICATED.
- CONDUIT ABOVE GRADE INDOORS SHALL BE EMT. CONDUIT ABOVE GRADE OUTDOORS SHALL BE GALVANIZED IMC OR RMC. CONDUIT BELOW GRADE SHALL BE PVC SCHEDULE 80 WITH GALVANIZED RMC ELBOWS. CONDUIT SIZE INDICATED IS MINIMUM SIZE REGARDLESS OF CONDUIT TYPE.
- CONDUITS SIZED LARGER THAN INDICATED SHALL BE PERMITTED FOR RUNS WITH UP TO (4) 90° ELBOWS, OR FOR PULLING LONGER RUNS.

6	CONSTRUCTION DOCUMENTS (CD - 100%)	11/11/20
5	CONSTRUCTION DOCUMENTS (CD - 95%)	8/14/20
4	DESIGN DEVELOPMENT (DD 2 - 75%)	5/22/20
3	DESIGN DEVELOPMENT (DD 1 - 50%)	3/20/20
2	SCHEMATIC DESIGN (SD 2 - 35%)	1/10/20
1	CONCEPTUAL DESIGN (SD 1 - 10%)	11/8/19
No	REVISION	DATE

CONSULTANTS  
**IMEG**  
 3001 BROADWAY STREET NE, SUITE 601 MINNEAPOLIS, MN 55413  
 PH: 612.540.5000  
 www.imegcorp.com

REFERENCE SCALE IN INCHES  
 1" = 10'

ARCHITECT/ENGINEER OF RECORD  
**Bancroft Architects + Engineers**  
 700 Nicholas Blvd, Suite 300, Elk Grove Village, IL 60007  
 T: 847.932.9362 F: 847.932.9403  
 www.bancroft-ae.com  
 BAE PROJECT NO. 18-118

APPROVED PROJECT GIP	DATE	APPROVED SERVICE LINE DIRECTOR	DATE	APPROVED INSPECTION CONTROL NUMBER	DATE
APPROVED ASSOCIATE HEALTHCARE SYSTEM DIRECTOR	DATE	APPROVED PATIENT SAFETY	DATE	APPROVED CHIEF OF POLICE	DATE
APPROVED DIRECTOR	DATE	APPROVED SAFETY MANAGER	DATE		

PROJECT TITLE: **ELECTRICAL - ONE-LINE DIAGRAM NEW - BASE BID**

PROJECT NO: **666-19-310**

DATE: **11/11/20**

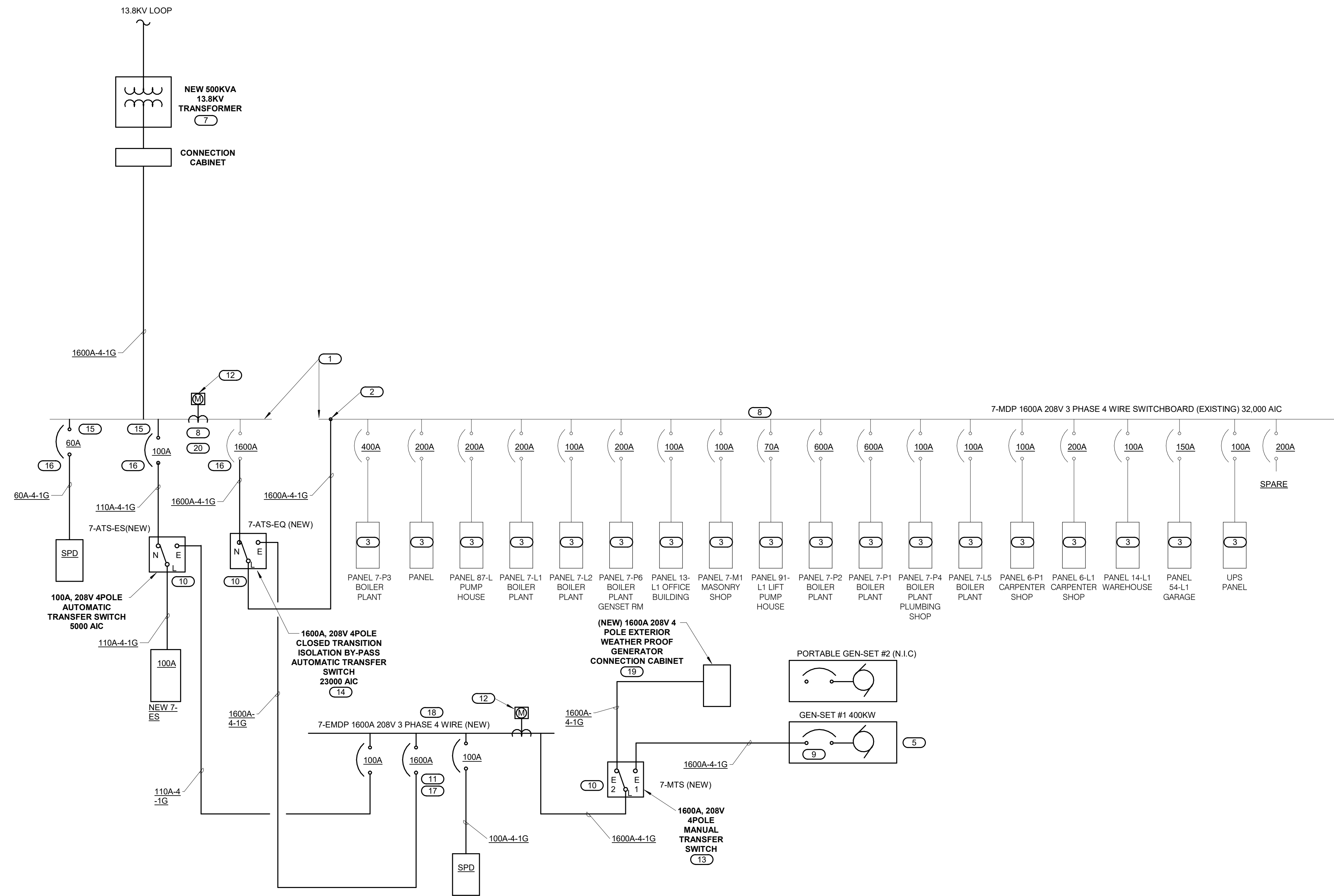
DESIGNER: **GJL** DRAWN BY: **TKH** CHECKED BY: **E500**

LOCATION: **VA MEDICAL CENTER ST. CLOUD, MN 56303**

**VA** U.S. Department of Veterans Health Administration  
 Veterans Health Administration  
 St. Cloud VA Health Care System

**GENERAL NOTES:**  
 A. ALL CONDUCTORS SHALL BE COPPER.  
 B. REFER TO SHEET E500 FOR CONDUIT AND FEEDER SCHEDULE.

- KEYNOTES: #**
- INTERCEPT BUS AS SHOWN. MAINTAIN BONDING JUMPER AT MAIN BREAKER SECTION.
  - TAP BUS WITH NEW CONDUCTORS.
  - EXISTING PANELS/CABINETS AND ASSOCIATED FEEDERS TO REMAIN.
  - NOT USED.
  - PROVIDE DEDUCT ALTERNATE #1 FOR EXISTING DIESEL GENERATOR TO REMAIN.
  - NOT USED.
  - DEDUCT ALTERNATE #2: PROVIDE DEDUCT ALTERNATE TO RE-USE EXISTING TRANSFORMER.
  - DEDUCT ALTERNATE #4: PROVIDE DEDUCT ALTERNATE TO RE-USE EXISTING SWITCHBOARD WITH MODIFICATIONS AS SHOWN.
  - PROVIDE CONNECTION TO EXISTING GENERATOR CIRCUIT BREAKER.
  - PROVIDE GENERATOR START CIRCUIT WIRING.
  - PROVIDE SHUNT TRIP CIRCUIT BREAKER. IN SEPARATE CONDUIT FOR EACH ATS.
  - NEW SQUARE D ION8000 POWER MONITORING EQUIPMENT. PROVIDE DATA CONNECTION AND ALL CABLING REQUIRED. FOR CONNECTION TO CAMPUS MONITORING SYSTEM.
  - PROVIDE START CONTACTS ON BOTH SIDES OF 7-ATS.
  - ATS SHALL HAVE LOCK-OUT RELAY AND 24VDC INDICATOR LIGHT. PROVIDE CONNECTION FROM LOCK-OUT RELAY TO SHUNT TRIP CIRCUIT BREAKER. PROVIDE ALL CIRCUITING AND ACCESSORIES AS REQUIRED. (REFER TO SPECIFICATIONS) PROVIDE CONNECTION TO BAS (JOHNSON CONTROLS) NOTIFICATION WHEN LOCK-OUT RELAY IS TRIPPED.
  - MODIFY BUS AS REQUIRED FOR FEEDING NEW 60A AND 100A SWITCHES.
  - LABEL MAINS PER NEC.
  - PROVIDE ZONE SELECT INTERLOCKING BETWEEN GENERATOR MCB AND 1600A CIRCUIT BREAKER IN 7-EMDP SUCH THAT CIRCUIT BREAKER IN 7-EMDP TRIPS BEFORE GENERATOR MCB. PROVIDE MODIFICATIONS TO EXISTING GENERATOR CIRCUIT BREAKER (NEW TRIP UNIT, CONNECTOR, ETC.) AND ALL CIRCUITING, CONTROLLERS AND ACCESSORIES AS REQUIRED.
  - PROVIDE ENCLOSURE SEPARATION PER NEC 700.10.
  - PROVIDE START CIRCUIT CONTACTS FOR EACH ATS.
  - PROVIDE BARRIER BETWEEN SWITCHES.



**1 BUILDING #7 BOILER HOUSE ONE-LINE DIAGRAM NEW - DEDUCT ALTERNATE #4**  
 12" = 1'-0"

No.	REVISION	DATE
6	CONSTRUCTION DOCUMENTS (CD - 100%)	11/11/20
5	CONSTRUCTION DOCUMENTS (CD - 95%)	8/14/20
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1	CONCEPTUAL DESIGN (SD 1 - 10%)	11/8/19

CONSULTANTS	
3001 BROADWAY STREET NE, SUITE 601 MINNEAPOLIS, MN 55413	PH: 612.540.5000 www.imegcorp.com

ARCHITECT/ENGINEER OF RECORD

700 Nicholas Blvd, Suite 300  
 Elk Grove Village, IL 60007  
 T: 847.952.9362 F: 847.952.9403  
 www.bancroft-ae.com  
 BAE PROJECT NO. 18-118

REFERENCE SCALE IN INCHES  
 1" = 10'

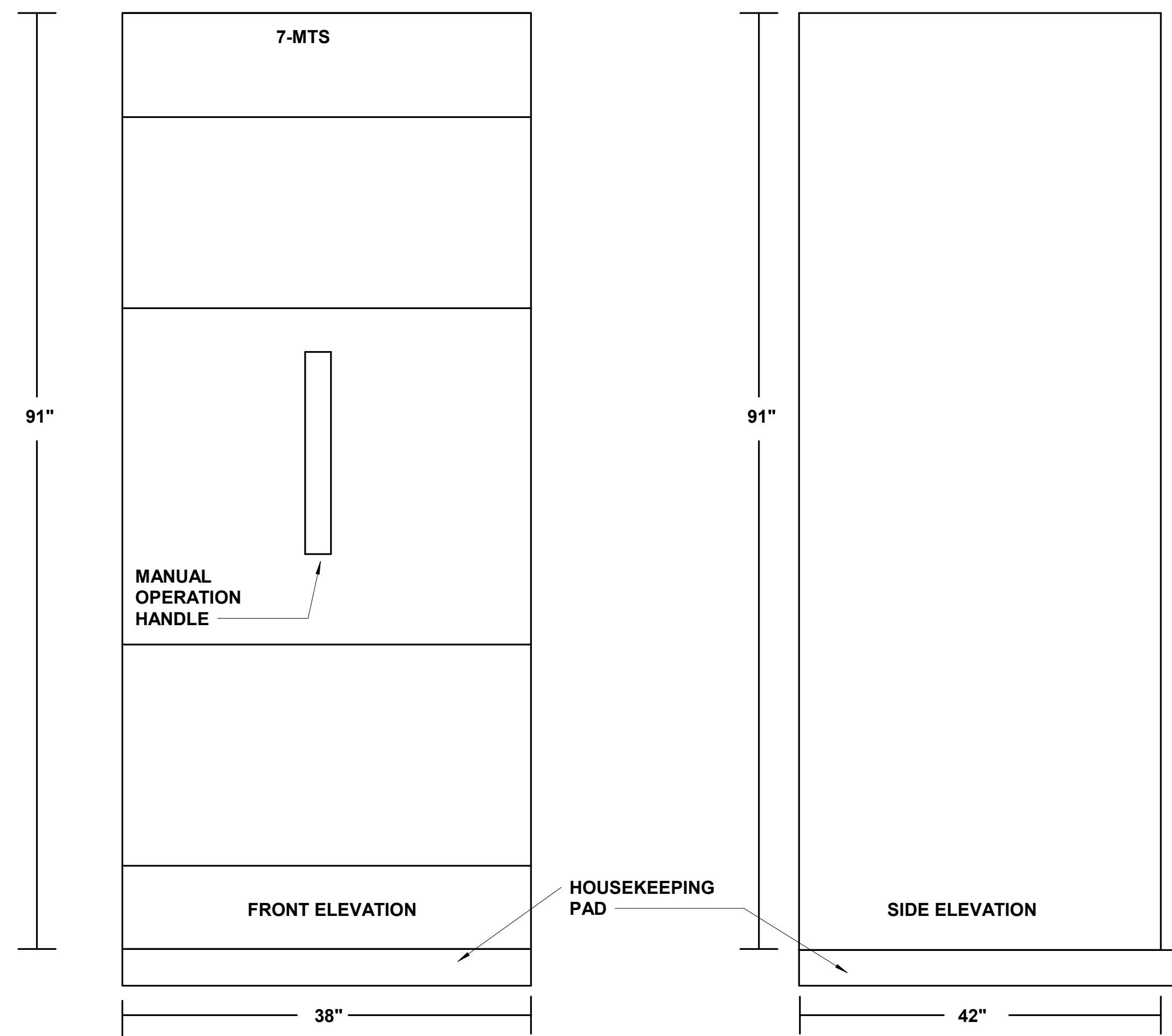
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APPROVED GEN-PROJECT MANAGER	DATE	APPROVED PATIENT SAFETY	DATE	APPROVED CHIEF OF POLICE	DATE
APPROVED PROJECTS SECTION MANAGER	DATE	APPROVED CHIEF OF POLICE	DATE	APPROVED SAFETY MANAGER	DATE
APPROVED DIRECTOR TAB	DATE	APPROVED SAFETY MANAGER	DATE		

PROJECT TITLE	DATE
ELECTRICAL - ONE-LINE DIAGRAM NEW - DEDUCT ALT	11/11/20
PROJECT NO.	656-19-310
DRAWING NO.	E501
BUILDING NO.	7
DESIGNED BY	GJL
DRAWN BY	TKH
LOCATION	VA MEDICAL CENTER ST. CLOUD, MN 56303

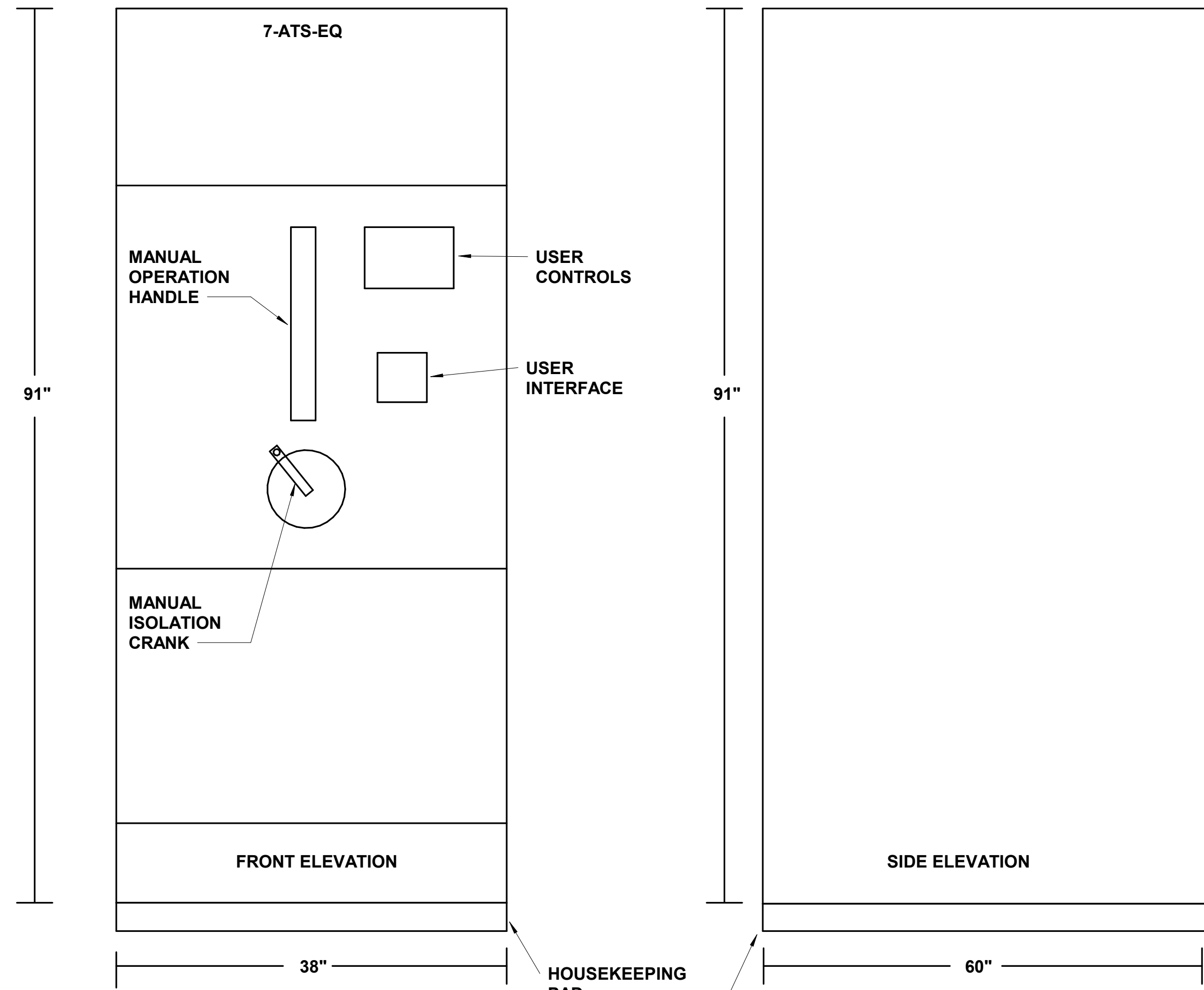
APPROVED CHIEF OF STAFF	DATE	APPROVED HEALTH CARE SYSTEM DIRECTOR	DATE
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U.S. Department of Veterans Affairs  
 Veterans Health Administration  
 St. Cloud VA Health Care System





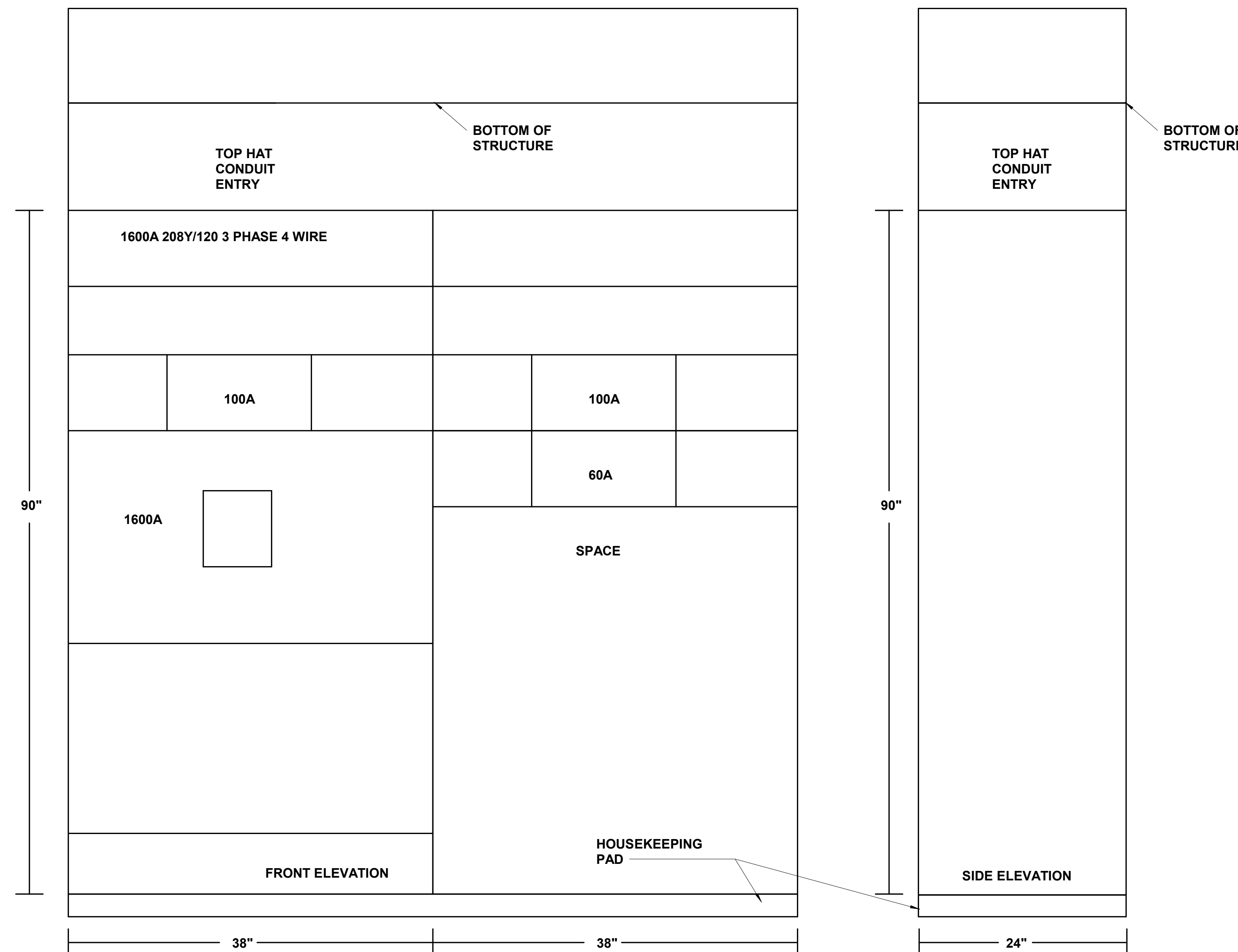
**1 ELECTRICAL 7-MTS ELEVATION**  
NO SCALE



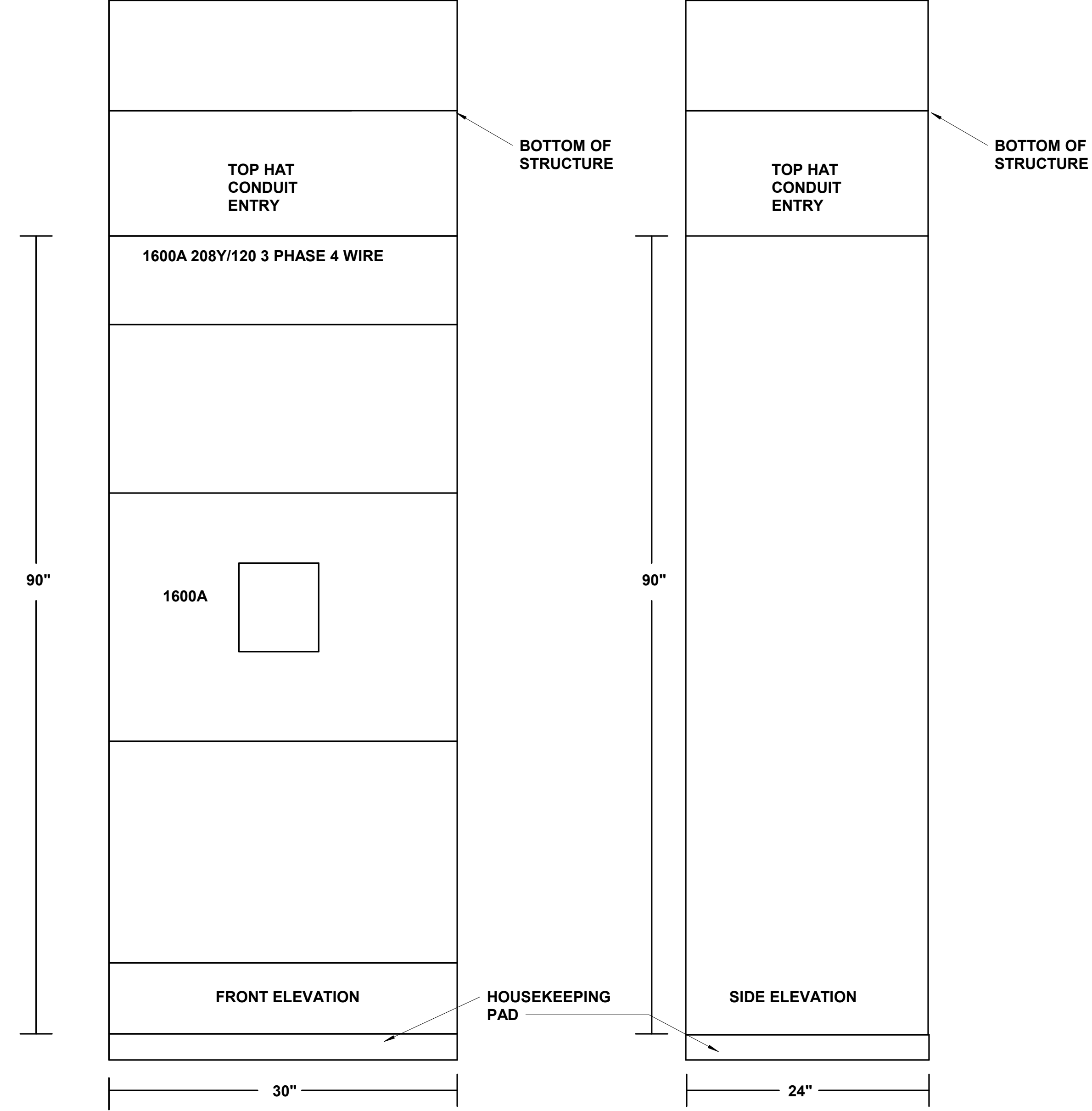
**4 ELECTRICAL 7-ATS-EQ**  
NO SCALE

**SHEET NOTES:**  
A. EQUIPMENT SHALL NOT EXCEED DIMENSIONS SHOWN.

**KEYNOTES:** ( # )  
1. PROVIDE SEPARATE ENCLOSURE SECTIONS PER NEC 700.10.



**2 ELECTRICAL 7-EMDP ELEVATION**  
NO SCALE



**3 ELECTRICAL 7-MCB ELEVATION**  
NO SCALE

No.	REVISION	DATE
6	CONSTRUCTION DOCUMENTS (CD - 100%)	11/11/20
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PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS: IMEG
<b>IMEG</b>
3001 BROADWAY STREET NE, SUITE 601 MINNEAPOLIS, MN 55413
PH: 612.540.5000 www.imegcorp.com

CONSULTANTS
<b>IMEG</b>
3001 BROADWAY STREET NE, SUITE 601 MINNEAPOLIS, MN 55413
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ARCHITECT/ENGINEER OF RECORD
<i>Bancroft</i>
BANCROFT ARCHITECTS + ENGINEERS
700 Nicholas Blvd, Suite 300 BK Grove Village, IL 60007 T: 847.952.9362 F: 847.952.9403 www.bancroft-ae.com BAE PROJECT NO. 19-119

APPROVED PROJECT GIP	DATE	APPROVED SERVICE LINE DIRECTOR	DATE	APPROVED INSPECTION CONTROL NUMBER	DATE
APPROVED GEM PROJECT MANAGER	DATE	APPROVED PATIENT SAFETY	DATE	APPROVED ASSOCIATE HEALTHCARE SYSTEM DIRECTOR	DATE
APPROVED PROJECTS SECTION MANAGER	DATE	APPROVED CHIEF OF POLICE	DATE	APPROVED CHIEF OF STAFF	DATE
APPROVED DIRECTOR TAB	DATE	APPROVED SAFETY MANAGER	DATE	APPROVED HEALTHCARE SYSTEM DIRECTOR	DATE

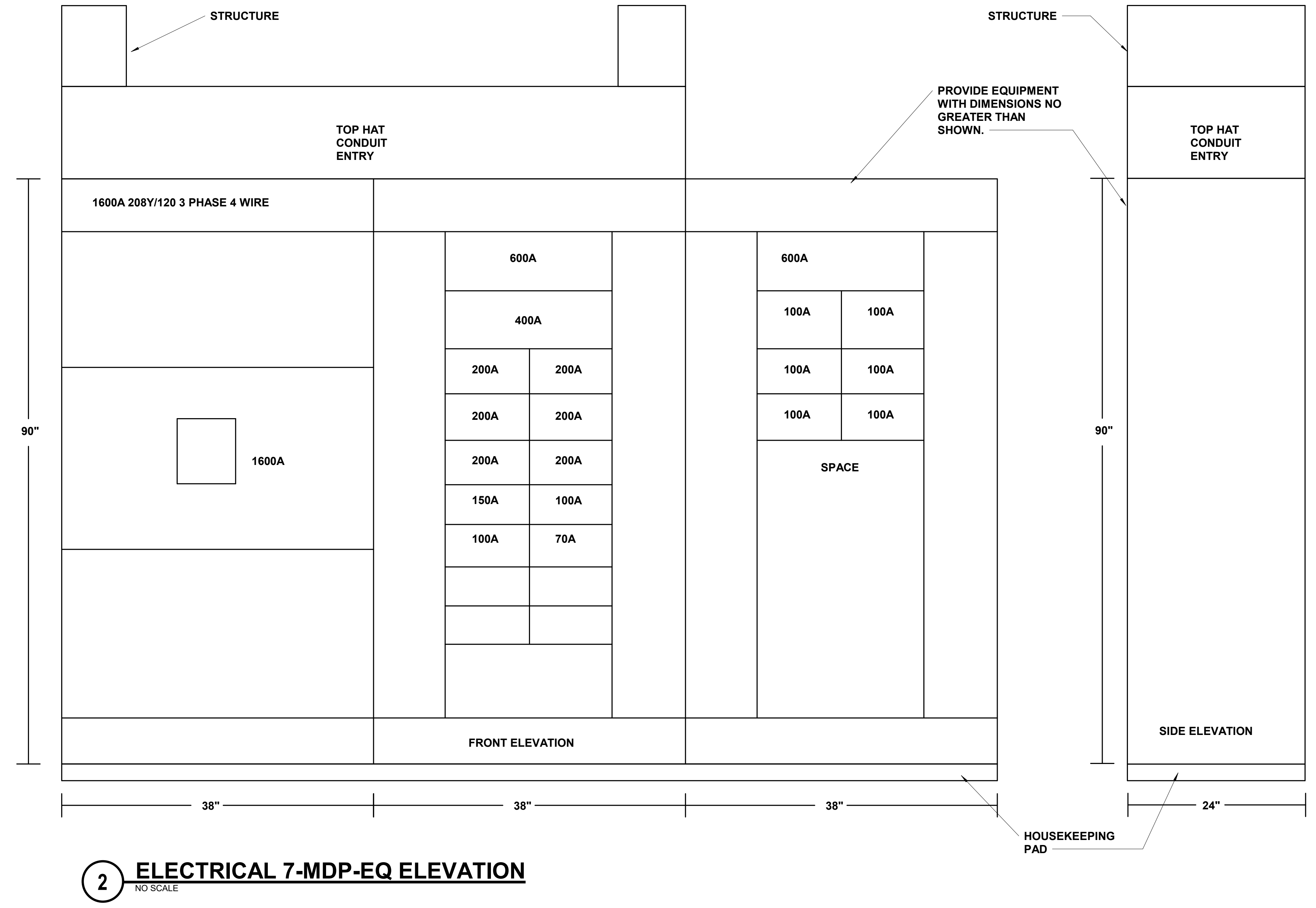
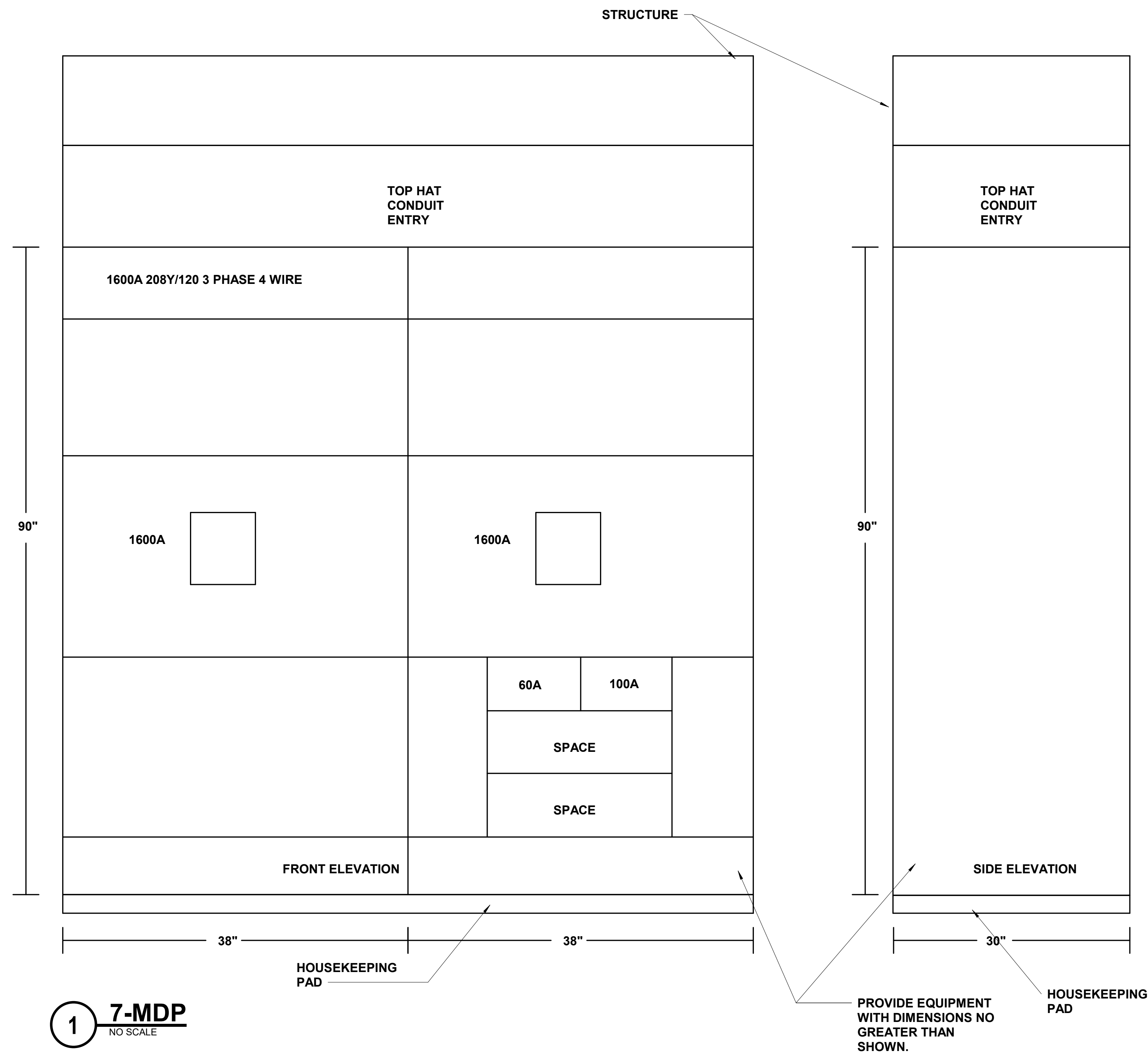
PROJECT TITLE	REPAIR / UPGRADE BOILER HOUSE SYSTEMS	DATE	11/11/20
PROJECT NO.	656-19-310	DRAWING NO.	E601
BUILDING NO.	7	DESIGNED BY	GJL
LOCATION	VA MEDICAL CENTER ST. CLOUD, MN 56303	DWG. OF	

**VA**

U.S. Department of Veterans Affairs  
Veterans Health Administration  
St. Cloud VA Health Care System



**SHEET NOTES:**  
 A. EQUIPMENT SHALL NOT EXCEED DIMENSIONS SHOWN.



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No.	REVISION	DATE

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<b>IMEG</b>
3001 BROADWAY STREET NE, SUITE 601 MINNEAPOLIS, MN 55413
PH: 612.540.5000 www.imegcorp.com

CONSULTANTS
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700 Nicholas Blvd, Suite 300 Ely Grove Village, IL 60007 T: 847.952.9362 F: 847.952.9403 www.bancroft-ae.com BAE PROJECT NO. 19-119

APPROVED PROJECT GIP	DATE	APPROVED SERVICE LINE DIRECTOR	DATE	APPROVED INSPECTION CONTROL NUMBER	DATE
APPROVED GEM PROJECT MANAGER	DATE	APPROVED PATIENT SAFETY	DATE	APPROVED CHIEF OF POLICE	DATE
APPROVED PROJECTS SECTION MANAGER	DATE	APPROVED SAFETY MANAGER	DATE		
APPROVED DIRECTOR FMS	DATE				

PROJECT TITLE	REPAIR / UPGRADE BOILER HOUSE SYSTEMS	DATE	11/11/20
PROJECT NO.	656-19-310	DRAWING NO.	E602
BUILDING NO.	7	DESIGNED BY	GJL
LOCATION	VA MEDICAL CENTER ST. CLOUD, MN 56303	DRAWN BY	TKH

**VA**

U.S. Department of Veterans Affairs  
 Veterans Health Administration  
 St. Cloud VA Health Care System