

SOUTHCENTRAL FOUNDATION
VNPCC NEW GENERATOR
1001 S. GOOSE BAY ROAD, WASILLA, AK 99654

22007.01
PERMIT DOCUMENTS
10.27.2023

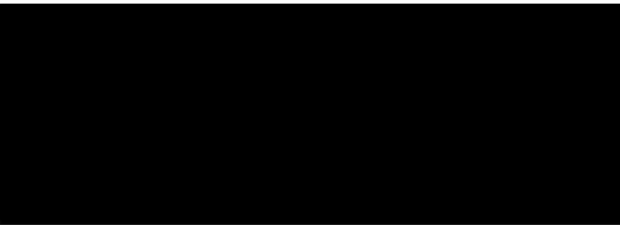


OWNER
SOUTHCENTRAL FOUNDATION
4510 DIPLOMACY DRIVE
ANCHORAGE, ALASKA 99508
Ph: 907.729.3378

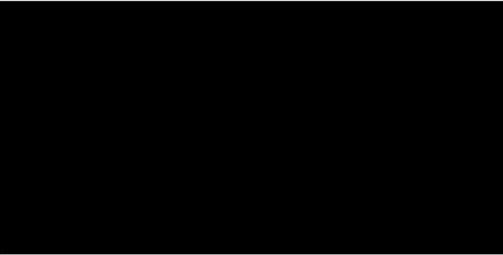


CONTRACTOR
TBD
ADDRESS
CITY, STATE, ZIP CODE
Ph: XXX.XXX.XXXX

ARCHITECT
[Redacted]



CIVIL ENGINEER
[Redacted]



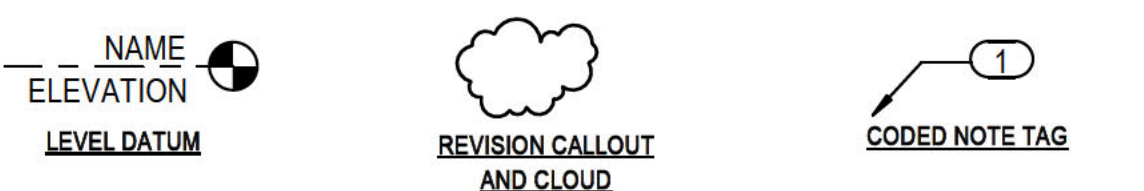
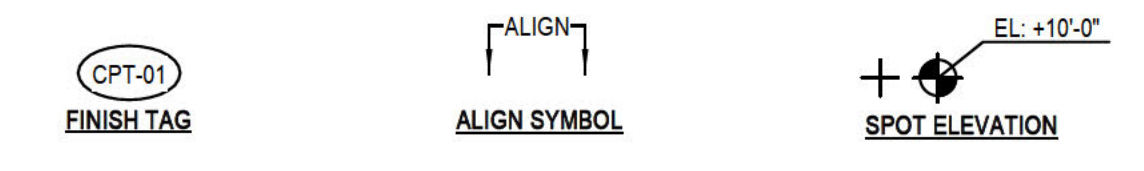
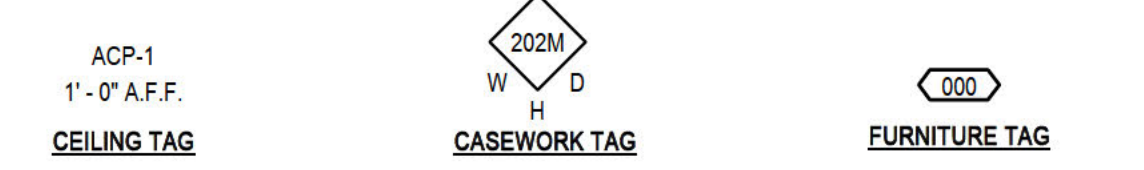
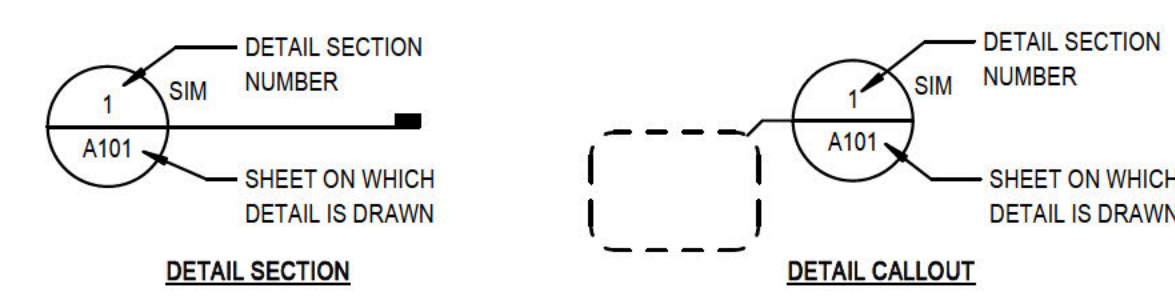
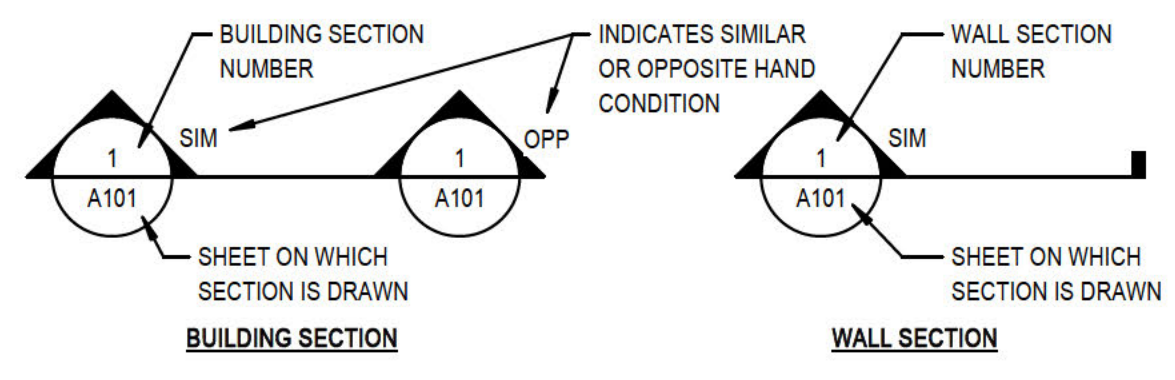
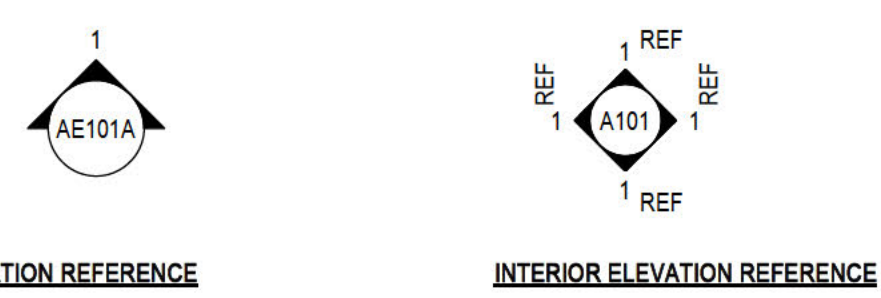
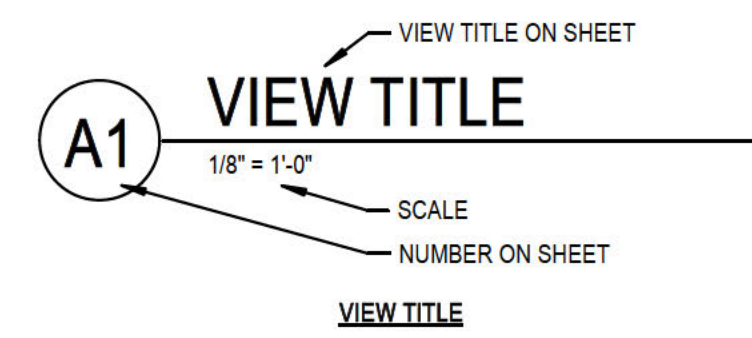
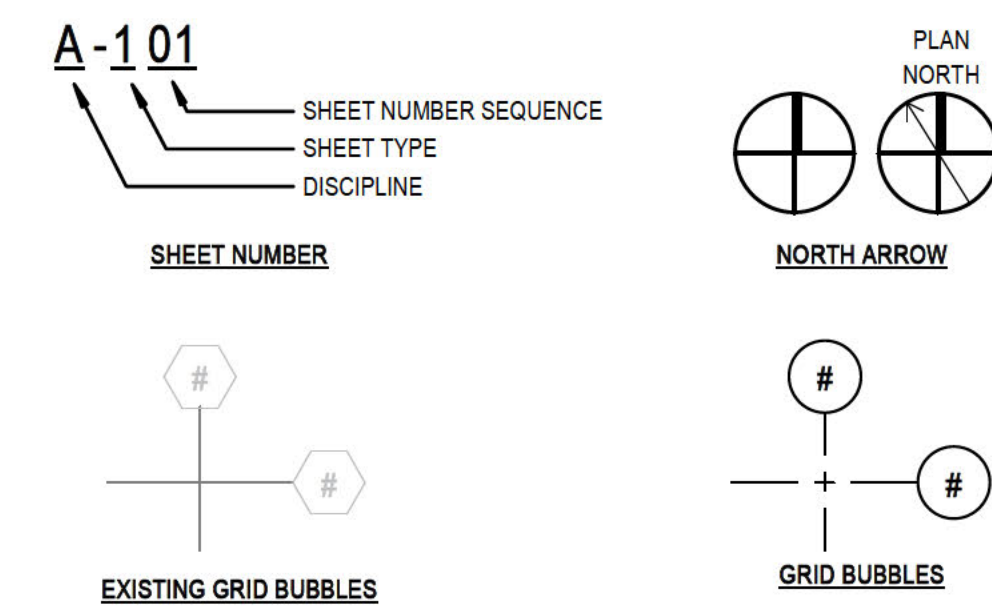
STRUCTURAL ENGINEER
[Redacted]



ELECTRICAL ENGINEER
[Redacted]



SYMBOLGY LEGEND

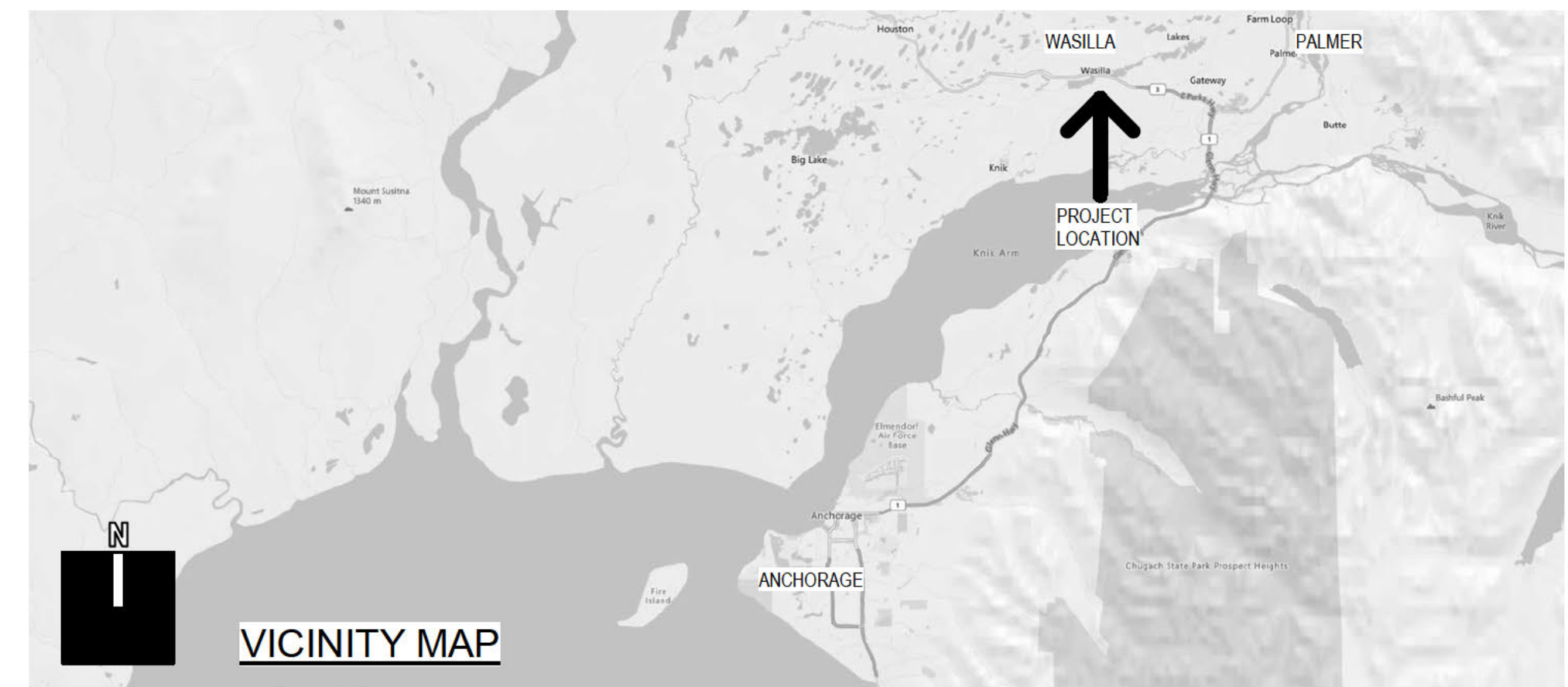


GENERAL NOTES

1. ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE CODES AS ADOPTED AND AMENDED BY CITY OF WASILLA, ALASKA.
2. THESE DRAWINGS ARE SUPPLIED TO THE CONTRACTOR AND OTHERS FOR THEIR USE FOR THIS SPECIFIC PROJECT. ALL COPIES OF THESE DRAWINGS SHALL REMAIN THE PROPERTY OF kpb architects. AND SHALL NOT BE REUSED OR REPRODUCED WITHOUT PERMISSION OF kpb architects.
3. THE ORGANIZATION OF DOCUMENTS ARE NOT INTENDED TO CONTROL THE DIVISION OF WORK. DIVISION OF WORK SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. CONTRACTOR SHALL VERIFY DIMENSIONS, REQUIRED CLEARANCES, AND POWER AND PLUMBING REQUIREMENTS FOR ALL OWNER AND NIC ITEMS. NOTIFY OWNER OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
5. EXISTING CONDITIONS SHOWN ARE BASED ON RECORD DRAWINGS AND / OR ORIGINAL CONSTRUCTION DRAWINGS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.

SHEET INDEX

| | |
|------------|---|
| GENERAL | G000 COVER SHEET |
| | G001 VICINITY MAP/GENERAL NOTES/SHEET INDEX |
| CIVIL | C001 CIVIL NOTES, LEGEND, & ABBREVIATIONS |
| | C101 CIVIL SITE PLAN |
| | C102 ENLARGED SITE PLAN |
| STRUCTURAL | S100h VNPCC GENERATOR ANCHORAGE |
| ELECTRICAL | E001 LEGEND, PROJECT PHASING SCHEDULE, AND CALCULATIONS |
| | E101 ELECTRICAL DEMOLITION SITE PLAN |
| | E102 ENLARGED DEMOLITION PLANS |
| | E103 POWER ONE-LINE DIAGRAM - DEMOLITION |
| | E201 ELECTRICAL REMODEL SITE PLAN |
| | E202 ENLARGED REMODEL PLANS |
| | E203 ELECTRICAL DETAILS |
| | E301 POWER ONE-LINE DIAGRAM - REMODEL |
| | Grand total: 14 |



SOUTHCENTRAL FOUNDATION
VNPCC NEW GENERATOR
 PERMIT DOCUMENTS
 1001 S. GOOSE BAY ROAD, WASILLA, AK 99654

| REVISION SCHEDULE | |
|-------------------|------|
| # | DATE |
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|----------|------------|
| JOB NO. | 22007.01 |
| DATE | 10.27.2023 |
| DRAWN | JS |
| REVIEWED | JS |

SHEET NAME
VICINITY MAP/GENERAL NOTES/SHEET INDEX

SHEET NO.
G001



SURVEY NOTES

SURVEY CONTROL NOTES

HORIZONTAL CONTROL

Coordinates are based on an assumed datum in U.S. Feet. Bearings are based on the Plat of TRACT A, ROCK CENTER PHASE I SUBDIVISION, filed as Plat No. 2006-204 in the Palmer Recording District, Third Judicial District, State of Alaska.

VERTICAL CONTROL

Elevations are based on an assumed datum in U.S. Feet. The Basis of Elevations is temporary benchmark "702", a 2-1/2" Alaska Department of Transportation aluminum cap in a monument case having an assumed value of 500.00 feet.

UTILITY NOTE

The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from information available.

SURVEY CONTROL POINTS

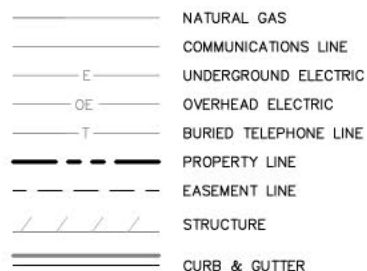
| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|-------|----------|----------|-----------|---------------------|
| 1 | 10283.55 | 19691.25 | 516.61 | ALCAP |
| 2 | 10908.74 | 19954.22 | 507.86 | ALCAP |
| 3 | 10877.28 | 18721.33 | 515.88 | ALCAP |
| 701 | 9994.18 | 20000.01 | 511.30 | ALMON |
| 702 | 9885.59 | 19409.51 | 500.00 | ALMON |
| 703 | 9990.57 | 19409.34 | 505.77 | REBAR W/PLASTIC CAP |
| 704 | 11135.99 | 18905.26 | | REBAR W/PLASTIC CAP |
| 705 | 11139.38 | 18906.50 | | REBAR W/PLASTIC CAP |

LEGEND

PROPOSED



EXISTING



ABBREVIATIONS

| | | | |
|------|--------------------------------|---------|---------------------------|
| ACP | - ASPHALT CONCRETE PAVEMENT | N | - NORTH / NORTHING |
| BOP | - BOTTOM OF PIPE | OH | - OVERHEAD |
| C | - CABLE | OHW | - ORDINARY HIGH WATER |
| CB | - CATCH BASIN | PCPEP | - PERFORATED CPEP |
| C&G | - CURB & GUTTER | PSI | - POUNDS PER SQUARE INCH |
| CIP | - CAST IRON PIPE | R | - RADIUS |
| CMP | - CORRUGATED METAL PIPE | ROW | - RIGHT-OF-WAY |
| CO | - CLEAN OUT | S | - SOUTH |
| CONC | - CONCRETE | SD | - STORM DRAIN |
| CPP | - CORRUGATED PLASTIC PIPE | SDCB | - STORM DRAIN CATCH BASIN |
| CPEP | - CORRUGATED POLYETHYLENE PIPE | SDCO | - STORM DRAIN CLEAN OUT |
| DIA | - DIAMETER | SDMH | - STORM DRAIN MANHOLE |
| DIP | - DUCTILE IRON PIPE | SS | - SANITARY SEWER |
| E | - EAST / EASTING / EXISTING | SSCO | - SANITARY SEWER CLEANOUT |
| ELEV | - ELEVATION | SSMH | - SANITARY SEWER MAHNOLE |
| EP | - EDGE OF PAVEMENT | SW | - SIDEWALK |
| EX | - EXISTING | T | - TELEPHONE |
| FF | - FINISH FLOOR | TA | - TOP OF ASPHALT |
| FL | - FLOW LINE | TB | - TEST BORING |
| GR | - GROUND | TBC | - TOP BACK OF CURB |
| GB | - GRADE BREAK | TRW | - TOP OF RETAINING WALL |
| GV | - GATE VALVE | TSW | - TOP OF SIDEWALK |
| INV | - INVERT | TYP | - TYPICAL |
| LC | - LEVELING COURSE | VB | - VALVE BOX |
| ME | - MATCH EXISTING | VLY GTR | - VALLEY GUTTER |
| MIN | - MINIMUM | W | - WEST |
| NTS | - NOT TO SCALE | ø | - DIAMETER |

GENERAL NOTES

- CAUTION, EXISTING UTILITIES SHOWN ARE NOT COMPREHENSIVE. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION / CONSTRUCTION, AND SHALL CALL FOR UTILITY LOCATES A MINIMUM OF TWO UTILITY WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION.
- ALL BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR COMPACTION PROCEDURE (ASTM D1557) WITH MAXIMUM LIFT THICKNESS OF 12".
- MAINTAIN A MINIMUM OF 36-INCHES OF VERTICAL SEPARATION BETWEEN ANY STORM SEWER (STORM DRAIN OR FOOTING DRAIN) AND WATERLINE (MAINS OR SERVICES) OR SANITARY SEWER (MAINS OR SERVICES). IF 36-INCHES CANNOT BE MAINTAINED, PROVIDE A MINIMUM OF 4-INCH THICK INSULATION.
- CONTRACTOR SHALL VERIFY AND RECORD THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD AND RECORD ANY CHANGES ON THE CONTRACTOR RECORD DRAWINGS.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED PROPERTY, INCLUDING DRAINAGE SWALES, DISTURBED BY CONTRACT ACTIVITIES TO PRE-CONSTRUCTION CONDITION.
- THE CONTRACTOR SHALL RECORD SURVEY NOTES FOR SUBMITTAL WITH RECORD DRAWING PLANS PRIOR TO CONTRACT FINAL PAYMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS AS NECESSARY TO COMPLY WITH FEDERAL, STATE, AND MUNICIPAL LAWS THAT PROHIBIT UNPERMITTED DISCHARGE OF POLLUTANTS, INCLUDING SEDIMENTS, THAT ARE A RESULT OF EROSION AND OTHER CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CONDUCT ALL WORK SO SEDIMENT IS NOT TRANSPORTED ONTO THE ROADWAY OR ADJACENT PROPERTY. AT A MINIMUM, THE CONTRACTOR SHALL SWEEP UP ANY SEDIMENT TRACKED ONTO PAVED SURFACES IN PUBLIC RIGHT-OF-WAY WITHIN 24 HOURS OF THE TRACKING TO MINIMIZE THE WASH-OFF OF SEDIMENT INTO THE STORM DRAINS OR WATERWAYS.
- IF DEWATERING IS REQUIRED, WATER RESULTING FROM THE CONTRACTOR'S DEWATERING EFFORT MAY NOT BE PUMPED OR OTHERWISE DIVERTED INTO EXISTING STORM DRAINS UNLESS THE CONTRACTOR OBTAINS PERMITS INCLUDING, BUT NOT LIMITED TO, THOSE REQUIRED BY THE MUNICIPALITY OF ANCHORAGE STORM WATER PLAN REVIEW OFFICE. IT IS NOT ALLOWABLE UNDER ANY CIRCUMSTANCES FOR THE CONTRACTOR TO DIVERT WATER FROM EXCAVATIONS IN TO ROADWAYS. CONTRACTOR SHALL PROVIDE A DISPOSAL SITE FOR EXCESS WATER AND SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS AND APPROVALS. CONTRACTOR SHALL PROVIDE COPIES OF NECESSARY PERMITS AND APPROVALS TO THE MOA RIGHT OF WAY PERMIT OFFICE.



Know what's below.
Call before you dig.
ALASKA DIGLINE

LEGAL DESCRIPTION

CHUGACH NORTH SUBDIVISION TRACT 2

SOUTHCENTRAL FOUNDATION

VNPC NEW GENERATOR

PERMIT DOCUMENTS

1001 S. KNIK-GOOSE BAY ROAD WASILLA, AK 99654

REVISION SCHEDULE

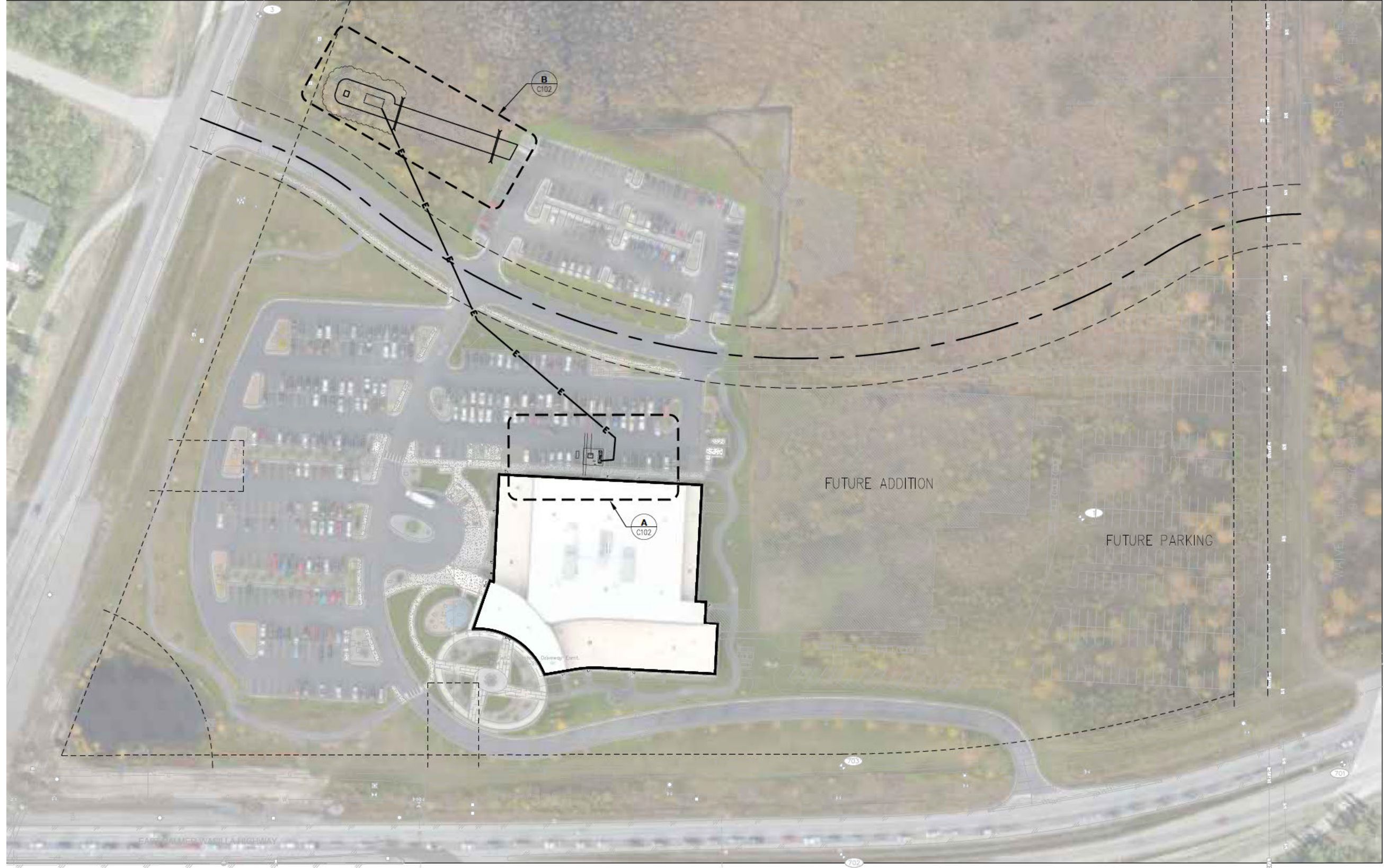
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| JOB NO. | E22.06 |
| DATE | 10.27.2023 |
| DRAWN | LDM |
| REVIEWED | LDM |

SHEET NAME
CIVIL NOTES LEGEND &
ABBREVIATIONS

SHEET NO.
C001

HALF-SCALE AT 11X17



SOUTHCENTRAL FOUNDATION
VNPC NEW GENERATOR
PERMIT DOCUMENTS
1001 S. KNIK-GOOSE BAY ROAD WASILLA, AK 99654

| REVISION SCHEDULE | | |
|-------------------|-------------|------|
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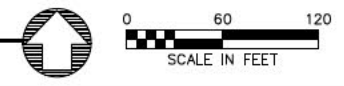
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DATE 10.27.2023
DRAWN LDM
REVIEWED LDM

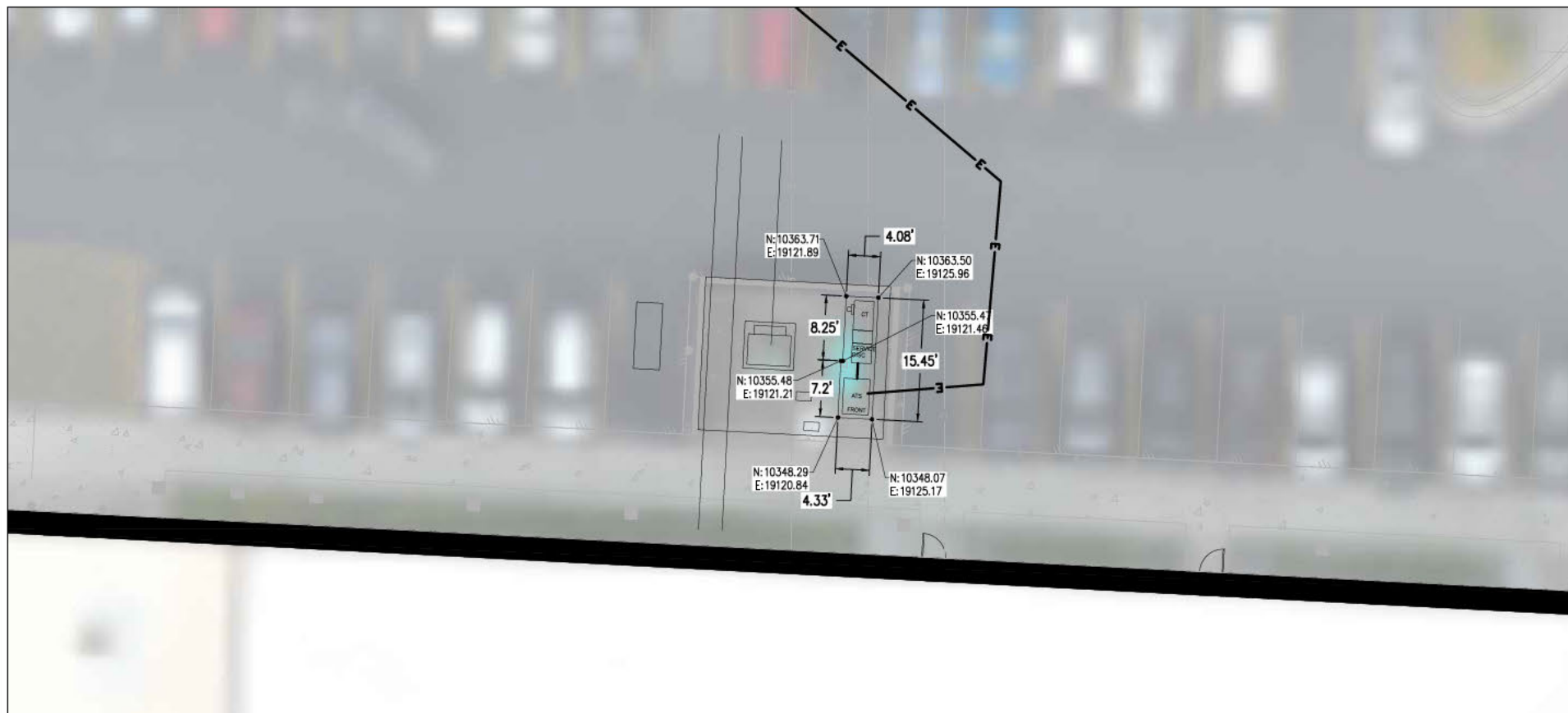
SHEET NAME
CIVIL SITE PLAN

SHEET NO.
C101

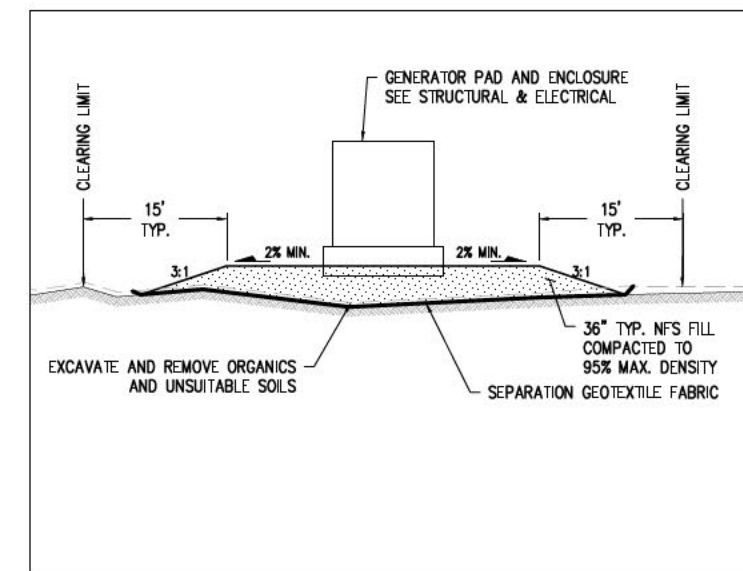
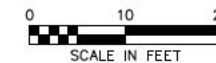
HALF-SCALE AT 11X17

1 CIVIL SITE PLAN
SCALE: 1"=60'





A ENLARGED SITE PLAN
C102 SCALE: 1"=10'



1 GENERATOR PAD SECTION
C102 SCALE: 1"=10'



B ENLARGED SITE PLAN
C102 SCALE: 1"=10'



NOTE: PAD DIMENSIONS SHOWN HEREON HAVE BEEN PROVIDED BY OTHERS. CONTRACTOR SHALL VERIFY DIMENSIONS BASED ON ACTUAL EQUIPMENT SIZES AND STRUCTURAL REQUIREMENTS.

SOUTHCENTRAL FOUNDATION

VNPC NEW GENERATOR

PERMIT DOCUMENTS

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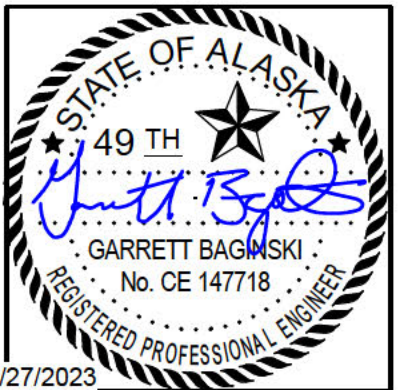
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| JOB NO. | E22.06 |
| DATE | 10.27.2023 |
| DRAWN | LDM |
| REVIEWED | LDM |

SHEET NAME
ENLARGED SITE PLAN

SHEET NO.
C102

HALF-SCALE AT 11X17



10/27/2023

GENERAL STRUCTURAL NOTES

THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS AMONG THE DRAWINGS BEFORE STARTING ANY WORK OR FABRICATION. IN CASE OF DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, REFERENCE STANDARDS, SITE CONDITIONS OR GOVERNING CODE, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN. CONTRACTOR SHALL NOTIFY THE ENGINEER OF DISCREPANCIES AND OBTAIN DIRECTION PRIOR TO PROCEEDING. NOTES ON INDIVIDUAL STRUCTURAL DRAWINGS SHALL TAKE PRIORITY OVER GENERAL STRUCTURAL NOTES. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED AS TYP ON THE PLANS BUT SHALL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS.

ALL CONSTRUCTION SHALL COMPLY WITH THE 2021 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE STATE OF ALASKA.

SAFETY - THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL FEDERAL, STATE AND LOCAL SAFETY STANDARDS. THE CONTRACTOR IS IN CHARGE OF ALL SAFETY MATTERS ON AND AROUND THE JOB SITE.

STRUCTURAL DESIGN DATA

STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE IBC AS AMENDED AND ADOPTED BY THE STATE OF ALASKA. RISK CATEGORY IS IV (EMERGENCY BACKUP) IN ACCORDANCE WITH IBC SECTION 1604.5.

WIND LOADS: BASIC WIND SPEED (3-SECOND GUST, V_{ult})=133 MPH, EXPOSURE B

SEISMIC LOADS: SITE CLASS D, DESIGN CATEGORY D,
 $S_s=1.619$, $S_1=0.849$, $S_{ds}=1.2$, $I_e=1.5$

FOUNDATIONS

FOUNDATIONS ARE DESIGNED FOR A MAXIMUM SOIL BEARING PRESSURE OF 2,500 PSF UNDER SUSTAINED LOADING.

SPECIAL INSPECTION

SPECIAL INSPECTION IS NOT REQUIRED, TYPICALLY. CONCRETE IS MINOR IN NATURE AND NOT HIGHLY STRESSED. POST-INSTALLED ANCHORS STRESSED TO LESS THAN 50% USING OVERSTRENGTH LOADS (UNLESS 'SP' NOTED NEXT TO ANCHORS, THEN PERIODIC SPECIAL INSPECTION IS REQUIRED).

STRUCTURAL CONCRETE

ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 301, STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE, AS MODIFIED BY IBC SECTION 1905 AND LOCAL ADOPTED AMENDMENTS. CONCRETE SHALL BE PROPORTIONED TO ACHIEVE A WORKABLE MIX THAT CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER. CONCRETE PLACED DURING COLD WEATHER SHALL CONFORM TO ACI 306. ALL COLD WEATHER CONCRETE AND CONCRETE EXPOSED TO WEATHER SHALL CONTAIN AIR ENTRAINMENT PER ACI 318-14 TABLE 19.3.3.1.

ALL CAST-IN-PLACE CONCRETE:

1. MINIMUM 28-DAY COMPRESSIVE STRENGTH = 3,000 PSI
2. MAXIMUM AGGREGATE SIZE = 3/4"
3. MAXIMUM WATER-CEMENT RATIO = 0.50
4. MAXIMUM CHLORIDE ION CONTENT = 1.00%
5. TARGET AIR CONTENT = 6% (+/-1%)

APPLICABLE ASTM STANDARDS:

PORTLAND CEMENT = ASTM C150
 AGGREGATE = ASTM C33, NORMAL WEIGHT
 WATER = ASTM C94, SECTION 5.4 OR ASTM C1602
 WATER REDUCING ADMIXTURE = ASTM C494, TYPE A

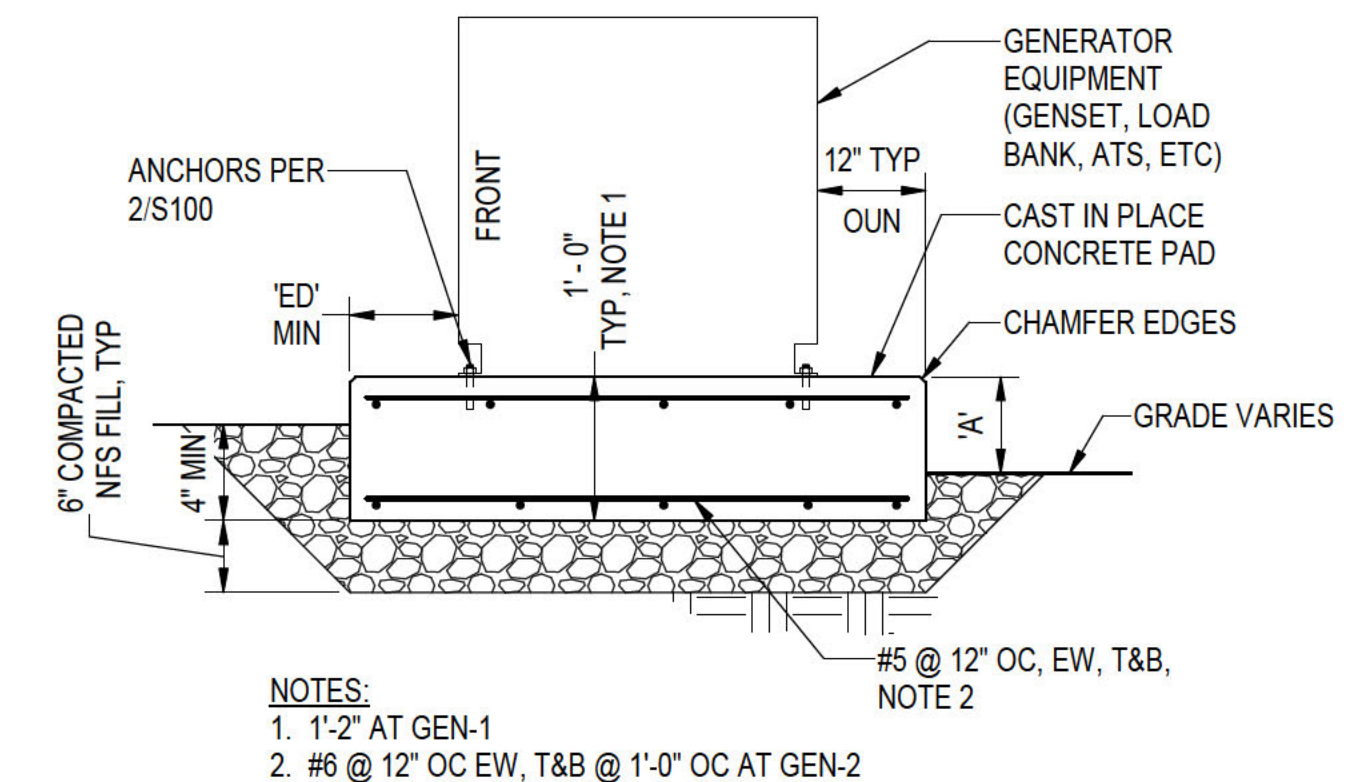
MINIMUM CONCRETE COVER SHALL BE 3-INCHES FOR PROVIDED FOR REINFORCEMENT CAST AGAINST EARTH.

ALL CONCRETE REINFORCING SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 315, ACI 318, CRSI MSP-1 AND ACI SP-66. TYPICAL REINFORCING BARS SHALL BE ASTM A615, GRADE 60. LAP SPLICES SHALL BE CLASS B LAPS PER ACI (63 X BAR DIAMETER). LAP SPLICES MAY ALSO ACCOMPLISHED USING MECHANICAL DEVICES THAT DEVELOP 125% OF THE STRENGTH OF THE REBAR.

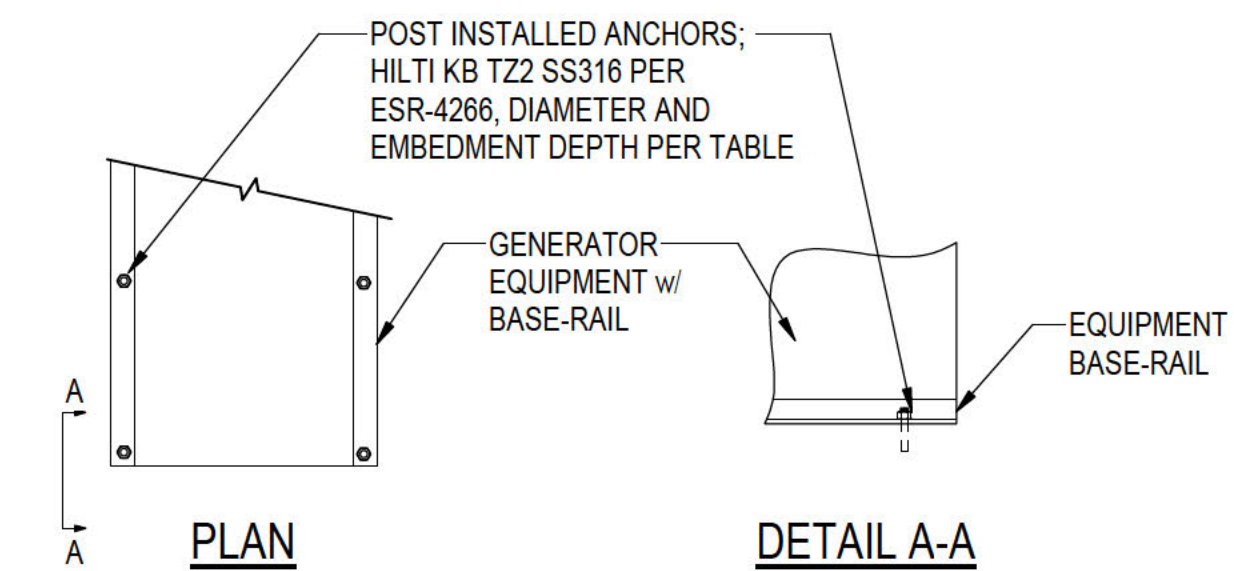
POST-INSTALLED ANCHORS

INSTALLATION SHALL CONFORM TO MANUFACTURER'S INSTRUCTIONS AND REQUIREMENTS OF ICC-ES REPORT. ALL POST-INSTALLED ANCHORS SHALL HAVE A CURRENT ICC-ES REPORT AND BE AUTHORIZED FOR USE IN SEISMIC DESIGN CATEGORY D.

EXPANSION ANCHORS SHALL BE HILTI "KWIK BOLT T22" STAINLESS STEEL 316 (PER ESR-4266).



1 EXTERIOR CONC PAD
 S100 3/4" = 1'-0"



| UNIT ID | DESCRIPTION | MAX WET WEIGHT (LBS) | NUMBER AND SIZE OF ANCHORS | MIN PAD ELEV ABV GRADE; 'A' DIM | FRONT EDGE DISTANCE; 'ED' DIM |
|-----------------|-------------------|----------------------|---------------------------------|---------------------------------|-------------------------------|
| GEN-1 | KOHLER 900 | 17,131 LBS | (8) 3/4" DIA X 4 1/2" EMBED | 4" | 12" |
| GEN-1 ENCLOSURE | WP ENCLOSURE | 57870 LBS | (12) 3/4" DIA X 4 1/2" EMBED | 4" | 6" |
| LB-1 | SIMPLEX LOAD BANK | 2,700 LBS | (4) 3/8" DIA X 2 1/2" EMBED, SP | 4" | 6" |
| ATS-1 | SWITCHBOARDS | 1,900 LBS | (4) 3/8" DIA X 2 1/2" EMBED | 4" | 6" |

2 MOUNTING ANCHORS
 S100 3/4" = 1'-0"

| | | | | | | | | | | | | | |
|------|-------------------------------|------|----------------------------|------|-----------------------------|------|--------------|-------|----------------------------|--------|-------------------|------|---------------------------|
| @ | At | BLKG | Blocking | EA | Each | INT | Interior | OH | Overhead | SIM | Similar | TYP | Typical |
| AB | Anchor Bolts | BM | Beam | EQ | Equal. Earthquake | LAG | Lag Screw | OPNG | Opening | SQ | Square | UON | Unless Otherwise Noted |
| BLDG | Building | BOT | Bottom | EW | Each Way | LOC | Location | PL | Plate | STL | Steel | VERT | Vertical |
| ARCH | Architect | BTWN | Between | EXP | Expansion | LONG | Longitudinal | PLS | Places | T&B | Top and Bottom | W/ | With |
| AR | Anchor Rod | CL | Center-Line | FDN | Foundation | MAX | Maximum | PSF | Pounds-per-square-foot | T&G | Tongue and Groove | W/O | Without |
| ALT | Alternate | CLR | Clear | FF | Finished Floor | MEZZ | Mezzanine | PSI | Pounds-per-square-inch | T.O. | Top of | W | Wide-Flange, Wide |
| AHJ | Authority Having Jurisdiction | COL | Column | GALV | Galvanized | MIN | Minimum | REQ'D | Required | T.O.B. | Top of Beam | W/C | Water / Cement Ratio |
| AFF | Above Finish Floor | CONC | Concrete | GLB | Glue-Laminated Beam | MFR | Manufacturer | RO | Rough Opening | T.O.S. | Top of Steel | W.P. | Work Point |
| ADH | Adhesive | CONT | Continuous, Continue | HORZ | Horizontal | (N) | New | SBN | Shearwall Boundary Nailing | T.O.W. | Top of Wall | WWR | Welded Wire Reinforcement |
| ADDL | Additional | DBN | Diaphragm Boundary Nailing | HSS | Hollow Structural Steel | OC | On-Center | SCH | Schedule | TRANS | Transverse | | |
| | | (E) | Existing | IBC | International Building Code | | | | | | | | |

SOUTH CENTRAL FOUNDATION
 VNPCC NEW GENERATOR
 PERMIT DOCUMENTS
 1001 S. GOOSE BAY ROAD, WASILLA, AK

| REVISION SCHEDULE | | |
|-------------------|-------------|------|
| # | DESCRIPTION | DATE |
| | | |

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|----------|------------|
| JOB NO. | 402023.023 |
| DATE | 10/27/23 |
| DRAWN | GB |
| REVIEWED | GB |

SHEET NAME
 VNPCC GENERATOR ANCHORAGE

SHEET NO.
S100h

HALF-SCALE AT 11X17



PROJECT PHASING SCHEDULE

THE FOLLOWING PHASING SCHEDULE IS GENERAL IN NATURE AND REPRESENTS ONE POSSIBLE SEQUENCE OF WORK. THE CONTRACTOR SHALL SUBMIT THEIR OWN INSTALLATION AND CUTOVER WORK PLAN FOR REVIEW AND APPROVAL. THE INTENT IS TO MINIMIZE INTERRUPTIONS TO THE VALLEY PRIMARY CARE CENTER (VNPCC) OPERATIONS BY PROVIDING TEMPORARY POWER CONNECTIONS AS NEEDED.

1. AT A MINIMUM, THE WORK PLAN SHALL INCLUDE THE FOLLOWING INFORMATION FOR THE TEMPORARY SYSTEMS TO BE INSTALLED:
 - a. DATE AND TIME OF INITIAL CUTOVER.
 - b. ALTERNATE POWER SUPPLY TO BE USED DURING EQUIPMENT INSTALLATION.
 - c. OPERATING PROCEDURES FOR THE CONTRACTOR AND VNPCC, IN CASE OF A POWER OUTAGE DURING THE INSTALLATION PROCESS.
 - d. DATE AND TIME OF CUTOVER TO NEW EQUIPMENT.
2. NO CUTOVERS WILL BE ALLOWED WITHOUT AN APPROVED WORK PLAN.
3. MAINTAIN EXISTING EQUIPMENT AND SYSTEMS IN SERVICE UNTIL NEW EQUIPMENT AND SYSTEMS ARE INSTALLED AND READY FOR SWITCHOVER.

SHUTDOWNS: THE VNPCC SHALL REMAIN FULLY OPERATIONAL EXCEPT FOR POWER SHUTDOWNS. ALL SHUTDOWNS SHALL BE APPROVED BY VNPCC. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS NOTICE PRIOR TO INITIAL SHUTDOWN FOR SERVICE ENTRANCE EQUIPMENT, AUTOMATIC TRANSFER SWITCH, AND GENERATOR REPLACEMENT, THEN PROVIDE A MINIMUM OF 24 HOURS NOTICE PRIOR TO SHUTDOWN AND RESTORATION OF PERMANENT UTILITY AND STANDBY POWER TO THE NEW SERVICE EQUIPMENT AND AUTOMATIC TRANSFER SWITCH.

MAXIMUM OUTAGE DURATION: ALL OUTAGES FOR INITIAL AND FINAL CUTOVERS SHALL BE LIMITED TO 8 HOURS.

- A. PRE-CONSTRUCTION: FIELD VERIFY ALL EXISTING CONDITIONS, NEW/EXISTING CONDUIT PATHWAYS. PREPARE SUBMITTALS AND SHOP DRAWINGS. PROCURE WALK-IN GENERATOR MODULE, WEATHERPROOF WALK-IN GENERATOR MODULE, SERVICE EQUIPMENT EUSERC CT/METER, SERVICE RATED DISCONNECTING MEANS, AND AUTOMATIC TRANSFER SWITCH. NO OUTAGES ARE ALLOWED UNTIL NEW EQUIPMENT IS ON-SITE AND READY FOR INSTALLATION.
- B. THE FOLLOWING IS A GENERAL SEQUENCE OF WORK:
 1. INSTALL A TEMPORARY MOBILE PACKAGED DIESEL-FIRED GENERATOR (STANDBY) AND ASSOCIATED POWER FEEDER AND CONTROL CIRCUITS TO THE EXISTING ATS-1 AND ATS-2 (LOCATED INSIDE THE FIRST FLOOR ELECTRICAL ROOM) PRIOR TO REMOVAL FEEDERS BETWEEN THE ATS-1 AND EXISTING GENERATOR.
 2. DISCONNECT THE LINE SIDE FEEDER AND CONTROL CIRCUIT BETWEEN THE EXISTING GENERATOR AND ATS-1 AND ATS-2.
 3. PROVIDE TEMPORARY STANDBY POWER CONNECTION TO LOADS SERVED BY TWO EXISTING ATS-1 AND ATS-2.
 4. REMOVE 80KW CUMMINS GENERATOR, ASSOCIATED POWER FEEDERS AND CONTROL CIRCUITS, AND CONCRETE HOUSEKEEPING PAD.

5. INSTALL NEW WEATHERPROOF WALK-IN GENERATOR MODULE, ASSOCIATED POWER FEEDERS AND CONTROL/SIGNAL CIRCUITS UP TO THE LINE SIDE OF THE NEW ATS LOCATION.
6. INSTALL NEW NEMA 3R LOAD BANK AND ASSOCIATED POWER FEEDER AND CONTROL CIRCUIT UP TO NEW GENERATOR MODULE.
7. INSTALL A NEW IN-GRADE JUNCTION BOX NEAR THE EXISTING PAD-MOUNT CT/METERING ENCLOSURE TO INTERCEPT EXISTING SERVICE LATERALS.
8. INSTALL NEW NEMA 3R PAD-MOUNT CT/METERING, FIRE PUMP TAP SECTION, AND SERVICE ENTRANCE EQUIPMENT ADJACENT TO THE EXISTING MEA UTILITY PAD-MOUNT TRANSFORMER.
9. INSTALL A NEW SERVICE FEEDERS BETWEEN NEW CT/METER AND IN-GRADE JUNCTION BOX.
10. INSTALL A NEW IN-GRADE JUNCTION BOX NEAR THE EXISTING PAD-MOUNT CT/METER ENCLOSURE TO INTERCEPT THE LINE SIDE FEEDERS TO THE EXISTING MDP LOCATED INSIDE THE FIRST FLOOR ELECTRICAL ROOM.
11. INSTALL NEW NEMA 3R PAD-MOUNT ATS ADJACENT TO THE NEW SERVICE ENTRANCE EQUIPMENT.
12. INSTALL NEW LOAD SIDE FEEDERS OF THE NEW ATS TO THE IN-GRADE JUNCTION BOX.
13. COORDINATE WITH UTILITY FOR A POWER OUTAGE PRIOR TO DISCONNECT THE SERVICE LATERALS THAT ARE CURRENTLY CONNECT TO THE EXISTING NEMA 3R CT/METER ENCLOSURE.
14. DISCONNECT THE SERVICE LATERALS TO THE UTILITY TRANSFORMER SECONDARY SIDE AND LINE SIDE OF THE MAIN SERVICE DISCONNECT OF THE MDP.
15. REMOVE THE EXISTING NEMA 3R CT/METER ENCLOSURE AND CONCRETE HOUSEKEEPING PAD.
16. PERFORM INSULATION RESISTANCE TEST ON EACH CONDUCTOR PRIOR TO RECONNECTING EXISTING SERVICE LATERALS TO THE LINE SIDE OF THE NEW CT/METER ENCLOSURE.
17. PERFORM INSULATION RESISTANCE TEST ON EACH CONDUCTOR PRIOR TO RECONNECT EXISTING LINE FEEDERS TO LOAD SIDE OF THE NEW ATS.
18. PERFORM CUTOVER TO UTILITY POWER.
19. PERFORM INITIAL STARTUP TESTING ON NEW GENERATOR AND ATS.
20. PERFORM FINAL TESTING AND COMMISSIONING ON NEW GENERATOR AND ATS.

LEGEND

| | |
|------|---|
| | CONDUIT, CONCEALED |
| | NUMBER AND SIZE OF WIRES (NO MARKS = 3 #12) |
| | HOMERUN TO PANEL (PANEL AND CIRCUIT No.) |
| | EXISTING PANEL |
| | DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER |
| | PADMOUNT TRANSFORMER |
| | IN GRADE EXTERIOR JUNCTION BOX |
| | DISCONNECT SWITCH |
| | DISCONNECT SWITCH (FUSED) |
| | CIRCUIT BREAKER (No. INDICATED BREAKER SIZE AND POLE) |
| | DRY-TYPE TRANSFORMER |
| | AUTOMATIC TRANSFER SWITCH |
| | DISCONNECT SWITCH |
| | DISCONNECT SWITCH (FUSED) |
| | GROUNDING |
| | METER |
| | SHUNT TRIP |
| | GROUND FAULT PROTECTION |
| | ARC-FAULT REDUCTION MAINTENANCE SWITCH |
| | SURGE PROTECTION DEVICE |
| | DISCONNECT SWITCH TO BE REMOVED (DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED TYPICAL) |
| | CIRCUIT BREAKER (1ST NUMBER IS AMP FRAME, 2ND NUMBER IS AMP TRIP) |
| | FEEDER TAG (No. INDICATES CIRCUIT) |
| | NOTE TAG (No. INDICATES NOTE) |
| A | AMPERE |
| AFG | ABOVE FINISHED GRADE |
| AIC | AMPERES INTERRUPTING CAPACITY |
| ATS | AUTOMATIC TRANSFER SWITCH |
| C | CONDUIT |
| CT | CURRENT TRANSFORMER |
| E | DENOTES EXISTING ITEM |
| GRSC | GALVANIZED RIGID STEEL CONDUIT |
| KVA | KILO VOLT AMP |
| KW | KILO-WATT |
| MDP | MAIN DISTRIBUTION PANEL |
| MLO | MAIN LUGS ONLY |
| NEC | NATIONAL ELECTRICAL CODE |
| RMC | RIGID METAL CONDUIT |
| SE | SERVICE ENTRANCE |
| UG/C | UNDERGROUND COMMUNICATION |
| UG/E | UNDERGROUND ELECTRIC |
| UT | UTILITY |
| V | VOLT |

ELECTRICAL LOAD ANALYSIS

| | |
|--|-------------------|
| PROJECT: VALLEY PRIMARY CARE CENTER (VNPCC) GENERATOR REPLACEMENT WASILA, ALASKA | |
| EXISTING FACILITY SERVICE IS 2500AF/250AT, 277/480V, 3-PHASE, 4-WIRE | |
| EXISTING FEEDER: (7) 3.5" C, 4#500 kcmil, 1#3/0 GND CU | |
| EXISTING DEMAND LOAD (NEC 220.87) | |
| EXISTING PEAK DEMAND LOAD (MEA - 8/8/2023) | 299.00 kW |
| PER NEC 220.87 (125%) | 373.75 kW |
| POWER FACTOR OF 0.85 | 439,706 VA |
| REMOVED LOADS | |
| GENERATOR BATTERY CHARGER | 1,200 VA |
| GENERATOR HEATERS | 1,850 VA |
| TOTAL EXISTING LOAD REMOVED | -3,050 VA |
| ADDED LOADS | |
| WEATHERPROOF WALK-IN GENERATOR MODULE | |
| LIGHTING | 120 VA |
| FACP | 200 VA |
| RECEPTACLE | 540 VA |
| MOTORIZED CONTROL CIRCUIT | 500 VA |
| 2-ELECTRIC HEATER EACH @ 4KW, 208V, | 8,000 VA |
| BATTERY CHARGER | 1,200 VA |
| TOTAL GENERATOR MODULE LOAD | 10,560 VA |
| MRI EQUIPMENT - 150 KW, 480V, 3-PHASE (FUTURE) | 150,000 VA |
| CT SCAN - 125 KW, 480V, 3-PHASE (FUTURE) | 125,000 VA |
| CHILLER - 75A, 480V, 3-PHASE (FUTURE) | 62,280 VA |
| TOTAL CALCULATED DEMAND LOAD IN VOLT-AMP: | 784,496 VA |
| 10% SPARE CAPACITY FOR FUTURE EXPANSION | 78,450 VA |
| NET CALCULATED DEMAND LOAD IN VA: | 862,945 VA |
| NET CALCULATED DEMAND LOAD IN VA: | 1038 AMPS |

GENERATOR SIZING:

APPLY 30% INCREASE TO SIZE THE GENERATOR TO ACCOMMODATE THE MRI UNIT: $1.30 * (862,945 VA * 0.8 PF) = 897,462 W$ OR 897KW. A 900 KW 277/480V, 3-PHASE, 4-WIRE DIESEL-FIRED GENERATOR (STANDBY) IS RECOMMENDED.

SHORT CIRCUIT CALCULATION SUMMARY

FAULT ANALYSIS WAS PERFORMED USING POINT-TO-POINT METHOD. THE FOLLOWING ARE THE UTILITY CONTRIBUTION AND EQUIPMENT ASSUMPTIONS:

| | |
|--|---------------|
| AVAILABLE FAULT CURRENT AT UTILITY XFMR: | INFINITE BUS |
| UTILITY TRANSFORMER SIZE: | 1000 KVA |
| UTILITY TRANSFORMER IMPEDENCE: | 5.00 % |
| SERVICE LATERAL # PARALLEL RUNS: | 6 EA. |
| SERVICE LATERAL SIZE: | #500 KCMIL Cu |
| SERVICE LATERAL LENGTH: | 40 FEET |
| SERVICE LATERAL CONDUIT TYPE: | PVC |
| TOTAL MOTOR CONTRIBUTIONS: | 0 AMPS |

AVAILABLE FAULT CURRENT AT SERVICE DISCONNECT: **23547 A RMS (SYM)**

NOTE: VERIFY THE ABOVE TRANSFORMER RATINGS AND SERVICE LATERAL SIZE/TYPE WITH LOCAL UTILITY PRIOR TO ORDERING EQUIPMENT. ADJUST EQUIPMENT SHORT CIRCUIT RATINGS ACCORDINGLY BASED ON ACTUAL EQUIPMENT INSTALLED BY UTILITY. INSTALL LABEL ON SERVICE EQUIPMENT INDICATING DATE AND FINAL CALCULATION RESULTS PER NEC 110.24.

SOUTHCENTRAL FOUNDATION
 VNPCC NEW GENERATOR
 PERMIT DOCUMENTS
 1001 S. GOOSE BAY ROAD, WASILLA, AK 99654

REVISION SCHEDULE

| # | DESCRIPTION | DATE |
|---|-------------|------|
| | | |
| | | |

JOB NO. M2209.10
DATE 10/27/2023
DRAWN XPT
REVIEWED XPT, DB, RW

SHEET NAME
LEGEND, PROJECT PHASING
SCHEDULE, AND CALCULATIONS

SHEET NO.
E001

HALF-SCALE AT 11X17

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL CALL FOR A UTILITY LOCATE A MINIMUM OF TWO WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION. CONTRACTOR SHALL REPAIR AT NO COST TO THE OWNER ANY INTERRUPTED SERVICE OR UTILITIES

ALASKA DIGLINE, INC.
PO BOX 773005
EAGLE RIVER, AK 99577

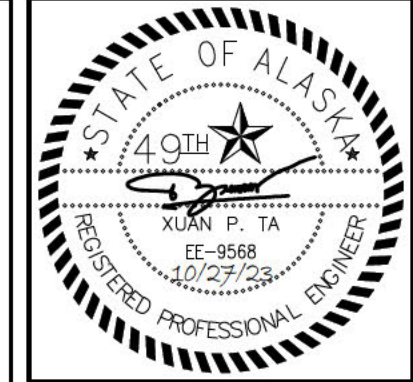
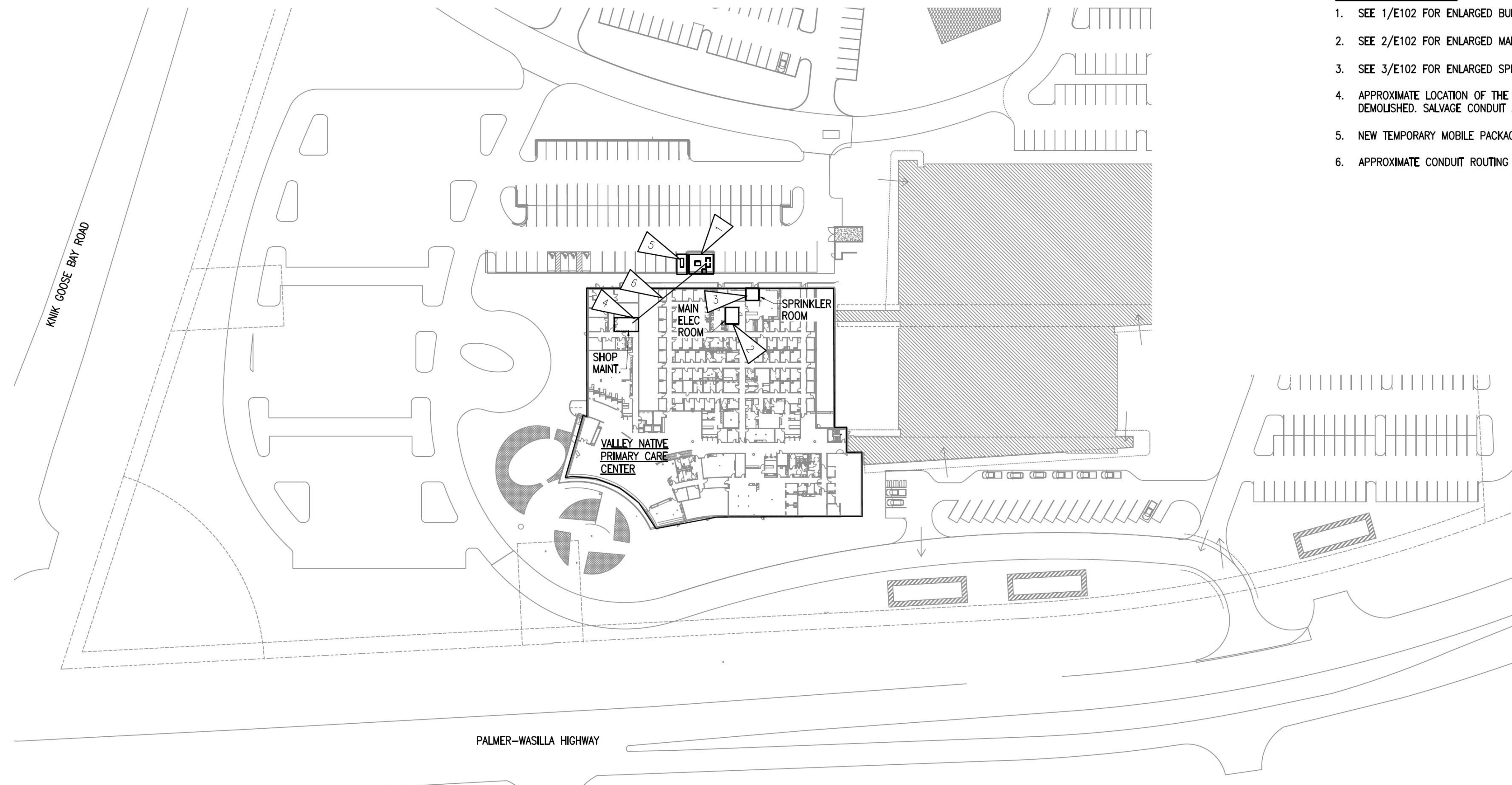
STATEWIDE LOCATES: 1-800-478-3121
ANCHORAGE AREA: 1-907-278-3121
FAX-A-LOCATE: 1-907-278-0696
E-TICKET: www.811ak.com

GENERAL NOTES

- THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS-BUILT DRAWINGS DATED 11/07/2012 AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
- THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
- DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- SEE E001 FOR PROJECT PHASING SCHEDULE.

SHEET NOTES

- SEE 1/E102 FOR ENLARGED BUILDING SERVICE PLAN.
- SEE 2/E102 FOR ENLARGED MAIN ELECTRICAL ROOM PLAN.
- SEE 3/E102 FOR ENLARGED SPRINKLER RISER ROOM PLAN.
- APPROXIMATE LOCATION OF THE GENERATOR ANNUNCIATOR PANEL TO BE DEMOLISHED. SALVAGE CONDUIT AND CONDUCTORS FOR REUSE.
- NEW TEMPORARY MOBILE PACKAGED GENERATOR. SEE 1/E102.
- APPROXIMATE CONDUIT ROUTING TO GENERATOR CONTROL PANEL.



SOUTHCENTRAL FOUNDATION
VNPCC NEW GENERATOR
PERMIT DOCUMENTS
1001 S. GOOSE BAY ROAD, WASILLA, AK 99654

| REVISION SCHEDULE | | |
|-------------------|-------------|------|
| # | DESCRIPTION | DATE |
| | | |

| | |
|----------|-------------|
| JOB NO. | M2209.10 |
| DATE | 10/27/2023 |
| DRAWN | LKA, XPT |
| REVIEWED | XPT, DB, RW |

SHEET NAME
ELECTRICAL DEMOLITION
SITE PLAN

SHEET NO.
E101

HALF-SCALE AT 11X17

1 ELECTRICAL DEMOLITION SITE PLAN

1" = 60'-0"

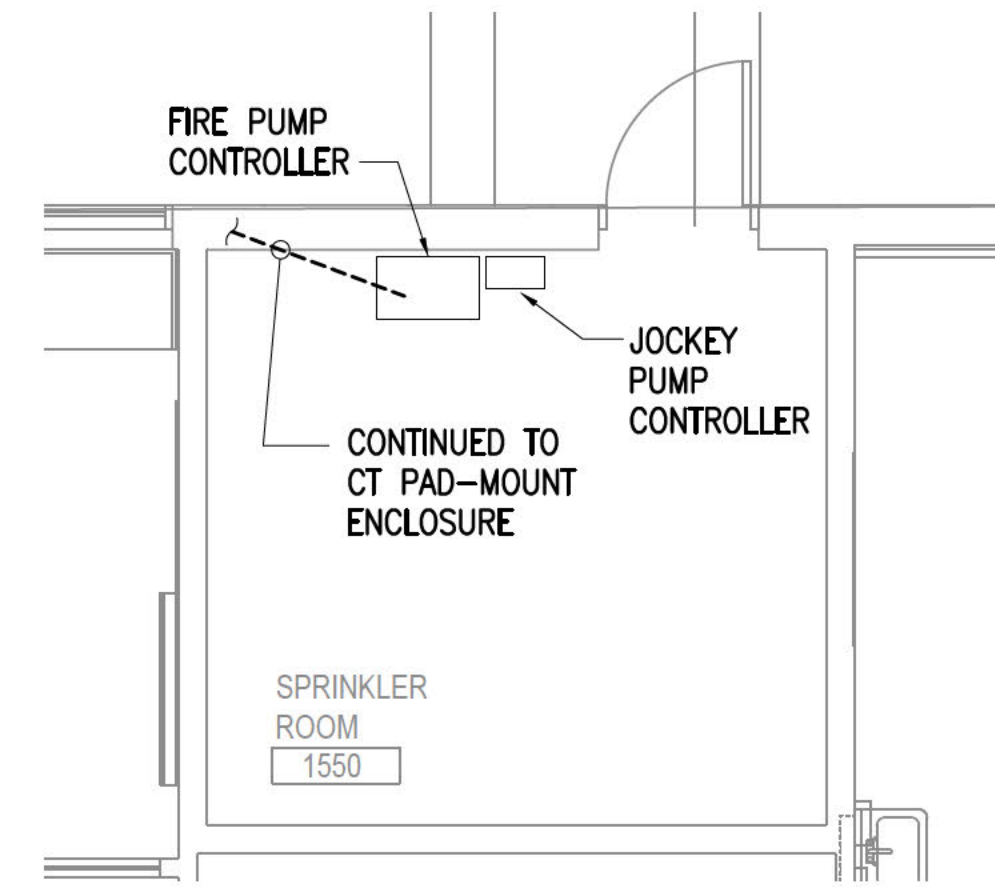


GENERAL NOTES:

- A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS-BUILT DRAWINGS DATED 11/07/2012 AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
- B. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
- C. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- D. SEE 1/E103 FOR DETAILED NOTES REGARDING DEMOLITION OF EQUIPMENT, CONDUIT AND WIRING SHOWN ON THIS SHEET.

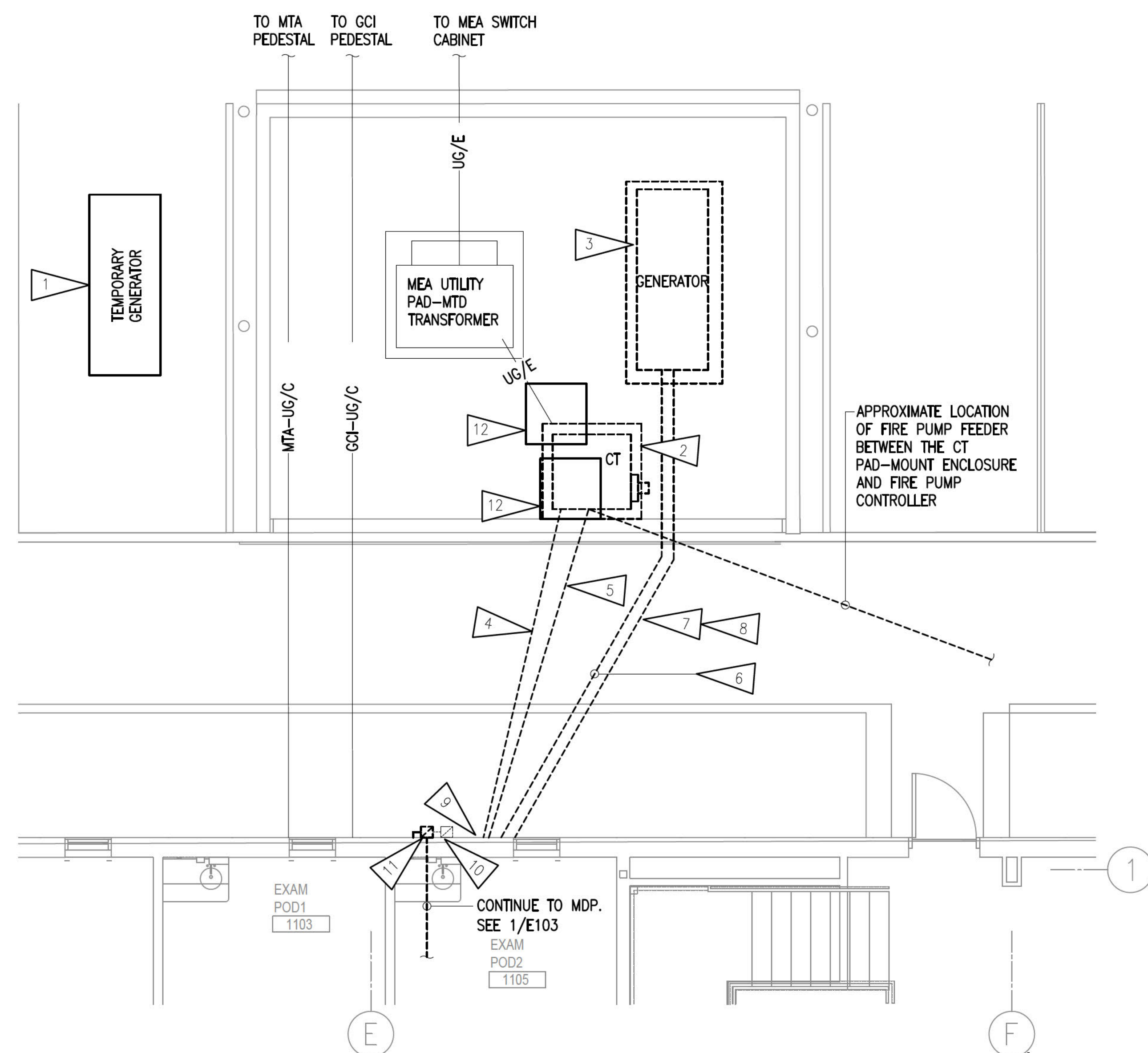
SHEET NOTES:

- 1. APPROXIMATE LOCATION OF A NEW TEMPORARY MOBILE GENERATOR. SEE 1/E103.
- 2. DEMOLISH CT AND METERING PAD-MOUNT ENCLOSURE. SEE 1/E103.
- 3. DEMOLISH OUTDOOR PACKAGED GENERATOR WITH SUB-BASED FUEL TANK. SEE 1/E103.
- 4. APPROXIMATE LOCATION OF EXISTING FIRE PUMP FEEDER BETWEEN THE CT PAD-MOUNT ENCLOSURE AND FIRE PUMP CONTROLLER.
- 5. APPROXIMATE LOCATION OF EXISTING FEEDERS BETWEEN THE CT PAD-MOUNT ENCLOSURE AND MAIN DISTRIBUTION PANEL.
- 6. APPROXIMATE LOCATION OF FEEDER BETWEEN THE EXISTING GENERATOR AND ATS-1 AND ATS-2.
- 7. EXISTING CONDUIT AND WIRE BETWEEN THE GENERATOR ACCESSORIES AND PANEL 'SA1' FOR POWER CONNECTIONS.
- 8. EXISTING CONDUIT AND WIRE BETWEEN THE GENERATOR CONTROL PANEL AND AUTOMATIC TRANSFER SWITCHES AND THE REMOTE GENERATOR ANNUNCIATOR PANEL FOR CONTROL AND SIGNAL CONNECTIONS.
- 9. APPROXIMATE LOCATION OF EXISTING (16) 4" CONDUIT SLEEVES 2'-0" BELOW GRADE ON NORTH STRUCTURAL WALL ALONG GRID LINE 1 AND E3.
- 10. EXISTING GENERATOR SHUNT TRIP DISCONNECT SWITCH TO REMAIN.
- 11. DEMOLISH UTILITY SHUNT TRIP DISCONNECT SWITCH.
- 12. PROVIDE AND LOCATE NEW POLYMER CONCRETE STACKABLE IN-GRADE JUNCTION BOX TO INTERCEPT EXISTING UTILITY SERVICE LATERALS AND MAIN FEEDERS AFTER THE CT/METERING PAD-MOUNT ENCLOSURE ARE DEMOLISHED. SEE 2/E301.

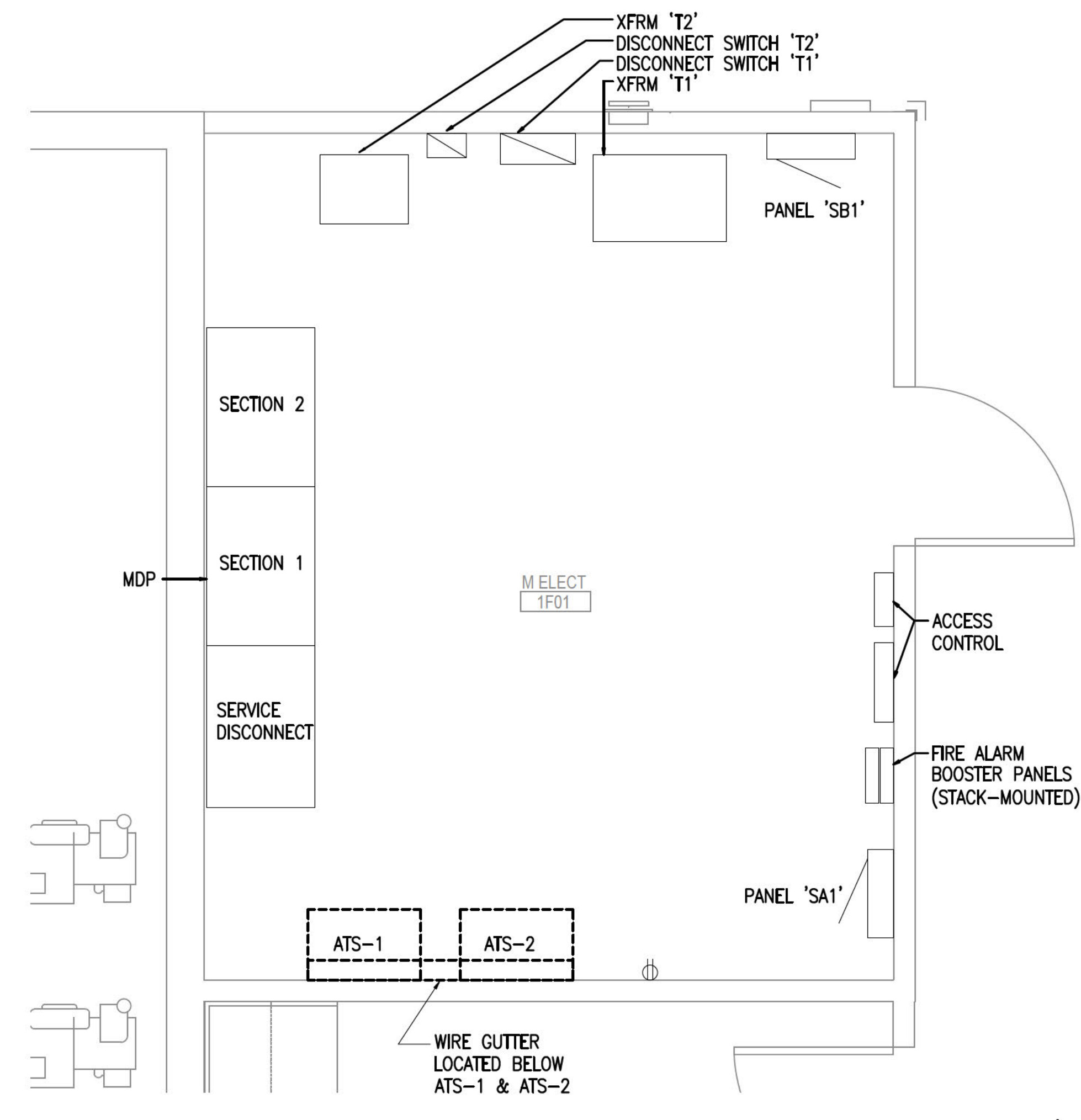


ENLARGED SPRINKLER ROOM

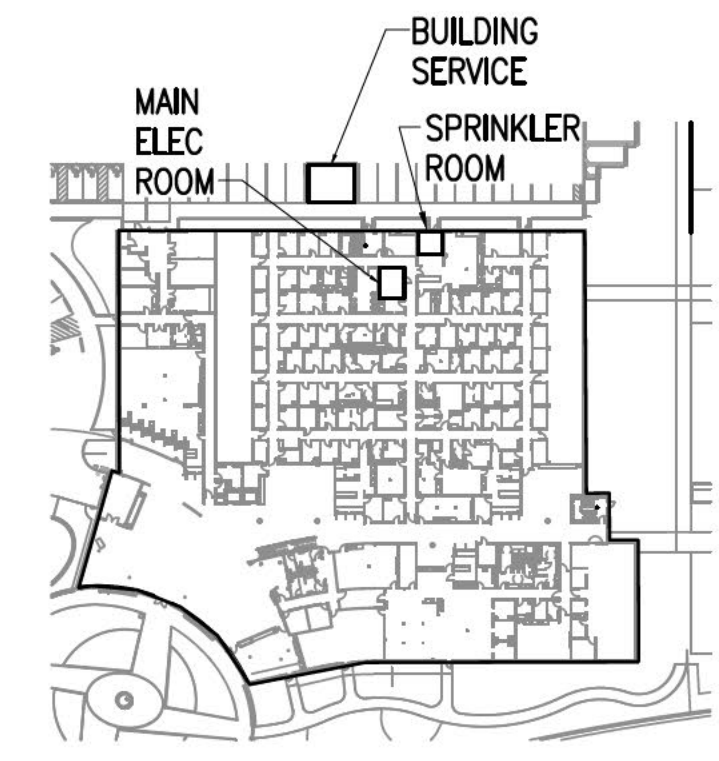
3 POWER DEMOLITION PLAN
1/4" = 1'-0"



1 ENLARGED BUILDING SERVICE DEMOLITION PLAN
1/4" = 1'-0"



2 ENLARGED ELEC ROOM POWER DEMOLITION PLAN
1/2" = 1'-0"



KEY PLAN
1" = 100'

SOUTHCENTRAL FOUNDATION
VNPCC NEW GENERATOR
PERMIT DOCUMENTS
1001 S. GOOSE BAY ROAD, WASILLA, AK 99654

| REVISION SCHEDULE | |
|-------------------|-------------|
| # | DESCRIPTION |
| | |

| | |
|----------|-------------|
| JOB NO. | M2209.10 |
| DATE | 10/27/2023 |
| DRAWN | LKA, XPT |
| REVIEWED | XPT, DB, RW |

SHEET NAME
ENLARGED DEMOLITION PLANS

SHEET NO.
E102

HALF-SCALE AT 11X17



SOUTH CENTRAL FOUNDATION
 VNPCC NEW GENERATOR
 PERMIT DOCUMENTS
 1001 S. GOOSE BAY ROAD, WASILLA, AK 99654

| REVISION SCHEDULE | | |
|-------------------|-------------|------|
| # | DESCRIPTION | DATE |
| | | |

| | |
|----------|-------------|
| JOB NO. | M2209.10 |
| DATE | 10/27/2023 |
| DRAWN | XPT |
| REVIEWED | XPT, DB, RW |

SHEET NAME
POWER ONE-LINE DIAGRAM -
DEMOLITION

SHEET NO.
E103

HALF-SCALE AT 11X17

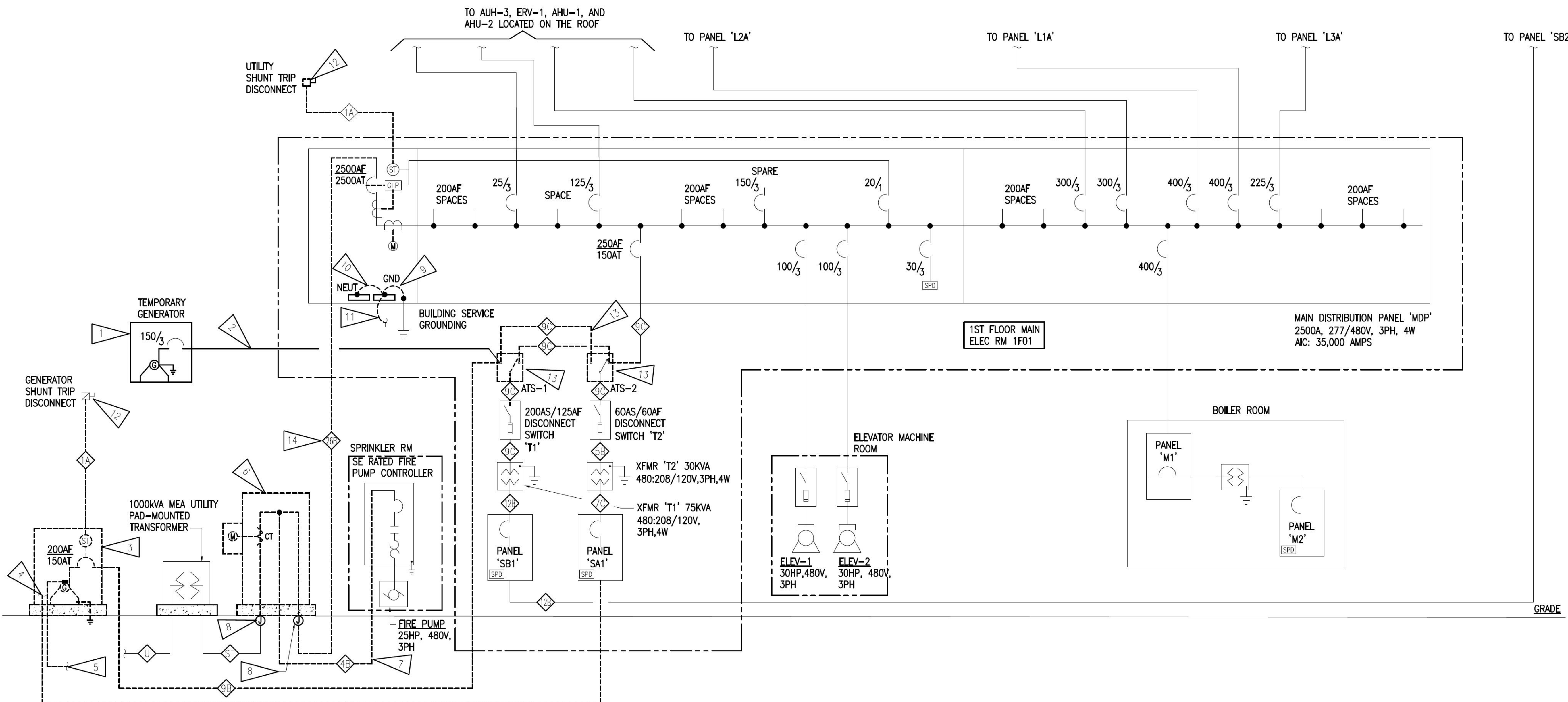
GENERAL NOTES:

- A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS-BUILT DRAWINGS AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
- B. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
- C. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- D. SEE E001 FOR PROJECT PHASING SCHEDULE.
- E. SALVAGE CONDUIT FOR REUSE TO THE FULLEST EXTENT PRACTICAL.

SHEET NOTES:

1. CONTRACTOR TO PROVIDE A TEMPORARY 80KW/100KVA, 277/480V, 3-PHASE, 4-WIRE DIESEL-FIRED MOBILE PACKAGED GENERATOR TO PROVIDE STANDBY POWER FOR THE EXISTING DENTAL EQUIPMENT, LIGHTING, GENERATOR ACCESSORIES, REEFERS, AND DATA RACK EQUIPMENT VIA TWO AUTOMATIC TRANSFER SWITCHES. THE AUTOMATIC TRANSFER SWITCHES ARE CURRENTLY LOCATED IN THE FIRST FLOOR MAIN ELECTRICAL ROOM 1F01. SEE 1/E102. DISABLE AND REMOVE TEMPORARY GENERATOR AND ASSOCIATED FEEDERS AFTER PERMANENT GENERATOR SERVICE INSTALLED.
2. CONTRACTOR TO PROVIDE 2", 4#1/0, 1#6 GND BETWEEN THE TEMPORARY MOBILE PACKAGED GENERATOR LINE CIRCUIT BREAKER AND ATS-2.
3. DEMOLISH 80KW/100KVA, 277/480V, 3-PHASE, 4-WIRE DIESEL-FIRED GENERATOR (STANDBY).
4. DEMOLISH BRANCH CIRCUIT WIRING BETWEEN THE GENERATOR AND PANEL 'SA1' FOR ENGINE BLOCK HEATER, BATTERY HEATER, AND BATTERY CHARGER.
5. DEMOLISH CONTROL WIRES BETWEEN THE GENERATOR CONTROL PANEL AND TWO AUTOMATIC TRANSFER SWITCHES AND CONTROL/SIGNAL WIRES BETWEEN THE GENERATOR CONTROL PANEL AND THE REMOTE GENERATOR ANNUNCIATOR PANEL.
6. DEMOLISH CT AND METERING PAD-MOUNT ENCLOSURE.
7. DEMOLISH FIRE PUMP FEEDER.
8. PROVIDE A PROPERLY SIZED 2'-10"W x 2'-10"L x 2'D CONCRETE IN-GRADE JUNCTION BOX OPEN BOTTOM WITH CAST IRON TRAFFIC RATED "ELECTRIC" LID FOR TERMINATING EXISTING UTILITY SERVICE LATERALS OR MAIN FEEDERS TO NEW LOCATION. PRE-CAST CONCRETE COMPANY TYPE 2 JUNCTION BOX OR EQUAL. LOCATE JUNCTION BOX TO INTERCEPT EXISTING UTILITY SERVICE LATERALS AND MAIN FEEDERS AFTER THE EXISTING CT AND METERING PAD-MOUNT ENCLOSURE IS REMOVED.
9. DISCONNECT AND REMOVE GROUNDING ELECTRODE CONDUCTORS BETWEEN THE EQUIPMENT GROUNDING BUS AND GROUNDING ELECTRODES. ABANDON GROUNDING ELECTRODES IN PLACE.
10. DISCONNECT AND REMOVE SYSTEM BONDING JUMPER BETWEEN THE EQUIPMENT GROUNDING AND NEUTRAL BUSES.
11. DISCONNECT AND REMOVE GROUNDING ELECTRODE CONDUCTORS INSTALLED FROM THE EQUIPMENT GROUNDING BUS TO BUILDING STEEL, TO IT SYSTEM, TO CONCRETE-ENCASED ELECTRODE, AND TO WATER SERVICE PIPE. SEE E203 FOR NEW WORK.
12. GENERATOR AND UTILITY SHUNT TRIP DISCONNECT SWITCH TO REMAIN. SALVAGE CONDUIT AND WIRES TO THE EXTENT POSSIBLE FOR RE-USE.
13. DEMOLISH ATS-1 AND ATS-2, WIREGUTTER, AND ASSOCIATED LINE SIDE AND LOAD SIDE FEEDERS AFTER PERMANENT GENERATOR SERVICE INSTALLED.
14. DEMOLISH CONDUCTORS NOTED. SALVAGE CONDUITS TO FURTHEST EXTENT PRACTICAL.

| FEEDER SCHEDULE | | |
|-----------------|--------------|---|
| FEEDER NUMBER | BREAKER SIZE | CONDUIT AND WIRES SIZE |
| U | - | UNDERGROUND PRIMARY CONNECTION BY MEA |
| SE | - | UNDERGROUND SERVICE LATERALS BY MEA |
| 1A | 20A | 1/2"EMT, 2#12, 1#12 GND |
| 4B | 45,50 | 1.25"EMT, 3#6, 1#10 GND |
| 5B | 60 | 1.25"EMT, 3#4, 1#10 GND |
| 7C | 80-110 | 1.5"EMT, 3#2, 1#8GND |
| 9B | 150 | 2"RMC, 4#1/0, 1#6 GND |
| 9C | 150 | 2"EMT, 4#1/0, 1#6 GND |
| 12B | 225 | 2"EMT, 4#4/0, 1#2 GND |
| 26B | 2500 | (7) RUNS EACH 3.5"RMC, 4#500 kcmil 1#3/0 GND |



1 PARTIAL POWER ONE-LINE DIAGRAM - DEMOLITION PLAN
NOT TO SCALE

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL CALL FOR A UTILITY LOCATE A MINIMUM OF TWO WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION. CONTRACTOR SHALL REPAIR AT NO COST TO THE OWNER ANY INTERRUPTED SERVICE OR UTILITIES

ALASKA DIGLINE, INC.
PO BOX 773005
EAGLE RIVER, AK 99577

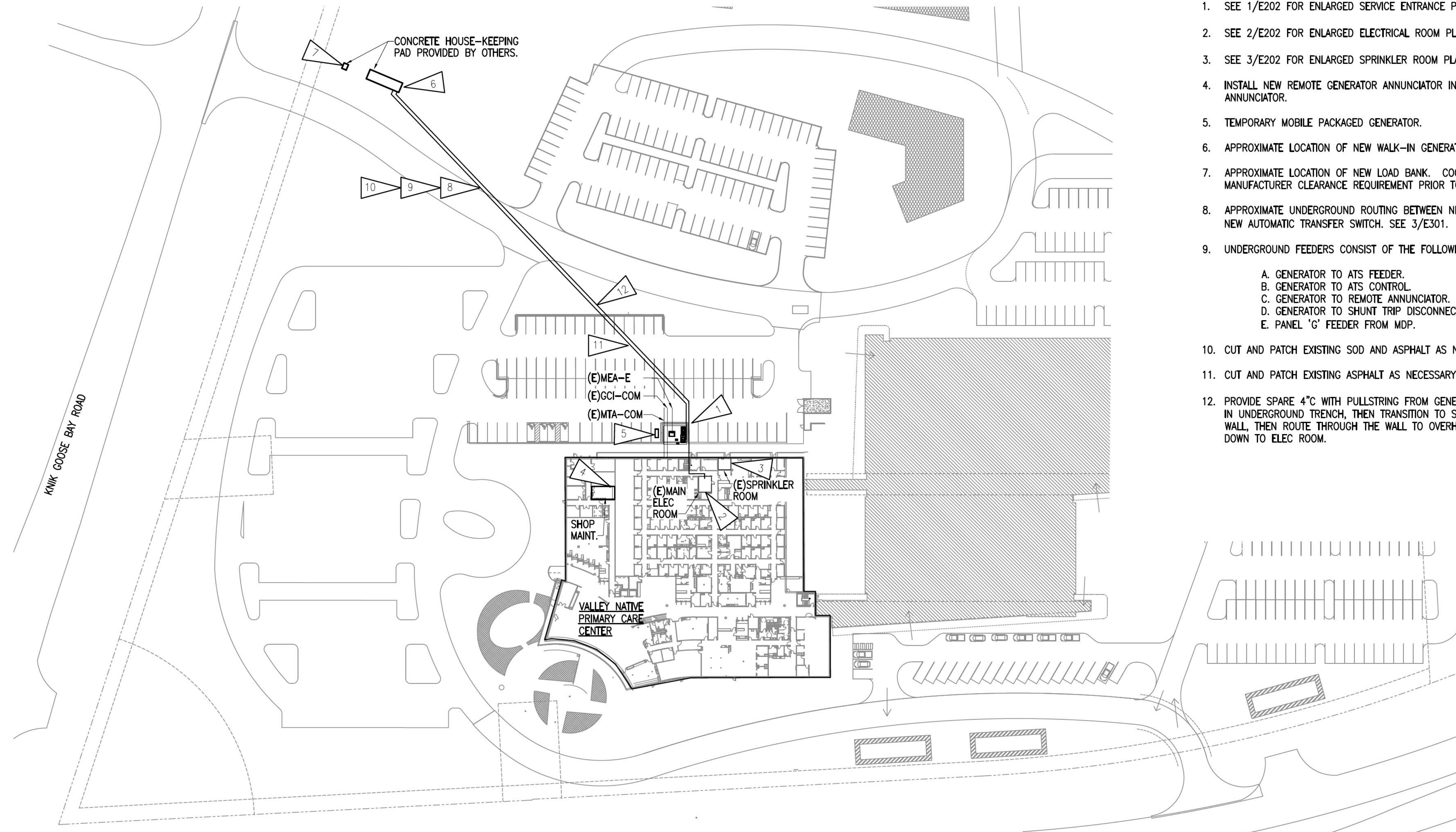
STATEWIDE LOCATES: 1-800-478-3121
ANCHORAGE AREA: 1-907-278-3121
FAX-A-LOCATE: 1-907-278-0696
E-TICKET: www.811ak.com

GENERAL NOTES

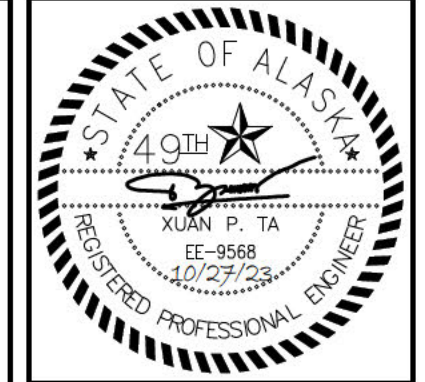
- A. FIELD COORDINATE WITH MATANUSKA ELECTRIC ASSOCIATION, INC. FOR REGULATIONS AND REQUIREMENTS PRIOR TO ROUGH-IN.
- B. SEE CIVIL FOR CONCRETE HOUSEKEEPING PAD FOR MOUNTING NEW CT/METER, SERVICE DISCONNECT, AND ATS. PAD SHALL EXTEND NOT MORE THAN 6" BEYOND THE FRONT OF THE ELECTRICAL EQUIPMENT.
- C. SEE E001 FOR PROJECT PHASING SCHEDULE.
- D. SEE 1/E203 FOR DETAILED NOTES REGARDING NEW EQUIPMENT, CONDUITS, AND WIRING SHOWN ON THIS SHEET.
- E. ROUTE TO AVOID CONFLICTS WITH OTHER UNDERGROUND UTILITIES.

SHEET NOTES

1. SEE 1/E202 FOR ENLARGED SERVICE ENTRANCE PLAN.
2. SEE 2/E202 FOR ENLARGED ELECTRICAL ROOM PLAN.
3. SEE 3/E202 FOR ENLARGED SPRINKLER ROOM PLAN.
4. INSTALL NEW REMOTE GENERATOR ANNUNCIATOR IN LOCATION OF PREVIOUSLY DEMOLISHED ANNUNCIATOR.
5. TEMPORARY MOBILE PACKAGED GENERATOR.
6. APPROXIMATE LOCATION OF NEW WALK-IN GENERATOR MODULE.
7. APPROXIMATE LOCATION OF NEW LOAD BANK. COORDINATE WITH LOAD BANK MANUFACTURER CLEARANCE REQUIREMENT PRIOR TO INSTALLING.
8. APPROXIMATE UNDERGROUND ROUTING BETWEEN NEW WALK-IN GENERATOR MODULE AND NEW AUTOMATIC TRANSFER SWITCH. SEE 3/E301.
9. UNDERGROUND FEEDERS CONSIST OF THE FOLLOWING:
 - A. GENERATOR TO ATS FEEDER.
 - B. GENERATOR TO ATS CONTROL.
 - C. GENERATOR TO REMOTE ANNUNCIATOR.
 - D. GENERATOR TO SHUNT TRIP DISCONNECT.
 - E. PANEL 'G' FEEDER FROM MDP.
10. CUT AND PATCH EXISTING SOD AND ASPHALT AS NECESSARY TO INSTALL NEW FEEDERS.
11. CUT AND PATCH EXISTING ASPHALT AS NECESSARY TO INSTALL NEW FEEDERS.
12. PROVIDE SPARE 4" WITH PULLSTRING FROM GENERATOR MODULE TO ELEC ROOM. ROUTE IN UNDERGROUND TRENCH, THEN TRANSITION TO SURFACE MOUNT ON BUILDING EXTERIOR WALL, THEN ROUTE THROUGH THE WALL TO OVERHEAD CEILING SPACES, AND TRANSITION DOWN TO ELEC ROOM.



1 ELECTRICAL REMODEL SITE PLAN
1" = 60'-0"



SOUTH CENTRAL FOUNDATION
 VNPCC NEW GENERATOR
 PERMIT DOCUMENTS
 1001 S. GOOSE BAY ROAD, WASILLA, AK 99654

| REVISION SCHEDULE | | |
|-------------------|-------------|------|
| # | DESCRIPTION | DATE |
| | | |

JOB NO. M2209.10
DATE 10/27/2023
DRAWN LKA, XPT
REVIEWED XPT, DB, RW

SHEET NAME
ELECTRICAL REMODEL
SITE PLAN

SHEET NO.
E201

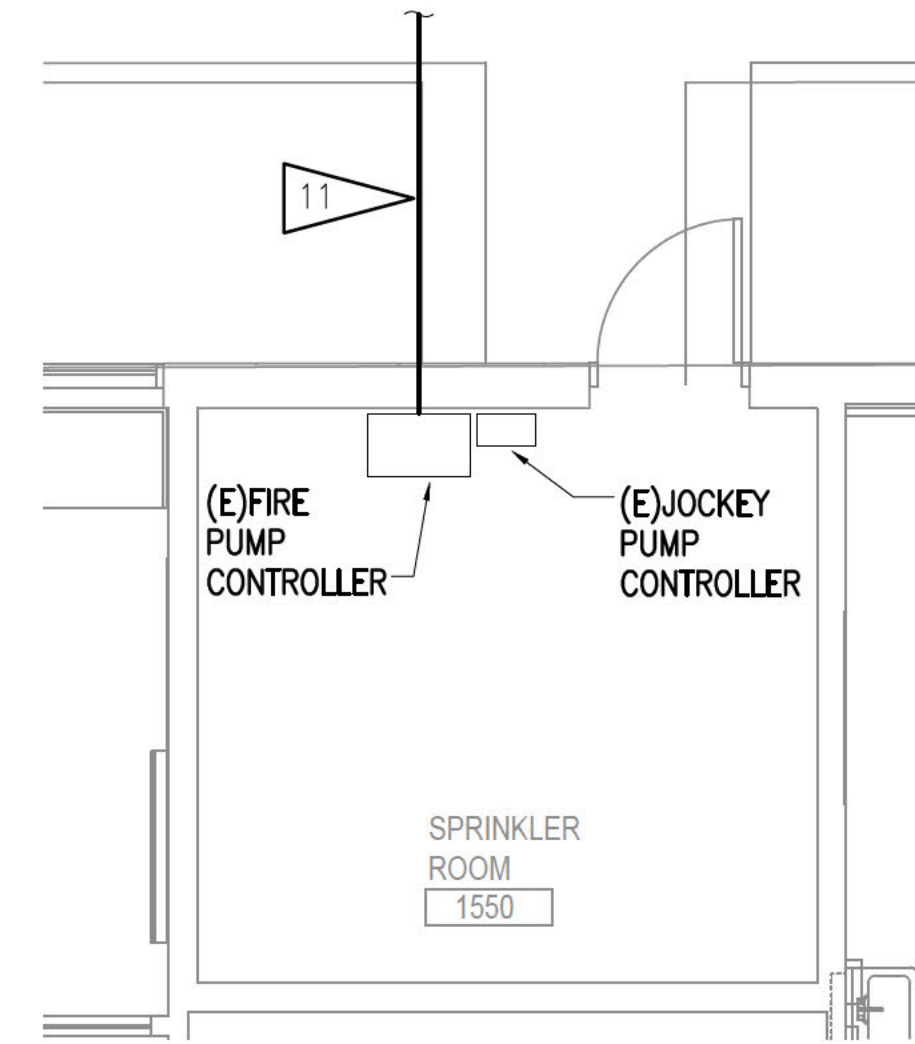
HALF-SCALE AT 11X17

GENERAL NOTES:

- A. SEE E001 FOR PROJECT PHASING SCHEDULE.
- B. SEE 1/E203 FOR DETAIL NOTES REGARDING NEW EQUIPMENT, CONDUIT AND WIRING SHOWN ON THIS SHEET.

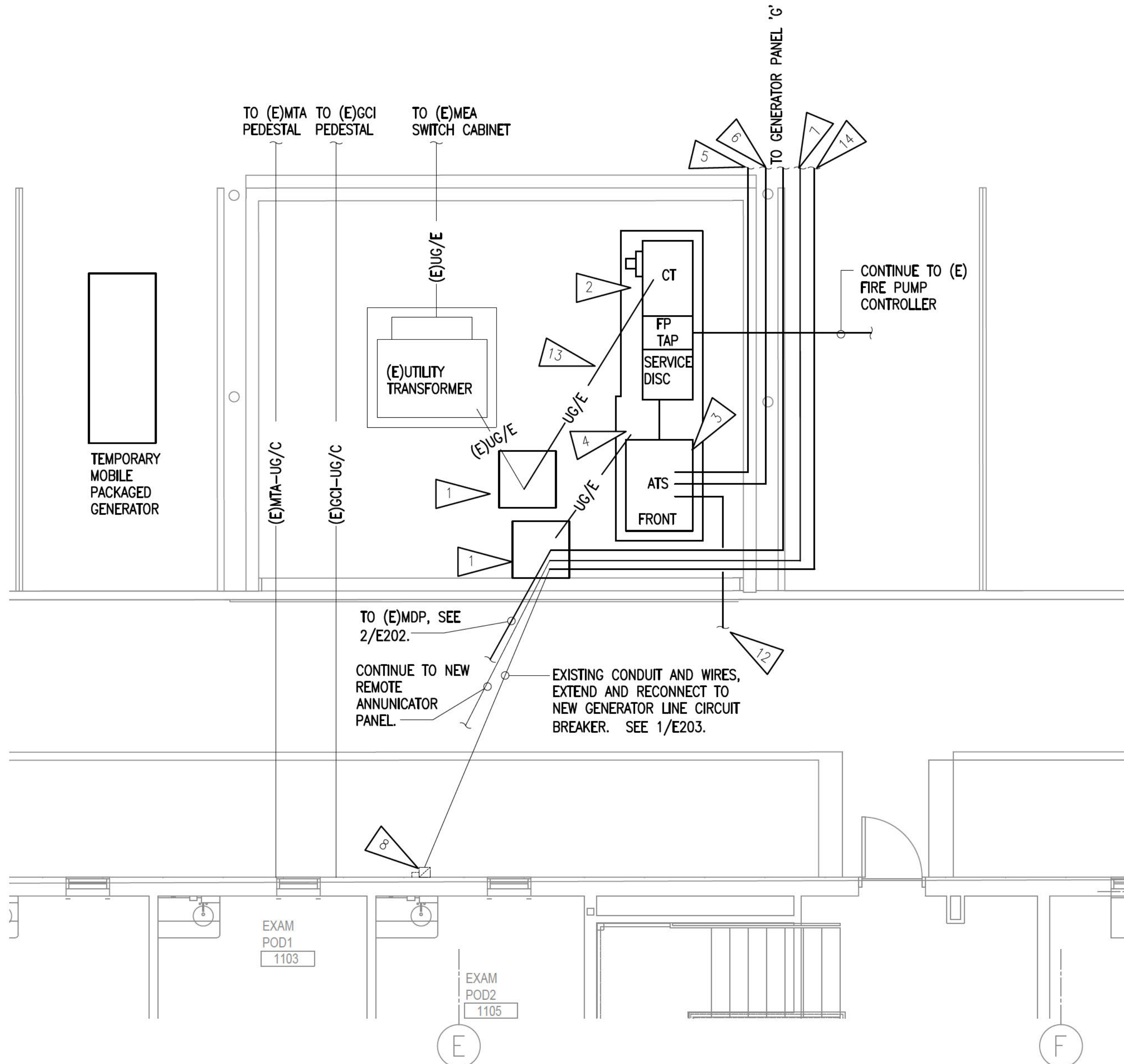
SHEET NOTES:

1. CONCRETE IN-GRADE TYPE 2 JUNCTION BOX FOR TERMINATING AND/OR EXTENDING EXISTING UTILITY SERVICE LATERALS OR MAIN FEEDERS. SEE 2/E301.
2. NEW SERVICE EQUIPMENT EUSERC RATED CT/METER AND SERVICE DISCONNECT SWITCH IN NEMA 3R PAD-MOUNTED ENCLOSURE.
3. NEW ATS NEMA 3R PAD-MOUNT ENCLOSURE.
4. MAINTAIN 4'-0" WORKING CLEARANCE AT THE LEFT SIDE OF THE ATS FOR SIDE ACCESS.
5. NEW FEEDERS BETWEEN THE ATS AND GENERATOR. SEE 1/E201 FOR CONTINUATION.
6. 1" C WITH WIRES FOR START SIGNAL PROVIDED BY GENERATOR MANUFACTURER. COORDINATE WITH GENERATOR MANUFACTURER FOR WIRE COUNT AND SIZE.
7. 1" C WITH CONTROL/SIGNAL WIRES FOR CONNECTION TO THE NEW GENERATOR ANNUNCIATOR PANEL.
8. EXISTING GENERATOR SHUNT TRIP.
9. EXISTING FEEDER CONDUITS AND WIRES, EXTEND AND RECONNECT TO NEW ATS.
10. NEW FEEDER TO THE NEW GENERATOR PANEL 'G' LOCATED IN THE WEATHERPROOF WALK-IN MODULE. ROUTE OVERHEAD THROUGH CEILING SPACES TO BUILDING EXTERIOR AND THEN TRANSITION TO UNDERGROUND TRENCH.
11. NEW FEEDER TO NEW TAP BOX FOR EXISTING FIRE PUMP CONNECTION. ROUTE THROUGH EXTERIOR WALL AND THEN TRANSITION TO UNDERGROUND TRENCH.
12. PROVIDE 1" C WITH SIGNAL WIRES TO EACH EXISTING ELEVATOR CONTROL PANEL FOR BIDDING PURPOSES, ASSUME 245' AWAY FROM ATS.
13. NEW CONDUITS FOR UTILITY CONNECTION. SEE 1/E203.
14. 1" C WITH CONTROL WIRES FOR SHUNT TRIP CONNECTION.

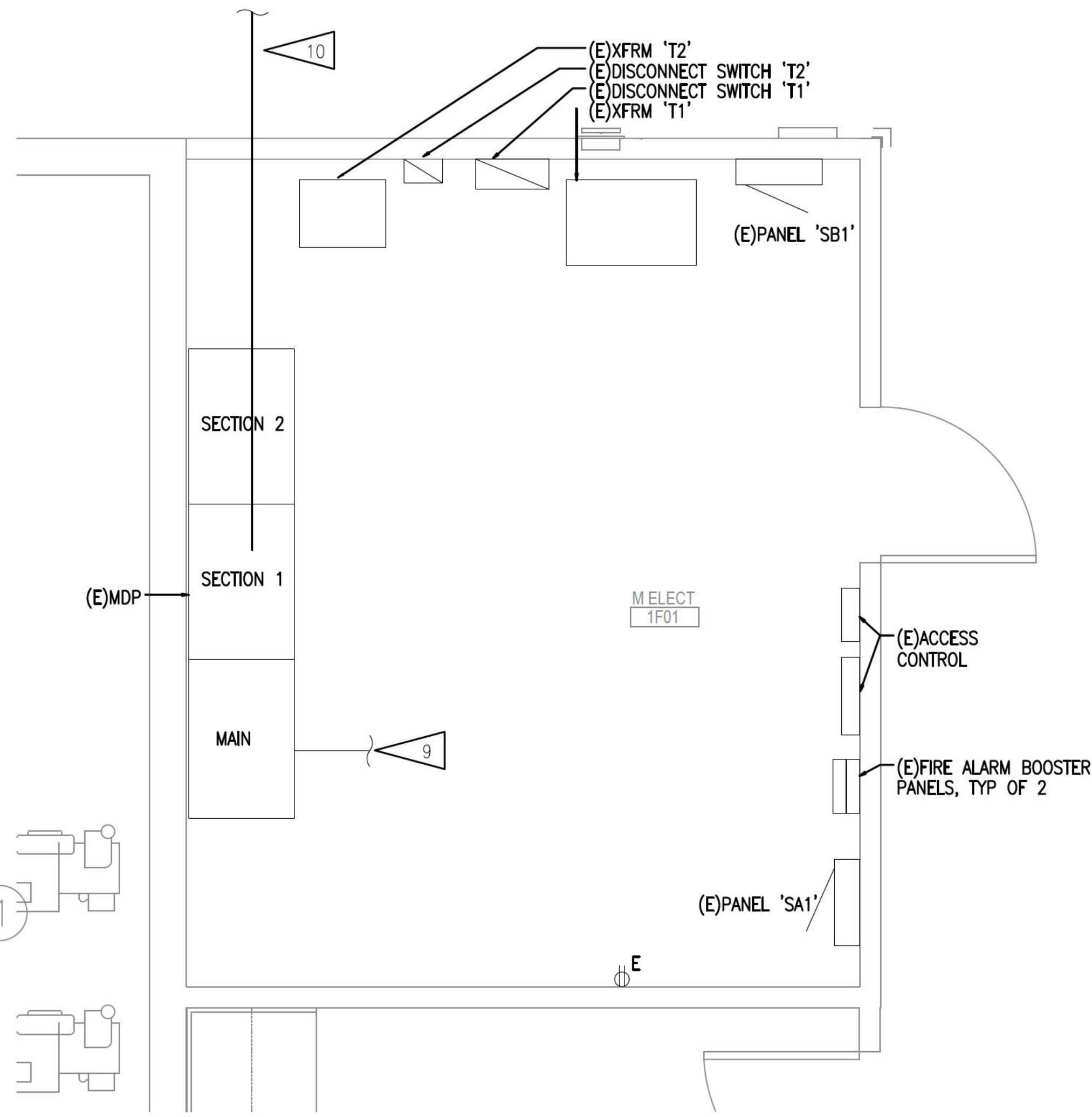


ENLARGED SPRINKLER ROOM

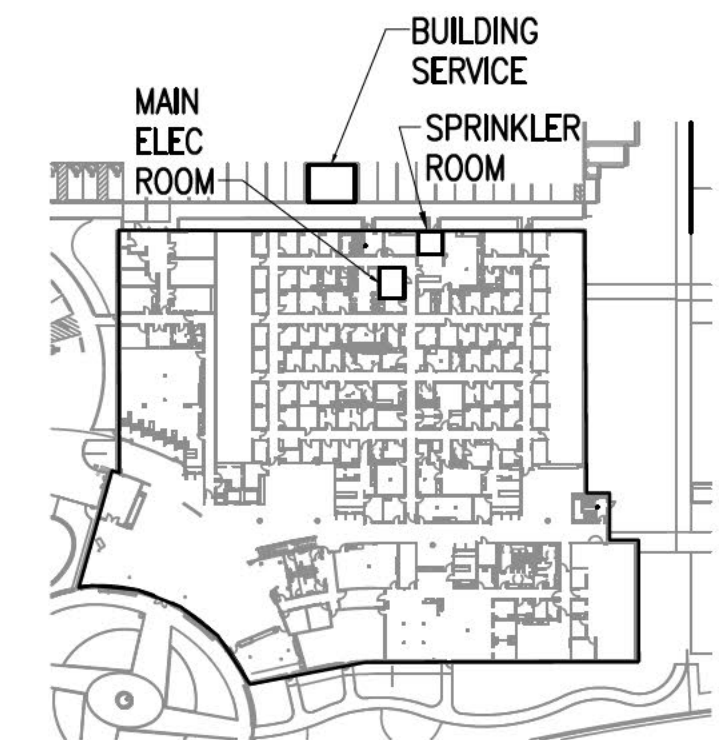
3 POWER REMODEL PLAN
1/4" = 1'-0"



1 ENLARGED SERVICE ENTRANCE POWER REMODEL PLAN
1/4" = 1'-0"



2 ENLARGED ELEC ROOM POWER REMODEL PLAN
1/2" = 1'-0"



KEY PLAN
1" = 100'

SOUTHCENTRAL FOUNDATION
VNPC NEW GENERATOR
PERMIT DOCUMENTS
1001 S. GOOSE BAY ROAD, WASILLA, AK 99654

| REVISION SCHEDULE | | |
|-------------------|-------------|------|
| # | DESCRIPTION | DATE |
| | | |

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|----------|-------------|
| JOB NO. | M2209.10 |
| DATE | 10/27/2023 |
| DRAWN | LKA |
| REVIEWED | XPT, DB, RW |

SHEET NAME
ENLARGED REMODEL PLANS

SHEET NO.
E202

HALF-SCALE AT 11X17



SOUTH CENTRAL FOUNDATION
 VNPCC NEW GENERATOR
 PERMIT DOCUMENTS
 1001 S. GOOSE BAY ROAD, WASILLA, AK 99654

| REVISION SCHEDULE | | |
|-------------------|-------------|------|
| # | DESCRIPTION | DATE |
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| JOB NO. | M2209.10 |
| DATE | 10/27/2023 |
| DRAWN | XPT |
| REVIEWED | XPT, DB, RW |

SHEET NAME
 POWER ONE-LINE DIAGRAM -
 REMODEL

SHEET NO.
E203

HALF-SCALE AT 1/16" = 1'

GENERAL NOTES:

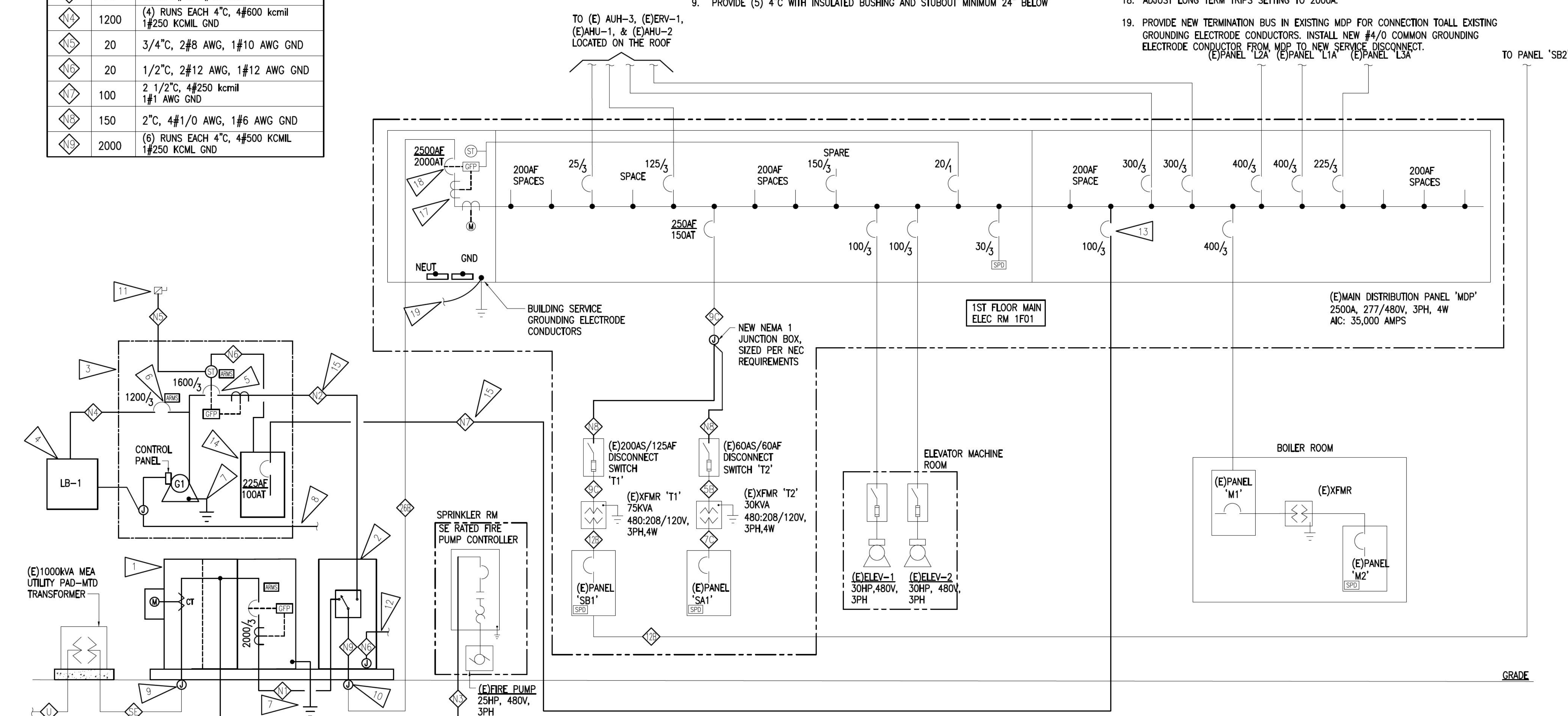
- COORDINATE WITH MEA UTILITY AFTER THE NEW SERVICE EQUIPMENT IS INSTALLED AND READY TO MAKE SWITCHOVERS AND CONNECTIONS.
- EXISTING ELECTRICAL EQUIPMENT AND ASSOCIATED FEEDERS ARE TO REMAIN UNLESS OTHERWISE NOTED.
- THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
- DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- SEE E001 FOR PROJECT PHASING SCHEDULE.
- SEE E001 FOR SHORT CIRCUIT CALCULATION SUMMARY.

SHEET NOTES:

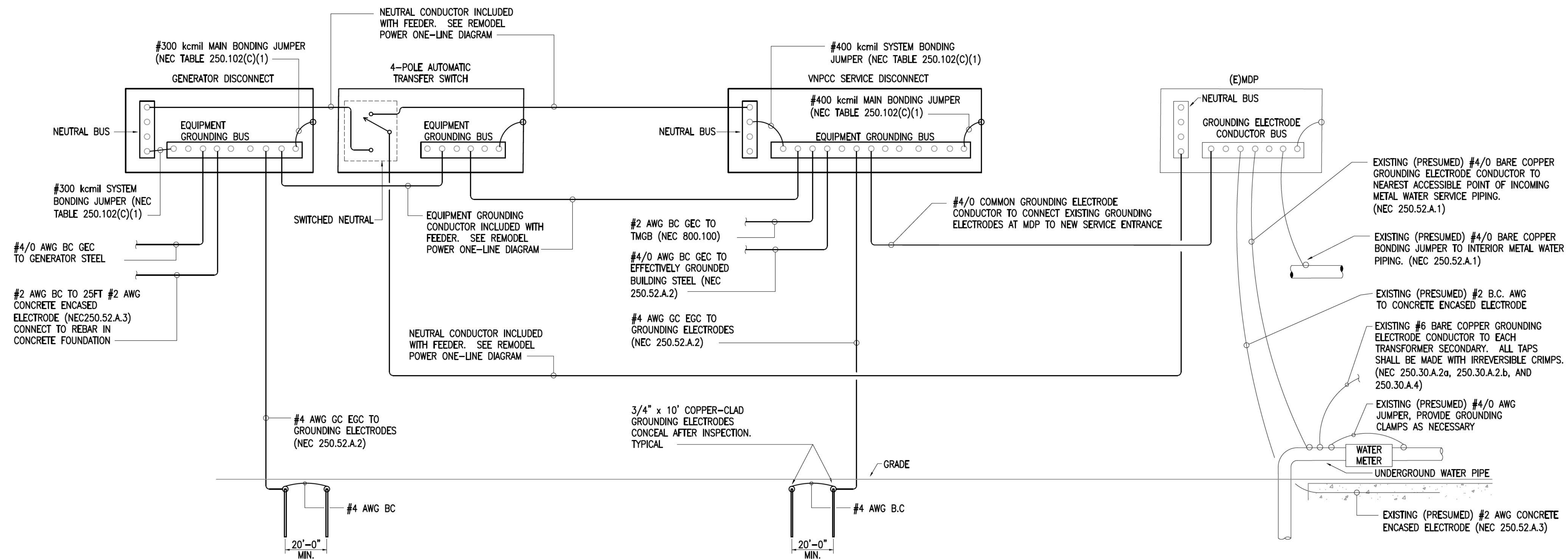
- PROVIDE AND INSTALL A NEW SERVICE EQUIPMENT, EUSERC, FIRE PUMP TAP SECTION, AND SE RATED DISCONNECT NEMA 3R PAD-MOUNT ENCLOSURE.
- PROVIDE AND INSTALL A NEW AUTOMATIC TRANSFER SWITCH 'ATS-1', 2000A, 4-POLE, NEMA 3R PAD-MOUNT ENCLOSURE.
- PROVIDE AND INSTALL A NEW 900KW/1125KVA, 277/480V, 3-PHASE, 4-WIRE DIESEL-FIRED GENERATOR (STANDBY).
- PROVIDE AND INSTALL A NEW LOAD BANK LB-1 900KW, 277/480V, 3-PHASE NEMA 3R PAD-MOUNT ENCLOSURE.
- PROVIDE 100% RATED GENERATOR MAIN CIRCUIT BREAKER WITH SHUNT TRIP, GROUND FAULT PROTECTION, AND ARC-FAULT REDUCTION MAINTENANCE SWITCH.
- PROVIDE 100% RATED LOAD BANK CIRCUIT BREAKER WITH ARC-FAULT REDUCTION MAINTENANCE SWITCH.
- SEE 1/E301 FOR SERVICE GROUNDING DETAIL.
- PROVIDE (2) 1" C WITH CONTROL/SIGNAL WIRES FOR CONNECTION BETWEEN THE GENERATOR CONTROL PANEL AND ATS, CONNECTION BETWEEN ATS AND LOAD BANK CONTROLLER, AND CONNECTION BETWEEN THE GENERATOR CONTROL PANEL AND GENERATOR ANNUNCIATOR PANEL. COORDINATE WITH GENERATOR MANUFACTURER FOR CONDUCTOR TYPE, SIZE, AND COUNT.
- PROVIDE (5) 4" C WITH INSULATED BUSHING AND STUBOUT MINIMUM 24" BELOW

- GRADE WITH LONG SWEEP ELBOW PER MEA REQUIREMENTS. INTERCEPT EXISTING UTILITY SERVICE LATERALS, EXTEND AND RECONNECT.
- INTERCEPT AND PROVIDE SPLICE AS NECESSARY FOR RECONNECTION EXISTING PANEL 'MDP' FEEDER.
- EXISTING GENERATOR REMOTE EMERGENCY SHUTDOWN.
- CONNECT TO THE EXISTING PANEL 'SA1', 20A, 1-POLE SPARE CIRCUIT #6 FOR ATS STRIP HEATER.
- PROVIDE A NEW CIRCUIT BREAKER IN AVAILABLE SPACE IN THE MDP FOR NEW PANEL 'G' CONNECTION. THE EXISTING MDP IS A SQ D TYPE QED SERIES 2 WITH A 2500A MAIN BREAKER. THE NEW CIRCUIT BREAKER SHALL BE COMPATIBLE WITH AND LISTED FOR USE IN THE EXISTING MDP AND SHALL HAVE A MINIMUM SHORT CIRCUIT AIC RATING TO MATCH THE LOWEST RATED EXISTING DEVICE IN THE MDP.
- PROVIDE A 120/208V 3-PHASE, 4-WIRE PANEL 'G' WITH A 225AF/100AT 3-POLE MAIN BREAKER WITHIN WALK-IN MODULE.
- CONDUCTORS HAVE BEEN UPSIZED TO ACCOMMODATE VOLTAGE DROP.
- PROVIDE NEW CONDUCTORS IN SIX EXISTING CONDUITS. ONE EXISTING CONDUIT TO REMAIN AS "SPARE".
- DISABLE EXISTING GROUND-FAULT PROTECTION EQUIPMENT.
- ADJUST LONG TERM TRIPS SETTING TO 2000A.
- PROVIDE NEW TERMINATION BUS IN EXISTING MDP FOR CONNECTION TO ALL EXISTING GROUNDING ELECTRODE CONDUCTORS. INSTALL NEW #4/0 COMMON GROUNDING ELECTRODE CONDUCTOR FROM MDP TO NEW SERVICE DISCONNECT.
(E)PANEL 'L2A' (E)PANEL 'L1A' (E)PANEL 'L3A'

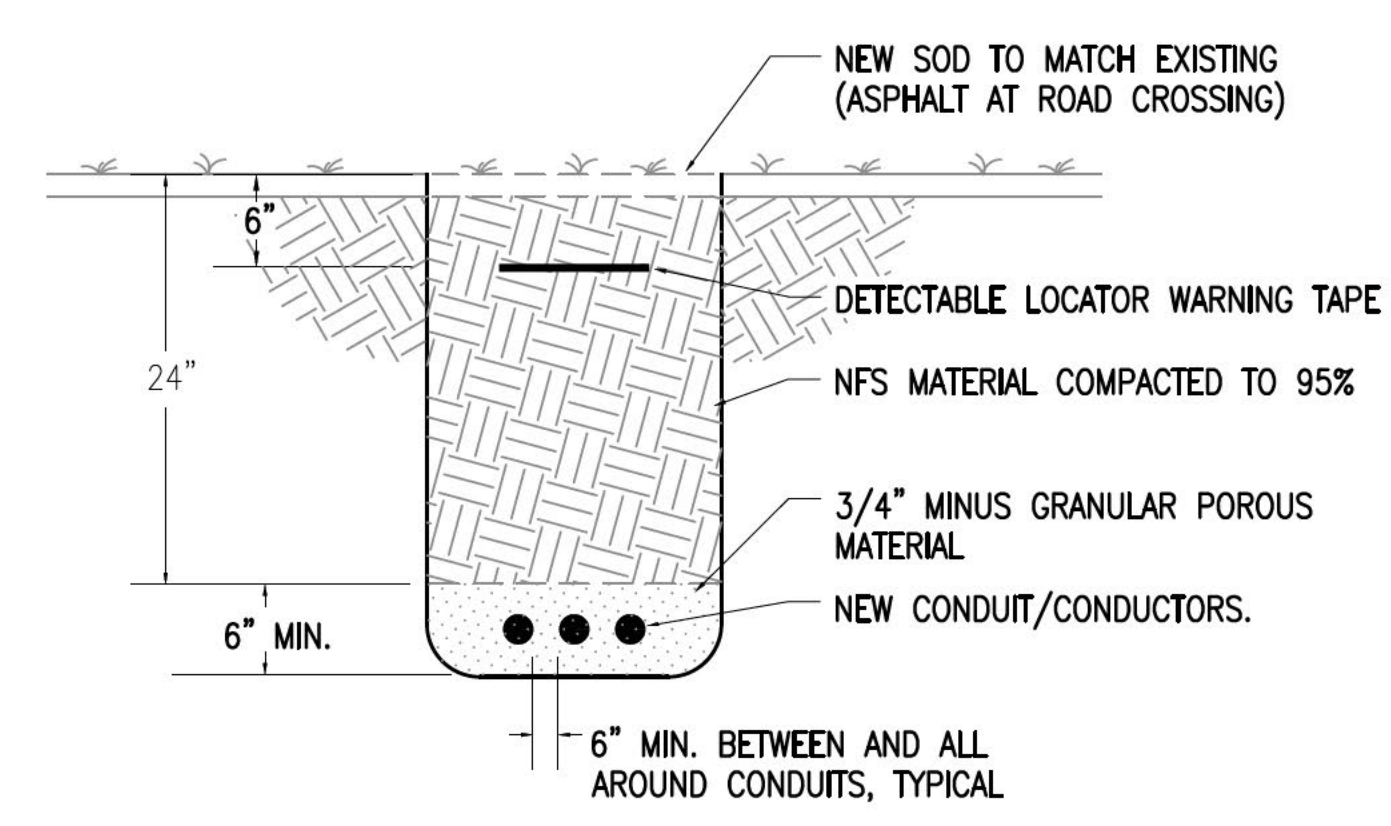
| FEEDER SCHEDULE (NEW CONDUCTORS SHALL BE ALUMINUM TYPE XHHW) | | |
|---|--------------|---|
| FEEDER NUMBER | BREAKER SIZE | CONDUIT AND WIRES SIZE |
| U | - | (E) UNDERGROUND PRIMARY CONNECTION BY MEA |
| SE | - | (E) UNDERGROUND SERVICE LATERALS BY MEA |
| 5B | 60 | (E) 1.25" EMT, 3#4 AWG, 1#10 AWG GND |
| 7C | 80-110 | (E) 1.5" EMT, 3#2 AWG, 1#8 AWG GND |
| 9C | 150 | (E) 2" EMT, 4#1/0 AWG, 1#6 AWG GND |
| 12B | 225 | (E) 2" EMT, 4#4/0 AWG, 1#4 AWG GND |
| 26B | 2500 | (E) (6) RUNS EACH 3.5" RMC, WITH NEW 4#500 KCMIL, 1#250 KCMIL GND |
| N1 | 2000 | (7) RUNS EACH 4"C, 4#600 KCMIL 1#400 KCMIL GND |
| N2 | 1600 | (6) RUNS EACH 4"C, 4#600 kcmil 1#350 kcmil GND |
| N3 | 70 | 1.25, 3#6, 1#10 GND |
| N4 | 1200 | (4) RUNS EACH 4"C, 4#600 kcmil 1#250 KCMIL GND |
| N5 | 20 | 3/4"C, 2#8 AWG, 1#10 AWG GND |
| N6 | 20 | 1/2"C, 2#12 AWG, 1#12 AWG GND |
| N7 | 100 | 2 1/2"C, 4#250 kcmil 1#1 AWG GND |
| N8 | 150 | 2"C, 4#1/0 AWG, 1#6 AWG GND |
| N9 | 2000 | (6) RUNS EACH 4"C, 4#500 KCMIL 1#250 KCMIL GND |



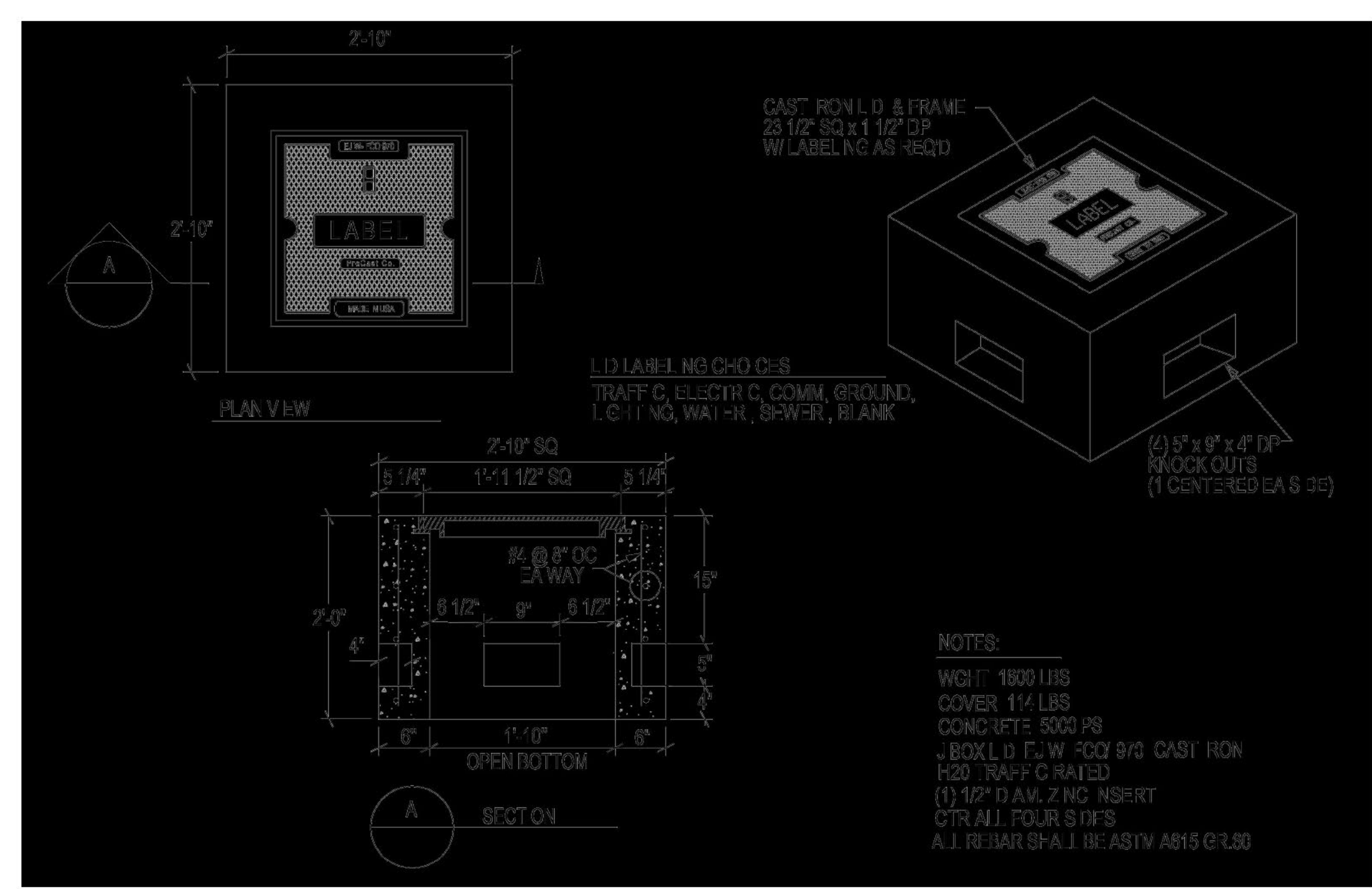
1 PARTIAL POWER ONE-LINE DIAGRAM - REMODEL PLAN
NOT TO SCALE



1 SERVICE GROUNDING DETAIL
NO SCALE



3 CONDUIT TRENCHING DETAIL
NO SCALE



2 IN-GRADE TYPE 2 JUNCTION BOX DETAIL
NO SCALE

SOUTHCENTRAL FOUNDATION
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| DRAWN | XPT |
| REVIEWED | XPT, DB, RW |

SHEET NAME
ELECTRICAL DETAILS

SHEET NO.
E301

HALF-SCALE AT 11X17