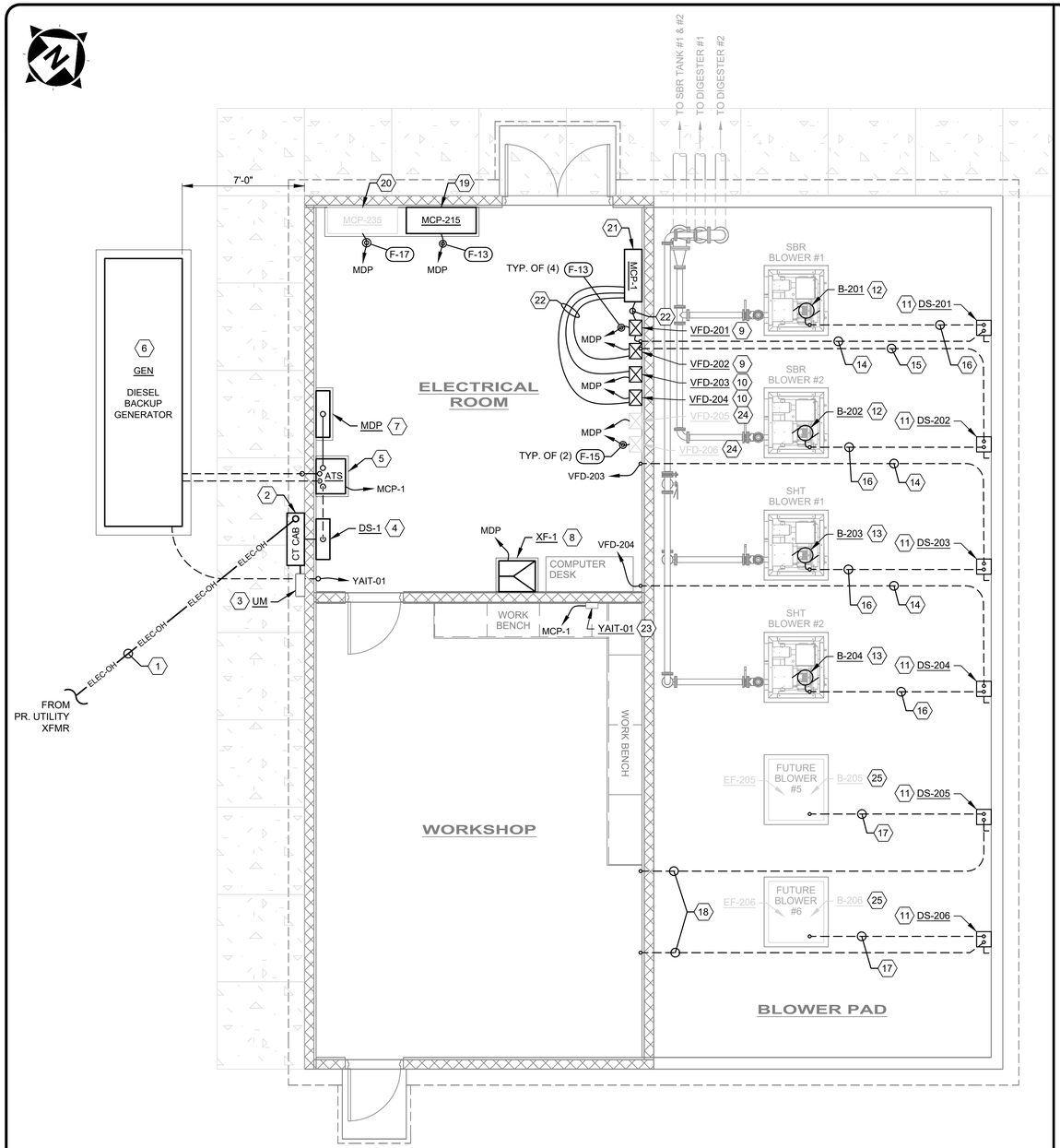


SERVICE BUILDING - POWER & INSTRUMENTATION PLAN

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

CODED NOTES - PROPOSED:

1. NEW OVERHEAD SERVICE CONDUCTORS SPANNING FROM EXISTING UTILITY POWER POLE TO PROVIDE 480V, 3ϕ, 400A TO NEW WWTP, VIA FEEDER "F-1" WITH AERIAL CONNECTED TO METERING CABINET.
2. CT CABINET & METER PER UTILITY, INSTALLED BY CONTRACTOR ON BUILDING EXTERIOR WITH CONDUIT AERIAL AND WEATHERHEAD TO SUPPORT OVERHEAD SERVICE CONDUCTORS.
3. METER BASE PER UTILITY, INSTALLED BY CONTRACTOR ON BUILDING EXTERIOR
4. SERVICE DISCONNECT SWITCH "DS-1", 400A, 3-POLE WITH SEPARATE NEUTRAL & GROUND BUSSES, NEMA 1 WALL-MOUNT ENCLOSURE
5. AUTOMATIC TRANSFER SWITCH "ATS", 400A, 3-POLE WITH SOLID NEUTRAL, NEMA 1 ENCLOSURE
6. DIESEL-FUELED BACKUP GENERATOR "GEN", 150 kW / 480V / 3ϕ / 4-W OUTPUT WITH 225A LCB & STATE-APPROVED FUEL TANK. CONTAINS CONVENIENCE DUPLEX GFCI RECEPTACLE AND VOLTAGE REGULATOR WITH MODBUS COMMUNICATION TO PLANT SCADA PLC MCP-1.
7. MAIN ELECTRICAL DISTRIBUTION PANEL "MDP", 480V, 3ϕ, 4-W, 400A BUS, 22 kAIC, NEMA 1 ENCLOSURE. SEE ONE-LINE DIAGRAM FOR CIRCUIT CAPACITY.
8. SERVICE BLDG LIGHTING DISTRIBUTION TRANSFORMER, 30 kVA, 3ϕ, 480-208Y/120V, NEMA 1 ENCLOSURE
9. SBR BLOWER VARIABLE FREQUENCY DRIVES, "VFD-201" & "VFD-202", 480V / 3ϕ / 60 Hz / 20 HP HEAVY DUTY, NEMA 12 WALL-MOUNT ENCLOSURE.
10. SHT BLOWER VARIABLE FREQUENCY DRIVES, "VFD-203" & "VFD-204", 480V / 3ϕ / 60 HZ / 15 HP HEAVY DUTY, NEMA 12 WALL-MOUNT ENCLOSURE
11. BLOWER DISCONNECT SWITCHES, "DS-201" - "DS-206", 60A, 3-POLE, NEMA 3R ENCLOSURE, INSTALLED ON STRUT FRAMES SECURED TO SLAB.
12. SBR BLOWERS, "B-201" & "B-202", 480V / 3ϕ / 60 HZ / 20 HP, WIRED VIA FEEDER "F-14"
13. SHT BLOWERS, "B-203" & "B-204", 480V / 3ϕ / 60 HZ / 15 HP, WIRED VIA FEEDER "F-14"
14. BLOWER CONDUITS, 2" SCHEDULE 40 PVC INSTALLED UNDER SLAB AND FILLED PER FEEDER SCHEDULE.
15. DISCONNECT DS-202 FEEDER CONDUIT, 2" SCHEDULE 40 PVC INSTALLED UNDER SLAB, TRANSITION TO ABOVEGROUND INSIDE ELECTRICAL ROOM AND TERMINATE IN VFD-202..
16. BLOWER MOTOR FEEDERS, INSTALL UNDER SLAB FROM RESPECTIVE DISCONNECTS, COORDINATE TRANSITION TO ABOVEGROUND BENEATH RESPECTIVE BLOWERS WITH MANFACTURER'S SHOP DRAWINGS AND REROUTE AS NEEDED.
17. FUTURE BLOWER MOTOR FEEDERS, INSTALL UNDER SLAB FROM RESPECTIVE DISCONNECTS, COORDINATE TRANSITION TO ABOVEGROUND BENEATH RESPECTIVE BLOWERS WITH FOUNDATION CONTRACTOR AND REROUTE AS NEEDED. CAP VERTICAL TRANSITIONS 6" AFF.
18. FUTURE BLOWER DISCONNECTS FEEDER CONDUIT, SCHEDULE 40 PVC, INSTALLED UNDER SLAB, TRANSITION TO ABOVEGROUND INSIDE WORKSHOP AND CAP AT 6" AFF.

GENERAL NOTES:

1. ALL MENTIONS OF "UTILITY" REFERENCE AEP OHIO AS THE SERVICING UTILITY OF RECORD. ALL SERVICE EQUIPMENT TO MEET THEIR STANDARDS IN ADDITION TO THE NEC AND LOCAL REGULATIONS.
2. ALL PROPOSED UNDERGROUND DUCT BANKS SHALL UTILIZE SCHEDULE-40 PVC CONDUIT, 1-1/2" MINIMUM TRADE SIZE, AND BE INSTALLED WITH SWEEPS OF A MINIMUM RADIUS OF 36".
3. ALL FLOOR-MOUNTED EQUIPMENT TO BE INSTALLED WITH 4" TALL CONCRETE HOUSEKEEPING PADS FORMED WITH 2" EXTENSION AND 1" CHAMFERED CORNERS.

BID SET

verdantas

NO	REVISION	DATE
1	ADDENDUM #3	9/30/2026

ISSUED FOR:	BIDDING
ISSUE DATE:	7/30/2026
SCALE:	AS NOTED
DESIGNED BY:	---
DRAWN BY:	---
CHECKED BY:	---

ADAMS COUNTY
NORTH ADAMS REGIONAL
WASTEWATER TREATMENT PLANT
WINCHESTER, OHIO
ADAMS COUNTY

ELECTRICAL - E SERIES

SERVICE BLDG - POWER & INSTR. PLAN

PROJECT NO.
200619

DISCIPLINE
ELECTRICAL

SHEET NAME
E-06

SHEET 69 OF 79