CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

VOLUME 4 OF 4: DRAWINGS
HAZEN CONTRACT NO. 32307-007
CHEROKEE COUNTY PROJECT NoS. PL20250000650 AND PR20250004291 (2)
NOVEMBER 2025

NOTICE:

THESE CONTRACT DOCUMENTS HAVE BEEN REVISED TO REFLECT CHANGES AND REVISIONS INCLUDED IN ALL ADDENDA AND MAY NOT REPRESENT THE ORIGINAL BID DOCUMENTS IN CONTENT. THESE REVISED DOCUMENTS ARE SOLELY FOR THE CONVENIENCE OF THE OWNER, ENGINEER, AND CONTRACTOR, AND ARE NOT WARRANTED TO BE COMPLETE AND ACCURATE IN ALL RESPECTS.

REFERENCE SHALL ALWAYS BE MADE TO THE ORIGINAL BID DOCUMENTS AND ADDENDA FOR RESOLUTION OF CONFLICTS AND CLARIFICATIONS.

FIRERMS No.

PROJECT SCOPE:

THIS PROJECT INVOLVES UPGRADING THE FITZGERALD CREEK WATER POLLUTION CONTROL PLANT, BY ADDING A THERMAL DRYER FACILITY WITH DEWATERED CAKE FEED STATION AND A FINAL EFFLUENT WATER PUMP STATION, ALL WITH VARIOUS TYPES OF TREATMENT EQUIPMENT.

THE PROPOSED USE AND DEVELOPMENT OF THE SUBJECT SITE SHALL COMPLY WITH THE REQUIREMENTS OF THE CHEROKEE COUNTY ZONING ORDINANCE.

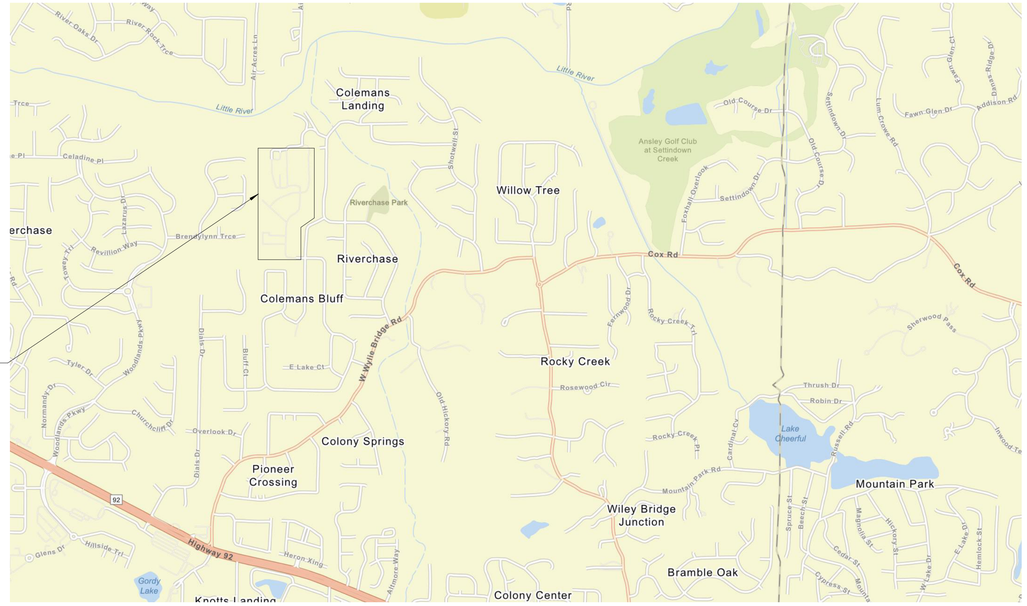
OWNER/DEVELOPER: CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
110 RAILROAD STREET
CANTON, GEORGIA 30114
(770) 479-1813 - COREY GHORLEY (3)
coreyghorley@cherokeewaterga.gov

24-HOUR CONTACT: (770) 479-1813 - COREY GHORLEY
GAS: ATLANTA GAS LIGHT: (877) 427-4321
ELECTRIC: COBB EMC: (678) 355-3464
TELEPHONE: AT&T: 611
UTILITY PROTECTION: 1-800-282-7411

PROJECT LOCATION: (2)
260 COLEMANS BLUFF DRIVE
WOODSTOCK, GA. 30188
LAT: 34.0981, LONG: 84.4476
TX ID# 15N29 001, 15N29 002
PROPERTY ID# 15-1051-0023, 15-1038-0012
TOTAL PROPERTY ACREAGE = 55.15 AC

CURRENT STATE MINIMUM CODES FOR CONSTRUCTION: (2) (3)

2018 International Building Code with current Georgia Amendments
2018 International Residential Code with current Georgia Amendments
2018 International Plumbing Code with current Georgia Amendments
2018 International Mechanical Code with current Georgia Amendments
2018 International Fuel Gas Code with current Georgia Amendments
2018 International Swimming Pool and Spa Code with current Georgia Amendments
2023 National Electrical Code with current Georgia Amendments
2015 International Energy Conservation Code with current Georgia Supplements and Amendments
2018 International Fire Code with current Georgia Amendments
2024 NFPA 101 – Life Safety Code with current Georgia Amendments
2022 NFPA 13 - Standard for the Installation of Sprinkler Systems with current Georgia Amendments
2022 NFPA 72 - National Fire Alarm and Signaling Code with current Georgia Amendments
2010 ADA, GA. Accessibility Code 120-3-20 Effective January 1, 2020, Access to and use of Public Facilities by Handicapped Persons



NOT TO SCALE
VICINITY/LOCATION MAP

REV	ISSUED FOR	DATE	BY
4	CONFORMED SET	03/2026	DS
3	ADDENDUM No. 2	12/2025	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

CONFORMED SET

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY DANIEL D. SEBUSCH P.E. No. 030101 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVENUE SUITE 520
ATLANTA, GEORGIA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

(3) SQUARE FOOTAGE OF ALL BUILDINGS BEING DEMOLISHED: 0
SQUARE FOOTAGE OF ALL BUILDINGS MODIFIED: 0
SQUARE FOOTAGE OF ALL BUILDINGS CONSTRUCTED: 6,611
ZONING CLASSIFICATION: SINGLE-FAMILY RESIDENTIAL (R-40)
SETBACKS: 35 FEET (FRONT), 15 FEET (SIDE), AND 30 FEET (REAR)

NOTE: SIDEWALKS SHALL BE 5 FEET WIDE AND CENTERED 5 FEET OFF THE BACK OF CURB UNLESS OTHERWISE DICTATED BY ZONING OR STREET TYPE.

NOTE: TEMPORARY GRASSING OR MULCHING IS REQUIRED EVERY (7) SEVEN DAYS.

GENERAL

DRAWING NO	SHEET NAME
00-G-001	COVER SHEET
00-G-002	INDEX OF DRAWINGS
00-G-003	LEGEND, SYMBOLS AND ABBREVIATIONS

CIVIL

DRAWING NO	SHEET NAME
00-C-001	NOTES, SYMBOLS, LEGEND AND ABBREVIATIONS
01-C-001	FACILITY INDEX, OVERALL PLAN AND STORMWATER NOTES
01-C-002	EXISTING CONDITIONS AND SURVEY INFORMATION
01-C-101	DEMOLITION PLAN STRUCTURE 27 AREA
01-C-102	DEMOLITION PLAN STRUCTURE 26 AREA
01-C-201	SITE LAYOUT AND PAVING PLAN STRUCTURE 27 AREA
01-C-202	SITE LAYOUT AND PAVING PLAN STRUCTURE 26 AREA
01-C-203	SITE LAYOUT AND PAVING PLAN ASPHALT MILL AND OVERLAY
01-C-301	GRADING PLAN STRUCTURE 27 AREA
01-C-302	GRADING PLAN STRUCTURE 26 AREA
01-C-401	OVERALL YARD PIPING PLAN
01-C-402	FE LINE 1 PLAN AND PROFILE
01-C-403	SD LINE 1 PLAN AND PROFILE
01-C-404	SD LINE 2 PLAN AND PROFILE
01-C-405	SS LINE 1 AND D LINE 1 PLAN AND PROFILE
01-C-406	PW LINE 1 PLAN AND PROFILE
01-C-407	YARD PIPING PLAN - FIRE PROTECTION
01-C-501	EROSION, SEDIMENTATION & POLLUTION CONTROL OVERALL PLAN
01-C-502	EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN PHASE I
01-C-503	EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN PHASE II
01-C-504	EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN PHASE III
01-C-505	EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN NOTES 1
01-C-506	EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN NOTES 2
01-C-507	EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN DETAILS
01-C-508	EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN DETAILS
01-C-601	CIVIL DETAILS
01-C-602	CIVIL DETAILS
01-C-603	CIVIL DETAILS
2 01-C-604	CIVIL DETAILS
01-C-605	CIVIL DETAILS
01-C-606	CIVIL DETAILS

MECHANICAL

DRAWING NO	SHEET NAME
THERMAL DRYER FACILITY	
26-M-001	OVERALL
26-M-002	DRYER PLAN
26-M-003	CAKE HANDLING ENLARGED PLAN
26-M-004	SECTION - 1
26-M-005	SECTION - 2
26-M-006	SECTION - 3
26-M-007	SECTION - 4
26-M-008	SECTION - 5
26-M-009	SECTION - 6
FINAL EFFLUENT WATER PUMP STATION	
27-M-001	TOP PLAN
27-M-002	BOTTOM PLAN
27-M-003	SECTIONS
PROCESS MECHANICAL STANDARD DETAILS	
99-MD-001	SHEET 1
99-MD-002	SHEET 2
99-MD-003	SHEET 3
99-MD-004	SHEET 4

STRUCTURAL

DRAWING NO	SHEET NAME
GENERAL	
00-S-001	STRUCTURAL NOTES - SHEET 1
00-S-002	STRUCTURAL NOTES - SHEET 2
THERMAL DRYER FACILITY	
26-S-001	BOTTOM PLAN
26-S-002	INTERMEDIATE PLAN
26-S-003	CAKE HANDLING PLAN
26-S-004	SECTIONS
26-S-005	SECTIONS
26-S-006	CAKE HANDLING SECTIONS
26-S-007	DETAILS
26-S-008	DETAILS
FINAL EFFLUENT WATER PUMP STATION	
27-S-001	PLANS AND SECTION
STRUCTURAL STANDARD DETAILS	
99-SD-001	SHEET 1
99-SD-002	SHEET 2
99-SD-003	SHEET 3
99-SD-004	SHEET 4

ARCHITECTURAL

DRAWING NO	SHEET NAME
GENERAL	
00-A-001	ROOM FINISH, DOORS AND LOUVERS SCHEDULES, AND GENERAL NOTES
00-A-002	DOORS AND LOUVERS DETAILS
00-A-003	SECTION DETAILS
00-A-004	SECTION DETAILS
00-A-005	PLAN DETAILS
00-A-006	ROOF DETAILS
00-A-007	DETAILS

ARCHITECTURAL

DRAWING NO	SHEET NAME
00-A-008	2-HR FIRESTOPPING DETAILS
THERMAL DRYER FACILITY	
26-A-000	PARTIAL SITE PLAN
26-A-001	LIFE SAFETY PLAN
26-A-002	BUILDING CODE SUMMARY
26-A-003	FLOOR PLAN
26-A-004	ROOF PLAN
26-A-005	ELEVATIONS
26-A-006	SECTIONS
26-A-007	SECTIONS
26-A-008	WALL SECTIONS

PLUMBING

DRAWING NO	SHEET NAME
GENERAL	
26-P-001	LEGEND, ABBREVIATIONS AND GENERAL NOTES
26-P-002	SCHEDULES
THERMAL DRYER FACILITY	
26-P-100	UNDERGROUND PLAN
26-P-101	TOP PLAN
26-P-102	SECTIONS
26-P-103	RISER DIAGRAMS
26-P-104	RISER DIAGRAMS
PLUMBING STANDARD DETAILS	
99-PD-001	DETAILS

HVAC

DRAWING NO	SHEET NAME
GENERAL	
26-H-001	LEGEND, ABBREVIATIONS AND GENERAL NOTES
26-H-002	SCHEDULES SHEET 1
26-H-003	SCHEDULES SHEET 2
THERMAL DRYER FACILITY	
26-H-100	AIRFLOW DIAGRAM
26-H-101	TOP PLAN
26-H-102	SECTIONS
HVAC STANDARD DETAILS	
99-HD-001	DETAILS
99-HD-002	DETAILS

FIRE PROTECTION

DRAWING NO	SHEET NAME
GENERAL	
26-FP-001	LEGEND, ABBREVIATIONS AND GENERAL NOTES
THERMAL DRYER FACILITY	
26-FP-100	TOP PLAN
26-FP-101	SECTIONS
FIRE PROTECTION STANDARD DETAILS	
99-FPD-001	DETAILS

ELECTRICAL

DRAWING NO	SHEET NAME
GENERAL	
00-E-001	LEGEND AND SYMBOLS
00-E-002	LIGHTING FIXTURE SCHEDULE, ABBREVIATIONS, AND GENERAL NOTES
SITE	
01-E-001	OVERALL PLAN
01-E-002	DEMOLITION PARTIAL PLAN
01-E-101	PARTIAL PLAN 1
01-E-102	PARTIAL PLAN 2
2 01-E-103	PARTIAL PLAN 3
01-E-104	PARTIAL PHOTOMETRIC PLAN 1
01-E-105	PARTIAL PHOTOMETRIC PLAN 2
01-E-200	EXISTING OVERALL SINGLE LINE DIAGRAM (1 OF 2)
01-E-201	EXISTING OVERALL SINGLE LINE DIAGRAM (2 OF 2)
01-E-202	PLANT FIBER OPTIC SYSTEM ARCHITECTURE BLOCK DIAGRAMS
01-E-203	DUCTBANK SCHEDULES
01-E-204	DUCTBANK SCHEDULES
COMPRESSOR BUILDING	
11-E-001	MCC-11 SINGLE LINE DIAGRAM AND ELEVATION
11-E-002	MCC-11 SINGLE LINE DIAGRAM AND ELEVATION
11-E-003	PLAN
11-E-004	LP-11 PANELBOARD SCHEDULE
DEWATERING BUILDING No. 1	
23-E-001	MCC-A SINGLE LINE DIAGRAM AND ELEVATION
23-E-002	PLAN
23-E-003	SCHEDULES AND BLOCK DIAGRAMS
DEWATERING BUILDING No. 2	
24-E-001	MCC-24 SINGLE LINE DIAGRAM AND ELEVATION
24-E-002	POWER PLAN

ELECTRICAL

DRAWING NO	SHEET NAME
24-E-003	SCHEDULES AND BLOCK DIAGRAMS
SOLIDS ELECTRICAL BUILDING	
25-E-001	SWGR-25 SINGLE LINE DIAGRAM AND ELEVATION
25-E-002	SWGR-25 SINGLE LINE DIAGRAM
25-E-003	LP-25 PANELBOARD SCHEDULE, POWER BLOCK DIAGRAM, AND CONDUIT AND WIRE SCHEDULE
25-E-004	PLAN
THERMAL DRYER FACILITY	
26-E-001	MCC-26 SINGLE LINE DIAGRAM AND ELEVATION
26-E-003	OVERALL PLAN
26-E-004	HAZARDOUS AREA CLASSIFICATION PLAN AND SECTIONS
26-E-005	ELECTRICAL ROOM ENLARGED PLAN
26-E-006	DRYER ENLARGED POWER PLAN
26-E-007	DRYER ENLARGED LIGHTING PLAN
26-E-008	DEWATERED CAKE HANDLING ENLARGED PLAN
26-E-023	PANELBOARD SCHEDULES
26-E-024	SCHEMATIC DIAGRAMS
26-E-025	POWER BLOCK DIAGRAMS
26-E-026	POWER BLOCK DIAGRAMS
26-E-027	CONTROL BLOCK DIAGRAMS
26-E-028	CONTROL BLOCK DIAGRAMS
26-E-029	CONTROL BLOCK DIAGRAMS
26-E-030	CONDUIT AND WIRE SCHEDULES
26-E-031	CONDUIT AND WIRE SCHEDULES
26-E-032	CONDUIT AND WIRE SCHEDULES
FINAL EFFLUENT WATER PUMP STATION	
27-E-001	PLANS AND SECTION
27-E-002	BLOCK DIAGRAMS AND CONDUIT AND WIRE SCHEDULES
ELECTRICAL STANDARD DETAILS	
99-ED-001	SHEET 1
99-ED-002	SHEET 2
99-ED-003	SHEET 3
99-ED-004	SHEET 4
99-ED-005	SHEET 5
99-ED-006	SHEET 6

INSTRUMENTATION

DRAWING NO	SHEET NAME
00-I-001	LEGEND AND GENERAL NOTES
00-I-002	SYSTEM ARCHITECTURE MODIFICATIONS
00-I-003	SYSTEM ARCHITECTURE THERMAL DRYER FACILITY
23-I-001	PROCESS AND INSTRUMENTATION DIAGRAM BELT FILTER PRESS 1/2 LOADOUT
24-I-001	PROCESS AND INSTRUMENTATION DIAGRAM BELT FILTER PRESS 3 LOADOUT
26-I-001	PROCESS AND INSTRUMENTATION DIAGRAM DEWATERED CAKE FEED HOPPERS AND PUMPS
26-I-002	PROCESS AND INSTRUMENTATION DIAGRAM THERMAL DRYER SYSTEM
26-I-003	PROCESS AND INSTRUMENTATION DIAGRAM DRIED PRODUCT CONVEYORS
26-I-004	PROCESS AND INSTRUMENTATION DIAGRAM ODOR CONTROL SYSTEMS
26-I-005	PROCESS AND INSTRUMENTATION DIAGRAM THERMAL FLUID SYSTEM
26-I-006	PROCESS AND INSTRUMENTATION DIAGRAM INSTRUMENT AIR AND NITROGEN SYSTEMS
26-I-007	PROCESS AND INSTRUMENTATION DIAGRAM DRIED PRODUCT LOADOUT
26-I-008	PROCESS AND INSTRUMENTATION DIAGRAM COMBUSTIBLE GAS AND VENTILATION
27-I-001	PROCESS AND INSTRUMENTATION DIAGRAM FINAL EFFLUENT WATER PUMP STATION
99-I-001	STANDARD DETAILS

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: E. MENZEL
DRAWN BY: E. MENZEL
CHECKED BY: D. HAAS
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY DANIEL D. SEBUSCH, P.E. No. 030101 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

GENERAL
INDEX OF DRAWINGS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 00-G-002

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-GENRL.rvt
2/27/2026 11:59:26 AM

ABBREVIATIONS

GENERAL

A/C	AIR CONDITIONER
AB	ANCHOR BOLT
AC	ASBESTOS CEMENT
ACP	AIR COMPRESSOR
ACT-MR	ACOUSTICAL CEILING TILE, MOISTURE RESISTANT
AD	AREA DRAIN
ADH	ADHESIVE
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AGGR	AGGREGATE
AH	AIR HEATER
AHU	AIR HANDLING UNIT
AL, ALUM	ALUMINUM
ALLOW	ALLOWANCE/ALLOWABLE
ALT	ALTERNATE
APPROX	APPROXIMATE
AR	AIR RECEIVER
ARCH	ARCHITECTURAL
ASB	ASBESTOS
ASPH	ASPHALT
AT	ASPHALT TILE
ATF	AIR TERMINAL UNIT (FAN POWERED)
ATS	AUTOMATIC TRANSFER SWITCH
ATU	AIR TERMINAL UNIT
B	BORING
BC	BOILER CHEMICALS
BCR	BCR ENVIRONMENTAL
BD	BOARD
BDD	BACKDRAFT DAMPER
BF	BLIND FLANGE
BFE	BOTTOM OF FITTING ELEV
BH	BASEBOARD HEATER
BITUM	BITUMINOUS
BL	BUILDING LINE
BLDG	BUILDING
BLK	BLOCK
BLW	BLOWER
BM	BENCH MARK
BOC	BACK OF CURB
BOM	BOTTOM OF MASONRY
BOT	BOTTOM
BRC	BRIDGE CRANE
BRG	BEARING
BRK	BRICK
BRL	BUILDING RESTRICTION LINE
BRZ	BRONZE
BT	BOLT
CB	CATCH BASIN
CBD	COUNTERBALANCE BACKDRAFT DAMPER
CC	COOLING COIL
C/C	CENTER TO CENTER
CCP	CIRCULATING PUMP
CD	CONTROL DAMPER
CDWP	CONDENSER WATER PUMP
CE	CONSTRUCTION EASEMENT
CEM	CEMENT
CER	CERAMIC
CF	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CL	CENTERLINE
CLKG	CAULKING
CPLG	COUPLING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
CON	CONCENTRIC
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS, CONTINUATION
CONTR	CONTRACTOR
CORP	CORPORATION
CP	CONCRETE PLANK OR CONTROL PANEL, OR CONTROL POINT
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY
CRS	COURSE
CSP	CHEMICAL SERVICE PUMP
CSSP	CHEMICAL SERVICE SUMP PUMP
CST	CHEMICAL STORAGE TANK
CT	CERAMIC TILE
CTJ	CONTROL JOINT
CU	COPPER OR CONDENSING UNIT
CY	CUBIC YARD
DAD	DESICCANT AIR DRYER
DD	DESICCANT DRYER
DEC	DECANT
DEH	DEHUMIDIFIER
DEM	DEMISTER
DET	DETAIL
DF	DUCT FAN OR DRINKING FOUNTAIN
DIA OR Ø	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISC	DISCONNECT
DISCH	DISCHARGE
DIST	DISTRIBUTION
DJ	DISMANTLING JOINT
DKC	DOOR OPERATOR (ELECTRIC)
DL	DEAD LOAD
DN	DOWN
DOZ	DOZEN
DP	DISTRIBUTION PANEL
DS	DISCONNECT SWITCH
D/S	DOWNSTREAM
DT	DAY TANK
DWG(S)	DRAWING(S)
DWL	DOWEL
EA	EACH
ECC	ECCENTRIC
ECH	ELECTRIC CABINET HEATER
ED	EQUIPMENT DRAIN
EDH	ELECTRIC DUCT HEATER
EDP	EMERGENCY DISTRIBUTION PANEL
EE	EACH END
EEW	EMERGENCY EYE WASH
EF	EACH FACE OR EXHAUST FAN
EFF	EFFLUENT
EHH	ELECTRICAL HANDHOLE
EL	ELEVATION
ELEC	ELECTRICAL
ELP	EMERGENCY LIGHTING PANEL
EMH	ELECTRICAL MANHOLE
ENGR	ENGINEER
ENT	ENTRANCE
EOG	EDGE OF GRAVEL
EOP	EDGE OF PAVEMENT
EPP	EMERGENCY POWER PANEL
EPX	EPOXY
EQ	EQUAL
EQPT	EQUIPMENT
ERH	ELECTRIC WIRE ROPE HOIST
ES	EMERGENCY SHOWER OR EMERGENCY SWITCH
ES/EEW	EMERGENCY SHOWER AND EYEWASH
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST/EX	EXISTING
EXC	EXCAVATE
EXH	EXHAUST
EXP	EXPANSION
EXP JT	EXPANSION JOINT
EXT	EXTERIOR
F	FAN
FAB	FABRICATE
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FC	FLUSHING CONNECTION
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER/FLOW ELEMENT
FEF	FUME EXHAUST FAN
FH	FIRE HYDRANT
FIG	FIGURE
FIN	FINISH
FIX	FIXTURE
FL	FLOOR
FLEX	FLEXIBLE
FLG	FLANGE
FLXC	FLEXIBLE CONNECTION
FM	FLOW METER
FOC	FIBER OPTICS CABLE
FPRF	FIREPROOF
FS	FLOW SWITCH
FSD	FIRE/SMOKE DAMPER
FT	FEET OR FIN TUBE HEATER
FTG	FITTING
FURR	FURRING OR FURRED
G	GATE
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GIH	GAS INFRARED HEATER
GPM	GALLONS PER MINUTE
GR	GRADE
GRTG	GRATING
GUH	GAS UNIT HEATER
GW	GUY WIRE
GWH	GAS WATER HEATER
GYP	GYPSUM
HB	HOSE BIBB
HC	HEATING COIL
HCP	HORIZONTAL END SUCTION CENTRIFUGAL PUMP
HDW	HARDWARE
HE	HEAT EXCHANGER
HEX	HEXAGONAL
HFCA	HARNESSED FLANGED COUPLING ADAPTER
HHRG	HYBRID HIGH RESISTANCE GROUNDING
HORIZ	HORIZONTAL
HP	HORSEPOWER OR HEAT PUMP
HPT	HIGH POINT
HRU	HEAT RECOVERY UNIT
HRG	HIGH RESISTANCE GROUNDING
HSCP	HORIZONTAL SPLIT CASE PUMP
HUM	HUMIDIFIER
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HW	HEADWALL
HWB	HEATING WATER BOILER
HWCH	HEATING WATER CABINET HEATER
HWL	HIGH WATER LEVEL
HWP	HEATING WATER PUMP
HWY	HIGHWAY
HYD	HYDRAULIC
I	IRON
I&C	INSTRUMENTATION AND CONTROLS
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH
INCL	INCLUDED
INF	INFLUENT
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
IPP	INSTRUMENT POWER PANEL
JB	JUNCTION BOX
JCT	JUNCTION
JT	JOINT
L	LENGTH/ANGLE
LA	LINE AHEAD
LAB	LABORATORY
LAM	LAMINATED
LAT	LATERAL
LAV	LAVATORY
LB	POUND OR LINE BACK
LD	COMBINATION LOUVER/DAMPER
LF	LINEAR FEET
LG	LONG
LI	LEVEL INDICATOR
LIP	LIGHTING INDICATING PANEL
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LIGHTING PANEL
LPT	LOW POINT
LRG	LOW RESISTANCE GROUNDING
LS	LEVEL SWITCH
LTG	LIGHTING
LVR	LOUVER
LWL	LOW WATER LEVEL
MAINT	MAINTENANCE
MANUF	MANUFACTURER
MATL	MATERIAL
MAU	MAKE UP AIR HANDLING UNIT
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MCLU	MOTOR CONTROL LINE-UP
MECH	MECHANICAL
MET	METAL
MFR	MANUFACTURER
MFM	MAGNETIC FLOW METER
MG	MILLION GALLONS
MGD	MILLION GALLONS PER DAY
MJ	MECHANICAL JOINT
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLDG	MOLDING
MO	MASONRY OPENING
MOD	MODIFY OR MODIFIED
MON	MONUMENT
MOPO	MAINTENANCE OF PLANT OPERATIONS
MOV	MOTOR OPERATED VALVE
MTD	MOUNTED
MTG	MOUNTING
MULT	MULTIPLE
N	NORTH
NA	NOT APPLICABLE
NAD '83	NORTH AMERICAN DATUM OF 1983
NAVD '88	NORTH AMERICAN VERTICAL DATUM OF 1988
NC	NORMALLY CLOSED
NF	NEAR FACE
NGVD '29	NATIONAL GEODETIC VERTICAL DATUM OF 1929
NIC	NOT IN CONTRACT
No.	NUMBER
NO	NORMALLY OPEN
NOM	NOMINAL
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER OR OVERHEAD DOOR
OF	OUTSIDE FACE
OHE	OVERHEAD ELECTRIC
OML	OIL MIST LUBRICATOR
OPER	OPERATOR
OPNG	OPENING
OPP	OPPOSITE
ORF	OIL REMOVAL FILTER
ORIG	ORIGINAL
P&ID	PROCESS AND INSTRUMENTAION DIAGRAM
PAC	PACKAGED AIR CONDITIONING UNIT
PAR	PARALLEL
PC	POINT OF CURVE OR PIECE OR PERSONAL COMPUTER
PCC	POINT OF COMPOUND CURVE
PCF	POUNDS PER CUBIC FOOT
PE	PLAIN END
PERF	PERFORATED
PERP	PERPENDICULAR
PF	PROPELLER FAN
PI	POINT OF INTERSECTION
PL	PROPERTY LINE OR PLATE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PLMB	PLUMBING
PNL	PANEL
PP	POWER PANEL OR POWER POLE
PREFAB	PREFABRICATED
PROP	PROPOSED
PRVN	POWER ROOF VENTILATOR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSU	POWER SUPPLY UNIT
PVMT	PAVEMENT
QTY	QUANTITY
RAD	RADIUS
RECIR	RECIRCULATION
RECT	RECTANGULAR
RED	REDUCER
REF	REFERENCE
REG	REGISTER
REINF	REINFORCING
REM	REMOVE
REQD	REQUIRED
REST	RESTRAINED
REV	REVISE
RFD	REFRIGERANT AIR DRYER
RH	ROOF HOOD
RIO	REMOTE INPUT/OUTPUT
RJ	RESTRAINED JOINT
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE ASSEMBLY
RR	RAILROAD
RT	RIGHT
RTU	REMOTE TERMINAL UNIT
R/W OR ROW	RIGHT OF WAY
S	SOUTH OR SLOPE
SB	SOIL BORING
SBL	SURVEY BASELINE
SBMP	SODIUM BISULFITE METERING PUMP
SCH	SCHEDULE
SCS	SLUICE GATE
SCR	SELECTIVE CATALYTIC REDUCTION
SDG	SLIDE GATE
SECT	SECTION
SERV	SERVICE
SF	SQUARE FEET
SG	SWITCH GEAR
SHT(S)	SHEET(S)
SI	SQUARE INCH
SIL	SILENCER
SIM	SIMILAR
SMH	STORM MANHOLE
SP	SUMP PUMP
SPEC	SPECIFICATION
SQ	SQUARE
SSP	SUBMERSIBLE SUMP PUMP
SST	STAINLESS STEEL
STA	STATION OR STACK
STD	STANDARD
STG	STORAGE OR STOP GATE (LOG)
STIR	STIRRUP
STL	STEEL
STRU	STRUCTURAL
SUB	SUBSTITUTE
SUCT	SUCTION
SUPT	SUPERINTENDENT
SUR	SURFACE
SUSP	SUSPENDED
SWD	SIDE WATER DEPTH
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TAN	TANGENT
TBA	TO BE ABANDONED
TBCN	TRAVELING BRIDGE CRANE
TBM	TEMPORARY BENCH MARK
TC	TOP OF CURB
TCP	TEMPERATURE CONTROL PANEL
TDF	THERMAL DRYER FACILITY
TDH	TOTAL DYNAMIC HEAD
TECH	TECHNICAL
TEL	TELEPHONE
TEMP	TEMPERATURE
TG	TEMPERED GLASS
THD	THREADED
THK	THICK
THRU	THROUGH
TOC	TOP OF CONCRETE
TOD	TOP OF DECK
TOF	TOP OF FOOTING
TOM	TOP OF MASONRY/MANHOLE
TOS	TOP OF SLAB/ TOP OF STEEL
TOW	TOP OF WALL
TOL	TOLERANCE
TYP	TYPICAL
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UGG	UNDERGROUND GAS
UH	UNIT HEATER
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
U/S	UPSTREAM
UTIL	UTILITY
VAC	VACUUM
VACP	VACUUM PUMP
VAP	VAPORIZER
VAV	VARIABLE AIR VOLUME UNIT
VCD	VOLUME CONTROL DAMPER
VEL	VELOCITY
VENT	VENTILATING OR VENTILATION
VERT	VERTICAL
VF	VANE AXIAL FAN
VOL	VOLUME
VTR	VENT THROUGH ROOF
W	WEST OR WIDTH
W/	WITH
WF	WALL FAN
WG	WIRE GLASS
WH	WALL HYDRANT OR WALL HEATER
WL	WATER LEVEL
WM	WATER METER
W/O	WITHOUT
WP	WATERPROOF
WPFG	WATER PROOFING
WSE	WATER SURFACE ELEVATION
WSP	WEATHER STRIP
WT	WEIGHT
WV	WATER VALVE
WWF	WELDED WIRE FABRIC
WWTP	WASTEWATER TREATMENT PLANT
XFMR	TRANSFORMER
XMH	EXISTING MANHOLE
YH	YARD HYDRANT
YI	YARD INLET
YD	YARD
YR	YEAR

VALVE DESIGNATIONS

AAV	AIR ADMITTANCE VALVE
ARV	AIR RELIEF VALVE
BFPV	BACKFLOW PREVENTION VALVE
BFV-CP	CPVC BUTTERFLY VALVE
BFV-CS	CARBON STEEL BUTTERFLY VALVE
BFV-DI	CAST OR DUCTILE IRON BUTTERFLY VALVE
BFV-P	PVC BUTTERFLY VALVE
BFV-SS	STAINLESS STEEL BUTTERFLY VALVE
BLV-2S	2-PIECE STAINLESS STEEL BALL VALVE
BLV-3S	3-PIECE STAINLESS STEEL BALL VALVE
BLV-C	CPVC BALL VALVE
BLV-MS	METAL SEATED BALL VALVE
BLV-P	PVC BALL VALVE
CRV	COMBINATION AIR/VACUUM RELIEVE VALVE
CV-BFC	CPVC BUTTERFLY CHECK VALVE
CV-BFP	PVC BUTTERFLY CHECK VALVE
CV-BS	BRONZE SWING CHECK VALVE
CV-CB	CPVC BALL CHECK VALVE
CV-CS	CPVC SWING CHECK VALVE
CV-DB	DUCKBILL CHECK VALVE
CV-DD	DOUBLE DOOR CHECK VALVE
CV-DI	DUCTILE IRON CHECK VALVE
CV-PB	PVC BALL CHECK VALVE
CV-PS	PVC SWING CHECK VALVE
CV-RF	RUBBER FLAPPER CHECK VALVE
CV-SB	STEEL BALL CHECK VALVE
CV-TD	TILTING DISC CHECK VALVE
DV-C	CPVC DIAPHRAGM VALVE
DV-P	PVC DIAPHRAGM VALVE
GLV	GLOBE VALVE
GV-DD	DOUBLE DISK GATE VALVE
GV-HK	HIGH PERFORMANCE KNIFE GATE VALVE
GV-MS	METAL SEATED GATE VALVE
GV-RD	ROTATING DISC GATE VALVE
GV-RW	RESILIENT WEDGE GATE VALVE
GV-SK	STANDARD KNIFE GATE VALVE
MDV	MUD VALVE
NV	NEEDLE VALVE
PNV-B	BONNETED PINCH VALVE
PNV-O	OPEN PINCH VALVE
PV-FP	FULL PORT PLUG VALVE
PV-SP	STANDARD PORT PLUG VALVE
PRGV	PRESSURE REGULATING VALVE
PRV	PRESSURE RELIEF VALVE
SRV	SURGE RELIEF VALVE
SV	SOLENOID VALVE
TV	TELESCOPING VALVE

PIPING MATERIALS

CIP	CAST IRON PIPE
CMP	CORRUGATED METAL PIPE
CPP	CORRUGATED PLASTIC PIPE
CU	COPPER PIPE
DIP	DUCTILE IRON PIPE
ERCP	ELLIPTICAL REINFORCED CONCRETE PIPE
FRP	FIBERGLASS REINFORCED PIPE
GSP	GALVANIZED STEEL PIPE
HDPE	HIGH DENSITY POLYETHYLENE
PE LINING	POLYETHYLENE LINING
RCP	REINFORCED CONCRETE PIPE
SSP	STAINLESS STEEL PIPE
IPS	IRON PIPE SIZE
PVC	POLYVINYLCHLORIDE
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
VCP	VITRIFIED CLAY PIPE

PROCESS PIPING

CA	COMPRESSED AIR
DWS	DEWATERED SLUDGE CAKE
FA	FOUL AIR
FE	FINAL EFFLUENT
N	NITROGEN
NG	NATURAL GAS
NPW	NON-POTABLE WATER
PDG	PROCESS DRAIN GRAVITY
PDP	PROCESS DRAIN PRESSURE
PW	POTABLE WATER
RD	ROOF DRAIN
SD	STORM DRAIN
SS	SANITARY SEWER GRAVITY
SW	SEAL WATER
TFS	THERMAL FLUID SUPPLY
TFR	THERMAL FLUID RETURN
V	VENT

LEGEND

SYMBOLS

BALL VALVE
BALL CHECK VALVE
BUTTERFLY VALVE
CHECK VALVE
SWING CHECK VALVE
CONTROL VALVE
DIAPHRAGM VALVE
FLUSHING CONNECTION
GATE VALVE
GLOBE VALVE
MOTOR OPERATED VALVE (M)
NEEDLE VALVE
PINCH VALVE
PLUG VALVE
PRESSURE GAUGE WITH/WITHOUT DIAPHRAGM SEAL
PRESSURE REDUCING VALVE
PRESSURE RELIEF VALVE
PRESSURE RELIEF/VACUUM BREAKER VALVE (VB)
QUICK CONNECT COUPLING
SOLENOID VALVE (S)
STRAINER
THREE WAY VALVE
UNION
HOSE BIBB

REDUCER
WALL PENETRATION
FLEXIBLE HOSE
SINGLE LINE DRAWINGS
DOUBLE LINE DRAWINGS
MECHANICAL COUPLING
WELDED JOINT
FLANGED JOINT
MECHANICAL, PUSH-ON OR RESTRAINED JOINT
HARNESSED FLANGED ADAPTER
SLEEVE TYPE COUPLING
HARNESSED SLEEVE TYPE COUPLING
DISMANTLING JOINT
EXPANSION JOINT
FE FIRE EXTINGUISHER
ES/EEW
PARTITION TYPE
DOOR SCHEDULE
L# LOUVER TYPE
FIXED TYPE PIPE SUPPORT
SLIDING TYPE PIPE SUPPORT

MATERIALS

GRADE OR EARTH
ASPHALT PAVING
CAST IRON
STEEL
INSULATION
WATER SURFACE
GRATING
CHECKERED PLATE
GLASS
WOOD BLOCKING
CONCRETE FILL OR GROUT
CONCRETE MASONRY UNIT
BRICK
GRAVEL
CONCRETE

SECTION AND DETAIL KEYING

DRAWINGS ARE CROSS REFERENCED IN THE FOLLOWING METHOD:

(A) A SECTION CUT ON DRAWING A3 IS IDENTIFIED AS FOLLOWS:

A — SECTION LETTER
A6 — DRAWING WHERE SECTION IS SHOWN

(B) THE SECTION SHOWN ON DRAWING A6 IS IDENTIFIED AS FOLLOWS:

A — SECTION LETTER
A3 — DRAWING FROM WHERE SECTION WAS TAKEN

DETAILS ARE CROSS REFERENCED IN A SIMILAR MANNER, EXCEPT DETAILS ARE IDENTIFIED BY A SQUARE WITH A NUMBER IN THE UPPER HALF.

STANDARD DETAILS ARE REFERENCED BY A UNIQUE SEVEN DIGIT NUMBER AND ARE SHOWN ON THE CONTRACT DRAWINGS BY ONE OF TWO METHODS:

M-40-0100 → REFERENCED ITEM

OR:

SEE M-40-0100 → REFERENCED ITEM

LINETYPES

PROPOSED ITEMS
EXISTING ITEMS
HIDDEN ITEMS
DEMOLITION ITEMS
CENTER LINE
MATCH LINE

ROOM NAME LABEL

ROOM NAME
###
ROOM NAME
ROOM NUMBER

ELEVATION CALL OUT

DIRECTION OF VIEW
/ A###
ELEVATION #
DRAWING #

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0 — 1/2" — 1")

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: E. MENZEL
DRAWN BY: E. MENZEL
CHECKED BY: D. HAAS

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY DANIEL D. SEBUSCH, P.E. No. 030101 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT

Hazen
HAZEN AND SAWYER
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ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

GENERAL
LEGEND, SYMBOLS AND ABBREVIATIONS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 00-G-003

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-GENRL.rvt
2/27/2026 11:59:26 AM

NOTES:

1. LOCATION AND ELEVATION OF ALL UTILITIES ARE APPROXIMATE BASED ON RECORD DRAWINGS AND SURVEY INFORMATION. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LOCATION, SIZES, AND ELEVATIONS OF ALL UTILITIES.
2. ALL UTILITIES ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR OR SUBCONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER GEORGIA 811 (TOLL FREE PHONE NO. 1-800-282-7411) FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. THIS NUMBER WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF EXISTING BELOW GROUND UTILITIES (I.E. CABLES, ELECTRIC WIRES, GAS & WATER LINES). WHEN CONTACTING THE INDIANA 811 CALL CENTER, PLEASE STATE THE WORK TO BE DONE IS FOR A PROPOSED SEWER OR DRAINAGE FACILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH ALL UTILITY REQUIREMENTS SET FORTH ON THE PLANS AND IN THE TECHNICAL SPECIFICATIONS & SPECIAL PROVISIONS.
3. CONTRACTOR SHALL NOT DISRUPT ANY UTILITY SERVICE WITHOUT SCHEDULING AND OBTAINING APPROVAL FROM THE OWNER.
4. ALL PIPING SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH SPECIFICATIONS. CONTRACTOR TO REFER TO SECTION 40 06 20 FOR PIPE MATERIALS AND TESTING PRESSURES.
5. STORAGE OF MATERIALS AND EQUIPMENT IN THE FLOODPLAIN SHALL NOT BE ALLOWED. ALL DEBRIS AND EXCESS MATERIAL SHALL BE REMOVED FOR DISPOSAL OUTSIDE THE BASE FLOODPLAIN.
6. COPIES OF ALL PERMITS SHALL BE MAINTAINED ONSITE AT ALL TIMES BY THE CONTRACTOR.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL PERMITS, THE COST OF WHICH SHALL BE INCIDENTAL TO THE CONTRACT. ANY PENALTIES OR FINES FOR PERMIT NON-COMPLIANCE SHALL BE BORNE SOLELY BY THE CONTRACTOR.
8. FINAL ACCEPTANCE OF PROJECT WILL NOT BE COMPLETE UNTIL ALL PERMITS ARE RELEASED FROM ALL ENTITIES.
9. CONTRACTOR SHALL PROVIDE MEANS OF PROTECTION TO ENSURE EXISTING BURIED UTILITIES ARE NOT DAMAGED BY VEHICLES AND EQUIPMENT DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO REPAIR, AND IF NEEDED REPLACE, ANY BURIED UTILITIES THAT ARE DAMAGED DUE TO CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
10. CONTRACTOR SHALL REPAIR, AT NO ADDITIONAL COST TO THE OWNER, ANY DAMAGE TO ROADS BY CONSTRUCTION ACTIVITIES IF OCCURRED.
11. SURVEY WAS PERFORMED BY TERRAMARK LAND SURVEYING, INC. IN FEBRUARY 2020, MAY 2025 AND JULY 2025. THE BEARING STRUCTURE FOR THIS SURVEY IS BASED ON MONUMENTS FOUND AT THIS SITE WITH STATE PLANE COORDINATES AND ELEVATIONS PROVIDED BY OTHERS. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.
12. THIS PROJECT IS LOCATED ON PARCEL 15N29-001 AND 15N29-002 IN LANDLOT 1051 OF THE 15TH DISTRICT IN CHEROKEE COUNTY, GEORGIA.
13. THE PROPERTY IS ZONED R-40 - SINGLE FAMILY RESIDENTIAL AND ADJACENT PROPERTIES ARE ZONED R-15 - SINGLE-FAMILY RESIDENTIAL, R-20 - SINGLE FAMILY RESIDENTIAL, R-3 - MEDIUM DENSITY RESIDENTIAL, AND CV - CIVIC.
14. ALL WETLANDS OR STATE WATERS ON OR WITHIN 200 FEET OF THIS PROJECT HAVE BEEN DELINEATED.
15. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY CHEROKEE COUNTY OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE FEDERAL REGULATORY AGENCY FOR APPROVAL PRIOR TO UNDERTAKING ANY LAND DISTURBANCE WITHIN WETLANDS AREAS.
16. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY CHEROKEE COUNTY OF ANY LAND DISTURBING ACTIVITIES THAT MAY IMPACT ANY FEDERALLY-LISTED THREATENED OR ENDANGERED SPECIES PROTECTED BY THE ENDANGERED SPECIES ACT. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE US FISH AND WILDLIFE SERVICE FOR APPROVAL PRIOR TO UNDERTAKING ANY LAND DISTURBANCE THAT MAY IMPACT ANY FEDERALLY-LISTED THREATENED OR ENDANGERED SPECIES.
17. FINAL GRADING OF LOTS IS NOT TO ALTER NATURAL DRAINAGE PATTERN. FLOW SHALL ENTER AND EXIT SITE AS EXISTING CONDITIONS UNLESS WRITTEN APPROVAL IS OBTAINED FROM LOT OWNER AND ALL DOWNSTREAM AFFECTED PROPERTIES.
18. ALL IRRIGATION METERS MUST HAVE RAIN SENSORS PER STATE LAW.
19. CHANGES IN THE CONSTRUCTION PLANS OF STORM DRAINAGE FACILITIES CAUSED BY FIELD CONDITIONS SHALL BE MADE IN COMPLIANCE WITH SECTION 3.02-G OF THE CHEROKEE COUNTY DEVELOPMENT ORDINANCE.
20. THE LIMITS OF CONSTRUCTION ON THE PROJECT SITE ARE NOT LOCATED WITHIN A 100-YEAR FLOODPLAIN, FLOODWAY AREA, OR OTHER FLOOD AREA. THE SOURCE OF INFORMATION IS FEMA FIRM PANEL 352 FOR CHEROKEE COUNTY, GEORGIA AND INCORPORATED AREAS (MAP NUMBER 13057C0352E), REVISED JUNE 7, 2019.
21. NO RETAINING WALLS WILL BE CONSTRUCTED.
22. ANY FILL MATERIAL SUPPORTING STRUCTURAL LOADS SHALL BE ENGINEERED WITH PROPER DOCUMENTATION INCLUDING GEORGIA REGISTERED P.E. STAMP. SUBMIT DOCUMENTATION TO THE CHEROKEE COUNTY BUILDING DEPARTMENT PRIOR TO FOUNDATION INSPECTION.
23. FOR NON-RESIDENTIAL AND COMMERCIAL PROJECTS: SITE DEVELOPMENT AS-BUILT DRAWINGS, CONTAINING A BOUNDARY SURVEY, LOCATION, ELEVATION, HEIGHT AND SQUARE FOOTAGE OF BUILDING, PARKING AREAS, UTILITIES, RETAINING WALLS, STORMWATER SYSTEM AND ANY OTHER PERTINENT SITE DEVELOPMENT DATA ARE REQUIRED UPON COMPLETION OF THIS PROJECT. CHEROKEE COUNTY NEEDS THIS INFORMATION BEFORE SITE INSPECTION FOR C.O. IS ISSUED, PER ORDINANCE #2440-Z-001 (7.5-3.3-H.).

EROSION CONTROL:

1. CONTRACTOR TO POST EROSION CONTROL PERMIT ON JOB SITE AS REQUIRED.
2. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE ANY LAND CLEARING OR DISTURBANCE ACTIVITIES MAY BEGIN.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY EROSION CONTROL MEASURES WHETHER OR NOT SHOWN ON THE PLANS TO PROTECT ADJACENT CREEKS, RIVERS, ROADWAYS, ETC. FROM SILTATION AND EROSION.
4. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF ANY RAINFALL EVENT. REPAIR AND/OR REPLACE AS NECESSARY.
5. ALL CONTROLS MUST BE INSPECTED BY THE CONTRACTOR AT LEAST TWICE EVERY SEVEN (7) CALENDAR DAYS, 72 HOURS OR MORE APART AND WITHIN 24 HOURS OF ANY RAIN EVENT THAT PRODUCES MORE THAN 0.5 INCHES OVER THE PRECEDING 24 HOURS. IF CONTROLS ARE FOUND TO BE NON-PERFORMING, THE CONTRACTOR MUST TAKE IMMEDIATE CORRECTIVE ACTION.
6. ALL EXCESS SOIL RESULTING FROM EARTHWORK OPERATIONS SHALL BE REMOVED FROM SITE BY CONTRACTOR. ALL TEMPORARY SOIL STOCKPILE AREAS USED FOR BACKFILL AND OTHER ACTIVITIES SHALL BE WITHIN THE LOD AS SHOWN ON THE DRAWINGS, AND LOCATED, AT A MINIMUM, 50 FEET FROM ANY SURFACE WATERS. STOCKPILE SIDE SLOPES SHALL BE NO STEEPER THAN 3:1 AND TOP OF STOCKPILE SHALL BE SLOPED AT A MINIMUM OF 5% TO PROMOTE POSITIVE DRAINAGE. ALL ONSITE TEMPORARY SOIL STOCKPILES SHALL BE SEEDED WITH TEMPORARY AND/OR PERMANENT SEEDING MEASURES FOR THE DURATION OF CONSTRUCTION ACTIVITIES. ALL CONTRACTOR STAGING AND LAYDOWN AREAS, SOIL OR WASTE STOCKPILE AREAS SHALL HAVE PERIMETER SILT FENCE. LOCATED NO CLOSER THAN 6 FEET FROM TOE OF SLOPE TO ALLOW FOR ACCESS AND MAINTENANCE. ANY SOILS TAKEN OFF SITE BECOMES THE CONTRACTOR'S RESPONSIBILITY AND SHALL COMPLY WITH ALL REQUIRED STATE AND LOCAL REGULATIONS AND PERMITS.
7. ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ENTIRE SITE IS PERMANENTLY STABILIZED WITH VEGETATION AS PER SEEDING SPECIFICATIONS AND SCHEDULE. ALL TEMPORARY EROSION CONTROL DEVICES ARE TO BE REMOVED AFTER PERMANENT STABILIZATION HAS BEEN ACHIEVED AND APPROVAL HAS BEEN GRANTED BY THE ENGINEER.
8. RESTORE ALL DISTURBED AREAS INCLUDING DITCHES/SWALES, STAGING/LAYDOWN/PARKING AREAS TO ORIGINAL GRADE AND ELEVATION AND ORIGINAL OR BETTER CONDITION, EXCEPT WHERE NOTED ON THE CONTRACT DRAWINGS.
9. ONTRACTOR IS RESPONSIBLE FOR INSTALLATION, MAINTENANCE, AND REMOVAL OF ALL CONSTRUCTION ENTRANCES, PER SPECIFICATIONS AND DETAILS. CONTRACTOR SHALL KEEP PUBLIC AND PRIVATE ROADWAYS CLEAN OF CONSTRUCTION DEBRIS AND SEDIMENT.
10. ALL DISTURBED AREAS SHALL BE RESTORED TO EQUAL TO OR BETTER THAN ORIGINAL CONDITIONS.
11. CONTRACTOR SHALL REFER TO THE GEORGIA SOIL AND WATER CONSERVATION COMMITTEE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA AND CHEROKEE COUNTY SOIL EROSION, SEDIMENTATION AND POLLUTION CONTROL ORDINANCE FOR ADDITIONAL GUIDANCE.
12. ALL ON-SITE EROSION AND SEDIMENT CONTROL MEASURES MUST BE MADE FUNCTIONAL BEFORE OTHER LAND DISTURBANCE TAKES PLACE. PERMANENT OR TEMPORARY SOIL STABILIZATION, AS DESCRIBED UNDER STRUCTURAL PRACTICES, MUST BE APPLIED TO DISTURBED OR CONSTRUCTED AREAS WITHIN 14 DAYS AFTER FINAL GRADE IS REACHED. TEMPORARY OR PERMANENT SOIL STABILIZATION MUST BE APPLIED TO ALL DISTURBED AREAS NOT AT FINAL GRADE INCLUDING SOIL STOCKPILES, DIKES, AND DIVERSIONS, WHICH HAVE BEEN INACTIVE FOR 14 DAYS.
13. SOIL STOCKPILES SHALL BE LOCATED AWAY FROM STREAMS, PONDS, SWALES, AND CATCH BASINS. STOCKPILES SHALL BE SEEDED, MULCHED, AND ADEQUATELY CONTAINED THROUGH THE USE OF SILT FENCE. TOPSOIL, STOCKPILES, EXCAVATED STOCKPILES AND BORROW SITES, SHALL BE SURROUNDED BY SILT FENCE, RE-SEEDED, AND PLACED WHERE SEDIMENT WILL NOT LEAVE THE SITE.
14. ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED AND DISPOSED OF WITHIN 30-DAYS AFTER FINAL SITE STABILIZATION. FINAL STABILIZATION IS DEFINED AS A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% OR MORE ON NON-PAVED AREAS. TRAPPED SEDIMENT AND AREAS DISTURBED DURING REMOVAL OF THE CONTROLS SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION.
15. TOPSOIL IN AREAS OF EXCAVATION MAY BE STRIPPED AND SEPARATELY STOCKPILED ONSITE FOR FINISH LANDSCAPING AND/OR GRADING.

SYMBOLS

	EXISTING	NEW
BOLLARD/ POST	●	
COMMUNICATION BOX	C	
COMMUNICATION MANHOLE	C	
ELECTRICAL GUY WIRE		
ELECTRICAL POWER POLE		
ELECTRIC A/C UNIT	A/C	
ELECTRICAL BOX	E	
ELECTRIC LIGHT POLE		
ELECTRIC MANHOLE	E	
ELECTRIC METER	EM	
ELECTRIC TRANSFORMER	TX	
GAS METER	GM	
GAS VALVE	G	
GEO-TECH SOIL BORING		
MAILBOX	MB	
ROAD SIGNAGE	R/R	

	EXISTING	NEW
SEWER CLEANOUT	CO	
SEWER MANHOLE	S	
SEWER VALVE	S	
STORM INLET		
STORM MANHOLE	SD	
SURVEY BENCHMARK		
SURVEY CONTROL POINT		
TELEPHONE BOX	T	
TREE		
WATER HYDRANT (FIRE)	FH	
WATER MANHOLE	W	
WATER METER	WM	
WATER VALVE	W	

LEGEND

	EXISTING	NEW
BUILDING/STRUCTURE		
BITUMINOUS PAVEMENT		
CONCRETE CURB AND GUTTER		
CONCRETE PAD/PAVING		
CONCRETE SIDEWALK		
FENCE	X	(RESET/NEW) X
CONTOUR (MAJOR)	300	300
CONTOUR (MINOR)		
SPOT ELEVATION	302.00 ×	× 302.50
PROPERTY LINE		
EASEMENT		
RIGHT-OF-WAY		

	EXISTING	NEW
SAN. SEWER (GRAVITY) <12"	SS	
SAN. SEWER (GRAVITY) ≥12"		
FORCE MAIN <12"	FM	
FORCE MAIN ≥12"		
WATER PIPING <12"	W	
WATER PIPING ≥12"		
STORM SEWER <12"	SD	
STORM SEWER ≥12"		
GAS MAIN <12"	GAS	
GAS MAIN ≥12"		
OVERHEAD ELEC.	OHE	
UNDERGROUND ELEC.	UGE	
OVERHEAD COMM.	OHC	
UNDERGROUND COMM.	UGC	
FIBER OPTIC	FOC	

	EXISTING	NEW
SILT FENCE		SF
LIMITS OF DISTURBANCE		LOD
CONSTRUCTION ENTRANCE		
CONCRETE PAVING DEMO		
SITE DEMO		
UTILITY DEMO		

ABBREVIATIONS

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE — 0 1/2" 1"

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	M. ORR
DRAWN BY:	M. SEEBOLD
CHECKED BY:	B. JONES

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY DANIEL D. SEBUSCH, P.E. No. 030101 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT

Hazen
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ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

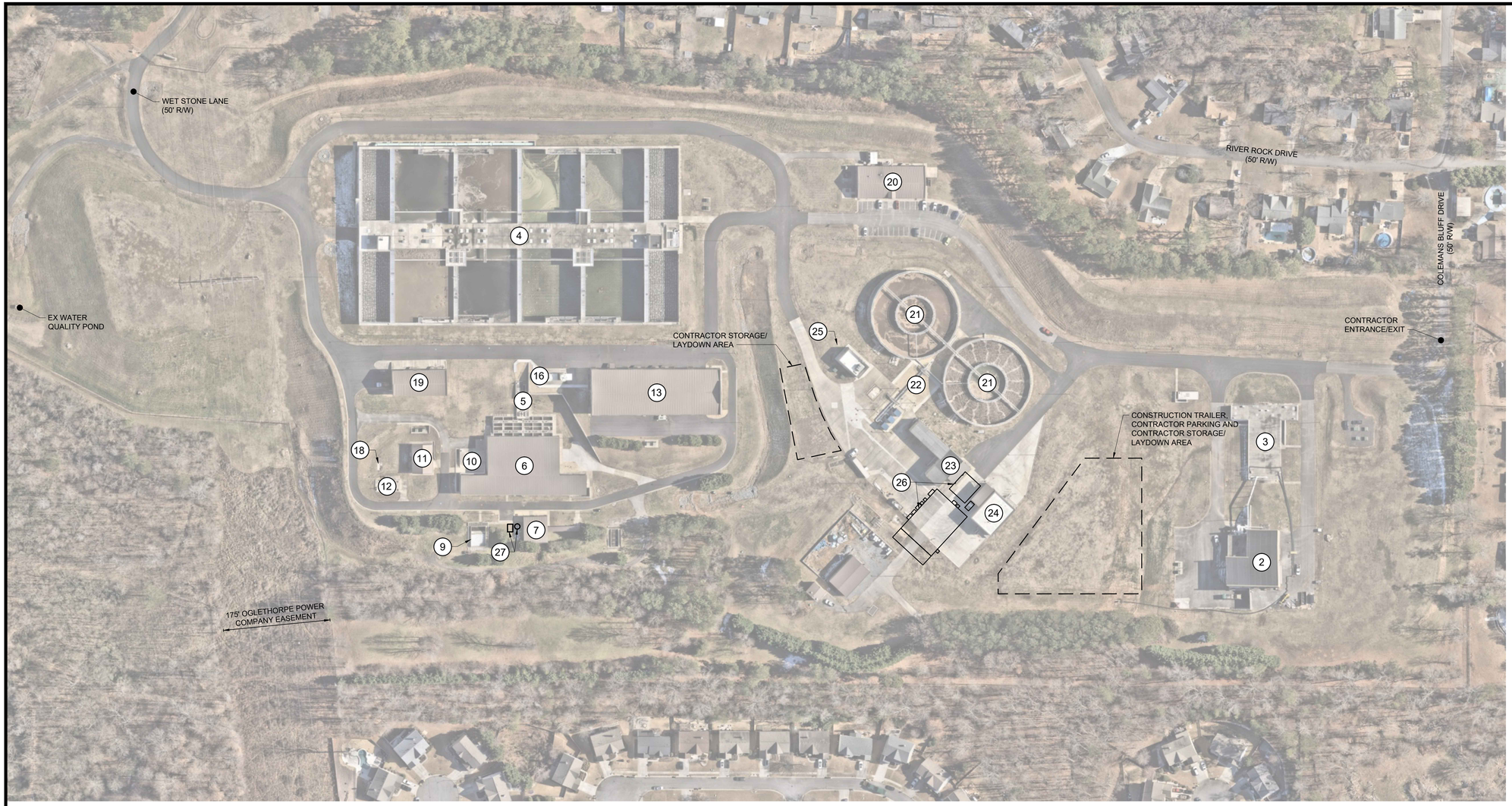
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
NOTES, SYMBOLS, LEGEND AND ABBREVIATIONS

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA NO.:	2022_007
DRAWING NUMBER:	00-C-001

File: C:_DCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DES\GNCIVIL\32307-007-00-C-001 Saved by MSEEBOLD Save date: 11/4/2025 7:47 AM
PLOT DATE: 2/25/2026 9:22 AM BY: MSEEBOLD



PLAN
SCALE: 1" = 100'

FACILITY LEGEND

2	HEADWORKS
3	INFLUENT EQUALIZATION BASIN
4	BIOLOGICAL TREATMENT
5	FLOW CONTROL VAULT
6	TERTIARY TREATMENT
7	PARSHALL FLUME - UV
9	CASCADE AERATION
10	CHEMICAL SLUDGE PUMP STATION
11	COMPRESSOR BUILDING
12	PLANT DRAIN PUMP STATION
13	CHEMICAL - ELECTRICAL - BLOWER BUILDING
16	LIQUID LIME
18	MISCELLANEOUS VAULTS
19	MAINTENANCE BUILDING
20	CONTROL BUILDING
21	AEROBIC DIGESTERS
22	AEROBIC DIGESTER BLOWER FACILITY
23	DEWATERING BUILDING No. 1
24	DEWATERING BUILDING No. 2
25	SOLIDS ELECTRICAL BUILDING
26	THERMAL DRYER FACILITY AND CAKE HANDLING PAD
27	FINAL EFFLUENT WATER PUMP STATION

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: M. ORR
DRAWN BY: M. SEEBOLD
CHECKED BY: B. JONES
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY DANIEL D. SEBUSCH, P.E. No. 030101 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT

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HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

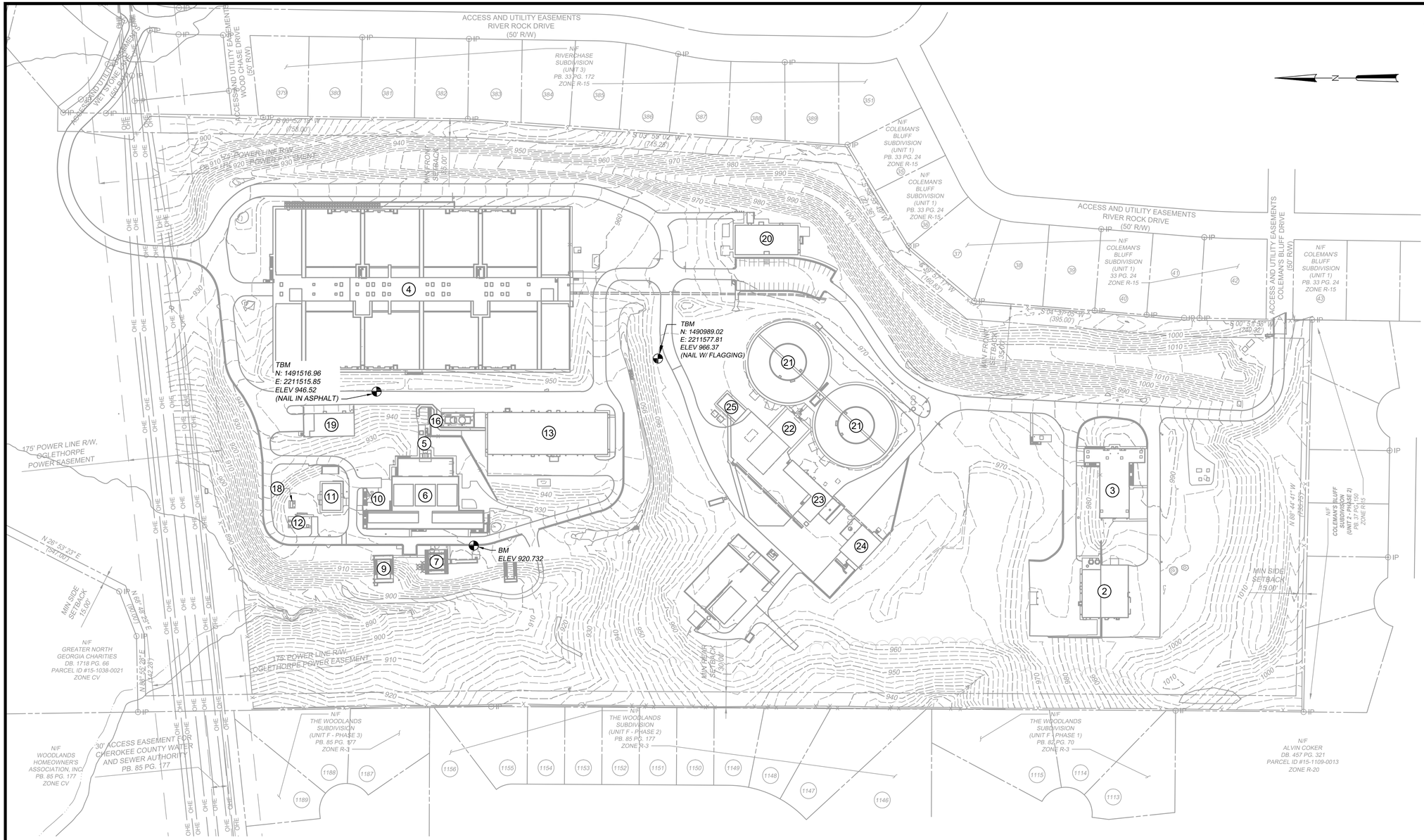
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
FACILITY INDEX, OVERALL PLAN AND STORMWATER NOTES

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-C-001

File: C:_DC\ACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-001 Saved by DSEBUSCH Save date: 10/6/2025 1:47 PM
PLOT DATE: 2/25/2026 9:22 AM BY: MSEEBOLD



PLAN
SCALE: 1" = 100'

NOTES:

1. TOPOGRAPHIC AND PLANAMETRIC INFORMATION BASED ON A FIELD RUN SURVEY PROVIDED BY TERRAMARK IN JANUARY 2020. ADDITIONAL SURVEY OF THE PROJECT AREA WAS ALSO PROVIDED BY TERRMARK IN MAY AND JULY 2025.
2. ALL SITE DATA IS PROVIDED IN GEORGIA STATE PLANE-WEST COORDINATE SYSTEM, NAVD88.
3. SITE IS LOCATED IN DISTRICT 15, LAND LOTS 1038 AND1051 OF CHEROKEE COUNTY, GEORGIA.
4. UNDERGROUND UTILITIES AND STRUCTURES NOT SHOWN FOR CLARITY.
5. TOTAL PROPERTY ACREAGE = 55.15 AC.
6. ZONING CLASSIFICATION = SINGLE-FAMILY RESIDENTIAL (R-40).
7. MINIMUM FRONT SETBACK = 35 FEET, MINIMUM SIDE SETBACK = 15 FEET AND MINIMUM REAR SETBACK = 30 FEET.
8. THE PROPOSED USE AND DEVELOPMENT OF THE SUBJECT SITE SHALL COMPLY WITH THE REQUIREMENTS OF THE CHEROKEE COUNTY ZONING ORDINANCE.
9. NEW PROPERTY MONUMENTS AND MARKERS SHALL NOT BE PROVIDED.
10. THE ONLY NEW ROAD SIGNS TO BE ERECTED/POSTED ARE THE "NO PARKING FIRE LANE" SIGNS SHOWN ON DRAWINGS 01-C-202 AND 01-C-407.

ZONING CLASSIFICATION KEY:

R-3 - MEDIUM DENSITY RESIDENTAL

R-15 - SINGLE FAMILY RESIDENTIAL

R-20 - SINGLE FAMILY RESIDENTIAL

R-40 - SINGLE FAMILY RESIDENTIAL

CV - CIVIC

FACILITY LEGEND

2	HEADWORKS
3	INFLUENT EQUALIZATION BASIN
4	BIOLOGICAL TREATMENT
5	FLOW CONTROL VAULT
6	TERTIARY TREATMENT
7	PARSHALL FLUME - UV
9	CASCADE AERATION
10	CHEMICAL SLUDGE PUMP STATION
11	COMPRESSOR BUILDING
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13	CHEMICAL - ELECTRICAL - BLOWER BUILDING
16	LIQUID LIME
18	MISCELLANEOUS VAULTS
19	MAINTENANCE BUILDING
20	CONTROL BUILDING
21	AEROBIC DIGESTERS
22	AEROBIC DIGESTER BLOWER FACILITY
23	DEWATERING BUILDING No. 1
24	DEWATERING BUILDING No. 2
25	SOLIDS ELECTRICAL BUILDING

REV	ISSUED FOR	DATE	BY
4	CONFORMED SET	03/2026	DS
3	ADDENDUM No. 2	12/2025	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: M. ORR
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GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
EXISTING CONDITIONS AND SURVEY INFORMATION

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-C-002

File: C:_DOCACDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-002 Saved by MSEEBOLD Save date: 2/25/2026 9:16 AM
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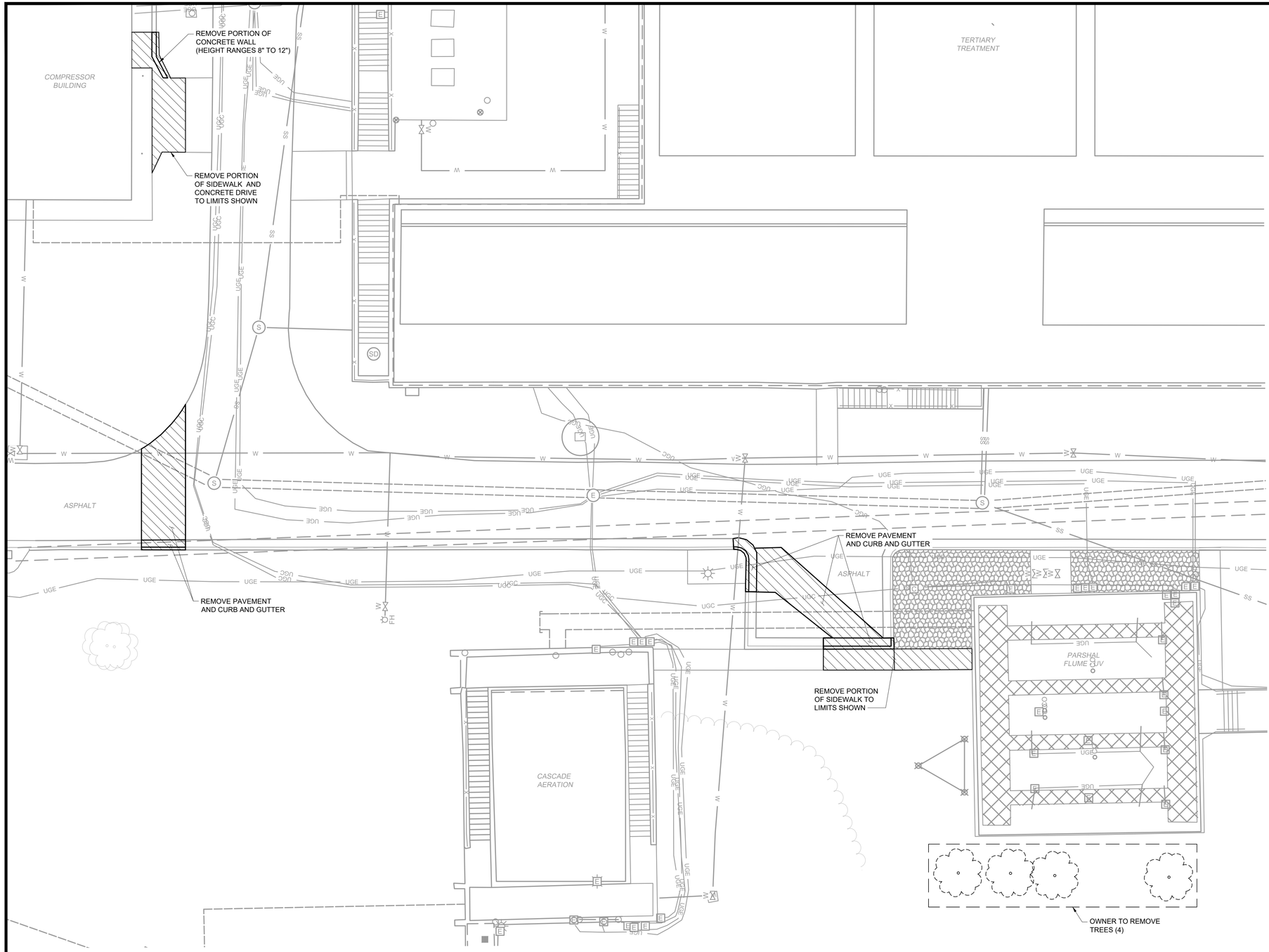

PLAN
SCALE: 1" = 10'

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER:	D. SEBUSCH
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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
DEMOLITION PLAN
STRUCTURE 27 AREA

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA NO.:	2022_007
DRAWING NUMBER:	01-C-101

File: C:_DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-101 Saved by MSEEBOLD Save date: 7/31/2025 1:13 PM
PLOT DATE: 2/25/2026 9:22 AM BY: MSEEBOLD

AERIOBIC DIGESTER No. 2
SOLIDS HANDLING ELEC BLDG
AERIOBIC DIGESTER No. 1
DIGESTER BLOWERS
DEWATERING BUILDING No. 1
DEWATERING BUILDING No. 2
WATER VAULT
TANK
SBR BASINS (ABND)
INTERMEDIATE CONC WALL
BLDG
ASPHALT
CONCRETE
SSMH (11650) TOP: 969.77 IN "A": 963.51 (10" DIP) IN "B": 962.53 (12" DIP) TOP OF DEBRIS: 962.45
SSMH (11480) TOP: 969.76 IN: 964.00 (12" DIP) IN: 960.86 (18" DIP) OUT: 960.88 (18" DIP)
SSMH (201742) TOP: 959.01 IN "A": 931.85 (18" DIP) IN "B": 941.55 (18" DIP) OUT: 931.68 (18" DIP)
SSMH (201851) TOP: 963.53
SSMH (201805) TOP: 968.12
SDMH (201806) TOP: 966.95 IN: 958.19 (18" RCP) OUT: 958.16 (18" RCP)
SDMH (201746) TOP: 961.37 IN: 954.63 (18" RCP) OUT: 954.60 (18" RCP)
SSMH (201560) TOP: 960.48 IN: 948.35 (18" DIP) OUT: 948.29 (18" DIP)
SSMH (201865) TOP: 969.68 IN "A": 960.41 (18" DIP) IN "B": 963.76 (12" DIP) OUT: 960.27 (18" DIP)
SSMH (201207) TOP: 968.64 IN: 959.29 (18" DIP) OUT: 959.00 (18" DIP)
SSMH (201476) TOP: 965.80 IN "A": 950.55 (18" DIP) (SW) IN "B": 950.33 (18" DIP) (SE) OUT: 950.27 (18" DIP) (NW)
SSMH (201003) TOP: 963.93 IN: 951.97 (18" DIP) OUT: 951.83 (18" DIP)
SSMH (201315) TOP: 972.71 IN: 957.84 (8" RCP) IN: 957.62 (12" DIP) OUT: 957.51 (12" DIP)
SSMH (201159) TOP: 968.33 IN 957.53 (18" DIP) IN 960.13 (12" DIP) OUT: 957.28 (18" DIP)
CI (201024) TOP: 967.36 OUT: 960.82 (18" RCP)
SSMH (201362) TOP: 965.58 IN "A": 954.88 (18" DIP) IN "B": 955.23 (12" DIP) OUT: 954.73 (18" DIP)
SDMH (201023) TOP: 966.79 IN: 960.65 (18" RCP) OUT: 960.63 (18" RCP)
CI (201001) TOP: 965.76 IN: 959.68 (18" RCP) OUT: 959.60 (18" RCP)
SDMH (201002) TOP: 966.14 IN: 959.75 (6" PVC) IN: 962.00 (18" RCP) OUT: 959.69 (18" RCP)
INV: 970.97
INV: 971.06
ABANDON UGE
REMOVE ABANDONED PARSHALL FLUME SEE NOTE 2
ABANDON/REMOVE ELEC DUCT BANKS FOR DETAILS, SEE ELECTRICAL DEMO SITE PLAN, TYP
REMOVE RIVER ROCK
ABANDON 4" PW PIPING TO LIMITS SHOWN
ABANDON STORM PIPING TO LIMITS SHOWN, SEE DETAIL 1 ON DWG 01-C-602
ABANDON SLUDGE PUMP VAULT AND PIPING SEE NOTE 3
REMOVE WATER METER
REMOVE RIVER ROCK
REMOVE VALVES AND CAP OPEN END OF PIPES THAT REMAIN
REMOVE FH ASSEMBLY
ABANDON/REMOVE UGE FOR DETAILS, SEE ELECTRICAL DEMO SITE PLAN, TYP
REMOVE PORTION OF SBR BASIN AND TANK WALL BACK TO INTERMEDIATE WALL SEE NOTE 1
1 / 01-C-602 MANHOLE AND PIPE ABANDONMENT
ABANDON 6" PW PIPING TO LIMITS SHOWN
REMOVE VALVE AND CAP OPEN END OF PIPES THAT REMAIN
ABANDON SANITARY MH AND PIPING TO LIMITS SHOWN, SEE DETAIL 1 ON DWG 01-C-602
REMOVE ASPHALT DRIVE TO LIMITS SHOWN
RELOCATE FIRE HYDRANT ASSEMBLY
REMOVE CURB AND GUTTER
ABANDON/REMOVE UGE FOR DETAILS, SEE ELECTRICAL DEMO SITE PLAN, TYP
REPLACE STORM PIPE
REMOVE CURB AND GUTTER

PLAN
SCALE: 1" = 30'

NOTES:

1. SEE DRAWINGS C-08 AND 6-M2 OF THE FITZGERALD CREEK WPCP PHASE 1 EXPANSION TO 2.0 MGD, JULY 2003, RECORD DRAWING PLAN SET (IN APPENDIX B OF THE SPECIFICATIONS) FOR MORE INFORMATION.
2. SEE DRAWINGS 8-S4, 8-M2 AND 8-E1 OF THE FITZGERALD CREEK WPCP PHASE 1 EXPANSION TO 2.0 MGD, JULY 2003, RECORD DRAWING PLAN SET (IN APPENDIX B OF THE SPECIFICATIONS) FOR MORE INFORMATION.
3. SEE DRAWINGS C-02, 1-S1, 1-M1 THROUGH 1-M3, 1-H1 AND 1-E1 OF THE FITZGERALD CREEK WPCP SOLIDS HANDLING, NOVEMBER 2004, RECORD DRAWING PLAN SET (IN APPENDIX B OF THE SPECIFICATIONS) FOR MORE INFORMATION.

DEMO LEGEND

- CONCRETE PAVING DEMO
- SITE DEMO
- UTILITY DEMO

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

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PROJECT ENGINEER: D. SEBUSCH
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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
DEMOLITION PLAN
STRUCTURE 26 AREA

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-C-102

File: C:_DCVACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DES\GN\CIVIL\32307-007-01-C-102 Saved by MSEEBOLD Save date: 10/30/2025 4:17 PM
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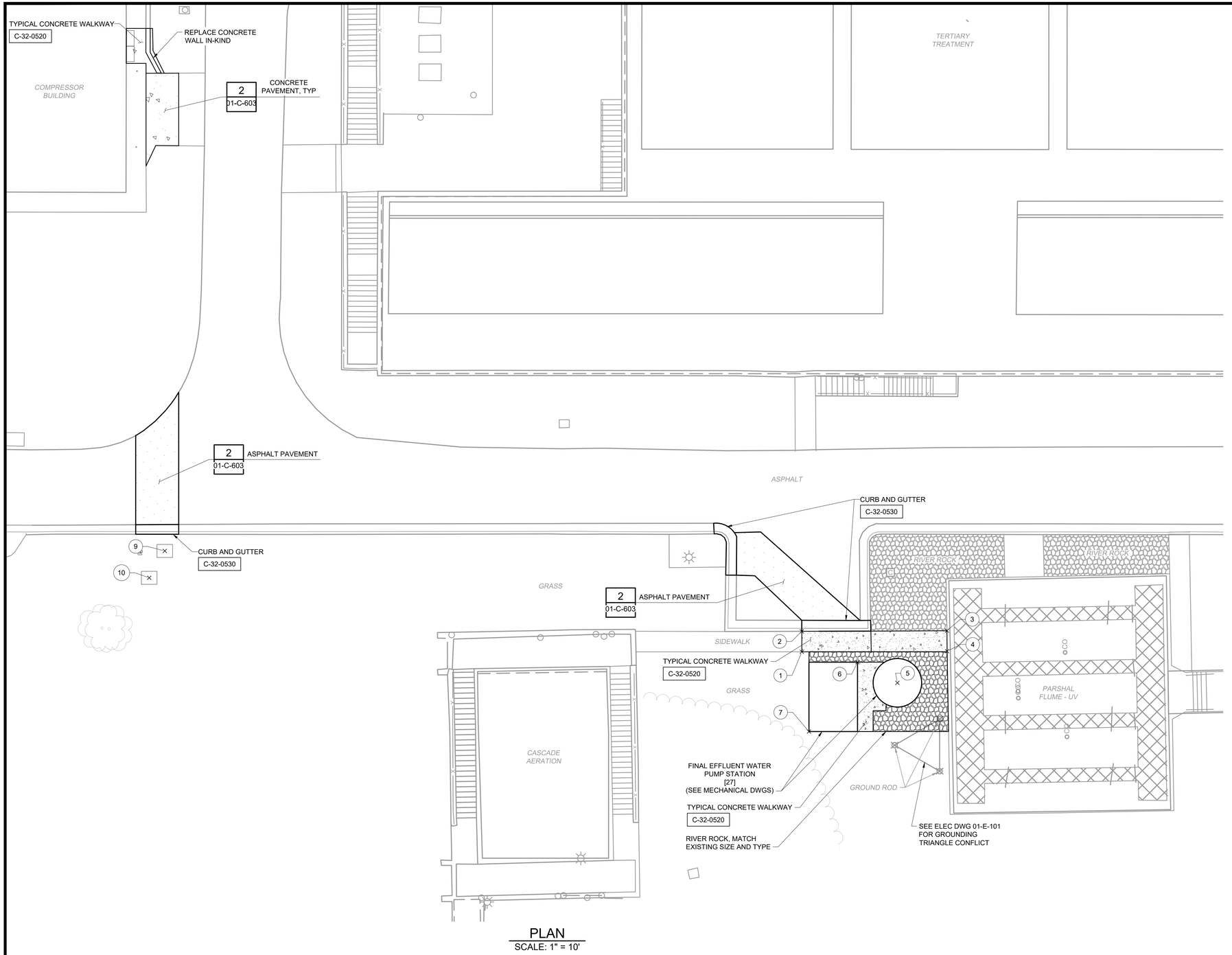

PLAN
SCALE: 1" = 10'

STAKING TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
1	1491453.96	2211204.70	SIDEWALK
2	1491453.96	2211208.64	SIDEWALK
3	1491426.05	2211208.75	GRAVEL EDGE
4	1491426.02	2211204.81	GRAVEL EDGE
5	1491435.58	2211198.73	PUMP STATION CENTER
6	1491443.25	2211202.70	STRUCTURE CORNER
7	1491452.58	2211189.37	STRUCTURE CORNER
8	1491425.74	2211189.37	GRAVEL EDGE
9	1491576.45	2211224.08	HANDHOLE
10	1491579.45	2211218.92	HANDHOLE

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

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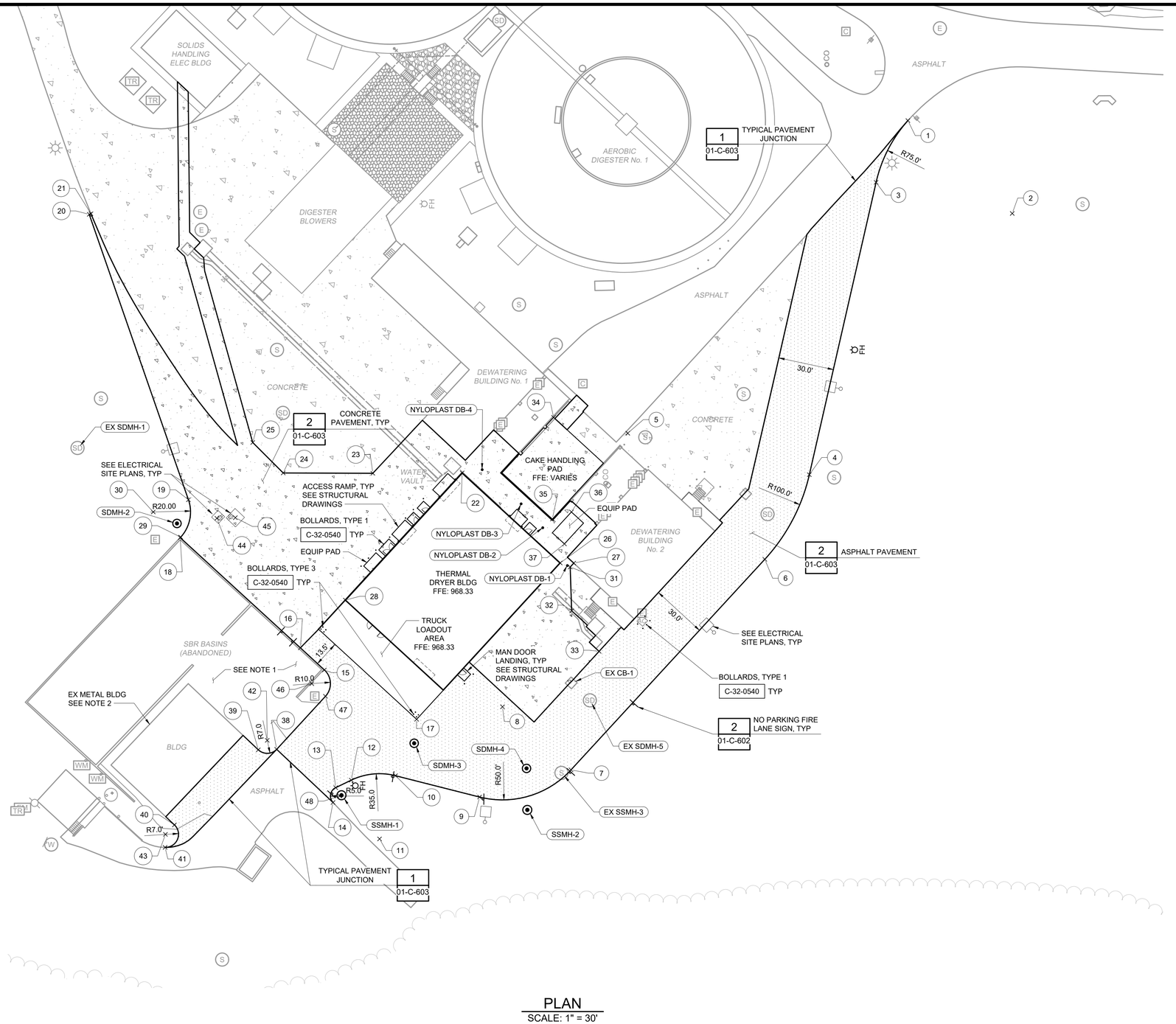
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
SITE LAYOUT AND PAVING PLAN
STRUCTURE 27 AREA

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-C-201

File: C:_DOCS\ACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-201 Saved by MSEEBOLD Save date: 11/4/2025 7:24 AM
PLOT DATE: 2/25/2026 9:23 AM BY: MSEEBOLD



PLAN
SCALE: 1" = 30'

NOTES:

1. CONTRACTOR SHALL DEPOSIT, SPREAD AND COMPACT RECLAIMED ASPHALT FROM MILLING OPERATIONS AT HEADWORKS ON EX GRAVEL.
2. AT ALL TIMES WHEN THE EXISTING CONCRETE PAVEMENT TO THE NORTH, WEST, AND SOUTH OF THE THERMAL DRYER FACILITY BUILDING HAS BEEN TEMPORARILY REMOVED FOR THE CONTRACTOR'S WORK, CONTRACTOR SHALL PROVIDE A TEMPORARY GRAVEL ROAD TO ALLOW THE OWNER TO MOVE THEIR MAINTENANCE EQUIPMENT IN AND OUT OF THE EXISTING METAL BUILDING LOCATED WITHIN THE ABANDONED SBR BASINS. EXTENTS OF GRAVEL ROADWAY SHALL BE AS REQUIRED TO ALLOW THE OWNER'S EQUIPMENT TO ADEQUATELY CROSS THROUGH A PORTION OF THE CONTRACTOR'S WORK AREA AND ACCESS THE REMAINDER OF THE WPCP.

STAKING TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
1	1490466.07	2211453.23	EDGE OF PAVEMENT
2	1490410.04	2211403.35	75' RADIUS
3	1490483.15	2211420.05	EDGE OF PAVEMENT
4	1490519.01	2211263.06	EDGE OF PAVEMENT
5	1490616.50	2211285.33	100' RADIUS
6	1490542.92	2211217.61	EDGE OF PAVEMENT
7	1490646.99	2211104.55	EDGE OF PAVEMENT
8	1490683.78	2211138.41	50' RADIUS
9	1490696.07	2211089.94	EDGE OF PAVEMENT
10	1490741.21	2211101.39	EDGE OF PAVEMENT
11	1490749.82	2211067.47	35' RADIUS
12	1490764.99	2211099.00	EDGE OF PAVEMENT
13	1490773.34	2211094.99	EDGE OF PAVEMENT
14	1490774.79	2211087.02	EDGE OF PAVEMENT
15	1490779.43	2211158.19	EDGE OF PAVEMENT
16	1490792.32	2211170.07	EDGE OF PAVEMENT
17	1490729.89	2211131.70	EDGE OF PAVEMENT
18	1490856.87	2211229.23	EDGE OF PAVEMENT
19	1490852.44	2211249.61	EDGE OF PAVEMENT
20	1490905.71	2211402.87	EDGE OF PAVEMENT
21	1490904.77	2211403.19	EDGE OF PAVEMENT
22	1490705.43	2211264.02	EDGE OF PAVEMENT
23	1490753.41	2211263.82	EDGE OF PAVEMENT
24	1490801.54	2211264.00	EDGE OF PAVEMENT
25	1490817.91	2211280.35	EDGE OF PAVEMENT
26	1490652.77	2211215.65	BUILDING PAD CORNER
27	1490645.51	2211215.56	EDGE OF PAVEMENT
28	1490768.17	2211195.71	BUILDING PAD CORNER
29	1490856.59	2211229.54	EDGE OF PAVEMENT
30	1490871.33	2211243.05	20' RADIUS

STAKING TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
31	1490647.43	2211213.47	EDGE OF PAVEMENT
32	1490646.64	2211189.95	EDGE OF PAVEMENT
33	1490631.91	2211168.19	EDGE OF PAVEMENT
34	1490656.35	2211293.85	PAD CORNER
35	1490657.03	2211239.25	PAD CORNER
36	1490646.76	2211243.04	PAD CORNER
37	1490650.52	2211225.90	PAD CORNER
38	1490805.06	2211115.57	EDGE OF PAVEMENT
39	1490814.93	2211115.32	EDGE OF PAVEMENT
40	1490859.98	2211074.99	EDGE OF PAVEMENT
41	1490864.97	2211062.90	EDGE OF PAVEMENT
42	1490810.12	2211120.40	7' RADIUS
43	1490864.79	2211069.90	7' RADIUS
44	1490837.15	2211239.64	ELECTRICAL MANHOLE
45	1490827.25	2211239.98	ELECTRICAL MANHOLE
46	1490786.21	2211150.84	10' RADIUS
47	1490778.85	2211144.07	EDGE OF PAVEMENT
48	1490771.17	2211090.48	5' RADIUS

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

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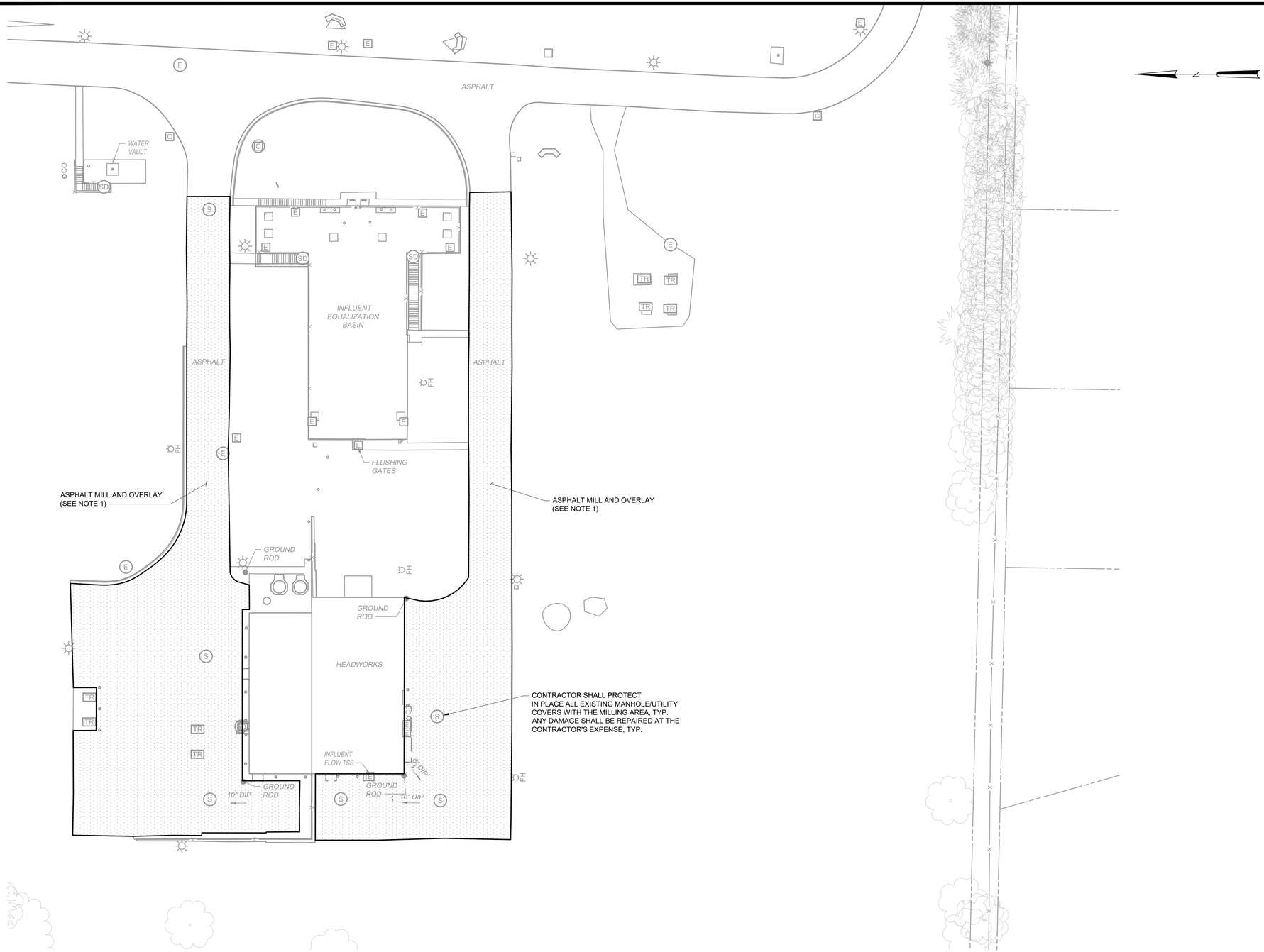
THERMAL DRYER FACILITY

CIVIL
SITE LAYOUT AND PAVING PLAN
STRUCTURE 26 AREA

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-C-202

File: C:_DCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-202 Saved by MSEEBOLD Save date: 2/25/2026 8:32 AM
PLOT DATE: 2/25/2026 9:23 AM BY: MSEEBOLD



PLAN
SCALE: 1" = 30'

NOTES:

1. MILL AREAS (DEPTH 1.5") INDICATED ON THE DRAWING IN ACCORDANCE WITH GDOT SECTION 432, MILL ASPHALTIC CONCRETE PAVEMENT.
2. FOR AREAS WHERE MILLING CANT BE PERFORMED, ASPHALT SHALL BE REMOVED AND REPLACED.
3. WHERE ASPHALT CONCRETE IS PROPOSED TO BE PLACED OVER A MILLED SURFACE, EXISTING ASPHALT OR RIGID CONCRETE SURFACE, THE SURFACE SHALL BE THOROUGHLY CLEANED BY POWER BROOMING AND A TACK COAT SHALL BE APPLIED IN ACCORDANCE WITH GDOT SECTION 413, BITUMINOUS TACK COAT, OF THE GDOT STANDARD SPECIFICATIONS, PRIOR TO INSTALLING THE OVERLAY. THE OVERLAY SHALL BE APPLIED IN ACCORDANCE WITH SUBSECTIONS 2.06 AND 3.05 AND STANDARD DETAILS SHOWN ON THE DRAWINGS.

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0, 1/2", 1")

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: M. ORR
DRAWN BY: M. SEEBOLD
CHECKED BY: B. JONES

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY DANIEL D. SEBUSCH, P.E. No. 030101 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

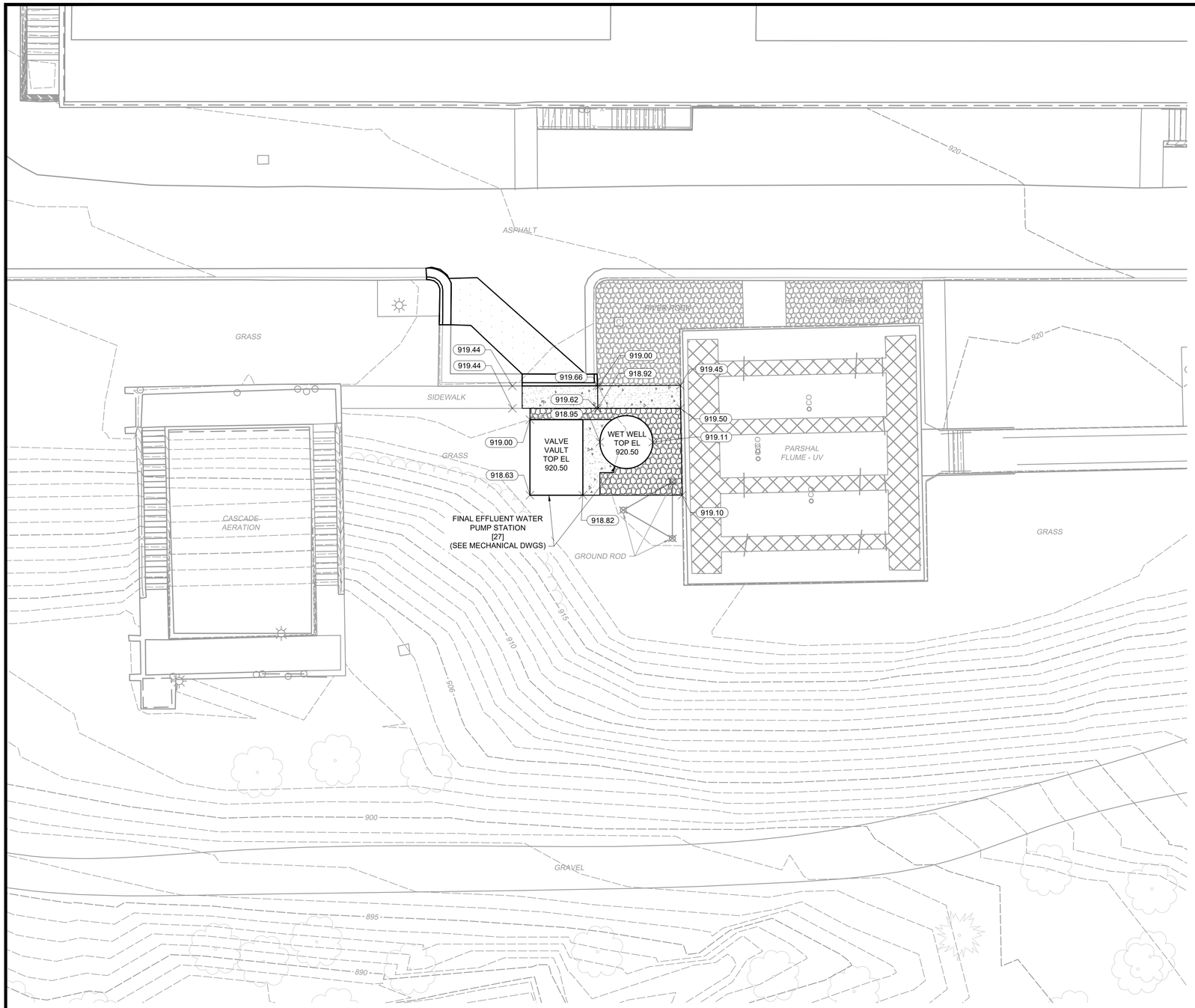
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
SITE LAYOUT AND PAVING PLAN
ASPHALT MILL AND OVERLAY

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-C-203

File: C:_DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-203 Saved by MSEEBOLD Save date: 7/30/2025 11:43 AM
PLOT DATE: 2/25/2026 9:23 AM BY: MSEEBOLD



PLAN
SCALE: 1" = 10'

NOTES:

1. SEE CHEROKEE COUNTY STORMWATER NOTES ON DRAWING 01-C-302.

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: M. ORR
DRAWN BY: M. SEEBOLD
CHECKED BY: B. JONES
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

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HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

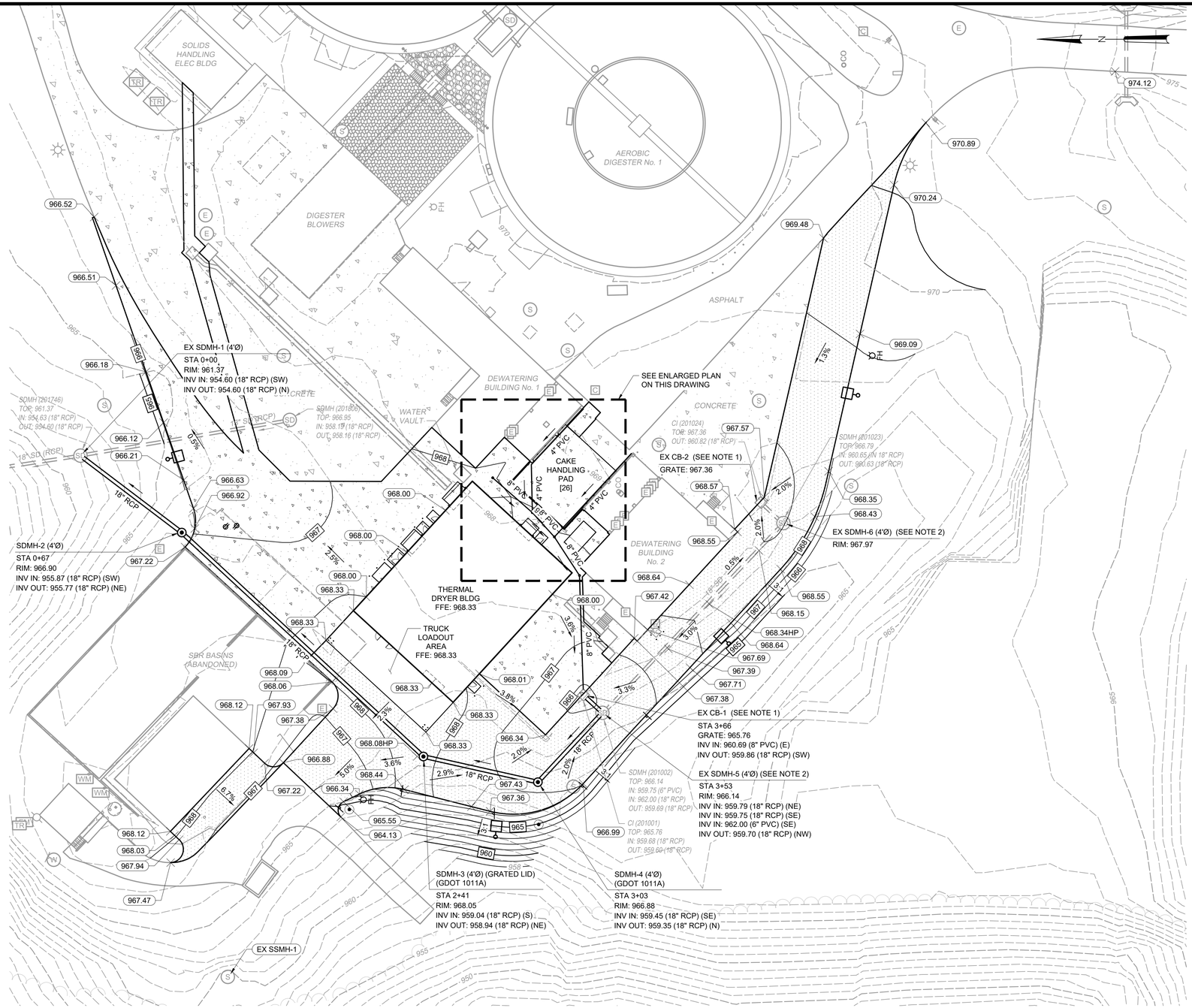
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
GRADING PLAN
STRUCTURE 27 AREA

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-C-301

File: C:_DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-301 Saved by MSEEBOLD Save date: 11/4/2025 7:33 AM
PLOT DATE: 2/25/2026 9:23 AM BY: MSEEBOLD



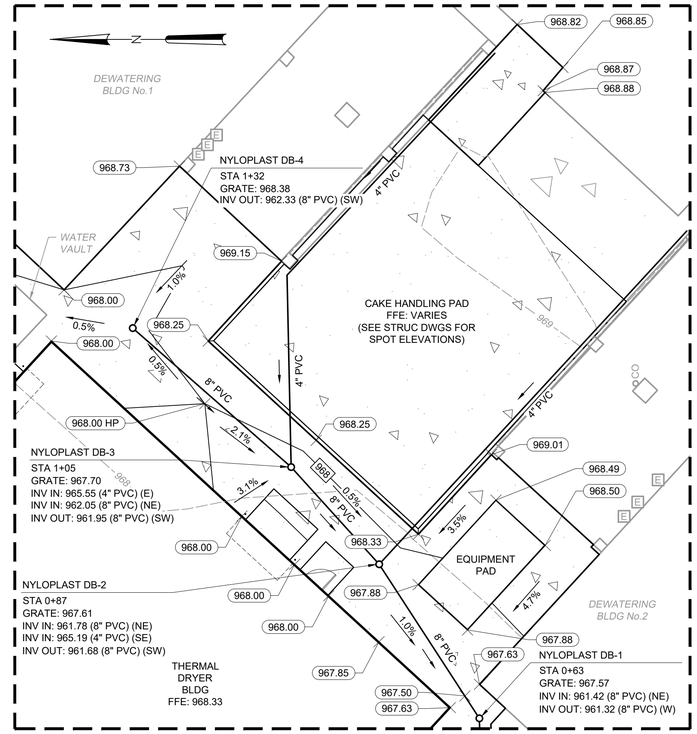
PLAN
SCALE: 1" = 30'

NOTES:

1. REMOVE EXISTING HOOD. ADJUST FRAME AND GRATE ELEVATION AS NEEDED. (2)
2. CONTRACTOR SHALL ADJUST FRAME AND LID AS NEEDED.

CHEROKEE COUNTY STORMWATER NOTES:

1. THE ENTIRE STORMWATER MANAGEMENT SYSTEM, INCLUDING ALL CONVEYANCE, STORAGE, TREATMENT, FLOWRATES, ETC. WILL NEED TO BE ANALYZED BY A GEORGIA REGISTERED ENGINEER, USING "AS-BUILT" DATA PROVIDED BY A GEORGIA REGISTERED LAND SURVEYOR PRIOR TO SITE RELEASE/CERTIFICATE OF OCCUPANCY. CONTACT THE ENGINEERING DEPARTMENT AT 678-493-6074 OR BLMORGAN@CHEROKEECOUNTYGA.GOV FOR ADDITIONAL INFORMATION.
2. A STORMWATER MAINTENANCE AGREEMENT IS REQUIRED FOR THIS PROJECT PRIOR TO THE FINAL PLAT SITE RELEASE/CERTIFICATE OF OCCUPANCY. PLEASE SUBMIT A FULL DRAFT SINCE THESE FACILITIES ARE EXISTING. A DRAFT COPY OF THE REQUIRED AGREEMENT CAN BE DOWNLOADED FROM: HTTPS://WWW.CHEROKEECOUNTYGA.GOV/STORMWATER-MANAGEMENT/_RESOURCES/DOCUMENTS/MAINTENANCE_AGREEMENT-UPDATED_7_20_2010.PDF
3. THE STORMWATER MAINTENANCE AGREEMENT SHOULD BE SUBMITTED VIA E-MAIL OR ON CITIVIEW FOR PRELIMINARY REVIEW AND APPROVAL. PLEASE NOTE THAT EXHIBITS A, B, C, AND D MUST BE INCLUDED AND MUST BE CUSTOMIZED FOR THE PROJECT UNDER REVIEW. AFTER PRELIMINARY APPROVAL, THE ORIGINAL COMPLETE DOCUMENT SHOULD BE SUBMITTED TO THE ENGINEERING DEPARTMENT FOR SIGNATURE BY THE COUNTY ENGINEER AND NOTARIZED. THE AGREEMENT MUST THEN BE PICKED UP BY THE APPLICANT AND RECORDED WITH THE CHEROKEE COUNTY CLERK OF COURT (DEEDS AND RECORDS DEPARTMENT). DEEDS AND RECORDS ONLY ACCEPTS ORIGINAL DOCUMENTS WITH THE NOTARY SEAL, AND THEY MUST BE 8.5X11 OR 8.5X14. THE RECORDED DOCUMENT MUST BE RETURNED TO CHEROKEE COUNTY ENGINEERING DEPARTMENT PRIOR TO ISSUANCE OF A FINAL PLAT OR SITE RELEASE/CERTIFICATE OF OCCUPANCY.
4. TOTAL WETLAND ACRES WITHIN THE LIMITS OF CONSTRUCTION ON THE PROJECT SITE ARE 0.00 ACRES.
5. THE PROPERTY OWNER WILL BE REQUIRED TO KEEP ALL DRAINAGE EASEMENTS OFF OF THE COUNTY RIGHT-OF-WAY FREE OF OBSTRUCTION IN SUCH A WAY AS TO ENSURE THE MAXIMUM DESIGNED FLOW AT ALL TIMES. THE PROPERTY OWNER SHALL NOT ALTER ANY DRAINAGE IMPROVEMENTS WITHOUT THE PRIOR WRITTEN APPROVAL FROM THE CHEROKEE COUNTY ENGINEERING DEPARTMENT.
6. CHEROKEE COUNTY SHALL NOT BE RESPONSIBLE FOR MAINTENANCE OF ANY PIPES, DITCHES, DETENTION PONDS, WATER QUALITY STRUCTURES, OR OTHER STRUCTURES WITHIN ANY DRAINAGE EASEMENT OUTSIDE THE COUNTY RIGHT-OF-WAY.
7. THE CURRENT PROPERTY OWNER IS RESPONSIBLE FOR THE MAINTENANCE OF ALL STORM WATER MANAGEMENT FACILITIES.
8. IT IS THE POLICY OF CHEROKEE COUNTY THAT DRAINAGE EASEMENTS ARE DEDICATED TOTHE PUBLIC USE AND ARE NOT ACCEPTED BY CHEROKEE COUNTY FOR COUNTY MAINTENANCE AND ARE NOT CONSIDERED COUNTY PROPERTY. IT IS CHEROKEE COUNTY POLICY THAT NO COUNTY FORCES OR EQUIPMENT SHALL BE USED TO PERFORM CONSTRUCTION TO ANY DRAINAGE EASEMENT WITHIN CHEROKEE COUNTY, UNLESS SAID EASEMENT LIES WITHIN CHEROKEE COUNTY RIGHT-OF-WAY AND/OR SAID WORK IS NECESSARY TO PROTECT COUNTY RIGHT-OF-WAY PER POLICY ADOPTED JANUARY 14, 1997.
9. CONTRACTOR TO MAINTAIN DOWNSTREAM STORM WATER INFRASTRUCTURE(PIPES AND DITCHES) ENSURING FULL FUNCTIONALITY DURING PROJECT DURATION.



ENLARGED PLAN
SCALE: 1" = 10'

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: M. ORR
DRAWN BY: M. SEEBOLD
CHECKED BY: B. JONES
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

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Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
GRADING PLAN
STRUCTURE 26 AREA

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-C-302

File: C:_DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-302 Saved by MSEEBOLD Save date: 2/25/2026 8:34 AM
PLOT DATE: 2/25/2026 9:23 AM BY: MSEEBOLD

NOTES:

1. SEE CHEROKEE COUNTY STORMWATER NOTES ON DRAWING 01-C-302.

PLAN
SCALE: 1" = 30'

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: M. ORR
DRAWN BY: M. SEEBOLD
CHECKED BY: B. JONES

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HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

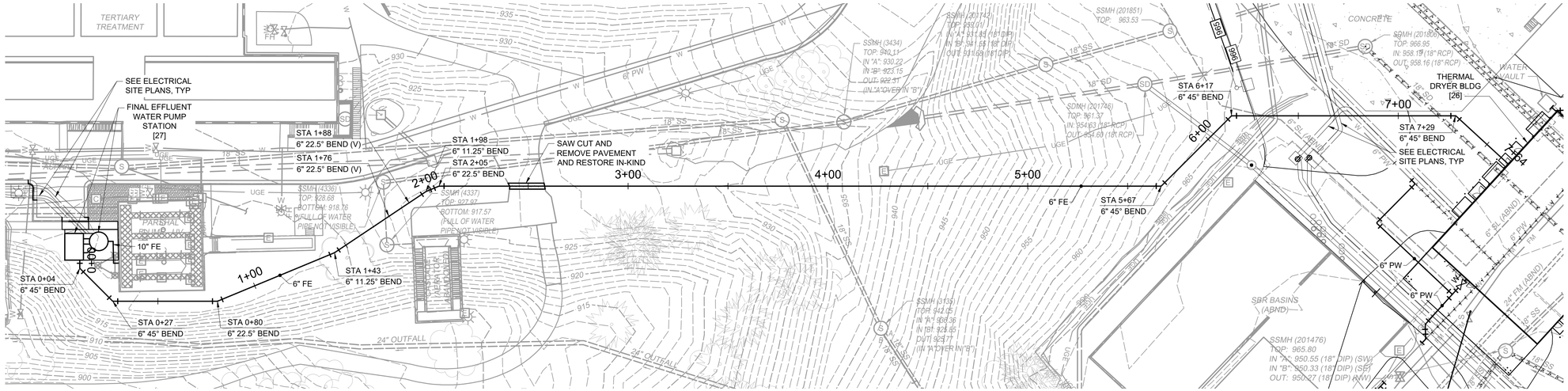
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
OVERALL YARD PIPING PLAN

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-C-401

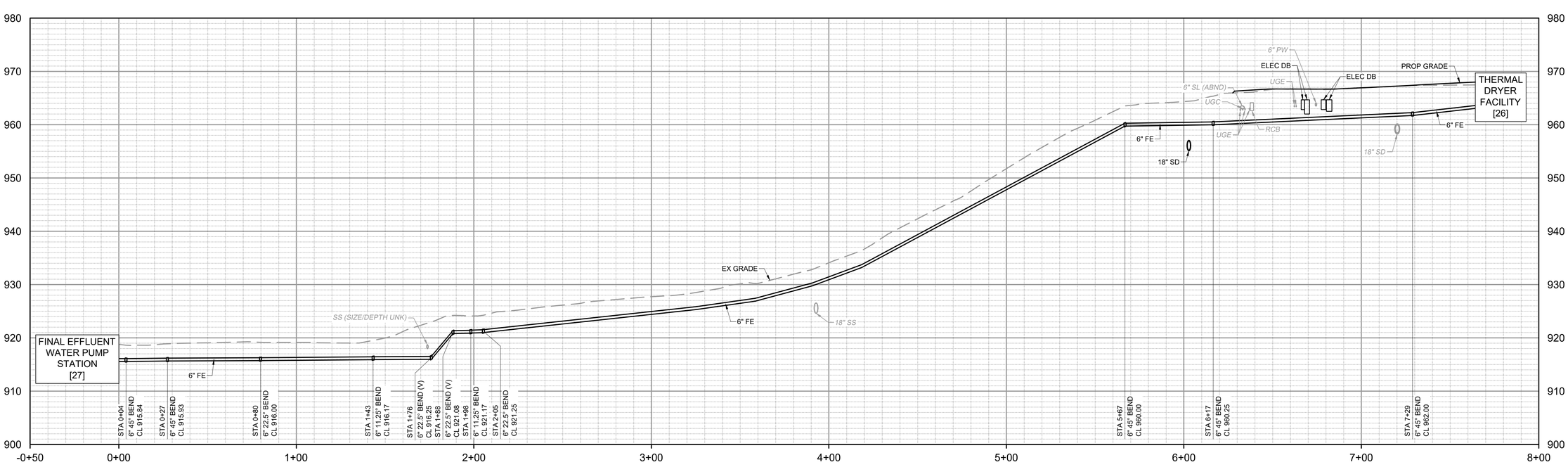
File: C:_DC\ACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-401 Saved by MSEEBOLD Save date: 11/4/2025 12:10 PM
PLOT DATE: 2/25/2026 9:23 AM BY: MSEEBOLD



PLAN
SCALE: 1" = 30'

NOTES:

1. CONTRACTOR SHALL ENSURE THAT 6" FE LINE IS LAID WITHOUT ANY LOCAL HIGH POINTS WHICH COULD TRAP AIR.



PROFILE
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 10'

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	M. ORR
DRAWN BY:	M. SEEBOLD
CHECKED BY:	B. JONES

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE
0 1/2" 1"

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GBPE LIC #: PEF003685 EXP: 6/30/2026

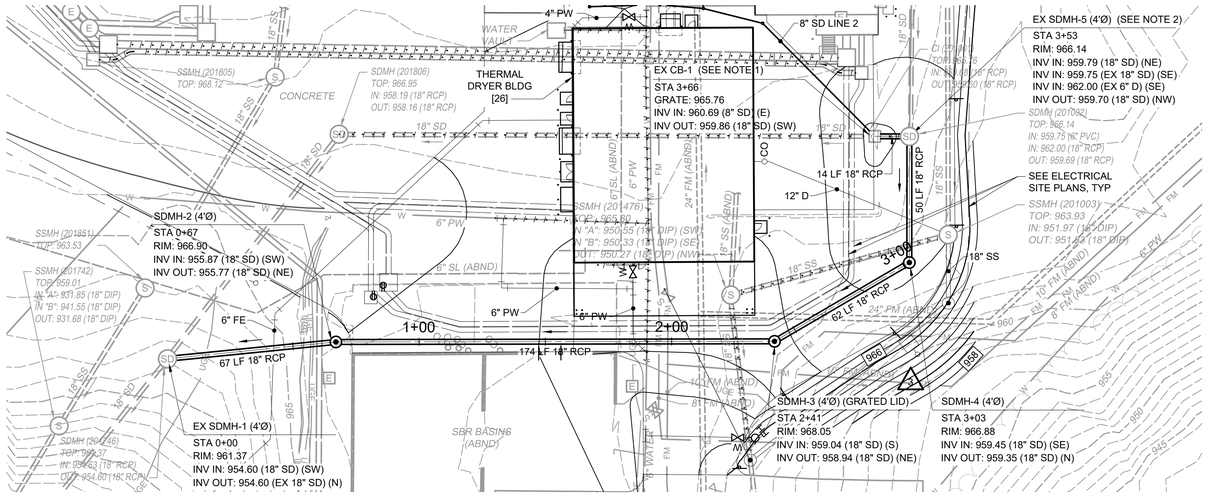
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
FE LINE 1
PLAN AND PROFILE

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA NO.:	2022_007
DRAWING NUMBER:	01-C-402

File: C:_DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-402 Saved by MSEEBOLD Save date: 10/30/2025 4:33 PM
PLOT DATE: 2/25/2026 9:24 AM BY: MSEEBOLD



PLAN
SCALE: 1" = 30'

NOTES:

1. REMOVE EXISTING HOOD. ADJUST FRAME AND GRATE ELEVATION AS NEEDED.
2. CONTRACTOR SHALL ADJUST FRAME AND LID AS NEEDED.
3. SEE CHEROKEE COUNTY STORMWATER NOTES ON DRAWING 01-C-302.
4. STRUCTURAL ANCHOR BLOCKS MUST BE PROVIDED FOR ALL STORM DRAINS TO BE INSTALLED AT OR OVER 15% SLOPE.

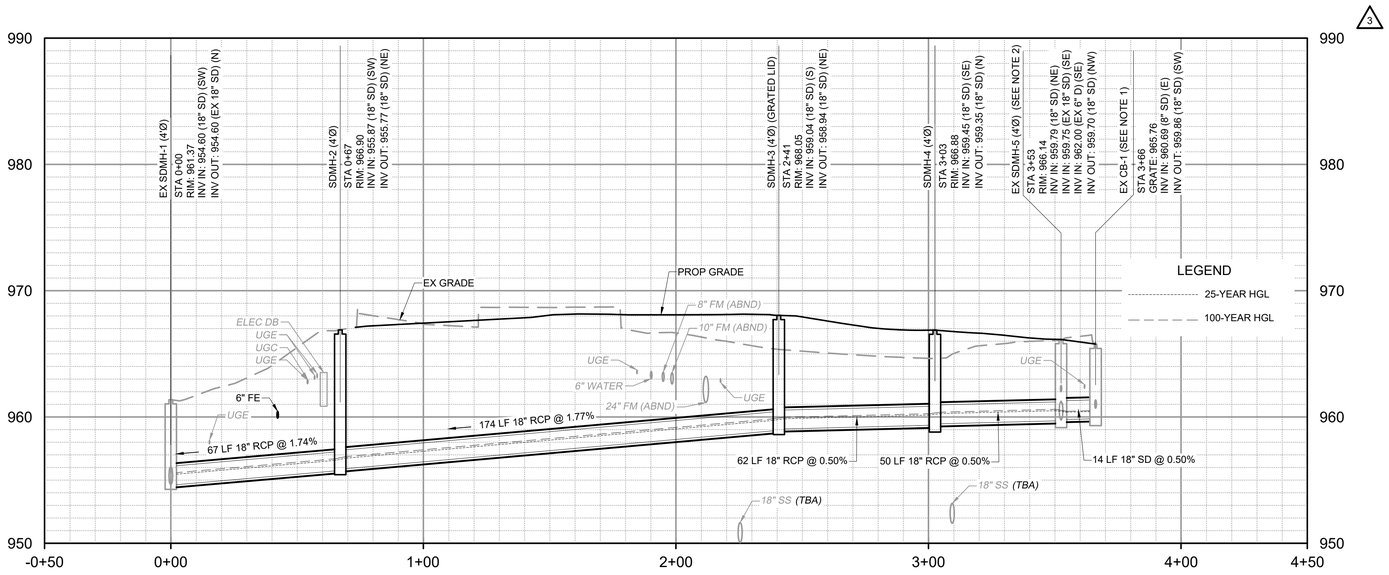
CHEROKEE COUNTY STORMWATER PIPE PROFILE NOTES:

1. ANY STRUCTURE PLACED COMPLETELY WITHIN FILL MUST HAVE 98% STANDARD PROCTOR COMPACTION.
2. ALL METAL PIPE SHALL BE FULLY COATED OR ALUMINIZED.
3. ANY STRUCTURE PLACED COMPLETELY WITHIN FILL MUST HAVE 98% STANDARD PROCTOR COMPACTION.
4. ALL HDPE PIPE SHALL INCLUDE BEDDING DETAILS PER THE MANUFACTURER ON THE PLANS;INCLUDE THE FOLLOWING NOTES ON THE PROFILE SHEETS FOR HDPE PIPE.
5. HIGH-DENSITY POLYETHYLENE PIPE (HDPE) SHALL MEET AASHTO M-294 TYPE "S" WITH AN ANNULAR EXTERIOR AND SMOOTH INTERIOR. PIPE SHALL CONSIST OF A BELL AND SPIGOT JOINT INCORPORATING AN F477 GASKET TO INSURE A LEAK-TIGHT PERFORMANCE HDPE PIPE SHALL BE BACK FILLED BY CONCURRENTLY APPLYING 8" LIFTS ON EACH SIDE OF THE PIPE USING TWO (2) TAMPS (ONE FOR EACH SIDE). BACKFILL SOIL SHALL CONFORM TO CLASS II, B2 OF THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES, CURRENT EDITION. ANY MANUFACTURER'S SPECIFICATIONS FOR HDPE PIPE EXCEEDING THIS REQUIREMENTS SHALL APPLY WHERE APPLICABLE.
6. HDPE PIPE MUST CONFORM WITH CURRENT GDOT STANDARDS (STANDARD THERMOPLASTIC PIPE 1030P). ASTM F2648 PIPE IS NOT AN ACCEPTABLE SUBSTITUTION.

Hydrology Report Chart (18-Inch SD Line 1)

UPSTREAM STRUCTURE	PIPE DIAMETER/ MATERIAL	MANNING N-VALUE	PIPE SLOPE	BASIN AREA (ACRES)	25-YR INLET FLOW (CFS)	25-YR CUMULATIVE FLOW (CFS)	100-YR INLET FLOW (CFS)	100-YR CUMULATIVE FLOW (CFS)	UPSTREAM INVERT	DOWNSTREAM INVERT	25-YR WATER LEVEL (FT)	100-YR WATER LEVEL (FT)	25-YR DOWNSTREAM VELOCITY (FPS)	100-YR DOWNSTREAM VELOCITY (FPS)
EX CB-1 *	18" RCP	0.013	0.50%	0.335	1.732	2.279	2.130	2.803	959.86	959.79	0.58	0.65	1.29	1.59
EX SDMH-5	18" RCP	0.013	0.50%	N/A (Closed Lid)	N/A (Closed Lid)	5.255	N/A (Closed Lid)	6.463	959.70	959.45	0.81	0.92	2.97	3.66
SDMH-4	18" RCP	0.013	0.50%	N/A (Closed Lid)	N/A (Closed Lid)	5.255	N/A (Closed Lid)	6.463	959.35	959.04	0.81	0.92	2.97	3.66
SDMH-3	18" RCP	0.013	1.77%	0.043	0.222	5.477	0.273	6.736	958.94	955.87	0.83	0.95	3.10	3.81
SDMH-2	18" RCP	0.013	1.74%	N/A (Closed Lid)	N/A (Closed Lid)	5.477	N/A (Closed Lid)	6.736	955.77	954.60	0.83	0.95	3.10	3.81

* Cumulative flow inlcudes 8" PVC SD Line 2



PROFILE SD LINE 1
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 6'

REV	ISSUED FOR	DATE	BY
4	CONFORMED SET	03/2026	DS
3	ADDENDUM No. 1	11/2025	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: M. ORR
DRAWN BY: M. SEEBOLD
CHECKED BY: B. JONES
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

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Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

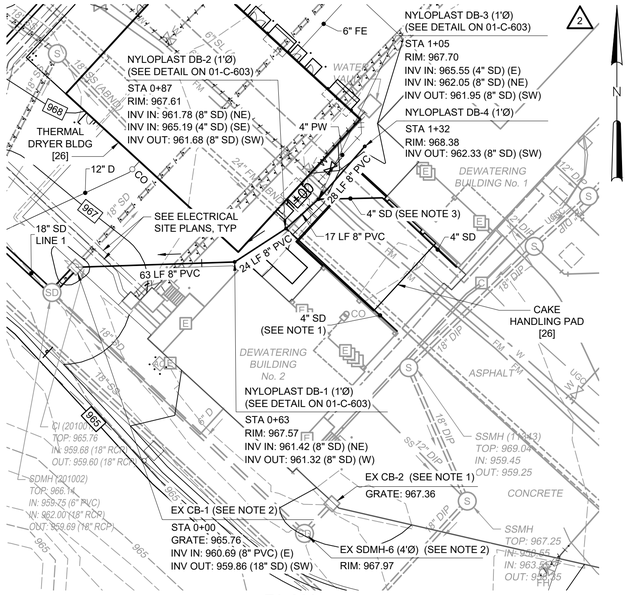
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
SD LINE 1
PLAN AND PROFILE

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-C-403

File: C:_DC\ACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-403 Saved by MSEEBOLD Save date: 2/25/2026 9:16 AM
PLOT DATE: 2/25/2026 9:24 AM BY: MSEEBOLD



PLAN

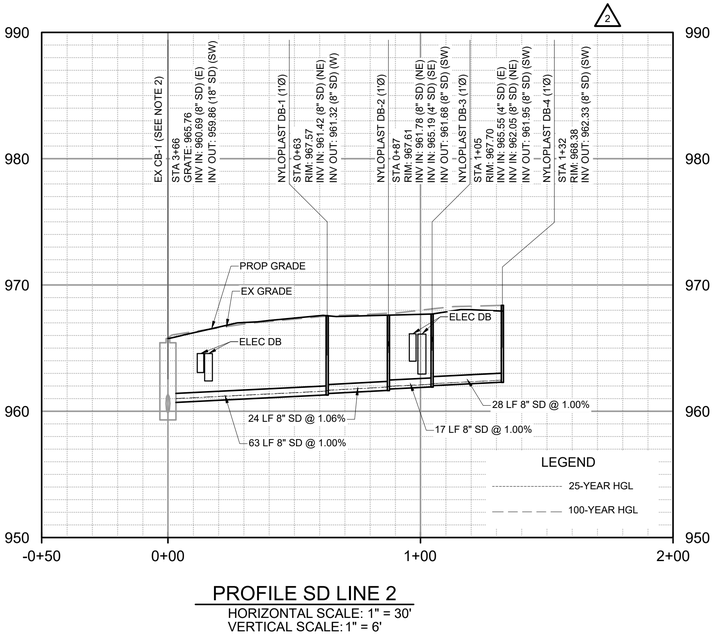
SCALE: 1" = 30'

NOTES:

1. REMOVE EXISTING HOOD. ADJUST FRAME AND GRATE ELEVATION AS NEEDED.
2. CONTRACTOR SHALL ADJUST FRAME AND LID AS NEEDED.
3. CONTRACTOR SHALL STUB UP 4" SD FOR EXISTING TRUCK LOADING GUTTER DOWNSPOUTS. CONTRACTOR SHALL PROVIDE AND CONNECT ANY NECESSARY FITTINGS AND ADAPTERS TO DOWN SPOUTS AND 4" SD.
4. SEE CHEROKEE COUNTY STORMWATER NOTES ON DRAWING 01-C-302.
5. SEE CHEROKEE COUNTY STORMWATER PIPE PROFILE NOTES ON DRAWING 01-C-403.
6. STRUCTURAL ANCHOR BLOCKS MUST BE PROVIDED FOR ALL STORM DRAINS TO BE INSTALLED AT OR OVER 15% SLOPE.

Hydrology Report Chart (8-Inch SD Line-2)

UPSTREAM STRUCTURE	PIPE DIAMETER/ MATERIAL	MANNING N-VALUE	PIPE SLOPE	BASIN AREA (ACRES)	25-YR INLET FLOW (CFS)	25-YR CUMULATIVE FLOW (CFS)	100-YR INLET FLOW (CFS)	100-YR CUMULATIVE FLOW (CFS)	UPSTREAM INVERT	DOWNSTREAM INVERT	25-YR WATER LEVEL (FT)	100-YR WATER LEVEL (FT)	25-YR DOWNSTREAM VELOCITY (FPS)	100-YR DOWNSTREAM VELOCITY (FPS)
Nyloplast DB-4	8" PVC	0.009	1.00%	0.025	0.127	0.127	0.157	0.157	962.33	962.05	0.13	0.14	0.36	0.45
Nyloplast DB-3	8" PVC	0.009	1.00%	0.026	0.133	0.260	0.164	0.320	961.95	961.78	0.18	0.20	0.75	0.92
Nyloplast DB-2	8" PVC	0.009	1.00%	0.031	0.160	0.420	0.196	0.517	961.68	961.42	0.23	0.25	1.20	1.48
Nyloplast DB-1	8" PVC	0.009	1.00%	0.025	0.127	0.547	0.156	0.673	961.32	960.69	0.27	0.29	1.57	1.93



PROFILE SD LINE 2

HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 6'

REV	ISSUED FOR	DATE	BY
4	CONFORMED SET	03/2026	DS
3	ADDENDUM No. 1	11/2025	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0, 1/2", 1")

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: M. ORR
DRAWN BY: M. SEEBOLD
CHECKED BY: B. JONES

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY DANIEL D. SEBUSCH, P.E. No. 030101 ON 11/26/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT

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ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

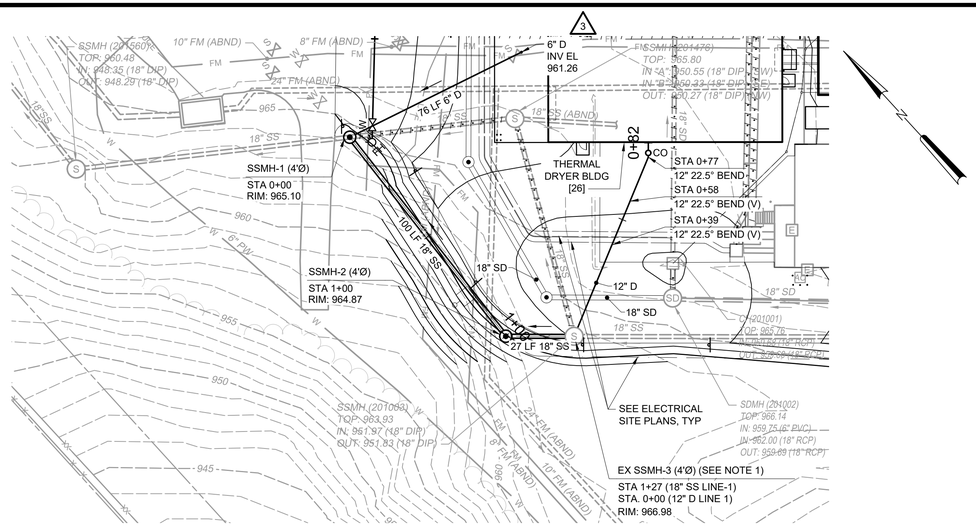
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
SD LINE 2
PLAN AND PROFILE

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-C-404

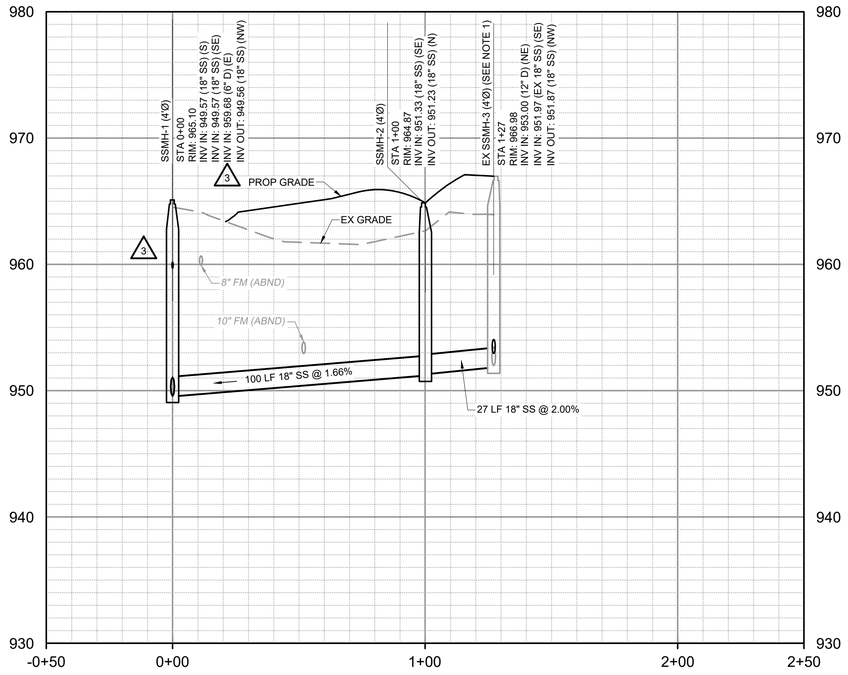
File: C:_DOCS\ACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-404 Saved by MSEEBOLD Save date: 2/25/2026 9:17 AM
PLOT DATE: 2/25/2026 9:24 AM BY: MSEEBOLD



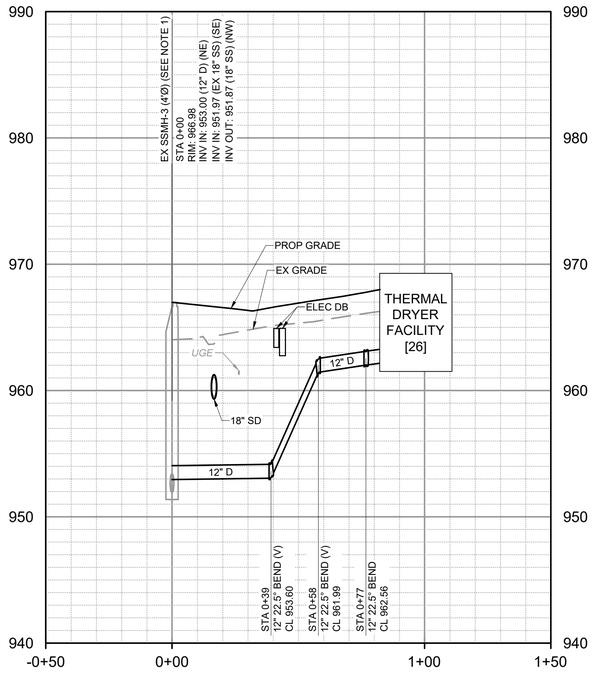
PLAN
SCALE: 1" = 30'

NOTES:

1. ADJUST EXISTING MANHOLE RIM TO PROPOSED ELEVATION AS NEEDED. SEE DETAIL S-09 ON DWG 01-C-601



PROFILE SS LINE 1
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 6'



PROFILE D LINE 1
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 6'

REV	ISSUED FOR	DATE	BY
4	CONFORMED SET	03/2026	DS
3	ADDENDUM No. 2	12/2025	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	M. ORR
DRAWN BY:	M. SEEBOLD
CHECKED BY:	B. JONES

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0 — 1/2" — 1")

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY DANIEL D. SEBUSCH, P.E. No. 030101 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

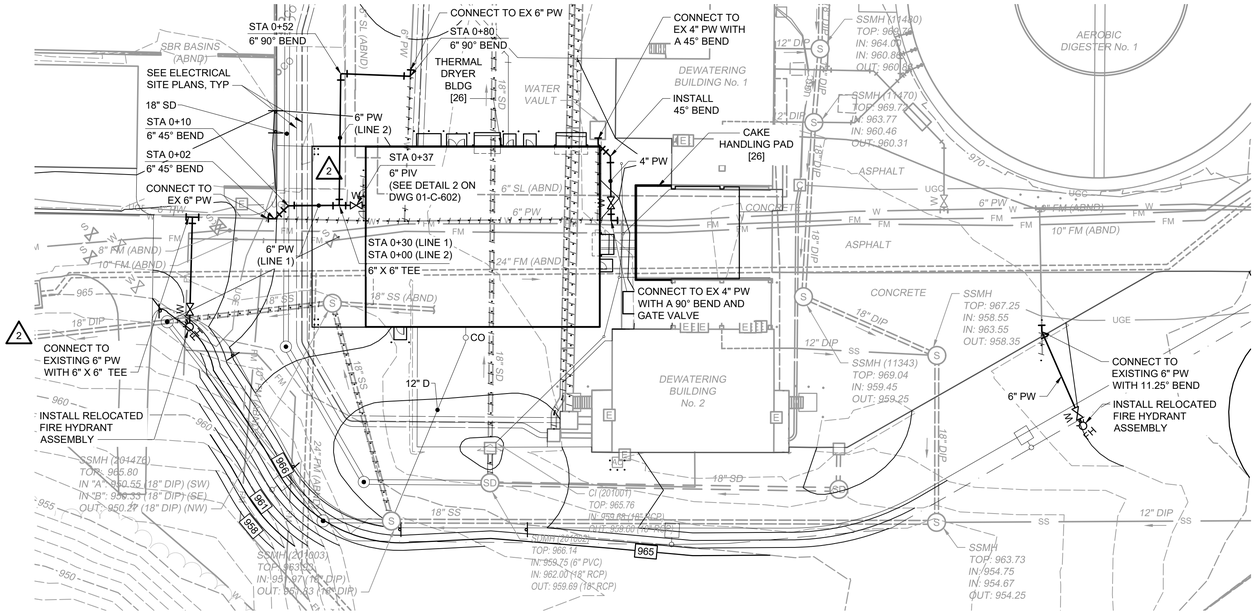
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

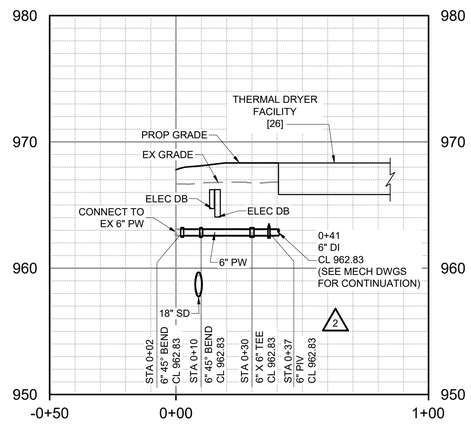
CIVIL
SS LINE 1 AND D LINE 1
PLAN AND PROFILE

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-C-405

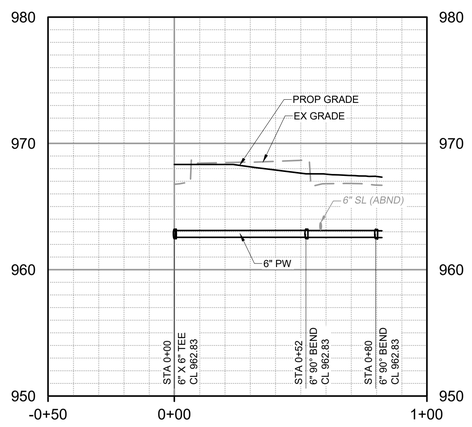
File: C:_DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-405 Saved by MSEEBOLD Save date: 2/25/2026 9:17 AM BY: MSEEBOLD
PLOT DATE: 2/25/2026 9:24 AM



PLAN
SCALE: 1" = 30'



PW LINE 1 PROFILE
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 6'



PW LINE 2 PROFILE
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 6'

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3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: M. ORR
DRAWN BY: M. SEEBOLD
CHECKED BY: B. JONES

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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
PW LINE 1
PLAN AND PROFILE

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-C-406

File: C:_DCVACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DES\GNCIVIL\32307-007-01-C-406 Saved by MSEEBOLD Save date: 2/25/2026 8:34 AM
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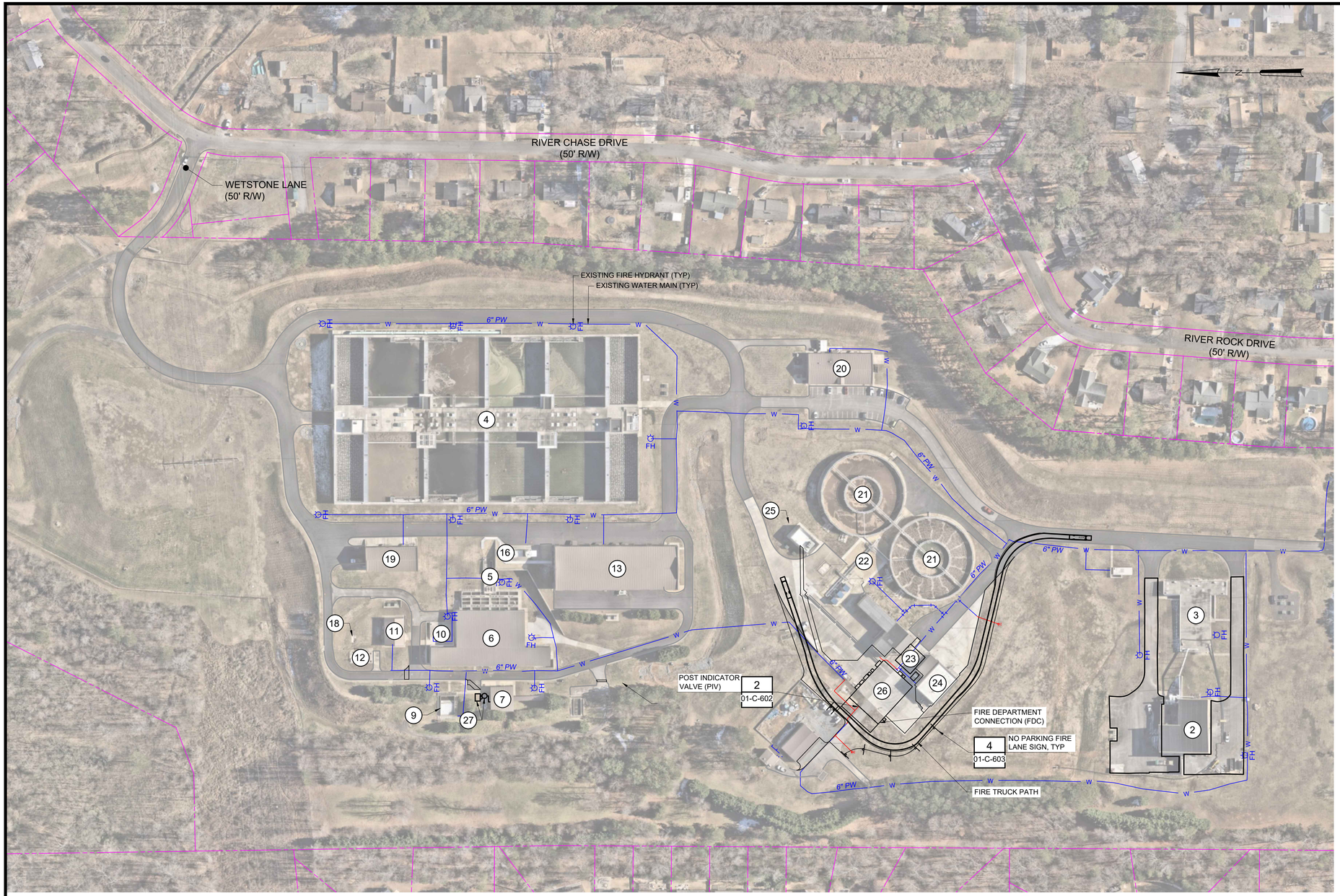

NOTES:

1. UNLESS NOTED OTHERWISE, ALL FIRE HYDRANTS ARE SERVED BY A 6" DIP WATER MAIN. THE MAIN FEED TO THE SITE IS ALSO A 6" DIP.
2. ALL HYDRANTS (NEW AND OLD) HAVE A 6" GATE VALVE WHICH MAY NOT BE SHOWN FOR CLARITY.
3. THIS PLAN IS INCOMPLIANCE WITH THE 2018 INTERNATIONAL FIRE CODE APPENDIX A AND C AND ALSO MEETS THE FIRE HYDRANT SPACING REQIREMENTS SET FORTH BY CHEROKEE COUNTY.
4. THIS PLAN IS IN COMPLIANCE WITH THE 2018 INTERNATIONAL FIRE CODE (IFC) 2020 RULES AND REGULATIONS OF THE SAFETY FIRE COMMISSIONER CHAPTER 120-3-3 RULES AND REGULATIONS FOR THE STATE MINIMUM FIRE SAFETY STANDARDS.
5. THE FOLLOWING PLANS HAVE BEEN REVIEWED BY THE CHEROKEE COUNTY FIRE MARSHAL'S OFFICE. THE DRAWINGS WERE REVIEWED UNDER THE APPLICABLE LAWS ADOPTED AT THE TIME. EVERY EFFORT WAS MADE TO ENSURE CODE COMPLIANCE. ANY CODE VIOLATIONS THAT WERE MISSED DURING THE PLAN REVIEW ARE THE OWNER'S RESPONSIBILITY AND MUST BE CORRECTED TO RECEIVE FINAL APPROVAL AND/OR A CERTIFICATE OF OCCUPANCY (CO).
6. A PRE-CONSTRUCTION MEETING, 50%, 80%, AND 100% INSPECTIONS ARE REQUIRED UNLESS AT THE PRE-CONSTRUCTION MEETING IT IS DETERMINED THAT ALL INSPECTIONS ARE REQUIRED. ALL SITE WORK MUST HAVE A MINIMUM OF A PRECONSTRUCTION MEETING WITH THE CHEROKEE COUNTY FIRE MARSHAL'S OFFICE. AT THE PRE-CONSTRUCTION MEETING, IT WILL THEN BE DETERMINED WHAT OTHER INSPECTIONS WILL BE REQUIRED. ALL FIRE INSPECTIONS ARE SCHEDULED THROUGH THE CITYVIEW PORTAL UNDER THE SAME PERMIT NUMBER AS THE BUILDING PERMIT AND LAND DISTURBANCE PERMIT. THIS MUST BE DONE BY THE CONTRACTOR.
7. FIRE HYDRANTS SHOULD BE INSTALLED SO THAT HYDRANT STEAMER CONNECTIONS ARE A MINIMUM OF 18-INCHES ABOVE GRADE OR THE BARREL FLANGE IS A MINIMUM OF 6-INCHES ABOVE THE FINISHED GRADE. THE STEAMER CONNECTION MUST FACE THE MID-LINE OF THE STREET FOR ACCESSIBILITY.
8. FIRE HYDRANTS MUST BE OPERATIONAL AND UNDER PRESSURE PRIOR TO THE BEGINNING OF COMBUSTIBLE CONSTRUCTION AS SPECIFIED IN THE INTERNATIONAL FIRE CODE.
9. WHEN LOCATED ON PRIVATE PROPERTY, A FIRE INSPECTOR MUST INSPECT FIRE PROTECTION WATER MAINS AND THRUST BLOCKING. PLEASE GO ONLINE THROUGH THE CITYVIEW PORTAL TO SCHEDULE YOUR INSPECTIONS.
10. ALL SITE WORK MUST HAVE A PRE-CONSTRUCTION MEETING. THE CHEROKEE COUNTY FIRE MARSHAL'S INSPECTION PROCESS FOR THE UNDERGROUND PRIVATE FIRE MAIN INSPECTIONS WILL BE DISCUSSED AT THE PRE-CONSTRUCTION MEETING. PLEASE GO ONLINE THROUGH THE CITYVIEW PORTAL TO SCHEDULE YOUR INSPECTIONS.
11. THE NEW THERMAL DRYER FACILITY WILL HAVE A WET SYSTEM AUTOMATIC SPRINKLER SYSTEM FOR THE DRYER PORTION OF THE BUILDING AND A FLUORINE FREE FOAM SUPPRESSION SYSTEM FOR THE THERMAL HEATER ROOM PORTION OF THE BUILDING.

CODES & STANDARDS USED FOR DESIGN:

- CHEROKEE COUNTY DEVELOPMENTAL REGULATIONS
- 2018 INTERNATIONAL FIRE CODE WITH CURRENT GEORGIA AMENDMENTS
- 2018 INTERNATIONAL BUILDING CODE WITH CURRENT GEORGIA AMENDMENTS
- 2024 NFPA 101 LIFE SAFETY CODE WITH CURRENT GEORGIA AMENDMENTS
- 2020 GEORGIA AMENDMENTS 120-3-3, STATE MINIMUM FIRE SAFETY STANDARDS [INCLUDING] 2022 RULE 120-3-3-.04 - STATE MINIMUM FIRE SAFETY STANDARDS WITH MODIFICATIONS [TO 2018 INTERNATIONAL FIRE CODE]:
  604.12 SEPARATION FROM TRANSFORMERS. SPACE SEPARATION FOR TRANSFORMERS SHALL BE AS FOLLOWS:
  (1) TRANSFORMER PAD LOCATIONS SHALL BE A MINIMUM OF 10 FEET (3 M) FROM ANY BUILDING, BUILDING OVERHANGS, CANOPIES, EXTERIOR WALLS, BALCONIES, EXTERIOR STAIRS, AND/OR WALKWAYS CONNECTED TO THE BUILDING.
  (2) TRANSFORMER PAD EDGES SHALL BE NOT LESS THAN 14 FEET (4.3 M) FROM ANY DOORWAY.
  (3) TRANSFORMER PAD EDGES SHALL BE NOT LESS THAN 10 FEET (3 M) FROM ANY WINDOW OR OTHER OPENING.
  (4) IF THE BUILDING HAS AN OVERHANG, THE 10 FOOT (3 M) CLEARANCE SHALL BE MEASURED FROM A POINT BELOW THE EDGE OF THE OVERHANG ONLY IF THE BUILDING IS THREE STORIES OR LESS. IF THE BUILDING IS FOUR STORIES OR MORE, THE 10 FOOT (3 M) CLEARANCE SHALL BE MEASURED FROM THE OUTSIDE BUILDING WALL.
  (5) FIRE ESCAPES, OUTSIDE STAIRS, AND COVERED WALKWAYS ATTACHED TO OR BETWEEN BUILDINGS SHALL BE CONSIDERED AS PART OF THE BUILDING.

  [604.]12.1 TRANSFORMER PADS MAY BE LOCATED CLOSER TO NONCOMBUSTIBLE WALLS THAN THE ABOVE REQUIRED MINIMUM CLEARANCES IN 605.12 (1) UPON WRITTEN APPROVAL OF THE AUTHORITY HAVING JURISDICTION, HOWEVER, IN NO CASE SHALL THE TRANSFORMER LOCATION BE LESS THAN 3 FEET (0.9 M) FROM THE BUILDING.

- USE AND OCCUPANCY CLASSIFICATION:
  LSC = GENERAL INDUSTRIAL OCCUPANCY
  IBC = F2 LOW-HAZARD FACTORY INDUSTRIAL
- CONSTRUCTION TYPE:
  LSC = TYPE II (000)
  IBC = TYPE II-B
- IBC BUILDING HEIGHT (FEET) = 31'-7" (ALLOWED 55 FT)
- IBC BUILDING AREA = 6,611 SF (ALLOWED 23,000 SF)

PLAN
SCALE: 1" = 100'

LEGEND

EXISTING FIRE HYDRANT	
NEW FIRE HYDRANT	
EXISTING WATER MAIN	W
NEW WATER MAIN	

FACILITY LEGEND

2	HEADWORKS	11	COMPRESSOR BUILDING
3	INFLUENT EQUALIZATION BASIN	12	PLANT DRAIN PUMP STATION
4	BIOLOGICAL TREATMENT	13	CHEMICAL - ELECTRICAL - BLOWER BUILDING
5	FLOW CONTROL VAULT	16	LIQUID LIME
6	TERTIARY TREATMENT	18	MISCELLANEOUS VAULTS
7	PARSHALL FLUME - UV	19	MAINTENANCE BUILDING
9	CASCADE AERATION	20	CONTROL BUILDING
10	CHEMICAL SLUDGE PUMP STATION	21	AEROBIC DIGESTERS
		22	AEROBIC DIGESTER BLOWER FACILITY
		23	DEWATERING BUILDING No. 1
		24	DEWATERING BUILDING No. 2
		25	SOLIDS ELECTRICAL BUILDING
		26	THERMAL DRYER FACILITY AND CAKE HANDLING PAD
		27	FINAL EFFLUENT WATER PUMP STATION

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PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: M. ORR
DRAWN BY: M. SEEBOLD
CHECKED BY: B. JONES
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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
YARD PIPING PLAN - FIRE PROTECTION

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-C-407

File: C:_DC\ACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-407 Saved by MSEEBOLD Save date: 2/25/2026 9:18 AM
PLOT DATE: 2/25/2026 9:25 AM BY: MSEEBOLD

SOIL SYMBOL	SOIL NAME, DESCRIPTION
Chc	CHEWACLA-CARTECAY COMPLEX
GdD3	GWINNETT SANDY CLAY LOAM, 6 TO 15 PERCENT SLOPES, SEVERELY ERODED
GgB2	GWINNETT LOAM, 2 TO 6 PERCENT SLOPES, ERODED
HJC3	HAYESVILLE SANDY CLAY LOAM, 10 TO 25 PERCENT SLOPES, SEVERELY ERODED
HIE	HAYESVILLE FINE SANDY LOAM, 10 TO 25 PERCENT SLOPES
HYC	HELENA SANDY LOAM, 2 TO 10 PERCENT SLOPES
MCE	MUSELLA COBBLY LOAM, 10 TO 25 PERCENT SLOPES
MjB	MADISON FINE SANDY LOAM, 2 TO 6 PERCENT SLOPES
W	WATER
Wht	WEHADKEE LOAM

TRIBUTARY L CENTERLINE
LIMITS OF TRIBUTARY L FLOODWAY
TRIBUTARY L
1% ANNUAL CHANCE FLOOD HAZARD BOUNDARY (ZONE AE), APPROX FLOOD EL = 882.8 FT
0.2% ANNUAL CHANCE FLOOD HAZARD BOUNDARY (ZONE X)
EX WATER QUALITY POND
1% ANNUAL CHANCE FLOOD HAZARD BOUNDARY (ZONE AE), APPROX FLOOD EL = 883 FT
1% ANNUAL CHANCE FLOOD HAZARD BOUNDARY (ZONE AE), APPROX FLOOD EL = 882.4 FT
0.2% ANNUAL CHANCE FLOOD HAZARD BOUNDARY (ZONE X)
75' IMPERVIOUS SURFACE SETBACK BUFFER
150' LITTLE RIVER BUFFER
50' UNDISTURBED CHEROKEE COUNTY BUFFER
25' UNDISTURBED STATE WATER BUFFER
LITTLE RIVER CENTERLINE
LIMITS OF LITTLE RIVER FLOODWAY
LITTLE RIVER
MCE
Chc
GdD3
MjB
Wht
W
GgB2
HIE
WM

PLAN
SCALE: 1" = 100'

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1	BID	10/2025	DS

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PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	D. SEBUSCH
DRAWN BY:	M. SEEBOLD
CHECKED BY:	B. JONES

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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
EROSION, SEDIMENTATION & POLLUTION CONTROL
OVERALL PLAN

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA NO.:	2022_007
DRAWING NUMBER:	01-C-501

File: C:_DCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-501 Saved by DSEBUSCH Save date: 10/6/2025 3:13 PM
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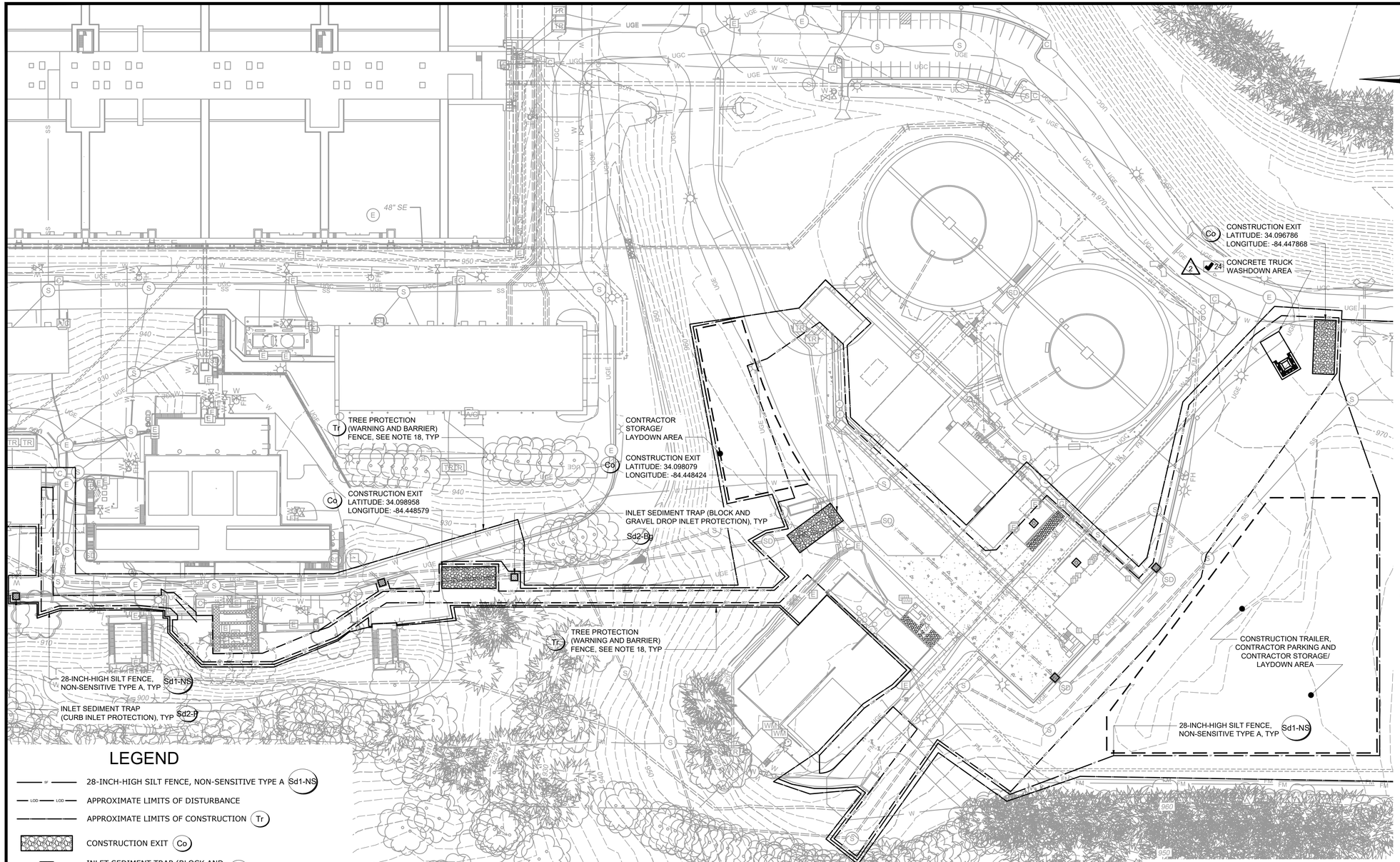

LEGEND

- 28-INCH-HIGH SILT FENCE, NON-SENSITIVE TYPE A (Sd1-NS)
- APPROXIMATE LIMITS OF DISTURBANCE
- APPROXIMATE LIMITS OF CONSTRUCTION (Tr)
- CONSTRUCTION EXIT (Co)
- INLET SEDIMENT TRAP (BLOCK AND GRAVEL DROP INLET PROTECTION) (Sd2-Bg)
- INLET SEDIMENT TRAP (CURB INLET PROTECTION) (Sd2-I)
- Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
- Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
- Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING)
- Du DUST CONTROL ON DISTURBED AREAS
- Ss SLOPE STABILIZATION
- Su SURFACE ROUGHENING

PLAN
SCALE: 1" = 50'

NOTES:

1. ALL EROSION, SEDIMENTATION, AND POLLUTION CONTROL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2016 EDITION (OR LATEST UPDATE) OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA (THE "GREEN BOOK") ADOPTED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AND SPECIFICATION SECTION 31 25 00 - EROSION AND SEDIMENTATION CONTROL. SEE DRAWING 01-C-507 FOR SELECT BMP DETAILS FROM THE "GREEN BOOK".
2. REFER TO GEORGIA UNIFORM CODING SYSTEM ON DRAWING 01-C-505 FOR SYMBOLS LEGEND.
14 3. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT **AND CERTIFY** THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION.
15 4. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
17 5. AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
18 6. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
19 7. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
20 8. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
21 9. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
10. THE LIMITS OF CONSTRUCTION ON THE PROJECT SITE ARE NOT LOCATED WITHIN A 100-YEAR FLOODPLAIN, FLOODWAY AREA, OR OTHER FLOOD AREA. THE SOURCE OF INFORMATION IS FEMA FIRM PANEL 352 FOR CHEROKEE COUNTY, GEORGIA AND INCORPORATED AREAS (MAP NUMBER 13057C0352E), REVISED JUNE 7, 2019.
11. STATE WATERS DO NOT EXIST WITHIN 200 FEET OF THE LIMITS OF CONSTRUCTION ON THE PROJECT SITE.
12. TOTAL PROJECT ACRES = 8.33 ACRES.
2 13. TOTAL DISTURBED ACRES = 2.59 ACRES (PHASE I = 0.16 ACRE, PHASE II = 2.59 ACRES, PHASE III = 2.36 ACRES). THIS DISTURBED ACREAGE INCLUDES A 2.5-FOOT-WIDE STRIP ALONG ALL SILT FENCE SHOWN FOR ITS INSTALLATION.
14. SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME.
15. THE RECEIVING WATER IS LITTLE RIVER, AND DISCHARGE IS RECEIVED THROUGH A MS4 OPERATED BY CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY. THE REACH OF LITTLE RIVER INTO WHICH THE MS4 DISCHARGES IS CLASSIFIED AS AN IMPAIRED (NOT SUPPORTING) RIVER (E COLI) PER GEORGIA'S 2024 303(d) LIST. LITTLE RIVER IS NOT A TROUT STREAM BUT IS A WATER SUPPORTING WARM WATER FISHERIES AND ULTIMATELY DISCHARGES INTO LAKE ALLATOONA.
16. TOTAL WETLAND ACRES WITHIN THE LIMITS OF CONSTRUCTION ON THE PROJECT SITE ARE 0.00 ACRES.
17. THE TOPOGRAPHY OF THE SITE, LOCATION OF THE WORK, AND LOCATIONS OF ADDITIONAL SITE CONSIDERATIONS LIMIT THE ABILITY TO EFFECTIVELY INCORPORATE A TEMPORARY SEDIMENTATION BASIN TO TREAT SEDIMENT POLLUTION. TO MEET THE GOALS OF LIMITING SEDIMENT POLLUTION, THE SEDIMENT CONTROL PROGRAM WILL BE EXECUTED BY THE CONTRACTOR TO LIMIT LAND DISTURBANCE ACTIVITY TO SPECIFIED LOCATIONS UNTIL THE WORK IS COMPLETE AND THE AREA IS STABILIZED BEFORE MOVING TO THE NEXT AREA OF DISTURBANCE.
18. TREE PROTECTION (WARNING AND BARRIER) FENCE IN ACCORDANCE WITH SPECIFICATION SECTION 31 10 00 - CLEARING, GRUBBING, AND SITE PREPARATION SHALL BE PROVIDED ALONG ALL LIMITS OF CONSTRUCTION, EXCEPT FOR THE PORTIONS OF THE LIMITS OF CONSTRUCTION THAT CROSS EXISTING PAVEMENT.

2 ALL 11/2025 REVISIONS MADE TO THIS SHEET WERE REQUESTED BY CHEROKEE COUNTY FOR THE STATE EROSION CONTROL PORTION OF THEIR REVIEW FOR A LAND DISTURBANCE PERMIT. (8)

SEDIMENT STORAGE CALCULATIONS: (49)

TOTAL SILT FENCE TO BE INSTALLED = 2,798 LF

11.8 CY OF STORAGE PER 100 LF OF SILT FENCE

(2,798 LF/100 LF) * 11.8 CY = 331 CY OF STORAGE

TOTAL DISTURBED AREA = 2.59 ACRES x 67 CY/AC

TOTAL STORAGE REQUIRED = 174 CY

TOTAL STORAGE PROVIDED = 331 CY, SITE DOES COMPLY WITH GEORGIA EROSION CONTROL CRITERIA.

JUSTIFICATION: A TEMPORARY SEDIMENT BASIN IS NOT ATTAINABLE, AND EQUIVALENT CONTROLS (I.E., SILT FENCE) ARE BEING USED FOR SEDIMENT STORAGE DUE TO THE NATURE OF THE WORK.

GSWCC Georgia Soil and Water Conservation Commission
Daniel D Sebusch
Level II Certified Design Professional
CERTIFICATION NUMBER 0000054172
ISSUED: 06/25/2023 EXPIRES: 06/25/2026

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CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY DANIEL D. SEBUSCH, P.E. No. 030101 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

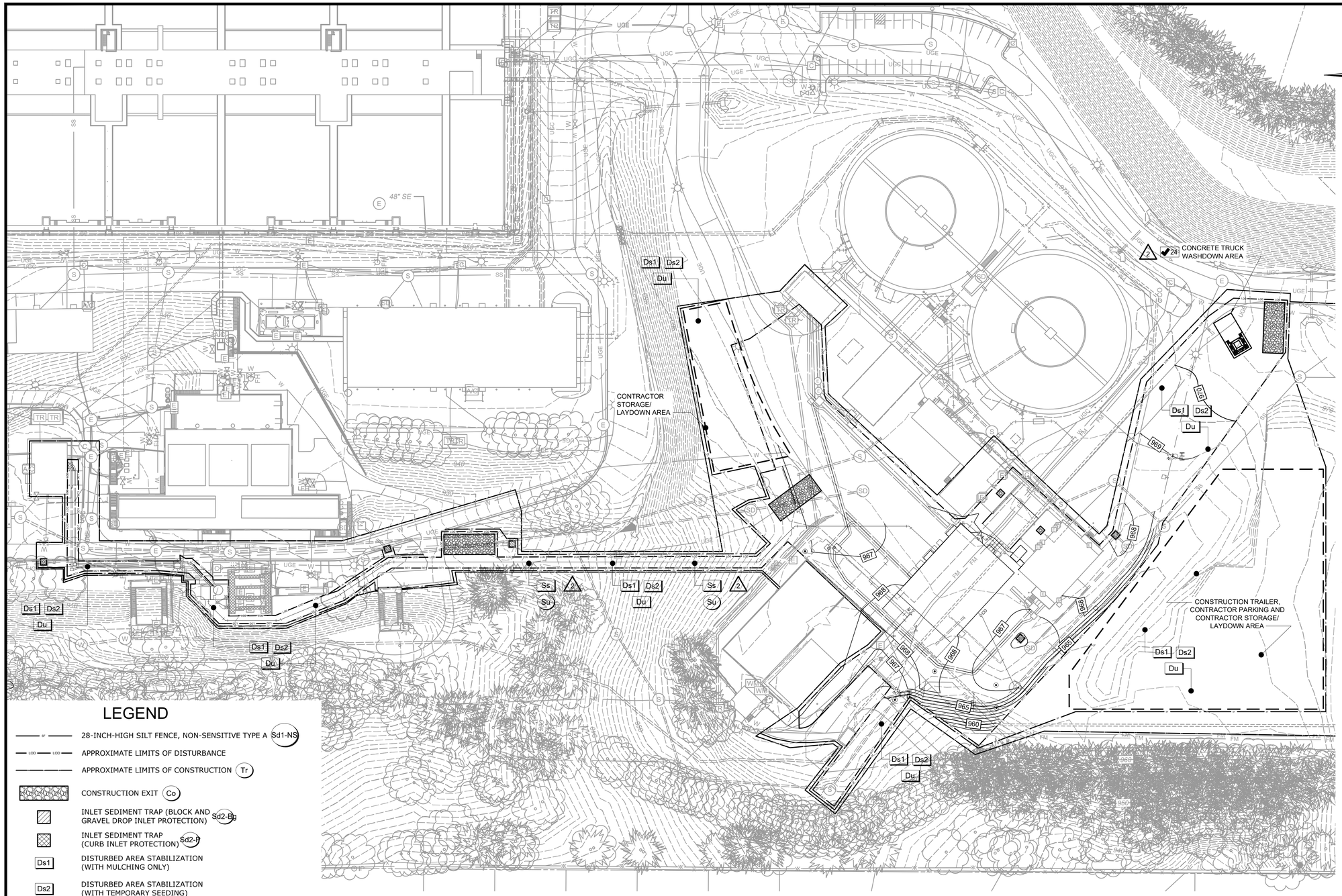
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN
PHASE I

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-C-502

File: C:_DC\ACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-502 Saved by MSEEBOLD Save date: 2/25/2026 8:16 AM
PLOT DATE: 2/25/2026 9:25 AM BY: MSEEBOLD



LEGEND

- 28-INCH-HIGH SILT FENCE, NON-SENSITIVE TYPE A (Sd1-NS)
- APPROXIMATE LIMITS OF DISTURBANCE
- APPROXIMATE LIMITS OF CONSTRUCTION (Tr)
- CONSTRUCTION EXIT (Co)
- INLET SEDIMENT TRAP (BLOCK AND GRAVEL DROP INLET PROTECTION) (Sd2-Bg)
- INLET SEDIMENT TRAP (CURB INLET PROTECTION) (Sd2-P)
- Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
- Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
- Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING)
- Du DUST CONTROL ON DISTURBED AREAS
- Ss SLOPE STABILIZATION
- Su SURFACE ROUGHENING

PLAN
SCALE: 1" = 50'

2 ✔8 ALL 11/2025 REVISIONS MADE TO THIS SHEET WERE REQUESTED BY CHEROKEE COUNTY FOR THE STATE EROSION CONTROL PORTION OF THEIR REVIEW FOR A LAND DISTURBANCE PERMIT.

NOTES:

1. ALL EROSION, SEDIMENTATION, AND POLLUTION CONTROL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2016 EDITION (OR LATEST UPDATE) OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA (THE "GREEN BOOK") ADOPTED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AND SPECIFICATION SECTION 31 25 00 - EROSION AND SEDIMENTATION CONTROL. SEE DRAWING 01-C-507 FOR SELECT BMP DETAILS FROM THE "GREEN BOOK".
2. REFER TO GEORGIA UNIFORM CODING SYSTEM ON DRAWING 01-C-505 FOR SYMBOLS LEGEND.
3. ✔14 THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT **AND CERTIFY** THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION.
4. ✔15 NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
5. ✔17 AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
6. ✔18 WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
7. ✔19 THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
8. ✔20 EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
9. ✔21 ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
10. THE LIMITS OF CONSTRUCTION ON THE PROJECT SITE ARE NOT LOCATED WITHIN A 100-YEAR FLOODPLAIN, FLOODWAY AREA, OR OTHER FLOOD AREA. THE SOURCE OF INFORMATION IS FEMA FIRM PANEL 352 FOR CHEROKEE COUNTY, GEORGIA AND INCORPORATED AREAS (MAP NUMBER 13057C0352E), REVISED JUNE 7, 2019.
11. STATE WATERS DO NOT EXIST WITHIN 200 FEET OF THE LIMITS OF CONSTRUCTION ON THE PROJECT SITE.
12. TOTAL PROJECT ACRES = 8.33 ACRES.
13. 2 TOTAL DISTURBED ACRES = 2.59 ACRES (PHASE I = 0.16 ACRE, PHASE II = 2.59 ACRES, PHASE III = 2.36 ACRES). THIS DISTURBED ACREAGE INCLUDES A 2.5-FOOT-WIDE STRIP ALONG ALL SILT FENCE SHOWN FOR ITS INSTALLATION.
14. SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME.
15. THE RECEIVING WATER IS LITTLE RIVER, AND DISCHARGE IS RECEIVED THROUGH A MS4 OPERATED BY CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY. THE REACH OF LITTLE RIVER INTO WHICH THE MS4 DISCHARGES IS CLASSIFIED AS AN IMPAIRED (NOT SUPPORTING) RIVER (E COLI) PER GEORGIA'S 2024 303(d) LIST. LITTLE RIVER IS NOT A TROUT STREAM BUT IS A WATER SUPPORTING WARM WATER FISHERIES AND ULTIMATELY DISCHARGES INTO LAKE ALLATOONA.
16. TOTAL WETLAND ACRES WITHIN THE LIMITS OF CONSTRUCTION ON THE PROJECT SITE ARE 0.00 ACRES.
17. THE TOPOGRAPHY OF THE SITE, LOCATION OF THE WORK, AND LOCATIONS OF ADDITIONAL SITE CONSIDERATIONS LIMIT THE ABILITY TO EFFECTIVELY INCORPORATE A TEMPORARY SEDIMENTATION BASIN TO TREAT SEDIMENT POLLUTION. TO MEET THE GOALS OF LIMITING SEDIMENT POLLUTION, THE SEDIMENT CONTROL PROGRAM WILL BE EXECUTED BY THE CONTRACTOR TO LIMIT LAND DISTURBANCE ACTIVITY TO SPECIFIED LOCATIONS UNTIL THE WORK IS COMPLETE AND THE AREA IS STABILIZED BEFORE MOVING TO THE NEXT AREA OF DISTURBANCE.
18. TREE PROTECTION (WARNING AND BARRIER) FENCE IN ACCORDANCE WITH SPECIFICATION SECTION 31 10 00 - CLEARING, GRUBBING, AND SITE PREPARATION SHALL BE PROVIDED ALONG ALL LIMITS OF CONSTRUCTION, EXCEPT FOR THE PORTIONS OF THE LIMITS OF CONSTRUCTION THAT CROSS EXISTING PAVEMENT.

GSWCC Georgia Soil and Water Conservation Commission

Daniel D Sebusch
Level II Certified Design Professional
CERTIFICATION NUMBER 0000054172
ISSUED: 06/25/2023 EXPIRES: 06/25/2026

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	D. SEBUSCH
DRAWN BY:	M. SEEBOLD
CHECKED BY:	B. JONES

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

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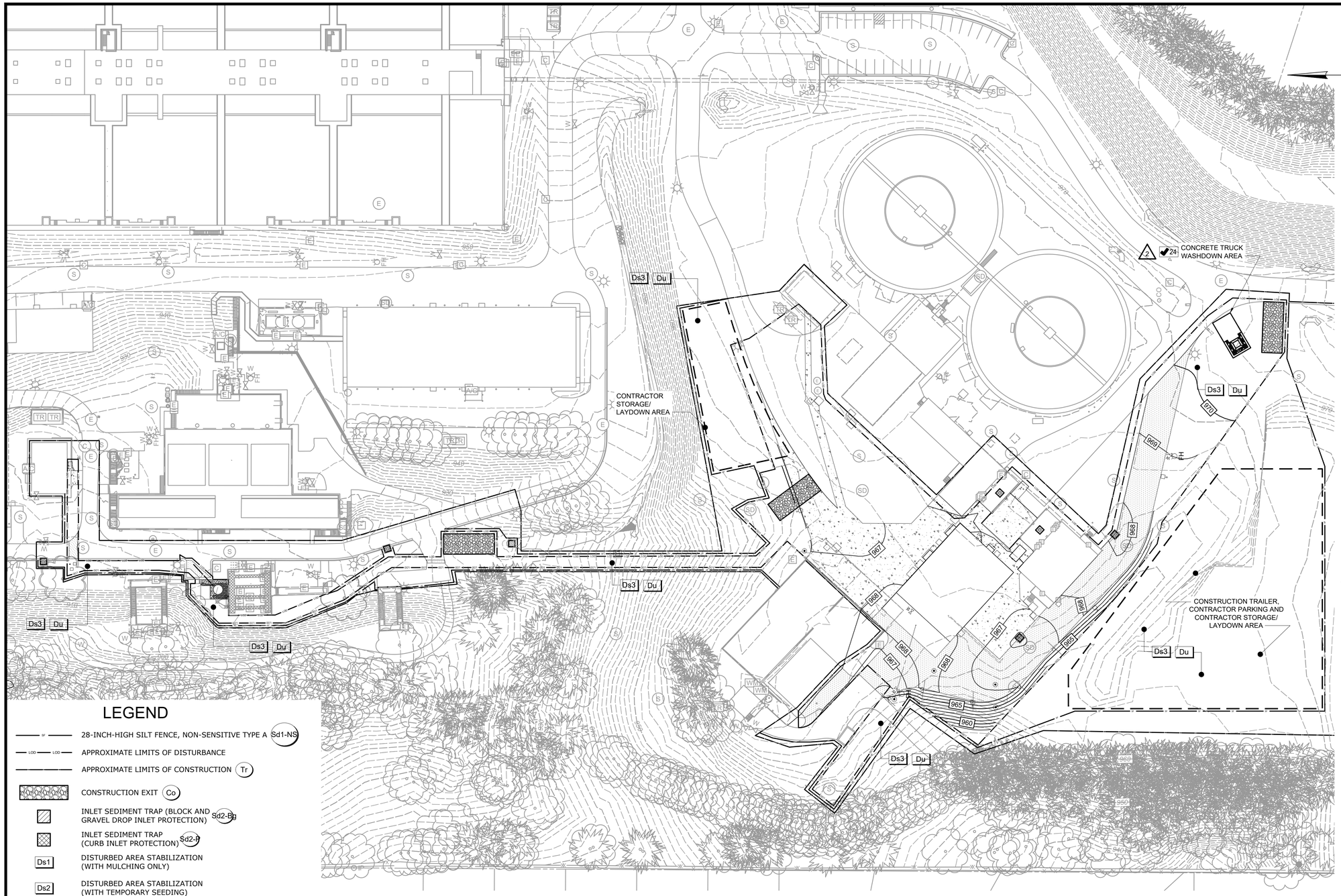
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN
PHASE II

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA NO.:	2022_007
DRAWING NUMBER:	01-C-503

File: C:_DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-503 Saved by MSEEBOLD Save date: 2/25/2026 8:17 AM
PLOT DATE: 2/25/2026 9:25 AM BY: MSEEBOLD



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PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: M. ORR
DRAWN BY: M. SEEBOLD
CHECKED BY: B. JONES
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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN
PHASE III

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-C-504

File: C:_DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-504 Saved by MSEEBOLD Save date: 2/25/2026 8:19 AM
PLOT DATE: 2/25/2026 9:25 AM BY: MSEEBOLD

CERTIFICATIONS

DESIGN PROFESSIONAL

12 1. I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

13 2. I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT No. GAR 100001.

C:\Documents\ESS Blue Electronic Signature for Drawings.png

DANIEL D SEBUSCH

GSWCC LEVEL II CERTIFIED DESIGN PROFESSIONAL #0000054172

2

PRIMARY PERMITTEE

I CERTIFY THAT THE RECEIVING WATER(S) OR THE OUTFALL(S) OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S) WILL BE MONITORED IN ACCORDANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN.

OPERATOR'S PRINTED NAME: _____

SIGNATURE: _____ DATE: _____

EROSION CONTROL NOTES

6 1. TOTAL PROJECT AREA: 8.33 ACRES
DISTURBED PROJECT AREA, TOTAL: 2.59 ACRES (PHASE I = 0.16 ACRE, PHASE II = 2.59 ACRES, PHASE III = 2.36 ACRES) 2

7 2. GPS LOCATION OF CONSTRUCTION EXITS FOR SITE: SEE DRAWING 01-C-502

47 3. SOILS TYPE: AS PER NRCS WEB SOIL SURVEY, SOIL TYPES FOR THIS PROJECT ARE DELINEATED ON DRAWING 01-C-501. A SOIL TYPE LEGEND, WITH DESCRIPTIONS, IS PROVIDED ON DRAWING 01-C-501.

42 4. TOTAL WETLAND ACRES WITHIN THE LIMITS OF CONSTRUCTION ON THE PROJECT SITE ARE 0.00 ACRES.

41 5. STATE WATERS DO NOT EXIST WITHIN 200 FEET OF THE LIMITS OF CONSTRUCTION ON THE PROJECT SITE.

16 6. BUFFER ENCROACHMENTS: THE CONSTRUCTION OF THIS PROJECT DOES NOT IMPACT THE 25-FOOT UNDISTURBED STATE WATER BUFFER, 50-FOOT UNDISTURBED CHEROKEE COUNTY BUFFER, OR 150-FOOT LITTLE RIVER BUFFER, NOR DOES IT REQUIRE A GAEPD STREAM BUFFER VARIANCE PERMIT PER GAC RULE 391-3-7.05(1)(a) AND (b).

45 7. BASED UPON PROPOSED CHANGES AND MODELING RESULTS, THE DIFFERENCE BETWEEN EXISTING AND PROPOSED CONDITIONS CURVE NUMBERS ARE NEGLIGIBLE POST CONSTRUCTION DETENTION IS NOT REQUIRED AS LESS THAN 5,000 SF OF IMPERVIOUS SURFACE IS BEING ADDED TO SITE.

8. NO SIGNIFICANT TOPOGRAPHIC CHANGES ARE EXPECTED FOR THE PROPOSED PROJECT; PROPOSED GRADING AND DRAINAGE WILL MAINTAIN THE EXISTING GENERAL DRAINAGE PATTERN AROUND THE EXISTING STRUCTURES/FACILITIES ON SITE. THE STORMWATER FACILITIES SHALL BE PROTECTED FROM SEDIMENT AND EROSION DURING CONSTRUCTION ACTIVITIES.

49 9. INCORPORATION OF A CENTRALIZED SEDIMENT STORAGE BASIN TO ADEQUATELY TREAT SEDIMENT POLLUTION IS INFEASIBLE GIVEN THE TOPOGRAPHY OF THE PROJECT SITE LIMITS AND THE NATURE OF LAND DISTURBANCE ACTIVITIES. TO MEET THE GOALS OF LIMITING SEDIMENT POLLUTION, THE SEDIMENT CONTROL PROGRAM WILL BE EXECUTED BY THE CONTRACTOR ACCORDING TO THE SPECIFICATIONS HEREIN WHILE LIMITING THE EXTENT OF LAND DISTURBANCE.

11 10. RECEIVING WATERS AND SENSITIVE AREAS: THE RECEIVING WATER FOR THIS PROJECT IS LITTLE RIVER, WHICH IS DESIGNATED AS IMPAIRED (NOT SUPPORTING) ACCORDING TO THE 2024 GAEPD 305(B)/303(D) LIST UNDER CATEGORY 4A FOR E COLI. A TMDL FOR BACTERIA WAS DEVELOPED FOR THIS STREAM SEGMENT IN 2009 (BACTERIA INDICATOR SUPPLEMENT 2022). SINCE THE CRITERIA VIOLATED/CAUSE FOR THIS IMPAIRED STREAM SEGMENT ARE NOT BIO F OR BIO M, THE ADDITIONAL MEASURES FOR DISCHARGING TO AN IMPAIRED WATER BODY PER GSWCC PART III.C DO NOT APPLY.
22
23

PROJECT NARRATIVE

9 THE THERMAL DRYER FACILITY PROJECT IS LOCATED IN WOODSTOCK, GEORGIA, WITHIN THE PROPERTY LIMITS OF FITZGERALD CREEK WATER POLLUTION CONTROL PLANT. STATE WATERS DO NOT EXIST WITHIN 200 FEET OF THE LIMITS OF CONSTRUCTION ON THE PROJECT SITE. LITTLE RIVER IS LOCATED ADJACENT TO THE NORTHERN PROPERTY BOUNDARY. THE PROJECT CONSISTS OF CONSTRUCTION OF A NEW THERMAL DRYER FACILITY AND FINAL EFFLUENT WATER PUMP STATION; ASSOCIATED MODIFICATIONS TO THE EXISTING SOLIDS ELECTRICAL BUILDING, EXISTING COMPRESSOR BUILDING, AND EXISTING DEWATERING BUILDING NO. 1 AND NO. 2; ASSOCIATED SITE WORK, INCLUDING SITE CIVIL, SITE PIPING, STORMWATER CONTROL, AND SITE ELECTRICAL WORK; ASSOCIATED STRUCTURAL WORK FOR NEW AND EXISTING FACILITIES; AND ASSOCIATED ELECTRICAL AND INSTRUMENTATION AND CONTROLS FOR NEW AND EXISTING FACILITIES.

26 TEN (10) TYPES OF VEGETATIVE AND STRUCTURAL EROSION CONTROL PRACTICES WILL BE UTILIZED IN THE CONSTRUCTION OF THE PROJECT:

1. SILT FENCE FOR NON-SENSITIVE AREAS (Sd1-NS) SHALL BE INSTALLED AT APPROPRIATE LOCATIONS TO PREVENT SEDIMENT FROM BEING WASHED OFF OF THE SITE. THESE LOCATIONS INCLUDE, BUT ARE NOT LIMITED TO, THE SITE PERIMETER.
2. INLET SEDIMENT TRAPS (Sd2), INCLUDING BLOCK AND GRAVEL DROP INLET PROTECTION (Sd2-Bg) AND CURB INLET PROTECTION (Sd2-P), SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING STORM DRAINAGE SYSTEMS PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA DRAINING TO THE INLET.
3. DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) (Ds1) SHALL BE USED TO REDUCE RUNOFF AND EROSION, TO CONSERVE MOISTURE, TO PREVENT SURFACE COMPACTION OR CRUSTING, TO CONTROL UNDESIRABLE VEGETATION, TO MODIFY SOIL TEMPERATURE, AND TO INCREASE BIOLOGICAL ACTIVITY IN THE SOIL.
4. DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) (Ds2) SHALL BE USED TO REDUCE RUNOFF AND SEDIMENT DAMAGE OF DOWN STREAM RESOURCES, TO PROTECT THE SOIL SURFACE FROM EROSION, TO IMPROVE WILDLIFE HABITAT, TO IMPROVE AESTHETICS, AND TO IMPROVE TILTH, INFILTRATION AND AERATION AS WELL AS ORGANIC MATTER FOR PERMANENT PLANTINGS.
5. DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING) (Ds3) SHALL BE USED TO PROTECT THE SOIL SURFACE FROM EROSION, REDUCE DAMAGE FROM SEDIMENT AND RUNOFF TO DOWN-STREAM AREAS, IMPROVE WILDLIFE HABITAT AND VISUAL RESOURCES, AND IMPROVE AESTHETICS.
6. CONSTRUCTION EXIT (Co) SHALL BE USED TO REDUCE OR ELIMINATE THE TRANSPORT OF MUD FROM THE CONSTRUCTION AREA ONTO PUBLIC RIGHTS-OF-WAY BY MOTOR VEHICLES OR BY RUNOFF.
7. TREE PROTECTION FENCING (Tr) SHALL BE INSTALLED ALONG TREE LINES ADJACENT TO CONSTRUCTION AREAS WHERE CONSTRUCTION ACTIVITIES MAY DAMAGE EXISTING TREES.
8. DUST CONTROL ON DISTURBED AREAS (Du) SHALL BE USED TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES AND TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES THAT MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH, WELFARE, OR SAFETY, OR TO ANIMALS OR PLANT .
9. SURFACE ROUGHENING (Su) SHALL BE USED TO AID IN ESTABLISHMENT OF VEGETATIVE COVER WITH SEED, TO REDUCE RUNOFF VELOCITY AND INCREASE INFILTRATION, REDUCE EROSION AND PROVIDE FOR SEDIMENT TRAPPING.
10. SLOPE STABILIZATION (Ss) SHALL BE USED TO PROVIDE A COVER LAYER THAT STABILIZES THE SOIL AND ACTS AS A RAIN DROP IMPACT DISSIPATER WHILE PROVIDING A MICROCLIMATE THAT PROTECTS YOUNG VEGETATION AND PROMOTES ITS ESTABLISHMENT.

CONSTRUCTION SCHEDULE

29

ACTIVITY	MONTH 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
NOTICE TO PROCEED	●																									
INSTALLATION OF EROSION CONTROL	▬	▬																								
INSTALL PERIMETER CONTROL & SED STORAGE	▬	▬																								
MAINTENANCE OF EROSION CONTROL	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬
INSTALLATION OF TREE PROTECTION DEVICES	▬	▬																								
MAINTENANCE OF TREE PROTECTION DEVICES	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬
EARTHMOVING OPERATIONS		▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	
TEMPORARY AND PERMANENT GRASSING			▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	
CLEAN-UP																									▬	▬

CONSTRUCTION ACTIVITIES ARE EXPECTED TO BEGIN IN FEBRUARY 2026 AND LAST 26 MONTHS.

4 24-HOUR CONTACT RESPONSIBLE FOR ES&PC

NAME: _____

PHONE NUMBER: _____

5 PRIMARY PERMITTEE (OWNER)

NAME: CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
COREY GHORLEY, CAPITAL IMPROVEMENTS COORDINATOR

ADDRESS: 110 RAILROAD STREET, CANTON, GEORGIA 30114

EMAIL ADDRESS: COREYGHORLEY@CHEROKEEWATERGA.GOV

PHONE NUMBER: (770) 479-1813, EXT. 1183

2

5 PRIMARY PERMITTEE (CONTRACTOR AS OPERATOR)

NAME: _____

ADDRESS: _____

EMAIL ADDRESS: _____

PHONE NUMBER: _____

EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES

GENERAL

1. THIS PROJECT LIES WITHIN ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) OF OTHER AREAS PER FEMA FIRM PANEL 13057C0352E, DATED JUNE 7, 2019.
2. EXISTING SITE INFORMATION SOURCED FROM SURVEY BY TERRAMARK LAND SURVEYING, INC. DATED FEBRUARY 2020, MAY 2025, AND JULY 2025.
3. ACCEPTANCE AND/OR SUBSEQUENT ACCEPTANCE OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY CHEROKEE COUNTY OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS, JURISDICTIONAL WATERS OF THE STATE, AREAS OF THREATENED/ENDANGERED SPECIES, OR AREAS OF HISTORICAL SIGNIFICANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR ANY REQUIRED APPROVALS.
4. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM WITH THE GUIDELINES OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL". LATEST EDITION.
5. MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.
6. PRIMARY PERMITTEE MUST SUBMIT NPDES NOTICE OF INTENT (NOI) AT LEAST 14 DAYS PRIOR TO BEGINNING OF LAND DISTURBANCE ACTIVITIES.
7. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT UNDER NO CIRCUMSTANCES ANY SEDIMENT, TRASH, OR DEBRIS BE ALLOWED ONTO ADJACENT PROPERTIES, PUBLIC LANDS, OR OUTSIDE OF THE CONSTRUCTION LIMITS.
9. THE PRIMARY PERMITTEE AND TERTIARY PERMITTEE(S) MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN (ES&PC), EXCEPT WHEN THE PERMITTEE HAS REQUESTED IN WRITING AND EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPS HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.
10. EROSION AND SEDIMENT CONTROL WILL BE PERFORMED IN ACCORDANCE WITH THE BMPS SHOWN IN THESE PLANS.
11. EROSION AND SEDIMENT CONTROL DEVICES SHOWN ARE THE MINIMUM REQUIRED. ADDITIONAL DEVICES MAY BE REQUIRED AS NECESSARY.
12. FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL PRACTICES SHALL RESULT IN CONSTRUCTION BEING HALTED.
13. LAND DISTURBING WILL BE SCHEDULED TO LIMIT EXPOSURE OF BARE SOIL TO EROSIVE ELEMENTS.
14. A CHEROKEE COUNTY LAND DISTURBANCE PERMIT MUST BE DISPLAYED ON-SITE AT ALL TIMES DURING CONSTRUCTION AND IN PLAIN VIEW FROM A COUNTY ROAD OR STREET.
15. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT UNDER NO CIRCUMSTANCES ANY SEDIMENT, TRASH, OR DEBRIS BE ALLOWED ONTO ADJACENT PROPERTIES, PUBLIC LANDS, OR OUTSIDE OF THE CONSTRUCTION LIMITS.
16. THE APPLICABLE PORTION OF THE ES&PC PLAN SHALL BE PROVIDED TO EACH SECONDARY PERMITTEE PRIOR TO THE SECONDARY CONDUCTING ANY CONSTRUCTION ACTIVITY. EACH SECONDARY PERMITTEE SHALL SIGN THE PLAN OR ANY PORTION OF THE PLAN APPLICABLE TO THEIR SITE. A LIST OF NAMES AND ADDRESSES OF ANY SECONDARY PERMITTEES SHALL BE PROVIDED TO CHEROKEE COUNTY PRIOR TO THE SECONDARY PERMITTEE CONDUCTING ANY CONSTRUCTION ACTIVITY.

POLLUTION CONTROL

1. OFF-SITE VEHICLE TRACKING DIRT, SOILS, AND SEDIMENTS, AND THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL. THE FOLLOWING BMPS SHALL BE IMPLEMENTED AS APPROPRIATE: CONSTRUCTION EXIT (Co), MULCH (Ds1), VEGETATIVE COVER (Ds2/Ds3), TREE PROTECTION FENCE (Tr), SILT FENCE (Sd1), AND INLET PROTECTION (Sd2).
2. CONTRACTOR SHALL SELECT A DESIGNATED WASTE COLLECTION AREA AND PROVIDE LIDS FOR WASTE CONTAINMENT. SOLID WASTE SHALL BE REMOVED AND DISPOSED OFFSITE AT A REGULAR SCHEDULE.
3. ALL WASTEWATER AND FROM CONSTRUCTION ACTIVITIES AND OR CLEANING OPERATIONS SHALL NOT BE DISCHARGED ON THE GROUND OR STORMWATER SYSTEM.
4. OFF-SITE VEHICLE TRACKING OF SEDIMENT:
   4.A. A STABILIZED STONE PAD WILL BE LOCATED AT THE CONSTRUCTION ENTRANCE TO REDUCE TRANSPORT OF MUD FROM THE CONSTRUCTION SITE.
   4.B. THE STONE PAD WIL BE PERIODICALLY DRESSED. MUD AND DEBRIS TRACKED OR SPILLED ONTO ROADWAYS WILL BE REMOVED IMMEDIATELY.
   4.C. CONTRACTOR WILL CONTROL SURFACE AND AIR MOVEMENT OF DUST BY SPRAYING WATER ONTO DISTURBED SOIL.
5. MATERIALS HANDLING/STORAGE:
   5.A. ALL BUILDING MATERIALS AND PRODUCTS STORED ON-SITE SHALL BE TIED DOWN AND/OR COVERED TO PROVIDE PROTECTION FROM UV DAMAGE, WIND, AND RAIN.
6. SANITARY WASTES
   6.A. ONE PORTABLE SANITARY UNIT WILL BE PROVIDED TO EVERY TEN (10) WORKERS ON THE SITE (MINIMUM). ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS ONE TIME PER WEEK (MINIMUM) BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.
   6.B. ALL SANITARY WASTE UNITS WILL BE LOCATED WHERE THE LIKELIHOOD TO STORMWATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMPs MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES.
7. WASHOUT OF THE DRUM OF A CONCRETE TRUCK AT THE CONSTRUCTION SITE IS PROHIBITED.
24 8. CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS, AND THE REAR OF VEHICLES WILL ONLY BE ALLOWED IN THE DESIGNATED AREA(S) PROVIDED FOR THIS PURPOSE AS SHOWN IN THE DRAWINGS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE AS FOLLOWS.
   8.A. CONTAIN ALL WASH WATER ON SOIL, IN A BOWL-SHAPED AREA CREATED IN THE DESIGNATED WASH AREA TO PREVENT WASH WATER FROM EXITING THE WASHOUT AREA.
   8.B. USE THE MINIMUM AMOUNT OF WATER TO WASH DOWN THE TOOLS, CONCRETE MIXER CHUTES, HOPPERS, AND THE REAR OF VEHICLES.
   8.C. REMOVE ANY CONCRETE SEDIMENT FROM THE AREA SURROUNDING THE WASHOUT AREA BEFORE IT HARDENS.
   8.D. REMOVE ALL CONCRETE RESIDUE FROM THE DESIGNATED AREA ONCE IT HAS HARDENED.

OTHER REQUIRED NOTES

1. **THIS PROJECT LIES WITHIN LAND DISTRICT 15, LAND LOTS 1038 AND 1051, OF CHEROKEE COUNTY, GEORGIA.**
2. **ADDITIONAL EROSION CONTROL DEVICES TO BE USED AS REQUESTED BY CHEROKEE COUNTY.**
3. **APPLICABLE PORTIONS OF THE ES&C PLAN ARE TO BE PROVIDED TO EACH SECONDARY PERMITTEE PRIOR TO THE SECONDARY CONDUCTING ANY CONSTRUCTION ACTIVITY. EACH SECONDARY PERMITTEE SHALL SIGN THE PLAN OR PORTION OF THE PLAN APPLICABLE TO THEIR SITE. CONTRACTOR TO PROVIDE A LIST OF THE NAMES AND ADDRESSES OF ALL SECONDARY PERMITTEES.**
4. **A CHEROKEE COUNTY LAND DISTURBANCE PERMIT MUST BE DISPLAYED ON-SITE AT ALL TIMES DURING CONSTRUCTION AND IN PLAN VIEW FROM A COUNTY ROAD OR STREET.**
5. **EROSION CONTROL PRACTICES MUST COMPLY WITH THE MINIMUM BEST MANAGEMENT PRACTICES FOR EROSION CONTROL PER CHEROKEE COUNTY SOIL EROSION, SEDIMENTATION AND POLLUTION CONTROL ORDINANCE (NO. 2017-O-005); ARTICLE III. - SOIL EROSION AND SEDIMENTATION CONTROL OF CHAPTER 26 - ENVIRONMENT OF THE CHEROKEE COUNTY, GEORGIA, CODE OF ORDINANCES; AND THE STANDARDS/SPECIFICATIONS IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA (LATEST EDITION).**

GEORGIA UNIFORM CODING SYSTEM FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES GEORGIA SOIL AND WATER CONSERVATION COMMISSION

2

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, or a silt fence.
Sd2	INLET SEDIMENT TRAP			A temporary protective device formed at or around an inlet to a storm drain to trap sediment.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.

2

VEGETATIVE PRACTICES

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CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

2

2 8 ALL 11/2025 REVISIONS MADE TO THIS SHEET WERE REQUESTED BY CHEROKEE COUNTY FOR THE STATE EROSION CONTROL PORTION OF THEIR REVIEW FOR A LAND DISTURBANCE PERMIT.

STORMWATER DISCHARGE POLLUTANT REDUCTION

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1. ALL POLLUTANTS FROM WASTE DISPOSAL PRACTICES, SOIL ADDITIVES, REMEDIATION OF SPILLS AND LEAKS OF PETROLEUM PRODUCTS, CONCRETE TRUCK WASHOUT, ETC., SHOULD ANY OF THESE OCCUR, WILL BE CONTROLLED BY THE IMPLEMENTATION OF APPROPRIATE BEST MANAGEMENT PRACTICES.
2. THE SITE WILL BE IN COMPLIANCE WITH ALL APPLICABLE STATE AND LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.
3. PRODUCT SPECIFIC PRACTICES:
   3.A. PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ONSITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORMWATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.
   3.B. PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCTS WILL NOT BE DISCHARGED TO THE STORMWATER COLLECTION SYSTEM. EXCESS PRODUCT MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
   3.C. CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.
   3.D. FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.
   3.E. BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.
2 4. STORMWATER IS TREATED BY THE EXISTING WATER QUALITY POND LOCATED DOWNSTREAM FROM THE LIMITS OF DISTURBANCE.

SPILL CLEANUP AND CONTROL PRACTICES

25

1. LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
2. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
3. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY.
4. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
   4.A. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.
   4.B. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.
   4.C. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.
   4.D. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.
5. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

BUILDING MATERIAL AND BUILDING PRODUCTS COVER

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1. FOR BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS PRESENT ON THE SITE, PROVIDE COVER (E.G. PLASTIC SHEETING, TEMPORARY ROOFS) TO MINIMIZE THE EXPOSURE OF THESE PRODUCTS TO PRECIPITATION AND TO STORMWATER, OR A SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THESE AREAS. MINIMIZATION OF EXPOSURE IS NOT REQUIRED IN CASES WHERE EXPOSURE TO PRECIPITATION AND TO STORMWATER WILL NOT RESULT IN A DISCHARGE OF POLLUTANTS, OR WHERE EXPOSURE OF A SPECIFIC MATERIAL OR PRODUCT POSES LITTLE RISK TO STORMWATER CONTAMINATION (SUCH AS FINAL PRODUCTS AND MATERIALS INTENDED FOR OUTDOOR USE).

PHASE I – INITIAL PHASE: SITE PREPARATION AND PRE-CONSTRUCTION OPERATIONS

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INSTALL / CONSTRUCT / MAINTAIN ALL BMPS AS PROVIDED ON DRAWING 01-C-502.

1. THE FOLLOWING INITIAL EROSION CONTROL M

PERMIT COVERAGE:

THIS PLAN HAS BEEN PREPARED TO MEET THE REQUIREMENTS UNDER THE STATE OF GEORGIA, DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION (EPD), GENERAL PERMIT NO. GAR100001 FOR AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR STAND ALONE DEVELOPMENTS.

A. MANAGEMENT PRACTICES AND PERMIT VIOLATIONS (PART III.D):

A.1. BEST MANAGEMENT PRACTICES ARE REQUIRED FOR ALL CONSTRUCTION ACTIVITIES AND MUST BE IMPLEMENTED IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" TO PREVENT OR REDUCE THE POLLUTION OF WATERS OF GEORGIA. PROPER DESIGN, INSTALLATION, AND MAINTENANCE OF BMP'S SHALL CONSTITUTE A COMPLETE DEFENSE TO ANY ACTION BY THE DIRECTOR OR TO ANY OTHER ALLEGATION OF NONCOMPLIANCE WITH PART III.D.3 AND PART III.D.4.

A.2. FAILURE TO PROPERLY DESIGN, INSTALL, OR MAINTAIN BMP'S SHALL CONSTITUTE A VIOLATION OF THE PERMIT ROUTINE INSPECTIONS SHALL NOT BE CONSIDERED A VIOLATION. IF DURING THE COURSE OF THE PERMITTEE'S ROUTINE INSPECTIONS BMP FAILURES ARE OBSERVED WHICH HAVE RESULTED IN SEDIMENT DEPOSITION INTO WATERS OF THE STATE, THE PERMITTEE SHALL CORRECT THE BMP FAILURES AND SHALL SUBMIT A SUMMARY OF THE VIOLATIONS TO EPD IN ACCORDANCE WITH PART V.A.2 OF THE PERMIT.

A.3. A DISCHARGE OF STORMWATER RUNOFF FROM DISTURBED AREAS WHERE BMP'S HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH DISCHARGE RESULTS IN THE TURBIDITY OF RECEIVING WATER(S) BEING INCREASED BY MORE THAN TEN (10) NEPHELOMETRIC TURBIDITY UNITS FOR WATERS CLASSIFIED AS TROUT STREAMS OR MORE THAN TWENTY-FIVE (25) NEPHELOMETRIC TURBIDITY UNITS FOR WATERS SUPPORTING WARM WATER FISHERIES, REGARDLESS OF A PERMITTEE'S CERTIFICATION UNDER PART II.B.1.J. AND PART II.B.3.J.

B. AUTHORIZED DISCHARGES (PART I.C):

B.1. ALL DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT WILL RESULT IN LAND DISTURBANCE EQUAL TO OR GREATER THAN ONE ACRE. PART I.C.1.A.

B.2. ALL DISCHARGES COVERED BY THIS PERMIT SHALL BE COMPOSED ENTIRELY OF STORMWATER EXCEPT AS PROVIDED IN PART I.C.2 AND PART III.A.2 OF THE PERMIT. PART III.A.1.

B.3. AUTHORIZED MIXED STORMWATER DISCHARGES: PART I.C.2.

B.3.1. THE INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION IS LOCATED ON THE SAME SITE AS THE CONSTRUCTION ACTIVITY AND IS AN INTEGRAL PART OF THE CONSTRUCTION ACTIVITY;

B.3.2. THE STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES ARE OCCURRING ARE IN COMPLIANCE WITH THE TERMS OF THE PERMIT;

B.3.3. STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION ARE OCCURRING ARE COVERED BY A DIFFERENT NPDES GENERAL PERMIT OR INDIVIDUAL PERMIT AUTHORIZING SUCH DISCHARGES AND THE DISCHARGES ARE IN COMPLIANCE WITH A DIFFERENT NPDES PERMIT.

B.4. THE FOLLOWING NON-STORMWATER DISCHARGES MAY BE AUTHORIZED BY THIS PERMIT PROVIDED THE NON-STORMWATER COMPONENT OF THE DISCHARGE IS EXPLICITLY IN THE PLAN AND IS IN COMPLIANCE WITH PART IV.D.7: PART III.A.2.

B.4.1. FIRE FIGHTING ACTIVITIES;
B.4.2. FIRE HYDRANT FLUSHING;
B.4.3. POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING;
B.4.4. IRRIGATION DRAINING;
B.4.5. AIR CONDITIONING CONDENSATE;
B.4.6. SPRINGS;
B.4.7. UNCONTAMINATED GROUND WATER; AND
B.4.8. FOUNDATION OR FOOTING DRAINS WHERE THE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS.

C. LIMITATIONS ON COVERAGE PART I.C.3

C.1. THE FOLLOWING STORMWATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT:

C.1.1. STORMWATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATE FROM THE SITE AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION;

C.1.2. DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORMWATER OTHER THAN DISCHARGES WHICH ARE IDENTIFIED IN PART III.A.2. OF THIS PERMIT AND WHICH ARE IN COMPLIANCE WITH PART IV.D.7. (NON-STORMWATER DISCHARGES) OF THIS PERMIT;

C.1.3. STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES INDIVIDUAL OR GENERAL PERMIT. SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING PERMIT EXPIRES PROVIDED THE EXISTING PERMIT DID NOT ESTABLISH NUMERIC LIMITATIONS FOR SUCH DISCHARGES; AND

C.1.4. STORMWATER DISCHARGES FROM CONSTRUCTION SITES THAT THE DIRECTOR (EPD) HAS DETERMINED TO BE OR MAY REASONABLY BE EXPECTED TO BE CONTRIBUTING TO A VIOLATION OF A WATER QUALITY STANDARD.

D. COMPLIANCE WITH WATER QUALITY PART I.C.4

D.1. NO DISCHARGES AUTHORIZED BY THIS PERMIT SHALL CAUSE VIOLATIONS OF GEORGIA'S IN-STREAM WATER QUALITY STANDARDS AS PROVIDED BY THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 391-3-6-.03.

INSPECTIONS. - PERMITTEE REQUIREMENTS. (PART IV.D.4.a.) ✔30

(1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (a) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (b) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(2). MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

(3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (a) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE; (b) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (c) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.a.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(4). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION HAS BEEN SUBMITTED) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

(5). BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(6). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.a.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION SITE THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

SAMPLING REQUIREMENTS (PART IV.D.6.) ✔31 ✔33

STORMWATER SAMPLING SHALL BE IN ACCORDANCE WITH THE METHODOLOGY IN "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND NPDES GENERAL PERMIT No. GAR100001 ISSUED BY THE STATE OF GEORGIA DEPARTMENT OF NATURAL RESOURCES ENVIRONMENTAL PROTECTION DIVISION.

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS PARAGRAPH SHALL NOT APPLY TO ANY LAND DISTURBANCE ASSOCIATED WITH THE CONSTRUCTION OF SINGLE-FAMILY HOMES WHICH ARE NOT PART OF A SUBDIVISION OR PLANNED COMMON DEVELOPMENT UNLESS FIVE (5) ACRES OR MORE WILL BE DISTURBED. THE FOLLOWING PROCEDURES CONSTITUTE EPD's GUIDELINES FOR SAMPLING TURBIDITY.

a. *SAMPLING REQUIREMENTS* SHALL INCLUDE THE FOLLOWING:

(1). A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (a) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORMWATER IS DISCHARGED AND (b) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORMWATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;

(2). A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;

(3). WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND

(4). ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

b. *SAMPLE TYPE*. ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

(1). SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.

(2). SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.

(3). LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.

(4). MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.

(5). SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

c. *SAMPLING POINTS*.

(1). FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORMWATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

(a). THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORMWATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.

(b). THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORMWATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.

(c). IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORMWATER OUTFALL CHANNEL(S).

(d). CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORMWATER CHANNEL.

(e). THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

(f). THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.

(g). PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION).

(h). ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORMWATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3. OR III.D.4., WHICHEVER IS APPLICABLE.

d. *SAMPLING FREQUENCY*.

(1). THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN IN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.

(2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORMWATER DISCHARGE.

(3). SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:

(a). FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;

(b). IN ADDITION TO (a) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;

(c). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (a) AND (b) ABOVE, IF BMPs IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPs ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;

(d). WHERE SAMPLING PURSUANT TO (a), (b) OR (c) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.a.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (a), (b) OR (c) ABOVE; AND

(e). EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (a) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (b). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (b) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (c) ABOVE.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (a) and (b) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

REPORTING (PART IV.E.) ✔31

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORMWATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

a. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
b. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
c. THE DATE(S) ANALYSES WERE PERFORMED;
d. THE TIME(S) ANALYSES WERE INITIATED;
e. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
f. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
g. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;
h. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND
i. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

RETENTION OF RECORDS (PART IV.F.) ✔32

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:

a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
d. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.a. OF THIS PERMIT;
f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND
g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.a.(2). OF THIS PERMIT.

2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS PERMIT. THESE RECORD

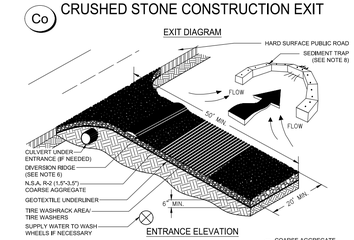
VEGETATIVE COVERS

	MONTH	TEMPORARY SEED	RATE/ACRE	RATES/1,000 SQ. FT. FERTILIZER	RATES/1,000 SQ. FT. LIME STONE	PERMANENT SEED	RATE/ACRE	RATES/1,000 SQ. FT. FERTILIZER	RATES/1,000 SQ. FT. LIME STONE	MAINTENANCE
1)	JANUARY	RYEGRASS	40 - 50 LB.	12 LB (10-10-10)	45 LB.	UNHULLED BERMUDA SERICEA LESPEDEZA (2)	8 - 10 LB. 30 - 40 LB. (1)	12 LB (10-10-10) 35 LB (6-12-12)	45 LB. 45 LB.	10 LB (10-10-10) 10 LB (10-10-10)
2)	FEBRUARY	RYEGRASS	40 - 50 LB.	12 LB (10-10-10)	45 LB.	UNHULLED BERMUDA SERICEA LESPEDEZA (2) FESCUE	8 - 10 LB. 30 - 40 LB. 30 - 50 LB.	12 LB (10-10-10) 35 LB (6-12-12) 35 LB (6-12-12)	45 LB. 45 LB. 45 LB.	10 LB (10-10-10) 10 LB (10-10-10) 10 LB (10-10-10)
3)	MARCH	RYE ANNUAL LESPEDEZA WEEPING LOVEGRASS	2 - 3 BU. 20 - 25 LB. 4 - 6 LB.	12 LB (10-10-10) 35 LB (6-12-12) 12 LB (10-10-10)	45 LB. 45 LB. 45 LB.	UNHULLED BERMUDA SERICEA LESPEDEZA (2) FESCUE	8 - 10 LB. 30 - 40 LB. 30 - 50 LB.	12 LB (10-10-10) 35 LB (6-12-12) 12 LB (10-10-10)	45 LB. 45 LB. 45 LB.	10 LB (10-10-10) 10 LB (10-10-10) 10 LB (10-10-10)
4)	APRIL	RYE BROWN TOP MILLET ANNUAL LESPEDEZA SUDAN ANNUAL	2 - 3 BU. 30 - 40 LB. 20 - 25 LB. 35 LB.	12 LB (10-10-10) 12 LB (10-10-10) 35 LB (6-12-12) 35 LB (6-12-12)	45 LB. 45 LB. 45 LB.	WEEPING LOVEGRASS HULLED BERMUDA BAHIA	4 - 6 LB. 5 - 6 LB. 40 - 60 LB.	12 LB (10-10-10) 12 LB (10-10-10) 35 LB (6-12-12)	45 LB. 45 LB. 45 LB.	10 LB (10-10-10) 10 LB (10-10-10) 10 LB (10-10-10)
5)	MAY	WEEPING LOVEGRASS SUDAN GRASS BROWN TOP MILLET	4 - 6 LB. 35 LB. 30 - 40 LB.	12 LB (10-10-10) 35 LB (6-12-12) 12 LB (10-10-10)	45 LB. 45 LB. 45 LB.	WEEPING LOVEGRASS HULLED BERMUDA BAHIA	4 - 6 LB. 5 - 6 LB. 40 - 60 LB.	12 LB (10-10-10) 12 LB (10-10-10) 35 LB (6-12-12)	45 LB. 45 LB. 45 LB.	10 LB (10-10-10) 10 LB (10-10-10) 10 LB (10-10-10)
6)	JUNE	WEEPING LOVEGRASS SUDAN GRASS BROWN TOP MILLET	4 - 6 LB. 35 LB. 30 - 40 LB.	12 LB (10-10-10) 35 LB (6-12-12) 12 LB (10-10-10)	45 LB. 45 LB.	WEEPING LOVEGRASS HULLED BERMUDA BAHIA	4 - 6 LB. 5 - 6 LB. 40 - 60 LB.	12 LB (10-10-10) 12 LB (10-10-10) 35 LB (6-12-12)	45 LB. 45 LB. 45 LB.	10 LB (10-10-10) 10 LB (10-10-10) 10 LB (10-10-10)
7)	JULY	WEEPING LOVEGRASS SUDAN GRASS BROWN TOP MILLET	4 - 6 LB. 35 LB. 30 - 40 LB.	12 LB (10-10-10) 35 LB (6-12-12) 12 LB (10-10-10)	45 LB. 45 LB.	WEEPING LOVEGRASS SUDAN GRASS BROWN TOP MILLET	4 - 6 LB. 35 LB. 30 - 40 LB.	12 LB (10-10-10) 35 LB (6-12-12) 12 LB (10-10-10)	45 LB. 45 LB. 45 LB.	10 LB (10-10-10) 10 LB (10-10-10) 10 LB (10-10-10)
8)	AUGUST	RYEGRASS WEEPING LOVEGRASS	40 - 50 LB. 4 - 6 LB.	12 LB (10-10-10) 12 LB (10-10-10)	45 LB.	HULLED BERMUDA BAHIA	30 - 50 LB. 40 - 60 LB.	12 LB (10-10-10) 35 LB (6-12-12)	45 LB. 45 LB.	10 LB (10-10-10) 10 LB (10-10-10)
9)	SEPTEMBER	RYEGRASS TALL FESCUE	40 - 50 LB. 30 - 50 LB.	12 LB (10-10-10) 35 LB (6-12-12)	45 LB. 45 LB.	TALL FESCUE	30 - 50 LB.	35 LB (6-12-12)	45 LB.	10 LB (10-10-10)
10)	OCTOBER	WHEAT	2 - 3 BU.	12 LB (10-10-10)	45 LB.	UNHULLED BERMUDA SERICEA LESPEDEZA (2) FESCUE	8 - 10 LB. 30 - 40 LB. 30 - 50 LB.	12 LB (10-10-10) 35 LB (6-12-12) 35 LB (6-12-12)	45 LB. 45 LB. 45 LB.	10 LB (10-10-10) 10 LB (10-10-10) 10 LB (10-10-10)
11)	NOVEMBER	WHEAT	2 - 3 BU.	12 LB (10-10-10)	45 LB.	UNHULLED BERMUDA FESCUE SERICEA LESPEDEZA	8 - 10 LB. 30 - 50 LB. 30 - 40 LB.	12 LB (10-10-10) 35 LB (10-10-10) 35 LB (6-12-12)	45 LB. 45 LB. 45 LB.	10 LB (10-10-10) 10 LB (10-10-10) 10 LB (10-10-10)
12)	DECEMBER	RYE RYEGRASS WHEAT	2 - 3 BU. 40 - 50 LB. 2 - 3 BU.	12 LB (10-10-10) 12 LB (10-10-10) 12 LB (10-10-10)	45 LB. 45 LB. 45 LB.	UNHULLED BERMUDA SERICEA LESPEDEZA FESCUE	8 - 10 LB. 30 - 40 LB. 30 - 50 LB.	12 LB (10-10-10) 35 LB (10-10-10) 35 LB (6-12-12)	45 LB. 45 LB. 45 LB.	10 LB (10-10-10) 10 LB (10-10-10) 10 LB (10-10-10)

(1) - USE A MINIMUM OF 40 LBS. SCARIFIED SEED. REMAINDER MAY BE UNSCARIFIED, CLEAN HULLED SEED.
(2) - USE EITHER COMMON SERALA, OR INTERSTATE SERICEA LESPEDEZA.

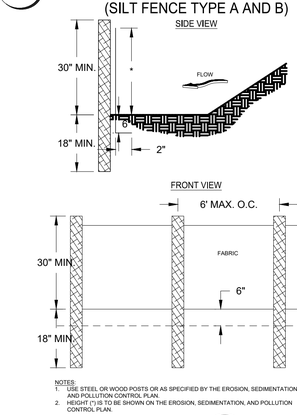
THE ABOVE SEEDING CHART LISTS ALL POTENTIAL OPTIONS. CONTRACTOR IS TO SUBMIT THE SCHEDULE AND PROPOSED SEED MIXTURE FOR THIS PROJECT FOR ENGINEER'S APPROVAL PRIOR TO SEEDING.

Co CRUSHED STONE CONSTRUCTION EXIT



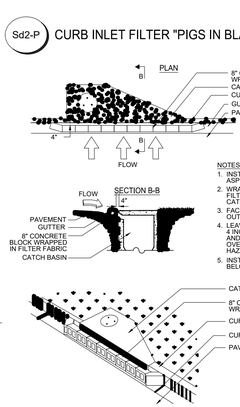
NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHERE GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

Sd1-NS SEDIMENT BARRIER - NON-SENSITIVE AREAS (SILT FENCE TYPE A AND B)



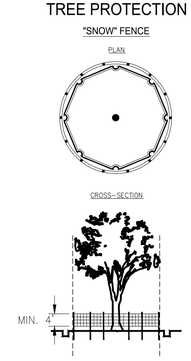
NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (") IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

Sd2-P CURB INLET FILTER "PIGS IN BLANKET"

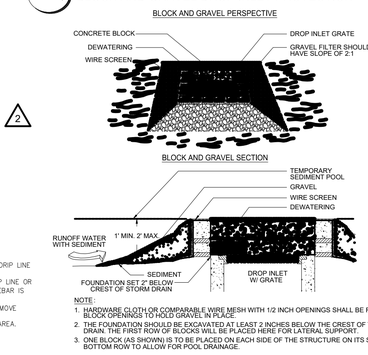


NOTES:
1. INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.
2. WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET.
3. FACE OPENINGS IN BLOCKS OUTWARD.
4. LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE CURB AND THE FILTERS TO ALLOW FOR OVERFLOW TO PREVENT HAZARDOUS PONDING.
5. INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.

Tr TREE PROTECTION



Sd2-Bg BLOCK AND GRAVEL DROP INLET PROTECTION



NOTES
1. USE TRENCHER (I.E., DITCH WHICH) TO CUT A 4"–5" W X 18" D TRENCH ALONG DRIP LINE (LIMIT OF CLEARING) AND BACKFILL WITH SAND AND LIGHTLY COMPACT.
2. SPACE STAKES AT INTERVALS SUFFICIENT TO MAINTAIN ALL FENCING OUT OF DRIP LINE OR AS SHOWN BY ENGINEER (SET STAKES NO GREATER THAN 6 FEET ON CENTER–REBAR IS NOT TO BE USED FOR STAKES).
3. MAINTAIN FENCE BY REPAIRING AND/OR REPLACING DAMAGED FENCE. DO NOT REMOVE FENCING PRIOR TO LANDSCAPING OPERATIONS.
4. DO NOT STORE OR STACK MATERIALS, EQUIPMENT, OR VEHICLES WITHIN FENCED AREA.
5. FENCE SHALL BE ORANGE VINYL "SNOW FENCE" 4' HIGH MINIMUM.

NOTE:
1. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2 INCH OPENINGS SHALL BE FITTED OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.
2. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. THE FIRST ROW OF BLOCKS WILL BE PLACED HERE FOR LATERAL SUPPORT.
3. ONE BLOCK (AS SHOWN) IS TO BE PLACED ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW FOR POOL DRAINAGE.

Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

Disturbed Area Stabilization (With Permanent Vegetation) Ds3

DEFINITION
The planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization. Permanent perennial vegetation shall be used to achieve final stabilization.

PURPOSE
- To protect the soil surface from erosion
- To reduce damage from sediment and runoff to down-stream areas
- To improve wildlife habitat and visual resources
- To improve aesthetics

REQUIREMENT FOR REGULATORY COMPLIANCE
This practice shall be applied immediately to rough graded areas that will be undisturbed for longer than six months. This practice or sodding shall be applied immediately to all areas at final grade. **Final Stabilization** means that all soil disturbing activities at the site have been completed, and that for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by the GA EPD for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures.

Permanent vegetation shall consist of, planted trees, shrubs, perennial vines, or a crop of perennial vegetation appropriate for the region, such that within the growing season a 70% coverage by perennial vegetation shall be achieved. Final stabilization applies to each phase of construction. For linear construction projects on land used for agricultural or silvicultural purposes, final stabilization may be accomplished by stabilizing the disturbed land for its agricultural or silvicultural use. Until this standard is satisfied and permanent control measures and facilities are operational, interim stabilization measures and temporary erosion and sedimentation control measures shall not be removed.

CONDITIONS
Permanent perennial vegetation is used to provide a protective cover for exposed areas including cuts, fills, dams, and other denuded areas.

PLANNING CONSIDERATIONS
1. Use conventional planting methods where possible.
2. When mixed plantings are done during marginal planting periods, companion crops shall be used.
3. No-till planting is effective when planting is done following a summer or winter annual cover crop. Sericea lespedeza planted no-till into stands of rye is an excellent procedure.
4. Block sod provides immediate cover. It is especially effective in controlling erosion adjacent to concrete flumes and other structures. Refer to Specification **Ds4-Disturbed Area Stabilization (With Sodding)**.
5. Irrigation should be used when the soil is dry or when summer plantings are done.
6. Low maintenance plants, as well as natives, should be used to ensure long-lasting erosion control.
7. Mowing should not be performed during the quail nesting season (May to September).
8. Wildlife plantings should be included in critical area plantings.

Wildlife Plantings
Commercially available plants beneficial to wildlife species include the following:

Mast Bearing Trees

Beech, Black Cherry, Blackgum, Chestnut, Chinkapin, Hackberry, Hickory, Honey Locust, Native Oak, Persimmon, Sawtooth Oak and Sweetgum.

All trees that produce nuts or fruits are favored by many game species. Hickory provides nuts used mainly by squirrels and bear.

Shrubs and Small Trees

Bayberry, Bicolor Lespedeza, Crabapple, Dogwood, Huckleberry or Native Blueberry, Mountain Laurel, Native Holly, Red Cedar, Red Mulberry, Sumac, Wax Myrtle, Wild Plum and Blackberry.

Plant in patches without tall trees to develop stable shrub communities. All produce fruits used by many kinds of wildlife, except for lespedeza that produces seeds used by quail and songbirds.

Grasses, Legumes, Vines and Temporary Cover

Bahiagrass, Bermudagrass, Grass-Legume mixtures, Partridge Pea, Annual Lespedeza, Orchardgrass (for mountains), Browntop Millet (for temporary cover), and Native grapes.

Provides herbaceous cover in clearings for a game bird brood-rearing habitat. Appropriate legumes such as vetches, clovers, and lespedezas may be mixed with grass, but they may die out after a few years.

CONSTRUCTION SPECIFICATIONS
Grading and Shaping
Grading and shaping may not be required where hydraulic seeding and fertilizing equipment is to be used. Vertical banks shall be sloped to enable plant establishment.

When conventional seeding and fertilizing are to be done, grade and shape where feasible and practical, so that equipment can be used safely and efficiently during seedbed preparation, seeding, mulching and maintenance of the vegetation.

Concentrations of water that will cause excessive soil erosion shall be diverted to a safe outlet. Diversions and other treatment practices shall conform with the appropriate standards and specifications.

Lime and Fertilizer Rates and Analysis
Agricultural lime is required at the rate of one to two tons per acre unless soil tests indicate otherwise. Graded areas require lime application. If lime is applied within six months of planting permanent perennial vegetation, additional lime is not required. Agricultural lime shall be within the specifications of the Georgia Department of Agriculture.

Lime spread by conventional equipment shall be "ground limestone." Ground limestone is calcitic or dolomitic limestone ground so that 90 percent of the material will pass through a 10-mesh sieve, not less than 50 percent will pass through a 50-mesh sieve and not less than 25 percent will pass through a 100-mesh sieve.

Fast-acting lime spread by hydraulic seeding equipment should be "finely ground limestone" spanning from the 180 micron size to the 5 micron size. Finely ground limestone is calcitic or dolomitic limestone ground so that 95 percent of the material will pass through a 100-mesh sieve.

It is desirable to use dolomitic limestone in the Sand Hills, Southern Coastal Plain and Atlantic Coast Flatwoods MLRAs. (See Figure 6-4.1)

Agricultural lime is generally not required where only trees are planted.

Initial fertilization, nitrogen, topdressing, and maintenance fertilizer requirements for each species or combination of species are listed in Table 6-5.1.

Lime and Fertilizer Application
When *hydraulic seeding* equipment is used, the initial fertilizer shall be mixed with seed, innoculant (if needed), and wood cellulose or wood pulp fiber mulch and applied in a slurry. The innoculant, if needed, shall be mixed with the seed prior to being placed into the hydraulic seeder. The slurry mixture will be agitated during application to keep the ingredients thoroughly mixed. The mixture will be spread uniformly over the area within one hour after being placed in the hydroseeder.

Finely ground limestone can be applied in the mulch slurry or in combination with the top dressing.

When *conventional planting* is to be done, lime and fertilizer shall be applied uniformly in one of the following ways:
1. Apply before land preparation so that it will be mixed with the soil during seedbed preparation.
2. Mix with the soil used to fill the holes, distribute in furrows.
3. Broadcast after steep surfaces are scarified, pitted or trenched.
4. A fertilizer pellet shall be placed at root depth in the closing hole beside each pine tree seedling.

Plant Selection
Refer to Tables 6-4.1, 6-5.2, 6-5.3 and 6-5.4 for approved species. Species not listed shall be approved by the State Resource Conservationist of the Natural Resources Conservation Service before they are used.

Plants shall be selected on the basis of species characteristics, site and soil conditions, planned use and maintenance of the area; time of year of planting, method of planting; and the needs and desires of the land user.

Some perennial species are easily established and can be planted alone. Examples of these are Common Bermuda, Tall Fescue, and Weeping Lovegrass.

Other perennials, such as Bahia Grass and Sericea Lespedeza, are slow to become established and should be planted with another perennial species. The additional species will provide quick cover and ample soil protection until the target perennial species become established. For example, Common seeding combinations are 1) Weeping Lovegrass with Sericea Lespedeza (scarified) and 2) Tall Fescue with Sericea Lespedeza (unscarified).

Plant selection may also include annual companion crops. Annual companion crops should be used only when the perennial species are not planted during their optimum planting period. A common mixture is Brown Top Millet with Common Bermuda in mid-summer. Care should be taken in selecting companion crop species and seeding rates because annual crops will compete with perennial species for water, nutrients, and growing space. A high seeding rate of the companion crop may prevent the establishment of perennial species.

Ryegrass shall not be used in any seeding mixtures containing perennial species due to its ability to out-compete desired species chosen for permanent perennial cover.

Seed Quality
The term "pure live seed" is used to express the quality of seed and is not shown on the label. Pure live seed, PLS, is expressed as a percentage of the seeds that are pure and will germinate. Information on percent germination and purity can be found on seed tags. PLS is determined by multiplying the percent of pure seed with the percent of germination; i.e.,

(PLS = % germination x % purity)

EXAMPLE:

Common Bermuda seed
70% germination, 80% purity

PLS = 70% germination x 80% purity

PLS = 56%

The percent of PLS helps you determine the amount of seed you need. If the seeding rate is 10 pounds PLS and the bulk seed is 56 % PLS, the bulk seeding rate is:

10 lbs. PLS/acre = 17.9 lbs/acre
56% PLS

You would need to plant 17.9 lbs/acre to provide 10 lbs/acre of pure live seed.

Seedbed Preparation
Seedbed preparation may not be required where hydraulic seeding and fertilizing equipment is to be used (but is strongly recommended for any seeding process, when possible). When conventional seeding is to be used, seedbed preparation will be done as follows:

Broadcast plantings

1. Tillage, at a minimum, shall adequately loosen the soil to a depth of 4 to 6 inches; alleviate compaction; incorporate lime and fertilizer; smooth and firm the soil; allow for the proper placement of seed, sprigs, or plants; and allow for the anchoring of straw or hay mulch if a disk is to be used.
2. Tillage may be done with any suitable equipment.
3. Tillage should be done on the contour where feasible.
4. On slopes too steep for the safe operation of tillage equipment, the soil surface shall be pitted or trenched across the slope with appropriate hand tools to provide two places 6 to 8 inches apart in which seed may lodge and germinate. Hydraulic seeding may also be used.

Individual Plants

1. Where individual plants are to be set, the soil shall be prepared by excavating holes, opening furrows, or dibble planting.
2. For nursery stock plants, holes shall be large enough to accommodate roots without crowding.
3. Where pine seedlings are to be planted, subsoil under the row 36 inches deep on the contour four to six months prior to planting. Subsoiling should be done when the soil is dry, preferably in August or September.

Innoculants
All legume seed shall be inoculated with appropriate nitrogen-fixing bacteria. The innoculant shall be a pure-culture prepared specifically for the seed species and used within the dates on the container.

A mixing medium recommended by the manufacturer shall be used to bond the innoculant to the seed. For conventional seeding, use twice the amount of innoculant recommended by the manufacturer. For hydraulic seeding, four times the amount of innoculant recommended by the manufacturer shall be used.

All inoculated seed shall be protected from the sun and high temperatures and shall be planted the same day inoculated. No inoculated seed shall remain in the hydroseeder longer than one hour.

Planting
Hydraulic Seeding
Mix the seed (innoculated if needed), fertilizer, and wood cellulose or wood pulp fiber mulch with water and apply in a slurry uniformly over the area to be treated. Apply within one hour after the mixture is made.

Conventional Seeding
Seedbing will be done on a freshly prepared and firmed seedbed. For broadcast planting, use a cultipacker-seeder, drill, rotary seeder, other mechanical seeder, or hand seeding to distribute the seed uniformly over the area to be treated. Cover the seed lightly with 1/8 to 1/4 inch of soil for small seed and 1/2 to 1 inch for large seed when using a cultipacker or other suitable equipment.

No-Till Seeding
No-till seeding is permissible into annual cover crops when planting is done following maturity of the cover crop or if the temporary cover stand is sparse enough to allow adequate growth of the permanent (perennial) species. No-till seeding shall be done with appropriate no-till seeding equipment. The seed must be uniformly distributed and planted at the proper depth.

Individual Plants

Shrubs, vines and sprigs may be planted with appropriate planters or hand tools. Pine trees shall be planted manually in the subsoil furrow. Each plant shall be set in a manner that will avoid crowding the roots.

Nursery stock plants shall be planted at the same depth or slightly deeper than they grew in the nursery. The tips of vines and sprigs must be at or slightly above the ground surface.

Where individual holes are dug, fertilizer shall be placed in the bottom of the hole, two inches of soil shall be added and the plant shall be set in the hole.

Mulching
Mulch is required for all permanent vegetation applications. Mulch applied to seeded areas shall achieve 75% to 100% soil cover. When selecting a mulch, design professionals should consider the mulch's functional longevity, vegetation establishment enhancement, and erosion control effectiveness. Select the mulching material from the following and apply as indicated:

1. *Dry straw or dry hay* of good quality and free of weed seeds can be used. Dry straw shall be applied at the rate of 2 tons per acre. Dry hay shall be applied at a rate of 2 1/2 tons per acre.
2. *Wood cellulose mulch or wood pulp fiber* shall be used with hydraulic seeding. It shall be applied at the rate of 500 pounds per acre. Dry straw or dry hay shall be applied (at the rate indicated above) after hydraulic seeding.
3. One thousand pounds of *wood cellulose or wood pulp fiber*, which includes a tackifier, shall be used with hydraulic seeding on slopes 3/4:1 or steeper.
4. *Sericea Lespedeza* hay containing mature seed shall be applied at a rate of three tons per acre.
5. *Pine straw or pine bark* shall be applied at a thickness of 3 inches for bedding purposes. Other suitable materials in sufficient quantity may be used where ornamentals or other ground covers are planted. This is not appropriate for seeded areas.
6. When using temporary erosion control blankets or block sod, mulch is not required.
7. *Bituminous treated roving* may be applied on planted areas, slopes, in ditches or dry waterways to prevent erosion. Bituminous treated roving shall be applied within 24 hours after an area has been planted. Application rates and materials must meet Georgia Department of Transportation specifications.

Wood cellulose and wood pulp fibers shall not contain germination or growth inhibiting factors. They shall be evenly dispersed when agitated in water. The fibers shall contain a dye to allow visual metering and aid in uniform application during seeding.

Applying Mulch
Straw or hay mulch will be spread uniformly within 24 hours after seeding and/or planting. The mulch may be spread by blower-type spreading equipment, other spreading equipment or by hand. Mulch shall be applied to cover 75% of the soil surface.

Wood cellulose or wood fiber mulch shall be applied uniformly with hydraulic seeding equipment.

Anchoring Mulch
Anchor straw or hay mulch immediately after application by one of the following methods:

1. *Hay and straw mulch* shall be pressed into the soil immediately after the mulch is spread. A special "packer disk" or disk harrow with the disks set straight may be used. The disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disks shall be dull enough to press the mulch into the ground without cutting it, leaving much of it in an erect position. Mulch shall not be plowed into the soil.
2. *Synthetic tackifiers, binders or hydraulic mulch specifically designed to tack straw*, shall be applied in conjunction with or immediately after the mulch is spread. Synthetic tackifiers shall be mixed and applied according to manufacturer's specifications. All tackifiers, binders or hydraulic mulch specifically designed to tack straw should be verified nontoxic through EPA 2021.0 testing. Refer to **Tackifiers-Tac**
3. *Rye or wheat* can be included with Fall and Winter plantings to stabilize the mulch. They shall be applied at a rate of one-quarter to one-half bushel per acre.
4. *Plastic mesh or netting* with mesh no larger than one inch by one inch may be needed to anchor straw or hay mulch on unstable soils and concentrated flow areas. These materials shall be installed and anchored according to manufacturer's specifications.

Bedding Material
Mulch is used as a bedding material to conserve moisture and control weeds in nurseries, ornamental beds, around shrubs, and on bare areas on lawns.

Material	Depth
Grain straw	4" to 6"
Grass Hay	4" to 6"
Pine needles	3" to 5"
Wood waste	4" to 6"

Irrigation
Irrigation will be applied at a rate that will not cause runoff.

Topdressing
Topdressing will be applied on all temporary and permanent (perennial) species planted alone or in mixtures with other species. Recommended rates of application are listed in Table 6-5.1.

Second Year and Maintenance Fertilization
Second year fertilizer rates and maintenance fertilizer rates are listed in Table 6-5.1.

Lime Maintenance Application
Apply one ton of agricultural lime every 4 to 6 years or as indicated by soil tests. Soil tests can be conducted to determine more accurate requirements, if desired.

Use and Management
Mow Sericea Lespedeza only after frost to ensure that the seeds are mature. Mow between November and March.

Bermudagrass, Bahiagrass and Tall Fescue may be mowed as desired. Maintain at least 6 inches of top growth under any use and management. Moderate use of top growth is beneficial after establishment.

Exclude traffic until the plants are well established. Because of the quail nesting season, mowing should not take place between May and September.

Du DUST CONTROL ON DISTURBED AREAS

DEFINITION
CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND DEMOLITION SITES.

CONDITIONS
THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON AND OFF-SITE DAMAGE MAY OCCUR WITHOUT TREATMENT.

METHOD AND MATERIALS
A. TEMPORARY METHODS
- MULCHES. SEE STANDARD Ds1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY). SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL. REFER TO SPECIFICATION Tac - TACKIFIERS. RESINS SHOULD BE USED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- VEGETATIVE COVER. SEE SPECIFICATION Ds2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).
- SPRAY-ON ADHESIVES. THESE ARE USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS. REFER TO SPECIFICATION Tac - TACKIFIERS.
- TILLAGE. THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE THAT SHOULD BE USED BEFORE WIND EROSION STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT THAT MAY PRODUCE THE DESIRED EFFECT.
- IRRIGATION. THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.
- BARRIERS. SOLID BOARD FENCES, SNOWFENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.
- CALCIUM CHLORIDE. APPLY AT RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

B. PERMANENT METHODS
- EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.
- TOPSOILING. THIS ENTAILS COVERING THE SURFACE WITH LESS EROSIVE SOIL MATERIAL. SEE SPECIFICATION Tp - TOPSOILING.
- STONE. COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE SPECIFICATION Cr-CONSTRUCTION ROAD STABILIZATION.

Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)

DEFINITION
APPLYING PLANT RESIDUES OR OTHER SUITABLE MATERIALS, PRODUCED ON THE SITE IF POSSIBLE, TO THE SOIL SURFACE.

REQUIREMENT FOR REGULATORY COMPLIANCE
MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, DEPENDING ON THE MATERIAL USED, ANCHORED AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE.

MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER. TEMPORARY VEGETATION MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS.

IF ANY AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS, PERMANENT VEGETATIVE TECHNIQUES SHALL BE EMPLOYED. REFER TO Ds2 -DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) AND Ds4 - DISTURBED AREA STABILIZATION (WITH SODDING).

SPECIFICATIONS
MULCHING WITHOUT SEEDING
THIS STANDARD APPLIES TO GRADED OR CLEARED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER, BUT CAN BE STABILIZED WITH A MULCH COVER.

SITE PREPARATION
1. GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
2. INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS, TERRACES AND SEDI

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS GAR100001
SWCD: LIMESTONE VALLEY Region 1, Cherokee County (LIA)

Project Name: Fitzgerald Creek WPCP Thermal Dryer Facility Address: 260 Colemans Bluff Drive, Woodstock, GA 30188
Local Issuing Authority: Cherokee County Date on Plans: November 2025
Name & Email of person filling out checklist: Daniel D. Sebusch, dsebusch@hazenandsawyer.com

TO BE SHOWN ON ES&PC PLAN

Plan Page #	Included Y/N		
508	Y	1	The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed. **Permit IV.D.1. pg 27**
501-508	Y	2	Level II certification number issued by the Commission, signature and seal of the certified design professional. Signature, seal and level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed. The Level II certification must be issued to the Design Professional, **after completion of a GSWCC approved course**, and whose signature and seal are on the Plan.
502-504	N	3	Limits of disturbance shall be **less than** 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan must include the GAEPD approval letter and completed Appendix 1 of this checklist with at least 4 of the chosen BMPs. * A copy of the written approval by GAEPD must be attached to the Plan for the Plan to be reviewed. **Permit IV.D.3. pg 28**
505	Y	4	The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
505	Y	5	Provide the name, address, email address, and phone number of Primary Permittee.
502-505	Y	6	Note total and disturbed acreages of the project or phase under construction.
502	Y	7	Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
501-508	Y	8	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
505	Y	9	Descriptions of the nature of construction activity and existing site conditions.
COVER	Y	10	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
505	Y	11	Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
505	Y	12	Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on **Part IV page 20** of the permit.
505	Y	13	Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on **Part IV page 20** of the permit. *
502-504	Y	14	Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect **and certify** the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." *
502-504	Y	15	Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
505	Y	16	Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
502-504	Y	17	Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
502-504	Y	18	Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
502-504	Y	19	Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
502-504	Y	20	Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
502-504	Y	21	Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
502-505	N	22	Any construction activity which discharges storm water into a Biota Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as any portion of an Biota Impaired Stream Segment, must comply with **Part III.C.** of the permit. Include the completed Appendix 1 of this checklist with at least 4 of the chosen BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
-	N	23	If a TMDL Implementation Plan for sediment has been finalized for the Biota Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
505	Y	24	BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Include statement that washout of the drum at the construction site is prohibited. *
505	Y	25	Provide BMPs for the remediation of all petroleum spills and leaks.
505	Y	26	Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
505	Y	27	Description of practices to provide cover for building materials and building products on site. *
505	Y	28	Description of the practices that will be used to reduce the pollutants in storm water discharges. *
505	Y	29	Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, grading, infrastructure, temporary and final stabilization).
506	Y	30	Provide complete requirements of Inspections and record keeping by the Primary Permittee. *
506	Y	31	Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
506	Y	32	Provide complete details for Retention of Records as per **Part IV.F.** of the permit. *
506	Y	33	Description of analytical methods to be used to collect and analyze the samples from each location. *
506	Y	34	Appendix B rationale for NTU values at all outfall sampling points where applicable. *
501,506	Y	35	Delineate all sampling locations on **all phases of** the Plan, and perennial and intermittent streams and other water bodies into which storm water is discharged. *
505	Y	36	A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial sediment storage requirements and initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all BMPs into a single phase plan. *
501-504	Y	37	Graphic scale and North arrow.
501-504	Y	38	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or larger scale	Flat 0 - 2%	0.5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2, 5 or 10

-	N	39	Use of Alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.
-	N	40	Use of alternative BMP for application to the Equivalent BMP List. Refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
501	Y	41	Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State Waters and any additional buffers as required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
501	Y	42	Delineation of all State Waters and wetlands located on or within 200 feet of the project site.
506	Y	43	Delineation and acreage of contributing drainage basins on the project site.
506	Y	44	Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *
506	Y	45	Estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed. **For solar farm** projects, post-construction impervious area shall be calculated as 70% of total solar panel square footage.
-	N	46	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate at all storm water discharge points.
501	Y	47	Soil series for the project site and their delineation.
502-504	Y	48	The limits of disturbance for each phase of construction.
502	Y	49	Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, Permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.
502-504	Y	50	Location of Best Management Practices that are consistent with, and no less stringent than, the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual Chapter 6, with legend.
507	Y	51	Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
507	Y	52	Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

*** If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.**

Effective January 1, 2025

*** NOTE: ALL REFERENCED PLAN PAGE #S (I.E., DRAWING NUMBERS) BEGIN WITH "01-C-".**

GSWCC Georgia Soil and Water Conservation Commission
Daniel D Sebusch
Level II Certified Design Professional
CERTIFICATION NUMBER 0000054172
ISSUED: 06/25/2023 EXPIRES: 06/25/2026

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: M. ORR
DRAWN BY: M. SEEBOLD
CHECKED BY: B. JONES
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HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN DETAILS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-C-508

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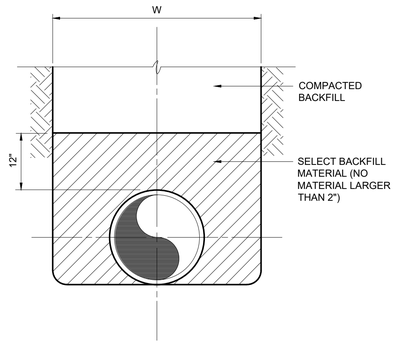
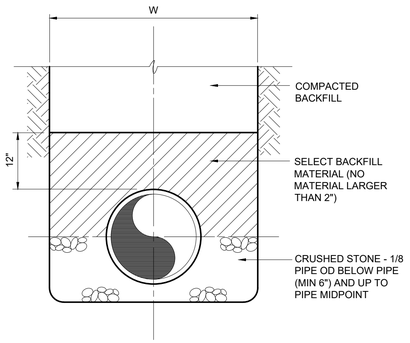


TYPE A

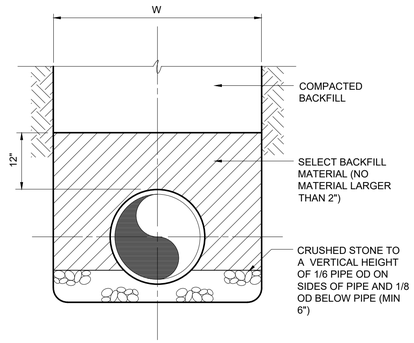
IN EARTH

C-01-0100



TYPE B

C-01-0102



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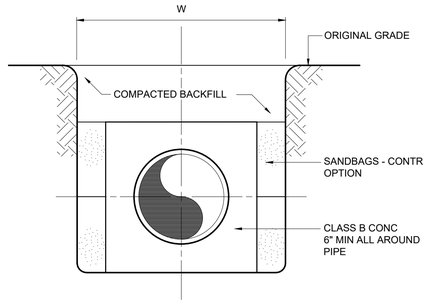
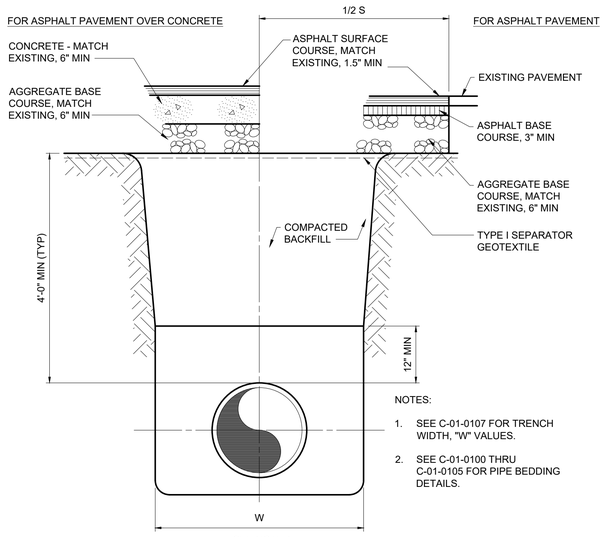


CONCRETE ENCASEMENT

(SEE NOTE 1)

C-01-0104



NOTES:

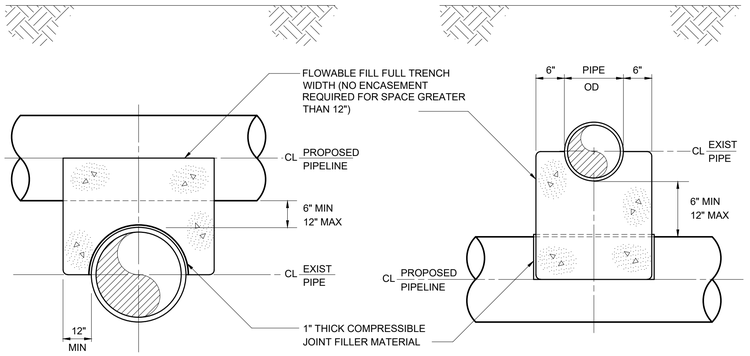
1. SEE C-01-0107 FOR TRENCH WIDTH, "W" VALUES.
2. SEE C-01-0100 THRU C-01-0105 FOR PIPE BEDDING DETAILS.

TYPICAL TRENCH

C-01-0106

TRENCH EXCAVATION LIMITS		
INTERNAL DIAMETER OF PIPE	W WIDTH OF TRENCH	
	MAX	W=MIN
4"-6"	3'-9"	2'-0"
8"-10"	3'-9"	2'-2"
12"	3'-9"	O.D.+2'
14"-16"	4'-2"	O.D.+2'
18"	4'-4"	O.D.+2'
20",21"	4'-8"	O.D.+2'
24"	4'-11"	O.D.+2'
27"	5'-9"	O.D.+2'
30"	6'-7"	O.D.+2'
36"	7'-4"	O.D.+2'
42"	8'-2"	O.D.+2'
48"	8'-9"	O.D.+2'
54"	9'-4"	O.D.+2'
60"	9'-10"	O.D.+2'
72"	11'-0"	O.D.+2'
78"	11'-8"	O.D.+2'
84"	12'-0"	O.D.+2'
90"	12'-6"	O.D.+2'
96"	13'-0"	O.D.+2'
108"	14'-0"	O.D.+2'
DEPTH OF CUT	S MAXIMUM PAVEMENT REPLACEMENT WIDTH	
0-6'	S=W+4'	
>6-8'	S=W+8'	
>8-10'	S=W+12'	
>10-12'	S=W+16'	
>12-14'	S=W+20'	
>14-16'	S=W+24'	
>16-18'	S=W+28'	
>18'	S=W+32'	
W = TRENCH WIDTH AT BOTTOM OF PIPE. TRENCH SIDE SLOPES SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS.		

C-01-0107



PROPOSED PIPELINE OVER EXIST PIPE

PROPOSED PIPELINE UNDER EXIST PIPE

C-01-0120

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH

DESIGNED BY: M. ORR

DRAWN BY: M. SEEBOLD

CHECKED BY: B. JONES

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HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
DETAILS

DATE: NOVEMBER 2025

HAZEN NO.: 32307-007

CCWSA NO.: 2022_007

DRAWING NUMBER: 01-C-601

File: C:_DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-601 Saved by MSEEBOLD Save date: 2/25/2026 8:21 AM
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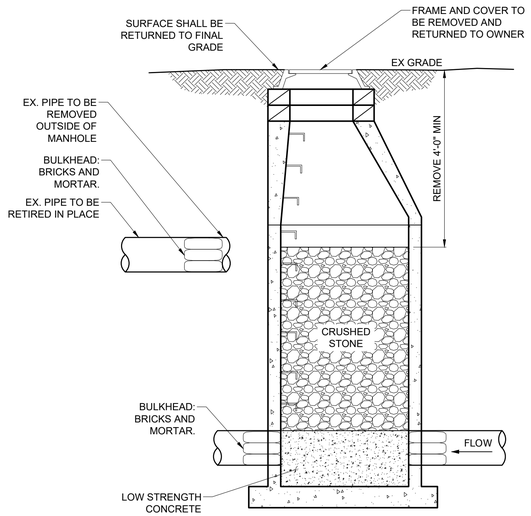
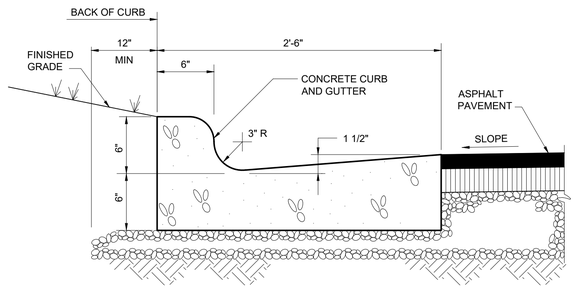


MANHOLE AND PIPE ABANDONMENT

DETAIL	1
NTS	01-C-602

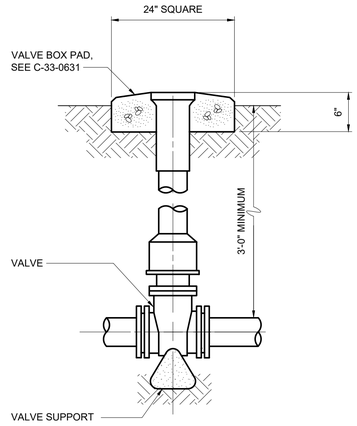


NOTES:

1. CONTRACTION JOINTS SHALL BE PLACED AT 10 FOOT INTERVALS, OR 15 FOOT INTERVALS WHEN A MACHINE IS USED TO PLACE THE CURB.
2. EXPANSION JOINTS SHALL BE PLACED AT 90 FOOT INTERVALS AND ADJACENT TO ALL RIGID OBJECTS.

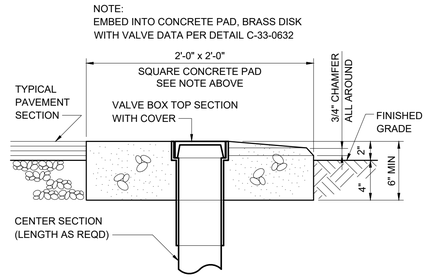
CURB AND GUTTER

C-32-0530



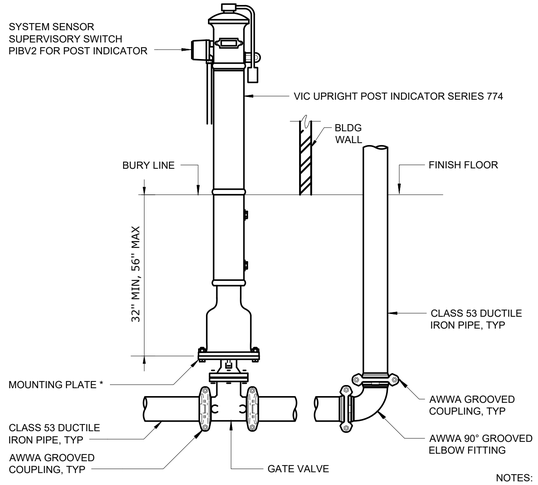
VALVE BOX

C-33-0630



VALVE BOX PAD

C-33-0631



UPRIGHT POST INDICATOR VALVE

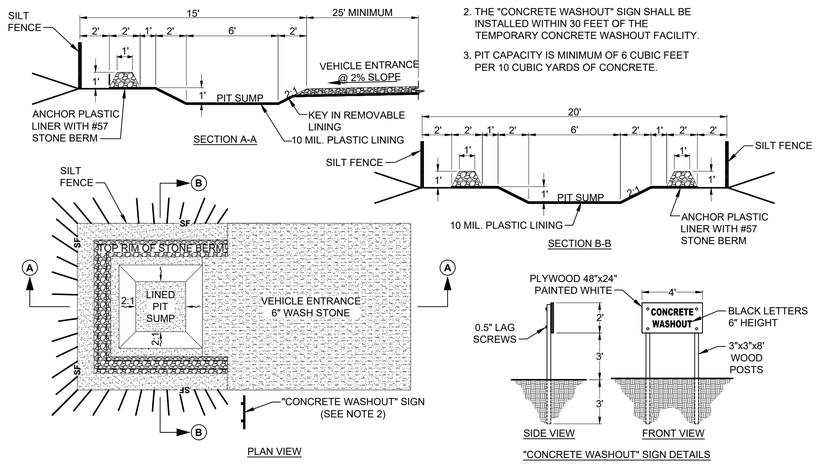
DETAIL	2
NTS	01-C-602

NOTES:

1. ITEM NUMBER 1 REFERENCE MANUFACTURERS INSTALLATION GUIDELINES, AND MOUNTING INSTRUCTIONS.
2. *GATE VALVES MUST BE EQUIPPED WITH A MOUNTING PLATE ACCORDING TO MANUFACTURER RECCOMENDATIONS

NOTES:

1. ACTUAL LAYOUT TO BE DETERMINED IN FIELD.
2. THE "CONCRETE WASHOUT" SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. PIT CAPACITY IS MINIMUM OF 6 CUBIC FEET PER 10 CUBIC YARDS OF CONCRETE.



CONCRETE WASHOUT PIT

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	M. ORR
DRAWN BY:	M. SEEBOLD
CHECKED BY:	B. JONES

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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

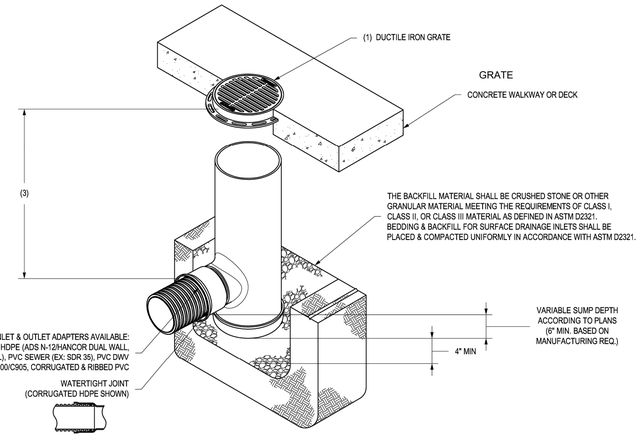
FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL DETAILS

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA NO.:	2022_007
DRAWING NUMBER:	01-C-602

File: C:_DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-602 Saved by MSEEBOLD Save date: 2/25/2026 8:23 AM
PLOT DATE: 2/25/2026 9:26 AM BY: MSEEBOLD

NYLOPLAST 10" DRAIN BASIN: 2810AG



1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - CUSTOM DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
3 - STANDARD DRAIN BASIN HAS FIXED ADAPTER LOCATIONS OF 0° & 180°. CUSTOM DRAIN BASIN ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL) & PVC SEWER (4" -10").

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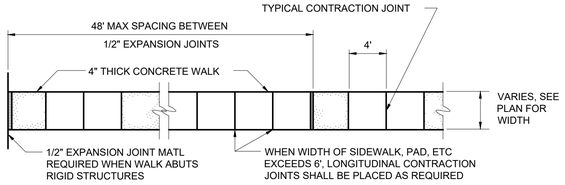
DRAWN BY	NMH	MATERIAL	
DATE	6-25-18		
APPD BY	NMH	PROJECT NO./NAME	
DATE	6-25-18		
DWG SIZE	A	SCALE 1:12	SHEET 1 OF 1

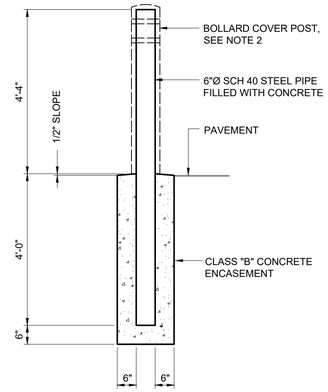
ADS Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2496
www.nyloplast-us.com

TITLE: 10 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL
DWG NO. 7001-110-273 REV F



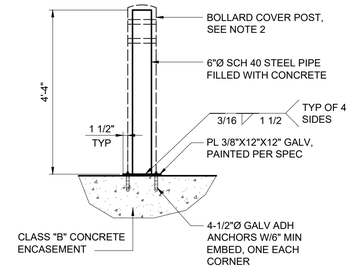
TYPICAL CONCRETE WALKWAY

C-32-0520



BOLLARD TYPE 1

2

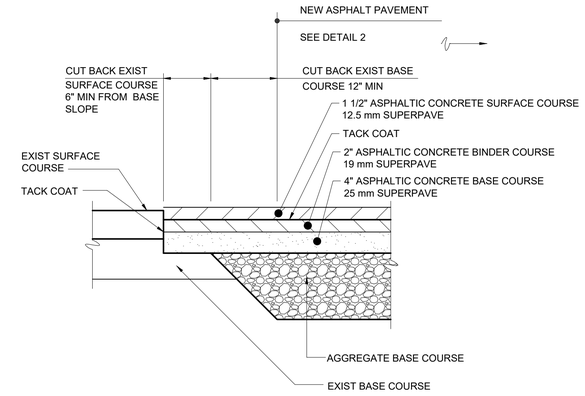


BOLLARD TYPE 3

C-32-0540

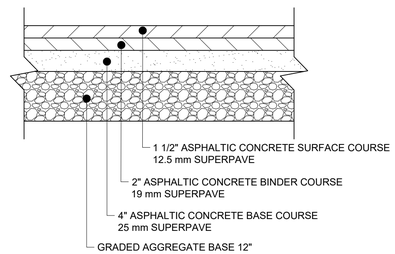
NOTES:

1. UNLESS OTHERWISE NOTED, ALL BOLLARDS SHALL BE TYPE 1.
2. BOLLARD COVER SHALL BE POST GUARD MODEL CL1386F 7"Ø x52" HIGH, YELLOW WITH REFLECTIVE RED STRIPES, OR APPROVED EQUAL AND SECURED TO STEEL PIPE WITH COMPRESSIVE FOAM STRIPS.

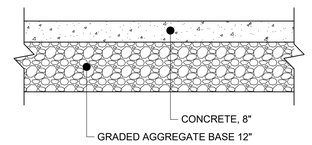


TYPICAL PAVEMENT JUNCTION

DETAIL 1 | NTS | 01-C-603



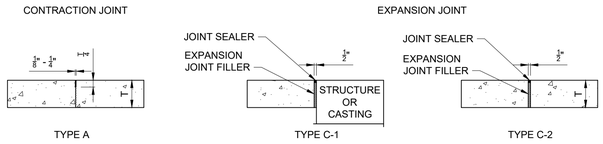
TYPICAL ASPHALT SECTION



TYPICAL CONCRETE SECTION
SEE CONCRETE JOINT DETAIL #3

ASPHALT AND CONCRETE PAVING

DETAIL 2 | NTS | 01-C-603



TRANSVERSE CONTRACTION OR LONGITUDINAL JOINT, SAWED OR PREFORMED

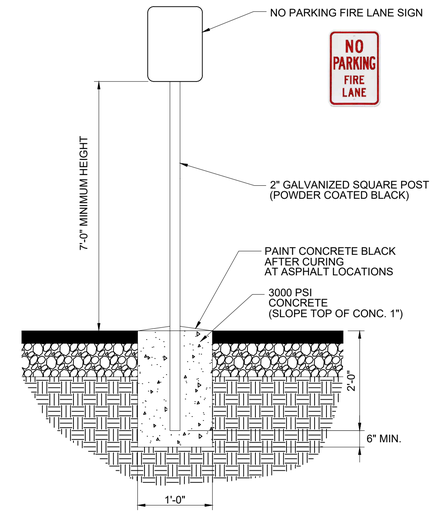
CONCRETE PAVEMENT NOTES:

1. CONCRETE SPECIFICATION SHALL MEET THE REQUIREMENTS OF SECTION 430 FOR CONCRETE PAVING JOBS OF 50,000 SQ YDS OR LESS OF THE GA DEPT. OF TRANSPORTATION, STANDARD SPECIFICATIONS, CONSTRUCTION OF ROADS AND BRIDGES (LATEST VERSION), AND THE SUPPLEMENT IN EFFECT AT THE TIME OF BID OPENING. EXCEPTIONS ARE NOTED IN NOTES BELOW.
2. MAXIMUM JOINT SPACING SHALL BE 17 FEET. JOINTS SHALL BE FORMED AS TO PROVIDE SLABS THAT ARE AS NEAR TO SQUARE AS PRACTICALLY POSSIBLE.
3. CONCRETE SHALL BE 4000 PSI @ 26 DAYS. AIR ENTRAINMENT SHALL BE 5.0% WITH A FIELD TOLERANCE OF 1.5%±.
4. EXPANSION JOINTS ARE TO BE INSTALLED BETWEEN POURED CONCRETE AND ANY IMMOVABLE OBJECT. IMMOVABLE OBJECTS INCLUDE, BUT ARE NOT LIMITED TO: CONCRETE PAVEMENT, BUILDING SLABS, FOOTINGS, RETAINING WALLS & DRAINAGE STRUCTURES
5. EXPANSION JOINTS ARE TO BE INSTALLED PERPENDICULAR TO BUILDING AT A MAXIMUM SPACING OF 60'.
6. CRACKING CONTROL JOINTS ARE TO BE INSTALLED PERPENDICULAR TO BUILDING AT A MAXIMUM SPACING OF 20'
7. AN EXPANSION JOINT MAY BE USED IN PLACE IN OF A CRACKING CONTROL JOINT, MUST BE INSTALLED AT THE CRACKING CONTROL JOINT INTERVAL.
8. EXPANSION JOINTS ARE TO BE INSTALLED AT A MAXIMUM SPACING OF 60' IN 2 DIRECTIONS.

CONCRETE JOINTS

DETAIL 3 | NTS | 01-C-603

2



"NO PARKING FIRE LANE" SIGN

DETAIL 4 | NTS | 01-C-603

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: M. ORR
DRAWN BY: M. SEEBOLD
CHECKED BY: B. JONES

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY DANIEL D. SEBUSCH, P.E. No. 030101 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

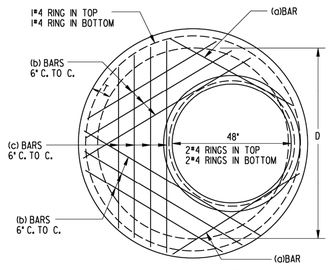
FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL DETAILS

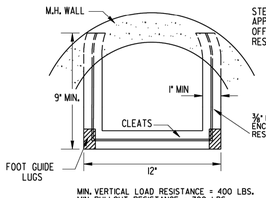
DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-C-603

File: C:_DC\ACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-603 Saved by MSEEBOLD Save date: 2/25/2026 8:24 AM
PLOT DATE: 2/25/2026 9:26 AM BY: MSEEBOLD

GDOT Georgia Department of Transportation | P.I. No. XXXXXXX



PLAN OF STEEL REINFORCEMENT

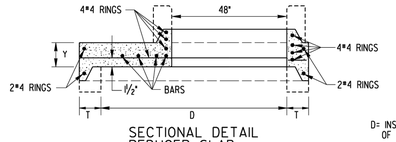


STEP SHALL BE OF TYPE APPROVED BY GA. D.O.T. OFFICE OF MATERIALS AND RESEARCH.

¾" DIAM. REINFORCING ROD (MIN.) ENCASED IN A CORROSION-RESISTANT RUBBER OR PLASTIC

MIN. VERTICAL LOAD RESISTANCE = 400 LBS.
MIN. PULLOUT RESISTANCE = 700 LBS.

STEP DETAIL



SECTIONAL DETAIL
REDUCER SLAB

REDUCER SLAB - REINF. AND DIMENSIONS							
D	Y MIN.	(a) BARS		(b) BARS		(c) BARS	
		NO.	SIZE	NO.	SIZE	NO.	SIZE
60"	8"	2	#6	4	#6	2	#6
72"	9"	2	#6	6	#6	4	#6

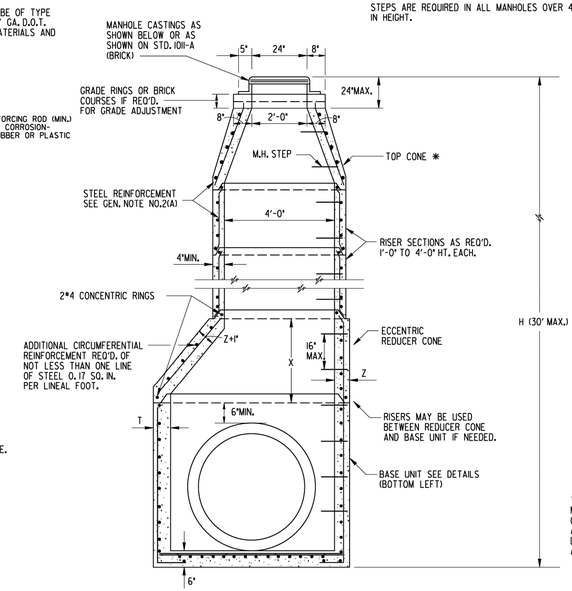
NOTE:
10 FT. MAXIMUM ALLOWANCE COVER ABOVE TOP OF REDUCER SLABS. REDUCER CONES TO BE USED WHERE REDUCER SLABS NOT PERMITTED.

D= INSIDE DIAMETER OF BASE UNIT

NOTE:
25 FT. MAXIMUM ALLOWABLE COVER ABOVE REDUCER CONE.

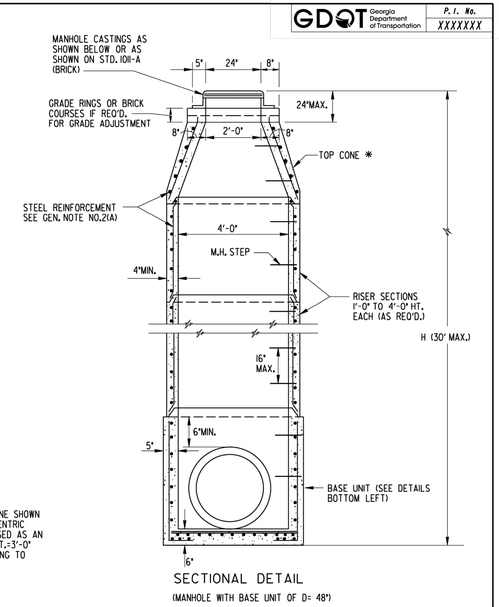
D	X(MIN)	Z(MIN)
60"	1'-6"	5"
72"	3'-0"	6"

STEPS ARE REQUIRED IN ALL MANHOLES OVER 4 FT. IN HEIGHT.



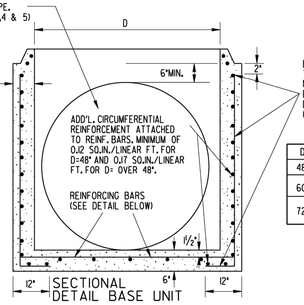
SECTIONAL DETAIL
(MANHOLE WITH BASE UNIT OF D=OVER 48")

* CONCENTRIC CONE SHOWN MIN. HT.=2'-0" ECCENTRIC CONES MAY BE USED AS AN ALTERNATE, MIN. HT.=3'-0" DESIGNED ACCORDING TO A.S.T.M. C-478



SECTIONAL DETAIL
(MANHOLE WITH BASE UNIT OF D= 48")

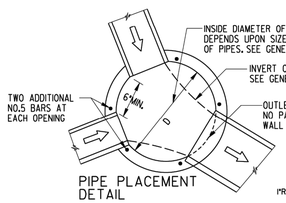
PRECAST HOLE FOR PIPE. (SEE GEN. NOTES NO. 3,4 & 5)



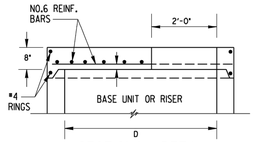
SECTIONAL DETAIL BASE UNIT

BASE UNIT SHALL CONTAIN IN ADDITION TO A.S.T.M. C-478 REINFORCEMENT, TWO NO.5 VERTICAL BARS AT EACH OPENING EXTENDING FROM WITHIN 2" OF JOINT DOWN WALL INTO BOTTOM SLAB AS SHOWN. (MINIMUM 2" CLEARANCE AROUND)

D	T(MIN.)
48"	5"
60"	5"
72"	6"



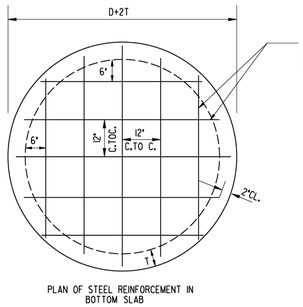
PIPE PLACEMENT DETAIL



SECTIONAL DETAIL

GENERAL NOTES:

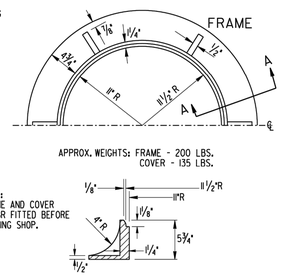
1. MATERIALS: ALL CONCRETE, STEEL BARS AND STEEL WIRE REINFORCEMENT SHALL COMPLY WITH SECTION 866.02 OF GEORGIA STANDARD SPECIFICATIONS AND SPECIAL PROVISION WHICH MODIFY SECTION 866.02.
2. REINFORCEMENT:
   (A) PLACEMENT AND DESIGN OF STEEL REINFORCEMENT IN RISER UNITS, CONE SECTIONS, GRADE RINGS AND JOINTS SHALL BE IN COMPLIANCE WITH A.S.T.M. C-478 UNLESS OTHERWISE NOTED.
   (B) BASE UNITS, REDUCER SLABS AND FLAT TOP SLABS SHALL HAVE STEEL REINFORCEMENT AS SHOWN IN DETAILS AT LEFT.
3. OPENINGS FOR PIPES LARGER THAN 6 INCHES IN DIAMETER ARE TO BE PRECAST. A MINIMUM OF 6" ALONG THE INTERCIRCUMFERENCE IS TO REMAIN BETWEEN THE EXTREMITIES OF HOLE FOR ADJACENT PIPE IN ANY SINGLE UNIT. A MINIMUM OF TWO REINF. BARS SHALL REMAIN IN WALL BETWEEN ANY TWO OPENINGS.
4. THE CONTRACTOR WILL FURNISH THE FABRICATOR WITH THE ANGLE OF ALIGNMENT AND SIZE OF ALL PIPES TO ENTER MANHOLE AND THE HEIGHT OF STRUCTURE.
5. BASE UNITS SHALL HAVE SUFFICIENT HEIGHT TO ALLOW FOR MINIMUM OF 6" OF WALL BETWEEN TOP OF HIGHEST OPENING FOR PIPES AND BOTTOM OF JOINT.
6. INVERT CHANNELS:
   (A) FOR SANITARY SEWER MANHOLES SEE GEORGIA STANDARD SPECIFICATIONS FOR CHANNEL REQUIREMENTS.
   (B) FOR STORM SEWER MANHOLES, CHANNELS BUILT TO SUIT PIPE SIZE AND LOCATION. HEIGHT OF CHANNEL EQUAL TO ½ DIAMETER OF OUTLET PIPE. CHANNEL BUILT FROM GROUT OR CLASS "A" CONCRETE.
7. PIPES ARE TO BE EXTENDED INTO STRUCTURE WALL A MINIMUM OF 4" BUT SHOULD NOT EXTEND BEYOND INTERIOR WALL OF STRUCTURE.
8. ALL JOINTS, EXCEPT FOR GRADE RINGS AND TOP OF TOP CONE, SHALL HAVE TONGUE AND GROOVE SECTION.



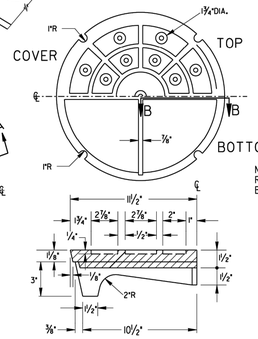
PLAN OF STEEL REINFORCEMENT IN BOTTOM SLAB

BASE UNIT

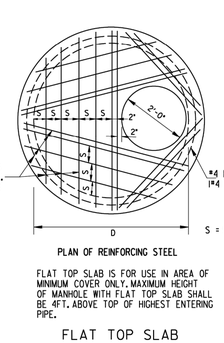
D	BAR SIZE
48"	#5
60"	#6
72"	#6



SECTION A-A



SECTION B-B



PLAN OF REINFORCING STEEL

FLAT TOP SLAB IS FOR USE IN AREA OF MINIMUM COVER ONLY. MAXIMUM HEIGHT OF MANHOLE WITH FLAT TOP SLAB SHALL BE 4FT. ABOVE TOP OF HIGHEST ENTERING PIPE.

FLAT TOP SLAB

MANHOLE CASTINGS (C.I.)

BY	DATE	REVISION
R.M.U.	CASTINGS & BASE U.	
	6-1-75	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
PRECAST REINFORCED CONCRETE MANHOLES

NOT TO SCALE | REDRAWN JULY 2024 | AUGUST 1973

DESIGNED G.C.L. (SUBMITTED) J. L. Rutter
R.M.U. STATE ROAD DESIGN ENGINEER
DRAWN R.M.U. (APPROVED)
CHECHED J.R.C. STATE HIGHWAY ENGINEER

NUMBER 1011A PRECAST

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE — 0 1/2" 1"

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: M. ORR
DRAWN BY: M. SEEBOLD
CHECKED BY: B. JONES

CONFORMED DRAWING

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Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

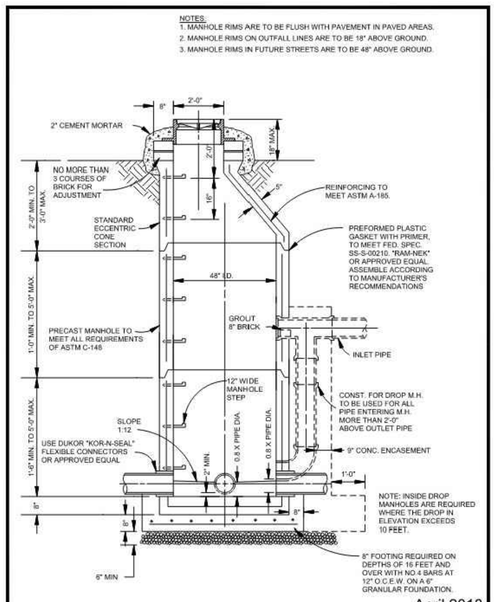
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
DETAILS

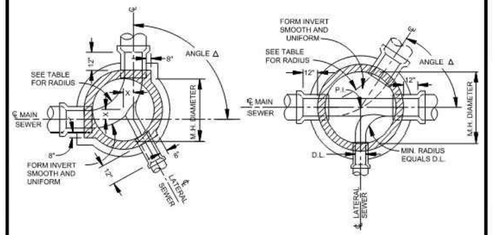
DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-C-604

File: C:_DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-604 Saved by MSEEBOLD Save date: 2/25/2026 8:28 AM
PLOT DATE: 2/25/2026 9:29 AM BY: MSEEBOLD



April 2018

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY	Precast Concrete Manhole CONSTRUCTION STANDARD	STANDARD DETAIL NO. S-01

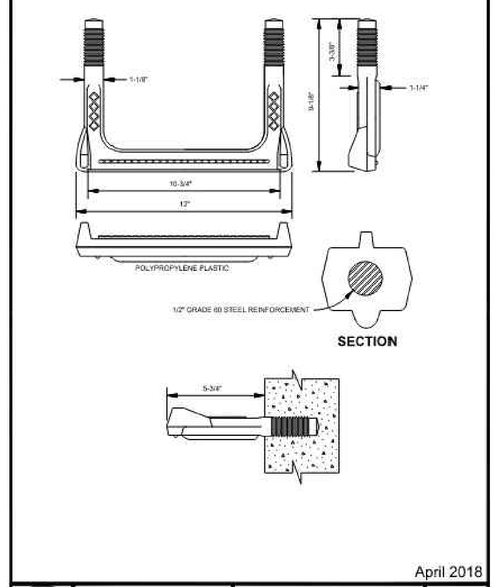


STANDARD MANHOLE
SCHEDULE OF GOVERNING DIMENSIONS

PIPE SIZE	ANGLE Δ	MANHOLE DIAMETER	"R"	"X"
8" TO 18"	0° TO 90°	4'-0"	2'-0"	0"
21" & 24"	0° TO 60°	4'-0"	2'-0"	6"
21" & 24"	60° TO 70°	5'-0"	2'-0"	6"
21" & 24"	70° TO 80°	5'-0"	2'-0"	4" 1/2"
21" & 24"	80° TO 90°	5'-0"	2'-0"	10 1/2"
30" & 36"	0° TO 60°	5'-0"	3'-0"	8"
30" & 36"	60° TO 70°	6'-0"	3'-0"	10"
30" & 36"	70° TO 80°	6'-0"	3'-0"	13"
30" & 36"	80° TO 90°	6'-0"	3'-0"	16"
42"	0° TO 35°	6'-0"	3'-0"	3"
42"	35° TO 50°	6'-0"	6'-0"	6"
42"	50° TO 90°	7'-0"	6'-0"	0"
48" & 54"	0° TO 35°	6'-0" & 7'-0"	6'-0"	0"
48" & 54"	35° TO 90°	8'-0"	6'-0"	0"

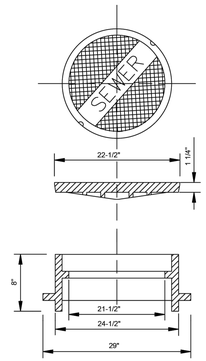
April 2018

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY	Standard Manhole Plans CONSTRUCTION STANDARD	STANDARD DETAIL NO. S-05



April 2018

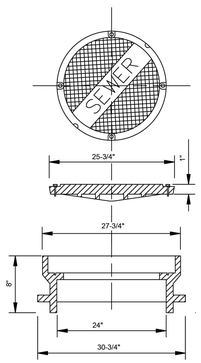
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY	Manhole Step CONSTRUCTION STANDARD	STANDARD DETAIL NO. S-06



NOTE: PICK HOLES SHALL NOT PENETRATE THE COVER.

April 2018

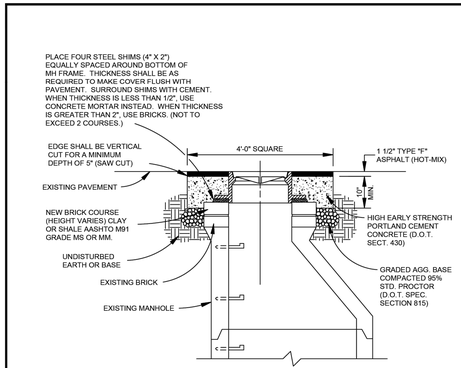
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY	Standard Manhole Frame & Cover CONSTRUCTION STANDARD	STANDARD DETAIL NO. S-07



NOTE: PICK HOLES SHALL NOT PENETRATE THE COVER.

April 2018

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY	Water-Tight Manhole Frame & Cover CONSTRUCTION STANDARD	STANDARD DETAIL NO. S-08

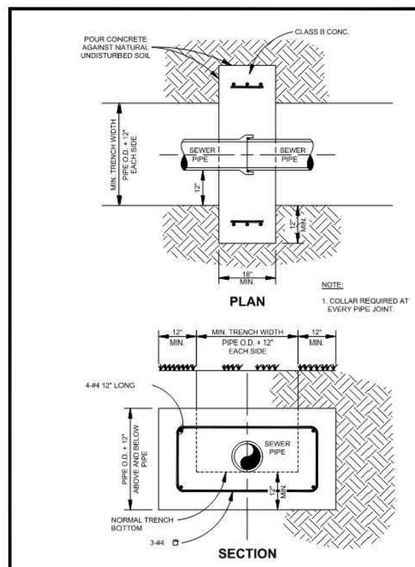


NOTES:

1. PORTLAND CONCRETE FOR COLLAR SHALL BE A MIN. OF 10" THICK AND SHALL EXTEND FROM THE LAST FULL COURSE OF BRICK TO 1 1/2" BELOW THE EXISTING PAVEMENT.
2. THE CONTRACTOR HAS THE OPTION OF USING PORTLAND CONCRETE FOR THE FULL DEPTH (FROM THE ASPHALT TO UNDISTURBED EARTH) OR AS SHOWN ABOVE.
3. THE CONCRETE SHALL BE LEFT WITH A RAKED FINISH TO PROVIDE A ROUGH SURFACE FOR THE ASPHALT TO BOND TO BITUMINOUS TACK AND ASPHALT SHALL BE PLACED PER CURRENT D.O.T. SPECIFICATIONS.
4. STEEL PLATES MAY BE REQUIRED BY THE AUTHORITY IN HIGH TRAFFIC AREAS TO PROTECT THE FRESH CONCRETE FOR A MINIMUM OF 40 HOURS. IN THESE HIGH TRAFFIC AREAS BARRICADES, CONES, ETC. WILL NOT BE ALLOWED.
5. BEFORE WORKING IN AN AREA, THE CONTRACTOR SHALL NOTIFY THE AUTHORITY.

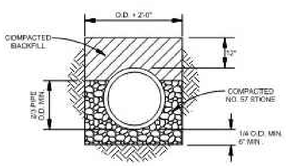
April 2018

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY	Manhole Frame-Grade Adjustment CONSTRUCTION STANDARD	STANDARD DETAIL NO. S-09



April 2018

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY	Sewer Pipe Anchor Slopes 20% or more CONSTRUCTION STANDARD	STANDARD DETAIL NO. S-18



NOTE: IF PVC SANITARY SEWER LINE IS CONSTRUCTED IN 100 YEAR FLOOD PLAIN OR BELOW GROUNDWATER TABLE, COMPACTED CLASS 1 MATERIAL IS REQUIRED TO THE TOP OF THE PIPE.

April 2018

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY	Minimum P.V.C. Pipe Bedding CONSTRUCTION STANDARD	STANDARD DETAIL NO. S-22

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0, 1/2", 1")

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: M. ORR
DRAWN BY: M. SEEBOLD
CHECKED BY: VALUE

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY DANIEL D. SEBUSCH, P.E. No. 030101 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

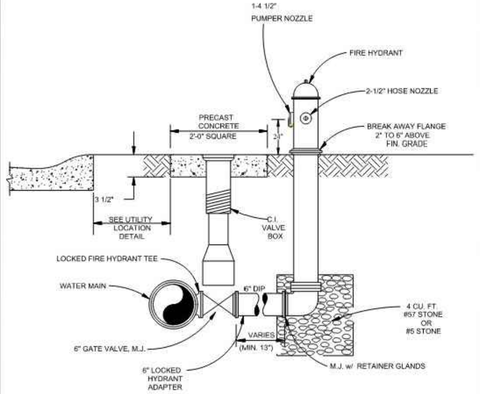
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
DETAILS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-C-605

File: C:_DC\ACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-605 Saved by MSEEBOLD Save date: 2/25/2026 8:30 AM
PLOT DATE: 2/25/2026 9:26 AM BY: MSEEBOLD



NOTES:

1. 4 1/2" PUMPER NOZZLE TO FACE STREET
2. HYDRANT NOT TO BE SET ON STREET SIDE OF WATER MAIN
3. VALVE BOX TO BE ADJUSTED TO GRADE
4. CONCRETE COLLAR AROUND VALVE BOX IF NOT IN PAVED AREA
5. GRAVEL TO BE PLACED AROUND HYDRANT DRAIN, MINIMUM DIMENSIONS 20" x 20" x 20"

April 2018

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY	Typical Fire Hydrant Installation CONSTRUCTION STANDARD	STANDARD DETAIL NO. W-02

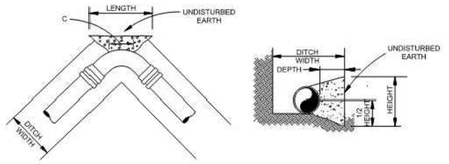


TABLE FOR CONCRETE BLOCKING
(250 PSI TEST PRESSURE)

MINIMUM DIMENSIONS OF BLOCKING

FITTING	SIZE	DEPTH (FT.)	LENGTH (FT.)	"C" (IN.)	HEIGHT (FT.)	VOLUME (C.Y.)	THRUST (LB.)
11 1/4° BEND	6"	1.0	2.0	6	1.0	0.04	1,385
11 1/4° BEND	8"	1.0	2.0	7	1.0	0.05	2,465
11 1/4° BEND	10"	1.0	2.0	9	1.0	0.07	3,850
11 1/4° BEND	12"	1.0	2.5	11	1.5	0.12	5,550
11 1/4° BEND	16"	2.0	2.5	12	2.1	0.26	9,860
11 1/4° BEND	20"	2.0	3.5	15	2.5	0.48	15,406
11 1/4° BEND	24"	2.0	4.0	18	3.0	0.70	22,185
22 1/2° BEND	6"	1.0	2.0	6	1.0	0.04	2,760
22 1/2° BEND	8"	1.0	2.0	7	1.5	0.06	4,905
22 1/2° BEND	10"	1.0	2.0	9	2.0	0.10	7,665
22 1/2° BEND	12"	1.0	3.0	11	2.0	0.16	11,040
22 1/2° BEND	16"	2.0	3.5	12	3.0	0.45	19,625
22 1/2° BEND	20"	2.0	4.0	15	4.0	0.74	30,665
22 1/2° BEND	24"	3.0	5.0	18	4.5	1.47	44,160
45° BEND	6"	1.0	2.0	6	1.5	0.06	5,415
45° BEND	8"	1.0	2.5	7	2.0	0.10	9,625
45° BEND	10"	2.0	3.5	9	2.5	0.31	15,040
45° BEND	12"	2.0	3.5	11	3.0	0.41	21,655
45° BEND	16"	3.0	5.0	12	4.0	1.45	38,495
45° BEND	20"	4.0	6.0	15	5.0	2.05	60,145
45° BEND	24"	4.0	7.5	18	6.5	3.35	91,610
90° BEND	6"	1.0	2.5	12	2.0	0.13	10,005
90° BEND	8"	2.0	3.0	14	3.0	0.38	17,785
90° BEND	10"	2.5	4.5	18	3.0	0.74	27,785
90° BEND	12"	3.0	5.0	20	4.0	1.24	40,000
90° BEND	16"	4.0	6.5	26	5.5	2.91	71,125
90° BEND	20"	4.0	8.0	32	7.0	4.68	111,135
90° BEND	24"	5.0	10.0	40	8.0	8.50	160,035

NOTES:

1. SOIL BEARING STRENGTH OF 2000 PSI IS ASSUMED IN THE CALCULATIONS ABOVE. ENGINEER SHALL VERIFY.
2. COVER GLANDS AND BOLTS WITH POLYETHYLENE BEFORE PLACING CONCRETE.
3. ALLOW CONCRETE TO SET UP A MINIMUM OF 6 HOURS BEFORE PLACING BACKFILL.
4. CONCRETE SHALL BE 3000 PSI, CLASS A.
5. ALL IRON FITTINGS SHALL BE BLOCKED AND SUPPORTED AS SHOWN ABOVE.
6. VERTICAL BENDS WITH AN UPWARD THRUST SHALL BE RESTRAINED AS SHOWN IN STANDARD W-12.
7. VERTICAL BENDS WITH A DOWNWARD THRUST SHALL BE RESTRAINED AS SHOWN IN STANDARD W-13.

April 2018

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY	Concrete Blocking For Bends CONSTRUCTION STANDARD	STANDARD DETAIL NO. W-10

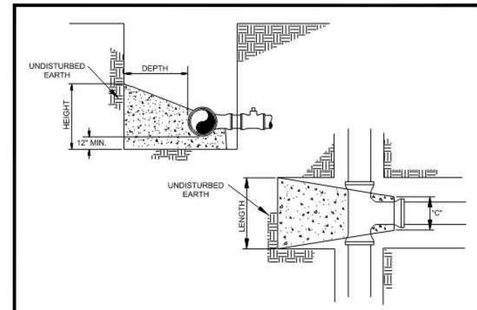


TABLE FOR CONCRETE BLOCKING
(250 PSI TEST PRESSURE)

MINIMUM DIMENSIONS OF BLOCKING

SIZE	DEPTH (FT.)	LENGTH (FT.)	"C" (IN.)	HEIGHT (FT.)	VOLUME (C.Y.)	THRUST (LB.)
6"	1.0	2.5	12	1.5	0.10	7,070
8"	1.7	3.25	14	2.0	0.27	12,565
10"	2.0	4.0	18	2.5	0.50	19,635
12"	2.5	4.5	20	3.25	0.91	28,275
16"	3.0	5.0	26	5.0	1.77	50,265
20"	4.0	7.0	32	5.75	3.69	78,540
24"	6.0	9.0	40	6.5	7.94	113,100

NOTES:

1. SOIL BEARING STRENGTH OF 2000 PSI IS ASSUMED IN THE CALCULATIONS ABOVE. ENGINEER SHALL VERIFY.
2. COVER GLANDS AND BOLTS WITH POLYETHYLENE BEFORE PLACING CONCRETE.
3. ALLOW CONCRETE TO SET UP A MINIMUM OF 6 HOURS BEFORE PLACING BACKFILL.
4. CONCRETE SHALL BE 3000 PSI, CLASS A.
5. ALL IRON FITTINGS SHALL BE BLOCKED AND SUPPORTED AS SHOWN ABOVE.

April 2018

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY	Concrete Blocking For Tee's & Plugs CONSTRUCTION STANDARD	STANDARD DETAIL NO. W-11

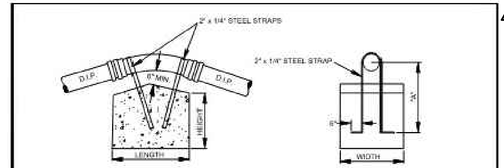


TABLE FOR CONCRETE BLOCKING
(250 PSI TEST PRESSURE)

MINIMUM DIMENSIONS OF BLOCKING

FITTING	SIZE	HEIGHT (FT.)	LENGTH (FT.)	WIDTH (FT.)	VOLUME (C.Y.)	"A" (IN.)	LENGTH OF STRAP (IN.)
11 1/4° BEND	6"	2.0	2.0	2.5	0.37	24	66.5
11 1/4° BEND	8"	3.0	2.2	2.5	0.51	24	72.0
11 1/4° BEND	10"	3.0	3.0	3.0	1.00	26	86.0
11 1/4° BEND	12"	3.0	4.0	3.0	1.33	30	91.0
11 1/4° BEND	16"	3.5	5.0	4.5	2.50	30	97.0
11 1/4° BEND	20"	3.3	6.0	5.0	3.57	36	115.0
11 1/4° BEND	24"	4.0	6.5	5.5	5.30	36	122.5
22 1/2° BEND	6"	2.5	3.0	2.5	0.69	24	69.5
22 1/2° BEND	8"	3.1	3.3	3.0	1.21	24	72.5
22 1/2° BEND	10"	3.2	4.0	4.0	1.90	26	86.0
22 1/2° BEND	12"	3.5	5.0	4.5	2.92	30	91.0
22 1/2° BEND	16"	4.7	9.5	5.0	4.78	36	109.0
22 1/2° BEND	20"	6.0	9.0	5.7	7.90	45	133.0
22 1/2° BEND	24"	8.0	9.7	6.5	10.98	66	170.0

NOTES:

1. COVER GLANDS AND BOLTS WITH POLYETHYLENE BEFORE PLACING CONCRETE.
2. ALLOW CONCRETE TO SET UP A MINIMUM OF 6 HOURS BEFORE PLACING BACKFILL.
3. CONCRETE SHALL BE 3000 PSI, CLASS A.
4. ALL IRON FITTINGS SHALL BE BLOCKED AND SUPPORTED AS SHOWN ABOVE.

CONCRETE BLOCKING-VERTICAL BENDS-UPWARD THRUST

April 2018

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY	Concrete Blocking CONSTRUCTION STANDARD	STANDARD DETAIL NO. W-12

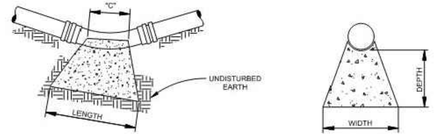


TABLE FOR CONCRETE BLOCKING
(250 PSI TEST PRESSURE)

MINIMUM DIMENSIONS OF BLOCKING

FITTING	SIZE	DEPTH (FT.)	LENGTH (FT.)	"C" (IN.)	WIDTH (FT.)	VOLUME (C.Y.)	THRUST (LB.)
11 1/4° BEND	6"	1.0	2.0	6	1.0	0.04	1,385
11 1/4° BEND	8"	1.0	2.0	7	1.0	0.05	2,465
11 1/4° BEND	10"	1.0	2.0	9	1.0	0.07	3,850
11 1/4° BEND	12"	1.0	2.5	11	1.5	0.12	5,550
11 1/4° BEND	16"	2.0	2.5	12	2.1	0.26	9,860
11 1/4° BEND	20"	2.0	3.5	15	2.5	0.48	15,406
11 1/4° BEND	24"	2.0	4.0	18	3.0	0.70	22,185
22 1/2° BEND	6"	1.0	2.0	6	1.0	0.04	2,760
22 1/2° BEND	8"	1.0	2.0	7	1.5	0.06	4,905
22 1/2° BEND	10"	1.0	2.0	9	2.0	0.10	7,665
22 1/2° BEND	12"	1.0	3.0	11	2.0	0.16	11,040
22 1/2° BEND	16"	2.0	3.5	12	3.0	0.45	19,625
22 1/2° BEND	20"	2.0	4.0	15	4.0	0.74	30,665
22 1/2° BEND	24"	3.0	5.0	18	4.5	1.47	44,160
45° BEND	6"	1.0	2.0	6	1.5	0.06	5,415
45° BEND	8"	1.0	2.5	7	2.0	0.10	9,625
45° BEND	10"	2.0	3.5	9	2.5	0.31	15,040
45° BEND	12"	2.0	3.5	11	3.0	0.41	21,655
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45° BEND	20"	4.0	6.0	15	5.0	2.05	60,145
45° BEND	24"	4.0	7.5	18	6.5	3.35	91,610
90° BEND	6"	1.0	2.5	12	2.0	0.13	10,005
90° BEND	8"	2.0	3.0	14	3.0	0.38	17,785
90° BEND	10"	2.5	4.5	18	3.0	0.74	27,785
90° BEND	12"	3.0	5.0	20	4.0	1.24	40,000
90° BEND	16"	4.0	6.5	26	5.5	2.91	71,125
90° BEND	20"	4.0	8.0	32	7.0	4.68	111,135
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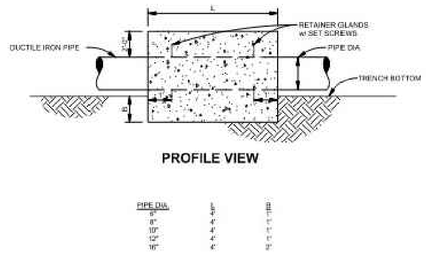
NOTES:

1. SOIL BEARING STRENGTH OF 2000 PSI IS ASSUMED IN THE CALCULATIONS ABOVE. ENGINEER SHALL VERIFY.
2. COVER GLANDS AND BOLTS WITH POLYETHYLENE BEFORE PLACING CONCRETE.
3. ALLOW CONCRETE TO SET UP A MINIMUM OF 6 HOURS BEFORE PLACING BACKFILL.
4. CONCRETE SHALL BE 3000 PSI, CLASS A.
5. ALL IRON FITTINGS SHALL BE BLOCKED AND SUPPORTED AS SHOWN ABOVE.

CONCRETE BLOCKING-VERTICAL BENDS-DOWNWARD THRUST

April 2018

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY	Concrete Blocking CONSTRUCTION STANDARD	STANDARD DETAIL NO. W-13



PROFILE VIEW

PIPE DIA.	
6"	4'-0"
8"	4'-0"
10"	4'-0"
12"	4'-0"
16"	4'-0"

NOTE:
CONCRETE COLLAR WIDTH EQUALS THE WIDTH OF THE TRENCH PLUS FOUR FEET (TWO FEET ON EACH SIDE OF THE TRENCH).

April 2018

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY	Concrete Thurst Collar CONSTRUCTION STANDARD	STANDARD DETAIL NO. W-14

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0, 1/2", 1")

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: M. ORR
DRAWN BY: M. SEEBOLD
CHECKED BY: VALUE

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY DANIEL D. SEBUSCH, P.E. No. 030101 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

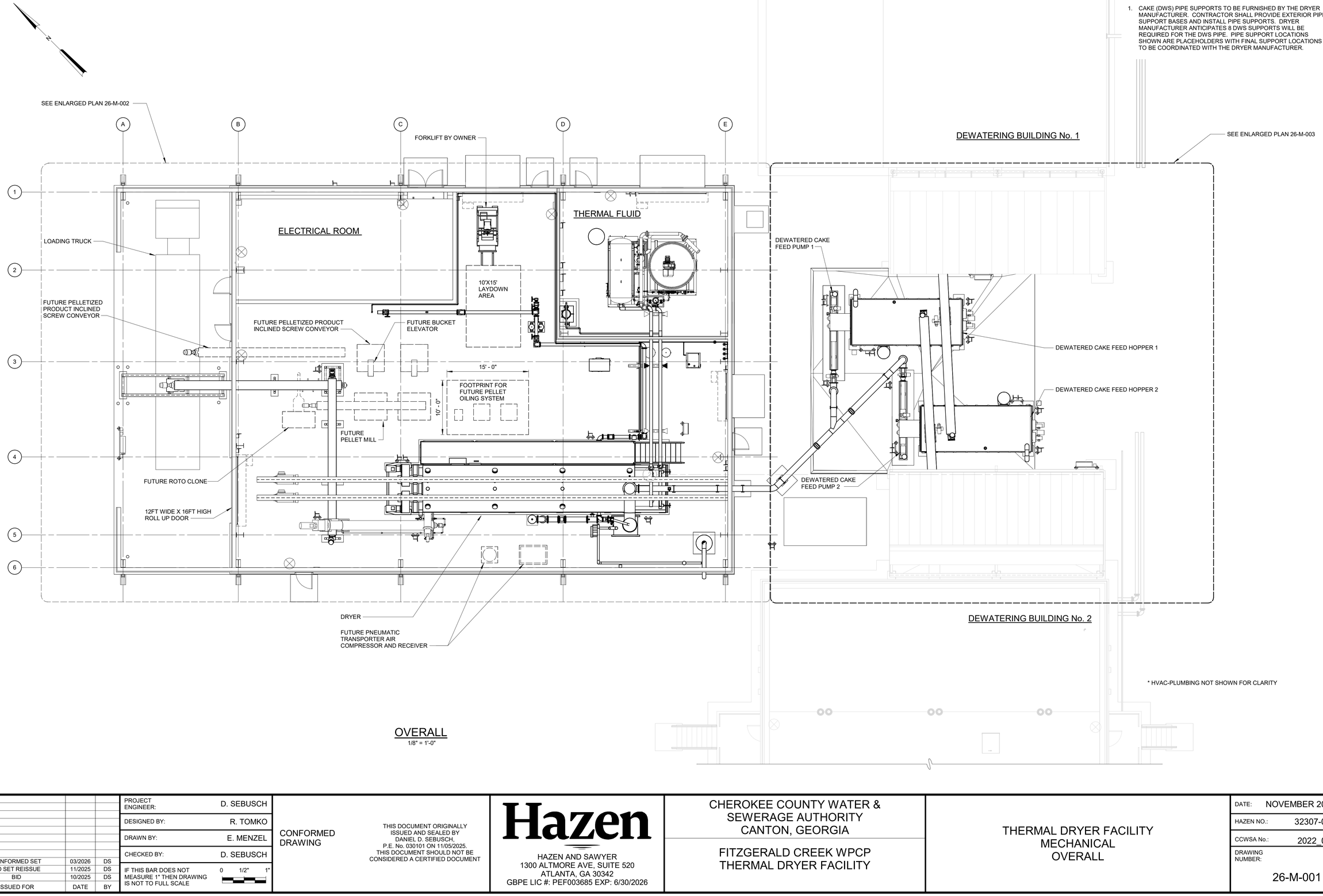
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

CIVIL
DETAILS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-C-606

File: C:_DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\CIVIL\32307-007-01-C-606 Saved by MSEEBOLD Save date: 2/25/2026 8:30 AM
PLOT DATE: 2/25/2026 9:26 AM BY: MSEEBOLD



NOTES:

1. CAKE (DWS) PIPE SUPPORTS TO BE FURNISHED BY THE DRYER MANUFACTURER. CONTRACTOR SHALL PROVIDE EXTERIOR PIPE SUPPORT BASES AND INSTALL PIPE SUPPORTS. DRYER MANUFACTURER ANTICIPATES 8 DWS SUPPORTS WILL BE REQUIRED FOR THE DWS PIPE. PIPE SUPPORT LOCATIONS SHOWN ARE PLACEHOLDERS WITH FINAL SUPPORT LOCATIONS TO BE COORDINATED WITH THE DRYER MANUFACTURER.

* HVAC-PLUMBING NOT SHOWN FOR CLARITY

OVERALL
1/8" = 1'-0"

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	R. TOMKO
DRAWN BY:	E. MENZEL
CHECKED BY:	D. SEBUSCH

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

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Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

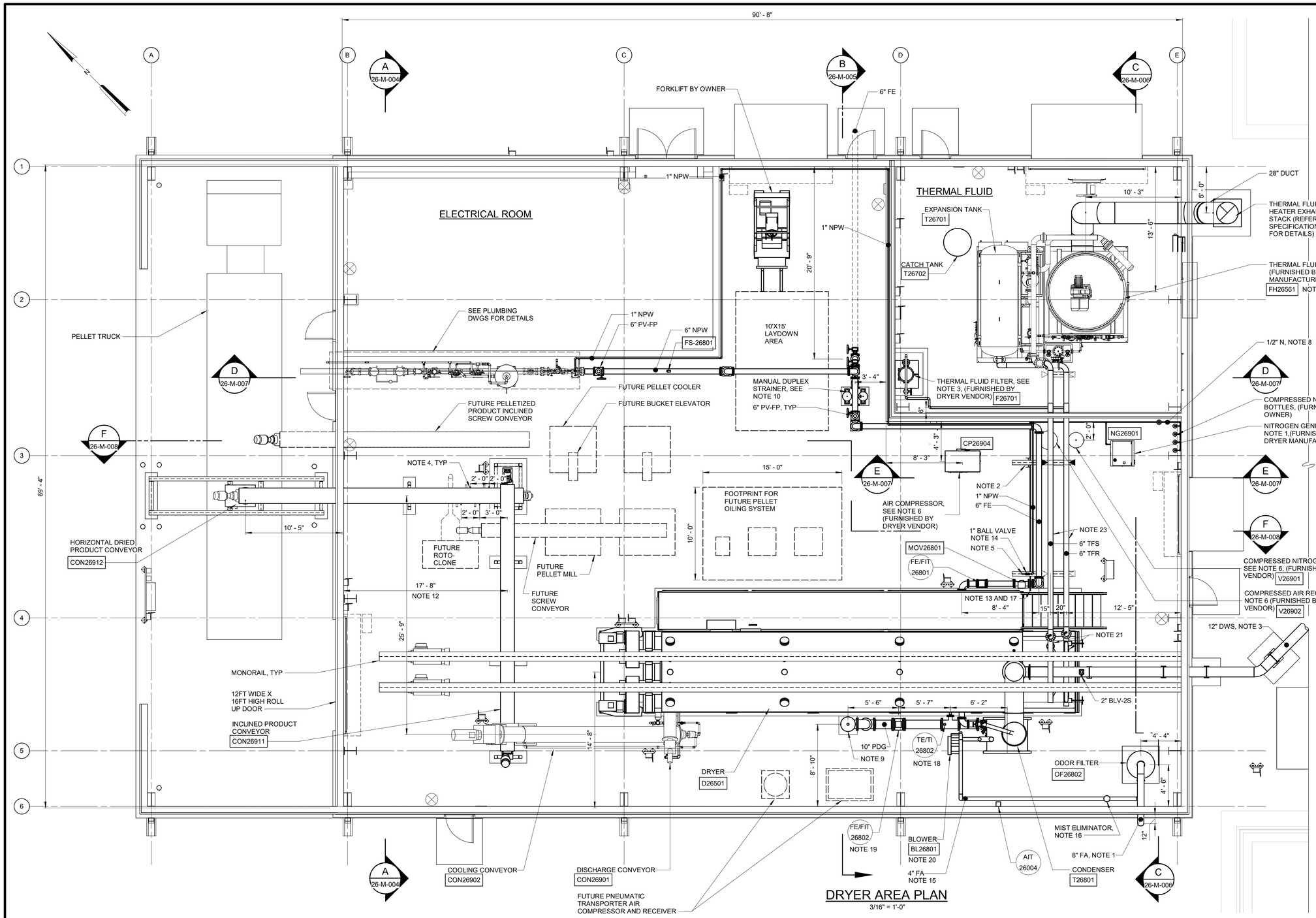
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY MECHANICAL OVERALL

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	26-M-001

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-M.rvt
2/27/2026 11:48:34 AM



DRYER AREA PLAN

3/16" = 1'-0"

NOTES:

1. CUT PIPE ON 45 DEG ANGLE AND ATTACH 316 SST BUG SCREEN.
2. THERMAL FLUID PIPE SUPPORT SYSTEM SHALL BE DESIGNED BY THE DRYER SYSTEM SUPPLIER. A FIXED SUPPORT FOR THE THERMAL FLUID PIPING IS ANTICIPATED IN THIS GENERAL LOCATION. COMPRESSED AIR AND NITROGEN SYSTEM COMPONENT LAYOUT MAY REQUIRE ADJUSTMENT AFTER THE FINAL THERMAL FLUID PIPE SUPPORTS ARE DESIGNED AND LOCATED.
3. DWS PIPE SUPPORT SYSTEM SHALL BE DESIGNED AND FURNISHED BY THE DRYER SYSTEM MANUFACTURER AND INSTALLED BY THE CONTRACTOR..
4. 1/2" NPT COUPLING (2 PER SIDE) FOR FUTURE PRODUCT OILING WELDED TO CONVEYOR TROUGH. PLUG BOTH INTERIOR AND EXTERIOR SIDES OF COUPLING. INTERIOR END OF COUPLING SHALL BE CAPABLE OF RECEIVING FAN SPRAY NOZZLE FOR OIL APPLICATION TO DRIED PRODUCT WITHOUT INTERFERING WITH AUGER.
5. CONNECT NPW TO VENDOR FURNISHED DRYER QUENCH MANIFOLD. REFER TO VENDOR'S P&ID FOR QUENCH SYSTEM PIPE SIZES AND CONNECTION DETAILS.
6. DRYER MANUFACTURER RESPONSIBLE FOR SUPPLY OF INTERCONNECTING PIPE, FITTINGS, FILTERS, REGULATORS, INSTRUMENTS, AND VALVES BETWEEN AIR COMPRESSOR, NITROGEN GENERATOR, MIST ELIMINATOR (NOT SHOWN), DESICCANT DRYER (NOT SHOWN), AND RECEIVERS. REFER TO VENDOR DETAILS FOR INTERCONNECTING COMPONENT ASSEMBLY. FINAL LAYOUT OF COMPONENTS SHALL BE PER APPROVED SHOP DRAWING SUBMITTAL. CONTRACTOR TO FIELD CUT PIPE FOR FINAL FIT UP. (3)
7. REFER TO DRYER VENDOR SHOP DRAWINGS FOR DETAILS ON VALVES AND INSTRUMENTATION ASSEMBLED ON THE DRYER SKID.
8. ROUTE 1/2" N FROM NITROGEN BOTTLES TO THE NITROGEN GENERATOR DISCHARGE. FURNISH AND INSTALL VALVES AND REGULATOR FOR THE NITROGEN BOTTLES AS SHOWN IN THE P&ID. ROUTE 1/2" N FROM NITROGEN RECEIVER TO THE DRYER AND CONNECT TO DRYER NITROGEN DISTRIBUTION MANIFOLD IN ACCORDANCE WITH DRYER MANUFACTURER'S REQUIREMENTS.
9. 2" VACUUM BREAKER INSTALLED IN NPT TAP IN 10" BLIND FLANGE.
10. DUPLEX STRAINERS SHALL BE PROVIDED AS SPECIFIED IN SECTION 40 05 89.13 - BASKET STRAINERS FOR PROCESS SERVICE..
11. THERMAL FLUID FILTER, VALVES, INSTRUMENTS, AND CONNECTING PIPING TO BE SUPPLIED BY THE DRYER MANUFACTURER. REFER TO DRYER VENDOR DETAILS FOR SPECIFIC LAYOUT AND INSTALLATION REQUIREMENTS.
12. FINAL LOCATION OF CONVEYOR CON26911 SHALL BE COORDINATED WITH DISCHARGE LOCATION OF DRYER COOLING CONVEYOR CON26902.
13. CONNECT 1/2" N TO NITROGEN DISTRIBUTION MANIFOLD ASSEMBLY, FURNISHED BY DRYER MANUFACTURER, IN ACCORDANCE WITH DRYER MANUFACTURER REQUIREMENTS. SEE DRYER MANUFACTURER P&IDs FOR ADDITIONAL DETAILS.
14. INSTALL DRYER MANUFACTURER SUPPLIED MOTOR OPERATED VALVE AT AN EASILY ACCESSIBLE ELEVATION.
15. DRYER MANUFACTURER SHALL FURNISH DUCT FROM CONDENSER DISCHARGE BLOWER TO ODOR FILTER. CONTRACTOR SHALL FURNISH SUPPORTS FOR AND INSTALL DUCT.
16. MIST ELIMINATOR SHALL BE SUPPLIED BY THE DRYER MANUFACTURER. CONTRACTOR SHALL INSTALL MIST ELIMINATOR IN DUCT IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS. MOUNT DIFFERENTIAL PRESSURE TRANSMITTER, FURNISHED BY DRYER MANUFACTURER, TO WALL ABOVE MIST ELIMINATOR USING DETAIL I-40-905. CONNECT MIST ELIMINATOR TO TRANSMITTER WITH TYPE 304 SS TUBING. INSTALL BLV-2S ISOLATION VALVES IN TRANSMITTER SENSING TUBES.
17. ROUTE 3/8" SS TUBE FROM DRYER MOUNTED NITROGEN DISTRIBUTION MANIFOLD TO THERMAL FLUID HEATER EXPANSION AND CATCH TANKS AND TO PRODUCT COOLING CONVEYOR DISCHARGE ROTARY VALVE. CONNECT NITROGEN TUBE TO EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. SEE DRYER MANUFACTURER P&IDs FOR ADDITIONAL REQUIREMENTS.
18. PROVIDE TAPPED BOSS ON DOWNSTREAM END OF TEE. INSTALL DRYER MANUFACTURER FURNISHED THERMOWELL AND TEMPERATURE SENSOR AT BOSS. COORDINATE BOSS SIZE WITH THERMOWELL.
19. FLOW METER TO BE FURNISHED BY DRYER MANUFACTURER AND INSTALLED BY CONTRACTOR.
20. FOUL AIR BLOWER FURNISHED BY DRYER MANUFACTURER SHIPPED LOOSE AND INSTALLED BY CONTRACTOR.
21. DRYER THERMAL FLUID MANIFOLDS FURNISHED BY DRYER MANUFACTURER SHIPPED LOOSE AND INSTALLED BY CONTRACTOR. LOOSE SHIPPED INSTRUMENTS TO BE INSTALLED BY CONTRACTOR. HOT OIL ROTARY UNION REQUIRES INSTALLATION UNDER DRYER MANUFACTURER'S SUPERVISION.
22. THERMAL FLUID HEATER TO BE SHIPPED IN SECTIONS AND ASSEMBLED BY THE CONTRACTOR.
23. THERMAL FLUID PIPE INSULATION FURNISHED BY MANUFACTURER TO BE CUT AND INSTALLED BY CONTRACTOR.

REV	ISSUED FOR	DATE	BY
4	CONFORMED SET	03/2026	DS
3	ADDENDUM No. 1	11/2025	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	R. TOMKO
DRAWN BY:	E. MENZEL
CHECKED BY:	D. SEBUSCH

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0 — 1/2" — 1")

CONFORMED DRAWING

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HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

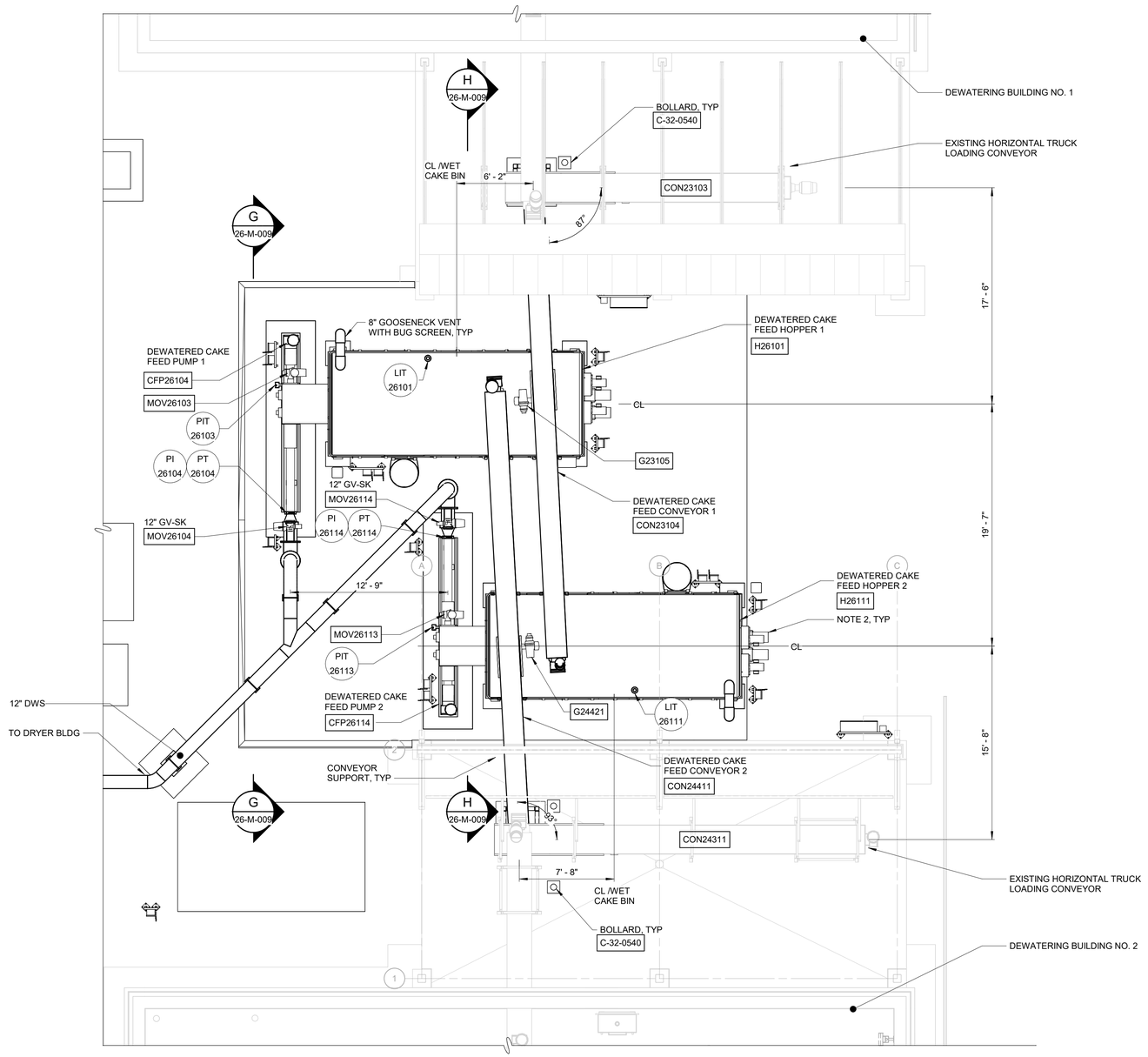
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY MECHANICAL DRYER PLAN

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	26-M-002

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-M.rvt
2/27/2026 11:48:46 AM



CAKE RECEIVING ENLARGED PLAN

3/16" = 1'-0"

NOTES:

1. SYSTEM SUPPLIER SHALL FURNISH A COMPLETE SET OF INSTRUMENTS AND CONTROL VALVES FOR THE DRYER SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, INSTALLING, AND CONNECTING COMPRESSED AIR PIPING/TUBING TO THE DRYER SYSTEM.
2. ROUTE 1/2" CA FROM THE CA RECEIVER IN THE DRYER BUILDING TO EACH DEWATERED CAKE FEED HOPPER. CONNECT CA TO SHAFT SEAL AIR DISTRIBUTION MANIFOLD ON EACH BIN. SHAFT SEAL AIR DISTRIBUTION MANIFOLDS TO BE PROVIDED BY DRYER MANUFACTURER AND INSTALLED ON EACH BIN. REFER TO P&IDs FOR ADDITIONAL DETAIL.

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0, 1/2", 1")

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	R. TOMKO
DRAWN BY:	E. MENZEL
CHECKED BY:	D. SEBUSCH

CONFORMED DRAWING

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GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
MECHANICAL
CAKE HANDLING ENLARGED PLAN

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	26-M-003

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-M.rvt
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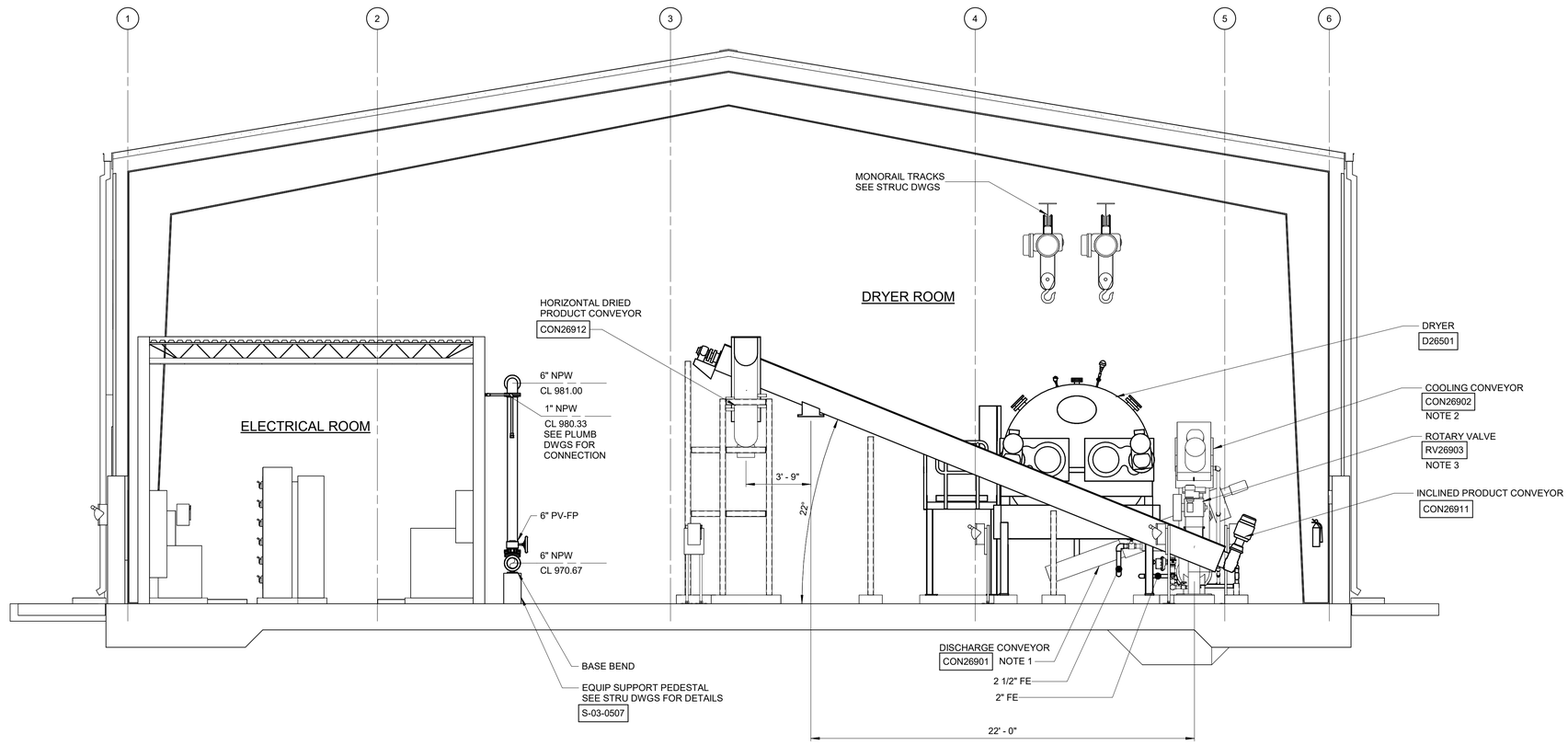
NOTES:

1. DRYER DISCHARGE CONVEYOR SHIPPED SEPARATE FROM DRYER. CONTRACTOR SHALL ASSEMBLE DISCHARGE CONVEYOR TO THE DRYER AFTER DRYER IS SET. CONTRACTOR SHALL INSTALL LOOSE SHIPPED INSTRUMENTS AND MANUFACTURER FURNISHED INSULATION BLANKETS TO DRYER DISCHARGE CONVEYOR.
2. COOLING CONVEYOR SHIPPED SEPARATE FROM DRYER. CONTRACTOR SHALL ASSEMBLE SUPPORTS, LOOSE SHIPPED INSTRUMENTS, AND WATER PIPING. ANCHORS TO BE FURNISHED BY THE DRYER MANUFACTURER AND INSTALLED BY THE CONTRACTOR.
3. ROTARY VALVE SHIPPED SEPARATE FROM COOLING CONVEYOR. VALVE TO BE FURNISHED BY DRYER MANUFACTURER AND INSTALLED BY CONTRACTOR.



SECTION A
1/4" = 1'-0"
26-M-002

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	R. TOMKO
DRAWN BY:	E. MENZEL
CHECKED BY:	D. SEBUSCH

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GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
MECHANICAL
SECTION - 1

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 26-M-004

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-M.rvt
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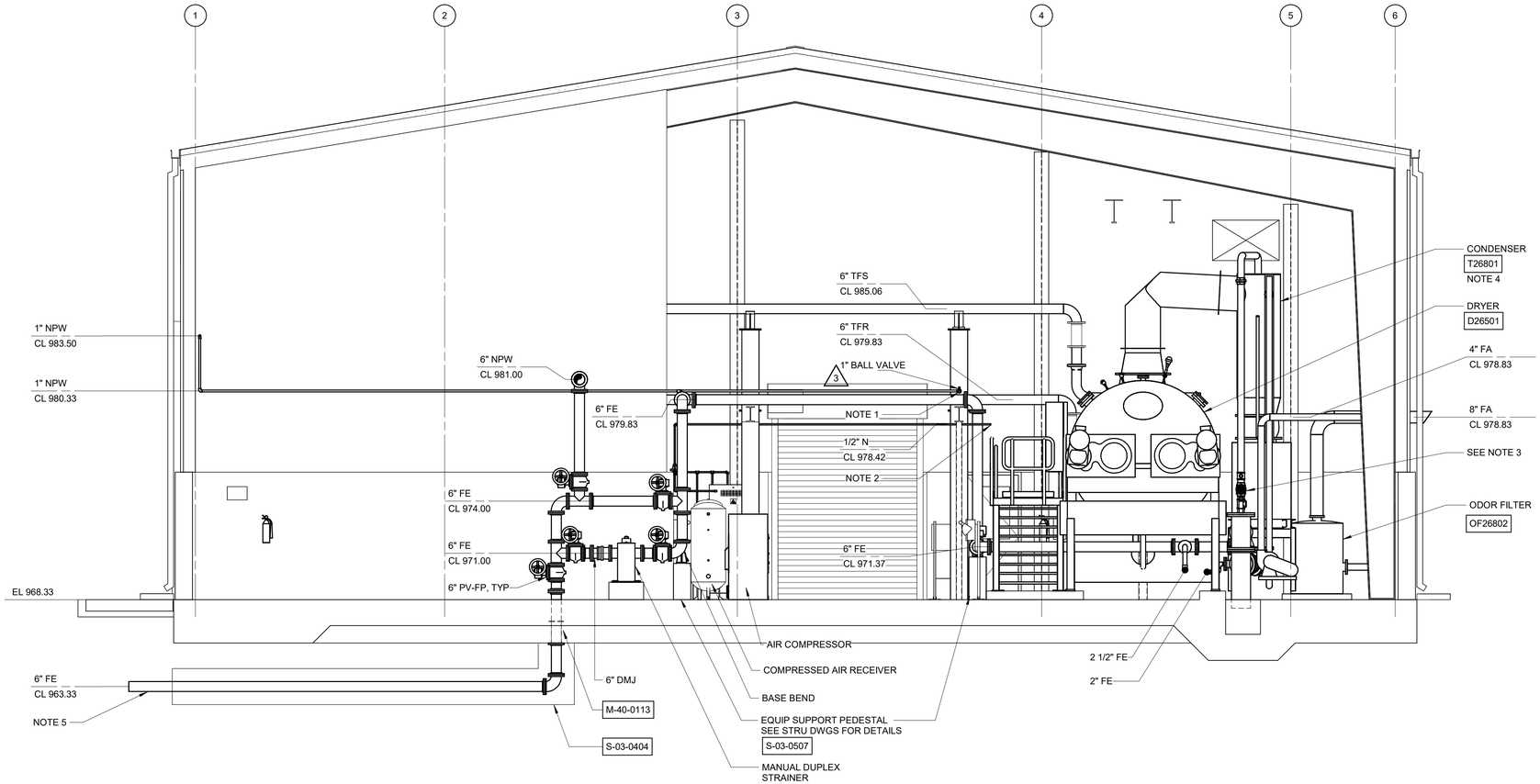
NOTES:

1. CONNECT NPW TO VENDOR FURNISHED DRYER QUENCH MANIFOLD. REFER TO VENDOR'S P&ID FOR QUENCH SYSTEM PIPE SIZES AND CONNECTION DETAILS.
2. CONNECT 1/2" N TO NITROGEN DISTRIBUTION MANIFOLD ASSEMBLY, FURNISHED BY DRYER MANUFACTURER, IN ACCORDANCE WITH DRYER MANUFACTURER REQUIREMENTS. SEE DRYER MANUFACTURER P&IDs FOR ADDITIONAL DETAILS.
3. SEE DRYER MANUFACTURER'S DETAILS FOR ALL MANUFACTURER FURNISHED VALVES AND INSTRUMENTATION
4. CONDENSER, FURNISHED BY THE DRYER MANUFACTURER, SHIPPED IN 3 MAIN SECTIONS. CONTRACTOR SHALL ASSEMBLE AND INSTALL ON THE DRYER, AND INSTALL LOOSE SHIPPED INSTRUMENTS AND HOSE ON THE CONDENSER.
5. PROVIDE A PIPE JOINT WITHIN 2 DIAMETERS OF END OF PIPE ENCASEMENT, AND A SECOND JOINT 4-5 DIAMETERS FROM THE FIRST JOINT.



SECTION B
1/4" = 1'-0" 26-M-002

REV	ISSUED FOR	DATE	BY
4	CONFORMED SET	03/2026	DS
3	ADDENDUM No. 1	11/2025	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	R. TOMKO
DRAWN BY:	E. MENZEL
CHECKED BY:	D. SEBUSCH
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

CONFORMED DRAWING

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GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
MECHANICAL
SECTION - 2

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	26-M-005

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-M.rvt
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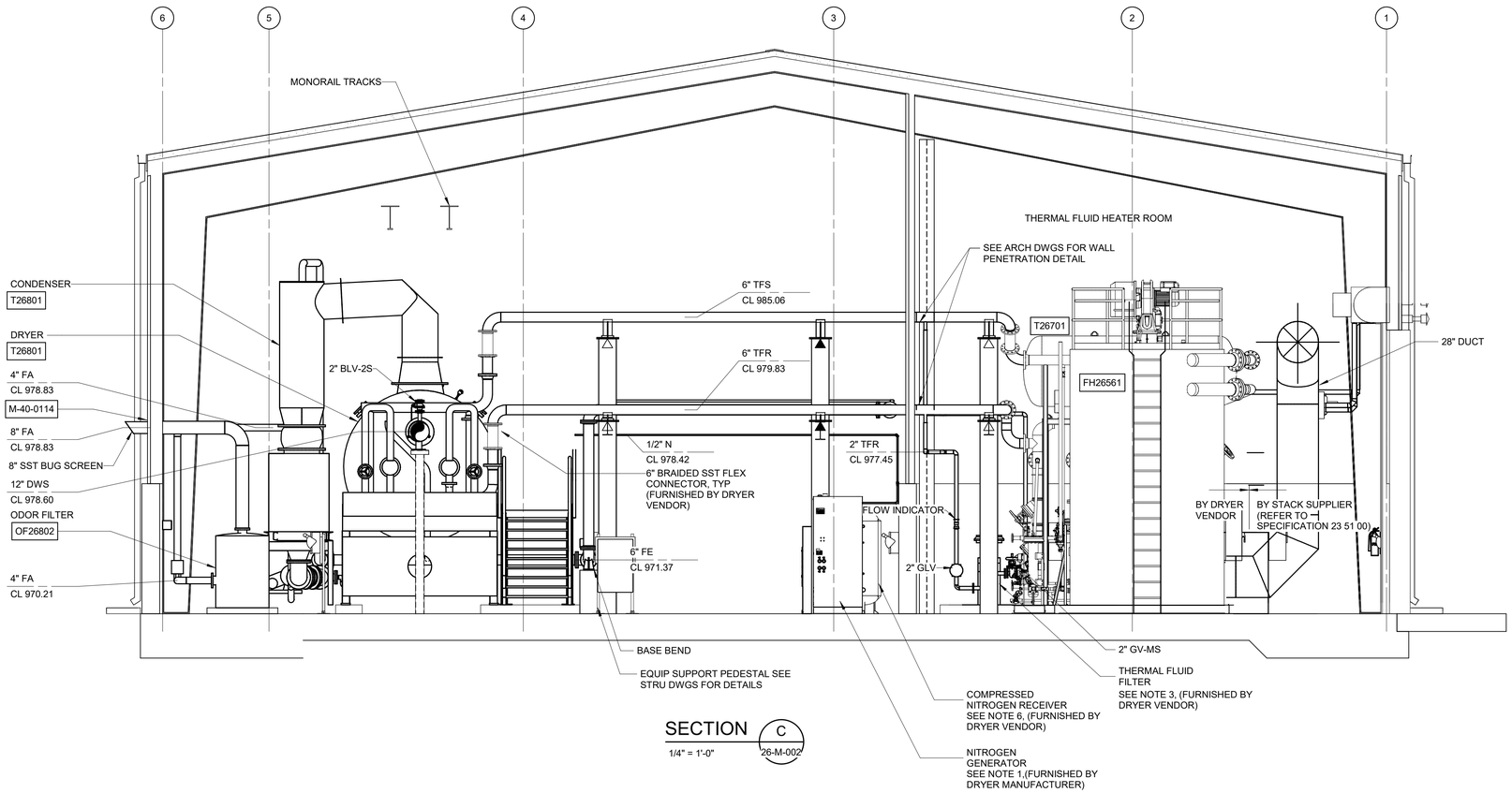
NOTES:

1. DRYER VENDOR RESPONSIBLE FOR SUPPLY OF INTERCONNECT PIPE, FITTINGS, AND VALVES BETWEEN AIR COMPRESSOR, NITROGEN GENERATOR, AND RECEIVERS. REFER TO VENDOR DETAILS FOR INTERCONNECTING COMPONENT ASSEMBLY.
2. REFER TO DRYER VENDOR SHOP DRAWINGS FOR DETAILS ON VALVES AND INSTRUMENTATION ASSEMBLED ON THE DRYER SKID.
3. THERMAL FLUID FILTER CONNECTING PIPE, VALVES, FLOW INDICATOR, AND FITTINGS FURNISHED BY THE DRYER VENDOR.



SECTION C
1/4" = 1'-0"
26-M-002

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	R. TOMKO
DRAWN BY:	E. MENZEL
CHECKED BY:	D. SEBUSCH

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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
MECHANICAL
SECTION - 3

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	26-M-006

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-M.rvt
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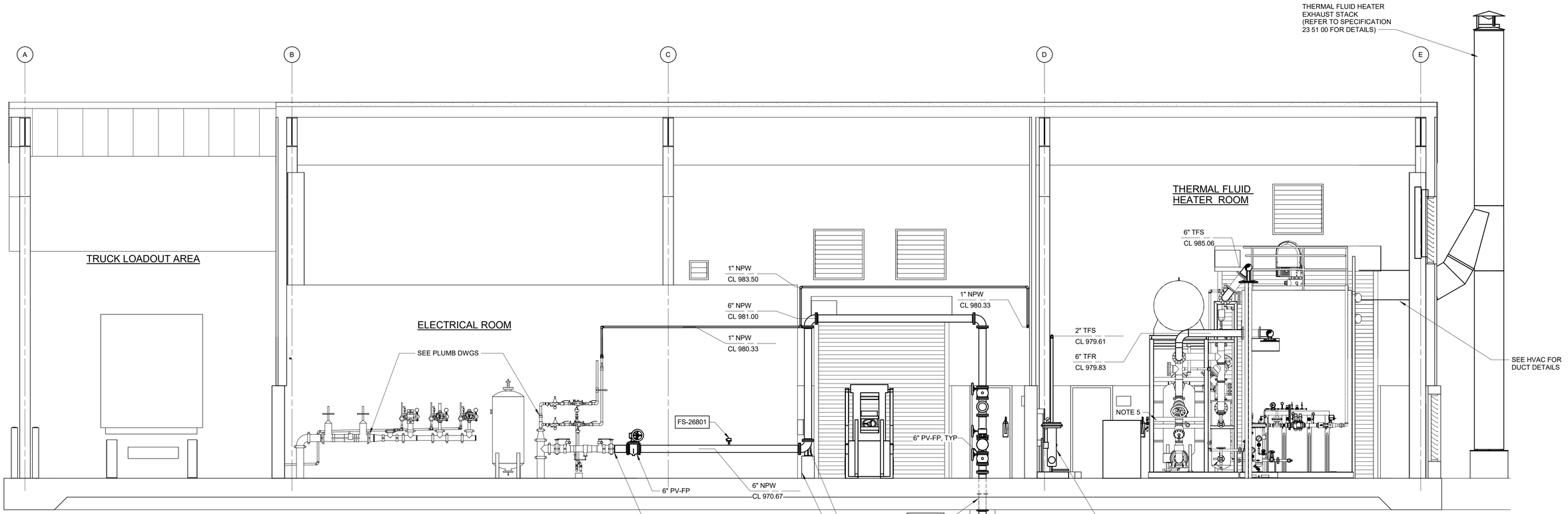
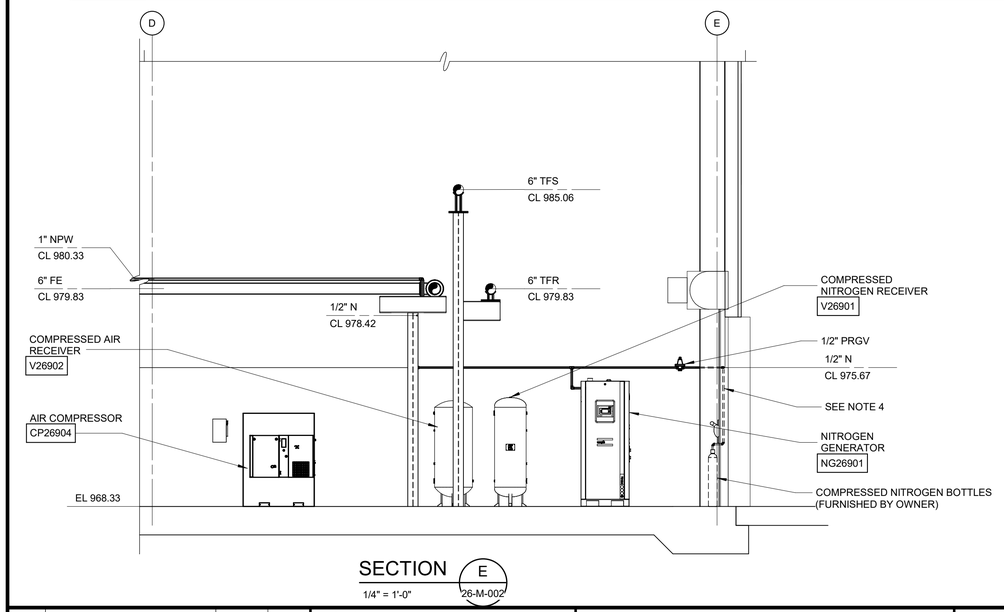


SECTION D 26-M-002
1/4" = 1'-0"



SECTION E 26-M-002
1/4" = 1'-0"

NOTES:

1. DRYER MANUFACTURER RESPONSIBLE FOR PROVIDING ALL COMPONENTS OF THE THERMAL FLUID SYSTEM. NOT ALL VALVES AND INTERCONNECT PIPING ARE SHOWN. SUPPLY SHALL INCLUDE BUT NOT BE LIMITED TO THE THERMAL FLUID HEATER, EXPANSION AND CATCH TANKS, PUMP, ALL THERMAL FLUID PIPE, ISOLATION VALVES, AND INSTRUMENTATION TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.
2. INTERCONNECTING PIPE, VALVES, FITTINGS, AND ANCILLARY COMPONENTS (INCLUDING MIST ELIMINATOR AND DESICCANT DRYER) OF THE COMPRESSED AIR AND NITROGEN GENERATING SYSTEMS FURNISHED BY THE DRYER MANUFACTURER NOT SHOWN. FINAL LAYOUT OF THESE COMPONENTS SHALL BE PER APPROVED SHOP DRAWING SUBMITTAL. CONTRACTOR SHALL INSTALL LOOSE SHIPPED COMPRESSED AIR AND NITROGEN EQUIPMENT, PIPE, AND VALVES.
3. THERMAL FLUID FILTER, VALVES, INSTRUMENTS, AND CONNECTING PIPING TO BE SUPPLIED BY THE DRYER MANUFACTURER. REFER TO DRYER VENDOR DETAILS FOR SPECIFIC LAYOUT AND INSTALLATION REQUIREMENTS.
4. FURNISH AND INSTALL ISOLATION AND CHECK VALVES FOR EACH COMPRESSED NITROGEN BOTTLE. SEE P&IDS FOR VALVE DETAILS.
5. VENT CATCH TANK OVERHEAD TO EXTERIOR OF BUILDING. MIN 7'-6" CLEAR UNDER VENT PIPE.

REV	ISSUED FOR	DATE	BY
4	CONFORMED SET	03/2026	DS
3	ADDENDUM No. 1	11/2025	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0, 1/2", 1")

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	R. TOMKO
DRAWN BY:	E. MENZEL
CHECKED BY:	D. SEBUSCH

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GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY MECHANICAL SECTION - 4

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	26-M-007

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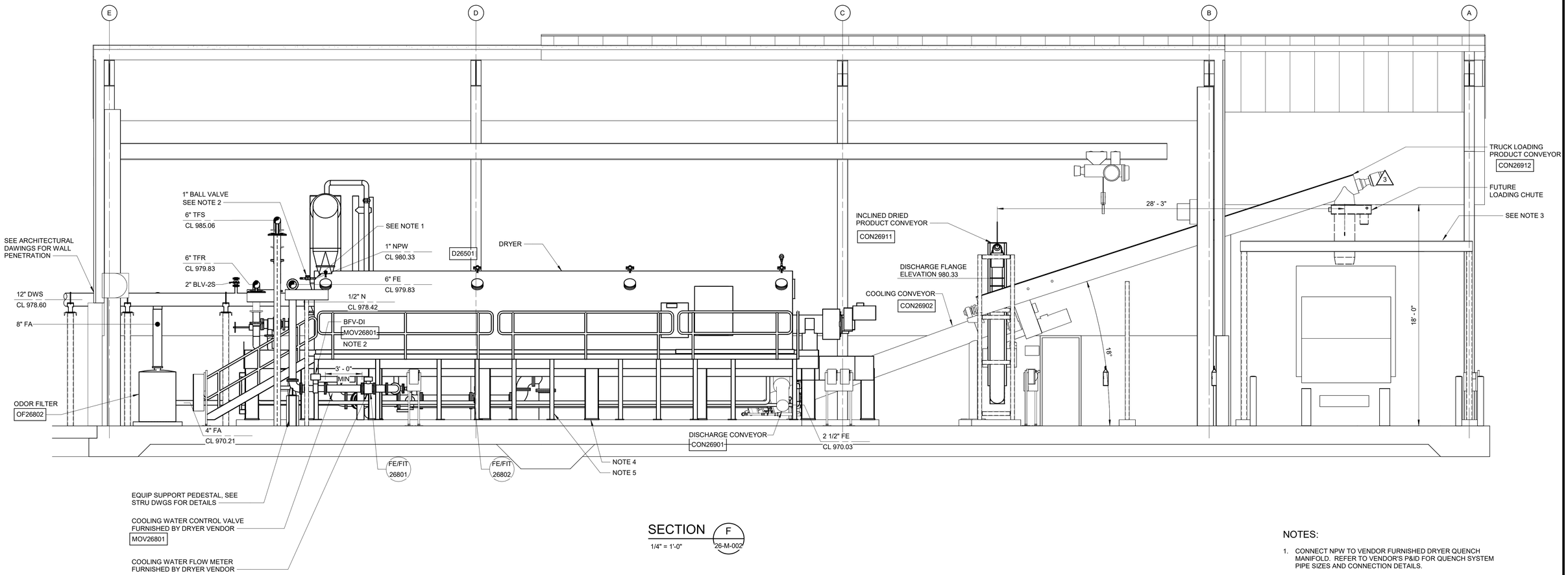

SECTION F
1/4" = 1'-0"
26-M-002

NOTES:

1. CONNECT NPW TO VENDOR FURNISHED DRYER QUENCH MANIFOLD. REFER TO VENDOR'S P&ID FOR QUENCH SYSTEM PIPE SIZES AND CONNECTION DETAILS.
2. VALVE FURNISHED BY DRYER MANUFACTURER. ENSURE VALVE IS EASILY ACCESSED FROM DRYER PLATFORM.
3. TRUCK LOADING PRODUCT CONVEYOR SUPPORTS TO BE COORDINATED WITH STRUCTURAL SUPPORT FRAMING.
4. DRYER SUPPORT LEGS FURNISHED BY THE MANUFACTURER TO BE SHIPPED UNASSEMBLED. CONTRACTOR SHALL ASSEMBLE SUPPORT LEGS TO DRYER AND ANCHOR TO CONCRETE. DRYER ANCHORS TO BE FURNISHED BY THE MANUFACTURER AND INSTALLED BY THE CONTRACTOR.
5. DRYER PLATFORM TO BE FURNISHED BY THE MANUFACTURER AND ASSEMBLED AND INSTALLED BY THE CONTRACTOR. PLATFORM ANCHORS TO BE FURNISHED BY THE MANUFACTURER AND INSTALLED BY THE CONTRACTOR.

REV	ISSUED FOR	DATE	BY
4	CONFORMED SET	03/2026	DS
3	ADDENDUM No. 2	12/2025	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: R. TOMKO
DRAWN BY: E. MENZEL
CHECKED BY: D. SEBUSCH
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
MECHANICAL
SECTION - 5

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 26-M-008

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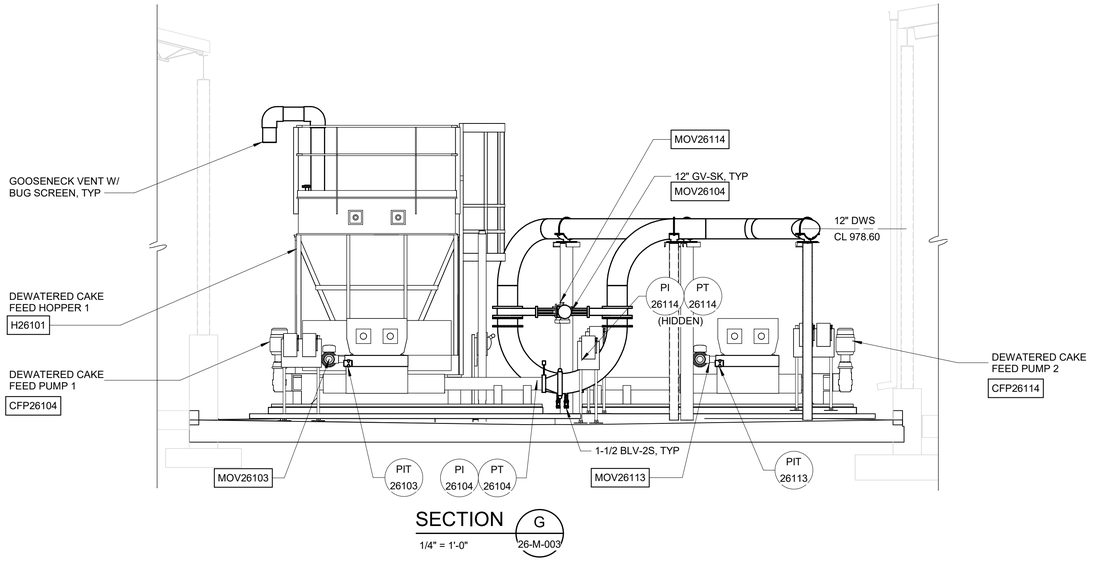
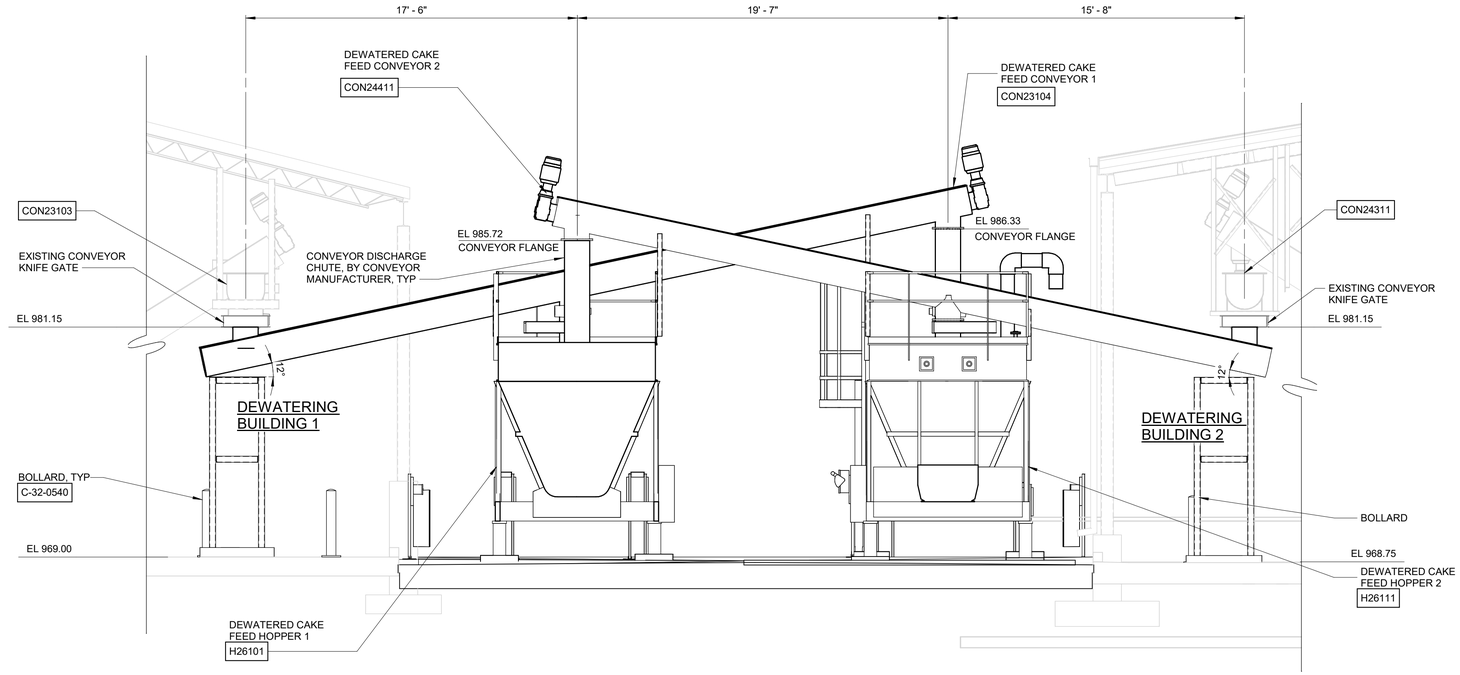


SECTION G
1/4" = 1'-0"
26-M-003



SECTION H
1/4" = 1'-0"
26-M-003

NOTES:

1. LOOSE SHIPPED INSTRUMENTS WILL REQUIRE FIELD INSTALLATION BY CONTRACTOR AFTER DEWATERED CAKE FEED HOPPERS ARE SET.
2. HOPPER ANCHORS TO BE FURNISHED BY HOPPER MANUFACTURER AND INSTALLED BY CONTRACTOR.
3. HOPPER DISCHARGE ADAPTER CHUTES SHALL BE FURNISHED BY HOPPER MANUFACTURER AND INSTALLED BY CONTRACTOR. FIELD WELDING OF ADAPTER CHUTES REQUIRED BY CONTRACTOR AFTER CAKE PUMPS ARE SET.
4. DWS PIPE TO BE FURNISHED BY THE DRYER MANUFACTURER AND INSTALLED BY THE CONTRACTOR. FIELD VARIANCES MAY REQUIRE CONTRACTOR TO FIELD WELD LIMITED JOINTS FOR FINAL PIPE FIT-UP.
5. DWS PIPE SUPPORTS SHALL BE FURNISHED BY THE DRYER MANUFACTURER AND INSTALLED BY THE CONTRACTOR. CONCRETE PIPE SUPPORT BASES SHALL BE INSTALLED BY THE CONTRACTOR.

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	R. TOMKO
DRAWN BY:	E. MENZEL
CHECKED BY:	D. SEBUSCH

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

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ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
MECHANICAL
SECTION - 6

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	26-M-009

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-M.rvt
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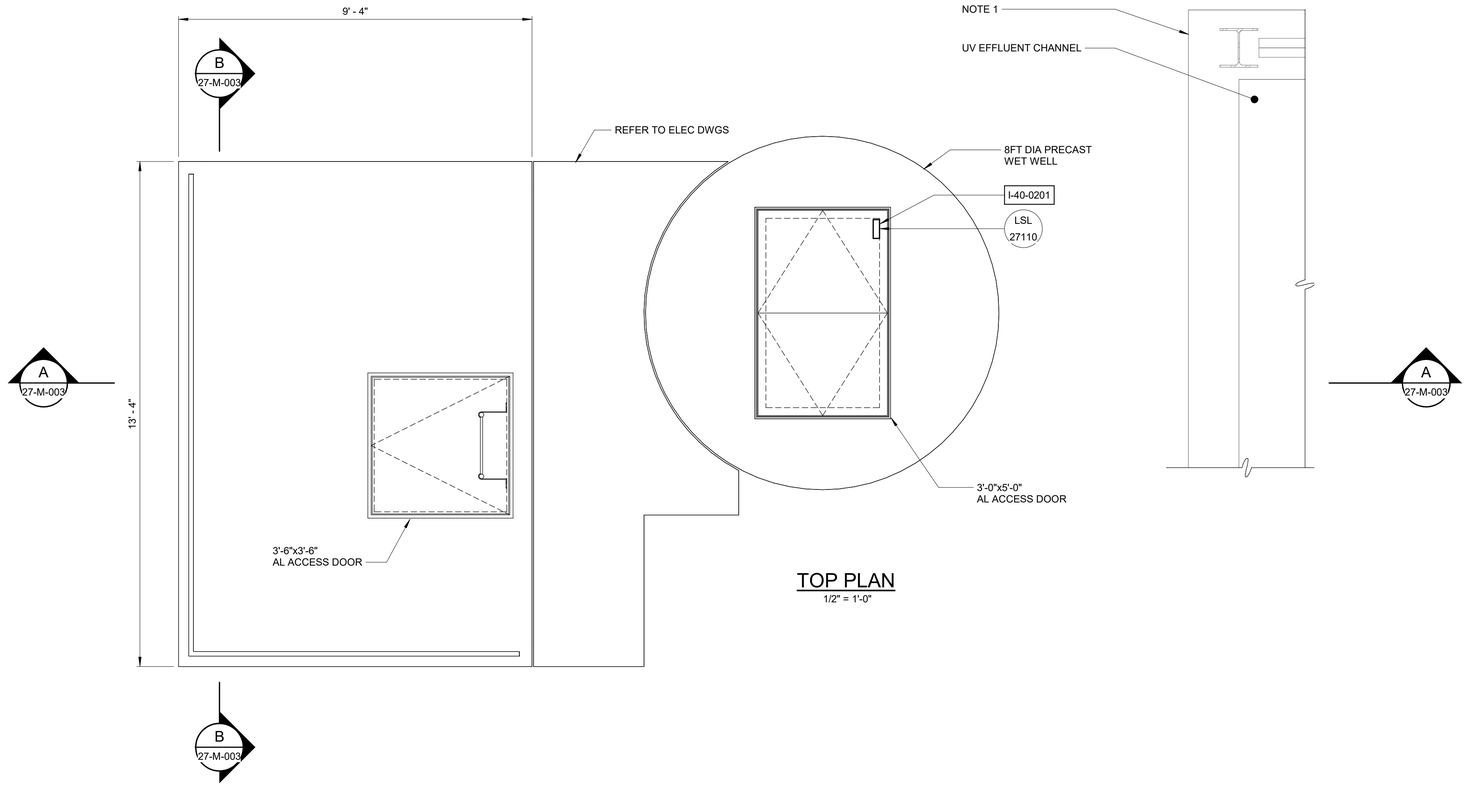
N

NOTES:

1. SEE CIVIL AND STRUCTURAL PLANS FOR VICINITY MAP AND STRUCTURE EXTENTS.
2. CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR THE TEMPORARY BULKHEAD DESIGN, INSTALLATION, AND REMOVAL. PRIOR TO COMMENCING WORK, CONTRACTOR SHALL SUBMIT DRAWINGS FOR THE TEMPORARY BULKHEAD.
3. REFERENCE SPECIFICATION 01 14 00 - COORDINATION WITH OWNER'S OPERATIONS FOR SUGGESTED SEQUENCE OF WORK.



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

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	R. McCONNELL
DRAWN BY:	M. TANNEHILL
CHECKED BY:	R. TOMKO

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

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GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

FINAL EFFLUENT WATER PUMP STATION
MECHANICAL
TOP PLAN

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	27-M-001

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-27-PWPS-M.rvt
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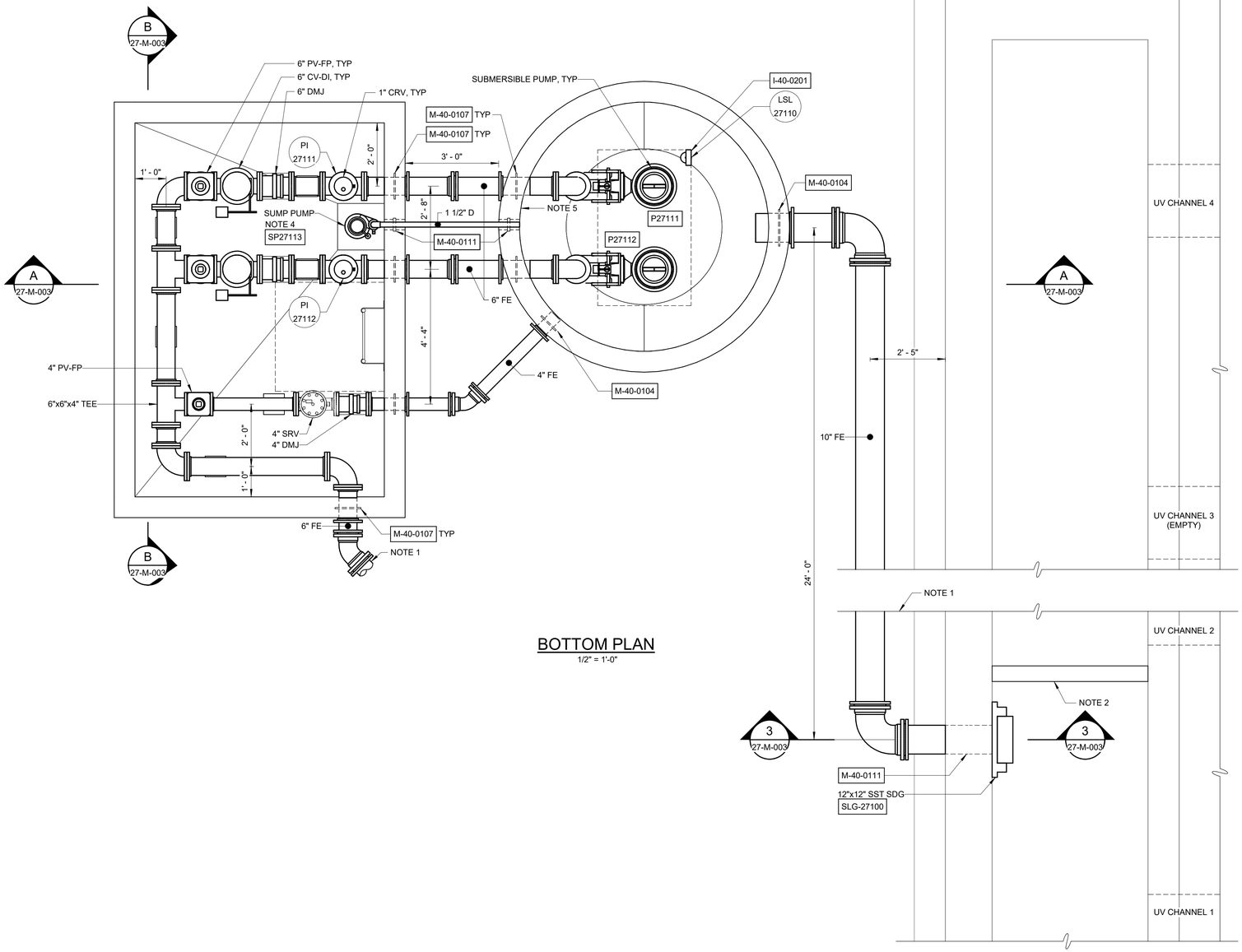

BOTTOM PLAN
1/2" = 1'-0"

NOTES:

1. SEE CIVIL AND STRUCTURAL PLANS FOR VICINITY MAP AND STRUCTURE EXTENTS.
2. CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR THE TEMPORARY BULKHEAD DESIGN, INSTALLATION, AND REMOVAL. PRIOR TO COMMENCING WORK, CONTRACTOR SHALL SUBMIT DRAWINGS FOR THE TEMPORARY BULKHEAD.
3. REFERENCE SPECIFICATION 01 14 00 - COORDINATION WITH OWNER'S OPERATIONS FOR SUGGESTED SEQUENCE OF WORK.
4. FURNISH AND INSTALL SUMP PUMP, ZOELLER MODEL 53, OR EQUAL. 115 V WITH MINIMUM 15 FT CORD LENGTH WITH 3-PRONG PLUG, CAST IRON CONSTRUCTION, AUTOMATIC OPERATION WITH SELF-CONTAINED OPERATING FLOAT, CAPABLE OF 34 GPM AT 10 FT TDH.
5. FURNISH HOLES FOR CONDUIT PENETRATIONS. CONDUIT PENETRATION ANNULAR SPACES SHALL BE SEALED WITH MODULAR MECHANICAL SEAL AND THEN PACKED WITH NON-SHRINK GROUT ON BOTH SIDES OF WALL. COORDINATE PENETRATION SIZES WITH ELECTRICAL REQUIREMENTS.

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: R. McCONNELL
DRAWN BY: M. TANNEHILL
CHECKED BY: R. TOMKO
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY DANIEL D. SEBUSCH, P.E. No. 030101 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT

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HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

FINAL EFFLUENT WATER PUMP STATION
MECHANICAL
BOTTOM PLAN

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 27-M-002

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-27-PWPS-M.rvt
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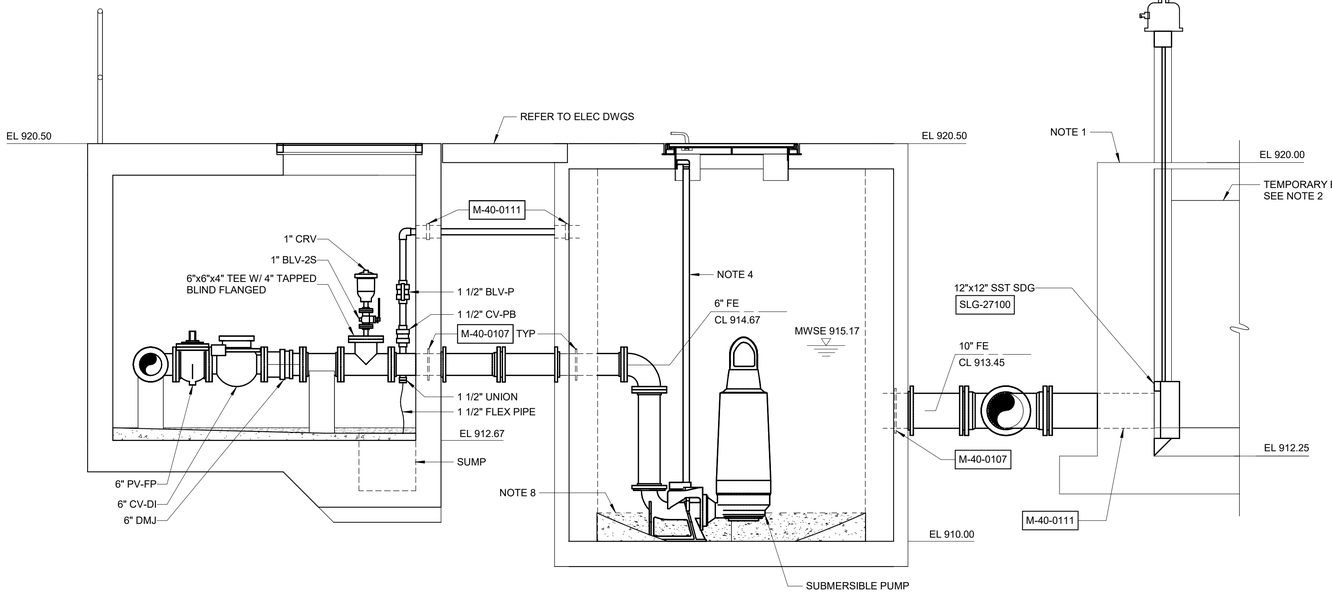
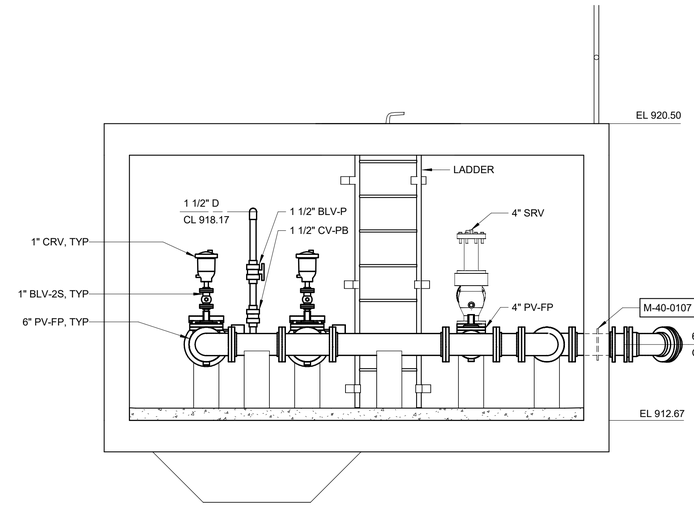
NOTES:

1. SEE CIVIL AND STRUCTURAL PLANS FOR VICINITY MAP AND STRUCTURE EXTENTS.
2. CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR THE TEMPORARY BULKHEAD DESIGN, INSTALLATION, AND REMOVAL. PRIOR TO COMMENCING WORK, CONTRACTOR SHALL SUBMIT DRAWINGS FOR THE TEMPORARY BULKHEAD.
3. REFERENCE SPECIFICATION 01 14 00 - COORDINATION WITH OWNER'S OPERATIONS FOR SUGGESTED SEQUENCE OF WORK.
4. SEE SECTION 43 25 13.10 - WET PIT SUBMERSIBLE SOLIDS HANDLING PUMPS FOR MANUFACTURER REQUIREMENTS FOR GUIDERAILS, BRACKETS AND BASE ELBOWS.
5. SEE SECTION 05 53 00 - GRATINGS, CHECKERED FLOOR PLATES, AND ACCESS DOORS FOR ACCESS DOOR REQUIREMENTS. CONTRACTOR TO ROUTE INTERNAL GUTTER DRAINPIPE TO THE SUMP LOCATED IN THE VALVE VAULT
6. FURNISH HOLES FOR CONDUIT AND SUMP PUMP DISCHARGE PENETRATIONS. PENETRATION ANNULAR SPACES SHALL BE SEALED WITH MODULAR MECHANICAL SEAL AND THEN PACKED WITH NON-SHRINK GROUT ON BOTH SIDES OF WALL. COORDINATE CONDUIT PENETRATION SIZES WITH ELECTRICAL REQUIREMENTS.
7. ROUTE ACCESS DOOR DRAIN ALONG WALL TO SUMP.
8. PROVIDE GROUT FILLET PER MANUFACTURER'S RECOMMENDATION.



SECTION A
1/2" = 1'-0"
27-M-001



SECTION B
1/2" = 1'-0"
27-M-001

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: R. McCONNELL
DRAWN BY: M. TANNEHILL
CHECKED BY: R. TOMKO
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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

FINAL EFFLUENT WATER PUMP STATION MECHANICAL SECTIONS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 27-M-003

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-27-PWPS-M.rvt
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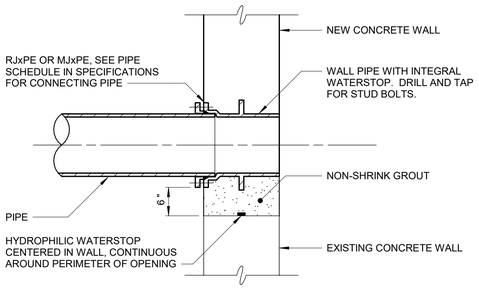

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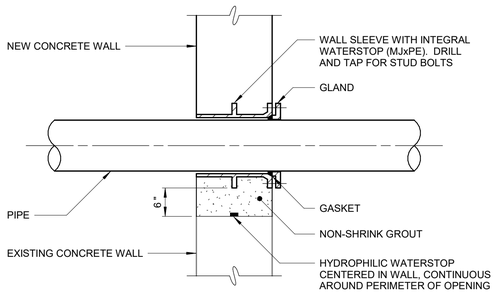

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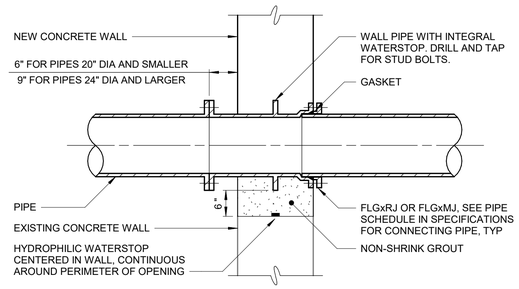

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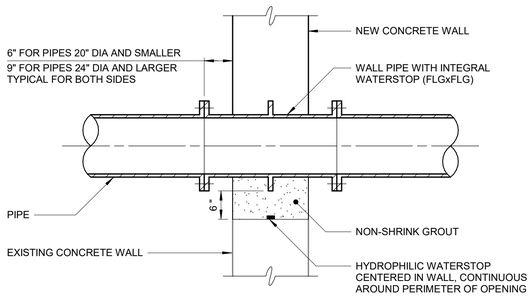

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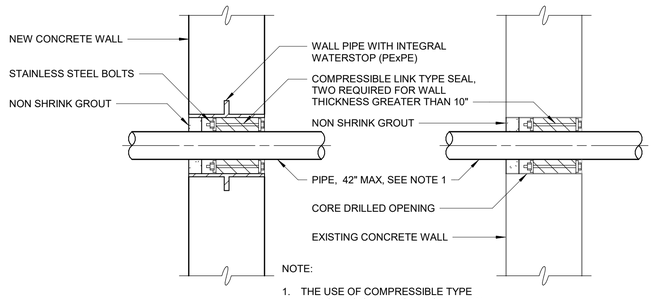

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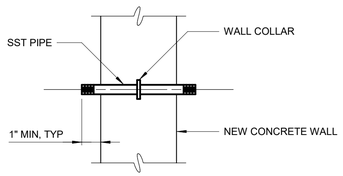

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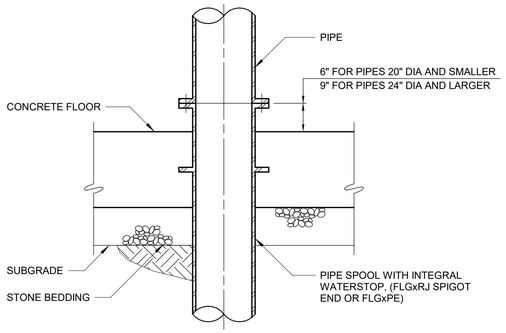

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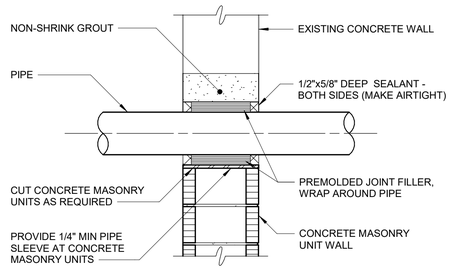

CAULKED WALL PENETRATION

M-40-0114

NOTES:

1. ALL WALL PIPES SHALL BE CAST UNLESS OTHERWISE NOTED.
2. PROVIDE PIPE JOINT WITHIN TWO (2) FEET OF EXTERIOR FACE OF WALL AT CONNECTION TO ALL NEW AND EXISTING STRUCTURES OR MANHOLES.
3. ALL NEW OPENINGS IN EXISTING CONCRETE WALLS AND SLABS SHALL BE SAWCUT OR CORE DRILLED. USE OF JACKHAMMERS OR STITCH DRILLING SHALL NOT BE PERMITTED. ANNULAR SURFACE SHALL BE SMOOTH. ANNULAR SURFACE SHALL BE ROUGHENED BY APPROVED METHODS WHEN INSTALLATION OF NONSHRINK GROUT IS REQUIRED AT EXISTING CONCRETE WALLS.

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2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	R. McCONNELL
DRAWN BY:	E. MENZEL
CHECKED BY:	R. TOMKO

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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

PROCESS MECHANICAL STANDARD DETAILS
MECHANICAL
SHEET 1

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	99-MD-001

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-General-Mech.rvt
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SCHEDULE A

BASE ELBOW (TEE) (DIM IN INCHES)

PIPE SIZE	A	B	C	D DIA
3	1 1/2	5	4 7/8	1/2
4	2	6	5 1/2	5/8
5-6	2 1/2	7	VARIES	5/8
8-10	4	9	VARIES	5/8
12-16	6	11	VARIES	3/4
18-24	8	13 1/2	VARIES	3/4
30	10	16	23	7/8
36	12	19	26	7/8

SCHEDULE B

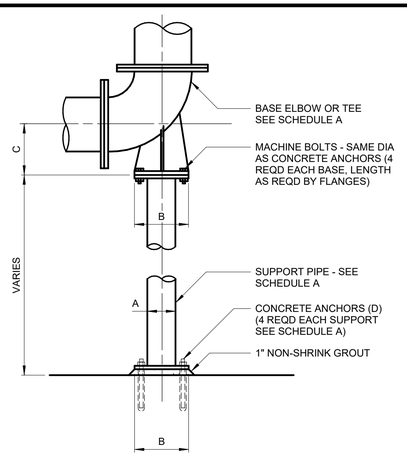
ADJUSTABLE SADDLE (DIM IN INCHES)

PIPE SIZE	A	B	C	D DIA
3	2 1/2	7	1 1/2	5/8
4-12	3	7 1/2	2 1/2	5/8
14-16	4	9	3	5/8
18-20	6	11	3 1/2	3/4
24-48	6	11	4	3/4

SCHEDULE C

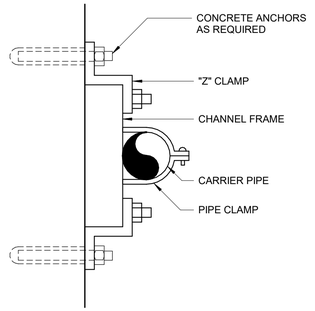
SUPPORT RODS AND BRACKET SPACING
(FOR STANDARD WEIGHT PIPE)

PIPE SIZE (INCHES)	BACK PLATE (INCHES)	MINIMUM ROD Ø (INCHES)		MAX SPAN IN FEET (SEE NOTE 8)			
		PROCESS PIPING	STEEL AIR PIPING	COPPER	PLASTIC	STEEL	DIP (SEE NOTE 7)
UP TO 1	SEE NOTE 4	3/8	3/8	5	5	6	-
1 1/4-2	"	3/8	3/8	8	5	10	-
2 1/2-3 1/2	"	3/8	3/8	8	5	12	6
4-5	"	1/2	3/8	-	5	14	8
6	"	5/8	3/8	-	5	15	9
8-12	"	3/4	1/2	-	5	15	9
14-16	"	7/8	1/2	-	5	15	9
18	"	1	1/2	-	5	18	10
20-24	"	1 1/4	5/8	-	5	18	10



BASE ELBOW (TEE)

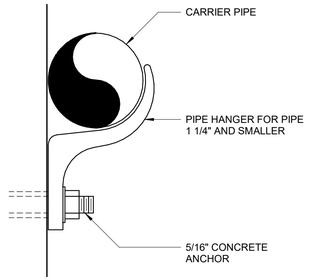
M-40-0300



PIPE WALL SUPPORT AND SUPPORT RACK SHALL BE ASSEMBLED W/ CHANNEL FRAMES AND ACCESSORIES AS MANUFACTURED BY UNISTRUT CORP OR EQUAL

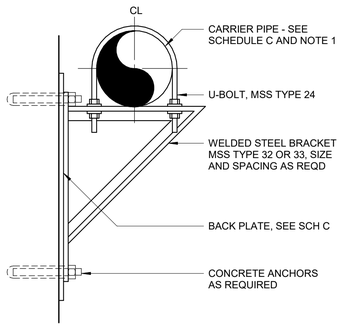
PIPE WALL SUPPORT

M-40-0301



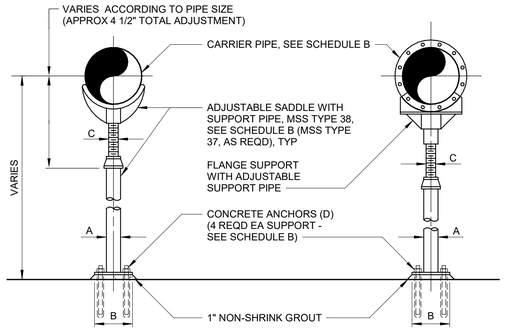
WALL HANGER PIPE SUPPORT

M-40-0302



PIPE SUPPORT BRACKET

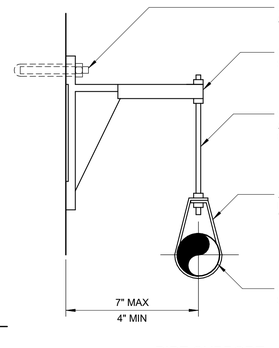
M-40-0303



ADJUSTABLE SADDLE

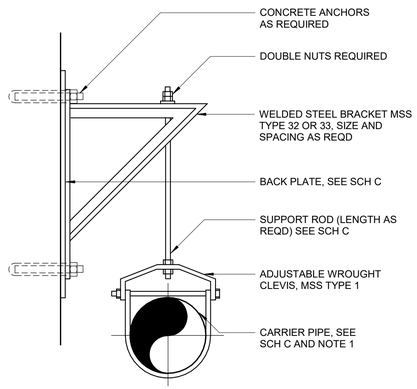
FLANGE SUPPORT

M-40-0304



PIPE SUPPORT BRACKET

M-40-0305



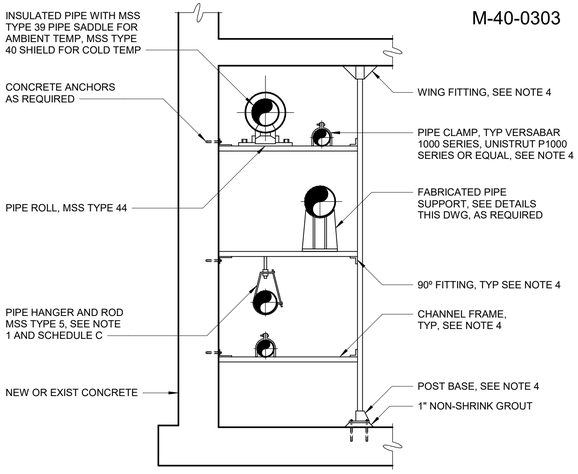
PIPE SUPPORT BRACKET

M-40-0306

SCHEDULE D

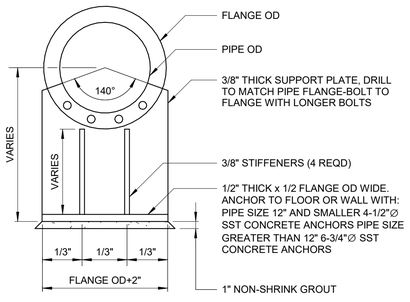
TRAPEZE SUPPORT (DIM IN INCHES)

PIPE SIZE	STEEL TUBE SUPPORT BEAM VERT x HOR	MINIMUM ROD Ø (INCHES)		WASHER PLATE	BASE PLATE			WELD	CONCRETE ANCHOR DIA	MAX SUPPORT SPACING IN FEET (SEE NOTE 8)	
		PROCESS PIPING	STEEL AIR PIPING		A	B	C	D		PROCESS PIPING	STEEL AIR PIPING
12-14	4x4x3/8	1/2	1/2	4x4x1/4	1	10	3/8	3/16	1/2	10	15
16-24	4x4x3/8	3/4	5/8	4x4x3/8	1	10	1/2	3/16	5/8	10	15
30-36	6x4x3/8	1	3/4	4x4x1/2	2	12	1/2	1/4	3/4	10	20
42	6x4x3/8	1 1/4	3/4	5x5x1/2	2	12	3/4	1/4	7/8	10	25
48	8x4x3/8	1 1/2	1	5x5x3/4	2	12	1	1/4	1	10	30



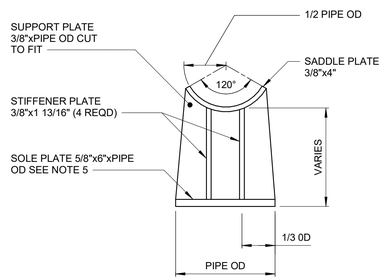
PIPE SUPPORT RACK

M-40-0307



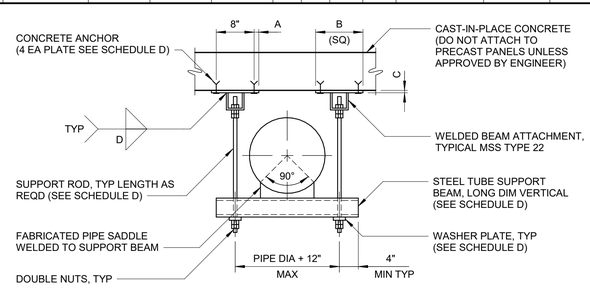
FABRICATED PIPE SUPPORT (AT FLANGE)

M-40-0308



FABRICATED PIPE SUPPORT (AT PIPE)

M-40-0309



TRAPEZE SUPPORT

M-40-0310

NOTES:

1. CONTRACTOR SHALL DESIGN THE SUPPORT SYSTEMS BASED ON ACTUAL WEIGHTS AND CONDITIONS AS SPECIFIED OR AS SHOWN ON THE CONTRACT DRAWINGS. PIPE HANGERS, SUPPORTS AND BRACKETS SHOWN HERE IN VARIOUS COMBINATIONS REPRESENT MINIMUM REQUIREMENTS FOR ACCEPTABLE SUPPORTS AS TO TYPES, MATERIALS, THICKNESSES, ORIENTATION, AND QUALITY. CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS AND DETAILS FOR PIPE SUPPORTS SEALED BY A PROFESSIONAL ENGINEER LICENSED BY THE STATE OR COMMONWEALTH WHERE THE PROJECT IS LOCATED WITH ALL PIPE HANGER AND SUPPORT SUBMISSIONS FOR REVIEW BY THE ENGINEER. WHEN SUBMITTING PROPOSED PIPE SUPPORTS AND SUPPORT LOCATIONS, THE CONTRACTOR SHALL USE APPROVED PIPING LAYOUT SUBMITTAL DRAWINGS TO SHOW PROPOSED PIPE SUPPORT TYPE AND LOCATION WITH ACCURATE DIMENSIONS TO DEMONSTRATE THAT SUPPORTS DO NOT EXCEED THE MAXIMUM SPACING REQUIREMENTS OF SECTION 40 05 07. THIS ENSURES THAT SUPPORTS HAVE BEEN COORDINATED WITH ACTUAL PIPE INSTALLATION DRAWINGS. AND THAT SPACING DOES NOT EXCEED MAXIMUM ALLOWABLE SPACING. THE PIPE SUPPORTS SHOWN AND REFERENCED UNDER SCHEDULES A, B & C ARE DESIGNED AND DETAILED FOR GRAVITY LOADING ONLY. RESULTING LATERAL LOADS FROM CONSTRUCTION CONDITIONS, DESIGN SEISMIC EVENT OR OTHER RELATED CONDITIONS SHALL BE APPLIED TO THE PIPE AND OTHER NON-STRUCTURAL COMPONENTS IN ACCORDANCE WITH THE GOVERNING BUILDING CODE. SUPPLEMENTAL LATERAL STIFFNESS, RESISTANCE AND MEMBERS (WHEN NECESSARY) SHALL BE PROVIDED ALONG PIPE OR AT GRAVITY SUPPORTS AND CONNECTIONS WHEN REQUIRED BY CALCULATIONS.
2. TYPICALLY, REINFORCED CONCRETE SUPPORTS SHALL BE USED WHEN PIPE CENTERLINE IS LESS THAN 3-FEET ABOVE CONCRETE FLOOR OR FINISHED GRADE, AND AT A MINIMUM, SHALL CONFORM TO STANDARD DETAIL S-03-0505.
3. MSS REFERS TO THE MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE AND FITTINGS INDUSTRY, STANDARD PRACTICE SP-58 AND SP-69.
4. PIPE WALL SUPPORT AND PIPE SUPPORT RACK SHALL BE ASSEMBLED WITH CHANNEL FRAMES AND ACCESSORIES AS MANUFACTURED BY UNISTRUT CORP, OR VERSABAR CORP, OR EQUAL.
5. FABRICATED PIPE SUPPORT MAY BE USED AS SHOWN IN PIPE SUPPORT RACK DETAIL, OR TO SUPPORT PIPE FROM THE FLOOR.
6. BACK PLATES SHALL BE DESIGNED BY THE CONTRACTOR ACCORDING TO WALL TYPES AND THE WEIGHTS INVOLVED. BACK PLATE TO BE SUPPLIED BY BRACKET MANUFACTURER.
7. ALL INSULATED PIPES SHALL USE A SHIELD (MSS TYPE 40) WITH THE APPLICABLE PIPE SUPPORT.
8. MINIMUM OF ONE HANGER PER PIPE SECTION, CLOSE TO JOINT, ON THE BARREL. ALSO AT CHANGE IN DIRECTION AND BRANCH CONNECTIONS.
9. RODS AND SPACING ARE BASED ON STANDARD WEIGHT MATERIALS ACCORDING TO MSS SP-69. AND ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL SPACE HANGERS BASED ON ACTUAL CONDITIONS.
10. REFER TO THE APPROPRIATE AND RELATED SPECIFICATION SECTIONS AND DRAWINGS OF THE CONTRACT DOCUMENTS REGARDING SUPPLEMENTAL DESIGN REQUIREMENTS RELATING TO PERFORMANCE SUBMISSIONS BY CONTRACTOR. ALL NON-STRUCTURAL COMPONENTS, INCLUDING PIPING, HVAC DUCT, PLUMBING AND ELECTRICAL CONDUIT SUPPORT SYSTEMS SHALL BE ADEQUATELY DESIGNED AND INSTALLED UTILIZING SUFFICIENT CONNECTIONS AND MEMBERS TO ACCOMMODATE AND RESIST THE DESIGN LATERAL FORCES ASSOCIATED WITH A SPECIFIC COMPONENT'S DYNAMIC INERTIA DURING THE DESIGN SEISMIC EVENT. REFER TO THE GENERAL STRUCTURAL NOTES FOR STRUCTURAL DESIGN INFORMATION FOR SPECIFIC SEISMIC DESIGN CRITERIA.

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CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

PROCESS MECHANICAL STANDARD DETAILS
MECHANICAL
SHEET 2

DATE: NOVEMBER 2025
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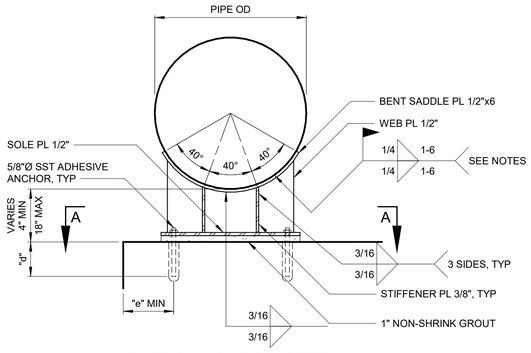
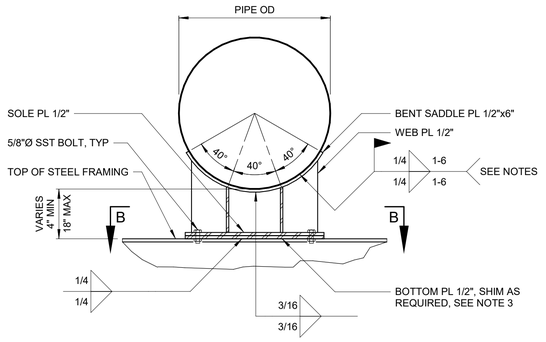
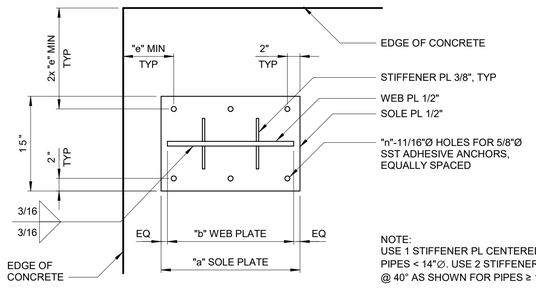


FIXED SUPPORT-CONCRETE



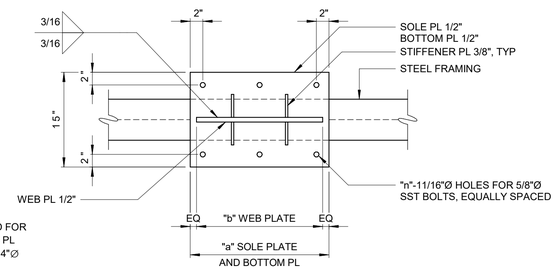
FIXED SUPPORT-STEEL



SECTIONAL PLAN A-A

FIXED SUPPORT FOR
4"-24" PROCESS AIR PIPE
MOUNTED ON CONCRETE

NOTE:
USE 1 STIFFENER PL CENTERED FOR PIPES < 14"Ø. USE 2 STIFFENER PL @ 40° AS SHOWN FOR PIPES ≥ 14"Ø



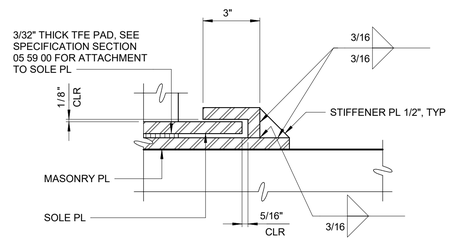
SECTIONAL PLAN B-B

FIXED SUPPORT FOR
4"-24" PROCESS AIR PIPE
MOUNTED ON STEEL

PIPE DIA	"a"	"b"	"n"	"d"	"e"
4"	8"	4"	4	4"	4"
6"	10"	4"	4	5"	6"
8"	12"	6"	4	5"	6"
10"	12"	6"	4	5"	6"
12"	12"	8"	4	5"	7"
14"	12"	10"	4	5"	8"
16"	14"	12"	4	8"	8"
18"	16"	14"	4	10"	8"
20"	18"	16"	6	6"	8"
24"	22"	20"	6	6"	8"

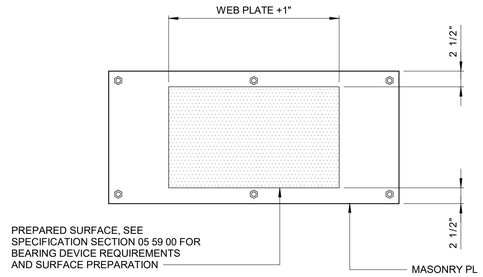
COMMENTS:
- FOR PIPE 18" AND SMALLER, THE PIPE SUPPORT WAS DESIGNED FOR LONGITUDINAL, TRANSVERSE, AND UPLIFT INTERNAL THRUST LOADS ACTING CONCURRENTLY.
- FOR PIPE 20" AND 20" MOUNTED ON CONCRETE, THE PIPE SUPPORT WAS DESIGNED FOR LONGITUDINAL AND UPLIFT INTERNAL THRUST LOAD ONLY.

M-40-0400



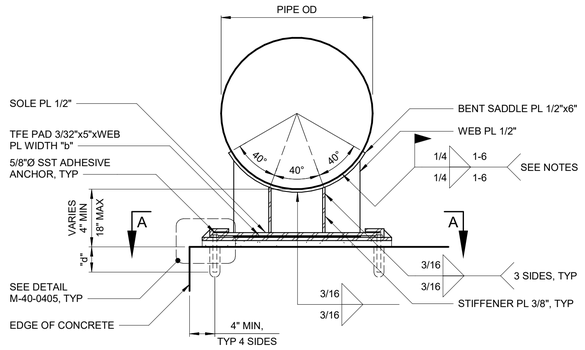
SLIDING PLATE HOLD-DOWN

M-40-0405

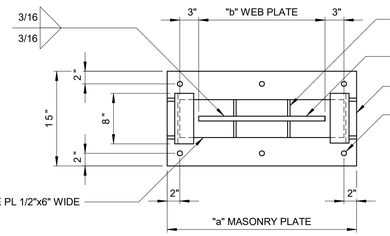


MASONRY PL BEARING SURFACE PREPARATION

M-40-0406



SLIDING SUPPORT-CONCRETE



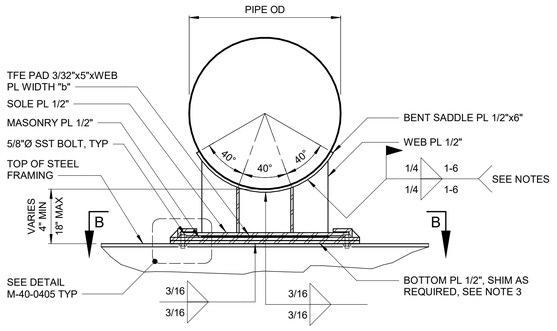
SECTIONAL PLAN A-A

SLIDING SUPPORT FOR
4"-24" PROCESS AIR PIPE
MOUNTED ON CONCRETE

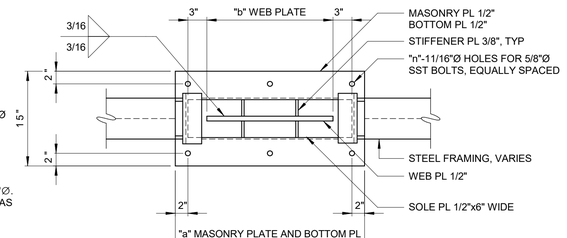
NOTE:
USE 1 STIFFENER PL CENTERED FOR PIPES < 14"Ø. USE 2 STIFFENER PL @ 40° AS SHOWN FOR PIPES ≥ 14"Ø

PIPE DIA	"a"	"b"	"n"	"d"
4"	12"	4"	4	4"
6"	14"	4"	4	4"
8"	16"	6"	4	4"
10"	16"	6"	4	4"
12"	18"	8"	4	4"
14"	20"	10"	4	4"
16"	22"	12"	4	4"
18"	2'-0"	14"	4	5"
20"	2'-2"	16"	6	5"
24"	2'-6"	20"	6	6"

M-40-0401



SLIDING SUPPORT-STEEL



SECTIONAL PLAN B-B

SLIDING SUPPORT FOR
4"-24" PROCESS AIR PIPE
MOUNTED ON STEEL

PROCESS AIR PIPE SUPPORT NOTES:

1. MATERIAL OF SUPPORT FROM SOLE PLATE AND ABOVE SHALL MATCH MATERIAL OF PIPE.
2. MATERIAL OF BOTTOM PLATE SHALL MATCH MATERIAL OF STEEL FRAMING BELOW.
3. SHIM PLATE SHALL BE LOCATED ON TOP OF BOTTOM PLATE AND SHALL HAVE THE SAME DIMENSIONS AS BOTTOM PLATE.
4. DISSIMILAR METALS SHALL BE ISOLATED PER 40 05 00.
5. AIR PIPE SHALL BE FULLY INSTALLED PRIOR TO FIELD WELDING SADDLE PLATES TO PIPE.
6. ALL WORK INCLUDING FIELD WELDS SHALL BE APPROVED BY ENGINEER PRIOR TO TESTING OF AIR PIPE.
7. SOLE PLATE SHALL BE CENTERED ON MASONRY PLATE ON INITIAL INSTALLATION.

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: R. McCONNELL
DRAWN BY: E. MENZEL
CHECKED BY: R. TOMKO
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY DANIEL D. SEBUSCH, P.E. No. 030101 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

PROCESS MECHANICAL STANDARD DETAILS
MECHANICAL
SHEET 3

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 99-MD-003

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-General-Mech.rvt
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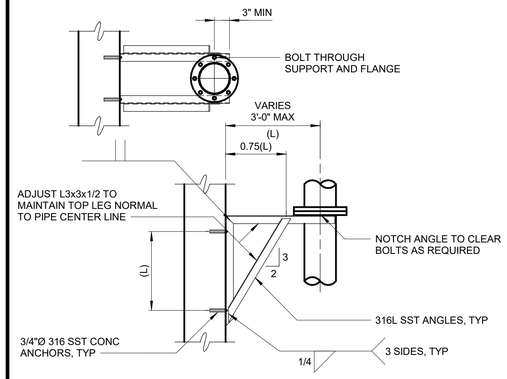
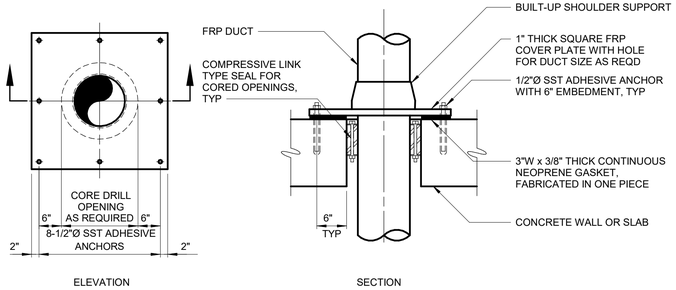


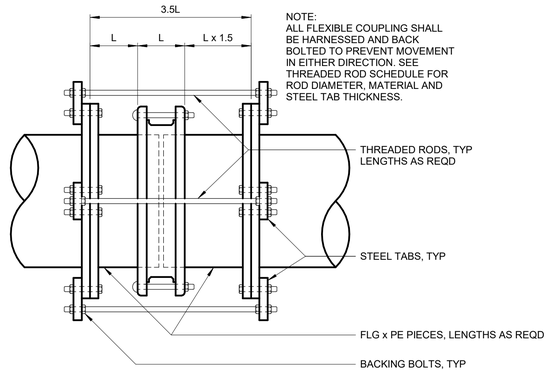
FLANGE TYPE SUPPORT

M-40-0311



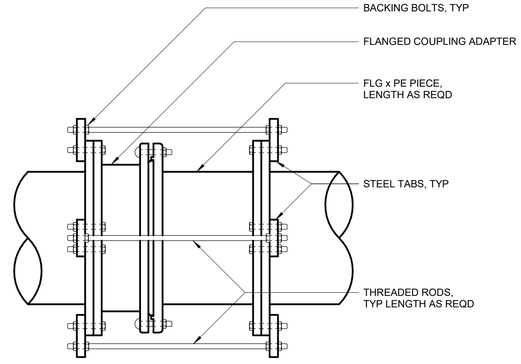
DUCT PENETRATION THRU WALL OR SLAB

M-40-0423



HARNESSED SLEEVE TYPE COUPLING

M-40-0701



NOTE:
ALL FLANGED COUPLING ADAPTERS SHALL BE HARNESSED AND BACK BOLTED TO PREVENT MOVEMENT IN EITHER DIRECTION. SEE THREADED ROD SCHEDULE FOR ROD DIAMETER, MATERIAL AND STEEL TAB THICKNESS.

HARNESSED FLANGED COUPLING ADAPTER

M-40-0702

THREADED ROD SCHEDULE

PIPE SIZE	REQUIRED TIE QUANTITY FOR DESIGN PRESSURE					THREADED ROD SIZE, INCHES	TAB THICKNESS, INCHES
	50 PSI	100 PSI	150 PSI	200 PSI	250 PSI		
3	2	2	2	2	2	5/8	1/2
4	2	2	2	2	2	5/8	1/2
6	2	2	2	2	2	5/8	3/4
8	2	2	2	3	3	5/8	3/4
10	2	2	2	3	3	3/4	1
12	2	2	2	3	3	7/8	1
14	2	2	2	3	3	1	1
16	2	2	2	3	4	1	1
18	2	2	3	4	5	1	1
20	2	3	4	5	6	1	1
24	2	3	5	6	9	1	1
30	2	3	5	6	9	1 1/4	1 1/4
36	3	5	7	9	12	1 1/4	1 1/4
42	3	6	9	12	16	1 1/4	1 1/4
48	3	6	8	11	15	1 1/2	1 3/4
54	4	7	10	14	18	1 1/2	1 3/4
60	5	9	13	17	23	1 1/2	1 3/4
64/66	4	8	11	15	20	1 3/4	2
72	5	9	13	18	24	1 3/4	2

1. THREADED RODS FOR ALL PIPE DIAMETERS SHALL BE ASTM A193 (GRADE B7).
2. ALL TABS SHALL BE ASTM A36 STEEL.
3. ASTM A193 (GRADE B7) RODS SHALL BE LABELED AND BUNDLED SEPARATELY.
4. THIS SCHEDULE SHALL APPLY FOR HARNESSED FLANGED ADAPTERS, HARNESSED FLEXIBLE COUPLINGS AND ALL MECHANICAL JOINT COUPLINGS, SLEEVES ETC. THAT ARE REQUIRED TO BE HARNESSED.
5. RODS THREADED AT ENDS (INCLUDING NUTS) SHALL BE EQUALLY SPACED AROUND PIPE BETWEEN ALL MECHANICAL JOINT FITTINGS (TEE, VALVES, BEND, PLUG, ETC.) OR AS OTHERWISE SHOWN ON THE CONTRACT DRAWINGS. THREADED RODS SHALL BE AS SHOWN IN THE THREADED ROD SCHEDULE. SEE NOTE 6.
6. RODS, NUTS, ETC., IN CONTACT WITH SOIL SHALL BE PAINTED WITH TWO COATS COAL TAR (MIN 26 DRY MIL THICKNESS) TNEMEC 46-465 HI-BUILD OR EQUAL.

M-40-0780

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: R. McCONNELL
DRAWN BY: E. MENZEL
CHECKED BY: R. TOMKO
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY DANIEL D. SEBUSCH, P.E. No. 030101 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

PROCESS MECHANICAL STANDARD DETAILS
MECHANICAL
SHEET 4

DATE: NOVEMBER 2025
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DRAWING NUMBER: 99-MD-004

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-General-Mech.rvt
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GENERAL STRUCTURAL NOTES

G-1 THESE NOTES ARE GENERAL AND SUPPLEMENT THE SPECIFICATIONS. THESE NOTES APPLY TO THE ENTIRE PROJECT UNLESS MODIFIED OR NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.

G-2 STANDARD DETAILS SHALL BE USED WHEN REFERRED TO OR WHEN NO MORE RESTRICTIVE OR DIFFERENT DETAILS ARE SHOWN ON THE DRAWINGS.

G-3 DESIGN IS IN ACCORDANCE WITH AND CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF THE GEORGIA STATE BUILDING CODE WHICH IS THE 2018 INTERNATIONAL BUILDING CODE WITH 2020, 2022, 2024, AND 2025 GEORGIA AMENDMENTS. THE DESIGN LOADS AND OTHER DESIGN VALUES GIVEN IN NOTES G-4 THROUGH G-8 WERE USED FOR DESIGN OF STRUCTURES UNLESS NOTED OTHERWISE ON THE DRAWINGS.

G-4 LIVE LOADS:

STRUCTURE \ LEVEL	ROOF	INTERMEDIATE LEVEL	BOTTOM / GROUND FLOOR
CAKE HANDLING	N/A	N/A	300 PSF
THERMAL DRYER FACILITY	20 PSF	20 PSF	300 PSF
FINAL EFFLUENT WATER PUMP STATION	N/A	N/A	300 PSF

-ALL STAIRWAYS, LANDINGS AND PLATFORMS ARE DESIGNED FOR A LIVE LOAD = 150 PSF UNLESS NOTED OTHERWISE.

G-5 SNOW LOAD:

GROUND SNOW LOAD (Pg) = 5 PSF
FLAT-ROOF SNOW LOAD (Pf) = 3.9 PSF
SNOW EXPOSURE FACTOR (Ce) = 0.9
SNOW LOAD IMPORTANCE FACTOR (Is) = 1.10
THERMAL FACTOR (Ct) = 1.0

G-6 WIND DESIGN CRITERIA:

BASIC DESIGN WIND SPEED (V) = 113 MPH
ALLOWABLE STRESS DESIGN WIND SPEED (Vasd) = 87 MPH
RISK CATEGORY = III
WIND IMPORTANCE FACTOR (Iw) = 1.0
WIND EXPOSURE = C

STRUCTURE \ PARAMETER	PRESSURE COEFFICIENT GCpi	WIND DESIGN PRESSURE	COMPONENTS AND CLADDING	LATERAL LOAD RESISTING SYSTEM
THERMAL DRYER FACILITY	±0.18	26.6 PSF	38.3 PSF	STEEL MOMENT FRAME

G-7 SEISMIC LOAD:

RISK CATEGORY = III
SEISMIC IMPORTANCE FACTOR (Ie) = 1.25
SITE CLASS = D
MAPPED SPECTRAL RESPONSE ACCELERATIONS (Ss/S1) = 0.229/0.091
SPECTRAL RESPONSE ACCELERATIONS (SMS/SM1) = 0.367/0.219
SPECTRAL RESPONSE COEFFICIENTS (SDS/SD1) = 0.245/0.146
SEISMIC DESIGN CATEGORY = C

STRUCTURE \ PARAMETER	BASIC STRUCTURAL SYSTEM	DESIGN BASE SHEAR	SEISMIC RESPONSE COEFFICIENT Cs	RESPONSE MODIFICATION COEFFICIENT R	ANALYSIS PROCEDURE
THERMAL DRYER FACILITY	STEEL MOMENT FRAME	BY MFR	BY MFR	BY MFR	EQUIVALENT LATERAL FORCE

G-8 RAIN LOAD:
RAIN INTENSITY (i) = 3.69 IN/HR

G-9 ALL DIMENSIONS INDICATED FOR EXISTING STRUCTURES SHALL BE VERIFIED BY FIELD MEASUREMENT. ALL DIMENSIONS THAT ARE CONTROLLED BY OR RELATED TO EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR WITH THE MANUFACTURER SHOP DRAWINGS PRIOR TO CONSTRUCTION.

G-10 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION IN THE FIELD AS REQUIRED FOR NEW WORK.

G-11 IF A CONFLICT IS FOUND BETWEEN DIFFERENT PORTIONS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. CONTINUED CONSTRUCTION OF THE AREA IN CONFLICT SHALL BE AT THE CONTRACTOR'S OWN RISK UNTIL THE CONFLICT IS RESOLVED.

G-12 EQUIPMENT ANCHOR SIZES, TYPES, EMBEDMENT AND PATTERNS SHALL BE DESIGNED BY THE MANUFACTURER OF THE EQUIPMENT. IF EQUIPMENT MANUFACTURER IS UNABLE TO PROVIDE DESIGN OF ANCHOR EMBEDMENT, DESIGN SHALL BE BY ENGINEER RETAINED BY CONTRACTOR BASED ON LOADS PROVIDED BY EQUIPMENT MANUFACTURER. CONTRACTOR SHALL SUBMIT SIZE, PLACEMENT, AND EMBEDMENT REQUIREMENTS. ALL ANCHOR PATTERNS SHALL BE TEMPLATED TO ENSURE ACCURACY OF PLACEMENT.

G-13 STRUCTURAL DRAWINGS SHALL BE USED IN COORDINATION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND MANUFACTURER'S SHOP DRAWINGS.

G-14 STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ON THE COMPLETED STRUCTURE. DURING CONSTRUCTION, THE STRUCTURES SHALL BE PROTECTED BY BRACING AND TEMPORARY SUPPORTS WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR. OVERSTRESSING OF ANY STRUCTURAL ELEMENT IS PROHIBITED.

G-15 IF CONTRACTOR DESIRES TO TEMPORARILY PLACE OR MOVE LOADS ON OR ADJACENT TO EXISTING STRUCTURES OR UTILITIES DURING CONSTRUCTION PROCESS, CONTRACTOR IS EXCLUSIVELY RESPONSIBLE FOR MAINTAINING STRUCTURAL INTEGRITY AND AVOIDING OVERSTRESSING AND DAMAGING EXISTING STRUCTURES AND UTILITIES. CONTRACTOR SHALL SUBMIT STRUCTURAL CALCULATIONS AND DRAWINGS VERIFYING THAT PROPOSED CONSTRUCTION {INCLUDING APPLICATION OF TEMPORARY CONSTRUCTION LOADS} WILL NOT OVERSTRESS OR DAMAGE EXISTING STRUCTURES AND UTILITIES. DRAWINGS AND CALCULATIONS SHALL BE SEALED BY A PROFESSIONAL ENGINEER CURRENTLY REGISTERED IN THE STATE OF GEORGIA.

STRUCTURAL METALS

M-1 DETAIL, FABRICATE, AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH ANSI/AISC 360 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST EDITION.

M-2 STEEL MATERIAL:

A)	STRUCTURAL HSS:	ASTM A500, GRADE C (46/50 KSI) OR A1085 GRADE A (50 KSI)
B)	STRUCTURAL PIPE:	ASTM A53, GRADE B (35 KSI)
C)	PLATES, BARS AND ANGLES:	ASTM A36 UNO (36 KSI)
D)	STRUCTURAL W, C, & MC SHAPES:	ASTM A992 (50 KSI)
E)	STRUCTURAL M & S SHAPES:	ASTM A36 (36 KSI)
F)	STRUCTURAL HP	ASTM A572 GRADE 50 (50 KSI)
G)	ANCHOR RODS	ASTM F1554 GRADE 55 (55 KSI)

M-3 PROVIDE MINIMUM 3/4" DIAMETER ASTM F3125 GRADE A325 TYPE 1 OR GRADE F1852 TYPE 1 HIGH STRENGTH BOLTS WITH SNUG TIGHTENED TYPE N CONNECTIONS FOR STRUCTURAL STEEL UNLESS NOTED OTHERWISE. HOLES FOR BOLTS SHALL BE STANDARD SIZE UNLESS NOTED OTHERWISE.

M-4 PROVIDE TYPICAL STEEL BEAM CONNECTIONS FOR A CAPACITY OF NOT LESS THAN ONE HALF OF THE TOTAL UNIFORM LOAD CAPACITY TABULATED IN THE AISC TABLES FOR ALLOWABLE LOADS OF BEAMS UNLESS NOTED OTHERWISE.

M-5 DO NOT PAINT STEEL SURFACES WHICH ARE TO BE WELDED OR ARE TO BE ENCASED IN CONCRETE.

M-6 ALL STAINLESS STEEL FABRICATIONS EXPOSED TO UNDERWATER SERVICE SHALL BE TYPE 316. ALL OTHER STAINLESS STEEL FABRICATIONS SHALL BE TYPE 304 UNLESS NOTED OTHERWISE.

M-7 ALUMINUM SHALL BE ALLOY 6061-T6 UNLESS NOTED OTHERWISE.

M-8 ALL BOLTS, ANCHORS, AND CONCRETE ANCHORS CONNECTING ALUMINUM SHALL BE STAINLESS STEEL TYPE 316 FOR UNDERWATER APPLICATIONS AND TYPE 304 FOR ALL OTHER APPLICATIONS.

M-9 ALUMINUM SHALL BE ISOLATED FROM CONTACT WITH CONCRETE AND DISSIMILAR METALS.

M-10 ALL GROOVE AND BUTT WELDS SHALL BE FULL PENETRATION.

M-11 FILLET WELD SIZES SHALL NOT BE LESS THAN THE MINIMUM SIZE REQUIRED BY AISC CODE FOR PLATE SIZES TO BE CONNECTED AND SHALL BE APPLIED TO THE ENTIRE JOINT CONTACT LENGTH, AND NOT LESS THAN 3/16".

M-12 ALL WELDS SHALL BE PERFORMED IN THE SHOP UNLESS NOTED BY A FIELD WELD SYMBOL OR APPROVED BY ENGINEER.

M-13 BOTTOM SURFACES OF BASE PLATES SHALL BE GROUTED TO ENSURE FULL BEARING CONTACT WITH CONCRETE SLAB.

M-14 WHENEVER ONE MEMBER IS FASTENED TO ANOTHER WITH FASTENINGS (BOLTS, WELDS, ETC.) SET AT A UNIFORM SPACING, A MINIMUM OF TWO FASTENINGS PER PIECE SHALL BE CONNECTED AND THE FIRST AND LAST FASTENINGS SHALL BE LOCATED NOT TO EXCEED 0.25 OF FASTENER SPACING FROM EACH END.

M-15 GRATING PANELS SHALL BE CONFINED TO PREVENT MOVEMENT PER STANDARD DETAIL S-05-0706. USE OF GRATING CLIP ATTACHMENT IS NOT ACCEPTABLE TO PREVENT GRATING MOVEMENT.

FOUNDATIONS

F-1 CONCRETE (CAST-IN-PLACE) NOTES APPLY TO FOUNDATIONS.

F-2 ALLOWABLE SOIL BEARING PRESSURE

STRUCTURE \ PARAMETER	ALLOWABLE SOIL BEARING PRESSURE
CAKE HANDLING	1,500 PSF
THERMAL DRYER FACILITY	1,800 PSF
FINAL EFFLUENT WATER PUMP STATION	1,200 PSF

F-3 MINIMUM DEPTH FROM ADJACENT FINISHED GRADE TO BOTTOM OF FOUNDATION = 12 INCHES.

PRECAST CONCRETE

PC-1 PRECAST STRUCTURAL MEMBERS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA OPENINGS TO ALLOW VENT PIPES, STRUCTURAL STEEL BRACING AND COLUMNS TO PASS THROUGH SHALL BE PROVIDED.

PC-2 PRECAST VAULTS AND MANHOLES SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA STRUCTURAL DRAWINGS SHALL INDICATE DESIGN IS IN COMPLIANCE WITH THE GEORGIA BUILDING CODE.

CONCRETE (CAST-IN-PLACE)

C-1 DESIGN OF CONCRETE ELEMENTS INCLUDING WALLS, FORMED SLABS, BEAMS, AND COLUMNS IS IN ACCORDANCE WITH ACI 318 (CODE REQUIREMENTS FOR STRUCTURAL CONCRETE) AND 350 (CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES).

C-2 CONCRETE STRENGTH CLASSES (28-DAY COMPRESSIVE STRENGTH):

A) CLASS A1 CONCRETE (4,500 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE TO BE USED IN ALL STRUCTURES QUALIFYING AS ENVIRONMENTAL CONCRETE STRUCTURES THAT ARE DESIGNED IN ACCORDANCE WITH ACI 350 INCLUDING PUMP STATIONS, TANKS, BASINS, PROCESS STRUCTURES, AND ANY STRUCTURES CONTAINING FLUID OR PROCESS CHEMICALS OR OTHER MATERIALS USED IN TREATMENT PROCESS.

B) CLASS A2 CONCRETE (4,500 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE IN ALL STRUCTURES OTHER THAN STRUCTURES QUALIFYING AS ENVIRONMENTAL CONCRETE STRUCTURES AS DESCRIBED ABOVE, AND FOR ALL SIDEWALKS, CURB AND GUTTERS, AND PAVEMENT.

C) CLASS A3 CONCRETE (4,500 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE TO BE USED FOR INTERIOR SLABS WHERE A TYPE "D" STEEL TROWELED FINISH OR TYPE "G" HARDENED FINISH IS REQUIRED. CLASS A3 CONCRETE SHALL NOT CONTAIN ENTRAINED AIR.

F) CLASS B CONCRETE (3,000 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE USED FOR DUCT BANK ENCASEMENTS, CATCH BASINS, FENCE AND GUARD POST EMBEDMENT, CONCRETE FILL, AND OTHER AREAS WHERE SPECIFICALLY NOTED ON CONTRACT DRAWINGS.

C-3 ALL BAR REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064.

C-4 CONCRETE COVER FOR REINFORCING (UNLESS NOTED OTHERWISE ON THE DRAWINGS):

A)	CONCRETE DEPOSITED DIRECTLY AGAINST SOIL:	3"
B)	CONCRETE EXPOSED TO WEATHER (#5 OR SMALLER):	1 1/2"
	CONCRETE EXPOSED TO WEATHER (#6 OR LARGER):	2"
C)	SLABS:	1 1/2"
	AT SURFACES CONTACTING FLUID:	2"
D)	BEAMS AND COLUMNS (TO MAIN REINFORCEMENT):	2"
	BEAMS AND COLUMNS (TO COLUMN TIES OR STIRRUPS):	1 1/2"
E)	WALLS 12" OR MORE:	2"
	WALLS LESS THAN 12" (#5 OR SMALLER):	1 1/2"
	WALLS LESS THAN 12" (#6 OR LARGER):	2"
F)	FOR SURFACES EXPOSED TO FLUID IN BEAMS, COLUMNS AND WALLS:	ADD 1/2" TO ABOVE VALUES

C-5 SPLICES SHALL BE CLASS "B" CONFORMING TO THE PROVISIONS OF ACI 318 UNLESS NOTED OTHERWISE. SPLICE LENGTH FOR TWO DIFFERENT SIZED BARS TO BE LAP SPLICED TOGETHER SHALL BE THE LENGTH OF THE LARGER BAR UNLESS NOTED OTHERWISE.

C-6 CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS. CONSTRUCTION JOINTS NOT SHOWN SHALL BE SUBMITTED BY THE CONTRACTOR FOR THE APPROVAL OF THE ENGINEER PRIOR TO SUBMITTING REBAR SHOP DRAWINGS.

C-7 ALL JOINTS WHICH ARE IN MEMBERS IN CONTACT WITH LIQUID OR BELOW GRADE SHALL HAVE A WATERSTOP. CONSTRUCTION JOINTS SHALL HAVE A 6" PVC RIBBED WATERSTOP. EXPANSION JOINTS SHALL HAVE A 9" PVC CENTER BULB RIBBED WATERSTOP. IN VERTICAL JOINTS, WATERSTOPS SHALL TERMINATE NO LESS THAN 18" ABOVE THE MAXIMUM WATER SURFACE OR 18" ABOVE GRADE, WHICHEVER IS HIGHER.

C-8 UNLESS SPECIFICALLY NOTED OTHERWISE, WALLS ABOVE INTERSECTING SLABS OF ALL LIQUID CONTAINING AND BELOW GRADE STRUCTURES SHALL HAVE HORIZONTAL REINFORCEMENT SPACING OF 6" MAXIMUM IN THE 6'-0" ZONE ABOVE THE CONSTRUCTION JOINT, SEE STANDARD DETAIL S-03-0115.

C-9 ALL EXPOSED CORNERS SHALL HAVE A 3/4" CHAMFER.

C-10 EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT REQUIRED BY OTHER CONTRACT DOCUMENTS, SHALL BE INSTALLED PRIOR TO PLACING CONCRETE.

C-11 REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY METAL PIPE, PIPE FLANGE, METAL CONDUIT, OR OTHER METAL PARTS EMBEDDED IN CONCRETE. A MINIMUM CLEARANCE OF 2" SHALL BE PROVIDED.

C-12 CONDUITS AND OTHER SIMILAR ITEMS EMBEDDED IN OR PENETRATING THROUGH CONCRETE SHALL BE SPACED ON CENTER NOT LESS THAN 3 TIMES THEIR OUTSIDE DIMENSION, BUT NOT LESS THAN 2 1/2" CLEAR. WHEN SUCH ITEMS ARE EMBEDDED IN WALLS OR SLABS, THEY SHALL NOT OCCUPY MORE THAN 1/3 OF THE MEMBER THICKNESS.

C-13 AT ALL TYPICAL CURBS, EQUIPMENT PADS, AND PIPE SUPPORT PIERS, REINFORCING DOWELS SHOWN MAY BE REPLACED WITH ADHESIVE DOWELS AS SPECIFIED. DOWELS LOCATED CLOSER THAN 3" FROM ANY EDGE OF CONCRETE SHALL NOT BE REPLACED WITH DRILLED DOWELS.

C-14 ADJUST THE LOCATION OF DOWELS OR ANCHORS PLACED INTO HARDENED CONCRETE AS NEEDED TO AVOID DRILLING THROUGH ANY REINFORCING BARS. IF THE LOCATION NEEDS TO BE MODIFIED, CONTACT THE ENGINEER. CONTRACTOR SHALL USE NON-DESTRUCTIVE MEANS TO FIELD LOCATE REINFORCEMENT PRIOR TO DRILLING HOLES FOR DOWELS OR ANCHORS.

C-15 CLEAR DISTANCE FROM ANCHOR RODS TO ANY CONCRETE EDGE SHALL BE 4" MINIMUM UNLESS NOTED OTHERWISE.

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2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: G. JOHNSON
DRAWN BY: L. RICH
CHECKED BY: A. THURSTON
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

GENERAL
STRUCTURAL NOTES - SHEET 1

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 00-S-001

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-General-Struc.rvt
2/26/2026 11:27:57 AM

STEEL JOISTS

SJ-1 SEE SPECIFICATION SECTION 05 21 00 FOR STEEL BAR JOISTS. STEEL BAR JOIST DRAWINGS AND CALCULATIONS, FOR MEMBERS, CONNECTIONS, BLOCKING, AND BRACING SHALL BE SEALED BY PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA

SJ-2 STEEL JOISTS SHALL BE DESIGNED PER THE GEORGIA BUILDING CODE USING THE LOADS PROVIDED. LOAD COMBINATIONS SHALL BE AS REQUIRED BY ASCE 7.

SJ-3 JOIST MANUFACTURER SHALL PROVIDE BLOCKING AND BRACING AS REQUIRED FOR LATERAL STABILITY OF JOISTS. PROVIDE BOTTOM CHORD BRACING AS REQUIRED FOR WIND UPLIFT. METAL DECKING PROVIDES LATERAL BRACING FOR JOIST TOP CHORDS.

SJ-4 COORDINATE PIPE, LIGHTING, DUCT, AND OTHER UTILITY SUPPORTS ATTACHED TO JOIST WITH JOIST MANUFACTURER.

MASONRY

MA-1 MASONRY MORTAR SHALL BE ASTM C 270 TYPE "S" AND MASONRY GROUT SHALL CONFORM TO REQUIREMENTS OF ASTM C 476.

MA-2 CONCRETE MASONRY UNIT NET AREA COMPRESSIVE STRENGTH SHALL BE 2,000 PSI WHEN TESTED IN ACCORDANCE WITH ASTM C 140. COMPLETE TEST REPORTS SHALL BE SUBMITTED TO THE BUILDING INSPECTOR.

MA-3 HORIZONTAL JOINT REINFORCEMENT SHALL BE AS SHOWN ON ARCHITECTURAL DRAWINGS. HORIZONTAL JOINT REINFORCEMENT SHALL CONFORM TO ASTM A 951 AND REINFORCEMENT STEEL SHALL CONFORM TO REQUIREMENTS OF ASTM A 615 FOR GRADE 60 BILLET STEEL.

MA-4 EXTERIOR CONCRETE MASONRY UNIT WALLS WITH INSULATION INSERTS SHALL BE REINFORCED WITH #5 VERTICAL BARS AT 32 INCHES ON CENTER, CENTERED IN FULLY GROUTED CELLS, UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ALL CELLS IN CMU WALLS WITH INSULATION INSERTS SHALL BE FULLY GROUTED. INTERIOR CONCRETE MASONRY UNIT WALLS SHALL BE REINFORCED WITH #5 VERTICAL BARS AT 32 INCHES ON CENTER, CENTERED IN FULLY GROUTED CELLS, UNLESS SHOWN OTHERWISE ON DRAWINGS.

MA-5 VERTICAL REINFORCEMENT SHALL BE PROVIDED AT WALL ENDS, CORNERS, AND INTERSECTIONS AND IMMEDIATELY ADJACENT TO ALL OPENINGS, CONTROL JOINTS, AND COLUMNS. SEE STANDARD DETAILS FOR MASONRY OPENINGS.

MA-6 MASONRY REINFORCEMENT LAP SPLICES SHALL BE CONTACT SPLICES. UNLESS NOTED OTHERWISE, LENGTH OF SPLICE FOR SINGLE BARS IN CENTER OF CELLS OF 8" OR LARGER CMU SHALL BE A MINIMUM OF 32 INCHES FOR #5 BARS. LENGTH OF SPLICE FOR OTHER CONDITIONS SHALL BE AS SHOWN ON THE DRAWINGS.

MA-7 BOND BEAMS ARE REQUIRED AT TOP OF ALL CMU WALLS. BOND BEAM REINFORCEMENT SHALL BE CONTINUOUS AT ALL WALL INTERSECTIONS, SEE STANDARD DETAILS. WHERE BOND BEAM REINFORCEMENT IS INTERRUPTED BY OPENINGS REINFORCEMENT SHALL BE PROVIDED WITH 90° HOOKS AT EACH ENDS. BOND BEAM REINFORCEMENT SHALL BE 2-#5 BARS UNLESS OTHERWISE INDICATED.

MA-8 DOWELS SHALL BE EITHER CAST INTO CONCRETE OR INSTALLED WITH DOWEL ADHESIVE SYSTEM. IF CAST, DOWELS SHALL BE FULLY DEVELOPED WITH EITHER A STRAIGHT BAR OR A STANDARD 90 DEGREE HOOK. IF INSTALLED WITH A DOWEL ADHESIVE SYSTEM, DOWEL SHALL BE EMBEDDED A MINIMUM OF 10" INTO CONCRETE AND LOCATED TO AVOID DRILLING THRU ANY REINFORCING BARS.

MA-9 FOR CONCRETE MASONRY LINTELS SEE STANDARD DETAILS FOR MASONRY OPENINGS AND THE CMU OPENING REINFORCEMENT SCHEDULE, UNLESS OTHERWISE NOTED ON DRAWINGS:

METAL BUILDINGS

MB-1 METAL BUILDING DESIGNED AND PROVIDED BY METAL BUILDING MANUFACTURER, SEE SPECIFICATION SECTION 13 34 19. METAL BUILDING DESIGN CALCULATIONS AND DETAILED DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN GEORGIA.

MB-2 LATERAL SUPPORT FOR BUILDING SHALL UTILIZE PORTAL FRAMES AND RIGID FRAMES. BRACED FRAMES ARE NOT PERMITTED. THESE FEATURES CAN ONLY BE PLACED IN DESIGNATED BAYS IDENTIFIED ON DRAWINGS.

MB-3 THE METAL BUILDING FOUNDATION SHALL BE AS SHOWN ON THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL COORDINATE ANCHOR ROD REQUIREMENTS, INCLUDING ADDITIONAL REINFORCEMENT, WITH THE METAL BUILDING MANUFACTURER. A MINIMUM OF FOUR ANCHOR RODS WITH 14 INCH MINIMUM EMBEDMENT SHALL BE PROVIDED FOR ALL COLUMNS (RIGID AND PORTAL FRAMES). THE ENGINEER SHALL VERIFY THE FOUNDATION CAPACITY FOR THE REACTIONS PROVIDED BY THE METAL BUILDING MANUFACTURER, AND PROVIDE REVISIONS IF NECESSARY. THE ENGINEER SHALL CONFIRM ANCHOR ROD EMBEDMENT REQUIREMENTS AFTER COLUMN REACTION LOADS ARE PROVIDED. FOUNDATION DIMENSIONS SHOWN ARE FOR BIDDING PURPOSES AND MAY VARY DEPENDING ON MANUFACTURER SELECTED. FINAL DIMENSIONS SHALL BE VERIFIED AFTER METAL BUILDING MANUFACTURER'S FINAL DESIGN HAS BEEN APPROVED.

MB-4 METAL BUILDING FRAME SHALL BE DESIGNED TO ACCOMMODATE 1/2" OF DIFFERENTIAL SETTLEMENT BETWEEN ADJACENT COLUMN LINES.

MB-5 METAL BUILDING SYSTEM SHALL BE DESIGNED PER THE GEORGIA BUILDING CODE, LOADS, AND PARAMETERS SHOWN ON DRAWING 00-S-001. IN ADDITION TO THESE LOADS, THE ROOF SHALL BE DESIGNED FOR A DEAD LOAD OF 5 PSF PLUS THE BUILDING SELFWEIGHT. FOR WIND UPLIFT, THIS DEAD LOAD SHALL BE REDUCED TO ZERO.

MB-6 ALL APPURTENANCES ATTACHED TO OR SUPPORTING METAL BUILDING SHALL BE DESIGNED AND PROVIDED BY METAL BUILDING MANUFACTURER AS PART OF METAL BUILDING PACKAGE. METAL BUILDING MANUFACTURER AND SUPPLIER SHALL BE TOTALLY RESPONSIBLE FOR COORDINATING ATTACHMENT OF ALL APPURTENANCES TO METAL BUILDING FRAME.

MB-7 THE CONTRACTOR SHALL PROVIDE COMPLETE FABRICATION AND ERECTION DRAWINGS FOR CONSTRUCTION OF THE PREENGINEERED BUILDING WHICH SPECIFY THE REQUIRED MATERIALS, SIZES, AND LOCATIONS OF ALL STRUCTURAL ELEMENTS INCLUDING, BUT NOT LIMITED TO ANY BEAMS, COLUMNS, PORTAL FRAMES, JOISTS, PURLINS, GIRTS, BRACES, ARCHES, AND ROOF PANELS. PROVIDE COMPLETE DETAILS WHICH CLEARLY INDICATE REQUIRED CONNECTIONS BETWEEN ALL STRUCTURAL FRAMING COMPONENTS INCLUDING ANCHORAGE TO FOUNDATION TO ADEQUATELY RESIST ALL APPLICABLE DESIGN LOADS INCLUDING GRAVITY, WIND, AND SEISMIC. DRAWINGS SHALL ALSO SPECIFY THE REQUIRED SIZE, QUANTITY, AND LOCATIONS OF BUILDING ANCHOR BOLTS.

MB-8 AT THE TIME OF FINAL AUTHORIZATION OF THE BUILDING PERMIT, SUBMIT TWO (2) COMPLETE SETS OF FABRICATION AND ERECTION DRAWINGS FOR CONSTRUCTION OF THE PREENGINEERED BUILDING TO THE BUILDING OFFICIAL.

DEMOLITION

D-1 FOR DEMOLITION REQUIREMENTS, REFER TO SPECIFICATION 01 73 00 - EXECUTION OF WORK AND 02 41 00 SITE DEMOLITION.

D-2 CONCRETE DEMOLITION WITHIN STRUCTURES BEING MODIFIED SHALL BE SELECTIVE DEMOLITION AND BY CORE DRILLING OR SAWCUTTING AND CAREFUL REMOVAL OF CONCRETE SHOWN TO BE REMOVED. NO OVER CUTTING OF AREAS TO BE DEMOLISHED SHALL BE PERMITTED. CONTRACTOR SHALL CORE DRILL CORNERS OF OPENING PRIOR TO SAWCUTTING. EXPLOSIVES AND VIBRATORY HAMMERS SHALL NOT BE USED FOR DEMOLITION WORK.

D-3 UNLESS ANCHORING DEVICES AND/OR REINFORCEMENT IS NOTED TO REMAIN FOLLOWING DEMOLITION, REMOVE AND/OR BURN BACK ANCHORS AND REINFORCEMENT STEEL 1/2" MIN BELOW SURFACE AND VOIDS CREATED SHALL BE FILLED WITH EPOXY RESIN BINDER.

D-4 EMBEDDED CONDUIT ENCOUNTERED DURING DEMOLITION WORK LIMITS SHALL BE PERMANENTLY REROUTED AS NECESSARY. CONTRACTOR SHALL SUBMIT PROPOSED MEANS OF REROUTING ANY INTERFERING CONDUIT.

D-5 WHERE DRAWINGS INDICATE A CONCRETE EQUIPMENT PAD TO BE DEMOLISHED, THE FLOOR SLAB SURFACE SHALL BE REPAIRED AS APPROVED BY ENGINEER. FOLLOWING SELECT DEMOLITION AND REMOVAL OF THE EQUIPMENT PAD REMOVAL THE REPAIR SHALL BE:
A. SAWCUT THE FLOOR AROUND THE EQUIPMENT PAD PERIMETER TO A DEPTH OF 1/4".
B. SCARIFY AND REMOVE SLAB CONCRETE WITHIN THE PERIMETER TO A NOMINAL 1/4" DEPTH CLEAN AND REMOVE ALL CONCRETE LAITANCE.
C. RESURFACE THE AREA BY APPLYING A POLYMER MODIFIED OR SILICA FUME ENHANCED CEMENTITIOUS REPAIR MORTAR, APPROVED BY THE ENGINEER, FOLLOWING THE MANUFACTURER'S SURFACE PREPARATION AND APPLICATION RECOMMENDATIONS. LEVEL AND FINISH THE SURFACE TO MATCH THE FLOOR SLAB SURROUNDING AREA.

D-6 PRIOR TO DEMOLITION OF SMALL OPENINGS (LESS THAN 6 INCHES IN SIZE) FOR PENETRATIONS, ETC., CONTRACTOR SHALL USE NON-DESTRUCTIVE MEANS TO FIELD LOCATE REINFORCEMENT. OPENINGS SHALL BE LOCATED TO AVOID CUTTING THROUGH EXISTING REINFORCEMENT, IF POSSIBLE. EXISTING REINFORCEMENT SHALL NOT BE CUT WITHOUT APPROVAL OF ENGINEER.

D-7 CONCRETE SURFACES LEFT EXPOSED FOLLOWING DEMOLITION SHALL BE SEALED WITH EPOXY RESIN COATING SUCH AS DURALKOTE 240 BY EUCLID CHEMICAL, OR APPROVED EQUAL.

D-8 DETAILED CONSTRUCTION AND DEMOLITION PLAN SHALL BE SUBMITTED TO THE ENGINEER AND APPROVED BY THE ENGINEER AND OWNER PRIOR TO BEGINNING CONSTRUCTION. ANY SHUTDOWNS SHALL BE SUBMITTED TO, COORDINATED WITH, AND APPROVED BY THE OWNER. ONCE APPROVED, CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE (3) WEEKS NOTICE TO OWNER PRIOR TO SHUTDOWN.

NONSTRUCTURAL COMPONENT ANCHORAGE AND BRACING

A-1 ANCHORAGE AND BRACING SHALL BE PROVIDED FOR NONSTRUCTURAL COMPONENTS IN ACCORDANCE WITH SPECIFICATION 01 73 23 - ANCHORAGE AND BRACING OF NONSTRUCTURAL COMPONENTS. "NONSTRUCTURAL COMPONENTS" INCLUDES ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING ELEMENTS OR SYSTEMS (AND THEIR SUPPORTS OR ATTACHMENTS) WHICH ARE PERMANENTLY ATTACHED TO A SUPPORTING STRUCTURE. DESIGN OF ANCHORAGE AND BRACING SHALL BE PROVIDED BY CONTRACTOR'S ENGINEER UNLESS SPECIFICALLY DETAILED ON THE CONTRACT DRAWINGS.

A-2 ANCHORAGE AND BRACING OF ALL NONSTRUCTURAL COMPONENTS SHALL BE DESIGNED AND INSTALLED TO RESIST THE CONTROLLING LOAD COMBINATION OF GRAVITY LOADS, OPERATIONAL FORCES, WIND FORCES, SEISMIC FORCES, AND ANY OTHER APPLICABLE FORCES IN ACCORDANCE WITH THE GOVERNING BUILDING CODE. WIND AND SEISMIC FORCES SHALL BE AS PER ASCE 7. COMPONENTS SHALL BE BOLTED, WELDED, OR OTHERWISE POSITIVELY FASTENED WITHOUT CONSIDERATION OF FRICTIONAL RESISTANCE PRODUCED BY THE EFFECTS OF GRAVITY. A CONTINUOUS LOAD PATH OF SUFFICIENT STRENGTH AND STIFFNESS TO RESIST REQUIRED FORCES SHALL BE PROVIDED BETWEEN THE COMPONENT AND THE SUPPORTING STRUCTURE. ANCHORAGE AND BRACING SHALL BE DESIGNED TO RESIST LOADS IN BOTH ORTHOGONAL DIRECTIONS (TRANSVERSE AND LONGITUDINAL) AND SHALL BE DESIGNED AND SEALED BY THE CONTRACTOR'S ENGINEER CURRENTLY REGISTERED IN THE STATE OF GEORGIA.

A-3 COMPONENT REACTION FORCES AT THE POINT OF ATTACHMENT TO THE STRUCTURE SHALL BE SUBMITTED TO AND COORDINATED WITH THE ENGINEER FOR CONFIRMATION THAT SUPPORTING STRUCTURE IS ADEQUATE TO RESIST REQUIRED REACTION FORCES.

A-4 CONTRACTOR SHALL PROVIDE SPECIAL SEISMIC CERTIFICATION (SSC) FROM MANUFACTURER OF EQUIPMENT FOR ALL SYSTEMS REQUIRED BY SPECIFICATIONS. SPECIAL SEISMIC CERTIFICATION SHALL BE IN COMPLIANCE WITH ASCE 7.

EXISTING INFORMATION

X-1 ALL EXISTING INFORMATION SHOWN ON THESE DRAWINGS INCLUDING LOCATION, DIMENSIONS, ELEVATIONS, AND CONFIGURATIONS IS DERIVED FROM THE 2005 AND 2020 CONTRACT DRAWINGS AND IS NOT GUARANTEED TO BE COMPLETE OR CORRECT.

X-2 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION IN THE FIELD AS REQUIRED FOR DEMOLITION AND MODIFICATIONS.

SPECIAL INSPECTIONS

SI-1 SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND THE GEORGIA BUILDING CODE.

DELEGATED STRUCTURAL DESIGN ITEMS

DSD-1 THE FOLLOWING ITEMS SHALL BE SUBMITTED AS DELEGATED STRUCTURAL DESIGNS DURING CONSTRUCTION, IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.

A. PRECAST STRUCTURES
B. STEEL JOISTS
C. METAL BUILDINGS
D. CONVEYOR SUPPORTS
E. MONORAIL BEAMS AND CONNECTIONS TO METAL BUILDINGS
F. ANCHORAGE AND BRACING OF NONSTRUCTURAL COMPONENTS NOT SPECIFICALLY DESIGNED AND DETAILED ON THE CONTRACT DRAWINGS (INCLUDING, BUT NOT LIMITED TO, PIPE SUPPORTS AND EQUIPMENT)

DSD-2 DRAWINGS AND CALCULATIONS FOR EACH ITEM SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA.

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DESIGNED BY: G. JOHNSON
DRAWN BY: L. RICH
CHECKED BY: A. THURSTON
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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

GENERAL
STRUCTURAL NOTES - SHEET 2

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 00-S-002

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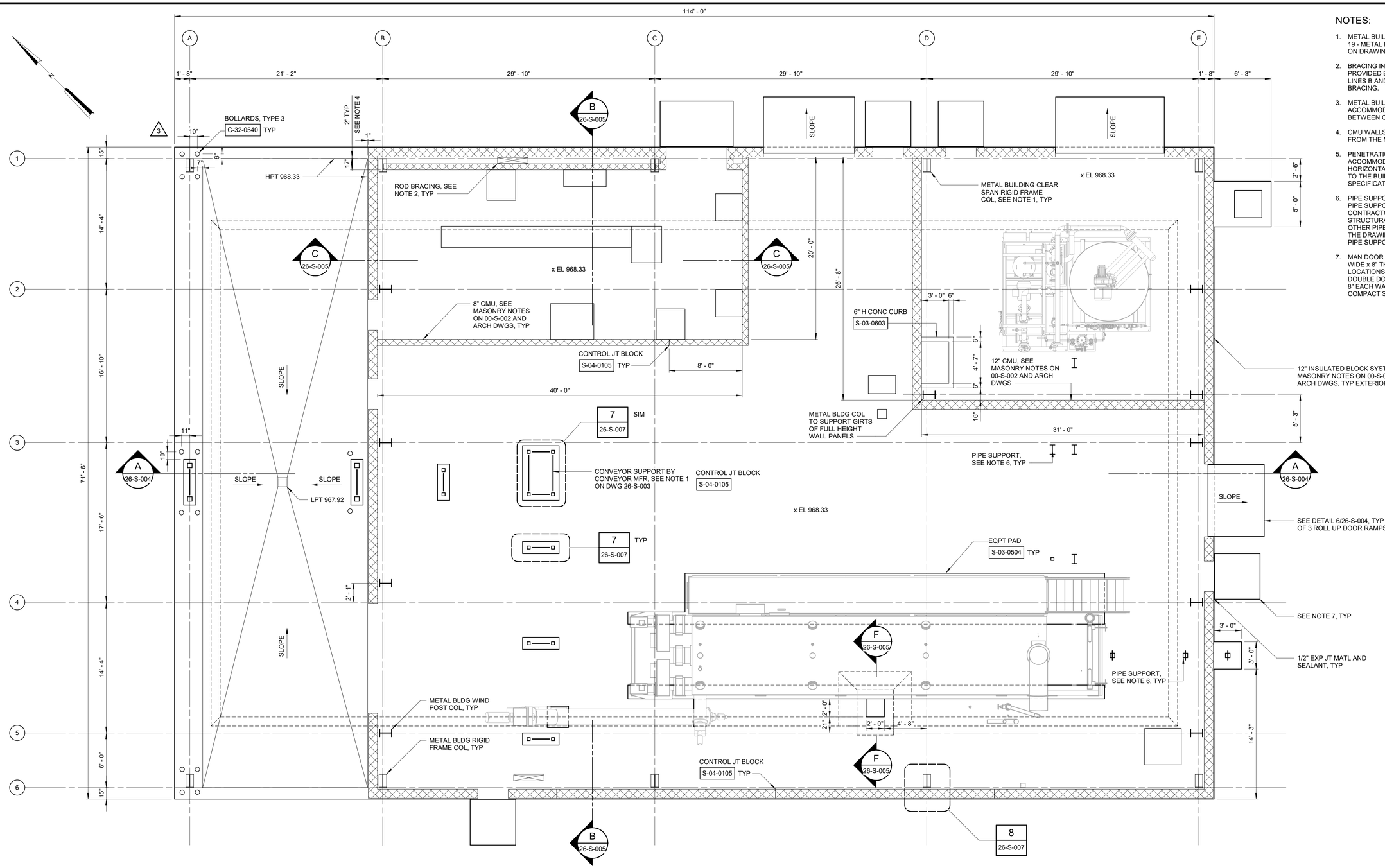
NOTES:

1. METAL BUILDING SHALL BE PER SPECIFICATION 13 34 19 - METAL BUILDINGS AND METAL BUILDING NOTES ON DRAWING 00-S-002.
2. BRACING IN THE EAST-WEST DIRECTION SHALL BE PROVIDED BY A ROD BRACING BETWEEN COLUMN LINES B AND C. ⊠ INDICATES LOCATION OF ROD BRACING.
3. METAL BUILDING SHALL BE DESIGNED TO ACCOMMODATE 1" OF DIFFERENTIAL SETTLEMENT BETWEEN COLUMN LINES 1 AND 6.
4. CMU WALLS SHALL BE HORIZONTALLY INDEPENDENT FROM THE METAL BUILDING.
5. PENETRATIONS THROUGH METAL BUILDING SHALL ACCOMMODATE THE MAXIMUM ALLOWABLE HORIZONTAL DRIFT OF THE BUILDING FRAME EQUAL TO THE BUILDING HEIGHT DIVIDED BY 100 PER SPECIFICATION 13 34 19 - METAL BUILDINGS.
6. PIPE SUPPORT LOCATION IS SHOWN FOR CERTAIN PIPE SUPPORTS WITH LOCATION CONSTRAINTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRUCTURAL DESIGN OF THESE SUPPORTS AND ALL OTHER PIPE SUPPORTS THAT ARE NOT SHOWN ON THE DRAWINGS. REFER TO SPECIFICATIONS 40 05 07 - PIPE SUPPORTS.
7. MAN DOOR LANDINGS SHALL BE 5'-0" LONG x 5'-0" WIDE x 8" THICK FOR SINGLE DOORS, TYPICAL FOUR LOCATIONS. LANDING SHALL BE 8'-0" WIDE FOR DOUBLE DOOR, ONE LOCATION. REINFORCE WITH #5@ 8" EACH WAY. SEE CIVIL DRAWINGS FOR SLOPE. COMPACT SUBGRADE PER SPECIFICATIONS.



BOTTOM PLAN

3/16" = 1'-0"

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4	CONFORMED SET	03/2026	DS
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CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
STRUCTURAL
BOTTOM PLAN

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	26-S-001

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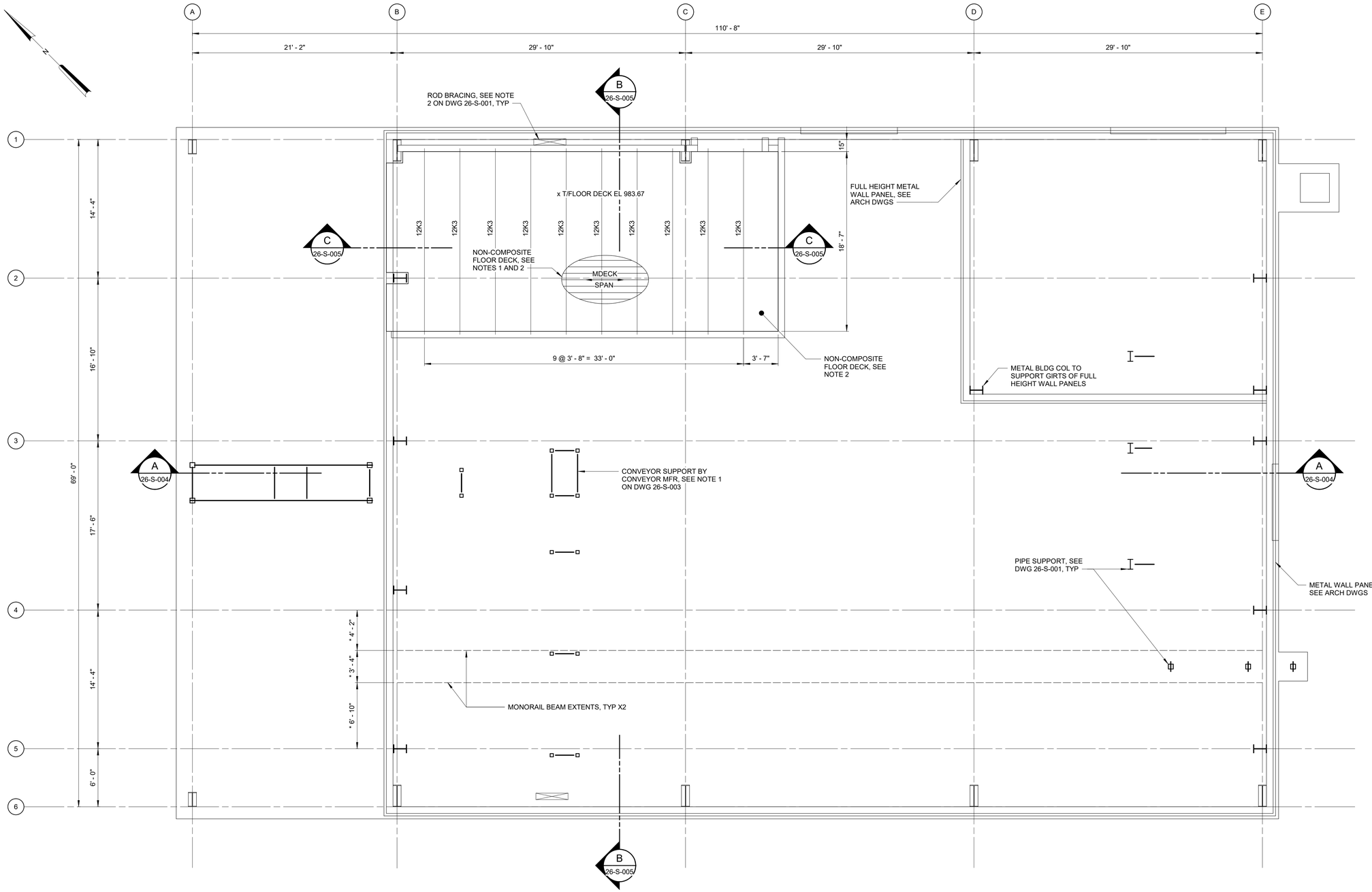

INTERMEDIATE PLAN

3/16" = 1'-0"

NOTES:

1. NON-COMPOSITE FLOOR DECK SHALL BE METAL DECK WITH A 4" CONCRETE SLAB WITH 6x6xW2.1xW2.1 WWF. SEE METAL DECKING NOTE 2.
2. METAL DECK SHALL BE 1.5B 22GA GALVANIZED METAL DECK. ATTACH TO SUPPORTS USING #12 SCREWS ON A 36/5 PATTERN. SIDELAP FASTENERS SHALL BE (4) #10 TEK SCREWS EQUALLY SPACED PER SPAN. DECKING PANELS SHALL BE ATTACHED TO STEEL BEARING OR BENT PLATES SHOWN ON DRAWINGS WITH 5/8"Ø PUDDLE WELDS AT 6 INCH CENTERS.
3. * INDICATES DIMENSIONS TO BE VERIFIED WITH APPROVED EQUIPMENT MANUFACTURER

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DRAWN BY:	L. RICH
CHECKED BY:	A. THURSTON

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FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
STRUCTURAL
INTERMEDIATE PLAN

DATE:	NOVEMBER 2025
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CCWSA No.:	2022_007
DRAWING NUMBER:	26-S-002

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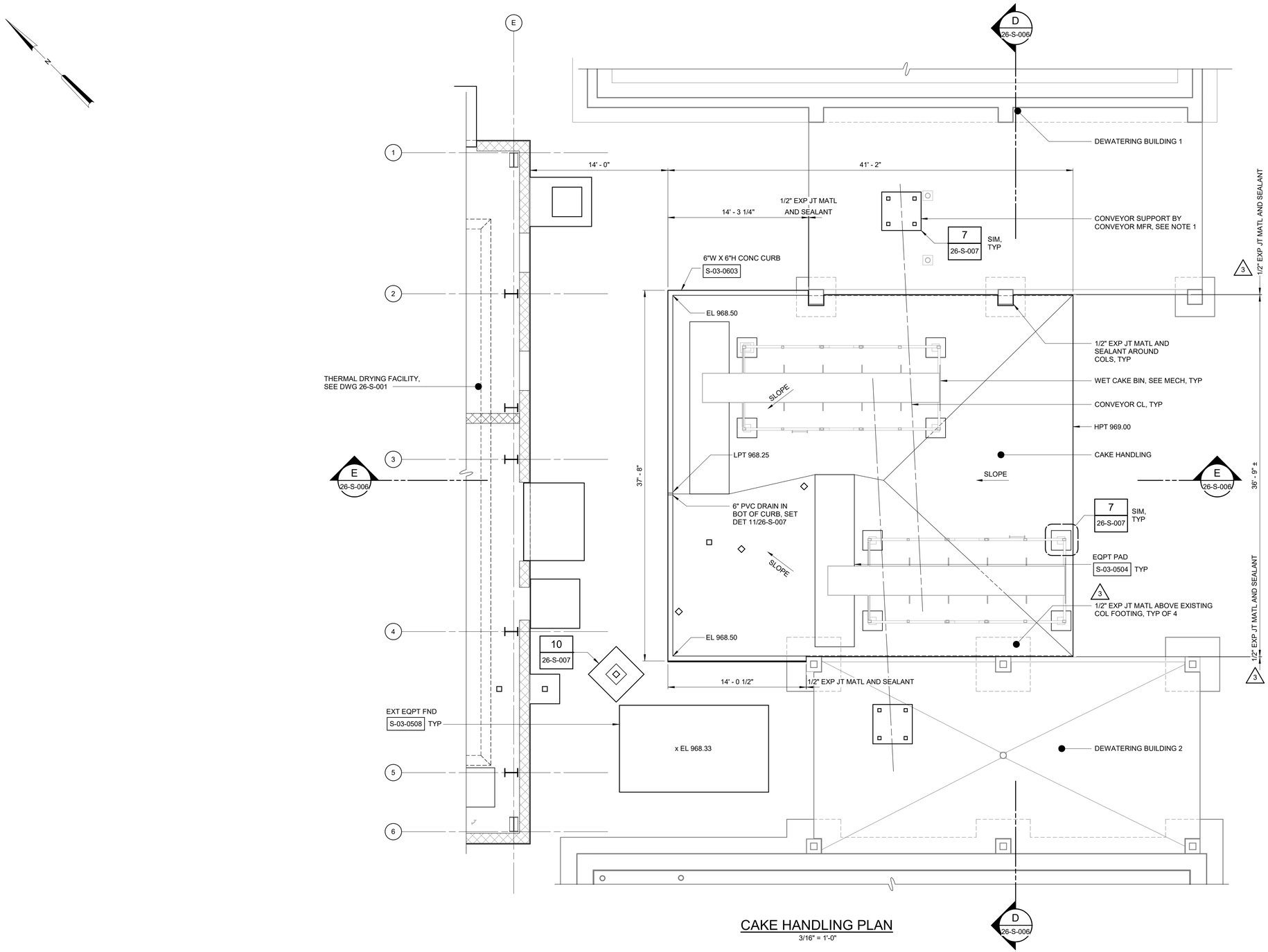

CAKE HANDLING PLAN

3/16" = 1'-0"

NOTES:

1. THE CONVEYOR SUPPORT STRUCTURES SHALL BE DESIGNED BY THE CONVEYOR MANUFACTURER PER SPECIFICATION SECTION 46 76 42 - SCREW CONVEYORS. THE STRUCTURAL SHAPES SHOWN ARE GENERIC AND DEPENDENT ON THE MANUFACTURER DESIGN. SUPPORTS SHALL BE DESIGNED FOR ALL LOADS REQUIRED BY THE GOVERNING BUILDING CODE, INCLUDING ANY OPERATIONAL LOADS. DESIGN SHALL INCLUDE ANCHORAGE INTO CONCRETE SLAB. CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS AND CALCULATIONS FOR CONVEYOR SUPPORT STRUCTURES SIGNED AND SEALED BY A PROFESSIONAL ENGINEER CURRENTLY REGISTERED IN THE STATE OF GEORGIA.

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ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

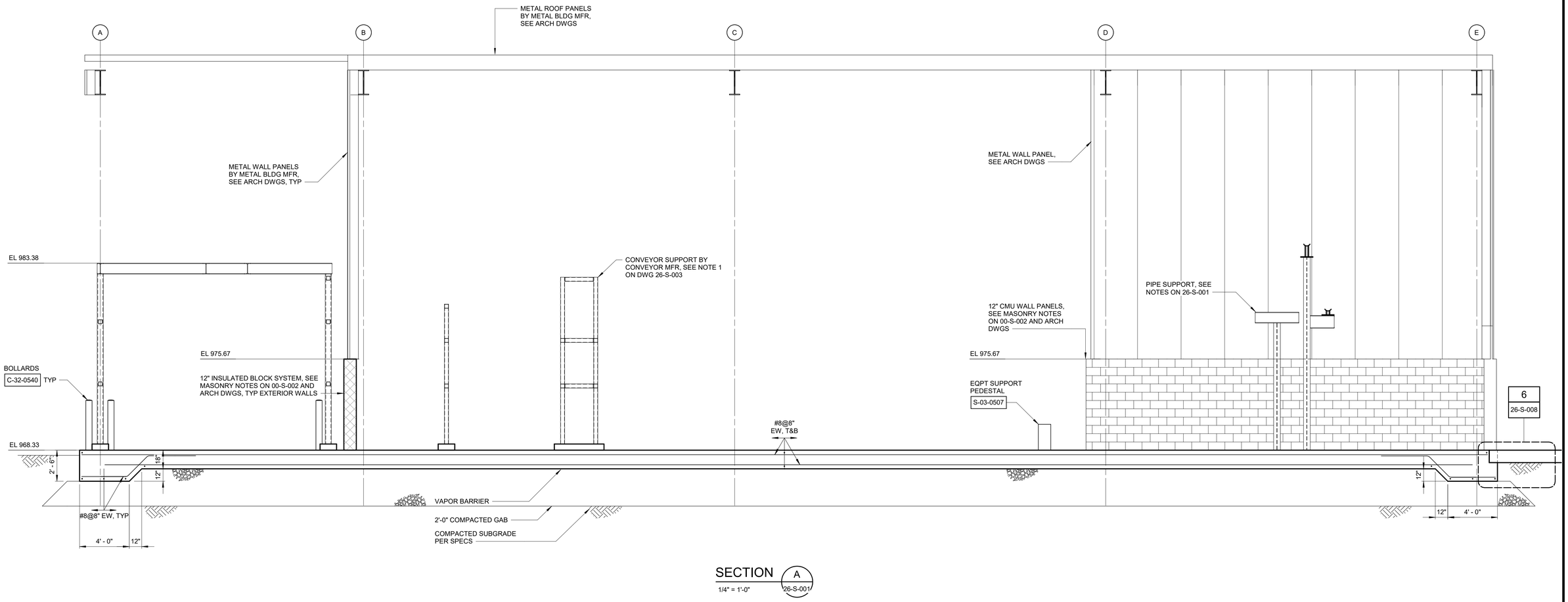
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
STRUCTURAL
CAKE HANDLING PLAN

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 26-S-003

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-S.rvt
2/26/2026 11:05:57 AM



SECTION A
1/4" = 1'-0"
26-S-001

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	G. JOHNSON
DRAWN BY:	L. RICH
CHECKED BY:	A. THURSTON

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY FREDERICK P. POWELL, S.E. No. 000116 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

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HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY STRUCTURAL SECTIONS

DATE:	NOVEMBER 2025
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CCWSA No.:	2022_007
DRAWING NUMBER:	26-S-004

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-S.rvt
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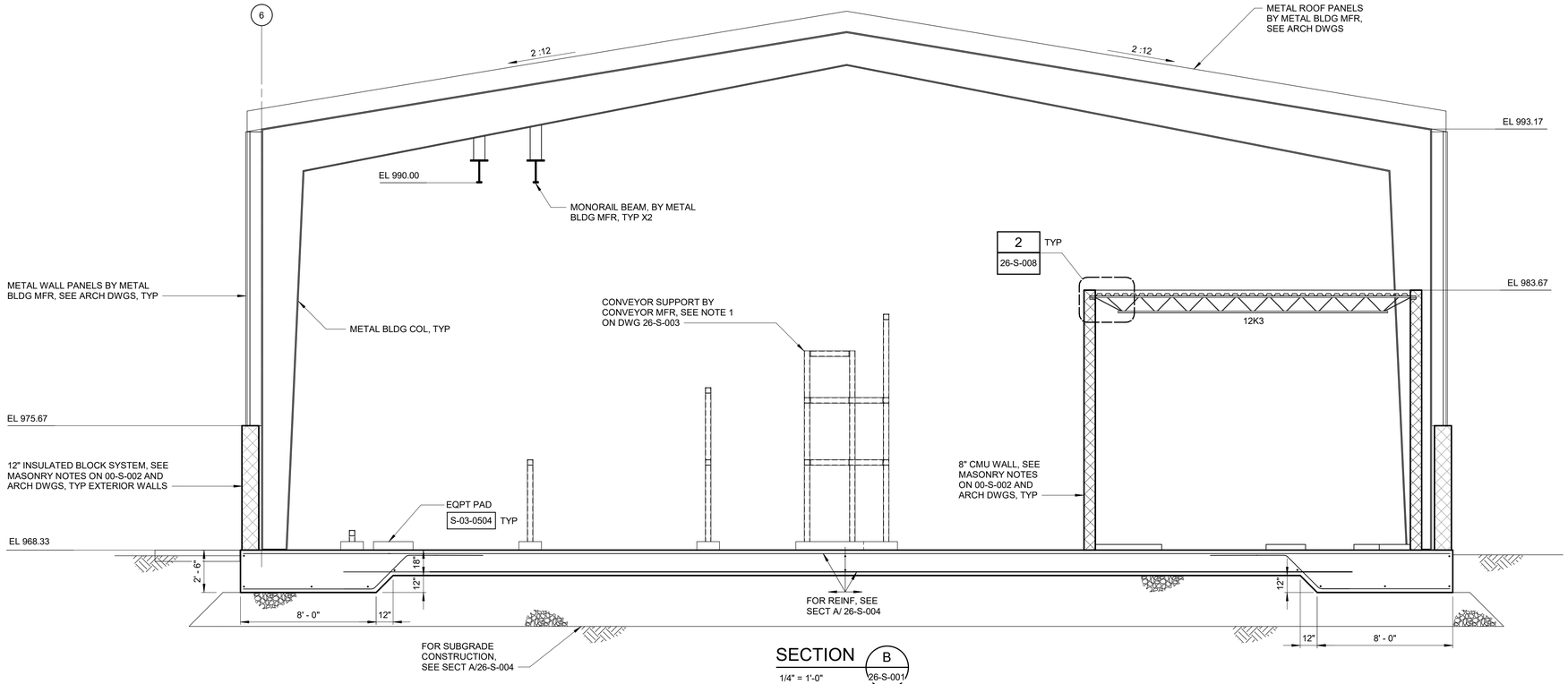

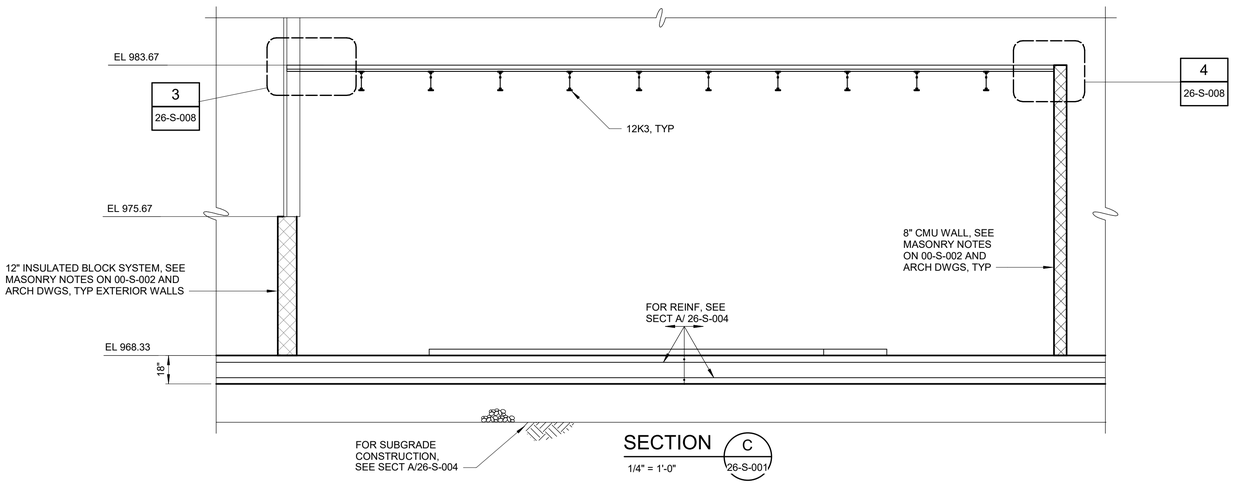

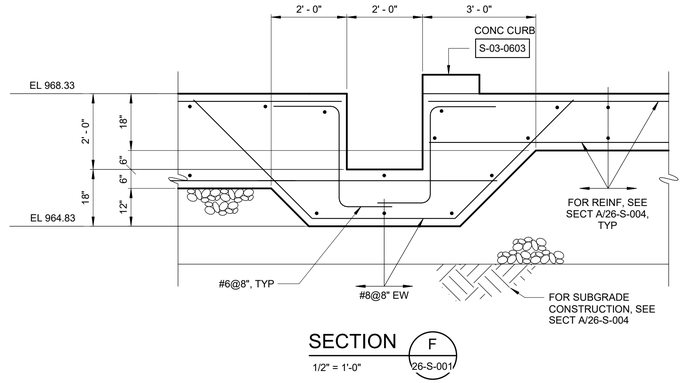

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3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	G. JOHNSON
DRAWN BY:	L. RICH
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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

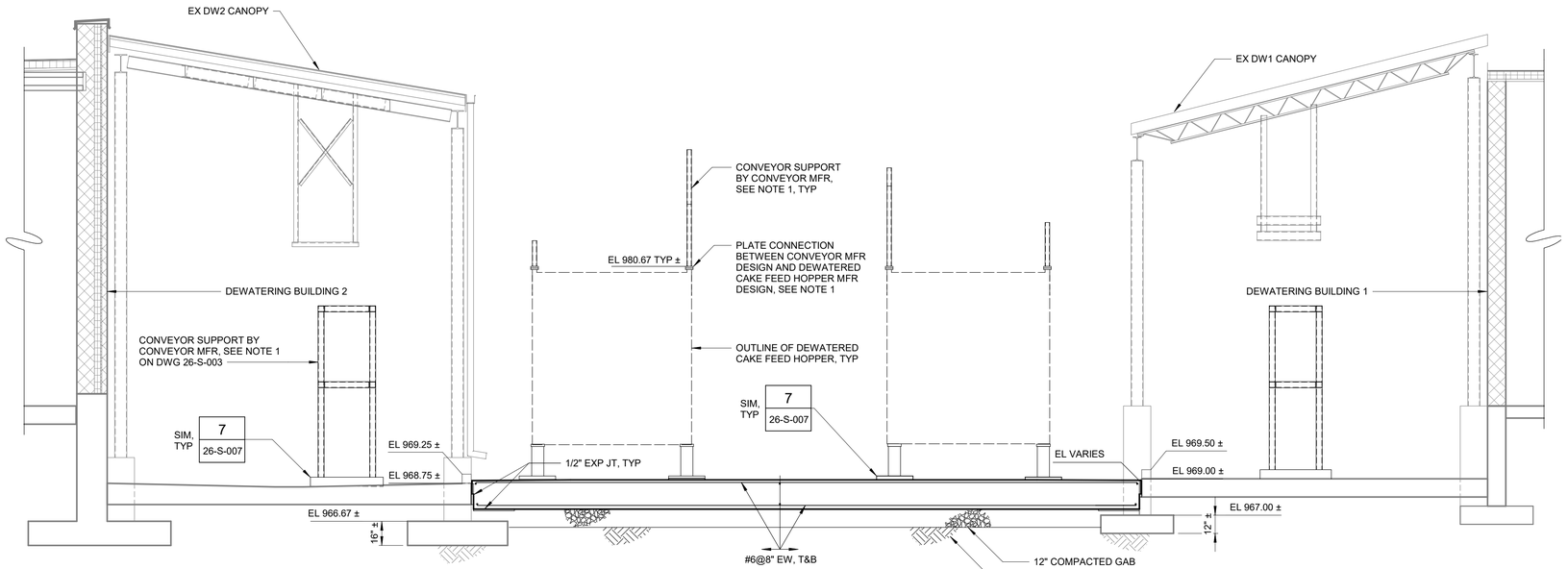
THERMAL DRYER FACILITY
STRUCTURAL
SECTIONS

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	26-S-005

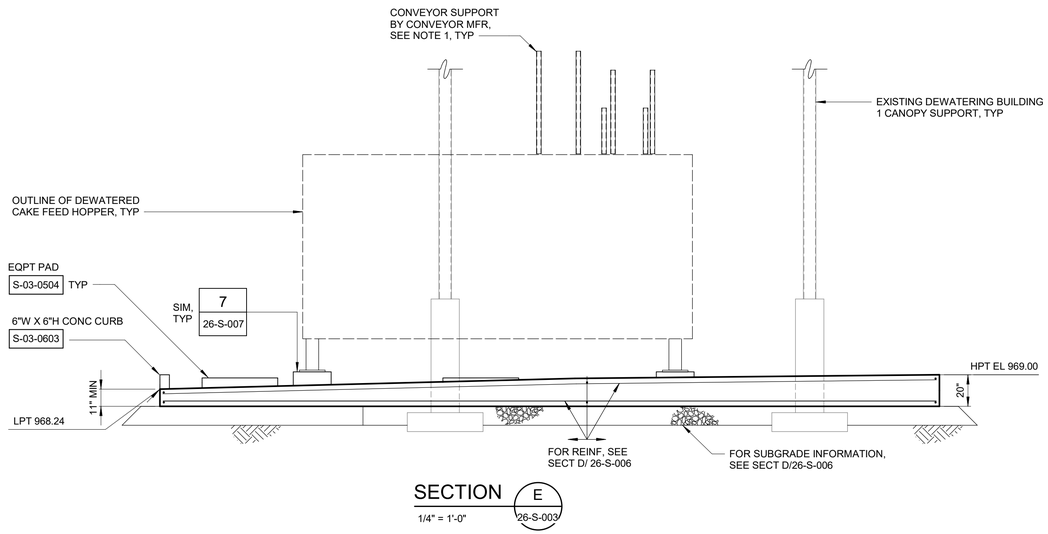
Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-S.rvt
2/26/2026 11:05:58 AM

NOTES:

1. THE CONVEYOR SUPPORT STRUCTURES SHALL BE SUPPORTED BY DEWATERED CAKE FEED HOPPER AT THE APPROXIMATE LOCATIONS SHOWN. THE CONNECTION BETWEEN THE CONVEYOR SUPPORT AND DEWATERED CAKE FEED HOPPER SHALL BE A BOLTED CONNECTION BETWEEN TWO SQUARE PLATES WITH FOUR BOLTS EACH. PLATES SHALL BE THE SAME SIZE AND A NEOPRENE PAD SHALL BE USED TO ISOLATE DISSIMILAR METALS IF NECESSARY. PLATE SIZE AND BOLT SIZE SHALL BE DETERMINED BY THE CONVEYOR MANUFACTURER. THE CONTRACTOR SHALL COORDINATE PLATE LOCATIONS, ELEVATIONS, AND REACTIONS BETWEEN THE TWO MANUFACTURERS.



SECTION D
1/4" = 1'-0"
26-S-003



SECTION E
1/4" = 1'-0"
26-S-003

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: G. JOHNSON
DRAWN BY: L. RICH
CHECKED BY: A. THURSTON
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

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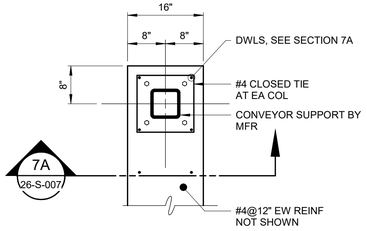
THERMAL DRYER FACILITY
STRUCTURAL
CAKE HANDLING SECTIONS

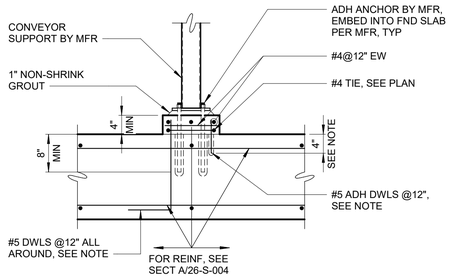
DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 26-S-006

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-S.rvt
2/26/2026 11:05:59 AM



DETAIL 7

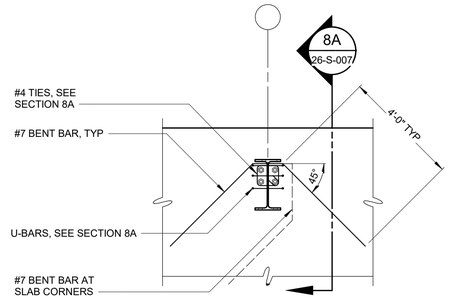
3/4" = 1'-0" | 26-S-001



NOTE: DOWELS MAY BE CAST IN WITH 90 HOOKS OR ANCHORED WITH DOWEL ADHESIVE AT CONTRACTOR'S OPTION

SECTION 7A

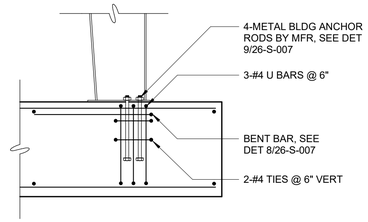
3/4" = 1'-0" | 26-S-007



NOTES:
1. THE ANCHOR ROD DESIGN IS BY THE METAL BUILDING MANUFACTURER. A FOUR ANCHOR ROD CONNECTION IS DEPICTED. IF MORE THAN FOUR ANCHORS ARE REQUIRED BY THE METAL BUILDING MANUFACTURER, ADDITIONAL U-BARS SHALL BE ADDED ACCORDINGLY.
2. THE ENGINEER SHALL CONFIRM ANCHOR ROD EMBEDMENT AND FOUNDATION REINFORCEMENT REQUIREMENTS AFTER COLUMN REACTION LOADS ARE PROVIDED AND MAKE REVISIONS IF NECESSARY. SEE METAL BUILDING NOTES ON DRAWING 00-S-02.

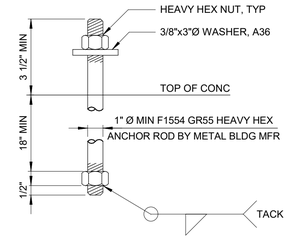
DETAIL 8

1/2" = 1'-0" | 26-S-001



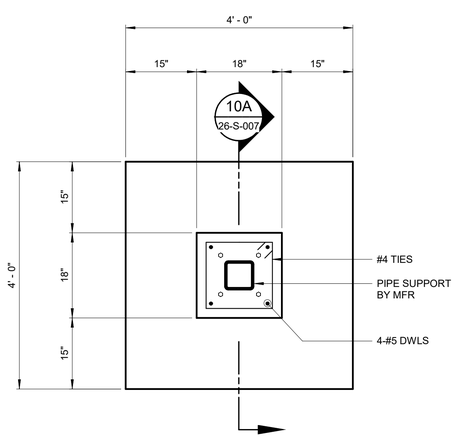
SECTION 8A

1/2" = 1'-0" | 26-S-007



DETAIL 9

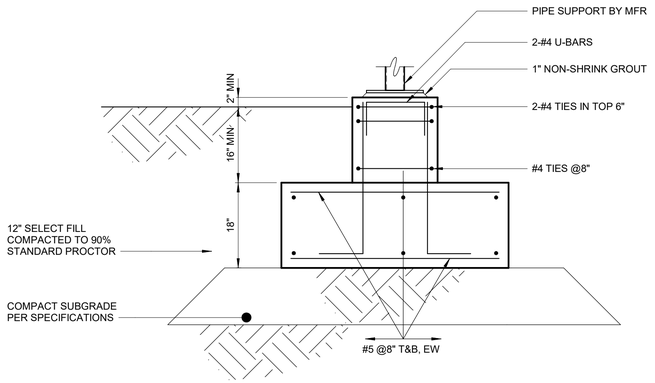
3" = 1'-0" | 26-S-007



EXTERIOR SUPPORT PAD

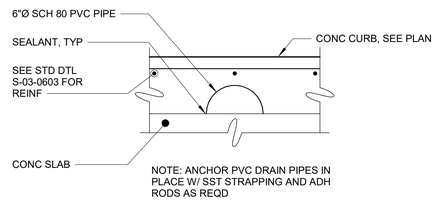
DETAIL 10

3/4" = 1'-0" | 26-S-003



SECTION 10A

3/4" = 1'-0" | 26-S-007



6" PVC HALF PIPE DRAIN

DETAIL 11

1 1/2" = 1'-0" | 26-S-003

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1	BID	10/2025	DS

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PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	G. JOHNSON
DRAWN BY:	L. RICH
CHECKED BY:	A. THURSTON

CONFORMED DRAWING

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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

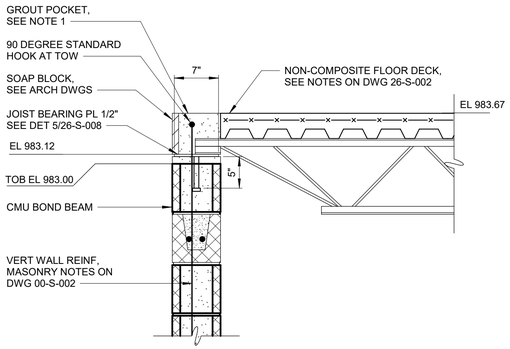
THERMAL DRYER FACILITY STRUCTURAL DETAILS

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	26-S-007

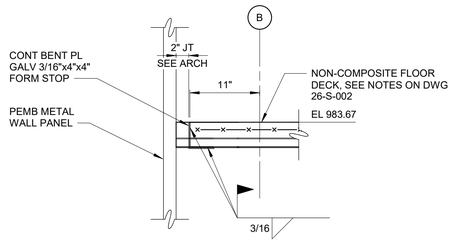
Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-S.rvt
2/26/2026 11:05:59 AM

NOTES:

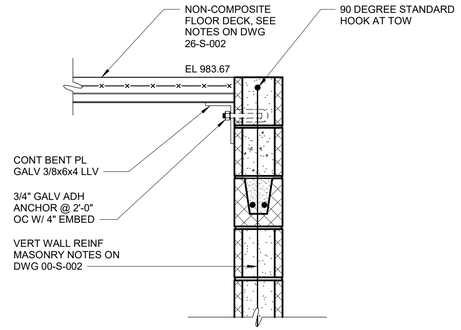
1. GROUT POCKET AT EACH BAR JOIST BEARING LOCATION SHALL BE FILLED WITH GROUT AFTER CMU AND BAR JOISTS HAVE BEEN INSTALLED AND PRIOR TO INSTALLATION OF NON-COMPOSITE DECK FLOOR.
2. THE DISTRIBUTED LOAD PROVIDED IN THE JOIST LOAD DIAGRAM IS A COMBINATION OF A SERVICE LEVEL DEAD LOAD OF 230 PLF AND A SERVICE LEVEL LIVE LOAD OF 75 PLF.



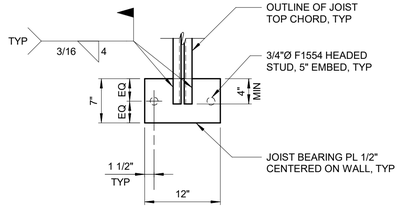
DETAIL 2
1" = 1'-0" | 26-S-005



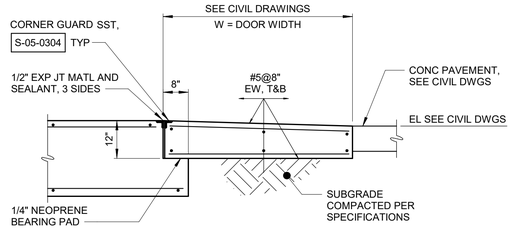
DETAIL 3
1" = 1'-0" | 26-S-005



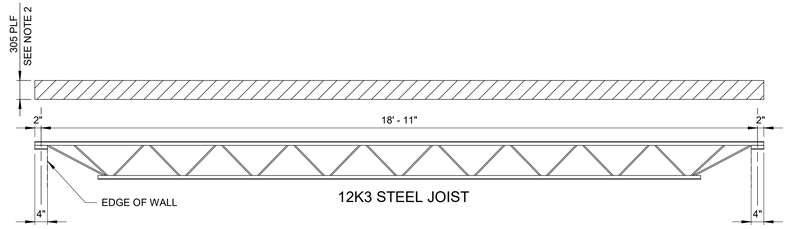
DETAIL 4
1" = 1'-0" | 26-S-005



DETAIL 5
NTS | 26-S-008



DETAIL 6
1/2" = 1'-0" | 26-S-004



JOIST LOAD DIAGRAM
1/2" = 1'-0"

REV	ISSUED FOR	DATE	BY
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1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: G. JOHNSON
DRAWN BY: L. RICH
CHECKED BY: A. THURSTON
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CONFORMED DRAWING

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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY STRUCTURAL DETAILS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 26-S-008

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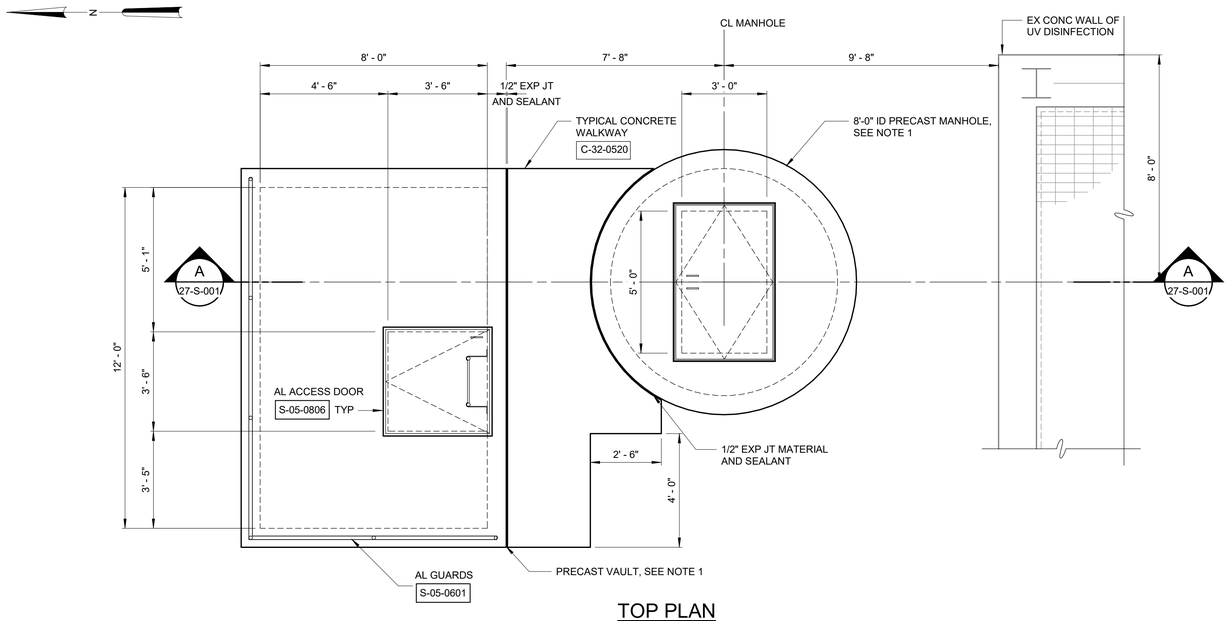
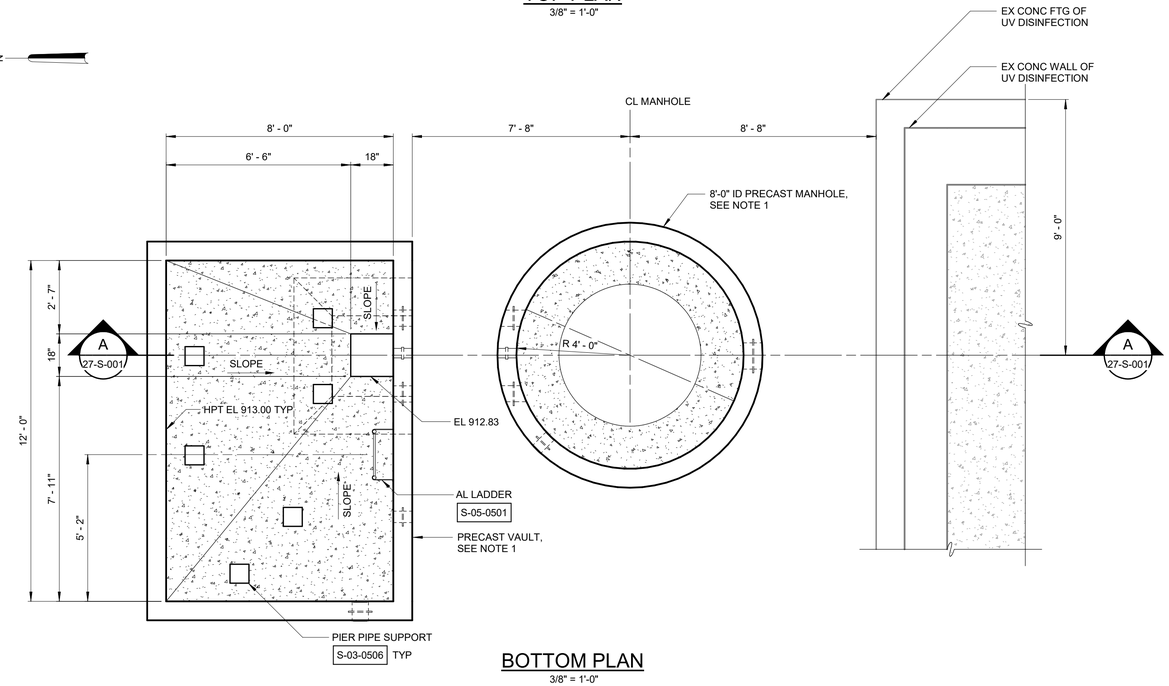
2/26/2026 11:06:00 AM



TOP PLAN

3/8" = 1'-0"

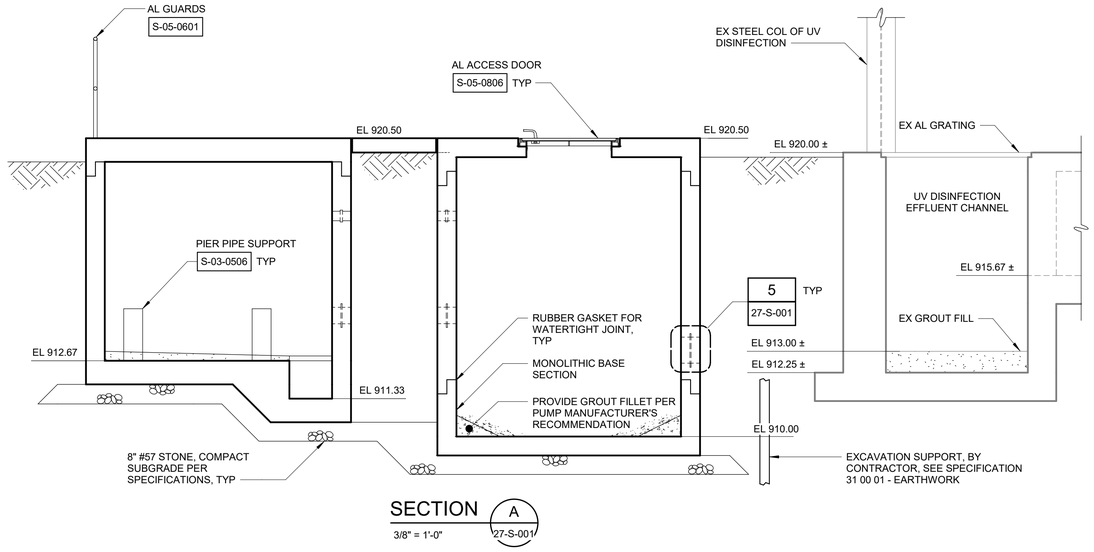


BOTTOM PLAN

3/8" = 1'-0"

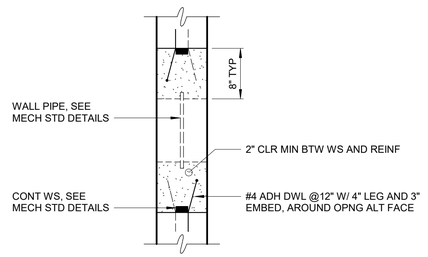
NOTES:

1. PRECAST WALL THICKNESS, SLAB THICKNESS, AND OUTSIDE DIMENSIONS SHALL BE DETERMINED BY THE PRECAST MANUFACTURER'S DESIGN PER SPECIFICATION 33 05 61 - UTILITY STRUCTURES.



SECTION A

3/8" = 1'-0" — 27-S-001



NOTE: THIS DETAIL APPLIES TO WALL PIPES AT OPENINGS FOR PIPES 4"Ø AND LARGER

DETAIL 5

1" = 1'-0" — 27-S-001

REV	ISSUED FOR	DATE	BY
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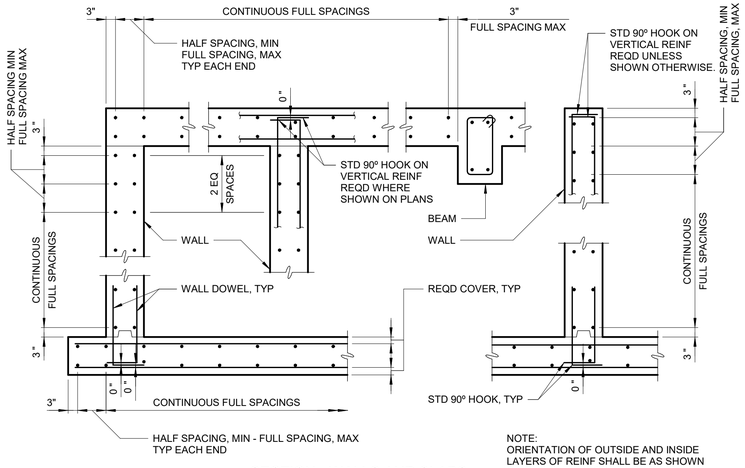
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

FINAL EFFLUENT WATER PUMP STATION STRUCTURAL PLANS AND SECTION

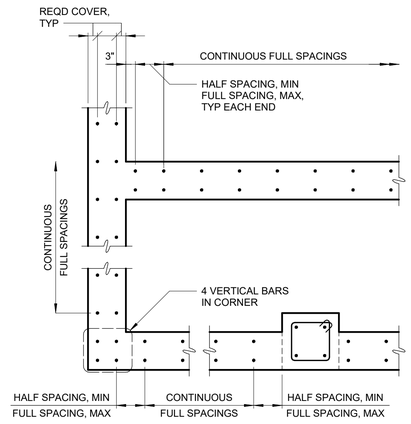
DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 27-S-001

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-27-PWPS-S.rvt
2/26/2026 11:20:26 AM



SECTION - WALLS AND SLABS

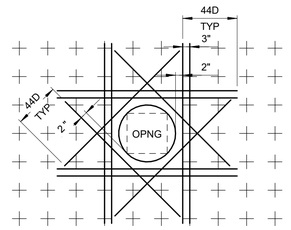
NOTE:
ORIENTATION OF OUTSIDE AND INSIDE LAYERS OF REINF SHALL BE AS SHOWN ON PLANS. "FULL SPACING" IS BAR SPACING CALLED OUT ON PLANS.



PLAN - WALLS

BAR PLACEMENT

S-03-0110



NOTES:

1. THIS DETAIL APPLIES FOR OPENINGS 8"∅ AND LARGER. FOR SMALLER OPENINGS, BEND BARS OR ADJUST SPACING OF REINFORCEMENT TO AVOID OPENING.
2. PLACE EXTRA BARS OF THE SAME SIZE AS THE INTERRUPTED BARS AT EACH SIDE OF OPENING. QUANTITY OF EXTRA BARS AT EACH SIDE SHALL EQUAL HALF THE QUANTITY OF INTERRUPTED BARS EXCEPT WHERE NOTED OTHERWISE.
3. PROVIDE ONE DIAGONAL BAR EACH SIDE OF OPENING WITH SIZE EQUAL TO MAIN REINFORCEMENT, TYPICAL EACH FACE.
4. WHERE INVERT OF OPENING IN WALL IS LESS THAN 44 BAR DIAMETERS FROM TOP OF SLAB, EXTRA REINFORCEMENT ON EACH SIDE SHALL INCLUDE DOWELS EMBEDDED INTO SLAB WITH STANDARD 90 DEGREE HOOKS TO SPLICE WITH EXTRA VERTICAL REINFORCEMENT. DOWELS SHALL ALSO STILL BE PROVIDED BELOW OPENING.
5. WHERE INVERT OF OPENING IN WALL OR SLAB IS CLOSER THAN 44 BAR DIAMETERS TO EDGE OF SLAB OR BOTTOM OF WALL, EXTRA DIAGONAL BARS MAY BE TERMINATED TWO INCHES FROM EDGE OF SLAB OR BOTTOM OF WALL. DOWELS DO NOT HAVE TO BE PROVIDED TO SPLICE WITH DIAGONAL BARS.

REINFORCING AT OPENINGS

S-03-0109

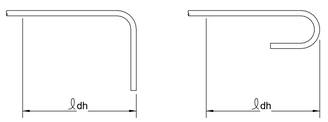
DEVELOPMENT LENGTH OF STANDARD HOOKS

FOR UNCOATED BARS IN TENSION

fy = 60,000 psi fc' = 4000 psi OR GREATER

BAR SIZE	DEVELOPMENT LENGTH, ℓdh	
	BASIC	W/ CONC COVER *
#3	8"	6"
#4	10"	7"
#5	1'-0"	9"
#6	1'-3"	11"
#7	1'-5"	1'-0"
#8	1'-7"	1'-2"
#9	1'-10"	1'-4"
#10	2'-1"	1'-6"
#11	2'-3"	1'-7"

* SIDE COVER NORMAL TO PLANE OF HOOK AT LEAST 2 1/2"; AND FOR 90° HOOK, END COVER BEYOND OUTSIDE END OF HOOK AT LEAST 2".



BASIC DEVELOPMENT LENGTH AND SPLICE LENGTH

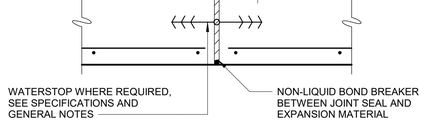
FOR UNCOATED BARS IN TENSION

** BASED ON MATERIALS AND CONDITIONS AS FOLLOWS:
fy = 60,000 psi
CLEAR COVER≥ 1.5 INCHES
fc' = 4000 psi OR GREATER
NORMAL WEIGHT CONCRETE

BASIC DEVELOPMENT LENGTH ℓd				BAR SIZE	CLASS B SPLICE LENGTH 1.3 x ℓd			
CLEAR SPACING≥ 3"		CLEAR SPACING <3"			CLEAR SPACING≥ 3"		CLEAR SPACING <3"	
BASIC	TOP *	BASIC	TOP *		BASIC	TOP *	BASIC	TOP *
1'-0"	1'-0"	1'-0"	1'-4"	# 3	1'-0"	1'-3"	1'-4"	1'-8"
1'-0"	1'-3"	1'-7"	2'-1"	# 4	1'-3"	1'-8"	2'-1"	2'-9"
1'-3"	1'-7"	2'-4"	3'-0"	# 5	1'-7"	2'-0"	3'-0"	3'-11"
1'-6"	1'-11"	3'-1"	4'-0"	# 6	1'-11"	2'-5"	4'-0"	5'-2"
2'-5"	3'-1"	4'-11"	6'-4"	# 7	3'-1"	4'-0"	6'-4"	8'-3"
3'-0"	3'-11"	6'-0"	7'-9"	# 8	3'-11"	5'-1"	7'-9"	10'-1"
3'-8"	4'-9"	6'-9"	8'-9"	# 9	4'-9"	6'-3"	8'-9"	11'-4"
4'-6"	5'-10"	7'-7"	9'-10"	# 10	5'-10"	7'-7"	9'-10"	12'-9"
5'-5"	7'-0"	8'-5"	10'-11"	# 11	7'-0"	9'-1"	10'-11"	14'-2"

* TOP REINFORCEMENT IS ANY HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.

** FOR MATERIALS OR CONDITIONS DIFFERENT FROM THOSE STATED, LENGTHS SHOWN IN CHART SHALL BE MODIFIED TO CONFORM TO THE PROVISIONS OF ACI 318-14, SECTION 25.3.

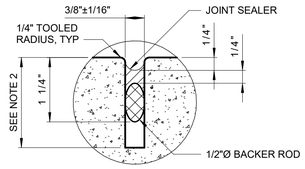


EXPANSION JOINT

S-03-0201

NOTES:

1. VERTICAL JOINTS SHALL BE FORMED BY AN APPROVED JOINT INSERT. HORIZONTAL JOINTS SHALL BE FORMED BY AN APPROVED JOINT INSERT OR SAWCUTTING PERFORMED PER SPECIFICATION.
2. DEPTH SHALL BE 1 1/2" IN REINF CONCRETE DEPTH SHALL BE 1/3 OF CONCRETE THICKNESS IN UNREINFORCED CONCRETE PAVEMENT.



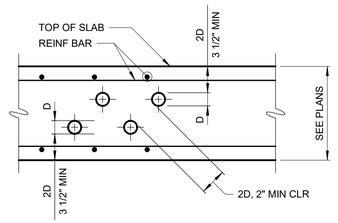
SEALED JOINT

S-03-0202

NOTE:
THIS DETAIL APPLIES TO CONSTRUCTION JOINT IN SLABS AND VERTICAL CONSTRUCTION JOINTS IN WALLS. FOR HORIZONTAL CONSTRUCTION JOINTS IN WALLS, SEE S-03-0204.

CONSTRUCTION JOINT

S-03-0203



NOTE:
D DENOTES PIPE OR CONDUIT OD.

PIPE OR CONDUIT EMBEDDED IN SLAB

S-03-0403

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: G. JOHNSON
DRAWN BY: L. RICH
CHECKED BY: A. THURSTON

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY FREDERICK P. POWELL, S.E. No. 000116 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

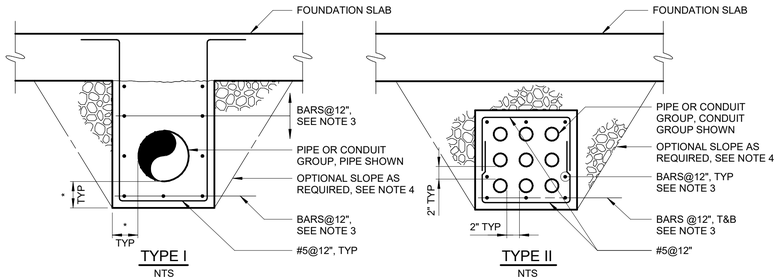
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

STRUCTURAL STANDARD DETAILS
SHEET 1

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 99-SD-001

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-General-Struc.rvt
2/26/2026 11:27:59 AM

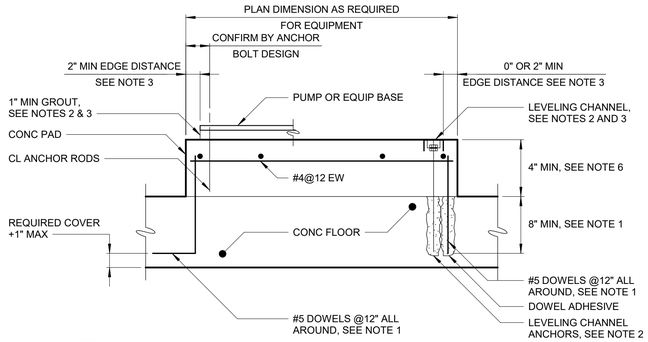


NOTES:
1. TYPE I ENCASEMENT SHALL BE USED AT STRUCTURES WITH A PILE SUPPORTED FOUNDATION SLAB, UNLESS NOTED OTHERWISE.
2. * DENOTES 9" FOR PIPE DIAMETER OR LARGEST DIMENSION OF CONDUIT GROUP LESS THAN 42", 12" FOR PIPE DIAMETER OR LARGEST DIMENSION OF CONDUIT GROUP 42" TO 72" AND 18" FOR PIPE DIAMETER OR LARGEST DIMENSION OF CONDUIT GROUP GREATER THAN 84".
3. FOR 9" ENCASEMENTS USE #5 BARS, FOR 12" ENCASEMENTS USE #6 BARS AND FOR 18" ENCASEMENTS USE #7 BARS.
4. TYPE I ENCASEMENT USED AT STRUCTURES WITH A PILE SUPPORTED FOUNDATION SLAB SHALL HAVE FORMED VERTICAL SIDES AND SHALL BE PLACED PRIOR TO THE FOUNDATION SLAB. FOR STRUCTURES WITHOUT A PILE SUPPORTED FOUNDATION SLAB, TYPE I AND II ENCASEMENTS MAY BE USED AND MAY BE PLACED IN OPEN CUT TRENCHES, AT CONTRACTOR'S OPTION.
5. ENCASEMENT PLACED MONOLITHICALLY WITH FOUNDATION SLAB SHALL BE SAME CONCRETE CLASS AS FOUNDATION SLAB; OTHERWISE CONCRETE ENCASEMENT MAY BE CLASS A OR B, AT CONTRACTOR'S OPTION.

ALL PIPING AND CONDUITS BELOW STRUCTURES TO BE ENCASED BY GENERAL CONTRACTOR UNLESS NOTED OTHERWISE.

PIPE OR CONDUIT ENCASEMENTS BELOW STRUCTURES

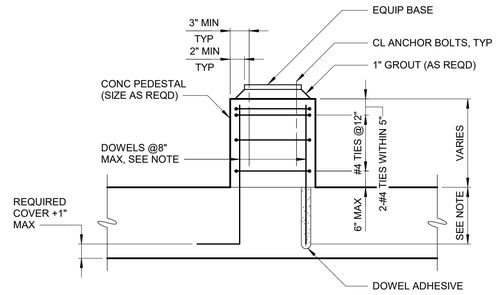
S-03-0404



NOTES:
1. DOWELS MAY BE CAST IN WITH 90° HOOK OR ANCHORED WITH DOWEL ADHESIVE AT CONTRACTORS OPTION. WHERE FLOOR IS LESS THAN 10" THICK, USE #4 DOWELS EMBEDDED TO WITHIN 2" OF BOTTOM OF FLOOR SLAB.
2. THE CONTRACTOR SHALL PROVIDE LEVELING CHANNELS AND LEVELING CHANNEL ANCHORS FOR SWITCHGEAR, SWITCHBOARDS, MOTOR CONTROL CENTERS, AND SIMILAR EQUIPMENT WHEN REQUIRED TO MEET EQUIPMENT MANUFACTURER'S LEVELING TOLERANCES. THE CONTRACTOR SHALL PROVIDE 1" MINIMUM GROUT FOR PUMPS AND SIMILAR EQUIPMENT WHEN REQUIRED TO MEET EQUIPMENT MANUFACTURER'S UNIFORM BEARING AND LEVELING REQUIREMENTS. GROUT BELOW BASE PLATE SHALL BE AS STIPULATED IN SPECIFICATION 03 60 00, UNLESS OTHERWISE RECOMMENDED BY MANUFACTURER OF EQUIPMENT.
3. PRIOR TO PLACING CONCRETE PAD, LEVELING CHANNEL SIZE AND MEANS OF INSTALLATION, ANCHORAGE, GROUT, CONCRETE EDGE DISTANCE, AND CONCRETE BLOCKOUTS REQUIREMENTS SHALL BE COORDINATED WITH EQUIPMENT MANUFACTURER.
4. COAT DISSIMILAR MATERIALS PER THE CONTRACT DOCUMENTS.
5. STAGGER CHANNEL ANCHORS AND PAD DOWELS.
6. FOR PADS 24" OR GREATER IN DEPTH, PROVIDE #4@8" HORIZONTAL SKIN REINFORCING AROUND PERIMETER OF PAD.

EQUIPMENT PAD

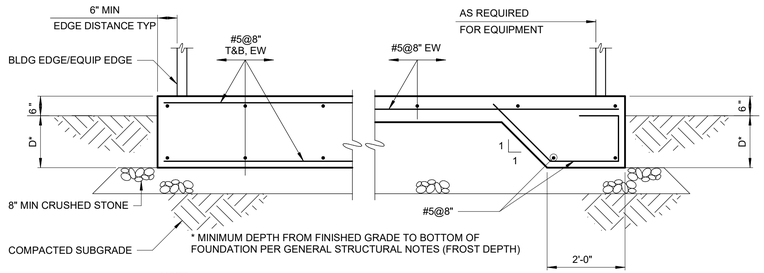
S-03-0504



NOTE:
TOTAL AREA OF DOWELS SHALL NOT BE LESS THAN ONE PERCENT OF THE TOTAL PLAN AREA OF THE PEDESTAL, EQUALLY SPACED AROUND ALL 4 SIDES OF PEDESTAL. DOWELS MAY BE CAST IN WITH 90° HOOK OR ANCHORED WITH DOWEL ADHESIVE AT CONTRACTORS OPTION. WHERE FLOOR IS LESS THAN 10" THICK, USE #4 DOWELS EMBEDDED TO WITHIN 2" OF BOTTOM OF FLOOR SLAB.

EQUIPMENT SUPPORT PEDESTAL

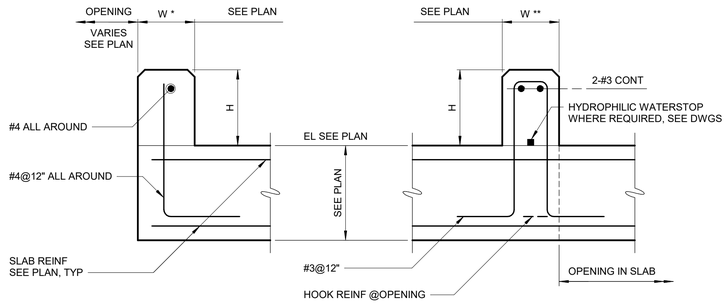
S-03-0507



NOTE:
UNLESS NOTED OTHERWISE, CONTRACTOR SHALL HAVE THE OPTION OF PLACING EQUIPMENT FOUNDATION WITH A CONSTANT THICKNESS OF D + 6" OR AS AN 8" SLAB WITH THICKENED EDGE AROUND THE FOUNDATION PERIMETER.

EXTERIOR EQUIPMENT FOUNDATION

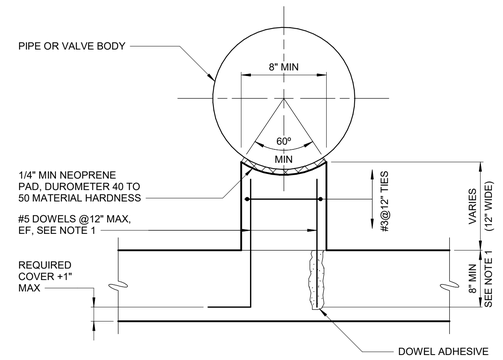
S-03-0508



NOTE:
W* DENOTES CURBS LESS THAN 8"
W** DENOTES CURBS EQUAL TO OR GREATER THAN 8" DOWELS MAY BE CAST IN OR ANCHORED WITH D0WEL ADHESIVE SYSTEM WITH A 6" MINIMUM EMBEDMENT. WHERE FLOOR IS 8" THICK OR LESS, USE DOWELS EMBEDDED TO WITHIN 2" OF BOTTOM OF FLOOR SLAB.

CONCRETE CURB

S-03-0603



NOTES:
1. DOWELS MAY BE CAST IN WITH 90° HOOK OR ANCHORED WITH DOWEL ADHESIVE AT CONTRACTORS OPTION. WHERE FLOOR IS LESS THAN 10" THICK, USE #4 DOWELS EMBEDDED TO WITHIN 2" OF BOTTOM OF FLOOR SLAB.
2. PIER SHALL BE MINIMUM 12" THICK EACH WAY HORIZONTALLY, AND SHALL BE SQUARE UNDER LARGE VALVE BODIES SUCH AS CHECK VALVES.

PIER
PIPE SUPPORT

S-03-0506

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: G. JOHNSON
DRAWN BY: L. RICH
CHECKED BY: A. THURSTON
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

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HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
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GBPE LIC #: PEF003685 EXP: 6/30/2026

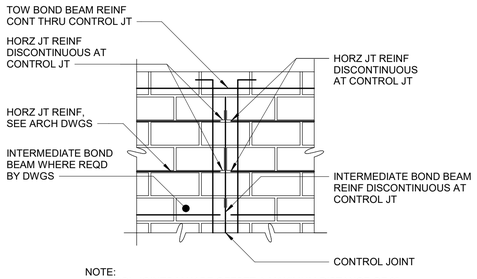
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

STRUCTURAL STANDARD DETAILS
SHEET 2

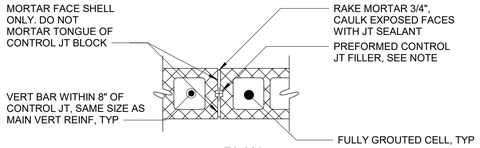
DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 99-SD-002

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-General-Struc.rvt
2/26/2026 11:27:58 AM



NOTE:
CONTROL JOINTS MAY BE OFFSET A MAXIMUM DISTANCE OF 8".
HORIZONTAL JOINT REINFORCING WITHIN THIS OFFSET SHALL BE CUT.

ELEVATION



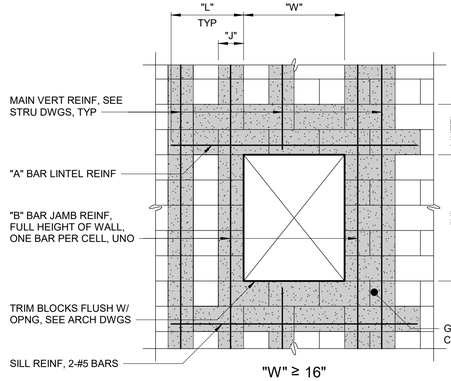
PLAN

NOTE:
WIDE FLANGED PREFORMED
CONTROL JOINT FILLER MAY BE USED.

CONTROL JOINT BLOCK

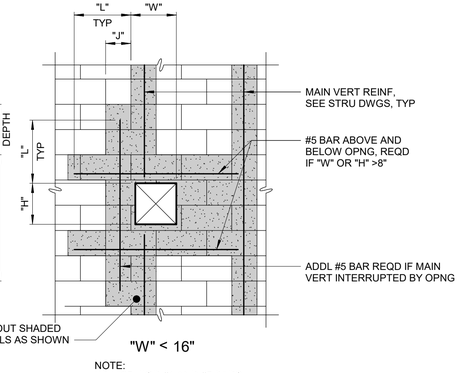
S-04-0105

CMU OPENING REINFORCEMENT SCHEDULE					
"W" OPNG WIDTH	LINTEL DEPTH	LINTEL STIRRUP	"A" BAR LINTEL	"B" BAR JAMB	"J" MIN JAMB WIDTH
UP TO 2'-8"	8"	-	#5 BAR	1-#5 BAR EA JAMB	8"
>2'-8" <= 4'-0"	8"	-	2-#5 BARS	1-#5 BAR EA JAMB	8"
>4'-0" <= 6'-0"	16"	#3@8"	2-#5 BARS	2-#5 BAR EA JAMB	16"
>6'-0" <= 8'-0"	24"	#3@8"	2-#5 BARS	2-#5 BAR EA JAMB	16"
>8'-0"	SEE DRAWINGS			3-#5 BAR EA JAMB	24"



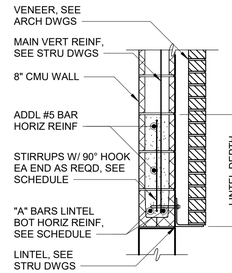
"W" ≥ 16"

NOTE:
"L" = 25" FOR #4 AND #5 BARS
"L" = 30 INCHES FOR #6 BARS

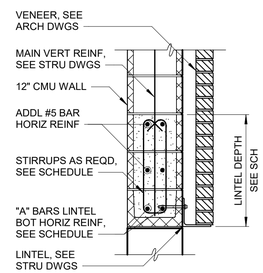


"W" < 16"

NOTE:
"L" = 25" FOR #4 AND #5 BARS
"L" = 30 INCHES FOR #6 BARS



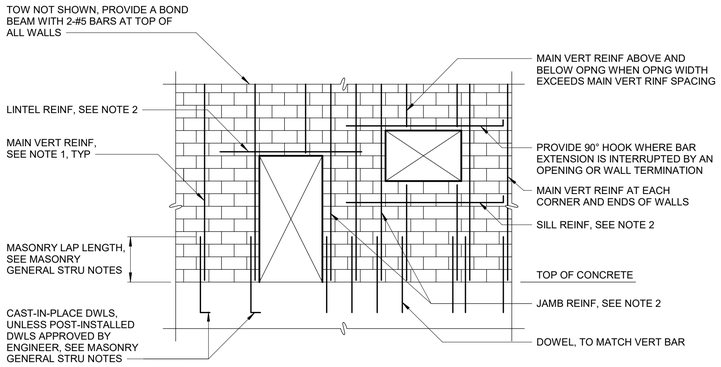
8" LINTEL SECTION



12" LINTEL SECTION

TYPICAL MASONRY OPENINGS

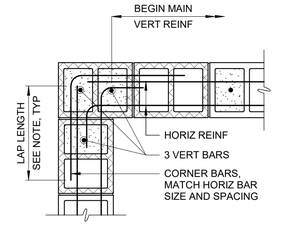
S-04-0202



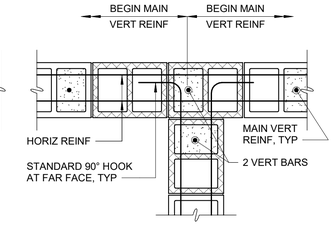
NOTES:
1. FOR MAIN VERTICAL REINFORCING, SEE STRUCTURAL DRAWINGS. PROVIDE 90 DEGREE HOOK AT TOP OF WALL UNLESS NOTED OTHERWISE.
2. FOR LINTEL AND REINFORCING AT OPENINGS, SEE DETAIL S-04-0202.
3. JOINT REINFORCING NOT SHOWN FOR CLARITY. SEE ARCHITECTURAL DRAWINGS.

TYPICAL MASONRY REINFORCING ELEVATION

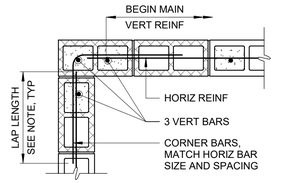
S-04-0201



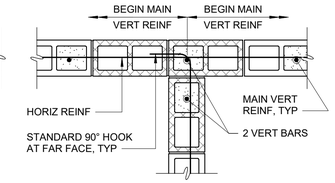
DOUBLE MAT
EXTERIOR CORNER PLAN



DOUBLE MAT
INTERIOR CORNER PLAN



SINGLE MAT
EXTERIOR CORNER PLAN



SINGLE MAT
INTERIOR CORNER PLAN

NOTES:
1. SEE MASONRY GENERAL STRUCTURAL NOTES FOR LAP SPLICE LENGTH REQUIREMENTS.
2. DETAIL APPLIES TO BOND BEAM HORIZONTAL REINFORCING.

TYPICAL MASONRY WALL INTERSECTION REINFORCING

S-04-0203

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: G. JOHNSON
DRAWN BY: L. RICH
CHECKED BY: A. THURSTON
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CONFORMED DRAWING

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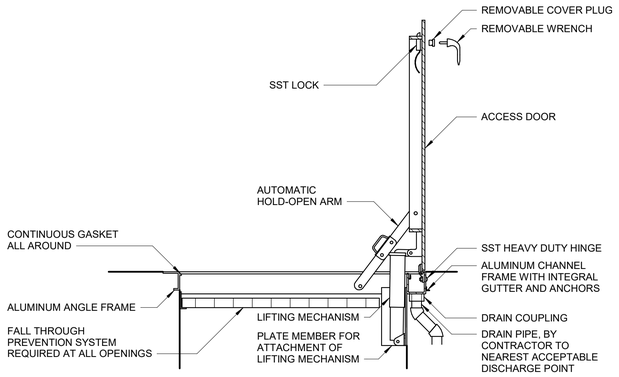
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

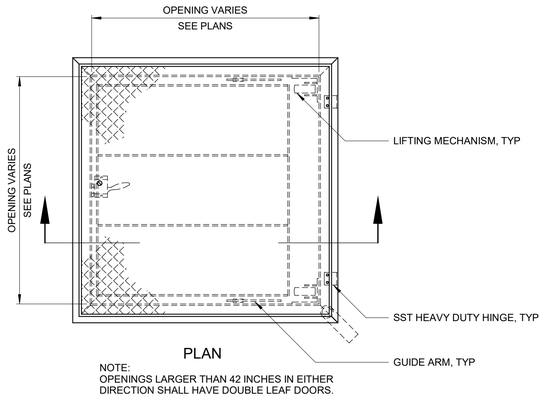
STRUCTURAL STANDARD DETAILS
SHEET 3

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 99-SD-003

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-General-Struc.rvt
2/26/2026 11:27:58 AM



ANGLE FRAME SECTION CHANNEL FRAME/WATERTIGHT

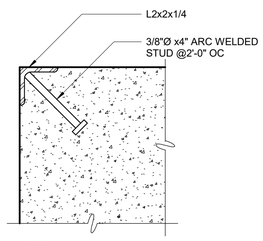


PLAN

NOTE:
OPENINGS LARGER THAN 42 INCHES IN EITHER DIRECTION SHALL HAVE DOUBLE LEAF DOORS.

AL ACCESS DOOR

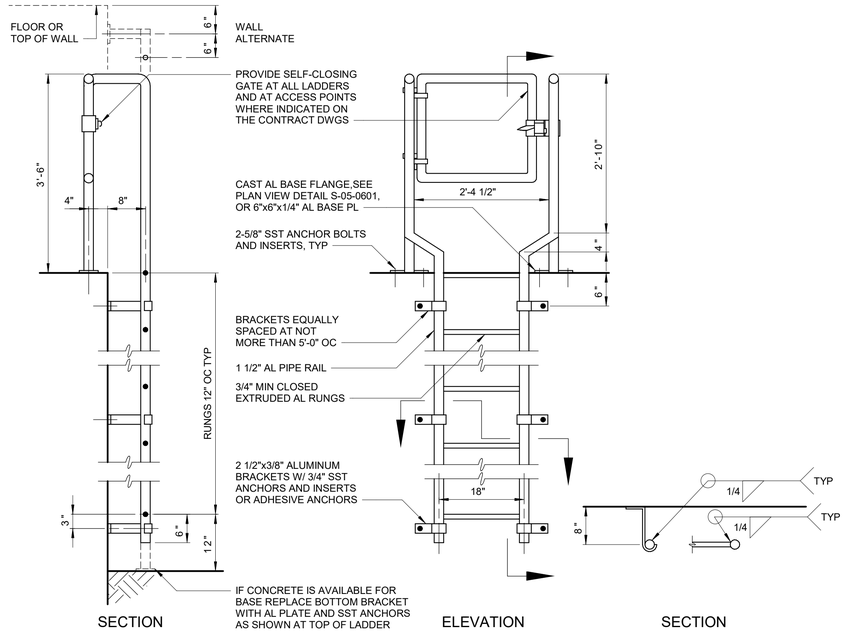
S-05-0806



NOTE:
CORNER GUARD REQUIRED ONLY WHERE SHOWN ON PLANS

CORNER GUARD

S-05-0304

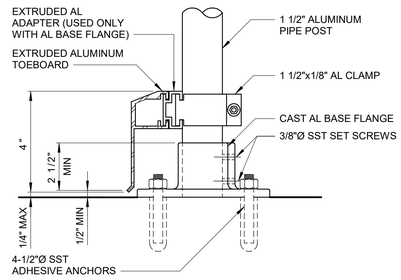


SECTION ELEVATION SECTION

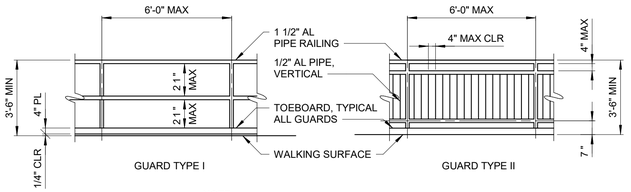
NOTE:
SEE SPECIFICATION SECTION 05 51 33 FOR SAFETY LADDER SYSTEM AND RETRACTABLE SAFETY EXTENSION REQUIREMENTS.

ALUMINUM LADDER

S-05-0501

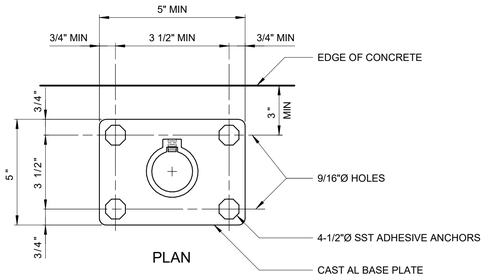


SURFACE MOUNTED TO CONCRETE



NOTE:
UNLESS SHOWN OTHERWISE ON THE CONTRACT DRAWING, GUARDS SHALL BE TYPE I.

ELEVATION



PLAN

NOTE:
DESIGN OF GUARDS AND HANDRAIL SYSTEMS IS EXCLUSIVELY THE RESPONSIBILITY OF THE CONTRACTOR. DETAILS SHOWN ARE MINIMUM REQUIREMENTS FOR MEMBERS AND CONNECTIONS. CONTRACTOR SHALL PROVIDE AND SUBMIT DRAWINGS AND STRUCTURAL CALCULATIONS, BOTH SEALED BY A PROFESSIONAL ENGINEER CURRENTLY REGISTERED IN THE STATE OR COMMONWEALTH WHERE THE PROJECT IS LOCATED.

ALUMINUM GUARDS AND HANDRAILS

S-05-0601

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	G. JOHNSON
DRAWN BY:	L. RICH
CHECKED BY:	A. THURSTON

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY FREDERICK P. POWELL, S.E. No. 000116 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

STRUCTURAL STANDARD DETAILS
SHEET 4

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	99-SD-004

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-General-Struc.rvt
2/26/2026 11:27:58 AM

ROOM FINISH SCHEDULE

NO.	DESCRIPTION	FLOOR		BASE		WALL-NORTH		WALL-EAST		WALL-SOUTH		WALL-WEST		CEILING			REMARKS
		SUBSTRATE	FINISH	SUBSTRATE	FINISH	SUBSTRATE	FINISH	SUBSTRATE	FINISH	SUBSTRATE	FINISH	SUBSTRATE	FINISH	SUBSTRATE	FINISH	HEIGHT	
260	DRYER ROOM	CONC	HARDENER /SEALER	CMU	MFR/PT	CMU/MB	PT/MFR	CMU/MB	PT/MFR	CMU/MB	PT/MFR	CMU/MB	PT/MFR	ES	--	VARIES	
261	ELECTRICAL ROOM	CONC	SEALER	CMU	MFR/PT	CMU/MB	PT/MFR	CMU	PT	CMU	PT	CMU/MB	PT/MFR	GWB	PT	13' - 9"	2HR FIRE RATED CEILING
262	THERMAL FLUID	CONC	SEALER	CMU	MFR/PT	CMU/MB	PT/MFR	CMU/MB	PT/MFR	CMU/MB	PT/MFR	CMU/MB	PT/MFR	ES	--	VARIES	

ROOM FINISH LEGEND

CL	CONTAINMENT LINER
CONC	CONCRETE
CMU	CONCRETE MASONRY UNITS
ES	EXPOSED STRUCTURE
GWB	GYPSUM WALLBOARD
MB	METAL BUILDING
MFR	MANUFACTURER
PT	PAINT

ROOM FINISH SCHEDULE NOTES:

1. EXPOSED STEEL PEMB PRIMARY AND SECONDARY MEMBERS SHALL BE PAINTED. IN LIEU OF PAINTING CONTRACTOR MAY ELECT TO HOT DIP GALVANIZE PRIMARY AND SECONDARY FRAMING MEMBERS.

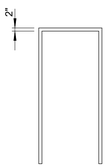
DOOR SCHEDULE

NO.	FRAME TYPE	FRAME MATL	DOOR TYPE	DOOR MATL	ACTIVE WIDTH	INACTIVE WIDTH	HEIGHT	THICKNESS	DETAILS	FIRE RATING	GLAZING TYPE	GLAZING SIZE	FINISH	SECURITY WIRING	HARDWARE NO	HARDWARE NOTE	THRESHOLD	REMARKS
260	F-1	AL	HG	AL	3' - 0"	0' - 0"	7' - 2"	1 3/4"	1/00-A-002	NR	IG	24"x36"	MFR		3		AL	
260A	MFR	STL	OH	AL	12' - 0"		16' - 0"	3/4"	2/00-A-002	NR			MFR		1	MOTOR		REFER TO SPEC 08 33 23
260B	F-1	AL	HG	AL	3' - 0"	0' - 0"	7' - 2"	1 3/4"	1/00-A-002	NR	IG	24"x36"	MFR		3		AL	
260C	F-1	AL	HG	AL	3' - 0"	0' - 0"	7' - 2"	1 3/4"	1/00-A-002	NR	IG	24"x36"	MFR		3	--	AL	
260D	MFR	STL	OH	AL	8' - 0"		10' - 0"	3/4"	2/00-A-002	NR			MFR		1	MOTOR		REFER TO SPEC 08 33 23
260E	F-1	AL	HG	AL	3' - 0"	0' - 0"	7' - 2"	1 3/4"	1/00-A-002	NR	IG	24"x36"	MFR		3		AL	
260F	MFR	STL	OH	AL	10' - 0"		12' - 0"	3/4"	2/00-A-002	NR			MFR		1	MOTOR	AL	REFER TO SPEC 08 33 23
261	F-1	AL	HG&HG	AL	3' - 2"	3' - 2"	10' - 0"	1 3/4"	1/00-A-002	NR	IG	24"x36"	MFR		2		AL	
261A	F-1	AL	HG	AL	3' - 0"	0' - 0"	7' - 2"	1 3/4"	1/00-A-002	NR	IG	24"x36"	MFR		4		AL	
262	MFR	STL	OH	AL	12' - 0"		16' - 0"	3/4"	2/00-A-002	NR			MFR		1	MOTOR	AL	REFER TO SPEC 08 33 23
262A	F-1	AL	HG	AL	3' - 0"	0' - 0"	7' - 2"	1 3/4"	1/00-A-002	NR	IG	24"x36"	MFR		4		AL	

DOOR LEGEND

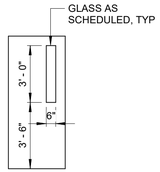
AL	ALUMINUM
IG	INSULATING GLAZING
FRG	FIRE GLASS
MFR	MANUFACTURER
NR	NONE REQUIRED
PT	PAINT
STL	STEEL

FRAME TYPES 1/4" = 1'-0"

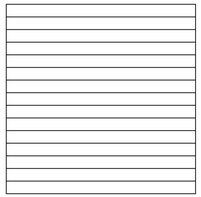


F-1

DOOR TYPES 1/4" = 1'-0"



NG



OH

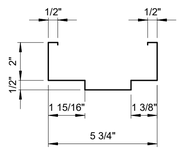
LOUVER SCHEDULE

Mark	FRAME MATERIAL	FRAME WIDTH	FRAME HEIGHT	DETAILS	REMARKS
L-260	AL	4' - 0"	5' - 4"	5/00-A-002	
L-261	AL	4' - 0"	5' - 4"	3/00-A-002	
L-262	AL	4' - 0"	4' - 0"	4/00-A-002	
L-263	AL	1' - 6"	1' - 6"	4/00-A-002	
L-264	AL	4' - 0"	4' - 0"	4/00-A-002	
Grand total: 8					

LOUVER LEGEND

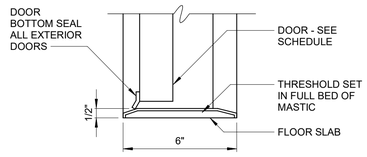
AL	ALUMINUM

FRAME PROFILES 3" = 1'-0"



FP-1

THRESHOLD TYPES 3" = 1'-0"



AL

ARCHITECTURAL GENERAL NOTES:

1. FOR CONCRETE AND STEEL SIZES AND CONFIGURATIONS, SEE STRUCTURAL DRAWINGS.
2. FOR LOCATION OF EQUIPMENT PADS, SEE STRUCTURAL AND PROCESS MECHANICAL DRAWINGS.
3. FOR FINAL GRADING AND BUILDING LOCATION, SEE CIVIL DRAWINGS.
4. FOR FLOOR DRAIN LOCATIONS, SEE CIVIL, STRUCTURAL AND PLUMBING DRAWINGS.
5. ITEMS NOT NOTED ON DRAWINGS SHALL BE CONSIDERED THE SAME AS NOTED ITEMS WHICH ARE GRAPHICALLY REPRESENTED IN THE SAME MANNER.
6. SURFACES TO BE PAINTED ARE NOT COMPLETELY INDICATED ON DRAWINGS. SEE DETAILS SPECIFICATION 09 90 00 PAINTING AND FINISH SCHEDULE. PAINT ALL NEW PIPING , EQUIPMENT, AND ACCESSORIES UNLESS NOTED OTHERWISE.
7. INTERIOR WALLS SHALL EXTEND TO UNDERSIDE OF THE ROOF OR FLOOR SLAB ABOVE UNO.
8. PROVIDE TOP OF WALL ANCHORS FROM THE TOP COURSE OF ALL INTERIOR MASONRY WALLS AND INSULATED PANELS TO UNDERSIDE OF STRUCTURE OR SURFACE ABOVE.
9. DOORS SHALL BE LOCATED 8" FROM THE CORNERS OF MASONRY WALLS UNLESS OTHERWISE DIMENSIONED ON THE PLAN.
10. WALL DIMENSIONS ARE TO FACE OF MASONRY. SEE PARTITION SCHEDULE FOR ADDITIONAL INFORMATION.
11. DIMENSIONS REPRESENT MASONRY OPENINGS IN MASONRY WALLS, AND NOMINAL OPENINGS IN METAL FRAMED WALLS.
12. MASONRY WALL DIMENSIONS ARE NOMINAL MASONRY SIZES UNO.
13. WHERE THE TERM "ALIGN" IS SHOWN ON THE DRAWING, IT SHALL MEAN THAT FINISH MATERIALS ON WALLS SHALL ALIGN. WHERE FINISHES HAVE DIFFERENT SUBSTRATES, PROVIDE A CONTROL JOINT IN THE FINISH MATERIAL WHERE THE DIFFERENT MATERIALS MEET.
14. VERTICAL MASONRY REINFORCING SHALL BE IN FULLY GROUTED CELLS, AND SPACED AS INDICATED ON DRAWINGS, ADJACENT TO ALL OPENINGS AND AT CORNERS.
15. CONDUITS IN FINISHED AREAS SHALL BE CONCEALED IN MASONRY WALLS.
16. WHERE DISSIMILAR METALS ADJOIN, SEPARATE WITH BARRIER COATING TO PREVENT GALVANIC CORROSION.
17. SEE DRAWINGS 00-S-001 AND 00-S-002 FOR STRUCTURAL LOADS, INCLUDING NON-STRUCTURAL COMPONENT ANCHORAGE TO RESIST SEISMIC FORCES.
18. PROVIDE APPROVED KNOX BOX AT EACH BUILDING MAIN ENTRANCE AND ENTRANCE GATE. WHERE NOT SHOWN ON DRAWINGS, COORDINATE LOCATION IN FIELD.
19. WHERE DISCREPANCIES ARE FOUND, NOTIFY THE ENGINEER IN ACCORDANCE WITH THE GENERAL CONDITIONS.
20. DRAWINGS ARE REPRESENTATIVE, AND DO NOT SUGGEST THE USE OF A PARTICULAR PRODUCT. NOTES AND SPECIFICATIONS SHALL DEFINE SPECIFIC PRODUCTS.
21. FIELD VERIFY ALL OPENING DIMENSIONS BEFORE FABRICATING DOORS, LOUVERS, OR WINDOWS.

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: A. QUEEN
DRAWN BY: S. MAHROUS
CHECKED BY: W. RUSSELL

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0, 1/2", 1")

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY ANDREW M. QUEEN, P.A. No. 017598 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

GENERAL
ARCHITECTURAL
ROOM FINISH, DOORS AND LOUVERS SCHEDULES, AND GENERAL NOTES

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 00-A-001

Autodesk Docs://32307-007_Rivetsend WTP Thermal Dryer Facility/32307-007-28-TDF-A.rvt
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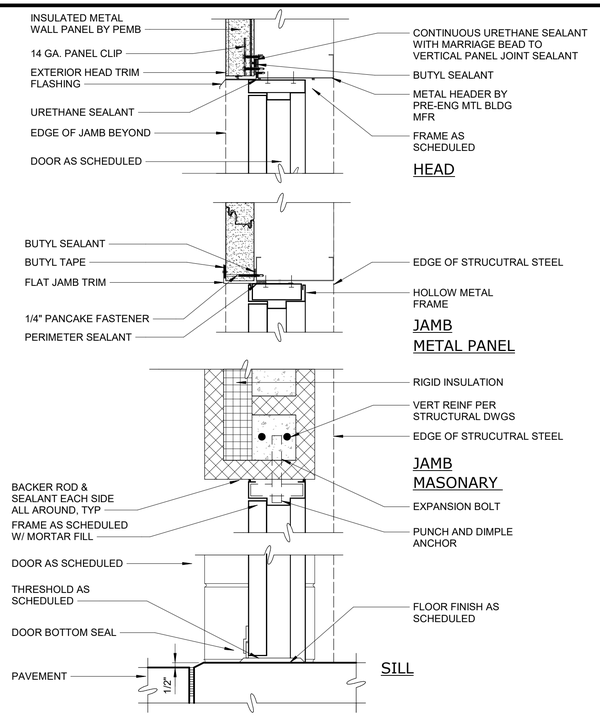
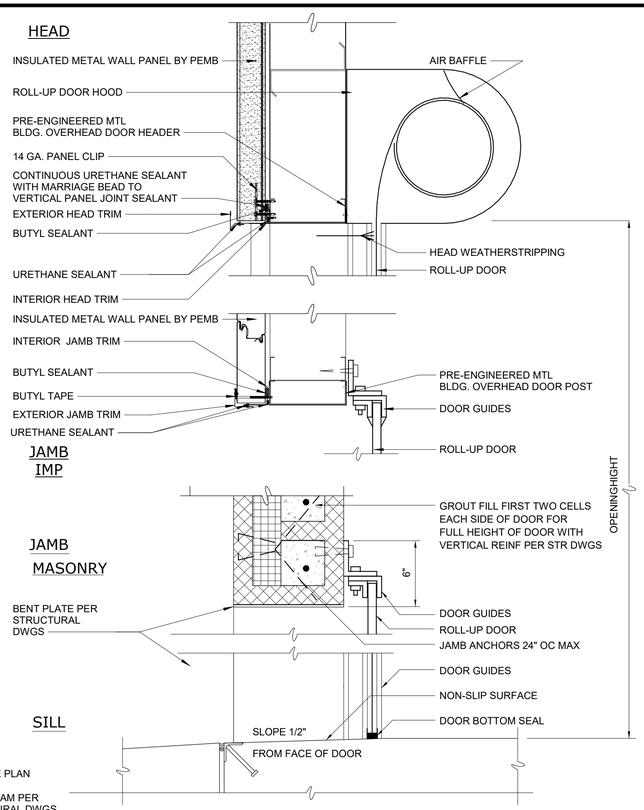


DOOR IN EXTERIOR WALL

DETAIL 1

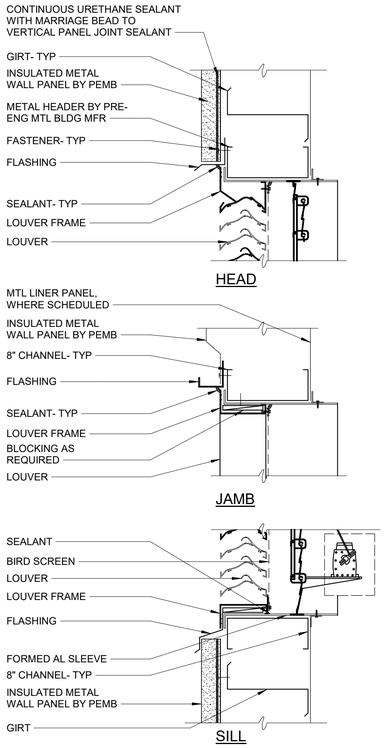
1 1/2" = 1'-0" | 00-A-002



ROLL-UP DOOR IN EXTERIOR WALL

DETAIL 2

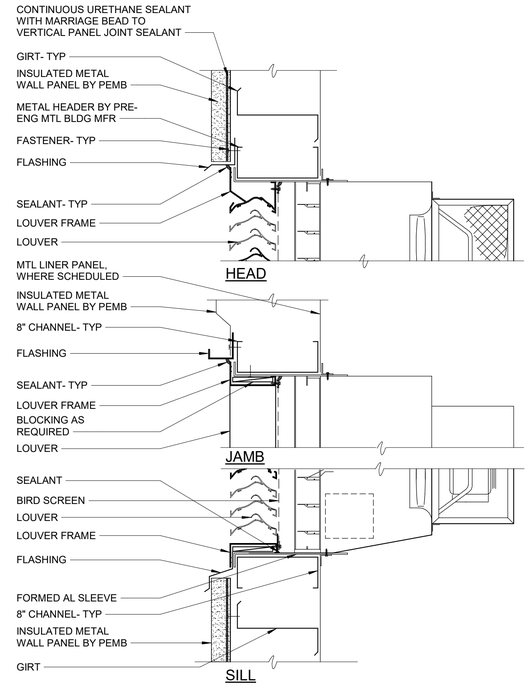
1 1/2" = 1'-0" | 00-A-002



LOUVER IN METAL BUILDING WALL

DETAIL 3

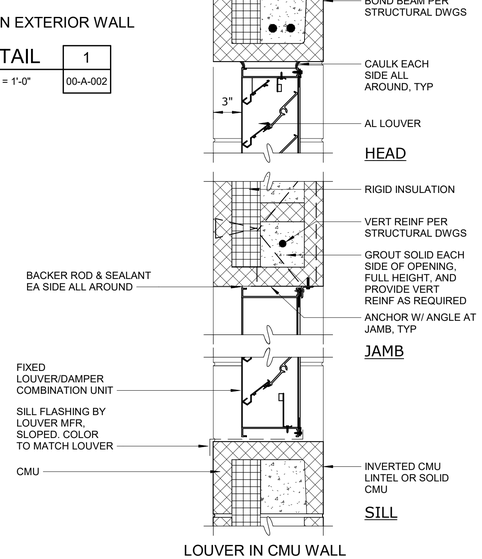
1 1/2" = 1'-0" | 00-A-002



LOUVER IN METAL BUILDING WALL 1

DETAIL 4

1 1/2" = 1'-0" | 00-A-002



LOUVER IN CMU WALL

DETAIL 5

1 1/2" = 1'-0" | 00-A-002

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	A. QUEEN
DRAWN BY:	S. MAHROUS
CHECKED BY:	W. RUSSELL

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0 1/2" 1")

CONFORMED DRAWING

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1300 ALTMORE AVE, SUITE 520
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GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

GENERAL
ARCHITECTURAL
DOORS AND LOUVERS DETAILS

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	00-A-002

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-A.rvt
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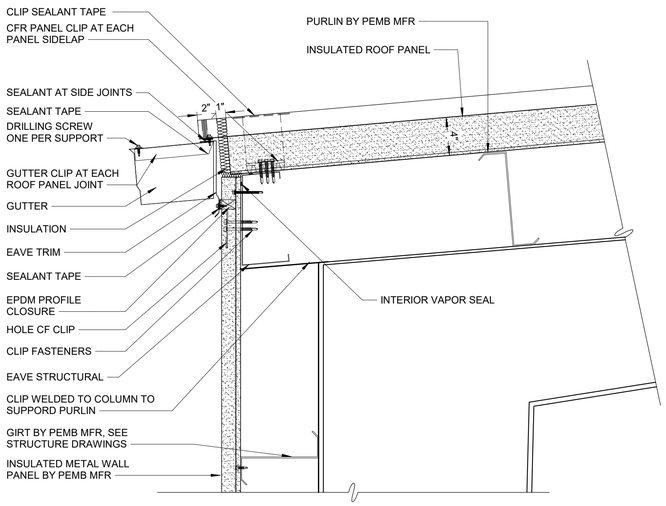
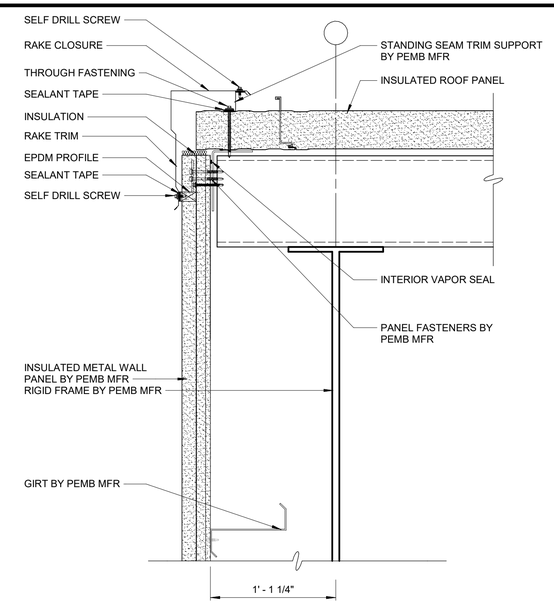


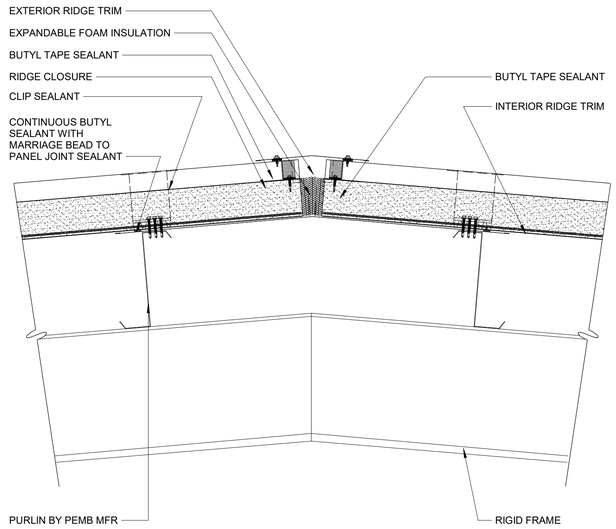
EAVE FLASHING

DETAIL	1
1 1/2" = 1'-0"	26-A-008



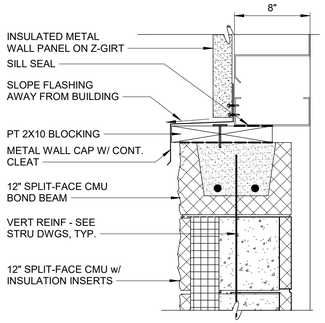
RAKE FLASHING

DETAIL	2
1 1/2" = 1'-0"	26-A-006



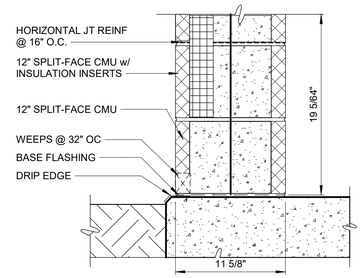
RIDGE CAP FOR PRE-ENG MTL BLDG

DETAIL	3
1 1/2" = 1'-0"	26-A-006



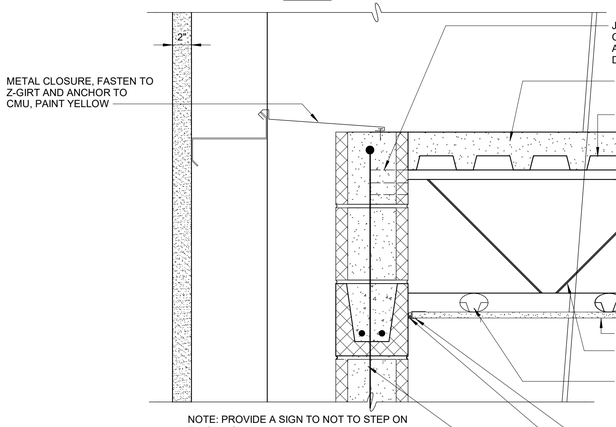
CMU WALL TO PEMB

DETAIL	4
1 1/2" = 1'-0"	26-A-008



WALL BASE

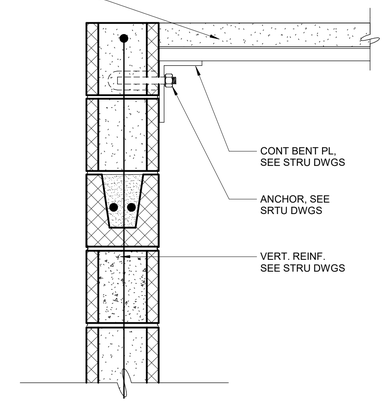
DETAIL	5
1 1/2" = 1'-0"	26-A-008



NOTE: PROVIDE A SIGN TO NOT TO STEP ON FLASHING

WALL TOP

DETAIL	6
1 1/2" = 1'-0"	26-A-006



WALL TOP

DETAIL	7
1 1/2" = 1'-0"	00-A-06

WARNING
AT THE TOP OF ELECTRICAL ROOM

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0 1/2" 1")

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	A. QUEEN
DRAWN BY:	S. MAHROUS
CHECKED BY:	W. RUSSELL

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY ANDREW M. QUEEN, P.A. No. 017598 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

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ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

GENERAL ARCHITECTURAL SECTION DETAILS

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	00-A-003

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-A.rvt
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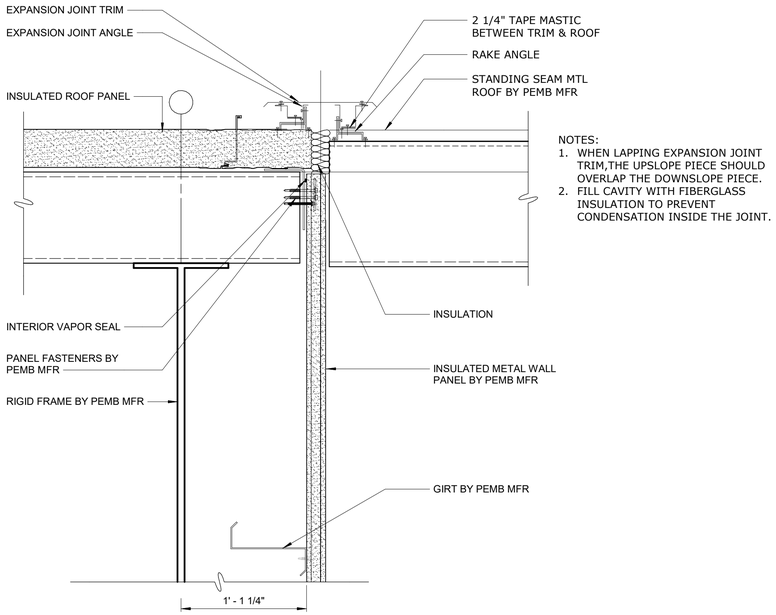
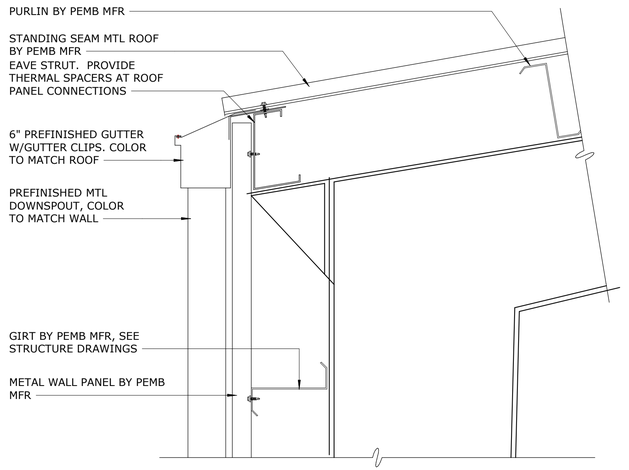


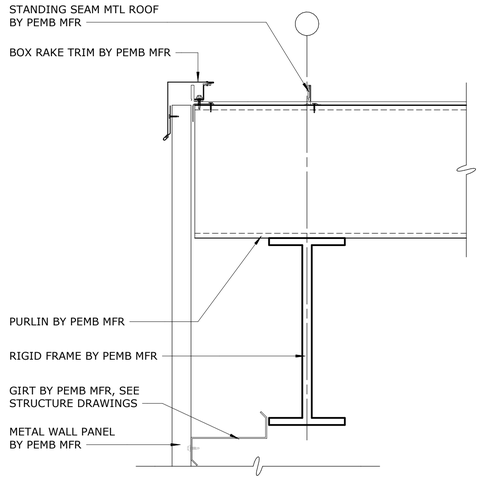
NOTES:
1. WHEN LAPPING EXPANSION JOINT TRIM,THE UPSLOPE PIECE SHOULD OVERLAP THE DOWNSLOPE PIECE.
2. FILL CAVITY WITH FIBERGLASS INSULATION TO PREVENT CONDENSATION INSIDE THE JOINT.

DETAIL 1 — 1 1/2" = 1'-0" — 00-A-008



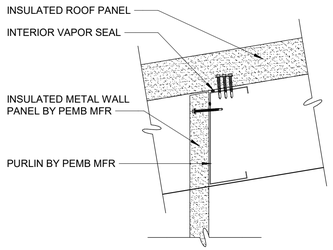
EAVE FLASHING

DETAIL 3 — 1 1/2" = 1'-0" — 00-A-003



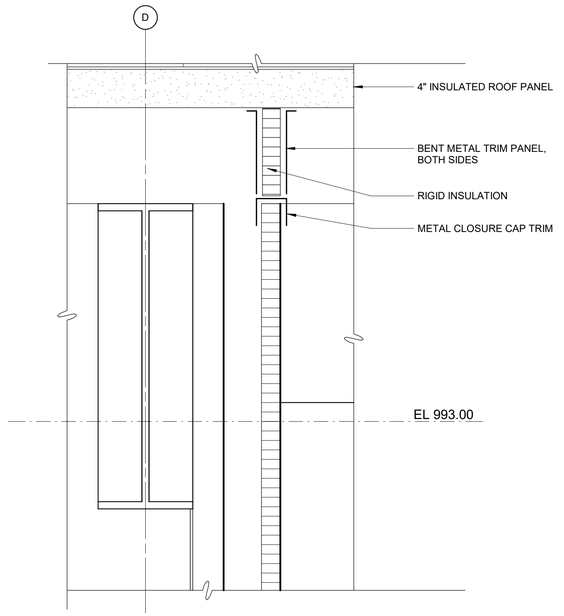
RAKE FLASHING

DETAIL 4 — 1 1/2" = 1'-0" — 26-A-006



INTERIOR WALL

DETAIL 2 — 1 1/2" = 1'-0" — 26-A-008



DETAIL 5 — 1 1/2" = 1'-0" — 26-A-006

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: A. QUEEN
DRAWN BY: S. MAHROUS
CHECKED BY: W. RUSSELL
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

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Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

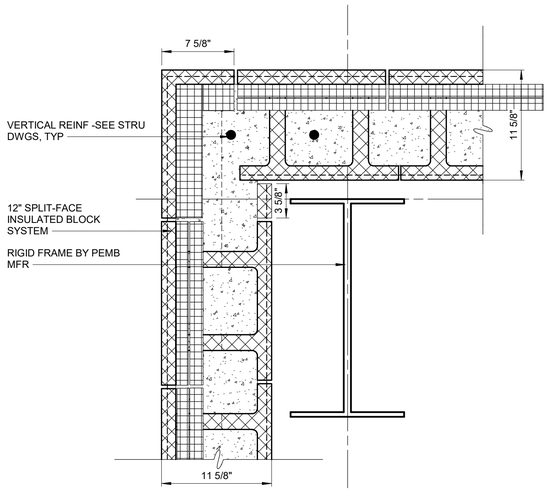
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

GENERAL ARCHITECTURAL SECTION DETAILS

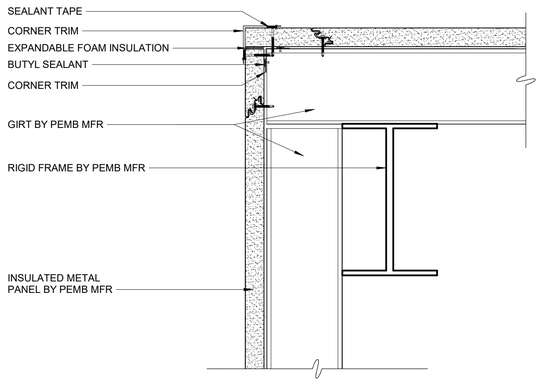
DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 00-A-004

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-A.rvt
3/9/2026 3:46:20 PM



MASONRY AT CORNER - CMU

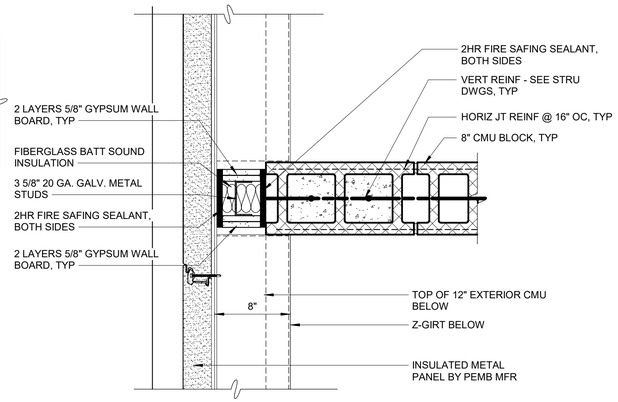
DETAIL	1
1 1/2" = 1'-0"	26-A-003



NOTE:
FIELD CUT STARTING PANEL AND ENDING PANEL AS REQUIRED AT CORNER TRANSITION.

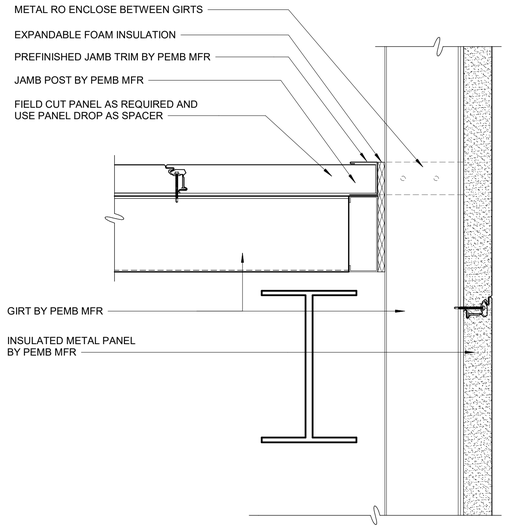
PEMB WALL PANEL AT CORNER

DETAIL	2
1 1/2" = 1'-0"	26-A-003



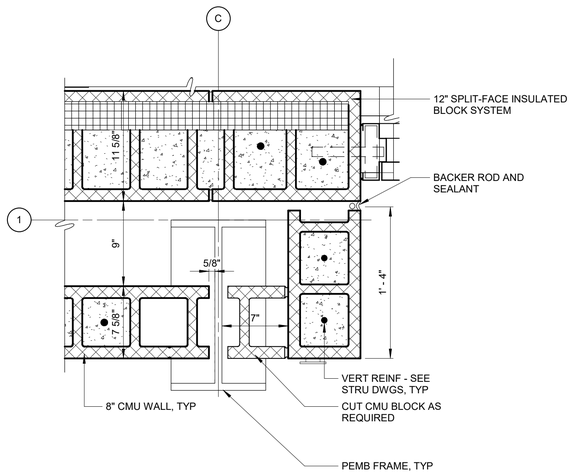
CMU PARTITION TO PEMB

DETAIL	3
1 1/2" = 1'-0"	26-A-003

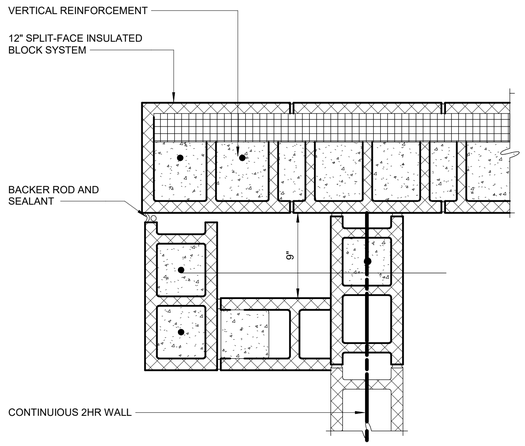


PEMB INT. WALL TO PEMB EXT. WALL

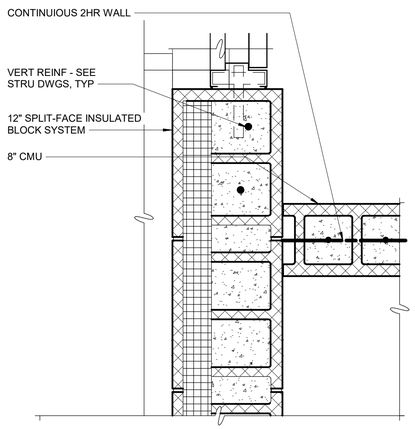
DETAIL	4
1 1/2" = 1'-0"	26-A-003



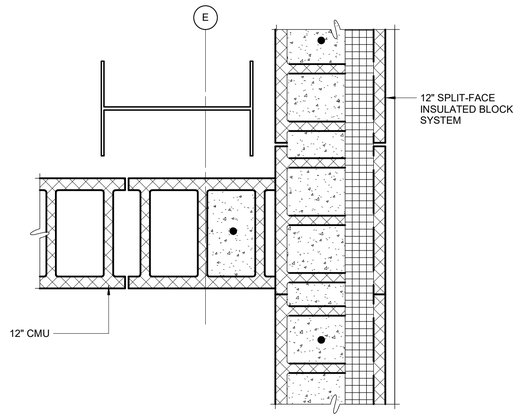
DETAIL	5
1 1/2" = 1'-0"	26-A-003



DETAIL	6
1 1/2" = 1'-0"	26-A-003



DETAIL	7
1 1/2" = 1'-0"	26-A-003



DETAIL	8
1 1/2" = 1'-0"	26-A-003

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

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PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: A. QUEEN
DRAWN BY: S. MAHROUS
CHECKED BY: W. RUSSELL

CONFORMED DRAWING

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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

GENERAL ARCHITECTURAL PLAN DETAILS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 00-A-005

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-A.rvt
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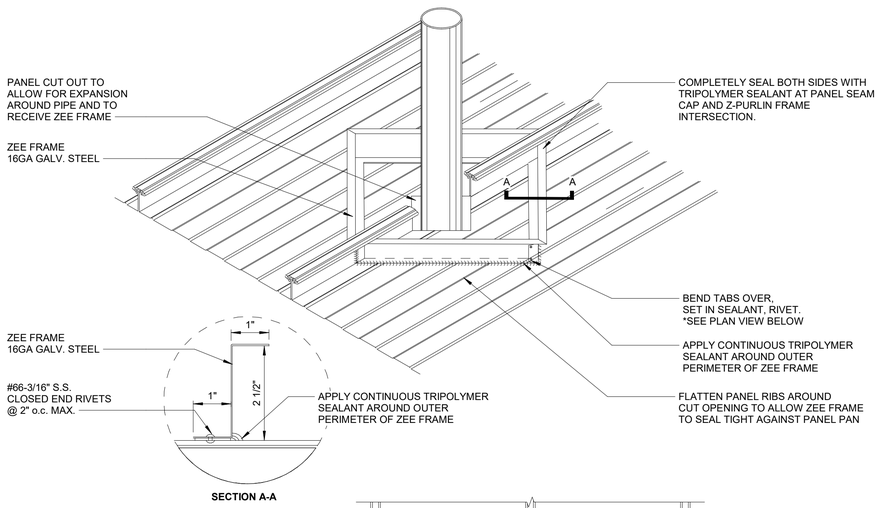
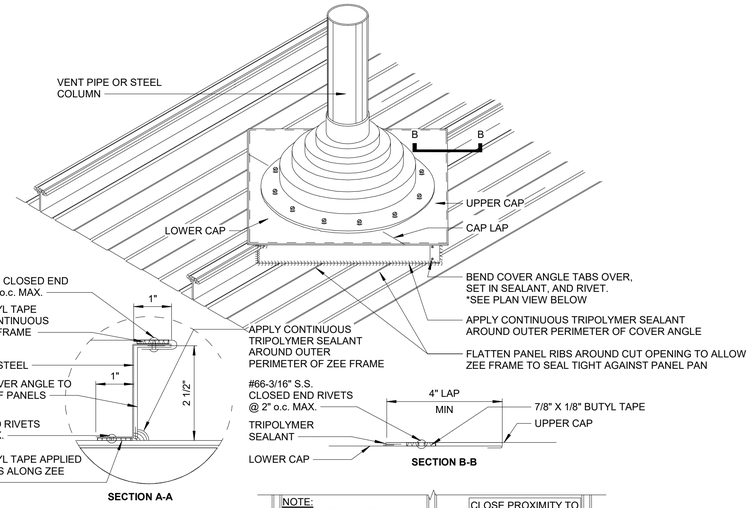
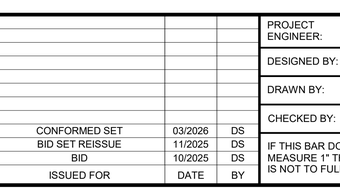


SECTION A-A

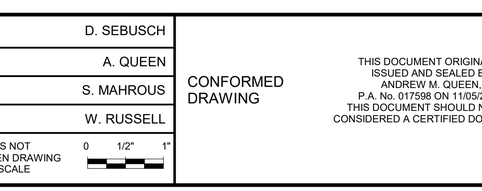


SECTION A-A

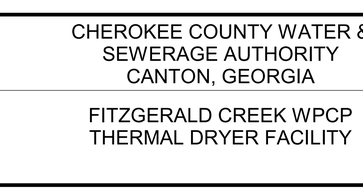
SECTION B-B



MITER JOINT



SECTION



PLAN VIEW

HEAVY DUTY BOOT THROUGH PANEL SEAM

DETAIL 1

6" = 1'-0" 00-A-008

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
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PROJECT ENGINEER: D. SEBUSCH

DESIGNED BY: A. QUEEN

DRAWN BY: S. MAHROUS

CHECKED BY: W. RUSSELL

CONFORMED DRAWING

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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

GENERAL ARCHITECTURAL ROOF DETAILS

DATE: NOVEMBER 2025

HAZEN NO.: 32307-007

CCWSA No.: 2022_007

DRAWING NUMBER: 00-A-006

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-A.rvt
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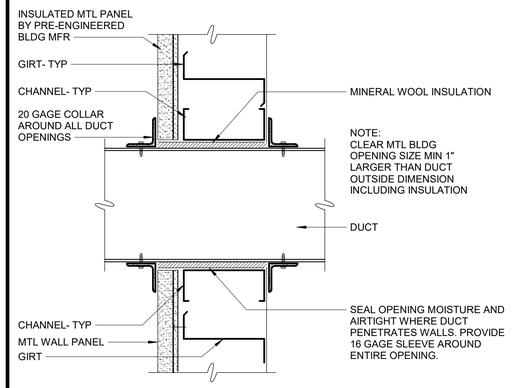
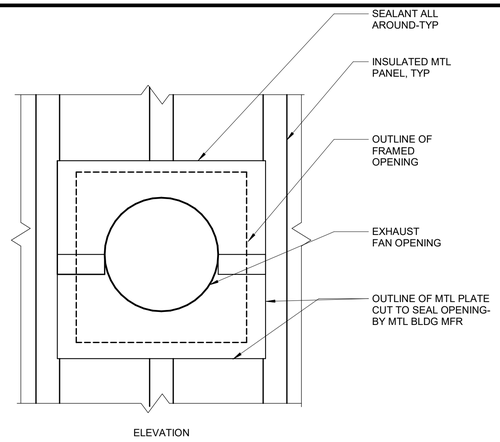
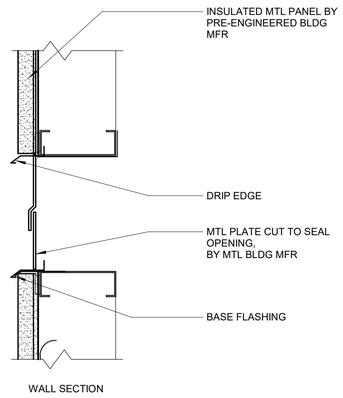


DUCT THRU METAL BUILDING WALL

DETAIL	1
1 1/2" = 1'-0"	00-A-006

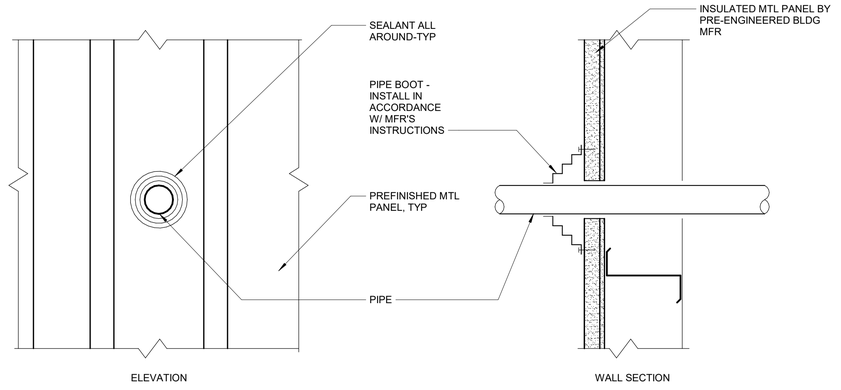




NOTE:
WHERE PIPE BOOTS CAN BE USED, INSTALL IN ACCORDANCE W/ MFR'S INSTRUCTIONS

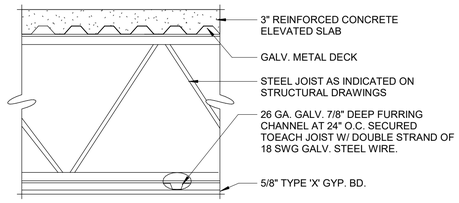
METAL BLDG - LARGE PIPE PENETRATION THROUGH WALL

DETAIL	3
1 1/2" = 1'-0"	00-A-006



METAL BLDG - SMALL PIPE PENETRATION THROUGH WALL

DETAIL	4
1 1/2" = 1'-0"	00-A-006

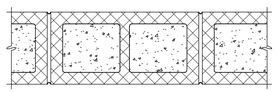


NOTE:
POOL WALLS (23P)
SUBSTITUTE 10 MIL POLY VAPOR BARRIER & MOISTURE RESISTANT GYPSUM WALL BOARD ON POOL SIDE, TAPE ALL JOINTS

TYPICAL ASSEMBLY AT G.W.B. CEILINGS AND SEAL ALL PENETRATIONS.

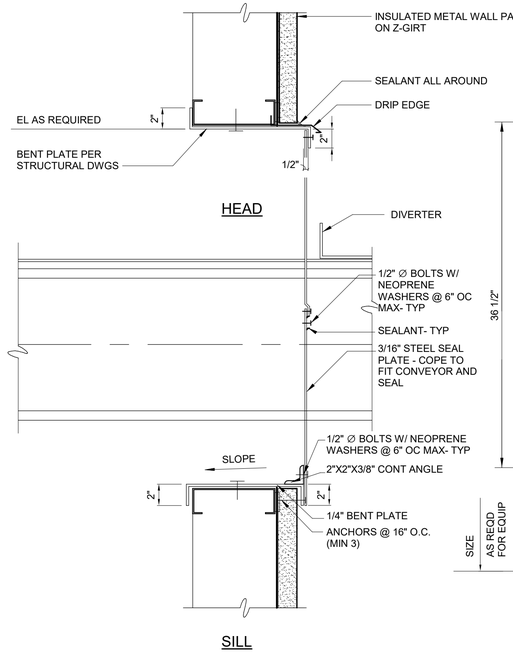
2-HOUR FLOOR/CEILING ASSEMBLY

DETAIL	6
1 1/2" = 1'-0"	00-A-006



2-HOUR WALL ASSEMBLY

DETAIL	8
1 1/2" = 1'-0"	00-A-006



CONVEYOR OPENING

DETAIL	5
1 1/2" = 1'-0"	00-A-006

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

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PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	A. QUEEN
DRAWN BY:	S. MAHROUS
CHECKED BY:	W. RUSSELL

CONFORMED DRAWING

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GBPE LIC #: PEF003685 EXP: 6/30/2026

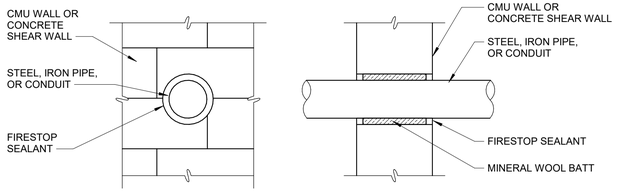
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

GENERAL ARCHITECTURAL DETAILS

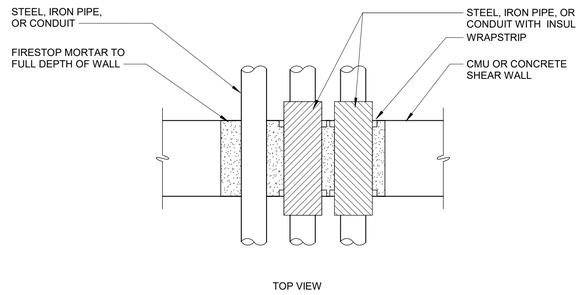
DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	00-A-007

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-A.rvt
3/9/2026 3:46:21 PM

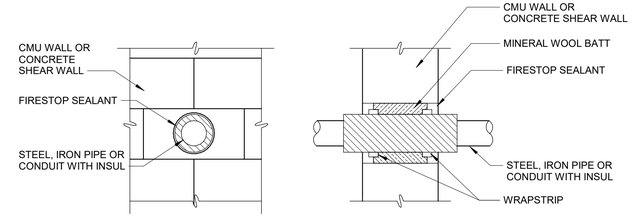


2-HR METALLIC PIPE THROUGH CMU OR CONCRETE SHEAR WALL
UL DESIGN C-AJ-1079

DETAIL 1
1" = 1'-0" 00-A-008

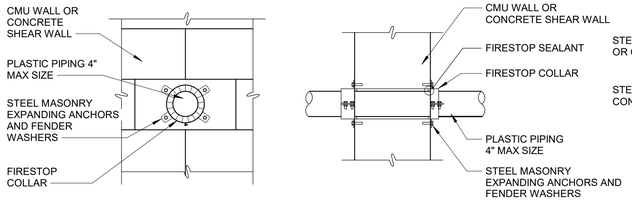


TOP VIEW



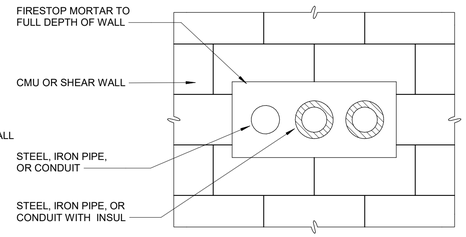
2-HR INSULATED METALLIC PIPE THROUGH CMU OR CONCRETE SHEAR WALL
WALL UL DESIGN C-AJ-5051 OR C-AJ-5042

DETAIL 3
1" = 1'-0" 00-A-008



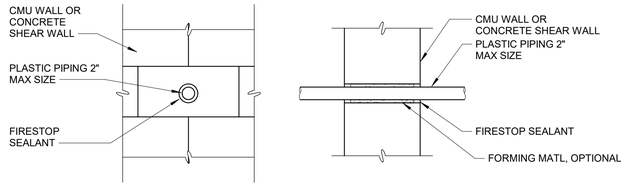
2-HR PLASTIC PIPE THROUGH CMU OR CONCRETE SHEAR WALL
UL DESIGN C-AJ-2063

DETAIL 4
1" = 1'-0" 00-A-008



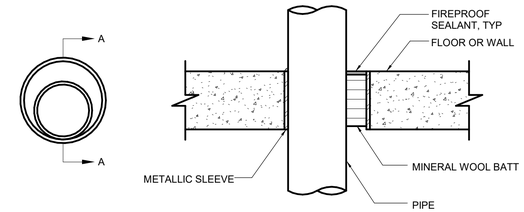
2-HR MULTIPLE PIPES THROUGH CMU OR CONCRETE SHEAR WALL
WALL UL DESIGN C-AJ-8033

DETAIL 2
1" = 1'-0" 00-A-008



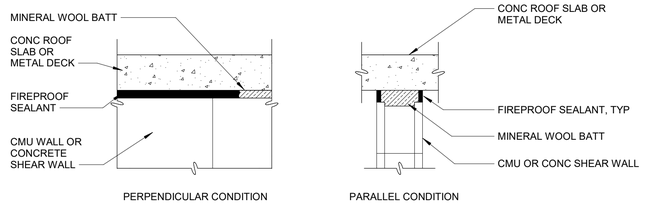
2-HR PLASTIC PIPE THROUGH CMU OR CONCRETE SHEAR WALL
UL DESIGN C-AJ-2031

DETAIL 5
1" = 1'-0" 00-A-008



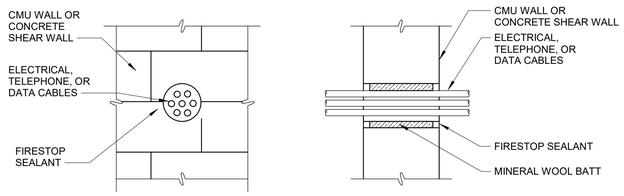
2-HR PIPE THROUGH FLOOR

DETAIL 6
12" = 1'-0" 00-A-008



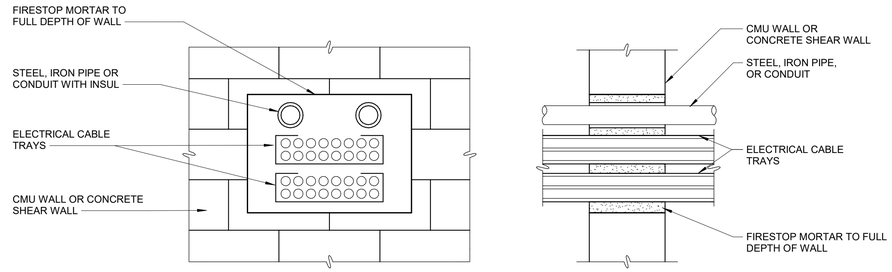
2-HR TOP OF WALL
UL DESIGN HW-D-0027

DETAIL 7
1" = 1'-0" 00-A-008



2-HR ELECTRICAL CABLE THROUGH CMU WALL
UL DESIGN C-AJ-3042

DETAIL 8
1" = 1'-0" 00-A-008



2-HR MULTIPLE PIPE/CABLE TRAY THROUGH CMU OR SHEAR WALL WALL
UL DESIGN C-AJ-8016

DETAIL 9
1" = 1'-0" 00-A-008

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: A. QUEEN
DRAWN BY: S. MAHROUS
CHECKED BY: W. RUSSELL

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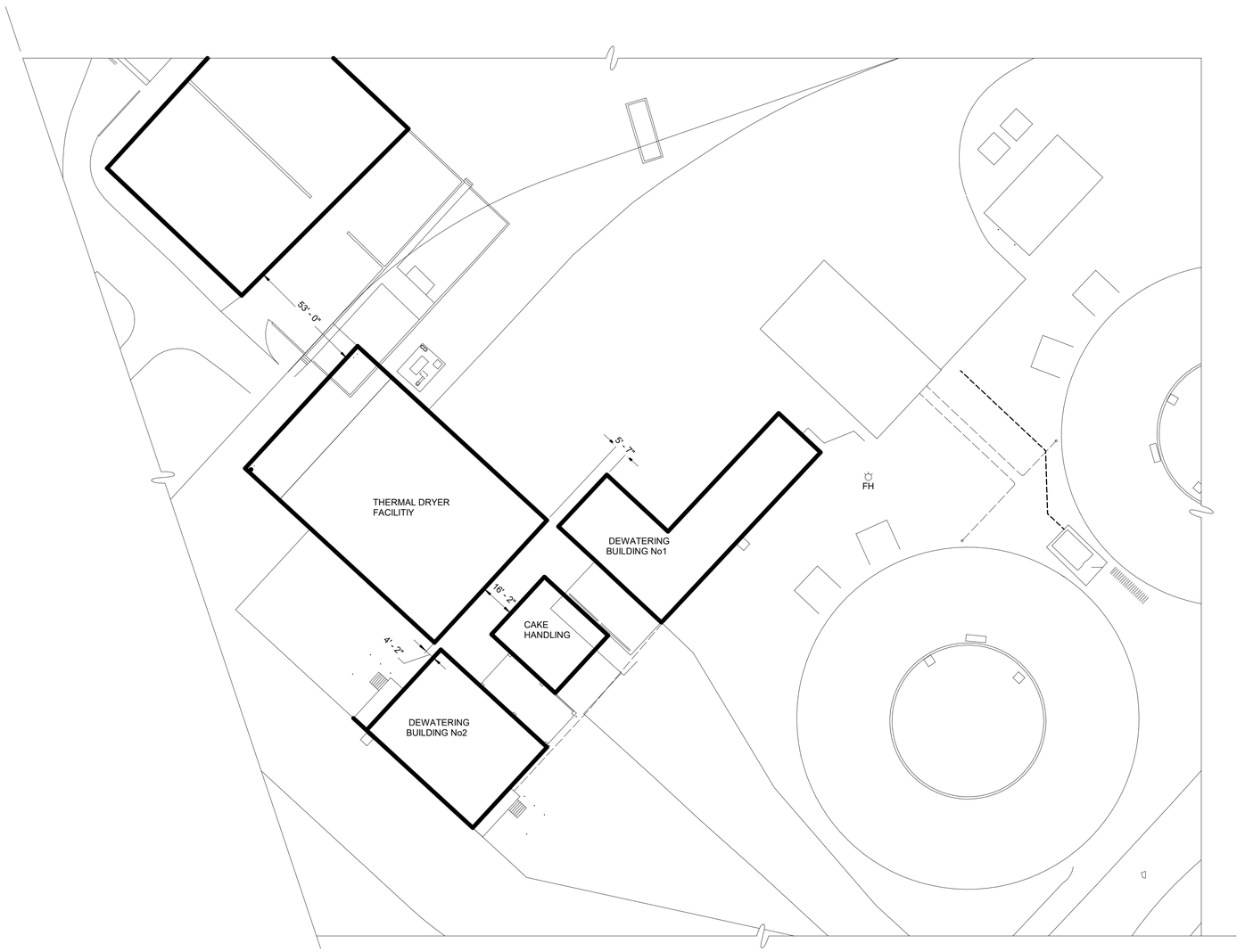
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

GENERAL
ARCHITECTURAL
2-HR FIRESTOPPING DETAILS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 00-A-008

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-A.rvt
3/9/2026 3:46:22 PM



PARTIAL SITE PLAN
1" = 30'-0"

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

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DESIGNED BY:	A. QUEEN
DRAWN BY:	S. MAHROUS
CHECKED BY:	W. RUSSELL

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

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1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
ARCHITECTURAL
PARTIAL SITE PLAN

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	26-A-000

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-A.rvt
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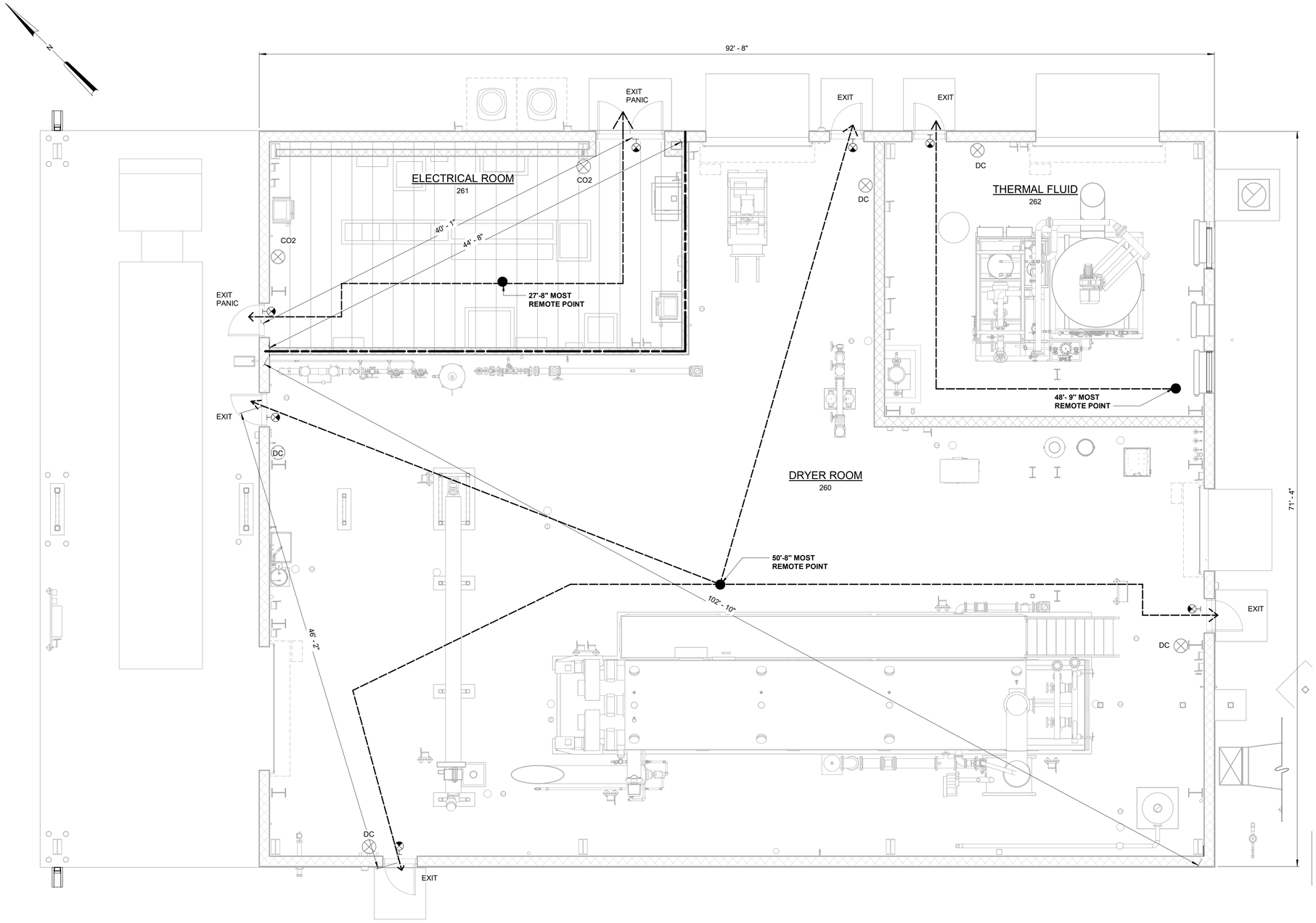

LIFE SAFETY PLAN

3/16" = 1'-0"

LEGEND:

- 2 HOUR RATED FLOOR - CEILING ASSEMBLY THROUGHOUT ELEC ROOM.
- 2-HR FIRE RATED WALL - SEE DETAIL 00-A-006
- FIRST AID CABINET
- DC — FIRE EXTINGUISHER - DRY CHEMICAL
- CO_2 — FIRE EXTINGUISHER - CARBON DIOXIDE
- PANIC — PROVIDE PANIC HARDWARE
- EXIT SIGN - SEE ELEC DWGS

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	A. QUEEN
DRAWN BY:	S. MAHROUS
CHECKED BY:	W. RUSSELL

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THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
ARCHITECTURAL
LIFE SAFETY PLAN

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	26-A-001

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COMcheck Software Version COMcheckWeb

Envelope Compliance Certificate

Project Information

Energy Code: 90.1 (2013) Standard
Project Title: FITZGERALD CREEK WPCP, THERMAL DRYER FACILITY
Location: CANTON, Georgia
Climate Zone: 3a
Project Type: New Construction
Performance Sim. Specs: EnergyPlus 8.1.0.009 (EPW: USA_GA_Atlanta-Hartsfield-Jackson.Intl.AP.722190_TMY3.epw)

Construction Site:

Owner/Agent:

Designer/Contractor:

Building Area	Floor Area
1-Warehouse : Nonresidential	6720

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof: Other Insulation Above Deck Roof, [Bldg. Use 1 - Warehouse] (b)	6660	---	---	0.038	0.039
Floor: Unheated Slab-On-Grade, Vertical 2 ft., [Bldg. Use 1 - Warehouse] (c)	330	---	12.4	0.530	0.530
NORTH					
Ext. Wall: Other Metal Building Wall, [Bldg. Use 1 - Warehouse] (b)	1594	---	---	0.077	0.094
Exterior Wall: Concrete Block, 12in., Partially Grouted, Cells Ins., Medium Density, Furring: None, [Bldg. Use 1 - Warehouse]	414	---	11.5	0.064	0.123
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Warehouse]	42	---	---	0.300	0.700
Door: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Warehouse]	128	---	---	0.300	0.500
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Warehouse]	42	---	---	0.250	0.700
EAST					
Ext. Wall: Other Metal Building Wall, [Bldg. Use 1 - Warehouse] (b)	1498	---	---	0.077	0.094
Ext. Wall: Concrete Block, 12in., Partially Grouted, Cells Ins., Medium Density, Furring: None, [Bldg. Use 1 - Warehouse]	459	---	11.5	0.064	0.123
Door: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Warehouse]	80	---	---	0.300	0.500
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Warehouse]	21	---	---	0.300	0.700
SOUTH					
Ext. Wall: Other Exterior Wall, Heat capacity 0.0, [Bldg. Use 1 - Warehouse] (b)	1695	---	---	0.077	0.089
Ext. Wall: Concrete Block, 12in., Partially Grouted, Cells Ins., Medium Density, Furring: None, [Bldg. Use 1 - Warehouse]	659	---	11.5	0.064	0.123
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Warehouse]	21	---	---	0.300	0.700
WEST					
Ext. Wall: Other Metal Building Wall, [Bldg. Use 1 - Warehouse] (b)	1521	---	---	0.077	0.094

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Ext. Wall: Concrete Block, 12in., Partially Grouted, Cells Empty, Medium Density, Furring: None, [Bldg. Use 1 - Warehouse]	390	---	11.5	0.070	0.123
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Warehouse]	42	---	---	0.300	0.700
Door: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Warehouse]	80	---	---	0.500	0.500

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) 'Other' components require supporting documentation for proposed U-factors.
(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 5% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 90.1 (2013) Standard requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title

Signature

Date

BUILDING CODE ANALYSIS
GEORGIA STATE MINIMUM STANDARD BUILDING CODE (IBC), 2018
GEORGIA STATE MINIMUM FIRE PREVENTION CODE (IFC), 2018
GEORGIA LIFE SAFETY CODE (LSC), 2018

SEE BELOW FOR COMPLETE LIST OF MANDATORY CODES AS ADOPTED BY DCA

OCCUPANCY AND CONSTRUCTION CLASSIFICATION

	2018 IBC or IFC			2018 LSC		
CODE ITEM	**Reference**	**Allowed**	**Provided**	**Reference**	**Allowed**	**Provided**
OCCUPANCY CLASSIFICATION 2020 Codes Reference Guide: LSC Primary/ IBC Supplement	306.2	**F-2** LOW-Hazard Factory Industrial	**F-2** LOW-Hazard Factory Industrial	LSC 40.1.2.1.2	**General Industrial Occupancy**	**General Industrial Occupancy**
CONSTRUCTION CLASSIFICATION 2020 Codes Reference Guide: IBC Primary/ LSC Supplement	TABLE 601	TYPE II-B	**TYPE II-B**	LSC 8.2.1.2 NFPA 220 TABLE 4.1.1	**TYPE II (000)**	**TYPE II (000)**
CONSTRUCTION CLASSIFICATION NOTES	INSULATED METAL WALL PANELS AND PRE-ENGINEERED METAL ROOF SYSTEM					

BUILDING REQUIREMENTS

BUILDING HEIGHT (FEET)	TABLE 504.3	NS 55 FT	**NS 31' 7'' FT**	*2020 Codes Reference Guide IBC is primary with no supplement*
BUILDING STORIES	TABLE 504.4	2	**1**	
BUILDING AREA	TABLE 506.2	NS 15,500 SF	**NS 6,611 SF**	
THERMAL DRYER FACILITY			6,611 SF	

FIRE RESISTANCE RATING REQUIREMENTS

STRUCTURAL FRAME	TABLES 601 & 602	0 HR	**NONE**	*2020 Codes Reference Guide IBC is primary with no supplement* ***Per NFPA 70, Chapter 7, 700.10(D)(3)***
EXTERIOR BEARING WALLS				
NORTH		0 HR	**0 HR**	
EAST		0 HR	**0 HR**	
SOUTH		0 HR	**0 HR**	
WEST		0 HR	**0 HR**	
INTERIOR NON-BEARING WALL		0 HR	**2 HR per NFPA 70 (National Elec Code), Chapter 7, 700.10(D)(3)**	
FLOOR CONSTRUCTION		0 HR	**0 HR**	
ROOF CONSTRUCTION		0 HR	**0 HR**	
SHAFT ENCLOSURES	713		**NONE**	
OPENING PROTECTIVES	716.3		**NONE**	
INTERIOR FINISH	TABLE 803.13	C	**C**	

EGRESS REQUIREMENTS

CALCULATED OCCUPANT LOAD

	2018 IBC or IFC	2018 LSC		
		(p)	**(q)**	**(r= p/q)**
USE GROUP OR SPACE DESCRIPTION (LSC)	*2020 Codes Reference Guide LSC is primary with no supplement*	**AREA SF**	**LOAD FACTOR TABLE 7.3.1.2**	**OCCUPANT LOAD**
GROUND FLOOR, LSC SPECIAL-PURPOSE INDUSTRIAL		6,611 SF	MP (Max. Probable)	5

EGRESS WIDTH PER OCCUPANT

2018 IBC or IFC	2018 LSC							
	Capacity Factor		**Calculated**		**Allowed**		**Provided**	
2020 Codes Reference Guide LSC is primary with no supplement	**(s) STAIR 7.3.3.1**	**(t) DOOR 7.3.3.1**	**(r*s) STAIR CALC**	**(r*t) DOOR CALC**	**STAIR 40.2.5.3.1**	**DOOR 7.2.1.2.3.2**	**STAIR CLEAR WIDTH**	**DOOR CLEAR WIDTH**
	GROUND FLOOR- GENERAL INDUSTRIAL							
	0.3	0.2	N/A	0.2 * 66=13.2''	22''	32''	**N/A**	**32''**

CODE ITEM		Reference	Allowed	Provided
MINIMUM EGRESS WIDTH	*2020 Codes Reference Guide LSC is primary with no supplement*	LSC 7.3.4.1	36''	**36''**
MINIMUM EQUIPMENT ACCESS WIDTH		LSC TABLE 40.2.5.3.1	22''	**N/A**
EXIT ACCESS TRAVEL DISTANCE		LSC TABLE 40.2.6.1	NS 200'	**NS 50'-8''**
COMMON PATH OF TRAVEL		LSC TABLE 40.2.5.1	NS 50'	**0**
DEAD END CORRIDOR DISTANCE		LSC TABLE 40.2.5.1	NS 50'	**N/A**

ACCESSIBILITY

ACCESSIBILITY IS NOT REQUIRED PER 2010 ADA, Chapter 2, 203.5 Machinery Spaces	*NFPA 5000 is not referenced by LSC*

LIFE SAFETY SYSTEMS

	2018 IBC or IFC			2018 LSC		
	Reference	**Required**	**Provided**	**Reference**	**Required**	**Provided**
EMERGENCY LIGHTING	1008	YES	**YES**	LSC 7.8, 7.9	YES	**YES**
EXIT SIGNS	1013	YES	**YES**	LSC 7.10.1.5	YES	**YES**
SPRINKLER SYSTEMS	*2020 Codes Reference Guide LSC is primary with no supplement*			LSC TABLE 40.2.6.1	NOT REQUIRED	**NONE**
FIRE ALARM				LSC 40.3.4.1	NOT REQUIRED	**NONE**
SMOKE DETECTION				LSC 40.3.4.1	NOT REQUIRED	**NONE**
PANIC HARDWARE				**LSC 7.2.1.7**	NOT REQUIRED	**NO**
PANIC HARDWARE – Elec Rm, Thrml Fld Rm				**NFPA 70, 110.26(C)(3)**	REQUIRED	**YES**
FIRE EXTINGUISHERS	IFC 906	NFPA 10	**YES**	*2020 Codes Reference Guide IFC is primary with no supplement*		
HAZARD CLASSIFICATION	NFPA 10: 5.4.1.1	LIGHT HAZARD	**LIGHT HAZARD**			
OCCUPANCY HAZARD CLASSIFICATION	NFPA: 5.2	CLASS C	**CLASS C**			
FIRE EXTINGUISHER- CARBON DIOXIDE	NFPA 10: 6.2.1.1	10-BC	**10-BC**			
TRAVEL DISTANCE		75 FT MAX	**50' 8''FT**			
FLOOR AREA PER EXTINGUISHER		11,250 SF MAX	**6,611/ 7 = 945 SF**			
LIFE SAFETY NOTES	BUILDING IS ACCESSED ONLY BY PERSONNEL FOR MAINTENANCE, MONITORING, OR REPAIR					
STRUCTURAL LOADS	STRUCTURAL AND WIND LOADS, SEE STRUCTURAL DRAWINGS.					
PLUMBING FIXTURES	PLUMBING FIXTURES PROVIDED IN ADJACENT FACILITIES			*No comparable requirement*		

3 **NOTE** - UPON COMPLETION OF THE BUILDING, THE CONTRACTOR SHALL PERFORM A TEST TO DETERMINE THE STRENGTH OF EMERGENCY RESPONDER RADIO COVERAGE INSIDE THE BUILDING TO DETERMINE IF A BDA (BI-DIRECTIONAL AMPLIFIER) SYSTEM WILL BE NEEDED TO COMPLY WITH SECTION 510 OF THE 2018 INTERNATIONAL FIRE CODE AND NFPA 1225 - STANDARD FOR EMERGENCY SERVICES COMMUNICATIONS. IF OWNER DIRECTS CONTRACTOR TO PROVIDE A BDA SYSTEM, PROVISION AND TESTING OF THE BDA SYSTEM WILL BE PAID FOR UNDER BID ITEM No. 3.1 - OWNER-DIRECTED WORK ITEMS.

Applicable Codes;

International Building Code 2018 – with Georgia Amendments 2020, 2022, 2024, & 2025.
International Plumbing Code 2018 – with Georgia Amendments 2020, 2022, 2023, & 2024.
International Mechanical Code 2018 – with Georgia Amendments 2020 & 2024.
International Fuel Gas Code 2018 – with Georgia Amendments 2020 & 2022.
International Energy Conservation Code 2015 – with Georgia Supplement & Amendments 2020, 2022, & 2023.
International Fire Code 2018 Edition.
Life Safety Code – NFPA 101
National Electric Code (NFPA 70) 2023 Edition.

REV	ISSUED FOR	DATE	BY
4	CONFORMED SET	03/2026	DS
3	ADDENDUM No. 1	11/2025	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: A. QUEEN
DRAWN BY: S. MAHROUS
CHECKED BY: W. RUSSELL
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CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
ARCHITECTURAL
BUILDING CODE SUMMARY

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 26-A-002

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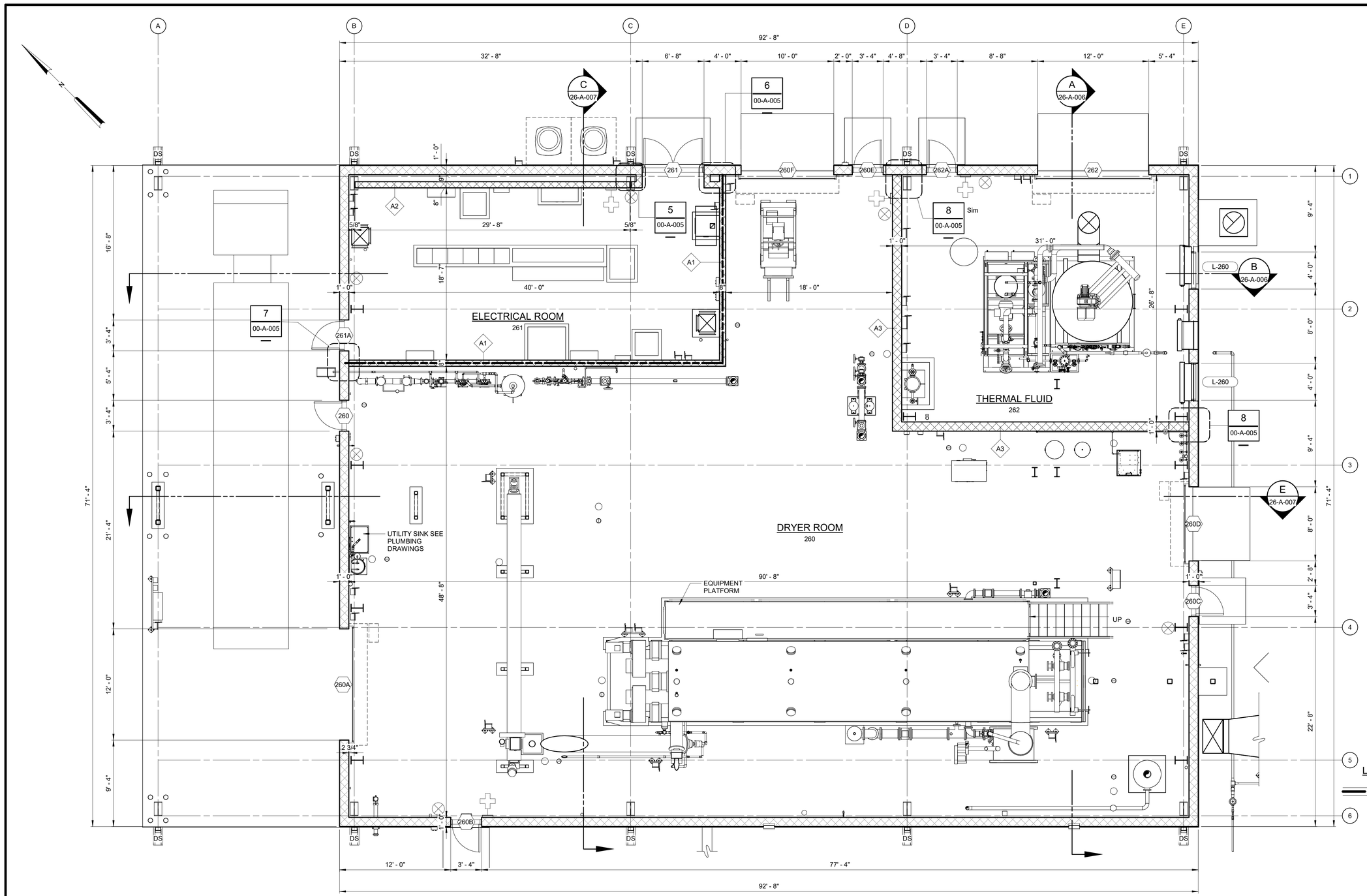

FLOOR PLAN

3/16" = 1'-0"

LEGEND:

- 2-HR FIRE RATED WALL - SEE DETAIL 8/ 00-A-006
- 100 — DOOR NUMBER - SEE SCHEDULE, SHEET 00-A-002
- FE — FIRE EXTINGUISHER - DRY CHEMICAL
- CO_2 — FIRE EXTINGUISHER - CARBON DIOXIDE
- L-1 — LOUVER NUMBER - SEE SCHEDULE, SHEET 00-A-002
- DS — DOWNSPOUT

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
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FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
ARCHITECTURAL
FLOOR PLAN

DATE:	NOVEMBER 2025
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CCWSA No.:	2022_007
DRAWING NUMBER:	26-A-003

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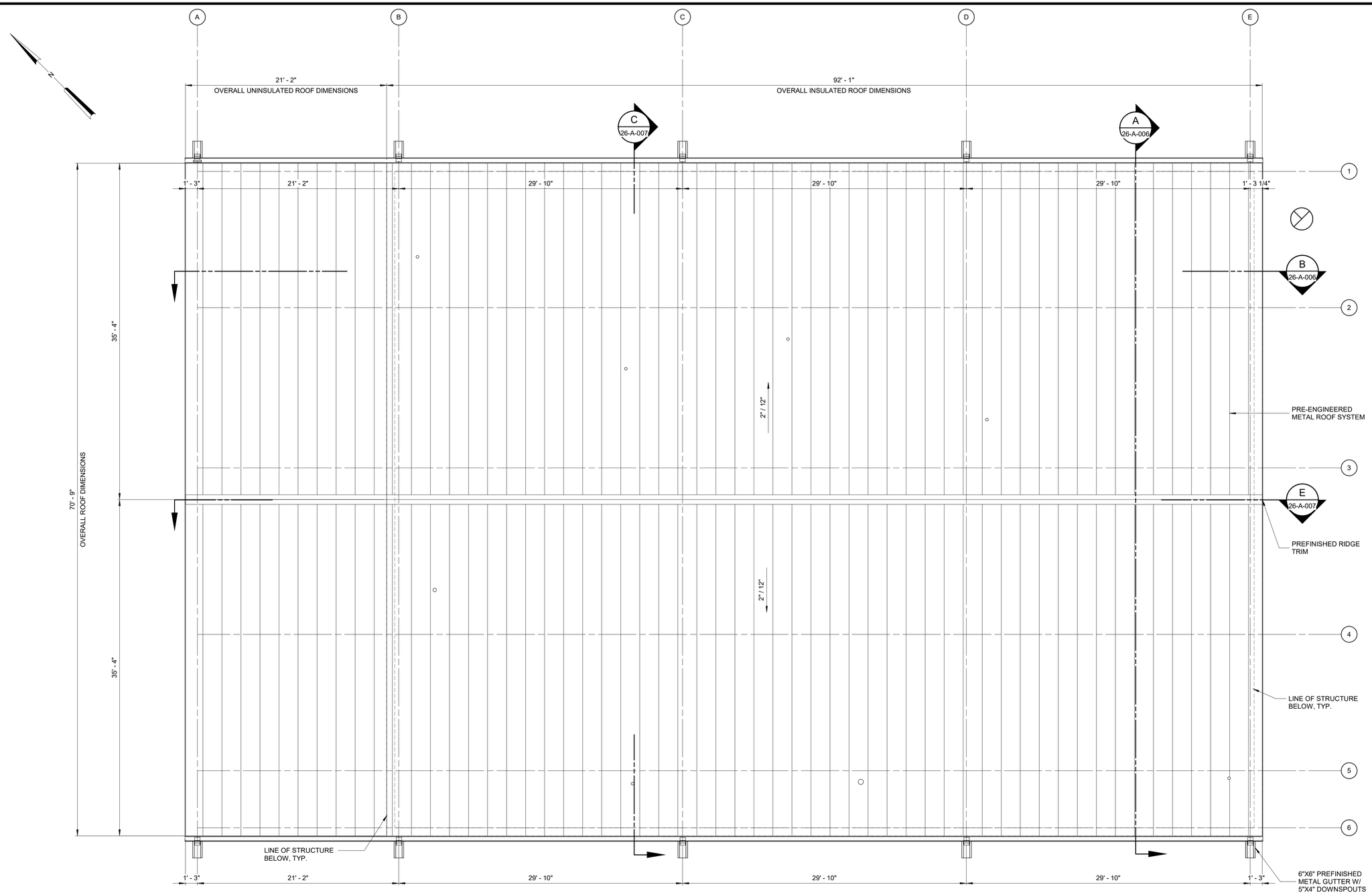

ROOF PLAN

3/16" = 1'-0"

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

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THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
ARCHITECTURAL
ROOF PLAN

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DRAWING NUMBER:	26-A-004

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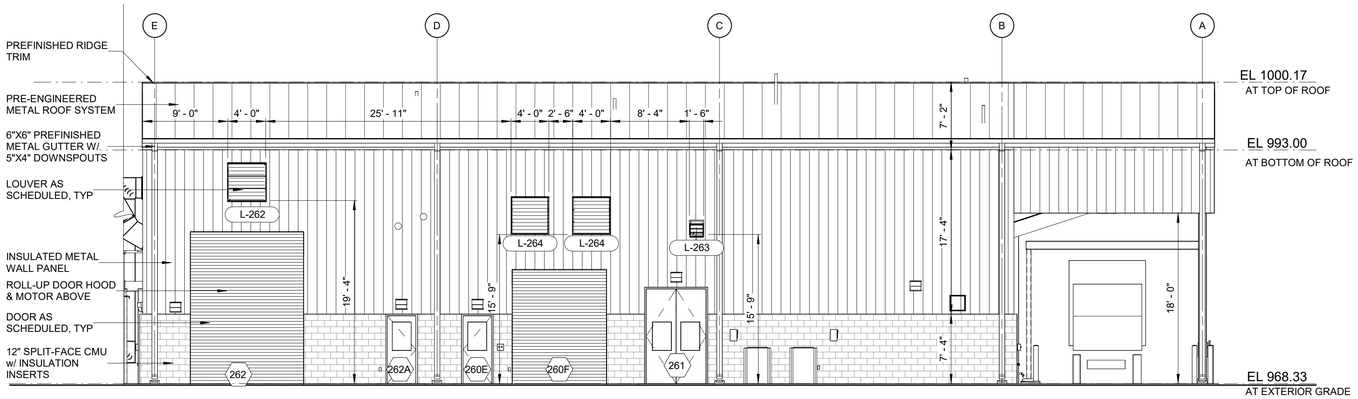
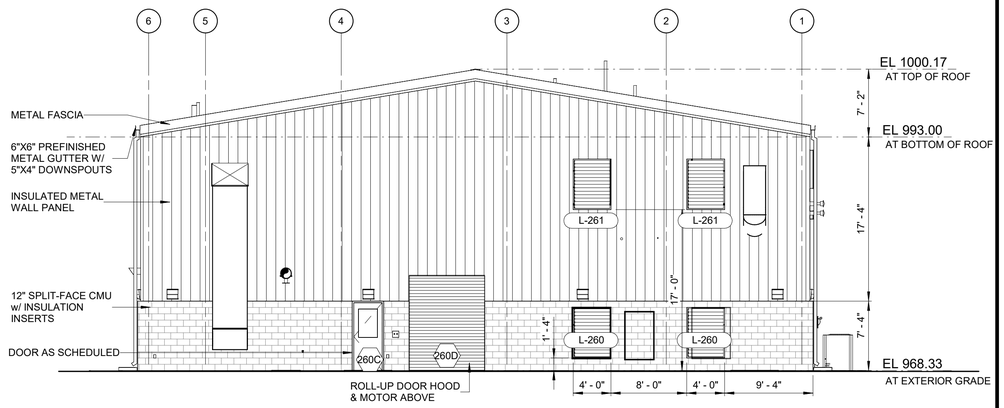
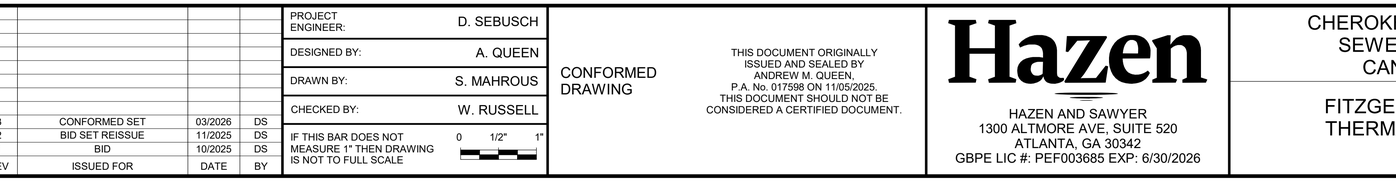


NORTH ELEVATION
1/8" = 1'-0"



EAST ELEVATION
1/8" = 1'-0"



SOUTH ELEVATION
1/8" = 1'-0"

WEST ELEVATION
1/8" = 1'-0"

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ARCHITECTURAL
ELEVATIONS

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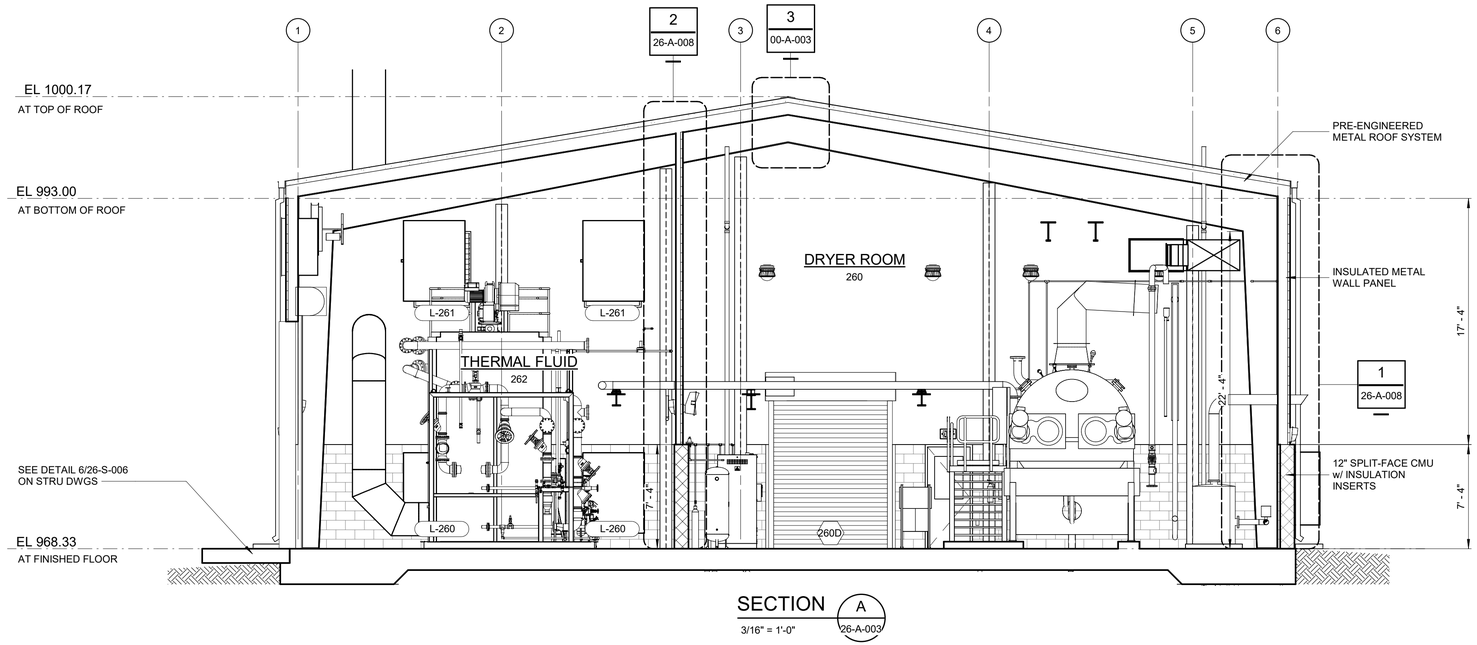
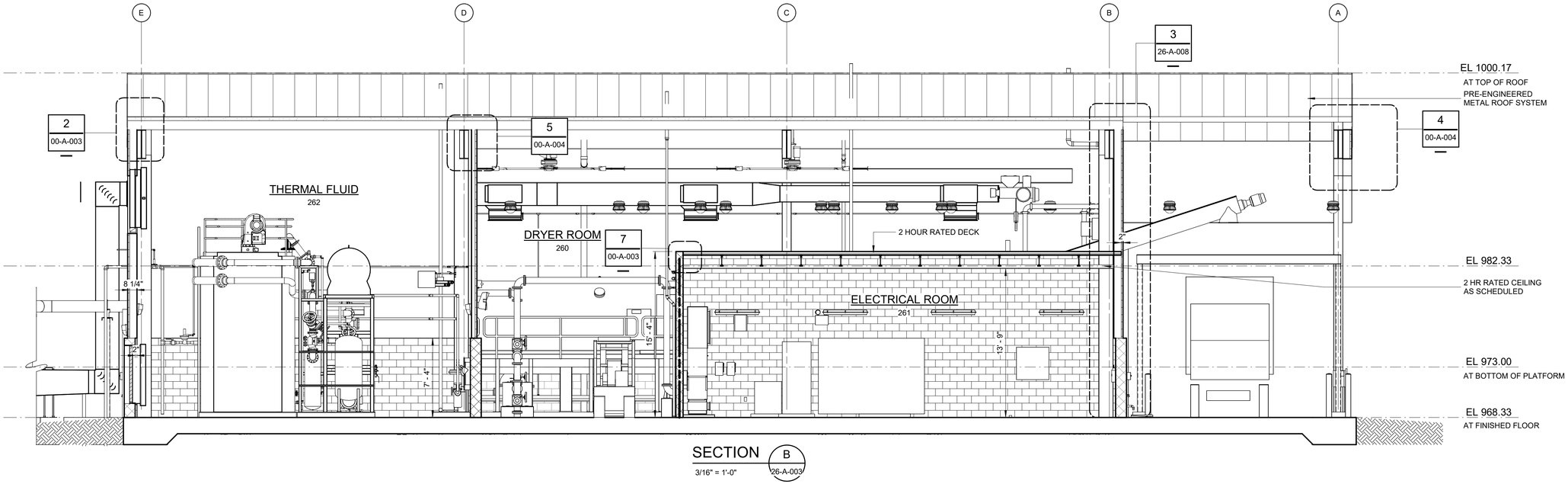


SECTION A
3/16" = 1'-0"
26-A-003



SECTION B
3/16" = 1'-0"
26-A-003

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FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY ARCHITECTURAL SECTIONS

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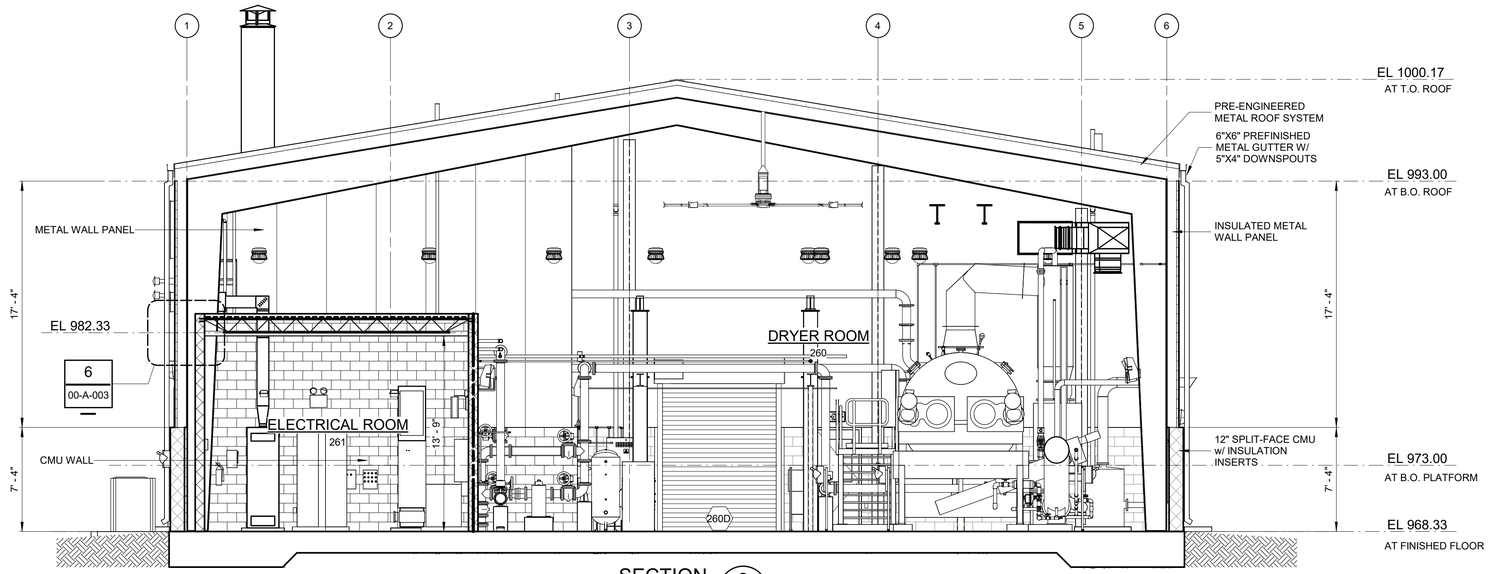
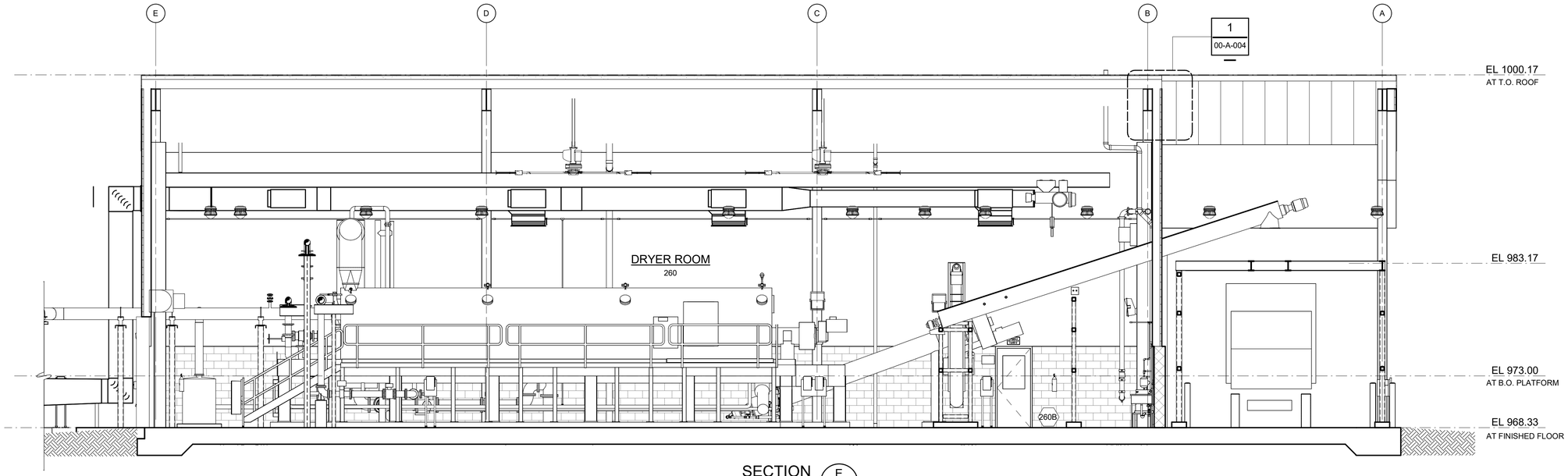


SECTION C
3/16" = 1'-0"
26-A-003



SECTION E
3/16" = 1'-0"
26-A-003

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3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	A. QUEEN
DRAWN BY:	S. MAHROUS
CHECKED BY:	W. RUSSELL

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

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Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY ARCHITECTURAL SECTIONS

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	26-A-007

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-A.rvt
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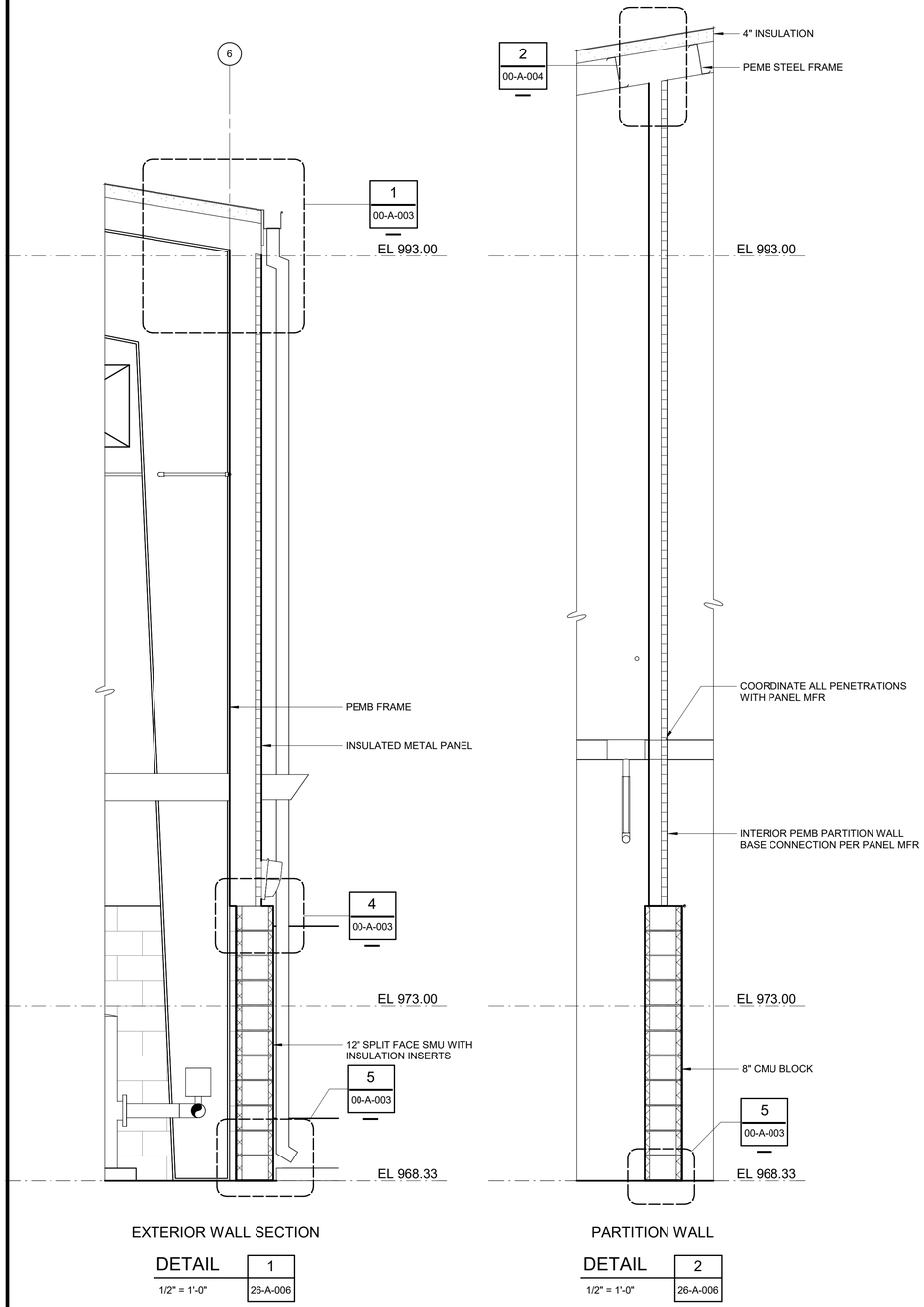
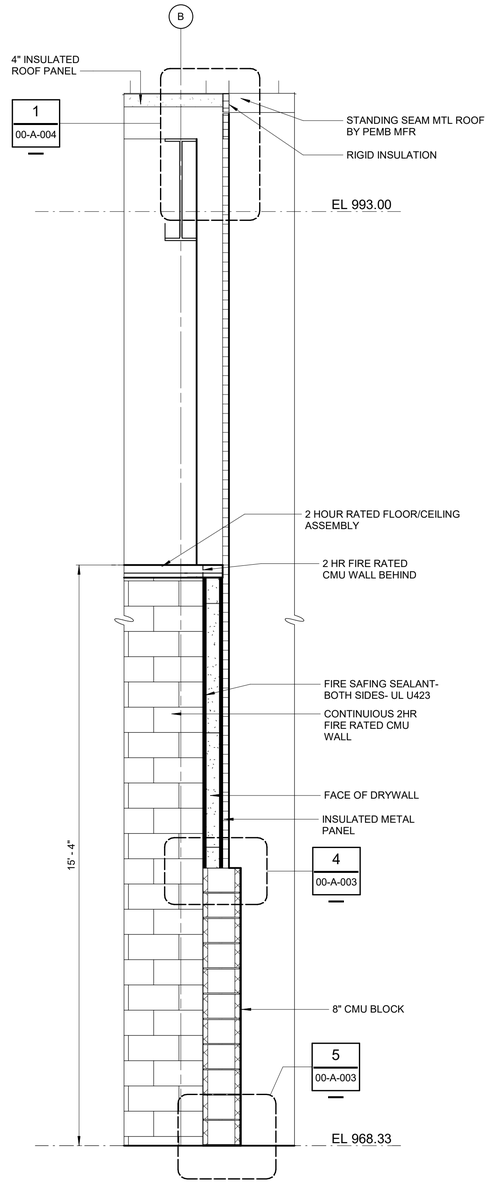


EXTERIOR WALL SECTION

DETAIL 1 — 1/2" = 1'-0" — 26-A-006

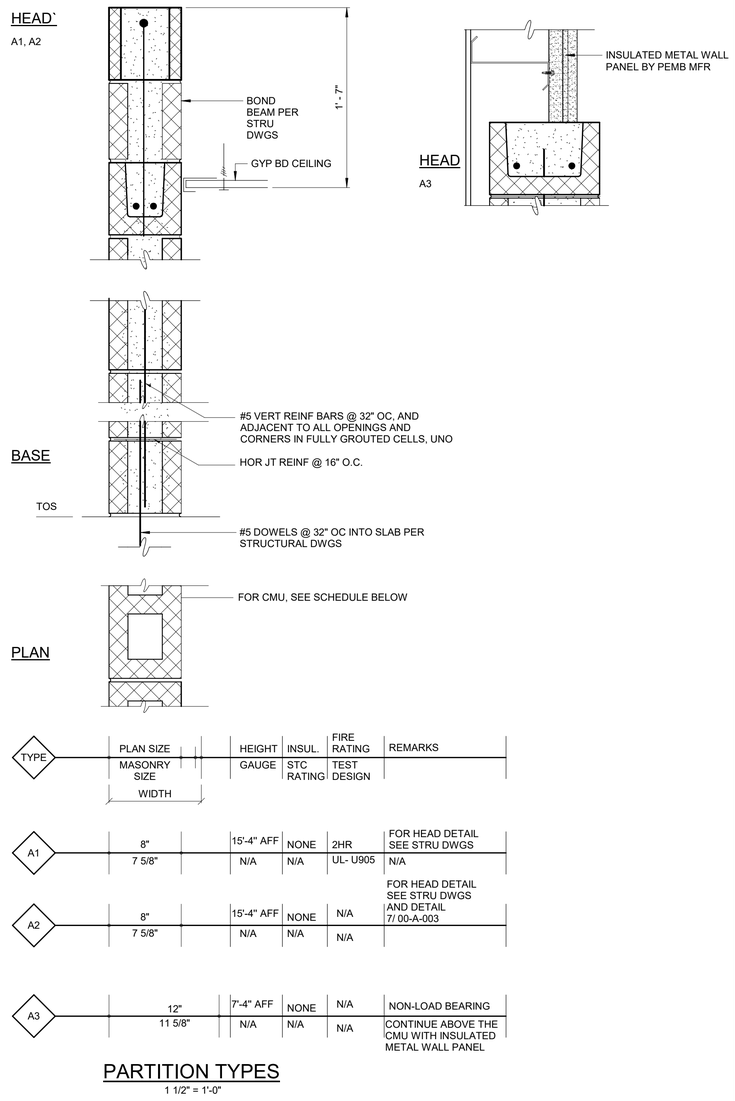
PARTITION WALL

DETAIL 2 — 1/2" = 1'-0" — 26-A-006



EXTERIOR PARITION 2

DETAIL 3 — 1/2" = 1'-0" — 26-A-006



TYPE	PLAN SIZE / MASONRY SIZE / WIDTH	HEIGHT / GAUGE	INSUL. / STC RATING	FIRE RATING / TEST DESIGN	REMARKS
A1	8" / 7 5/8"	15'-4" AFF / N/A	NONE / N/A	2HR / UL- U905	FOR HEAD DETAIL SEE STRU DWGS / N/A
A2	8" / 7 5/8"	15'-4" AFF / N/A	NONE / N/A	N/A / N/A	FOR HEAD DETAIL SEE STRU DWGS AND DETAIL 7/ 00-A-003
A3	12" / 11 5/8"	7'-4" AFF / N/A	NONE / N/A	N/A / N/A	NON-LOAD BEARING / CONTINUE ABOVE THE CMU WITH INSULATED METAL WALL PANEL

PARTITION TYPES

1 1/2" = 1'-0"

REV	ISSUED FOR	DATE	BY
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1	BID	10/2025	DS

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PROJECT ENGINEER:	D. SEBUSCH
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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY ARCHITECTURAL WALL SECTIONS

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	26-A-008

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ABBREVIATIONS

AC	ACETYLENE GAS
AD	AREA DRAIN
AR	ARGON GAS
AFF	ABOVE FINISHED FLOOR
AV	ACID VENT
AW	ACID WASTE
BFG	BELOW FINISHED GRADE
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
BLDG	BUILDING
CA	COMPRESSED AIR
CC	CENTER TO CENTER
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CO	CLEAN OUT
COL	COLUMN
CPLG	COUPLING
CF	CUBIC FEET
CLG	CEILING
CU	COPPER
CV	CHECK VALVE
CW	COLD WATER
DCH	DRY CREEK HEADWORKS
DFU	DRAINAGE FIXTURE UNIT
DI	DUCTILE IRON
DIA	DIAMETER
DN	DOWN TO FLOOR BELOW
DR	DRAIN
DWV	DRAIN, WASTE AND VENT
DROP	DROP IN EXISTING STORY
EL	ELEVATION
ES	EMERGENCY SHOWER
EW	EMERGENCY EYEWASH
FAI	FRESH AIR INLET
FD-1	FLOOR DRAIN TYPE 1
FLR	FLOOR
FT	FEET
FU	FIXTURE UNIT
FIN	FINISHED
FLG	FLANGE
FM	FACTORY MUTUAL
FS	FLOW SWITCH
GPM	GALLONS PER MINUTE
GAL	GALLON
GC	GENERAL CONTRACTOR
GCO	GRADE CLEAN OUT
HB	HOSE BIBB
HR	HOSE REEL
HW	HOT WATER
HWC	HOT WATER RECIRCULATION
HWH	HOT WATER HEATER
HPWW	HIGH PRESSURE WASH WATER
GV	GATE VALVE
HP	HORSEPOWER
IE	INVERT ELEVATION
IN	INCH
IW	INDIRECT WASTE
IWH	INSTANT WATER HEATER
IRI	INDUSTRIAL RISK INSURANCE
JST	JOIST
LAV1	LAVATORY TYPE 1
LB	POUND
MAX	MAXIMUM
MIN	MINIMUM
MR	MOP RECEPTOR
MSB	MOP SERVICE BASIN
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NG	NATURAL GAS
NO	NITROUS OXIDE GAS
NPW	NON POTABLE WATER
NRS	NON RISING STEM
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OI	OIL INTERSEPTOR
OSY	OUTSIDE SCREW AND YOKE
PIV	POST INDICATOR VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAGE
PVC	POLY VINYL CHLORIDE
PW	POTABLE WATER
RD1	ROOF DRAIN TYPE 1
RISE	RISE IN EXISTING STORY
RPM	REVOLUTIONS PER MINUTE
SS	SANITARY SEWER
SCH	SCHEDULE
SD	STORM DRAIN
SF	SQUARE FOOT
SPD	SUMP PUMP DISCHARGE
SS	SERVICE SINK
TYP	TYPICAL
TW	TEMPERED WATER
TWS	TEMPERED WATER SUPPLY
TWR	TEMPERED WATER RETURN
UON	UNLESS OTHERWISE NOTED
UP	UP TO FLOOR ABOVE
UL	UNDERWRITERS LABORATORY
UR	URINAL
V	VENT
VA	VALVE
VAC	VACUUM
VB	VACUUM BREAKER
VIV	VALVE IN VERTICAL
VTR	VENT THROUGH ROOF
W	WASTE
WC-1	WATER CLOSET TYPE 1
WCO	WALL CLEAN OUT
WFD	WATER FLOW DETECTOR
WFU	WATER FIXTURE UNIT
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTER
WFS	WATER FLOW SWITCH
WT	WEIGHT

GENERAL NOTES

1. WORK SHALL BE EXECUTED IN FULL COMPLIANCE WITH THE APPLICABLE PROVISIONS OF ALL LAWS, BY-LAWS, STATUTES, ORDINANCES, CODES, RULES, REGULATIONS, AND LAWFUL ORDERS OF PUBLIC AUTHORITIES BEARING ON THE PERFORMANCE AND EXECUTION OF THE WORK.
2. THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH BUT NOT LIMITED TO THE FOLLOWING CODES:
   A. 2018 GEORGIA STATE MINIMUM PLUMBING CODE.
   B. 2018 INTERNATIONAL FUEL GAS CODE.
   C. 2015 INTERNATIONAL ENERGY CONSERVATION CONSTRUCTION CODE.
   D. 2018 INTERNATIONAL FIRE CODE.
3. THE PIPING INDICATED ON THESE PLANS ARE DIAGRAMMATIC. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH OTHER TRADES AND SHALL PROVIDE ANY NECESSARY OFFSETS, REROUTING, TEES, ELBOWS, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
4. THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, AND INSPECTIONS.
5. CONTRACTOR SHALL COORDINATE ANY PLUMBING OR PIPING SYSTEM SHUT DOWN WITH THE OWNER 48 HOURS IN ADVANCE.
6. ALL PLUMBING AND PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY CODE REQUIREMENTS AND PER MANUFACTURERS RECOMMENDATIONS.
7. ALL PLUMBING FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS. CONTRACTOR SHALL MAINTAIN ON-SITE THE WRITTEN INSTRUCTIONS FOR THE INSPECTOR'S REVIEW.
8. ALL PIPING PENETRATIONS THROUGH WALLS, AND FLOORS SHALL BE SEALED TO EQUAL THE RATING OF THE WALL OR FLOOR.
9. THE PLUMBING SYSTEM SHALL BE TESTED AS REQUIRED BY CODE OR BY THE REQUIREMENTS OF THE LOCAL PLUMBING INSPECTOR.
10. THE ENTIRE DOMESTIC WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE LOCAL HEALTH DEPARTMENT REQUIREMENTS AND AS SPECIFIED.
11. ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS OR IN CHASES EXCEPT AS SPECIFICALLY NOTED, OR IN MECHANICAL ROOMS.
12. SEE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
13. CONTRACTOR SHALL PROVIDE AND INSTALL WHEN REQUIRED BY CODE AN AIR GAP SERVING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES OR APPARATUS.
14. SEE SANITARY WASTE AND VENT RISER SCHEMATIC DIAGRAM FOR WASTE AND VENT PIPE SIZES.
15. SEE DOMESTIC WATER RISER SCHEMATIC DIAGRAM FOR DOMESTIC WATER PIPE SIZES.
16. CONTRACTOR SHALL PROVIDE WATER STOPS AT EACH FIXTURE.
17. SIZE AND LOCATION OF CLEANOUTS (AS WELL AS ALL PLUMBING WORK) SHALL BE IN ACCORDANCE WITH THE PLUMBING CODE.
18. PATCH ALL SURFACES DISTURBED DURING THE CONSTRUCTION OF PLUMBING COMPONENTS TO MATCH ADJACENT SURFACES. WORK SHALL BE DONE ONLY BY WORKMAN SKILLED IN THE TRADE INVOLVED AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
19. ALL CONCEALED VALVES, WATER HAMMER ARRESTORS, CLEANOUTS, ETC., CONCEALED IN WALLS SHALL BE PROVIDED WITH AN ACCESS PANEL SUCH AS ZURN MODEL ZN-1460 OR APPROVED EQUAL.
20. ALL CONCEALED PIPING IN CHASE AREAS SHALL BE SUPPORTED WITH A PIPING SUPPORT SYSTEM SUCH AS SUMNER POSIFIX, STAKFIX AND CHANNEL OR APPROVED EQUAL.
21. PLUMBING WATER SUPPLY PIPING SHALL BE COPPER THROUGHOUT, UNLESS OTHERWISE NOTED.
22. DO NOT ROUTE PLUMBING PIPE OVER OR IN FRONT OF ELECTRICAL PANELS, BREAKERS, ETC.
23. MINIMUM SLOPE OF DRAIN PIPES SHALL BE 1/4" PER FOOT FOR PIPE SIZES EQUAL TO OR LESS THAN 2-1/2" AND 1/8" PER FOOT FOR 3" AND LARGER. PIPE INVERTS SHOWN ON DRAWINGS REPRESENT THE INVERT LOW POINT AT THE CONNECTION TO SITE PIPING.
24. PIPE HANGERS SHALL BE EPOXY COATED OR HOT DIPPED GALVANIZED.
25. ALL HOSE BIBS SHALL BE PROVIDED WITH VACUUM BREAKER BFP.
26. THE SYMBOLS AND ABBREVIATIONS LIST ON THIS SHEET IS A COMPREHENSIVE STANDARD GUIDE INTENDED FOR GENERAL USE ON ALL PROJECTS. THEREFORE, NOT ALL THE SYMBOLS AND ABBREVIATIONS CONTAINED IN THIS LIST ARE NECESSARILY USED ON THIS PARTICULAR PROJECT AND SHOULD BE USED FOR CLARIFICATION ONLY.
27. WASTE (W) SHOWN ON PLUMBING DRAWINGS SHALL CORRESPOND WITH SYSTEMS SHOWN ON CIVIL DRAWINGS AS SANITARY (SS). SEE CIVIL DRAWINGS FOR CORRELATING SYSTEMS.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ELECTRICAL RATINGS FROM CERTIFIED DRAWINGS OF EQUIPMENT AND SHALL MAKE ANY BRANCH CIRCUIT DISTRIBUTION MODIFICATION REQUIREMENTS WITHOUT ANY ADDITIONAL COST TO OWNER. THE CONTRACTOR SHALL SUBMIT A SCHEDULE OF SUCH CHANGES FOR APPROVAL BY ENGINEER.

DIAGRAMMATIC SYMBOLS

- BALL VALVE
- BALL CHECK VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- SWING CHECK VALVE
- CONTROL VALVE
- DIAPHRAGM VALVE
- ESEW/EW
- PUMP
- GATE VALVE
- GLOBE VALVE
- NEEDLE VALVE
- PINCH VALVE
- PLUG VALVE
- PRESSURE REDUCING VALVE
- PRESSURE RELIEF VALVE
- DRAIN (D)

PLAN ANNOTATIONS AND SYMBOLS

ANNOTATIONS

- FD-XXX-1 — QUANTITY DESIGNATION
  - BUILDING NUMBER (IF MULTIPLE)
  - EQUIPMENT DESIGNATION
- PIPE SIZE
- 3" V — PIPE SYSTEM
- XX'-XX" — CENTER LINE (CL) / INVERT (INV) FROM SEA LEVEL
- XX-XX-XX — INSTRUMENTATION

LINETYPES

- NEW ITEMS
- EXISTING ITEMS
- HIDDEN ITEMS
- DEMOLITION ITEMS
- CENTER LINE
- MATCH LINE
- INSULATED PIPE

SYMBOLS

- CLEANOUT
- FLOOR DRAIN (or)
- FLOW ARROW

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DESIGNED BY: T. NOLAN
DRAWN BY: P. GREER
CHECKED BY: T. MONAHAN

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1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

GENERAL
PLUMBING
LEGEND, ABBREVIATIONS AND GENERAL NOTES

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 26-P-001

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-H&P.rvt
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PLUMBING FIXTURES

TAG	FIXTURE	MANUFACTURER		CW (IN)	HW (IN)	TW (IN)	WASTE (IN)	VENT (IN)	ACCESSORIES	NOTES
		MAKE	MODEL							
CO	CLEANOUT - FLOOR	ZURN	Z-1400-AR	-	-	-	SEE PLAN	-	ACID RESITING EPOXY COATING	
ET	EXPANSION TANNK	AMES	ST-5C-DD	3/4	-	-	3	2	ANTIMICROBIAL POLYPROPYLENE LINER W/ ANTILEGIONELLA PROTECTION	
FD	FLOOR DRAIN	ZURN	Z-415-B	-	-	-	3	2	6" STRAINER, HEAVY DUTY CAST IRON GRATE	
FD2	FLOOR DRAIN	WATTS	FD-450-F	-	-	-	8	4	15"X15" DRAIN,NO HUB PVC OUTLET, HEAVY DUTY DUCTILE IRON GRATE	
FPH	WALL HYDRANT - FROSTPROOF	ZURN	Z1321	3/4	-	-	-	-	LENGTH TO MATCH WALL THICKNESS	
HB	HOSE BIBB	ZURN	Z1341-RC	3/4	-	-	-	-		
PRV	PRESSURE REDUCING VALVE	WATTS	LF25AUB-Z3	1-1/2	-	-	-	-	STRAINER	SET TO INDICATED DISCHARGE ON PLAN
RPZ	REDUCED PRESSURE ZONE ASSEMBLY	WATTS	LF909-FS	2	-	-	-	-	FLOOD SENSOR ON RELIEF VALVE, AIR GAP FITTING	
RPZ	REDUCED PRESSURE ZONE ASSEMBLY	WATTS	957BFG	6	-	-	-	-	FLOOD SENSOR ON RELIEF VALVE, AIR GAP FITTING	
TMV2	THERMOSTATIC MIXING VALVE - POINT OF USE	LAWLER	570	1/2	1/2	-	-	-	103° F SETPOINT	
TS	TRAP SEAL	ZURN	Z1072	-	-	-	SEE PLAN	-		
US	UTILITY SINK	JUST	SB136-2-J	1/2	1/2	-	1-1/2	1-1/2	CHICAGO FAUCET 540-LDL9E1 FAUCET, JUST J35-SF DRAIN W/ TAILPIECE, P-TRAP, (2) McGUIRE LBFV165 ANGLE STOPS AND SUPPLIES	
WCO	WALL CLEANOUT	ZURN	Z1445	-	-	-	SEE PLAN	-		

NOTES:
1. REFER TO SPECIFICATION 22 40 00 FOR ADDITIONAL REQUIREMENTS.

ELECTRIC WATER HEATER

TAG	AREA SERVED	MANUFACTURER		SERVICE	TYPE	CAPACITY (GALLONS)	ELEMENT (KW)	TEMP RISE (F)	1ST HR RECOVERY (GALLONS)	RECOVERY (GPH)	SET TEMP (F)	ELECTRICAL			WEIGHT (LBS)	NOTES
		MAKE	MODEL									VOLTAGE	PHASE	HZ		
WH	DRYER	STATE IND.	ES620SOMTK	POTABLE	STORAGE	20	2.5	60	11	13	120	120	1	60	68	1, 2

NOTES:
1. REFER TO SPECIFICATION 22 33 00 FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE A HOLDRITE 40-S-22-A STAND OR EQUAL.

NATURAL GAS DEMAND

TAG	DESCRIPTION	INPUT LOAD (CFH)	BRANCH SIZE (IN)	REMARKS
DRYER	THERMAL DRYER	12,750	2-1/2"	1,2,3
MAU-TDF-1	MAKE-UP AIR UNIT	1,197	1-1/2"	1,2,3
GUH-TDF-1	UNIT HEATER	55	1/2"	1,2,3
GUH-TDF-2	UNIT HEATER	55	1/2"	1,2,3
TOTAL CONNECTED LOAD		14,057	3"	

NOTES:
1. REFER TO SPECIFICATION 22 10 14 FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE A PRESSURE REGULATOR TO REDUCE PRESSURE FROM 2 PSIG TO 11" W.C. AT EQUIPMENT.
3. MEDIUM GAS PIPING SIZED PER IFGC TABLE 402.4(5) 2 PSIG WITH 1 PSIG LOSS FOR 150 FEET EQUIVELENT.
4. LOW PRESSURE GAS PIPING SIZED PER IFGC TABLE 402.4(2) LESS THAN 2 PSIG WITH 0,5" W.C. LOSS FOR 150 FEET EQUIVELENT.

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DRAWN BY: P. GREER
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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

GENERAL PLUMBING SCHEDULES

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 26-P-002

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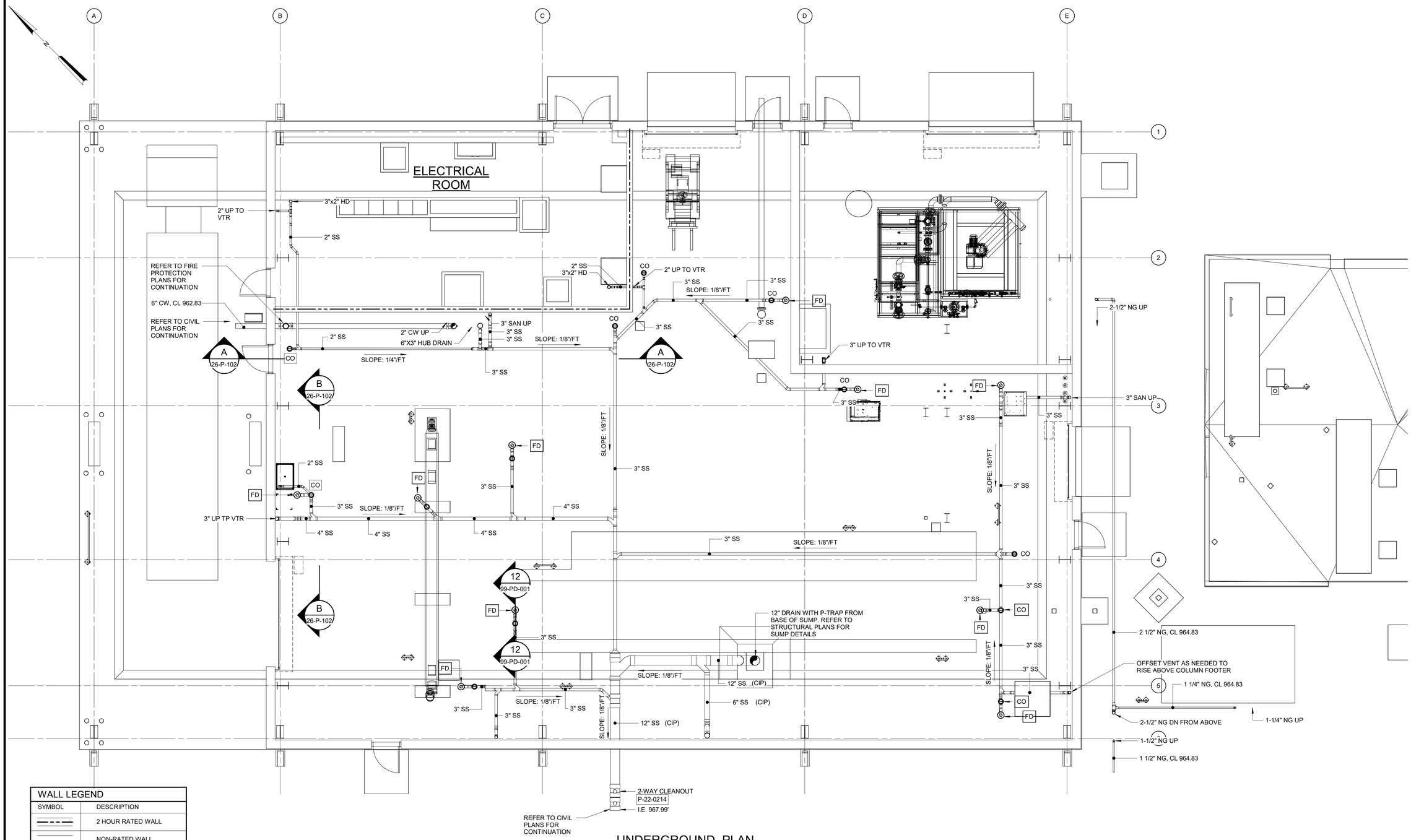

UNDERGROUND PLAN

3/16" = 1'-0"

WALL LEGEND	
SYMBOL	DESCRIPTION
	2 HOUR RATED WALL
	NON-RATED WALL

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CANTON, GEORGIA

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THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
PLUMBING
UNDERGROUND PLAN

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	26-P-100

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NOTES:

1. REFER TO SHEET P-100 FOR UNDERGROUND PIPING LAYOUT AND SIZING.
2. NATURAL GAS REGULATOR SIZED FOR 40 PSI INLET, SET TO 2 PSIG DISCHARGE RATED FOR 5,600.7 CFH.
3. NATURAL GAS REGULATOR SIZED FOR 40 PSIG INLET, SET TO 11" WC DISCHARGE RATED FOR 830 CFH.
4. NATURAL GAS REGULATOR SIZED FOR 40 PSIG INLET, SET TO 11" WC DISCHARGE RATED FOR 110 CFH.
5. NATURAL GAS REGULATOR SIZED FOR 40 PSIG INLET, SET TO 11" WC DISCHARGE RATED FOR 4,600.7 CFH.
6. ROUTE REGULATOR RELIEF VENT TO EXTERIOR. MAINTAIN DISCHARGE 10'-0" MIN ABOVE FINISHED GRADE.
7. COORDINATE ROUTING OF PIPING MOUNTED TO WALLS WITH STRUCTURAL STEEL. OFFSET AS NEEDED TO ROUTE AROUND COLUMNS.
8. COORDINATE ROUTING OF PIPING WITH VENT PIPING. OFFSET AS NEEDED TO ROUTE AROUND VENTS.
9. COORDINATE ROUTING OF VENT PIPING. OFFSET AS NEEDED TO ROUTE AROUND FIRE SPRINKLER PIPING.
10. ROUTE CONDENSATE DRAIN FOR UNIT HEATER AND VENT TO SANITARY HUB DRAIN.

N

ELECTRICAL ROOM

THERMAL FLUID

DRYER ROOM

P-22-0220
3"x2" HD
3" VTR
2" V

P-22-0220
3"x2" HD
2" V UP TO 3" VTR
SEE NOTE 9.

P-22-0220
HB
REFER TO MECHANICAL PLANS FOR CONTINUATION OF NPW
3" V UP TO 3" VTR
6"x3" HD

P-22-0107

3/4" NG, CL 982.25

3/4" NG, CL 981.63
P-22-0107

1" NG, CL 982.25

SEE NOTE 6.
3" NG, CL 975.25
SEE NOTE 5.
2 1/2" NG, CL 982.25
2 1/2" NG, CL 982.25
1" NG, CL 982.25
SEE NOTE 4.
SEE NOTE 6.

A
26-P-102

B
26-P-102

FPH
4" VTR
HB
US
ET
FD
CO
WH
P-22-0404
3" VTR
SEE NOTE 9.
4" V

P-22-0214
TYP.
P-22-0105
TYP.

3" VTR
P-22-0211
3" V

3" VTR
P-22-0211
3" V

6" VTR
P-22-0211
6" V
HB

SEE NOTE 8.
SEE NOTE 7. TYPICAL.
3/4" PW, CL 987.17

HB
FPH
3/4" PW, CL 987.17

3" NG, CL 970.83
SEE NOTE 2.
1 1/2" NG, CL 970.83
P-22-0107
P-22-0107
1 1/4" NG, CL 971.58
SEE NOTE 3.

WALL LEGEND	
SYMBOL	DESCRIPTION
	2 HOUR RATED WALL
	NON-RATED WALL

TOP PLAN
3/16" = 1'-0"

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: T. NOLAN
DRAWN BY: P. GREER
CHECKED BY: T. MONAHAN

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

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1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
PLUMBING
TOP PLAN

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 26-P-101

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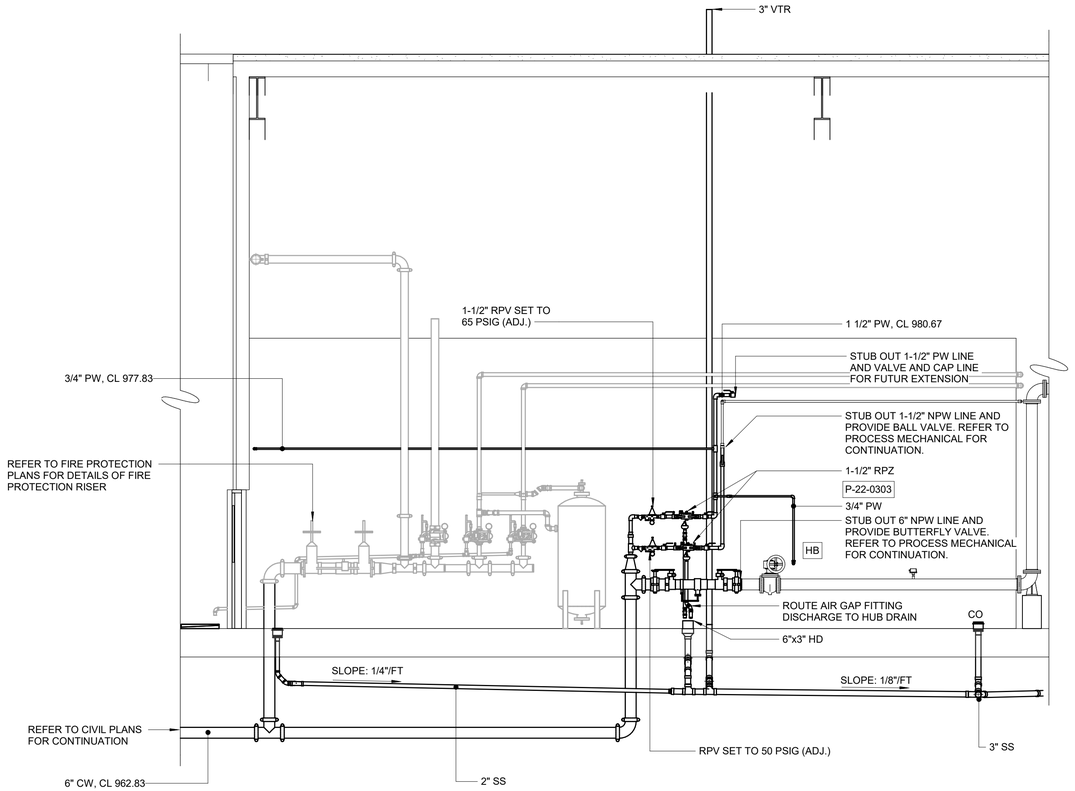
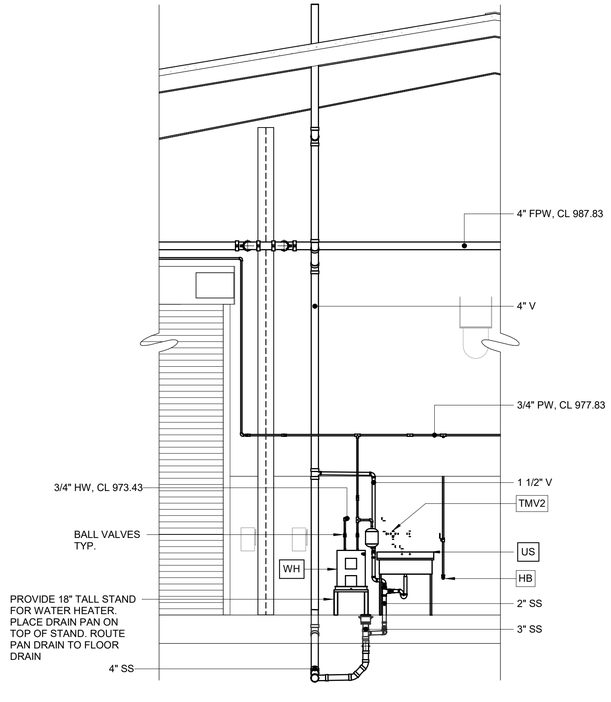


SECTION A
1/4" = 1'-0" 26-P-100



SECTION B
1/4" = 1'-0" 26-P-100

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3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

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DESIGNED BY:	T. NOLAN
DRAWN BY:	P. GREER
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CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
PLUMBING
SECTIONS

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	26-P-102

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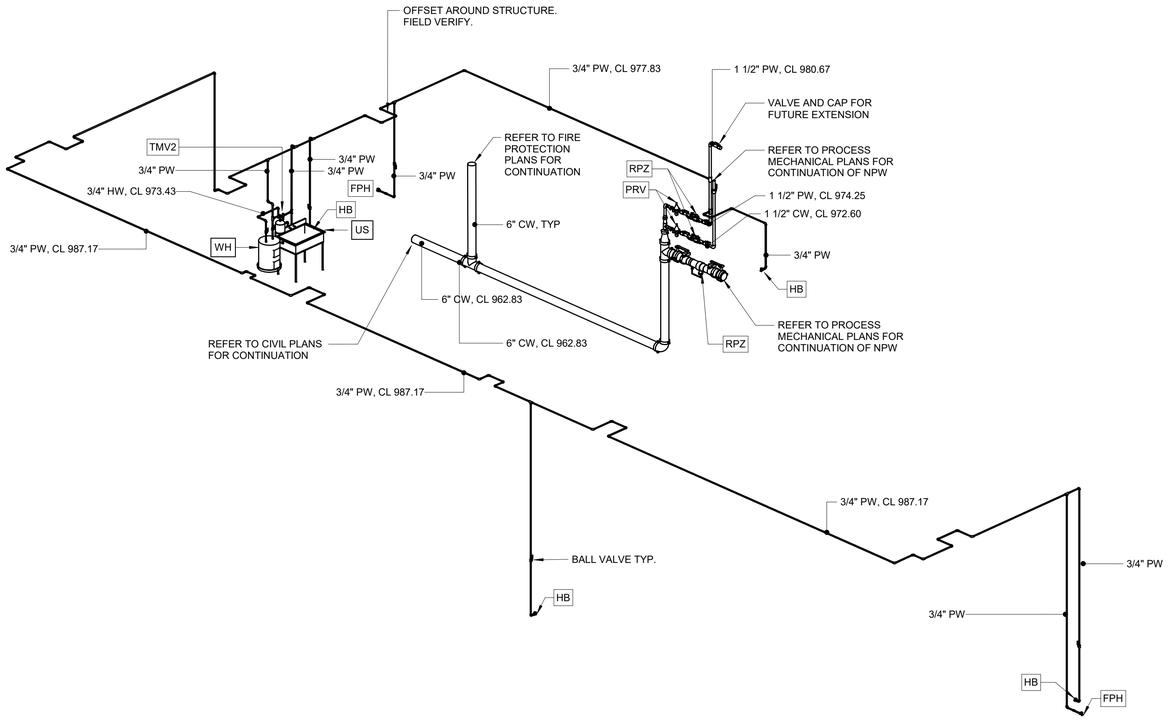
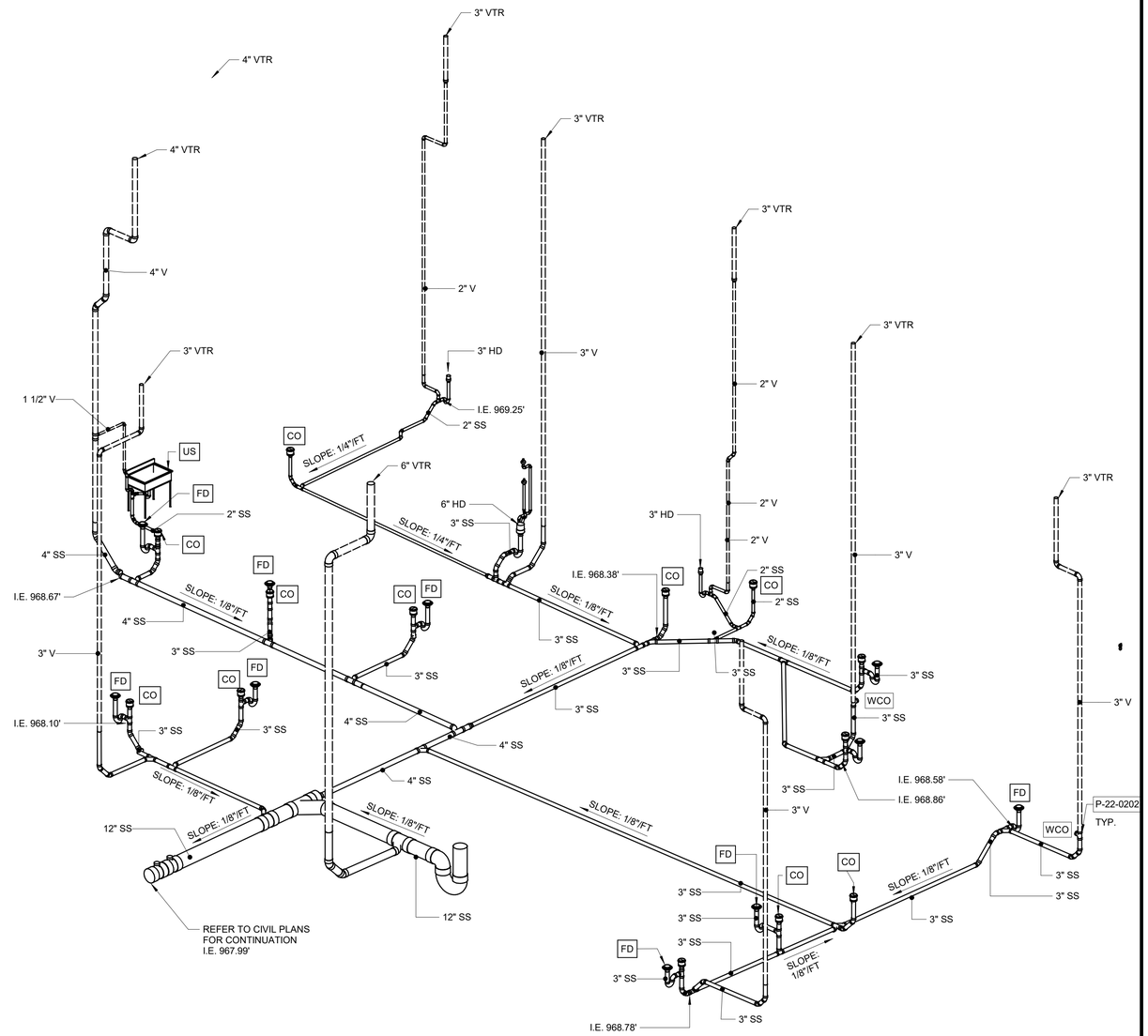


POTABLE WATER RISER



WASTE AND VENT RISER

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	T. NOLAN
DRAWN BY:	P. GREER
CHECKED BY:	T. MONAHAN
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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
PLUMBING
RISER DIAGRAMS

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	26-P-103

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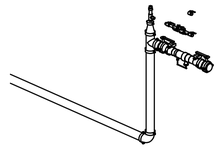

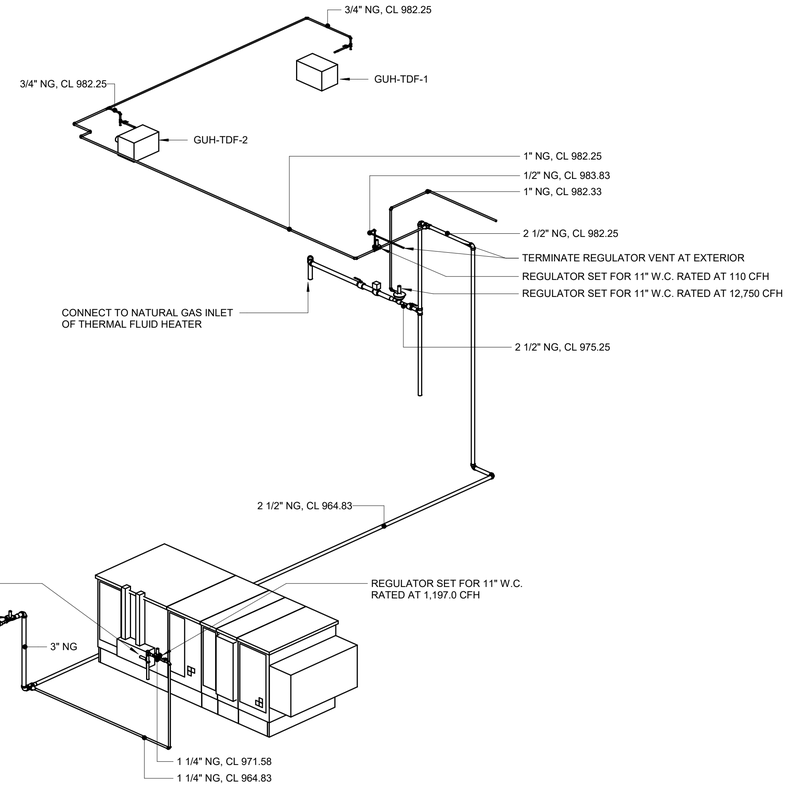

NATURAL GAS RISER

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: T. NOLAN
DRAWN BY: P. GREER
CHECKED BY: T. MONAHAN
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THERMAL DRYER FACILITY
PLUMBING
RISER DIAGRAMS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 26-P-104

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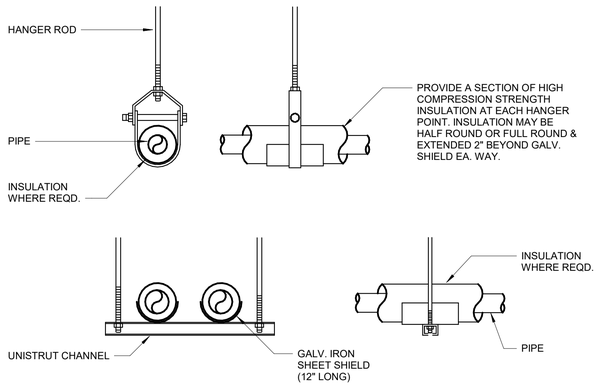
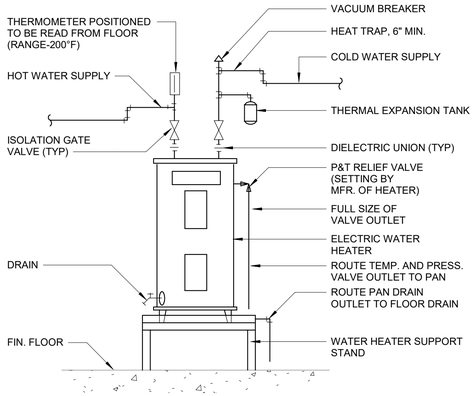


NOTES

1. ATTACH SUPPORTS FOR ALL PIPING SUSPENDED FROM THE STEEL STRUCTURE TO THE TOP CORD OF JOISTS OR BEAMS.
2. PROVIDE COPPER OR PLASTIC COATED HANGERS FOR NON-INSULATED COPPER PIPE.

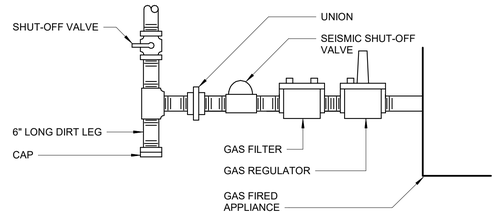
PIPE HANGERS

P-22-0807



ELECTRIC WATER HEATER

P-22-0404

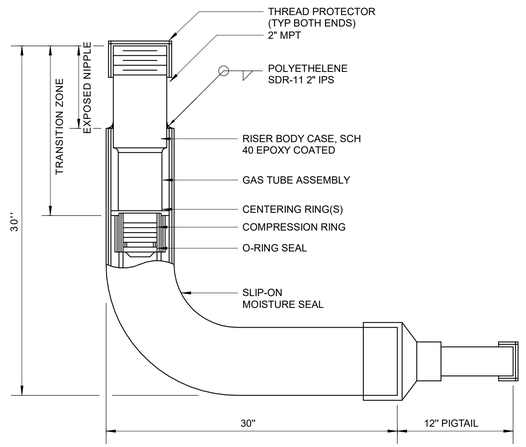


NOTES:

1. SEISMIC SHUT-OFF VALVES ARE OPTIONAL AND ARE NOT REQUIRED FOR NONESSENTIAL FACILITIES LOCATED WITHIN SEISMIC ZONES 1 OR 2.

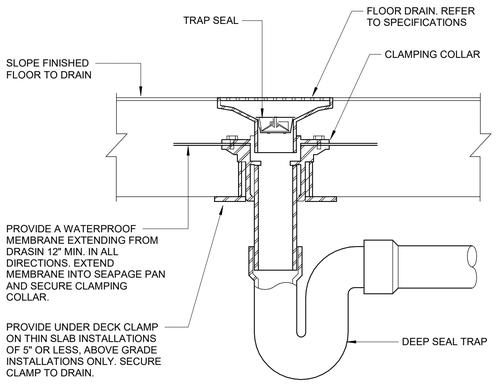
GAS FIRED APPLIANCE CONNECTION

P-22-0107



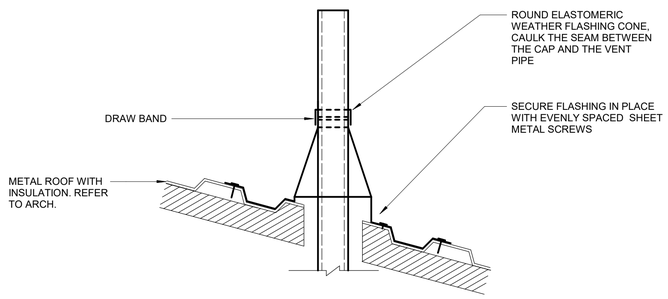
ANODELESS RISER

P-22-0104



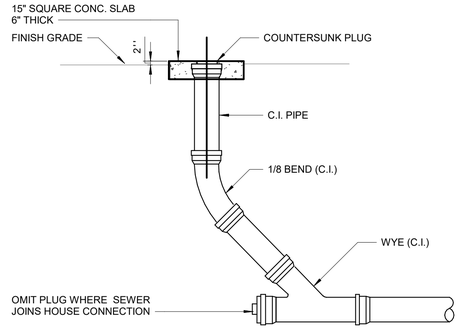
FLOOR DRAIN WITH TRAP SEAL

P-22-0214



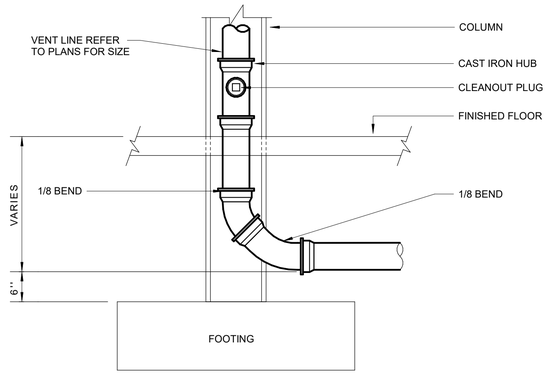
VENT THRU ROOF

P-22-0211



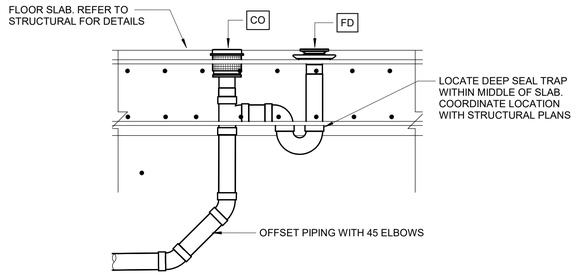
CLEANOUT TO GRADE

P-22-0204



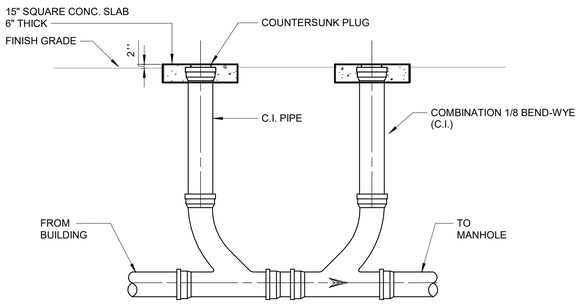
WALLCLEANOUT

P-22-0202



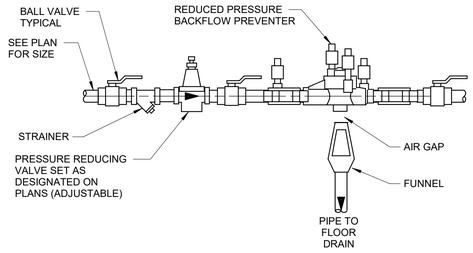
FLOOR DRAIN WITH CLEANOUT

P-22-0105



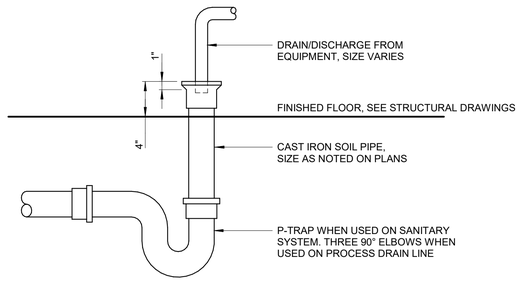
TWO-WAY CLEANOUT TO GRADE

P-22-0214



REDUCED PRESSURE BACKFLOW PREVENTER

P-22-0303



HUB DRAIN

P-22-0220

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

PLUMBING STANDARD DETAILS
PLUMBING
DETAILS

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	99-PD-001

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SYMBOLS

SENSOR ABBREVIATIONS

T	THERMOSTAT/TEMPERATURE SWITCH
FS	FLOW SENSOR
AMD	AUTOMATIC MOTORIZED DAMPER
GD	GRAVITY DAMPER
MD	MANUAL DAMPER
VD	VOLUME DAMPER
FD	FIRE DAMPER
FSD	FIRE/SMOKE DAMPER

EQUIPMENT - AIRFLOW DIAGRAMS

DUCT MOUNTED SENSOR

ROOM/SPACE SENSOR

XX-BLDG-QTY

ROOF EXHAUST FAN

XX-BLDG-QTY

INLINE FAN

XX-BLDG-QTY

WALL FAN

ROOF AIR INTAKE/RELIEF

DAMPER

LOUVER

FILTER

UNIT HEATER

AIR HANDLING UNIT

DUCT SYSTEMS

SUPPLY AIR DUCT SECTION-UP

RETURN AIR DUCT

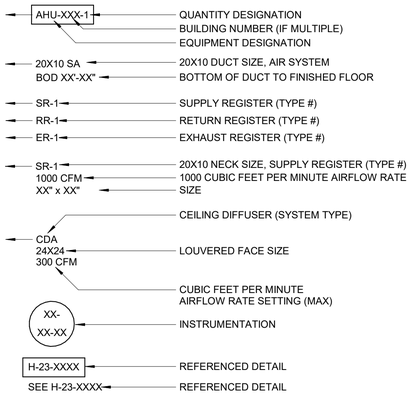
EXHAUST AIR DUCT

FLUE

INFILTRATION/EXFILTRATION

AIRFLOW

ANNOTATIONS



DAMPERS

AUTOMATED MOTORIZED DAMPER

BACKDRAFT DAMPER

FIRE DAMPER

FIRE/SMOKE DAMPER

MANUAL DAMPER

VOLUME DAMPER

ABBREVIATIONS

AI	ANALOG INPUT
AC	AIR CONDITIONING, AIR CONDITIONING UNIT
ACCU	AIR COOLED CONDENSING UNIT
ACC	AIR COOLED CONDENSER
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHU	AIR HANDLING UNIT
AMD	AUTOMATIC MOTORIZED DAMPER
AO	ANALOG OUTPUT
APD	AIR PRESSURE DROP
ATC	AUTOMATIC TEMPERATURE CONTROL
ATU	AIR TERMINAL UNIT
B	BOILER
BD	GRAVITY BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOR	BOTTOM OF REGISTER
BOT	BOTTOM
CB	CIRCUIT BREAKER
CFM	CUBIC FEET OF STANDARD AIR PER MINUTE
CH	CABINET UNIT HEATER
CLG	CEILING
CONN	CONNECTION
CWS	CHILLED WATER SUPPLY
CWR	CHILLED WATER RETURN
DI	DIGITAL INPUT
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROL
DX	DIRECT EXPANSION REFRIGERANT
DIA	DIAMETER
DM	DAMPER MOTOR
DN	DOWN
DO	DIGITAL OUTPUT
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EAT	ENTERING AIR TEMPERATURE
EDH	ELECTRIC DUCT HEATER
EG	EXHAUST GRILLE
EUH	ELECTRIC UNIT HEATER
EF	EXHAUST FAN
EL/ELEV	ELEVATION
ES	ENTHALPY SENSOR
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
FA	FREE AREA
FC	FORWARD CURVED OR FAN COIL
FD	FIRE DAMPER WITH ACCESS DOOR
FLA	FULL LOAD AMPS
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FPM	FEET PER MINUTE
FTR	FINNED TUBE RADIATION
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HG	HOT GAS
HP	HORSEPOWER OR HEAT PUMP
HV	HEATING AND VENTILATING UNIT
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
IDEC	INDIRECT EVAPORATIVE COOLING
IDH	INLINE DUCT HEATER
IN. WG	INCHES OF WATER GAGE
KW	KILOWATT (1,000 WATTS)
L	LOUVER
LAT	LEAVING AIR TEMPERATURE
LD	LINEAR DIFFUSER
LF	LINEAR FEET
LR	LINEAR RETURN
LWT	LEAVING WATER TEMPERATURE
MAU	MAKEUP AIR UNIT
MBH	1,000 BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MD	MANUAL DAMPER
MTD	MOUNTED
NC	NORMALLY CLOSED, NOISE CRITERIA
NK	NECK
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
ORP	OXYGEN REDUCTION POTENTIAL
P	PUMP
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PF	PROPELLER FAN
PH, ∅	PHASE
PPU	POSITIVE PRESSURIZATION UNIT
PROP	PROPELLER
PRV	PRESSURE REGULATING VALVE
PTAC	PACKAGED TERMINAL AIR CONDITIONING UNIT
PS	PRESSURE SENSOR
PW	POTABLE WATER
RA	RETURN AIR
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
RLA	RATED LINE AMPS
RS	REFRIGERANT SUCTION
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SF	SUPPLY AIR FAN
SG	SUPPLY GRILLE
SHR	SENSIBLE HEAT RATIO
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SS	STAINLESS STEEL
SV	SOLENOID VALVE
TEMP	TEMPERATURE
TF	TRANSFER FAN
TH	TOTAL HEAT
TOD	TOP OF DUCT
TOU	TOP OF UNIT
TOR	TOP OF REGISTER
TSP	TOTAL STATIC PRESSURE
TS	TEMPERATURE SENSOR
TYP	TYPICAL
UH	UNIT HEATER
V	VOLTS
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VEL	VELOCITY
VH	HEATING CONTROL VALVE
VC	COOLING CONTROL VALVE
VFD	VARIABLE FREQUENCY DRIVE
VVT	VARIABLE VOLUME AND VARIABLE TEMPERATURE
WPD	WATER PRESSURE DROP
W/	WITH
WB	WET BULB
WC	WATER COLUMN

LINETYPES

GENERAL NOTES

1. THE SYMBOLS AND ABBREVIATIONS LIST ON THIS SHEET IS A COMPREHENSIVE STANDARD GUIDE INTENDED FOR GENERAL USE ON ALL PROJECTS. THEREFORE, NOT ALL THE SYMBOLS AND ABBREVIATIONS CONTAINED IN THIS LIST ARE NECESSARILY USED ON THIS PARTICULAR PROJECT AND SHOULD BE USED FOR CLARIFICATION ONLY.
2. ALL DUCT DIMENSIONS ARE CLEAR DIMENSIONS TO INSIDE OF DUCT. DIMENSIONS TO DUCTS FROM FLOOR OR WALL SHALL BE TO THE OUTSIDE OF DUCT/INSULATION. WHERE INTERNAL INSULATION IS REQUIRED THE DUCT SIZE SHALL BE INCREASED TO GIVE CLEAR INSIDE DIMENSIONS AS NOTED ON THE DRAWINGS.
3. EQUIPMENT SIZES AND LOCATIONS ARE APPROXIMATE. ACTUAL DIMENSIONS TO BE DETERMINED BY EQUIPMENT FURNISHED. COORDINATE HVAC WORK WTIH THE WORK OF ALL OTHER TRADES.
4. FINAL OPENING DIMENSIONS, CONCRETE PAD SIZES, AND LOCATIONS MUST BE COORDINATED DURING CONSTRUCTION WITH APPROVED EQUIPMENT.
5. FINAL SIZES OF FLOOR OPENINGS, DUCT PLENUMS, TRANSITIONS AND PIPING CONNECTIONS TO ALL EQUIPMENT SHALL BE DETERMINED BY EQUIPMENT FURNISHED.
6. THE DRAWINGS ARE SCHEMATIC IN NATURE AND SHOW INTENDED GENERAL LOCATION OF HVAC EQUIPMENT AND SYSTEMS. NOT ALL OFFSETS AND REQUIRED FITTINGS FOR ACTUAL FIELD INSTALLATION ARE INTENDED TO BE SHOWN FOR INSTALLATION OF SYSTEMS IN THE SPACE AVAILABLE IN CONSIDERATION OF WORK OF OTHER TRADES AND FIELD CONDITIONS. CONTRACTOR SHALL PROVIDE ADDITIONAL OFFSETS IN DUCTWORK AND PIPING AS REQUIRED TO AVOID SUCH INTERFERENCES OR FIELD CONDITIONS AT NO ADDITIONAL COST TO THE ORIGINAL CONTRACT AMOUNT.
7. FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED OR WIDTH OF DUCT IN PLAN VIEW.
8. COORDINATE THE REQUIREMENTS FOR HVAC OPENINGS AND SLEEVES IN BUILDING ELEMENTS WITH THE GC.
9. CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 099000 FOR PAINTING REQUIREMENTS UNLESS OTHERWISE NOTED.
10. REFER TO ELECTRICAL DRAWINGS OR SPECIFICATIONS FOR INTERLOCKING WIRING REQUIREMENTS.
11. CONTRACTOR SHALL COORDINATE DUCTWORK INSTALLATION WITH OTHER TRADES.
12. PROVIDE ADEQUATE SUPPORT, PER THE MANUFACTURER'S RECOMMENDATIONS, FOR ALL HVAC EQUIPMENT.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ELECTRICAL RATINGS FROM CERTIFIED DRAWINGS OF EQUIPMENT AND SHALL MAKE ANY BRANCH CIRCUIT DISTRIBUTION MODIFICATION REQUIREMENTS WITHOUT ANY ADDITIONAL COST TO OWNER. THE CONTRACTOR SHALL SUBMIT A SCHEDULE OF SUCH CHANGES FOR APPROVAL BY ENGINEER.
14. WHEREVER THE REQUIREMENTS AND REGULATIONS OF STATE, FEDERAL AND LOCAL AUTHORITIES HAVING JURISDICTION DIFFER FROM THE DRAWINGS OR SPECIFICATIONS, THEY SHALL TAKE PRECEDENCE AND SHALL BE MADE PART OF THE CONTRACT (EXCEPT WHERE THE DRAWINGS OR SPECIFICATIONS ARE MORE STRINGENT).
15. THE CONTRACTOR SHALL PROVIDE AND INSTALL FIRE AND SMOKE RATED DAMPERS IN HVAC DUCTS WHICH PENETRATE FIRE RATED BUILDING ASSEMBLIES AS SHOWN ON ARCHITECTURAL DRAWINGS.
16. DUCTWORK AND PLENUM TO LOUVERS SHALL BE CONNECTED TO FRAMED OPENINGS AND, SEALED AIRTIGHT AND WEATHER RESISTANT.
17. THERMOSTATS, SENSORS, AND/OR CONTROL PANEL LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE COORDINATED TO SUIT FIELD CONDITIONS.
18. INSTALL WALL MTD SENSORS, CONTROLS AND THERMOSTATS 5'-0" AFF UNLESS OTHERWISE NOTED. ALIGN WITH OTHER NEARBY ITEMS SUCH AS LIGHT SWITCHES. DO NOT INSTALL CLOSER THAN 6-INCHES FROM EDGE OF DOOR FRAME OR CORNER OF WALL AS SHOWN ON ARCH PLANS. WHERE CONFLICTS MAY OCCUR WITH ITEMS SUCH AS LIGHT SWITCHES, MOUNT THE SENSOR OR CONTROL DEVICE 4'-6" AFF CENTERED ABOVE THE LIGHT SWITCH.
19. PROVIDE ADEQUATE MEANS OF ACCESS CLEARANCE FOR ALL HVAC/MECHANICAL EQUIPMENT AND SYSTEMS THAT REQUIRE ACCESS FOR PROPER OPERATION, MAINTENANCE AND REPAIR PER RECOMMENDED MANUFACTURER CLEARANCES. PROVIDE ACCESS DOORS WHERE NECESSARY IN FINISHED WALLS OR DRYWALL CEILINGS FOR ACCESS TO VALVES, DAMPERS, OR CONTROL DEVICES.
20. COORDINATE THE REQUIREMENTS OF HVAC HANGERS AND SUPPORTS W/ OTHER PRIME CONTRACTORS PROVIDING STRUCTURAL AND/OR ARCHITECTURAL BUILDING ELEMENTS WHICH HVAC SUPPORTS SHALL INTERFACE.
21. HVAC CONTRACTOR SHALL PROVIDE ALL FIRESTOPPING AND PIPE SLEEVES FOR ALL PIPE AND DUCT PENETRATIONS THRU FIRE RATED BUILDING ASSEMBLIES.
22. CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, AND INSPECTIONS.
23. FOR ADDITIONAL REQUIREMENTS REFER TO SPECIFICATIONS.
24. WORK SHALL BE EXECUTED IN FULL COMPLIANCE WITH THE APPLICABLE PROVISIONS OF ALL LAWS, BY-LAWS, STATUTES, ORDINANCES, CODES, RULES, REGULATIONS, AND LAWFUL ORDERS OF PUBLIC AUTHORITIES BEARING ON THE PERFORMANCE AND EXECUTION OF THE WORK.
25. THE ENTIRE HVAC SYSTEM SHALL BE IN ACCORDANCE WITH BUT NOT LIMITED TO THE FOLLOWING CODES:
    A. 2018 INTERNATIONAL MECHANICAL CODE WITH GEORGIA AMMENDMENTS.
    B. 2018 INTERNATIONAL FUEL GAS CODE WITH GEORGIA AMMENDMENTS.
    C. 2015 INTERNATIONAL ENERGY CONSERVATION CONSTRUCTION CODE WITH GEORGIA AMMENDMENTS.
    D. 2018 INTERNATIONAL FIRE CODE.
26. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO ENSURE ALL AIR CONDITIONING EQUIPMENT, DUCTWORK, PIPING AND RELATED APPURTENANCES ARE NOT LOCATED ABOVE ELECTRICAL EQUIPMENT.

VENTING FOR CATEGORY II, III, IV GAS APPLIANCES

1. VENT PRODUCTS SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL FUEL GAS CODE, NFPA-54, WHERE APPLICABLE AND SHALL COMPLY WITH AND BE LISTED TO UL 1736 AND ULC-636, STANDARD FOR VENTING SYSTEMS FOR GAS-BURNING APPLIANCES, CATEGORY II, III, AND IV.
2. DOUBLE-WALL (SINGLE WALL IS AN ACCEPTABLE ALTERNATIVE), FACTORY-BUILT TYPE FOR USE ON CONDENSING APPLIANCES OR PRESSURIZED VENTING SYSTEMS SERVIND CATEGORY II, III OR IV APPLIANCES OR AS SPECIFIED BY THE EQUIPMENT MANUFACTURER.
3. MAXIMUM TEMPERATURE SHALL NOT EXCEED 550°F.
4. VENT SHALL BE LISTED FOR AN INTERNAL STATIC PRESSURE OF 8" W.G. AND TESTED TO 20" W.G. AS A MINIMUM.
5. VENT SHALL BE CONSTRUCTED WITH AN INNER AND OUTER WALL, WITH A 1" ANNULAR INSULATING AIR SPACE.
6. THE INNER WALL (VENT) SHALL BE CONSTRUCTED OF .015" THICK AL29-4C SUPERFERRITIC STAINLESS STEEL.
7. THE OUTER WALL (CASING) SHALL BE CONSTRUCTED OF 304 OR 316 STAINLESS STEEL, .018" THICKNESS.
8. INNER AND OUTER WALLS SHALL BE CONNECTED BY MEANS OF SPACER CLIPS THAT MAINTAIN THE CONCENTRICITY OF THE ANNULAR SPACE AND ALLOW UNOBSTRUCTED DIFFERENTIAL THERMAL EXPANSION OF THE INNER AND OUTER WALLS.
9. ALL PARTS EXPOSED TO THE WEATHER SHALL BE STAINLESS STEEL.
10. ALL SUPPORTS, ROOF OR WALL PENETRATIONS, TERMINATIONS, APPLIANCE CONNECTORS AND DRAIN FITTINGS, REQUIRED TO INSTALL THE VENT SYSTEM SHALL BE INCLUDED.
11. ROOF PENETRATION COMPONENTS SHALL BE UL LISTED AND PROVIDED BY THE VENT MANUFACTURER, ROOF CURBS SHALL BE REQUIRED ON ROOFS GREATER THAN 12:12 PITCH.
12. PIPING SHALL BE WELDED WITH FACTORY INSTALLED SEALING GASKETS TO SEAL JOINTS AIR AND WATER TIGHT WITHOUT FIELD APPLIED SEALANTS.
13. VENT SHALL TERMINATE IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS AND LOCAL CODES.

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: T. NOLAN
DRAWN BY: P. GREER
CHECKED BY: T. MONAHAN
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY TIMOTHY L. MONAHAN, P.E. No. 045504 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

GENERAL
HVAC
LEGEND, ABBREVIATIONS AND GENERAL NOTES

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 26-H-001

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-H&P.rvt
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NFPA 820 - 2024 CLASSIFICATION AND VENTILATION

ROOM, STRUCTURE OR AREA	NFPA 820 TABLE AND ROW	FUNCTION	EXTENT OF CLASSIFIED AREA	AREA CLASSIFICATION WITHOUT VENTILATION	REQUIRED CONTINUOUS VENTILATION RATE (ACH)	PROPOSED CONTINUOUS VENTILATION RATE (ACH)	FINAL AREA CLASSIFICATION PROPOSED	PRESSURIZATION	ROOM VOLUME (CF)	OUTDOOR AIR PROVIDED (CFM)	EXHAUST AIR (CFM)	NOTES
THERMAL DRYER	TABLE 6.2.2 (b) ROW 1C	SLUDGE DRYING PROCESS	AREA WITHIN EQUIP	CLASS 2, DIVISION 1	0	6	CLASS 2, DIVISION 1	NEGATIVE	87,300	12,950	13,750	1
THERMAL DRYER	TABLE 6.2.2 (b) ROW 1C	SLUDGE DRYING PROCESS	AREA WITHIN 10'	CLASS 2, DIVISION 2	0	6	CLASS 2, DIVISION 2	NEGATIVE	87,300	12,950	13,750	1
THERMAL DRYER	TABLE 6.2.2 (b) ROW 1C	SLUDGE DRYING PROCESS	AREA BEYOND 10'	UNCLASSIFIED	0	6	UNCLASSIFIED	NEGATIVE	87,300	12,950	13,750	1
THERMAL DRYER	TABLE 6.2.2 (a) ROW 26	ODOR CONTROL	AREA WITH 3'	CLASS 1, DIVISION 1	6	6	CLASS 1, DIVISION 2	NEGATIVE	87,300	12,950	13,750	1
THERMAL DRYER	TABLE 6.2.2 (a) ROW 26	ODOR CONTROL	AREA BEYOND 3'	CLASS 1, DIVISION 2	6	6	UNCLASSIFIED	NEGATIVE	87,300	12,950	13,750	1
ELECTRICAL	NA	ELECTRICAL	ENTIRE AREA	UNCLASSIFIED	NA	NA	UNCLASSIFIED	POSITIVE	8,000	500	0	2
THERMAL HEATER	NA	THERMAL HEATER	ENTIRE AREA	CLASS I, DIVISION II	NA	NA	UNCLASSIFIED	POSITIVE	22,314	0	0	3

NOTES:
1. ROOM VOLUME LISTED IS THE ENTIRE VOLUME OF THE THERMAL DRYER AREA.
2. ROOM VOLUME LISTED IS THE ENTIRE VOLUME OF THE ELECTRICAL ROOM.
3. ROOM VOLUME LISTED IS THE ENTIRE VOLUME OF THE THERMAL HEATER ROOM.

DESIGN CONDITIONS

LOCATION	WINTER DB	SUMMER DB / WB
OUTDOOR	25.5° F	91.8° F / 73.6° F
ELECTRICAL ROOMS	55° F	80° F
PROCESS AREAS	55° F	102° F

OUTSIDE DESIGN TEMPERATURES ARE BASED UPON ASHRAE 2017 CLIMATIC DESIGN DATA FOR THE 99.6 PERCENTILE HEATING DRY BULB INCIDENCE AND THE 0.4 PERCENTILE COOLING DRY BULB AND WET BULB INDICIES: FULTON CO. AP ATLANTA, GA (WMO: 722195)

NOTE: HEATING EQUIPMENT SELECTIONS BASED UPON 10 YEAR LOW TEMPERATURE (6° F)

AIR DEVICES - DIFFUSERS, REGISTERS, AND GRILLES

TAG	AREA SERVED	MANUFACTURER		AIRFLOW RANGE (CFM)	NECK SIZE (IN)	FACE SIZE		MAX PRESS. DROP ("WG)	TYPE	FINISH	MATERIAL	MOUNTING SURFACE	NOTES
		MAKE	MODEL			W (IN)	H (IN)						
SG1	DRYER	TITUS	300SS	1125 - 2250	36"x16"	36	16	0.07	HORIZINTAL	MILL	STAINLESS	DUCT	1
SG2	ELECT	TITUS	300SS	1260 - 2530	18"x36"	18	36	0.07	HORIZINTAL	MILL	STAINLESS	DUCT	1
RG1	ELECT	TITUS	350SS	220 - 700	20"x8"	20	8	0.07	HORIZINTAL	MILL	STAINLESS	DUCT	1

NOTES:
1. REFER TO SPECIFICATION 23 31 13 FOR ADDITIONAL REQUIREMENTS.

AIR COOLED CONDENSING UNIT

TAG	LOCATION	MANUFACTURER		DESIGN CAPACITY (MBH)	SEER	COMPRESSOR	CONDENSER		AMBIENT TEMP.		MAXIMUM ASSEMBLED DIMENSIONS (L x W x H)	WEIGHT (LBS)	POWER					NOTES
		MAKE	MODEL			TYPE	FAN Nc.	FAN TYPE (°F)	MAX.	MIN.			VOLT	PH	HZ	FLA	MOCP	
ACCU-TDF-1	DRYER	TRANE	5TTV8X60A100A	60	18	SCROLL	1	PROP	105	45	46X35X38	236	208	3	60	2.3	15	1,2,3,4
ACCU-TDF-2	DRYER	TRANE	5TTV8X60A100A	60	18	SCROLL	1	PROP	105	45	46X38X38	236	208	3	60	2.3	15	1,2,3,4

NOTES:
1. REFER TO SPECIFICATION 23 81 26 FOR ADDITIONAL REQUIREMENTS.
2. VARIABLE SPEED COMPRESSOR.
3. VARIABLE SPEED CONDENSER FAN.
4. R-454B REFRIGERANT.

FILTER HOUSING

TAG	AREA SERVED	MANUFACTURER		TYPE	MATERIAL	AIRFLOW (CFM)	SIZE			FILTER SIZE (IN)	FILTER QTY	NOTES
		MAKE	MODEL				WIDTH (IN)	HEIGHT (IN)	DEPTH (IN)			
F-TDF-1	DRYER	AMERICAN AIR FILTER	SUREPLEAT 10H10W	SIDE ACCESS	ALUMINUM	1,500	24	27	12	24x24	1.0	1,2

NOTES:
1. REFER TO SPECIFICATION 23 31 13 FOR ADDITIONAL REQUIREMENTS.
2. 2" PLEATED MERV 8 FILTER

FANS

TAG	LOCATION	AREA SERVED	MANUFACTURER		AIRFLOW (CFM)	E.S.P. ("WG)	FAN		WHEEL TYPE		MAX. SPEED (RPM)	MOTOR			POWER			WEIGHT (LBS)	NOTES
			MAKE	MODEL			TYPE	DRIVE	TYPE	MIN. DIA.		BHP	HP	VFD	VOLT	PH	HZ		
EF-TDF-1	DRYER	DRYER	GREENHECK	BAER-30-03-06	6,875	0.75	WALL	BELT	PROP	30	1,638	1.88	2	YES	480	3	60	150	1,2,3
EF-TDF-2	DRYER	DRYER	GREENHECK	BAER-30-03-06	6,875	0.75	WALL	BELT	PROP	30	1,638	1.88	2	YES	480	3	60	150	1,2,3
SF-TDF-1	DRYER	THERMAL HEATER	GREENHECK	AER-30-03-0605	8,000	0.5	WALL	DIRECT	PROP	36	1,160	1.38	1.5	NO	480	3	60	135	1,2,3
VF-TDF-1	DRYER	DRYER	BIG ASS FAN	POWERFOIL X4 14'	118,550	0.1	CEILING	DIRECT	PROP	168	114	NA	2.0	YES	480	3	60	255	1,4
VF-TDF-2	DRYER	DRYER	BIG ASS FAN	POWERFOIL X4 14'	118,550	0.1	CEILING	DIRECT	PROP	168	114	NA	2.0	YES	480	3	60	255	1,4

NOTES:
1. REFER TO SPECIFICATION 23 34 00 FOR ADDITIONAL REQUIREMENTS.
2. EPOXY COATING COATING.
3. TEFC MOTOR.
4. VFD CONTROLLER

POSITIVE PRESSURIZATION UNIT

TAG	LOCATION	MANUFACTURER		TOTAL AIRFLOW (CFM)	OUTSIDE AIRFLOW (CFM)	TOTAL STATIC PRESS (IN WC)	EXT. STATIC PRES. (IN WC)	MOTOR			PREFILTER		FILTERS		FINAL FILTERS		WEIGHT (LBS)	POWER					NOTES
		MAKE	MODEL					BHP	HP	VFD	TYPE	QTY	TYPE	QTY	TYPE	QTY		VOLT	PH	HZ	FLA	MOCP	
PPU-TDF-1	DRYER	PURAFIL	PPU500	1,000	500	4.5	0.1	NA	1	YES	PP-30	2	MEDIA	4	JFL-90	1	500	480	3	60	3	15	1, 2

NOTES:
1. REFER TO SPECIFICATION 23 74 05 FOR ADDITIONAL REQUIREMENTS.
2. ONGUARD 400 CONTROLLER.

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0 1/2" 1")

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: T. NOLAN
DRAWN BY: P. GREER
CHECKED BY: T. MONAHAN

CONFORMED DRAWING

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HAZEN AND SAWYER
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GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

GENERAL
HVAC
SCHEDULES SHEET 1

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 26-H-002

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-H&P.rvt
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AIR HANDLING UNITS

TAG	LOCATION	AREA SERVED	MANUFACTURER		TYPE	AIR FLOW (CFM)	MIN. OA (CFM)	E.S.P. ("WG)	MOTOR			HEATING COIL						COOLING COIL								EFFICIENCY SEER	WEIGHT (LBS)	POWER					NOTES
			MAKE	MODEL					BHP	HP	VFD	TYPE	EAT (°F)	LAT (°F)	CAPACITY (MBH)	MAX. FACE VEL. (FPM)	AIRFLOW AT MAX HEATING (CFM)	EAT (°F) DB	EAT (°F) WB	LAT (°F) DB	LAT (°F) WB	MAX. FINS/INCH	MAX. FACE VEL. (FPM)	CAPACITY TOTAL (MBH)	CAPACITY SENSIBLE (MBH)			VOLT	PH	HZ	MCA	MOCP	
AH-TDF-1	DRYER	ELECTRICAL	TRANE	5TEMCD07AV51DA	VERTICAL	2,000	0	0.75	0.88	1	YES	NA	NA	NA	NA	NA	NA	80	67	57	56	14	500	55.0	51.2	18.1	175	208	1	60	6	15	1,2,3
AH-TDF-2	DRYER	ELECTRICAL	TRANE	5TEMCD07AV51DA	VERTICAL	2,000	0	0.75	0.88	1	YES	NA	NA	NA	NA	NA	NA	80	67	57	56	14	500	55.0	51.2	18.1	175	208	1	60	6	15	1,2,3

NOTES:
1. REFER TO SPECIFICATION 23 81 26 FOR ADDITIONAL REQUIREMENTS.
2. R-454B REFRIGERANT AND ASSOCIATED SAFETIES.
3. VARIABLE SPEED MOTOR.

ELECTRIC UNIT HEATERS

TAG	LOCATION	AREA ASERVED	MANUFACTURER		TYPE	CAPACITY (KW)	AIRFLOW (CFM)	MOUNTING HEIGHT (FT)	DIMENSIONS			WEIGHT (LBS)	POWER			NOTES
			MAKE	MODEL					WIDTH (IN)	HEIGHT (IN)	DEPTH (IN)		VOLT	PH	HZ	
EUH-TDF-1	DRYER	ELECTRICAL	MARKEL	P3P5105CA1N	VERTICAL	5	400	9	14.5	17.75	6.5	27	480	3	60	1,2,3
EUH-TDF-2	DRYER	ELECTRICAL	MARKEL	P3P5105CA1N	VERTICAL	5	400	9	14.5	17.75	6.5	27	480	3	60	1,2,3

NOTES:
1. REFER TO SPECIFICATION 23 82 16 FOR ADDITIONAL REQUIREMENTS.
2. INTEGRAL THERMOSTAT.
3. WALL MOUNTING BRACKET

LOUVERS

TAG	LOCATION	MANUFACTURER		TYPE	MATERIAL	AIRFLOW (CFM)	SIZE		MIN.	FREE AREA (SQ FT)	MAX. FACE VEL. (FPM)	STATIC PRESS. DROP (" WC)	NOTES
		MAKE	MODEL				WIDTH (IN)	HEIGHT (IN)	DEPTH (IN)				
L-TDF-1	THERMAL DRYER	RUSKIN	ELF6357DX	STATIONARY	ALUMINUM	6,750	48	48	6	9.08	743.4	0.05	1
L-TDF-2	THERMAL DRYER	RUSKIN	ELF6357DX	STATIONARY	ALUMINUM	6,750	48	48	6	9.08	743.4	0.05	1
L-TDF-3	THERMAL DRYER	RUSKIN	ELF6357DX	STATIONARY	ALUMINUM	2,100	48	64	6	11.6	199.8	0.03	1
L-TDF-4	THERMAL DRYER	RUSKIN	ELF6357DX	STATIONARY	ALUMINUM	2,100	48	64	6	11.6	199.8	0.03	1
L-TDF-5	THERMAL DRYER	RUSKIN	ELF6357DX	STATIONARY	ALUMINUM	8,000	48	48	6	9.08	881.0	0.05	1
L-TDF-6	THERMAL DRYER	RUSKIN	ELF6357DX	STATIONARY	ALUMINUM	8,000	36	60	6	8.57	933.0	0.09	1
L-TDF-7	THERMAL DRYER	RUSKIN	ELF6357DX	STATIONARY	ALUMINUM	500	16	16	6	0.74	675.7	0.05	1
L-TDF-8	THERMAL DRYER	RUSKIN	ELF6357DX	STATIONARY	ALUMINUM	440	18	18	6	0.93	473.1	0.03	1
L-TDF-9	THERMAL DRYER	RUSKIN	ELF6357DX	STATIONARY	ALUMINUM	2,100	48	64	6	11.6	199.8	0.03	1
L-TDF-10	THERMAL DRYER	RUSKIN	ELF6357DX	STATIONARY	ALUMINUM	2,100	48	64	6	11.6	199.8	0.03	1

NOTES:
1. REFER TO SPECIFICATION 23 31 13 FOR ADDITIONAL REQUIREMENTS.

CONTROL DAMPERS

TAG	AREA SERVED	MANUFACTURER		BLADE TYPE	FAIL POSITION	MATERIAL	SIZE (IN)			ACTUATION TYPE (ELECT./ PNEUMATIC)	AIRFLOW (CFM)	PRESSURE DROP MAX. ("WG)	FREE AREA (SQFT)	FACE VELOCITY (FPM)	POWER			NOTES
		MAKE	MODEL				W	H	D						VOLT	PH	HZ	
CD-TDF-1	DRYER	RUSKIN	CBDS	FORMED	CLOSED	ALUMINUM	48	48	4	GRAVITY	6,750	0.05	12.8	527.3	NA	NA	NA	1,2
CD-TDF-2	DRYER	RUSKIN	CBDS	FORMED	CLOSED	ALUMINUM	48	48	4	GRAVITY	6,750	0.05	12.8	527.3	NA	NA	NA	1,2
CD-TDF-3	THERMAL HEATER	RUSKIN	CD40	AIRFOIL	OPEN	ALUMINUM	48	64	4	ELECTRIC	COMBUSTION AIR	0.03	11.6	199	120	1	60	1,2
CD-TDF-4	THERMAL HEATER	RUSKIN	CD40	AIRFOIL	OPEN	ALUMINUM	48	64	4	ELECTRIC	COMBUSTION AIR	0.03	11.6	199	120	1	60	1,2
CD-TDF-5	THERMAL HEATER	RUSKIN	CD40	AIRFOIL	OPEN	ALUMINUM	48	48	4	ELECTRIC	8,000	0.08	12.8	625.0	120	1	60	1,2
CD-TDF-6	THERMAL HEATER	RUSKIN	CD40	AIRFOIL	OPEN	ALUMINUM	36	60	4	ELECTRIC	8,000	0.1	8.87	933.5	120	1	60	1,2
CD-TDF-7	ELECTRICAL	RUSKIN	CD40	AIRFOIL	OPEN	ALUMINUM	16	16	4	ELECTRIC	500	0.05	1.15	434.8	120	1	60	1,2
CD-TDF-8	THERMAL HEATER	RUSKIN	CD40	AIRFOIL	OPEN	ALUMINUM	48	64	4	ELECTRIC	COMBUSTION AIR	0.03	11.6	199	120	1	60	1,2
CD-TDF-9	THERMAL HEATER	RUSKIN	CD40	AIRFOIL	OPEN	ALUMINUM	48	64	4	ELECTRIC	COMBUSTION AIR	0.03	11.6	199	120	1	60	1,2

NOTES:
1. REFER TO SPECIFICATION 23 31 13 FOR ADDITIONAL REQUIREMENTS.
2. RUSKIN RUS-L120 ACTUATOR
3. END OF TRAVEL SWITCHES

NATURAL GAS UNIT HEATERS

TAG	LOCATION	AREA ASERVED	MANUFACTURER		TYPE	CAPACITY INPUT (MBH)	CAPACITY OUTPUT (MBH)	AIRFLOW (CFM)	TEMP. RISE (F)	MOUNTING HEIGHT (FT)	THROW (FT)	CONDENSATE (GAL/HR)	DIMENSIONS			WEIGHT (LBS)	POWER			NOTES
			MAKE	MODEL									WIDTH (IN)	HEIGHT (IN)	DEPTH (IN)		VOLT	PH	HZ	
GUH-TDF-1	DRYER	THERMAL HEATER	MODINE	PTC55	CONDENSING	55	51.1	1,097	43	12	43	0.3	14.5	17.75	6.5	27	120	1	60	1,2,3
GUH-TDF-2	DRYER	THERMAL HEATER	MODINE	PTC55	CONDENSING	55	51.1	1097	43	12	43	0.3	14.5	17.75	6.5	27	120	1	60	1,2,3

NOTES:
1. REFER TO SPECIFICATION 23 55 33 FOR ADDITIONAL REQUIREMENTS.
2. INTEGRAL THERMOSTAT
3. STAINLESS STEEL HEAT EXCHANGER

MODULAR AIR HANDLING UNITS

TAG	LOCATION	AREA SERVED	MANUFACTURER		MAXIMUM AIR FLOW (CFM)	MAXIMUM OA (CFM)	MINIMUM AIR FLOW UNOCC. MODE WINTER (CFM)	MIN. OA AIR FLOW UNOCC. MODE WINTER (CFM)	EXTERNAL STATIC PRESS. (IN WC)	SUPPLY FAN CHARACTERISTICS					MOTOR					GAS FIRED HEATING					POWER						WEIGHT (LBS)	NOTES
			MAKE	MODEL						WHEEL TYPE	WHEEL DIA. (IN)	TSP (" WG)	ESP (" WG)	SPEED (RPM)	QTY	BHP	HP	VFD	FEI	OUTPUT CAPACITY (MBH)	EAT (°F)	LAT (°F)	MAX. FACE VEL. (FPM)	AIRFLOW AT MAX HEATING (CFM)	FUEL TYPE	FUEL CONSUMPTION (SCFH)	FUEL INLET PRESSURE (" WC)	FUEL CONNECTION SIZE (IN)	V	PH	HZ	MCA	MOCP		
MAU-TDF-1	DRYER	DRYER	TRANE	CSAA025	12,950	12,950	6,475	6,475	1.0	PLENUM	17.7	3.59	2.0	2,540	2	4	5	YES	1.18	970.0	15	83.0	500	12,950	NAT. GAS	1,197.0	10	2	480	3	60	25.4	35	3,700	1,2,3,4,5,6,7

NOTES:
1. REFER TO SPECIFICATION 23 74 01 FOR ADDITIONAL REQUIREMENTS
2. 20:1 TURNDOWN RATIO
3. TEFC VFD RATED MOTOR
4. 2" MERV 8 PLEATED FILTERS
5. 2" FOAM INSULATION - R-13
6. EPOXY FINISH ON INTERIOR AND EXTERIOR SURFACES
7. 120/1 VOLT CIRCUIT FOR GAS HEAT, 5 AMPS

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: T. NOLAN
DRAWN BY: P. GREER
CHECKED BY: T. MONAHAN

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

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Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

GENERAL
HVAC
SCHEDULES SHEET 2

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 26-H-003

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-H&P.rvt
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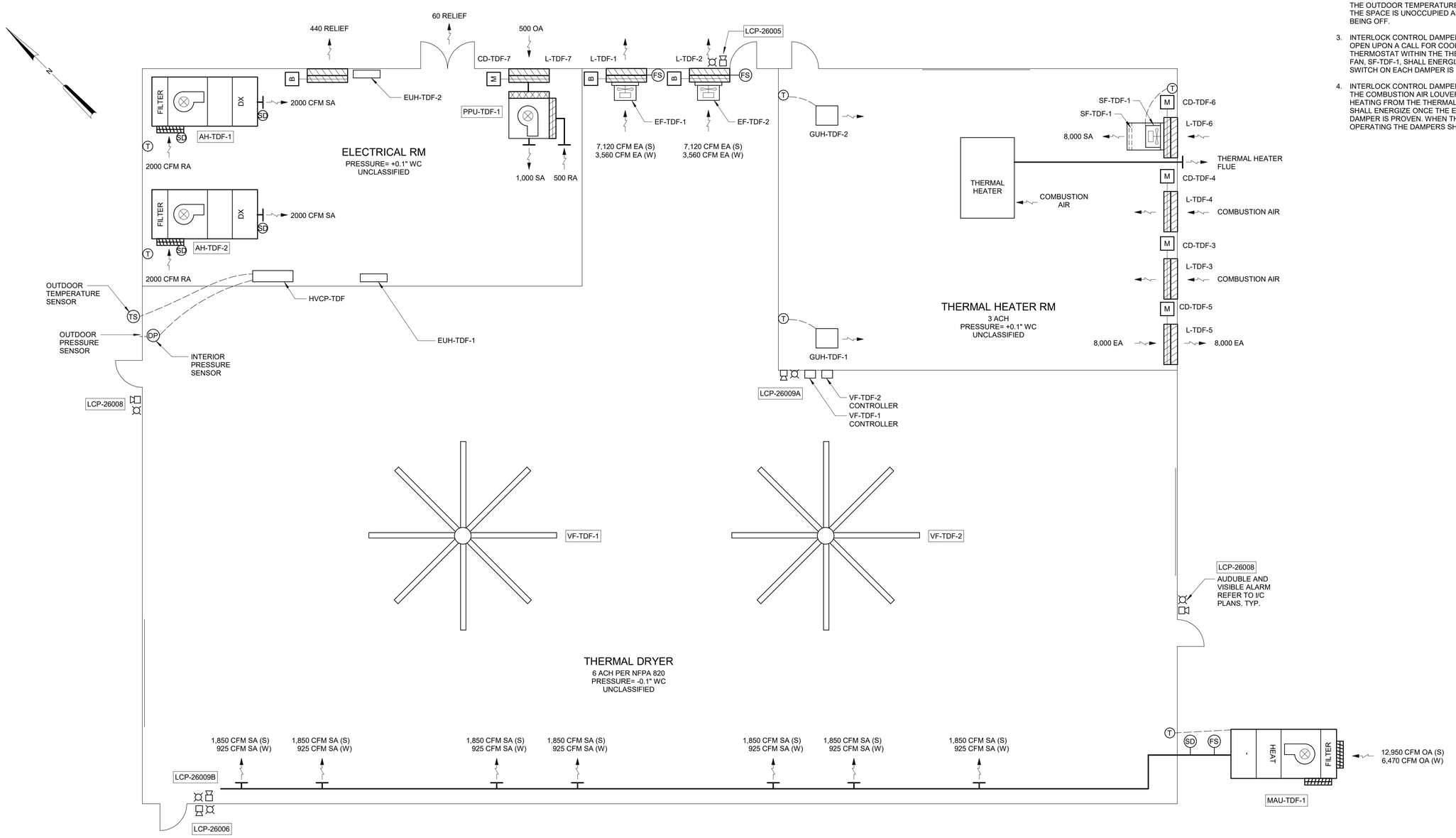

AIRFLOW DIAGRAM

NTS

NOTES:

1. INTERLOCK MAKE-UP AIR UNIT, MAU-TDF-1, WITH EXHAUST FANS, EF-TDF-1 AND EF-TDF-2, TO OPERATE IN SUMMER OR WINTER MODE.
2. WINTER MODE SHALL BE DETERMINED BY OCCUPANCY AND OUTDOOR TEMPERATURE. WINTER MODE SHALL BE WHENEVER THE OUTDOOR TEMPERATURE IS BELOW 50 DEGREES F AND THE SPACE IS UNOCCUPIED AS DETERMINED BY THE LIGHTS BEING OFF.
3. INTERLOCK CONTROL DAMPERS, CD-TDF-4 AND CD-TDF-5, TO OPEN UPON A CALL FOR COOLING FROM THE SPACE THERMOSTAT WITHIN THE THERMAL HEATER ROOM. SUPPLY FAN, SF-TDF-1, SHALL ENERGIZE ONCE THE END OF TRAVEL SWITCH ON EACH DAMPER IS PROVEN.
4. INTERLOCK CONTROL DAMPERS, DC-TDF-3 AND CD-TDF-6, ON THE COMBUSTION AIR LOUVERS TO OPEN UPON A CALL FOR HEATING FROM THE THERMAL HEATER. THE THERMALHEATER SHALL ENERGIZE ONCE THE END OF TRAVEL SWITCH ON EACH DAMPER IS PROVEN. WHEN THERMAL HEATER IS NOT OPERATING THE DAMPERS SHALL CLOSE.

REV	ISSUED FOR	DATE	BY
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2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
HVAC
AIRFLOW DIAGRAM

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	26-H-100

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-H&P.rvt
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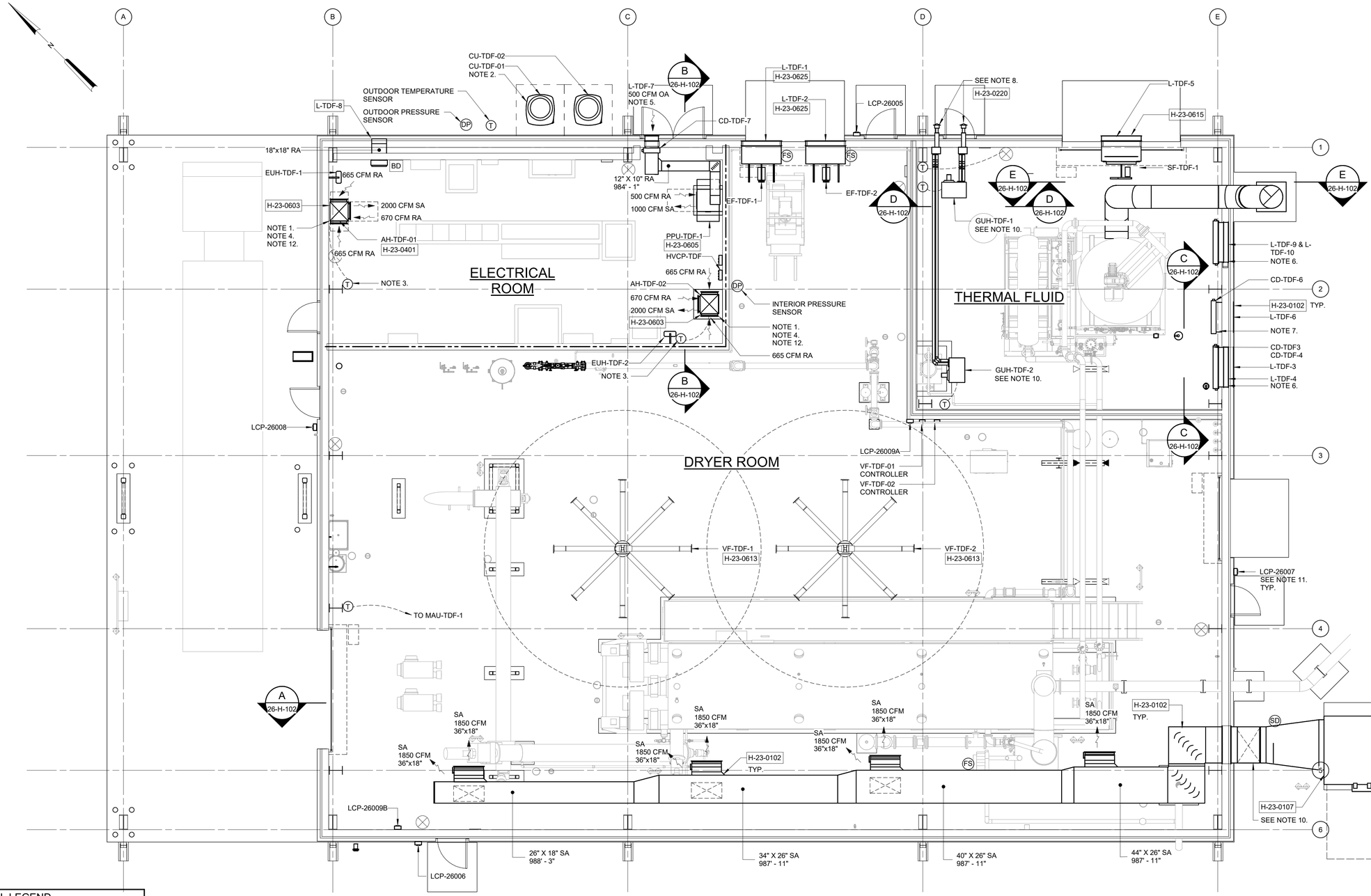

NOTES:

1. FURNISH AND INSTALL 4" REINFORCED CONCRETE PAD FOR AC UNITS. PAD SHALL EXTEND A MIN. OF 6" BEYOND UNIT ON ALL SIDES. MAINTAIN ALL MANUFACTURER RECOMMENDED OPERATION AND SERVICE CLEARANCES. REFER TO STRUCTURAL PLANS FOR DETAILS.
2. FURNISH AND INSTALL A 4" THICK REINFORCED CONCRETE PAD FOR CONDENSING UNIT. PAD SHALL EXTEND FROM FACE OF BUILDING TO A MIN. OF 6" BEYOND UNIT ON ALL SIDES. MAINTAIN ALL MANUFACTURER'S RECOMMENDED CLEARANCES FOR SERVICE AND OPERATION. REFER TO STRUCTURAL PLANS FOR DETAILS.
3. MOUNT THERMOSTATS 48" A.F.F. COORDINATE LOCATION WITH OWNER, DOOR SWINGS, AND WALL MOUNTED DEVICES.
4. FURNISH AND INSTALL SMOKE DETECTORS IN SUPPLY AND RETURN DUCTS OF EACH A/C UNIT. SMOKE DETECTOR IN RETURN DUCT SHALL BE LOCATED SO THAT IT IS IN THE MIXED AIR PORTION OF THE RETURN. SMOKE DETECTORS SHALL SHUT DOWN THE UNIT UPON ACTIVATION. SIGNAL TO BE SEND \T TO FACP. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
5. OUTSIDE AIR INTAKES SHALL BE A MIN. OF 10'-0" FROM PLUMBING VENTS, EXHAUST FAN DISCHARGES AND FLUE TERMINATIONS. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS PRIOR TO INSTALLATION.
6. FURNISH AND INSTALL (2) 48"X64" COMBUSTION AIR INTAKE LOUVERS WITH MOTORIZED DAMPERS. LOCATE (1) LOUVER 12" BELOW CEILING AND (1) 12" A.F.F., MIN. FREE AREA OF LOUVER TO BE AS SCHEDULED. INTERLOCK THERMAL HEATER AND MOTORIZED COMBUSTION AIR DAMPER. HEATER SHALL BE ENERGIZED UPON VERIFICATION DAMPERS ARE OPEN BY END OF TRAVEL SWITCH. CONTRACTOR SHALL COORDINATE INTERLOCK WIRING OF HEATER AND MOTORIZED DAMPER WITH ELECTRICAL. INTERLOCK POWER WIRING AND CONDUITS TO BE BY ELECTRICAL. CONTRACTOR SHALL VERIFY PROPER OPERATION.
7. INTERLOCK SUPPLY FAN AND MOTORIZED EXHAUST DAMPER. FAN SHALL BE ENERGIZED UPON VERIFICATION DAMPERS ARE OPEN BY END OF TRAVEL SWITCH. CONTRACTOR SHALL COORDINATE INTERLOCK WIRING OF SUPPLY FAN AND MOTORIZED DAMPER WITH ELECTRICAL. INTERLOCK POWER WIRING AND CONDUITS TO BE BY ELECTRICAL. CONTRACTOR SHALL VERIFY PROPER OPERATION AND FLOW RATE OF FAN.
8. FURNISH AND INSTALL CONCENTRIC VENT KIT PER MANUFACTURER'S RECOMMENDATIONS.
9. FURNISH AND INSTALL A 4" THICK REINFORCED CONCRETE PAD FOR MAKE-UP AIR UNIT. PAD SHALL EXTEND A MIN. OF 6" BEYOND UNIT ON ALL SIDES. MAINTAIN ALL MANUFACTURER'S RECOMMENDED CLEARANCES FOR SERVICE AND OPERATION. REFER TO STRUCTURAL PLANS FOR DETAILS.
10. RISE DUCT UP AN PENETRATE EXTERIOR WALL. PROVIDE WEATHER PROOF FLASHING AT PENETRATION. REFER TO STRUCTURAL PLANS FOR FRAMING.
11. LOCATION OF VENTILATION ALARM PANEL SHOWN FOR CLARITY. REFER TO ARCHITECTURAL AND INSTRUMENTATION PLANS FOR DETAILS.
12. FURNISH AND INSTALL 3/4" MCD TO NEAREST HUB DRAIN. INSULATE MCD PIPING FROM UNIT TO OUTLET AS SPECIFIED.

WALL LEGEND	
SYMBOL	DESCRIPTION
	2 HOUR RATED WALL
	NON-RATED WALL

TOP PLAN

3/16" = 1'-0"

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

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PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	T. NOLAN
DRAWN BY:	P. GREER
CHECKED BY:	T. MONAHAN

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GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
HVAC
TOP PLAN

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	26-H-101

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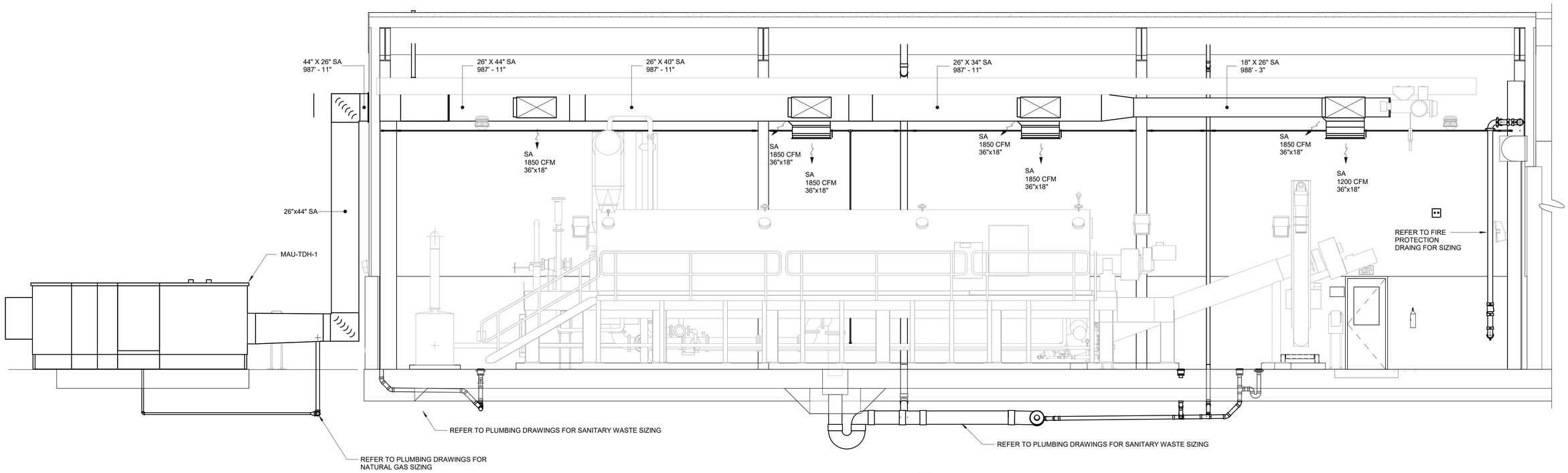
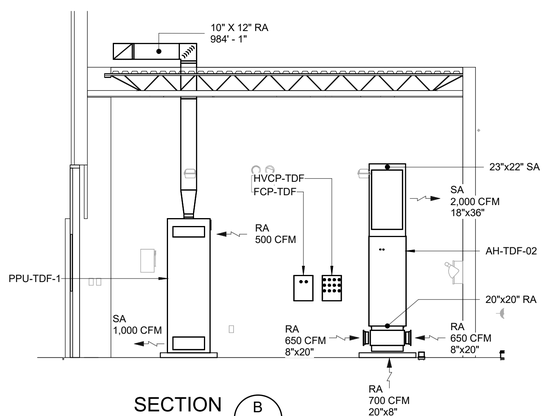
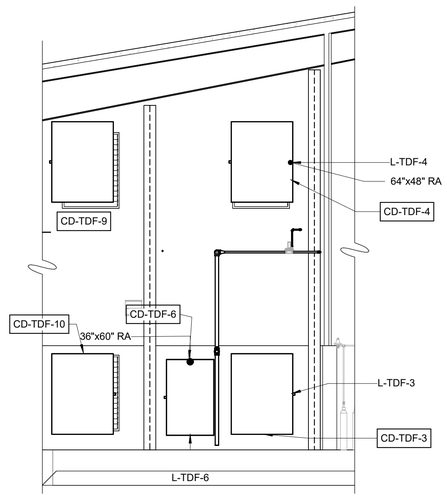


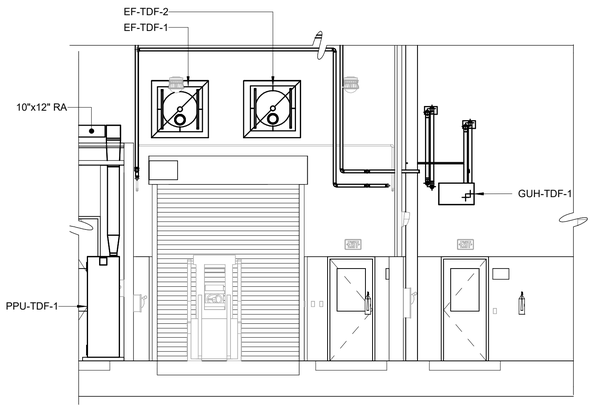
SECTION A
1/4" = 1'-0" 26-H-101



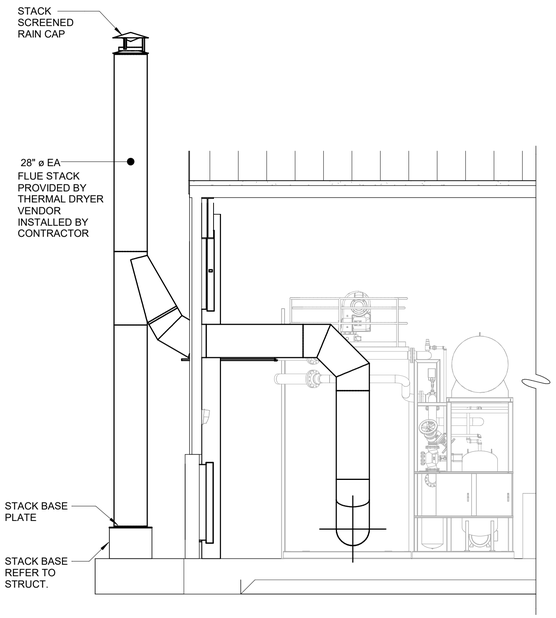
SECTION B
1/4" = 1'-0" 26-H-101



SECTION C
3/16" = 1'-0" 26-H-101



SECTION D
3/16" = 1'-0" 26-H-101



SECTION E
3/16" = 1'-0" 26-H-101

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY HVAC SECTIONS

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	26-H-102

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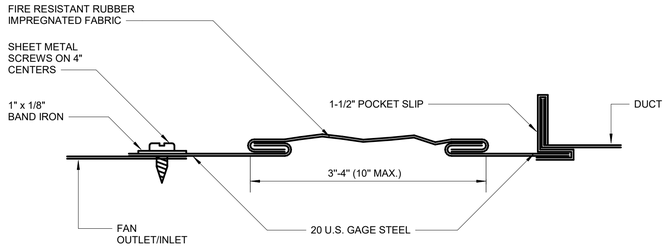
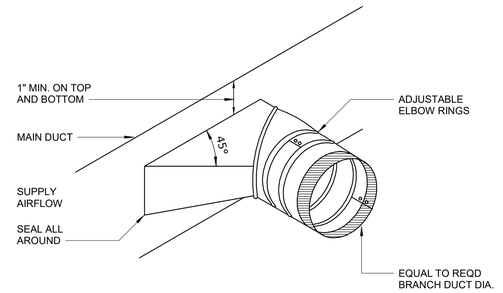


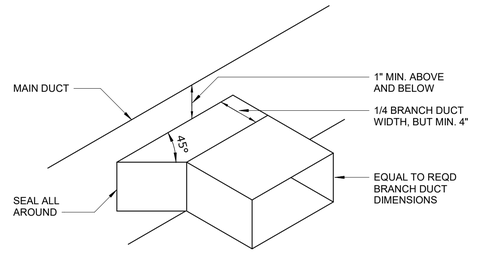
TYPICAL FLEXIBLE CONNECTION

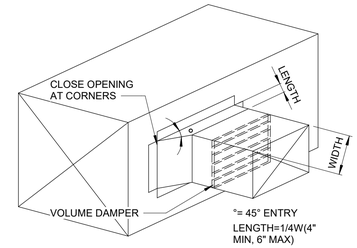
H-23-0107



TYPICAL BRANCH TAKE-OFF

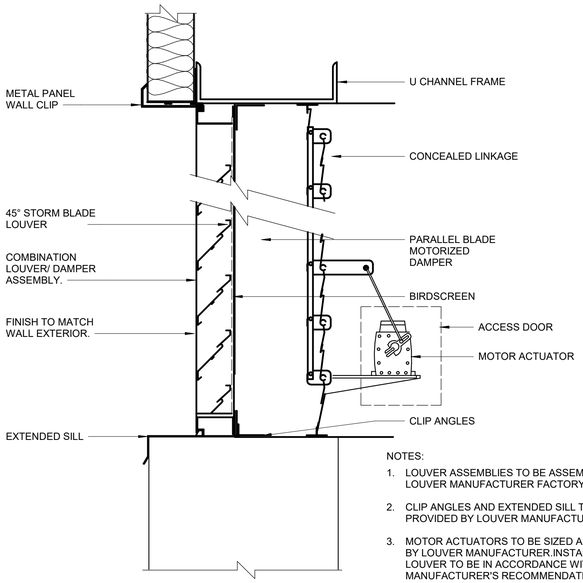
H-23-0103





450EG DUCT BRANCH CONNECTION

H-23-0102

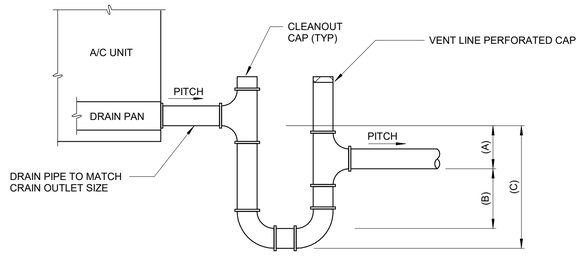


NOTES:

1. LOUVER ASSEMBLIES TO BE ASSEMBLED AT LOUVER MANUFACTURER FACTORY.
2. CLIP ANGLES AND EXTENDED SILL TO BE PROVIDED BY LOUVER MANUFACTURER.
3. MOTOR ACTUATORS TO BE SIZED AND INSTALLED BY LOUVER MANUFACTURER.INSTALLATION OF LOUVER TO BE IN ACCORDANCE WITH LOUVER MANUFACTURER'S RECOMMENDATIONS.

COMBINATION LOUVER/DAMPER

H-23-0214



NOTES:

1. ALLOW SUFFICIENT SPACE BELOW DRAIN PAN FOR TRAP.
2. PITCH DRAIN FOR PROPER RUNOFF.
3. MANUALLY PRIME FILL TRAP BEFORE START-UP TO FORM INITIAL DRAIN SEAL. SUPPORT LENGTHY DRAIN LINES TO PREVENT SAG.

DRAW THROUGH COIL (NEGATIVE PRESSURE):

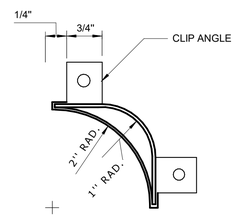
A. 1 INCH FOR EACH OF NEGATIVE PRESSURE PLUS 1 INCH (NEGATIVE STATIC PRESSURE IN INCHES WG WITH DIRTY FILTERS, COILS, AND MAXIMUM AIR FLOW.)

B. THIS DIMENSION IN INCHES MUST BE EQUAL TO MIN 1/2 OF THE (A) ABOVE.

C. EQUALS (A) + (B) + PIPE DIAMETER + INSULATION

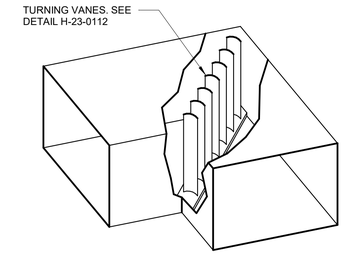
AIR CONDITIONER COIL TRAP

H-23-0401



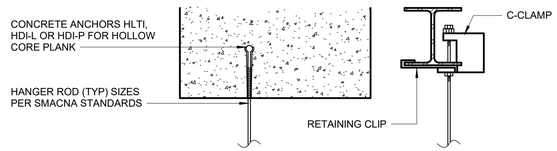
TYPICAL TURNING VANE

H-23-0112

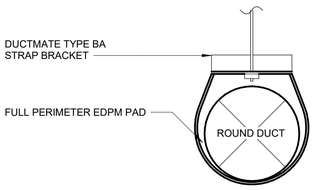


MITERED ELBOW

H-23-0109



TYPICAL CONNECTIONS

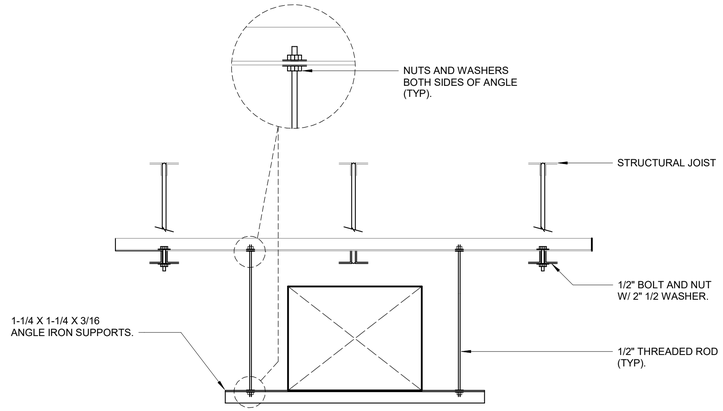


NOTES:

1. SUPPORT MATERIALS SHALL MATCH DUCT MATERIALS.

DUCT SUPPORT ROUND HANGING

H-23-0801



DUCT HANGER

H-23-0303

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
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DRAWN BY: P. GREER
CHECKED BY: T. MONAHAN
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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

HVAC STANDARD DETAILS
HVAC
DETAILS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 99-HD-001

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-28-TDF-H&P.rvt
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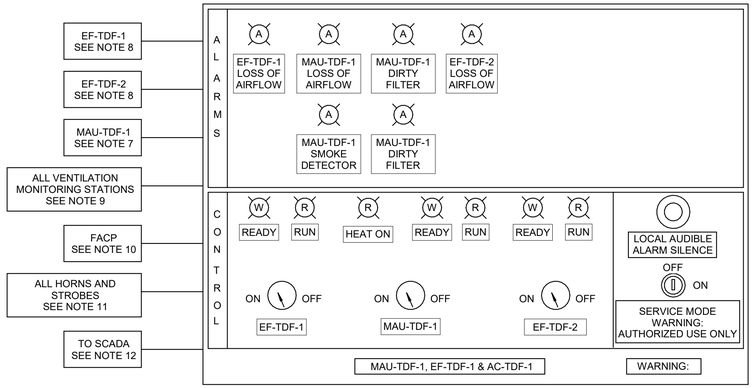


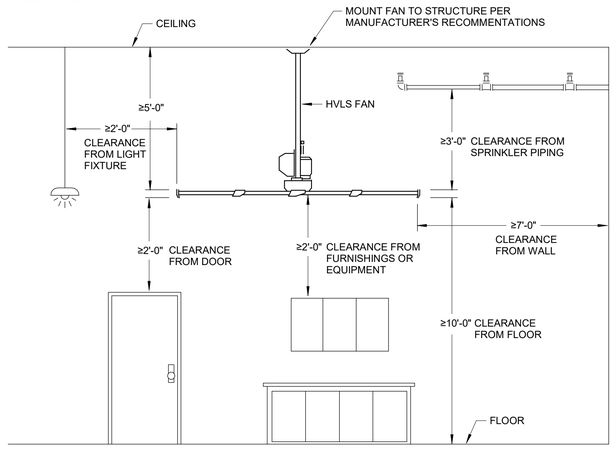
HVCP-TDF

NOTES:

1. PLACE A RED WARNING SIGN CONSPICUOUSLY ON THE FACE OF EACH HVAC CONTROL PANEL WHICH READS AS FOLLOWS:

   WARNING
   THIS PANEL CONNECTED TO MULTIPLE SOURCES OF POWER

2. FOR SEQUENCE OF OPERATION, SEE SPECIFICATION 23 09 02. CABLE AND CONDUIT SHALL BE PROVIDED BY THE ELECTRICAL SUB CONTRACTOR. SEE ELECTRICAL DRAWINGS FOR CABLE AND CONDUIT SCHEDULE.
3. SIGNALS SHOWN IN THE CONTROL DIAGRAM, UNLESS OTHERWISE STATED, TERMINATE AT OR ORIGINATE FROM THE RESPECTIVE VENTILATION CONTROL PANEL.
4. POWER SIGNALS FOR DAMPERS AND INSTRUMENTS ARE NOT SHOWN ON THE CONTROL DIAGRAM. POWER AND CONTROL TO ACTUATORS SHALL BE FROM THEIR RESPECTIVE MOTOR STARTERS. SIGNALS INCLUDE HEATER FAULT SIGNAL.
5. ALL INSTRUMENT TAPS SHALL EXTEND A MINIMUM OF 1" FROM THE DUCTWORK AND BE CAPABLE OF INSERTING A 3/8" INSTRUMENT PROBE. ALL TAPS AND CAPS SHALL BE MADE OF THE SAME MATERIAL AS THE DUCTWORK. TAPS AND CAPS FOR INSULATED DUCT SHALL EXTEND A MINIMUM OF 1" FROM THE SURFACE OF THE INSULATION TO ALLOW USE WITHOUT REMOVING OR DAMAGING THE INSULATION.
6. UNLESS INDICATED OTHERWISE IN THE CONTROL STRATEGY, THE LOW FLOW ALARMS SHALL ACTIVATE WHEN THE FLOW FALLS BELOW 70% OF THE DESIGN FLOW FOR THE RESPECTIVE SYSTEM AND MODE OF OPERATION. SEE SPECIFICATION 23 09 02 FOR DETAILS ON THE SEQUENCE OF OPERATION.
7. THE FOLLOWING SIGNALS SHALL BE TRANSMITTED THROUGH THE BUILDING AUTOMATION NETWORK CONNECTION:
   1. DAMPER OPEN END SWITCH COMMAND - DI
   2. DAMPER CLOSED END SWITCH - DI
   3. VFD SPEED FEEDBACK - AI
   4. VFD ALARM - DI
   5. SUPPLY AIRFLOW SENSOR - AI
   6. FILTER PRESSURE DROP - AI
   7. OUTSIDE AIR TEMPERATURE SENSOR - AI
   8. SUPPLY AIR TEMPERATURE SENSOR - AI
   9. LOW TEMPERATURE ALARM - DI
8. MOTOR THERMAL OVERLOAD - DI
   THE FOLLOWING SIGNALS SHALL BE TRANSMITTED THROUGH THE BUILDING AUTOMATION NETWORK CONNECTION:
   1. DAMPER OPEN END SWITCH COMMAND - DI
   2. DAMPER CLOSED END SWITCH - DI
   3. VFD SPEED FEEDBACK - AI
   4. VFD ALARM - DI
9. SUPPLY AIRFLOW SENSOR - AI
   THE FOLLOWING SIGNALS SHALL BE HARDWIRED TO SCADA:
   1. VENTILATION SYSTEM OPERATING - DO
   2. VENTILATION SYSTEM LOW - DO
   3. ALARM SILENCE - DI
10. UNOCCUPIED PUSH BUTTON - DI
    THE FOLLOWING SIGNALS SHALL BE HARDWIRED FROM THE FACP:
    1. VENT SYSTEM SHUTDOWN - DI
11. THE FOLLOWING SIGNALS SHALL BE HARDWIRED TO SCADA:
    1. HORN SIGNAL - DO
    2. STROBE SIGNAL - DO



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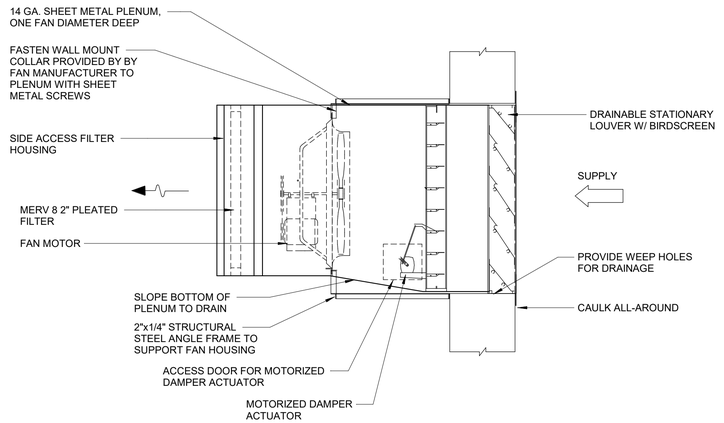
H-23-0613



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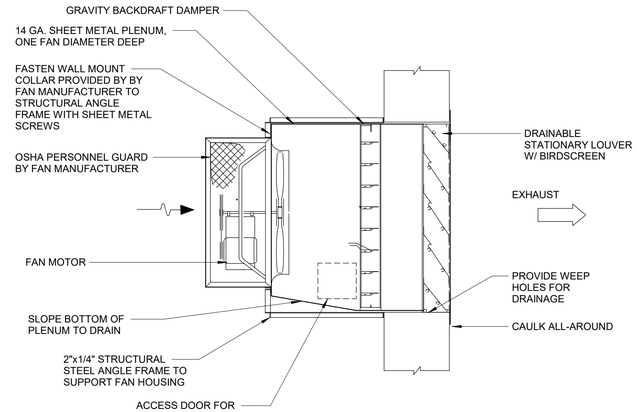

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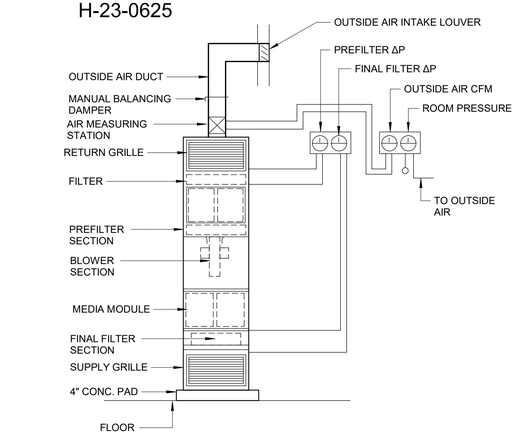

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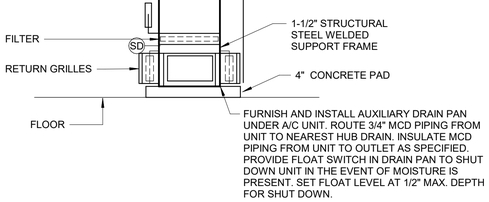
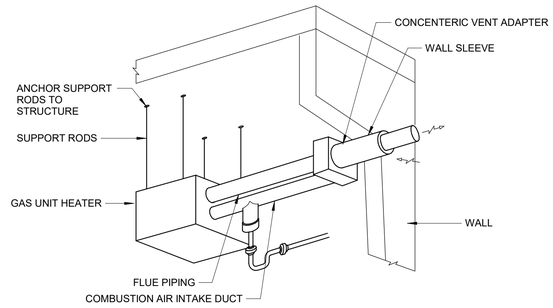
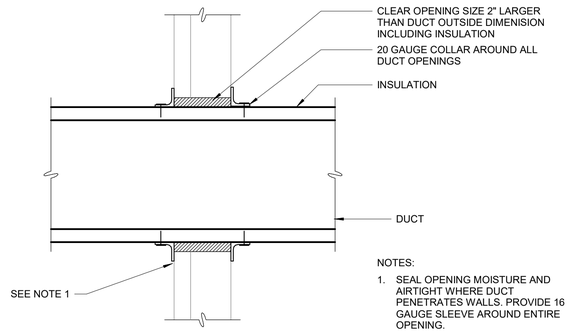
H-23-0605



AIR HANDLER
H-23-0603



GAS UNIT HEATER CONCENTRIC VENT
H-23-0220



DUCT WALL PENETRATION
H-23-0204

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: T. NOLAN
DRAWN BY: P. GREER
CHECKED BY: T. MONAHAN
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY TIMOTHY L. MONAHAN, P.E. No. 045504 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

HVAC STANDARD DETAILS
HVAC
DETAILS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 99-HD-002

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-H&P.rvt
3/9/2026 11:19:24 AM

FIRE PROTECTION DESIGN CRITERIA

ORDINARY HAZARD GROUP II

ORDINARY HAZARD GROUP II REQUIRES A MINIMUM SPRINKLER DENSITY OF 0.2 GPM/SQ. FT. OVER A\THE MOST REMOTE 1,500 SQ. FT. AREA

DEMAND: 0.2 GPM/SQ. FT. X 1,500 SQ. FT. = 300 GPM
HYDRAULIC BUILDUP / OVERAGE (10%) 30 GPM
TOTAL SPRINKLER DEMAND 330 GPM

HOSE STREAM ALLOWANCE 250 GPM

TOTAL SYSTEM DEMAND 580 GPM

PRESSURE REQUIRE FOR THE SYSTEM IS DETERMINED BY THE HIGHEST LINE OF SPRINKLERS ABOVE GRADE AND THE ANTICIPATED FRICTION LOD\SSES IN THE SPRINKLER PIPING SYSTEM(INCLUDING DOUBLE DETECTOR CHECK VALVE ASSEMBLY, ALARM CHECK VALVE AND CONTROL VALVES).

ADD A 10% CUSHION FOR DESIGN PER NFPA 13.

MINIMUM PRESSURE AT SPRINKLER HEAD TO BE 20 PSIG.

FIRE PROTECTION DESIGN CRITERIA	
HAZARD CLASSIFICATION	ORDINARY, GROUP 2
SPRINKLER DENSITY (GPM/SQ. FT.)	0.2
REMOTE AREA (SQ. FT.)	1,500
MAXIMUM HEAD COVERAGE AREA (SQ. FT.)	100
HOSE STREAM ALLOWANCE (GPM)	250
NUMBER OF HEADS IN REMOTE AREA	25
SPRINKLER "K" FACTOR	8.0
FLOW REQUIRED (GPM)	550
MINIMUM HEAD PRESSURE REQUIRED (PSIG)	20
BASE OF RISER FLOW (GPM)	550
BASE OF RISER PRESSURE (PSIG)	XX.X
RISER SAFETY MARGIN (PSIG)	XX.X

TWO HYDRANT FLOW TEST	
DATE TEST WAS PERFORMED	OCTOBER 29, 2024
TIME TEST WAS PERFORMED	0.2
PERSON PERFROMING TEST	BRIAN DARBY
TEST HYDRANT ID	NA
TEST HYDRANT ELEVATION	972.0
MONITOR HYDRANT ID	NA
MONITOR HYDRANT ELEVATION	NA
STATIC PRESSURE (PSIG)	130.0
PITOT PRESSURE (PSIG)	35.0
FLOW (GPM)	998.0
RESIDUAL PRESSURE (PSIG)	52.0
CALCULATED FLOW AT 20 PSIG (GPM)	1,202

FLOW TEST PROVIDED FOR REFFERENCE ONLY. CONTRACTOR SHALL PERFORM A NEW TEST FOR HYDRAULIC DESIGN PURPOSES.

FOAM SYSTEM DESIGN CRITERIA	
HAZARD CLASSIFICATION	EXTRA, GROUP 2
SPRINKLER DENSITY (GPM/SQ. FT.)	0.3
AREA 1 - THERMAL HEATER ROOM (SQ. FT.)	684.3
SYSTEM FLOW (GPM) - GPM/SQ. FT X AREA SQ. FT.	136.8
SOLUTION REQUIRED (GAL) - GPM X 10 MINUTES	1,368.6
CONCENTRATE AT 3% SOLUTION (GAL)	41.6
PROPORTIONER MIN FLOW RATE	59.0
GALLONS REQUIRED FOR PROPORTIONER	590
CONCENTRATE AT 3% SOLUTION (GAL)	17.7
CONCENTRATE PROVIDED (GAL)	150

FOAM CONCENTRATE CONSUMPTION CALCULATION	
SYSTEM WITH GREATEST FLOW REQUIREMENT	THERMAL HEATER RM
AREA 1 - THERMAL HEATER ROOM (SQ. FT.)	684.3
REQUIRED DURATION (MIN.)	30
SOLUTION CONSUMPTION W/ 20% MARGIN (GAL)	4,924.8
CONCENTRATE AT 3% SOLUTION (GAL)	147.7
CONCENTRATE PROVIDED (GAL)	150
ACTUAL DURATION (MIN)	36.5

SYMBOLS

- GATE VALVE
- GLOBE VALVE
- PLUG VALVE
- BUTTERFLY VALVE
- BALL VALVE
- CHECK VALVE
- DOUBLE CHECK VALVE
- REDUCED PRESSURE BACKFLOW PREVENTER
- OSY VALVE W/ SUPERVISORY SWITCH
- PRESSURE GAGE
- PIPE END CAP
- FIRE DEPARTMENT CONNECTION
- PIPE TURNED DOWN
- PIPE TURNED UP
- PIPE TEE, OUTLET TURNED DOWN
- PIPE TEE, PUTLET TURNED UP
- WYE STRAINER WITH BALL VALVE BLOWOFF

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
BLDG	BUILDING
CC	CENTER TO CENTER
CI	CAST IRON
COL	COLUMN
CPLG	COUPLING
CF	CUBIC FEET
CLG	CEILING
CV	CHCK VALVE
CW	COLD WATER
DI	DUCTILE IRON
DIA	DIAMETER
DN	DOWN
DWV	DRAIN, WASTE AND VENT
EL	ELEVATION
FD	FLOOR DRAIN
FLR	FLOOR
FT	FEET
FIN	FINISHED
FLG	FLANGE
FM	FACTORY MUTUAL
FS	FLOW SWITCH
GPM	GALLONS PER MINUTE
GAL	GALLON
GC	GENERAL CONTRACTOR
GV	GATE VALVE
HP	HORSEPOWER
I. E.	INVERT ELEVATION
IN	INCH
IRI	INDUSTRIAL RISK INSURANCE
JST	JOIST
LB	POUND
MAX	MAXIMUM
MIN	MINIMUM
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
N.O.	NORMALLY OPEN
NPW	NON-POTABLE WATER
NRS	NON-RISING STEM
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OSY	OUTSIDE SCREW AND YOKE
PIV	POST INDICATOR VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAGE
PVC	POLYVINYL CHLORIDE
PW	POTABLE WATER
RPM	REVOLUTIONS PER MINUTE
SAN	SANITARY
SCH	SCHEDULE
SF	SQUARE FOOT
SS	SANITARY SEWER
TYP	TYPICAL
UP	UP TO FLOOR ABOVE
UL	UNDERWRITERS LABORATORY
VA	VALVE
VIV	VALVE IN VERTICAL
VTR	VENT THRU ROOF
W	WASTE
WFS	WATER FLOW SWITCH
WT	WEIGHT

GENERAL NOTES

1. FOR ADDITIONAL REQUIREMENTS REFER TO SPECIFICATIONS.
2. WORK SHALL BE EXECUTED IN FULL COMPLIANCE WITH THE APPLICABLE PROVISIONS OF ALL LAWS, BY-LAWS, STATUTES, ORDINANCES, CODES, RULES, REGULATIONS, AND LAWFUL ORDERS OF PUBLIC AUTHORITIES BEARING ON THE PERFORMANCE AND EXECUTION OF THE WORK.
3. THE ENTIRE HVAC SYSTEM SHALL BE IN ACCORDANCE WITH BUT NOT LIMITED TO THE FOLLOWING CODES:
   A. 2024 NFPA 101 LIFE SAFETY CODE
   B. 2022 NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE
   C. 2018 INTERNATIONAL MECHANICAL CODE WITH GEORGIA AMMENDMENTS.
   D. 2018 INTERNATIONAL FUEL GAS CODE WITH GEORGIA AMMENDMENTS.
   E. 2015 INTERNATIONAL ENERGY CONSERVATION CONSTRUCTION CODE WITH GEORGIA AMMENDMENTS.
   F. 2018 INTERNATIONAL FIRE CODE.
   G. 2022 NFPA 70 NATIONAL ELECTRIC CODE
4. CONTRACTOR TO ENSURE COMPLIANCE WITH THE LATEST REQUIREMENTS OF NFPA, THE 2018 INTERNATIONAL FIRE CODES, AND THOSE OF ANY CITY, STATE, OR FEDERAL AGENCY HAVING JURISDICTION OVER THIS PROJECT AND FIRE MARSHALL.
5. DEFFICIENCIES FOUND DURING CONSTRUCTION SHALL BE REPAIRES PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY BY CITY.
6. THE CONTRACTOR SHALL SUBMIT PLANS AND CALCULATION SEALED BY A LICENSED ENGINEER OR NICET LEVEL III DESIGNER TO THE AHJ FOR APPROVAL. APPROVED PLANS SHALL REMAIN ON THE JOB SITE FOR THE DURATION OF THE PROJECT.
7. PLANS INDICATE GENERAL SCOPE OF WORK. REFER TO CONTRACT DOCUMENTS. AND SPECIFICATIONS FOR DETAILS ON ENTIRE SCOPE OF WORK. LOCATIONS OF SPRINKLER OUTLETS, BRANCH LINES AND FEED MAINS ARE DIAGRAMMATIC. THE DRAWINGS ARE NOT MEANT TO SHOW ALL OFFSETS AND PIPING ELEVATIONS TO INSTALL THE PROPOSED SPRINKLER SYSTEM.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE WORK WITH THAT OF ALL OTHER TRADES. THE INSTALLING CONTRACTOR SHALL COORDINATE ALL WORK TO THE EXISTING AND/OR NEW FIELD CONDITIONS.
9. ANY INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND DESIGN/BUILDER, AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF WORK. ANY SIZES OF NEW PIPING SHOWN ON THE PLAN ARE MEANT TO BE A GUIDE FOR ESTIMATING THE WORK.
10. THE FIRE PROTECTION CONTRACTOR SHALL PERFORM HYDRAULIC CALCULATIONS TO VERIFY PIPE SIZES ARE ADEQUATE TO PROVIDE THE NECESSARY SYSTEM DEMANDS. DESIGN CALCULATIONS SHALL INCLUDE SEISMIC BRACING WHERE REQUIRED BY BUILDING CODE AND NFPA 13.
11. PROVIDE A NEW FLOW TEST BY THE AUTHORITY HAVING JURISDICTION AND NFPA. USE THE RESULTS OF THE NEW HYDRANT FLOW TEST TO HYDRAULICALLY DESIGN THE SPRINKLER SYSTEMS WITHIN THE BUILDING.
12. PROVIDE SEAL AGAINST WATER INTRUSION AT PIPE ENTRANCE.
13. DESIGN CRITERIA:
    A. SPRINKLER SYSTEMS SHALL BE HYDRAULICALLY DESIGNED AND CALCULATED BY THE FIRE PROTECTION CONTRACTOR. THE FIRE PROTECTION CONTRACTOR SHALL SUBMIT ALL REQUIRED HYDRAULIC CALCULATIONS TO PROVE THE HYDRAULICALLY MOST REMOTE AREAS ARE BEING PROTECTED PER SYSTEM AND OCCUPANCY HAZARD. FABRICATION DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION AND INSURANCE UNDERWRITERS PRIOR TO SUBMITTING TO THE ENGINEER FOR REVIEW. FABRICATION DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BEAR THE SEAL OF REGISTRATION OF A QUALIFIED REGISTERED PROFESSIONAL FIRE PROTECTION ENGINEER IN GEORGIA. MAINTAIN A MINIMUM OF 10 PSI CUSHION BETWEEN REQUIRED PRESSURE AND AVAILABLE PRESSURE. PROVIDE 20 PSI MINIMUM PRESSURE AT SPRINKLER HEADS. COMPLY WITH ALL UNDERWRITERS' AND CODE AUTHORITIES REQUIREMENTS INCLUDING MAXIMUM WATER FLOW VELOCITY IN THE FIRE PROTECTION SYSTEM.
    B. AUTOMATIC SPRINKLER SYSTEMS IN AREAS OF ORDINARY HAZARD GROUP-2 OCCUPANCY SHALL BE DESIGNED WITH A MINIMUM DESIGN DENSITY OF A 0.20 GPM PER SQUARE FOOT. MAXIMUM PROTECTION AREA PER SPRINKLER HEAD SHALL BE 130 SQUARE FEET. PROVIDE A 250 GPM HOSE ALLOWANCE. INCREASE DESIGN AREA FOR SLOPED CEILINGS.
14. FIRE PROTECTION ENGINEER SHALL CONFIRM FIELD CONDITIONS AND PROVIDE DESIGN COMPLIANT WITH THE REQUIREMENTS OF NFPA STANDARDS, IBC/IFC CODE, AND THE AUTHORITY HAVING JURISDICTION.
15. CONTRACTOR SHALL COORDINATE FACP CELLULAR ALERT PHONE NUMBER WITH OWNER'S THIRD PARTY MONITORING CONTRACTOR, SECURITY CENTRAL.
16. THE INTENDED DESIGN IS FOR A LIMITED AREA SPRINKLER SYSTEM PROVIDED PARTIAL COVERAGE OF A NEW BUILDING. APPROVAL BY THE LOCAL AUTHORITY HAVING JURISDICTION IS REQUIRED.
17. PROVIDE FIRE ALARM CONTROL PANEL WITH THE FOLLOWING:
    A. CELLULAR COMMUNICATION DEVICE FOR TRANSMITTING ALARMS TO A CONSTANTLY ATTENDED REMOTE MONITORING LOCATION.
    B. A DISCRETE OUTPUT TO LOCAL PANEL TO ALARM THE OWNER'S SCADA SYSTEM DURING A FIRE EVENT.
    C. INPUTS INCLUDING BUT NOT LIMITED TO: THE SPRINKLER FLOW ALARM, THE TAMPER SWITCHES ON SPRINKLER WATER SHUTOFFS, SMOKE DETECTOR ABOVE THE FACP.

3 # CHEROKEE COUNTY FIRE MARSHAL NOTES:

1. ALL BUILDINGS OVER TWO STORIES IN HEIGHT OR MORE THAN 12,000 SQUARE FEET ARE REQUIRED TO COMPLY WITH THE 2018 IFC SECTION 510 AND NFPA 1225 EMERGENCY RESPONDER RADIO COVERAGE. ADDITIONAL REQUIREMENTS MAY APPLY. IF THERE IS NOT PROPER RADIO COVERAGE FROM THE INSIDE OF THE BUILDING, YOU WILL BE REQUIRED TO INSTALL A DAS FOR COMPLIANCE WITH THIS CODE. THE CODE IS AVAILABLE ON OUR WEBSITE UNDER THE 2018 IFC SECTION 510 AND NFPA 1225 EMERGENCY RESPONDER RADIO COVERAGE.
2. THE FOLLOWING PLANS HAVE BEEN REVIEWED BY THE CHEROKEE COUNTY FIRE MARSHAL'S OFFICE. THE DRAWINGS WERE REVIEWED UNDER THE APPLICABLE LAWS ADOPTED AT THE TIME. EVERY EFFORT WAS MADE TO ENSURE CODE COMPLIANCE. ANY CODE VIOLATIONS THAT WERE MISSED DURING THE PLAN REVIEW ARE THE OWNER'S RESPONSIBILITY AND MUST BE CORRECTED TO RECEIVE FINAL APPROVAL AND/OR A CERTIFICATE OF OCCUPANCY (CO).
3. A PRE-CONSTRUCTION MEETING, 50%, 80%, AND 100% INSPECTIONS ARE REQUIRED UNLESS AT THE PRECONSTRUCTION MEETING IT IS DETERMINED THAT ALL INSPECTIONS ARE NOT REQUIRED.
4. ALL FIRE INSPECTIONS ARE SCHEDULED THROUGH THE CITYVIEW PORTAL UNDER THE SAME PERMIT NUMBER AS THE BUILDING PERMIT. THIS MUST BE DONE BY THE CONTRACTOR.
5. UNIT EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING:
   (1) THE BATTERIES SHALL BE OF SUITABLE RATING AND CAPACITY TO SUPPLY AND MAINTAIN THE TOTAL LAMP LOAD ASSOCIATED WITH THE UNIT IN ACCORDANCE WITH THE FOLLOWING:
      A. FOR A PERIOD OF AT LEAST 1-1/2 HOURS WITHOUT THE VOLTAGE FALLING BELOW 87-1/2 PERCENT OF NORMAL BATTERY VOLTAGE.
      B. THE UNIT EQUIPMENT SHALL SUPPLY AND MAINTAIN NOT LESS THAN 60 PERCENT OF THE INITIAL EMERGENCY ILLUMINATION FOR A PERIOD OF AT LEAST 1-1/2 HOURS.
   (2) UNIT EQUIPMENT SHALL BE PERMANENTLY FIXED (I.E., NOT PORTABLE) IN PLACE AND SHALL HAVE ALL WIRING TO EACH UNIT INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ANY OF THE WIRING METHODS IN CHAPTER 3. FLEXIBLE CORD-AND-PLUG CONNECTION SHALL BE PERMITTED, PROVIDED THAT THE CORD DOES NOT EXCEED 900 MM (3 FT) IN LENGTH.
   (3) THE BRANCH CIRCUIT FEEDING THE UNIT EQUIPMENT SHALL BE ONE OF THE FOLLOWING:
      A. THE SAME BRANCH CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THE AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES
      B. WHERE THE NORMAL LIGHTING CIRCUIT IS SERVED BY ONE OR MORE BRANCH CIRCUITS, A SEPARATE BRANCH CIRCUIT, PROVIDED WITH A LOCK-ON FEATURE, THAT ORIGINATES FROM THE SAME PANELBOARD AS THE NORMAL LIGHTING CIRCUITS. THE BRANCH CIRCUIT DISCONNECTING MEANS FOR THIS BRANCH CIRCUIT SHALL BE PROVIDED WITH A LOCK-ON FEATURE.
   (4) THE BRANCH CIRCUIT THAT FEEDS UNIT EQUIPMENT SHALL BE CLEARLY IDENTIFIED AT THE DISTRIBUTION PANEL.
   (5) EMERGENCY LUMINAIRES THAT OBTAIN POWER FROM A UNIT EQUIPMENT AND ARE NOT PART OF THE UNIT EQUIPMENT SHALL BE WIRED TO THE UNIT EQUIPMENT AS REQUIRED BY 700.10 AND BY ONE OF THE WIRING METHODS OF CHAPTER 3.
   (6) REMOTE HEADS PROVIDING LIGHTING FOR THE EXTERIOR OF AN EXIT DOOR SHALL BE PERMITTED TO BE SUPPLIED BY THE UNIT EQUIPMENT SERVING THE AREA IMMEDIATELY INSIDE THE EXIT DOOR.
6. THERE MUST BE A KNOX BOX ON ALL BUILDINGS. KNOX BOXES FOR BUILDING ACCESS BY EMERGENCY PERSONNEL CAN NOW BE ORDERED ONLINE DIRECTLY THROUGH THE KNOX-BOX WEBSITE [KNOXBOX.COM]. WHEN MAKING PURCHASES FROM THEIR WEBSITE, PLEASE MAKE SURE TO CHOOSE "CHEROKEE CO FIRE/EMS" AS THE RESPONDING FIRE DEPARTMENT. CHEROKEE CO FIRE/EMS 1130 BLUFFS PKWY CANTON, GA 30114-5632.
7. FIRE ALARM AND SPRINKLER PLANS ARE TO BE SUBMITTED SEPARATELY BY APPLYING FOR A FIRE PREVENTION PERMIT THROUGH THE CITYVIEW PORTAL.
8. THE CHEROKEE FIRE MARSHAL'S OFFICE DOES NOT ALLOW SPRINKLER PIPES IN THE ATTICS OF NFPA 13 SYSTEMS. ALL SPRINKLER HEADS MUST BE SIDEWALL-TYPE HEADS.

ORDINARY HAZARD, GROUP 2 OCCUPANCY WET PIPE SYSTEM
0.20 GPM/SQ. FT. - REMOTE 1,500 SQ. FT.

EXTRA HAZARD, GROUP 2 OCCUPANCY DRY PIPE FLUORINE FREE FOAM SUPPRESSION SYSTEM
0.30 GPM/SQ. FT. - REMOTE 2,500 SQ. FT.

REV	ISSUED FOR	DATE	BY
4	CONFORMED SET	03/2026	DS
3	ADDENDUM No. 1	11/2025	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

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DRAWN BY: P. GREER
CHECKED BY: T. MONAHAN
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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

GENERAL
FIRE PROTECTION
LEGEND, ABBREVIATIONS AND GENERAL NOTES

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 26-FP-001

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-H&P.rvt
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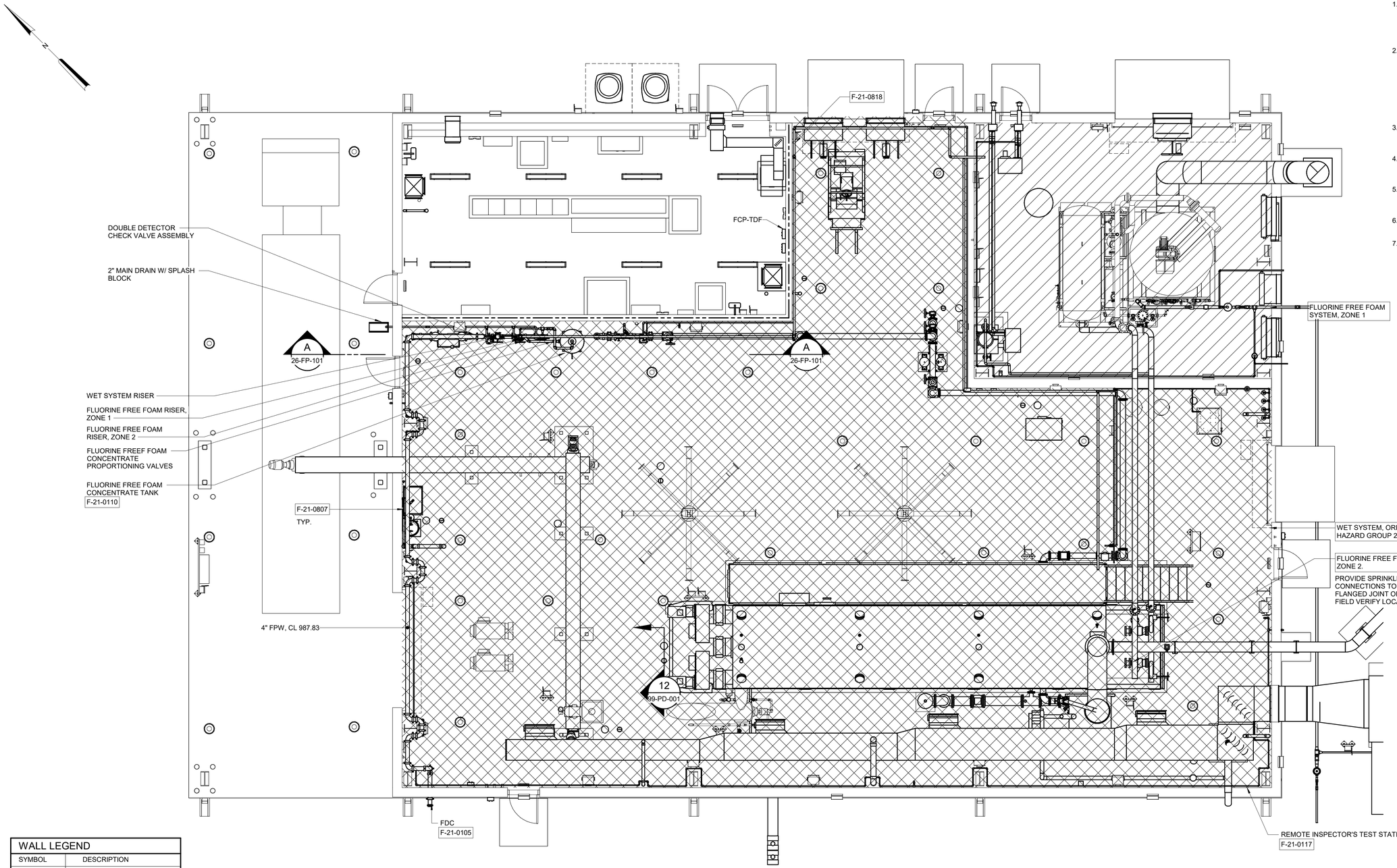

NOTES:

1. THE FLUORINE FREE FOAM-WATER FIRE SUPPRESSION SYSTEM SHALL HAVE (2) ZONES. THE THERMAL HEATER ROOM AND AND THE CONNECTIONS TO THE THERMAL FLUID PIPING TO THE THERMAL DRYER EQUIPMENT.
2. THE THERMAL HEATER ROOM, WITH THERMAL FLUID HEATER, PUMPS AND ASSOCIATED EQUIPMENT SHALL BE PROTECTED BY AN OVERHEAD AUTOMATIC FOAM-WATER DELUGE SYSTEM UTILIZING FOAM-WATER SPRINKLERS. THE SYSTEM SHALL BE DESIGNED TO FLOW AT THE MINIMUM RATE OF 59 GPM PER THE FOAM PROPORTIONER REQUIREMENTS FOR A MINIMUM DURATION OF 10 MINUTES.
3. THE THERMAL DRYER PROCESS AREA SHALL BE PROTECTED BY A WET AUTOMATIC FIRE SPRINKLER SYSTEM.
4. THE ELECTRICAL ROOM SHALL NOT BE PROTECTED BY AN AUTOMATIC FIRE SUPPRESSION SYSTEM, BUT BE ENCLOSED WITHINA 2-HOUR RATED ASSEMBLY.
5. ACCEPTANCE TESTING OF THE FOAM-WATER DELUGE SYSTEMS INCLUDES UTILIZING SURROGATE TEST CONCENTRATE.
6. SYSTEM PIPING SHALL BE THOROUGHLY FLUSHED AFTER ANY FOAM-WATER FLOW OR TEST FLOW.
7. PROVIDE A SIGN AT THE FDC WHICH READS " FIRE DEPARTMENT CONNECTION. THIS CONNECTION FEEDS A FOAM-WATER SPRINKLER SYSTEM. DO NOT PUMP AT PRESSURES EXCEEDING 125 PSI UNTIL FOAM LIQUID SUPPLY IS EXHAUSTED. IF INCIDENT IS CONTROLLD BY FOAM BLANKET, DO NOT DESTROY FOAM BL;ANKET BY EXCESSIVE APPLICATION OF WATER.

WALL LEGEND	
SYMBOL	DESCRIPTION
	2 HOUR RATED WALL
	NON-RATED WALL

TOP PLAN

3/16" = 1'-0"

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

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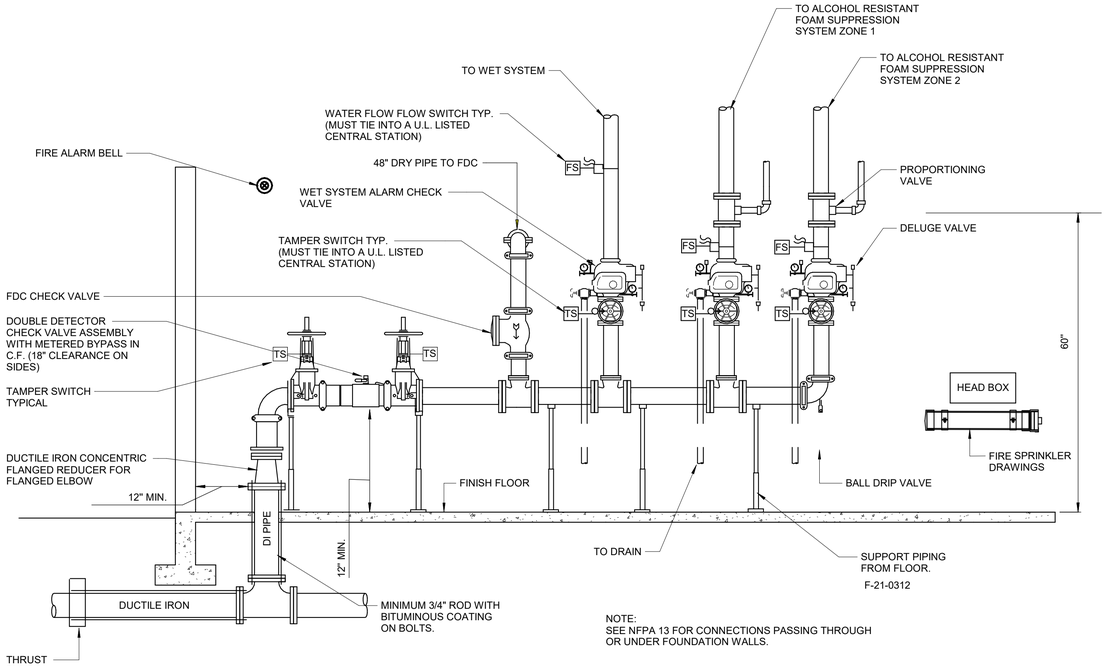
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
FIRE PROTECTION
TOP PLAN

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 26-FP-100

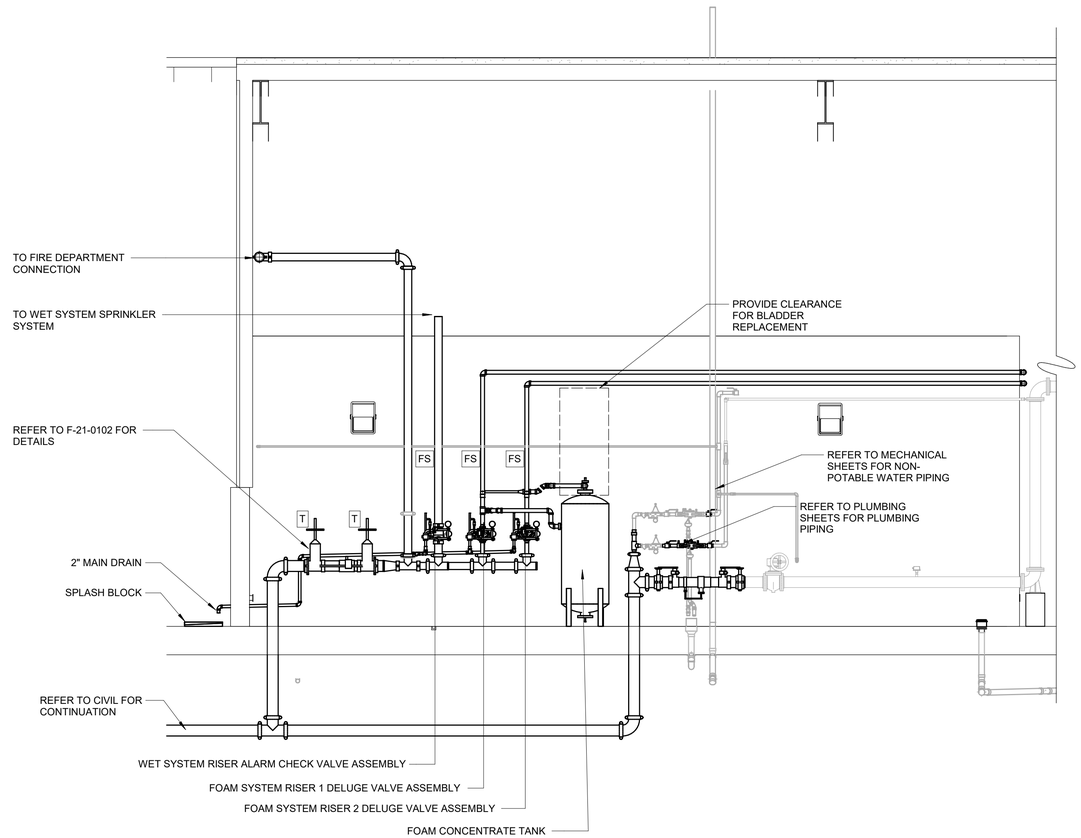
Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-H&P.rvt
3/9/2026 11:19:06 AM



NOTE:
SEE NFPA 13 FOR CONNECTIONS PASSING THROUGH OR UNDER FOUNDATION WALLS.

FIRE SUPPRESSION RISER

F-21-0102



SECTION A

1/4" = 1'-0" 26-FP-100

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: T. NOLAN
DRAWN BY: P. GREER
CHECKED BY: T. MONAHAN

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY TIMOTHY L. MONAHAN, P.E. No. 045504 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

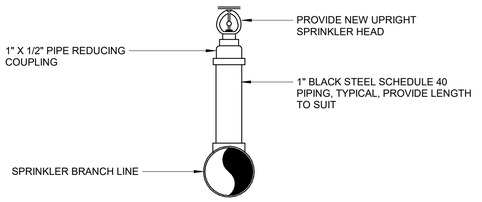
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
FIRE PROTECTION
SECTIONS

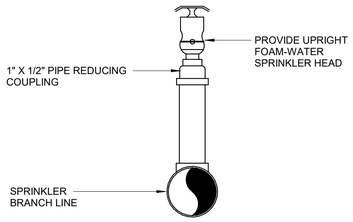
DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 26-FP-101

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-H&P.rvt
3/9/2026 11:19:37 AM



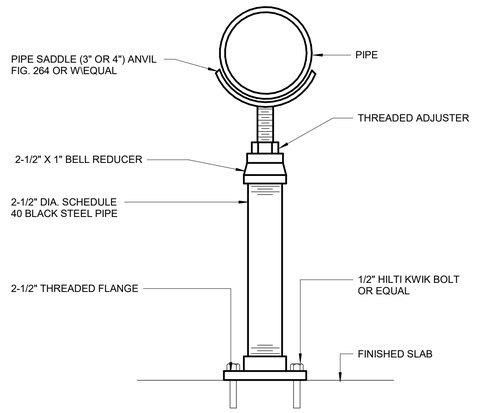
UPRIGHT HEAD

F-21-0113



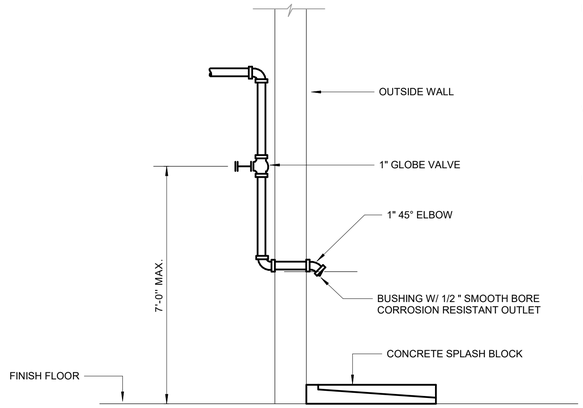
UPRIGHT FOAM HEAD

F-21-0119



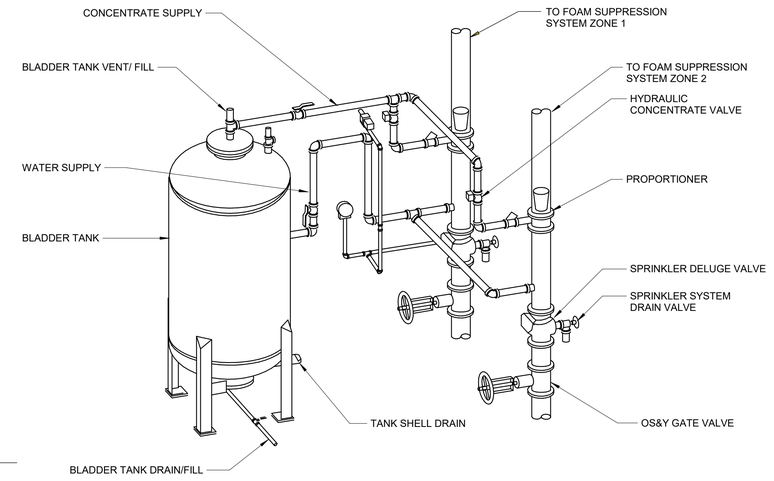
PIPE SUPPORT STAND

F-21-0812



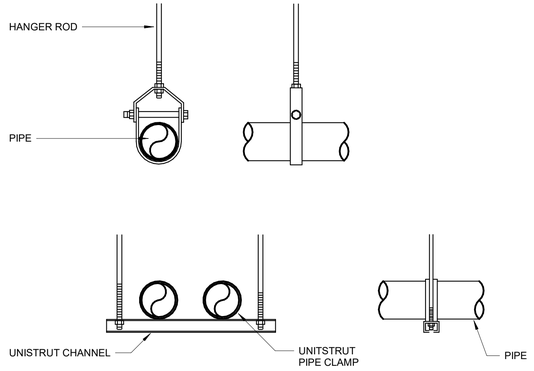
WET SYSTEM INSPECTOR'S TEST STATION

F-21-0117



AR FOAM TANK PIPING

F-21-0110

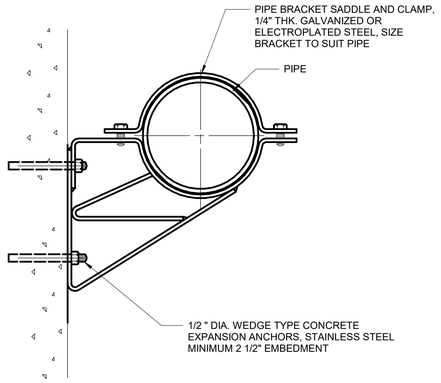


NOTES

1. ATTACH SUPPORTS FOR ALL PIPING SUSPENDED FROM THE STEEL STRUCTURE TO THE TOP CORD OF JOISTS OR BEAMS.

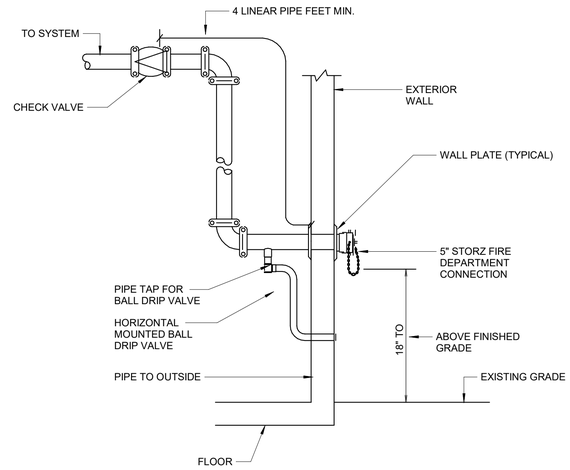
PIPE HANGERS

P-21-0807



PIPE WALL PIPE SUPPORT

F-21-0818



FLUSH FIRE DEPARTMENT CONNECTION

F-21-0105

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

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DESIGNED BY: T. NOLAN
DRAWN BY: P. GREER
CHECKED BY: T. MONAHAN
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CONFORMED DRAWING

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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

FIRE PROTECTION STANDARD DETAILS
FIRE PROTECTION DETAILS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 99-FPD-001

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-28-TDF-H&P.rvt
3/9/2026 11:19:06 AM

LIGHTING

X DENOTES FIXTURE TYPE (TYP.)
SEE DRAWING 00-E-002 FOR FIXTURE SCHEDULE
# DENOTES CIRCUIT NUMBER (TYP.)
POSITIONS OF X/# MAY VARY WITH RESPECT TO SYMBOL

- RECTANGULAR FIXTURE
- LEFT: CEILING MOUNTED FIXTURE
  RIGHT: WALL MOUNTED FIXTURE
- EMERGENCY WALL-MOUNTED FIXTURE:
  LEFT: STANDARD
  RIGHT: REMOTE-HEAD
- LEFT: CEILING MOUNTED EXIT SIGN
  RIGHT: WALL MOUNTED EXIT SIGN
  SHADED PORTION DENOTES SIGN FACE
- POLE-MOUNTED FIXTURE
- PHOTOCELL
- LEFT: CEILING MOUNTED OCCUPANCY SENSOR
  RIGHT: WALL MOUNTED OCCUPANCY SENSOR
  X DENOTES TYPE

RECEPTACLES

X DENOTES RECEPTACLE TYPE (TYP.):
GFCI DENOTES GROUND FAULT CIRCUIT INTERRUPT
UPS DENOTES UNINTERRUPTIBLE POWER SUPPLY
WPCR DENOTES WEATHERPROOF CORROSION RESISTANT
# DENOTES CIRCUIT NUMBER (TYP.)
POSITIONS OF X/# MAY VARY WITH RESPECT TO SYMBOL

- RECEPTACLES:
  LEFT: SIMPLEX
  MIDDLE: DUPLEX
  RIGHT: QUADRUPLEX
- MULTI-OUTLET RECEPTACLE:
  LEFT: SIMPLEX
  RIGHT: DUPLEX
- OTHER RECEPTACLES:
  LEFT: 240 VOLT
  RIGHT: SPECIAL PURPOSE
- FLOOR-MOUNTED RECEPTACLES:
  LEFT: SIMPLEX
  MIDDLE: DUPLEX
  RIGHT: QUADRUPLEX

HVAC AND FIRE ALARM

- FIRE ALARM CONTROL PANEL
- FIRE ALARM ANNUNCIATOR PANEL
- FIRE ALARM PULL STATION
- FIRE ALARM INDICATOR:
  X DENOTES ALERT TYPE (TYP.):
  A DENOTES AUDIBLE
  V DENOTES VISIBLE (# DENOTES STROBE INTENSITY)
- FIRE ALARM INDICATOR MOUNTED
  ABOVE A FIRE ALARM PULL STATION
- DUCT DETECTOR
- SMOKE DETECTOR:
  X DENOTES TYPE:
  Z DENOTES IONIZATION
  P DENOTES PHOTOELECTRIC
  T DENOTES THERMAL
- HEAT DETECTOR
- THERMOSTAT
- AMBIENT TEMPERATURE TRANSMITTER

SWITCHES

- WALL SWITCH:
  X DENOTES TYPE:
  NO SUBSCRIPT DENOTES SINGLE-POLE SWITCH
  3 DENOTES 3-WAY SWITCH
  4 DENOTES 4-WAY SWITCH
  M DENOTES MANUAL MOTOR STARTER
  # DENOTES CIRCUIT NUMBER
  WPCR DENOTES WEATHERPROOF CORROSION RESISTANT
  POSITIONS OF X/# MAY VARY WITH RESPECT TO SYMBOL
- COMBINATION MOTOR STARTER
- DISCONNECT SWITCH
- LOCAL CONTROL STATION
- LOCAL CONTROL STATION WITH LOCKABLE COVER

SINGLE-LINE DIAGRAMS

- ATS
  480V, 800A
  3Ø 4W 4P
  65kA
  OPEN TRANSITION
  CONTACTOR-STYLE ATS OR MTS
- ATS
  480V, 800A
  3Ø 4W 4P
  65kA
  OPEN TRANSITION
  CONTACTOR-STYLE ATS OR MTS WITH OFF POSITION
- ETU: 800AF, 800AP, 800AT, LSIG
  ATS
  480V, 800A
  3Ø 4W 4P
  65kA
  OPEN TRANSITION
  CONTACTOR-STYLE ATS OR MTS, SERVICE-ENTRANCE RATED
- ATS
  480V, 800AF/800AT
  3Ø 4W 4P
  65kA
  OPEN TRANSITION
  MCCB-STYLE ATS OR MTS
- ATS
  480V, 800AF/800AT
  3Ø 4W 4P
  65kA
  OPEN TRANSITION
  DRAWOUT CB-STYLE ATS OR MTS

MISC PLAN VIEW SYMBOLS

- EQUIPMENT CONNECTION
- GROUND RODS:
  LEFT: BURIED
  RIGHT: IN TESTWELL
- DUCTBANK SECTION CUT IDENTIFIER:
  DBXX DENOTES DUCTBANK ID
  EXX DENOTES DRAWING NUMBER WHERE SECTION CUT IS LOCATED
- DUCTBANK TAG:
  X DENOTES DUCTBANK ID
- CABLE TRAY TAG:
  X DENOTES CABLE TRAY ID
  Y DENOTES SCHEDULE REFERENCE
- INSTRUMENT TAG:
  X DENOTES INSTRUMENT TYPE
  # DENOTES INSTRUMENT NUMBER
  SEE DRAWING 00-I-001 FOR INSTRUMENT ABBREVIATIONS
- CONDUIT TAGS:
  P DENOTES POWER
  C DENOTES CONTROL
  I DENOTES INSTRUMENTATION
  XXXX DENOTES CONDUIT ID
  XXX-XXX DENOTES CONDUIT ID

COMMUNICATIONS

- TELEPHONE OR NETWORK DROP
- FLOOR-MOUNTED TELEPHONE OR NETWORK DROP
- PAGER RECEPTACLE
- HORN/LIGHT DEVICE
- PA UNIT
- WIRELESS ACCESS POINT:
  LEFT: CEILING MOUNT
  RIGHT: WALL MOUNT

WIRING

- FLEXIBLE CONDUIT
- CONDUIT EXPOSED
- CONDUIT CONCEALED
- CONCRETE ENCASED DUCTBANK
- CONCRETE ENCASED CONDUIT
- DIRECT BURIED CONDUIT
- LEFT: CONDUIT RISE (TURN UP)
  RIGHT: CONDUIT DROP (TURN DOWN)

SINGLE-LINE DIAGRAMS, CONT'D.

- 500kW
  480V,3Ø,4W
  GENERATOR
- XFMR
  kVA
  480-120/208V
  3P/4W
  DRY TRANS
  TRANSFORMER
- PROTECTIVE RELAY:
  NUMBER DENOTES IEEE DEVICE FUNCTION
- 100A
  FUSE
- 100A 3P / 100A
  FUSED LOADBREAK SWITCH
- 30A 3P / 30A 3P 20A
  DISCONNECT SWITCH
  LEFT: NON-FUSED
  RIGHT: FUSED
  "MFR." INSTEAD OF FUSE SIZE: REFERENCE SECTION 26 28 16.16
- N.C. 800AF 800AP 800AT ALSIGZ CTR / N.C. 800AF 800AP 800AT ALSIGZ CTR
  LOW VOLTAGE POWER CIRCUIT BREAKER:
  LEFT: FIXED-MOUNT
  RIGHT: DRAWOUT
  E.O. DENOTES ELECTRICALLY OPERATED
  LSIG DENOTES INSTALLED TRIP FUNCTIONS:
  A DENOTES ARC REDUCTION/MAINTENANCE MODE
  L DENOTES LONG-TIME
  S DENOTES SHORT-TIME
  I DENOTES INSTANTANEOUS
  G DENOTES GROUND FAULT
  Z DENOTES ZONE-SELECTIVE INTERLOCKING
  CTR DENOTES BREAKER-SPECIFIC CT AND RATIOS
- 52 1200A N.C. E.O. BATT.
  MEDIUM VOLTAGE DRAWOUT POWER CIRCUIT BREAKER:
  E.O. DENOTES ELECTRICALLY OPERATED
  BATT. DENOTES BATTERY BACKUP POWER
- 100AF 100AT / ETU 800AF 800AP 800AT LSIG
  LOW VOLTAGE MOLDED CASE CIRCUIT BREAKER
  LEFT: THERMAL-MAGNETIC TRIP UNIT
  RIGHT: ELECTRONIC TRIP UNIT
- MCP
  MOTOR CIRCUIT PROTECTOR
- GROUND
- 600:5 (3)
  CT:
  NUMBERS DENOTE CT WINDING RATIO AND CT QUANTITY
- 50:5 (1)
  GFCT:
  NUMBERS DENOTE GFCT WINDING RATIO AND GFCT QUANTITY
- 480:120 (3)
  PT:
  NUMBERS DENOTE PT WINDING VOLTAGES AND PT QUANTITY
- DRAW-OUT ELEMENT
- X / X
  LEFT: PANELBOARD
  RIGHT: COMBINATION POWER UNIT
  X DENOTES PANEL ID
- SURGE ARRESTOR

SINGLE-LINE DIAGRAMS, CONT'D.

- #%
  LEFT: RESISTOR
  RIGHT: LINE REACTOR
  #% DENOTES IMPEDANCE
- CAPACITOR
- ST
  SHUNT TRIP
- SPD XXXkA
  SURGE PROTECTIVE DEVICE
- K
  KIRK-KEY INTERLOCK
- HP RPM TSH CF TE ME
  MOTOR AND TYPICAL ADDITIONAL DEVICES:
  MOTOR SPACE HEATER
  TSH: TEMPERATURE SWITCH
  CF: COOLING FAN
  TE: TEMPERATURE ELEMENT
  ME: MOISTURE DETECTOR
- XXX-YYYY
  INSTRUMENT TAG:
  X DENOTES INSTRUMENT TYPE
  Y DENOTES INSTRUMENT NUMBER
  SEE DRAWING 00-I-001 FOR INSTRUMENT ABBREVIATIONS
- MCP / X
  FULL VOLTAGE STARTERS:
  X DENOTES NEMA SIZE
  DP DENOTES DEFINITE PURPOSE CONTACTOR
  LEFT: FVNR STARTER
  MIDDLE: FVR STARTER
  RIGHT: TWO-WINDING FVNR
- MCP / 6P VFD
  ETU 400AF 400AP 400AT LSI / 18P VFD / RVSS
  LEFT: VFD
  MIDDLE: VFD WITH HARMONIC FILTER
  RIGHT: VFD WITH RVSS BYPASS
- MCP / 100AF 100AT / FILTER / 6P VFD
- MCP / RVSS / RVSS
  LEFT: RVSS
  RIGHT: RVSS WITH FVNR BYPASS
  X DENOTES NEMA SIZE
- MCP / X X / #% / X
  RVAT STARTER:
  X DENOTES NEMA SIZE
  #% DENOTES TAP SETTING
- 400A 400A
  MEDIUM VOLTAGE VACUUM CONTACTOR
  LEFT: FIXED
  RIGHT: DRAWOUT

ELEMENTARY CONTROL SCHEMATICS

- OL SSOL
  OVERLOAD RELAY:
  LEFT: THERMAL
  RIGHT: SOLID-STATE
- ON OFF OFF JOG
  BASIC SELECTOR SWITCH:
  LEFT: STANDARD
  RIGHT: SPRING-RETURN
  TEXT DENOTES LEGEND PLATE
- H A FWD REV XOO XOO OOX OOX
  MULTI-POSITION SELECTOR SWITCH:
  LEFT: STANDARD
  RIGHT: DOUBLE SPRING-RETURN
  O: OFF
  H: HAND
  L: LOCAL
  A: AUTO
  R: REMOTE
  FWD: FORWARD
  REV: REVERSE
  X DENOTES ACTIVE CONTACT POSITION(S)
- START STOP STOP - L.O. E-STOP
  PUSHBUTTON SWITCHES:
  TOP LEFT: N.O.
  TOP RIGHT: N.C.
  BOTTOM LEFT: N.C. WITH LOCKOUT
  BOTTOM RIGHT: MUSHROOM HEAD
  TEXT DENOTES LEGEND PLATE

	NO	NC
DISCONNECT SWITCHES		
CONTACTS	X	X
TORQUE SWITCH	–	NS

NOTATION LEGEND:
NO/NC: NORMALLY OPEN/CLOSED
HO/HC: HELD OPEN/CLOSED
RO/RC: RISE-TO-OPEN/CLOSE
FO/FC: FALL-TO-OPEN/CLOSE
TO/TC: TIME-OPEN/CLOSE

CONTACTS:
TEXT DENOTES COIL ID

SWITCHES:
TEXT DENOTES TAG NUMBER

	NO	NOHC	NC	NCHO
LIMIT SWITCHES	LS	LS	LS	LS

FORM C CONTACTS:
LEFT: STANDARD
RIGHT: TIMED (SPECIAL)
LEFT: TIMED (ON-DELAY)
RIGHT: TIMED (OFF-DELAY)

NOTE: FORM C CONTACTS ARE NOT NECESSARILY SHOWN AS SUCH ON THE DRAWINGS. REFERENCE SECTION 26 09 16 FOR COMPONENT SPECIFICATIONS.

	NORC	NOFC	NCRO	NCFO
TEMPERATURE SWITCHES/ THERMOSTATS	TS	TS	TS	TS
PRESSURE SWITCHES	PS	PS	PS	PS
LEVEL SWITCHES	LS	LS	LS	LS
FLOW SWITCHES	FS	FS	FS	FS

	ON DELAY		OFF DELAY		SPECIAL	
	NOTC	NCTO	NOTO	NCTC	NO	NC
TIME DELAY CONTACTS	TD	TD	TD	TD	TR	TR

COIL:
LEFT: POWER-TRIGGERED
RIGHT: SIGNAL-TRIGGERED
X DENOTES TYPE:
M DENOTES MOTOR STARTER
CR DENOTES CONTROL RELAY
TR/TD DENOTES TIMING RELAY/TIME DELAY RELAY
[R]: TIMER RANGE
[S]: TIMER SETPOINT
PR DENOTES INTERPOSING PILOT RELAY
LC DENOTES LIGHTING CONTACTOR
Y DENOTES FUNCTION TAG OR LINE REFERENCE

- X PTT
  INDICATOR LIGHT:
  LEFT: STANDARD/RIGHT: PUSH-TO-TEST
  X DENOTES COLOR
- MECHANICAL INTERLOCK CONNECTION
- ETM RUN TIME METER
- SV SOLENOID VALVE
- MPR MOTOR PROTECTION RELAY
- 480VAC / 120VAC
  CONTROL POWER TRANSFORMER
- MOTOR HEATER
  MOTOR SPACE HEATER

EQUIPMENT/DEVICE LOCATION SYMBOLS

- LOCATED IN MCC
- LOCATED IN STAND-ALONE MOTOR STARTER/CONTROLLER
- LOCATED IN FIELD
- LOCATED AT PANEL:
  X DENOTES PANEL ID:
  L DENOTES LOCAL CONTROL STATION

REV	ISSUED FOR	DATE	BY
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1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER

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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

GENERAL ELECTRICAL LEGEND AND SYMBOLS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 00-E-001

File: C:\USERS\DELAM\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\00-E-001 Saved by DELAM Save date: 3/4/2026 7:13 AM
PLOT DATE: 3/4/2026 8:39 AM BY: DELAM

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	LAMP/ FIXTURE WATTAGE	DESCRIPTION	MANUFACTURER AND MODEL
LP1	75W (MAX)	PENDANT-MOUNTED, 120-277VAC, LED LIGHT FIXTURE, COLOR TEMPERATURE OF 4000K, 80CRI, LINEAL RIBBED FROSTED LENS, MEDIUM DISTRIBUTION, GASKETED FIBERGLASS HOUSING, STAINLESS STEEL LATCHES, 4FT, 12000 LUMEN MINIMUM, AND WET LOCATION LISTED.	HOLOPHANE EMS LED SERIES, OR ENGINEER APPROVED EQUAL.
LP2	83W (MAX)	PENDANT-MOUNTED, 120-277VAC, LED LIGHT FIXTURE, COLOR TEMPERATURE OF 4000K, 80 CRI, PRISMATIC BOROSILICATE GLASS LENS, MEDIUM DISTRIBUTION WITH UPLIGHT, CORROSION-RESISTANT WHITE CAST ALUMINUM HOUSING, 12000 LUMEN MINIMUM.	HOLOPHANE PETROLUX PXHW SERIES, OR ENGINEER APPROVED EQUAL.
LP3	83W (MAX)	PENDANT-MOUNTED, 120-277VAC, LED LIGHT FIXTURE, COLOR TEMPERATURE OF 4000K, 80 CRI, PRISMATIC BOROSILICATE GLASS LENS, MEDIUM DISTRIBUTION WITH UPLIGHT, CORROSION-RESISTANT WHITE CAST ALUMINUM HOUSING, 12000 LUMEN MINIMUM, AND CLASS I DIV. 1/2, CLASS II DIV. 1/2 LISTED.	HOLOPHANE PETROLUX PXHH SERIES, OR ENGINEER APPROVED EQUAL.
LP3A	83W (MAX)	SAME AS LP3 EXCEPT WITH INTERNALLY MOUNTED HAZARDOUS LOCATION EMERGENCY BATTERY PACK.	HOLOPHANE PETROLUX PXHH SERIES, OR ENGINEER APPROVED EQUAL.
LP4	83W (MAX)	PENDANT-MOUNTED, 120-277VAC, LED LIGHT FIXTURE, COLOR TEMPERATURE OF 3000K, 80 CRI, PRISMATIC BOROSILICATE GLASS LENS, MEDIUM DISTRIBUTION WITH UPLIGHT, CORROSION-RESISTANT WHITE CAST ALUMINUM HOUSING, 12000 LUMEN MINIMUM, AND CLASS I DIV. 1/2, CLASS II DIV. 1/2 LISTED.	HOLOPHANE PETROLUX PXHH SERIES, OR ENGINEER APPROVED EQUAL.
LP5	83W (MAX)	PENDANT-MOUNTED, 120-277VAC, LED LIGHT FIXTURE, COLOR TEMPERATURE OF 3000K, 80 CRI, PRISMATIC BOROSILICATE GLASS LENS, MEDIUM DISTRIBUTION WITH UPLIGHT, CORROSION-RESISTANT WHITE CAST ALUMINUM HOUSING, 8000 LUMEN MINIMUM.	HOLOPHANE PETROLUX PXLW SERIES, OR ENGINEER APPROVED EQUAL.
LP5A	83W (MAX)	SAME AS LP5 EXCEPT WITH EMERGENCY BATTERY PACK.	HOLOPHANE PETROLUX PXLW SERIES, OR ENGINEER APPROVED EQUAL.
LP6	83W (MAX)	PENDANT-MOUNTED, 120-277VAC, LED LIGHT FIXTURE, COLOR TEMPERATURE OF 3000K, 80 CRI, PRISMATIC BOROSILICATE GLASS LENS, MEDIUM DISTRIBUTION WITH UPLIGHT, CORROSION-RESISTANT WHITE CAST ALUMINUM HOUSING, 8000 LUMEN MINIMUM, AND CLASS I DIV. 1/2, CLASS II DIV. 1/2 LISTED.	HOLOPHANE PETROLUX PXLH SERIES, OR ENGINEER APPROVED EQUAL.
LP6A	83W (MAX)	SAME AS LP6 EXCEPT WITH EMERGENCY BATTERY PACK.	HOLOPHANE PETROLUX PXLH SERIES, OR ENGINEER APPROVED EQUAL.
LL1	49W (MAX)	POLE-MOUNTED, 120-277VAC, FULL-CUTOFF LED LIGHT FIXTURE, COLOR TEMPERATURE OF 3000K, IESNA ROADWAY TYPE 2 DISTRIBUTION, BRONZE DIE CAST ALUMINUM HOUSING, 7000 LUMEN MINIMUM, INTEGRAL PHOTOCELL, AND WET LOCATION LISTED. FURNISH AND INSTALL ON ROUND, BRONZE, BASE-MOUNTED, STRAIGHT, 10 FT, ANNODIZED ALUMINUM POLE. POLE FOUNDATION SHALL PROJECT 18 INCHES ABOVE FINISHED GRADE.	HOLOPHANE AUTOBAHN ATB0 SERIES, OR ENGINEER APPROVED EQUAL. AS SELECTED BY FIXTURE MANUFACTURER.
LL1A	70W (MAX)	SAME AS LL1 EXCEPT 10000 LUMEN MINIMUM AND IESNA ROADWAY TYPE 4 DISTRIBUTION. FURNISH AND INSTALL ON ROUND, BRONZE, BASE-MOUNTED, STRAIGHT, 12 FT, ANNODIZED ALUMINUM POLE. POLE FOUNDATION SHALL PROJECT 18 INCHES ABOVE FINISHED GRADE.	HOLOPHANE AUTOBAHN ATB0 SERIES, OR ENGINEER APPROVED EQUAL. AS SELECTED BY FIXTURE MANUFACTURER.
LW2	47W (MAX)	WALL-MOUNTED, 120-277VAC, LED LIGHT FIXTURE, COLOR TEMPERATURE OF 3000K, FORWARD THROW MEDIUM DISTRIBUTION, BRONZE A30-CAST ALUMINUM HOUSING, 5600LUMEN MINIMUM, FULL CUTOFF FIXTURE, INTEGRAL PHOTOCELL, AND WET LOCATION LISTED.	HOLOPHANE HLWPC2 SERIES, OR ENGINEER APPROVED EQUAL.
LW2A	47W (MAX)	SAME AS LW2 EXCEPT WITH INTERNAL EMERGENCY BATTERY.	HOLOPHANE HLWPC2 SERIES, OR ENGINEER APPROVED EQUAL.
LW3	80W (MAX)	WALL MOUNTED, 120-277VAC, LED LIGHT FIXTURE, COLOR TEMPERATURE OF 4000K, DIFUSED GLASS LENS, 7X6 DISTRIBUTION, 11600 LUMEN MINIMUM, WHITE DIE CAST ALUMINUM HOUSING, IP67/NEMA 4X, AND CLASS I DIV. 2, CLASS II DIV. 2 LISTED.	CROUSE-HINDS CHAMP FMVA SERIES, OR ENGINEER APPROVED EQUAL.
LW3A	80W (MAX)	SAME AS TYPE LW3 EXCEPT WITH EMERGENCY BATTERY BACKUP.	CROUSE-HINDS CHAMP FMVA SERIES, OR ENGINEER APPROVED EQUAL.
LW4	115W (MAX)	WALL-MOUNTED, 120-277VAC, LED LIGHT FIXTURE, COLOR TEMPERATURE OF 4000K, FORWARD THROW MEDIUM DISTRIBUTION, GREY A30-CAST ALUMINUM HOUSING, 11700 LUMEN MINIMUM, FULL CUTOFF FIXTURE, AND WET LOCATION LISTED.	HOLOPHANE HLWPC2 SERIES, OR ENGINEER APPROVED EQUAL.
LW4A	115W (MAX)	SAME AS TYPE LW4 EXCEPT WITH EMERGENCY BATTERY BACKUP.	HOLOPHANE HLWPC2 SERIES, OR ENGINEER APPROVED EQUAL.
EW3	2-5.3W (HEADS) 11W (BATTERY)	WALL-MOUNTED LED EMERGENCY FIXTURE, LED HEADS, 120-277 VAC, WITH SEALED LITHIUM IRON PHOSPHATE BATTERY. IMPACT RESISTANT, WHITE MOLDED POLYCARBONATE HOUSING. SURGE AND BROWN-OUT PROTECTION, LOW VOLTAGE BATTERY CUTOFF, AND SELF-DIAGNOSTICS. BATTERY SHALL BE SIZED TO SUPPORT THE FIXTURE AND ALL REMOTE HEADS AS SHOWN ON DRAWINGS.LED HEADS. BATTERY SHALL BE SUITABLE FOR 90 MINUTES. PROVIDE SELF-DIAGNOSTICS OPTION IF AVAILABLE.	HOLOPHANE CORTEZ CZQ6L SERIES, LITHONIA ELM SERIES, OR ENGINEER APPROVED EQUAL.
XW1	1.5W (SIGN) 2-1.5W (HEADS)	WALL-MOUNTED, COMBINATION RED LED EXIT SIGN AND TWO-LAMP LED EMERGENCY FIXTURE, 120-277VAC, WHITE POLYCARBONATE HOUSING, SINGLE/DOUBLE FACE AS INDICATED ON THE DRAWINGS, BROWNOUT AND SURGE PROTECTED, NICKEL CADMIUM BATTERY WITH SELF-DIAGNOSTICS. DAMP LOCATION LISTED. BATTERY SHALL BE SIZED TO SUPPORT THE FIXTURE AND ALL REMOTE HEADS AS SHOWN ON DRAWINGS.	HOLOPHANE MAGELLAN QM LED SERIES, LITHONIA LHQM SERIES, OR ENGINEER APPROVED EQUAL.
XW5	3W	WALL-MOUNTED , LED EXIT SIGN, 120/277VAC, GRAY POWDER COATED ALUMINUM HOUSUBG, ACRYLIC EDGE-LIT PANEL WITH RED LETTERING, SINGLE/DOUBLE FACED AS INDICATED ON DRAWINGS, NICKEL CADIUM BATTERY, AND CLASS I DIV. 1/2, CLASS II DIV. 1/2 LISTED.	HOLOPHANE HDXE SERIES, SIGNIFY CHLORIDE SERIES, OR DIALIGHT CXC SERIES.

ABBREVIATIONS

AE	ANALYSIS ELEMENT
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AIT	ANALYSIS INDICATING TRANSMITTER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AF	AMPERE FRAME
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
BC	BYPASS CONTACTOR
BKR	BREAKER
(L/V)CP	(LOCAL/VENDOR) CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
DB	DUCTBANK
DSW	DISCONNECT SWITCH
EO	ELECTRICALLY OPERATED
ERMS	ENERGY-REDUCING MAINTENANCE SWITCH
ETM	ELAPSED TIME METER
ETU	ELECTRONIC TRIP UNIT
EX	EXISTING
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FOC	FIBER OPTIC CABLE
FS	FLOW SWITCH
FSL	FLOW SWITCH LOW
FUT	FUTURE
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFCT	GROUND FAULT CURRENT TRANSFORMER
GNG	GO-NO GO
GND	GROUND
HOA	HAND-OFF-AUTO
(*)HH	HANDHOLE*
HPU	HYDRAULIC POWER UNIT
IC	INPUT CONTACTOR
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
ISO	INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
(*)JB	JUNCTION BOX*
LCS	LOCAL CONTROL STATION
LP	LIGHTING PANEL
LS	LEVEL SWITCH
LSL	LEVEL SWITCH LOW
LSLL	LEVEL SWITCH LOW-LOW
LSH	LEVEL SWITCH HIGH
LSHH	LEVEL SWITCH HIGH-HIGH
LT	LEVEL TRANSMITTER
LTG	LIGHTING
MFR	MULTI-FUNCTION RELAY
(*)MH	MANHOLE*
MOD	MOTOR OPERATED DAMPER
MOG	MOTOR OPERATED GATE
MOL	MOTOR OPERATED LOUVER
MOV	MOTOR OPERATED VALVE
MPR	MOTOR PROTECTION RELAY
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
MWTS	MOTOR WINDING TEMPERATURE SWITCH
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSN
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	OUTPUT CONTACTOR
OL	OVERLOAD

ABBREVIATIONS, CONT.

(*)PB	PULLBOX*
PC	PHOTOCELL
PCC	POINT OF COMMON COUPLING
PE	PRESSURE ELEMENT
PIT	PRESSURE INDICATING TRANSMITTER
PLC	PROGRAMMABLE LOGIC CONTROLLER
PP	POWER PANEL
PST	PHASE SHIFTING TRANSFORMER
PT	POTENTIAL TRANSFORMER
PTT	PUSH TO TEST
RCS	REMOTE CONTROL STATION
RECP	RECEPTACLE
RIO	REMOTE I/O
RM	ROOM
RTD	RESISTANCE THERMAL DEVICE
RTU	REMOTE TELEMETRY UNIT
RVAT	REDUCED VOLTAGE AUTO TRANSFORMER
RVSS	REDUCED VOLTAGE SOLID STATE STARTER
SA	SUPPLY AIR
S.E.	SERVICE ENTRANCE
SP. C.	SPARE CONDUIT
SPD	SURGE PROTECTIVE DEVICE
SSOL	SOLID STATE OVERLOAD
SST	STAINLESS STEEL
TB	TEST BLOCK
TC	TIMED CLOSE
TO	TIMED OPEN
TSH	TWISTED SHIELDED
TX	TRANSFORMER
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY
VFD	VARIABLE FREQUENCY DRIVE
WPCR	WEATHER PROOF CORROSION RESISTANT
WT	WALK THROUGH
XFMR	TRANSFORMER

*DESIGNATED ABBREVIATIONS CAN HAVE THE FOLLOWING PREFIXES:

E	ELECTRIC
P	POWER
C	CONTROL
I	INSTRUMENTATION
F	FIBER

GENERAL NOTES:

1. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL UNDERGROUND CONCRETE ENCASED ELECTRICAL CONDUITS SHALL BE PER STANDARD DETAIL E-33-0101.
2. BOND ALL NEW CONCRETE ENCASED GROUND CONDUCTORS TO EXISTING GROUND CONDUCTORS IN ALL MANHOLES, PULL BOXES, CABLE TRAYS, AND SIMILAR LOCATIONS WHERE APPLICABLE.
3. UNLESS OTHERWISE SPECIFIED OR NOTED, ALL WALL MOUNTED ELECTRICAL PANELS, ENCLOSURES, AND SIMILAR EQUIPMENT SHALL BE MOUNTED 6'-6" (MAX) FROM THE TOP OF THE PANEL TO FINISHED FLOOR OR GRADE.
4. UNLESS OTHERWISE NOTED, ALL LIGHTING SWITCHES, CONTROL SWITCHES, AND SIMILAR EQUIPMENT SHALL BE MOUNTED WITH THEIR CENTERLINE APPROXIMATELY 4'-0" ABOVE FINISHED FLOOR, SLAB, OR GRADE.
5. A SEPARATE EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH CIRCUIT (SEPARATE CONDUCTOR IN THE CONDUIT). THE CONDUCTOR SHALL BE TERMINATED AT THE PROPER DEVICE, TERMINAL, OR LUG AT THE POWER SOURCE (MCC GROUND BUS, PANELBOARD GROUND BUS, ETC.). GROUND CONDUCTOR SIZE SHALL BE PER THE LATEST EDITION OF THE NEC.
6. ELECTRICAL SYSTEMS INSTALLED IN HAZARDOUS LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 5, ART. 500 OF THE LATEST EDITION OF THE NEC. CONTRACTOR SHALL SEAL ALL CONDUITS LEAVING HAZARDOUS AREAS. WALL AND FLOOR OPENINGS SHALL BE SEALED WITH FIREPROOF COMPOUND.
7. ALL EQUIPMENT LOCATED IN HAZARDOUS AREAS SHALL BE SUITABLE FOR THE CLASS, DIVISION, AND GROUP RATING OF THE LOCATION.
8. UNLESS SPECIFICALLY NOTED OTHERWISE, EXISTING PAVEMENT SHALL BE SAW CUT AND REMOVED TO ALLOW FOR THE INSTALLATION OF NEW ELECTRICAL DUCTBANKS. AFTER INSTALLATION, REPLACE PAVEMENT WITH NEW TO MATCH ORIGINAL CONDITIONS.
9. LIGHTNING PROTECTION SYSTEMS SHALL BE PROVIDED FOR THE STRUCTURES INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH SECTION 26 41 00.
10. FIRE ALARM SYSTEMS SHALL BE PROVIDED FOR THE STRUCTURES INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH SECTION 28 46 20.
11. REFERENCE SECTION 01 14 00 FOR CONSTRUCTION SEQUENCING REQUIREMENTS.
12. CONDUIT HOMERUNS ARE NOT SHOWN ON THE DRAWINGS. CONTRACTOR SHALL REFER TO CONDUIT AND WIRE SCHEDULES, RISER DIAGRAMS, SINGLE LINE DIAGRAMS, AND OTHER DRAWINGS FOR CONDUIT AND WIRE REQUIREMENTS.
13. IN GENERAL, NOT ALL OF THE REQUIRED JUNCTION AND PULL BOXES ARE SHOWN ON THE PLANS. CONTRACTOR SHALL PROVIDE AND FIELD LOCATE SUCH BOXES AS REQUIRED BY CODE, SITE CONDITIONS, AND SPECIFICATIONS, FOR PROPER PULLS AND BENDS, AT NO ADDITIONAL COST TO THE OWNER.
14. ANCHORAGE AND BRACING OF ELECTRICAL NONSTRUCTURAL COMPONENTS INCLUDES GRAVITY, WIND, AND SEISMIC REQUIREMENTS, UNLESS SEISMIC REQUIREMENTS ARE EXEMPTED. ALL ELECTRICAL NON-STRUCTURAL COMPONENTS ARE SUBJECT TO SEISMIC DESIGN CATEGORY C. COMPONENTS WITH AN IMPORTANCE FACTOR OF Ip = 1.0 THAT ARE POSITIVELY ATTACHED TO THE STRUCTURE ARE EXEMPT FROM SEISMIC ANCHORAGE AND BRACING. COMPONENTS WITH AN IMPORTANCE FACTOR OF Ip = 1.5 (ESSENTIAL COMPONENTS) ARE NOT EXEMPT FROM SEISMIC ANCHORAGE AND BRACING (UNLESS EXEMPTED BASED ON COMPONENT WEIGHT) AND SHALL BE FURNISHED WITH A MANUFACTURER'S CERTIFICATE OF SEISMIC QUALIFICATION. SEE GENERAL STRUCTURAL NOTES AND SECTION 01 73 23 - ANCHORAGE AND BRACING OF NONSTRUCTURAL COMPONENTS FOR REQUIREMENTS, INCLUDING DEFINITION OF ESSENTIAL COMPONENTS AND EXEMPTIONS.

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER
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CONFORMED DRAWING

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1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

GENERAL
ELECTRICAL
LIGHTING FIXTURE SCHEDULE, ABBREVIATIONS, AND GENERAL NOTES

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 00-E-002

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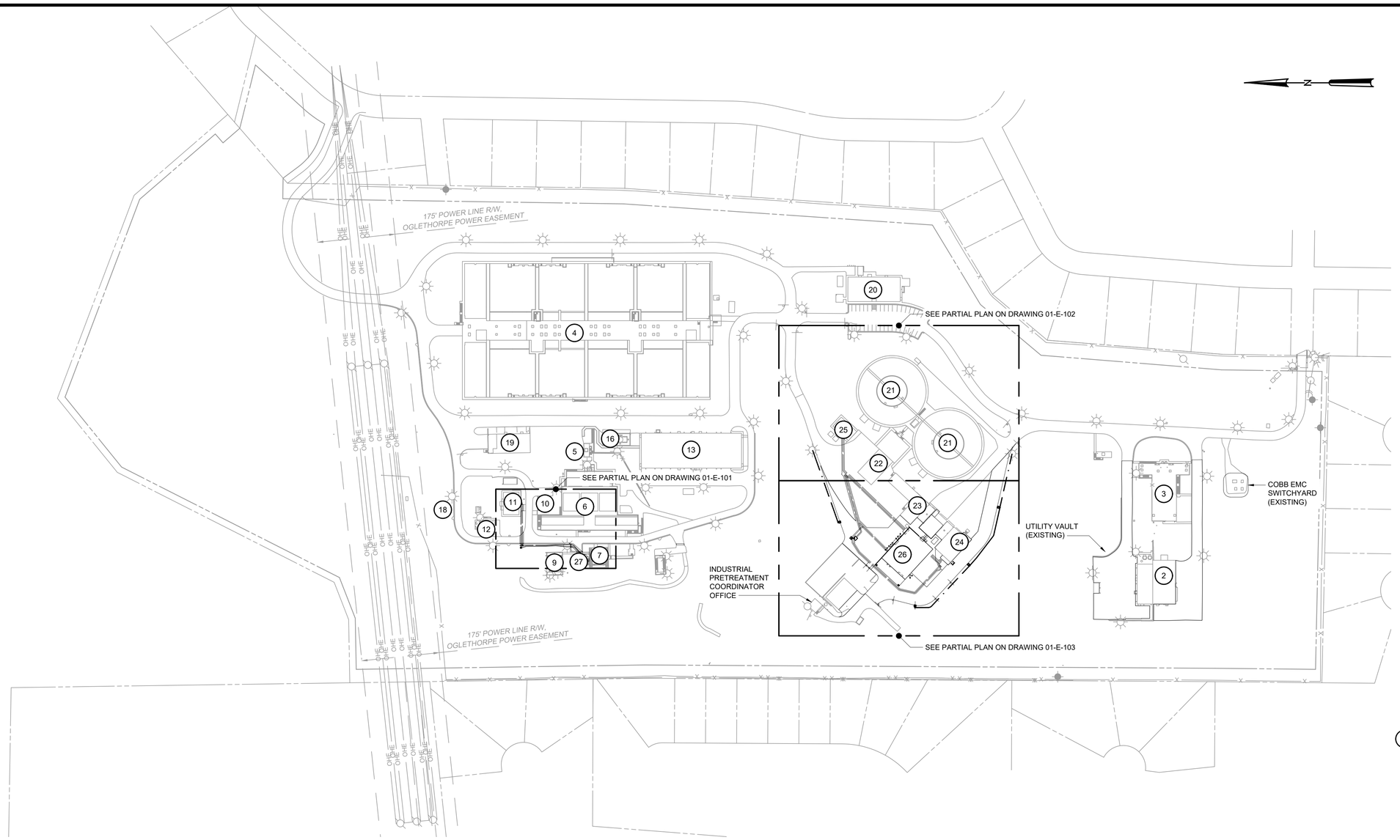

OVERALL PLAN
NTS

NOTES:

1. UNDERGROUND UTILITIES AND STRUCTURES NOT SHOWN FOR CLARITY.

FACILITY LEGEND

2	HEADWORKS
3	INFLUENT EQUALIZATION BASIN
4	BIOLOGICAL TREATMENT
5	FLOW CONTROL VAULT
6	TERTIARY TREATMENT
7	PARSHALL FLUME - UV
9	CASCADE AERATION
10	CHEMICAL SLUDGE PUMP STATION
11	COMPRESSOR BUILDING
12	PLANT DRAIN PUMP STATION
13	CHEMICAL - ELECTRICAL - BLOWER BUILDING
16	LIQUID LIME
18	MISCELLANEOUS VAULTS
19	MAINTENANCE BUILDING
20	CONTROL BUILDING
21	AEROBIC DIGESTERS
22	AEROBIC DIGESTER BLOWER FACILITY
23	DEWATERING BUILDING No. 1
24	DEWATERING BUILDING No. 2
25	SOLIDS ELECTRICAL BUILDING
26	THERMAL DRYER FACILITY AND CAKE HANDLING PAD
27	FINAL EFFLUENT WATER PUMP STATION

REV	ISSUED FOR	DATE	BY
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PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER

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1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

SITE
ELECTRICAL
OVERALL PLAN

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-E-001

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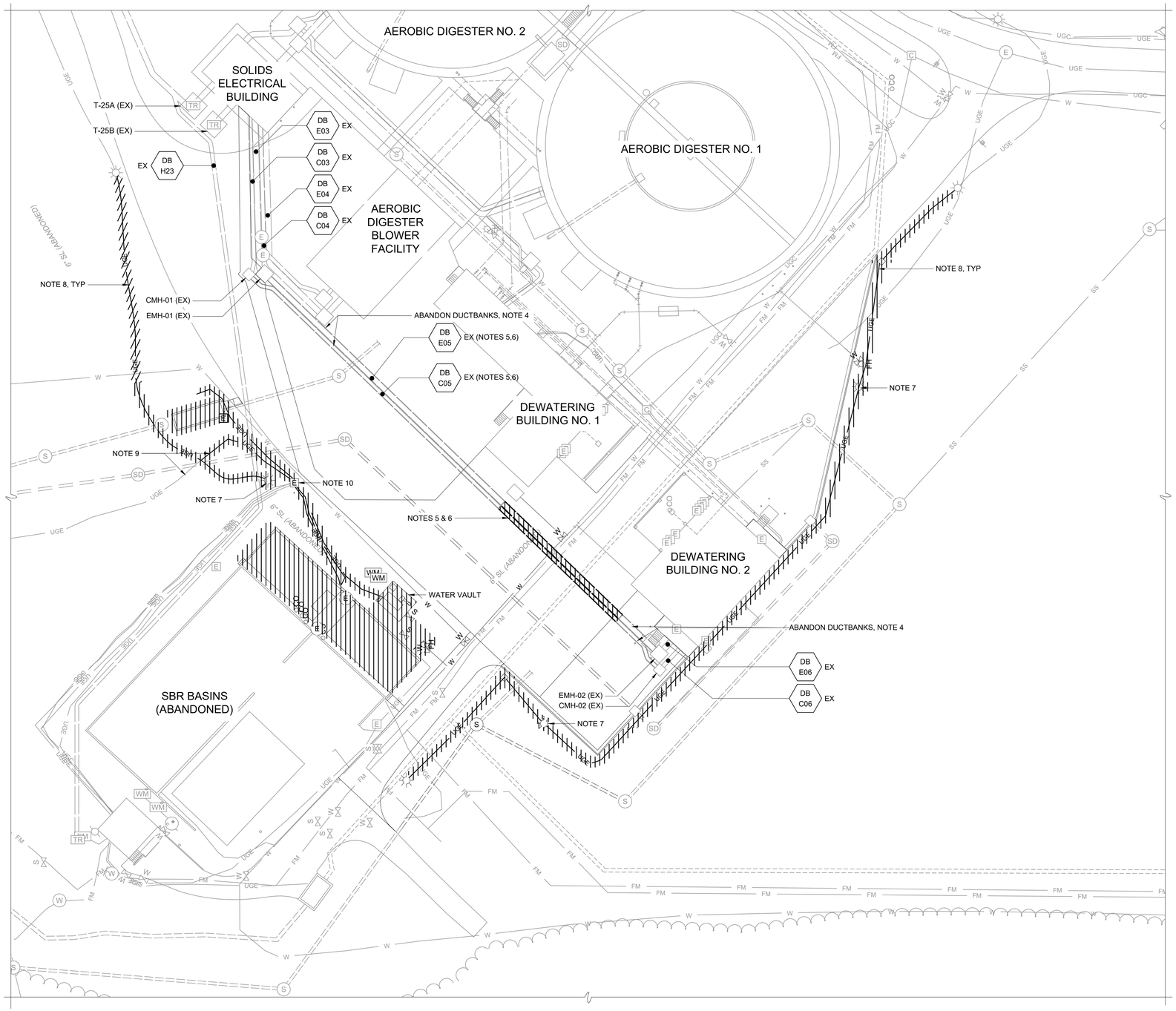
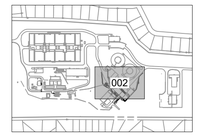


DEMOLITION PARTIAL PLAN
1" = 30'-0"

NOTES:

1. THE LOCATION OF EXISTING UTILITIES IS BASED ON THE MOST RELIABLE SOURCE OF INFORMATION AVAILABLE TO THE ENGINEER AND HAS NOT BEEN COMPLETELY FIELD VERIFIED. PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL FIELD VERIFY THE UNDERGROUND UTILITIES USING NON-DESTRUCTIVE METHOD.
2. HATCHING REPRESENTS DUCTBANKS AND STRUCTURES TO BE DEMOLISHED.
3. REMOVE ALL ELECTRICAL EQUIPMENT, EXPOSED CONDUITS AND ASSOCIATED POWER AND CONTROL WIRING TO THE SOURCE OF THE STRUCTURES DESIGNATED FOR DEMOLITION OR ABANDONMENT ON CIVIL AND MECHANICAL DRAWINGS. DEMOLISH ASSOCIATED DUCTBANKS WITHIN THE AREA OF DEMOLITION. TAG ABANDONED BREAKERS AT THE POWER SOURCE AS "SPARE".
4. SEAL UNUSED OPENINGS OF THE DEMOLISHED DUCTBANKS AT BOTH ENDS TO PREVENT WATER INTRUSION INTO THE MANHOLES, AS REQUIRED.
5. PRIOR TO THE CONSTRUCTION OF THE THERMAL DRYER FACILITY, EXISTING POWER AND FIBER OPTIC COMMUNICATION DUCTBANKS TO DEWATERING BUILDING NO.2, DB-E05 AND DB-C05, SHALL BE RELOCATED. REFERENCE DRAWINGS 01-E-102 AND 01-E-103 FOR THE PROPOSED ROUTING.
   a. REMOVE A PORTION OF THE DUCTBANKS WITHIN 5-FT (MINIMUM) OF THE PROPOSED THERMAL DRYER FACILITY.
   b. ABANDON IN PLACE REMAINING PORTIONS OF THE DUCTBANKS. SEAL CONDUITS AT BOTH ENDS OF THE ABANDONED DUCTBANKS TO PREVENT WATER INTRUSION INTO THE MANHOLES.
6. DEENERGIZE AND REROUTE POWER FEEDERS TO DEWATERING BUILDING NO.2 ONE AT A TIME TO MINIMIZE DISRUPTION OF PLANT OPERATIONS. REFERENCE SECTION 01 14 00 FOR ADDITIONAL CONSTRUCTION CONSTRAINTS.
7. REMOVE ROADWAY LIGHTING FIXTURE AND POLE. PROTECT AND STORE FOR REINSTALLATION AS SHOWN ON DRAWINGS 01-E-102 AND 01-E-103 .
8. TEMPORARILY REMOVE A PORTION OF EXISTING ROADWAY LIGHTING CIRCUIT AS SHOWN.
9. REMOVE CONDUCTORS FROM ABANDONED DUCTBANK TO DECOMMISSIONED STEP AERATORS. REMOVE PORTION OF DUCTBANK AS INDICATED. ABANDON THE REMAINING PORTION IN PLACE.
10. ABANDON IN PLACE EXISTING MANHOLE. REMOVE ALL ABANDONED POWER, CONTROL, AND INSTRUMENTATION WIRING TO THE SOURCES. PER INFORMATION FROM THE OWNER THE FOLLOWING CIRCUITS ARE ROUTED THROUGH THIS MANHOLE:
    a. DECOMMISSIONED FIBER OPTIC CABLE FROM DEWATERING BUILDING NO.2 TO INDUSTRIAL PRETREATMENT COORDINATOR OFFICE
    b. CIRCUITS OF DECOMMISSIONED EQUIPMENT AT ABANDONED SBR BASINS
    c. CIRCUIT TO DECOMMISSIONED STEP AERATORS
    d. CIRCUITS TO EQUIPMENT IN THE EXISTING WATER VAULT BEING DECOMMISSIONED IN THIS PROJECT

REFERENCE ALSO THE RECORD DRAWINGS FOR "FITZGERALD CREEK WPCP PHASE I EXPANSION TO 2.0 MGD" & "FITZGERALD CREEK WPCP SOLIDS HANDLING" PROJECTS FOR ADDITIONAL INFORMATION.



KEY PLAN
NTS

1"=30'-0"
30 15 0 30'

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
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PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	V. KANCHEVA
DRAWN BY:	D. ELAM
CHECKED BY:	N. MEYER

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FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

SITE
ELECTRICAL
DEMOLITION PARTIAL PLAN

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
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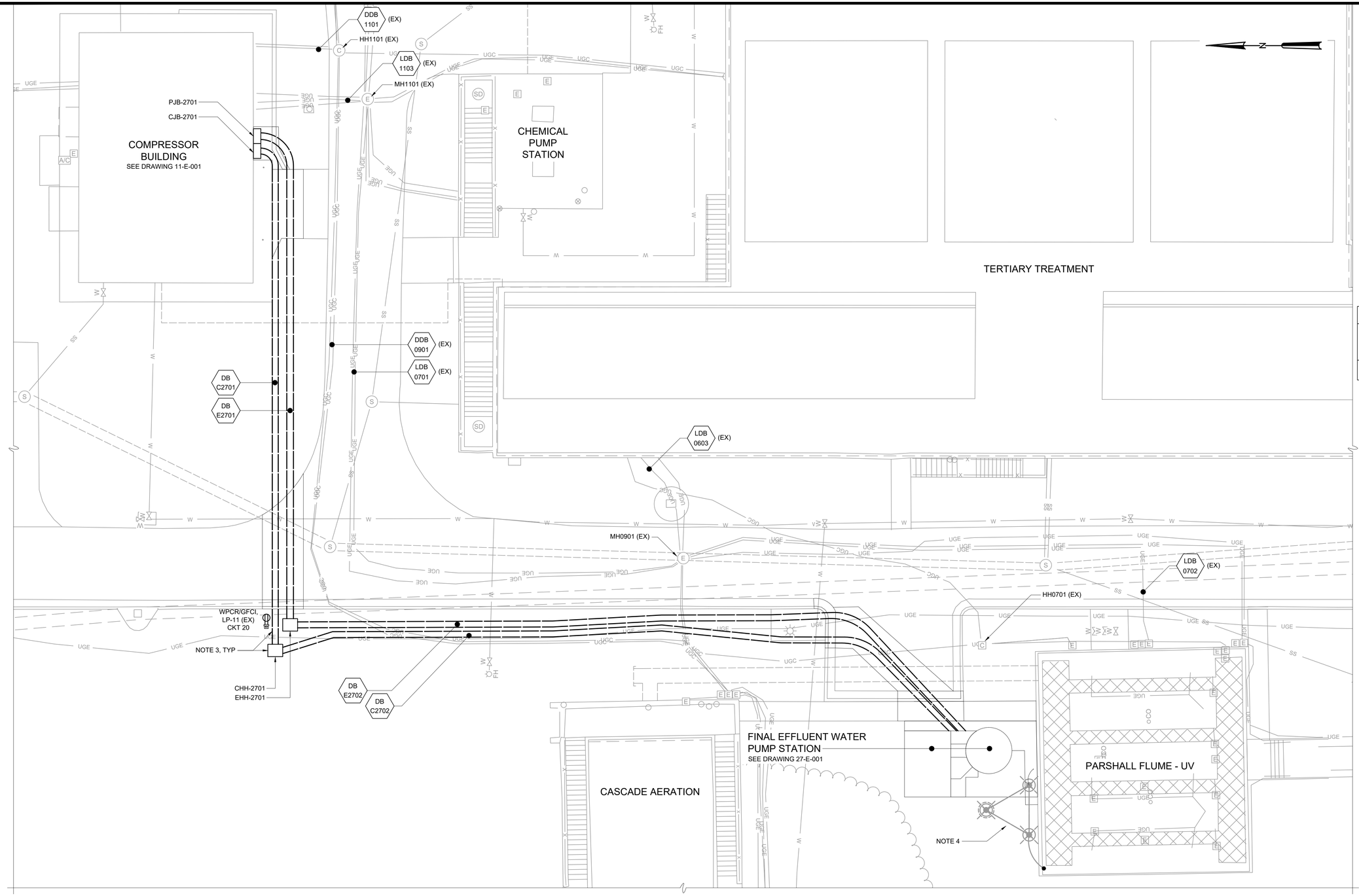
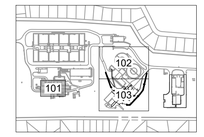


PARTIAL PLAN
1" = 10'-0"

NOTES:

1. LOCATION OF EXISTING UTILITIES IS BASED ON THE MOST RELIABLE SOURCE OF INFORMATION AVAILABLE TO THE ENGINEER AND HAS NOT BEEN COMPLETELY FIELD VERIFIED.
2. THE AREA OF THE PROPOSED DUCTBANKS IS HIGHLY CONGESTED WITH EXISTING UNDERGROUND UTILITIES. PRIOR TO COMMENCING EXCAVATION WORK FOR THE PROPOSED DUCTBANKS, THE CONTRACTOR SHALL FIELD VERIFY THESE UTILITIES USING NON-DESTRUCTIVE METHOD. THE CONTRACTOR SHALL PROCEED WITH EXTREME CAUTION AND SHALL HAND DIG AS REQUIRED TO PROTECT EXISTING UTILITIES.
3. CONTRACTOR SHALL FIELD ADJUST THE ROUTING OF THE PROPOSED DUCTBANKS AND LOCATION OF THE HANDHOLES AS REQUIRED.
4. FIELD VERIFY THE LOCATION OF THE EXISTING GROUNDING TRIANGLE AND PROTECT IT FROM DAMAGE DURING THE PUMP STATION CONSTRUCTION. COORDINATE WITH THE ENGINEER SHOULD ANY PORTION OF THE TRIANGLE NEEDS TO BE REMOVED TEMPORARILY. RESTORE THE TRIANGLE UPON COMPLETION OF CONSTRUCTION.

HANDHOLE SCHEDULE	
HANDHOLE Nos.	MINIMUM INTERIOR DIMENSIONS
CHH-2701, EHH-2701	30" x 36"



KEY PLAN
NTS

1"=10'-0"

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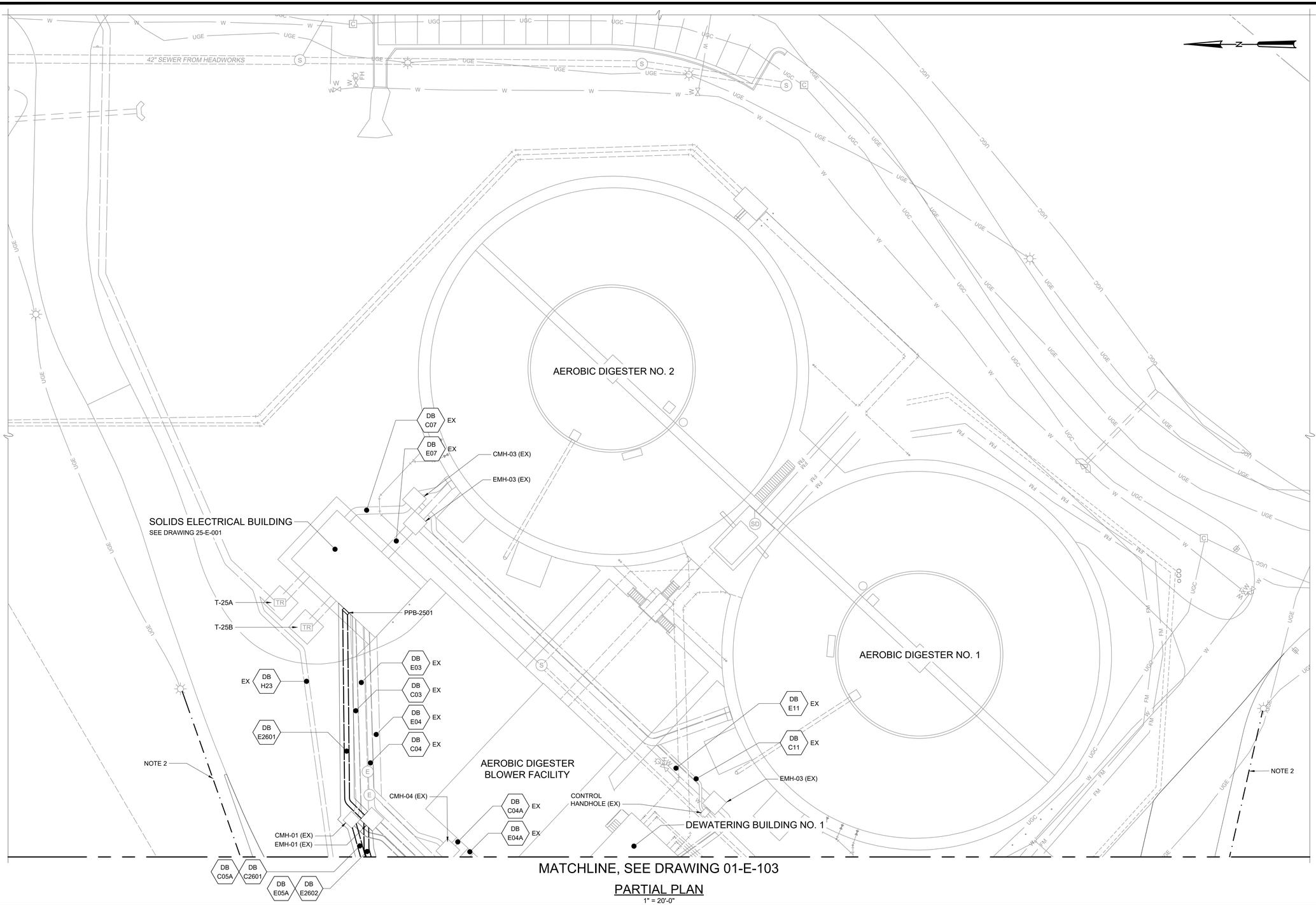
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

SITE
ELECTRICAL
PARTIAL PLAN 1

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA NO.:	2022_007
DRAWING NUMBER:	01-E-101

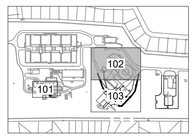
File: C:\USERS\DELAM\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND VTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\01-E-101 Saved by DELAM Save date: 3/4/2026 7:14 AM
PLOT DATE: 3/4/2026 8:40 AM BY: DELAM



PARTIAL PLAN
1" = 20'-0"

NOTES:

1. CIRCUITS OF REROUTED DUCTBANKS DB-E05 AND DB-C05 ARE INCLUDED IN DUCTBANKS DB-E05A & B DB-C05A & B, RESPECTIVELY.
2. PROVIDE [3#6, #6GND] IN 1-1/2"C TO RESTORE THE LIGHTING CIRCUIT TO THE RELOCATED LIGHTING POLE SHOWN ON DRAWING 01-E-103.



KEY PLAN
NTS

1"=20'-0"
20 10 0 20'

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0, 1/2", 1")

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	V. KANCHEVA
DRAWN BY:	D. ELAM
CHECKED BY:	N. MEYER

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY VESSELA KANCHEVA, P.E. No. 35253 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

SITE ELECTRICAL PARTIAL PLAN 2

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA NO.:	2022_007
DRAWING NUMBER:	01-E-102

File: C:\USERS\DELAM\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\01-E-102 Saved by DELAM Save date: 3/4/2026 7:15 AM
PLOT DATE: 3/4/2026 8:40 AM BY: DELAM

MATCHLINE, SEE DRAWING 01-E-102

SEE 01-E-002 FOR CONTINUATION

EX DB H23

EX DB E04

DB E04A EX

CMH-04 (EX)

DB E05A

DB E2602

DB C05A

DB C2601

ABANDONED DUCTBANK

DEWATERING BUILDING NO. 1

ABANDONED DUCTBANKS

NOTE 1, TYP

DB C2602

DB E2602

DB C2601

DB E05A

DB C05A

CMH-26A

EMH-26A

WPCR/GFCI, LP-25B, CKT13 (NOTE 2)

WPCR/GFCI, LP-25B, CKT15 (NOTE 2)

DB E05B

DB C05B

DB C2603

DB C2604

DB E2603

DB E2604

WET CAKE HANDLING PAD

DEWATERING BUILDING NO. 2

THERMAL DRYER FACILITY

SEE DRAWING 26-E-001

SBR BASINS (ABANDONED)

ABANDONED DUCTBANK

EMH-02 (EX)

CMH-02 (EX)

DB E06 EX

DB C06 EX

RELOCATED FIXTURE

SEE 01-E-002 FOR CONTINUATION

NOTE 1, TYP

RELOCATED FIXTURE

T-B (EX)

INDUSTRIAL PRETREATMENT COORDINATOR OFFICE

RELOCATED FIXTURE

PARTIAL PLAN

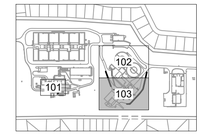
1" = 20'-0"

NOTES:

1. REINSTALL LIGHTING POLE ON A NEW BASE AT THE LOCATION SHOWN. PROVIDE [3#6, #6GND] IN 1-1/2"C FROM THE LAST ENERGIZED LIGHTING FIXTURE ON THE CIRCUIT (SEE DRAWING 01-E-002) TO THE RELOCATED FIXTURES AS SHOWN. PROVIDE AND FIELD-LOCATE HANDHOLES AS NECESSARY TO EXTEND LIGHTING CIRCUIT.
2. INSTALL RECEPTACLES INSIDE MANHOLES EMH-26A AND CMH-26A FOR CONNECTION OF SUMP PUMPS. FIELD-LOCATE THE RECEPTACLES AS CLOSE AS POSSIBLE TO THE TOP OF THE MANHOLE.
3. PROVIDE SUMP PUMPS IN EMH-26A AND CMH-26A, ZOELLER MODEL 53, OR EQUAL, RATED FOR 115V OPERATION. FURNISH WITH MINIMUM 15FT CORD LENGTH WITH 3-PRONG PLUG, CAST IRON CONSTRUCTION, AUTOMATIC OPERATION WITH SELF-CONTAINED OPERATING FLOAT, CAPABLE OF 34 GPM AT 10FT TDH.

MANHOLE SCHEDULE

MANHOLE Nos.	MINIMUM INTERIOR DIMENSIONS
EMH-26A	6' x 6'
CMH-26A	4' x 4'



KEY PLAN
NTS

1"=20'-0"

20 10 0 20'

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	V. KANCHEVA
DRAWN BY:	D. ELAM
CHECKED BY:	N. MEYER

CONFORMED DRAWING

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ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

SITE
ELECTRICAL
PARTIAL PLAN 3

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-E-103

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PLOT DATE: 3/4/2026 7:15 AM

PHOTOMETRIC STATISTICS					
DESCRIPTION	AVG	MAX	MIN	MAX/MIN	AVG/MIN
FINAL EFFLUENT PUMP STATION	8 fc	14 fc	2 fc	7.0:1	4.0:1
FINAL EFFLUENT PUMP STATION ZERO ILLUMINANCE BOUNDARY	0 fc	0 fc	0 fc	N/A	N/A

COMPRESSOR BUILDING

CHEMICAL PUMP STATION

TERTIARY TREATMENT

FINAL EFFLUENT WATER PUMP STATION ZERO ILLUMINANCE BOUNDARY

FINAL EFFLUENT WATER PUMP STATION

CASCADE AERATION

PARSHALL FLUME - UV

PARTIAL PLAN
1" = 10'-0"

KEY PLAN
NTS

1"=10'-0"

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

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PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	V. KANCHEVA
DRAWN BY:	D. ELAM
CHECKED BY:	N. MEYER

CONFORMED DRAWING

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GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

SITE
ELECTRICAL
PARTIAL PHOTOMETRIC PLAN 1

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA NO.:	2022_007
DRAWING NUMBER:	01-E-104

2

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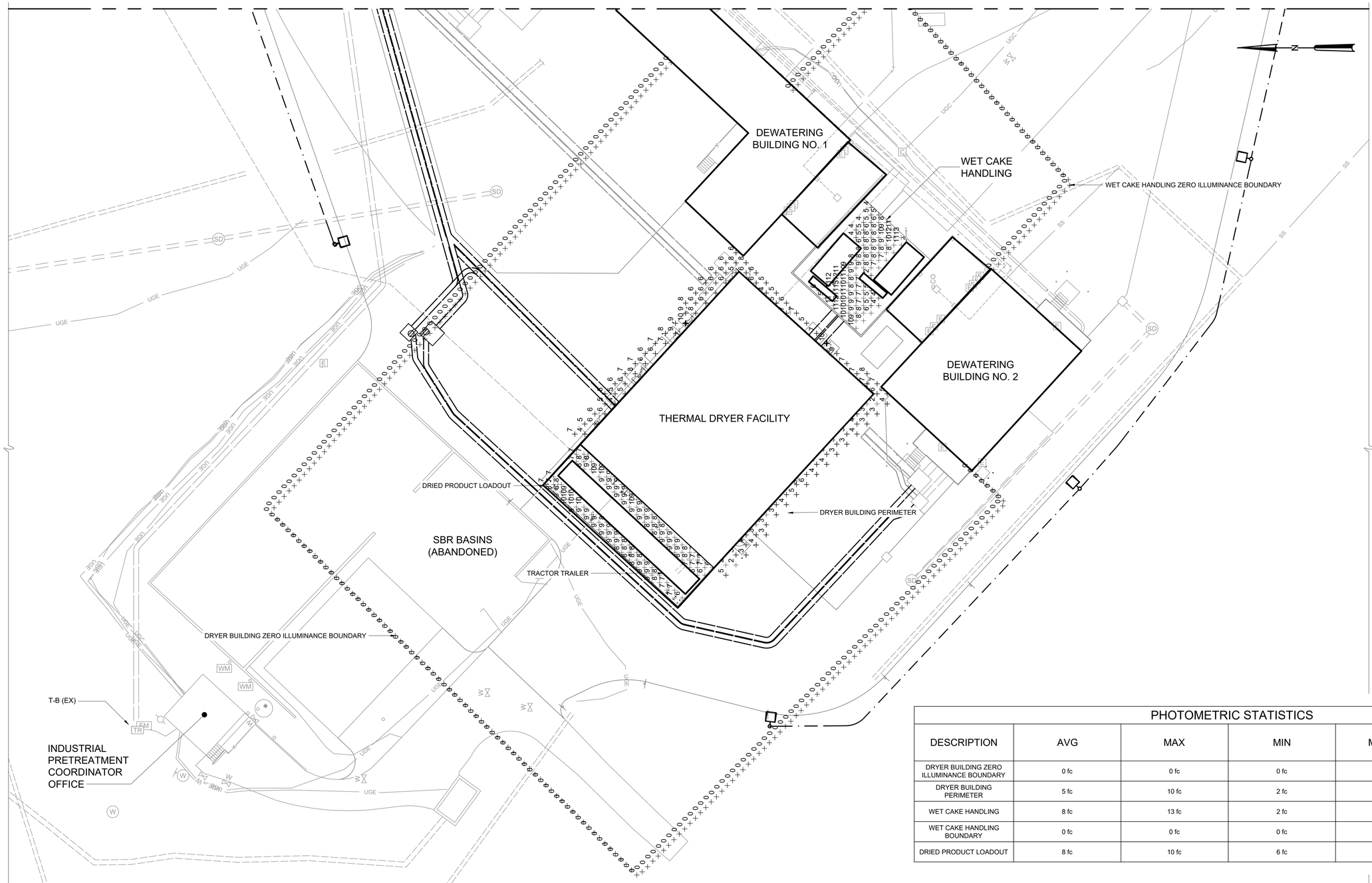
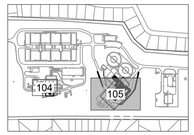


PARTIAL PLAN
1" = 20'-0"



KEY PLAN
NTS

1"=20'-0" 20 10 0 20'

PHOTOMETRIC STATISTICS

DESCRIPTION	AVG	MAX	MIN	MAX/MIN	AVG/MIN
DRYER BUILDING ZERO ILLUMINANCE BOUNDARY	0 fc	0 fc	0 fc	N/A	N/A
DRYER BUILDING PERIMETER	5 fc	10 fc	2 fc	5.0:1	2.5:1
WET CAKE HANDLING	8 fc	13 fc	2 fc	6.5:1	4.0:1
WET CAKE HANDLING BOUNDARY	0 fc	0 fc	0 fc	N/A	N/A
DRIED PRODUCT LOADOUT	8 fc	10 fc	6 fc	1.7:1	1.3:1

REV	ISSUED FOR	DATE	BY
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2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

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PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	V. KANCHEVA
DRAWN BY:	D. ELAM
CHECKED BY:	N. MEYER

CONFORMED DRAWING

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ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

SITE
ELECTRICAL
PARTIAL PHOTOMETRIC PLAN 2

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA NO.:	2022_007
DRAWING NUMBER:	01-E-105

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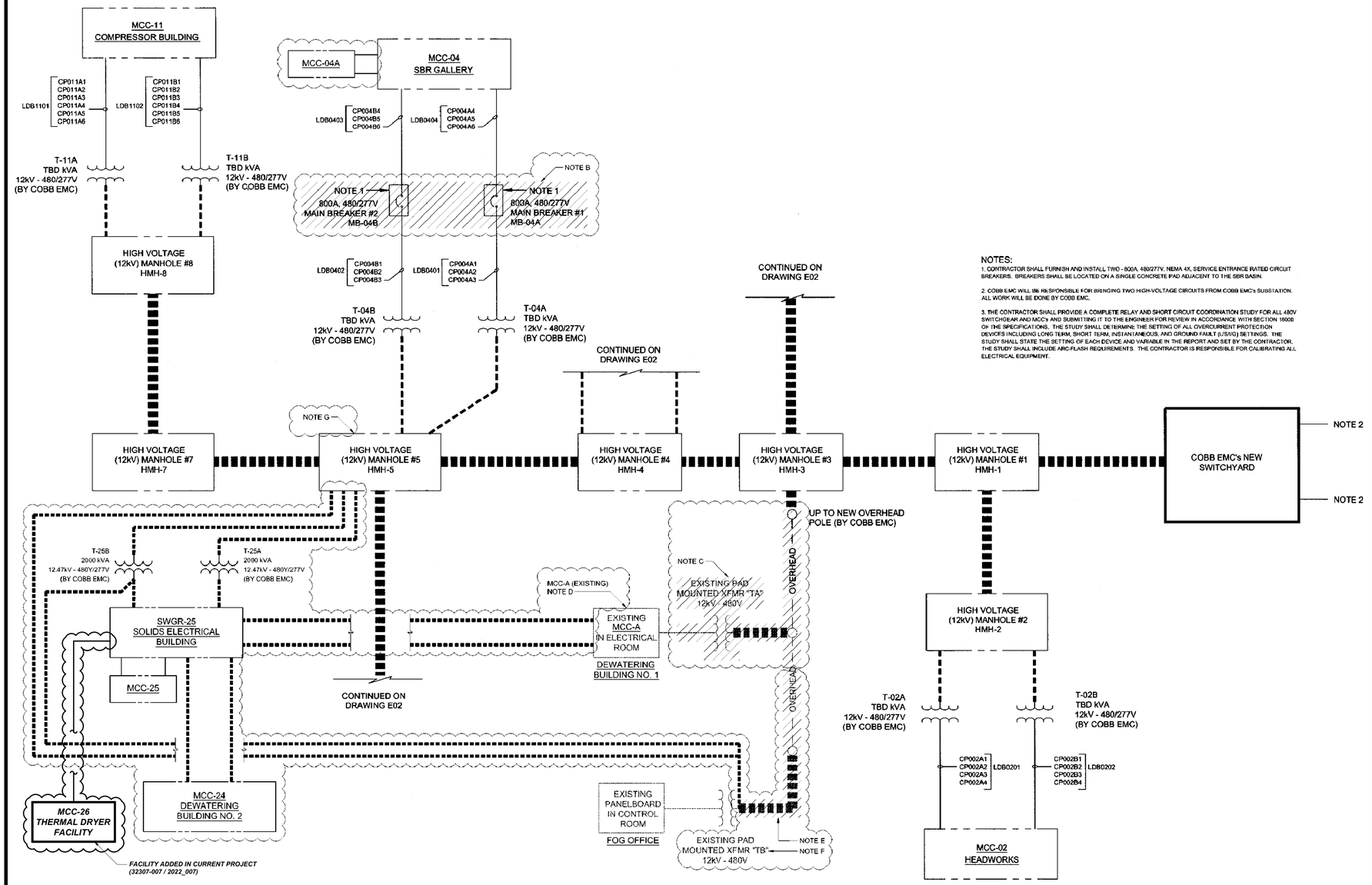
PLOT DATE: 3/4/2026 9:00 AM BY: DELAM



NOTES:

A. THIS IS A RECORD DRAWING FROM THE 2005 FITZGERALD CREEK WPCP EXPANSION TO 6MDG PROJECT PROVIDED FOR INFORMATION ONLY. INSTRUCTIONS TO THIS CONTRACTOR HAVE BEEN SHOWN CLOUDED.

B. DEMOLISH AND REPLACE MAIN CIRCUIT BREAKERS MB-04A AND MB-04B. SEE DRAWINGS 01-E-003, 01-E-103, AND 04-E-001 THROUGH 04-E-004.

C. DEMOLISH OVERHEAD LINES AND TRANSFORMER T-A. SEE DRAWINGS 01-E-007, 01-E-008, AND 23-E-001.

D. EXISTING MCC-A IN DEWATERING BUILDING NO.1 (AREA 23) WILL BE RE-SUPPLIED FROM SWGR-25 IN SOLIDS ELECTRICAL BUILDING (25). SEE DRAWINGS 01-E-107, 23-E-002, AND 25-E-003.

E. DEMOLISH OVERHEAD LINES TO TRANSFORMER T-B. SEE DRAWINGS 01-E-007 THROUGH 01-E-010.

F. EXISTING TRANSFOMER T-B WILL BE RE-SUPPLIED BY THE UTILITY COMPANY. SEE DRAWINGS 01-E-107 AND 01-E-110.

G. EXISTING MANHOLE FOR UTILITY MODIFICATION OF EXISTING PLANT MEDIUM VOLTAGE DISTRIBUTION SYSTEM. SEE DRAWING 01-E-103.

NOTES:

1. POINT OF CONNECTION OF THE NEW THERMAL DRYER FACILITY TO THE PLANT DISTRIBUTION SYSTEM INDICATED ON THE RECORD DRAWING FOR COMPLETENESS.

RECORD DRAWING
PROVIDED FOR
INFORMATION ONLY
SEE 01-E-201 FOR
CONTINUATION

REV	ISSUED FOR	DATE	BY
	RECORD SET	10/2024	PRB
	CONFORMED	04/2021	KLS
1	BID	10/2020	KLS

PROJECT ENGINEER: K. SMEBY
DESIGNED BY: N. LIMA
DRAWN BY: J. JONES
CHECKED BY: N. MEYER
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY NUBEA LIMA, 024756, ON 12/03/2020 AND THE ENTITY'S COA INFORMATION. THIS MEDIUM SHALL NOT BE CONSIDERED A CERTIFIED DOCUMENT.

RECORD DRAWING
THIS DRAWING HAS BEEN MODIFIED TO REFLECT FIELD CHANGES REPORTED BY THE CONTRACTOR OR ANOTHER PARTY, BUT NOT VERIFIED BY THE CERTIFYING ENGINEER

Hazen
HAZEN AND SAWYER
5775 PEACHTREE DUNWOODY ROAD
SUITE D-520
ATLANTA, GEORGIA 30342
(404) 459-8363
GBPE LIC #: PEF003685 EXP: 6/30/2026

ESI
ENGINEERING STRATEGIES, INC.
3455 SHALLOWFORD ROAD, SUITE 525
MARIETTA, GA 30062
(770) 429-0001
GBPE LIC #: PEF002767 EXP: 6/30/2026

CHEROKEE COUNTY WATER AND SEWERAGE AUTHORITY

FITZGERALD CREEK WPCP
EXPANSION TO 11.75 MGD

SITE
ELECTRICAL
EXISTING OVERALL SINGLE LINE DIAGRAM (1 OF 2)

DATE: OCTOBER 2020
HAZEN NO.: 32307-005
CONTRACT NO.: 01
DRAWING NUMBER: 01-E-203

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

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1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

SITE
ELECTRICAL
EXISTING OVERALL SINGLE LINE DIAGRAM (1 OF 2)

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-E-200

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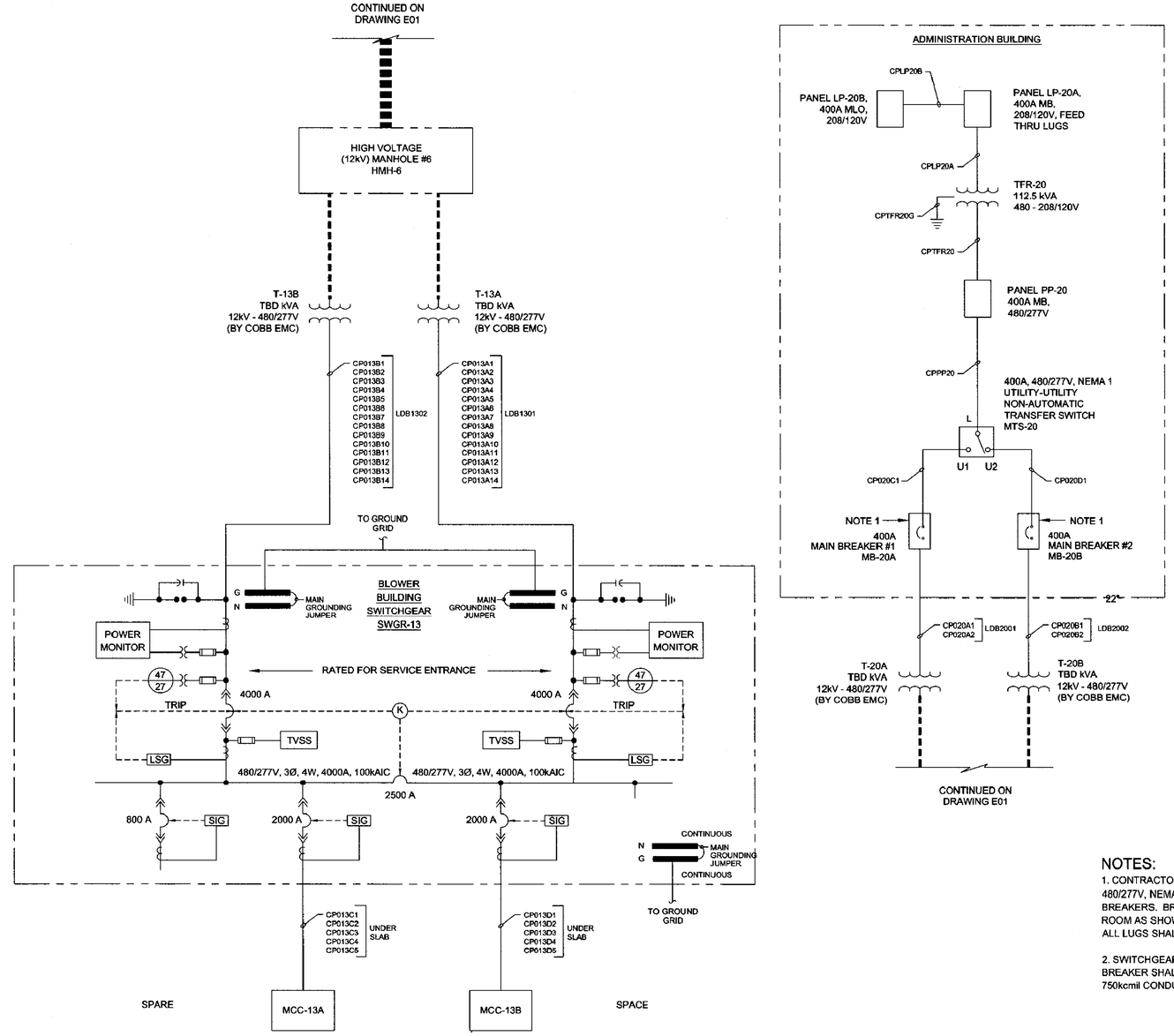
PLOT DATE: 3/4/2026 8:41 AM BY: DELAM



NOTES:

1. CONTRACTOR SHALL FURNISH AND INSTALL TWO - 400A, 480/277V, NEMA 1, SERVICE ENTRANCE RATED CIRCUIT BREAKERS. BREAKERS SHALL BE LOCATED IN ELECTRICAL ROOM AS SHOWN ON THE AREA 20 LIGHTING DRAWINGS. ALL LUGS SHALL BE RATED FOR 600kcmil.
2. SWITCHGEAR 13 SHALL BE METAL CLAD AND EACH MAIN BREAKER SHALL BE ABLE TO ACCOMMODATE 14 RUNS OF 750kcmil CONDUCTORS IN 4" CONDUITS.

NOTES:

A. THIS IS A RECORD DRAWING FROM THE 2005 FITZGERALD CREEK WPCP EXPANSION TO 8MDG PROJECT PROVIDED FOR INFORMATION ONLY.

RECORD DRAWING PROVIDED FOR INFORMATION ONLY SEE 01-E-201 FOR CONTINUATION

REV	ISSUED FOR	DATE	BY
	RECORD SET	10/2024	PRB
	CONFORMED	04/2021	KLS
1	BID	10/2020	KLS

PROJECT ENGINEER: K. SMEBY
DESIGNED BY: N. LIMA
DRAWN BY: J. JONES
CHECKED BY: N. MEYER
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RECORD DRAWING
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CHEROKEE COUNTY WATER AND SEWERAGE AUTHORITY

FITZGERALD CREEK WPCP EXPANSION TO 11.75 MGD

SITE ELECTRICAL EXISTING OVERALL SINGLE LINE DIAGRAM (2 OF 2)

DATE: OCTOBER 2020
HAZEN NO.: 32307-005
CONTRACT NO.: 01
DRAWING NUMBER: 01-E-204

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER
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GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP THERMAL DRYER FACILITY

SITE ELECTRICAL EXISTING OVERALL SINGLE LINE DIAGRAM (2 OF 2)

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-E-201

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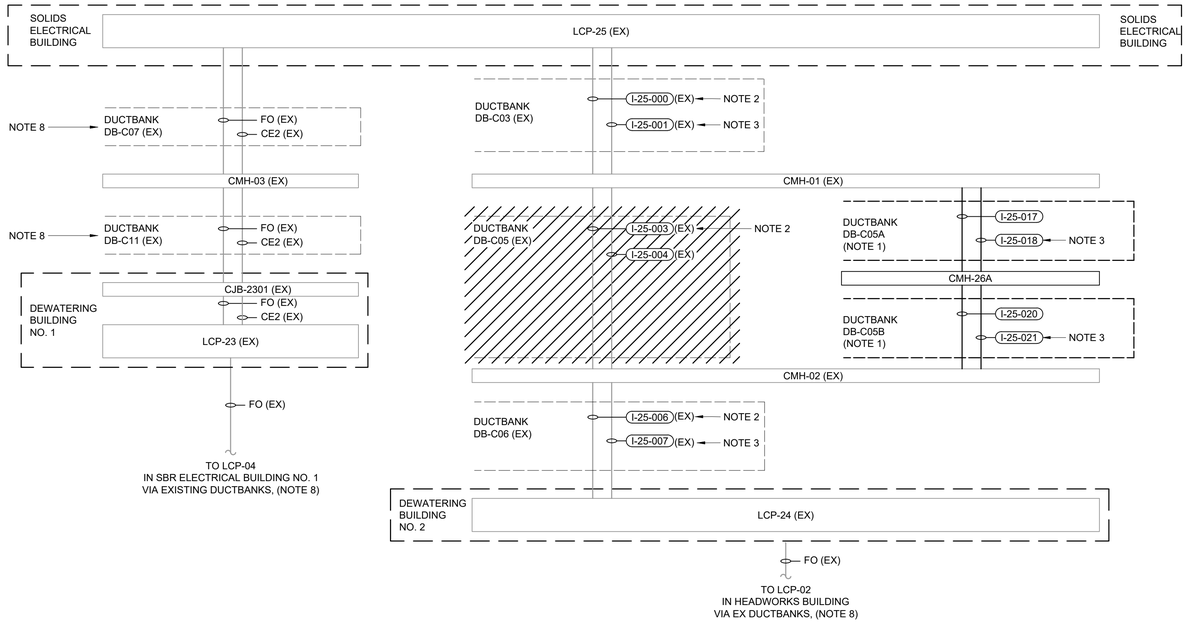
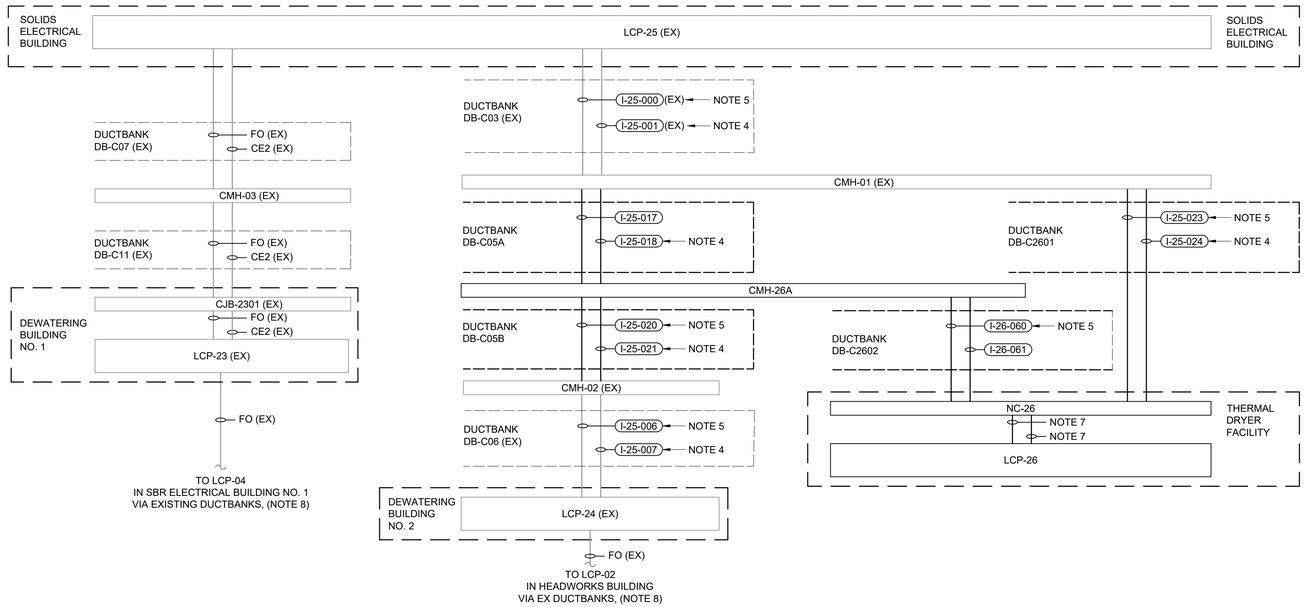


PLANT FIBER OPTIC SYSTEM ARCHITECTURE - PARTIAL DEMOLITION AND INTERIM BLOCK DIAGRAM



PLANT FIBER OPTIC SYSTEM ARCHITECTURE - PARTIAL MODIFIED BLOCK DIAGRAM

NOTES:

1. INSTALL DUCTBANKS DB-05A & DB-05B TO REPLACE EXISTING DB-05 BEING DEMOLISHED PRIOR TO COMMENCEMENT OF THE CONSTRUCTION WORKS FOR THE THERMAL DRYER FACILITY.
2. REMOVE EXISTING FIBER OPTIC CABLE BETWEEN SOLIDS ELECTRICAL BUILDING AND DEWATERING BUILDING NO. 2.
3. INSTALL TEMPORARY FIBER OPTIC CABLE FROM LCP-25 TO LCP-24 VIA DB-C05A & DB-C05B TO MAINTAIN PLANT FIBER OPTIC LOOP DURING THE CONSTRUCTION OF THE THERMAL DRYER FACILITY.
4. UPON COMPLETION OF THE CONSTRUCTION REMOVE THE TEMPORARY CABLE.
5. INSTALL PERMANENT FIBER OPTIC CABLES VIA EXISTING AND NEW DUCTBANKS FROM LCP-25 TO LCP-26, AND FROM LCP-26 TO LCP-24 AS SHOWN ON OVERALL PLANT SYSTEM ARCHITECTURE DRAWING 00-I-002.
6. COMPLETE FIBER OPTIC MODIFICATIONS WORK IN ACCORDANCE WITH SECTION 01 14 00.
7. SEE THERMAL DRYER FACILITY CONTROL BLOCK DIAGRAMS ON 26-E-027 FOR CONDUIT AND CONDUCTOR REQUIREMENTS.
8. REFER TO THE RECORD DRAWINGS FOR "FITZGERALD CREEK WPCP EXPANSION TO 11.75 MGD" PROJECT, AS REQUIRED FOR THE SCHEDULES OF EXISTING DUCTBANKS NOT MODIFIED IN THIS PROJECT.

CIRCUIT LEGEND:

FO (EX) - 2"C (EX) [FIBER OPTIC CABLE, BY DIV. 40]

CE2 (EX) - 2"C (EX) [EMPTY W/ PULLSTRING]

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0, 1/2", 1")

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GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

SITE
ELECTRICAL
PLANT FIBER OPTIC SYSTEM ARCHITECTURE
BLOCK DIAGRAMS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-E-202

File: C:\USERS\DELAM\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\01-E-202 Saved by DELAM Save date: 3/4/2026 7:22 AM
PLOT DATE: 3/4/2026 8:41 AM BY: DELAM

NOTES:

1. HATCHING INDICATES DUCTBANK BEING DEMOLISHED.

DUCTBANK	CONDUIT						NOTES
	No.	CONDUIT No.	SIZE	DESCRIPTION	FROM	TO	
DB-E03 (EX)	1	P-24-000	4" (EX)	3-350KCMIL, #1GND (EX)	SWGR-25 (EXISTING)	EMH-01 (EXISTING)	MCC-24 MAIN 1 (1 OF 2)
	2	P-24-001	4" (EX)	3-350KCMIL, #1GND (EX)	SWGR-25 (EXISTING)	EMH-01 (EXISTING)	MCC-24 MAIN 1 (2 OF 2)
	3	P-24-002	4" (EX)	EMPTY W/ PULLSTRING	SWGR-25 (EXISTING)	EMH-01 (EXISTING)	SPARE
	4	P-24-003	4" (EX)	3-350KCMIL, #1GND (EX)	SWGR-25 (EXISTING)	EMH-01 (EXISTING)	MCC-24 MAIN 2 (1 OF 2)
	5	P-24-004	4" (EX)	3-350KCMIL, #1GND (EX)	SWGR-25 (EXISTING)	EMH-01 (EXISTING)	MCC-24 MAIN 2 (2 OF 2)
	6	P-24-005	4" (EX)	EMPTY W/ PULLSTRING	SWGR-25 (EXISTING)	EMH-01 (EXISTING)	SPARE
DB-E05 (EX)	1	P-24-008	4" (EX)	3-350KCMIL, #1GND (EX)	EMH-01 (EXISTING)	EMH-02 (EXISTING)	MCC-24 MAIN 1 (1 OF 2)
	2	P-24-009	4" (EX)	3-350KCMIL, #1GND (EX)	EMH-01 (EXISTING)	EMH-02 (EXISTING)	MCC-24 MAIN 1 (2 OF 2)
	3	P-24-010	4" (EX)	EMPTY W/ PULLSTRING	EMH-01 (EXISTING)	EMH-02 (EXISTING)	SPARE
	4	P-24-011	4" (EX)	3-350KCMIL, #1GND (EX)	EMH-01 (EXISTING)	EMH-02 (EXISTING)	MCC-24 MAIN 2 (1 OF 2)
	5	P-24-012	4" (EX)	3-350KCMIL, #1GND (EX)	EMH-01 (EXISTING)	EMH-02 (EXISTING)	MCC-24 MAIN 2 (2 OF 2)
	6	P-24-013	4" (EX)	EMPTY W/ PULLSTRING	EMH-01 (EXISTING)	EMH-02 (EXISTING)	SPARE
DB-E06 (EX)	1	P-24-016	4" (EX)	3-350KCMIL, #1GND (EX)	EMH-02 (EXISTING)	MCC-24	MCC-24 MAIN 1 (1 OF 2)
	2	P-24-017	4" (EX)	3-350KCMIL, #1GND (EX)	EMH-02 (EXISTING)	MCC-24	MCC-24 MAIN 1 (2 OF 2)
	3	P-24-018	4" (EX)	EMPTY W/ PULLSTRING	EMH-02 (EXISTING)	MCC-24	SPARE
	4	P-24-019	4" (EX)	3-350KCMIL, #1GND (EX)	EMH-02 (EXISTING)	MCC-24	MCC-24 MAIN 2 (1 OF 2)
	5	P-24-020	4" (EX)	3-350KCMIL, #1GND (EX)	EMH-02 (EXISTING)	MCC-24	MCC-24 MAIN 2 (2 OF 2)
	6	P-24-021	4" (EX)	EMPTY W/ PULLSTRING	EMH-02 (EXISTING)	MCC-24	SPARE

DUCTBANK	CONDUIT						NOTES
	No.	CONDUIT No.	SIZE	DESCRIPTION	FROM	TO	
DB-E03 (EX) (MODIFIED)	1	P-24-000	4" (EX)	3-500KCMIL, #1/0GND	SWGR-25 (EXISTING)	EMH-01 (EXISTING)	MCC-24 MAIN 1 (1 OF 2)
	2	P-24-001	4" (EX)	3-500KCMIL, #1/0GND	SWGR-25 (EXISTING)	EMH-01 (EXISTING)	MCC-24 MAIN 1 (2 OF 2)
	3	P-24-002	4" (EX)	EMPTY W/ PULLSTRING	SWGR-25 (EXISTING)	EMH-01 (EXISTING)	SPARE
	4	P-24-003	4" (EX)	3-500KCMIL, #1/0GND	SWGR-25 (EXISTING)	EMH-01 (EXISTING)	MCC-24 MAIN 2 (1 OF 2)
	5	P-24-004	4" (EX)	3-500KCMIL, #1/0GND	SWGR-25 (EXISTING)	EMH-01 (EXISTING)	MCC-24 MAIN 2 (2 OF 2)
	6	P-24-005	4" (EX)	EMPTY W/ PULLSTRING	SWGR-25 (EXISTING)	EMH-01 (EXISTING)	SPARE
DB-E05A	1	P-24-101	4"	3-500KCMIL, #1/0GND	EMH-01 (EXISTING)	EMH-26A	MCC-24 MAIN 1 (1 OF 2)
	2	P-24-102	4"	3-500KCMIL, #1/0GND	EMH-01 (EXISTING)	EMH-26A	MCC-24 MAIN 1 (2 OF 2)
	3	P-24-103	4"	EMPTY W/ PULLSTRING	EMH-01 (EXISTING)	EMH-26A	SPARE
	4	P-24-109	4"	3-500KCMIL, #1/0GND	EMH-01 (EXISTING)	EMH-26A	MCC-24 MAIN 2 (1 OF 2)
	5	P-24-110	4"	3-500KCMIL, #1/0GND	EMH-01 (EXISTING)	EMH-26A	MCC-24 MAIN 2 (2 OF 2)
	6	P-24-111	4"	EMPTY W/ PULLSTRING	EMH-01 (EXISTING)	EMH-26A	SPARE
	7	P-26-017	1-1/2"	4#8, #8GND	EMH-01 (EXISTING)	EMH-26A	RECP - EMH/CMH-26A
	8	P-26-025	1-1/2"	EMPTY W/ PULLSTRING	EMH-01 (EXISTING)	EMH-26A	SPARE
DB-E05B	1	P-24-104	4"	3-500KCMIL, #1/0GND	EMH-26A	EMH-02 (EXISTING)	MCC-24 MAIN 1 (1 OF 2)
	2	P-24-105	4"	3-500KCMIL, #1/0GND	EMH-26A	EMH-02 (EXISTING)	MCC-24 MAIN 1 (2 OF 2)
	3	P-24-106	4"	EMPTY W/ PULLSTRING	EMH-26A	EMH-02 (EXISTING)	SPARE
	4	P-24-112	4"	3-500KCMIL, #1/0GND	EMH-26A	EMH-02 (EXISTING)	MCC-24 MAIN 2 (1 OF 2)
	5	P-24-113	4"	3-500KCMIL, #1/0GND	EMH-26A	EMH-02 (EXISTING)	MCC-24 MAIN 2 (2 OF 2)
	6	P-24-114	4"	EMPTY W/ PULLSTRING	EMH-26A	EMH-02 (EXISTING)	SPARE
DB-E06 (EX) (MODIFIED)	1	P-24-016	4" (EX)	3-500KCMIL, #1/0GND	EMH-02 (EXISTING)	MCC-24	MCC-24 MAIN 1 (1 OF 2)
	2	P-24-017	4" (EX)	3-500KCMIL, #1/0GND	EMH-02 (EXISTING)	MCC-24	MCC-24 MAIN 1 (2 OF 2)
	3	P-24-018	4" (EX)	EMPTY W/ PULLSTRING	EMH-02 (EXISTING)	MCC-24	SPARE
	4	P-24-019	4" (EX)	3-500KCMIL, #1/0GND	EMH-02 (EXISTING)	MCC-24	MCC-24 MAIN 2 (1 OF 2)
	5	P-24-020	4" (EX)	3-500KCMIL, #1/0GND	EMH-02 (EXISTING)	MCC-24	MCC-24 MAIN 2 (2 OF 2)
	6	P-24-021	4" (EX)	EMPTY W/ PULLSTRING	EMH-02 (EXISTING)	MCC-24	SPARE
DB-E2601	1	P-26-005	4"	3-350KCMIL, #3/0 GND	PPB-2501	EMH-01 (EXISTING)	MCC-26 MAIN (1 OF 3)
	2	P-26-006	4"	3-350KCMIL, #3/0 GND	PPB-2501	EMH-01 (EXISTING)	MCC-26 MAIN (2 OF 3)
	3	P-26-007	4"	3-350KCMIL, #3/0 GND	PPB-2501	EMH-01 (EXISTING)	MCC-26 MAIN (3 OF 3)
	4	P-26-008	4"	EMPTY W/ PULLSTRING	PPB-2501	EMH-01 (EXISTING)	SPARE
	5	P-26-016	1-1/2"	4#8, #8GND	PPB-2501	EMH-01 (EXISTING)	RECP - EMH/CMH-26A
	6	P-26-024	1-1/2"	EMPTY W/ PULLSTRING	PPB-2501	EMH-01 (EXISTING)	SPARE
DB-E2602	1	P-26-009	4"	3-350KCMIL, #3/0 GND	EMH-01 (EXISTING)	MCC-26	MCC-26 MAIN (1 OF 3)
	2	P-26-010	4"	3-350KCMIL, #3/0 GND	EMH-01 (EXISTING)	MCC-26	MCC-26 MAIN (2 OF 3)
	3	P-26-011	4"	3-350KCMIL, #3/0 GND	EMH-01 (EXISTING)	MCC-26	MCC-26 MAIN (3 OF 3)
	4	P-26-012	4"	EMPTY W/ PULLSTRING	EMH-01 (EXISTING)	MCC-26	SPARE

DUCTBANK	CONDUIT						NOTES
	No.	CONDUIT No.	SIZE	DESCRIPTION	FROM	TO	
DB-E2603	1	P-26-053	1-1/2"	3/C#10, #10GND VFD CABLE	CP-26107	MZ26101A	VIA DSW
	2	P-26-054	1-1/2"	3/C#10, #10GND VFD CABLE	CP-26107	MZ26101B	VIA DSW
	3	P-26-055	1-1/2"	3/C#12, #12GND VFD CABLE	CP-26107	MZ26102A	VIA DSW
	4	P-26-056	1-1/2"	3/C#12, #12GND VFD CABLE	CP-26107	MZ26102B	VIA DSW
	5	P-26-057	1-1/2"	3/C#6, #6GND VFD CABLE	CP-26107	MP26104	VIA DSW
	6	P-26-058	1"	6#10, #10GND	CP-26107	PJB-2601	MOV-26104 & MOV-26103
	7	P-26-062	1"	EMPTY W/ PULLSTRING	CONDUIT STUB UP (ELECTRICAL ROOM)	CONDUIT STUB UP (DEWAT. CAKE HOPPER 1)	
	8	P-26-063	1"	EMPTY W/ PULLSTRING	CONDUIT STUB UP (ELECTRICAL ROOM)	CONDUIT STUB UP (DEWAT. CAKE HOPPER 1)	
	9	P-26-120	1"	2#10, #10GND	PP-26B	LTG - DEWATERED CAKE HANDLING	
DB-E2604	1	P-26-065	1-1/2"	3/C#10, #10GND VFD CABLE	CP-26107	MZ26111A	VIA DSW
	2	P-26-066	1-1/2"	3/C#10, #10GND VFD CABLE	CP-26107	MZ26111B	VIA DSW
	3	P-26-067	1-1/2"	3/C#12, #12GND VFD CABLE	CP-26107	MZ26112A	VIA DSW
	4	P-26-068	1-1/2"	3/C#12, #12GND VFD CABLE	CP-26107	MZ26112B	VIA DSW
	5	P-26-069	1-1/2"	3/C#6, #6GND VFD CABLE	CP-26107	MP26114	VIA DSW
	6	P-26-070	1"	6#10, #10GND	CP-26107	PJB-2602	MOV-26100 & MOV-26113
	7	P-26-074	1"	EMPTY W/ PULLSTRING	CONDUIT STUB UP (ELECTRICAL ROOM)	CONDUIT STUB UP (DEWAT. CAKE HOPPER 2)	
	8	P-26-075	1"	EMPTY W/ PULLSTRING	CONDUIT STUB UP (ELECTRICAL ROOM)	CONDUIT STUB UP (DEWAT. CAKE HOPPER 2)	
DB-E2701	1	P-27-005	2-1/2"	3/C#2/0, 3#4GND, VFD CABLE	PJB-2701	EHH-2701	P27111
	2	P-27-010	2-1/2"	3/C#2/0, 3#4GND, VFD CABLE	PJB-2701	EHH-2701	P27112
	3	P-27-015	2"	8#8, #8GND	PJB-2701	EHH-2701	
	4	P-27-021	2-1/2"	EMPTY W/ PULLSTRING	PJB-2701	EHH-2701	SPARE
	5	P-27-025	1"	2#10, #10GND	PJB-2701	EHH-2701	
DB-E2702	1	P-27-006	2-1/2"	3/C#2/0, 3#4GND, VFD CABLE	EHH-2701	TJB-27111	P27111
	2	P-27-011	2-1/2"	3/C#2/0, 3#4GND, VFD CABLE	EHH-2701	TJB-27112	P27112
	3	P-27-016	2"	8#8, #8GND	EHH-2701	PJB-27110	
	4	P-27-022	2-1/2"	EMPTY W/ PULLSTRING	EHH-2701	CONDUIT STUB UP	SPARE

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY VESSELA KANCHEVA, P.E. No. 35253 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

SITE
ELECTRICAL
DUCTBANK SCHEDULES

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-E-203

File: C:\USERS\DELAM\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\01-E-203 Saved by DELAM Save date: 3/4/2026 7:23 AM
PLOT DATE: 3/4/2026 8:41 AM BY: DELAM

DUCTBANK	CONDUIT						NOTES
	No.	CONDUIT No.	SIZE	DESCRIPTION	FROM	TO	
DB-C03 (EX)	1	I-25-000	2" (EX)	FO CABLE (EX)	LCP-25 (EXISTING)	CMH-01 (EXISTING)	FROM LCP-25 TO LCP-24
	2	I-25-001	2" (EX)	EMPTY W/ PULLSTRING	LCP-25 (EXISTING)	CMH-01 (EXISTING)	SPARE
DB-C05 (EX)	1	I-25-003	2" (EX)	FO CABLE (EX)	CMH-01 (EXISTING)	CMH-02 (EXISTING)	FROM LCP-25 TO LCP-24
	2	I-25-004	2" (EX)	EMPTY W/ PULLSTRING	CMH-01 (EXISTING)	CMH-02 (EXISTING)	SPARE
DB-C06 (EX)	1	I-25-006	2" (EX)	FO CABLE (EX)	CMH-02 (EXISTING)	LCP-24 (EXISTING)	FROM LCP-25 TO LCP-24
	2	I-25-007	2" (EX)	EMPTY W/ PULLSTRING	CMH-02 (EXISTING)	LCP-24 (EXISTING)	SPARE

DUCTBANK	CONDUIT						NOTES
	No.	CONDUIT No.	SIZE	DESCRIPTION	FROM	TO	
DB-C03 (EX) (MODIFIED)	1	I-25-000	2" (EX)	FO CABLE, BY DIV. 40	LCP-25 (EXISTING)	CMH-01 (EXISTING)	FROM LCP-25 TO LCP-26
	2	I-25-001	2" (EX)	TEMPORARY FO CABLE, BY DIV. 40	LCP-25 (EXISTING)	CMH-01 (EXISTING)	FROM LCP-25 TO LCP-24 (NOTE 1)
DB-C05A	1	I-25-017	2"	FO CABLE, BY DIV. 40	CMH-01 (EXISTING)	CMH-26A	FROM LCP-26 TO LCP-24
	2	I-25-018	2"	TEMPORARY FO CABLE, BY DIV. 40	CMH-01 (EXISTING)	CMH-26A	FROM LCP-25 TO LCP-24 (NOTE 1)
DB-C05B	1	I-25-020	2"	FO CABLE, BY DIV. 40	CMH-26A	CMH-02 (EXISTING)	FROM LCP-26 TO LCP-24
	2	I-25-021	2"	TEMPORARY FO CABLE, BY DIV. 40	CMH-26A	CMH-02 (EXISTING)	FROM LCP-25 TO LCP-24 (NOTE 1)
DB-C06 (EX) (MODIFIED)	1	I-25-006	2" (EX)	FO CABLE, BY DIV. 40	CMH-02 (EXISTING)	LCP-24 (EXISTING)	FROM LCP-26 TO LCP-24
	2	I-25-007	2" (EX)	TEMPORARY FO CABLE, BY DIV. 40	CMH-02 (EXISTING)	LCP-24 (EXISTING)	FROM LCP-25 TO LCP-24 (NOTE 1)
DB-C2601	1	I-25-023	2"	FO CABLE, BY DIV. 40	CMH-01 (EXISTING)	LCP-26	FROM LCP-25 TO LCP-26
	2	I-25-024	2"	EMPTY W/ PULLSTRING	CMH-01 (EXISTING)	LCP-26	SPARE
DB-C2602	1	I-26-060	2"	FO CABLE, BY DIV. 40	LCP-26	CMH-2601	FROM LCP-26 TO LCP-24
	2	I-26-061	2"	EMPTY W/ PULLSTRING	LCP-26	CMH-2601	SPARE
DB-C2603	1	C-26-074	1"	8#14, #14GND	CP-26100	JB-26103A	HS-26101 & HS-26102
	2	C-26-079	2"	24#14, #14GND	CP-26100	JB-26103	
	3	C-26-093	1"	EMPTY W/ PULLSTRING	THERMAL DRYER FACILITY ELECTRICAL ROOM	DEWATERED CAKE HANDLING	SPARE
	4	C-26-094	1"	EMPTY W/ PULLSTRING	THERMAL DRYER FACILITY ELECTRICAL ROOM	DEWATERED CAKE HANDLING	SPARE
	5	C-26-074	1"	8#14, #14GND	CP-26100	JB-26103A	HS-26101 & HS-26102
	6	I-26-030	1-1/2"	4-2/C#16TSH	CP-26100	JB-26103	
DB-C2604	1	C-26-097	2"	24#14, #14GND	CP-26100	JB-26104	
	2	C-26-110	1"	8#14, #14GND	CP-26100	JB-26104A	HS-26111 & HS-26112
	3	C-26-115	1"	EMPTY W/ PULLSTRING	THERMAL DRYER FACILITY ELECTRICAL ROOM	DEWATERED CAKE HANDLING	SPARE
	4	C-26-116	1"	EMPTY W/ PULLSTRING	THERMAL DRYER FACILITY ELECTRICAL ROOM	DEWATERED CAKE HANDLING	SPARE
	5	C-26-109	1"	4#14, #14GND	CP-26107	TSH-26114	
	6	I-26-040	1-1/2"	4-2/C#16TSH	CP-26100	JB-26104	
DB-C2701	1	C-27-002	1"	4#14, #14GND	CJB-2701	CHH-2701	LCP-11 OUTPUTS
	2	C-27-005	1-1/2"	20#14, #14GND	CJB-2701	CHH-2701	LCP-11 INPUTS
	3	C-27-009	1-1/2"	16#14, #14GND	CJB-2701	CHH-2701	VCP27110
	4	C-27-013	1-1/2"	16#14, #14GND	CJB-2701	CHH-2701	VCP27110
	5	C-27-019	2"	EMPTY W/ PULLSTRING	CJB-2701	CHH-2701	SPARE
	6	C-27-020	2"	EMPTY W/ PULLSTRING	CJB-2701	CHH-2701	SPARE
	7	I-27-003	1-1/2"	2/C#16TSH	CJB-2701	CHH-2701	VCP-27110
	8	I-27-008	1-1/2"	2/C#16TSH	CJB-2701	CHH-2701	VCP-27110
DB-C2702	1	C-27-003	1"	4#14, #14GND	CHH-2701	VCP27110	LCP-11 OUTPUTS
	2	C-27-006	1-1/2"	20#14, #14GND	CHH-2701	VCP27110	LCP-11 INPUTS
	3	C-27-010	1-1/2"	16#14, #14GND	CHH-2701	VCP27110	
	4	C-27-014	1-1/2"	16#14, #14GND	CHH-2701	VCP27110	
	5	C-27-021	2"	EMPTY W/ PULLSTRING	CHH-2701	CONDUIT STUB UP	SPARE
	6	C-27-022	2"	EMPTY W/ PULLSTRING	CHH-2701	CONDUIT STUB UP	SPARE
	7	I-27-004	1-1/2"	2/C#16TSH	CHH-2701	VCP27110	
	8	I-27-009	1-1/2"	2/C#16TSH	CHH-2701	VCP27110	

NOTES:

1. REMOVE TEMPORARY FIBER OPTIC CABLE UPON INSTALLATION OF PERMANENT CABLE AS SHOWN ON DRAWING 01-E-202.
2. HATCHING INDICATES DUCTBANK BEING DEMOLISHED.

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0 — 1/2" — 1")

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY VESSELA KANCHEVA, P.E. No. 35253 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

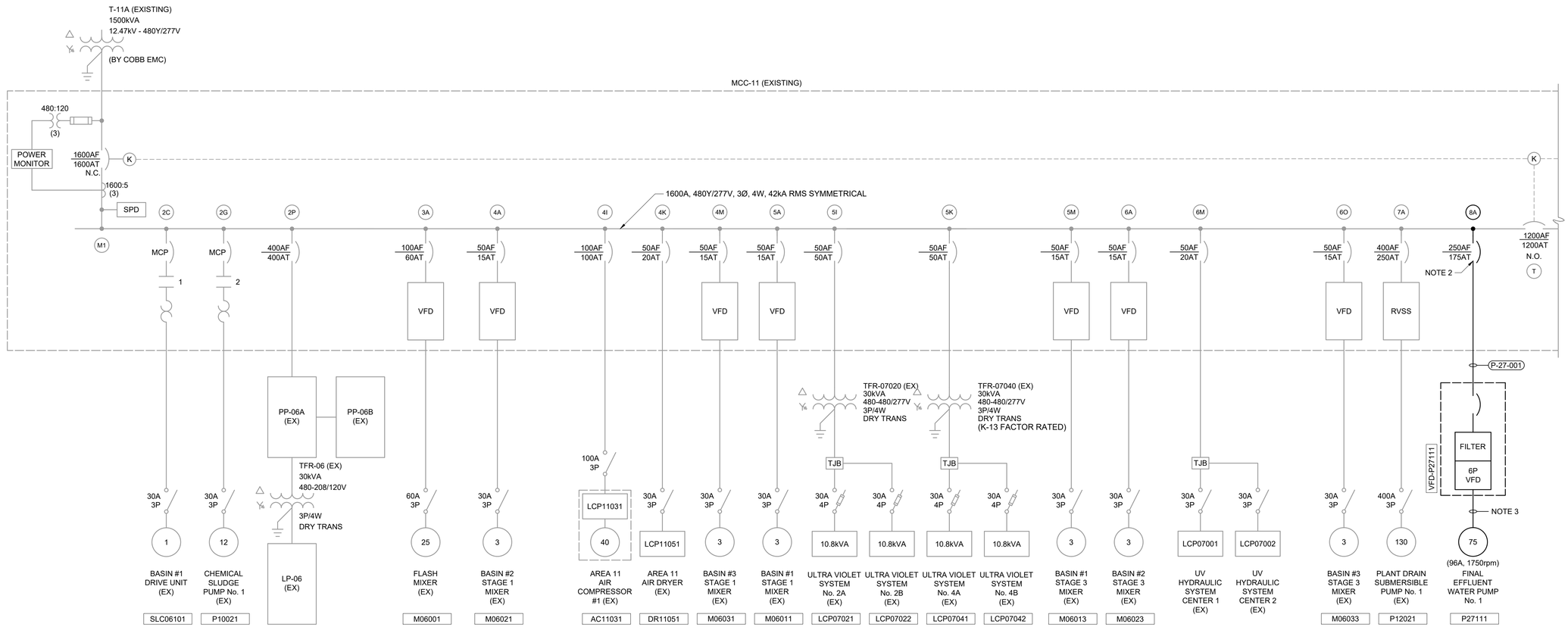
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

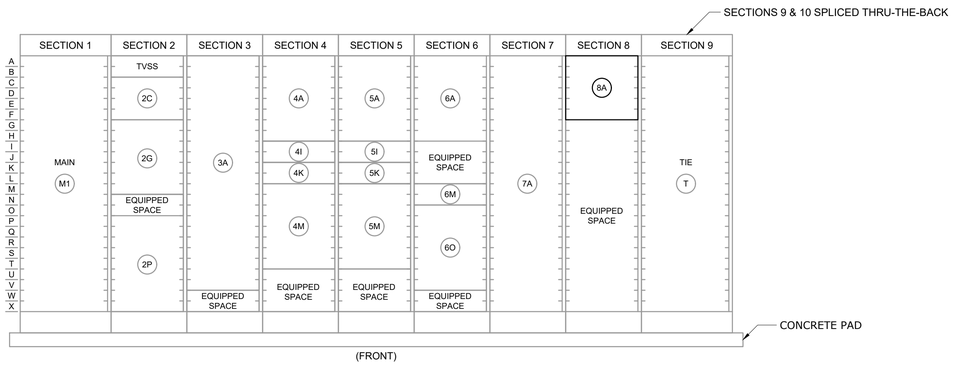
SITE ELECTRICAL DUCTBANK SCHEDULES

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 01-E-204

File: C:\USERS\DELAM\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\01-E-204 Saved by DELAM Save date: 3/4/2026 7:23 AM
PLOT DATE: 3/4/2026 8:41 AM BY: DELAM



MCC-11 SINGLE LINE DIAGRAM (MODIFIED)



MCC-11 ELEVATION (MODIFIED)

NTS

NOTES:

1. EXISTING MCC-11 IS SQUARE D MODEL 6, FACTORY ORDER No. 21006405-004.
2. PROVIDE BRANCH CIRCUIT BREAKER UNIT FOR THE FINAL EFFLUENT WATER PUMP AS SHOWN, MATCHING THE EXISTING MCC BREAKERS.
3. SEE POWER BLOCK DIAGRAM ON DRAWING 27-E-002 FOR CONDUIT AND CONDUCTOR REQUIREMENTS.
4. REFERENCE 01 14 00 FOR CONSTRUCTION SEQUENCING CONSTRAINTS.

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY VESSELA KANCHEVA, P.E. No. 35253 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

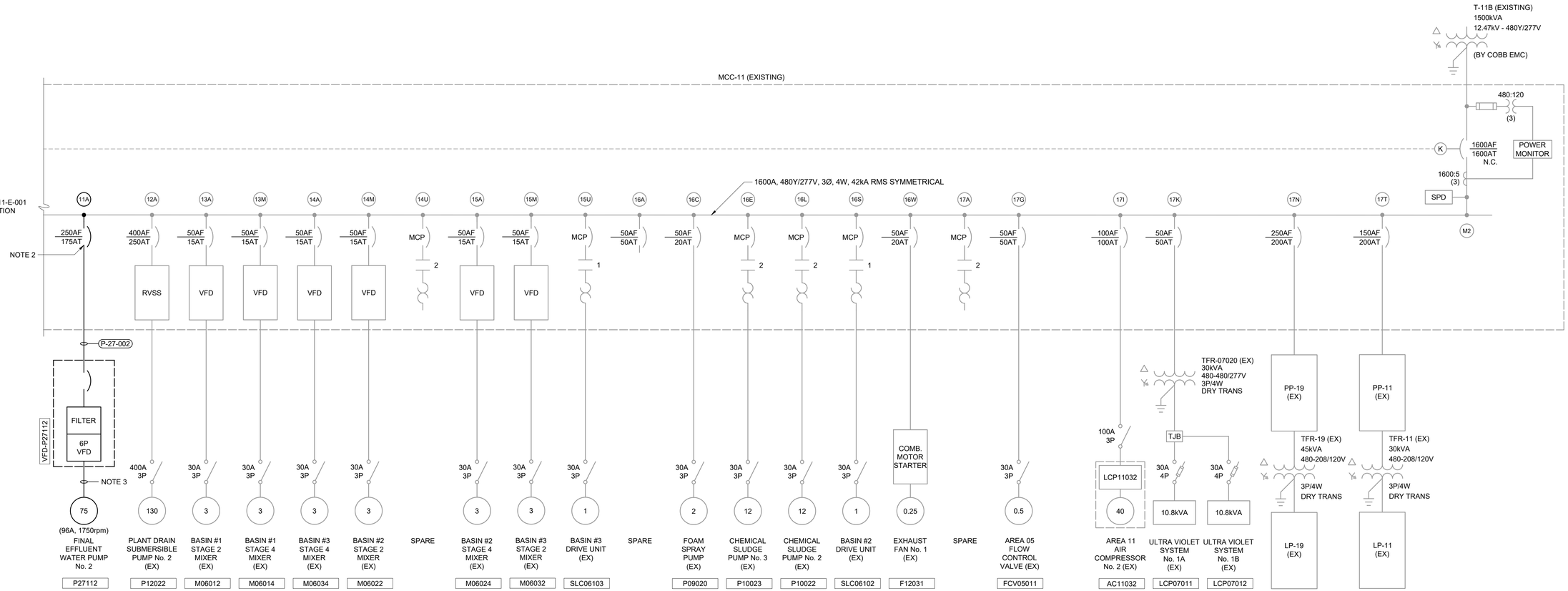
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

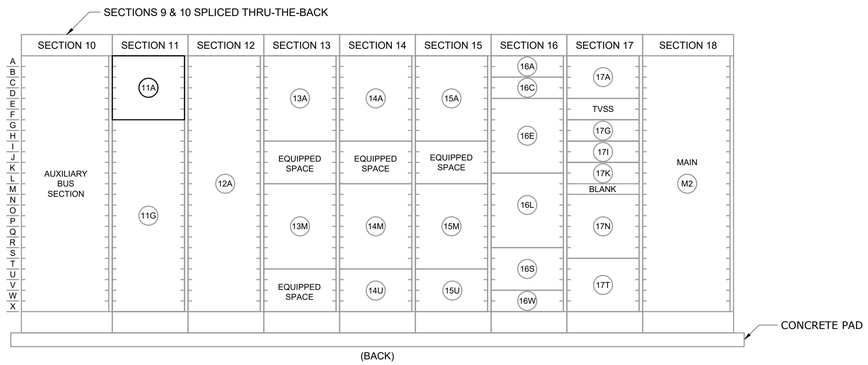
COMPRESSOR BUILDING
ELECTRICAL
MCC-11 SINGLE LINE DIAGRAM AND ELEVATION

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 11-E-001

File: C:\USERS\DELAM\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\11-E-001 Saved by DELAM Save date: 3/4/2026 7:23 AM
PLOT DATE: 3/4/2026 8:41 AM BY: DELAM



MCC-11 SINGLE LINE DIAGRAM (MODIFIED)



MCC-11 ELEVATION (MODIFIED)

NTS

NOTES:

1. EXISTING MCC-11 IS SQUARE D MODEL 6, FACTORY ORDER No. 21006405-004.
2. PROVIDE BRANCH CIRCUIT BREAKER UNIT FOR THE FINAL EFFLUENT WATER PUMP AS SHOWN, MATCHING THE EXISTING MCC BREAKERS.
3. SEE POWER BLOCK DIAGRAM ON DRAWING 27-E-002 FOR CONDUIT AND CONDUCTOR REQUIREMENTS.
4. REFERENCE 01 14 00 FOR CONSTRUCTION SEQUENCING CONSTRAINTS.

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

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PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	V. KANCHEVA
DRAWN BY:	D. ELAM
CHECKED BY:	N. MEYER

CONFORMED DRAWING

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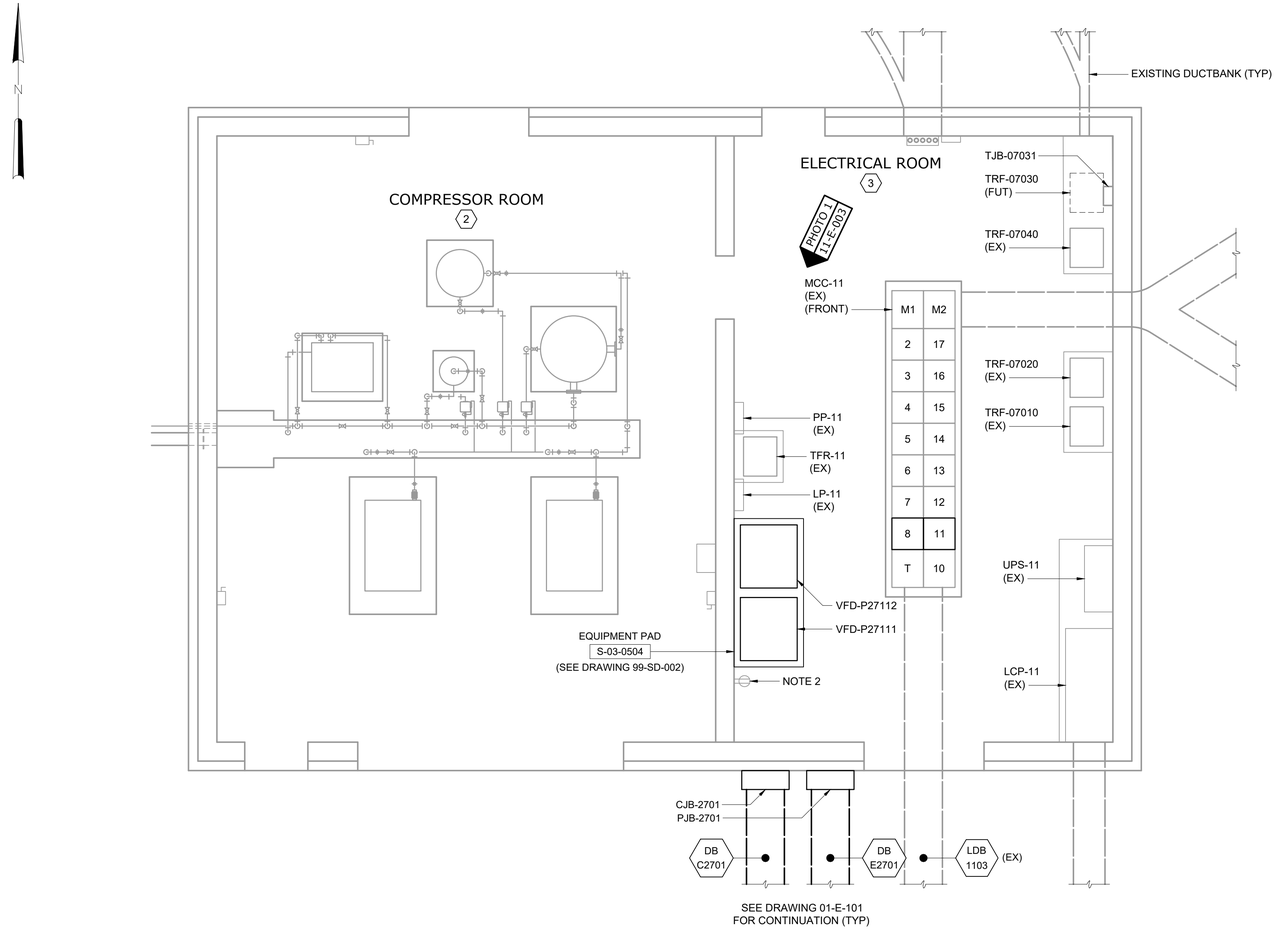
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

COMPRESSOR BUILDING
ELECTRICAL
MCC-11 SINGLE LINE DIAGRAM AND ELEVATION

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA NO.:	2022_007
DRAWING NUMBER:	11-E-002

File: C:\USERS\DELAM\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\11-E-002 Saved by DELAM Save date: 3/4/2026 7:23 AM
PLOT DATE: 3/4/2026 8:41 AM BY: DELAM



PLAN
1/4" = 1'-0"

NOTES:

1. CONNECT DUCTBANKS TO STRUCTURE PER STANDARD DETAIL 33-E-0108.
2. RELOCATE RECEPTACLE AS REQUIRED FOR INSTALLATION OF VFDs.

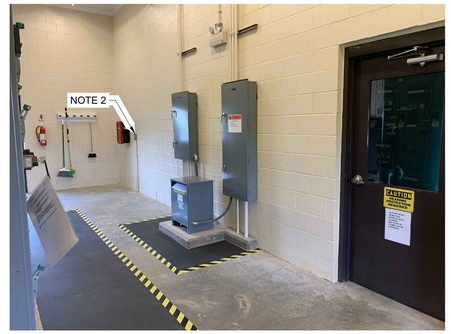


PHOTO 1
NO SCALE

AREA LEGEND:

1. INDOOR WET PROCESS AREA
2. INDOOR DRY PROCESS AREA
3. INDOOR DRY NON-PROCESS AREA
4. INDOOR TYPE 1 CHEMICAL AREA
5. INDOOR TYPE 2 CHEMICAL AREA

1/4"=1'-0" (1 0 1 2 3 7')

REV	ISSUED FOR	DATE	BY
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2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER
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CONFORMED DRAWING

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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

COMPRESSOR BUILDING ELECTRICAL PLAN

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 11-E-003

File: C:\USERS\DELAM\DC\ACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\11-E-003 Saved by DELAM Save date: 3/4/2026 7:24 AM
PLOT DATE: 3/4/2026 8:41 AM BY: DELAM

208/120V, 3P, 4W

LP-11 (EX)

MAIN BREAKER

TYPE: NEMA 12

MOUNT: SURFACE

10kA RMS SYMMETRICAL

100A 3P

MODS	DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	CKT No.	VOLT-AMPERES A	VOLT-AMPERES B	VOLT-AMPERES C
-	RECP - AREA 11	-	20	1	1	EX		
-	RECP - AREA 11	-	20	1	3		EX	
-	RECP - AREA 10	-	20	1	5			EX
-	RECP AREA 10 SUMP PUMP	-	20	1	7	EX		
-	10-EF-1, 10-SF-1	-	20	1	9		EX	
-	11-AHU-1	-	15	2	11			EX
					13	EX		
-	SPARE	-	20	1	15		-	
-	SPARE	-	20	1	17			-
-	EXISTING LOAD	-	20	1	19	EX		
-	SPARE	-	20	1	21		-	
-	LCP 12001	-	20	1	23			EX
-	EXHAUST FAN	-	30	2	25	EX		
-					27		EX	
-	SPACE	-	-	1	29			-
-	SPACE	-	-	1	31	-		
-	SPACE	-	-	1	33		-	
-	SPACE	-	-	1	35			-
-	SPACE	-	-	1	37	-		
-	SPACE	-	-	1	39		-	
-	SPACE	-	-	1	41			-

VOLT-AMPERES A	VOLT-AMPERES B	VOLT-AMPERES C	CKT No.	POLE	TRIP	CONDUIT & WIRE	DESCRIPTION	MODS	
EX			2	1	20	-	RECP - AREA 5	-	
	EX		4	1	20	-	5-SF-1, 5-EF-1	-	
		EX	6	1	20	-	RECP - AREA 12	-	
EX			8	2	60	-	11-CU-1	-	
	EX		10						
		1,000	12	1	20	NOTE 3	VCP-27110	-	NOTE 2
70			14	1	20	NOTE 3	LTG - AREA 27	-	NOTE 2
	180		16	1	20	NOTE 3	RECP - AREA 27 EQUIP. RACK	-	NOTE 2
		865	18	1	20	NOTE 3	RECP - SP27113	-	NOTE 2
865			20	1	20	NOTE 3	RECP - EHH/CHH-2701	-	NOTE 2
	-		22	1	-	-	SPACE	-	
		-	24	1	-	-	SPACE	-	
-			26	1	-	-	SPACE	-	
	-		28	1	-	-	SPACE	-	
		-	30	1	-	-	SPACE	-	
EX			32	1	20	-	RECP - MH 1101 SUMP PUMP	-	
	EX		34	1	20	-	RECP - MH 1102 SUMP PUMP	-	
		EX	36	1	20	-	AIR COMP. BACKUP LCP11030	-	
EX			38	1	20	-	SPARE	-	
	EX		40	1	20	-	CS09010 EFFLUENT SAMPLER	-	
		EX	42	1	20	-	LCP-11 UPS/BATTERY CABINET	-	

TOTAL	0	0	0
PHASE TOTAL (VA)	935	180	1,865
TOTAL LOAD (VA)	2,980		
PHASE TOTAL (A)	8	2	16
TOTAL LOAD (A)	8		

MODIFICATION (MODS) LEGEND:

GFCI - GROUND FAULT CIRCUIT INTERRUPTER (5mA)

EPD - EQUIPMENT PROTECTION DEVICE (30mA GFCI)

LOD - LOCK-ON DEVICE

LFD - LOCK-OFF DEVICE

ETU - ELECTRONIC TRIP UNIT

NOTES/ACCESSORIES:

100kA SPD

LTG/RECP CIRCUITS (WHERE NOTED ABOVE):

NOTES:

1. EXISTING PANEL LP-11 IS SQUARE-D, NQOD LINE, SERIAL NUMBER MH41WP.
2. PROVIDE MATCHING TYPE CIRCUIT BREAKER IN EXISTING SPACE. UPDATE PANELBOARD DIRECTORY.
3. SEE FINAL EFFLUENT WATER PUMP STATION BLOCK DIAGRAMS ON 27-E-002 FOR CONDUIT AND CONDUCTOR REQUIREMENTS.

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH

DESIGNED BY: V. KANCHEVA

DRAWN BY: D. ELAM

CHECKED BY: N. MEYER

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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

COMPRESSOR BUILDING
ELECTRICAL
LP-11 PANELBOARD SCHEDULE

DATE: NOVEMBER 2025

HAZEN NO.: 32307-007

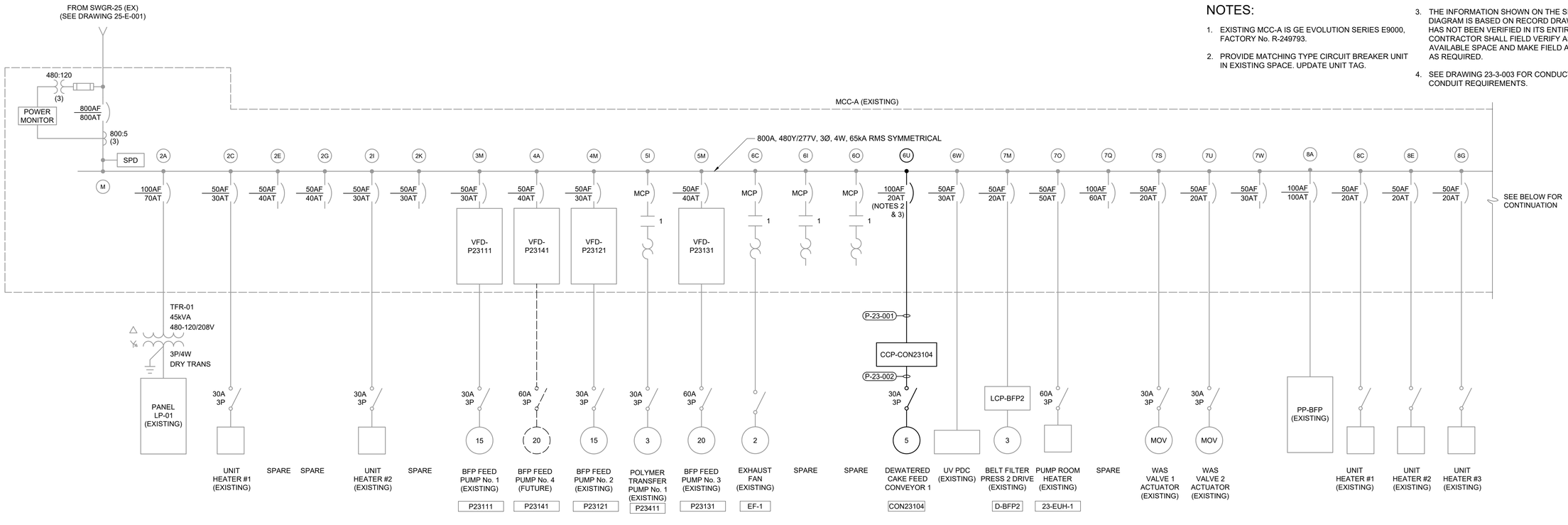
CCWSA NO.: 2022_007

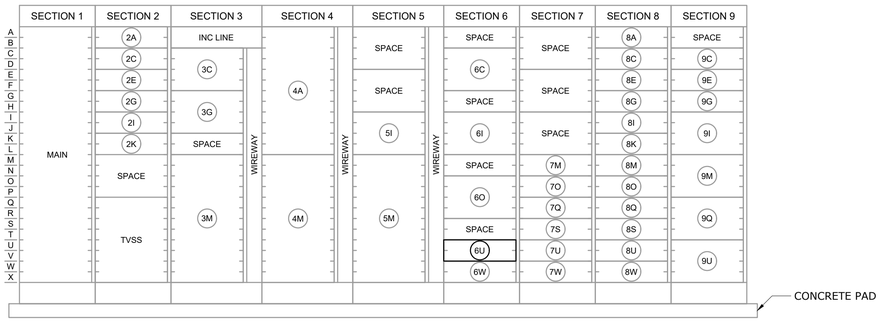
DRAWING NUMBER: 11-E-004

File: C:\USERS\DELAM\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\11-E-004 Saved by DELAM Save date: 3/4/2026 7:24 AM
PLOT DATE: 3/4/2026 8:41 AM BY: DELAM

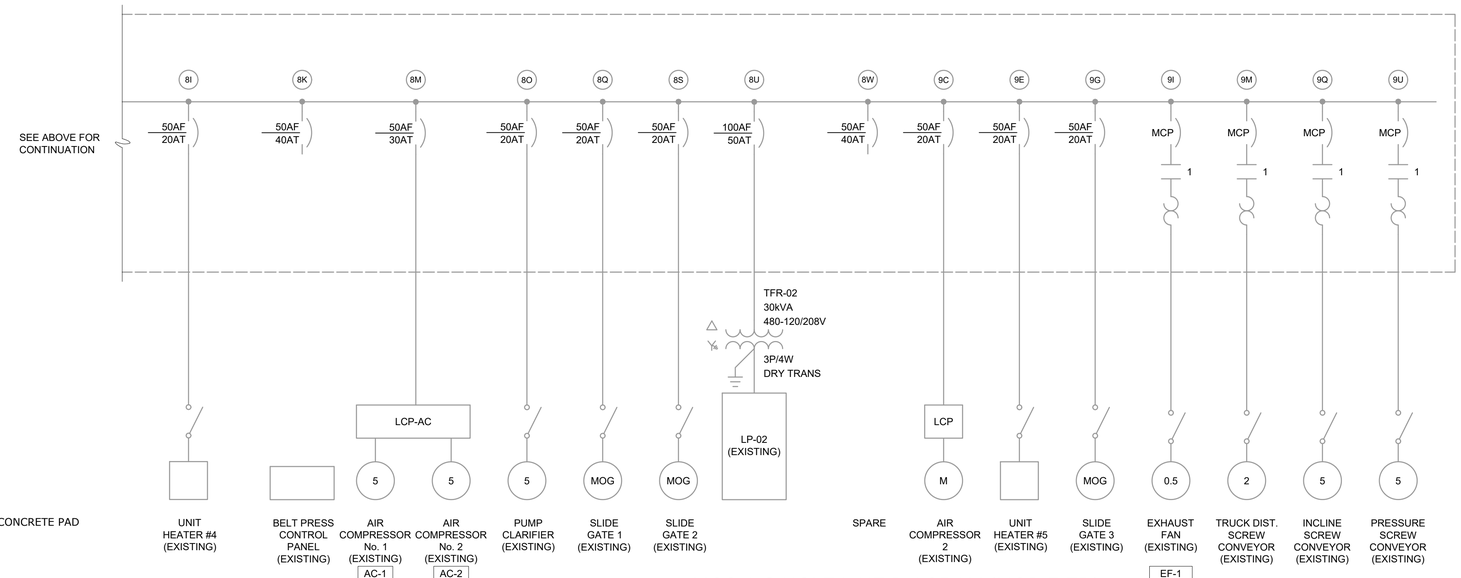
NOTES:

1. EXISTING MCC-A IS GE EVOLUTION SERIES E9000, FACTORY No. R-249793.
2. PROVIDE MATCHING TYPE CIRCUIT BREAKER UNIT IN EXISTING SPACE. UPDATE UNIT TAG.
3. THE INFORMATION SHOWN ON THE SINGLE-LINE DIAGRAM IS BASED ON RECORD DRAWINGS AND HAS NOT BEEN VERIFIED IN ITS ENTIRETY. CONTRACTOR SHALL FIELD VERIFY AS REQUIRED AVAILABLE SPACE AND MAKE FIELD ADJUSTMENTS AS REQUIRED.
4. SEE DRAWING 23-3-003 FOR CONDUCTOR AND CONDUIT REQUIREMENTS.





MCC-A ELEVATION (MODIFIED)
NTS



MCC-A SINGLE LINE DIAGRAM (MODIFIED)

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
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PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	V. KANCHEVA
DRAWN BY:	D. ELAM
CHECKED BY:	N. MEYER

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GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

DEWATERING BUILDING No. 1
ELECTRICAL
MCC-A SINGLE LINE DIAGRAM AND ELEVATION

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA NO.:	2022_007
DRAWING NUMBER:	23-E-001

File: C:\USERS\DELAM\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\23-E-001 Saved by DELAM Save date: 3/4/2026 7:24 AM
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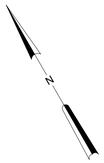

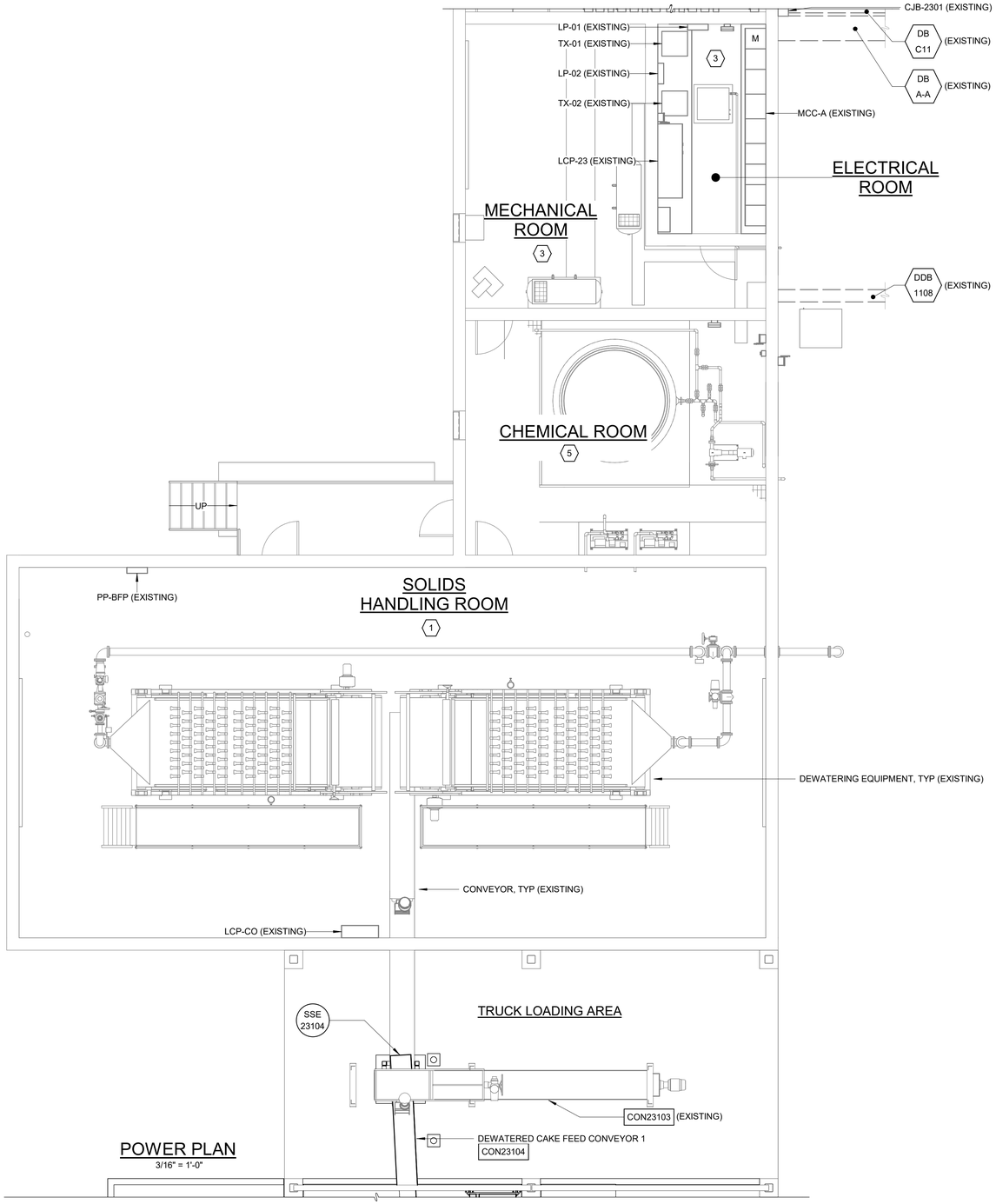

NOTES:

1. FIELD ROUTE EXPOSED CONDUITS FROM LCP-23 AND PP-BFP THROUGH THE INTERIOR OF THE DEWATERING BUILDING TO THE TRUCK LOADING AREA.
2. CORE-DRILL WALLS FOR CONDUIT OPENSINGS. SEAL ALL WALL PENETRATIONS. UTILIZE TWO-HOUR FIRE RATED MATERIALS FOR ELECTRICAL ROOM PENETRATIONS.

AREA LEGEND:

1. INDOOR WET PROCESS AREA
2. INDOOR DRY PROCESS AREA
3. INDOOR DRY NON-PROCESS AREA
4. TYPE 1 CHEMICAL STORAGE/TRANSFER AREA
5. TYPE 2 CHEMICAL STORAGE/TRANSFER AREA

3/16" = 1'-0" 6 4 2 0 5'

REV	ISSUED FOR	DATE	BY
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2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

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CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

DEWATERING BUILDING No. 1 ELECTRICAL PLAN

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 23-E-002

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-23-DWI-E.rvt
3/4/2026 7:53:08 AM

480V, 3P, 3W (WYE)
225A BUS
35kA (MINIMUM)

PP-BFP (EXISTING)
MAIN BREAKER W/ETU (LSI)
225AF/225AP/150AT, 3P

TYPE: NEMA 4X
MOUNT: SURFACE

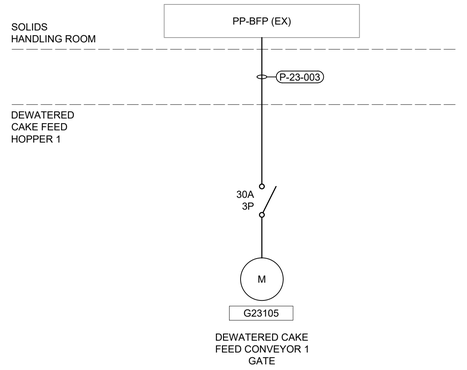
MODS	DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	CKT No.	VOLT-AMPERES A	VOLT-AMPERES B	VOLT-AMPERES C	VOLT-AMPERES A	VOLT-AMPERES B	VOLT-AMPERES C	CKT No.	POLE	TRIP	CONDUIT & WIRE	DESCRIPTION	MODS
-	UNIT HEATER 5	-	20	3	1	-			-			2					
					3		-			-		4	3	20	-	UNIT HEATER 7	-
					5			-			-	6					
-	UNIT HEATER 6	-	20	3	7	-			-			8					
					9		-			-		10	3	20	-	UNIT HEATER 8	-
					11			-			-	12					
-	EXHAUST FAN	-	20	3	13	-			-			14					
					15		-			-		16	3	20	-	VALVE ACTUATOR BP2	-
					17			-			-	18					
NOTE 2 →	G23105	NOTE 3	20	3	19	750			-			20					
					21		750			-		22	3	20	-	VALVE ACTUATOR BP1	-
					23			750			-	24					
-	SPARE	-	20	3	25	-			-			26					
					27		-			-		28	-	20	-	SPACE	-
					29			-			-	30					
-	SPACE	-	-	3	31	-			-			32					
					33		-			-		34	-	20	-	SPACE	-
					35			-			-	36					
-	SPACE	-	-	3	37	-			-			38					
					39		-			-		40	-	20	-	SPACE	-
					41			-			-	42					

MODIFICATION (MODS) LEGEND:
GFCI - GROUND FAULT CIRCUIT INTERRUPTER (5mA)
EPD - EQUIPMENT PROTECTION DEVICE (30mA GFCI)
LOD - LOCK-ON DEVICE
LFD - LOCK-OFF DEVICE
ETU - ELECTRONIC TRIP UNIT

TOTAL	750	750	750	0	0	0	TOTAL
	PHASE TOTAL (VA)			TOTAL LOAD (VA)			
	750	750	750	2,250			
	PHASE TOTAL (A)			TOTAL LOAD (A)			
	3	3	3	3			

NOTES/ACCESSORIES:
100kA SPD

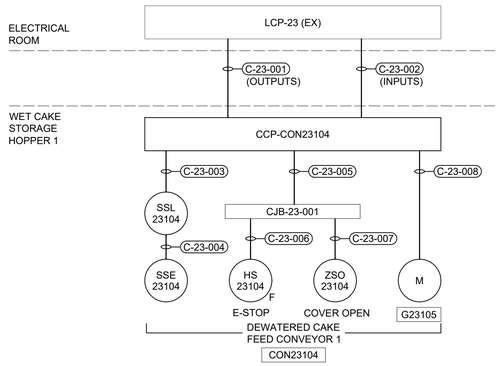
LTG/RECP CIRCUITS (WHERE NOTED ABOVE):



DEWATERED CAKE FEED CONVEYOR 1 GATE
POWER BLOCK DIAGRAM

CONDUIT No.	SIZE	FROM	TO	CONDUCTORS	REMARKS
P-23-001	3/4"	MCC-A (EXISTING)	CCP-CON23104	3#10, #10GND	
P-23-002	3/4"	CCP-CON23104	CON23104	3#10, #10GND	VIA DSW
P-23-003	3/4"	PP-BFP (EX)	G23105	3#10, #10GND	VIA DSW
P-23-004					

CONDUIT No.	SIZE	FROM	TO	CONDUCTORS	REMARKS
C-23-001	3/4"	LCP-23 (EXISTING)	CCP-CON23104	4#14, #14GND	
C-23-002	3/4"	LCP-23 (EXISTING)	CCP-CON23104	8#14, #14GND	
C-23-003	3/4"	CCP-CON23104	SSL-23104	2#12, 2#14, #12GND	
C-23-004	1"	SSL-23104	SSE-23104	MANUFACTURER SUPPLIED CABLE	
C-23-005	3/4"	CCP-CON23104	CJB-23-001	6#14, #14GND	
C-23-006	3/4"	CJB-23-001	HS-23104F	4#14, #14GND	
C-23-007	3/4"	CJB-23-001	ZSO-23104	2#14, #14GND	
C-23-008	3/4"	CCP-CON23104	G23105	10#14, #14GND	
C-23-009					



DEWATERED CAKE FEED CONVEYOR 1 CONTROL PANEL
CONTROL BLOCK DIAGRAM

NOTES:

1. EXISTING PANELBOARD PP-BFP IS GE A-SERIES.
2. UTILIZE EXISTING SPARE CIRCUIT BREAKER FOR THE NEW CIRCUIT. UPDATE PANELBOARD DIRECTORY.
3. SEE POWER BLOCK DIAGRAM ON THIS SHEET FOR CONDUIT AND WIRE SIZES.
4. REFER TO DRAWING 26-E-008 FOR THE LOCATION OF GATE G23105, CONVEYOR CONTROL PANEL CCP-23104, AND ZERO-SPEED PROTECTION RELAY SSL-23104.
5. ROUTE CONDUCTORS FOR PLC INPUTS IN A SEPARATE CONDUIT FROM CONDUCTORS FOR PLC OUTPUTS.

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY VESSELA KANCHEVA, P.E. No. 35253 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

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HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

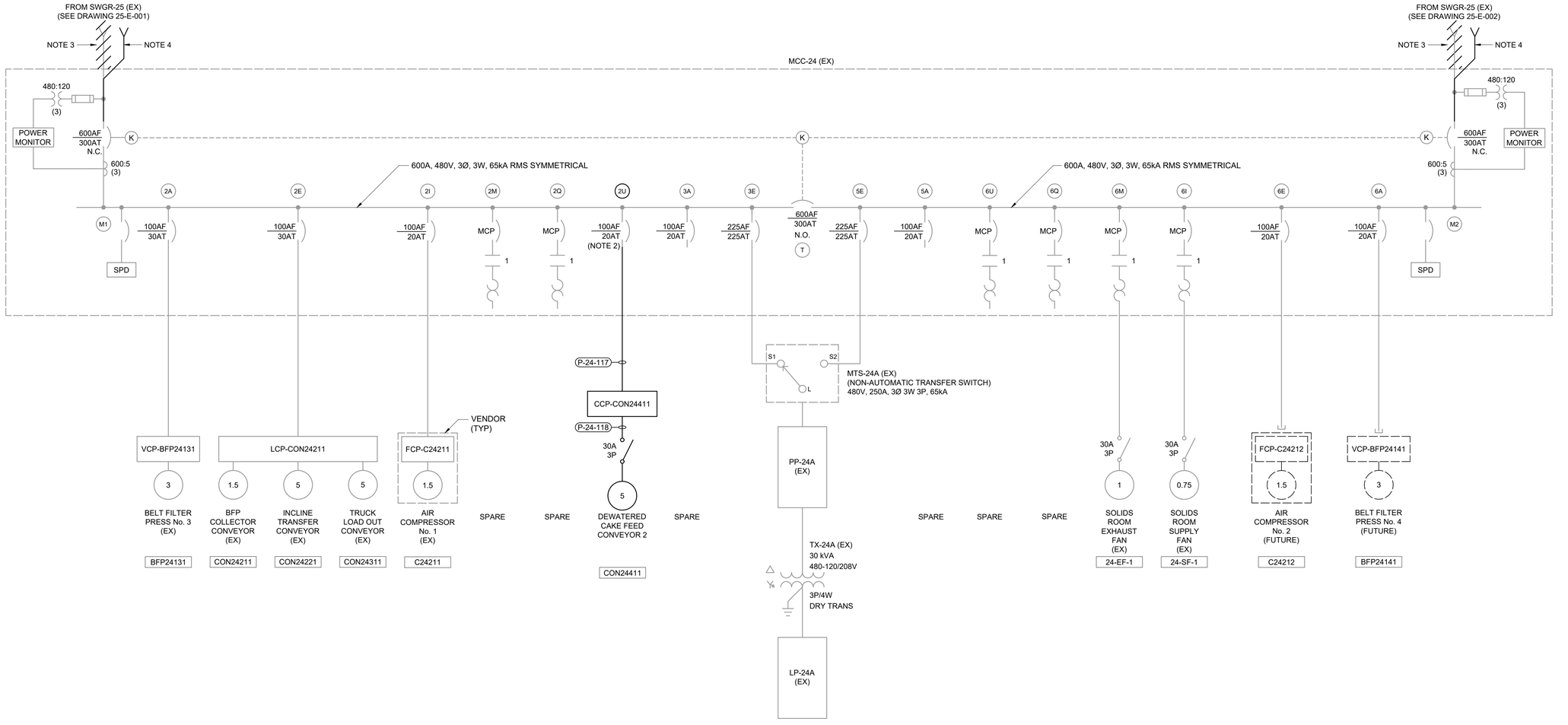
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

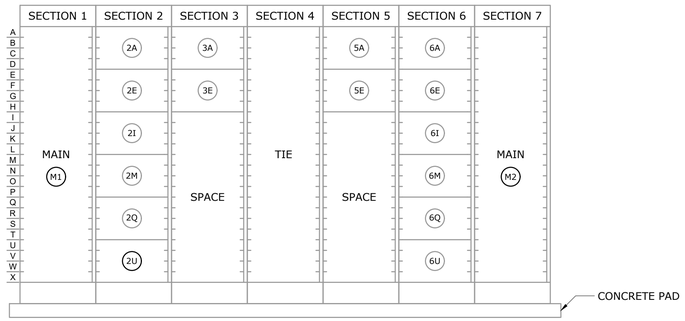
DEWATERING BUILDING No. 1
ELECTRICAL
SCHEDULES AND BLOCK DIAGRAMS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 23-E-003

File: C:\USERS\DELAM\DC\ACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\23-E-003 Saved by DELAM Save date: 3/4/2026 7:24 AM
PLOT DATE: 3/4/2026 8:42 AM BY: DELAM



MCC-24 SINGLE LINE DIAGRAM (MODIFIED)



MCC-24 ELEVATION (MODIFIED)

NTS

NOTES:

1. EXISTING MCC-24 IS SQUARE-D MODEL 6 MOTOR CONTROL CENTER.
2. UTILIZE EXISTING SPARE BREAKER. PROVIDE UPDATED NAMEPLATE.
3. REMOVE EXISTING FEEDER CONDUCTORS FROM SWGR-25 TO MCC-24 .
4. INSTALL NEW FEEDER CONDUCTORS FROM SWGR-25 TO MCC-24 AS SHOWN ON SWGR-25 SINGLE LINE DIAGRAM ON DRAWINGS 25-E-001 AND 25-E-002.
5. SEE DRAWING 24-E-003 FOR CONDUCTOR AND CONDUIT REQUIREMENTS.

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER
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CONFORMED DRAWING

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GBPE LIC #: PEF003685 EXP: 6/30/2026

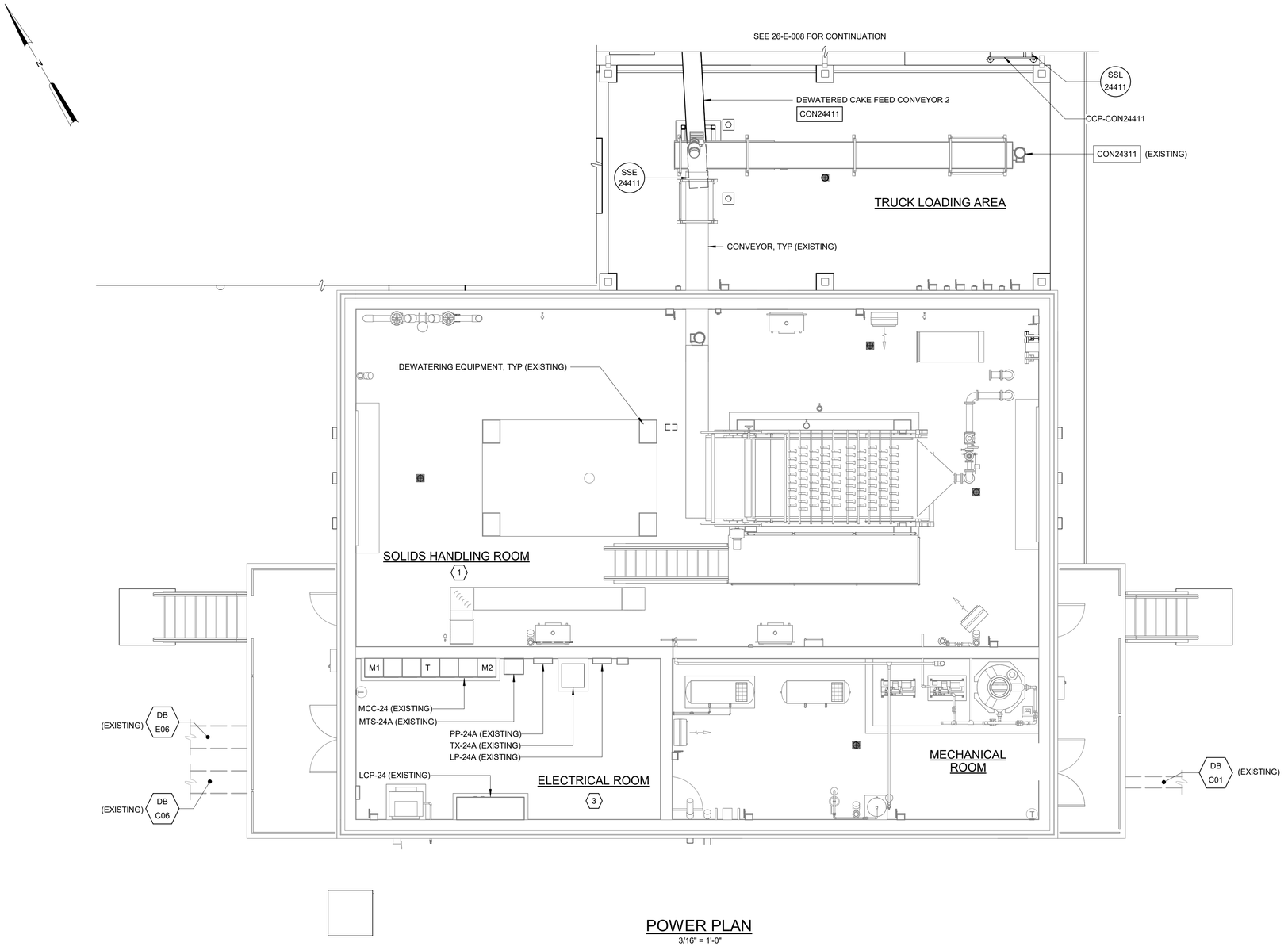
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

DEWATERING BUILDING No. 2
ELECTRICAL
MCC-24 SINGLE LINE DIAGRAM AND ELEVATION

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 24-E-001

File: C:\USERS\DELAM\DC\ACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\24-E-001 Saved by DELAM Save date: 3/4/2026 7:25 AM
PLOT DATE: 3/4/2026 8:42 AM BY: DELAM



POWER PLAN

3/16" = 1'-0"

NOTES:

1. FIELD ROUTE EXPOSED CONDUITS FROM LCP-24 AND PP-24A THROUGH THE INTERIOR OF THE DEWATERING BUILDING TO THE TRUCK LOADING AREA.
2. CORE-DRILL WALLS FOR CONDUIT OPENINGS. SEAL ALL WALL PENETRATIONS. UTILIZE TWO-HOUR FIRE RATED MATERIALS FOR ELECTRICAL ROOM PENETRATIONS.

AREA LEGEND:

1. INDOOR WET PROCESS AREA
2. INDOOR DRY PROCESS AREA
3. INDOOR DRY NON-PROCESS AREA
4. TYPE 1 CHEMICAL STORAGE/TRANSFER AREA
5. TYPE 2 CHEMICAL STORAGE/TRANSFER AREA

3/16" = 1'-0" 6 4 2 0 5'

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

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PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER

CONFORMED DRAWING

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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

DEWATERING BUILDING No. 2 ELECTRICAL POWER PLAN

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 24-E-002

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-24-DW2-E.rvt
3/4/2026 7:54:01 AM

NOTES:

1. EXISTING PANELBOARD PP-24A IS SQUARE-D NF SERIES.
2. UTILIZE EXISTING SPARE CIRCUIT BREAKER FOR THE NEW CIRCUIT. UPDATE PANELBOARD DIRECTORY.
3. SEE POWER BLOCK DIAGRAM ON THIS SHEET.
4. REFER TO DRAWING 26-E-008 FOR THE LOCATION OF GATE G24421, CONVEYOR CONTROL PANEL CCP-24411, AND ZERO-SPEED PROTECTION RELAY SSL-24411.
5. ROUTE CONDUCTORS FOR PLC INPUTS IN A SEPARATE CONDUIT FROM CONDUCTORS FOR PLC OUTPUTS.

CONDUIT No.	SIZE	FROM	TO	CONDUCTORS	REMARKS
P-24-000	4" (EX)	SWGR-25 (EXISTING)	EMH-01 (EXISTING)	3-500KCMIL, #1/0GND	MCC-24 MAIN 1 (1 OF 2)
P-24-001	4" (EX)	SWGR-25 (EXISTING)	EMH-01 (EXISTING)	3-500KCMIL, #1/0GND	MCC-24 MAIN 1 (2 OF 2)
P-24-002	4" (EX)	SWGR-25 (EXISTING)	EMH-01 (EXISTING)	EMPTY W/ PULLSTRING	SPARE
P-24-003	4" (EX)	SWGR-25 (EXISTING)	EMH-01 (EXISTING)	3-500KCMIL, #1/0GND	MCC-24 MAIN 2 (1 OF 2)
P-24-004	4" (EX)	SWGR-25 (EXISTING)	EMH-01 (EXISTING)	3-500KCMIL, #1/0GND	MCC-24 MAIN 2 (2 OF 2)
P-24-005	4" (EX)	SWGR-25 (EXISTING)	EMH-01 (EXISTING)	EMPTY W/ PULLSTRING	SPARE
P-24-006					
P-24-007					
P-24-008	4" (EX)	EMH-01 (EXISTING)	EMH-02 (EXISTING)	3-350KCMIL, #1GND (EX)	MCC-24 MAIN 1 (1 OF 2)
P-24-009	4" (EX)	EMH-01 (EXISTING)	EMH-02 (EXISTING)	3-350KCMIL, #1GND (EX)	MCC-24 MAIN 1 (2 OF 2)
P-24-010	4" (EX)	EMH-01 (EXISTING)	EMH-02 (EXISTING)	EMPTY W/ PULLSTRING	SPARE
P-24-011	4" (EX)	EMH-01 (EXISTING)	EMH-02 (EXISTING)	3-350KCMIL, #1GND (EX)	MCC-24 MAIN 2 (1 OF 2)
P-24-012	4" (EX)	EMH-01 (EXISTING)	EMH-02 (EXISTING)	3-350KCMIL, #1GND (EX)	MCC-24 MAIN 2 (2 OF 2)
P-24-013	4" (EX)	EMH-01 (EXISTING)	EMH-02 (EXISTING)	EMPTY W/ PULLSTRING	SPARE
P-24-014					
P-24-015					
P-24-016	4" (EX)	EMH-02 (EXISTING)	MCC-24	3-500KCMIL, #1/0GND	MCC-24 MAIN 1 (1 OF 2)
P-24-017	4" (EX)	EMH-02 (EXISTING)	MCC-24	3-500KCMIL, #1/0GND	MCC-24 MAIN 1 (2 OF 2)
P-24-018	4" (EX)	EMH-02 (EXISTING)	MCC-24	EMPTY W/ PULLSTRING	SPARE
P-24-019	4" (EX)	EMH-02 (EXISTING)	MCC-24	3-500KCMIL, #1/0GND	MCC-24 MAIN 2 (1 OF 2)
P-24-020	4" (EX)	EMH-02 (EXISTING)	MCC-24	3-500KCMIL, #1/0GND	MCC-24 MAIN 2 (2 OF 2)
P-24-021	4" (EX)	EMH-02 (EXISTING)	MCC-24	EMPTY W/ PULLSTRING	SPARE
P-24-022					
P-24-023					
P-24-101	4"	EMH-01 (EXISTING)	EMH-26A	3-500KCMIL, #1/0GND	MCC-24 MAIN 1 (1 OF 2)
P-24-102	4"	EMH-01 (EXISTING)	EMH-26A	3-500KCMIL, #1/0GND	MCC-24 MAIN 1 (2 OF 2)
P-24-103	4"	EMH-01 (EXISTING)	EMH-26A	EMPTY W/ PULLSTRING	SPARE
P-24-104	4"	EMH-26A	EMH-02 (EXISTING)	3-500KCMIL, #1/0GND	MCC-24 MAIN 1 (1 OF 2)
P-24-105	4"	EMH-26A	EMH-02 (EXISTING)	3-500KCMIL, #1/0GND	MCC-24 MAIN 1 (2 OF 2)
P-24-106	4"	EMH-26A	EMH-02 (EXISTING)	EMPTY W/ PULLSTRING	SPARE
P-24-107					
P-24-108					
P-24-109	4"	EMH-01 (EXISTING)	EMH-26A	3-500KCMIL, #1/0GND	MCC-24 MAIN 2 (1 OF 2)
P-24-110	4"	EMH-01 (EXISTING)	EMH-26A	3-500KCMIL, #1/0GND	MCC-24 MAIN 2 (2 OF 2)
P-24-111	4"	EMH-01 (EXISTING)	EMH-26A	EMPTY W/ PULLSTRING	SPARE
P-24-112	4"	EMH-26A	EMH-02 (EXISTING)	3-500KCMIL, #1/0GND	MCC-24 MAIN 2 (1 OF 2)
P-24-113	4"	EMH-26A	EMH-02 (EXISTING)	3-500KCMIL, #1/0GND	MCC-24 MAIN 2 (2 OF 2)
P-24-114	4"	EMH-26A	EMH-02 (EXISTING)	EMPTY W/ PULLSTRING	SPARE
P-24-115					
P-24-116					
P-24-117	3/4"	MCC-24 (EXISTING)	CCP-CON24411	3#10, #10GND	
P-24-118	3/4"	CCP-CON24411	CON24411	3#10, #10GND	VIA DSW
P-24-119	3/4"	PP-24A (EX)	G24421	3#10, #10GND	VIA DSW
P-24-120					
P-24-121					

CONDUIT No.	SIZE	FROM	TO	CONDUCTORS	REMARKS
C-23-001	3/4"	LCP-24 (EXISTING)	CCP-CON24411	4#14, #14GND	
C-23-002	3/4"	LCP-24 (EXISTING)	CCP-CON24411	8#14, #14GND	
C-23-003	3/4"	CCP-CON24411	SSL-24411	2#12, 2#14, #12GND	
C-23-004	1"	SSL-24411	SSE-24411	MANUFACTURER SUPPLIED CABLE	
C-23-005	3/4"	CCP-CON24411	CJB-24-001	6#14, #14GND	
C-23-006	3/4"	CJB-24-001	HS-24411	4#14, #14GND	
C-23-007	3/4"	CJB-24-001	ZSO-24411	2#14, #14GND	
C-23-008	3/4"	CCP-CON24411	G24421	10#14, #14GND	
C-23-009					
C-23-010					

480V, 3P, 3W (WYE)
42kA RMS SYMMETRICAL

PP-24A (EXISTING)
MAIN BREAKER
225A

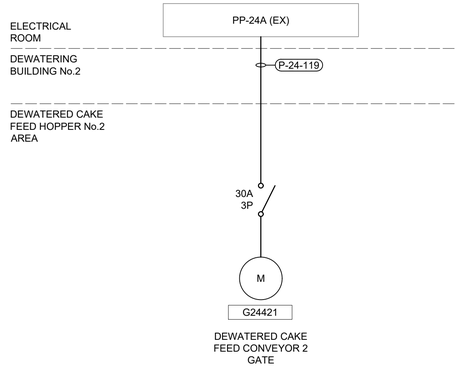
TYPE: NEMA 1
MOUNT: SURFACE

MODS	DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	CKT No.	VOLT-AMPERES A	VOLT-AMPERES B	VOLT-AMPERES C	CKT No.	POLE	TRIP	CONDUIT & WIRE	DESCRIPTION	MODS
					1	-			2					
-	G24321	-	20	3	3		-		4	3	30	-	24-EUH-1	-
					5			-	6					
					7	-			8					
-	G24322	-	20	3	9		-		10	3	40	-	24-EUH-2	-
					11			-	12					
					13	-			14					
-	G24323	-	30	3	15		-		16	3	40	-	SPARE	-
					17			-	18					
					19	750			20					
NOTE 2 →	- G24421	NOTE 3	20	3	21		750		22	3	20	-	SPARE	-
					23			750	24					
					25	-			26					
-	SPARE	-	20	3	27		-		28	3	20	-	SPARE	-
					29			-	30					
					31	-			32					
-	SPARE	-	20	3	33		-		34	3	20	-	SPARE	-
					35			-	36					
					37	-			38					
-	WATER HEATER	-	20	3	39		-		40	3	50	-	TX-24A	-
					41			-	42					

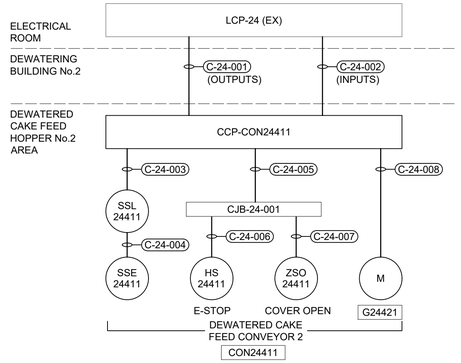
TOTAL	750	750	750	0	0	0	TOTAL
	PHASE TOTAL (VA)			TOTAL LOAD (VA)			
	750	750	750	2,250			
	PHASE TOTAL (A)			TOTAL LOAD (A)			
	3	3	3	3			

MODIFICATION (MODS) LEGEND:
GFCI - GROUND FAULT CIRCUIT INTERRUPTER (5mA)
EPD - EQUIPMENT PROTECTION DEVICE (30mA GFCI)
LOD - LOCK-ON DEVICE
LFD - LOCK-OFF DEVICE
ETU - ELECTRONIC TRIP UNIT

NOTES/ACCESSORIES:
100kA SPD



DEWATERED CAKE FEED CONVEYOR 2 GATE
POWER BLOCK DIAGRAM



DEWATERED CAKE FEED CONVEYOR 2 GATE
CONTROL BLOCK DIAGRAM

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
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1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER

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CONFORMED DRAWING

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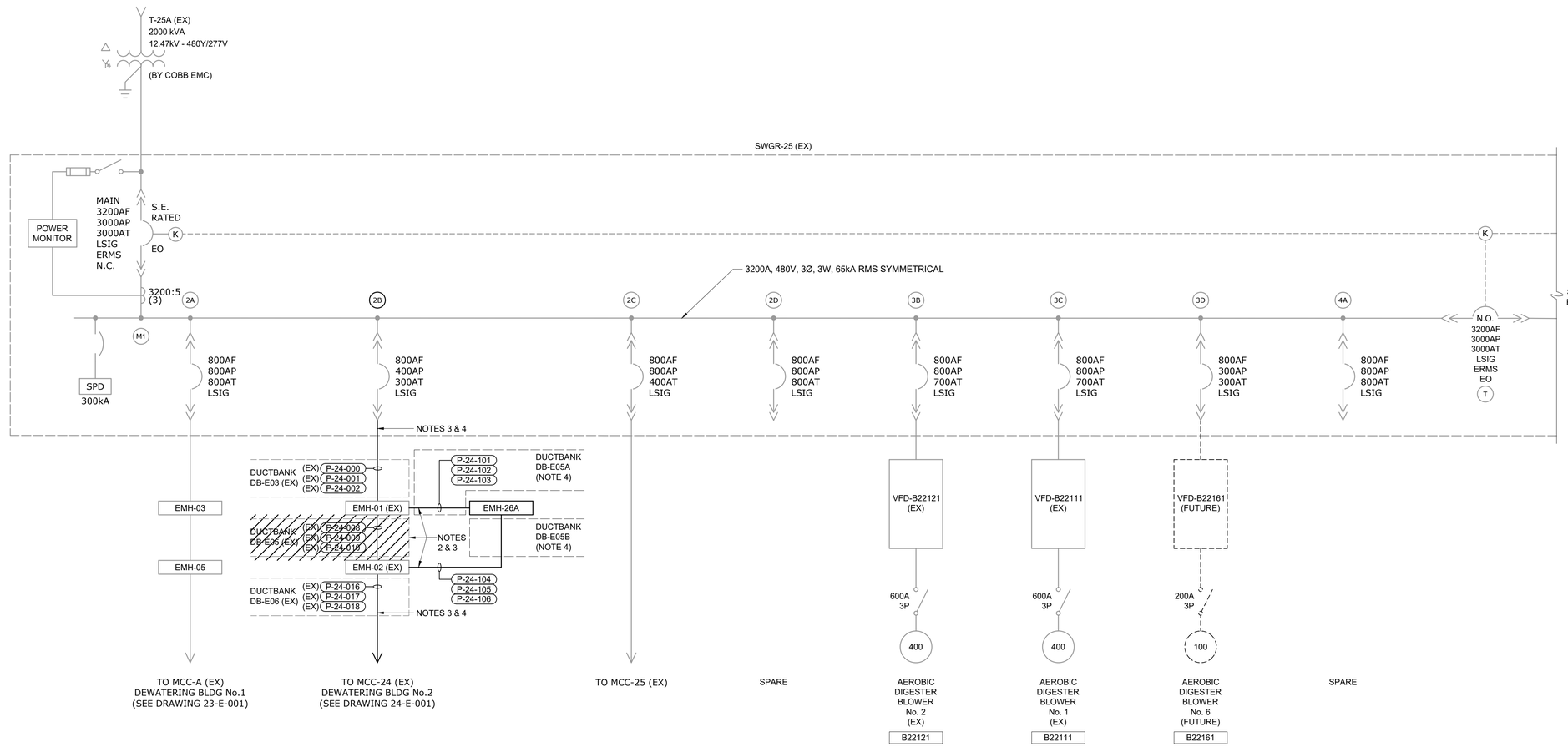
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

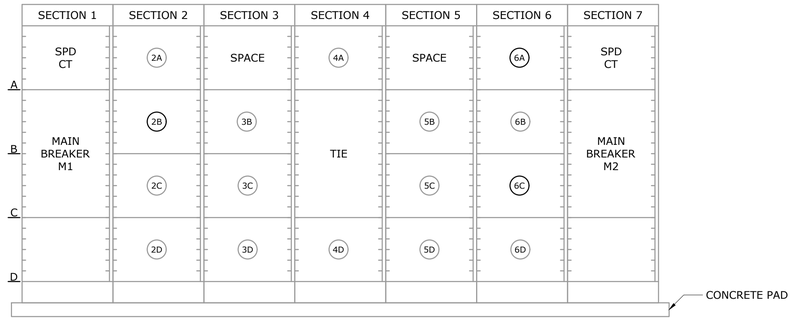
DEWATERING BUILDING No. 2
ELECTRICAL
SCHEDULES AND BLOCK DIAGRAMS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 24-E-003

File: C:\USERS\DELAM\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\24-E-003 Saved by DELAM Save date: 3/4/2026 7:25 AM
PLOT DATE: 3/4/2026 8:42 AM BY: DELAM



SWGR-25 SINGLE LINE DIAGRAM (MODIFIED)



SWGR-25 ELEVATION (MODIFIED)

NTS

NOTES:

1. EXISTING SWITCHGEAR IS SQUARE D, MODEL POWER-ZONE 4, F.O. #43892571-002.
2. REROUTE EXISTING DUCTBANK DB-E05 WITH POWER FEEDS CONDUCTORS FOR DEWATERING BUILDING No.2 AS SHOWN ON THE SITE PLANS AND THIS SINGLE LINE DIAGRAM.
3. REMOVE EXISTING 350KCMIL POWER FEEDER CONDUCTORS TO DEWATERING BUILDING No.2 ROUTED THROUGH DB-E05, ONE SIDE AT A TIME. INSTALL NEW FEEDER CONDUCTORS, AS SHOWN, ROUTED VIA REPLACEMENT DUCTBANKS DB-E05A & DB-E-05B.
4. REFER TO CONDUIT AND WIRE SCHEDULES ON DRAWING 24-E-003 FOR CONDUIT AND CONDUCTOR REQUIREMENTS AND DRAWING 01-E-203 FOR DUCTBANK SCHEDULES.
5. COORDINATE WORK WITH THE CONSTRUCTION SEQUENCING CONSTRAINTS IN SECTION 01 14 00.

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

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PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	V. KANCHEVA
DRAWN BY:	D. ELAM
CHECKED BY:	N. MEYER

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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

SOLIDS ELECTRICAL BUILDING
ELECTRICAL
SWGR-25 SINGLE LINE DIAGRAM AND ELEVATION

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA NO.:	2022_007
DRAWING NUMBER:	25-E-001

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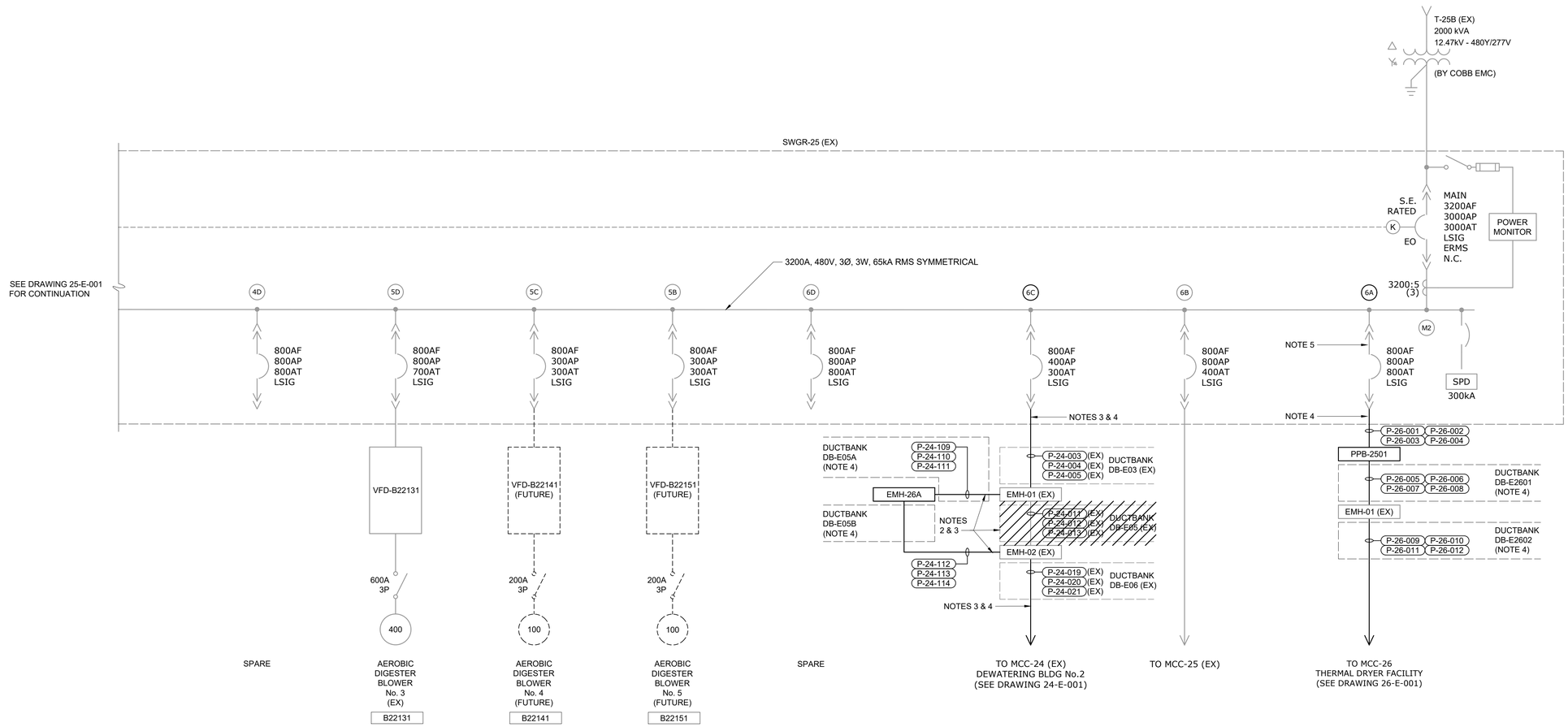

NOTES:

1. EXISTING SWITCHGEAR IS SQUARE D, MODEL POWER-ZONE 4, F.O. #43892571-002..
2. REROUTE EXISTING DUCTBANK DB-E05 WITH POWER FEEDS CONDUCTORS FOR DEWATERING BUILDING No.2 AS SHOWN ON THE SITE PLANS AND THIS SINGLE LINE DIAGRAM.
3. REMOVE EXISTING 350KCMIL POWER FEEDER CONDUCTORS TO DEWATERING BUILDING No.2 ROUTED THROUGH DB-E05, ONE SIDE AT A TIME. INSTALL NEW FEEDER CONDUCTORS, AS SHOWN, ROUTED VIA REPLACEMENT DUCTBANKS DB-E05A & DB-E-05B.
4. REFER TO CONDUIT AND WIRE SCHEDULES ON DRAWINGS 24-E-003 AND 26-3-030 FOR CONDUIT AND CONDUCTOR REQUIREMENTS, AND DRAWING 01-E-203 FOR DUCTBANK SCHEDULES.
5. UTILIZE EXISTING SPARE CIRCUIT BREAKER IN SWGR-25 FOR THE POWER FEEDER TO THE THERMAL DRYER FACILITY.
6. COORDINATE WORK WITH THE CONSTRUCTION SEQUENCING CONSTRAINTS IN SECTION 01 14 00.

SWGR-25 SINGLE LINE DIAGRAM (MODIFIED) - CONTINUATION

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
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CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

SOLIDS ELECTRICAL BUILDING
ELECTRICAL
SWGR-25 SINGLE LINE DIAGRAM

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 25-E-002

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208/120V, 3P, 4W

22kA RMS SYMMETRICAL

LP-25B (EX)
MAIN BREAKER
100A, 3P

TYPE: NEMA 1
MOUNT: SURFACE

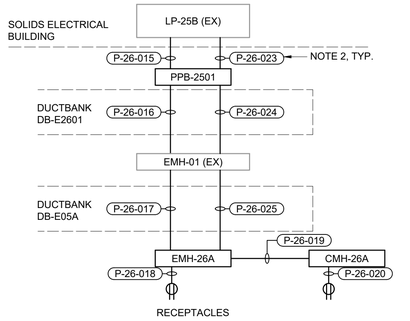
MODS	DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	CKT No.	VOLT-AMPERES A	VOLT-AMPERES B	VOLT-AMPERES C	VOLT-AMPERES A	VOLT-AMPERES B	VOLT-AMPERES C	CKT No.	POLE	TRIP	CONDUIT & WIRE	DESCRIPTION	MODS
-	ELEC ROOM LIGHTS	(EX)	20	1	1	632			720			2	1	20	(EX)	BLOWER FACILITY REC	-
-	EXTERIOR LIGHTS	(EX)	20	1	3		418			665		4	1	20	(EX)	AEROBIC DIG. No.1 LTG	-
-	ELEC ROOM RECEPTACLES	(EX)	20	1	5			1,440			665	6	1	20	(EX)	AEROBIC DIG. No.1 LTG	-
-	LCP-25 QUAD RECEPTACLE	(EX)	20	1	7	720			665			8	1	20	(EX)	AEROBIC DIG. No.1 LTG	-
-	EXTERIOR RECEPTACLES	(EX)	20	1	9		720			626		10	1	20	(EX)	SLUDGE PUMPS.1-4 LTG & REC	-
-	ROOF RECEPTACLE	(EX)	20	1	11			180			665	12	1	20	(EX)	AEROBIC DIG. No.2 LTG	-
-	SPARE	-	20	1	13	-			665			14	1	20	(EX)	AEROBIC DIG. No.2 LTG	-
-	SPARE	-	20	1	15		-			665		16	1	20	(EX)	AEROBIC DIG. No.2 LTG	-
-	SPARE	-	20	1	17			-			626	18	1	20	(EX)	SLUDGE PUMPS.5-8 LTG & REC	-
-	SPARE	-	20	1	19	-			540			20	1	20	(EX)	AEROBIC DIG. No.1 REC	-
-	SPARE	-	20	1	21		-			720		22	1	20	(EX)	AEROBIC DIG. No.1 REC	-
-	SPARE	-	20	1	23			-			540	24	1	20	(EX)	AEROBIC DIG. No.2 REC	-
-	SPARE	-	20	1	25	-			720			26	1	20	(EX)	AEROBIC DIG. No.2 REC	-
-	SPARE	-	20	1	27		-			180		28	1	20	(EX)	METER VAULT RECEPTACLE	-
-	SPARE	-	20	1	29			-			-	30	1	20	-	SPARE	-
-	SPARE	-	20	1	31	-			-			32	1	20	-	SPARE	-
-	SPARE	-	20	1	33		-			-		34	1	20	-	SPARE	-
-	SPARE	-	20	1	35			-			-	36	1	20	-	SPARE	-
-	SPARE	-	20	1	37	-			-			38	1	20	-	SPARE	-
NOTE 3 → -	EMH-26A SUMP PUMP REC.	NOTE 4	20	1	39		865			-		40	1	20	-	SPARE	-
NOTE 3 → -	CMH-26A SUMP PUMP REC.	NOTE 4	20	1	41			865			-	42	1	20	-	SPARE	-

TOTAL	1,352	2,003	2,485
	PHASE TOTAL (VA)		
	4,662	4,859	4,981
	PHASE TOTAL (A)		
	39	40	42

3,310	2,856	2,496	TOTAL
TOTAL LOAD (VA)			
14,502			
TOTAL LOAD (A)			
40			

MODIFICATION (MODS) LEGEND:
GFCI - GROUND FAULT CIRCUIT INTERRUPTER (5mA)
EPD - EQUIPMENT PROTECTION DEVICE (30mA GFCI)
LOD - LOCK-ON DEVICE
LFD - LOCK-OFF DEVICE
ETU - ELECTRONIC TRIP UNIT

NOTES/ACCESSORIES:
100kA SPD



EMH/CMH-26A SUMP PUMP RECEPTACLES
POWER BLOCK DIAGRAM

NOTES:

1. REMOVE TEMPORARY FIBER OPTIC CABLE UPON INSTALLATION OF PERMANENT CABLE AS SHOWN ON DRAWING 01-E-202.
2. EXISTING PANELBOARD LP-25B IS SQUARE-D NQ SERIES, 280/120V, 100A.
3. UTILIZE EXISTING SPARE CIRCUIT BREAKERS FOR THE NEW CIRCUITS.
4. SEE POWER BLOCK DIAGRAM ON THIS SHEET AND CONDUIT AND WIRE SCHEDULE ON DRAWING 26-E-030 FOR CONDUIT AND CONDUCTOR SIZES.

CONDUIT No.	SIZE	FROM	TO	CONDUCTORS	REMARKS
I-25-000	2" (EX)	LCP-25 (EXISTING)	CMH-01 (EXISTING)	FO CABLE, BY DIV. 40	FROM LCP-25 TO LCP-26
I-25-001	2" (EX)	LCP-25 (EXISTING)	CMH-01 (EXISTING)	TEMPORARY FO CABLE, BY DIV. 40	FROM LCP-25 TO LCP-24 (NOTE 1)
I-25-002					
I-25-003	2" (EX)	CMH-01 (EXISTING)	CMH-02 (EXISTING)	FO CABLE (EX)	FROM LCP-25 TO LCP-24
I-25-004	2" (EX)	CMH-01 (EXISTING)	CMH-02 (EXISTING)	EMPTY W/ PULLSTRING	SPARE
I-25-005					
I-25-006	2" (EX)	CMH-02 (EXISTING)	LCP-24 (EXISTING)	FO CABLE, BY DIV. 40	FROM LCP-26 TO LCP-24
I-25-007	2" (EX)	CMH-02 (EXISTING)	LCP-24 (EXISTING)	TEMPORARY FO CABLE, BY DIV. 40	FROM LCP-25 TO LCP-24 (NOTE 1)
I-25-008					
I-25-009					
I-25-017	2"	CMH-01 (EXISTING)	CMH-26A	FO CABLE, BY DIV. 40	FROM LCP-26 TO LCP-24
I-25-018	2"	CMH-01 (EXISTING)	CMH-26A	TEMPORARY FO CABLE, BY DIV. 40	FROM LCP-25 TO LCP-24 (NOTE 1)
I-25-019					
I-25-020	2"	CMH-26A	CMH-02 (EXISTING)	FO CABLE, BY DIV. 40	FROM LCP-26 TO LCP-24
I-25-021	2"	CMH-26A	CMH-02 (EXISTING)	TEMPORARY FO CABLE, BY DIV. 40	FROM LCP-25 TO LCP-24 (NOTE 1)
I-25-022					
I-25-023	2"	CMH-01 (EXISTING)	LCP-26	FO CABLE, BY DIV. 40	FROM LCP-25 TO LCP-26
I-25-024	2"	CMH-01 (EXISTING)	LCP-26	EMPTY W/ PULLSTRING	SPARE
I-25-025					

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY VESSELA KANCHEVA, P.E. No. 35253 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

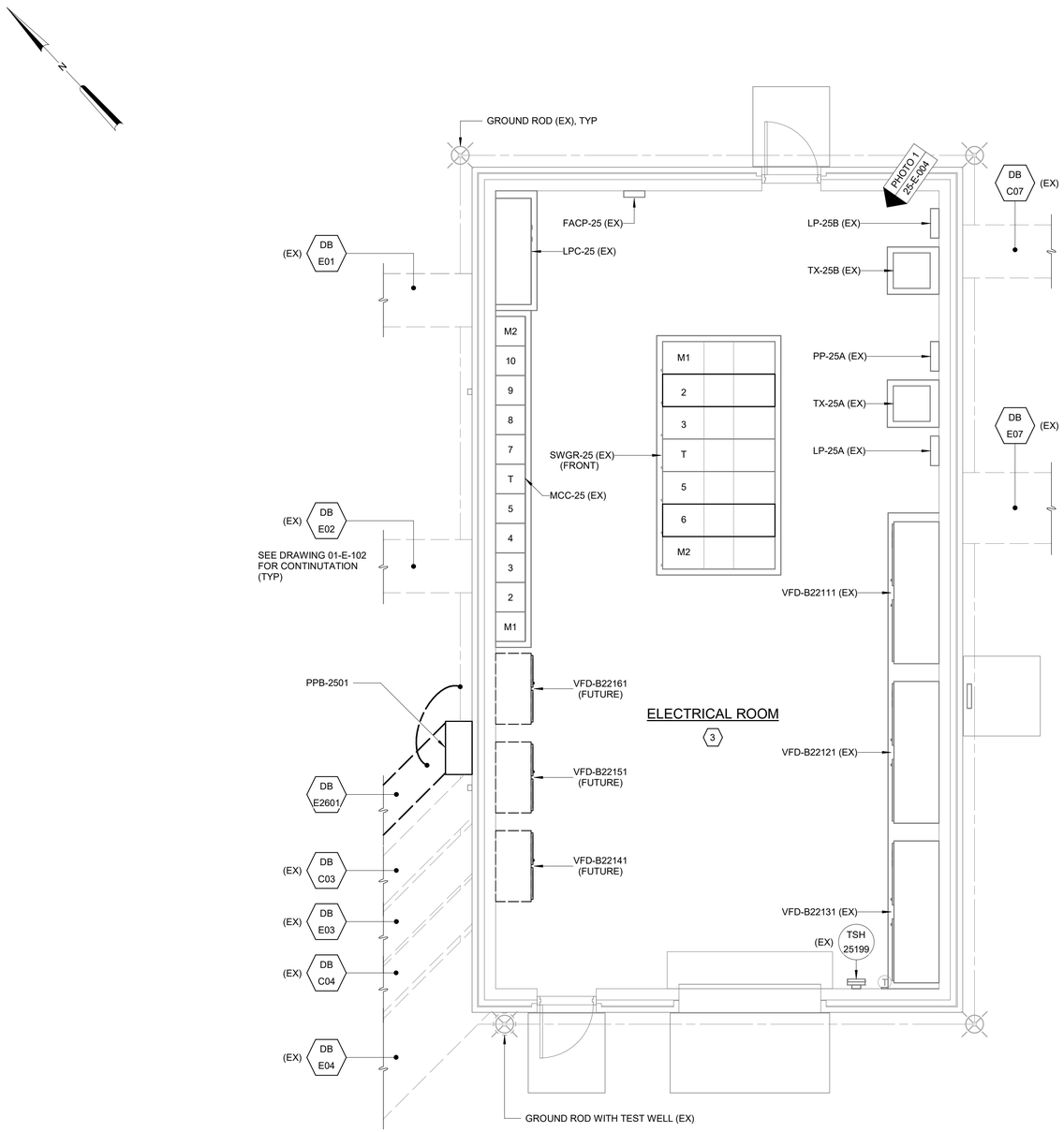
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

SOLIDS ELECTRICAL BUILDING
ELECTRICAL
LP-25 PANELBOARD SCHEDULE, POWER BLOCK DIAGRAM, AND CONDUIT AND WIRE SCHEDULE

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 25-E-003

File: C:\USERS\DELAM\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\25-E-003 Saved by DELAM Save date: 3/4/2026 7:25 AM
PLOT DATE: 3/4/2026 8:42 AM BY: DELAM



PLAN
1/4" = 1'-0"

PHOTO 1
NO SCALE

GROUNDING NOTES:

A. CONTRACTOR TO FIELD LOCATE EXISTING GROUNDING RING.

B. GROUND CONDUCTORS SHALL BE #4/0 BARE COPPER WIRE 30" MINIMUM BELOW FINISHED GRADE. ALL GROUND CONDUCTORS SHALL BE BARE COPPER WIRE.

C. EACH DUCT BANK GROUND CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE GROUND RING CONDUCTOR.

AREA LEGEND:

1. INDOOR WET PROCESS AREA
2. INDOOR DRY PROCESS AREA
3. INDOOR DRY NON-PROCESS AREA
4. TYPE 1 CHEMICAL STORAGE/TRANSFER AREA
5. TYPE 2 CHEMICAL STORAGE/TRANSFER AREA

1/4" = 1'-0" 1 0 1 2 3 7'

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

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PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: J. JONES
CHECKED BY: N. MEYER

CONFORMED DRAWING

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HAZEN AND SAWYER
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GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

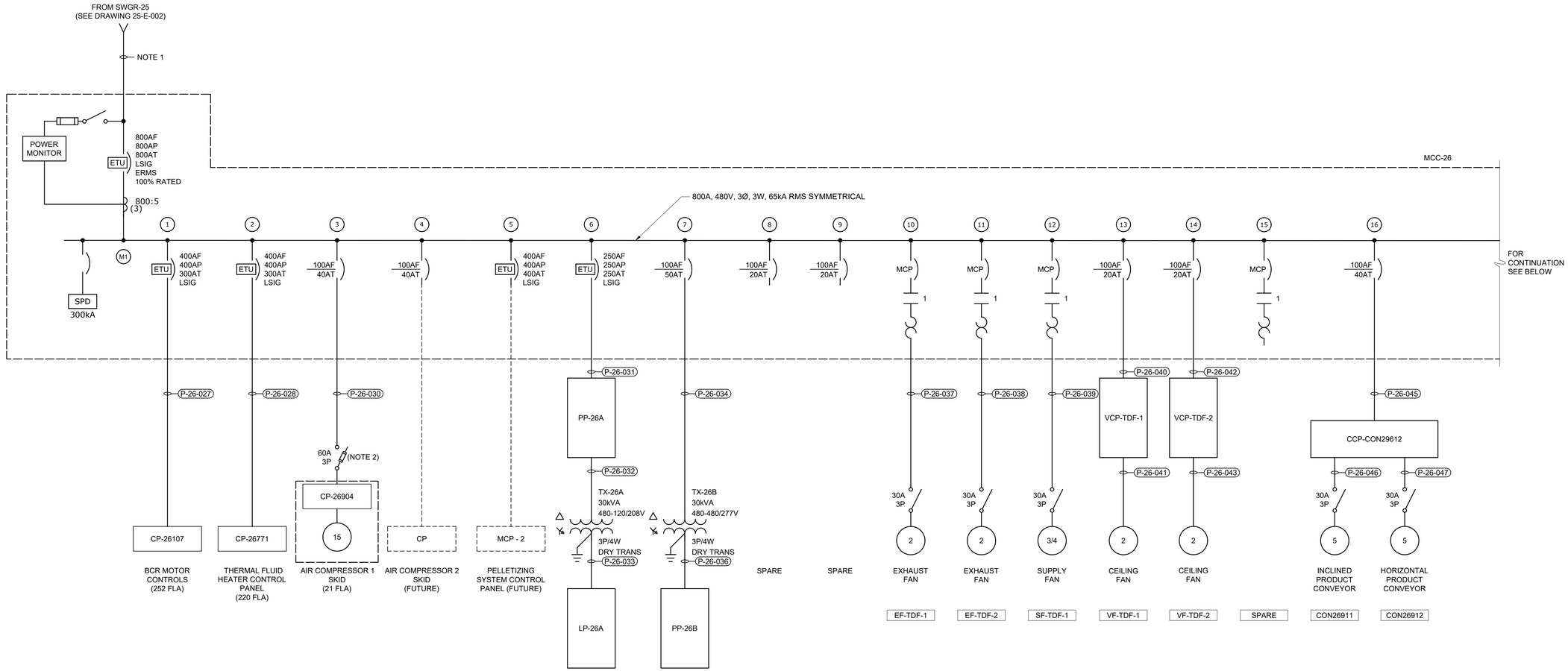
SOLIDS ELECTRICAL BUILDING
ELECTRICAL
PLAN

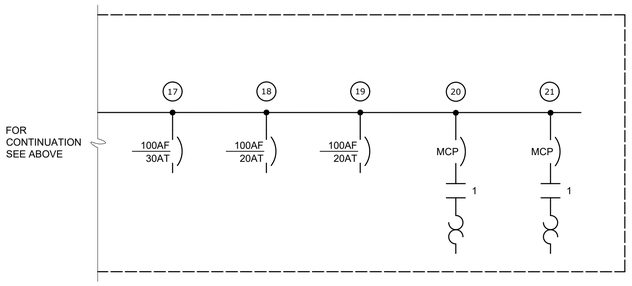
DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 25-E-004

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-25-SEB-E.rvt
3/4/2026 7:53:39 AM

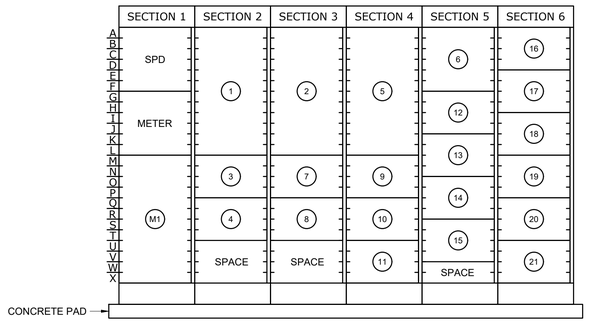
NOTES:

1. SEE SWGR-25 SINGLE LINE DIAGRAM ON 25-E-002 FOR CONDUIT AND CONDUCTOR REQUIREMENTS.
2. PROVIDE DUAL-ELEMENT TIME-DELAY CURRENT-LIMITING FUSES SIZE PER EQUIPMENT MANUFACTURER'S RECOMMENDATION.
3. SEE DEWATERED CAKE FEED CONVEYORS POWER BLOCK DIAGRAMS ON DRAWING 26-E-024 FOR CONDUIT AND CONDUCTOR REQUIREMENTS.





MCC-26 SINGLE LINE DIAGRAM



MCC-26 ELEVATION
NTS

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0, 1/2", 1")

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	V. KANCHEVA
DRAWN BY:	D. ELAM
CHECKED BY:	N. MEYER

CONFORMED DRAWING

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GBPE LIC #: PEF003685 EXP: 6/30/2026

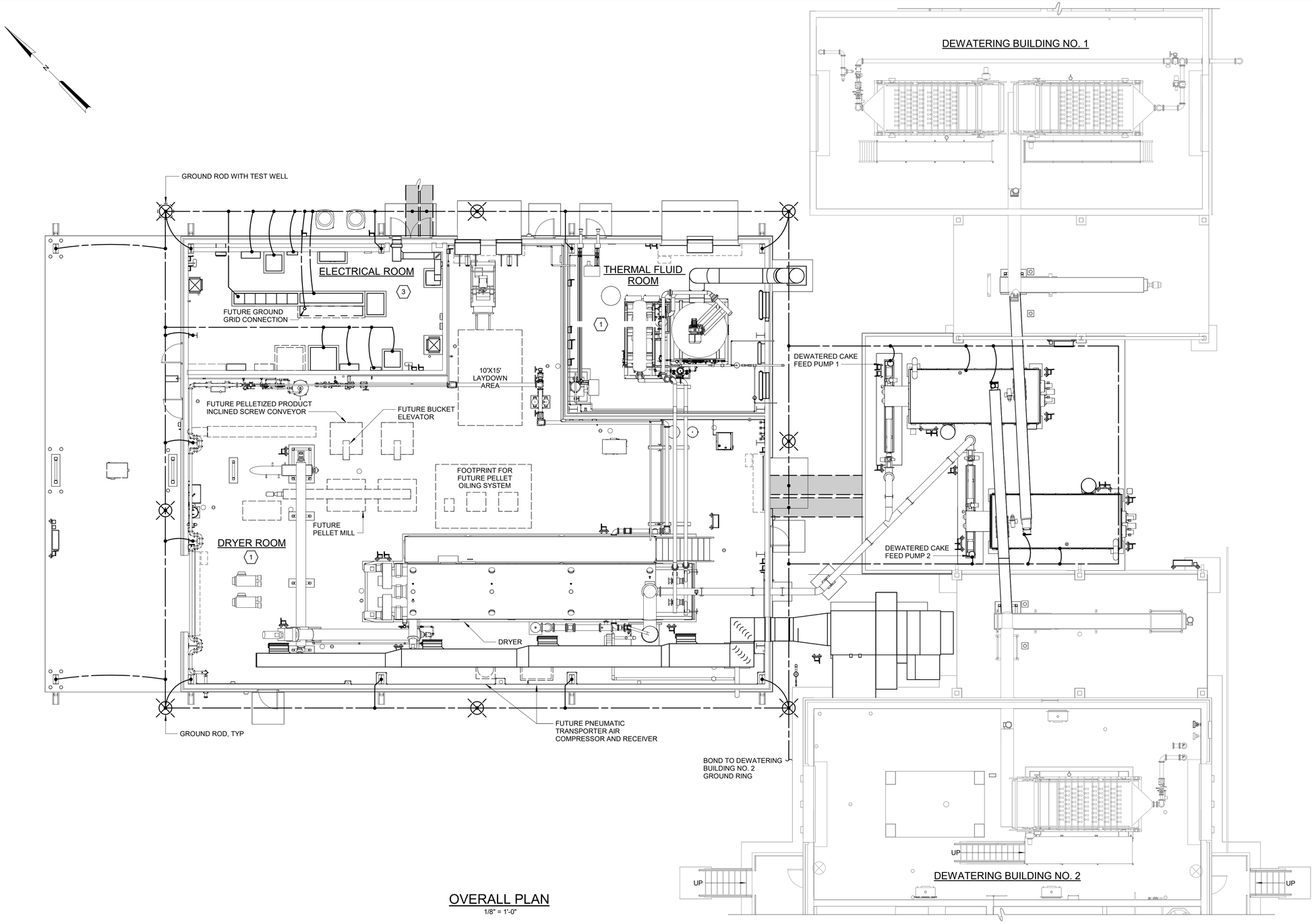
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
ELECTRICAL
MCC-26 SINGLE LINE DIAGRAM AND ELEVATION

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA NO.:	2022_007
DRAWING NUMBER:	26-E-001

File: C:\USERS\DELAM\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\26-E-001 Saved by DELAM Save date: 3/4/2026 7:25 AM
PLOT DATE: 3/4/2026 8:42 AM BY: DELAM



OVERALL PLAN

1/8" = 1'-0"

NOTES:

1. SEE AREA CLASSIFICATION INFORMATION ON DRAWING 26-E-004. ALL EQUIPMENT, ELECTRICAL MATERIALS, AND WIRING METHODS IN THE CLASSIFIED AREA SHALL BE IN ACCORDANCE WITH NEC.
2. THE FOLLOWING NOTES APPLY TO ALL DRAWINGS SHOWING DRYER EQUIPMENT:
   a. THE DRYER IS FURNISHED AS A PACKAGED SYSTEM, INCLUDING INSTRUMENTATION AND ASSOCIATED CONTROLS COMPONENTS. THE LOCATIONS OF DRYER SYSTEM COMPONENTS IS BASED UPON PRELIMINARY INFORMATION. CONTRACTOR SHALL REVIEW THE FINAL APPROVED BCR SHOP DRAWINGS, INCLUDING LOOP DIAGRAMS AND PLAN DRAWINGS, FOR ANY CHANGES PRIOR TO INSTALLING CONDUIT AND WIRE FOR THE SYSTEM.
   b. REFER TO BCR SHOP DRAWINGS FOR THE LOCATION OF VENDOR FURNISHED JUNCTION BOXES.
3. FURNISH AND INSTALL FIRE ALARM SYSTEM FOR THIS FACILITY PER SPECIFICATION SECTION 28 46 20.

GROUNDING NOTES:

A. REFER TO N.E.C. ARTICLE 250.52(A)(3) FOR BONDING OF GROUND RING TO STRUCTURAL FOUNDATION REBAR.

B. GROUND RING CONDUCTOR SHALL BE #4/0 BARE COPPER WIRE 30" MINIMUM BELOW FINISHED GRADE. ALL GROUND CONDUCTORS TO EQUIPMENT OR STRUCTURAL STEEL SHALL BE BARE COPPER WIRE.

C. EACH DUCT BANK GROUND CONDUCTOR CROSSING THE GROUND RING SHALL BE EXOTHERMICALLY WELDED TO THE GROUND RING CONDUCTOR.

D. ALL TRANSFORMERS, MOTOR CONTROL CENTERS, STARTER PANELS, AND PANELBOARDS SHALL BE BONDED TO THE GROUND RING CONDUCTOR.

E. FURNISH AND INSTALL LIGHTNING PROTECTION SYSTEM FOR THIS FACILITY PER SPECIFICATION 26 41 00.

F. FURNISH AND INSTALL 1" CONDUITS THROUGH CONCRETE PAD FOR LIGHTNING PROTECTION DOWN CONDUCTORS TO GROUND RING. ALL DOWN CONDUCTORS SHALL BE ROUTED DOWN INSIDE OF BUILDING.

G. COORDINATE GROUND SYSTEM INSTALLATION WITH INSTALLATION OF THE LIGHTNING PROTECTION SYSTEM.

AREA LEGEND:

1. INDOOR WET PROCESS AREA
2. INDOOR DRY PROCESS AREA
3. INDOOR DRY NON-PROCESS AREA
4. TYPE 1 CHEMICAL STORAGE/TRANSFER AREA
5. TYPE 2 CHEMICAL STORAGE/TRANSFER AREA

1/8" = 1'-0" 8 6 4 2 0 8'

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

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Hazen
HAZEN AND SAWYER
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ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

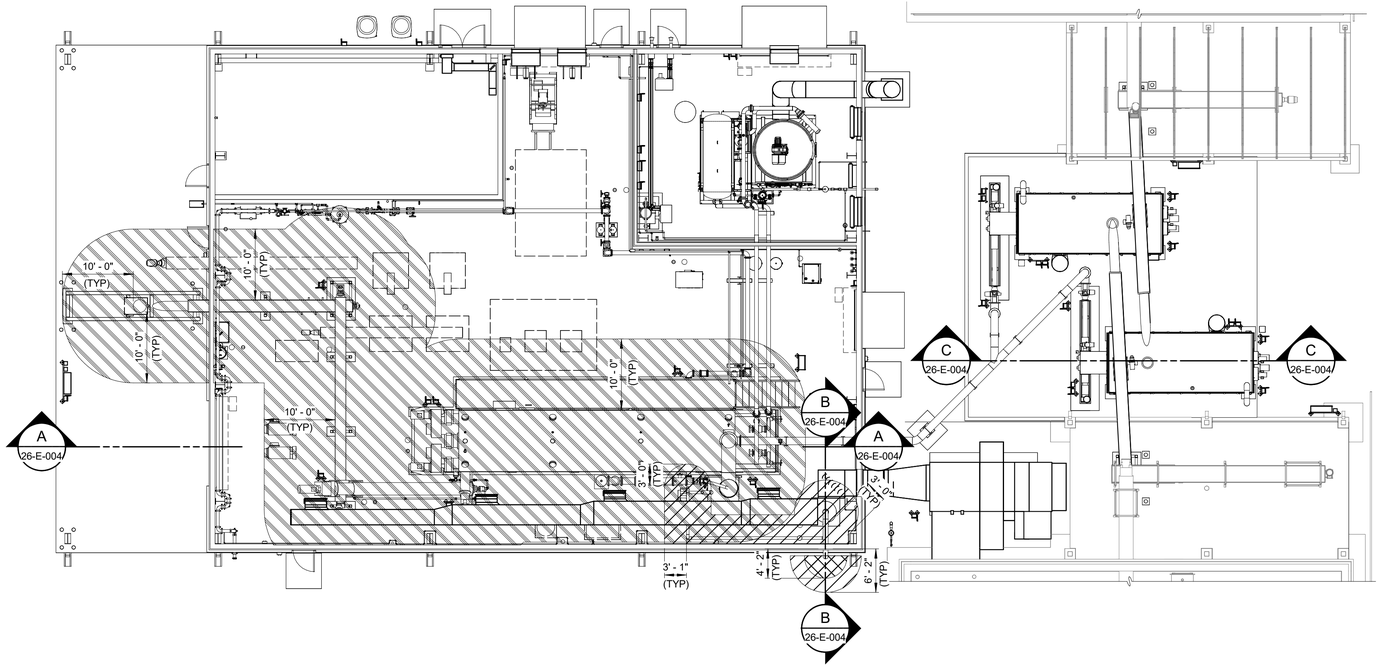
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
ELECTRICAL
OVERALL PLAN

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 26-E-003

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-E.rvt
3/4/2026 8:50:44 AM



HAZARDOUS AREA CLASSIFICATION PLAN

3/32" = 1'-0"

LEGEND:

- CLASS I, DIV 1
- CLASS I, DIV 2
- CLASS II, DIV 1
- CLASS II, DIV 2

HAZARDOUS AREAS:

THE FOLLOWING SPACES ARE CLASSIFIED IN ACCORDANCE WITH NFPA 820, 2024 EDITION. ALL MATERIALS, ELECTRICAL EQUIPMENT, AND INSTALLATION METHODS WITHIN CLASSIFIED AREAS SHALL BE IN ACCORDANCE WITH THE NEC.

CLASS I, DIVISION 1 AREAS:

1. ODOR CONTROL SYSTEM VENT
   - TABLE 6.2.2, ROW 26 & TABLE 4.2.2, ROW 18, LINE a; ANNEX A, FIGURE A.4.2(f): ENVELOPE 3-FEET AROUND VENTS FROM DIVISION 1 GAS

CLASS I, DIVISION 2 AREAS:

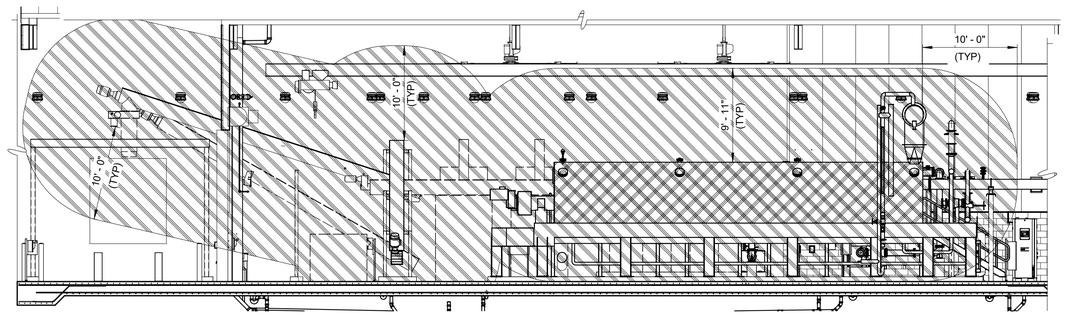
1. ODOR CONTROL SYSTEM VENT
   TABLE 6.2.2, ROW 26 & TABLE 4.2.2, ROW 18, LINE b; ANNEX A, FIGURE A.4.2(f): ENVELOPE 5-FEET AROUND VENTS FROM DIVISION 1 GAS
2. ODOR CONTROL SYSTEM
   TABLE 6.2.2, ROW 26 & TABLE 4.2.2, ROW 18, LINE c: ENVELOPE 3-FEET OF LEAKAGE SOURCES SUCH AS VENTS, FANS DAMPERS, FLEXIBLE CONNECTIONS, FLANGES, PRESSURISED UNWELDED DUCTWORK, AND ODOR-CONTROL VESSELS
3. DEWATERED CAKE FEED CONVEYORS AND HOPPERS WITH COVERS
   - TABLE 6.2.2(a), ROW 13, LINE b: ENTIRE ENCLOSED AREA BELOW THE COVER OF THE CONVEYOR TRANSPORTING DEWATERED SLUDGE AND THE INTERIOR OF THE DEWATERED CAKE FEED HOPPERS

CLASS II, DIVISION 1 AREAS:

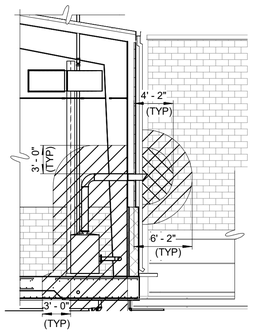
1. DRYER SYSTEM EQUIPMENT
   - TABLE 6.2.2(b), ROW 1, LINE b: AREAS WITHIN EQUIPMENT PROCESSING COMBUSTIBLE PARTICULATE SOLIDS.

CLASS II, DIVISION 2 AREAS:

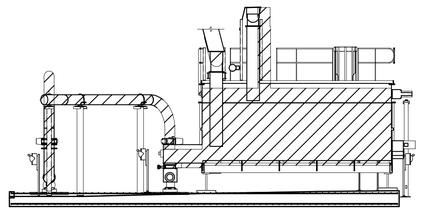
1. DRYER SYSTEM EQUIPMENT
   - TABLE 6.2.2(b), ROW 1, LINE c: AREAS WITHIN 10-FEET OF EQUIPMENT PROCESSING COMBUSTIBLE PARTICULATE SOLIDS.



SECTION A (26-E-004)
1/8" = 1'-0"



SECTION B (26-E-004)
1/8" = 1'-0"



SECTION C (26-E-004)
1/8" = 1'-0"

3/32" = 1'-0" 10 8 6 4 2 0 11'

1/8" = 1'-0" 8 6 4 2 0 8'

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	V. KANCHEVA
DRAWN BY:	D. ELAM
CHECKED BY:	N. MEYER

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0 1/2" 1")

CONFORMED DRAWING

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Hazen
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GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

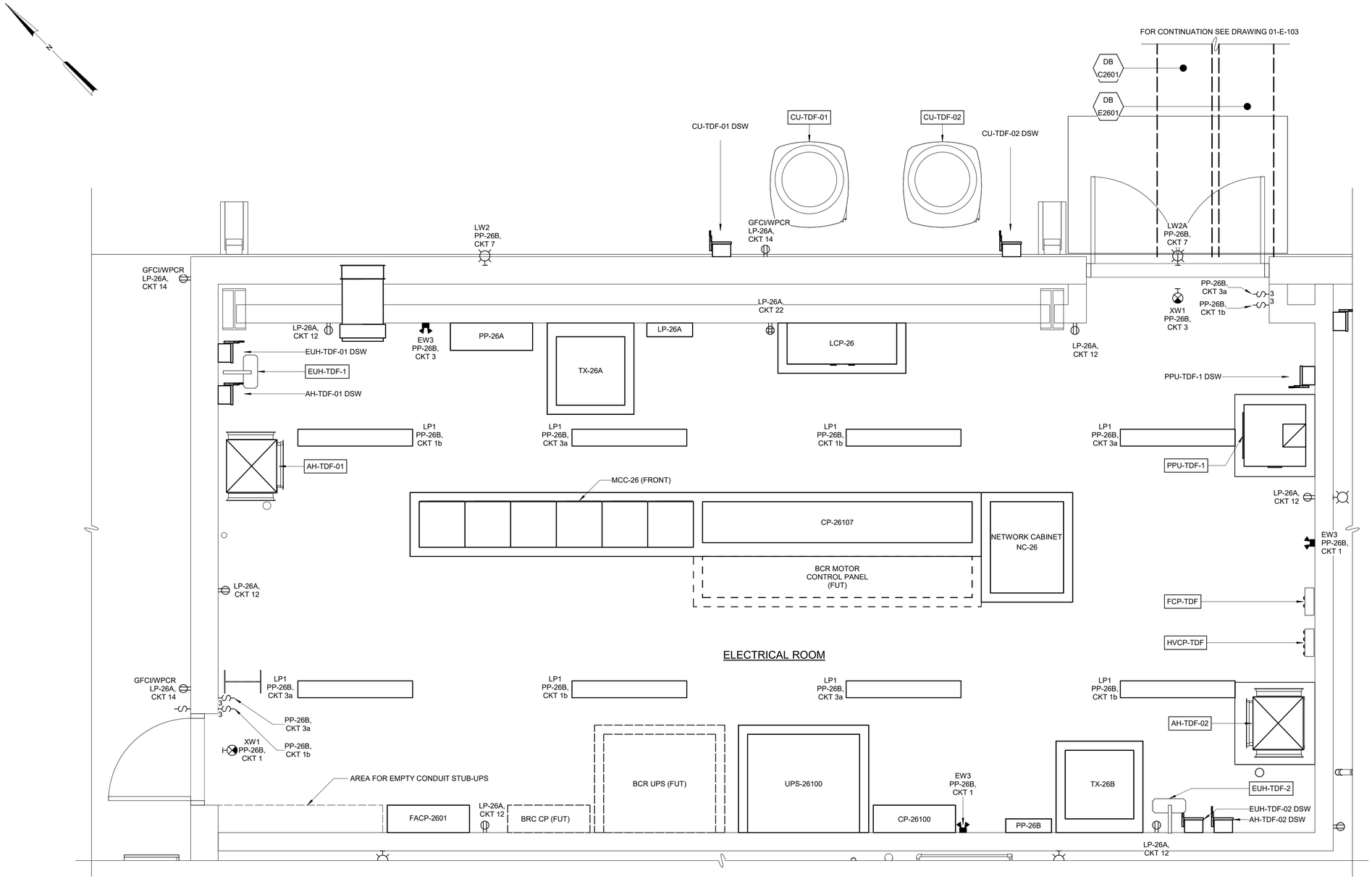
THERMAL DRYER FACILITY
ELECTRICAL
HAZARDOUS AREA CLASSIFICATION PLAN AND SECTIONS

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	26-E-004

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-E.rvt
3/4/2026 8:50:55 AM

NOTES:

1. MOUNT FIXTURE TYPES XW1 LW2, AND LW2A 6" ABOVE DOOR. ALIGN FIXTURES MOUNTED ON THE SAME SIDE OF THE BUILDING.
2. MOUNT FIXTURE TYPE EW3 9'-0" AFF.
3. MOUNT FIXTURE TYPE LP1 10'-0" AFF.



ELECTRICAL ROOM ENLARGED PLAN

1/2" = 1'-0"

1/2" = 1'-0" 12" 0 1 3'

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

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DESIGNED BY: V. KANCHEVA
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CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY VESSELA KANCHEVA, P.E. No. 35253 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

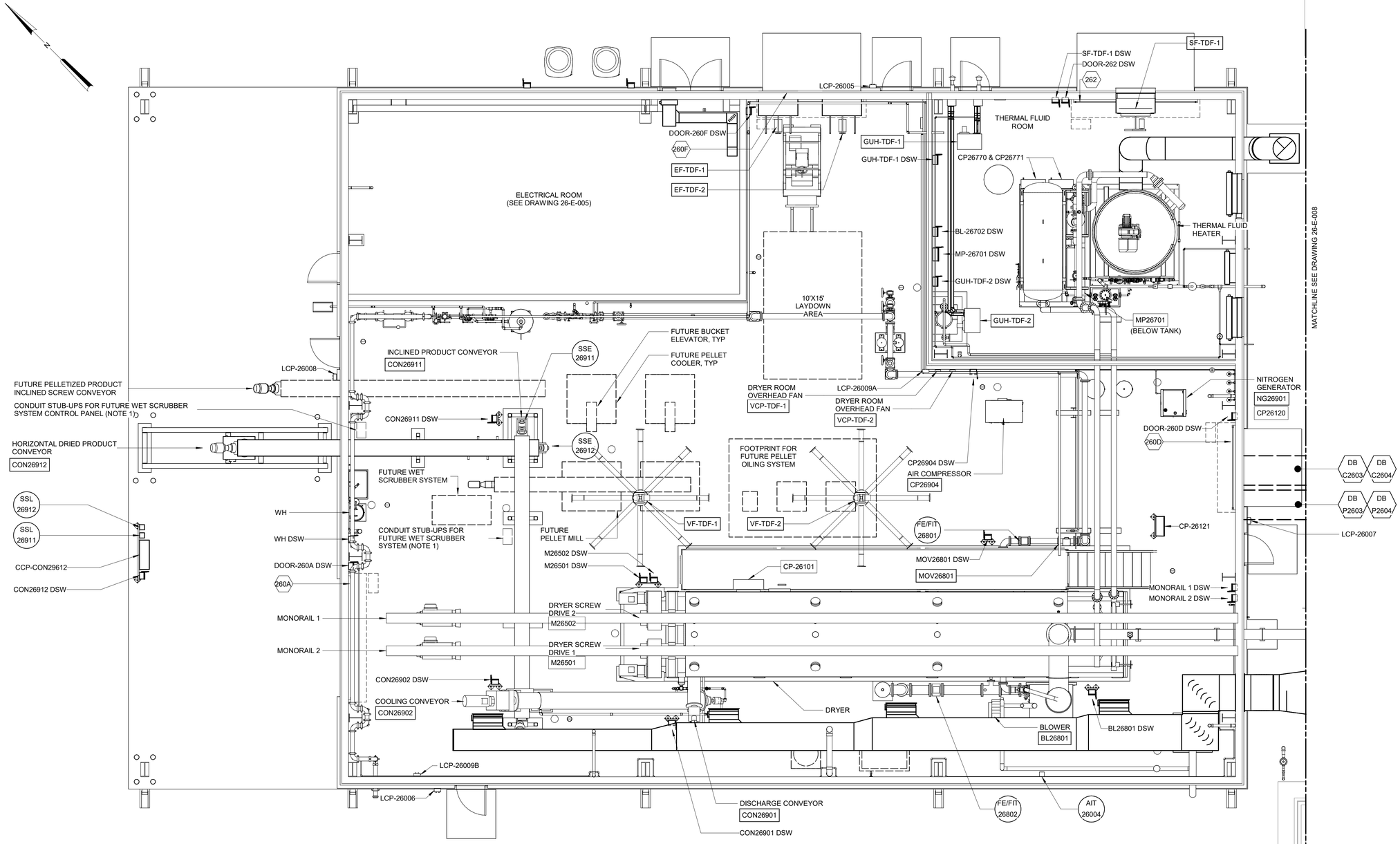
THERMAL DRYER FACILITY
ELECTRICAL
ELECTRICAL ROOM ENLARGED PLAN

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 26-E-005

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-E.rvt
3/4/2026 8:50:55 AM

NOTES:

1. SEE DRAWINGS 26-E-025 AND 26-E-029 FOR INFORMATION ABOUT NUMBER AND SIZE OF CONDUITS FOR FUTURE WET SCRUBBER SYSTEM.



DRYER ENLARGED POWER PLAN

3/16" = 1'-0"

3/16" = 1'-0" 6 4 2 0 5'

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	V. KANCHEVA
DRAWN BY:	D. ELAM
CHECKED BY:	N. MEYER

CONFORMED DRAWING

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CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

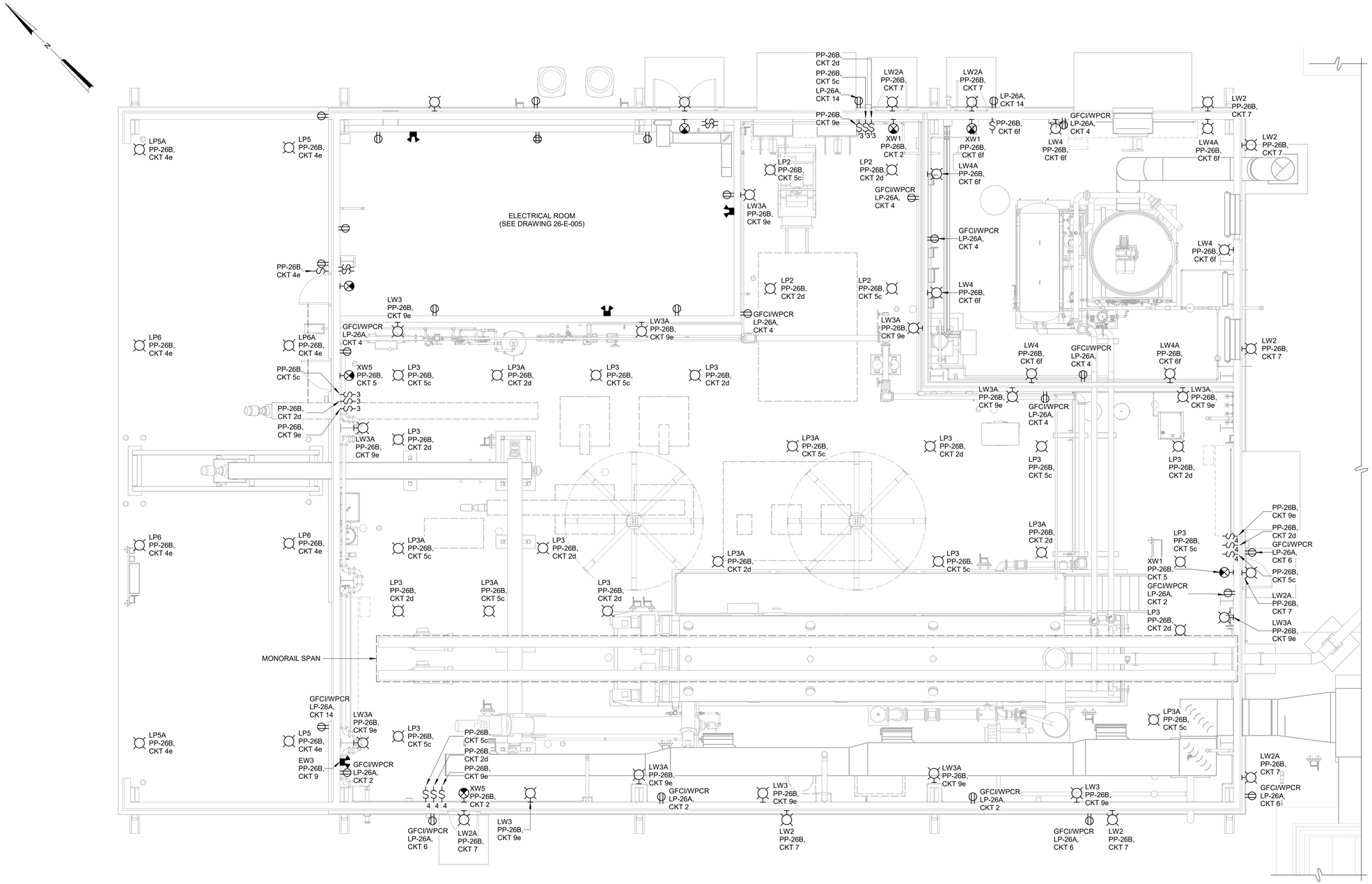
THERMAL DRYER FACILITY
ELECTRICAL
DRYER ENLARGED POWER PLAN

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	26-E-006

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-E.rvt
3/4/2026 8:51:00 AM

NOTES:

1. MOUNT FIXTURE TYPES XW1 AND XW5 6" ABOVE DOOR. ALIGN FIXTURES MOUNTED ON THE SAME SIDE OF THE BUILDING.
2. MOUNT FIXTURE TYPE LW2, LW2A, LW3, LW3A, AND LW4 10'-0" AFF.
3. MOUNT FIXTURE TYPE LP2, LP2B, LP2C, LP3, LP3A, LP4, AND LP4A 20'-0" AFF.



DRYER ENLARGED LIGHTING PLAN

3/16" = 1'-0"

3/16" = 1'-0" (6 4 2 0 5')

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0 1/2" 1")

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	V. KANCHEVA
DRAWN BY:	D. ELAM
CHECKED BY:	N. MEYER

CONFORMED DRAWING

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GBPE LIC #: PEF003685 EXP: 6/30/2026

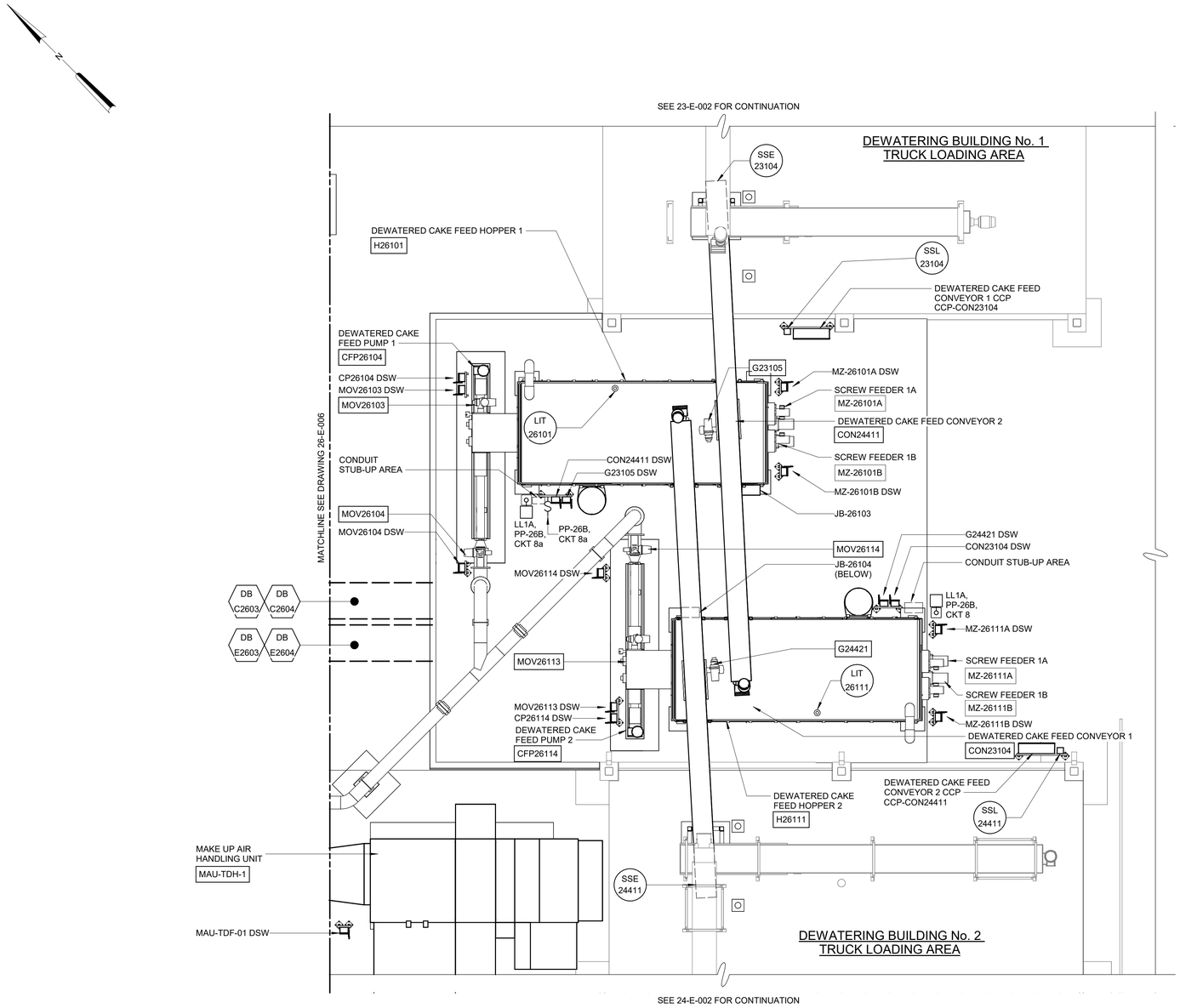
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
ELECTRICAL
DRYER ENLARGED LIGHTING PLAN

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA No.:	2022_007
DRAWING NUMBER:	26-E-007

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-E.rvt
3/4/2026 8:51:04 AM



DEWATERED CAKE HANDLING ENLARGED POWER PLAN

3/16" = 1'-0"

3/16" = 1'-0" 6 4 2 0 5'

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER
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CONFORMED DRAWING

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CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
ELECTRICAL
DEWATERED CAKE HANDLING ENLARGED PLAN

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 26-E-008

Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-26-TDF-E.rvt
3/4/2026 8:51:05 AM

NOTES:

1. SEE SINGLE LINE DIAGRAM ON DRAWING 26-E-001 FOR CONDUIT AND CONDUCTOR SIZES.
2. SEE POWER BLOCK DIAGRAMS ON DRAWING 26-E-025 FOR CONDUIT AND CONDUCTOR SIZES.

480V, 3P, 3W | PP-26A | TYPE: NEMA 1
225A BUS | MAIN BREAKER W/ETU (LSI) | MOUNT: SURFACE
65kA RMS SYMMETRICAL (MIN) | 225AF/225AP/225AT, 3P

MODS	DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	CKT No.	VOLT-AMPERES A	VOLT-AMPERES B	VOLT-AMPERES C	VOLT-AMPERES A	VOLT-AMPERES B	VOLT-AMPERES C	CKT No.	POLE	TRIP	CONDUIT & WIRE	DESCRIPTION	MODS
-	MONORAIL VCP-1	NOTE 2	30	3	1	2,400			850			2					
					3		2,400			850		4	3	20	NOTE 2	PPU-TDF-1	-
					5			2,400			850	6					
-	MONORAIL VCP-2	NOTE 2	30	3	7	2,400			1,700			8					
					9		2,400			1,700		10	3	20	NOTE 2	EUH-TDF-1	-
					11			2,400			1,700	12					
-	260F, 262 - ROLL UP DOORS	NOTE 2	30	3	13	1,510			1,700			14					
					15		1,510			1,700		16	3	20	NOTE 2	EUH-TDF-2	-
					17			1,510			1,700	18					
-	260A, 260D - ROLL UP DOORS	NOTE 2	30	3	19	1,510			5,000			20					
					21		1,510			5,000		22	3	30	NOTE 2	MAU-TDF-1	-
					23			1,510			5,000	24					
-	SPARE	-	20	3	25	-			-			26					
					27		-			-		28	3	20	-	SPARE	-
					29			-			-	30					
-	SPARE	-	20	3	31	-			-			32					
					33		-			-		34	3	20	-	SPARE	-
					35			-			-	36					
-	SPARE	-	20	3	37	-			10,470			38					
					39		-			10,345		40	3	50	NOTE 1	TRANSFORMER TX-26A (LP-26A)	-
					41			-			7,625	42					
			TOTAL			7,820	7,820	7,820	19,720	19,595	16,875	TOTAL					
						PHASE TOTAL (VA)			TOTAL LOAD (VA)								
						27,540	27,415	24,695	79,650								
						PHASE TOTAL (A)			TOTAL LOAD (A)								
						99	99	89	96								

MODIFICATION (MODS) LEGEND:
GFCI - GROUND FAULT CIRCUIT INTERRUPTER (5mA)
EPD - EQUIPMENT PROTECTION DEVICE (30mA GFCI)
LOD - LOCK-ON DEVICE
LFD - LOCK-OFF DEVICE
ETU - ELECTRONIC TRIP UNIT

NOTES/ACCESSORIES:
100kA SPD

208/120V, 3P, 4W | LP-26A | TYPE: NEMA 1
100A BUS | MAIN BREAKER | MOUNT: SURFACE
10kA RMS SYMMETRICAL (MIN) | 100AF/100AT, 3P

MODS	DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	CKT No.	VOLT-AMPERES A	VOLT-AMPERES B	VOLT-AMPERES C	VOLT-AMPERES A	VOLT-AMPERES B	VOLT-AMPERES C	CKT No.	POLE	TRIP	CONDUIT & WIRE	DESCRIPTION	MODS
-	VCP-HVAC-2601	L12	20	1	1	1,000			720			2	1	20	L8	RECP - PROCESS AREA	-
LOD	FACP-2601	L12	20	1	3		1,000			1,260		4	1	20	L8	RECP - PROCESS AREA	-
-	SPARE	-	20	1	5			-			720	6	1	20	L8	RECP - EXTERIOR	-
-	LCP-26	L12	20	1	7	1,500			-			8	1	20	-	SPARE	-
-	D26902 - AIR DRYER	NOTE 2	20	1	9		2,000			-		10	1	20	-	SPARE	-
-	LCP-26005 - GNG PANEL	L12	20	1	11			100			1,080	12	1	20	L12	RECP - ELECTRICAL ROOM	-
-	LCP-26006 - GNG PANEL	L12	20	1	13	100			900			14	1	20	L8	RECP - EXTERIOR	-
-	LCP-26007 - GNG PANEL	L12	20	1	15		100			450		16	1	20	NOTE 2	GUH-TDF-1 - NAT. GAS HEATER	-
-	LCP-26008 - GNG PANEL	L12	20	1	17			100			450	18	1	20	NOTE 2	GUH-TDF-2 - NAT. GAS HEATER	-
-	LCP-26009A&B - GNG BEACONS	L10	20	1	19	100			2,500			20	1	30	NOTE 2	WH - WATER HEATER	-
-	UPS-26100 - UPS SUPPLY	NOTE 2	40	2	21		3,000			360		22	1	20	-	QUAD RECP - ELECTRICAL ROOM	-
					23			3,000			1,475	24	2	20	NOTE 2	AH-TDF-2	-
-	AH-TDF-1	NOTE 2	20	2	25	1,475			1,475			26					-
					27		1,475			350		28					-
-	ACCU-TDF-1	NOTE 2	20	3	29			350			350	30	3	20	NOTE 2	ACCU-TDF-2	-
					31	350			350			32					-
					33		350			-		34	1	20	-	SPARE	-
-	SPARE	-	20	1	35						-	36	1	20	-	SPARE	-
-	SPARE	-	20	1	37				-			38	1	20	-	SPARE	-
-	SPARE	-	20	1	39					-		40	1	20	-	SPARE	-
-	SPARE	-	20	1	41			-			-	42	1	20	-	SPARE	-
			TOTAL			4,525	7,925	3,550	5,945	2,420	4,075	TOTAL					
						PHASE TOTAL (VA)			TOTAL LOAD (VA)								
						10,470	10,345	7,625	28,440								
						PHASE TOTAL (A)			TOTAL LOAD (A)								
						87	86	64	79								

MODIFICATION (MODS) LEGEND:
GFCI - GROUND FAULT CIRCUIT INTERRUPTER (5mA)
EPD - EQUIPMENT PROTECTION DEVICE (30mA GFCI)
LOD - LOCK-ON DEVICE
LFD - LOCK-OFF DEVICE
ETU - ELECTRONIC TRIP UNIT

NOTES/ACCESSORIES:
100kA SPD

CIRCUITS (WHERE NOTED ABOVE):
L12: 2#12, #12GND, 3/4"C
L10: 2#10, #10GND, 3/4"C
L8: 2#10, #10GND, 3/4"C

480/277V, 3P, 4W | PP-26B | TYPE: NEMA 1
100A BUS | MAIN BREAKER | MOUNT: SURFACE
18kA RMS SYMMETRICAL (MIN) | 125AF/100AP/50AT, 3P

MODS	DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	CKT No.	VOLT-AMPERES A	VOLT-AMPERES B	VOLT-AMPERES C	VOLT-AMPERES A	VOLT-AMPERES B	VOLT-AMPERES C	CKT No.	POLE	TRIP	CONDUIT & WIRE	DESCRIPTION	MODS
-	LTG - ELECTRICAL ROOM	L12	20	1	1	360			1,100			2	1	20	L12	LTG - DRYER ROOM	-
-	LTG - ELECTRICAL ROOM	L12	20	1	3		360			800		4	1	20	L12	LTG - TRUCK LOADING	-
-	LTG - DRYER ROOM	L12	20	1	5			1,400			1,000	6	1	20	L12	LTG - DRYER ROOM	-
-	LTG - EXTERIOR	L12	20	1	7	1,350			200			8	1	20	NOTE 2	LTG - DEWAT. CAKE HANDLNG	-
-	SPARE	-	20	1	9		-			-		10	1	20	-	SPARE	-
-	SPARE	-	20	1	11			-			-	12	1	20	-	SPARE	-
-	SPARE	-	20	1	13	-			-			14	1	20	-	SPARE	-
-	SPARE	-	20	1	15		-			-		16	1	20	-	SPARE	-
-	SPARE	-	20	1	17			-			-	18	1	20	-	SPARE	-
-	SPACE	-	-	1	19	-			-			20	1	-	-	SPACE	-
-	SPACE	-	-	1	21		-			-		22	1	-	-	SPACE	-
-	SPACE	-	-	1	23			-			-	24	1	-	-	SPACE	-
			TOTAL			1,710	360	1,400	1,300	800	1,000	TOTAL					
						PHASE TOTAL (VA)			TOTAL LOAD (VA)								
						3,010	1,160	2,400	6,570								
						PHASE TOTAL (A)			TOTAL LOAD (A)								
						11	4	9	8								

MODIFICATION (MODS) LEGEND:
GFCI - GROUND FAULT CIRCUIT INTERRUPTER (5mA)
EPD - EQUIPMENT PROTECTION DEVICE (30mA GFCI)
LOD - LOCK-ON DEVICE
LFD - LOCK-OFF DEVICE
ETU - ELECTRONIC TRIP UNIT

NOTES/ACCESSORIES:
100kA SPD
L12: 3/4"C [2#12, #12GND]

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER
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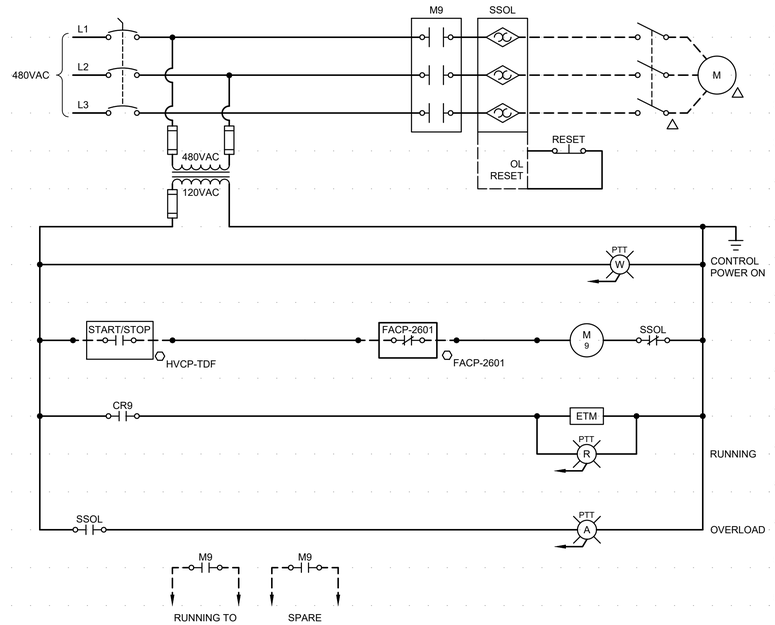
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY ELECTRICAL PANELBOARD SCHEDULES

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 26-E-023

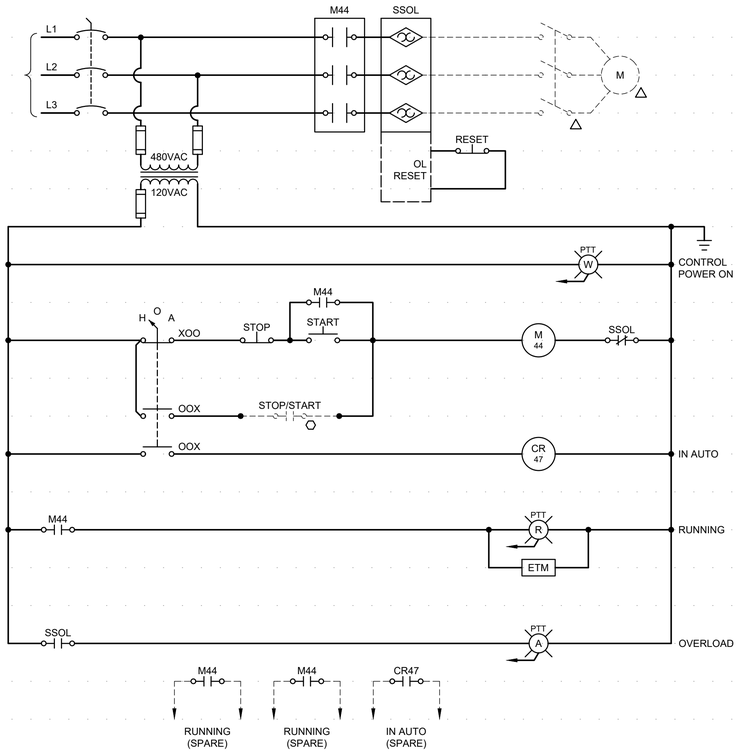
File: C:\USERS\DELAM\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\26-E-023 Saved by DELAM Save date: 3/4/2026 7:26 AM
PLOT DATE: 3/4/2026 8:42 AM BY: DELAM



NOTES:

1. CONTROL VOLTAGE 120VAC FOR DAMPER SHALL BE PROVIDED BY HVCP-TDF PANEL. DAMPER (OPEN/CLOSE) POSITION SHALL BE MONITORED BY HVCP-TDF. HVCP PANEL OPENS AND CLOSES THE DAMPER AND PROVIDES RUN COMMAND FOR THE FAN AS REQUIRED. REFER TO SPECIFICATION 23 09 02 FOR ADDITIONAL INFORMATION. LOW FLOW SWITCH AT THE FAN SHALL BE MONITORED BY HVCP-TDF PANEL.

EXHAUST AND SUPPLY FAN
ELEMENTARY CONTROL SCHEMATIC
EF-TDF-X
EF-TDF-1
EF-TDF-2
SF-TDF-1



SPARE MOTOR STARTER
ELEMENTARY CONTROL SCHEMATIC

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

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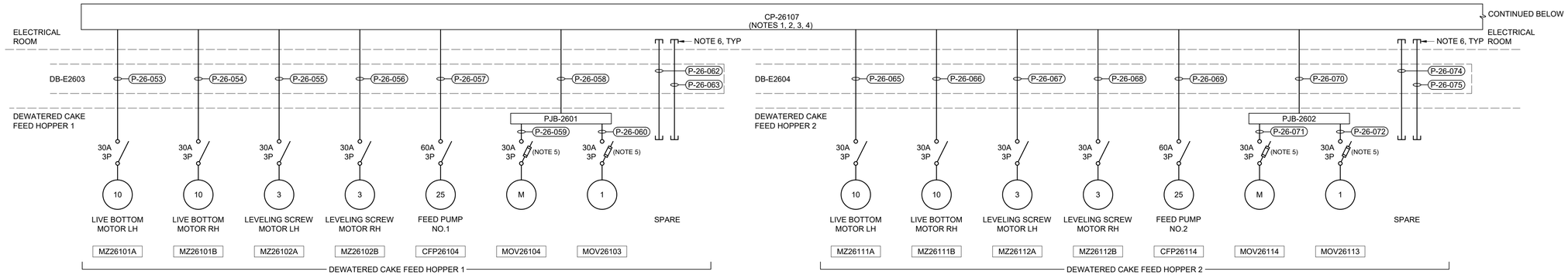
FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY ELECTRICAL SCHEMATIC DIAGRAMS

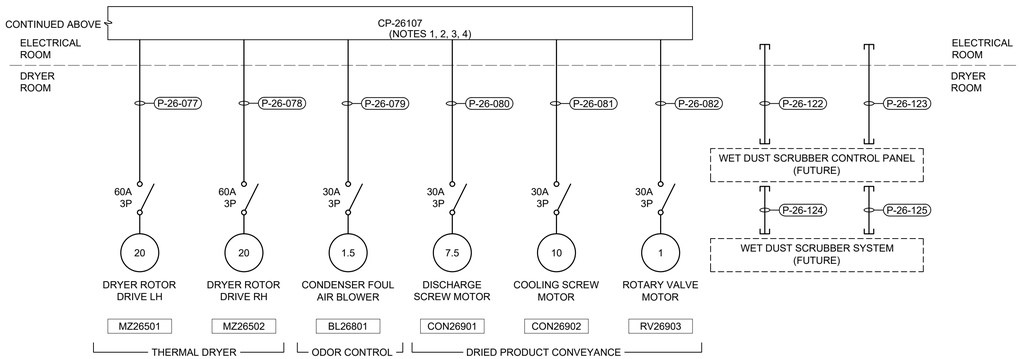
DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 26-E-024

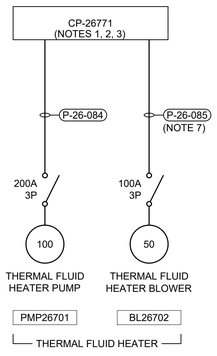
File: C:\USERS\DELAM\DOCUMENTS\ACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\26-E-024 Saved by DELAM Save date: 3/4/2026 7:26 AM
PLOT DATE: 3/4/2026 8:42 AM BY: DELAM

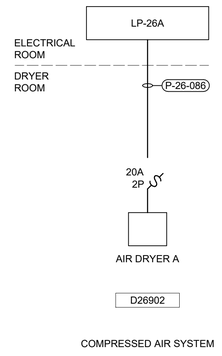


NOTES:

1. CONTROL PANEL TO BE FURNISHED BY THE DRYER SYSTEM MANUFACTURER, BCR, AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL REFERENCE BCR'S SHOP DRAWINGS FOR MORE SPECIFIC INFORMATION.
2. THE BLOCK DIAGRAMS ARE BASED ON PRELIMINARY INFORMATION FROM THE DRYER SYSTEM MANUFACTURER. CONTRACTOR SHALL REFER TO BCR'S FINAL DRAWINGS FOR ANY CHANGES PRIOR TO INSTALLING CONDUIT AND WIRE AND SHALL ADJUST CONDUIT, WIRE SIZES, AND DISCONNECT SWITCH RATINGS AS REQUIRED.
3. THE CONTRACTOR SHALL PROVIDE ALL CONDUIT AND WIRE, AND DISCONNECT SWITCHES SHOWN ON THE POWER BLOCK DIAGRAMS. REFER TO BCR SHOP DRAWINGS AND PROVIDE CONDUIT AND WIRE AS REQUIRED TO EQUIPMENT NOT SHOWN ON THE POWER BLOCK DIAGRAMS.
4. PROVIDE A WARNING SIGN ON THE DOOR PANEL CP26107 STATING "DANGER! THIS PANEL IS SUPPLIED FROM TWO SOURCES: MCC-26 AND UPS26107".
5. PROVIDE DUAL-ELEMENT TIME-DELAY CURRENT-LIMITING FUSES SIZE PER EQUIPMENT MANUFACTURER'S RECOMMENDATION.
6. SEE PLAN DRAWINGS ON 26-E-005 AND 26-E-008 FOR LOCATIONS OF CONDUIT STUB-UPS.
7. RECONNECT VENDOR FURNISHED WIRING.

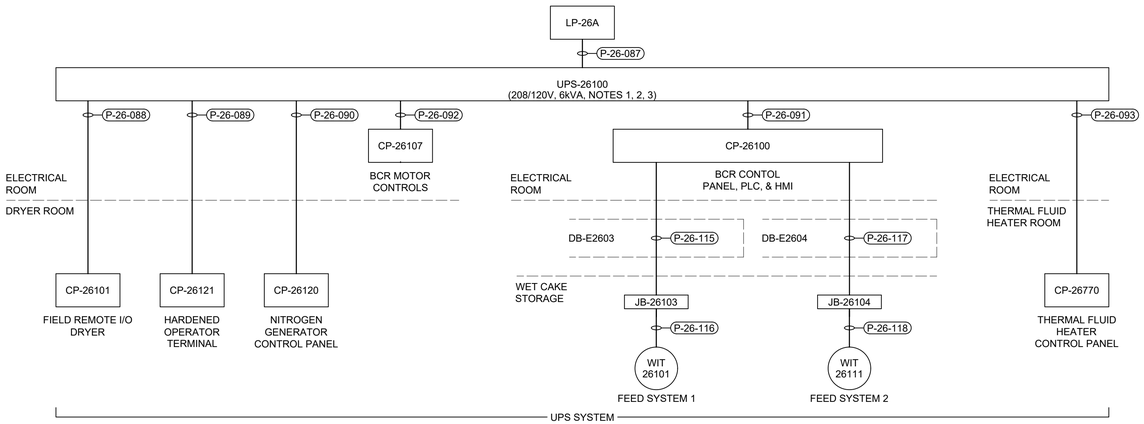






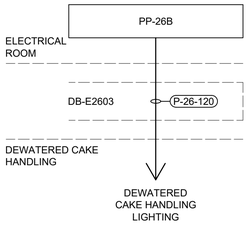
DRYER SYSTEM POWER CIRCUITS

BLOCK DIAGRAMS



DRYER SYSTEM UPS BACKED 120VAC CIRCUITS

POWER BLOCK DIAGRAMS



DEWATERED CAKE HANDLING

POWER BLOCK DIAGRAMS

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0, 1/2", 1")

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY VESSELA KANCHEVA, P.E. No. 35253 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

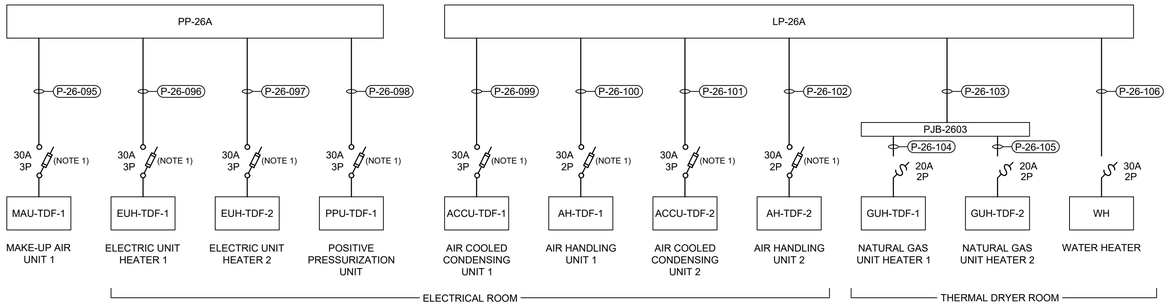
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
ELECTRICAL
POWER BLOCK DIAGRAMS

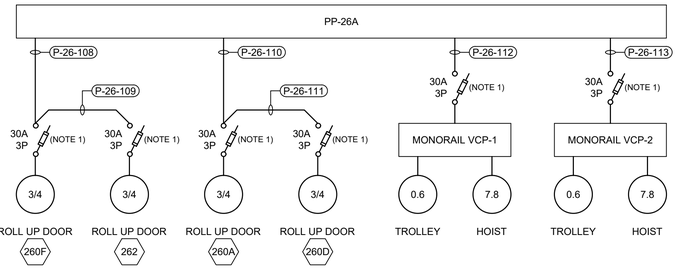
DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 26-E-025

File: C:\USERS\DELAM\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\26-E-025 Saved by DELAM Save date: 3/4/2026 7:26 AM
PLOT DATE: 3/4/2026 8:42 AM BY: DELAM



THERMAL DRYER FACILITY HVAC AND PLUMBING

POWER BLOCK DIAGRAMS



THERMAL DRYER FACILITY MISCELLANEOUS

POWER BLOCK DIAGRAMS

NOTES:

1. PROVIDE DUAL-ELEMENT TIME-DELAY CURRENT-LIMITING FUSES SIZED PER EQUIPMENT MANUFACTURER'S RECOMMENDATION.

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER
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THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
ELECTRICAL
POWER BLOCK DIAGRAMS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 26-E-026

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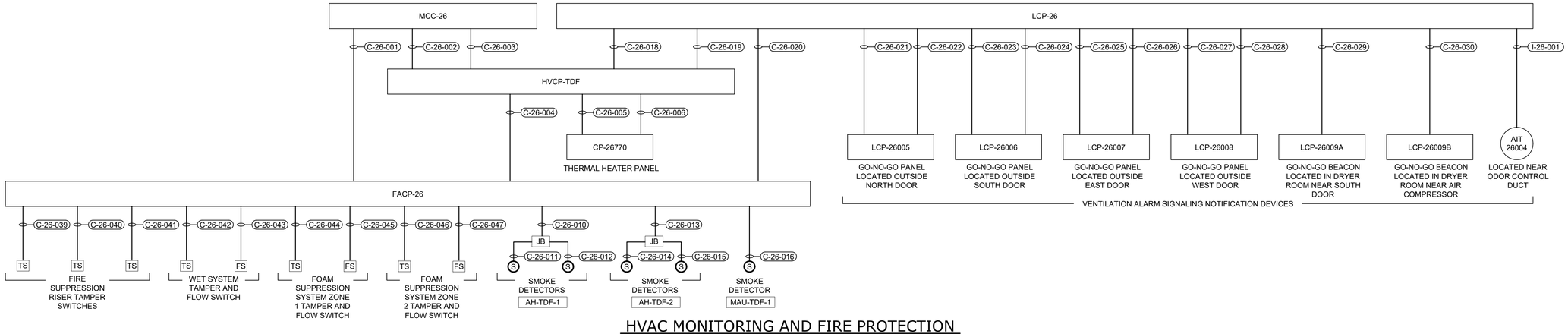
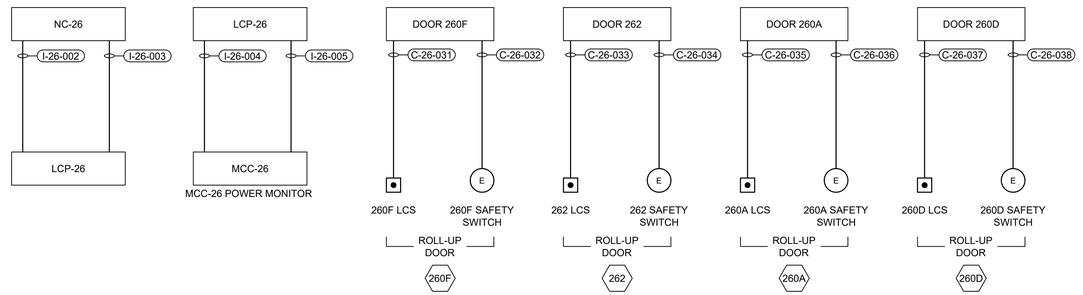
PLOT DATE: 3/4/2026 8:42 AM BY: DELAM



HVAC MONITORING AND FIRE PROTECTION
CONTROL BLOCK DIAGRAMS



THERMAL DRYER FACILITY MISCELLANEOUS
CONTROL BLOCK DIAGRAMS

NOTES:

1. ALL CONTROL WIRING AND CONDUIT BETWEEN HVAC SYSTEM COMPONENTS, SUCH AS HVAC CONTROL PANEL, FIELD DEVICES, INSTRUMENTS AND DAMPERS SHALL BE PROVIDED BY THE HVAC CONTRACTOR IN ACCORDANCE WITH SPECIFICATIONS.
2. CONTROL WIRING BETWEEN HVAC CONTROL PANELS AND NON-HVAC EQUIPMENT AND CONTROL PANELS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AS SHOWN ON HVAC MONITORING AND FIRE PROTECTION CONTROL BLOCK DIAGRAM.
3. PROVIDE CONTROL CONDUIT AND WIRE FROM FOAM-WATER DELUGE SYSTEM CONTROL PANEL AND WET SPRINKLER SYSTEM CONTROL PANEL TO FIRE ALARM CONTROL PANEL TO ALARM THE PANEL UPON SYSTEMS' ACTIVATION AND SHUT DOWN THE HVAC UNITS.
4. PROVIDE CONTROL CONDUIT AND WIRE AS SHOWN FROM THE FIRE ALARM SYSTEM CONTROL PANEL TO THE AIR CONDITIONING UNITS EXHAUST AND SUPPLY FAN UNITS AND ELECTRIC UNIT HEATER FANS TO SHUT DOWN THE UNITS UPON SYSTEM ACTIVATION.
5. PROVIDE CONDUIT AND WIRE AS SHOWN BETWEEN THE VENTILATION CONTROL PANEL AND LCP-26 TO ALARM PLANT CONTROL SYSTEM SYSTEM AND ACTIVATE VENTILATION ALARM SIGNALING NOTIFICATION DEVICES UPON VENTILATION FAILURE.
6. PROVIDE INTERLOCKS BETWEEN THE THERMAL HEATER CONTROL PANEL AND VENTILATION CONTROL PANEL TO OPEN AND CLOSE VENTILATION DAMPERS IN THERMAL FLUID HEATER ROOM IN ACCORDANCE WITH SPECIFICATIONS.

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

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PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	V. KANCHEVA
DRAWN BY:	D. ELAM
CHECKED BY:	N. MEYER

CONFORMED DRAWING

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FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
ELECTRICAL
CONTROL BLOCK DIAGRAMS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 26-E-027

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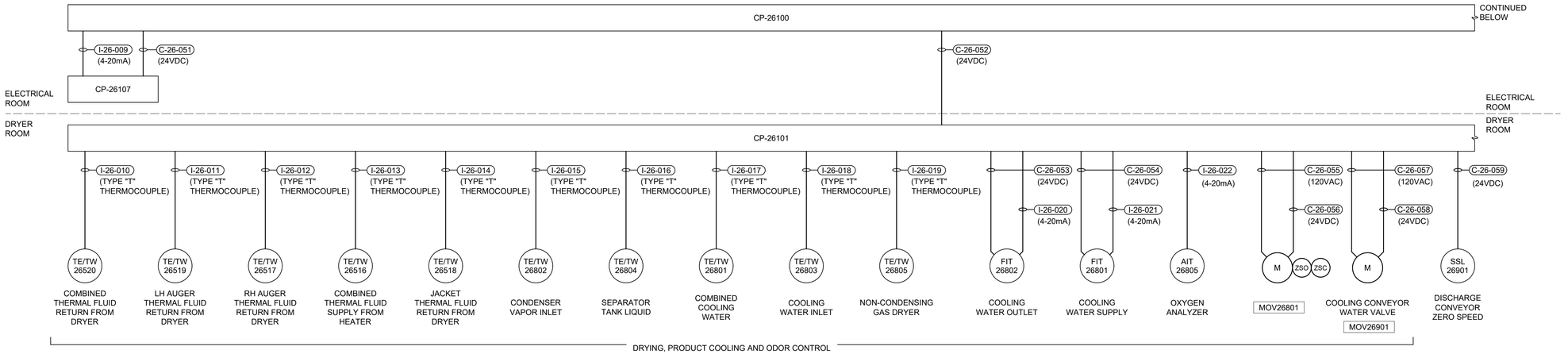

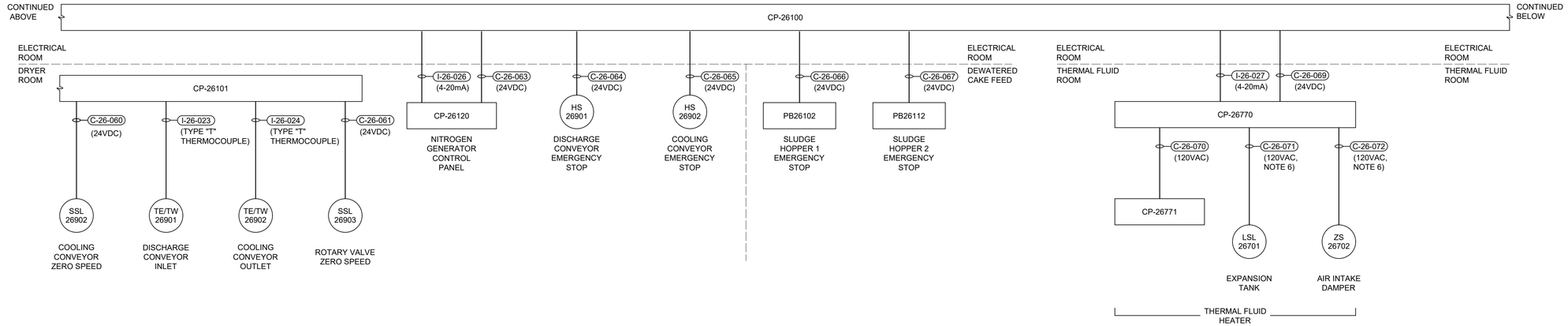

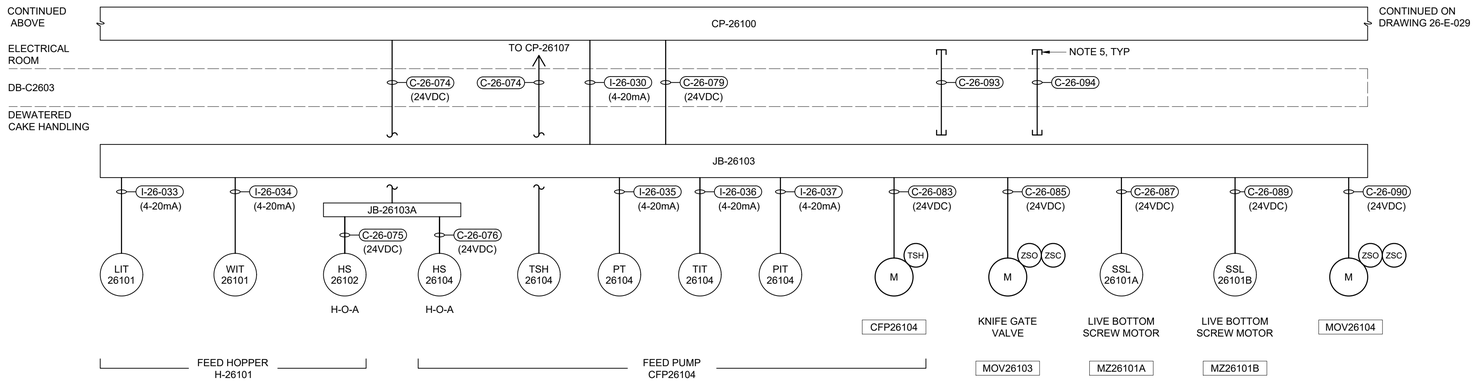

NOTES:

1. CONTROL PANELS SHOWN ON THE BLOCK DIAGRAM ARE TO BE FURNISHED BY THE DRYER SYSTEM MANUFACTURER, BCR, AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL REFERENCE BCR'S SHOP DRAWINGS FOR MORE SPECIFIC INFORMATION.
2. THE BLOCK DIAGRAMS ARE BASED ON PRELIMINARY INFORMATION FROM THE DRYER SYSTEM MANUFACTURER. CONTRACTOR SHALL REFER TO BCR'S FINAL DRAWINGS FOR ANY CHANGES PRIOR TO INSTALLING CONDUIT AND WIRE AND SHALL ADJUST CONDUIT AND WIRE SIZES AS REQUIRED.
3. THE CONTRACTOR SHALL PROVIDE ALL CONDUIT AND WIRE SHOWN ON THE CONTROL BLOCK DIAGRAMS. REFER TO BCR SHOP DRAWINGS AND PROVIDE CONDUIT AND WIRE AS REQUIRED TO EQUIPMENT NOT SHOWN ON THE BLOCK DIAGRAMS. REFERENCE BCR'S TIE-POINT SCHEDULE FOR CONTROL WIRING COLOR REQUIREMENTS.
4. NOTES 1,2,AND 3 ARE TYPICAL FOR ALL BLOCK DIAGRAMS SHOWING DRYER SYSTEM EQUIPMENT FURNISHED BY BCR.
5. SEE PLAN DRAWINGS ON 26-E-005 AND 26-E-008 FOR LOCATIONS OF CONDUIT STUB-UPS.
6. RECONNECT VENDOR FURNISHED WIRING.

BCR DRYER SYSTEM
CONTROL BLOCK DIAGRAMS

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER
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CANTON, GEORGIA

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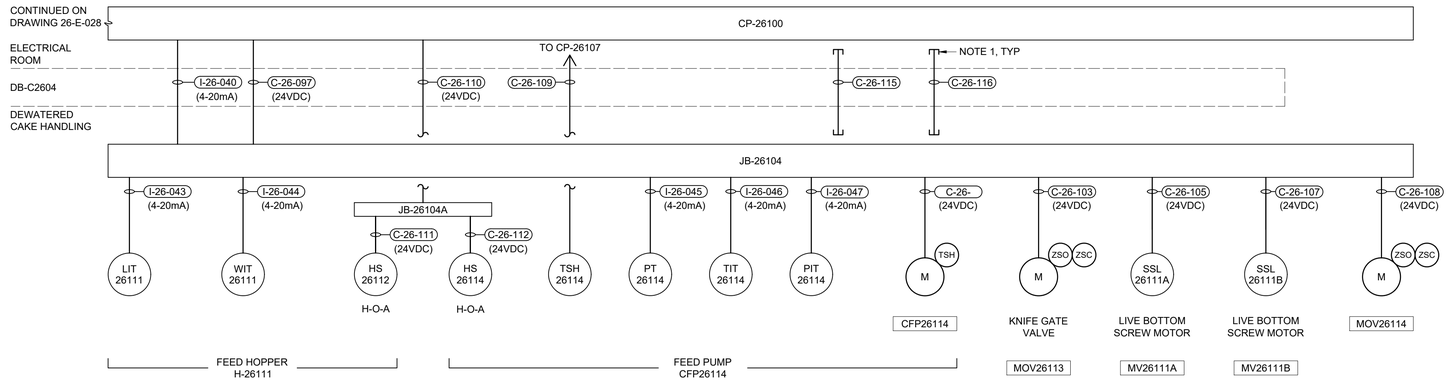
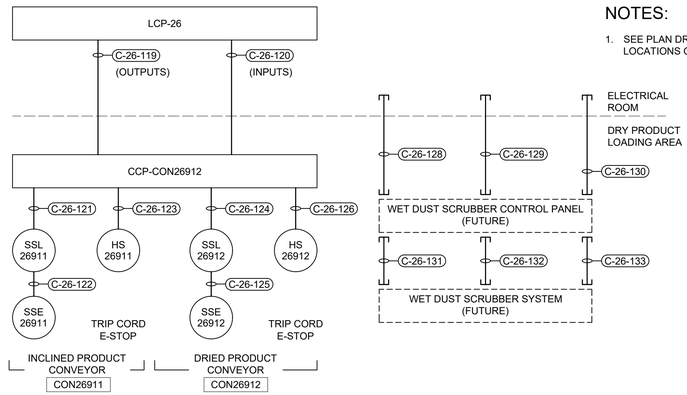
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
ELECTRICAL
CONTROL BLOCK DIAGRAMS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 26-E-028

File: C:\USERS\DELAM\DCA\CDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\26-E-028 Saved by DELAM Save date: 3/4/2026 8:43 AM
PLOT DATE: 3/4/2026 8:43 AM BY: DELAM



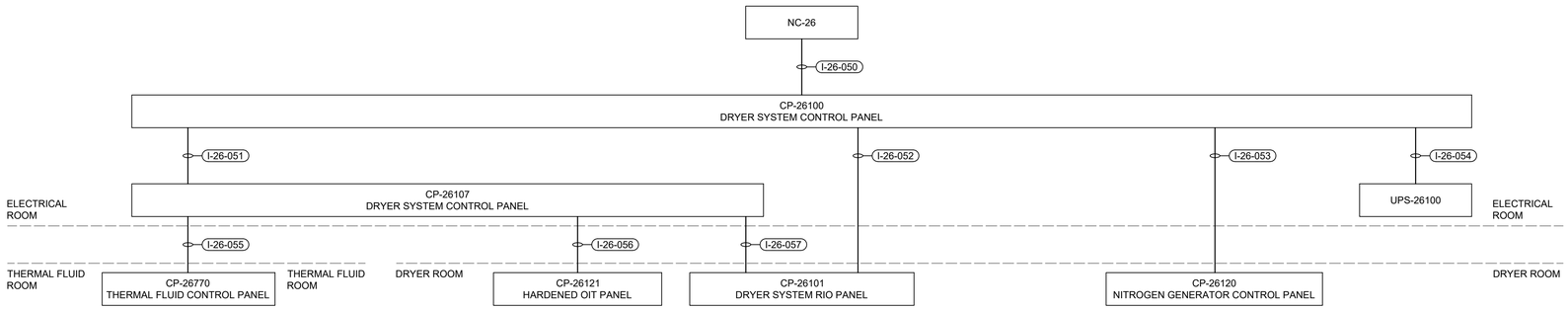


NOTES:

1. SEE PLAN DRAWINGS ON 26-E-005 AND 26-E-008 FOR LOCATIONS OF CONDUIT STUB-UPS.

BCR DRYER SYSTEM

CONTROL BLOCK DIAGRAMS



BCR DRYER SYSTEM NETWORK ARCHITECTURE

COMMUNICATION BLOCK DIAGRAM

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
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THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
ELECTRICAL
CONTROL BLOCK DIAGRAMS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 26-E-029

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PLOT DATE: 3/4/2026 8:43 AM BY: DELAM

CONDUIT No.	SIZE	FROM	TO	CONDUCTORS	REMARKS
P-26-001	4"	SWGR-25 (EXISTING)	PPB-2501	3-350KCMIL, #3/0 GND	MCC-26 MAIN (1 OF 3)
P-26-002	4"	SWGR-25 (EXISTING)	PPB-2501	3-350KCMIL, #3/0 GND	MCC-26 MAIN (2 OF 3)
P-26-003	4"	SWGR-25 (EXISTING)	PPB-2501	3-350KCMIL, #3/0 GND	MCC-26 MAIN (3 OF 3)
P-26-004	4"	SWGR-25 (EXISTING)	PPB-2501	EMPTY W/ PULLSTRING	SPARE
P-26-005	4"	PPB-2501	EMH-01 (EXISTING)	3-350KCMIL, #3/0 GND	MCC-26 MAIN (1 OF 3)
P-26-006	4"	PPB-2501	EMH-01 (EXISTING)	3-350KCMIL, #3/0 GND	MCC-26 MAIN (2 OF 3)
P-26-007	4"	PPB-2501	EMH-01 (EXISTING)	3-350KCMIL, #3/0 GND	MCC-26 MAIN (3 OF 3)
P-26-008	4"	PPB-2501	EMH-01 (EXISTING)	EMPTY W/ PULLSTRING	SPARE
P-26-009	4"	EMH-01 (EXISTING)	MCC-26	3-350KCMIL, #3/0 GND	MCC-26 MAIN (1 OF 3)
P-26-010	4"	EMH-01 (EXISTING)	MCC-26	3-350KCMIL, #3/0 GND	MCC-26 MAIN (2 OF 3)
P-26-011	4"	EMH-01 (EXISTING)	MCC-26	3-350KCMIL, #3/0 GND	MCC-26 MAIN (3 OF 3)
P-26-012	4"	EMH-01 (EXISTING)	MCC-26	EMPTY W/ PULLSTRING	SPARE
P-26-013					
P-26-014					
P-26-015	1"	LP-25B (EXISTING)	PPB-2501	4#8, #8GND	RECP - EMH/CMH-26A
P-26-016	1-1/2"	PPB-2501	EMH-01 (EXISTING)	4#8, #8GND	RECP - EMH/CMH-26A
P-26-017	1-1/2"	EMH-01 (EXISTING)	EMH-26A	4#8, #8GND	RECP - EMH/CMH-26A
P-26-018	3/4"	EMH-26A	EMH-26A RECEPTACLE	2#8, #8GND	
P-26-019	3/4"	EMH-26A	CMH-26A	2#8, #8GND	
P-26-020	3/4"	CMH-26A	CMH-26A RECEPTACLE	2#8, #8GND	
P-26-021					
P-26-022					
P-26-023	1-1/2"	LP-25B (EXISTING)	PPB-2501	EMPTY W/ PULLSTRING	SPARE
P-26-024	1-1/2"	PPB-2501	EMH-01 (EXISTING)	EMPTY W/ PULLSTRING	SPARE
P-26-025	1-1/2"	EMH-01 (EXISTING)	EMH-26A	EMPTY W/ PULLSTRING	SPARE
P-26-026					
P-26-027	3"	MCC-26	CP-26107	3-350KCMIL, #4GND	
P-26-028	3"	MCC-26	CP-26771	3-350KCMIL, #4GND	
P-26-029					
P-26-030	1-1/2"	MCC-26	CP-26904	3#8, #10GND	VIA DSW
P-26-031	2-1/2"	MCC-26	PP-26A	3-250KCMIL, #4GND	
P-26-032	1"	PP-26A	TX-26A	3#6, #8GND	
P-26-033	2"	TX-26A	LP-26A	4#1, #8GND	
P-26-034	1"	MCC-26	TX-26B	3#6, #8GND	
P-26-035					
P-26-036	1"	TX-26B	PP-26B	4#6, #8GND	
P-26-037	1"	MCC-26	EF-TDF-1	3#12, #12GND	VIA DSW
P-26-038	1"	MCC-26	EF-TDF-2	3#12, #12GND	VIA DSW
P-26-039	1"	MCC-26	SF-TDF-1	3#12, #12GND	VIA DSW
P-26-040	3/4"	MCC-26	VFD-VF-TDF-1	3#12, #12GND	
P-26-041	1"	VFD-VF-TDF-1	VF-TDF-1	3/C#12, #12GND, VFD CABLE	VIA DSW ← NOTE 1, TYP
P-26-042	3/4"	MCC-26	VFD-VF-TDF-2	3#12, #12GND	
P-26-043	1"	VFD-VF-TDF-2	VF-TDF-2	3/C#12, #12GND, VFD CABLE	VIA DSW
P-26-044					
P-26-045	1"	MCC-26	CCP-CON29612	3#8, #10GND	
P-26-046	3/4"	CCP-CON29612	CON26911	3#12, #12GND	VIA DSW
P-26-047	3/4"	CCP-CON29612	CON26912	3#12, #12GND	VIA DSW
P-26-048					
P-26-049					
P-26-050					
P-26-051					
P-26-052					
P-26-053	1-1/2"	CP-26107	MZ26101A	3/C#10, #10GND VFD CABLE	VIA DSW
P-26-054	1-1/2"	CP-26107	MZ26101B	3/C#10, #10GND VFD CABLE	VIA DSW
P-26-055	1-1/2"	CP-26107	MZ26102A	3/C#12, #12GND VFD CABLE	VIA DSW
P-26-056	1-1/2"	CP-26107	MZ26102B	3/C#12, #12GND VFD CABLE	VIA DSW
P-26-057	1-1/2"	CP-26107	MP26104	3/C#6, #6GND VFD CABLE	VIA DSW
P-26-058	1"	CP-26107	PJB-2601	6#10, #10GND	MOV-26104 & MOV-26103
P-26-059	3/4"	PJB-2601	MOV26104	3#10, #10GND	VIA DSW
P-26-060	3/4"	PJB-2601	MOV26103	3#10, #10GND	VIA DSW
P-26-061					
P-26-062	1"	CONDUIT STUB UP (ELECTRICAL ROOM)	CONDUIT STUB UP (DEWAT. CAKE HOPPER 1)	EMPTY W/ PULLSTRING	
P-26-063	1"	CONDUIT STUB UP (ELECTRICAL ROOM)	CONDUIT STUB UP (DEWAT. CAKE HOPPER 1)	EMPTY W/ PULLSTRING	
P-26-064					
P-26-065	1-1/2"	CP-26107	MZ26111A	3/C#10, #10GND VFD CABLE	VIA DSW
P-26-066	1-1/2"	CP-26107	MZ26111B	3/C#10, #10GND VFD CABLE	VIA DSW
P-26-067	1-1/2"	CP-26107	MZ26112A	3/C#12, #12GND VFD CABLE	VIA DSW
P-26-068	1-1/2"	CP-26107	MZ26112B	3/C#12, #12GND VFD CABLE	VIA DSW
P-26-069	1-1/2"	CP-26107	MP26114	3/C#6, #6GND VFD CABLE	VIA DSW
P-26-070	1"	CP-26107	PJB-2602	6#10, #10GND	MOV-26100 & MOV-26113
P-26-071	3/4"	PJB-2602	MOV26100	3#10, #10GND	VIA DSW
P-26-072	3/4"	PJB-2602	MOV26113	3#10, #10GND	VIA DSW
P-26-073					
P-26-074	1"	CONDUIT STUB UP (ELECTRICAL ROOM)	CONDUIT STUB UP (DEWAT. CAKE HOPPER 2)	EMPTY W/ PULLSTRING	
P-26-075	1"	CONDUIT STUB UP (ELECTRICAL ROOM)	CONDUIT STUB UP (DEWAT. CAKE HOPPER 2)	EMPTY W/ PULLSTRING	
P-26-076					
P-26-077	1-1/2"	CP-26107	MZ26501	3/C#8, #8GND VFD CABLE	VIA DSW
P-26-078	1-1/2"	CP-26107	MZ26502	3/C#8, #8GND VFD CABLE	VIA DSW
P-26-079	1-1/2"	CP-26107	MB26801	3/C#12, #12GND VFD CABLE	VIA DSW
P-26-080	1-1/2"	CP-26107	MC26901	3/C#12, #12GND VFD CABLE	VIA DSW

CONDUIT No.	SIZE	FROM	TO	CONDUCTORS	REMARKS
P-26-081	1-1/2"	CP-26107	MC26902	3/C#10, #10GND VFD CABLE	VIA DSW
P-26-082	1-1/2"	CP-26107	MC26903	3/C#12, #12GND VFD CABLE	VIA DSW
P-26-083					
P-26-084	2-1/2"	CP-26771	MP26701	3#4/0, #6GND	VIA DSW
P-26-085	1-1/2"	CP-26771	BL26702	MANUFACTURED SUPPLIED CABLE	VIA DSW
P-26-086	3/4"	LP-26A	D26902	2#10, #10GND	VIA DSW
P-26-087	1"	LP-26A	UPS-26100	3#8, #8GND	
P-26-088	3/4"	UPS-26100	CP-26101	2#10, #10GND	
P-26-089	3/4"	UPS-26100	CP-26121	2#10, #10GND	
P-26-090	3/4"	UPS-26100	CP-26120	2#10, #10GND	
P-26-091	3/4"	UPS-26100	CP-26100	2#10, #10GND	
P-26-092	3/4"	UPS-26100	CP-26107	2#10, #10GND	
P-26-093	3/4"	UPS-26100	CP-26770	2#10, #10GND	
P-26-094					
P-26-095	3/4"	PP-26A	MAU-TDF-1	3#10, #10GND	VIA DSW
P-26-096	3/4"	PP-26A	EUH-TDF-1	3#12, #12GND	VIA DSW
P-26-097	3/4"	PP-26A	EUH-TDF-2	3#12, #12GND	VIA DSW
P-26-098	3/4"	PP-26A	PPU-TDF-1	3#12, #12GND	VIA DSW
P-26-099	3/4"	LP-26A	ACCU-TDF-1	3#12, #12GND	VIA DSW
P-26-100	3/4"	LP-26A	AH-TDF-1	2#12, #12GND	VIA DSW
P-26-101	3/4"	LP-26A	ACCU-TDF-2	3#12, #12GND	VIA DSW
P-26-102	3/4"	LP-26A	AH-TDF-2	2#12, #12GND	VIA DSW
P-26-103	3/4"	LP-26A	PJB-2603	4#12, #12GND	GUH-TDF-1 / GUH-TDF-2
P-26-104	3/4"	PJB-2603	GUH-TDF-1	2#12, #12GND	VIA DSW
P-26-105	3/4"	PJB-2603	GUH-TDF-2	2#12, #12GND	VIA DSW
P-26-106	3/4"	LP-26A	WH (WATER HEATER)	2#10, #10GND	VIA DSW
P-26-107					
P-26-108	3/4"	PP-26A	DOOR 260F	3#10, #10GND	VIA DSW
P-26-109	3/4"	DOOR 260F	DOOR 262	3#10, #10GND	VIA DSW
P-26-110	3/4"	PP-26A	DOOR 260A	3#10, #10GND	VIA DSW
P-26-111	3/4"	DOOR 260A	DOOR 260D	3#10, #10GND	VIA DSW
P-26-112	3/4"	PP-26A	MONORAIL VCP-1	3#10, #10GND	VIA DSW
P-26-113	3/4"	PP-26A	MONORAIL VCP-2	3#10, #10GND	VIA DSW
P-26-114					
P-26-115	1"	CP-26100	JB-26103	2#10, #10GND	WIT-26101
P-26-116	3/4"	JB-26103	WIT-26101	2#12, #12GND	
P-26-117	1"	CP-26100	JB-26104	2#10, #10GND	WIT-26111
P-26-118	3/4"	JB-26104	WIT-26111	2#12, #12GND	
P-26-119					
P-26-120	1"	PP-26B	LTG - DEWATERED CAKE HANDLING	2#10, #10GND	
P-26-121					
P-26-122	1-1/2"	CONDUIT STUB UP (ELECTRICAL ROOM)	CONDUIT STUB UP (DRYER ROOM)	EMPTY W/ PULLSTRING	FUTURE WET DUST SCRUBBER CP
P-26-123	1-1/2"	CONDUIT STUB UP (ELECTRICAL ROOM)	CONDUIT STUB UP (DRYER ROOM)	EMPTY W/ PULLSTRING	FUTURE WET DUST SCRUBBER CP
P-26-124	1-1/2"	CONDUIT STUB UP (DRYER ROOM)	CONDUIT STUB UP (DRYER ROOM)	EMPTY W/ PULLSTRING	FUTURE WET DUST SCRUBBER SYS
P-26-125	1-1/2"	CONDUIT STUB UP (DRYER ROOM)	CONDUIT STUB UP (DRYER ROOM)	EMPTY W/ PULLSTRING	FUTURE WET DUST SCRUBBER SYS
P-26-126					

NOTES:

1. ADHERE TO CABLE MANUFACTURER'S INSTRUCTIONS FOR VFD CABLE INSTALLATION.

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY VESSELA KANCHEVA, P.E. No. 35253 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY
ELECTRICAL
CONDUIT AND WIRE SCHEDULES

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 26-E-030

File: C:\USERS\DELAM\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\26-E-030 Saved by DELAM Save date: 3/4/2026 7:28 AM
PLOT DATE: 3/4/2026 8:43 AM BY: DELAM

CONDUIT No.	SIZE	FROM	TO	CONDUCTORS	REMARKS
C-26-001	3/4"	MCC-26	FACP-26	6#14, #14GND	
C-26-002	3/4"	MCC-26	HVCP-TDF	6#14, #14GND	
C-26-003	1"	MCC-26	HVCP-TDF	18#14, #14GND	
C-26-004	3/4"	HVCP-TDF	FACP-26	4#14, #14GND	
C-26-005	1"	HVCP-TDF	CP-26770	16#14, #14GND	
C-26-006	1"	HVCP-TDF	CP-26770	16#14, #14GND	
C-26-007					
C-26-008					
C-26-009					
C-26-010	3/4"	FACP-26	JB	6#14, #14GND	AH-TDF-1 SMOKE DETECTORS
C-26-011	3/4"	JB	AH-TDF-1 SMOKE DETECTOR	2#14, #14GND	
C-26-012	3/4"	JB	AH-TDF-1 SMOKE DETECTOR	2#14, #14GND	
C-26-013	3/4"	FACP-26	JB	6#14, #14GND	AH-TDF-2 SMOKE DETECTORS
C-26-014	3/4"	JB	AH-TDF-2 SMOKE DETECTOR	2#14, #14GND	
C-26-015	3/4"	JB	AH-TDF-2 SMOKE DETECTOR	2#14, #14GND	
C-26-016	3/4"	FACP-26	MAU-TDF-1 SMOKE DETECTOR	2#14, #14GND	
C-26-017					
C-26-018	3/4"	LCP-26	HVCP-TDF	10#14, #14GND	
C-26-019	1"	LCP-26	HVCP-TDF	EMPTY W/ PULLSTRING	SPARE
C-26-020	3/4"	LCP-26	FACP-26	10#14, #14GND	
C-26-021	3/4"	LCP-26	LCP-26005	4#14, #14GND	
C-26-022	3/4"	LCP-26	LCP-26005	4#14, #14GND	
C-26-023	3/4"	LCP-26	LCP-26006	4#14, #14GND	
C-26-024	3/4"	LCP-26	LCP-26006	4#14, #14GND	
C-26-025	3/4"	LCP-26	LCP-26007	4#14, #14GND	
C-26-026	3/4"	LCP-26	LCP-26007	4#14, #14GND	
C-26-027	3/4"	LCP-26	LCP-26008	4#14, #14GND	
C-26-028	3/4"	LCP-26	LCP-26008	4#14, #14GND	
C-26-029	3/4"	LCP-26	LCP-26009A	4#14, #14GND	
C-26-030	3/4"	LCP-26	LCP-26009B	4#14, #14GND	
C-26-031	3/4"	DOOR 260F	DOOR 260F LCS	8#14, #14GND	
C-26-032	1"	DOOR 260F	DOOR 260F SAFETY SWITCH	MANUFACTURER SUPPLIED CABLE	
C-26-033	3/4"	DOOR 262	DOOR 262 LCS	8#14, #14GND	
C-26-034	1"	DOOR 262	DOOR 262 SAFETY SWITCH	MANUFACTURER SUPPLIED CABLE	
C-26-035	3/4"	DOOR 260A	DOOR 260A LCS	8#14, #14GND	
C-26-036	1"	DOOR 260A	DOOR 260A SAFETY SWITCH	MANUFACTURER SUPPLIED CABLE	
C-26-037	3/4"	DOOR 260D	DOOR 260D LCS	8#14, #14GND	
C-26-038	1"	DOOR 260D	DOOR 260D SAFETY SWITCH	MANUFACTURER SUPPLIED CABLE	
C-26-039	3/4"	FACP-26	FIRE SUPPRESSION RISER TAMPER SWITCH	4#14, #14GND	
C-26-040	3/4"	FACP-26	FIRE SUPPRESSION RISER TAMPER SWITCH	4#14, #14GND	
C-26-041	3/4"	FACP-26	FIRE SUPPRESSION RISER TAMPER SWITCH	4#14, #14GND	
C-26-042	3/4"	FACP-26	WET SYSTEM TAMER SWITCH	4#14, #14GND	
C-26-043	3/4"	FACP-26	WET SYSTEM FLOW SWITCH	4#14, #14GND	
C-26-044	3/4"	FACP-26	FOAM SUPPRESSION ZONE 1 TAMPER SWITCH	4#14, #14GND	
C-26-045	3/4"	FACP-26	FOAM SUPPRESSION ZONE 1 FLOW SWITCH	4#14, #14GND	
C-26-046	3/4"	FACP-26	FOAM SUPPRESSION ZONE 2 TAMPER SWITCH	4#14, #14GND	
C-26-047	3/4"	FACP-26	FOAM SUPPRESSION ZONE 2 FLOW SWITCH	4#14, #14GND	
C-26-048					
C-26-049					
C-26-050					
C-26-051	2"	CP-26100	CP-26107	30#14, #14GND	
C-26-052	3/4"	CP-26100	CP-26101	8#14, #14GND	
C-26-053	3/4"	CP-26101	FIT-26802	2#14, #14GND	
C-26-054	3/4"	CP-26101	FIT-26801	2#14, #14GND	
C-26-055	3/4"	CP-26101	MOV26801	2#14, #14GND	
C-26-056	3/4"	CP-26101	MOV26801	6#14, #14GND	
C-26-057	3/4"	CP-26101	MV26901	2#14, #14GND	
C-26-058	3/4"	CP-26101	MOV26901	6#14, #14GND	
C-26-059	3/4"	CP-26101	SSL-26901	4#14, #14GND	
C-26-060	3/4"	CP-26101	SSL-26902	4#14, #14GND	
C-26-061	3/4"	CP-26101	SSL-26903	4#14, #14GND	
C-26-062					
C-26-063	3/4"	CP-26100	CP-26120	2#14, #14GND	
C-26-064	3/4"	CP-26100	PB26901	6#14, #14GND	
C-26-065	3/4"	CP-26100	PB26902	6#14, #14GND	
C-26-066	3/4"	CP-26100	PB26102	6#14, #14GND	
C-26-067	3/4"	CP-26100	PB26101	6#14, #14GND	
C-26-068					
C-26-069	2"	CP-26100	CP-26770	24#14, #14GND	
C-26-070	3/4"	CP-26770	CP-26771	8#14, #14GND	
C-26-071	3/4"	CP-26770	LSL-26701	2#14, #14GND	
C-26-072	3/4"	CP-26770	ZS-26702	4#14, #14GND	
C-26-073					
C-26-074	1"	CP-26100	JB-26103A	8#14, #14GND	HS-26101 & HS-26102
C-26-075	3/4"	JB-26103A	HS-26102	4#14, #14GND	
C-26-076	3/4"	JB-26103A	HS-26101	4#14, #14GND	
C-26-077	1"	CP-26107	TSH-26104	4#14, #14GND	
C-26-078					
C-26-079	2"	CP-26100	JB-26103	24#14, #14GND	
C-26-080					

CONDUIT No.	SIZE	FROM	TO	CONDUCTORS	REMARKS
C-26-081					
C-26-082					
C-26-083	3/4"	JB-26103	CFP26104	6#14, #14GND	
C-26-084					
C-26-085	3/4"	JB-26103	MOV26103	8#14, #14GND	
C-26-086					
C-26-087	3/4"	JB-26103	SSL26101A	6#12, #12GND	
C-26-088					
C-26-089	3/4"	JB-26103	SSL26101B	6#12, #12GND	
C-26-090	3/4"	JB-26103	MOV-26104	8#14, #14GND	
C-26-091					
C-26-092					
C-26-093	1"	THERMAL DRYER FACILITY ELECTRICAL ROOM	DEWATERED CAKE HANDLING	EMPTY W/ PULLSTRING	SPARE
C-26-094	1"	THERMAL DRYER FACILITY ELECTRICAL ROOM	DEWATERED CAKE HANDLING	EMPTY W/ PULLSTRING	SPARE
C-26-095					
C-26-096					
C-26-097	2"	CP-26100	JB-26104	24#14, #14GND	
C-26-098					
C-26-099					
C-26-100					
C-26-101	3/4"	JB-26104	CFP26114	6#14, #14GND	
C-26-102					
C-26-103	3/4"	JB-26104	MOV-26113	8#14, #14GND	
C-26-104					
C-26-105	3/4"	JB-26104	SSL-26111A	6#12, #12GND	
C-26-106					
C-26-107	3/4"	JB-26104	SSL-26111B	6#12, #12GND	
C-26-108	3/4"	JB-26104	MOV-26114	8#14, #14GND	
C-26-109	1"	CP-26107	TSH-26114	4#14, #14GND	
C-26-110	1"	CP-26100	JB-26104A	8#14, #14GND	HS-26111 & HS-26112
C-26-111	3/4"	JB-26104A	HS-26112	4#14, #14GND	
C-26-112	3/4"	JB-26104A	HS-26111	4#14, #14GND	
C-26-113					
C-26-114					
C-26-115	1"	THERMAL DRYER FACILITY ELECTRICAL ROOM	DEWATERED CAKE HANDLING	EMPTY W/ PULLSTRING	SPARE
C-26-116	1"	THERMAL DRYER FACILITY ELECTRICAL ROOM	DEWATERED CAKE HANDLING	EMPTY W/ PULLSTRING	SPARE
C-26-117					
C-26-118					
C-26-119	3/4"	LCP-26	CCP-CON26912	4#14, #14GND	
C-26-120	1"	LCP-26	CCP-CON26912	12#14, #14GND	
C-26-121	1"	CCP-CON26912	SSL-26911	4#12, #12GND	
C-26-122	1"	SSL-26911	SSE-26911	MANUFACTURER SUPPLIED CABLE	
C-26-123	3/4"	CCP-CON26912	HS-26911	4#14, #14GND	
C-26-124	1"	CCP-CON26912	SSL-26912	4#12, #12GND	
C-26-125	1"	SSL-26912	SSE-26912	MANUFACTURER SUPPLIED CABLE	
C-26-126	3/4"	CCP-CON26912	HS-26912	4#14, #14GND	
C-26-127					
C-26-128	1-1/2"	CONDUIT STUB UP (ELECTRICAL ROOM)	CONDUIT STUB UP (DRYER ROOM)	EMPTY W/ PULLSTRING	FUTURE WET DUST SCRUBBER CP
C-26-129	1-1/2"	CONDUIT STUB UP (ELECTRICAL ROOM)	CONDUIT STUB UP (DRYER ROOM)	EMPTY W/ PULLSTRING	FUTURE WET DUST SCRUBBER CP
C-26-130	1-1/2"	CONDUIT STUB UP (ELECTRICAL ROOM)	CONDUIT STUB UP (DRYER ROOM)	EMPTY W/ PULLSTRING	FUTURE WET DUST SCRUBBER CP
C-26-131	1-1/2"	CONDUIT STUB UP (DRYER ROOM)	CONDUIT STUB UP (DRYER ROOM)	EMPTY W/ PULLSTRING	FUTURE WET DUST SCRUBBER SYS
C-26-132	1-1/2"	CONDUIT STUB UP (DRYER ROOM)	CONDUIT STUB UP (DRYER ROOM)	EMPTY W/ PULLSTRING	FUTURE WET DUST SCRUBBER SYS
C-26-133	1-1/2"	CONDUIT STUB UP (DRYER ROOM)	CONDUIT STUB UP (DRYER ROOM)	EMPTY W/ PULLSTRING	FUTURE WET DUST SCRUBBER SYS
C-26-134					

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
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1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER

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CONFORMED DRAWING

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1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY ELECTRICAL CONDUIT AND WIRE SCHEDULES

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 26-E-031

File: C:\USERS\DELAM\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\26-E-031 Saved by DELAM Save date: 3/4/2026 7:28 AM
PLOT DATE: 3/4/2026 8:43 AM BY: DELAM

CONDUIT No.	SIZE	FROM	TO	CONDUCTORS	REMARKS
I-26-001	1"	LCP-26	AIT-26004	2/C#16TSH	
I-26-002	1"	NC-26	LCP-26	CAT6 CABLE, BY DIV. 40	
I-26-003	1"	NC-26	LCP-26	EMPTY W/ PULLSTRING	SPARE
I-26-004	1"	LCP-26	MCC-26	CAT6 CABLE, BY DIV. 40	MCC-26 POWER MONITOR
I-26-005	2"	LCP-26	MCC-26	EMPTY W/ PULLSTRING	SPARE
I-26-006					
I-26-007					
I-26-008					
I-26-009	1"	CP-26100	CP-26107	2/C#16TSH	
I-26-010	1"	CP-26101	TE-26520	1- T1 THERMOCOUPLE WIRE	
I-26-011	1"	CP-26101	TE-26519	1- T1 THERMOCOUPLE WIRE	
I-26-012	1"	CP-26101	TE-26517	1- T1 THERMOCOUPLE WIRE	
I-26-013	1"	CP-26101	TE-26516	1- T1 THERMOCOUPLE WIRE	
I-26-014	1"	CP-26101	TE-26518	1- T1 THERMOCOUPLE WIRE	
I-26-015	1"	CP-26101	TE-26802	1- T2 THERMOCOUPLE WIRE	
I-26-016	1"	CP-26101	TE-26804	1- T2 THERMOCOUPLE WIRE	
I-26-017	1"	CP-26101	TE-26801	1- T2 THERMOCOUPLE WIRE	
I-26-018	1"	CP-26101	TE-26803	1- T2 THERMOCOUPLE WIRE	
I-26-019	1"	CP-26101	TE-26805	1- T2 THERMOCOUPLE WIRE	
I-26-020	1"	CP-26101	FIT-26802	2/C#16TSH	
I-26-021	1"	CP-26101	FIT-26801	2/C#16TSH	
I-26-022	1"	CP-26101	AT-26805	MANUFACTURER SUPPLIED CABLE	
I-26-023	1"	CP-26101	TE-26901	1- T2 THERMOCOUPLE WIRE	
I-26-024	1"	CP-26101	TE-26902	1- T2 THERMOCOUPLE WIRE	
I-26-025					
I-26-026	1-1/4"	CP-26100	CP-26120	3-2/C#16TSH	
I-26-027	1-1/4"	CP-26100	CP-26770	3-2/C#16TSH	
I-26-028					
I-26-029					
I-26-030	1-1/2"	CP-26100	JB-26103	4-2/C#16TSH	
I-26-031					
I-26-032					
I-26-033	1"	JB-26103	LIT-26101	2/C#16TSH	
I-26-034	1"	JB-26103	WIT-26101	2/C#16TSH	
I-26-035	1"	JB-26103	PT-26103	2/C#16TSH	
I-26-036	1"	JB-26103	TT-26101	2/C#16TSH	
I-26-037	1"	JB-26103	PT-26101	2/C#16TSH	
I-26-038					
I-26-039					
I-26-040	1-1/2"	CP-26100	JB-26104	4-2/C#16TSH	
I-26-041					
I-26-042					
I-26-043	1"	JB-26104	LIT-26111	2/C#16TSH	
I-26-044	1"	JB-26104	WIT-26111	2/C#16TSH	
I-26-045	1"	JB-26104	PT-26113	2/C#16TSH	
I-26-046	1"	JB-26104	TT-26111	2/C#16TSH	
I-26-047	1"	JB-26104	PT-26111	2/C#16TSH	
I-26-048					
I-26-049					
I-26-050	1"	NC-26	CP-26100	CAT6 CABLE, BY DIV. 40	
I-26-051	1"	CP-26100	CP-26107	CAT6 CABLE, BY DIV. 40	
I-26-052	1"	CP-26100	CP-26101	CAT6 CABLE, BY DIV. 40	
I-26-053	1"	CP-26100	CP-26120	CAT6 CABLE, BY DIV. 40	
I-26-054	1"	CP-26100	UPS-26100	CAT6 CABLE, BY DIV. 40	
I-26-055	1"	CP-26107	CP-26770	CAT6 CABLE, BY DIV. 40	
I-26-056	1"	CP-26107	CP-26121	CAT6 CABLE, BY DIV. 40	
I-26-057	1"	CP-26107	CP-26101	CAT6 CABLE, BY DIV. 40	
I-26-058					
I-26-059					
I-26-060	2"	LCP-26	CMH-2601	FO CABLE, BY DIV. 40	FROM LCP-26 TO LCP-24
I-26-061	2"	LCP-26	CMH-2601	EMPTY W/ PULLSTRING	SPARE
I-26-062					
I-26-063					

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

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HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

THERMAL DRYER FACILITY ELECTRICAL CONDUIT AND WIRE SCHEDULES

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 26-E-032

File: C:\USERS\DELAM\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\26-E-032 Saved by DELAM Save date: 3/4/2026 7:29 AM
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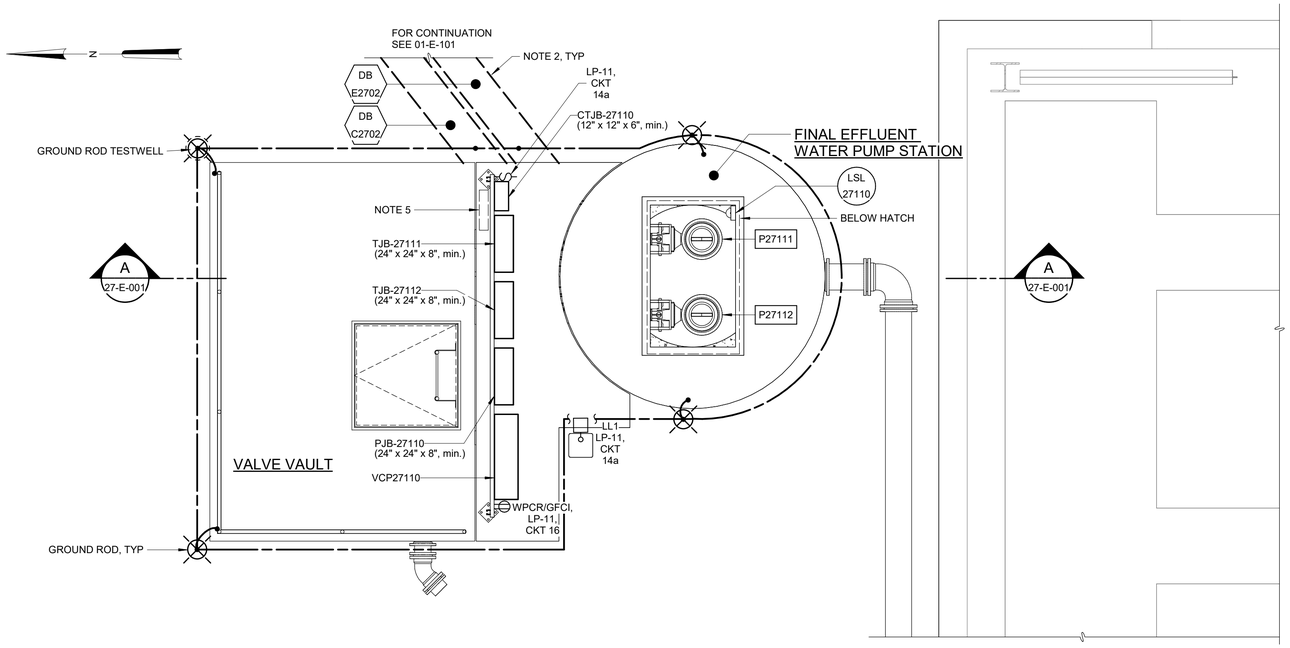


TOP PLAN

3/8" = 1'-0"

NOTES:

1. SEE BLOCK DIAGRAMS ON 27-E-002 FOR CONDUIT AND CONDUCTOR REQUIREMENTS.
2. CONDUITS FROM INCOMING DUCTBANKS DB-E2702 AND DB-C2702 SHALL EMERGE FROM THE GROUND AND TRANSITION TO EXPOSED INSTALLATION ALONG THE ELECTRICAL EQUIPMENT RACK. CONDUITS SHALL NOT PENETRATE THE VALVE VAULT.
3. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT FOR MANUFACTURER SUPPLIED PUMP AND FLOAT SWITCH CABLES BETWEEN WET WELL AND EQUIPMENT RACK. REFER TO STANDARD DETAIL E-33-0104R ON SHEET 99-ED-006 FOR ADDITIONAL REQUIREMENTS.
4. USE SST SUPPORT BRACKET AND SST CABLE GRIPS TO SUPPORT EACH CABLE. CABLE GRIPS AND SUPPORT BRACKET SHALL BE LOCATED NEAR ENOUGH TO THE PUMP ACCESS DOOR/HATCH TO ALLOW FOR CABLE REMOVAL WITHOUT ENTERING WETWELL.
5. SECURE SPARE CONDUIT FROM DUCTBANKS DB-E2702 AND DB-C2702 TO EQUIPMENT RACK. SEAL CONDUITS WITH END PLUGS.

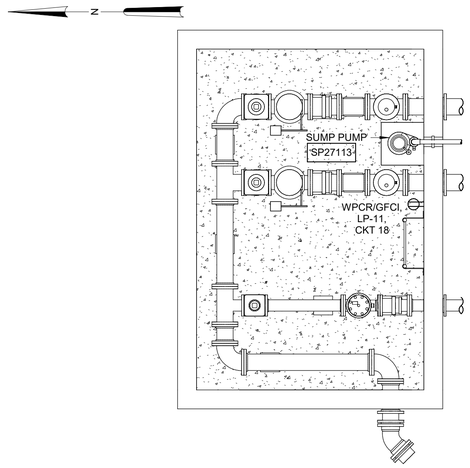
GROUNDING NOTES:

A. REFER TO N.E.C. ARTICLE 250.52(A)(3) FOR BONDING OF GROUND RING TO STRUCTURAL FOUNDATION REBAR.

B. GROUND RING CONDUCTOR SHALL BE #4/0 BARE COPPER WIRE 30" MINIMUM BELOW FINISHED GRADE. ALL GROUND CONDUCTORS TO EQUIPMENT OR STRUCTURAL STEEL SHALL BE BARE COPPER WIRE.

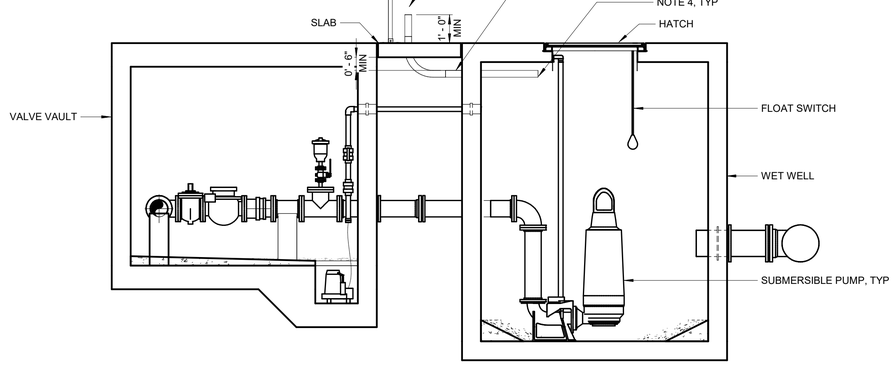
C. EACH DUCT BANK GROUND CONDUCTOR CROSSING THE GROUND RING SHALL BE EXOTHERMICALLY WELDED TO THE GROUND RING CONDUCTOR.

D. ALL PANELS AND EQUIPMENT RACK SHALL BE BONDED TO THE GROUND RING CONDUCTOR.



VALVE VAULT BOTTOM PLAN

3/8" = 1'-0"



SECTION A

3/8" = 1'-0"

27-E-001

3/8" = 1'-0"

12" 0 1 2 4'

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: J. JONES
CHECKED BY: N. MEYER

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

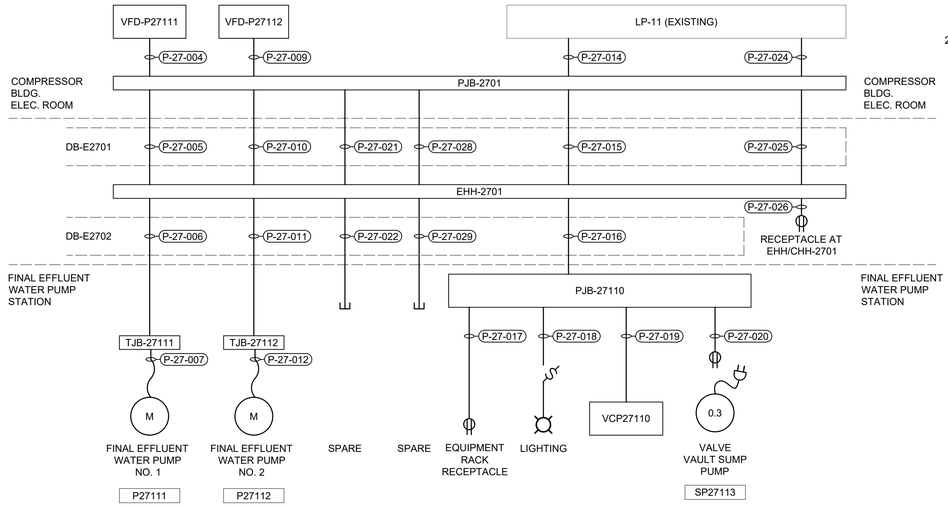
FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

FINAL EFFLUENT WATER PUMP STATION ELECTRICAL PLANS AND SECTION

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA No.: 2022_007
DRAWING NUMBER: 27-E-001

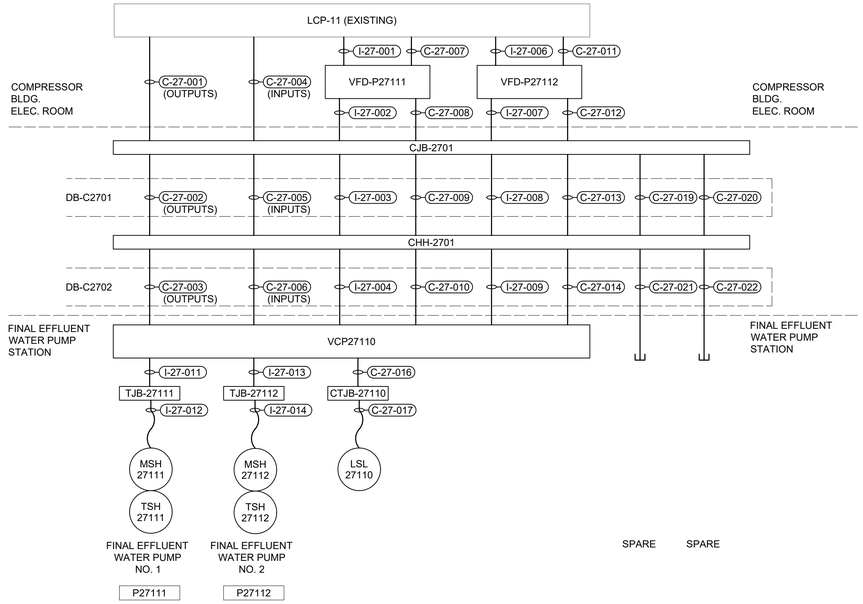
Autodesk Docs://32307-007_Riverbend WTP Thermal Dryer Facility/32307-007-27-PWPS-E.rvt
3/4/2026 8:55:31 AM

CONDUIT No.	SIZE	FROM	TO	CONDUCTORS	REMARKS
P-27-001	2"	MCC-11 (EXISTING)	VFD-P27111	3-#2/0, #6GND	
P-27-002	2"	MCC-11 (EXISTING)	VFD-P27112	3-#2/0, #6GND	
P-27-003					
P-27-004	2-1/2"	VFD-P27111	PJB-2701	3/C#2/0, 3#4GND, VFD CABLE	P27111
P-27-005	2-1/2"	PJB-2701	EHH-2701	3/C#2/0, 3#4GND, VFD CABLE	P27111
P-27-006	2-1/2"	EHH-2701	TJB-27111	3/C#2/0, 3#4GND, VFD CABLE	P27111
P-27-007	2-1/2"	TJB-27111	P27111	MANUFACTURER SUPPLIED CABLE	
P-27-008					
P-27-009	2-1/2"	VFD-P27112	PJB-2701	3/C#2/0, 3#4GND, VFD CABLE	P27112
P-27-010	2-1/2"	PJB-2701	EHH-2701	3/C#2/0, 3#4GND, VFD CABLE	P27112
P-27-011	2-1/2"	EHH-2701	TJB-27112	3/C#2/0, 3#4GND, VFD CABLE	P27112
P-27-012	2-1/2"	TJB-27112	P27112	MANUFACTURER SUPPLIED CABLE	
P-27-013					
P-27-014	2"	LP-11 (EX)	PJB-2701	8#8, #8GND	
P-27-015	2"	PJB-2701	EHH-2701	8#8, #8GND	
P-27-016	2"	EHH-2701	PJB-27110	8#8, #8GND	
P-27-017	3/4"	PJB-27110	RECP - AREA 27 EQUIPMENT RACK	2#8, #8GND	
P-27-018	3/4"	PJB-27110	LIGHTING	2#8, #8GND	VIA DSW
P-27-019	3/4"	PJB-27110	VCP27110	2#8, #8GND	
P-27-020	3/4"	PJB-27110	RECP - SUMP PUMP SP27113	2#8, #8GND	
P-27-021	2-1/2"	PJB-2701	EHH-2701	EMPTY W/ PULLSTRING	SPARE
P-27-022	2-1/2"	EHH-2701	CONDUIT STUB UP	EMPTY W/ PULLSTRING	SPARE
P-27-023					
P-27-024	3/4"	LP-11	PJB-2701	2#10, #10GND	
P-27-025	1"	PJB-2701	EHH-2701	2#10, #10GND	
P-27-026	3/4"	EHH-2701	RECEPTACLE AT EHH/CHH-2701	2#10, #10GND	FOR PORTABLE SUMP PUMP
P-27-027					
P-27-028	2"	PJB-2701	EHH-2701	EMPTY W/ PULLSTRING	SPARE
P-27-029	2"	EHH-2701	CONDUIT STUB UP	EMPTY W/ PULLSTRING	SPARE
P-27-030					



FINAL EFFLUENT WATER PUMP STATION
POWER BLOCK DIAGRAM

CONDUIT No.	SIZE	FROM	TO	CONDUCTORS	REMARKS
C-27-001	3/4"	LCP-11 (EXISTING)	CJB-2701	4#14, #14GND	LCP-11 OUTPUTS
C-27-002	1"	CJB-2701	CHH-2701	4#14, #14GND	LCP-11 OUTPUTS
C-27-003	1"	CHH-2701	VCP27110	4#14, #14GND	LCP-11 OUTPUTS
C-27-004	1-1/2"	LCP-11 (EXISTING)	CJB-2701	20#14, #14GND	LCP-11 INPUTS
C-27-005	1-1/2"	CJB-2701	CHH-2701	20#14, #14GND	LCP-11 INPUTS
C-27-006	1-1/2"	CHH-2701	VCP27110	20#14, #14GND	LCP-11 INPUTS
C-27-007	3/4"	LCP-11 (EXISTING)	VFD-P27111	6#14, #14GND	
C-27-008	1-1/2"	VFD-P27111	CJB-2701	16#14, #14GND	VCP27110
C-27-009	1-1/2"	CJB-2701	CHH-2701	16#14, #14GND	VCP27110
C-27-010	1-1/2"	CHH-2701	VCP27110	16#14, #14GND	
C-27-011	3/4"	LCP-11 (EXISTING)	VFD-P27112	6#14, #14GND	
C-27-012	1-1/2"	VFD-P27112	CJB-2701	16#14, #14GND	VCP27110
C-27-013	1-1/2"	CJB-2701	CHH-2701	16#14, #14GND	VCP27110
C-27-014	1-1/2"	CHH-2701	VCP27110	16#14, #14GND	
C-27-015					
C-27-016	3/4"	VCP27110	CTJB-27110	2#14, #14GND	
C-27-017	1"	CTJB-27110	LSL-27110	MANUFACTURER SUPPLIED CABLE	
C-27-018					
C-27-019	2"	CJB-2701	CHH-2701	EMPTY W/ PULLSTRING	SPARE
C-27-020	2"	CJB-2701	CHH-2701	EMPTY W/ PULLSTRING	SPARE
C-27-021	2"	CHH-2701	CONDUIT STUB UP	EMPTY W/ PULLSTRING	SPARE
C-27-022	2"	CHH-2701	CONDUIT STUB UP	EMPTY W/ PULLSTRING	SPARE
C-27-023					



FINAL EFFLUENT WATER PUMP STATION
CONTROL BLOCK DIAGRAM

CONDUIT No.	SIZE	FROM	TO	CONDUCTORS	REMARKS
I-27-001	1"	LCP-11 (EXISTING)	VFD-P27111	2-2/C#16TSH	
I-27-002	1-1/2"	VFD-P27111	CJB-2701	2/C#16TSH	VCP-27110
I-27-003	1-1/2"	CJB-2701	CHH-2701	2/C#16TSH	VCP-27110
I-27-004	1-1/2"	CHH-2701	VCP27110	2/C#16TSH	
I-27-005					
I-27-006	1"	LCP-11 (EXISTING)	VFD-P27112	2-2/C#16TSH	
I-27-007	1-1/2"	VFD-P27112	CJB-2701	2/C#16TSH	VCP-27110
I-27-008	1-1/2"	CJB-2701	CHH-2701	2/C#16TSH	VCP-27110
I-27-009	1-1/2"	CHH-2701	VCP27110	2/C#16TSH	
I-27-010					
I-27-011	1"	VCP27110	TJB-27111	2-2/C#16TSH	
I-27-012	2-1/2"	TJB-27111	MSH-27111/TSH-27111	MANUFACTURER SUPPLIED CABLE	
I-27-013	1"	VCP27110	TJB-27112	2-2/C#16TSH	
I-27-014	2-1/2"	TJB-27112	MSH-27112/TSH-27112	MANUFACTURER SUPPLIED CABLE	
I-27-015					

NOTES:

1. SEGREGATE CONTROL CIRCUITS AT DIFFERENT VOLTAGE LEVELS (120VAC OR 24VDC) IN CONDUIT RACEWAYS AND JUNCTION BOXES. PROVIDE BOXES WITH INTERNAL BARRIER OR SEPARATE BOXES AS REQUIRED.
2. ADHERE TO CABLE MANUFACTURER'S INSTRUCTIONS FOR VFD CABLE INSTALLATION.

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER

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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

FINAL EFFLUENT WATER PUMP STATION ELECTRICAL BLOCK DIAGRAMS AND CONDUIT AND WIRE SCHEDULES

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 27-E-002

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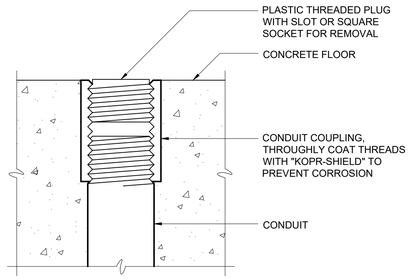
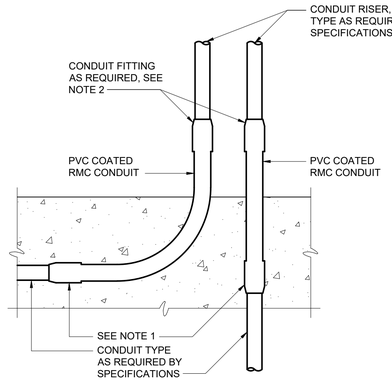


FLOOR STUB-UP FOR FUTURE CONDUIT

E-26-0101

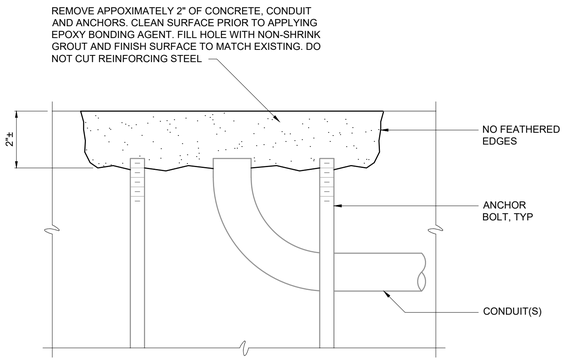


NOTES:

1. FOR ENCASED PVC CONDUIT USE PVC TERMINAL ADAPTER. FOR ALL OTHER CONDUIT TYPES, USE PVC COATED RMC COUPLINGS.
2. IF ANY THREADS OF THE PVC COATED RMC CONDUIT ARE EXPOSED AFTER INSTALLATION OF THE CONDUIT FITTING, THE CONDUIT FITTING SHALL BE PVC COATED TYPE WITH APPROPRIATE PVC SKIRTS. IF THE THREADS OF THE PVC COATED RMC CONDUIT ARE PROPERLY CUT SO THAT THEY ARE NOT EXPOSED AFTER INSTALLATION OF THE CONDUIT FITTING, THE CONDUIT MATERIAL SHALL BE AS REQUIRED BY THE SPECIFICATIONS, BASED ON THE MATERIAL OF THE CONDUIT RISER.

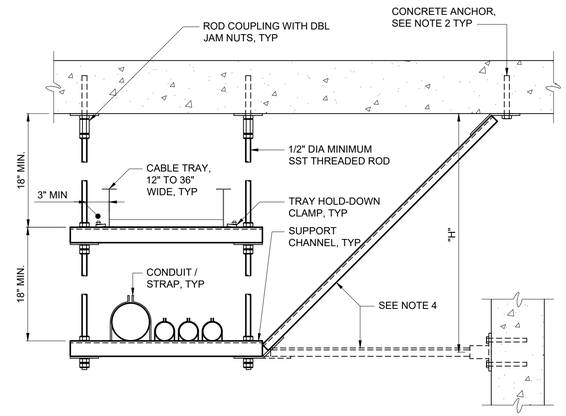
CONDUIT EXITING CONCRETE ENCASEMENT

E-26-0102



SEALING ABANDONED CONDUIT AND ANCHOR BOLTS

E-26-0103

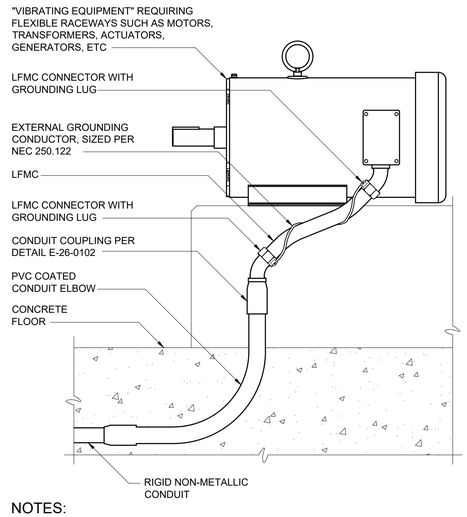


NOTES:

1. SPACE SUPPORTS AT 5'-0" MAXIMUM. HANGER SPACING SHALL BE BASED ON MAXIMUM LOAD.
2. SEE SECTION 05 05 23, METAL FASTENING, FOR CONCRETE ANCHOR REQUIREMENTS.
3. REFER TO AREA DESIGNATION DRAWINGS AND SPECIFICATIONS FOR REQUIRED MATERIALS OF CONSTRUCTION.
4. PREFORMED BRACING CHANNEL AT 30'-0" SPACING MAX. BRACE AT INTERMEDIATE LEVEL WHEN "H" DIMENSION EXCEEDS 6'-0".

SUSPENDED RACEWAY SUPPORT RACK

E-26-0201

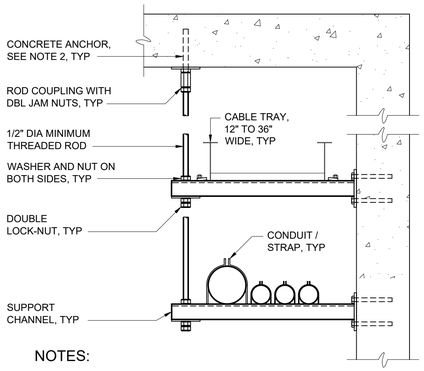


NOTES:

1. WHERE NON-METALLIC CONDUIT TRANSITIONS TO RIGID METALLIC CONDUIT AND / OR LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT, (LFMC), TO FEED VIBRATING TYPE LOADS, THE CONTRACTOR SHALL FURNISH AND INSTALL AN EXTERNAL BARE COPPER GROUNDING CONDUCTOR AND APPROVED GROUNDING LFMC CONNECTORS TO ENSURE GROUND CONTINUITY TO THE RIGID METALLIC CONDUIT AS SHOWN. THE GROUNDING CONDUCTOR SHALL BE SIZED ACCORDING TO NEC 250.122 AND BE NEATLY WRAPPED AROUND LFMC AS SHOWN. LFMC INSTALLED IN THIS MANNER CANNOT BE USED FOR A CONTINUOUS GROUND PATH PER NEC 350.60.

LFMC CONDUIT GROUND STRAP

E-26-0104

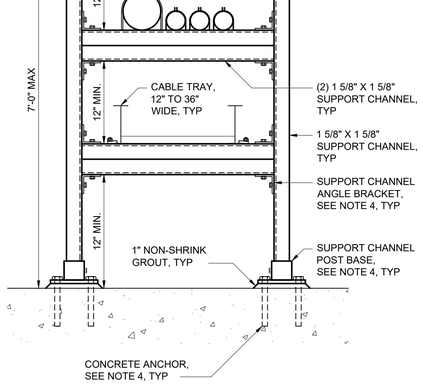


NOTES:

1. SPACE SUPPORTS AT 5'-0" MAXIMUM. HANGER SPACING SHALL BE BASED ON MAXIMUM LOAD.
2. SEE SECTION 05 05 23, METAL FASTENING, FOR CONCRETE ANCHOR REQUIREMENTS.
3. REFER TO AREA DESIGNATION DRAWINGS AND SPECIFICATIONS FOR REQUIRED MATERIALS OF CONSTRUCTION.

WALL MOUNTED RACEWAY SUPPORT RACK

E-26-0202

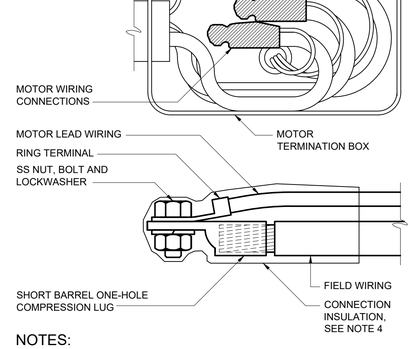


NOTES:

1. CONDUIT SUPPORT RACK SPACING SHALL BE BASED ON MAXIMUM SPAN ALLOWABLE FOR ANY INDIVIDUAL PIPE AND FOR MAXIMUM LOAD.
2. X-BRACING REQUIRED AT 30'-0" OC.
4. REFER TO AREA DESIGNATION DRAWINGS AND SPECIFICATIONS FOR REQUIRED MATERIALS OF CONSTRUCTION.
5. SEE SECTION 05 05 23, METAL FASTENING, FOR CONCRETE ANCHOR REQUIREMENTS.

FREESTANDING RACEWAY SUPPORT RACK

E-26-0203



NOTES:

1. EQUIPMENT GROUNDING CONDUCTOR LUG SHALL BE ATTACHED WITH NUT AND LOCKWASHER TO THE MOTOR GROUNDING STUD. WHERE PROVIDED, FACTORY INSTALLED EQUIPMENT GROUNDING CONDUCTOR LUGS ARE ACCEPTABLE IN LIEU OF THE FIELD INSTALLED EQUIPMENT GROUNDING CONDUCTOR LUG.
2. RING TERMINALS ON MOTOR LEADS SHALL BE FACTORY INSTALLED BY THE MOTOR MANUFACTURER.
3. INSTALL SHORT BARREL COMPRESSION CONNECTOR ON FIELD WIRING WITH MANUFACTURER'S RECOMMENDED COMPRESSION TOOL AND CRIMPING DIE. CONNECTORS SHALL HAVE SMOOTHLY ROUNDED EDGES.
4. HEAT SHRINK OR COLD APPLIED CONNECTOR INSULATION LISTED FOR THE PURPOSE AND AS SPECIFIED.

LOW VOLTAGE MOTOR TERMINATION

E-26-0301

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0, 1/2", 1")

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER

CONFORMED DRAWING

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ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

STANDARD DETAILS
ELECTRICAL
SHEET 1

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 99-ED-001

File: C:\USERS\DELAM\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND VFP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\99-ED-001 Saved by DELAM Save date: 3/4/2026 7:30 AM
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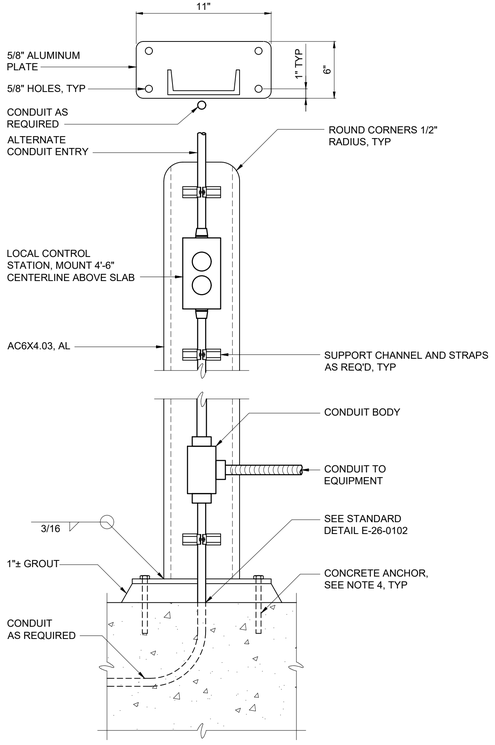


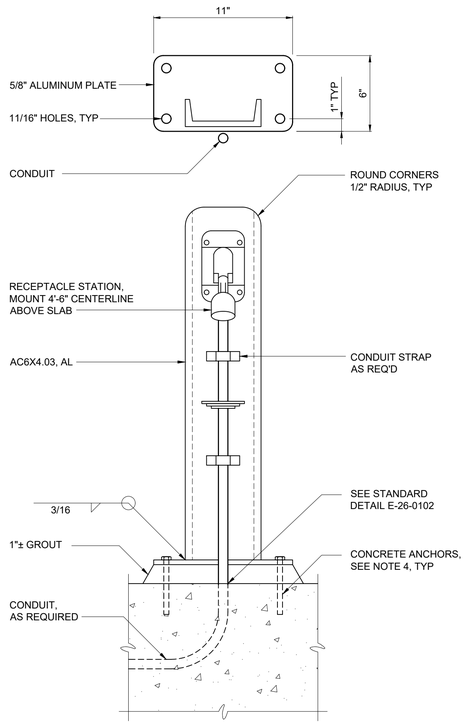
ELEVATION

NOTES:

1. COAT ALUMINUM SURFACES IN CONTACT WITH CONCRETE PER SPECIFICATIONS.
2. CONSTRUCT 1'-3" DIAMETER X 2'-6" DEEP FOUNDATION WHERE MOUNTING SURFACE IS NOT AVAILABLE.
3. USE SST WASHERS, NUTS AND BOLTS FOR MOUNTING DEVICES.
4. FOR EXTERIOR LOCATIONS, CONCRETE ANCHORS SHALL BE 1/2" SST ADHESIVE ANCHORS WITH 4 1/2" EMBEDMENT, 1/2" WEDGE ANCHORS WITH 2" EMBEDMENT, OR 1/2" SCREW ANCHORS WITH 3" EMBEDMENT. SEE SECTION 05 05 23, METAL FASTENING, FOR CONCRETE ANCHOR REQUIREMENTS.

TYPICAL LOCAL CONTROL STATION

E-26-0401



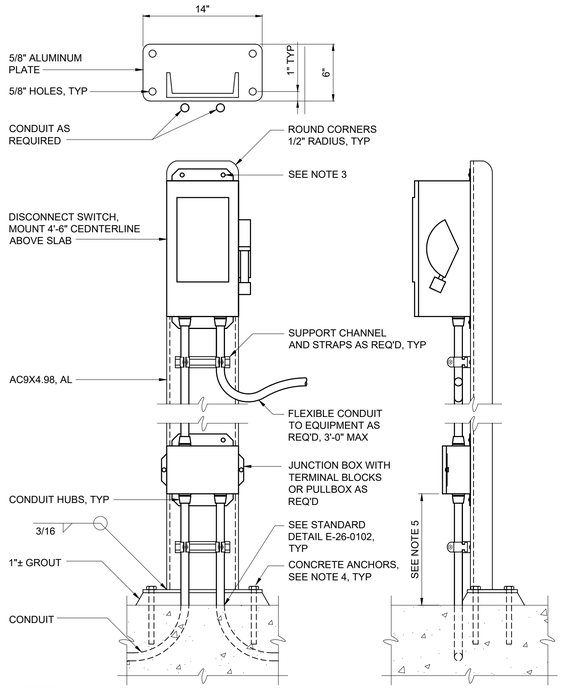
ELEVATION

NOTES:

1. COAT ALUMINUM SURFACES IN CONTACT WITH CONCRETE PER SPECIFICATIONS.
2. CONSTRUCT 1'-3" DIAMETER X 2'-6" DEEP CONCRETE FOUNDATION WHERE NO CONCRETE SLAB EXISTS.
3. USE SST WASHERS, NUTS AND BOLTS FOR MOUNTING DEVICES.
4. FOR EXTERIOR LOCATIONS, CONCRETE ANCHORS SHALL BE 1/2" SST ADHESIVE ANCHORS WITH 4 1/2" EMBEDMENT. FOR INTERIOR LOCATION, CONCRETE ANCHORS SHALL BE EITHER 1/2" SST ADHESIVE ANCHORS WITH 4 1/2" EMBEDMENT, 1/2" WEDGE ANCHORS WITH 2" EMBEDMENT, OR 1/2" SCREW ANCHORS WITH 3" EMBEDMENT. SEE SECTION 05 05 23, METAL FASTENING, FOR CONCRETE ANCHOR REQUIREMENTS.

LARGE RECEPTACLE SUPPORT AND MOUNTING

E-26-0402

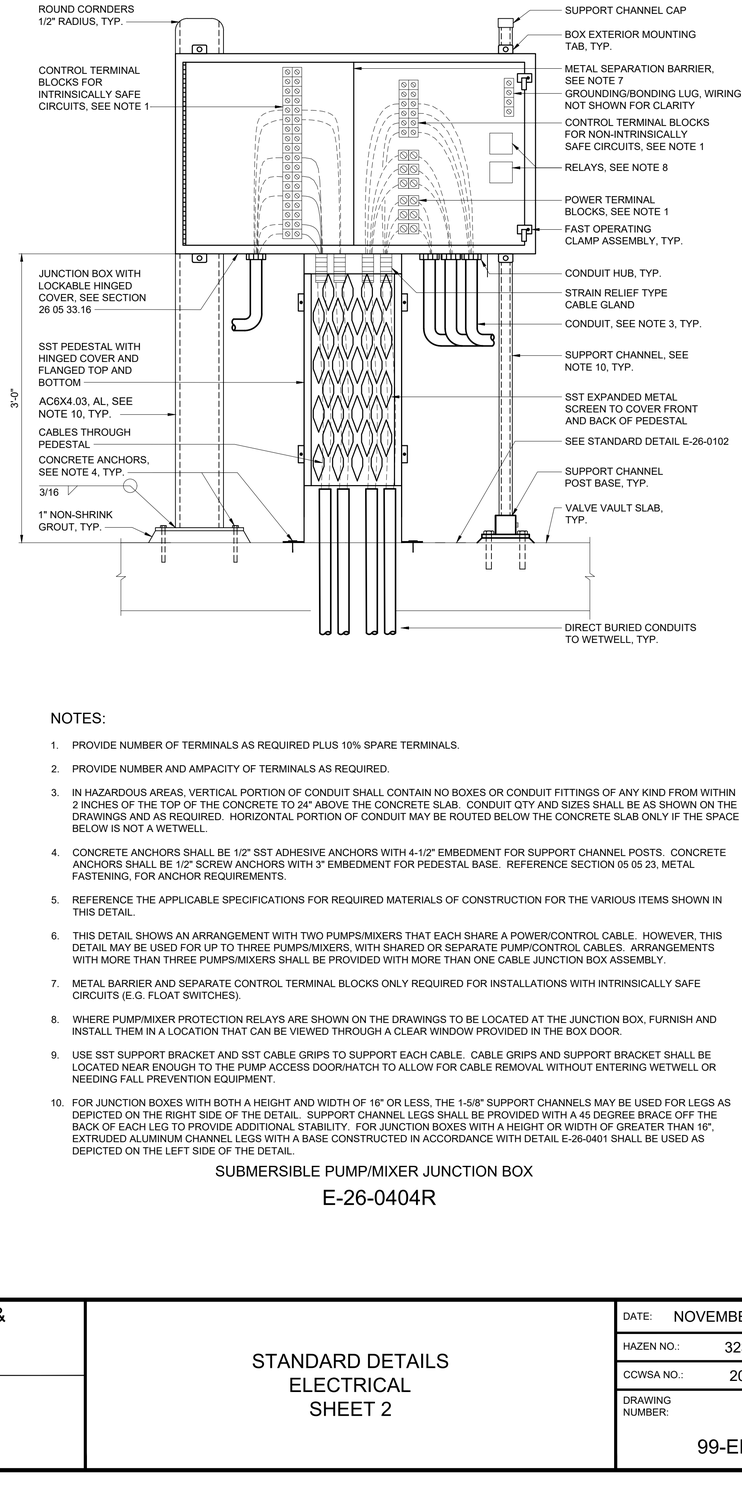


NOTES:

1. COAT ALUMINUM SURFACES IN CONTACT WITH CONCRETE PER SPECIFICATIONS.
2. CONSTRUCT 1'-6" DIAMETER X 2'-6" DEEP FOUNDATION WHERE MOUNTING SURFACE IS NOT AVAILABLE.
3. USE SST WASHERS, LOCKWASHERS, NUTS AND BOLTS FOR MOUNTING EQUIPMENT AND SUPPORTS TO CHANNEL. DRILL EQUIPMENT MOUNTING TABS AS NECESSARY TO COORDINATE WITH CHANNEL WIDTH.
4. FOR EXTERIOR LOCATIONS, CONCRETE ANCHORS SHALL BE 1/2" SST ADHESIVE ANCHORS WITH 4 1/2" EMBEDMENT. FOR INTERIOR LOCATIONS, CONCRETE ANCHORS SHALL BE EITHER 1/2" SST ADHESIVE ANCHORS WITH 4 1/2" EMBEDMENT, 1/2" WEDGE ANCHORS WITH 2" EMBEDMENT, OR 1/2" SCREW ANCHORS WITH 3" EMBEDMENT. SEE SECTION 05 05 23, METAL FASTENING, FOR CONCRETE ANCHOR REQUIREMENTS.
5. COORDINATE MOUNTING HEIGHT ABOVE CONCRETE WITH AREA CLASSIFICATION REQUIREMENTS WHERE APPLICABLE.

30 AND 60 AMP DISCONNECT SWITCH

E-26-0403



NOTES:

1. PROVIDE NUMBER OF TERMINALS AS REQUIRED PLUS 10% SPARE TERMINALS.
2. PROVIDE NUMBER AND AMPACITY OF TERMINALS AS REQUIRED.
3. IN HAZARDOUS AREAS, VERTICAL PORTION OF CONDUIT SHALL CONTAIN NO BOXES OR CONDUIT FITTINGS OF ANY KIND FROM WITHIN 2 INCHES OF THE TOP OF THE CONCRETE TO 24" ABOVE THE CONCRETE SLAB. CONDUIT QTY AND SIZES SHALL BE AS SHOWN ON THE DRAWINGS AND AS REQUIRED. HORIZONTAL PORTION OF CONDUIT MAY BE ROUTED BELOW THE CONCRETE SLAB ONLY IF THE SPACE BELOW IS NOT A WETWELL.
4. CONCRETE ANCHORS SHALL BE 1/2" SST ADHESIVE ANCHORS WITH 4-1/2" EMBEDMENT FOR SUPPORT CHANNEL POSTS. CONCRETE ANCHORS SHALL BE 1/2" SCREW ANCHORS WITH 3" EMBEDMENT FOR PEDESTAL BASE. REFERENCE SECTION 05 05 23, METAL FASTENING, FOR ANCHOR REQUIREMENTS.
5. REFERENCE THE APPLICABLE SPECIFICATIONS FOR REQUIRED MATERIALS OF CONSTRUCTION FOR THE VARIOUS ITEMS SHOWN IN THIS DETAIL.
6. THIS DETAIL SHOWS AN ARRANGEMENT WITH TWO PUMPS/MIXERS THAT EACH SHARE A POWER/CONTROL CABLE. HOWEVER, THIS DETAIL MAY BE USED FOR UP TO THREE PUMPS/MIXERS, WITH SHARED OR SEPARATE PUMP/CONTROL CABLES. ARRANGEMENTS WITH MORE THAN THREE PUMPS/MIXERS SHALL BE PROVIDED WITH MORE THAN ONE CABLE JUNCTION BOX ASSEMBLY.
7. METAL BARRIER AND SEPARATE CONTROL TERMINAL BLOCKS ONLY REQUIRED FOR INSTALLATIONS WITH INTRINSICALLY SAFE CIRCUITS (E.G. FLOAT SWITCHES).
8. WHERE PUMP/MIXER PROTECTION RELAYS ARE SHOWN ON THE DRAWINGS TO BE LOCATED AT THE JUNCTION BOX, FURNISH AND INSTALL THEM IN A LOCATION THAT CAN BE VIEWED THROUGH A CLEAR WINDOW PROVIDED IN THE BOX DOOR.
9. USE SST SUPPORT BRACKET AND SST CABLE GRIPS TO SUPPORT EACH CABLE. CABLE GRIPS AND SUPPORT BRACKET SHALL BE LOCATED NEAR ENOUGH TO THE PUMP ACCESS DOOR/HATCH TO ALLOW FOR CABLE REMOVAL WITHOUT ENTERING WETWELL OR NEEDING FALL PREVENTION EQUIPMENT.
10. FOR JUNCTION BOXES WITH BOTH A HEIGHT AND WIDTH OF 16" OR LESS, THE 1-5/8" SUPPORT CHANNELS MAY BE USED FOR LEGS AS DEPICTED ON THE RIGHT SIDE OF THE DETAIL. SUPPORT CHANNEL LEGS SHALL BE PROVIDED WITH A 45 DEGREE BRACE OFF THE BACK OF EACH LEG TO PROVIDE ADDITIONAL STABILITY. FOR JUNCTION BOXES WITH A HEIGHT OR WIDTH OF GREATER THAN 16", EXTRUDED ALUMINUM CHANNEL LEGS WITH A BASE CONSTRUCTED IN ACCORDANCE WITH DETAIL E-26-0401 SHALL BE USED AS DEPICTED ON THE LEFT SIDE OF THE DETAIL.

SUBMERSIBLE PUMP/MIXER JUNCTION BOX

E-26-0404R

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY VESSELA KANCHEVA, P.E. No. 35253 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

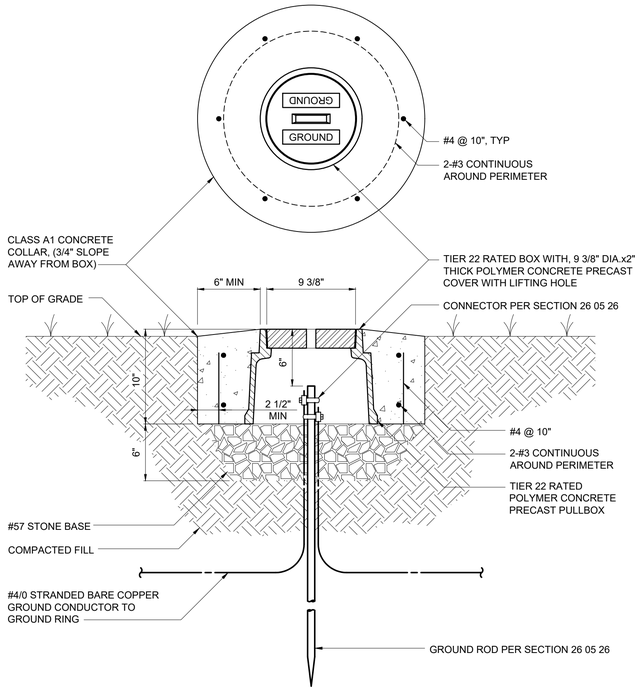
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

STANDARD DETAILS
ELECTRICAL
SHEET 2

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 99-ED-002

File: C:\USERS\DELAM\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\99-ED-002 Saved by DELAM Save date: 3/4/2026 7:30 AM
PLOT DATE: 3/4/2026 8:43 AM BY: DELAM

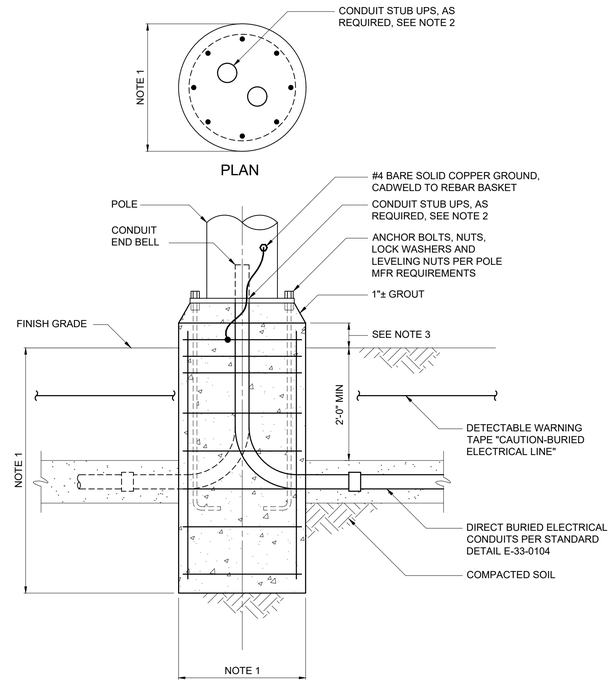


NOTES:

1. PRECAST PULLBOX AND COVER SHALL BE OLDCASTLE PART NUMBER 09101187, OR APPROVED EQUAL.

GROUND ROD TEST WELL

E-26-0501



NOTES:

1. DIAMETER, DEPTH AND REINFORCEMENT SHALL BE DETERMINED BY POLE MANUFACTURER IN ACCORDANCE WITH SECTION 26 50 00. LOADING SHALL BE IN ACCORDANCE WITH SECTION 26 50 00.
2. CONTRACTOR SHALL CAREFULLY COORDINATE LOCATION AND QUANTITY OF CONDUITS IN THE BASE SO THAT WHEN POLE IS INSTALLED, IT WILL FIT OVER THE CONDUITS.
3. PROJECTED HEIGHT ABOVE GRADE SHALL BE AS DESCRIBED IN THE POLE SCHEDULE IN 26 50 00.

POLE-MOUNTED LIGHTING FIXTURE BASE

E-26-0601

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

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Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

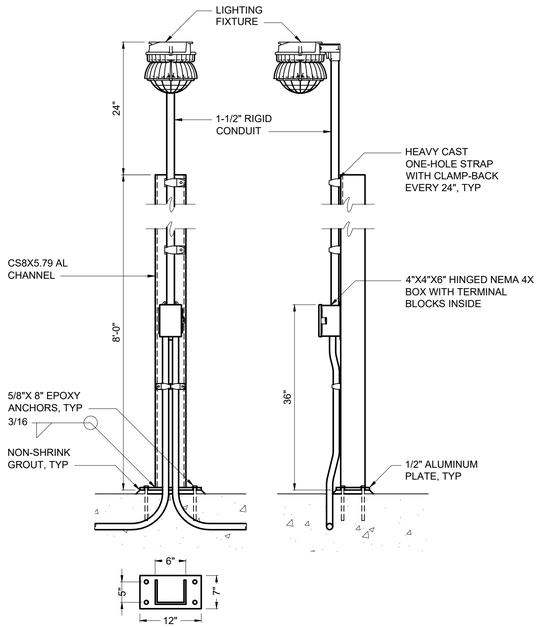
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

STANDARD DETAILS
ELECTRICAL
SHEET 3

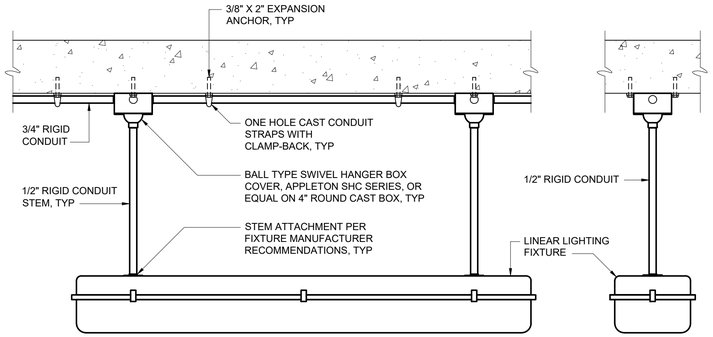
DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 99-ED-003

File: C:\USERS\DELAM\DC\ACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\99-ED-003 Saved by DELAM Save date: 3/4/2026 7:30 AM
PLOT DATE: 3/4/2026 8:43 AM BY: DELAM



STANCHION MOUNTED LIGHT FIXTURE (CHANNEL BASE)

E-26-0603

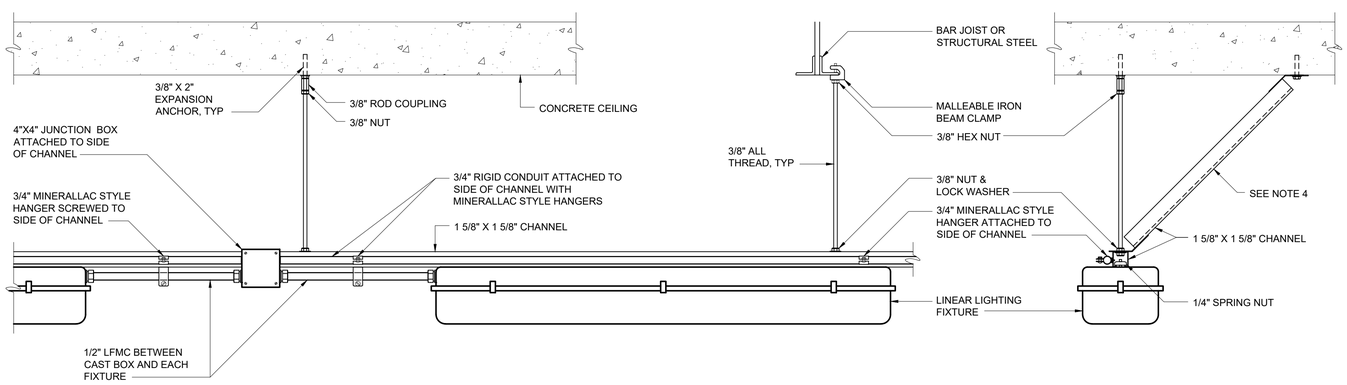


NOTES:

1. ADDITIONAL SEISMIC SUPPORTS MAY BE REQUIRED, SEE CODE SUMMARY DRAWING AND DRAWING E1 FOR SEISMIC CLASSIFICATIONS.
2. CONDUIT TYPE AND MATERIALS OF CONSTRUCTION FOR SUPPORTS AND HARDWARE SHALL BE AS REQUIRED FOR THE AREA IN WHICH THE FIXTURE IS INSTALLED AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE SPECIFICATIONS.
3. REFER TO AREA DESIGNATION DRAWINGS AND SPECIFICATIONS FOR REQUIRED MATERIALS OF CONSTRUCTION.

INDIVIDUAL PENDANT MOUNTED LINEAR FIXTURE

E-26-0605



NOTES:

1. ADDITIONAL SEISMIC SUPPORTS MAY BE REQUIRED, SEE CODE SUMMARY DRAWING AND DRAWING E1 FOR SEISMIC CLASSIFICATIONS.
2. CONDUIT TYPE AND MATERIALS OF CONSTRUCTION FOR SUPPORTS AND HARDWARE SHALL BE AS REQUIRED FOR THE AREA IN WHICH THE FIXTURE IS INSTALLED AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE SPECIFICATIONS.
3. REFER TO AREA DESIGNATION DRAWINGS AND SPECIFICATIONS FOR REQUIRED MATERIALS OF CONSTRUCTION.
4. 45 DEGREE ANGLE BRACES SHALL BE INSTALLED TO PREVENT LATERAL MOVEMENT OF FIXTURE SUPPORTS. BRACES SHALL BE INSTALLED AT 8' INTERVALS ALONG ENTIRE LENGTH OF SUPPORT CHANNEL. TRANSVERSE MOVEMENT SHALL BE PREVENTED IN SIMILAR FASHION AT EACH END OF THE SUPPORT CHANNEL.

SUPPORT CHANNEL MOUNTED LINEAR FIXTURES

E-26-0606

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	V. KANCHEVA
DRAWN BY:	D. ELAM
CHECKED BY:	N. MEYER

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

CONFORMED DRAWING

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Hazen
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ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

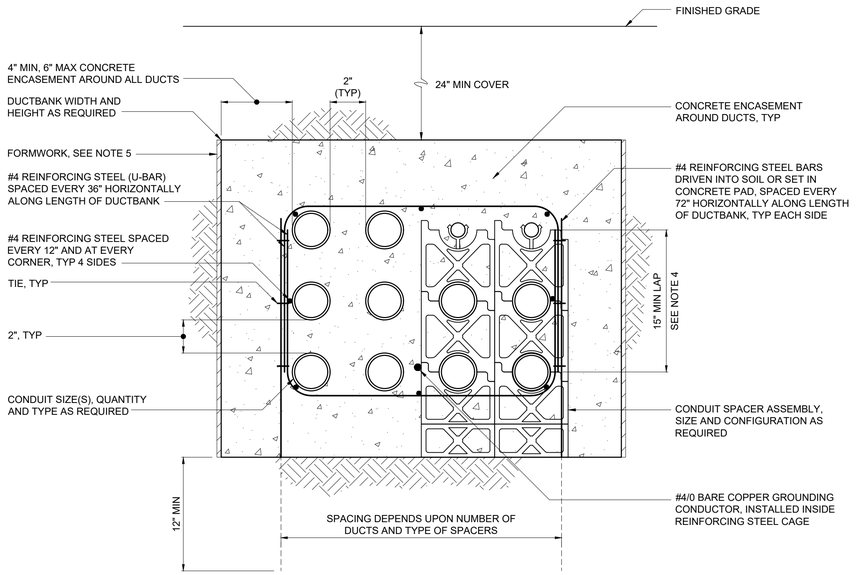
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

STANDARD DETAILS
ELECTRICAL
SHEET 4

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA NO.:	2022_007
DRAWING NUMBER:	99-ED-004

File: C:\USERS\DELAM\DC\ACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\99-ED-004 Saved by DELAM Save date: 3/4/2026 7:30 AM
PLOT DATE: 3/4/2026 8:43 AM BY: DELAM



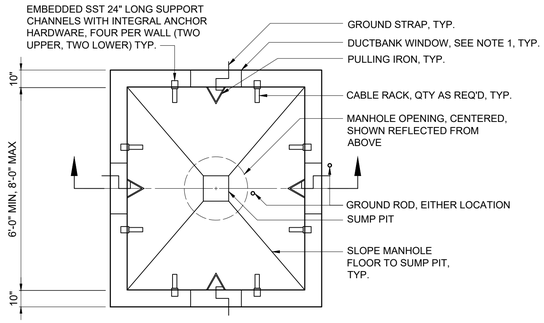
NOTES:

1. CONCRETE SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SPECIFICATION SECTION 03 30 00.
2. REINFORCING STEEL AND TIES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SPECIFICATION SECTION 03 21 00. OVERLAP FOR REINFORCING STEEL SPLICES ALONG THE DUCTBANK LENGTH SHALL BE 15", MINIMUM.
3. CONDUIT SPACERS ARE REQUIRED IN ACCORDANCE WITH SPECIFICATION SECTION 33 71 19. HORIZONTAL SPACING OF CONDUIT SPACER ASSEMBLIES ALONG LENGTH OF DUCTBANK SHALL BE AS SHOWN IN THE TABLE.
4. FOR DUCTBANKS LESS THAN 15" IN HEIGHT, THE LAP SHALL BE THE HEIGHT OF THE DUCTBANK.
5. IN POOR SOIL CONDITIONS, DUCTBANKS SHALL BE FORMED WITH FORMING MATERIALS TO MAINTAIN 4" MINIMUM ENCASEMENT. WHERE SOIL CONDITIONS PERMIT AND THE EXCAVATION IS MAINTAINED FOR A 4" MINIMUM TO 10" MAXIMUM ENCASEMENT, THE FORMWORK CAN BE OMITTED.

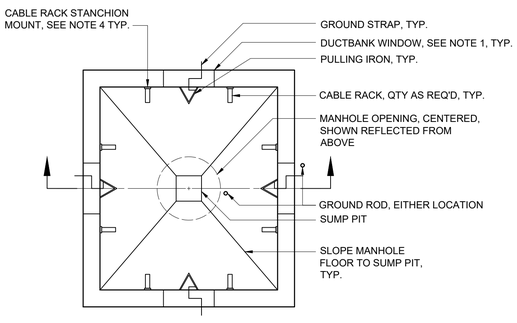
MAX SPACING BETWEEN CONDUIT SPACER ASSEMBLIES	
CONDUIT SIZE	SPACING
1"	3 FT
1 1/4-2"	5 FT
2 1/2-3"	6 FT
3 1/2-5"	7 FT
6"	8 FT

TYPICAL DUCTBANK SECTION

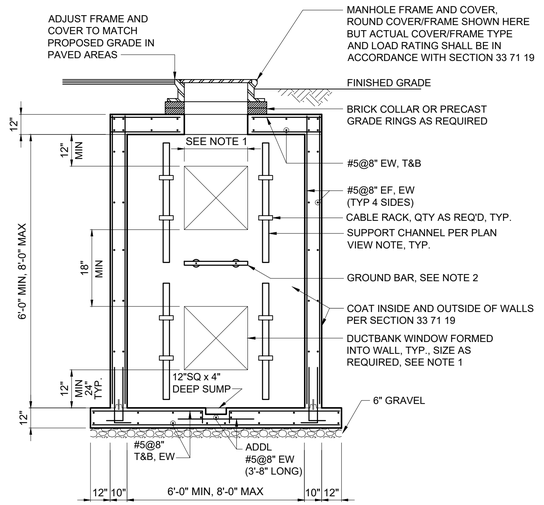
E-33-0101



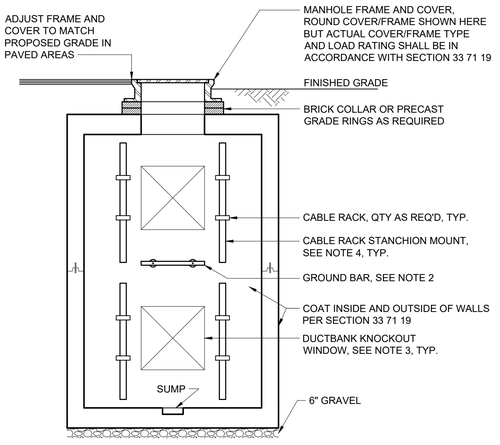
CAST-IN-PLACE ELECTRICAL MANHOLE - PLAN VIEW



PRECAST ELECTRICAL MANHOLE - PLAN VIEW



CAST-IN-PLACE ELECTRICAL MANHOLE - SECTION VIEW



PRECAST ELECTRICAL MANHOLE - SECTION VIEW

NOTES:

1. FOR CAST-IN-PLACE, THE DUCTBANK WINDOW WIDTH SHALL BE LIMITED TO ONE-THIRD (1/3) OF THE WALL WIDTH (E.G. 2'-0" FOR A 6'-0" WALL). PROVIDE AN UPPER AND LOWER WINDOW IN EACH WALL
2. GROUND BAR SHALL BE AS SPECIFIED IN SECTION 33 71 19. CONNECT ALL DUCTBANK BARE COPPER GROUNDING ELECTRODE CONDUCTORS TO GROUND BAR. CONNECT GROUND ROD TO GROUND BAR WITH #4/0 BCC, AND MANHOLE GROUND STRAPS TO GROUND BAR WITH #6 BCC. CONNECTIONS TO GROUND BAR NOT SHOWN HERE FOR CLARITY.
3. FOR PRECAST, PROVIDE AN UPPER AND LOWER KNOCK OUT WINDOW IN EACH WALL. FOR KNOCK OUT WINDOWS NOT USED UNDER THIS CONTRACT, THE WINDOW SHALL REMAIN IN PLACE FOR FUTURE USE.
4. FOR PRECAST, PROVIDE QUANTITY OF FOUR MINIMUM 24" TALL STANCHION MOUNTS PER MANHOLE WALL AS SHOWN.
5. FOR PRECAST, MANHOLE WALL/CEILING/FLOOR THICKNESS SHALL BE DETERMINED BY THE MANHOLE MANUFACTURER. MULTIPLE SECTIONS MAY BE USED AS REQUIRED. SUMP PIT SHALL BE EITHER SOLID OR OPEN BOTTOM AS SPECIFIED IN SECTION 33 71 19.

PRECAST AND CAST-IN-PLACE ELECTRICAL MANHOLES

E-33-0102

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0, 1/2", 1")

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: V. KANCHEVA
DRAWN BY: D. ELAM
CHECKED BY: N. MEYER

CONFORMED DRAWING

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Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

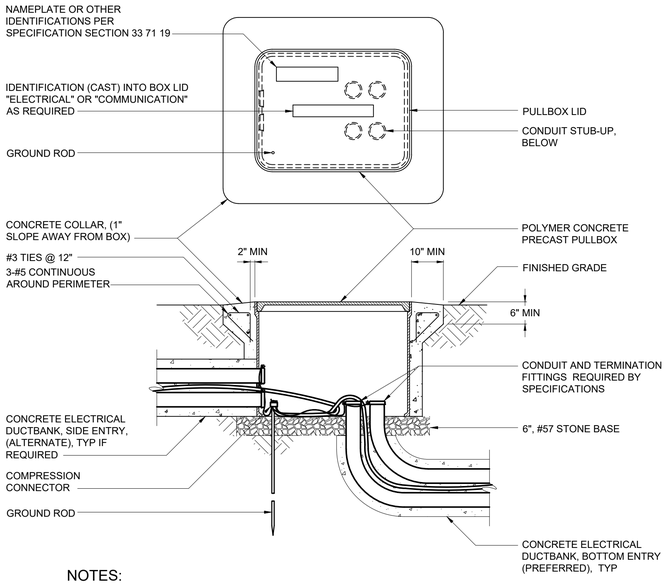
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

STANDARD DETAILS
ELECTRICAL
SHEET 5

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 99-ED-005

File: C:\USERS\DELAM\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\99-ED-005 Saved by DELAM Save date: 3/4/2026 7:31 AM
PLOT DATE: 3/4/2026 8:43 AM BY: DELAM

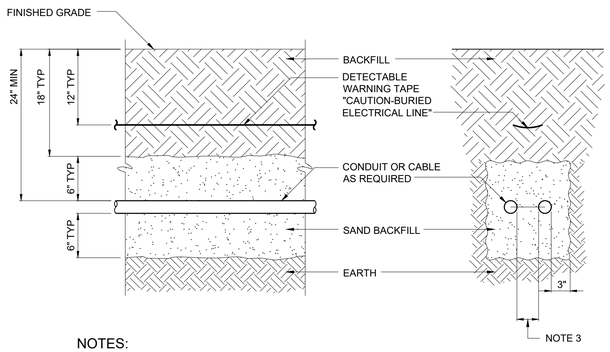


NOTES:

1. FOR SIDE ENTRY, CONDUIT DUCTBANK SHALL ENTER PULLBOX AT LOWEST POINT.
2. GROUND CONDUCTORS WITHIN DUCTBANK SHALL BE BONDED TOGETHER AND TO GROUND ROD.
3. CONDUIT BONDING BUSHINGS (IF REQUIRED) SHALL BE BONDED TO GROUND ROD.
4. FOR SIDE ENTRY, CONDUIT SHALL ENTER IN INDIVIDUAL CIRCULAR HOLES APPROPRIATELY SIZED FOR THE CONDUIT. LARGE SINGLE RECTANGULAR OPENINGS FOR MULTIPLE CONDUITS ARE NOT ACCEPTABLE
5. DUCTBANK REINFORCING REBAR SHALL PENETRATE THE SIDEWALLS OF THE BOX NO LONGER THAN 1".

POLYMER CONCRETE ELECTRICAL HANDHOLE

E-33-0103

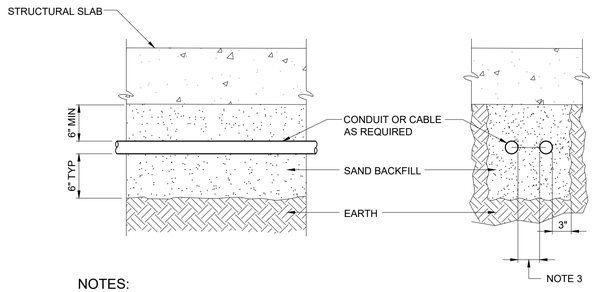


NOTES:

1. CONDUIT SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SPECIFICATION SECTION 26 05 33.13.
2. BACKFILL THAT CONTAINS LARGE ROCKS, PAVING MATERIALS, CINDERS, LARGE OR SHARPLY ANGULAR SUBSTANCES, OR CORROSIVE MATERIAL SHALL NOT BE USED.
3. MAINTAIN A MINIMUM OF 2" BETWEEN POWER, CONTROL, AND INSTRUMENTATION CONDUITS OR CONDUCTORS.

TYPICAL DIRECT BURIED CONDUIT & CABLE

E-33-0104

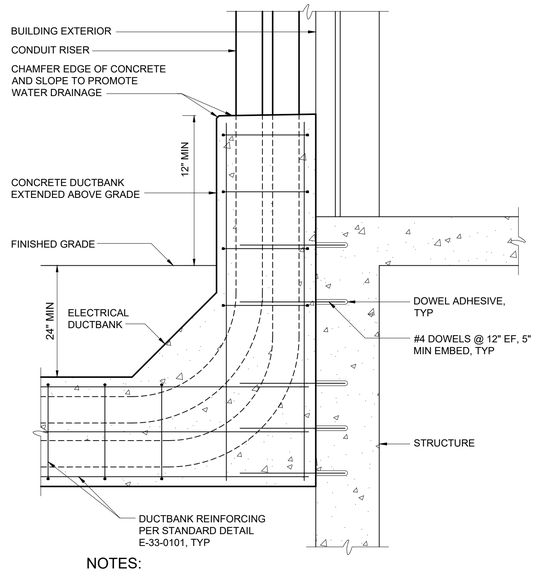


NOTES:

1. CONDUIT SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SPECIFICATION SECTION 26 05 33.13.
2. BACKFILL THAT CONTAINS LARGE ROCKS, PAVING MATERIALS, CINDERS, LARGE OR SHARPLY ANGULAR SUBSTANCES, OR CORROSIVE MATERIAL SHALL NOT BE USED.
3. MAINTAIN A MINIMUM OF 2" BETWEEN POWER, CONTROL, AND INSTRUMENTATION CONDUITS OR CONDUCTORS.

TYPICAL DIRECT BURIED UNDERSLAB CONDUIT & CABLE

E-33-0104R

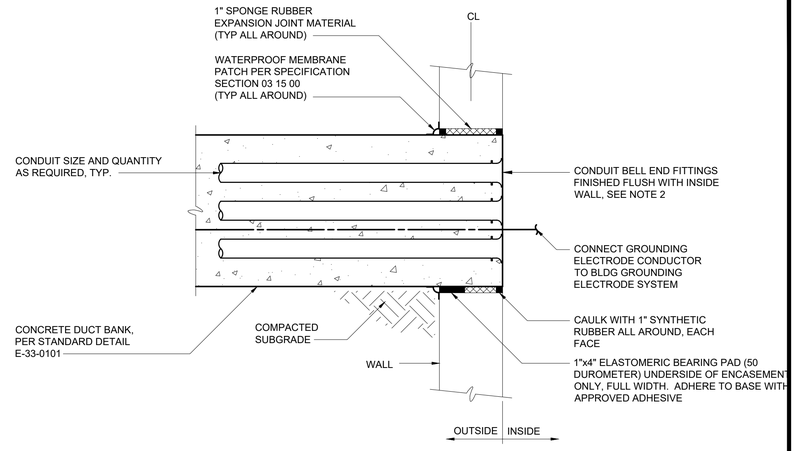


NOTES:

1. PROVIDE DOWEL ADHESIVE AS REQUIRED BY SPECIFICATION SECTION 03 21 00.

DUCTBANK ATTACHMENT TO STRUCTURE

E-33-0107

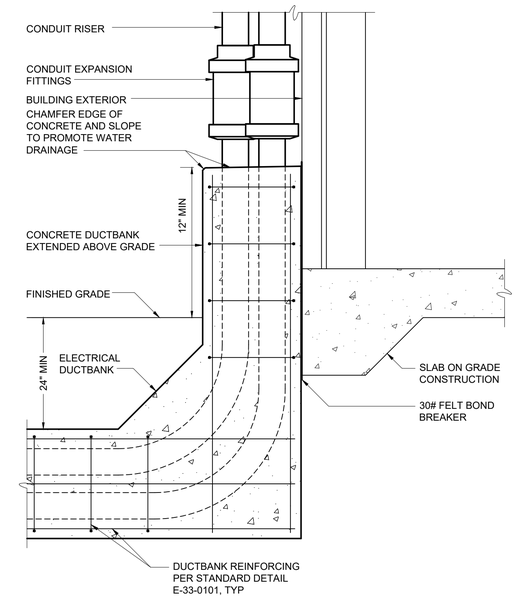


NOTES:

1. CUT-OUT IN WALL SHALL BE SMOOTH AND PLUM BUILT TO ACCOMMODATE THE REQUIRED CONCRETE DUCT BANK ENCASEMENT PLUS 1" ALL AROUND.
2. INSTALL CONDUIT INTERIOR SEALING AROUND CONDUCTORS IN ACCORDANCE WITH SECTION 26 05 33.13.

BELOW-GRADE DUCT BANK TERMINATION TO EXISTING MANHOLE

E-33-0106



DUCTBANK ABUTMENT (FLOATING) TO STRUCTURE

E-33-0108

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3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	V. KANCHEVA
DRAWN BY:	D. ELAM
CHECKED BY:	N. MEYER

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE — 0 1/2" 1"

CONFORMED DRAWING

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GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

STANDARD DETAILS
ELECTRICAL
SHEET 6

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA NO.:	2022_007
DRAWING NUMBER:	99-ED-006

File: C:\USERS\DELAM\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\ELEC\99-ED-006 Saved by DELAM Save date: 3/4/2026 7:31 AM
PLOT DATE: 3/4/2026 8:43 AM BY: DELAM

INSTRUMENT AND FUNCTION SYMBOLS

LOCATION AND ACCESSIBILITY	SHARED DISPLAY/SHARED CONTROL: PRIMARY CHOICE OR BASIC PROCESS CONTROL SYSTEM	SHARED DISPLAY/SHARED CONTROL: ALTERNATE CHOICE OR SAFETY INSTRUMENTED SYSTEM	COMPUTER SYSTEMS AND SOFTWARE	DISCRETE
- LOCATED IN FIELD - NOT PANEL, CABINET, OR CONSOLE MOUNTED - VISIBLE AT FIELD LOCATION - NORMALLY OPERATOR ACCESSIBLE	ABCD 12345	ABCD 12345	ABCD 12345	ABCD 12345
- LOCATED IN OR ON FRONT OF CENTRAL OR MAIN PANEL OR CONSOLE - VISIBLE ON FRONT OF PANEL OR ON VIDEO DISPLAY - NORMALLY OPERATOR ACCESSIBLE AT PANEL FRONT OR CONSOLE	ABCD 12345	ABCD 12345	ABCD 12345	ABCD 12345
- LOCATED IN REAR OF CENTRAL OR MAIN PANEL - LOCATED IN CABINET BEHIND PANEL - NOT VISIBLE ON FRONT OF PANEL OR ON VIDEO DISPLAY - NOT NORMALLY OPERATOR ACCESSIBLE AT PANEL OR CONSOLE	ABCD 12345	ABCD 12345	ABCD 12345	ABCD 12345
- LOCATED IN OR ON FRONT OF SECONDARY OR LOCAL PANEL OR CONSOLE - VISIBLE ON FRONT OF PANEL OR ON VIDEO DISPLAY - NORMALLY OPERATOR ACCESSIBLE AT PANEL FRONT OR CONSOLE	ABCD 12345	ABCD 12345	ABCD 12345	ABCD 12345
- LOCATED IN REAR OF SECONDARY OR LOCAL PANEL - LOCATED IN FIELD CABINET - NOT NORMALLY OPERATOR ACCESSIBLE AT PANEL OR CONSOLE	ABCD 12345	ABCD 12345	ABCD 12345	ABCD 12345

X — SUFFIX (X) TO DIFFERENTIATE BETWEEN INSTRUMENTS AND FUNCTIONS THAT WOULD OTHERWISE HAVE THE SAME IDENTIFICATION.

SINGLE INSTRUMENT OR OTHER COMPONENT HAVING MULTIPLE FUNCTIONS OR SHARING A COMMON HOUSING

(ZZZ) — DESIGNATIONS OF CONTROL FUNCTIONS (ZZZ) ASSOCIATED WITH INSTRUMENT OR OTHER COMPONENTS.

AHC -	AUTO/HOLD/CLOSE	OC -	OPEN/CLOSE
AM -	AUTO/MANUAL	OSC -	OPEN/STOP/CLOSED
CALC -	CALCULATION	POT -	POTENTIOMETER
DEV -	DEVIATION	RL -	RAISE/LOWER
MOA -	MANUAL/OFF/AUTO	RS -	RUN/STOP
HOR -	HAND/OFF/REMOTE	RSL -	RAISE/STOP/LOWER
LOS -	LOCKOUT STOP	SD -	SHUTDOWN
LR -	LOCAL/REMOTE	SEL -	SELECT
LSR -	LOCAL/STOP/REMOTE	SP -	SET POINT
00 -	ON / OFF	SR -	START/RESET
		SS -	STOP/START

* ABCD 12345 — INSTRUMENT WITH COMPUTING OR CONVERTING FUNCTION

ABCD 12345 * — CONTROL SYSTEM COMPUTING FUNCTION

CONVERT

E - VOLTAGE	H - HYDRAULIC
I - CURRENT	O - ELECTROMAGNETIC, SONIC
P - PNEUMATIC	R - RESISTANCE (ELECT.)
A - ANALOG	D - DIGITAL
B - BINARY	

COMPUTE

*		P	PROPORTIONAL	△	DIFFERENCE
Σ	SUMMING	R	DERIVATIVE	>	HIGH SELECTING
—	SUBTRACTOR	Σ/n	AVERAGING	<	LOW SELECTING
X	MULTIPLYING	I:I	RATIO	∫	INTEGRAL
÷	DIVIDING	PID	PID	#	COMPLEX FUNCTION
√	ROOT EXTRACTION				

= 1, 2, 3, etc.

REFER TO NOTE ON SAME SHEET FOR BRIEF DESCRIPTION

* — ELECTRICAL CONTROL INTERLOCK

\# — COMPLEX INTERLOCK
= 1, 2, 3, etc.
REFER TO NOTE ON SAME SHEET FOR BRIEF DESCRIPTION

AND — AND LOGIC

OR — OR LOGIC

ABCD 1234 — PILOT LIGHT

VALVE, GATE, AND ACTUATOR SYMBOLS

- GATE VALVE
- PLUG VALVE
- GLOBE VALVE
- BALL VALVE
- BUTTERFLY VALVE
- BALL CHECK VALVE
- SWING CHECK VALVE
- CHECK VALVE
- 3-WAY VALVE
- 3-WAY BALL VALVE
- DIAPHRAGM VALVE
- PINCH VALVE
- NEEDLE VALVE
- KNIFE GATE VALVE
- SLUICE GATE
- STOP/SLIDE GATE
- SOLENOID ACTUATOR
- PNEUMATIC ACTUATOR
- BACKFLOW PREVENTER
- PRESSURE RELIEF VALVE
- VACUUM RELIEF VALVE
- COMBINATION VACUUM AND PRESSURE RELIEF VALVE
- PRESSURE-REDUCING REGULATOR
- BACKPRESSURE REGULATOR
- AIR RELEASE VALVE
- ROTARY MOTOR
- ELECTROHYDRAULIC ACTUATOR
- MANUAL ACTUATOR

PUMP AND EQUIPMENT SYMBOLS

- CENTRIFUGAL WET PIT PUMP (OR DRY-PIT SUBMERSIBLE)
- BLOWER (CENTRIFUGAL)
- GEAR PUMP OR BLOWER (POSITIVE DISPLACEMENT)
- CHOPPER PUMP
- PISTON PUMP
- DIAPHRAGM PUMP
- ROTARY LOBE PUMP OR BLOWER (POSITIVE DISPLACEMENT)
- METERING PUMP
- COMPRESSOR
- PROGRESSIVE CAVITY PUMP
- VERTICAL PUMP
- INLINE GRINDER
- CENTRIFUGAL PUMP
- SCREW CENTRIFUGAL PUMP
- MIXER

MISCELLANEOUS SYMBOLS

- QUICK CONNECT
- BLIND FLANGE
- FLEXIBLE HOSE
- CALIBRATION CYLINDER
- PULSATION DAMPENER
- EXPANSION TANK
- HORN
- HORN/STROBE
- RUPTURE DISK
- VENT
- DRAIN
- STRAINER
- DIAPHRAGM SEAL
- FULL LINE OR TAPPED RING SEAL
- MOTOR HEATER
- XXXX-YYYY EQUIPMENT OR PANEL TAG
- M MOTOR
- RU ROTARY UNION
- IN-LINE COMPRESSED AIR FILTER
- AIR FILTER
- STATIC MIXER
- SIPHON

PRIMARY ELEMENT SYMBOLS

- M MAGNETIC FLOW METER
- SONIC FLOW METER
- ΔT THERMAL MASS FLOW METER
- TURBINE OR PROPELLER FLOW METER
- VENTURI FLOW METER
- AVERAGING PITOT TUBE
- FICV ROTAMETER WITH INTEGRAL VALVE
- XX ABCD 1234 — XX: RF=ADMITTANCE/CAPACITANCE MAN=MANOMETER
- ULTRASONIC LEVEL SENSOR
- SUBMERSIBLE LEVEL SENSOR
- NON-CONTACT RADAR LEVEL SENSOR
- GUIDED WAVE RADAR LEVEL SENSOR
- FLOAT LEVEL SWITCH
- CAPACITANCE LEVEL SENSOR

ANALYTICAL ABBREVIATIONS

AXX 12345 (ZZZ) — ANALYSIS INSTRUMENT

(ZZZ) = ALK - ALKALINITY
CH4 - METHANE
CL2 - CHLORINE
COMB - COMBUSTIBLE GAS
CON - CONDUCTIVITY
DO - DISSOLVED OXYGEN
IR - INFRARED
H2S - HYDROGEN SULFIDE
LEL - LOWER EXPLOSIVE LIMIT
METH - METHANOL VAPOR
NH3 - AMMONIA
NO3 - NITRATE
O2 - OXYGEN
O3 - OZONE
ORP - OXIDATION/REDUCTION POTENTIAL
PETRO - PETROLEUM VAPOR
PH - HYDROGEN ION CONCENTRATION
PO4 - PHOSPHATE
SO2 - SULFUR DIOXIDE
TH - TOTAL HARDNESS
TSS - TOTAL SUSPENDED SOLIDS
TURB - TURBIDITY
UV - ULTRAVIOLET

GENERAL NOTES

1. SYMBOLS AND NOMENCLATURE ARE BASED ON ANSI/ISA-5.1-2009.
2. REFER TO LEGEND SHEETS OF OTHER DISCIPLINES FOR ADDITIONAL SYMBOLS AND ABBREVIATIONS.
3. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAIL ON CONTROL SYSTEM FUNCTIONAL REQUIREMENTS.
4. INSTRUMENTS AND PANELS DENOTED WITH AN ASTERISK (*) ARE PROVIDED BY OTHER DISCIPLINES UNDER THIS CONTRACT. REFER TO THE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DETAIL.
5. POWER SUPPLIES FOR LOOPS OR SYSTEMS SHALL BE FURNISHED BY THE INSTRUMENTATION SUPPLIER TO MEET THE PARTICULAR CHARACTERISTICS (E.G., VOLTAGE AND CURRENT REQUIREMENTS) OF COMPONENTS IN EACH LOOP OR SYSTEM.

LINE SYMBOLS AND LEGEND

- MAJOR PROCESS PIPES OR CHANNELS
- SECONDARY PROCESS OR MECHANICAL CONNECTION
- AIR SUPPLY OR SIGNAL
- ELECTRICAL SIGNAL/ COPPER CABLE
- DATA LINK OR INTERNAL SOFTWARE LINK
- FO — FIBER OPTIC CABLE
- FOPC — FIBER OPTIC PATCH CABLE
- C6 — CAT6 CABLE

REFER TO SYSTEM ARCHITECTURE SHEETS FOR LINETYPES REPRESENTING OTHER MEDIA AND PROTOCOLS

- PROCESS/SIGNALS NOT CONNECTED (CROSSING)
- PROCESS/SIGNALS CONNECTED
- TAG / DRAWING — OFF-SHEET CONNECTOR
- DISCRETE ELECTRICAL SIGNALS
- DISCRETE DIGITAL SIGNALS
- ANALOG ELECTRICAL SIGNALS
- ANALOG DIGITAL SIGNALS

IDENTIFICATION LETTERS

	FIRST LETTERS: MEASURED OR INITIATING VARIABLE	FIRST LETTERS: VARIABLE MODIFIER	SUCCEEDING LETTERS: READOUT/ PASSIVE FUNCTION	SUCCEEDING LETTERS: OUTPUT/ ACTIVE FUNCTION	SUCCEEDING LETTERS: FUNCTION MODIFIER
A	ANALYSIS		ALARM		
B	BURNER, COMBUSTION		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
C	CONDUCTIVITY			CONTROL	CLOSE
D	DENSITY (MASS) OR SPECIFIC GRAVITY	DIFFERENCE, DIFFERENTIAL			DEVIATION
E	VOLTAGE (EMF)		SENSOR, PRIMARY ELEMENT		
F	FLOW, FLOW RATE	RATIO			
G	USER'S CHOICE		GLASS, GAUGE, VIEWING DEVICE		
H	HAND				HIGH
I	CURRENT		INDICATE		
J	POWER		SCAN		
K	TIME, SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT		LOW
M	MOISTURE OR HUMIDITY	MOMENTARY			MIDDLE, INTERMEDIATE
N	TORQUE		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
O	USER'S CHOICE		ORIFICE, RESTRICTION		OPEN
P	PRESSURE		POINT (TEST CONNECTION)		
Q	QUANTITY	INTEGRATE, TOTALIZE	INTEGRATE, TOTALIZE		
R	RADIATION		RECORD		RUN
S	SPEED, FREQUENCY	SAFETY		SWITCH	STOP
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	
V	VIBRATION, MECHANICAL ANALYSIS			VALVE, DAMPER, LOUVER	
W	WEIGHT, FORCE		WELL PROBE		
X	UNCLASSIFIED	X-AXIS	ACCESSORY DEVICES, UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y	EVENT, STATE, PRESENCE	Y-AXIS		AUXILIARY DEVICES	
Z	POSITION, DIMENSION	Z-AXIS, SAFETY INSTRUMENTED SYSTEM		DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT	

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: J. STANBRIDGE
DRAWN BY: C. FREEMAN
CHECKED BY: C. ALCORN

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE — 0 1/2" 1"

CONFORMED DRAWING

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Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

INSTRUMENTATION
LEGEND AND GENERAL NOTES

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 00-I-001

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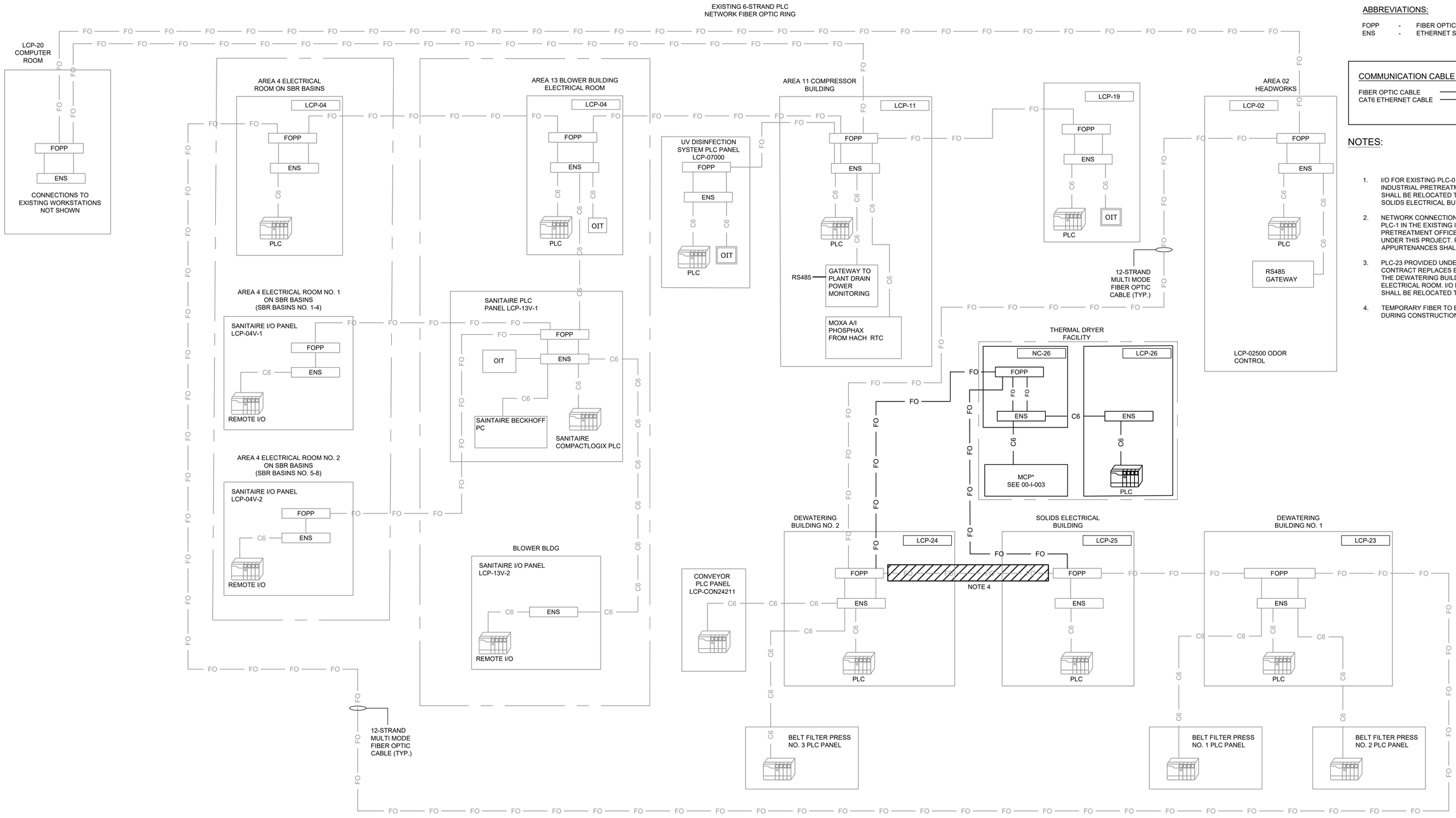

ABBREVIATIONS:

FOPP	-	FIBER OPTIC PATCH PANEL
ENS	-	ETHERNET SWITCH

COMMUNICATION CABLE LEGEND:

FIBER OPTIC CABLE	FO
CAT6 ETHERNET CABLE	C6

NOTES:

1. I/O FOR EXISTING PLC-01 IN THE INDUSTRIAL PRETREATMENT OFFICE SHALL BE RELOCATED TO PLC-25 IN THE SOLIDS ELECTRICAL BUILDING.
2. NETWORK CONNECTION TO EXISTING PLC-1 IN THE EXISTING INDUSTRIAL PRETREATMENT OFFICE4 IS REMOVED UNDER THIS PROJECT. PLC-1 AND ALL APPURTENANCES SHALL BE REMOVED.
3. PLC-23 PROVIDED UNDER THIS CONTRACT REPLACES EXISTING PLC-2 IN THE DEWATERING BUILDING NO. 1 ELECTRICAL ROOM. I/O FROM PLC-2 SHALL BE RELOCATED TO PLC-23.
4. TEMPORARY FIBER TO BE PULLED DURING CONSTRUCTION.

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PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: J. STANBRIDGE
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FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

INSTRUMENTATION SYSTEM ARCHITECTURE MODIFICATIONS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 00-I-002

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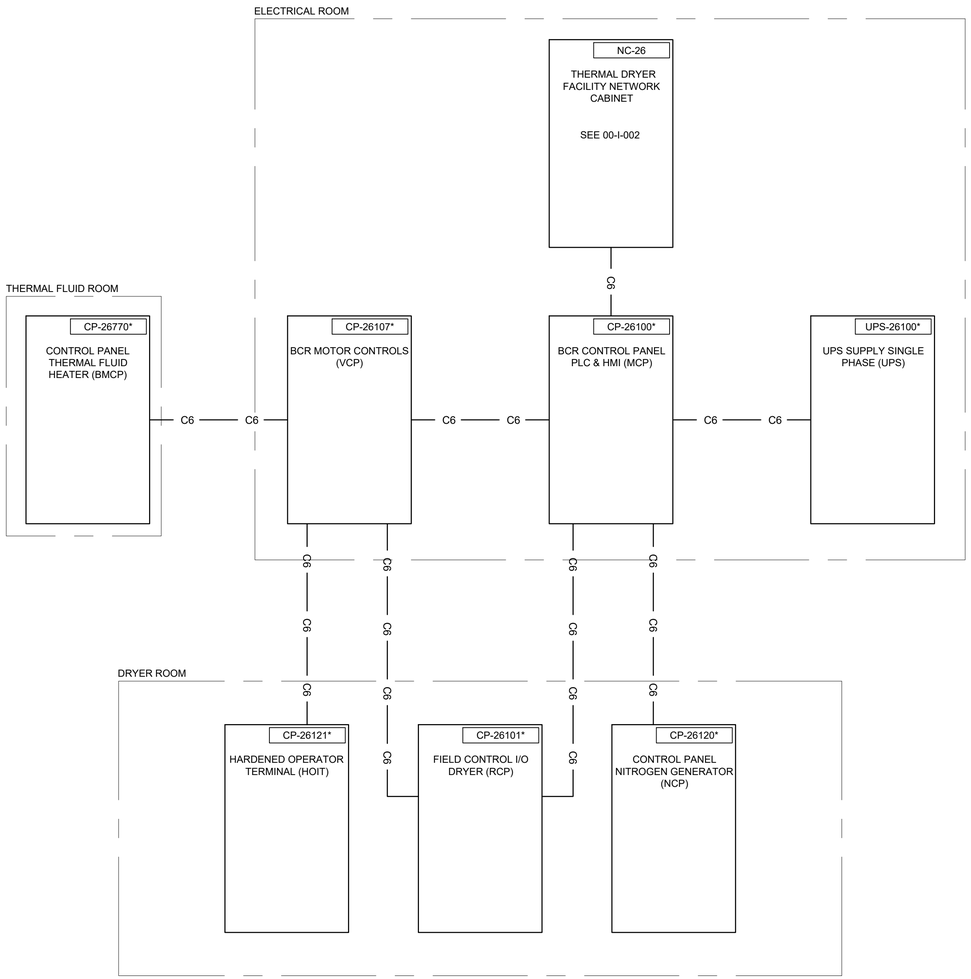

NOTES:

1. THE FOLLOWING NOTES APPLY TO ALL DRAWINGS SHOWING DRYER EQUIPMENT:

   a. THE DRYER IS FURNISHED AS A PACKAGED SYSTEM, INCLUDING INSTRUMENTATION AND ASSOCIATED CONTROLS COMPONENTS. THE LOCATIONS OF DRYER SYSTEM COMPONENTS IS BASED ON PRELIMINARY INFORMATION. CONTRACTOR SHALL REVIEW THE FINAL APPROVED BCR SHOP DRAWINGS, INCLUDING LOOP DIAGRAMS AND PLAN DRAWINGS FOR ANY CHANGES PRIOR TO INSTALLING CONDUIT AND WIRE FOR THE SYSTEM.

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PROJECT ENGINEER: D. SEBUSCH
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INSTRUMENTATION SYSTEM ARCHITECTURE THERMAL DRYER FACILITY

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 00-I-003

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HMI

HMI

FAULT
YA 23104

RUNNING
YN 23104 A

IN AUTO
YN 23104 B

RUN
HS 23104

LCP-23

LCP-23

TO/FROM EXISTING CONVEYOR CONTROL PANEL

- E-STOP TRIP CORD
- PRESSURE RELIEF COVER OPEN
- ZERO SPEED
- OPEN/CLOSE COMMAND (TYP 3)
- OPEN/CLOSE VERIFICATION (TYP 3)
- IN REMOTE (TYP 3)

CCP-CON23104

CONVEYOR CON23104

ES 480/3

OOA HS 23104 A
SS HS 23104 B
RUN YN 23104
FAULT YA 23104 A
ZERO SPEED YA 23104 B
COVER OPEN YA 23104 C
E-STOPPED YA 23104 D

CONVEYOR GATE G23105

OC HS 23105
AVAIL XL 23105
ZIO 23105
ZIC 23105
SILENCE HS 23104 C
RESET HS 23104 D
E-STOP HS 23104 E

DWS
X
FROM BFP 1/2 INCLINED SLUDGE CONVEYOR

ZSO 23103 * COVER OPEN

HS 23103 * TRIP CORD E-STOP

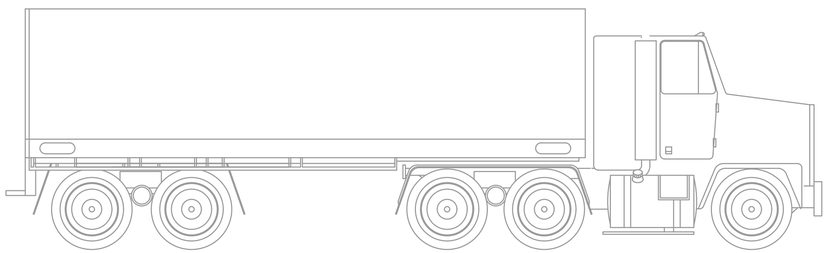
SSL 23103 *

CO-103

ES 480/3 M SG-101

ES 480/3 M SG-102

ES 480/3 M SG-103



SSL 23104 *

ZSO 23104 * COVER OPEN

HS 23104 F * TRIP CORD E-STOP

M

M 480/3 ES

G23105
DEWATERED CAKE FEED CONVEYOR 1
CON23104

SSE 23104 *

DWS
26-I-001
TO DEWATERED CAKE FEED HOPPER 2

DWS
26-I-001
TO DEWATERED CAKE FEED HOPPER 1

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THERMAL DRYER FACILITY

INSTRUMENTATION PROCESS AND INSTRUMENTATION DIAGRAM BELT FILTER PRESS 1/2 LOADOUT

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 23-I-001

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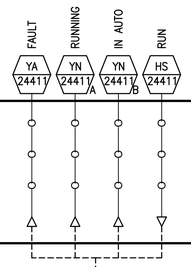
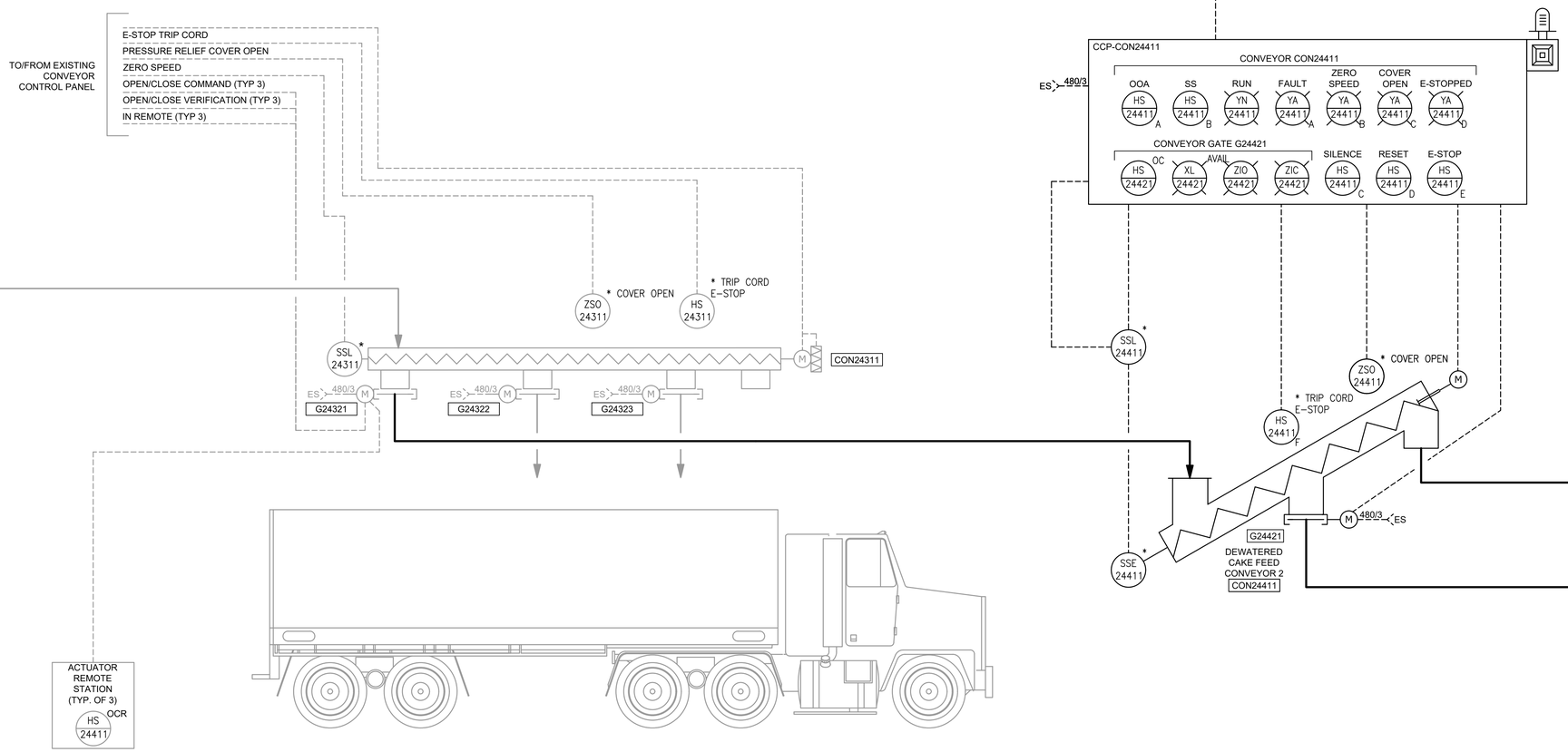
LCP-24





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GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

INSTRUMENTATION PROCESS AND INSTRUMENTATION DIAGRAM BELT FILTER PRESS 3 LOADOUT

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA NO.:	2022_007
DRAWING NUMBER:	24-I-001

File: C:\USERS\CFREEMAN\DOCUMENTS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\INST\32307-007 FITZ CREEK DRYER\PID DWG\24-I-001 Saved by CFREEMAN Save date: 3/2/2026 4:16 PM
PLOT DATE: 3/2/2026 4:20 PM BY: CFREEMAN

TYP. 5 PUMPS

DEWATERED CAKE FEED PUMP

WEIGHT	IN HAND	IN AUTO	SPEED	SPEED CONTROL	RUNNING	FAIL	START/STOP	LEVEL	OPEN COMMAND	CLOSE COMMAND	OPEN	CLOSE	E-STOP	LOW SPEED	LOW SPEED	PRESSURE	IN HAND	IN AUTO	TEMPERATURE	PRESSURE	OPEN	CLOSE	OPEN COMMAND	CLOSE COMMAND
WI 26101	YN 26102 /C	YN 26102 /D	SI 26101 /A	SC 26101 /A	YN 26101 /A	YA 26101 /A	HS 26101 /A	LI 26101	HSO 26103	HSC 26103	ZIO 26103	ZIC 26103	YA 26103	SAL 26101	SAL 26102	PI 26103	YN 26104	YN 26104 /D	TI 26104	PI 26104	ZIO 26104	ZIC 26104	HSO 26104	HSC 26104

HMI

LCP-26

MCP (CP-26100) *

NOTES:

1. REFER TO THE MANUFACTURER PROVIDED P&IDS FOR I/O AND CONTROL REQUIREMENTS
2. ALL EQUIPMENT AND INSTRUMENTATION IN BOUNDED REGION TO BE VENDOR SUPPLIED

NOTE 2

ES 480/3 — CONT. ON 26-I-002

VCP (CP-26107)

1 2

DWS 24-I-001 — FROM DEWATERED CAKE FEED CONVEYOR 1

DWS 24-I-002 — FROM DEWATERED CAKE FEED CONVEYOR 2

LIT 26101

26102B 26101B AS — 26102D 26101B AS

M — MZ26102B LEVELING SCREW 1B

26102A 26101B AS — AS 26102C 26101B

M — MZ26102A LEVELING SCREW 1A

HS 26102 HOA

E-STOP HS 26103

PI 26101 A

CA 26-I-006 — FROM COMPRESSED AIR RECEIVER

TYP. OF 8 AIR SEAL (AS) LOCATIONS

26101D 26101B AS

M — MZ26101B LIVE BOTTOM SCREW FEEDER 1B

26101A 26101B AS — AS 26101C 26101B

M — MZ26101A LIVE BOTTOM SCREW FEEDER 1A

SSL 26101 — SSL 26102

DEWATERED CAKE FEED HOPPER 1

H26101

WE 26101 A — WE 26101 B — WE 26101 C — WE 26101 D

ES 120/1 — WIT 26101 — WJB 26101

M — MOV26103

1 — TT 26104 — PT 26103

TSH 26104 — HS 26104 HOA — PT 26104 — PI 26104 — M — 2

M — DEWATERED CAKE FEED PUMP 1 CFP26104

MOV26104

DWS 26-I-002 — TO DRYER

DWS 24-I-001 — FROM DEWATERED CAKE FEED CONVEYOR 1

DWS 24-I-002 — FROM DEWATERED CAKE FEED CONVEYOR 2

DEWATERED CAKE FEED HOPPER 2

H26111

IDENTICAL EQUIPMENT AS DEWATERED CAKE FEED HOPPER 1 — 2611X 2610X

NOTE 2

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE — 0 1/2" 1"

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: J. STANBRIDGE
DRAWN BY: C. FREEMAN
CHECKED BY: C. ALCORN

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY JARED C. STANBRIDGE P.E. No. 045672 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

INSTRUMENTATION PROCESS AND INSTRUMENTATION DIAGRAM DEWATERED CAKE FEED HOPPERS AND PUMPS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 26-I-001

File: C:\USERS\CFREEMAN\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\INST\32307-007 FITZ CREEK DRYER\PID DWG\26-I-001 Saved by CFREEMAN Save date: 3/2/2026 4:16 PM
PLOT DATE: 3/2/2026 4:20 PM BY: CFREEMAN

TYP. OF 2

TYP. OF 12

DRYER SCREW DRIVE 1
TYP. OF 2

	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	OPENED	CLOSED	OPEN	CLOSE	TEMPERATURE	LEVEL	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	HIGH LEVEL	SPEED	SPEED CONTROL	RUNNING	FAIL	START/STOP	POSITION	POSITION	DIFFERENTIAL PRESSURE	LOW PRESSURE	LOW-LOW PRESSURE	OPEN COMMAND	
HMI	TI 26520	TI 26517	TI 26518	TI 26519	ZSO 26502	ZSC 26502	HSO 26502	HSC 26502	TI 26501	LI 26501	TI 26503	TI 26507	TI 26521	TI 26504	LAH 26501	SI 26501	SC 26501	YN 26501	YA 26501	HS 26501	ZI 26502	ZI 26501	PDI 26501	PSL 26502	PSLL 26503	HS 26504	HMI
LCP-26																											LCP-26
MCP (CP-26100)*																											MCP (CP-26100)*
RCP (CP-26101)*																											RCP (CP-26101)*

CONT. FROM 26-I-001

VCP (CP-26107)

CONT. ON 26-I-003

NOTES:

1. REFER TO THE MANUFACTURER PROVIDED P&IDS FOR I/O AND CONTROL REQUIREMENTS
2. ALL EQUIPMENT AND INSTRUMENTATION ON THIS SHEET TO BE VENDOR SUPPLIED

WATER VAPOR
26-I-004
TO ODOR CONTROL

NPW

DWS
26-I-001
FROM DEWATERED CAKE FEED PUMPS

TFR
26-I-005
TO THERMAL FLUID SYSTEM

TFS
26-I-005
FROM THERMAL FLUID SYSTEM

ZSO 26502 / ZSC 26502 / M
MOV26502

SG 26501 / TE 26501 / LT 26501
SG 26502 / TE 26503
SG 26503 / TE 26521
SG 26504 / TE 26504
LSH 26501

DRYER
D26501

RU
RU

PI 26502 / PI 26504 / PI 26505 / PI 26503 / PI 26516
TE/TW 26520 / TE/TW 26517 / TE/TW 26519 / TE/TW 26518 / TE/TW 26516

TE 26502 / TE 26515 / TE 26505 / TE 26506 / TE 26507 / TE 26508 / TE 26509 / TE 26510 / TE 26511 / TE 26512 / TE 26513 / TE 26514

PI 26506 / PSL 26502 / PSLL 26503 / S
SV26504
N 26-I-006
FROM NITROGEN SUPPLY

FI 26502 / FI 26503 / FI 26504 / FI 26511 / FI 26505

FI 26507
N 26-I-003
TO DRIED PRODUCT CONVEYORS

FI 26508
N 26-I-005
TO THERMAL FLUID SYSTEM

FI 26509

FI 26510

PDT 26501
ATM

ZT 26502
MZ26502
DRYER SCREW DRIVE 2

MZ26501
DRYER SCREW DRIVE 1
ZT 26501

DP
26-I-003
TO DISCHARGE AND COOLING CONVEYORS

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE — 0 1/2" 1"

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	J. STANBRIDGE
DRAWN BY:	C. FREEMAN
CHECKED BY:	C. ALCORN

CONFORMED DRAWING

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HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

INSTRUMENTATION PROCESS AND INSTRUMENTATION DIAGRAM THERMAL DRYER SYSTEM

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA NO.:	2022_007
DRAWING NUMBER:	26-I-002

File: C:\USERS\CFREEMAN\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\INST\32307-007 FITZ CREEK DRYER\PID DWG\26I-I-002 Saved by CFREEMAN Save date: 3/2/2026 4:17 PM
PLOT DATE: 3/2/2026 4:20 PM BY: CFREEMAN

CON 26901, CON 26902, RV-26903
(TYP. OF 3)

ZIO 26901 OPENED
ZIC 26901 CLOSED
HSO 26901 OPEN
HSC 26901 CLOSE
TI 26901 TEMPERATURE
SAL 26901 ZERO SPEED
SI 26901 SPEED
SC 26901 SPEED CONTROL
YN 26901 A RUNNING
YA 26901 A FAIL
HS 26901 C START/STOP
YA 26901 B E-STOP
YN 26901 B IN REMOTE
SAL 26902 ZERO SPEED
YA 26901 C E-STOP
TI 26902 TEMPERATURE
SAL 26903 LOW SPEED
YA 26902 E-STOP

HMI
LCP-26
MCP (CP-26100)*
RCP (CP-26101)*

CONT. ON 26-I-002
CONT. ON 26-I-004
VCP (CP-26107)

DP 26-I-002
FROM DRYER

HS 26901 * E-STOP
SSL 26901 *
DISCHARGE CONVEYOR
CON26901
M
TE/TW 26901 *

SSL 26902 *
HS 26902 * E-STOP
RU
COOLING CONVEYOR
CON26902
M
TE/TW 26902 *
TI 26905 *
PDG 26-I-004
TO PLANT DRAIN

PI 26902 A *
PI 26902 B *
FICV 26902 *
CA 26-I-006
FROM NITROGEN SUPPLY

PI 26905 *
ROTARY VALVE
RV26903
M
SSL 26903 *
DP 26-I-007
TO DRIED PRODUCT LOADOUT

FE 27-I-001
FROM FINAL EFFLUENT WATER PUMP STATION
FICV 26901 *
M *
MOV-26901

N 26-I-002
FROM NITROGEN SUPPLY
PDG 26-I-004
TO PLANT DRAIN

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: J. STANBRIDGE
DRAWN BY: C. FREEMAN
CHECKED BY: C. ALCORN
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ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

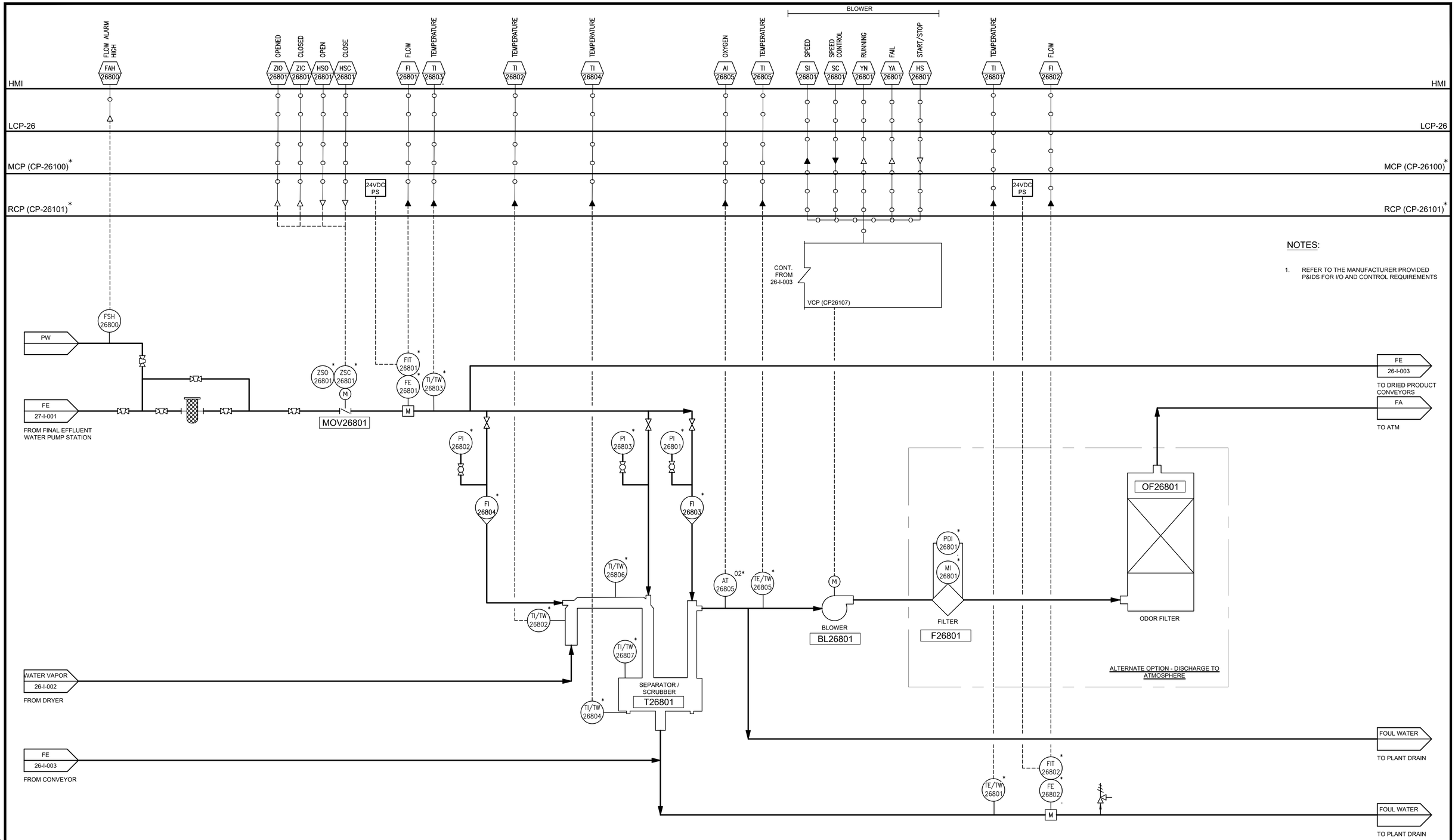
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

INSTRUMENTATION PROCESS AND INSTRUMENTATION DIAGRAM DRIED PRODUCT CONVEYORS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 26-I-003

File: C:\USERS\CFREEMAN\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\INST\32307-007 FITZ CREEK DRYER\PID DWG\26-I-003 Saved by CFREEMAN Save date: 3/2/2026 4:17 PM
PLOT DATE: 3/2/2026 4:20 PM BY: CFREEMAN



REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: J. STANBRIDGE
DRAWN BY: C. FREEMAN
CHECKED BY: C. ALCORN

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ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

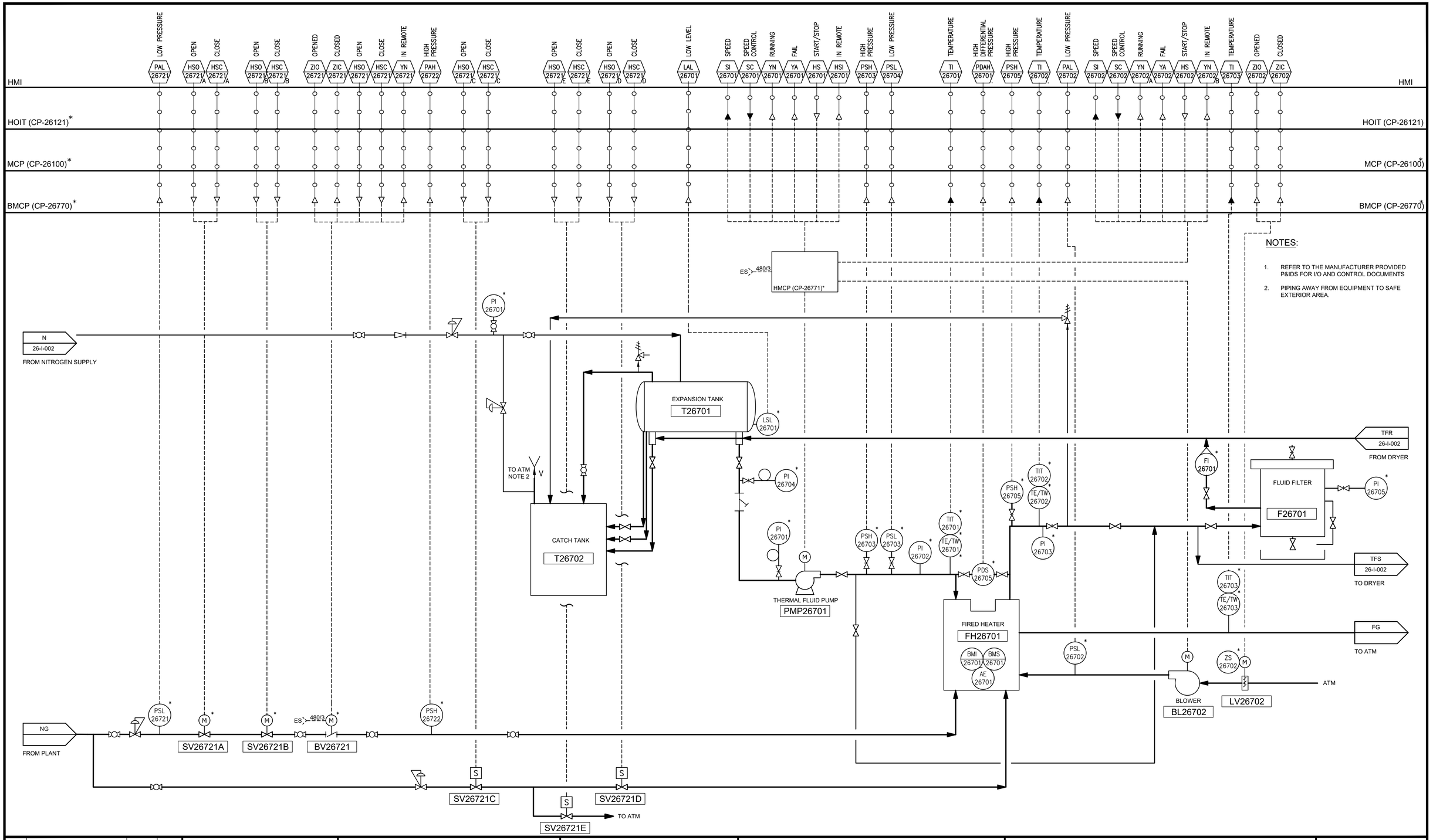
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

INSTRUMENTATION PROCESS AND INSTRUMENTATION DIAGRAM ODOR CONTROL SYSTEMS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 26-I-004

File: C:\USERS\CFREEMAN\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND VTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\INS\32307-007 FITZ CREEK DRYER\PID DWG\26-I-004 Saved by CFREEMAN Save date: 3/2/2026 4:18 PM
PLOT DATE: 3/2/2026 4:20 PM BY: CFREEMAN



REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	J. STANBRIDGE
DRAWN BY:	C. FREEMAN
CHECKED BY:	C. ALCORN

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1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

INSTRUMENTATION PROCESS AND INSTRUMENTATION DIAGRAM THERMAL FLUID SYSTEM

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA NO.:	2022_007
DRAWING NUMBER:	26-I-005

File: C:\USERS\CFREEMAN\DOCACCDOCS\HAZEN AND SAWYER\32307-007_ RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\INST\32307-007 FITZ CREEK DRYER\PID DWG\26-I-005 Saved by CFREEMAN Save date: 3/2/2026 4:18 PM
PLOT DATE: 3/2/2026 4:20 PM BY: CFREEMAN

HMI

PRESSURE
PI 26901

02
AI 26901

HMI

MCP (CP-26100)*

MCP (CP-26100)*

CA
TO COMPRESSED AIR SUPPLY USERS

PI 26903 *

PI 26904 *

ES 480/3

AIR COMPRESSOR
CP26904

ES 120/1

AIR DRYER
D26902

UPS 120/1

NCP (CP26120)

NITROGEN BOTTLES

FILTER
F26901

V26901
RECEIVER TANK 1

NITROGEN GENERATOR
NG26901

PI 26902 *

N
26-I-002
TO DRYER

V26902
RECEIVER TANK 2

OIL/WATER SEPARATOR
S26901

D

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
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PROJECT ENGINEER: D. SEBUSCH
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ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

INSTRUMENTATION PROCESS AND INSTRUMENTATION DIAGRAM INSTRUMENT AIR AND NITROGEN SYSTEMS

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 26-I-006

File: C:\USERS\CFREEMAN\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\INST\32307-007 FITZ CREEK DRYER\PID DWG\26-I-006 Saved by CFREEMAN Save date: 3/2/2026 4:18 PM
PLOT DATE: 3/2/2026 4:20 PM BY: CFREEMAN

HMI

LCP-26

MCP (CP-26100)*

RCP (CP-26101)*

SYSTEM RUNNING YN 26910

RUN COMMAND YC 26910

RUNNING YN 26911

FAULT YA 26911

RUNNING YN 26912

FAULT YA 26912

CCP-CON26912

CONVEYOR SYSTEM

OOA HS 26910 A

SS HS 26910 B

E-STOP HS 26910 C

SILENCE HS 26910 D

RESET HS 26910 E

480/3

ES

CONVEYOR CON26911 (TYP 2)

OOA HS 26911 A

SS HS 26911 B

RUN YN 26911

FAULT YA 26911 A

ZERO SPEED YA 26911 B

COVER OPEN YA 26911 C

E-STOPPED YA 26911 D

SSL 26911

SSL 26912

DP 26-I-003

FROM COOLING CONVEYOR

TRIP CORD E-STOP HS 26911

INCLINED PRODUCT CONVEYOR CON26911

FUTURE PELLETIZING CONNECTION

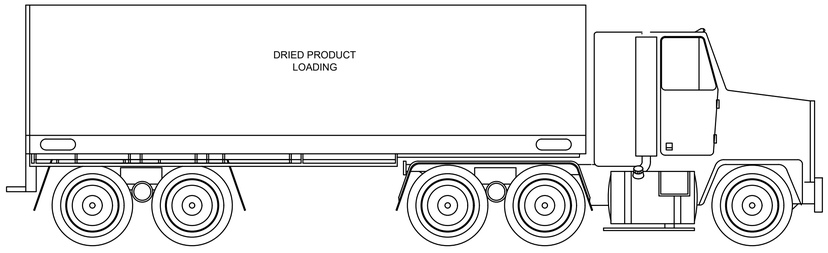
SSE 26911

TRIP CORD E-STOP HS 26912

DRIED PRODUCT CONVEYOR CON26912

SSE 26912

FUTURE PELLETIZING OIL CONNECTION



REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER: D. SEBUSCH

DESIGNED BY: J. STANBRIDGE

DRAWN BY: C. FREEMAN

CHECKED BY: C. ALCORN

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CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

INSTRUMENTATION PROCESS AND INSTRUMENTATION DIAGRAM DRIED PRODUCT LOADOUT

DATE: NOVEMBER 2025

HAZEN NO.: 32307-007

CCWSA NO.: 2022_007

DRAWING NUMBER: 26-I-007

File: C:\USERS\CFREEMAN\DCA\CCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\INST\32307-007 FITZ CREEK DRYER\PID DWG\26-I-007 Saved by CFREEMAN Save date: 3/2/2026 4:18 PM
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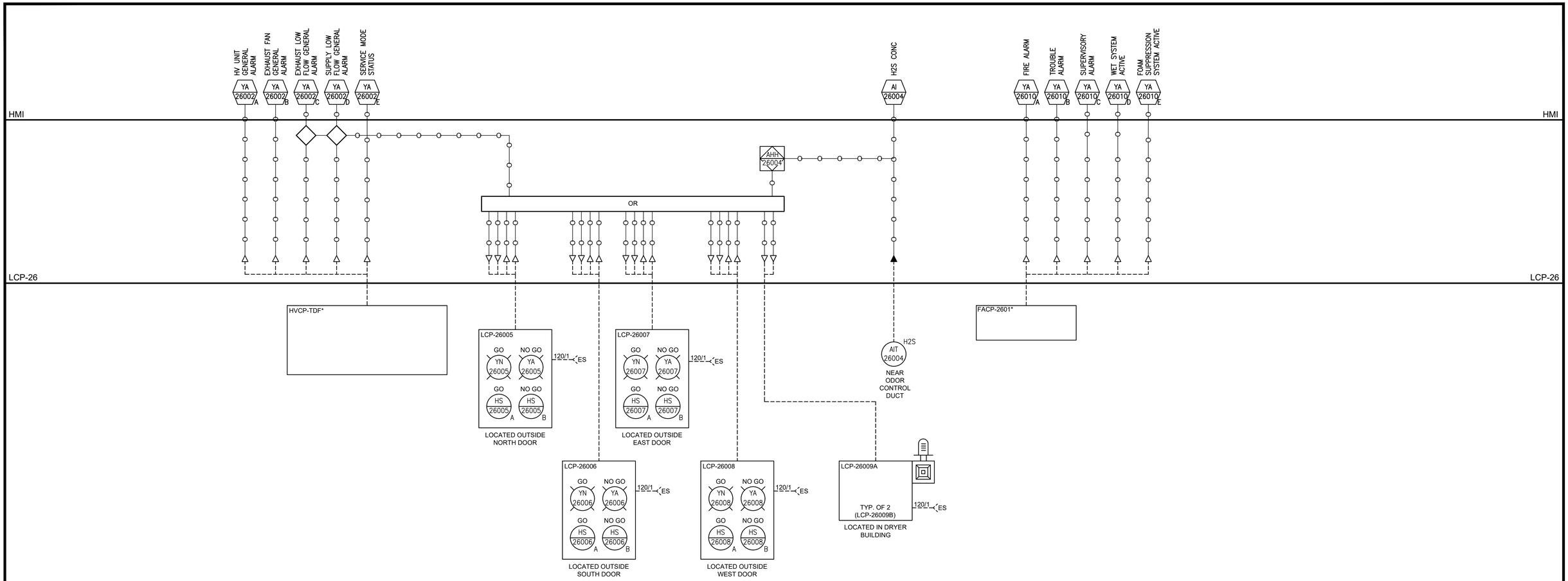

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
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PROJECT ENGINEER: D. SEBUSCH
DESIGNED BY: J. STANBRIDGE
DRAWN BY: C. FREEMAN
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ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

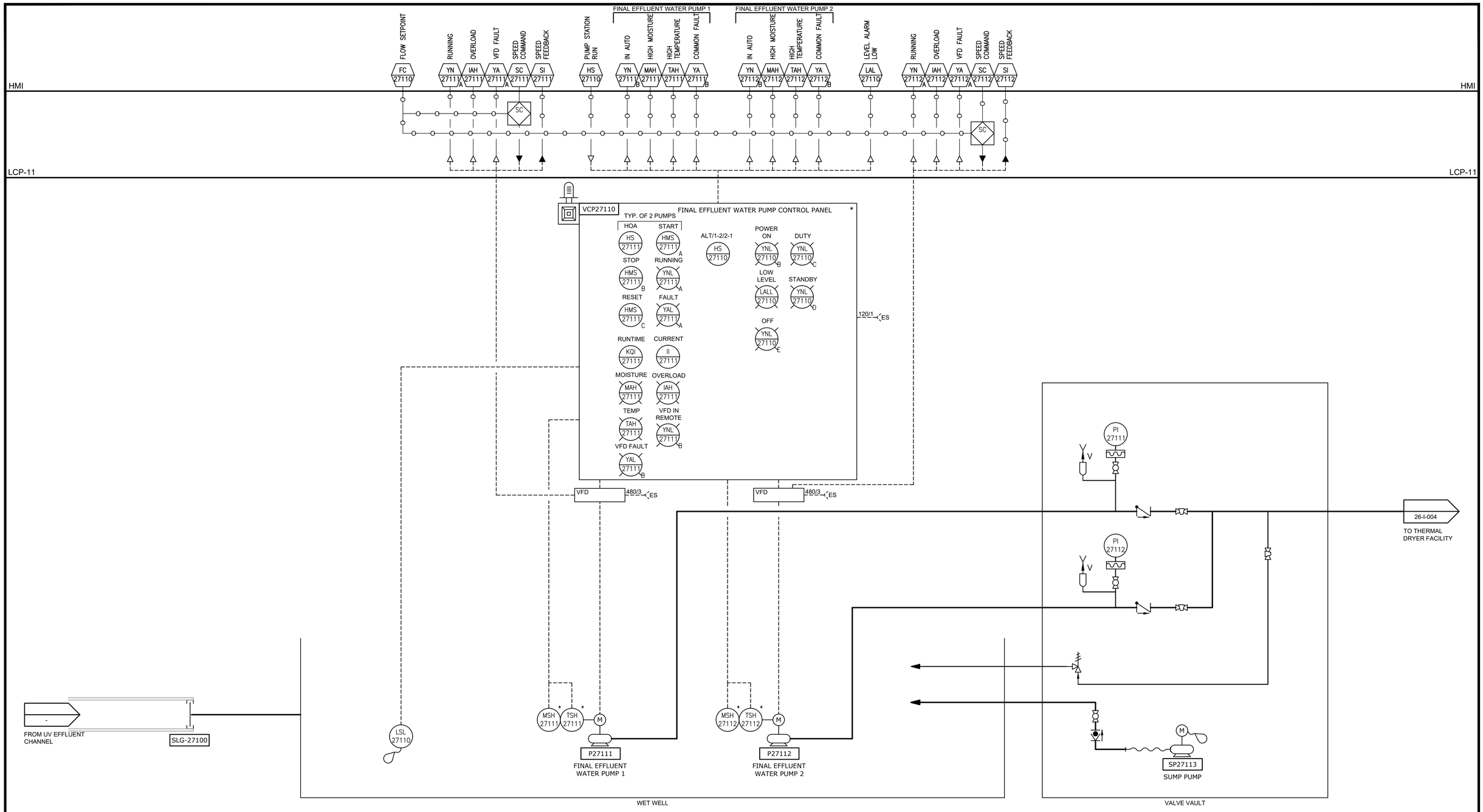
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

INSTRUMENTATION PROCESS AND INSTRUMENTATION DIAGRAM COMBUSTIBLE GAS AND VENTILATION

DATE: NOVEMBER 2025
HAZEN NO.: 32307-007
CCWSA NO.: 2022_007
DRAWING NUMBER: 26-I-008

File: C:\USERS\CFREEMAN\DOCACCDOCS\HAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\INST\32307-007 FITZ CREEK DRYERPID DWG\26-I-008 Saved by CFREEMAN Save date: 3/2/2026 4:19 PM
PLOT DATE: 3/2/2026 4:21 PM BY: CFREEMAN



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2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

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PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	J. STANBRIDGE
DRAWN BY:	C. FREEMAN
CHECKED BY:	C. ALCORN

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HAZEN AND SAWYER
1300 ALTMORE AVE, SUITE 520
ATLANTA, GA 30342
GBPE LIC #: PEF003685 EXP: 6/30/2026

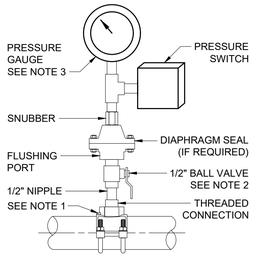
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
CANTON, GEORGIA

FITZGERALD CREEK WPCP
THERMAL DRYER FACILITY

INSTRUMENTATION PROCESS AND INSTRUMENTATION DIAGRAM FINAL EFFLUENT WATER PUMP STATION

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
CCWSA NO.:	2022_007
DRAWING NUMBER:	27-I-001

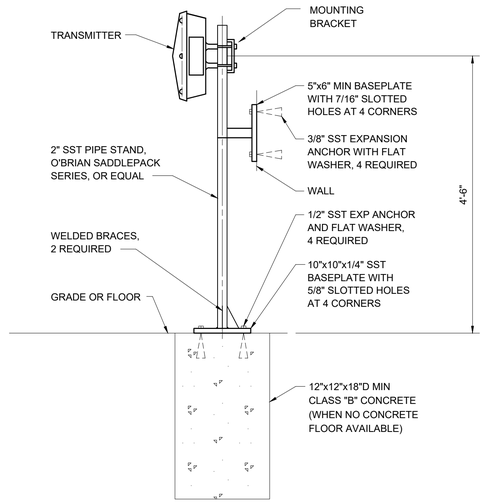
File: C:\USERS\CFREEMAN\DOCACOCDCS\SHAZEN AND SAWYER\32307-007_RIVERBEND WTP THERMAL DRYER FACILITY\PROJECT FILES\01_DESIGN\INST\32307-007 FITZ CREEK DRYER\PID DWG\27-I-001 Saved by CFREEMAN Save date: 3/2/2026 4:19 PM
PLOT DATE: 3/2/2026 4:21 PM BY: CFREEMAN



NOTES:
1. SADDLE STRAP IS SHOWN FOR GENERAL REPRESENTATION. SEE MECHANICAL DRAWINGS AND SECTION 40 05 00 - BASIC MECHANICAL REQUIREMENTS FOR ADDITIONAL PRESSURE TAP REQUIREMENTS.
2. ALL COMPONENTS SHALL BE TYPE 316 SST OR ALTERNATE MATERIAL TO MEET CHEMICAL COMPATIBILITY REQUIREMENTS. FITTINGS SHALL BE THREADED AND BALL VALVES SHALL BE FULL PORT WITH LEVER STYLE HANDLE.
3. CONTRACTOR SHALL ORIENT GAUGE FACE FOR VISIBILITY.

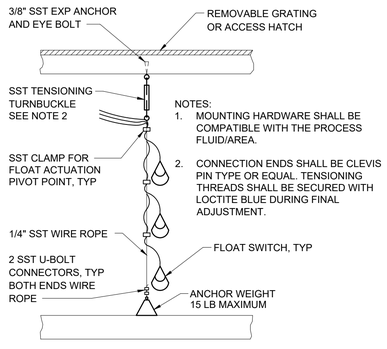
PRESSURE GAUGE AND SWITCH INSTALLATION
FOR PIPES 2" AND LARGER
(SHOWN WITH DIAPHRAGM SEAL)

I-40-0301



TYPICAL PIPE STAND TRANSMITTER
MOUNTED ON FLOOR OR WALL

I-40-0905

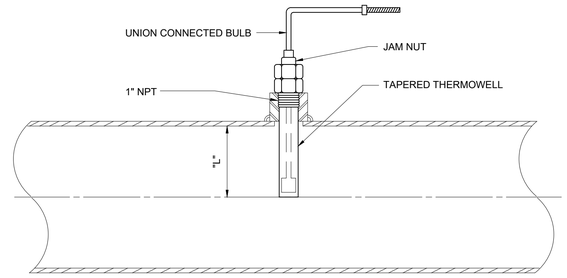


NOTES:
1. MOUNTING HARDWARE SHALL BE COMPATIBLE WITH THE PROCESS FLUID/AREA.
2. CONNECTION ENDS SHALL BE CLEVIS PIN TYPE OR EQUAL. TENSIONING THREADS SHALL BE SECURED WITH LOCTITE BLUE DURING FINAL ADJUSTMENT.

UNDER SLAB ANCHORED
LEVEL SWITCH
MOUNTING DETAIL

I-40-0201

NOTES:
1. TEMPERATURE INSTRUMENT NOT SHOWN
2. INSERTION LENGTH "L" SHALL BE AS FOLLOWS:
FOR PIPES UP TO 12 INCHES "L" SHALL EQUAL 1/3 THE DIAMETER OF THE PIPE. FOR LARGER PIPES AND VESSELS, "L" SHALL BE SIZED SO THAT IT EXTENDS 4 INCHES INTO THE PROCESS.



TYPICAL TEMPERATURE ELEMENT

I-40-0401

REV	ISSUED FOR	DATE	BY
3	CONFORMED SET	03/2026	DS
2	BID SET REISSUE	11/2025	DS
1	BID	10/2025	DS

PROJECT ENGINEER:	D. SEBUSCH
DESIGNED BY:	J. STANBRIDGE
DRAWN BY:	C. FREEMAN
CHECKED BY:	C. ALCORN
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

CONFORMED DRAWING

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY JARED C. STANBRIDGE P.E. No. 045672 ON 11/05/2025. THIS DOCUMENT SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

Hazen
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INSTRUMENTATION
STANDARD DETAILS

DATE:	NOVEMBER 2025
HAZEN NO.:	32307-007
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