SACRAMENTO AREA
SEWER DISTRICT
SERVING YOU 24/7

October 2025

CONTRACT DOCUMENTS FOR THE CONSTRUCTION OF

ECHOWATER RESOURCE RECOVERY FACILITY

X09 OUTFALL SWITCHGEAR REPLACEMENT PROJECT

BID SET

Version: 2024.1.0

PART C - DRAWINGS

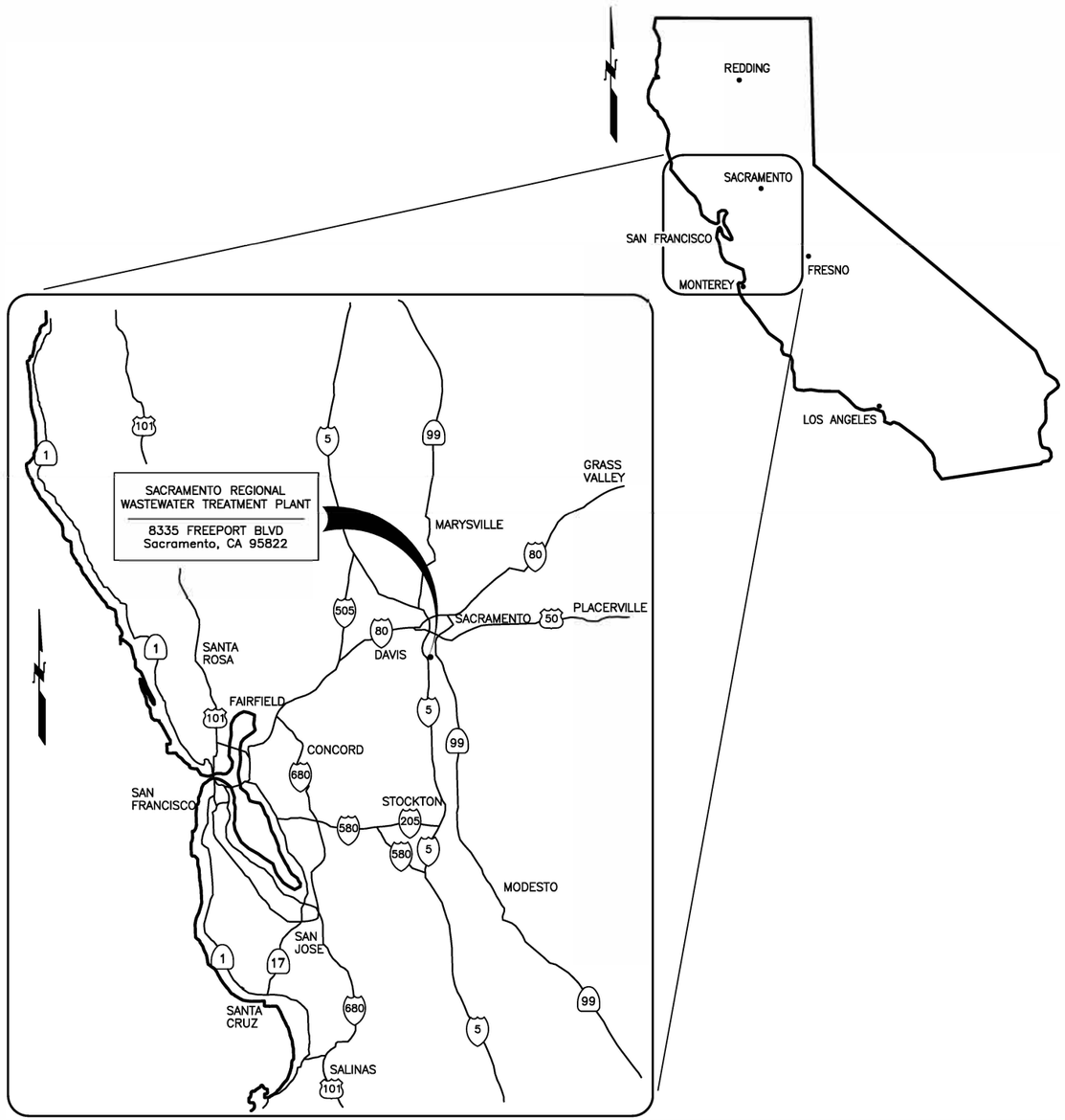
VOLUME 2 OF 2

APPROVALS

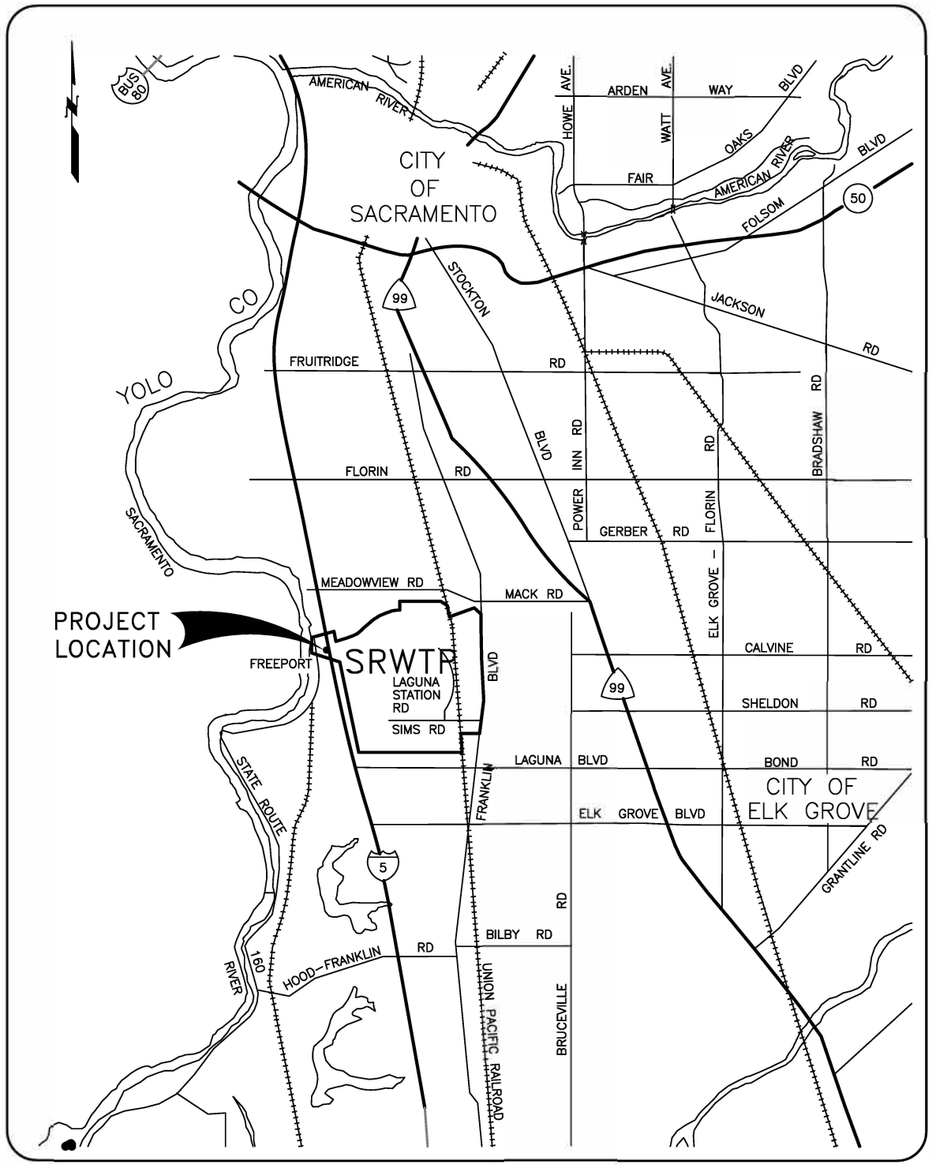
DocuSigned by: Ron Baptista 7476352D287457... 10/21/2025	Signed by: Sanjay Sivaprasad 1C6733BC03E0484... 10/21/2025	
SUBMITTED: DATE	SUBMITTAL APPROVED: DATE	
R. BAPTISTA, PE	***SANJAY SIVAPRASAD, PE***	
PROJECT ENGINEER	**PROJECT MANAGER**	
Signed by: William Yu D432B6D55629454... 10/21/2025	Signed by: C.N.Lunde 1C33FE8AE2DC4BE... 10/23/2025	DocuSigned by: Christoph Dobson ABF187D2508B41C... 10/23/2025
SUBMITTAL APPROVED: DATE	SUBMITTAL APPROVED: DATE	APPROVED: DATE
W. YU, PE	***S. LUNDE, PE***	***C. DOBSON, PE***
ENGINEERING MANAGER, ECHOWATER OPERATIONS DEPARTMENT	**PLANT MANAGER, DIRECTOR ECHOWATER OPERATIONS**	**DISTRICT ENGINEER**

CONTRACT NUMBER

RFB 8496



VICINITY MAP



LOCATION MAP

EchoWater Facility Engineering Design

SUB CONSULTANT

FRISCH ENGINEERING, INC.
CONSULTING ELECTRICAL ENGINEERS
13405 FOLSOM BLVD, UNIT 600
FOLSOM, CA 95630
PH 916 353 1025
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FILE: 2308A-EG1.DWG
DATE: SEP 17, 2024 TIME: 4:34:37PM

REGISTERED PROFESSIONAL ENGINEER
THOMAS P. FRISCH
No. E15761
ELECTRICAL
STATE OF CALIFORNIA

SACRAMENTO AREA SEWER DISTRICT

EchoWater Resource Recovery Facility

X09 OUTFALL SWITCHGEAR REPLACEMENT PROJECT

MARK	DATE	DESCRIPTION
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ISSUE BLOCK

DESIGNED T. FRISCH
DRAWN N. CONANT
CHECKED M. FRISCH
APPROVED ####
FILENAME ####
DESIGNER PROJECT NUMBER ###
CONTRACT NUMBER ###
CONTRACT SEQUENCE NUMBER ###
DISCIPLINE GENERAL

LOCATION AND VICINITY MAP

DRAWING NUMBER **G01**

1 OF 10

SCALE IN INCHES 0 1/2 1 2 4 (IF SCALE BAR IS NOT 4", SCALE ACCORDINGLY)

Sheet Set Manager: TERTIARY FILTRATION FACILITIES BASIS OF DESIGN
Path: R:\Engineering\Projects\X09 Switchgear Replacement Project\60% Design Drawings And Specs Filename: 002 G-1 VICINITY MAP.dwg Plot Date: November 25, 2024 - 9:24 AM CADD User: Long, Brett

COMPONENTS

SYMBOL	DESCRIPTION
RES	RESISTOR
SV	SOLENOID COIL
HTR	HEATER
	CAPACITOR
	DIODE
	DIODE, ZENER
MOV	METAL OXIDE VARISTOR
	AUDIBLE ALARM
1	MOTOR STARTER NEMA SIZE SHOWN
?	3 PHASE MOTOR ? = MOTOR HP
M	3 PHASE MOTOR
M	SINGLE PHASE MOTOR
	TRANSFORMER SIZE AND VOLTAGE AS SHOWN
M	UTILITY POWER METER
N G	NEUTRAL AND GROUND WITH DISCONNECT LINK
	UFER GROUND
	GROUND ROD OR SYSTEM
	CURRENT TRANSFORMER RATIO AS NOTED
	DISCONNECT SWITCH SIZED PER FEEDER
PDB	POWER DISTRIBUTION BLOCK

SWITCHES – PROCESS

SYMBOL	DESCRIPTION
FS	FLOW SWITCH – CLOSES UPON INCREASING FLOW
FS	FLOW SWITCH – OPENS UPON INCREASING FLOW
LS	LEVEL SWITCH – CLOSES UPON INCREASING LEVEL
LS	LEVEL SWITCH – OPENS UPON INCREASING LEVEL
PS	PRESSURE SWITCH – CLOSES UPON INCREASING PRESSURE (DECREASING VACUUM)
PS	PRESSURE SWITCH – OPENS UPON INCREASING PRESSURE (DECREASING VACUUM)
TS	TEMPERATURE SWITCH – CLOSES UPON INCREASING TEMPERATURE
TS	TEMPERATURE SWITCH – OPENS UPON INCREASING TEMPERATURE
ZS	LIMIT SWITCH – CLOSES AT SET LIMIT
ZS	LIMIT SWITCH – OPENS AT SET LIMIT
WS	TORQUE SWITCH – CLOSES UPON INCREASING TORQUE
WS	TORQUE SWITCH – OPENS UPON INCREASING TORQUE

DEVICES – RELAY

SYMBOL	DESCRIPTION
M1	CONTACTOR OR STARTER M1
CR 1	CONTROL RELAY CR1
TR 2	TIME DELAY RELAY TR2 – ADJUSTABLE TIME DELAY RANGE & SETTING AS SHOWN
TDOE TDOD	TIME DELAY ON ENERGIZATION TIME DELAY ON DE–ENERGIZATION
107, 121	REFERENCED RELAY WITH N.O. CONTACT ON LINE 107 N.C. CONTACT ON LINE 121
CR1 (105)	NORMALLY OPEN, RELAY CONTACT – ACTUATED BY RELAY CR1 COIL LOCATED ON LINE 105
CR1	NORMALLY CLOSED, RELAY CONTACT – ACTUATED BY RELAY CR1
TR2	NORMALLY OPEN, TIME DELAY RELAY CONTACT – CONTACT CLOSES AFTER TR2 IS ENERGIZED
TR2	NORMALLY CLOSED, TIME DELAY RELAY CONTACT – CONTACT OPENS AFTER TR2 IS ENERGIZED
TR2	NORMALLY OPEN, TIME DELAY RELAY CONTACT – CONTACT OPENS AFTER TR2 IS DE–ENERGIZED
TR2	NORMALLY CLOSED, TIME DELAY RELAY CONTACT – CONTACT CLOSES AFTER TR2 IS DE–ENERGIZED
TR2	CONTACT OPENS AND CLOSES IN A TIMED REPEAT CYCLE

WIRING – CONNECTIONS

SYMBOL	DESCRIPTION
	PANEL OR EQUIPMENT WIRING
	FIELD WIRING
	CONDUCTORS – NOT CONNECTED
	CONDUCTORS – CONNECTED
	GROUND CONNECTION
	PLUG AND RECEPTACLE
	INCOMING LINE
123 123	TERMINAL BLOCKS WITH TERMINAL NUMBER AS SHOWN OR AS DETERMINED BY SUBMITTAL
123	DISCONNECTING TERMINAL BLOCK
	FUSE
SHIELD CONDUCTOR	SHIELDED CABLE

PLAN – SYMBOLS

SYMBOL	DESCRIPTION
	CONDUIT, EXPOSED
	CONDUIT, IN SLAB OR BELOW GRADE
	CONDUIT, CONCEALED IN WALL OR CEILING
	CONDUIT STUBBED OUT & CAPPED
	CONDUIT BENDS TOWARD OBSERVER
	CONDUIT BENDS AWAY FROM OBSERVER
	CONDUIT ENDS
J	FLEXIBLE CONDUIT CONNECTION FROM J–BOX TO EQUIPMENT
	CONDUIT CHANGE IN ELEVATION
G	BARE COPPER GROUND WIRE
G	GROUND CONNECTION BOLTED TYPE
G	GROUND CONNECTION EXOTHERMIC WELD TYPE
	DISCONNECT SWITCH
	FIELD MOUNTED DEVICE
	TELEPHONE/DATA RECEPTACLE 2 PORT TA568A, 2 CAT 6 CABLES
#	CONDUIT REFERENCE TO SCHEDULE
T	THERMOSTAT
E	EYS SEAL
J	JUNCTION BOX
B	CONDUIT SEALING BUSHING
	PULL BOX OF SIZE SHOWN (CHRISTY BOX SIZE MINIMUM)
A a #	LIGHTING FIXTURE # – CIRCUIT BREAKER NUMBER A – FIXTURE SCHEDULE REF. a – CONTROL SWITCH REFERENCE
WP #7 WP	DUPLEX RECEPTACLE # – CIRCUIT BREAKER NUMBER WP – WEATHERPROOF (IF SHOWN) GFI – GROUND FAULT TYPE
a M	TOGGLE SWITCH a – FIXTURES CONTROLLED 3 – 3 WAY M – MOTION DETECTOR T – TIMER SWITCH
	SPECIAL RECEPTACLE AS REQUIRED FOR EQUIPMENT TO BE CONNECTED

SWITCHES – OPERATOR

SYMBOL	DESCRIPTION
SW	TOGGLE OR DISCONNECT SWITCH
PB	PUSHBUTTON – NORMALLY OPEN, MOMENTARY ACTION
PB	PUSHBUTTON – NORMALLY CLOSED, MOMENTARY UNLESS LOS (LOCK OUT STOP) WHERE MECHANICALLY HELD
PB	PUSHBUTTON, MECHANICALLY CONNECTED, DOUBLE CIRCUIT – NORMALLY CLOSED AND NORMALLY OPEN
HAND OFF AUTO	SELECTOR SWITCH, 3 POSITION – CONTACT STATUS SHOWN EXISTS I.E. AT POSITION OF HAND, OFF, OR AUTO
	SELECTOR SWITCH, 2 POSITION – MIDDLE POSITION IS DELETED
	ALTERNATE METHOD: X00 = HAND 00X = AUTO, 0X0 = OFF
	POTENTIOMETER

DEVICES – FRONT PANEL

SYMBOL	DESCRIPTION
X	INDICATING LIGHT, LETTER "X" INDICATES COLOR: R=RED G=GREEN, A=AMBER, W=WHITE Y=YELLOW, B=BLUE
PTT X	INDICATING LIGHT, PUSH TO TEST

DEVICES – PROTECTIVE

SYMBOL	DESCRIPTION
S	CT SHORTING TERMINAL BLOCK
PTS	FUSED POTENTIAL TRANSFORMER, 208 / 120 V SECONDARY OR AS SHOWN
PM	POWER MONITOR
SPD	SURGE PROTECTION DEVICE
VMR	VOLTAGE MONITORING RELAY
OL	THERMAL OVERLOAD CONTACT
	THERMAL OVERLOAD ELEMENT
	FUSE
2	CONTACTOR, (NEMA) SIZE SHOWN

DEVICES – PROTECTIVE

SYMBOL	DESCRIPTION
(Y) xA xP xT	LOW VOLTAGE MOLDED CASE, INSULATED CASE OR POWER CIRCUIT BREAKER. RATINGS AS SHOWN IN DRAWINGS AND AS DEFINED BELOW: xA: CIRCUIT BREAKER AMERAGE xAT: AMPERAGE TRIP xAF: AMPERAGE FRAME xP: NUMBER OF POLES xT: TRIP PROTECTION MCP: MOTOR CIRCUIT PROTECTION TM: THERMAL MAGNETIC L: LONG TIME DELAY S: SHORT TIME DELAY I: INSTANTANEOUS TRIP G: GROUND FAULT A: ARC FLASH PROTECTION 100% DUTY RATED
100% NO MARKINGS	PER SPECIFICATIONS
(S) (K) (M) (E)	y: BREAKER FEATURES / OPTIONS – SHUNT TRIP – KIRK–KEY INTERLOCK – MANUALLY CHARGED PUSHBUTTON OPERATION – ELECTRICALLY CHARGED PUSHBUTTON OPERATION
52	MEDIUM VOLTAGE CIRCUIT BREAKER TRIP FUNCTIONS PER DRAWINGS AND SPECIFICATIONS
MFR	MULTIFUNCTION RELAY PER SPECIFICATIONS

MISCELLANEOUS ABBREVIATIONS

&	AND	N	NEUTRAL
@	AT	NC	NORMALLY CLOSED
A	AMBER, AMPERES	NDL	NEUTRAL DISCONNECT LINK
AC	ALTERNATING CURRENT	NHC	NORMALLY HELD CLOSED
ACK	ACKNOWLEDGE	NHO	NORMALLY HELD OPEN
AFF	ABOVE FINISHED FLOOR	NIC	NOT IN CONTRACT
AH	AMP HOUR	NL	NIGHT LIGHT
AI	ANALOG INPUT	NO	NORMALLY OPEN
AIC	AMP INTERRUPTING CAPACITY SYMMETRICAL	NTS	NOT TO SCALE
AM	AMP METER	(N)	NEW
AO	ANALOG OUTPUT	OC	ON CENTER
AWG	AMERICAN WIRE GUAGE	OI, OIT	OPERATOR INTERFACE
ATS	AUTOMATIC TRANSFER SWITCH	OL	OVERLOAD
BATT	BATTERY	ORP	OXIDATION REDUCTION POTENTIAL
BFC	BELOW FINISHED CEILING	P	POLE
BOD	BIOCHEMICAL OXYGEN DEMAND	PB	PUSHBUTTON
BPF	BAND PASS FILTER	PBX	PULL BOX
BYP	BYPASS	PDB	POWER DISTRIBUTION BLOCK
C	CONDUIT	PE	POLYETHYLENE
CAP	CAPACITOR	PF	POWER FACTOR
CB	CIRCUIT BREAKER	PFR	POWER FAIL RELAY
CKT	CIRCUIT	PH	HYDROGEN ION CONCENTRATION
COAX	COAXIAL CABLE	PLC	PROGRAMMABLE LOGIC CONTROLLER
COMM	COMMUNICATION	PM	POWER MONITOR
CR	CONTROL RELAY	PNL	PANEL
CT	CURRENT TRANSFORMER	POT	POTENTIOMETER
CS	CONSTANT SPEED	PR	PAIR, TWISTED AND SHIELDED
CU	COPPER	PRI	PRIMARY
DC	DIRECT CURRENT	PROVIDE	FURNISH, INSTALL, AND CONNECT
DET	DETAIL	PS	PRESSURE SWITCH
DI	DIGITAL INPUT	PT	POTENTIAL TRANSFORMER
DISC	DISCONNECT	PTT	PUSH TO TEST
DO	DIGITAL OUTPUT	PVC	POLYVINYLCHLORIDE
DPDT	DOUBLE POLE DOUBLE THROW	PWR	POWER
DWG	DRAWING	REF	REFERENCE
E–DTL	ELECTRICAL DRAWING DETAIL	RFI	RADIO FREQUENCY INTERFERENCE
ELEV	ELEVATION	RMS	ROOT MEAN SQUARE
ENET	ETHERNET	RTD	RESISTANCE TEMPERATURE DETECTOR
ETM	ELAPSED TIME METER	RST	RESET
ESW	ETHERNET SWITCH	RVAT	REDUCE VOLTAGE AUTO TRANSFORMER
(E)	EXISTING	RTU	REMOTE TERMINAL UNIT
FCS	FIELD CONTROL STATION	(R)	REWIRE, RELOCATE, REVISE, REUSE
FLA	FULL LOAD AMPS	SCH	SCHEDULE
FLEX	FLEXIBLE LIQUID TIGHT CONDUIT	SEC	SECONDARY, SECOND
FS	FULL SPEED, FLOW SWITCH	SECS	SECONDS
FVNR	FULL VOLTAGE NON–REVERSING	SEL	SELECTOR
FVR	FULL VOLTAGE REVERSING	SFA	SERVICE FACTOR AMPS
FWD	FORWARD	SPEC	SPECIFICATION
(F)	FUTURE	SPD	SURGE PROTECTIVE DEVICE
GALV	GALVANIZED	SS	STAINLESS STEEL
GFI	GROUND FAULT INTERRUPTER	SSRC	STAINLESS STEEL RIGID CONDUIT
GND	GROUND	SSS	SOLID STATE STARTER
GRS	GALVANIZED RIGID STEEL CONDUIT	STT	START
GRS–PVC	PVC COATED GRS CONDUIT	STP	STOP
HI	HIGH	SV	SOLENOID VALVE
HIM	HUMAN INTERFACE MODULE	SW	SWITCH
HOA	HAND OFF AUTO	SWBD	SWITCHBOARD
HP	HORSE POWER	SYM	SYMMETRICAL
HPS	HIGH PRESSURE SODIUM	TB	TERMINAL BLOCK
HS	HAND SWITCH	TC	TIME CLOCK
HTR	HEATER	TDOD	TIME DELAY ON DE–ENERGIZATION
HZ	HERTZ	TDOE	TIME DELAY ON ENERGIZATION
HZD	HAZARD	TELCO	TELEPHONE COMPANY
I	INTERLOCK	TM	THERMAL MAGNETIC
I/O	INPUT/OUTPUT	TEMP	TEMPERATURE
INST	INSTANTANEOUS	TR	TIME DELAY RELAY
ISR	INTRINSICALLY SAFE RELAY	TRIAD	TWISTED AND SHIELDED 3 CONDUCTOR
IS	INTRINSICALLY SAFE	TS	TEMPERATURE SWITCH
J	JUNCTION BOX	TSPR	TWISTED AND SHIELDED PAIR
K	KILO, PREFIX	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
LA	LIGHTNING ARRESTOR	TYP	TYPICAL
LC	LIGHTING CONTACTOR	UG	UNDERGROUND
LEL	LOWER EXPLOSION LIMIT	ULH	ULTRA LOW HARMONIC
LOS	LOCK OUT STOP	UON	UNLESS OTHERWISE NOTED
LP	LIGHTING PANELBOARD	UPS	UNINTERRUPTIBLE POWER SUPPLY
LS	LIMIT SWITCH	V	VOLTAGE
M	MOTOR CONTACTOR	VA	VOLT AMPS
MAG	MAGNETIC FLOWMETER	VAR	VOLT AMPS REACTIVE
MAX	MAXIMUM	VFD	VARIABLE FREQUENCY DRIVE
MCC	MOTOR CONTROL CENTER	VLV	VALVE
MCM	THOUSAND CIRCULAR MILS	VM	VOLTMETER
MCP	MOTOR CIRCUIT PROTECTOR	VMR	VOLTAGE MONITOR RELAY
MCS	MOLDED CASE SWITCH	VR	VOLTAGE RELAY
MH	MANHOLE	W	WATTS
MIN	MINIMUM, MINUTE	WP	WEATHER PROOF, NEMA 3R
MODEM	MODEM	WTP	WATER TREATMENT PLANT
MOV	MOTOR OPERATED VALVE	WWTP	WASTE WATER TREATMENT PLANT
MTR	MOTOR	XFMR	TRANSFORMER
MUX	MULTIPLEXER	Z	IMPEDANCE
MV	MERCURY VAPOR, MEDIUM VOLTAGE	ZS	LIMIT SWITCH

EchoWater Facility Engineering Design

SUB CONSULTANT

FRISCH ENGINEERING, INC.
CONSULTING ELECTRICAL ENGINEERS
13405 FOLSOM BLVD, UNIT 600
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PH 916 353 1025
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FILE: 2308A-E01.DWG
DATE: SEP 17, 2024 TIME: 4:34:37PM

REGISTERED PROFESSIONAL ENGINEER
THOMAS P. FRISCH
No. E15761
ELECTRICAL
STATE OF CALIFORNIA

SACRAMENTO AREA SEWER DISTRICT

EchoWater Resource Recovery Facility

X09 OUTFALL SWITCHGEAR REPLACEMENT PROJECT

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MARK	DATE	DESCRIPTION

ISSUE BLOCK

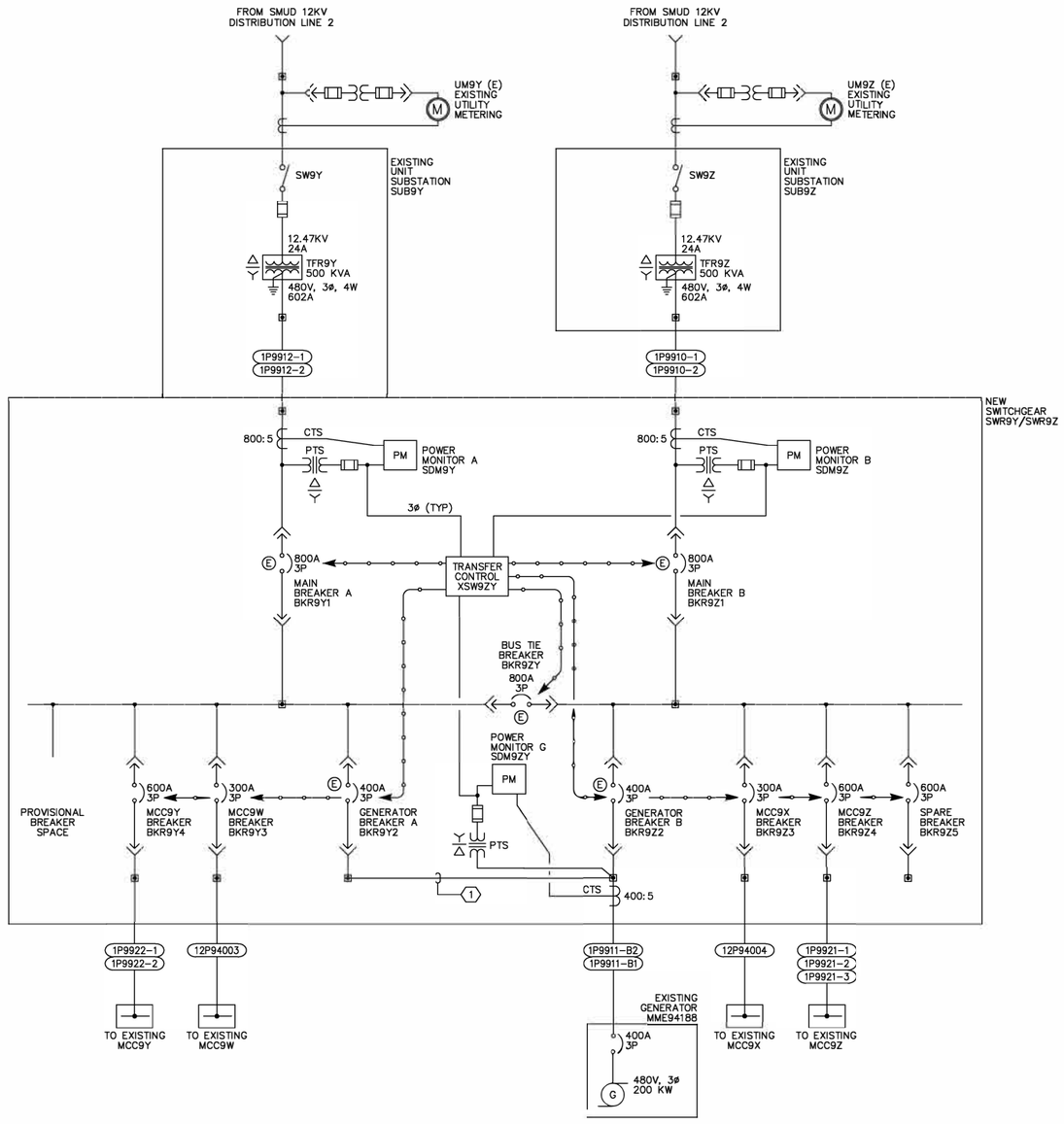
DESIGNED T. FRISCH
DRAWN N. CONANT
CHECKED M. FRISCH
APPROVED #####
FILENAME ####
DESIGNER PROJECT NUMBER ###
CONTRACT NUMBER ###
CONTRACT SEQUENCE NUMBER ###
DISCIPLINE ELECTRICAL

ELECTRICAL SYMBOLS AND ABBREVIATIONS

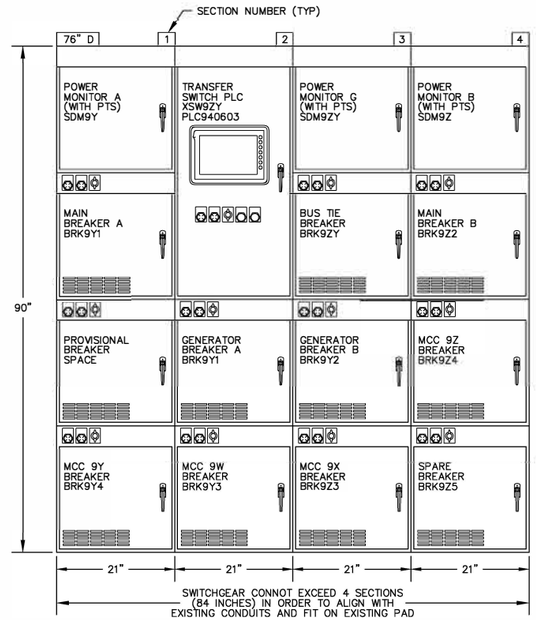
DRAWING NUMBER **E01**

2 OF 10

SCALE IN INCHES 0 1/2 1 2 4 (IF SCALE BAR IS NOT 4", SCALE ACCORDINGLY)

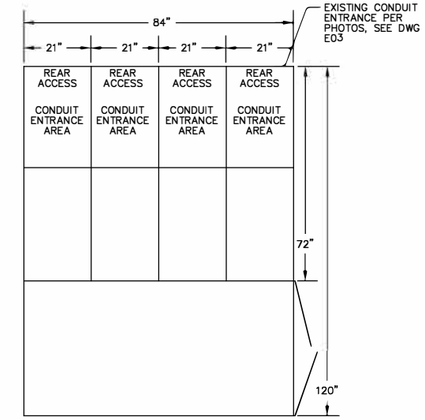


MAIN SWITCHGEAR SWR9Y/9Z ONE-LINE



SWITCHGEAR SWR9ZY ELEVATION

NEMA 3R, WALK-IN
ALL COMPONENTS ARE NEW



SWITCHGEAR WALK-IN ENCLOSURE PLAN

1. ALL DIMENSIONS ARE APPROXIMATE. ACTUAL DIMENSIONS SHALL BE PER MANUFACTURER APPROVED IN SUBMITTAL.

LEGEND:

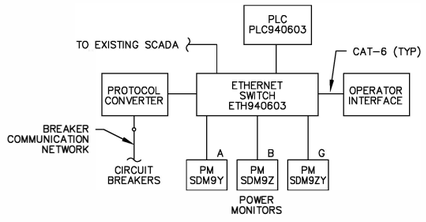
PTS — POTENTIAL TRANSFORMER WITH FUSE PROTECTION ON PRIMARY AND SECONDARY.

(E) — ELECTRICALLY OPERATED BREAKER IN TRANSFER CONTROL SCHEME.

CIRCUIT BREAKER COMMUNICATION NETWORK.

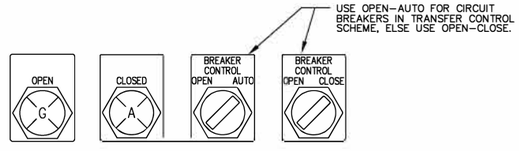
NOTES REFERENCED IN DRAWING:

(1) #500 CABLES SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR.



ETHERNET COMMUNICATION BLOCK DIAGRAM

ALL COMPONENTS ARE NEW



BUTTON LAYOUT

BREAKER CUBICLES

BUTTON LAYOUT

ATS CONTROL SECTION

SCALE IN INCHES 0 1/2 1 2 4 (IF SCALE BAR IS NOT 4", SCALE ACCORDINGLY)

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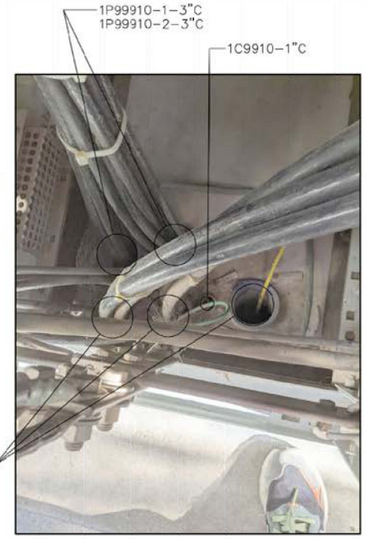
DISCIPLINE ELECTRICAL

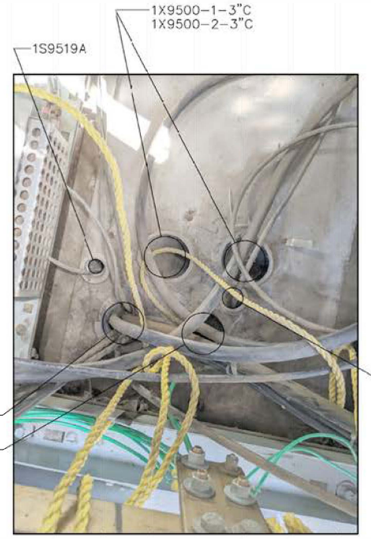
MAIN SWITCHGEAR SWR9ZY ONE-LINE AND ELEVATION

DRAWING NUMBER **E02**

3 OF 10



SECTION 4 CONDUIT ENTRY



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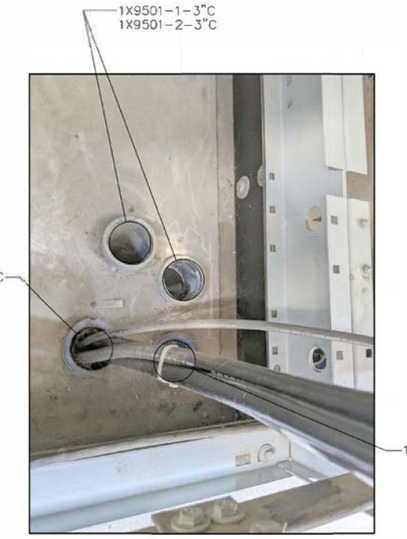

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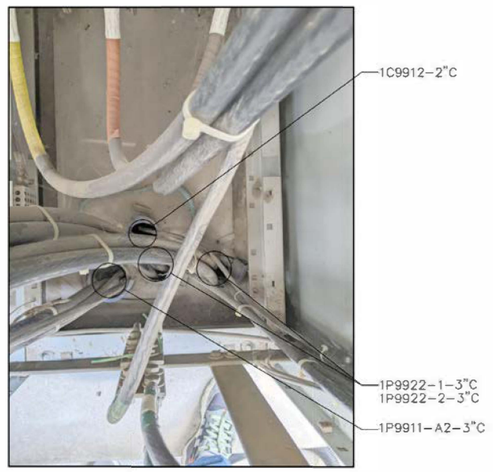
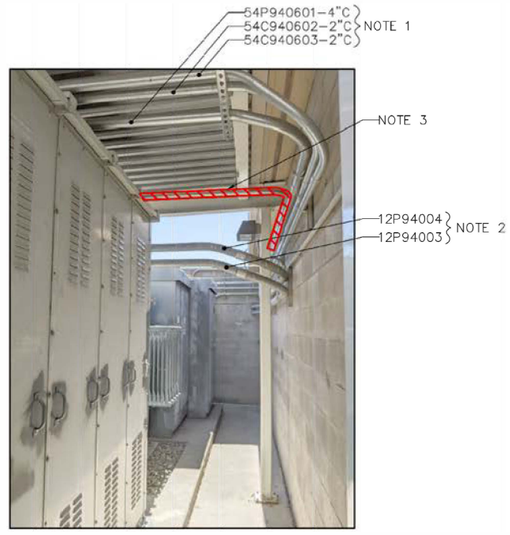


SECTION 1 CONDUIT ENTRY



ABOVE GRADE CONDUIT AT REAR OF SWITCHGEAR

ABOVE GRADE CONDUIT AT RIGHT OF SWITCHGEAR

TRANSFORMER TFR9Z PULL CABINET

EchoWater Facility Engineering Design

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DISCIPLINE ###

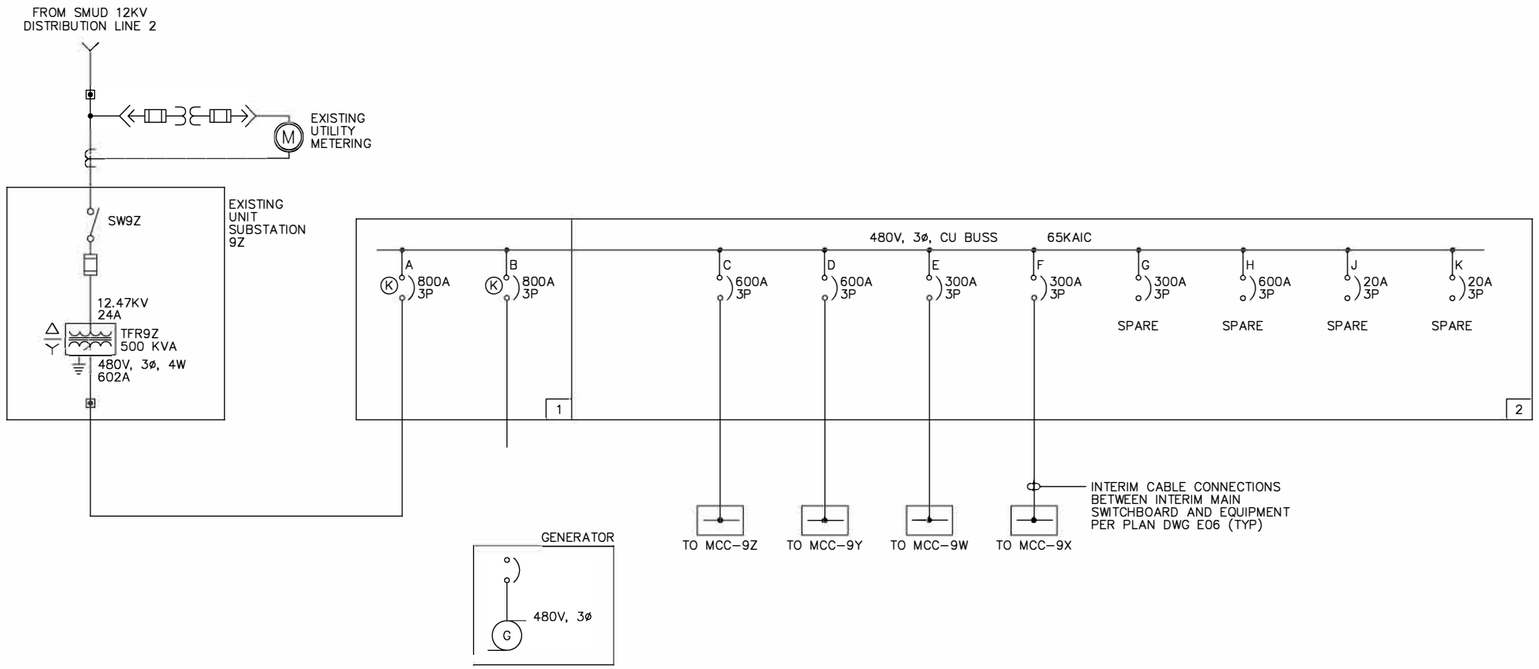
SWITCHGEAR CONDUIT ENTRY PHOTOS

DRAWING NUMBER **E03**

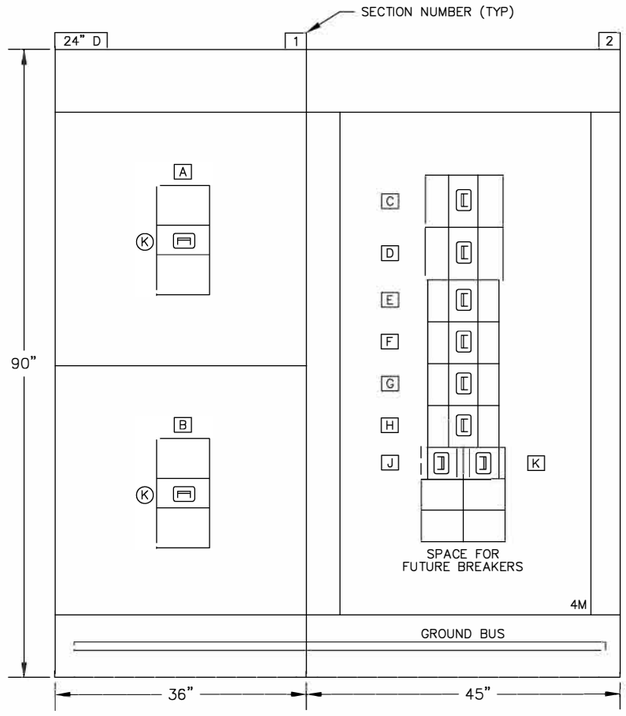
4 OF 10

SCALE IN INCHES 0 1/2 1 2

4 (IF SCALE BAR IS NOT 4", SCALE ACCORDINGLY)

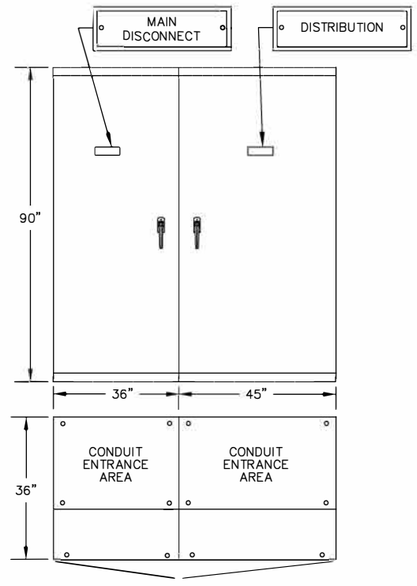


INTERIM MAIN SWITCHBOARD ONE-LINE



INTERIM MAIN SWITCHBOARD ELEVATION

NEMA 3R, OUTDOOR



INTERIM MAIN SWITCHBOARD WEATHERWRAP

1. ALL DIMENSIONS ARE APPROXIMATE. ACTUAL DIMENSIONS SHALL BE PER MANUFACTURER APPROVED IN SUBMITTAL.

EchoWater Facility
Engineering Design

SUB CONSULTANT

FRISCH ENGINEERING, INC.
CONSULTING ELECTRICAL ENGINEERS
13405 FOLSOM BLVD, UNIT 600
FOLSOM, CA 95630
PH 916 353 1025
WWW.FRISCHENGINEERING.COM

FILE: 2308A-E01.DWG
DATE: SEP 17, 2024 TIME: 4:34:37PM

REGISTERED PROFESSIONAL ENGINEER
THOMAS P. FRISCH
No. E15761
ELECTRICAL
STATE OF CALIFORNIA

SACRAMENTO AREA SEWER DISTRICT

EchoWater Resource Recovery Facility

X09 OUTFALL SWITCHGEAR REPLACEMENT PROJECT

MARK	DATE	DESCRIPTION
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ISSUE BLOCK

DESIGNED T. FRISCH
DRAWN N. CONANT
CHECKED M. FRISCH
APPROVED #####
FILENAME #####
DESIGNER PROJECT NUMBER ###
CONTRACT NUMBER ###
CONTRACT SEQUENCE NUMBER ###
DISCIPLINE ###

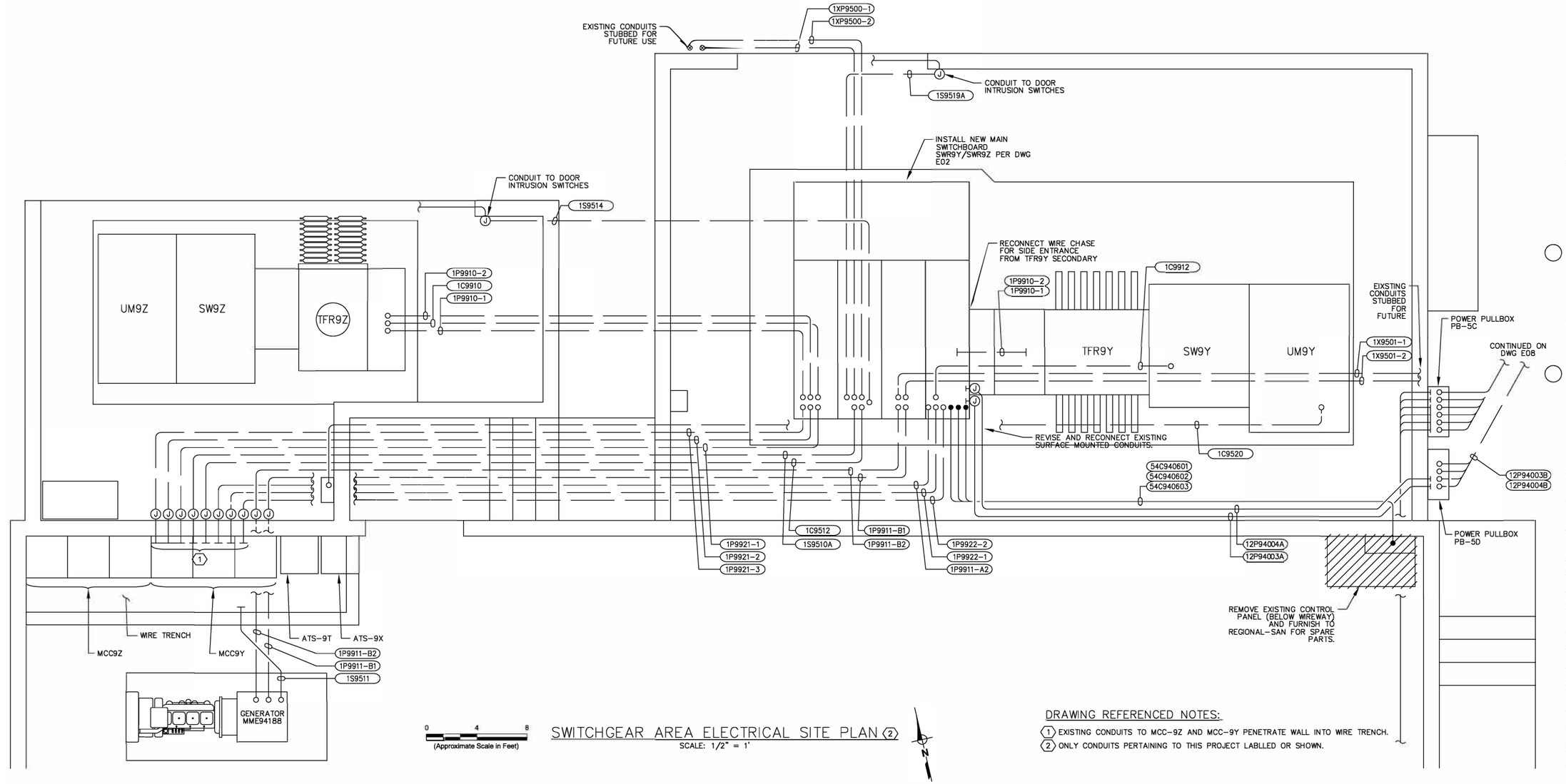
INTERIM MAIN SWITCHBOARD ONE-LINE AND ELEVATION

DRAWING NUMBER **E04**

5 OF 10

SCALE IN INCHES 0 1/2 1 2
4 (IF SCALE BAR IS NOT 4", SCALE ACCORDINGLY)

ELECTRICAL PLAN NOTES:
1. SEE ELECTRICAL SYMBOLS AND ABBREVIATIONS DRAWING FOR SYMBOL DEFINITION.
2. ALL WORK SHALL CONFORM TO LOCAL CODES AND NATIONAL ELECTRIC CODE.
3. SITEPLAN ACCURATE FOR ELECTRICAL WORK ONLY. COORDINATE WITH OTHER DISCIPLINES.
4. CONDUITS SIZE, TYPE AND FILL DEFINED BY TAG NAME IN RACEWAY SCHEDULE.



0 4 8
(Approximate Scale in Feet)

SWITCHGEAR AREA ELECTRICAL SITE PLAN ⟨2⟩
SCALE: 1/2" = 1'

DRAWING REFERENCED NOTES:
⟨1⟩ EXISTING CONDUITS TO MCC-9Z AND MCC-9Y PENETRATE WALL INTO WIRE TRENCH.
⟨2⟩ ONLY CONDUITS PERTAINING TO THIS PROJECT LABLLED OR SHOWN.

EchoWater Facility Engineering Design

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STATE OF CALIFORNIA

SACRAMENTO AREA SEWER DISTRICT

EchoWater Resource Recovery Facility

X09 OUTFALL SWITCHGEAR REPLACEMENT PROJECT

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MARK	DATE	DESCRIPTION

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DRAWN N. CONANT
CHECKED M. FRISCH
APPROVED #####
FILENAME ####
DESIGNER PROJECT NUMBER ###
CONTRACT NUMBER ###
CONTRACT SEQUENCE NUMBER ###
DISCIPLINE ###

SWITCHGEAR AREA ELECTRICAL SITE PLAN

DRAWING NUMBER **E05**

6 OF 10

SCALE IN INCHES 0 1/2 1 2 4 (IF SCALE BAR IS NOT 4", SCALE ACCORDINGLY)

Sheet Set Manager: TERTIARY FILTRATION FACILITIES BASIS OF DESIGN
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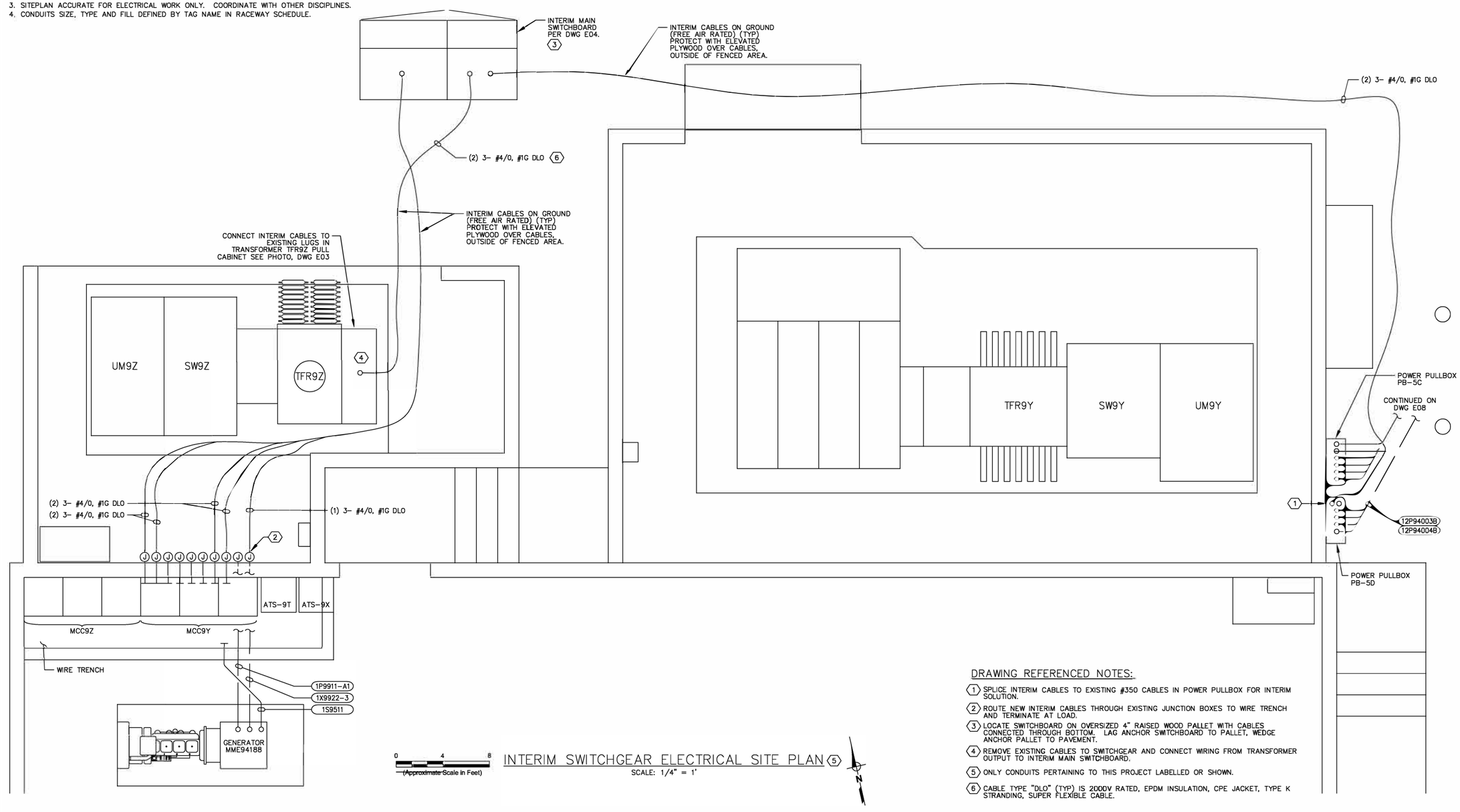
ELECTRICAL PLAN NOTES:

1. SEE ELECTRICAL SYMBOLS AND ABBREVIATIONS DRAWING FOR SYMBOL DEFINITION.
2. ALL WORK SHALL CONFORM TO LOCAL CODES AND NATIONAL ELECTRIC CODE.
3. SITEPLAN ACCURATE FOR ELECTRICAL WORK ONLY. COORDINATE WITH OTHER DISCIPLINES.
4. CONDUITS SIZE, TYPE AND FILL DEFINED BY TAG NAME IN RACEWAY SCHEDULE.



0 4 8
(Approximate Scale In Feet)

INTERIM SWITCHGEAR ELECTRICAL SITE PLAN (5)

SCALE: 1/4" = 1'

DRAWING REFERENCED NOTES:

1. SPLICE INTERIM CABLES TO EXISTING #350 CABLES IN POWER PULLBOX FOR INTERIM SOLUTION.
2. ROUTE NEW INTERIM CABLES THROUGH EXISTING JUNCTION BOXES TO WIRE TRENCH AND TERMINATE AT LOAD.
3. LOCATE SWITCHBOARD ON OVERSIZED 4" RAISED WOOD PALLET WITH CABLES CONNECTED THROUGH BOTTOM. LAG ANCHOR SWITCHBOARD TO PALLET, WEDGE ANCHOR PALLET TO PAVEMENT.
4. REMOVE EXISTING CABLES TO SWITCHGEAR AND CONNECT WIRING FROM TRANSFORMER OUTPUT TO INTERIM MAIN SWITCHBOARD.
5. ONLY CONDUITS PERTAINING TO THIS PROJECT LABELLED OR SHOWN.
6. CABLE TYPE "DLO" (TYP) IS 2000V RATED, EPDM INSULATION, CPE JACKET, TYPE K STRANDING, SUPER FLEXIBLE CABLE.

SCALE IN INCHES 0 1/2 1 2
4 (IF SCALE BAR IS NOT 4", SCALE ACCORDINGLY)

EchoWater Facility
Engineering Design

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STATE OF CALIFORNIA

SACRAMENTO AREA SEWER DISTRICT

EchoWater Resource Recovery Facility

X09 OUTFALL SWITCHGEAR REPLACEMENT PROJECT

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DRAWN N. CONANT
CHECKED M. FRISCH
APPROVED #####
FILENAME ####
DESIGNER PROJECT NUMBER ###
CONTRACT NUMBER ###
CONTRACT SEQUENCE NUMBER ###
DISCIPLINE ###

INTERIM SWITCHGEAR ELECTRICAL SITE PLAN

DRAWING NUMBER E06

7 OF 10

Sheet Set Manager: TERTIARY FILTRATION FACILITIES BASIS OF DESIGN
Path: R:\Engineering\Projects\X09 Switchgear Replacement Project\60% Design Drawings And Specs Filename: 008 E06 INTERIM SITE PLAN.dwg Plot Date: November 25, 2024 - 9:35 AM CADD User: Long, Brett

RACEWAY SCHEDULE

REV	DETAILS -- CONDUIT TAG NO.	FROM	TO	QTY	SIZE	TYPE	POWER WIRE QTY	POWER WIRE SIZE	CONTROL WIRE QTY	CONTROL WIRE SIZE	GROUND SIZE	NOTES
	12P94003-A, B	SWITCHGEAR SWR9ZY	MCC-9W	1	3"	(E)	3	#350	–	–	#1/0	VIA PB-50
	12P94004-A, B	SWITCHGEAR SWR9ZY	MCC-9X	1	3"	(E)	3	#350	–	–	#1/0	VIA PB-50
	1C 9512	SWITCHGEAR SWR9ZY	MCC-9Y	1	3"	(E)	–	–	–	–	–	EXISTING WIRE RECONNECT
	1C 9520	UTILITY METERING UM9Y	JUNCTION BOX	1	1"	(E)	–	–	–	–	–	EXISTING WIRE NOT USED
	1C 9910	TRANSFORMER TFR9Z PULLBOX	SWITCHGEAR SWR9ZY	1	1"	(E)	–	–	–	–	–	EXISTING WIRE NOT USED
	1C 9912	MV SWITCH SW9Y	SWITCHGEAR SWR9ZY	1	2"	(E)	–	–	–	–	–	EXISTING WIRE NOT USED
	1P 9910- 1	TRANSFORMER TFR9Z PULLBOX	SWITCHGEAR SWR9ZY	1	3"	(E)	6	#250	–	–	#1/0	
	1P 9910- 2	TRANSFORMER TFR9Z PULLBOX	SWITCHGEAR SWR9ZY	1	3"	(E)	6	#250	–	–	#1/0	
	1P 9911- B1	GENERATOR MME94188	SWITCHGEAR SWR9ZY	1	3"	(E)	3	#4/0	–	–	#1	
	1P 9911- B2	GENERATOR MME94188	SWITCHGEAR SWR9ZY	1	3"	(E)	3	#4/0	–	–	#1	
	1P 9912- 1	TRANSFORMER TFR9Y	SWITCHGEAR SWR9ZY	1	–	–	3	#500	–	–	#1/0	ROUTE THRU (E) WIRE CHASE
	1P 9912- 2	TRANSFORMER TFR9Y	SWITCHGEAR SWR9ZY	1	–	–	3	#500	–	–	#1/0	ROUTE THRU (E) WIRE CHASE
	1P 9921- 1	SWITCHGEAR SWR9ZY	MCC-9Z	1	3"	(E)	3	#350	–	–	#1/0	
	1P 9921- 2	SWITCHGEAR SWR9ZY	MCC-9Z	1	3"	(E)	3	#350	–	–	#1/0	
	1P 9921- 3	SWITCHGEAR SWR9ZY	MCC-9Z	1	3"	(E)	–	–	–	–	–	PULL ROPE
	1P 9922- 1	SWITCHGEAR SWR9ZY	MCC-9Y	1	3"	(E)	3	#350	–	–	#1/0	
	1P 9922- 2	SWITCHGEAR SWR9ZY	MCC-9Y	1	3"	(E)	3	#350	–	–	#1/0	
	1S 9510- A	SWITCHGEAR SWR9ZY	MCC-9Z	1	3"	(E)	–	–	–	–	–	EXISTING WIRE RECONNECT
	1S 9514	SWITCHGEAR SWR9ZY	SW9Z AREA INTRUSION SWITCHES	1	1"	(E)	–	–	–	–	–	EXISTING WIRE RECONNECT
	1S 9519- A	SWITCHGEAR SWR9ZY	SWR9ZY AREA INTRUSION SWITCHES	1	3/4"	(E)	–	–	–	–	–	EXISTING WIRE RECONNECT
	1X 9922- 3	SWITCHGEAR SWR9ZY	MCC-9Y	1	3"	(E)	–	–	–	–	–	FOR FUTURE USE
	IX 9500- 1	SWITCHGEAR SWR9ZY	CAP OUTSIDE FENCE	1	3"	(E)	–	–	–	–	–	FOR FUTURE USE
	IX 9500- 2	SWITCHGEAR SWR9ZY	CAP OUTSIDE FENCE	1	3"	(E)	–	–	–	–	–	FOR FUTURE USE
	54C 9406- 01	SWITCHGEAR SWR9ZY	CONTROL PANEL CPNL940603	1	4"	(E)	–	–	–	–	–	REMOVE WIRE
	54C 9406- 02	SWITCHGEAR SWR9ZY	CONTROL PANEL CPNL940603	1	2"	(E)	–	–	2	CAT-6	–	REPLACE WIRE
	54C 9406- 03	SWITCHGEAR SWR9ZY	CONTROL PANEL CPNL940603	1	2"	(E)	–	–	–	–	–	REMOVE WIRE
	IX 9501- 1	SWITCHGEAR SWR9ZY	CAPPED OUTSIDE FENCE	1	3"	(E)	–	–	–	–	–	FOR FUTURE USE
	IX 9501- 2	SWITCHGEAR SWR9ZY	CAPPED OUTSIDE FENCE	1	3"	(E)	–	–	–	–	–	FOR FUTURE USE

EchoWater Facility
Engineering Design

SUB CONSULTANT

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FOLSOM, CA 95630
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WWW.FRISCHENGINEERING.COM
FILE: 2308A-E01.DWG
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REGISTERED PROFESSIONAL ENGINEER
THOMAS P. FRISCH
No. E15761
ELECTRICAL
STATE OF CALIFORNIA

SACRAMENTO AREA SEWER DISTRICT

EchoWater Resource
Recovery Facility

X09 OUTFALL SWITCHGEAR REPLACEMENT PROJECT

MARK	DATE	DESCRIPTION
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ISSUE BLOCK

DESIGNED T. FRISCH
DRAWN N. CONANT
CHECKED M. FRISCH
APPROVED #####
FILENAME ####
DESIGNER PROJECT NUMBER ###
CONTRACT NUMBER ###
CONTRACT SEQUENCE NUMBER ###
DISCIPLINE ELECTRICAL

ELECTRICAL RACEWAY SCHEDULE

DRAWING NUMBER **E09**

8 OF 10

SCALE IN INCHES 0 1/2 1 2 4 (IF SCALE BAR IS NOT 4", SCALE ACCORDINGLY)

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Path: \\pwn2\regional_san_shared\Engineering\Projects\X09 Switchgear Replacement Project\60% Design Drawings And Specs Filename: 011 E09 RACEWAY SCHEDULE.dwg Plot Date: August 27, 2025 - 12:46 PM CADD User: Melendez, Jorge

ELECTRICAL PLAN NOTES:

1. SEE ELECTRICAL SYMBOLS AND ABBREVIATIONS DRAWING FOR SYMBOL DEFINITION.
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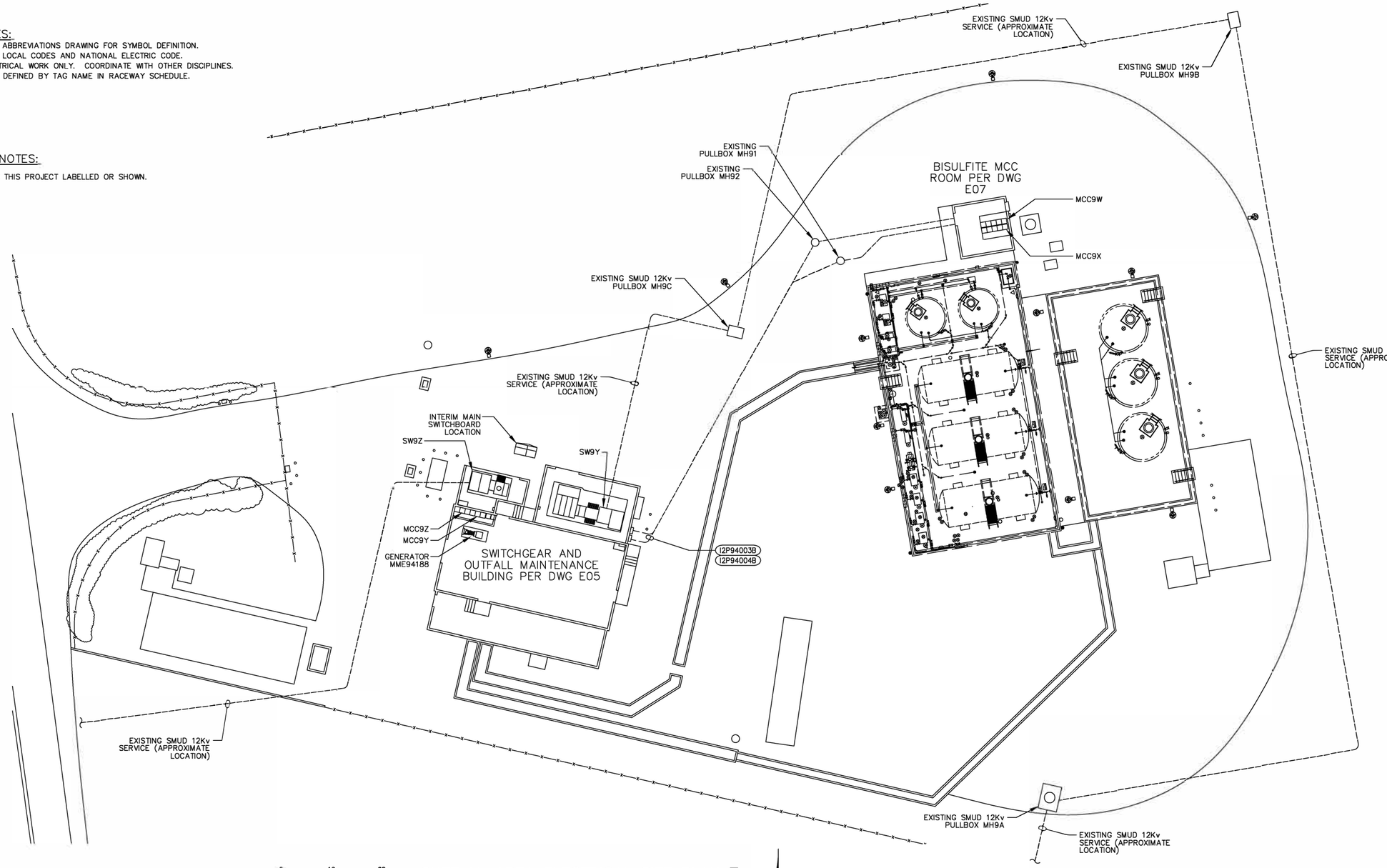
DRAWING REFERENCED NOTES:

(1) ONLY CONDUITS PERTAINING TO THIS PROJECT LABELLED OR SHOWN.



0 16 32
(Approximate Scale in Feet)

OUTFALL AREA ELECTRICAL SITE PLAN (1)

SCALE: 1/16" = 1'

N

EchoWater Facility Engineering Design

SUB CONSULTANT

FRISCH ENGINEERING, INC.
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13405 FOLSOM BLVD, UNIT 600
FOLSOM, CA 95630
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No. E15761
ELECTRICAL
STATE OF CALIFORNIA

SACRAMENTO AREA SEWER DISTRICT

EchoWater Resource Recovery Facility

X09 OUTFALL SWITCHGEAR REPLACEMENT PROJECT

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ISSUE BLOCK

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DRAWN	N. CONANT
CHECKED	M. FRISCH
APPROVED	####
FILENAME	####
DESIGNER PROJECT NUMBER	###
CONTRACT NUMBER	###
CONTRACT SEQUENCE NUMBER	###
DISCIPLINE	ELECTRICAL

OUTFALL AREA ELECTRICAL SITE PLAN

DRAWING NUMBER **E08** 9 OF 10

SCALE IN INCHES 0 1/2 1 2
4 (IF SCALE BAR IS NOT 4", SCALE ACCORDINGLY)

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RACEWAY SCHEDULE

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	12P94004-A, B	SWITCHGEAR SWR9ZY	MCC-9X	1	3"	(E)	3	#350	–	–	#1/0	VIA PB-50
	1C 9512	SWITCHGEAR SWR9ZY	MCC-9Y	1	3"	(E)	–	–	–	–	–	EXISTING WIRE RECONNECT
	1C 9520	UTILITY METERING UM9Y	JUNCTION BOX	1	1"	(E)	–	–	–	–	–	EXISTING WIRE NOT USED
	1C 9910	TRANSFORMER TFR9Z PULLBOX	SWITCHGEAR SWR9ZY	1	1"	(E)	–	–	–	–	–	EXISTING WIRE NOT USED
	1C 9912	MV SWITCH SW9Y	SWITCHGEAR SWR9ZY	1	2"	(E)	–	–	–	–	–	EXISTING WIRE NOT USED
	1P 9910- 1	TRANSFORMER TFR9Z PULLBOX	SWITCHGEAR SWR9ZY	1	3"	(E)	6	#250	–	–	#1/0	
	1P 9910- 2	TRANSFORMER TFR9Z PULLBOX	SWITCHGEAR SWR9ZY	1	3"	(E)	6	#250	–	–	#1/0	
	1P 9911- B1	GENERATOR MME94188	SWITCHGEAR SWR9ZY	1	3"	(E)	3	#4/0	–	–	#1	
	1P 9911- B2	GENERATOR MME94188	SWITCHGEAR SWR9ZY	1	3"	(E)	3	#4/0	–	–	#1	
	1P 9912- 1	TRANSFORMER TFR9Y	SWITCHGEAR SWR9ZY	1	–	–	3	#500	–	–	#1/0	ROUTE THRU (E) WIRE CHASE
	1P 9912- 2	TRANSFORMER TFR9Y	SWITCHGEAR SWR9ZY	1	–	–	3	#500	–	–	#1/0	ROUTE THRU (E) WIRE CHASE
	1P 9921- 1	SWITCHGEAR SWR9ZY	MCC-9Z	1	3"	(E)	3	#350	–	–	#1/0	
	1P 9921- 2	SWITCHGEAR SWR9ZY	MCC-9Z	1	3"	(E)	3	#350	–	–	#1/0	
	1P 9921- 3	SWITCHGEAR SWR9ZY	MCC-9Z	1	3"	(E)	–	–	–	–	–	PULL ROPE
	1P 9922- 1	SWITCHGEAR SWR9ZY	MCC-9Y	1	3"	(E)	3	#350	–	–	#1/0	
	1P 9922- 2	SWITCHGEAR SWR9ZY	MCC-9Y	1	3"	(E)	3	#350	–	–	#1/0	
	1S 9510- A	SWITCHGEAR SWR9ZY	MCC-9Z	1	3"	(E)	–	–	–	–	–	EXISTING WIRE RECONNECT
	1S 9514	SWITCHGEAR SWR9ZY	SW9Z AREA INTRUSION SWITCHES	1	1"	(E)	–	–	–	–	–	EXISTING WIRE RECONNECT
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	IX 9500- 2	SWITCHGEAR SWR9ZY	CAP OUTSIDE FENCE	1	3"	(E)	–	–	–	–	–	FOR FUTURE USE
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DISCIPLINE ELECTRICAL

ELECTRICAL RACEWAY SCHEDULE

DRAWING NUMBER **E09**

10 OF 10

SCALE IN INCHES 0 1/2 1 2 4 (IF SCALE BAR IS NOT 4", SCALE ACCORDINGLY)

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