CONTRACT DRAWINGS FOR

CITY OF STOCKTON
MUNICIPAL UTILITIES DEPARTMENT

ELECTRICAL UPGRADES
WATER WELL NO. 26

PROJECT No. UH24008
MARCH 2024

LOCATION

VICINITY MAP

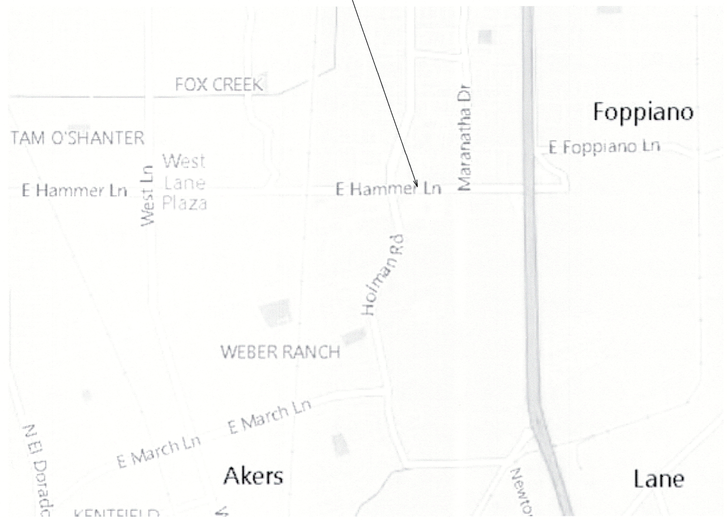
MUNICIPAL UTILITIES DEPARTMENT
CITY OF STOCKTON, CALIFORNIA

RECOMMEND BY: _____ DATE 3/19/24
DEPUTY DIRECTOR / ENGINEERING SERVICES MANAGER

APPROVED BY: _____ DATE 3/19/24
DIRECTORY OF MUNCIPAL UTILITIES

Sheet List	
Sheet Number	Sheet Name
CS	COVER SHEET / INDEX SHEET
E1	ELECTRICAL INFORMATION
E2	ELECTRICAL SITE PLAN
E2.1	PG&E SERVICE DRAWING
E3	ELECTRICAL PLAN
E4	CONTROL SYSTEM
E5	SCADA CONNECTIONS

LOCATION



VICINITY MAP

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REGISTERED PROFESSIONAL ENGINEER
RICHARD C. SMITH
No. E14303
Exp. 6-30-25
ELECTRICAL
STATE OF CALIFORNIA

DATE: 3/8/2024 10:44:31 AM

ORIGINAL DRAWING SCALE
0 ½" 1"

DEPARTMENT OF MUNICIPAL UTILITIES
CITY OF STOCKTON, CALIFORNIA

APPROVED BY: _____ DATE: 3/19/24
ENGINEERING SERVICES MANAGER, DEPARTMENT OF MUNICIPAL UTILITIES

CITY OF STOCKTON
STOCKTON, CALIFORNIA

WELL 26
COVER SHEET / INDEX SHEET

SHEET NO. CS
OF SHEETS
PROJECT NO. UH24008

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ELECTRICAL SPECIFICATIONS

GENERAL NOTES:

1. ELECTRICAL INSTALLATION SHALL COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, INCLUDING THE FOLLOWING:
TITLE 24, CCR, PART 2, 2019 CBC
TITLE 24, CCR, PART 3, 2019 CEC
TITLE 24, CCR, PART 4, 2019 CMC
TITLE 24, CCR, PART 9, 2019 CFC
ALL APPLICABLE LOCAL CODES.

2. ELECTRICAL CONTRACTOR SHALL PROCURE AND PAY FOR ALL LICENSES, ETC. REQUIRED TO CARRY ON AND COMPLETE THE WORK. PERMIT BY OWNER.

3. PROVIDE ALL LABOR, MATERIALS, TOOLS, PLANT EQUIPMENT, TRANSPORTATION AND PERFORM ALL OPERATIONS NECESSARY FOR ANY REASONABLE INCIDENTAL TO PROPER EXECUTION AND COMPLETION OF ALL "ELECTRICAL WORK" WHETHER SPECIFICALLY MENTIONED OR NOT; ALL AS INDICATED, SPECIFIED HEREIN, AND/OR IMPLIED THEREBY TO CARRY OUT THE APPARENT INTENT THEREOF.

4. ALL ELECTRICAL MATERIALS SHALL BE NEW AND LISTED WITH THE UNDERWRITERS' LABORATORIES, INC., SHALL MEET THEIR REQUIREMENTS AND SHALL BEAR THEIR LABEL WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY THAT AGENCY.

5. ELECTRICAL DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH THE SIZE AND LOCATIONS OF EQUIPMENT ARE SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION AT THE SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT AND INSTALLING HIS WORK TO AVOID INTERFERENCE WITH OTHER TRADES.

6. CONDUCTORS SHALL BE COPPER CONDUCTORS TYPE THWN UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.

7. ALL LUMINAIRES AND BALLASTS SHALL BE CERTIFIED BY THE MANUFACTURER TO THE CALIFORNIA ENERGY COMMISSION.

10. THE OWNER RESERVES THE RIGHT TO RELOCATE ALL LIGHTING, OUTLETS AND SWITCHES BEFORE THEY ARE ROUGHED IN AT NO EXTRA COST.

11. ALL EXIT SIGNS TO BE UNSWITCHED.

NAMEPLATES & IDENTIFICATION:

INSTALL ENGRAVED NAMEPLATES FOR EACH PANELBOARD, CABINET, DISCONNECT, ETC. NAMEPLATES SHALL BE SECURELY FASTENED TO THE EQUIPMENT WITH #4 PHILLIPS ROUND HEAD CADMIUM PLATED SELF-TAPPING SCREWS, BRASS BOLT, OR WITH A PLASTIC RESIN ADHESIVE GLUE, GOODYEAR "PLIEBOND" OR EQUAL.

WIRING METHODS:

1. ALL WIRING SHALL BE INSTALLED IN STEEL CONDUITS, CONCEALED IN WALL AND CEILING U.O.N.

2. MINIMUM CONDUIT SIZE SHALL BE 1/2". MINIMUM ACCEPTABLE CONDUITS ARE
   A. GALVANIZED RIGID STEEL.
   B. GALVANIZED STEEL EMT.
   C. LIQUID TIGHT STEEL FLEX - FOR FINAL CONNECTION TO OUTDOOR EQUIPMENT.
   D. FLEXIBLE STEEL CONDUIT - FOR INDOOR FINAL CONNECTIONS TO MECHANICAL EQUIPMENT (NOT TO EXCEED 36").
   E. PVC CONDUIT SCHEDULE 40, UNDERGROUND.
3. NMC CABLING SYSTEMS ARE NOT ALLOWED IN THIS BUILDING.
4. MC CABLING SYSTEMS ARE NOT ALLOWED IN THIS BUILDING.

WIRING DEVICES:

UNITS SHALL BE EQUAL TO THE DEVICES SET FORTH HEREIN, IN STANDARD COLORS (BROWN, WHITE, GREY, BEIGE OR IVORY) AS SELECTED BY THE ARCHITECT:

A. WIRING DEVICES	LEVITON #	HUBBELL #	P & S #
SINGLE POLE SWITCH	1221	1221	20AC1
THREE WAY SWITCH	1223	1223	20AC3
DUPLEX CONV. OUT. 15A	5262	5262	5262
DUPLEX GFI CONV. OUT.		GF5262	

DEVICE PLATES:

1. ALL DEVICE PLATES FOR INDOOR USE SHALL BE SMOOTH NYLON OR APPROVED EQUAL UNLESS OTHERWISE NOTED. ALL DEVICE PLATES FOR OUTDOOR USE SHALL BE RAISED METAL.

2. DEVICE COVERS FOR SURFACE MOUNTED BOXES SHALL BE 1/2" RAISED STEEL PLATES. WEATHERPROOF COVERS TO BE SNAP TYPE COVERS.

3. DEVICE PLATES FOR TELEPHONE AND COMPUTER OUTLETS TO BE PROVIDED BY OWNER'S VENDOR. ALL TELEPHONE AND COMPUTER SYSTEM WIRING BY OWNER'S VENDOR.

SUPPORTS:

1. FURNISH ALL NECESSARY FOUNDATIONS, SUPPORTS, BACKING, ETC., FOR ALL ELECTRICAL ENCLOSURES, CONDUITS AND EQUIPMENT.

2. ATTACH ALL BOXES, CABINETS, ETC. TO WOOD WITH WOOD OR LAG SCREWS, TO METAL WITH MACHINE SCREWS OR BOLTS AND TO CONCRETE WITH EXPANSION ANCHORS AND MACHINE SCREWS OR BOLTS.

GROUNDING:

1. GROUND AND BOND ALL EQUIPMENT AS REQUIRED BY GOVERNING CODES AND SPECIFICALLY INCLUDING SWITCHBOARD, PANELBOARDS, MOTOR CASES, ETC.

TESTING:

1. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE FREE FROM SHORT CIRCUITS AND IMPROPER GROUNDS. TEST ALL WIRING AND CONNECTIONS FOR CONTINUITY AND GROUNDS BEFORE ANY FIXTURES OR EQUIPMENT ARE CONNECTED AND WHETHER SUCH TESTS INDICATE FAULTY INSULATION OR OTHER DEFECTS, THEY SHALL BE LOCATED, REPAIRED AND RETESTED AT THE CONTRACTOR'S EXPENSE.

2. DEMONSTRATE TO THE OWNER AND THE ARCHITECT, THAT THE ENTIRE INSTALLATION IS COMPLETE, IN PROPER OPERATING CONDITION AND THAT THE CONTRACT HAS BEEN PROPERLY AND FULLY EXECUTED. PROVIDE ALL INSTRUMENTS TO MAKE SUCH TESTS.

ELECTRICAL LEGEND

ELECTRICAL POWER

ALL LINE VOLTAGE WIRING IN CONDUIT, SEE GENERAL NOTES
TICKS = # OF #12 WIRE, SHORT = HOT, LONG = NEUTRAL, DOT = GROUND, UNLESS NOTED OTHERWISE

120V OUTLET, +18" TO BOTTOM OF BOX
- S = SIGN
- F = FLOOR
- GFI = GROUND FAULT INTERUPTER

JUCTION BOX

MOTOR / DISCONNECT

PANELBOARD

TRANSFORMER / SWITCHBOARD AS NOTED

DRAFTING NOTATIONS

N## KEY NOTE, SEE SCHEDULE

N## EQUIPMENT TAG, SEE SCHEDULE

A / E-2 REFERENCE TO A DETAIL VIEW "A" ON SHEET E-2

NEW ELECTRICAL

EXISTING ELECTRICAL OR DEMOLISHED WHERE NOTED

(e) (E) EXISTING DEVICE, TO REMAIN IN OPERATION

(r) (R) REMOVE DEVICE, KEEP REMAINDER OF CIRCUIT IN OPERATION

(RR) REMOVE, RELOCATE AND RECONNECT DEVICE ON EXISTING CIRCUIT, EXTEND CIRCUIT

ONE LINE DIAGRAM

BUS / SWITCHBOARD

PANEL

GROUND

M METER

CURRENT TRANSFORMER

POTENTIAL TRANSFORMER

DRY TYPE TRANSFORMER

MOTOR

CR1 RELAY
CR# = CONTROL RELAY
TDR = TIME DELAY RELAY
M = MOTOR STARTER
CONTACTOR RELAY
ETM = ELAPSE TIME METER

CONTACT (OPEN)

CONTACT (CLOSED)

VFD VARIABLE FREQ. DRIVE

MOTOR OVERLOAD HEATER

R INDICATOR LIGHT
(R) RED, (W) WHITE

ANTENNA

50/3 CIRCUIT BREAKER 50 AMP RATED, 3 POLE
GFI = GROUND FAULT INTERRUPTER
AFCI = ARC FAULT CIRCUIT INTERRUPTER

DISCONNECT, RATED TO POWER SOURCE VOLTAGE AND AMPERAGE RATING FOR FUSE OR AS NOTED

60 FUSE, SIZE = 60 AMPS

AUTOMATIC TRANSFER SWITCH

G 50/3 ENGINE DRIVEN GENERATOR RATING AS NOTED AGAINST THE UNIT.

DRAW OUT DEVICE

52 ANSI RELAY

ELECTRICAL ABBREVIATIONS:

AL = ALUMINUM
A = AMPERAGE
AIC = AMPS INTERRUPTING CAPACITY
AFF = ABOVE FINISHED FLOOR
AFG = ABOVE FINISHED GRADE
CKT = CIRCUIT
CO = CONDUIT ONLY
CU = COPPER
EC = ELECTRICAL CONTRACTOR
GC = GENERAL CONTRACTOR
GFI = GROUND FAULT INTERRUPTER
GND = GROUND
KW = KILOWATT
KVA = KILO-VOLT-AMPERE
LC = LIGHTING CONTACTOR
NO = NUMBER
NL = NIGHT LIGHT
PB = PULLBOX
SP = SPACE
UG = UNDERGROUND
UON = UNLESS OTHERWISE NOTED
V = VOLT
WP = WEATHERPROOF

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REGISTERED PROFESSIONAL ENGINEER RICHARD C. SMITH No. E14303 Exp. 6-30-25 ELECTRICAL STATE OF CALIFORNIA

DATE: 3/8/2024 10:44:37 AM

ORIGINAL DRAWING SCALE
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DEPARTMENT OF MUNICIPAL UTILITIES
CITY OF STOCKTON, CALIFORNIA

APPROVED BY: _____ DATE: 3/19/24
ENGINEERING SERVICES MANAGER, DEPARTMENT OF MUNICIPAL UTILITIES

CITY OF STOCKTON
STOCKTON, CALIFORNIA

WELL 26
ELECTRICAL INFORMATION

SHEET NO. E1
OF SHEETS
PROJECT NO. UH24008

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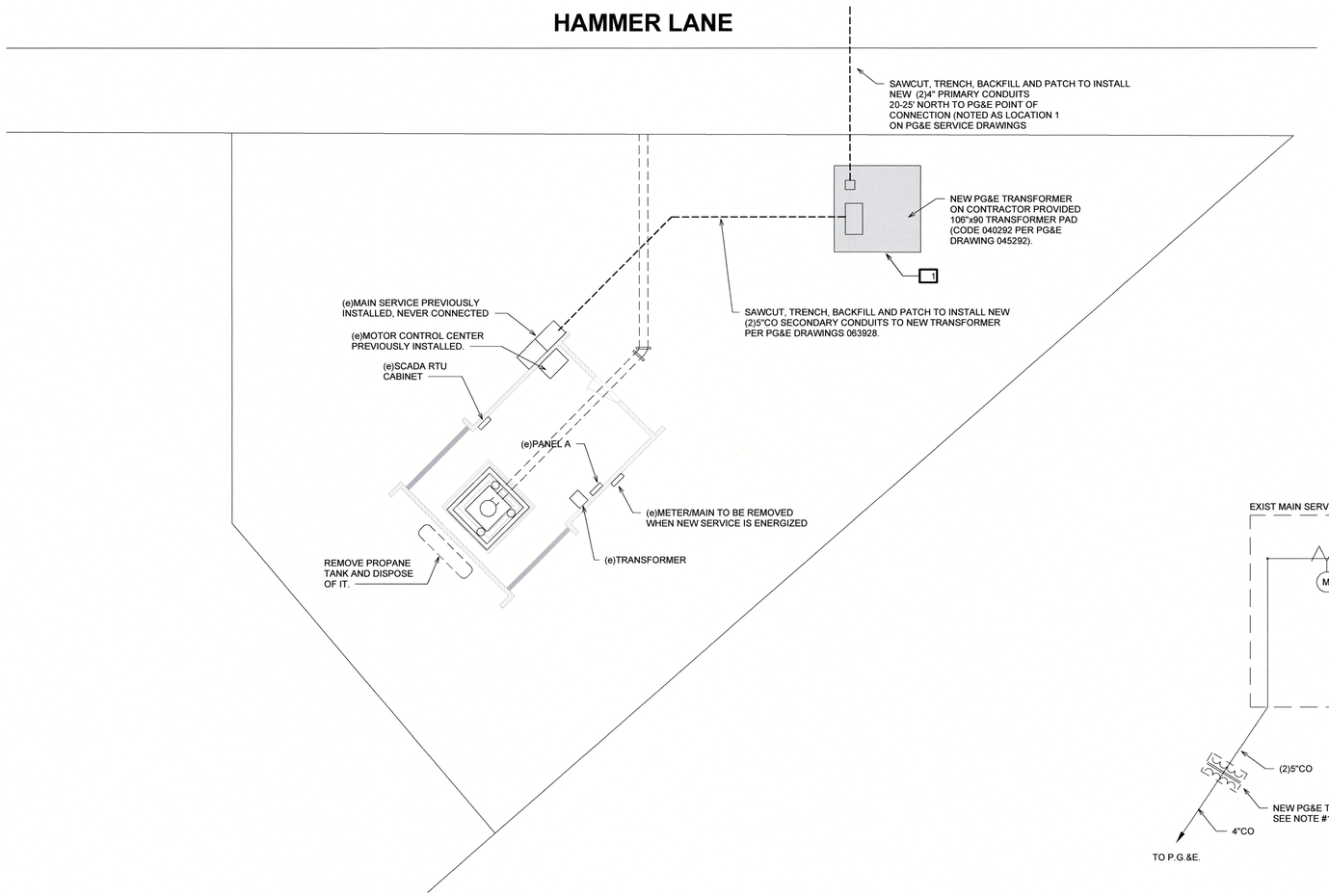
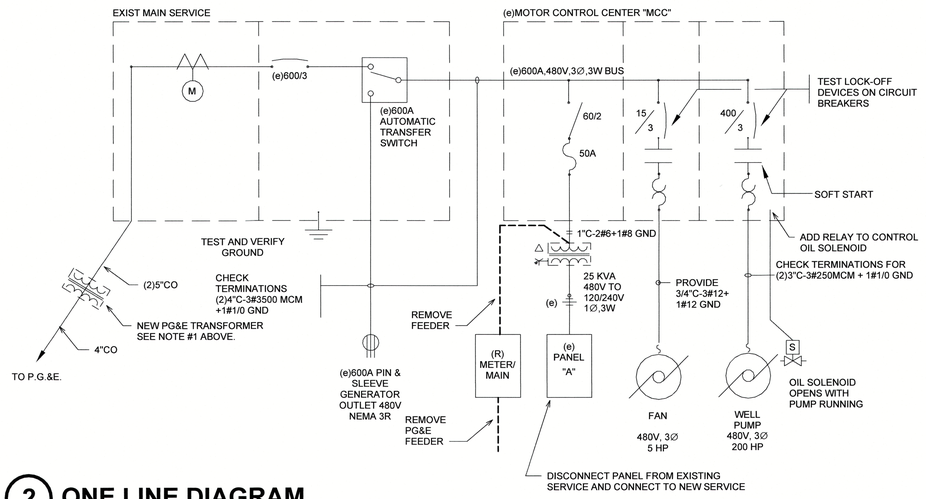
ELECTRICAL SITE PLAN NOTES	
Note Number	Note
1	PG&E TRANSFORMER. ELECTRICAL CONTRACTOR SHALL PROVIDE TRANSFORMER PAD, GROUNDING AND BARRIER POSTS PER PG&E REQUIREMENTS



1 ELECTRICAL SITE PLAN
SCALE: 1/8" = 1'-0"



2 ONE LINE DIAGRAM
SCALE: NTS

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CITY OF STOCKTON
STOCKTON, CALIFORNIA

WELL 26

ELECTRICAL SITE PLAN

SHEET NO. E2
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PROJECT NO. UH24008

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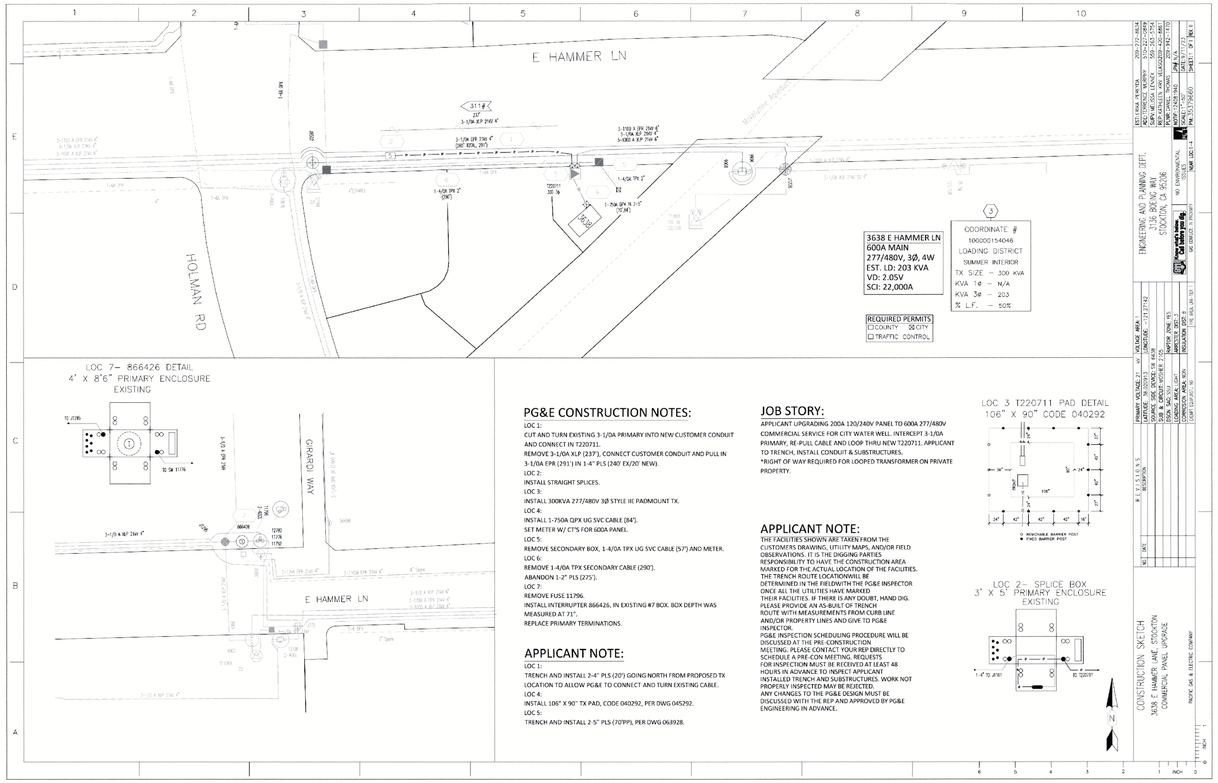

Applicant Instructions

35379660(E) - Totals as of: 09/11/23 08:45AM

Work Location	Work Type	Qty	Unit	Description
LOC_1 D				
LOC_1 D - I/R				
	INSTALL	40	FT	Dist Conduit, Plastic, 4", 1Way
	INSTALL	2	EA	Bend, Conduit, 4", 90Deg, 60"R
	INSTALL	2	EA	Bend, Conduit, 4", 90Deg, 36"R
	INSTALL	4	EA	Plastic Conduit Cap Plug, 4"
LOC_3 D				
LOC_3 D - I/R				
	INSTALL	1	EA	Pad, TX, IIE/IIG, 106"x90"

Applicant Materials

35379660(E) - Totals as of: 09/11/23 08:45AM

Quantity	Unit	M-Code	Description	Lead Time(wks)
40	FT	M016472	RIGID CONDUIT PLASTIC 4" PVC SCHEDULE 40	2
2	EA	M360414	BEND CONDUIT 4" PVC SCHD 40 36"R 90 D	1
4	EA	M360443	CAP PLSTC CONDUIT 4" PLUG	1
2	EA	M360415	BEND CONDUIT 4" PVC SCHD 40 60"R 90 D	1
1	EA	M040292	PAD CONC 90" X 106" 300 TO 2500KVA	1

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CITY OF STOCKTON, CALIFORNIA
APPROVED BY: Ali Sharego Flgo DATE: 3/19/24
ENGINEERING SERVICES MANAGER, DEPARTMENT OF MUNICIPAL UTILITIES

CITY OF STOCKTON
STOCKTON, CALIFORNIA
WELL 26
PG&E SERVICE DRAWING

SHEET NO. E2.1
OF SHEETS
PROJECT NO. UH24008

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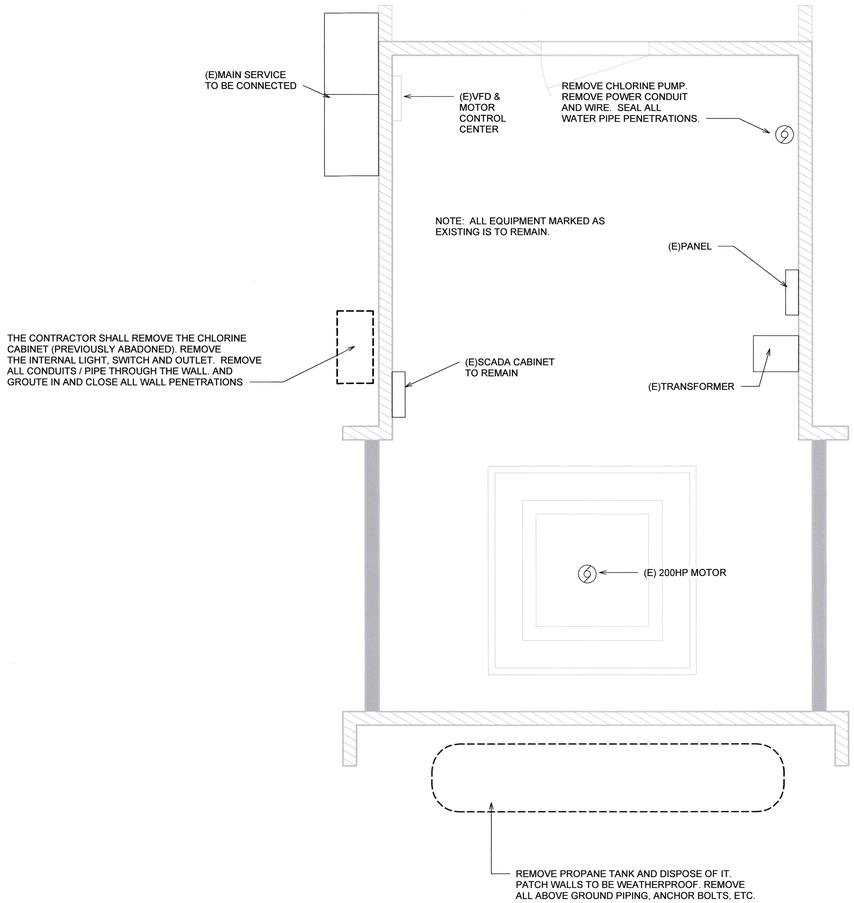
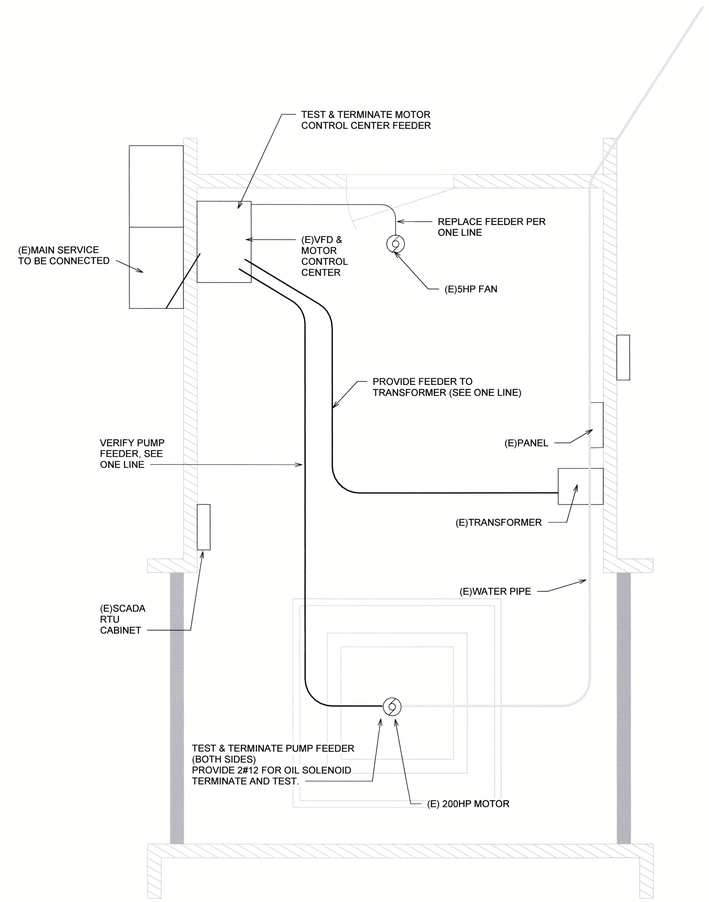


1 DEMOLITION PLAN
SCALE: 3/8" = 1'-0"



2 ELECTRICAL PLAN
SCALE: 3/8" = 1'-0"

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ELECTRICAL
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CITY OF STOCKTON, CALIFORNIA

APPROVED BY: Ali Gharegoz Kia DATE: 3/19/24
ENGINEERING SERVICES MANAGER, DEPARTMENT OF MUNICIPAL UTILITIES

CITY OF STOCKTON
STOCKTON, CALIFORNIA

WELL 26
ELECTRICAL PLAN

SHEET NO. E3
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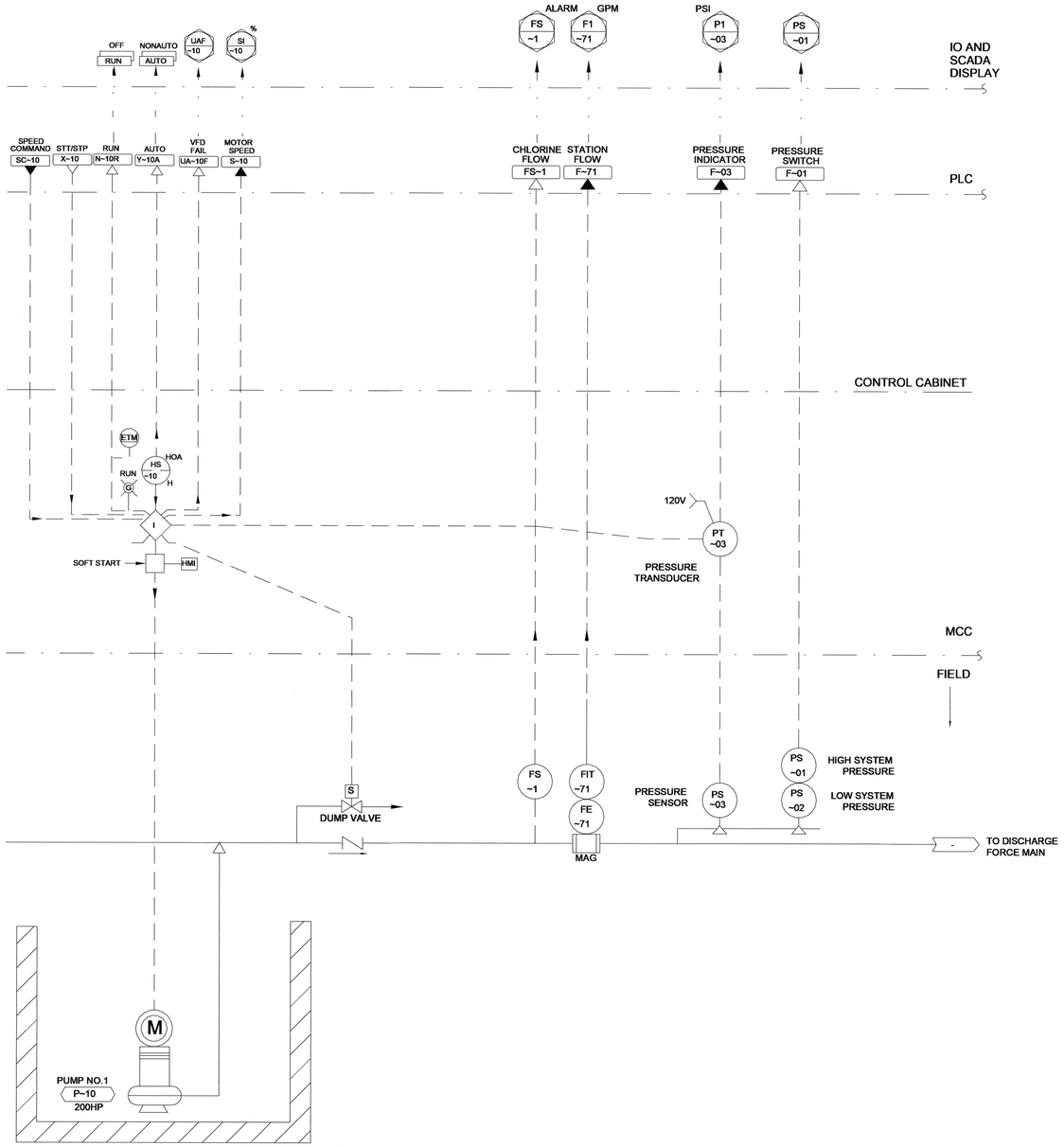
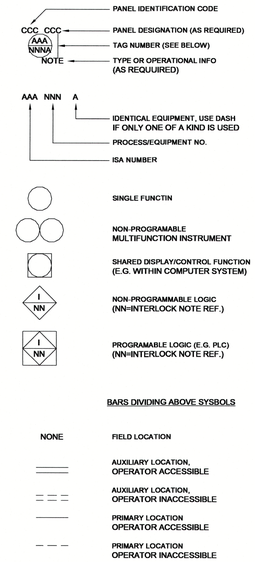


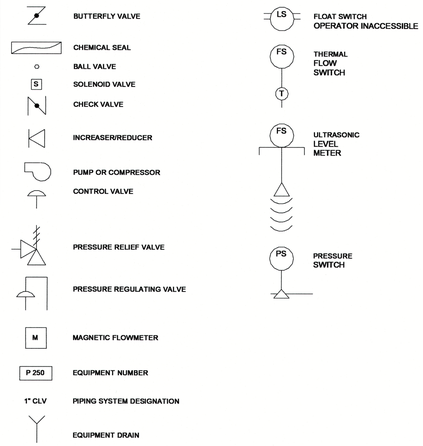
INSTRUMENT OR FUNCTION SYMBOLS



INSTRUMENT IDENTIFICATION LETTERS

	FIRST LETTERS		SUCCEDING-LETTERS		
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM		
B	BURNER COMBUSTION		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
C	CONDUCTIVITY			CONTROL	
D	DENSITY, MASS OF SPECIFIC GRAVITY	DIFFERENTIAL			
E	VOLTAGE		SENSOR (PRIM. ELEMENT)		
F	FLOW RATE	RADIO (FRACTION)			
G	GUAGE		GLASS, VIEWING DEVICE		
H	HAND				HIGH
I	CURRENT (ELEC.)		INDICATE		
J	POWER	SACN		CONTROL STATION	
K	TIME TIME SCHEDULE	TIME RATE OF CHANGE			
L	LEVEL		LIGHT		LOW
M	USER'S CHOICE	MOMENTARY			MIDDLE
N	USER'S CHOICE		USER'S CHOICE	USER'S CHOICE	
O	USER'S CHOICE		OFFICE RESTRICTION		
P	PRESSURE VACCUM		POINT (TEST) CONNECTION		
Q	QUANITY	INTERGRATE, TOTALIZE			
R	RADIATION		RECORD		
S	SPEED FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V	VIBRATION, MECH, ANALYSIS			VALVE, DAMPER LOUVER	
W	WEIGHT, FORCE		WELL		
X	RUN	X AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y	EVENT, STATE OR PRESENCE	Y AXIS		RELAY, COMPUTE CONVERT	
Z	POSITION, DIMENSION	Z AXIS		DRIVER, ACTUATOR, UNCLASS, FINAL CONTROL ELEMENT	

PRIMARY ELEMENT SYMBOLS



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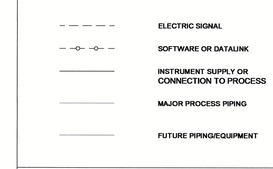

PANEL IDENTIFICATION CODES

MCC	MOTOR CONTROL CENTER

PANEL IDENTIFICATION CODES

HOA	HAND-OFF-AUTO
OOS	OUT-OF-SERVICE
SPR	SETPOINT RELAY
SS	START-STOP

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DATE: 3/8/2024 10:45:01 AM

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DEPARTMENT OF MUNICIPAL UTILITIES
CITY OF STOCKTON, CALIFORNIA

APPROVED BY: ali Kharegat ENGINEERING SERVICES MANAGER, DEPARTMENT OF MUNICIPAL UTILITIES DATE: 3/19/24

CITY OF STOCKTON
STOCKTON, CALIFORNIA

WELL 26
CONTROL SYSTEM

SHEET NO. E4
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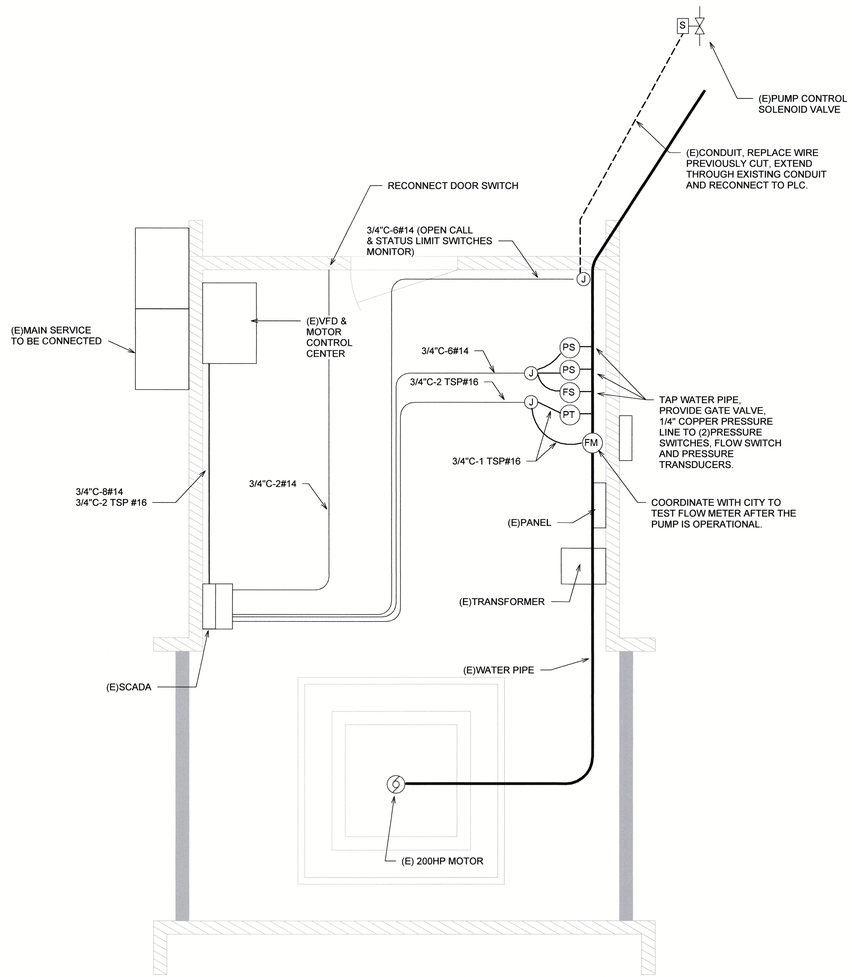
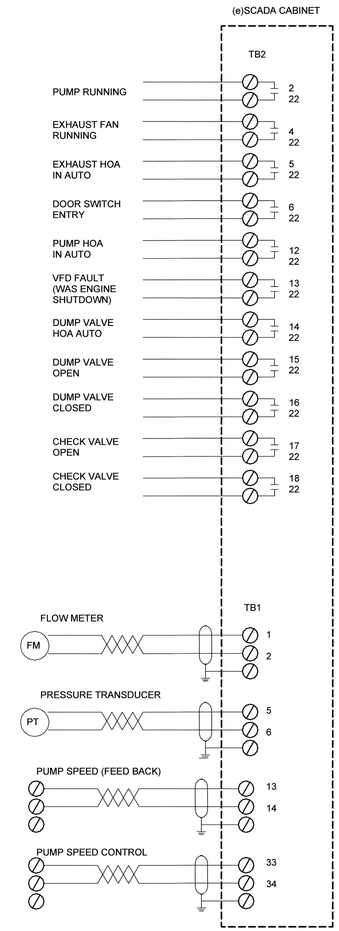


2 INSTRUMENTATION PLAN
SCALE: 3/8" = 1'-0"



1 RTU CONNECTIONS
SCALE: NTS

DIGALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

SUBMITTAL		REVISIONS				
%	DATE	NO	DESCRIPTION	DATE	BY	APP BY

SCALE: as shown
DESIGNED BY: R. SMITH
DRAWN BY: R. SMITH
CHECKED BY: R. SMITH
RECORD DWG:

THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL AND SIGNATURE OF A DULY REGISTERED PROFESSIONAL

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REGISTERED PROFESSIONAL ENGINEER RICHARD C. SMITH No. E14303 Exp. 6-30-25 ELECTRICAL STATE OF CALIFORNIA

DATE: 3/8/2024 10:45:07 AM

ORIGINAL DRAWING SCALE
0 ½" 1"

DEPARTMENT OF MUNICIPAL UTILITIES
CITY OF STOCKTON, CALIFORNIA

APPROVED BY: Ali Kharraz Jr. DATE: 3/19/24
ENGINEERING SERVICES MANAGER, DEPARTMENT OF MUNICIPAL UTILITIES

CITY OF STOCKTON
STOCKTON, CALIFORNIA

WELL 26
SCADA CONNECTIONS

SHEET NO. E5
OF SHEETS
PROJECT NO. UH24008

path://john/17/4

C:\Users\RichardSmith\Box\HCS\2022\City of Stockton Well _26\well 26 electrical.rvt