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Revised General Arrangement Refinement 2 – Preliminary Figures

Submitted to
California Energy Commission

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Elmore North Geothermal LLC

With assistance from
Jacobs

Elmore North Geothermal Project
(23-AFC-02)
December 4, 2024

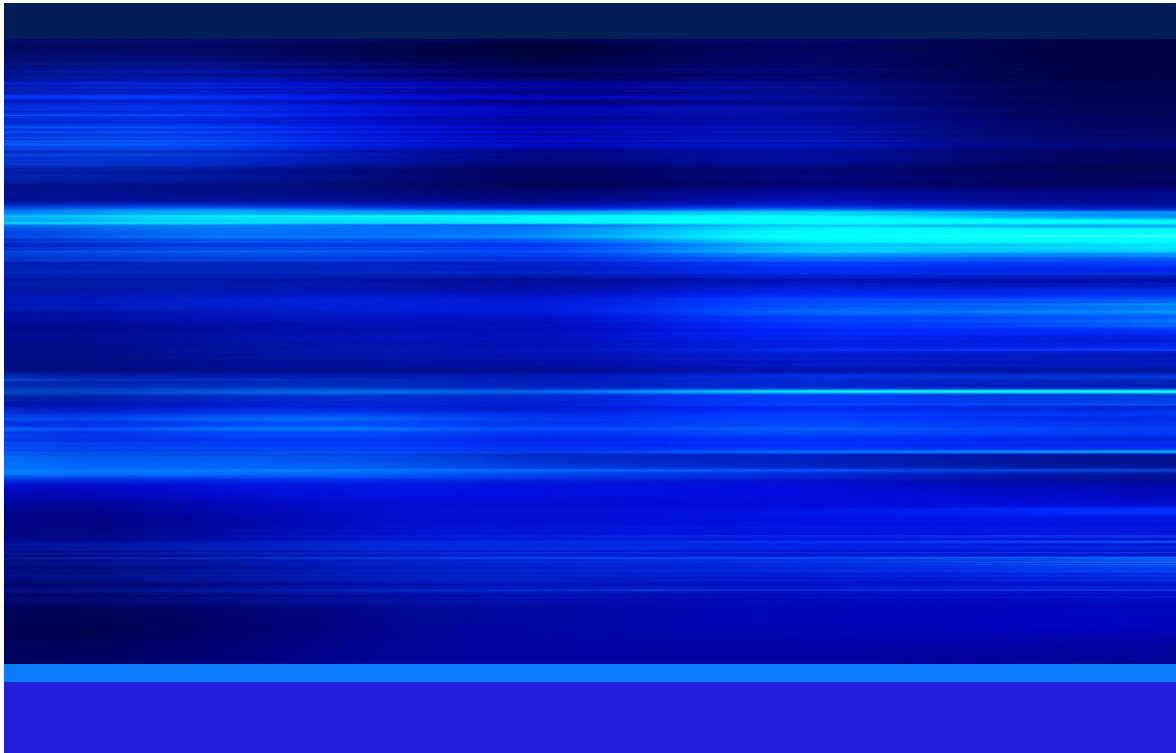




Figure 1-3R2
Architectural Rendering,
Elmore North Geothermal Project
Imperial County, California

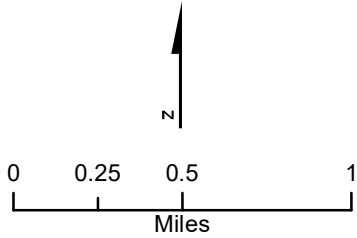
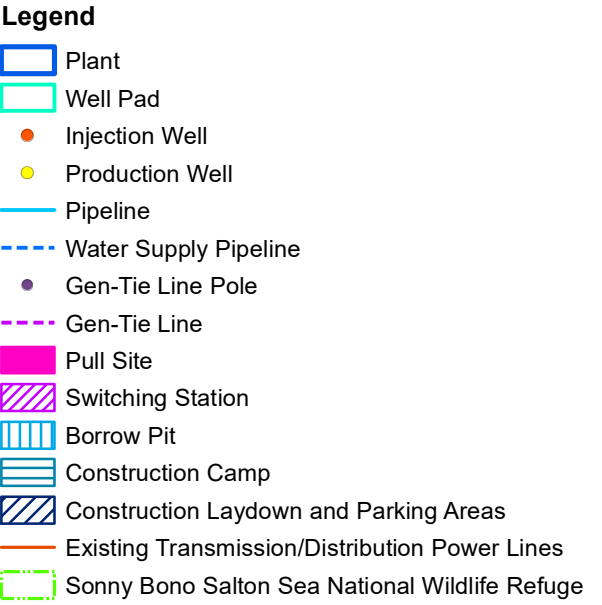
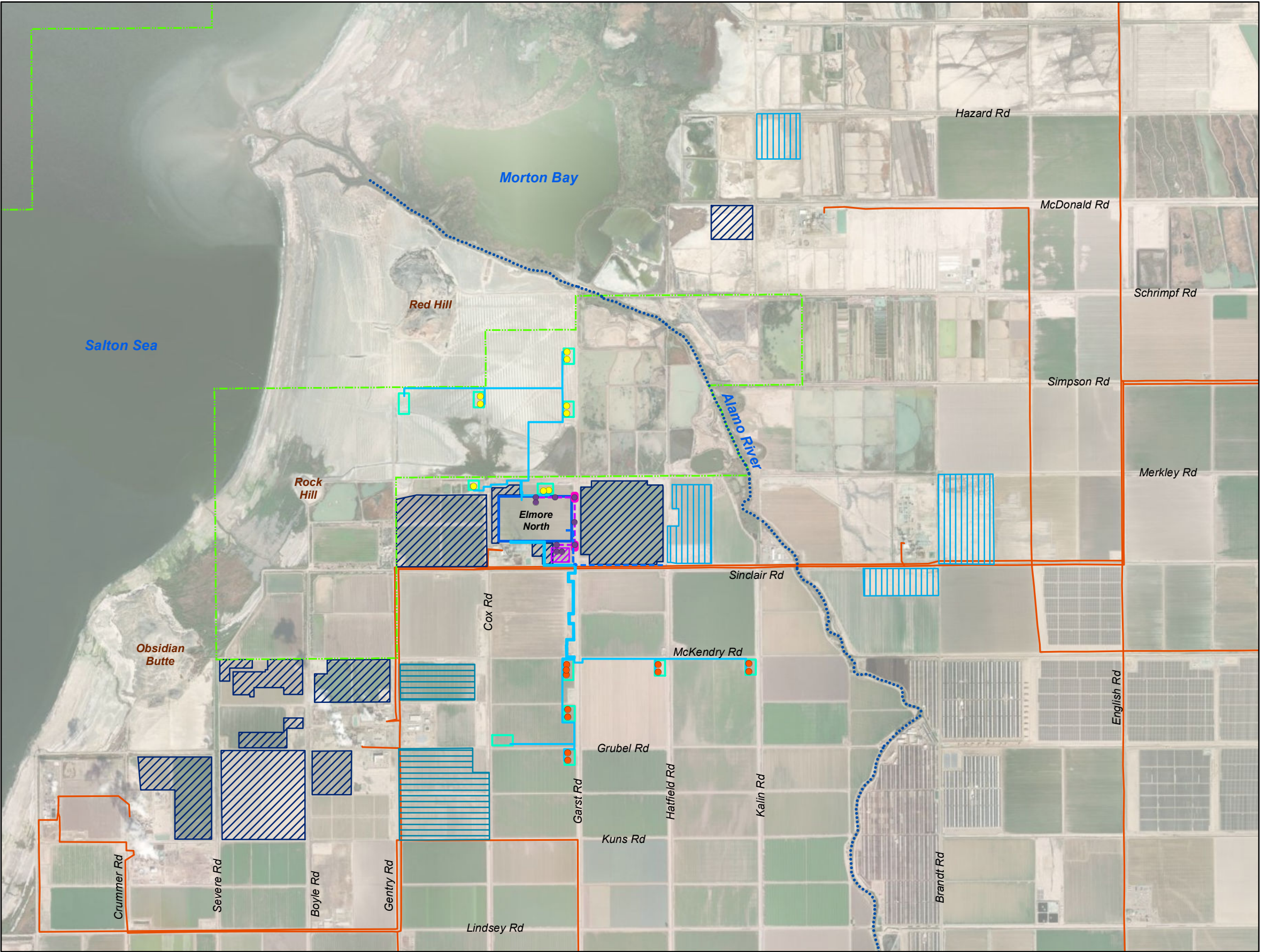
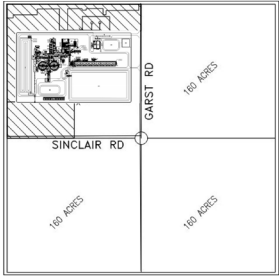
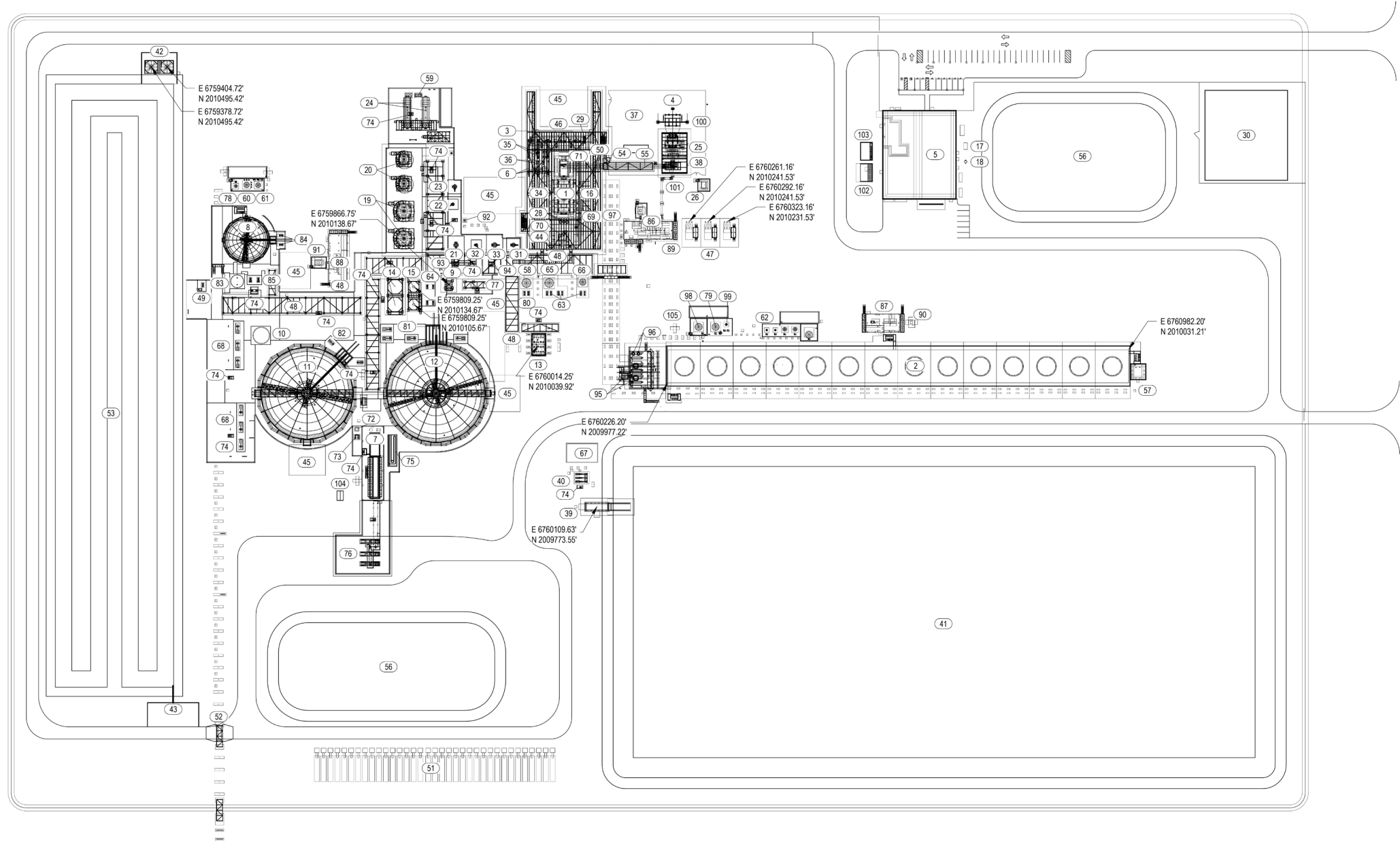


Figure 1-4R2
Project Location
Elmore North Geothermal Project
Imperial County, California



LEGEND:

1. STEAM TURBINE
2. COOLING TOWER
3. VACUUM PUMP SKIDS A/B/C
4. SUBSTATION
5. CONTROL / MAINTENANCE BUILDING
6. EJECTORS A/B/C
7. HORIZONTAL BELT FILTER
8. THICKENER
9. SCRUBBER/DEMISTER DRAIN AFT
10. HEAD TANK
11. SECONDARY CLARIFIER
12. PRIMARY CLARIFIER
13. ROCK MUFFLER
14. PROCESS AFT A/B
15. DILUTION WATER HEATER A/B
16. CONDENSER
17. CONTROL / MAINTENANCE BUILDING SEPTIC TANK
18. CONTROL / MAINTENANCE BUILDING SANITARY LIFT STATION
19. LP CRYSTALLIZER A/B
20. SP CRYSTALLIZER A/B
21. LP SCRUBBER
22. SP SCRUBBER
23. HP SCRUBBER
24. HP SEPARATOR A/B
25. GENERATOR STEP-UP TRANSFORMER
26. ALTERNATE FEED TRANSFORMER
27. NOT USED
28. HOTWELL PUMPS
29. SEAL WATER COOLER
30. EVAPOTRANSPIRATION (E-T) BED
31. HP DEMISTER
32. SP DEMISTER
33. LP DEMISTER
34. INSTRUMENT AIR COMPRESSOR A/B
35. INSTRUMENT AIR / SERVICE AIR RECEIVERS
36. AIR COMPRESSOR CHILLER UNIT A/B
37. SUBSTATION CONTROL ENCLOSURE
38. UNIT AUXILIARY TRANSFORMER
39. FIRE WATER PUMP ENCLOSURE
40. SERVICE WATER PUMPS
41. FRESH WATER POND
42. WARM-UP AFT
43. HYDRO BLAST PAD
44. LUBE OIL COOLER
45. CRANE ACCESS
46. GANTRY CRANE
47. DIESEL GENERATOR
48. PIPE RACK
49. EMERGENCY BRINE POND PUMPS
50. VT-SURGE CUBICLE
51. TRAILER PARKING
52. CULVERT
53. BRINE POND
54. GENERATOR CIRCUIT BREAKER
55. ISOLATED PHASE BUS DUCT
56. STORM WATER RETENTION BASIN
57. OX BOX
58. BLOWDOWN STORAGE TANK
59. ANTI-FOAM STORAGE AND DOSING SYSTEM
60. NORMS STORAGE AND DOSING SYSTEM
61. FLOCCULANT STORAGE AND DOSING SYSTEM
62. COOLING TOWER CHEMICAL FEED SYSTEM
63. CONDENSATE HP/SP/LP PUMPS
64. DILUTION WATER HEATER PUMPS
65. SP/LP CONDENSATE STORAGE TANK
66. HP CONDENSATE STORAGE TANK
67. POTABLE WATER SYSTEM
68. BRINE INJECTION / BOOSTER PUMPS A/B/C
69. OIL PURIFIER
70. STG LUBE OIL MODULE
71. NEUTRAL GROUND ENCLOSURE
72. LOCAL SERVICE WATER HOLDING TANK
73. SERVICE WATER BOOSTER PUMPS A/B
74. AREA SUMP / PUMP
75. HORIZONTAL BELT FILTER COOLER
76. CONVEYOR SYSTEM
77. AFT SEPARATOR TANK
78. BRINE INJECTION ANTISCALANT DOSING
79. CONCENTRATED HCL STORAGE
80. CONDENSATE INJECTION WELL PUMPS
81. PRIMARY CLARIFIER SEED RECYCLE MAIN / BOOSTER PUMPS
82. SECONDARY CLARIFIER SEED RECYCLE PUMPS
83. AERATED BRINE STORAGE TANK
84. THICKENER UNDERFLOW PUMPS
85. AERATED BRINE BOOSTER / INJECTION PUMPS
86. MEDIUM VOLTAGE ELECTRICAL ENCLOSURE
87. COOLING TOWER ELECTRICAL ENCLOSURE
88. BRINE INJECTION ELECTRICAL ENCLOSURE
89. MEDIUM VOLTAGE ELECTRICAL ENCLOSURE SUS TRANSFORMERS
90. COOLING TOWER ELECTRICAL ENCLOSURE SUS TRANSFORMERS
91. BRINE INJECTION ELECTRICAL ENCLOSURE SUS TRANSFORMERS
92. VESSEL DRAIN AFT
93. LP SCRUBBER DRAIN PUMP
94. LP DEMISTER DRAIN PUMP
95. CIRCULATING WATER PUMPS A/B
96. COMPONENT COOLING WATER PUMPS A/B
97. CIRCULATING WATER PIPING
98. 2.5% HCL DOSING
99. LIQUID LIME STORAGE AND DOSING
100. 230KV BREAKER
101. NON-SEGREGATED PHASE BUS DUCT
102. NEW OIL STORAGE AREA
103. USED OIL STORAGE AREA
104. COOLING HUT
105. ACID FUME SCRUBBER

Figure 2-1R2
General Arrangement,
Elmore North Geothermal Project
Imperial County, California



Figure 5.13-2bR2
Visual Simulation from Rock Hill (KOP1),
Elmore North Geothermal Project
Imperial County, California



Figure 5.13-2dR2
Visual Simulation from Red Hill (KOP2),
Elmore North Geothermal Project
Imperial County, California



Figure 5.13-2fR2
Visual Simulation from Sonny Bono Salton Sea
National Wildlife Refuge (KOP3),
Elmore North Geothermal Project
Imperial County, California