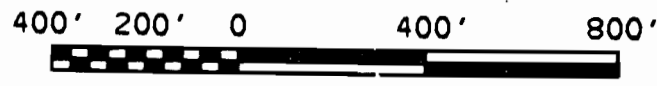
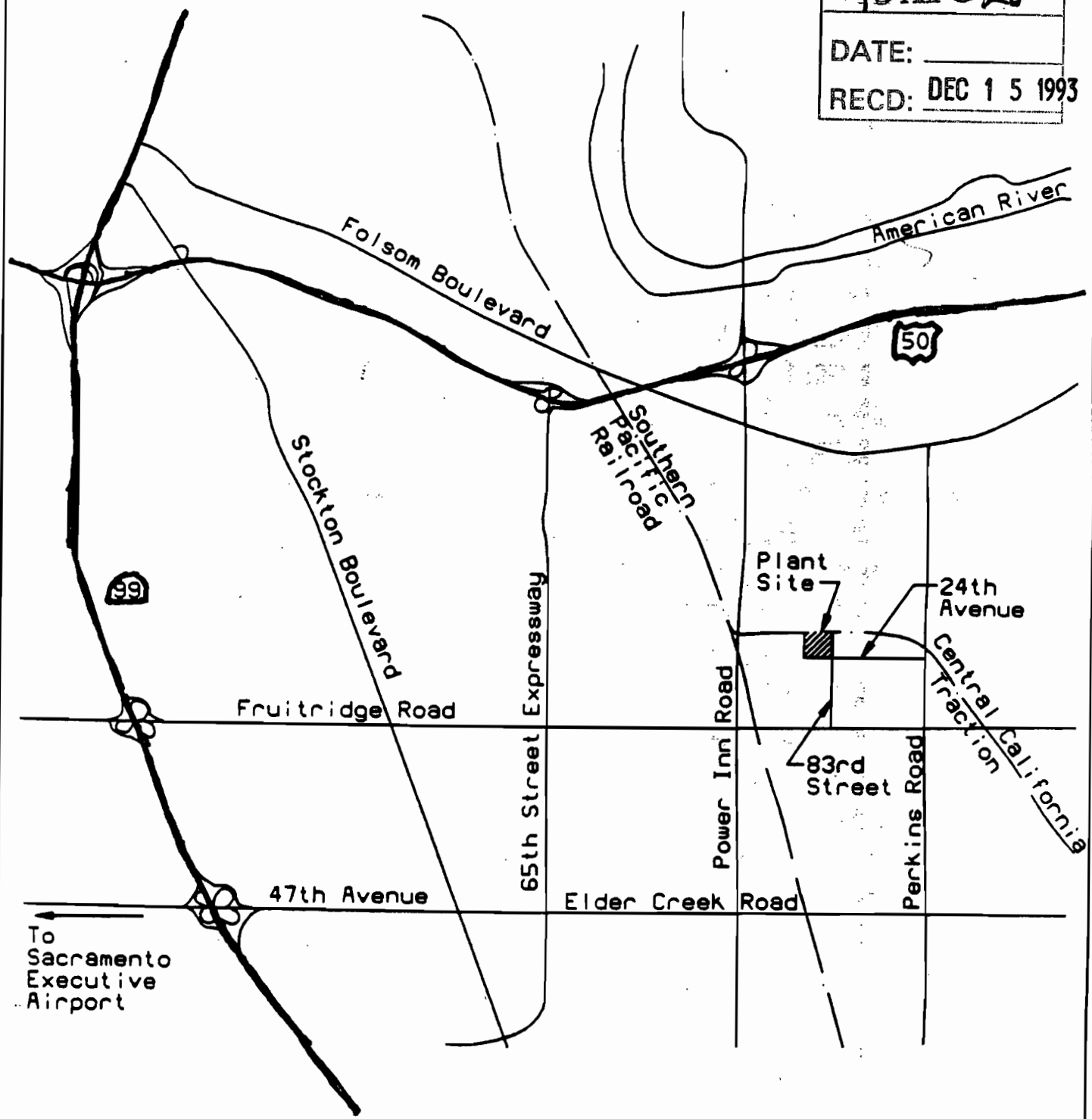


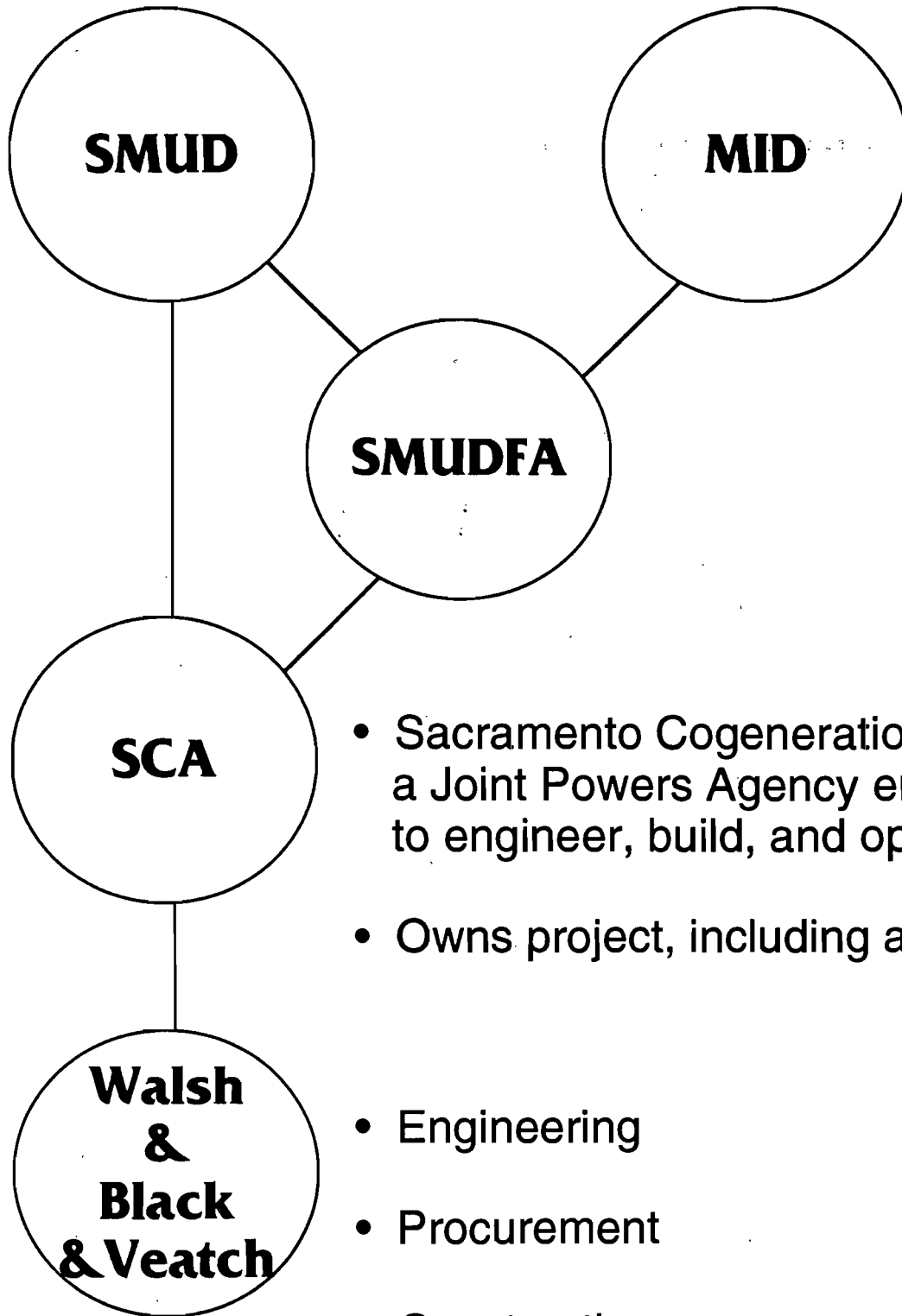
DOCKET
93-AFC-2

DATE: _____
 RECD: DEC 15 1993

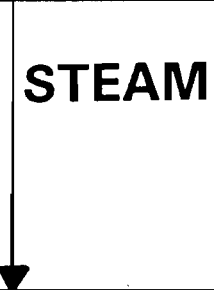
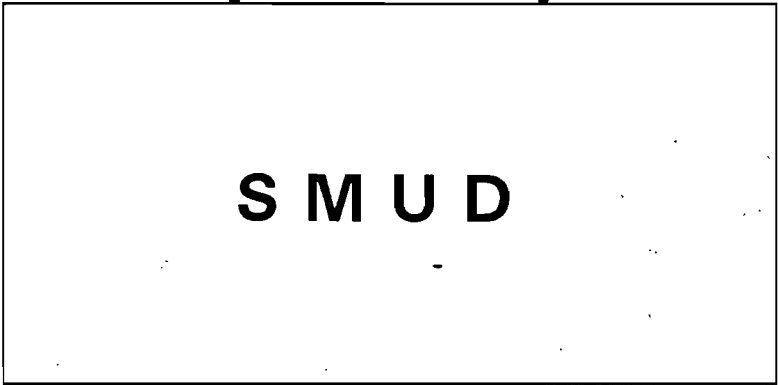
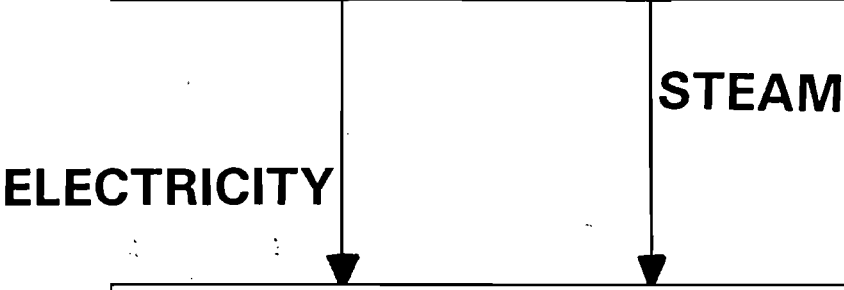
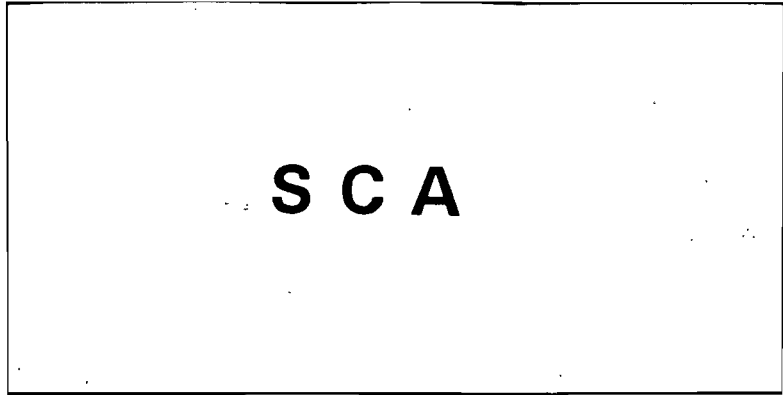


Sacramento Cogeneration Authority
 Procter and Gamble Cogeneration Facility

Regional Location Map



- Sacramento Cogeneration Authority, a Joint Powers Agency entity funded to engineer, build, and operate the project
- Owns project, including all permits
- Engineering
- Procurement
- Construction
- Start - Up



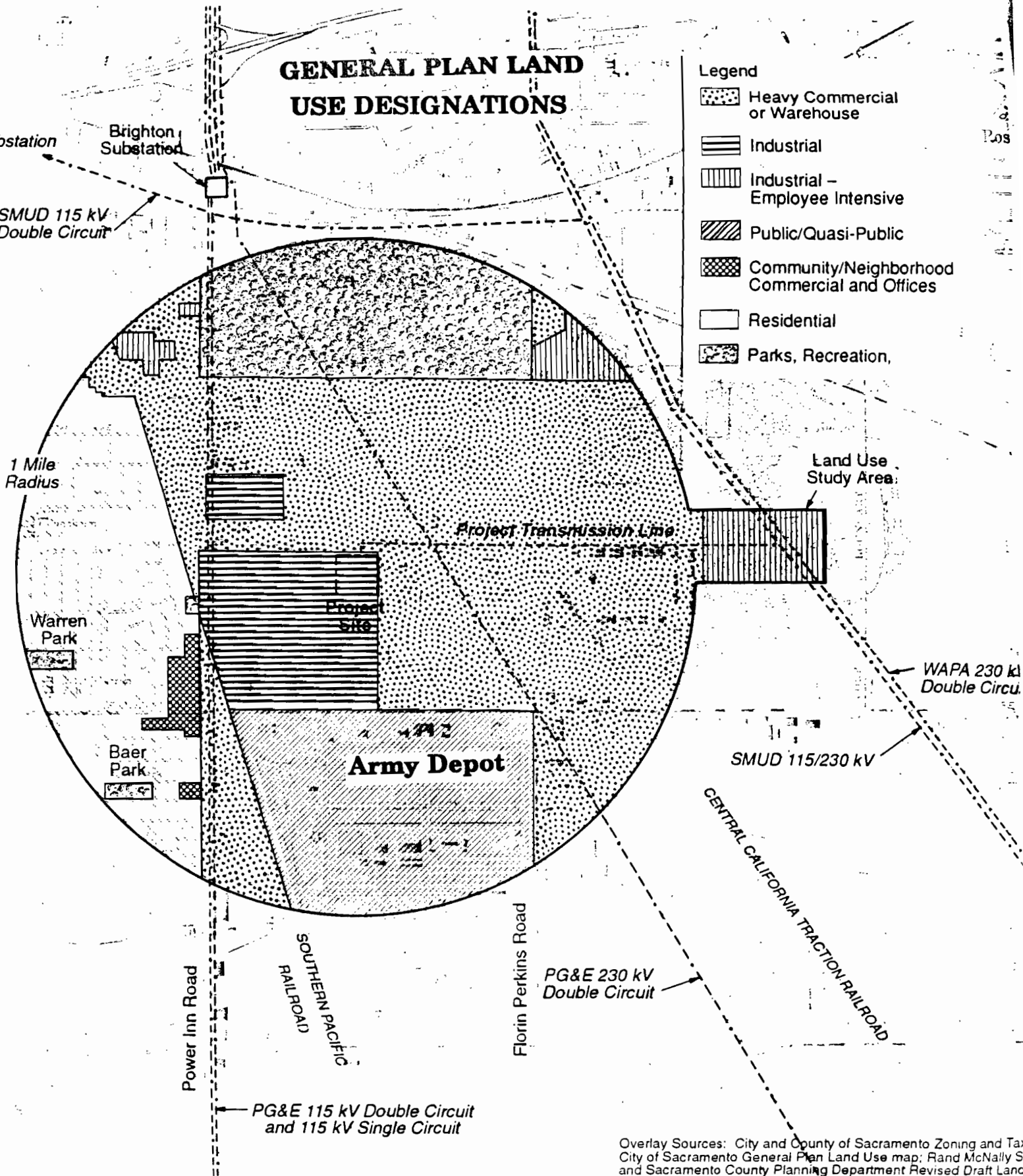
MAJOR COMPONENTS OF THE SCA's PROCTER & GAMBLE COGENERATION PROJECT

- 3 GENERAL ELECTRIC LM6000 COMBUSTION TURBINE GENERATORS
- 45 MW CONDENSING STEAM TURBINE GENERATOR STEAM CONDENSER
- 2 HEAT RECOVERY STEAM GENERATORS
- 3 SELECTIVE CATALYTIC REDUCTION SYSTEMS FOR NOX REDUCTION TO 5PPM
- 3 CO CATALYST SYSTEMS FOR 90% CO REMOVAL
- BUILDINGS
 - PLANT CONTROL AND ADMINISTRATION
 - WATER TREATMENT/WAREHOUSE & MAINTENANCE SHOP
 - CHILLER BUILDING
 - CIRC WATER CHEMICAL FEED BLDG
- 4 FUEL GAS COMPRESSORS
- AUXILIARY BOILER
- STANDBY DIESEL GENERATOR
- COOLING TOWER
- ELECTRICAL INTERCONNECTION TO SMUD
- NATURAL GAS SUPPLY

GENERAL PLAN LAND USE DESIGNATIONS

Legend

-  Heavy Commercial or Warehouse
-  Industrial
-  Industrial - Employee Intensive
-  Public/Quasi-Public
-  Community/Neighborhood Commercial and Offices
-  Residential
-  Parks, Recreation,



Overlay Sources: City and County of Sacramento Zoning and Tax City of Sacramento General Plan Land Use map; Rand McNally S and Sacramento County Planning Department Revised Draft Land

PROJECT TRANSMISSION LINE

To East City Substation

Brighton Substation

SMUD 115 kV Double Circuit

1 Mile Radius

Land Use Study Area

Project Transmission Line

Project Site

SMUD 115/230 kV

Power Inn Road

SOUTHERN PACIFIC RAILROAD

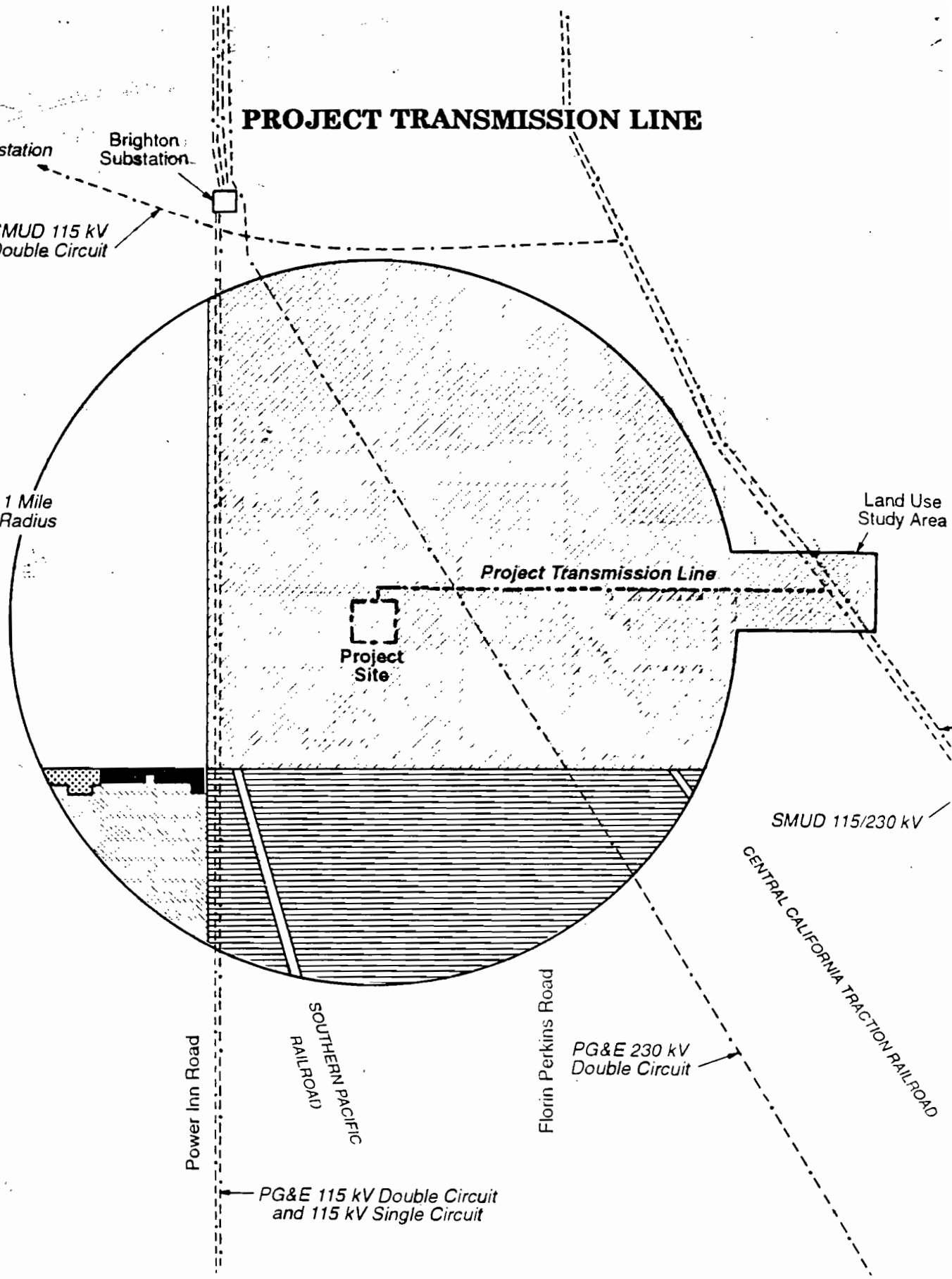
Florin Perkins Road

PG&E 230 kV Double Circuit

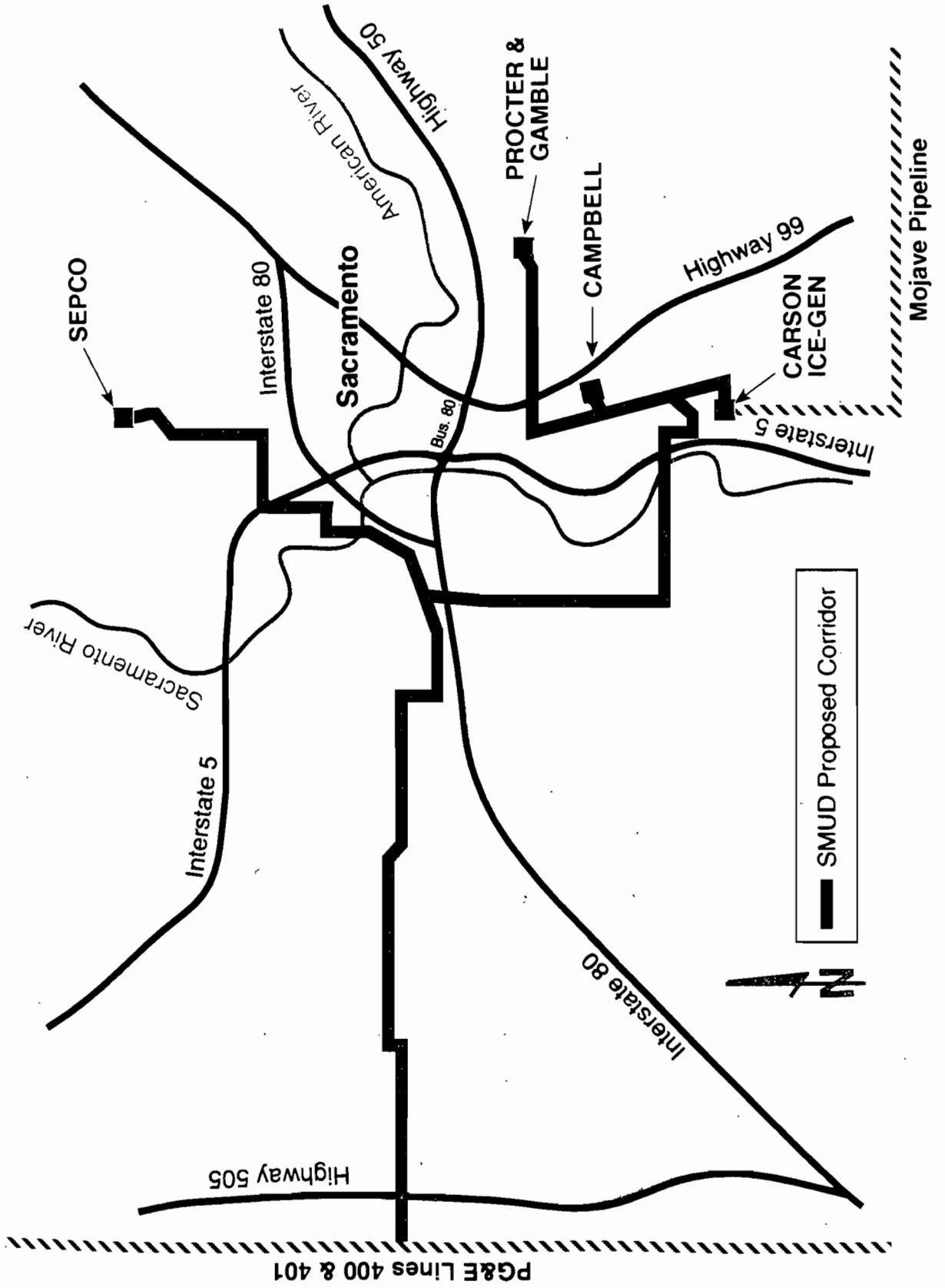
CENTRAL CALIFORNIA TRACTION RAILROAD

PG&E 115 kV Double Circuit and 115 kV Single Circuit

oad

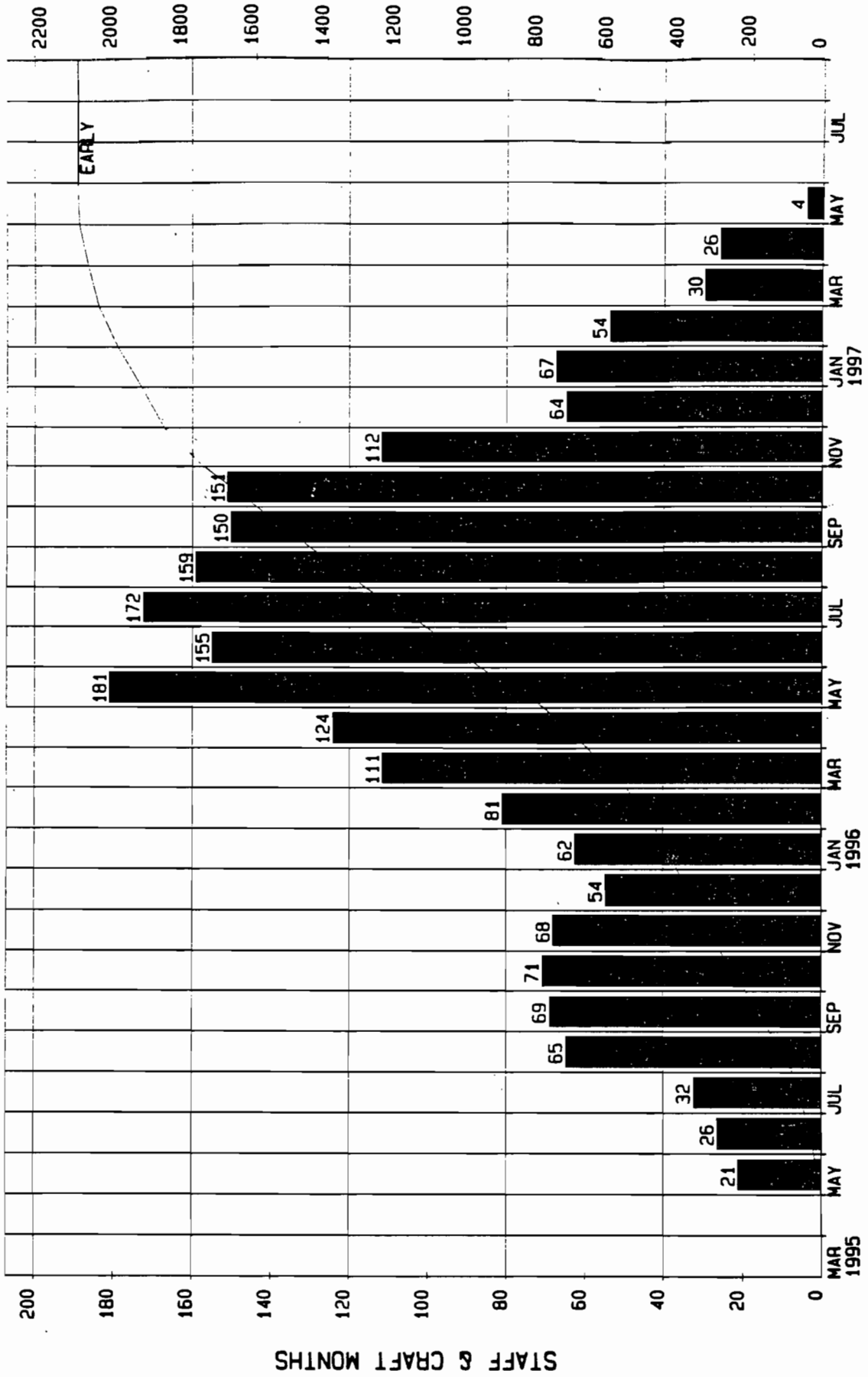


SMUD COGENERATION PIPELINE PROJECT

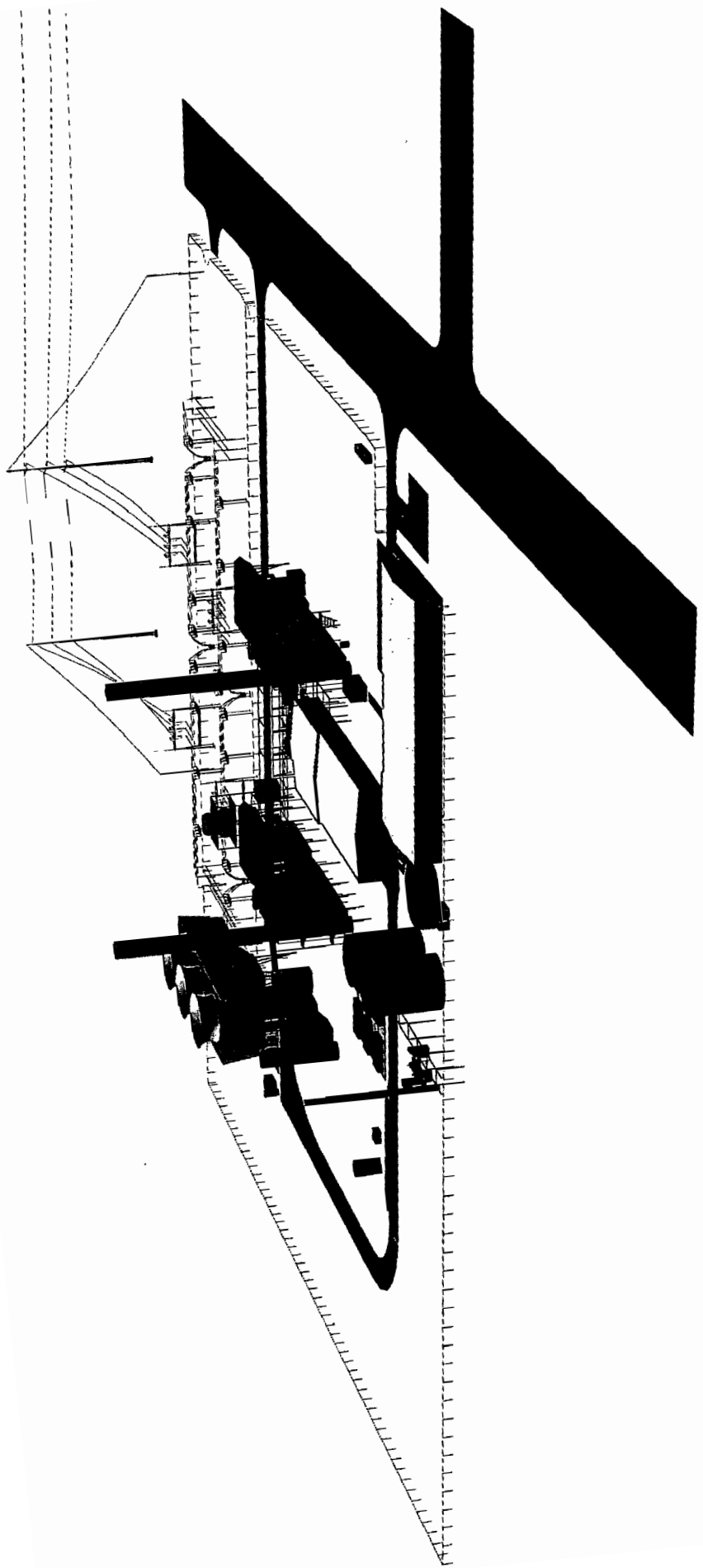


SCA PROJECT SCHEDULE

<u>EVENT</u>	<u>DATE</u>
BEGIN APPLICATION PREPARATION	APRIL 1993
FILE APPLICATION FOR CERTIFICATION WITH CALIFORNIA ENERGY COMMISSION	SEPTEMBER 1993
PROJECT DECLARED DATA ADEQUATE	NOVEMBER 1993
COMPLETION OF THE LICENSING PROCESS	OCTOBER 1994
COMPLETION OF PROJECT FINANCE AND START OF DETAILED ENGINEERING	APRIL 1995
ELECTRICAL INTER-CONNECTIONS	APRIL 1996
GAS INTERCONNECTION	AUGUST 1996
START OF ACCEPTANCE TESTING	JANUARY 1997
COMMERCIAL OPERATION	FEBRUARY 1997



Total Manpower by Month
Figure 3.18-1



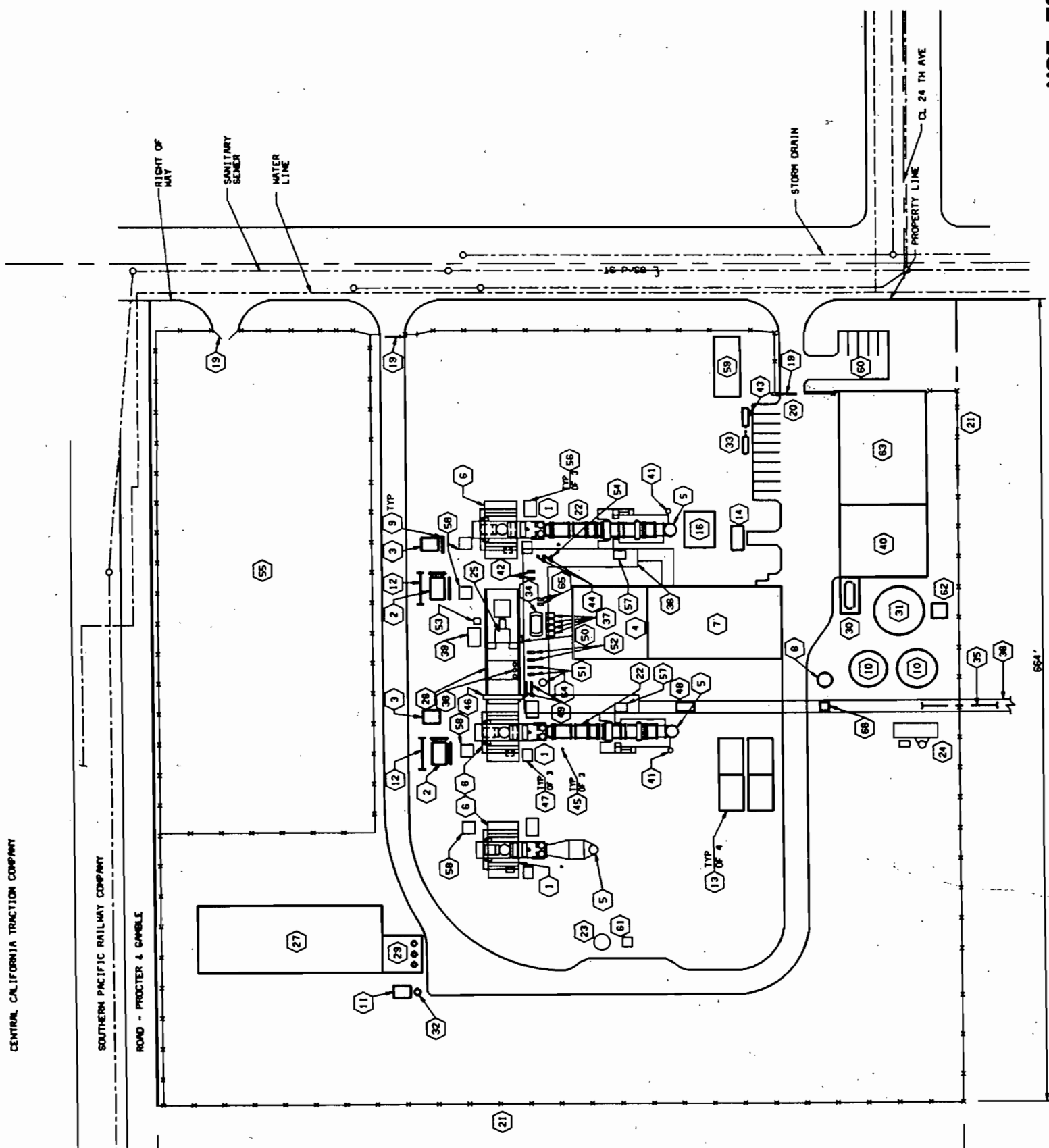
SACRAMENTO MUNICIPAL UTILITY DISTRICT
WALSH CONSTRUCTION COMPANY
BLACK & VEATCH

SACRAMENTO COGENERATION AUTHORITY
PROCTER & GAMBLE COGENERATION PROJECT
SACRAMENTO, CALIFORNIA

10
9
8
7
6
5
4
3
2
1

LEGEND

- 1. COMBUSTION TURBINE (3)
- 2. GENERATOR TRANSFORMER (2)
- 3. AUXILIARY TRANSFORMER (2)
- 4. CHILLER BUILDING
- 5. STACK (3)
- 6. INLET FILTER (3)
- 7. CONTROL/ADMIN BUILDING
- 8. CONDENSATE STORAGE TANK
- 9. TRANSFORMER FIRMWALL (5)
- 10. DEMINERALIZED WATER STORAGE TANK (2)
- 11. CIRC WATER CHEMICAL FEED
- 12. COMBINATION TAKEOFF TOWER AND DISCONNECT SWITCH (2)
- 13. GAS COMPRESSORS (4)
- 14. STANDBY GENERATOR
- 15.
- 16. CYCLE CHEMICAL FEED
- 17.
- 18.
- 19. GATE (3)
- 20. PAVED SITE ACCESS ROAD
- 21. SITE FENCE
- 22. HEAT RECOVERY STEAM GENERATOR (2)
- 23. AMMONIA STORAGE TANK
- 24. AUXILIARY BOILER
- 25. STEAM TURBINE
- 26. CONDENSER
- 27. COOLING TOWER
- 28.
- 29. CIRCULATING WATER PUMP STRUCTURE
- 30. ACID STORAGE TANK
- 31. NEUTRALIZATION TANK
- 32. SODIUM HYPOCHLORITE TANK
- 33. OIL/WATER SEPARATOR
- 34. DEAERATOR
- 35. STEAM LINE TO PROCTER & GAMBLE
- 36. PIPE RACK
- 37. BOILER FEED PUMPS (4)
- 38. CONDENSATE PUMPS (3)
- 39. TURBINE LUBE OIL UNIT
- 40. WATER TREATMENT BUILDING
- 41. BOILER BLOWDOWN TANK (2)
- 42. AIR COMPRESSORS (2)
- 43. SANITARY DISCHARGE FLOWMETER AND SAMPLE STATION
- 44. DESICCANT AIR DRYERS (2)
- 45. INLET GAS SCRUBBERS (3)
- 46. ST MAINTENANCE CRANE
- 47. HDX WATER INJECTION SKID (3)
- 48. CT WASH SKID (2)
- 49. AUX COOLING WATER HEAT EXCHANGERS (2)
- 50. CONDENSER AIR EJECTOR
- 51. CLOSED CYCLE COOLING WATER PUMPS (2)
- 52. CONDENSER VACUUM PUMPS (2)
- 53. LUBE OIL CONDITIONER
- 54. AIR RECEIVER
- 55. OWNER'S SUBSTATION
- 56. AUXILIARY SKID (3)
- 57. AMMONIA FLOW CONTROL SKID (2)
- 58. GENERATOR BREAKER ENCLOSURE (4)
- 59. GAS METER STATION
- 60. VISITOR PARKING
- 61. AMMONIA TRANSFER PUMPS
- 62. NEUTRALIZATION BASIN PUMPS
- 63. WAREHOUSE AND MAINTENANCE SHOP BUILDING
- 64. CLOSED COOLING WATER HEAD TANK
- 65. AUX BOILER FEED PUMPS (2)
- 66. CONDENSATE MAKEUP PUMPS



**NOT TO BE USED
FOR CONSTRUCTION**

DATE OF ISSUE: _____
SCALE: 1"=50'
50' 25' 0' 50' 100'

BLACK & VEATCH
ENGINEERS ARCHITECTS AND PLANNERS
1100 CALIFORNIA STREET, SUITE 100
SAN FRANCISCO, CALIFORNIA 94108
PHONE: (415) 774-2000
FAX: (415) 774-2001
WWW.BV.COM

PROJECT: SACRAMENTO COGENERATION AUTHORITY PROCTER & GAMBLE COGENERATION PROJECT		DRAWING NUMBER: 23933-CSTU-S1010		REV: B
SITE ARRANGEMENT		DATE: _____	BY: _____	FIGURE 3.3-1
NO	DATE	REVISIONS AND RECORD OF ISSUE	BY	DATE
B	9-9-80	ISSUED FOR PRELIMINARY AFC REVIEW		
A	9-9-80	ISSUED FOR PRELIMINARY AFC REVIEW		