

1002

10 MWe Solar Thermal
Central Receiver Pilot Plant

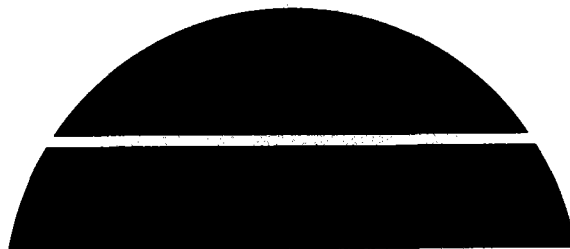
SOLAR FACILITIES DESIGN INTEGRATION

**SITE PLOT PLAN
(RADL ITEM 7-2)**

September 1979

WORK PERFORMED UNDER CONTRACT
DE-AC-03-79SF10499

STEARNS-ROGER ENGINEERING CORP
4500 CHERRY CREEK DRIVE
P.O. BOX 5888
DENVER, CO 80217

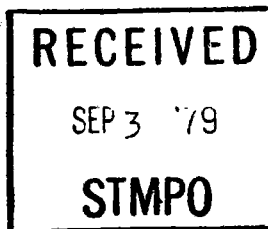


U.S. Department of Energy



Solar Energy

A3-130-EP-DSB-777
31 August 1979



Department of Energy
San Francisco Operations Office
1333 Broadway
Oakland, California 94612

Attention: Ms. Kathleen M. Day, Contracting Officer

Subject: CONTRACT DE-AC03-79SF10499 - SUBMITTAL OF SITE PLAN AND GENERAL ARRANGEMENT DRAWINGS (RADL ITEM NO. 7-2 AND 7-3)

- Reference:
- a) SCE Letter, N. J. DeHaven to R. W. Hallet, dated 23 August 1979;
Subject: Control Building Space Allocation and Arrangement
Solar One Generating Station
 - b) STMPO Letter No. 8-79-320, dated 23 August 1979;
Subject: Solar 10 MWe Pilot Plant - Make-up Water
Demineralizer System

Dear Ms. Day:

The enclosed drawings are hereby transmitted to STMPO in compliance with Exhibit II of the subject contract for RADL Items No. 7-2 and 7-3, respectively. These drawings are updates to those previously submitted at the end of the initial advanced agreement phase and reflect the currently approved site plan and general arrangements of the site, core area and SFDI designed buildings. (The detailed general arrangement of the SCE area in the southeast quadrant of the core area and the cooling tower area are defined on SCE drawings which are not included as part of this submittal).

It should be noted that enclosed drawings reflect the currently proposed site plan and overall general arrangement of the areas and equipment. These drawings are being included in the respective construction packages, as appropriate, to reflect overall site location and arrangements. However, specific areas are under revision as a result of recent design changes. These are summarized as follows:

- The plant control building general arrangement is being revised by SCE to reflect the most recent change noted in reference (a).
- The water treatment area is subject to change as a result of the decision to provide an exchange type water demineralizer system, in lieu of a permanently installed unit per reference (b).
- The location and size of the two TSS area electronic equipment enclosures is still preliminary.

° The cooling tower area reflects the SCE preliminary design layout.

° The location of the BCS camera pads, weather station towers and equipments and the major collector field electrical equipment is still preliminary and subject to change; however, these will be reflected in the Collector Field Layout Specification, RADL 2-12, which will soon be released.

Because of the nature of the Phase I design effort, these drawings will be changing slightly in the upcoming months to reflect the design effort. Accordingly, these drawings will be revised and resubmitted as firm information becomes available.

For additional technical information, please contact R. J. Perkins, at (714) 896-3073. For questions regarding contractual matters, contact the undersigned at (714) 896-1340.

Very truly yours,



D. S. Butler
Contract Administrator
SFDI Program

RJP:bj

Enclosures: I RADL No. 7-2, September 1979
Site Plot Plan Layout - Stearns-Roger Drawing XL 22934,
Sheet No. Y1-1, Revision #0 (STMPO Drawing 40C100 5133911)

II RADL No. 7-3, September 1979
General Arrangement Drawings, Consisting of:

- ° General Arrangement - Plot Plan, Stearns-Roger Drawing XL 22934, Sheet No. G1-1, Revision #1 (STMPO Drawing 40C100 5133900)
- ° General Arrangement - Core Area, Stearns-Roger Drawing XL 22934, Sheet No. G1-2, Revision #P-3 (STMPO Drawing 40C100 5133901)
- ° General Arrangement - Water Treatment Area, Stearns-Roger Drawing XL 22934, Sheet No. G1-3, Revision #P-2 (STMPO Drawing 40C100 5133902)
- ° Warehouse - Plan, Elevations and Sections, Stearns-Roger Drawing XL 22934, Sheet No. A5-1, Revision #A (STMPO Drawing 40A700 5133101)

Cy: ✓ R. N. Schweinberg, STMPO (10 + 1 reproducible)
C. P. Winarski, SCE (3)
W. R. Lang, S/R (1)
J. R. Friefeld
Rocketdyne (2)


MCDONNELL DOUGLAS
CORPORATION

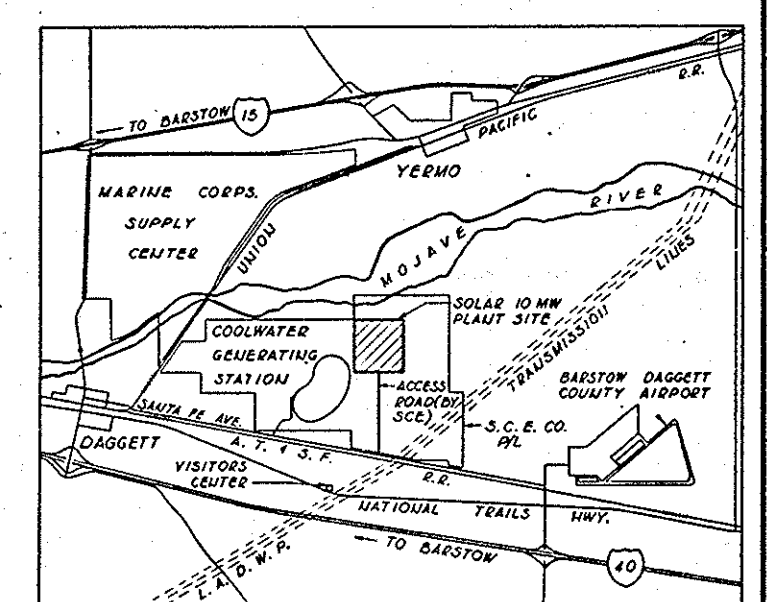
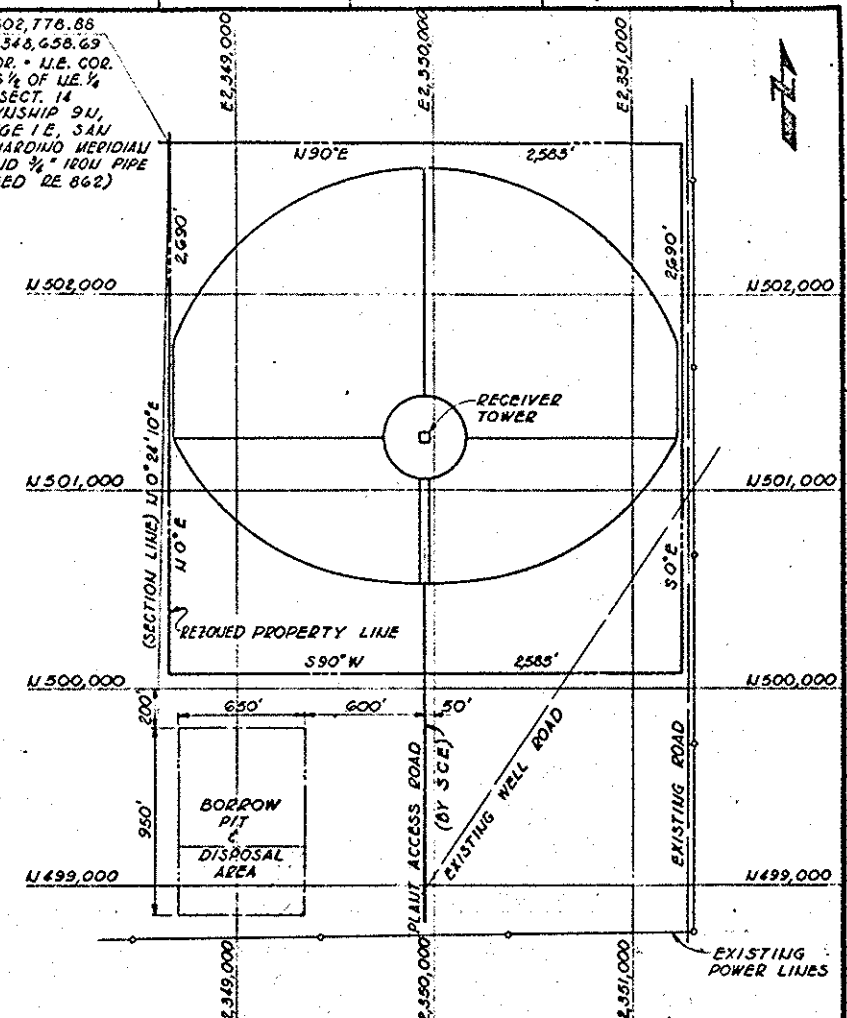
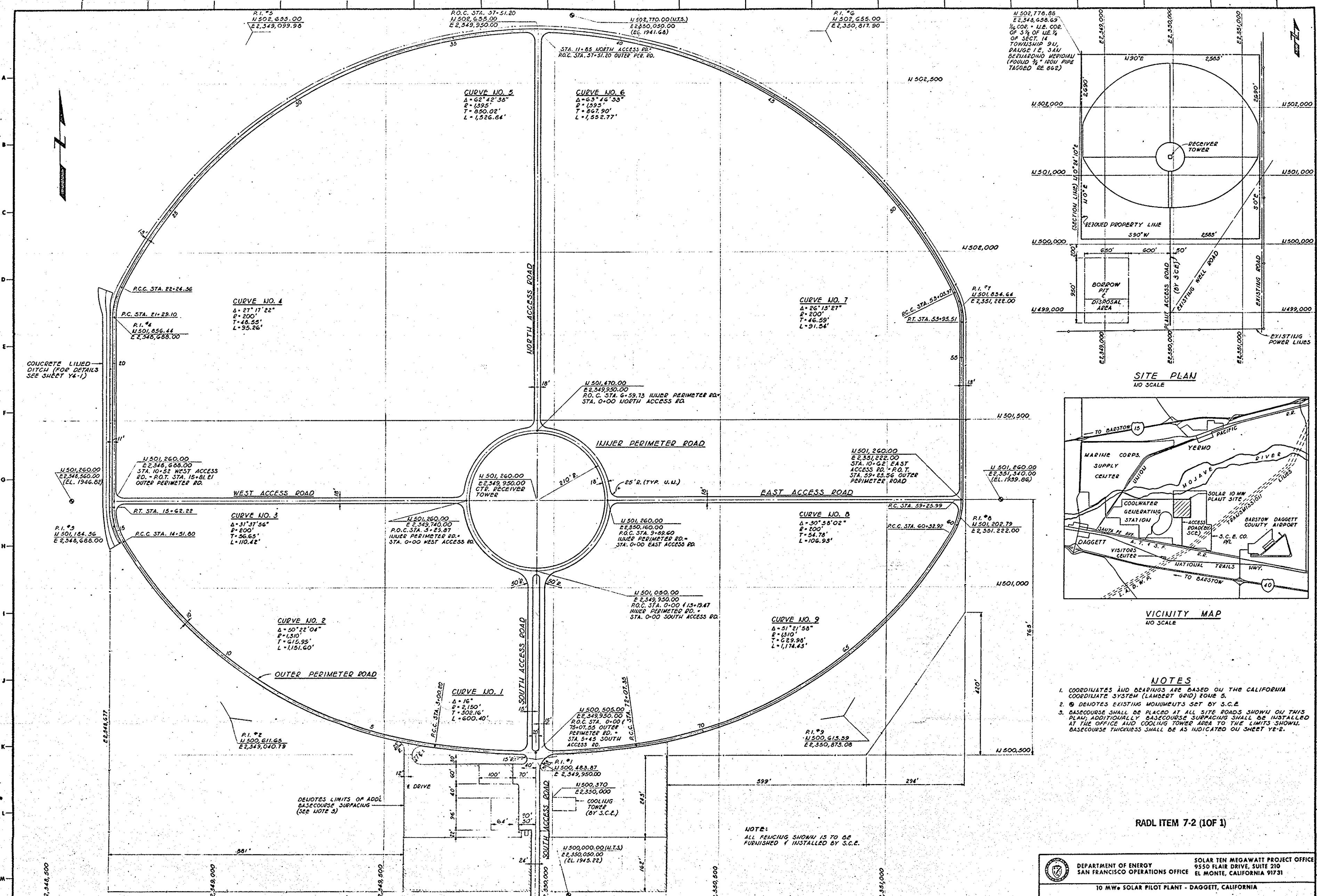
PREFACE

This site plan drawing is provided by McDonnell Douglas Astronautics Company (MDAC) in accordance with Department of Energy Contract No. DE-AC-03-79SF10499, Reports and Deliverables List (RADL), Item 7-2. The drawing was prepared by Stearns-Roger Engineering Corporation under MDAC Subcontract No. 78012035.

The drawing reflects the location and general layout of the 10 MWe Solar Pilot Plant to be constructed on SCE property near the existing Coolwater Generating Station in Daggett, California. This drawing was included in the release of the Site Development and Preliminary Earthwork Construction Package No. 1 (RADL 7-27) and will be included as a general reference drawing in all SFDI construction packages.

The general arrangement of the site is shown in other drawings contained in RADL Item No. 7-3. Ultimately, these final site plan, general arrangement drawings, and building floor plans, elevations, etc. will be included in the OPDD, as appropriate, to reflect the as-designed Pilot Plant configuration.

Questions concerning this drawing should be directed to R. J. Perkins at (714) 896-3073.



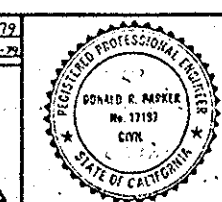
- NOTES**
- COORDINATES AND BEARINGS ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM (LAMBERT GRID) ZONE 5.
 - ⊙ DENOTES EXISTING MONUMENTS SET BY S.C.E.
 - BASECOURSE SHALL BE PLACED AT ALL SITE ROADS SHOWN ON THIS PLAN; ADDITIONAL BASECOURSE SURFACING SHALL BE INSTALLED AT THE OFFICE AND COOLING TOWER AREA TO THE LIMITS SHOWN. BASECOURSE THICKNESS SHALL BE AS INDICATED ON SHEET YE-2.

NOTE:
ALL FENCING SHOWN IS TO BE FURNISHED & INSTALLED BY S.C.E.

RADL ITEM 7-2 (10F 1)

DEPARTMENT OF ENERGY SOLAR TEN MEGAWATT PROJECT OFFICE
 SAN FRANCISCO OPERATIONS OFFICE 9550 FLAIR DRIVE, SUITE 210
 EL MONTE, CALIFORNIA 91731
 10 MW SOLAR PILOT PLANT - DAGGETT, CALIFORNIA

NO.	REVISIONS	DATE	BY	CHKD	APP'D	DOC NO.	REFERENCE DRAWINGS	PRINT RECORD	DRAWN	IN	DATE	FOR APPROVAL	BY	DATE	FOR CONST.
10	APPROVED FOR CONSTRUCTION - CONST. Pkg. #1	6-13-79	LM	KCP	JAR	400005133900	G-1 GENERAL APPGT PLOT PLAN				6-11-79	APP FOR CONST	6-11-79		



SOLAR FACILITIES DESIGN INTEGRATOR

McDONNELL DOUGLAS	6-11-79
STEARNES ROGER	6-11-79
ROCKETDYNE	6-13-79
MDAC	6-13-79
SPDI	6-13-79

TITLE: **SITE PLOT PLAN LAYOUT**

SCALE: 1" = 100'

DATE: 6-13-79

CIVIL (YI-1)

40C1005133911

1 OF 1