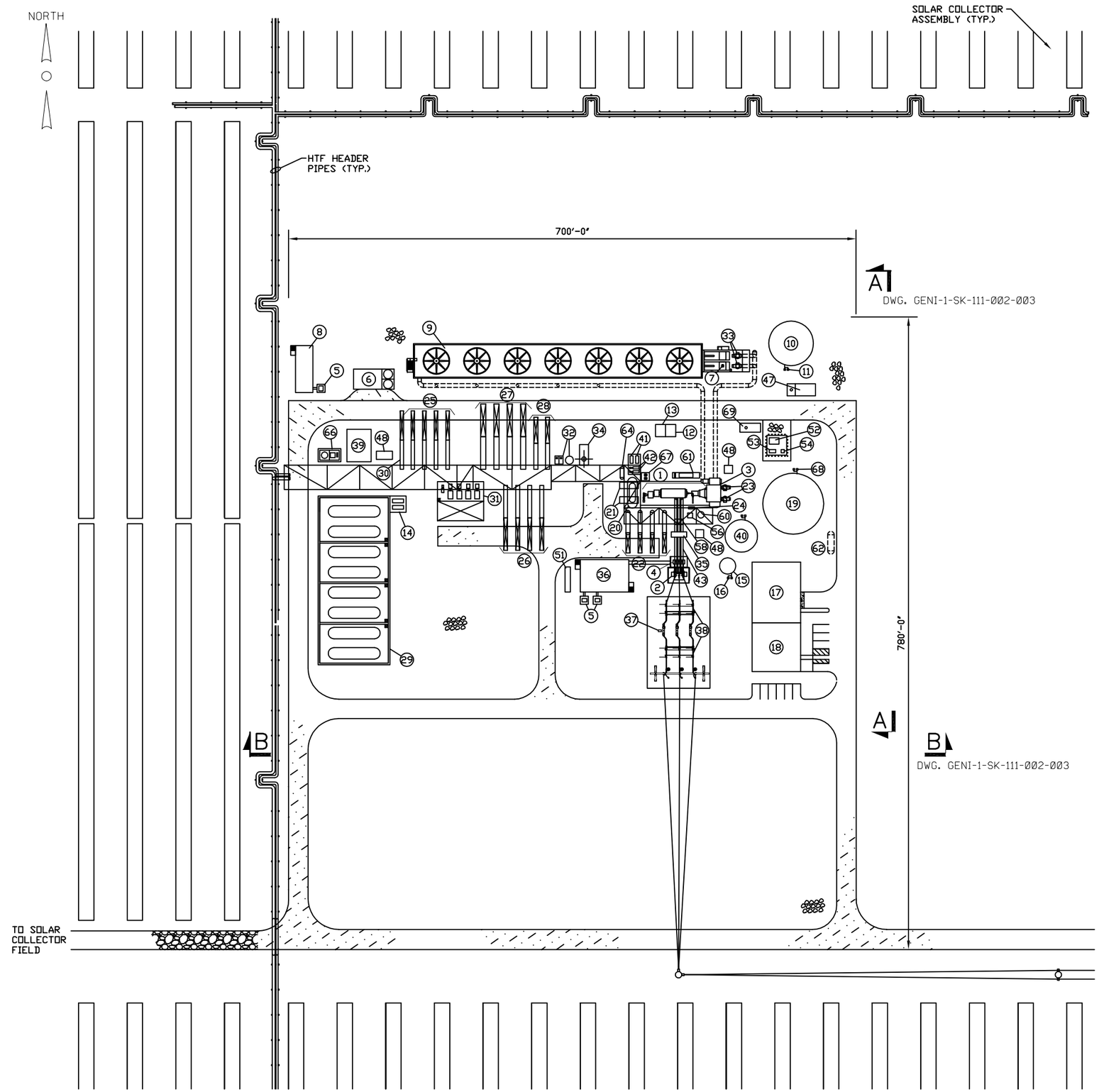

EQUIPMENT DESCRIPTIONS

1 STEAM TURBINE/GENERATOR
2 GSU TRANSFORMER
3 SURFACE CONDENSER
4 UNIT AUXILIARY TRANSFORMER
5 STATION SERVICE TRANSFORMERS
6 COOLING TOWER CHEMICAL FEED/STORAGE AREA
7 AUXILIARY COOLING PUMP (BACK-UP/START-UP)
8 COOLING TOWER ELECTRICAL ENCLOSURE
9 COOLING TOWER
10 RAW, FIRE, TANK (500,000 GAL)
11 SERVICE WATER PUMPS
12 CO2 BOTTLE STORAGE
13 H2 BOTTLE STORAGE
14 OVERFLOW TANK PUMPS
15 DEMIN WATER STORAGE TANK (40,000 GAL)
16 DEMIN WATER PUMP SKID
17 WATER TREATMENT AREA (CYCLE CHEM FEED, DEMIN TRAIN, MMF, RO, SAMPLE PANEL, LAB, AIR COMP)
18 CONTROL ROOM/WAREHOUSE BUILDING
19 TREATED WATER TANK (1,250,000 GAL)
20 DEAERATOR/STORAGE TANK/FEEDWATER HEATER
21 FEEDWATER PUMPS
22 FEEDWATER HEATERS
23 CONDENSATE PUMPS
24 GLAND STEAM CONDENSER
25 ECONOMIZERS
26 REHEATERS
27 EVAPORATORS
28 SUPERHEATERS
29 EXPANSION TANKS AND CONTAINMENT AREA
30 HTF FREEZE PROTECTION HEAT EXCHANGER
31 HTF CIRCULATING PUMPS AND CONTAINMENT AREA
32 BLOWDOWN TANK AND SUMP/PUMPS
33 CIRCULATING WATER PUMPS
34 AUXILIARY BOILER
35 GENERATOR CIRCUIT BREAKER
36 MAIN ELECTRICAL ENCLOSURE
37 MAIN CIRCUIT BREAKER
38 MAIN DISCONNECT
39 ULLAGE SYSTEM AND CONTAINMENT AREA
40 WASTE WATER TANK (250,000 GAL)
41 CLOSED COOLING WATER HEAT EXCHANGERS
42 CLOSED COOLING WATER PUMPS
43 ISOLATED PHASE BUS DUCT
44 NOT USED
45 NOT USED
46 NOT USED
47 FIRE PUMP HOUSE
48 FIRE PROTECTION SPRINKLER HOUSE
49 NOT USED
50 NOT USED
51 4KV, 2500KVA UPS
52 ABOVE GROUND DIESEL FUEL STORAGE TANK (3,000 GAL)
53 DIESEL FUEL PUMP
54 WASH TRUCK DEMIN FILL STATION
55 NOT USED
56 STEAM JET AIR INJECTOR
57 NOT USED
58 EXCITATION TRANSFORMER
59 NOT USED
60 TURBINE AREA FLASH TANK
61 LUBE OIL AND EHC SKID
62 OIL/WATER SEPARATOR
63 NOT USED
64 CLOSED COOLING WATER EXPANSION TANK
65 NOT USED
66 NITROGEN BULK STORAGE AND VAPORIZER
67 EQUIPMENT DRAINS SUMP AND PUMPS
68 TREATED WATER PUMP SKID
69 EMERGENCY DIESEL GENERATOR

NOTES:

1. NOT FOR CONSTRUCTION.

LEGEND:

- YARD AGGREGATE
- ROAD AGGREGATE
- ASPHALT
- CONCRETE
- PIPE RACK
- PULL SPACE

60 0 60 120 180

SCALE: 1" = 60'

REV	DATE	DESCRIPTION	DRAWN	CHECKED	LEAD DESIGNER	ENGINEER/ TECH SPEC	LEAD DISC ENGINEER	PROJ ENGR MANAGER	PROJECT MANAGER
D	08 17 09	CHANGED FIGURE NUMBER	PL	JF	PL	JF	JF	JF	CN
C	08 12 09	ISSUED FOR REVIEW	PL	JF	PL	JF	JF	JF	CN
B	07 09 09	ISSUE FOR REVIEW	RVG	TR	PL	TR	JF	JF	BP
A	04 27 09	ISSUED FOR REVIEW	SC	TR	PL	TR	JF	JF	BP

PRELIMINARY STATUS — LDE J. FOSTER — DATE 4/27/09

REPRESENTS GENERAL DESIGN CONCEPTS BASED ON ASSUMPTIONS. REVIEWED NOT CHECKED.

APPROVED STATUS — LDE — DATE

REPRESENTS REVIEWED AND APPROVED DESIGN. ANY PORTION MARKED "HOLD" RETAINS PRELIMINARY STATUS.

ORIGINATING PERSONNEL

DRAWN BY: S. CHERRY
CHECKED BY: J. FOSTER
LEAD DESIGNER: P. LOUEN
ENGINEER/TECH SPECIALIST: J. FOSTER
PROJECT ENGINEERING MANAGER: J. FOSTER
PROJECT MANAGER: C. NITOFF

PROFESSIONAL ENGINEER'S SEAL

Zero Harm — Leadership, No incidents, Safe behavior

ORIGINALLY PREPARED UNDER THE RESPONSIBLE SUPERVISION OF
PO: STATE:
LIC. NO: DATE:

WorleyParsons resources & energy

CLIENT/PROJECT TITLE

GENESIS SOLAR, LLC
GENESIS SOLAR ENERGY PROJECT

GENERAL ARRANGEMENT
CONCEPTUAL POWER BLOCK LAYOUT UNIT 1
FIGURE 3.4-2

SCALE 1"=60'
DRAWING SIZE ARCH D (36" x 24")

WORLEYPARSONS DWG. NO. GENI-1-SK-111-002-002
REV D

GENI-1-SK-111-002-RD.dwg
17-Aug-2009 - 16:35