

SOLAR COLLECTOR ASSEMBLY (TYP.)

HTF HEADER PIPES (TYP.)

700'-0"

A1
DWG. GENI-2-SK-111-002-003

780'-0"

UNIT SWITCHYARD

TO SOLAR COLLECTOR FIELD UNIT 1

FROM UNIT 1

SITE ACCESS ROAD
TO COLORADO RIVER SUBSTATION

A1
DWG. GENI-2-SK-111-002-003

B1

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, RD, 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 AND WARMUP HEATER (GAS-FIRED)
- 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 NOT USED
- 38 NOT USED
- 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 10s-START DIESEL GENERATOR
- 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.

REV	DATE	DESCRIPTION	BY	CHECKED	STATUS	DATE
D	08/09	CHANGED FIGURE NUMBER	PL	JF	PL	JF
C	08/09	ISSUED FOR REVIEW	PL	JF	PL	JF
B	08/09	ISSUED FOR REVIEW	RVG	SR	PL	SR
A	04/09	ISSUED FOR REVIEW	SC	SR	PL	SR

PRELIMINARY STATUS DATE REPRESENTS GENERAL DESIGN CONCEPTS BASED ON ASSUMPTIONS. REVIEWED NOT CHECKED.
LIE J. FOSTER 4/27/09

APPROVED STATUS DATE REPRESENTS REVIEWED AND APPROVED DESIGN. ANY PORTION MARKED "HOLD" RETAINS PRELIMINARY STATUS.
LIE J. FOSTER

DESIGNED BY S. CHERRY	PROFESSIONAL ENGINEER'S SEAL
CHECKED BY J. FOSTER	
LEAD DESIGNER P. LOUEN	
ENGINEER/TECH SPECIALIST J. FOSTER	
PROJECT ENGINEERING MANAGER J. FOSTER	
PROJECT MANAGER C. NITOFF	

Zero Harm Leadership No Incidents Safe Behaviors
FORMALLY PREPARED UNDER THE RESPONSIBLE SUPERVISION OF
PP- STATO. DATE: LIC. NO.



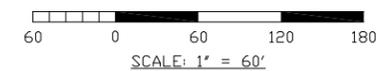
CLIENT/PROJECT TITLE
GENESIS SOLAR, LLC
GENESIS SOLAR ENERGY PROJECT

GENERAL ARRANGEMENT
CONCEPTUAL POWER BLOCK LAYOUT UNIT 2
FIGURE 3.4-3

SCALE 1"=60'	DRAWING SIZE ARCH D (36" x 24")
WORLEYPARSONS' DWG. NO. GENI-2-SK-111-002-002	REV D

LEGEND:

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



GENI-2-SK-111-002-002-003-001.dwg 18-Aug-2009 07:18