CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

Permit No: 0107823

Insp Area: 4

Site Address: 4849 DARINGTON LN SAC

Sub-Type: NSFR

Parcel No: 225-1610-053 WESTBR 6 LOT 53

Housing (Y/N): N

CONTRACTOR
MORRISON HOMES
1130 IRON POINT RD STE 120
FOLSOM CA 95630

OWNER
MORRISON HOMES
1130 IRON POINT RD #120
FOLSOM CA 95630

ARCHITECT

Nature of Work: NSFR MP1958/OPT 9 RMS

CONSTRUCTION LENDING AGENCY : I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name _____ Lender'sAddress _____

LICENSED CONTRACTORS DECLARATION: I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

License Class B License Number 519465 Date 7-3-01 Contractor Signature _____

OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code: any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she isexempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500.00).

____ I, as a owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professional Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he/she did not build or improve for the purpose of sale.)

____ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.)

____ I am exempt under Sec. _____ B & PC for this reason: _____

Date _____ Owner Signature _____

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and herby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes.

Date 7-3-01 Applicant Agent Signature _____

WORKER'S COMPENSATION DECLARATION: I hereby affirm under penalty of perjury one of the following declarations:

____ I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued.

X I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier ZURICH-AMERICAN INS. CO. Policy Number WC2090701-03 Exp Date 11/01/2001

____ (This section need not be completed if the permit is for one hundred dollars ($100) or less.) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date 7-3-01 Applicant Signature _____

NEIGHBORHOOD PLANNING AND DEVELOPMENT SERVICES

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.

THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.

MP 1958/0

RESIDENTIAL SUBDIVISION BUILDING PERMIT APPLICATION

Project Address: 4849 Darlington Lane Assessor Parcel # 225-1610-053
Lot Number: 53 Subdivision Westborough Village 6

OWNER INFORMATION:

Legal Property Owner: Morrison Homes Phone# (916) 355-8900
Owner Address: 1130 Iron Point Rd #120 City Folsom State CA Zip 95630

CONTRACTOR INFORMATION:

Contractor: Morrison Homes Lic. # 519465 Phone # 355-8900 Fax 355-0100

PROJECT INFORMATION:

Land Use Zone R1A Occupancy Group R3 Construction Type VN Fed Code 1A

No. of Stories: 1 No. of Rooms: 8 9 Street Width: 70'

1st Floor Area 958 2nd Floor Area _____ Basement _____ Roof Material _____

AREA IN SQUARE FOOT OF:

Dwelling/Living ~~1958~~ 2161
Garage/Storage ~~637~~ 434
Decks/Balconies 190
Carports _____

SCOPE OF WORK: New Single Family Dwelling

FOR OFFICE USE ONLY

- ☐ Information Above Complete
- ☐ Violation Files Checked
- ☐ Standard Setbacks
- ☐ County Sewer
- ☐ AR Flood Waiver Required
- ☐ Flood Elevation Certificate Required
- ☐ Water Development Infill Area
- ☐ Planning Approval
- ☐ Design Review Approval
- ☐ Special Fee Districts Apply: _____

THE FOLLOWING MUST BE PROVIDED IN ORDER TO SUBMIT FOR PERMIT

- ☐ 2 COMPLETE PLOT PLANS, LEGIBLE & DRAWN TO SCALE
- ☐ 11 X 17 COPY OF FLOOR PLAN WITH FOLLOWING INFORMATION
  - a) Assessors Parcel Number
  - b) New Floor Area
  - c) Owners Name
  - d) Project Address

Permit #

CERTIFICATION OF INSULATION

PART I GENERAL

ADDRESS OR TRACT	SACRAMENTO INSULATION CONTRACTORS
Morrison Homes Mark - Del Lago Lot to Lot 4849 DARLINGTON	LOT # - ☐ P.O. BOX 854, WEST SACRAMENTO, CA 95691 LIC. #202026 ☐ 1309 MELODY ROAD, MARYSVILLE, CA 95901 LIC. #202026 ☐ P.O. BOX 9651, FRESNO, CA 93793-9651 LIC. #202026 ☐ P.O. BOX 1631, RENO, NV 89505 LIC. #10675 ☐ 3326 A PONDEROSA WAY, LAS VEGAS, NV 89118 LIC. #10675 DATE INSULATION COMPLETED

PART II AREAS INSULATED

WALLS	CEILINGS	FLOORS
(SQUARE FEET)	(SQUARE FEET)	(SQUARE FEET)
TYPE OF INSULATION	TYPE OF INSULATION	TYPE OF INSULATION
MATERIAL: FIBERGLASS	MATERIAL: FIBERGLASS	MATERIAL: FIBERGLASS
FORM: BATTS	FORM: BATTS & BLOW	FORM: BATTS
MANUFACTURER'S PRODUCT I.D.	MANUFACTURER'S PRODUCT I.D.	MANUFACTURER'S PRODUCT I.D.
MANUFACTURER: OCF	MANUFACTURER: OCF BAGS	MANUFACTURER: OCF
R - VALUE INSTALLED: 13	R - VALUE INSTALLED: 30	R - VALUE INSTALLED:
APPLIED THICKNESS: 3 1/2"	APPLIED THICKNESS: 12"	APPLIED THICKNESS:
	MIN. INSTALLED WEIGHT PER SQUARE FOOT:	

KNEE WALLS IF R-VALUE IS OTHER THAN WALLS ABOVE

MATERIAL	FORM	R VALUE	MANUFACTURER
FIBERGLASS	BATTS	13 3 1/2"	OCF

AIR INFILTRATION SEALANT

MATERIAL	MANUFACTURER
Foam	W R GRACE

PART III CERTIFICATION

THIS IS TO CERTIFY THAT INSULATION AND/OR SEALANT HAS BEEN INSTALLED IN CONFORMANCE WITH APPLICABLE CODES, MATERIAL STANDARDS AND REGULATIONS.

SIGNATURE—INSULATION CONTRACTOR	TITLE	DATE
JEFF Engle	MANAGER	
SIGNATURE—GENERAL CONTRACTOR	TITLE	DATE

REMARKS:

SIC – 303

BUILDER COPY

Natomas Unified School District
1515 Sports Drive, #1 • Sacramento, CA 95834-1905
Phone 916/641-3300 • Fax 916/928-1629

CERTIFICATION OF COMPLIANCE

SCHOOL DISTRICT DEVELOPMENT FEES

PART 1: TO BE COMPLETED BY APPLICANT

Property Owner's Name	[illegible] 333-9920
Owner's Address	[illegible]
Project Address	[illegible] Lot 53
Parcel Number	
Subdivision Name	[illegible]
Number of Units	1
Print Applicant's Name	[illegible] Applicant's Signature [signature]
Title of Applicant	[illegible]
Date 5/10/01	Telephone Number 723-9943

PART II: TO BE COMPLETED BY BUILDING DEPARTMENT

Plan Identification Number	010623
Building Type (Check One)	☒ Residential ☐ Apartment/Condominium ☐ Commercial/Industrial
Square Feet of Chargeable Building Area	2101
Signature	[signature]
Title [illegible]	Date 6/5/01

PART III: TO BE COMPLETED BY NATOMAS UNIFIED SCHOOL DISTRICT

District Certification Number			
Fees Collected:			
Residential:	2101	Sq. Ft. X $ [illegible]	= $ 7,289.35
Apartment/Condominium:		Sq. Ft. X $	= $
Commercial/Industrial:		Sq. Ft. X $	= $

NOTICE TO APPLICANT: Pursuant to government code section 66020 (d), this will serve to notify you that the 90-day approval period in which you may protest the fees, or other payment identified above, will begin to run on the date in which the building or installation permit for this project is issued, or on which they are paid to the District, or to another public entity authorized to collect them on behalf of the District, whichever is earlier.

Applicant Signature: [signature] **Date:** 5/16/01

This certification covers only the amount of square footage indicated above. Any additions or corrections to the square footage for this project will require an amendment to the Certificate of Compliance.

As the authorize Natomas Unified School District official, I hereby certify that the requirements of Government Code Section 95995 have been complied with by the above signed applicant.

SIGNATURE: [signature] **DATE:** 5/16/01

TITLE: Michael Morman
Facilities Planning Director

WHITE-SCHOOL DISTRICT YELLOW-SCHOOL DISTRICT PINK-BUILDING DEPARTMENT GOLD-APPLICANT

FM/lg X/BusServ/Doc/Frank/Dev Fees/Form

OMEGA PRODUCTS INTERNATIONAL, INC.

DIAMOND WALL INSULATING STUCCO SYSTEM

JOB ADDRESS: 4849 DARLINGTON LANE

ICBO Report #4004

Date of Job Completion 1-13-02

PLASTERING CONTRACTOR:

Name: Stucco Works Inc

Address: 5900 Wareh... Way Sacramento Ca

Telephone No: (916) 383 66 99

Contractor Number of Diamond Wall System 2175

This is to certify that the exterior coating system on the building exterior at the above address has been installed in accordance with the evaluation report specified above and the manufacturer's instructions.

2-13-02
Date

Signature of authorized representative of Plastering Contractor

This installation card must be presented to the building inspector after completion of work and before final inspection.

Morrison Homes®

PLOT PLAN ASSIGNMENT

ORDERED BY: Julie Osterman
Fax Plots to 355-0100

DATE: ~~4/17/01~~ ~~6/4/01~~

Revised 6/11/01

COMMUNITY: Bel Lago (Westlake)

TRACT #: 509

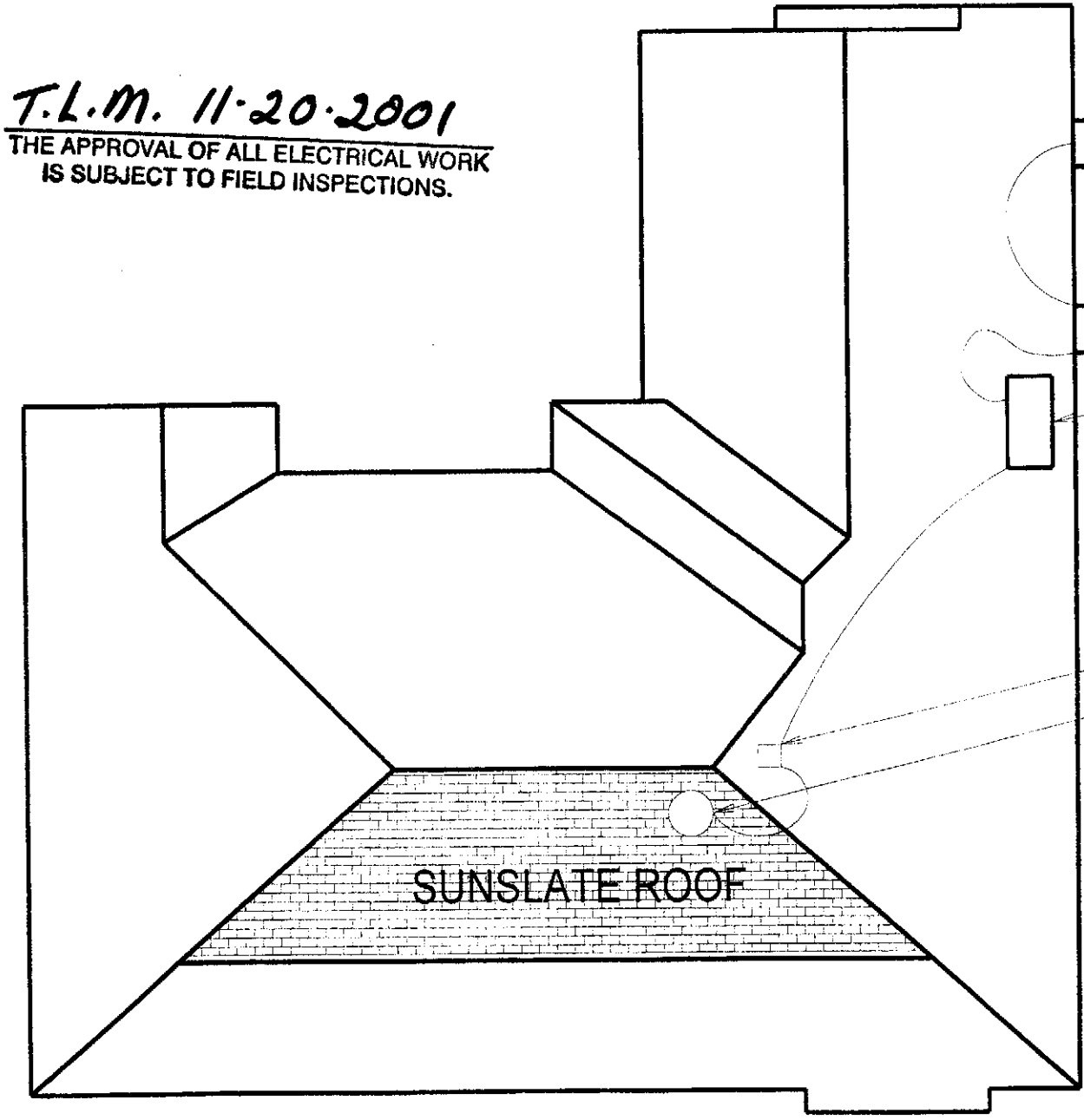
JOB	LOT	Plan / Elevation	Garage/Side	Drive-Way	Corner Lot	Tract Description	Fit List	Plot Plan Assignment	Order Plot Plans	Proceed With Bldg Permits & ATP
36	36	1958A	2L, 1R	R	No	Bel Lago		X	✔	✔
37	37	2819C	3	L	No	Bel Lago		X	✔	✔
38	38	1958C	**2L, 1R***	R	No	Bel Lago		X	✔	✔
39	39	2819B	3	L	No	Bel Lago		X	✔	✔
52	52	3262B	2R, 1L	R	No	Bel Lago		X	✔	✔
53	53	1958B	**2R, ***	L	No	Bel Lago		X	✔	**With Bonus Room**
51	51	1958A	2R,1L	L	No	Bel Lago		X	✔	No bonus

DISTRIBUTION:

C. Wexted	B. Sharkey	Construction - Bel Lago
G. Kirkegaard	E. Grifith	Sales - Bel Lago
J. Osterman	T. Bailey	Engineers - Wood Rodgers Haley Bonfantine 341-7767 fax

T.L.M. 11·20·2001

THE APPROVAL OF ALL ELECTRICAL WORK IS SUBJECT TO FIELD INSPECTIONS.



FILE COPY

4849 Darlington Lane
Permit # 107823

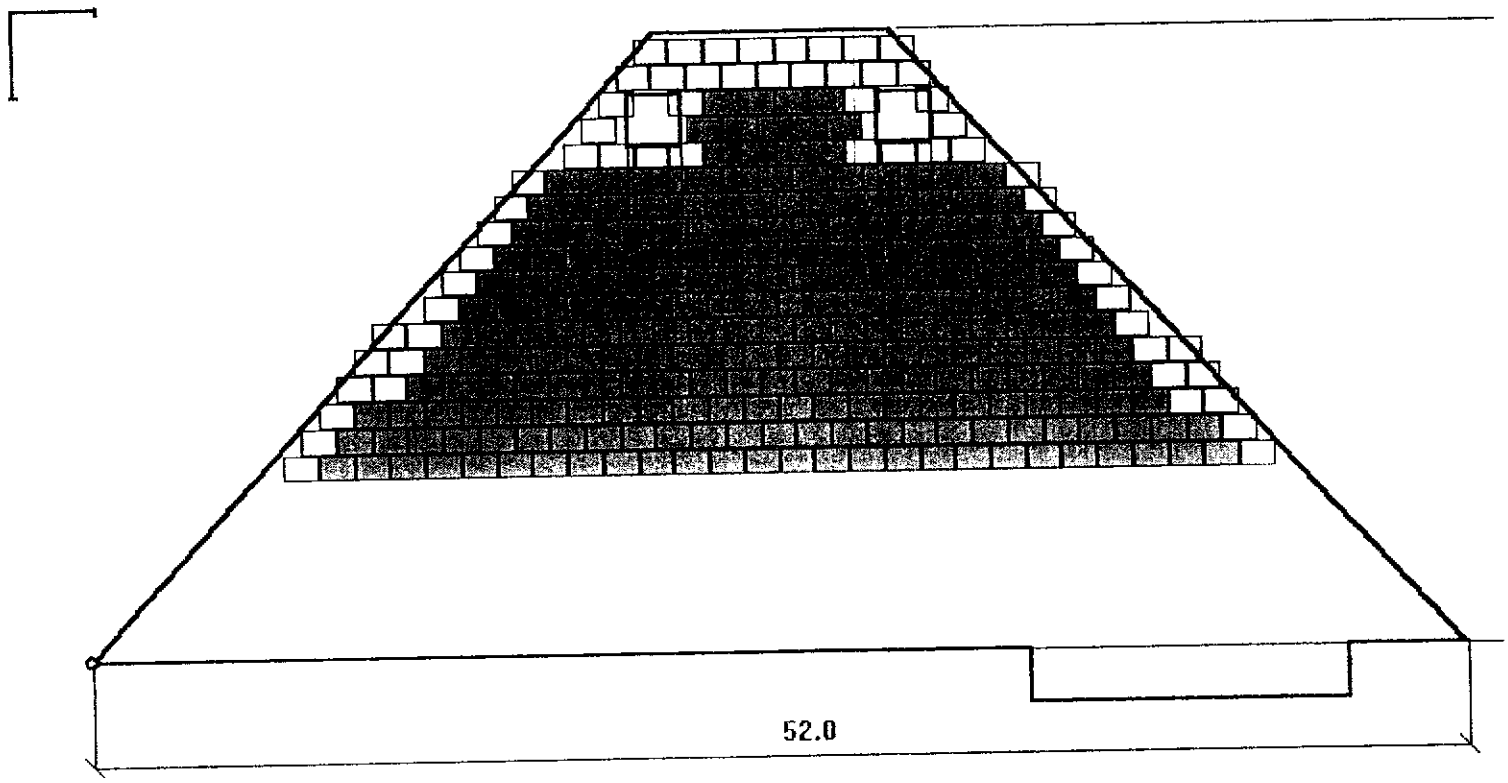
MORRISON BEL LAGO PLAN#1958 LOT#53

ATLANTIS ENERGY Inc.

Project Name: ROOF B

System Design

Offer S-01.10.S1



Total installed power DC @ STC:	**2,928**	**[W]**
Total installed power AC @ PTC:	**2,213**	**[W]**
Sunslates surface:	**310.0**	**Sq.Ft.**

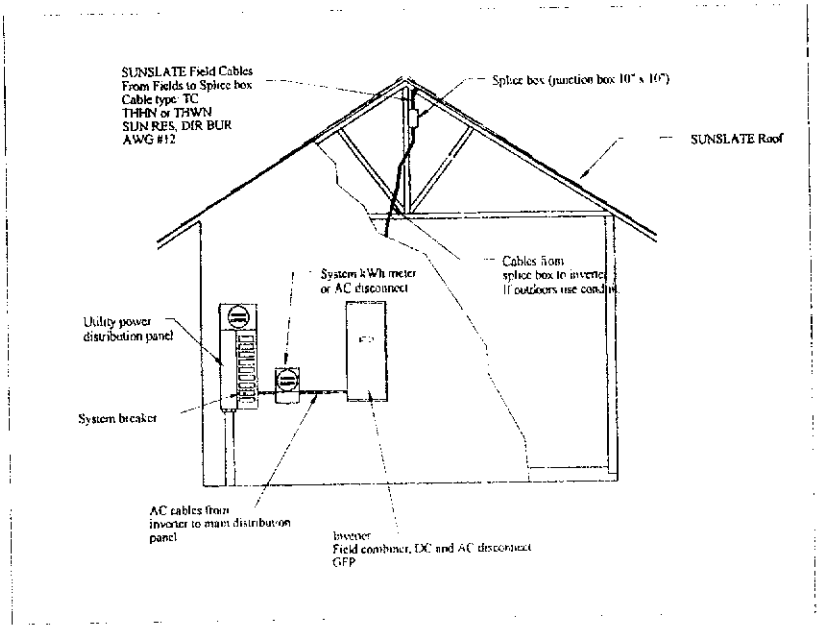
THE APPROVAL OF ALL ELECTRICAL WORK IS SUBJECT TO FIELD INSPECTIONS.

Orientation
0.00° from South

4610 NORTHGATE BLV. 150, SACRAMENTO CA95834, Tel:916 920 9500 Fax: 916 927 1697 Info@atlantisenergy.com

240 - SUNSLATES® SYSTEM PACKAGE SPECIFICATIONS

Maximum Surface	415	Sq.Ft.
Minimum Surface	355	Sq.Ft.
SUNSLATES® Surface	311	Sq.Ft.
SUNSLATES® Power @ STC	2.93	kWatts



MATERIALS

ROOF	SUNSLATES® /w cables	SM-II	240
	Field cables	Max 50' each	10
	Bridge cables	Field loop	12
	Twister cables	Row to row cable	16
	Shields	Strain relief	250
	Silicone sealant	Shin-Etsu, 1 component RTV- tube	3
	'Eternit' slates	40 x 72	80
	'Eternit' starters	40 x 42	42
	Hooks	200 per box	2
	Installation tool	'T' type	2
	Battens - vertical	2 x 2 in feet	--
	Battens - horizontal	1 x 4 in feet	--
NOTE: Other materials required for roof installation (as flashing, ridge covers…etc.) will be ordered and billed as needed. Does not include roof under-laymen's (as plywood, roofing felt…etc.). Wood price may vary depending on market prices.			
ELECTRICAL	DC to AC Inverter	ST 2500 XR/ 240, 3 wire	1
	Pull box / splice box	10" x 10" with terminal strips	1
	Field combiner box /w fuses	TCB - 10 /10 inputs	1
	Meter base or disconnect	4 Jaw meter base	1
	System breaker	15 Amp / 240 Volt	1
	DC meter / DC amps and DC volts	500 VDC, 10 ADC	1
NOTE: Cables from splice box to inverter (12 total) and from inverter to beaker panel are to be provided by contractor. For cable sizing review the table below. Other materials required for electrical installation (as conduits, pull boxes, cables, fittings…etc.) are not included.			

SUNSLATES® SPECIFICATIONS:

One SUNSLATE®

SUNSLATES® Model	Pmax Watts	Vmax Volts	Voc Volts	Imax Amps	Isc Amps
SM-II	12.20	2.86	3.67	4.30	4.72

Field of 24 SUNSLATES® in series (String)

SUNSLATES® Model	Pmax Watts	Vmax Volts	Voc Volts	Imax Amps	Isc Amps
24 - SM-II	292.8	68.64	88.08	4.30	4.72

System of 10 SUNSLATES® fields in parallel

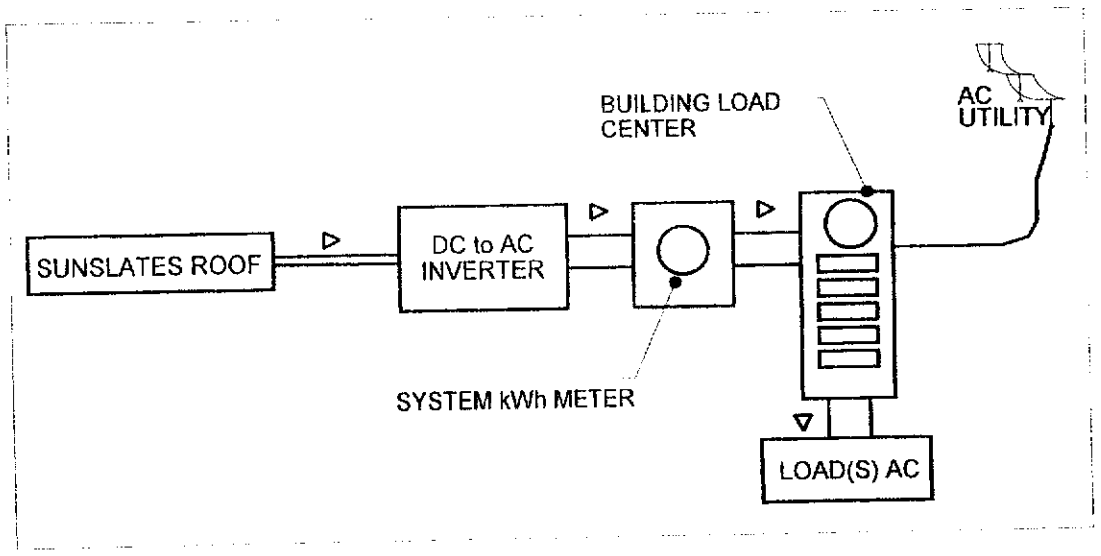
SUNSLATES® Model	Pmax Watts	Vmax Volts	Voc Volts	Imax Amps	Isc Amps
24 - SM-II	2,928.0	68.64	88.08	43.0	47.2

The system is designed for a 48VDC nominal voltage. The electrical characteristics are within ±10 percent of the indicated values of Isc, Voc and Pmax under standard test conditions (1000 W/m^2 irradiance, 25 degC (77 degF) cell temperature and AM 1:5 spectrum). Under normal conditions, the SUNSLATE™ is likely to experience conditions that produce more current and/or voltage then reported at standard test conditions (output may vary depending on time of day, time of year, ambient conditions, ambient temperature and shading). Accordingly, the value of Isc and Voc marked on the SUNSLATE should be multiplied by a factor 1.25 when determining component voltage ratings, conductor ampacities, fuse size and the size of controls connected to the PV output.

SYSTEM DESCRIPTION

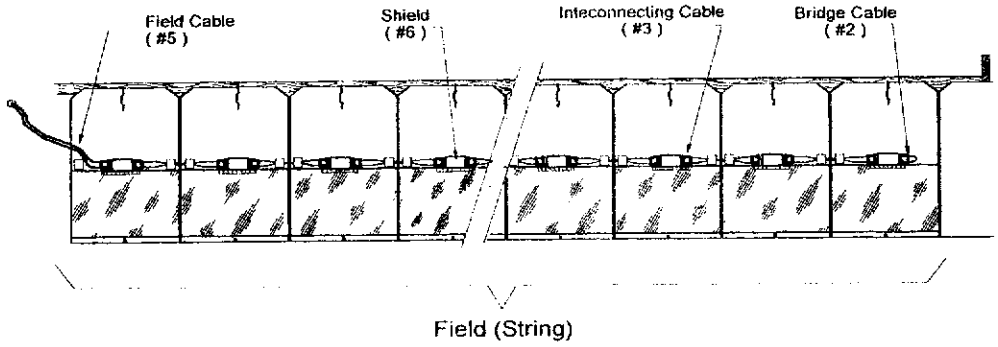
The grid connected power systems consist from:

- Installed SUNSLATES®
- Cables
- DC to AC inverter
- Load (building AC loads from distribution panel).



This is one of the most common SUNSLATES® system designs. Saving the energy is done by back feeding the utility grid with the generated power. The system will generate electricity in the day, run the kWh meter backwards, building up a credit (if access power is generated) and the building will use this credit at night.

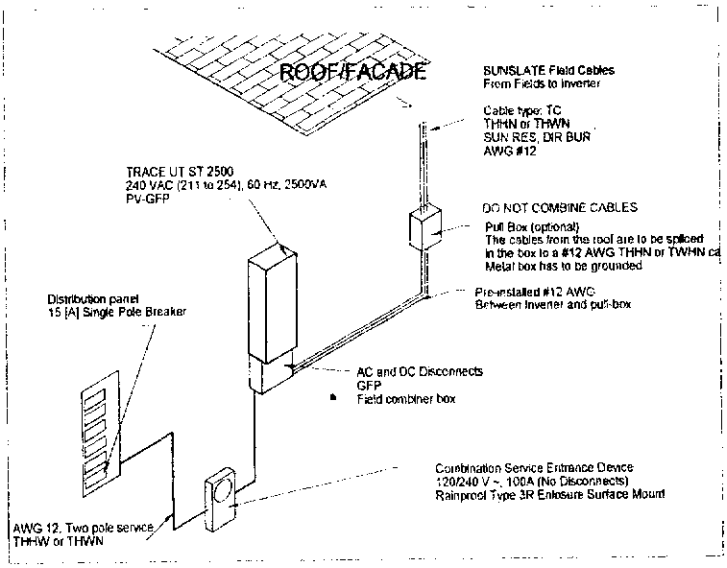
The building (roof) on which the SUNSLATES® are installed is setup from SUNSLATES® fields (strings). All the fields are installed with an equal number of SUNSLATES® in them (24 SUNSLATES®). The field has a beginning (bridge cable) and an end (field connecting cable). When installing the field, always start (first SUNSLATES® from the string) with bridge cable and end with field connecting cable, which goes through the roof into the building. The "System Design" document (see appendix 2), will show how many fields are needed and the position of every field.



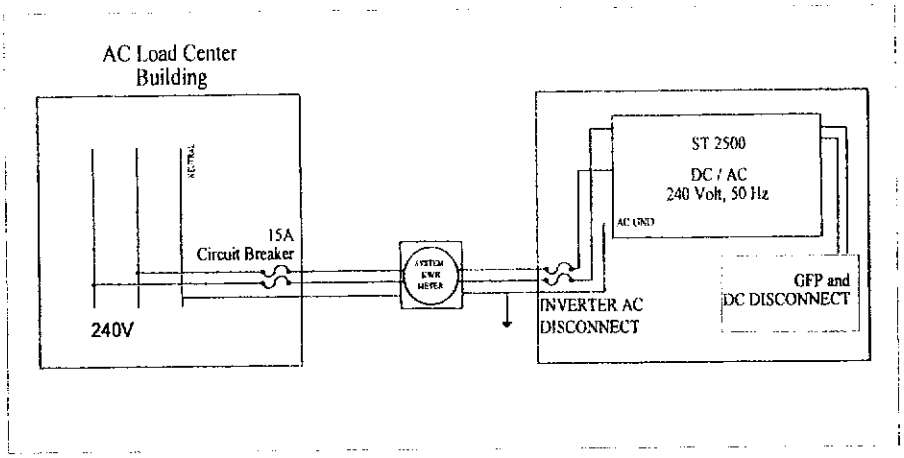
For SUNSLATES® installation details refer to 'SUNSLATES® INSTALLATION MANUAL'
Part # MN100

The fields are then extended using pre-installed cables at the splice box, which is located in a convenient location. The pre-installed cables are mounted run to the inverter where they are combined in parallel. The inverter will transform the DC power into AC matching the utility grid. The produced power will be back-fed into the main electrical distribution panel of the building and if not used by any load from the building will be led back to the utility grid by rotating back the utility's kWh-meter. The additional kWh meter is for monitoring the SUNSLATES® system performance only.

SYSTEM WIRING



AC LINE DIAGRAM



The inverter system consists from:

- DC to AC converter
- Field combiner board
- GFP on the DC side
- DC and AC inverter disconnects

All components are UL listed and pre-installed to comply with NEC section 690. The inverter comes pre-wired and in a wall mount NEMA3R enclosure.

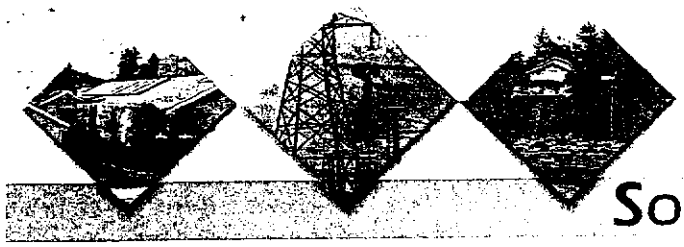
See inverter specifications and installation manual for details

DC WIRE SIZING TABLE

All DC conductors are to be sized using the table below. The voltage drop will be no greater then 1.5-% from maximum conditions. Refer to 310-15 and 310-16 of NEC (1996) for correction factors.

				@ 77 degF		@ 149 degF		Metallic Conduit		
Gauge A.W.G.	R @ 77 Ohms Per 1000'	R @ 149 Ohms per 1000'	Diameter in mils 1000th in.	Maximum Length for Field	Maximum Length for System	Maximum Length for Field	Maximum Length for System	Number of Conductors 2	Number of Conductors 4	Gauge A.W.G.
000	0.063	0.073	410	1571	131	1356	113	1.5"	2"	000
00	0.079	0.092	365	1253	104	1076	90	1.25"	2"	00
0	0.1	0.116	325	990	82	853	71	1.25"	1.5"	0
1	0.126	0.146	289	785	65	678	56	1.25"	1.5"	1
2	0.159	0.184	258	622	52	538	45	1"	1.25"	2
4	0.253	0.292	204	391	33	339	28	0.75"	1"	4
6	0.403	0.465	162	246	20	213	18	0.5"	0.75"	6
8	0.641	0.739	128	154	13	134	11	0.5"	0.75"	8
10	1.02	1.18	102	97	8	84	7	0.5"/6	0.5"/6	10
12	1.62	1.87	97	61	5	53	4	0.5"/9	0.5"/9	12

NOTE: All dimensions for length are in feet (1' = 0.3048 m). Length is for a cable of two conductors (positive and negative). Refer to NEC and local building codes for conduit type, installation and grounding. Wire conductor type: THHN, THWN or THWN-2. Based on 1.5% DC voltage drop.



Sun Tie™ (ST)

Solar Electric Inverter

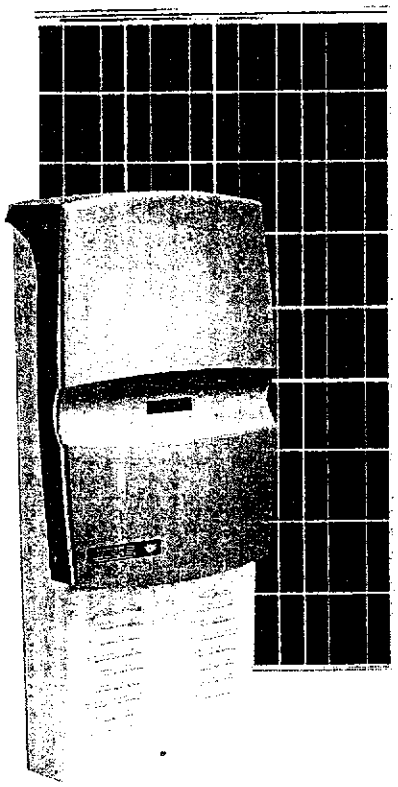
Connecting The Sun To Your Utility Meter

Trace Engineering's new Sun Tie (ST) solar electric inverters are designed, built and priced to make the benefits of site-generated PV power easy for anyone to attain. The Sun Tie operates interactively with the utility, without the use of batteries. Made specifically for new, small-scale, independent power producers, the ST is a perfect choice for anyone interested in participating in the emerging Green Power market. The ST is available in four models with output capacity of 1.0, 1.5, 2.0 and 2.5 kVA.

Distributed generation, using the power of the sun, is a win - win choice for the environment, utility companies and consumers alike. With this form of electrical distribution, solar PV power is generated and inverted at the location where it's used. Solar electricity helps reduce the need for new large-scale–and often environmentally harmful–generating stations and distribution lines.

Consumers can have lower electricity bills because any PV power they generate is either used in their home or business or, when there is excess, sold to the utility company. "Net Metering" is one way electricity is exchanged between the power grid and solar generators. Net Metering programs are available from many utility companies, contact your local electricity provider for details.

Utilities benefit from increased solar generation by gaining the ability to resell the PV power they purchase to environmentally conscious customers at premium Green Power rates. Consumer generated, solar electricity can also help utility companies meet their growth requirements at lower capital costs.



ST Series Inverter*

Introducing the Sun Tie

All-in-One Design

All NEC (U.S. National Electrical Code) required DC input and AC output connections, disconnects and circuit breakers are housed within the Sun Tie's compact case. A built in LCD panel provides easy-to-read system status and daily cumulative power production information.

Works With Any Type of PV Technology

The ST is designed to optimize the output from all types of solar electric technologies. The open circuit voltage window of the Sun Tie ranges up to 125 VDC so both conventional Crystalline and newer Thin Film PV modules can be used.

Maximum Power Point Tracking

The Sun Tie uses sophisticated software to track and adjust the output of the PV array. Our Maximum Power Point Tracking (MPPT) software, which samples once a minute, ensures complete harvest of the sun's energy all day long.

Expandable

Multiple ST inverters can be connected to a utility grid so that additional generating capacity may be added in a fully modular manner.

High Efficiency, Long Life Design

The high frequency, solid state design of the ST inverter is extremely efficient. The inverter efficiency is over 90%, with peak efficiencies of 94%. Built and designed in the U.S.A. by Trace Engineering, makers of the worlds most reliable inverters, the Sun Tie is sure to provide many years of trouble free service and carries a two year warranty.

* Sun Tie is shown with optional protective rain shield which is for outdoor installation of the inverter.

Standard Features:

Sun Tie–Utility interactive inverter, 240 VAC 60 Hz output. Includes factory installed DC and AC input/output breakers, combination DC and AC lightning arrestor.

Options:

STRS–Protective rain shield, required for out door installation of ST Series inverters

Certifications:

UL Listed–The Sun Tie is UL Listed to UL 1741 and cUL Listed to CSA 22.2 No. 107.1-95. The ST is designed to comply with IEEE 929.

Note:

ST1000 and **ST2000** models do not include PV ground fault interrupters and PV combiner boards. Trace offers a PV ground fault interrupter **(PVGFP)** which requires an enclosure (not included) and a UL Listed 10 circuit combiner box **(TCB10)**. Both of these items can be ordered separately.

Sun Tie

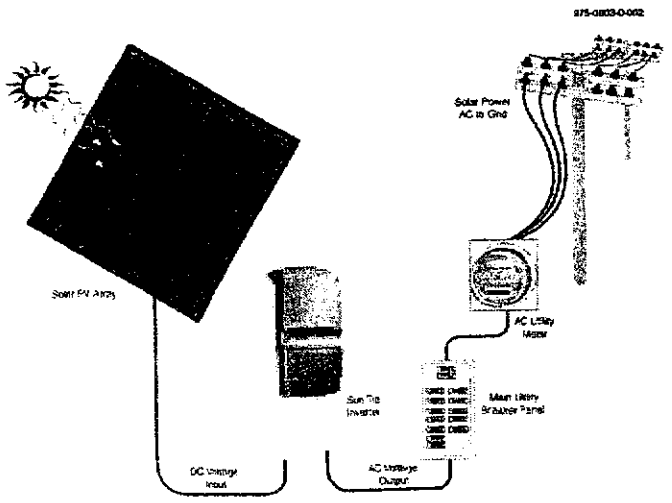
UTILITY INTERACTIVE SOLAR ELECTRIC INVERTER

LISTED UL1741

MODEL	ST1000	ST1500	ST2000	ST2500
AC voltage–nominal	240 VAC			
Maximum power point tracking voltage range	42–85 VDC			
Minimum input DC voltage (for full rated AC output)	52 VDC (typically, four nominal 12 VDC PV modules, in series)			
Minimum wake-up DC input voltage	50 VDC			
Absolute Maximum PV open circuit voltage	125 VDC			
AC voltage–min/max	211–254 VAC			
AC output characteristics	Current source			
Nominal frequency	60 Hz			
Frequency window–min/max	59.5/60.5 Hz Default			
Continuous AC output @ 25 °C	1.0 kVA	1.5 kVA	2.0 kVA	2.5 kVA
Efficiency–peak	92%		94%	
AC output waveform	Sine wave, high frequency PWM controlled			
Total harmonic distortion	Less than 5% at rated power per IEEE 929 and UL 1741			
AC disconnect	Double-pole 15 amp, 240 VAC branch circuited rated breaker			
DC disconnect	Single-pole 100 amp DC rated circuit breaker			
Islanding protection	Over/under AC voltage and frequency detection plus active islanding detection–meets IEEE 929 and UL 1741 requirements			
User display	Backlight alphanumeric LCD display–AC amps, AC volts$_{rms}$, DC volts, AC frequency, output power (W) and (Wh) produced			
Specified temperature range	-38–113 °F (-39–45 °C)			
Enclosure Type	Outdoor, rainproof, powder coated aluminum enclosure, fully screened			
Dimensions (inverter only)	13.25" W x 33.25" H x 5.3" D (33.8 cm W x 83.1 cm H x 13.25 cm D)			
Dimensions (shipping)	15.75" W x 37.75" H x 9.5" D (39.4 cm W x 94.4 cm H x 23.8 cm D)			
Weight (inverter only)	35 lb. (15.9 kg)			
Weight (shipping)	40 lb. (18 kg)			
Mounting	Vertical wall mount only			
Listings	UL listed to UL1741, 1st edition and cUL listed to CSA C22.2 No. 107.1-95			
STANDARD FEATURES AND OPTIONS				
PV ground and fault protection system	–	Standard	–	Standard
PV combiner board with 6 fused inputs. 20 amps maximum per input	–	Standard	–	Standard
Surge arrestor–Combined AC/DC protection	Standard	Standard	Standard	Standard
Rain Shield (STRS) Protective rain shield (required for outdoor installation)	Optional	Optional	Optional	Optional

Specifications subject to change without notice.
Specifications @ 25 °C.

THE APPROVAL OF ALL ELECTRICAL WORK IS SUBJECT TO FIELD INSPECTIONS.



The Sun Tie connects all the elements of a utility interactive solar electric system together.

Available From:

TRAY CABLE

THHN INSULATION - PVC JACKET
600 VOLT - 90 C - TYPE VNTC

Vinyl nylon tray cable was developed in the late 1970's with the goal of low cost, small outside diameter, and flame retardance. It can be used as power and control cable with a multitude of applications. The most common application is for use in cable trays and raceways, but tray cable is also direct burial rated and sunlight resistant. VNTC can also be lashed to a messenger for use aerially.

Vinyl nylon tray cable has THHN or TFFN inner conductors and a polyvinylchloride jacket overall. The PVC jacket can be rated to pass the IEEE Flame Test at 70,000 BTU or 210,000 BTU depending upon requirements.

Available in the following color codes: (See page 70 for specific color code charts)
- -Method 1 (K1)
- -Method 1 (K2)
- -Method 4

THE APPROVAL OF ALL ELECTRICAL WORK IS SUBJECT TO FIELD INSPECTIONS.

APPROVALS

- UL Listed Type TC per UL 1277.
- Passes IEEE Flame Test at 70,000 BTU (also available rated at 210,000 BTU)
- NEC Article 318 for tray installation.
- NEC Article 340 for cable construction.
- Direct Burial Rated
- Sunlight Resistant
- Temperature Rated 75 C for Wet Locations, 90 C for Dry Locations

* The specification sheets that follow should be used as a guide to the most common stock constructions for each gauge size. Omni Cable has the technical expertise and manufacturing capabilities to satisfy virtually any requirement or construction. Omni Cable's unique ability in specialty cable is unmatched in the wire and cable industry.

TYPE VNTC - THHN INSULATION PVC JACKET - 90 C - 600 VOLT

TRAY CABLE

600 VOLT - 90 C DRY - 75 C WET - DIRECT BURIAL RATED

CONSTRUCTION

Conductor: Stranded bare copper Class B per UL 83.

Insulation: Extruded polyvinylchloride to UL requirements for Class THHN and THW insulation, which with nylon jacket is approved for Type THHN and THWN wires per UL 83.

Assembly: The conductors are cabled with fillers where needed to make a round compact core and a suitable tape is applied over the construction.

Conductor Identification: Individual conductors are color coded per Method 1 (K-2) with surface print.

Jacket: Black sunlight resistant, flame retardant polyvinylchloride per UL 1277 requirements for Type TC power and control cables.

APPLICATIONS

- Control circuits for operation and interconnection of protective and signaling devices, and for general use in manufacturing, industrial and commercial distribution systems.
- U.L. listed and labeled for installation in ladders, trough, channels, solid bottom trays and other similar structures (NEC Articles 318 and 340), and in duct, conduit, wireways and all other installations approved for building wire.
- In hazardous locations per NEC Articles 500 and 501. May be used in wet or dry locations, sunlight resistant, and suitable for direct burial.

STANDARDS

- Temperature Rating 75 C Wet Locations, 90 C Dry Locations.
- U.L. Listed Type TC Cable per UL 1277.
- Passes IEEE Flame Test at 70,000 BTU
- NEC Article 318 for tray installation.
- NEC Article 340 for cable construction.

Part #	AWG Size	No. of Cond.	Nom. Insul. Thickness	Nylon Thickness	Nom. Jacket Thickness	Nom. O.D.	Lbs./M
A11002F	10	2	.015"	.004"	.045"	.280" X .430"	118
A11002	10	2	.015"	.004"	.045"	.435"	120
A11003	10	3	.015"	.004"	.045"	.460"	165
A11004	10	4	.015"	.004"	.045"	.535"	210
A11005	10	5	.015"	.004"	.060"	.590"	270
A11007	10	7	.015"	.004"	.060"	.655"	355
A11009	10	9	.015"	.004"	.060"	.735"	465
A11012	10	12	.015"	.004"	.060"	.830"	585
A11019	10	19	.015"	.004"	.060"	1.215"	1060

Part No	AWG Size	No. of Cond	Nom. Insulation Thickness	Nylon Thickness	Nom. Jacket Thickness	Nominal O.D.	Lbs./M'
A11202F(flat)	12	2	.015"	.004"	.045"	.260" x .365"	73
A11202	12	2	.015"	.004"	.045"	.385"	75
A11203	12	3	.015"	.004"	.045"	.385"	110
A11204	12	4	.015"	.004"	.045"	.421"	135
A11205	12	5	.015"	.004"	.045"	.460"	165
A11206	12	6	.015"	.004"	.045"	.505"	189
A11207	12	7	.015"	.004"	.045"	.541"	218
A11209	12	9	.015"	.004"	.045"	.610"	295
A11212	12	12	.015"	.004"	.045"	.685"	378
A11215	12	15	.015"	.004"	.045"	.765"	466
A11219	12	19	.015"	.004"	.045"	.800"	565
A11220	12	20	.015"	.004"	.045"	.895"	412
A11225	12	25	.015"	.004"	.045"	1.008"	760
A11230	12	30	.015"	.004"	.045"	1.026"	935
A11237	12	37	.015"	.004"	.045"	1.108"	1089

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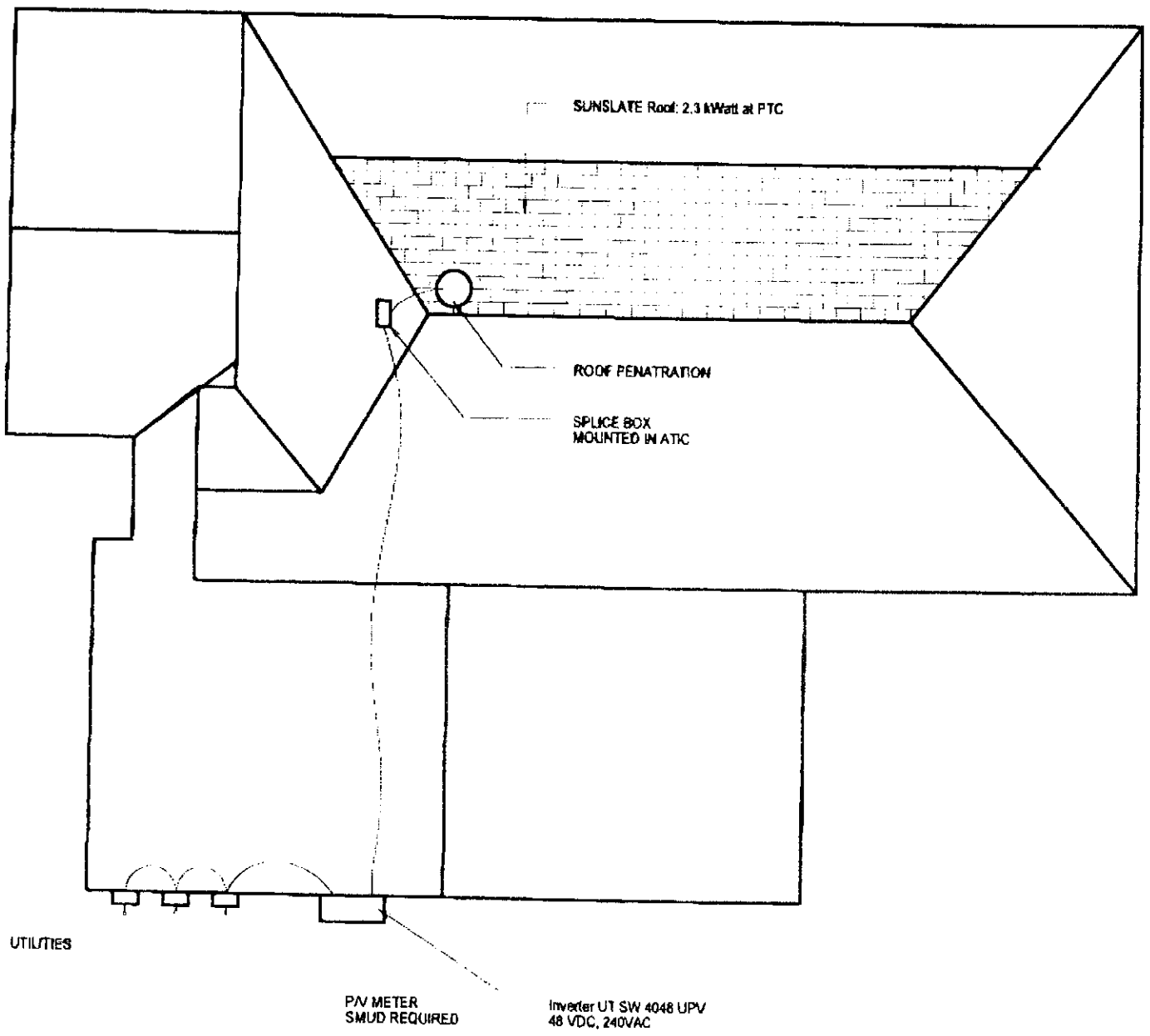
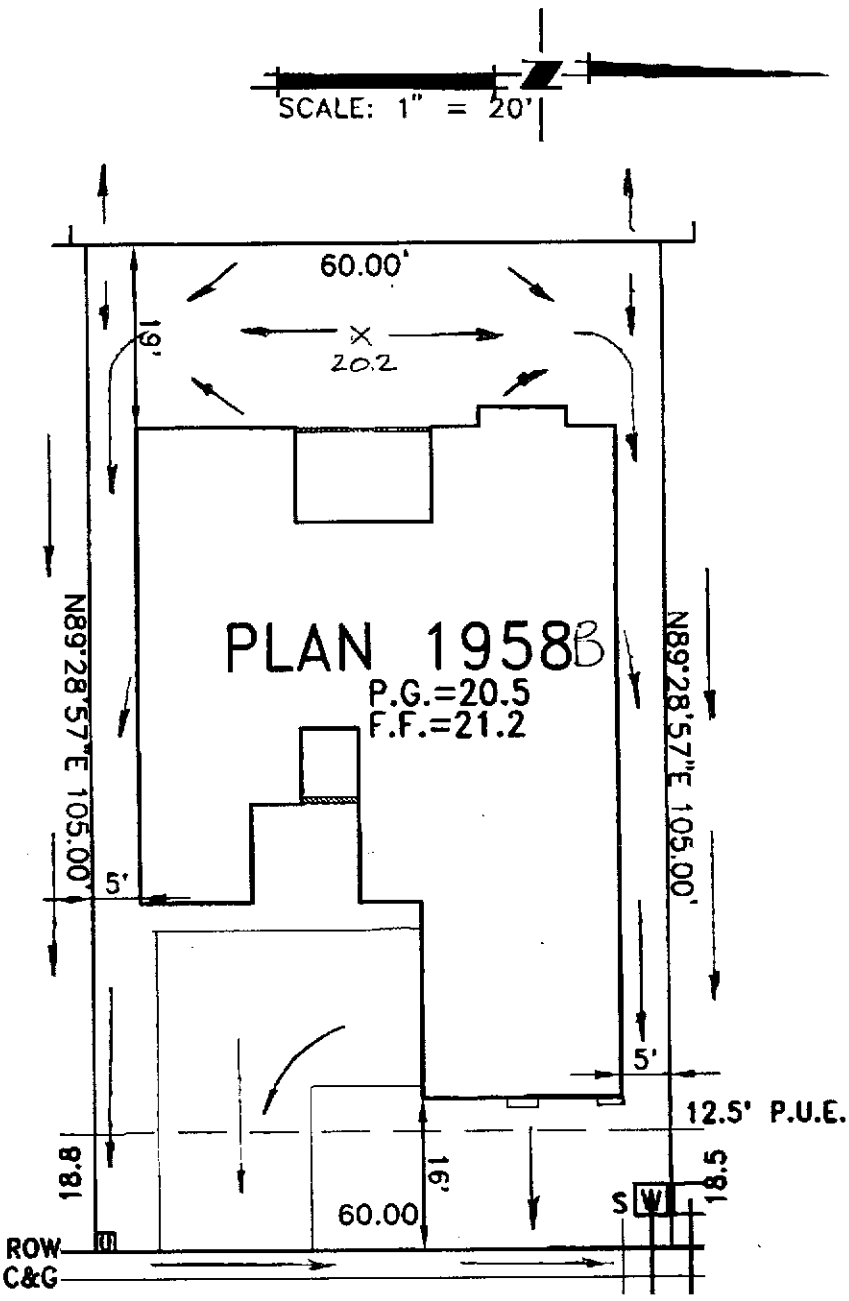
MORRISON HOMES BEL LAGO PLAN 2819B LOT#6





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APPROVED UNDER TITLE 15 CITY CODE City of ... DEPT OF PLANNING & DEVELOPMENT BUILDING INSPECTION DIVISION

W = UTILITY BOX

LOT COVERAGE 43.4%

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WESTBOROUGH VILLAGE 6

LOT 53
PLAN 1958B-L 6/11/01

CITY OF SACRAMENTO, CALIFORNIA

APR. 2001	DRAWN:HMB	CHECKED: JC	1122.028