CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

Site Address: 8568 CULPEPPER DR SAC

Parcel No:

117-1070-051

Sub-Type: NOTHR

0014867

2

Housing (Y/N): N

CONTRACTOR

OWNER BRASIL ANTONIO R JR 8568 CULPEPPER DR SACRAMENTO CA 95823 **ARCHITECT**

Permit No:

Insp Area:

Nature of Work: FINISH 898 SF(AS LVNG AREA) OF EXISTING BASEMENT ORIGINALY DESIGNED FOR LIVING QUARTERS & SHOP AREA. 407 SF TO REMAIN UNFINISHED AS SHOP AND STORAGE AREAS(UNCONDITIONED, NON HABITABLE). NO BEARING WALLS MOVED

CONSTRUCTION LENDING AGENC of the work for which this permit is issued (Se	CY: Thereby affirm under penalty of perjury that there is a construction lending agency for ec. 3097, Civ. C)	the performance
Lender's Name	i ender'sAddress	
commencing with section 7000) of Division.	ARATION: I hereby affirm under penalty of perjury that I am licensed under provision of the Business and Professions Code and my license is in full force and effect.	
Ficense Class Ficense Number	Date Contractor Signature	
OWNER-BUILDER DECLARATION following reason (Sec 7031.5. Business and any structure, prior to its issuance, also required the Contractors License i aw (Chapter 9.)	It: I hereby affirm under penalty of perjury that I am exempt from the contractors Lice Professions Code; any city or county which requires a permit to construct, alter, improve, does the applicant for such permit to file a signed statement that he or she is licensed pursuant commencing with Section 7000) of Division 8 of the Business and Professions Code) or dexemption. Any violation of Section 7031.5 by any applicant for a permit subjects the ap	mse Law for the emolish, orrepair to the provisions that he or she is
for sale (Sec. 7044, Business and Profession thereon and who does such work himself or	imployees with wages as their sole compensation, will do the work, and the structure is not intended to the Contractors License Law does not apply to an owner of property who but herself or through his/her own employees, provided that such improvements are not intendent is sold within the year of completion, the owner-builder will have the burden of proving the contractory.	ilds or improves led or offered foi
It as owner of the property, am exclusioned. The Contractors incense Law does no contractor(s) licensed pursuant to the Contractor	isively contracting with licensed contractors to construct the project (Sec. 7044, Business of apply to an owner of property who builds or improves the contracts for suctors License Law)	and Professions h projects with a
I am exempt under Sec	9 & PC for this reason: EIGHBORHGODS, PLANNING	
Date 3/5/01	9 & PC for this reason: Signature Swiner Signature	
IN ISSUING THIS BUILDING PERMIT, all measurements and locations shown on the or private agreement relating to permissible of	the applicant represents, and the city polics on the representation of the applicant, that the a application or accompanying drawings and that the improvement to be constructed does not reprohibited locations for such improvements. This building permit does not authorize any integratement relating to location of improvements.	ot violate any law
relating to building construction and herby au	state that all information is correct. I agree to comply with all city and county ordinance thorace representativets) of this city to enter upon the abovementioned property for inspection	es and state laws in purposes.
Vate 3/5/01	Applicant Agent Signature Tony Brade	All Carrier
WORKER'S COMPENSATION DEC	LARATION: Thereby affirm under penalty of perjury one of the following declarations: f consent to self-insure for workers' compensation as provided for by Section 3700 of the La	bor Code, forthe
	inpensation insurance, as required by Section 3700 of the Labor Code, for the performance opensation insurance carrier and policy number are:	of the work for
Carrier Exempt	Policy Number Exp Date	
(This section need not be completed it shall not employ any person in any manner	the permit is for \$100 or less). I certify that in the performance of the work for which this pso as to become subject to the workers' compensation laws of California and agree that if ms of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.	permit is issued, I I should become

COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.

CO1 4867R,

Date of Request:	
By:	

CITY OF SACRAMENTO DEVELOPMENT SERVICES DIVISION PLANNING AND ZONING INFORMATION REQUEST

Pi	roject Address: 8568 Culpepper Dr
A	Assessor's Parcel Number: 117-1070-051
	revious Use: SF Resid
D	Description of Request/Proposed Use: frieshing basement into home Office, Entertainment Noom, worlshop, store
	home Office Entertainment Room worlshop, Ane
- 	10 -1 \- #l
	·
Is	s This a Change of Use?
	Zoning Designation: P7
Pı	rior Applications for Project Site(P#, Z#, DRPB#):
C	Comments:
_	
_	
	Are There Any Planning Issues?: (circle one) YES NO
*	Start Site Fran Check Required: (Check One)
*	ried hispection required: (Circle one)
*	Design Review/Preservation Required?: (Circle one) YES (NO)
	Planning Review by/Date: 6.15-06
	CONFIRMED; PHIL REED 1/16/01
	A list of items that must be reviewed by Planning is provided on the reverse side of this form.

MICROFILM AFTER FINAL

OWNER-BUILDER VERIFICATION

ATTENTION PROPERTY OWNERS

An owner-builder building permit has been applied for in your name and bearing your signature.

Please complete and return this information in the envelope provided at your earliest opportunity to avoid unnecessary delay in processing and issuing your building permit. No building permit will be issued until this verification is received.

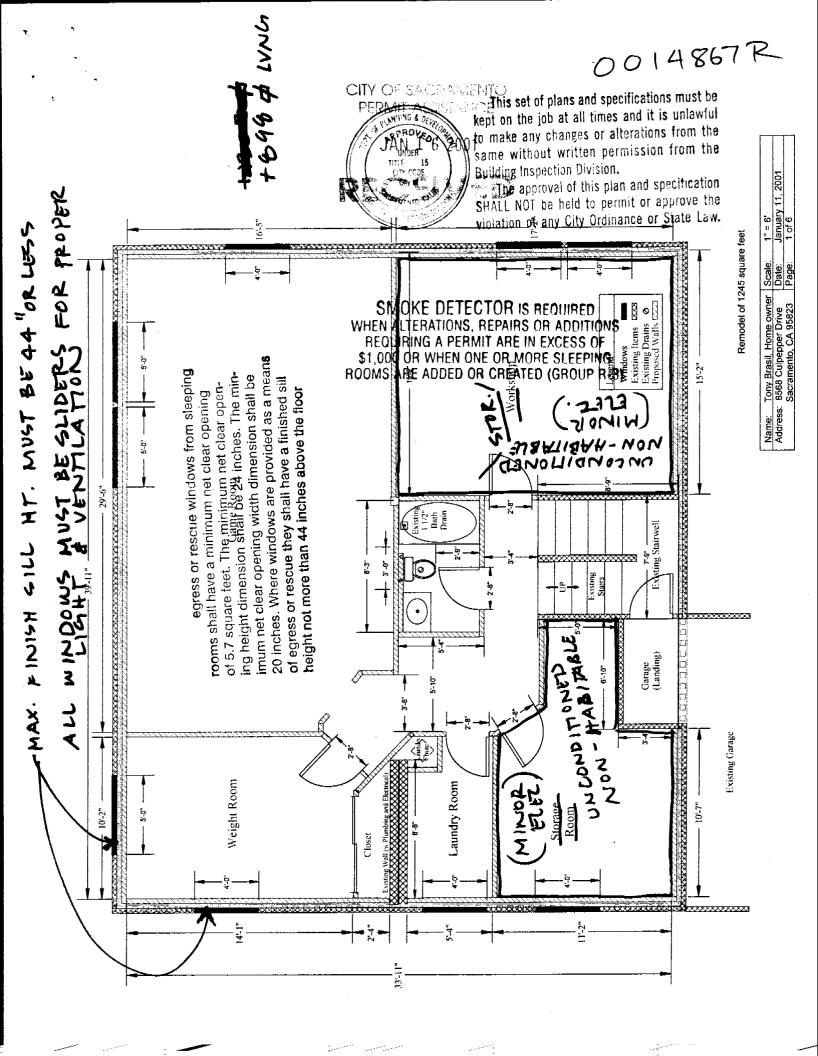
1.	I personally plan Improvement (ye	to provide the major laboes or no)	r and materials for co	onstruction of the proposed
2.	I (have/have not)			signed an application for
3.	I have contracted	d with the following perso	n (firm) to provide t	he proposed construction:
	Name		_Address	
	City		Telephone	
	Contractors Lie	cense No.		
4.		portions of the work, but rovide the major work.	I have hired the foll	owing person to coordinate,
	Name		Address	
	City		Telephone	
	Contractors Lic	ense No		
5.	I will provide so Work indicated:	me of the work but I have	contracted (hired) t	he following to provide the
	Name	Address	Phone	Type of work
∕\$i∗	gned Jon	na Bras /		•
		568 Culpelper	De	x Date 3/5/
	ermit No:	20 X 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		7/
ϵ	rmit No:			

Certification of Compliance School District Development Fees

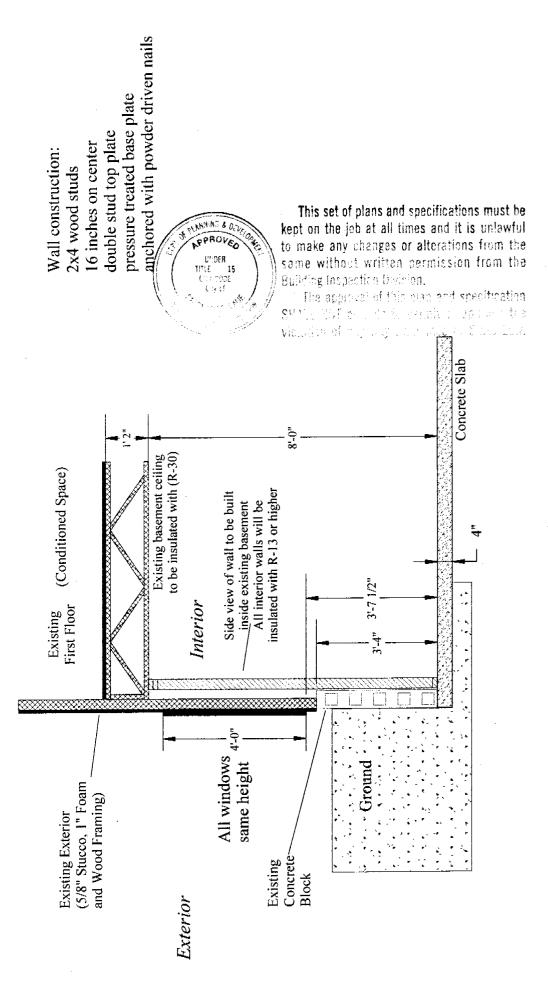
(Print or Type) If Printing, press hard for four copies
PART I To be completed by the APPLICANT
OWNER'S NAME TONY & BORSIL, JO
OWNER'S ADDRESS 3563 Culpepper Dr.
PROJECT ADDRESS 8568 CONFORM DY
PARCEL NUMBER 117-1670-651 // (Irlio), LOT NO. 93
SUBDIVISION NAME
NUMBER OF UNITS
Upon payment of the fees listed below, a 90-day approval period commences upon which the applicant paying the fees may protest such fees. Any failure to file such protest within the 90-day period shall result in forfeiture of any rights to challenge such fees, through litigation or otherwise.
APPLICANT'S SIGNATURE 1000
TITLE OF APPLICANT
DATE 3/6/51 PHONE NUMBER (1/4) 421-1753
PART II To be completed by BUILDING DEPARTMENT
PLAN IDENTIFICATION NUMBER 0014867[2
FLAN IDENTIFICATION NOMBER
BUILDING TYPE RESIDENTIAL () APARTMENT/CONDOMINIUM () COMMERCIAL/INDUSTRIAL ()
BUILDING TYPE Holdelian
BUILDING TYPE RESIDENTIAL () APARTMENT/CONDOMINIUM () COMMERCIAL/INDUSTRIAL ()
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BUILDING TYPE RESIDENTIAL () APARTMENT/CONDOMINIUM () COMMERCIAL/INDUSTRIAL () SQUARE FEET OF CHARGEABLE BUILDING AREA SIGNATURE TITLE Bodg has becompleted by SCHOOL DISTRICT SCHOOL DISTRICT CERTIFICATION NO. 17,77 EXEMPT COMMENTS RESIDENTIAL/APT/CONDO SQ FT X \$ = \$ / 340.70 COMMERCIAL/INDUSTRIAL SQ FT X \$ = \$ OTHER FEET TYPE SQ FT X \$ = \$
BUILDING TYPE RESIDENTIAL APARTMENT/CONDOMINIUM () COMMERCIAL/INDUSTRIAL () SQUARE FEET OF CHARGEABLE BUILDING AREA SIGNATURE TITLE Bodg DATE TO be completed by SCHOOL DISTRICT SCHOOL DISTRICT DISTRICT CERTIFICATION NO. EXEMPT COMMENTS RESIDENTIAL/APT/CONDO SQ FT X \$ = \$ / 340.74 COMMERCIAL/INDUSTRIAL SQ FT X \$ = \$
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TITLE DATE

Original: School District 1st copy: School District 2nd copy: Building Department 3rd copy: Applicant Ap



Cutaway view of basement walls



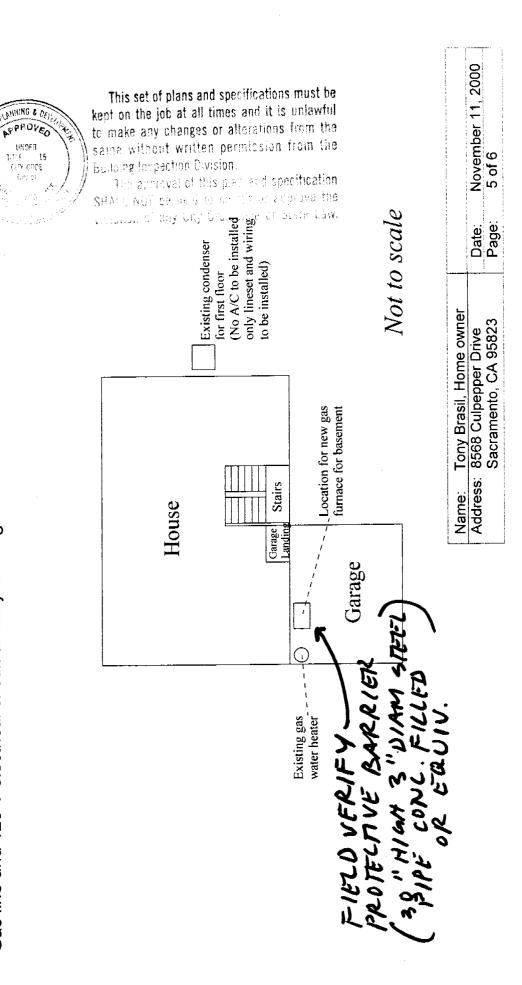
Name	Tony Brasil, Home owner	Scale:	3/8" = 1'
Address:	8568 Culpepper Drive	Date:	January 11, 2001
	Sacramento, CA 95823	Page:	2 of 6

HVAC System

Only 8/3 wiring and lineset for basement A/C to be installed for possible future use. A/C will not be installed.

Separate 75,000 Btu to be added (1200 CFM; 80% efficiency) 4 inch vent to be added

Furnace to be installed in garage. Gas line and 120 V electrical circuit already existing



CERTIFICATE OF COMPLIANCE: RESIDENTIAL (Page 1 of 2)

FINISH BASEMENT		1/11/01
Project Title 8568 CHAPEPPER DR		Date /
Project Address 100V BRASIL	421-1753	Building Permit #
Documentation Author Computer	Telephone	Plan Check / Date Field Check / Date
Compliance Method (Package or Computer)	Climate Zone	Enforcement Agency Use Only

GENERAL INFORMATION

Total Conditioned Floor . Conditioned Slab F		ft²	Average Cei	ling Height: 8 ft
Building Type:	Single Family	Addition		This set of plans and specifications must be
(check one or more)	Multi-Family	Existing-I	Plus Additionke	of on the job at all times and it is unlawful
Front Orientation:	North/ Sout	h / Fast / West / Al	L Openwaions	make any changes or alterations from the rand without written permission from the
Number of Stories 2 Number of Dwelling Unit	s:	1		idding Inspection Division. The operaval of this plan and specification
Floor Construction Type:	Slab/Raised Floor	(circle one or both)	さるタ/ St	in't NOT he held to paper or encrave the
		The same of the sa	۷۰۰ استنستنسانید.	Section of any City Oremance or become two

BUILDING SHELL INSULATION

Component	Frame Type	Cavity	Sheathing	Total R-	Assembly	Location/Comments
Type	wd = wood	Insulation	Insulation	Value ^I	U-Value ¹	(attic, garage, typical, etc.)
	stl = steel	R-Value	R-Value			
Wall	WD	13	Ø	11.36	. 0 88	OUTSIDE - MIPER HALF OF WALL
Wall	CONTRETE BLOCK	0	Ø	1,19	.843	BELOW GRADE
Roof	N/A					CONDITIONED
Roof	,					
Floor	CONCRETE	0	0	1.38	. 722	GRADE
Floor						
Slab Edge		Ø	0	0	156	OUTSIDE

FENESTRATION Shading Devices

LLILLDIN	****						- 5
Fenestration #/Type/Pos.	Orien- tation	Area (ft²)	Fenestration U-Value	Fenestration SHGC	Interior Shading Att. ²	Exterior Shading Att.	Overhangs /Fins
Front	NORTH	0			Standard		
Front					Standard		•
Left	EAST	48	0.67	0.765	Standard	Bug Sten	NONE
Left					Standard	,	
Rear	SOUTH	60	0.87	0.765	Standard	BUG SCKN	NONE
Rear			- •		Standard		
Right	WEST	48	0.81	Ø.765	Standard	BUE SCRN	NONE
Right				·	Standard		
Skylight		N/A			Standard		NONE
Skylight		,			Standard		

¹ For prescriptive compliance, Total R-Value and Assembly U-Value are not required for a wood-framed wall that meets cavity R-value insulation requirement for the Prescriptive Package.

² For prescriptive compliance, there are no credits for any interior shading except the default or "Standard" drapery. These default interior shading devices (draperies) need not be installed for compliance purposes.

8568 CULPE	PPER DR -	FINISH	BASEMER	71	i/	11/01	
Project Title					Date	,	
HVAC SYSTEMS		W. W. O.	_				
Note: Input hydronic or combine	ed hydronic data under	Water Heating Sys Distribut		ign Heating Load			
Heating Equipment	Minimum	Type a	nd	Duct or		Heat	Pump
Type (furnace, heat	Efficiency	Locatio		Piping	Thermostat	Config	
pump, etc.)	(AFUE or HSPF)	(ducts, attic		R-Value	Туре	(split or	oackage)
FURNACE	78 <i>‰</i>	Ducts (C	CAMITIONS SIMCE)	4.2	SETBACK		•••
Cooling Equipment	Minimum	Duc				Uest 1	Dumm
Type (air conditioner,	Efficiency	Locat		Duct	Thermostat	Heat I Config	
heat pump, evap. cooling)	(SEER)	(attic, e		R-Value	Туре	(split or p	
AIR CONDITION	10	(سالانارور	ven siace)	4.7	SETSACK	Spirt	
	<u> </u>						
WATER HEATING	SYSTEMS						
					Energy ¹		Externa
			Rated	Tank	Factor or		Tank
Water Heater	Distribution	Number	Input (kW	Capacity	Recovery	Standby ¹	Insulatio
Туре	Type	in System	or Btu/hr)	(gallons)	Efficiency	Loss (%)	R-Value
· · · · · · · · · · · · · · · · · · ·	water heaters (rated i	nput of greater than	75,000 Btu/hr),), electric resistano	te, and heat pump w	ater heaters, list and Standby Los	Energy ss.
For small gas storage water Factor. For large gas storage For instantaneous gas water SPECIAL FEATUR Including Thermal Marchael Special Specia	heaters (rated inputs of the water heaters (rated in heaters, list rated input the stand MOD Mass (thermal mass)	f less than or equal input of greater than and recovery efficients that the property of the pr	to 75,000 Btu/hr), encies. SUMPTIO), electric resistance list Rated Input, R NS (Add e.g., and descript	ee, and heat pump weecovery Efficiency	and Standby Los	Energy ss.
For small gas storage water Factor. For large gas storage for instantaneous gas water	heaters (rated inputs of the water heaters (rated input heaters, list rated input the stand mass (thermal mass (thermal mass stallow & &	f less than or equal input of greater than and recovery efficients that the property of the pr	to 75,000 Btu/hr), encies. SUMPTIO	o, electric resistanc list Rated Input, R	ee, and heat pump weecovery Efficiency	and Standby Los	Energy ss.
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(signature / stamp)

COMPUTER METHOD SUN		=	C-2F	
Project Title: Project Address:				10-Jan-01
Building Title: Document Author:		tion	Building	Permit #
Telephone:	touà prazit		Plan Check	k / Date
Compliance Method: Climate Zone:			Field Chec	ck / Date
ENERGY USE SUMMARY Energy Use St		Proposed Design		
Space Heating	21.37	33.24		
Space Cooling		1.77		
	15.76	0	Complies	
Water Heating			COMPLIAS	

Conditioned Floor Area:	1400 ft2
Average Ceiling Height:	8'0" ft-in
Building Type:	SFD Single Family Detached
Building Front Orientation:	0 deg (North)
Glazing Area, % of Floor Area:	10.4%

Average Fenestration U-Value: 0.87
Average Fenestration SHGC: 0.74
Number of Dwelling Units: 1.90
Number of Stories: 2

Floor Construction Type: Slab on grade
Number of Conditioned Zones: 1
Total Conditioned Volume: 11200 ft3

Ground Floor Area:

This set 11200 ft3 kent on the to make a 1500 ft2.

This set of plans and specifications point on kept on the job at all times and it is to award to make any map has been all the same and it is to award the make any map has been as a map in a company of the same and the same an

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and the second s

BUILDING ZONE	INFORMAT	ION			
	Floor		*		Vent
Zone	Area	Volume		Thermostat	Height
Name	(ft2)	(ft3)	Type	Туре	(ft)
HOUSE	1400	11200	Conditioned	CEC Standard	8'0"
	1100		001141 01104		

OPAQUE SURFACES

Surface Type	Area (ft2)	U- value 						Construction Type	Location/Comments
Zone = HOUS	E								
Door	20.0	0.330	0	3	0	90	Yes	30-Wood	Outside
Wall	116.0	0.088	13	11	ð	90	Yes	W13.2x4.1€	Outside
Wall	68.0	0.843	0	1	0	90	No	Basement	Shallow ground
Wall	68.0	0.843	0	1	0	90	No	Basement	Medium ground
Wall	112.0	0.088	13	11	90	90	Yes	W13.2x4.16	Outside

Project Title: 8568 Culpepper Drive

Run: 002 10-Jan-01

OPAQUE SURFACES continued

Surface Type	Area (ft2)	-		Total Rval		Tlt		Construction Type	Location/Comments
Wall	80.0	0.843	0	1	90	90	No	Basement	Shallow ground
Wall	80.0	0.843	0	1	90	90	No	Basement	Medium ground
Wall	76.0	0.088	13	11	180	90	Yes	W13.2x4.16	Outside
Wall	68.0	0.843	0	1	180	90	No	Basement	Shallow ground
Wall	68.0	0.843	0	1	180	90	No	Basement	Medium ground
Wall	112.0	0.088	13	11	270	90	Yes	W13.2x4.16	Outside
Wall	80.0	0.843	0	1	270	90	No	Basement	Shallow ground
Wall	80.0	0.843	0	1	270	90	No	Basement	Medium ground
Floor	1500.0		0			180	No	Slab140E	Grade

PERIMETER LOSSES

Perimeter Type	Length (ft)	F2 Factor	Insul R-val	Insul Depth (in)	Location/Comments
Zone = HOUSE Exposed	148'0"	0.756	0	16	Outside

FENESTRATION SURFACES

Fenestration Name	Type	Area		Tlt	Open Type	Frame Type	Glazing Charactr Name	Comments
Zone = HOUSE								
EAST	Wind	16.0	90	90	Slider	Metal	Double	
east-2	Wind	16.0	90	90	Slider	Metal	Double	
east-3	Wind	16.0	90	90	Slider	Metal	Double	
SOUTH	Wind	20.0	180	90	Slider	Metal	DOWN Set of plan	e and specifications must be
south-2	Wind	20.0	180	90	Slider	Metal	Double in a	t at times and it is uplant i
south-3	Wind	20.0	180	90		Metal	Double	nges or attendions from 1 d
WEST	Wind	16.0	270	90	Slider	Metal \	'Double	and the common terms of the common of the co
west-2	Wind	16.0	270	90	\$1i/der	Metal	ිDර්ගීblie	ncien permission from Lb
west-3	Wind	16.0	270	90	Slider	Metal/	Double	polye i 1944.
						11 st. l. #	The a wi	of this plan and specification is
							(象)性人格等于4.	nia yn jerryf oa boalaet fill i
GLAZING CHARAC	TERIST	FICS			15 P. E.		Victorial Charles	Cay organizate of Chara Cay

GLAZING CHARACTERISTICS

Glazing					Interior	SHGC	·	SHGC
Charactr	Glazing	# of	U-		Shade Type	Int	Exterior	Ξxt
Name	Type	Panes	value	SHGC	See notes	Shade	Shade Type	Shade
								
Double	Clear	2	0.870	0.765	Standard	0.680	BugScrn	0.757

COMPUTER METHOD SUMMARY Page 3 C-2R Project Title: 8568 Culpepper Drive Run: 002 10-Jan-01 **OVERHANGS** Fenestration Above Left Right Name Height Width Depth Glazing Extension Extension None FINS Left Fin Right Fin Exten Dist Exten Dist Fenestration ----- Fin Fin above to Fin Fin above to Name Height Width Depth Height glzng glzing Depth Height glzng glzing None THERMAL MASS Vol Cond-Area Thck Heat duct- Construction Insd Mass Name (ft2) (in) Cap ivity Type Rval Location/Comments Zone = HOUSE 68.0 4.0 28 0.98 Basement 0 Shallow ground 68.0 4.0 28 0.98 Basement 0 Medium ground 80.0 4.0 28 0.98 Basement 0 Shallow ground 80.0 4.0 28 0.98 Basement 0 Medium ground 68.0 4.0 28 0.98 Basement 0 Shallow ground 68.0 4.0 28 0.98 Basement 0 Shallow ground 68.0 4.0 28 0.98 Basement 0 Medium ground 80.0 4.0 28 0.98 Basement 0 Shallow ground 80.0 4.0 28 0.98 Basement 0 Medium ground e1 e2 nl n2 w1 w2 s1 s2 SOLAR GAIN DISTRIBUTION Fenestration Winter Summer Targetted Name Fraction Fraction Thermal Mass Comments None

HVAC SYSTEMS

System Name	System Type	Efficiency	Duct Location and R-value		
Zone = HOUSE GasFurn.78 ACsplit10	Furnace Air cond central split		Attic R-4.2 Attic R-4.2		

Project Title: 8568 Culpepper Drive

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WATER HEATING SYSTEMS

	Distrib	Water	Water	# of	Energy	Volume
System Name	Type	Heater Name	Heater Type	Htrs	Factor	(gal)
Standard_Gas	Standard	StandardGas	Storage gas	20	0.52	50

WATER HEATING SYSTEMS MISC

Svstem Name	Solar savings	Solar system		Wood stove boiler pump?
			DOTTET:	porter bamb:
Standard Gas			No	No

WATER HEATER/BOILER DETAILS

			Rated			Pilot
Water	Recovery		Input	Standby	Tank	Light
Heater Name	Efficiency	AFUE	(kBtuh)	Loss	R-value	(Btuh)
StandardGas	76%		36.00			

HYDRONIC DISTRIBUTION AND TERMINALS

			Pipe	Pipe	Insul	Insul
System/Name	Туре	Number	run (ft)	diam (in)	thck (in)	R-value
None						

SPECIAL FEATURES, REMARKS, AND NOTES

- 1. Standard interior shades are assumed to be drapes which need not be installed at the time of inspection. All other interior shading devices must be installed for inspection.
- 2. Heating duct register location: Ceiling.
- 3. Cooling duct register location: Ceiling.

This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or attendious from the some wife a main open insion from the A POTENTIAL CONTROL OF A CONTRO

MANDATORY MEASURES CHECKLIST: RESIDENTIAL (Page 1 of 2) MF-1R

Note: Lowrise residential buildings subject to the Standards must contain these measures regardless of the compliance approach used. Items marked with an asterisk (*) may be superseded by more stringent compliance requirements listed on the Certificate of Compliance. When this checklist is incorporated into the permit documents, the features noted shall be considered by all parties as minimum component performance specifications for the mandatory measures whether they are shown elsewhere in the documents or on this checklist only.

Instructions: Check or initial applicable boxes when completed or enter N/A if not applicable.

DESCRIPTION	DEGLOVED	ENTER CENTER
DESCRIPTION	DESIGNER	ENFORCEMENT
Duilding Envelope Massaure		
Building Envelope Measures:		
* §150(a): Minimum R-19 ceiling insulation.	N/A	
§150(b): Loose fill insulation manufacturer's labeled R-Value.	N/A	
* §150(c): Minimum R-13 wall insulation in wood framed walls or equivalent U-value in metal frame walls (does not apply to exterior mass walls).	1	
* §150(d): Minimum R-13 raised floor insulation in framed floors.	N/A	
§150(I): Slab edge insulation - water absorption rate no greater than 0.3%, water vapor transmission rate no greater than 2.0 perm/inch.	N/A	
§118: Insulation specified or installed meets insulation quality standards. Indicate type and form.		
§116-17: Fenestration Products, Exterior Doors, and Infiltration/Exfiltration Controls		
1. Doors and windows between conditioned and unconditioned spaces designed to limit air leakage.	. 17.	
2. Fenestration products (except field-fabricated)have label with certified U-value, certified Solar Heat Gain Coefficient (SHGC), and infiltration certification.	MA	
3. Exterior doors and windows weatherstripped; all joints and penetrations caulked and sealed.		!
§150(g): Vapor barriers mandatory in Climate Zones 14 and 16 only.	NA	
§150(f): Special infiltration barrier installed to comply with § 151 meets Commission quality standards.	N/A	
§150(e): Installation of Fireplaces, Decorative Gas Appliances and Gas Logs.		
1. Masonry and factory-built fireplaces have:	plans and specifi	ations must be
a. Closeable metal or glass door kend on the	ob appartmes as circles or alter	it is unlewful
	uindokkater alter	hans from the
c. Flue damper and control	n wasan bardi. Prima (Peron.	Baur Hor tel
2. No continuous burning gas pilot lights allowed.	o a si i n diana	er counteral co
Space Conditioning, Water Heating and Plumbing System Measures:		
§110-§113: HVAC equipment, water heaters, showerheads and faucets certified by the Commission.	<i>L</i>	
§150(h): Heating and/or cooling loads calculated in accordance with ASHRAE, SMACNA or ACCA.	<u></u>	
§150(i): Setback thermostat on all applicable heating and/or cooling systems.	i i	
§150(j): Pipe and tank insulation		
 Storage gas water heaters rated with an Energy Factor less than 0.58 must be externally wrapped with insulation having an installed thermal resistance of R-12 or greater. 		
2. First 5 feet of pipes closest to water heater tank, non-recirculating systems, insulated (R-4 or greater)	.,	
3. Back-up tanks for solar system, unfired storage tanks, or other indirect hot water tanks have R-12 external insulation or R-16 combined internal/external insulation.	N/A	
4. All buried or exposed piping insulated in recirculating sections of hot water systems.		
5. Cooling system piping below 55° F insulated.		
6. Piping insulated between heating source and indirect hot water tank.		

MANDATORY MEASURES CHECKLIST: RESIDENTIAL (Page 2 of 2) MF-1R

Note: Lowrise residential buildings subject to the Standards must contain these measures regardless of the compliance approach used. Items marked with an asterisk (*) may be superseded by more stringent compliance requirements listed on the Certificate of Compliance. When this checklist is incorporated into the permit documents, the features noted shall be considered by all parties as minimum component performance specifications for the mandatory measures whether they are shown elsewhere in the documents or on this checklist only.

Instructions: Check or initial applicable boxes when completed or enter N/A if not applicable.

DESCRIPTION	DESIGNER	ENFORCEMENT
Space Conditioning, Water Heating and Plumbing System Measures: (continued)		
* §150(m): Ducts and Fans		
1. All ducts and plenums constructed, installed, insulated, fastened, and sealed to comply with the ICBO 1997 UMC sections 601 and 603; ducts insulated to a minimum installed R-4.2 or ducts enclosed entirely within conditioned space. Openings shall be sealed with mastic, tape, aerosol sealant or other duct closure system that meets the applicable requirements of UL181, UL181A, or UL181B and other applicable specified tests for longevity given in §150(m).	-	
2. Exhaust fan systems have back draft or automatic dampers.		
 Gravity ventilating systems serving conditioned space have either automatic or readily accessible, manually operated dampers. 		
§114: Pool and Spa Heating Systems and Equipment.		
1. System is certified with 78% thermal efficiency, on-off switch, weatherproof operating		
instructions, no electric resistance heating and no pilot light.	.,	
2. System is installed with:	N/A	
a. At least 36" of pipe between filter and heater for future solar heating.	,	
b. Cover for outdoor pools or outdoor spas.		
3. Pool system has directional inlets and a circulation pump time switch.		
§115: Gas fired central furnaces, pool heaters, spa heaters or household cooking appliances have no continuously burning pilot light. (Exception: Non-electrical cooking appliances with pilot < 150 Btu/hr)	1	
Lighting Measures:		
§150(k)1.: Luminaires for general lighting in kitchens shall have lamps with an efficacy of 40 lumens/watt or greater for general lighting in kitchens. This general lighting shall be controlled by a switch on a readily accessible lighting control panel at an entrance to the kitchen.	N/A	
§150(k)2.: Rooms with a shower or bathtub must either have at least one luminaire with lamps with an efficacy of 40 lumens/watt or greater switched at the entrance to the room or one of the alternatives to this requirement allowed in §150(k)2.; and recessed ceiling fixtures are IC (insulation cover) approved.	1	



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