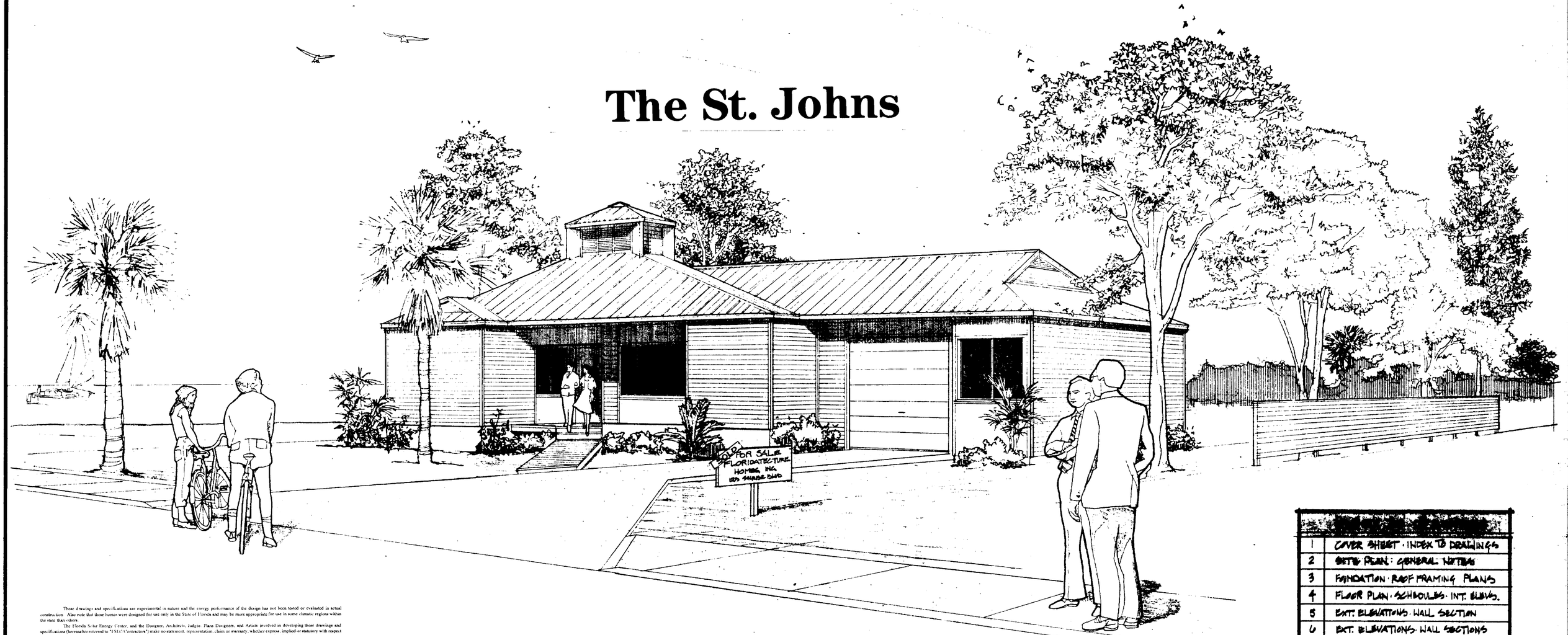
The St. Johns



1	COVER SHEET · INDEX TO DRAWINGS
2	SITE PLAN · GENERAL NOTES
3	FOUNDATION · ROOF FRAMING PLANS
4	FLOOR PLAN · SCHEDULES · INT. ELEVS.
5	EXT. ELEVATIONS · WALL SECTION
6	EXT. ELEVATIONS · WALL SECTIONS
7	BUILDING SECTIONS · DETAILS
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9	ALTER. FLOOR PLAN · MECH. NOTES

FLORIDA SOLAR ENERGY CENTER
300 STATE ROAD A01 · CAPE CANAVERAL, FLA. 32920

ENERGY-EFFICIENT HOME DESIGN, 1990 · CATEGORY NORTH-SOUTH FACING LOT

1. ARC-90
COVER SHEET

[redacted]
96 IVANHOE DRIVE
ORMOND BEACH, FLA 32176

1

general notes

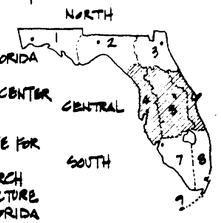
- FIELD VERIFY EXACT LOCATION OF HOUSE
- VERIFY LOT SIZE & BUILDING SETBACKS FOR NO CONFLICTS.
- PROVIDE BUILDING UTILITIES (WATER, SEWER, ELECTRIC & GAS) AS REQUIRED BY LOCAL AUTHORITIES.
- SPECIFIC ENERGY GUIDELINES CAN VARY WITH SITE LOCATION (NORTH CENTRAL SOUTH FLORIDA) AND PERSONAL LIFESTYLE REQUIREMENTS OF HOME OWNER. THESE DRAWINGS ARE DEVELOPED WITH SOME BASIC ENERGY GUIDELINES THAT CAN BE UTILIZED OR ALTERED (TO SOME EXTENT) BY THE BUILDER OR HOME OWNER TO MEET HIS LIFESTYLE AND/OR BUDGET DEMANDS.

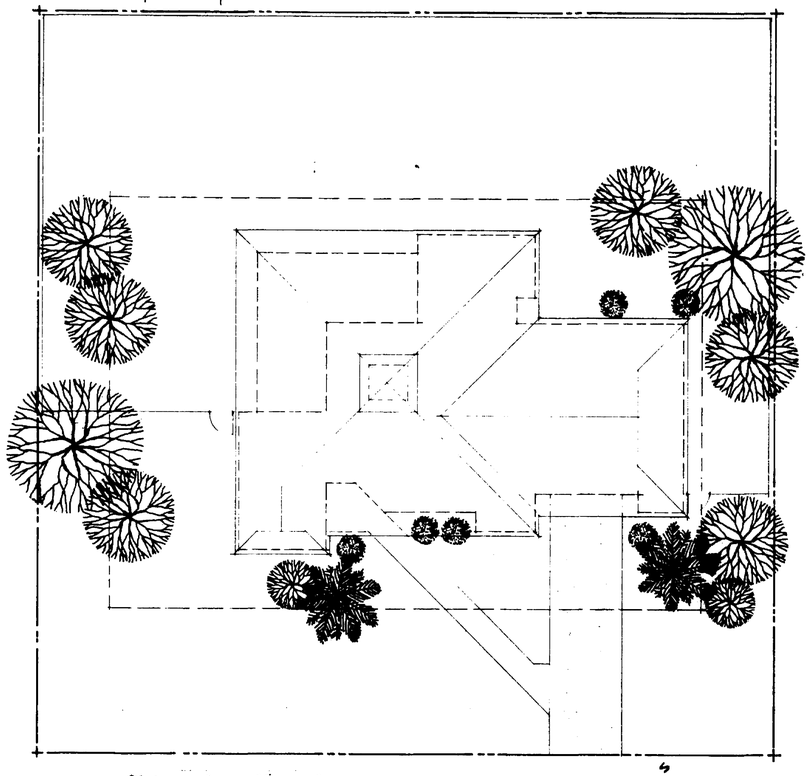
energy guidelines (FROM ENERGY-EFFICIENT FLORIDA HOME BUILDING & HOUSES AND CLIMATE)

- LOCATE HOUSE TO WORK WITH EXISTING VEGETATION AND CONTOURS AS MUCH AS POSSIBLE.
- PROVIDE (ADDITIONAL) TREES ON EAST-WEST SIDES OF THE HOUSE. TREES PREFERABLY DECIDUOUS TYPE WITH A MINIMUM GROWING HEIGHT OF 15-30'.
- WORK WITH EXISTING BREEZES AS MUCH AS POSSIBLE WITH BASIC ORIENTATION AS SHOWN. FENCES IF USED SHOULD HAVE AN OPEN PATTERN TO PROVIDE SOME PRIVACY AND ALLOW (DIRECT) MOVING AIR TO HOUSE.
- PRIMARY SITE PLAN IS OPEN TO SUMMER SOUTHERLY & EASTERLY BREEZES AND CLOSES OFF TO NORTHWESTERLY WINTER WINDS. ALTERNATE SITE DOES THIS TO A LESSER EXTENT.
- HOUSE PLAN CAN BE FLIPPED BUT MAIN LIVING SPACES WILL NOT BE AS PROTECTED FROM LATE AFTERNOON SUMMER SUN. ALSO HOUSE WILL BE MORE OPEN TO NORTHWESTERLY WINTER WINDS.
- LOCATE HOUSE SO THAT REAR YARD IS AS LARGE AND PRIVATE AS POSSIBLE.
- PROVIDE POROUS CONCRETE (IF POSSIBLE) FOR CONCRETE DRIVEWAYS - WALKS AS ALTERNATE. PROVIDE PT. WOOD OR SHELL (MULCH) ENTRY WALK AND SHELL DRIVEWAY AS BASE BID.
- USE NATIVE VEGETATION AND 'NATURAL' UNDISTURBED AREAS TO REDUCE WATER AND LAWN MAINTENANCE
- USE A LANDSCAPE PLAN THAT SHADES RAISED FOUNDATION WALLS AND A.C. CONDENSOR AREA.
- SITE SELECTION - LOOK FOR THESE FEATURES
  - SITES WITH NORTH-SOUTH ORIENTATION FOR FRONT-REAR YARDS.
  - SITES WITH NATURAL VEGETATION (ESPECIALLY SHADE TREES IN APPROPRIATE LOCATIONS)
  - SITES OPEN TO PREVAILING (SPRING THROUGH FALL) BREEZES.
  - LARGE ENOUGH LOT FOR SEMI-PRIVATE OUTDOOR LIVING AREAS (OFF OF OPEN. LIVING SPACES).
- FOR MORE INFORMATION ON SPECIFIC DETAILS OF ENERGY GUIDELINES AND/OR CLIMATE ANALYSIS BY ZONES SEE THE FOLLOWING SOURCES:

RE: - ENERGY-EFFICIENT FLORIDA HOME BUILDING FLA. SOLAR ENERGY CENTER

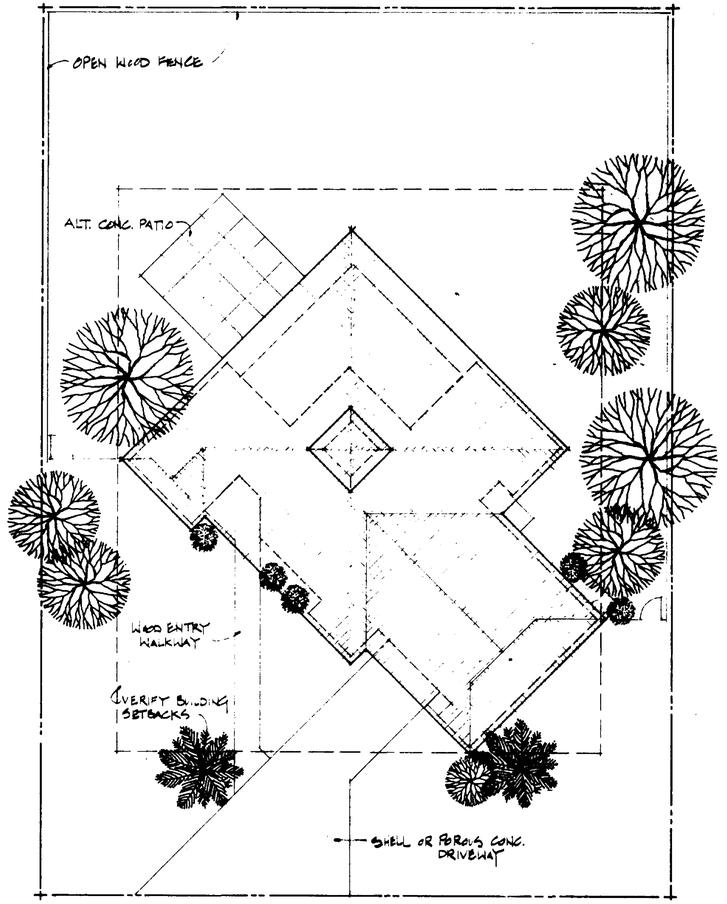
- HOUSES AND CLIMATE (AN ENERGY PERSPECTIVE FOR FLORIDA BUILDERS) BUREAU OF RESEARCH COLLEGE OF ARCHITECTURE UNIVERSITY OF FLORIDA





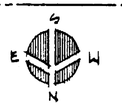
alternate site plan

HOUSE SQUARE TO STREET SC: 1" = 10'-0"



site plan

HOUSE ANGLED TO STREET SC: 1" = 10'-0"



10th eastham hall
40 IVANHOE DRIVE
ORMOND BEACH, FLA 32176

1 AUG. 90

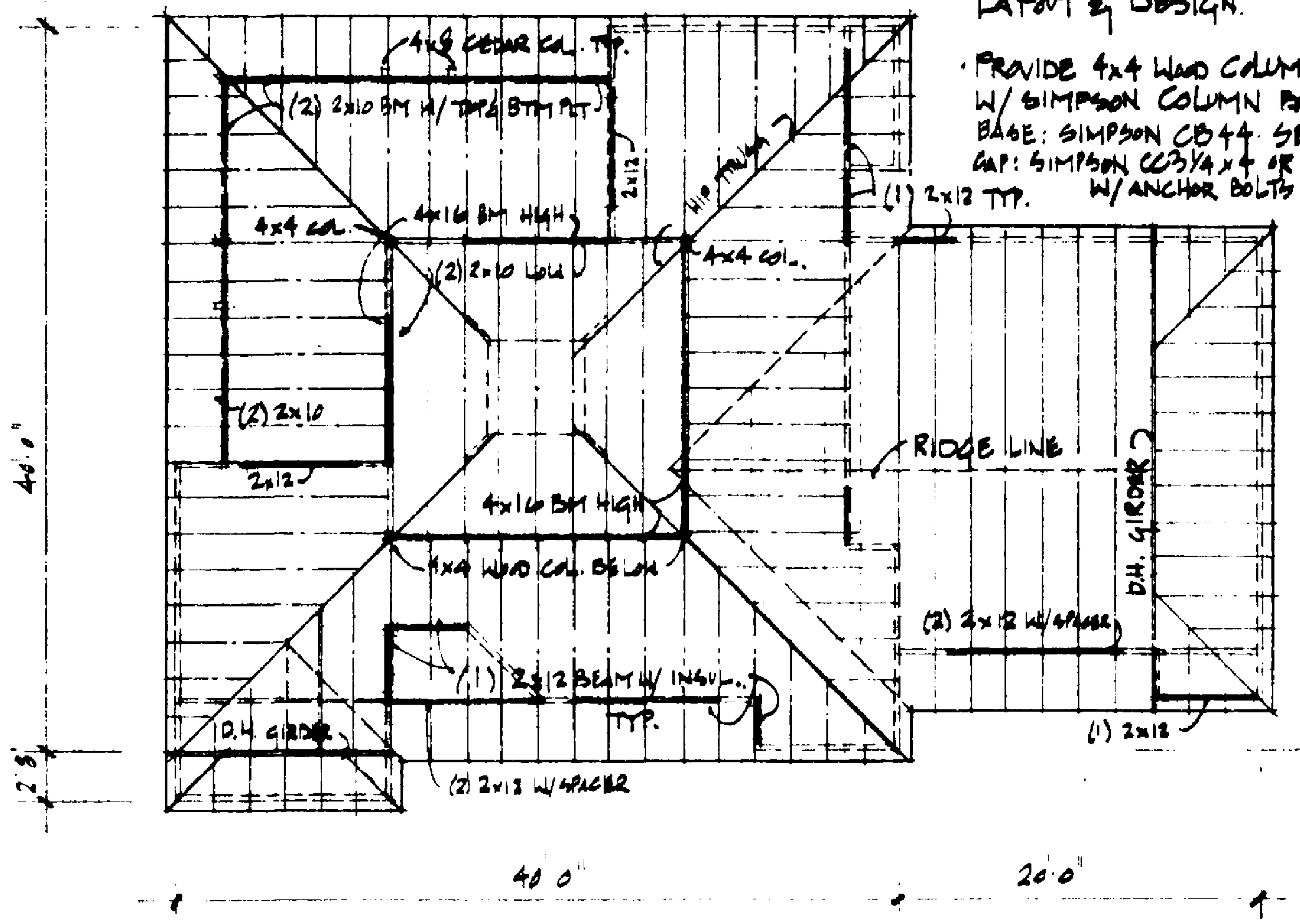
- SITE PLAN
- ENERGY GUIDELINES

FLORIDA SOLAR ENERGY CENTER

USE OF ENERGY EFFICIENT HOME DESIGN

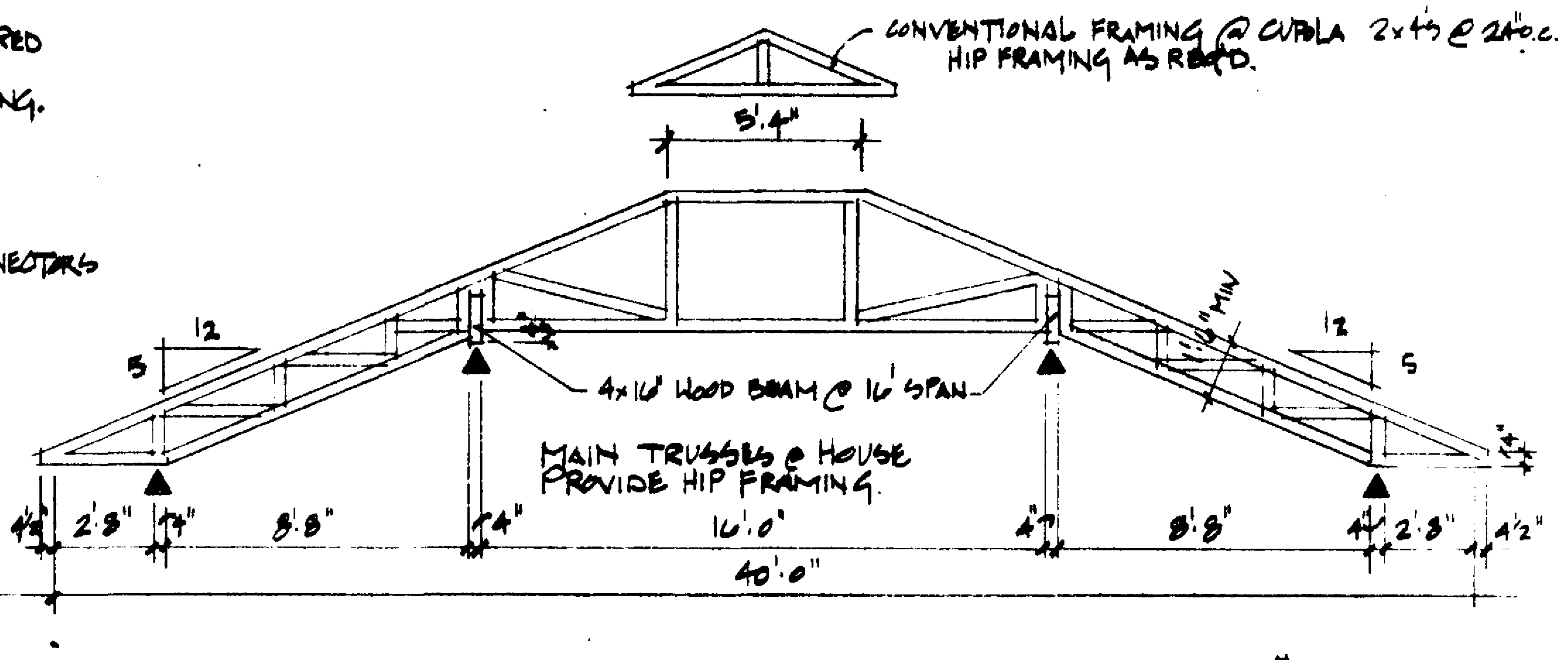
NOTE:
PROVIDE 1/2" EXT. GO. PLYWD. AT CORNERS OF HOUSE INSTEAD OF 1/2" INSULATION (WIND BRACING).

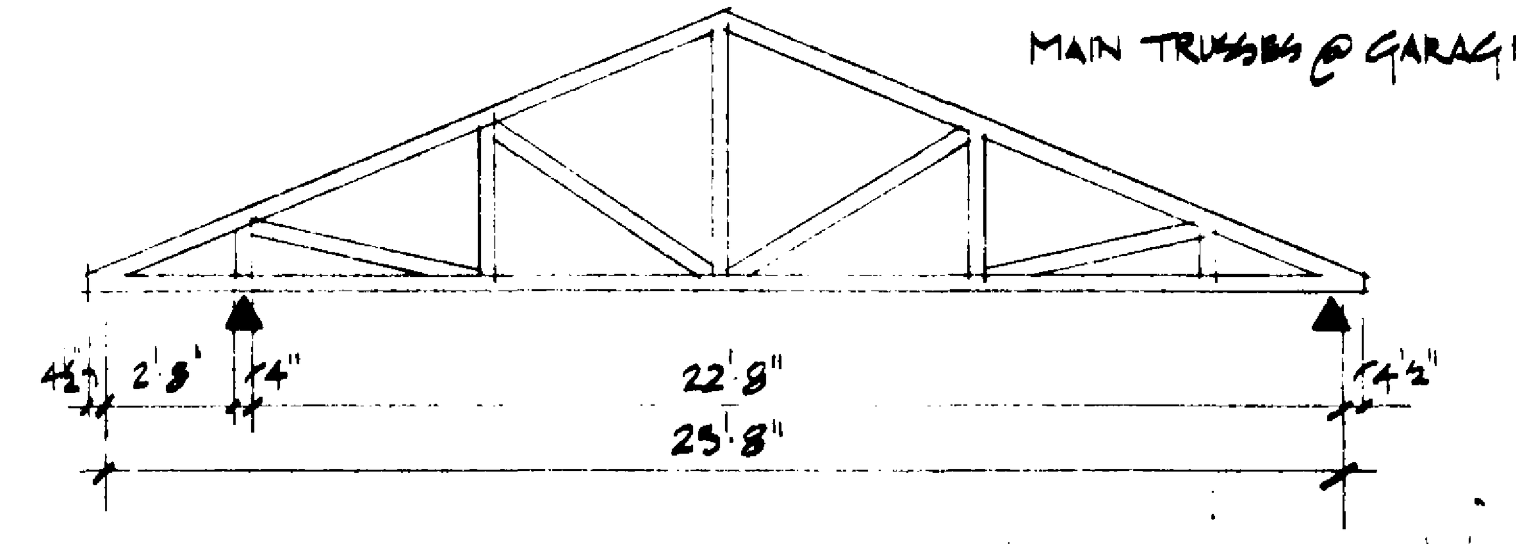
- TRUSSES TO BE PRE ENGINEERED WOOD TRUSSES DESIGNED BY REGISTERED FLORIDA STRUCTURAL ENGINEER.
- DESIGN TRUSSES FOR ALL REQ'D LOADING.
- PROVIDE SHOP DRAWINGS FOR TRUSS LAYOUT & DESIGN.
- PROVIDE 4x4 WOOD COLUMN (4) LOCATIONS W/ SIMPSON COLUMN BASE & CAP CONNECTORS. BASE: SIMPSON CB44 SET INTO SLAB. CAP: SIMPSON CC3 1/4 x 4 OR ECCLL 3 1/2 x 4 W/ ANCHOR BOLTS AS REQUIRED.

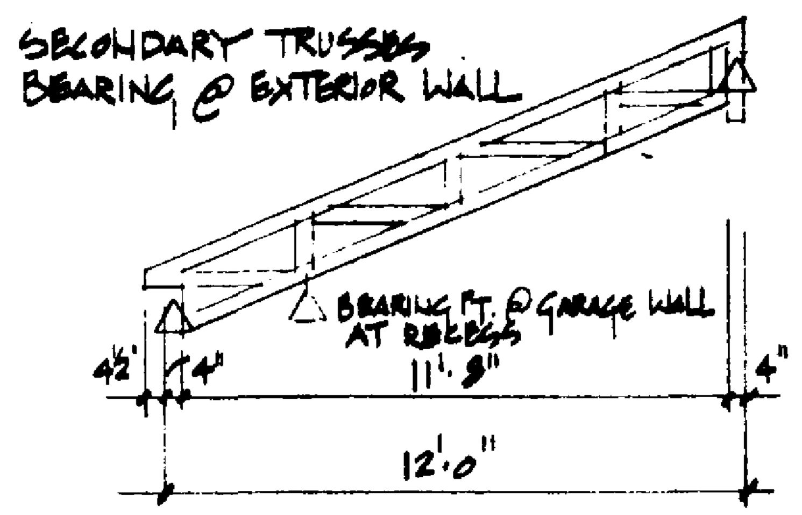


roof framing plan

SC. 1/8"=1'0"



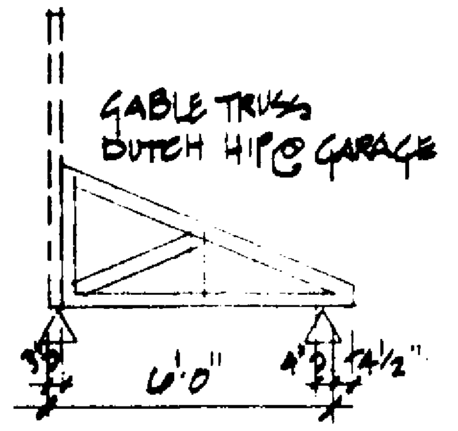


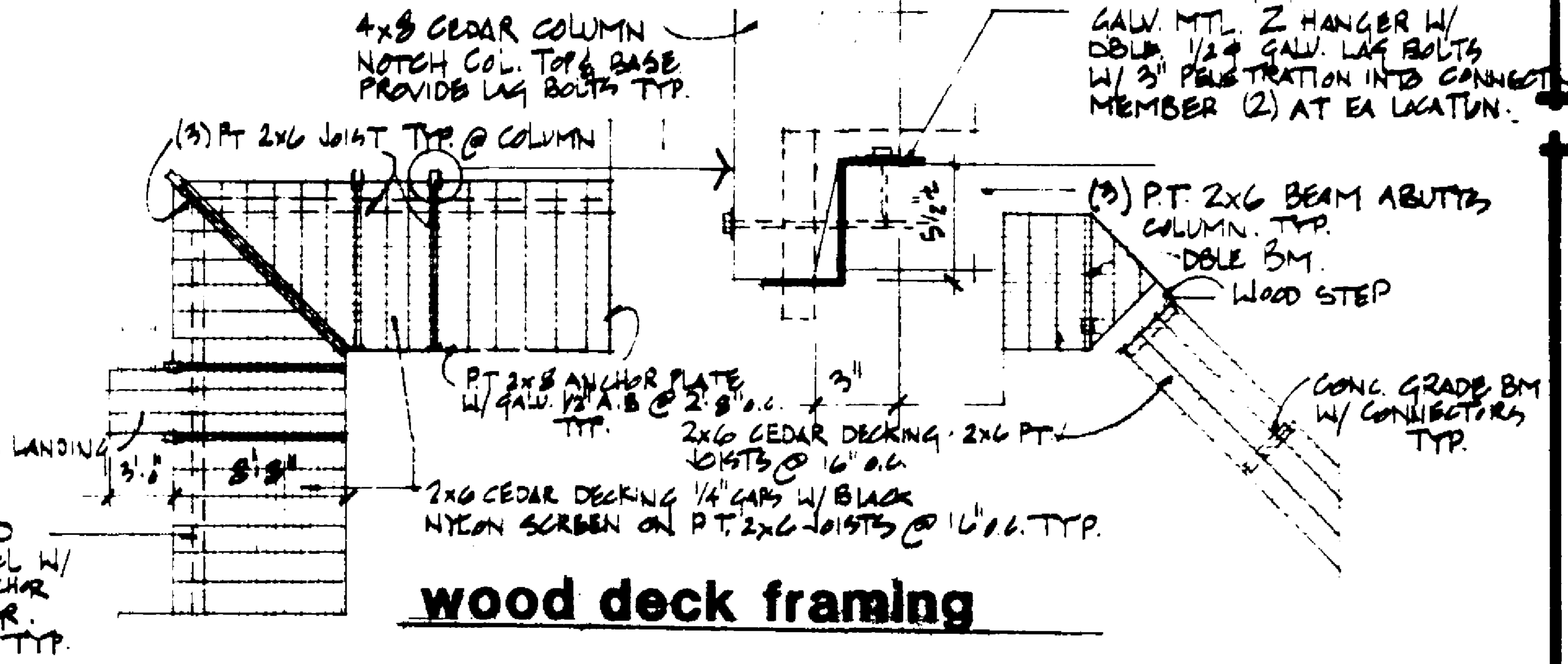


truss profiles

energy guidelines

- 5 VEE CRIMP GALV. ALUM ROOFING OR ALTERNATE LIGHT COLORED (WHITE BEST) ROOF SHINGLES
- CONTINUOUS 3"W SOFFIT VENTS. LOUVERS AT CUPOLA. GABLE VENT @ GARAGE
- R-19 BATT INSULATION (MIN.) AT CEILING PLANE W/ FOIL FACED RADIANT BARRIER ON BOTTOM SIDE OF PLYWD ROOF DECKING.
- SEAL ALL CEILING PENETRATIONS TIGHT W/ INSULATION OR NONCOMBUSTIBLE CAULKING OR FOAM PRODUCTS.
- PROVIDE 5/8"ϕ 8"L ANCHOR BOLTS AT 3'4" o.c. MINIMUM (3) PER LOCATION

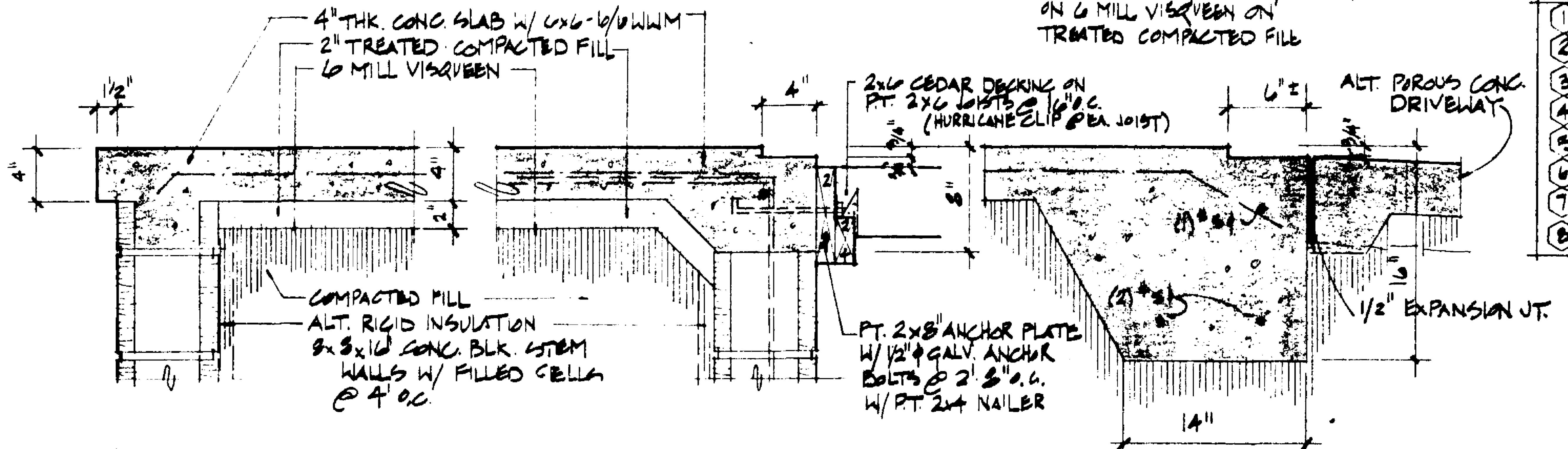




wood deck framing

footing schedule

MARK	SIZE	REINFORCING	REMARKS
1	9"x18"x CONT.	2 #5ϕ CONT.	FILLED CELLS @ 48"
2	8"x16"x CONT.	2 #5ϕ CONT.	A.B. @ 40" o.c.
3	12x16"x CONT.	2 #5ϕ CONT.	A.B. @ 40" o.c.
4	36"x36"x12"D.	5 #5ϕ EA WAY	THICKEN SLAB IN HOUSE
5	30"x72"x12"D	4 #5 LW #3 @16" SW	* PROVIDE CROSS STEEL
6	36x36x12"D	5 #5 EA. WAY	* SEE NOTE
7	20"x20x9"D.	3 #5 EA. WAY	8x8 CONC. BLK. FILLED CELL.
8	18"x12"x36"	2 #5	THICKENED SLAB



1/3 slab detail

SC. 1 1/2"=1'0"

AT TYPICAL EXTERIOR DOOR

2/3 slab detail

AT POCKET SLIDER

3/3 slab detail

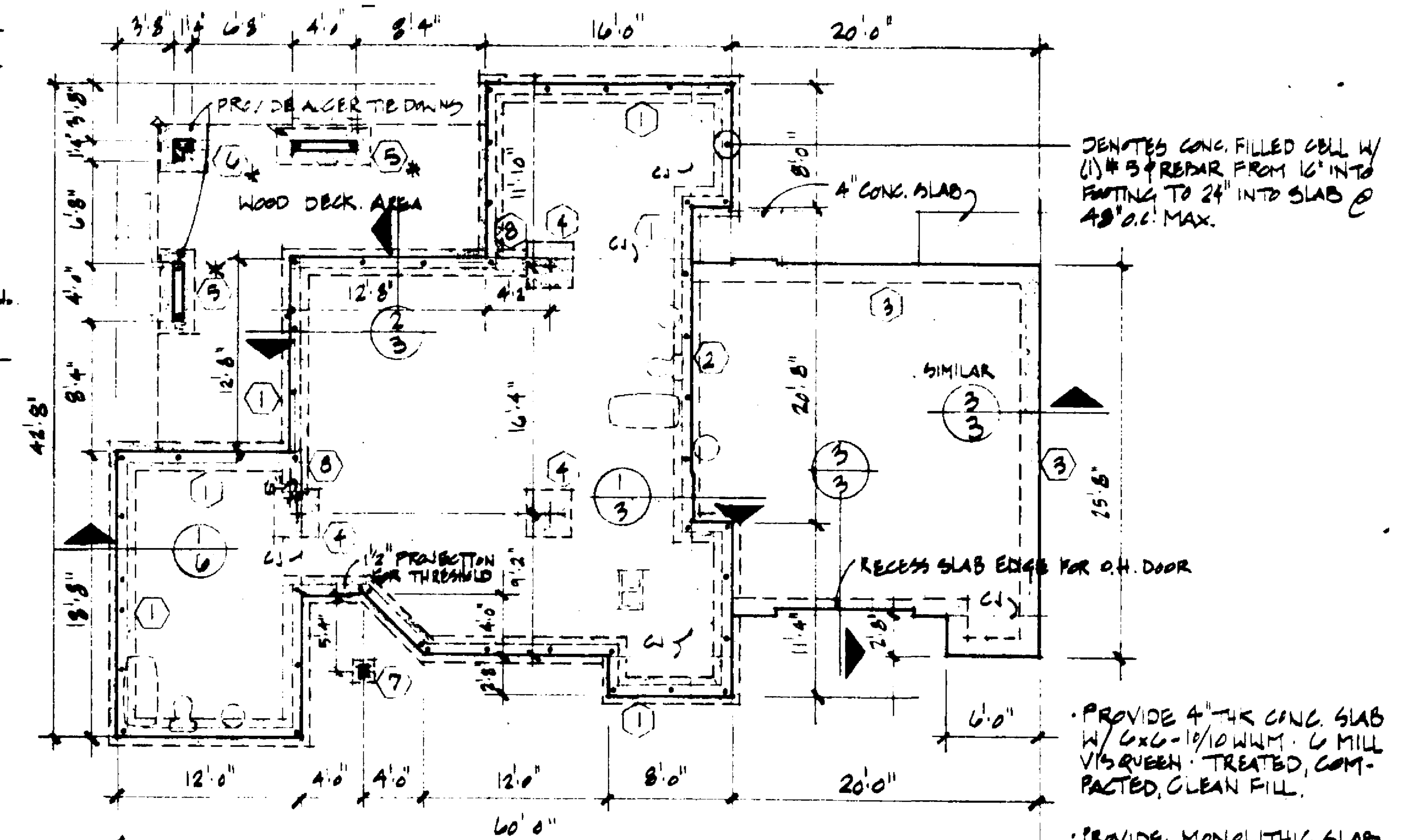
AT GARAGE DOOR

- RAISED SLAB W/ STEM WALLS. DIRECT GROUND CONTACT. ALTERNATE PERIMETER SLAB INSULATION
- ALTERNATE TERRAZZO FINISH FOR HIGHLY CONDUCTIVE FLOOR SYS. HEAT SINK.
- TAKE EXTRA CARE IN CURING SLAB TO HELP PREVENT CRACKING. WIRE MESH. CAULKED CONTROL JOINTS. 2" SAND LAYER UNDER SLAB. SEAL ALL PENETRATIONS.
- SHADE STEM WALLS W/ LANDSCAPING
- SEAL UNDER P.T. SILL PLATE AT WALL.

AT SCREEN PORCH FOOTINGS

*PROVIDE (2) GALVANIZED METAL AUGER TYPE TIE DOWNS PER FOOTING (FOR WIND UPLIFT). RATED @ 2300# UPLIFT MIN. EA ONE.

- FOUNDATION DESIGN BASED ON SOIL BEARING PRESSURE OF 2500 PSF W/ NO ORGANIC OR CLAY TYPE SOILS PRESENT. HAVE SOIL TESTS PERFORMED IF CONDITIONS ARE QUESTIONABLE.



foundation plan

SC. 1/8"=1'0"

- PROVIDE 4" THK CONC. SLAB W/ 6x6-10/10 WWM. 6 MILL VISQUEEN. TREATED, COMPACTED, CLEAN FILL.
- PROVIDE MONOLITHIC SLAB WITH FOOTINGS AT GARAGE AREA ONLY.
- PROVIDE TERMITE TREATMENT UNDER ENTIRE SLAB AREA.

1. AUGUST. 90

john castle hall architect

43 IVANHOE DRIVE ORMOND BEACH, FLA 32176

FOUNDATION PLAN · ROOF FRAMING · DETAILS

FLORIDA SOLAR ENERGY CENTER

1000 S.F. ENERGY EFFICIENT HOME DESIGN

room finish schedule

ROOM	FLOOR	WALLS	CEILING	HT.	REMARKS
	1 CARPET 2 VINYL OR TILE 3 WOOD	4 HARDCOAT PLASTER 5 SMOOTH PLAST. 6 WOOD BATTENED 7	8 HARDCOAT PLAST. 9 WOOD 10		· TERRAZZO ALTERNATE FLOOR FINISH AT LIVING AREAS. · PROVIDE WOOD BASE AT CARPET & VINYL/TILE AREAS
1 ENTRY PORCH	3	6	9	8'0"	EXTERIOR
2 LIVING RM	1	4	9	VARIES	DROP SOFFITS
3 DINING	2	4	9	VARIES	
4 BEDROOM 1	1	4	8	VAR.	
5 BATH 1		5	8	8'	TILE SURROUND @ TUB
6 SCREEN PORCH	3	6	9	VAR	
7 BEDROOM 2	1	4	8		
8 BATH 2	2	5	8	8'	TILE SURROUND @ TUB
9 ALCOVE	2	4	8		
10 KITCHEN	2	5	8	8'	
11 ENTRY	2	4	9	VARIES	
12 GARAGE	CONC.	7	8	9'4	ALT. FEC BD @ WALLS

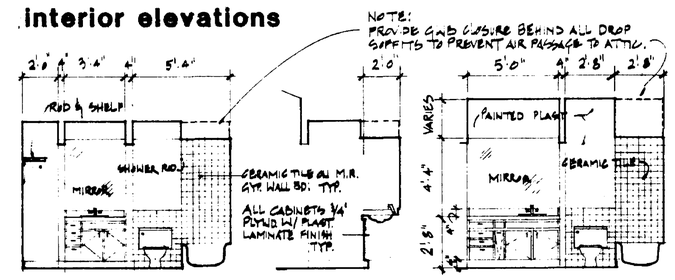
window schedule

MK	SIZE	TYPE	NO REQ	REMARKS
A	8'x 4'	H.S.	1	
B	2'x 3'	H.S.	1	
C	3'x 4'	H.S.	2	
D	6'x 4'	H.S.	2	OR ALT. SIZE
E	8'x 8'	H.S.	2	
F	5'x 4'	H.S.	1	
	ALUM. HORIZONTAL SLIDING WINDOWS W/ INSULATING GLASS			

door schedule

MK	SIZE	TYPE	NO REQ	REMARKS
1	3'-0"x 8'-0"x 1 3/4	INSULAT.	2	(1) ENTRY
2	2'-6"x 6'-8"x 1 3/8	H.C.	2	
3	8'x 6'-8"	SLDG. GL.	2	POCKET SLIDER
4	2'-6"x 6'-8"x 1 3/8	H.C.	3	
5	2'-6"x 6'-8"x 1 3/8	H.C.	2	POCKET
6	2'-0"x 6'-8" PR.	BIFOLD	1	
7	2'x 6'-8"	BIFOLD	1	FULL LOUVER
8	3'x 7'-0"x 1 3/8"	SCREEN	1	
9	3'x 6'-8"x 1 3/8	BIT.	1	
10	9'-8"	O.H.G.	1	
11	2'-6"x 6'-8"	S.C.	1	CUT & FIX
	BOTTOM SECTION TO R/A DUCT			

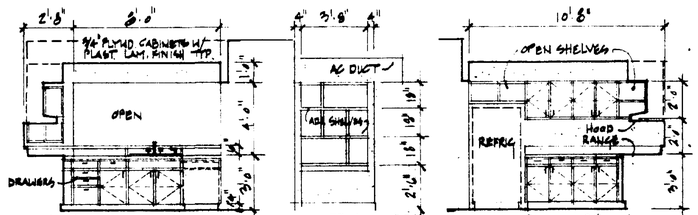
interior elevations



1/4 elevation AT BATH 2 SC: 1/2"=1'-0"

2/4 section

3/4 elevation AT BATH 1



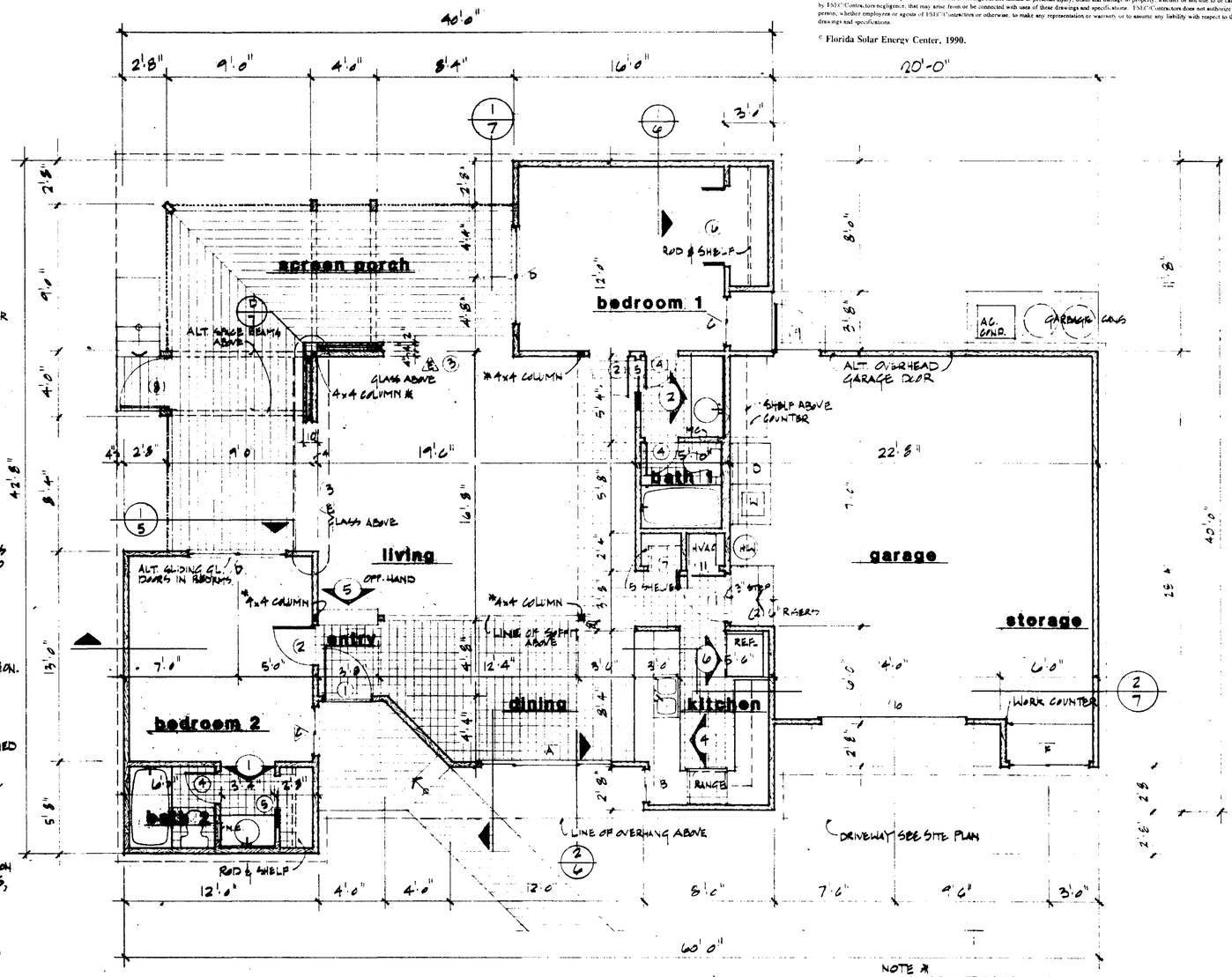
4/4 elevation KITCHEN AT SINK

5/4 elevation AT BUILT-IN

6/4 elevation KITCHEN AT REFRIGERATOR

energy guidelines

- PRIVATE · SCREENED PORCH ALLOWS LIVING AREA AND OR BEDROOMS TO EXTEND TO EXTERIOR.
- MINIMIZE GLASS EXPOSURE WITH OVERHANGS
- ROOM LAYOUT BUFFERS MAIN LIVING SPACES FROM LATE AFTERNOON SUMMER SUN.
- OPEN PLAN FOR CROSS VENTILATION. SEVERAL MEANS OF AUGMENTING NATURAL VENTILATION.
- AIR HANDLER · AC DUCTWORK IN CONDITIONED SPACE · WATER HEATER · LAUNDRY IN NON CONDITIONED SPACE.
- REDUCE FRAMING MEMBERS WHERE POSSIBLE · CORNERS · WALL INTERSECTIONS · HEADERS.
- FILL ALL VOIDS AT INSULATION SEAL ALL PENETRATIONS AT EXTERIOR WALLS · AIR INFILTRATION BARRIER · CAULK AT SILLS, PLATES, WINDOWS.
- MINIMIZED EXPOSED EAST · WEST FACING WALLS · ALTERNATE RADIANT BARRER AT EXPOSED EAST · WEST FACING WALLS
- PREVENT INSULATION COMPACTION AT WIRING · NOTCH STUDS 3/4" AS REQUIRED.



floor plan SC: 1/4" = 1'-0"

1076 SF CONDITIONED AREA

NORTH

NOTE * 4x4 STRUCTURAL WOOD COLUMN FROM SLAB TO UPPER BEAMS WITH BASE & BEAM CONNECTORS. (SEE ROOF FRAMING PLAN).

1 AUGUST 91

95 IVANHOE DRIVE
ORMOND BEACH, FLA. 32176

FLOOR PLAN SCHEDULES INT. ELEVATIONS

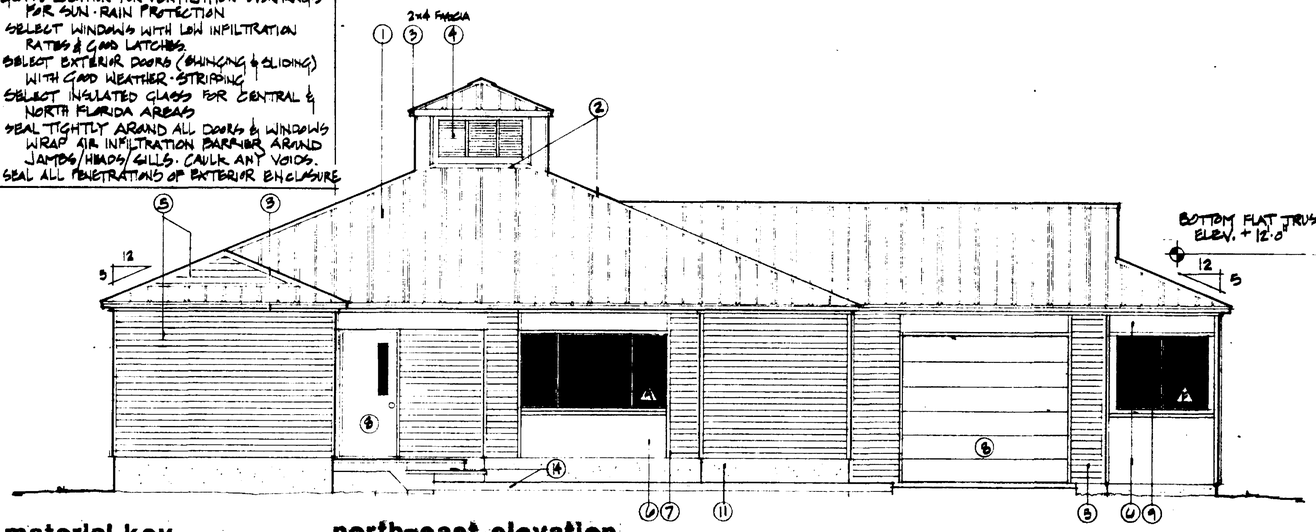
FLORIDA SOLAR ENERGY CENTER

A DOE ENERGY EFFICIENT HOME DESIGN

4

energy guidelines

- GLASS LOCATION FOR VENTILATION · OVERHANGS FOR SUN · RAIN PROTECTION
- SELECT WINDOWS WITH LOW INFILTRATION RATES & GOOD LATCHES
- SELECT EXTERIOR DOORS (SWINGING & SLIDING) WITH GOOD WEATHER-STRIPPING
- SELECT INSULATED GLASS FOR CENTRAL & NORTH FLORIDA AREAS
- SEAL TIGHTLY AROUND ALL DOORS & WINDOWS WRAP AIR INFILTRATION BARRIER AROUND JAMBS/HEADS/SILLS · CAULK ANY VOIDS.
- SEAL ALL PENETRATIONS OF EXTERIOR ENCLOSURE

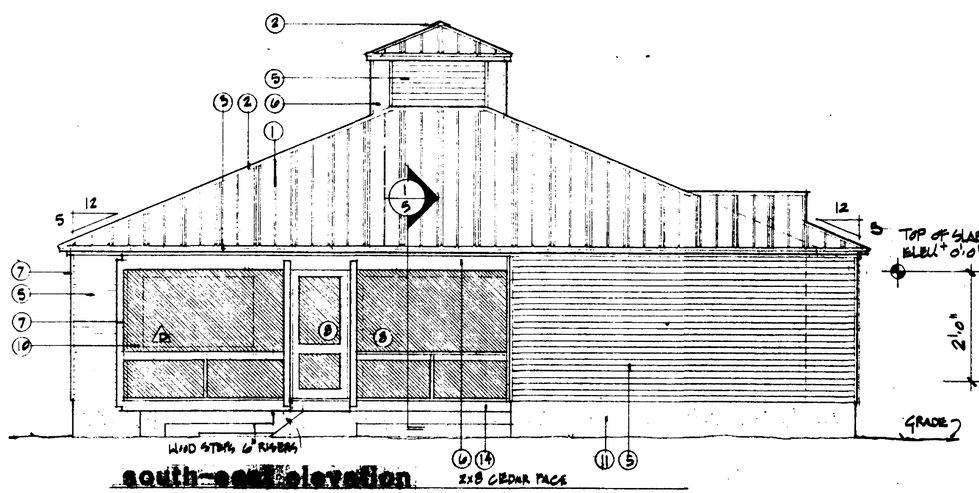


north-east elevation

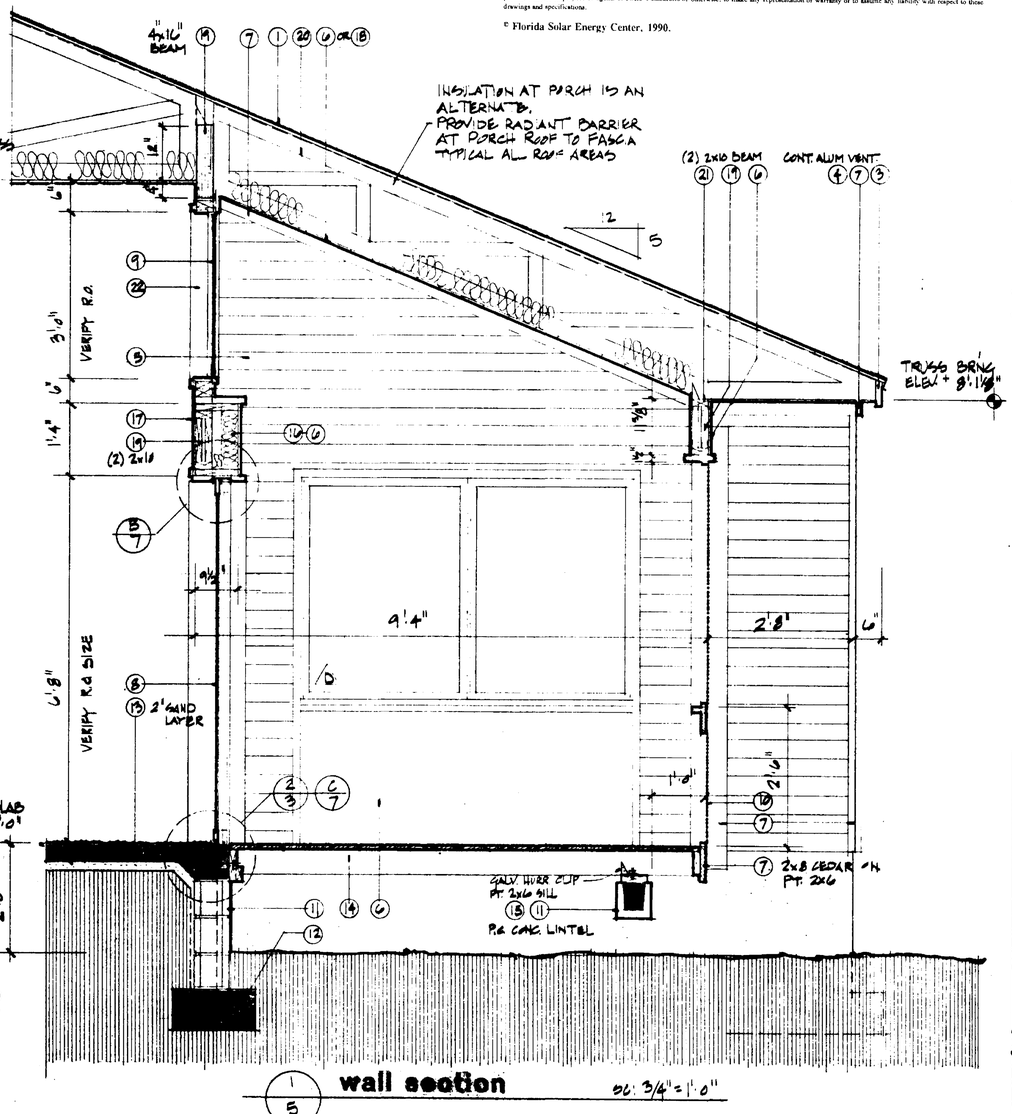
SC: 1/4" = 1'.0"

material key

1. SILVER CRIMP GALV. ALUM ROOFING
2. GALV. ALUM FLASHING / TRIM
3. GALV. ALUM DRIP EDGE · 8x6 CEDAR FASCIA
4. ALUM. LOUVERS / TRIM
5. 12"W. (TYP. 4" EXPOSED) PAINTED MASONITE BEVELED LAP SIDING
6. 1/2" T.&G. PAINTED PINE PLYWD. SIDING
7. 2x4 OR 2x6 CEDAR TRIM OR 4x8 CEDAR COL.
8. DOOR (SEE DOOR SCHEDULE)
9. INSULATED ALUM. WINDOWS (SEE WINDOW SCHEDULE)
10. NYLON SCREEN / ALUM TRIM
11. 1/2" PAINTED STEEL OR 8"x16" GALV. BLK. ACOUSTICAL INSULATION 1" THK.
12. CONCRETE FOOTING (SEE FOUNDATION PLAN)
13. 4" THK. CONC. SLAB · 6 MIL VAPOR BARRIER · TREATED WOOD CONTRACTED SLAB. (SEE FINISH SCHEDULE)
14. 2x8 CEDAR BLKNG · PT. 2x FLOOR JOIST (SEE FLOOR FRAMING PLAN)
15. PT. 8x4 GAL. STEEL · 3/8" DIA. BOLTS @ 3'.4"o.c.
16. 2x4 WOOD STUDS @ 16" O.C. · R-13 BATT INSUL. · 1/2" PLYWD. SHEATHING AS AIR INFILTRATION BARRIER & UNDER EXTERIOR SIDING
17. PAINTED HARDBOARD PLANTER · 1/2" GYP. BD. UNDER CEILING (BOOTH'S ALTERNATE)
18. WOOD BEAMS (SEE ROOF FRAMING PLAN)
19. ROOFING (ENGINEER'S WOOD TRUSSES @ 24" O.C. · R-19 BATT INSUL. · 1/2" PLYWD. SUBSTRATE · REFLECTIVE RADIANT BARRIER) UNDER ROOF · 15# FELT UNDER MTL. ROOFING
20. 3/16" THICK SLATE · GALV. HURRICANE CLIP EA. TRUSS



south-east elevation



wall section

1/5

SC: 3/4" = 1'.0"

1 AUGUST '90

1679 IVANHOE DRIVE, ORMOND BEACH, FLA. 32176

EXT. ELEVATIONS WALL SECTION

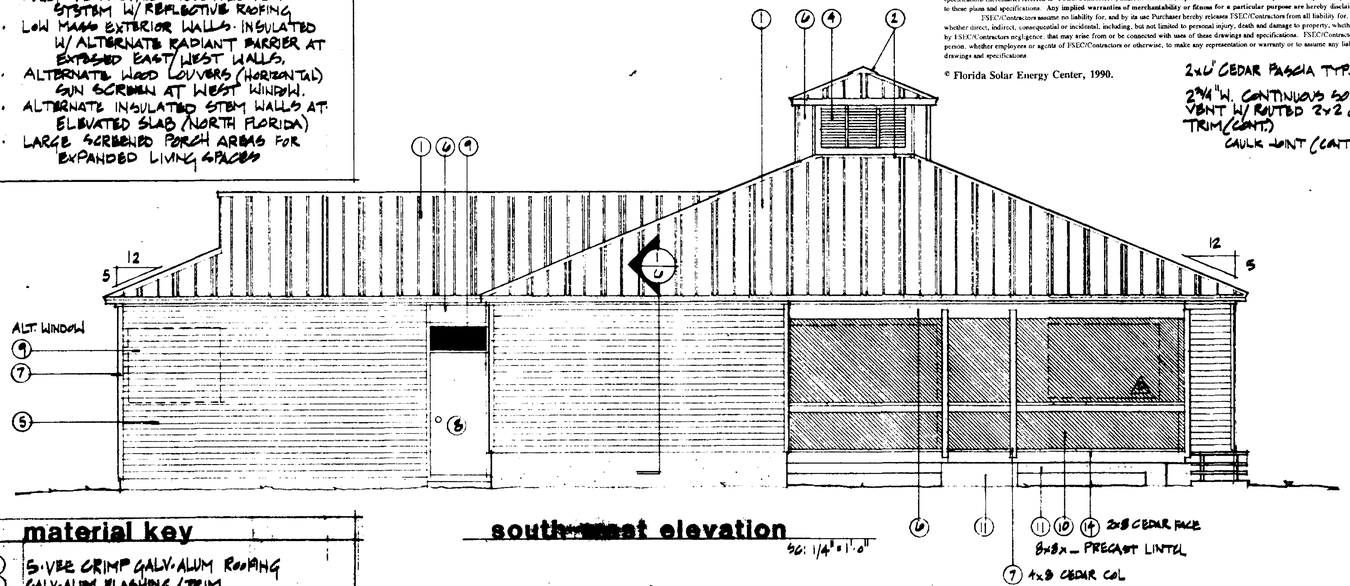
FLORIDA SOLAR ENERGY CENTER

1679 IVANHOE DRIVE, ORMOND BEACH, FLORIDA 32176

5

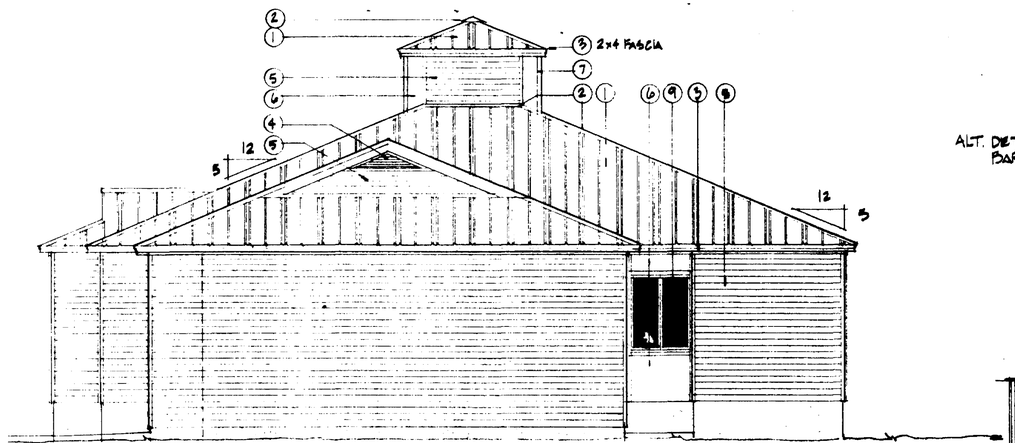
energy guidelines

- FULLY VENTILATED INSULATED ROOF SYSTEM W/ REFLECTIVE ROOFING
- LOW MASS EXTERIOR WALLS - INSULATED W/ ALTERNATE RADIANT BARRIER AT EXPOSED EAST/WEST WALLS.
- ALTERNATE WOOD LOUVERS (HORIZONTAL) SUN SCREEN AT WEST WINDOW.
- ALTERNATE INSULATED STEM WALLS AT ELEVATED SLAB (NORTH FLORIDA)
- LARGE SCREENED PORCH AREAS FOR EXPANDED LIVING SPACES



south-west elevation

SC: 1/4" = 1'-0"

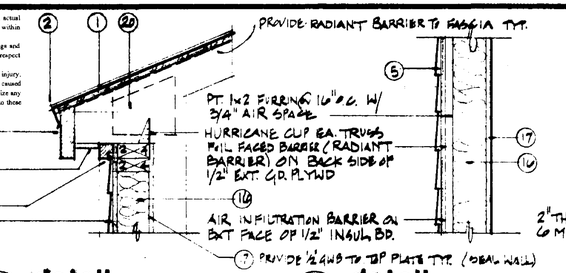


north-west elevation

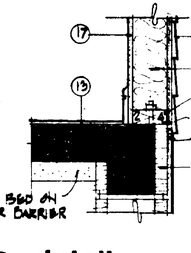
SC: 1/4" = 1'-0"

material key

1. S-VEE CRIMP GALV. ALUM ROOFING
2. GALV. ALUM FLASHING / TRIM
3. GALV. ALUM DRIP EDGE - 2x6 CEDAR FASCIA
4. ALUM. LOUVERS/TRIM
5. 12"W. (THREE 4" COURSES) PAINTED MASONITE BEVELED LAP SIDING
6. 1/8" R.S. PAINTED PINE PLYWD. SIDING
7. 2x4 OR 2x2 CEDAR TRIM OR 4x8 CEDAR COL.
8. DOOR (SEE DOOR SCHEDULE)
9. INSULATED ALUM. WINDOWS (SEE WINDOW SCHEDULE)
10. NYLON SCREEN/ALUM TRIM
11. 1/2" PAINTED STUCCO ON 8"x8"x16" CONC. BLK. ALT. 1" THK. INSULATION AT INSIDE FACE
12. CONCRETE FOOTING (SEE FOUNDATION PLAN)
13. 4" THK. CONC. SLAB - 6 MIL VAPOR BARRIER - TREATED, WELL COMPACTED SLAB. (FINISH SEE FINISH SCHEDULE)
14. 2x6 CEDAR DECKING - PT 2x FLOR JOIST (SEE DECK FRAMING PLAN)
15. PT. 2x4 SILL PLATE - 5/8" ø A. BOLTS @ 5'-4" o.c.
16. 2x4 WOOD STUDS @ 16" o.c. - R-13 BATT INSUL. - 1/2" THERMOSEAL AIR INFILTRATION BARRIER UNDER EXTERIOR SIDING
17. PAINTED HARDCOAT PLASTER - 1/2" GYP. BD.
18. WOOD CEILING (ADDITIVE ALTERNATE)
19. WOOD BEAM (SEE ROOF FRAMING PLAN)
20. PRE-ENGINEERED WOOD TRUSSES @ 24" o.c. - R-19 BATT INSUL. - 1/2" PLYWD. SUBSTRATE - FOIL AT BOTTOM (RADIANT BARRIER) UNDER SIDE - 15# FELT UNDER MTL. ROOFING
21. DBLE 2x4 TOP PLATE - GALV. HURRICANE CLIP EA. TRUSS

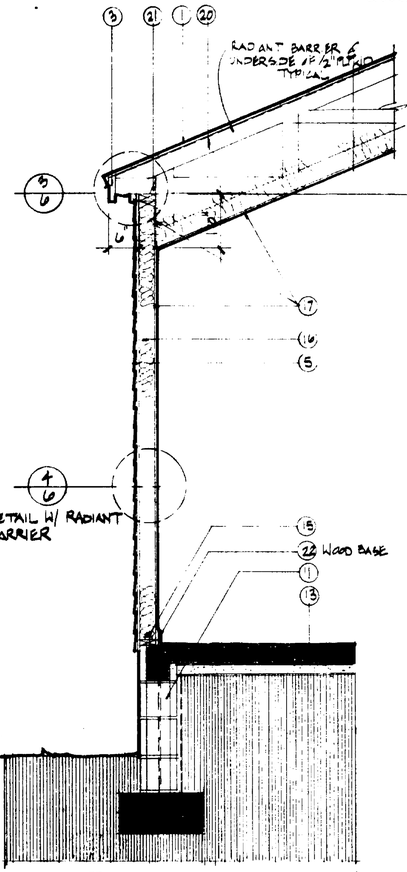


3/6 **detail** — AT CONTINUOUS SOFFIT VENT

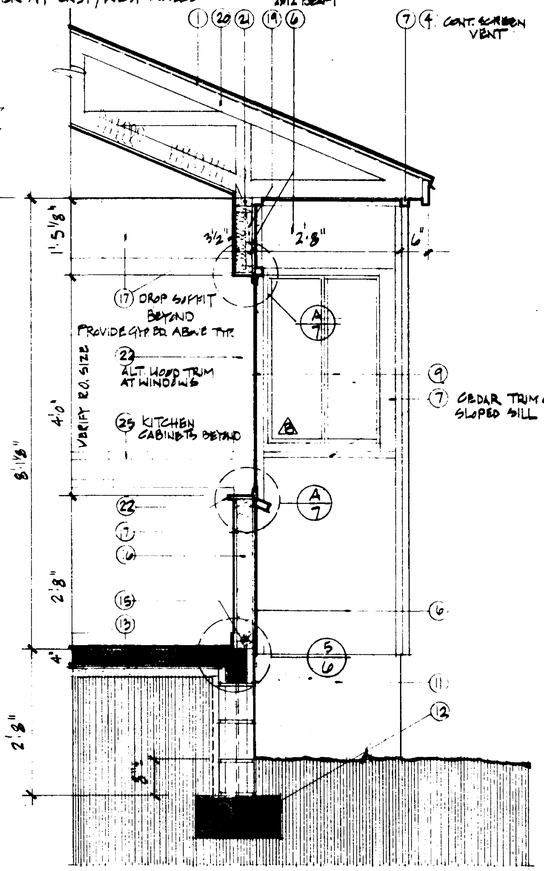


4/6 **detail** — AT ALTERNATE RADIANT BARRIER AT EAST/WEST WALLS

5/6 **detail** — AT EXTERIOR WALL AT SLAB



1/6 **wall section** — AT TYP. EXTERIOR WALL NO OVERHANG



2/6 **wall section** — AT DINING AREA WINDOW SC: 3/4" = 1'-0"

1. AUG/ST. 10

19 IVANHOE DRIVE DAYTONA BEACH, FLA. 32114

ELEVATIONS WALL SECTIONS DETAILS

FLORIDA SOLAR ENERGY CENTER

1000 S.F. ENERGY EFFICIENT HOME DESIGN

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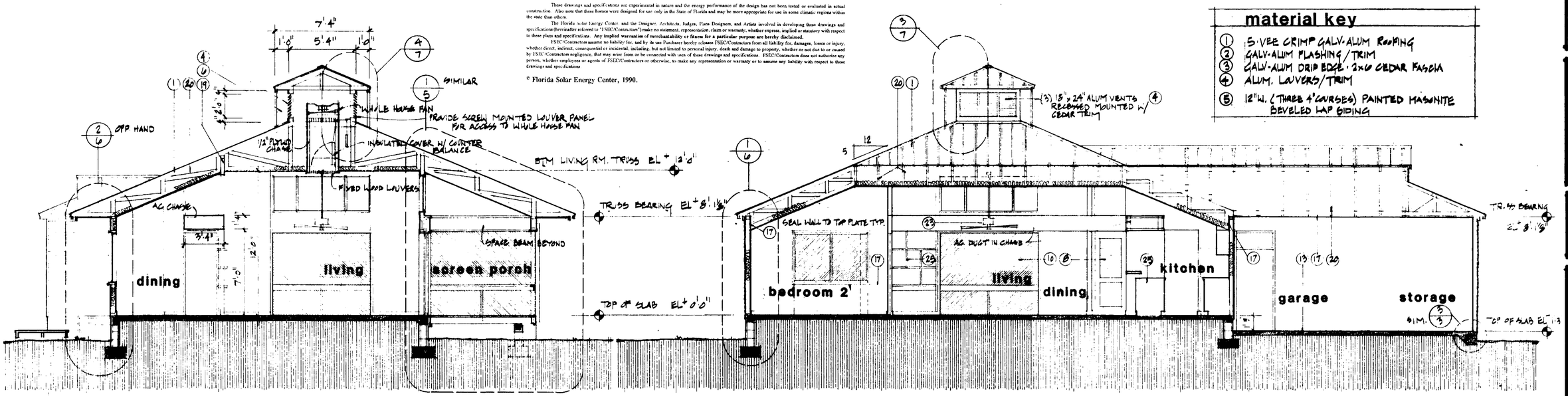
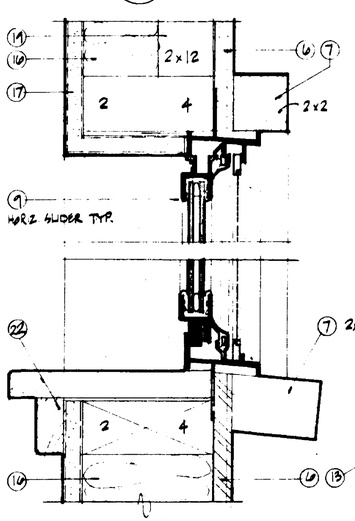
material key

1. 5-V CRIMP GALV. ALUM ROOFING
2. GALV. ALUM FLASHING / TRIM
3. GALV. ALUM DRIP EDGE · 2x6 CEDAR FASCIA
4. ALUM. LOUVERS / TRIM
5. 12"W. (THREE 4" COURSES) PAINTED MASONITE BEVELED LAP SIDING
6. 1/2" R.S. PAINTED PINE PLYWD. SIDING
7. 2x4 OR 2x2 CEDAR TRIM OR 4x8 CEDAR COL.
8. DOOR (SEE DOOR SCHEDULE)
9. INSULATED ALUM. WINDOWS (SEE WINDOW SCHEDULE)
10. NYLON SCREEN / ALUM TRIM
11. 1/2" PAINTED STUCCO ON 8"x8"x16" CONC. BLK. ALT. PERIMETER INSULATION 1" THK.
12. CONCRETE FOOTING (SEE FOUNDATION PLAN)
13. 4" THK. CONC. SLAB · 6 MIL VAPOR BARRIER. TREATED, WELL COMPACTED SLAB. (FINISH SEE FINISH SCHEDULE)
14. 2x6 CEDAR DECKING · PT. 2x FLOOR JOIST (SEE DECK FRAMING PLAN)
15. PT. 2x4 SILL PLATE · 5/8"ø A.B. @ 3'-4" o.c.
16. 2x4 WOOD STUDS @ 16" o.c. · R-13 BATT INSUL. 1/2" INSUL. BD. AIR INFILTRATION BARRIER UNDER EXTERIOR SIDING
17. PAINTED HARDCOAT PLASTER · 1/2" GYP. BD.
18. WOOD CEILING (ADDITIVE ALTERNATE)
19. WOOD BEAM (SEE ROOF FRAMING PLAN)
20. PRE-ENGINEERED WOOD TRUSSES @ 24" o.c. · R-19 BATT INSUL. · 1/2" PLYWD. SUBSTRATE FOIL AT BOTTOM (RADIANT BARRIER) UNDER SIDE · 15# FELT UNDER MTL. ROOFING
21. DBLE 2x4 TOP PLATE · GALV. HURRICANE CLIP BA. TRUSS
22. INTERIOR WOOD TRIM PAINTED OR STAINED
23. CEILING FAN
24. AC DUCTWORK · PAINTED PLAST. · GYP BD. W/ FRM.
25. BUILT-IN (SEE INTERIOR ELEVATIONS)

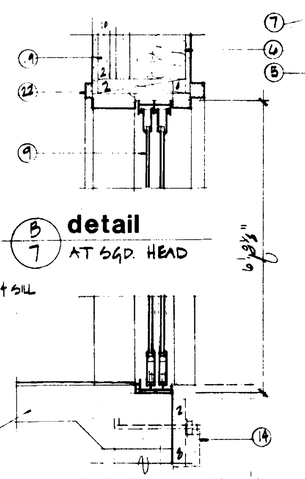


1/7 building section — CROSS SECTION AT LIVING AREAS — SC: 1/4" = 1'-0"

2/7 building section — LONGITUDINAL SECTION AT MAIN LIVING AREAS

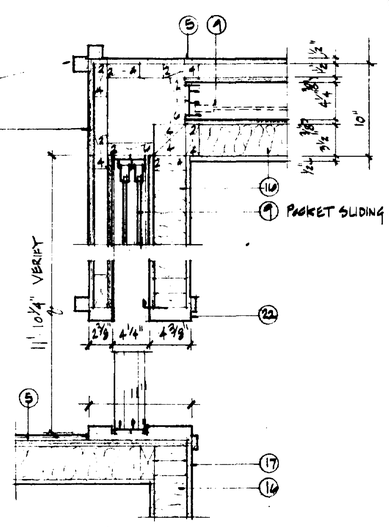


A/7 detail — AT TYP. HORIZ. SLIDING WINDOW — SC: 3" = 1'-0"

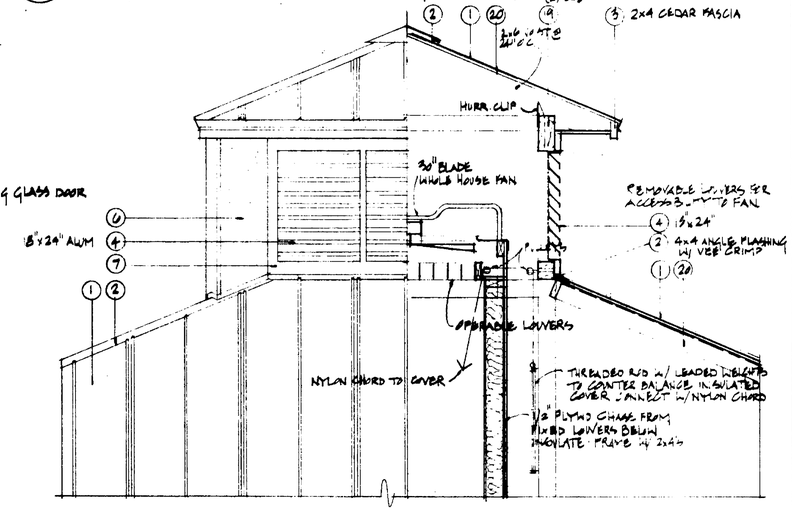


B/7 detail — AT SGD. HEAD

C/7 detail — AT SGD. SILL — SC: 1 1/2" = 1'-0"



D/7 detail — AT POCKET SLIDING GLASS DOOR JAMBS — SC: 1 1/2" = 1'-0"



3/7 elevation — AT VENTILATION CUPOLA — SC: 3/4" = 1'-0"

4/7 section — AT WHOLE HOUSE FAN

1. AUGUST '90

john eastham hall architect
93 WAHNEE DRIVE ARMANDO BEACH, FLA. 32176

BUILDING SECT. DETAILS

FLORIDA SOLAR ENERGY CENTER
1000 S.F. ENERGY EFFICIENT HOME DESIGN

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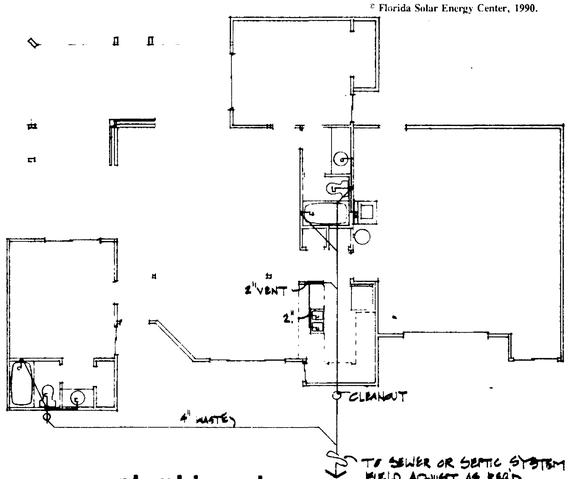
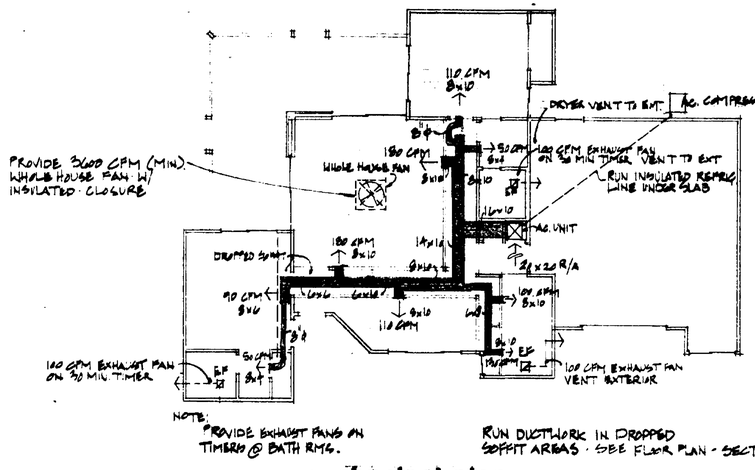


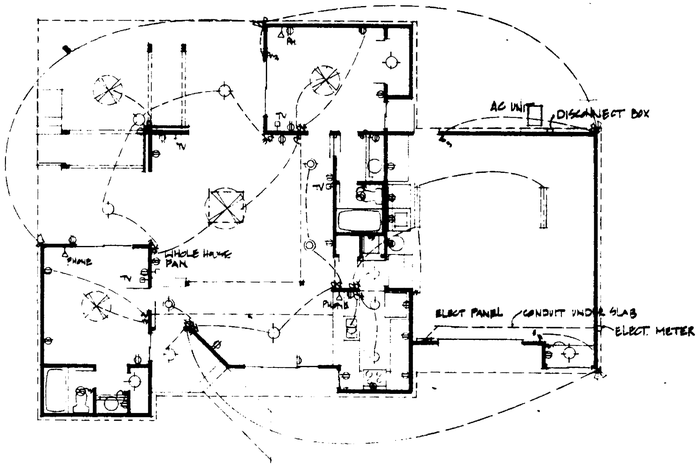
plumbing plan

SC: 1/8" = 1'-0"

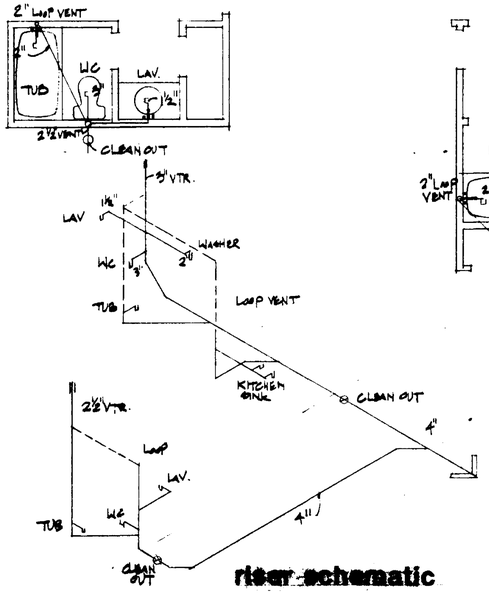


mechanical plan

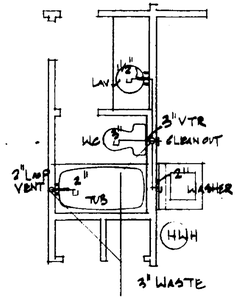
SEE SHEET 7 FOR MORE MECHANICAL NOTES

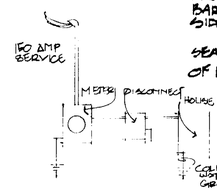


electrical plan



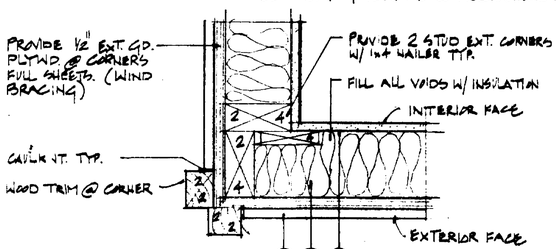
riser schematic





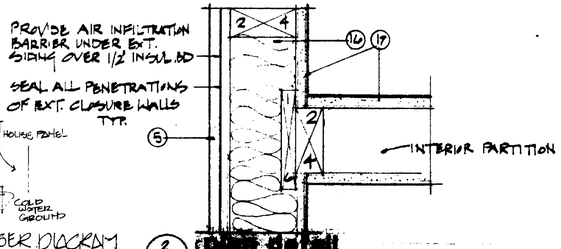
ELECTRICAL RISER DIAGRAM

N.T.S.



1/8 **plan detail** SC: 3" = 1'-0"

AT TYP. EXTERIOR CORNER

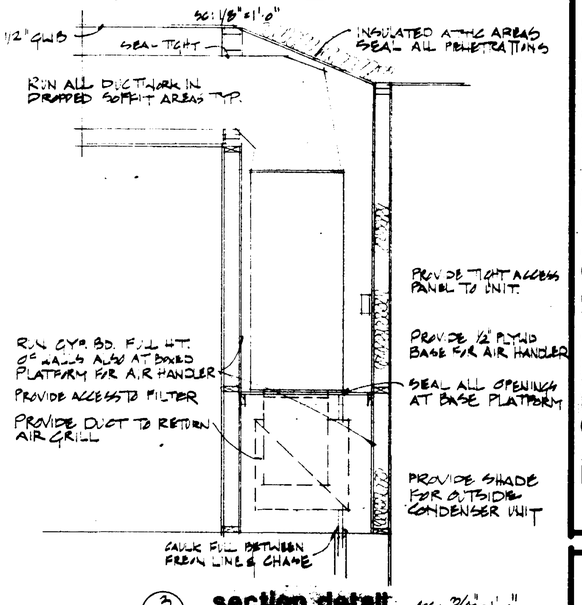


2/8 **plan detail**

AT INTERIOR/EXTERIOR WALL CONNECTION

energy guidelines

- SELECT AIR CONDITIONER W/ SEER OF 10 OR GREATER. ALTERNATE: MULTISPEED COMPRESSOR & BLOWER.
- SHADE EXTERIOR COMPRESSOR UNIT.
- PROPERLY SIZED AIR CONDITIONER UNIT. LOCATE AIR HANDLER AND DUCTWORK IN CONDITIONED SPACE.
- SELECT ALTERNATE PROGRAMMABLE THERMOSTAT
- PROVIDE EXHAUST FANS IN BATHROOMS AND KITCHEN. SEAL AT FANS AND SELECT FANS WITH TIGHT SEALING LOUVERS.
- PROVIDE CEILING FANS (OR PREWIRE) AT ALL MAJOR ROOMS.
- PROVIDE WHOLE HOUSE FAN FOR AUGMENTING NATURAL VENTILATION.
- SELECT ENERGY EFFICIENT KITCHEN AND UTILITY APPLIANCES. ALTERNATE: SOLAR HOT WATER HEATER SYSTEM. USE ALT. SOLAR DRYER (CLOTHES LINE). INSULATE HOT WATER LINES.
- LOCATE WASHER - DRYER - HOT WATER HEATER IN NON CONDITIONED SPACE.
- SELECT EFFICIENT LIGHTING LIGHTING FIXTURES.
- SELECT WATER CONSERVING SHOWER HEADS AND WATER CLOSETS.
- ALTERNATE WELL AND IRRIGATION SYSTEM W/ TIMER FOR LANDSCAPING.
- PROVIDE EXTRA ATTENTION TO SEALING OFF CLOSET W/ AIR HANDLER TO ATTIC & EXTERIOR



3/8 **section detail** SC: 3/4" = 1'-0"

AT AIR HANDLER CLOSET

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1000 S.F. ENERGY EFFICIENT HOME DESIGN

1. AUGUST '90

13 WANDA DRIVE
ORMOND BEACH, FLA. 32174

PLUMBING PLAN
MECH. PLAN
ELECTRICAL PLAN

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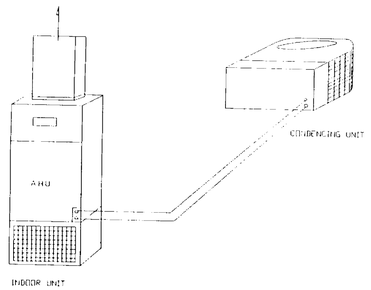
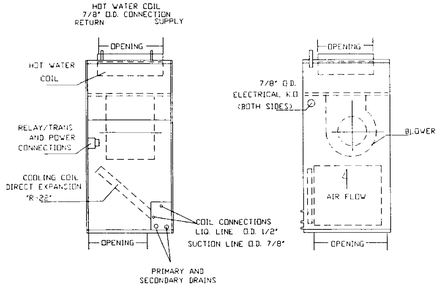
mechanical notes





DIRECT EXPANSION COOLING/HOT WATER HEATING FAN COIL UNIT DETAILED (N.T.S.)

COMFORT CONDITIONING SCHEDULE WITH ALL ELECTRICAL UTILITIES

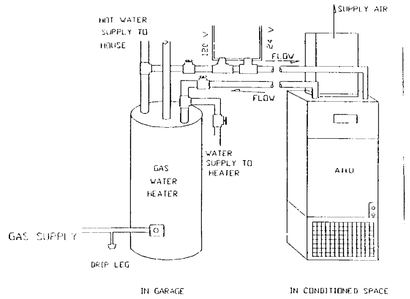
COOLING CAPACITY REQUIRED: 23,600 BTUH *
HEATING CAPACITY REQUIRED 18,800 BTUH *
AIR FLOW REQUIRED (CFM): 1000 CFM *

MINIMUM RECOMMENDED SEER: 11.0
TYPE: HEAT PUMP MINIMUM
RECOMMENDED HSPF: 8.0

SELECTED EQUIPMENT

UNIT	MAKE	MODEL#	COOLING (BTUH)	SEER	HSPF	HEATING (BTUH)	AUX.HEAT STRIP	CFM
CONDENSER								
A.H.U.								

* Based on plans for provided by FSEC and quality construction. If plans have been altered, heating cooling and airflow requirements should be recalculated. The loads were calculated base on a peak summer load temperature 95 ° F drybulb and 77 ° F wetbulb and a winter load temperature of 31 ° F using CARRIER E-2011 sizing computer program



COMFORT CONDITIONING SCHEDULE WITH GAS HEAT

COOLING CAPACITY REQUIRED: 23,600 BTUH *
HEATING CAPACITY REQUIRED 18,800 BTUH *
AIR FLOW REQUIRED (CFM): 1000 CFM *

MINIMUM RECOMMENDED SEER: 11.0
RECOMMENDED TYPE OF EQUIPMENT: GAS HYDRONIC FURNACE (ALL COMBUSTION IS AT WATER HEATER)

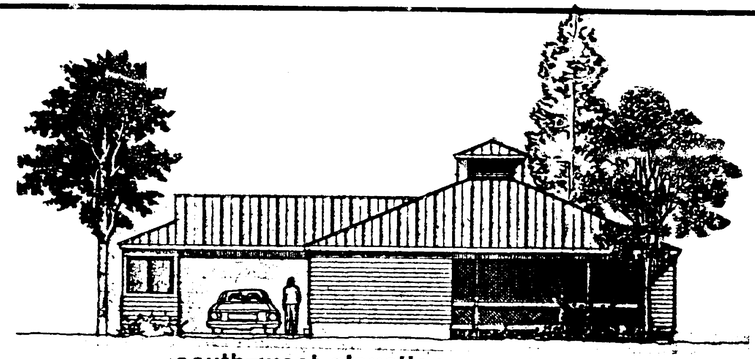
SELECTED EQUIPMENT

UNIT	MAKE	MODEL#	COOLING (BTUH)	SEER	HEATING (BTUH)	RECOVERY EFF.	CFM	TANK SIZE
CONDENSER								
DX COIL								
HYDRONIC HEAT WATER HEATER								
A.H.U.								

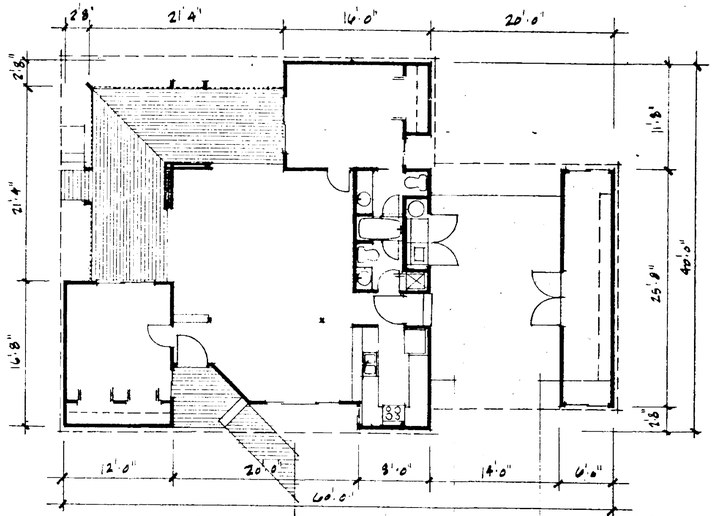
* Based on plans for provided by FSEC and quality construction. If plans have been altered, heating cooling and airflow requirements should be recalculated. The loads were calculated base on a peak summer load temperature 95 ° F drybulb and 77 ° F wetbulb and a winter load temperature of 31 ° F using CARRIER E-2011 sizing computer program.

EXHAUST FAN SCHEDULE

	MAKE	SONES	CFM	VOLTS	HP	PHASE
E.F.# 1 & 2		≤ 2	50	115	60	1



south-west elevation sc: 1/8"=1'-0"



alternate floor plan sc: 1/8"=1'-0"

north-east elevation

11 AUGUST 90
John Gastham Hall
architect
75 IVANHOE DRIVE
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ALT. FLOOR PLAN
MECH. NOTES

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