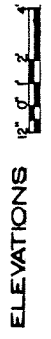
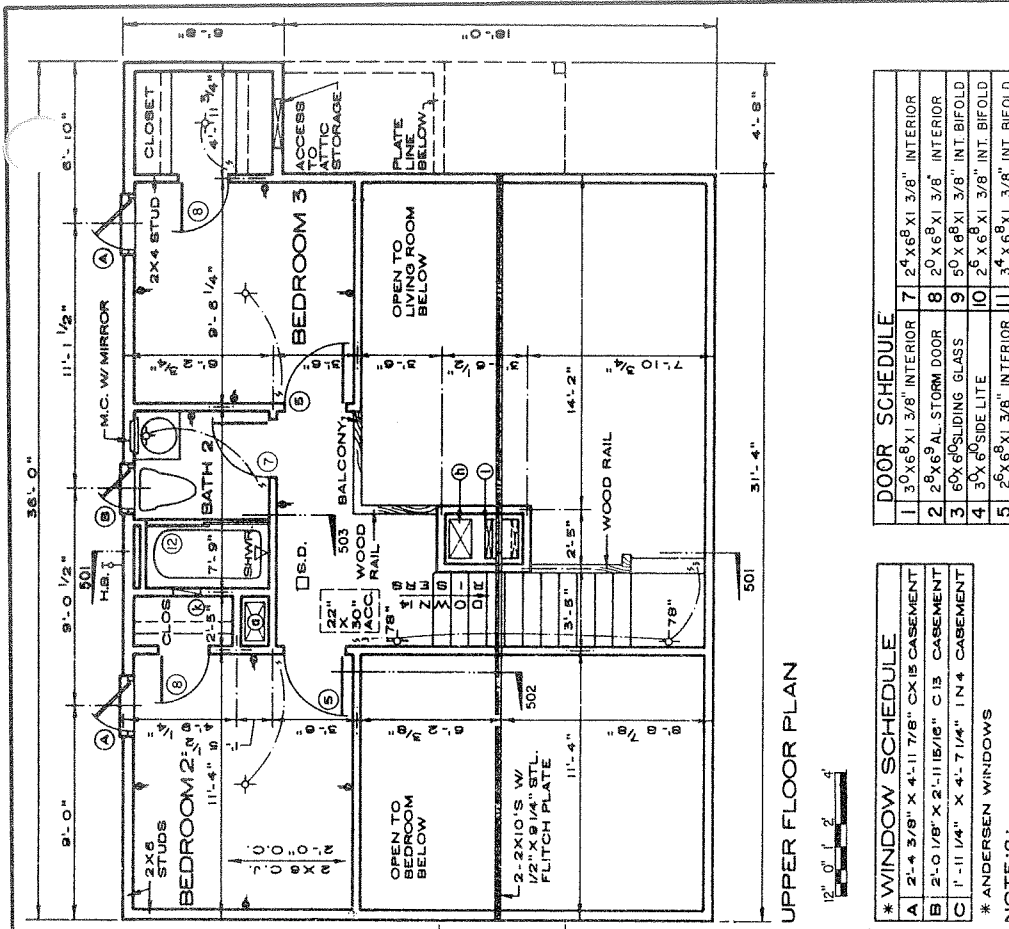


COOPERATIVE EXTENSION SERVICE
 AND
 UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING
 EARTH-BANKED HOUSE
 WITH SUN SPACE

USDA '84 7243 SHEET 1 OF 7



ELEVATIONS



UPPER FLOOR PLAN



*** WINDOW SCHEDULE**

A	2'-4 3/8" X 4'-11 7/8" CX15 CASEMENT
B	2'-0 1/8" X 2'-11 1/16" C13 CASEMENT
C	1'-11 1/4" X 4'-7 1/4" IN-4 CASEMENT

DOOR SCHEDULE

1	3'0x6'8" X 3/8" INTERIOR	7	2'4'x6'8" X 3/8" INTERIOR
2	2'2'x6'8" AL STORM DOOR	8	2'0'x6'8" X 3/8" INTERIOR
3	6'0'x6'0" SLIDING GLASS	9	5'0'x6'8" X 3/8" INT. BIFOLD
4	3'0'x6'0" SIDE LITE	10	2'6'8" X 3/8" INT. BIFOLD
5	2'6'x6'8" X 3/8" INTERIOR	11	3'4'x6'8" X 3/8" INT. BIFOLD
6	3'0'x6'8" X 3/8" EXTERIOR	12	TEMP GLASS SHWR. DOOR

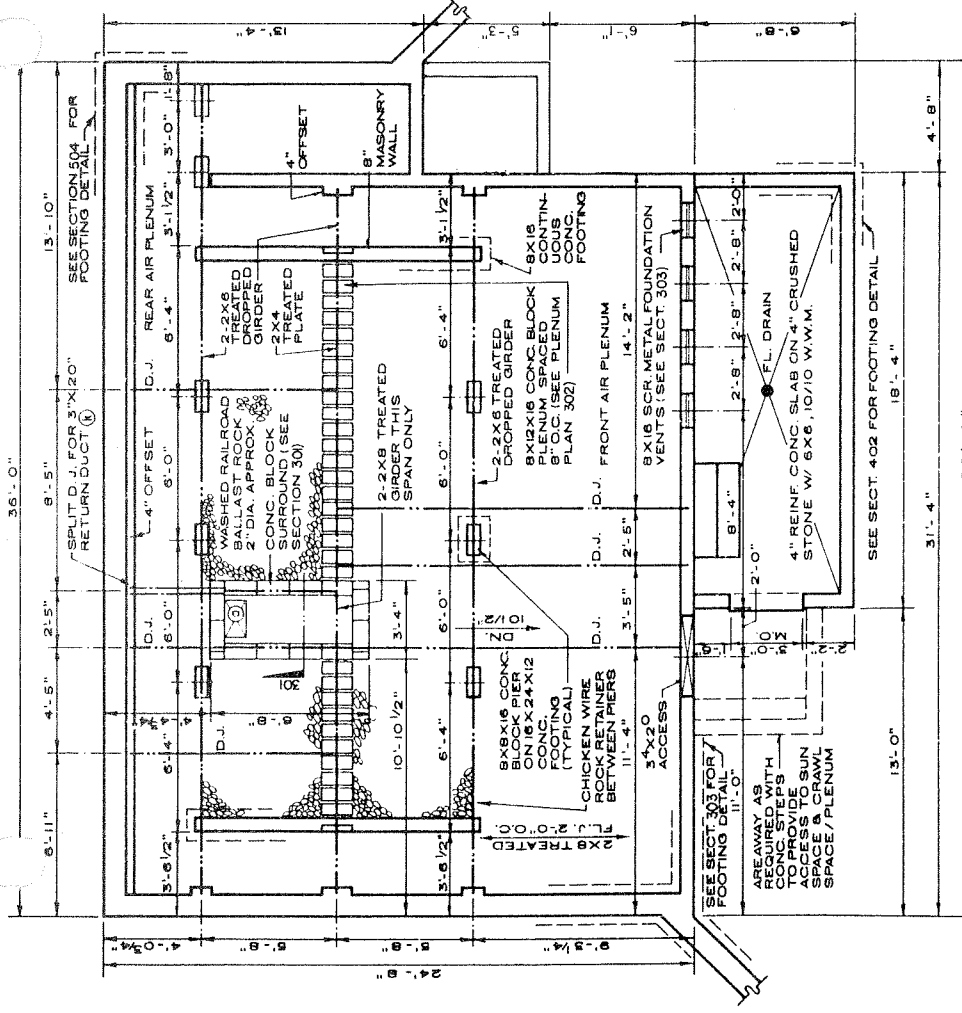
*** ANDERSEN WINDOWS**

NOTE: 2: FINISHES TO EXTERIOR WALLS ARE TO BE MASONRY UNLESS OTHERWISE NOTED. PROVIDE DOUBLE JOIST UNDER ALL LOAD BEARING PARTITIONS PARALLEL TO JOIST DIRECTION.

ABBREVIATIONS AND SYMBOLS

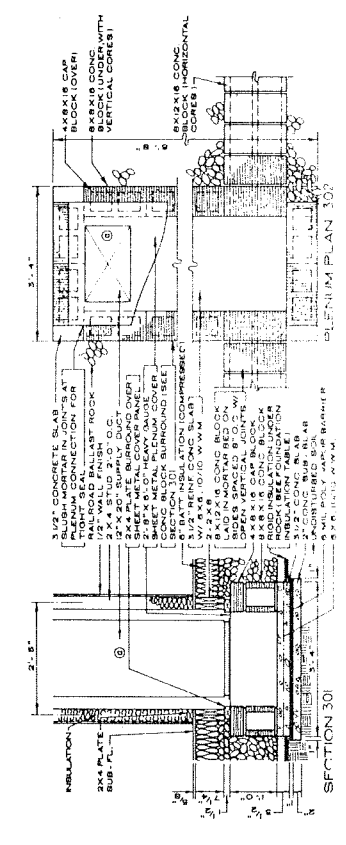
ACC.	ALUMINUM	ACC.	ALUMINUM
AC.	ASBESTOS	ACC.	ALUMINUM
AD.	ADHESIVE	ACC.	ALUMINUM
AG.	AGGREGATE	ACC.	ALUMINUM
AL.	ALUMINUM	ACC.	ALUMINUM
AN.	ANGLER	ACC.	ALUMINUM
AP.	APPLY	ACC.	ALUMINUM
AR.	ARCH	ACC.	ALUMINUM
AS.	ASBESTOS	ACC.	ALUMINUM
AT.	ATTACHMENT	ACC.	ALUMINUM
AU.	AUGER	ACC.	ALUMINUM
AV.	AIR VALVE	ACC.	ALUMINUM
AW.	AIRWAY	ACC.	ALUMINUM
AX.	AXIS	ACC.	ALUMINUM
AY.	AXIS	ACC.	ALUMINUM
AZ.	AXIS	ACC.	ALUMINUM
BA.	BATH	ACC.	ALUMINUM
BB.	BATH	ACC.	ALUMINUM
BC.	BATH	ACC.	ALUMINUM
BD.	BATH	ACC.	ALUMINUM
BE.	BATH	ACC.	ALUMINUM
BF.	BATH	ACC.	ALUMINUM
BG.	BATH	ACC.	ALUMINUM
BH.	BATH	ACC.	ALUMINUM
BI.	BATH	ACC.	ALUMINUM
BJ.	BATH	ACC.	ALUMINUM
BK.	BATH	ACC.	ALUMINUM
BL.	BATH	ACC.	ALUMINUM
BM.	BATH	ACC.	ALUMINUM
BN.	BATH	ACC.	ALUMINUM
BO.	BATH	ACC.	ALUMINUM
BP.	BATH	ACC.	ALUMINUM
BQ.	BATH	ACC.	ALUMINUM
BR.	BATH	ACC.	ALUMINUM
BS.	BATH	ACC.	ALUMINUM
BT.	BATH	ACC.	ALUMINUM
BU.	BATH	ACC.	ALUMINUM
BV.	BATH	ACC.	ALUMINUM
BW.	BATH	ACC.	ALUMINUM
BX.	BATH	ACC.	ALUMINUM
BY.	BATH	ACC.	ALUMINUM
BZ.	BATH	ACC.	ALUMINUM
CA.	CASEMENT	ACC.	ALUMINUM
CB.	CASEMENT	ACC.	ALUMINUM
CC.	CASEMENT	ACC.	ALUMINUM
CD.	CASEMENT	ACC.	ALUMINUM
CE.	CASEMENT	ACC.	ALUMINUM
CF.	CASEMENT	ACC.	ALUMINUM
CG.	CASEMENT	ACC.	ALUMINUM
CH.	CASEMENT	ACC.	ALUMINUM
CI.	CASEMENT	ACC.	ALUMINUM
CJ.	CASEMENT	ACC.	ALUMINUM
CK.	CASEMENT	ACC.	ALUMINUM
CL.	CASEMENT	ACC.	ALUMINUM
CM.	CASEMENT	ACC.	ALUMINUM
CN.	CASEMENT	ACC.	ALUMINUM
CO.	CASEMENT	ACC.	ALUMINUM
CP.	CASEMENT	ACC.	ALUMINUM
CQ.	CASEMENT	ACC.	ALUMINUM
CR.	CASEMENT	ACC.	ALUMINUM
CS.	CASEMENT	ACC.	ALUMINUM
CT.	CASEMENT	ACC.	ALUMINUM
CU.	CASEMENT	ACC.	ALUMINUM
CV.	CASEMENT	ACC.	ALUMINUM
CW.	CASEMENT	ACC.	ALUMINUM
CX.	CASEMENT	ACC.	ALUMINUM
CY.	CASEMENT	ACC.	ALUMINUM
CZ.	CASEMENT	ACC.	ALUMINUM
DA.	DRAINAGE	ACC.	ALUMINUM
DB.	DRAINAGE	ACC.	ALUMINUM
DC.	DRAINAGE	ACC.	ALUMINUM
DD.	DRAINAGE	ACC.	ALUMINUM
DE.	DRAINAGE	ACC.	ALUMINUM
DF.	DRAINAGE	ACC.	ALUMINUM
DG.	DRAINAGE	ACC.	ALUMINUM
DH.	DRAINAGE	ACC.	ALUMINUM
DI.	DRAINAGE	ACC.	ALUMINUM
DJ.	DRAINAGE	ACC.	ALUMINUM
DK.	DRAINAGE	ACC.	ALUMINUM
DL.	DRAINAGE	ACC.	ALUMINUM
DM.	DRAINAGE	ACC.	ALUMINUM
DN.	DRAINAGE	ACC.	ALUMINUM
DO.	DRAINAGE	ACC.	ALUMINUM
DP.	DRAINAGE	ACC.	ALUMINUM
DQ.	DRAINAGE	ACC.	ALUMINUM
DR.	DRAINAGE	ACC.	ALUMINUM
DS.	DRAINAGE	ACC.	ALUMINUM
DT.	DRAINAGE	ACC.	ALUMINUM
DU.	DRAINAGE	ACC.	ALUMINUM
DV.	DRAINAGE	ACC.	ALUMINUM
DW.	DRAINAGE	ACC.	ALUMINUM
DX.	DRAINAGE	ACC.	ALUMINUM
DY.	DRAINAGE	ACC.	ALUMINUM
DZ.	DRAINAGE	ACC.	ALUMINUM
EA.	ENTRY AIRLOCK	ACC.	ALUMINUM
EB.	ENTRY AIRLOCK	ACC.	ALUMINUM
EC.	ENTRY AIRLOCK	ACC.	ALUMINUM
ED.	ENTRY AIRLOCK	ACC.	ALUMINUM
EE.	ENTRY AIRLOCK	ACC.	ALUMINUM
EF.	ENTRY AIRLOCK	ACC.	ALUMINUM
EG.	ENTRY AIRLOCK	ACC.	ALUMINUM
EH.	ENTRY AIRLOCK	ACC.	ALUMINUM
EI.	ENTRY AIRLOCK	ACC.	ALUMINUM
EJ.	ENTRY AIRLOCK	ACC.	ALUMINUM
EK.	ENTRY AIRLOCK	ACC.	ALUMINUM
EL.	ENTRY AIRLOCK	ACC.	ALUMINUM
EM.	ENTRY AIRLOCK	ACC.	ALUMINUM
EN.	ENTRY AIRLOCK	ACC.	ALUMINUM
EO.	ENTRY AIRLOCK	ACC.	ALUMINUM
EP.	ENTRY AIRLOCK	ACC.	ALUMINUM
EQ.	ENTRY AIRLOCK	ACC.	ALUMINUM
ER.	ENTRY AIRLOCK	ACC.	ALUMINUM
ES.	ENTRY AIRLOCK	ACC.	ALUMINUM
ET.	ENTRY AIRLOCK	ACC.	ALUMINUM
EU.	ENTRY AIRLOCK	ACC.	ALUMINUM
EV.	ENTRY AIRLOCK	ACC.	ALUMINUM
EW.	ENTRY AIRLOCK	ACC.	ALUMINUM
EX.	EXTERIOR	ACC.	ALUMINUM
EY.	EXTERIOR	ACC.	ALUMINUM
EZ.	EXTERIOR	ACC.	ALUMINUM
FA.	FLOOR	ACC.	ALUMINUM
FB.	FLOOR	ACC.	ALUMINUM
FC.	FLOOR	ACC.	ALUMINUM
FD.	FLOOR	ACC.	ALUMINUM
FE.	FLOOR	ACC.	ALUMINUM
FF.	FLOOR	ACC.	ALUMINUM
FG.	FLOOR	ACC.	ALUMINUM
FH.	FLOOR	ACC.	ALUMINUM
FI.	FLOOR	ACC.	ALUMINUM
FJ.	FLOOR	ACC.	ALUMINUM
FK.	FLOOR	ACC.	ALUMINUM
FL.	FLOOR	ACC.	ALUMINUM
FM.	FLOOR	ACC.	ALUMINUM
FN.	FLOOR	ACC.	ALUMINUM
FO.	FLOOR	ACC.	ALUMINUM
FP.	FLOOR	ACC.	ALUMINUM
FQ.	FLOOR	ACC.	ALUMINUM
FR.	FLOOR	ACC.	ALUMINUM
FS.	FLOOR	ACC.	ALUMINUM
FT.	FLOOR	ACC.	ALUMINUM
FU.	FLOOR	ACC.	ALUMINUM
FV.	FLOOR	ACC.	ALUMINUM
FW.	FLOOR	ACC.	ALUMINUM
FX.	FLOOR	ACC.	ALUMINUM
FY.	FLOOR	ACC.	ALUMINUM
FZ.	FLOOR	ACC.	ALUMINUM
GA.	GLASS	ACC.	ALUMINUM
GB.	GLASS	ACC.	ALUMINUM
GC.	GLASS	ACC.	ALUMINUM
GD.	GLASS	ACC.	ALUMINUM
GE.	GLASS	ACC.	ALUMINUM
GF.	GLASS	ACC.	ALUMINUM
GG.	GLASS	ACC.	ALUMINUM
GH.	GLASS	ACC.	ALUMINUM
GI.	GLASS	ACC.	ALUMINUM
GJ.	GLASS	ACC.	ALUMINUM
GK.	GLASS	ACC.	ALUMINUM
GL.	GLASS	ACC.	ALUMINUM
GM.	GLASS	ACC.	ALUMINUM
GN.	GLASS	ACC.	ALUMINUM
GO.	GLASS	ACC.	ALUMINUM
GP.	GLASS	ACC.	ALUMINUM
GQ.	GLASS	ACC.	ALUMINUM
GR.	GLASS	ACC.	ALUMINUM
GS.	GLASS	ACC.	ALUMINUM
GT.	GLASS	ACC.	ALUMINUM
GU.	GLASS	ACC.	ALUMINUM
GV.	GLASS	ACC.	ALUMINUM
GW.	GLASS	ACC.	ALUMINUM
GX.	GLASS	ACC.	ALUMINUM
GY.	GLASS	ACC.	ALUMINUM
GZ.	GLASS	ACC.	ALUMINUM
HA.	HANDRAIL	ACC.	ALUMINUM
HB.	HANDRAIL	ACC.	ALUMINUM
HC.	HANDRAIL	ACC.	ALUMINUM
HD.	HANDRAIL	ACC.	ALUMINUM
HE.	HANDRAIL	ACC.	ALUMINUM
HF.	HANDRAIL	ACC.	ALUMINUM
HG.	HANDRAIL	ACC.	ALUMINUM
HH.	HANDRAIL	ACC.	ALUMINUM
HI.	HANDRAIL	ACC.	ALUMINUM
HJ.	HANDRAIL	ACC.	ALUMINUM
HK.	HANDRAIL	ACC.	ALUMINUM
HL.	HANDRAIL	ACC.	ALUMINUM
HM.	HANDRAIL	ACC.	ALUMINUM
HN.	HANDRAIL	ACC.	ALUMINUM
HO.	HANDRAIL	ACC.	ALUMINUM
HP.	HANDRAIL	ACC.	ALUMINUM
HQ.	HANDRAIL	ACC.	ALUMINUM
HR.	HANDRAIL	ACC.	ALUMINUM
HS.	HANDRAIL	ACC.	ALUMINUM
HT.	HANDRAIL	ACC.	ALUMINUM
HU.	HANDRAIL	ACC.	ALUMINUM
HV.	HANDRAIL	ACC.	ALUMINUM
HW.	HANDRAIL	ACC.	ALUMINUM
HX.	HANDRAIL	ACC.	ALUMINUM
HY.	HANDRAIL	ACC.	ALUMINUM
HZ.	HANDRAIL	ACC.	ALUMINUM
IA.	INSULATION	ACC.	ALUMINUM
IB.	INSULATION	ACC.	ALUMINUM
IC.	INSULATION	ACC.	ALUMINUM
ID.	INSULATION	ACC.	ALUMINUM
IE.	INSULATION	ACC.	ALUMINUM
IF.	INSULATION	ACC.	ALUMINUM
IG.	INSULATION	ACC.	ALUMINUM
IH.	INSULATION	ACC.	ALUMINUM
II.	INSULATION	ACC.	ALUMINUM
IJ.	INSULATION	ACC.	ALUMINUM
IK.	INSULATION	ACC.	ALUMINUM
IL.	INSULATION	ACC.	ALUMINUM
IM.	INSULATION	ACC.	ALUMINUM
IN.	INSULATION	ACC.	ALUMINUM
IO.	INSULATION	ACC.	ALUMINUM
IP.	INSULATION	ACC.	ALUMINUM
IQ.	INSULATION	ACC.	ALUMINUM
IR.	INSULATION	ACC.	ALUMINUM
IS.	INSULATION	ACC.	ALUMINUM
IT.	INSULATION	ACC.	ALUMINUM
IU.	INSULATION	ACC.	ALUMINUM
IV.	INSULATION	ACC.	ALUMINUM
IW.	INSULATION	ACC.	ALUMINUM
IX.	INSULATION	ACC.	ALUMINUM
IY.	INSULATION	ACC.	ALUMINUM
IZ.	INSULATION	ACC.	ALUMINUM
JA.	JAMB	ACC.	ALUMINUM
JB.	JAMB	ACC.	ALUMINUM
JC.	JAMB	ACC.	ALUMINUM
JD.	JAMB	ACC.	ALUMINUM
JE.	JAMB	ACC.	ALUMINUM
JF.	JAMB	ACC.	ALUMINUM
JG.	JAMB	ACC.	ALUMINUM
JH.	JAMB	ACC.	ALUMINUM
JI.	JAMB	ACC.	ALUMINUM
JJ.	JAMB	ACC.	ALUMINUM
JK.	JAMB	ACC.	ALUMINUM
JL.	JAMB	ACC.	ALUMINUM
JM.	JAMB	ACC.	ALUMINUM
JN.	JAMB	ACC.	ALUMINUM
JO.	JAMB	ACC.	ALUMINUM
JP.	JAMB	ACC.	ALUMINUM
JQ.	JAMB	ACC.	ALUMINUM
JR.	JAMB	ACC.	ALUMINUM
JS.	JAMB	ACC.	ALUMINUM
JT.	JAMB	ACC.	ALUMINUM
JU.	JAMB	ACC.	ALUMINUM
JV.	JAMB	ACC.	ALUMINUM
JW.	JAMB	ACC.	ALUMINUM
JX.	JAMB	ACC.	ALUMINUM
JY.	JAMB	ACC.	ALUMINUM
JZ.	JAMB	ACC.	ALUMINUM
KA.	KITCHEN	ACC.	ALUMINUM
KB.	KITCHEN	ACC.	ALUMINUM
KC.	KITCHEN	ACC.	ALUMINUM
KD.	KITCHEN	ACC.	ALUMINUM
KE.	KITCHEN	ACC.	ALUMINUM
KF.	KITCHEN	ACC.	ALUMINUM
KG.	KITCHEN	ACC.	ALUMINUM
KH.	KITCHEN	ACC.	ALUMINUM
KI.	KITCHEN	ACC.	ALUMINUM
KJ.	KITCHEN	ACC.	ALUMINUM
KK.	KITCHEN	ACC.	ALUMINUM
KL.	KITCHEN	ACC.	ALUMINUM
KM.	KITCHEN	ACC.	ALUMINUM
KN.	KITCHEN	ACC.	ALUMINUM
KO.	KITCHEN	ACC.	ALUMINUM
KP.	KITCHEN	ACC.	ALUMINUM
KQ.	KITCHEN	ACC.	ALUMINUM
KR.	KITCHEN	ACC.	ALUMINUM
KS.	KITCHEN	ACC.	ALUMINUM
KT.	KITCHEN	ACC.	ALUMINUM
KU.	KITCHEN	ACC.	ALUMINUM
KV.	KITCHEN	ACC.	ALUMINUM
KW.	KITCHEN	ACC.	ALUMINUM
KX.	KITCHEN	ACC.	ALUMINUM
KY.	KITCHEN	ACC.	ALUMINUM
KZ.	KITCHEN	ACC.	ALUMINUM
LA.	LIVING ROOM	ACC.	ALUMINUM
LB.	LIVING ROOM	ACC.	ALUMINUM
LC.	LIVING ROOM	ACC.	ALUMINUM
LD.	LIVING ROOM	ACC.	ALUMINUM
LE.	LIVING ROOM	ACC.	ALUMINUM
LF.	LIVING ROOM	ACC.	ALUMINUM
LG.	LIVING ROOM	ACC.	ALUMINUM
LH.	LIVING ROOM	ACC.	ALUMINUM
LI.	LIVING ROOM	ACC.	ALUMINUM
LJ.	LIVING ROOM	ACC.	ALUMINUM
LK.	LIVING ROOM	ACC.	ALUMINUM
LL.	LIVING ROOM	ACC.	ALUMINUM
LM.	LIVING ROOM	ACC.	ALUMINUM
LN.	LIVING ROOM	ACC.	ALUMINUM
LO.	LIVING ROOM	ACC.	ALUMINUM
LP.	LIVING ROOM	ACC.	ALUMINUM
LQ.	L		

- SCHEDULE**
- 6/12" X 20" SUPPLY DUCT TO ROCK STORAGE
 - 6/12" X 20" RETURN DUCT FROM SUN SPACE
 - 6/12" X 20" VENTILATION DUCT CONNECTING EAVE VENT TO COLLECTOR SPACE
 - 6/ BLOWER
 - 6/ FURNACE
 - 1/16" X 8" SCREENED EAVE VENT, 6'-0" O.C. TYPICAL
 - 9/2" CONTINUOUS AIR SLOT IN COLLECTOR SPACE FOR AIR SUPPLY TO COLLECTOR SPACE
 - 1/8" X 20" FURNACE PLENUM
 - 1/8" X 20" FURNACE PLENUM
 - 1/4" X 20" RETURN DUCT FROM REAR AIR PLENUM
 - 1/4" X 20" RETURN DUCT FROM FRONT AIR PLENUM
 - 1/4" X 20" RETURN DUCT FROM REAR AIR PLENUM
 - 1/4" X 20" RETURN DUCT FROM FRONT AIR PLENUM
 - 1/4" X 20" FLOOR REGISTER RETURN TO AIR PLENUMS
 - 9/8" X 20" THERMOSTATICALLY CONTROLLED COLLECTOR SPACE OR EAVE VENTS WITH MOTOR ACTUATED DAMPER (SPRING OPEN, POWER CLOSE)

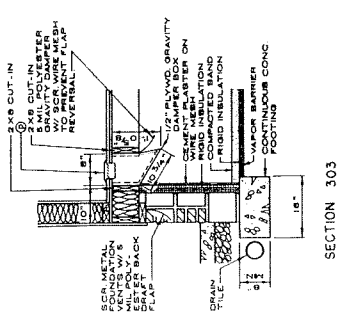


FOUNDATION PLAN

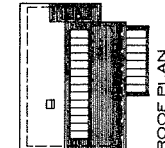
NOTE:
AIR PLENUM/CRAWL SPACE IS EXCAVATED 10 1/2" DEEPER THAN ROCK STORAGE AREA. SEE SECT. 501 & 504



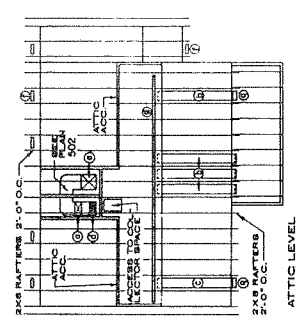
SECTION 301



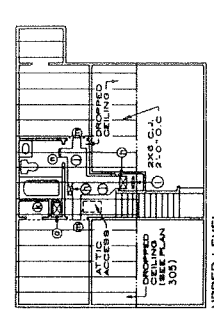
SECTION 303



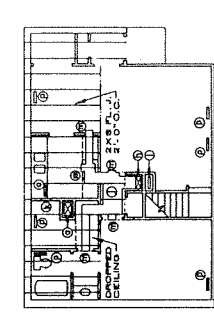
ROOF PLAN



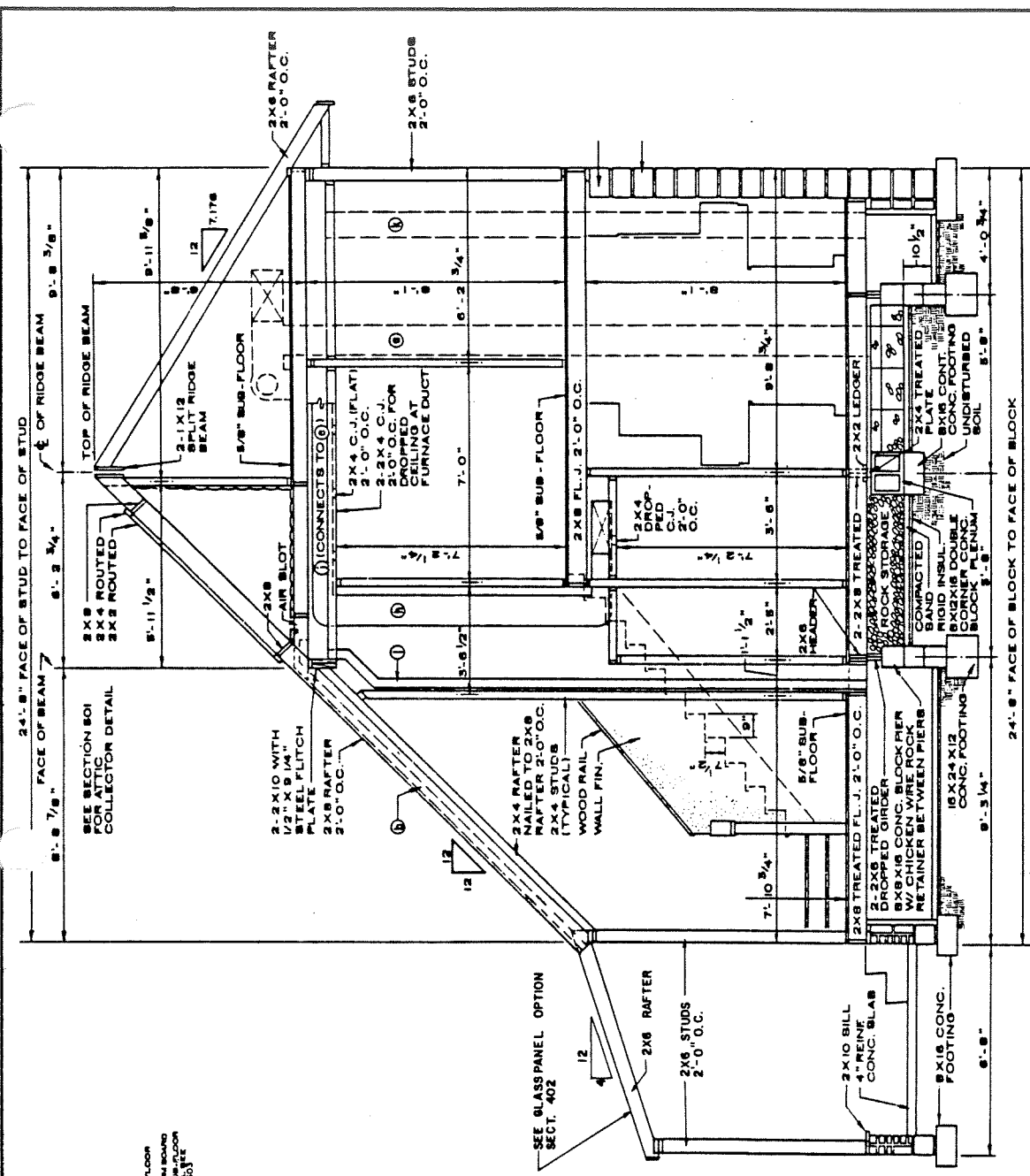
UPPER LEVEL



LOWER LEVEL

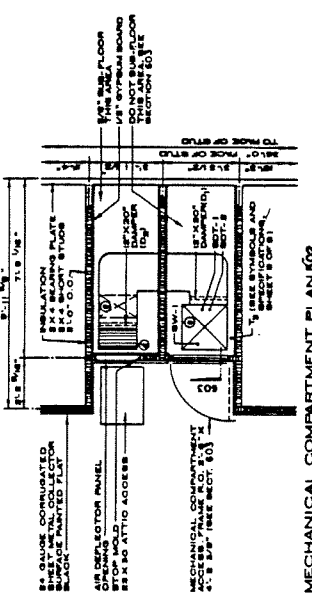
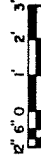


LOWER ATTIC PLENUM PLAN 305

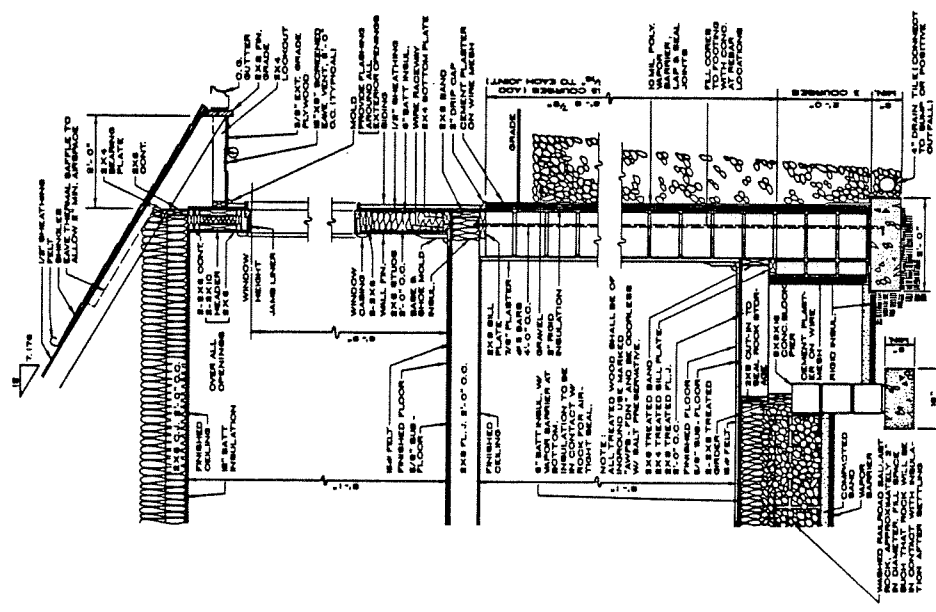


TRANSVERSE SECTION 501

NOTE: ALL JOINTS BETWEEN FOUNDATION WALL, BILL, BAND & FLOOR JOIST TO PREVENT AIR INFILTRATION INTO CRAWL SPACE / PLENUM AREA.



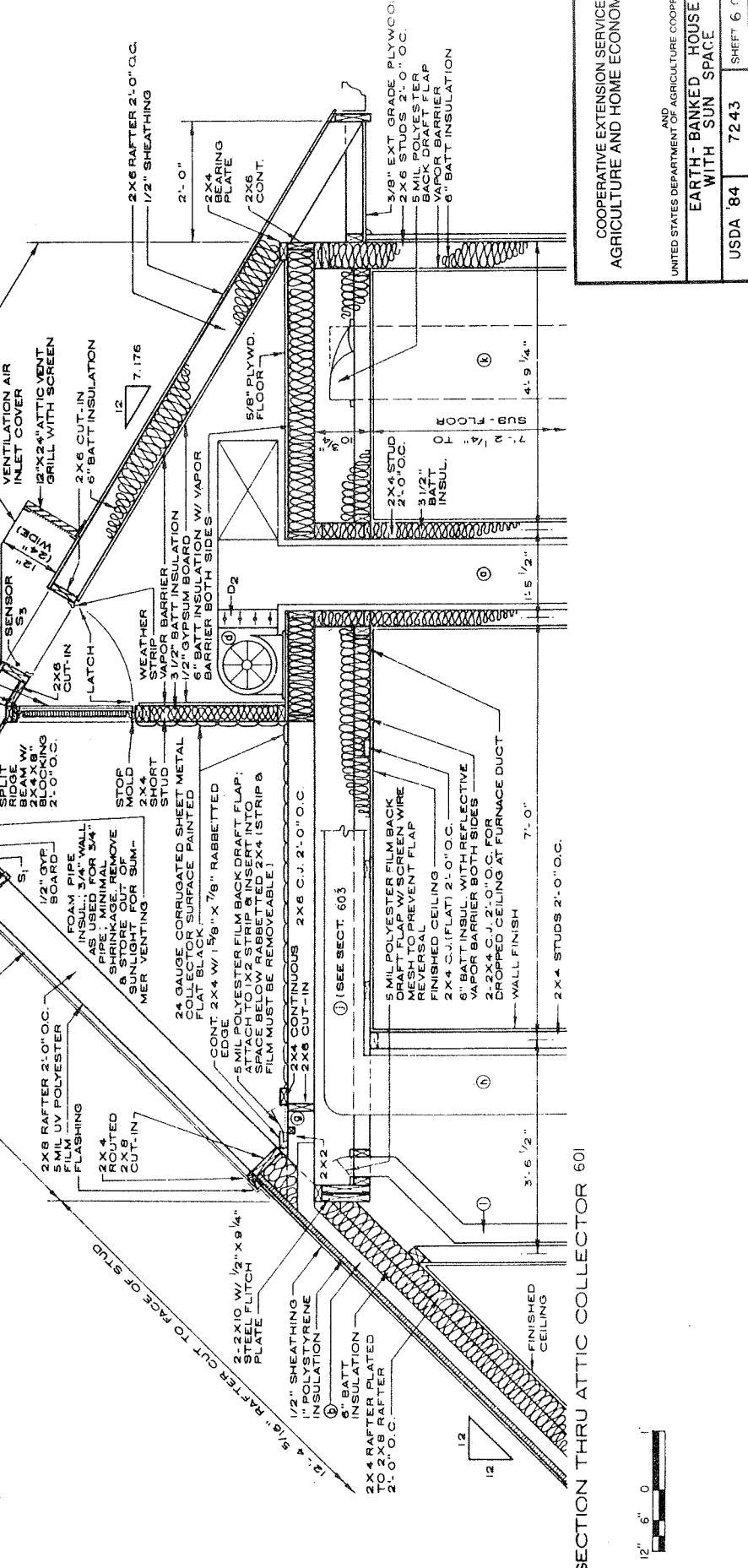
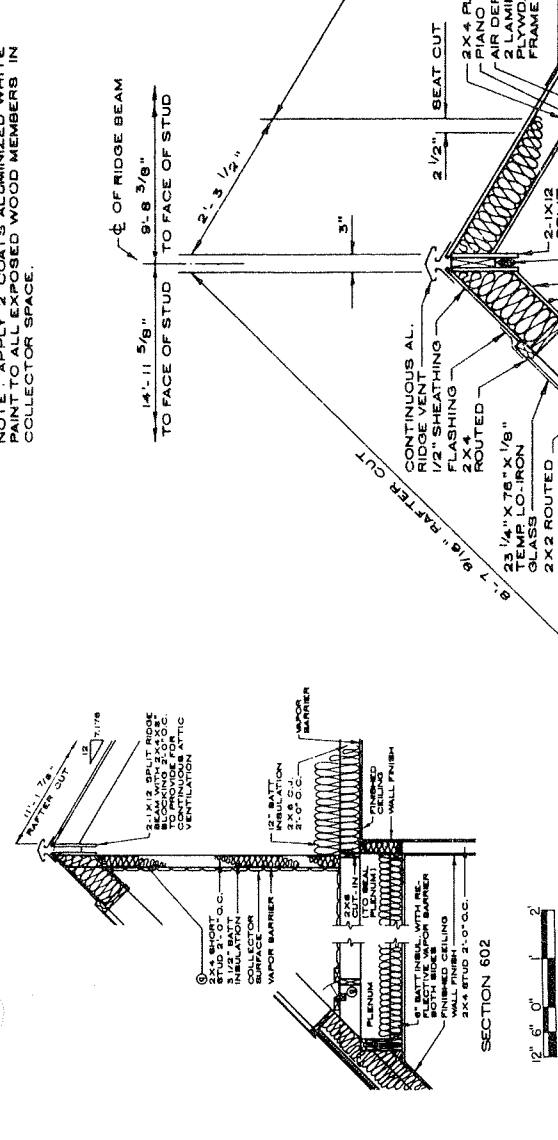
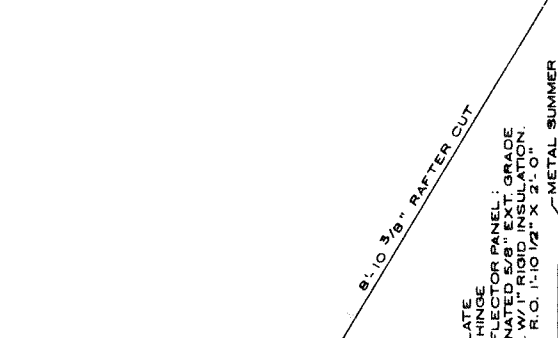
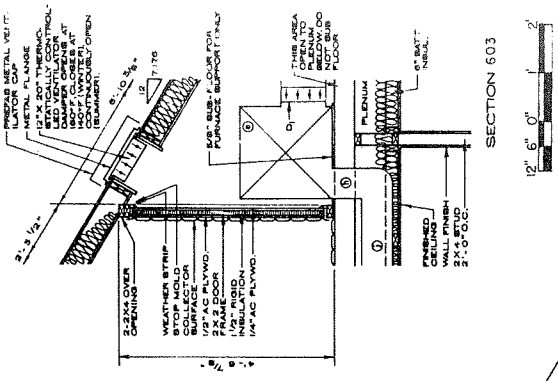
MECHANICAL COMPARTMENT PLAN 602



SECTION THRU REAR WALL 804



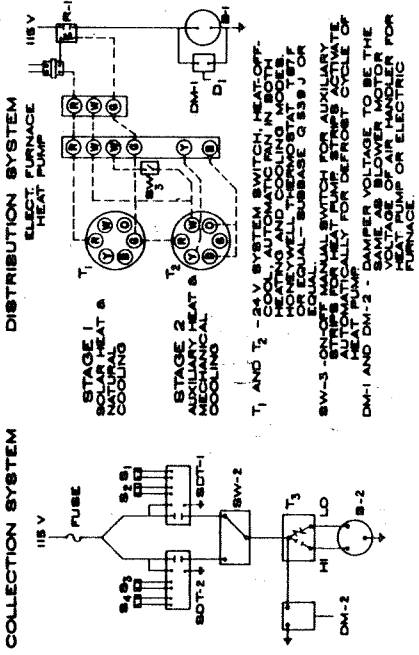
NOTE: APPLY 2 COATS ALUMINIZED WHITE PAINT TO ALL EXPOSED WOOD MEMBERS IN COLLECTOR SPACE.



SECTION THRU ATTIC COLLECTOR 601



WIRING DIAGRAM



COLLECTION SYSTEM

115 V FUSE SW-1 DM-1

DISTRIBUTION SYSTEM

115 V SW-2 DM-2

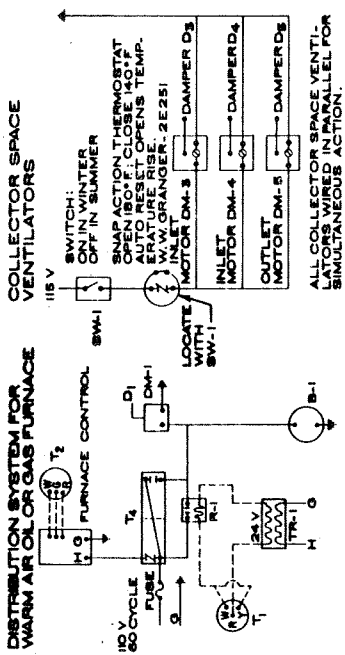
STAGE 1 NATURAL HEAT & COOLING

STAGE 2 HEAT & MECHANICAL COOLING

T₁ AND T₂ 24V SYSTEM SWITCH, HEAT-OFF, COOL, AUTO-RUN IN BOTH HEATING AND COOLING MODES OR EQUAL SUBBASE Q 839 J OR EQUAL

SW-3 ON-OFF MANUAL SWITCH FOR AUXILIARY HEAT PUMP, AUTOMATICALLY FOR DEFROST CYCLE OF HEAT PUMP

DM-1 AND DM-2 - DAMPER VOLTAGE TO BE THE SAME AS BLOWER MOTOR VOLTAGE OF AIR HANDLER FOR FURNACE.



DISTRIBUTION SYSTEM FOR WARM AIR OR GAS FURNACE

115 V SW-1 DM-1 B-1

SW-1 SWITCH, HEAT-OFF, COOL, AUTO-RUN IN BOTH HEATING AND COOLING MODES OR EQUAL SUBBASE Q 839 J OR EQUAL

DM-1 DAMPER VOLTAGE TO BE THE SAME AS BLOWER MOTOR VOLTAGE OF AIR HANDLER FOR FURNACE

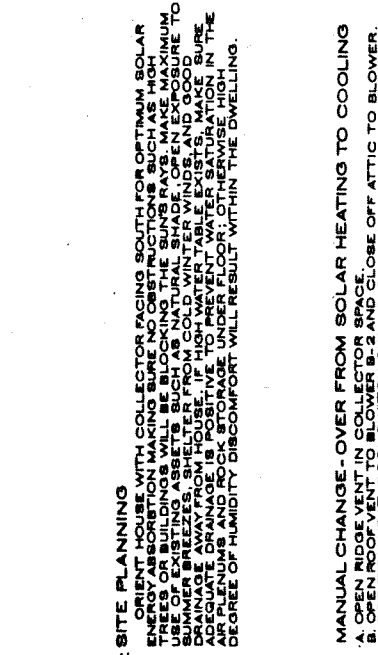
B-1 FURNACE BLOWER - 115 V 60 CYCLE, ONE CFM/FT² OF FLOOR AREA AT 1/2 INCHES WATER COLUMN AT 100°F AIR TEMPERATURE. SUGGEST PERMANENT SPLIT CAPACITOR MOTOR.

SW-1 SWITCH SPST RATED 1/2 HP AT 115 V

SW-2 HEAT-COOL SWITCH, SPDT, RATED 1/2 HP AT 115 V

SW-3 SWITCH, SPST 24 V FOR CONTROL CIRCUIT

TR-1 24 V TRANSFORMER



COLLECTOR SPACE VENTILATORS

115 V SW-1 DM-1 B-1

SW-1 SWITCH, HEAT-OFF, COOL, AUTO-RUN IN BOTH HEATING AND COOLING MODES OR EQUAL SUBBASE Q 839 J OR EQUAL

DM-1 DAMPER VOLTAGE TO BE THE SAME AS BLOWER MOTOR VOLTAGE OF AIR HANDLER FOR FURNACE

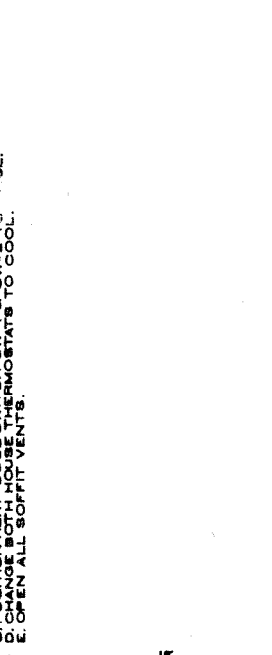
B-1 FURNACE BLOWER - 115 V 60 CYCLE, ONE CFM/FT² OF FLOOR AREA AT 1/2 INCHES WATER COLUMN AT 100°F AIR TEMPERATURE. SUGGEST PERMANENT SPLIT CAPACITOR MOTOR.

SW-1 SWITCH SPST RATED 1/2 HP AT 115 V

SW-2 HEAT-COOL SWITCH, SPDT, RATED 1/2 HP AT 115 V

SW-3 SWITCH, SPST 24 V FOR CONTROL CIRCUIT

TR-1 24 V TRANSFORMER



HEATING: ATTIC & SUN SPACE TO HOUSE, OUTSIDE AIR TO STORAGE (OPTIONAL)

HEATING: ATTIC & SUN SPACE TO HOUSE, OUTSIDE AIR TO HOUSE (OPTIONAL)

HEATING: STORAGE TO HOUSE, CONVENTIONAL FORCED AIR HEATING COOLING FROM SUN SPACE, CONVENTIONAL FORCED AIR COOLING

115 V SW-1 DM-1 B-1

SW-1 SWITCH, HEAT-OFF, COOL, AUTO-RUN IN BOTH HEATING AND COOLING MODES OR EQUAL SUBBASE Q 839 J OR EQUAL

DM-1 DAMPER VOLTAGE TO BE THE SAME AS BLOWER MOTOR VOLTAGE OF AIR HANDLER FOR FURNACE

B-1 FURNACE BLOWER - 115 V 60 CYCLE, ONE CFM/FT² OF FLOOR AREA AT 1/2 INCHES WATER COLUMN AT 100°F AIR TEMPERATURE. SUGGEST PERMANENT SPLIT CAPACITOR MOTOR.

BOILERS AND SPECIFICATIONS

T₁ T₂ T₃

24 V HEATING AND COOLING THERMOSTATS. HEAT-OFF, COOL SELECTION.

HONEYWELL - T97F AND Q53A SUBBASE

DAYTON - 2E086 AND 2E181 SUBBASE

PENNY CONTROLS - T-81AC-1 AND Y-81CGL-1 SUBBASE

WHITE ROGERS - 1P 36-910 AND 820-1 SUBBASE

T₃ TWO-SPEED BLOWER THERMOSTAT. SPDT LINE VOLTAGE. RATED 1/2 HP. SET FOR 100°F. 2 TO 7 DIFFERENTIAL. AMBIENT TEMPERATURE RANGE, 0 TO 180°F.

PENNY CONTROLS - AIRBAC-1

HONEYWELL - T8XC103A

T₄ FAN AND LIMIT CONTROL SUPPLIED WITH FURNACE. USE FURNACE MANUFACTURER'S SUGGESTED SETTINGS.

DM-1 SPRING RETURN DAMPER MOTOR, TWO POSITION, OPEN-CLOSE. POWER OPEN, SPRING RETURN. 115 V CONTROL VOLTAGE.

DM-2

DM-3

DM-4

DM-5

D₁ BARBER COLMAN - MA-405

D₂ HONEYWELL - M33G1116

D₃ PENNY CONTROLS - M511AC-1 AND 24 V TRANSFORMER

D₄ DAMPERS (SEE AIR FLOW DIAGRAMS). LOW LEAK QUALITY SPECIFY END AND BLADE SEALS, FULL OPEN AND FULL CLOSED USE.

D₅ AMERICAN WARNING AND VENTILATING - DAA-P-10

D₆ LOWERS AND DAMPERS, INC. - CD-500

D₇ DOBAIN ENGINEERING CORPORATION

D₈ HONEYWELL CONTROL CORPORATION

D₉ HONEYWELL CONTROL CORPORATION

JOHNSON SERVICE CO. - D-1300

SOT-1 DIFFERENTIAL THERMOSTAT AND SENSORS FOR WINTER SOLAR HEATING. SPECIFY 1 1/2" TURN-ON DIFFERENTIAL AND 5:1 P:R TURN-OFF DIFFERENTIAL. RATED 1/2 HP 115 V.

S₂

SOT-2 DIFFERENTIAL THERMOSTAT AND SENSORS FOR SUMMER NOCTURNAL COOLING. SPECIFY 1 1/2" TURN-ON DIFFERENTIAL AND 5:1 P:R TURN-OFF DIFFERENTIAL. RATED 1/2 HP 115 V. (OPTIONAL, PRIMARILY FOR DRY CLIMATE AREAS.)

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B-2 SOLAR ENERGY RESEARCH CORPORATION

RHO SIGMA

HELO & ROPE GENERAL

DEKOLASS

SOLAR CONTROL CORPORATION

B-2 COLLECTION BLOWER - 115 V 60 CYCLE MULTI-OR TWO-SPEED. PERMANENT SPLIT CAPACITOR MOTOR. THESE ARE 50% TO 50% EFFICIENT. BLOWER OUTPUT SHOULD BE 2 TO 3 CFM/FT² OF COLLECTOR SURFACE AT 3/8 INCHES WATER COLUMN AT 100°F AIR TEMPERATURE. REVERSE BLOWER OUTPUT SHOULD BE 4 TO 5 CFM/FT² OF COLLECTOR SURFACE AT 5/8 INCHES WATER COLUMN AT 100°F AIR TEMPERATURE. SIMILAR TO DAYTON 4 C088

B-1 FURNACE BLOWER - 115 V 60 CYCLE, ONE CFM/FT² OF FLOOR AREA AT 1/2 INCHES WATER COLUMN AT 100°F AIR TEMPERATURE. SUGGEST PERMANENT SPLIT CAPACITOR MOTOR.

SW-1 SWITCH SPST RATED 1/2 HP AT 115 V

SW-2 HEAT-COOL SWITCH, SPDT, RATED 1/2 HP AT 115 V

SW-3 SWITCH, SPST 24 V FOR CONTROL CIRCUIT

TR-1 24 V TRANSFORMER

OPERATIONS

NOTE: MENTION OF PROPRIETARY ITEMS DOES NOT IMPLY ANY GUARANTEE SITE PLANNING OR WARRANTY, AND IS NOT INTENDED TO EXCLUDE OTHER SUITABLE PRODUCTS.

1. TWO STANDARD HEAT-COOL THERMOSTATS LOCATED IN HALLWAY

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COOPERATIVE EXTENSION SERVICE

AGRICULTURE AND HOME ECONOMICS

UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

EARTH-BANKED HOUSE

WITH SUN SPACE

USDA '84 7243 SHEET 7 OF 7

AIR FLOW FOR SIX OPERATING MODES AND CONTROL LOCATIONS