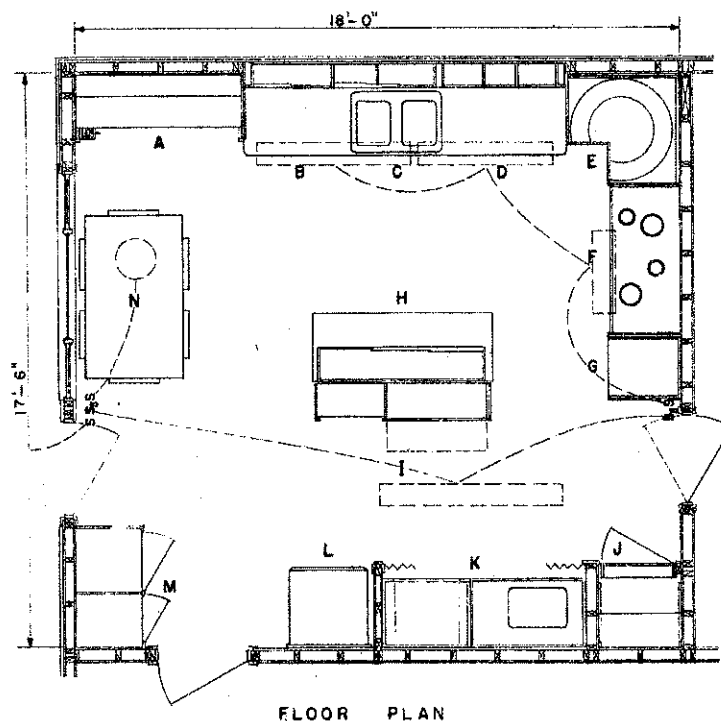


**J. CLOSET FOR CANNED GOODS**

**L. FREEZER**

**K. LAUNDRY UNIT**

1. Sink
2. Laundry cart space
3. Shelves for flower containers and laundry supplies
4. Automatic washer-dryer
5. Ventilatted drawer for miscellaneous storage

**M. UTILITY CLOSET**

1. Vacuum cleaner, broom, mop and cleaning supplies
2. Ironing board, iron and miscellaneous supplies

**N. TABLE & SIX CHAIRS**

**NOTE:**  
Construction shown for house walls on these drawings is typical and not a part of the kitchen design.

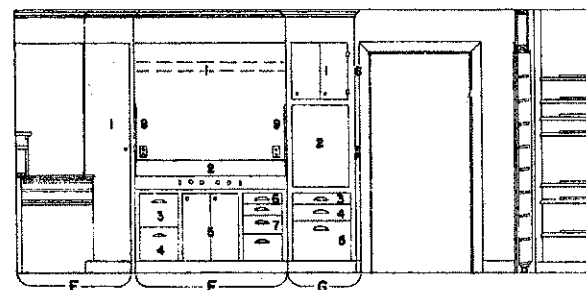
Scale:  $\frac{1}{8}$ " = 1'-0"

**A. DISH STORAGE**

1. Pull out shelf for seldom used table appliances
2. Pull out shelf-frequently used appliances
- 3,4. Pull out shelves for table linen
5. Pull out shelf for platters and trays
6. Silver drawer
7. Adjustable shelves for dish storage
8. Air conditioner

**B. DISHWASHER AND VEGETABLE PREPARATION UNIT**

1. Kitchen first aid supplies
2. Tip out vegetable bins
3. Metal drawers for bread and pastries
4. Partitioned drawer-seldom used platters and trays
5. Perforated board-saucepans and lids
6. Dishwasher



**E. CEILING HEIGHT REVOLVING CABINET**

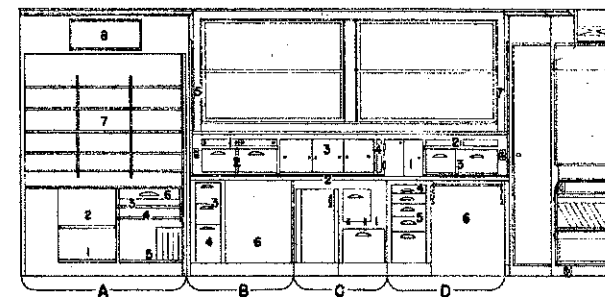
1. Supplies and utensils used at mix and range

**F. RANGE UNIT**

1. Ventilating hood
2. Surface units
3. Partitioned drawer for pan lids
4. Partitioned drawer for infrequently used baking pans
5. Pull out shelves
6. Drawer for tools used at range
7. Miscellaneous storage
- 8,9. Perforated board for saucepans, frypans, lids and small tools

**G. OVEN UNIT**

1. Cabinet with hinged door for serving dishes
2. Wall oven
- 3,4. Drawers for broiler pan or other oven equipment
5. Partitioned drawer for paper socks and tall bottles
6. Compartment for storage of large platters

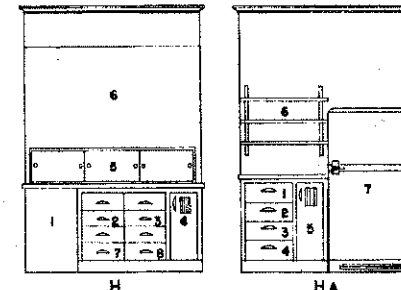


**C. SINK UNIT**

1. Trash chute and removable container
2. Double bowl sink-knee space under left bowl
3. Sliding door compartment-detergents, can opener and paper towels
4. Knife rack

**D. MIX CENTER**

1. Mixer compartment
2. Wax paper, aluminum foil
3. Sugar and flour bins
4. Shallow drawer-tools used at mix and sink
5. Miscellaneous storage
6. Sit-down space and stool
7. Perforated board for mix tools

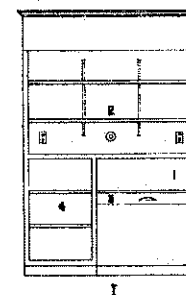


**H. REFRIGERATOR UNIT**

1. Serving cart space
- 2,3. Drawers for kitchen linens, refig. dishes
4. Pull out towel rods
5. Sliding door cabinet for serving dishes and electrical appliances
6. Wall refrigerator
- 7,8. Seldom used supplies

**HA. ALT. REFRIGERATOR UNIT**

- 1,2,3,4. Drawers for kitchen linens and supplies
5. Pull out towel rods
6. Open shelves or wall cabinet for refrigerator dishes
7. Refrigerator



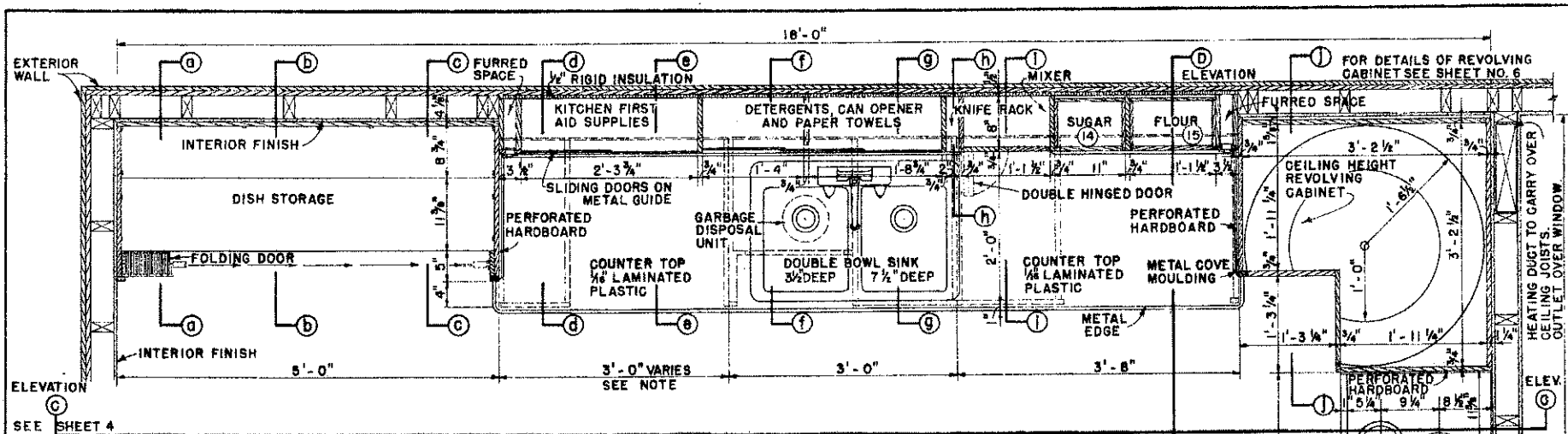
**I. PLANNING UNIT**

1. Drop down desk
2. Shelves for telephone, books, and household accounts
3. Drawer
4. Children's toys and books

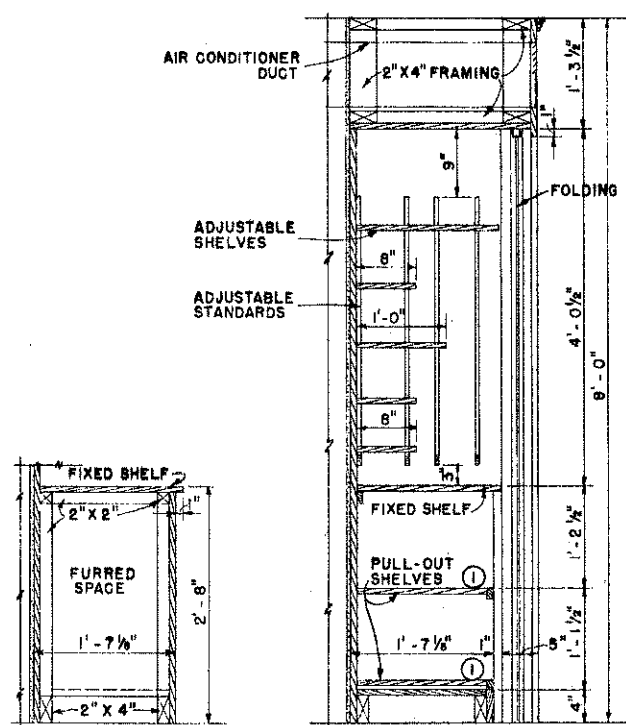
**NOTE:**

Numbers noted on elevations of this sheet do not refer to numbers on subsequent sheets

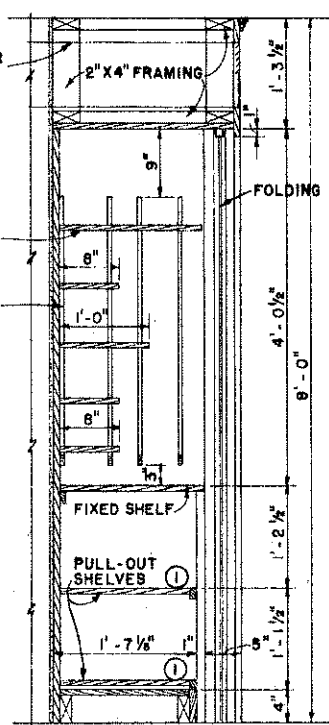
|                                                                                                                                                            |               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| COOPERATIVE EXTENSION WORK IN<br>AGRICULTURE AND HOME ECONOMICS                                                                                            |               |
| STATE OF NORTH DAKOTA<br>NORTH DAKOTA STATE UNIVERSITY<br>OF AGRICULTURE AND APPLIED SCIENCE<br>AND<br>UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING |               |
| BELTSVILLE ENERGY-SAVING KITCHEN<br>DESIGN I WITH WORKROOM                                                                                                 |               |
| USDA '56 EX. 7103                                                                                                                                          | SHEET 1 OF 11 |
| DESIGNED BY CLOTHING & HOUSING<br>RESEARCH BRANCH, ARS, USDA                                                                                               |               |



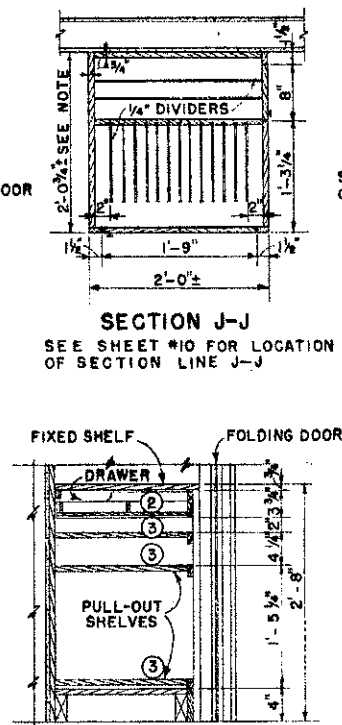
**PLAN A-A (FOOD PREPARATION & COOKING)**  
SEE SHEETS 4 & 5 FOR LOCATION OF SECTION LINES



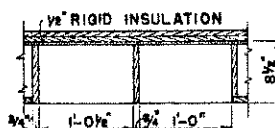
**SECTION a-a**



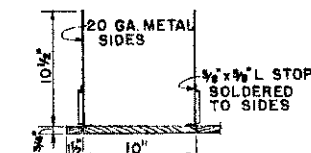
**SECTION b-b  
DISH STORAGE UNIT**



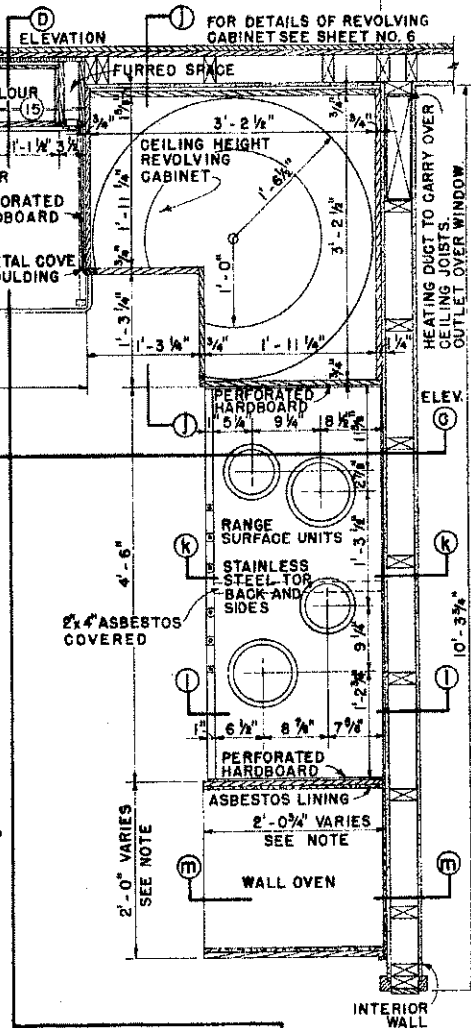
**SECTION c-c**



**SECTION H-H**  
SEE SHEET #4 FOR LOCATION  
OF SECTION LINES H-H & I-I



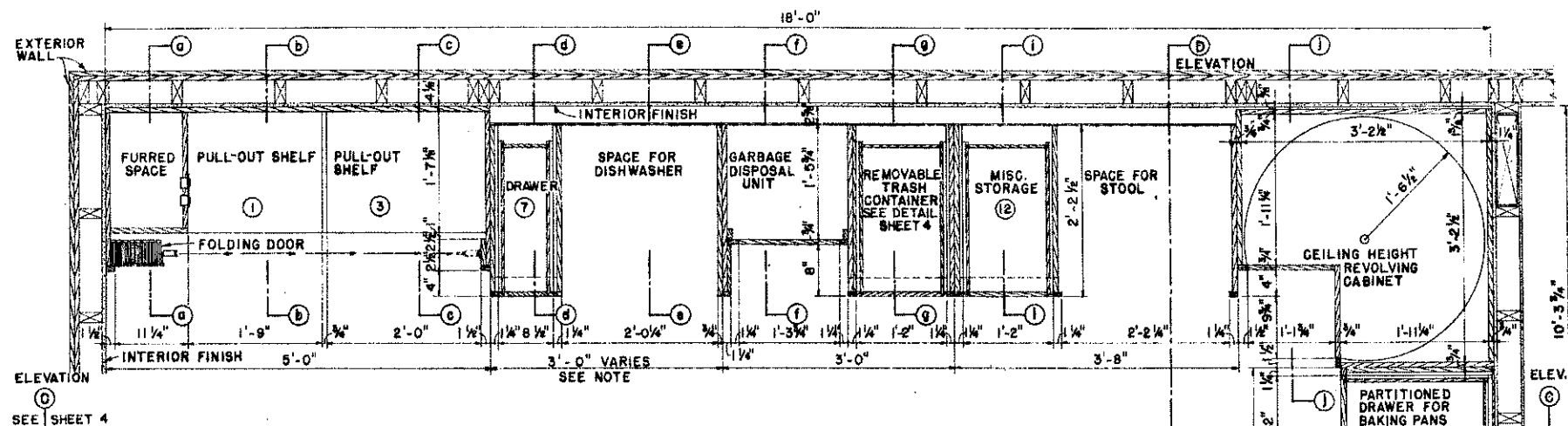
**SECTION I-I**



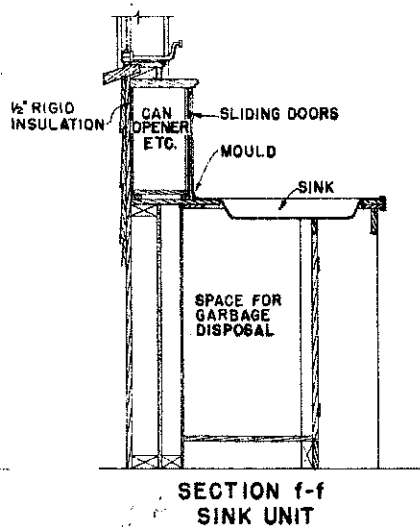
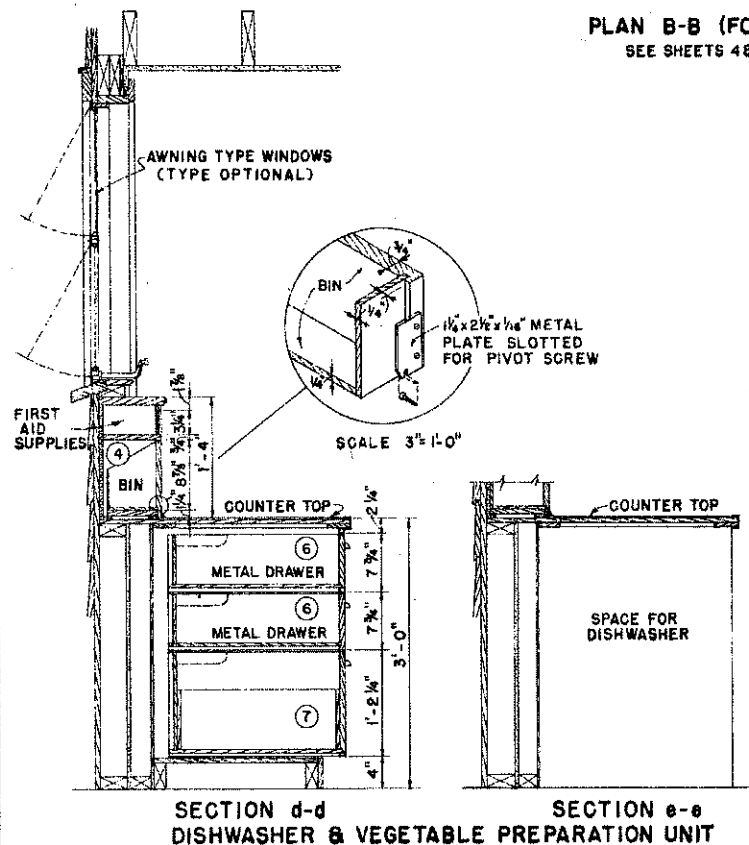
**ELEVATION  
SEE SHEET 5**

**NOTE:**  
ADJUST TO SUIT SIZE OF EQUIPMENT  
SELECTED.  
SCALE: 1" = 1'-0" EXCEPT WHERE  
OTHERWISE NOTED.

COOPERATIVE EXTENSION WORK IN  
AGRICULTURE AND HOME ECONOMICS  
STATE OF NORTH DAKOTA  
NORTH DAKOTA STATE UNIVERSITY  
OF AGRICULTURE AND APPLIED SCIENCE  
AND  
UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING  
**BELTSVILLE ENERGY-SAVING KITCHEN**  
DESIGN I WITH WORKROOM  
USDA '56 EX. 7103 SHEET 2 OF 11  
DESIGNED BY CLOTHING & HOUSING  
RESEARCH BRANCH, ARS, USDA



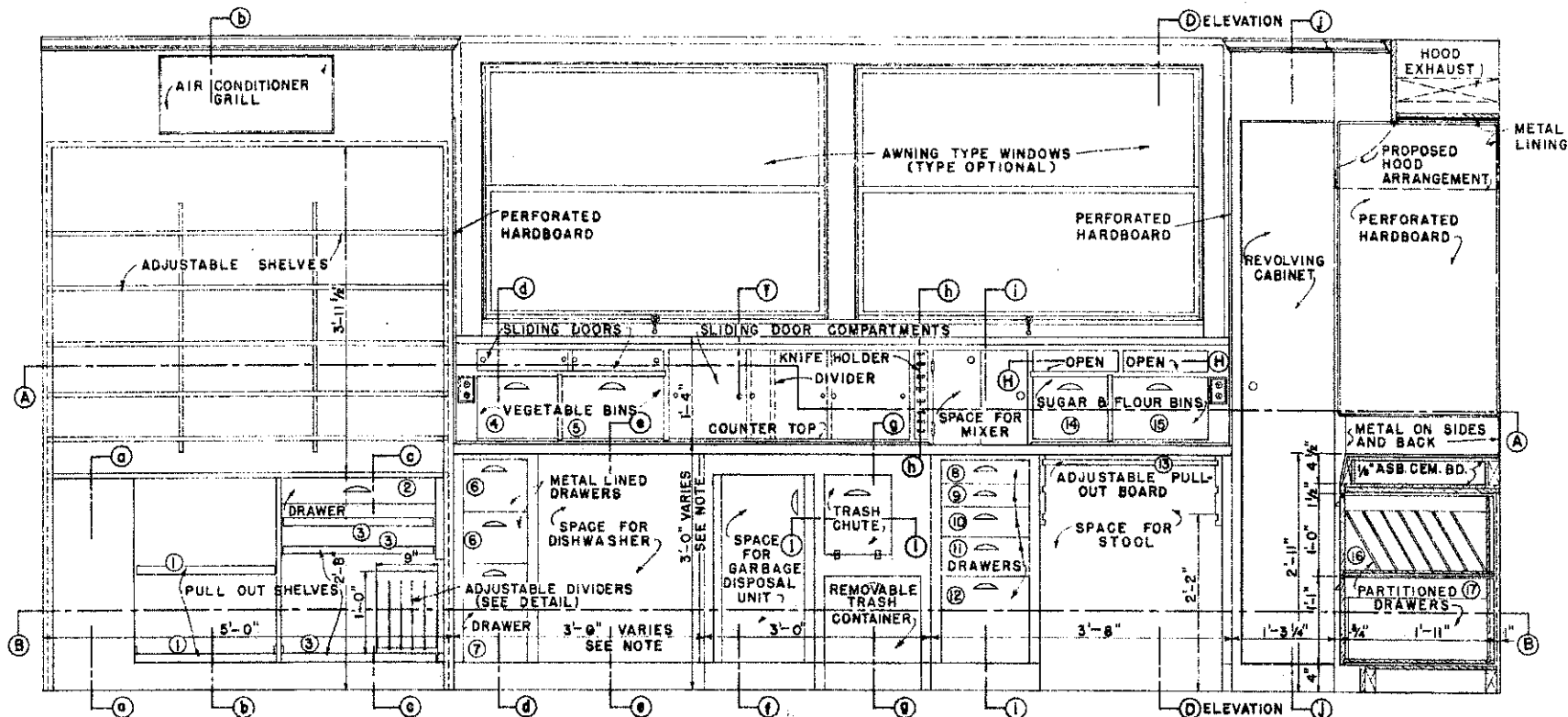
**PLAN B-B (FOOD PREPARATION & COOKING)**  
SEE SHEETS 4 & 5 FOR LOCATION OF SECTION LINES



SCALE: 1" = 1'-0" EXCEPT WHERE OTHERWISE NOTED

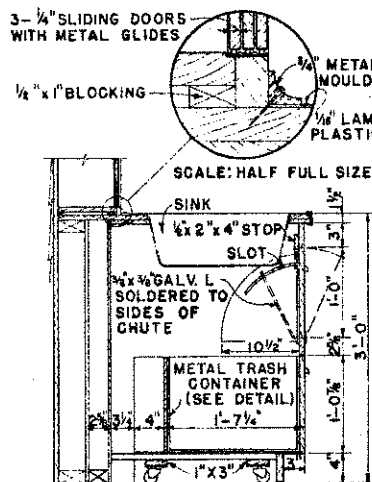
NOTE:  
ADJUST TO SUIT SIZE OF EQUIPMENT

|                                                                                                                                                                                                                               |     |          |               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------|---------------|
| COOPERATIVE EXTENSION WORK IN<br>AGRICULTURE AND HOME ECONOMICS<br>STATE OF NORTH DAKOTA<br>NORTH DAKOTA STATE UNIVERSITY<br>OF AGRICULTURE AND APPLIED SCIENCE<br>AND<br>UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING |     |          |               |
| <b>BELTSVILLE ENERGY-SAVING KITCHEN<br/>DESIGN 1 WITH WORKROOM</b>                                                                                                                                                            |     |          |               |
| USDA                                                                                                                                                                                                                          | '66 | EX. 7103 | SHEET 3 OF 11 |
| DESIGNED BY CLOTHING & HOUSING<br>RESEARCH BRANCH, ARS, USDA                                                                                                                                                                  |     |          |               |

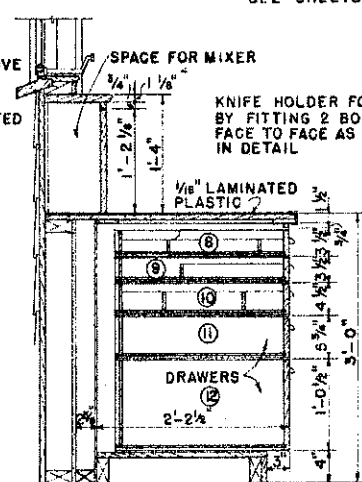


ELEVATION C-C FOOD PREPARATION & COOKING  
SEE SHEETS 2 & 3 FOR LOCATION OF SECTION LINES

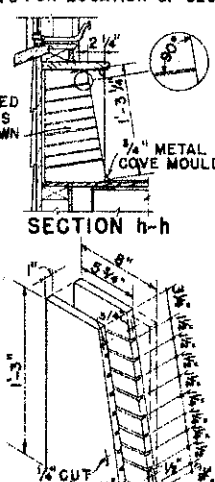
SCALE: 1" = 1'-0" EXCEPT WHERE OTHERWISE NOTED



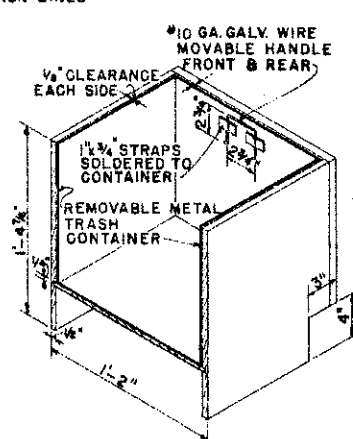
SECTION g-g  
SINK UNIT



SECTION i-i  
MIX CENTER

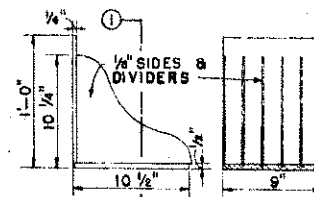


DETAIL OF  
KNIFE HOLDER  
SCALE 1/2" = 1'-0"



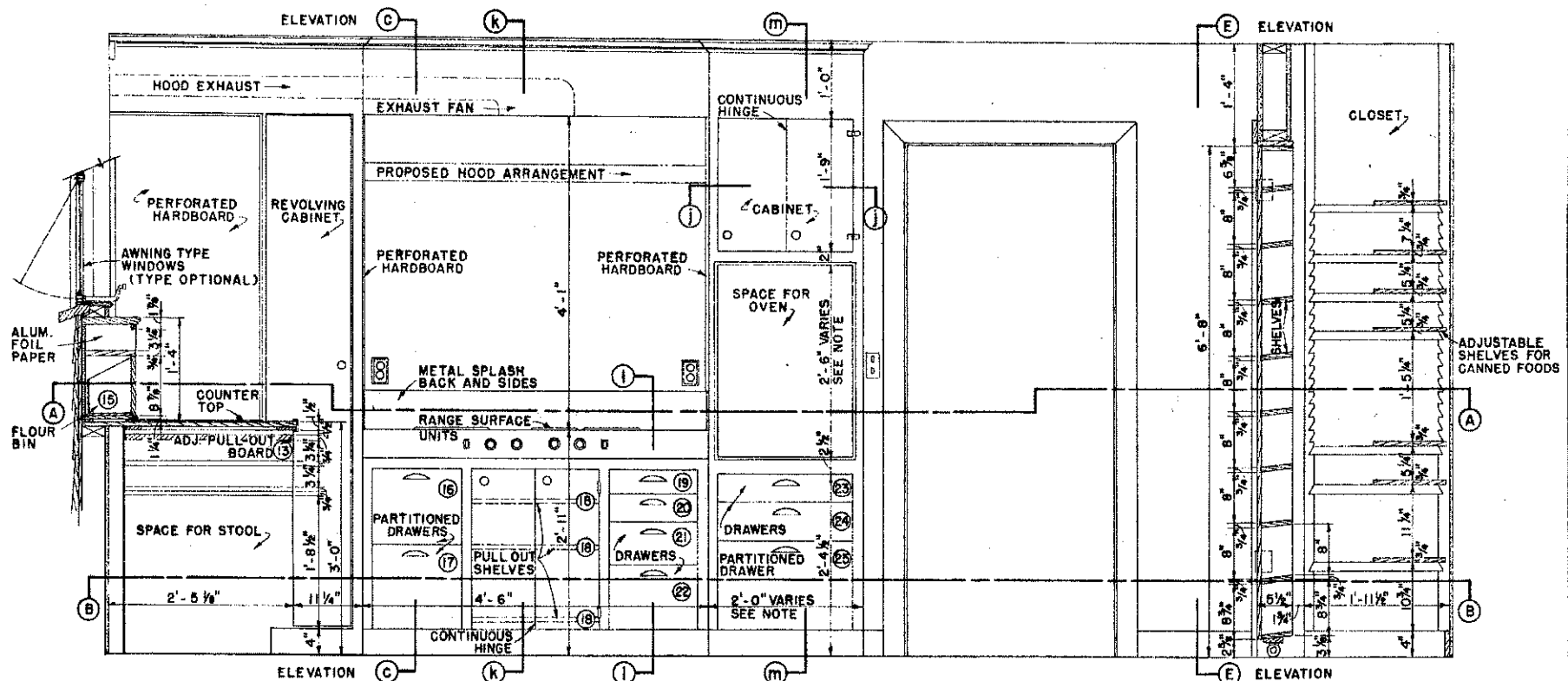
DETAIL FRONT PORTION  
METAL TRASH CONTAINER  
SCALE 1/2" = 1'-0"

NOTE:  
ADJUST TO SUIT SIZE OF EQUIPMENT  
SELECTED.



SIDE ELEV. SECTION I-I  
ADJUSTABLE DIVIDERS  
SCALE 1/2" = 1'-0"

|                                                                                              |     |          |               |
|----------------------------------------------------------------------------------------------|-----|----------|---------------|
| COOPERATIVE EXTENSION WORK IN<br>AGRICULTURE AND HOME ECONOMICS                              |     |          |               |
| STATE OF NORTH DAKOTA<br>NORTH DAKOTA STATE UNIVERSITY<br>OF AGRICULTURE AND APPLIED SCIENCE |     |          |               |
| AND<br>UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING                                   |     |          |               |
| BELTSVILLE ENERGY-SAVING KITCHEN<br>DESIGN I WITH WORKROOM                                   |     |          |               |
| USDA                                                                                         | '56 | EX. 7103 | SHEET 4 OF 11 |
| DESIGNED BY CLOTHING & HOUSING<br>RESEARCH BRANCH, ARS, USDA                                 |     |          |               |

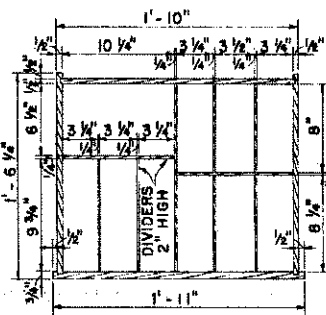


NOTE:  
OMIT DOOR AND SHELVES  
UNDER RANGE SURFACE UNITS  
WHEN ALTERNATE REFRIGERATION  
AND PLANNING UNIT (SHEET 11) IS USED.

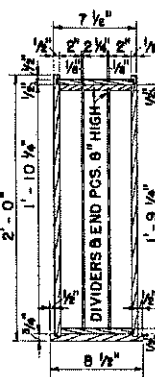
### ELEVATION D-D (FOOD PREPARATION & COOKING)

SEE SHEETS 2 & 3 FOR LOCATION OF SECTION LINES

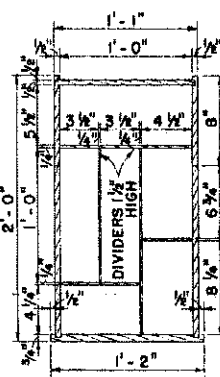
SCALE: 1" = 1'-0"



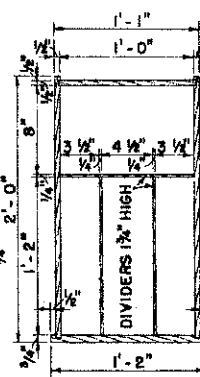
DRAWER NO. 2



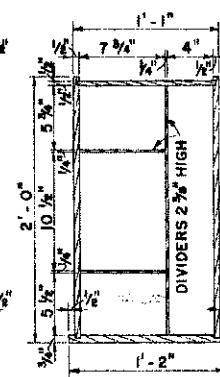
DRAWER NO. 7



DRAWER NO. 8



DRAWER NO. 9



DRAWER NO. 10

SCALE: 1 1/2" = 1'-0"

| MARK | DESCRIPTION      | WIDTH     | HEIGHT    | LENGTH    | DIVIDERS           | LOCATION               |
|------|------------------|-----------|-----------|-----------|--------------------|------------------------|
| 1    | PULL-OUT SHELF   | 1'-9"     | 3"        | 1'-6 1/2" | NONE               | DISH STORAGE UNIT      |
| 2    | DRAWER           | 1'-11"    | 8 1/2"    | 1'-6 1/2" | SEE DETAIL AT LEFT | DISH STORAGE UNIT      |
| 3    | PULL-OUT SHELF   | 1'-11"    | 3"        | 1'-6 1/2" | NONE               | DISH STORAGE UNIT      |
| 4    | VEGETABLE BIN    | 1'-0"     | 8 1/2"    | 6 1/2"    | NONE               | ABOVE DISHWASHING UNIT |
| 5    | VEGETABLE BIN    | 1'-3"     | 8 1/2"    | 6 1/2"    | NONE               | ABOVE DISHWASHING UNIT |
| 6    | DRAWER-MET. LIN. | 8 1/2"    | 7 3/4"    | 2'-0"     | NONE               | DISHWASHING UNIT       |
| 7    | DRAWER           | 8 1/2"    | 1'-2 1/4" | 2'-0"     | SEE DETAIL AT LEFT | DISHWASHING UNIT       |
| 8    | DRAWER           | 1'-2"     | 3 1/2"    | 2'-0"     | SEE DETAIL AT LEFT | FOOD PREPARATION UNIT  |
| 9    | DRAWER           | 1'-2"     | 3 1/2"    | 2'-0"     | SEE DETAIL AT LEFT | FOOD PREPARATION UNIT  |
| 10   | DRAWER           | 1'-2"     | 4 1/2"    | 2'-0"     | SEE DETAIL AT LEFT | FOOD PREPARATION UNIT  |
| 11   | DRAWER           | 1'-2"     | 5 1/2"    | 2'-0"     | NONE               | FOOD PREPARATION UNIT  |
| 12   | DRAWER           | 1'-2"     | 1'-0 1/2" | 2'-0"     | NONE               | FOOD PREPARATION UNIT  |
| 13   | PULL-OUT SHELF   | 2'-1 1/4" | 3"        | 2'-1 3/4" | NONE               | FOOD PREPARATION UNIT  |
| 14   | SUGAR BIN        | 11"       | 8 1/2"    | 6 1/2"    | NONE               | ABOVE FOOD PREP. UNIT  |
| 15   | FLOUR BIN        | 1'-1 1/2" | 8 1/2"    | 6 1/2"    | NONE               | ABOVE FOOD PREP. UNIT  |

COOPERATIVE EXTENSION WORK IN  
AGRICULTURE AND HOME ECONOMICS  
STATE OF NORTH DAKOTA  
NORTH DAKOTA STATE UNIVERSITY  
OF AGRICULTURE AND APPLIED SCIENCE

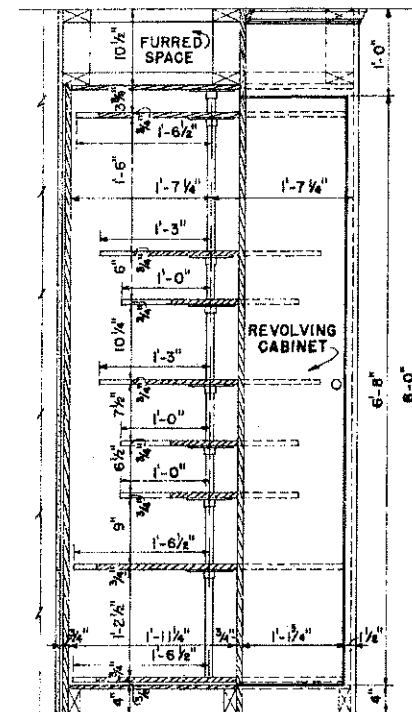
UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

BELTSVILLE ENERGY-SAVING KITCHEN  
DESIGN I WITH WORKROOM

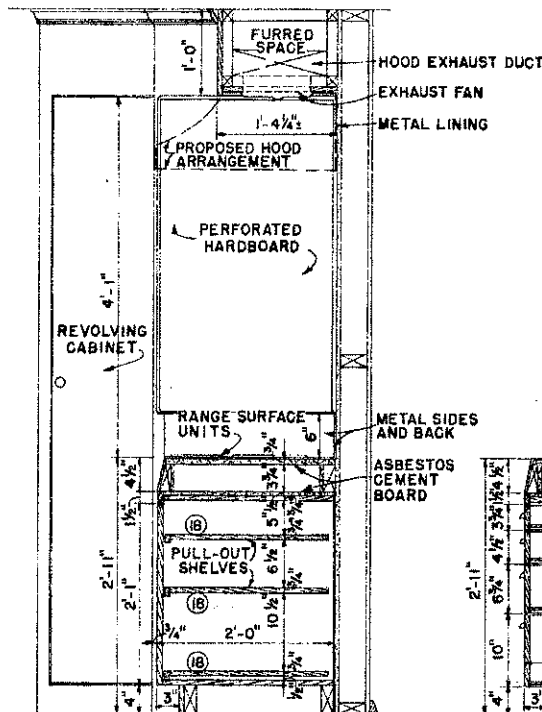
USDA '56 EX. 7103 SHEET 5 OF 11

DESIGNED BY CLOTHING & HOUSING  
RESEARCH BRANCH, ARS, USDA

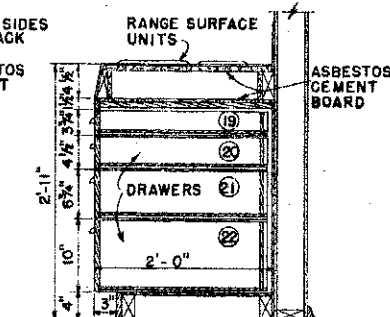
NOTE:  
ADJUST TO SUIT SIZE OF  
EQUIPMENT SELECTED.



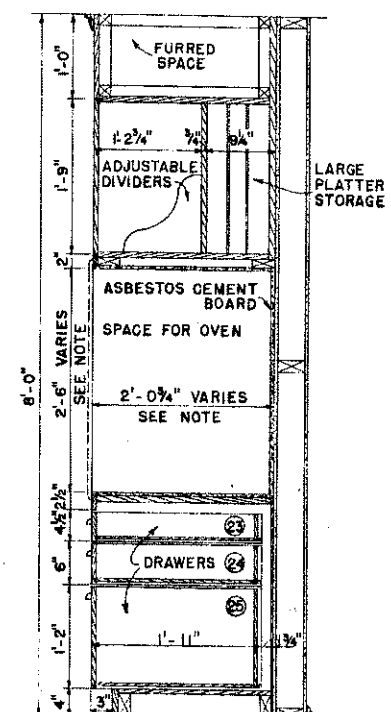
SECTION j-j  
REVOLVING CABINET



SECTION k-k



SECTION l-l



SECTION m-m  
OVEN UNIT

(CONTINUED)

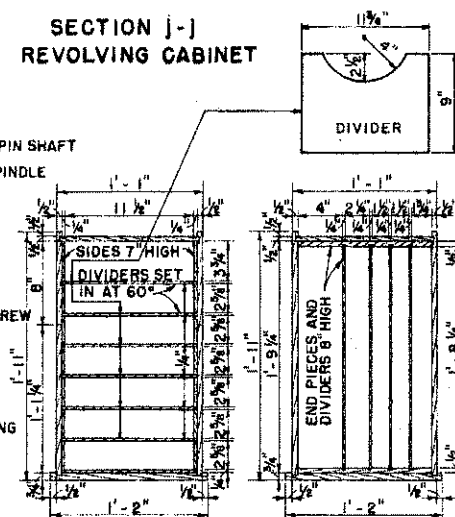
| MARK | DESCRIPTION    | WIDTH     | HEIGHT | LENGTH    | DIVIDERS           | LOCATION               |
|------|----------------|-----------|--------|-----------|--------------------|------------------------|
| 16   | DRAWER         | 1'-2"     | 1'-0"  | 1'-11"    | SEE DETAIL AT LEFT | RANGE UNIT             |
| 17   | DRAWER         | 1'-2"     | 1'-1"  | 1'-11"    | SEE DETAIL AT LEFT | RANGE UNIT             |
| 18   | PULL-OUT SHELF | 1'-9"     | 3/4"   | 1'-11"    | NONE               | RANGE UNIT             |
| 19   | DRAWER         | 1'-2"     | 3/4"   | 1'-11"    | SEE DETAIL AT LEFT | RANGE UNIT             |
| 20   | DRAWER         | 1'-2"     | 4 1/2" | 1'-11"    | NONE               | RANGE UNIT             |
| 21   | DRAWER         | 1'-2"     | 6 3/4" | 1'-11"    | NONE               | RANGE UNIT             |
| 22   | DRAWER         | 1'-2"     | 10"    | 1'-11"    | NONE               | RANGE UNIT             |
| 23   | DRAWER         | 1'-9"     | 4 1/2" | 1'-11"    | NONE               | OVEN UNIT              |
| 24   | DRAWER         | 1'-9"     | 6"     | 1'-11"    | NONE               | OVEN UNIT              |
| 25   | DRAWER         | 1'-9"     | 1'-2"  | 1'-11"    | SEE DETAIL AT LEFT | OVEN UNIT              |
| 26   | DRAWER         | 1'-10"    | 10"    | 2'-0 1/2" | NONE               | LAUNDRY UNIT           |
| 27   | DRAWER         | 1'-3"     | 6 1/2" | 1'-11"    | NONE               | REFRIGERATOR UNIT      |
| 28   | DRAWER         | 3'-0 1/2" | 3 1/2" | 1'-0"     | NONE               | PLANNING UNIT          |
| 29   | DRAWER         | 1'-5 1/2" | 7 1/4" | 1'-11"    | NONE               | REFRIG. UNIT ALTERNATE |

NOTE:  
ADJUST TO SUIT SIZE OF  
EQUIPMENT SELECTED.

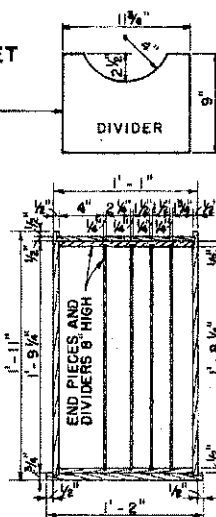
COOPERATIVE EXTENSION WORK IN  
AGRICULTURE AND HOME ECONOMICS  
STATE OF NORTH DAKOTA  
NORTH DAKOTA STATE UNIVERSITY  
OF AGRICULTURE AND APPLIED SCIENCE  
AND  
UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING  
BELTSVILLE ENERGY-SAVING KITCHEN  
DESIGN I WITH WORKROOM  
USDA '56 EX. 7103 SHEET 6 OF 11  
DESIGNED BY CLOTHING & HOUSING  
RESEARCH BRANCH, ARS, USDA



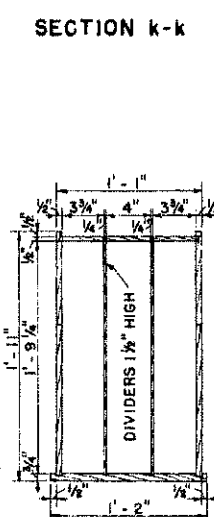
REVOLVING  
CABINET  
HARDWARE  
NOT TO SCALE



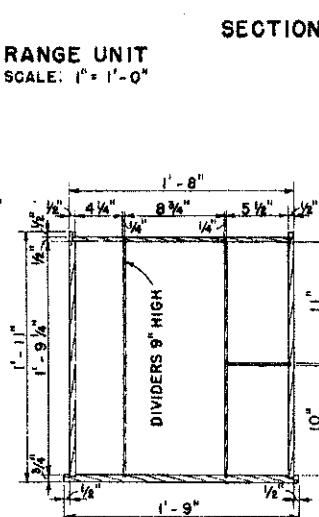
DRAWER NO. 16



DRAWER NO. 17

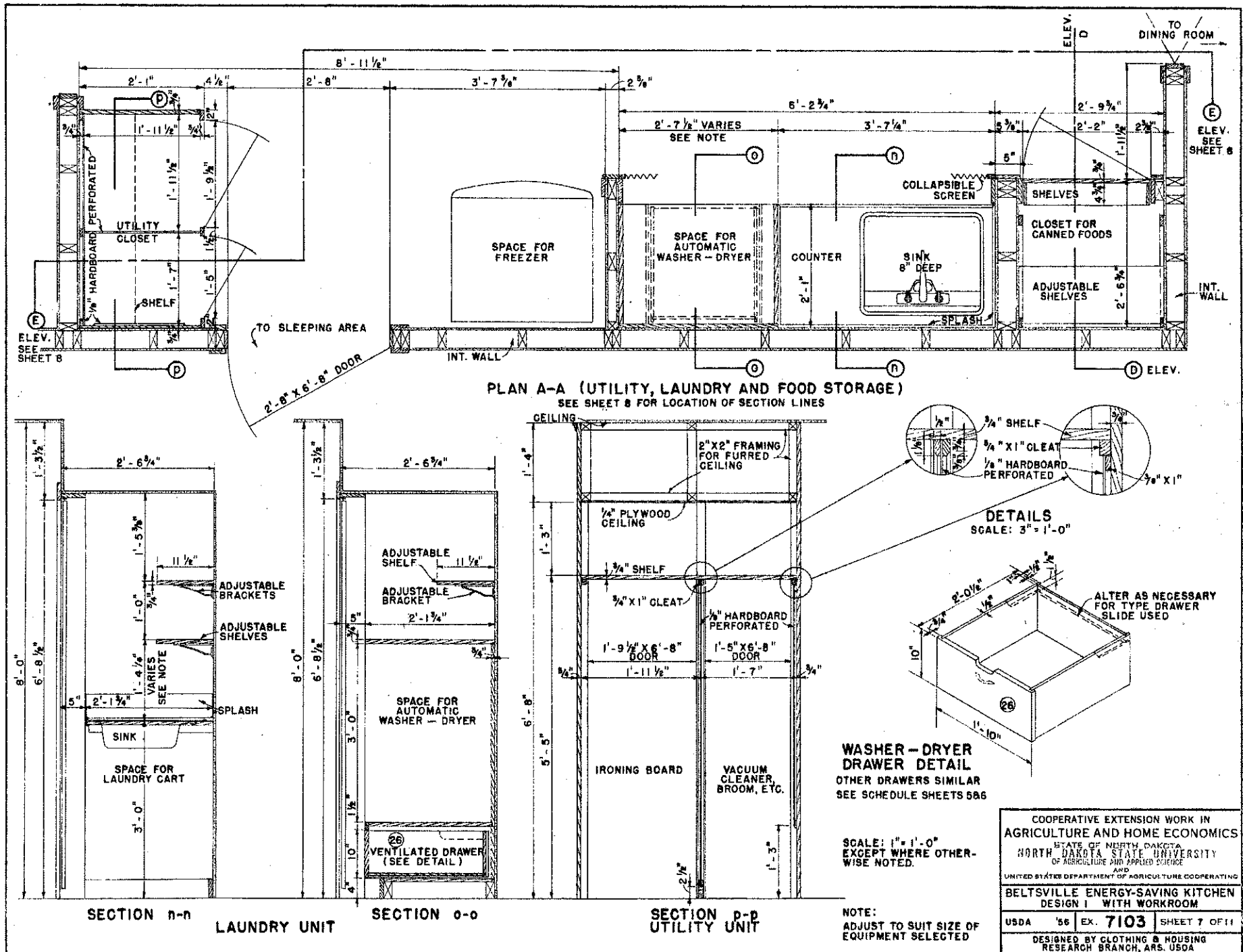


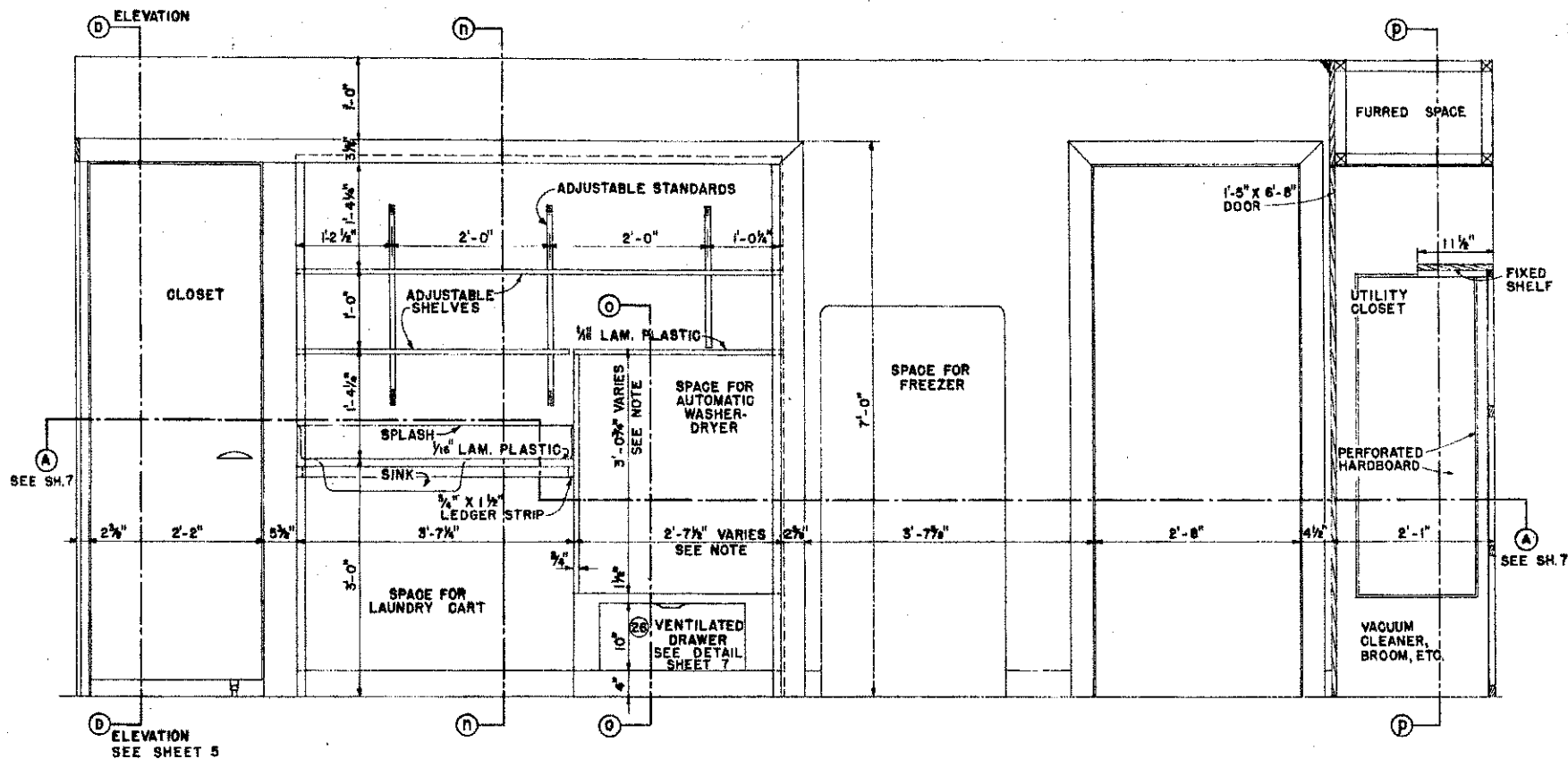
DRAWER NO. 19



DRAWER NO. 25

SCALE: 1 1/2" = 1'-0"



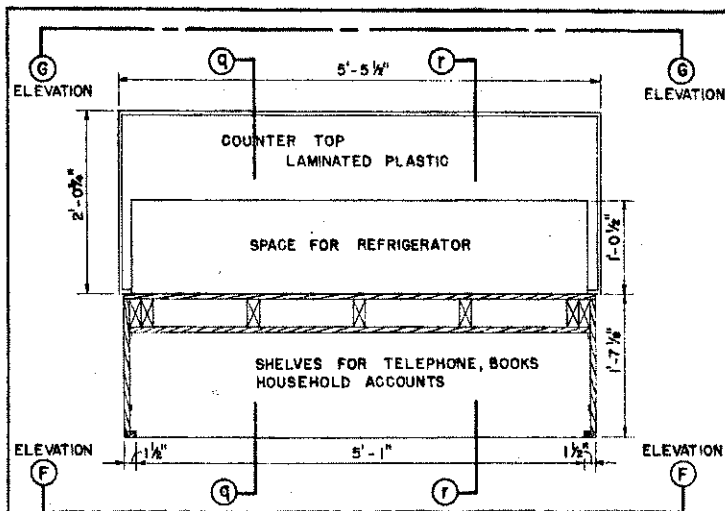


**ELEVATION E-E**  
(UTILITY, LAUNDRY & FOOD STORAGE)

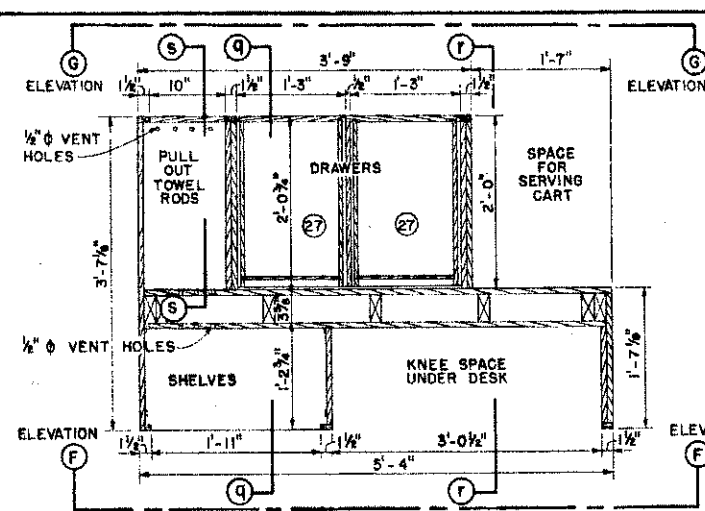
NOTE:  
ADJUST TO SUIT SIZE OF EQUIPMENT SELECTED.  
SCALE: 1" = 1'-0" EXCEPT WHERE OTHERWISE NOTED

|                                                                                                                                                                                                                               |          |               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------|
| COOPERATIVE EXTENSION WORK IN<br>AGRICULTURE AND HOME ECONOMICS<br>STATE OF NORTH DAKOTA<br>NORTH DAKOTA STATE UNIVERSITY<br>OF AGRICULTURE AND APPLIED SCIENCE<br>AND<br>UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING |          |               |
| BELTSVILLE ENERGY-SAVING KITCHEN<br>DESIGN I WITH WORKROOM                                                                                                                                                                    |          |               |
| USDA '55                                                                                                                                                                                                                      | EX. 7103 | SHEET 8 OF 11 |
| DESIGNED BY CLOTHING & HOUSING<br>RESEARCH BRANCH, ARS, USDA                                                                                                                                                                  |          |               |

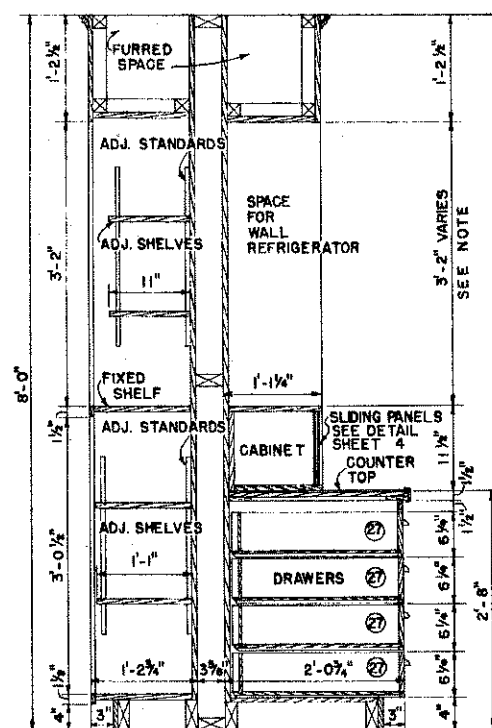




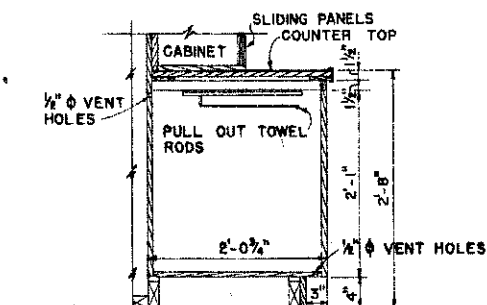
**PLAN A-A (REFRIGERATION & PLANNING)**  
SEE SHEET 10 FOR LOCATION OF SECTION LINES



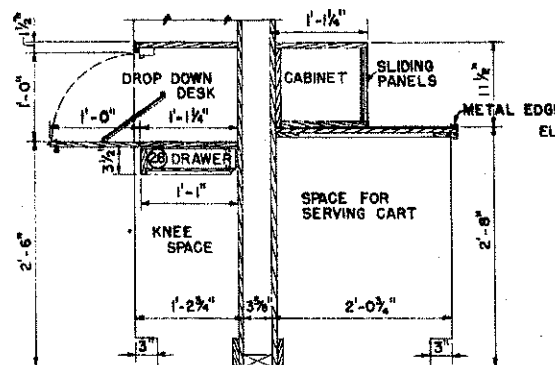
**PLAN B-B (REFRIGERATION & PLANNING)**  
SEE SHEET 10 FOR LOCATION OF SECTION LINES



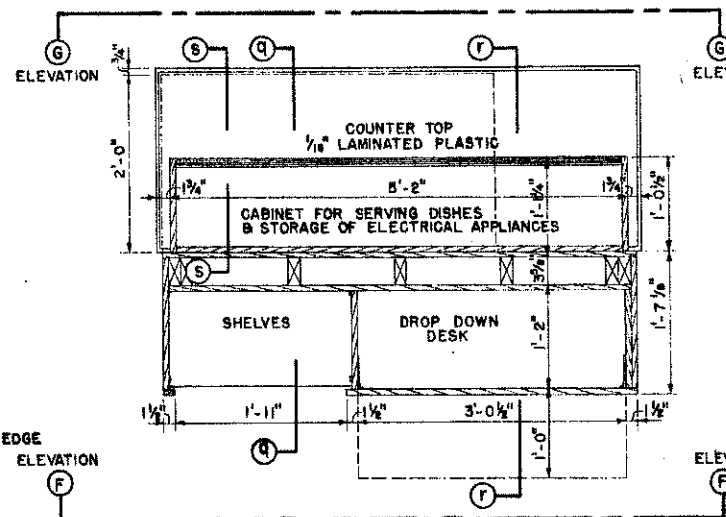
**SECTION q-q**  
**REFRIGERATION & PLANNING UNIT**



**SECTION s-s**  
**(REFRIGERATOR UNIT)**

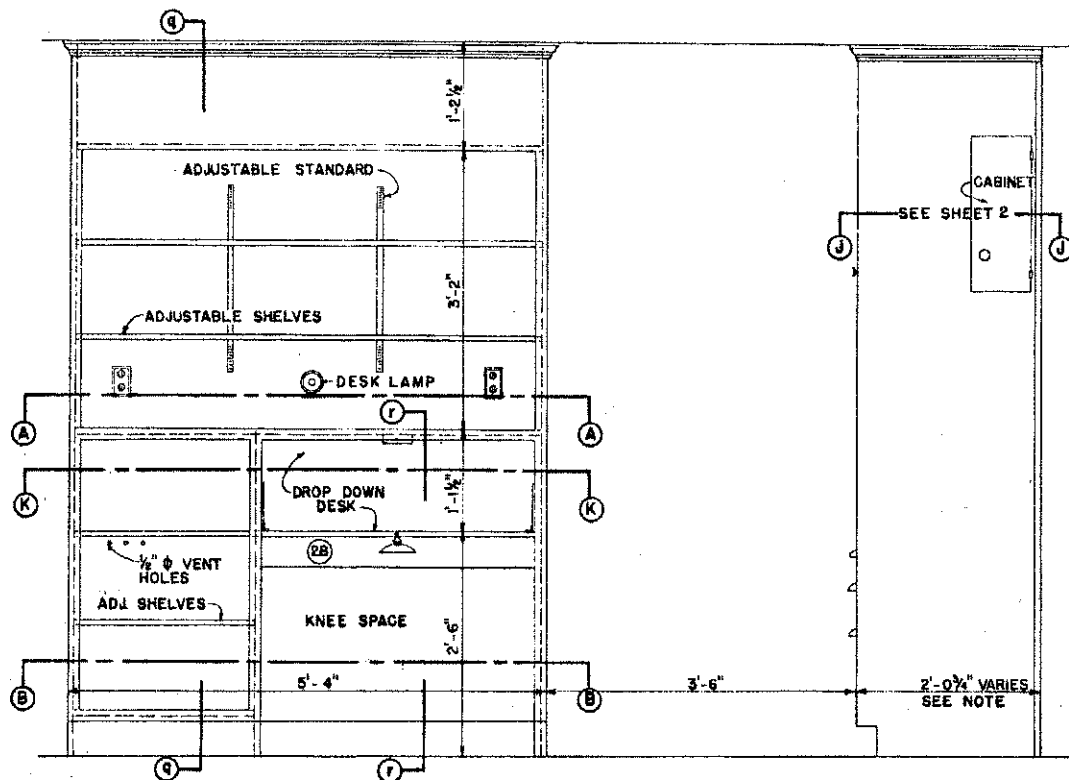


**SECTION r-r**



**K-K (REFRIGERATION & PLANNING)**  
SEE SHEET 10 FOR LOCATION OF SECTION LINES

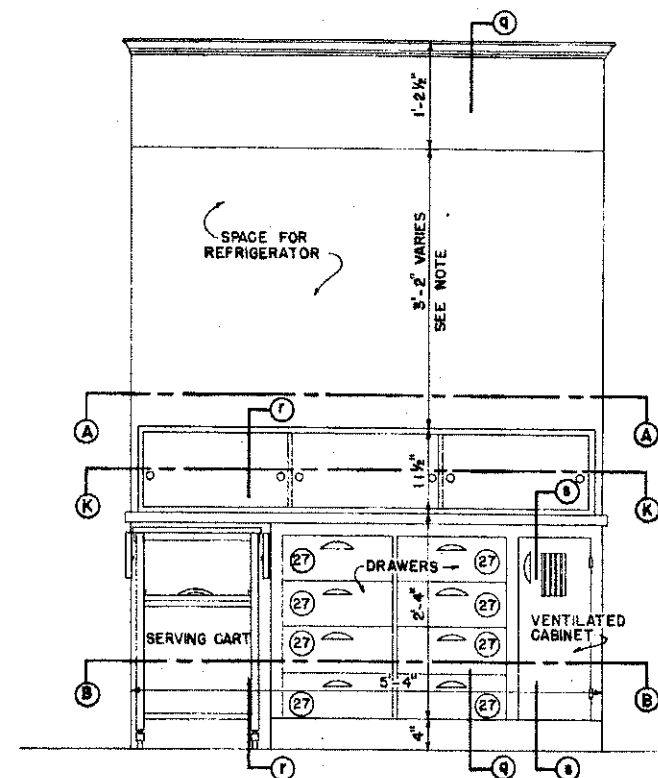
NOTE:  
ADJUST TO SUIT SIZE OF EQUIPMENT SELECTED.  
SCALE: 1" = 1'-0" EXCEPT WHERE OTHERWISE NOTED.



ELEVATION F-F  
(REFRIGERATION & PLANNING)

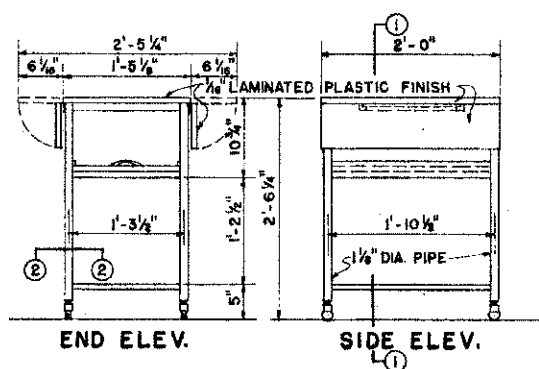
SEE SHEET 9 FOR LOCATION OF SECTION LINES

END ELEVATION  
(OVEN UNIT)



ELEVATION G-G  
(REFRIGERATION & PLANNING)

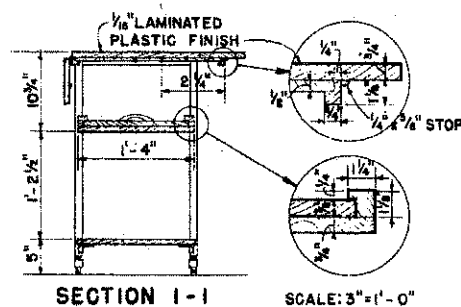
SEE SHEET 9 FOR LOCATION OF SECTION LINES



END ELEV.

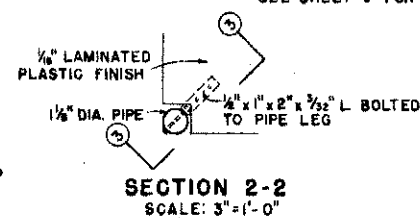
SIDE ELEV.

DETAILS OF SERVING CART



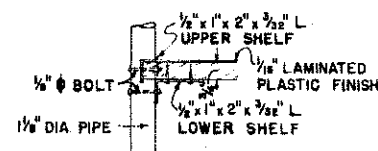
SECTION 1-1

SCALE: 3"=1'-0"



SECTION 2-2

SCALE: 3"=1'-0"



SECTION 3-3

SCALE: 3"=1'-0"

NOTE:  
ADJUST TO SUIT SIZE OF EQUIPMENT  
SELECTED.

SCALE: 1"=1'-0"  
EXCEPT WHERE OTHERWISE NOTED.

|                                                                                                                                                            |              |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|
| COOPERATIVE EXTENSION WORK IN<br>AGRICULTURE AND HOME ECONOMICS                                                                                            |              |                |
| STATE OF NORTH DAKOTA<br>NORTH DAKOTA STATE UNIVERSITY<br>OF AGRICULTURE AND APPLIED SCIENCE<br>AND<br>UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING |              |                |
| BELTSVILLE ENERGY-SAVING KITCHEN<br>DESIGN I WITH WORKROOM                                                                                                 |              |                |
| USDA                                                                                                                                                       | '56 EX. 7103 | SHEET 10 OF 11 |
| DESIGNED BY CLOTHING & HOUSING<br>RESEARCH BRANCH, ARS, USDA                                                                                               |              |                |



SCALE: 1" = 1'-0"

DESIGNED BY CLOTHING & HOUSING  
RESEARCH BRANCH, ARS. USDA

## ALTERNATE REFRIGERATION & PLANNING UNIT