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WAR DEPARTMENT TECHNICAL MANUAL

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WAR DEPARTMENT • *JULY 1945*

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BUILDING,

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WAR DEPARTMENT • *JULY 1945*

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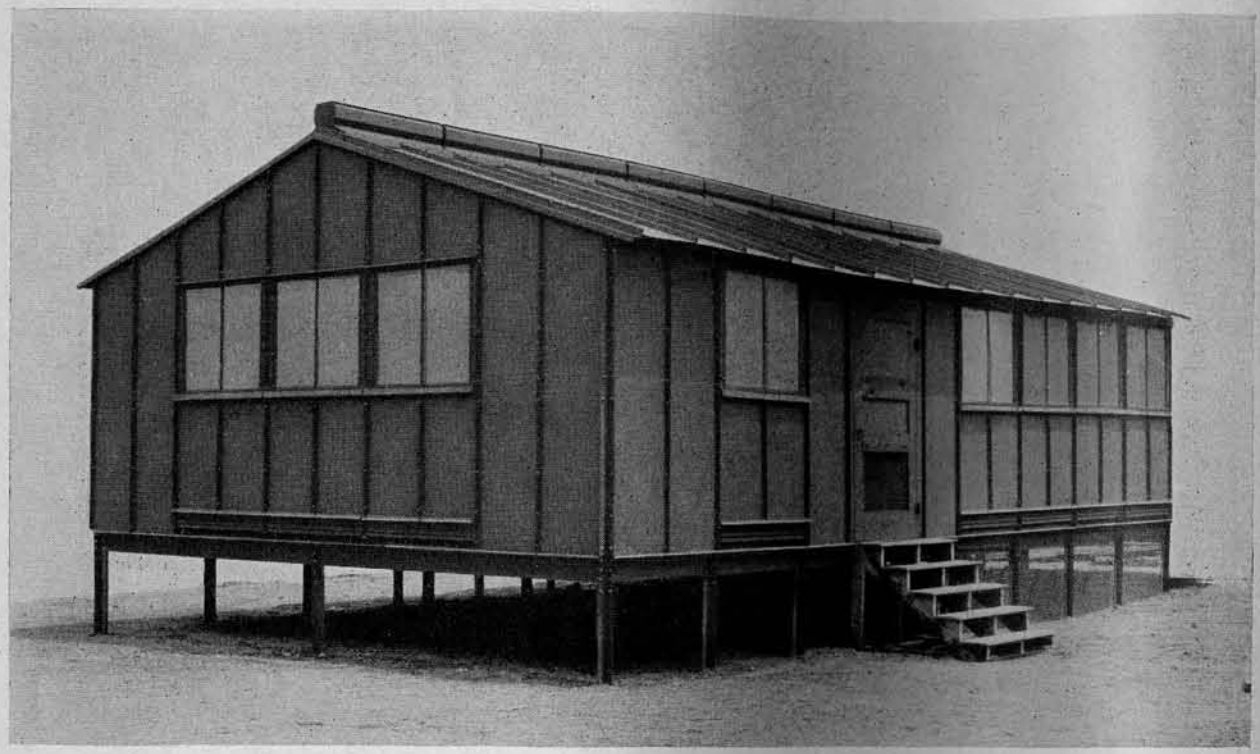
Refer to FM 21–6 for explanation of distribution formula.

CONTENTS

Section		Paragraph	Page
	I. PRELIMINARY SURVEY.		
	Description of building	1	1
	General instructions for erection procedure	2	2
	II. LAYING OUT THE SITE.		
	General Instructions	3	5
	III. PRINCIPLES OF ERECTION FOR KITCHEN AND OFFICE BUILDING.		
	Posts (foundations)	4	8
	Assembly and erection of floor joists	5	8
	Assembly of end wall units	6	11
	Assembly of side wall units	7	13
	Part assembly of truss and pre-erection preparation	8	15
	Erection of walls	9	15
	Erection of end gables	10	15
	Erection of trusses	11	15
	Application of side wall panels at corners of building	12	15
	Erection of trusses	13	17
	Erection of roof rafters	14	17
	Application of roof panels	15	17
	Ridge ventilators—Preerection assembly and erection	16	17
	Application of wall panels	17	17
	Laying of plywood floors	18	19
	Installation of windows	19	19
	Installation of doors in end of buildings	20	19
	Interior finish	21	19
	Screens	22	20
	Partitions in kitchen and office building	23	20
	Fixtures	24	20
	Step construction	25	20
	IV. ERECTION PROCEDURE OF WARD BUILDINGS.		
	General	26	21
	Foundation posts, joists and purlins	27	21
	Laying of floor	28	21
	Assembly of end and side wall units	29	23
	Erection of end, side wall units, and part of trusses	30	23
	Application of finish of exterior walls	31	23
	Erection of roof	32	25
	V. INTERIORS—WARD BUILDINGS.		
	Partitions in wards	33	29
	Ceilings in wards	34	29
	VI. ERECTION PROCEDURE OF UTILITY BUILDING.		
	General	35	31
	Foundation posts, joists and floor panels	36	31
	Side walls and roof	37	31
	Plumbing fixtures and pipes	38	31
	Ceilings	39	31
	Cabinets and work tables	40	31
	VII. ERECTION PROCEDURE FOR CORRIDORS.		
	General	41	38
	Foundation posts, joists and purlins	42	38
	Assembly of side wall units	43	38
	Erection of framing panels	44	39
	Interior finish	45	39
	Electric wiring and fixtures	46	39
	Roofing	47	39
	Exterior finish	48	39
	VIII. HOSPITAL EQUIPMENT AND FURNITURE.		
	Hospital equipment	49	41
	Furniture—kitchen	50	41
	Furniture—utility building	51	41
	IX. ELECTRIC AND PLUMBING.		
	Electric wiring	52	42
	Special switches	53	42
	Plumbing and fixtures	54	42
	X. LIST OF PARTS AND MATERIALS.		
	Kitchen—Office building	55	43
	Ward building	56	44
	Interior of Ward building	57	44
	Utility building	58	45
	Interior of Utility building	59	46
	Corridors	60	47
	Other material	61	48
	Plumbing material	62	50
	Electric material	63	54
	XI. MAINTENANCE, DISMANTLING AND REERECTION		
	Maintenance	64	55
	Dismantling	65	55
	Reerection	66	55

Section I

PRELIMINARY SURVEY



Completed end of ward building.

1. Description of Building.

a. This building is to be used for neuropsychiatric patients and consists of several metal buildings connected by corridors. The buildings and the partitions in the wards are metal, factory bent to shapes required, and are shipped in packages ready for assembly, first into sections and then into a building.

b. The component parts are angle-shaped posts, angle-shaped uprights and roof rafters, and covered on the exterior with sheet metal, all factory punched to permit bolting together. The erection is simple when precaution is taken that the various parts are placed in the proper position and all the holes of pieces to be bolted together, are aligned before inserting the bolts or screws.

c. The floor in the small building and corridors are plywood. The floors in the ward buildings are also plywood, but in the single rooms are covered with canvas. The utility building floor is concrete.

d. The interior finish in the ward and utility buildings is metal, including the partitions, and in the office building is of a wall board covered by metal strips.

e. The plumbing, electric wiring, and materials for cabinets, etc., except equipment furnished by the Surgeon General's Office, for the kitchen and office building are furnished under a bill of materials and should be constructed and installed in accordance with accepted standard practices. The plumbing lines, plumbing fixtures, electric wiring, cabinets, etc., for the utility buildings are packaged with the building and should be installed in accordance with the details shown on the plates for these items.

2. General Instructions for Erection Procedure.

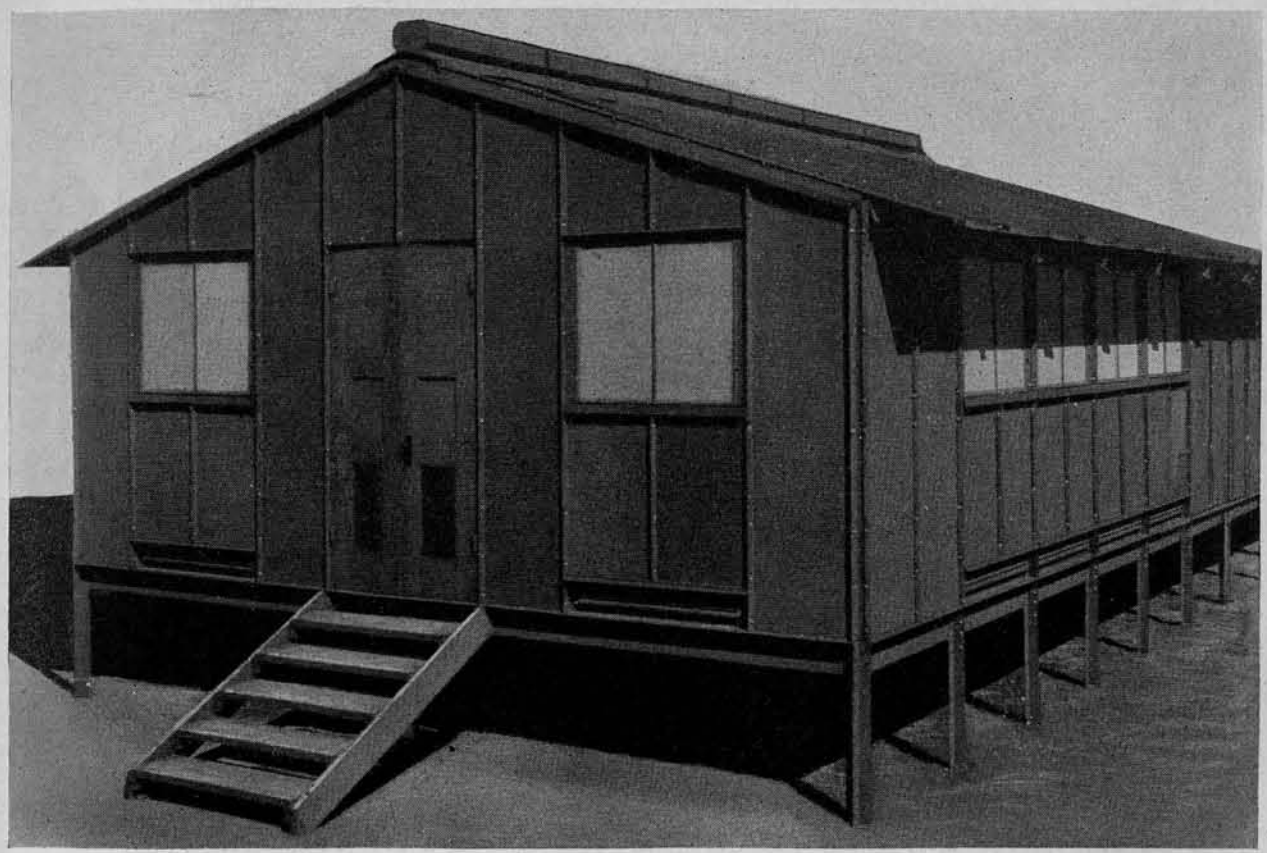
a. A complete unit is composed of one steel building 20 feet by 24 feet kitchen and office building, one 20 feet by 32 feet utility building, two steel 20 feet by 128 feet ward buildings (right and left), and two covered walks connecting the buildings.

b. The kitchen and office building is based on the standards for a steel barracks, and the erection of these buildings can be expedited if several of the component parts are preerection assembled as described in section III, of this text.

c. The two larger buildings and utility building are similar to the standard for barracks but vary in the item markings and other details because of the special requirements for the interior finish. Departures from the erection of a standard building and other pertinent information is described in section IV and section VI.

d. The two covered walls are also constructed of metal and are described in section VII.

e. Check with shipping list to be certain that all the packages are available for immediate use. The lumber etc., is shipped separate and not included in the packages. It is suggested that, as the various packages are uncrated, the contents be segregated into groups comprising all material and parts bearing similar markings to facilitate locating them as required. Care should be used in uncrating the packages so that the crating lumber is not destroyed, as this material is used for the step construction, temporary bracing, and scaffolding. Section X indicates the material required for each section or unit of the building.

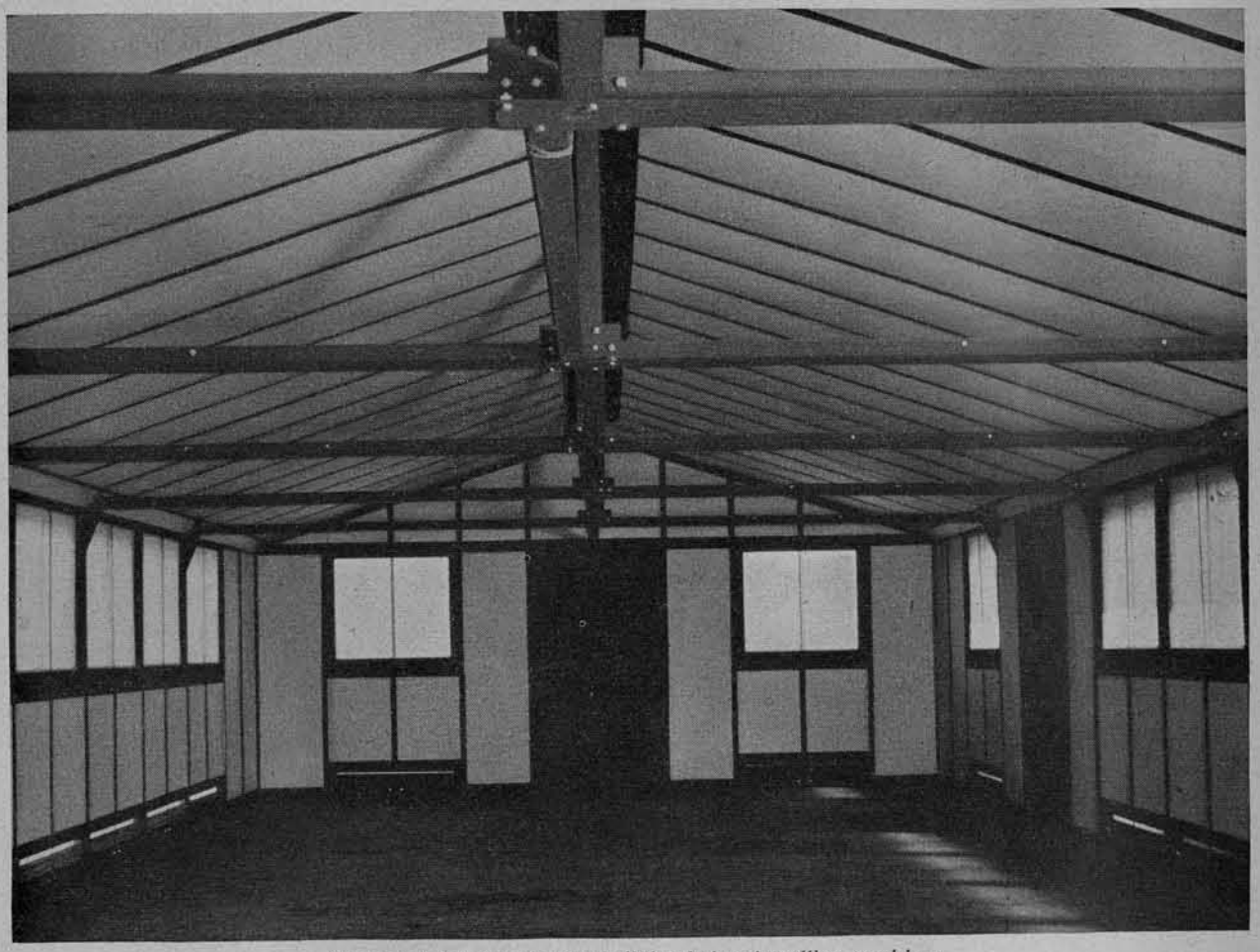


Completed end of office building.

f. It is recommended that where preerection assembly is possible the sections be so assembled that the exterior or outside face is up or toward the workers. Bolts of 3/8-inch length and sheet metal screws are used mostly for assembly and erection and can be installed with wrenches, screw drivers, drift pins, and hammers. Caution should be exercised that all nuts are started so that the slightly rounded head will be against the metal members and that the nut

rather than the head of the bolt be tightened sufficiently to bring the parts together without damage. The drive screws with smooth pilot point should be driven in by hammer only sufficiently to pierce the metal and driven home by means of a screw driver.

g. The plates Nos. 1 to 37 show details of plan-erection and assembly of the special features of the wards-utility and corridors.



Completed interior of office building before installing partitions.

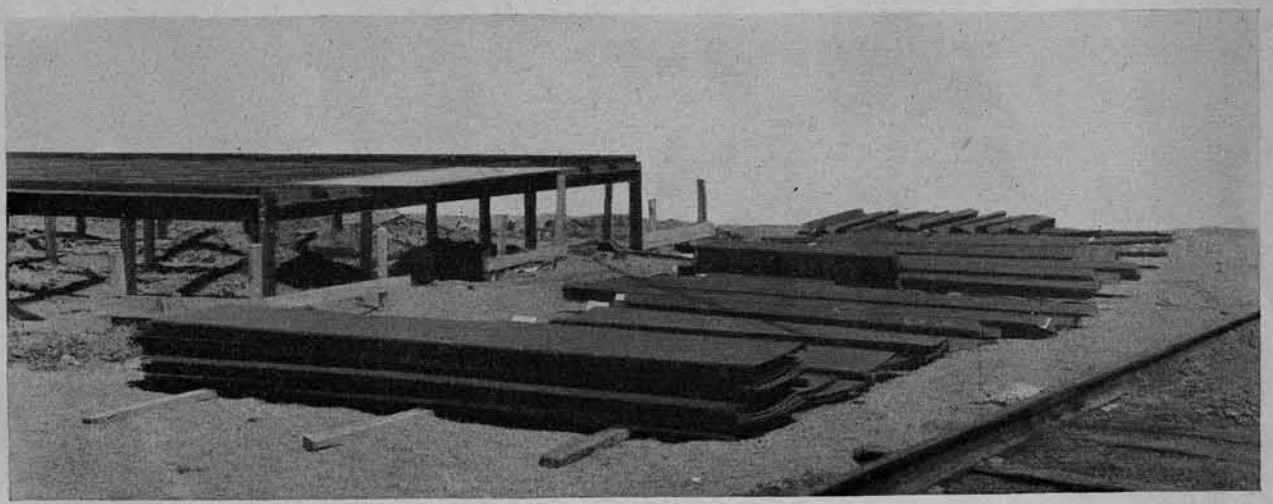


Figure 1. Materials segregated into groups according to markings.

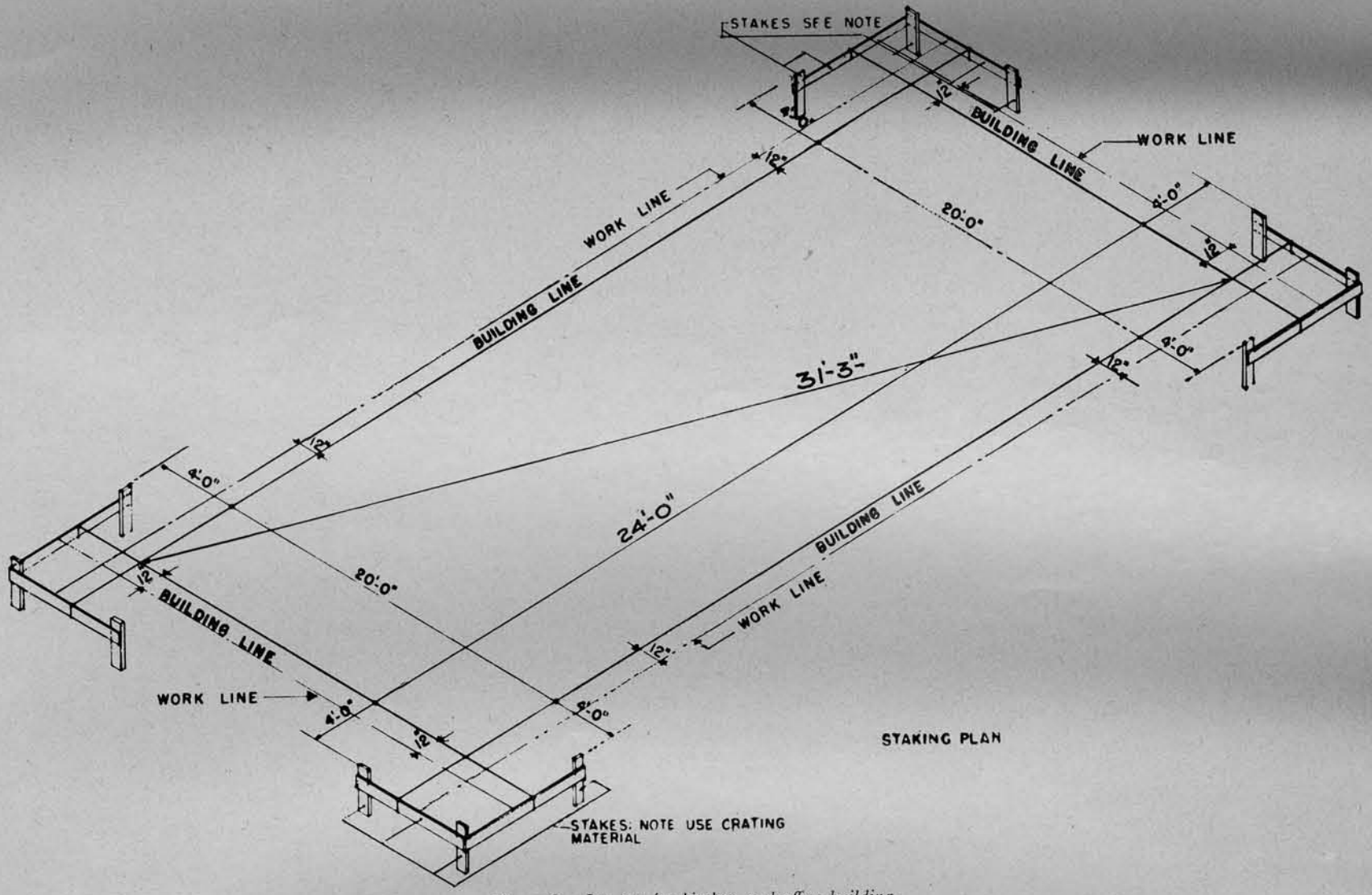


Figure 2. Lay-out for kitchen and office building.

Section II

LAYING OUT THE SITE

3. General Instructions (fig. 2).

a. In laying out the corners of the foundation posts, sufficient corner batter boards to which lines are tied should be made from crating material. Figure 3 shows one corner set up with batter boards and the staples driven into the ground. The batter boards should be located approximately 4 feet beyond what will be the outside wall of the building.

b. If a transit is not available a lay-out is illustrated for the two smaller buildings. Set up two parallel lines 20 feet apart, fastened to the batter boards. These lines can be placed at a height which will represent the height of the posts above grade. Cross these two lines with two other lines 24 feet apart. Check carefully for squareness by measuring the diagonal where the lines cross. The two diagonal dimensions must be exactly equal, otherwise the building will be out of square. It is suggested that the batter board be permanently marked to retain established position of lines for future reference.

c. The lay-outs for the larger buildings is similarly accomplished.

d. The locations of all posts and holes can be obtained from plate No. 1.

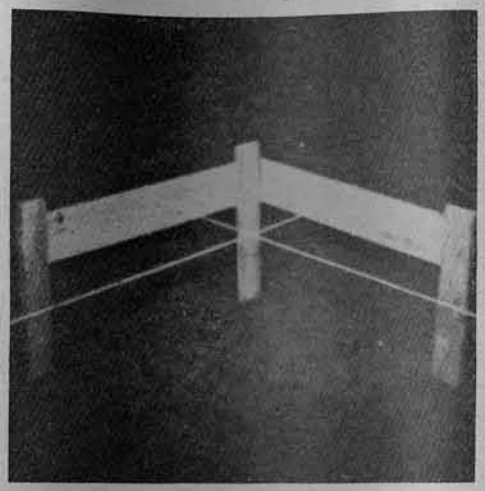


Figure 3. Corner batter boards.

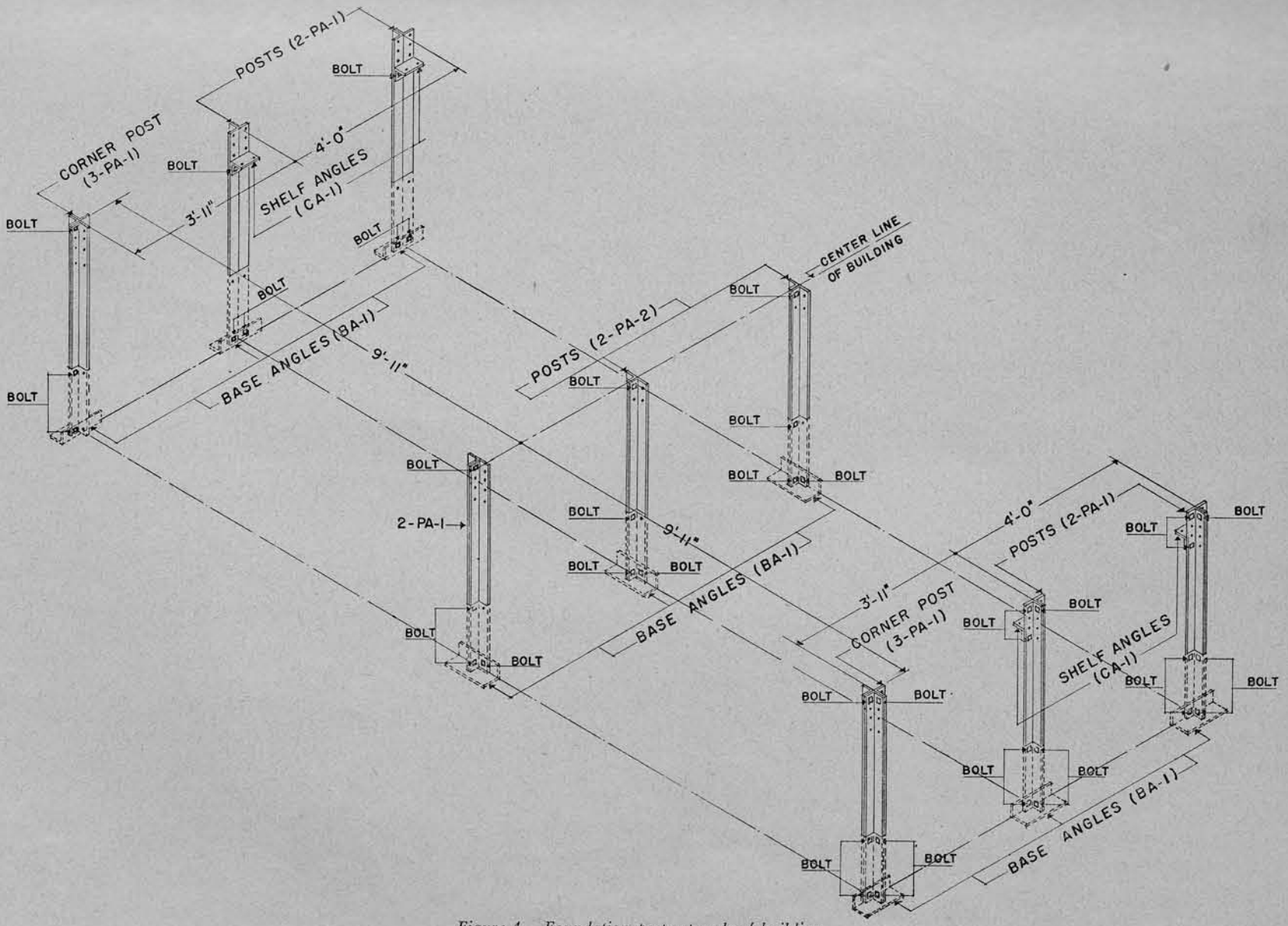


Figure 4. Foundation posts at ends of building.

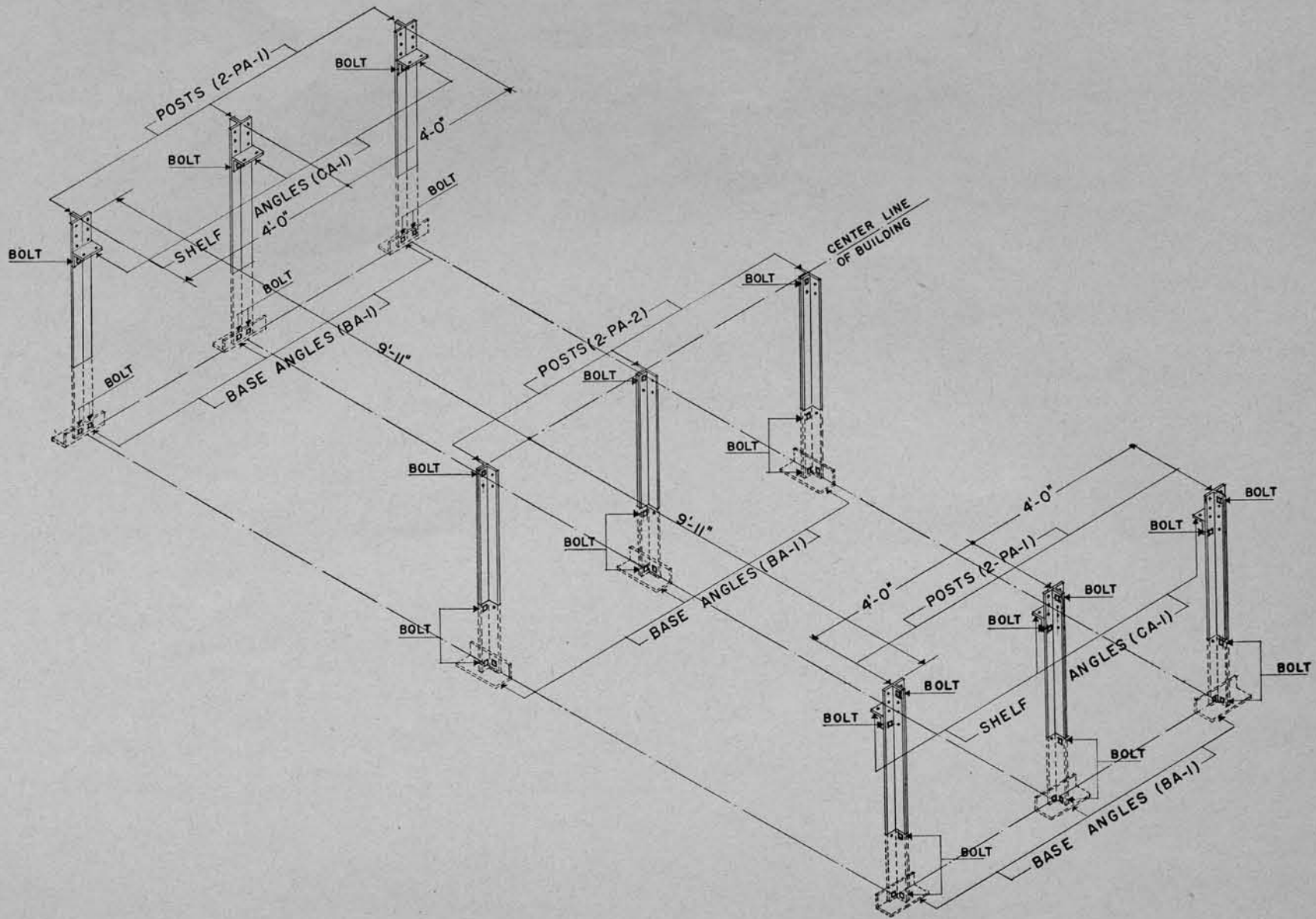


Figure 5. Foundation posts—Typical bay.

Section III

PRINCIPLES OF ERECTION FOR KITCHEN AND OFFICE BUILDING

4. Posts (Foundations).

a. As the posts are approximately 4 feet 3 inches and 4 feet 6 inches long, holes should be dug after a point has been established that will be the finished floor level, and the bottom of the holes should be leveled at such varying depths as may be necessary to assure that the tops of all posts will be level. Caution should be exercised that the holes are not dug deeper than necessary, and, if they should be dug too deep, a suitable hard soil or gravel should be used to bring the bottom up to the proper level.

b. The back or inside face of the exterior posts will be located approximately 1 inch from the established building lines.

c. The exterior side wall posts are assembled with two PA–1's and with a base angle BA–1 at bottom and shelf angle CA–1 at top bolted tightly into position. (See figs. 4, 5, and 6.)

d. The interior posts are assembled of two members marked PA–2, with one base angle BA–1, bolted tightly into position. (See figs. 4 and 5.)

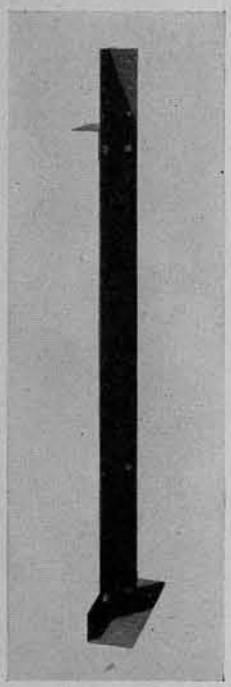


Figure 6. Side wall post.

e. The exterior end wall posts are assembled in a similar manner as the sidewall post, except that no shelf angle CA–1 is attached. (See fig. 4.)

f. The corner posts are assembled similar to the side wall except that three PA–1's are used. Two PA–1's are assembled as for a side wall post and the third PA–1 is fastened to the back of the base angle. (See figs. 4 and 7.)

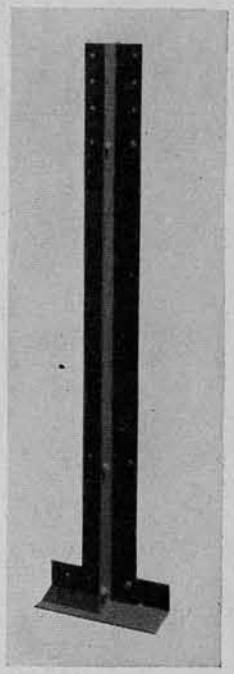


Figure 7. Corner post.

5. Assembly and Erection of Floor Joists.

a. Between the posts at side walls place the side wall girders in the following order: ZJ–4L (dimension of top holes of 1¾ inches, 9 inches toward the corner post), ZJ–3, and ZJ–4R. (See fig. 7.)

b. Assemble joists for ends of buildings by fastening JA–2L to ZJ–2L and JA–2R to ZJ–2R. Note on ZJ–2L and ZJ–2R, the six holes close together

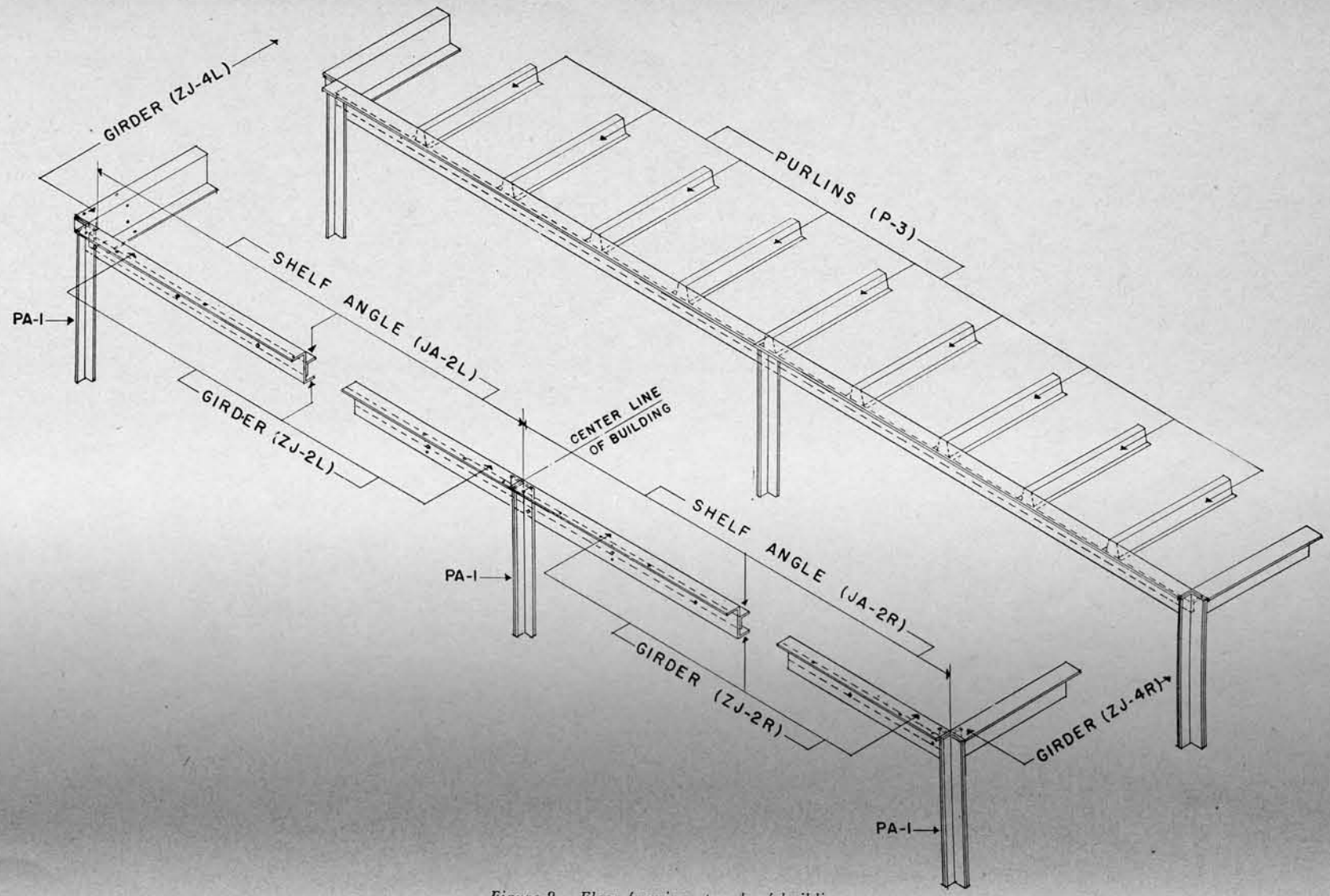


Figure 8. Floor framing at ends of building.

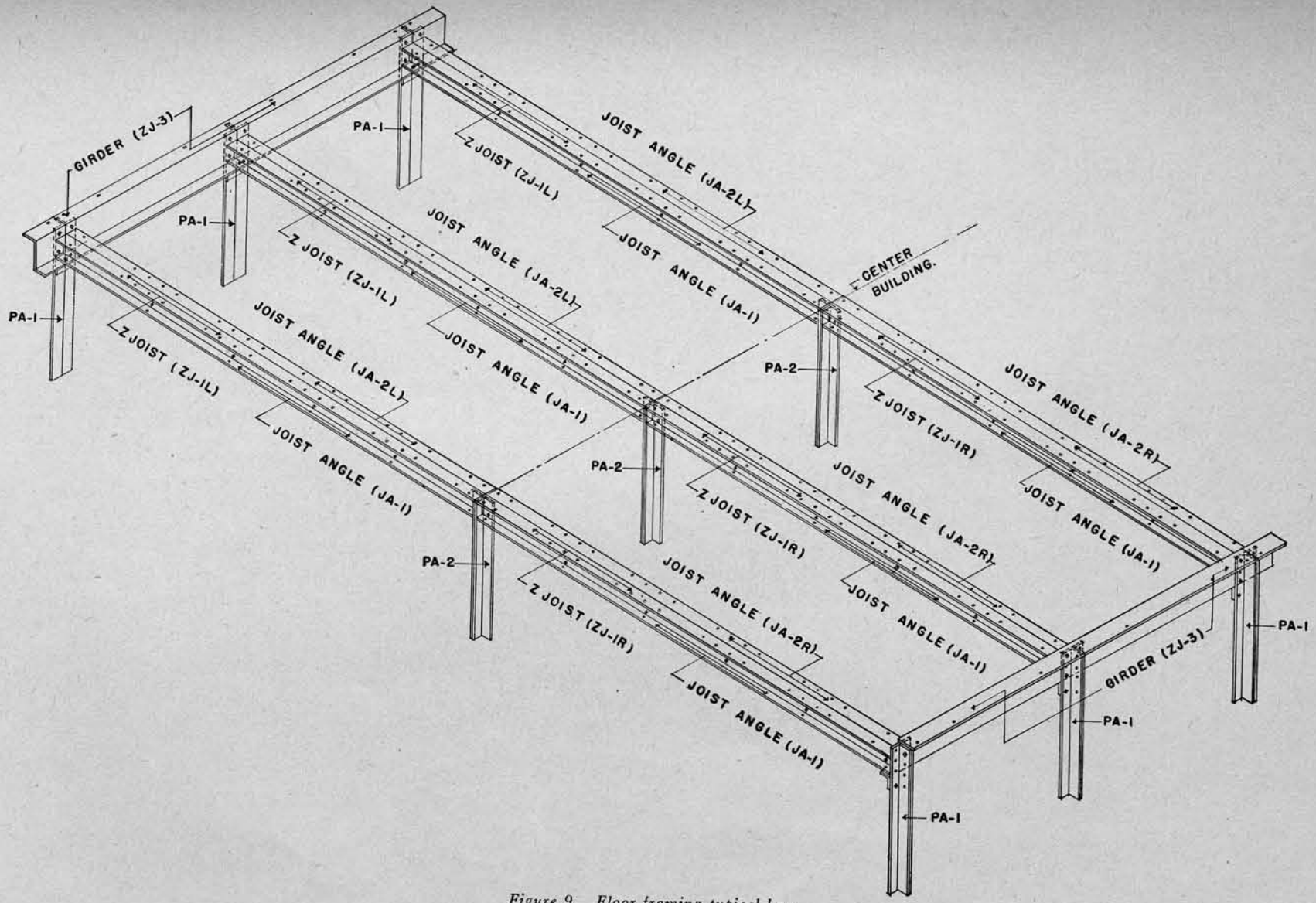


Figure 9. Floor framing typical bay.

are to the center of the building. Do not place bolts in end holes. (See fig. 8.)

c. Assemble intermediate 10-foot joists by bolting JA–2R and JA–1 on opposite sides of ZJ–1R.

Note. Do not place bolts in end which will be at the center of the building and on ZJ–1R the end (on which the first holes in the top series of holes is approximately 5″ from the end) must go towards the outside of the building. (See fig. 9.)

d. The joist ZJ–1L is similarly assembled.

e. When all the cross joists have been assembled they should be placed into position by bolting them

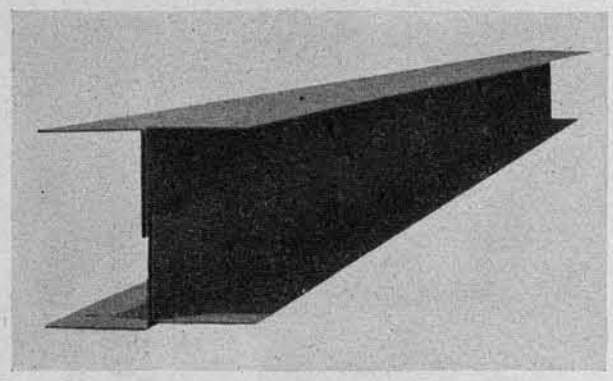


Figure 10. Joist assembly.

to the posts. The intermediate cross joists must be so placed that all the angles JA–1 are toward the same end of the building.

f. Place purlins P–3 for each end unit of building starting on center line of building and progressing toward the sides at 2 feet 0 inches spacings. P–2 purlins are used for intermediate units. Securely fasten purlins to the joists with self tapping sheet metal screws fitting into the series of holes on the top of ZJ–1R/L and angle JA–2L/R and at building ends. (See figs. 8, 9, and 12.)

g. Locate purlins P–1 on top of the intermediate joists and fasten with four screws.

h. Tighten all nuts securely as posts and joists are aligned, squared, and leveled. Check entire building for squareness and back-fill post holes.

i. By placing the larger pieces of the crating material across these purlins and joists a working platform can be made for the assembly of the wall panels.

6. Assembly of End Wall Units (fig. 13).

a. The end walls are preerection assembled by bolting sill SA–4L (dimensions of holes from corner post are 3 inches, 9 inches, 2 feet 0 inches, etc.) to the bottom of uprights, one WA–7, two WA–2, two WA–4 and one WA–5. These upright members have the first two holes 2″ and 8¾″ from the bottom. A louver unit is included where a window occurs and is fastened to WA–2 and WA–4 at the time that the sill angle, SA–4L is bolted. Insert member T–10 between the angle SA–4L and the uprights before tightening.

b. The louver unit is assembled by fastening, with screws, the louver plates LP–1 to the three louver vanes LV–1. Caution should be used so that the screw heads are to the inside of building. (See fig. 13D.)

c. The window members WJ–1 should be fastened to uprights WA–2 and WA–4 with the bolt nuts to the inside of the building. Fasten window sill WS–1 and T–9 in position and place window head WH–1, flashing strip, WF–1, and BC–3 to

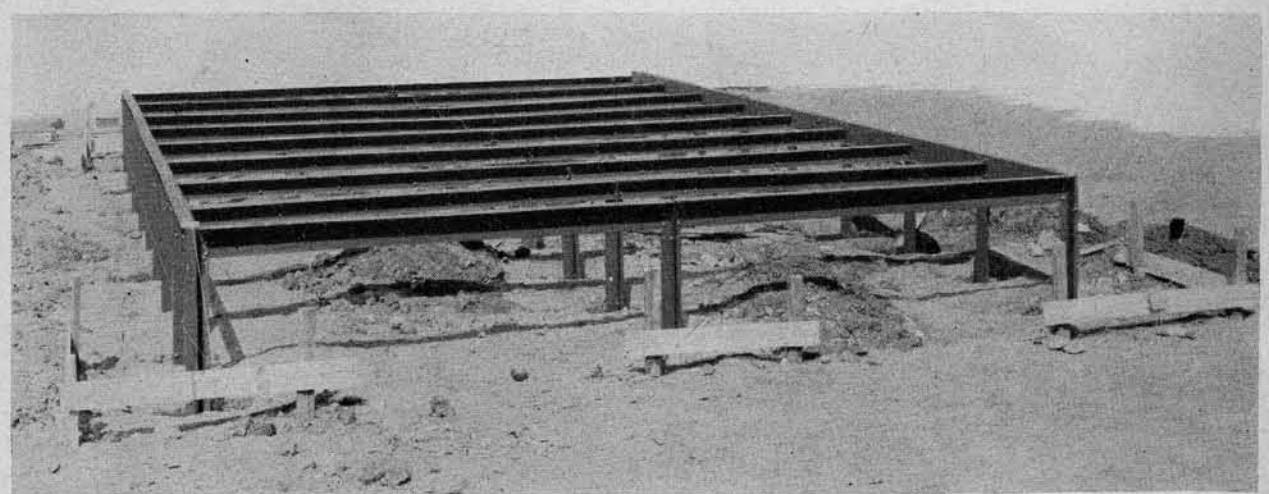


Figure 11. Girders and joists in place.

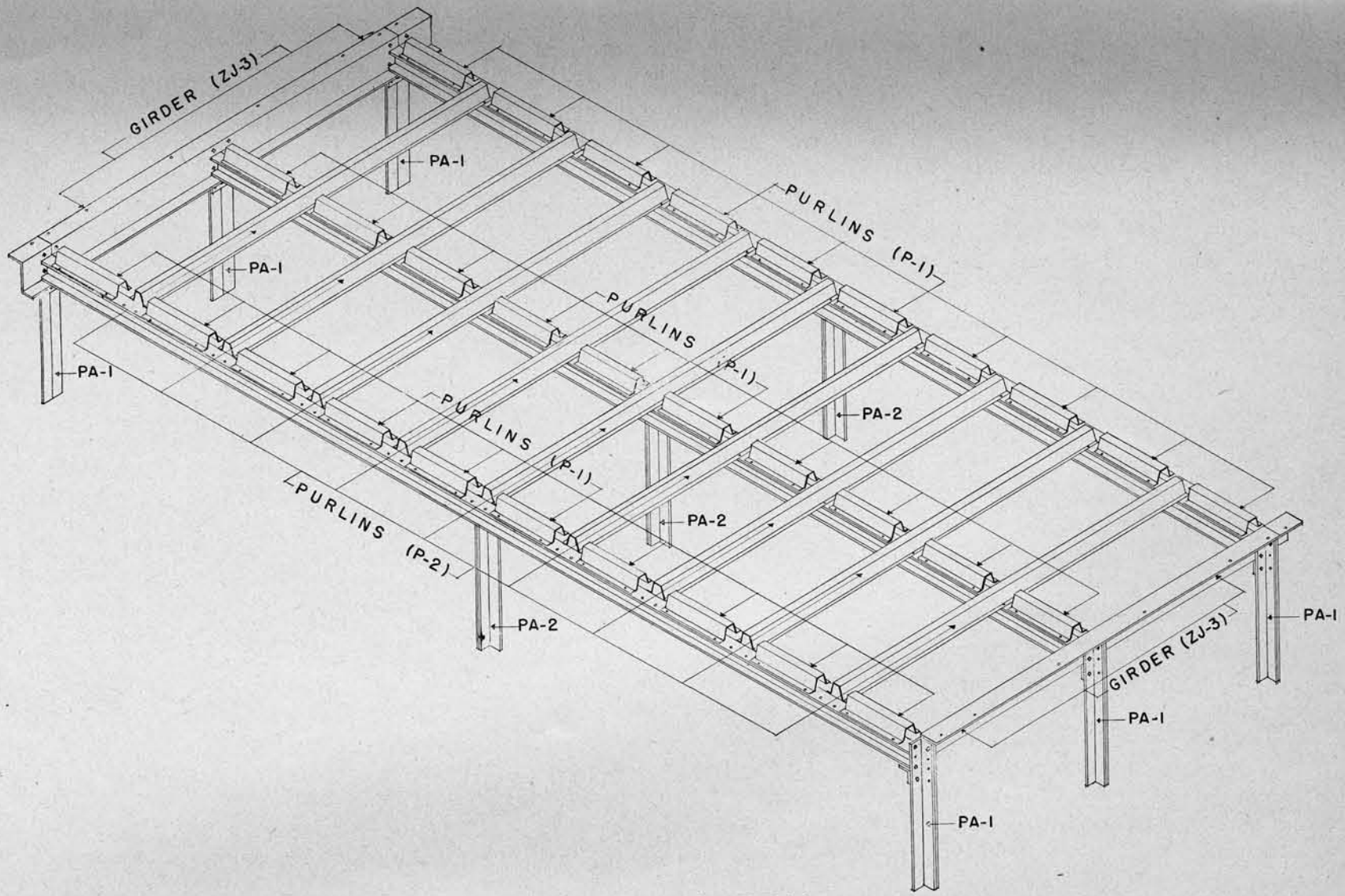


Figure 12. Floor purlins—Typical bay.

uprights, inserting T–10 between the uprights and BC–3. (See figs. 13, 13A, and 13E.)

d. Approximately 9 inches from bottom of uprights fasten louver angle LA–1 and T–11. In the center between WS–1 and LA–1 fasten two WA–8. (See fig. 13.)

e. Slide louver screens between T–10 and T–11 and apply screen clip, SC–1, with two bolts.

f. The unit for the portion on the other side of door is similarly assembled using SA–4R in lieu of the SA–4L.

7. Assembly of Side Wall Units.

a. The side walls are preerection assembled in units approximately 8 feet 0 inches long in the following manner:

For the units next to the corners, fasten an SA–4R (dimension of holes 3 inches, 9 inches, etc. toward corner posts) to the bottom of uprights WA–7, two WA–7, two WA–7 and one WA–6R, inserting T–10 between the angle and the uprights. A louver unit is included where windows occur. (See fig. 13D

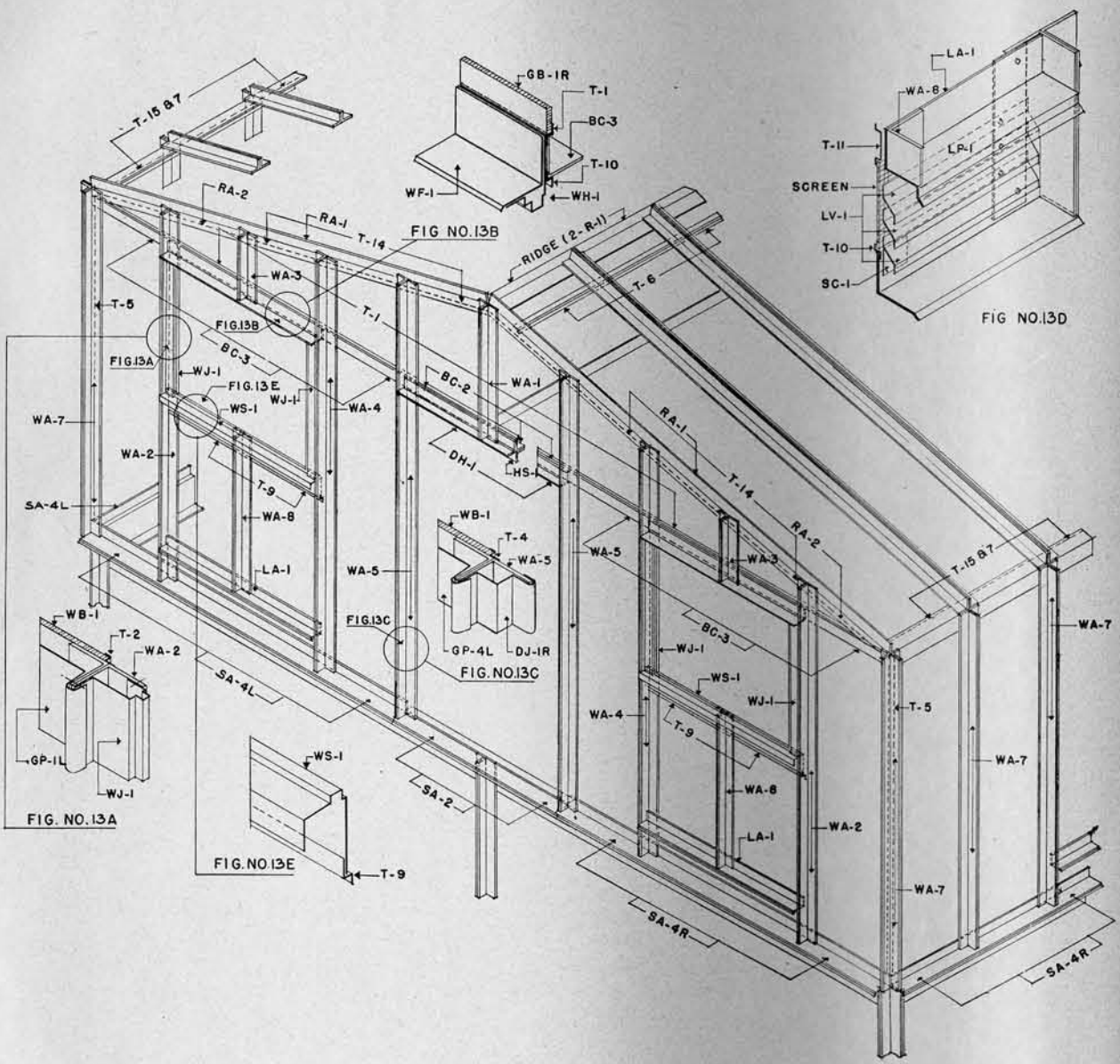


Figure 13. End wall framing.

for assembly.) At the top of these uprights is an eave angle, EA–1, but before attaching this angle, members of the windows must be placed.

b. Bolt window members WJ–1 R/L on uprights so that bolt nuts will be on the inside of the building. Fasten window sill WS–1 and T–9 between the WA–6L and the first WA–7 at bottom of attached window jambs. Attach window head WH–1 and eave angle EA–1 to the top of the uprights. Insert T–8 before final tightening. (See fig. 14A.)

c. Approximately 9 inches from the bottom fasten louver angle LA–1 with member T–11 on the inside face. Between WS–1 and LA–1 at the center, bolt two WA–8. (See fig. 14.)

d. It will be noted that the first unit directly across the building is similarly assembled using members with SA–4L and WA–6L in lieu of SA–4L and WA–6R mentioned above. (See fig. 13.)

e. Slide louver screens between T–10 and T–11 and apply screen clip, SC–1, with two bolts.

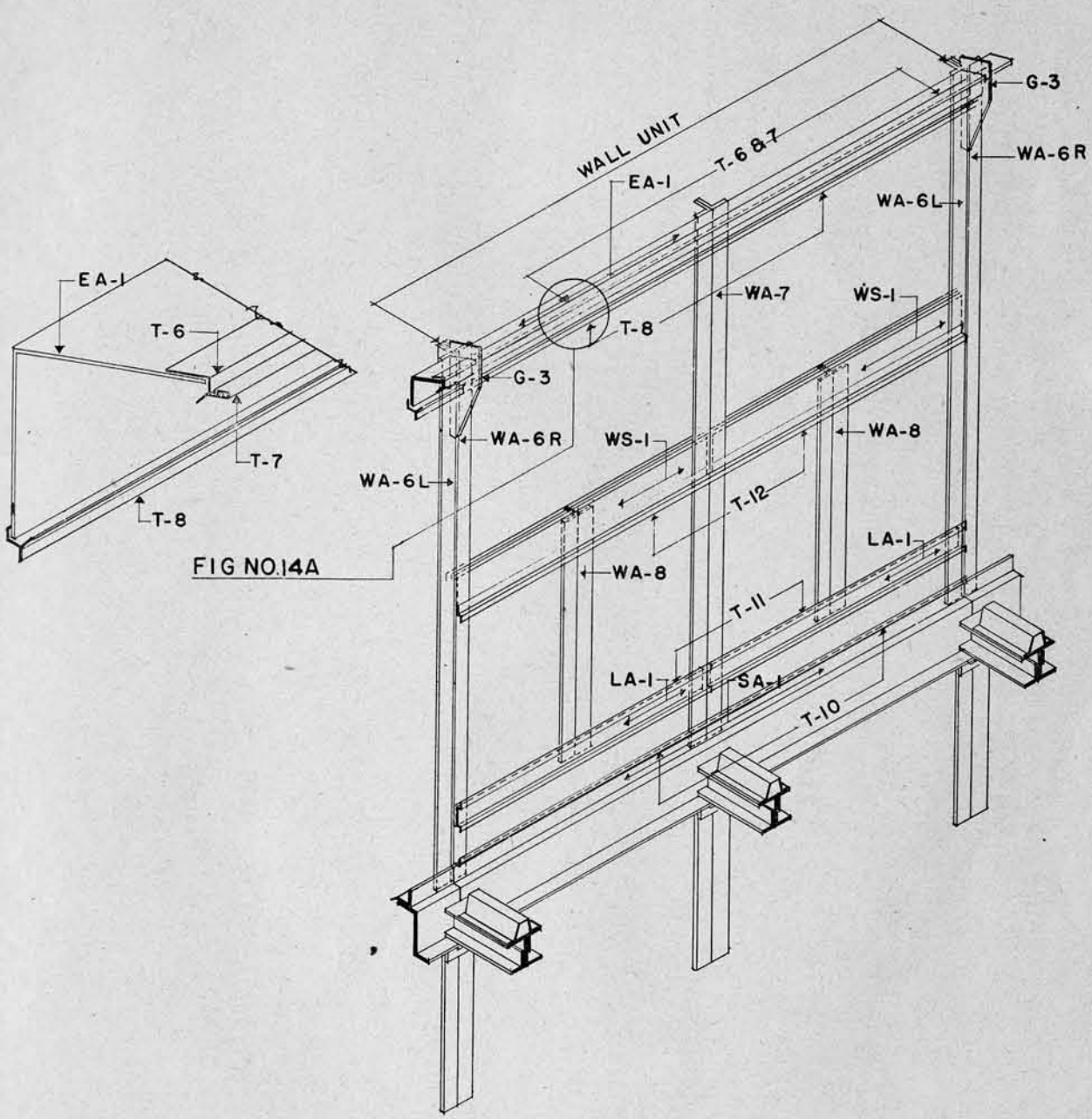


Figure 14. Typical side wall framing.

f. The intermediate wall units are assembled similarly as follows:

Fasten a sill angle SA–1 to the bottom of uprights WA–6R, two WA–7 and WA–6L with louver unit. Window members are placed similar to *b* above using T–12 in lieu of T–9. Place eave angle EA–1 with T–8, louver angle LA–1 with T–11 and members WA–8. (See figs. 14 and 17.)

g. The wall units as completed should be placed at the points where they will be erected.

8. Part Assembly of Truss and Preerection Preparation.

a. While the wall sections are being assembled, the bottom chord of the trusses should be assembled, as follows:

The bottom chord is compised of four BC–1 and one gusset plate G–1 and G–2. Bolt two BC– 1 together back to back and connect the two sections into one member approximately 20 feet long by using gusset plate G–1 as a connector. Fasten gusset plate G–2 on bottom at the same point, figure 15.

Note. Place bolts in G–2 in the extreme end holes only and place G–2 in proper position to receive TT–1, which changes position between trusses alternately with each succeeding truss.

b. Before erection is started, place gusset plate G–3 at each point around building where a truss will occur in order to have it on hand. Also have members TT–1 and the assembled bottom truss chords on hand. It is also recommended that a temporary platform be constructed from the crating material and that a temporary support also be made from crating material to be placed under gusset plate G–2 to support the bottom chord during erection. See figure 25 for suggested size and shape of platforms.

9. Erection of Walls.

a. The erection of the wall units should be started on both sides and from one end of the building and progress toward the other end in preference to starting both ends toward the middle.

b. The end wall units are raised into position and immediately bolt the sill to the joist below. A WA–7 should be loosely bolted at each corner to assist in keeping the end units and the first side wall units together. Temporary bracing from the crating material may be used to brace the two units. Place the BC–2 fastened at the same height as the erected BC–3 to a WA–5 on each side and join the two end units temporarily with loose bolts. Place HS–1 to the bottom of BC–2, DH–1 to outside of BC–2 and to upright on each side of door opening. (See fig. 13.)

c. Raise the first side wall units on each side of building and temporarily bolt the loose corner WA–7 to the end. Immediately bolt the sill to the joist below. (See fig. 13.)

d. As the third unit on each side of the building is raised, place gusset plate G–3 between the WA–6 uprights and bolt the gusset and two wall units together. Before final tightening of these bolts be certain the two holes in G–3 that receive the bottom chord of the truss are squared with the uprights. (See fig. 14.)

e. When the two units and gusset G–3 have been securely bolted, the assembled bottom chord of the truss should be bolted to G–3 on each side of the building. The temporary support should be placed under the center of the bottom chord. The truss tie TT–1 should be bolted from BC–2 on end wall to the bottom chord.

f. Continue erecting side wall units with gussets, bottom chords, and ties until entire building and opposite end wall are erected.

10. Erection of End Gables.

Bolt end roof angle RA–2 R/L and T–14 in position on WA–2, WA–4, and WA–5. Insert and bolt in place members WA–3 between RA–2 and BC–3, and WA–1 between RA and BC–2, loosening previously placed bolts sufficiently to insert T–1. Bolt RA–1 on top of RA–2 R/L. (See fig. 13.)

11. Erection of Trusses.

With the temporary support again in place under the center of the previously erected bottom chord, fasten the two truss angles TT–2 to gusset G–1. From the end of building place the two ridge angles R–1. When the R–1's are in place apply and bolt TA–1 R/L and also to gusset plate G–3, inserting eave flashing EF–1 and T–15 R/L before bolting to the eave angle EA–1. (See figs. 13 and 15.)

12. Application of Side Wall Panels at Corners of Building.

Before proceeding further with the roof framing, the building should be braced by applying some of the side wall and end wall panels. Place into position a WP–2 at a right hand exterior corner and

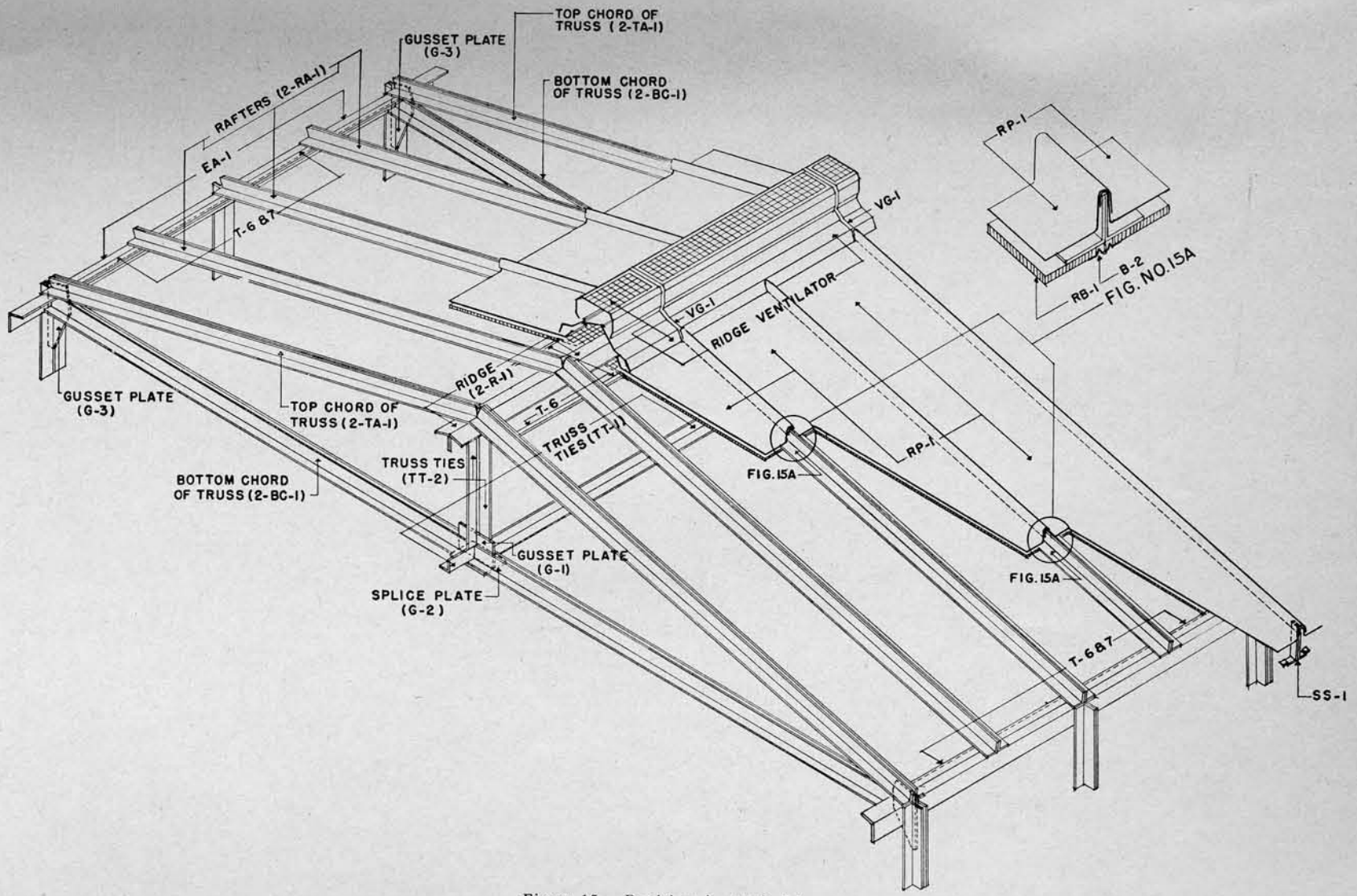


Figure 15. Roof framing typical bay.

securely bolt the panel and the previously loosely fastened WA–7 together. A second WP–2 is placed into position and the two panels securely bolted together on the WA–7. The other edge of panel is only loosely fastened until the balance of the panels are erected. Place similar panels on opposite diagonal corner. On the ends of building place GP–1 bolted securely to the corner WA–7, but only loosely fastened to the WA–2. Panels at other corners are similarly applied.

13. Erection of Trusses.

Continue the erection of roof trusses and ridge angles as described in paragraph 8 using T–6 in lieu of T–15.

16. Ridge Ventilators—Preerection Assembly and Erection.

The ridge ventilators should be preerection assembled as shown in figure 18.

a. The ridge ventilator is assembled by holding one end cap in a vertical position attaching flashing by pushing tabs through slots in the end cap and folding tabs over. Caution should be taken that flashing laps over the edge of the end cap and does not butt. The baffles and ridge cap should be attached in like manner to the end cap. The other end cap is attached to the various parts in the same manner and the top insect screen installed.

b. The ventilators are erected by placing the vent gutter VG–1 over the rafters, approximately every

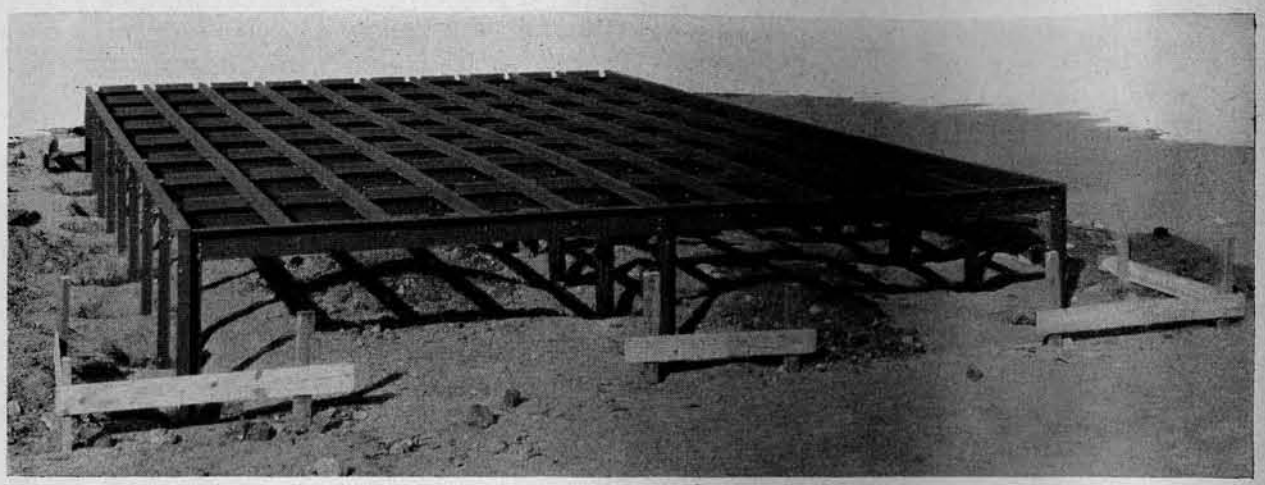


Figure 16. Foundation completed.

14. Erection of Roof Rafters (fig. 15).

The roof rafters are erected by fastening two RA–1 to the ridge R–1 and eave angle EA–1 about every 2 feet.

15. Application of Roof Panels.

The roof panels RP–1 must be placed by starting on one side of the ridge and from the right-hand end of the building and proceeding toward the left end of building. Place ridge flashing RE–1, GF–1 and GF–2 before bolting first and last roof panel. The roof on the opposite side of the ridge may be laid at the same time but must be also started from the right-hand end of that side. It will be noted that the small bent end on the RP–1 is always towards the ridge. Apply window stops at end of roof panels. (See par. 19*c* and fig. 15.)

4 feet 0 inches, and the vent flashing VG–2 at the ends. The ventilator is held in place by bolting the slotted clips to the rafters.

17. Application of Wall Panels (figs. 17 and 19).

a. The application of wall panels should now be continued, using WP–1 under windows, starting again from the right hand end of the building. (See fig. 17B.) When the left end of building is reached the temporarily fastened bolts of WP–2 are removed and WP–2 must be lifted sufficiently to permit the last WP–1 to slip under.

b. It will be noted that at the uprights between the windows a cover batten EB–1 is applied. (See fig. 17A.)

c. The application of the end wall panels should

be started from each corner. (See fig. 19.) See plate No. 3 for panels over door and corridor connection.

d. Place door sill SA–2 and door jambs DJ–1–R/L before bolting wall panels to WA–5. Fasten door jamb to sill and head at clip angles.

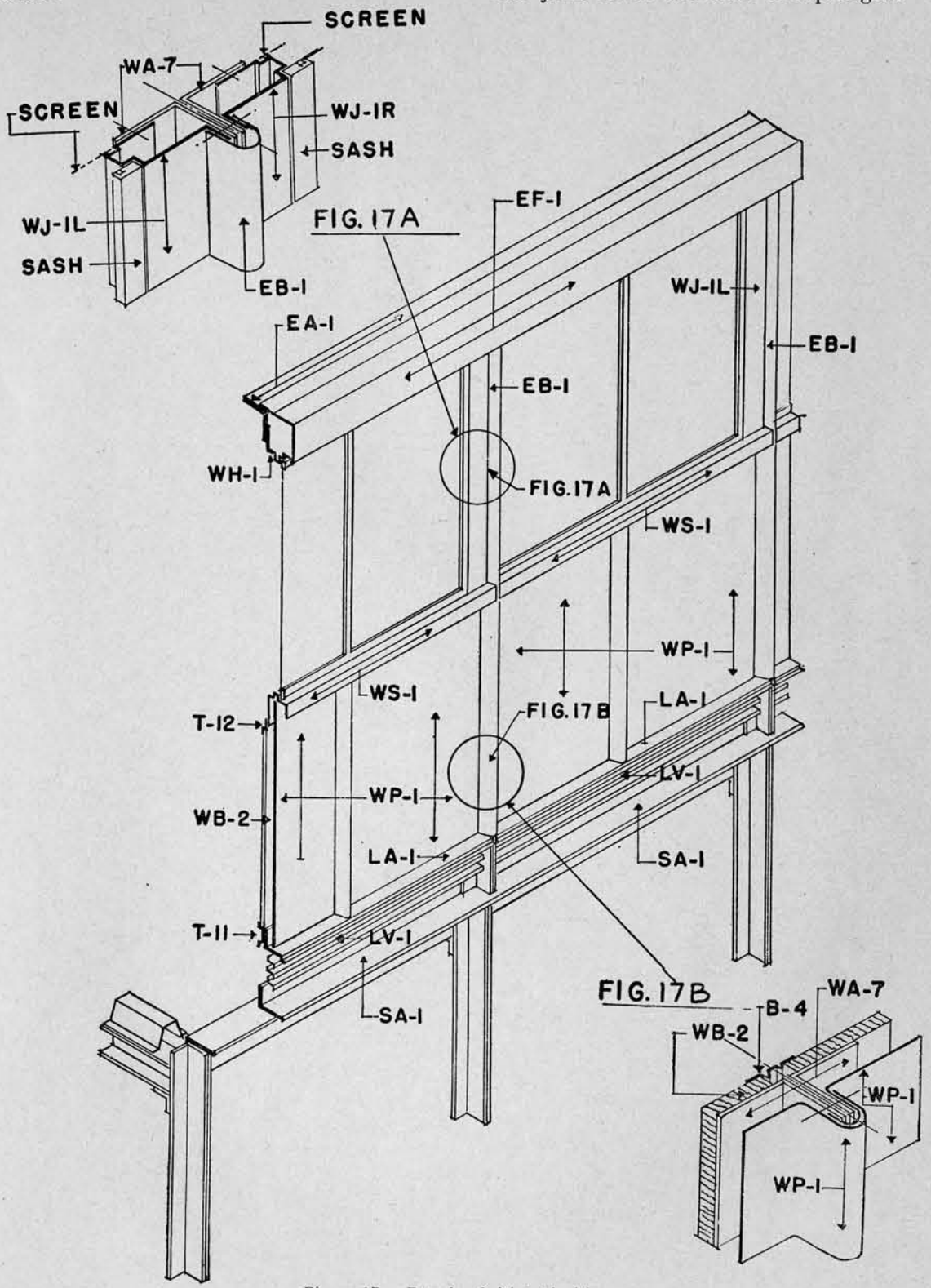


Figure 17. Exterior-finish-typical bay.

18. Laying of Plywood Floors.

Check floor framing and purlins for alignment before placing the plywood with the marked "bottom" side down. It is suggested that the entire floor be placed before any panels are fastened. The 4 feet 0 inches dimension of the boards run the length of the building. The boards are fastened to the purlins by 1½ inch drive screws with smooth pivot point, approximately 18 inches o. c. around the edge and approximately ½ inch from the edge.

vided with a slot in the center of the bottom rail for a window stay WS–1.

b. The window stay WS–1 is applied to the metal panel by two sheet metal screws at a point which will give the maximum opening.

c. The windows along the sides of the building are held open by a stop bolted at the end of the roof panels. Use a double stop SS–1 between two windows and a single SS–2 at the ends. (See fig. 15.)

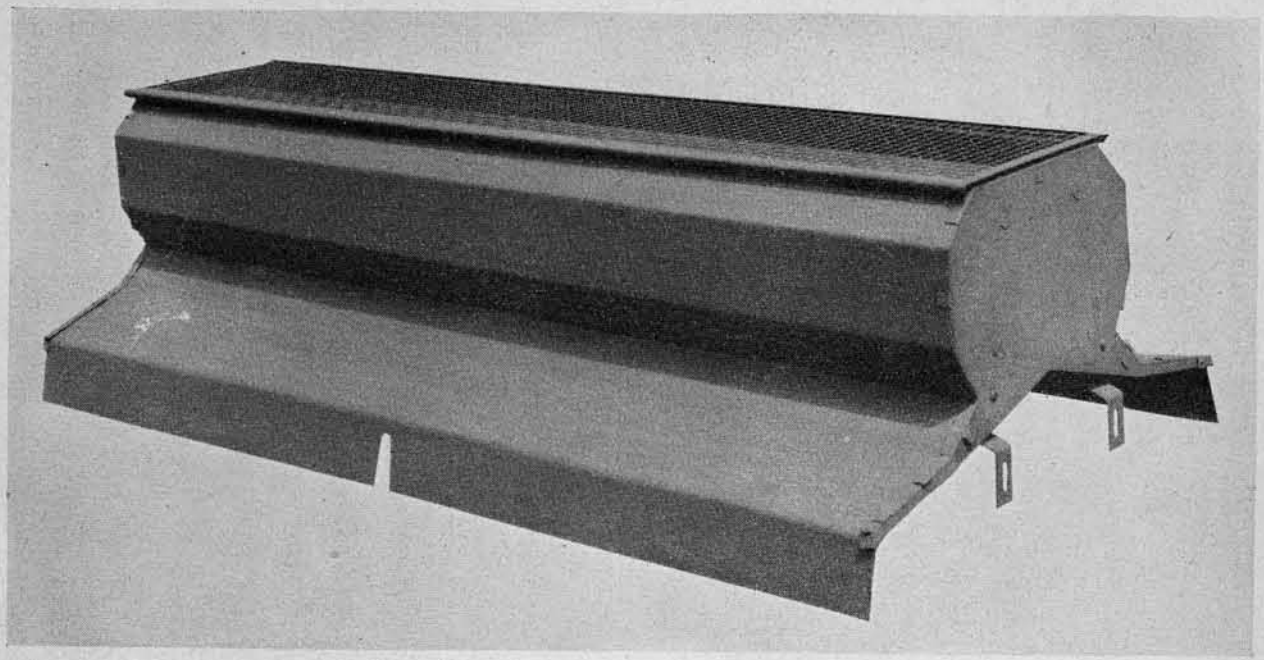


Figure 18. Assembled ridge ventilator.

19. Installation of Windows.

a. The windows have the hinges applied at the factory and are applied to window head WH–1 by four sheet metal screws. It will be noted that the four windows for the ends of the building are pro-

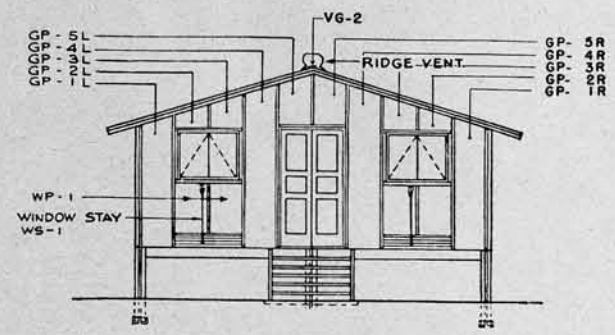


Figure 19. End elevation kitchen-office building.

20. Installation of Doors in End of Buildings.

The hinges for the doors are factory welded to the door jambs, DJ–1R/L. Install the lock into position with screws and apply door knobs. The doors are set in a closed position and fastened to the hinges. It is recommended that several thicknesses of wrapping paper (not over ⅛ inch) be put under bottom edge of the door when setting in place to provide clearance.

21. Interior Finish.

a. The interior finish is held in place by "T" and "B" members. The "B" (battens) and members T–2, T–3 R/L and T–4 are fastened with 2 inch drive screws, placed in the holes provided and driven between the framing members. In most cases the end of the "B" members are held in place by the "T" members.

b. The roof finish RB–1 is approximately 1 foot 10 inches by 9 feet 6 inches and is held in place by a T–6 (T–15 at ends of building) at the bottom and a T–6 bolted at the top to the rafters. The long edges of the finish are held up by the interior battens B–2.

c. The side wall finish WB–1 is approximately 1 foot 10 inches by 6 feet 0 inch and is held in place by a T–10 at the bottom and a T–8 at the top. The finish is also held by the application of the battens B–1. The finish under the windows is WB–2 and held at top by T–9, bottom T–11 and B–5 at sides. Where a window and finish WB–1 butt, T–2 is used.

d. Finish WB–3 is placed between side wall and roof and is held by T–8 at bottom and T–7 at top.

e. The end walls have a WB–1 on each side of window and a WB–2 under each window. The members are marked, T–5 for corner, T–2 and B–5 at sides of windows, B–4 under windows and T–4 on each side of door. In the gable are the following finishes and battens: GB–1, B–6, GB–2, B–7, GB–3, B–3, GB–3, B–7, GB–2, B–6 and GB–1.

22. Screens.

a. The window screens are installed on the interior of the building and are held in place by eight 5/8 inch sheet metal screws with a 3/8 inch washer.

b. The insect screens at ridge ventilator are held in place with 3 1/2 inch battens.

23. Partitions in Kitchen and Office Building.

The interior partitions in the kitchen and office building are constructed from the material furnished under a bill of materials and according to details shown on plate No. 3.

24. Fixtures.

The sinks and counters are constructed from the material furnished under a bill of materials and as detailed on plate No. 2.

25. Step Construction.

The steps are field constructed from crating material using 2 inch material of the wider sizes. The steps should not be fastened to the building but should set approximately 2 inches away.

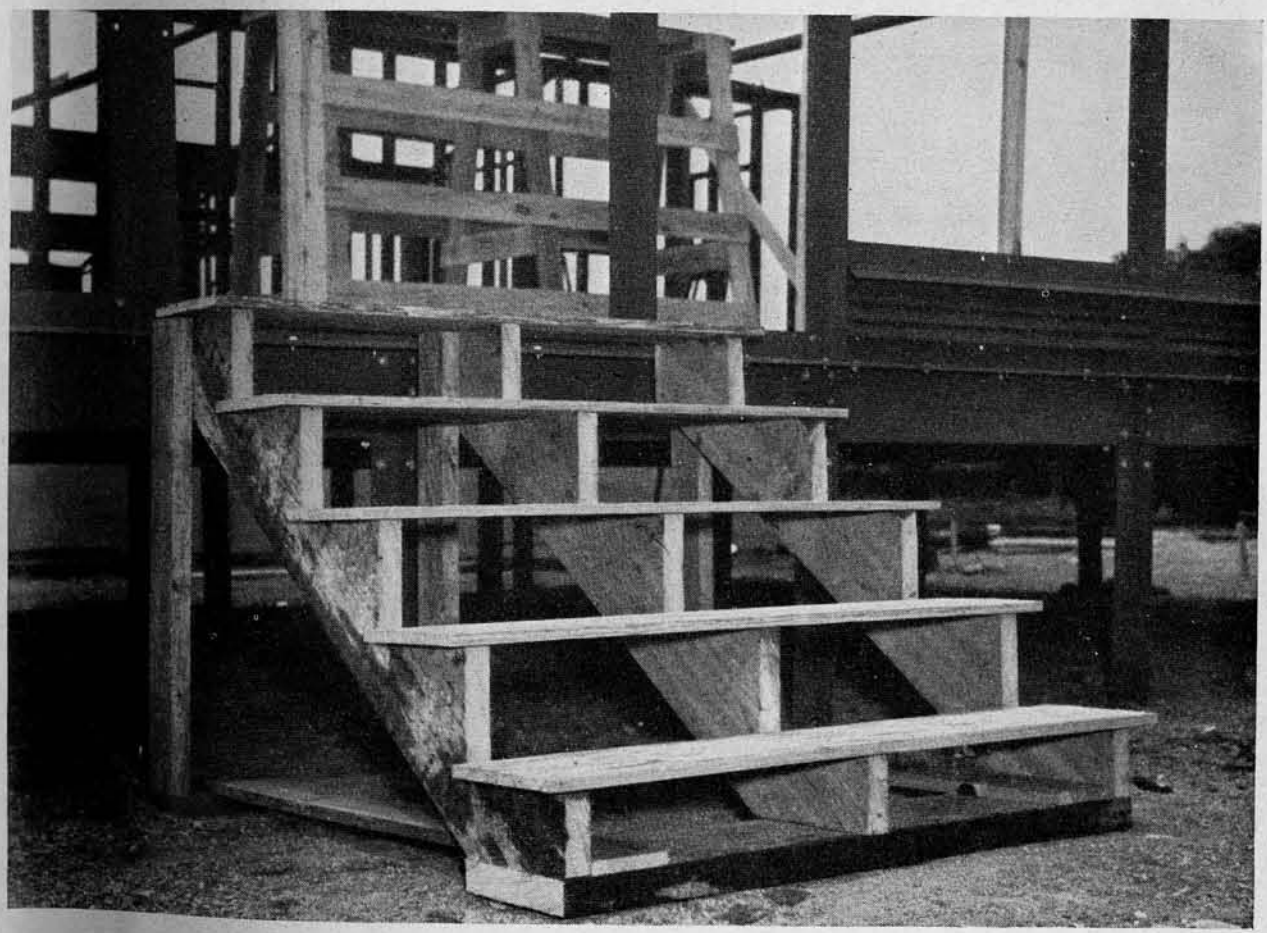


Figure 20. Step construction.

Section IV

ERECTION PROCEDURE OF WARD BUILDINGS

26. General.

a. The general principles of erection described in section III, are applicable to the ward wings; however, as the interior lining of these buildings is also metal, slight departures are considered necessary. It will be noted that component members of these ward buildings are generally similar to those for the building in section III and are prefixed with the letter *W*. For piece markings to be used in the ward buildings (see plates 1 through 37 inclusive).

b. The photographs indicate typical conditions and were made from a pilot model 32 feet long. The views of the interiors were taken before a coat of paint had been applied, the wall panels do not show perforations at the windows and the photos are inserted only to indicate position of partitions, ceiling panels, and general conditions.

27. Foundation Posts, Joists and Purlins.

The foundation posts, floor joists, and purlins are assembled and should be erected as described in section III. Where the exercise court occurs, plate No. 1 wire mesh panels are provided and will require a trench for application. These panels must be applied when the joists and girders are in place and before the holes are back-filled.

28. Laying of Floor.

a. When the metal floor joists and purlins are in place, a departure from the standard procedure must be observed. The plywood floors, particularly in the single rooms in the wards, must be installed and covered with canvas before the exterior wall finishes are applied. It is recommended that the sill angles, WSA–, be temporarily bolted in position to help in placing the plywood panels. The end of the plywood panels should be placed against the sill angle, the center edges placed together and lowered into place. The plywood panels should be fastened down with 1½-inch drive screws approximately 12 inches on center where covered with canvas, to bring the surface of the plywood flush and avoid a future cracking of the canvas. All screw heads must be flush or slightly below the surface

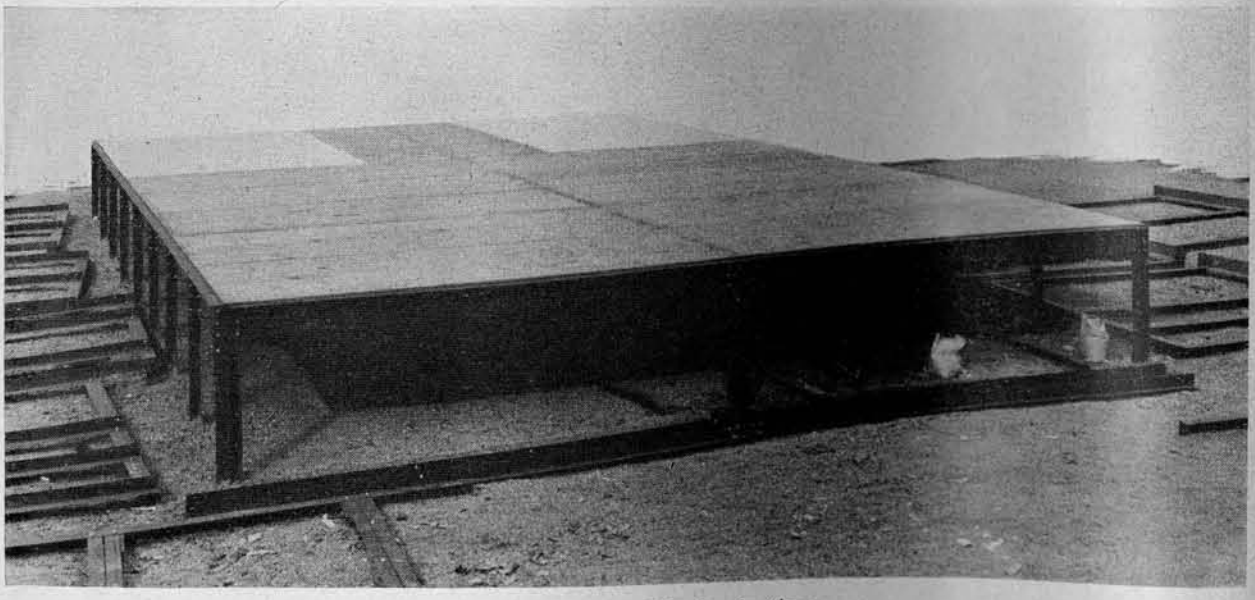


Figure 21. Plywood flooring in place.

of the plywood. Extreme care must be exercised that the surface of plywood is free of all stones, gravel, or dirt which will form a raised place when the canvas is applied.

b. A generous coating of white lead paste of a consistency which will fill the holes should be applied just ahead of the roll of canvas being applied. The canvas should be so placed that one edge will be at

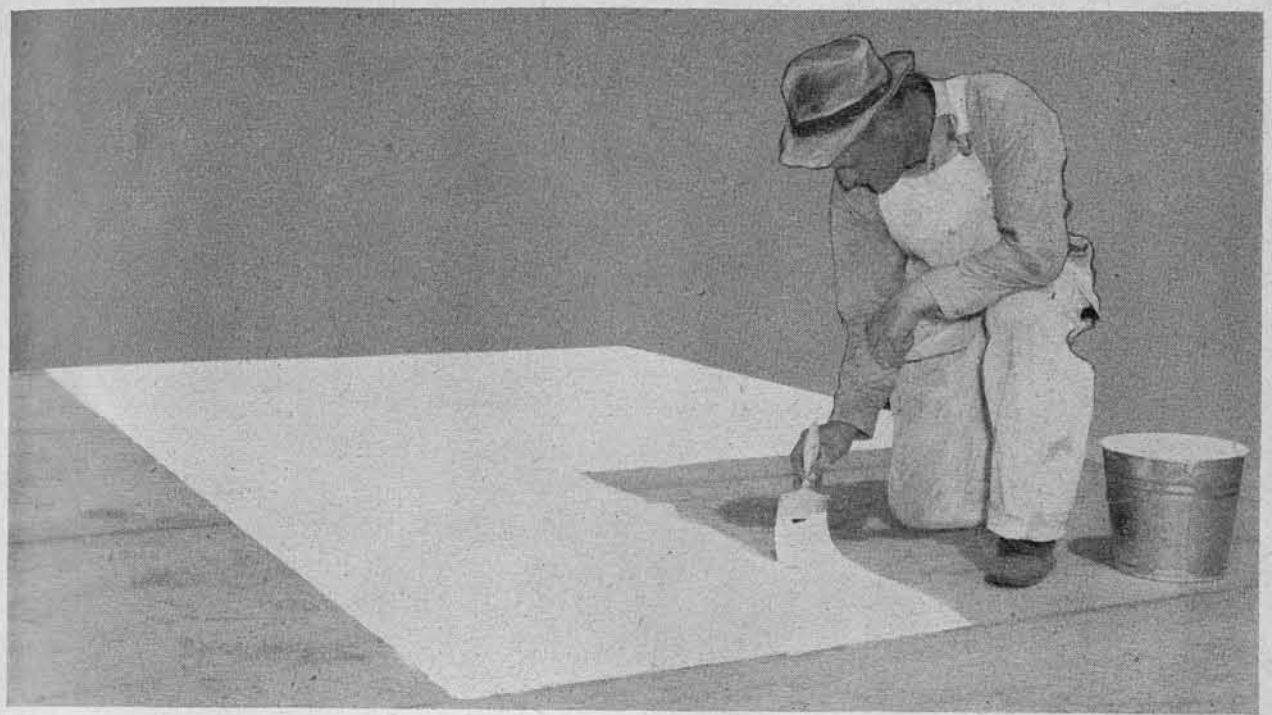


Figure 22. Applying white lead paste.

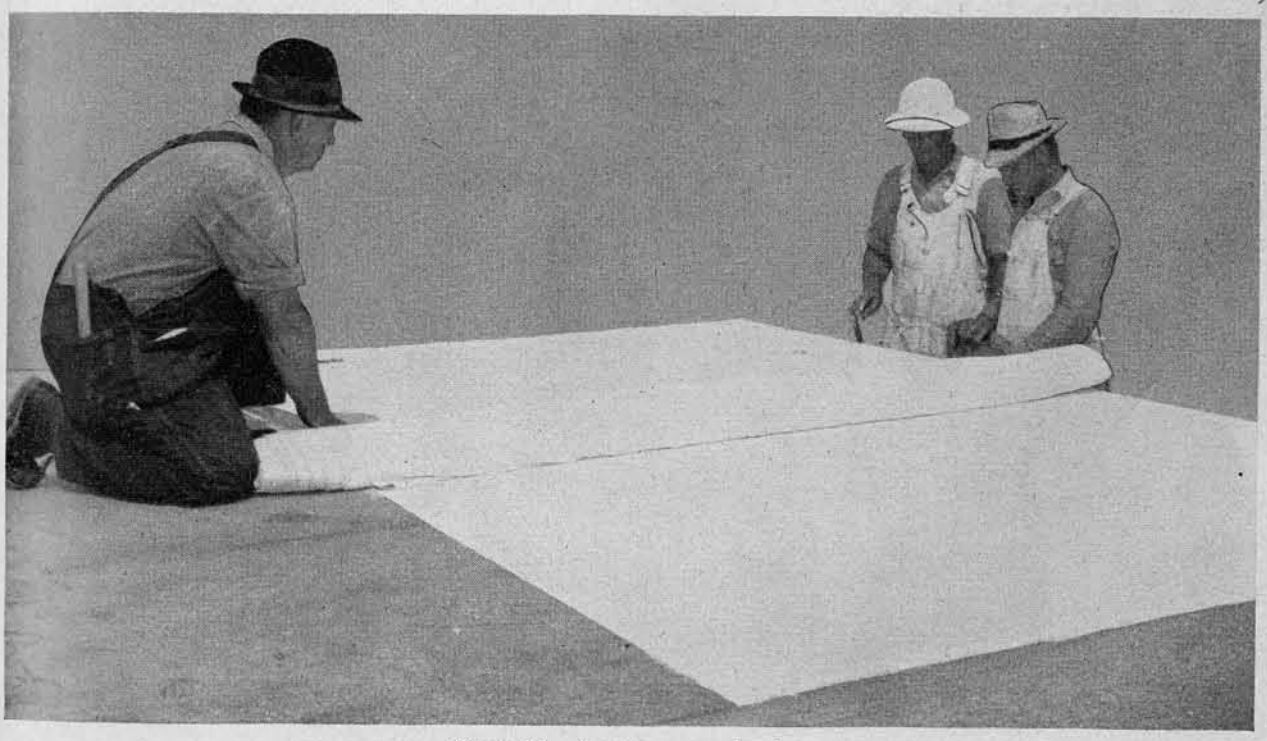


Figure 23. Laying canvas flooring.

least ¾ inch under the room door when in a closed position and the opposite edge at least ¾ inch under the interior finish at walls. The canvas should be bedded dry and stretched taut by rolling it into the lead and tacking it while taut along all edges with

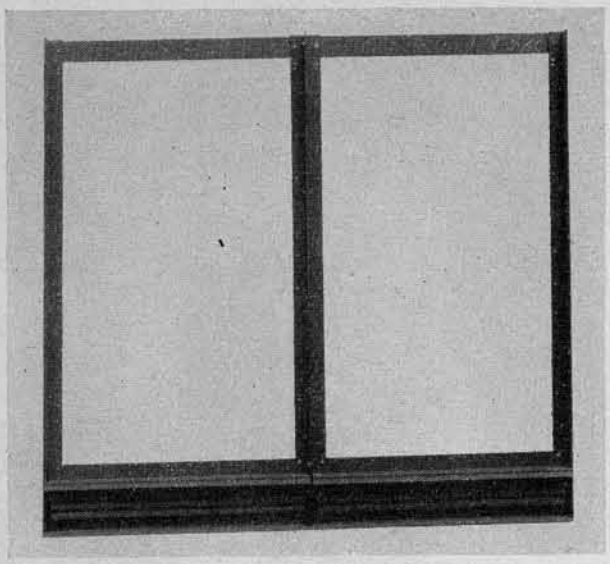


Figure 24. Typical side wall framing.

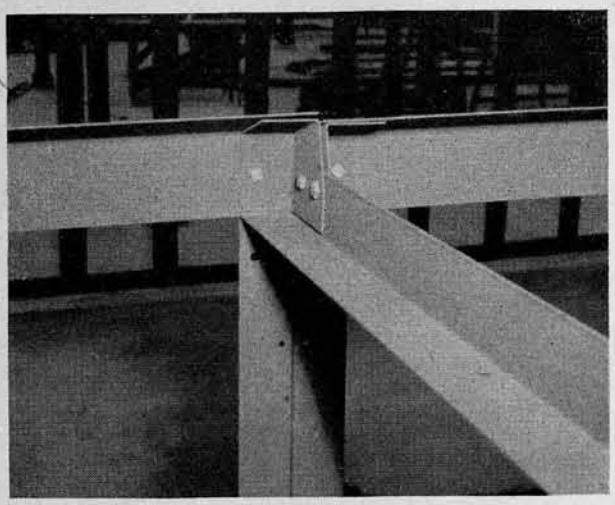


Figure 25. Connection of truss to side wall.

No. 6 galvanized carpet tacks, spaced not over 1¼ inches on centers under the lines of all partitions and under the interior finish at walls, so that all tackings will be fully concealed in the completed building. The surface of canvas floor covering shall be drenched with water and before it has dried shall be painted with the white lead and oil undercoat of a consistency that will fill, bond with, and coat, the surface without much penetration of the body of canvas. When dry the flooring should be covered with crating material for protection from damage during the wall and roof erection. The finish coat consisting of a heavy flowed-on brush coat of floor and deck enamel shall be applied after all erection has been completed.

29. Assembly of End and Side Wall Units.

The end and side walls of these two buildings cannot be preerection assembled as in the standard buildings in section III. The window jambs, head, and sill must be applied after the metal interior finish; therefore only the sills, uprights, eave angle with clip angle WCA–1 R/L attached, louver angle, screens, and louver vanes should be preerection assembled.

30. Erection of End, Side Wall Units and Part of Trusses.

The erection of these assembled wall framing units can progress as described in section III, except the clip angle WCA–1 R/L fastens to the bottom chord of the trusses in lieu of a gusset plate G–3. Plate No. 12 shows the framing elevations and the order in which the members are to be placed.

31. Application of Finish of Exterior Walls.

a. When the wall framing is erected and temporarily braced with either crating material or the bottom chord of the trusses, the interior wall finish should be applied. The interior panels are factory fabricated and should be applied by means of sheet metal screws to the sill, uprights, and eave angles. Details of the panels and location of screws are shown on plate No. 13. The panels are set in position by raising the panel until the Z member will hook over the sill angle and then lower, pressing the panel firmly against the uprights.

b. The window frames in the ward buildings are assembled into a complete frame and are installed after the application of the interior wall panels. They are applied by fastening the head to the eave plate with bolt and by means of S. M. screws to the stiffener of the wall panels at the sill.

c. The exterior finish is applied similar to that described in section III, except that the upright angles WWA–8 are installed when the metal panels are applied and are fastened to the louver angle with bolts and to the panel stiffener with S. M.



Figure 26. Erecting trusses and showing suggested platforms.

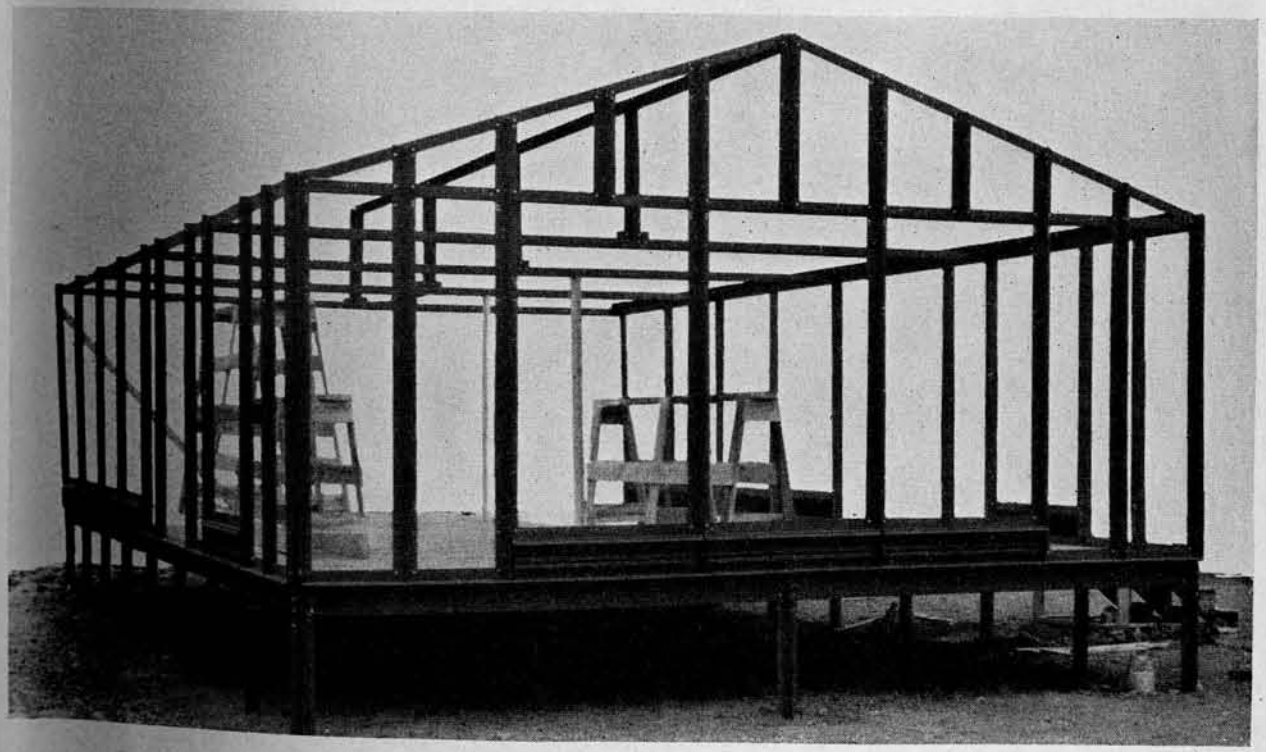


Figure 27. Wall framing completed.

screws. Plate No. 2 shows an elevation and the panel markings.

d. The windows, screens, and doors are installed after the roofing has been applied and in a manner similar to that described in section III.

32. Erection of Roof.

a. The roof erection is similar to the erection of a standard building described in section III. The wire guides WWG–1 should be bolted to the rafters (plate No. 34), and the chicken wire panels WIS–1 with the insulation should be located between the rafters before the metal roof panels are placed in position. The insulation should be placed with the exposed cotton side down.

b. The details of roof ventilators and the attachment to the building are shown on plate No. 11 and section III.

c. Catwalks from crating material should be provided on the bottom chord of the trusses to permit access to the electric wire supports and fixtures.

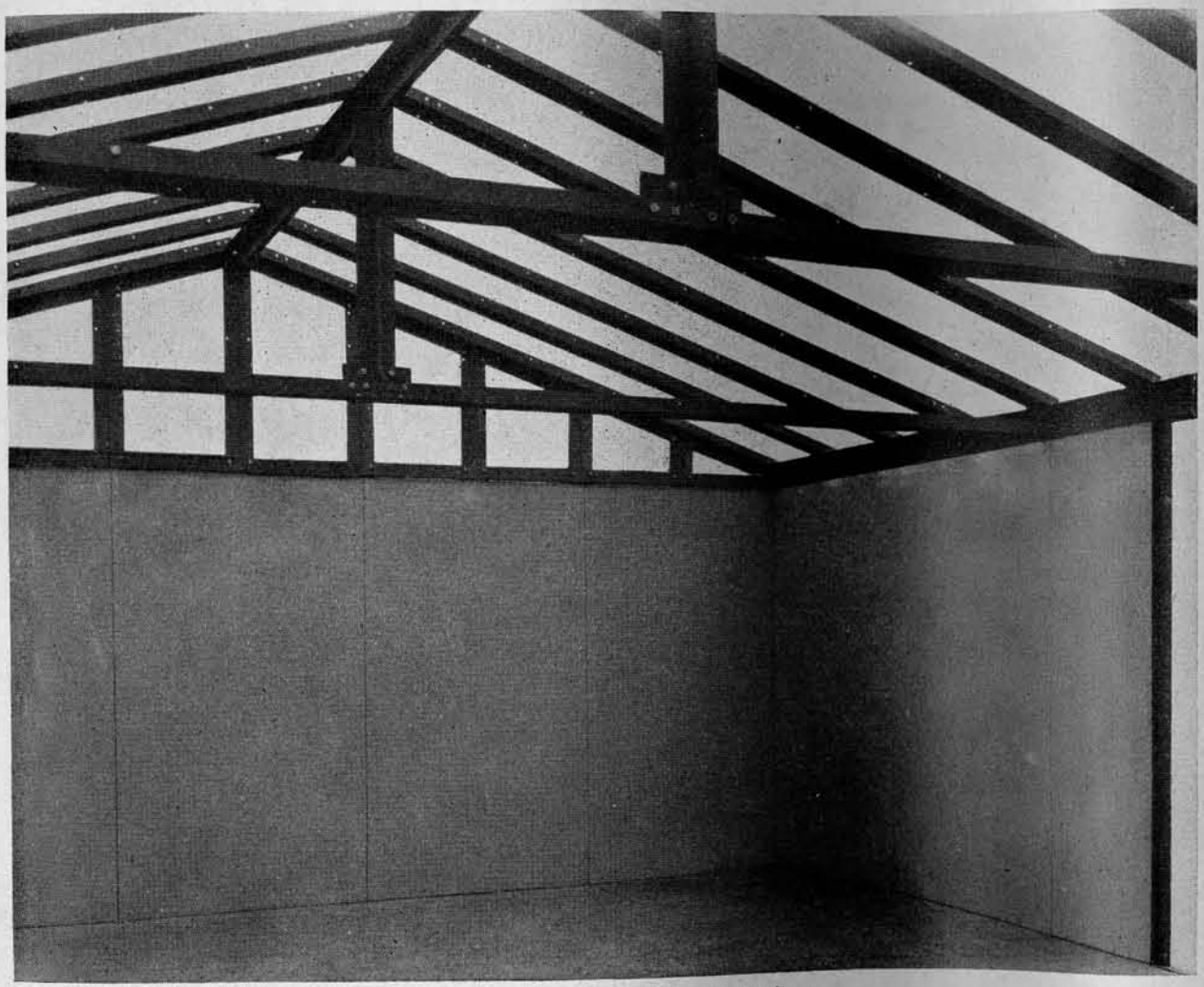


Figure 28. Interior finish panels in place.

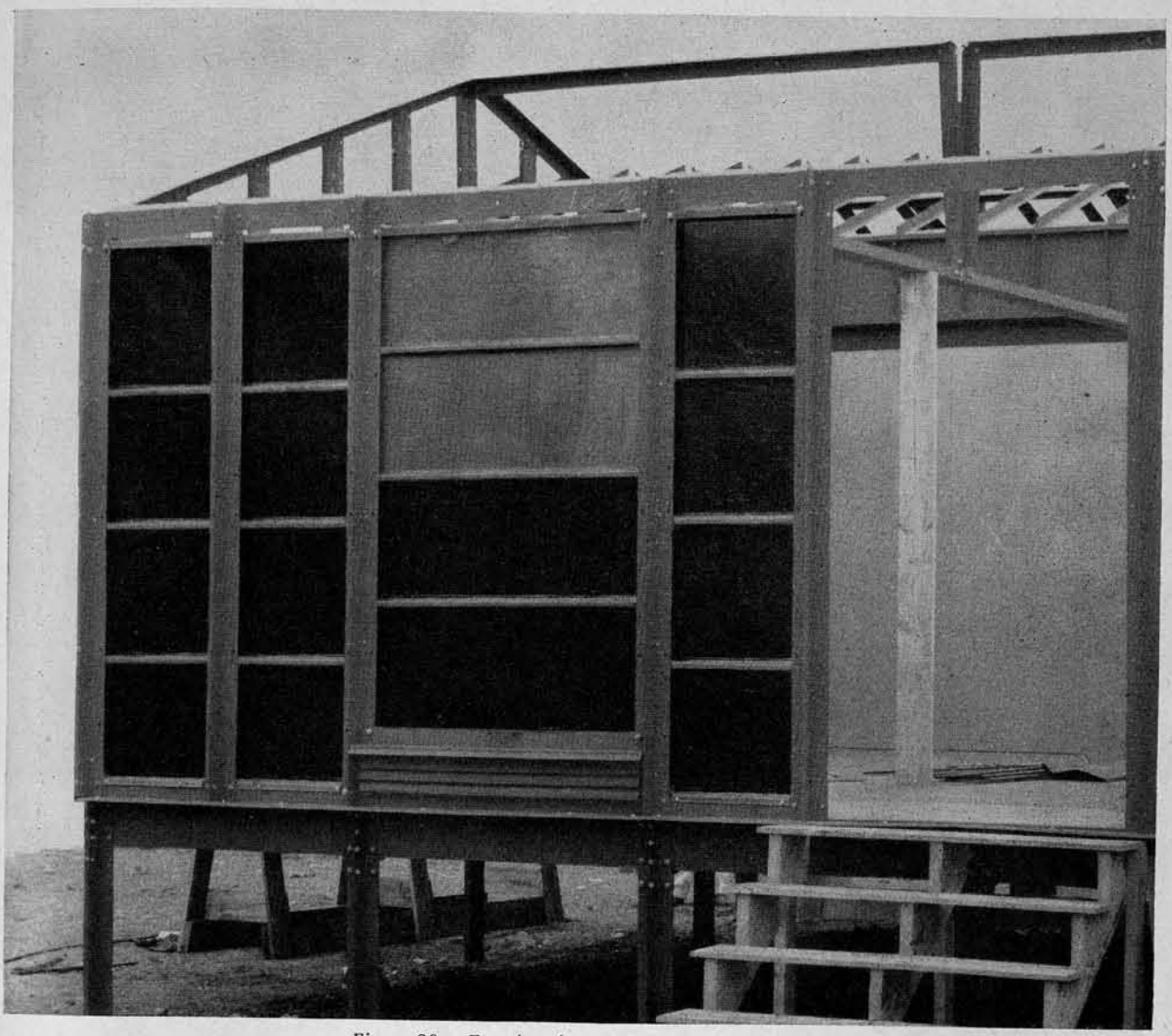


Figure 29. Exterior view of interior finish panels.

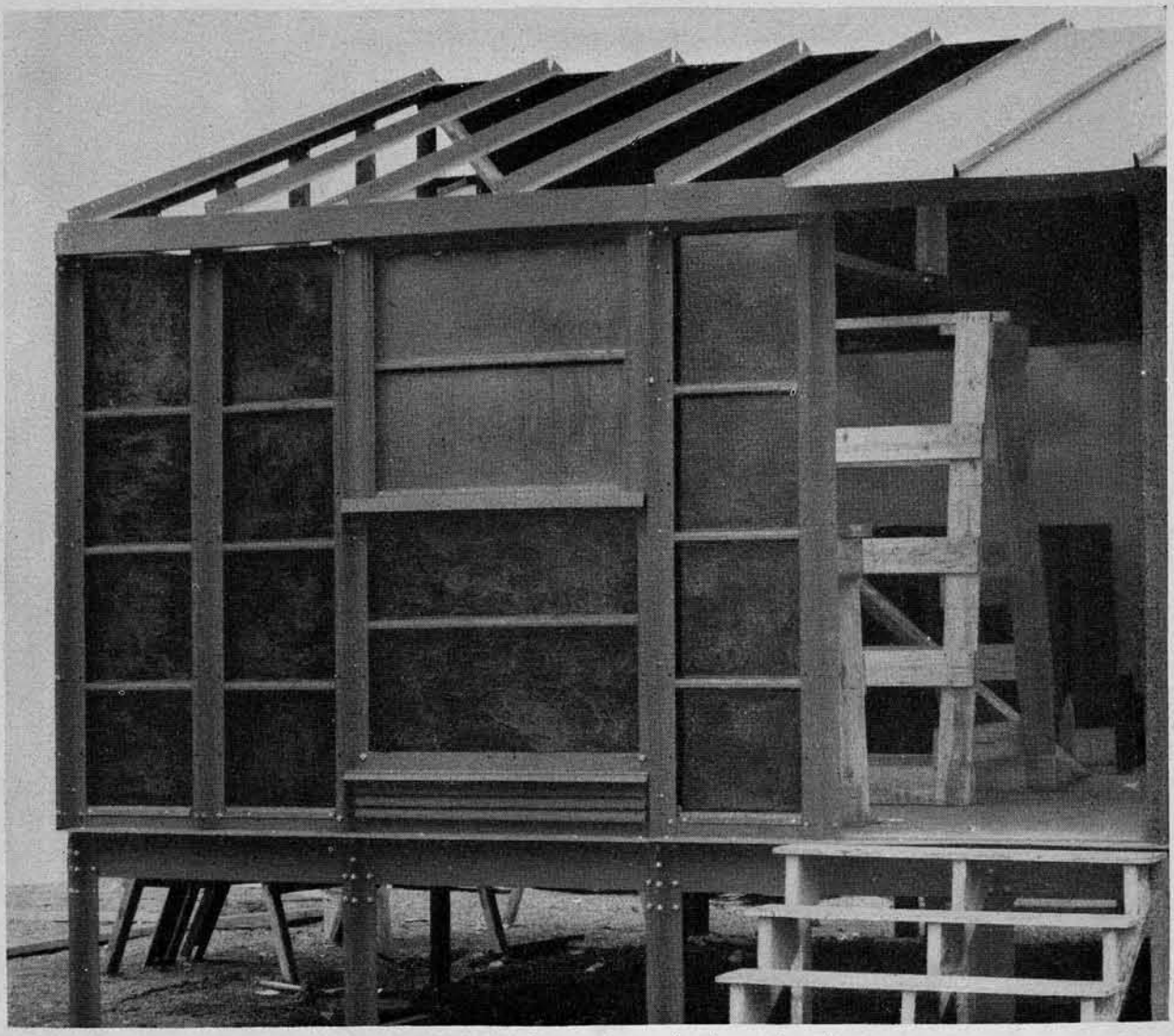


Figure 30. Exterior view showing roof rafters and roofing.



Figure 31. View of completed exterior side wall.

Section V

INTERIORS—WARD BUILDINGS

33. Partitions in Wards.

a. The interior partitions for the ward buildings are factory fabricated, ready for assembly. The assembly consists of face panels held together with partition spaces which slide into position from either the top or bottom of the face panel, so that the clips on the spacers hold the face panels. The clip angles should also be fastened to the panels during assembly.

b. The partitions are assembled into units which correspond with the unit markings shown on plate No. 15 and the details on plates Nos. 16 and 17.

c. It is suggested that the location of the holes in the flooring for fastening the clip angles be established by dropping a plumb line from and at the end of the bottom of the truss and the use of a chalk line between these points. The holes in the flooring should be made slightly smaller than the cap bolts and the cap bolt started into the hole before a partition unit is set into position.

d. The base cover and cornice cap are screwed into place after the partitions have been firmly set in place.

34. Ceilings in Wards.

The ceilings in the wards are in panels and are to be installed before the partitions are set in place and with Phillips oval self centering type bolts where partitions will not cover bolt heads. (See plate No. 8.)

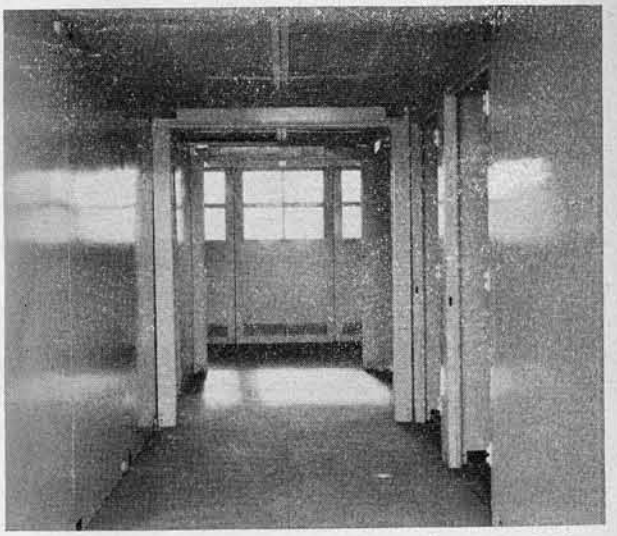


Figure 32. Interior view looking towards single ward, closet, entry and day room.

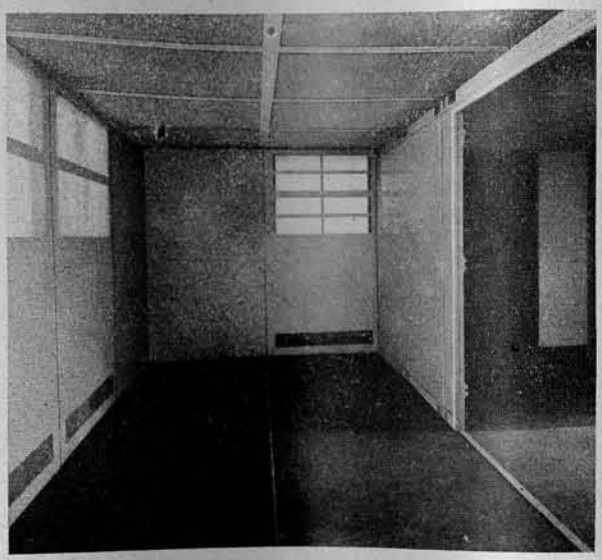


Figure 33. Interior view day room.

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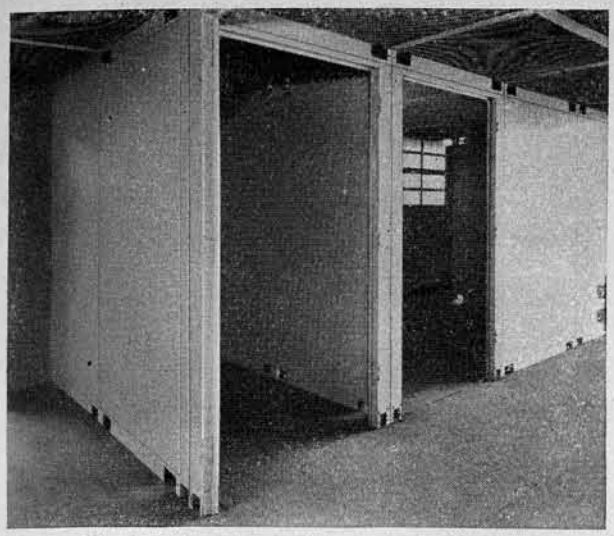


Figure 34. Interior view looking towards closet and single wards.

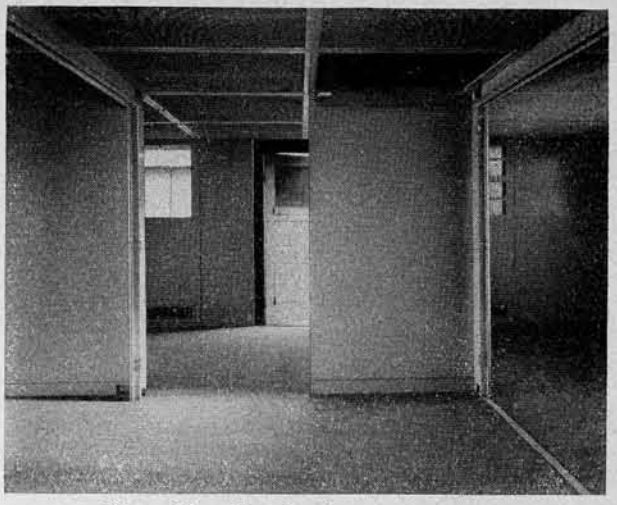


Figure 35. View looking towards entry.

Section VI

ERECTION PROCEDURE OF UTILITY BUILDING

35. General.

The general principles of erection described in section III are applicable to the utility building, however, the interior lining of this building is metal and slight departures in the procedure are necessary.. The component members are similar to those in the kitchen and office building and are prefixed with the letter *U*. For piece markings see parts list and plates 20 through 33 inclusive.

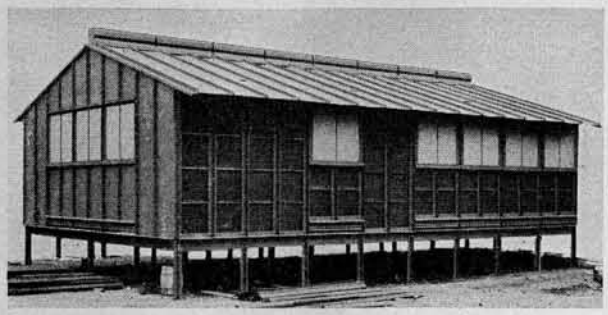


Figure 36. Utility building being erected.

36. Foundation Posts, Joists, and Floor Panels.

a. The foundation posts and floor joists are erected as described in section III.

b. The purlins are omitted on this building and metal floor panels or pans are placed on the joists. These floor panels (plate for markings) are bolted to the joists with 2-inch bolts and girders with ¾-inch bolts and the screeds are bolted ¾ inch to the panels. The blockings under partitions, plumbing fixtures, and the collars around holes should be carefully placed and fastened to the panels before the concrete is poured into the pans. The ends of blockings should be turned down to prevent the concrete from filling the blocking.

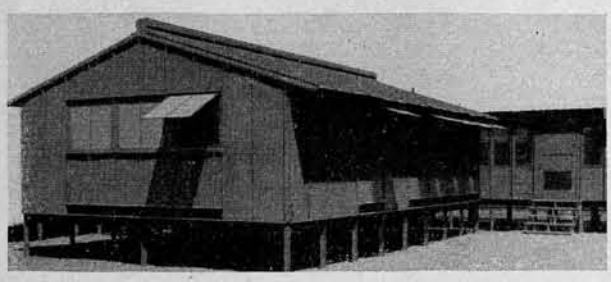


Figure 37. Completed utility building.

c. The mixture of the concrete should be such as to provide a plastic workable consistency with the use of the least possible quantity of water. The concrete should be poured to the top of the screeds and leveled off to a smooth wood floated finish.

37. Side Walls and Roof.

The side walls and roofing, inside and outside panels are assembled and erected similar to those in the ward buildings. The drawings should be followed closely as the wall partitions as well as the interior partitions provide the proper holes for partitions and plumbing fixtures.

38. Plumbing Fixtures and Pipes.

a. The plumbing fixtures are fabricated ready for assembly and erection. The water closets fit on the seats in the floor panels. The urinals and lavatories are placed and fastened to the walls. Some field punching is required. (See figs. 41 and 42.)

b. All the piping is cut to size and bears identifying marks as indicated on plate 35. It is suggested that 2 by 4 material be placed between the floor girders and ample strapping from the crates be utilized to hold the piping under the floor to the proper level and slope. (See fig. 39.) Some of the piping can be assembled before placing into position; however, care should be exercised that no piping is assembled which will necessitate unassembly to place it into position.

39. Ceilings.

Ceilings are provided similar to those shown on plate No. 18.

40. Cabinets and Work Tables.

The assembly of the cabinets and work tables should be done carefully. See the plates and figure 50, for the details of assembly.

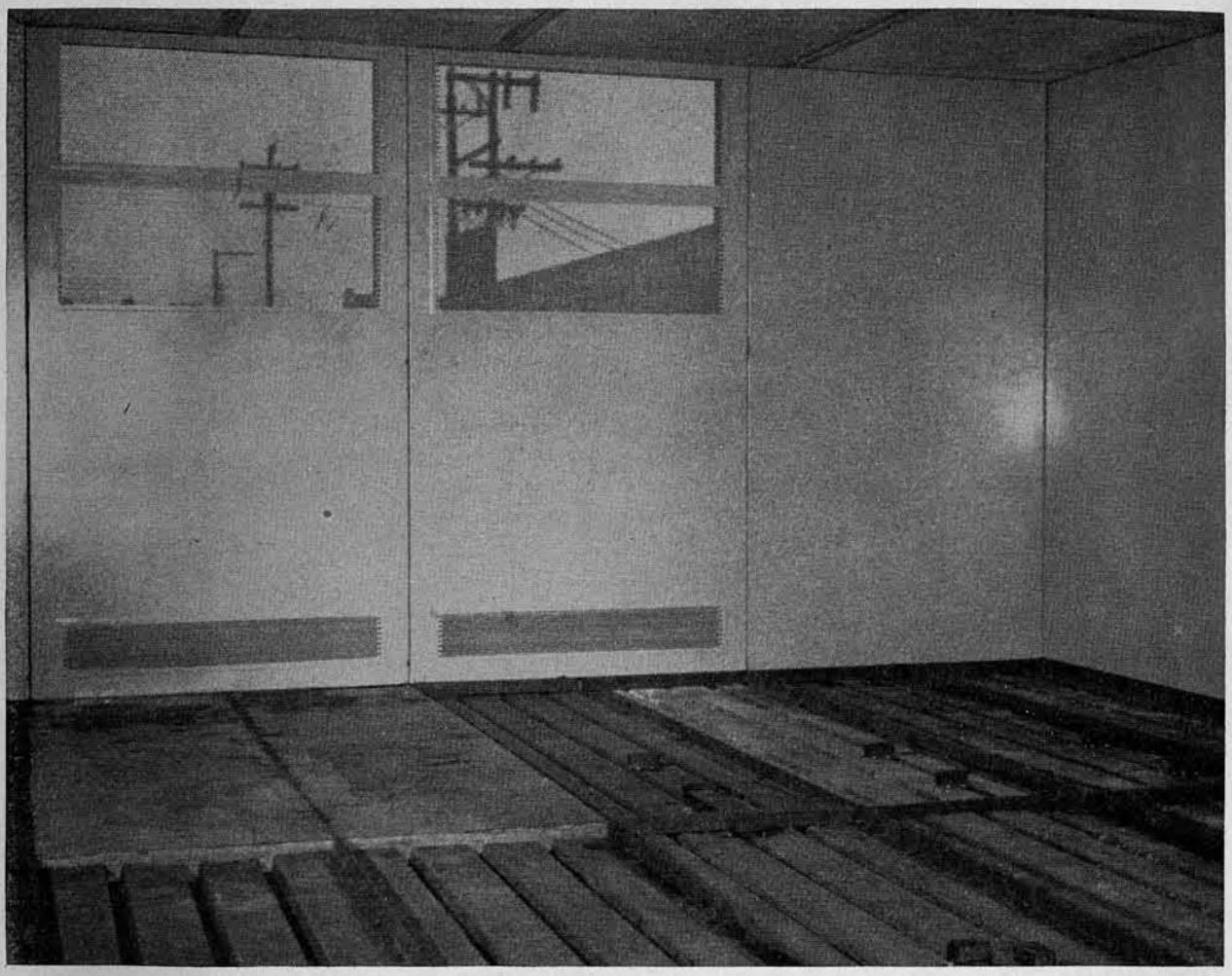


Figure 33. Interior of utility building showing floor panels.

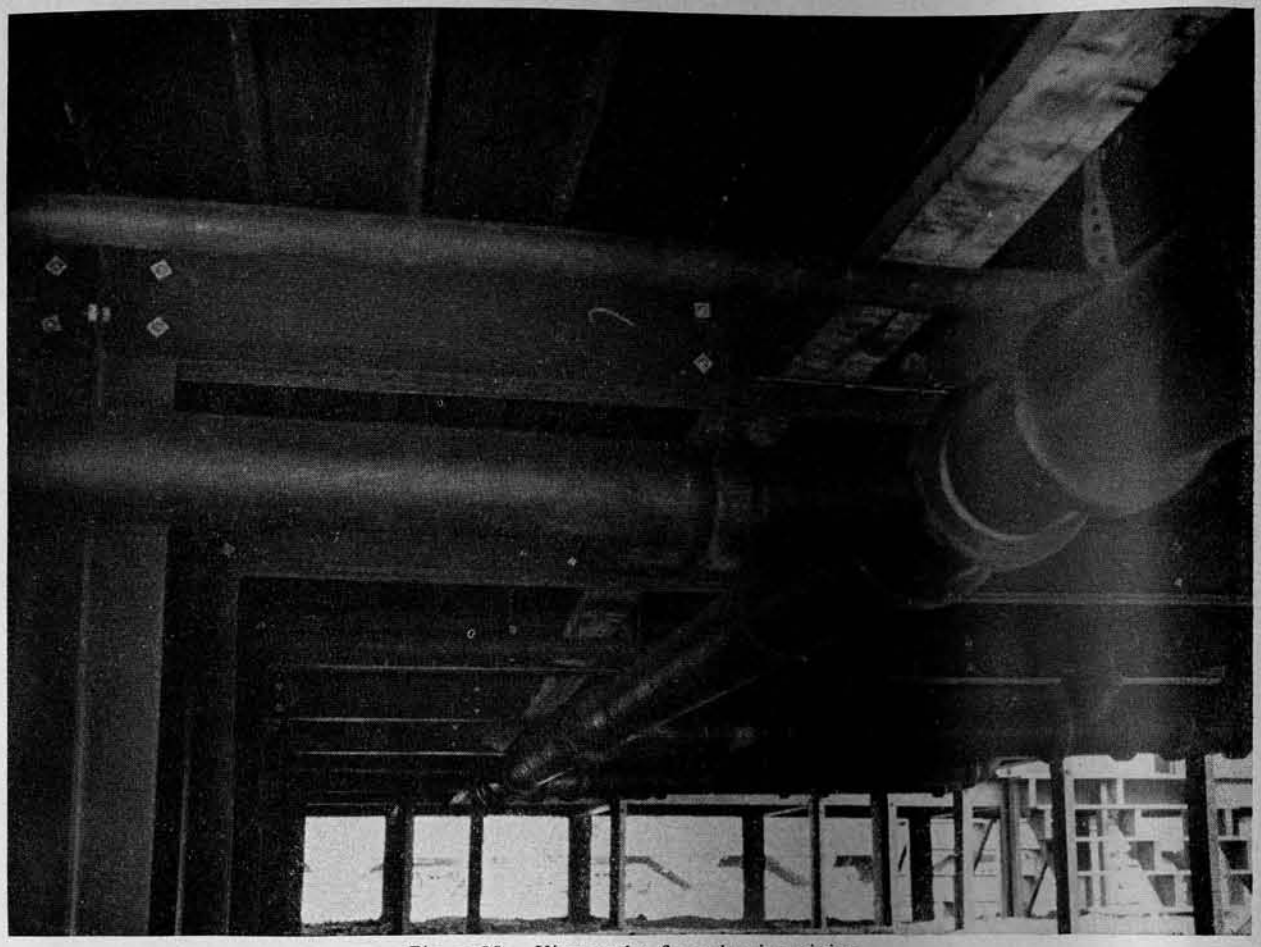


Figure 39. View under floor showing piping.

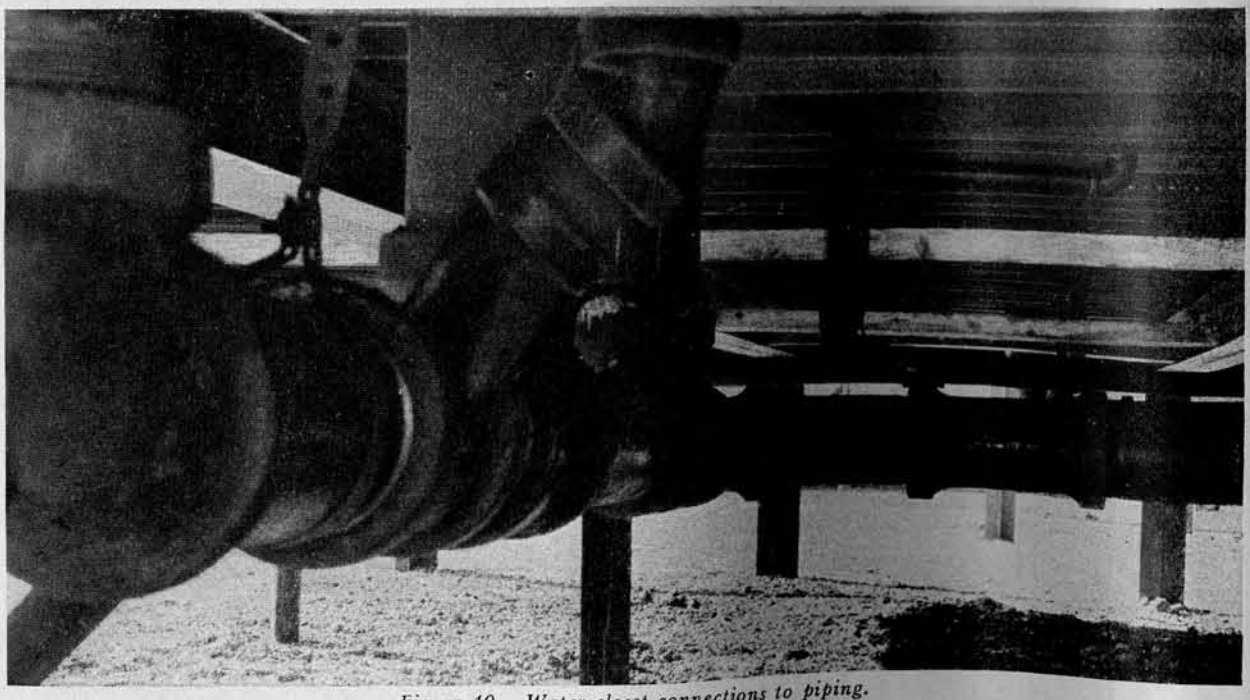


Figure 40. Water closet connections to piping.

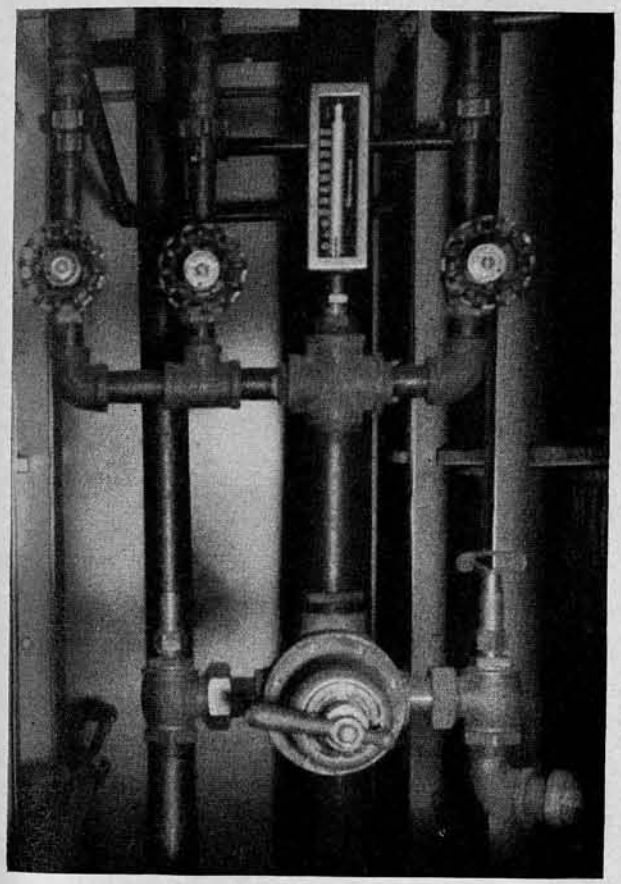


Figure 41. Shower controls and piping.

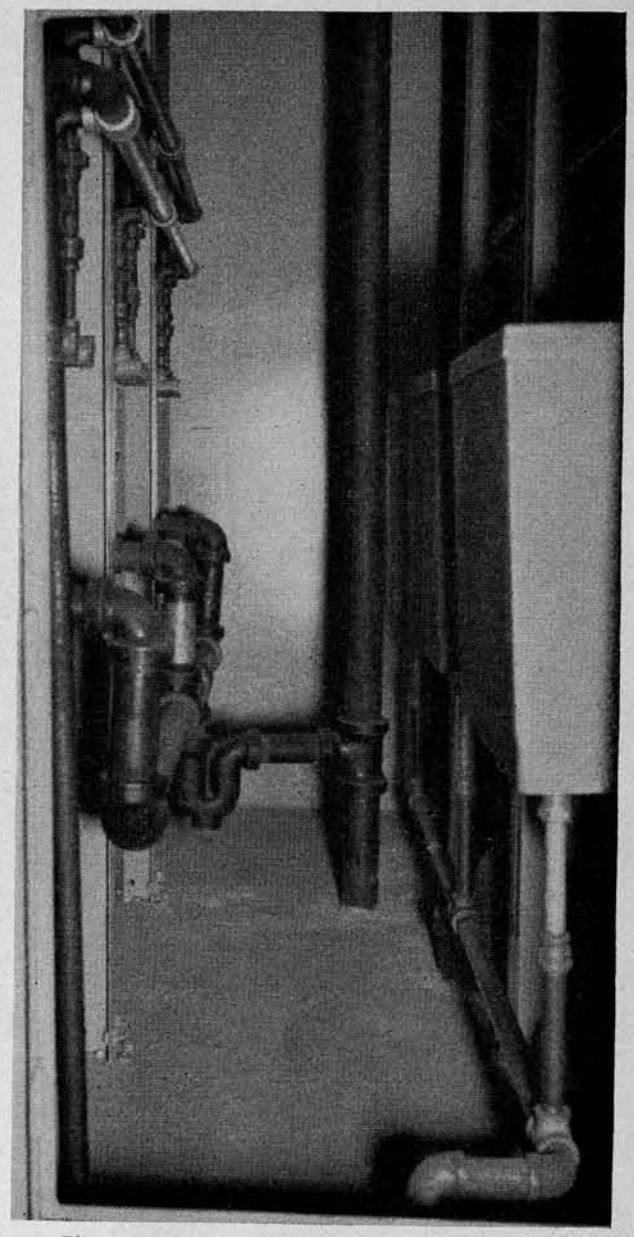


Figure 42. Piping to lavatories and water closets.

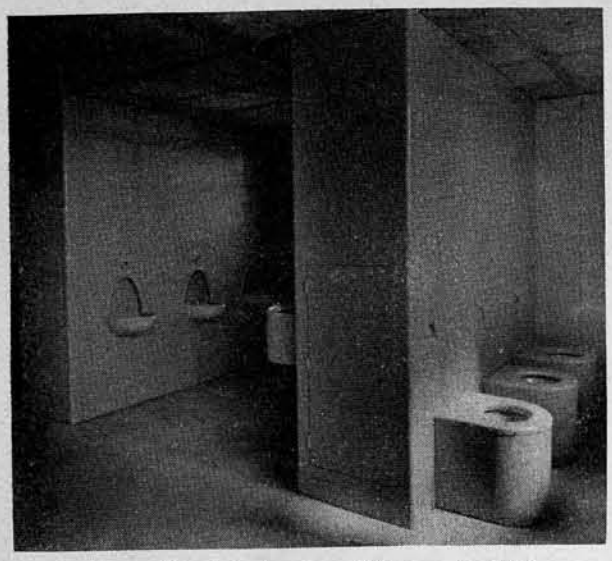


Figure 43. Interior view of fixtures installed.

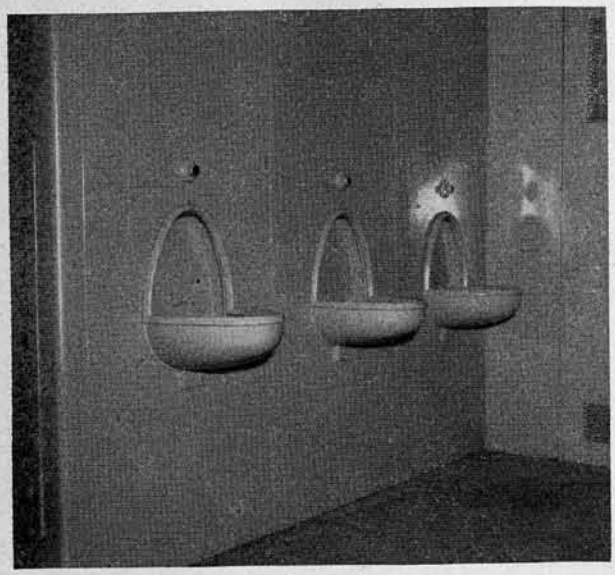


Figure 44. Urinals.

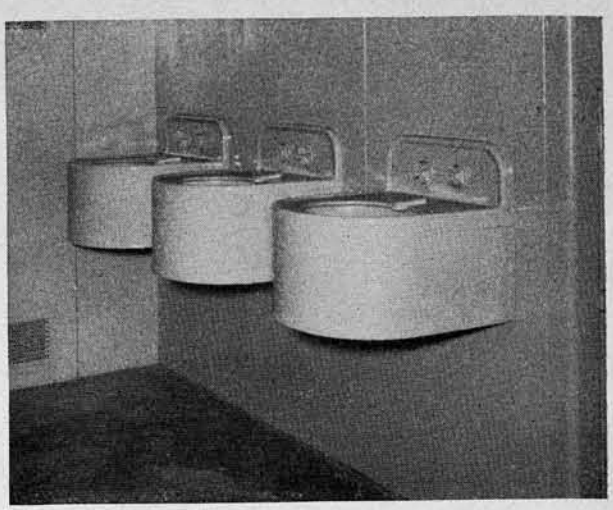


Figure 45. Lavatories.

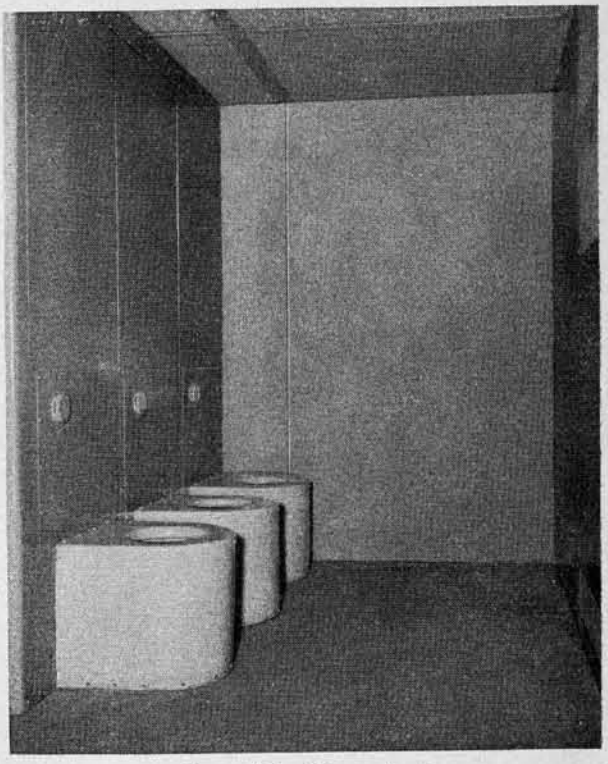


Figure 46. Water closets.

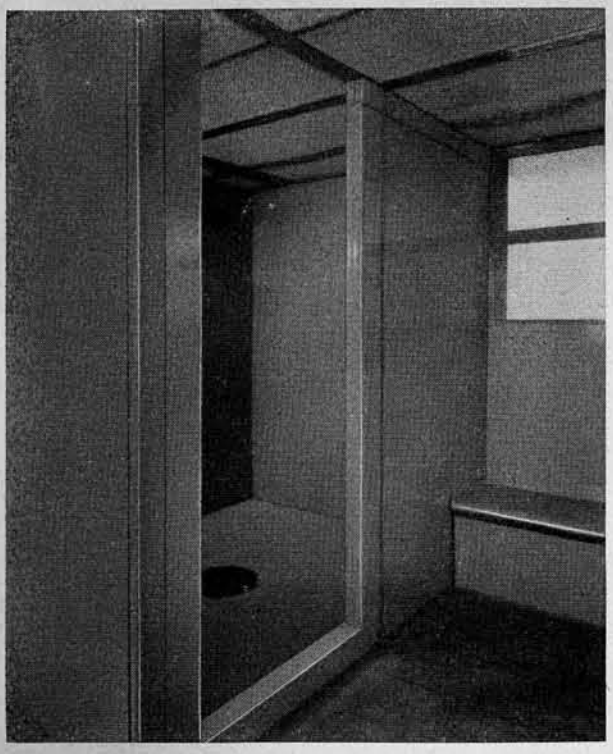


Figure 47. Shower.

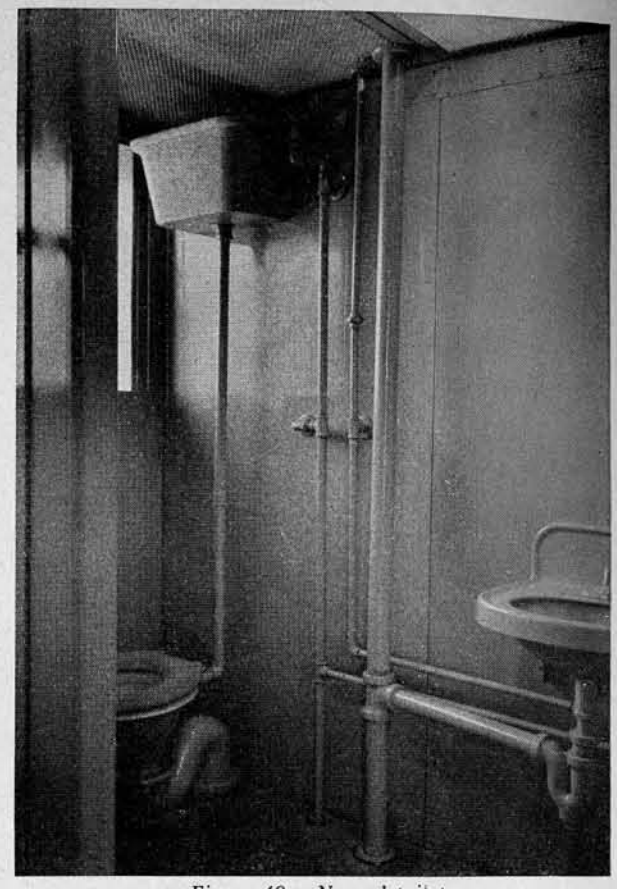


Figure 49. Nurses' toilet.

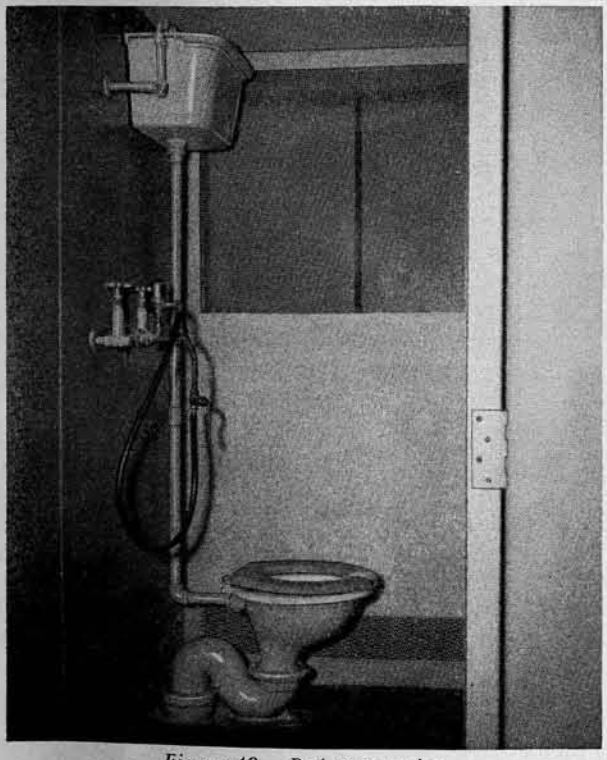


Figure 48. Bed pan washer.

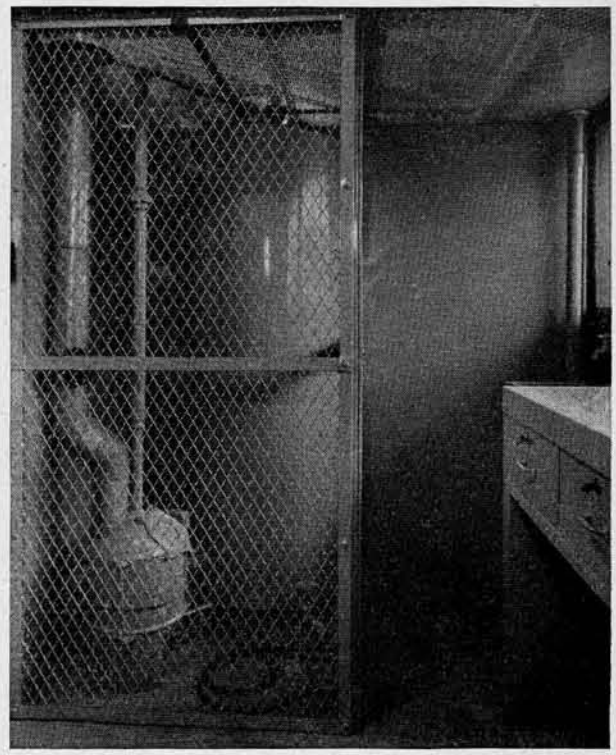


Figure 50. Water heater.



Figure 51. Interior view of completed utility building.

Section VII

ERECTION PROCEDURE FOR CORRIDORS

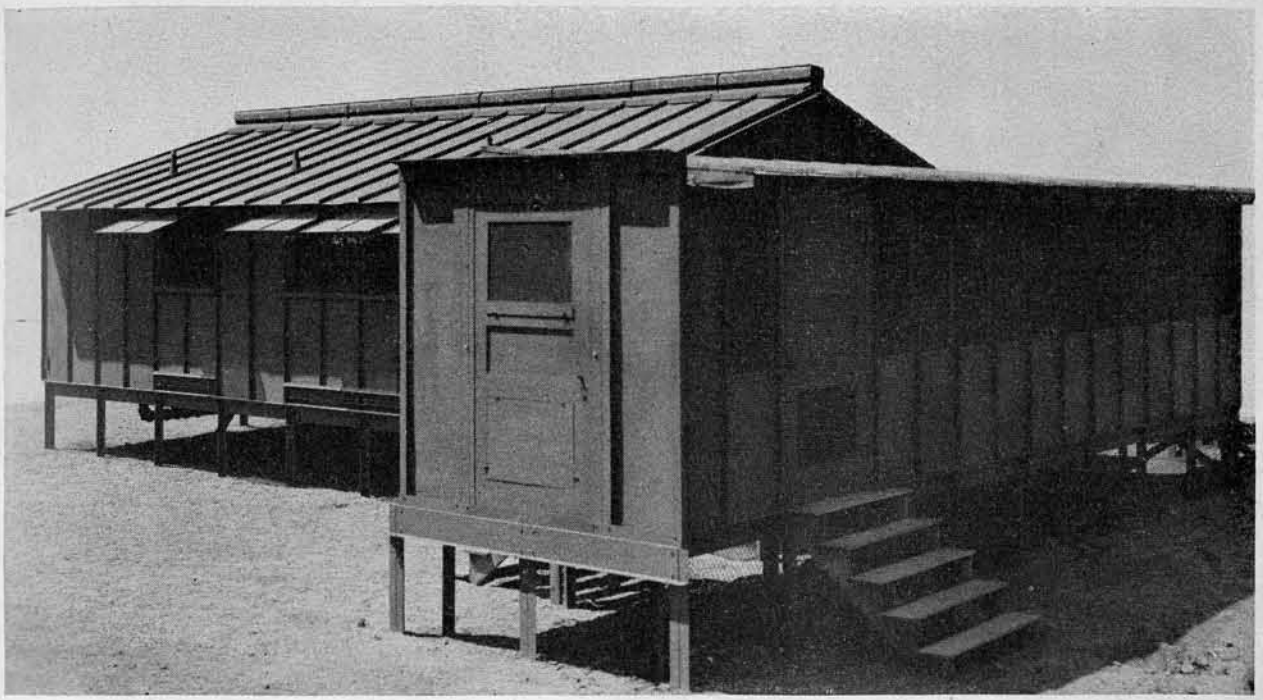


Figure 52. View of completed corridor from exercise yard.

41. General.

a. The component members of the corridors are prefixed with the letter "C." For piece markings see parts list and plates Nos. 4 to 8 inclusive. The erection procedure is similar to the kitchen and office building with some variation, as in the wards and utility buildings.

b. It is recommended that the corridors be constructed as the second phase of the unit.

42. Foundation Posts, Joists and Purlins.

The foundation posts, floor joists, and purlins are assembled and should be erected as described in section III. Where the exercise court occurs, plate No. 1, wire mesh panels are provided and will require a trench for application. These panels must be applied when the joists and girders are in place and before the holes are back-filled.

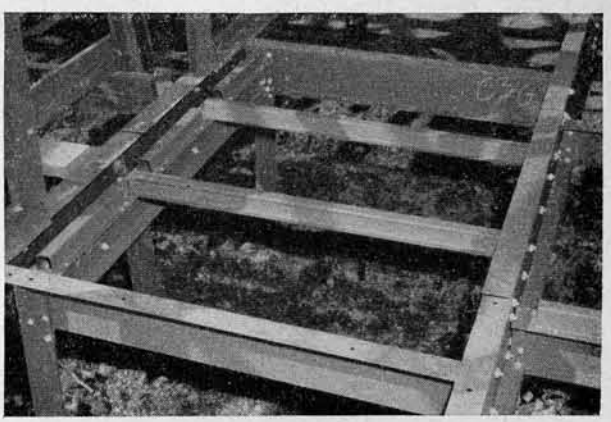


Figure 53. Floor connection at corridor and utility building.

43. Assembly of Side Wall Units.

The side walls of the corridors and connections to buildings cannot be completely erection assem-

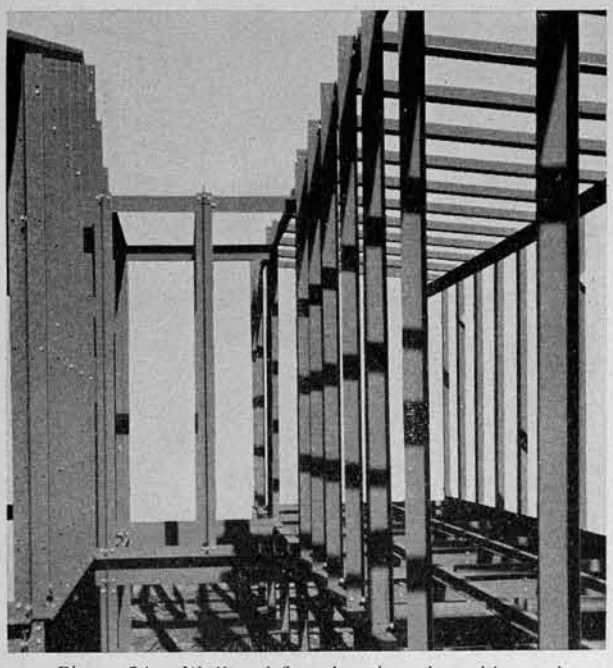


Figure 54. Wall and floor framing of corridor and connection.

bled, only the framing, sill angle, wall angles and eave angle should be assembled to be placed on the foundation.

44. Erection of Framing Panels.

As the framed panels are set on the foundation, the eave flashing, wire raceway and roof rafters should be placed approximately every 2 feet. It will be noted that the shorter side of the corridor is always towards the exercise yard.

45. Interior Finish.

a. Place the plywood ceiling panels on and between the roof angles, fastening by screwing the roof angle to the plywood.

b. The interior metal finish is applied with SM screws to the wall angles except at the bottom corners where the bolts which hold the wall angle to the sill also hold the interior finish.

c. The plywood floor can also be placed at this point or later. The floor is held down with drive screws approximately every twelve inches.

46. Electric Wiring and Fixtures.

The raceway and covers for electric lights in the corridors should be installed while the interior partitions are being placed. Details are shown on plates Nos. 7, 8 and 35.

47. Roofing.

When the ceiling panels are installed the roofing panels may be applied. It is advisable to apply the roofing on the connections to the building when the exterior finish is being applied on the building to which the connection is being made.

48. Exterior Finish.

a. The exterior finish is applied as for the building described in section III.

b. Where doors occur the jambs, head and sill are applied with the exterior finish.

c. The sills are fastened with SM screws to the interior and exterior panels, and the screws are fastened to the sill and exterior panels. (See plate No. 8.)

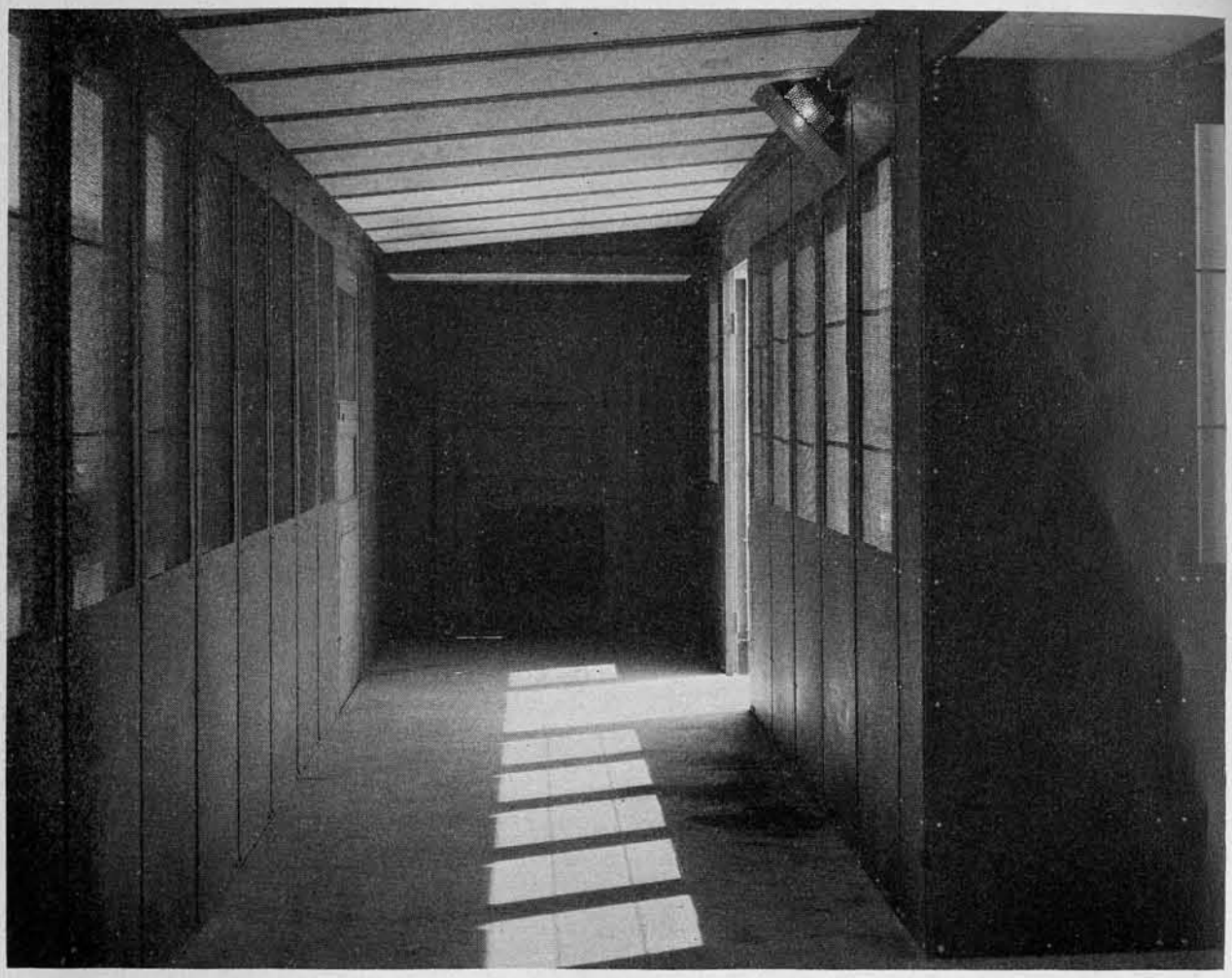


Figure 55. Interior view of completed corridor.

Section VIII

HOSPITAL EQUIPMENT AND FURNITURE

49. Hospital Equipment.

The hospital equipment is furnished by the medical department including the stove HE–11c and refrigerator HE–9a.

50. Furniture—Kitchen.

The cabinets and sink indicated on the plans of the kitchen and office building are constructed from material furnished under bill of materials and as detailed on plate No. 2.

51. Furniture—Utility Building.

The counters and benches in the utility building are factory made and must be assembled according to the details shown on plates Nos. 31, 32, and 33, and as described in section VI.

Section IX

ELECTRIC AND PLUMBING

52. Electric Wiring.

a. The electric wiring and fixtures should be installed as indicated on drawings. The material for the kitchen and office are furnished under a bill of materials and should be installed according to standard practice.

b. The raceway and covers in the corridor are furnished with the building. (See plates Nos. 7, 8 and 35.)

53. Special Switches.

It will be noted that in the ward buildings special switches are required and must be so installed as to be inaccessible to patients.

54. Plumbing and Fixtures.

a. The plumbing, piping and fixtures for utility building are included with the material for the building and should be installed as shown on the drawings.

b. The plumbing pipes and fixtures for the kitchen are included under the bill of materials and should be installed as shown on the drawings and in accordance with standard practice.

LIST OF PARTS AND MATERIAL*

55. Kitchen—Office Building.

The following material is required for one basic kitchen-office building.

Part No.	Name and Description	No. Pcs.	Pkg. No.
B–1	Wall Board Batten	4	10
B–2	Wall Board Batten	22	9
B–3	Wall Board Batten	2	10
B–4	Wall Board Batten	12	10
B–5	Wall Board Batten	18	10
B–6	Wall Board Batten	4	10
B–7	Wall Board Batten	4	10
B–8	Wall Board Batten	10	10
BA–1	Base Angle	21	6
BC–1	Bottom Chord Angle	8	2
BC–2	Bottom Chord Angle	2	2
BC–3	Bottom Chord Angle	4	2
CA–1	Shelf Angle	10	13
DH–1	Door Head	1	3
DH–1A	Door Head	1	3
DJ–1R	Door Jamb	1	1
DJ–1L	Door Jamb	2	1
DJ–6	Door Jamb	1	1
EA–1	Eave Angle	6	8
EB–1	Exterior Batten	6	10
EF1	Eave Flashing	6	1
G–1	Gusset Plate	2	1
G–2	Gusset Plate	2	1
G–3	Gusset Plate	4	1
GF–1	Gable Flashing	4	1
GF–2R	Gable Flashing	2	1
GF–2L	Gable Flashing	2	1
GP–1R	Gable Panel	2	9
GP–1L	Gable Panel	2	9
GP–2R	Gable Panel	2	9
GP–2L	Gable Panel	2	9
GP–3R	Gable Panel	2	9
GP–3L	Gable Panel	2	9
GP–4R	Gable Panel	2	9
GP–4L	Gable Panel	2	9
GP–5R	Gable Panel	1	9
GP–5L	Gable Panel	2	9
GP–5A	Gable Panel	1	9
HS–1	Door Head Stop	2	3
JA–1	Joist Angle	10	2
JA–2R	Joist Angle	7	2
JA–2L	Joist Angle	7	2
LA–1	Louver Angle	12	11, 12
LP–1	Louver Plate	24	11, 12
LV–1	Louver Vane	36	11, 12
P–1	Purlin	50	7
P–2	Purlin	9	7
P–3	Purlin	18	7
PA–1	Wall Post Angle	36	13
PA–2	Wall Post Angle	10	13
R–1	Ridge Angle	6	8
RA–1	Rafter Angle	40	5
RA–2R	End Rafter Angle	2	3
RA–2L	End Rafter Angle	2	4
RE–1	Ridge End Closer	2	1
RP–1	Roof Panels	24	11, 12
SA–1	Sill Angle	2	3
SA–2	Sill Angle	2	1
SA–4R	Sill Angle	4	3
SA–4L	Sill Angle	4	3
SC–1	Screen Clip	24	1
SS–1	Sash Support	16	1
T–1	Wall Board Trim	4	11, 12
T–2	Wall Board Trim	12	9
T–4	Wall Board Trim	4	9
T–5	Wall Board Trim	4	9
T–6	Wall Board Trim	8	9
T–7	Wall Board Trim	6	9
T–8	Wall Board Trim	6	9
T–9	Wall Board Trim	8	9
T–10	Wall Board Trim	14	9
T–11	Wall Board Trim	12	9
T–12	Wall Board Trim	2	9
T–14	Wall Board Trim	4	9
T–15R	Wall Board Trim	2	9
T–15L	Wall Board Trim	2	9
TA–1R	Truss Angle	4	3
TA–1L	Truss Angle	4	4
TT–1	Truss Tie	3	2
TT–2	Truss Angle	4	2
WA–1	Wall Angle	4	3
WA–2	Wall Angle	8	3
WA–3	Wall Angle	8	3
WA–4	Wall Angle	8	3
WA–5	Wall Angle	8	3
WA–6R	Wall Angle	4	4
WA–6L	Wall Angle	4	4
WA–7	Wall Angle	32	4
WA–8	Wall Angle	24	4
WF–1	Window Flashing	4	1
WH–1	Window Head	12	1
WJ–1R	Window Jamb	12	1
WJ–1L	Window Jamb	12	1
WP–1	Wall Panel	24	10
WP–2	Wall Panel	8	10
WS–1	Window Sill	12	1
S–1	Window Stay Bar	4	1
ZJ–1R	Zee Joist	5	6
ZJ–1L	Zee Joist	5	6
ZJ–2R	Zee Joist	2	6
ZJ–2L	Zee Joist	2	6
ZJ–3	Zee Joist	2	6
ZJ–4R	Zee Joist	2	6
ZJ–4L	Zee Joist	2	6

*List of parts and material to be separately stacked before assembling or erecting.

56. Ward Building.

The following material required for one right and left ward building.

NOTE.—½ of total number of pieces are required for each building.

Part No.	Name and Description	No. Pcs.	Pkg. No.
WADS–1	Access Door Stop	2	113
WB–3	Wall Board Batten	4	113
WB–6	Wall Board Batten	8	113
WB–7	Wall Board Batten	8	113
WBA–1	Base Angle	198	115
WBC–1	Bottom Chord Angle	60	40, 42
WBC–2	Bottom Chord Angle	60	41, 42
WBC–5	Bottom Chord Angle	4	42
WBC–3	Bottom Chord Angle	4	42
WBC–4	Bottom Chord Angle	4	42
WCA–1	Shelf Angle	124	18
WCA–2	Clip Angle	60	114
WCA–3	Clip Angle	60	114
WDH–2	Door Head	8	111, 112
WDJ–2	Door Jamb	8	111
WDJ–3	Door Jamb	8	112
WEA–1	Eave Angle	60	76–78
WEA–2	Eave Angle	2	78
WEA–3	Eave Angle	2	78
WEB–1	Exterior Batten	100	113
WEF–1	Eave Flashing	60	111, 112
WEF–2	Eave Flashing	2	112
WEF–3	Eave Flashing	2	112
WG–1	Gusset Plate	30	114
WG–2	Splice Plate	60	114
WGF–3	Gable Flashing	8	113
WGF–1	Gable Flashing	4	113
WGF–2	Gable Flashing	4	113
WGP–1	Gable Panel	4	82
WGP–2	Gable Panel	4	83
WGP–3	Gable Panel	4	82
WGP–4	Gable Panel	4	83
WGP–5	Gable Panel	4	82
WGP–6	Gable Panel	4	83
WGP–7	Gable Panel	4	82
WGP–8	Gable Panel	4	83
WGP–9	Gable Panel	4	82
WGP–10	Gable Panel	4	83
WJA–3	Joist Angle	124	21–23
WJA–1	Joist Angle	66	24, 26
WJA–2	Joist Angle	66	25, 26
WLA–1	Louver Angle	116	107, 108
WLP–1	Louver Plate	232	114
WLV–1	Louver Vane	348	109, 110
WP–1X	Purlin	620	73, 75
WP–2X	Purlin	252	66–72
WP–3	Purlin	36	73–75
WPA–1	Wall Post Angle	280	14–18
WPA–2	Wall Post Angle	124	19, 20
WR–1	Ridge Angle	64	79–81
WRA–1	Rafter Angle	392	43–51
WRA–3	End Rafter Angle	4	56
WRA–4	End Rafter Angle	4	57
WRE–1	Ridge End Closer	4	114
WRP–1	Roof Panel	252	91–106
WRP–2	Roof Panel	2	106
WRP–3	Roof Panel	2	106
WS–IX	Window Stay	12	114
WSA–1	Sill Angle	48	28, 29
WSA–3	Sill Angle	4	29
WSA–4	Sill Angle	4	29
WSA–2	Sill Angle	8	29
WSA–5	Sill Angle	4	27
WSA–6	Sill Angle	4	27
WSB–1	Screen Batten	124	113
WT–1	Wall Board Trim	8	91
WT–2	Wall Board Trim	64	113
WT–14	Wall Board Trim	4	92
WT–15	Wall Board Trim	4	93
WTA–1	Truss Angle	60	52–54
WTA–2	Truss Angle	60	55–57
WTT–2	Truss Angle	60	52–57
WWA–1	Wall Angle	8	29
WWA–2	Wall Angle	16	29
WWA–3	Wall Angle	16	27
WWA–4	Wall Angle	16	29
WWA–5	Wall Angle	16	27
WWA–6	Wall Angle	120	30–33
WWA–7	Wall Angle	184	36–39
WWA–8	Wall Angle	232	34–35
WWF–1	Window Flashing	12	116, 117
WWH–1	Window Head	116	118–121
WWJ–1	Window Jamb	116	116
WWJ–2	Window Jamb	116	117
WWP–1	Wall Panel	232	84–90
WWP–2	Wall Panel	28	84–89
WWP–3	Wall Panel	2	90
WWP–4	Wall Panel	2	90
WWS–1	Window Sill	116	120, 121
WZJ–3	Zee Joist	62	58, 59
WZJ–4	Zee Joist	62	60, 61
WZJ–1	Zee Joist	4	65
WZJ–2	Zee Joist	4	65
WZJ–7	Zee Joist	56	62–65
WZJ–5	Zee Joist	4	64
WZJ–6	Zee Joist	4	64
WSS–1	Sash Support	208	113

57. Interior of Ward Building.

The following material is required for interior construction for one right and left ward building.

Part No.	Name and Description	No. Pcs.	Pkg. No.
WBP–1	Base Plate	58	209, 211
WBP–1A	Base Plate	17	209, 211
WBP–1B	Base Plate	17	209, 211
WBP–2A	Base Plate	22	210, 212
WBP–2B	Base Plate	22	210, 212
WBP–2C	Base Plate	13	210, 212
WBP–2D	Base Plate	13	210, 212
WBP–2E	Base Plate	4	210
WBP–2F	Base Plate	13	210, 212
WBP–2G	Base Plate	13	210, 212
WBP–2H	Base Plate	4	212
WBP–3	Base Plate	120	210, 212
WBP–4A	Base Plate	4	210, 212
WBP–4B	Base Plate	4	210, 212
WBP–4C	Base Plate	4	210, 212
WBP–4D	Base Plate	4	210, 212
WBP–4E	Base Plate	4	210, 212
WBP–4F	Base Plate	4	210, 212
WBP–4G	Base Plate	4	210, 212
WBP–4H	Base Plate	4	210, 212
WBP–5A	Base Plate	8	210, 212
WBP–5B	Base Plate	8	210, 212
WCA–4	Clip Angle	592	254
WCA–5	Clip Angle	52	.....
WCA–6	Clip Angle	16	.....
WCP–1	Cornice Plate	78	209, 211
WCP–1A	Cornice Plate	32	209, 211
WCP–1B	Cornice Plate	32	209, 211
WCP–2	Cornice Plate	2	209, 211
WCP–3	Cornice Plate	120	210, 212
WCP–4	Cornice Plate	4	210, 212

Part No.	Name and Description	No. Pcs.	Pkg. No.
WCP–4A	Cornice Plate	4	210, 212
WCP–4B	Cornice Plate	4	210, 212
WCP–4C	Cornice Plate	4	210, 212
WCP–5A	Cornice Plate	8	210, 212
WCP–5B	Cornice Plate	8	210, 212
WFP–1	Face Panel Assem	72	161–168, 179–183
WFP–1A	Face Panel Assem	20	169–178
WFP–2	Door Partition Panel Assem	22	171–182
WFP–2A	Door Partition Panel Assem	4	169, 170
WFP–3	Face Panel Assem	128	184–200
WFP–4	Door Partition Panel Assem	8	205–208
WFP–5	Face Panel Assem	4	199, 200
WFP–5A	Face Panel Assem	4	199, 200
WFP–6	Face Panel	16	201–204
WIP–1	Interior Wall Panel	112	213–239, 252, 253
WIP–2	Interior Wall Panel	8	240–243
WIP–3R	Interior Wall Panel	4	244, 245
WIP–3L	Interior Wall Panel	4	246, 247
WIP–4	Interior Wall Panel	16	248–251
WIP–5	Interior Wall Panel	4	252, 253
WPS–1	Partition Spacer	262	201–204
WPS–2	Partition Spacer	34	201
WSP–1	Sill Plate	22	.....
WSP–3	Sill Plate	12	.....
WSP–4	Sill Plate	12	.....
WOP–1	Observation Port	4	254

58. Utility Building.

The following material is required for one utility building.

Part No.	Name and Description	No. Pcs.	Pkg. No.
UADS–1	Access Door Stop	1	137
UB–3	Wall Board Batten	2	133
UB–6	Wall Board Batten	4	133
UB–7	Wall Board Batten	6	133
UBA–1	Base Angle	27	130
UBC–1	Bottom Chord Angle	6	124
UBC–2	Bottom Chord Angle	6	124
UBC–3	Bottom Chord Angle	2	124
UBC–4	Bottom Chord Angle	2	124
UBC–5	Bottom Chord Angle	2	124
UCA–1	Shelf Angle	14	123
UCA–2	Clip Angle	6	137
UCA–3	Clip Angle	6	137
UDH–3	Door Head	1	125
UDJ–4	Door Jamb	1	137
UDJ–5	Door Jamb	1	137
UEA–1	Eave Angle	8	131
UEB–1	Exterior Batten	8	134
UEF–1	Eave Flashing	8	137
UG–1	Gusset Plate	3	137
UG–2	Splice Plate	6	137
UGF–1	Gable Flashing	2	137
UGF–2	Gable Flashing	2	137
UGF–3	Gable Flashing	4	137
UGP–1	Gable Panel	2	133
UGP–2	Gable Panel	2	133
UGP–3	Gable Panel	2	133
UGP–4	Gable Panel	2	133
UGP–5	Gable Panel	1	133
UGP–6	Gable Panel	1	133
UGP–7	Gable Panel	1	133
UGP–8	Gable Panel	1	133
UGP–9	Gable Panel	1	133
UGP–10	Gable Panel	1	133
UGP–11	Gable Panel	1	133
UGP–12	Gable Panel	1	133
UGP–13	Gable Panel	1	133
UGP–14	Gable Panel	1	133
UGP–15	Gable Panel	1	133
UGP–16	Gable Panel	1	133
UGP–17	Gable Panel	1	133
UGP–18	Gable Panel	9	124
UJA–1	Joist Angle	9	124
UJA–2	Joist Angle	14	124
UJA–3	Joist Angle	10	135, 136
ULA–1	Louver Angle	20	135, 136
ULP–1	Louver Plate	30	135, 136
UVL–1	Louver Vane	44	122
UPA–1	Wall Post Angle	14	123
UPA–2	Wall Post Angle	8	131
UR–1	Ridge Angle	52	128, 129
URA–1	Rafter Angle	2	129
URA–3	End Rafter Angle	2	129
URA–4	End Rafter Angle	2	137
URE–1	Ridge End Closer	25	135, 136
URP–1	Roof Panel	6	136
URP–4	Roof Panel	1	136
URP–5	Roof Panel	3	137
US–1	Window Stay	1	125
USA–1	Sill Angle	1	125
USA–4	Sill Angle	1	125
USA–5	Sill Angle	1	125
USA–6	Sill Angle	2	125
USA–7	Sill Angle	2	125
USA–8	Sill Angle	1	125
USA–9	Sill Angle	1	125
USA–10	Sill Angle	2	125
USA–11	Sill Angle	14	137
USB–1	Screen Batten	18	137
USS–1	Sash Support	4	133
UT–1	Wall Board Trim	8	133
UT–2	Wall Board Trim	2	133
UT–14	Wall Board Trim	2	133
UT–15	Wall Board Trim	6	129
UTA–1	Truss Angle	6	129
UTA–2	Truss Angle	6	129
UTT–2	Truss Tie	4	125
UWA–1	Wall Angle	8	125
UWA–2	Wall Angle	8	125
UWA–3	Wall Angle	4	125
UWA–4	Wall Angle	8	125
UWA–5	Wall Angle	12	127
UWA–6	Wall Angle	42	126
UWA–7	Wall Angle	20	127
UWA–8	Wall Angle	4	127
UWA–9	Wall Angle	4	127
UWA–10	Wall Angle	3	137
UWF–1	Window Flashing	12	137
UWH–1	Window Head	12	137
UWJ–1	Window Jamb	12	137
UWJ–2	Window Jamb	20	134
UWP–1	Wall Panel	14	134
UWP–2	Wall Panel	4	134
UWP–3	Wall Panel	12	137
UWS–1	Window Sill	2	130
UZJ–1	Zee Joist	2	130
UZJ–2	Zee Joist	7	130
UZJ–3	Zee Joist	7	130
UZJ–4	Zee Joist	2	130
UZJ–5	Zee Joist	2	130
UZJ–6	Zee Joist	4	130
UZJ–7	Zee Joist		

59. Interior of Utility Building.

The following material is required for interior construction of one utility building.

Part No.	Name and Description	No. Pcs.	Pkg. No.
UBP-1	Base Plates	2	255
UBP-1A	Base Plates	3	255
UBP-1B	Base Plates	2	255
UBP-3	Base Plates	14	255
UBP-4A	Base Plates	1	255
UBP-4B	Base Plates	1	255
UBP-4C	Base Plates	1	255
UBP-4D	Base Plates	1	255
UBP-5B	Base Plates	1	255
UBP-7	Base Plates	2	255
UBP-8	Base Plates	2	255
UBP-8A	Base Plates	1	255
UBP-8B	Base Plates	2	255
UBP-8C	Base Plates	1	255
UBP-8D	Base Plates	1	255
UBP-8ER	Base Plates	2	255
UBP-8EL	Base Plates	1	255
UBP-9B	Base Plates	1	255
UBP-9C	Base Plates	1	255
UBP-10	Base Plates	2	255
UBP-10A	Base Plates	2	255
UBP-10B	Base Plates	1	255
UBP-11	Base Plates	1	255
UBP-12	Base Plates	1	255
UCP-1	Cornice Plates	4	255
UCP-1A	Cornice Plates	3	255
UCP-1B	Cornice Plates	4	255
UCP-2	Cornice Plates	1	255
UCP 3	Cornice Plates	15	255
UCP-4B	Cornice Plates	1	255
UCP-4A	Cornice Plates	1	255
UCP-5A	Cornice Plates	1	255
UCP-9	Cornice Plates	3	255
UCP-9A	Cornice Plates	1	255
UCP-10	Cornice Plates	4	255
UCP-10A	Cornice Plates	4	255
UCP-11	Cornice Plates	2	255
UCP-12	Cornice Plates	1	255
UFP-1	Face Panels	6	256
UFP-1B	Face Panels	1	259
UFP-1C	Face Panels	1	259
UFP-3	Face Panels	9	257, 258
UFP-3A	Face Panels	2	258
UFP-3B	Face Panels	1	258
UFP-3C	Face Panels	1	258
UFP-3D	Face Panels	1	258
UFP-3E	Face Panels	1	258
UFP-3F	Face Panels	1	258
UFP-4	Face Panels	1	261
UFP-6	Face Panels	1	262
UFP-7	Face Panels	1	259
UFP-7A	Face Panels	1	259
UFP-8	Face Panels	2	260
UFP-9	Face Panels	1	260
UFP-10	Face Panels	2	261
UFP-10A	Face Panels	2	261
UFP-11	Face Panels	1	261
UFP-12	Face Panels	1	261
UCA-6	Clip Angles	2	.....
UCA-4	Clip Angles	82	262
UCA-7	Clip Angles	1	.....
UCA-8	Clip Angles	2	262
UPS-1	Partition Spacer	33	262
UPS-2	Partition Spacer	7	262
UIP-1	Interior Wall Panels	5	263, 264
UIP-1A	Interior Wall Panels	2	264
UIP-1B	Interior Wall Panels	1	264
UIP-1C	Interior Wall Panels	1	265
UIP-1D	Interior Wall Panels	1	265
UIP-1E	Interior Wall Panels	1	265
UIP-2A	Interior Wall Panels	1	266
UIP-2B	Interior Wall Panels	1	268
UIP-2	Interior Wall Panels	2	266
UIP-3R	Interior Wall Panels	1	267
UIP-3L	Interior Wall Panels	2	267
UIP-3A	Interior Wall Panels	1	267
UIP-5	Interior Wall Panels	2	268
UIP-5A	Interior Wall Panels	1	268
UIP-5B	Interior Wall Panels	1	265
UPC1-1	Stud Angles	10	269
UPC1-2	Clip Angles	8	269
UPC1-3	Clip Angles	4	269
UPC1-4	Partition Panel	1	269
UPC1-5	Cornice Plate	2	269
UPC1-6	Partition Panels	3	269
UPC1-7	Partition Panels	3	269
UPC1-8	Base or Cornice Plate	9	269
UPC1-9	Base Plate	3	269
UPC1-10	Base Plate	3	269
UPC1-12	Cover Plates	3	269
UPC2-1	Stud Angles	10	270
UPC2-2	Clip Angle	8	270
UPC2-3	Clip Angle	4	270
UPC2-4	Partition Panel	1	270
UPC2-5	Base or Cornice Plates	2	270
UPC2-6	Partition Panel	3	270
UPC2-7	Partition Panel	3	270
UPC2-8	Base or Cornice Plate	9	270
UPC2-9	Base Plates	3	270
UPC2-10	Base Plates	3	270
UPC2-13	Cover Plates	3	270
UPC3-1	Stud Angles	10	271
UPC3-2	Clip Angles	8	271
UPC3-3	Clip Angles	4	271
UPC3-4	Partition Panel	1	271
UPC3-5	Cornice Plate	1	271
UPC3-5A	Base Plate	1	271
UPC3-6	Partition Panels	3	271
UPC3-7	Partition Panels	3	271
UPC3-8	Base or Cornice Plates	9	271
UCAB-1	Cabinet Front	2	272
UCAB-2R	Cabinet Side	1	272
UCAB-2L	Cabinet Side	1	272
UCAB-3R	Cabinet Side	1	272
UCAB-3L	Cabinet Side	1	272
UCAB-4R	Cabinet Bottom	1	272
UCAB-4L	Cabinet Bottom	1	272
UCAB-5	Cabinet Shelves	5	272
UCAB-6	Shelf Support	10	272
USS-2R	Sink Brackets	1	272
USS-2L	Sink Brackets	1	272
USS-3	Sink Brackets	1	272
USS-4	Sink Brackets	1	272
UCOU-1	Counter Leg	1	273
UCOU-2	Counter Leg	1	273
UCOU-3	Counter Bottom	1	273
UCOU-4	Counter Top	1	273
UCOU-5	Counter Drawer Suspension	2	273
UCOU-6	Counter Drawers	3	273
UBEN-1	Bench Top	1	274
UBEN-2	Bench Top	1	274
UBEN-3	Bench Front	1	274
UBEN-4	Bench Front	1	274
U-FLP-1	Floor Panel	1	275
U-FLP-2	Floor Panel	1	275
U-FLP-3	Floor Panel	1	275
U-FLP-4	Floor Panel	1	275
U-FLP-5	Floor Panel	1	275
U-FLP-6	Floor Panel	1	275
U-FLP-7	Floor Panel	1	275
U-FLP-8	Floor Panel	1	275
U-FLP-9	Floor Panel	1	275

Part No.	Name and Description	No. Pcs.	Pkg. No.
U–FLP–10	Floor Panel	1	275
U–FLP–11	Floor Panel	1	275
U–FLP–12	Floor Panel	1	275
U–FLP–13	Floor Panel	1	275
U–FLP–14	Floor Panel	1	275
U–FLP–15	Floor Panel	1	276
U–FLP–16	Floor Panel	1	276
U–FLP–17	Floor Panel	1	276
U–FLP–18	Floor Panel	1	276
U–FLP–19	Floor Panel	1	276
U–FLP–20	Floor Panel	1	276
U–FLP–21	Floor Panel	1	276
U–FLP–22	Floor Panel	1	276
U–FLP–23	Floor Panel	1	276
U–FLP–24	Floor Panel	1	276
U–FLP–25	Floor Panel	1	276
U–FLP–26	Floor Panel	1	276
U–FLP–27	Floor Panel	1	276
U–FLP–28	Floor Panel	1	277
U–FLP–29	Floor Panel	1	277
U–FLP–30	Floor Panel	1	277
U–FLP–31	Floor Panel	1	277
U–FLP–32	Floor Panel	1	277
U–FLP–33	Floor Panel	1	277
U–FLP–34	Floor Panel	1	277
U–FLP–35	Floor Panel	1	277
U–FLP–36	Floor Panel	1	277
U–FLP–37	Floor Panel	1	277
U–FLP–38	Floor Panel	1	277
U–FLP–39	Floor Panel	1	277
U–FLP–40	Floor Panel	1	277
U–FLS–1	Floor Sleeves	8	278
U–FLS–2	Floor Sleeves	6	278
U–FLS–3	Floor Sleeves	8	278
U–FLS–4	Floor Sleeves	1	278
U–FLS–5	Floor Sleeves	1	278
U–FLG–1	Floor Grounds	22	278
U–FLG–2	Floor Grounds	22	278
U–FLG–3	Floor Grounds	35	278
U–FLG–4	Floor Grounds	9	278
U–FLG–5	Floor Grounds	9	278
U–FLB–1A	Floor Blocks	2	278
U–FLB–1	Floor Blocks	6	278
U–FLB–3	Floor Blocks	7	278
U–FLB–4	Floor Blocks	18	278
U–FLB–5	Floor Blocks	1	278
U–FLB–6	Floor Blocks	19	278
U–FLB–7	Floor Blocks	6	278
U–FLB–8	Floor Blocks	3	278
U–FLB–9	Floor Blocks	2	278
U–FLB–10	Floor Blocks	2	278
U–FLB–11	Floor Blocks	1	278
U–FLB–12	Floor Blocks	1	278
U–FLB–13	Floor Blocks	1	278
U–FLB–14	Floor Blocks	2	278
U–FLB–15	Floor Blocks	1	278
U–SBP–1	Shower Base Plate	1	278
U–SBP–2	Shower Base Plate	1	278
U–SBP–3	Shower Base Plate	1	278
U–SBP–5	Shower Base Plate	1	278
U–SBP–6	Shower Base Plate	1	278
U–SP–5	Shower Curb	1	278
U–FLB–SP1	Floor Panel Splice Plate	7	278
U–FLB–SP2	Floor Panel Splice Plate	2	278
U–WHE–1	Water Heater Enclosure Angle.	1	274
U–WHE–2	Water Heater Enclosure Angle.	1	274
U–WHE–3	Water Heater Enclosure Angle.	1	274
U–WHE–4A	Water Heater Enclosure Clip.	1	278
U–WHE–4B	Water Heater Enclosure Clip.	1	278

60. Corridors.

The following material is required for two corridors.

NOTE.—½ of total number of pieces are required for each corridor.

Part No.	Name and Description	No. Pcs.	Pkg. No.
CBA–1	Base Angle	52	151
CCA–1	Clip Angle	48	142
CCA–1	Clip Angle	4	142
CCA–3	Ceiling Angle	4	142
CDJ–1	Door Jamb	4	150
CDJ–2	Door Jamb	4	150
CDJ–3	Door Jamb	4	150
CDJ–4	Door Jamb	4	150
CDH–1	Door Head	4	150
CDH–2	Door Head	4	150
CEA–1	Eave Angle	4	145
CEA–2	Eave Angle	4	145
CEA–3	Eave Angle	6	143
CEA–3A	Eave Angle	4	143
CEA–4	Eave Angle	4	144
CEA–4A	Eave Angle	4	144
CEA–5	Eave Angle	2	145
CEA–6	Eave Angle	2	145
CEA–7	Eave Angle	2	145
CEF–1	Eave Flashing	4	157
CEF–2	Eave Flashing	4	157
CEF–3	Eave Flashing	10	157
CEF–4	Eave Flashing	10	160
CEF–5	Eave Flashing	2	160
CEF–6	Eave Flashing	2	160
CEP–1	Enclosure Panel	4	151
CFP–1	Filler Purlin	78	151
CIP–1	Interior Panel	4	153
CIP–2	Interior Panel	4	153
CIP–3	Interior Panel	8	155
CIP–4	Interior Panel	36	152, 153
CIP–5	Interior Panel	20	154, 155
CIP–5A	Interior Panel	4	155
CIP–6	Interior Panel	2	154
CIP–7	Interior Panel	4	154
CIP–8	Interior Panel	2	152
CIP–9	Interior Panel	2	152
CJA–1	Joist Angle	26	139
CJA–2	Joist Angle	26	139
CJA–3	Joist Angle	2	139
CP–1	Purlin	44	151
CP–2	Purlin	4	151
CPA–1	Wall Post Angle	52	138
CPA–2	Wall Post Angle	52	138
CRA–1	Rafter Angle	80	138
CRA–2	Rafter Angle	2	146, 147
CRA–3	Rafter Angle	16	147
CRA–4	Rafter Angle	4	147
CRP–1	Roof Panel	40	156
CRP–1A	Roof Panel	2	156
CRP–2	Roof Panel	2	157
CRP–3	Roof Panel	2	157
CRP–4	Roof Panel	2	157
CRP–5	Roof Panel	2	157
CRP–6	Roof Panel	2	157
CRP–7	Roof Panel	2	157
CRP–8	Roof Panel	2	157
CRP–9	Roof Panel	2	157
CRP–9A	Roof Panel	2	157
CSA–1	Sill Angle	4	139
CSA–2	Sill Angle	4	139
CSA–3	Sill Angle	4	139
CSA–4	Sill Angle	4	139
CSA–5	Sill Angle	4	139
CSA–6	Sill Angle	2	139

Part No.	Name and Description	No. Pcs.	Pkg. No.
CSA–7	Sill Angle	2	139
CSA–8	Sill Angle	2	139
CSA–9	Sill Angle	2	139
CSA–10	Sill Angle	2	139
CWA–1	Wall Angle	12	140
CWA–2	Wall Angle	12	140
CWA–3	Wall Angle	36	140
CWA–4	Wall Angle	36	140
CWA–5	Wall Angle	30	141
CWA–6	Wall Angle	30	141
CWA–7	Wall Angle	6	142
CWA–8	Wall Angle	6	142
CWA–9	Wall Angle	2	142
CWA–10	Wall Angle	2	142
CWA–11	Wall Angle	8	142
CWA–12	Wall Angle	8	142
CWR–1	Wire Raceways	4	157
CWR–2	Wire Raceway	2	157
CWR–3	Wire Raceway	2	157
CWR–4	Wire Raceway	2	157
CWP–1	Wall Panel	4	159
CWP–2	Wall Panel	4	159
CWP–3	Wall Panel	8	159
CWP–4	Wall Panel	32	159, 160
CWP–5	Wall Panel	24	158
CWP–6	Wall Panel	2	160
CWP–7	Wall Panel	2	160
CWP–9	Wall Panel	2	160
CWP–10	Wall Panel	2	160
CWP–11	Wall Panel	4	160
CWP–12	Wall Panel	2	160
CWP–13	Wall Panel	2	160
CZG–1	Zee Girder	4	148
CZG–2	Zee Girder	4	148
CZG–3	Zee Girder	12	148
CZG–4	Zee Girder	2	148
CZG–5	Zee Girder	2	148
CZG–6	Zee Girder	2	148
CZG–7	Zee Girder	2	148
CZG–8	Zee Girder	2	148
CZG–9	Zee Girder	2	148
CZJ–1	Zee Joist	26	149
CWS–1	Window Sill	60	150
CLS–1	Light Shields	4	151

61. Other Material.

The following are other parts required for 1 N. P. ward.

Name and Description	No. Pcs.	Pkg. No.
3/8" x 3/4" Speed Bolts and Nuts.	20,675	421–425
3/8" x 3/4" Machine Bolts and Nuts Phillips Recessed Binding Head Screw.	2,700	438
#12 x 1 1/2" Long Special Phillips Oval Head Type "Z" Self-Piercing Screw, P. K. Dwg. P–6716.	4,350	439
#14 x 3/4" Type "A" Sheet Metal Screws Binding Head.	850	439
3/8" x 1/2" Cap Screw Parker Kalon Self-Tapping Hex Head.	830	439
3/8" x 1" Speed Bolts and Nuts.	1,625	421
#14 x 1/2" Sheet Metal Screw Phillips Recessed Binding Head-Type "A".	30,580	438
#14 x 5/8" Sheet Metal Screw Phillips Recessed Binding Head-Type "A".	675	439
1/4" x 1/2" Round Head Stove Bolts and Nuts Electro Galvanized.	135	439
3/8" x 4 1/4" Machine Bolts and Nuts Electro Galvanized.	316	439
#12 x 5/8" Type "A" Sheet Metal Screw Phillips Recessed Head.	600	439
3/8" x 2 1/4" Speed Bolts and Nuts.	194	421
#8 x 2" Drive Screw	575	439
#8 x 5/8" Type "A" Sheet Metal Screw Phillips Recessed Binding Head.	1,235	439
#14 x 1" Phillips Binding Sheet Metal Screw.	14	439
1/4" x 1" Flat Head Machine Screws and Nuts.	175	439
Washers for above item	175	439
3/8" Washers	2,500	439
3/8" x 2 1/4" or 3/8" x 2" Speed Bolts and Nuts.	528	278
#6 Galvanized tacks	6 lb	439
#2 Phillips Screw Drivers	4	439
#3 Phillips Screw Drivers	18	439
#4 Phillips Screw Drivers	8	439
Parker Kalon Stop Punch #14	6	439
Drift End Wrench	12	439
44" Paint Brush	2	418
Regular 6" Screw Drivers	2	439
Regular 10" Screw Drivers	4	439
Canvas Underlayment	16 gal	418
Canvas Top Primer	8 gal	418
Canvas Finish Paint	8 gal	418
Turpentine	1 gal	418
Caulking Compound	5 gal	418
Caulking Gun	1	418
Roofing Cement	10 lb	418
UPS–1 Pipe Sleeves	4	439
UPS–2 Pipe Sleeves	1	439
UPS–3 Pipe Sleeves	1	439
Finish Paint-Interior Color	1 gal	284
Finish Paint-Exterior Color	1 gal	284
Ridge Ventilator 64-Right and Left Ward 8-Utility Building 6-Kitchen-Office Building	78 RV–1	329–335
Ventilator Gutters 62-Right and Left Ward 7-Utility Building 5-Kitchen-Office Building	78 VG–1	329–335
End Ventilator Gutters 4-Right and Left Ward 2-Utility Building 2-Kitchen-Office Building	8 VG–2	335
1/2" Insulation Board 4-Right and Left Ward 2-Utility Building	6 WGB–1	415
1/2" Insulation Board 4-Right and Left Ward 2-Utility Building	6 WGB–2	416
1/2" Insulation Board 4-Right and Left Ward 2-Utility Building	6 WGB–3	415

Name and Description	No. Pcs.	Pkg. No.
1/2'' Insulation Board 4-Right and Left Ward 2-Utility Building	6 WGB–4	416
1/2'' Insulation Board 4-Right and Left Ward 2-Utility Building	6 WGB–5	415
1/2'' Insulation Board 4-Right and Left Ward 2-Utility Building	6 WGB–6	416
Steel Sash 116-Right and Left Ward 12-Utility Building 12-Kitchen-Office Building	140 SS–1	321–327
Window Screens 116-Right and Left Ward 12-Utility Building	128 WS–4	321–327
Window Screens 12-Kitchen-Office Building.	12 WS–3	321
Louver Screens 116-Right and Left Ward 10-Utility Building	126 LS–1	321–327
Louver Screens 12-Kitchen-Office Building	12 LS–2	321
Ridge Vent Screens 128-Right and Left Ward 16-Utility Building 12-Kitchen-Office Building	156 VS–1	321–327
Window Screens 60-Both Corridors	60 WS–1	328
Water Heater Enclosure 1-Utility Building	1 U-WHE–5	387
Water Heater Enclosure 1-Utility Building	1 U–WHE–6 & 7	387
10' x 2' x 2" Blanket Insulation. 256-Right and Left Ward 32-Utility Building	288 pieces	397–414
10' x 4' x 1/2" Plywood Floor Panels. 128 Right and Left Ward 12 Kitchen-Office Building	140 PF–1	285–312
Mesh Panels for Right and Left Wards.	36 W–MP–1	336–339
Mesh Panels for Both Corridors.	22 C-MP–1	340–341
Insulation Support for Right and Left Wards.	256 W–IS–1	342–349
Insulation Support for Utility Building.	32 U–IS–1	350
1/2''Plywood Panels for Both Corridors.	24 C–PP–1	318–320
1/2'' Plywood Panels for Both Corridors.	4 C–PP–2	313
1/2'' Plywood Panels for Both Corridors.	1 C–PP–3	313
1/2'' Plywood Panels for Both Corridors.	1 C–PP–4	313
3/8''Plywood Panels for Both Corridors.	48 C–CP–1	314–317
3/8'' Plywood Panels for Both Corridors.	6 C–CP–2	313
Ceiling Panels for Right and Left Ward.	64 W–CS–1	351–361
Ceiling Panels for Right and Left Ward.	62 W–CS–2	361–371
Ceiling Panels for Right and Left Ward.	1 W–CS–2AR	385
Ceiling Panels for Right and Left Ward.	1 W–CS–2AL	385
Ceiling Panels for Right and Left Ward.	62 W–CS–3	372–382
Ceiling Panels for Right and Left Ward.	1 W–CS–3R	382
Ceiling Panels for Right and Left Ward.	1 W–CS–3L	382
Ceiling Panels for Utility Building.	3 U–CS–1	383
Ceiling Panels for Utility Building.	2 U–CS–1A	383
Ceiling Panels for Utility Building.	1 U–CS–1B	383
Ceiling Panels for Utility Building.	1 U–CS–1C	384
Ceiling Panels for Utility Building.	1 U–CS–1D	384
Ceiling Panels for Utility Building.	3 U–CS–2	384
Ceiling Panels for Utility Building.	1 U–CS–2A	384
Ceiling Panels for Utility Building.	1 U–CS–2B	385
Ceiling Panels for Utility Building.	2 U–CS–2C	385
Ceiling Panels for Utility Building.	1 WCS–2D	385
Ceiling Panels for Utility Building.	7 U–CS–3	382–386
Ceiling Panels for Utility Building.	1 U–CS–3R	382
3/8'' Upson Board for Kitchen-Office Building.	2 GB–1R	388
3/8'' Upson Board for Kitchen Office Building.	2 GB–1L	388
3/8'' Upson Board for Kitchen-Office Building.	2 GB–2R	391
3/8'' Upson Board for Kitchen-Office Building.	2 GB–2L	391
3/8'' Upson Board for Kitchen-Office Building.	2 GB–3R	388
3/8'' Upson Board for Kitchen-Office Building.	2 GB–3L	388
3/8'' Upson Board for Kitchen-Office Building.	24 RB–1	388–391
3/8'' Upson Board for Kitchen-Office Building.	16 WB–1	388–391
3/8'' Upson Board for Kitchen-Office Building.	24 WB–2	388–391
3/8'' Upson Board for Kitchen-Office Building.	6 WB–3	389
Single exterior door into nurse's and rooms in Right and Left Wards. Hardware for Each Door: 1 pair half surface hinges (4'') 1 Lock Set 2 pair Panel Hinges (1 1/2'' x 2 1/8'') 6 Door Buttons (1 3/4'')	1 WD–5	392
Single interior door from Kitchen-Office Building to Corridor. Hardware for Door: 1 pair half surface hinges (4'') 1 Lock 1 Knob and Trim 1 Flash Pull 2 Key Plates 2 Pair Panel Hinges 8 Door Buttons	.....	.....

Name and Description	No. Pcs.	Pkg. No.
Double exterior into Kitchen-Office Building. Hardware for Door: 2 pair half surface hinges (4″) 1 Lock Set 4 Pair Panel Hinges 12 Door Buttons (1¾″) 1 Top Bolt 1 Top Bolt	1 WD–7	396
Single interior Door from Right and Left Ward and Corridor. Hardware for Each Door: 1 pair half surface hinges (4″) 1 Lock 2 Key Plates 2 Flush 1 Door Closer	4 WD–8	395
Single exterior Doors into Corridors. Hardware for Each Door: 1 pair half surface hinges (4″) 1 Lock 2 Key Plates 2 Flush Pulls	8 WD–9	393–394
Canvas Duck	4 Rolls	417
Wire Guides	128 WWG–1	419–420–282–283
Wire Guides	16 UWG–1	283

62. Plumbing Material.

One each of the following items are required for 1 N. P. Ward.

Item No.	Description	Length	Pkg. No.
1	4″ Steel Pipe	4′ 1⅜″	435
2	4″ Rec. S. T. 45° Ell		429
3	4″ Steel Pipe	5′ 10⅞″	434
4	4″ Rec. 45°		429
5	4″ Steel Pipe	1′ 3½″	435
6	4″ Rec. L. T. T. Y. Single		430
7	4″ Steel Nipple	8½″	437
8	4″ x 4″ x 3″ Rec. L. T. T. Y. Single.		430
9	4″ Steel Pipe	7′ 5¾″	433
10	4″ Rec. L. T. T. Y. Single		430
11	4″ Steel Pipe	4′ 10⅛″	434
12	4″ x 4″ x 2″ L. T. T. Y. Single.		430
13	4″ Steel Pipe	1′ 9½″	435
14	4″ Rec. Y. Single		430
14A	4″ Blk. Screw Plug		429
15	4″ Steel Pipe	8″	437
16	4″ Rec. Y		430
17	4″ Steel Pipe	8″	437
18	4″ Rec. 45°		429
19	4″ Steel Pipe	1′ 7 13/16″	435
20	4″ x 4″ x 2″ L. T. T. Y. Single.		430
21	4″ Steel Pipe	1′ 7 1/16″	435
22	4″ Rec. Ell 90°		430
23	4″ Nipple	3¾″	437
24	4″ Tucker Fitting		429
30	4″ Steel Pipe	4′ 4½″	435
31	4″ Rec. 90° Ell		430
32	4″ Nipple	4″	437
33	4″ Tucker Fitting		429
34	2″ Steel Pipe	1′ 7¾″	436
35	2″ x 2″ x 1½″ Rec. T. Y. Single.		429
36	1½″ Steel Pipe	1′ 5⅞″	436
37	1½″ P. Trap Fig. 28		429
38	2″ Steel Pipe	5′ 7″	434
39	2″ C. I. Ell, 90°		429
40	2″ Steel Pipe	1′ 0″	437
41	2″ C. I. 90° Ell		429
42	2″ Steel Pipe	1′ 8″	436
50	2″ Steel Pipe	11′ 5¼″	433
51	2″ Rec. Ell 90°		429
52	2″ Steel Pipe	1′ 10½″	436
53	2″ S. T. T. Y		429
54	2″ Steel Pipe	1′ ⅛″	436
55	2″ Rec. P. Trap		429
56	2″ Nipple	2⅞″	437
57	2″ Coupling		429
58	2″ Steel Pipe	5′ 7½″	434
59	2″ C. I. 90° Ell		429
60	2″ Steel Pipe	1′ 8⅝″	436
61	2″ C. I. Ell, 90°		429
62	2″ Steel Pipe	1′ 8″	436
63	4″ Steel Pipe	8⅝″	437
64	4″ Tucker Fitting		429
65	4″ Nipple	7¾″	437
66	4″ x 4″ x 4″ Rec. T. Y		430
67	4″ Steel Pipe	1′ 7¾″	435
68	4″ x 4″ x 4″ Rec. T. Y		430
69	4″ Nipple	5¼″	437
70	4″ x 4″ x 2″ Rec. T. Y		430
71	4″ Pipe	9¾″	437
72	4″ Rec. 90° Ell		430
73	4″ Pipe	7⅝″	437
74	4″ Tucker Fitting		429
75	2″ Nipple	2⅛″	437
75A	2″ Ell 45°		430
75B	2″ Pipe	10⅞″	437
76	2″ x 2″ x 1½″ Rec. T. Y.		429
77	1½″ Nipple	1⅞″	437
78	1½″ Rec. P. Trap	1⅞″	429
79	1½″ Nipple	2″	437
80	1½″ Rec. T. Y		429
81	1½″ Pipe	10¾″	437
82	1½″ Rec. T. Y		429
83	1½″ Pipe	2′ ½″	436
84	1½″ Rec. 90° Ell		429
85	1½″ Nipple	1⅞″	437
86	1½″ Rec. 90° Ell, Short		429
86A	1½″ Nipple	2″	437
87	1½″ Union		429
88	1½″ Nipple	2″	437
89	1½″ Rec. 90° Ell, Short		429
89A	1½″ Nipple	2″	437
90	1½″ Union		429
91	1½″ Nipple	2¾″	437
91A	1½″ Rec. 90° Ell		429
91B	1½″ Pipe	9⅜″	437
92	1½″ 90° Ell, Short		429
92A	1½″ Nipple	2″	437
93	1½″ Union		429
94	2″ Pipe	6′ 3½″	433
95	2″ C. I. 90° Ell		429
96	2″ Nipple	6¼″	437
97	2″ C. I. Ell		429
98	2″ Pipe	1′ 8″	436
99	4″ Pipe	7⅝″	437
100	4″ Tucker Fitting		429
105	3″ Pipe	7′ 11¾″	433
106	3″ Rec. T. Y		430
107	3″ Pipe	1′ 5⅞″	435

Item No.	Description	Length	Pkg. No.
108	3″ Rec. P. Trap		429
109	3′ Pipe (1-Thread)	11″	436
110	3″ Pipe	6 3/8″	437
111	3″ Rec. Ell, 90°		429
111A	3″ Nipple	3″	437
111B	3″ Ell 45°		430
112	3″ Pipe	1′ 3 7/8″	435
113	3 x 3″ x 1 1/2″ Rec. T. Y		429
114	1 1/2″ Pipe	6″	437
115	1 1/2″ Rec. P. Trap		429
116	1 1/2″ Nipple	2″	437
117	1 1/2″ Rec. T. Y		429
118	1 1/2″ Pipe	7 1/4″	437
119	1 1/2″ Rec. T. Y		429
120	1 1/2″ Pipe	2′ 3/8″	436
121	1 1/2″ Rec. Ell, 90°		429
122	1 1/2″ Nipple	5 1/2″	437
123	1 1/2″ x 1 1/4″ Ell, 90°		430
124	1 1/4″ Nipple	2″	437
125	1 1/2″ Nipple	5 1/4″	437
126	1 1/2″ x 1 1/4″ Ell, 90°		430
127	1 1/4″ Nipple	2″	437
128	1 1/2″ Nipple	5 1/4″	437
128A	1 1/2″ Ell, 90°		429
128B	1 1/2″ Pipe	1′ 3/8″	436
129	1 1/2″ x 1 1/4″ Ell, 90°		430
130	1 1/4″ Nipple	2″	437
131	3″ Pipe	8′ 0″	433
135	4″ Pipe	7 7/8″	437
136	4″ x 4″ x 4″ Rec. T. Y		430
137	4″ Pipe	1′ 7 7/8″	435
138	4″ x 4″ x 4″ Rec. T. Y		430
139	4″ Nipple	5″	437
140	4″ x 4″ x 2″ Rec. T. Y		430
141	4″ Pipe	10″	437
142	4″ Rec. Ell, 90°		430
143	4″ Pipe	10 1/8″	437
144	4″ Tucker Fitting		429
145	2″ Nipple	2 1/8″	437
145A	2″ Ell, 45°		430
145B	2″ Pipe	1′ 4 5/8″	436
146	2″ x 2″ x 1 1/2″ Rec. T. Y	1′	429
147	1 1/2″ Pipe	4 7/8″	437
148	1 1/2″ Rec. Trap		429
149	1 1/2″ Nipple	2″	437
150	1 1/2″ Rec. T. Y		429
150A	1 1/2″ Pipe	1′ 3/8″	436
150B	1 1/2″ Ell, 90°		429
151	1 1/2″ Pipe	8 3/8″	437
152	1 1/2″ Rec. T. Y		429
153	1 1/2″ Pipe	2′ 3/8″	436
154	1 1/2″ Rec. Ell, 90°		429
155	1 1/2″ Nipple	5 1/2″	437
156	1 1/2″ x 1 1/4″ Ell, 90°		430
157	1 1/4″ Nipple	2″	437
158	1 1/2″ Nipple	5 1/4″	437
159	1 1/2″ x 1 1/4″ Ell, 90°		430
160	1 1/4″ Nipple	2″	437
161	1 1/2″ Nipple	5 1/4″	437
162	1 1/2″ x 1 1/4″ Ell, 90°		430
163	1 1/4″ Nipple	2″	437
164	2″ Pipe	6′ 2 3/4″	433
164A	2″ Rec. Ell, 45°		430
164B	2″ Pipe	2 1/2″	437
164C	2″ Rec. Ell, 45°		430
164D	2″ Pipe	1′ 8″	436
165	4″ Pipe	9 1/4″	437
166	4″ Tucker Fitting		429
167	4″ Pipe	10 1/2″	437
168	4″ Tucker Fitting		429
200	2″ Gate Valve		429
201	2″ Nipple	6″	437
202	2″ Tee		429
202 1/2	2″ Plug		429
203	2″ Nipple	6″	437
204	2″ Union		429
205	2″ Pipe	4′ 9 1/2″	434
206	2″ Ell, 90°		429
207	2″ Pipe	4′ 8 3/4″	434
208	2″ Ell, 90°		429
209	2″ Pipe	4′ 3 1/4″	435
210	2″ x 2″ x 1″ Tee		430
211	2″ Pipe	10 1/4″	437
212	2″ x 1 1/2″ x 1 1/4″ Tee		429
213	1 1/2″ Pipe	6′ 4 3/8″	433
214	1 1/2″ x 1 1/4″ x 1 1/4″ Tee		429
215	1 1/4″ Pipe	5′ 4 1/4″	434
216	1 1/4″ Ell, 90°		429
217	1 1/4″ Pipe	2′ 10″	435
218	1 1/4″ Ell, 90°		429
219	1 1/4″ Nipple	5 3/4″	437
220	1 1/4″ x 1 1/4″ x 1/2″ Tee		429
221	1 1/4″ Pipe	7″	437
222	1 1/4″ Ell, 90°		429
223	1 1/4″ Pipe	11 1/2″	437
223A	1 1/4″ Union		429
223B	1 1/4″ Pipe	1′ 4 3/8″	436
224	1 1/4″ Ell, 90°		429
225	1 1/4″ Nipple	2″	437
225A	1 1/2″ x 1 1/4″ Bushing		430
225B	1 1/2″ x 1 1/4″ Bushing		430
226	1 1/4″ Nipple	2″	437
226A	1 1/4″ Ell, 45°		430
226B	1 1/4″ Nipple	3 7/8″	437
227	1 1/4″ Union		429
227A	1 1/4″ Nipple	5 3/4″	437
228	1 1/4″ Ell, 90°		429
229	1 1/4″ Pipe	9 1/2″	437
229A	1 1/4″ x 1″ Ell, 90°		430
229B	1″ Nipple	1 1/2″	437
231C	1″ Pipe	12 1/4″	436
231D	1 1/4″ x 1″ Reducer		430
230	1 1/4″ Street Ell, 90°		430
230A	1 1/2″ x 1 1/4″ Bushing		430
230B	2″ x 1 1/4″ Bushing		430
231	1 1/4″ Pipe	2′ 4 1/2″	436
231A	1 1/4″ Union		429
232	1 1/4″ Pipe	1′ 4 1/2″	436
233	1 1/4″ Ell, 90°		429
233A	1 1/4″ Pipe	1′ 5 1/4″	436
233B	1 1/4″ Ell, 90°		429
233C	1 1/4″ Nipple	2″	437
233D	1 1/2″ x 1 1/4″ Bushing		430
234	1 1/2″ Nipple	2″	437
235	1 1/2″ x 1″ Ell, 90°		430
235A	1″ x 3/4″ Bushing		430
235B	1 1/2″ x 3/4″ Bushing		430
236	3/4″ Nipple	4″	437
237	3/4″ Ell, 90°		429
238	3/4″ Pipe	1′ 1/2″	436
238A	3/4″ Globe Valve		429
238B	3/4″ Nipple	2 1/2″	437
239	3/4″ Ell, 90°		429
240	3/4″ Pipe	2′ 0″	436
241	1/2″ Nipple	2″	437
242	1/2″ Union		429
243	1/2″ Nipple	1 1/2″	437
244	1/2″ Ell, 90°		429
245	1/2″ Nipple	4″	437
245A	1/2″ Ell, 90°		429
245B	1/2″ Nipple	2″	437
245C	1/2″ Glove Valve		430
245D	1/2″ Pipe	1′ 8″	436
245E	1/2″ Ell, 90°		429
245F	1/2″ Pipe	1′ 1/2″	436
245G	1/2″ Ell, 90°		429

Item No.	Description	Length	Pkg. No.
245H	1/2" Pipe	7' 0"	433
245J	1/2" Glove Valve		430
245K	1/2" Nipple	4"	437
245L	1/2" Ell, 90°		429
245M	1/2" Nipple	4"	437
245N	1/2" Union		429
245O	1/2" Nipple	4"	437
246	1 1/2" x 1 1/4" Bushing		430
246A	1 1/4" Pipe	2 1/4"	437
246B	1 1/4" Union		429
246C	1 1/4" Nipple	2 1/2"	437
247	1 1/4" Ell, 90°		429
248	1 1/4" Nipple	4 3/4"	437
249	1 1/4" x 1 1/4" x 1/2" Tee		429
250	1 1/4" Pipe	7 1/4"	437
251	1 1/4" Ell, 90°		429
252	1 1/4" Nipple	4"	437
253	1 1/4" x 1 1/4" x 1/2" Tee		430
254	1 1/4" Pipe	13' 1 5/8"	433
255	1 1/4" x 1 1/4" x 3/4" Tee		430
256	1 1/4" Pipe	1' 5 1/4"	436
257	1 1/4" Ell, 90°		429
258	1 1/4" Pipe	3' 4 3/4"	435
259	1 1/4" Ell, 90°		429
259A	1 3/4" Nipple	1 3/4"	437
260	1 1/4" x 1" x 3/4" Tee		429
260A	1 1/4" Nipple	1 3/4"	437
261	1 1/4" Ell, 90°		429
262	1 1/4" Nipple	6 1/4"	437
263	3/4" Nipple	2 1/2"	437
264	3/4" Ell, 90°		429
265	3/4" Nipples	4"	437
266	3/4" x 3/4" x 1/2" Tee		430
267	3/4" Pipe	2' 1 7/8"	436
268	3/4" x 1/2" x 1/2" Tee		430
269	1/2" Pipe	2' 1 1/4"	436
272	1/2" Ell, 90°		429
272A	1/2" Street Ell, 90°		429
272B	1/2" Nipple	3 1/4"	437
272C	1/2" Union		429
272D	1/2" Nipple	2 7/8"	437
272E	1/2" x 1/4" Reducer		430
272F	1/4" Nipple	1 1/2"	437
273	1/2" Street Ell, 90°		429
273A	1/2" Nipple	3 1/4"	437
273B	1/2" Union		429
273C	1/2" Nipple	2 7/8"	437
273D	1/2" x 1/4" Reducer		430
273E	1/4" Nipple	1 1/2"	437
274	1/2" Street Ell, 90°		429
275	1/2" Nipple	3 1/4"	437
275A	1/2" Union		429
275B	1/2" Nipple	2 7/8"	437
275C	1/2" x 1/4" Reducer		430
275D	1/4" Nipple	1 1/2"	437
275E	1/4" Nipple	1 1/2"	437
276	1/2" x 1/4" Reducer		430
277	1/2" Nipple	2"	437
277A	1/2" Union		429
278	1/2" Nipple	2"	437
278A	1/2" Street Ell, 90°		429
279	1/2" Ell, 90°		429
280	1/2" Pipe	2' 1 3/8"	435
281	3/4" x 1/2" x 1/2" Tee		430
281A	1/2" Street Ell, 90°		429
282	1/2" Nipple	2"	437
282A	1/2" Union		429
283	1/2" Nipple	1 7/8"	437
284	1/2" x 1/4" Reducer		430
284A	1/4" Nipple	1 1/2"	437
285	3/4" Pipe	2' 1 3/8"	436
286	3/4" x 3/4" x 1/2" Tee		430
287	3/4" Pipe	4 3/8"	437
288	1/2" Street Ell, 90°		429
288A	1/2" Nipple	2"	437
289	1/2" x 1/4" Reducer		430
289A	1/2" Nipple	1' 7/8"	437
290	1/2" x 1/4" Reducer		430
291	1/4" Nipple	1 1/2"	437
296	3/4" Pipe	1' 3 3/8"	436
297	1 1/4" x 1 x 3/4" Tee		429
298	1" Ell, 90°		429
298A	1" Nipple	1 5/8"	437
298B	1" Street Ell, 90°		430
301	1 1/4" Pipe	4' 2 1/2"	435
302	1 1/4" Ell, 90°		429
303	1 1/4" Nipple	4 1/8"	437
304	1/2" Pipe	3' 5"	435
305	1/2" Ell, 90°		429
306	1/2" Pipe	11"	437
307	1/2" Ell, 90°		429
308	1/2" Pipe	1' 6 3/4"	436
309	1/2" Ell, 90°		429
310	1/2" Pipe	1' 7 5/8"	436
311	1/2" Ell, 90°		429
312	1/2" Pipe	2' 4 1/4"	436
313	1/2" Ell, 90°		429
314	1/2" Faucet Hose Bib		429
335	3/4" Pipe	7' 7"	433
336	3/4" Ell, 90°		429
337	3/4" Nipple	3 3/8"	437
338	3/4" Ell, 90°		429
339	3/4" Pipe	3' 2"	435
340	3/4" Ell, 90°		429
341	3/4" Pipe	9 3/8"	437
342	3/4" x 3/4" x 1/2" Tee		430
343	3/4" Pipe	2' 1 3/8"	436
344	3/4" x 1/2" x 1/2" Tee		430
345	1/2" Pipe	2' 1 3/8"	436
346	1/2" Ell, 90°		429
346A	1/2" Street Ell, 90°		429
347	1/2" Nipple	3 1/2"	437
347A	1/2" Union		429
348	1/2" Nipple	3"	437
349	1/2" x 1/4" Reducer		430
349A	1/4" Nipple	2 1/2"	437
350	1/2" Street Ell, 90°		429
351	1/2" Nipple	3 1/2"	437
351A	1/2" Union		429
352	1/2" Nipple	3"	437
353	1/2" x 1/4" Reducer		430
353A	1/4" Nipple	2 1/2"	437
353B	1/2" Street Ell, 90°		429
354	1/2" Nipple	3 1/2"	437
354A	1/2" Union		429
355	1/2" Nipple	3"	437
356	1/2" x 1/4" Reducer		430
356A	1/4" Nipple	2 1/2"	437
357	1" Pipe	6' 2 1/8"	434
358	1" Ell, 90°		429
359	1" Nipple	6"	437
360	1" x 3/4" x 3/4" Tee		430
361	3/4" Pipe	7 5/8"	437
362	3/4" Ell, 90°		429
363	3/4" Nipple	2 7/8"	437
364	3/4" Street Ell, 90°		430
365	3/4" x 3/4" x 1/2" Tee		430
365A	1/2" Nipple	6"	437
365B	1/2" x 3/8" Reducer		430
365C	3/8" Nipple	5 1/4"	437
366	3/4" Pipe	2' 1 1/8"	436
366A	3/4" x 3/4" x 1/2" Tee		430
366B	1/2" Nipple	6"	437
366C	1/2" x 3/8" Reducer		430
366D	3/8" Nipple	5 1/4"	437
367	3/4" Pipe	2' 1 5/8"	436

Item No.	Description	Length	Pkg. No.
367A	3/4" x 1/2" Ell, 90°		430
367B	1/2" Nipple	6"	437
367C	1/2" x 3/8" Reducer		430
367D	3/8" Nipple	6"	437
375	3/4" Pipe	10 1/4"	437
376	3/4" Ell, 90°		429
377	3/4" Pipe	3' 8 3/8"	435
378	3/4" Ell, 90°		429
379	3/4" Nipple	1 1/4"	437
380	3/4" Ell, 45°		430
381	3/4" Nipple	3 1/2"	437
381A	3/4" x 3/4" x 1/2" Tee		430
382	3/4" Pipe	2' 1 1/8"	436
382A	3/4" x 1/2" x 1/2" Tee		430
383	1/2" Pipe	2' 1 3/8"	436
384	1/2" Ell, 90°		429
384A	1/2" Street Ell, 90°		429
385	1/2" Nipple	1 3/4"	437
385A	1/2" Union		429
385B	1/2" Nipple	1 1/2"	437
385C	1/2" x 1/4" Reducer		430
385D	1/4" Nipple	1 5/8"	437
385E	1/2" Street Ell, 90°		429
386	1/2" Nipple	1 3/4"	437
386A	1/2" Union		429
386B	1/2" Nipple	1 1/2"	437
386C	1/2" x 1/4" Reducer		430
386D	1/4" Nipple	1 5/8"	437
386E	1/2" Street Ell, 90°		429
387	1/2" Nipple	1 3/4"	437
387A	1/2" Union		429
387B	1/2" Nipple	1 1/2"	437
387C	1/2 x 1/4" Reducer		430
387D	1/4" Nipple	1 5/8"	437
390	1 1/4" Pipe	6' 2 3/8"	434
391	1 1/4" x 3/4" x 1 1/4" Tee		430
391A	3/4" Nipple	2 3/8"	437
391B	3/4" Ell, 90°		429
392	1 1/4" Nipple	1 3/4"	437
393	1 1/4" x 3/4" x 3/4"		429
394	3/4" Pipe	3' 8 1/2"	435
395	3/4" Ell, 90°		429
396	3/4" Nipple	1 1/2"	437
397	3/4" x 3/4" x 1/2" Tee		430
398	3/4" Pipe	2' 1 1/4"	436
399	3/4" x 3/4" x 1/2" Tee		430
400	3/4" Pipe	2' 1 1/4"	436
401	3/4" x 1/2" Ell, 90°		430
401A	1/2" Street Ell, 90°		429
402	1/2" Nipple	2 7/8"	437
402A	1/2" Union		429
403	1/2" Street Ell, 90°		429
404	1/2" Nipple	2 7/8"	437
405	1/2" Union		429
407	1/2" Street Ell, 90°		429
408	1/2" Nipple	3 1/8"	437
408A	1/2" Union		429
411	3/4" Pipe	9 1/2"	437
412	3/4" Ell, 90°		429
413	3/4" Pipe	10"	437
414	3/4" Ell, 90°		429
414A	3/4" Nipple	2 1/4"	437
414B	3/4" Ell, 90°		429
415	3/4" Pipe	1' 2 1/4"	436
416	3/4" x 3/4" x 1/2" Tee		430
417	3/4" Pipe	2' 1 3/4"	436
418	3/4" x 3/4" x 1/2" Tee		430
419	3/4" Pipe	2' 0 7/8"	436
420	3/4" x 1/2" Ell, 90°		430
421	1/2" Nipple	5 7/8"	437
422	1/2" x 3/8" Reducer		430
423	3/8" Nipple	5 1/2"	437

Nos. 368 to 374 not used.

Item No.	Description	Length	Pkg. No.
424	1/2" Nipple	6 1/4"	437
425	1/2" x 3/8" Reducer		430
426	3/8" Nipple	5"	437
427	1/2" Nipple	6"	437
438	1/2" x 3/8" Reducer		430
429	3/8" Nipple	5"	437
430	3/4" Pipe	10' 9 5/8"	433
431	3/4" Ell, 90°		429
431A	3/4" Street Ell, 90°		430
432	3/4" Pipe	3' 7"	435
435	3/4" Ell, 90°		429
436	3/4" Pipe	1' 8 3/8"	436
437	3/4" x 3/4" x 1/2" Tee		430
438	3/4" Pipe	2' 2 1/4"	436
439	3/4" x 3/4" x 1/2" Tee		430
442	1/2" Pipe	2' 9 1/2"	435
443	1/2" Ell, 90		429
444	1/2" Nipple	2 3/4"	437
445	1/2" Union		429
446	1/2" Nipple	3 1/8"	437
447	1/2" x 1/4" Reducer		430
447A	1/4" Nipple	2 1/8"	437
448	3/4" Pipe	2' 1 1/4"	436
449	3/4" x 1/2" x 1/2" Tee		430
450	1/2" Street Ell, 90°		429
451	1/2" Nipple	1 3/4"	437
452	1/2" Ell, 90°		429
453	1/2" Nipple	2"	437
454	1/2" x 1/4" Reducer		430
455	1/2" Nipple	8 1/8"	437
456	1/2" Ell, 90°		429
457	1/2" Nipple	1 1/2"	437
458	1/2" Ell, 90°		429
459	1/2" Nipple	4 1/2"	437
459A	1/2" x 1/4" Reducer		430
460	1/2" Nipple	1"	437
461	1/2" Union		429
462	1/2" Street Ell, 90°		429
462A	1/2" Nipple	6 3/8"	437
463	1/2" Pipe	11' 0 3/4"	433
464	1/2" Ell, 90°		429
465	1/2" Pipe	3' 7 1/4"	435
466	1/2" Ell, 90°		429
467	1/2" Pipe	2' 7 3/4"	435
467A	1/2" Union		429
467B	1/2" Pipe	10 1/2"	437
468	1/2" x 1/2" x 1/2" Tee		430
469	1/2" Pipe	1' 11 1/4"	436
470	1/2" Ell, 90°		429
471	1/2" Pipe	2' 0 3/4"	436
472	1/2" Ell, 90°		429
473	1/2" Nipple	1 1/4"	437
474	1/2" Union		429
475	1/2" Nipple	1 7/8"	437
475A	1/2" x 1/4" Reducer		430
475B	1/4" Nipple	2 1/8"	437
476	1/2" Nipple	6 3/8"	437
477	1/2" Pipe	8 5/8"	437
478	1/2" Ell, 90°		429
479	1/2" Pipe	4' 10 1/2"	434
480	1/2" Ell, 90°		429
481	1/2" Pipe	5' 9"	434
482	1/2" Ell, 90°		429
483	1/2" Pipe	1' 3"	436
484	1/2" Ell, 90°		429
485	1/2" Pipe	2' 1 1/4"	436
485A	1/2" Ell, 90°		429
485B	1/2" Faucet (Plain)		429
486	1/2" Nipple	2 1/2"	437
487	1/2" Ell, 90°		429
488	1/2" Nipple	6 3/8"	437
489	1/2" Ell, 90°		429
490	1/2" Nipple	5 1/2"	437

Item No.	Description	Length	Pkg. No.
491	1/2" Nipple	2 1/2"	437
492	1/2" Ell, 90°		429
493	1/2" Pipe	2' 9 3/8"	435
494	1/2" Ell, 90°		429
495	1/2" Pipe	1' 1 1/4"	436
496	1/2" Nipple	2 1/2"	437
497	1/2" Ell, 90°		429
498	1/2" Pipe	4' 11 7/8"	434
499	1/2" Ell, 90°		429
500	1/2" Pipe	1' 5 3/8"	436
501	Angle Check Stop		284
502	Angle Check Stop		284
503	Thermo. Water Mixing Valve.		284
504	1" Nipple	5 7/8"	437
504A	1 1/4" x 1" Bushing		430
505	1" x 3/4" Cross Fitting		429
506	1" x 3/8" Bushing		430
507	3/4" Nipple	2 1/2"	437
508	3/4" x 1/2" Ell, 90°		430
509	1/2" Nipple	1 1/2"	437
510	1/2" Globe Valve		430
511	1/2" Nipple	3"	437
512	1/2" Union		429
513	Thermo. 20° F. to 180° F		284
514	3/4" Nipple	2 1/2"	437
515	3/4" x 3/4" x 1/2" Tee		430
516	1/2" Nipple	1 1/2"	437
517	1/2" Globe Valve		430
518	1/2" Nipple	3"	437
519	1/2" Union		429
520	3/4" Nipple	2 1/2"	437
521	3/4" x 1/2" 90° Ell		430
522	1/2" Nipple	1 1/2"	437
523	1/2" Globe Valve		430
524	1/2" Nipple	3"	437
525	1/2" Union		429

Number of items per unit	Description	Pkg. No.
16	Lbs. Lead	284
2	Lbs. Caulking Oakum	284
1	3" Floor Plate #20 Blk. Oxide	284
8	2" Floor Plate #20 Blk. Oxide	284
2	1 1/4" Floor Plate #20 Blk. Oxide	284
6	3/4" Floor Plate #20 Blk. Oxide	284
5	1/2" Floor Plate #20 Blk. Oxide	284
100	Ft. Strap Iron	284
4 doz	1/4 x 1" Stove Bolts	284
364	#14 x 1/2" P. H. B. H. S. M. Screws—Galv.	284
6	#12 x 1/2" P. H. B. H. A—S. M. Screws	284
6	Type A-Metal Water Closet with tank and trim w/all exterior surface including tank and inside of bowl and outside skirt finished in enamel	432, 433
66	Type A-Prison type metal lavatories w/waste arms to wall and concealed supply fixture per drawing #9889 N. P. lavatory baked enamel finish.	427
1	Type B regular metal lavatory w/trim less trap per drawing #9775 to have baked enamel finish.	428
3	Metal Urinals w/trim, per drawing #9856 N. P. Fixture to have baked enamel.	428

Number of tems per unit	Description	Pkg. No.
1	C–7451 rough brass concealed bedpan cleanser w/1/2" compression valves w/renewable seats indexed 4-arm handles escutcheons, vacuum breakers, spray hook w/3/8" rubber hose lever operated, self-closing stop, 1 1/2" spray head and 1/2" screw driver check stops.	430
3	C–4879 x 1/2" rough brass vandal proof prison shower head.	430
1	Cast Iron Floor Drain w/13" diameter top w/top grate vandalproof w/ screws counter-sunk in face of strainer (less inside strainer) w/3" outlet for inside caulk.	284
1	24" x 72" vertical standard welded Range boiler w/a capacity of 140 gallons w/one coat Blk. asphalt paint and 6 tappings.	426
1	Watts #40–XL Combination P & T R Valve.	284
1	Service Sink	280
1	#04–50 Liquid Fired Water Heater w/oil burner.	279
2	Type "B" Water Closets	281

63. Electrical Material.

The following are included for one N. P. Ward.

Name and description	No. Pcs.	Pkg. No.
Mounting Strap (Single Opening).	21	284
Mounting Strap (Three Opening).	5	284
Device Plate (Open Opening Vertical).	20	284
Device Plate (Two Opening)	2	284
Device Plate (Three Opening)	2	284
Switch Flush Lock (Type S. P. 10. A125 V. Fed. Spec. WS–986).	30	284
Cable Straps	30	284
9–32–1/2" Machine Screws	75	284
Cable—2 Cond. #14 Nonmetallic Sheathed.	175 feet	284
Conductor—#14 Single Type SN Insulation.	750 feet	284
Switch-Flush Tumbler (S. P. 10A. 125 V. Fed. Spec. WS–896).	4	284
Box-Steel, Flush Utility (4" x 2 1/8" x 1 7/8" Deep).	2	284
Device Plate, Steel (One Opening Vertical).	1	284
Device Plate, Steel (Three Opening).	1	284
Strap—1/2" Conduit (Two Hole)	10	284
Box Connector for 1/2" Electric Metallic Tubing.	9	284
Bushing End for 1/2" Electric Metallic Tubing.	5	284
Sockets—Cleat, Medium Screw Base.	8	284
EMT–1 Tubing	4	284
EMT–2 Tubing	2	284
EMT–3 Tubing	2	284

Section XI

MAINTENANCE, DISMANTLING AND REERECTION

64. Maintenance.

All exposed component members damaged during erection should be treated with a coat of paint to prevent rusting. All hinged doors and windows should be lubricated to prevent freezing or rusting and assure easy operation. All wood in contact with earth should be given a preservative treatment against fungi and termite damage.

65. Dismantling.

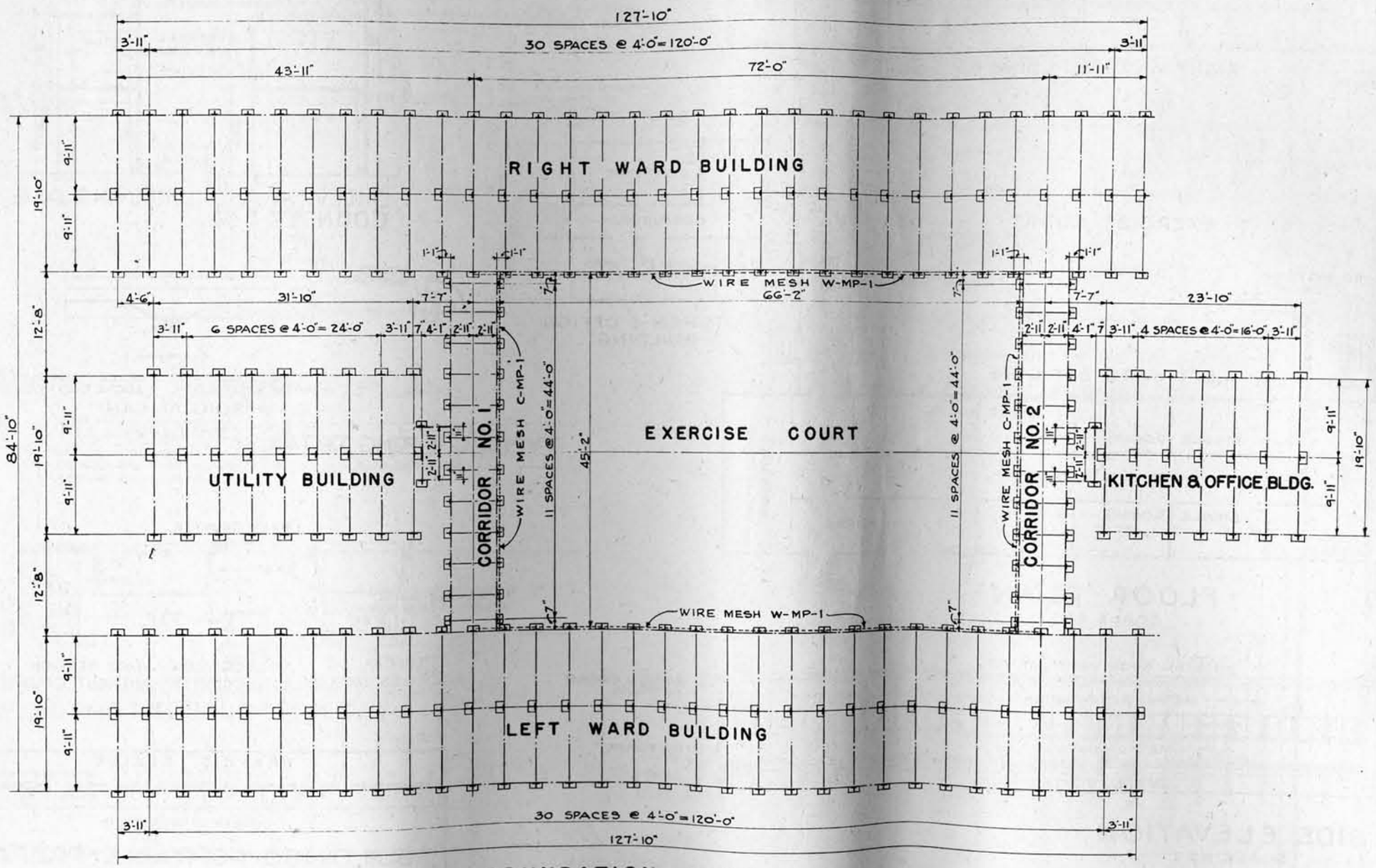
The dismantling of the building should be accomplished in approximately the reverse order for erection, however as much of the building as possible should be left in sections which can be handled easily by available transportation facilities. Proper care should be exercised to prevent damage to the component members, especially the interior finishes and roof insulation during inclement weather. All damaged or metal exposed during dismantling should be given a coat of paint to prevent rusting. Fungi treatment should be applied to the plywood floors at time of dismantling. Careful collection of screws, nuts and bolts is important as only 10 percent is provided for erection. When possible as much material with identical markings should be grouped and crated for shipment.

66. Reerection.

The reerection of the buildings will generally follow the erection procedure described herein, except those parts which remain in sections on dismantling. Additional screws, bolts and nuts are furnished to replace those lost or damaged during dismantling. The special features of the building will require careful preliminary planning to accomplish rapid erection.

BUILDINGS—PORTABLE—PREFABRICATED

Plate Nos. 1 to 37 inclusive



FOUNDATION PLAN
SCALE NO. 2

GRAPHIC SCALES

SCALE NO. 1 | SCALE NO. 2 | SCALE NO. 3 | SCALE NO. 4 | SCALE NO. 5

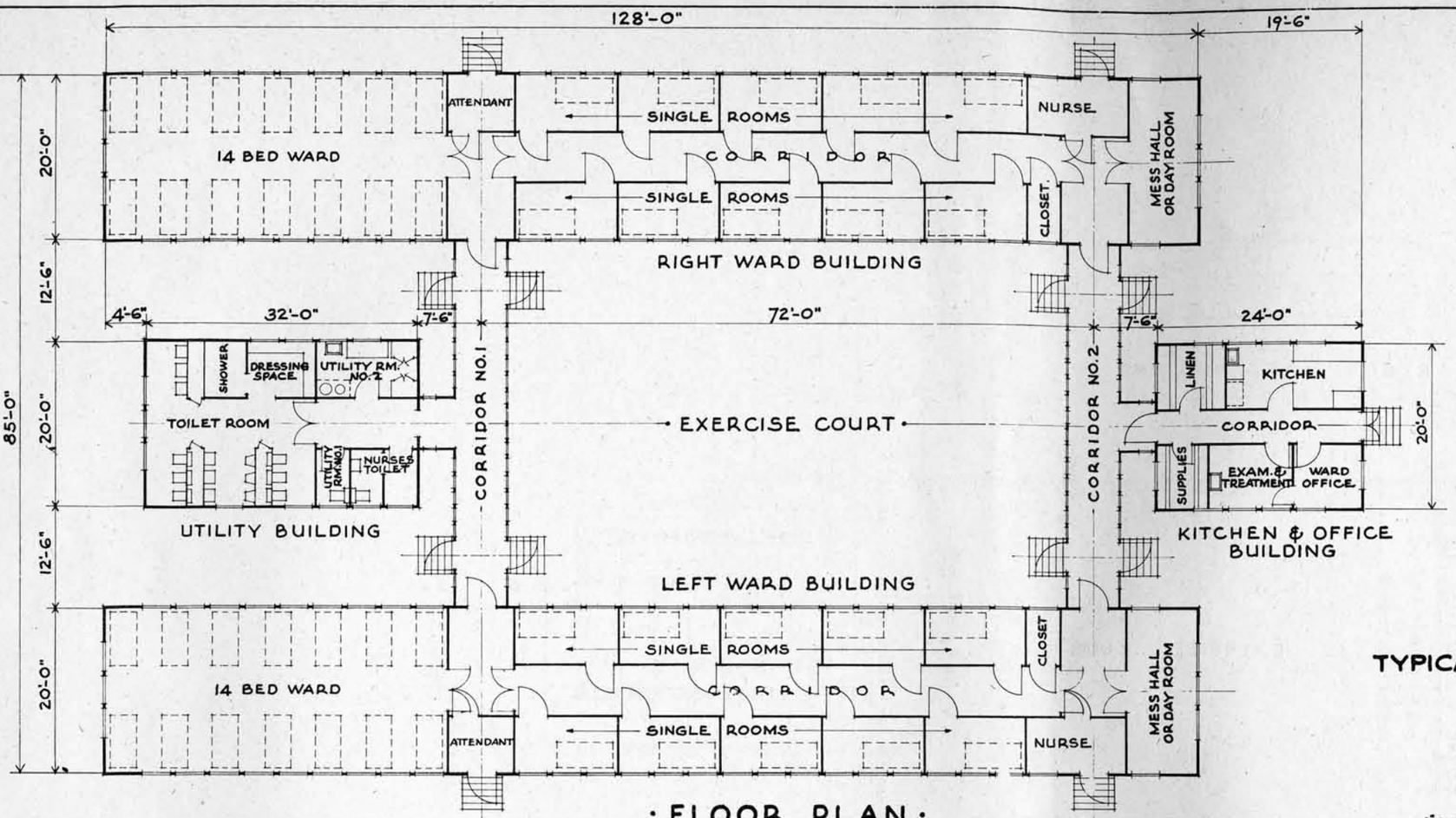
THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB.

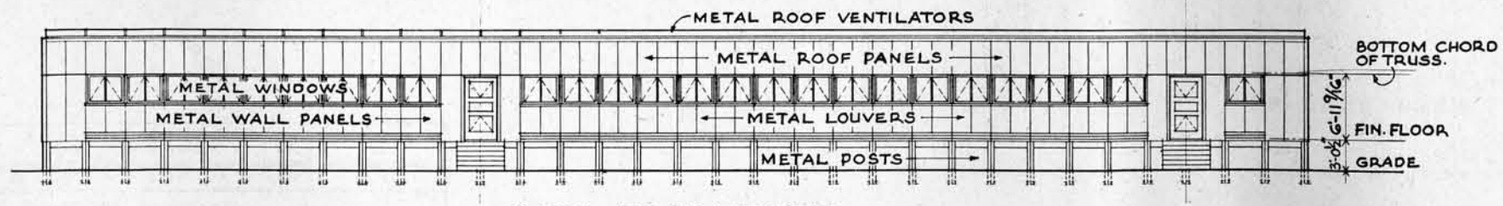
N. P. WARD

STEEL (ANGLE FRAME) TROPICAL

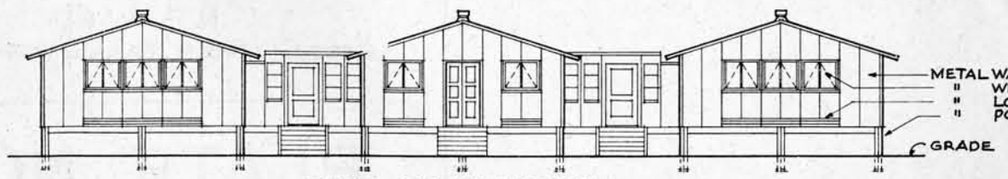
PLATE NO. 1



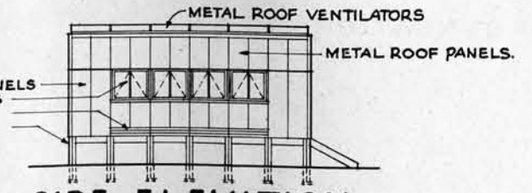
· FLOOR PLAN ·
SCALE NO. 2



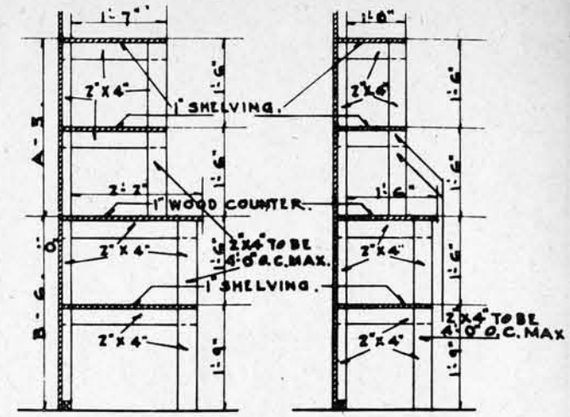
· SIDE ELEVATION ·
SCALE NO. 2



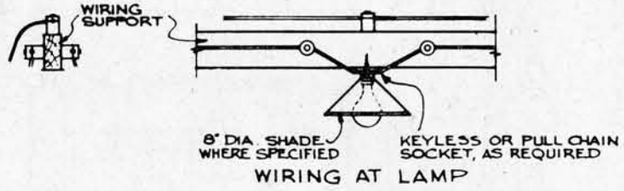
· END ELEVATION ·
SCALE NO. 2



SIDE ELEVATION ·
KITCHEN & OFFICE BUILDING
SCALE NO. 2 (UTILITY BLDG., SIMILAR)



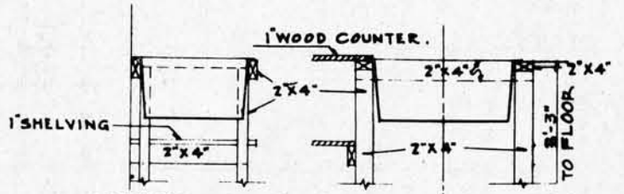
SHELVING A-5. SHELVING A-6.
COUNTER B-6.



WIRING AT LAMP

TYPICAL WIRING DETAILS

NO SCALE.



TYPICAL CROSS SECTION. HALF SECTION WITH COUNTER. HALF SECTION WITHOUT COUNTER.

SINK SUPPORTS

GRAPHIC SCALES

SCALE NO. 1 · SCALE NO. 2 · SCALE NO. 3 · SCALE NO. 4 · SCALE NO. 5

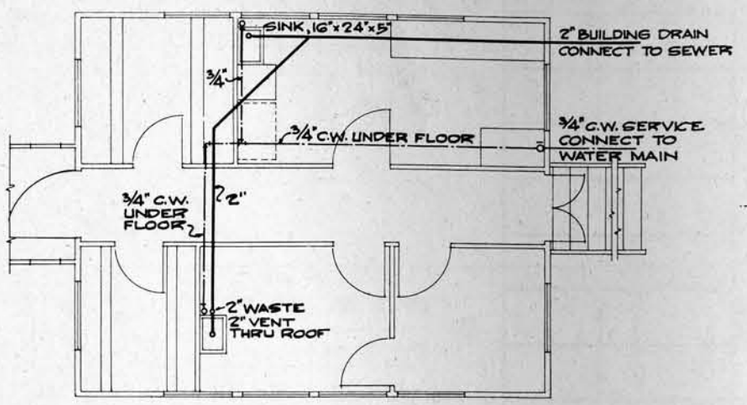
THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB.

N.P. WARD

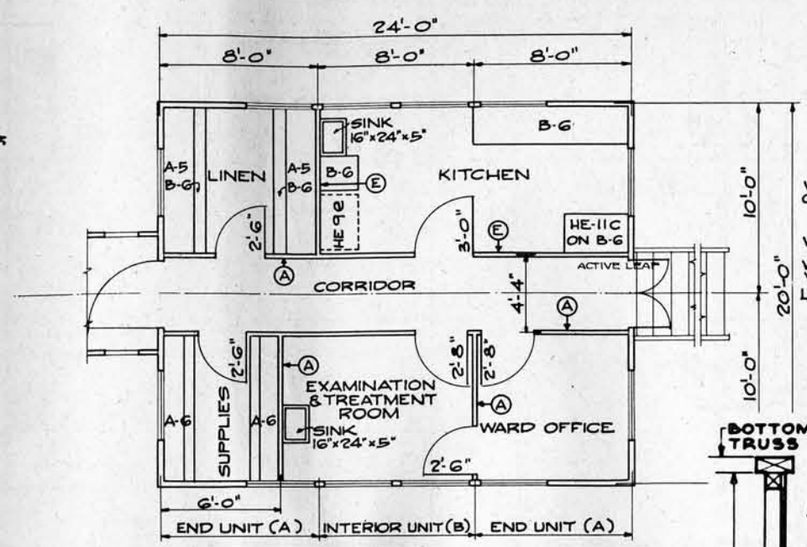
STEEL (ANGLE FRAME) TROPICAL

PLATE NO. 2

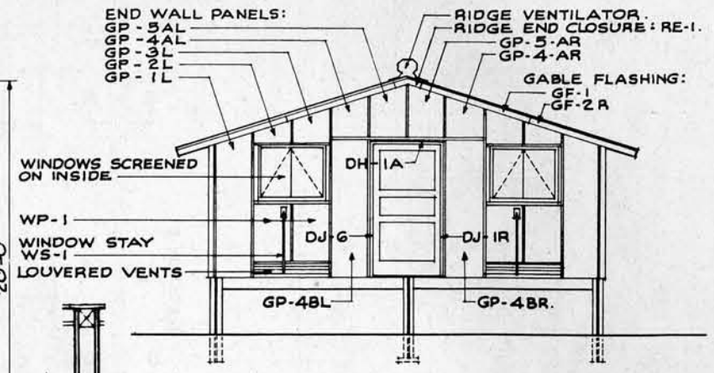


PLUMBING PLAN
SCALE NO. 3

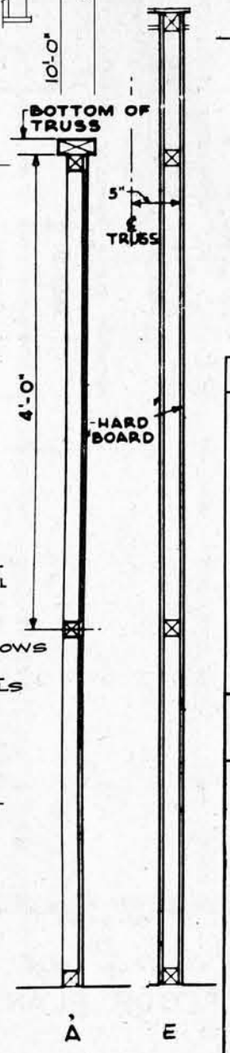
PLUMBING NOTES	LEGEND
¾" COMPRESSION FAUCET SHALL BE INSTALLED 8" ABOVE EACH SINK.	DRAIN OR WASTE ——— W. COLD WATER —·—·—·— C.W.

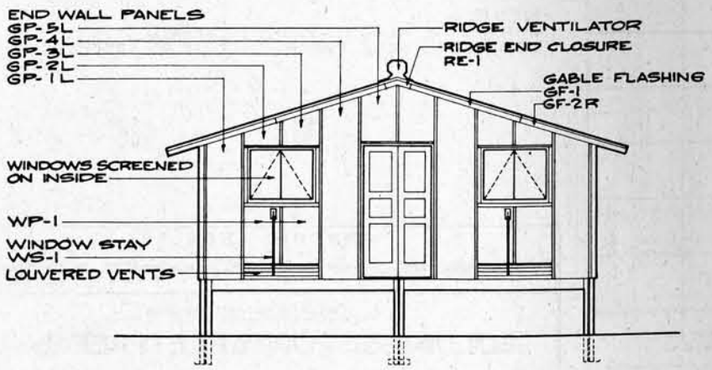


KITCHEN & OFFICE BUILDING
SCALE NO. 3

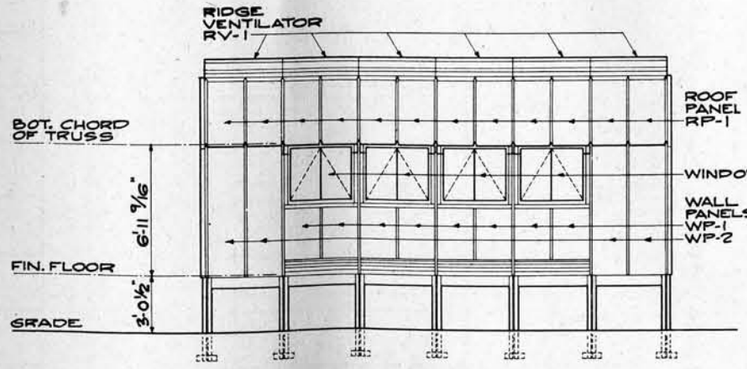


END ELEVATION
(CORRIDOR)
SCALE NO. 3





FRONT ELEVATION
SCALE NO. 3



SIDE ELEVATION
OPPOSITE SIDE SAME
SCALE NO. 3

NOTES

FINISH SHALL BE APPLIED TO PARTITION SIDE INDICATED BY SYMBOL Ⓐ→

PARTITIONS, SHELVING AND COUNTERS SHALL BE CONSTRUCTED OF MATERIALS LISTED IN BILL OF MATERIALS AND AS DETAILED IN DRAWINGS, FILE NO. T.O. 11. 41 A LISTED AS REFERENCE DRAWINGS.

GRAPHIC SCALES

SCALE NO. 1 · SCALE NO. 2 · SCALE NO. 3 · SCALE NO. 4 · SCALE NO. 5

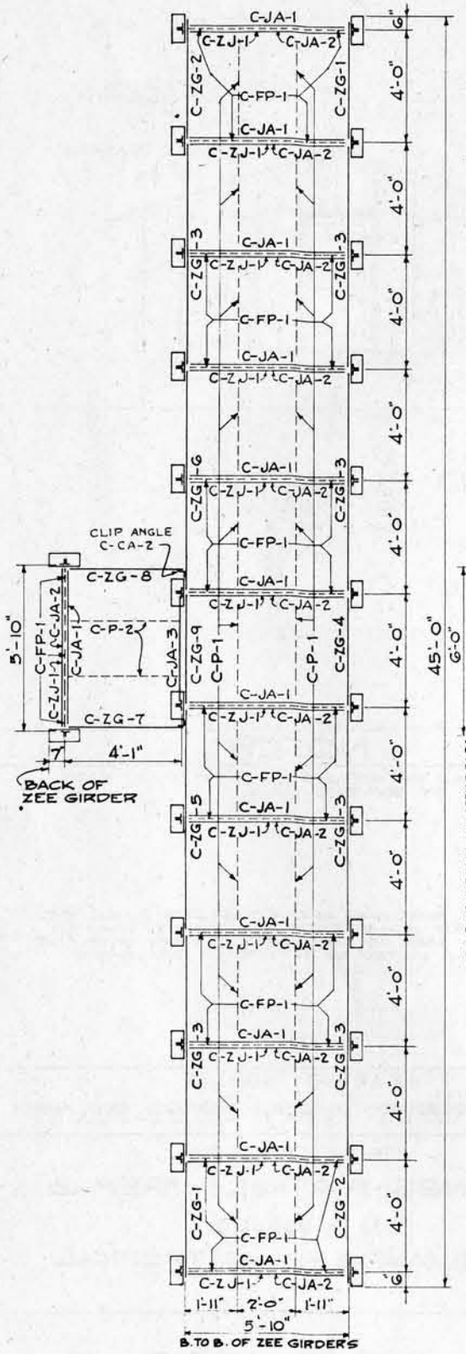
THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB.

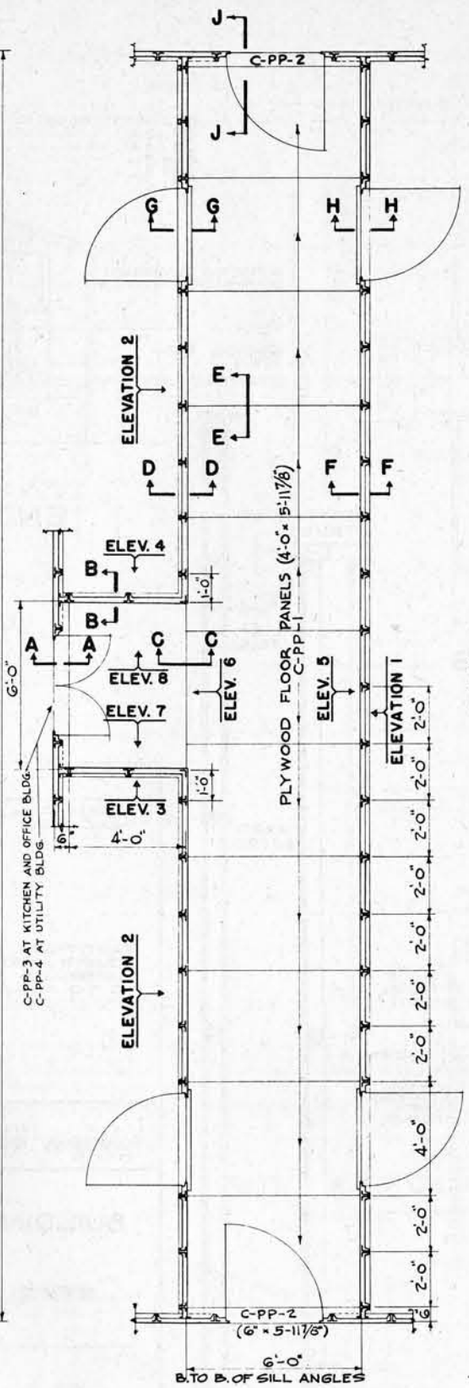
N.P. WARD

STEEL (ANGLE FRAME) TROPICAL

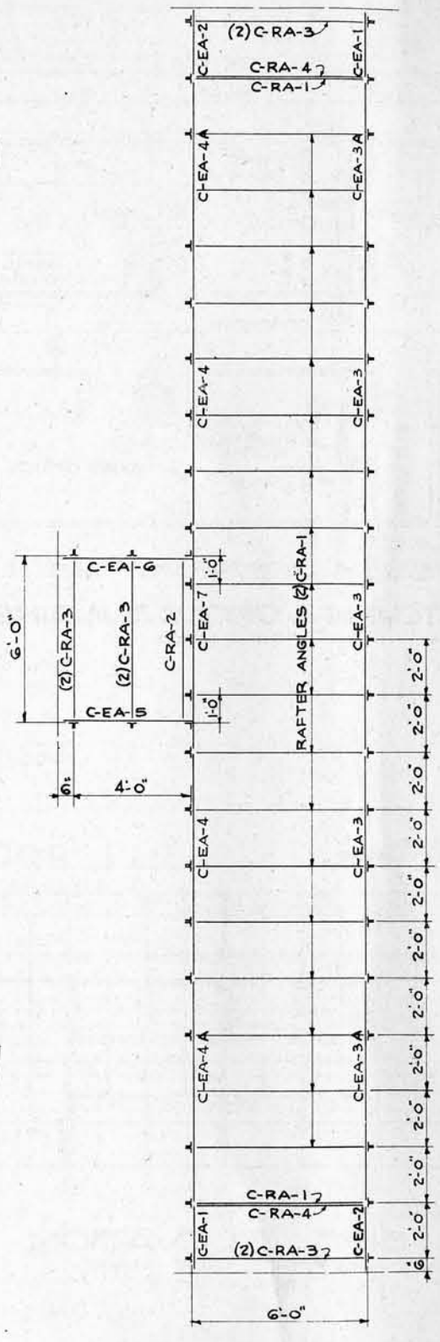
PLATE NO. 3



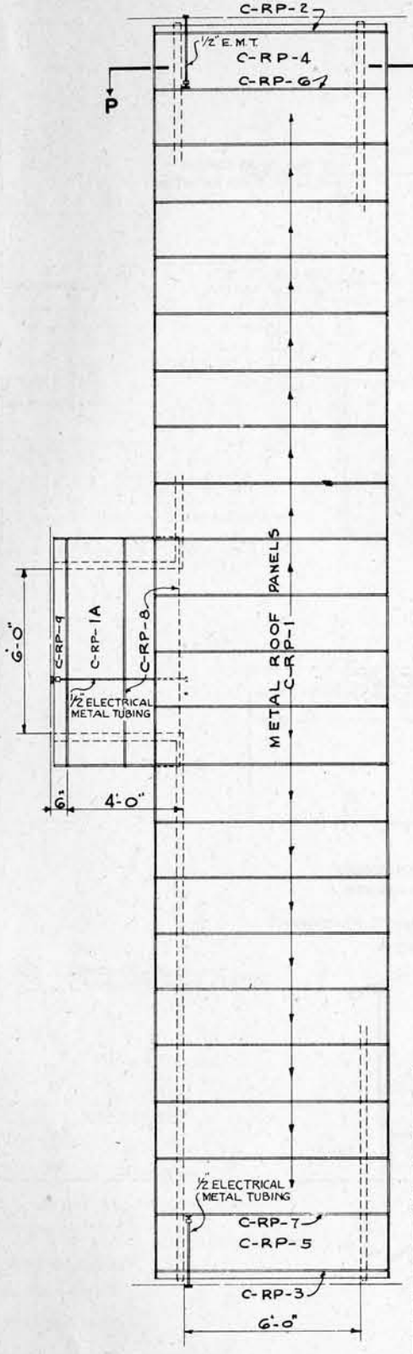
FLOOR FRAMING PLAN



FLOOR PLAN



ROOF FRAMING PLAN



ROOF PLAN

SCALE NO. 4

NOTE—
CORRIDOR NO.1 TO BE AS SHOWN.
CORRIDOR NO.2 SAME EXCEPT AS NOTED

GRAPHIC SCALES

SCALE NO. 1 · SCALE NO. 2 · SCALE NO. 3 · SCALE NO. 4 · SCALE NO. 5

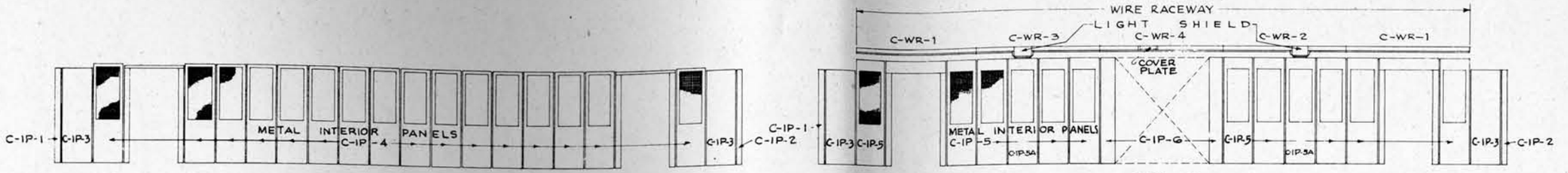
THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB.

N.P. WARD

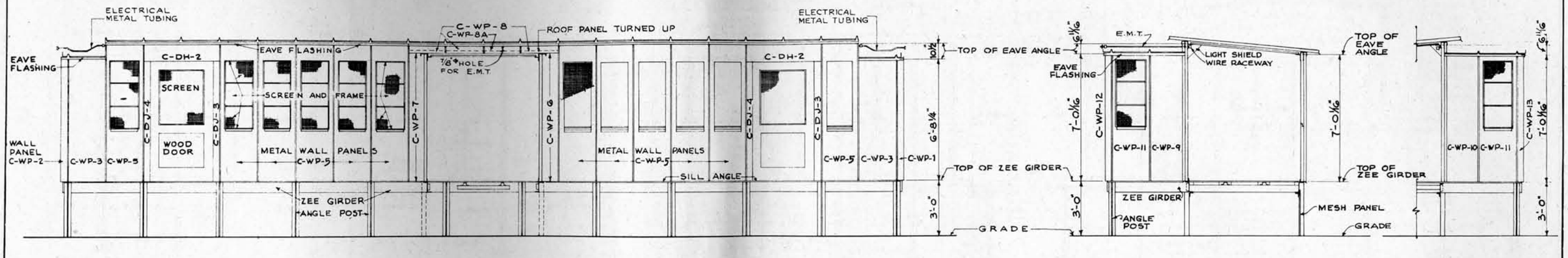
STEEL (ANGLE FRAME) TROPICAL

PLATE NO. 4



NO. 5 NO. 6 NO. 7 NO. 8

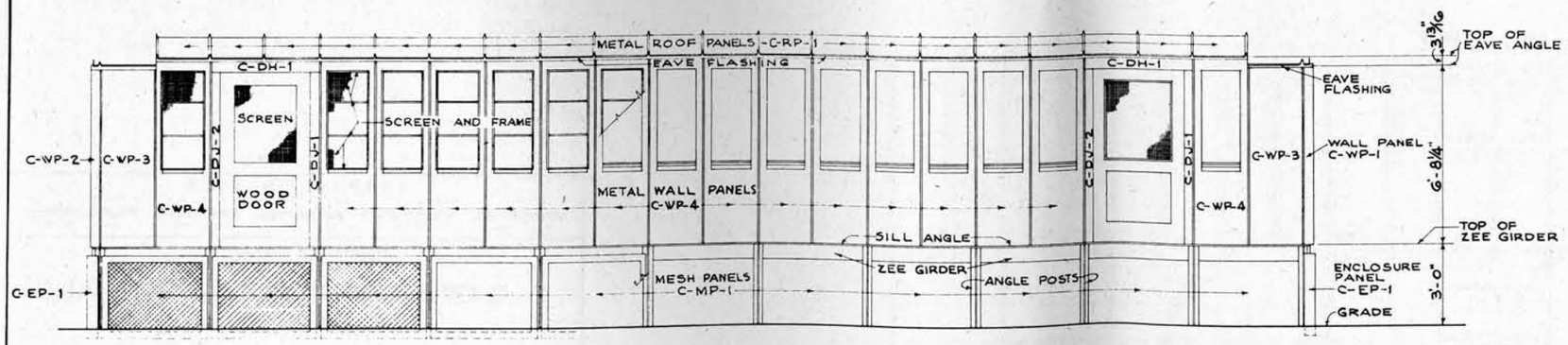
INTERIOR WALL ELEVATIONS
SCALE NO. 3



ELEVATION - 2
SCALE NO. 4

ELEVATION - 3
SCALE NO. 4

ELEVATION - 4



ELEVATION - 1
SCALE NO. 4

GRAPHIC SCALES
SCALE NO. 1 SCALE NO. 2 SCALE NO. 3 SCALE NO. 4 SCALE NO. 5

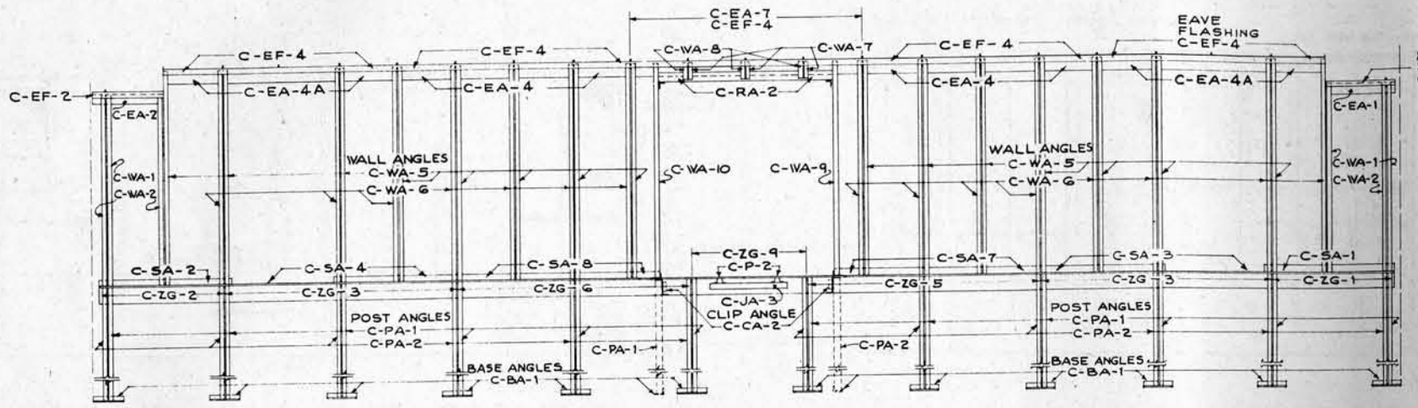
THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB.

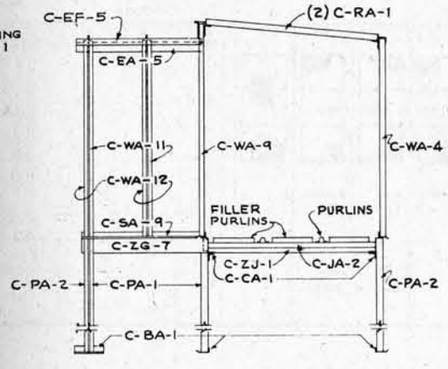
N. P. WARD

STEEL (ANGLE FRAME) TROPICAL

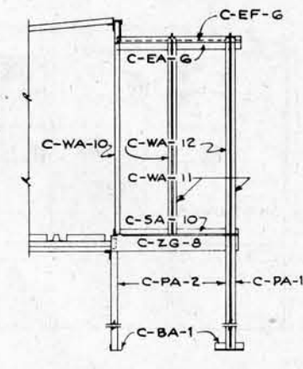
PLATE NO. 5



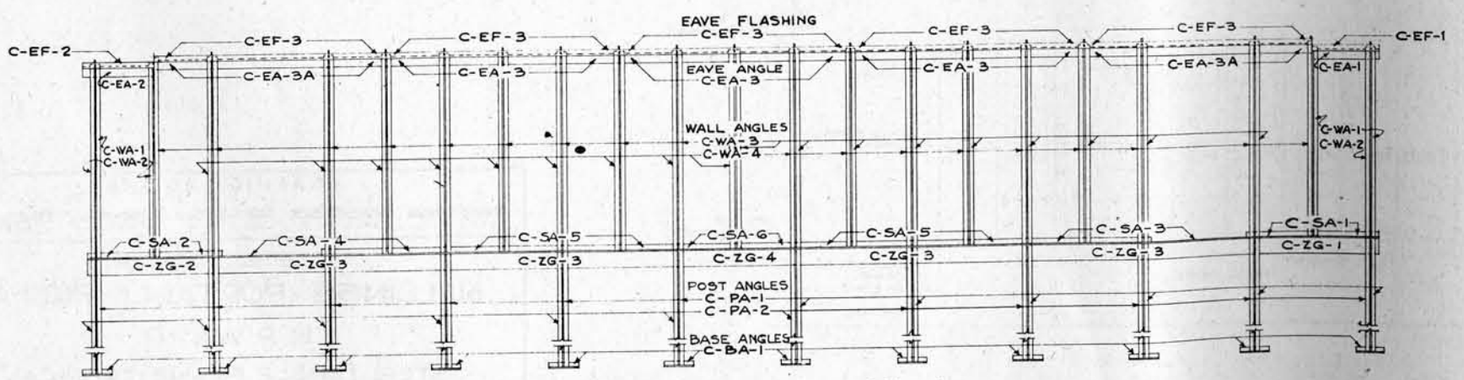
FRAMING ELEVATION 2
SCALE NO. 4



FRAMING ELEVATION 3



FRAMING ELEVATION 4
SCALE NO. 4



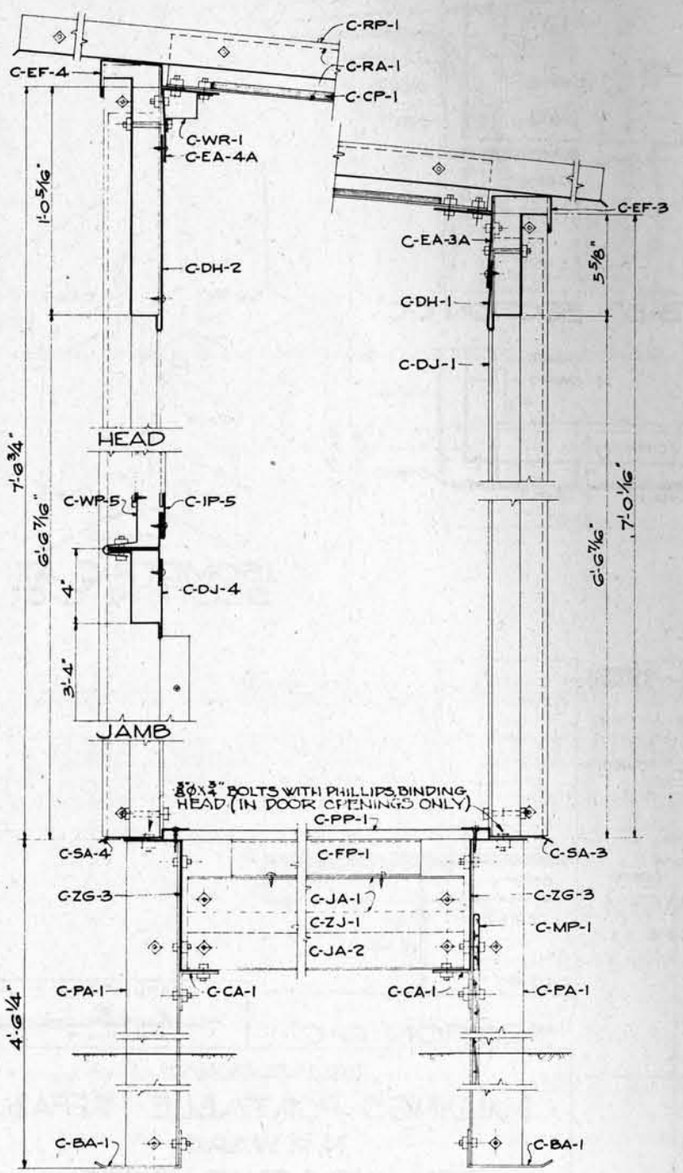
FRAMING ELEVATION 1
SCALE NO. 4

GRAPHIC SCALES
SCALE NO. 1 · SCALE NO. 2 · SCALE NO. 3 · SCALE NO. 4 · SCALE NO. 5

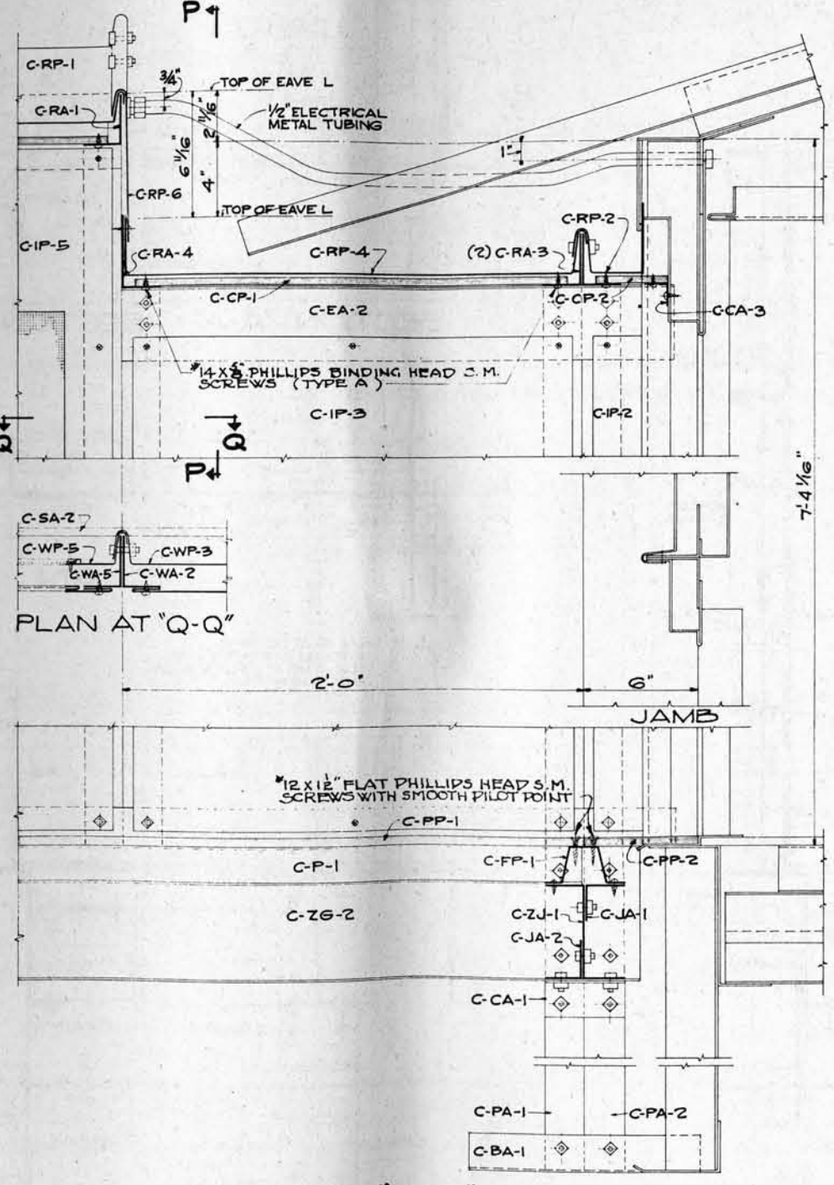
THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB.
N. P. WARD
STEEL (ANGLE FRAME) TROPICAL

PLATE NO. 6

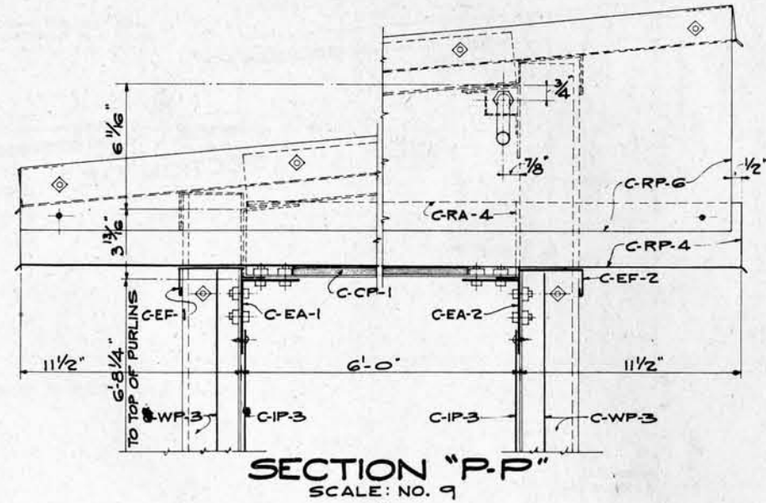


SECTION "G-G" SECTION "H-H"
SCALE NO. 9

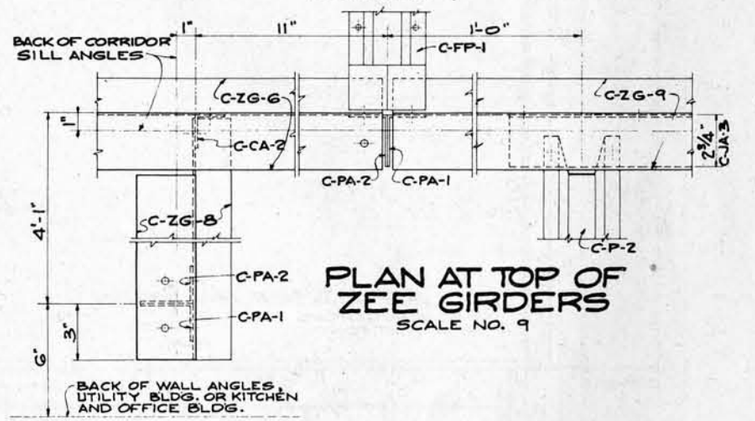


SECTION "J-J"
SCALE NO. 9

NOTES—
ALL BOLTS NOT OTHERWISE NOTED TOBE 3/8"x3/4".
ALL SCREWS NOT OTHER WISE NOTED TOBE #14-x 1/2" PHILLIPS BINDING HEAD S.M. (TYPE A)



SECTION "P-P"
SCALE: NO. 9



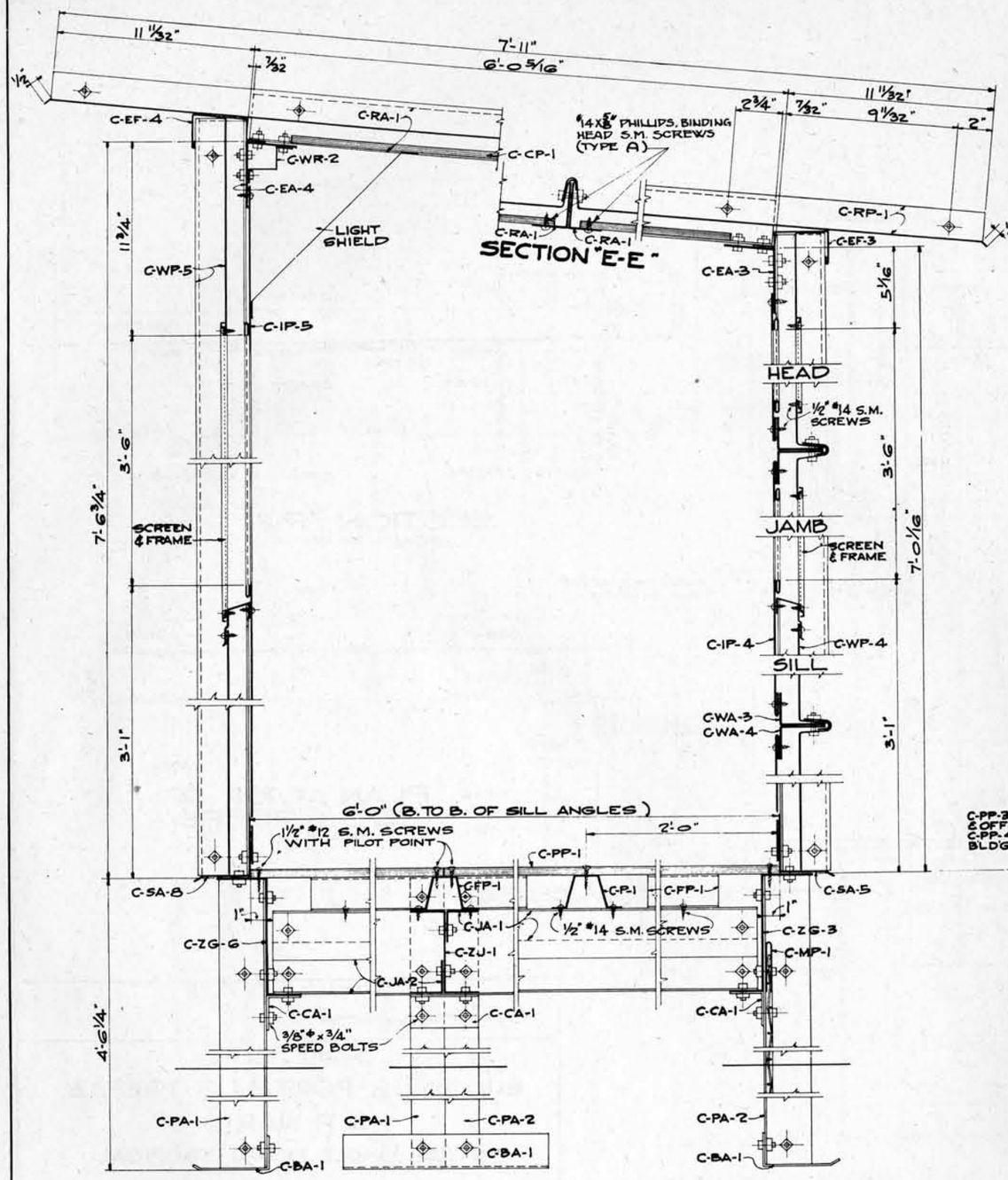
PLAN AT TOP OF ZEE GIRDERS
SCALE NO. 9

GRAPHIC SCALES
0 3" 6" 1'
SCALE NO. 9

THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB.
N. P. WARD
STEEL (ANGLE FRAME) TROPICAL

PLATE NO. 7



SCALE NO. 9. NOTE - ALL BOLTS NOT OTHERWISE NOTED TO BE 3/8ø x 3/4". ALL SCREWS NOT OTHERWISE NOTED TO BE #14 x 1/2" PHILLIPS, BINDING HEAD S.M. (TYPE A)

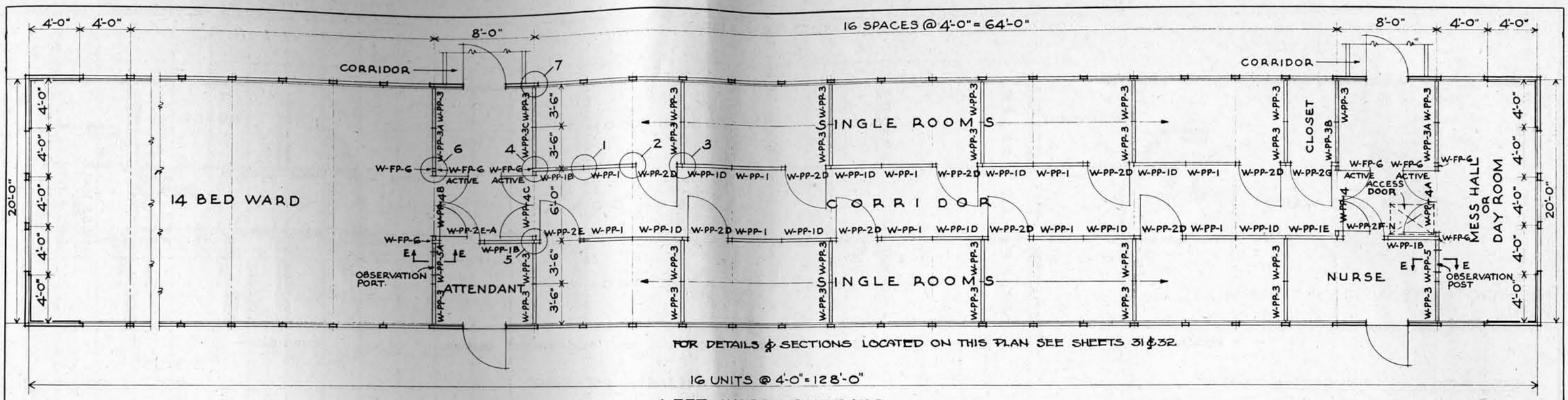
THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB.

N. P. WARD

STEEL (ANGLE FRAME) TROPICAL

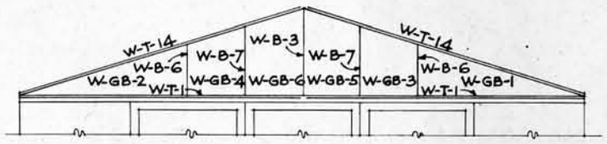
PLATE NO. 8



FOR DETAILS & SECTIONS LOCATED ON THIS PLAN SEE SHEETS 31 & 32.

· LEFT WARD BUILDING · · FLOOR PLAN ·

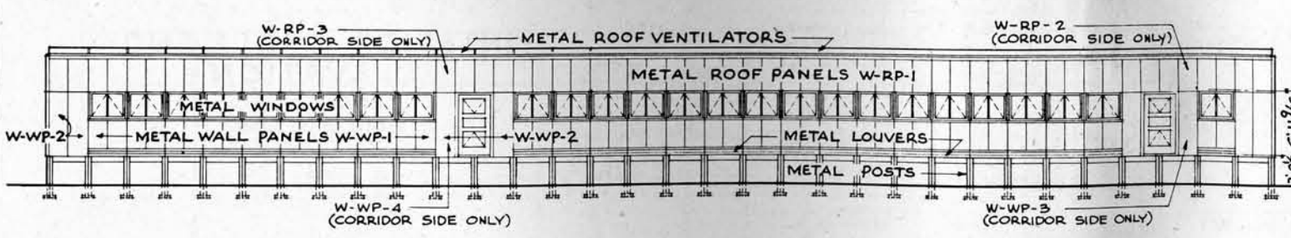
SCALE NO. 3



· INTERIOR GABLE END ELEVATION ·

SCALE NO. 4

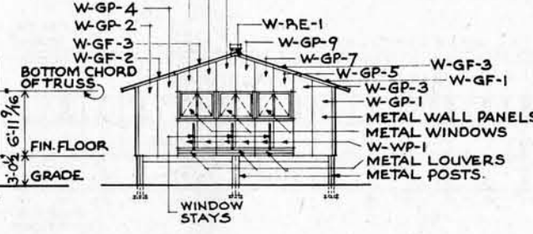
BOTH ENDS SAME.



· SIDE ELEVATION ·

SCALE NO. 2

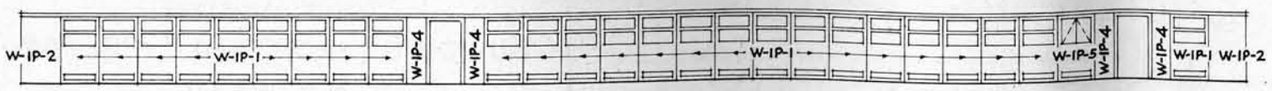
OPPOSITE SIDE SAME, REVERSED



· END ELEVATION ·

SCALE NO. 2

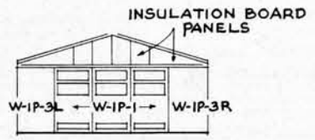
OPPOSITE END SAME.



· INTERIOR SIDE ELEVATION ·

SCALE NO. 2

OPPOSITE SIDE SAME, REVERSED



· INTERIOR END ELEVATION ·

SCALE NO. 2

OPPOSITE END SAME.

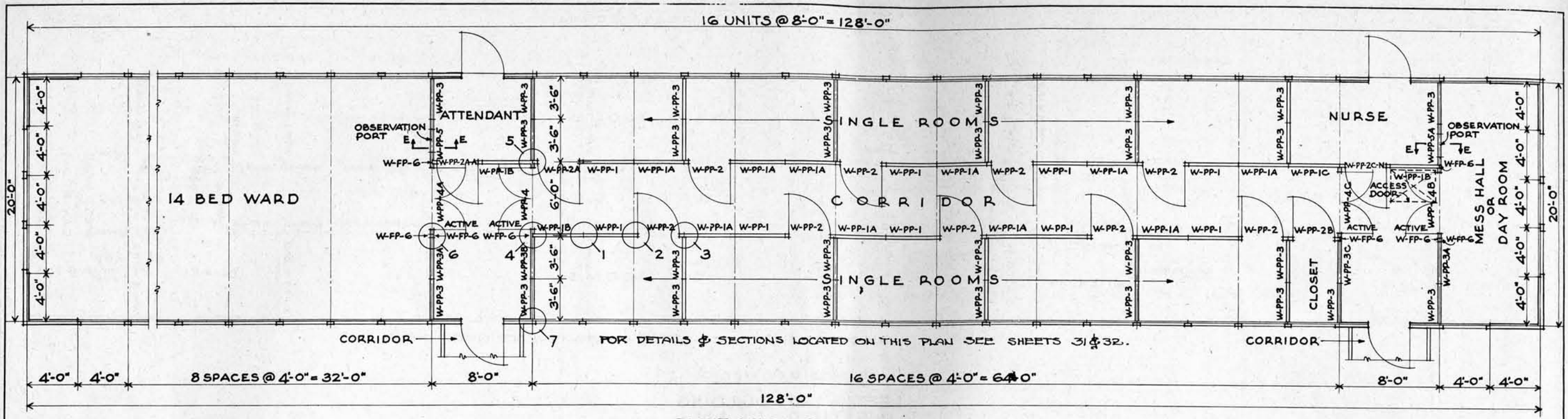
GRAPHIC SCALES

0 5' 10' SCALE NO. 1 · 0 1' 2' 3' SCALE NO. 2 · 0 6" 1' 2' 3' SCALE NO. 3 · 0 6" 1' 2' 3' SCALE NO. 4 · 0 3" 6" 9" 1' 2' SCALE NO. 5

THEATER OF OPERATIONS

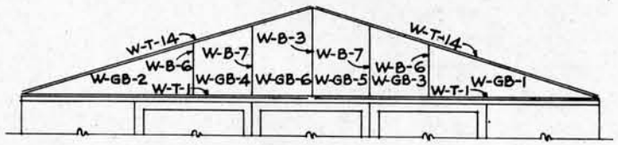
BUILDINGS - PORTABLE - PREFAB.
N. P. WARD
STEEL (ANGLE FRAME) TROPICAL

PLATE NO. 9



· RIGHT WARD BUILDING · · FLOOR PLAN ·

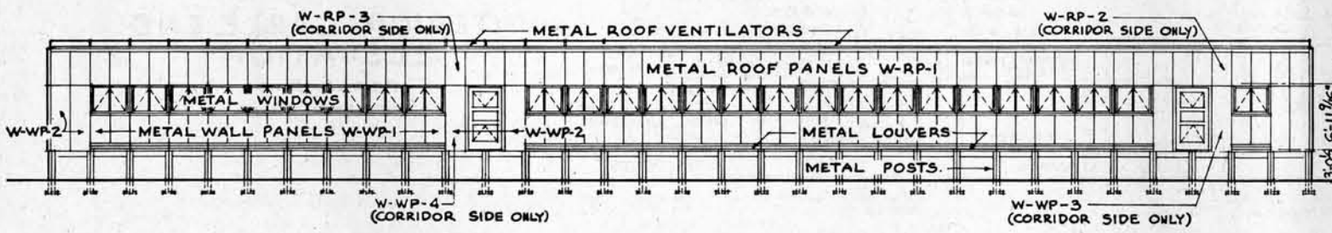
SCALE NO. 3



· INTERIOR GABLE END ELEVATION ·

SCALE NO. 4

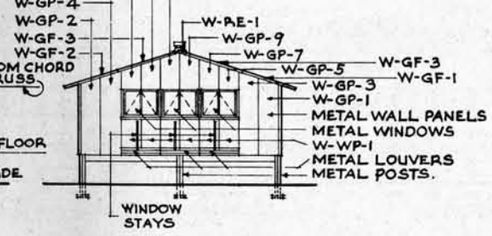
BOTH ENDS SAME



· SIDE ELEVATION ·

SCALE NO. 2

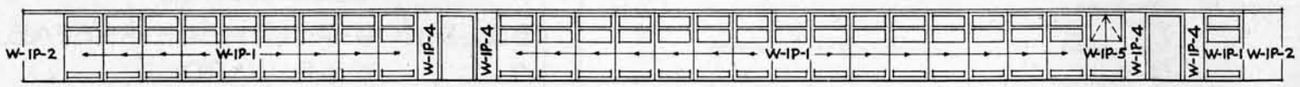
OPPOSITE SIDE SAME, REVERSED



· END ELEVATION ·

SCALE NO. 2

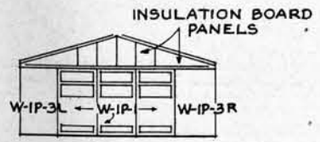
OPPOSITE END SAME



· INTERIOR SIDE ELEVATION ·

SCALE NO. 2

OPPOSITE SIDE SAME, REVERSED



· INTERIOR END ELEVATION ·

SCALE NO. 2

OPPOSITE END SAME

GRAPHIC SCALES

SCALE NO. 1 · SCALE NO. 2 · SCALE NO. 3 · SCALE NO. 4 · SCALE NO. 5

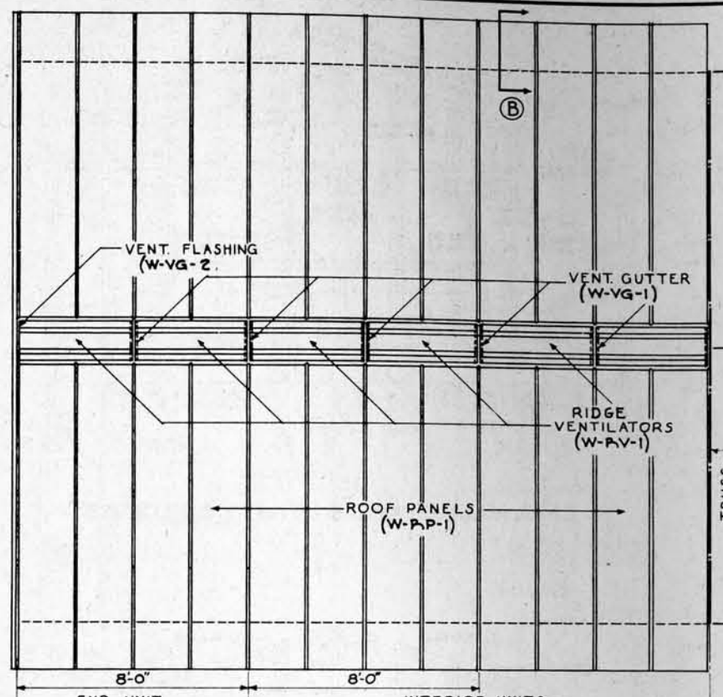
THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB.

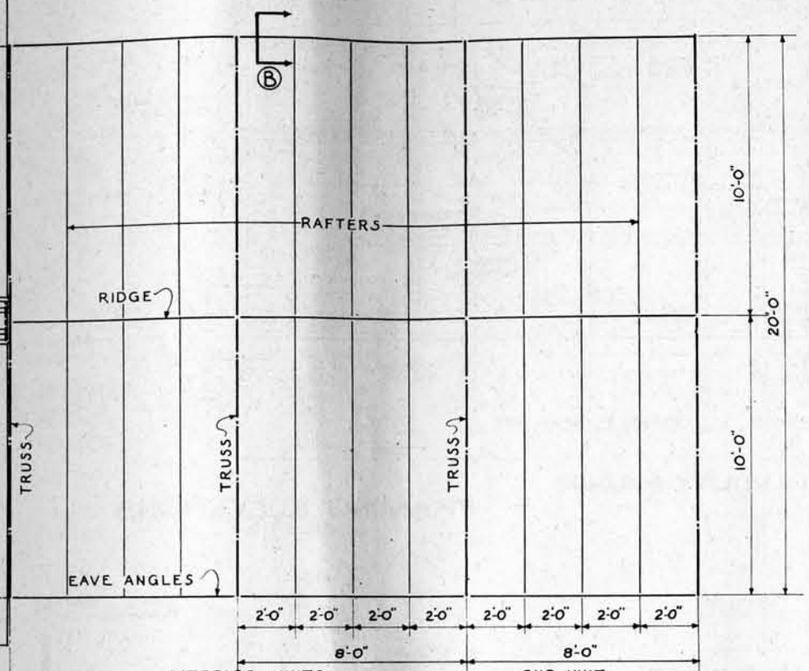
N. P. WARD

STEEL (ANGLE FRAME) TROPICAL

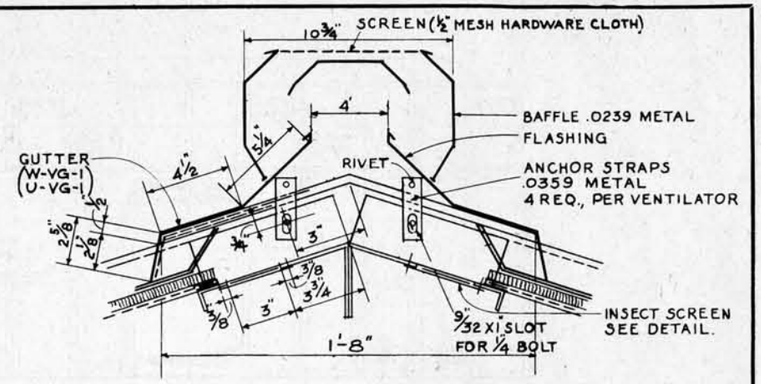
PLATE NO. 10



PART ROOF PLAN-WARD BLDGS.
(W-ZJ-6) SCALE NO 4 (W-ZJ-7)

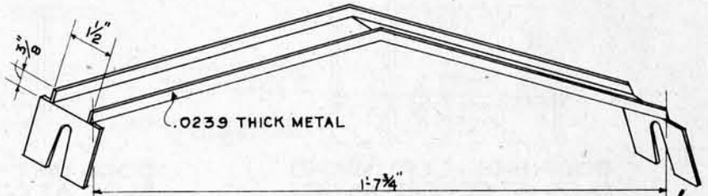


PART ROOF FRAMING PLAN-WARD & UTILITY BLDGS.
(W-ZJ-7) SCALE NO. 4 (W-ZJ-5)

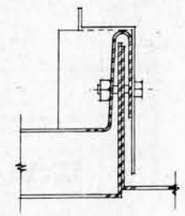


SECTION THRU RIDGE VENTILATOR (W-RV-1) (U-RV-1)
SCALE NO. 9

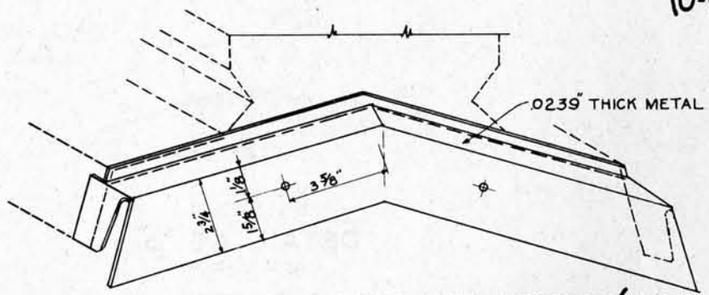
NOTE:
VENTILATORS TO BE FABRICATED IN SECTIONS 3'-10¾" LONG WITH ENDS OF EACH SECTION CLOSED



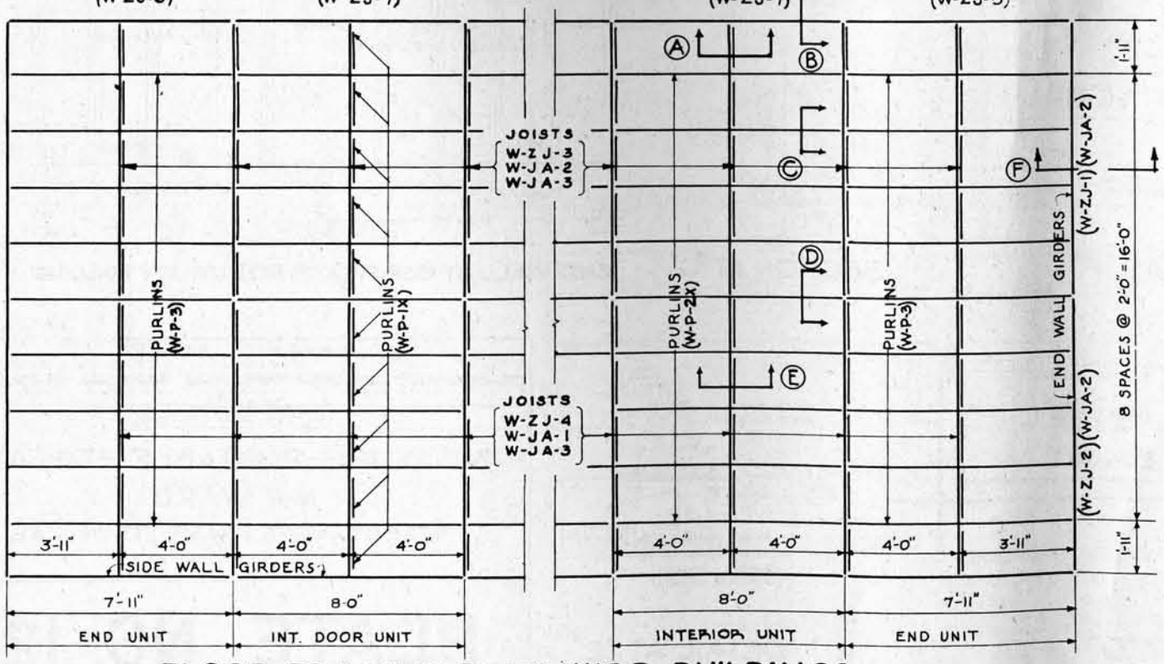
ISOMETRIC VIEW OF VENT., GUTTER (W-VG-1) (U-VG-1)



END VIEW



ISOMETRIC VIEW OF VENT., FLASHING. (W-VG-2) (U-VG-2)



FLOOR FRAMING PLAN-WARD BUILDINGS
SCALE NO. 4

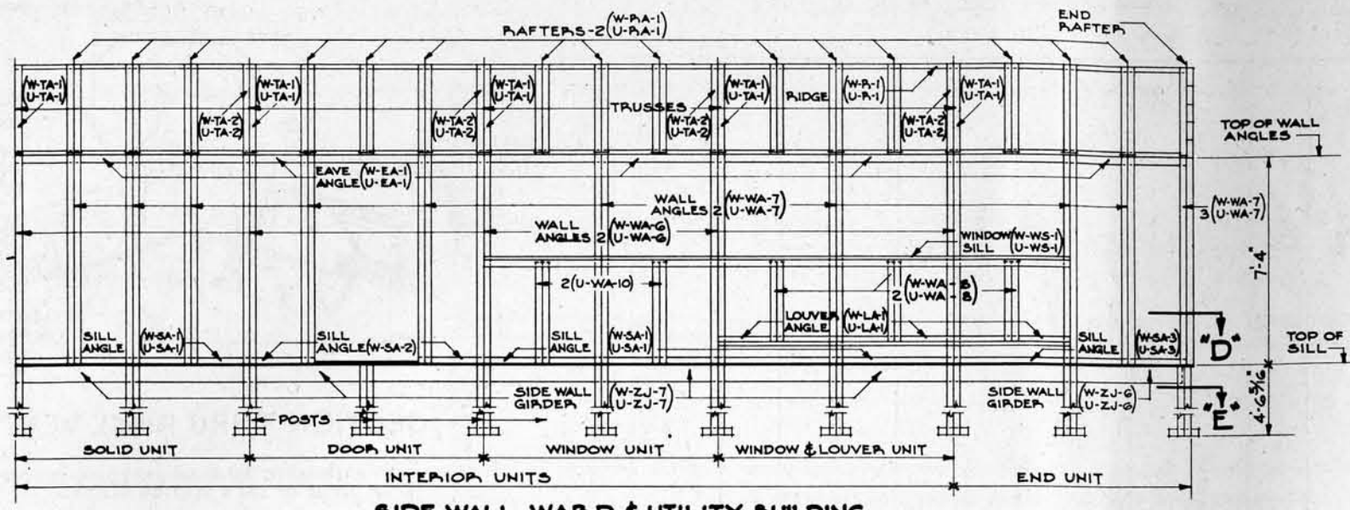
NOTE:
PART DESIGNATIONS PREFIXED BY "W" APPLY TO WARD BUILDINGS ONLY. DESIGNATIONS PREFIXED BY "U" APPLY TO UTILITY BUILDING ONLY.

GRAPHIC SCALES
SCALE NO. 4 0 1 2 3 4 5
SCALE NO. 9 0 1" 2" 3" 4" 5" 6" 1

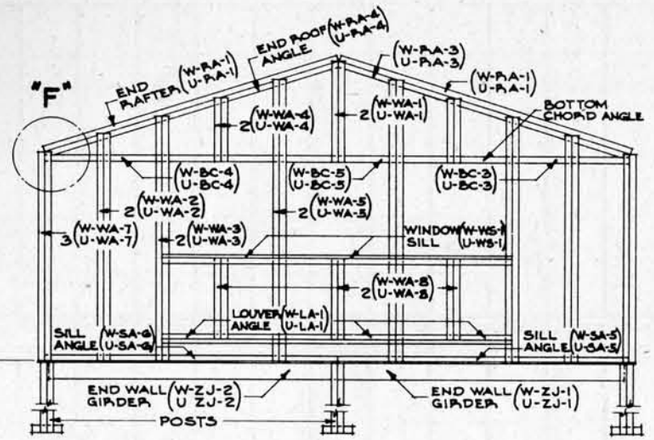
THEATER OF OPERATIONS

BUILDINGS-PORTABLE-PREFAB.
N. P. WARD
STEEL (ANGLE FRAME) TROPICAL

PLATE NO. 11



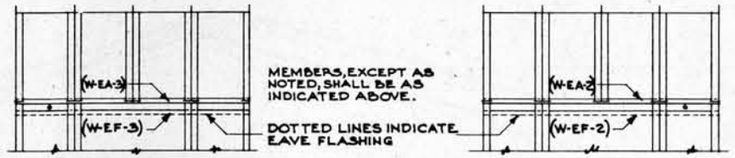
SIDE WALL - WARD & UTILITY BUILDING



END WALL - WARD & UTILITY BUILDINGS

FRAMING ELEVATIONS

SCALE NO. 4

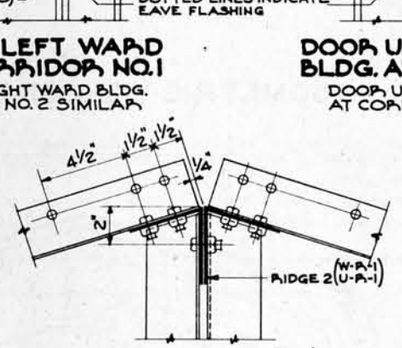


DOOR UNIT - LEFT WARD BLDG. AT CORRIDOR NO. 1

DOOR UNIT - RIGHT WARD BLDG. AT CORRIDOR NO. 2 SIMILAR

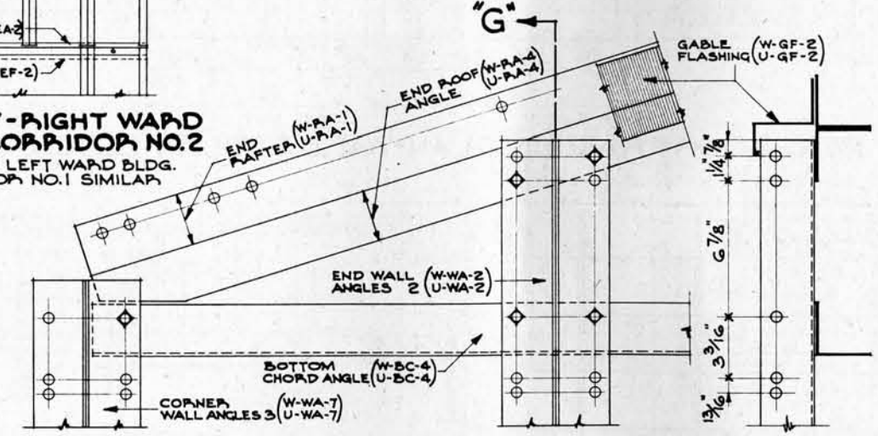
DOOR UNIT - RIGHT WARD BLDG. AT CORRIDOR NO. 2

DOOR UNIT - LEFT WARD BLDG. AT CORRIDOR NO. 1 SIMILAR



DETAIL AT "B"

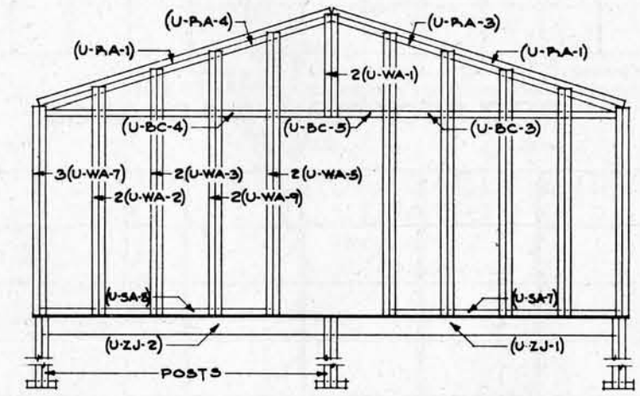
SCALE: NO. 9



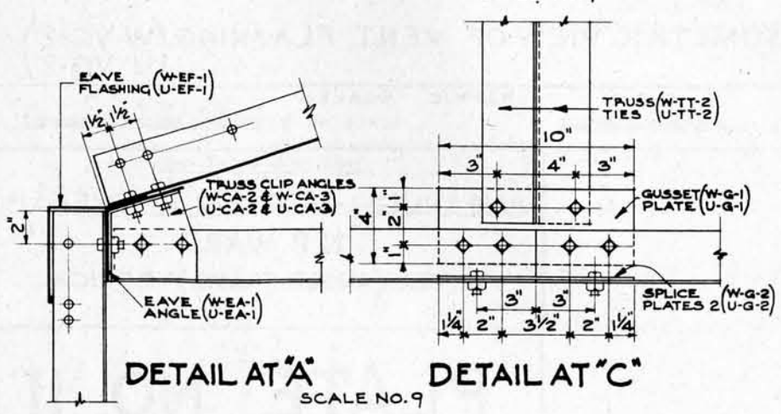
DETAIL AT "F"

SCALE NO. 9

SECTION AT "G"



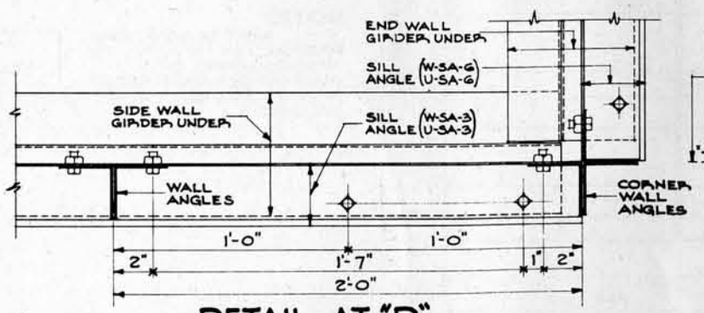
END WALL AT CORRIDOR NO. 1 - UTILITY BUILDING



DETAIL AT "A"

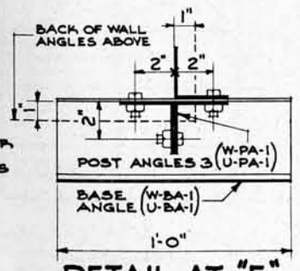
SCALE NO. 9

DETAIL AT "C"



DETAIL AT "D"

SCALE NO. 9



DETAIL AT "E"

GRAPHIC SCALES

SCALE NO. 9 · SCALE NO. 3 · SCALE NO. 4 · SCALE NO. 8

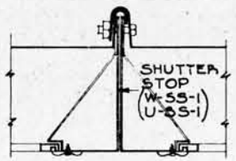
THEATER OF OPERATIONS

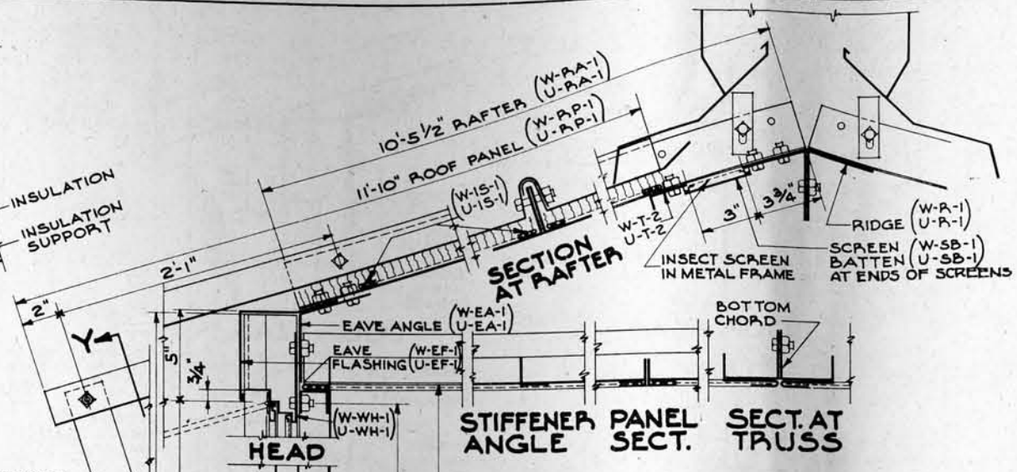
BUILDINGS - PORTABLE - PREFAB.

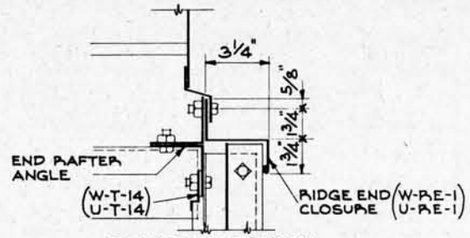
N. P. WARD

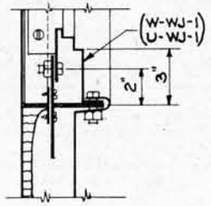
STEEL (ANGLE FRAME) TROPICAL

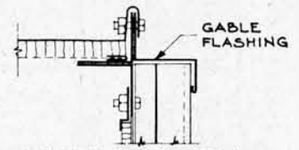
PLATE NO. 12

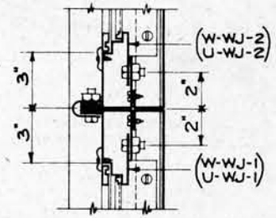


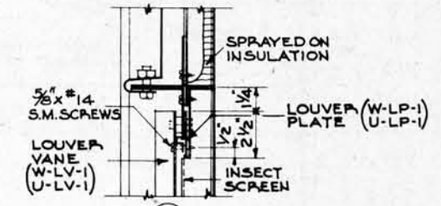












NOTES

PART DESIGNATIONS PREFIXED BY LETTER "W" APPLY TO PARTS OF WARD BUILDINGS ONLY. PART DESIGNATIONS PREFIXED BY LETTER "U" APPLY TO PARTS OF UTILITY BUILDING ONLY.

ALL BOLTS NOT OTHERWISE NOTED TOBE 3/8" Ø X 3/4" ALL SCREWS NOT OTHERWISE NOTED TOBE #14 X 1/2" PHILLIPS BINDING HEAD S.M. (TYPE A)

GRAPHIC SCALES

SCALE NO. 9 | SCALE NO. 3 | SCALE NO. 4 | SCALE N. 5

THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB. N.P. WARD

STEEL (ANGLE FRAME) TROPICAL

PLATE NO. 13

(A) SECTION THRU JOIST SHOWING EXTERIOR POST

(B) SIDE WALL SECTION

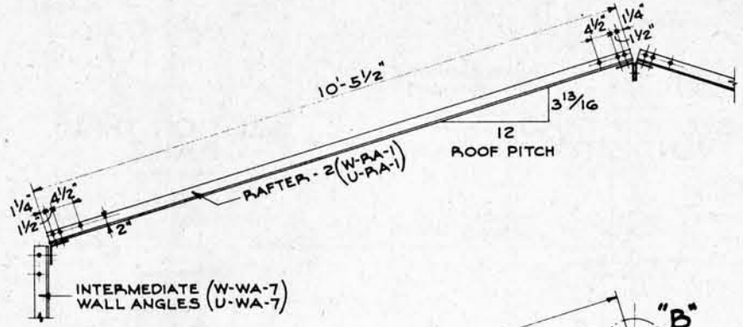
(C) SECTION THRU PURLIN

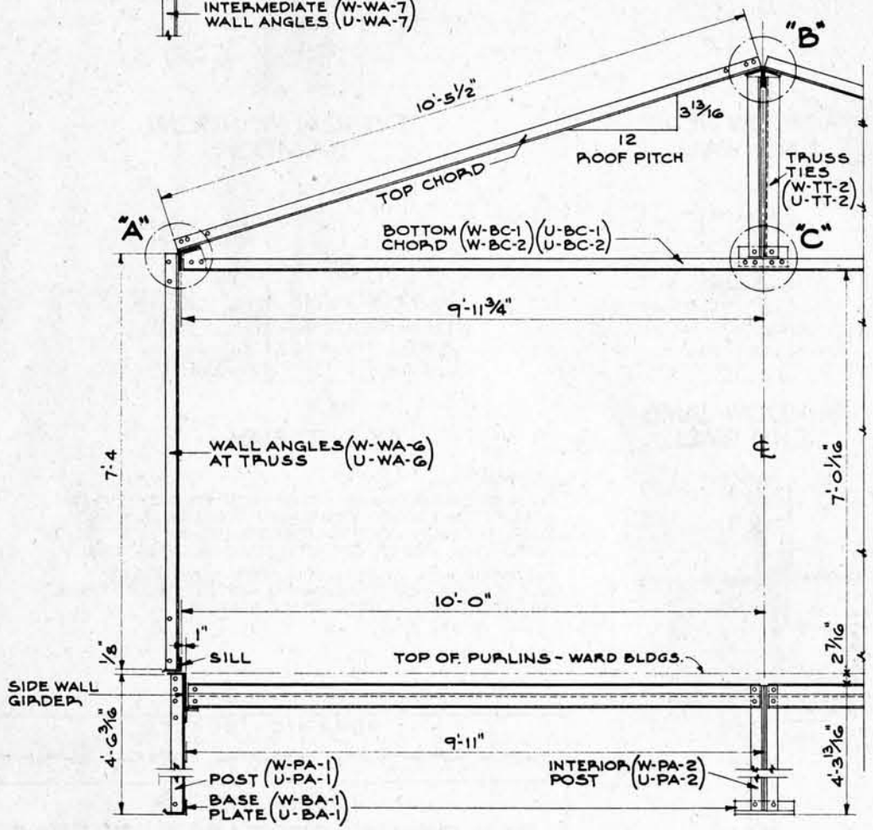
(D) SECTION AT ℄

(E) SECTION THRU JOIST SHOWING INTERIOR POST

(F) END WALL SECTION

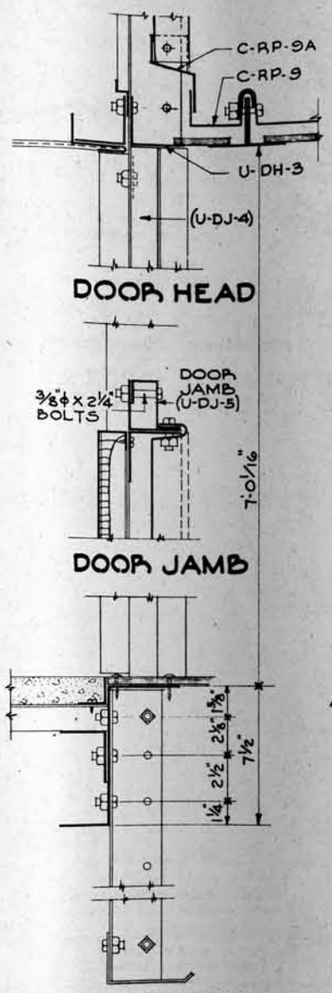
SCALE NO. 9



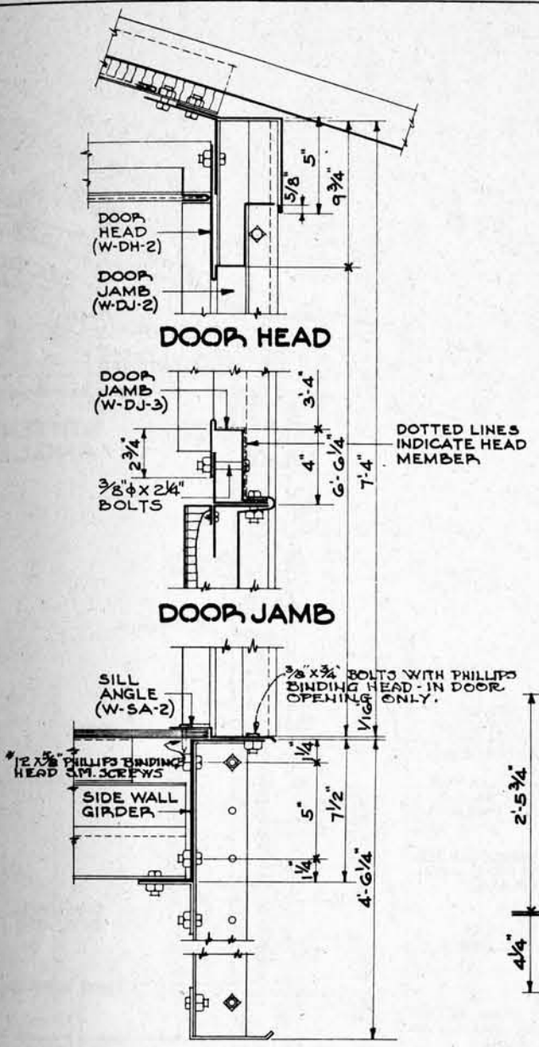


HALF CROSS SECTION OF FRAME
SCALE NO. 5

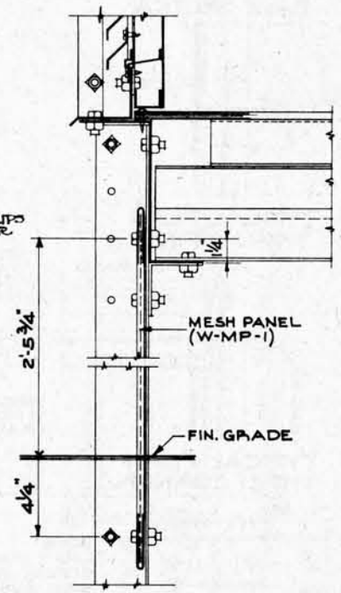
NOTE:
FOR DETAILS AT "A" "B" & "C", SEE FILE NO. T.O. 235.40 SHEET NO. 2.1



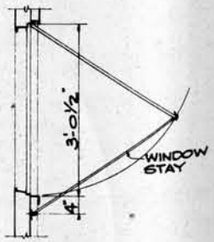
DOOR HEAD
DOOR JAMB
SECTION THRU OPENING IN END WALL-UTILITY BUILDING
SCALE NO. 9



DOOR HEAD
DOOR JAMB
SECTION THRU DOOR IN SIDE WALL-WARD BUILDINGS
SCALE NO. 9



WALL SECT. IN EXERCISE COURT-WARD BUILDINGS
SCALE NO. 9



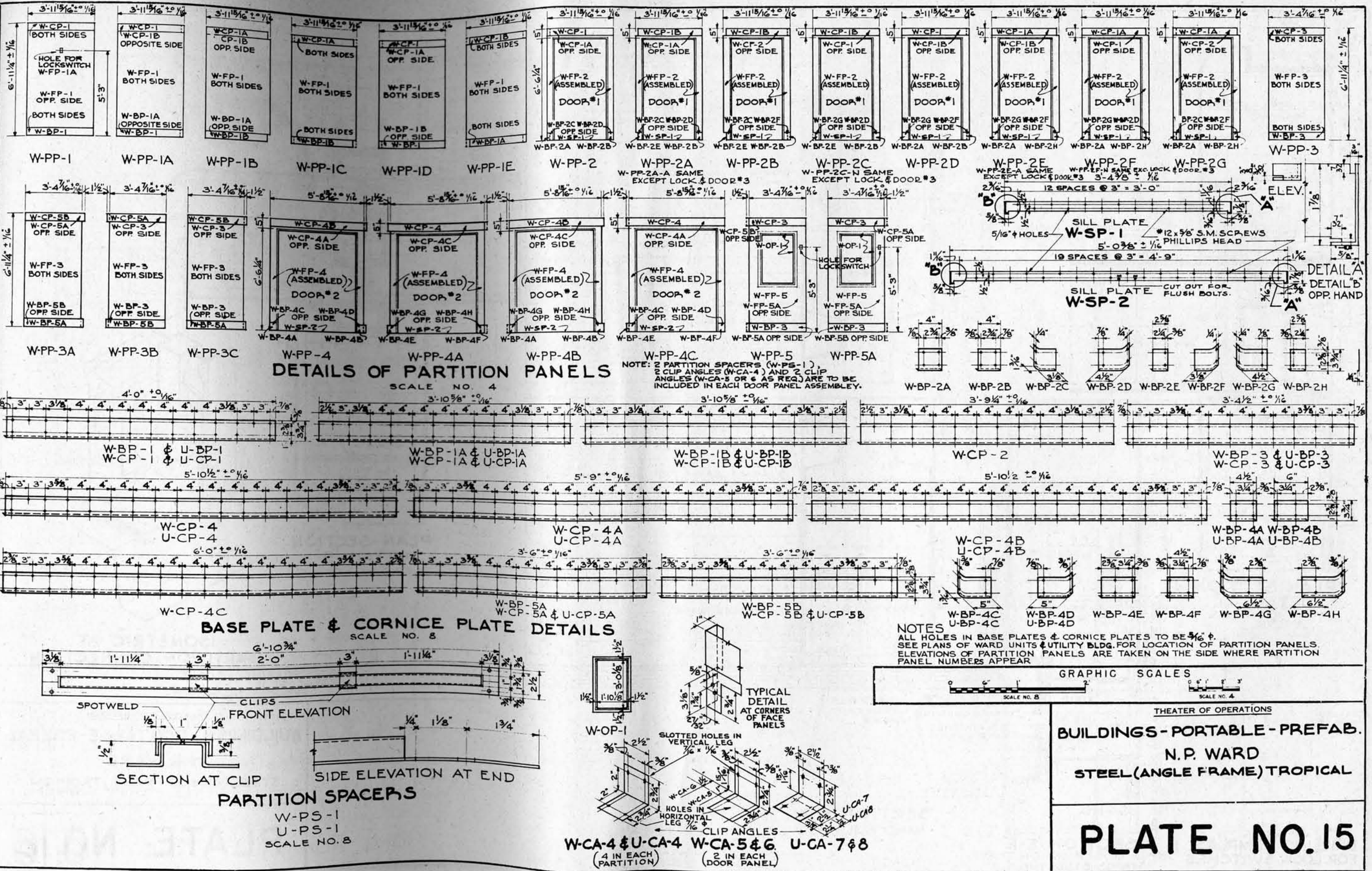
SECTION END WALL WINDOW SHOWING WINDOW STAY
SCALE NO. 5

GRAPHIC SCALES
SCALE NO. 8 · SCALE NO. 3 · SCALE NO. 4 · SCALE NO. 5

THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB.
N. P. WARD
STEEL (ANGLE FRAME) TROPICAL

PLATE NO. 14



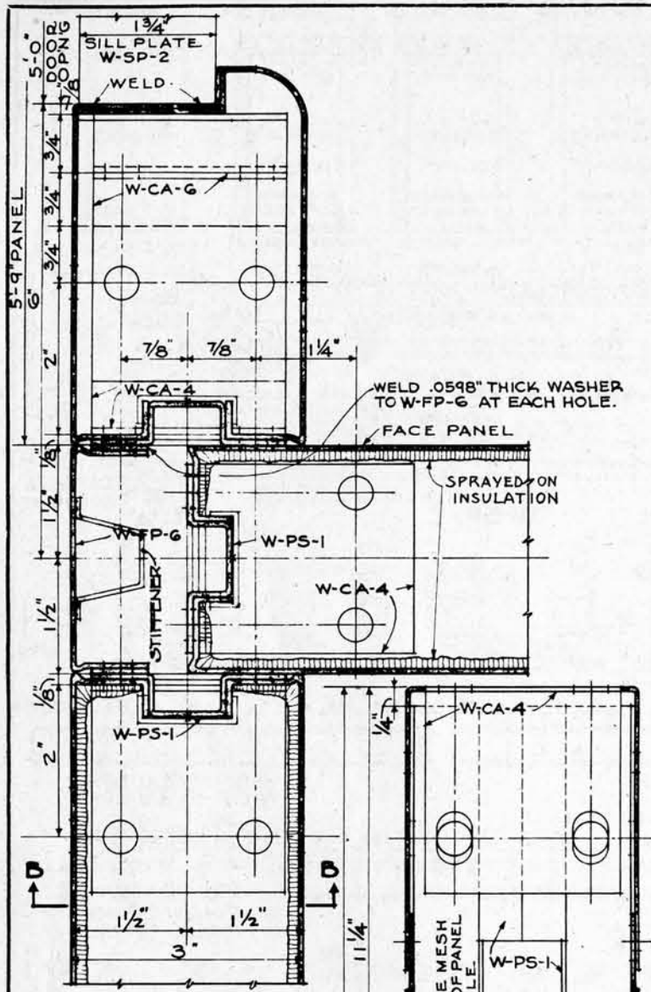
THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB.

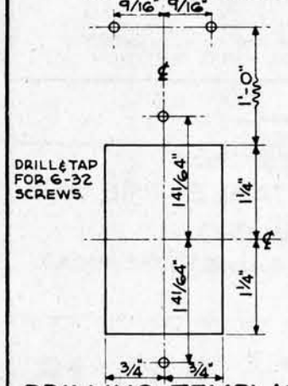
N.P. WARD

STEEL (ANGLE FRAME) TROPICAL

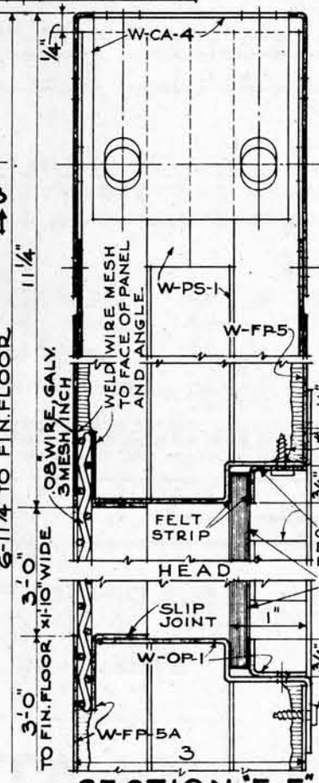
PLATE NO. 15



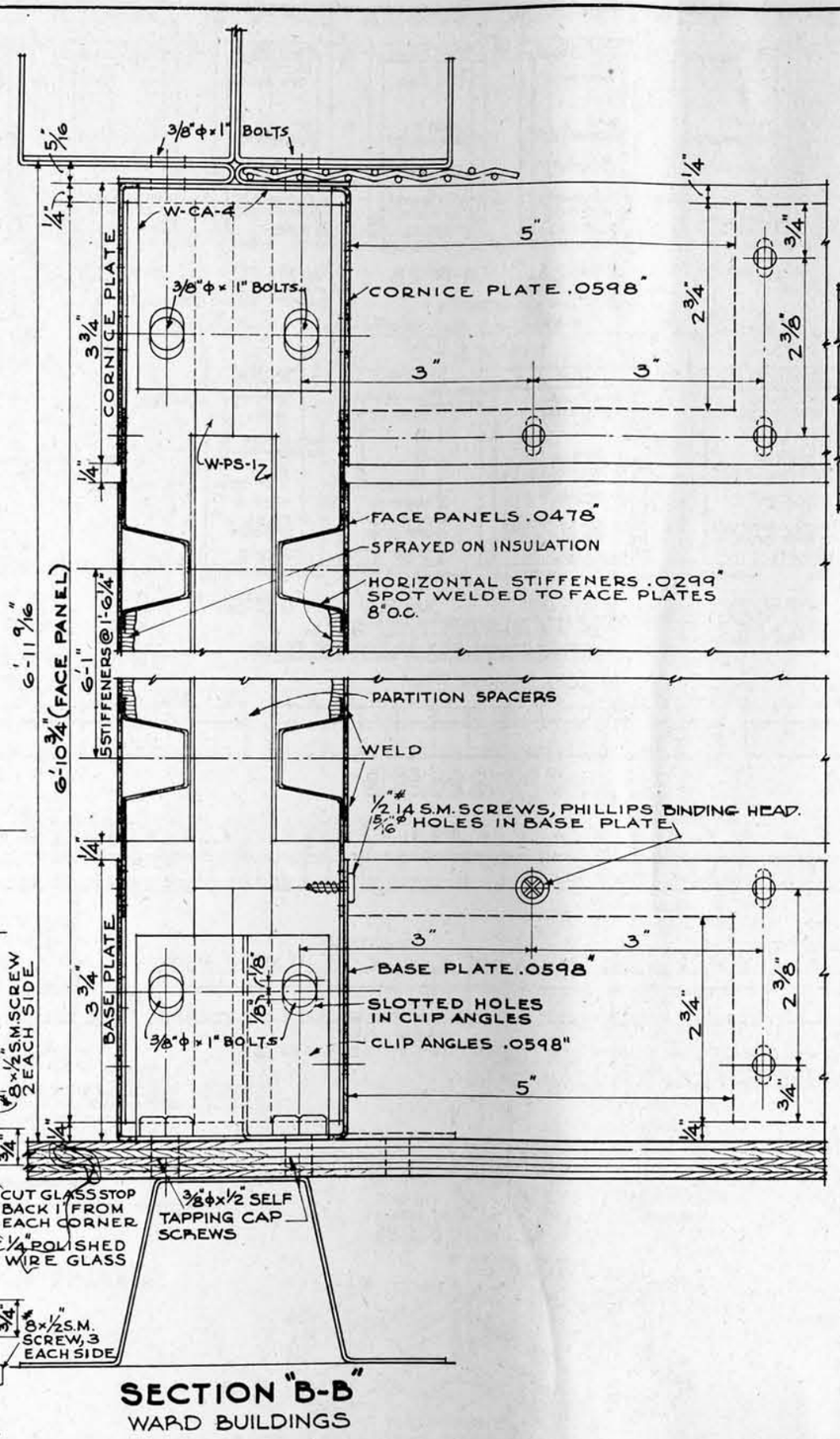
PLAN SECTION
DETAIL "4"
WARD BUILDINGS



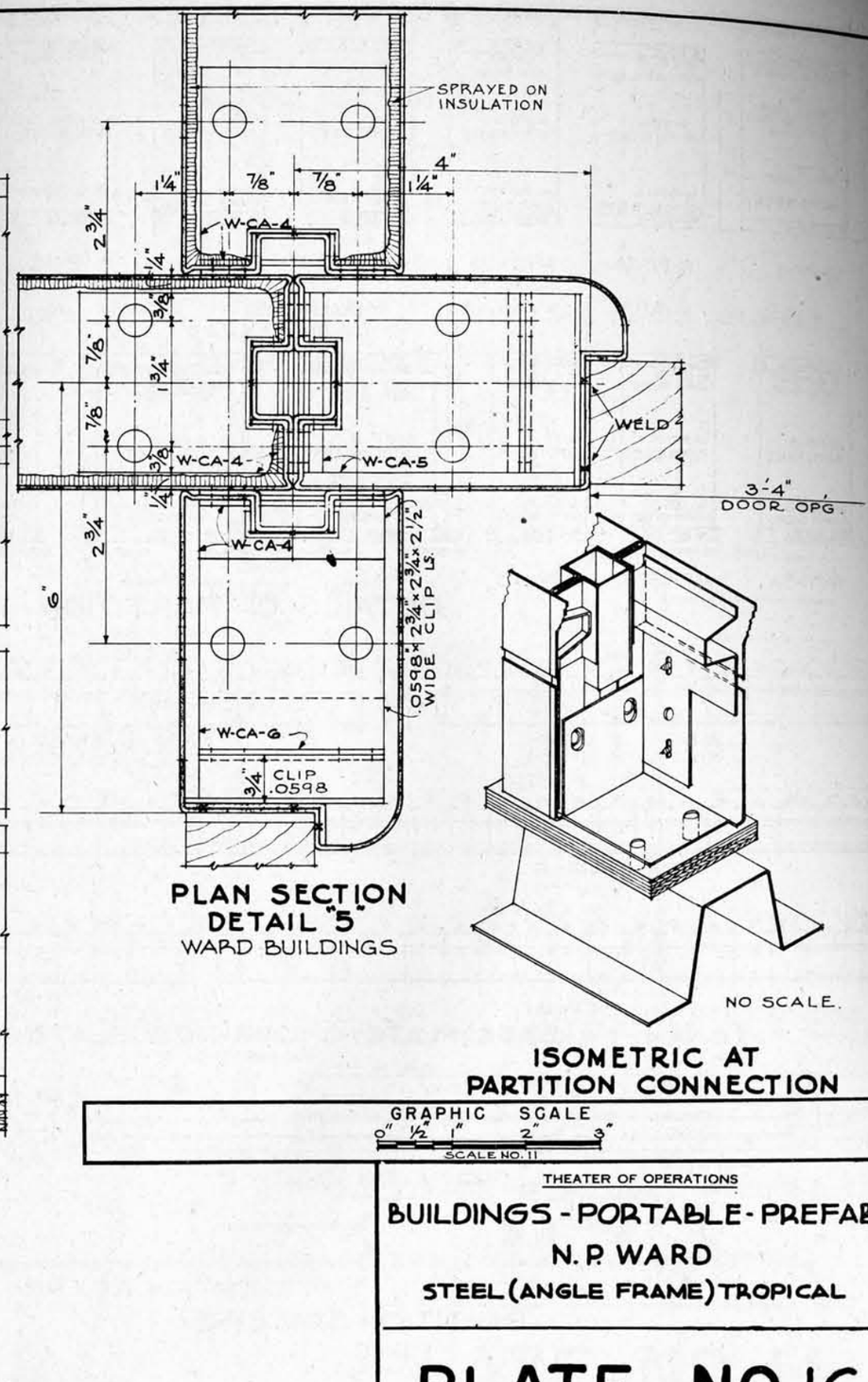
DRILLING TEMPLATE
FOR LOCK SWITCHES
FULL-SIZE



SECTION "E-E"
THRU OBSERVATION PORT
WARD BUILDINGS



SECTION "B-B"
WARD BUILDINGS



PLAN SECTION
DETAIL "5"
WARD BUILDINGS

NO SCALE.

ISOMETRIC AT
PARTITION CONNECTION

GRAPHIC SCALE
0" ½" 1" 2" 3"
SCALE NO. 11

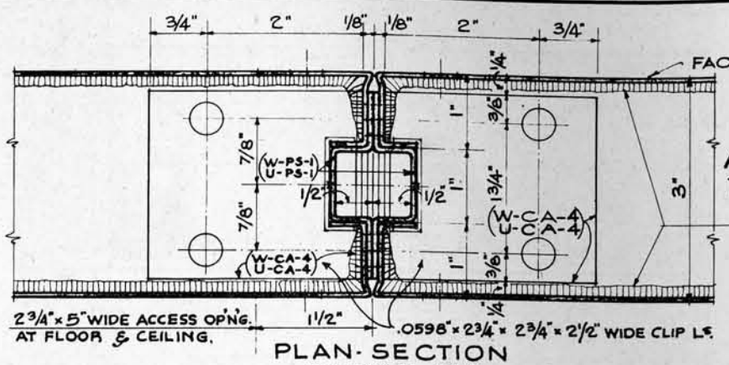
THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB.

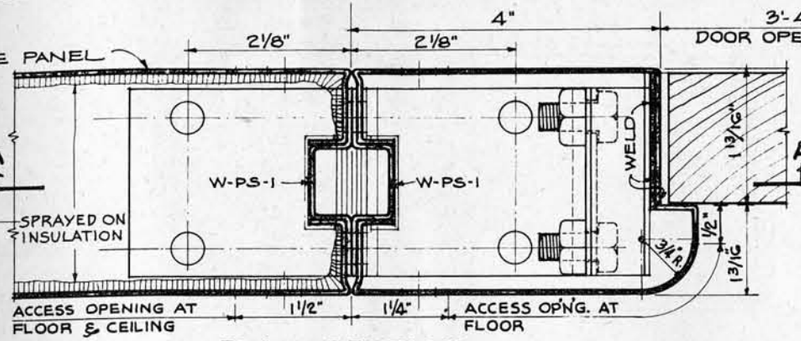
N. P. WARD

STEEL (ANGLE FRAME) TROPICAL

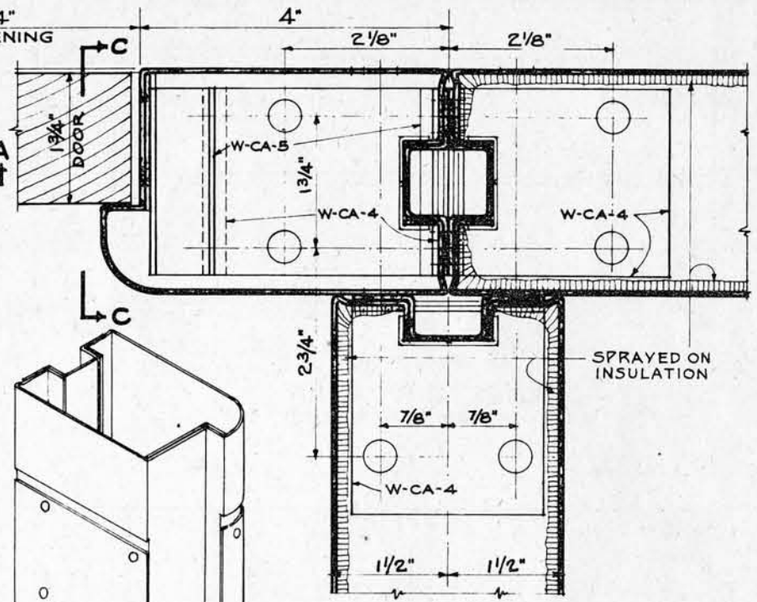
PLATE NO. 16



PLAN-SECTION
DETAIL "1"
WARD & UTILITY BUILDINGS

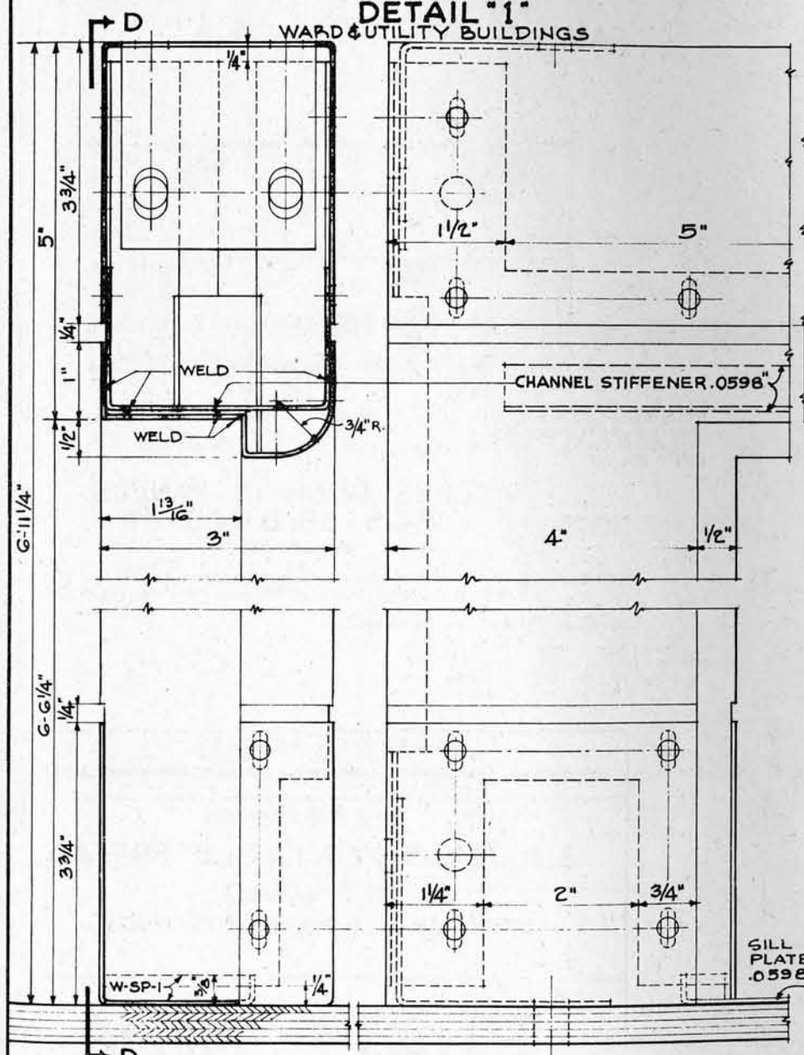


PLAN-SECTION
DETAIL "2"
WARD BUILDINGS

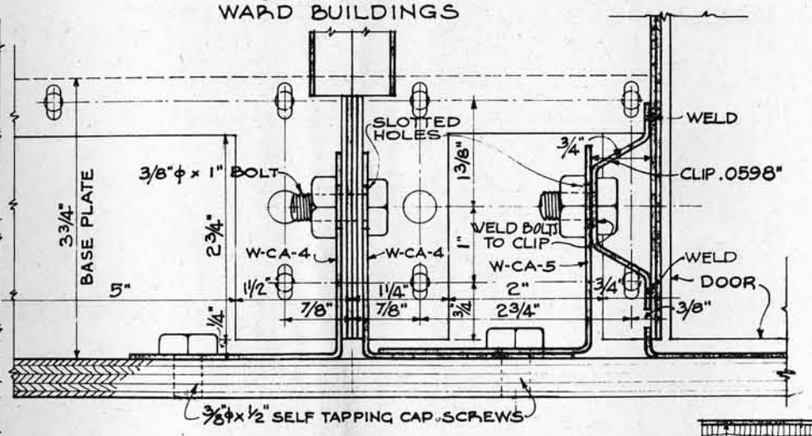


PLAN-SECTION
DETAIL "3"
WARD BUILDINGS

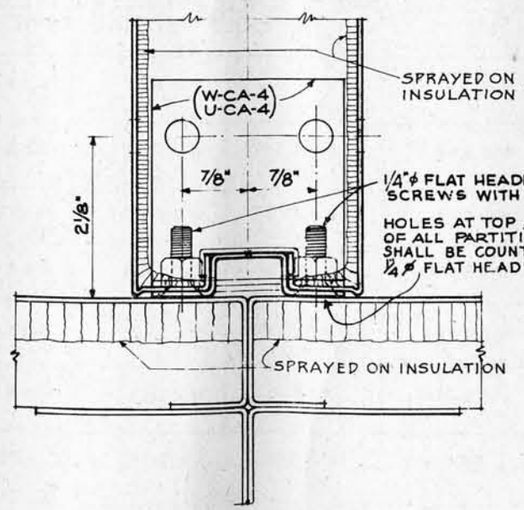
ISOMETRIC AT DOOR JAMB.
(NO SCALE)



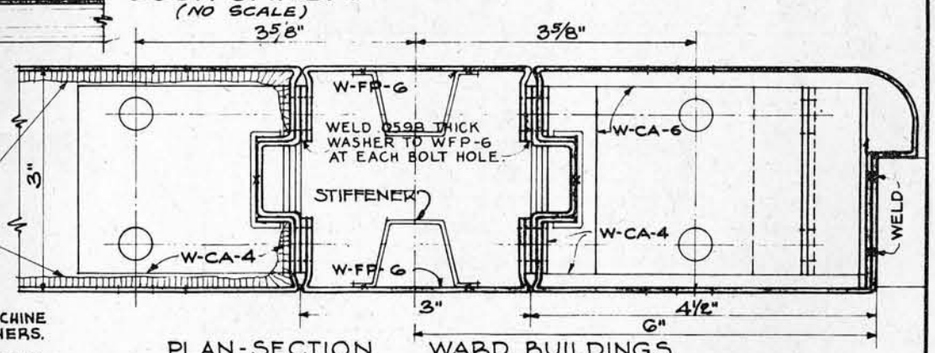
SECTION "C-C" ELEVATION "D-D"



SECTION "A-A"



PLAN-SECTION
DETAIL "7"
WARD & UTILITY BUILDINGS



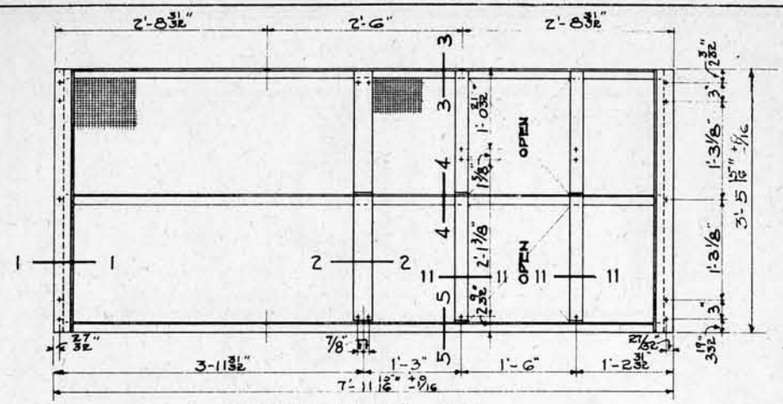
PLAN-SECTION WARD BUILDINGS
DETAIL "6"

GRAPHIC SCALES
0 1/2" 1" 2" 3"
SCALE NO. 11

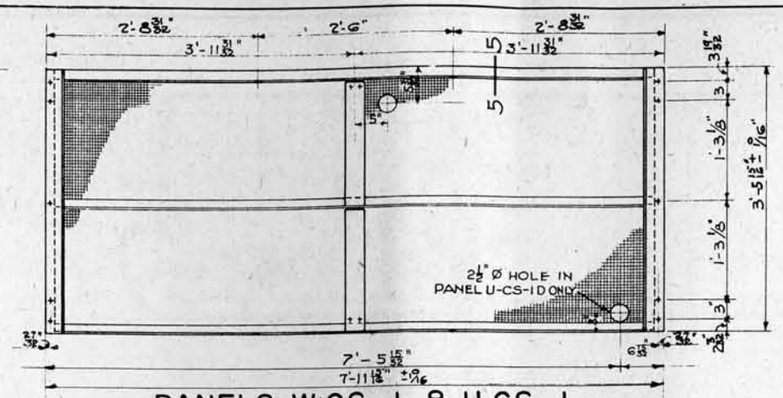
THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB.
N. P. WARD
STEEL (ANGLE FRAME) TROPICAL

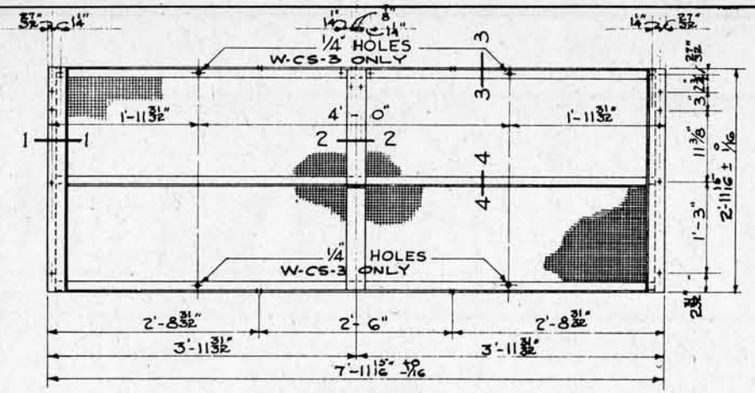
PLATE NO. 17



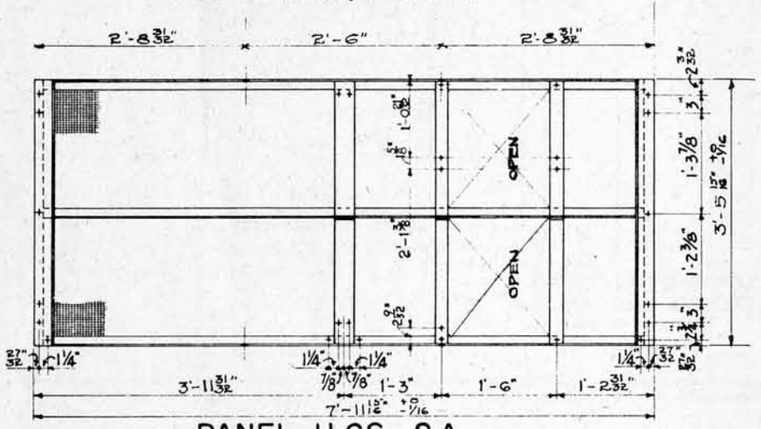
PANEL U-CS-1A
U-CS-1B SAME, OPP. HAND



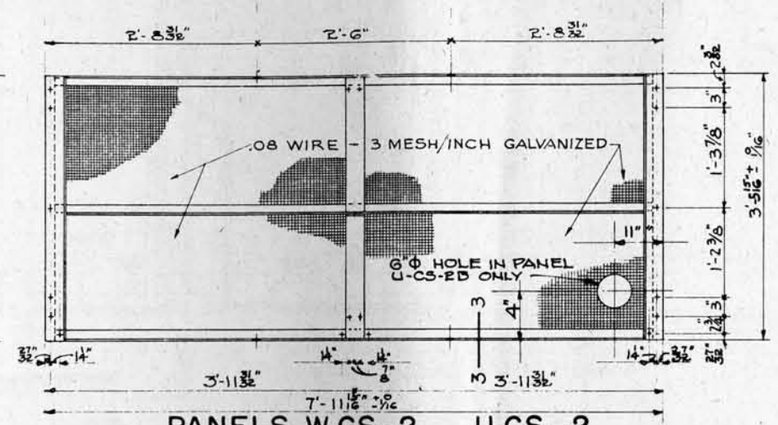
PANELS W-CS-1 & U-CS-1
PANELS U-CS-1C & 1D SAME EXCEPT AS NOTED



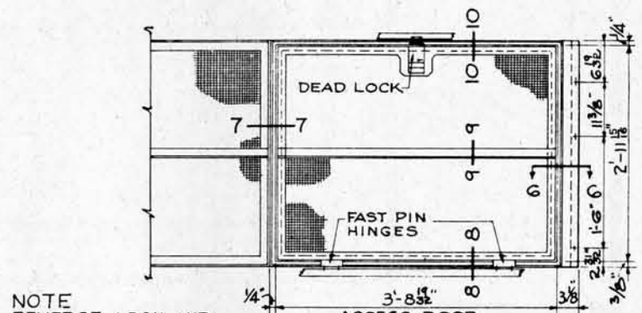
PANELS W-CS-3 & U-CS-3



PANEL U-CS-2A
U-CS-2C OPP. HAND
SCALE NO. 7



PANELS W-CS-2 U-CS-2
PANEL U-CS-2B SAME EXCEPT AS NOTED.
W-CS-2A R/L & U-CS-2D LOCK STRIKE ADDED
SCALE NO. 7



NOTE
REVERSE LOCK AND HINGES FOR ACCESS DOOR IN PANEL WCS-3L LEFT WARD

ACCESS DOOR IN PANELS
W-CS-3R & U-CS-3R
SCALE NO. 7

U-CS-1B	U-CS-1	U-CS-1C	U-CS-1
U-CS-2A	U-CS-2	U-CS-2B	U-CS-2D ACCESS DOOR
U-CS-3	U-CS-3	U-CS-3	U-CS-3R
U-CS-3	U-CS-3	U-CS-3	U-CS-3
U-CS-2C	U-CS-2C	U-CS-2	U-CS-2
U-CS-1A	U-CS-1A	U-CS-1	U-CS-1D

20'-0"
32'-0"

LAYOUT OF CEILING PANELS, UTILITY BUILDING
NO SCALE

W-CS-1	W-CS-1	W-CS-1	W-CS-1
W-CS-2	W-CS-2	W-CS-2AR/L ACCESS DOOR	W-CS-2
W-CS-3	W-CS-3	W-CS-3R	W-CS-3
W-CS-3	W-CS-3	W-CS-3	W-CS-3
W-CS-2	W-CS-2	W-CS-2	W-CS-2
W-CS-1	W-CS-1	W-CS-1	W-CS-1

1 BAY | 13 BAYS | 1 BAY | 1 BAY
20'-0"
128'-0"

LAYOUT OF CEILING PANELS, RIGHT WARD
LEFT WARD SIMILAR, REVERSED
NO SCALE

REVISION ① WIDTH DIMENSION PANELS W-CS-1, U-CS-1, W-CS-2 & U-CS-2 CHANGED FROM 3'-11 15/16" TO 3'-5 15/16"

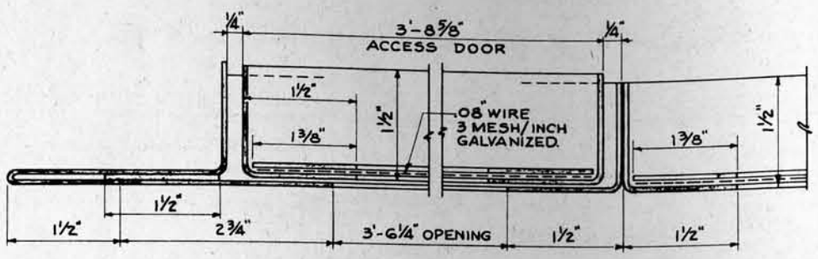
REVISION ② GENERAL REVISIONS

GRAPHIC SCALES
SCALE NO. 1 | SCALE NO. 2 | SCALE NO. 3 | SCALE NO. 7

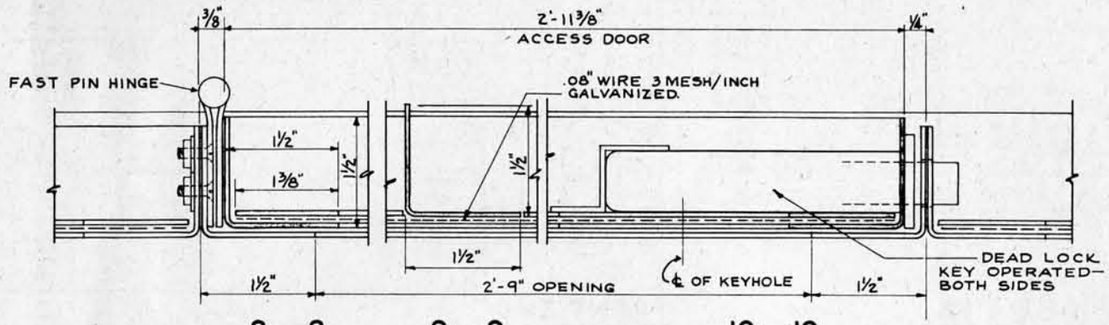
THEATER OF OPERATIONS

BUILDINGS-PORTABLE-PREFAB.
N.P. WARD
STEEL (ANGLE FRAME) TROPICAL

PLATE NO. 18



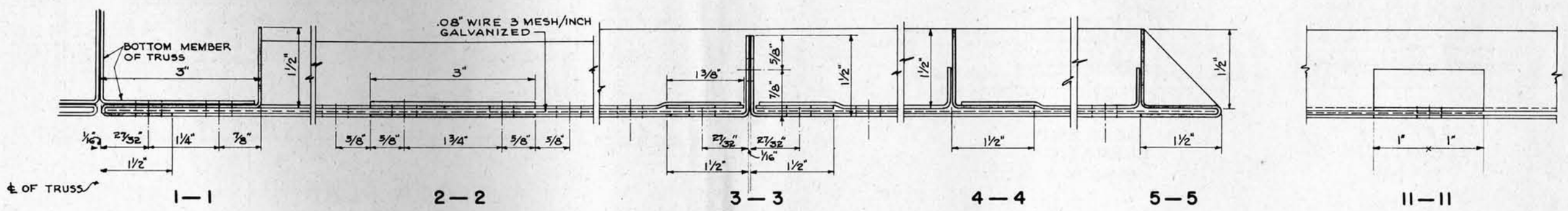
6—6 7—7



8—8 9—9 10—10

SECTIONAL DETAILS OF ACCESS DOOR MEMBERS

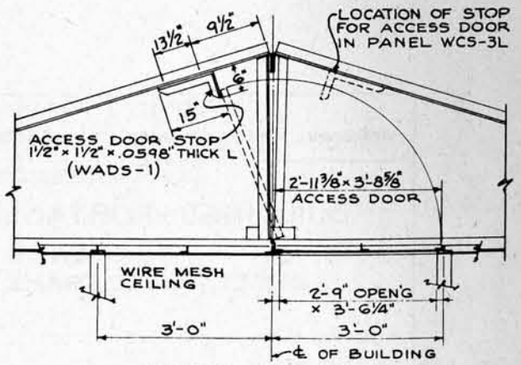
SCALE NO. 11



1—1 2—2 3—3 4—4 5—5 11—11

SECTIONAL DETAILS OF CEILING PANEL MEMBERS

SCALE NO. 11



DETAIL OF STOP
FOR ACCESS DOOR IN PANEL W-CS-3R
SCALE NO. 5

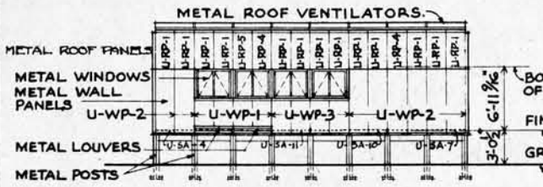
NOTE: ALL MEMBERS .0598" THICK.
ALL BOLT HOLES 7/16" DIAMETER UNLESS OTHERWISE NOTED.
WELD ALL CONNECTIONS
ALL BOLTS COVERED BY PARTITION PANELS SHALL BE 3/8"Ø X 1" LONG
ALL BOLTS NOT COVERED BY PARTITION PANELS SHALL BE 3/8"Ø X 3/4" LONG WITH PHILLIPS BINDING HEAD.

GRAPHIC SCALES
0 3" 6" 9" 1' 2'
SCALE NO. 5
0 1/4" 1/2" 3/4" 1" 2" 3"
SCALE NO. 11

THEATER OF OPERATIONS

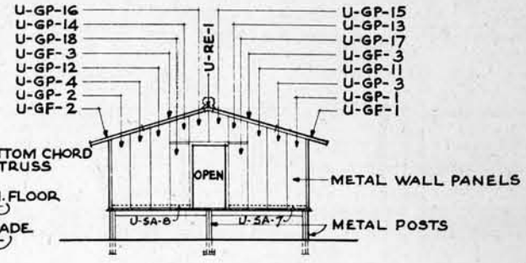
BUILDINGS - PORTABLE - PREFAB.
N. P. WARD
STEEL (ANGLE FRAME) TROPICAL

PLATE NO. 19



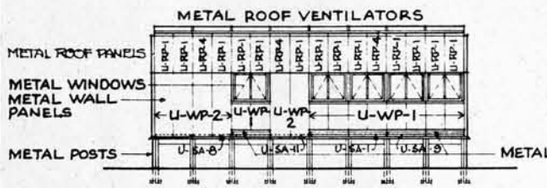
RIGHT SIDE ELEVATION

SCALE NO. 2



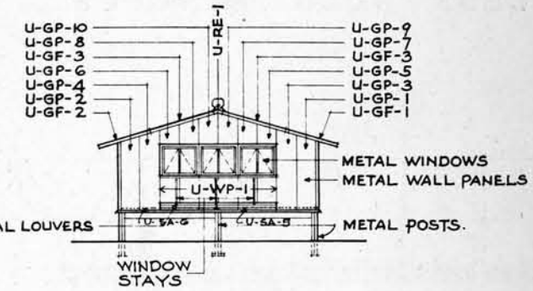
FRONT END ELEVATION

SCALE NO. 2



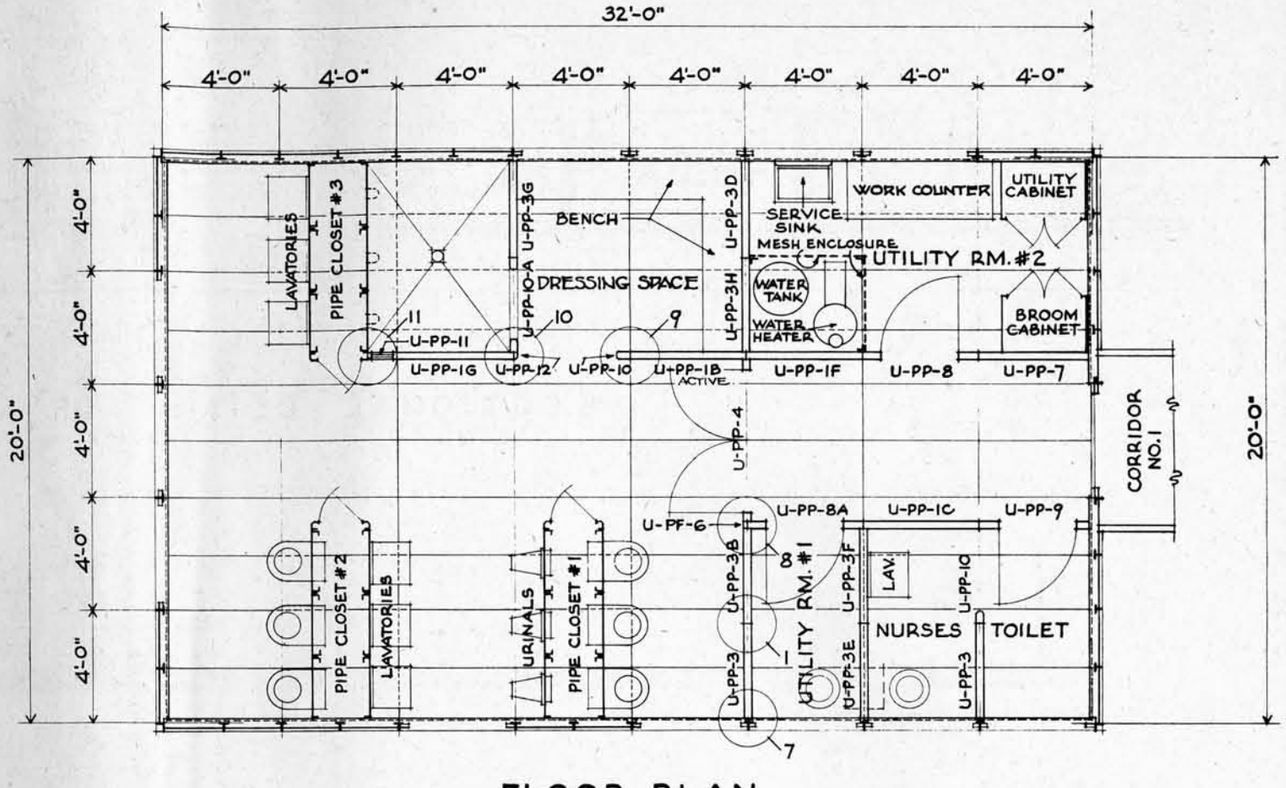
LEFT SIDE ELEVATION

SCALE NO. 2



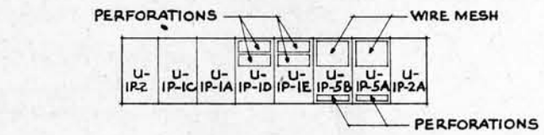
REAR END ELEVATION

SCALE NO. 2



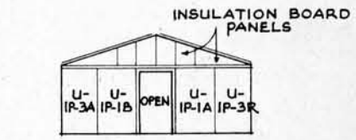
FLOOR PLAN

SCALE NO. 4



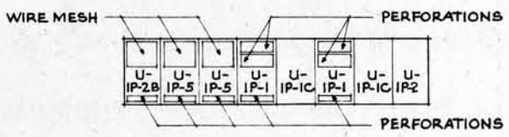
INTERIOR RIGHT SIDE WALL PANELS

SCALE NO. 2



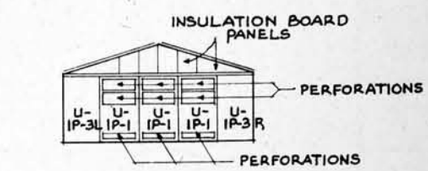
INTERIOR FRONT END WALL PANELS

SCALE NO. 2



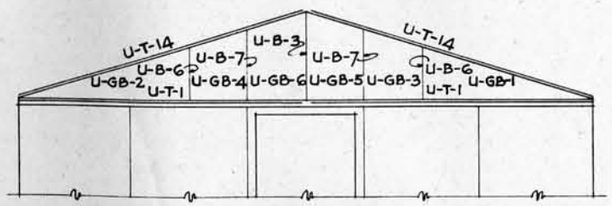
INTERIOR LEFT SIDE WALL PANELS

SCALE NO. 2



INTERIOR REAR END WALL PANELS

SCALE NO. 2



INTERIOR GABLE END ELEVATION

SCALE NO. 4

BOTH ENDS SAME

GRAPHIC SCALES

SCALE NO. 1 · SCALE NO. 2 · SCALE NO. 3 · SCALE NO. 4 · SCALE NO. 5

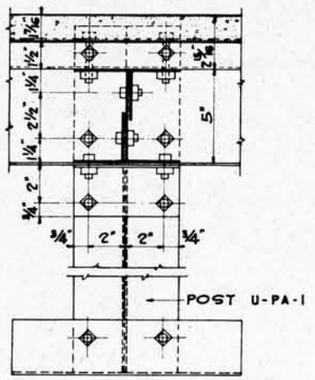
THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB.

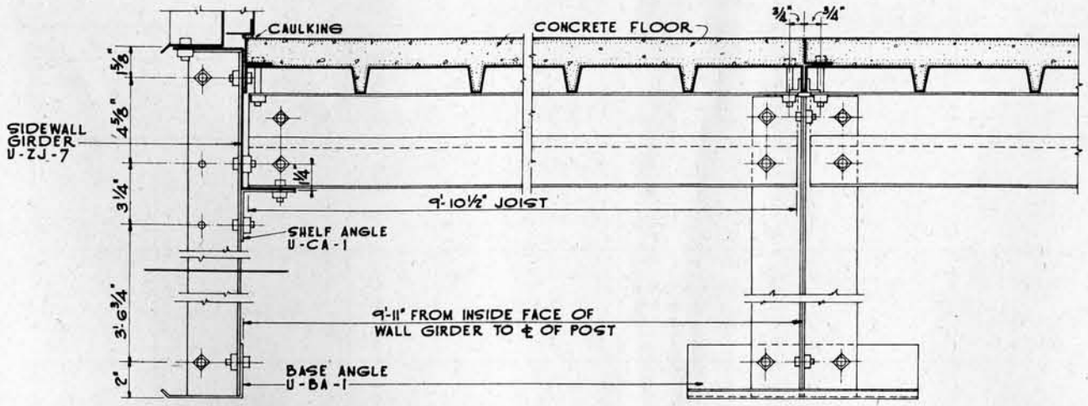
N. P. WARD

STEEL (ANGLE FRAME) TROPICAL

PLATE NO 20

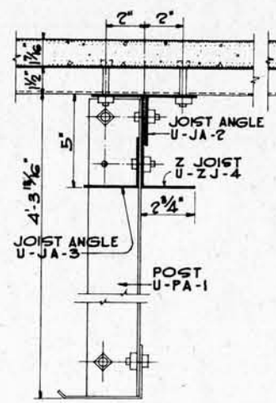


Ⓐ
SECTION THRU JOIST SHOWING EXTERIOR POST

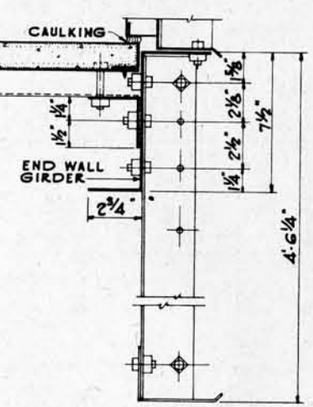


Ⓑ
SIDE WALL SECTION

Ⓒ
SECTION AT ℄

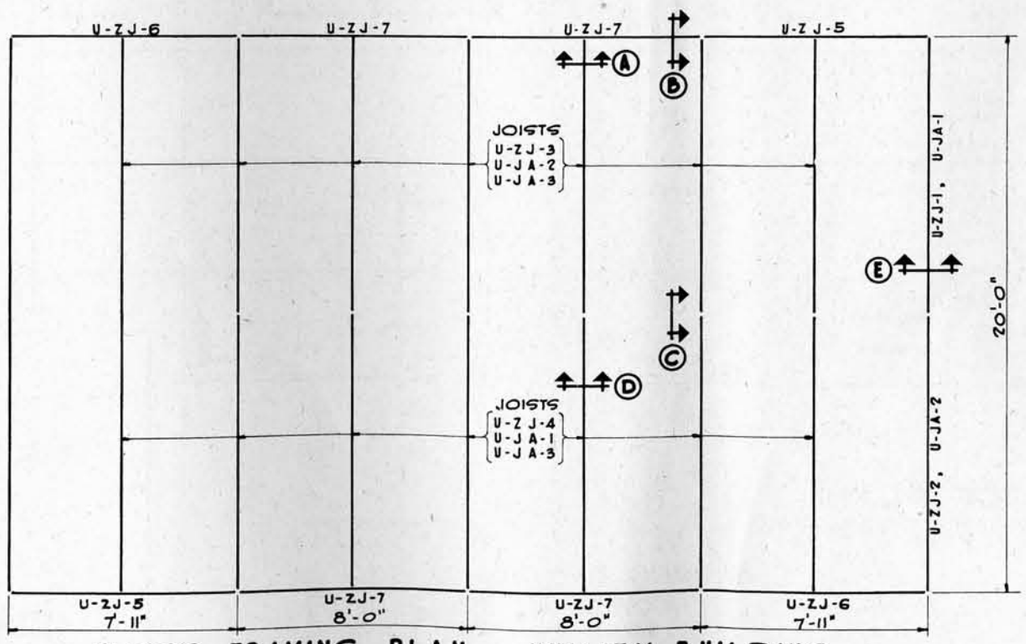


Ⓓ
SECTION THRU JOIST SHOWING INTERIOR POST



Ⓔ
END WALL SECTION

DETAILS OF FLOOR CONSTRUCTION - UTILITY BUILDING
SCALE NO. 9



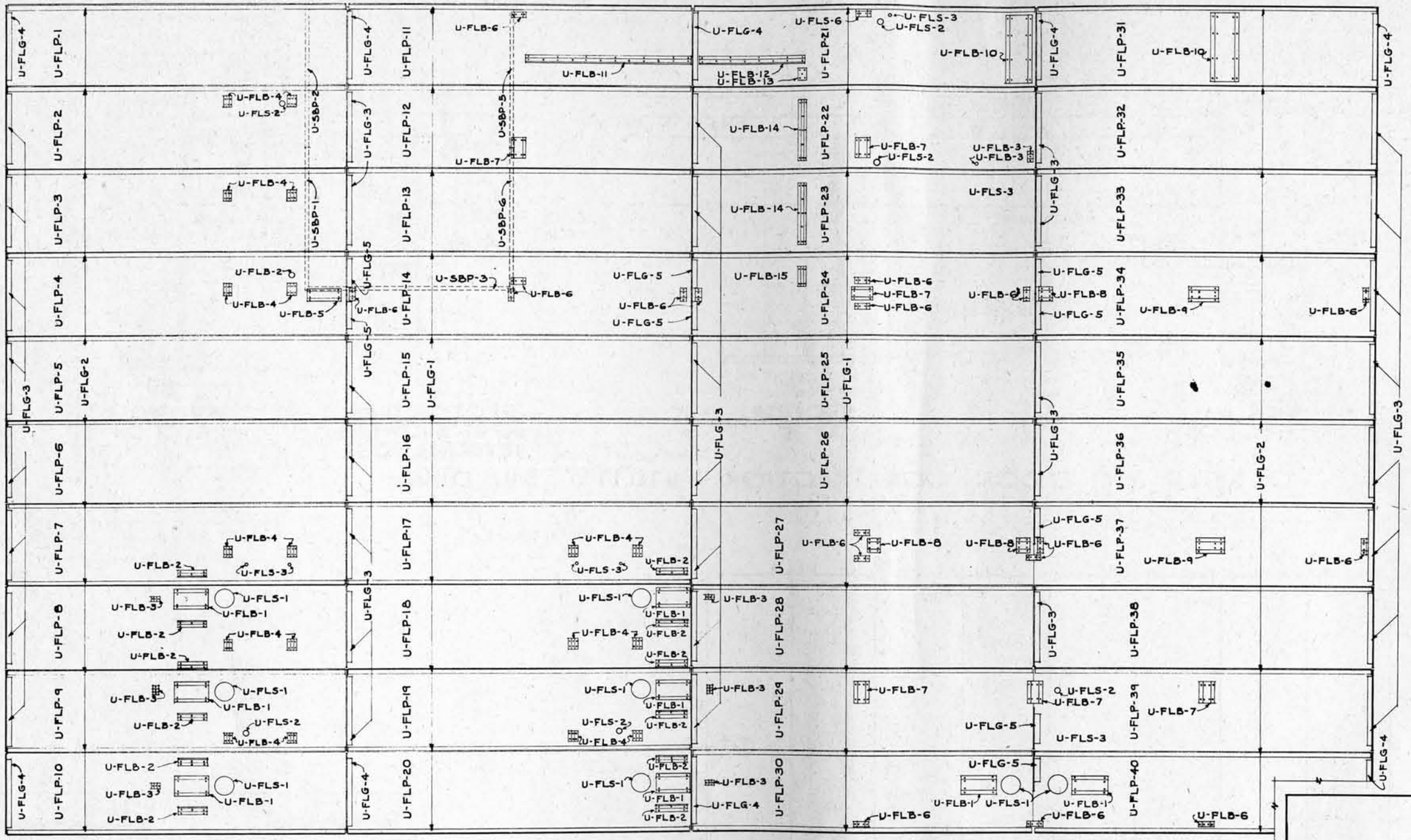
FLOOR FRAMING PLAN - UTILITY BUILDING
SCALE NO. 4

GRAPHIC SCALES
SCALE NO. 4
SCALE NO. 9

THEATER OF OPERATIONS

BUILDINGS-PORTABLE-PREFAB.
N.P. WARD
STEEL (ANGLE FRAME) TROPICAL

PLATE NO. 21



FLOOR PLAN

SHOWING METAL GROUNDS & BLOCKING

SCALE NO. 5

GRAPHIC SCALES

0 3" 6" 9" 1' 2'

SCALE NO. 5

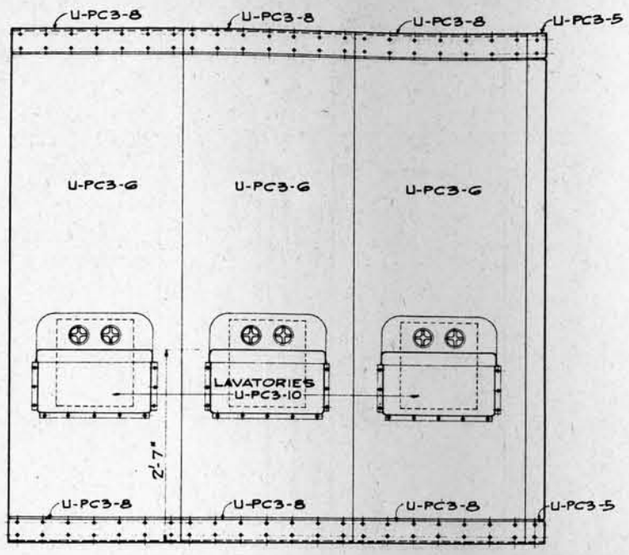
THEATER OF OPERATIONS

BUILDINGS-PORTABLE- PREFAB.

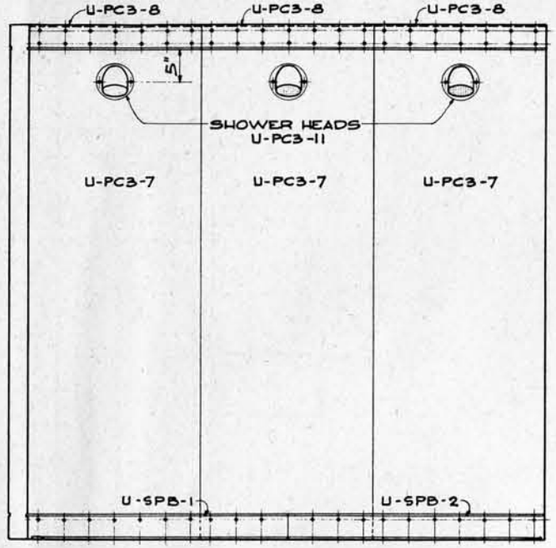
N. P. WARD

STEEL (ANGLE FRAME) TROPICAL

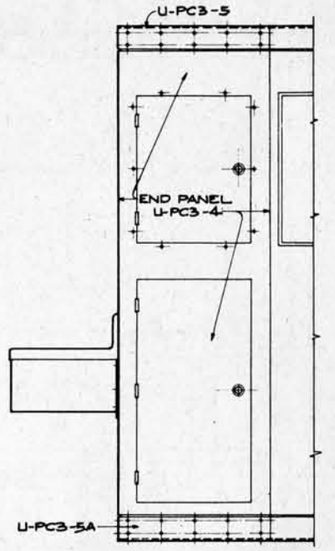
PLATE NO.22



ELEVATION "A"



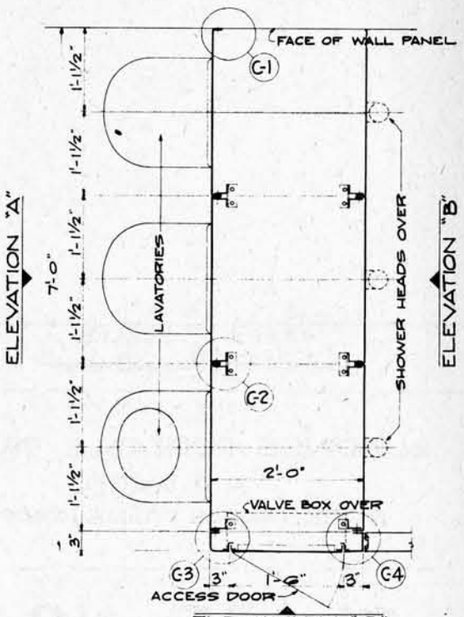
ELEVATION "B"



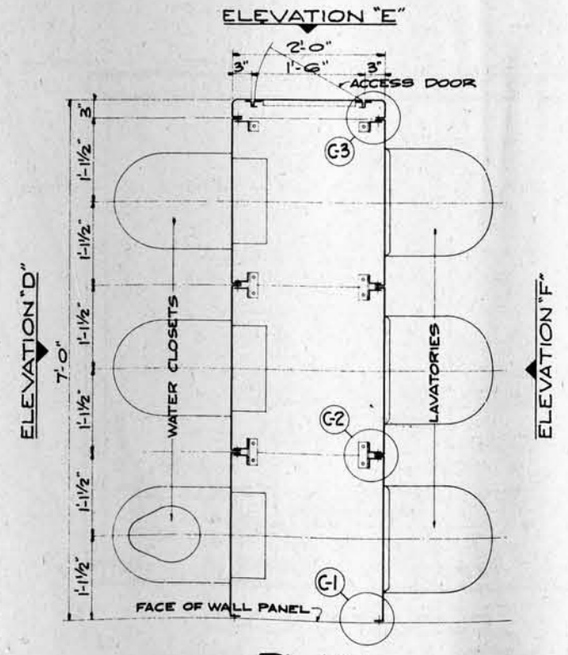
ELEVATION "C"

ELEVATIONS OF PIPE CLOSET NO. 3

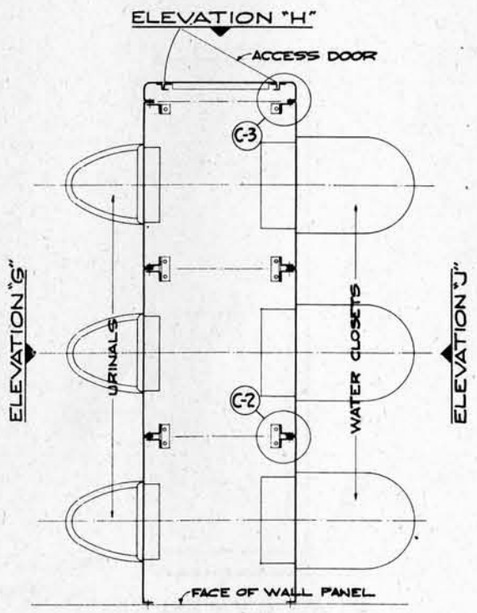
SCALE NO. 7



PLAN-PIPE CLOSET NO. 3
(U-PC3)



PLAN
PIPE CLOSET NO. 2
(U-PC2)



PLAN
PIPE CLOSET NO. 1
(U-PC1)

DETAIL PLANS OF PIPE CLOSETS

SCALE NO. 7

GRAPHIC SCALES

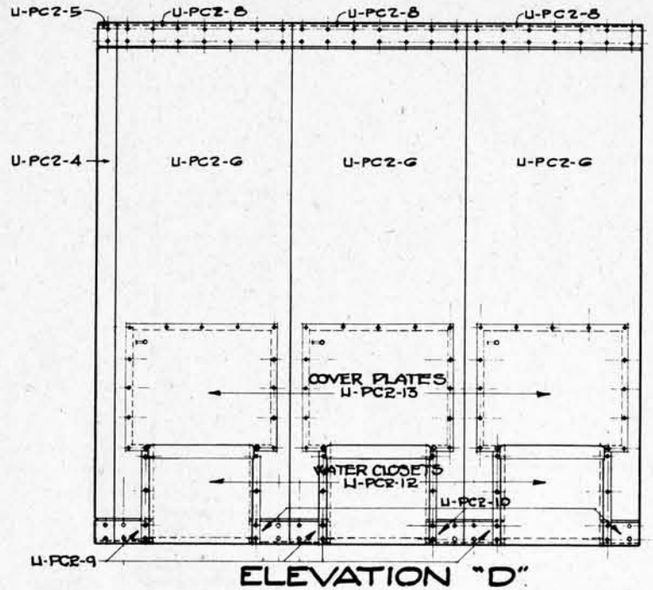
0 6" 1' 2' 3' 4'

SCALE NO. 7

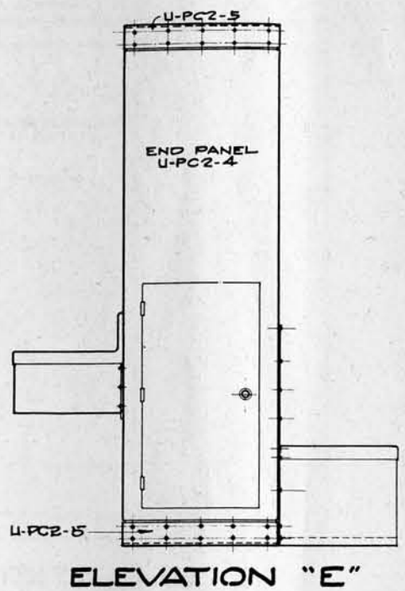
THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB.
N.P. WARD
STEEL (ANGLE FRAME) TROPICAL

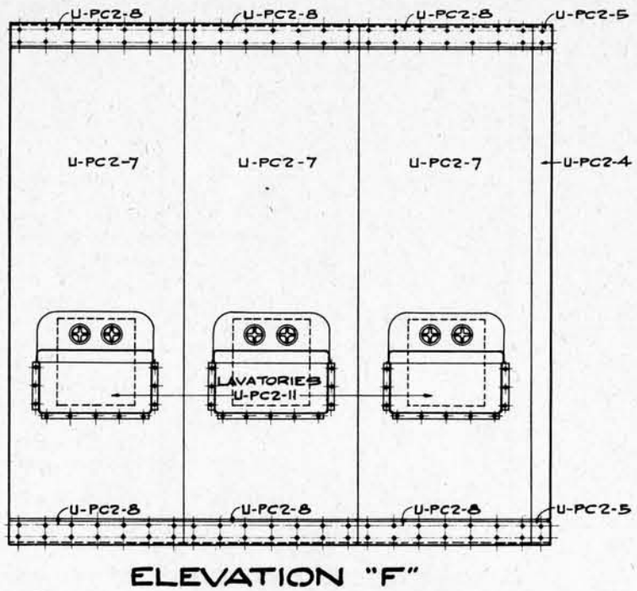
PLATE NO. 23



ELEVATION "D"



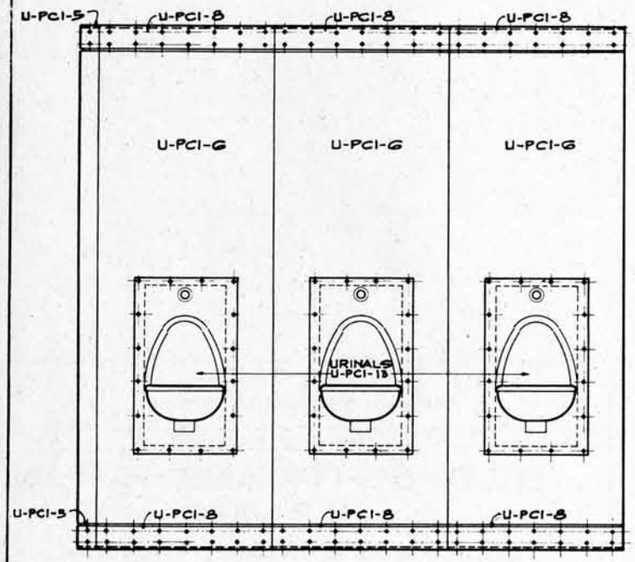
ELEVATION "E"



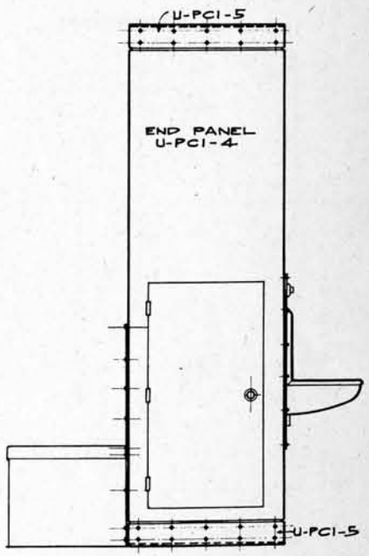
ELEVATION "F"

ELEVATIONS OF PIPE CLOSET NO. 2

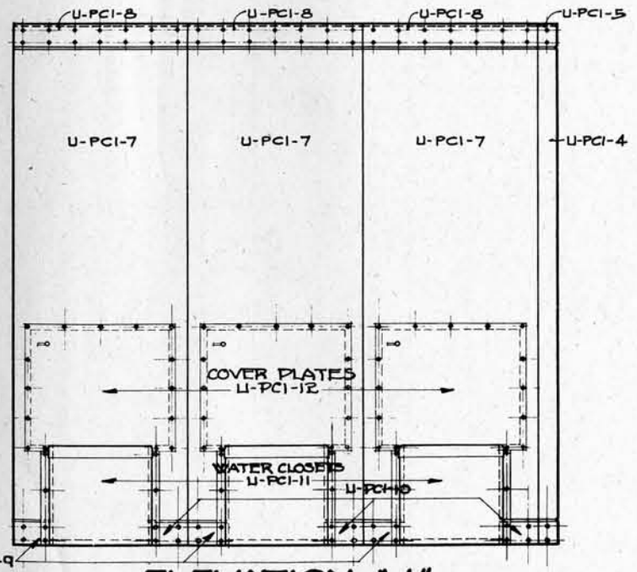
SCALE NO. 7



ELEVATION "G"



ELEVATION "H"



ELEVATION "J"

ELEVATIONS OF PIPE CLOSET NO. 1

SCALE NO. 7

GRAPHIC SCALES

0 6" 1' 2' 3' 4'

SCALE NO. 7

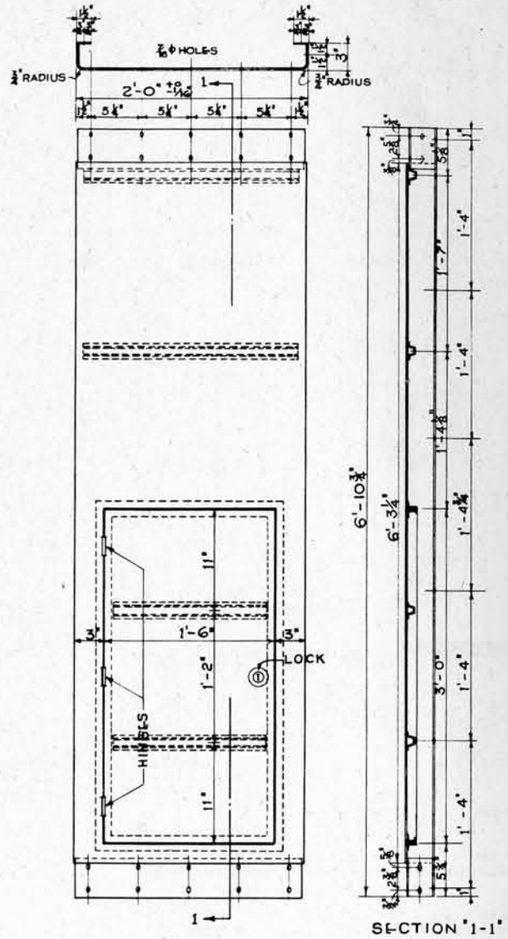
THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB.

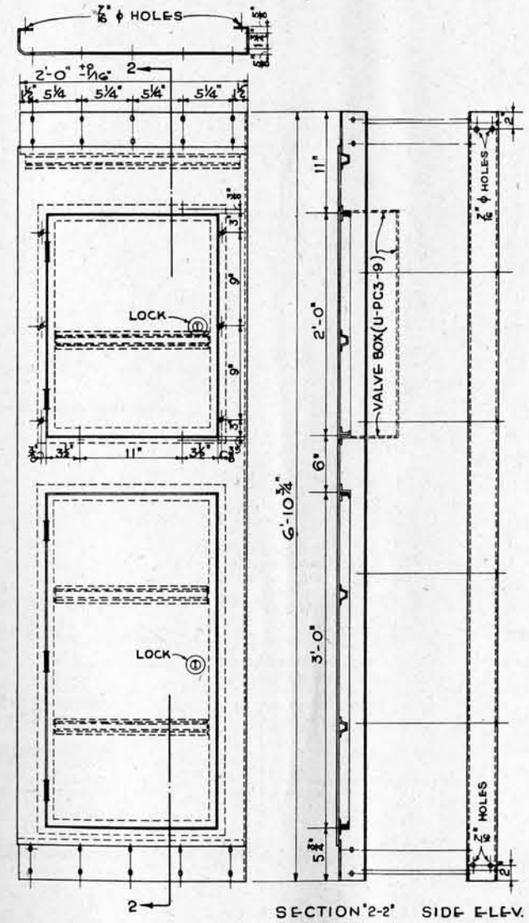
N. P. WARD

STEEL (ANGLE FRAME) TROPICAL

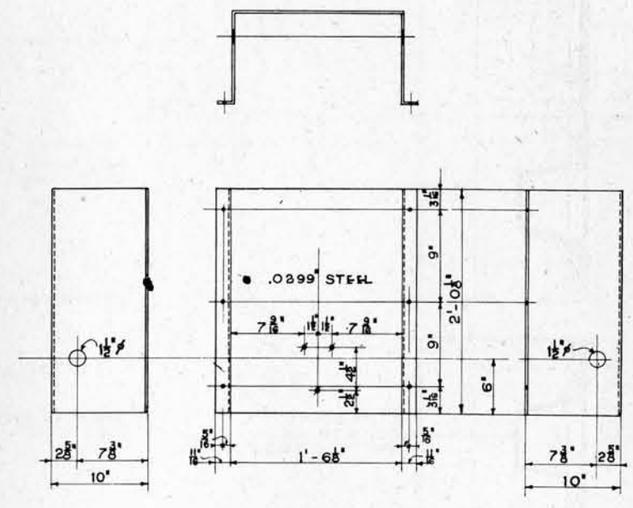
PLATE NO. 24



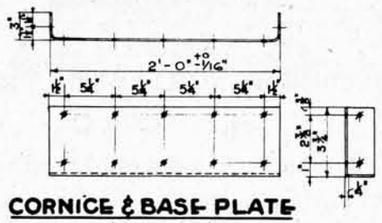
PIPE CLOSET PANEL
(U-PC1-4)
(U-PC2-4)



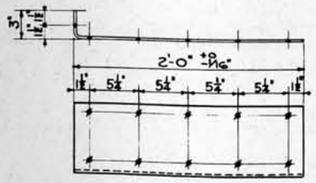
PIPE CLOSET PANEL
U-PC3-4



VALVE BOX
(U-PC3-9)



CORNICE & BASE PLATE
(U-PC1-5)
(U-PC2-5)



BASE PLATE (U-PC3-5A)
CORNICE PLATE (U-PC3-5) OPP HAND

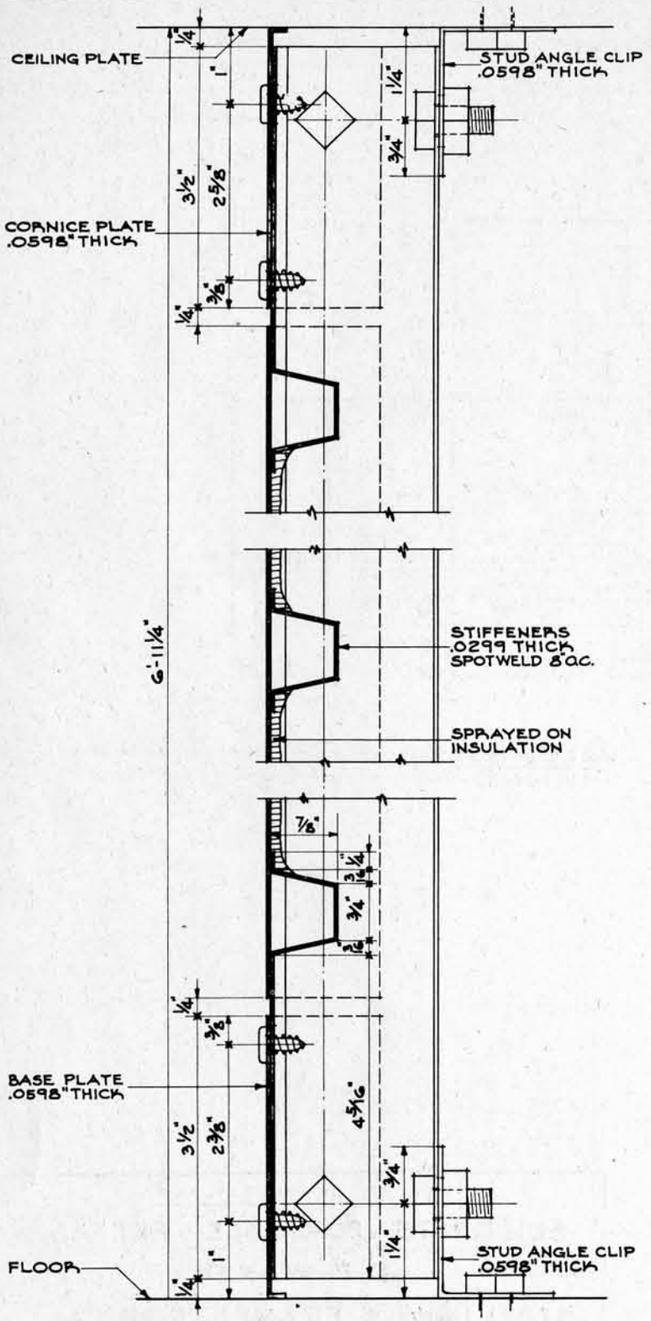
SYMBOLS

0 = ⅝" x 2⅜" SLOTED HOLES
= ⅝" ϕ HOLES

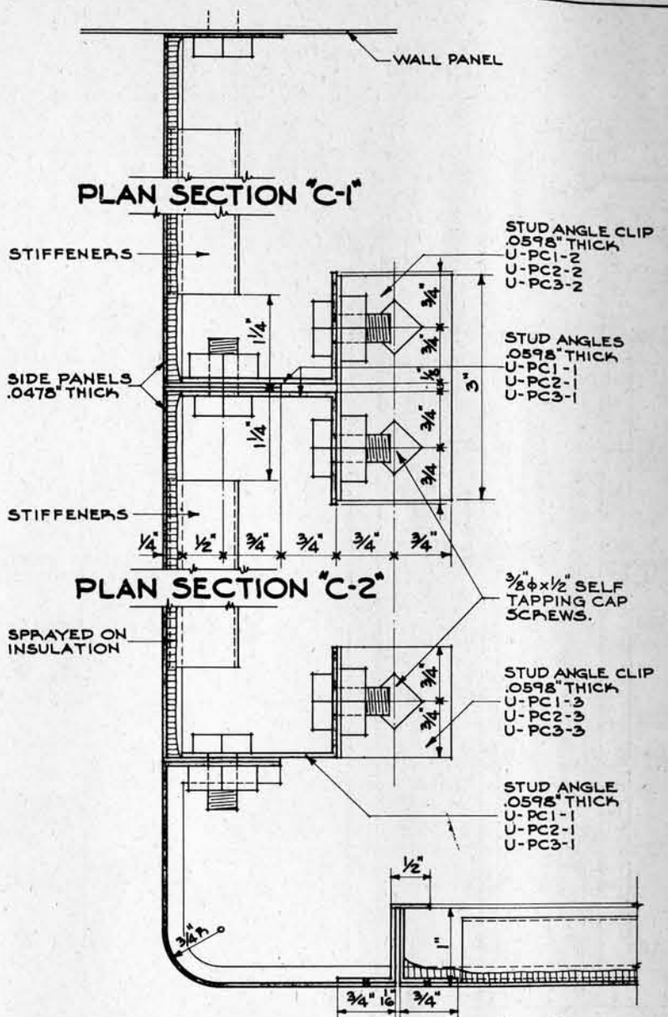
THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB.
N. P. WARD
STEEL (ANGLE FRAME) TROPICAL

PLATE NO. 25



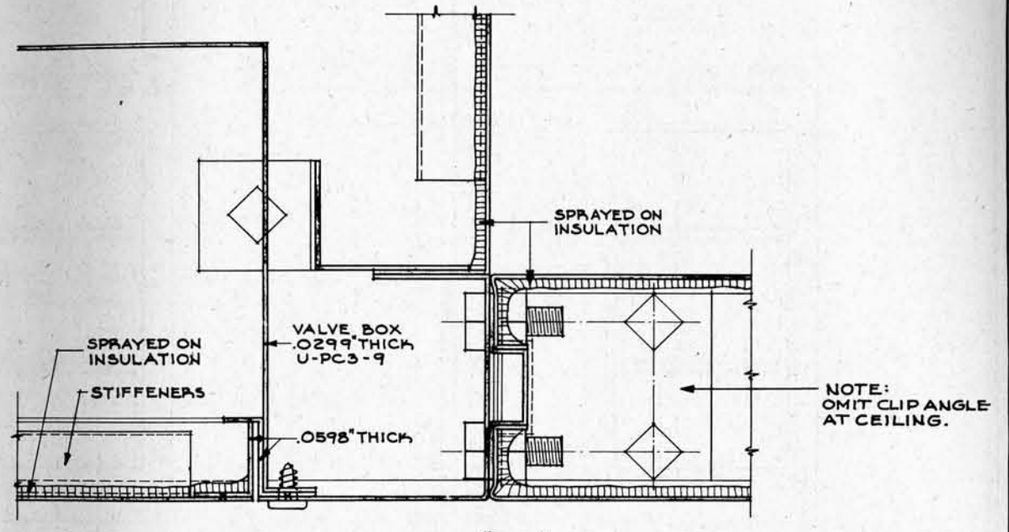
TYPICAL SECTION SIDE PARTITION PANELS



PLAN SECTION "C-1"

PLAN SECTION "C-2"

PLAN SECTION "C-3"
AT ACCESS DOOR



PLAN SECTION "C-4"
AT VALVE BOX

DETAILS OF PIPE CLOSETS UTILITY BUILDING

NOTE:

FOR LOCATION OF SECTIONS SEE SHEET NO. 5 -
ALL SHEET METAL SCREWS SHALL BE #14 x ½" PHILLIPS BINDING HEAD, TYPE A.

GRAPHIC SCALES
0 ½" 1" 2" 3"
SCALE NO. 11

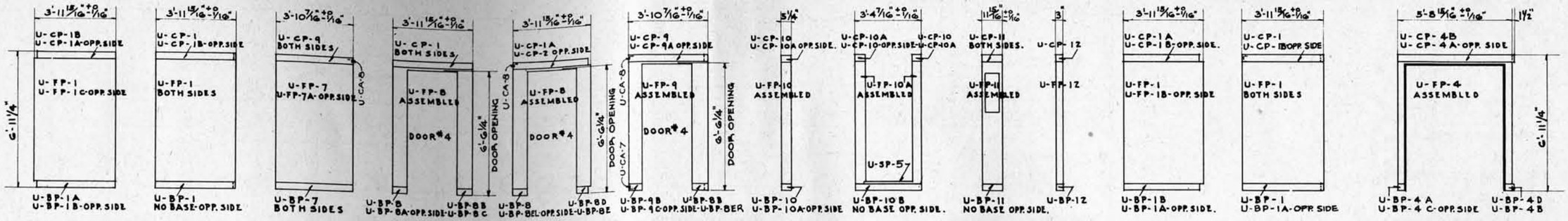
THEATER OF OPERATIONS
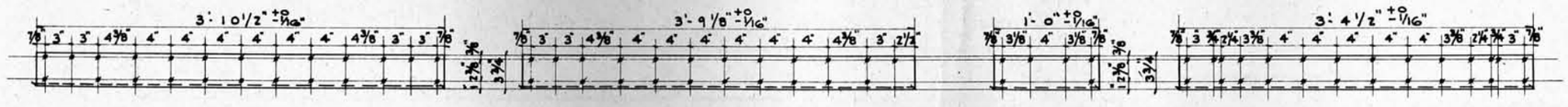
BUILDINGS - PORTABLE - PREFAB.

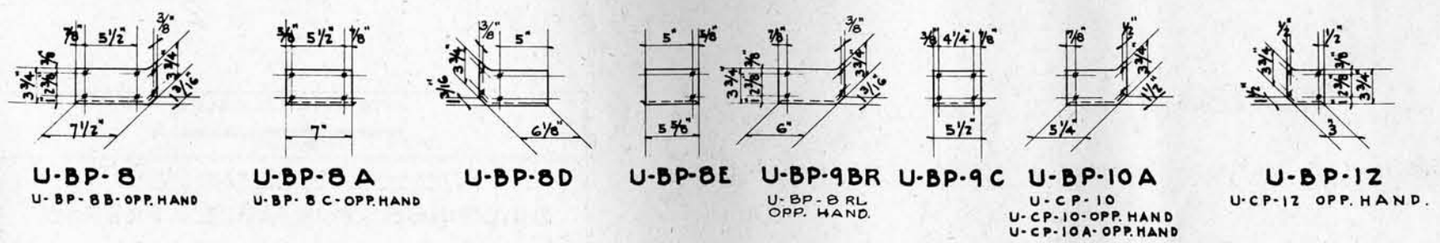
N. P. WARD

STEEL (ANGLE FRAME) TROPICAL

PLATE NO. 26







MEMBER DETAILS - INTERIOR PARTITIONS - UTILITY BUILDING

NOTE - ø = 5/16" HOLE.

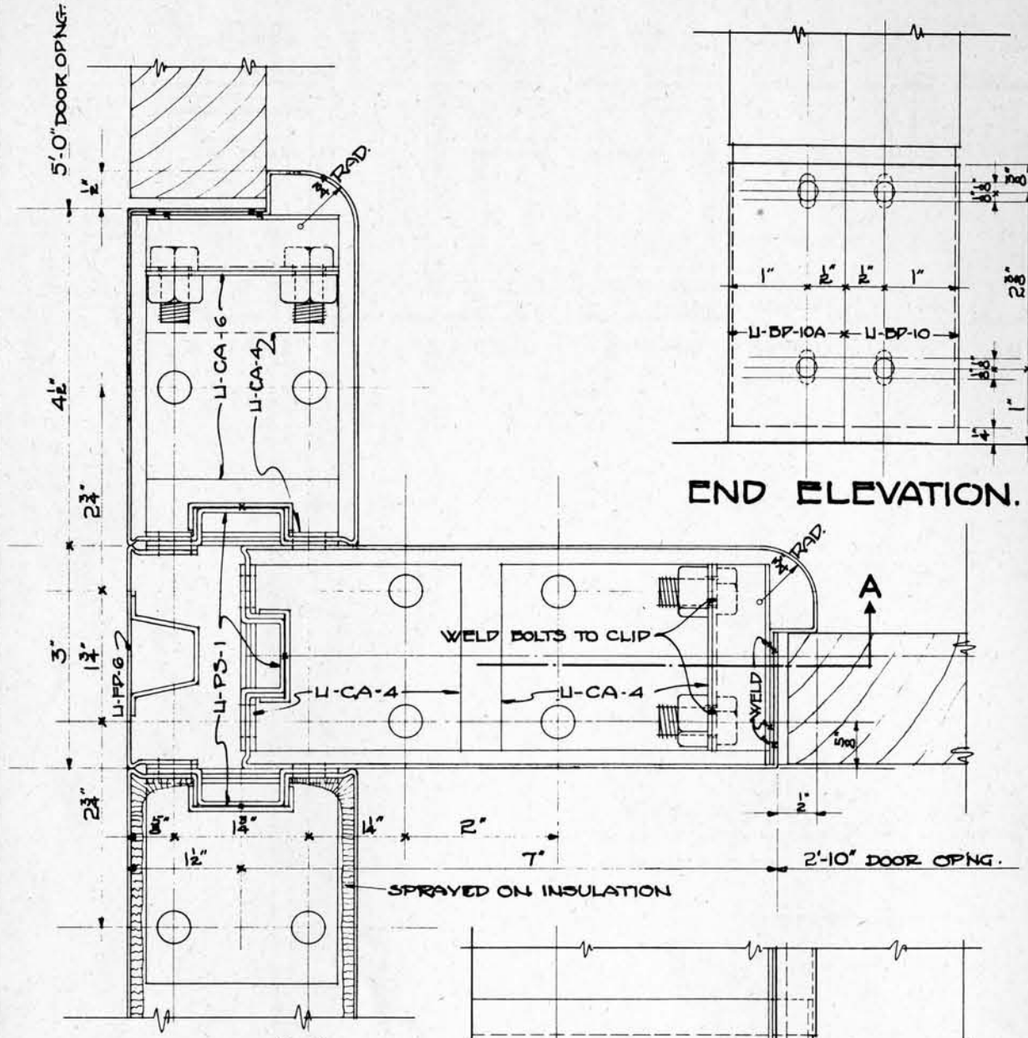
THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB.

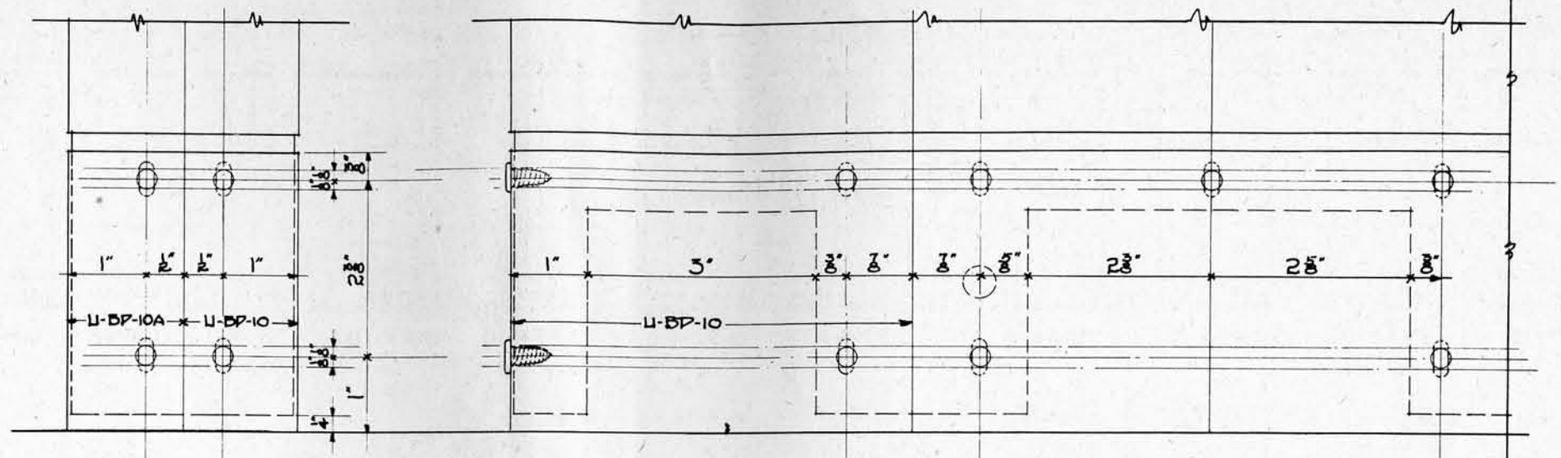
N.P. WARD

STEEL (ANGLE FRAME) TROPICAL

PLATE NO. 27

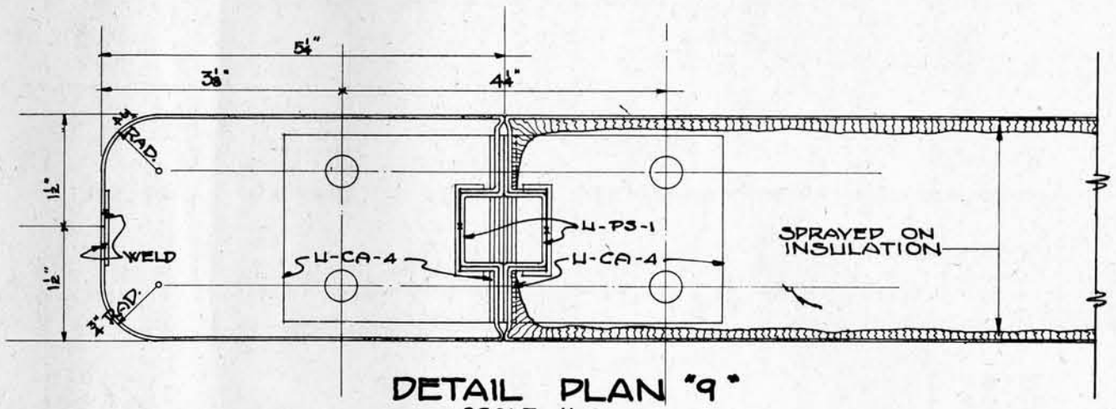


DETAIL "8"
SCALE 11

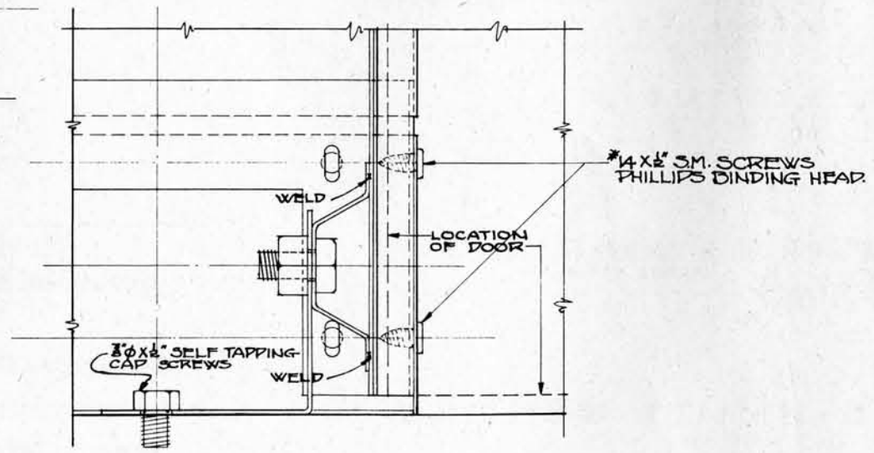


END ELEVATION.

SIDE ELEVATION.



DETAIL PLAN "9"
SCALE 11



SECTION- A

GRAPHIC SCALES
0" 6" 1' 2' 3'
SCALE NO.11.

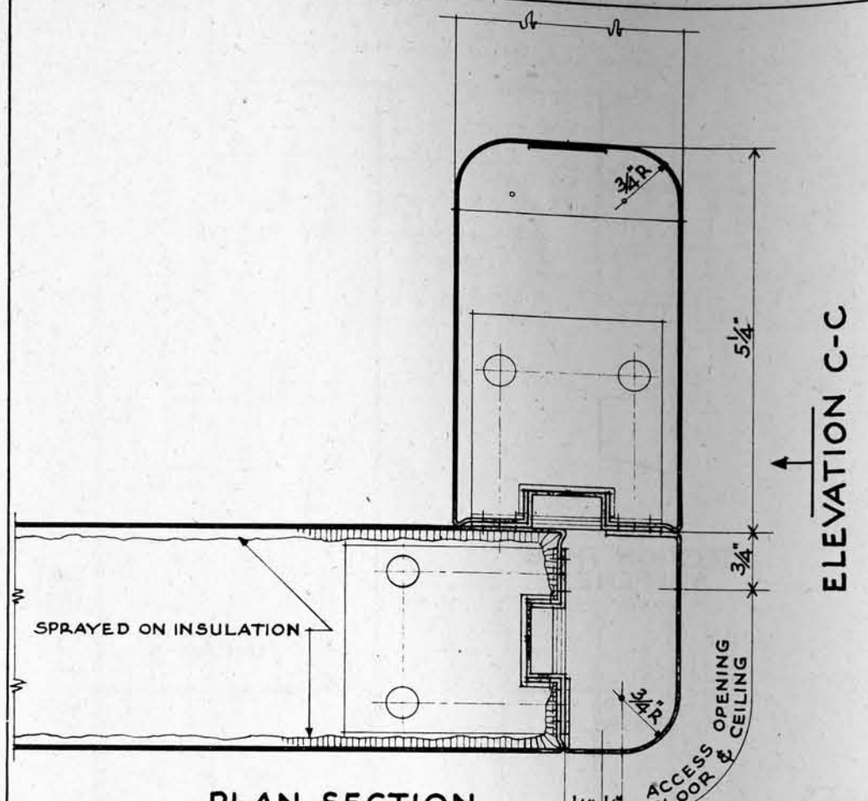
THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB.

N. P. WARD

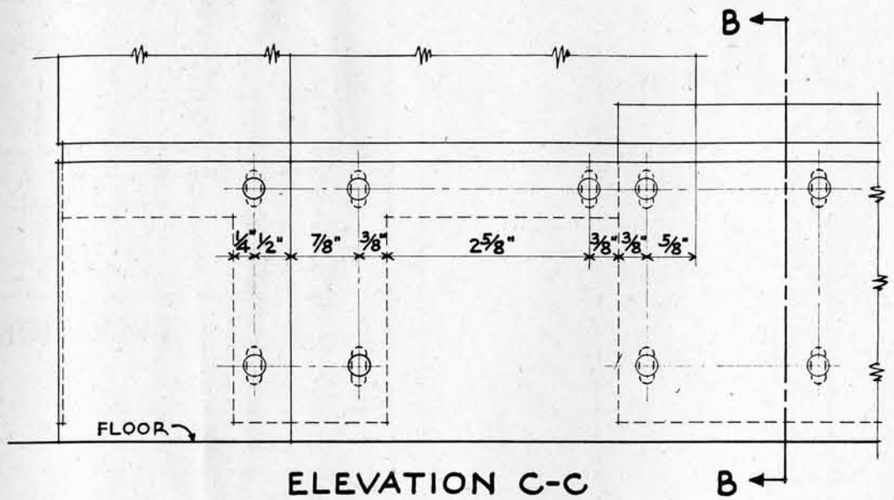
STEEL (ANGLE FRAME) TROPICAL

PLATE NO. 28

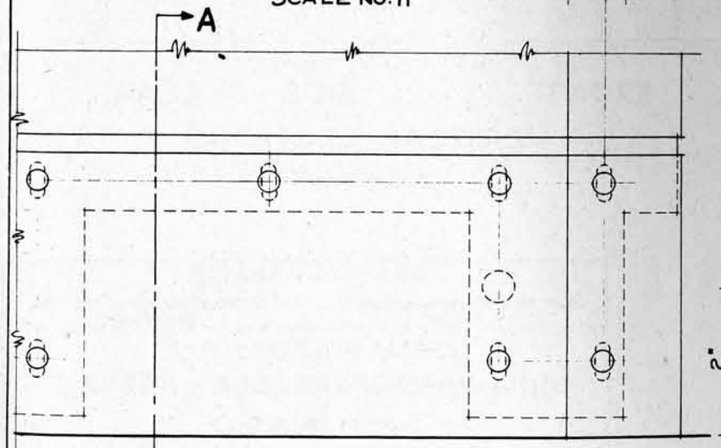


PLAN SECTION
SCALE NO. 11

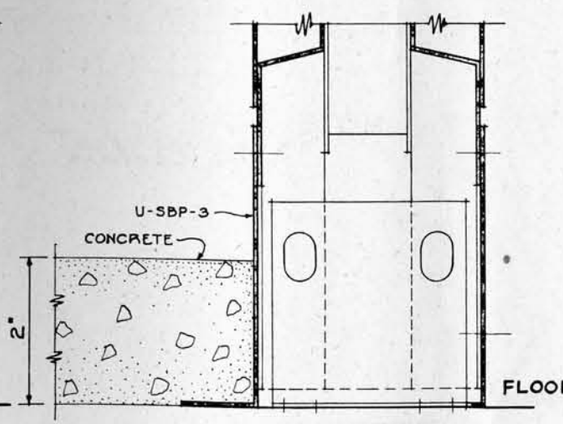
ELEVATION C-C



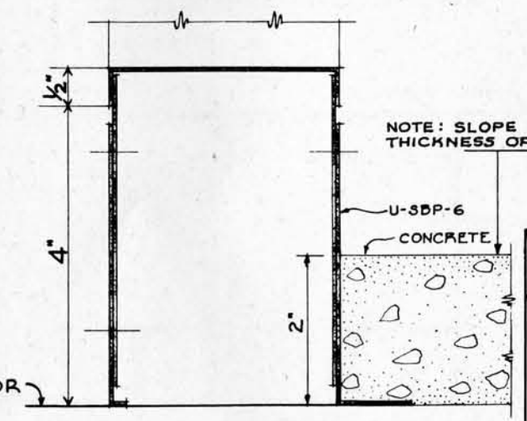
ELEVATION C-C
SCALE NO. 11



ELEVATION
SCALE NO. 11



SECTION A-A AT FLOOR
SCALE NO. 11



SECTION B-B AT FLOOR
(SHOWER CURBING)
SCALE NO. 11

GRAPHIC SCALES
0" 1/4" 1/2" 3/4" 1" 2" 3"
SCALE NO. 11

THEATER OF OPERATIONS

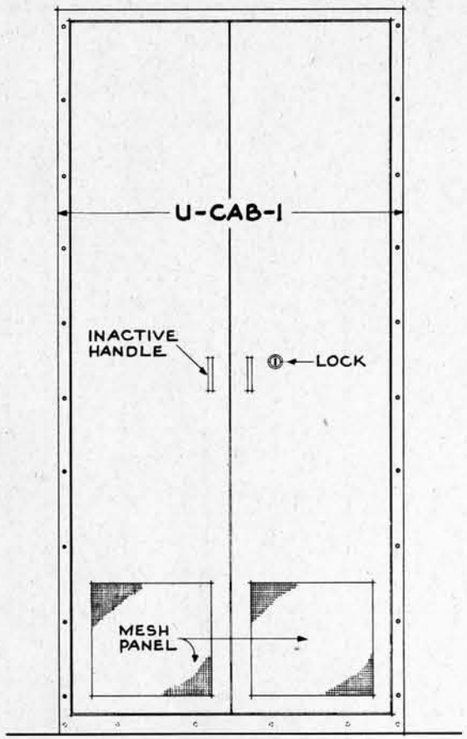
BUILDINGS - PORTABLE - PREFAB.

N. P. WARD

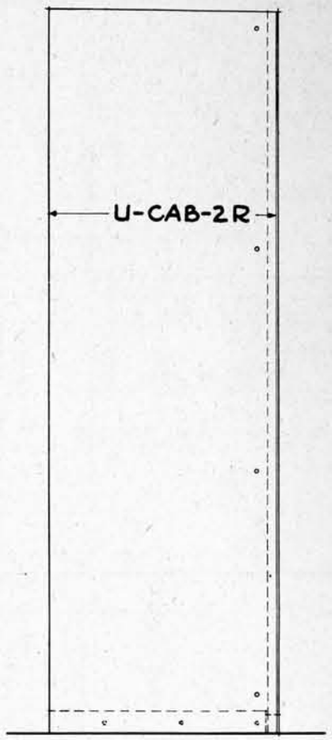
STEEL (ANGLE FRAME) TROPICAL

DETAILS OF PARTITIONS — DETAIL NO. 10

PLATE NO. 29

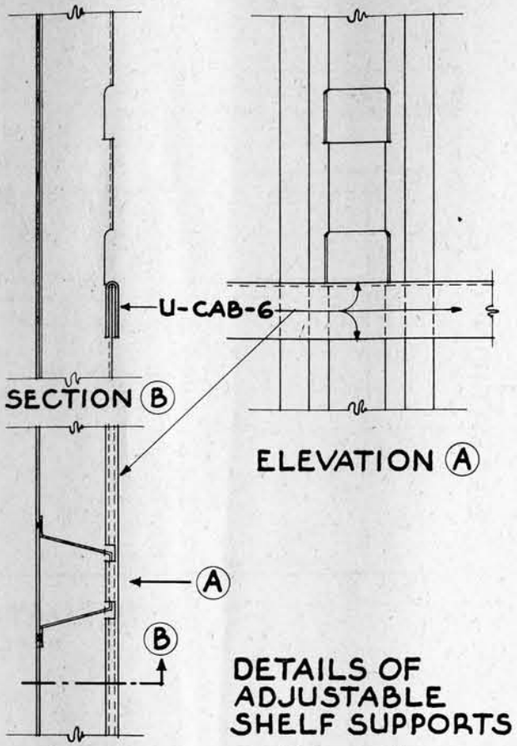


FRONT ELEVATION



SIDE ELEVATION

SCALE NO. 8

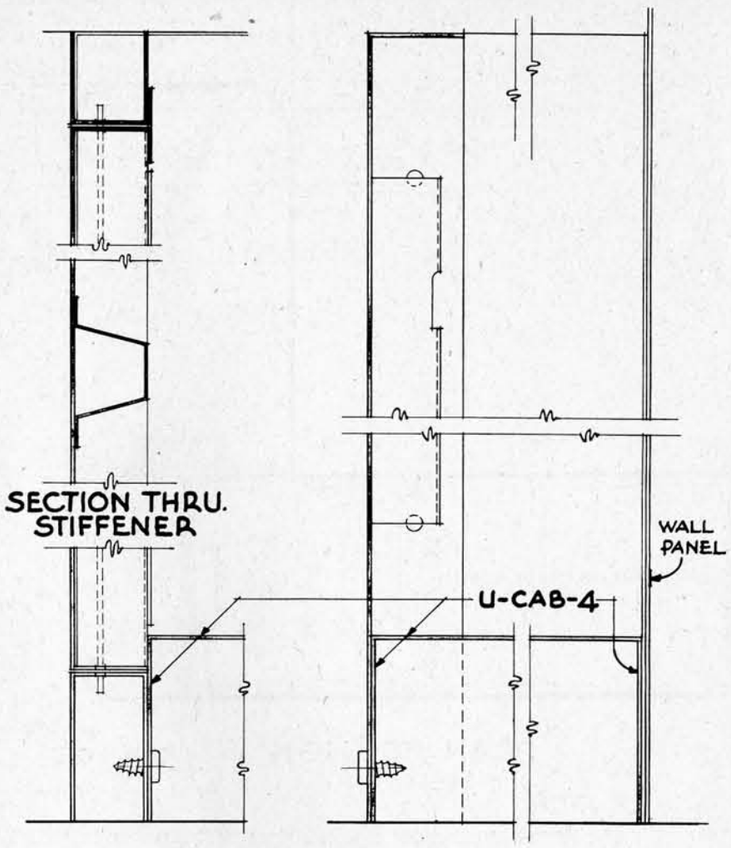


ELEVATION A

PLAN

DETAILS OF ADJUSTABLE SHELF SUPPORTS

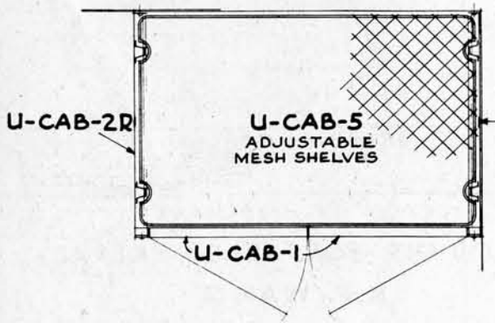
SCALE NO. 11



FRONT SIDE REAR

VERTICAL SECTIONS

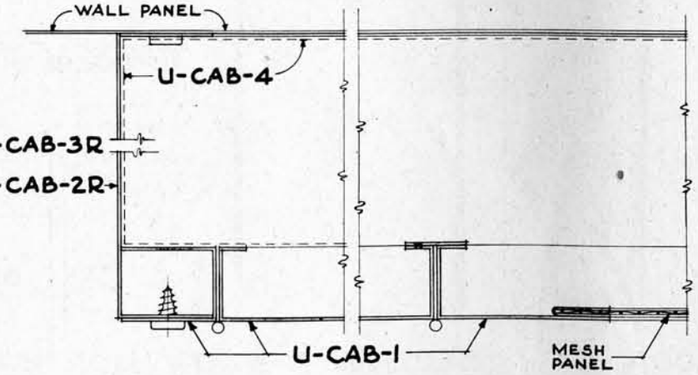
SCALE NO. 11



PLAN

SCALE NO. 8

NOTE 4 SHELVES FOR UTILITY CABINET
1 SHELF FOR BROOM CABINET.



PLAN SECTIONS OF CABINETS

SCALE NO. 11

NOTE:
SCREWS NO.14 - 1/2" S.M.
PHILLIPS BINDING HEAD

GRAPHIC SCALES
0" 3" 6" 9" 1' 2'
SCALE NO. 8
0" 1/4" 1/2" 3/4" 1" 2" 3"
SCALE NO. 11

THEATER OF OPERATIONS

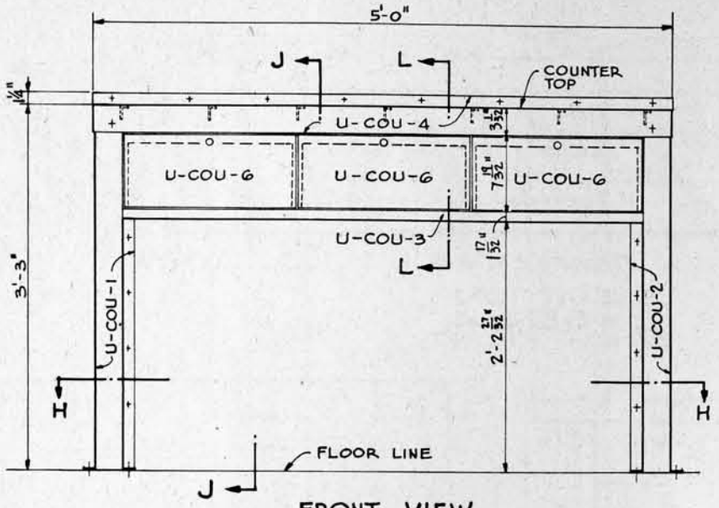
BUILDINGS - PORTABLE - PREFAB.

N. P. WARD

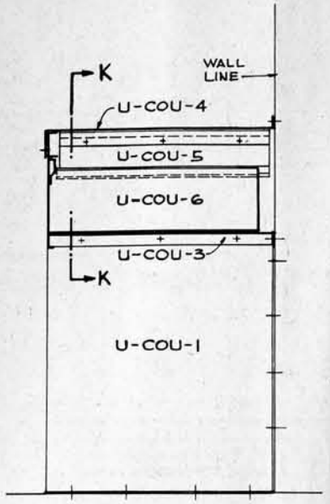
STEEL (ANGLE FRAME) TROPICAL

PLATE NO. 30

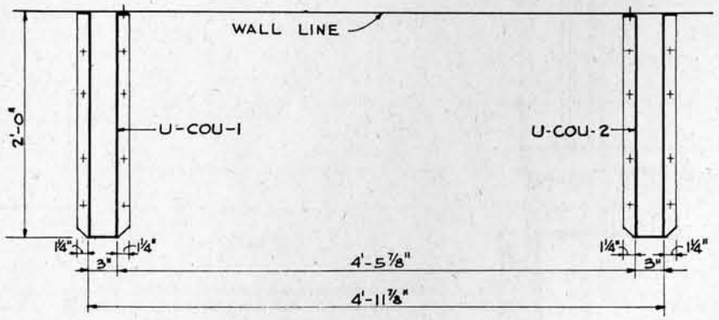
· DETAILS OF UTILITY & BROOM CABINETS ·



FRONT VIEW

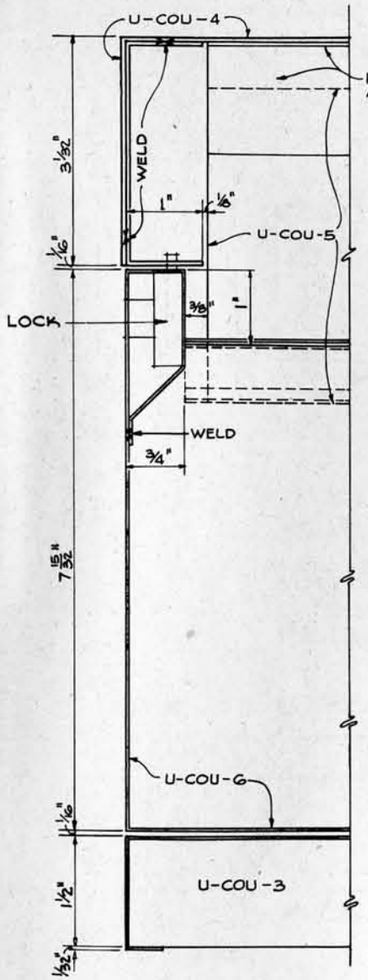


SECTION J - J

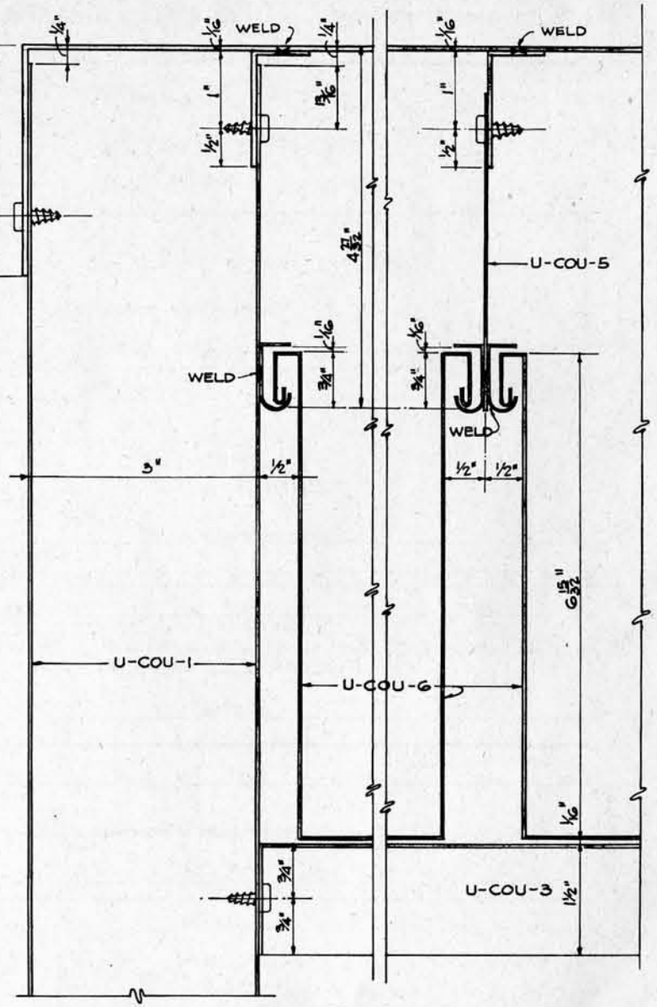


PLAN SECTION - H-H
SCALE NO. 10

NOTE:
SCREWS - NO. 14 - ½" SM.
PHILLIPS BINDING HEAD



SECTION - L-L
SCALE NO. 11



SECTION - K-K
SCALE NO. 11

GRAPHIC SCALES
SCALE NO. 8
SCALE NO. 11

THEATER OF OPERATIONS

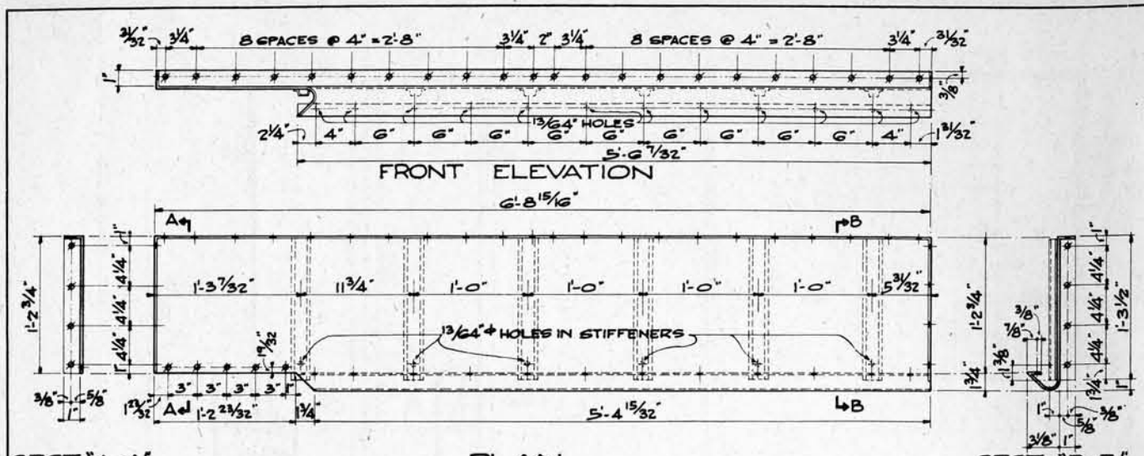
BUILDINGS - PORTABLE - PREFAB.

N. P. WARD

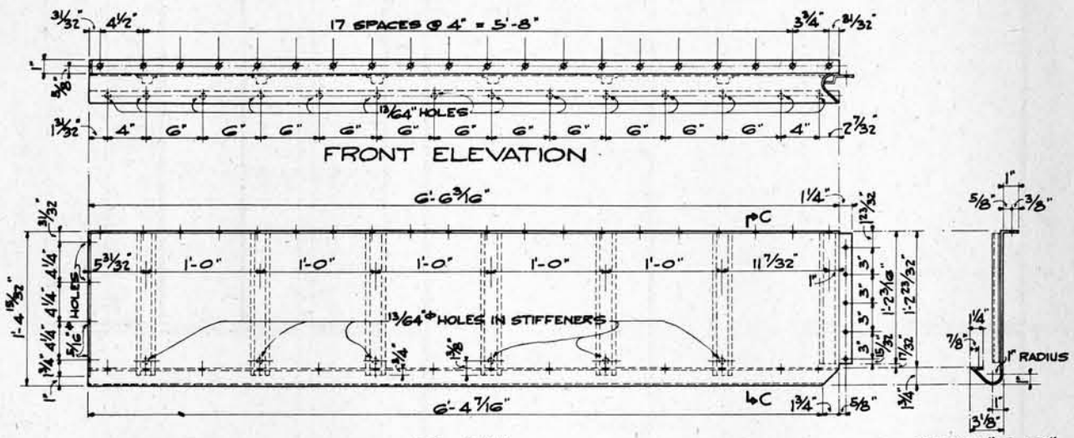
STEEL (ANGLE FRAME) TROPICAL

PLATE NO. 31

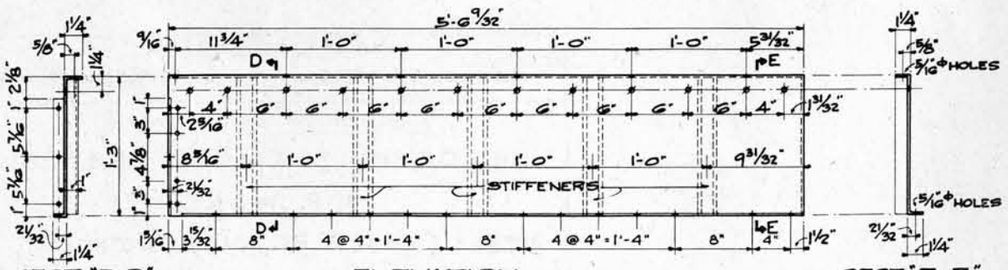
DETAILS OF WORK COUNTER — UTILITY BUILDING



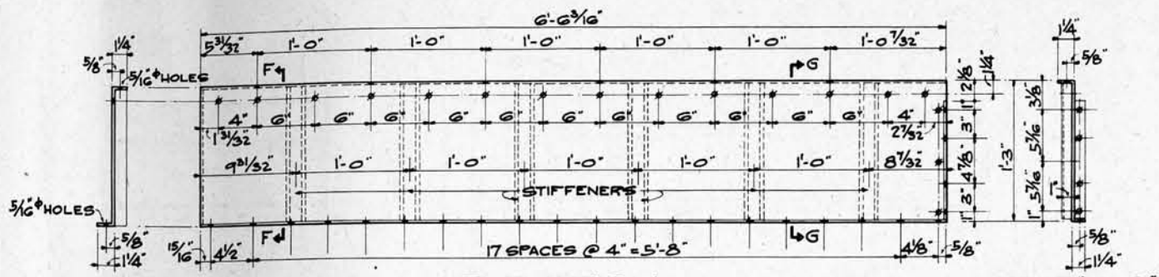
PLAN
U-BEN-1
BENCH TOP



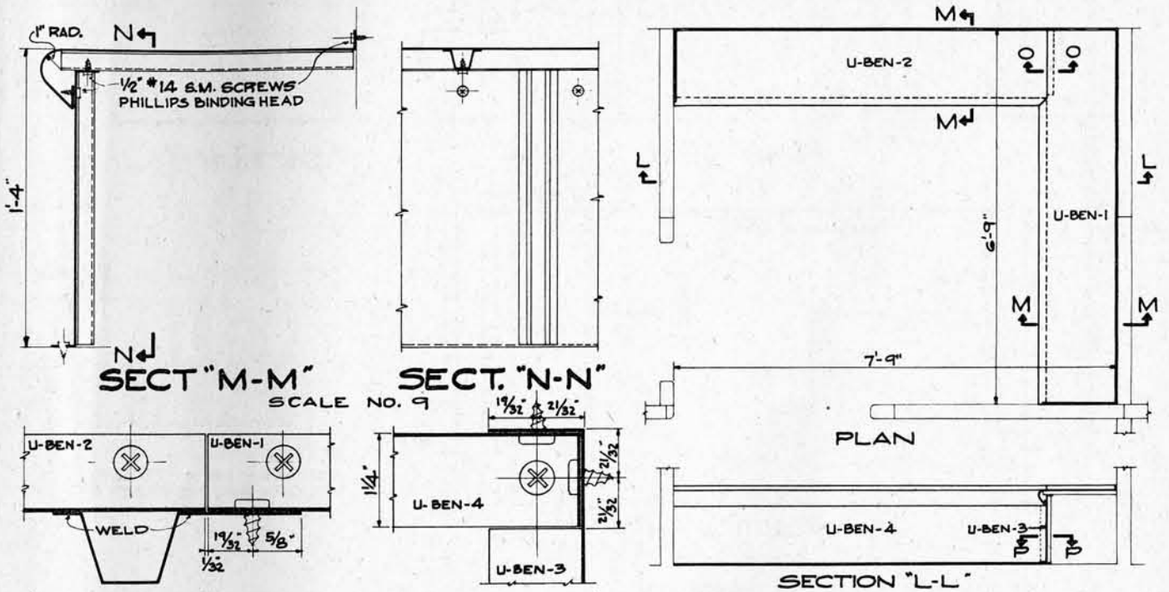
PLAN
U-BEN-2
BENCH TOP



ELEVATION
U-BEN-3
BENCH FRONT



ELEVATION
U-BEN-4
BENCH FRONT



DETAILS OF BENCH IN DRESSING SPACE

GRAPHIC SCALES
SCALE NO. 5
SCALE NO. 9
SCALE NO. 11

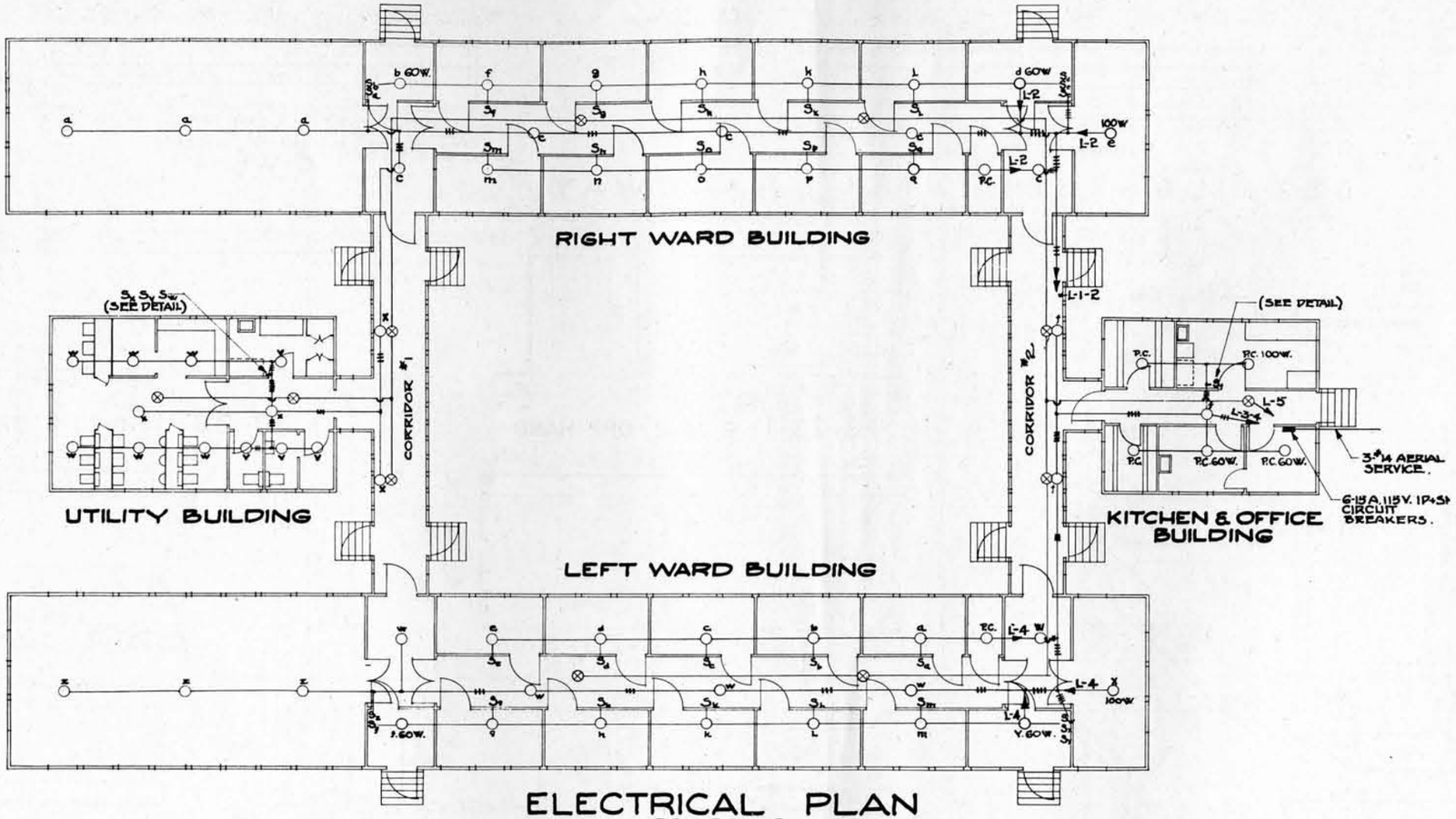
THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB.

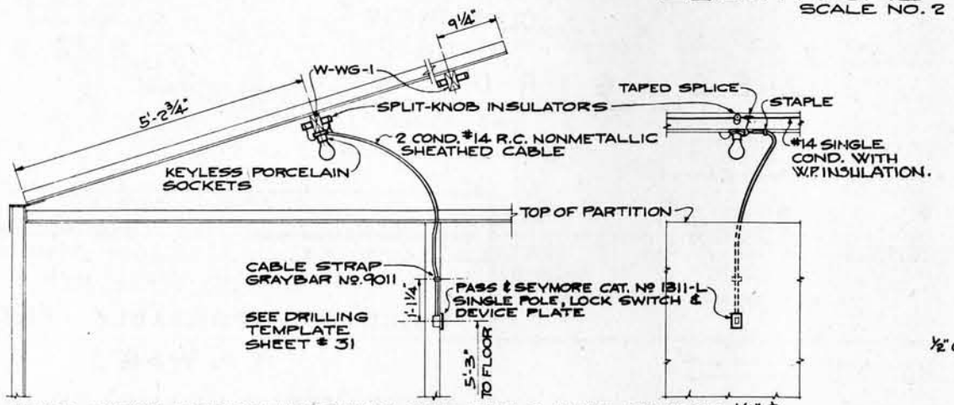
N.P. WARD

STEEL (ANGLE FRAME) TROPICAL

PLATE NO. 32

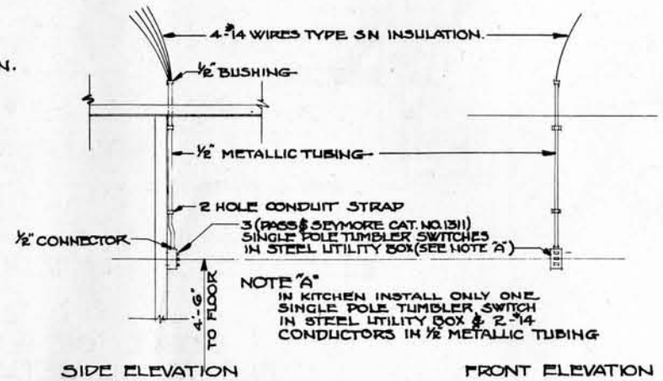


ELECTRICAL PLAN
SCALE NO. 2



WHERE CONDUIT PASSES THRU CEILING OVER PANELS W-PP-1, ENLARGE 1/4" ϕ HOLES IN CEILING PANEL W-CP-3 FOR PASSAGE.... OVER PANELS W-PP-5 & W-PP-5A, ENLARGE CENTER 7/16" ϕ HOLES IN CEILING PANEL W-CP-2.

DETAILS SHOWING INSTALLATION OF LOCK SWITCHES WARD BUILDINGS
SCALE NO. 5



SIDE ELEVATION FRONT ELEVATION

DETAILS - INSTALLATION OF WALL SWITCHES - UTILITY ROOM & KITCHEN.
SCALE NO. 5

CONNECTED ELECTRICAL LOAD.

LIGHTING 2.24 KVA

GRAPHIC SCALES

SCALE NO. 1 SCALE NO. 2 SCALE NO. 3 SCALE NO. 4 SCALE NO. 5

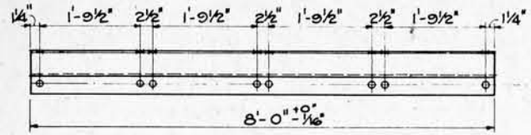
THEATER OF OPERATIONS

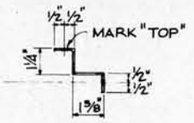
BUILDINGS - PORTABLE - PREFAB.

N. P. WARD

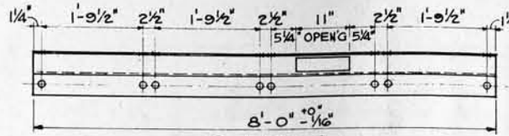
STEEL (ANGLE FRAME) TROPICAL

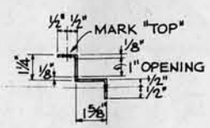
PLATE NO. 33





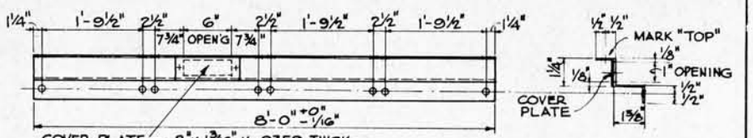
C-WR-1





C-WR-2

C-WR-3 - OPP. HAND.

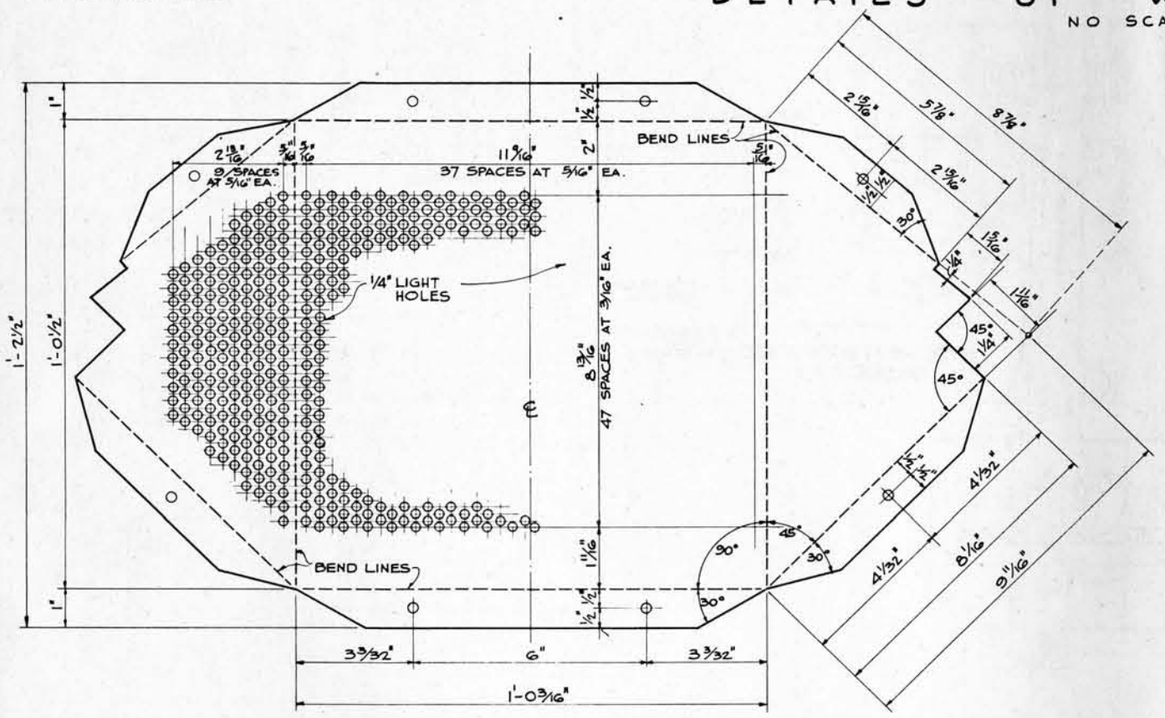


C-WR-4

NOTE:
ALL HOLES - UNLESS OTHERWISE NOTED - 7/16" DIAMETER.
METAL - .0239 THICK.

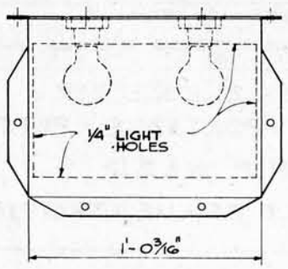
DETAILS OF WIRE RACEWAY.

NO SCALE

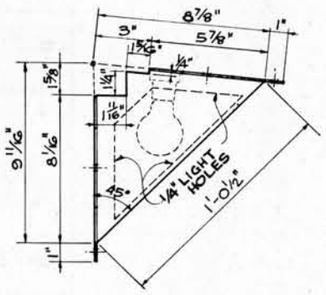


DEVELOPED DETAIL OF LIGHT SHIELD.
SCALE NO. 10

NOTE:
ALL HOLES - UNLESS OTHERWISE NOTED - 5/16" SCREW HOLES.
METAL - .0359 THICK.



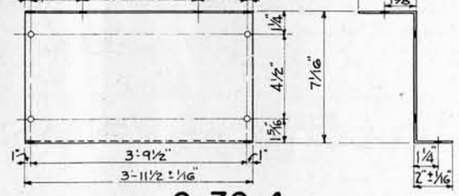
FRONT ELEVATION



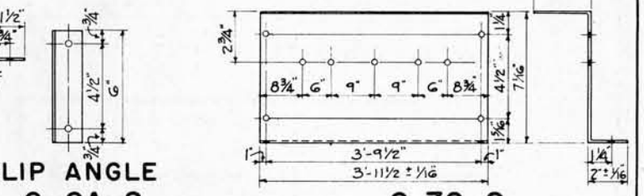
SIDE ELEVATION

SCALE NO. 9

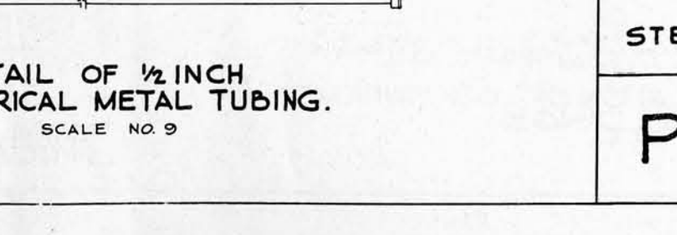
DETAILS OF LIGHT SHIELD



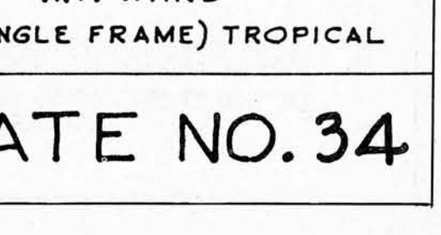
C-ZG-1 C-ZG-2 OPP. HAND



C-ZG-5 C-ZG-6 OPP. HAND



C-ZG-3



C-ZG-7 C-ZG-8 OPP. HAND

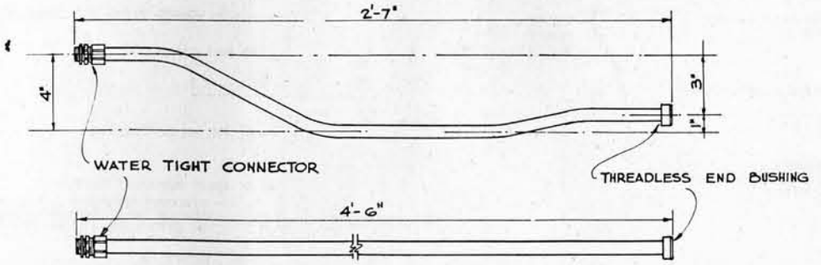
C-ZG-4

CLIP ANGLE
C-CA-2

C-ZG-9

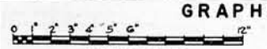
ZEE GIRDERS .0598" THICK

ALL BOLT HOLES IN ZEE GIRDERS SHALL BE 7/16" ϕ
NO SCALE



DETAIL OF ½ INCH
ELECTRICAL METAL TUBING.
SCALE NO. 9

GRAPHIC SCALES



SCALE NO. 9



SCALE NO. 10

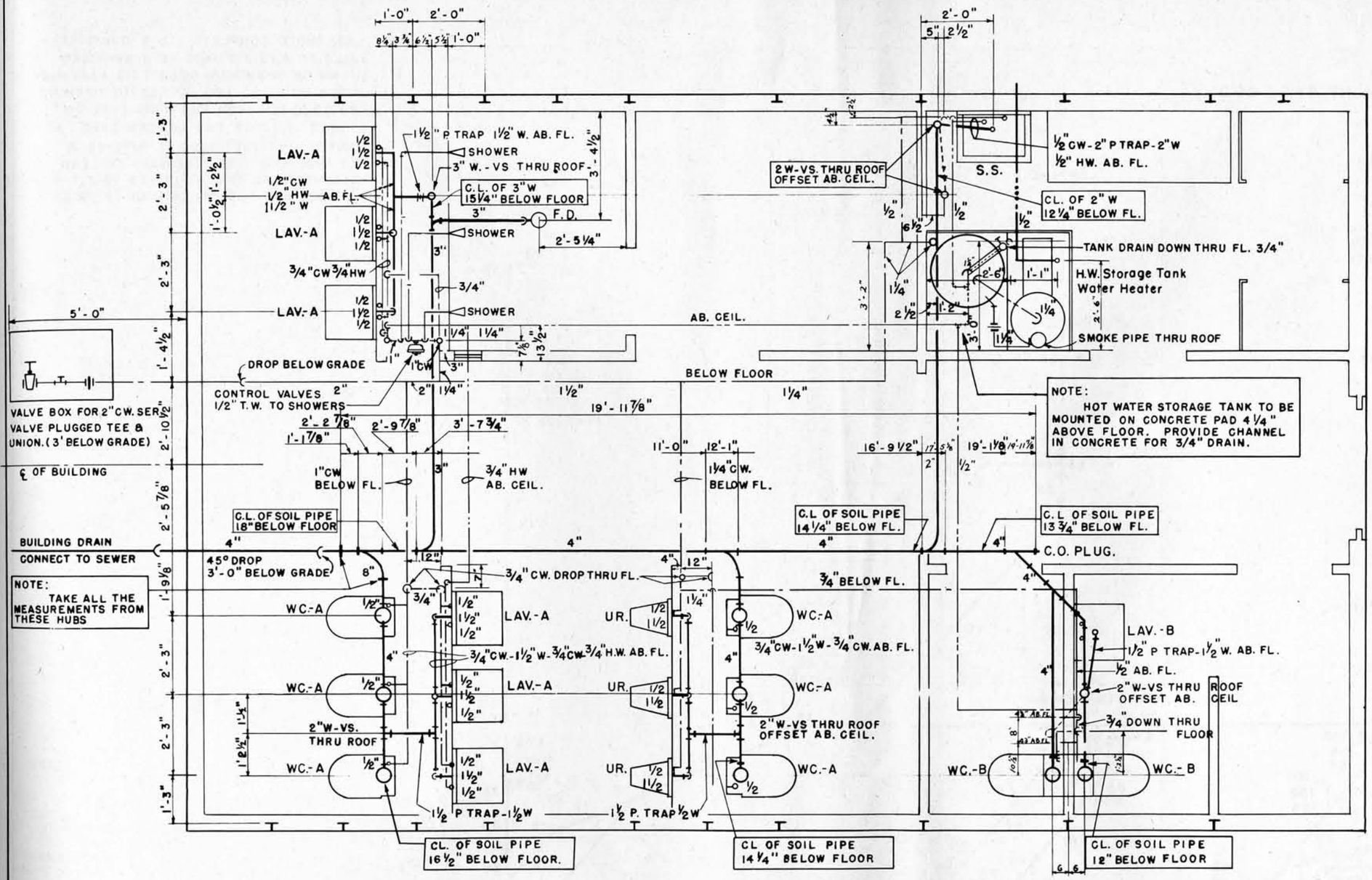
THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB.

N. P. WARD

STEEL (ANGLE FRAME) TROPICAL

PLATE NO. 34



LEGEND

C.W.	COLD WATER
H.W.	HOT WATER
T.W.	TEMPERED WATER
W.	WASTE
V.	VENT
O.	OIL

C.O.	CLEAN OUT
F.D.	FLOOR DRAIN
W.C	WATER CLOSET
LAV.A	LAVATORY
LAV.B	LAVATORY
UR.	URINAL
S.S.	SERVICE SINK
AB. FL.	ABOVE FLOOR
AB. CEIL.	ABOVE CEILING

NOTE:
THE FOLLOWING ALLOWANCES HAVE BEEN MADE FOR TAKE-UP OF THREADS IN FITTINGS. —

4" PIPE	3/4"	FOR THREADS
3" "	5/8"	" "
2" "	1/2"	" "
1 1/2" "	1/2"	" "
1 1/4" "	1/2"	" "
1" "	1/2"	" "
3/4" " AND LESS	3/8"	" "

THEATER OF OPERATIONS

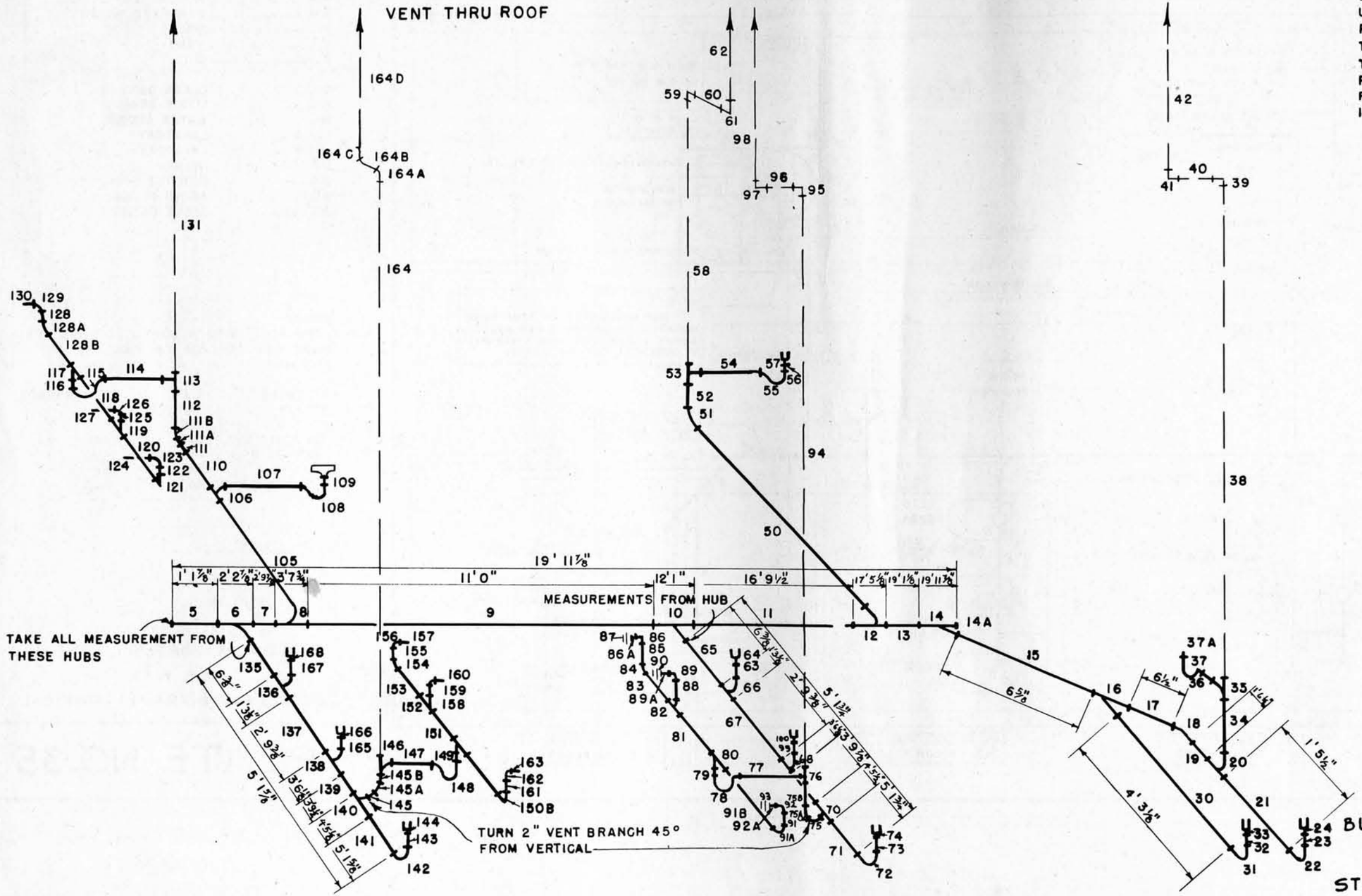
BUILDINGS - PORTABLE - PREFAB.

N. P. WARD

STEEL (ANGLE FRAME) TROPICAL

PLATE NO. 35

NOTE: ASSEMBLE COMPLETE ALL 4" DIA. STEEL SOILPIPE AND FITTINGS TO DIMENSIONS SHOWN ON DRAWINGS, DRAG THIS ASSEMBLY UNDER BUILDING AND LOCATE TO OPENINGS PROVIDED IN FLOOR FOR TWO TYPE "B" TOILETS AND THE TWO CENTER TYPE "A" TOILETS. THE FITTINGS ARE PITCHED 1/4" PER FOOT AND IT IS NECESSARY TO LEAN FROM VERTICAL THE 4 NIPPLES TO FIT HOLES IN FLOOR FOR THE OTHER FOUR "A" TOILETS.



THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB.

N. P. WARD

STEEL (ANGLE FRAME) TROPICAL

PLATE NO. 36

THEMOMETER
UNIONS
VALVES

THERMOSTATIC WATER MIXING VALVE CAPACITY 30 GALLONS PER MINUTE AT 45 POUNDS PRESSURE PER SQUARE INCH (SEE DETAIL OF ASSEMBLY THIS SHEET.)

HOT WATER

HOT WATER STORAGE TANK 140 GAL. CAPACITY

COMB. PRESSURE & TEMP. RELF. VALVE 50,000 B.T.U. PER H.

SINK

SMOKE PIPE THRU ROOF

WATER HEATER CAP. 50 GALS. PER H. AT 100 F. RISE

OIL SUPPLY

DRAIN THRU FLOOR

HOT WATER

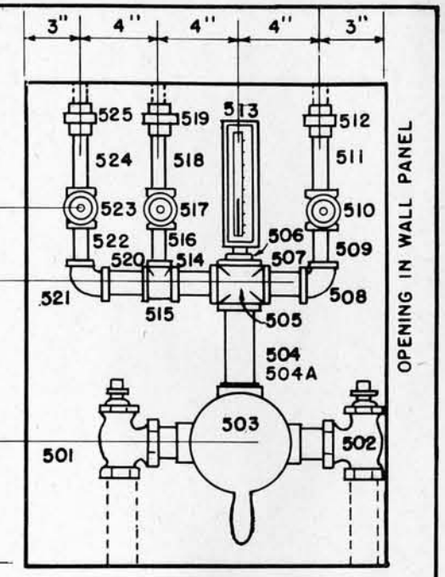
COLD WATER

TO W.C. TANKS

LAV. B.

GRADE

VALVE PLUGGED TEE UNION



DETAIL OF THERMOSTATIC WATER MIXING VALVE ASSEMBLY

THEATER OF OPERATIONS

BUILDINGS - PORTABLE - PREFAB.

N.P. WARD

STEEL (ANGLE FRAME) TROPICAL

PLATE NO. 37