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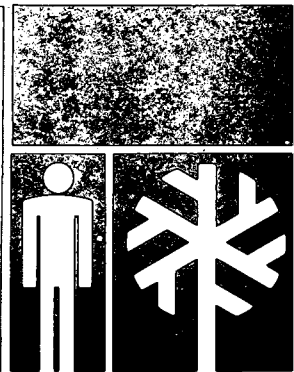
historic structure report

volume 2: appendixes

august 1982

HERBERT HOOVER
11 CORE AREA BUILDINGS

NATIONAL HISTORIC SITE / IOWA



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HISTORIC STRUCTURE REPORT
ELEVEN CORE AREA BUILDINGS
HERBERT HOOVER NATIONAL HISTORIC SITE
WEST BRANCH, CEDAR COUNTY, IOWA

Volume 2: Appendixes

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Des Moines

Under contract to
Denver Service Center
National Park Service
U.S. Department of the Interior

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APPENDIX A: ENERGY REVIEW STUDIES

The following calculations are to determine whether condensation will occur in walls where insulation is blown in and no vapor barrier is installed.

The wall was assumed to have a painted outside wall of siding and sheathing, insulation blown in between the studs (glass fiber, 3 1/2 inches thick), and a painted inside wall of lath and plaster. The following table lists thermal and moisture resistance:

<u>Material</u>	<u>Thermal Resistance Hr./Sq.Ft./°F. Btu</u>	<u>Moisture Resistance Rep</u>
Inside film	0.68	0
Paint & plaster	0.41	1.0
Insulation	11.00	0.3
Paint, siding & sheathing	1.00	0.5
Outside film	<u>0.71</u>	<u>0</u>
Total Resistance	13.26	1.53

Condensation would most likely occur on the inside surface of the outside wall. This plan shall be noted as X-X. Conditions were assumed as follows:

Indoor: 72° db 40% R.H.
 Vapor partial pressure .31" Hg
 Vapor saturated pressure .79" Hg

Outdoor: -4° db 80% R.H.
 Vapor partial pressure .025" Hg
 Vapor saturated pressure .032" Hg

Resistance to wall X-X = 1.03 rep.

Vapor pressure drop to X-X = 0.31 - .044 = .266" Hg

Vapor flow to X-X = .266/1.03 = .258 grains/hr.sq.ft.

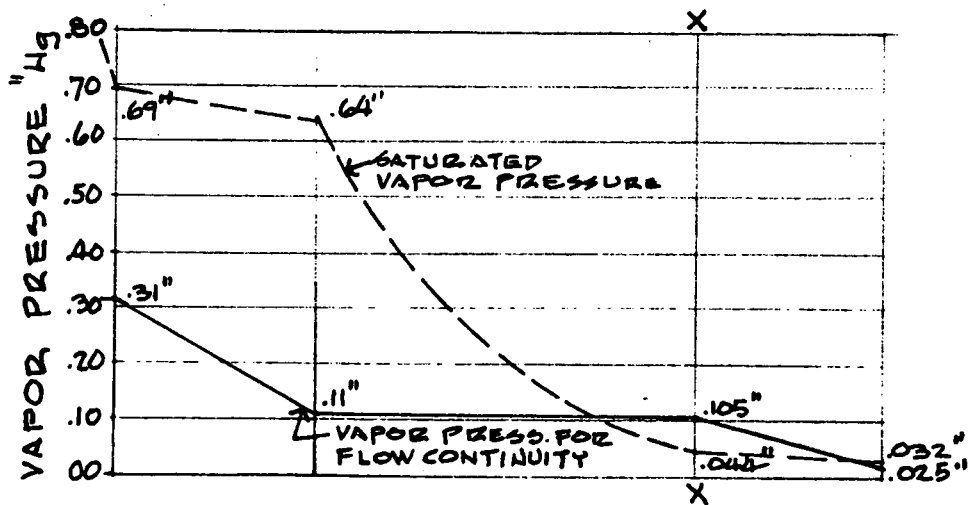
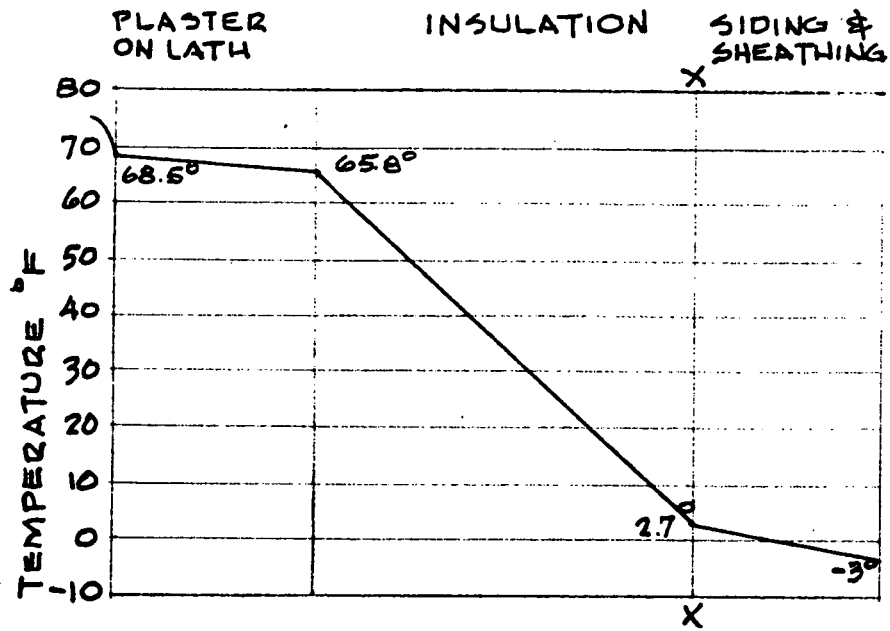
Resistance from X-X to outdoors = 0.5 rep.

Vapor pressure drop from X-X to outdoors = 0.044 - .025 = .019" Hg

Vapor flow to outdoors = .019/.5 = .038 grains/hr.sq.ft.

Condensation will occur at plan X-X at 0.22 grains/hr.sq.ft.

The following chart plots temperature and vapor pressure through the wall:



For no condensation to occur, resistance to X-X should be:

$$\frac{.31 - .044}{0.38} = 7.0$$

To meet this resistance, a sheet of polyethylene 2 mils thick should be installed on the room side of the insulation.

These calculations, however, were based on the design point of -4° F outside temperature. This temperature, along with the corresponding condensation, may be equaled or exceeded only about 300 hours a year. In this case, it will be in the form of frost, which may accumulate until released over a short period with a rise in outdoor temperature. This may not be serious, as the condensation might be readily absorbed by the sheathing without excessive wetting.

In summary, condensation will occur if no vapor barrier is used. Over a period of time some damage is likely to occur, although this can be minimized by the use of a vapor barrier-type paint on the room side of the exterior walls. Note: 0.22 grains/hr.sq.ft. would equal about an ounce of water per day over 80 sq.ft. of wall surface. This would increase if the relative humidity was maintained at a higher level within the structure.

P.T. SMITH HOUSE (HS-2)

Type

A1 residential (1975 ASHRAE Standard 90-75)

Intended use by National Park Service: multiple-use assembly space and associated staff requirements.

Description

Existing historic edifice, two-story, with normal windows and doors. House has new foundation and partial basement. The loads were figured based on single-glazed windows, one-half of the walls with 3-1/2-inch loose insulation, 3 inches insulation in the attic.

Criteria from 1975 ASHRAE Standard for Locale

Winter design dry-bulb - 72° F., -4° F.

Summer design dry-bulb - 91° F., wet-bulb 77° F.

Degree days heating - 6,588

Cooling hours - 800

Degrees north latitude - 40

Existing gross floor area (excluding attic) - 1,369 sq.ft.

Existing gross volume (excluding attic) - 10,664 cu.ft.

Combined gross exposed wall area - 1,937 sq.ft.

Percentage of openings - 12.4

Existing combined wall transmittance (U°) - 0.325 Btu/sq.ft./hr./F.

Combined gross exposed roof/ceiling area (no openings) - 1,106 sq.ft.

Existing roof/ceiling transmittance - U° - 0.91 Btu/sq.ft./hr./F.

Existing floor over crawl space transmittance U° - .115 Btu/sq.ft./hr./F.

Requirements from Charts, ASHRAE 90-75

U° walls - - - - - 0.21 Btu/sq.ft./hr./F.

U° roof ceilings - - - - - 0.05 Btu/sq.ft./hr./F.

U° floor over unheated spaces - - 0.08 Btu/sq.ft./hr./F.

Logical Procedures to Make this Building More Energy Efficient

Install 3-1/2-inch R-11 fiberglass batt insulation in all above-grade stud walls and install storm doors and windows which will give an overall U° - 0.181 Btu/sq.ft./hr./F.

Add mineral wool or fiberglass insulation in the attic to bring the total depth to about 8 inches. U° - 0.045 Btu/sq.ft./hr./F.

Add 1 inch of styrofoam to the perimeter of the crawl space which will give an overall U° - 0.079 Btu/sq.ft./hr./F.

HANNAH VARNEY HOUSE (HS-4)

Type

A1 residential (1975 ASHRAE Standard 90-75)

Intended use by National Park Service: Residence

Description

Existing historic edifice, one-story, with minimal windows and doors. House was set on a new foundation with full basement in 1967. The loads were figured based on single-glazed windows with storm sash (except basement). Anticipate developing existing attic space into two bedrooms to within approximately 3 feet 9 inches of exterior walls.

Criteria from 1975 ASHRAE Standard for Locale

Winter design dry-bulb - 72° F., -4° F.

Summer design dry-bulb - 91° F.; wet-bulb 77° F.

Degree days heating - 6,588

Cooling hours - 800

Degrees north latitude - 40

Existing gross floor area (excluding attic) - 1,540 sq.ft.

Existing gross volume (excluding attic) - 12,920 cu.ft.

Proposed gross floor area - 1,875 sq.ft.

Proposed gross volume area - 16,330 cu.ft.

Combined gross exposed wall area - 1,812 sq.ft.

Percentage of openings - 5.8

Existing combined wall transmittance - U° - 0.317 Btu/sq.ft./hr./F.

Combined gross exposed roof/ceiling area (no openings) - 895 sq.ft.

Existing combined roof/ceilings transmittance - U° - 0.309 Btu/sq.ft./hr./F.

Requirements from Charts, ASHRAE 90-75

U° walls - - - - - 0.21 Btu/sq.ft./hr./F.

U° roof/ceiling - - - - - 0.05 Btu/sq.ft./hr./F.

U° floors over unheated spaces - - 0.08 Btu/sq.ft./hr./F.

Logical Procedures to Make this Building More Energy Efficient

Above second-floor line, fill all exterior stud walls, rafters, and ceiling joists with R-11 fiberglass batt insulation.

Above second-floor line, apply 1-inch-thick plaster-base polystyrene boards ($R = 4.00$) to inner surface of wall and ceiling framing.

Install storm windows where they do not now exist, except in the basement.

Resulting transmittances:

New wall - $U^\circ - 0.191$ Btu/sq.ft./hr./F.

New ceiling/roof - $U^\circ - 0.057$ Btu/sq.ft./hr./F.

DR. L.J. LEECH HOUSE (HS-5)

Type

A1 residential (1975 ASHRAE Standard 90-75)

Intended use by National Park Service: Residence

Description

Existing historic edifice, two-story, with normal windows and doors. House has a full basement with enclosed crawl space under front porch. The loads were figured based on single-glazed windows with storm sash throughout, one-half of the walls with 3-1/2-inch loose insulation and 4-inch insulation in the attic.

Criteria from 1975 ASHRAE Standard for Locale

Winter design dry-bulb - 72° F., -4° F.

Summer design dry-bulb - 91° F.; wet-bulb 77° F.

Degree days heating - 6,588

Cooling hours - 800

Degrees north latitude - 40

Existing gross floor area (excluding attic) - 2,263.5 sq.ft.

Existing gross volume (excluding attic) - 19,008 cu.ft.

Combined gross exposed wall area - 2,022 sq.ft.

Percentage of openings - 12.5

Existing combined wall transmittance - $U^\circ - .27$ Btu/sq.ft./hr./F.

Combined gross exposed roof/ceiling area (no openings) - 1,167 sq.ft.

Existing roof/ceiling transmittance - U° - 0.21 Btu/sq.ft./hr./F.

Existing area over crawl space - 140 sq.ft.

Existing floor over crawl space transmittance - U° - .115 Btu/sq.ft./hr./F.

Requirements From Charts, ASHRAE 90-75

U° walls - - - - - 0.21 Btu/sq.ft./hr./F.

U° roof/ceilings - - - - - 0.05 Btu/sq.ft./hr./F.

U° floor over unheated spaces - - - - - 0.08 Btu/sq.ft./hr./F.

Logical Procedures to Make This Building More Energy Efficient

Blow in mineral wool or fiberglass insulation in sloped roof spaces (3 1/2 inches) and provide a total of 8-inch mineral wool or fiberglass insulation on flat roof area, overall U° - .064. This does not meet ASHRAE requirements, but because of the large area of sloped roofs more insulation cannot be easily added. However, the new factor will result in savings of more than 20 percent.

Add 1-inch Styrofoam around perimeter of crawl space, resulting in a U° of .078 Btu/sq.ft./hr./F.

LABAN MILES HOUSE (HS-6)

Type

A1 residential (1975 ASHRAE Standard 90-75)

Intended use by National Park Service: Offices for the Historic Site Interpretation Division

Description

Existing historic edifice, two-story, with normal windows and doors. House has new foundation with full basement. The loads were figured based on single-glazed windows with storm sash (except basement).

Criteria from 1975 ASHRAE Standard for Locale

Winter design dry-bulb - 72° F., -4° F.

Summer design dry-bulb - 91° F., wet-bulb 77° F.

Degree days heating - 6,588

Cooling hours - 800

Degrees north latitude - 40

Existing gross floor area (excluding attic) - 2,636.9 sq.ft.

Existing gross volume (excluding attic) - 21,021 cu.ft.

Combined gross exposed wall area - 3,096 sq.ft.

Percentage of openings - 13.5

Existing combined wall transmittance - U° - 0.34 Btu/sq.ft./hr./F.

Combined gross exposed roof/ceiling area (no openings) - 1,155 sq.ft.

Existing roof/ceiling transmittance - U° - .256 Btu/sq.ft./hr./F.

Requirements from Charts, ASHRAE 90-75

U° walls - - - - - 0.21 Btu/sq.ft./hr./F.

U° roof/ceiling - - - - - 0.05 Btu/sq.ft./hr./F.

Logical Procedures to Make this Building More Energy Efficient

Install 3-1/2-inch R-11 fiberglass batt insulation in all above-grade stud walls and add 3/4-inch Styrofoam insulation to the basement walls, giving an overall U° of 0.178 Btu/sq.ft./hr./F.

Install R-19 fiberglass batt insulation in attic floor giving U° of 0.043 Btu/sq.ft./hr./F.

AMANDA GARVIN HOUSE (HS-7)

Type

A1 residential (1975 ASHRAE Standard 90-75)

Intended use by National Park Service: Offices and curatorial storage space.

Description

Existing historic edifice, two-story, with minimal windows and doors. House has a new foundation and partial basement. The loads were

Sloped second-floor ceiling has 2x4 framing; apply R-11 fiberglass batts and install R-22 type fiberglass batt insulation to all horizontal portions, giving U° of .048 Btu/sq.ft./hr./F.

C.E. SMITH HOUSE (HS-8)

Type

A1 residential (1975 ASHRAE Standard 90-75)

Intended use by National Park Service: Residence

Description

Existing historic edifice, two-story, with minimal windows and doors. House has new foundation and full basement. The loads were figured based on single-glazed windows with storm sash. Complete removal of existing lath and plaster and replacement using gypsum lath and plaster anticipated.

Criteria from 1975 ASHRAE Standard for Locale

Winter design dry-bulb - 72° F., -4° F.

Summer design dry-bulb - 91° F., wet-bulb 77° F.

Degree days heating - 6,588

Cooling hours - 800

Degrees north latitude - 40

Gross floor area - 2,360 sq.ft., basement - 872 sq.ft.

Gross volume (excluding attic) - 20,135 cu.ft., basement - 6,975 cu.ft.

Combined gross exposed wall area - 2,610 sq.ft.

Percentage of openings - 9.8

Existing combined wall transmittance - U° - 0.318 Btu/sq.ft./hr./F.

Gross exposed roof/ceiling area (no openings) - 965 sq.ft.

Existing combined roof/ceiling transmittance - U° - 0.294 Btu/sq.ft./hr./F.

figured based on single-glazed windows with storm sash, 1 inch Styrofoam insulation around perimeter of crawl space. Complete removal of existing lath and plaster and replacement using gypsum lath and plaster anticipated.

Criteria from 1975 ASHRAE Standard for Locale

Winter design dry-bulb - 72° F., -4° F.

Summer design dry-bulb - 91° F., wet-bulb 77° F.

Degree days heating - 6,588

Cooling hours - 800

Degrees north latitude - 40

Gross floor area - 887 sq.ft., basement - 155 sq.ft.

Gross volume (excluding attic) - 6,948 cu.ft., basement - 1,240 cu.ft.

Combined gross exposed wall area - 1,742 sq.ft.

Percentage of openings - 12.1

Existing combined wall transmittance - U° - 0.292 Btu/sq.ft./hr./F. (14.6% x 0.28 x 73.2% x .23 x 12.2% x .68). Includes existing storm windows and below-grade basement walls

Gross exposed roof/ceiling area (no openings) - 707 sq.ft.

Existing combined roof/ceiling transmittance - U° - 0.256 Btu/sq.ft./hr./F.

Existing floor over crawl space transmittance - U° - 0.058 Btu/sq.ft./hr./F.

Requirments From Charts, ASHRAE 90-75

U° walls - - - - - 0.21 Btu/sq.ft./hr./F.

U° roof/ceiling - - - - - 0.05 Btu/sq.ft./hr./F.

U° floors over unheated spaces - - 0.08 Btu/sq.ft./hr./F.

Logical Procedures to Make This Building More Energy Efficient

Install R-11 fiberglass batt insulation in cavities at all exterior stud walls giving U° of .176 Btu/sq.ft./hr./F.

Requirments From Charts, ASHRAE 90-75

U° walls - - - - -	0.21 Btu/sq.ft./hr./F.
U° roof/ceiling - - - - -	0.05 Btu/sq.ft./hr./F.
U° floors over unheated spaces - -	0.08 Btu/sq.ft./hr./F.

Logical Procedures to Make This Building More Energy Efficient

Install R-11 fiberglass batt insulation in cavities at all exterior stud walls, giving U° of 0.213 Btu/sq.ft./hr./F.

Sloped second-floor ceiling has 2- by 4-inch framing; apply R-11 fiberglass batts and install R-22 fiberglass batts to all horizontal portions giving Uo of 0.072 Btu/sq.ft./hr./F.

If better transmittances are desired, basement walls should be insulated, and ceiling resistance should be increased.

JAMES STAPLES HOUSE (HS-9)

Type

A1 residential (1975 ASHRAE Standard 90-75)

Intended use by National Park Service: Residence

Description

Existing historic edifice, two-story, with normal windows and doors. House has full basement under main portion of house and crawl space under west additions. The loads were figured based on single-glazed windows with storm sash, storm doors, 3-1/2-inch insulation in one-half of the walls and 3-inch insulation in the attic.

Criteria from 1975 ASHRAE Standard for Locale

Winter design dry-bulb - 72° F., -4° F.

Summer design dry-bulb - 91° F., wet-bulb 77° F.

Degree days heating - 6,588

Cooling hours - 800

Degrees north latitude - 40

Existing gross floor area (excluding attic and porch) - 1,965 sq.ft.

Existing gross volume (excluding attic and porch) - 17,222 cu.ft.

Combined gross exposed wall area - 2,478 sq.ft.

Percentage of openings - 11.8

Existing combined wall transmittance - U° - 0.28 Btu/sq.ft./hr./F.

Combined gross exposed roof/ceiling area (no openings) - 1,050 sq.ft.

Existing roof/ceiling transmittance - U° - .091 Btu/sq.ft./hr./F.

Existing floor over crawl space area - 248 sq.ft.

Existing floor over crawl space transmittance - U° - 0.21 Btu/sq.ft./hr./F.

Requirments From Charts, ASHRAE 90-75

U° walls - - - - - 0.21 Btu/sq.ft./hr./F.

U° roof/ceiling - - - - - 0.05 Btu/sq.ft./hr./F.

U° floors over crawl space - - - - - 0.08 Btu/sq.ft./hr./F.

Logical Procedures to Make This Building More Energy Efficient

Blow in mineral wool or fiberglass insulation in sloped roof spaces (3-1/2 inches) and provide additional mineral wool or fiberglass insulation to total 8 inches on flat ceilings. Overall U° of .0336 Btu/sq.ft./hr./F.

Add 2-inch Styrofoam beneath floor over crawl space resulting in a U° of .078 Btu/sq.ft./hr./F.

E.S. HAYHURST HOUSE (HS-10)

Type

A1 residential (1975 ASHRAE Standard 90-75)

Intended use by National Park Service: Residence

Description

Existing historic edifice, two-story, with normal windows and doors. House has a small basement; most of the first-floor area is over a crawl space. The loads were figured based on single-glazed windows with storm sash, 3-1/2- inch loose insulation in one-half the walls and 3-inch insulation in the attic.

Criteria from 1975 ASHRAE Standard for Locale

Winter design dry-bulb - 72° F., -4° F.

Summer design dry-bulb - 91° F., wet-bulb 77° F.

Degree days heating - 6,588

Cooling hours - 800

Degrees north latitude - 40

Existing gross floor area (excluding attic, porch, and garage) - 1,687 sq.ft.

Existing gross volume area (excluding attic) - 13,177 cu.ft.

Combined gross exposed wall area - 1,989 sq.ft.

Percentage of openings - 14.6

Existing combined wall transmittance - U° - 0.213 Btu/sq.ft./hr./F.

Combined gross exposed roof/ceiling area (no openings) - 1,058 sq.ft.

Existing roof/ceiling transmittance - U° - .091 Btu/sq.ft./hr./F.

Existing floor area over crawl space - 760 sq.ft.

Existing floor over crawl space transmittance - 0.21 Btu/sq.ft./hr./F.

Requirments From Charts, ASHRAE 90-75

U° walls - - - - - 0.21 Btu/sq.ft./hr./F.

U° roof/ceiling - - - - - 0.05 Btu/sq.ft./hr./F.

U° floors over unheated spaces - - 0.08 Btu/sq.ft./hr./F.

Logical Procedures to Make This Building More Energy Efficient

Install 3 1/2-inch mineral wool or fiberglass insulation in sloped ceilings and 8-inch mineral wool or fiberglass in flat ceilings, giving U° of .0489 Btu/sq.ft./hr./F.

Install 1-inch Styrofoam around perimeter of crawl space, resulting in U° of 0.07 Btu/sq.ft./hr./F.

ISAAC MILES FARMHOUSE (HS-11)

Type

A1 residential (1975 ASHRAE Standard 90-75)

Intended use by National Park Service: Residence

Description

Existing historic edifice, two-story, with normal windows and doors. House has full basement. The loads were figured based on single-glazed windows with storm sash, 3½-inch insulation in one-half the walls and 3-inch insulation in the attic.

Criteria from 1975 ASHRAE Standard for Locale

Winter design dry-bulb - 72° F., -4° F.

Summer design dry-bulb - 91° F., wet-bulb 77° F.

Degree days heating - 6,588

Cooling hours - 800

Degrees north latitude - 40

Existing gross floor area (excluding porch and attic) - 2,247 sq.ft.

Existing gross volume (excluding porch and attic) - 18,605 cu.ft.

Combined gross exposed wall area - 2,364 sq.ft.

Percentage of openings - 11.1

Existing combined wall transmittance - U° - 0.26 Btu/sq.ft./hr./F.

Combined gross exposed roof/ceiling area - 1,146 sq.ft.

Existing roof/ceiling transmittance - U° - .091 Btu/sq.ft./hr./F.

Requirments From Charts, ASHRAE 90-75

U° walls - - - - - 0.21 Btu/sq.ft./hr./F.

U° roof/ceiling - - - - - 0.05 Btu/sq.ft./hr./F.

Logical Procedure to Make This Building More Energy Efficient

Install 3½-inch mineral wool or fiberglass insulation in sloped ceilings and 8-inch mineral wool or fiberglass in flat ceilings, giving U° of .059 Btu/sq.ft./hr./F.

This does not quite meet ASHRAE requirements, but space in sloped roof is limited to 3½-inch insulation and is 80 percent of the total roof area.

DAVID MACKEY HOUSE (HS-18)

Type

A1 residential (1975 ASHRAE Standard 90-75)

Intended use by National Park Service: Residence

Description

Existing historic edifice, two-story, with minimal windows and doors. House has a small basement, and most of the first-floor area is over a crawl space. The loads were figured based on single-glazed windows, and certain elements of concealed construction were assumed (realistically).

Criteria From 1975 ASHRAE Standard for Locale

Winter design dry-bulb - 72° F., -4° F.

Summer design dry-bulb - 91° F., wet-bulb 77° F.

Degree days heating - 6,588

Cooling hours - 800

Degrees north latitude - 40

Gross floor area (excluding basement) - 940 sq.ft.

Gross volume (excluding basement and attic) - 8,140 cu.ft.

Floor area over crawl space (present) - 398 sq.ft.

Combined gross exposed wall area - 1,512 sq.ft.

Percentage of openings - 10.8

Existing combined wall transmittance - U° - 0.353 Btu/sq.ft./hr./F.

Add storms - U° - 0.308

Combined gross exposed roof/ceiling area (no openings) - 606 sq.ft.

Existing combined roof/ceiling transmittance - U° - 0.295
Btu/sq.ft./hr./F.

Existing floor over crawl space transmittance - U° - 0.198
Btu/sq.ft./hr./F.

Requirments From Charts, ASHRAE 90-75

U° walls - - - - - 0.21 Btu/sq.ft./hr./F.

U° roof/ceiling - - - - - 0.05 Btu/sq.ft./hr./F.

U° floors over unheated spaces - - 0.08 Btu/sq.ft./hr./F.

Note: There will be no crawl space remaining.

Logical Procedures to Make This Building More Energy Efficient

Sloped second-floor ceiling has 2- by 4-inch framing; blow in R-11 mineral wool or fiberglass. Install R-22 mineral wool or fiberglass insulation in all horizontal portions, giving U° of 0.072 Btu/sq.ft./hr./F.

WILLIAM WRIGHT HOUSE (HS-19)

Type

A1 residential (1975 ASHRAE Standard 90-75)

Intended use by National Park Service: Residence

Description

Existing historic edifice, two-story, with normal windows and doors. House has full basement under main portion of house, with crawl space under northwest addition. The loads were figured based on single-glazed windows, 3½-inch insulation in half the walls and 3-inch insulation in attic. It is anticipated that several windows and doors will change, and that some areas will be remodeled.

Criteria From 1975 ASHRAE Standard for Locale

Winter design dry-bulb - 72° F., -4° F.

Summer design dry-bulb - 91° F., wet-bulb 77° F.

Degree days heating - 6,588

Cooling hours - 800

Degrees north latitude - 40

Existing gross floor area (excluding porch and attic) - 1,488 sq.ft.

Existing gross volume (excluding porch and attic) - 11,190 cu.ft.

Combined gross exposed wall area - 1,644.5 sq.ft.

Percentage of openings - 12

Existing combined wall transmittance - U° - 0.275 Btu/sq.ft./hr./F.

Combined gross exposed roof/ceiling area - 530 sq.ft.

Existing combined roof/ceiling transmittance - U° - .091 Btu/sq.ft./hr./F.

Area over crawl space - 182 sq.ft.

Floor transmittance - U° - 0.21 Btu/sq.ft./hr./F.

Requirments From Charts, ASHRAE 90-75

U° walls - - - - - 0.21 Btu/sq.ft./hr./F.

U° roof/ceiling - - - - - 0.05 Btu/sq.ft./hr./F.

U° over crawl space - - - - - 0.08 Btu/sq.ft./hr./F.

Logical Procedures to Make This Building More Energy Efficient

Blow in 3½-inch mineral wool or fiberglass insulation in sloped ceilings and 8-inch mineral wool or fiberglass insulation in the flat ceilings, giving U° of 0.53 Btu/sq.ft./hr./F.

Install 1-inch Styrofoam insulation around perimeter of crawl space, giving U° of 0.07 Btu/sq.ft./hr./F.

Remodeling will decrease openings to 10.5 percent of gross wall area, resulting in U° of 0.268 Btu/sq.ft./hr./F.

APPENDIX B: CLASS "A" COST ESTIMATES

The following estimated costs are based upon unit prices assessed to first half of 1981 construction economy, and each amount includes an assumed charge of 10 percent for overhead, 10 percent for profit, and 1 percent for bond.

RELOCATE GAS METERS INTO OUTBUILDINGS IN GROUPS WHERE POSSIBLE. See preliminary design site plan for locations.

HS-4	Hannah Varney	\$2,926	
HS-5	Dr. L.J. Leech	2,100	
HS-6	Laban Miles	<u>924</u>	Group 1 \$ 5,950
HS-7	Amanda Garvin	\$ 924	
HS-8	C.E. Smith	1,162	
HS-18	David Mackey	<u>1,288</u>	Group 2 \$ 3,374
HS-9	James Staples	\$2,100	
HS-10	E.S. Hayhurst	1,050	
HS-19	William Wright	<u>1,512</u>	Group 3 \$ 4,662
HS-2	P.T. Smith		\$ 1,400
HS-11	Isaac Miles		<u>\$ 1,162</u>
		TOTAL COST	\$16,548

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

PACKAGE ESTIMATING DETAIL

REGION	PARK
PACKAGE NUMBER	PACKAGE TITLE

(If more space is needed, use plain paper and attach)

ITEM	1981	1985
P. T. Smith House (HS-2)	\$ 65,314.00	\$ 97,971.00
Hannah Varney House (HS-4)	30,824.00	46,236.00
Dr. L. J. Leech House (HS-5)	10,508.00	15,762.00
Laban Miles House (HS-6)	103,367.00	155,051.00
Amanda Garvin House (HS-7)	53,117.00	79,676.00
C. E. Smith House (HS-8)	67,756.00	101,634.00
James Staples House (HS-9)	35,627.00	53,440.00
E. S. Hayhurst House (HS-10)	55,593.00	83,390.00
Isaac Miles Farmhouse (HS-11)	49,114.00	73,671.00
David Mackey House (HS-18)	48,585.00	72,878.00
William Wright House (HS-19)	<u>20,039.00</u>	<u>30,059.00</u>
TOTAL ESTIMATED COSTS	\$539,844.00	\$809,767.00
RELOCATE GAS METERS	\$ 16,548.00	\$ 24,822.00

NOTE: Detailed unit/cost estimates by A/E are available from D.S.C. Professional Support Estimating Branch files.

THE ABOVE COST ESTIMATE IS VALID THROUGH SEPTEMBER 30, 1985
R. BORRAS/E. NIETO 2/82

SUMMARY OF CONSTRUCTION ESTIMATES		CLASS OF ESTIMATE		
		<input checked="" type="checkbox"/> A Working Drawings	<input type="checkbox"/> B Preliminary Plans	<input type="checkbox"/> C Similar Facilities
Proj. Type		Totals from Above		
		B & U		R & T
52	Museum Exhibits			XXXXX
55	Wayside Exhibits			XXXXX
62	Audio-Visual			XXXXX
89	Ruins Stabilization			XXXXX
91	Construction			
92	Utility Contracts			XXXXX
ESTIMATES APPROVED (Signature)		(title)	(date)	

APPENDIX C: ORIGINAL PAINT COLORS

GENERAL

The physical samples vary in size from 1/4 to 1/2 inch wide, 1/2 to 2 inches long, and 1/16- to 1/4-inch thick. In all instances the samples contain original end grain.

PREPARATION

Each sample was examined under low power magnification to determine the easiest portion for preparation. The paint samples were sanded with fine sandpaper at a low angle to exaggerate the width of the paint layer. On some samples, if the original layer was indistinct, a portion of the wood substrate was removed to expose longitudinal wood fibers embedded in paint.

EXAMINATION

The paint layers were examined under 16X power to distinguish the number of layers and the extent of dirt film buildup between layers. This had two purposes: to carefully determine original finish coat, and to verify that the sequence selected was completed.

The chronology of paint layers, and the thickness of paint or dirt layers, was not determined. However, by examining paint areas that were always protected, changes due to dirt filtering or other atmospheric contamination are minimized.

By using a 16X Anco magnifying glass, the shade was determined by comparing all colors adjacent to the estimated color shade. By process of elimination the closest color was selected.

COLOR REFERENCE

The sample colors were compared to Iowa Paint's Colortrend - Exceptionale, Architect's Color Selection, Iowa Paint Manufacturing Co., Inc., 17th and Grand, Des Moines, Iowa 50309.

Original paint colors for nonextant architectural features (such as window sash, storm windows and doors, screens, shutters, and porch posts and railings) cannot be determined accurately from black-and-white historic photographs, although shades of light and dark values relative to known historic colors can be determined.

Therefore, appropriate colors of similar relative value have been selected from architectural source books of, and referring to, the historic period.* Colors selected in this manner are so designated in the remarks column of the color schedule, which follows.

*Palliser, Palliser & Co., Architects, Palliser's Model Homes (Bridgeport, Connecticut, 1878); Exterior Decoration, Victorian Paint for Victorian Houses, The Athenaeum Library of Nineteenth Century of America, (The Athenaeum of Philadelphia, 1976).

COLOR DETERMINATION - HERBERT HOOVER NATIONAL HISTORIC SITE

<u>House</u>	<u>Number of Paint Samples</u>	<u>Location</u>	<u>Iowa Paint Designation</u>	<u>Remarks</u>
P. T. Smith (HS-2)	6	Clapboards	2-10M	Original
P. T. Smith (HS-2)	6	Tongue-and-groove siding at front porch	2-10M	Note 1 - Hue determination from photographs
P. T. Smith (HS-2)	12	Trim (window, fascia, soffit, cove, molding)	2-19P	Original - Note 2
P. T. Smith (HS-2)	4	Window sash	brown-black	Original
P. T. Smith (HS-2)		Storms, shutters, and storm doors	brown-black	Hue determination from photographs and references ¹
P. T. Smith (HS-2)	3	Porch ceiling	2-10M	Original. Some evidence of paint removal
P. T. Smith (HS-2)		Porch floor	44-24D	Hue determination from photographs
H. Varney (HS-4)	2	Clapboards	4-16M	Original. Note 2
H. Varney (HS-4)	10	Trim, cornice, bottom porch rail, part of columns, and spindle detail at ceiling	57-6U	
H. Varney (HS-4)	15	Top porch rail, balusters, part of columns, and ceiling	4-16M	Original
H. Varney (HS-4)		Porch floor	4-16M	Hue determination from photographs ¹
H. Varney (HS-4)		Window sash, storms, screens, and storm doors	57-6U	Hue determination from photographs ¹
Dr. Leech (HS-5)	2	Clapboards	47-7P or 47-8P	Original
Dr. Leech (HS-5)	2	Window trim and sash	47-7P or 47-8P	Original
Dr. Leech (HS-5)	11	Cornice behind gutter, top and bottom rail of porch, column base, and porch floor	47-5M	Original
Dr. Leech (HS-5)	6	Balusters, soffit, and fascia	47-3M	Original
Dr. Leech (HS-5)	2	Porch ceiling	47-7P	Original - 4-13P may be prime coat
Dr. Leech (HS-5)		Window screens, storms, and storm doors	black	Hue determination from photographs
Dr. Leech (HS-5)		Porch floor	47-5M	Hue determination from photographs

<u>House</u>	<u>Number of Paint Samples</u>	<u>Location</u>	<u>Iowa Paint Designation</u>	<u>Remarks</u>
L. Miles (HS-6)	10	Clapboards	5-10M	Original
L. Miles (HS-6)	21	Accents--window eyebrow, window sash	57-1U	Original - after 1890 photograph
L. Miles (HS-6)		Window sash, screens, storms, and storm doors	57-1U	Hue determination from photographs
L. Miles (HS-6)		Shutters	5-10M	Hue determination from photographs
A. Garvin (HS-7)		Clapboards	4-15M	Original
A. Garvin (HS-7)		Trim	4-15M	Original
A. Garvin (HS-7)	7	Clapboards, large flying brackets of porch, and parts of porch posts	4-15M	Recommended: Colors at time front porch was built, ca. 1888
A. Garvin (HS-7)	10	Cornice work, window trim, corner trim, and porch	57-2U	Ca. 1888
A. Garvin (HS-7)	1	Porch ceiling	44-2P	Ca. 1888
A. Garvin (HS-7)	1	Porch floor	43-23M	Hue determination from photographs
A. Garvin (HS-7)	2	Front door	black	Original
A. Garvin (HS-7)		Window sash, screens, storms	4-15M	Hue determination from photographs
C.E. Smith (HS-8)	2	Clapboards	4-16M	Original
C.E. Smith (HS-8)	14	Trim	4-19P	Original
C.E. Smith (HS-8)	5	Shingles at gable	38-5M	Original
C.E. Smith (HS-8)	5	Porch floor, balusters, and brackets	44-24D	Also this color used for other various trim pieces as shown in 1909 photograph
C.E. Smith (HS-8)	4	Porch ceiling, sash	4-16M	Original
C.E. Smith (HS-8)		Screens and storms	black	Hue determination from photographs
J. Staples (HS-9)	8	Clapboards	4-21M	Original
J. Staples (HS-9)	8	Window trim, corner trim, and eaves	7-23M	Original
J. Staples (HS-9)	2	Window sash	brown/black	Original
J. Staples (HS-9)	1	Window screens, storms, and storm doors	brown/black	Original

House	Number of Paint Samples	Location	Iowa Paint Designation	Remarks
E.S. Hayhurst (HS-10)	11	Clapboards	47-16M	Original
E.S. Hayhurst (HS-10)	13	Window trim and sash, corner trim, soffit, and fascia	57-4U	Original
E.S. Hayhurst (HS-10)	5	Front door	black	Original
E.S. Hayhurst (HS-10)		Window screens, storm windows, and storm doors	57-4U	Hue determination from references ¹
I. Miles Farmhouse (HS-11)	29	Clapboards, trim, soffit, window sash	4-13P	Original
I. Miles Farmhouse (HS-11)	1	Porch ceiling	30-15M	Original
I. Miles Farmhouse (HS-11)		Window screens, storms, and storm doors	black	Hue determination from photographs and references
I. Miles Farmhouse (HS-11)		Porch floor	44-24D	Hue determination from photographs
D. Mackey (HS-18)	14	Clapboards, fascia, corner trim	4-11M	Original
D. Mackey (HS-18)	12	Window eyebrow, window sash, soffit, and soffit trim	56-19U	Original
D. Mackey (HS-18)		Window screens, storms, and storm doors	black	Hue determination from references ¹
W. Wright (HS-19)	10	Clapboards, soffit, and corner trim	4-16M or 4-3M	Original
W. Wright (HS-19)	15	Window sash, screens and trim, door trim, fascia, and storms	brown/black	Original
W. Wright (HS-19)	2	Tongue-and-groove siding at porch	38-5M	Original
W. Wright (HS-19)	1	Porch ceiling	44-1P	Original

Note 1: All samples taken show a few layers of late period paint with evidence of paint removal under, making original color determination impossible.

Note 2: Some of the samples taken show evidence of paint removal under the paint.

APPENDIX D: AERIAL AND PANORAMIC PHOTOGRAPHS, MAPS, AND
RELATED HISTORIC PHOTOGRAPHS

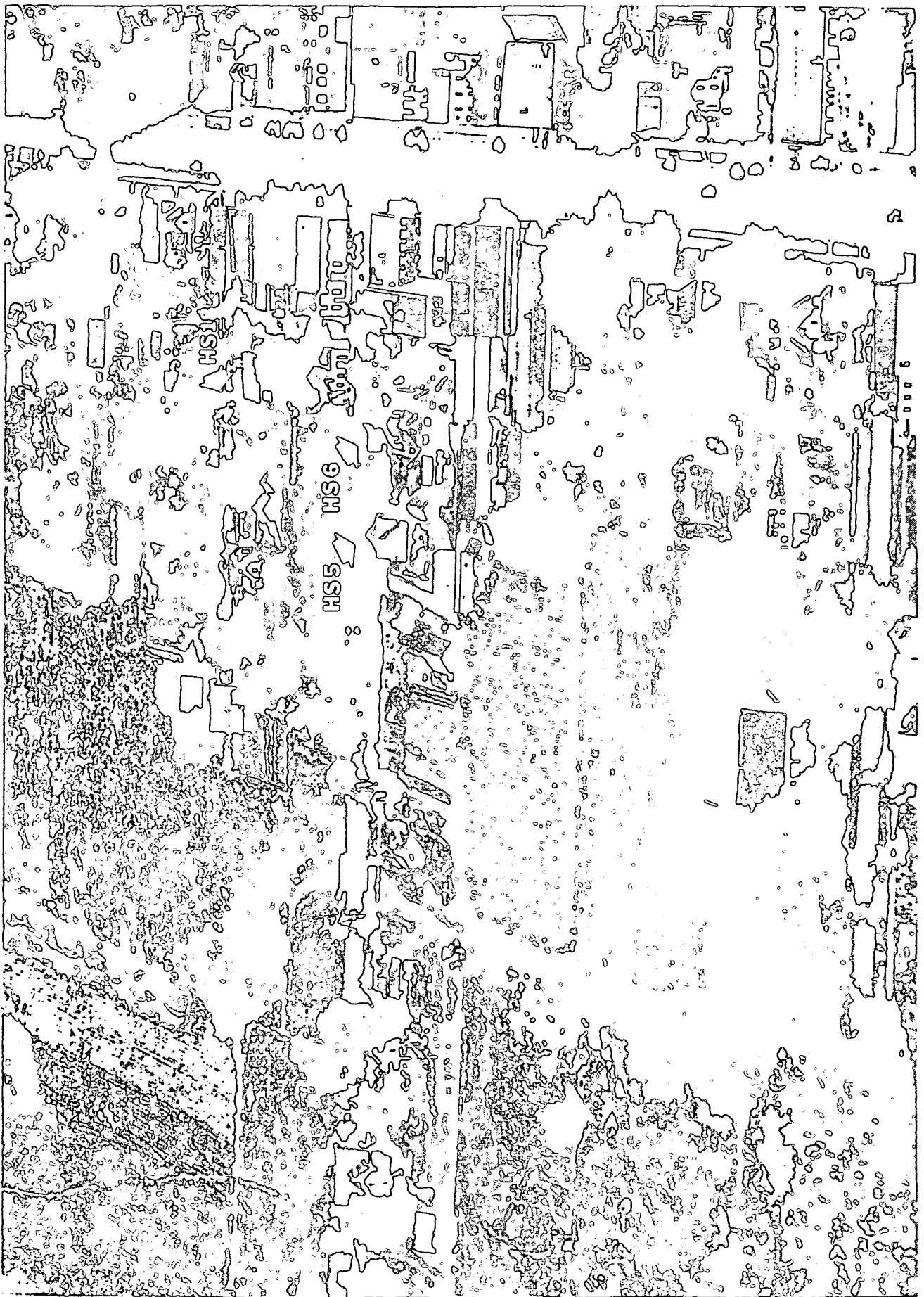
AERIAL AND PANORAMIC PHOTOGRAPHS

This section consists of aerial and panoramic photographs containing historic detail of the historic structures, HS-2 through HS-19.

These photographs show good details of the landscaping and outbuildings of the historic site.

Aerial Photograph 1, 1932. View looking west down Main Street. Downey Street is located just above midpoint of this photograph and runs left to right. This photograph shows the rear (east elevation) of the Mackey house. Note that the roof over the east addition is a lean-to type. The Dr. L.J. Leech and Laban Miles houses also show in detail in this photograph. Note Dr. Leech's barn and the location of his attached garage. The original negative is at the Des Moines Register & Tribune.

Des Moines Register & Tribune, photographer



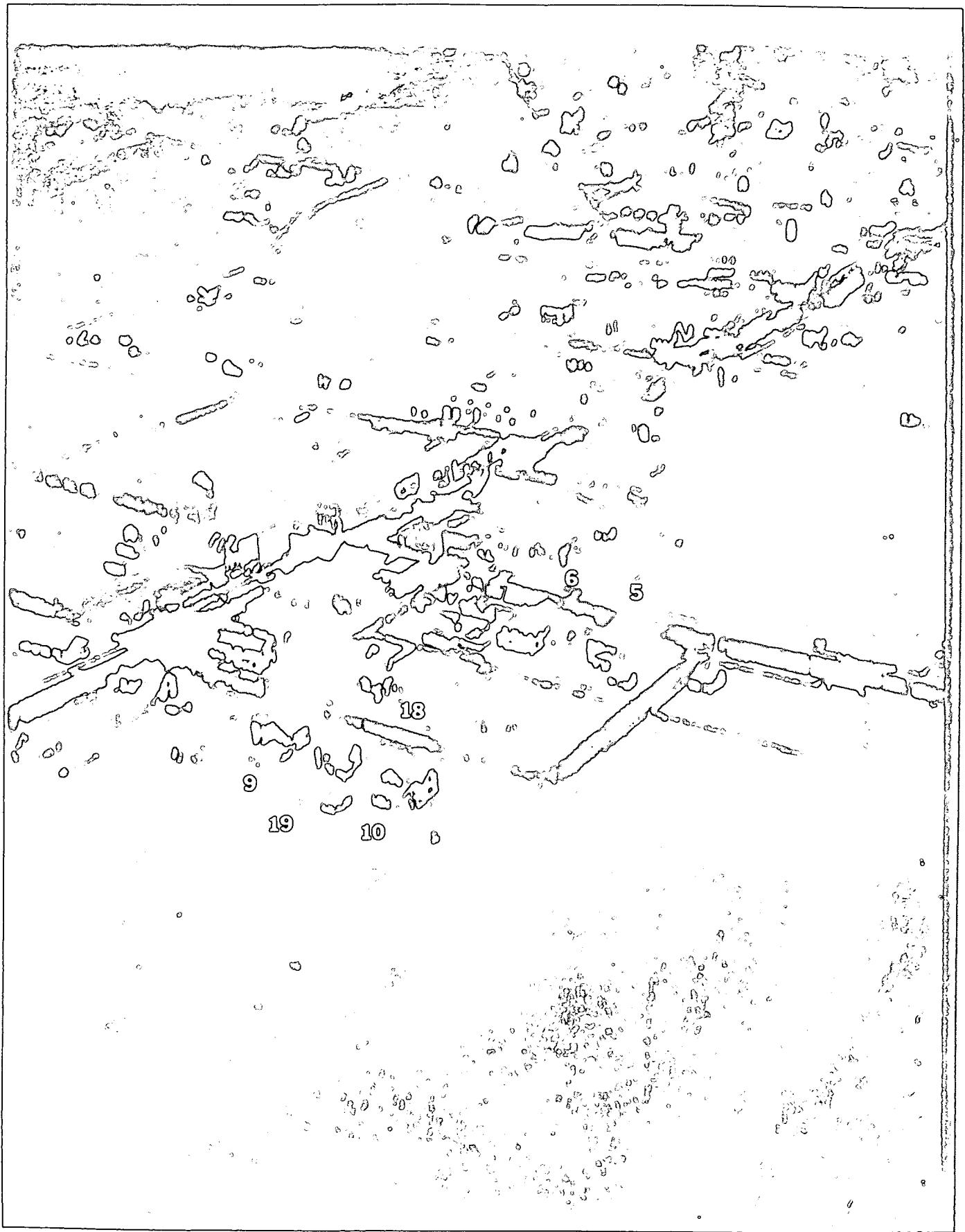
HSU

HS6

HS5

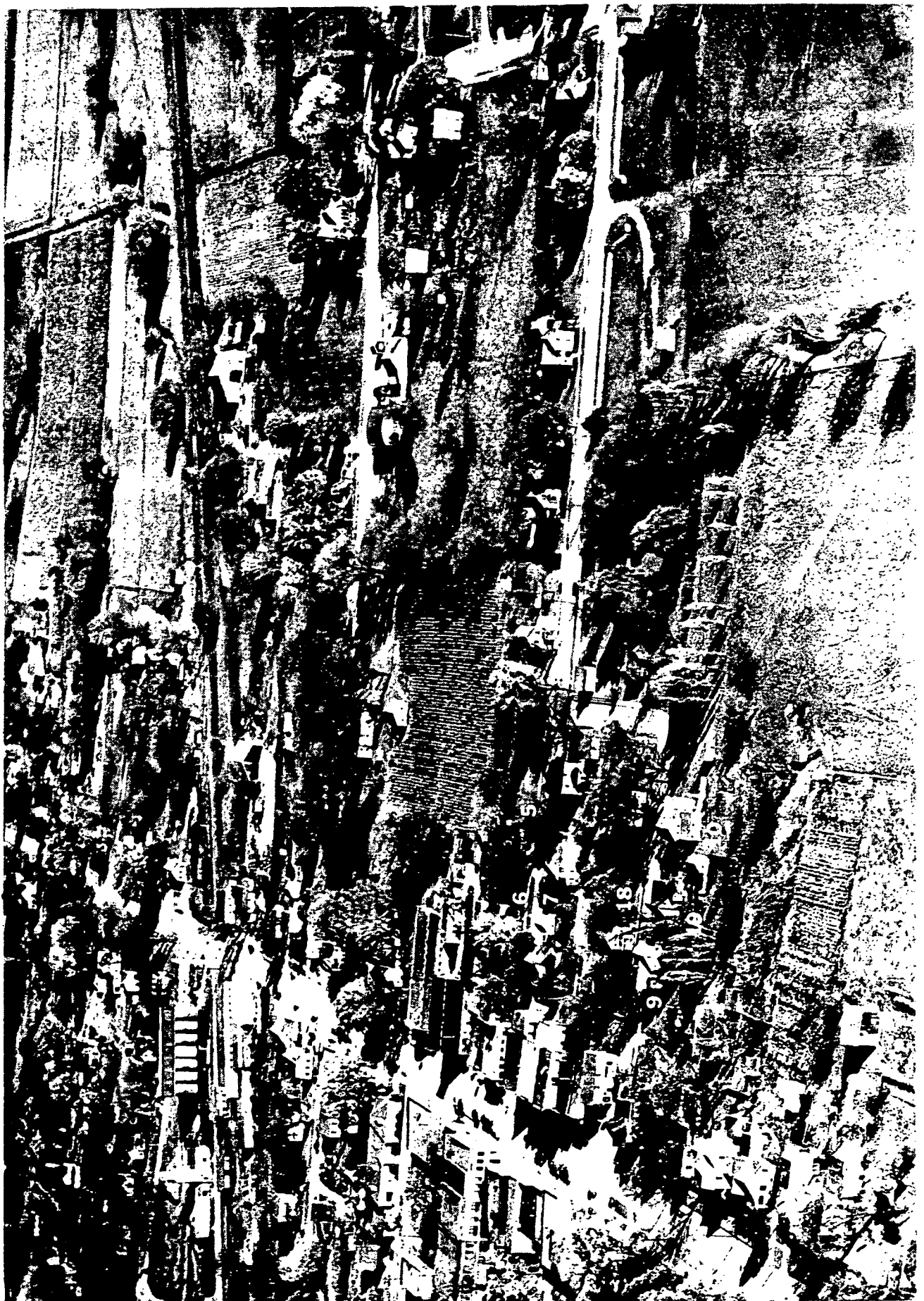
Aerial Photograph 2, 1947. View looking northeast. This photograph shows the southwest elevations of the following houses: HS-5, HS-6, HS-7, HS-9, HS-10, HS-18, and HS-19. The original photograph is with the Jeffrie Brothers, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa.

Photographer unknown



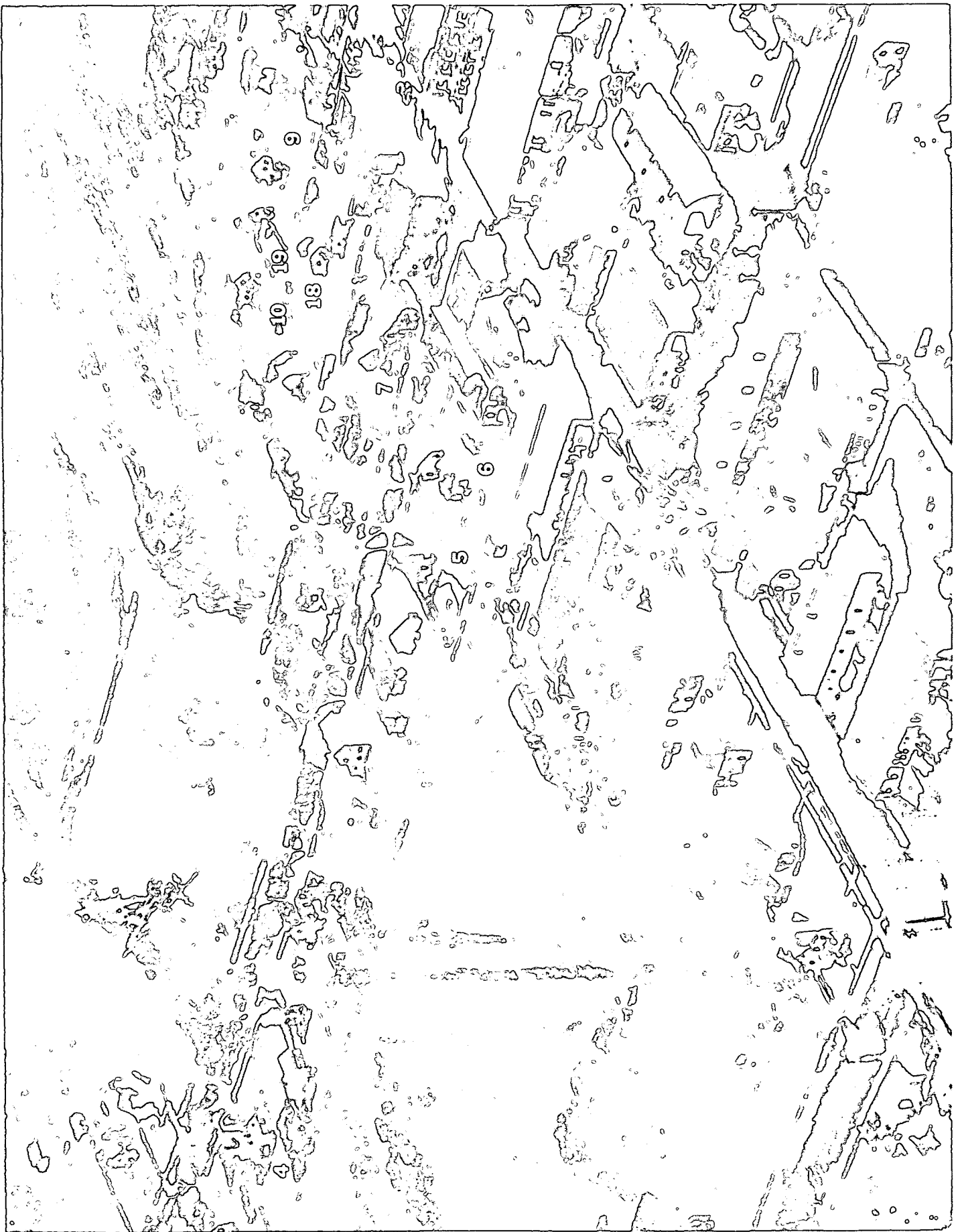
Aerial photograph 3, 1949. View looking west down Main Street. View looking east. This photograph shows the west elevations of the following houses: HS-5, HS-6, HS-7, HS-9, HS-10, HS-18, and HS-19. Note that there were four full columns on the front porch of the David Mackey house, and two separate windows on the west elevation of the original north wing of the Hayhurst house. The original negative is at the Des Moines Register & Tribune, Des Moines, Iowa.

Des Moines Register and Tribune, photograph



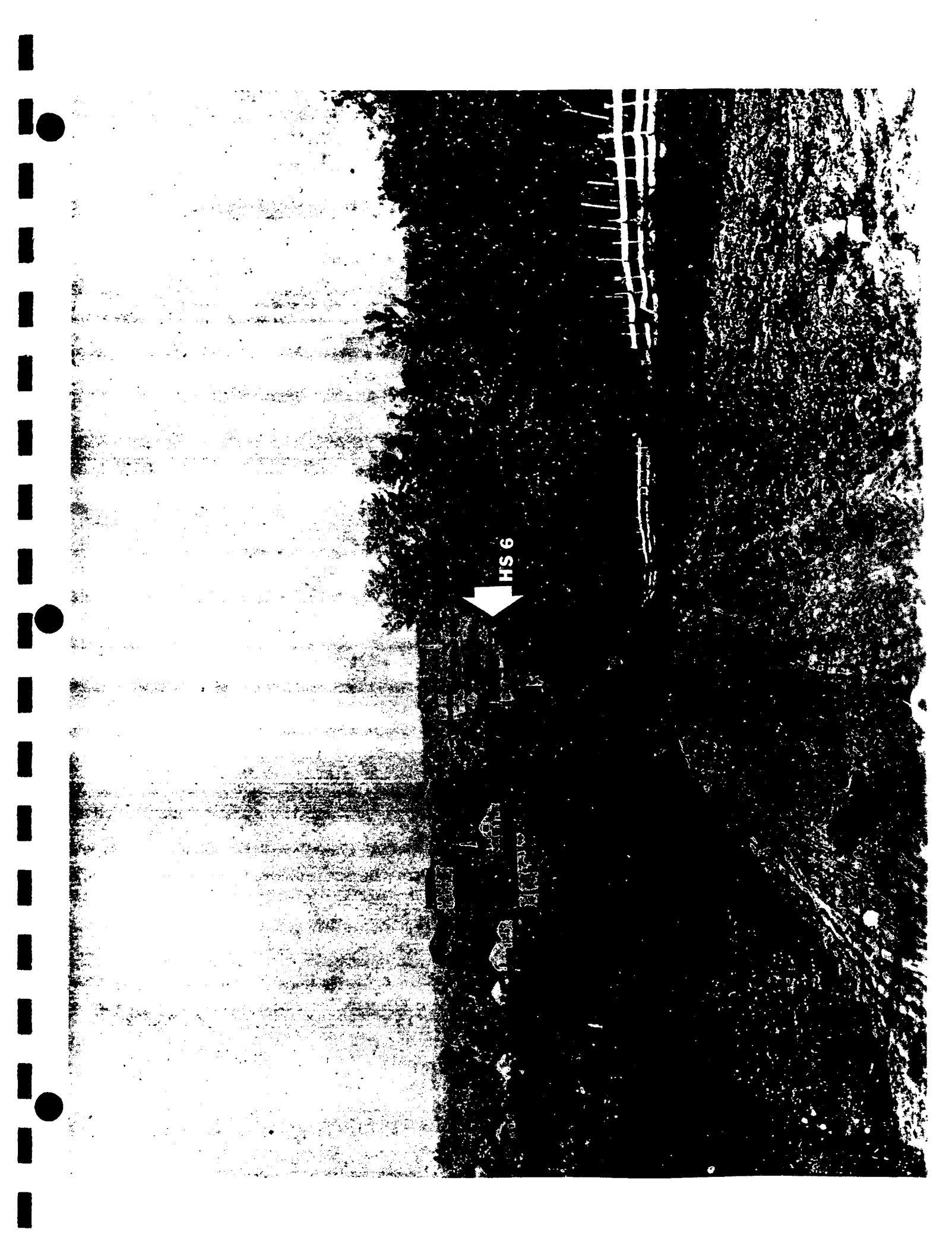
Aerial photograph 4, 1952. View looking southwest. This photograph shows the northeast elevations of the following houses: HS-4 (original location), HS-5, HS-6, HS-7, HS-9, HS-10, HS-18, and HS-19. Note the attached garage with HS-5. The original negative is at the Des Moines Register & Tribune, Des Moines, Iowa.

Photographer unknown



Panoramic Photograph 1, 1878. View looking north on Downey Street. This photograph was taken from Cook's Hill during the historic period. The third house on the east side of Downey Street appears to be the Laban Miles house. The Methodist church shows on the west side of Downey Street. Note that it has a spire on the ridge, which was there from 1870 to mid-1880s. Note the south elevations of the brithplace and the blacksmith shop, which show dark (either dark paint or weathered wood). Note the four-board fence on the east side of Downey Street. The original photograph is with Esther Witmer, Wilton Junction, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa.

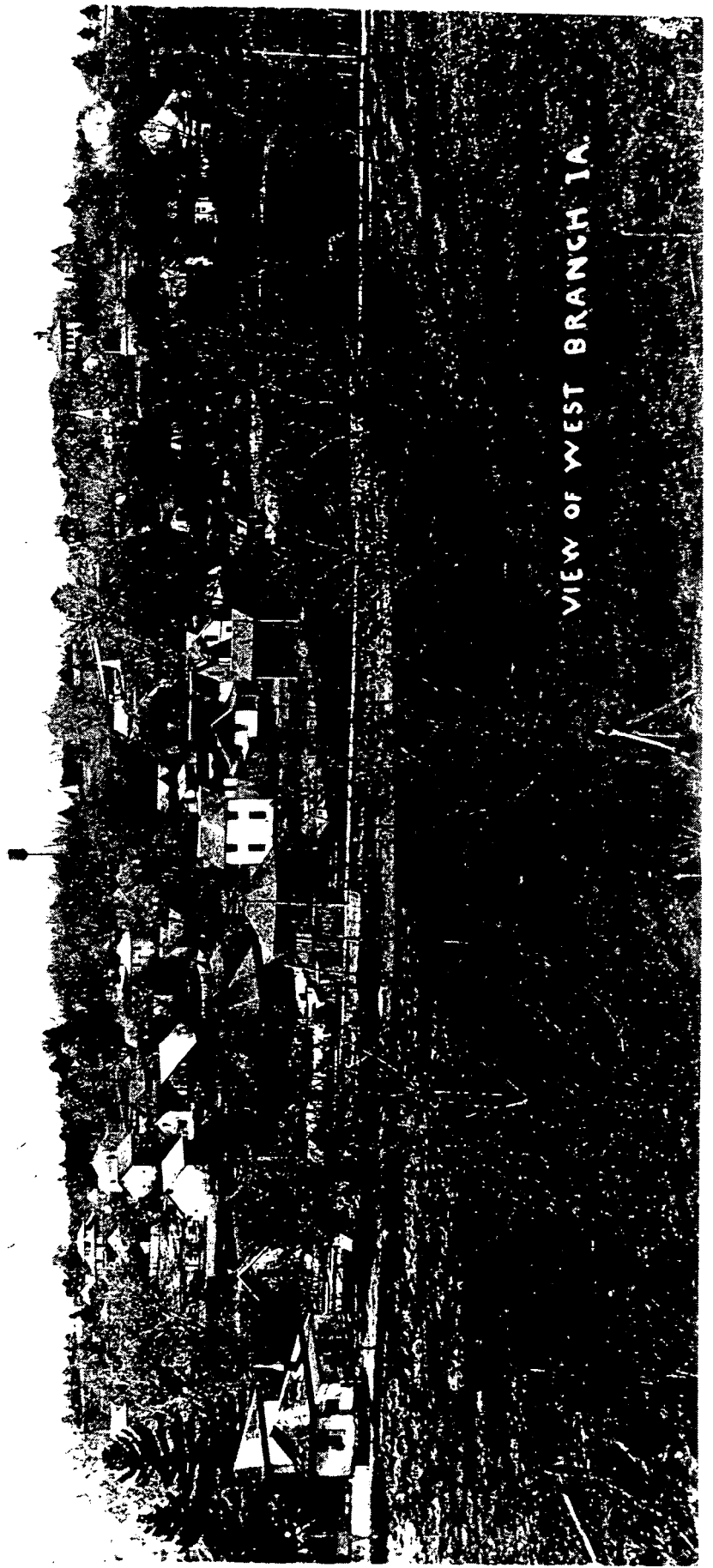
Wm. Miles, photographer



HS 6

Panoramic Photograph 2, 1909. View looking northwest. The panoramic photograph and the six detail photographs (A-F) show the outbuildings, landscape details, fences, and streets, as existed in 1909. The original photograph is with G. Gruwell, Seal Beach, California. A copy of the photograph is at the West Branch Heritage Society, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa.

F.F. Hathaway, photographer

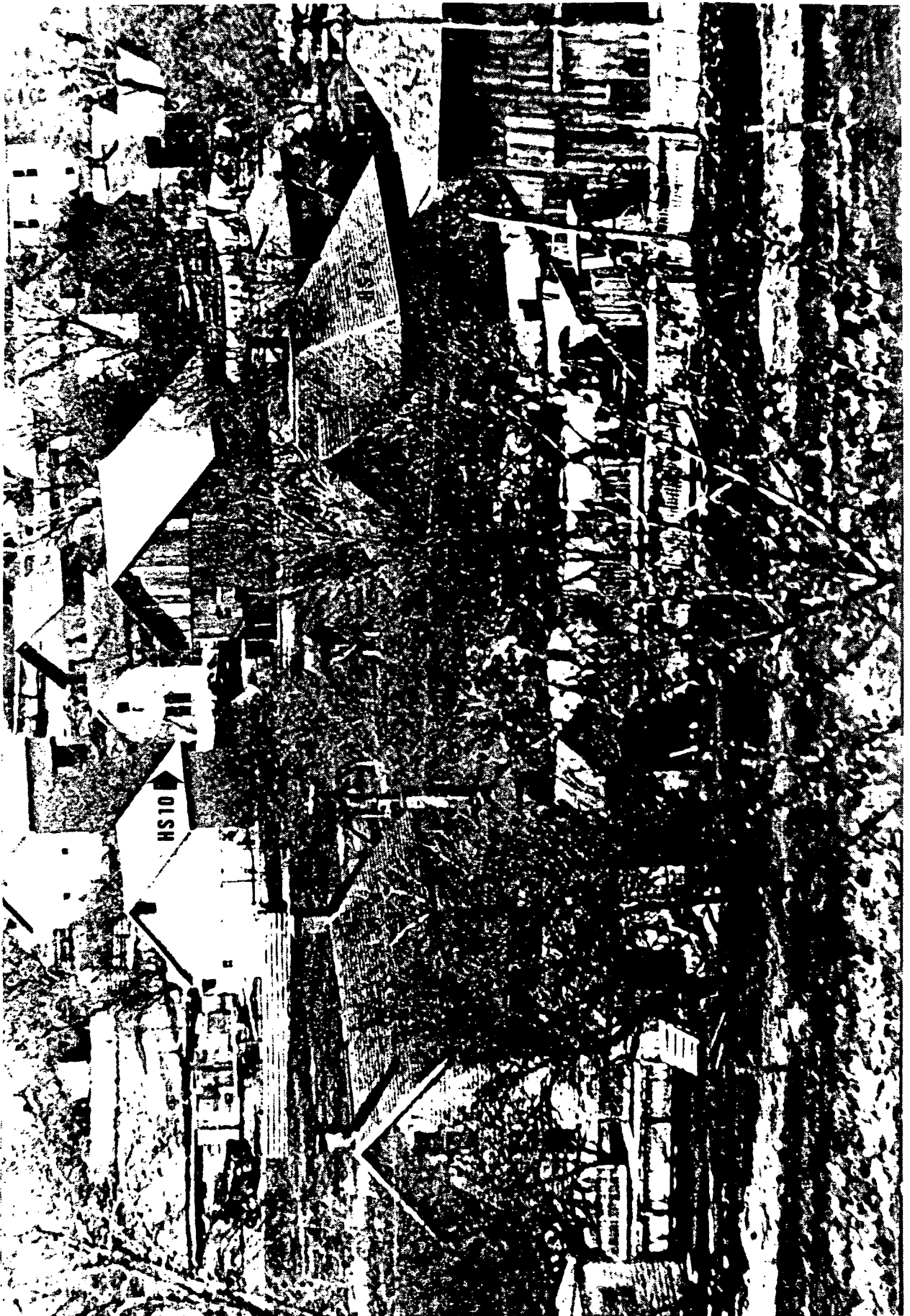


VIEW OF WEST BRANCH IA

Panoramic Photograph 2, Enlargement Detail A. This photograph shows the P.T. Smith house and the second Hoover house.



Panoramic Photograph 2, Enlargement Detail B. This photograph shows the second Hoover house, the Varney house, and the Hayhurst house (between the barns in the upper portion of the photograph).



Panoramic Photograph 2, Enlargement Detail C. This photograph shows the Herbert Hoover birthplace (slightly right of center) with a two-story wing added to the east.



Panoramic Photograph 2, Enlargement Detail D. This photograph shows the Methodist church
(with south wing and tower) and the McClellen house.



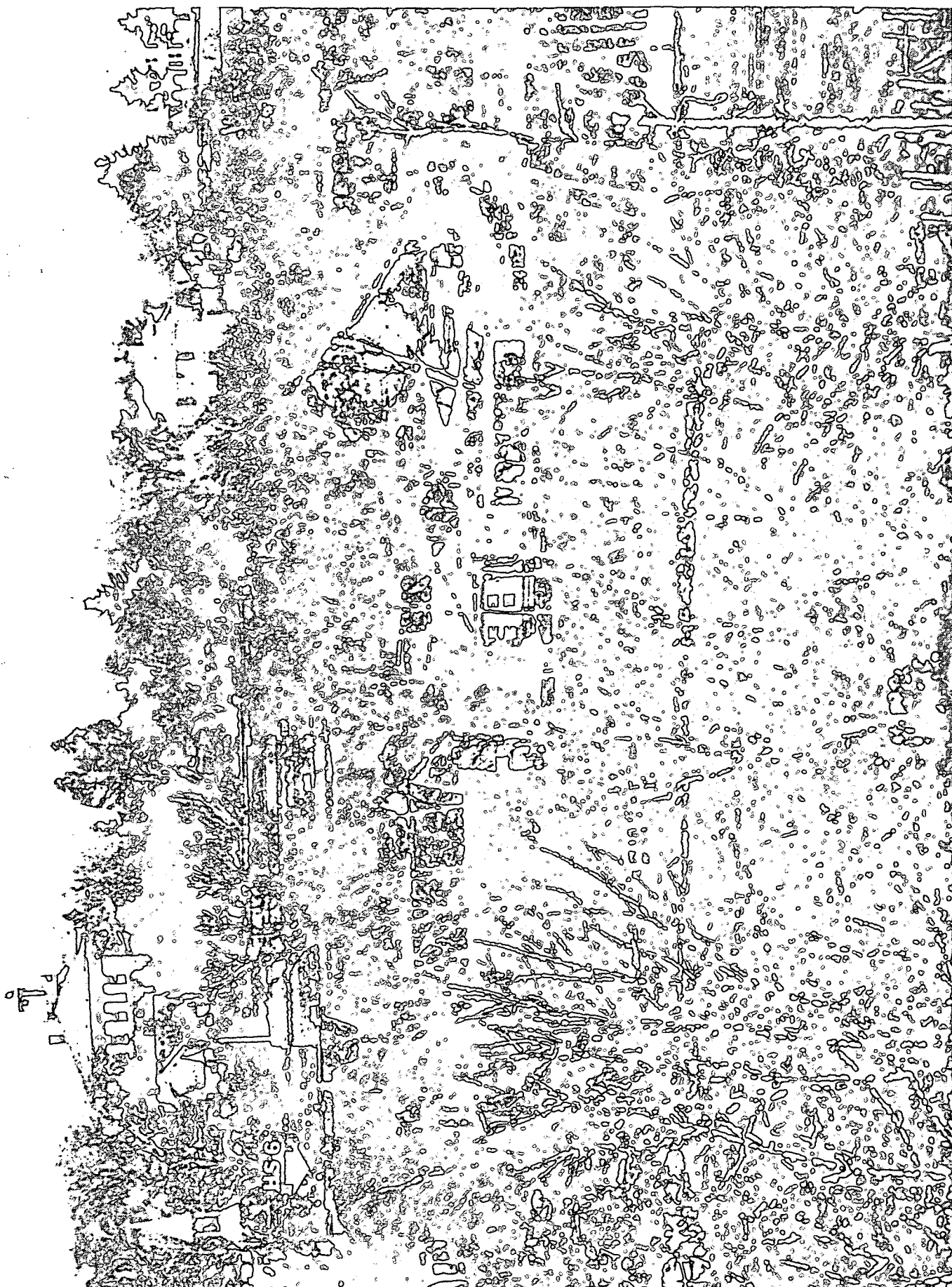


Panoramic Photograph 2, Enlargement Detail E. This photograph shows the Laban Miles house.





Panoramic Photograph 2, Enlargement Detail F. This photograph shows the area to the east of the Laban Miles house. Note the trees along the creek.



MAPS

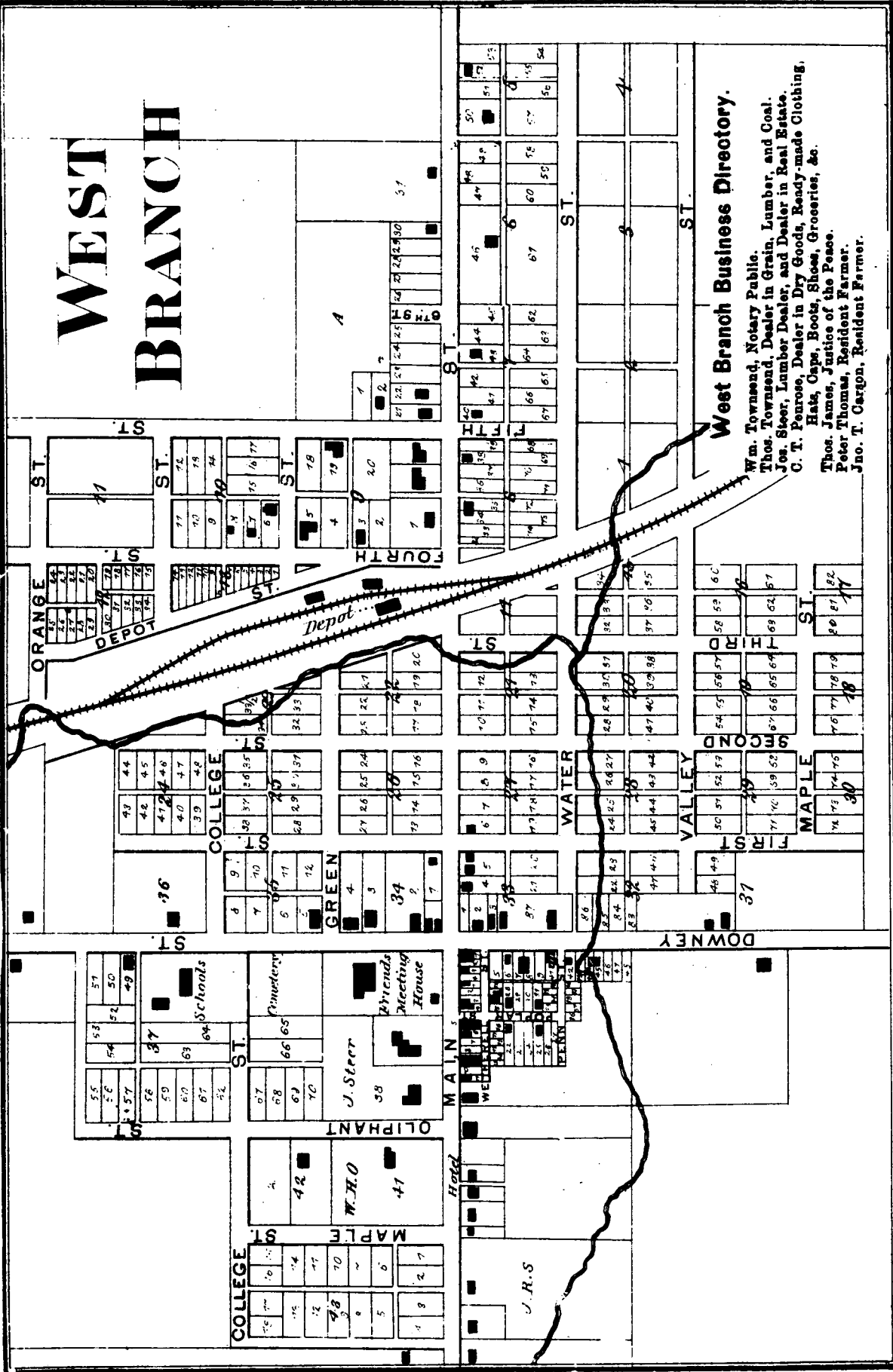
The following historic maps were found during research and pertain to the historic period. They show the locations of all the houses in the historic zone and of miscellaneous outbuildings.

Maps 4 through 8 are Sanborn fire maps that were prepared for insurance companies to help determine fire insurance rates. They show alterations in the plans of houses and outbuildings. The area enclosed on these maps is roughly the historic zone of the town. Houses HS-5, HS-6, HS-7, HS-9, HS-10, HS-18, and HS-19 are shown, as well as the sites for HS-4 and HS-8, which were moved to these lots from their original locations on the east side of Downey Street. These maps are found at the Iowa State Historical Department, Division of the State Historical Society, Iowa City, Iowa, and at the Iowa State University Library, Ames, Iowa.

See the individual text discussions for composite maps for each house. The keys on the maps for 1900, 1906, and 1912 contain information on type of roofing, porches, number of stories, and uses of buildings.

Map 1, Plat of West Branch, 1872. From Harris & Warner's Atlas of Cedar County, Iowa. The original map is at the Iowa State Historical Department, Division of the State Historical Society's Manuscripts Collection, Iowa City, Iowa.

WEST BRANCH

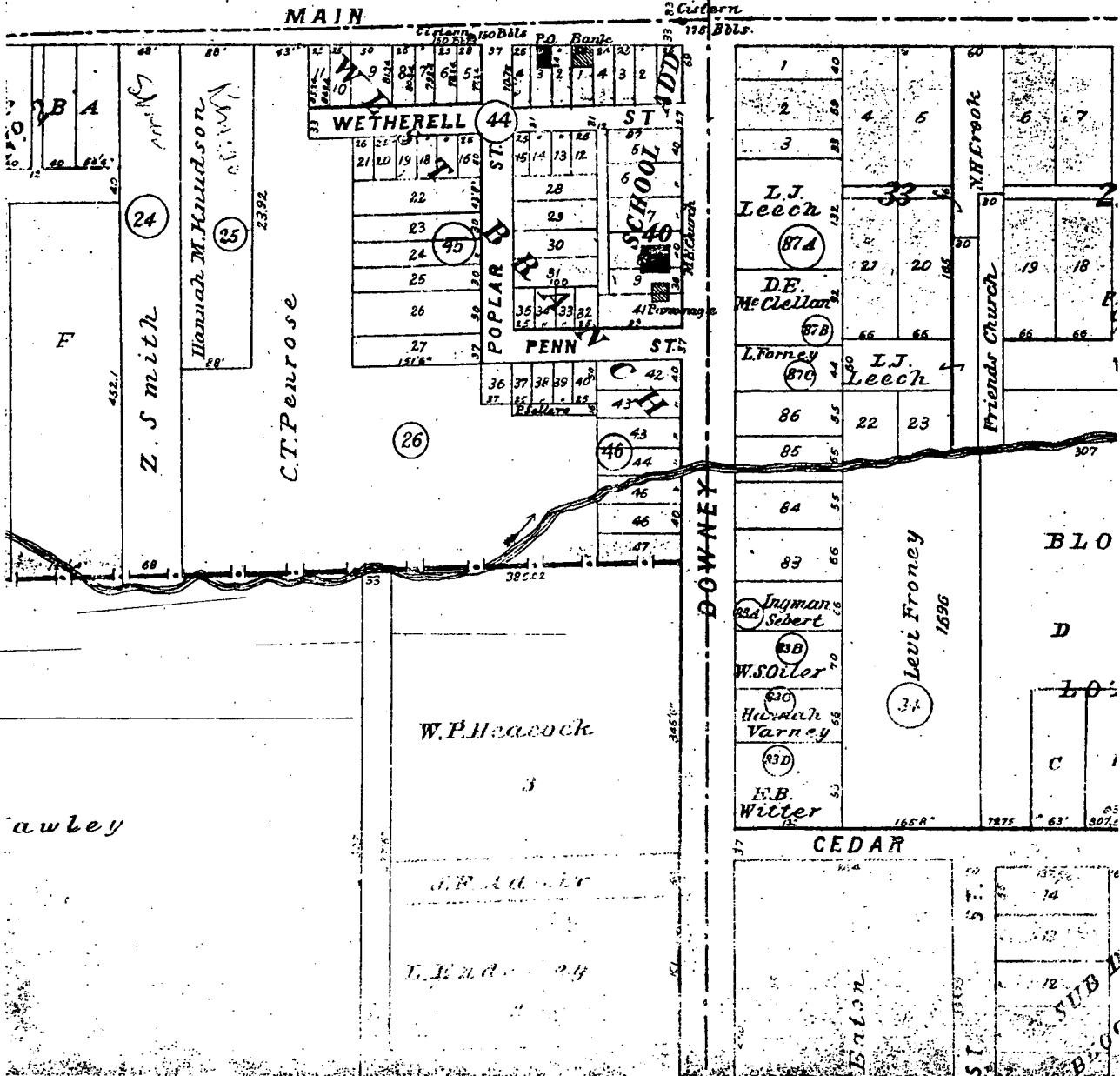
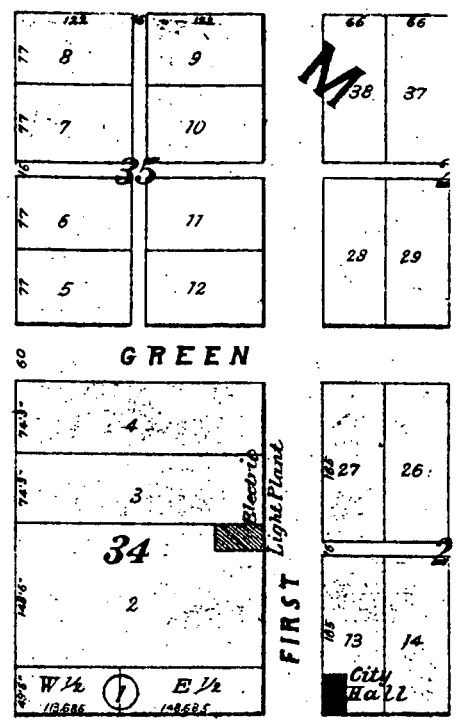
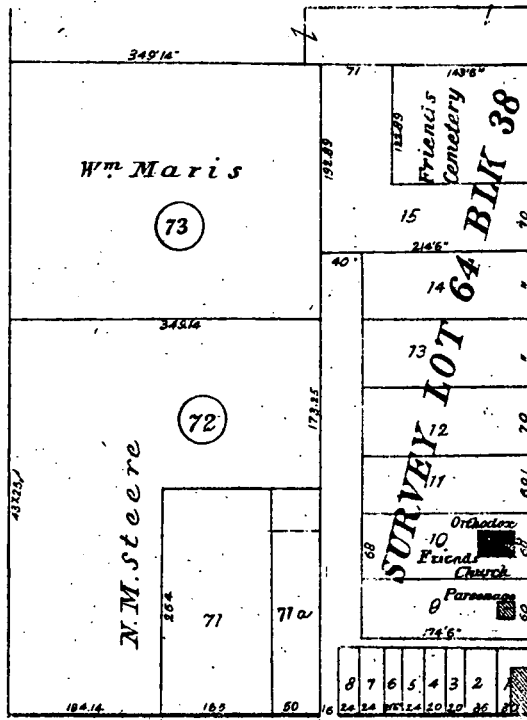
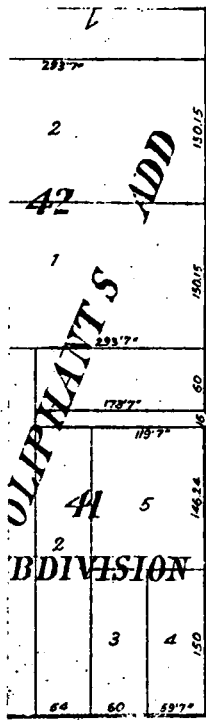


West Branch Business Directory.

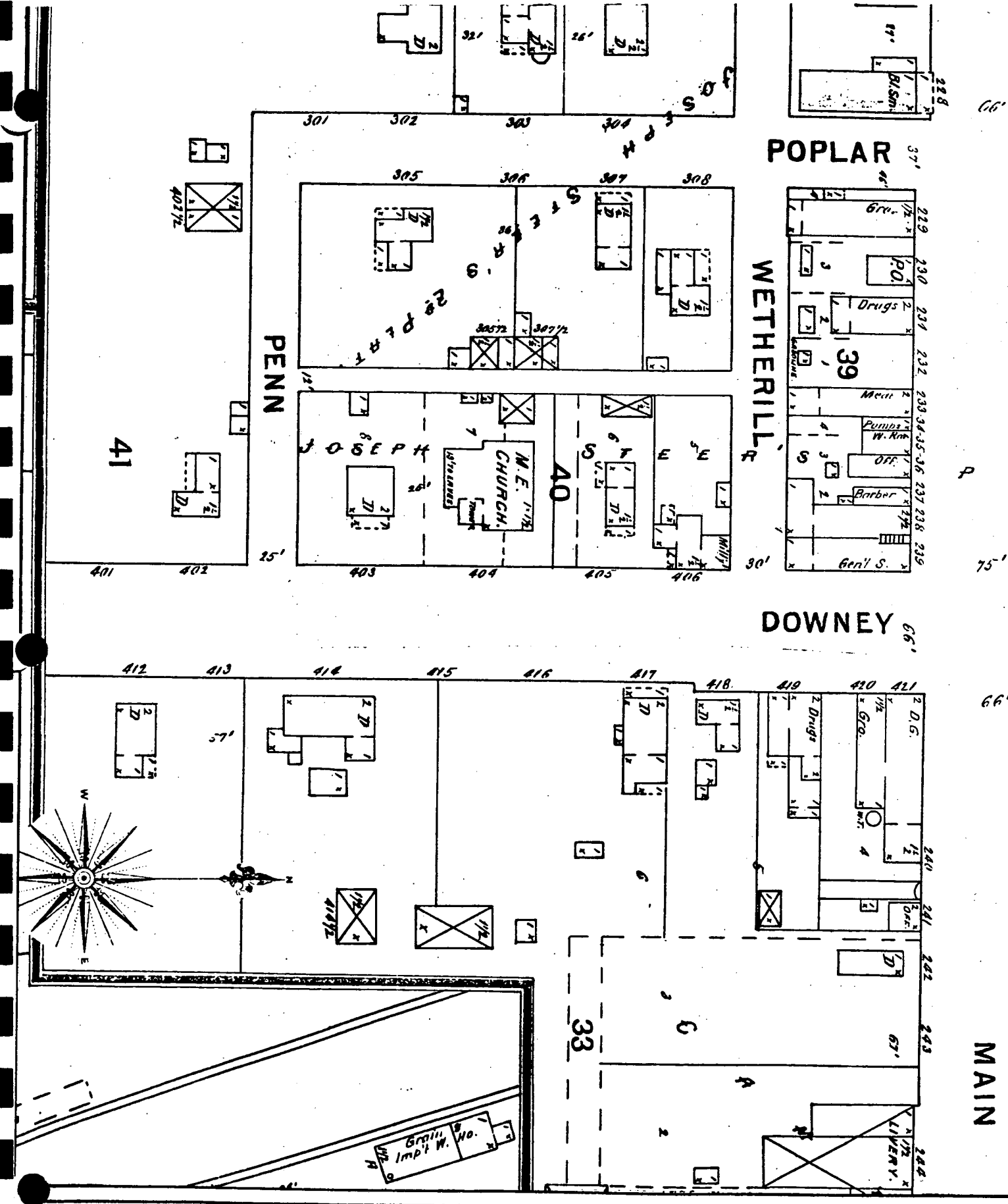
- Wm. Townsend, Notary Public.
- Thos. Townsend, Dealer in Grain, Lumber, and Coal.
- Jos. Steer, Lumber Dealer, and Dealer in Real Estate.
- C. T. Penrose, Dealer in Dry Goods, Ready-made Clothing, Hats, Caps, Boots, Shoes, Groceries, &c.
- Thos. James, Justice of the Peace.
- Peter Thomas, Resident Farmer.
- Jno. T. Cargon, Resident Farmer.

Map 2, Plat of West Branch, 1885. From Harris & Warner's Atlas of Cedar County, Iowa. The original map is at the Iowa State Historical Department, Division of the State Historical Society's Manuscripts Collection, Iowa City, Iowa.

Map 3, Plat of West Branch, 1901. From Harris & Warner's Atlas of Cedar County, Iowa. The original map is at the Iowa State Historical Department, Division of the State Historical Society's Manuscripts Collection, Iowa City, Iowa.



Map 4, Sanborn Fire Map, 1895.

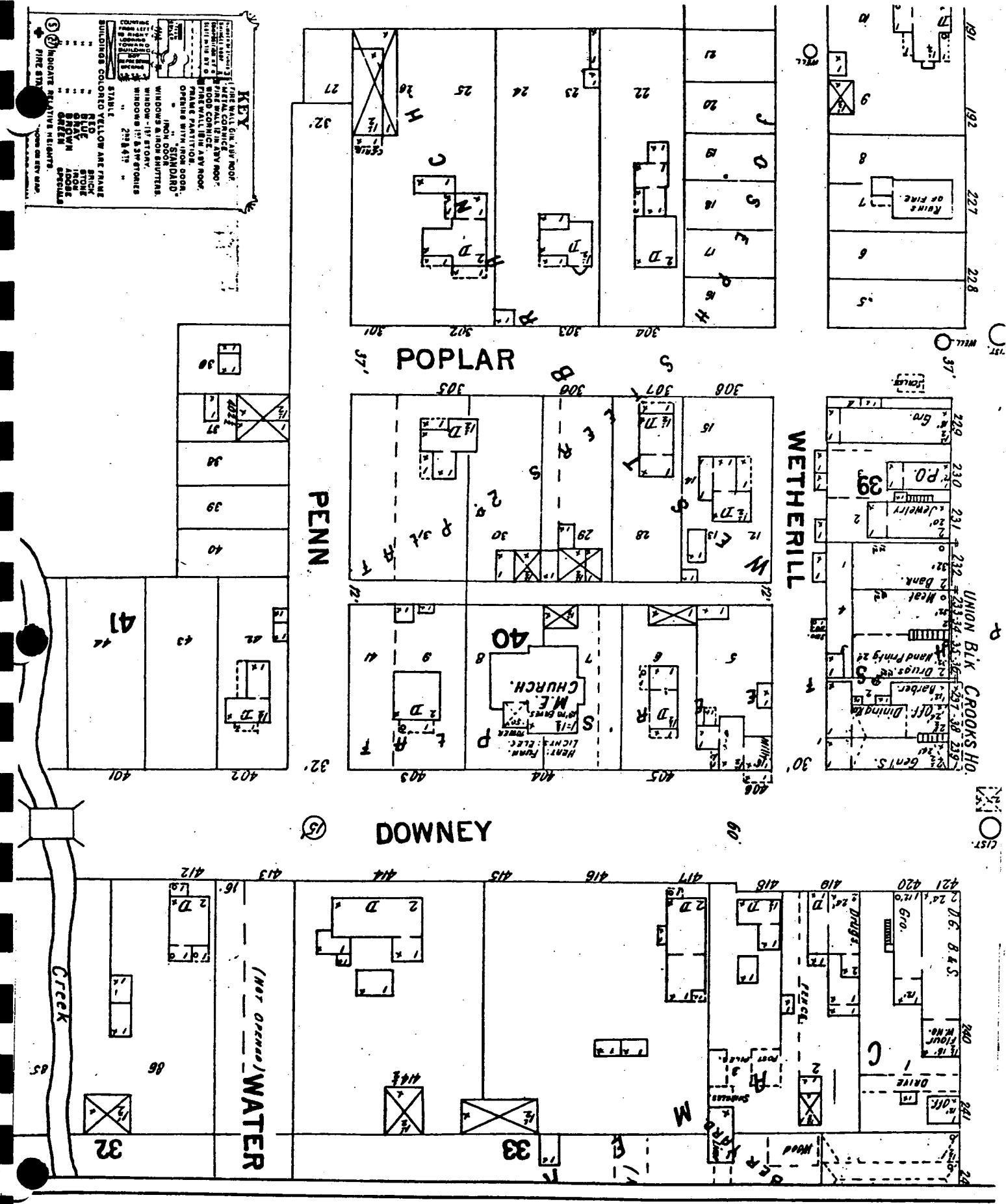


SANBORN MAP 1895
HOOVER HOMESITE, WEST BRANCH, IOWA

Map 5, Sanborn Fire Map, 1900.

SANBORN MAP 1900

HOOVER HOMESITE, WEST BRANCH, IOWA



Map 6, Sanborn Fire Map, 1906.

KEY

INDICATE BUILDINGS COLORED YELLOW AND FRAME SPECIALS

STABLE

GREEN
BROWN
BLUE
BLACK

WINDOWS COLORED YELLOW AND FRAME SPECIALS

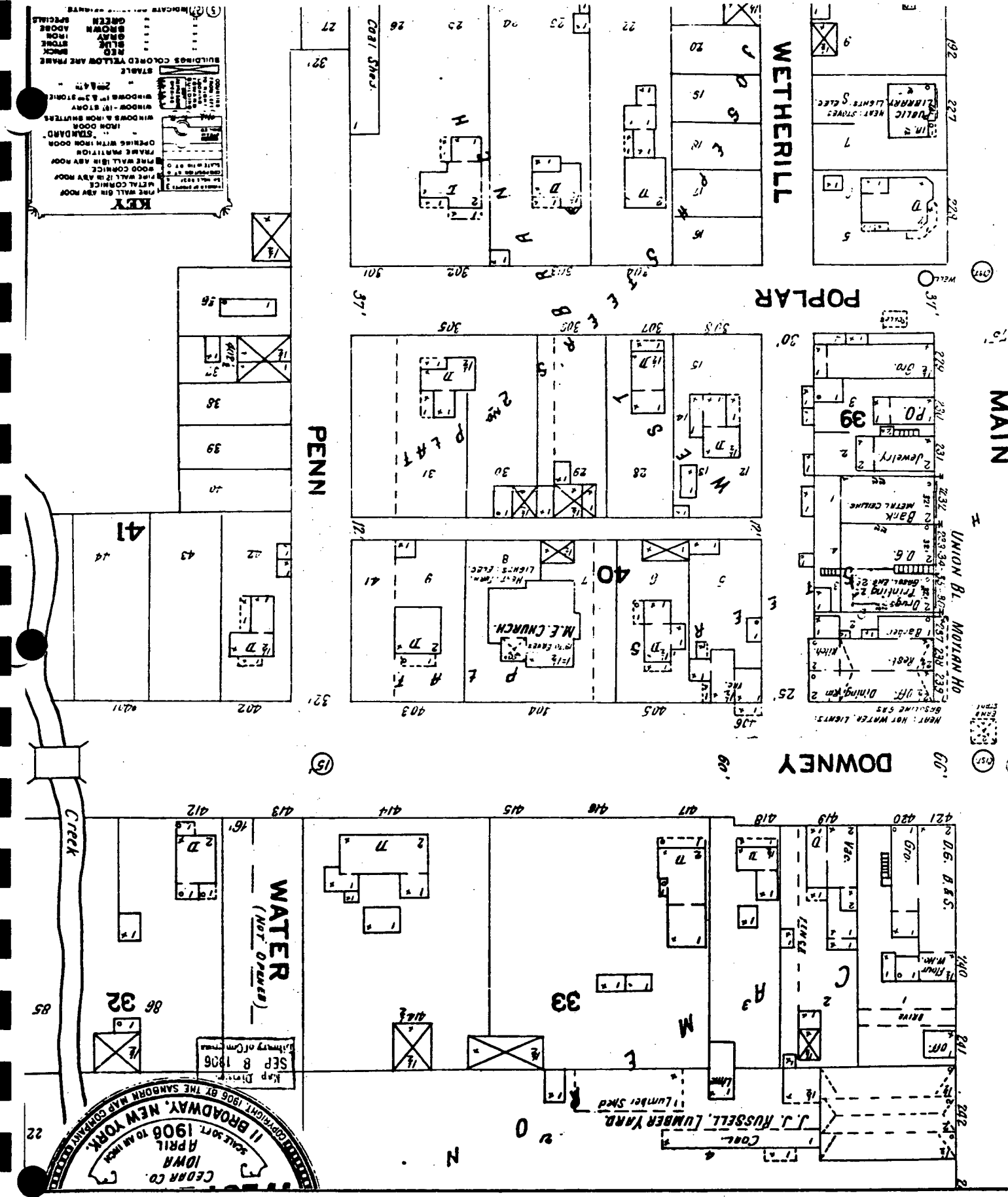
WINDOWS - 10" x 10" STONE
WINDOWS & IRON SHUTTERS
IRON DOOR
STANDARD
FRAME PARTITION
FRAME WALL IN ANY ROOM
WOOD CORNICHE
METAL CORNICHE
FRAME WALL IN ANY ROOM

WELL

WATER

WATER (Not Driven)

CRACK



SANBORN MAP 1906
HOOVER HOMESITE, WEST BRANCH, IOWA

Map 7, Sanborn Fire Map, 1912.

KEY

INDICATE RELATIVE HEIGHTS.
 FIRE STATION, AS SHOWN ON RET. MAP.
 ALTERNATE STREET NUMBERS ARE ACTUAL.
 CONSECUTIVE STREET NUMBERS ARE ARBITRARY.

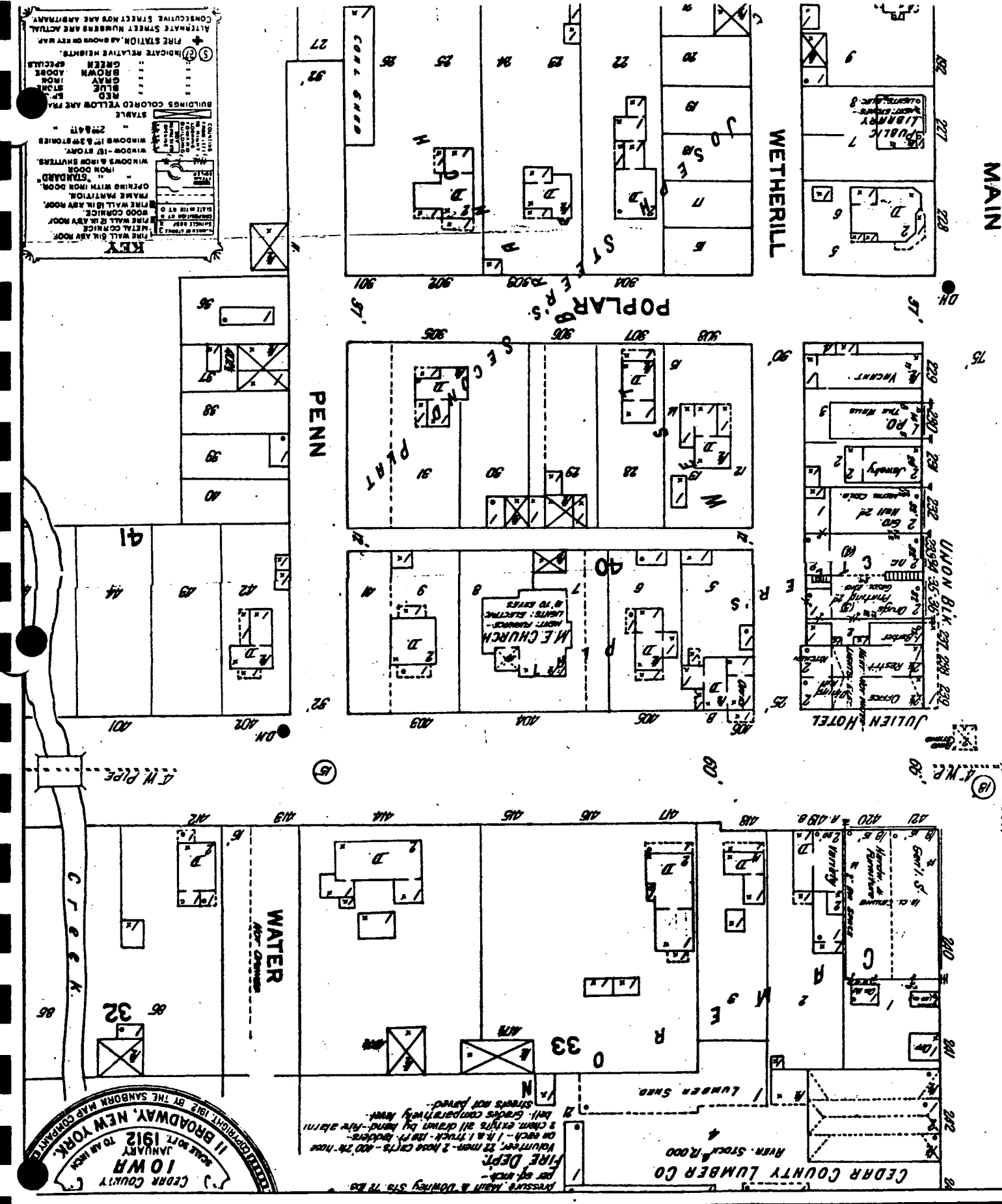
STABLE
 BUILDINGS COLORED YELLOW ARE FRA.
 RED
 BLUE
 STORE
 GREEN
 BROWN
 ABOVE
 SECULAR

INDICATE RELATIVE HEIGHTS.
 FIRE STATION, AS SHOWN ON RET. MAP.
 ALTERNATE STREET NUMBERS ARE ACTUAL.
 CONSECUTIVE STREET NUMBERS ARE ARBITRARY.

STABLE
 BUILDINGS COLORED YELLOW ARE FRA.
 RED
 BLUE
 STORE
 GREEN
 BROWN
 ABOVE
 SECULAR

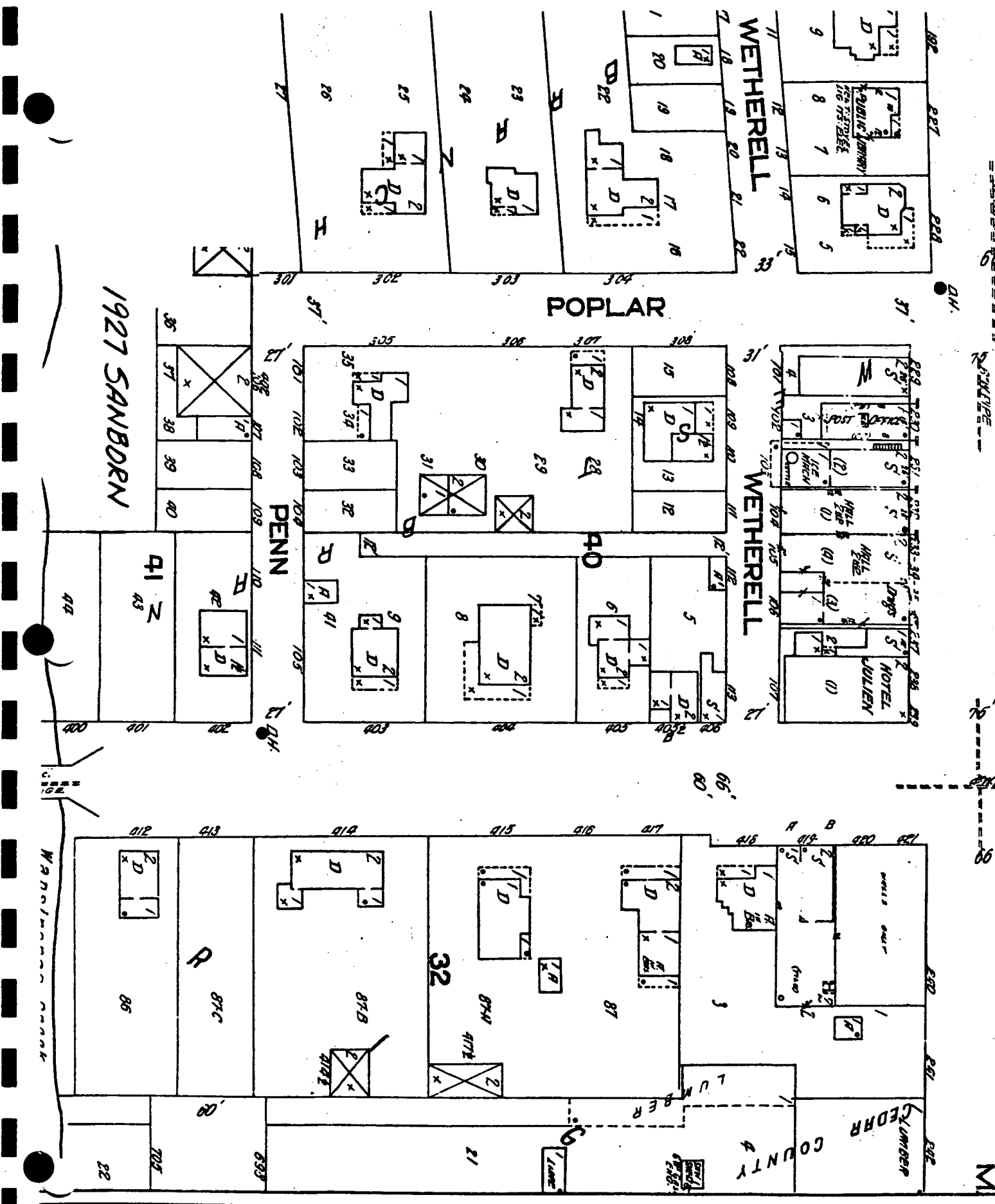
INDICATE RELATIVE HEIGHTS.
 FIRE STATION, AS SHOWN ON RET. MAP.
 ALTERNATE STREET NUMBERS ARE ACTUAL.
 CONSECUTIVE STREET NUMBERS ARE ARBITRARY.

STABLE
 BUILDINGS COLORED YELLOW ARE FRA.
 RED
 BLUE
 STORE
 GREEN
 BROWN
 ABOVE
 SECULAR



SANBORN MAP 1912
HOOVER HOMESITE, WEST BRANCH, IOWA

Map 8, Sanborn Fire Map, 1927.



SANBORN MAP 1927
HOOPER HOMESITE, WEST BRANCH, IOWA

RELATED HISTORIC PHOTOGRAPHS

Many of the original photographs used in the four National Park Service publications ("The Hoover Houses and Community Structures," "Historical Base Map and Ground Study," "Buildings in the Core Area and Jesse Hoover's Blacksmith Shop," and "The P.T. Smith House") were not readily available for inclusion in this report. Through the process of tracking down these photographs from the original sources, several new sources turned up, which provided much valuable information.

A new technique, coupled with better originals than previously available, allowed for more detail to be extracted from these photographs. In some cases, as many as six enlargements were made of isolated sections of the original photographs.

In total, 150 photographs were copied, 57 of which are included in the text, and 50 more are included in this appendix. The photographs in this section show portions of the 11 historic houses covered in this report and almost all of the original houses on Downey Street. They also show such things as boardwalks, fences, outbuildings, landscaping around the houses, and streetscapes. Several photographs are included that pertain to the second Hoover house and the Herbert Hoover birthplace cottage.

These photographs have been included in this report as a means of preserving them, as additional background documentation, and as information for future projects at the Herbert Hoover National Historic Site.

HERBERT HOOVER, 1927 or 1928. The original photograph is with Mrs. Glenn Hoffman, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa.

Photographer unknown



R-1, P.T. SMITH HOUSE HS-2, ca. 1907. View looking southeast, showing picket fence around the house and shutters on the windows. The original photograph is with G. Gruwell, Seal Beach, California.

Photographer unknown



R-2, P.T. SMITH HOUSE HS-2, ca. 1915. This is a portion of the original photograph looking north and showing a raised boardwalk. The original photograph is with F. Oakley, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa.

Photographer unknown



R-3, P.T. SMITH HOUSE HS-2, 1938. View looking southeast, showing the north bay window. Note that the porch has been altered from the original. The original photograph is at Herbert Hoover National Historic Site, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1938-42).

Photographer unknown



R-4, P.T. SMITH HOUSE HS-2, ca 1915. View looking northeast. The original photograph is with Karen Laszckak, Rural West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1915-61A).

Photographer unknown



R-5, HANNAH VARNEY HOUSE HS4, ca. 1915. View looking northeast, showing the Varney house and the second Hoover house. Note that there is no picket fence around either house, or the P.T. Smith house (not visible). The original photograph is with Karen Laszcak, Rural West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1915-62A).

Photographer unknown



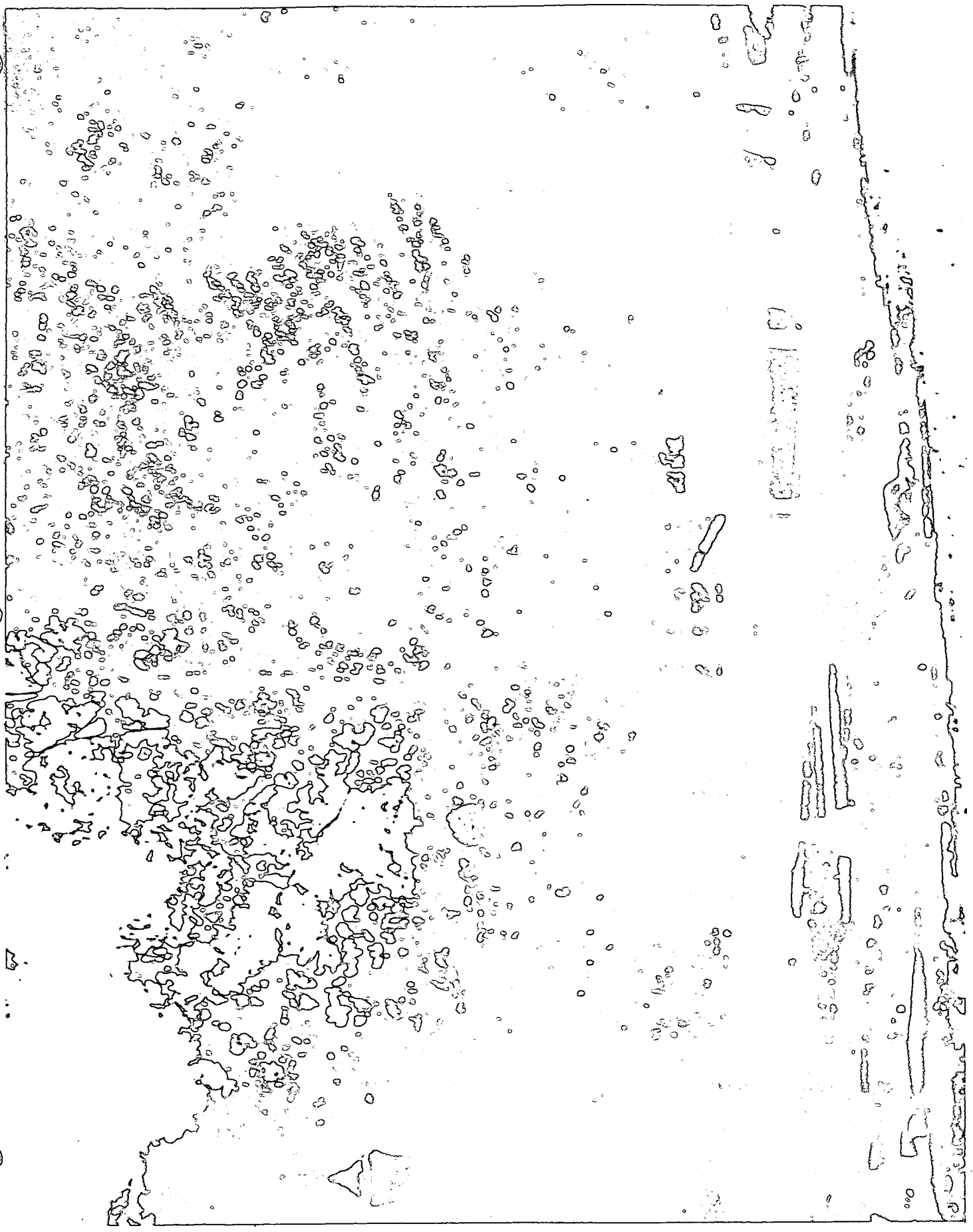
R-6, HANNAH VARNEY HOUSE HS-4, ca. 1915. View looking northeast, showing the Varney house and the second Hoover house. The people are, left to right, Ernest Endsley, Louis Endsley, and Bert Rummells. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1915-63A).

Photographer unknown



R-7, DR. L.J. LEECH HOUSE HS-5, ca. 1920. View looking southeast, showing a portion of the McClellen house to the right and double columns (between streetlamp posts) on the front porch of the Laban Miles house. The original photograph is from M. Stratton's album, 23-4, located at the Hoover Presidential Library, West Branch, Iowa.

Photographer unknown



R-8, DR. L.J. LEECH HOUSE HS-5, 1930. View looking east, showing U.S. Marine Band. Note barn to the rear of the Leech house. The original photograph (postcard) is from M. Stratton's album, 23-5, at the Hoover Presidential Library, West Branch, Iowa. E. Witmer, Wilton Junction, Iowa, also has an original photograph (postcard). A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa.

Photographer unknown



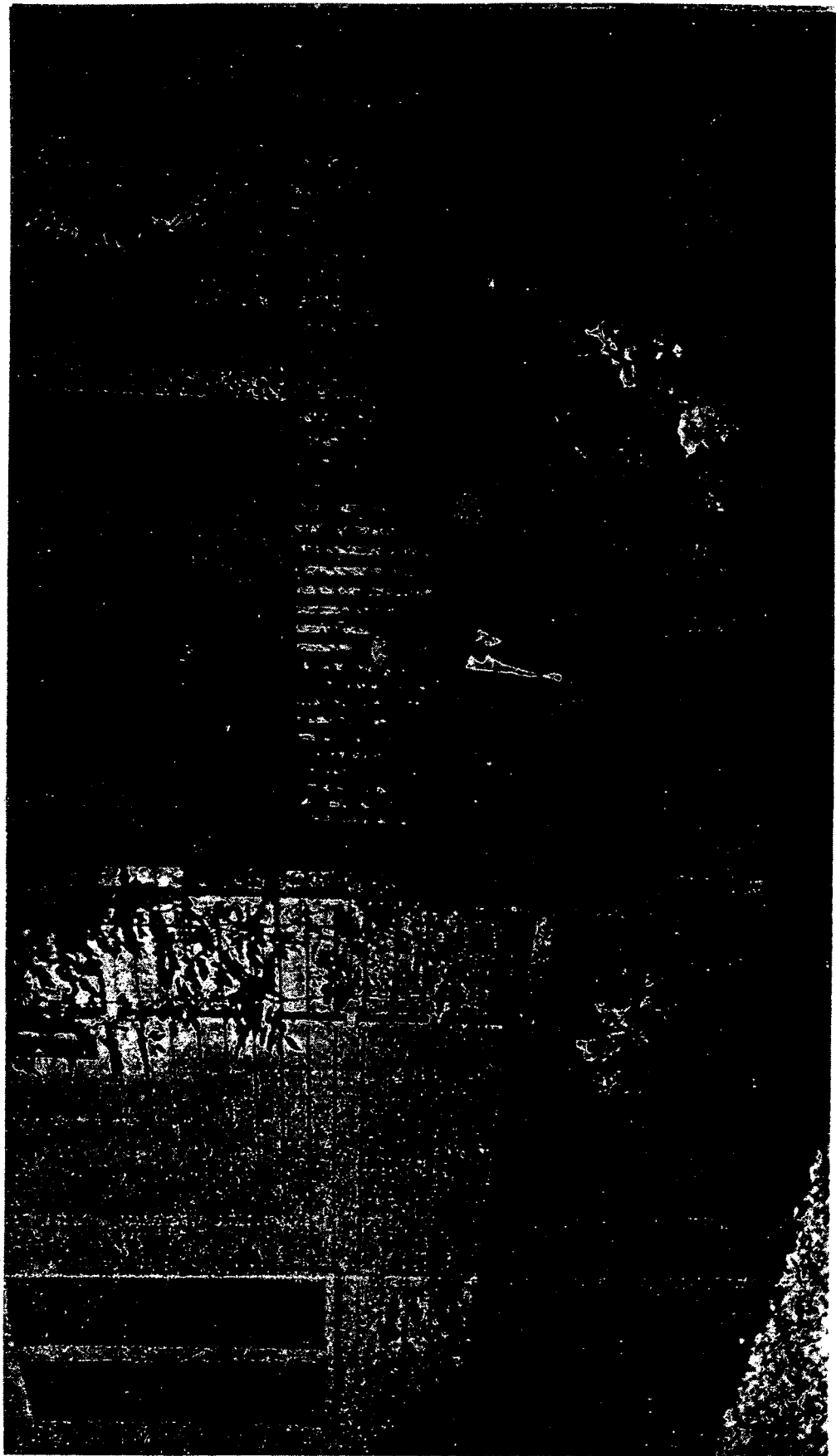
R-9, DR. L.J. LEECH HOUSE HS-5, 1932. View looking northeast, showing the northwest corner of the front porch and steps of the Leech house. The original photograph (postcard) is from M. Stratton's album, 23-7, at the Hoover Presidential Library, West Branch, Iowa. E. Witmer, Wilton Junction, Iowa, also has an original photograph (postcard). A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa.

Photographer unknown



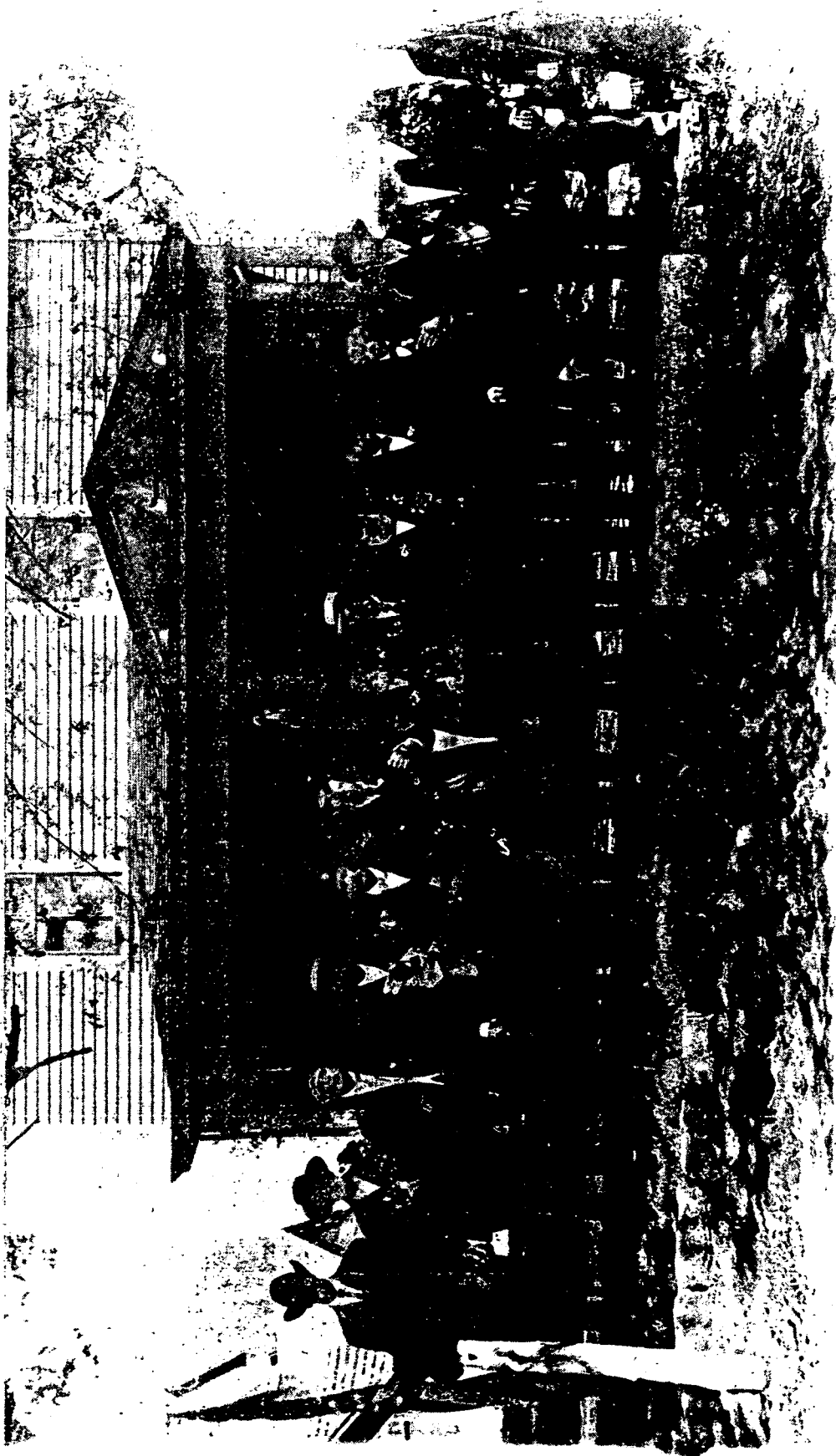
R-10, DR. L.J. LEECH HOUSE HS-5, 1932. View looking southeast, showing front porch and entrance to the house. The original photograph (postcard) is from M. Stratton's albums, located at the Hoover Presidential Library, West Branch, Iowa. E. Witmer, Wilton Junction, Iowa, also has an original photograph (postcard). A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1932-21D).

Photographer unknown



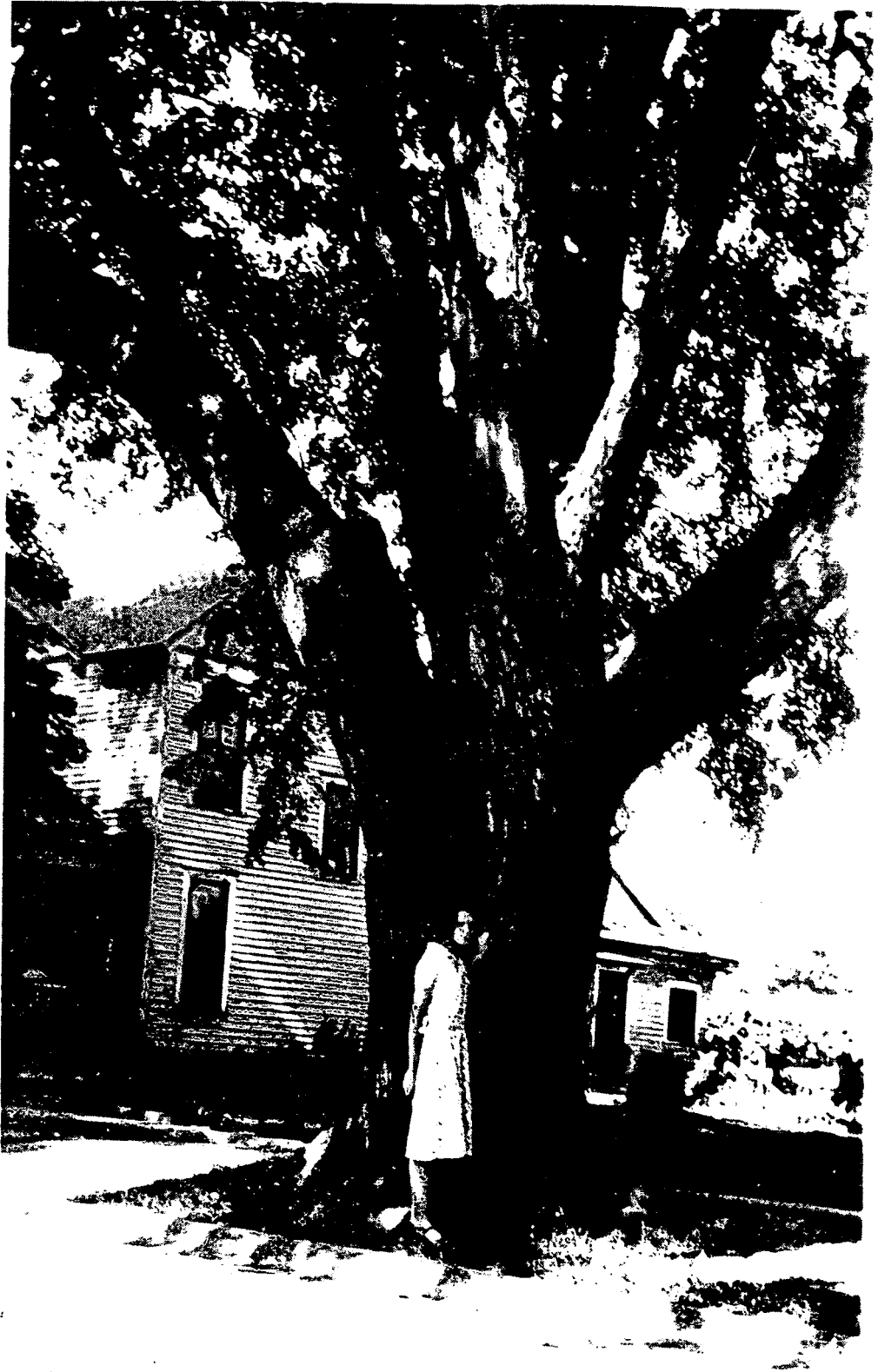
R-11, LABAN MILES HOUSE HS-6, ca. 1918. View looking east, showing Civil War veterans in front of the Laban Miles house. The original photograph is with A. Moore, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1918-63G).

Photographer unknown



R-12, LABAN MILES HOUSE HS-6, 1931. View looking northeast, showing Violet Charles Stratton, age 17. The original photograph is from M. Stratton's albums, at the Hoover Presidential Library, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1931-8C).

Photographer unknown



R-13, AMANDA GARVIN HOUSE HS-7, 1910. View looking northwest and showing the Methodist church after it was remodeled in the mid-1880s. The parsonage is to the left of the church, and the Garvin house to the right. The original photograph is with G. Speight, West Branch, Iowa. The West Branch Heritage Society, West Branch, Iowa, also has an original photograph. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1910-23).

Photographer unknown

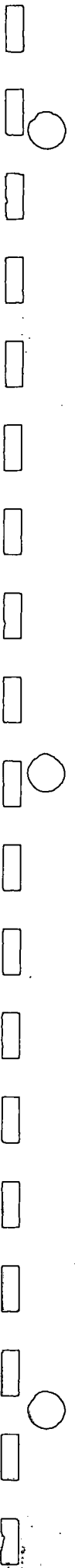
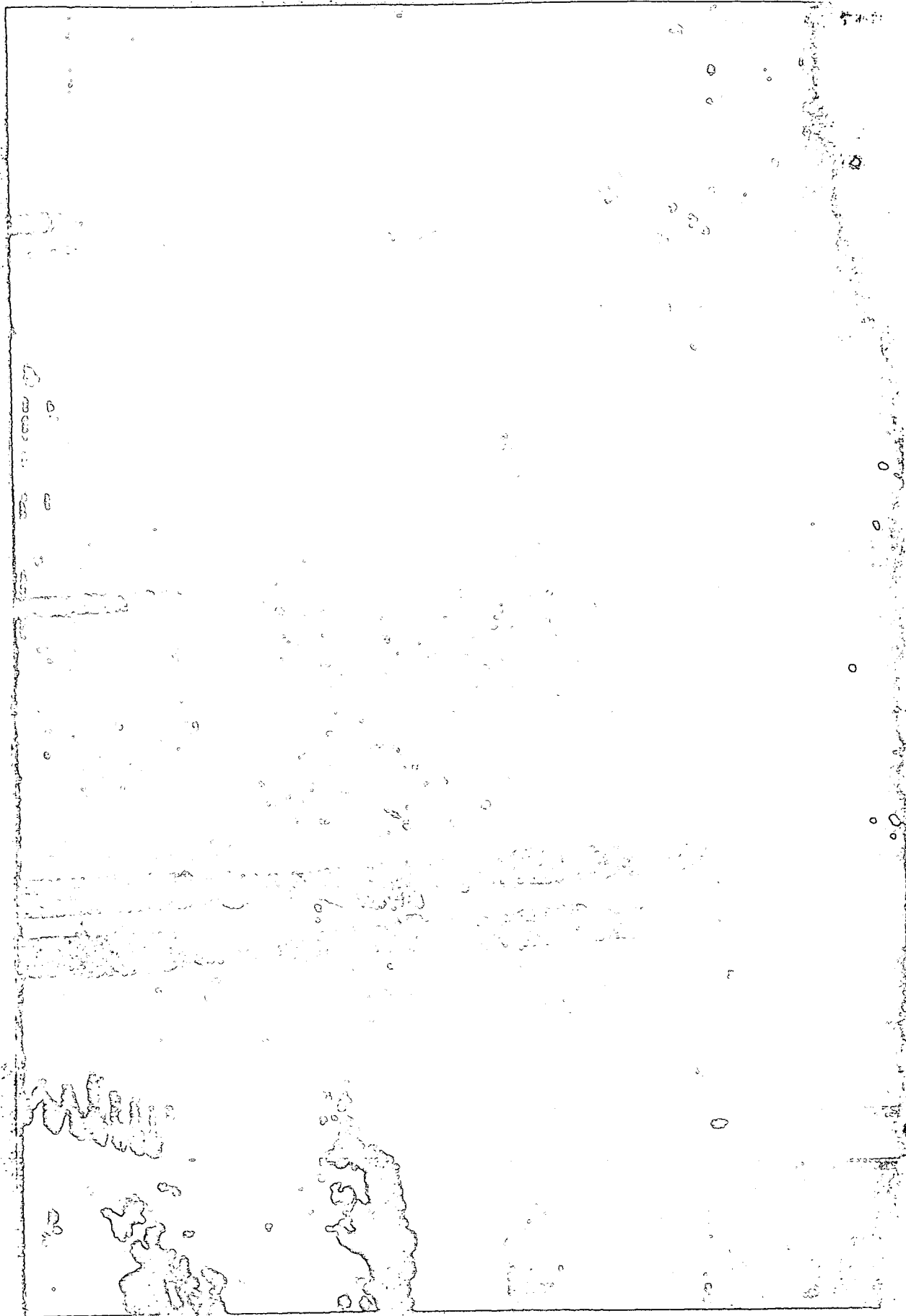


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M. E. Church

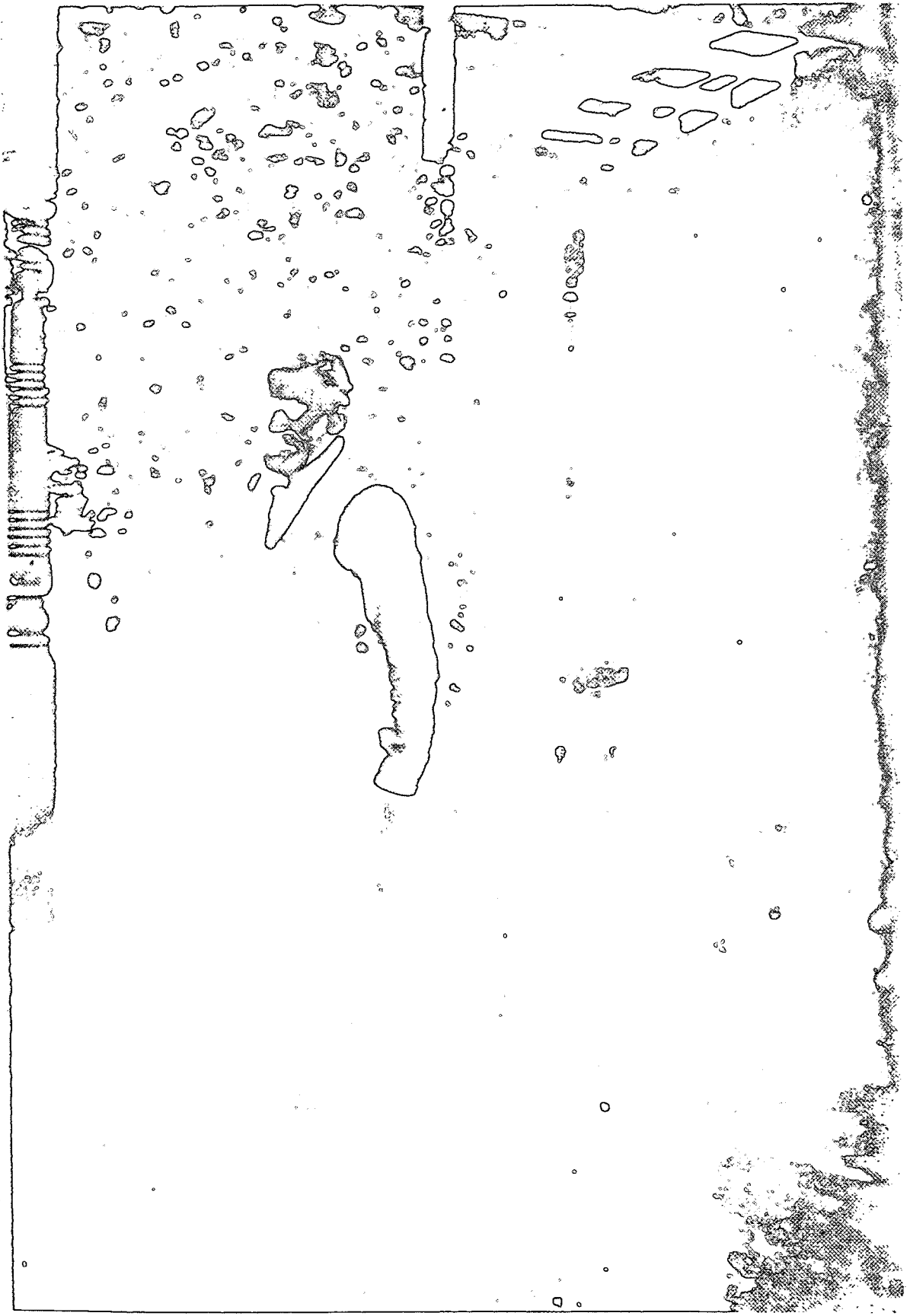
R-14, C.E. SMITH HOUSE HS-8, ca. 1920. View looking northwest (original location) and showing the pergola at the southeast corner of the house. The original photograph is with G. Brown, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1920-88).

Photographer unknown



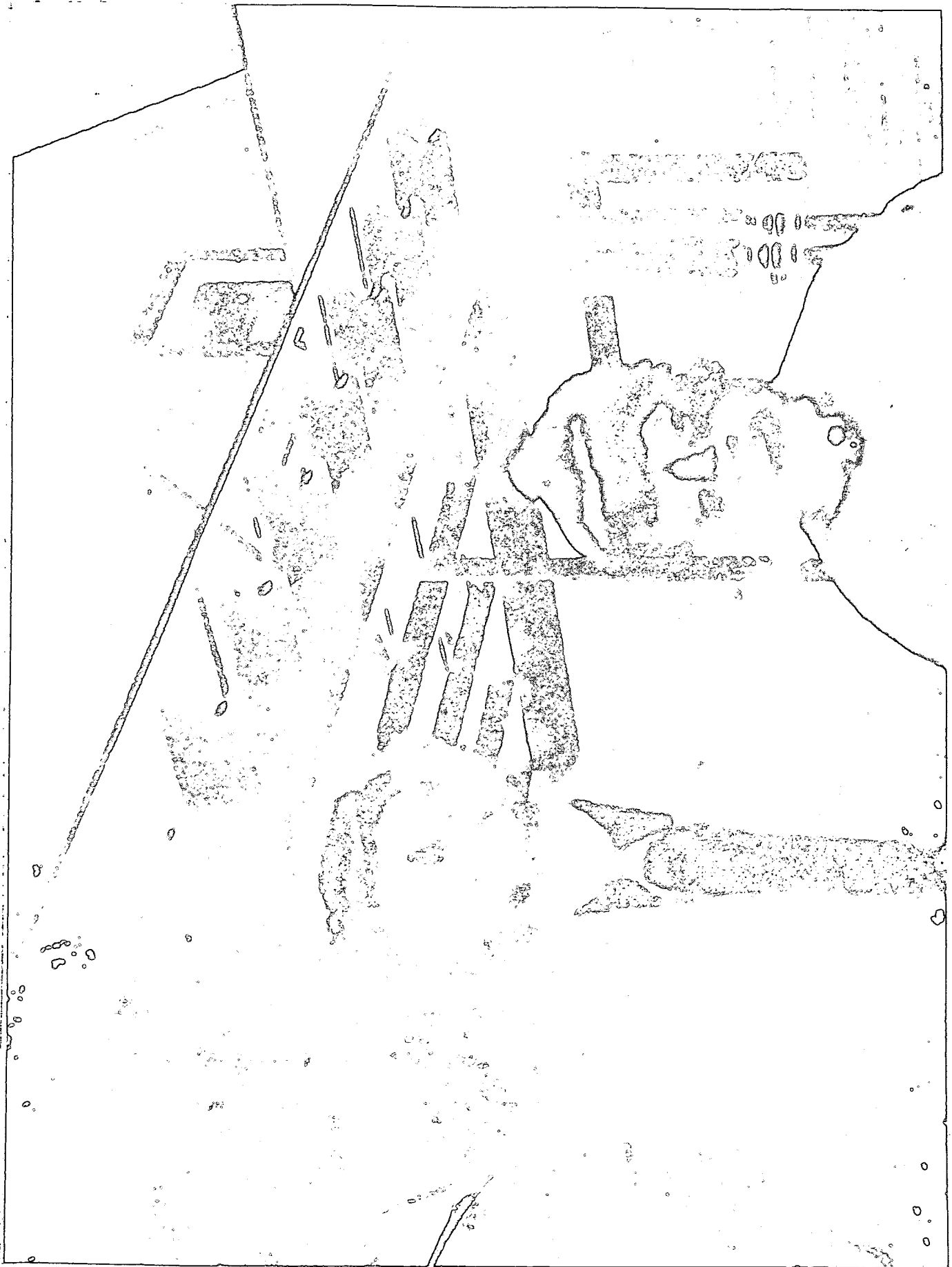
R-15, CHARLES E. SMITH HOUSE HS-8, ca. 1925. View looking northwest (original location) and showing Mr. Smith standing by the southeast corner post of the pergola. The original photograph is with G. Brown, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1925-43).

Photographer unknown



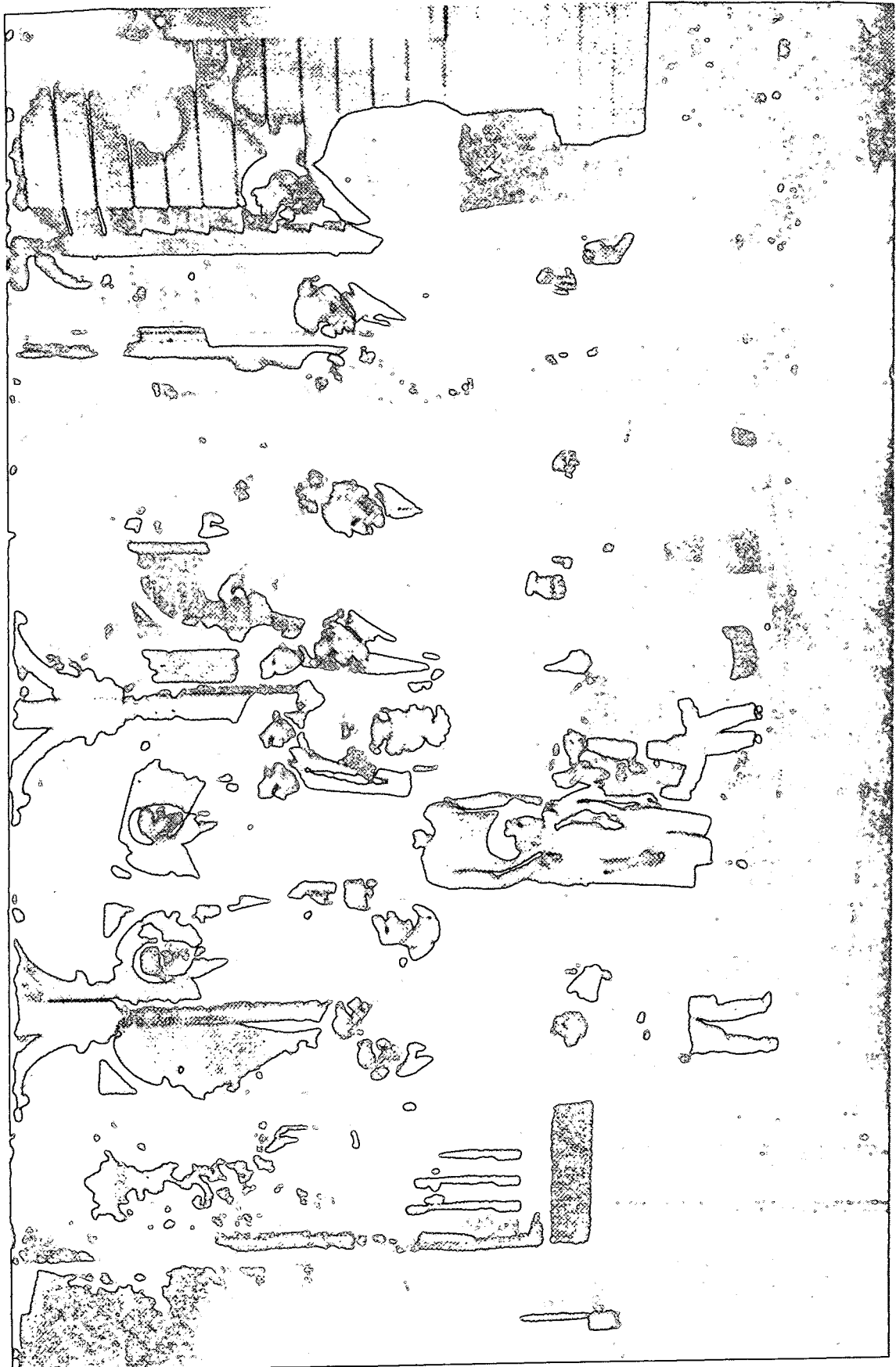
R-16, CHARLES E. SMITH HOUSE HS-8, ca. 1925. View looking northwest (original location) and showing Charles and Deborah Smith standing next to the southeast corner of the pergola. Note the construction details of the pergola and lattice work. The original photograph is with A. Moore, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1925-30).

Photographer unknown



R-17, CHARLES E. SMITH HOUSE HS-8, ca. 1915. View looking southwest, showing the front porch. The original photograph is with A. Moore, West Branch, Iowa. A copy of the negative is Herbert Hoover National Historic Site, West Branch, Iowa (reference NPS N. 6-16, negative plate 27).

Photographer unknown



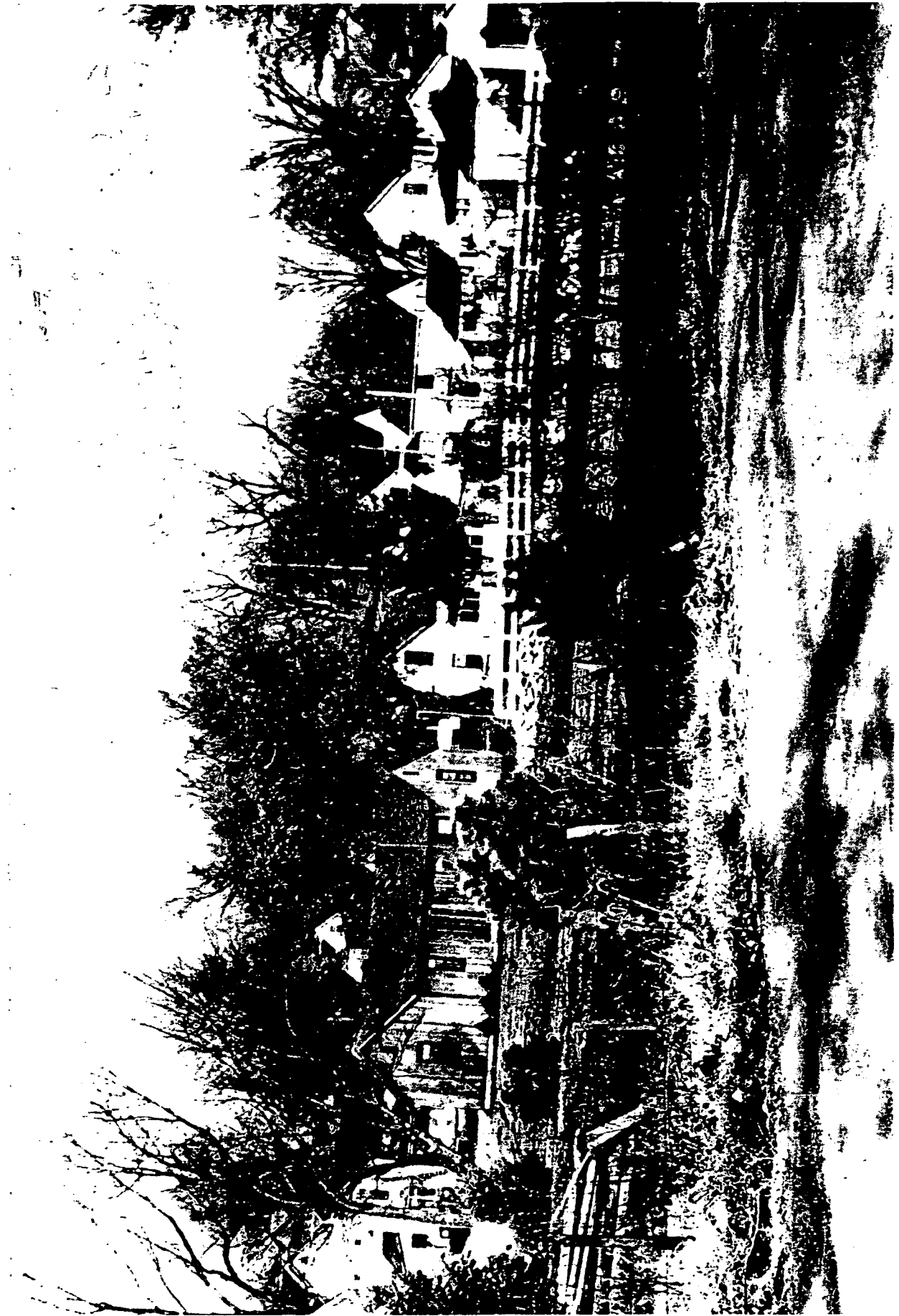
R-18, JAMES STAPLES HOUSE HS-9, 1964. View looking northwest, showing the Staples house at the left and the Mackey house in the center. The original photograph and negative are with W. Wagner, Des Moines, Iowa.

W. Wagner, photographer



R-19, E.S. HAYHURST HOUSE HS-10, ca. 1938. View looking northwest, showing the Hayhurst house at the far left and the Mackey house at the right. The original photograph is from the M. Stratton albums, at the Hoover Presidential Library, West Branch, Iowa. A copy of the negative is also at the library, (reference 1938-7A).

Photographer unknown



R-20, DOWNEY STREET, ca. 1900. View looking south on Downey Street from the intersection of Main Street and Downey Street. The original photograph is with the West Branch Heritage Society, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1900-65).

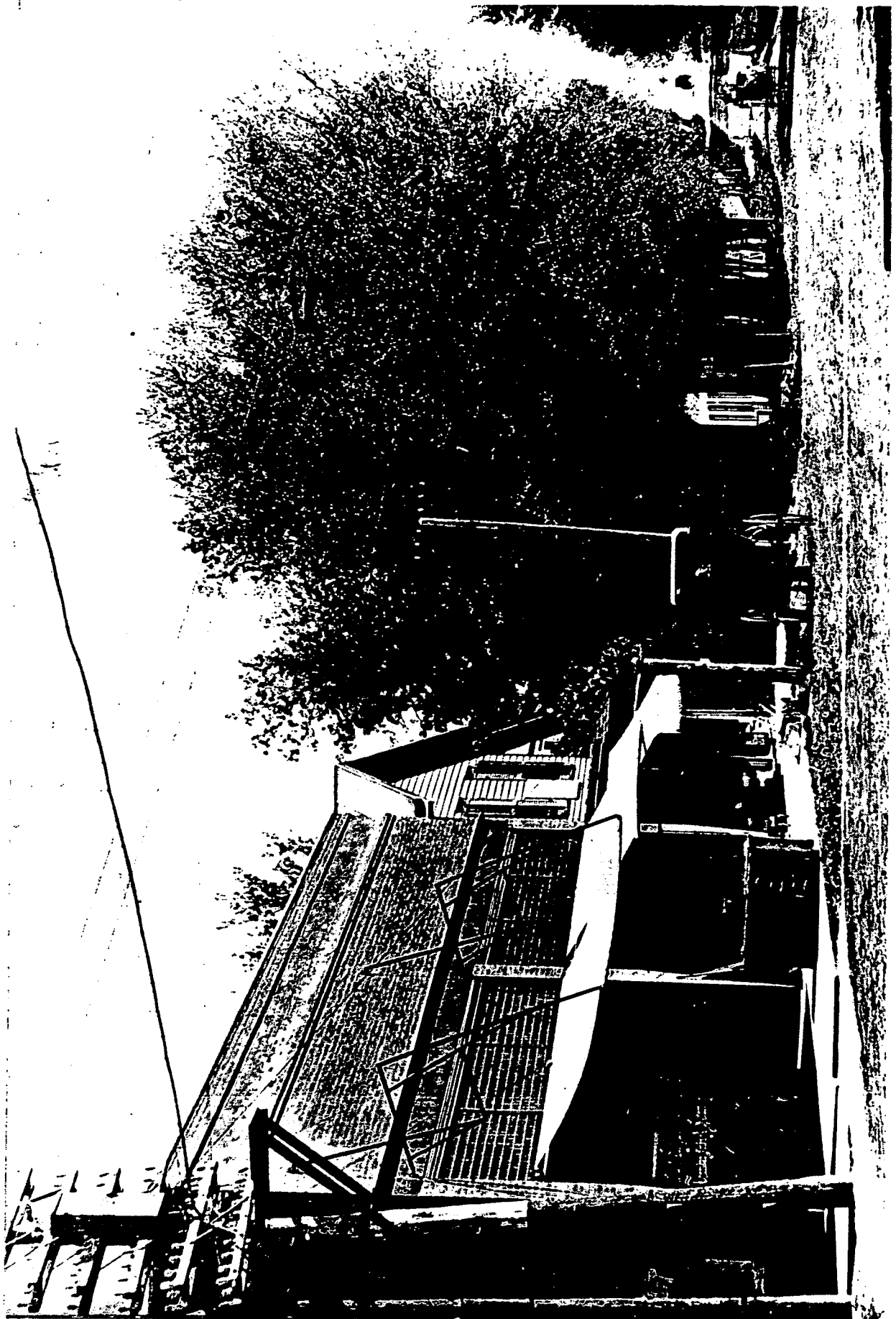
T.T. Hathaway, photographer



300 W. NY ST. WILSON, BOSTON, MA

R-21, DOWNEY STREET, ca. 1900. Enlargement of R-20, showing the east side of the street. The original photograph is with the West Branch Heritage Society, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1900-65).

T.T. Hathaway, photographer



R-22, DOWNEY STREET, ca. 1890. View looking south on Downey Street from the intersection of Main Street and Downey Street. Note the detail of the road and ditches, with bridge planks across the ditch in front of houses. The street light shown in R-20 is not here. Note the picket fence between the McClellen house and the Laban Miles house. The original photograph is with G. Speight, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1890-23).

E.M. Savage, photographer



R-23, DOWNEY STREET, ca. 1890. This photograph is an enlargement of the left (east) side of R-22. The original photograph is with G. Speight, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1890-25).

E.M. Savage, photographer



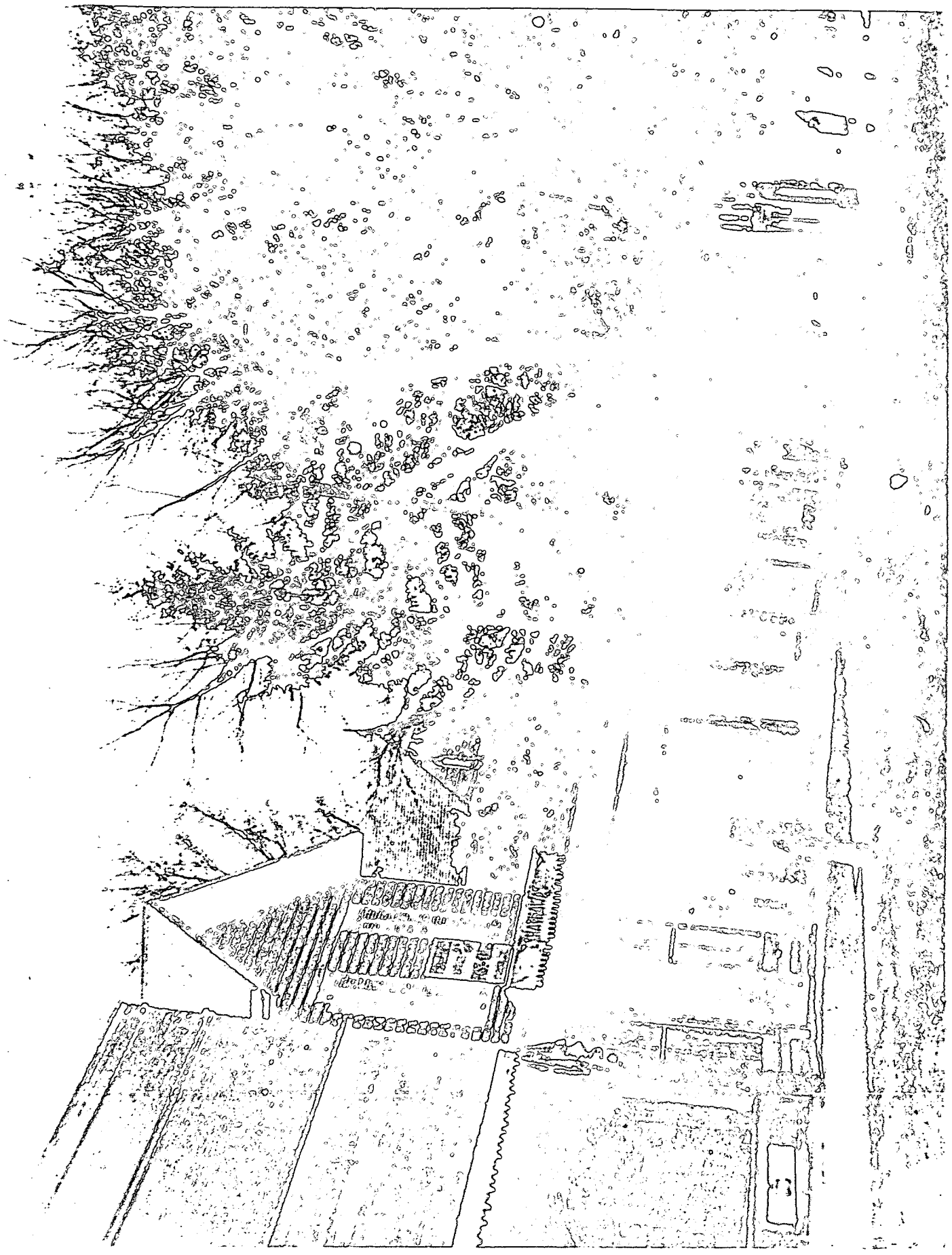
R-24, DOWNEY STREET, ca. 1890. This photograph is an enlargement of the right (west) side of R-22. The original photograph is with G. Speight, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1890-25).

E.M. Savage, photographer



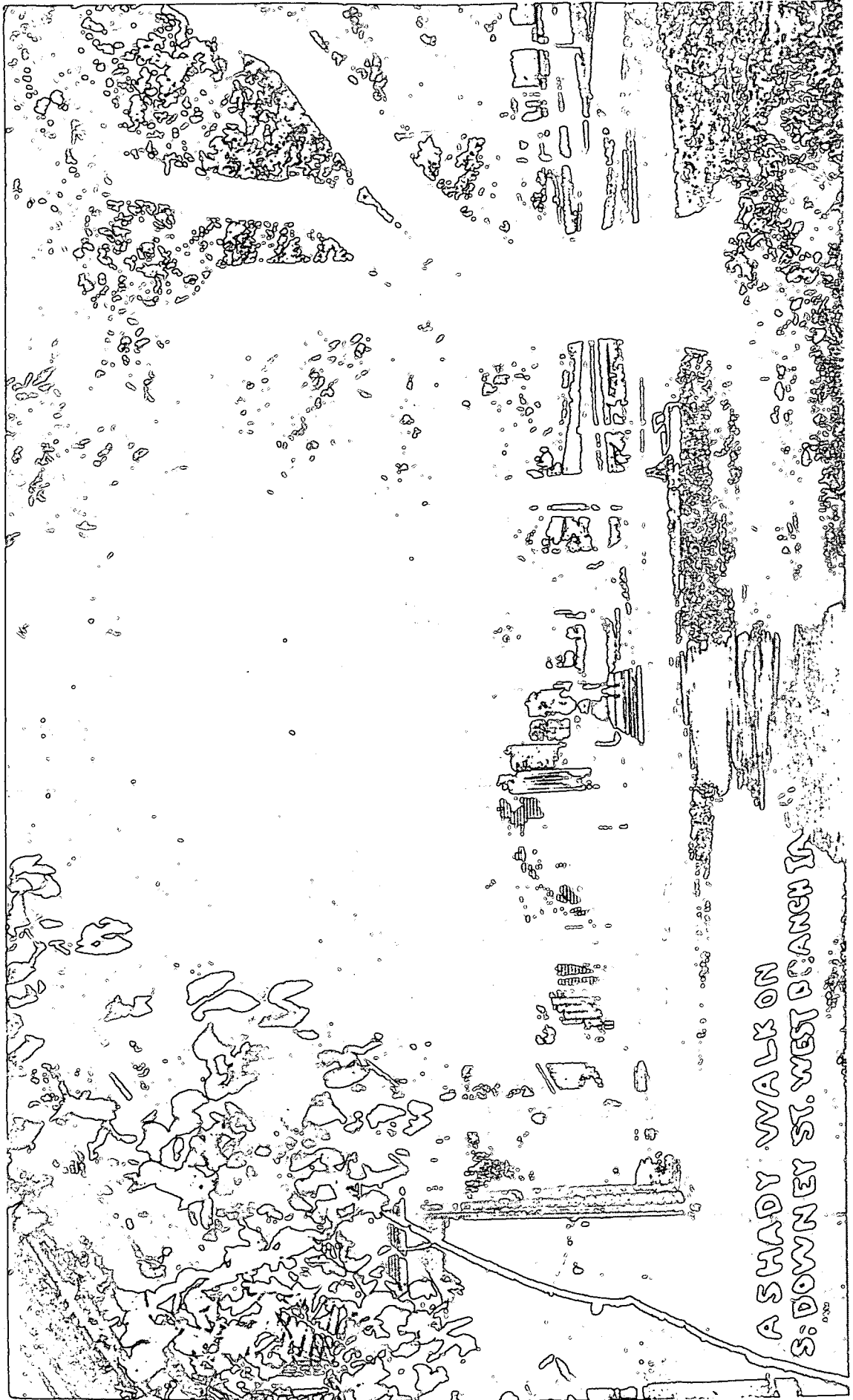
R-25, DOWNEY STREET, ca. 1900. View looking southeast at the east side of Downey Street and showing the Laban Miles and McClellan houses. This photograph is the right half of the original photograph. The original photograph is with the West Branch Heritage Society, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1900-67).

T.T. Hathaway, photographer



R-26, DOWNEY STREET, ca. 1920. View looking south down sidewalk on the east side of Downey Street. Note that Dr. Leech has not yet built his house between the McClellen and Laban Miles houses. The original photograph is with the Kofrons, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1920-69).

Photographer unknown



A SHADY WALK ON
S. DOWNEY ST. WEST BRANCH TN

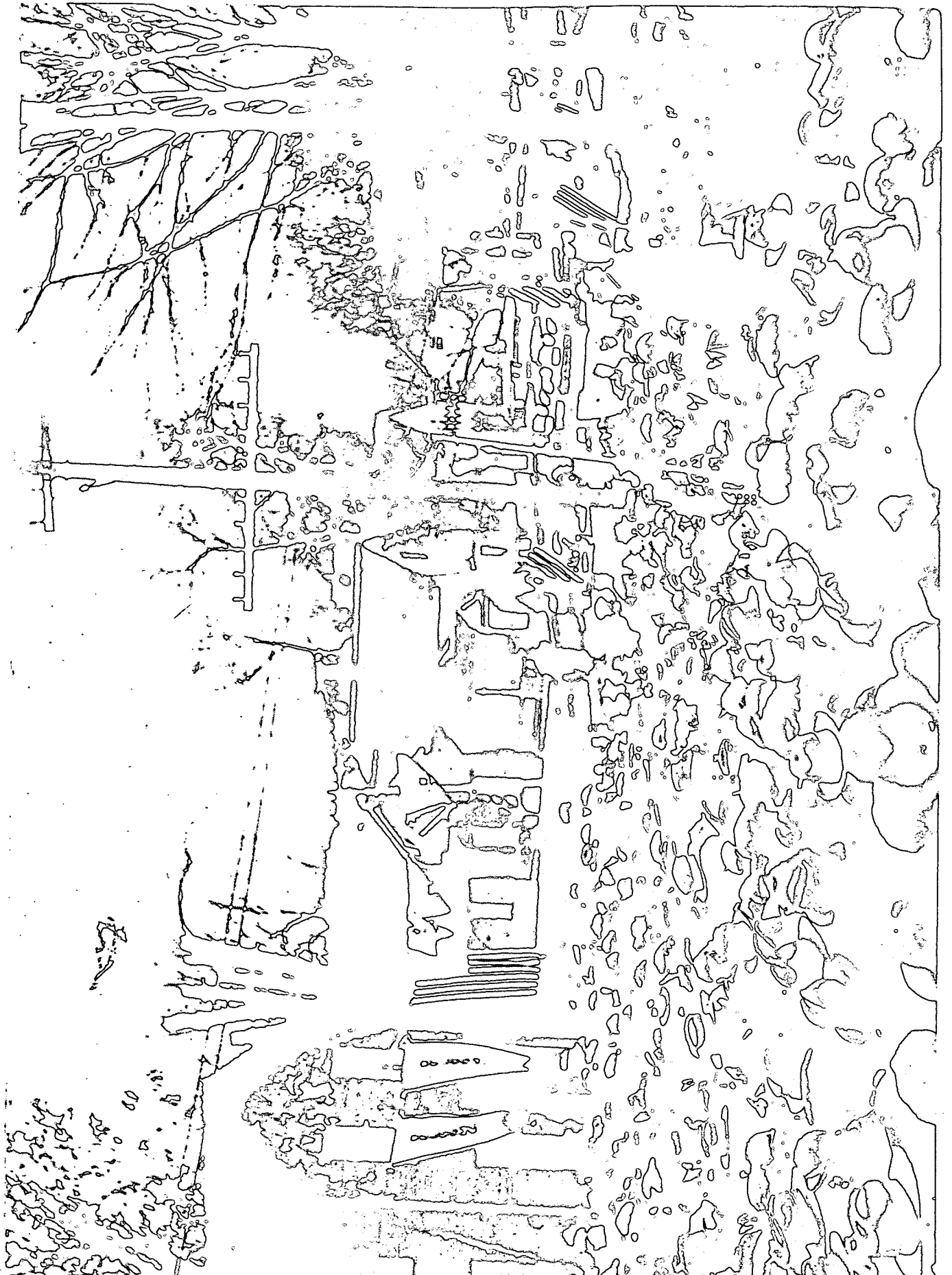
R-27, DOWNEY STREET, November 6, 1928 (victory celebration). View looking south on Downey Street, showing a portion of the Laban Miles, Dr. Leech, McClellen, and Forney houses. The original photograph is with G. Speight, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1928-46D).

Photographer unknown



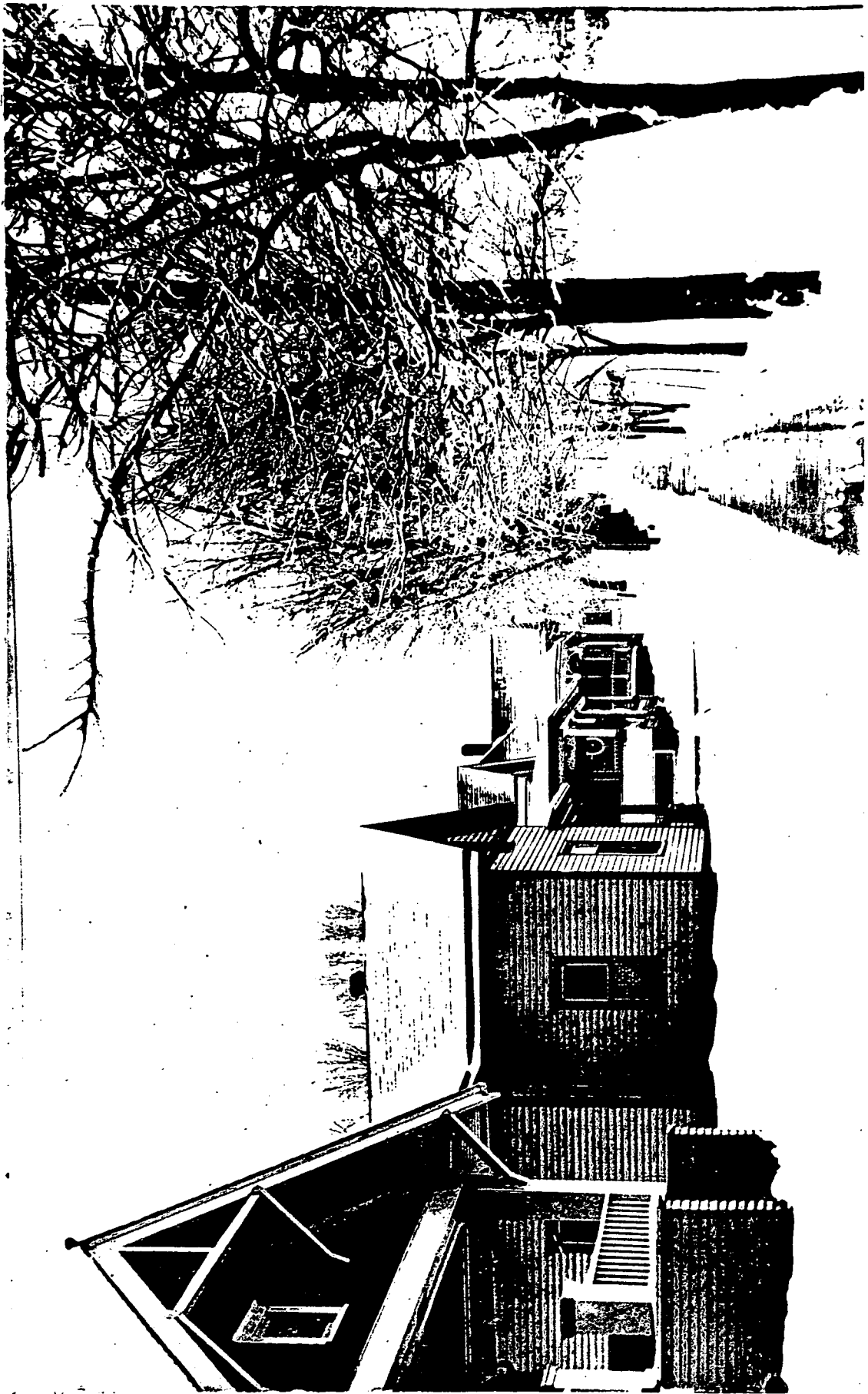
R-28, DOWNEY STREET, November 6, 1928 (victory celebration). View looking south on Downey Street, showing (from left to right) the Forney house, the creek, and the three houses which occupied the site of the restored Friends meetinghouse. The original photograph is with G. Speight, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1928-45D).

Photographer unknown



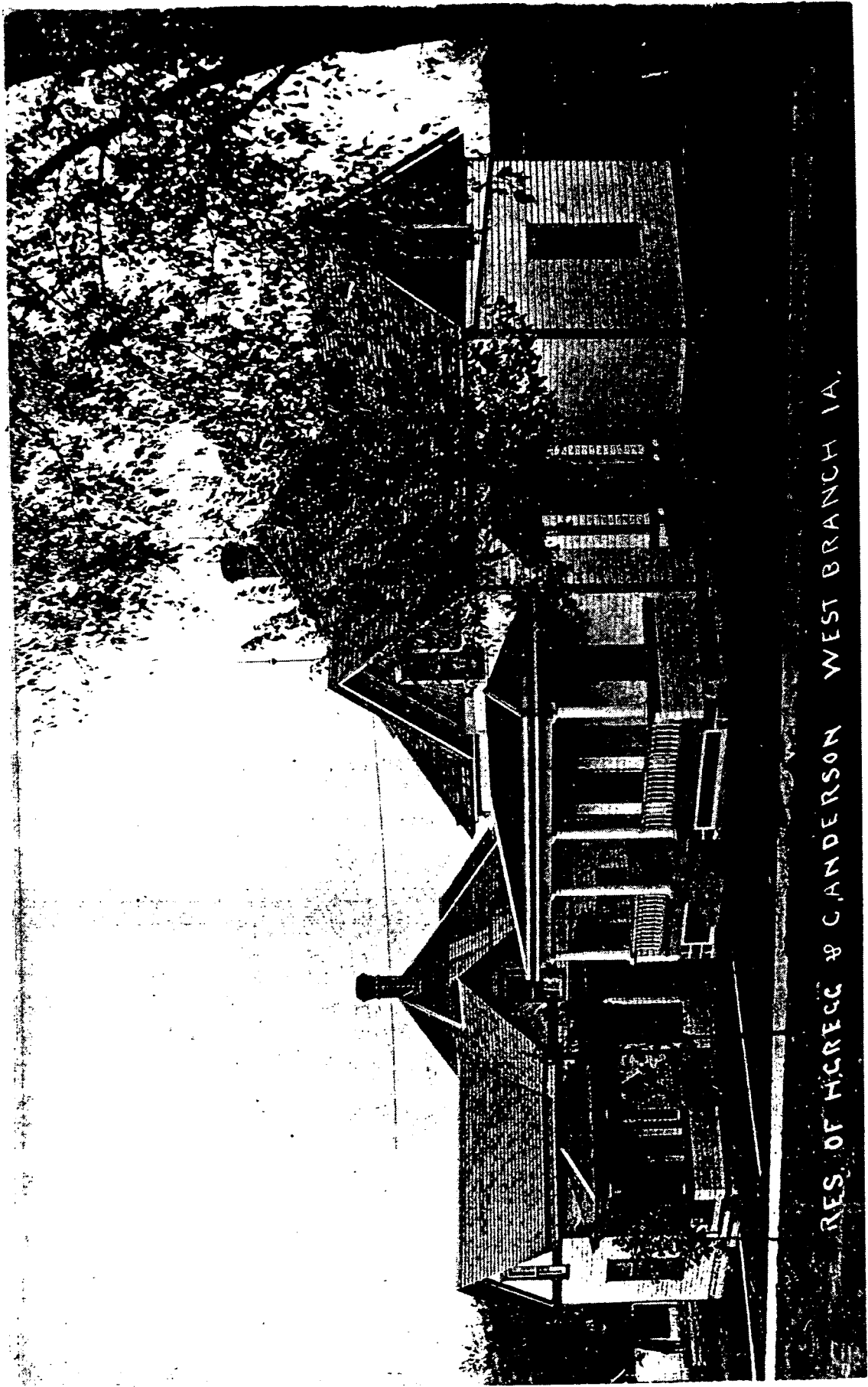
R-29, DOWNEY STREET, ca. 1915. View looking south on Downey Street, showing the houses on the east side of the street, south of the P.T. Smith house. The second house from the left belonged to H.C. Regg, the third to C. Anderson, and the fourth to C.E. Smith. The original photograph is with the Iowa City Historical Society, Iowa City, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1915-64A).

Photographer unknown



R-30, DOWNEY STREET, ca. 1910. View looking northeast on south Downey Street, showing a portion of the third house between the C.E. Smith and P.T. Smith houses (neither of which are in this photograph); the C.E. Smith house is to the right). The original photograph is with the West Branch Heritage Society, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1930-2B).

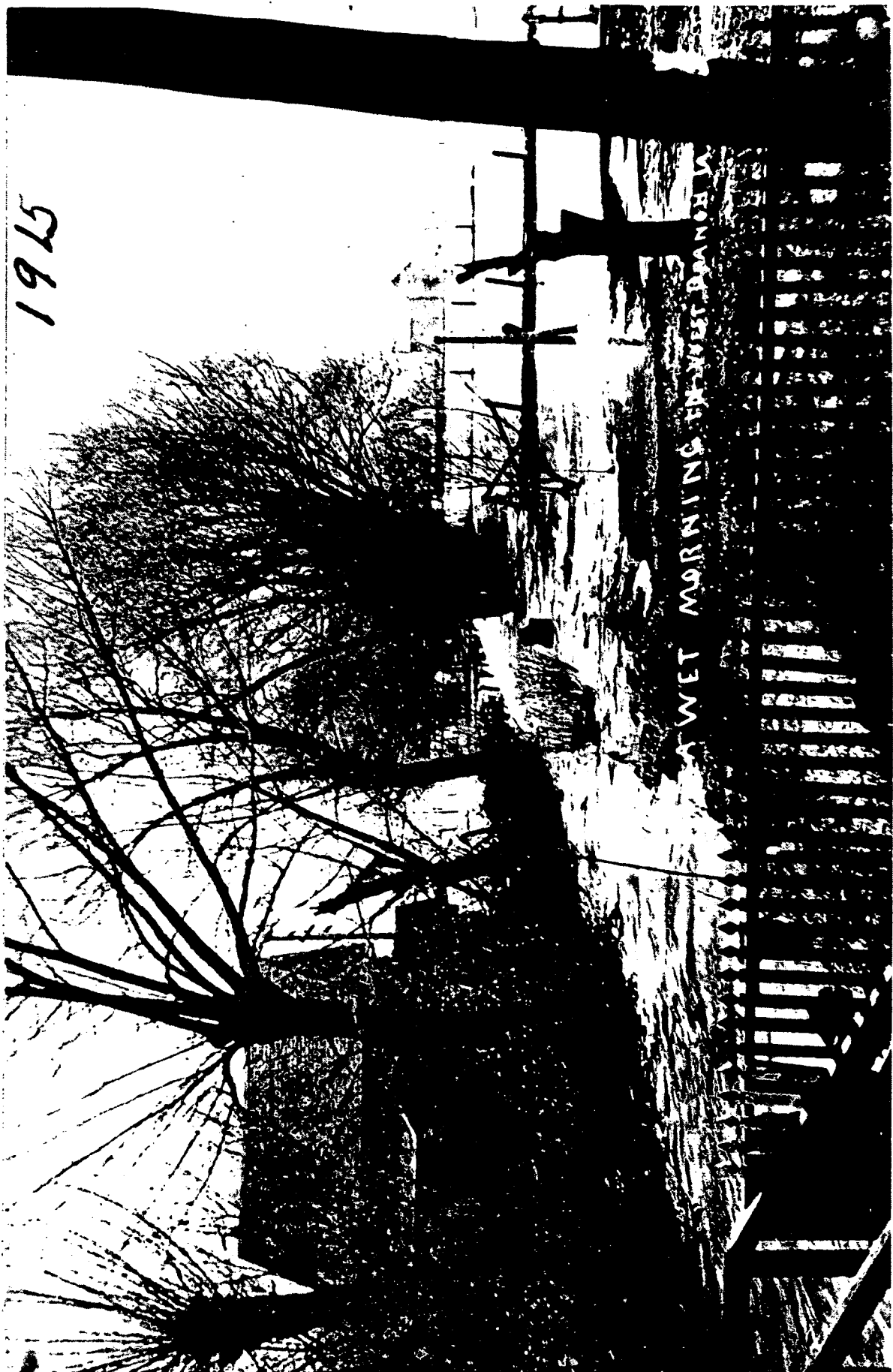
Photographer unknown



RES. OF H. GRECC & C. ANDERSON WEST BRANCH IA.

R-31, WAPSINONOC CREEK, 1915. View looking east down the Wapsinonoc Creek from Downey Street. Note picket fence and footbridge at bottom left. The original photograph is with R. Sayles, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1915-87).

Photographer unknown



1965

A WET MORNING IN WEST BRANCH

R-32, DOWNEY STREET, July 4, 1911. View looking north on Downey Street. The picket fence to the right of the lead car divides the Leech and the McClellen properties. The original photograph is with G. Speight, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1911-8).

Photographer unknown



R-33, DOWNEY STREET, 1890-1900. View looking northwest on Downey Street. From left to right the buildings are the Methodist parsonage, the Methodist church, and the Amanda Garvin house. The original photograph is with G. Speight, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1900-61).

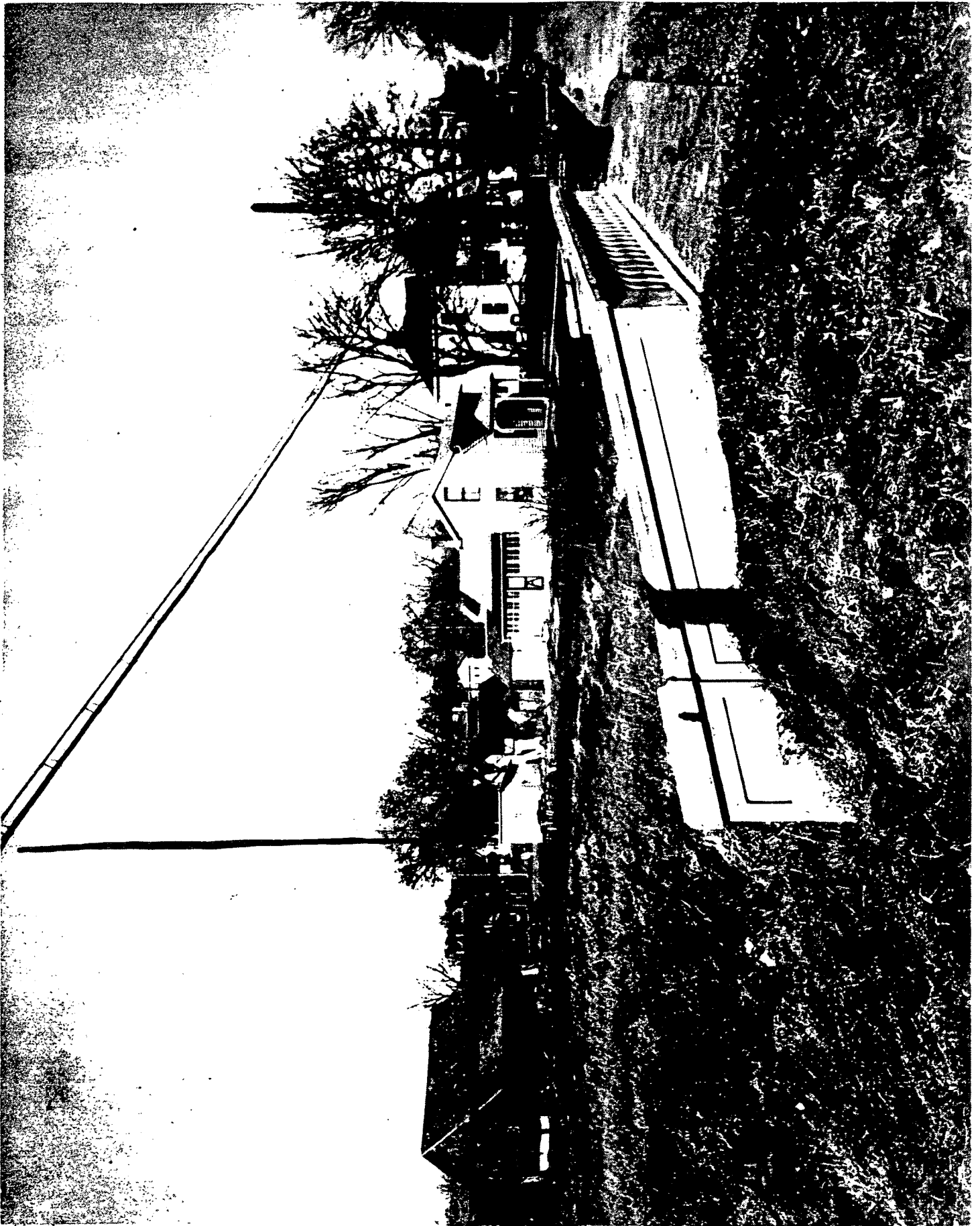
E.M. Savage, photographer



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R-34, DOWNEY STREET BRIDGE, 1928. View looking northwest from the Downey Street bridge over the Wapsinonoc Creek. This photograph shows the Hayhurst house, the Wright house, and the Herbert Hoover birthplace before restoration. Note that the Methodist church is gone. The original photograph and a copy of the negative are at the Hoover Presidential Library, West Branch, Iowa (reference 1930-49A).

Photographer unknown



R-35, DOWNEY STREET, ca. 1972. View looking south on Downey Street. The original photograph and negative are with W. Wagner, Des Moines, Iowa.

W. Wagner, photographer



R-36, WAPSINONOC CREEK FLOOD, 1911. View looking southeast and showing the flooded Wapsinonoc Creek and the Forney house to the left. The original photograph is with G. Gruwell, Seal Beach, California. A copy of the negative is at the Hoover Presidential Library (reference 1915-89) and the Herbert Hoover National Historic Site, West Branch, Iowa.

Photographer unknown



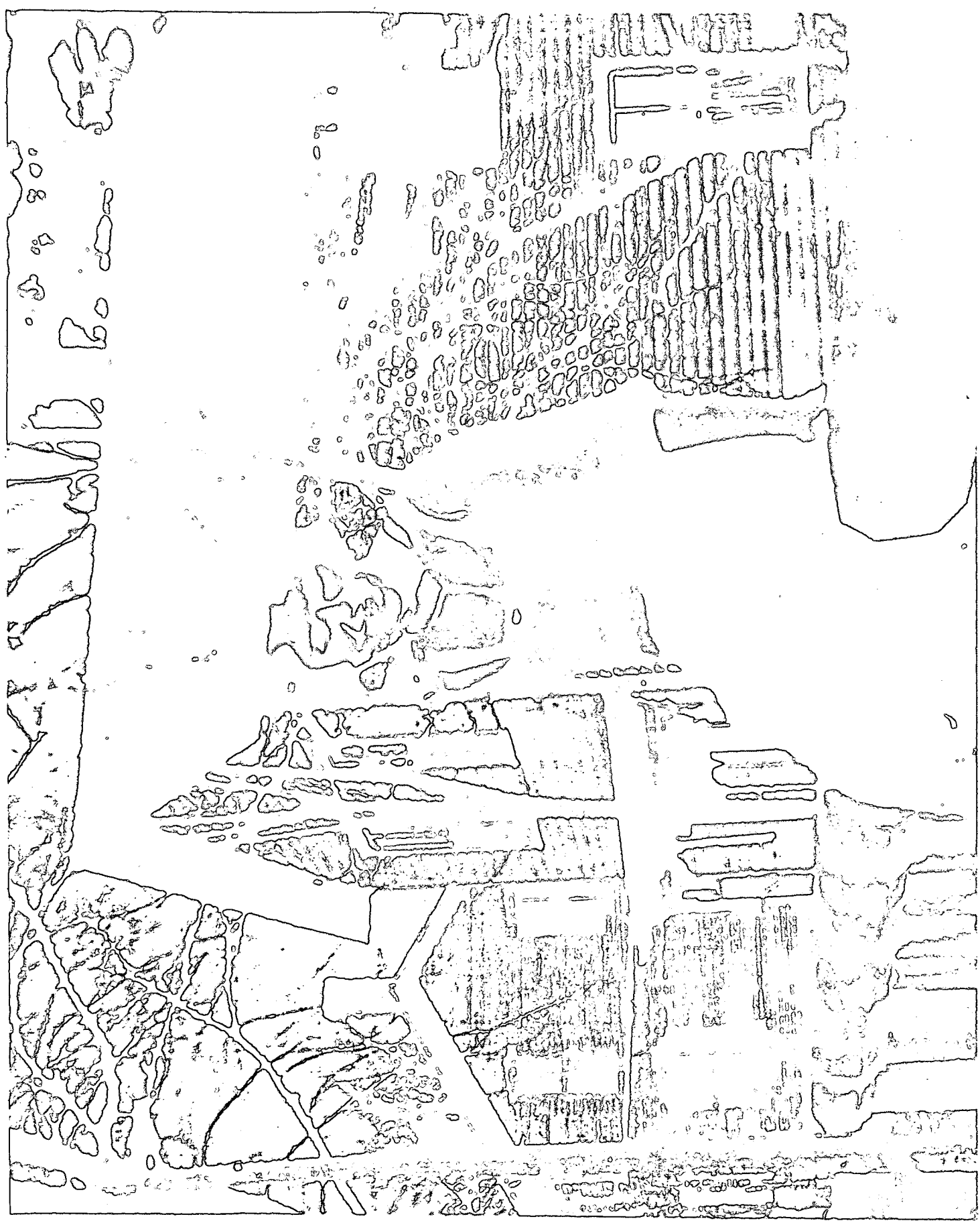
R-37, MCCLELLEN HOUSE, ca. 1900. View looking northeast, showing the front of the house. The rear corner of the one-story portion of the Laban Miles house is visible at the left. Note the picket fence between the two houses and the absence of the house built by Dr. Leech. The McClellen house burned down in 1930. The original photograph is with the West Branch Heritage Society, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1900-68).

Photographer unknown



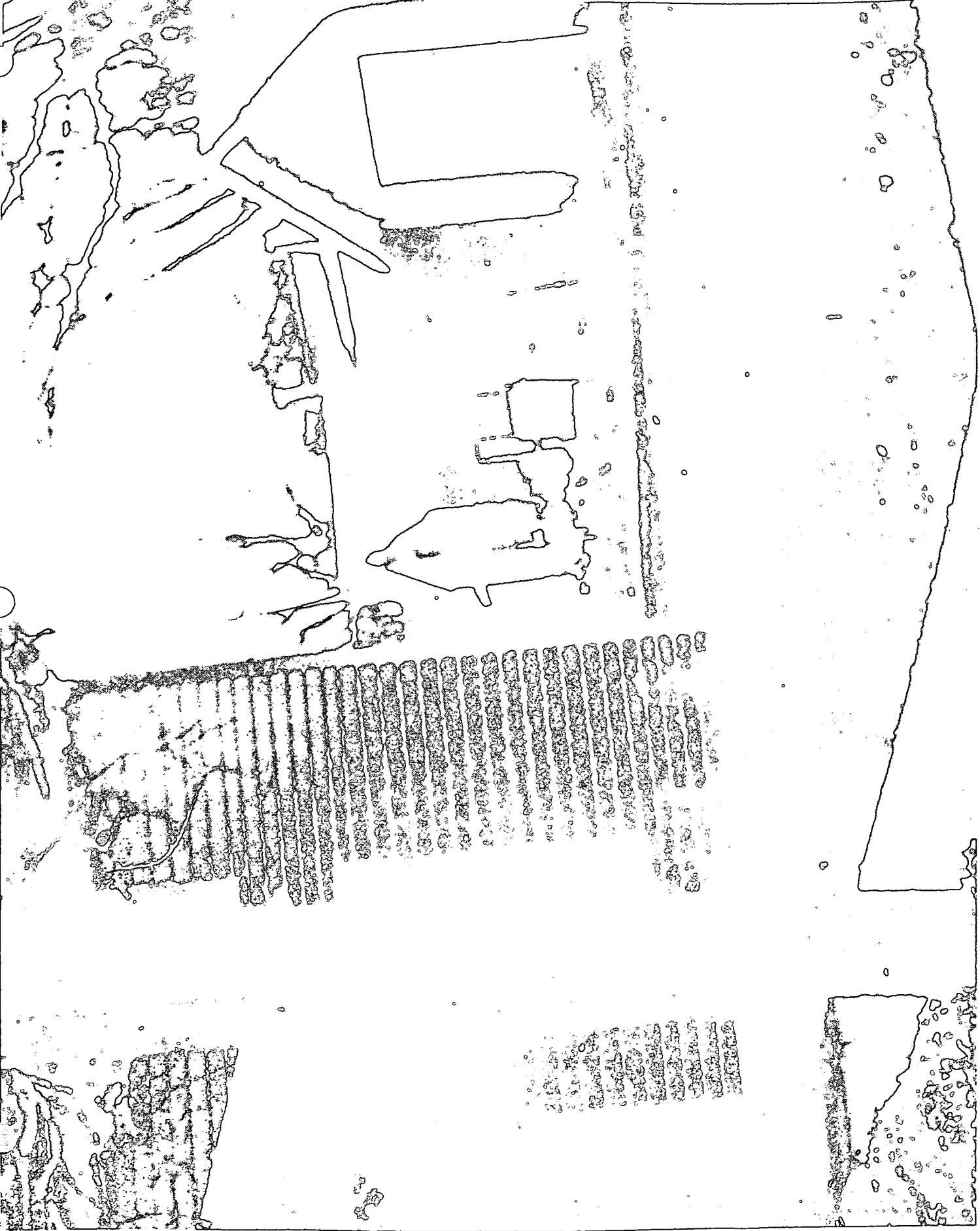
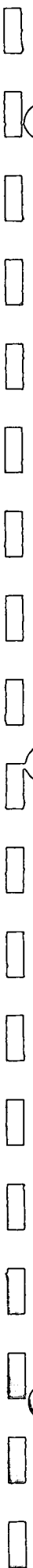
R-38, FORNEY AND MCCLELLEN HOUSES, ca. 1925. View looking northeast, showing Dora Michener seated on the bridge over the Wapsinonoc Creek with the Forney house directly behind and the McClellen house to the left. The original photograph is with L. Rummells, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1925-71).

Photographer unknown



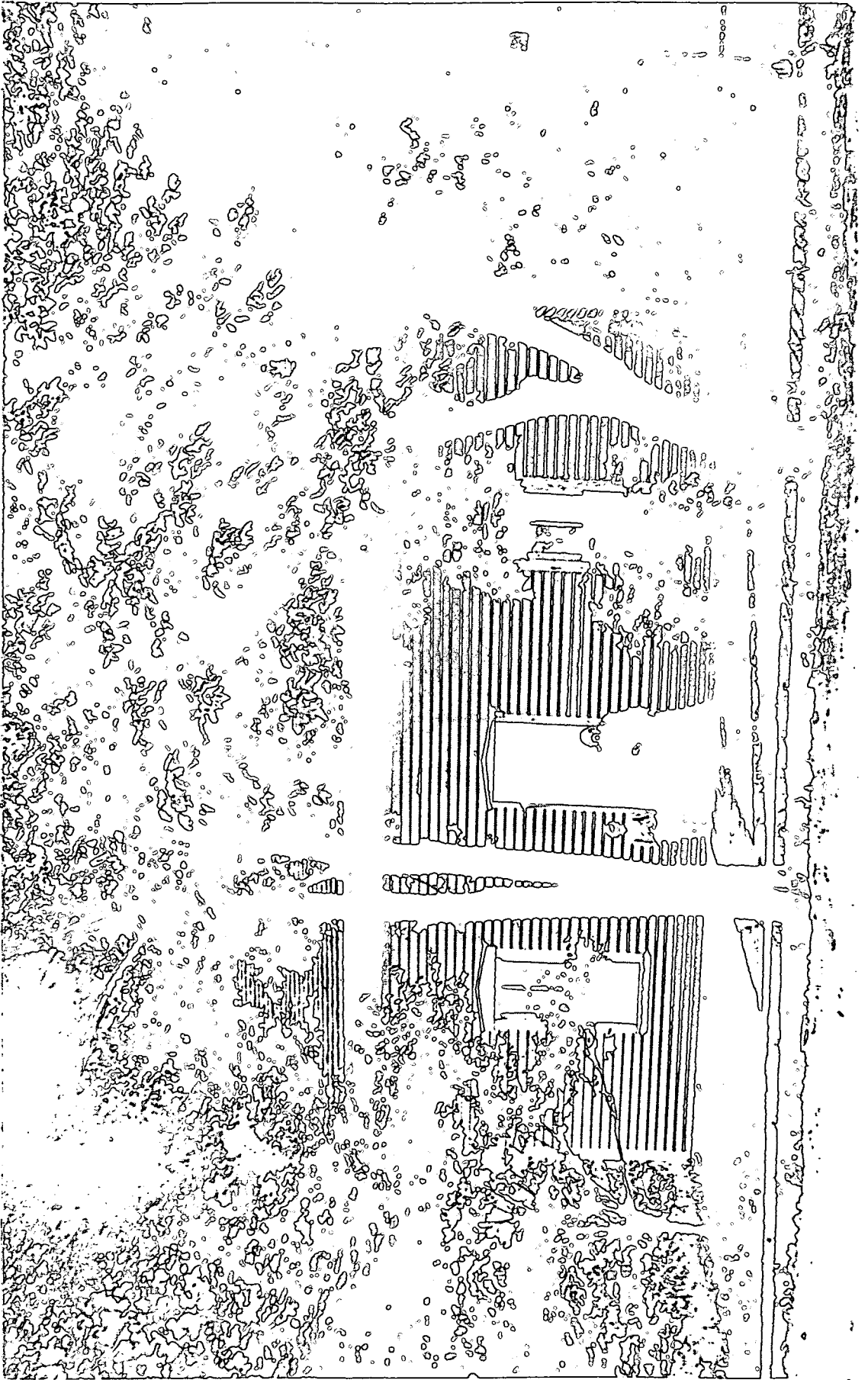
R-39, HERBERT HOOVER BIRTHPLACE, ca. 1930. View looking northwest, showing the house which was located where the Quaker school is now. The house in the foreground is the north half of the Herbert Hoover birthplace before restoration. The original photograph is with G. Hoffman, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1930-1H).

Photographer unknown



R-40, SECOND HOOVER HOUSE, September 22, 1909 (postmark). View looking east. Lib Witter and Stub Rummells are shown in front of the door. The original photograph is with the West Branch Heritage Society, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1909-16).

T.T. Hathaway, photographer



R-41, SECOND HOOVER HOUSE, ca. 1920. View looking northeast. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1920-40A).

Photographer unknown



R-42, SECOND HOOVER HOUSE, ca. 1915. View looking northeast, showing a portion of the rear porch and south gable end. The original photograph is with L. Rummells, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1915-69A).

Photographer unknown



R-43, SECOND HOOVER HOUSE, ca. 1915. View looking northeast and showing the rear porch. The original photograph is with L. Rummells, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1915-68A).

Photographer unknown



R-44, SECOND HOOVER HOUSE, ca. 1915. View looking northeast and showing the front (west elevation) of the house. The original photograph is with L. Rummells, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1915-67A).

Photographer unknown



R-45, SECOND HOOVER HOUSE, ca. 1915. View looking northwest and showing the rear corner of the house. The original photograph is with L. Rummells, West Branch, Iowa. A copy of the negative is at the Hoover Presidential Library, West Branch, Iowa (reference 1915-65A).

Photographer unknown



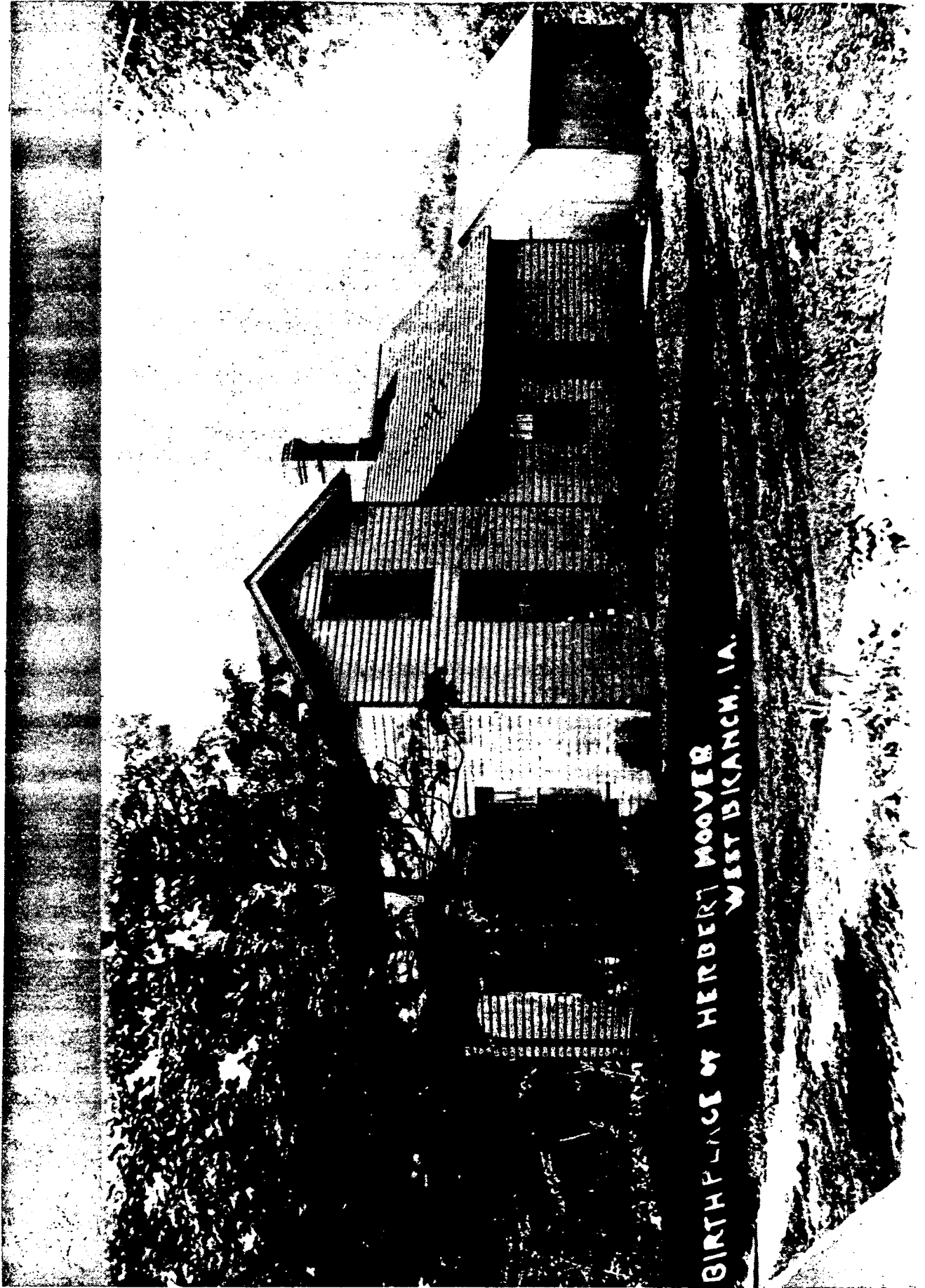
R-46, HERBERT HOOVER BIRTHPLACE, 1878. View looking north on Downey Street from Cook's Hill shows the birthplace and blacksmith shop, both of which appear to be either painted dark or have weathered wood siding. The roofs of the church and the blacksmith shop appear equally dark. At the rear of the blacksmith shop there appears to be a small lean-to, possibly a coal bin. The original photograph and negative are from M. Stratton's album, 23-3, located at the Hoover Presidential Library, West Branch, Iowa.

Wm. Miles, photographer



R-47, HERBERT HOOVER BIRTHPLACE, ca. 1930. View looking on southwest showing Hoover's birthplace attached to the rear of a two-story, late period structure. Note the change in coursing of the siding, which indicates the siding was not all applied at the same time. The original photograph is at the Hoover Presidential Library, West Branch, Iowa (reference 1930-3B); copies are with S. Larson, Rural West Branch, Iowa, and in the M. Stratton albums, located at the Hoover Presidential Library.

Photographer unknown



BIRTHPLACE OF HERBERT MOOVER
WEST BIRANCH, IA.

R-48, HERBERT HOOVER BIRTHPLACE, ca. 1937. View looking on northwest showing Hoover's birthplace on its original site. The clapboards have been removed, revealing the original boards and battens. (The clapboards were nailed through the battens.) The vertical rows of nail holes (10 holes = 44 inches) indicate that the present boards and battens are original. Under the peeling white paint, there appear to be gray weathered boards. A detailed investigation should be made to determine if white paint or whitewash was used, and if there is a dark paint under the white. The original photograph is from M. Stratton's albums, at the Hoover Presidential Library, West Branch, Iowa. A copy of the negative is also at the library (reference 1937-62).

Photographer unknown



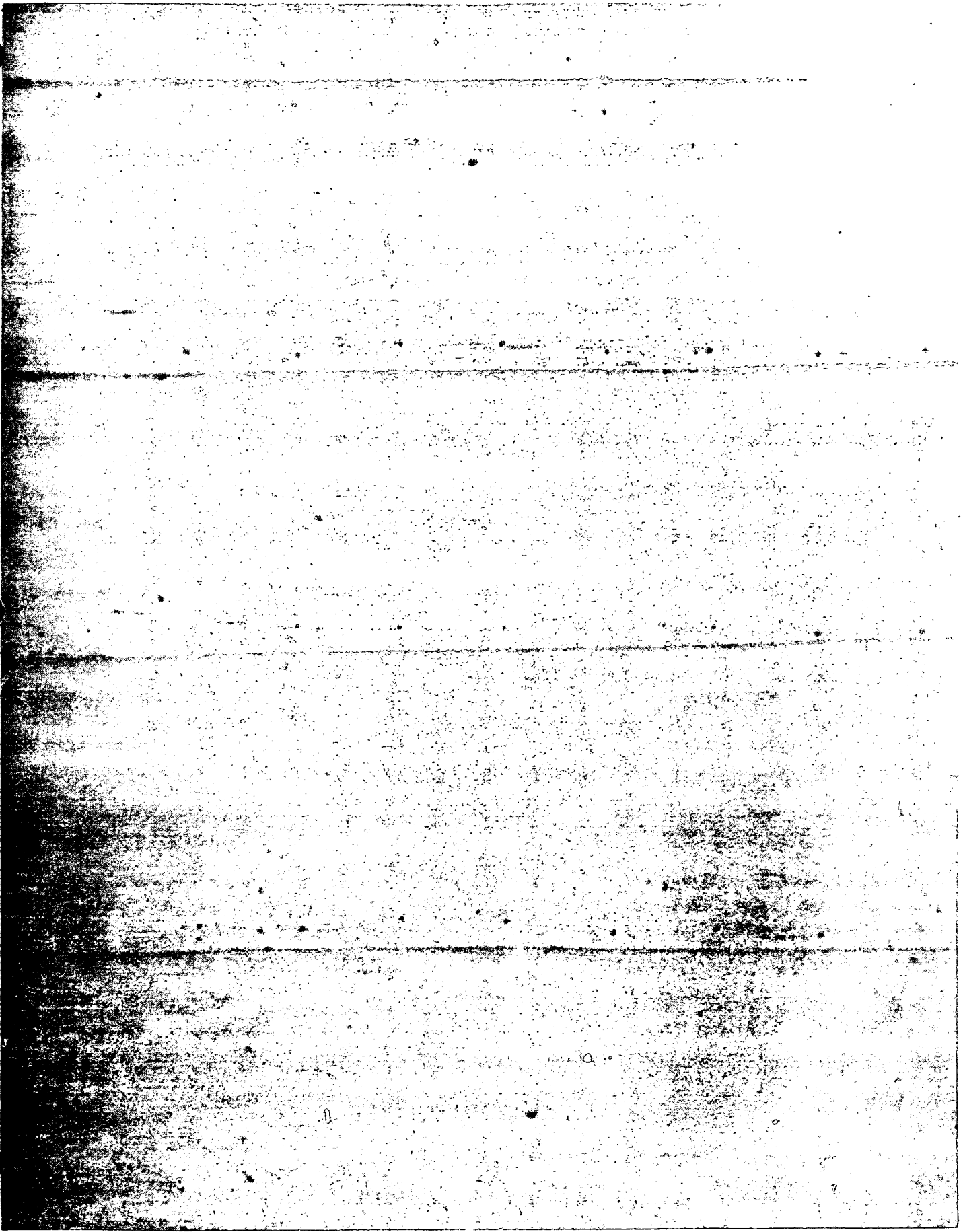
R-49, HERBERT HOOVER BIRTHPLACE, ca. 1960. View looking on northeast and showing the rear of Hoover's birthplace, the Laban Miles house, and a portion of the Dr. Leech house. The original negative is with W. Wagner, Des Moines, Iowa.

W. Wagner, photographer



R-50, HERBERT HOOVER BIRTHPLACE, 1978. This view of an area on the south end of the birthplace shows nail holes made by nailing clapboards. Note also the peeling paint. The original negative is with W. Wagner, Des Moines, Iowa.

W. Wagner, photographer



APPENDIX E: LAWS, POLICIES, AND PLANNING DECISIONS

LEGISLATIVE ORIGINS

The Herbert Hoover National Historic Site was established August 12, 1965, by enactment of Public Law 89-119 (16 USC 461), "in order to preserve in public ownership historically significant properties associated with the life of Herbert Hoover." Section 3 of this act directs the secretary of the interior to "administer the Herbert Hoover National Historic Site in accordance with the Act approved August 25, 1916 (39 Stat. 535), as amended and supplemented, and the Act approved August 21, 1935 (49 Stat. 666)."

The National Park Service Organic Act of 1916 (Public Law 64-235; 39 Stat. 535) decreed

That there is hereby created in the Department of the Interior a service to be called the National Park Service. . . . The service thus established shall promote and regulate the use of the Federal areas known as national parks, monuments, and reservations hereinafter specified by such means and measures as conform to the fundamental purpose of the said parks, monuments, and reservations, which purpose is to conserve the scenery and the natural and historic objects and the wild life therein and to provide for the enjoyment of the same in such manner and by such means as will leave them unimpaired for the enjoyment of future generations.

The Historic Sites Act of 1935 (Public Law 74-292; 49 Stat. 666; 16 USC 461-467) directs that the secretary of the interior, under section 2 (f), "restore, reconstruct, rehabilitate, preserve, and maintain historic or prehistoric sites, buildings, objects, and properties of national historic or archaeological significance."

The National Historic Preservation Act of 1966 (Public Law 89-665; 80 Stat. 915; 16 USC 470) declares the importance of preserving the historical and cultural foundations of the nation and decrees an accelerated federal involvement in historic preservation efforts, historic preservation being defined in title I, section I(b-3), to include "the protection, rehabilitation, restoration, and reconstruction of districts, sites, buildings, structures, and objects significant in American history, architecture, archeology, or culture."

The intent that the government have custody and jurisdiction over historic cultural resources of national significance is established in Public Law 59-209, which authorizes the president of the United States, "in his discretion, to declare by public proclamation historic landmarks, historic and prehistoric structures, and other objects of historic and prehistoric interest that are situated upon lands owned or controlled by the Government of the United States." This act further authorizes the secretary of the interior "to accept the relinquishment of such tracts in behalf of the Government of the United States . . ." when such tracts are held in private ownership.

The intent that the federal government be active in the field of historic preservation and that this involvement include not only preservation but also restoration, rehabilitation, reconstruction, and maintenance of historic properties is reiterated in section 1 of Executive Order 11593 (May 31, 1971):

The Federal Government shall provide leadership in preserving, restoring and maintaining the historic and cultural environment of the Nation. Agencies of the executive branch of the Government . . . shall . . . initiate measures necessary to direct their policies, plans, and programs in such a way that federally owned sites, structures, and objects of historical, architectural or archaeological significance are preserved, restored and maintained for the inspiration and benefit of the people.

The creation of the Herbert Hoover National Historic Site is clearly within the legislatively established intent of Congress that sites and their constituent structures of historic significance to the nation be preserved unimpaired for the inspiration, benefit, and enjoyment of future generations.

NATIONAL PARK SERVICE PLANNING DOCUMENTS

A variety of official documents and actions have officially established and progressively refined the definition, scope, and intent of development of the Herbert Hoover National Historic Site, and they have outlined the means by which this development was to be accomplished. These documents were developed in response to the legislation authorizing establishment of the national historic site and previous legislation which determines the authority and responsibility of the secretary of the interior with respect to the preservation of historic cultural resources entrusted to his care. They also take into account treatment of the resources themselves, based on a physical examination and evaluation of the resources by various professionals of the National Park Service.

These documents contain specific references to the 11 core area historic structures. This information, along with general administrative policies of the National Park Service regarding work on historic structures, and historical, archeological, and architectural research in the field, is the basis for the individual design decisions and recommendations that are made in this report.

Early Documents

Among the earliest planning documents was the 1965 proposal for the Herbert Hoover National Historic Site. In regard to the historic core area structures, this document called for removal of all nonhistoric structures from the area and regrouping of historic or historically contemporary structures near the birthplace (p. 11).

Master Plan Brief

In 1966 the National Park Service issued a Master Plan Brief, which called for the retention of residences architecturally characteristic of the historic period. It also provided for their continued occupancy under conditions ensuring preservation of their historic external appearance (p. 7). A major management consideration is the preservation in the birthplace vicinity of selected "period style" residences to retain historic village aspects (p 5).

The document also calls for the re-creation and maintenance of the historic scene in the immediate vicinity of the birthplace cottage. This would require research of conditions existing at the time of Hoover's birth, and acquisition and preservation of dwellings within the proposed boundary having historic period style to help maintain appropriate village aspects. These dwellings are to be occupied by NPS employees or other tenants, and they are not to be modernized on the outside.

The document further calls for houses to be retained or relocated for a village atmosphere in the birthplace vicinity. Thus, from the beginning of the planning process, the National Park Service has never intended to restore the core area to its exact historic form and condition, but only to re-create a credible facsimile of a village atmosphere typical of the period. This intention is reinforced in other excerpts from this and later NPS documents that establish the character of the development. The brief calls for simpleness and informality to prevail throughout the development of all grounds and structures. The architecture should be a forthright expression of function; forms and materials should echo those in existing nearby structures so as to produce the desired impression of unity within the historic site and affinity with surroundings; embellishments should be restrained; an appropriate and distinctive motif should be used consistently in the design of signs and other smaller structures to help visitors retain an impression of the area's integrity and individuality.

Finally, this document states that several "period style" houses, to be selected from those houses that will have to be moved, will be placed so as to re-create a semblance of the village environs.

Master Plan

The Master Plan, Herbert Hoover National Historic Site, approved in 1969 and published in 1970, states that the National Park Service will be responsible for the restoration of the historic area and all other historic houses to be preserved (p 11). In carrying out this responsibility, the National Park Service, regrouped two historic houses to create an assemblage that provides a historical setting for the birthplace home and serves as a buffer between the resulting historic zone, or core area, and the adjacent modern town of West Branch.

Creation of a typical neighborhood setting, and not the absolute restoration of what had actually existed, as previously stated, is the guiding principle and the method of depicting the environs of the

birthplace cottage. The cottage is not in an empty park, but rather "one of many small houses located in the neighborhood" as Mr. Hoover explicitly requested.

Interpretive Prospectus

The "Interpretive Prospectus" for the historic site, approved in 1971, states that in addition to the major structures, the 11 other period houses in the core area "will be preserved and restored for the sake of their contribution to the historic scene. Their restoration will not be totally accurate; it will be a restoration for the sake of spirit, rather than fact. The structures should find adaptive use" (p 1). The prospectus further states that interpretation will communicate the character of the people and the quality of the life environment that made up Hoover's world for the first 11 years of his life (p 2).

Thus, both the treatment and use of the structures were established early in the conceptual planning for the site. This early intent is repeated in the List of Classified Structures (1975).

Addendum to the Master Plan

In 1977 the National Park Service issued an "Addendum to the Master Plan," which states that the birthplace cottage neighborhood will be maintained to reflect the period of Hoover's boyhood (p. 5).

To accomplish this objective, "period homes were purchased for inclusion in the historic site to permit the restoration of the historic core area to the appearance of a typical eastern Iowa village of the 1880's."

The 1977 addendum proposed the exterior restoration and interior adaptive restoration for these 11 structures. The development/study package proposal (standard form 10-238) generated by the Midwest Regional Office of the National Park Service and approved April 1, 1977, states that the exteriors of eight houses will be restored to make them compatible with the 1874-1884 period. Three other houses will also have exterior restoration but to the actual year of their construction. All of these structures are of the third order of historical significance, and their restoration will permit development of a neighborhood atmosphere reminiscent of the West ranch of Herbert Hoover's youth.

Clearly the development/study package proposal supports the foregoing planning and development documents, and also the validity of the planning decisions and the evaluative criteria on which those decisions were based. It also communicates the support of the regional director of the Midwest Region and of the site superintendent for these planning decisions, which have been developed in response to the legislative mandate creating the Herbert Hoover National Historic Site.

Summary

In establishing the Herbert Hoover National Historic Site, the legislation requires the secretary of the interior to "preserve in public ownership historically significant properties associated with the life of Herbert Hoover." The use of these properties is to be promoted and regulated in conformance with the fundamental purpose for which these areas are created, that is, "to preserve, restore and maintain them for the inspiration and benefit of the people."

In adhering to this legislatively mandated purpose, the National Park Service has determined that in administering and interpreting the site, "the primary mission is to communicate the character of the people and the quality of the life environment that made up Hoover's world for the first 11 years of his life."

This interpretation is to be handled by various means, one of which is by recreating a semblance of the physical environment reminiscent of what actually existed at the time, for the "inspiration and benefit of the people." In support of this purpose, the National Park Service has commissioned a series of studies and historical research of the site, beginning in 1965 and continuing through 1980. The officially approved planning reports and documents which resulted from these studies all concur in recommending that exterior restoration and interior adaptive restoration is the best method of conserving the 11 core area historic structures.

Further, the documents collectively and explicitly recommend restoring these structures, not to their exact historic appearance at a precise date, but restoring them to re-create a semblance of the village environs in which Hoover was born.

NATIONAL PARK SERVICE DEVELOPMENT POLICIES FOR HISTORIC STRUCTURES

The following National Park Service definitions and standards were in force at the time contracts were awarded for the restoration/adaptive restoration of the 11 historic structures. The order of historical significance and the prescribed level of treatment for each of the core area historic structures has been predetermined by the National Park Service's List of Classified Structures, published in July 1975.

Order of Historical Significance

The 11 core area structures are of the third order of historical significance, which is defined in the 1975 "Management Policies of the National Park Service" as "those resources significant primarily in the presentation and interpretation of the history of a community or locality (part 5, p. 4). The official National Park Service designation of significance for the historic structures at the site was changed in 1978 to category II-b, defined as "resources that meet the basic criteria for listing in the National Register of Historic Places and are of local or park significance (1978 NPS "Management Policies," part 5, p. 4).

Level of Treatment

The approved level of treatment to be afforded the 11 core area historic structures is exterior restoration to re-create a semblance of the village environs in which Hoover was born, and interior adaptive restoration to accommodate continued use of the structures by the public, National Park Service staff, and their families.

The National Park Service's 1975 "Management Policies" define restoration for historic resources as

the process of recovering the general historic appearance of a site . . . or structure by the removal of incompatible . . . accretions and the replacement of missing elements as appropriate. For structures, restoration may be for exteriors and interiors and may be partial or complete (part 5, p. 12).

Those policies go on to state:

Full restoration of a historic structure may be undertaken when essential for public understanding and appreciation of the historical or cultural associations of the park. Partial restoration (usually for adaptive use) may be undertaken when necessary to ensure preservation of the structure or to restore the historic scene, or where desirable for interpretive purposes. In all cases, sufficient historical, architectural and archaeological data must exist to permit accurate restoration, with a minimum of conjecture.

A historic structure, whether preserved in existing form, restored, or reconstructed, may be subject to adaptive use. Adaptive use may be appropriate for structures that are visually important in the historic scene but do not otherwise qualify for exhibition purposes. In such cases, the facade, or so much of the exterior as is necessary, is treated to achieve the management purpose so that it will properly understood from the public view. The interior is usually converted to modern functional use, but original fabric is retained wherever practicable.

Every restoration shall be preceded by detailed documentation of the structure, and any changes made during restoration shall be carefully documented. Original historic fabric shall be safeguarded to the extent possible during and after restoration (part 5, p. 15).

The 1971 NPS "Activity Standards" provide the following definitions:

Partial restoration is the level of treatment accorded a structure for which only parts thereof--external, internal, or in combination--are important in illustrating cultural values at its level of historical significance or that contribute to the values for which the park was established.

Adaptive restoration is the level of treatment accorded a structure which is visually important in the historic scene but does not otherwise qualify for exhibition purposes (part 4, p. 20).

Additions to Historic Structures

National Park Service policy, as defined in the 1975 "Management Policies," determines the acceptability of any proposed additions to historic structures:

Modern additions, such as heating and air conditioning . . . [and] Modern construction may be added to historic structures of the Second and Third Orders of Significance when essential to their continued use. A modern addition should be readily distinguishable from older work; however, the new work should be harmonious with the old in scale, proportion, materials, and color. Such additions shall be as inconspicuous as possible and shall not intrude upon the important historic scene.

Proposals for additions to historic structures are subject to the Procedures for the Protection of Historic and Cultural Properties promulgated by the Advisory Council on Historic Preservation (part 5, p. 18).

Removal or Alteration of Historic Structures

National Park Service policy, as defined in the 1975 "Management Policies," determines the acceptability of any proposed removals from or alterations to historic structures:

No structure in the National Park System may be removed or significantly altered without professional evaluation of its historical, architectural, value according to National Register criteria and formal approval of the Director or his designee. . . . Removal or alteration of a property listed or potentially eligible for listing in the National Register shall be subject to compliance with the Procedure for the Protection of Historic and Cultural Properties promulgated by the Advisory Council on Historic Preservation (part 5, p. 19).

Levels of Investigation

The level of investigation appropriate to historic resource research and evaluation is directly related to the level of treatment prescribed by the approved List of Classified Structures and based on the order of historical significance of each resource. Policy for level of investigation is defined in the 1971 "Activity Standards" as follows:

Most National Park Service studies are mission-oriented--directed at providing data required for a subsequent,

programmed action such as master planning a park or restoring a historic building. The exhaustive study necessary to attain a uniform standard of excellence is not always justified by the relative importance of the subsequent action it supports. . . . In allocating for resource studies, therefore, the Service must ensure a reasonable correlation with the importance of the purpose to be served. As guidelines to aid in achieving this correlation, the following classes [highest to lowest Class: A, B, or C] . . . or investigation govern the scope of projects in history, archaeology, and historical architecture.

In general, the time-consuming and expensive study of Class A is warranted only in Historic Resource Studies for historical area master plans and the full and exact restoration or reconstruction of historic buildings to be used for exhibition purposes. Class B is generally applicable to Historic Resource Studies for natural and recreational area master plans to partial or adaptive restoration of historic structures. Class C is ordinarily sufficient for historic structures designated for preservation only and for all varieties of projects that have been completely researched in the past (part 4, pp. 25-26).

Thus, for the 11 historic structures, a class B level of investigation should suffice. A class B investigation of a historic structure will, depending on the type of resource, accomplish the following:

Historical - study in selected published and documentary sources of known or presumed relevance that are readily accessible without extensive travel and that are of a scope, organization, or content that promises expeditious extraction of relevant data; exposition in no greater detail than directly required by the purpose to be served

Archaeological - surface site examination, with excavation limited to the minimum exposure of subsurface remains required to support informed conclusions about the nature and location of the rest of the subsurface remains; investigation report setting forth data and conclusions directly relevant to the purpose to be served

Architectural - analysis of historical and archaeological findings; visual survey and conclusions, investigation of the building fabric only as essential to answer major structural questions; working drawings and specifications ("Activity Standards," part 4, p. 27)

The research already conducted to document the proposed exterior restoration/interior adaptive restoration, coupled with previously published research findings, already exceeds the requirements and definitions of a class B investigation.

DEVELOPMENT PACKAGE 110 (HEHO) PROJECT DOCUMENTS

In continuing the express intent of these foregoing planning and development documents, the approved "Task Directive" (August 1977), issued under a basic services agreement (CX-2000-7-0048) by the Denver Service Center to the architect/engineer (Wagner, Marquart, Wetherell, Ericsson., Architects) for development package 110 (HEHO) calls for

exterior preservation/restoration and interior adaptive restoration . . . not to restore individual houses as 'museum-piece' examples of Victorian residential architecture, but to recreate a semblance of the immediate scene as it may have appeared during the years of Herbert Hoover's residence in the neighborhood (1874-1884). In pursuing this end, historically accurate and verifiable details are to be used whenever available, but 'informed conjecture' is not to be excluded (p. 2).

The first "Work Directive" (7-0048-77-01) under this basic services agreement, issued by the Denver Service Center, September 30, 1977, directs the architect/engineer to conduct historical (i.e., documentary), archaeological, and physical (i.e., architectural) investigations of each historic structure included in development package 110, as follows:

Title I Services - Historic Structures Report

A. Surveys

The Survey Phase of the work will be the responsibility of the Architect/Engineer with direct assistance of the NPS-HPD staff.

1. Physical investigation of the structural fabric of each building, including mechanical and electrical systems.
2. Recording of findings on survey form and revised 'As-Is' Record Drawings.
3. Recommendations for building stabilization and upgrading, submitted in written report to National Park Service for proposed revisions to Description of the Work in the Task Directive (Appendix No. 1).

B. Schematic Design Phase (Preliminary Historic Structures Report)

The Schematic Design Phase of the work will be the responsibility of the Architect/Engineer, with direct assistance and under the supervision of the NPS-HPD staff, and its products will consist of a preliminary Historic Structures Report for buildings HS-2, HS-4, HS-5, HS-6, HS-7, HS-8, HS-9, HS-10, HS-11, HS-18, and HS-19, containing:

1. Summary of documentary information as it pertains to the structures and their environment.
2. Description and record of existing conditions by measured 'as-is' drawings and recent photographs of the building.
3. Results of preliminary physical investigation of the structural fabric of each building.
4. Description and graphic indication of probable appearance of each structure and its grounds during the historic period.
5. Recommended steps for preservation and restoration, including preliminary drawings.
6. Up-dated Form 10-802 (Package Estimating Detail) providing cost estimates to carry out recommended work.
7. Recommendation for further study, if necessary.
8. Presentation to NPS-HPD of alternative proposals developed during design research.

C. Preliminary Design Phase (Final Historic Structures Report)

The Design Development Phase of the work will be the responsibility of the Architect/Engineer and will consist of the following:

1. Structural System Examination: Determine locations, capacities and required alterations to structurally-active building members and components.
2. Preliminary Architectural Design: Prepare preliminary design plans, elevations, sketches, schedules and a preliminary outline specification.
3. Mechanical Systems Design: Prepare recommendations and preliminary designs for mechanical and electrical systems improvement to each building.
4. Preliminary Engineering Report: Prepare preliminary drawings and preliminary design specifications for structural, electrical, plumbing, heating, air conditioning and security systems.
5. Preliminary Site Development: Prepare a preliminary site development plan for each building.

6. Preliminary Cost Estimate: Prepare a preliminary cost estimate for each building based on the preliminary specifications and plans.
7. Preliminary Recommendations Report: Provide a brief, written summary (on standard government-sized paper) and an oral presentation to NPS-HPD (in Denver) of the proposed historic preservation/adaptive restoration procedures, systems, project costs and schedule for NPS-HPD approval (pp. 2-4).

Thus, a direct linear consistency can be demonstrated between the initial legislative intent in establishing the Herbert Hoover National Historic Site, the express and implied intent of the National Park Service and the regional and site staffs in planning for the development of the site, the express directions given by the Midwest Regional Office to the Denver Service Center, and the intent of the Denver Service Center in defining and awarding contracts for the work to be done in documenting and preparing for the restoration of the 11 core area historic structures. This also demonstrates the consistency between the intent of these approved documents guiding the planning and development, and the preliminary design proposals contained in the sections which follow.

RESTORATION CRITERIA

In attempting to comply with the enabling legislation establishing the historic site, the National Park Service policies for historic preservation in force at the time this project was begun (1977), and with the explicit requirements and intentions of the approved planning documents for the historic site, a variety of criteria were considered with regard to the historic scene and the individual structures.

These criteria constitute the range of considerations brought to bear in the decisionmaking and planning process. Their application represents an attempt to introduce a degree of objectivity and a measure of philosophical consistency in planning the restoration work for the 11 core area historic structures; an attempt to establish comparative criteria for documenting, reviewing, and assessing the effect of proposed changes to historic structures; and an attempt to establish comparative criteria for documenting, reviewing, and assessing the effect of proposed changes to historic properties. These criteria can be broadly categorized as being historical, visual, structural/technical, functional, financial, or legal/administrative in nature, as outlined in the sections that follow.

Historical Criteria

Designated order of significance

Designated level of treatment (preservation, restoration, adaptive restoration, reconstruction, etc.)

Appropriate extent of treatment

Designated historic period and configuration of structure during this period

Significance/relevance of structure to interpretive theme of park

Condition of existing historic fabric and amount of such fabric remaining

Age, significance, condition of physical accretions to historic structure

Effect of proposed use/changes on existing historic fabric or historic scene

Visual Criteria

Appearance of structure during the designated historic period

Effect of proposed changes and use on the historic appearance of historic structure/historic scene

Similarities/dissimilarities between historic appearance, current appearance, and appearance of structure/scene after proposed changes

Structural/Technical Criteria

Characteristics of historic structural/technical elements of building during historic period

Existing physical condition of structural/technical building elements

Changes (repairs, alterations, replacements, additions, etc.) necessary to accommodate proposed type and intensity of use

Functional Criteria

Review of alternative treatments/uses (including relationship to core area activities)

Prior versus proposed use of structure

Suitability/adaptability of physical structure/historic fabric and accretions to functional requirements of proposed type and intensity of use

Financial Criteria

Estimated cost of proposed changes to structure

Programmed funds available

Life cycle cost analysis (episodic capital expenditures versus continuing operating expenses)

Legal/Administrative Criteria

Historic preservation law

Executive orders for historic preservation

Approved National Park Service master planning documents

National Park Service administrative regulations and directives

Building, health, and safety codes (national, state, and local)

Handicapped accessibility requirements

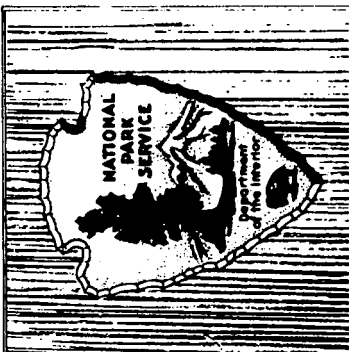
Energy conservation requirements

The relative importance attached to each of the foregoing criteria in evaluating proposed changes to historic properties will, of course, vary from case to case depending on the specific circumstances. The value of this approach is the greater degree of assurance that all relevant criteria will be objectively considered before a decision is made, and that--once made--such a decision can be both critically reexamined and defended in terms of these same criteria.

The application of these criteria, in keeping with the legislative, administrative, planning, and interpretive purposes for which the site was established, is presented in the pages which follow. In all cases, the appearance of each structure during its designated historic period is the overriding consideration in preparing the restoration recommendations. Photographic and physical documentation is sufficient to support the indicated work. Conjecture--even of the informed variety--has not formed the basis for any of these recommendations, temptations to the contrary notwithstanding.

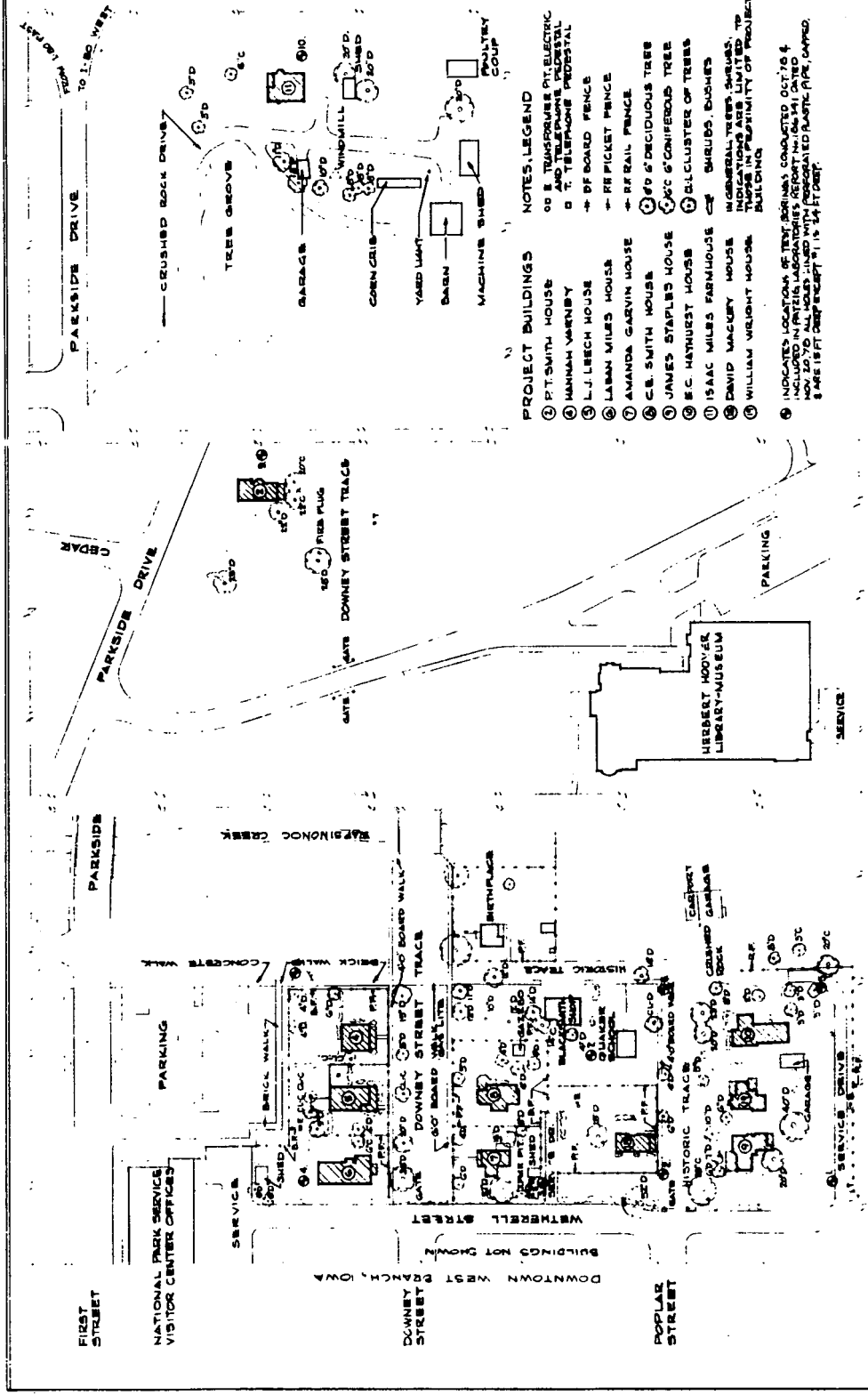
The information contained in this report, in conjunction with the four historic structures reports previously completed by Edwin C. Bearss of the National Park Service, constitute a body of documentary and historical evidence that--used to complement the physical evidence derived from examination of the structures themselves--is more than sufficient to permit restoration in spirit as well as in fact.

APPENDIX F: EXISTING CONDITIONS DRAWINGS



SHEET INDEX

- EXISTING CONDITIONS DRAWINGS NO. 0022339 (SHEETS 1-13/79)
- SHEET 1 (7/79) 100'x150' SHEET / SITE PLAN
 - SHEET 2 (7/79) 0.1 LINTH HOUSE (SHEETS 1-1/79)
 - SHEET 3 (7/79) 0.2 WARRI WAREY HOUSE (SHEETS 1-1/79)
 - SHEET 4 (7/79) 0.3 L.J. LEECH HOUSE (SHEETS 1-1/79)
 - SHEET 5 (7/79) 0.4 L.J. LEECH HOUSE (SHEETS 1-1/79)
 - SHEET 6 (7/79) 0.5 L.J. LEECH HOUSE (SHEETS 1-1/79)
 - SHEET 7 (7/79) 0.6 L.J. LEECH HOUSE (SHEETS 1-1/79)
 - SHEET 8 (7/79) 0.7 L.J. LEECH HOUSE (SHEETS 1-1/79)
 - SHEET 9 (7/79) 0.8 L.J. LEECH HOUSE (SHEETS 1-1/79)
 - SHEET 10 (7/79) 0.9 L.J. LEECH HOUSE (SHEETS 1-1/79)
 - SHEET 11 (7/79) 1.0 L.J. LEECH HOUSE (SHEETS 1-1/79)
 - SHEET 12 (7/79) 1.1 L.J. LEECH HOUSE (SHEETS 1-1/79)
 - SHEET 13 (7/79) 1.2 L.J. LEECH HOUSE (SHEETS 1-1/79)



PROJECT BUILDINGS

- 1 P.T. SMITH HOUSE
- 2 MANNING WAINSBY
- 3 L.J. LEECH HOUSE
- 4 LAMAR MILES HOUSE
- 5 AMANDA GARVIN HOUSE
- 6 C.B. SMITH HOUSE
- 7 JAMES STAPLES HOUSE
- 8 E.C. HATHURST HOUSE
- 9 ISAAC MILES FARMHOUSE
- 10 DAVID MACGURRY HOUSE
- 11 WILLIAM WRIGHT HOUSE

NOTES, LEGEND

- 1. TRANSFORMER PLANT
- 2. TELEPHONE CABINET
- 3. TELEPHONE PEDestal
- 4. BOARD FENCE
- 5. RR PICKET FENCE
- 6. RR RAIL FENCE
- 7. DECIDUOUS TREE
- 8. CONIFEROUS TREE
- 9. CLUSTER OF TREES
- 10. SHRUBS, BUSHES
- 11. MAPLE
- 12. INDICATES LOCATION OF TEST BORINGS CONDUCTED OCT. 70 & NOV. 70. ALL BORINGS HAD WITH FROGGATED PLASTIC PIPE, CAPPED, & THE 1970 TEST REPORT IS ON FILE.

REDUCED SIZE REPRODUCTION

SITE PLAN DRAWN AT 1"=30'-0"



BRAPHINE

PREPARED BY: BRAPHINE

DESIGNED BY: BRAPHINE

DRAWN BY: BRAPHINE

CHECKED BY: BRAPHINE

DATE: NOVEMBER 1978

EXISTING CONDITIONS DRAWING
SITE PLAN - EXIST.
NOVEMBER 1978



WILBERT R. HARRIS
ARCHITECT
PARK VALLEY ASSOC. INC. P.C.
MECHANICAL ENGINEER
CHARLES R. BARNETT
STRUCTURAL ENGINEER

DATE: 11/19/78

PROJECT: HERBERT HOOPER NATIONAL HISTORIC SITE

LOCATION: BETHAN PARK

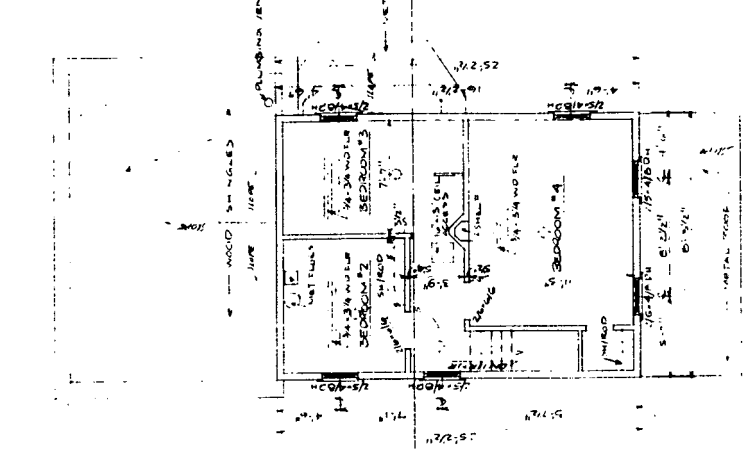
PROJECT NO.	0022339
SHEET NO.	1
TOTAL SHEETS	13
DATE	NOV 1978
CITY	DAVENPORT
COUNTY	DEWITT
STATE	IA

ON MICROFILM

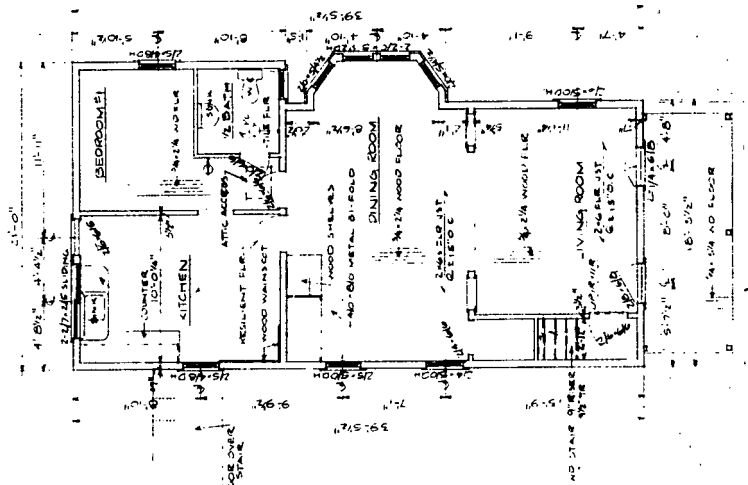


EAST ELEVATION
 1" = 16'-0"

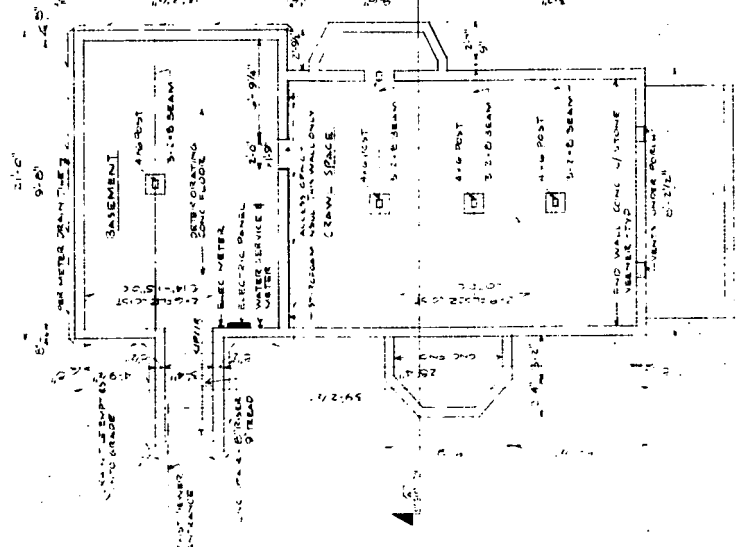
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SECOND FLOOR PLAN



FIRST FLOOR PLAN



BASEMENT PLAN

15/2/09 (SHEET 00/30)
 15/2/09 (SHEET 00/30)

42/2029 (SHEET 02/29)

DOOR ELEVATION SCALE - 3/4" = 1'-0"

FRAME ELEVATION SCALE - 3/4" = 1'-0"

SECTION SCALE - 3/4" = 1'-0"

HEAD (JAMBS SIMILAR)

PLUMB

SILL

WOOD SHINGLE ROOF

LOWER ROOF LEAVE UPPER ROOF SIMILAR

BAY WINDOW ROOF EAVE

SCALE - 3/4" = 1'-0"

SECTION SCALE - 3/4" = 1'-0"

SECOND FLOOR DOOR

ELEVATION SCALE - 3/4" = 1'-0"

SECTION SCALE - 3/4" = 1'-0"

INTERIOR DOORS

BASE

GRAPHIC SEALES

TYPICAL INTERIOR DETAILS

INTERIOR FRAME ELEVATION SCALE - 3/4" = 1'-0"

EXTERIOR FRAME ELEVATION SCALE - 3/4" = 1'-0"

SECTION SCALE - 3/4" = 1'-0"

HEAD (JAMBS SIMILAR)

SILL

WOOD SHINGLE ROOF

LOWER ROOF LEAVE UPPER ROOF SIMILAR

BAY WINDOW ROOF EAVE

SCALE - 3/4" = 1'-0"

SECTION SCALE - 3/4" = 1'-0"

SEE ELEVATION FOR COLUMN CONFIGURATION

WOOD SHINGLE ROOF

LOWER ROOF LEAVE UPPER ROOF SIMILAR

BAY WINDOW ROOF EAVE

SCALE - 3/4" = 1'-0"

SECTION SCALE - 3/4" = 1'-0"

INTERIOR DOORS

BASE

GRAPHIC SEALES

TYPICAL INTERIOR DETAILS

ON MICROFILM



GRAPHIC SCALE
ALL DIMENSIONS IN FEET AND INCHES
1" = 1'-0"

REHABILITATION OF EXISTING CORE AREA BUILDINGS
SURVEY - 1978
EXISTING CONDITIONS
HERBERT HOOPER NATIONAL HISTORIC SITE
WEST BRANCH CEDAR COUNTY, IOWA

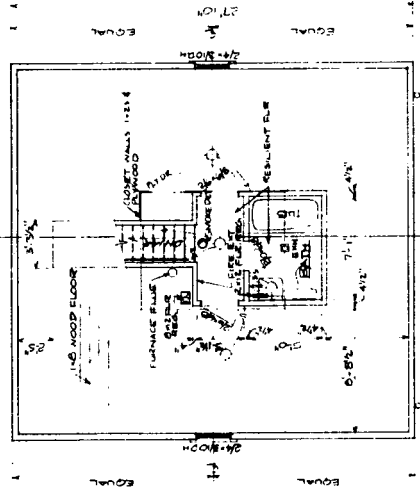
HANNAH VARNEY HOUSE

HS-4

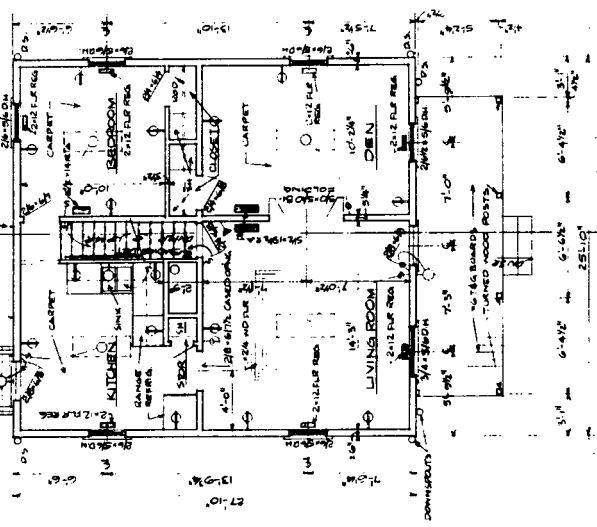
REVISIONS
1. REVISIONS
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9. REVISIONS
10. REVISIONS

11/27/80 (SHEET 05/9)

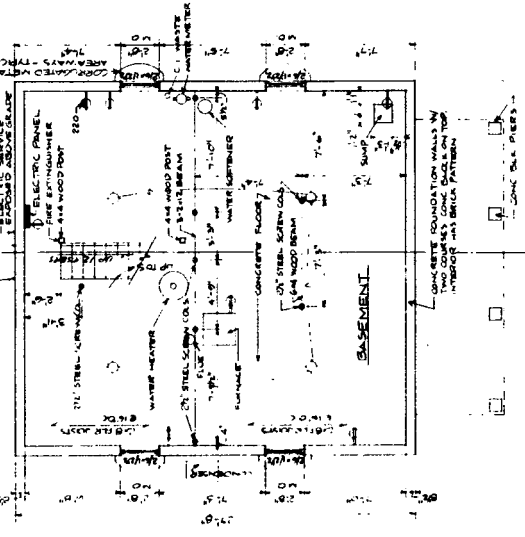
Second Floor Plan

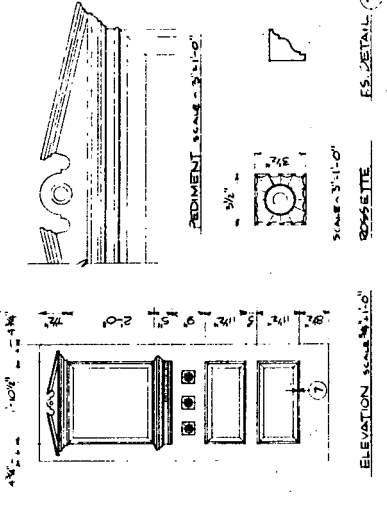


First Floor Plan

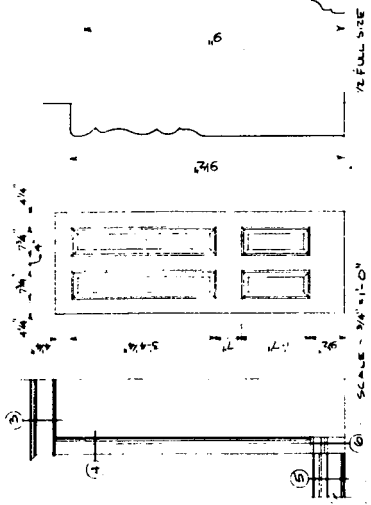


Basement Plan

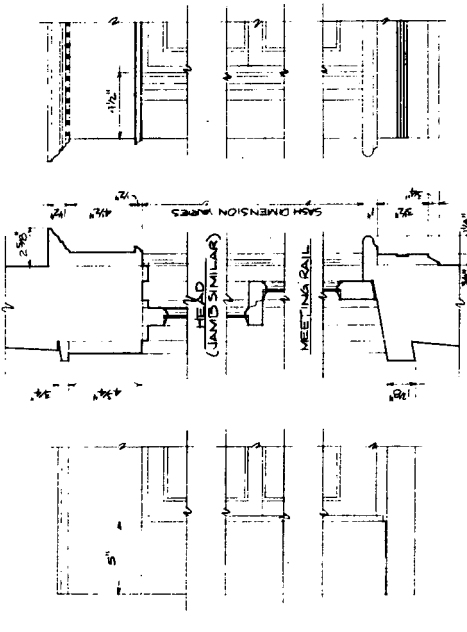




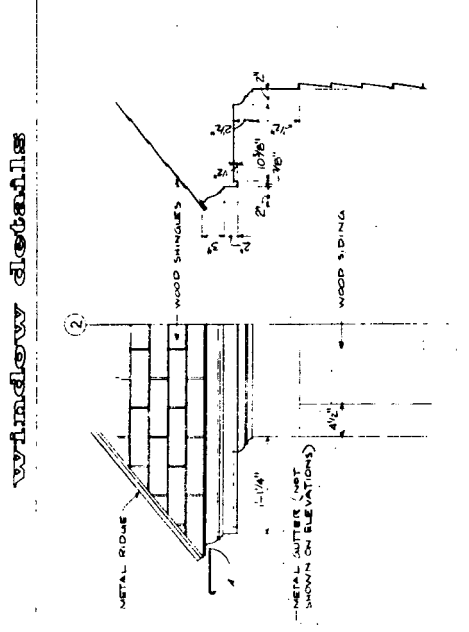
front door details



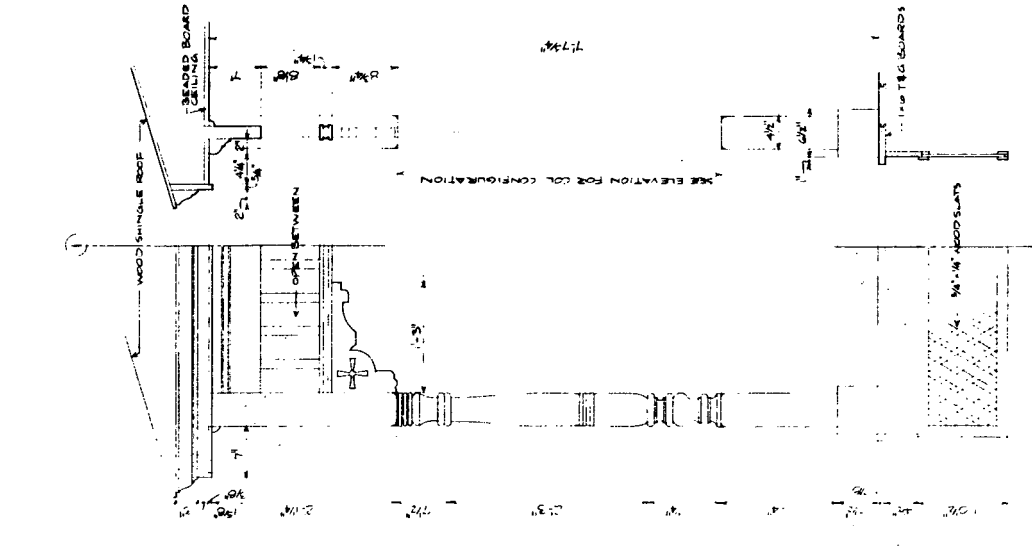
interior doors



window details



roof details

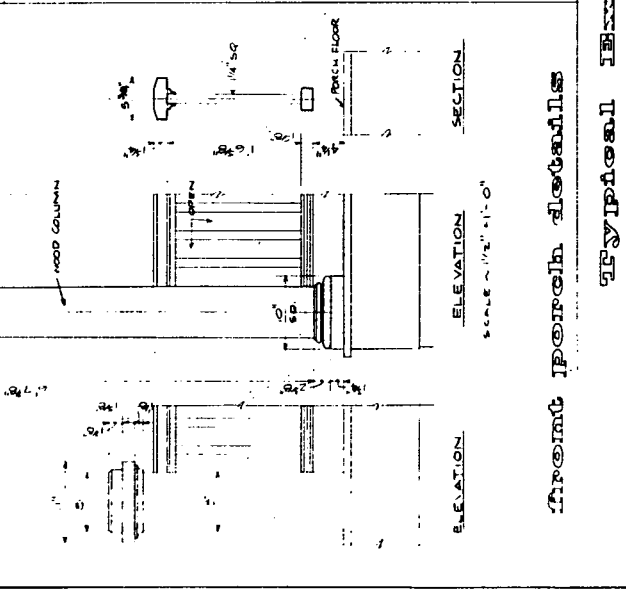
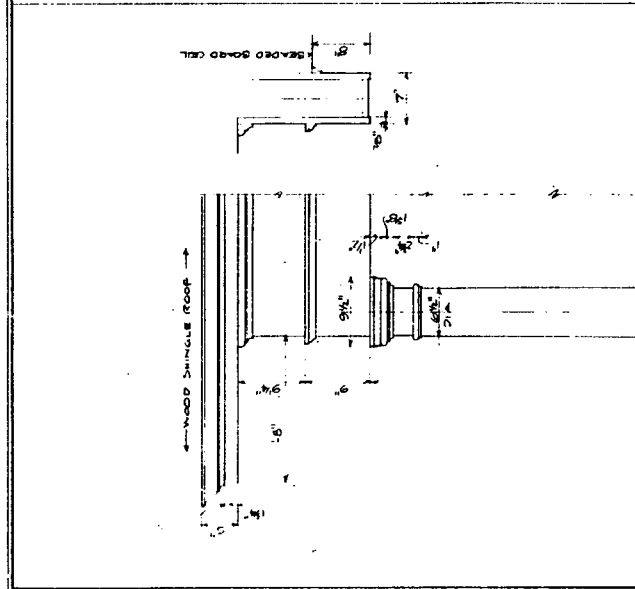
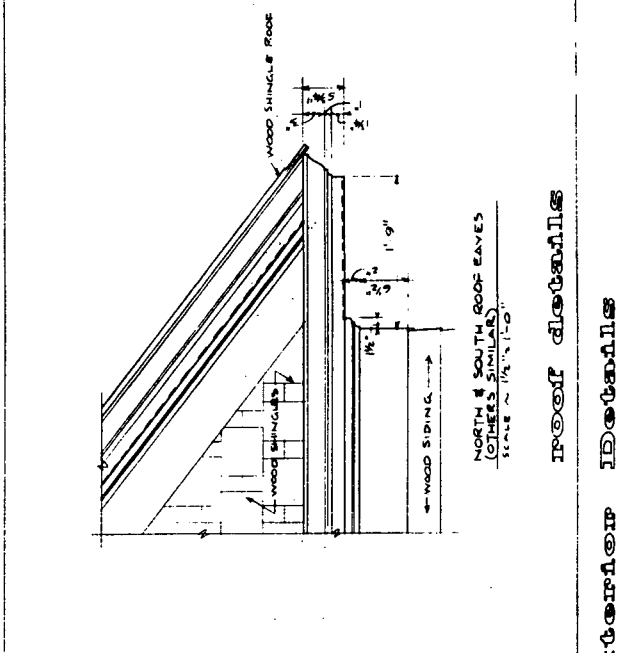
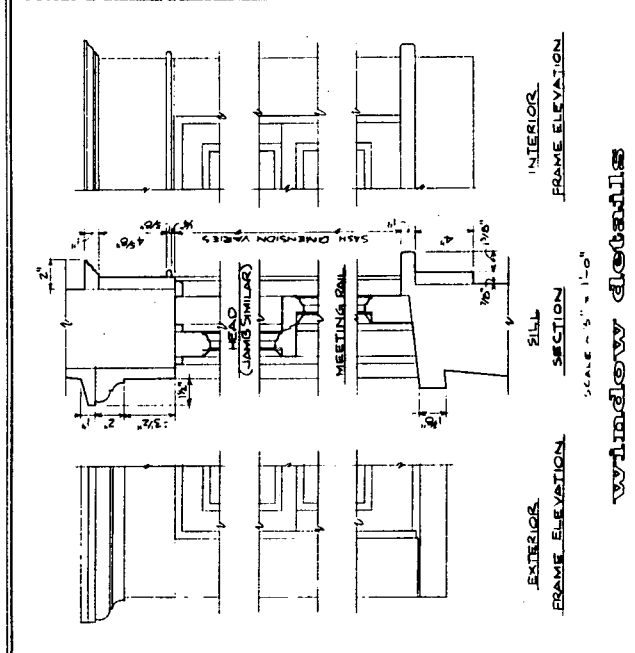
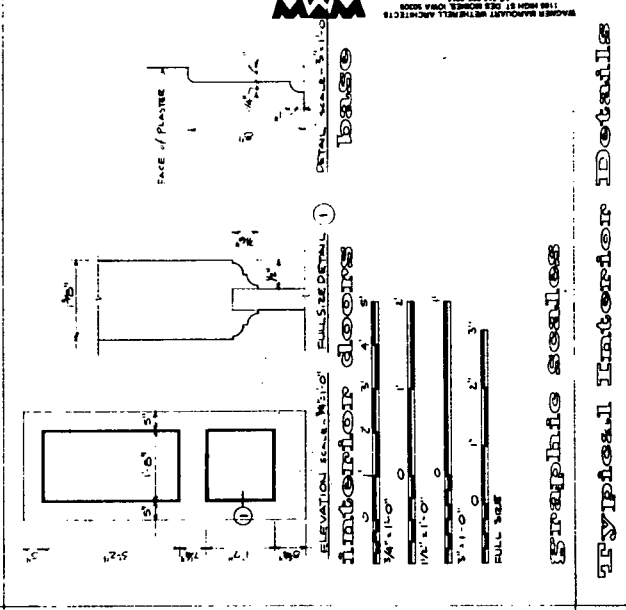
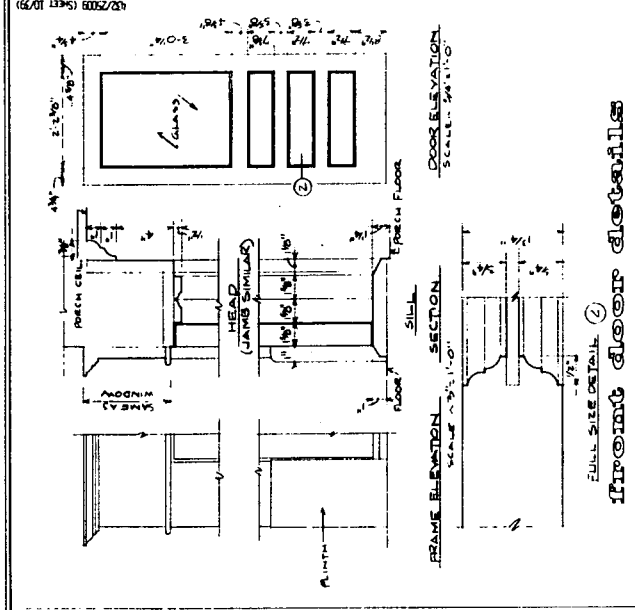


front porch details

Typical Interior Details

Typical Exterior Details

ON MICROFILM



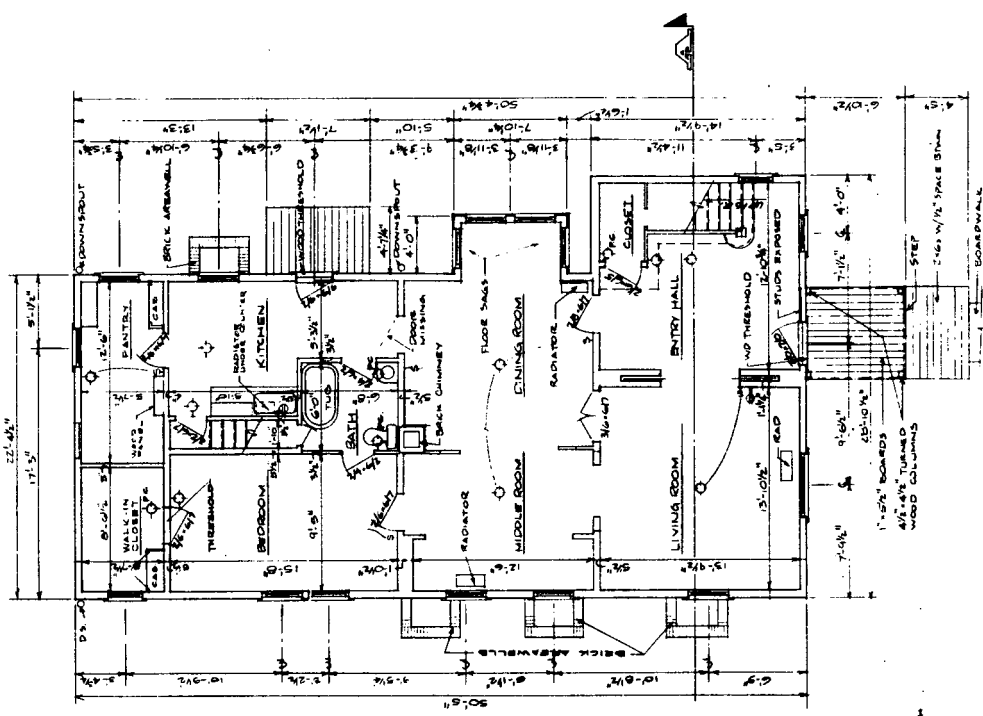
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Typical Interior Details
 Typical Interior Details
 Typical Interior Details
 Typical Interior Details

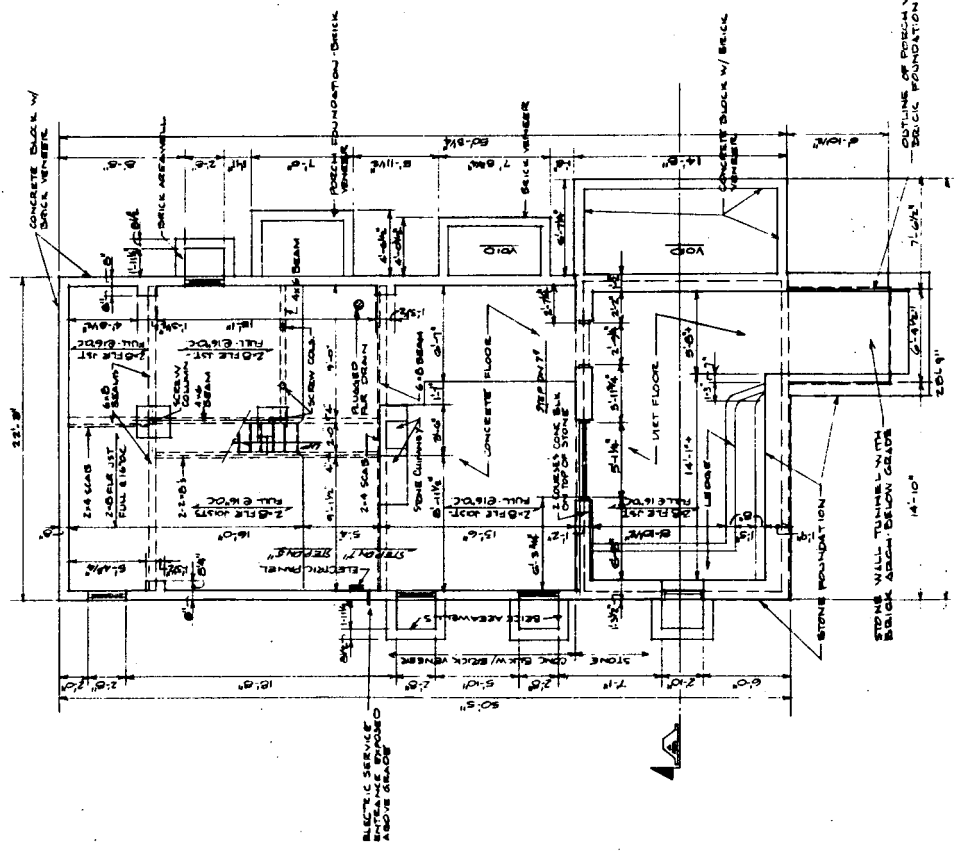


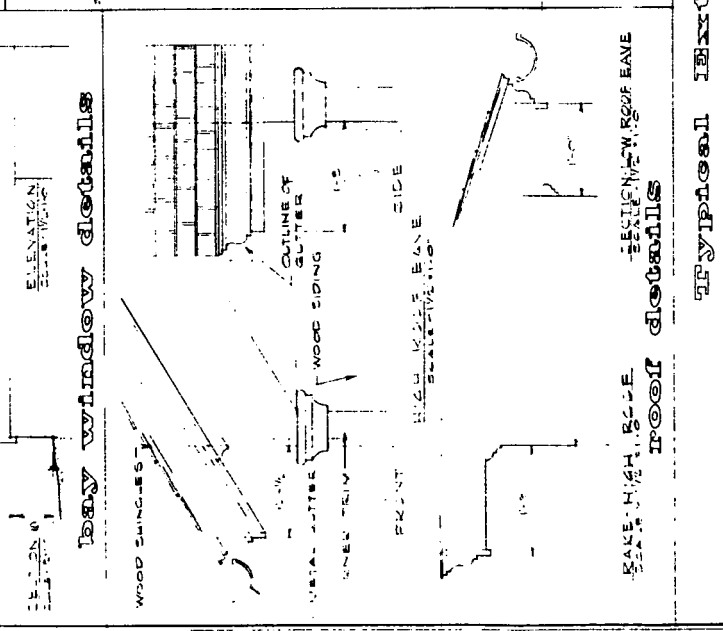
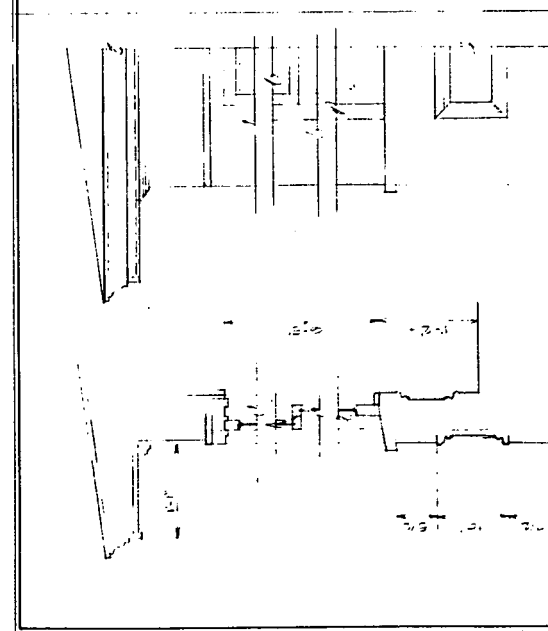
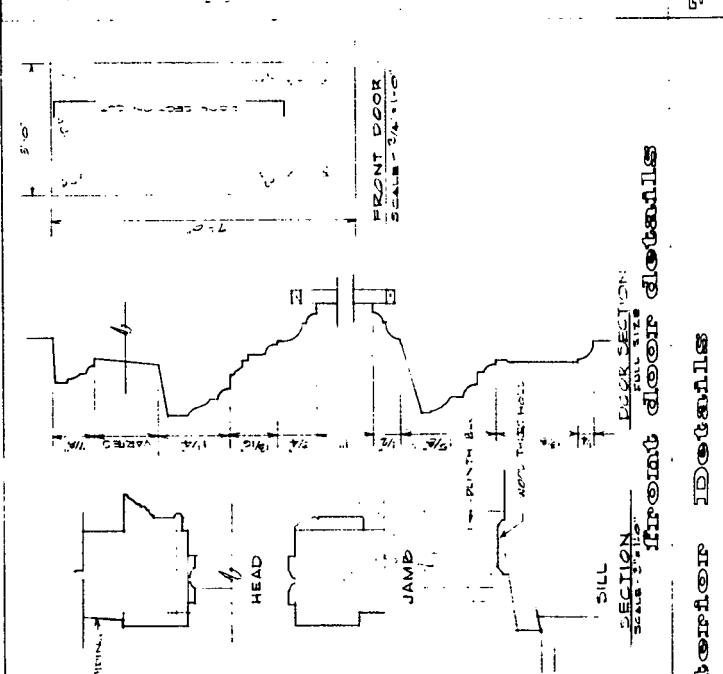
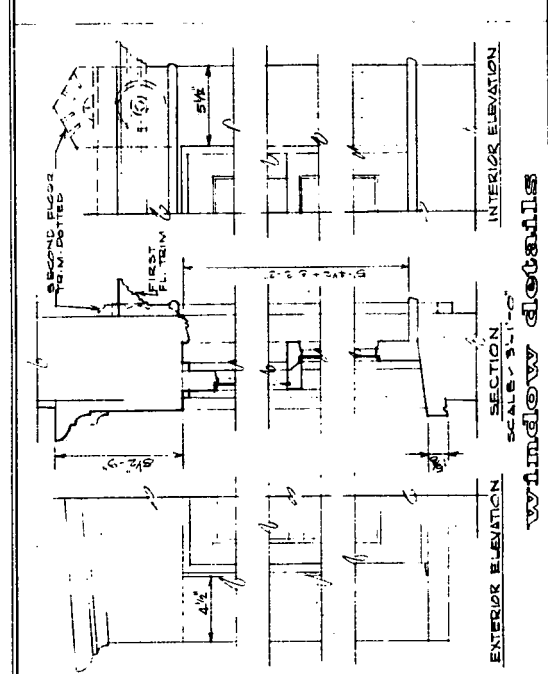
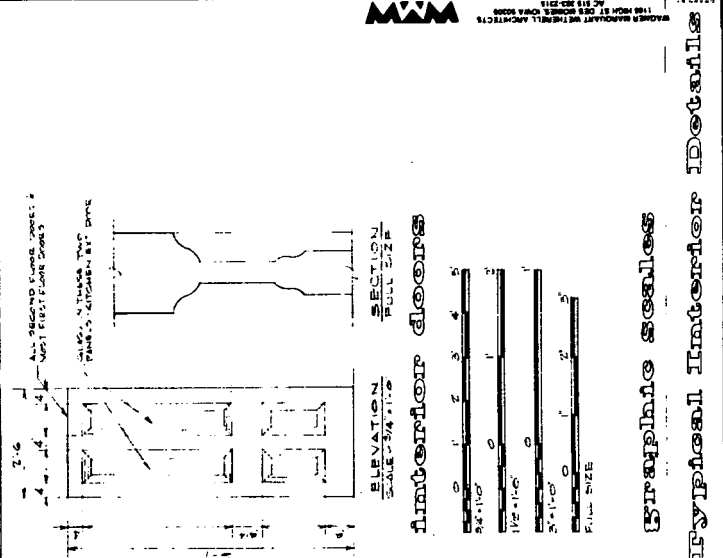
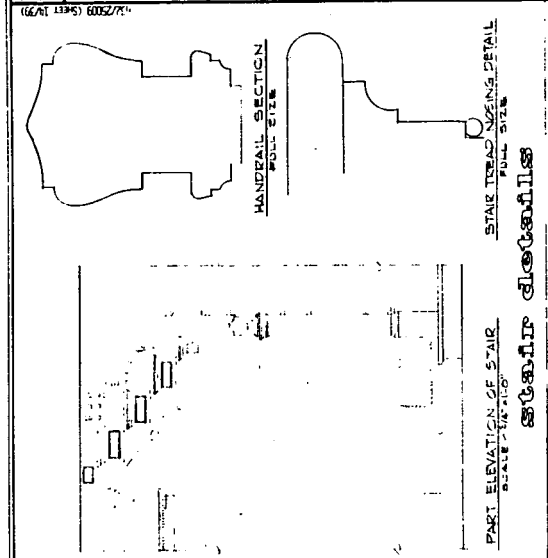
GRAPHIC SCALE
ALL FLOOR PLANS DRAWN AT 1/8" = 1'-0"

FIRST FLOOR PLAN



BASEMENT PLAN



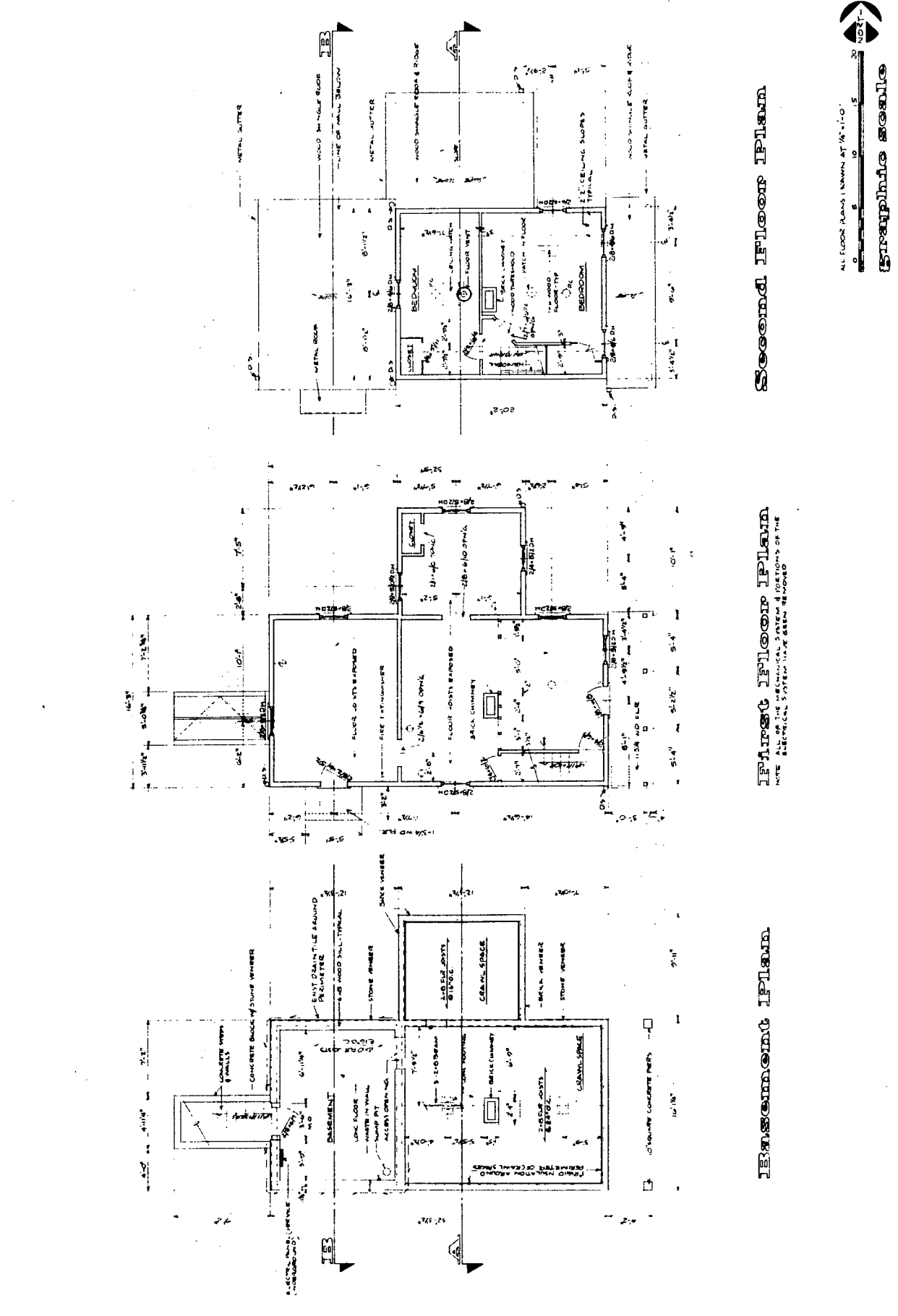


Typical Interior Details

Typical Interior Details

Typical Interior Details

ON MICROFILM

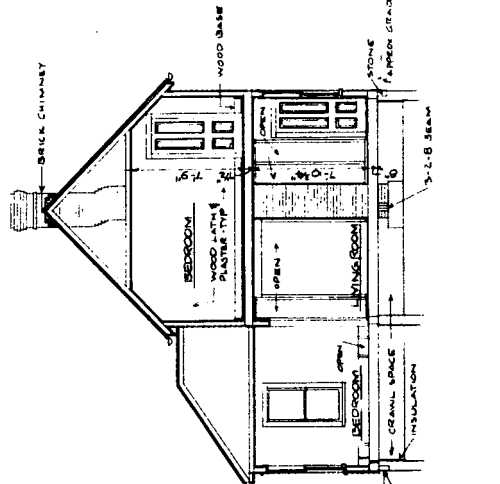


First Floor Plan

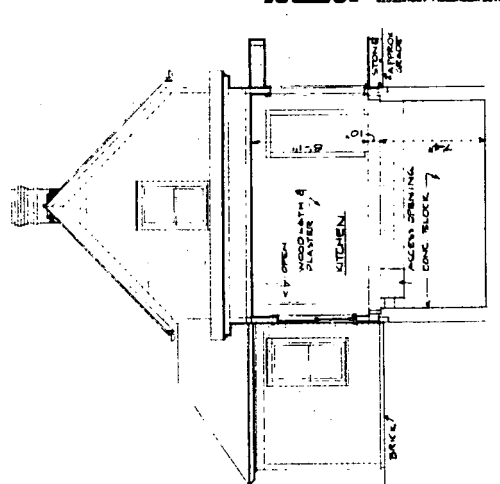
Second Floor Plan

Graphic scale
 ALL FLOOR PLANS DRAWN AT 1/4"=1'-0"

MICROFILM

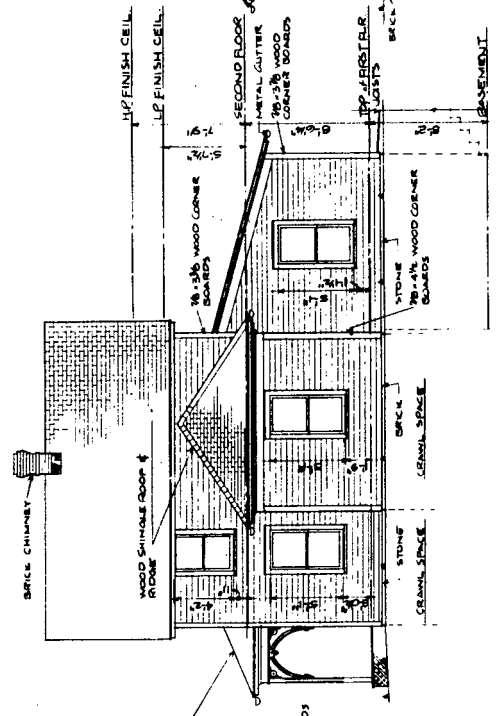


Section A-A

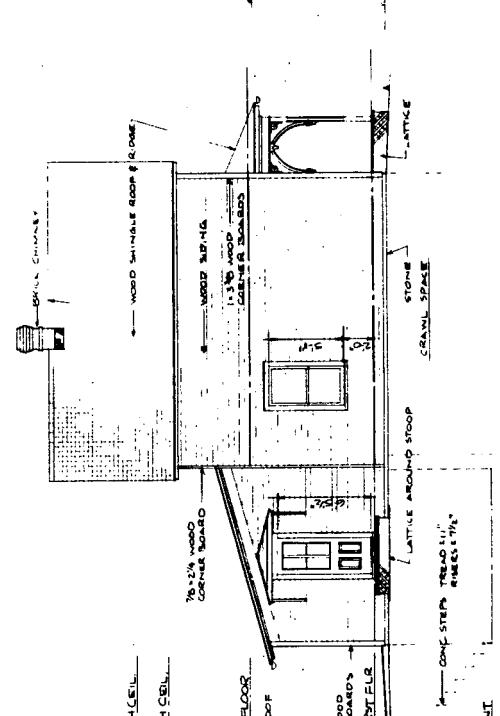


Section B-B

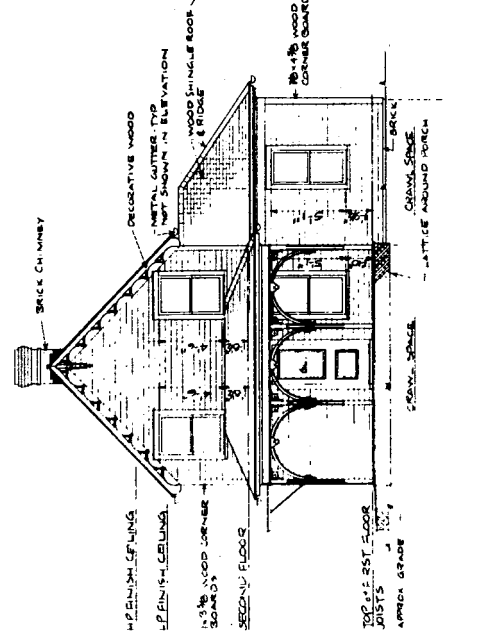
GRAPHIC SCALE
 ALL ELEVATIONS & SECTIONS DRAWN AT 1/4" = 1'-0"



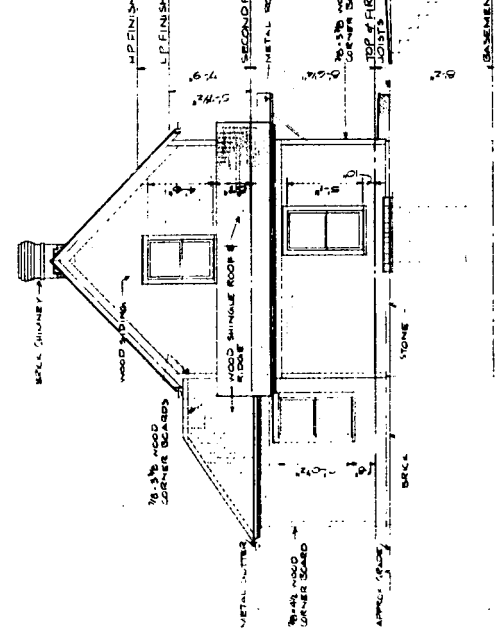
North Elevation



South Elevation

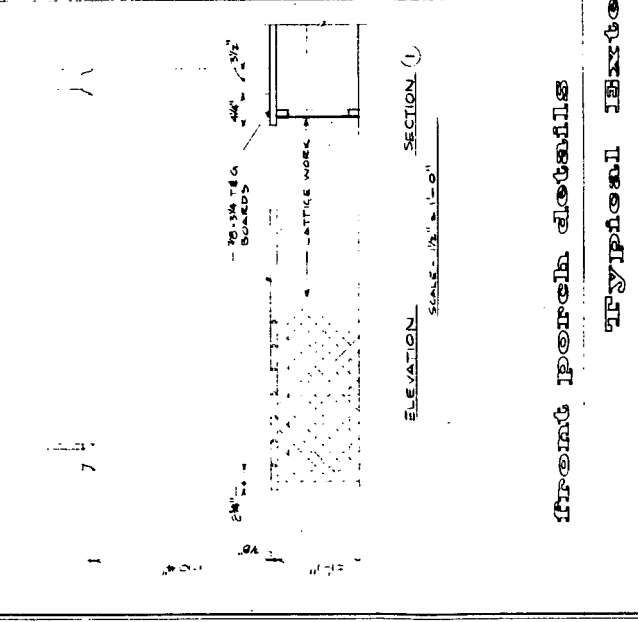
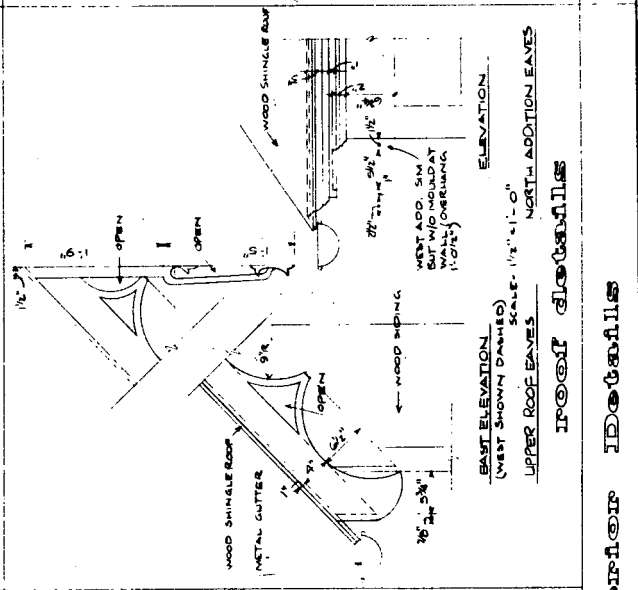
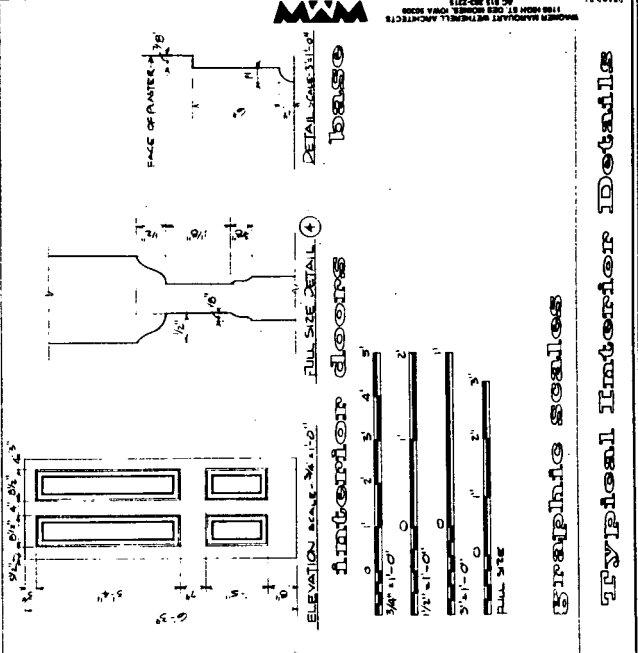
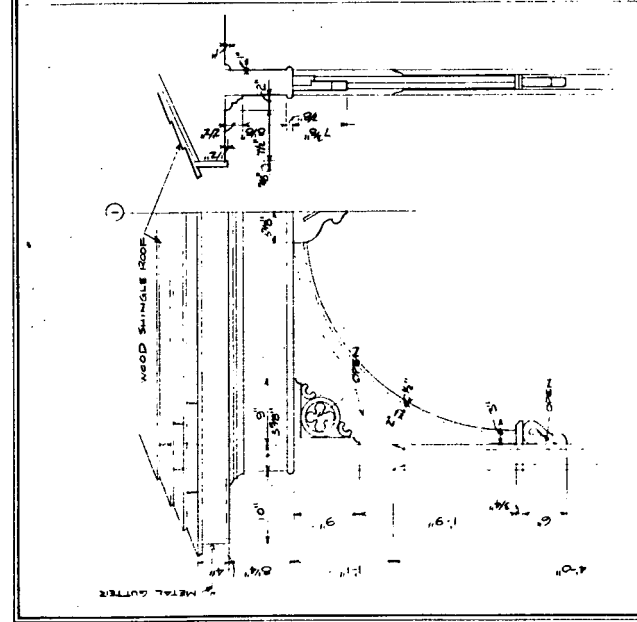
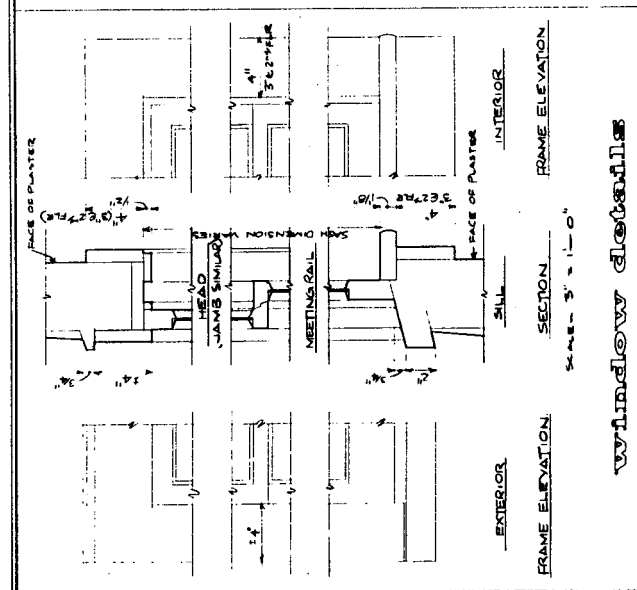
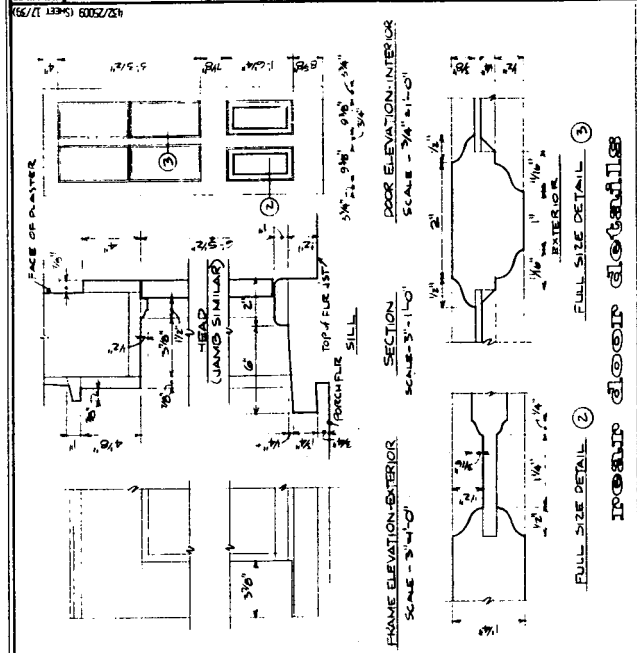


East Elevation

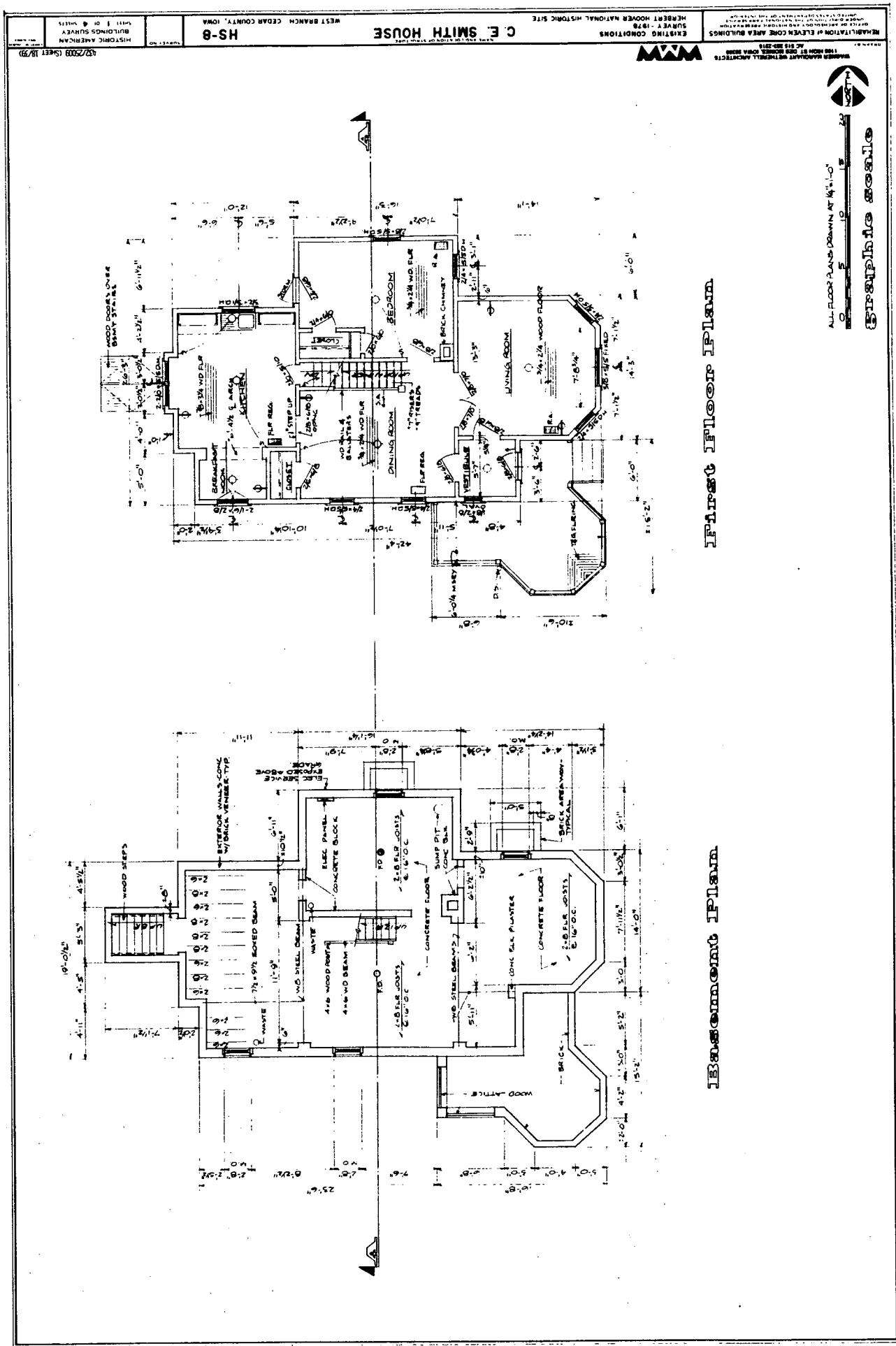


West Elevation

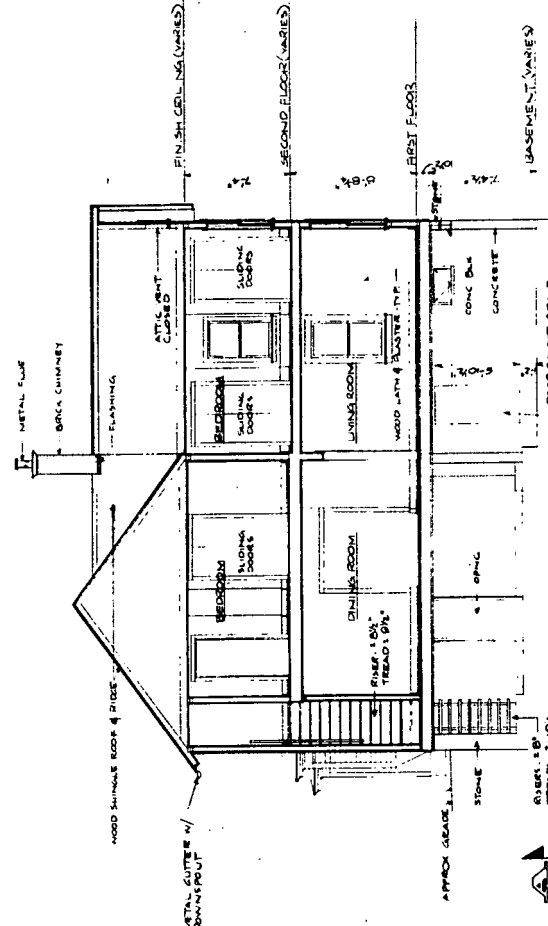
ON MICROFILM



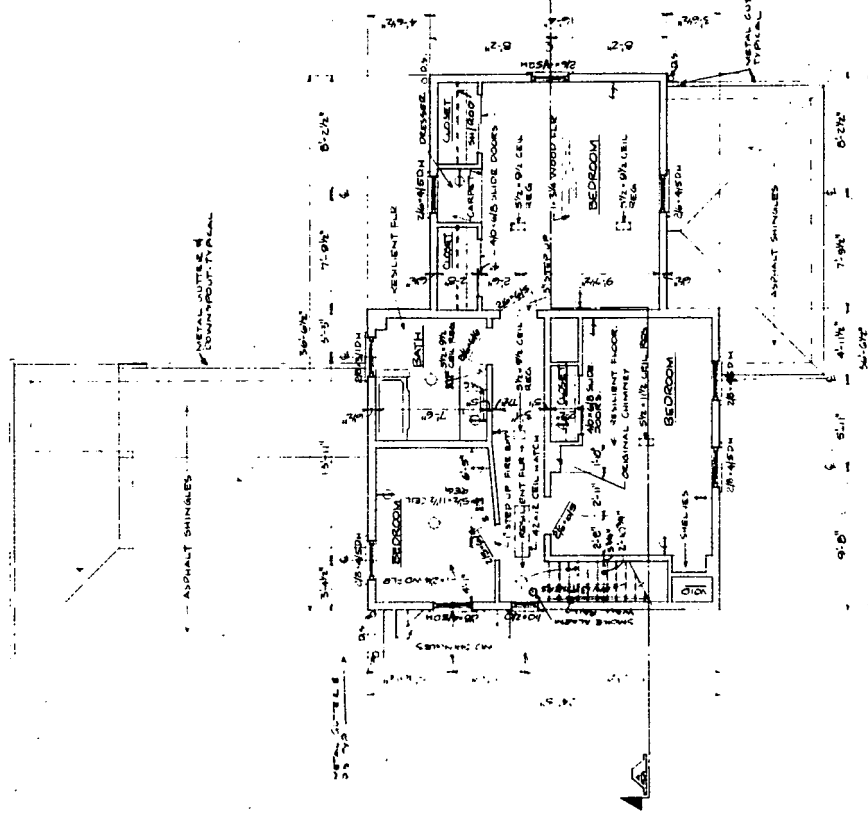
ON MICROFILM



ON MICROFILM



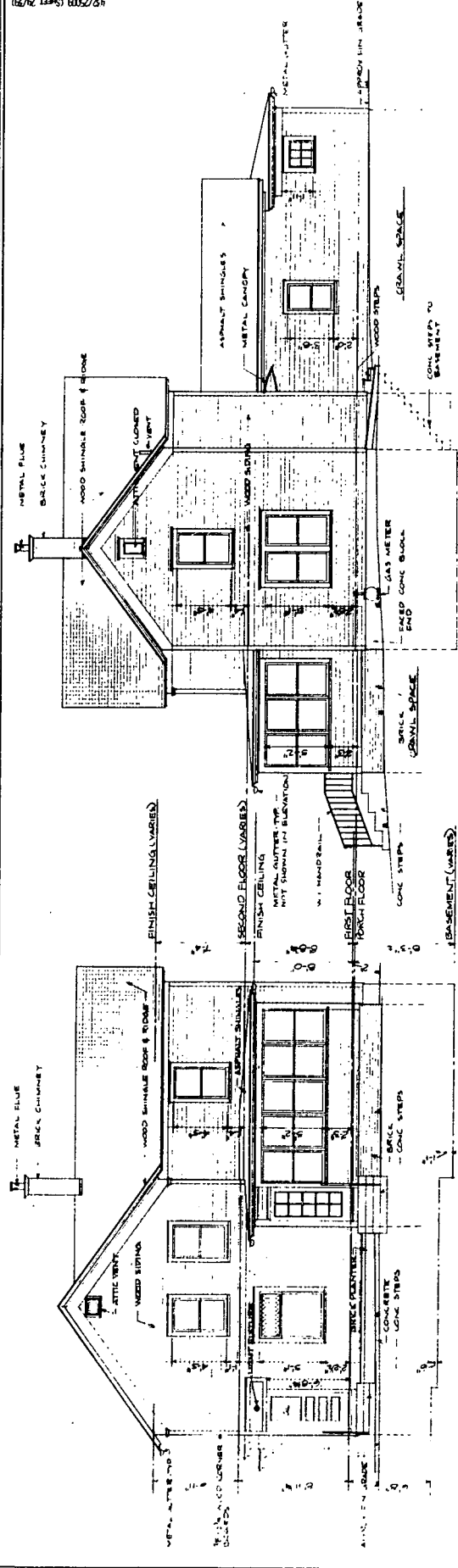
Section A-A



Second Floor Plan

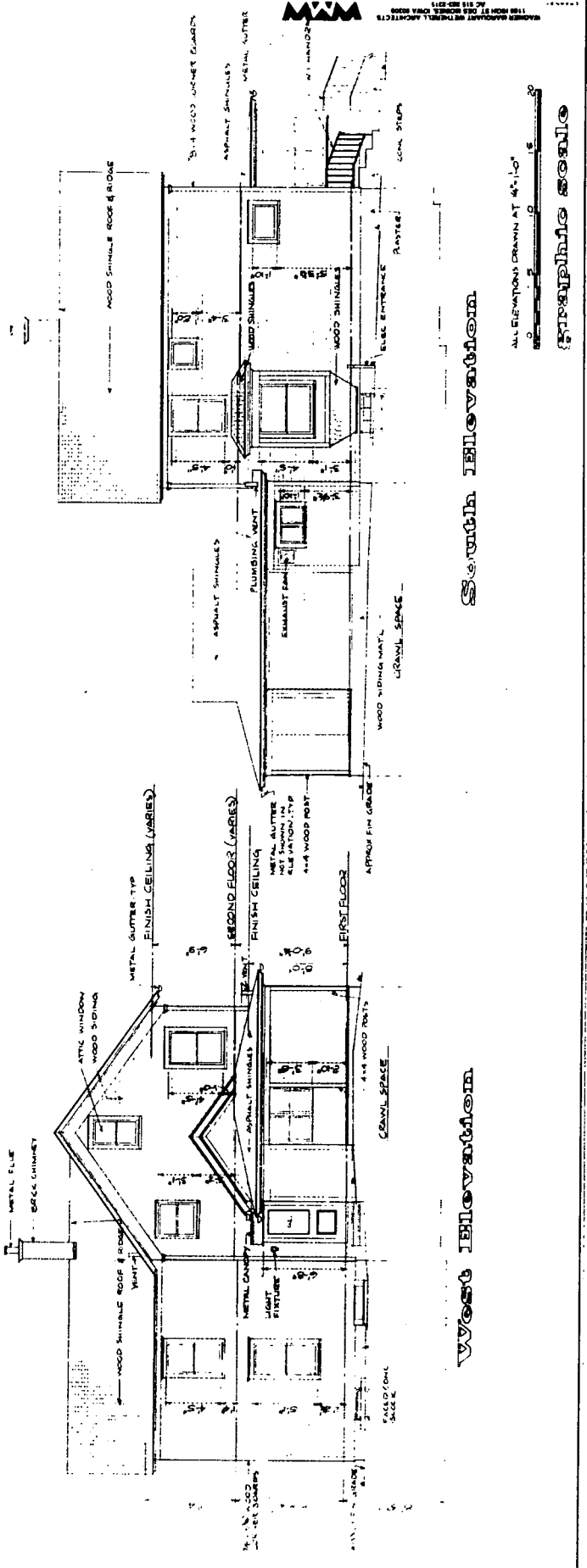
Graphic scale
 0 5 10 15 20
 ALL FLOOR PLANS & SECTIONS DRAWN AT 1/4" = 1'-0"
 NORTH

ON MICROFILM



North Elevation

East Elevation



South Elevation

West Elevation

ALL ELEVATIONS DRAWN AT 1/4" = 1'-0"
 GRAPHIC SCALE

U MICROFILM

ON MICROFILM

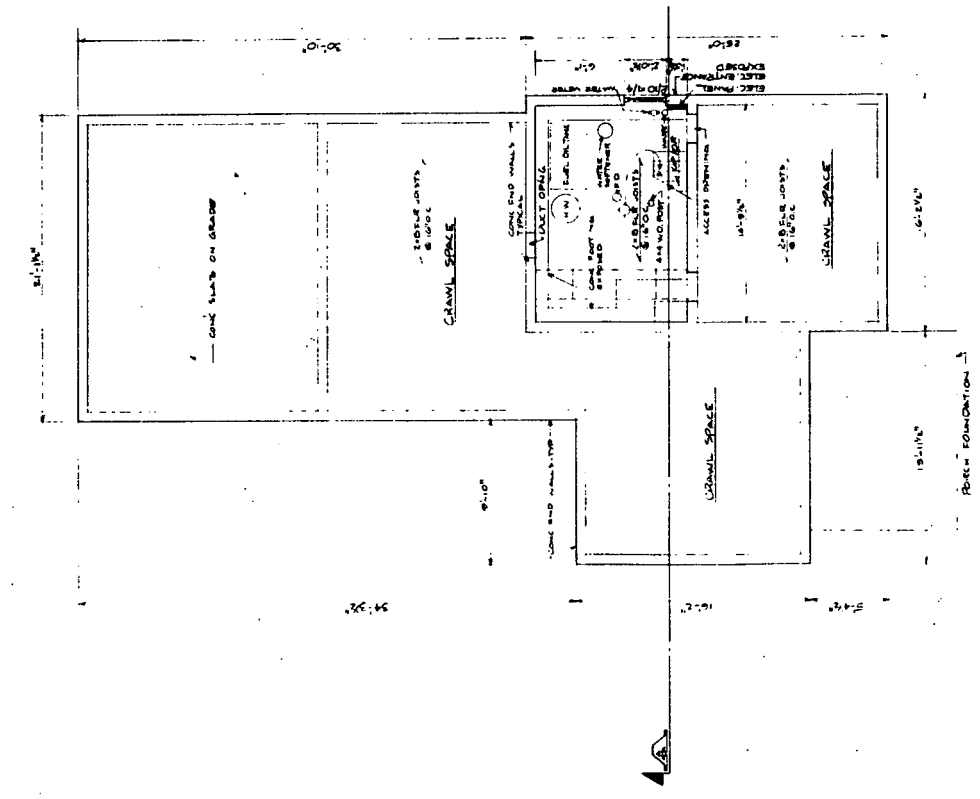
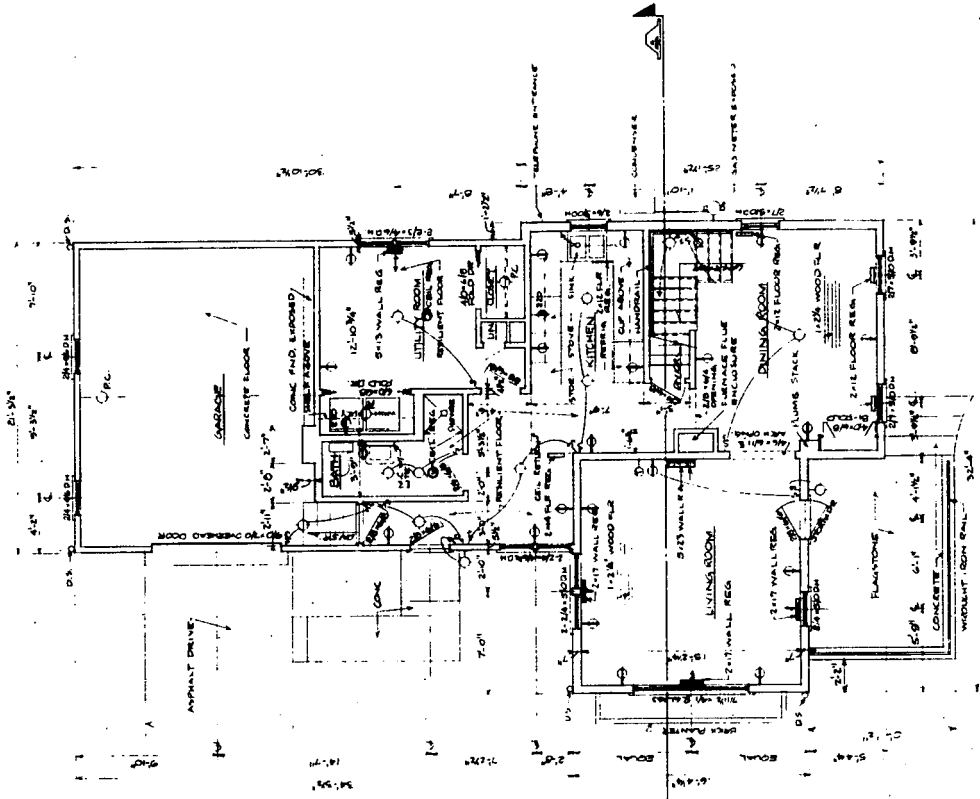


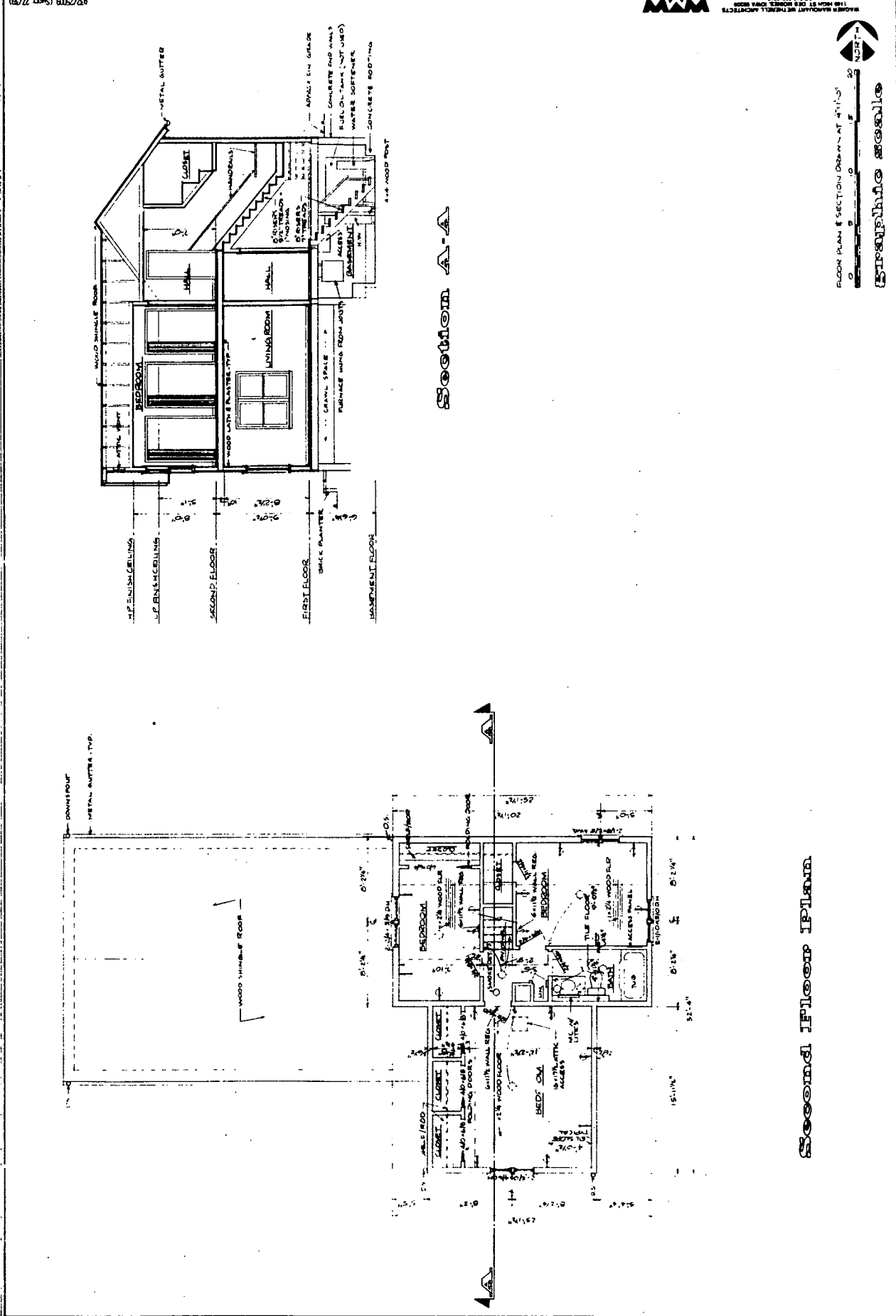
ALL DIMENSIONS IN FEET AND INCHES

GRAPHIC SCALE

FIRST FLOOR PLAN

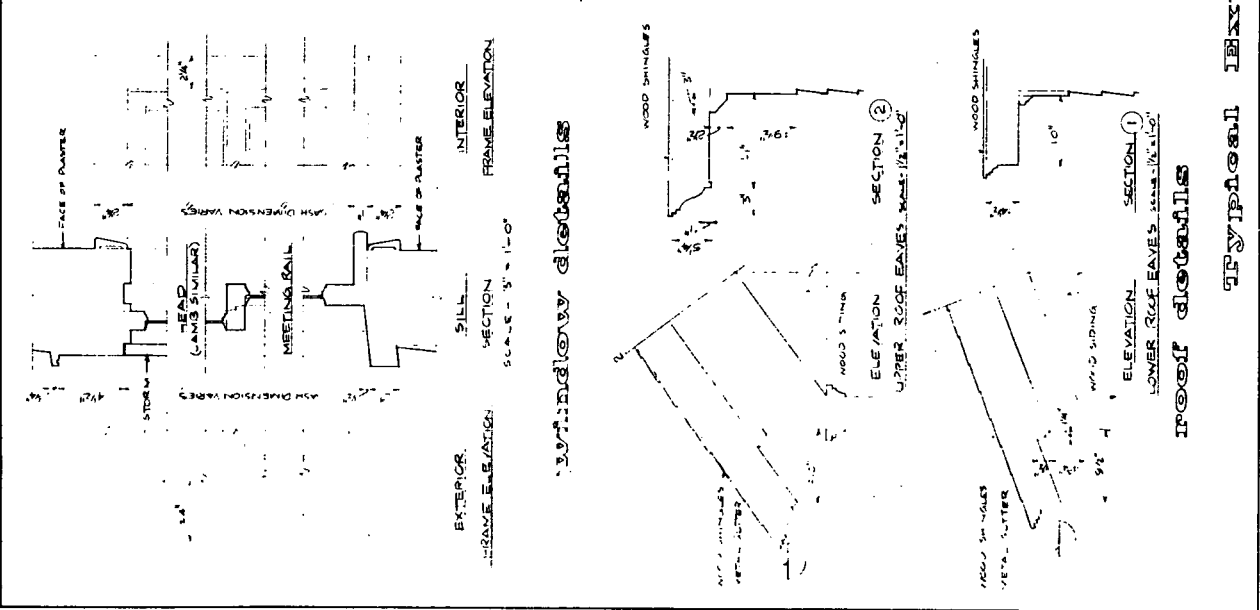
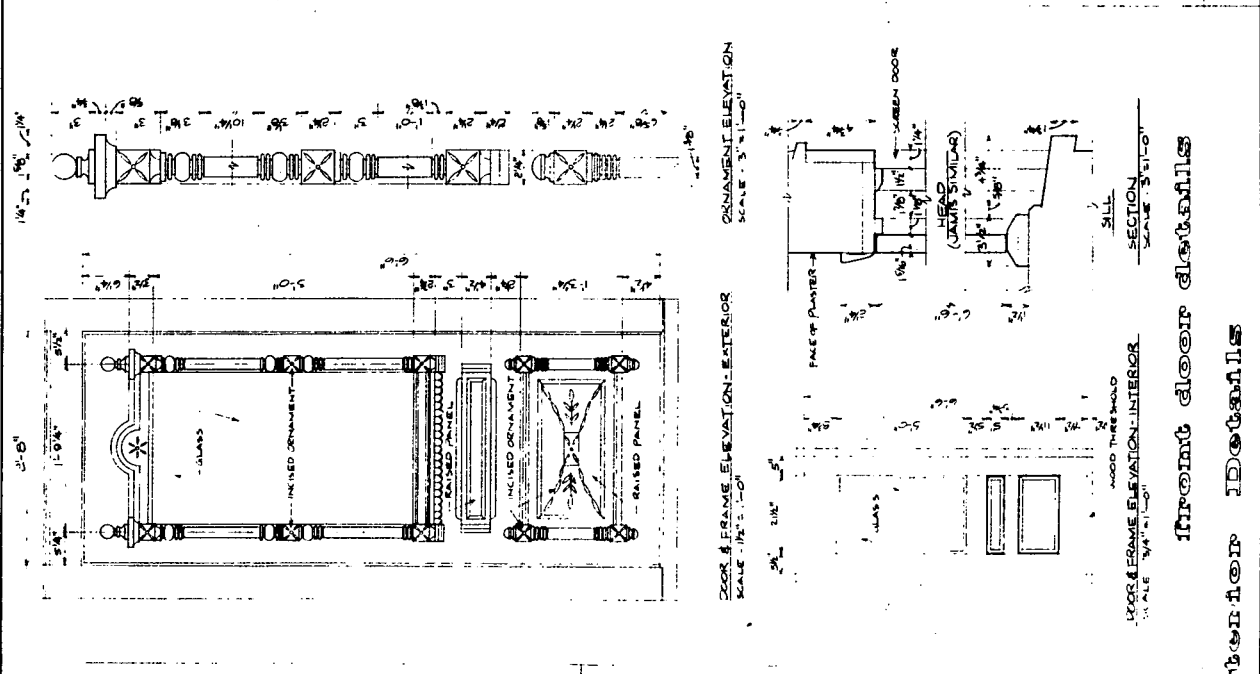
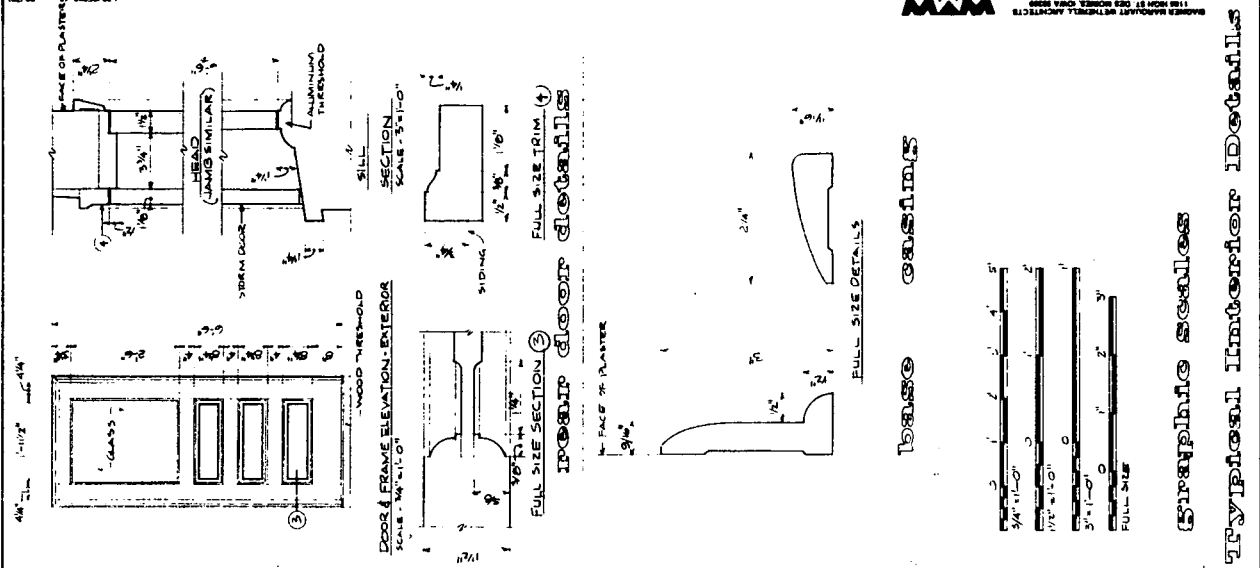
Basement Plan





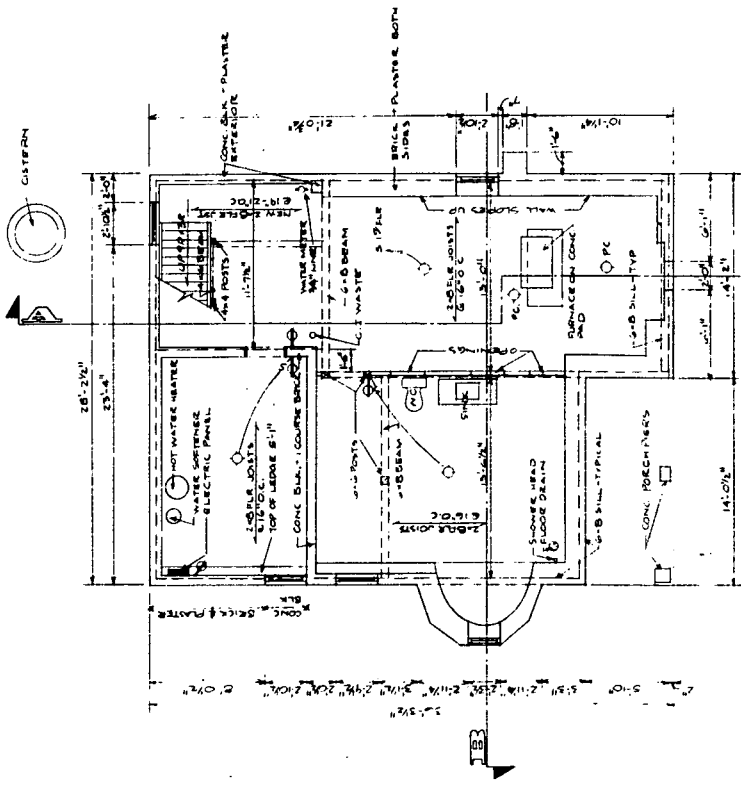
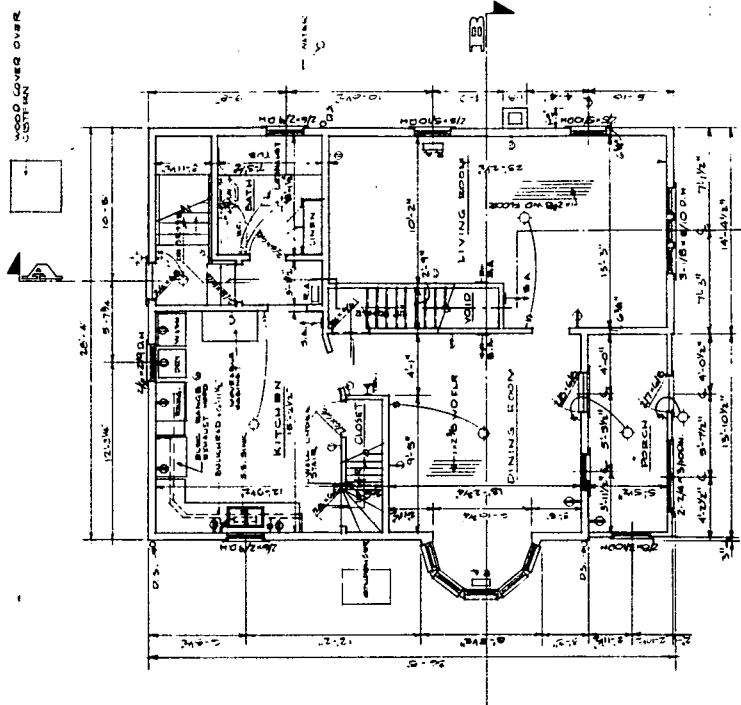
Graphic scale
 0 5 10 20
 Feet
 NORTH

ON MICROFILM

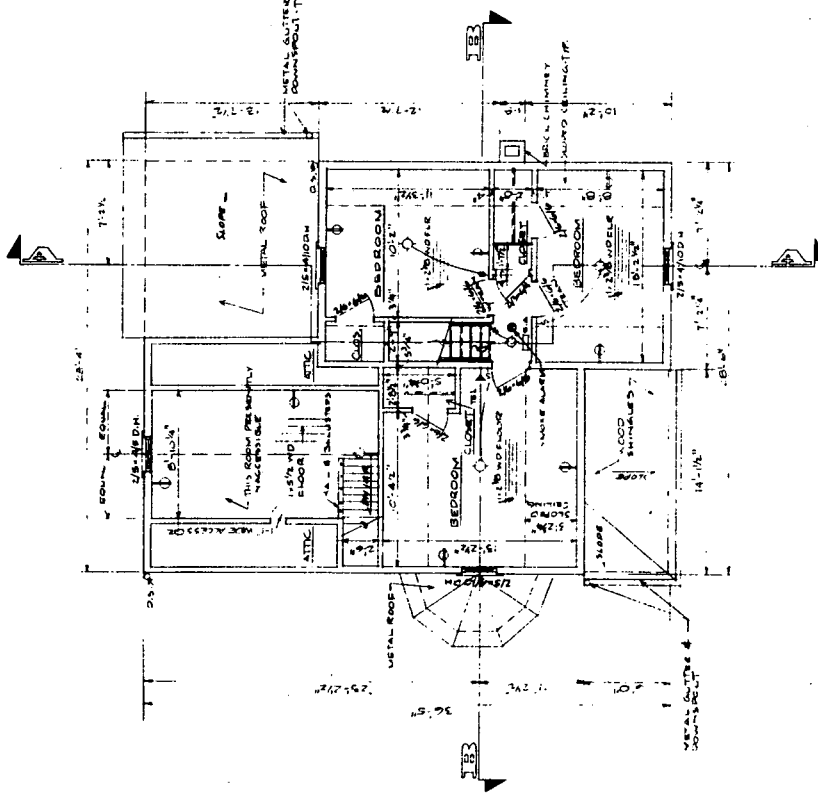


ON MICROFILM

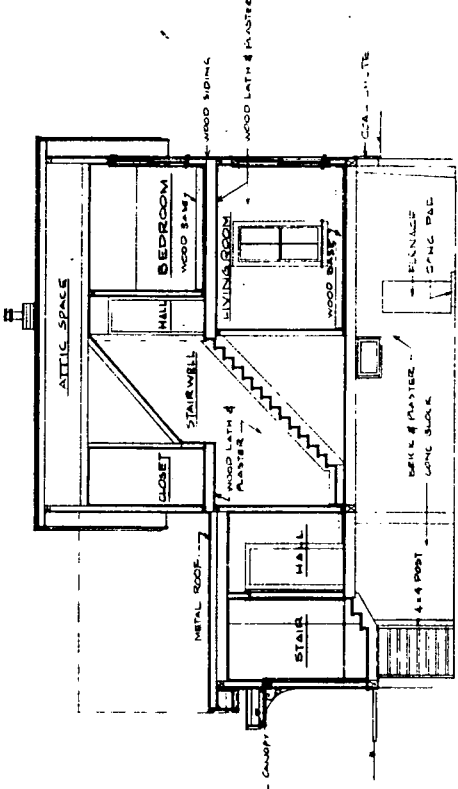
1:1/8" = 1'-0"
 ALL FLOOR PLANS DRAWN AT 1/4" = 1'-0"
 GRAPHIC SCALE
 NORTH



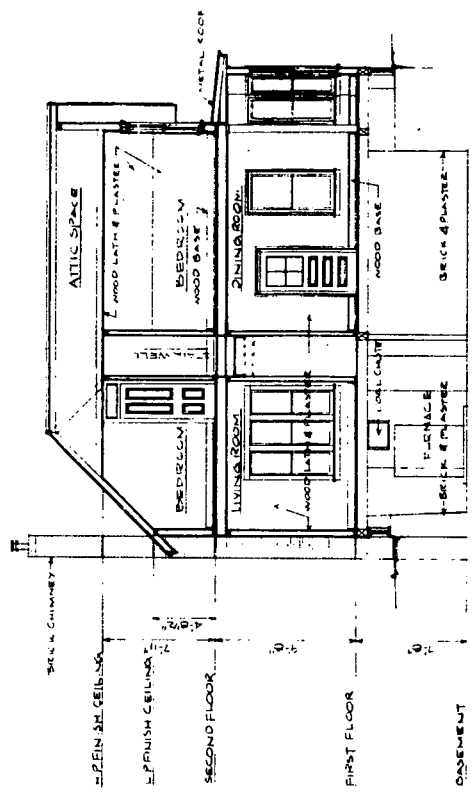
ON MICROFILM



Second Floor Plan



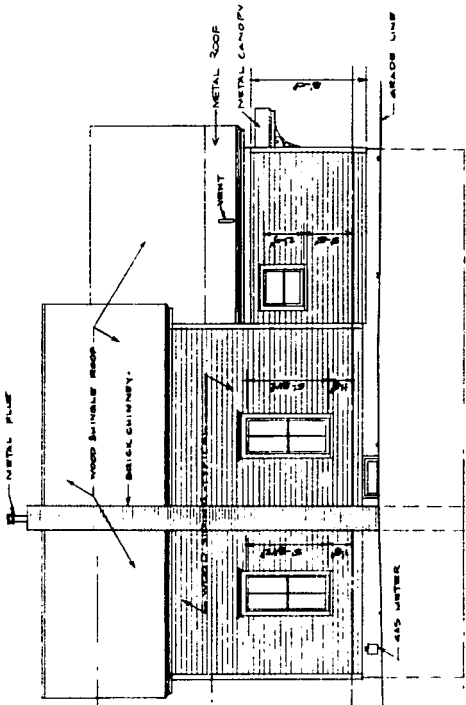
Section A-A



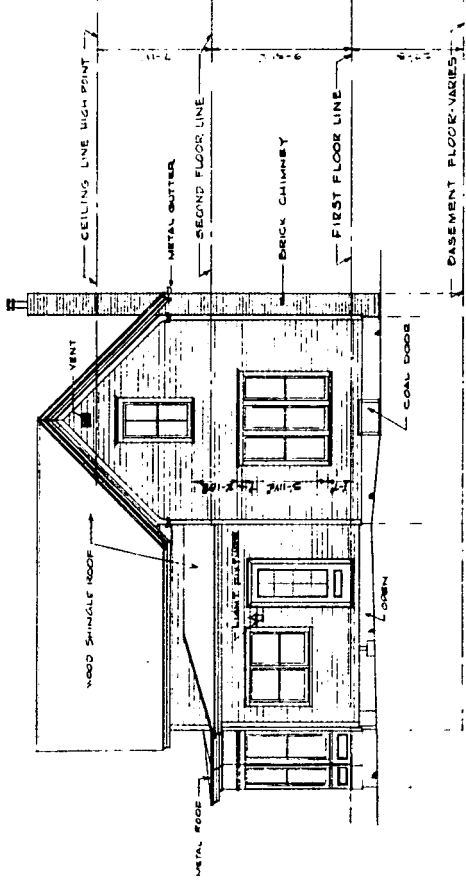
Section B-B

WORKSHEET TITLE: ISAAC MILES FARMHOUSE
 SHEET NO.: 31 OF 32
 DATE: 10/2/79
 DRAWN BY: J. W. BROWN
 CHECKED BY: J. W. BROWN
 SCALE: AS SHOWN

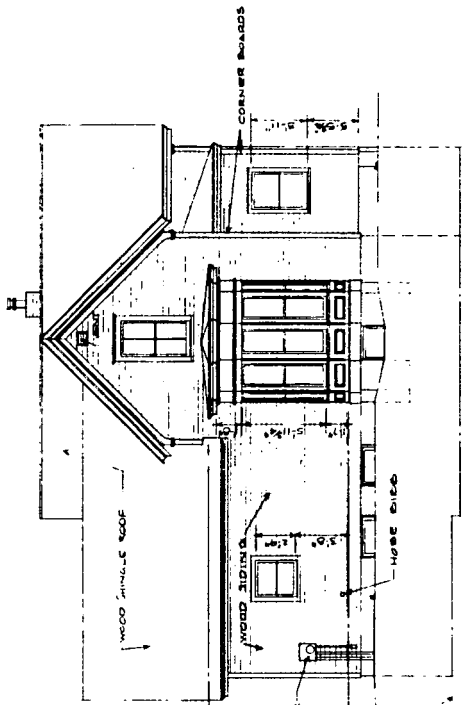
ON MICROFILM



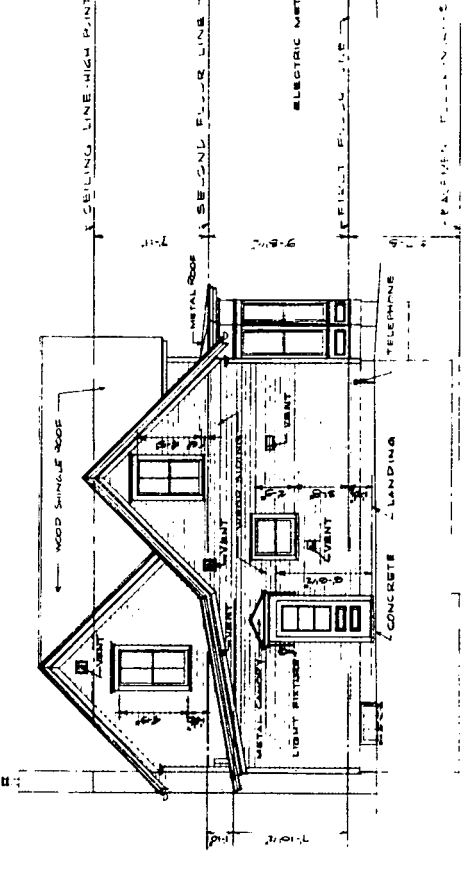
North Elevation



East Elevation



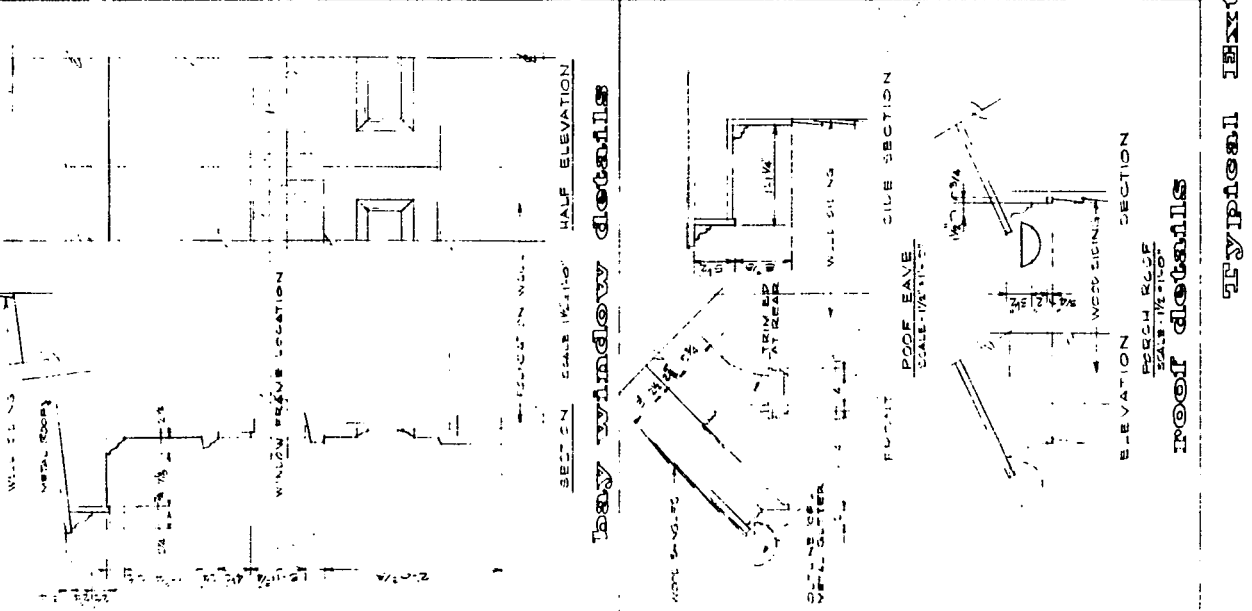
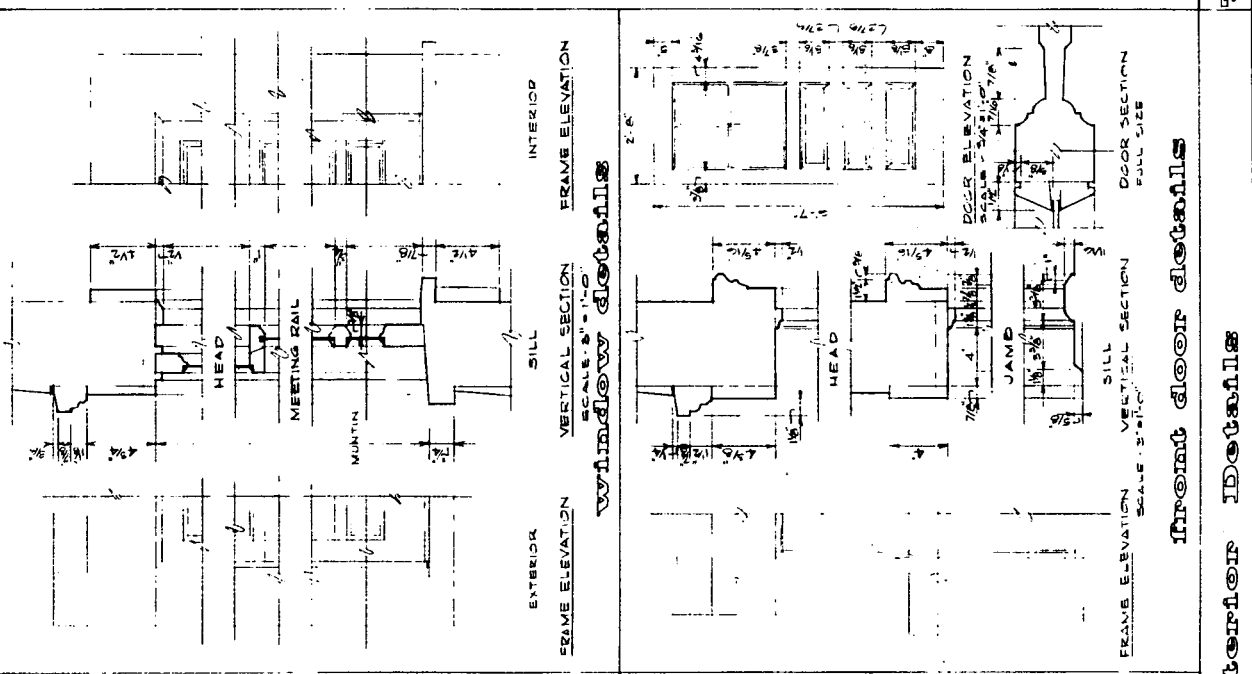
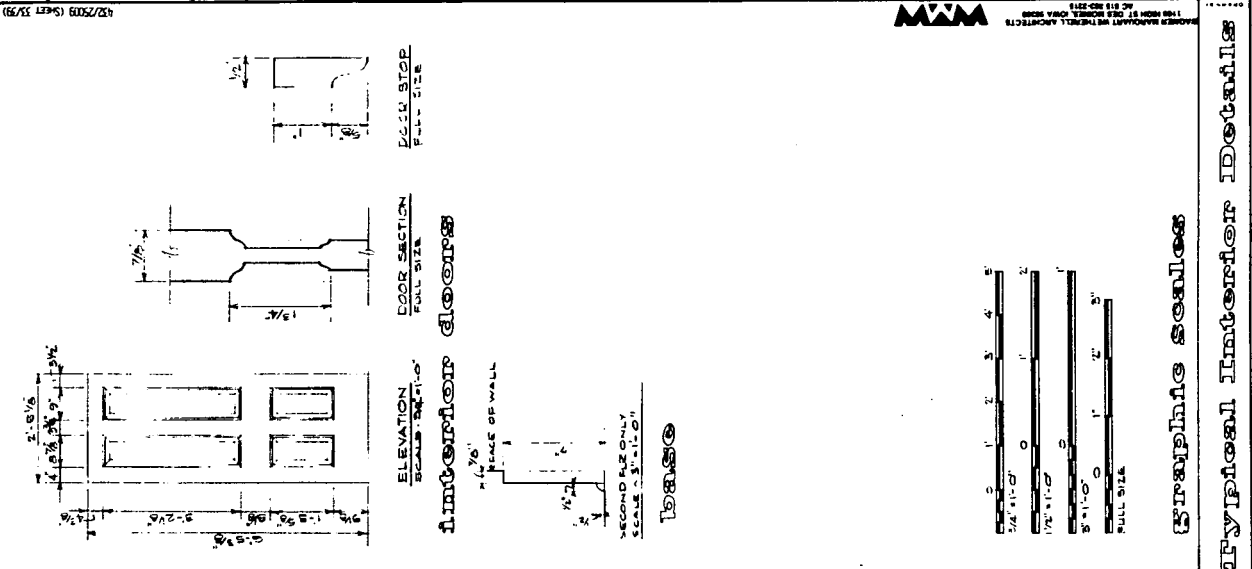
South Elevation



West Elevation

ALL ELEVATIONS DRAWN AT 1/8" = 1'-0"
 GRAPHIC SCALE

ON MICROFILM



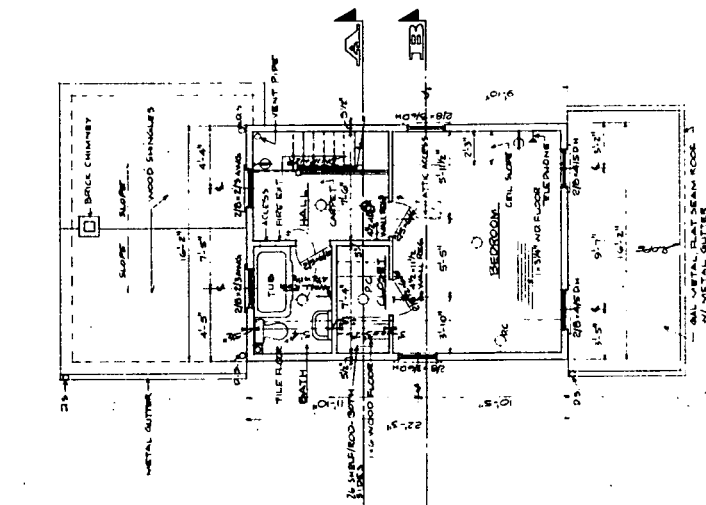
Typical Interior Details

Typical Exterior Details

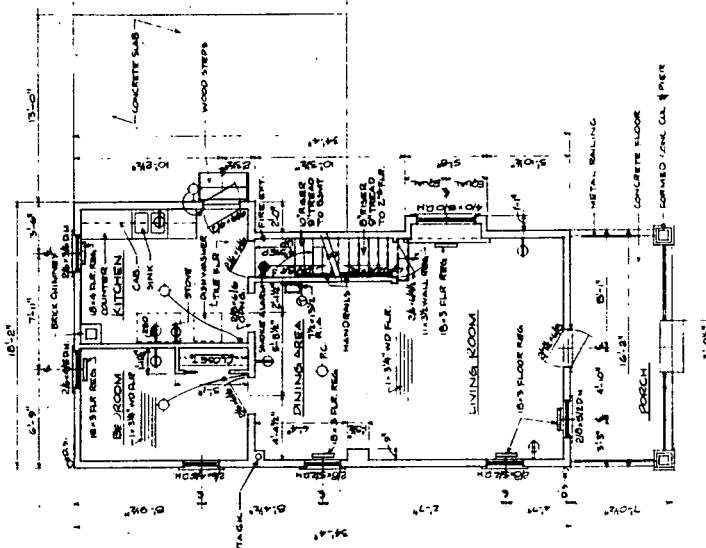
ON MICROFILM



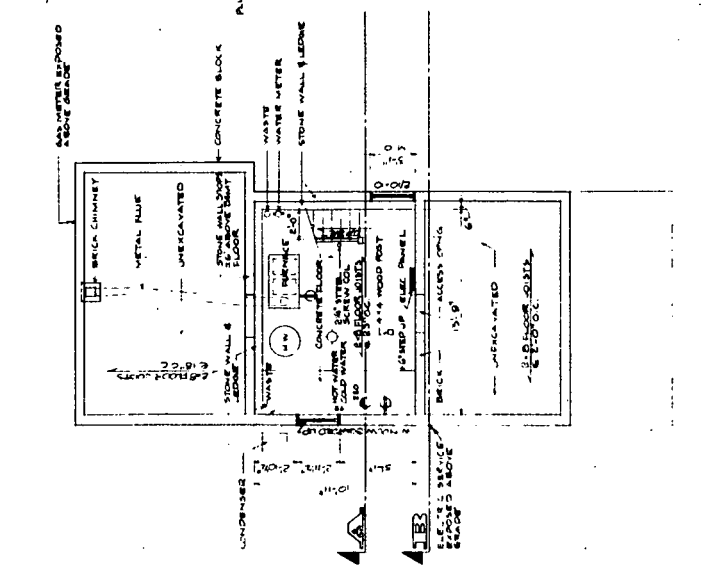
ALL FLOOR PLANS DRAWN AT 1/4" = 1'-0"
Graphic scale



Second Floor Plan

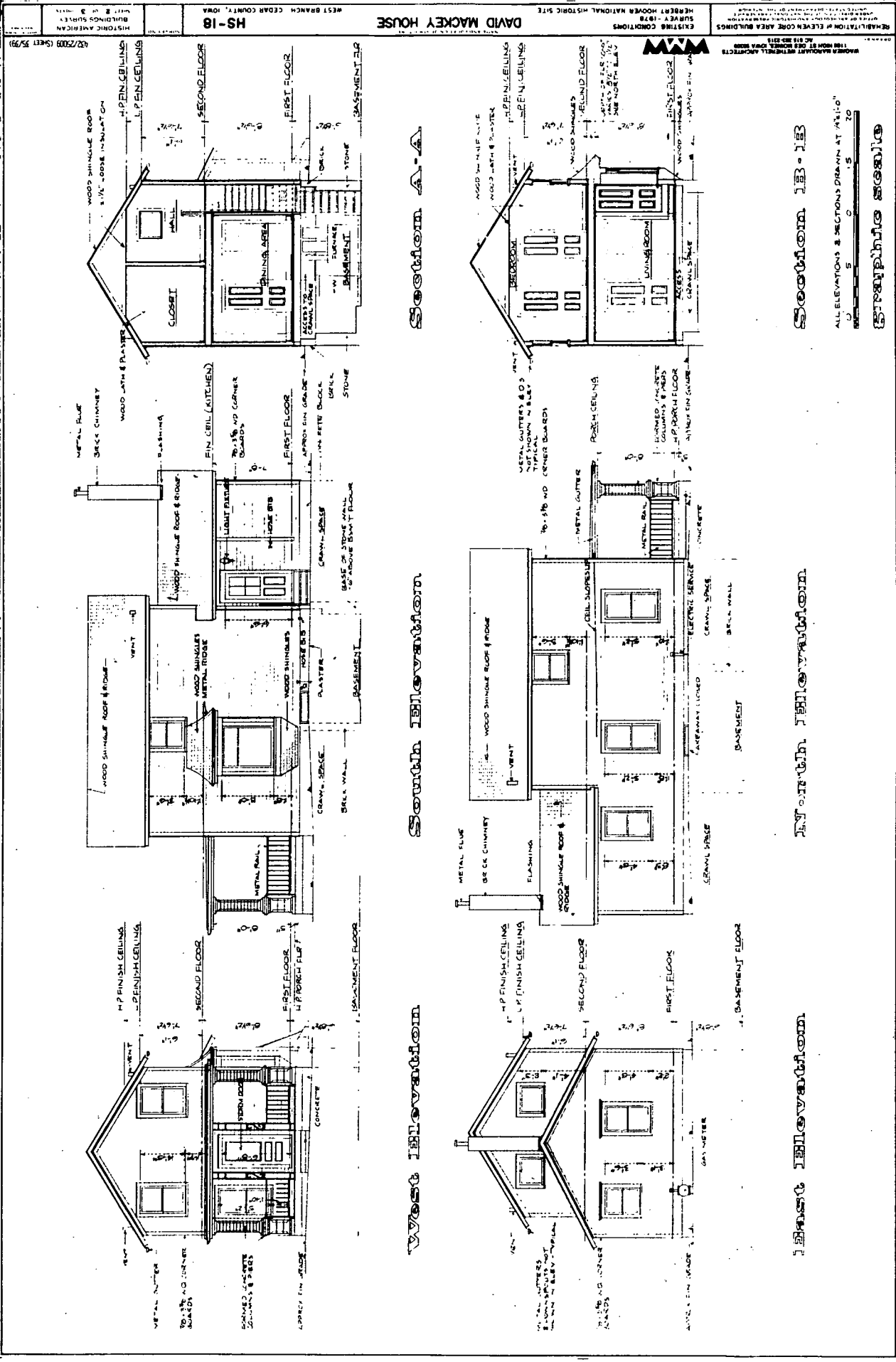


First Floor Plan



Basement Plan

ON MICROFILM



REPAIRS TO EXISTING ROOF AREA BUILDINGS
 188 NORTH ST. DES MOINES, IOWA 50319
 ARCHITECT: JAMES H. HARRIS
 188 NORTH ST. DES MOINES, IOWA 50319
 AC 818 2318

EXISTING CONDITIONS
 HERBERT HOOPER NATIONAL HISTORIC SITE
 DAVID MACKAY HOUSE
 WEST BRANCH CEDAR COUNTY, IOWA
 HS-18

HISTORIC AMERICAN
 ARCHITECTS
 427/2309 (SHEET 35/39)

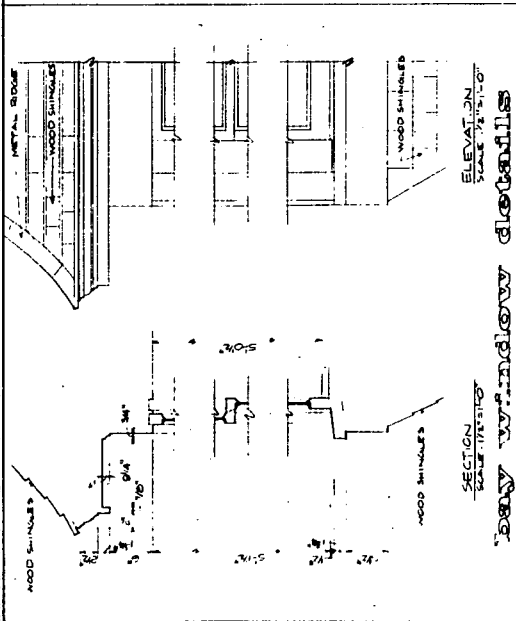
Section 1B-1B

ALL ELEVATIONS & SECTIONS DRAWN AT 1/8" = 1'-0"

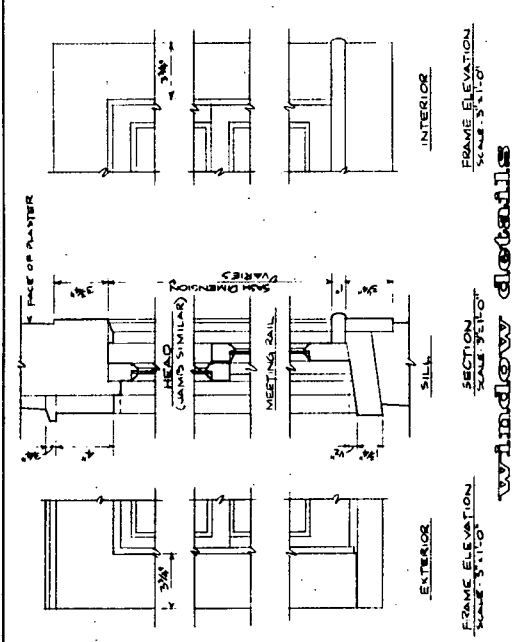
0 5 10 15 20

Graphic Scale

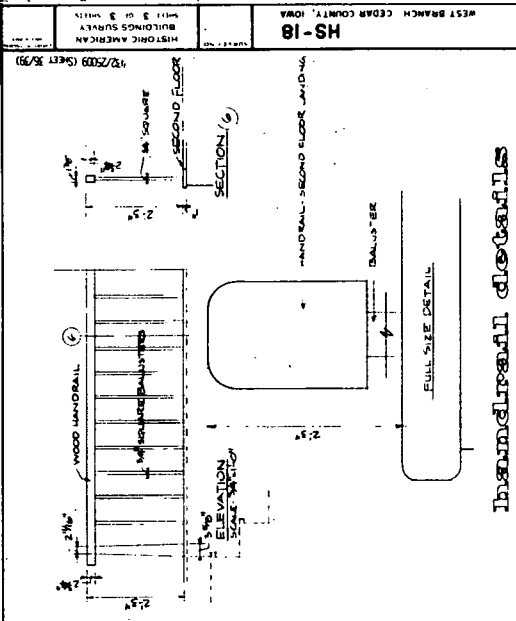
MICROFILM



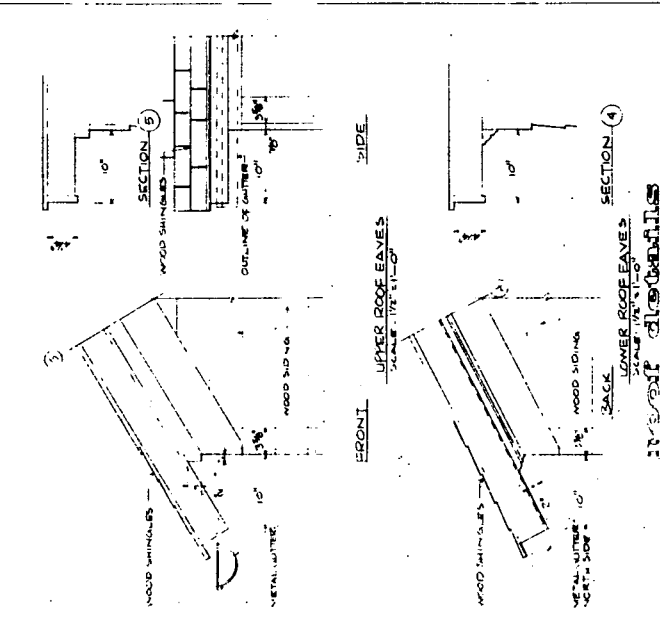
bay window details



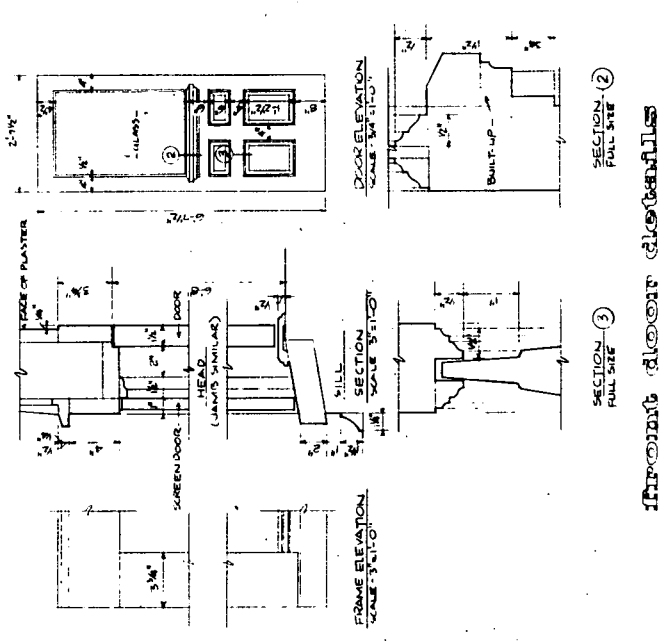
window details



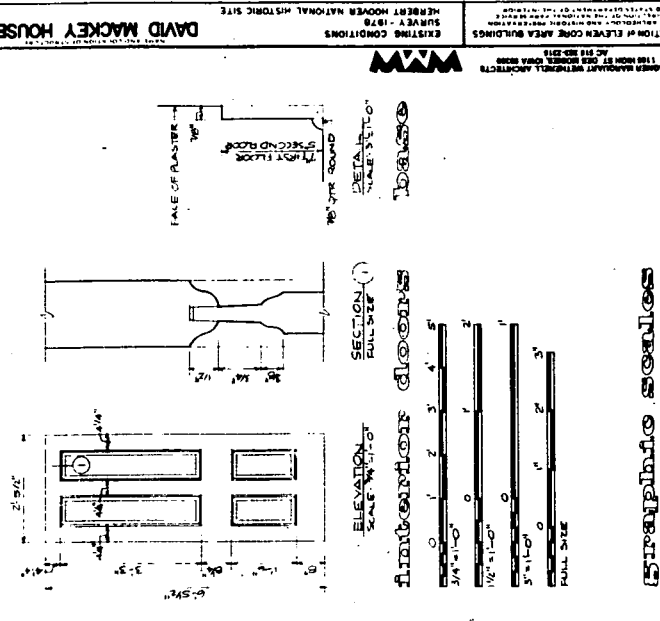
handrail details



roof details



front door details



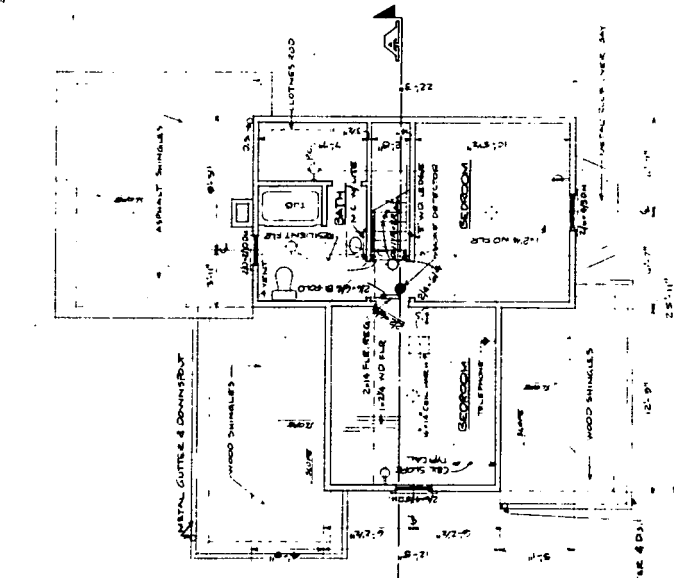
interior doors

Typical Interior Details

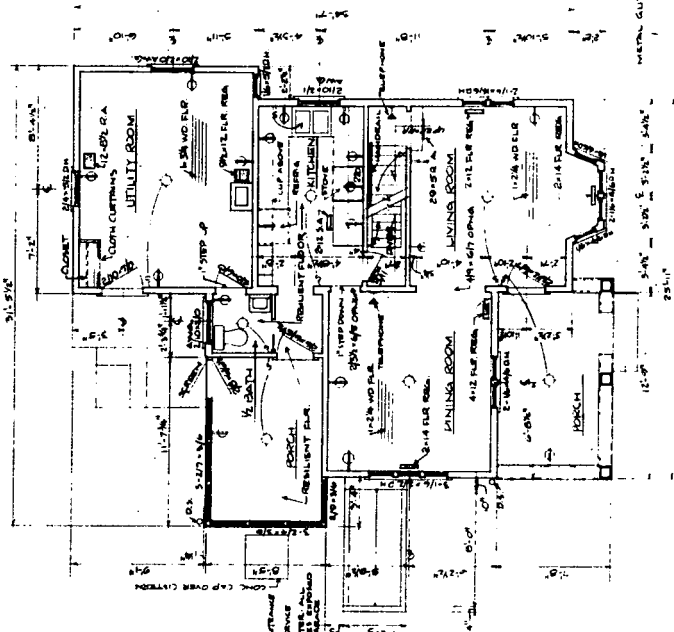
Typical Interior Details

Graphic scale
 0 5 10 15 20
 ALL FLOOR PLANS DRAWN AT 1/8" = 1'-0"

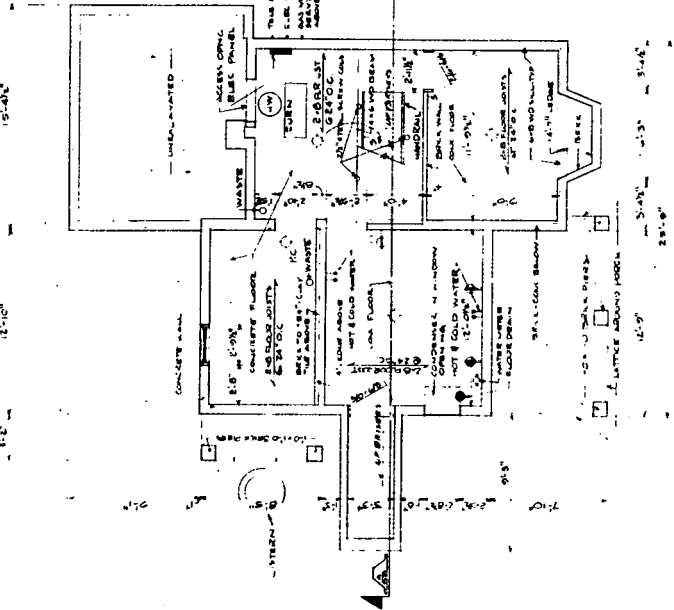
Second Floor Plan



First Floor Plan

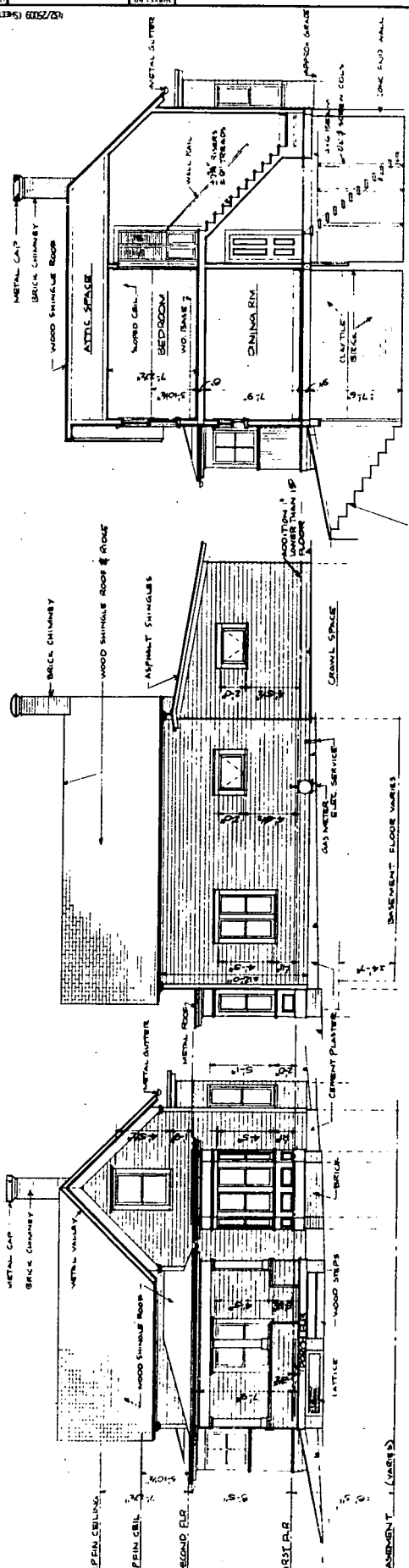


Basement Plan



W.W. HARRIS ARCHITECTS
 118 NORTH 1ST STREET, IOWA CITY, IOWA 52241
 PHONE 319-335-1111

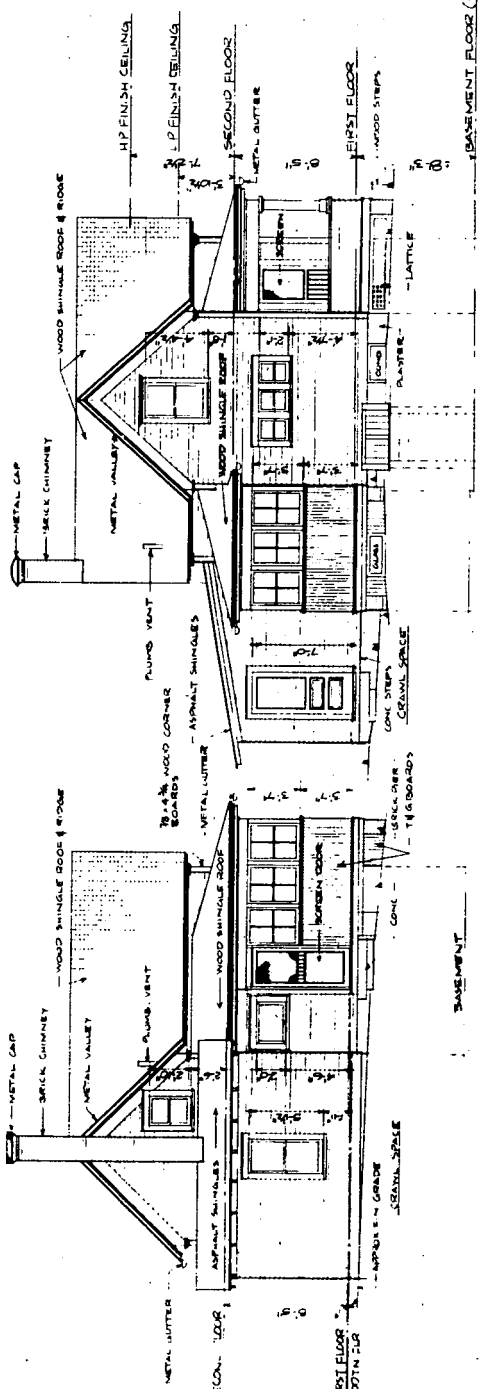
3



Section A-A

North Elevation

East Elevation



South Elevation

West Elevation

ALL ELEVATIONS & SECTIONS UNLESS NOTED OTHERWISE
 GRAPHIC SCALE

ON MICROFILM

rear porch door details

① FULL SIZE SECTION ⑤
 FULL SIZE SECTION ⑥

FRAME ELEVATION SCALE 3/4"=1'-0"
 SECTION SCALE 3/4"=1'-0"
 INTERIOR SCALE 3/4"=1'-0"
 ELEVATION SCALE 3/4"=1'-0"

Labels: BACK OF SILLING, SILL, PARCH FUR, (LAMP) SIMILAR, INTERIOR, GLASS, INTERIOR 2.

window details

② FULL SIZE SECTION ⑦
 FULL SIZE SECTION ⑧

FRAME ELEVATION SCALE 3/4"=1'-0"
 SECTION SCALE 3/4"=1'-0"
 INTERIOR SCALE 3/4"=1'-0"
 ELEVATION SCALE 3/4"=1'-0"

Labels: HEAD (LAMP) SIMILAR, MEETING RAIL, SASH DIVISION, INTERIOR, INTERIOR 2.

TYPICAL SECOND FLOOR WINDOWS: FIRST FUR WINDOWS SIMILAR, NO MOULDING AT MET HEAD

bay window details

③ FULL SIZE SECTION ⑨
 FULL SIZE SECTION ⑩

FRAME ELEVATION SCALE 3/4"=1'-0"
 SECTION SCALE 3/4"=1'-0"
 INTERIOR SCALE 3/4"=1'-0"
 ELEVATION SCALE 3/4"=1'-0"

Labels: METAL GUIDE, CEILING, BRICK FOUNDATION, INTERIOR, INTERIOR 2.

interior doors

④ FULL SIZE SECTION ⑪
 FULL SIZE SECTION ⑫

FRAME ELEVATION SCALE 3/4"=1'-0"
 SECTION SCALE 3/4"=1'-0"
 INTERIOR SCALE 3/4"=1'-0"
 ELEVATION SCALE 3/4"=1'-0"

Labels: FACE PLASTER, INTERIOR, INTERIOR 2.

front door details

⑬ FULL SIZE SECTION ⑬
 FULL SIZE SECTION ⑭

FRAME ELEVATION SCALE 3/4"=1'-0"
 SECTION SCALE 3/4"=1'-0"
 INTERIOR SCALE 3/4"=1'-0"
 ELEVATION SCALE 3/4"=1'-0"

Labels: HEAD (LAMP) SIMILAR, PARCH FLOOR, SILL, INTERIOR, INTERIOR 2.

roof details

⑮ FULL SIZE SECTION ⑮
 FULL SIZE SECTION ⑯

UPPER ROOF EAVES SCALE 3/4"=1'-0"
 PARCH ROOF EAVES SCALE 3/4"=1'-0"

Labels: WOOD HINGLE ROOF, METAL GUTTER, WOOD HOING, INTERIOR, INTERIOR 2.

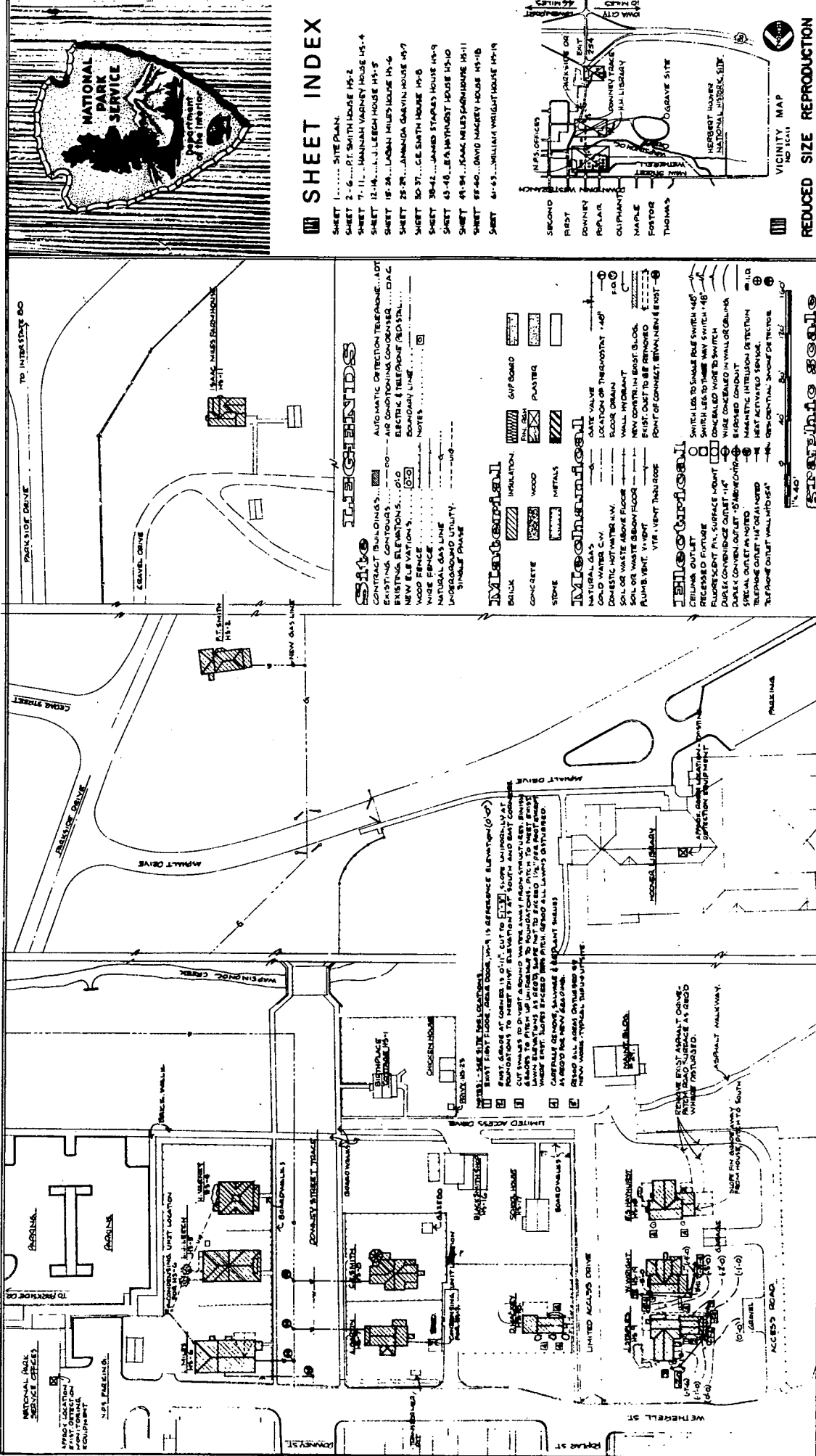
Typical Interior Details

Typical Interior Details

Typical Exterior Details

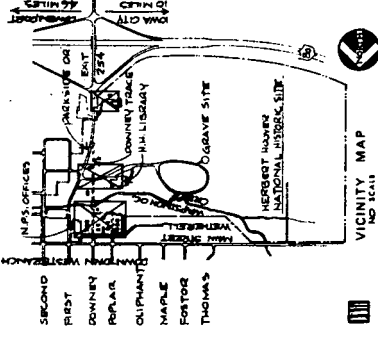
ON MICROFILM

APPENDIX G: PRELIMINARY DESIGN DRAWINGS



SHEET INDEX

SHEET 1	..... SITE PLAN
SHEET 2-6	..... PT. SMITH HOUSE HS-2
SHEET 7-11	..... MANNAH VAHNEY HOUSE HS-4
SHEET 12-14	..... J. LEACH HOUSE HS-5
SHEET 15-24	..... LAOMA HILLS HOUSE HS-6
SHEET 25-27	..... ANNACOA GAVIN HOUSE HS-7
SHEET 28-32	..... JAMES STAPLES HOUSE HS-9
SHEET 33-37	..... J.C. SMITH HOUSE HS-8
SHEET 38-42	..... LEAVENWORTH HOUSE HS-10
SHEET 43-48	..... DAVID MACKEY HOUSE HS-15
SHEET 49-54	..... WILLIAM WRIGHT HOUSE HS-19



REDUCED SIZE REPRODUCTION

DRAWING NO.	25000-A
SHEET	1
TITLE	REPRODUCTION
DATE	
BY	
CHECKED	
APPROVED	

LEGENDS

- Site**
- CONTRACT BUILDINGS
 - AUTOMATIC DETECTION TELEPHONE
 - EXISTING CONDITIONS
 - AIR CONDITIONING CONDENSER
 - ELECTRIC & TELEPHONE (RED. STAL.)
 - NEW ELEVATIONS
 - BOUNDARY LINE
 - WOOD FENCE
 - NATURAL GAS LINE
 - UNDERGROUND UTILITY
 - SHINGLE PAVEMENT

Material

- BULK
- CONCRETE
- STONE
- INSULATION
- WOOD
- METALS
- GYP BOARD
- PLASTER
- DATE VALVE
- LOCATION OF THERMOSTAT
- WATER CRYSTAL
- WASTE ABOVE FLOOR
- SOIL OR WASTE BELOW FLOOR
- FLOOR DRAIN
- NEW CONCRETE IN EXIST. BLDG.
- EXIST. OUT. TO BE REMOVED
- VTR. VENT THROUGH ROOF
- POINT OF CONNECTION

Mechanical

- NATURAL GAS
- WATER CRYSTAL
- WASTE ABOVE FLOOR
- SOIL OR WASTE BELOW FLOOR
- FLOOR DRAIN
- NEW CONCRETE IN EXIST. BLDG.
- EXIST. OUT. TO BE REMOVED
- VTR. VENT THROUGH ROOF
- POINT OF CONNECTION
- CEILING OUTLET
- CHILLER OUTLET
- RECESSED FUTURE
- REPRESENT P.V. SURFACE MOUNT
- DUAL CONDUIT OUTLET
- DUAL CONDUIT OUTLET
- SPECIAL OUTLET AS NOTED
- TELEPHONE OUTLET
- THE PHONE OUTLET WALL MOUNTED
- SWITCHES TO SHUNT ONE SWITCH
- SWITCHES TO THREE WAY SWITCH
- CONCEALED WIRE IN WALL OR CEILING
- WIRE CONCEALED IN WALL OR CEILING
- RECESSED CONDUIT
- MAGNETIC INTERLUSSION DETECTION
- NEW ACTIVATED SERVICE
- NON-IDENTICAL SERVICE DETECTOR

Structural Goals

- PREPARED
- DESIGNED
- DRAWN
- CHECKED
- APPROVED

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE DENVER SERVICE CENTER

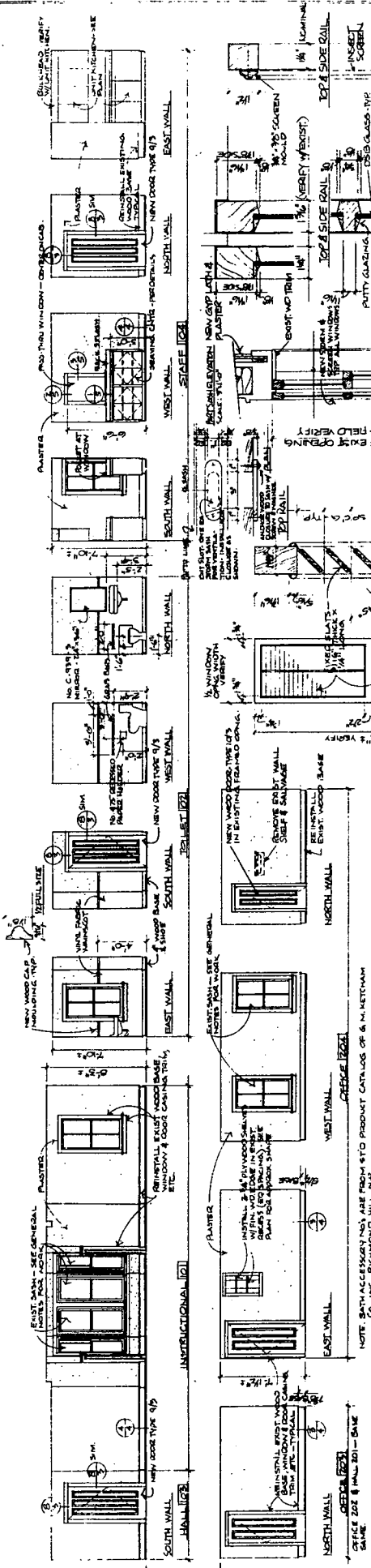
APPROVED: [Signature] DATE: [Date]

FRANK PALLEY ASSOCIATES INCORPORATED CONSULTING ENGINEERS

1500 14th St. Denver, Colorado 80202

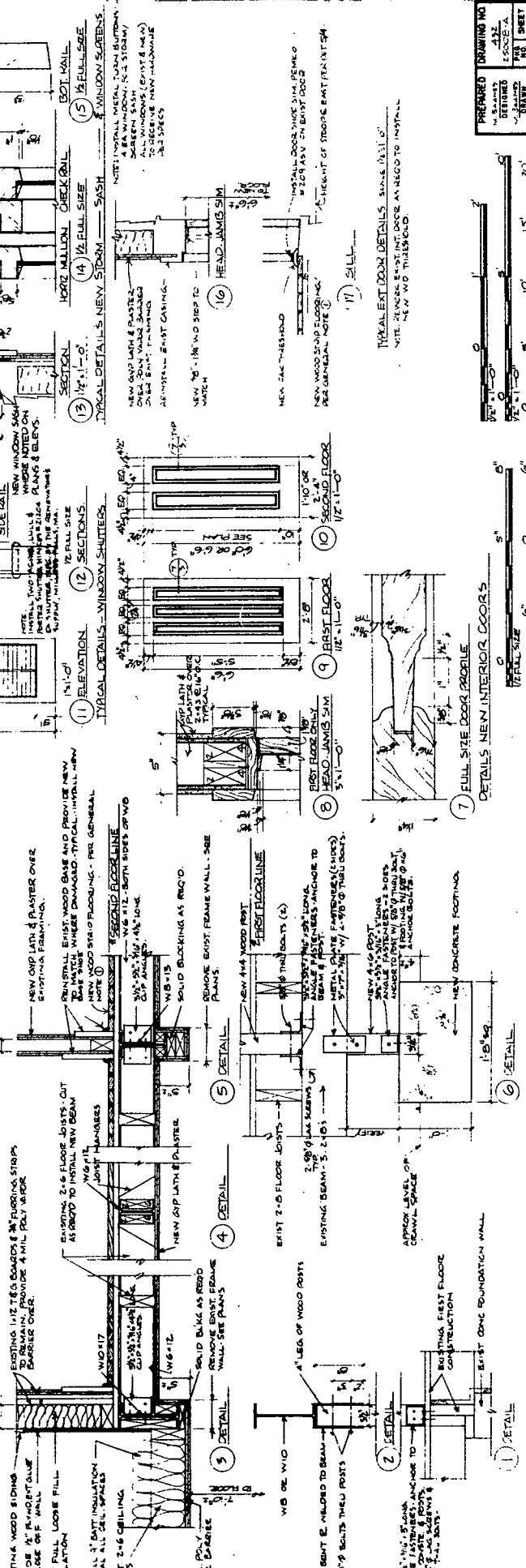
1988

ON



TYPICAL INTERIOR ELEVATIONS SCALE: 1/4" = 1'-0"

NOTE: BATH ACCESSORIES ARE FROM STD. PRODUCT CATALOG OF A.M. NETHERMAN CO., INC. REFER TO THIS CATALOG FOR DETAILS.



TYPICAL DETAILS - WINDOW SHUTTERS SCALE: 1/2" = 1'-0"

NOTE: BATH ACCESSORIES ARE FROM STD. PRODUCT CATALOG OF A.M. NETHERMAN CO., INC. REFER TO THIS CATALOG FOR DETAILS.

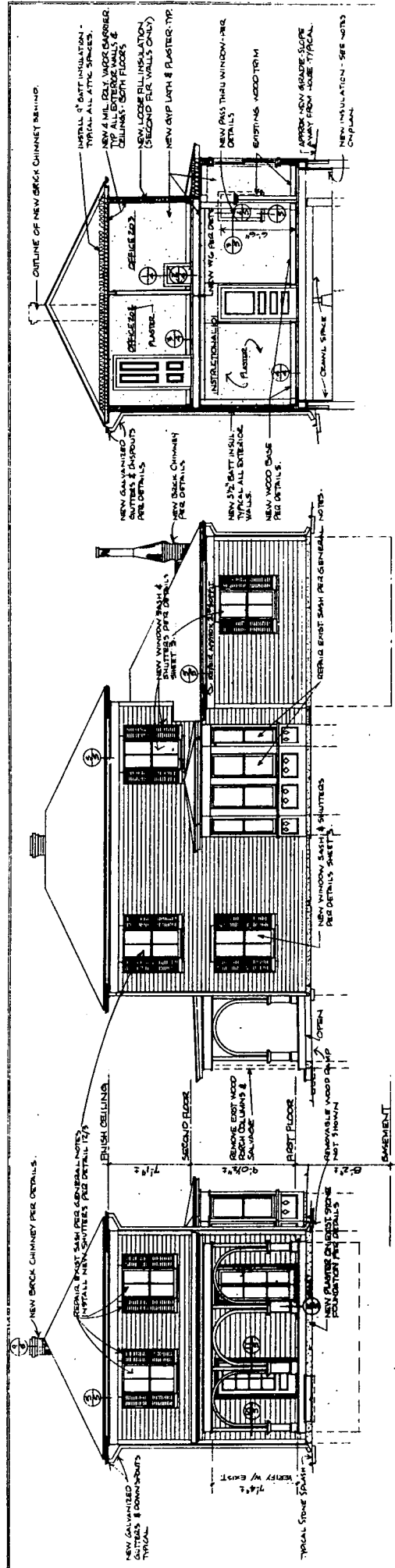


TYPICAL DETAILS - INTERIOR DOORS SCALE: 1/2" = 1'-0"

NOTE: BATH ACCESSORIES ARE FROM STD. PRODUCT CATALOG OF A.M. NETHERMAN CO., INC. REFER TO THIS CATALOG FOR DETAILS.

DRAWING NO.	432
REVISION	ISSUED 11/1/54
SHEET	3
DATE	11/1/54
BY	4/11/54
CHECKED	4/11/54
APPROVED	4/11/54

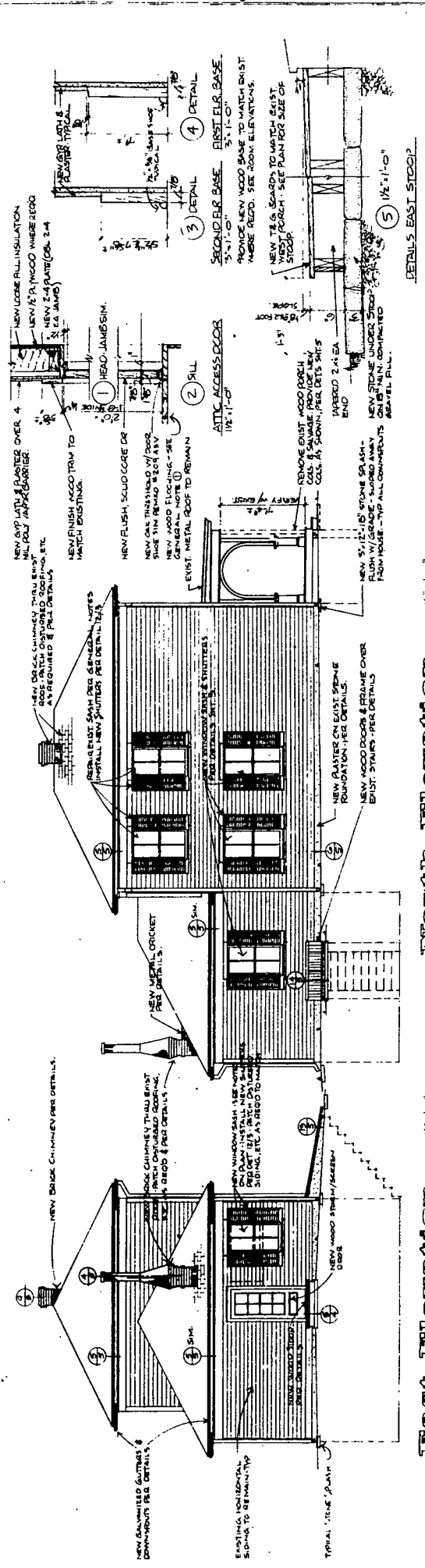
ON MICROFILM



Section A-A SCALE: 1/4" = 1'-0"

South Elevation SCALE: 1/4" = 1'-0"

West Elevation SCALE: 1/4" = 1'-0"



Section A-A SCALE: 1/4" = 1'-0"

North Elevation SCALE: 1/4" = 1'-0"

East Elevation SCALE: 1/4" = 1'-0"

PREPARED	DRAWING NO.
DATE	1-25-54
CHECKED	BY
DATE	
PROJECT	4
DATE	
SCALE	1/4" = 1'-0"
NO. OF SHEETS	4
TOTAL NO. OF SHEETS	4

BRANDS AND SPECIFICATIONS

BRANDS AND SPECIFICATIONS TO BE USED UNLESS OTHERWISE NOTED:

CEMENT: PORTLAND CEMENT

CONCRETE: 3000 PSI

GLASS: CLEAR

INSULATION: FIBERGLASS

PAINTS: MASONRY PAINT

PLASTER: PLASTER

ROOFING: ASPHALT/FLY

SIDING: SIDING

STAIN: STAIN

WOOD: PINE

WOOD: OAK

WOOD: REDWOOD

WOOD: WALNUT

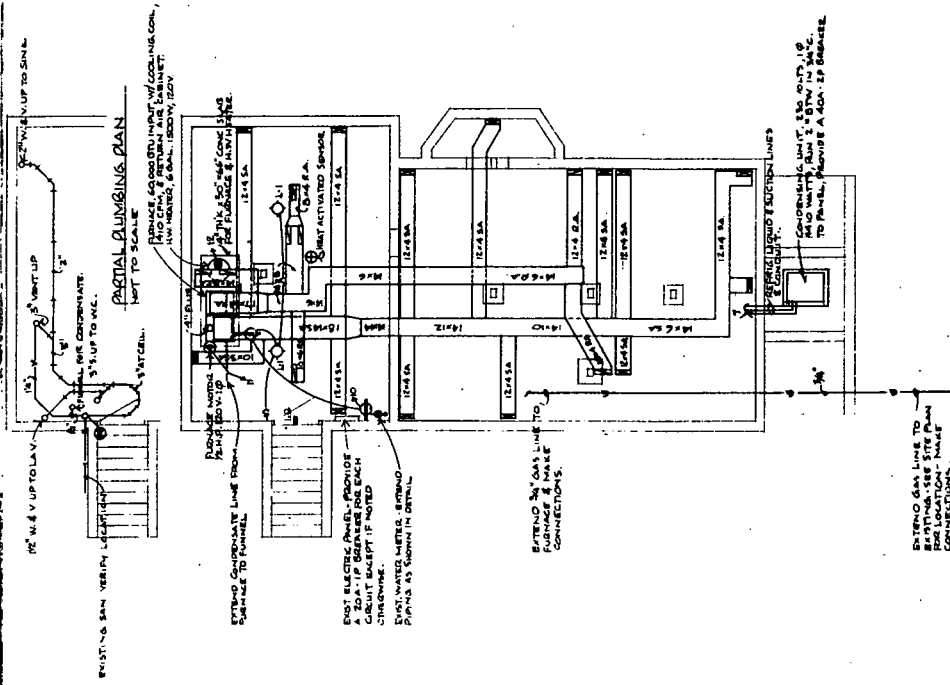
WOOD: WHITE PINE

WOOD: YELLOW PINE

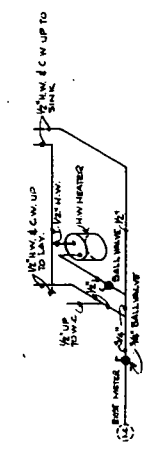
WOOD: SPRUCE

WOOD: TYPICAL

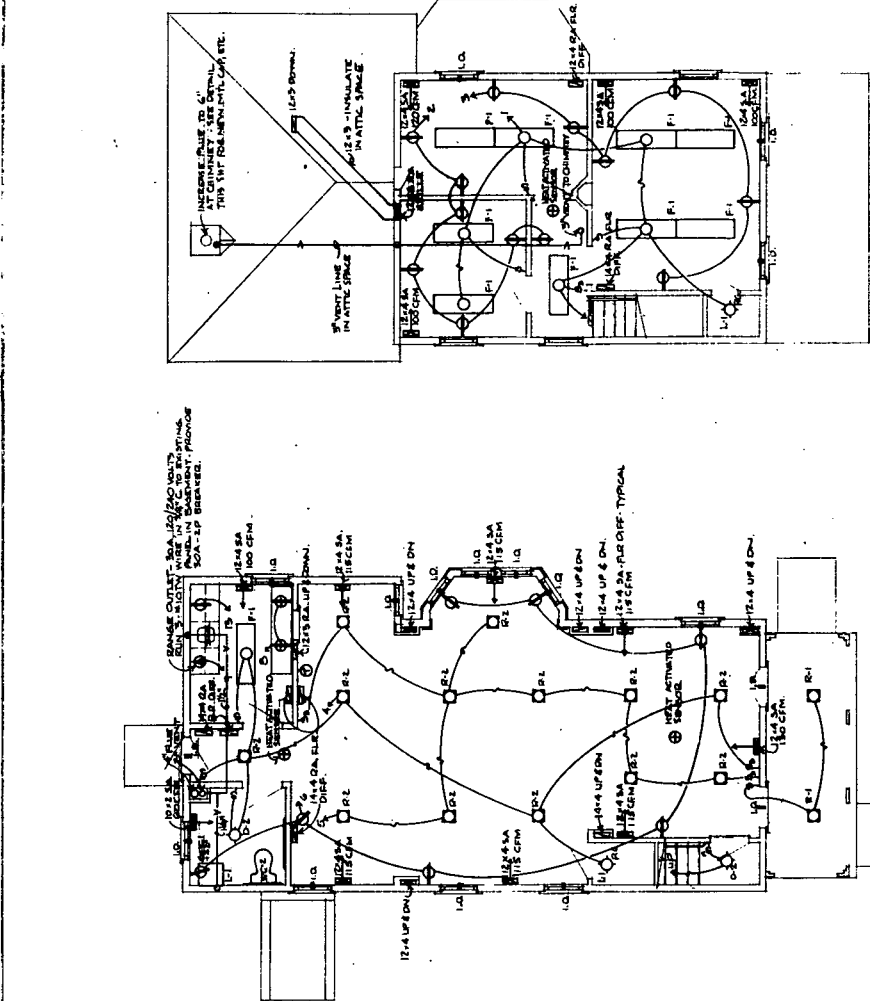
ON MICROFILM



FIRST FLOOR PLUMB SCALE - 1/4" = 1'-0"

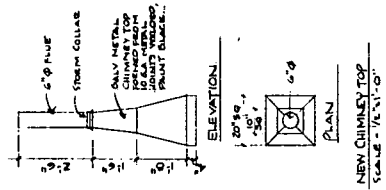


WATER PIPING DETAIL - NOT TO SCALE



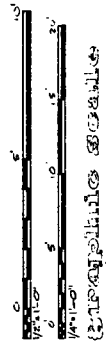
SECOND FLOOR PLUMB SCALE - 1/4" = 1'-0"

NOTE: REMOVE ALL EXISTING PLUMBING (SEE EACH FLOOR PLAN FOR LOCATION). REMOVE WATER PIPING BACK TO METER & RUN BACK TO HOUSE ENTRANCE. REMOVE ANY EXISTING ELECTRICAL PIPING, CONDENSING, ETC. BACK TO PANEL. REMOVE CONDENSING UNIT, ETC. FROM UNIT.

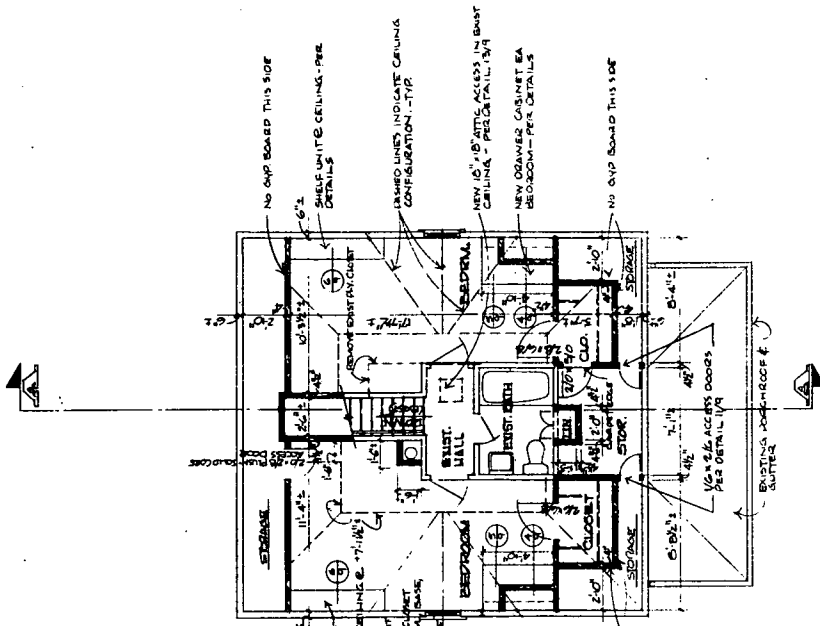


NEW CHIMNEY TOP SCALE - 1/4" = 1'-0"

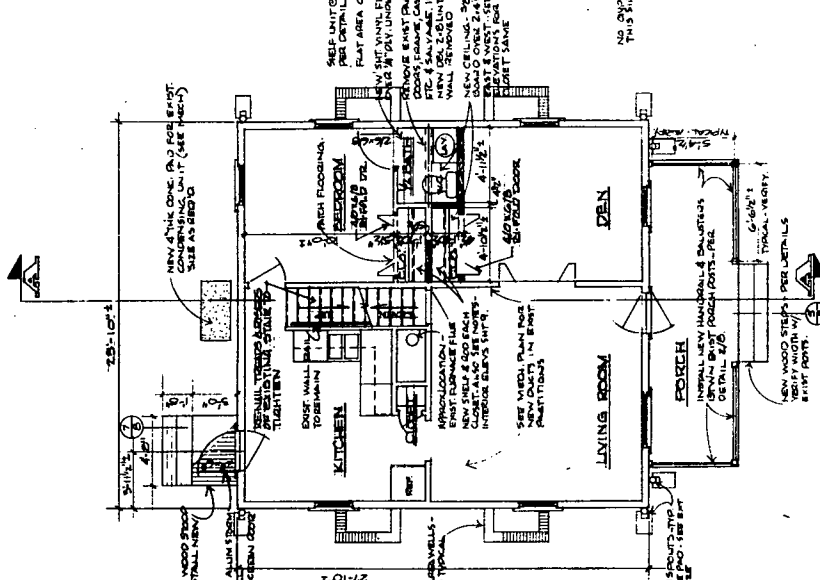
PREPARED	DRAWING NO.	412
DESIGNED	SCALE	AS SHOWN
DRAWN	SHEET	8
CHECKED	DATE	



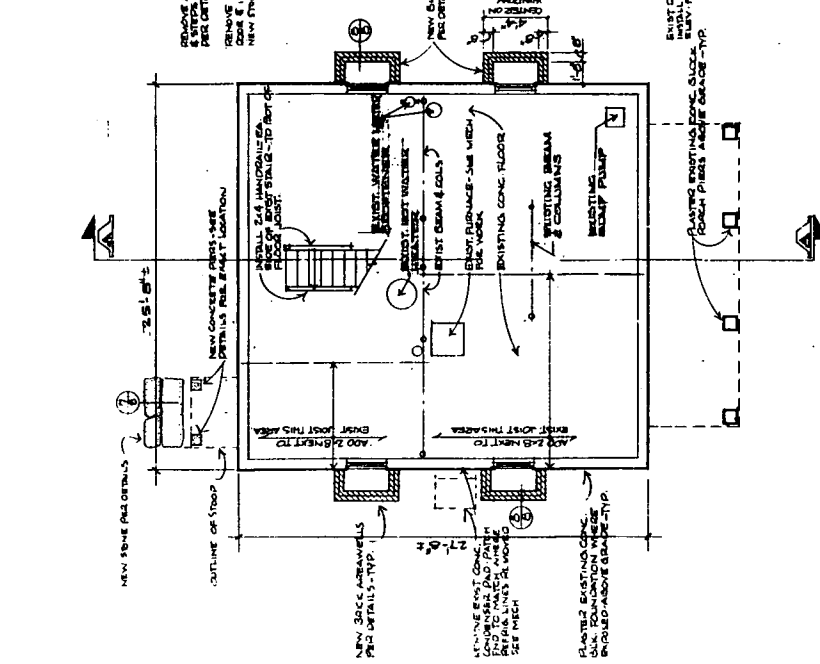
ON MICROFILM



Second Floor Plan SCALE - 1/4" = 1'-0"
 NOTE: INSTALL 1/2" PLYWOOD UNDERLAMENT OVER EXIST. 1/2" SUBFLOORING. ALL AREAS THIS FLOOR EXCEPT EAST BATH & HALLING LEVEL BY HALL. BEDROOM & CLOSET AREAS THIS FLOOR TO RECEIVE CARPET AS SELECTED.



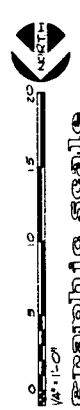
First Floor Plan SCALE - 1/4" = 1'-0"
 NOTE: REPAIR ALL PLASTER WALLS, CEILINGAS ETC. AS REQUIRED AFTER INSULATION OF NEW MECH. DUCTS - SEE MECH. DRAWINGS.



Basement Plan SCALE - 1/4" = 1'-0"

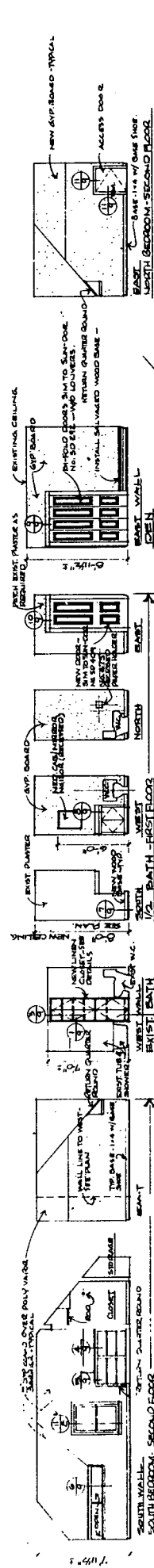
General Notes

- 1) VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, FIXTURES, ETC. AT THE BUILDING - TYPICAL
- 2) EXAMINE ALL EXISTING SLOPE & GRADE DATA, UNLESS OTHERWISE SPECIFIED, TO BE MAINTAINED - TYPICAL
- 3) ALL PAINT FROM ALL EXISTING SURFACES TO BE REMOVED & REPAINTED TO MATCH EXISTING COLOR AS SELECTED (ALL PAINT TO BE REMOVED & REPAINTED TO MATCH EXISTING COLOR AS SELECTED)
- 4) ALL ITEMS NOTED TO BE REMOVED & REPAINTED & NOT REFINISHED THIS CONTRACT SHALL REMAIN THE PROPERTY OF THE OWNER.
- 5) PAINT ALL NEW / WORK EXCEPT MASONRY, CONCRETE PLASTER, & ROUGH CARPENTRY, PAINT CEILING IN ALL FIRST FLOOR ROOMS.



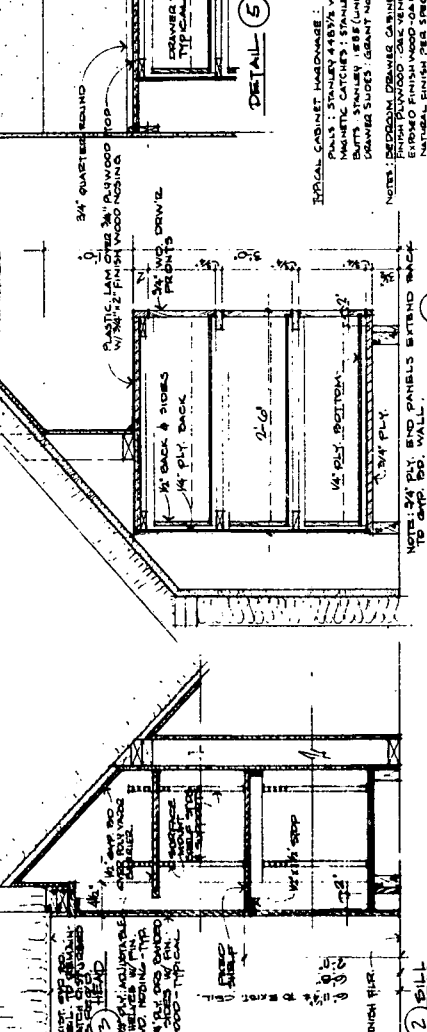
DRAWING NO. 152 SHEET NO. 7 OF 13	TITLE OF DRAWING HANNAN MARKET HOUSE 15-1 LOCATION WITHIN PARK NAME OF PARK HANNAN MARKET NATIONAL HISTORIC SITE PROJECT NO. COUNTY STATE
PREPARED BY DESIGNED BY CHECKED BY DATE	ARCHITECT UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE DENVER SERVICE CENTER

Old building



Typical Interior Elevations SCALE - 1/4" = 1'-0"

NOTE: SEE FINISH SCHEDULE FOR MATERIALS AND FINISHES.
 ALL CABINET DOORS, SIMS AND GAS STAINLESS W/NO TRAY FLANGE, POLISHED CHROME FIN. BY MAKE & MOUNT.



TYPICAL VERTICAL SECTION (6) BORN SHELF UNIT

TYPICAL VERTICAL SECTION (4) BORN DRAWER CABINET

TYPICAL VERTICAL SECTION (5) BATH - VANITY

TYPICAL VERTICAL SECTION (7) BATH - VANITY

TYPICAL VERTICAL SECTION (8) BATH - VANITY

TYPICAL VERTICAL SECTION (9) BATH - VANITY

TYPICAL VERTICAL SECTION (10) BATH - VANITY

TYPICAL VERTICAL SECTION (11) BATH - VANITY

TYPICAL VERTICAL SECTION (12) BATH - VANITY

TYPICAL VERTICAL SECTION (13) BATH - VANITY

TYPICAL VERTICAL SECTION (14) BATH - VANITY

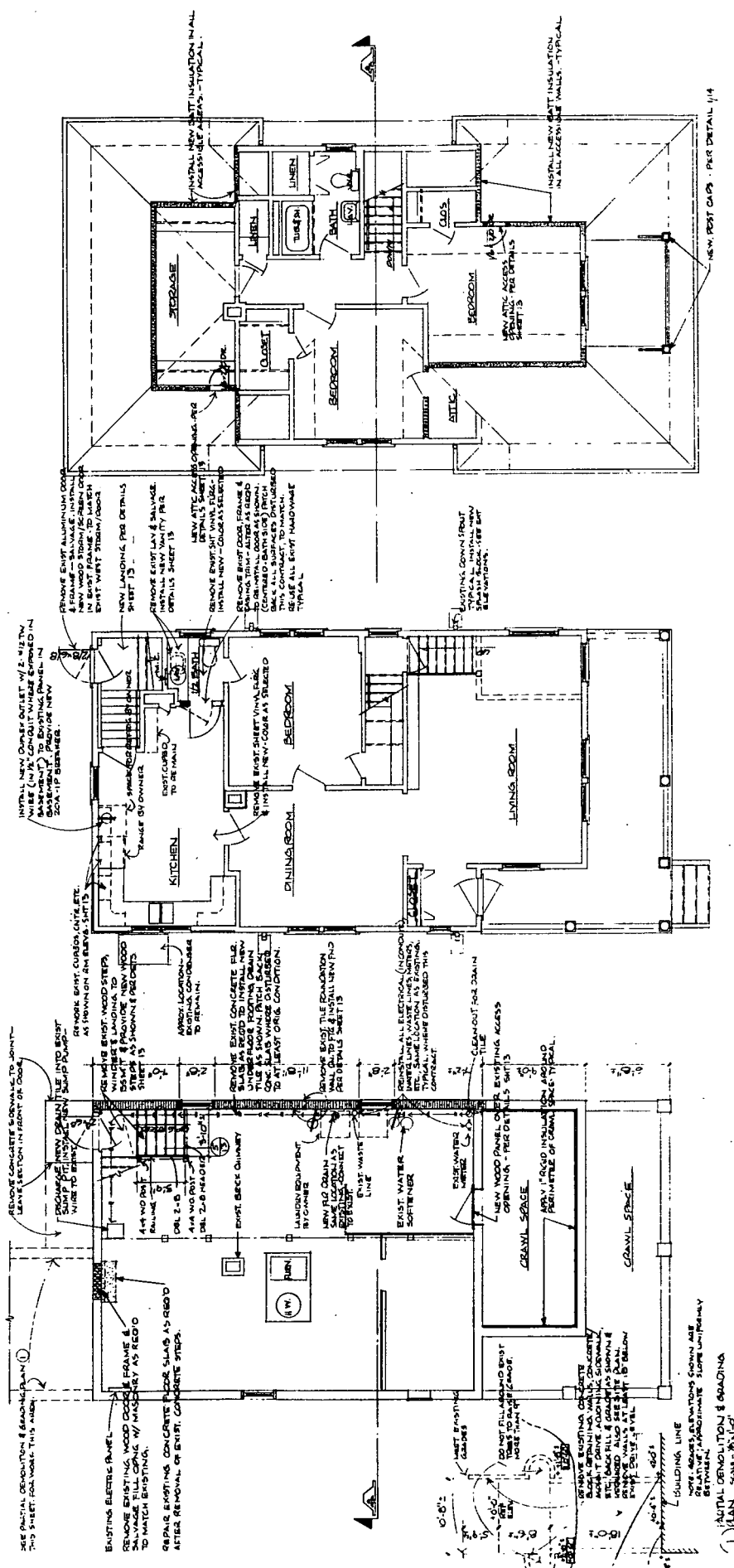
TYPICAL VERTICAL SECTION (15) BATH - VANITY

TYPICAL VERTICAL SECTION (16) BATH - VANITY

TYPICAL VERTICAL SECTION (17) BATH - VANITY

PREPARED DRAWING NO. 4312
 SHEET 9 OF 9
 PROJECT: [unreadable]
 DATE: [unreadable]

ON MICROFILM



Second Floor Plan Scale: 1/4" = 1'-0"

First Floor Plan Scale: 1/4" = 1'-0"

Basement Floor Plan Scale: 1/4" = 1'-0"

Graphic Scale

0 5 10 15 20

0 5 10 15 20

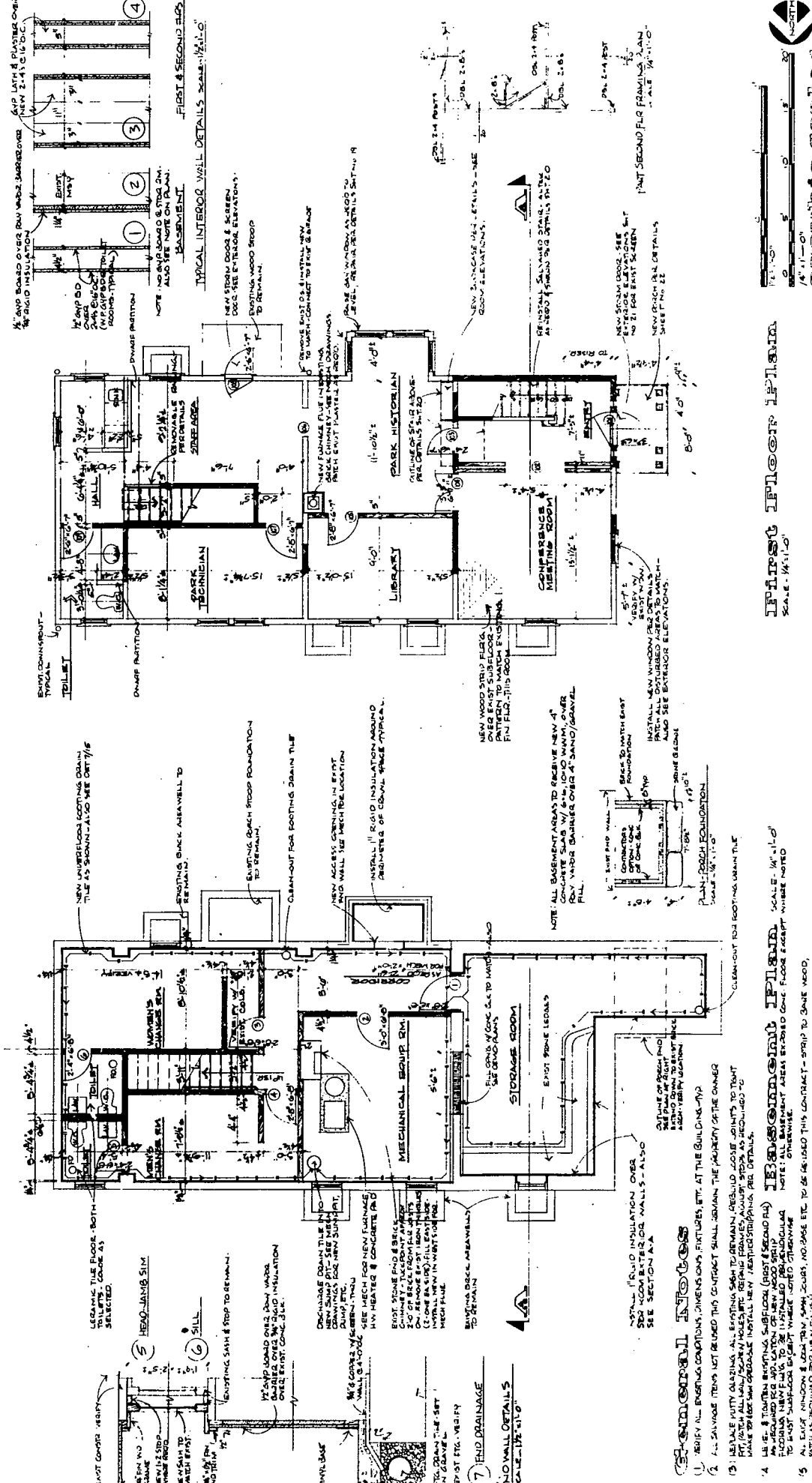
0 5 10 15 20

General Notes

1. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS & FINISHES AT THE BUILDING. TYPICAL.
2. PAINT ALL NEW WOOD EXCEPT COVERT PLANTER, WOODWORK, BUSH CABINETS, BUILT-IN KITCHEN, 1/2" BATH & SHOWER STALLS. COMPLETE.
3. EXAMINE EXISTING CEMENT PLASTER ON FOUNDATION WALLS TO DETERMINE AND REPAIR OR REPLACE.
4. ALL ITEMS NOTED TO BE REMOVED AND SALVAGED SHALL REMAIN THE PROPERTY OF THE OWNER.

DRIVING NO.	110
NO. SHEET	12
NO. OF SHEETS	12
DATE	10/22/55
PREPARED BY	ARCHITECT
DESIGNED BY	ARCHITECT
DRAWN BY	ARCHITECT
CHECKED BY	ARCHITECT
APPROVED BY	ARCHITECT
DATE	10/22/55
CITY	SEAS
COUNTY	DAVA
STATE	DAVA
PROJECT NO.	110
LOCATION	110
NAME OF PROJECT	110
NAME OF ARCHITECT	110
NAME OF CLIENT	110
NAME OF CONTRACTOR	110
NAME OF ENGINEER	110
NAME OF INSURER	110
NAME OF BUILDER	110
NAME OF OWNER	110

ON MICROFILM



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

FIRST FLOOR IPI FUND
SCALE: 1/8" = 1'-0"

DRAWING NO. 152		SHEET NO. 15	
DATE: 11/10/00		SCALE: 1/8" = 1'-0"	
PROJECT: IPI FUND BUILDING		LOCATION: DENVER, CO	
ARCHITECT: IPI FUND		OWNER: IPI FUND	
DESIGNED BY: IPI FUND		CHECKED BY: IPI FUND	
DRAWN BY: IPI FUND		DATE: 11/10/00	
CITY: DENVER, CO		STATE: COLORADO	
COUNTY: DENVER		PROJECT NO. 152	

GENERAL NOTES

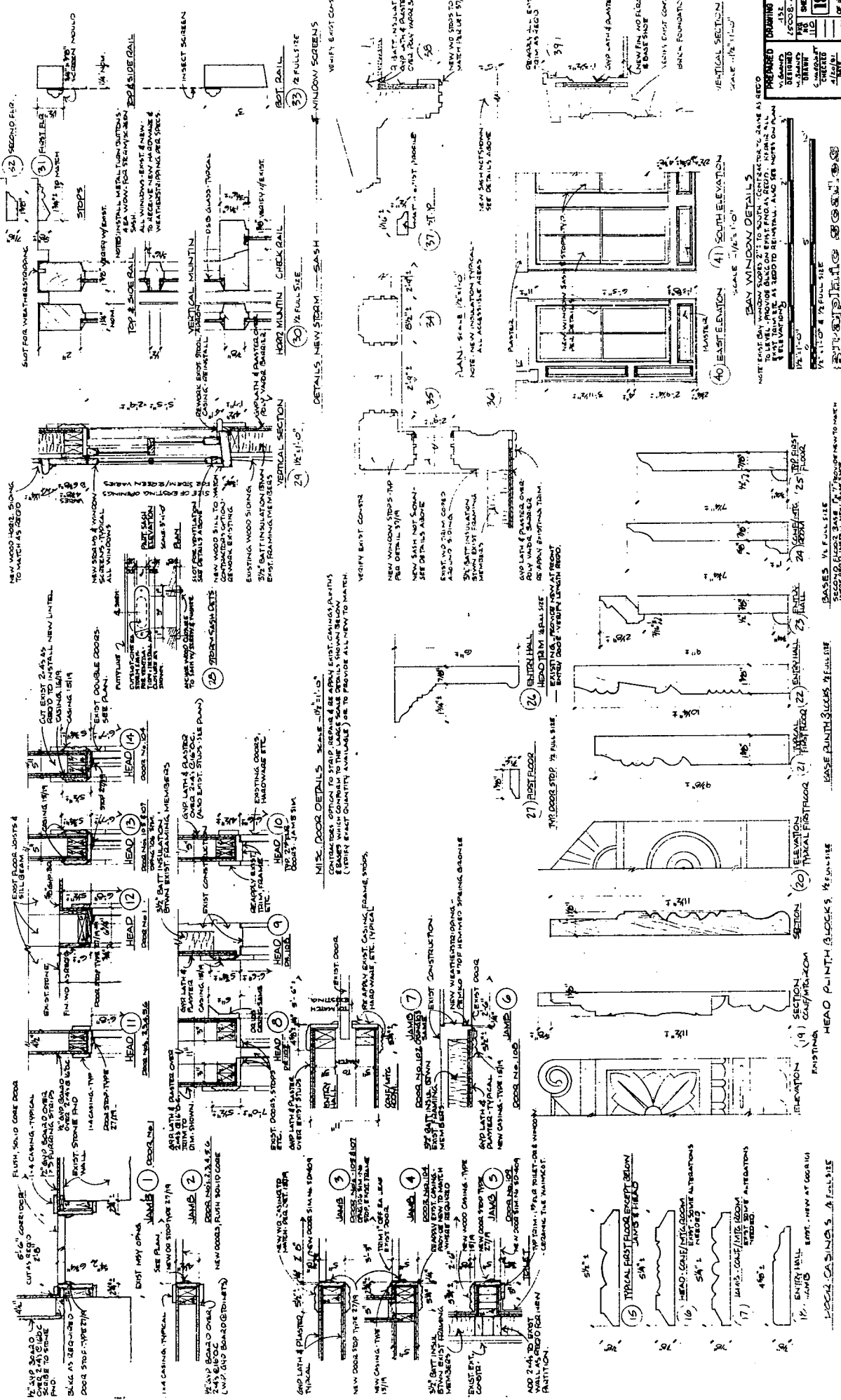
1. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, FINISHES, ETC. AT THE BUILDING AND
2. ALL SALVAGE ITEMS NOT USED THIS CONTRACT SHALL REMAIN THE PROPERTY OF THE OWNER
3. REPLACE PUNITY GLAZING. ALL EXISTING LIGHT TO REMAIN. PRESERVE JOIST JOINTS TO TIGHTEN UP EXISTING FLOORING. ALL EXISTING FLOORING TO REMAIN UNLESS OTHERWISE NOTED.
4. ALL EXISTING PARTITIONS, PARTITIONS, DIMENSIONS, FINISHES, ETC. AT THE BUILDING AND
5. ALL EXISTING PARTITIONS, PARTITIONS, DIMENSIONS, FINISHES, ETC. AT THE BUILDING AND
6. ALL EXISTING PARTITIONS, PARTITIONS, DIMENSIONS, FINISHES, ETC. AT THE BUILDING AND
7. ALL EXISTING PARTITIONS, PARTITIONS, DIMENSIONS, FINISHES, ETC. AT THE BUILDING AND

GENERAL NOTES

1. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, FINISHES, ETC. AT THE BUILDING AND
2. ALL SALVAGE ITEMS NOT USED THIS CONTRACT SHALL REMAIN THE PROPERTY OF THE OWNER
3. REPLACE PUNITY GLAZING. ALL EXISTING LIGHT TO REMAIN. PRESERVE JOIST JOINTS TO TIGHTEN UP EXISTING FLOORING. ALL EXISTING FLOORING TO REMAIN UNLESS OTHERWISE NOTED.
4. ALL EXISTING PARTITIONS, PARTITIONS, DIMENSIONS, FINISHES, ETC. AT THE BUILDING AND
5. ALL EXISTING PARTITIONS, PARTITIONS, DIMENSIONS, FINISHES, ETC. AT THE BUILDING AND
6. ALL EXISTING PARTITIONS, PARTITIONS, DIMENSIONS, FINISHES, ETC. AT THE BUILDING AND
7. ALL EXISTING PARTITIONS, PARTITIONS, DIMENSIONS, FINISHES, ETC. AT THE BUILDING AND

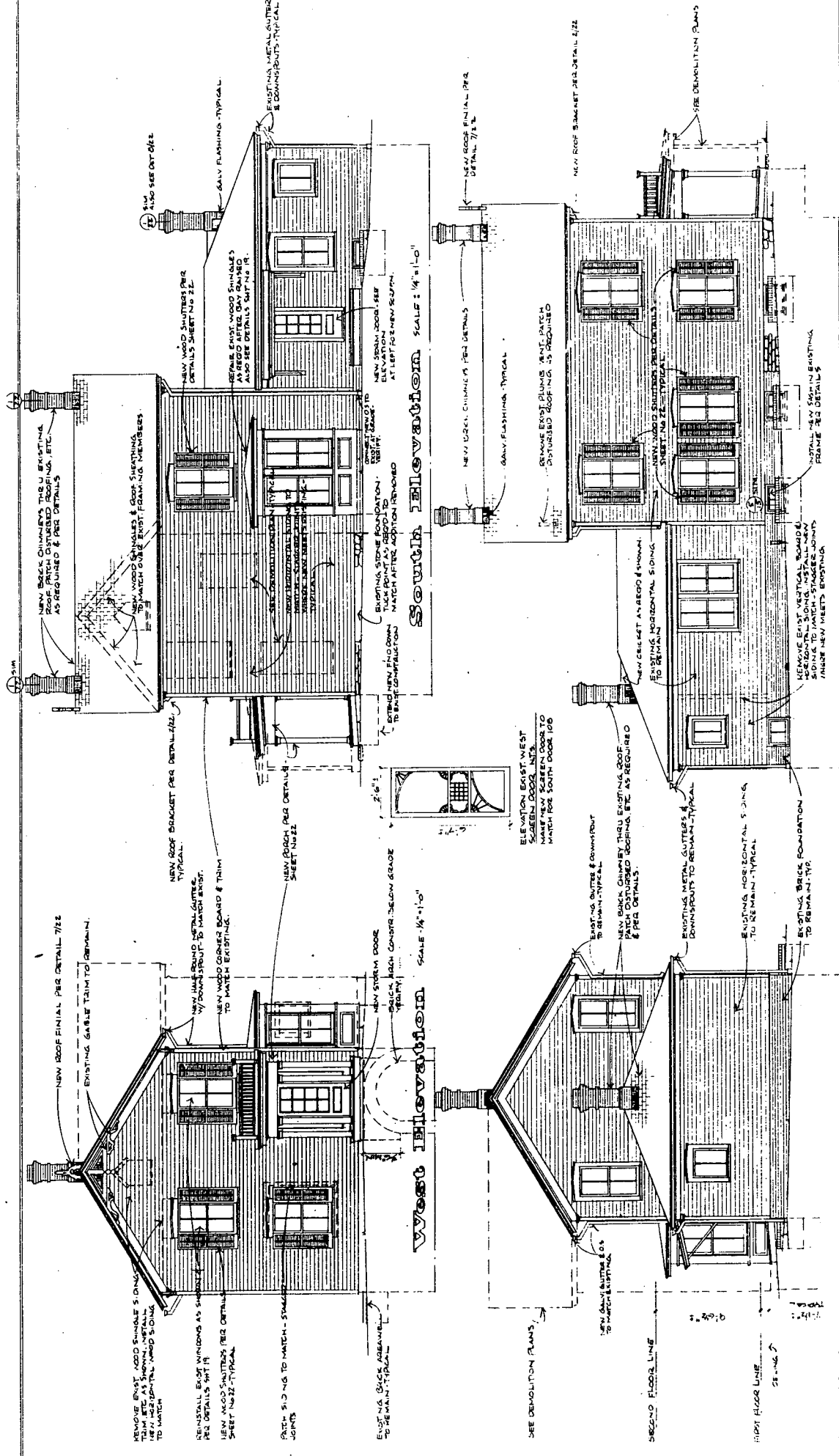
GENERAL NOTES

1. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, FINISHES, ETC. AT THE BUILDING AND
2. ALL SALVAGE ITEMS NOT USED THIS CONTRACT SHALL REMAIN THE PROPERTY OF THE OWNER
3. REPLACE PUNITY GLAZING. ALL EXISTING LIGHT TO REMAIN. PRESERVE JOIST JOINTS TO TIGHTEN UP EXISTING FLOORING. ALL EXISTING FLOORING TO REMAIN UNLESS OTHERWISE NOTED.
4. ALL EXISTING PARTITIONS, PARTITIONS, DIMENSIONS, FINISHES, ETC. AT THE BUILDING AND
5. ALL EXISTING PARTITIONS, PARTITIONS, DIMENSIONS, FINISHES, ETC. AT THE BUILDING AND
6. ALL EXISTING PARTITIONS, PARTITIONS, DIMENSIONS, FINISHES, ETC. AT THE BUILDING AND
7. ALL EXISTING PARTITIONS, PARTITIONS, DIMENSIONS, FINISHES, ETC. AT THE BUILDING AND



NO.	DESCRIPTION	DATE
1	EXIST. HRY. OPNS.	
2	EXIST. HRY. OPNS. (SEE PLAN)	
3	NEW DOOR, R.H. (SEE PLAN)	
4	NEW DOOR, L.H. (SEE PLAN)	
5	NEW DOOR, TYP. (SEE PLAN)	
6	NEW DOOR, TYP. (SEE PLAN)	
7	NEW DOOR, TYP. (SEE PLAN)	
8	NEW DOOR, TYP. (SEE PLAN)	
9	NEW DOOR, TYP. (SEE PLAN)	
10	NEW DOOR, TYP. (SEE PLAN)	
11	NEW DOOR, TYP. (SEE PLAN)	
12	NEW DOOR, TYP. (SEE PLAN)	
13	NEW DOOR, TYP. (SEE PLAN)	
14	NEW DOOR, TYP. (SEE PLAN)	
15	NEW DOOR, TYP. (SEE PLAN)	
16	NEW DOOR, TYP. (SEE PLAN)	
17	NEW DOOR, TYP. (SEE PLAN)	
18	NEW DOOR, TYP. (SEE PLAN)	
19	NEW DOOR, TYP. (SEE PLAN)	
20	NEW DOOR, TYP. (SEE PLAN)	
21	NEW DOOR, TYP. (SEE PLAN)	
22	NEW DOOR, TYP. (SEE PLAN)	
23	NEW DOOR, TYP. (SEE PLAN)	
24	NEW DOOR, TYP. (SEE PLAN)	
25	NEW DOOR, TYP. (SEE PLAN)	
26	NEW DOOR, TYP. (SEE PLAN)	
27	NEW DOOR, TYP. (SEE PLAN)	
28	NEW DOOR, TYP. (SEE PLAN)	
29	NEW DOOR, TYP. (SEE PLAN)	
30	NEW DOOR, TYP. (SEE PLAN)	
31	NEW DOOR, TYP. (SEE PLAN)	
32	NEW DOOR, TYP. (SEE PLAN)	
33	NEW DOOR, TYP. (SEE PLAN)	
34	NEW DOOR, TYP. (SEE PLAN)	
35	NEW DOOR, TYP. (SEE PLAN)	
36	NEW DOOR, TYP. (SEE PLAN)	
37	NEW DOOR, TYP. (SEE PLAN)	
38	NEW DOOR, TYP. (SEE PLAN)	
39	NEW DOOR, TYP. (SEE PLAN)	
40	NEW DOOR, TYP. (SEE PLAN)	
41	NEW DOOR, TYP. (SEE PLAN)	

ON MICROFILM



South Elevation SCALE: 1/4"=1'-0"

West Elevation SCALE: 1/4"=1'-0"

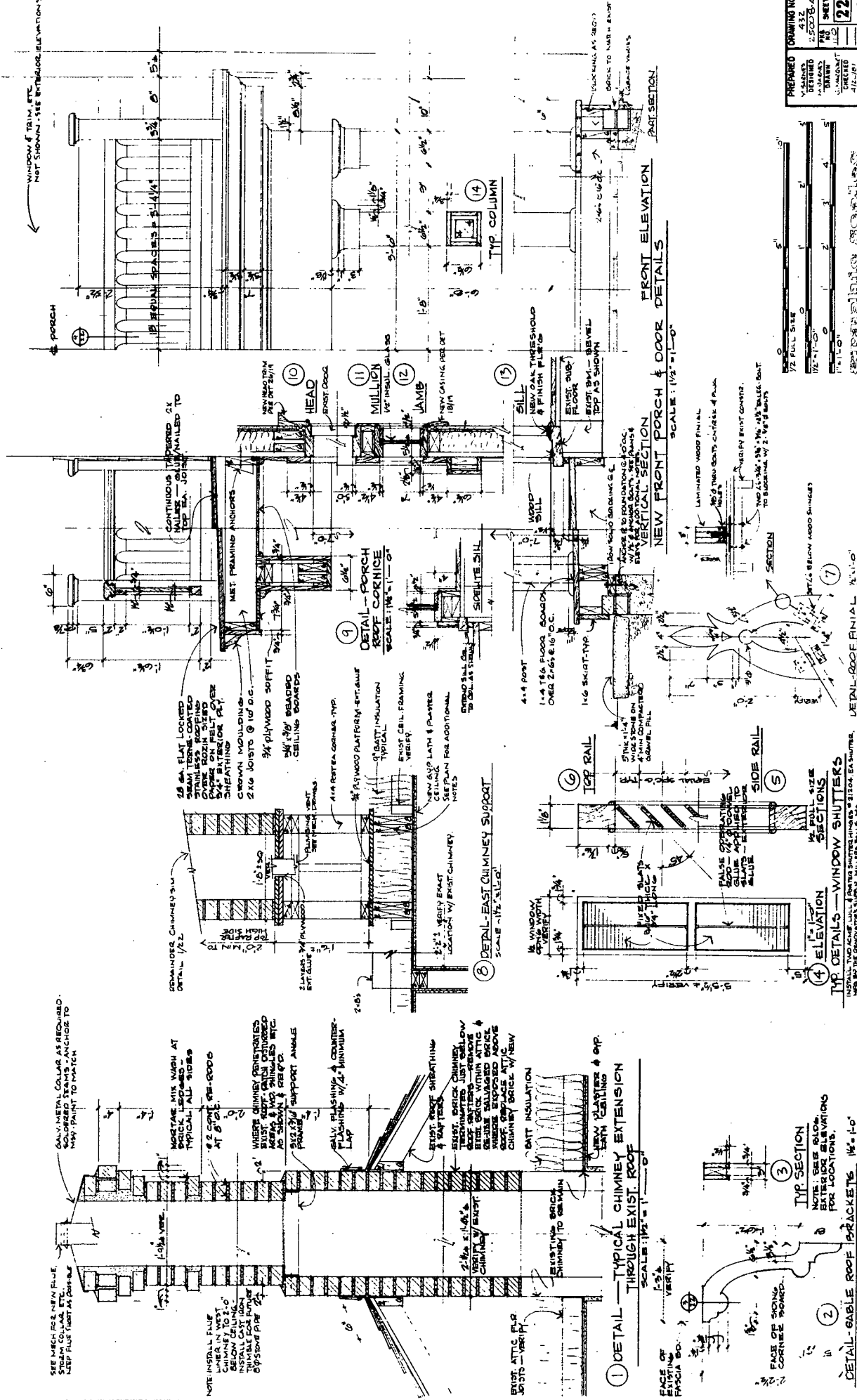
North Elevation SCALE: 1/4"=1'-0"

East Elevation SCALE: 1/4"=1'-0"

PREPARED	DRAWING NO.
DRAWN	DATE
CHECKED	NO. SHEET
APPROVED	21
DATE	11/11/51
BY	414381
	OF 23

GRAPHIC SCALE
0 5' 10'

ON MICROFILM



PREPARED	DATE
DRAWN	DATE
CHECKED	DATE
APPROVED	DATE
PROJECT NO.	432
SHEET NO.	22
TOTAL SHEETS	22

1/2" FULL SIZE	0	1	2	3	4	5
1/4" = 1'-0"	0	1	2	3	4	5
1/8" = 1'-0"	0	1	2	3	4	5

1/2" FULL SIZE	0	1	2	3	4	5
1/4" = 1'-0"	0	1	2	3	4	5
1/8" = 1'-0"	0	1	2	3	4	5

1/2" FULL SIZE	0	1	2	3	4	5
1/4" = 1'-0"	0	1	2	3	4	5
1/8" = 1'-0"	0	1	2	3	4	5

1/2" FULL SIZE	0	1	2	3	4	5
1/4" = 1'-0"	0	1	2	3	4	5
1/8" = 1'-0"	0	1	2	3	4	5

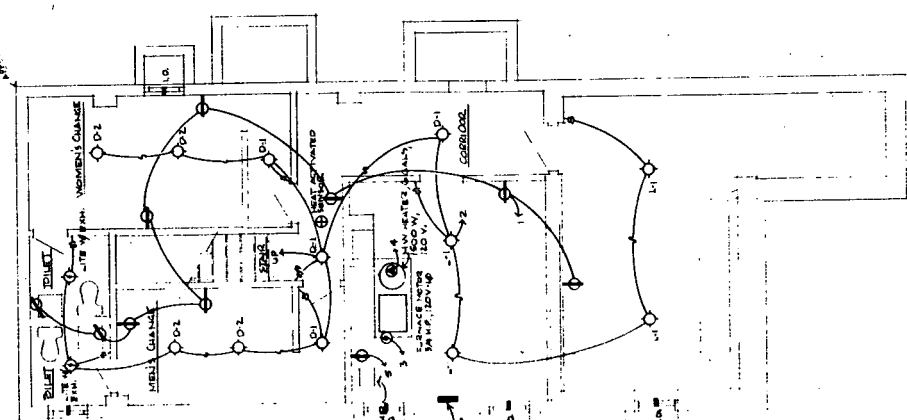
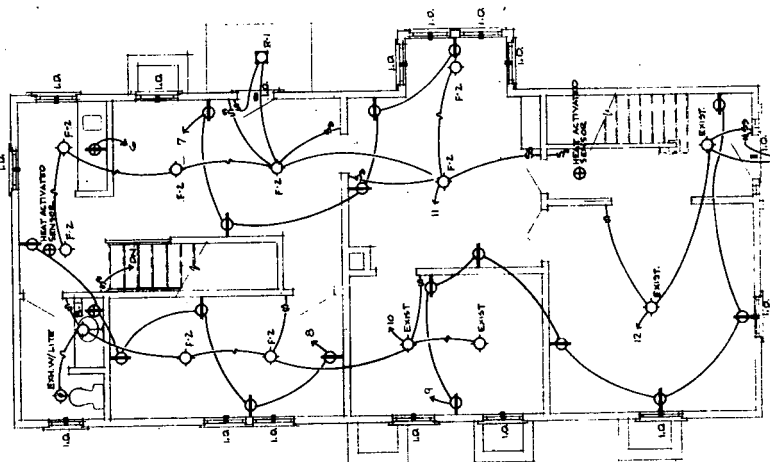
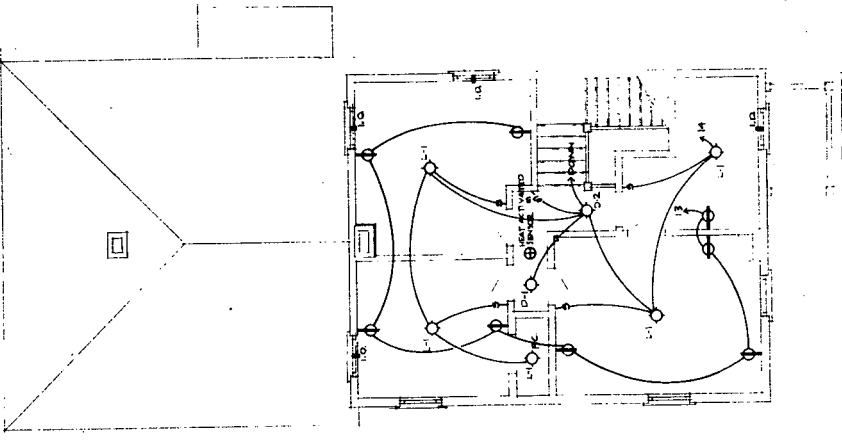
1/2" FULL SIZE	0	1	2	3	4	5
1/4" = 1'-0"	0	1	2	3	4	5
1/8" = 1'-0"	0	1	2 </tr			

1/2" FULL SIZE	0	1	2	3	4	5
1/4" = 1'-0"	0	1	2	3	4	5
1/8" = 1'-0"	0	1	2	3	4	5

ON MICROFILM

ARCHITECTURAL RECORDS

CONDENSING UNIT 230V-1Ø
 TO BE LOCATED IN MECHANICAL ROOM
 TO RELIEVE PRESSURE - PROVIDE 60A-2P
 BREAKER.



RELOCATED BLUE CONDUIT
 TO BE LOCATED IN MECHANICAL ROOM
 TO RELIEVE PRESSURE - PROVIDE 60A-2P
 BREAKER.

MECHANICAL FLOOR PLAN SCALE - 1/4" = 1'-0"

NOTE REMOVE ANY EXISTING ELECTRICAL FIXTURES, CONDUIT,
 PIPING, ETC. BACK TO PANEL, INSTALL ALL NEW WIRING
 ETC. AS SHOWN.
 PROVIDE ALL FIXTURES, SWITCH & OUTLET COVER PLATES, ETC.
 ALL CONDUIT CONCEALED IN FINISH AREAS (CONCEALS MEN'S & WOMEN'S
 ROOMS, MEN'S BATH, STAIRS)

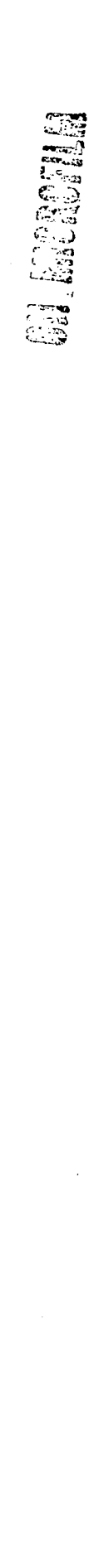
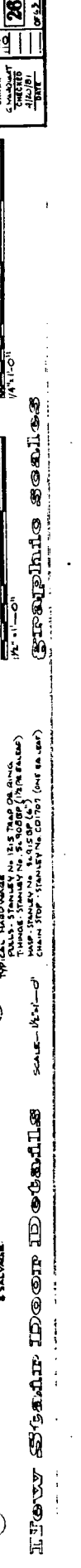
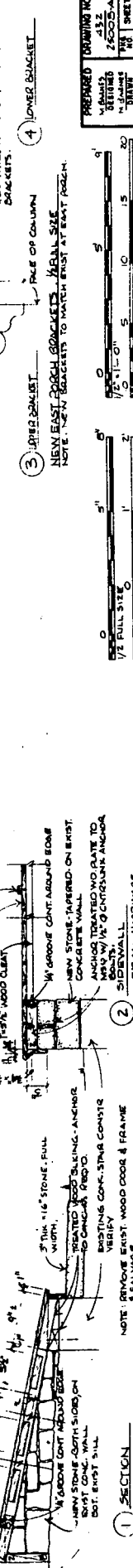
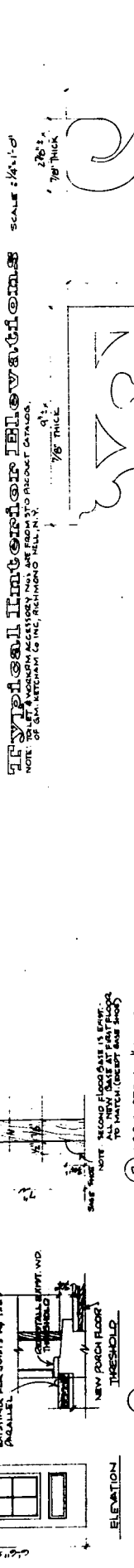
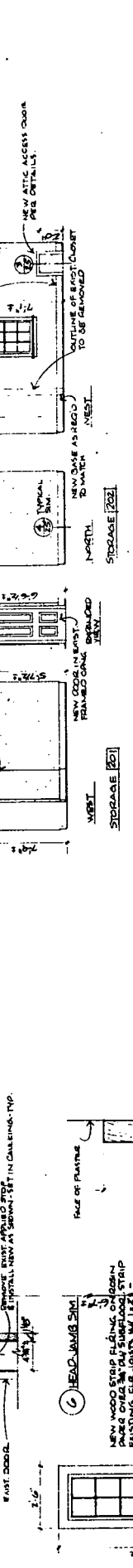
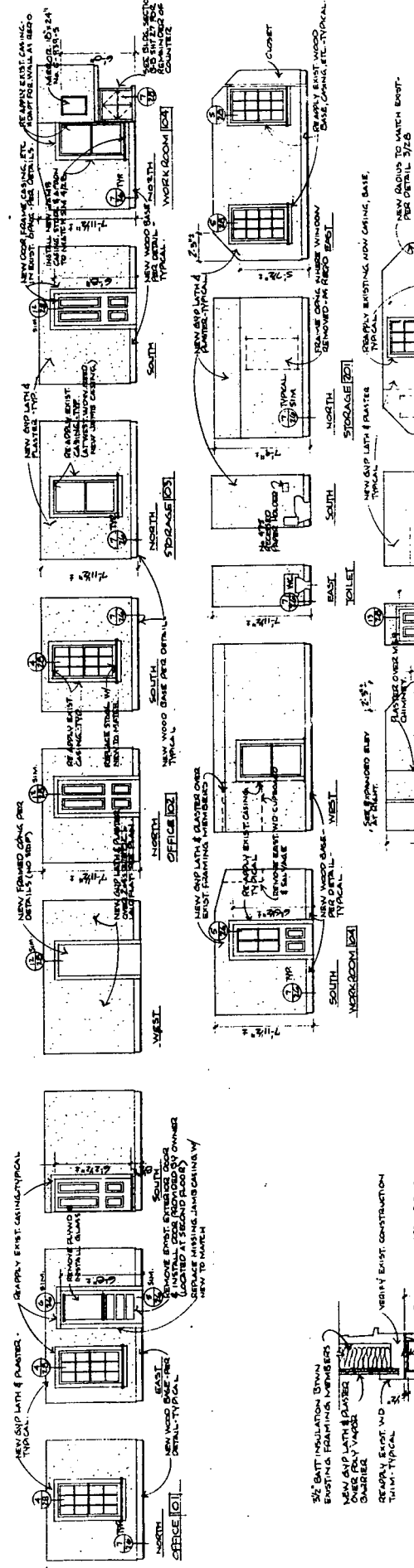
THIRD FLOOR PLAN SCALE - 1/4" = 1'-0"

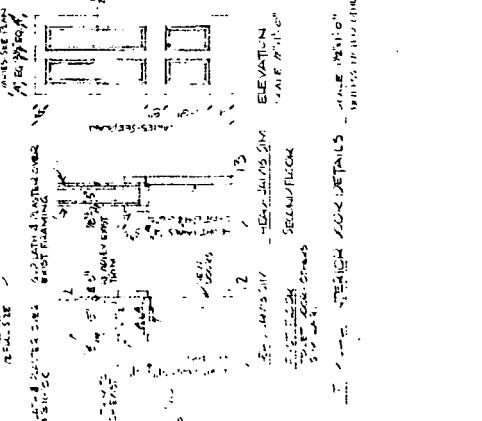
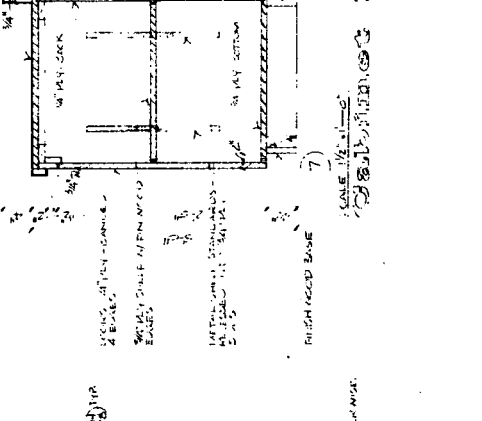
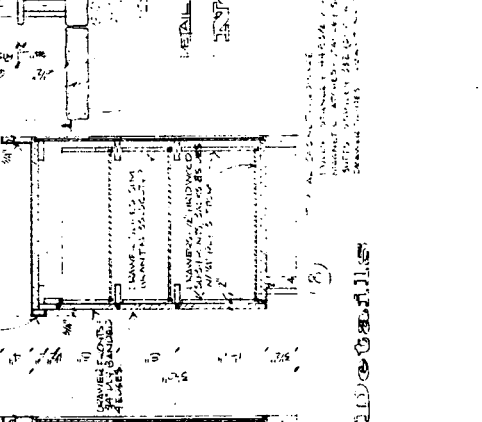
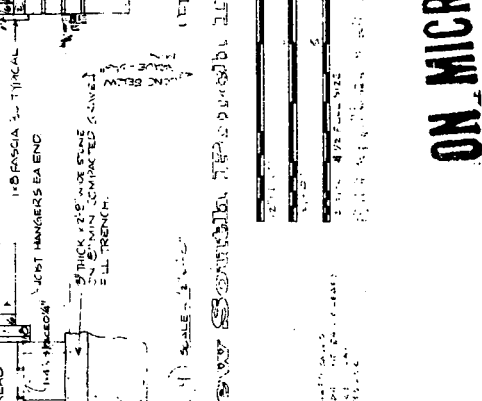
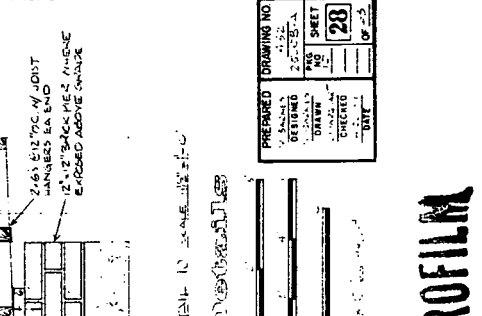
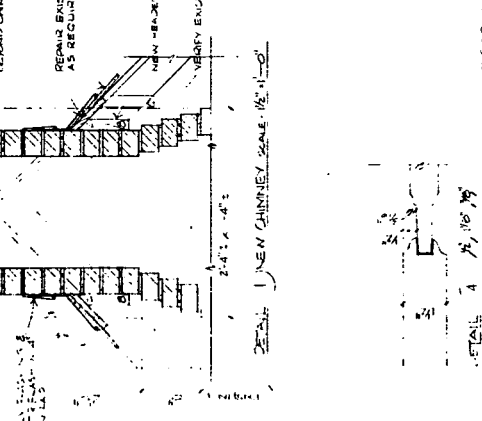
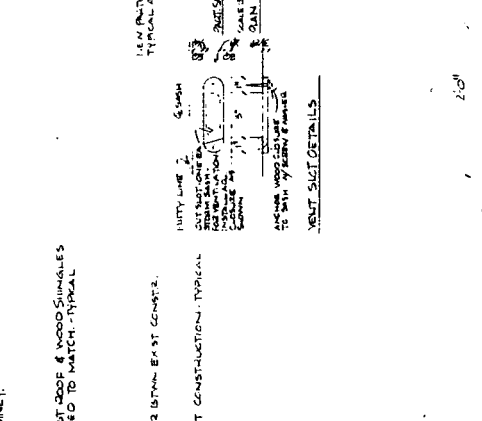
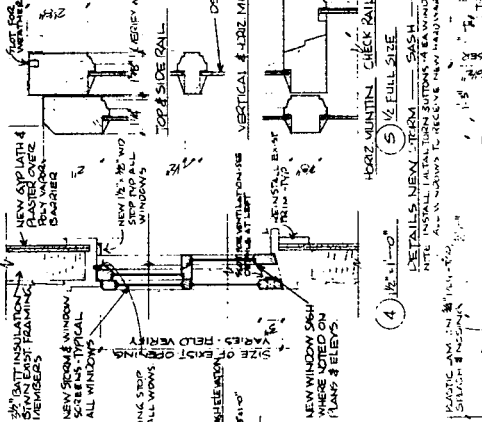
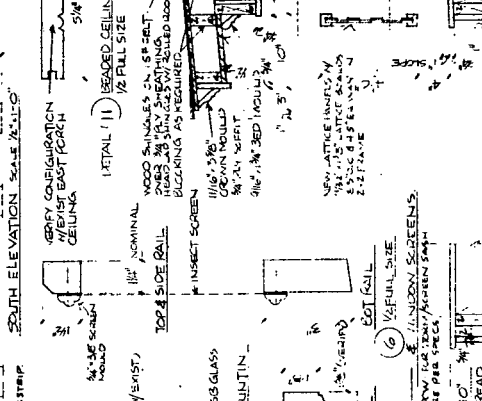
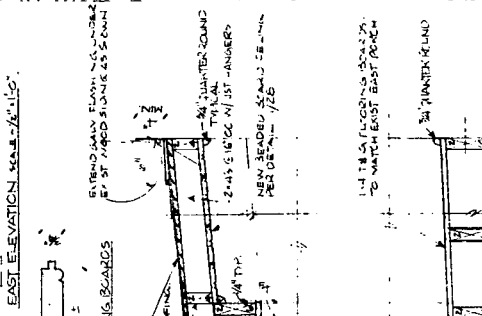
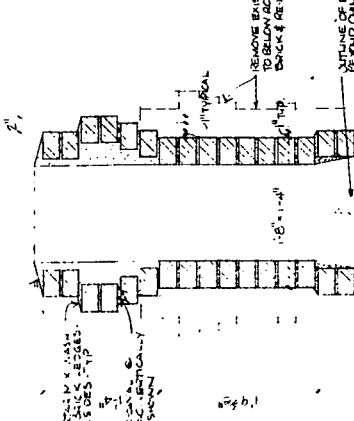
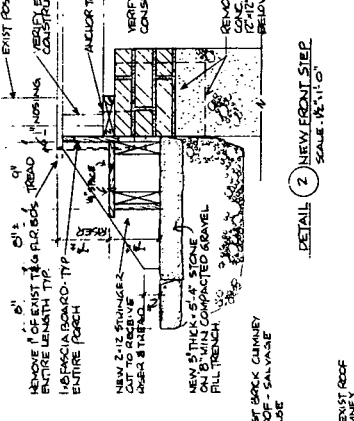
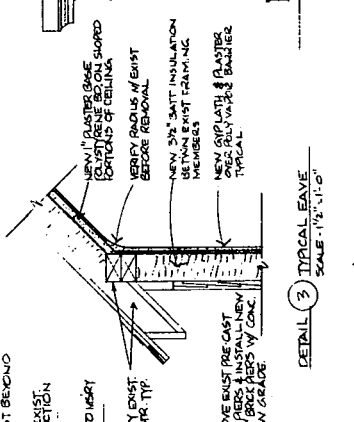
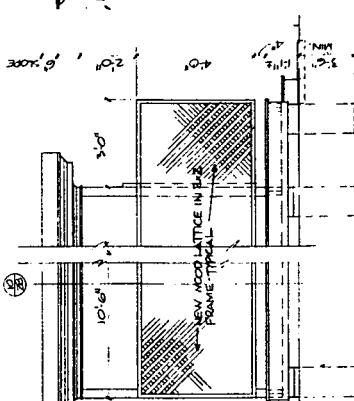
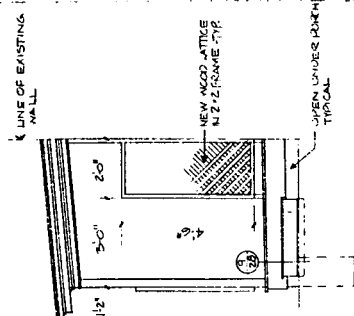
NOTE REMOVE ANY EXISTING ELECTRICAL FIXTURES, CONDUIT,
 PIPING, ETC. BACK TO PANEL, INSTALL ALL NEW WIRING
 ETC. AS SHOWN.
 PROVIDE ALL FIXTURES, SWITCH & OUTLET COVER PLATES, ETC.
 ALL CONDUIT CONCEALED IN FINISH AREAS (CONCEALS MEN'S & WOMEN'S
 ROOMS, MEN'S BATH, STAIRS)



PREPARED	DRAWING NO.	412
CHECKED	DESIGNED	25008-1-E
IN CHARGE	DATE	11/10/50
BY	NO.	24
DATE	SHEET	1 OF 2

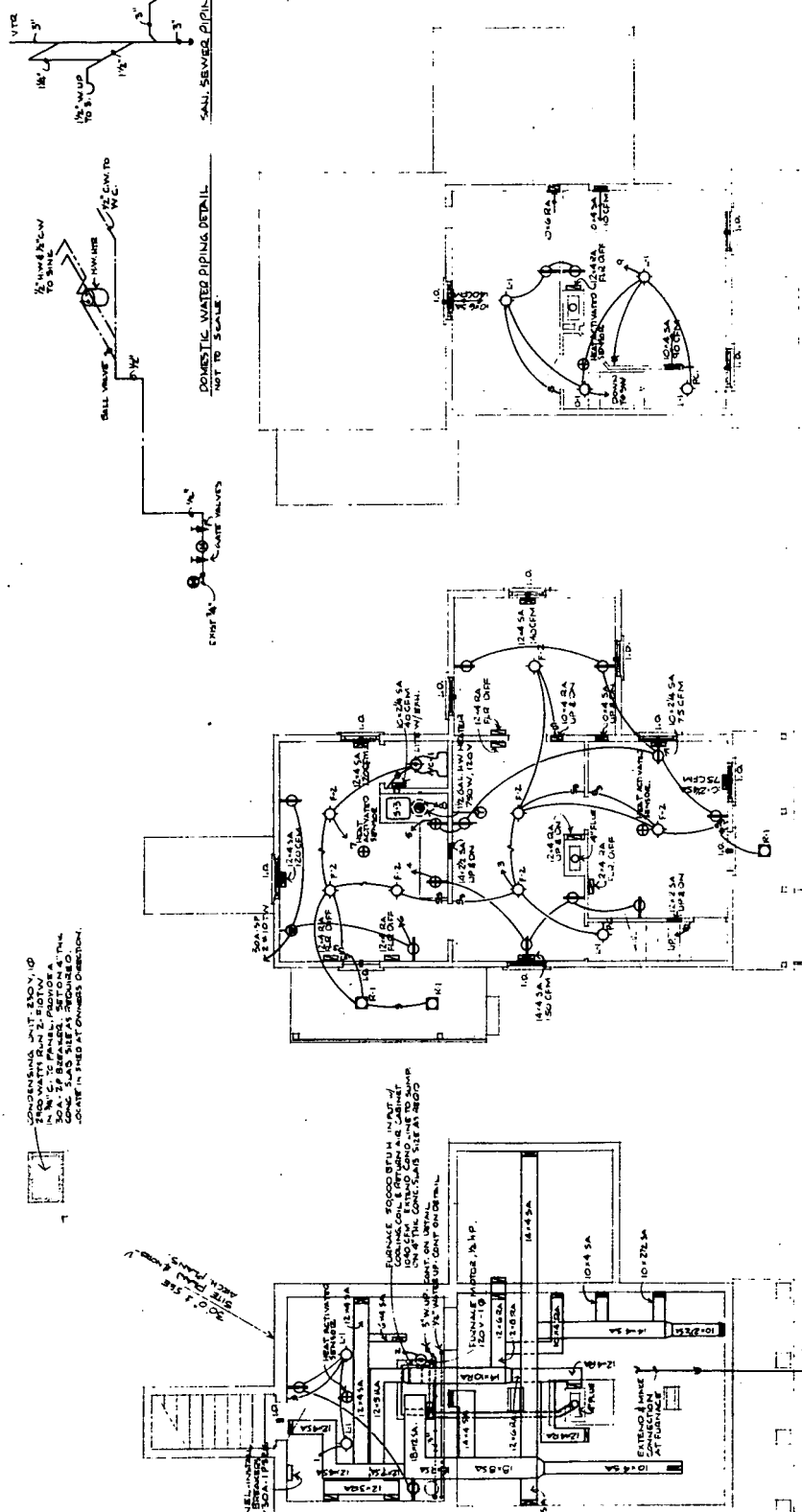
W. W. WOODMAN



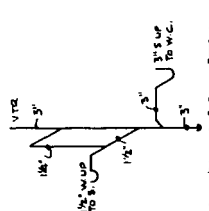


PREPARED	DRAWING NO.	28
CHECKED	SHEET	28
DRAWN	NO.	28
DATE		

ON MICROFILM



CONDENSING UNIT, EXPOSED TO WASH ROOM, 2' EXPOSED TO WASH ROOM, 2' EXPOSED TO WASH ROOM. CONDENSING UNIT, EXPOSED TO WASH ROOM, 2' EXPOSED TO WASH ROOM, 2' EXPOSED TO WASH ROOM. CONDENSING UNIT, EXPOSED TO WASH ROOM, 2' EXPOSED TO WASH ROOM, 2' EXPOSED TO WASH ROOM.



DOMESTIC WATER PIPING DETAIL NOT TO SCALE

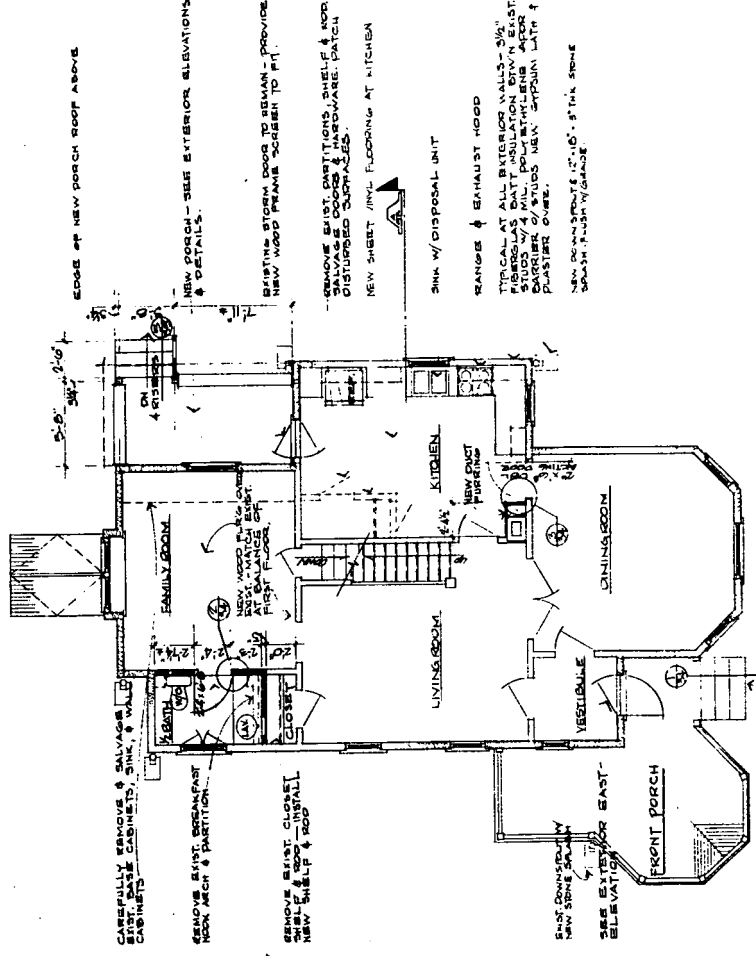
SANITARY SEWER PIPING DETAIL NOT TO SCALE

SECOND FLOOR PLAN SCALE: 1/8" = 1'-0"

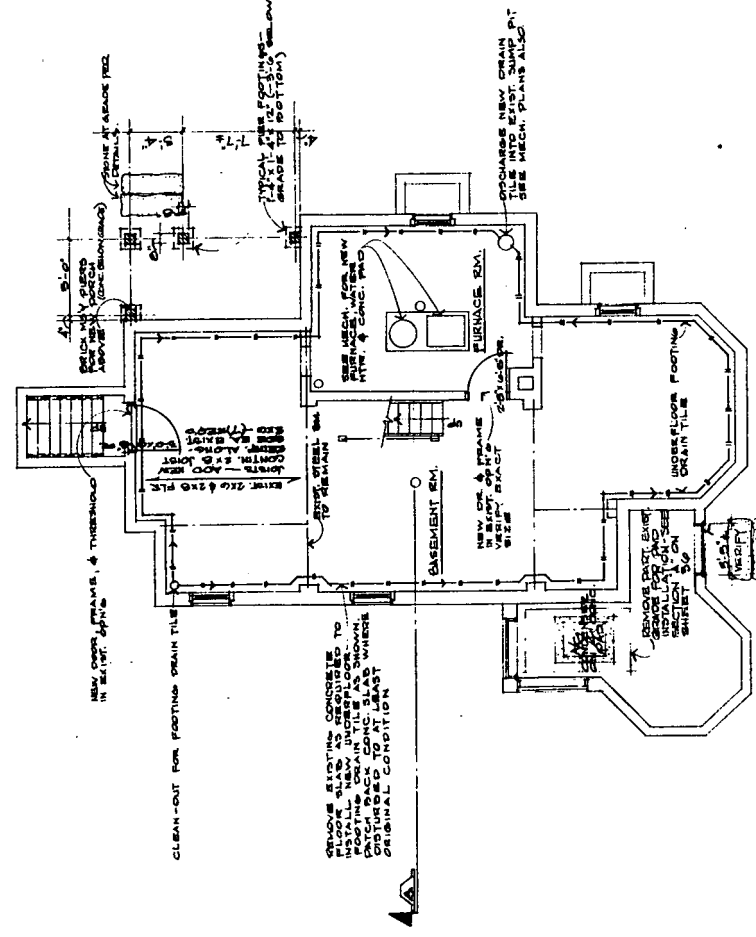
CONDENSING UNIT, EXPOSED TO WASH ROOM, 2' EXPOSED TO WASH ROOM, 2' EXPOSED TO WASH ROOM. CONDENSING UNIT, EXPOSED TO WASH ROOM, 2' EXPOSED TO WASH ROOM, 2' EXPOSED TO WASH ROOM.

PROJECT NO.	152
DATE	10-22-54
DESIGNED BY	W. J. BROWN
CHECKED BY	W. J. BROWN
SCALE	AS SHOWN
SHEET NO.	29
TOTAL SHEETS	40
DATE	10-22-54

ON MICROFILM



FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"



BASMENT FLOOR PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS. SALVAGED SHALL REMAIN THE PROPERTY OF THE OWNER.
2. ALL EXISTING INTERIOR PAINTED SURFACES TO BE REMOVED & REPAINT AS SPECIFIED FOR NEW WORK.
3. AT ALL EXIST. INTERIOR PAINTED SURFACES STOP TO REMOVE WOOD CASING TRIM.
4. CAREFULLY REMOVE & SALVAGE FOR REAPPLICATION ALL EXIST. INTERIOR WOOD BASE, DOOR & WINDOW CASING TRIM.
5. REMOVE ALL INTERIOR EXIST. WOOD LATH & PLASTER - TYPICAL AT WALLS & CEILINGS. ALL ROOMS BOTH FLOORS.
6. REMOVE ALL INTERIOR EXIST. WOOD LATH & PLASTER - TYPICAL AT WALLS & CEILINGS. ALL ROOMS BOTH FLOORS.
7. REMOVE ALL EXIST. WOOD LATH & PLASTER. REPAIR & FINISH AS SPECIFIED UNDER THIS CONTRACT - TYPICAL.
8. REMOVE ALL EXIST. WOOD LATH & PLASTER. REPAIR & FINISH AS SPECIFIED UNDER THIS CONTRACT - TYPICAL.
9. REMOVE ALL EXIST. WOOD LATH & PLASTER. REPAIR & FINISH AS SPECIFIED UNDER THIS CONTRACT - TYPICAL.
10. REMOVE ALL EXIST. WOOD LATH & PLASTER. REPAIR & FINISH AS SPECIFIED UNDER THIS CONTRACT - TYPICAL.
11. REMOVE ALL EXIST. WOOD LATH & PLASTER. REPAIR & FINISH AS SPECIFIED UNDER THIS CONTRACT - TYPICAL.
12. REMOVE ALL EXIST. WOOD LATH & PLASTER. REPAIR & FINISH AS SPECIFIED UNDER THIS CONTRACT - TYPICAL.
13. REMOVE ALL EXIST. WOOD LATH & PLASTER. REPAIR & FINISH AS SPECIFIED UNDER THIS CONTRACT - TYPICAL.
14. REMOVE ALL EXIST. WOOD LATH & PLASTER. REPAIR & FINISH AS SPECIFIED UNDER THIS CONTRACT - TYPICAL.
15. REMOVE ALL EXIST. WOOD LATH & PLASTER. REPAIR & FINISH AS SPECIFIED UNDER THIS CONTRACT - TYPICAL.
16. REMOVE ALL EXIST. WOOD LATH & PLASTER. REPAIR & FINISH AS SPECIFIED UNDER THIS CONTRACT - TYPICAL.
17. REMOVE ALL EXIST. WOOD LATH & PLASTER. REPAIR & FINISH AS SPECIFIED UNDER THIS CONTRACT - TYPICAL.
18. REMOVE ALL EXIST. WOOD LATH & PLASTER. REPAIR & FINISH AS SPECIFIED UNDER THIS CONTRACT - TYPICAL.
19. REMOVE ALL EXIST. WOOD LATH & PLASTER. REPAIR & FINISH AS SPECIFIED UNDER THIS CONTRACT - TYPICAL.
20. REMOVE ALL EXIST. WOOD LATH & PLASTER. REPAIR & FINISH AS SPECIFIED UNDER THIS CONTRACT - TYPICAL.



STANDARD ARCHITECTURAL SYMBOLS

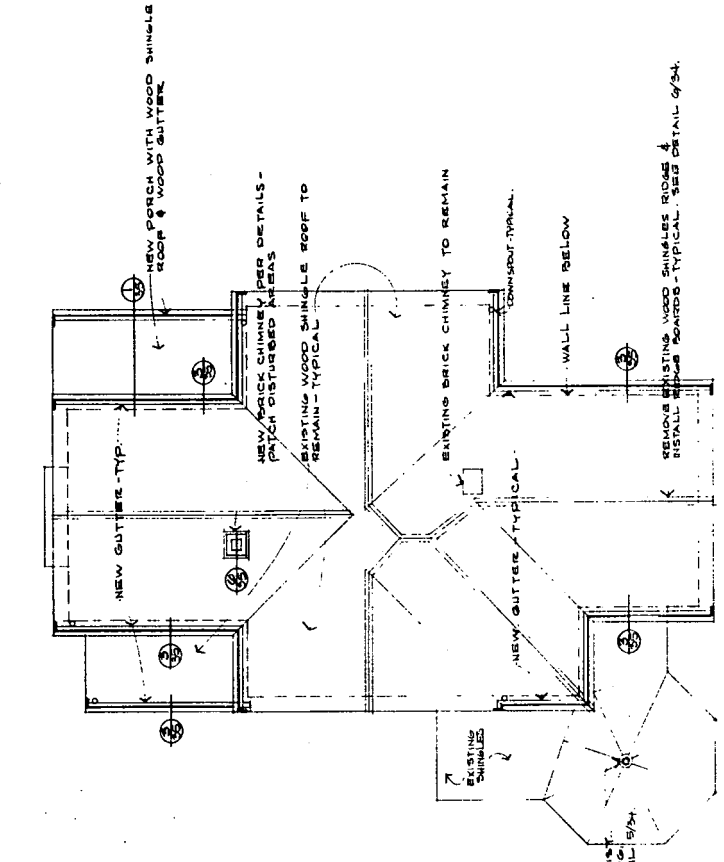
PROJECT SHEET NUMBER (SEE LIST OF SHEETS AT REAR OF DRAWING)	PREPARED BY	DATE
	CHECKED BY	DATE
DRAWING NO. 133 133-133-133-133	TITLE OF DRAWING	SCALE
	LOCATION WITHIN PARK	COUNTY
SHEET NO. 30	DESIGNED BY	STATE
	CHECKED BY	CITY
UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE DENVER SERVICE CENTER		

ON MICROFILM

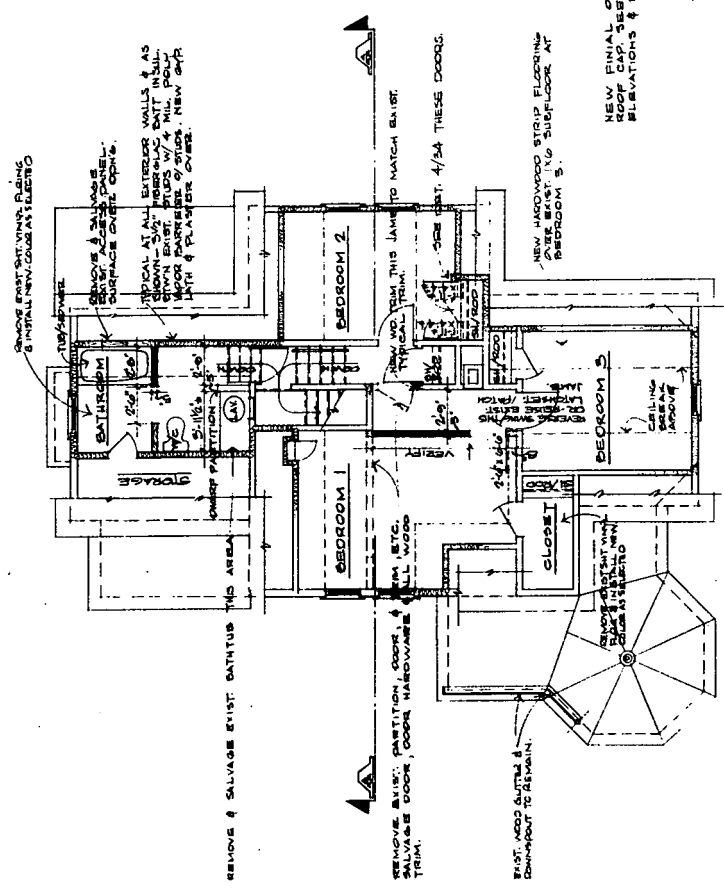


GRAPHIC SCALE

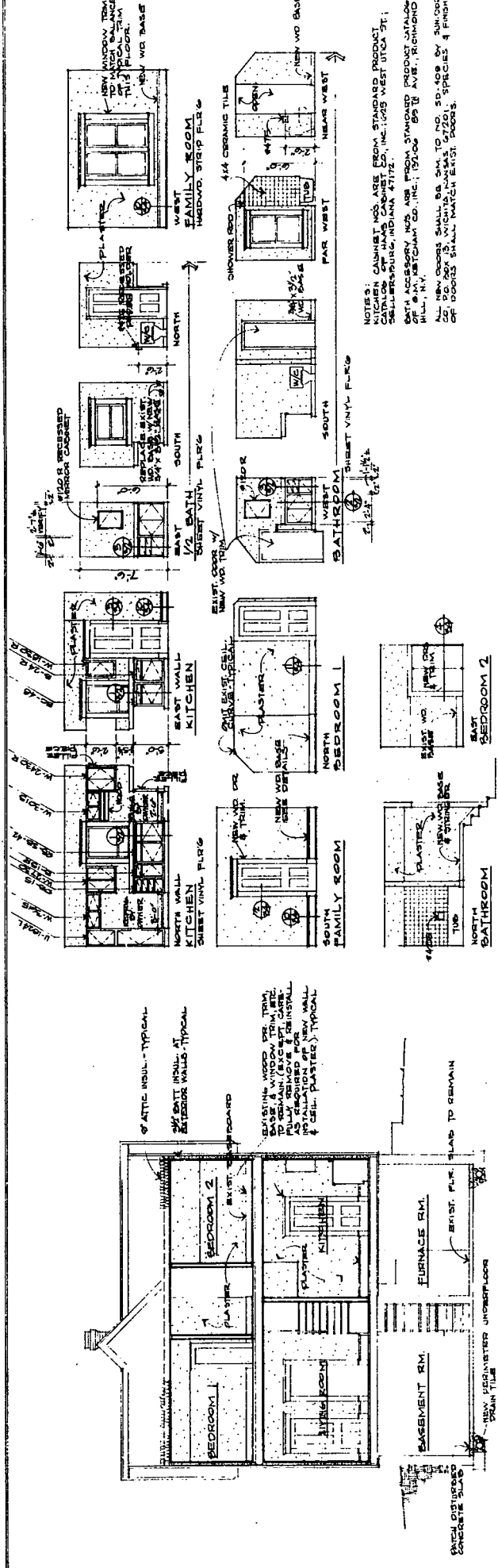
ON MICROFILM



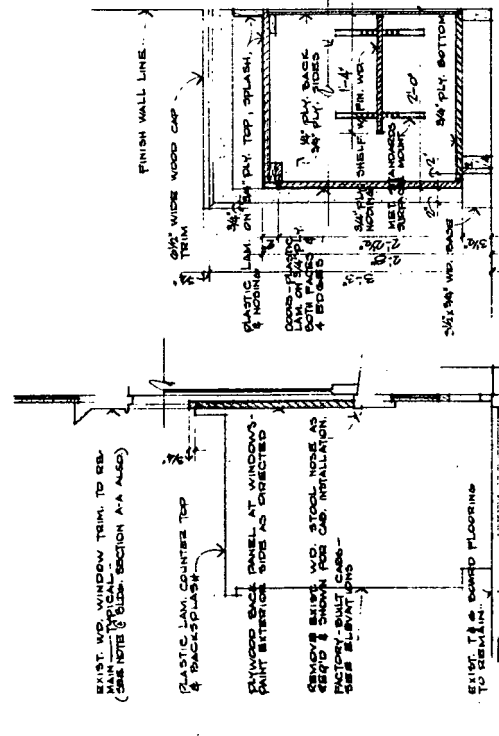
ROOF PLAN
SCALE: 1/4" = 1'-0"



SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"



Building Section A-A



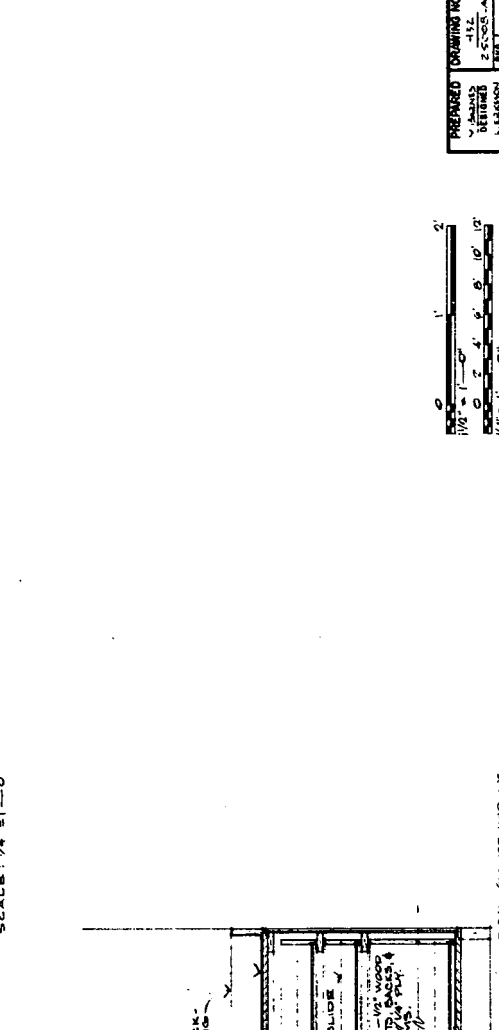
DETAIL 1

DETAIL 2

DETAIL 3

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

Interior Elevations



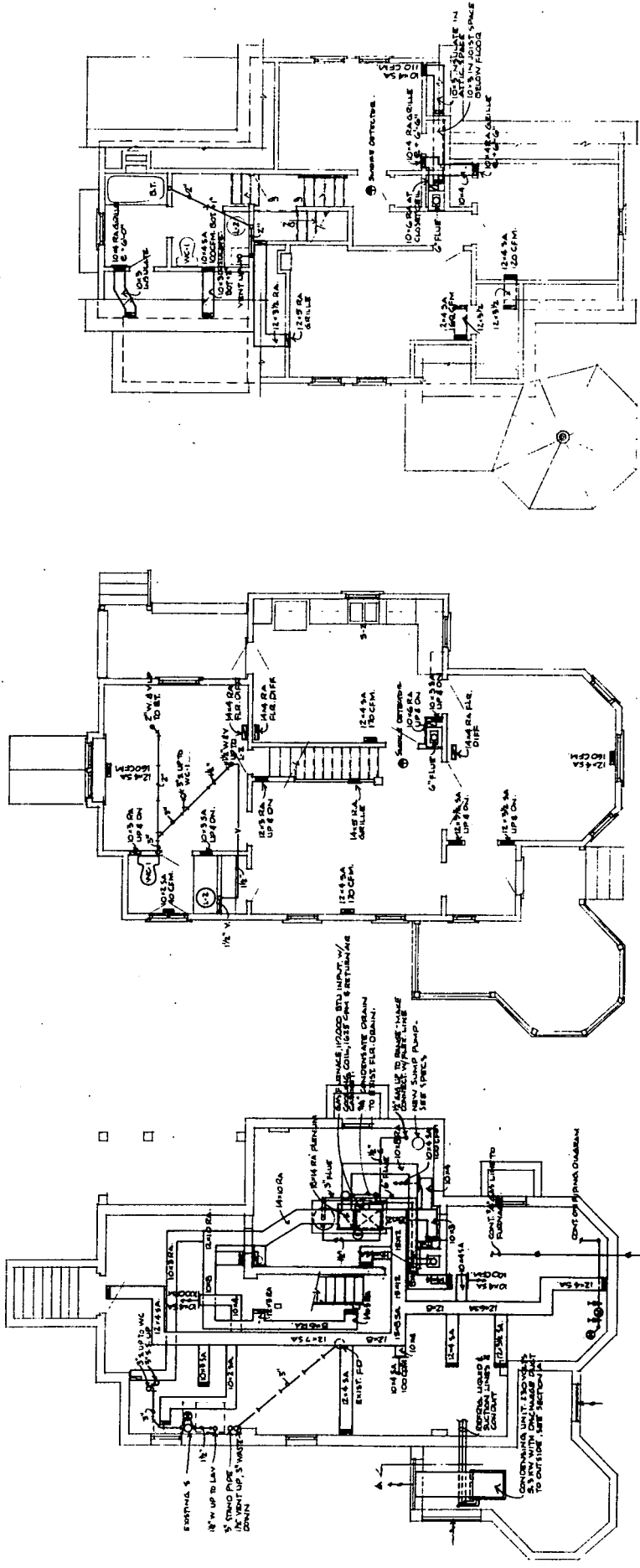
STAIRCASE ELEVATIONS

WINDMILL INDUSTRIES SCALE: 1/4" = 1'-0"

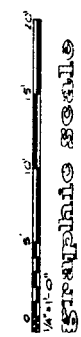
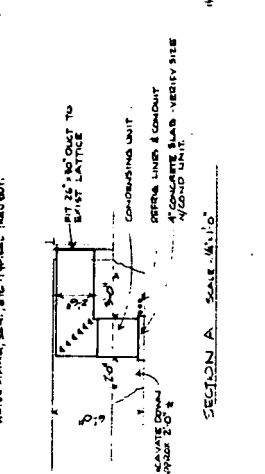
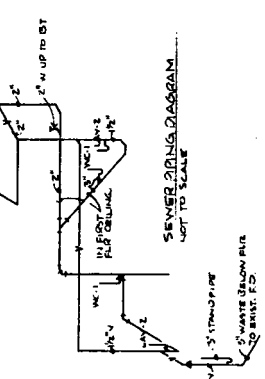
NOTES:
KITCHEN CABINET NO. ARE FROM STANDARD PRODUCT, CHICAGO, ILL. 1025 WEST UICIA ST., CHICAGO, ILL. 60644.
BATH ACCESSORY NO. ARE FROM STANDARD PRODUCT, STANLEY OF S.A. BATHING CO., INC., 15200 85TH AVE., RICHMOND HILL, N.Y.
ALL NEW DOORS SHALL BE 3 1/2" TO NO. 50, 408 BY JUNIOR OF DOORS SHALL MATCH EXIST. DOORS.

PREPARED	DRAWING NO.	452
DESIGNED	BY	WINDMILL INDUSTRIES
CHECKED	DATE	11/11/68
DATE	SHEET	32
	OF	32

WINDMILL INDUSTRIES

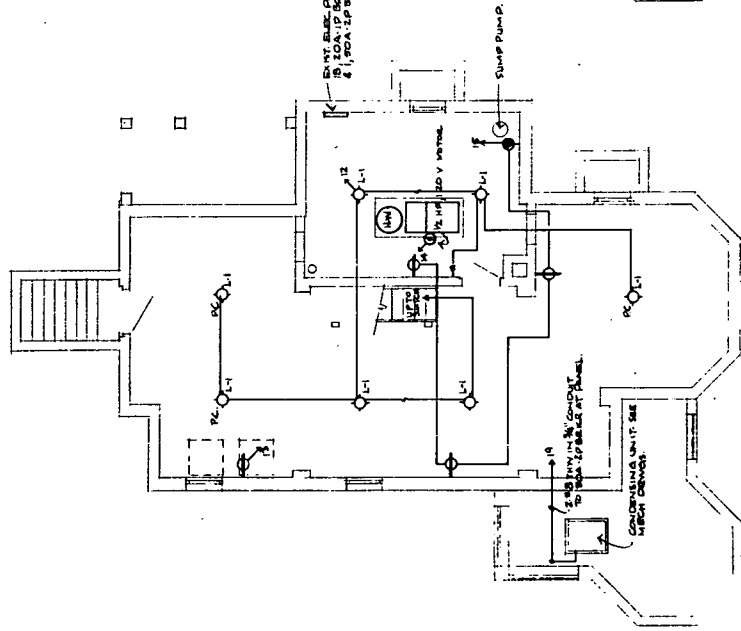


REVISIONS TO PLUMBING PLAN 410
 NOTE: CHANGE ALL EXISTING PIPING RUNNERS (SEE ABOVE PLAN FOR LOCATIONS).
 WATER PIPING, SANITARY PIPING, THROUGH.

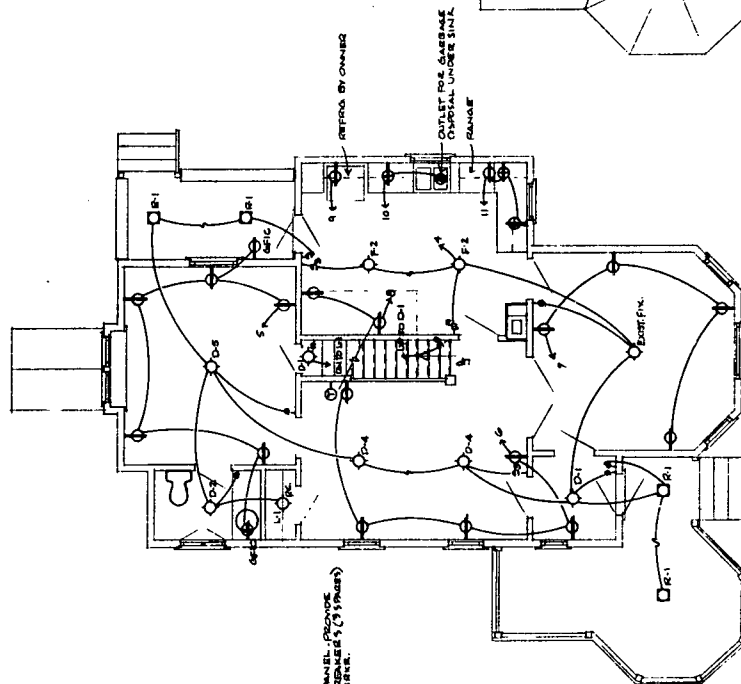


PREPARED	DRAWING NO.	412
DESIGNED	BY	SPROCK
CHECKED	DATE	11/11/54
APPROVED	SHEET	36
DATE	OF	52

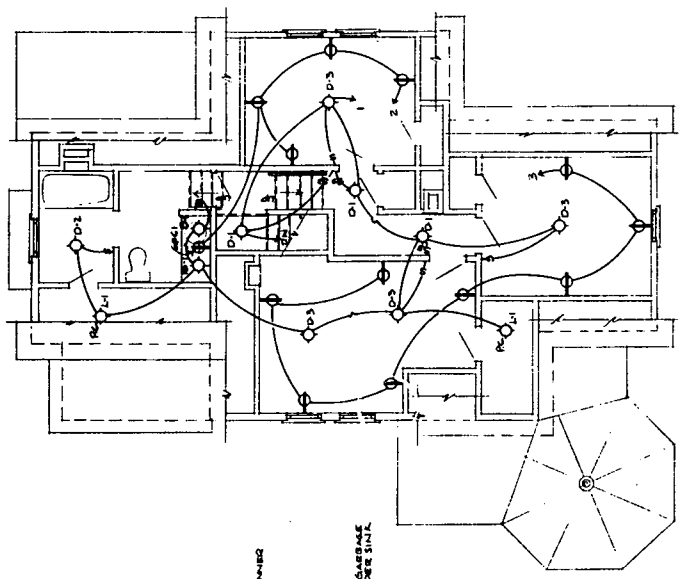
ON MICROFILM



FIRST FLOOR ELECTRICAL FLOOR PLAN SCALE - 1/4"=1'-0"
 REPAIRS TO BE MADE TO EXISTING ELECTRICAL SYSTEM, CONDUIT, WIRING, ETC. BACK TO PANEL INSTALL ALL NEW WIRING SEE AS SHOWN.
 SEE DRAWING UNIT SEE ELECTRICAL CONTRACTOR FOR LOCATION OF PANEL

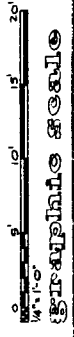


SECOND FLOOR ELECTRICAL FLOOR PLAN SCALE - 1/4"=1'-0"

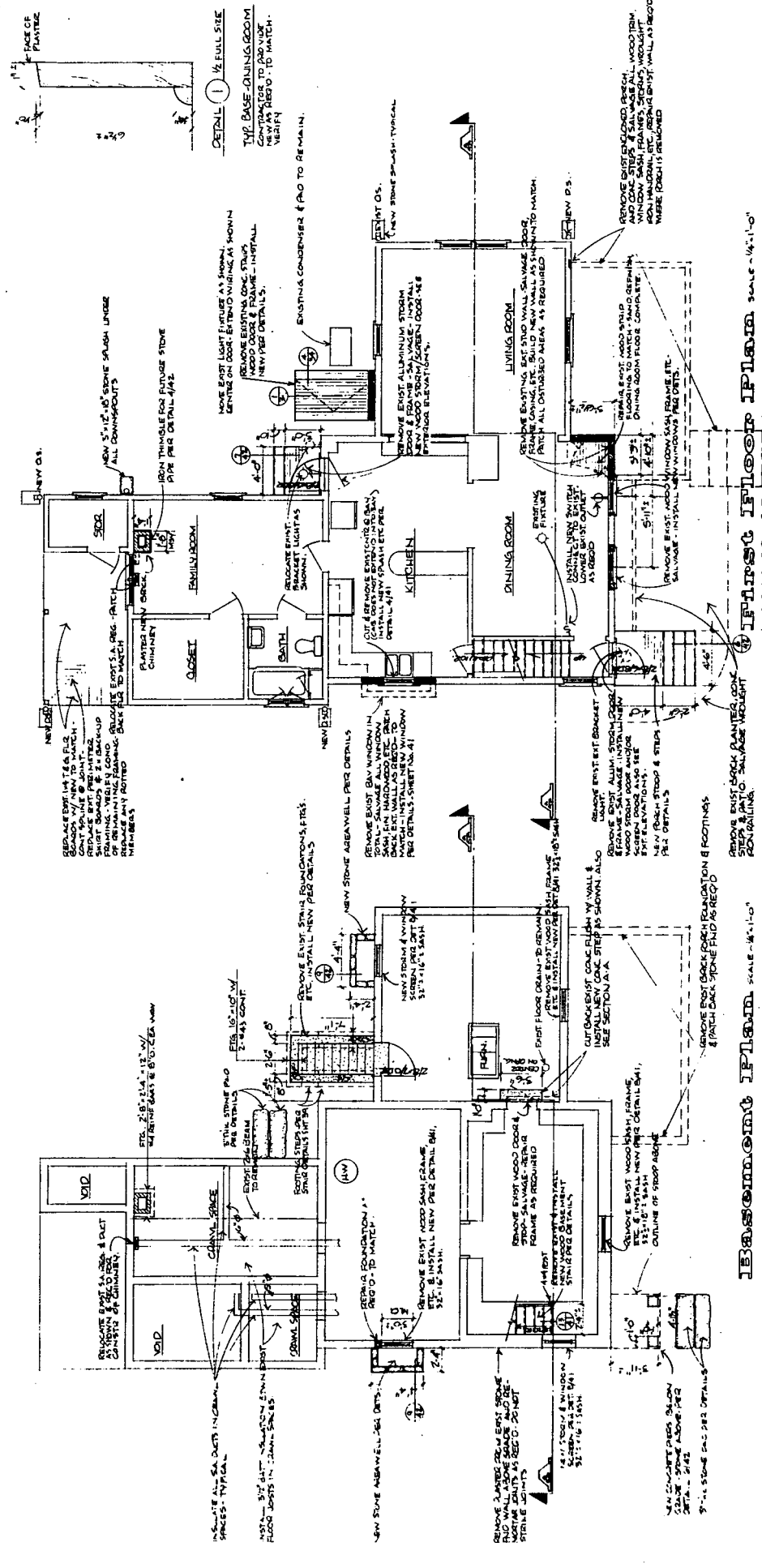


THIRD FLOOR ELECTRICAL FLOOR PLAN SCALE - 1/4"=1'-0"

PREPARED	DRAWING NO.	412
BY	DATE	2-20-67
CHECKED	BY	37
DATE	PROJECT	
	SHEET	
	OF	62



ON MICROFILM



GENERAL NOTES

- 1) VERIFY ALL EXISTING DIMENSIONS & FEATURES ETC. AT THE BALCONY
- 2) ALL NEW WORK TO BE REMOVED & SALVAGED SHALL REMAIN THE PROPERTY OF THE OWNER. TYPICAL
- 3) FINISHES TO BE SHOWN SHALL BE MAINTAINED & REPLACE PUTTY GROUTING AT AREAS WHERE DEBRICATED
- 4) ALL NEW WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL HAZARDOUS WASTE ACT. ALL NEW WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL HAZARDOUS WASTE ACT. ALL NEW WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL HAZARDOUS WASTE ACT.
- 5) PAINT WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL HAZARDOUS WASTE ACT.

REAR PORCH FLOOR PLAN SCALE - 1/4" = 1'-0"

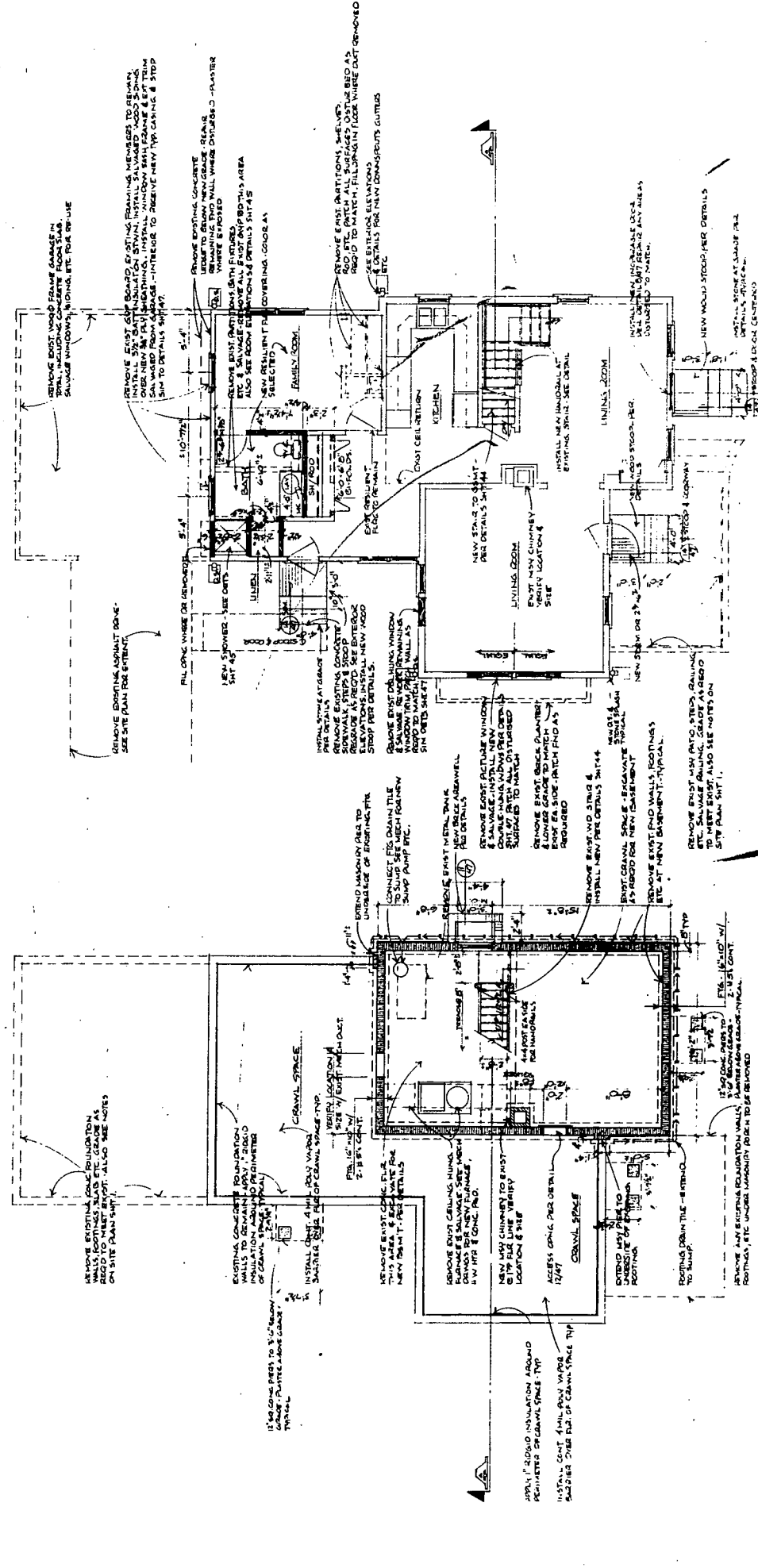
LIVING ROOM FLOOR PLAN SCALE - 1/4" = 1'-0"



STAPLE'S BOARDS

DRAWING NO. 432 DATE 2/28/88 SHEET 100 OF 303	TITLE OF DRAWING JAMES STAPLES HOUSE HS-9 LOCATION WITHIN PARK POPLAR STREET NAME OF PARK ROBERT HOOPER NATIONAL HISTORIC SITE MIDWEST REGIONAL OFFICE COUNTY STATE DATE
PREPARED BY MCKENNA DRAWING BY MCKENNA CHECKED BY MCKENNA DATE 4/25/88	UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE CENTER SERVICE CENTER

ON MICROFILM



FIRST FLOOR PLAN SCALE - 1/8" = 1'-0"

GENERAL NOTES

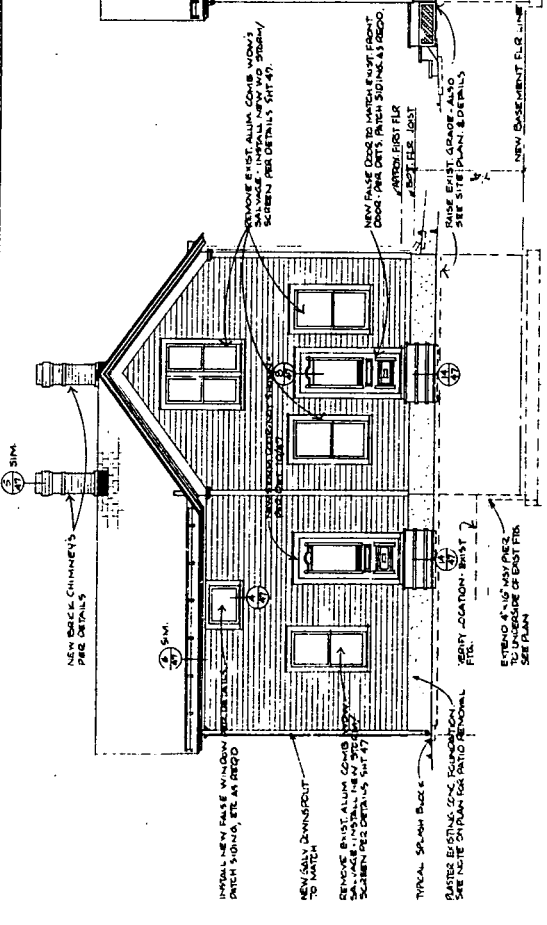
- 1) VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, FIXTURES, ETC. AT THE BUILDING - TYPICAL
- 2) ALL ITEMS LISTED TO BE REMOVED & SALVAGED & NOT REUSED THIS CONTRACT SHALL REMAIN THE PROPERTY OF THE OWNER - TYPICAL
- 3) EXAMINE ALL EXISTING WORK TO REMAIN & REPLACE PUTTY GLAZING AT AREAS WHERE DETERIORATED, LEAKS OR MISSING.
- 4) 2" x 4" JOINT FROM ALL EXISTING BATTENED WOOD & METAL SURFACES TO REMAIN TYP. UPRIGHT.
- 5) SEE WORK AROUND EXTERIOR OF HOUSE (SCHEDULED) TO VERIFY EXISTING GRADING WHERE GRADING DISTURBED BY EXCAVATION.
- 6) ALL NEW CONSTRUCTION, ALL GRADING TO BE DONE FROM HOUSE MIN. 1/2" PER FOOT ALSO SEE SITE PLAN SHEET 1.

STRAPLICO SOLE

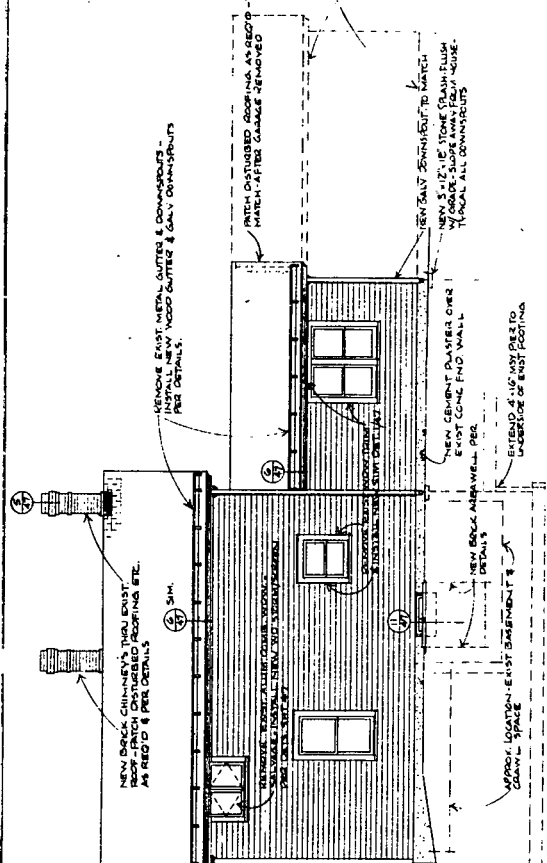
0 5 10 15 20
 NORTH

PREPARED BY	STRAPLICO SOLE
DESIGNED BY	STRAPLICO SOLE
DATE	1/10/78
DRAWING NO.	432
PROJECT NO.	250005/A
CLIENT	E.S. HILTHUS HOUSE 1510 C
LOCATION	WILSON STREET
CITY	ST. LOUIS
STATE	MISSOURI
COUNTY	ST. LOUIS
OWNER	HERBERT HOOVER NATIONAL HISTORIC SITE
ADDRESS	1510 C WILSON STREET
CITY	ST. LOUIS
STATE	MISSOURI
COUNTY	ST. LOUIS

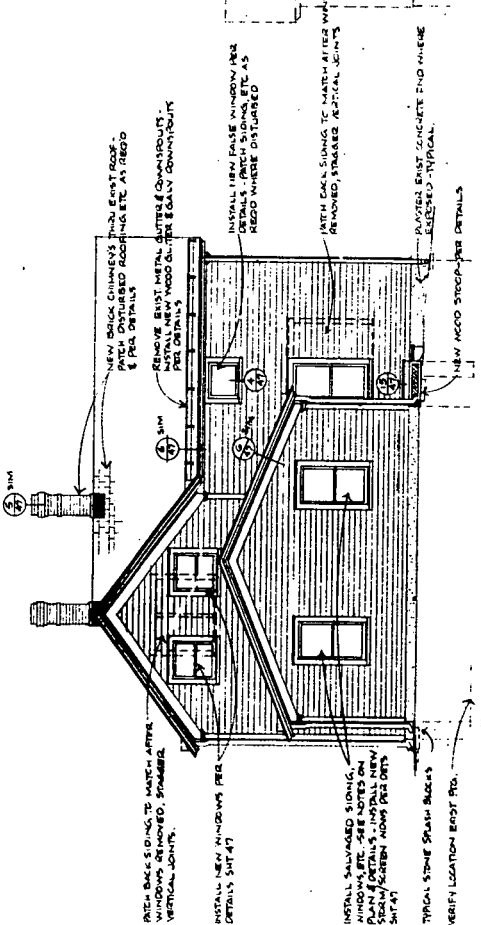
HERBERT HOOVER NATIONAL HISTORIC SITE



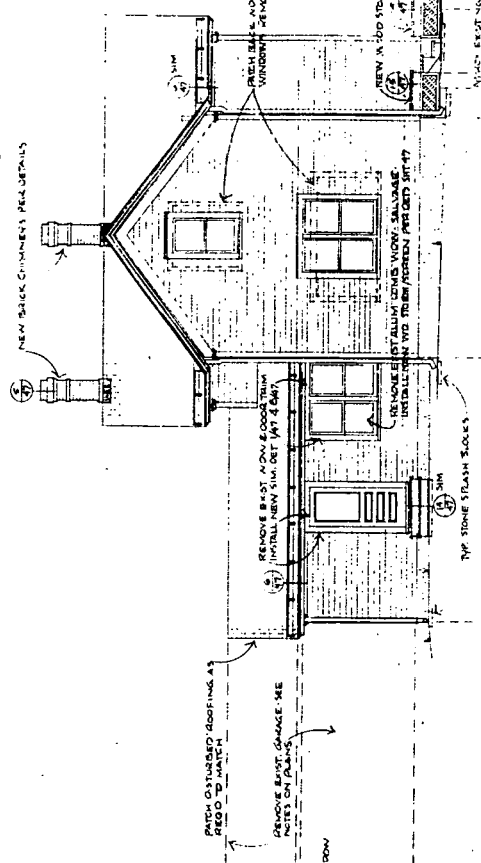
West Elevation SCALE - 1/4" = 1'-0"



North Elevation SCALE - 1/4" = 1'-0"



East Elevation SCALE - 1/4" = 1'-0"

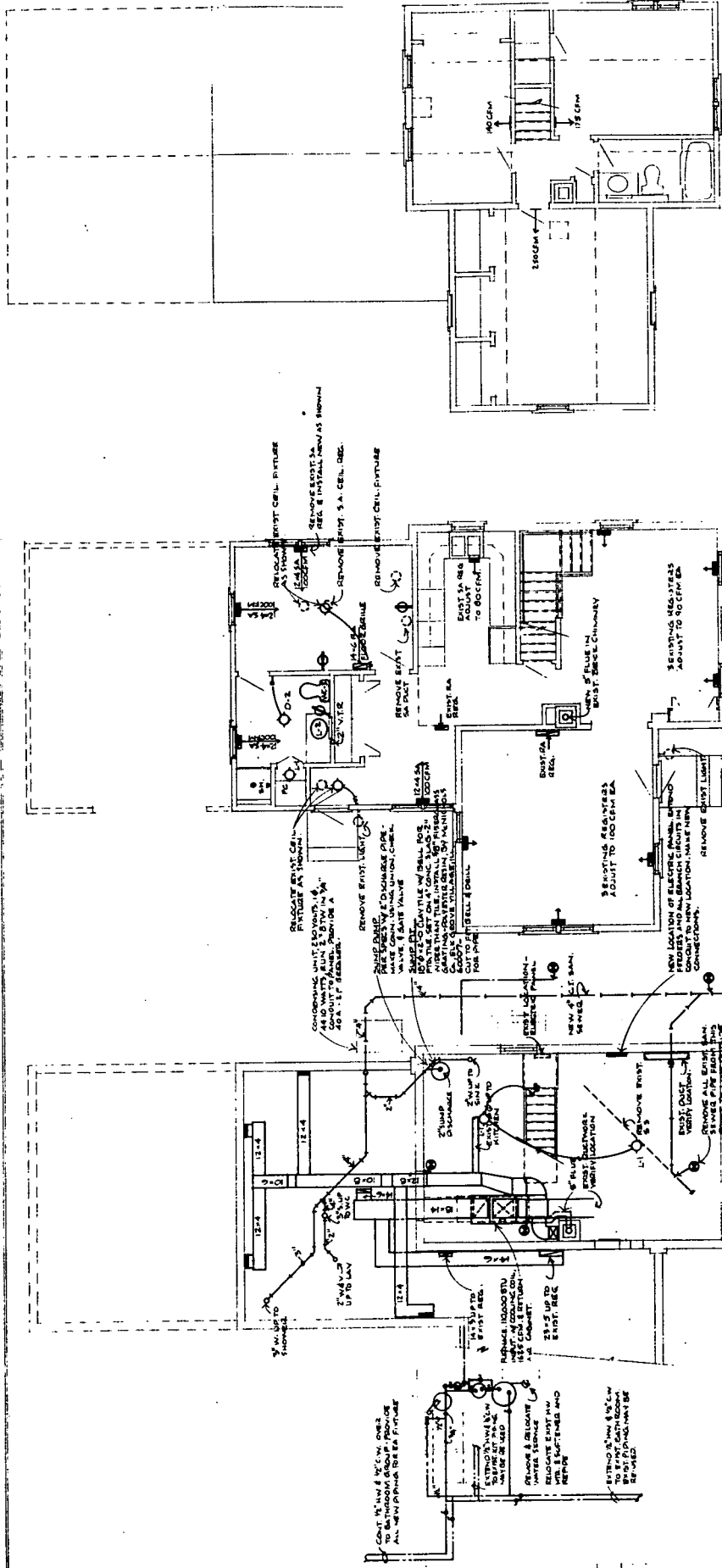


South Elevation SCALE - 1/4" = 1'-0"

PREPARED BY	DATE
CHECKED BY	DATE
DESIGNED BY	DATE
DRAWING NO.	48
SHEET	OF 2

GRAPHIC SCALE

ON MICROFILM



NOTE: EXISTING REGISTER THIS FLOOR - ADJUST CEM AS REQUIRED & SHOWN.

Second Floor I.P.L.A.M. SCALE 1/4"=1'-0"

First Floor I.P.L.A.M. SCALE 1/4"=1'-0"

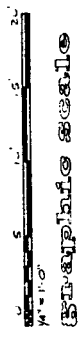
Basement I.P.L.A.M. SCALE 1/4"=1'-0"

NOTE: REMOVE EXIST. ELECTRICAL FIXTURES, OUTLETS & WIRES IN GARAGE BATH & LAUNDRY TO BE REINSTALLED TO PANEL. SALVAGE FIXTURES. SEE PLAN FOR ADDITIONAL DEMOLITION.

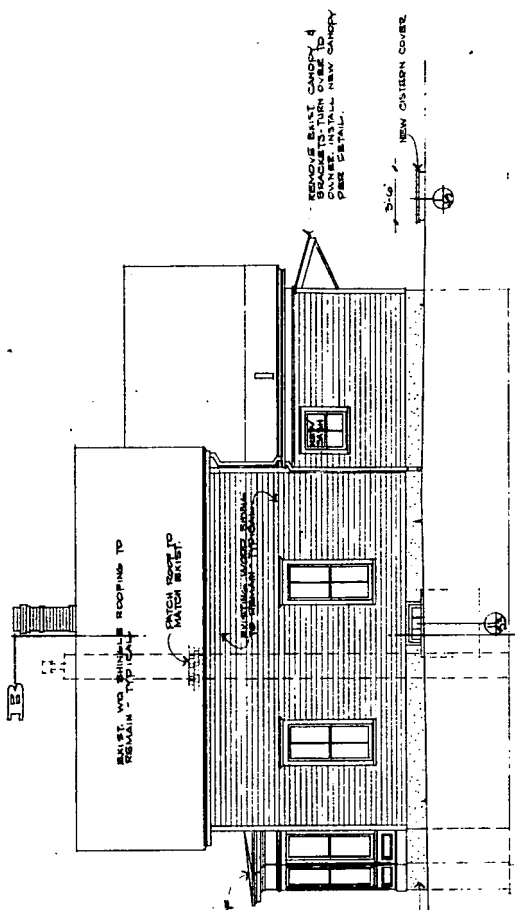
NOTES: REMOVE EXIST. FLOOR BATH FIXTURES & SALVAGE (ALSO SEE ARCH PLAN). REMOVE ALL EXIST. SAN TOWER TO LINE OUTSIDE AND WATER PIPING BACK TO SERVICE. REMOVE ALL EXISTING DUCTWORK WEST OF BASEMENT AREA.

PARTIAL WATER PIPING DIAGRAM
NOT TO SCALE

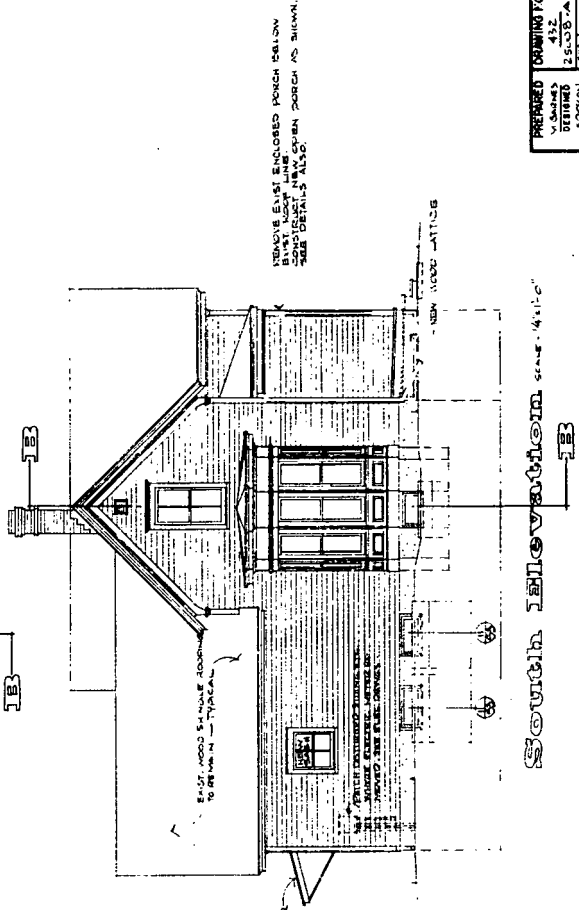
PREPARED BY	DATE	SCALE	SHEET NO.
DESIGNED BY	2-22-55	1/4"=1'-0"	48
CHECKED BY			
APPROVED BY			
DRAWING NO.		DATE	
2-22-55		4/24/51	



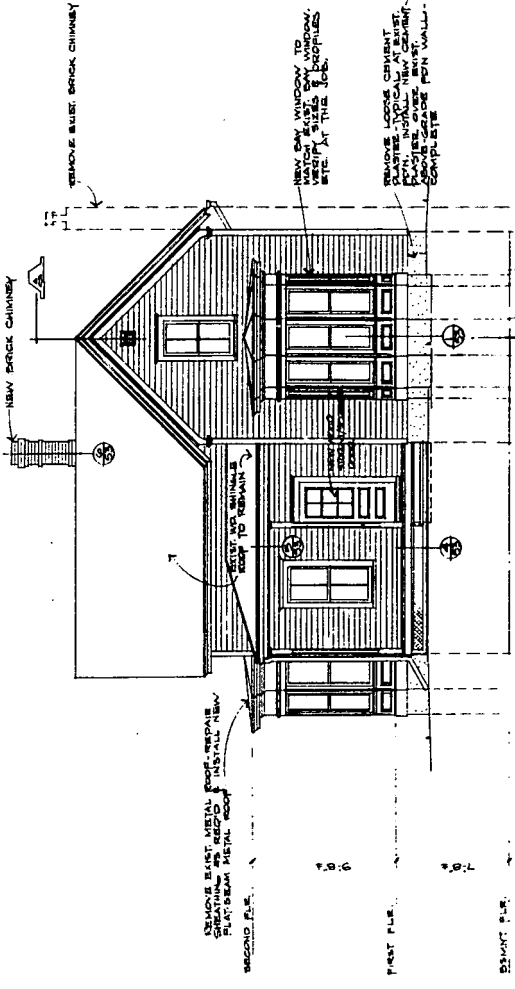
Microfilm



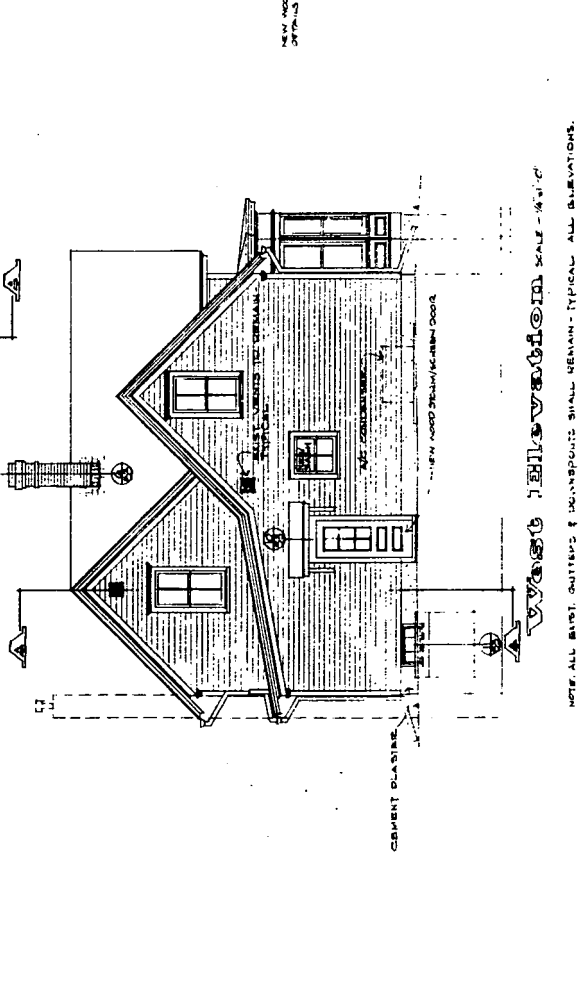
North Elevation Scale - 1/4" = 1'-0"



South Elevation Scale - 1/4" = 1'-0"



East Elevation Scale - 1/4" = 1'-0"



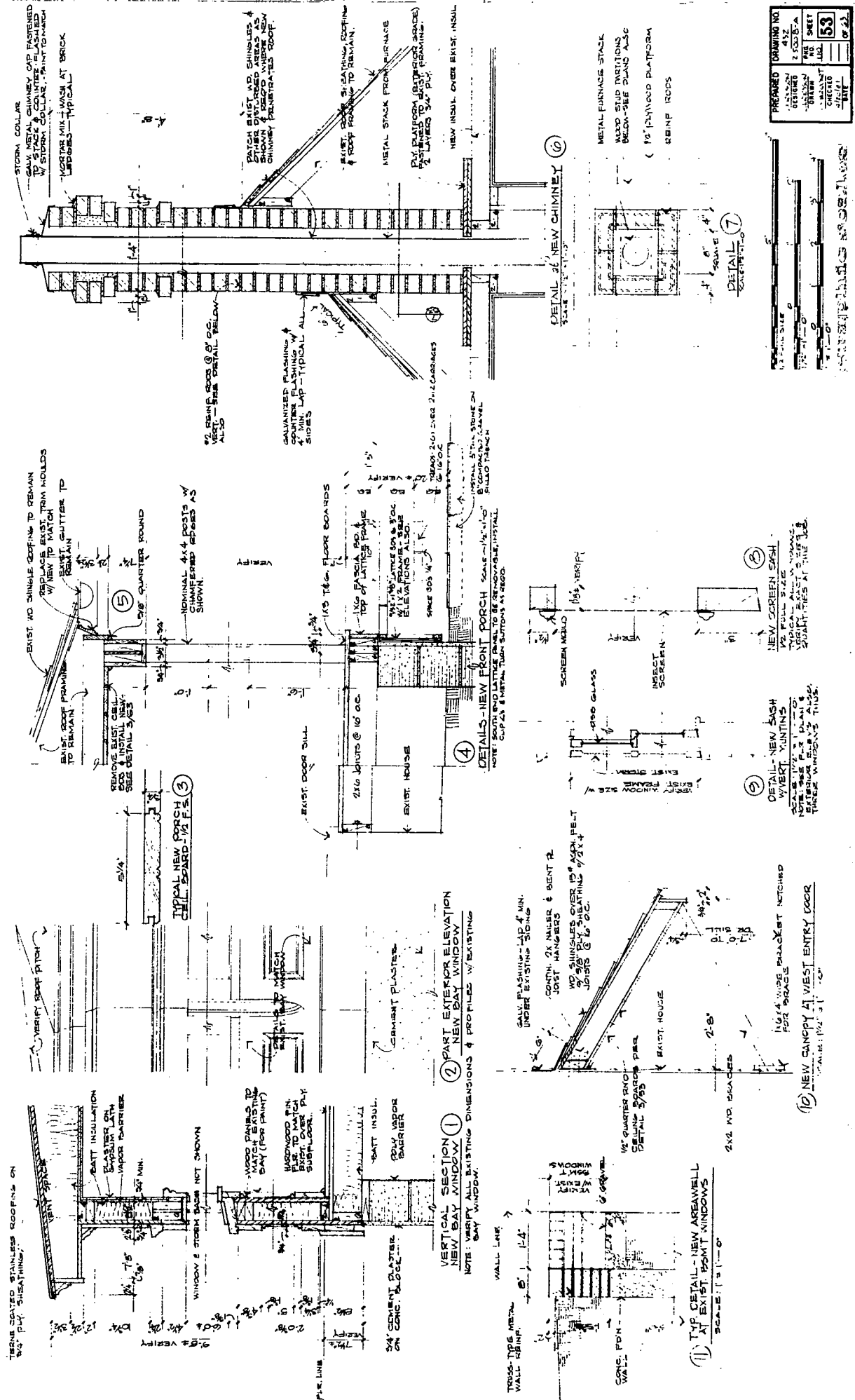
West Elevation Scale - 1/4" = 1'-0"

NOTE: ALL BRICK, OUTLETS & LIGHTS SHALL REMAIN - TYPICAL ALL ELEVATIONS.

PREPARED	DRAWING NO.	432
DESIGNED	DATE	2-25-35-A
CHECKED	NO.	51
DATE	DATE	07-22

1" = 1'-0"
 1/4" = 1'-0"
 1/8" = 1'-0"
 1/16" = 1'-0"

AM MICROFILM



STORM COLLAR
 GALV. METAL CHIMNEY CAP FASTENED TO STORM COLLAR. POINT TO WINDWARD SIDE.
 MORTAR MIX 1 PART AT BRICK LAYERS - TYPICAL

BRICK SHIMMERS & OTHER DIVIDED AREAS AS SHOWN & EXPOSED UNDER NEW CHIMNEY FLASHING-TIED ROOF.

RUST. ROOFING TO REMAIN.

METAL STACK FROM FURNACE

P.V. PLATFORM (BET. ROOF GRADE) FASTENED TO EXIST. BEAMING, & LAYERS 3/4" PLY.

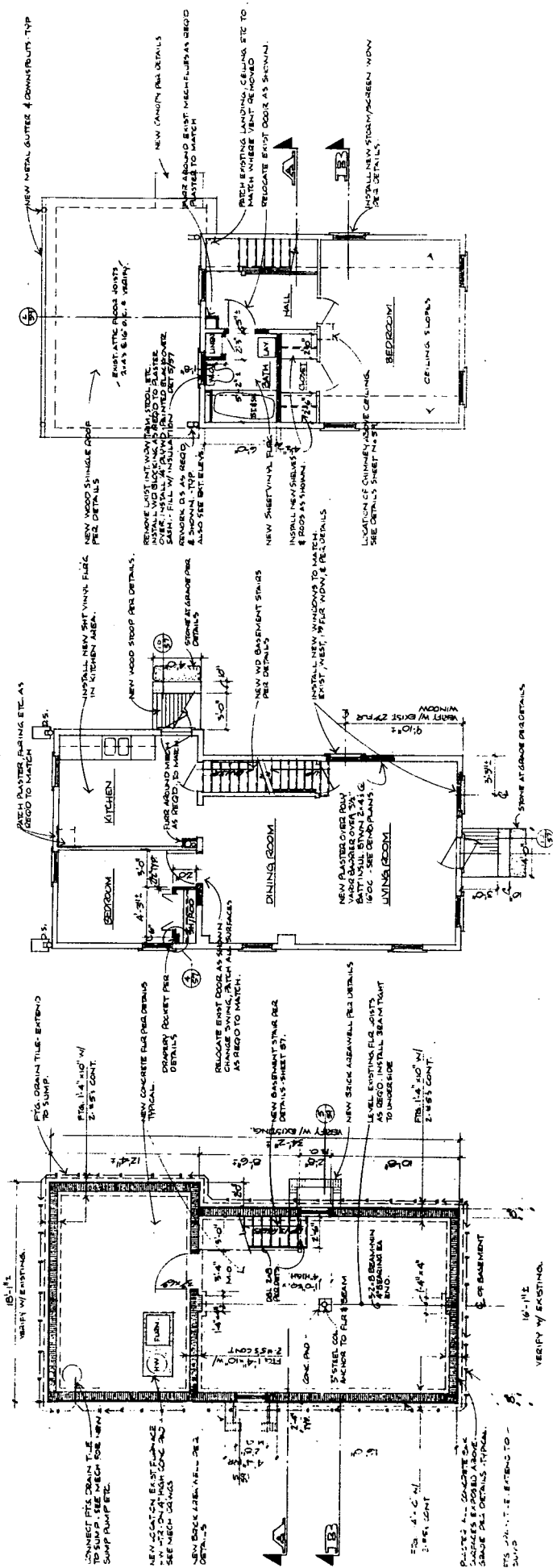
NEW INSUL. OVER EXIST. INSUL.

METAL FURNACE STACK
 W/ 300 STD. PARTITIONS
 BELOW-SEE PLANS A-3-C

1" 12" 12" WOOD PLATFORM
 SBINF ROOPS

PREPARED BY	DRAWING NO.
DESIGNED BY	412
CHECKED BY	2-0025-A
DATE	1-10-53
SCALE	AS SHOWN
SHEET NO.	53
TOTAL SHEETS	104

OH MICROFILM



Second Floor Plan Scale: 1/8" = 1'-0"

First Floor Plan Scale: 1/8" = 1'-0"

Basement Plan Scale: 1/8" = 1'-0"

GENERAL NOTES

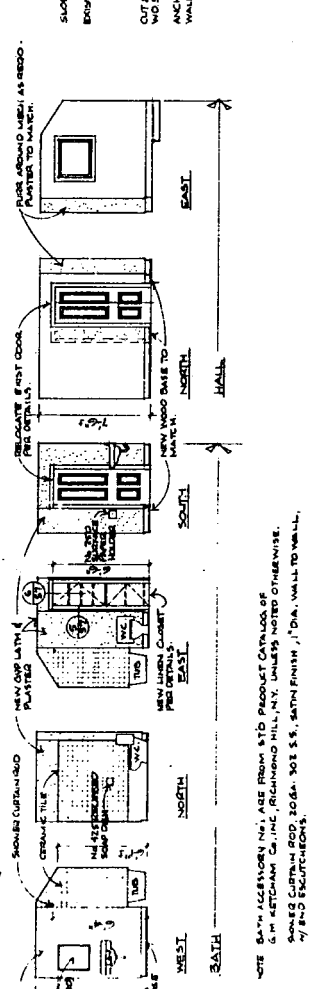
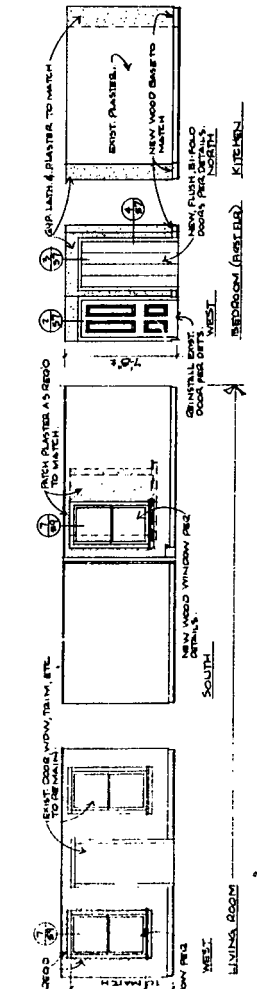
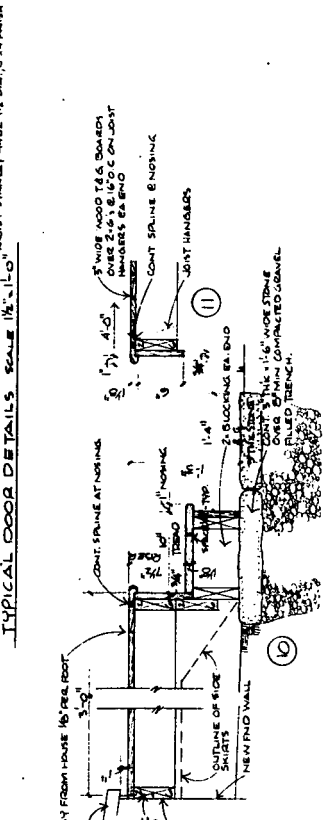
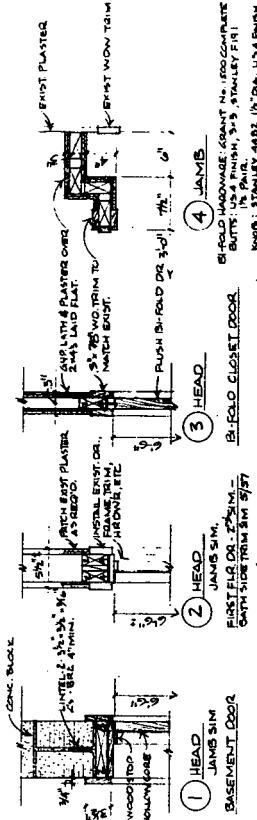
1. VERIFY ALL EXISTING DIMENSIONS & FINISHES, ETC. AT THE BUILDING - TYPICAL
2. EXISTING WALLS SHALL TO REMAIN & REPLACE WITH QUARTZ AT AREAS WHERE DETROGATED.
3. ALL NEW FINISHES SHALL BE MATCHED TO EXISTING FINISHES. ALL NEW FINISHES SHALL BE MATCHED TO EXISTING FINISHES.
4. VERIFY ALL INTERIOR SURFACES & AREAS WHERE DETROGATED BY CONSTRUCTION TO MATCH EXISTING FINISHES.



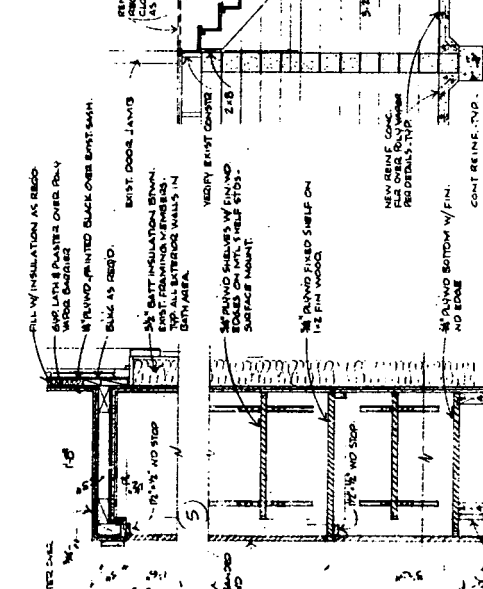
PREPARED BY: M. JAMES DESIGNED BY: M. JAMES DRAWN BY: M. JAMES CHECKED BY: M. JAMES DATE: 10/1/80	TITLE OF DRAWING: DAVID MACKAY HOUSE 1512 LOCATION: WITHIN PARK ADDRESS: POPULAR STREET CITY: DENVER, CO COUNTY: DENVER STATE: COLORADO	DRAWING NO.: 432 SHEET NO.: 55 TOTAL SHEETS: 55
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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
DENVER SERVICE CENTER



Interior Elevations SCALE 1/4" = 1'-0"



PREPARED	DRAWING NO.	452
DESIGNED	BY	STANLEY
CHECKED	DATE	1/15/57
APPROVED	BY	STANLEY
DATE		1/15/57

1/2" = 1'-0"	0'	1'	2'	3'
3/4" = 1'-0"	0'	1'	2'	3'
1" = 1'-0"	0'	1'	2'	3'
1 1/4" = 1'-0"	0'	1'	2'	3'

1/2" = 1'-0"	0'	1'	2'	3'
3/4" = 1'-0"	0'	1'	2'	3'
1" = 1'-0"	0'	1'	2'	3'
1 1/4" = 1'-0"	0'	1'	2'	3'

1/2" = 1'-0"	0'	1'	2'	3'
3/4" = 1'-0"	0'	1'	2'	3'
1" = 1'-0"	0'	1'	2'	3'
1 1/4" = 1'-0"	0'	1'	2'	3'

1/2" = 1'-0"	0'	1'	2'	3'
3/4" = 1'-0"	0'	1'	2'	3'
1" = 1'-0"	0'	1'	2'	3'
1 1/4" = 1'-0"	0'	1'	2'	3'

1/2" = 1'-0"	0'	1'	2'	3'
3/4" = 1'-0"	0'	1'	2'	3'
1" = 1'-0"	0'	1'	2'	3'
1 1/4" = 1'-0"	0'	1'	2'	3'

1/2" = 1'-0"	0'	1'	2'	3'
3/4" = 1'-0"	0'	1'	2'	3'
1" = 1'-0"	0'	1'	2'	3'
1 1/4" = 1'-0"	0'	1'	2'	3'

1/2" = 1'-0"	0'	1'	2'	3'
3/4" = 1'-0"	0'	1'	2'	3'
1" = 1'-0"	0'	1'	2'	3'
1 1/4" = 1'-0"	0'	1'	2'	3'

1/2" = 1'-0"	0'	1'	2'	3'
3/4" = 1'-0"	0'	1'	2'	3'
1" = 1'-0"	0'	1'	2'	3'
1 1/4" = 1'-0"	0'	1'	2'	3'

MICROFILM

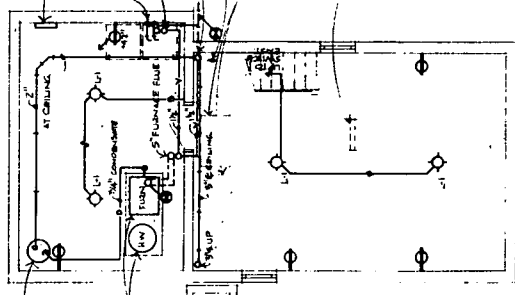
STANLEY

REMOVE EXISTING 2" DISCHARGE PIPE FROM BATH ROOM. REMOVE EXISTING 2" DISCHARGE PIPE FROM BATH ROOM. REMOVE EXISTING 2" DISCHARGE PIPE FROM BATH ROOM.

REMOVE EXISTING 1/2" WATER & HOT WATER VALVE. REMOVE EXISTING 1/2" WATER & HOT WATER VALVE. REMOVE EXISTING 1/2" WATER & HOT WATER VALVE.

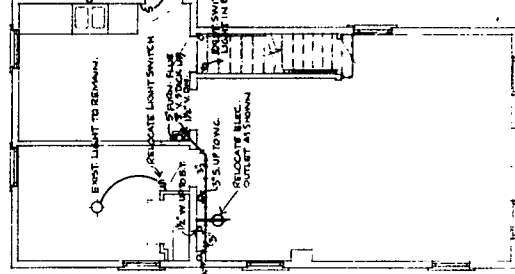
REMOVE EXISTING 1/2" WATER & HOT WATER VALVE. REMOVE EXISTING 1/2" WATER & HOT WATER VALVE. REMOVE EXISTING 1/2" WATER & HOT WATER VALVE.

REMOVE EXISTING 1/2" WATER & HOT WATER VALVE. REMOVE EXISTING 1/2" WATER & HOT WATER VALVE. REMOVE EXISTING 1/2" WATER & HOT WATER VALVE.



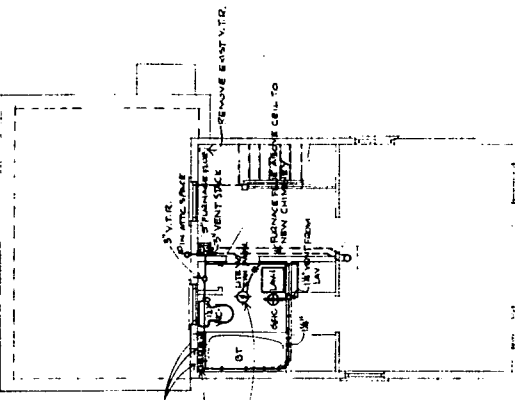
REMOVE EXISTING 2" DISCHARGE PIPE FROM BATH ROOM. REMOVE EXISTING 2" DISCHARGE PIPE FROM BATH ROOM. REMOVE EXISTING 2" DISCHARGE PIPE FROM BATH ROOM.

REMOVE EXISTING 2" DISCHARGE PIPE FROM BATH ROOM. REMOVE EXISTING 2" DISCHARGE PIPE FROM BATH ROOM. REMOVE EXISTING 2" DISCHARGE PIPE FROM BATH ROOM.



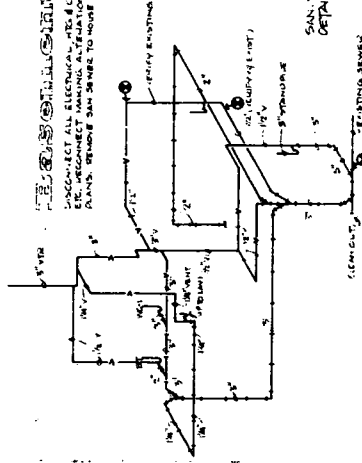
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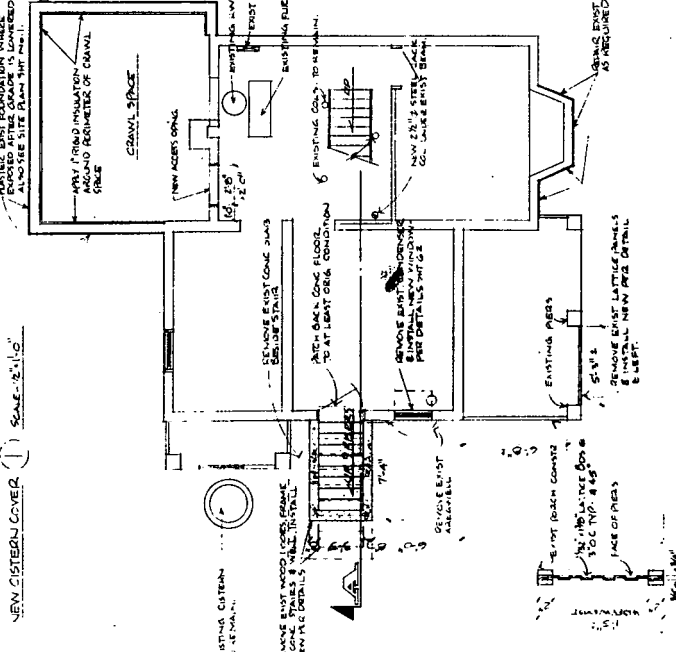
PREPARED	DRAWING NO.
DESIGNED	SCALE
CHECKED	SHEET
DATE	NO.
	OF 22

ON MICROFILM

5.11.2.16.1

NEW BRICKS TO BE THREADED
WOOD-TYPED PAINTED COLOR AS
SELECTED

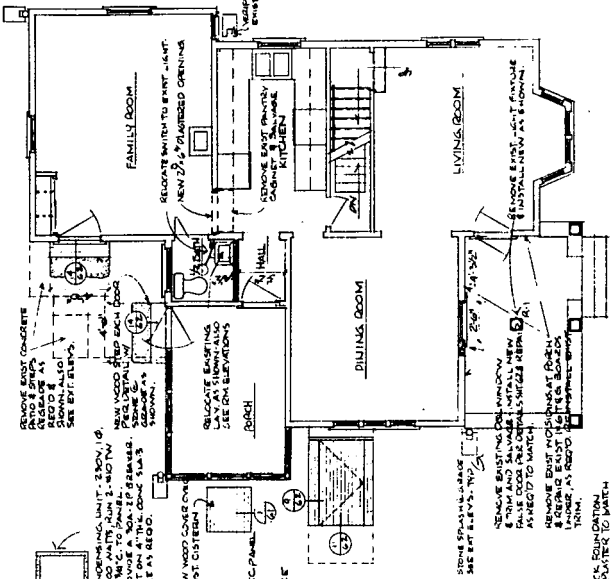
NEW CISTERN COVER (1) SCALE 1/4"=1'-0"



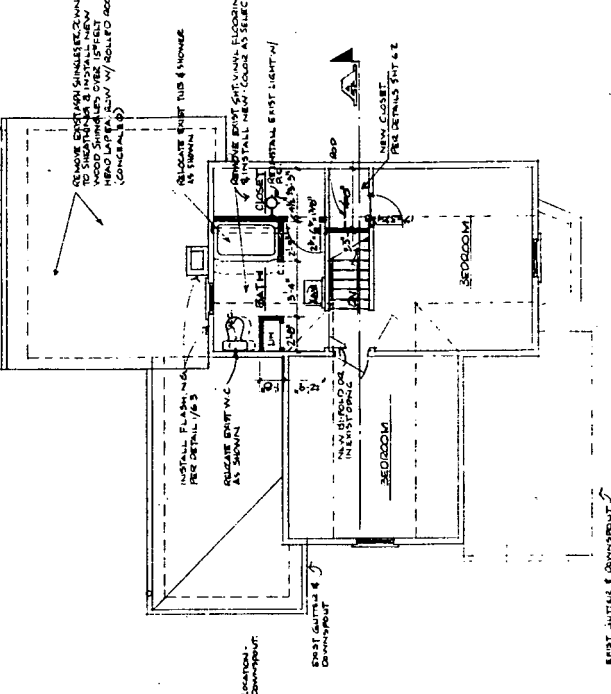
Basement Floor Plan SCALE 1/4"=1'-0"
NOTE: EXISTING ALL WALLS, NEW BRICKS TO BE THREADED WOOD-TYPED PAINTED COLOR AS SELECTED.

GENERAL NOTES

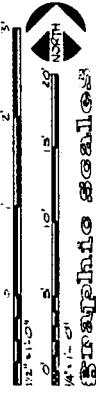
1. VERIFY ALL EXISTING DIMENSIONS & FEATURES ETC. AT THE BUILDING TYPICAL
2. BRICKWORK ALL EXISTING BUT QUALITY AS BEST SHALL BE REPLACED WITH NEW AT AREAS WHERE BRICKING IS DETERIORATED, LOOSE OR UNSOUND - TYPICAL
3. ALL MATERIALS TO BE REMOVED & SALVAGED SHALL REMAIN THE PROPERTY OF THE OWNER - TYPICAL
4. EXAMINE ALL EXISTING CEMENT PLASTER ON FOUNDATION WALLS AND BEAMS OR REPLACE WITH NEW TO MATCH BY AREA, WHERE PLASTER IS DETERIORATED, LOOSE OR MISSING - TYPICAL
5. TRIP PLANT FROM ALL FLOORS & EXTERIOR WOOD & METAL SURFACES TO REMAIN - TYPICAL - REMOVALS AS SELECTED
6. PAINT ALL NEW WORK EXCEPT MASONRY, CEMENT PLASTER & TRIP PLANTS IN UNFINISHED ROOMS & HALLS & PAINT 1/2 BATH & SECOND FLOOR - WITH COMPARE.



First Floor Plan SCALE 1/4"=1'-0"
NOTE: EXISTING ALL WALLS, NEW BRICKS TO BE THREADED WOOD-TYPED PAINTED COLOR AS SELECTED.

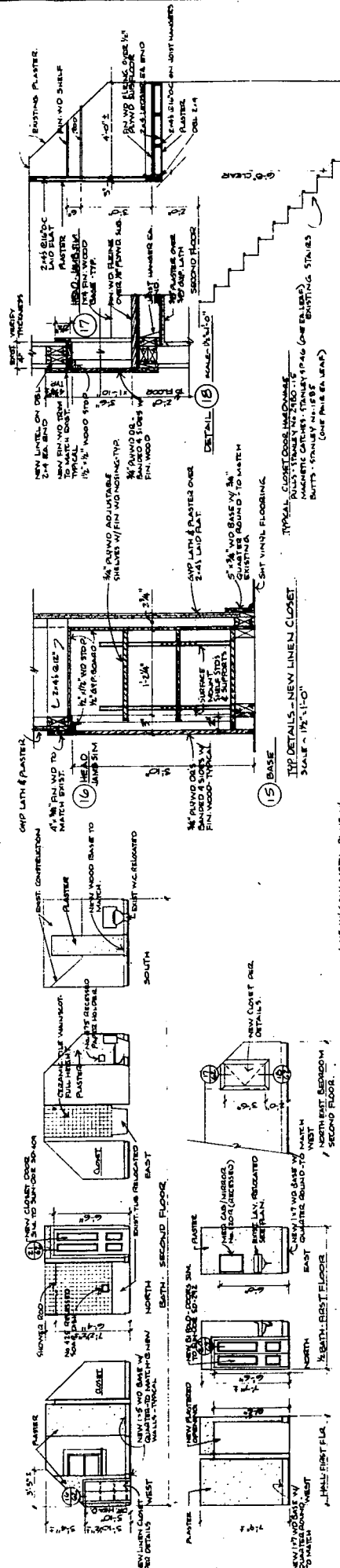


Second Floor Plan SCALE 1/4"=1'-0"
NOTE: EXISTING ALL WALLS, NEW BRICKS TO BE THREADED WOOD-TYPED PAINTED COLOR AS SELECTED.



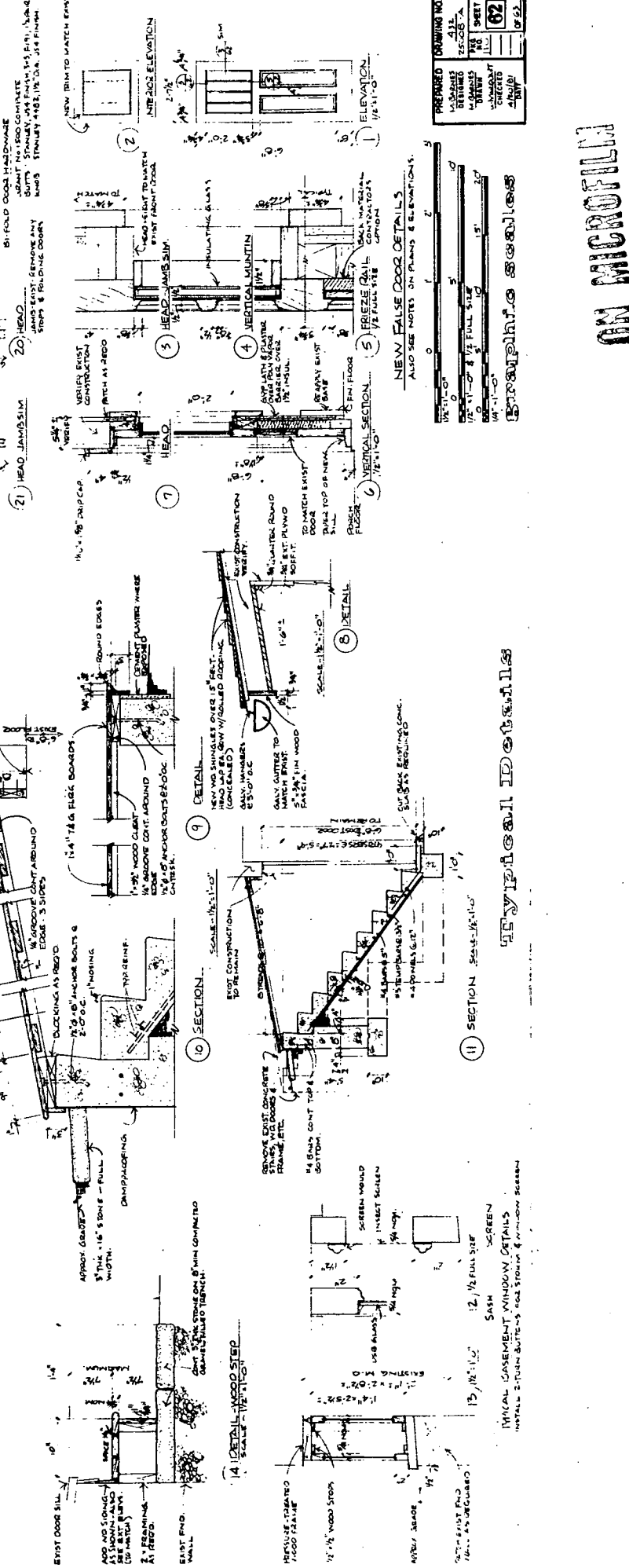
PREPARED DRAWN CHECKED DATE	TITLE OF DRAWING WILLIAM WRIGHT HOUSE 1619 LOCATOR WITHIN PARK POLAR STREET NAME OF PARK HERBERT H. NATIONAL HISTORIC SITE MIDWEST CEDAR ILLINOIS SHEET NO. 61 DATE
REVIEWED BY APPROVED BY DATE	UNITED STATES NATIONAL PARK SERVICE CENTER SERVICE CENTER

ON MICROFILM



Typical Interior Elevations

SCALE - 1/4" = 1'-0"
 NOTE: GATE ACCESSORY NOT ABE FROM STD PRODUCT CATALOG OF
 GATE NATIONAL CO. INC., RICHMOND HILL, N.Y.

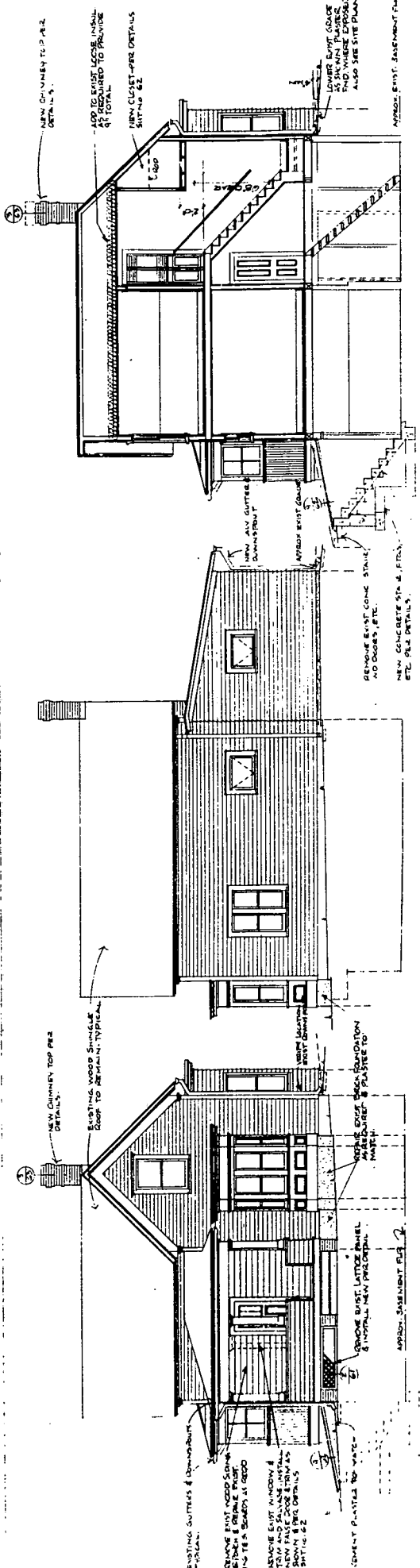


PROJECT NO.	432
DATE	12-22-54
SHEET	62
TOTAL SHEETS	62
DATE	12-22-54
BY	

ON MICROFILM

Typical Details

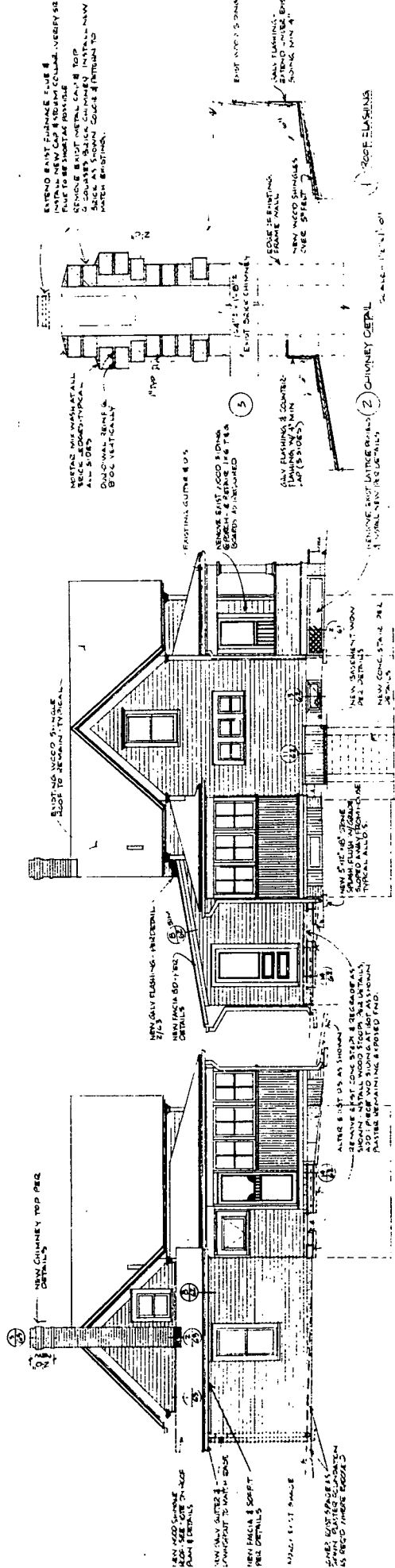
Typical Details



Section A-A SCALE - 1/4" = 1'-0"

North Elevation SCALE - 1/4" = 1'-0"

East Elevation SCALE - 1/4" = 1'-0"

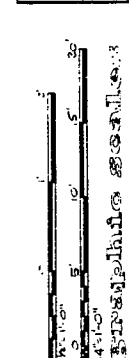


Section A-A SCALE - 1/4" = 1'-0"

South Elevation SCALE - 1/4" = 1'-0"

West Elevation SCALE - 1/4" = 1'-0"

PREPARED	DRAWING NO.	442
DESIGNED	SCALE	1/4" = 1'-0"
DRAWN	SHEET	63
CHECKED	DATE	
APPROVED		



ON MICROFILM

As the nation's principal conservation agency, the Department of the Interior has basic responsibilities to protect and conserve our land and water, energy and minerals, fish and wildlife, parks and recreation areas, and to ensure the wise use of all these resources. The department also has major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.

Publication services were provided by the graphics and editorial staffs of the Denver Service Center. NPS 1934