WOLFE
HOUSE & BUILDING MOVERS

# Arthur Miller House Relocation

Ann Arbor, MI

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# SCOPE OF WORK:

1. **WOLFE HOUSE & BUILDING MOVERS WILL:**

    a. **Summary:**
    **Lift and Relocate the Arthur Miller House; a 34'x62' (overall size) Frame Building located at 439 S. Division St, Ann Arbor, MI, consisting of:**
        i. **The 34'x62' two and a half story frame house**
        ii. **Two brick fireplaces**
        iii. **The wrap-around front porch and the small side porch**

    b. **Provide Pre-Move Services:**
        i. **Survey the Building, move route and the relocation site. Provide advice to the Customer on the best means and methods of relocation, provide input on the design of and method of placing the building onto the new permanent foundation, etc.**

    c. **Move the Building:**
        i. **To move the building according to Wolfe House & Building Movers normal means and methods to a new location approximately two blocks North of the existing location; to the southeast corner of E. Liberty St & S. Division St.**
        ii. **Excavate around the Building and cut holes through the foundation as needed to install the supporting steel framework and the lifting and moving equipment.**
        iii. **Install a system of Main Beams, Cross Beams and Needle Beams in order to support the external and internal load-bearing points, fireplaces, and porches.**
        iv. **Lift the Building with a Unified Hydraulic Jacking System. With the system all hydraulic jacks extend at the same rate, regardless of load, for a uniform lift.**

v. Backfill the basement area under the lifted Building up to grade.
vi. Move the Building with the Buckingham Power Dolly System. The Building will be entirely self-propelled, powered by a Buckingham Hydraulic Power Unit, connected to all of the Power and Coaster Dollies. The system offers synchronized hydraulic drive, lifting, steering and braking capabilities and is operated by wireless radio remote control.

d. Place the Building at the Relocation Site:
   i. Drive the house up alongside the new foundation.
   ii. Infill the new foundation with cribbing and beams as necessary to drive the house sideways over the new foundation.
   iii. Laser-align the Building into final position with the new foundation.
   iv. Lift or Lower the building with the Unified Jacking System and set at the new permanent elevation.
   v. Support the Building at the permanent elevation for a time while the new foundation walls are built up and installed by others. (Section 2G.)

e. After the Building is supported on the new foundation:
   i. To lower and remove the supporting Steel framework.
   ii. To remove all lifting and moving equipment from the site.

2. TO BE DONE BY OTHERS:
    a. Disconnect all utilities coming into the building ahead of time, including cutting and capping the gas line.
    b. Clean out the basement areas ahead of time; HVAC equipment, pipes, plumbing and ductwork below the floor joists should be removed.
    c. Remove the basement entry ahead of time.
    d. Remove the porch skirting and steps.
    e. Excavate the blacktop parking lot out at least 15' from the house.
    f. Provide a clear move route, including:
        i. Excavation with grades not to exceed 1" per foot slope.
        ii. Tree trimming or removal as needed.
        iii. Utility lifting/lowering or temporary relocation as needed
        iv. Traffic control.
    g. Install the new basement foundation up to grade ahead of time.
    h. Provide a 50' clear lot on one side of the new foundation for the house to be moved in alongside the foundation and then be driven sideways over the new foundation.
    i. Once the house is set in place at the new permanent location/elevation, to build the foundation up between the supporting steel and grout it tight to the sill plates and fireplaces and install the center posts and porch posts as necessary.

3. INSURANCE
    a. To provide General Liability Insurance limits of equal to or exceeding $1,000,000 per occurrence/$2,000,000 aggregate.
    b. To provide Business Auto Insurance limits of equal to or exceeding $1,000,000.
    c. To provide Riggers Liability Insurance limits of up to $1,000,000 per occurrence while the Building is under the care, custody, and control of Wolfe House Movers. Prior to project start, the Owner shall provide an ACV appraisal of the Building and documentation of the estimated insurable costs that may be incurred by the Owner as a part of this project.
    d. To provide Excess/Umbrella Insurance with minimum limits of $2,000,000 per occurrence.

4. BUDGET NUMBER
    a. To provide a Scope of Work as described herein for a budget number of $80,000.00 (Eighty Thousand Dollars.)
    b. Provision for certified payroll at the current published construction prevailing wage rate provided by the Michigan Department of Labor for Washtenaw County is included in our number.
    c. The budget number reflects our normal moving means and methods, with axle loads in the 20-22.5 ton range. In the event that Department of Transportation Engineers impose lower weight limits on the road surface, we will work with them to come up with a solution. If it involves a significant change from our normal means and methods there will be an additional cost.
    d. It is expected that the project will be let to bid; a final fixed-fee proposal will be prepared at that time, taking into consideration the bid specs and any changes to the Scope of Work herein.

5. TIMELINE
    a. The move of the building will take approximately 10 days and then approximately 2 days to remove the lifting equipment after the foundation is built up. The actual move of the building on the road will take only one day.

6. ATTACHMENTS
    a. Move Route: an overhead view of the proposed move route.

    b. A selection of Job Profiles of other Historic Relocation Projects
        i. The Rees House, Chicago, IL. This project with Thornton Tomasetti, Architect and Bulley & Andrews, Contractor, was completed in January of 2015. Wolfe successfully relocated the 25'x100', 3-Story 1087-ton masonry Building on historic Prairie Avenue. The project required substantial engineering of all aspects of the lift, move and relocation route. It included an extremely tight 90-degree turn, and a hydraulic side-shift of the building to within 18" of an adjacent structure.

ii. **Sturgis Railroad Depot --June 2014**
**A 40'x96' 304 Ton Brick and Stone Railroad Depot was moved nearly a mile through the downtown district. This project demonstrates the benefits of the Buckingham SmartSteer Power Dolly System.**

iii. **Alexander Hamilton Grange – July 2008**
**A very high profile move of the historic building in Manhattan, NY for the National Park Service.**

iv. **Carter House – May 2013**
**A frame house moved down the road 9 miles in Owensburg, KY.**

c. **Certificate of Insurance demonstrating the coverage in Section 3.**