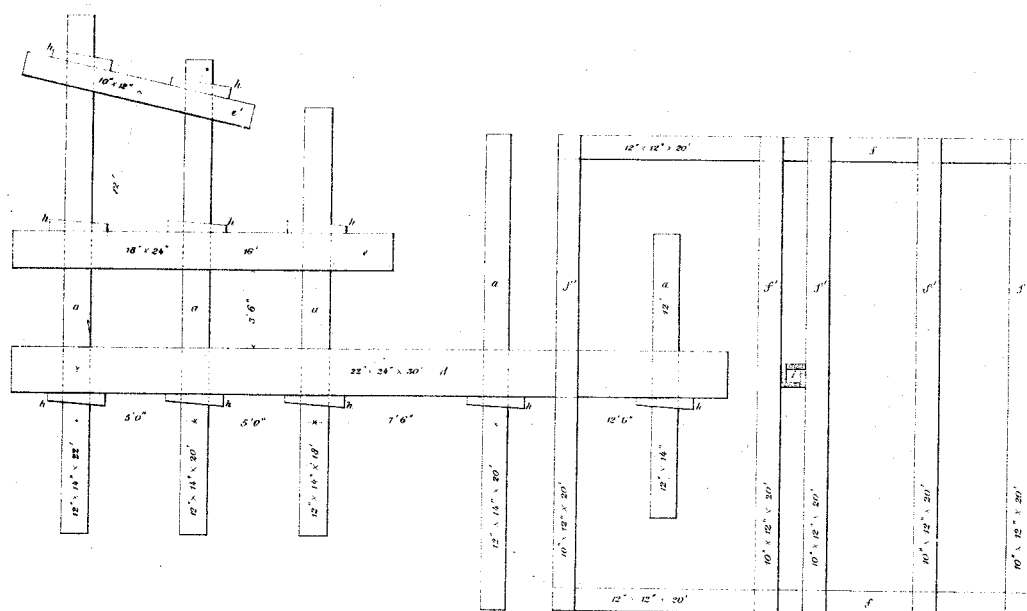
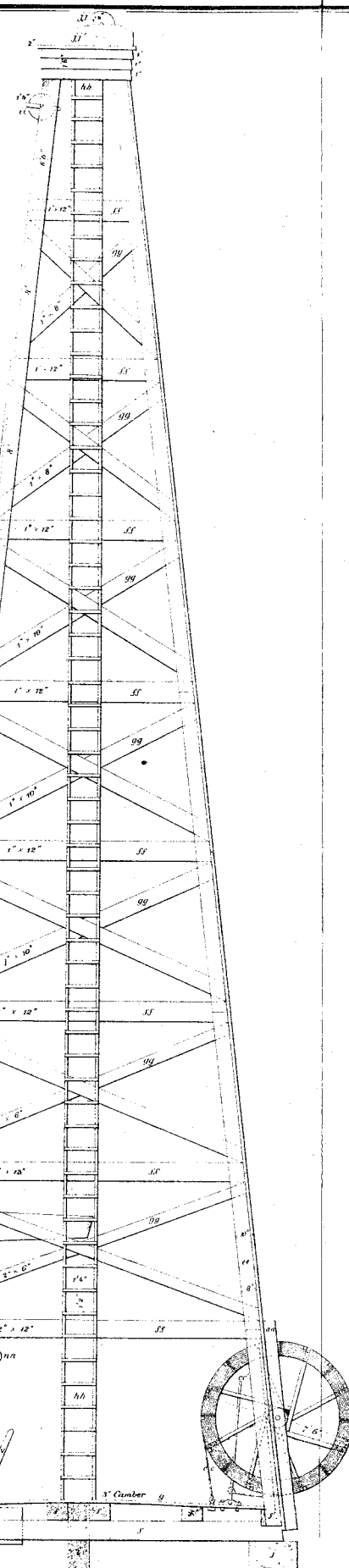


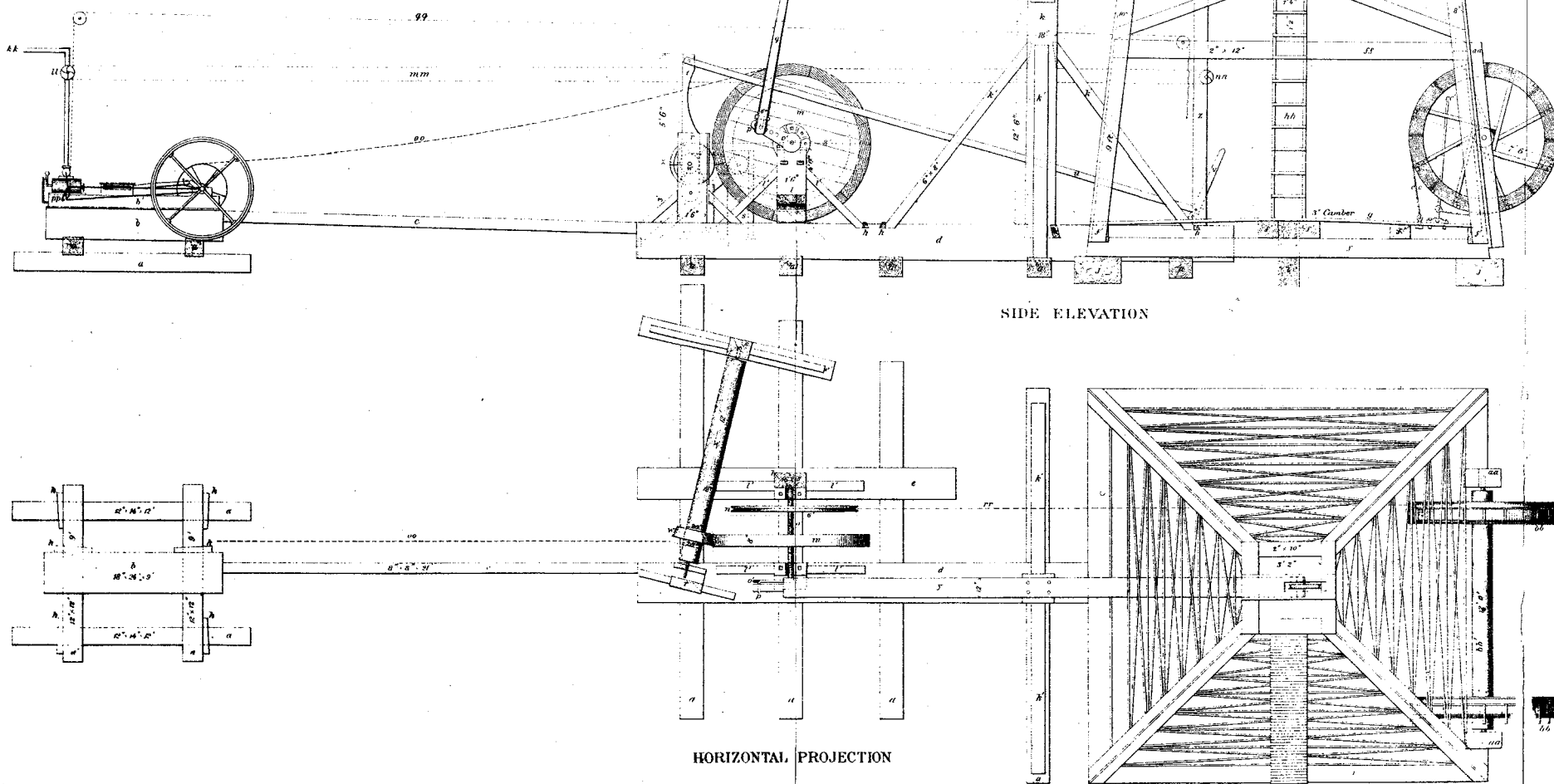
A



FOUNDATION TIMBERS



SIDE ELEVATION



HORIZONTAL PROJECTION

TABLE OF REFERENCES.

FOUNDATION.

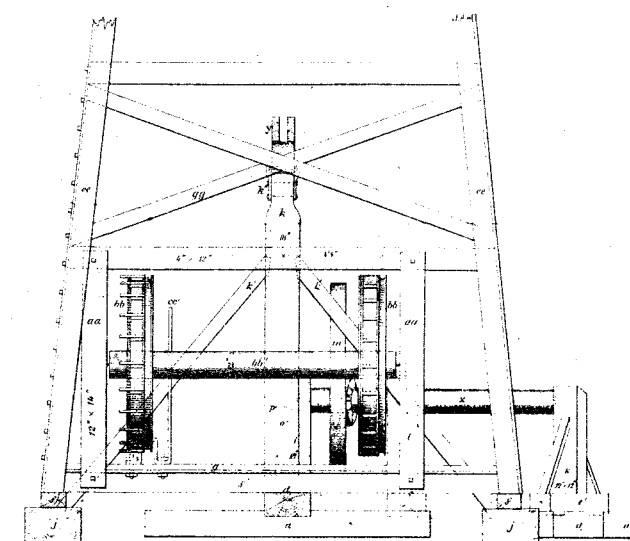
- | | | | |
|----|--------------------------------------|----|--|
| a | Mud-Sills | e' | Sub sill for jack post of sand-pump reel |
| a' | Cross Sills for Engine-Block | f | Derrick Sills |
| b | Engine-Block | f' | Derrick Floor-Sills |
| b' | Engine | g | Derrick Floor |
| c | Engine Block Brace | h | Keys or Wedges |
| d | Main-Sill | i | Conductor |
| e | Sub-Sill for jack post of band-wheel | j | Corner Stones or Blocks |

SUPERSTRUCTURE

- | | | | |
|-----|---------------------------------|-----|-----------------------------------|
| k | Sauman-Post | m | Friction Pulley of Sand-Pump Reel |
| k' | " " " Braces | n | Shaft of Sand-Pump Reel |
| k'' | " " " Irons | y | Walking Beam |
| l | Band-Wheel Jack-Post | z | Hoodache Post |
| l' | " " " " " Braces | aa | Bull Wheel Posts |
| m | Band-Wheel | bb | Bull Wheel's |
| n | " " " Bull-rope Pulley | cc | " " " Shaft |
| o | " " " Shaft | cc' | " " " Brake Band |
| o' | " " " " " " " | oo' | " " " Lever |
| p | " " " Wrist-Pin | ee | Derrick Stiles |
| q | Pitman | ff | " " " Glits |
| r | Knuckle-Post for Sand-Pump Reel | gg | " " " Braces |
| s | Jack Post | hh | " " " Ladder |
| t | Upright Lever | ii | " " " Sand-Pump Pulley |
| u | Connecting Bar | jj | " " " Crown-Pulley |
| v | Hand-Lever in Derrick | jj' | " " " Block |

GEARING, &c.

- | | | | |
|----|--------------------------------------|----|--|
| kk | Steam Pipe connecting with Boiler | pp | Reverse Link of Engine |
| ll | Throttle Valve | qq | Cord operating Reverse-Link from the Derrick |
| mm | "Telegraph," cord operating throttle | | |
| nn | Pulley in Derrick | rr | Place of the Bull-Wheel Rope |
| oo | Driving-Bell | | |



END ELEVATION

MECHANICAL DRAWING
OF A COMPLETE
OIL WELL DERRICK
OR
CARPENTERS RIG

SHOWING IN DETAIL EVERY PART OF ABOVE-GROUND
MACHINERY FOR DRILLING AN OIL WELL AND GIVING THE
DIMENSIONS OF THE MATERIALS REQUIRED IN ITS CONSTRUCTION

To illustrate Report of
H. A. GORDON
INSPECTING ENGINEER