

STANDARD BARRICADE

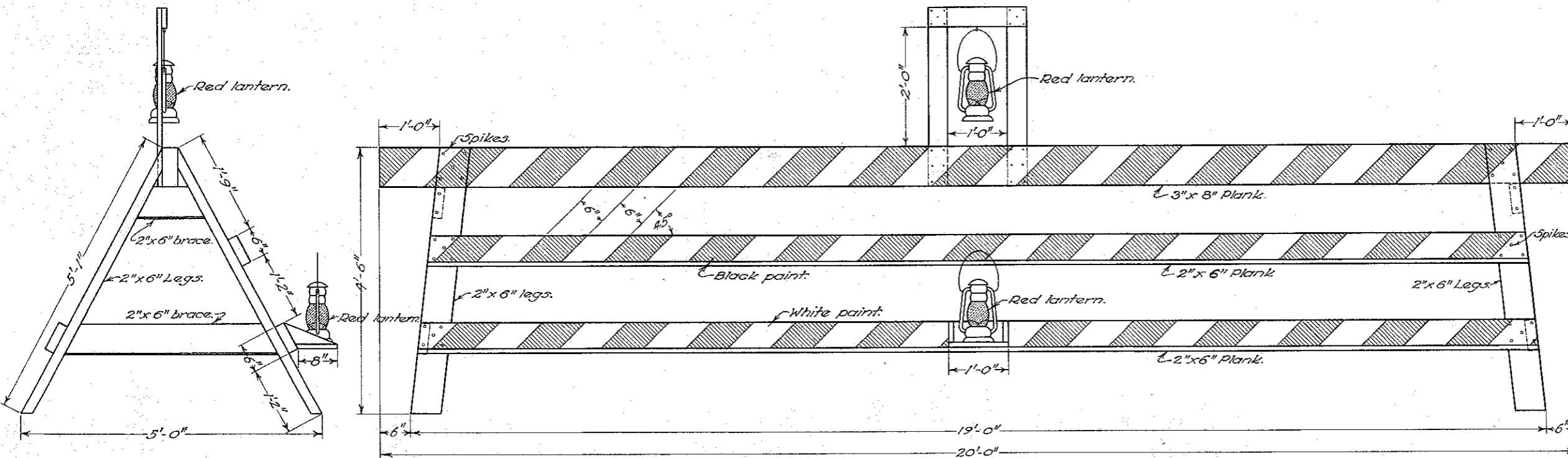
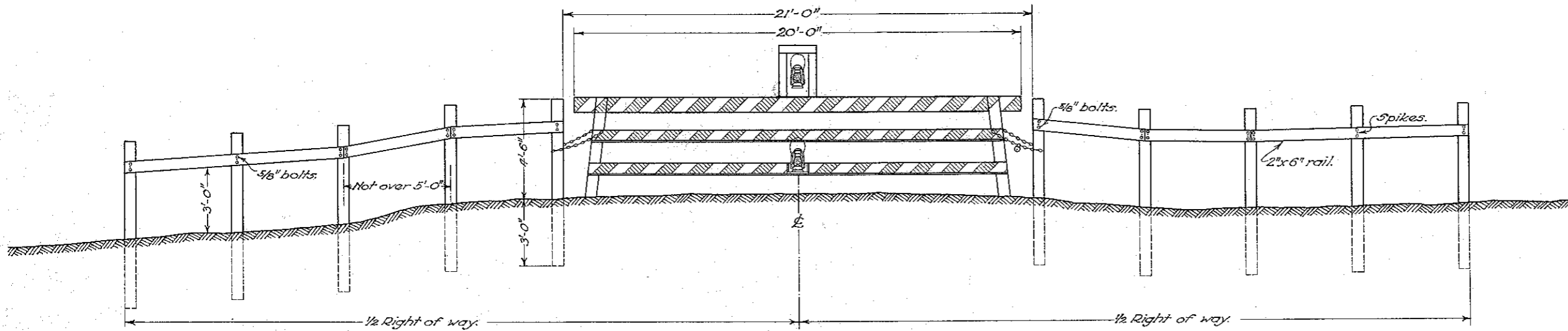
NOTES

GATE:
 Movable barricade or gate to be constructed according to the details shown herewith and shall be painted with alternate 6" black and white stripes on a 45° angle.
 Gate to be well spiked, using spikes long enough to clinch.

POSTS:
 Posts to have a minimum diameter of 6" on top.

RAILS:
 Rails to be bolted to posts with two 5/8" bolts and threads battered after nuts are set.

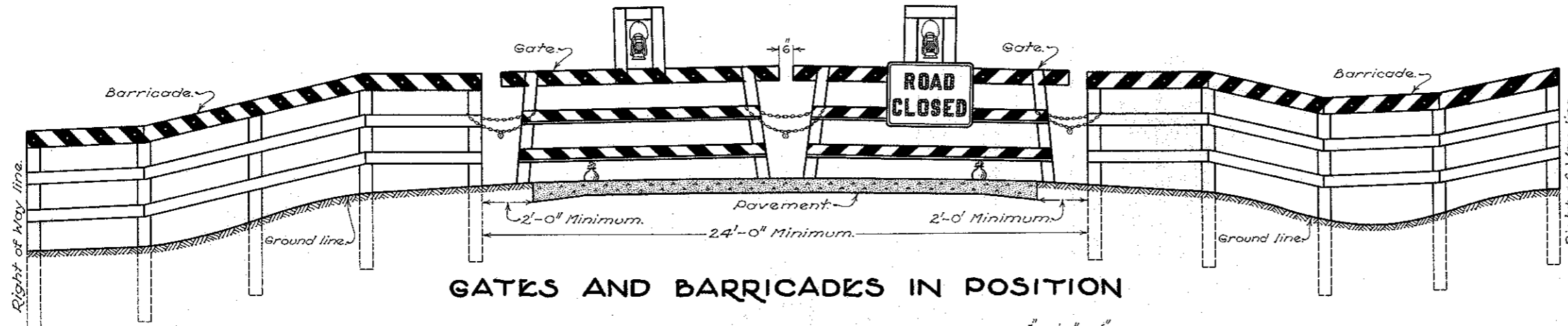
CHAIN:
 Gate shall be chained at one end by permanently stapling to the adjacent post a loop which has been welded prior to installation. At other end, gate shall be fastened to adjacent post with chain and padlock.
 Chain to be welded link 5/16" stock.



DETAIL OF GATE

BUREAU OF LOCATION & DESIGN
 OHIO
 DEPARTMENT OF HIGHWAYS
STANDARD BARRICADE
 STANDARD CONSTRUCTION DRAWING
 G-7.07
 APPROVED *H. K. R.* CHIEF ENGINEER
 OCT. 1933

STANDARD BARRICADES AND GATES



GATES AND BARRICADES IN POSITION

NOTES

LUMBER used in the construction of the gates and barricades shall be No. 1 common yellow pine or No. 1 common Douglas Fir, surfaced on four sides standard, in accordance with the requirements of Sec. M-8.1 of the General Specifications.

GATES—The movable gates shall be constructed according to the details shown and shall be painted with alternate 6" black and white stripes on a 45° angle. One gate shall be erected for each traffic lane. The gates shall be well spiked, using spikes long enough to clinch.

BARRICADES shall be constructed according to the details shown. The top rail shall be painted on both sides with alternate 6" black and white stripes on a 45° angle sloping towards the roadway. The two lower rails and posts shall be painted white on both sides.

The barricades shall have an opening of a minimum width of 24 feet. For pavement widths greater than 20 feet, the minimum widths of the barricade openings shall be the pavement width plus 4 feet. The barricades shall remain in place following the re-opening of the road if better work is not completed.

POSTS shall be 6"x6" sawed to comply with Sec. M-8.6 or round posts 6" minimum to 8" maximum top diameter and 7" minimum to 10" maximum bottom diameter and otherwise comply with Sec. M-8.5 of the General Specifications.

RAILS of the barricade shall be bolted to the posts with 3/8" bolts.

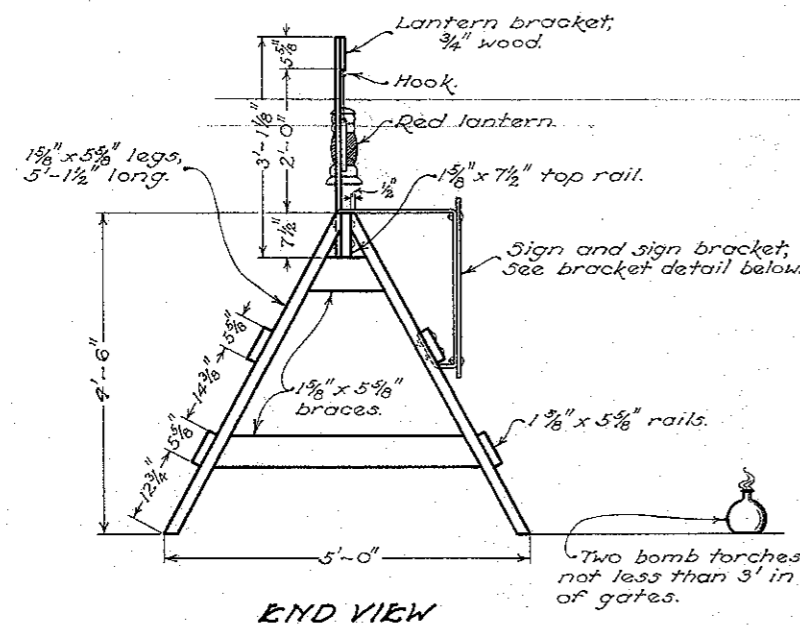
CHAINS—Gates shall be chained and padlocked to one another and to adjacent posts of the barricades. Chains shall be of 3/8" stock with welded links.

REFLECTORS—The top rail of the barricades and movable gates shall be reflectorized with red reflector buttons 3/4" minimum diameter, placed in the black stripes. When traffic is maintained, the top rails of the barricades shall be reflectorized on both sides. To install the buttons, drill holes into the top rail slightly less in diameter than that of the reflector housing. The button may be driven into the rail by placing a pipe over the reflector in such a manner that it will rest on the housing.

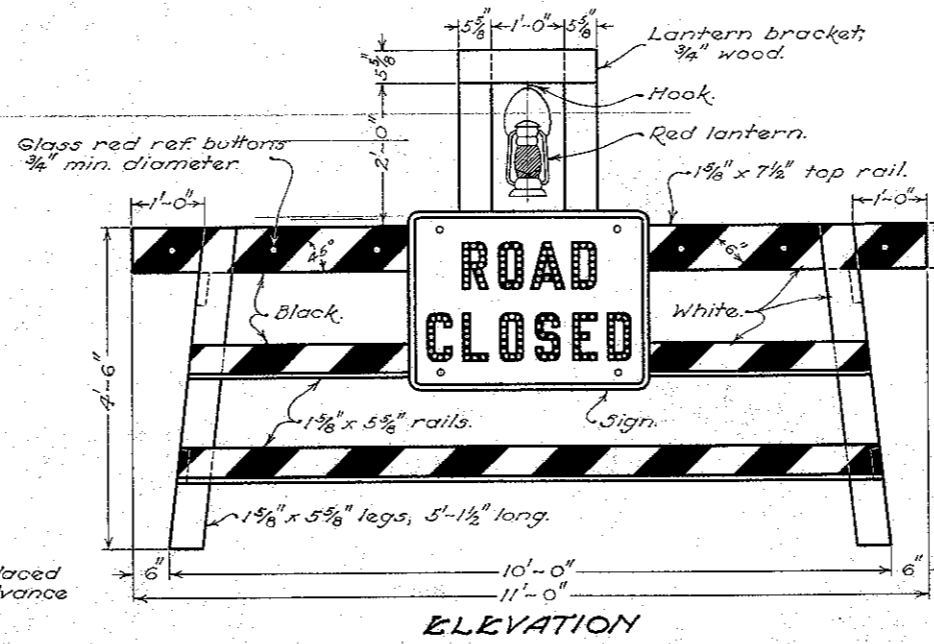
When traffic is maintained through the construction section, three glass crystal buttons 3/4" in diameter shall be mounted as shown on each side of the two posts adjacent to the traveled roadway.

SIGNS—Upon the erection of the gates and barricades according to the above standards, the Division Traffic Engineer shall furnish ROAD CLOSED sign, size 40"x30", which shall be mounted on the gate as shown. When three gates are used for closing 3-lane roads, the sign shall be mounted on the middle gate facing traffic approaching the closed section.

Where traffic is maintained a ROAD CONSTRUCTION TRAFFIC MAINTAINED sign, size 40"x24", will be furnished for mounting on the barricade at the right-hand side of the roadway adjacent to the roadway facing traffic approaching the construction section. An END OF CONSTRUCTION sign, size 40"x20", shall be mounted on the back of the barricade at the right-hand side of the road facing traffic leaving the construction section.

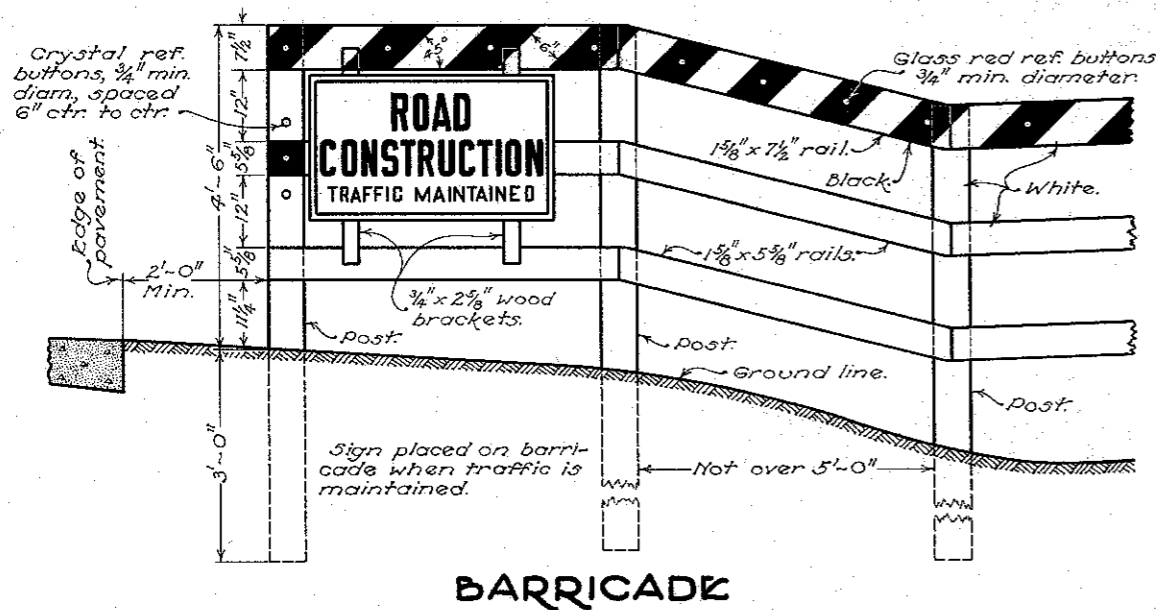


END VIEW

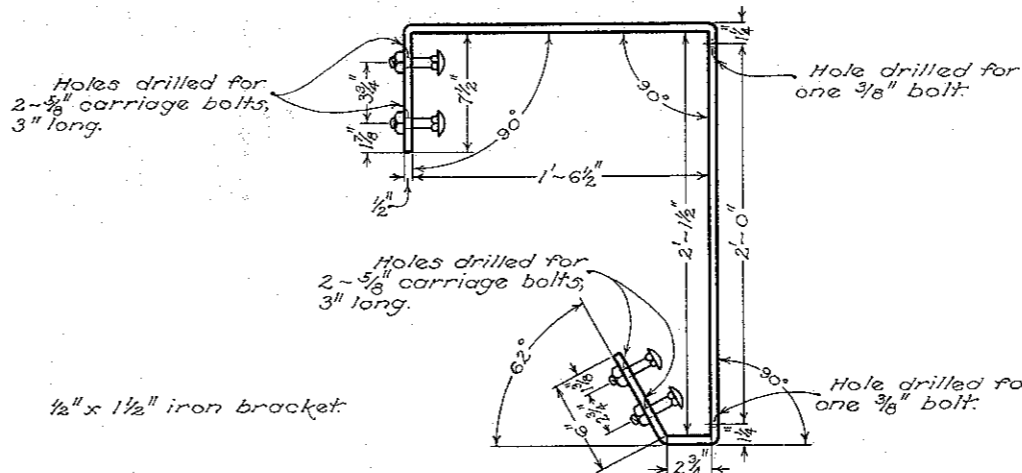


GATE

ELEVATION



BARRICADE



Two brackets spaced 28 inches apart in the center of the gate and bolted to top and center rails.

SIGN BRACKET

BUREAU OF LOCATION & RIGHT OF WAY
OHIO DEPARTMENT OF HIGHWAYS

**BARRICADES
AND GATES**

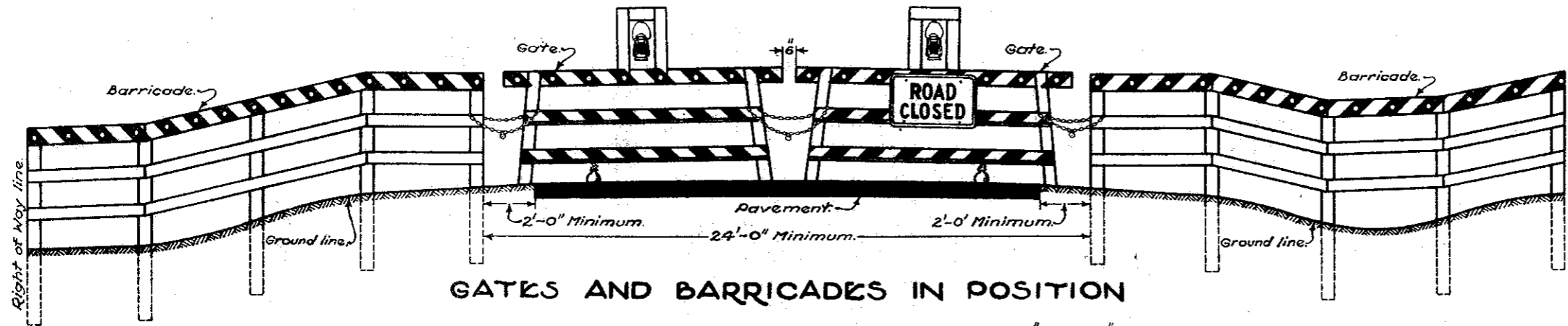
STANDARD
CONSTRUCTION
DRAWING

G-7.07

APPROVED *M.D.S.* CHIEF ENGINEER

DATE:
10-1933
6-1-42

STANDARD BARRICADES AND GATES



GATES AND BARRICADES IN POSITION

NOTES

LUMBER used in the construction of the gates and barricades shall be No. 1 common yellow pine or No. 1 common Douglas Fir, surfaced on four sides standard, in accordance with the requirements of the Specifications.

GATES—The movable gates shall be constructed according to the details shown and shall be painted with alternate 6" black and white stripes on a 45° angle. One gate shall be erected for each traffic lane. The gates shall be well spiked, using spikes long enough to clinch.

BARRICADES shall be constructed according to the details shown. The top rail shall be painted on both sides with alternate 6" black and white stripes on a 45° angle sloping toward the roadway. The two lower rails and posts shall be painted white on both sides.

The barricades shall have an opening of a minimum width of 24 feet. For pavement widths greater than 20 feet the minimum widths of the barricade openings shall be the pavement width plus 4 feet. The barricades shall remain in place following the re-opening of the road if barrier other work is not completed.

POSTS shall be 6" x 6" sawed or round posts and shall conform to the Specifications for Guard Rail Posts.

RAILS of the barricade shall be bolted to the posts with 3/8" bolts.

CHAINS—Gates shall be chained and padlocked to one another and to adjacent posts of the barricades. Chains shall be of 3/8" stock with welded links.

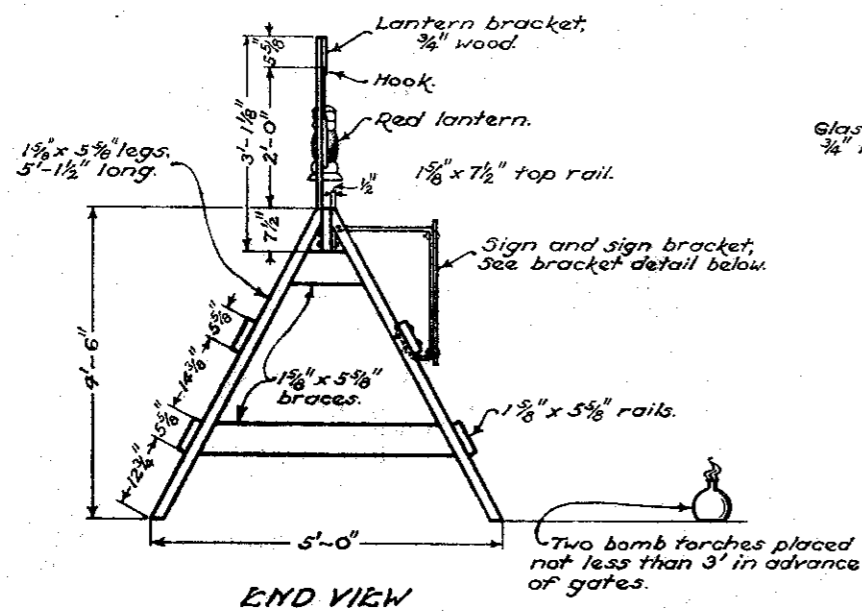
REFLECTORS—The top rail of the barricades and movable gates shall be reflectorized with red reflector buttons 3/4" minimum diameter, placed in the black stripes. When traffic is maintained, the top rails of the barricades shall be reflectorized on both sides. To install the buttons, drill holes into the top railing slightly less in diameter than that of the reflector housing. The button may be driven into the rail by placing a pipe over the reflector in such a manner that it will rest on the housing.

When traffic is maintained through the construction section, three glass crystal buttons 3/4" in diameter shall be mounted as shown on each side of the two posts adjacent to the traveled roadway.

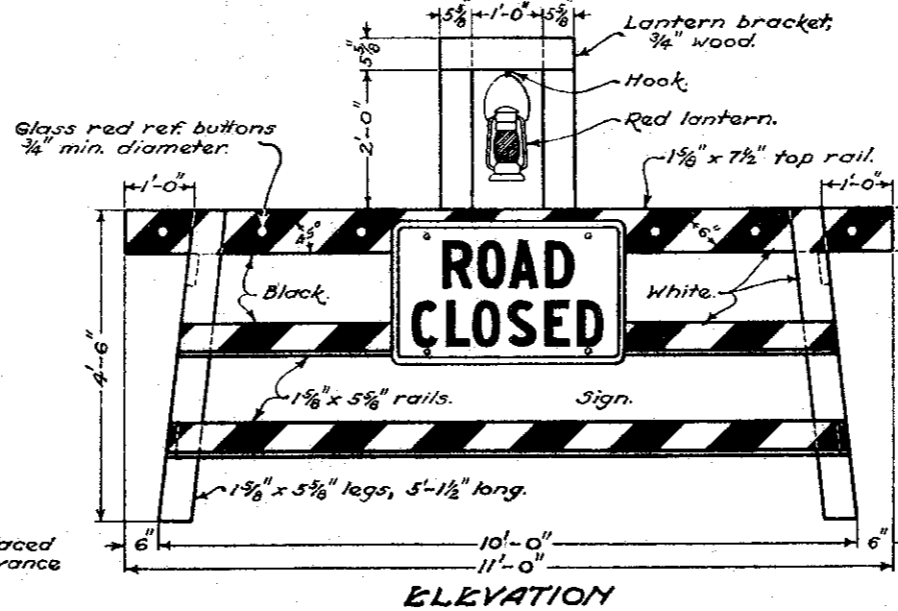
SIGNS—Upon the erection of the gates and barricades according to the above standards, the Division Traffic Engineer shall furnish ROAD CLOSED sign, size 40" x 24", which shall be mounted on the gate as shown. When three gates are used for closing 3-lane roads, the sign shall be mounted on the middle gate facing traffic approaching the closed section.

Where traffic is maintained a ROAD CONSTRUCTION TRAFFIC MAINTAINED sign, size 40" x 24", will be furnished for mounting on the barricade at the right-hand side of the roadway adjacent to the roadway facing traffic approaching the construction section. An END OF CONSTRUCTION sign, size 40" x 24", shall be mounted on the back of the barricade at the right-hand side of the road facing traffic leaving the construction section.

MODIFIED DESIGN—The barricade shown hereon is primarily for use in rural areas. In urban areas and at locations where it is impracticable to extend the barricade to the right of way line because of a sidewalk or other obstruction, the ends of the barricade shall be located as directed by the engineer to effect the desired closing of the highway.

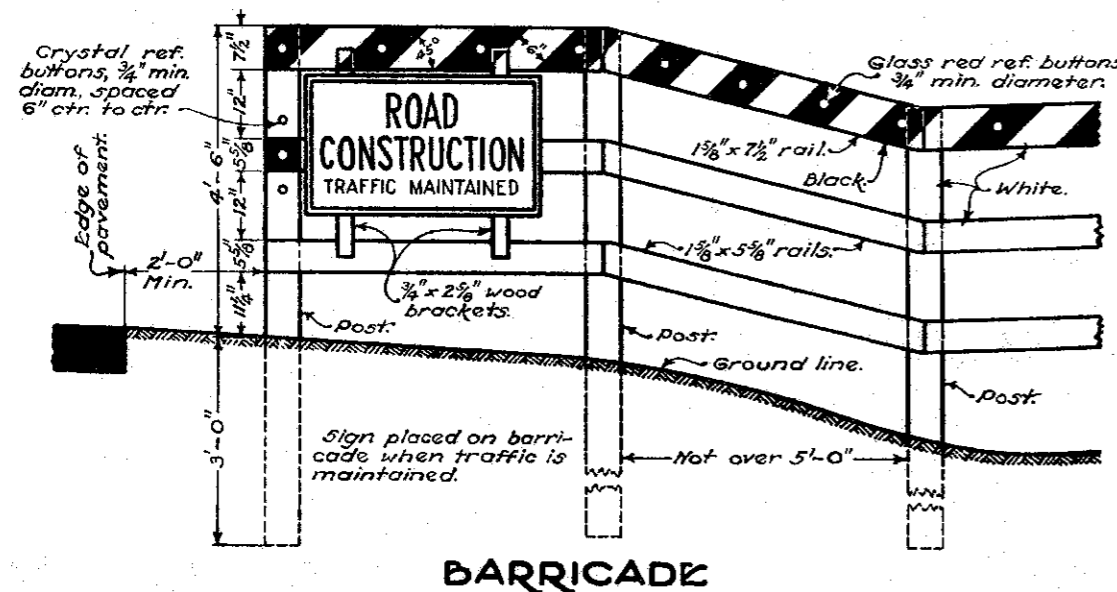


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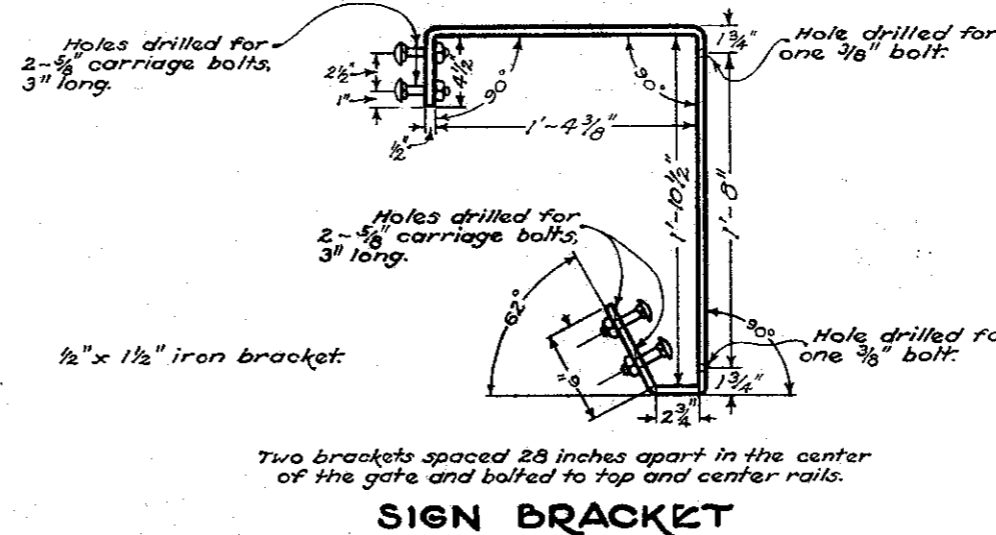


ELEVATION

GATE



BARRICADE



SIGN BRACKET

BUREAU OF LOCATION AND DESIGN
OHIO DEPARTMENT OF HIGHWAYS

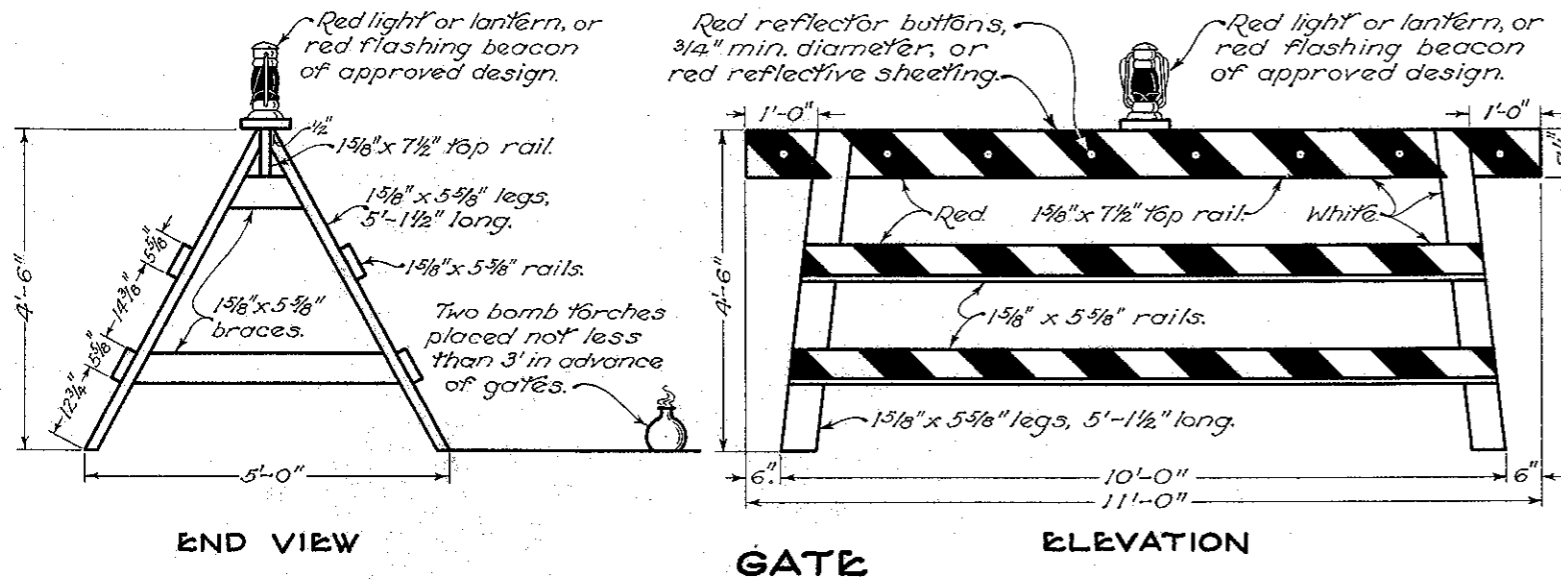
**BARRICADES
AND GATES**

STANDARD
CONSTRUCTION
DRAWING
APPROVED *[Signature]* CHIEF ENGINEER

DATE:
10-1933
6-1-42
2-1-47
2-7-50
5-1-51
1-2-53

G-7.07

STANDARD BARRICADES AND GATES



NOTES

LUMBER used in the construction of the gates and barricades shall be No. 1 common yellow pine or No. 1 common Douglas Fir, or other materials approved by the Engineer, surfaced on four sides standard, in accordance with the requirements of the Specifications.

GATES: The movable gate shall be constructed according to the details shown. Alternate 6" stripes shall be applied on all three rails of a 45° angle, and shall be red and white in color. If all three rails are painted with alternating stripes of red and white, red reflector buttons shall be mounted in the red stripes on the top rail. The top rail may be reflectorized with 6" stripes of red reflective sheeting alternated with 6" stripes of white paint (or white reflective sheeting) in lieu of red reflector buttons. One gate shall be erected for each traffic lane. The gates shall be well spiked, using spikes long enough to clinch.

The hinged gate shall be a gate having 12' length, 48" height, American Steel and Wire style A farm gate or a type approved by the Engineer. The gate shall be hung on hinge screw hooks or as otherwise approved. Striping similar to that used on the movable gate shall be accomplished with lumber 1" nominal thickness or with metal strips fastened to the gate. The gate shall be supported at the center in an approved manner.

BARRICADES shall be constructed according to the details shown. The top rail shall be painted on both sides with alternate 6" black and white stripes on a 45° angle sloping toward the roadway. The two lower rails and posts shall be painted white on both sides.

The barricade shall have an opening of a minimum width of 24 feet. For pavement widths greater than 20 feet, the minimum widths of the barricade openings shall be the pavement width plus 4 feet. The barricade shall remain in place following the re-opening of the road if berm or other work is not completed.

POSTS shall be 6"x6" sawed or 8" round posts and shall conform to the Specifications for Guard Rail Posts.

RAILS of the barricade shall be bolted to the posts with 5/8" bolts.

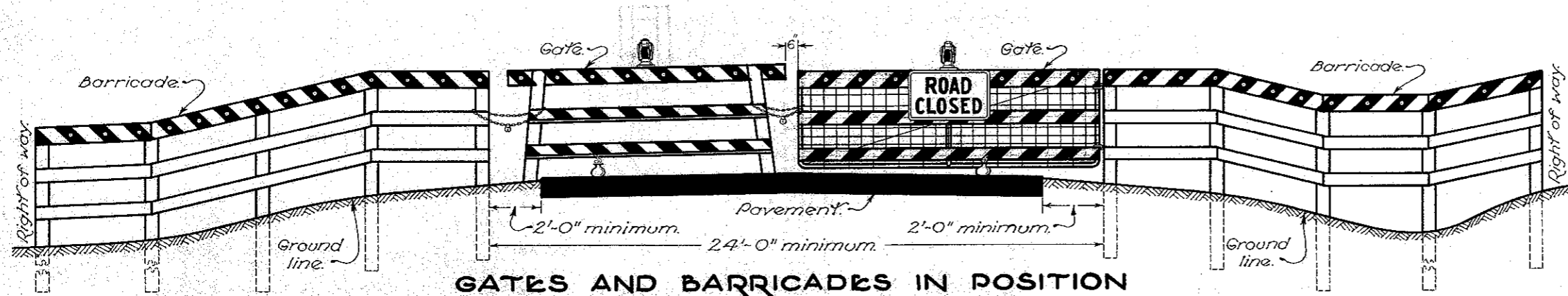
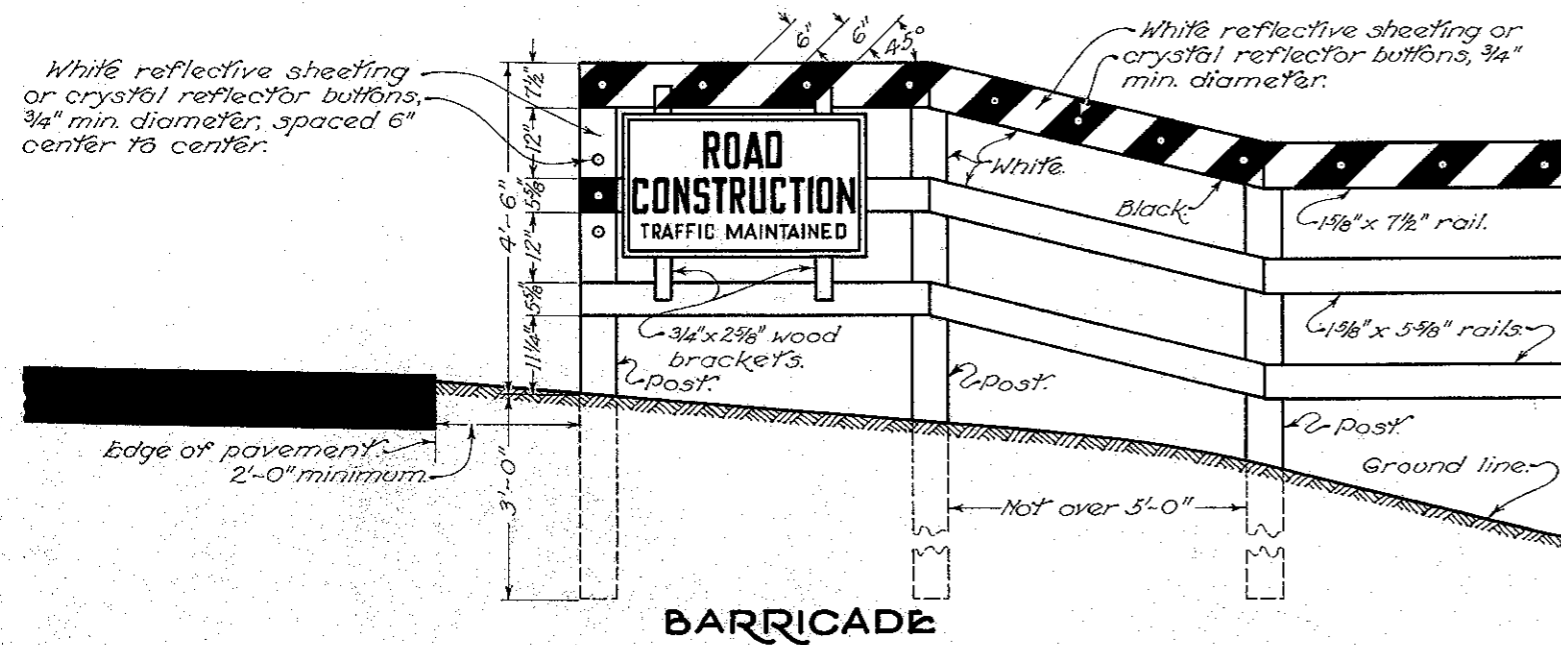
CHAINS: Gates shall be chained and padlocked to one another and to adjacent posts of the barricades. Chains shall be of 3/8" stock with welded links.

BARRICADE REFLECTORS: The top rail of the barricades shall be reflectorized with reflective sheeting or with crystal reflector buttons of 3/4" minimum diameter placed in the black stripes. When traffic is maintained, the top rail of the barricades shall be reflectorized on both sides, and reflectorized sheeting or three crystal reflector buttons of 3/4" minimum diameter shall be mounted as shown on each side of the two posts adjacent to the traveled roadway.

SIGNS: Upon the erection of the gates and barricades according to the above standards, the Division Traffic Engineer shall furnish ROAD CLOSED sign, size 40" x 24", which shall be mounted on the gate as shown. When three gates are used for closing 3-lane roads, the sign shall be mounted on the middle gate facing traffic approaching the closed section.

Where traffic is maintained a ROAD CONSTRUCTION TRAFFIC MAINTAINED sign, size 40" x 24", will be furnished for mounting on the barricade at the right-hand side of the roadway adjacent to the pavement, facing traffic approaching the construction section. An END OF CONSTRUCTION sign, size 40" x 24", shall be mounted on the back of the barricade at the right-hand side of the road facing traffic leaving the construction section.

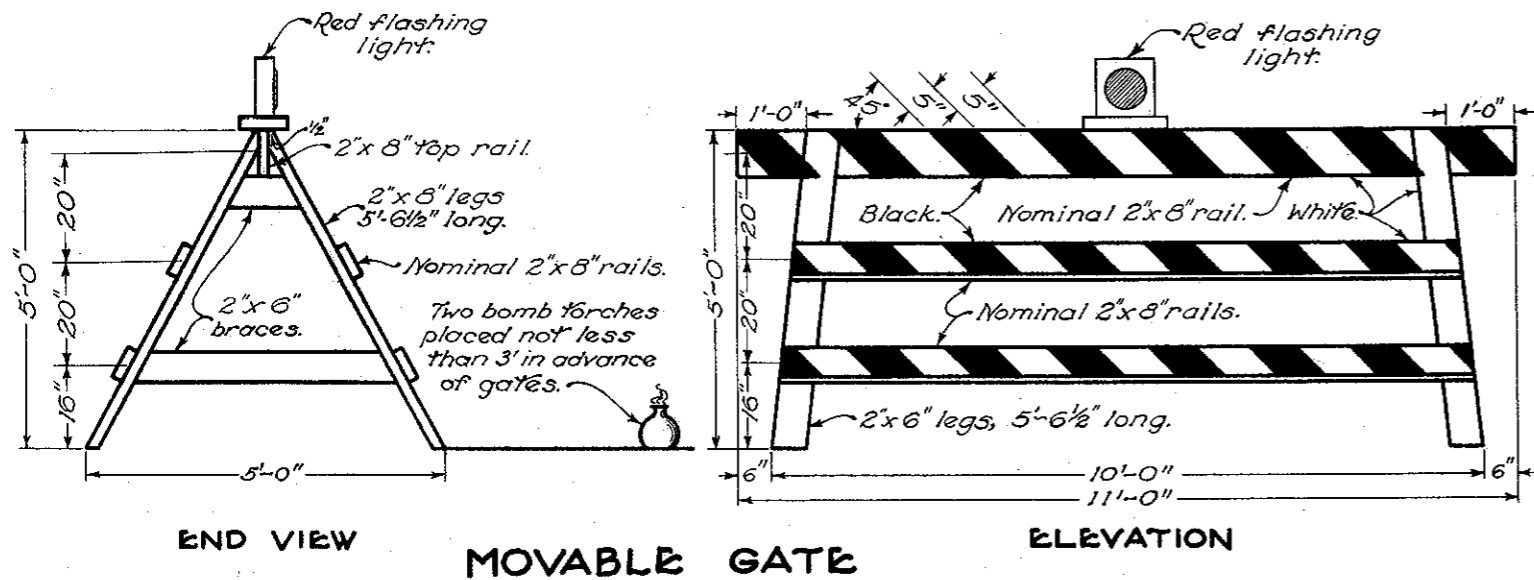
MODIFIED DESIGN: The barricade shown hereon is primarily for use in rural areas. In urban areas and at locations where it is impracticable to extend the barricade to the right of way line because of a sidewalk or other obstruction, the ends of the barricade shall be located as directed by the Engineer to effect the desired closing of the highway.



BUREAU OF LOCATION AND DESIGN OHIO DEPARTMENT OF HIGHWAYS	
BARRICADES AND GATES	
DATE:	10-19-33
	6-1-42
	2-1-47
	2-7-50
	5-1-51
	1-2-53
	4-2-56
STANDARD CONSTRUCTION DRAWING G-7.07	
APPROVED <i>[Signature]</i> ENGR. L. & D.	

STANDARD BARRICADES AND GATES

NOTES



LUMBER used in the construction of the gates and barricades shall be No. 1 common yellow pine or No. 1 common Douglas fir, or other materials approved by the Engineer, surfaced on four sides standard, in accordance with the requirements of the specifications.

GATES. The moveable gate shall be constructed according to the details shown. Alternate 4" to 6" stripes shall be applied on all three rails at a 45° angle, and shall be black and white in color. The top rail may be reflectorized with 4" to 6" stripes of white reflective sheeting alternated with 4" to 6" stripes of black paint. One gate shall be erected for each traffic lane. The gates shall be well spiked, using spikes long enough to clinch.

The hinged gate shall be an approved farm type having 12' length, 48" height, with steel frame or a type approved by the Engineer. The gate shall be hung on hinge screw hooks or as otherwise approved. Striping similar to that used on the moveable gate shall be accomplished with lumber 1" nominal thickness or with metal strips fastened to the gate. The gate shall be supported at the center in an approved manner.

BARRICADES shall be constructed according to the details shown. The top rail shall be painted on both sides with alternate 4" to 6" black and white stripes on a 45° angle sloping toward the roadway. The two lower rails and posts shall be painted the same as top rail.

The barricade shall have an opening of a minimum width of 24 feet. For pavement widths greater than 20 feet the minimum widths of the barricade openings shall be the pavement width plus 4 feet. The barricade shall remain in place following the re-opening of the road if berm or other work is not completed.

POSTS shall be 6"x 6" sawed or 8" round posts and shall conform to the specifications for Guard Rail Posts.

RAILS of the barricade shall be bolted to the posts with 5/8" bolts.

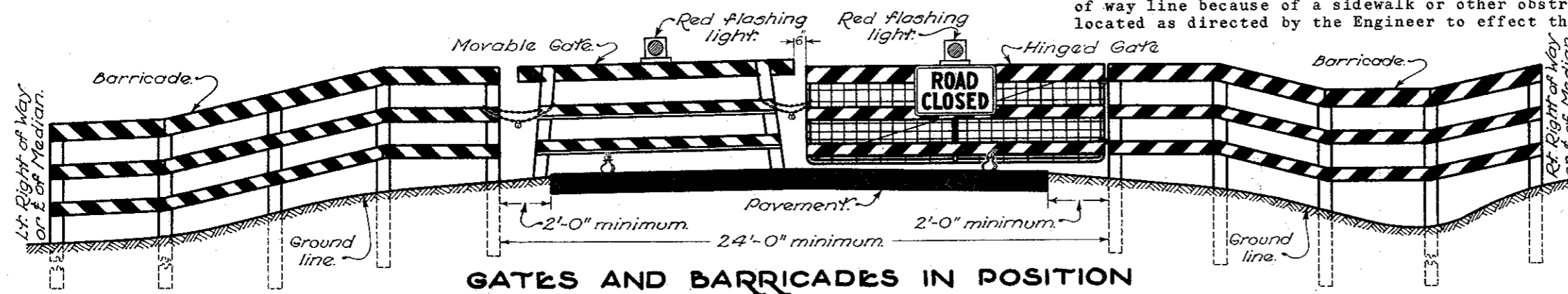
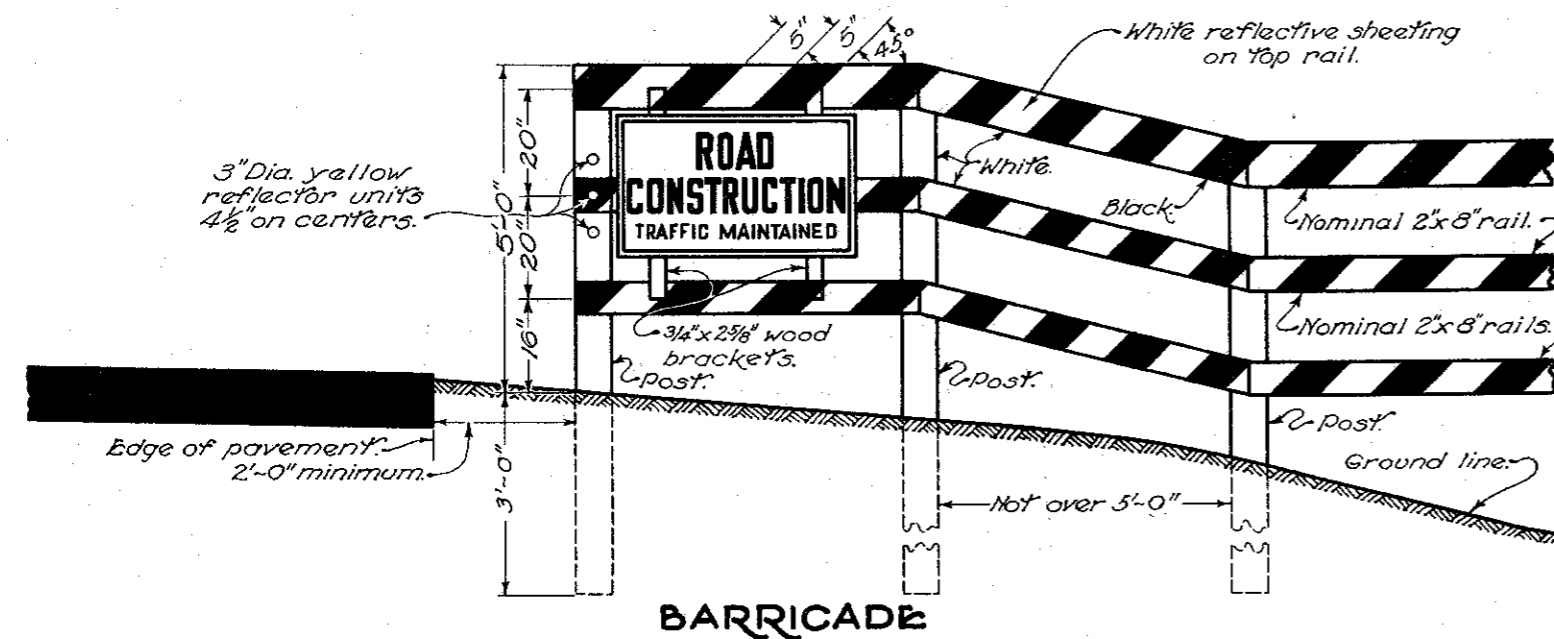
CHAINS. Gates shall be chained and padlocked to one another and to adjacent posts of the barricades. Chains shall be of 5/8" stock with welded links.

BARRICADE REFLECTORS. The top rail of the barricades shall be reflectorized with reflective sheeting. When traffic is maintained, the top rail of the barricades shall be reflectorized on both sides and reflectorized sheeting or three crystal reflector buttons of 3/4" minimum diameter shall be mounted as shown on each side of the two posts adjacent to the traveled roadway.

SIGNS. Upon the erection of the gates and barricades according to the above standards, the Division Traffic Engineer shall furnish ROAD CLOSED sign, size 48"x 30" which shall be mounted on the gate as shown. When three gates are used for closing 3-lane roads, the sign shall be mounted on the middle gate facing traffic approaching the closed section.

Where traffic is maintained a ROAD CONSTRUCTION TRAFFIC MAINTAINED sign, size 48"x 30" will be furnished for mounting on the barricade at the right-hand side of the roadway adjacent to the pavement, facing traffic approaching the construction section. An END OF CONSTRUCTION sign, size 48"x 30" shall be mounted on the back of the barricade at the right hand side of the road facing traffic leaving the construction section.

MODIFIED DESIGN. The barricade shown hereon is primarily for use in rural areas. In urban areas and at locations where it is impracticable to extend the barricade to the right of way line because of a sidewalk or other obstruction, the ends of the barricade shall be located as directed by the Engineer to effect the desired closing of the highway.



BUREAU OF LOCATION AND DESIGN
OHIO DEPARTMENT OF HIGHWAYS

**BARRICADES
AND GATES**

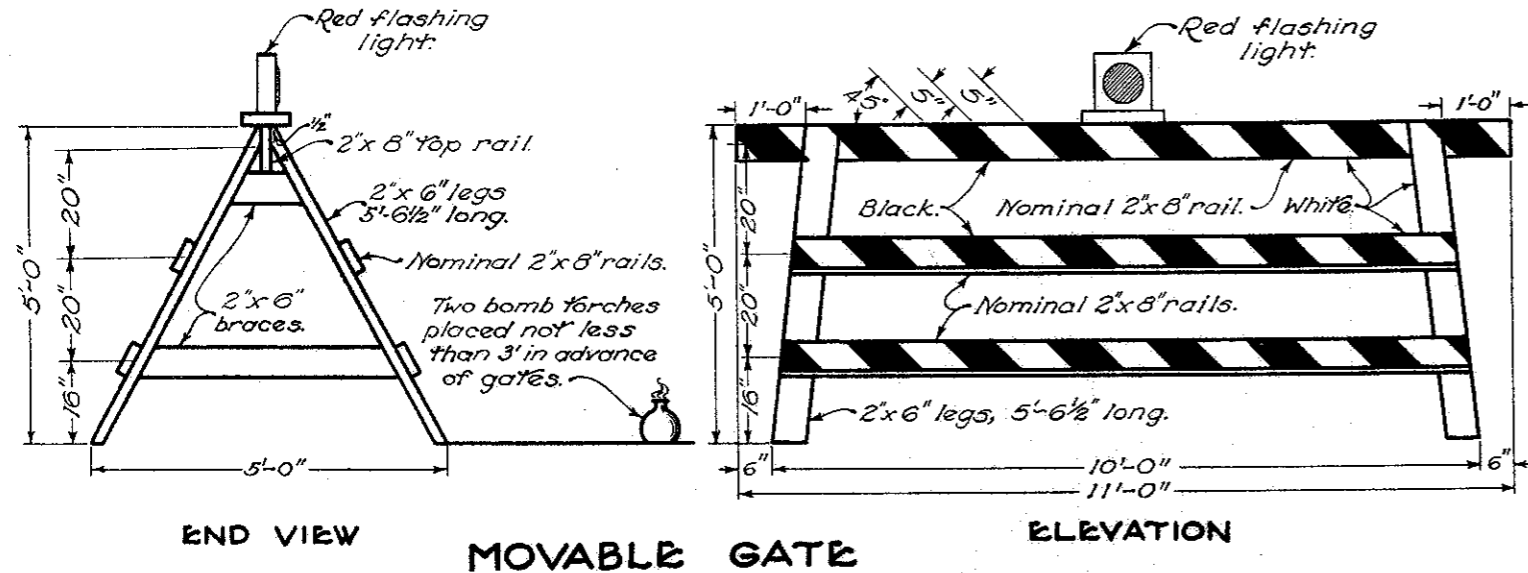
STANDARD
CONSTRUCTION DRAWING
G-7.07

APPROVED ENGR. L. & D.

DATE
10-1-33
6-1-43
2-1-47
2-7-50
5-1-51
1-2-53
4-2-56
6-1-56
3-10-64

STANDARD BARRICADES AND GATES

NOTES



LUMBER used in the construction of the gates and barricades shall be No. 1 common yellow pine or No. 1 common Douglas fir, or other materials approved by the Engineer, surfaced on four sides standard, in accordance with the requirements of the specifications.

POSTS shall be 6" x 6" sawed or 8" rounded posts and shall conform to the specification for Guard Rail Posts. Sec. M-8.5 or M-8.6.

CHAINS. Gates shall be chained and padlocked to one another and to adjacent posts of the barricades. Chains shall be 5/8" stock with welded links.

BARRICADES shall be constructed according to details shown. Rails of the barricade shall be bolted to the posts with 5/8" bolts.

The barricade shall provide an opening of a minimum width of 24 feet. For pavement widths greater than 20 feet minimum open width shall be the pavement width plus four (4) feet. Where erected on divided pavements the barricade shall effectively close the median opening.

PAINTING & REFLECTORIZATION. The top rails of the barricades shall be reflectorized with 5" stripes of white reflective sheeting alternated with 5" stripes of black paint; stripes shall be on a 45° angle sloping toward the center line of the roadway.

Alternate 5" black and white painted stripes shall be applied to all remaining rails at a 45° angle sloping toward the center line of the roadway.

When traffic is maintained the top rails of the barricade shall provide the above described reflectorization at both front and back, and the bottom rails painted as described above. Three yellow reflector units 3" in diameter spaced on 4-1/2" centers shall be mounted on both sides of the posts nearest the pavement edges, as shown.

GATES. The movable gate shall be constructed according to the details shown. Alternate 5" stripes shall be applied on all three rails at a 45° angle, and shall be black and white in color. The top rail shall be reflectorized with 5" stripes of white reflective sheeting alternate with 5" stripes of black paint. One gate shall be erected for each traffic lane. The gates shall be well spiked, using spikes long enough to clinch.

The hinged gate may be used and shall be an approved farm type having 12' length, 48" height, with steel frame or a type approved by the Engineer. The gate shall be hung on hinge screw hooks, or as otherwise approved. Striping similar to that used on the movable gate shall be accomplished with lumber 1" nominal thickness or with metal strips fastened to the gate. The gate shall be supported at the center in an approved manner.

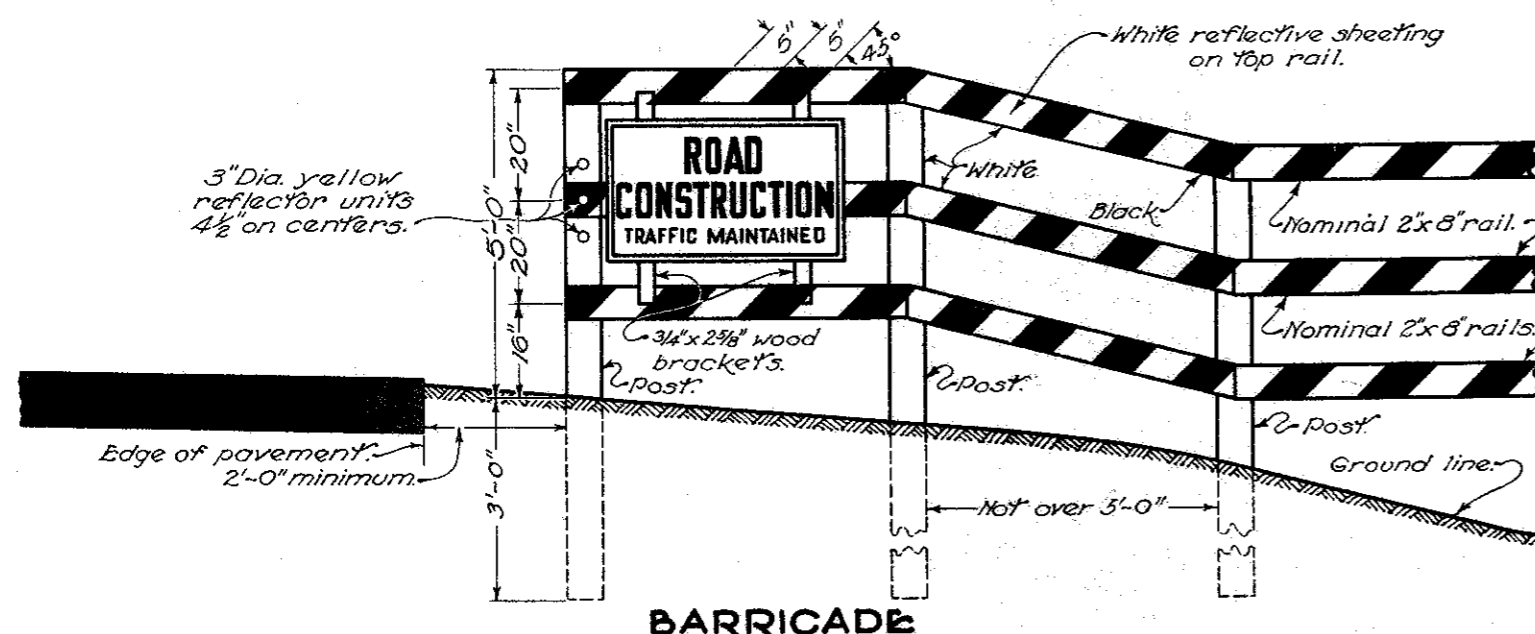
RED LIGHT. Each gate shall be equipped with a red light with minimum lens diameter of 6". The optical unit consisting of lens, reflector, and light source shall be enclosed in and securely held in place by the housing. The optical unit shall be monodirectional. The rate of flash shall be 50 to 70 flashes per minute and the "on" time shall be at least 25 percent of the time. During hours of darkness, the flash shall be bright enough to be conspicuously visible at all distances up to 800 feet from the unit under normal atmospheric conditions. Flasher may be operated by battery, electric generator, commercial power, or propane gas.

Red flasher shall be in operation at all times that the gates close the roadway.

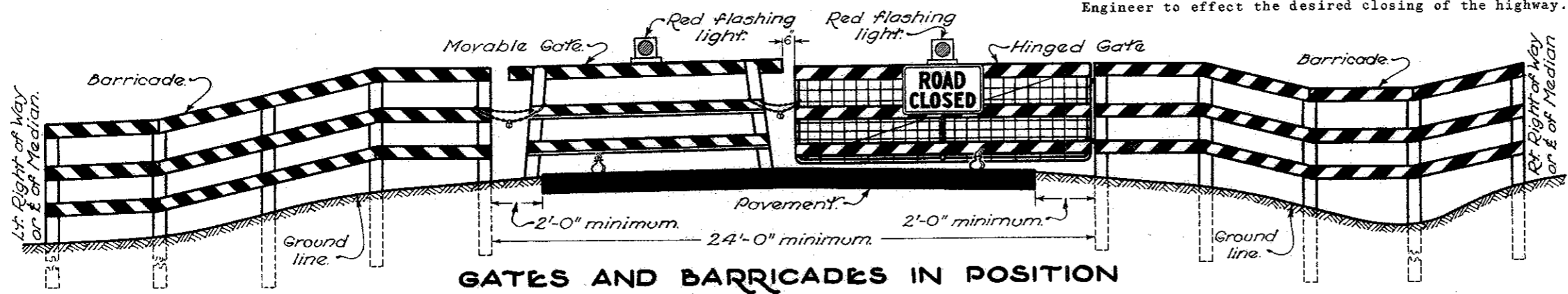
SIGNS. Upon the erection of the gates and barricades, according to the above standards, the Division Traffic Engineer will furnish a ROAD CLOSED sign, size 48" x 30" which will be mounted on the gate as shown. When three gates are used for closing three-lane roads, the sign shall be mounted on the middle gate facing traffic approaching the closed section.

Where traffic is maintained a ROAD CONSTRUCTION TRAFFIC MAINTAINED sign, size 48" x 30" will be furnished for mounting on the barricade at the right-hand side of the roadway adjacent to the pavement, facing traffic approaching the construction section. An END OF CONSTRUCTION sign, size 48" x 30" shall be mounted on the barricade at the right hand side of the road facing traffic leaving the construction section.

MODIFIED DESIGN. The barricade shown hereon is primarily for use in rural areas. In urban areas and at locations where it is impracticable to extend the barricade to the right of way line because of a sidewalk or other obstruction, the ends of the barricade shall be located as directed by the Engineer to effect the desired closing of the highway.



BARRICADE



GATES AND BARRICADES IN POSITION

BUREAU OF LOCATION AND DESIGN
OHIO DEPARTMENT OF HIGHWAYS

BARRICADES AND GATES

DATE: 10-1-33
1-1-42
1-1-47
5-7-50
5-1-51
1-2-53
4-2-56
6-1-56
3-10-64
4-1-64

STANDARD CONSTRUCTION DRAWING G-7.07

APPROVED R.M. [Signature] ENGR. L. & D.