

PUBLIC TELEPHONE SIGNS

INSTALLATION

1.00 GENERAL

The following general rules apply when locating public telephone signs. More specific instructions will be given under the heading of the particular type sign.

- When location is specified on service order, use that location unless it conflicts with the rules given herein.
 - Signs should be clearly visible.
 - Avoid locating flat signs on round or uneven surfaces.
 - Do not locate cemented signs over doorways, entrances, or other locations where people may walk or stand under them.
 - Avoid locating signs on marble, highly finished wood surfaces, and metal trim.
 - Obtain consent of owner or authorized agent before locating sign unless previous consent has been obtained by the commercial department.
 - Exercise every safety precaution when selecting locations for projecting type signs. They are dangerous when installed where the public may come in contact with them.
- THINK** Signs mounted at angles to or suspended from a wall should be installed so that the headroom is not less than 8 feet.
- If a location is in question, consult your supervisor.

2.00 FASTENING DEVICES

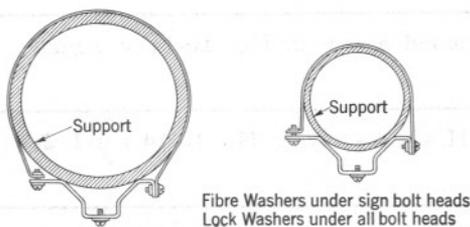


Fig. 1 — 188-type Sign Bracket

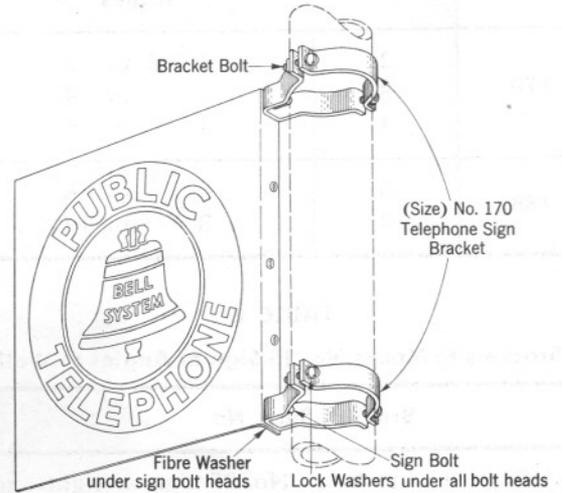


Fig. 2 — 170-type Sign Bracket

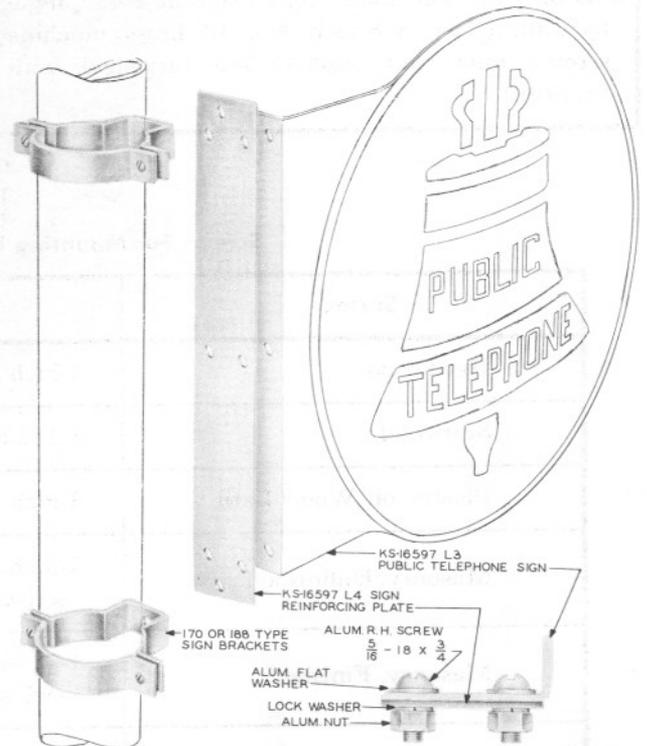


Fig. 3 — KS-16597, List 4 Sign Reinforcing Plate with 170- or 188-type Sign Brackets

TABLE A

Brackets to Mount Nos. 23 and 24 and KS-16597-type Signs on Metal Poles

Bracket, Sign, Type....., Size.....		
Type	Size	Diameter of Support
		Inches
170	2	1-7/8 to 3
	3	3 to 4
	4	4 to 5
188	6	5 to 8
	10	8 to 12

TABLE B

Brackets to Mount No. 25 Sign at Angles to Wall

Bracket, Sign, No.....
25A Sign bracket holds No. 25 sign at right angle to wall.
25B Sign bracket holds No. 25 sign at a 45° angle to wall. (Two 5/8-inch No. 10 brass machine screws, nuts, and washers are furnished with bracket.)

TABLE E

Screws For Mounting KS-14154-type Sign Brackets

Surface	Fastener
Hardwood	1-inch, No. 14 RH wood screws.
Softwood	1-1/2-inch, No. 14 RH wood screws.
Plaster on Wood Lath	2-inch, No. 14 RH wood screws into stud (two required).
Masonry, Unfinished	1-inch, No. 14 RH wood screw in No. 10-14 x 1-inch screw anchor.
Masonry, Finished	1-1/2-inch, No. 14 RH wood screw in No. 10-14 x 1-1/2-inch screw anchor.
Hollow Tile	1/4-inch x 4-inch, RH toggle bolt (two required) or appropriate size wall anchor.

TABLE C

Cement for Mounting No. 21 Sign to Hard Smooth Surfaces

.....Kit, Sign, Cement
Consists of enough cement and wax to mount No. 21 sign.

TABLE D

Post Used to Mount KS-16540-type Signs

No..... Post, Signs, KS-16540, List.....			
List	Length	List	Length
4	8 ft. 6 in.	8	10 ft. 6 in.
5	9 ft.	9	11 ft.
6	9 ft. 6 in.	10	11 ft. 6 in.
7	10 ft.	11	12 ft.

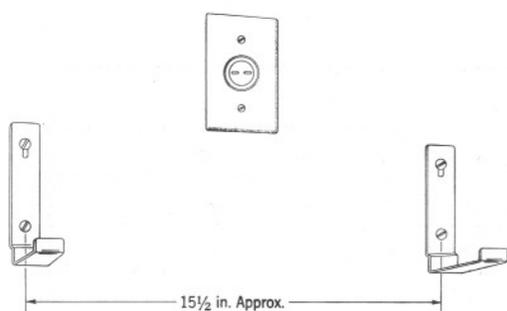


Fig. 4 – Installing KS-14154, List 3 Brackets to Vertical Surface

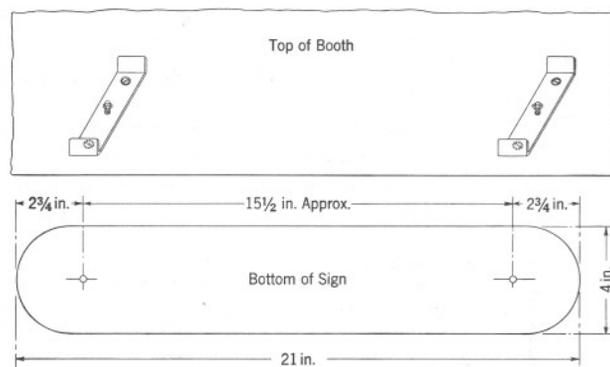


Fig. 5 – Installing KS-14154, List 4 Brackets at Top of Booth

TABLE F

Fasteners for Mounting Nos 22, 23, 24, 25 and KS-16597-type Signs and 25A and B Sign Brackets

Surface	Flanged Signs Nos 23, 24, and KS-16597	Nos 22 and 25 Signs Nos 25A and B Brackets
Wood or Metal Sheath on Wood	1-1/4-inch, No. 14 RH galvanized wood screws.	1-inch, No. 10 RH galvanized wood screws.
Masonry, Brick, Concrete, etc	1-1/4-inch, No. 14 RH galvanized wood screws in No. 10-14 x 1-inch screw anchors.	1-inch, No. 10 RH galvanized wood screws in No. 10-14 x 1-inch screw anchors.
Solid Metal	1/2-inch, No. 10-24 brass machine screws. Use No. 23 straight shank twist drill and No. 10-24 machine screw plug tap.	
Metal Sheath on Furring or other Framework	Appropriate size wall screw anchors or 1/4 x 4-inch RH toggle bolts. Make 3/4-inch hole for toggle bolts.	Appropriate size wall screw anchors or 3/16 x 4-inch BH toggle bolts. Make 5/8-inch hole for toggle bolts.
Hollow Tile, Plastered; Wire Lath, Plastered		
Wood Lath, Plastered	Appropriate size wall screw anchors.	Four 1-1/2-inch, No. 10 RH galvanized wood screws.
Masonry, Plastered	2-inch, No. 10 RH galvanized wood screws in 10-14 x 1-1/2-inch screw anchors.	

TABLE G

Fasteners for Mounting KS-16422, List 4 or 5 Brackets

Surface	Fastener
Hardwood	1-1/4-inch, No. 14 RH wood screws.
Softwood	1-3/4-inch, No. 14 RH wood screws.
Plaster on Wood Lath	2-1/4-inch, No. 14 RH wood screws.
Masonry, Unfinished	1-1/4-inch, No. 14 RH wood screw in 10-14 x 1 inch screw anchor.
Masonry, Finished	1-3/4-inch, No. 14 RH wood screw in 10-14 x 1-1/2-inch screw anchor.
Hollow Tile	1/4-inch x 4-inch, RH toggle bolts or appropriate size wall anchors.

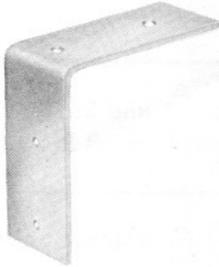


Fig. 6 - KS-16422, List 4 Bracket

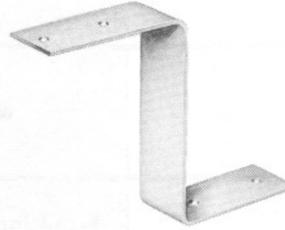


Fig. 7 - KS-16422, List 5 Bracket

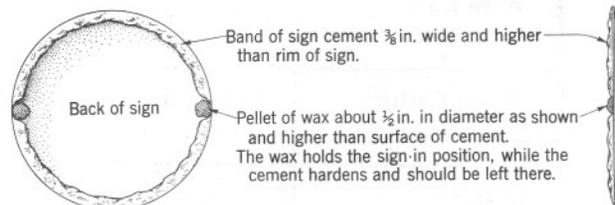
3.00 INSTALLATION

ENAMELED IRON TYPE SIGNS

3.01 Sign, Telephone, Public, No. 21

- The No. 21 sign may be cemented to any glass, marble, metal, or masonry surface that is not rough, uneven, or permanently wet (see Table C).
- Use the following procedure when installing the No. 21 sign.
 1. Surface must be clean and dry.
 2. If surface is damp, wipe dry with cloth or newspaper.
 3. Remove dirt, oil, or grease with KS-7860 petroleum spirits using a clean cloth or rag.
 4. Apply cement to back of sign, as shown in Fig. 8. If sign is warped, be sure cement is built up to provide a level band 3/8-inch wide around sign. Leave a clear space on each side for wax pellets.

5. Place wax pellets in spaces provided and a little higher than cement. Pellets should be free of cement.
6. Position sign on mounting surface and apply pressure directly over wax pellet locations.
7. Do not attempt to remove any warp from sign.
8. Scrape off surplus cement being careful not to scratch mounting surface.
9. Where signs are cemented to a window, a No. 9A sign may be mounted on the reverse side of the glass to improve appearance.



10. Cemented signs may be removed by carefully chipping out the cement between the sign and mounting surface. Chip around the entire circumference until sign is loosened. Do not pry sign off as this may damage mounting surface.

3.02 Sign, Telephone, Public, Nos 23 and 24

- Fasteners for mounting Nos 23- and 24-type signs to flat surfaces are shown in Table F. Place a fastener in each hole provided in the sign except in 11/32-inch grommets of the No. 24 sign which are provided for sign bracket bolts.
- Flanged type signs may be fastened to poles or posts with brackets (see Figs. 1 and 2). Table A lists bracket size and type.
- The following is a convenient method for installing No. 23 or 24 signs on the Nos 170 and 188 sign brackets.
 1. Install top brackets on pole.
 2. Attach bottom bracket to sign.
 3. Attach sign to top bracket on pole.
 4. Install bottom bracket on pole.

3.03 Sign, Telephone, Public, No. 25

- The No. 25 sign may be mounted on flat surfaces or suspended where a directional sign is required. Exercise care to see that arrows are pointed in proper direction. Brackets for mounting No. 25 signs at angles to the wall are listed in Table B. Fasteners for mounting 25-type sign brackets are the same as shown in Table F.

3.04 Sign, Telephone, Public, No. 26

- Install the No. 26 sign on outdoor booths, as shown in Fig. 9. Use 1-inch, No. 8 RH galvanized wood screws for fastening.



Fig. 9 — Installation of No. 26 Sign on Booth

BAKED ENAMEL ON ALUMINUM SIGNS

3.05 Sign, Telephone, Public, KS-16597, List.....

- KS-16597, Lists 1 and 2 signs replace Nos 23 and 24 signs and are to be installed in the same manner.
- Table F lists fasteners for mounting KS-16597-type signs to flat surfaces. A fastener is required in each mounting hole.
- KS-16597-type signs may be mounted on post or poles with 170- or 188-type sign brackets in the same manner as Nos 23 and 24 signs (see Figs. 1 and 2). Table A lists the various sizes and types of 170- and 188-type sign brackets.
- To mount KS-16597, List 3 sign with 170- or 188-type sign brackets, a KS-16597, List 4 sign reinforcing plate will be required to prevent buckling (see Fig. 3).

MASONITE TYPE SIGNS

3.06 Sign, Telephone, Public, Nos 60A and 60B

- The mounting holes for the 60A sign should be drilled 6-3/16 inches from either side of the vertical center line and located on the horizontal center line of the door frame panel above the door as shown in Fig. 10. A side panel installation is shown in Fig. 11. The 60B sign is mounted in the same manner except that the mounting holes should be drilled 7-3/16 inches from either side of the vertical center line.



Fig. 10 — No. 60A Sign on Booth Front



Fig. 11 – No. 60A Sign Mounted on Side Panel

TRANSLUCENT AND DECALCOMANIA TYPE SIGNS

3.07 Sign, Telephone, Public, Nos 9A and 9B

- Use the following procedure to install 9A and 9B signs.
 1. Clean glass.
 2. Wet entire sign preferably by immersing in water.
 3. Wet glass surface and mount sign, face side to wet glass.
 4. Position sign and rub surface from center to edge to remove excess water and air bubbles.
 5. Wipe excess water off sign and glass.
 6. Do not apply sign to freezing surface or when it is likely to freeze before sign is dry.

3.08 Sign, Telephone, Public, Nos 50A and 50B

- Use the following procedure to install 50A and 50B signs.
 1. Clean glass.

2. Submerge sign in water for about 15 seconds.
3. Remove sign from water and wait approximately 2 minutes for water to penetrate paper backing and soften adhesive.
4. To loosen backing, place sign with paper backing against glass or other flat surface and, with palm of one hand against the transfer, gently twist hand from side to side until transfer starts to slide off backing.
5. Wet surface of glass where sign is to be mounted.
6. Slide transfer partially off paper backing. Hold the projecting edge of transfer against glass and withdraw paper from underneath transfer.
7. Position sign and rub surface from center to edge to remove excess water and air bubbles.

ILLUMINATED TYPE SIGNS



The electric circuit must be opened before doing any work on light fixtures.

- All electric wiring shall conform with the national electric code and local ordinances.

3.09 Sign, Telephone, Public, No. 8

- The No. 8 sign may be installed as shown in Figs. 12, 13, 14, and 15 (see Table D for fastening devices).

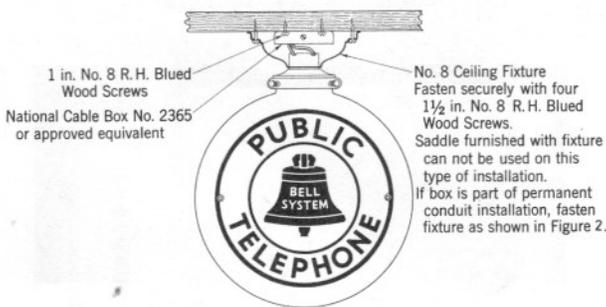


Fig. 12 – No. 8 Sign – Ceiling Installation

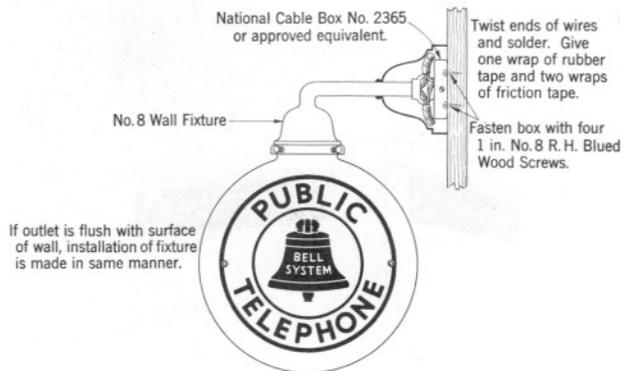


Fig. 13 – No. 8 Sign – Wall Installation

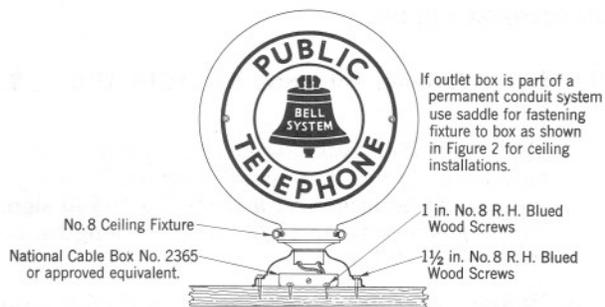


Fig. 14 — No. 8 Sign — Standing Installation

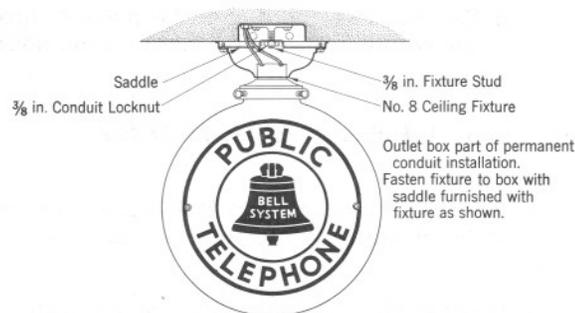


Fig. 15 — No. 8 Sign — Ceiling Installation — Other Surfaces

3.10 Sign, Telephone, Public, KS-14154

- When mounting a KS-14154, List 1 sign on a horizontal surface, such as booth top, use two KS-14154, List 4 brackets, as shown in Fig. 5.
- To install a KS-14154, List 1 sign on a vertical surface, use two KS-14154, List 3 brackets, as shown in Fig. 4.

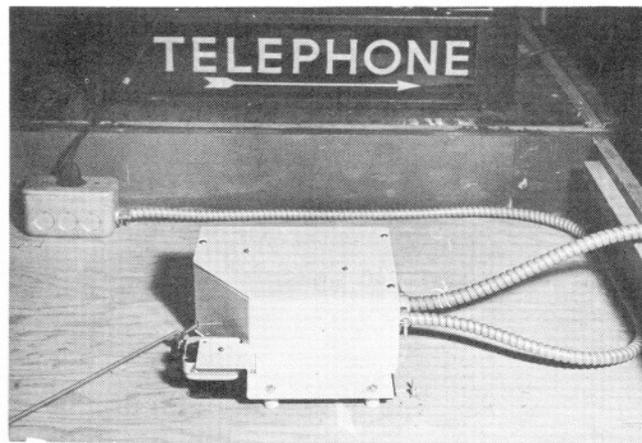
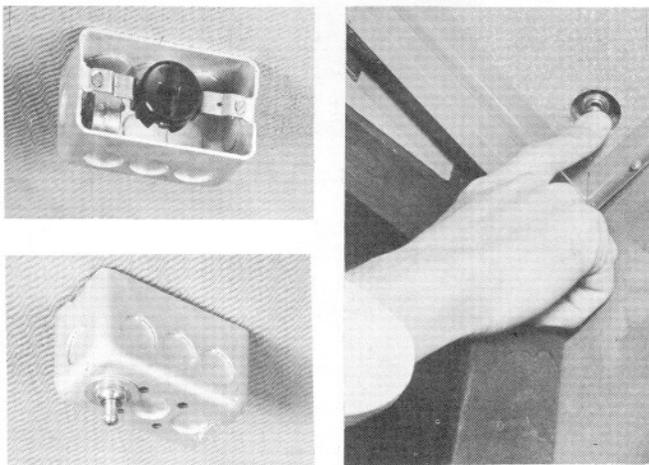


Fig. 16 — P-19A400 Assembly

- An assembly P-19A400 is available for turning the sign on and off from within the booth, as shown in Fig. 16.
- Install the P-19A400 assembly by drilling a 1-inch hole in the front left corner of the ceiling 2-1/4 inches from each edge, and finish with touchup paint to match the ceiling. Center the lever of toggle switch assembly in the hole and fasten box to top of ceiling with the 1/2-inch screws furnished.
- Connect the cable to terminals 3 and 4 of the light fixture (types 1, 3, and 4). Connect the black wire to terminal 3, white to terminal 4. Do not connect more than two terminal lugs under one terminal screw. Plug the cord of the KS-14154 sign into the receptacle of the assembly box.
- Mount the KS-14154, List 2 sign as follows:
 1. Locate near power outlet as illustrated in Fig. 17.
 2. Where wall is not plumb, shim behind brackets with cardboard until sign is level.
 3. Use backboard where surface is uneven.
 4. Sign panels may be replaced by removing the two self-tapping screws at the outer edge of the top of the housing and lifting off corner molding.
 5. After the sign is mounted, place a self-tapping screw through the hole in flange of mounting bracket and tighten securely.



Fig. 17 — KS-14154, List 2 Sign

- 6. Excess power cord shall be pushed through the cord entrance grommet into the housing.

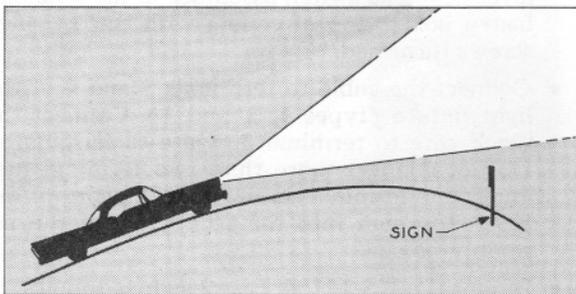
3.11 Sign, Telephone, Public, KS-16422

- KS-16422 sign replaces KS-14154 sign and is to be installed in the same manner.
- For parallel or end mounting on walls, one KS-16422, List 4 bracket will be required (see Fig. 6).
- A KS-16422, List 5 bracket is provided for cases where ledge or horizontal surface mountings might be required (see Fig. 7).
- The P-19A400 assembly can be used in the same manner as prescribed in 3.09.

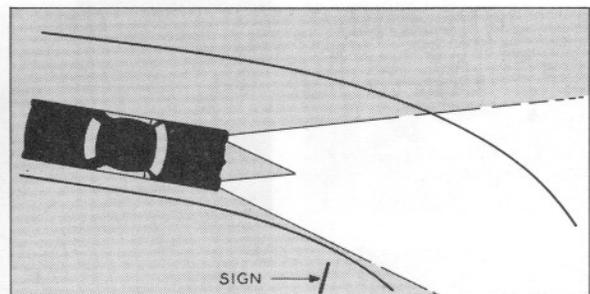
REFLECTORIZED SIGNS

3.12 Sign, Warning, Advance, KS-16540, Lists 1, 2, and 3

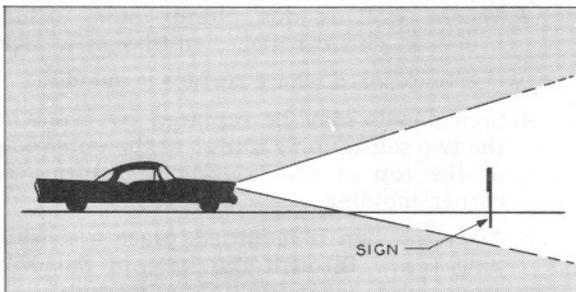
- The KS-16540-type signs are equipped with mounting screws, nuts, and washers. Two sign posts must be ordered for each KS-16540 sign. These posts come in eight different lengths, as shown in Table F.
- Before ordering signs or posts, each location should be surveyed for the following:
 1. That signs and locations meet with local highway regulations.
 2. That locations afford maximum visibility from the greatest possible distance (see Fig. 18).
 3. What type sign and length post are needed. Consider depth post will be set; this will vary with local soil conditions.



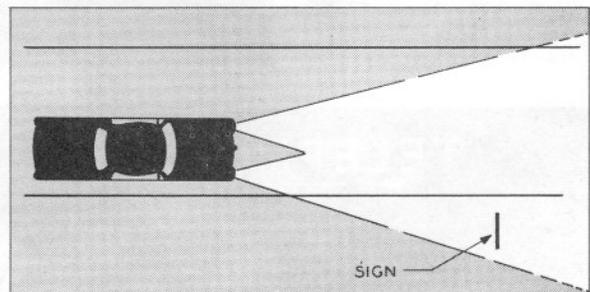
WRONG



WRONG



RIGHT



RIGHT

Fig. 18 – Correct and Incorrect Locations for the KS-16540 Sign

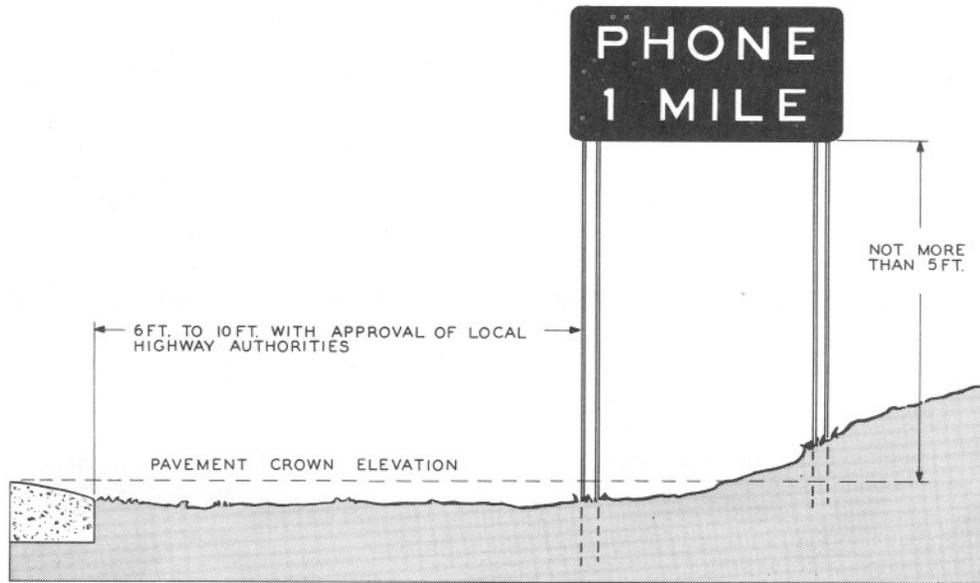


Fig. 19 — KS-16540, List 1 Sign Mounted

- Sign posts and their foundations shall be so constructed as to hold sign rigidly in a proper and permanent position.
- Mount the KS-16540-type signs at right angles to the traffic and as indicated by Fig. 19.
- When excessive glare from the face of the sign affects its legibility, turn sign slightly away from road, as shown in Fig. 20.

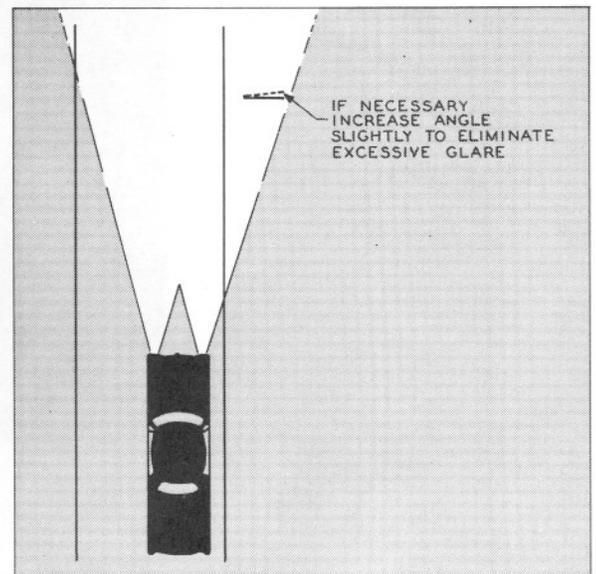


Fig. 20 — KS-16540 Sign — Angle Increased to Eliminate Excessive Glare