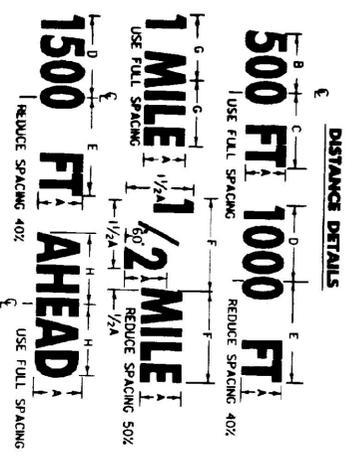
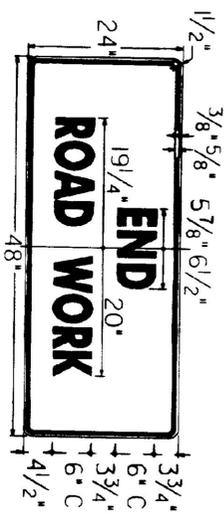


SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J	K	
MIN.	36	36	40	2 1/2	2 1/2	6 1/2	7	7 1/2	1 1/2	1 1/2	
STD.	36	36	40	3 1/2	3 1/2	8 1/2	9	9 1/2	2	2 1/4	
SPECIAL	48	3 1/2	70	4 1/2	4 1/2	11 1/2	12 1/2	12 1/2	3	3	

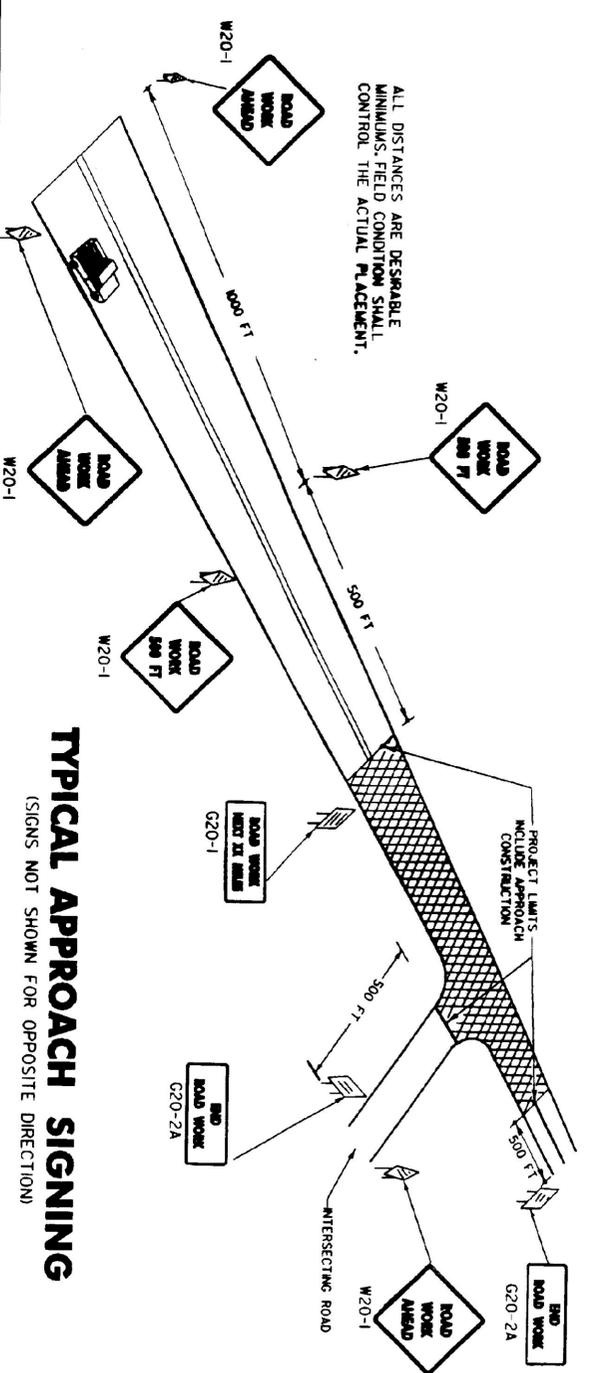
* SEE DISTANCE DETAILS



A	DIMENSIONS (INCHES)										
	B	C	D	E	F	G	H	I	J	K	
40	8 1/2	8 1/2	9	9	9	7 1/2	8 1/2	10 1/2	10 1/2	10 1/2	
50	10 1/2	10 1/2	11 1/4	11 1/4	11 1/4	9 1/2	10 1/2	12 1/2	12 1/2	12 1/2	
70	14 1/2	14 1/2	15 3/4	15 3/4	15 3/4	13 1/4	14 1/2	16 1/2	16 1/2	16 1/2	



G20-2A



TYPICAL APPROACH SIGNING
(SIGNS NOT SHOWN FOR OPPOSITE DIRECTION)

APPROVED

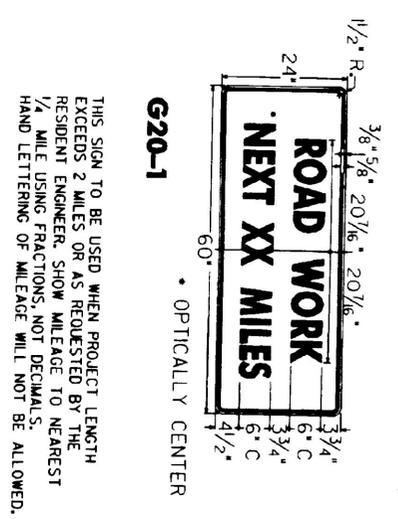
[Signature]
DIRECTOR OF ENGINEERING

[Signature]
DIRECTOR OF CONSTRUCTION AND MAINTENANCE

REVISIONS AND CORRECTIONS

MAY 26, 1989 - DATE OF ORIGINAL ISSUE
OCT 21, 1992 - REVISED WOOD POST REQUIREMENTS,
ADDED SIGN DETAILS, & REVISED
TITLE BLOCK
AUG 08, 1995 - MINOR NOTE REVISIONS
JAN 06, 1997 - MINOR NOTE AND DIMENSION REVISIONS

CONSTRUCTION APPROACH
SIGNS



G20-1

THIS SIGN TO BE USED WHEN PROJECT LENGTH EXCEEDS 2 MILES OR AS REQUESTED BY THE RESIDENT ENGINEER. SHOW MILEAGE TO NEAREST 1/4 MILE USING FRACTIONS; NOT DECIMALS. HAND LETTERING OF MILEAGE WILL NOT BE ALLOWED.

NOTES

THE SIGNS SHOWN ON THIS SHEET ARE INTENDED FOR USE IN PROVIDING ADVANCE WARNING AND INFORMATION ON CONSTRUCTION PROJECTS OVER WHICH TRAFFIC WILL BE MAINTAINED. WHEN ADDITIONAL APPROACH SIGNS OR OTHER TYPES ARE REQUIRED FOR THIS PROJECT, THE PLANS AND/OR THE SPECIFICATIONS FOR THAT PROJECT SHALL BE REFERRED TO FOR THE SPECIFIC REQUIREMENTS FOR ON-PROJECT CONSTRUCTION SIGNS. REFER TO APPROPRIATE STANDARD SHEETS.

APPLICATION OF STANDARDS
SINCE IT IS NOT POSSIBLE TO PRESCRIBE DETAILED STANDARDS OF APPLICATION FOR ALL OF THE SITUATIONS THAT MAY BE ENCOUNTERED IN A CONSTRUCTION PROJECT, REFERENCE SHALL BE MADE TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" FOR THE PRINCIPLES, PROCEDURES, AND STANDARDS THAT WILL BE REQUIRED FOR BARRICADES WITH ADVANCED WARNING AND ON-PROJECT CONSTRUCTION SIGNS AND MORE COMMONLY USED.

LOCATION
THE SIGNS SHALL BE LOCATED AS DETAILED ON THIS SHEET OR AS OTHERWISE SHOWN ON THE PLANS. THEY SHALL APPEAR AT EACH END OF THE HIGHWAY UNDER CONSTRUCTION, AND ON ALL INTERSECTING PUBLIC HIGHWAYS TO BE FOLLOWED AND UPON THE ALIGNMENT INTENDED TO INDICATE THE SCENE DETERMINING THE EXACT LOCATIONS.

DETAILS
LETTERS, DIGITS, ARROWS, SPACING AND TEXT DIMENSIONS SHALL CONFORM WITH THE "STANDARD HIGHWAY SIGNS AS LISTED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" ADOPTED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMIN.

MATERIALS
THE SIGN BASE MATERIAL USED FOR THE SIGNS ON THIS SHEET MAY BE ANY OF THE FOLLOWING:
1. 1/2" ALUMINUM
2. 1/2" GALVANIZED SHEET STEEL
3. 1/2" GALVANIZED SHEET STEEL

INSTALLATION
ALL REFLECTORIZED MATERIAL SHALL CONSIST OF TYPE 11B OR TYPE 111 SHEETING.

COLOURS
THE COLOURS SHALL CONFORM WITH THE STANDARD COLOURS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION ENGINEERS AND APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION. COLOURS SHOWN ON THIS SHEET CONSIST OF BLACK TEXT AND BORDER ON A REFLECTORIZED SHADE BACKGROUND.

POSTS
THE SIGNS SHALL BE ERECTED BEFORE THE START OF ANY WORK AND SHALL BE COVERED UNTIL THE END OF THE PERIOD OF INACTIVITY, OR UPON COMPLETION OF THE WORK. SIGNS MAY BE REMOVED AT THE DISCRETION OF THE ENGINEER. THE BOTTOM OF A SIGN SHALL BE AT LEAST 6 FEET ABOVE THE FINISHED GRADE OF THE ROADWAY. THE SIGN SHALL BE AT LEAST 6 FEET OUTSIDE THE EDGE OF PAVEMENT, AND THE NEAREST EDGE OF A SIGN SHALL BE AT LEAST 6 FEET OUTSIDE THE EDGE OF PAVEMENT. THE SIGN SHALL BE AT LEAST 7 FEET ABOVE THE SIDEWALK OR SIDEWALK. THE INSTALLATION OF THE SIGN SHALL BE AT LEAST 7 FEET ABOVE THE SIDEWALK.

NOTES CONT.

MATERIALS
SIGNS SHALL BE MAINTAINED IN A CLEAN AND LEGIBLE CONDITION SATISFACTORY TO THE ENGINEER. SIGNS SHALL BE REPAIRED OR REPLACED AS NECESSARY TO APPROACHING TRAFFIC AT ALL TIMES. THE SIGNS SHALL BE KEPT PLACED OR REMOVED AS NECESSARY TO MAINTAIN A NEAT APPEARANCE. DAMAGED, DEFACED, OR DIRTY SIGNS SHALL BE REPAIRED, CLEANED OR REPLACED AS ORDERED BY THE ENGINEER.

INSTALLATION
THE COST OF FURNISHING, INSTALLING, MAINTAINING AND REMOVING ALL CONSTRUCTION SIGNS SHALL BE CONSIDERED SEPARATE WORK PERTAINING TO THE PROJECT AS A WHOLE AND SHALL BE INCLUDED IN THE CONTRACT BIDDING FOR VARIOUS ITEMS INVOLVED IN THE CONTRACT. DURING A PHASE OF CONSTRUCTION, THE SIGN DIMENSIONS SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" SHALL BE COVERED IN A WORKMANLIKE MANNER.

SIGN COVERS
SIGN COVERS SHALL CONSIST OF A PANEL, PAINTED FLAT BLACK, THE SAME SIZE AS THE SIGN IT COVERS. THE PANEL SHALL BE MADE OF 1/2" THICK WOOD, OR ANY MATERIAL SATISFACTORY TO THE ENGINEER. NO WATER OR OTHER LIQUID WILL PERMEATE OR EXPOSE TO THE WEATHER DURING THE PROJECT. THE SIGN PANEL SHALL BE DONE IN SUCH A WAY AS NOT TO DAMAGE THE SIGN FACE MATERIAL. CONTRACTORS SHALL COORDINATE THEIR SIGNING ACTIVITIES WITH OTHER CONTRACTORS WITHIN THE PROJECT LIMITS, AS DIRECTED BY THE REGIONAL CONSTRUCTION ENGINEER.

SIGN POSTS

WHERE CONSTRUCTION SIGN INSTALLATIONS ARE NOT PROTECTED BY GUARD RAIL OR OTHER APPROVED TRAFFIC BARRIERS, THE SIGNS ON WHICH THE SIGNS ARE SET SHALL BE PROTECTED BY DRILLING METAL POSTS AS DESIGNATED IN THE E SERIES OF STANDARD DRAWINGS OR BY FIELDING WOODEN POSTS IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

WOODEN POSTS ARE ACCEPTABLE FOR USE WITH CONSTRUCTION SIGNS. THESE POSTS SHALL HAVE A LARGER CROSS-SECTION AND SHALL BE MADE FROM SEASONED, KNOT-FREE, SOUTHWEST YELLOW PINE OR EXCELLENCE FIBER BENDING "D" DESIGN VALUE NOT TO EXCEED 90 PSI SPECIFIED MOD PUL AND MODULUS OF ELASTICITY. DESIGN VALUES FOR WOOD CONSTRUCTION AND RELATED SUPPLEMENT, DATED 1986.

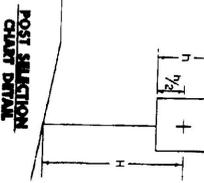
AS ESTABLISHED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION IN THEIR NATIONAL DESIGN THE FOLLOWING ARE CONSIDERED TO BE ACCEPTABLE WOODEN POSTS:

- 4" x 4" (ACTUAL DIMENSIONS ARE 3.5" x 3.5")
 - ACCEPTABLE FOR SINGLE OR DUAL POSTS INSTALLATION WITH NO MODIFICATIONS.
- 4" x 6" (ACTUAL DIMENSIONS ARE 3.5" x 5.5")
 - ACCEPTABLE FOR SINGLE POST INSTALLATIONS ONLY WHEN MODIFIED BY DRILLING TWO 1 1/2" DIAMETER HOLES, ONE AT 4" AND THE OTHER AT 18" ABOVE THE GROUND LINE AND PERPENDICULAR TO THE ROADWAY CENTRAL LINE.
- 6" x 6" (ACTUAL DIMENSIONS ARE 5.5" x 5.5")
 - ACCEPTABLE FOR SINGLE POST INSTALLATIONS ONLY WHEN MODIFIED BY DRILLING TWO 3" DIAMETER HOLES, ONE AT 4" AND THE OTHER AT 18" ABOVE THE GROUND LINE AND PERPENDICULAR TO THE ROADWAY CENTRAL LINE.
- 6" x 8" (ACTUAL DIMENSIONS ARE 5.5" x 7.5")
 - ACCEPTABLE FOR SINGLE POST INSTALLATIONS ONLY WHEN MODIFIED BY DRILLING TWO 3" DIAMETER HOLES, ONE AT 4" AND THE OTHER AT 18" ABOVE THE GROUND LINE AND PERPENDICULAR TO THE ROADWAY CENTRAL LINE.

APPROPRIATE SIGNING CRITERIA
THE LONGER DIMENSION OF THE POST(S), SUCH AS THE 6" DIMENSION OF THE 4" x 6" POST, SHALL BE PLACED PARALLEL TO THE ROADWAY CENTERLINE.
ALL WOODEN POSTS SHALL HAVE AN EMBEDMENT DEPTH OF 4 FEET.
NO CROSS-BRACING OR BACK-BRACING TO KEEP THE POSTS PLUMB WILL BE ALLOWED.
CONCRETE FOUNDATIONS, COLLARS, OR SOIL BEARING PLATES ARE NOT PERMITTED.
CONSTRUCTION SIGNS SHALL BE PLACED ON TWO OR MORE POSTS WHEN ANY OF THE FOLLOWING CONDITIONS GOVERN:
a) THE SIGN WIDTH (HORIZONTAL DIMENSIONS FOR DIAMOND SHAPED SIGNS) EXCEEDS 3 1/2 FEET.
b) THE EXPOSED SIGN AREA OF ANY SINGLE SIGN OR ASSEMBLY EXCEEDS 12 1/2 SQ. FEET.
c) THE SV OR A SINGLE POST IS EXCEEDED (SEE THE POST SELECTION CHART BELOW).

WOOD POST SELECTION CHART

SIGN AREA (FT ²) X HEIGHT (FT) < SV (SELECTION VALUE)	POST SIZE	DESIGN CRITERIA
4' x 4'	SV	WIND SPEED = 60 MPH (10-YEAR)
4' x 6'	147	MEAN OCCURRENCE INTERVAL
6' x 6'	26	WIND PRESSURE = 13 psf
6' x 8'	389	ALLOWABLE BENDING STRESS



OTHER STDS. REQUIRED:

/trgf/std/stdb00.dgn : stdb00.i



STANDARD
E-100