

# GENERAL NOTES










FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

LAKE COUNTY  
ASHTABULA COUNTY  
LAK-1-12.89  
ATB-1-0.00

## EQUATIONS:

STA. 456 + 58.83 BK. = STA. 456 + 61.36 AHD. DEDUCT 2.53 LIN. FT.  
 STA. 686 + 59.45 BK. = STA. 686 + 29.94 AHD. ADD 29.51 LIN. FT.  
 STA. 891 + 50.47 BK. = STA. 927 + 50.00 AHD. DEDUCT 3,599.53 LIN. FT.  
 STA. 1052 + 76.43 BK. = STA. 0 + 00.00 AHD. ADD 105,276.43 LIN. FT.  
 STA. 119 + 07.39 BK. = STA. 0 + 44.61 AHD. ADD 11,862.78 LIN. FT.  
 STA. 371 + 79.89 BK. = STA. 373 + 13.44 AHD. DEDUCT 133.55 LIN. FT.  
 STA. 576 + 74.87 BK. = STA. 581 + 33.92 AHD. DEDUCT 459.05 LIN. FT.  
 STA. 687 + 01.42 BK. = STA. 0 + 00.00 AHD. ADD 68,701.42 LIN. FT.  
 STA. 140 + 06.92 BK. = STA. 143 + 75.87 AHD. DEDUCT 368.95 LIN. FT.  
 STA. 190 + 52.43 BK. = STA. 190 + 76.77 AHD. DEDUCT 24.34 LIN. FT.  
 STA. 267 + 46.10 BK. = STA. 268 + 25.96 AHD. DEDUCT 79.86 LIN. FT.  
 STA. 338 + 00.73 BK. = STA. 338 + 00.00 AHD. ADD .73 LIN. FT.  
 STA. 430 + 33.03 BK. = STA. 430 + 57.63 AHD. DEDUCT 24.60 LIN. FT.  
 STA. 604 + 48.55 BK. = STA. 610 + 88.21 AHD. DEDUCT 639.66 LIN. FT.  
 STA. 788 + 99.49 BK. = STA. 794 + 77.84 AHD. DEDUCT 578.35 LIN. FT.

## SIGN SUPPORT AND DELINEATOR SYMBOLS

SIGNS ON ONE SUPPORT   
 SIGNS ON TWO SUPPORTS   
 SIGNS ON THREE SUPPORTS   
 SINGLE SUPPORT OVERHEAD STRUCTURES   
 DOUBLE SUPPORT OVERHEAD STRUCTURES   
 DELINEATOR, POST MOUNTED TYPE C2   
 DELINEATOR, POST MOUNTED TYPE C3   
 DELINEATOR, BRACKET MOUNTED TYPE C2   
 DELINEATOR, POST MOUNTED DOUBLE FACED TYPE C2 

## SEEDING AND SODDING DISTURBED AREAS

ALL AREAS ON THIS PROJECT WHICH HAVE BEEN SEEDDED OR SODDED BY OTHERS AND WHICH ARE DISTURBED BY THE CONTRACTOR IN PERFORMING THE REQUIREMENTS OF THIS CONTRACT SHALL BE TREATED AS FOLLOWS

THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITION BY APPROVED SEEDING AND SODDING METHODS AND MATERIALS AS DIRECTED BY THE ENGINEER. THE TOTAL COST OF PERFORMING THE ABOVE OPERATIONS SHALL BE INCLUDED IN THE COST OF THE VARIOUS ITEMS OF THIS PROJECT.

## LATERAL PLACEMENT OF POST MOUNTED DELINEATORS

POSTS FOR TYPE C3 DELINEATORS SHALL BE AT A LATERAL DISTANCE OF 12 FEET 6 INCHES FROM THE EDGE OF THE PAVEMENT. POSTS FOR TYPE C2 DELINEATORS SHALL BE AT A LATERAL DISTANCE OF 10 FEET 6 INCHES FROM THE EDGE OF THE PAVEMENT WHEN THESE DELINEATORS ARE REQUIRED ON THE RIGHT SIDE OF THE ROADWAY AND A DISTANCE OF 8 FEET 6 INCHES FROM THE PAVEMENT EDGE WHEN ON THE LEFT SIDE, RIGHT AND LEFT SIDE OF ROADWAY REFERS TO DIRECTION OF TRAFFIC FLOW IN THIS NOTE.

## DELINEATOR SPACING

TYPE C2 DELINEATORS SHALL BE SPACED AT 100 FOOT INTERVALS.  
 TYPE C3 DELINEATORS SHALL BE ERECTED AT THE STATION NUMBER SHOWN ON THE PLANS.

## OVERHEAD SIGN SUPPORTS

ALL COMPONENTS OF THE OVERHEAD SIGN SUPPORTS USED ON THIS PROJECT SHALL BE ALUMINUM IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION I-129 UNLESS OTHERWISE INDICATED IN THE PLAN OR PROPOSAL.

## GALVANIZED SUPPORTS

STEEL BEAM STRUCTURAL SUPPORTS INCLUDING THE 8 POUNDS PER FOOT STEEL BEAM SHALL BE GALVANIZED (AFTER PUNCHING) IN ACCORDANCE WITH THE REQUIREMENT OF A.S.T.M. DESIGNATION A-123. NUTS, BOLTS, AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF A.S.T.M. DESIGNATION A-153 EXCEPT WHERE ALUMINUM OR STAINLESS STEEL IS REQUIRED. GALVANIZED STEEL BEAM STRUCTURAL SUPPORTS AND ALUMINUM OVERHEAD SIGN SUPPORTS SHALL NOT BE PAINTED.

## SIGN MATERIALS

SIGNS WITH CODE NUMBERS BEGINNING WITH THE LETTERS G, S-G, N, RA AND SIGNS W-100-288, W-101-288 SHALL CONSIST OF ALUMINUM SECTIONAL SHEET AND DEMOUNTABLE COPY. ALL OTHER SIGNS SHALL CONSIST OF ALUMINUM SHEET .064" THICK IN ACCORDANCE WITH SEC. I-128.02 (2).

## SIGN COLOR AND REFLECTORIZATION

PAINTS AND REFLECTIVE MATERIALS REQUIRED FOR SIGN BACKGROUNDS AND COPY, (LETTERS, DIGITS, ROUTE MARKERS, SYMBOLS, BORDERS, AND OUTLINES) SHALL BE OF THE COLOR AND TYPE SHOWN ON THE PLANS AND DESCRIBED BELOW:

SIGN TYPE	BACKGROUND	COPY	SIGN TYPE	BACKGROUND	COPY
G'S	RSG	*DCU	M-5'S	RSRB	RSW
S-G'S	RSG	DCU	ALL OTHER M'S	RSW	SPBK
N-3-270	SEE SHEET 40		IM'S	RSB	RSW
N-12-72, N-14-96	RSG	DCU	RA'S	RSW	DCG
W-100-288, W-101-288	RSW	DCBK	R-I'S	RSR	RSW
ALL OTHER W'S	RSY	SPBK	R-69-60	RSY	SPBK
D'S	RSW	SPBK	ALL OTHER R'S	RSW	SPBK
			S-1-96, S-2-96	RSW	SPBK

## KEY

RSG TYPE F REFLECTIVE SHEETING (GREEN)  
 RSW TYPE F REFLECTIVE SHEETING (SILVER-WHITE GRADE B)  
 RSY TYPE F REFLECTIVE SHEETING (YELLOW)  
 RSR TYPE F REFLECTIVE SHEETING (SILVER-WHITE GRADE B WITH REVERSE SCREEN TRANSPARENT RED)  
 RSB TYPE F REFLECTIVE SHEETING (SILVER-WHITE GRADE B WITH REVERSE SCREEN TRANSPARENT BLUE)  
 RSRB TYPE F REFLECTIVE SHEETING (SILVER-WHITE GRADE B WITH REVERSE SCREEN TRANSPARENT RED AND BLUE)  
 SPBK SILK SCREEN PASTE (BLACK)  
 DCU DEMOUNTABLE COPY (REFLECTIVE UNIT TYPE) WHITE  
 \* ROUTE MARKERS SHALL BE OF REFLECTIVE SHEETING TYPE MOUNTED AS SEPARATE AND COMPLETE UNIT USING TYPE F REFLECTIVE SHEETING (SILVER-WHITE GRADE B) WITH REVERSE SCREEN TRANSPARENT OVERLAY OF THE COLOR SHOWN ON THE PLANS.  
 DCBK DEMOUNTABLE COPY (OPAQUE TYPE) WITH ENAMEL PAINT (BLACK)  
 DCG DEMOUNTABLE COPY (OPAQUE TYPE) WITH ENAMEL PAINT (GREEN)

## MAINTENANCE OF TRAFFIC

TRAFFIC SHALL BE MAINTAINED ON THE EXISTING PAVEMENT WITHOUT INTERRUPTION DURING THE CONSTRUCTION OF THE WORK EXCEPT AS OTHERWISE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL SET UP AND OPERATE HIS EQUIPMENT IN SUCH A MANNER AS TO ENCR OACH UPON THE TRAVELED WIDTH OF THE PAVEMENT TO A MINIMUM EXTENT.

## IDENTIFICATION OF TRAFFIC SIGNS

IDENTIFICATION OF ALL TRAFFIC SIGNS IS BY CODE NUMBER. CODE NUMBERS REFER TO THE DESIGN BEARING THE SAME NUMBER, EXCEPT CODE NUMBERS PREFIXED BY THE LETTER "G" AND "S-G" SUCH AS: GB1, GD3, S-GC1, ETC. THESE CODE NUMBERS REFER TO THE DESIGN TITLED BY THE LETTERS ONLY SUCH AS: GB2 REFERS TO DESIGN GB, GH4 REFERS TO DESIGN GH, S-GC1 REFERS TO DESIGN S-GC, ETC.

## LOCATION OF SIGNS

THE LOCATIONS OF ALL TRAFFIC SIGNS AND DELINEATORS ARE SHOWN ON THE ROADWAY ALIGNMENT SHEETS.

## ORIENTATION OF SIGN FACES AND DELINEATORS

SIGNS AND DELINEATORS SHALL BE ERECTED SO THAT THE FACE OF THE SIGN OR DELINEATOR IS VERTICAL AND AT A RIGHT ANGLE TO THE CENTER OF THE LANE WHICH THE SIGN OR DELINEATOR SERVES. WHERE LANES DIVIDE AND ON SHARP HORIZONTAL CURVES, SIGN FACES AND DELINEATORS SHALL BE PLACED PERPENDICULAR TO THE TANGENT POINT OF THE CURVE AT THE STATION LOCATION SO AS TO BE MOST EFFECTIVE BOTH DAY AND NIGHT.

## ALPHABET AND LETTER SPACING

SIGN LETTERING, WHEN INDICATED ON THE PLANS AS "INTERSTATE" SHALL BE DESIGNED IN ACCORDANCE WITH "THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS MANUAL" FOR SIGNING OF INTERSTATE HIGHWAYS ADOPTED FEBRUARY 10, 1958.

SIGN LETTERING, WHEN INDICATED ON THE PLANS AS A SERIES TYPE SUCH AS SERIES D, SERIES E, ETC. SHALL BE DESIGNED IN ACCORDANCE WITH THE "STANDARD ALPHABETS FOR HIGHWAY SIGNS OF THE BUREAU OF PUBLIC ROADS" THE SPACING BETWEEN LETTERS IS INDICATED IN THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND IS TO BE INCREASED OR DECREASED PROPORTIONALLY SO THAT THE LEGEND OCCUPIES THE DIMENSION INDICATED ON THE PLANS.

DESIGNS SHOWING CROSS-HATCHED AREAS INDICATE THAT THE LEGEND THEREIN WILL VARY IN ACCORDANCE WITH THAT SHOWN ON THE ROADWAY ALIGNMENT SHEETS.

COPIES OF THE ABOVE REFERENCES ARE ON FILE IN THE OFFICE OF THE DEPT. OF HIGHWAYS BUREAU OF TRAFFIC, 450 E. TOWN ST., COLUMBUS, OHIO.

## ARROWS

ARROWS SHOWN ON DESIGN DRAWINGS IDENTIFIED AS A-1, A-2, OR A-3 REFER TO THE ARROW DESIGNS SHOWN ON SHEET NO. 53.

## CORNERS

SIGNS CONSISTING OF SECTIONAL SHEETS SHALL BE FABRICATED WITH ROUND CORNERS WITH THE OUTLINE OR BORDER ROUNDED AS SHOWN ON THE DESIGN DRAWINGS, WITH THE EXCEPTION OF SIGN N-3-270. SEE SHEET 40  
 SIGNS FABRICATED FROM SHEET METAL SHALL HAVE ROUNDED CORNERS AND ROUNDED BORDERS AS SHOWN IN THE DESIGN DRAWINGS.

## DIMENSIONS

DIMENSIONS OF SIGNS ARE INDICATED ON THE PLANS WITH THE HORIZONTAL DIMENSION SHOWN FIRST, THEN THE VERTICAL DIMENSION.

## DRIVE POSTS

DRIVE POSTS SHALL BE AS SPECIFIED IN M-107.18 EXCEPT THAT THE 3 POUNDS PER FOOT POST MAY HAVE A AND B DIMENSIONS OF 1 3/4" AND 3 1/2" RESPECTIVELY.