

NOTE: NEGATIVE
NUMBERS ARE
DESIGNATED BY A
MINUS (-) SIGN
PRECEDING THE FIRST
SIGNIFICANT DIGIT
OF THE FIELD.

MUST CONTAIN THOSE
PORTIONS OF BRIDGE
FOR WHICH A
SOLUTION IS DESIRED

GEORGIA DEPARTMENT OF TRANSPORTATION
BRIDGE DESIGN OFFICE
METRIC BRIDGE GEOMETRY
CURVE ORIGIN IS ON THIS SIDE, S.E.

D.O.T. 498-D 9-20-91

DESCRIPTION
C.C. 2 3 4 5 6
CONST
START
FINIS

GEOMA2.DGN

PROBLEM IDENTIFICATION, PROJECT, COUNTY, DATE, BY, ETC.

WRITE "CONT" IN C.C. 77-80 WHEN AN
ADDITIONAL IDENT. CARD IS TO BE USED

PROG.	PROB. NO.	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
*B02																	
*																	

LOCATION DATA

LIMITING STATIONS		STATION OF REFERENCE POINT		REF ANGLE α		DIST. FR. ORIGIN X, Y, TO REFERENCE POINT
BACK	AHEAD			DEG.	MIN. SEC.	
12		22		32	35	41
						50

REQUIRED ONLY WHEN
CURVE 2 IS ON A TANGENT

HORIZONTAL CURVE DATA

CURVE NO. 1	CURVE NO. 2 (MUST CONTAIN THE REFERENCE POINT)	CURVE NO. 3
RADIUS	P.C. STATION **	RADIUS
10	20	28
		38

VERTICAL CURVE DATA **

ALWAYS DEFINED, ALL CASES (TYP.)

P.V.I. Z STA.	P.V.I. 1 STA.	P.V.I. 2 STA.
12	20	22 24 28

ELEV. P.V.I. Z	% GRADE Z-1	L.V.C. 1	% GRADE 1-2	L.V.C. 2	% GRADE 2-3
10	19	26	35	42	50

** MAY BE WITHIN
OR OUTSIDE OF
LIMITING STATIONS

CROWN AND LANE DEFINITIONS

CROWN CODE	ΔR TO BEGIN INSIDE S.E.	DIST. FROM CROWN TO R/L GUTTER	ΔR FROM M TO CROWN	DIST. FROM CROWN TO CONTROL PT.	DROP (INCHES) FROM CROWN TO CONTROL PT.	ΔR TO BEGIN OUTSIDE S.E.	ΔR 'S FROM M TO OUTSIDE LANES				
		S.R.1	ΔR 'S FROM M TO INSIDE LANES	S.R.2	S.R.3		S.R.4	OUTSIDE PIVOT	S.R.5	S.R.6	
5	5	13	21	29	37	45	52	59	66	73	79

USE THIS FORMAT TO DEFINE A PARABOLIC CROWN.

USE THIS FORMAT TO DEFINE SUPERELEVATED LANES.

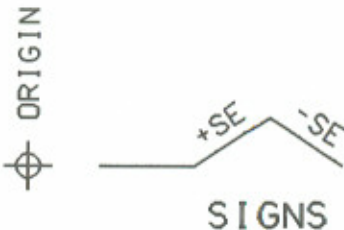
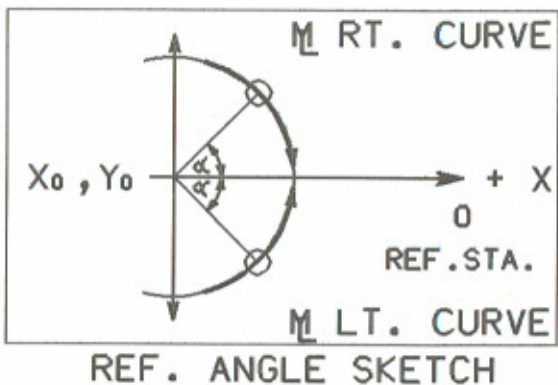
WRITE "LVL" IF CROWN CORRECTION IS TO BE IGNORED.
WRITE "PAR" FOR PARABOLIC CROWN.
IGNORE FOR SUPERELEVATED LANES.

SUPERELEVATION DATA (MAX. OF 10)

NOTE: THE PROGRAM WILL NOT
RECOGNIZE A STATIONING "EQUALITY"

DESCRIPTION	AT STATION **	S.E.1	S.E.2	S.E.3	S.E.4	S.E.5	S.E.6
6	7	17	23	29	35	41	47
6							52
6							
6							
6							
6							

GIVE SUPERELEVATION IN PERCENT



METRIC BRIDGE GEOMETRY-SPAN TYPE TRANSVERSE LINE DATA

NUMBER OF "T" LINES THIS SPAN
SPAN NO.

WRITE "LAST" IF LAST SPAN

WRITE "YES" IF LONGITUDINAL LINE DATA
FOR SUBSEQUENT SPANS IS TO BE GIVEN

REMARKS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
8 SPAN																													

BENT CODE TYPES
C.C. 5 6 7 8
SKEW
PARL
PSTA
SAME (B ONLY)
PREV (A ONLY)

USE DIGIT 1 FOR
RLG INT. CODE

STATION OF BENT

SKEW ANGLE OF BENT

STATION OF BENT "PSTA"
NORMAL DIST. IF PARL

REMARKS

LONGITUDINAL LINE SKIPS - USE DIGIT 1

BENT NO.	TYPE CODE	STATION OF REFERENCE LINE	SKEW ANGLE OF REFERENCE LINE	STA. OF BENT "PSTA" NORMAL DIST. IF PARL	REMARKS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
B						50	51			55					60					65					70					75					80

STA. OF BENT IF "PREV"

OR

NORMAL DIST. IF "PREV"

A																																				
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

REFERENCE BENT

LINE NO.

FIRST CODE

SECOND CODE

*STATION OR NORMAL OR DISTANCE OR PROPORTION OR X COORDINATE

REFER. LINE

ANGLE OR SKEW ANGLE OR DIST. OR PROPORTION OR Y COORDINATE

REFER. LINE

REFERENCE BENT

USE DIGIT 1 FOR RLG INT. CODE

REMARKS

LONGITUDINAL LINE SKIPS - USE DIGIT 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30							
T01																																				
T02																																				
T03																																				
T04																																				
T05																																				
T06																																				
T07																																				
T08																																				
T09																																				
T10																																				
T11																																				

* STATION MUST BE ON THE M (CONTROL LINE)

METRIC BRIDGE GEOMETRY-LONGITUDINAL LINES

THE LAST CODE
GIVEN MUST BE
"END"

Δ R FROM M IF
COS,CTP,ARC,CRD,STP. REF
LINE IF RLG,PAR,PIB,PIA

IGNORE EXCEPT FOR STP, CTP & COS
M CONTROL STA.

TAPER RATE IF CTP.
STP. RADIUS IF COS.

USE THIS FORMAT FOR RLG, ARC, CRD, STP, CTP, PAR, PIA, COS, PIB CODES.

USE THIS FORMAT FOR COR CODE.

SEQ. NO.	TYPE CODE	REF. CALL	POINT 1 X-COORDINATE	POINT 1 Y-COORDINATE	POINT 2 X-COORDINATE	POINT 2 Y-COORDINATE	REMARKS
70,1							
70,2							
70,3							
70,4							
70,5							
70,6							
70,7							
70,8							
70,9							
71,0							
71,1							
71,2							
71,3							
71,4							
71,5							
71,6							
71,7							
71,8							
71,9							
72,0							
72,1							
72,2							
72,3							
72,4							
72,5							
72,6							
72,7							
72,8							
72,9							
73,0							
73,1							

REQUIRED FOR RLG, PAR, PIB, AND PIA CODES.

TAPER RATES ARE IN FEET PER HUNDRED FEET.