

STATE OF MINNESOTA
DEPARTMENT OF HIGHWAYS

CONSTRUCTION PLAN FOR GRADING, CONC. CURB & GUTTER, BITUMINOUS BASE & BITUMINOUS SURFACING

COUNTY HIGHWAY NO. 102

BETWEEN CO. RD. 102 AND T.H. 47

From ^{APT. 27 E} OF THE W. 1/4 COR. SEC. 26 T. 30 R. 24 To ^{APT. 144 E} OF THE W. 1/4 COR. SEC. 26 T. 30 R. 24

GROSS LENGTH.....1.44..... FEET.....0.216..... MILES
BRIDGES LENGTH.....0.0..... FEET.....0.0..... MILES
EXCEPTIONS LENGTH.....0.0..... FEET.....0.0..... MILES
NET LENGTH.....1.44..... FEET.....0.216..... MILES

Plan 1 inch = 50 Feet
PROFILE: Horiz. 1 inch = 50 Feet, Vert. 1 inch = 5 Feet
WORKING PLANS: Horiz. 1 inch = 50 Feet, Vert. 1 inch = 5 Feet, Cross-Section, 1 inch = 10 FEET
LAYOUT: Scale 1 inch = Feet

MINN. PROJ. _____

INDEX OF SHEETS

Sheet No. 1.	Title Sheet & Layout Map
" No. 2.	Est. Quantities & Typical Sec.
" No. 3.	Plan & Profile
" No. 4 To 6	Cross Sections

DESIGN DATA

A.D.T. (CURRENT YEAR) 1180
A.D.T. (20 YEAR PROJECTION) 2715
SOIL FACTOR 50 %
STRUCTURAL DESIGN 9 TON
H.C.A.D.T. (PROJ) 300-600

DESIGN SPEED

50 MPH. (LOCALLY RESTRICTED TO 30 M.P.H.)

ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITH, IN THE CONSTRUCTION OF THIS PROJECT.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Erly J. Lundheim COUNTY ENGINEER DATE April 24, 1967

ANOKA COUNTY REG. NO. 2551

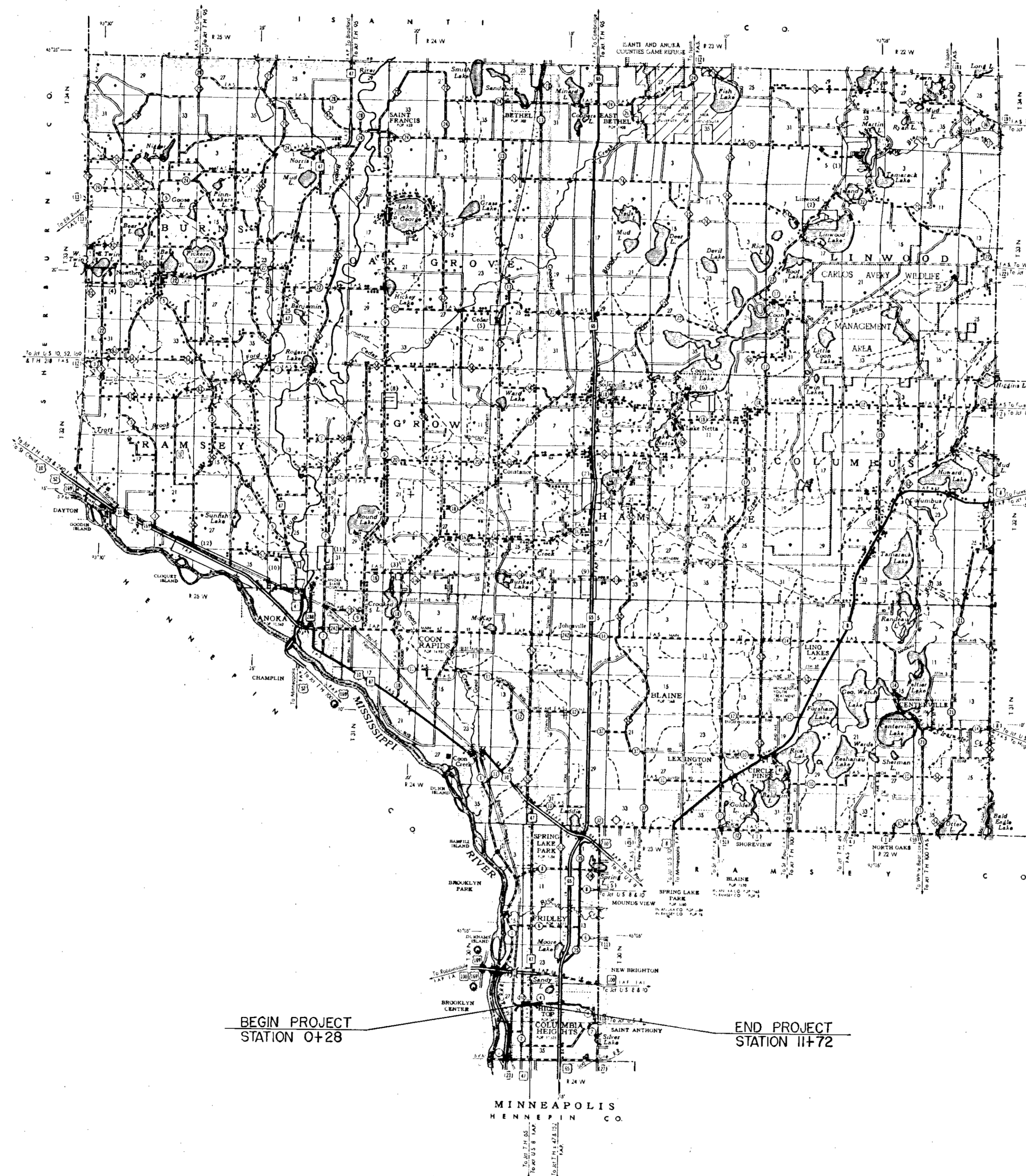
RECOMMENDED FOR APPROVAL _____ DISTRICT ENGINEER 19__

RECOMMENDED FOR APPROVAL _____ DISTRICT ENGINEER 19__

APPROVED _____ 19__ STATE AID ENGINEER

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

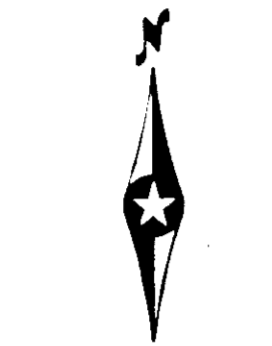
DISTRICT ENGINEER DATE



CONVENTIONAL SIGNS

STATE LINE	TIMBER
COUNTY LINE	BRUSH
TOWNSHIP OR RANGE LINE	ORCHARD
SECTION LINE	ROCK LEDGE
QUARTER LINE	SAND
SIXTYFOURTH LINE	EDGE OF CUT
RIGHT-OF-WAY LINE	TOE OF EMBANKMENT
PRESENT ROAD W/4 LINE	CATCH BASIN
LIMITED ACCESS	MANHOLE
PROPERTY LINE (Large Line Line)	DROP INLET
VACATED PLATTED PROPERTY	FIRE HYDRANT
CORPORATE OR CITY LIMITS	ASC LAMP
TRUNK HIGHWAY CENTER LINE	OTHER LAMP (SHOW #)
RETAINING WALL	RAILROAD CROSSING SIGN
STEAM RAILROAD	RAILROAD CROSSING BELL
ELECTRIC RAILROAD	ELECTRIC CROSSING SIGN
RAILROAD RIGHT-OF-WAY LINE	CROSSING GATE
CREEK	CATTLE GUARD
RAPIDS OR WATERFALL	OVERHEAD (Highway Over)
DRY RUN	UNDERPASS (Highway Under)
GRASSY DITCH	ABUTMENT, WALL & PIER
HIGH TENSION LINE	BRIDGE
POWER POLE LINE	OUTCROFT
TELEPHONE OR TELEGRAPH LINE	BUILDING (One Story Frame)
TELEPHONE CONDUIT	CONCRETE 8" STONE T. FILE 8 BRICK 11" STUCCO
WIRE FENCE	HEDGE
RAILROAD SNOW FENCE	IRON PIPE
BOARD OR HIGHWAY SNOW FENCE	STONE MONUMENT
STONE WALL OR FENCE	WOOD STAKE OR HUB
WATER PIPE	MEANDER CORNER
SEWER PIPE	
DRAIN TILE	
GRAVEL PIT	
SAND PIT	
CLAY PIT	
SOCK QUARRY	
SPRINGS	
WASH	

NOTE: SECTION NUMBERS READ FROM THE SOUTH



SPECIFICATIONS

THE "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION", DATED JAN. 1, 1964, AS AMENDED BY "SUPPLEMENTAL SPECIFICATIONS" DATED FEBRUARY 1, 1966 SHALL GOVERN.

Minn. Project No. _____ Project No. C.P. 67-12-102

ANOKA County, Minnesota. County Proj. No. _____ Plan No. _____ Sheet 1 of 6 Sheets

STATEMENT OF ESTIMATED QUANTITIES

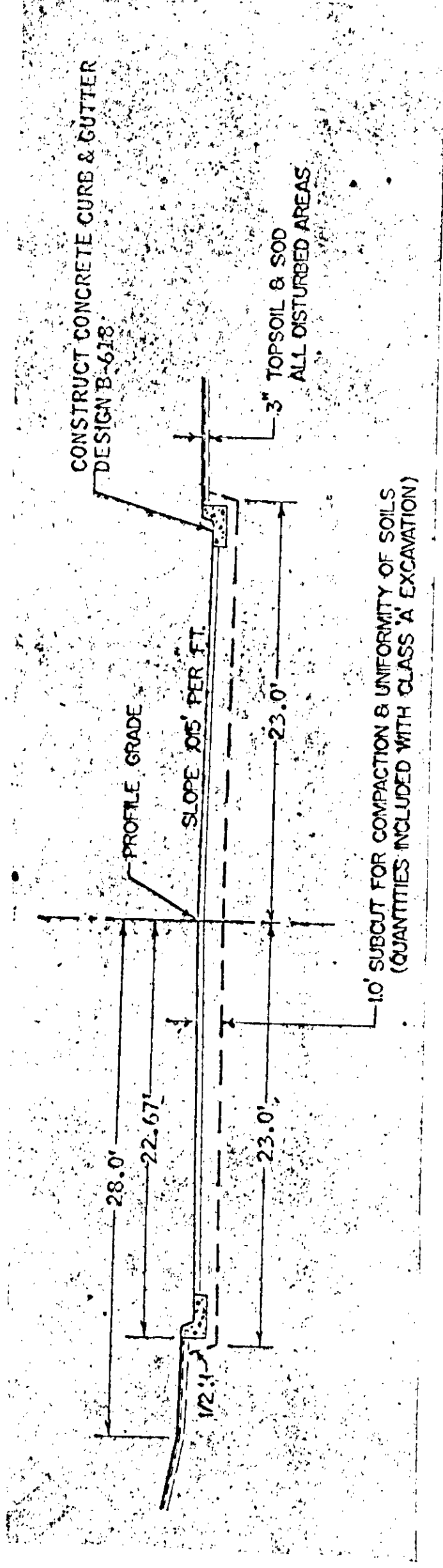
ITEM NO.	ITEM	UNIT	TOTAL ESTIMATED QUANTITIES
2101.502	CLEARING	TREE	9
2101.507	GRUBBING	TREE	9
2104.502	REMOVE PAVEMENT	SQ. YD.	55
2104.504	REMOVE CURB	LIN. FT.	52
2106.504	REMOVE SIDEWALK	SQ. YD.	3
2106.510	REMOVE FENCE	LIN. FT.	10
2106.520	RESET FENCE	LIN. FT.	5
2106.518	REMOVE BIT. PAVEMENT SURFACING	SQ. YD.	85
2105.507	CLASS "A" EXCAVATION	SQ. YD.	1,890
2105.510	TOP SOIL COVERING	CU. YD. (V.M.)	140
2105.524	SALVAGED BIT. MIXTURE ON ROAD	CU. YD. (V.M.)	700
2100.501	WATER	M-GAL.	20
2207.503	BIT. MATERIAL FOR MIXTURE	GAL.	17,490
2207.505	BIT. MATERIAL FOR FOG	GAL.	585
2207.512	BIT. STABILIZED SUBGRADE 6" THICK	SQ. YD.	5,830
2231.504	BIT. MATERIAL FOR MIXTURE	TON	0.5
2231.518	BIT. MIXTURE FOR DRIVEWAY REPLT.	TON	3.0
2247.502	BIT. MATERIAL FOR JACK COAT	GAL.	300
2241.504	BIT. MATERIAL FOR MIXTURE	TON	4.8
2241.509	WEARING COURSE MIXTURE & FILLER	TON	480
2241.510	BINDER COURSE MIXTURE	TON	480
204.585	ADJ. WATER GATE HOUSING	HOUSING	4
2606.522	ADJ. FRAME & RING CASTINGS	ASSEMBLY	17
2531.501	CONC. C.86. DESIGN B-618	LIN. FT.	2,200
2531.507	CONC. DRIVEWAY PAVEMENT 6" THICK	SQ. YD.	48
2576.501	SODDING	SQ. YD.	1,275

(1) FOR REMOVAL OF CONCRETE DRIVEWAYS THAT EXTEND BEYOND PLANNED CURB & GUTTER.
 (2) FOR REMOVAL OF BITUMINOUS DRIVEWAYS THAT EXTEND BEYOND PLANNED CURB & GUTTER.
 (3) FOR REPLACEMENT OF BITUMINOUS IN DRIVEWAYS.
 (4) FOR REPLACEMENT OF CONCRETE IN DRIVEWAYS.

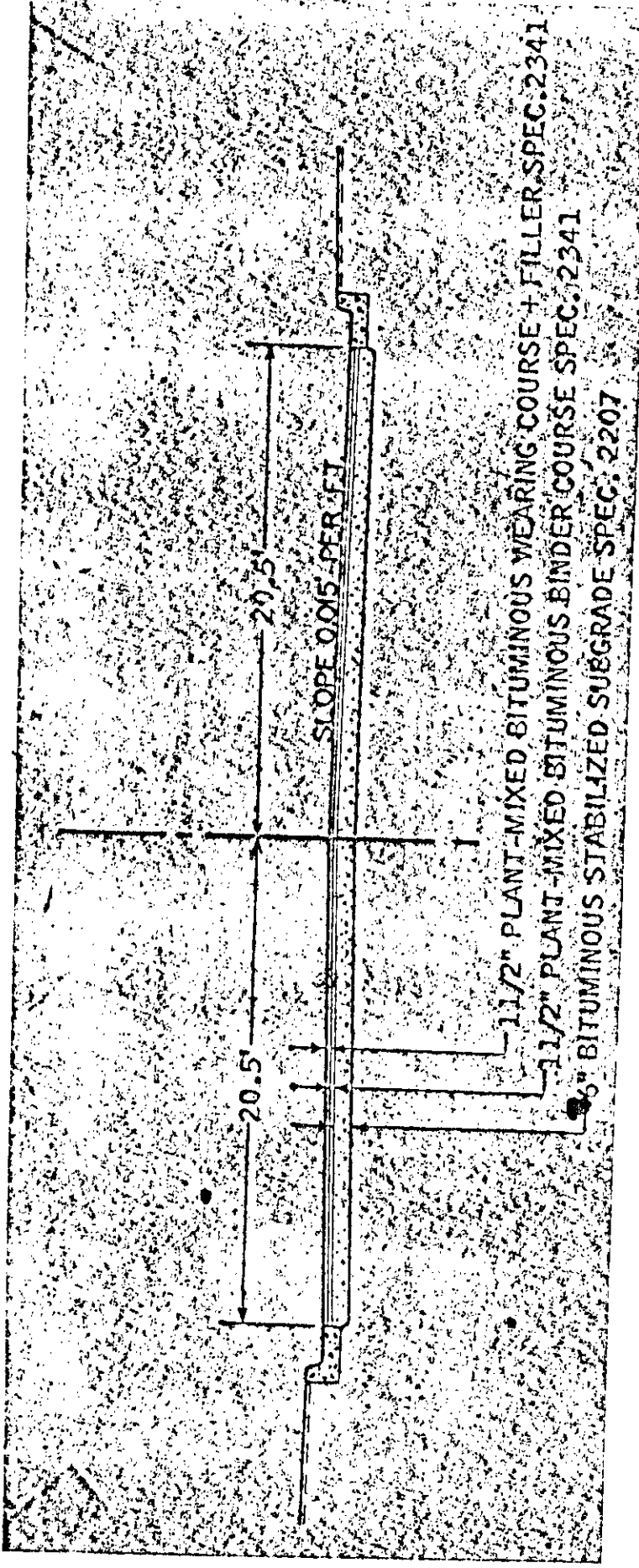
Form 2106 - 10-58
 The following Standard Detail plates, approved by the Bureau of Public Roads, shall apply on this project.

PLATE NO.	DESCRIPTION
21100-D	CONCRETE CURB & GUTTER DESIGN B-618
21110-E	CURB & GUTTER CONSTRUCTION AT CATCH BASIN
21110-D	INSTALLATION OF CATCH BASIN CASTINGS
28000-C	STANDARD BARRICADES

TYPICAL GRADING SECTIONS



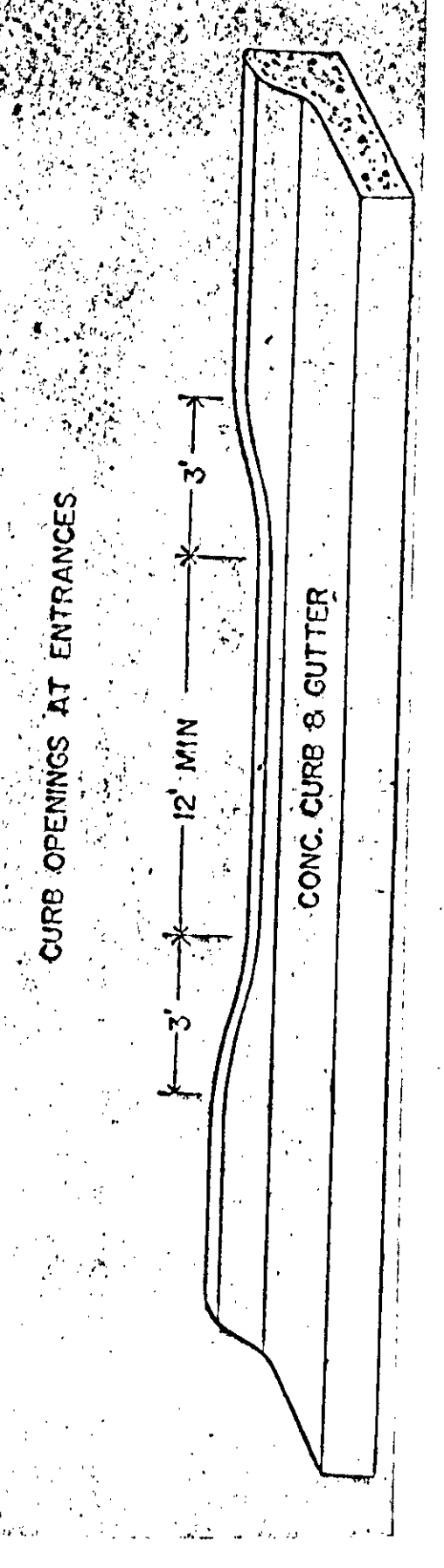
TYPICAL BASE & SURFACE SECTIONS



NOTE: ALL DIMENSIONS SHOWN ON TYPICAL SECTIONS ARE NOMINAL.

SPECIAL DETAILS

EXCESS CLASS A EXCAVATION, APPROXIMATELY 455 CU. YD., SHALL BE DISPOSED OF BY THE CONTRACTOR AT LOCATION SELECTED BY HIM.



STATION	LOCATION
0+30	131 RT.
6+47	331 RT.
6+53	21 RT.
9+80	132 RT.

ITEM	STATION	LOCATION
M.H. 0475	11 RT.	
M.H. 2152	CENT. LINE	
C.B. 6+27	21 RT.	
C.B. 6+29	21 RT.	
C.B. 6+49	43 RT.	
M.H. 6+65	CENT. LINE	
M.H. 6+81	24 RT.	
C.B. 6+82	43 RT.	
M.H. 8+23	26 RT.	
C.B. 9+55	20 RT.	
C.B. 9+57	21 RT.	
M.H. 9+92	1 RT.	
M.H. 9+98	CENT. LINE	
C.B. 10+16	45 RT.	
C.B. 10+39	20 RT.	
C.B. 10+39	20 RT.	

BASIS OF PLANNED QUANTITIES

2207	BITUMINOUS STABILIZED SUBGRADE
	BITUMINOUS MATERIAL FOR MIX 0.5 GAL. PER SQ. YD. PER INCH THICKNESS
	BITUMINOUS MATERIAL FOR FOG 0.20 GAL. PER SQ. YD.
2341	PLANT-MIXED BITUMINOUS BINDER COURSE
	BITUMINOUS MIXTURE 7.65 CBS. PER SQ. YD.
	BITUMINOUS MATERIAL 5.5% OF MIXTURE BY WT.
2341	PLANT-MIXED BITUMINOUS WEARING COURSE
	BITUMINOUS MIXTURE 14.6 LBS. PER SQ. YD.
	BITUMINOUS MATERIAL FOR JACK COAT 0.05 GAL. PER SQ. YD.
	BITUMINOUS MATERIAL 5.5% OF MIXTURE BY WT.

