

STATE OF MINNESOTA  
DEPARTMENT OF HIGHWAYS  
CONSTRUCTION PLAN FOR GRADING, CURB & GUTTER, BIT BASE & BIT MAT.

County State Aid Highway No. 7

BETWEEN US<sup>10</sup> AND TH<sup>242</sup>

From 951' SO. OF W/4 SEC 7, T31N R24W To NW COR SEC 7, T31N R24W

GROSS LENGTH	3619.4	FEET	0.69	MILES
BRIDGES LENGTH	0	FEET	0	MILES
EXCEPTIONS LENGTH	0	FEET	0	MILES
NET LENGTH	3619.4	FEET	0.69	MILES

Plan 1 inch = 200 Feet  
PROFILE: Horiz. 1 inch = 50 Feet Vert. 1 inch = 5 Feet  
WORKING PLANS: Horiz. 1 inch = 100 Feet Vert. 1 inch = 10 Feet  
Cross Section 1 inch = 10 FEET  
LAYOUT  
Scale 1 inch = 50 Feet

MINN. PROJ. \_\_\_\_\_

INDEX OF SHEETS

Sheet No. 1	Title Sheet & Layout Map
No. 2	Est. Quantities & Typical Sec.
No. 3 To 4	Plan & Profile
No. 5 To 7	Cross Sections

DESIGN SPEED  
50 M.P.H.  
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.

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

*Edgar C. Pearson* DATE *March 4, 1963*  
ANOKA COUNTY REG. NO. 2551  
RECOMMENDED FOR APPROVAL *Edgar C. Pearson* 3-6 1963 DISTRICT ENGINEER  
RECOMMENDED FOR APPROVAL *J. H. McMillan* 3/8 1963  
APPROVED *J. H. McMillan* 3-8 1963 STATE ENGINEER

DEPARTMENT OF COMMERCE  
BUREAU OF PUBLIC ROADS  
DISTRICT ENGINEER DATE

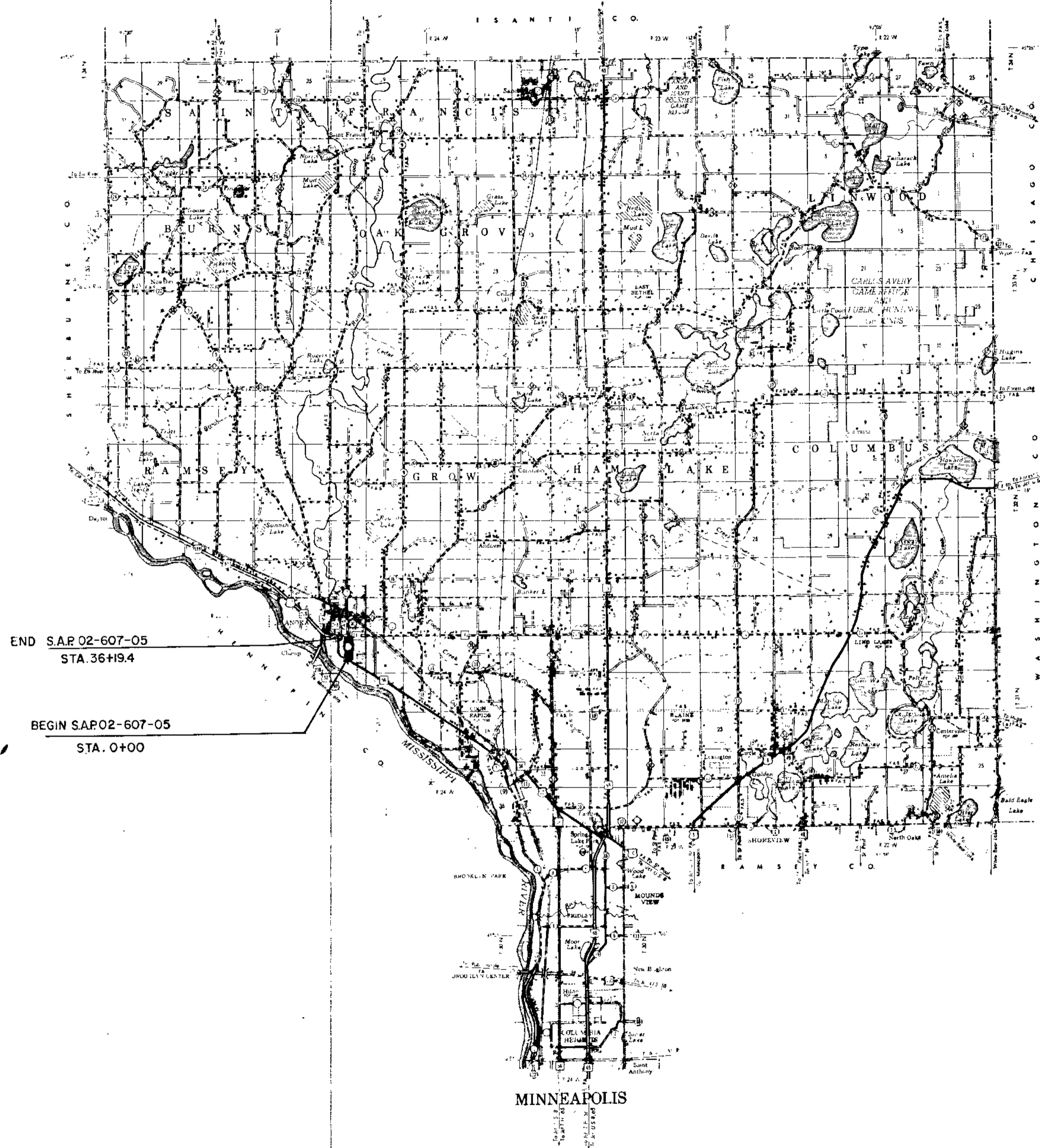
MICRO-FILMED

Minn. Project No. \_\_\_\_\_ State Project No. \_\_\_\_\_

ANOKA County, Minnesota. County Proj. No. \_\_\_\_\_ Plan No. \_\_\_\_\_ Sheet 1 of 7 Sheets

CONVENTIONAL SIGNS

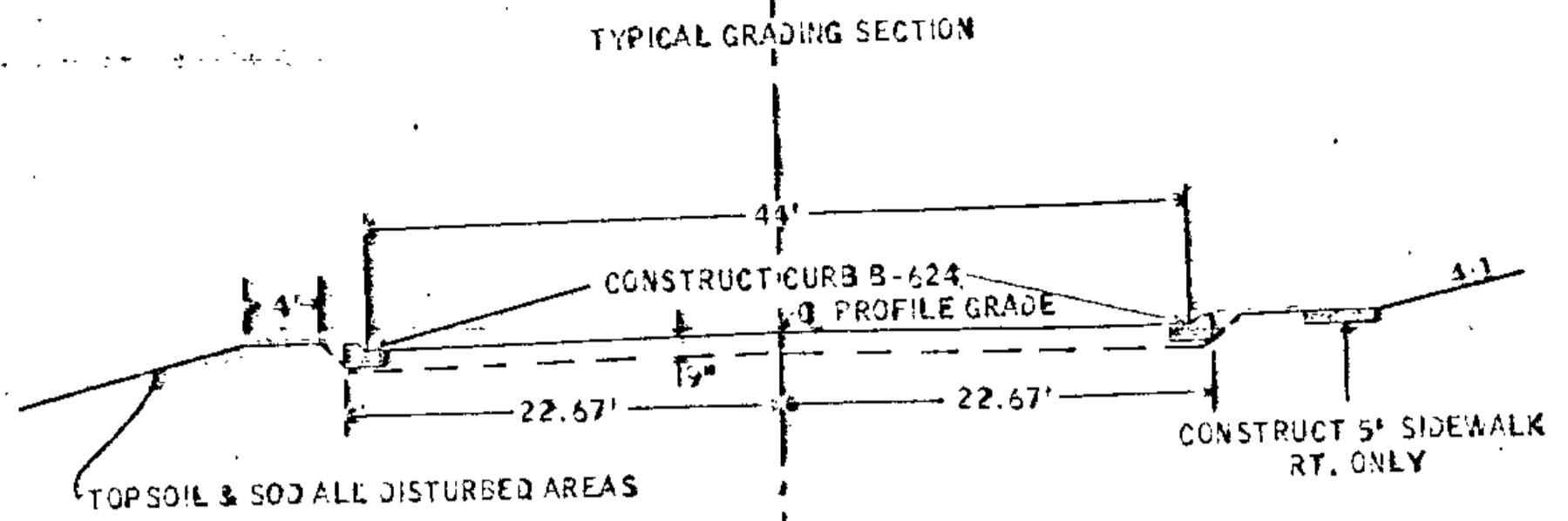
STATE LINE	.....	WATER	.....
COUNTY LINE	.....	BRUSH	.....
TOWNSHIP OR RANGE LINE	.....	ORCHARD	.....
SECTION LINE	.....	ROCK LEDGE	.....
QUARTER LINE	.....	SAND	.....
SIXTEENTH LINE	.....	LOSS OF CUT	.....
RIGHT OF WAY LINE	.....	TOP OF EMBANKMENT	.....
PRESENT ROAD PAV. LINE	.....	CATCH BASIN	.....
LIMITED ACCESS	.....	MANHOLE	.....
PROPERTY LINE (Lump and Flag)	.....	DEEP WET	.....
HATCHED PLATED PROPERTY	.....	FIRE HYDRANT	.....
CORNER OR CITY LIMITS	.....	RAILROAD CROSSING	.....
TRUNK HIGHWAY CENTER LINE	.....	RAILROAD CROSSING BEAR	.....
RETAINING WALL	.....	ELECTRIC WIRE W/ SIGN	.....
STEAM RAILROAD	.....	CROSSING DATE	.....
ELECTRIC RAILROAD	.....	RAILROAD CROSSING	.....
RAILROAD & R/W OF R/W LINE	.....	RAILROAD CROSSING	.....
GREEN	.....	RAILROAD CROSSING	.....
RAILROAD ON WATERFALL	.....	RAILROAD CROSSING	.....
DRY RUN	.....	RAILROAD CROSSING	.....
DRAINAGE DITCH	.....	RAILROAD CROSSING	.....
HIGH TENSION LINE	.....	RAILROAD CROSSING	.....
POWER POLE LINE	.....	RAILROAD CROSSING	.....
TELEPHONE OR TELEGRAPH LINE	.....	RAILROAD CROSSING	.....
TELEPHONE CONDUIT	.....	RAILROAD CROSSING	.....
RAMP	.....	RAILROAD CROSSING	.....
WIRE FENCE	.....	RAILROAD CROSSING	.....
RAILROAD SHOW FENCE	.....	RAILROAD CROSSING	.....
BOARD OR HIGHWAY SHOW FENCE	.....	RAILROAD CROSSING	.....
STONE WALL OR FENCE	.....	RAILROAD CROSSING	.....
WATER PIPE	.....	RAILROAD CROSSING	.....
SEWER PIPE	.....	RAILROAD CROSSING	.....
DRAIN PIPE	.....	RAILROAD CROSSING	.....
GRAVEL PIT	.....	RAILROAD CROSSING	.....
SAND PIT	.....	RAILROAD CROSSING	.....
CLAY PIT	.....	RAILROAD CROSSING	.....
ROCK BARBER	.....	RAILROAD CROSSING	.....
BRUNNEN	.....	RAILROAD CROSSING	.....
WATER	.....	RAILROAD CROSSING	.....



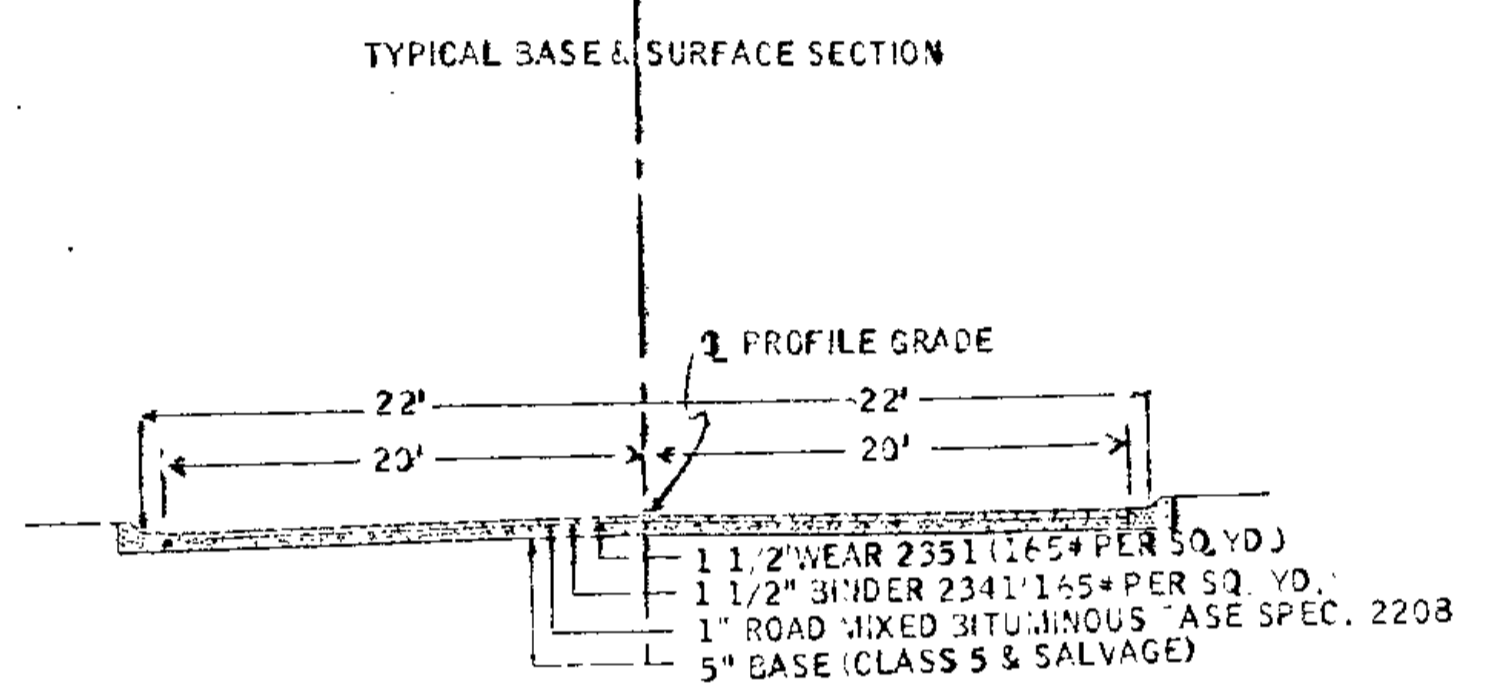
— SPECIFICATIONS —  
THE "SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" DATED MAY 1, 1959, AND SUBMITTED FOR APPROVAL BY THE DIVISION ENGINEER OF THE BUREAU OF PUBLIC ROADS ON MARCH 26, 1959, SHALL GOVERN.

STATEMENT OF ESTIMATED QUANTITIES

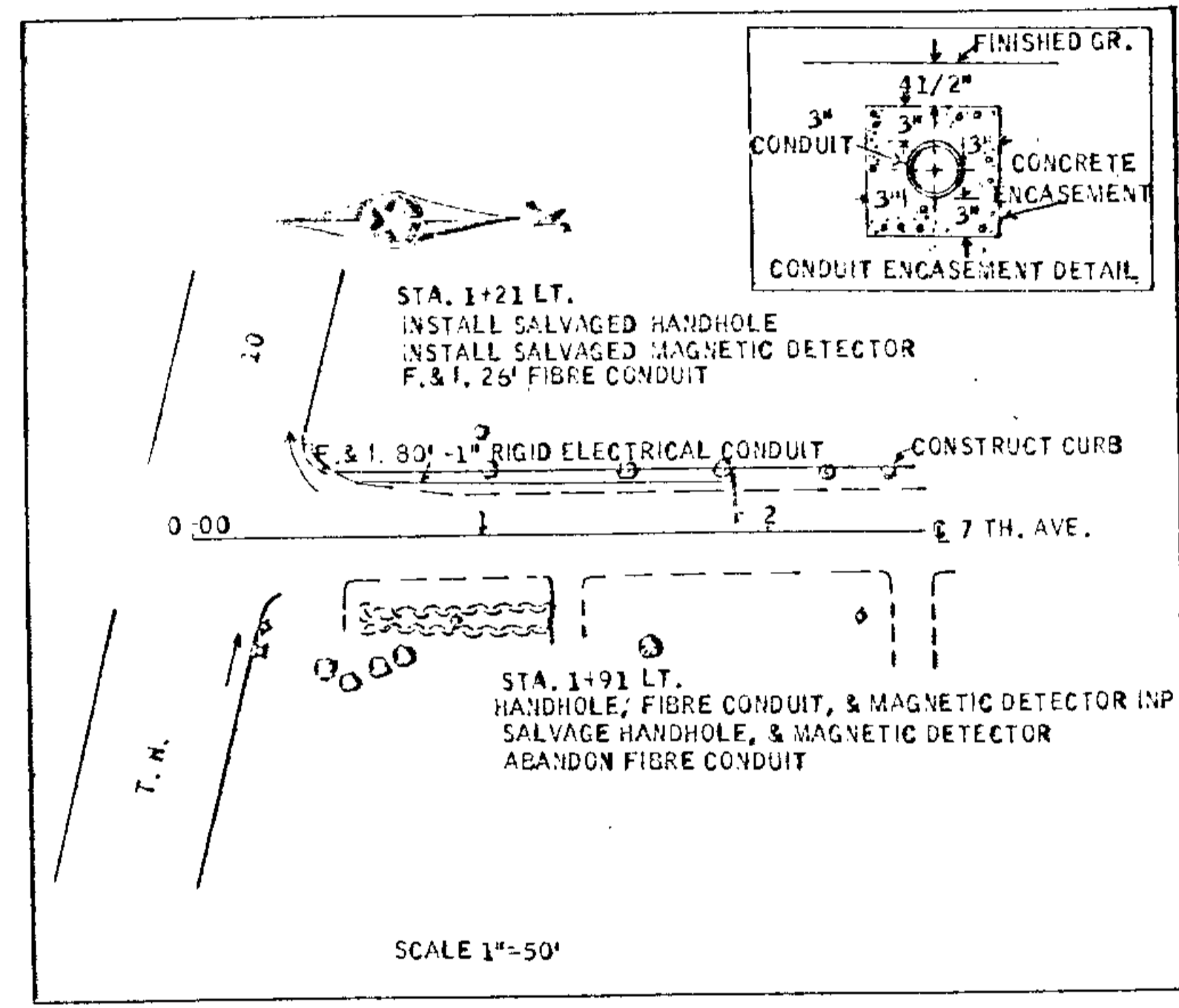
ITEM NO.	ITEM	UNIT	S.P. QUANTITIES		S.F. QUANTITIES		TOTAL ESTIMATED QUANTITIES	TOTAL FINAL QUANTITIES
			EST.	FINAL	EST.	FINAL		
2101.501	CLEARING	ACRE					0.10	
2101.502	CLEARING	TREE					52	
2101.506	GRUBBING	ACRE					0.10	
2101.507	GRUBBING	TREE					56	
2104.502	REMOVE PAVEMENT	SQ. YD.					222	
2104.503	REMOVE CURB	LIN. FT.					2803	
2104.506	REMOVE SIDEWALK	SQ. YD.					189	
2104.510	REMOVE FENCE	LIN. FT.					434	
2105.501	CLASS "A" EXCAVATION	CU. YD.					6,422	
2105.510	TOP SOIL COVERING	CU. YD. (V.M.)					1,288	
2105.514	SALVAGE BIT. MIX ON ROAD	CU. YD. (V.M.)					1,773	
2133	WATER	GA-GAL					34	
2202.526	GRAVEL BASE INP. (CL. 5)	TON					1,617	
2208.503	BIT. MATL MIX	GAL.					9,849	
2208.506	AGGREGATE	TON					821	
2341.502	BIT. MATL. TACK	GAL.					821	
2341.504	BIT. MATL. MIX	TON					139	
2341.511	BIT. MATL. (BINDER)	TON					1354	
2351.511	BIT. MATL. WEAR	TON					1354	
2503.512-12	F. & I. R.C.P. SEWER CL. 2 (12")	LIN. FT.					12	
2503.512-18	F. & I. R.C.P. SEWER CL. 2 (18")	LIN. FT.					211	
2506.506	CONSTRUCT C.B. (A OR F.)	LIN. FT.					13.6	
2506.506	CONSTRUCT C.B. (C OR G.)	LIN. FT.					20.0	
2576.501	SODDING	SQ. YD.					5155	
2506.522	ADJUST FRAME & RING CASTING	ASSEA.					5	
2506.516	F. & I. CASTING ASSEMBLY	ASSEA.					5	
2506.521	INSTALL CASTINGS	ASSEA.					2	
2521.501	CONCRETE WALK 4" THICK	SQ. FT.					15,185	
2521.501	CONCRETE WALK 6" THICK	SQ. FT.					2,850	
2531.501	CONCRETE CURB & GUTTER DESIGN B-624	LIN. FT.					7,200	
2506.511	RECONSTRUCT MAN HOLES	LIN. FT.					9.9	
504.685	ADJUST WATER GATE HOUSING	ASSEA.					14	
566.672	RELOCATE TRAFFIC SIGNAL STANDARD	STANDARD					2	
565.686	RELOCATE MAGNETIC DETECTOR	SIG. SYSTEM					1	



EXCESS CLASS "A" EXCAVATION (APPROX. 3,764 CU. YDS.) TO BE DESPOSED OF ON CITY OWNED LOTS 400' EAST OF 7TH. AVE. ON SOUTH STREET  
NOTE: ALL DIMENSIONS & SLOPES SHOWN ON TYPICAL SECTIONS ARE APPROXIMATE ONLY



BASIS FOR PLANNED QUANTITIES  
GRAVEL BASE 135# PER CU. FT. COMPACTED  
ROAD MIXED BITUMINOUS BASE  
BITUMINOUS MATERIAL FOR MIXTURE 0.60 GAL. PER 100# AGG.  
AGGREGATE 100# PER SQ. YD. PER 1" DEPTH  
PLANT MIXED BITUMINOUS SURFACE  
BITUMINOUS MATERIAL FOR TACK COAT 0.05 GAL. PER SQ. YD.  
BITUMINOUS MATERIAL FOR MIXTURE 4.5% FOR BINDER 5.5% FOR WEARING  
BITUMINOUS MIXTURE FOR BINDER & WEARING COURSE 165# PER SQ. YD.  
PRESENT SURFACE MATERIAL TO BE USED AS A PORTION OF BASE.  
NOTE: ESTIMATE INCLUDES QUANTITIES FOR APPROACHES & STREET INTERSECTIONS



- ALL CURBS TO BE REMOVED TO 33 FEET FROM CENTER.
- ALL SIDEWALK & DRIVEWAY SLABS TO BE REMOVED TO 33 FEET.
- PLACE ON SLOPES BEFORE SOD (NO SUITABLE MATERIAL ON PROJ.)
- SOD TO BE PLACED AT DIRECTION OF ENGINEER BETWEEN JOB LIMITS
- THIS TO INCLUDE NECESSARY CHANGES IN ELECTRICAL SYSTEM LEADING TO AND FROM SIGNAL

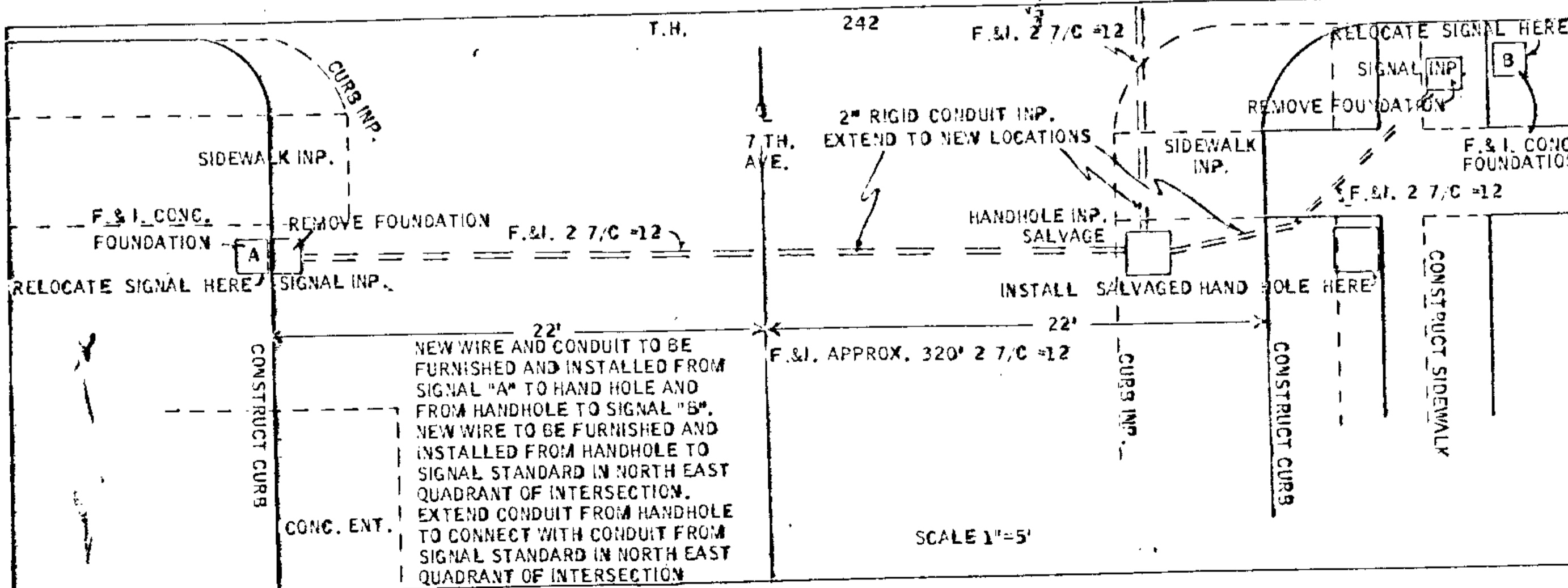
M.H. OR C.B.	CASTING	GRATE	CURB BOX DESIGN	TOP GR. F.L. ELEV.	F.L. ELEV.
1	4126-B	4149-B	4161-B A OR F	873.65	860.00
2	4126-B	4149-B	4161-B C OR G	873.30	868.40
3	4126-B	4149-B	4161-B C OR G	873.30	868.40
4	Δ	Δ	Δ C OR G	878.40	873.50
5	Δ	Δ	Δ C OR G	878.40	873.50
6	4126-B	4149-B	4161-B C OR G	877.42	872.52

Δ CASTING, GRATE, CURB BOX FROM PRESENT CATCH BASIN TO BE INSTALLED ON NEW CATCH BASINS. CASTINGS 4101-A & COVER CASTINGS 4110-C TO BE INSTALLED ON PRESENT CATCH BASINS.

FORM 21166-10-58

The following Standard Detail plates, approved by the Bureau of Public Roads, shall apply on this project.

PLATE NO.	DESCRIPTION
4000E 4005E	
4002E 4006D	MANHOLES OR CATCH BASINS
4126B	CASTING
4149B	GRATE
4161C	CURB BOX
7035D	CURB RETURNS AT ENTRANCES
7100C	CONCRETE CURB & GUTTER DESIGN B-624
7200B	CONCRETE WALK
8003 & 8008A	STANDARD SIGNS & BARRICADES
8113	VEHICLE DETECTOR INSTALLATION
8112	CONCRETE FOUNDATIONS TYPE A.



DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 PLAN  
 SURVEYED, PLOTTED, CHECKED, REVISIONS  
 DATE: \_\_\_\_\_ BY: \_\_\_\_\_

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 PROFILE  
 SURVEYED, PLOTTED, CHECKED, REVISIONS  
 DATE: \_\_\_\_\_ BY: \_\_\_\_\_

