

CONVENTIONAL SIGNS

STATE LINE	---
COUNTY LINE	---
TWP. OR RANGE LINE	---
SECTION LINE	---
RIGHT OF WAY LINE	---
CORPORATE OR CITY LIMITS	---
ROAD CENTER LINE	---
RETAINING WALL	---
RAILROADS	---
CREEK	---
DRY RUN	---
DRAINAGE DITCH	---
POWER POLE LINE	---
TELEPHONE OR TELEGRAPH LINE	---
CULVERTS - PLAIN	---
WITH ENDWALLS	---
WITH WINGWALLS	---
DROP INLET	---
FENCE LINE	---
GRAVEL PIT	---
SAND PIT	---
CLAY PIT	---
ROCK QUARRY	---
SPRINGS	---
MARSH	---
BRUSH OR TIMBER	---
HEDGE	---
ROCK LEDGE	---
SAND	---
EDGE OF CUT	---
TOE OF EMBANKMENT	---
RAILROAD R/W LINE	---
BUILDING (One Story Frame)	---

ABBREVIATIONS

EXCAVATION	EXC.
EARTH	E.
LOOSE ROCK	LR.
SOLID ROCK	SR.
EMBANKMENT	F.
OVERHAUL	H.
SURFACING	S.
HAND DITCHING	HD.
SPECIAL EXCAVATION	SE.
SPECIAL FLOWING	SP.
GUARD RAIL	GR.
CORRUGATED METAL CULVERT	C.M.CULV.
SECTIONAL CONCRETE CULVERT	R.CULV.
SECTIONAL CONCRETE CULVERT (heavy type)	R.CULV.
TON MILES	T.M.
TELEPHONE POLE	TEL. P.
POWER POLE	P.P.
PLACE	P.
IN PLACE	INP.
REPLACE	REP.
RIGHT	RT.
LEFT	LT.
INTERSECTION ANGLE	Δ
RADIUS	R.
TANGENT	T.
LENGTH OF CURVE	L.
POINT OF CURVE	P.C.
POINT OF TANGENT	P.T.
POINT OF INTERSECTION	P.I.
VERTICAL CURVE	V.C.
BENCH MARK	B.M.
ELEVATION	EL.
ACRES	A.

STATE OF MINNESOTA
DEPARTMENT OF HIGHWAYS
Plan and Profile of County State Aid Highway No. 1

S.P. 02-601-02
 A POINT APPROX. 1294.3' W & 1704.8' NORTH A POINT APPROX. 1597.4 W & 1592.4 NORTH
From OF THE E. 1/4 COR. SEC. 22, T.30N., R.24 W. **To** OF THE S.E. COR. SEC. 26, T.31N., R.24 W.
Give proper reference to Sections, Township and Range

MINN. PROJ. S 6370 (2)

FROM A POINT APPROX. 1226.2'E. & 4514.4' S. OF E1/4 COR. SEC. 3, T.30N., R.24 W. TO A PT. APPROX. 1597.4' W. & 1592.4' N. OF S.E. COR. SEC. 26, T.31N., R.24 W.

GROSS LENGTH 26243.4 FEET 4.970 MILES
 LENGTH OF EXCEPTIONS 0.0 FEET 0.0 MILES
 NET LENGTH 26243.4 FEET 4.970 MILES

PLAN. 1 Inch = Feet.
 PROFILE. Horz. 1 Inch = 100 Feet. Vert. 1 Inch = 10 Feet
 WORKING PLANS Horz. 1 Inch = Feet. Vert. 1 Inch = Feet
 Cross-Section, 1 Inch = 10 Feet

GROSS LENGTH 12420.4 FEET 2.352 MILES
 LENGTH OF EXCEPTIONS 0.0 FEET 0.0 MILES
 NET LENGTH 12420.4 FEET 2.352 MILES

LAYOUT
 Scale, 1 Inch = 100 Feet

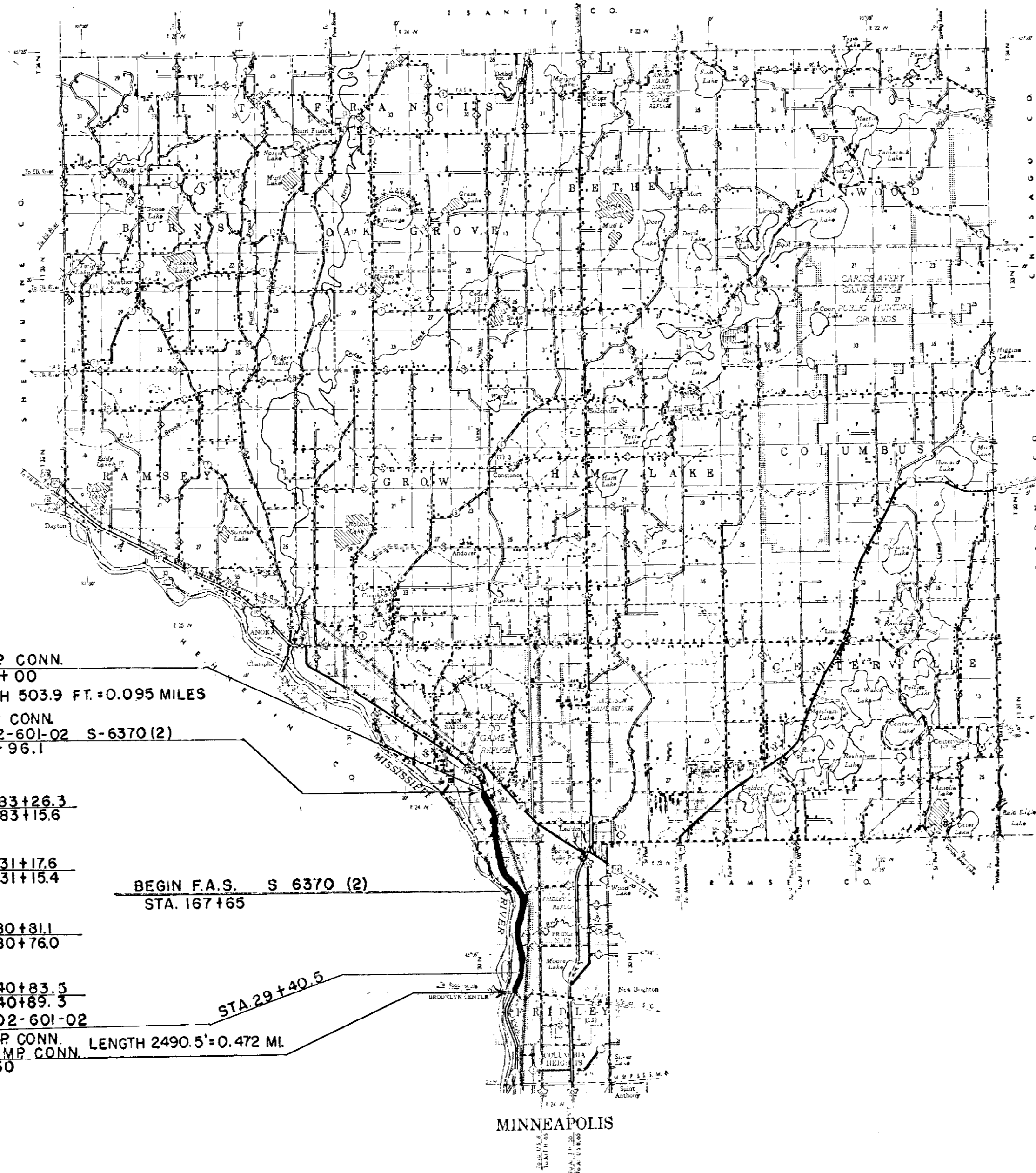
INDEX OF SHEETS

Sheet No. 1.	Title Sheet and Layout Map
" No. 2.	Typical Cross-Sections and Statement
" No. 3.	Detail Sheet Construction of Catch Basin.
" No. 4.	Curb Opening Detail

SPECIFICATION REFERENCE:
 The specifications for Highway Construction, dated July 1, 1947, and submitted for approval by the Division Engineer of the Bureau of Public Roads October 15, 1947, as modified by 'supplement 1' thereto dated April 15, 1953, and submitted for approval by the Division Engineer of the Bureau of Public Roads on March 25, 1953, shall govern.

MINN. PROJ. S 6370 (2)

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.
Boyd J. Lundheim
 DATE 3-20-58 REG. NO. 2551



PLANNED BY E. J. LUNDHEIM 1958
 COUNTY ENGINEER FOR ANOKA COUNTY
 RECOMMENDED FOR APPROVAL *Boyd J. Lundheim* 3-26-58 DISTRICT ENGINEER
 RECOMMENDED FOR APPROVAL *Geo. E. Walker* 4/2-58
 APPROVED 3-20-58 *Boyd J. Lundheim* State Aid Engineer

DEPARTMENT OF COMMERCE
 BUREAU OF PUBLIC ROADS

APPROVED _____
 DISTRICT ENGINEER DATE _____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5N	MINN.				

ESTIMATED QUANTITIES

SPECIFICATION NO.	ITEM	UNIT	ESTIMATED QUANTITIES						TOTAL ESTIMATE QUANTITIES COLS. 1,2,3,4,5
			TEMP. CON. NO. STATE AID	URBAN LIMITS FRIDLEY	F.A.S. RURAL FRIDLEY	TOTAL FRIDLEY COLS. 1,2,3,4	F.A.S. COON RAPIDS	TOTAL F.A.S. COLS. 3,4,5	
2207.503	BITUMINOUS MAT'L. (A.C. 1,200-300 PEN.)	GALLON	26,850	160,880	37,280	225,010	112,380	149,660	337,390
2207.512	BITUMINOUS STABILIZED BASE (4" T.H.)	SQ. YD.	13,425	80,440	18,640	112,505	56,190	74,830	168,695
207.552	BITUMINOUS MAT'L. FOR FOG SEAL	GALLON	1,343	8,044	1,864	11,251	5,619	7,483	16,870
2356.505	BITUMINOUS MAT'L. FOR SEAL COAT	GALLON	3,356	20,110	4,660	28,126	14,048	18,708	42,174
2356.506	SEAL COAT AGGREGATE	TON	168	1,006	233	1,407	702	935	2,109
X 2123.503	MOTOR GRADER	HOURLY	10	58	14	82	40	54	122
X 2123.504	PNEUMATIC TIRED ROLLER	HOURLY	10	58	14	82	40	54	122
** 2506.522	ADJUST FRAME & RING CASTINGS	ASSEMBLY	0	3	0	3	0	0	3
2535.511	BITUMINOUS CURB	TON	0	543	106	649	386	492	1,035

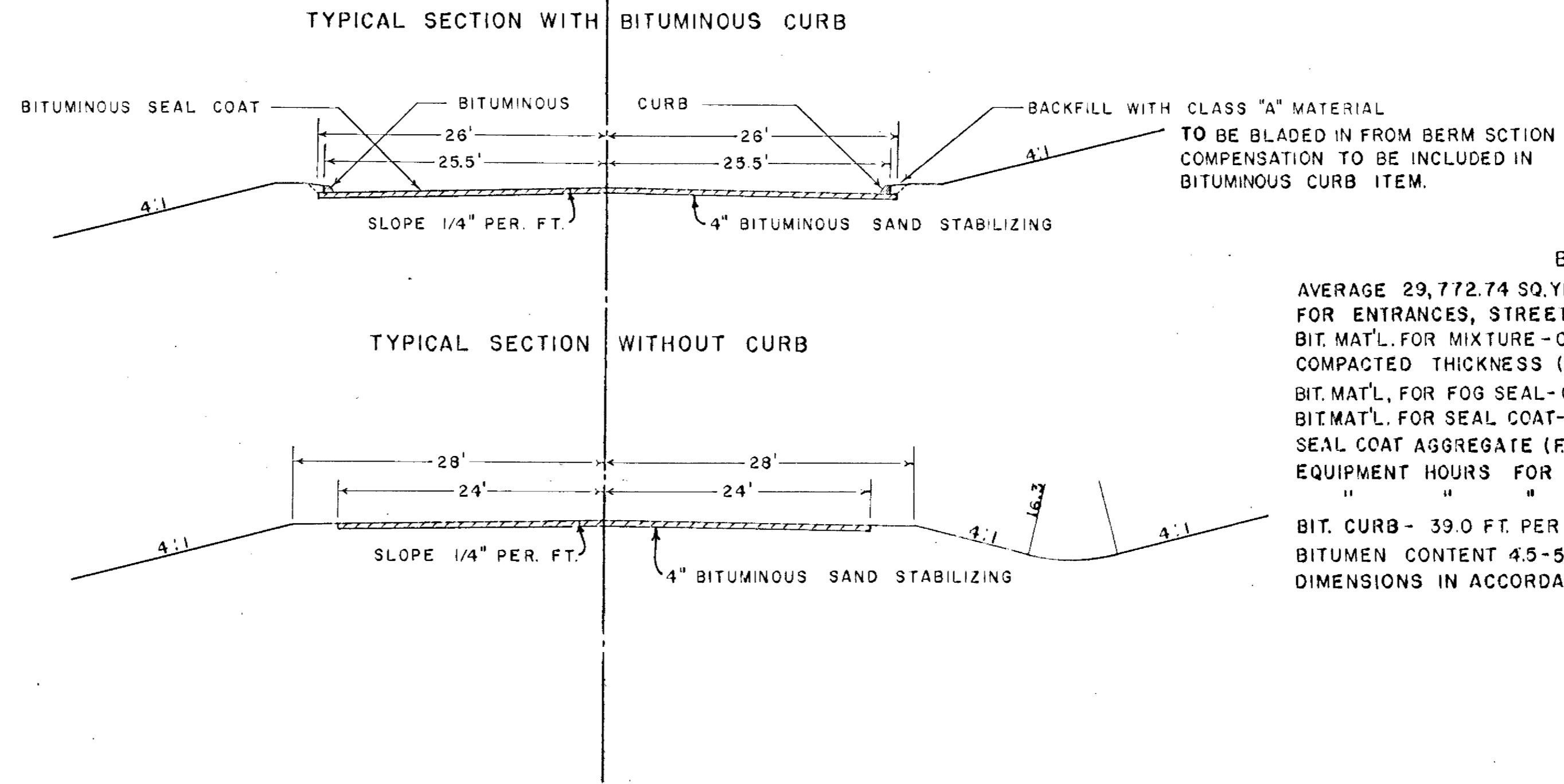
SPECIAL DETAILS

LINEAL FEET OF BIT. CURB
 URBAN FRIDLEY 21,150 FEET
 RURAL FRIDLEY 4,135 FEET
 COON RAPIDS 15,015 FEET

* SHAPING & COMPACTION PRIOR TO STABILIZING.

** ADJUST MANHOLES AT
 STA. 155+80 LT. LN.
 STA. 188+79 LTD. LN.
 STA. 175+90 LTD. LT.

TYPICAL BASE & SURFACE SECTIONS



BASIS FOR COMPUTATION OF QUANTITIES
 AVERAGE 29,772.74 SQ. YDS. PER MILE X 5.54 MILES = 164,941.0 SQ. YDS. + 3,754.0 SQ. YDS.
 FOR ENTRANCES, STREETS, & AREA AROUND CATCH BASINS = 168,695.0 TOTAL EST. SQ. YDS.
 BIT. MAT'L. FOR MIXTURE - 0.5 GAL. PER SQ. YD. (AC 200-300 PEN) PER INCH OF DEPTH OF COMPACTED THICKNESS (0.5 X 4" = 2.00 GAL PER SQ. YD.)
 BIT. MAT'L. FOR FOG SEAL - 0.10 GAL. PER SQ. YD. (M.C.-0, MC-1, M.C.-2)
 BIT. MAT'L. FOR SEAL COAT - 0.25 GAL. PER SQ. YD. (AC 120-150 PEN. OR R.C. 3-5) AT OPTION OF ENGINEER
 SEAL COAT AGGREGATE (FA.4) - 25 LBS. PER SQ. YD.
 EQUIPMENT HOURS FOR MOTOR GRADER - 22 HRS. PER MILE
 " " " PNEUMATIC TIRED ROLLER - 22 HRS. PER MILE.
 BIT. CURB - 39.0 FT. PER TON. TO BE CONSTRUCTED OF HOT PLANT MIX 2341 A.C. 1 (85-120 PEN.)
 BITUMEN CONTENT 4.5-5.3% BY WEIGHT.
 DIMENSIONS IN ACCORDANCE WITH PLATE NO. 7065A

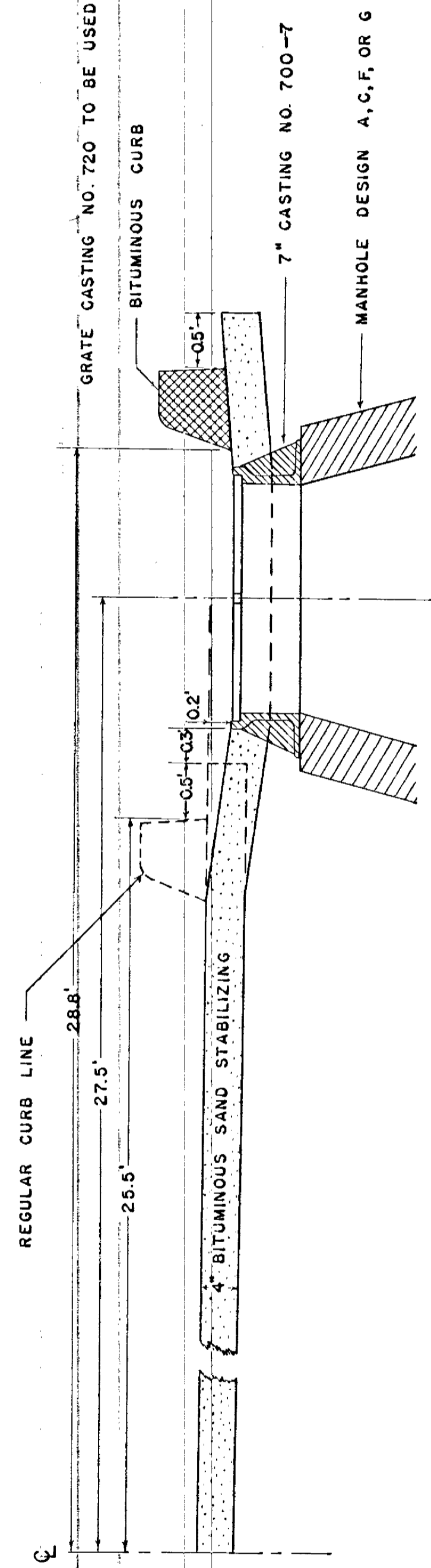
STANDARD DETAIL PLATES

THE FOLLOWING STANDARD DETAIL PLATES, APPROVED BY THE BUREAU OF PUBLIC ROADS, SHALL APPLY ON THIS PROJECT.

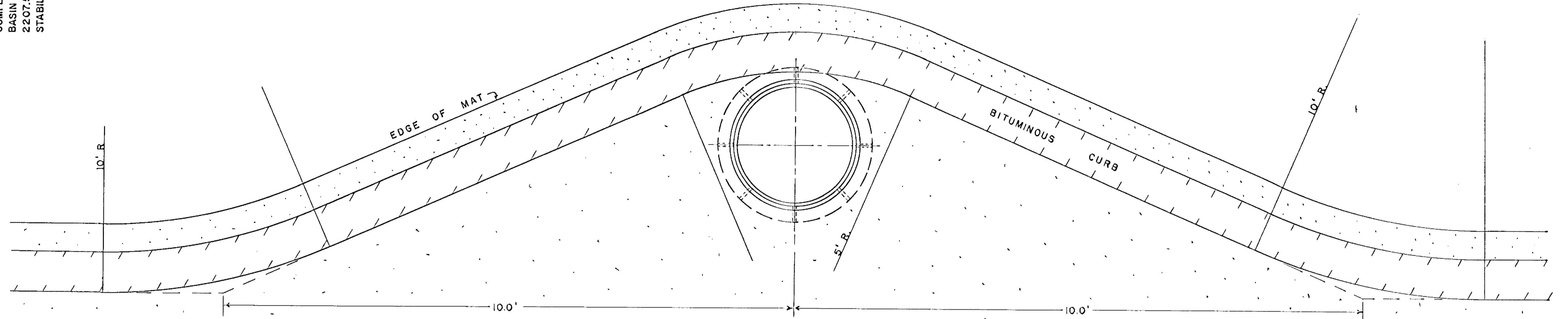
PLATE NO.	DESCRIPTION
7049	ACCESS DRIVEWAY
7065 A	BITUMINOUS CURB

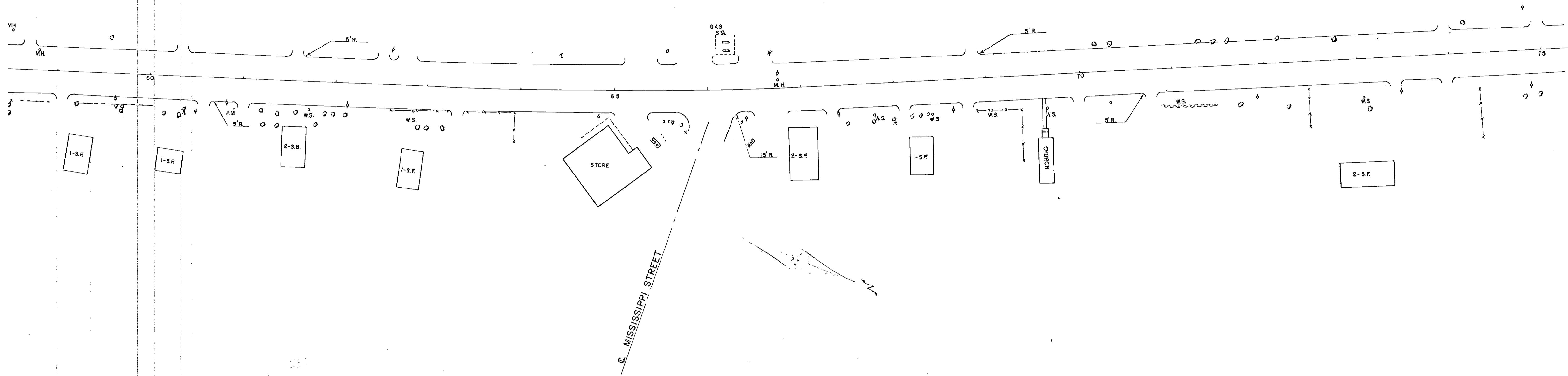
DETAIL OF CATCH BASIN

SCALE 1"=1'



NOTE:
 COMPENSATION FOR SHAPING ADJACENT TO CATCH
 BASIN TO BE INCLUDED IN ITEM NO.
 2207.512 SQ. YDS. BITUMINOUS SAND
 STABILIZATION.





DETAIL
 STA 58 TO STA 75
 SHOWING
 CURB OPENINGS
 &
 STREET CONNECTIONS
 ARRANGEMENT OF ACCESS
 BETWEEN STA 4+50 & STA 291+96
 TO CONFORM WITH PLATE NO. 7049

DETAILED OF APPROACH PROFILE

