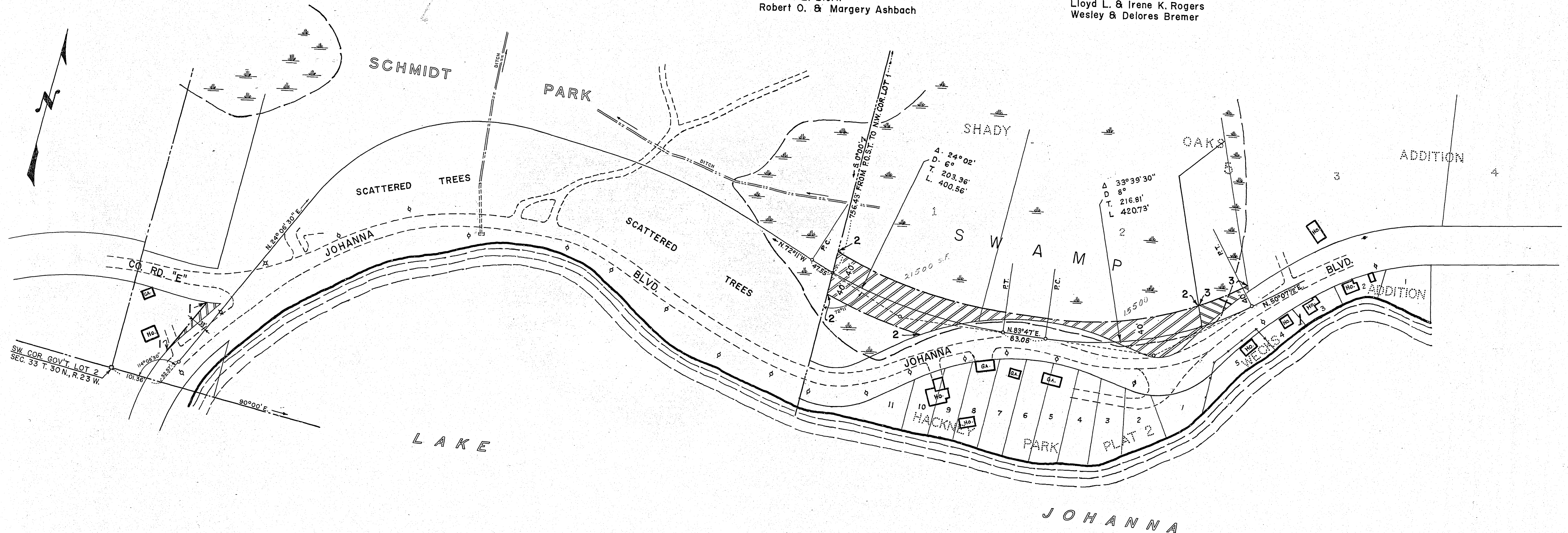



NEG. 1
Ida Perry et al

NEG. 2
Norman E. Biorn
Robert O. & Margery Ashbach

NEG. 3
Lloyd L. & Irene K. Rogers
Wesley & Delores Bremer



LEGEND
 DENOTES ADDITIONAL RIGHT OF WAY.

OFFICE OF RAMSEY COUNTY ENGINEER
 RIGHT OF WAY MAP
JOHANNA BOULEVARD
 FROM 250' SOUTH OF COUNTY ROAD "E" TO 2565' NORTHEASTERLY
 RAMSEY COUNTY PROJECT NO. 56-08
 SCALE: 1" = 100'
 MARCH 1956

CONVENTIONAL SIGNS

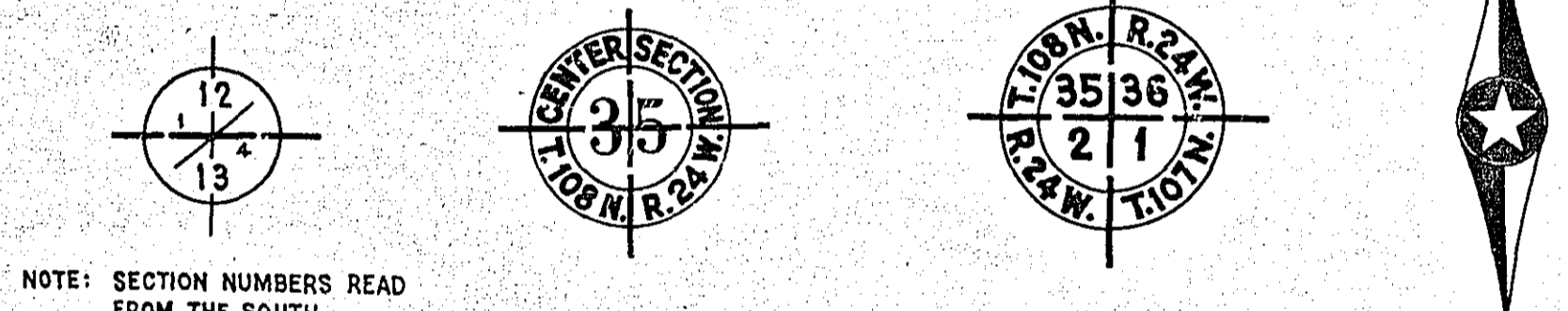
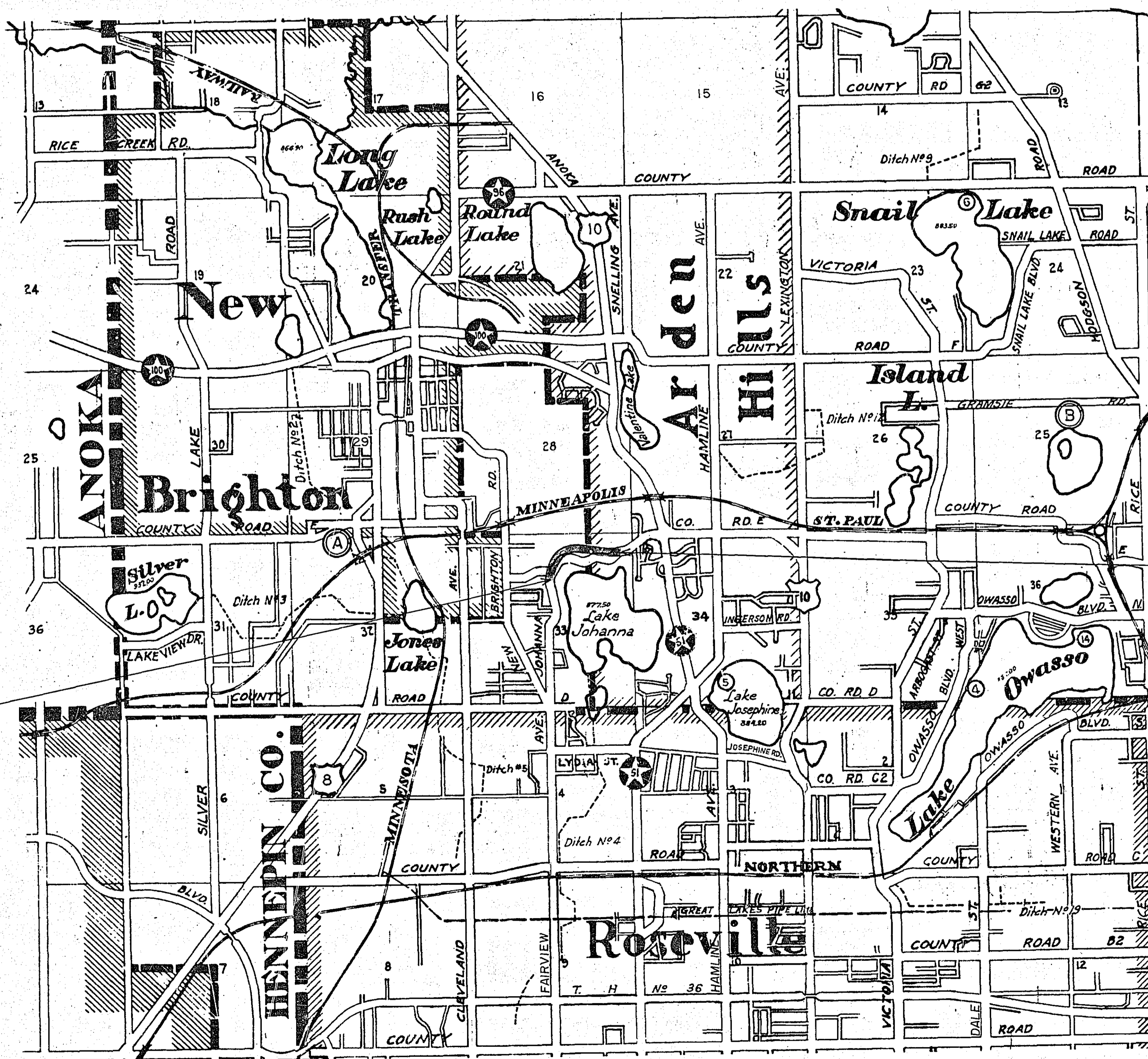
STATE LINE	-----	TIMBER	-----
COUNTY LINE	-----	BRUSH	-----
TOWNSHIP OR RANGE LINE	-----	ORCHARD	-----
SECTION LINE	-----	ROCK LEDGE	-----
QUARTER LINE	-----	SAND	-----
SIXTEENTH LINE	-----	EDGE OF CUT	-----
RIGHT-OF-WAY LINE	-----	TOE OF EMBANKMENT	-----
PRESENT ROAD 1/4 LINE	-----	CATCH BASIN	-----
LIMITED ACCESS	-----	MANHOLE	-----
PROPERTY LINE (Except Land Lines)	-----	DROP INLET	-----
VACATED PLATTED PROPERTY	-----	FIRE HYDRANT	-----
CORPORATE OR CITY LIMITS	-----	ARC LAMP	-----
TRUNK HIGHWAY CENTER LINE	-----	OTHER LAMPS (Cable Wire)	-----
RETAINING WALL	-----	RAILROAD CROSSING SIGN	-----
STEAM RAILROAD	-----	RAILROAD CROSSING BELL	-----
ELECTRIC RAILROAD	-----	ELECTRIC WARNING SIGN	-----
RAILROAD RIGHT-OF-WAY LINE	-----	CROSSING GATE	-----
CREEK	-----	CATTLE GUARD	-----
RAPIDS OR WATERFALL	-----	OVERHEAD (Highway Over)	-----
DRY RUN	-----	UNDERPASS (Highway Under)	-----
DRAINAGE DITCH	-----	ABUTMENT, WALL & PIER	-----
HIGH TENSION LINE	-----	BRIDGE	-----
POWER POLE LINE	-----	CULVERT	-----
TELEPHONE OR TELEGRAPH LINE	-----	BUILDING (One Story Frame)	-----
TELEPHONE CONDUIT	-----	C-CONCRETE S-STONE T-TILE B-BRICK ST-STUCCO	-----
GUARD RAIL	-----	HEDGE	-----
WIRE FENCE	-----	IRON PIPE	-----
RAILROAD SNOW FENCE	-----	STONE MONUMENT	-----
BOARD OR HIGHWAY SNOW FENCE	-----	WOOD STAKE OR HUB	-----
STONE WALL OR FENCE	-----	MEANDER CORNER	-----
GAS MAIN	-----		
WATER PIPE	-----		
SEWER PIPE	-----		
DRAIN TILE	-----		
GRAVEL PIT	-----		
SAND PIT	-----		
CLAY PIT	-----		
ROCK QUARRY	-----		
SPRINGS	-----		
MARSH	-----		

**OFFICE OF COUNTY ENGINEER
RAMSEY COUNTY**
CONSTRUCTION PLAN FOR GRADING AND STABILIZING
JOHANNA BOULEVARD
RAMSEY COUNTY PROJECT NO. 56-08
FROM 250' SOUTH OF COUNTY ROAD "E" TO 2565' NORTHEASTERLY

GROSS LENGTH	2562 FEET	0.485 MILES
BRIDGES-LENGTH	0 FEET	0 MILES
EXCEPTIONS-LENGTH	0 FEET	0 MILES
NET LENGTH	2562 FEET	0.485 MILES

INDEX	
SHEET NO.	DESCRIPTION
1	LAYOUT MAP AND TITLE SHEET
2	ESTIMATE AND DETAIL SHEET
3	PLAN AND PROFILE
4-12	CROSS SECTIONS

SCALES	PLAN, 1 inch = 100 Feet
	PROFILE, Horiz. 1 inch = 100 Feet. Vert. 1 inch = 10 Feet.
	WORKING PLANS { Horiz. 1 inch = Feet Vert. 1 inch = Feet
	LAYOUT, 1 inch = 2640 Feet



PIT DATA

CO. RD. "E" PIT NO. A	Located in SW 1/4 of Sec. 29, T. 30N., R. 23 W.
	Dead Haul 1.75 Mi.
GRAMSIE PIT NO. B	Located in NE 1/4 of Sec. 25, T. 30N., R. 23 W.
	Dead Haul 3.5 Mi.
PIT NO.	Located in Dead Haul
PIT NO.	Located in Dead Haul

BEG. OF PROJ.
STA. 0+00

END OF PROJ.
STA. 25+65

SPECIFICATIONS

THE "SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" DATED JULY 1, 1947 AND SUBMITTED FOR APPROVAL BY THE DIVISION ENGINEER OF THE BUREAU OF PUBLIC ROADS ON 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.

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.

Raymond J. Bergeson COUNTY ENGINEER REG. NO. 818 DATE April 2, 1956

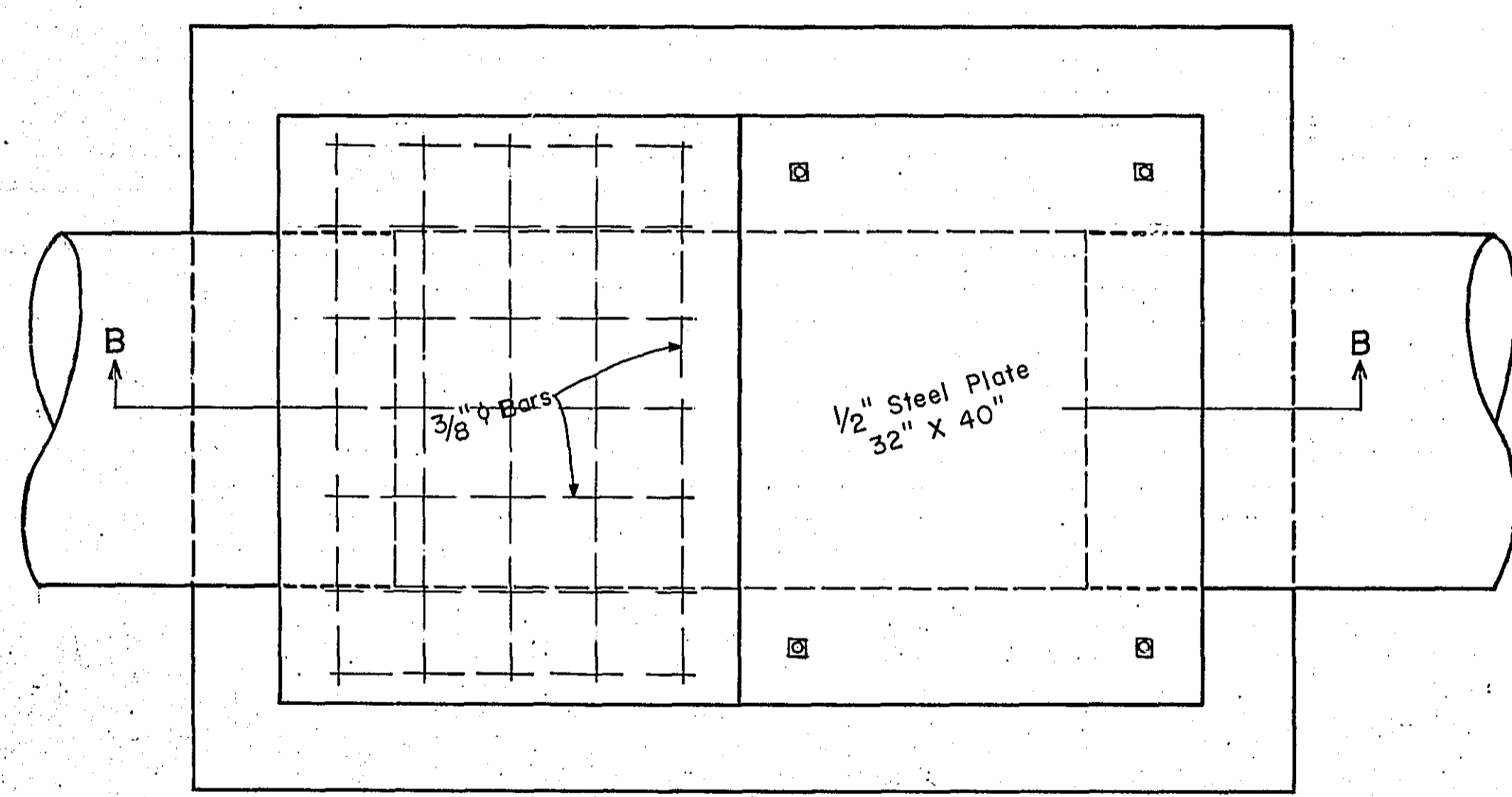
RECOMMENDED FOR APPROVAL *Raymond J. Bergeson* COUNTY ENGINEER DATE April 2, 1956

APPROVED *Joseph S. Sullivan* CHAIRMAN OF RAMSEY COUNTY BOARD DATE

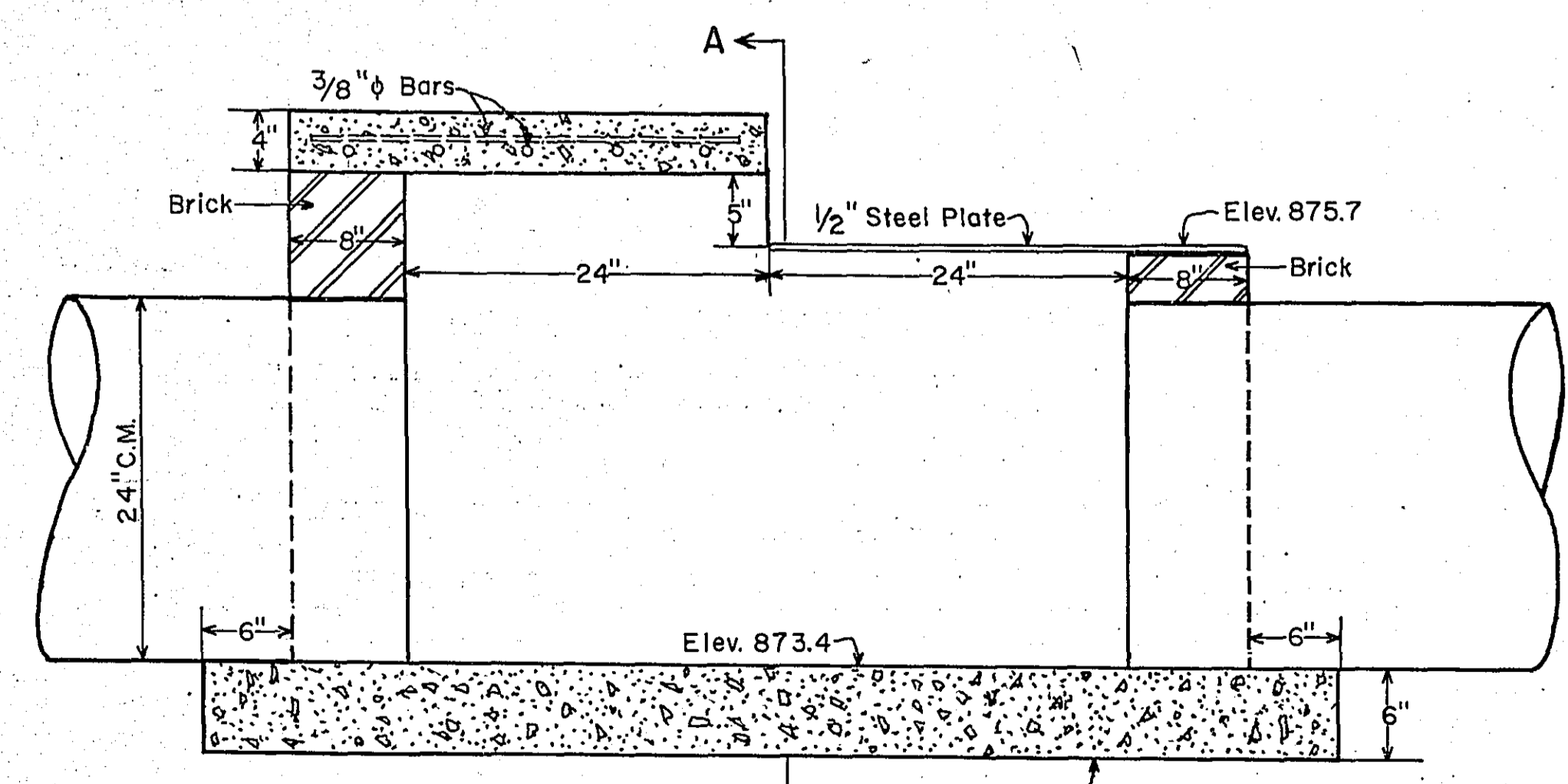
FISCAL YEAR	SHEET NO.	TOTAL SHEETS

ESTIMATED QUANTITIES			
SPECIFICATION NO.	ITEM	UNIT	TOTAL ESTIMATED QUANTITIES
2101.502	CLEARING	TREE	169
2101.507	GRUBBING	TREE	189
2104.509	REMOVE GUARD RAIL	LINEAR FOOT	640
2105.503	CLASS "C" EXCAVATION	CUBIC YARD	4094
2105.508	BORROW EXCAVATION (CLASS "C")	" "	44,210
2105.514	SALVAGED BITUMINOUS MIXTURE IN PLACE	" " (V.M.)	370
2123.506	DRAGLINE (SPECIAL SWAMP EXCAVATION)	HOUR	260
2130.501	WATER	(M) GALLONS	27
2201.527	GRAVEL SUB-BASE IN PLACE (PIT "A")	CUBIC YARD (V.M.)	1368
2201.527	" " " " (PIT "B")	" " "	1300
2202.527	GRAVEL BASE IN PLACE - (2 1/2")	" " "	947
2208.501	BITUMINOUS MATERIAL FOR PRIME COAT	GALLON	2078
2208.503	" " MIXTURE	" " "	10908
2208.507	AGGREGATE	CUBIC YARD (V.M.)	557
2501.511-15	F. & I. C.M. PIPE CULVERT 15"	LINEAR FOOT	86
2501.511-18	F. & I. C.M. " 18"	" "	50
2501.511-24	F. & I. C.M. " 24"	" "	148
2506.506	CONSTRUCT MANHOLE (DESIGN C)	LINEAR FOOT	5.5
2506.507	" CATCH BASIN	" "	3.5
* 2506.516	F & I. CASTING ASSEMBLY	ASSEMBLY	1

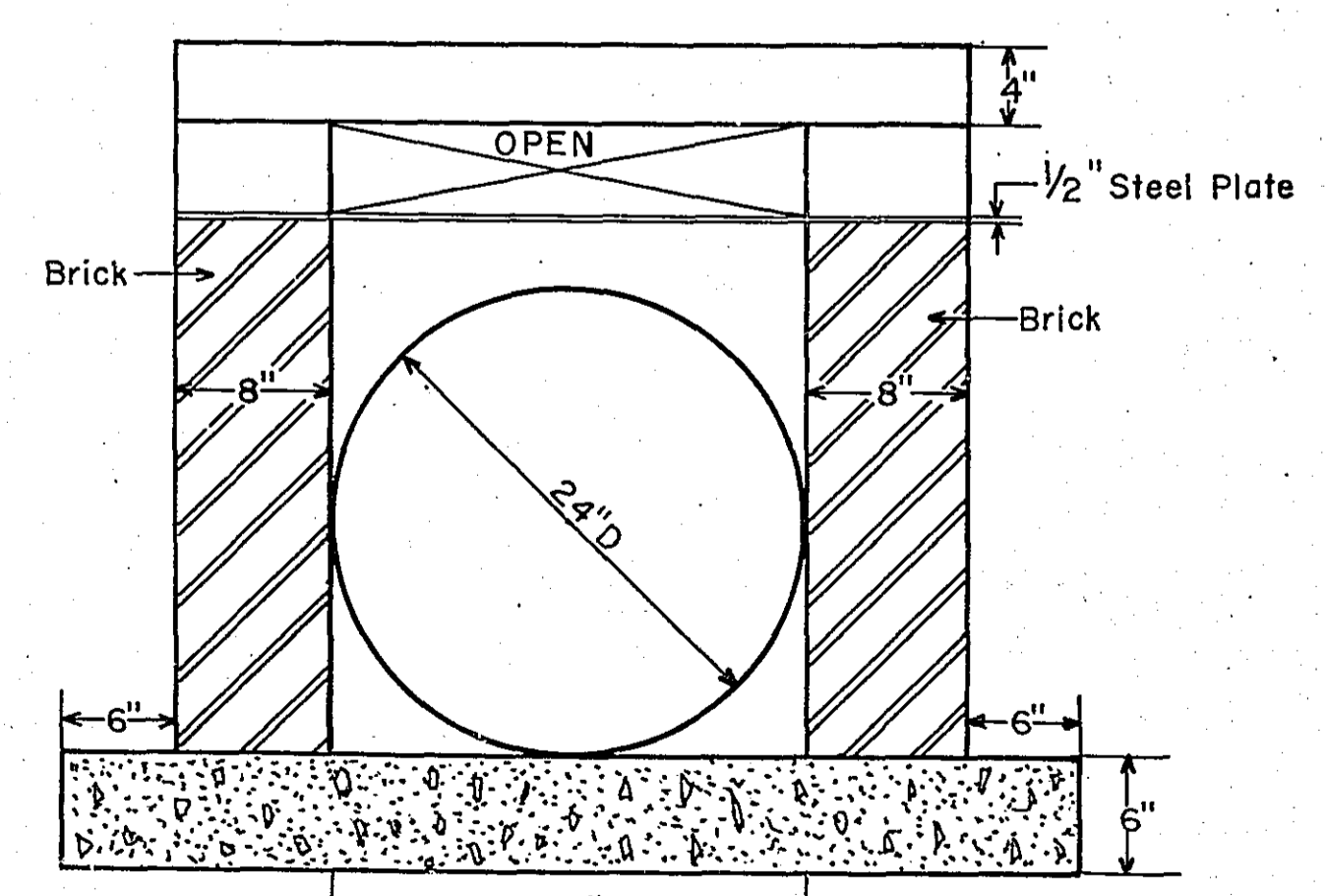
* SEE SPECIAL PROVISIONS.



PLAN



SECTION B-B

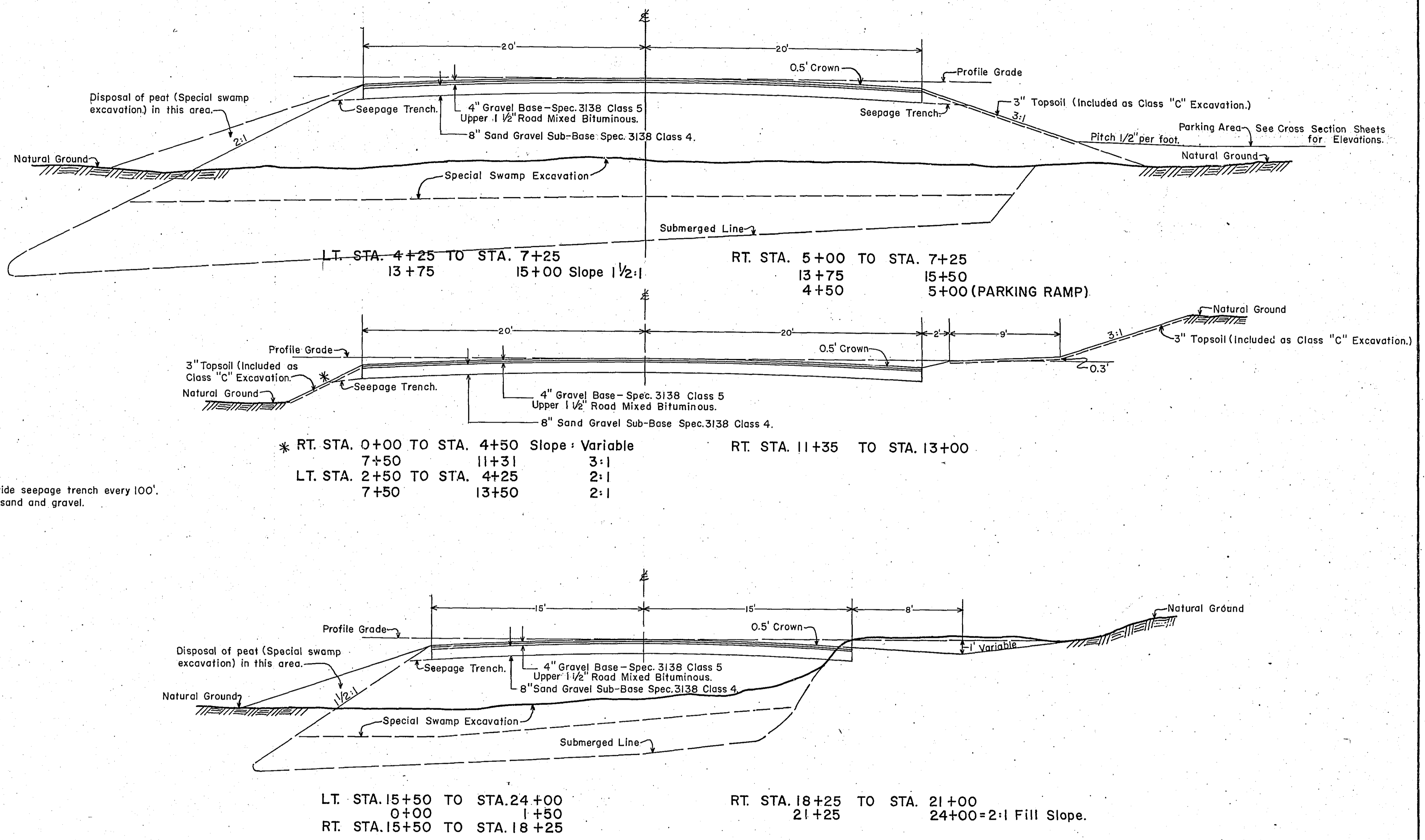


SECTION A-A

CATCH BASIN DETAILS

Construct 2' wide seepage trench every 100'. Backfill with sand and gravel.

TYPICAL SECTIONS



STANDARD DETAIL PLATE
4002B MANHOLE (DESIGN C)

BASIS FOR PLANNED QUANTITIES	
GRAVEL BASE	
GRAVEL BASE	135 LBS. PER CU. FT.
WATER FOR COMPACTION	20 GAL. PER TON OF BASE CONSTRUCTION
BITUMINOUS BASE	
BITUMINOUS MATERIAL FOR PRIME	0.20 GAL. PER SQ. YD.
BITUMINOUS MATERIAL FOR MIXTURE	1.05 GAL. PER SQ. YD.
MINERAL AGGREGATE	150 LBS. PER SQ. YD.

PLAN SURVEYED BY DATE
 PLOTTED BY DATE
 NOTE BOOK, ALIGNMENT CHECKED NO. DATE
 RT. OF WAY CHECKED NO. DATE

PROFILE SURVEYED BY DATE
 PLOTTED BY DATE
 NOTE BOOK, GRADES CHECKED NO. DATE
 STRUCTURE NOTATION CHECKED NO. DATE

