

STATEMENT OF ESTIMATED QUANTITIES				AVERAGE 3 LOWEST BIDDERS	FOREST LAKE CONTR.		N.D.H. INC.		SHAFFER CONTR.		PALDA & SONS		ASCHBACH		HARDRIVES INC.		TOTAL ASPHALT		VALLEY PAVING		C.S. McCROSSAN	
ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITIES		UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
2021.501	MOBILIZATION	L.S.	1	4,320.00	3,960.00	3,960.00	6,000.00	6,000.00	3,000.00	3,000.00	7,600.00	7,600.00	5,000.00	5,000.00	—	—	6,150.00	6,150.00	1,500.00	1,500.00	6,500.00	6,500.00
2104.501	REMOVE CHAIN LINK FENCE	L.F.	10	6.50	10.00	100.00	6.50	65.00	3.00	30.00	13.00	130.00	1.75	17.50	5.00	50.00	10.00	100.00	7.50	75.00	4.25	42.50
2104.501	REMOVE CULVERT PIPE	L.F.	400	4.32	5.00	2,000.00	4.95	1,980.00	3.00	1,200.00	1.00	400.00	3.70	1,480.00	2.20	880.00	3.50	1,400.00	1.25	500.00	4.30	1,720.00
2105.501	COMMON EXCAVATION	C.Y.	5,158	3.65	3.65	18,826.70	3.00	15,474.00	2.50	12,895.00	3.00	15,474.00	4.35	22,437.30	4.13	21,302.54	4.75	24,500.00	3.60	18,568.80	3.45	17,795.10
2105.525	TOPSOIL BORROW	C.Y.	425	5.78	5.00	2,125.00	5.85	2,486.25	6.50	2,762.50	8.00	3,400.00	7.15	3,038.75	6.31	2,681.75	6.35	2,698.75	6.50	2,762.50	7.18	3,051.50
2105.523	COMMON BORROW (LV)	C.Y.	500	2.28	0.10	50.00	3.00	1,500.00	3.75	1,875.00	4.25	2,125.00	3.15	1,575.00	5.40	2,700.00	4.00	2,000.00	3.90	1,950.00	4.00	2,000.00
2211.501	AGGREGATE BASE, CLASS 6 OR 5 100% CRUSHED	TON	2,393	6.17	6.35	15,195.55	6.25	14,956.25	5.90	14,118.70	6.50	15,554.50	6.70	16,033.10	8.24	19,718.32	7.15	17,109.95	7.16	17,133.88	7.20	17,229.60
0331.603	SAWING BITUMINOUS PAVEMENT SURFACE	L.F.	5,100	0.98	0.70	3,570.00	0.50	2,550.00	1.75	8,925.00	0.50	2,550.00	0.95	4,845.00	0.50	2,550.00	0.48	2,448.00	1.35	6,885.00	0.30	1,530.00
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	80	189.00	180.00	14,400.00	192.00	15,360.00	195.00	15,600.00	195.00	15,600.00	190.00	15,200.00	180.00	14,400.00	195.00	15,600.00	185.00	14,800.00	185.00	14,800.00
2341.508	WEARING COURSE MIXTURE FOR BIKEWAY **	TON	681	13.80	13.60	9,261.60	13.00	8,853.00	14.80	10,078.80	16.00	10,896.00	13.20	9,089.20	16.36	11,141.16	14.80	10,078.80	13.65	9,295.65	17.50	11,917.50
2341.510	BINDER COURSE MIXTURE FOR BIKEWAY ***	TON	681	13.65	13.60	9,261.60	13.00	8,853.00	14.35	9,772.35	15.00	10,215.00	13.30	9,057.30	16.30	11,100.30	14.35	9,772.35	13.00	8,853.00	17.50	11,917.50
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	309	1.50	2.00	618.00	1.00	309.00	1.50	463.50	1.50	463.50	1.20	370.80	1.25	386.25	1.50	463.50	1.50	463.50	2.00	618.00
2358.501	BITUMINOUS MATERIAL FOR PRIME COAT	GAL.	1,921	0.34	0.61	19.21	0.61	19.21	1.00	1,921.00	1.00	1,921.00	0.45	864.45	0.75	1,440.75	1.00	1,921.00	1.50	2,881.50	2.00	3,842.00
2501.511	12" C.S. PIPE CULVERT, 16 GA.	L.F.	400	12.17	10.00	4,000.00	17.50	7,000.00	9.00	3,600.00	16.50	6,600.00	13.50	5,400.00	15.40	6,160.00	10.00	4,000.00	27.00	10,800.00	20.00	8,000.00
2501.515	12" G.S. PIPE APRONS	EACH	26	43.33	40.00	1,040.00	55.00	1,430.00	35.00	910.00	45.00	1,170.00	85.00	2,210.00	38.50	1,001.00	45.00	1,170.00	55.00	1,430.00	45.00	1,170.00
2506.522	ADJUST FRAME AND RING CASTING	EACH	13	96.67	90.00	1,170.00	75.00	975.00	125.00	1,625.00	75.00	975.00	85.00	1,105.00	85.00	1,105.00	100.00	1,300.00	110.00	1,430.00	120.00	1,560.00
2535.501	BITUMINOUS CURB *	L.F.	130	2.83	3.50	455.00	2.00	260.00	3.00	390.00	3.00	390.00	2.00	260.00	4.53	588.90	3.00	390.00	2.40	312.00	3.00	390.00
2575.505	SODDING	S.Y.	5,104	1.15	1.05	5,359.20	1.10	5,614.40	1.30	6,635.20	1.35	6,890.40	1.50	7,656.00	1.64	8,370.56	1.20	6,124.80	1.86	9,493.44	1.38	7,043.52
2575.531	COMMERCIAL FERTILIZER, ANALYSIS 12-12-12	TON	0.17	320.00	295.00	50.15	365.00	62.05	300.00	51.00	400.00	68.00	375.00	63.75	352.00	59.84	300.00	51.00	600.00	102.00	345.00	58.65
504.602	ADJUST VALVE BOX	EACH	5	75.00	80.00	400.00	50.00	250.00	95.00	475.00	50.00	250.00	55.00	275.00	75.00	375.00	100.00	500.00	100.00	500.00	90.00	450.00
TOTAL						\$ 91,862.01		\$ 93,997.16		\$ 96,328.05		\$ 102,672.40		\$ 105,878.15		\$ 106,011.37		\$ 107,778.65		\$ 109,736.27		\$ 111,635.87

FAIRVIEW AVE. BIKEWAY "C" to "D"

26-120

STATEMENT OF ESTIMATED QUANTITIES				FOREST LAKE CONTR.			
ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITIES	UNIT PRICE	AMOUNT	FINAL QUANTITY	FINAL AMOUNT
2021.501	MOBILIZATION	L.S.	1	3,960.00	3,960.00	1	3,960.00
2104.501	REMOVE CHAIN LINK FENCE	L.F.	10	10.00	100.00	10	100.00
2104.501	REMOVE CULVERT PIPE	L.F.	400	5.00	2,000.00	423	2,115.00
2105.501	COMMON EXCAVATION	C.Y.	5,158	3.65	18,826.70	5,158	18,826.70
2105.525	TOPSOIL BORROW	C.Y.	425	5.00	2,125.00	464	2,320.00
2105.523	COMMON BORROW (LV)	C.Y.	500	0.10	50.00	0	0.00
2211.501	AGGREGATE BASE, CLASS 6 OR 5 100% CRUSHED	TON	2,393	6.35	15,195.55	2,365	15,017.75
0331.603	SAWING BITUMINOUS PAVEMENT SURFACE	L.F.	5,100	0.70	3,570.00	5,100	3,570.00
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	80	180.00	14,400.00	46.8	8,424.00
2341.508	WEARING COURSE MIXTURE FOR BIKEWAY **	TON	681	13.60	9,261.60	483	6,568.80
2341.510	BINDER COURSE MIXTURE FOR BIKEWAY ***	TON	681	13.60	9,261.60	483	6,568.80
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	309	2.00	618.00	98	196.00
2358.501	BITUMINOUS MATERIAL FOR PRIME COAT	GAL.	1,921	0.61	19.21	0	0.00
2501.511	12" C.S. PIPE CULVERT, 16 GA.	L.F.	400	10.00	4,000.00	400	4,000.00
2501.515	12" G.S. PIPE APRONS	EACH	26	40.00	1,040.00	26	1,040.00
2506.522	ADJUST FRAME AND RING CASTING	EACH	13	90.00	1,170.00	13	1,170.00
2535.501	BITUMINOUS CURB *	L.F.	130	3.50	455.00	0	0.00
2575.505	SODDING	S.Y.	5,104	1.05	5,359.20	5,280	5,544.00
2575.531	COMMERCIAL FERTILIZER, ANALYSIS 12-12-12	TON	0.17	295.00	50.15	0.18	53.10
504.602	ADJUST VALVE BOX	EACH	5	80.00	400.00	2	160.00
				Sub-total		79,638.15	
Supplemental agreement #1				L.S.	6,919.35	1	6,919.35
				26-120		\$ 91,862.01	
						\$ 86,553.50	

PLANS SYMBOLS

STATE LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
RIGHT OF WAY LINE
PRESENT RIGHT OF WAY LINE
CONTROL OF ACCESS LINE
PROPERTY LINE (Except Land Lines)
VACATED PLATTED PROPERTY
CORPORATE OR CITY LIMITS
TRUNK HIGHWAY CENTER LINE
RETAINING WALL
RAILROAD
RAILROAD RIGHT OF WAY LINE
RIVER OR CREEK
DRY RUN
DRAINAGE DITCH
DRAIN TILE
CULVERT
DROP INLET
GUARD RAIL
BARBED WIRE FENCE
WOVEN WIRE FENCE
CHAIN LINK FENCE
RAILROAD SNOW FENCE
STONE WALL OR FENCE
HEDGE
RAILROAD CROSSING SIGN
RAILROAD CROSSING BELL
ELECTRIC WARNING SIGN
CROSSING GATE
MEANDER CORNER

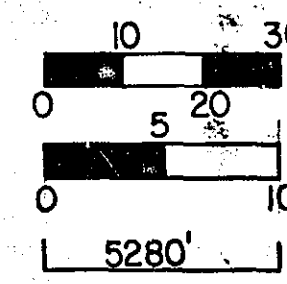
SPRINGS
MARSH
TIMBER
ORCHARD
BRUSH
NURSERY
CATCH BASIN
FIRE HYDRANT
CATTLE GUARD
OVERPASS (Highway Over)
UNDERPASS (Highway Under)
BRIDGE
BUILDING (One Story Frame)
F FRAME C CONCRETE
S STONE T TILE
B BRICK ST STUCCO
IRON PIPE OR ROD
MONUMENT (STONE, CONCRETE, OR METAL)
WOODEN HUB
GRAVEL PIT
SAND PIT
BORROW PIT
ROCK QUARRY

UTILITIES SYMBOLS

POWER POLE LINE
TELEPHONE OR TELEGRAPH
POLE LINE
JOINT TELEPHONE AND POWER
ON POWER POLES
ON TELEPHONE POLES
ANCHOR
STEEL TOWER
STREET LIGHT
PEDESTAL TELEPHONE CABLE
TERMINAL
GAS MAIN
WATER MAIN

CONDUIT
TELEPHONE CABLE IN CONDUIT
ELECTRIC CABLE IN CONDUIT
TELEPHONE-MANHOLE
ELECTRIC MANHOLE
BURIED TELEPHONE CABLE
BURIED ELECTRIC CABLE
AERIAL TELEPHONE CABLE
SEWER (SANITARY OR STORM)
SEWER MANHOLE

PLAN
CROSS-SECTIONS
LAYOUT



GROSS LENGTH 2878.55 FEET= .545 MILES
BRIDGES- LENGTH 0 FEET= 0 MILES
EXCEPTIONS- LENGTH 0 FEET= 0 MILES
NET LENGTH 2878.55 FEET= .545 MILES

RAMSEY COUNTY DEPARTMENT OF PUBLIC WORKS

FAIRVIEW AVE. BIKEWAY CONSTRUCTION PLAN FOR BITUMINOUS BIKEWAY BETWEEN: COUNTY RDS. "C-2" AND "D"

S.A.P. NO. 62-648-09
FROM: THE CENTER OF SECTION 4, TOWNSHIP 29
NORTH, RANGE 23 WEST.
TO: THE NORTH QUARTER CORNER OF SECTION 4,
TOWNSHIP 29 NORTH, RANGE 23 WEST.

TRAFFIC VOLUME

ADT 1980 - 7475
2000 - 8000

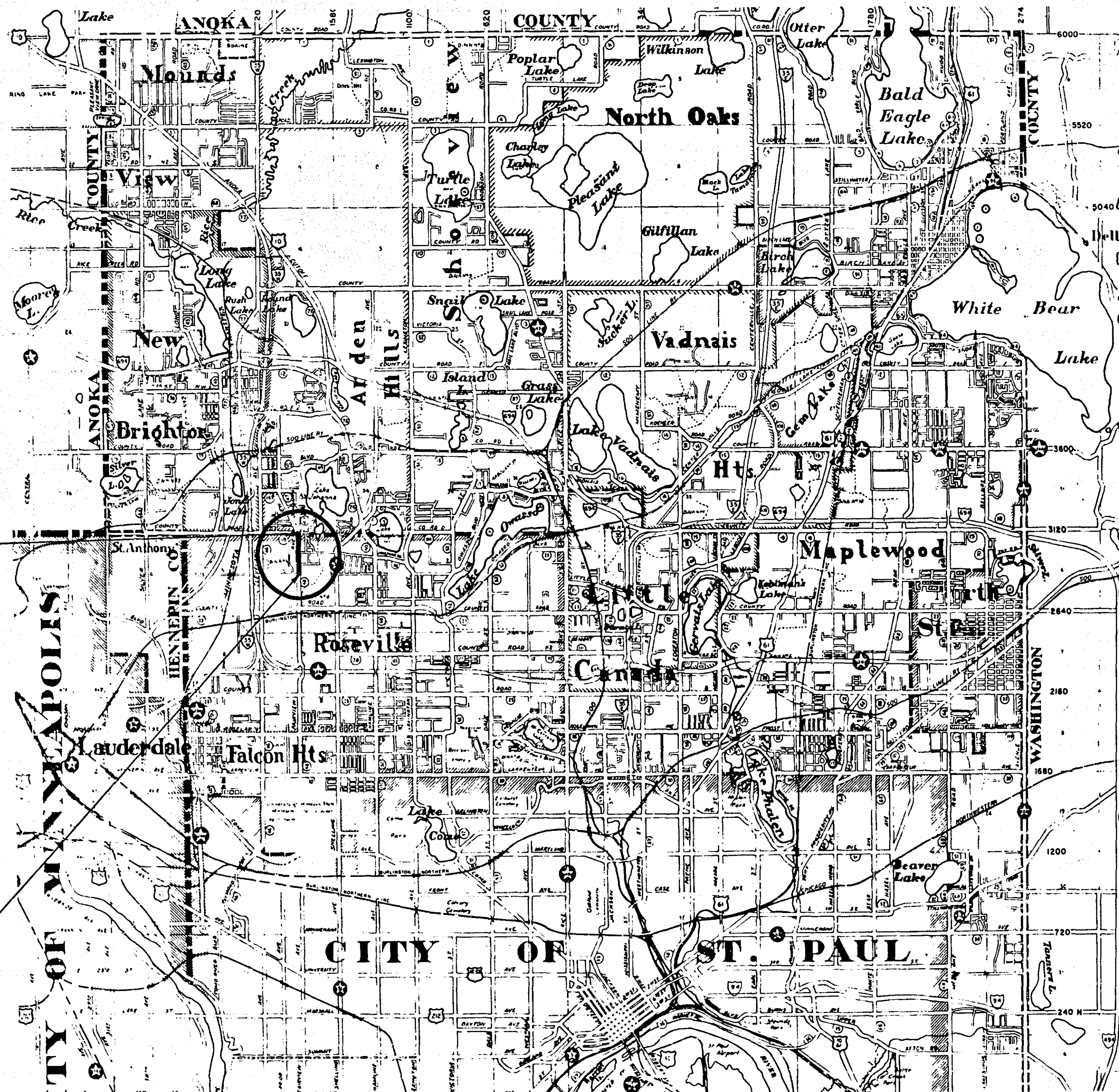
ACCT NO. 47222

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED QUANTITIES & TYPICAL SECTION
3-4	PLAN SHEETS
5-6	CROSS-SECTIONS

END PROJECT
STA. 81+55.76

BEGIN PROJECT
STA. 52+77.21



PIT DATA

PIT NO. Located in
Dead Haul
PIT NO. Located in
Dead Haul

THE 1978 EDITION OF THE MINNESOTA DEPARTMENT
OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR
HIGHWAY CONSTRUCTION" SHALL GOVERN.

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: *RPB*
DATE: 1/28/82

DESIGN SQUAD _____ DATE _____
DRAWN BY _____ DATE _____
CHECKED BY _____ DATE _____
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.
DATE 1/23/81 REG. NO. 13501 ENGR. *Randy Feldt*

RECOMMENDED FOR APPROVAL *DK* DATE 1-26-81
RECOMMENDED FOR APPROVAL *DK* DATE 1-27-81
RECOMMENDED FOR APPROVAL *DK* DATE 1-27-81
RECOMMENDED FOR APPROVAL *DK* DATE 1-26-81
RECOMMENDED FOR APPROVAL *DK* DATE 4-17-81
RECOMMENDED FOR APPROVAL *DK* DATE 1-27-81
APPROVED *DK* DATE 1-27-81

RECOMMENDED FOR APPROVAL *DK* DATE 1-29-81
APPROVED *Robert J. O'Neil* DATE 7-20-81
APPROVED *James J. Remas* DATE 4-16-81
APPROVED *James J. Remas* DATE 4-16-81
MINNESOTA DEPARTMENT OF TRANSPORTATION
RECOMMENDED FOR APPROVAL *Robert J. O'Neil* DATE 6-9-81
APPROVED *Robert J. O'Neil* DATE 5/4/81
APPROVED *Robert J. O'Neil* DATE 6/9/81

DATE	SHEET NO.	BY
4-24-81	MINNESOTA DEPT. OF TRANSPORTATION	M.F.
4-30-81	LANE WIDTHS + 20'	RSO

S.A.P. 62-648-09

Sheet No. 1 of 6 Sheets

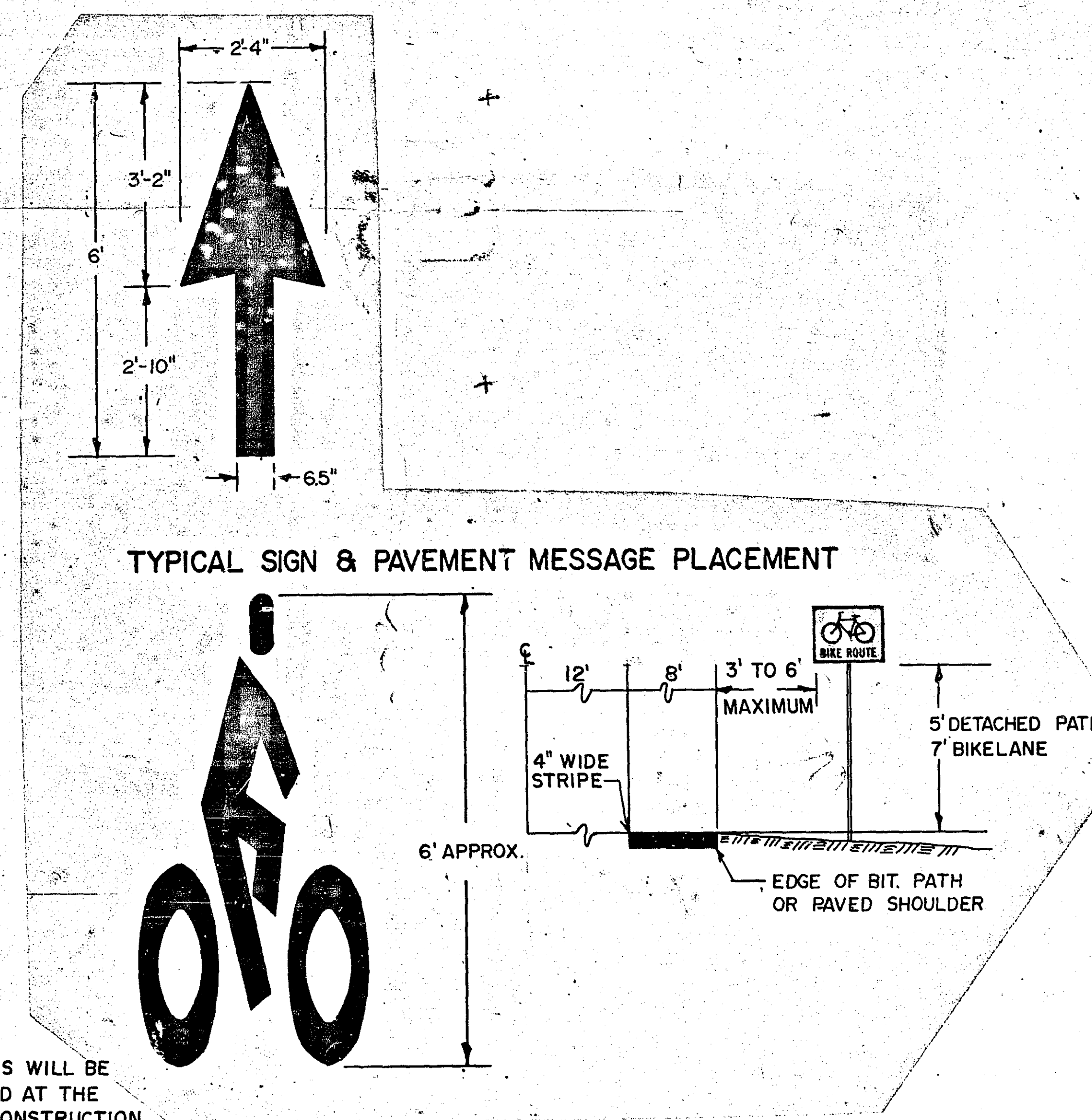
26-120

STATEMENT OF ESTIMATED QUANTITIES				
ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITIES	FINAL ESTIMATED QUANTITIES
2021.501	MOBILIZATION	L.S.	1	
2104.501	REMOVE CHAIN LINK FENCE	L.F.	10	
2104.501	REMOVE CULVERT PIPE	L.F.	400	
2105.501	COMMON EXCAVATION	C.Y.	5,158	
2105.525	TOPSOIL BORROW	C.Y.	425	
2105.523	COMMON BORROW (LV)	C.Y.	500	
2211.501	AGGREGATE BASE, CLASS 6 OR 5, 100% CRUSHED	TON	2,393	
0331.603	SAWING BITUMINOUS PAVEMENT SURFACE	L.F.	5,100	
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	80	
2341.508	WEARING COURSE MIXTURE FOR BIKEWAY **	TON	681	
2341.510	BINDER COURSE MIXTURE FOR BIKEWAY ***	TON	681	
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	309	
2358.501	BITUMINOUS MATERIAL FOR PRIME COAT	GAL.	1,921	
2501.511	12" C.S. PIPE CULVERT, 16 GA.	L.F.	400	
2501.515	12" G.S. PIPE APRONS	EACH	26	
2506.522	ADJUST FRAME AND RING CASTING	EACH	13	
2535.501	BITUMINOUS CURB *	L.F.	130	
2575.505	SODDING	S.Y.	5,104	
2575.531	COMMERCIAL FERTILIZER, ANALYSIS 12-12-12	TON	0.17	
504.602	ADJUST VALVE BOX	EACH	5	

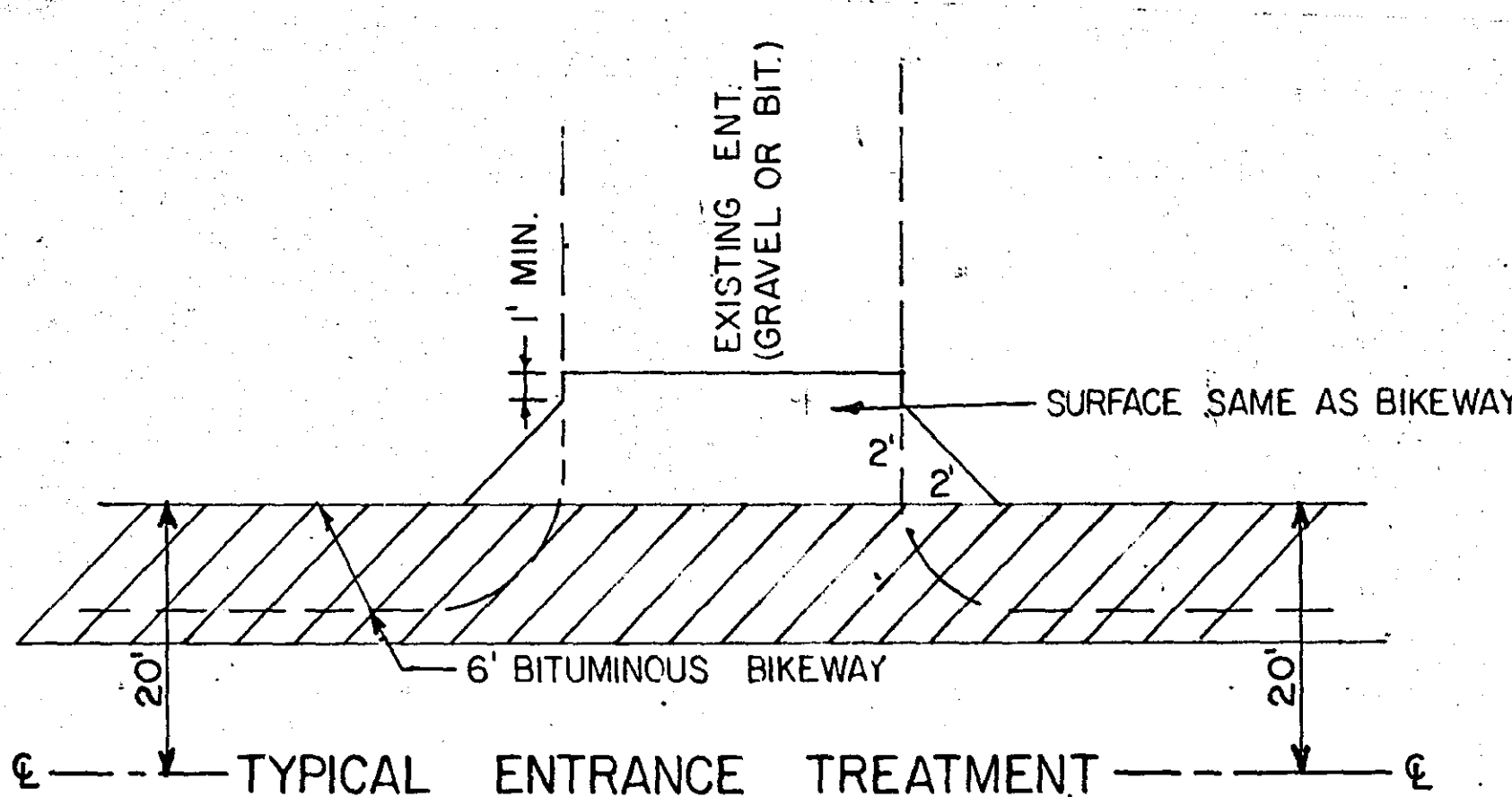
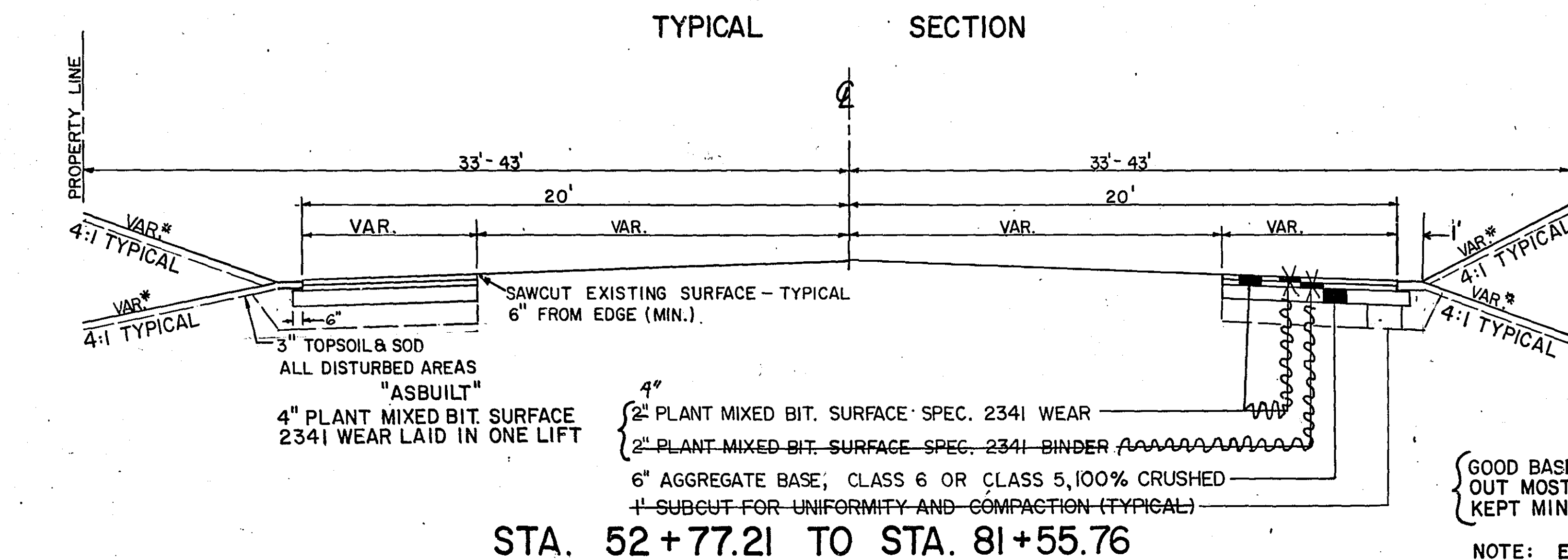
* LOCATIONS WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.

** INCLUDES 77 TONS FOR ENTRANCES.

*** INCLUDES 77 TONS FOR ENTRANCES.



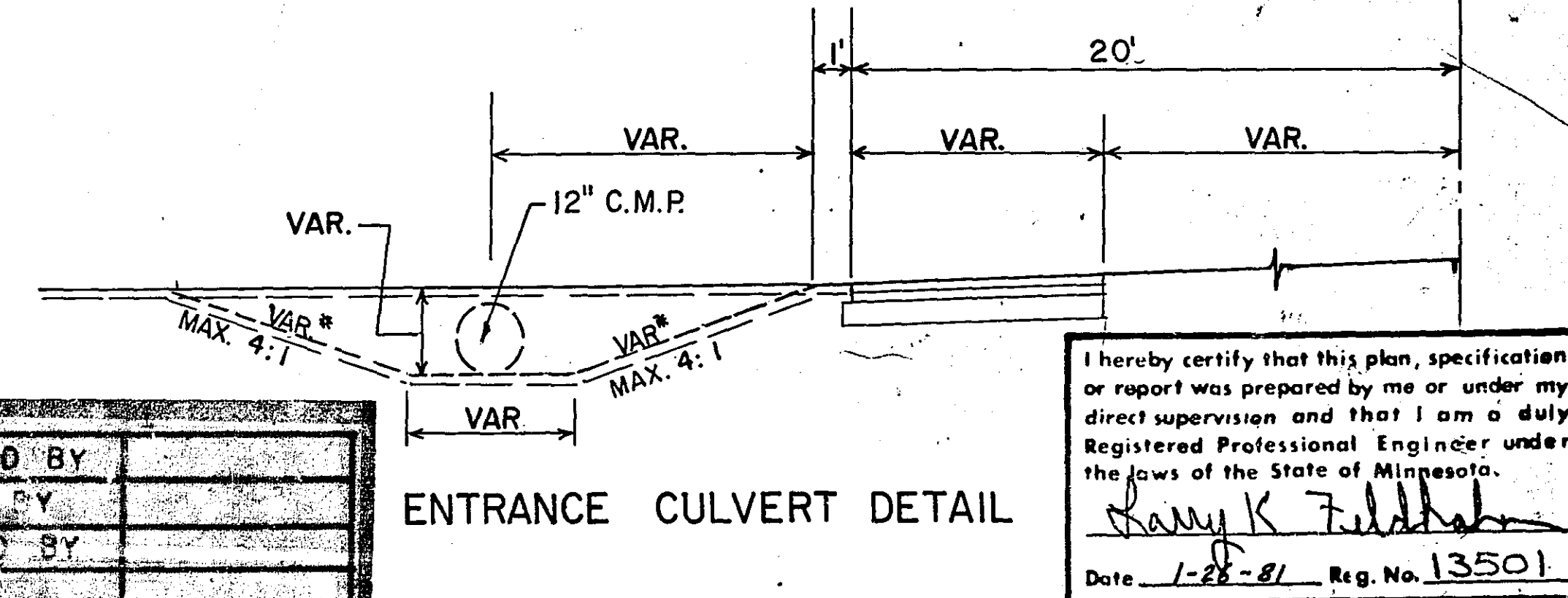
STANDARD DETAIL PLATES	
0003 A	SPECIFICATION REFERENCE TO STANDARD PLATES
3040 F	CORRUGATED METAL PIPE CULVERT
3123 H	METAL APRON FOR C.M. PIPE
7065 C	BITUMINOUS CURB
8000 H	STANDARD BARRICADES



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

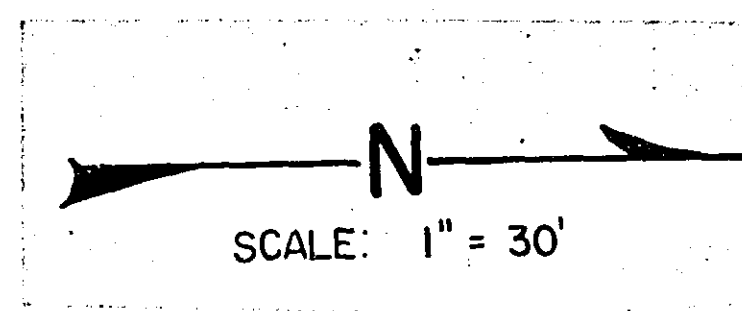
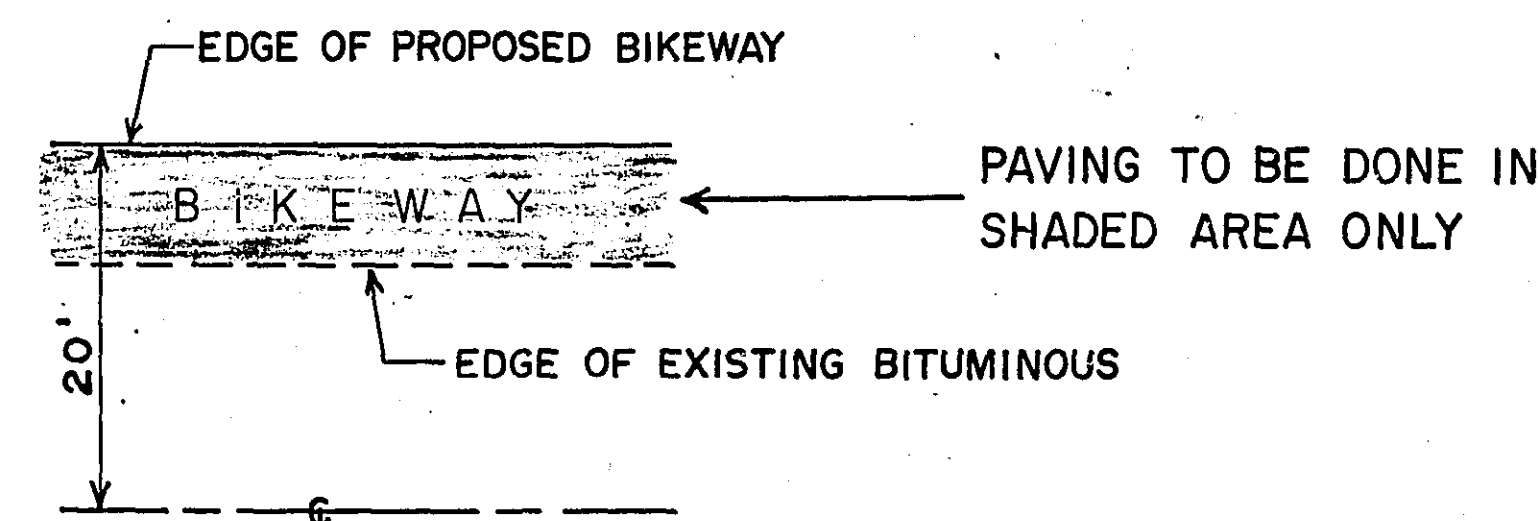
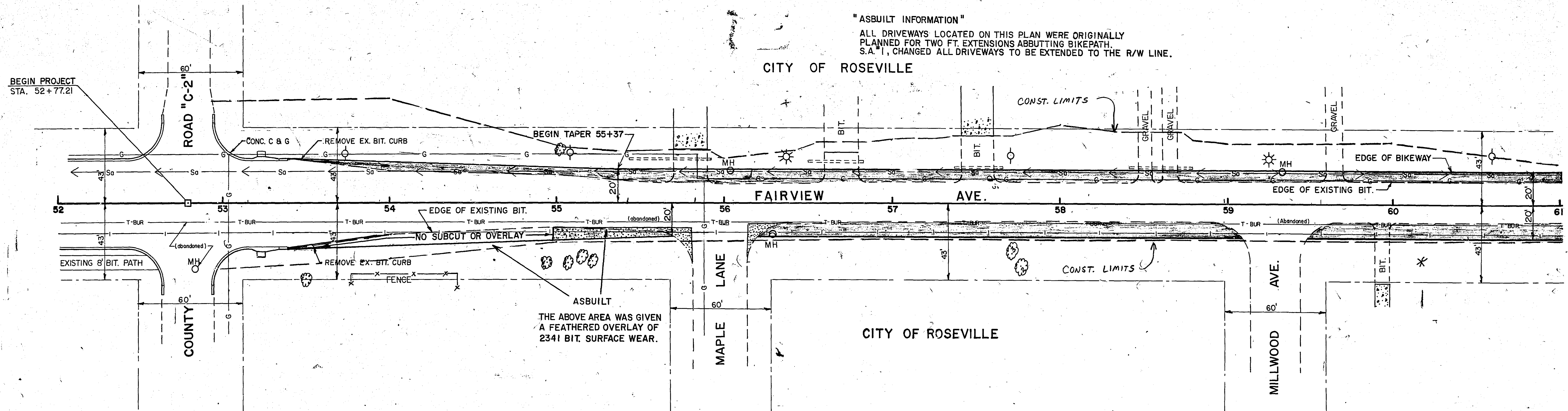
DONE BY: *GRP*
DATE: 1/28/82.

REVISED	DATE	DESIGNED BY
1	4-30-81	RSO
2	8-1-81	RSO
		DRAWN BY
		CHECKED BY



"ASBUILT INFORMATION"
ALL DRIVEWAYS LOCATED ON THIS PLAN WERE ORIGINALLY
PLANNED FOR TWO FT. EXTENSIONS ABUTTING BIKEPATH.
S.A. 1, CHANGED ALL DRIVEWAYS TO BE EXTENDED TO THE R/W LINE.

CITY OF ROSEVILLE



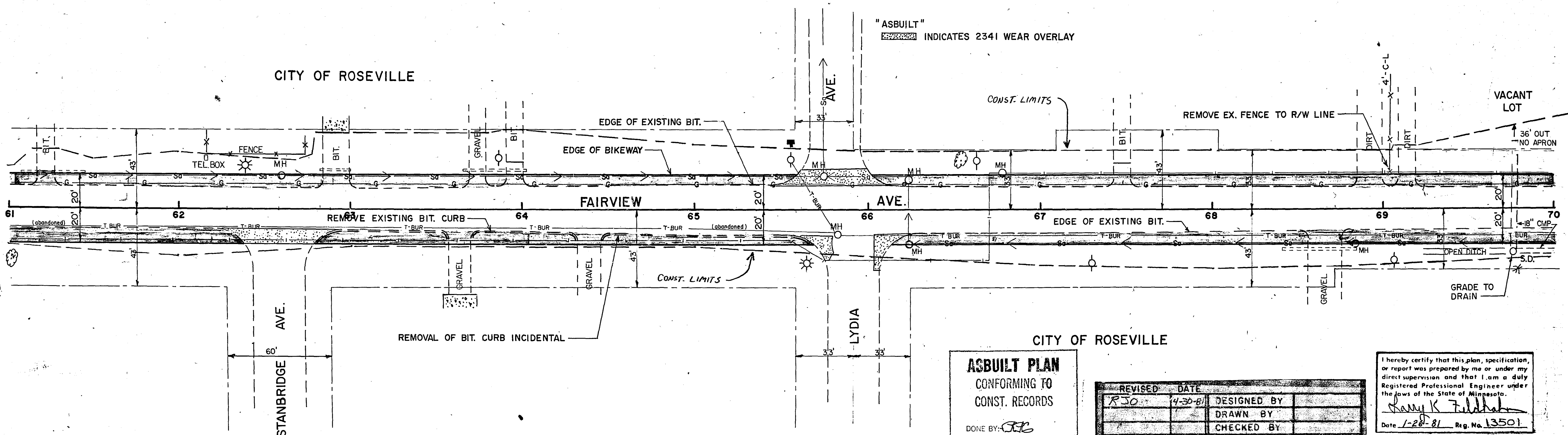
ADJUST MANHOLES

STA.	LT.	RT.
56+03	18'	
56+29		18'
59+33	18'	
62+60	18'	
66+23	16'	
66+23		19'
66+78	20'	
68+84		19'
* 69+77		24'

* INDICATES S.D.

NOTE: CONTRACTOR WILL SALVAGE
MAIL BOXES.

CITY OF ROSEVILLE



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DATE: 1/28/82

REVISED	DATE	DESIGNED BY
R30	4-30-81	
		DRAWN BY
		CHECKED BY

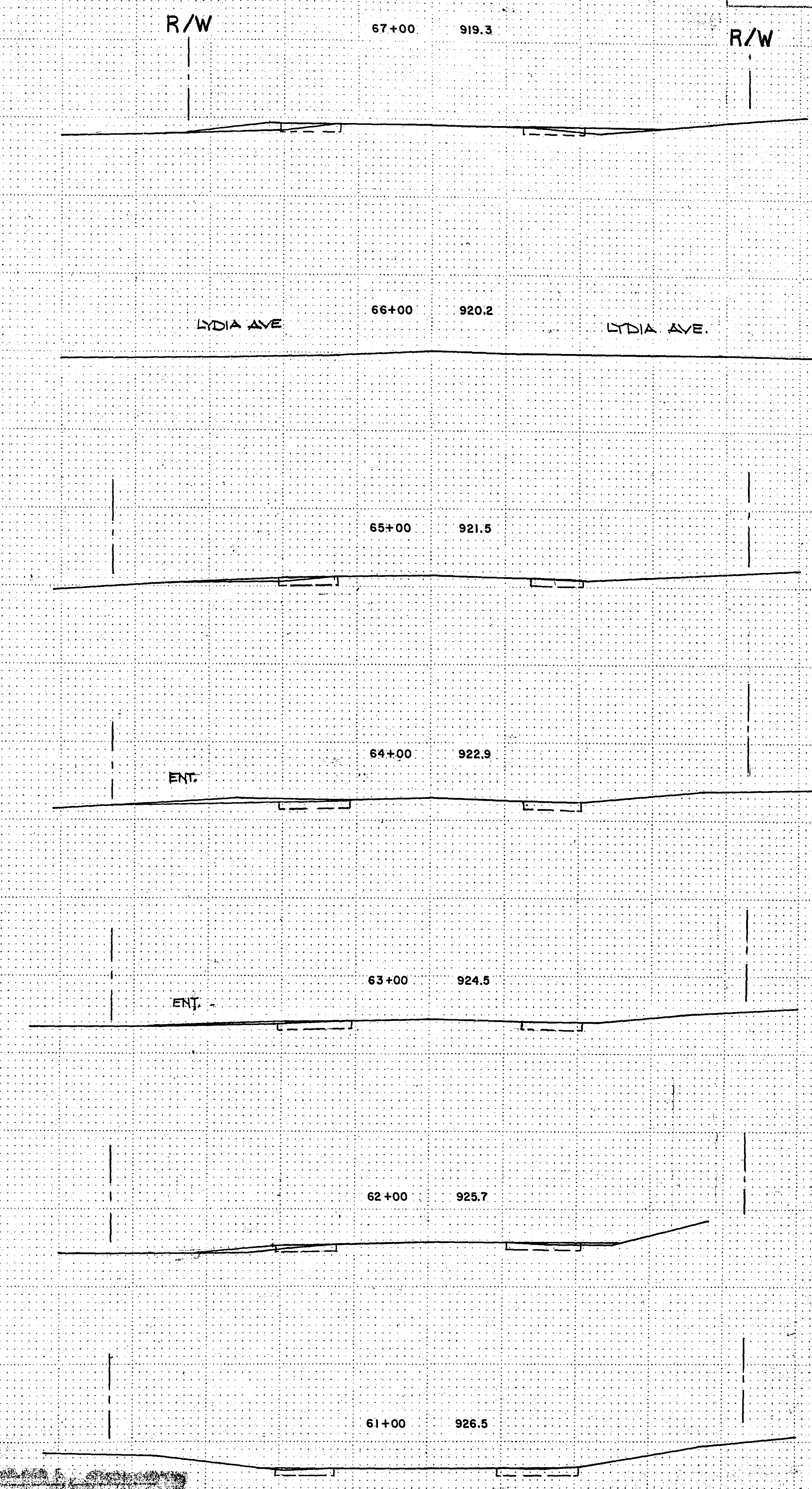
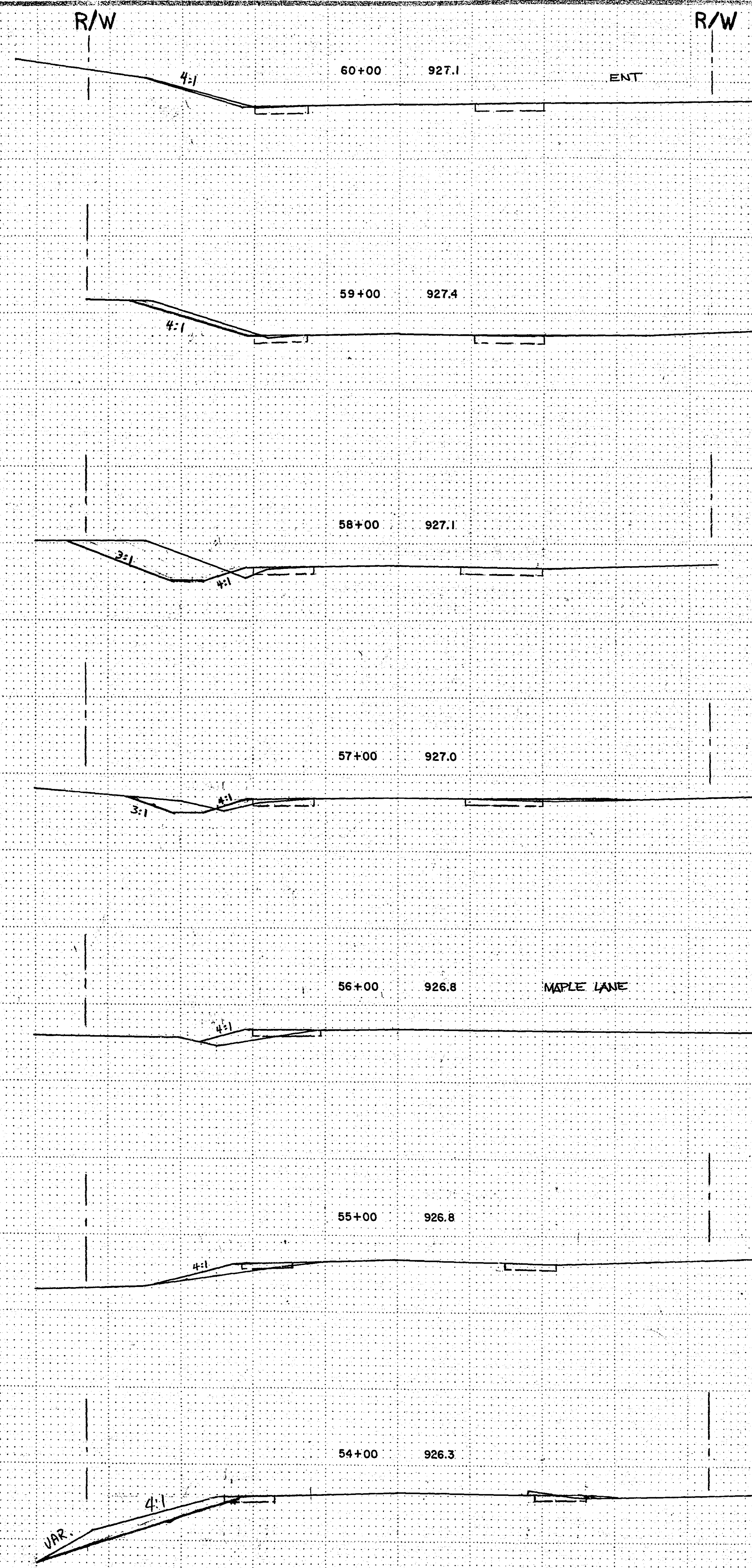
I hereby certify that this plan, specification,
or report was prepared by me or under my
direct supervision and that I am a duly
Registered Professional Engineer under
the laws of the State of Minnesota.
Danny K. Feldman
Date 1-28-81 Reg. No. 13501

S.A.P. 62-648-09

Sheet No. 3 of 6 Sheets

26-120

1"=10'



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: *GR*
DATE: 1/28/82

I hereby certify that this plan, specification, or report 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.

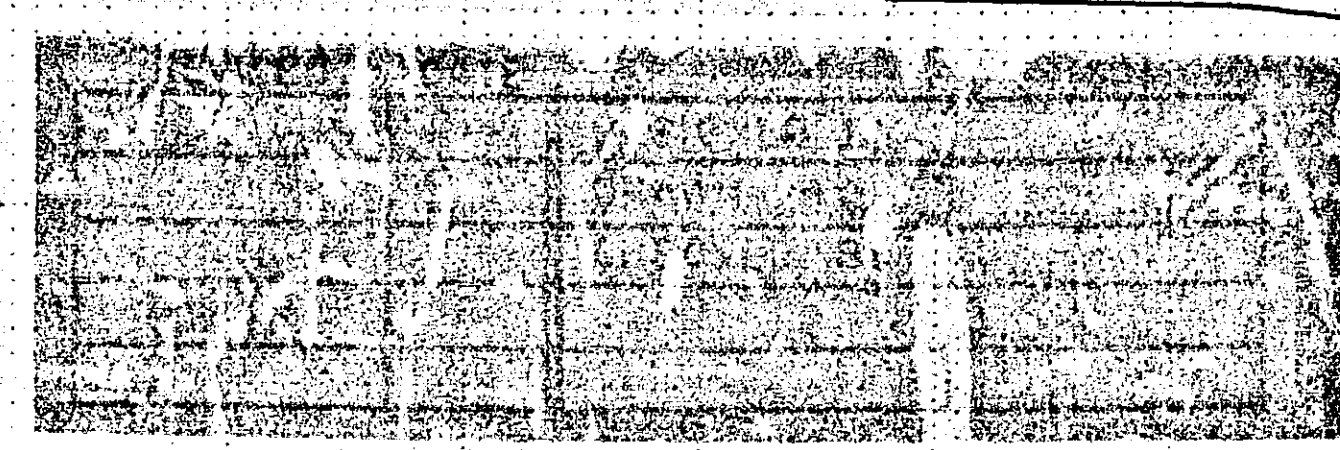
Randy K. Feldman
Date 1-28-82 Reg. No. 13501

NOTE: 1' SUBCUT NOT SHOWN ON X-SECTIONS

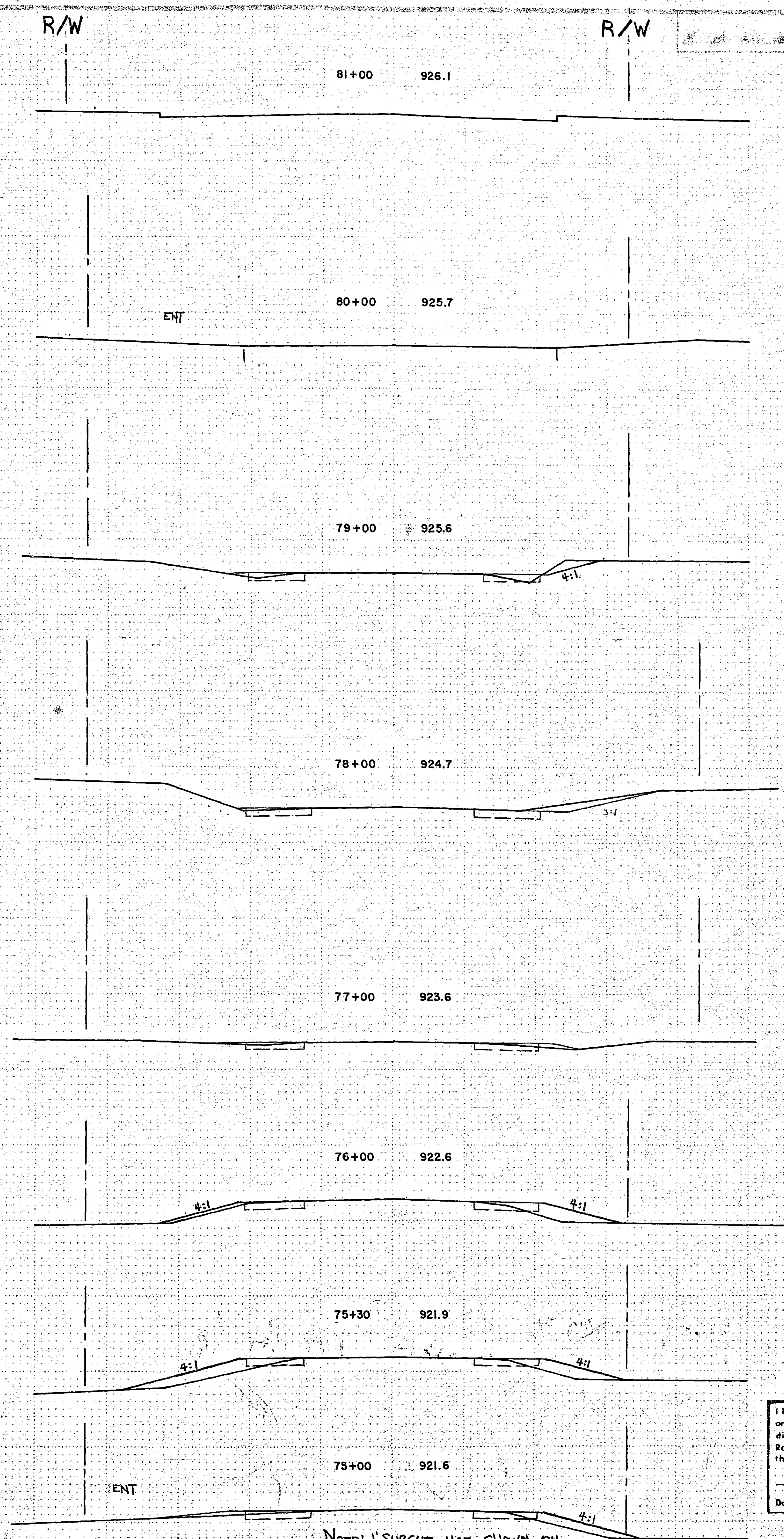
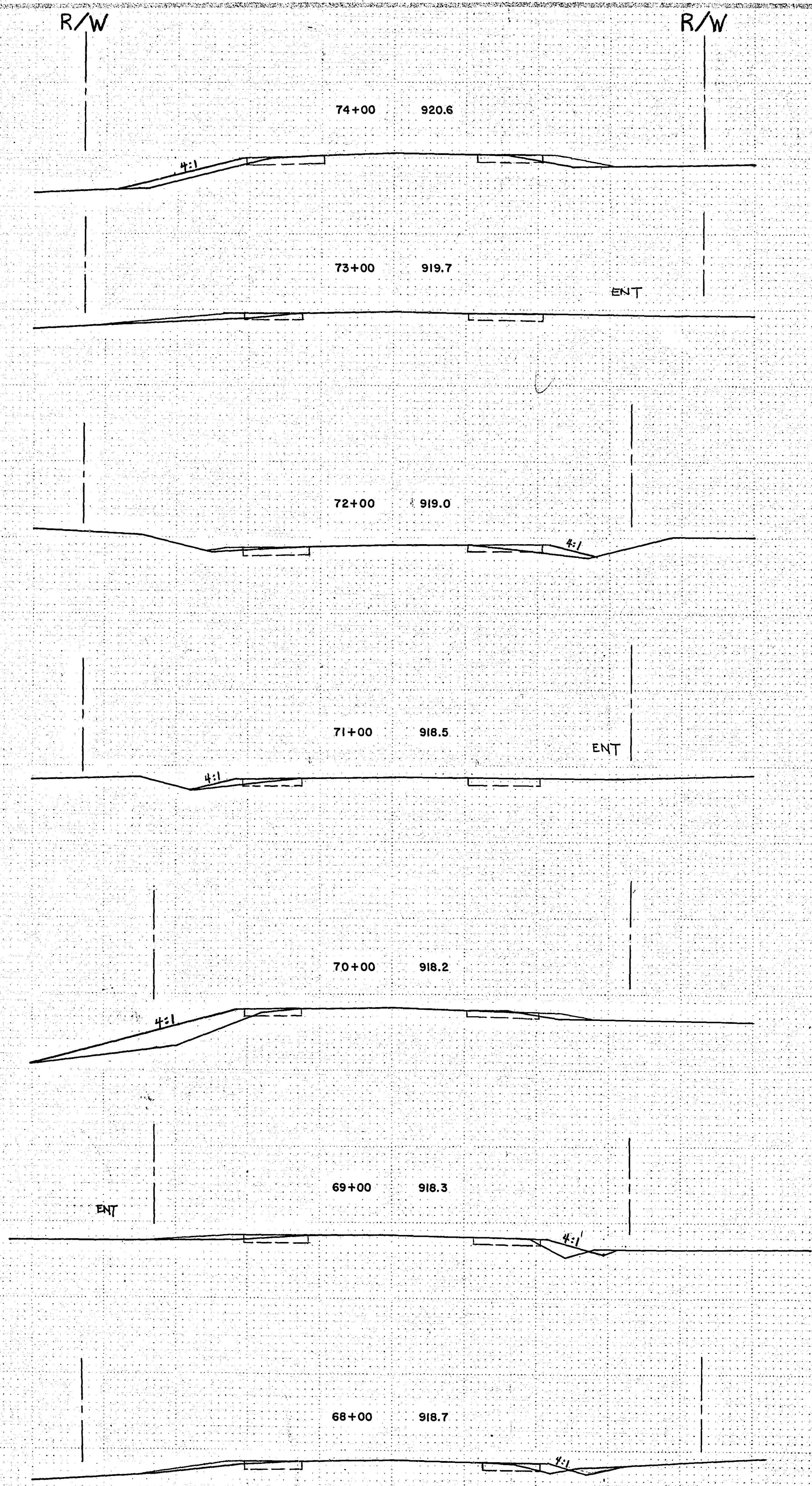
S.A.P. 62-648-09

Sheet No. 5 of 6 Sheets

26-120



PLAN VIEW
R/W
ENT



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: *RTB*
DATE: 1/28/82

I hereby certify that this plan, specification,
or report 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.
Barry K. Fildes
Date 1-28-82 Reg. No. 13501

NOTE: 1' SURCUT NOT SHOWN ON
X-SECTIONS

S.A.P. 62-648-09

Sheet No. 6 of 6 Sheets

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