

11-1-82 RIG
RNP

STATEMENT OF ESTIMATED QUANTITIES (WIDENING)				UNIT PRICE																
ITEM NO	ITEM	UNIT	ESTIMATED QUANTITIES		QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT
2021.501	MOBILIZATION	LUMP SUM	1	5200.00	1	5200.00														
2104.501	REMOVE CULVERT PIPE	L.F.	60	5.00	108	540.00														
2104.501	SALVAGE TRAFFIC BARRIER	L.F.	635	1.50	635	952.50														
2105.501	COMMON EXCAVATION	C.Y.	4611	3.50	4611	16,138.50														
2105.525	TOPSOIL BORROW	C.Y.	733	4.00	700	2,800.00														
2211.525	AGGREGATE BASE, CLASS 6 or 5 100% CRUSHED	TON	2829	6.85	2982.2	20,428.07														
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	108	190.00	98.81	18,773.90														
2341.508	WEARING COURSE MIXTURE FOR BIKEWAY	TON	895	12.50	1066.2	13,327.50														
2341.510	BINDER COURSE MIXTURE FOR BIKEWAY	TON	895	12.50	878.8	10,985.00														
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	388	1.10	280	308.00														
2358.501	BITUMINOUS MATERIAL FOR PRIME COAT	GAL.	2328	0.01	-	-														
2105.523	COMMON BORROW (L.V.)	C.Y.	500	3.50	-	-														
2501.515	15" R.C. PIPE APRONS	* EACH	1	180.00	1	180.00														
2503.511	15" R.C. PIPE SEWER, CL. IV	* L.F.	505	14.50	490	7,105.00														
2506.509	CONSTRUCT SURFACE DRAIN, DESIGN A OR F (A)	* EACH	2	600.00	2	1,200.00														
2506.522	ADJUST FRAME & RING CASTING	* EACH	8	90.00	1	90.00														
2511.503	GROUTED RIPRAP, CLASS A	* C.Y.	2.3	50.00	2.3	115.00														
2511.504	FILTER BLANKET, TYPE I	* C.Y.	1.2	20.00	1.2	24.00														
2535.501	BITUMINOUS CURB	L.F.	1745	1.80	1809	3,256.20														
2575.505	SODDING	S.Y.	8800	1.05	7110	7,465.50														
2575.531	COMMERCIAL FERTILIZER, ANALYSIS 12-12-12	TON	0.32	490.00	26	127.40														
2104.523	SALVAGE HYDRANT	EACH	1	350.00	-	-														
2506.508	CONSTRUCT MANHOLE TYPE A OR F (B)	* EACH	3	600.00	3	1,800.00														
2554.501	TRAFFIC BARRIER DESIGN A	L.F.	500	9.50	500	4,750.00														
0331.603	SAWING BITUMINOUS PAVEMENT SURFACE	L.F.	5876	0.60	6485	3,891.00														
504.602	ADJUST VALVE BOX	EACH	5	80.00	1	80.00														
554.607	TWISTED END TREATMENT	EACH	4	400.00	4	1,600.00														
504.602	INSTALL HYDRANT	EACH	1	400.00	-	-														
554.603	INSTALL TRAFFIC BARRIER	L.F.	535	4.50	535	2,407.50														
*	57.2 % State Aid Participation on Storm Sewer Items.																			
NON-PARTICIPATING STATEMENT OF ESTIMATED QUANTITIES																				
OVERLAY CENTER 20' - Co. R.&B. FUNDING																				
2341.504	BIT. MATERIAL FOR MIXTURE	TON	57	190.00	54.87	10,425.30														
2341.508	WEARING COURSE MIXTURE	TON	928	11.75	962.7	11,311.72														
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	400	1.10	200	220.00														
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BIKEWAY - EDGERTON ST. - CTY. RD. B² to LITTLE CANADA ROAD1-5-82 RLC
RHP

4-7-81 B.L. 5-1-81/4/83 5-6-81 SB 5-11-81 OCH

5-5-81 5/28/81

STATEMENT OF ESTIMATED QUANTITIES

FOREST LAKE CONT.

ITEM NO	ITEM	UNIT	ESTIMATED QUANTITIES	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
- WIDENING -							
2021.501	MOBILIZATION	LUMP SUM	1	5,200.00	5,200.00	5,200.00	5,200.00
2104.501	REMOVE CULVERT PIPE	L.F.	60	2.00	120.00	5.00	300.00
2104.501	SALVAGE TRAFFIC BARRIER	L.F.	635	2.25	1,428.75	1.50	952.50
2105.501	COMMON EXCAVATION	C.Y.	4611	3.50	16,138.50	3.50	16,138.50
2105.525	TOPSOIL BORROW	C.Y.	733	6.00	4,398.00	4.00	2,932.00
2211.525	AGGREGATE BASE, CLASS 6 or 5 (100% CRUSHED)	TON	2825	6.00	16,950.00	6.85	19,378.65
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	108	225.00	24,300.00	190.00	20,520.00
2341.508	WEARING COURSE MIXTURE FOR BIKEWAY	TON	895	22.00	19,690.00	12.50	11,187.50
2341.510	BINDER COURSE MIXTURE FOR BIKEWAY	TON	895	19.00	17,005.00	12.50	11,187.50
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	388	1.50	582.00	1.10	426.80
2358.501	BITUMINOUS MATERIAL FOR PRIME COAT	GAL.	2328	1.50	3,492.00	0.01	23.28
2105.523	COMMON BORROW (L.V.)	C.Y.	500	3.50	1,750.00	0.10	50.00
2501.515	15" R.C. PIPE APRONS	* EACH	1	270.00	270.00	180.00	180.00
2503.511	15" R.C. PIPE SEWER, CL. IV	* L.F.	505	19.00	9,595.00	14.50	7,322.50
2506.509	CONSTRUCT SURFACE DRAIN, DESIGN A OR F (A)	* EACH	2	800.00	1,600.00	600.00	1,200.00
2506.522	ADJUST FRAME & RING CASTING	* EACH	3	100.00	300.00	90.00	270.00
2511.503	GROUTED RIPRAP, CLASS A	* C.Y.	23	55.00	1,265.00	50.00	1,150.00
2511.504	FILTER BLANKET, TYPE I	* C.Y.	1.2	25.00	30.00	20.00	24.00
2535.501	BITUMINOUS CURB	* L.F.	1745	4.00	6,980.00	1.80	3,141.00
2575.505	SODDING	* S.Y.	8800	1.25	11,000.00	1.05	9,240.00
2575.531	COMMERCIAL FERTILIZER, ANALYSIS 12-12-12	TON	0.32	350.00	112.00	490.00	156.80
2104.523	SALVAGE HYDRANT	EACH	1	350.00	350.00	350.00	350.00
2506.508	CONSTRUCT MANHOLE TYPE A OR F (B)	* EACH	3	800.00	2,400.00	600.00	1,800.00
2554.501	TRAFFIC BARRIER DESIGN A	L.F.	500	11.20	5,600.00	9.50	4,750.00
0331.603	SAWING BITUMINOUS PAVEMENT SURFACE	L.F.	5876	0.85	4,994.60	0.60	3,525.60
504.602	ADJUST VALVE BOX	EACH	5	75.00	375.00	80.00	400.00
554.607	TWISTED END TREATMENT	EACH	4	500.00	2,000.00	400.00	1,600.00
504.602	INSTALL HYDRANT	EACH	1	600.00	600.00	400.00	400.00
554.603	INSTALL TRAFFIC BARRIER	L.F.	535	5.25	2,808.75	4.50	2,407.50
* STORM SEWER ITEMS \$14,021.50							
Δ 58.61% BIKE GRANT FUNDS - 8,218.00							
Balance 5,803.50							
Δ 57.2% C.S.A.H. FUNDS - 3,319.60							
Co. Rd. & Bridge Funds 2,483.90							
Δ PER REVISED ESTIMATE OF 8-13-81 BASED ON 6' SHOULDERS							
SUBTOTAL 160,520.10							
160,520.10							
SUBTOTAL 160,520.10							
125,629.13							

← Not considered Storm Sewer
by Min. D.O.T.

* Storm Sewer Items \$11,361.50
 Δ 58.61% Bike Grant Funds - 6,658.98
 Balance 4,702.52
 Δ 57.2% C.S.A.H. Funds - 2,689.84
 Co. Rd. & Bridge Funds \$2,012.68

\$11,361.50
 - 720.00
 10,641.50
 - 6,086.94 (57.2%)
 \$4,554.56

NON-PARTICIPATING STATEMENT OF ESTIMATED QUANTITIES

- OVERLAY CENTER 20' - Co. Rd. & B. FUNDING

ITEM NO	ITEM	UNIT	ESTIMATED QUANTITIES	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
2341.504	BIT. MATERIAL FOR MIXTURE	TON	57	225.00	12,825.00	190.00	10,830.00
2341.508	WEARING COURSE MIXTURE	TON	928	15.00	13,920.00	11.75	10,904.00
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	400	1.50	600.00	1.10	440.00
FUNDING OBLIGATIONS							
Co. Rd. & B. FUNDS SUB TOTAL 30,345.00							
22,174.00							
BIKE GRANT FUNDS \$94,080.83							
C.S.A.H. FUNDS 63,955.37							
Co. Road & Bridge Funds 32,828.90							
190,865.10							
GRAND TOTAL \$190,865.10							
\$147,803.13							

Funding Obligations

Bike Grant Funds \$73,631.23 \$70,961.81
 C.S.A.H. Funds 49,985.22 50,112.76
 Co. Road & Bridge Funds 24,186.68 26,728.56
 \$147,803.13 \$147,803.13

Revised as per K. Straus, Min. DOT

R.C.
3/26/82

26-103

STATEMENT OF ESTIMATED QUANTITIES (WIDENING)				AVERAGE 3	FOREST LAKE CONT.		H & S ASPHALT CO.		T.A. SCHIFFSKY & SONS		VALLEY PAVING INC.		ASHBACH CONST. CO.		ALEXANDER CONST. CO.		PALDA & SONS		TOTAL ASPHALT CONST.		SHAFFER CONTR. CO.	
ITEM NO	ITEM	UNIT	ESTIMATED QUANTITIES	LOWEST BIDDERS	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	LUMP SUM	1	4466.67	5200.00	5200.00	3500.00	3500.00	4700.00	4700.00	3000.00	3000.00	6000.00	6000.00	2500.00	2500.00	14520.00	14520.00	7000.00	7000.00	15000.00	15000.00
2104.501	REMOVE CULVERT PIPE	L.F.	60	1.81	5.00	300.00	2.75	165.00	2.62	157.20	2.62	157.20	4.00	240.00	2.65	159.00	3.00	180.00	3.00	180.00	4.00	240.00
2104.501	SALVAGE TRAFFIC BARRIER	L.F.	635	1.56	1.50	952.50	1.60	1,016.00	1.57	996.95	1.55	984.25	1.80	1,143.00	1.65	1,047.75	1.50	952.50	2.00	1,270.00	1.50	952.50
2105.501	COMMON EXCAVATION	C.Y.	4611	3.23	3.50	16,138.50	3.00	13,833.00	3.20	14,755.20	3.27	15,077.97	2.45	11,296.95	3.25	14,985.75	3.00	13,833.00	3.50	16,138.50	2.75	12,680.25
2105.525	TOPSOIL BORROW	C.Y.	733	4.36	4.00	2,932.00	5.00	3,665.00	4.09	2,997.97	5.35	3,921.65	7.00	5,131.00	5.95	4,361.35	5.00	3,665.00	6.50	4,764.50	6.00	4,398.00
2211.525	AGGREGATE BASE, CLASS 6 or 5 100% CRUSHED	TON	2829	6.07	6.85	19,378.65	6.10	17,256.90	5.25	14,852.25	6.88	19,463.52	4.45	12,589.05	5.75	16,266.75	7.00	19,803.00	7.00	19,803.00	7.00	19,803.00
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	108	188.33	190.00	20,520.00	190.00	20,520.00	185.00	19,980.00	185.00	19,980.00	200.00	21,600.00	190.00	20,520.00	190.00	20,520.00	200.00	21,600.00	190.00	20,520.00
2341.508	WEARING COURSE MIXTURE FOR BIKEWAY	TON	895 *	12.26	12.50	11,187.50	12.00	10,740.00	12.27	10,981.65	12.94	11,581.30	14.50	12,977.50	16.30	14,588.50	12.31	11,017.45	12.75	11,411.25	12.50	11,187.50
2341.510	BINDER COURSE MIXTURE FOR BIKEWAY	TON	895 *	12.22	12.50	11,187.50	12.00	10,740.00	12.17	10,892.15	13.00	11,635.00	14.40	12,888.00	15.75	14,096.25	12.31	11,017.45	11.90	10,650.50	12.50	11,187.50
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	388	1.23	1.10	426.80	1.10	426.80	1.50	582.00	1.25	485.00	1.30	504.40	1.25	485.00	1.33	516.09	2.00	776.00	1.10	426.80
2358.501	BITUMINOUS MATERIAL FOR PRIME COAT	GAL.	2328	46	0.01	23.28	0.01	23.28	1.35	3,142.80	1.20	2,793.60	0.50	1,164.00	0.90	2,095.20	0.10	232.80	0.50	1,164.00	0.01	23.28
2105.523	COMMON BORROW (L.V.)	C.Y.	500	3.12	0.10	50.00	4.50	2,250.00	4.77	2,385.00	4.85	2,425.00	3.45	1,725.00	3.80	1,900.00	4.00	2,000.00	4.50	2,250.00	4.75	2,375.00
2501.515	15" R.C. PIPE APRONS	EACH	1	283.75	180.00	180.00	330.00	330.00	341.25	341.25	330.00	330.00	385.00	385.00	350.00	350.00	300.00	300.00	400.00	400.00	250.00	250.00
2503.511	15" R.C. PIPE SEWER, CL. IV	L.F.	505	19.84	14.50	7,322.50	22.50	11,362.50	22.52	11,372.60	22.00	11,110.00	25.00	12,625.00	23.20	11,716.00	21.00	10,605.00	28.00	14,140.00	24.00	12,240.00
2506.509	CONSTRUCT SURFACE DRAIN, DESIGN A OR F (A)	EACH	2	626.67	600.00	1,200.00	650.00	1,300.00	630.00	1,260.00	650.00	1,300.00	750.00	1,500.00	650.00	1,300.00	700.00	1,400.00	950.00	1,900.00	700.00	1,400.00
2506.522	ADJUST FRAME & RING CASTING	EACH	8	108.33	90.00	720.00	85.00	680.00	150.00	1,200.00	120.00	960.00	60.00	480.00	150.00	1,200.00	150.00	1,200.00	100.00	800.00	150.00	1,200.00
2511.503	GROUTED RIPRAP, CLASS A	C.Y.	2.3	68.58	50.00	115.00	80.00	184.00	78.75	181.12	80.00	184.00	90.00	207.00	80.00	160.00	138.00	100.00	230.00	60.00	138.00	
2511.504	FILTER BLANKET, TYPE I	C.Y.	1.2	27.83	20.00	24.00	32.00	38.40	31.50	37.80	32.00	38.40	35.00	42.00	33.00	39.60	30.00	36.00	25.00	30.00	40.00	
2535.501	BITUMINOUS CURB	L.F.	1745	1.62	1.80	3,141.00	1.80	3,141.00	1.25	2,181.25	3.00	5,235.00	1.95	3,402.75	2.00	3,490.00	1.35	2,355.75	1.85	3,228.25	1.80	3,141.00
2575.505	SODDING	S.Y.	8800	1.11	1.05	9,240.00	1.15	10,120.00	1.12	9,856.00	1.20	10,560.00	1.35	11,880.00	1.17	10,296.00	1.14	10,032.00	1.25	11,000.00	1.15	10,120.00
2575.531	COMMERCIAL FERTILIZER, ANALYSIS 12-12-12	TON	0.32	430.00	490.00	156.80	300.00	96.00	500.00	160.00	500.00	160.00	350.00	112.00	540.00	172.80	300.00	96.00	330.00	105.60	500.00	
2104.523	SALVAGE HYDRANT	EACH	1	137.08	350.00	350.00	35.00	35.00	26.25	26.25	25.00	25.00	30.00	30.00	27.00	27.00	325.00	325.00	500.00	500.00	225.00	225.00
2506.508	CONSTRUCT MANHOLE TYPE A OR F (B)	EACH	3	709.00	600.00	1,800.00	750.00	2,250.00	77.00	2,331.00	755.00	2,265.00	875.00	2,625.00	800.00	2,400.00	700.00	2,100.00	950.00	2,850.00	950.00	2,850.00
2554.501	TRAFFIC BARRIER DESIGN A	L.F.	500	9.82	9.50	4,750.00	10.00	5,000.00	9.97	4,985.00	9.80	4,900.60	11.25	5,625.00	10.25	5,125.00	9.50	4,750.00	10.00	5,000.00	9.50	4,750.00
0331.603	SAWING BITUMINOUS PAVEMENT SURFACE	L.F.	5876	43	0.60	3,525.60	0.45	2,644.20	0.25	1,469.00	0.40	2,350.40	0.60	3,525.60	0.50	2,938.00	0.67	3,936.92	0.42	2,467.92	1.75	10,283.00
504.602	ADJUST VALVE BOX	EACH	5	63.33	80.00	400.00	65.00	325.00	45.00	225.00	100.00	500.00	60.00	300.00	65.00	325.00	75.00	375.00	50.00	250.00	90.00	450.00
554.607	TWISTED END TREATMENT	EACH	4	415.00	400.00	1,600.00	425.00	1,700.00	420.00	1,680.00	415.15	1,660.60	475.00	1,900.00	432.00	1,728.00	400.00	1,600.00	450.00	1,800.00	400.00	1,600.00
504.602	INSTALL HYDRANT	EACH	1	153.75	400.00	400.00	35.00	35.00	26.25	26.25	35.00	35.00	30.00	30.00	27.00	27.00	800.00	800.00	500.00	500.00	400.00	400.00
554.603	INSTALL TRAFFIC BARRIER	L.F.	535	4.66	4.50	2,407.50	4.75	2,541.25	4.72	2,525.20	4.60	2,461.00	5.25	2,808.75	4.85	2,594.75	4.50	2,407.50	5.00	2,675.00	4.50	2,407.50
NON-PARTICIPATING STATEMENT OF ESTIMATED QUANTITIES OVERLAY CENTER 20'- Co. R&B FUNDING																						
2341.504	BIT. MATERIAL FOR MIXTURE	TON	57	187.33	190.00	10,830.00	190.00	10,830.00	185.00	10,545.00	185.00	10,545.00	200.00	11,400.00	190.00	10,830.00	190.00	10,830.00	200.00	11,400.00	190.00	10,830.00
2341.508	WEARING COURSE MIXTURE	TON	928	11.84	11.75	10,904.00	11.50	10,672.00	12.27	11,386.56	11.95	11,089.60	14.50	13,456.00	13.35	12,388.80	12.31	11,423.68	12.75	11,832.00	11.75	10,904.00
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	400	1.23	1.10	440.00	1.10	440.00	1.50	600.00	1.00	400.00	1.30	520.00	1.25	500.00	1.33	532.00	1.50	600.00	1.10	440.00
						\$ 147,803.13		\$ 147,860.33		\$ 148,812.45		\$ 157,613.39		\$ 160,113.00		\$ 160,637.50		\$ 163,500.09		\$ 168,716.52		\$ 172,510.33

STATEMENT OF ESTIMATED QUANTITIES (WIDENING)				AVERAGE 3 LOWEST BIDDERS	C.S. McCROSSAN		DAILY & SON INC.		BITUMINOUS ROADWAYS		BARBER CONST. CO.									
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
2021.501	MOBILIZATION	LUMP SUM	1		4466.67	10,500.00	10,500.00	900.00	900.00	5000.00	5,000.00	2500.00	2,500.00							
2104.501	REMOVE CULVERT PIPE	L.F.	60		1.81	2.65	159.00	2.75	165.00	2.75	165.00	4.00	240.00							
2104.501	SALVAGE TRAFFIC BARRIER	L.F.	635		1.56	1.60	1,016.00	2.00	1,270.00	1.65	1,047.75	2.20	1,397.00							
2105.501	COMMON EXCAVATION	C.Y.	4611		3.23	4.95	22,824.45	4.00	18,444.00	4.50	20,749.50	4.00	18,444.00							
2105.525	TOPSOIL BORROW	C.Y.	733		4.36	6.50	4,764.50	5.00	3,665.00	6.35	4,654.55	5.90	4,324.70							
2211.525	AGGREGATE BASE, CLASS 6 or 5 100% CRUSHED	TON	2829		6.07	7.20	20,368.80	6.40	18,105.60	7.80	22,066.20	7.80	22,066.20							
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	108		188.33	185.00	19,980.00	205.00	22,140.00	200.00	21,600.00	180.00	19,440.00							
2341.508	WEARING COURSE MIXTURE FOR BIKEWAY	TON	895 *		12.26	13.90	12,440.50	19.00	17,005.00	14.25	12,753.75	16.50	14,767.50							
2341.510	BINDER COURSE MIXTURE FOR BIKEWAY	TON	895 *		12.22	13.90	12,440.50	18.50	16,557.50	18.40	16,468.00	16.00	14,320.00							
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	388		1.23	2.00	776.00	1.40	543.20	2.00	776.00	1.30	504.40							
2358.501	BITUMINOUS MATERIAL FOR PRIME COAT	GAL.	2328		46	0.01	23.28	1.40	3,259.20	1.65	3,841.20	1.30	3,026.40							
2105.523	COMMON BORROW (L.V.)	C.Y.	500		3.12	4.95	2,475.00	5.00	2,500.00	2.50	1,250.00	6.00	3,000.00							
2501.515	15" R.C. PIPE APRONS	EACH	1		283.75	345.00	345.00	360.00	360.00	360.00	360.00	310.00	310.00							
2503.511	15" R.C. PIPE SEWER, CL. IV	L.F.	505		19.84	22.50	11,362.50	23.50	11,867.50	23.60	11,918.00	30.00	15,150.00							
2506.509	CONSTRUCT SURFACE DRAIN, DESIGN A OR F (A)	EACH	2		626.67	630.00	1,260.00	660.00	1,320.00	660.00	1,320.00	1,125.00	2,250.00							
2506.522	ADJUST FRAME & RING CASTING	EACH	8		108.33	150.00	1,200.00	50.00	400.00	100.00	800.00	100.00	800.00							
2511.503	GROUTED RIPRAP, CLASS A	C.Y.	2.3		68.58	100.00	230.00	85.00	195.50	85.00	195.50	60.00	138.00							
2511.504	FILTER BLANKET, TYPE I	C.Y.	1.2		27.83	30.00	36.00	33.00	39.60	35.00	42.00	30.00	36.00							
2535.501	BITUMINOUS CURB	L.F.	1745		1.62	3.00	5,235.00	2.50	4,362.50	2.25	3,926.25	1.65	2,879.25							
2575.505	SODDING	S.Y.	8800		1.11	1.20	10,560.00	1.40	12,320.00	1.20	10,560.00	1.22	10,736.00							
2575.531	COMMERCIAL FERTILIZER, ANALYSIS 12-12-12	TON	0.32		430.00	315.00	100.80	500.00	160.00	650.00	176.00	500.00	160.00							
2104.523	SALVAGE HYDRANT	EACH	1		137.08	25.00	25.00	30.00	30.00	30.00	30.00	300.00	300.00							
2506.508	CONSTRUCT MANHOLE TYPE A OR F (B)	EACH	3		707.00	777.00	2,331.00	800.00	2,400.00	825.00	2,475.00	975.00	2,925.00							
2554.501	TRAFFIC BARRIER DESIGN A	L.F.	500		9.82	10.00	5,000.00	10.50	5,250.00	10.50	5,250.00	11.25	5,625.00							
0331.603	SAWING BITUMINOUS PAVEMENT SURFACE	L.F.	5876		43	0.30	1,762.80	0.50	2,938.00	0.75	4,407.00	2.75	16,159.00							
504.602	ADJUST VALVE BOX	EACH	5		63.33	100.00	500.00	100.00	500.00	90.00	450.00	100.00	500.00							
554.607	TWISTED END TREATMENT	EACH	4		415.00	420.00	1,680.00	500.00	2,000.00	440.00	1,760.00	610.00	2,440.00							
504.602	INSTALL HYDRANT	EACH	1		153.75	25.00	25.00	30.00	30.00	30.00	30.00	500.00	500.00							
554.603	INSTALL TRAFFIC BARRIER	L.F.	535		4.66	4.75	2,541.25	5.00	2,675.00	5.00	2,675.00	7.00	3,745.00							
NON-PARTICIPATING STATEMENT OF ESTIMATED QUANTITIES OVERLAY CENTER 20' - Co. R&B FUNDING																				
2341.504	BIT. MATERIAL FOR MIXTURE	TON	57		187.33	185.00	10,545.00	205.00	11,685.00	200.00	11,400.00	180.00	10,260.00							
2341.508	WEARING COURSE MIXTURE	TON	928		11.84	13.90	12,899.20	18.07	16,768.96	14.25	13,224.00	16.00	14,848.00							
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	400		1.23	2.00	800.00	1.50	600.00	2.00	800.00	1.30	520.00							
TOTAL						\$ 176,206.58		\$ 180,456.56		\$ 182,170.70		\$ 194,311.45								

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

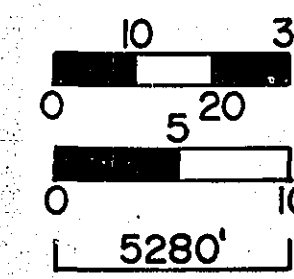
SPRINGS
MARSH
TIMBER
ORCHARD
BRUSH
NURSERY
CATCH BASIN
FIRE HYDRANT
CATTLE GUARD
OVERPASS (Highway Over)
UNDERPASS (Highway Under)
BRIDGE
BUILDING (One Story Frame)
F FRAME C CONCRETE
S STONE T TILE
B BRICK ST STUCCO
IRON PIPE OR ROD
MONUMENT (STONE, CONCRETE, OR METAL)
WOODEN HUB
GRAVEL PIT
SAND PIT
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-MAINHOLE
ELECTRIC MAINHOLE
BURIED TELEPHONE CABLE
BURIED ELECTRIC CABLE
AERIAL TELEPHONE CABLE
SEWER, (SANITARY OR STORM)
SEWER MAINHOLE

PLAN
CROSS-SECTIONS
LAYOUT



GROSS LENGTH 3,305 FEET = .6259 MILES
BRIDGES - LENGTH 0 FEET = 0 MILES
EXCEPTIONS - LENGTH 0 FEET = 0 MILES
NET LENGTH 3,305 FEET = .6259 MILES

RAMSEY COUNTY DEPARTMENT OF PUBLIC WORKS

EDGERTON STREET BIKEWAY

CONSTRUCTION PLAN FOR BITUMINOUS BIKEWAY
BETWEEN: COUNTY ROAD "B-2" AND LITTLE CANADA RD.
S.A.P. NO. 62-658-02

DESIGN DESIGNATION

ADT 1980 - 4,950
2000 - 6,000
DESIGN LOAD 9 TON
DESIGN SPEED 30 M.P.H.

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED QUANTITIES & TYPICAL SECTION
3-4	PLAN SHEETS
5-10	CROSS-SECTIONS

END PROJECT
STA. 105+29.30

BEGIN PROJECT
STA. 71+60

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 2-11-81 REG. NO. 13501 ENGR. Larry Feldbach

RECOMMENDED FOR APPROVAL _____ DATE 2-11-81
TRAFFIC ENGR.

RECOMMENDED FOR APPROVAL _____ DATE 2-27-81
COUNTY ENGINEER

RECOMMENDED FOR APPROVAL _____ DATE 2/27/81
ENV. ENGR.

APPROVED _____ DATE 10/26/81
CHAIRMAN OF THE RAMSEY COUNTY BOARD

RECOMMENDED FOR APPROVAL _____ DATE 2/27/81
MAINT. ENGR.

APPROVED _____ DATE 4/22/81
CITY OF LITTLE CANADA

RECOMMENDED FOR APPROVAL _____ DATE 2/27/81
CORRAL ENGR.

APPROVED _____ DATE _____

RECOMMENDED FOR APPROVAL _____ DATE _____
DESIGN ENGR.

MINNESOTA DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL _____ DATE 4-10-81
S.O.V. ENGR.

RECOMMENDED FOR APPROVAL _____ DATE 2-3-81

APPROVED _____ DATE 4-10-81
COORDINATING ENGR.

RECOMMENDED FOR APPROVAL _____ DATE 6/8/81
DISTRICT STATE AID ENGINEER

APPROVAL _____ DATE 9-8-81
FOR DIRECTOR OFFICE OF STATE AID

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: M.L.
DATE: 2/22/83

PLAN REVISIONS		
DATE	SHEET NO.	BY
4-10-81	2, 3, 4 & 10	HL
5-6-81	2, 3, 4 & 10	B.J.
5-13-81	1, 2, 3, 4	R.S.O.

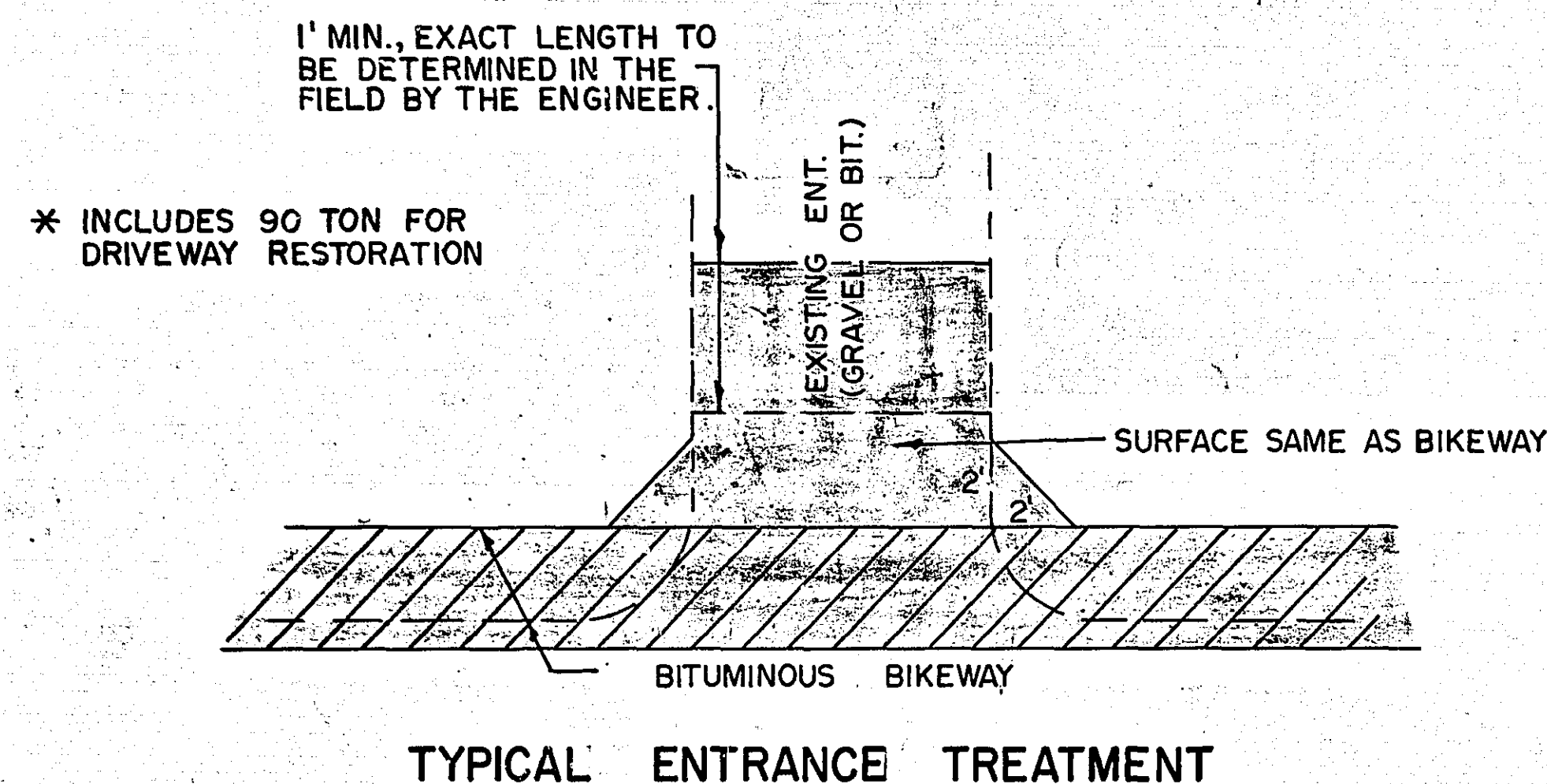
THE 1978 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" SHALL GOVERN.

STATEMENT OF ESTIMATED QUANTITIES (WIDENING)				
ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITIES	FINAL ESTIMATED QUANTITIES
2021.501	MOBILIZATION	LUMP SUM	1	1
2104.501	REMOVE CULVERT PIPE	L.F.	60	
2104.501	SALVAGE TRAFFIC BARRIER	L.F.	635	
2105.501	COMMON EXCAVATION	C.Y.	4611	
2105.525	TOPSOIL BORROW	C.Y.	733	
2211.525	AGGREGATE BASE, CLASS 6 or 5 100% CRUSHED	TON	2829	
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	108	
2341.508	WEARING COURSE MIXTURE FOR BIKEWAY	TON	895 *	
2341.510	BINDER COURSE MIXTURE FOR BIKEWAY	TON	895 *	
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	388	
2358.501	BITUMINOUS MATERIAL FOR PRIME COAT	GAL.	2328	
2105.523	COMMON BORROW (L.V.)	C.Y.	500	
2501.515	15" R.C. PIPE APRONS	EACH	1	
2503.511	15" R.C. PIPE SEWER, CL. IV	L.F.	505	
2506.509	CONSTRUCT SURFACE DRAIN, DESIGN A OR F (A)	EACH	2	
2506.522	ADJUST FRAME & RING CASTING	EACH	8	
2511.503	GROUTED RIPRAP, CLASS A	C.Y.	2.3	
2511.504	FILTER BLANKET, TYPE I	C.Y.	1.2	
2535.501	BITUMINOUS CURB	L.F.	1745	
2575.505	SODDING	S.Y.	8800	
2575.531	COMMERCIAL FERTILIZER, ANALYSIS 12-12-12	TON	0.32	
2104.523	SALVAGE HYDRANT	EACH	1	
2506.508	CONSTRUCT MANHOLE TYPE A OR F (B)	EACH	3	
2554.501	TRAFFIC BARRIER DESIGN A	L.F.	500	
0331.603	SAWING BITUMINOUS PAVEMENT SURFACE	L.F.	5876	
504.602	ADJUST VALVE BOX	EACH	5	
554.607	TWISTED END TREATMENT	EACH	4	
504.602	INSTALL HYDRANT	EACH	1	
554.603	INSTALL TRAFFIC BARRIER	L.F.	535	

NON-PARTICIPATING STATEMENT OF ESTIMATED QUANTITIES OVERLAY CENTER 20' - Co. R & B FUNDING

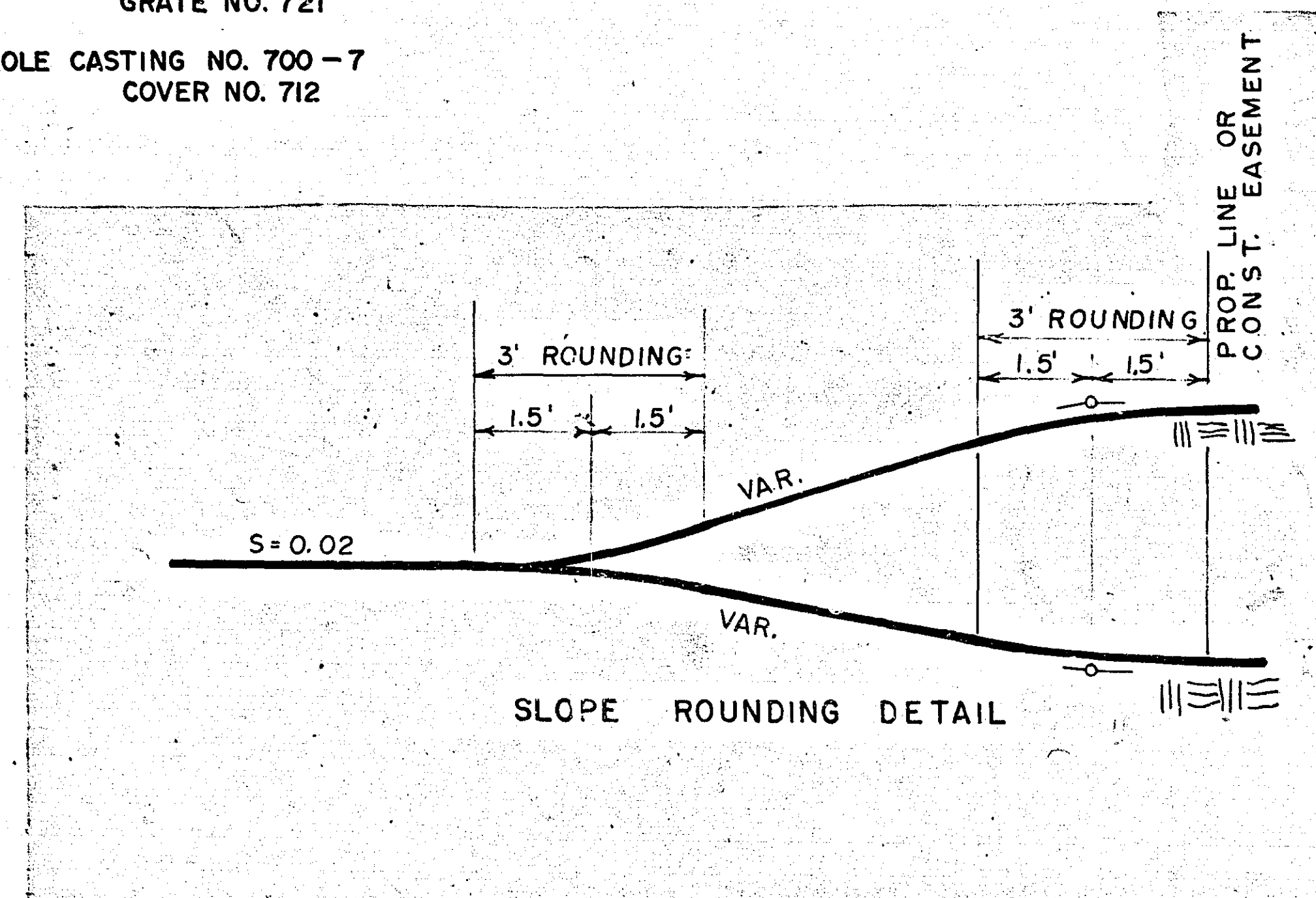
2341.504	BIT. MATERIAL FOR MIXTURE	TON	57
2341.508	WEARING COURSE MIXTURE	TON	928
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	400

NOTE: THE CONTRACTOR IS ADVISED THAT HE MAY USE AGGREGATE BASE, CLASS 6 OR, AS AN ALTERNATE, HE MAY USE 100% CRUSHED MATERIAL WHICH MEETS THE REQUIREMENTS OF CLASS 5 IN TABLE 3138-1 OF THE MN/DOT STANDARD SPECIFICATIONS.

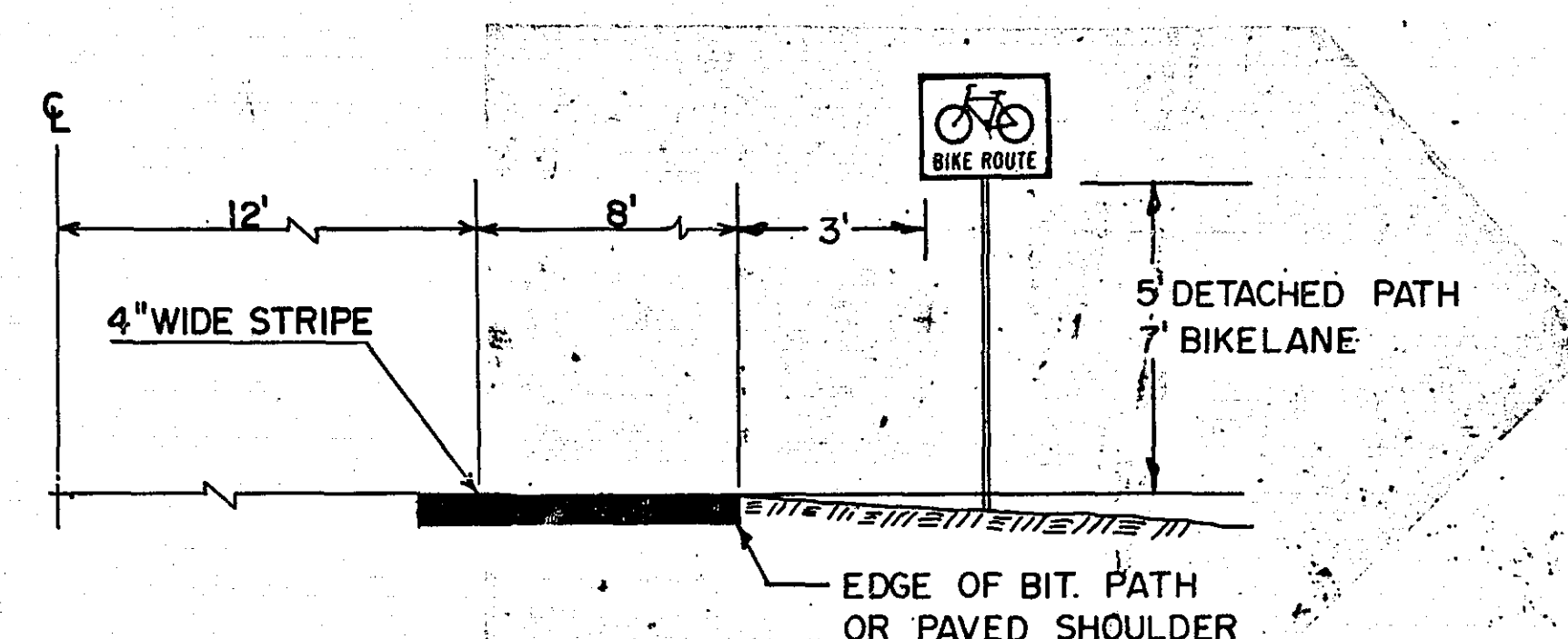
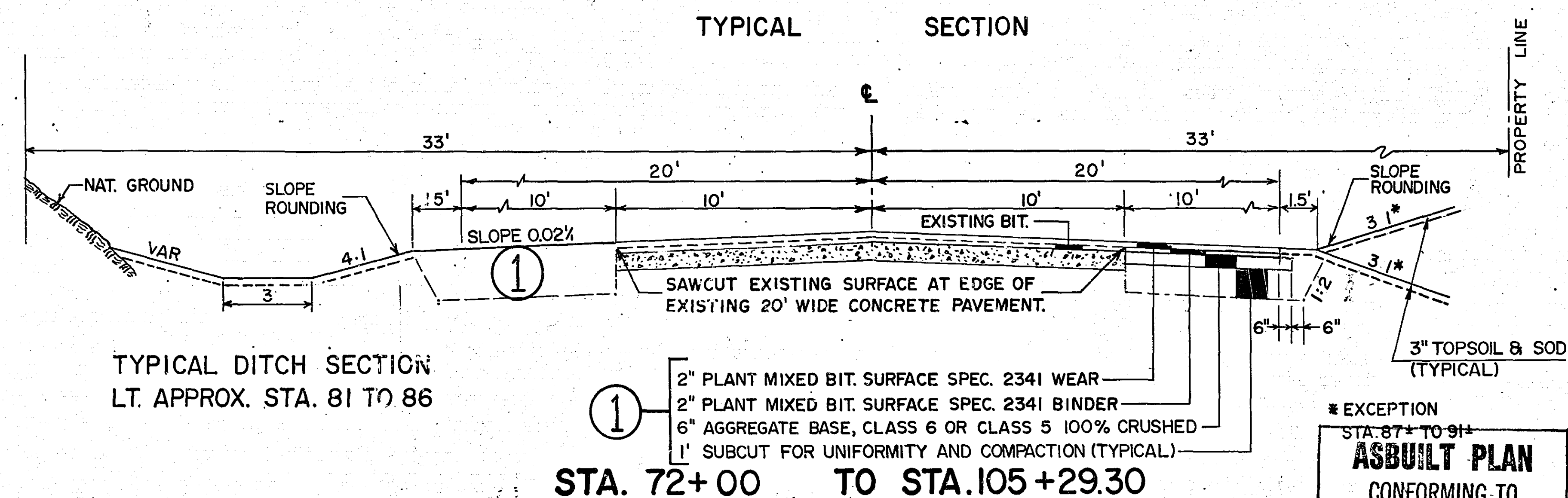


(A) SURFACE DRAIN CASTING NO. 700-7
GRATE NO. 721

(B) MANHOLE CASTING NO. 700-7
COVER NO. 712



STANDARD DETAIL PLATES	
000 A	SPECIFICATION REFERENCE TO STANDARD PLATES
7065 C	BITUMINOUS CURB
8000 H	STANDARD BARRICADES
3000 H	REINFORCED CONCRETE PIPE
3006 C	GASKET JOINT FOR R.C. PIPE
3100 F	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
3133 A	RIPRAP AT R.C.P. OUTLETS
4000 H	MANHOLE OR CATCH BASIN
4005 K	MANHOLE OR CATCH BASIN
4101 B	RING CASTING FOR MANHOLE OR CATCH BASIN
4140 D	SPECIAL GRATE CASTING FOR CATCH BASINS
4110 D	COVER CASTING FOR MANHOLE
8307 L	STRUCTURAL PLATE BEAM GUARDRAIL
8319 D	TWISTED END TREATMENT

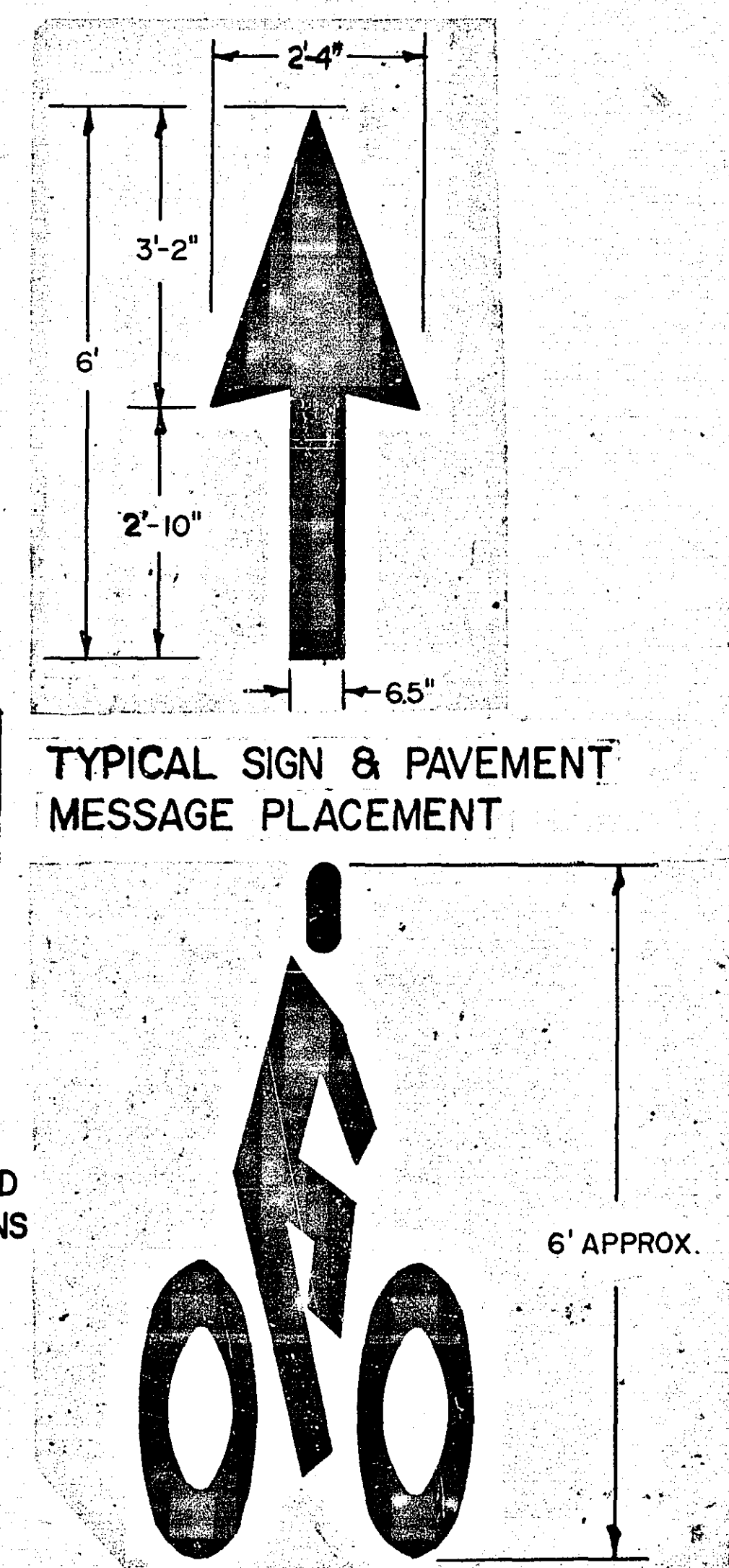


REVISED	DATE	DESIGNED BY	DRAWN BY
BT	4-10-81		
BT	4-14-81		
BT	5-6-81		
OCY	5-12-81	Non-Part. - C.P.R.B.	5-5-81 B.J.
R50	5-13-81		

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.

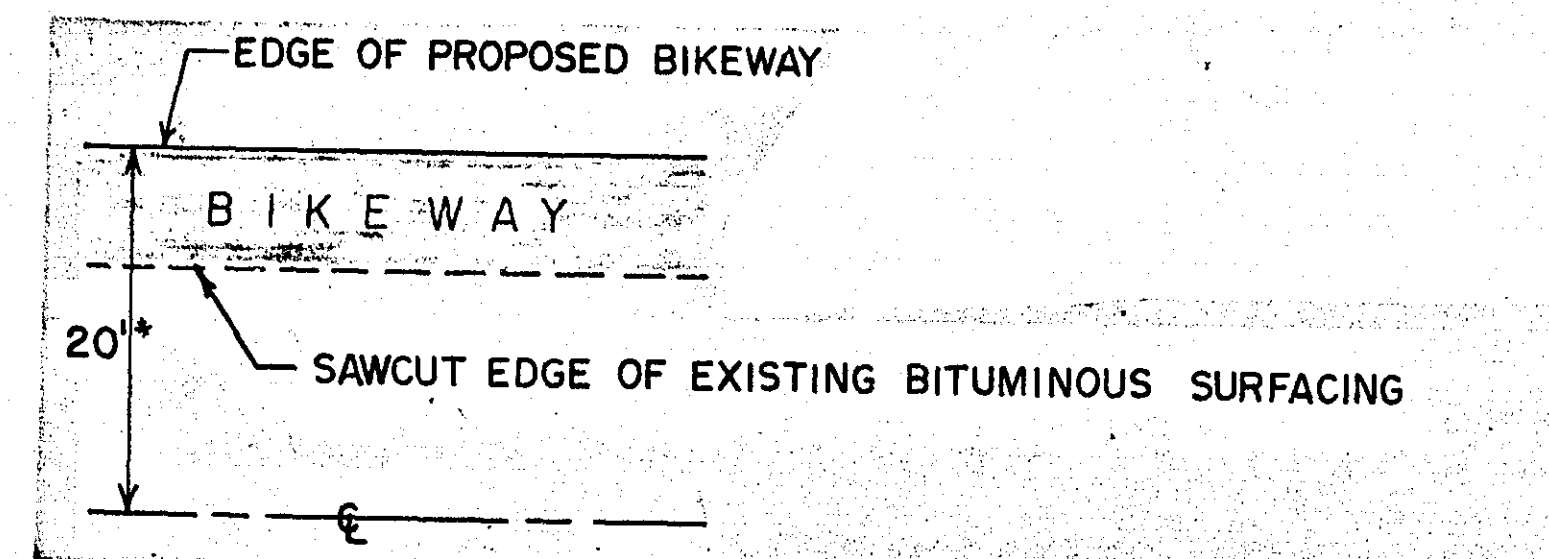
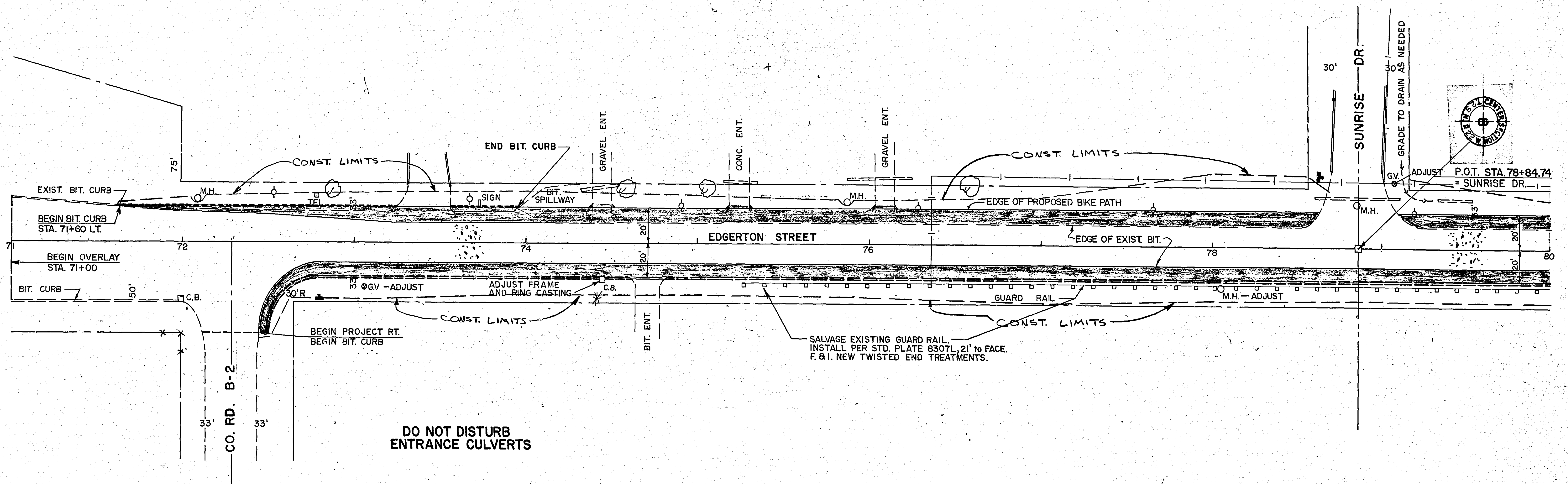
Harry Field
Date: 2-11-83 Reg. No. 13501

SECTION WITH BIT. CURB

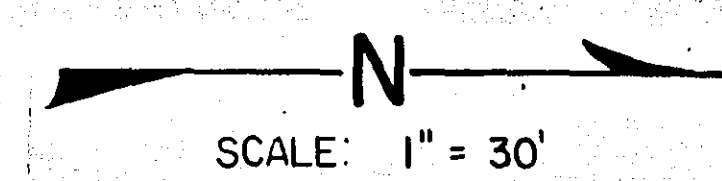


S.A.P. NO. 62-658-02

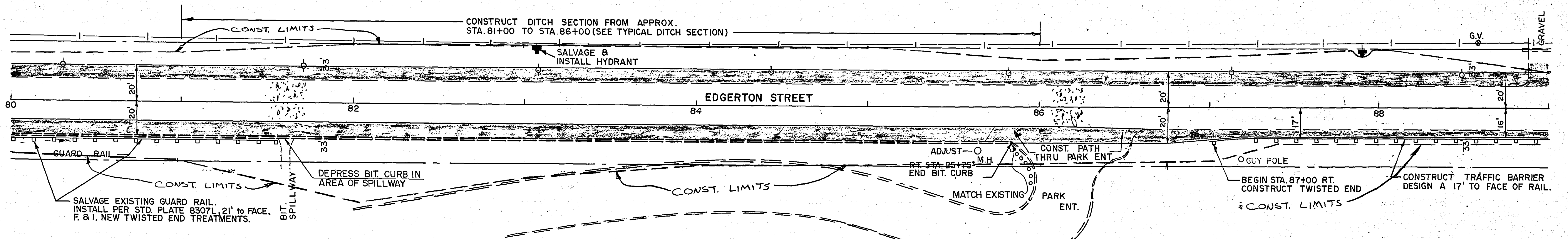
Sheet No. 2 of 10 Sheets



* SEE PLAN SHEETS FOR EXCEPTIONS



NOTE: CONTRACTOR WILL SALVAGE
MAIL BOXES - INCIDENTAL

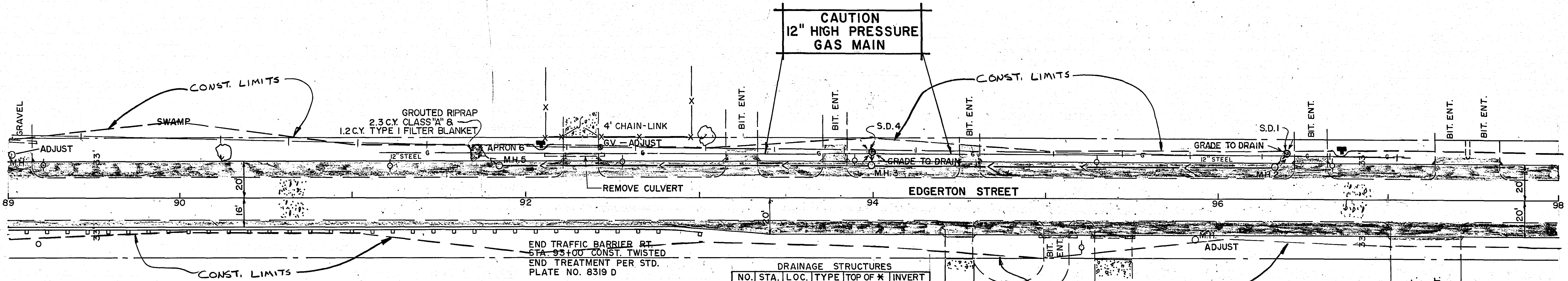
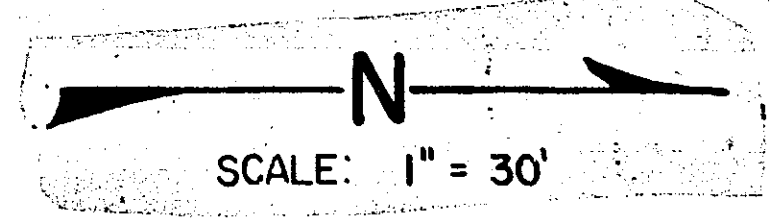


ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: M.L.
DATE: 2/22/83

REVISED	DATE	DESIGNED BY
4-10-81	M	
4-14-81		DRAWN BY
5-1-81		CHECKED BY
5-13-81		

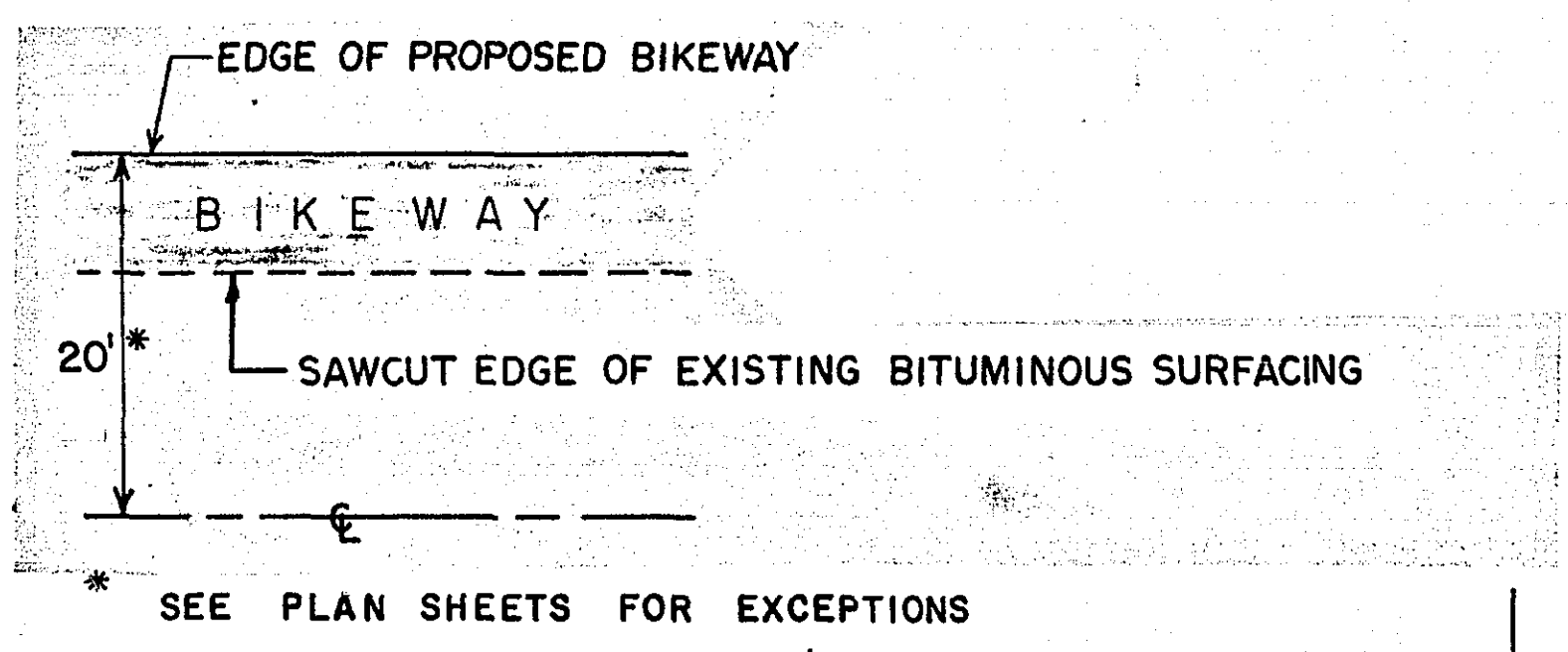
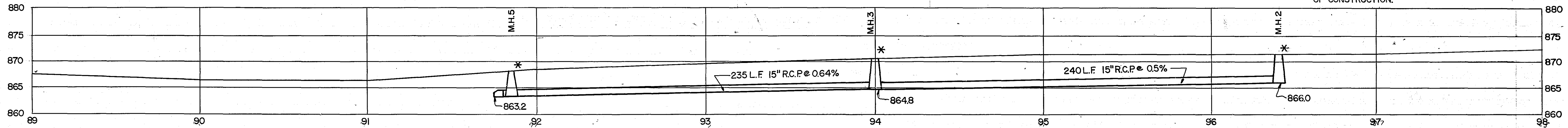
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.
Date: 2-11-81 Reg. No. 13501



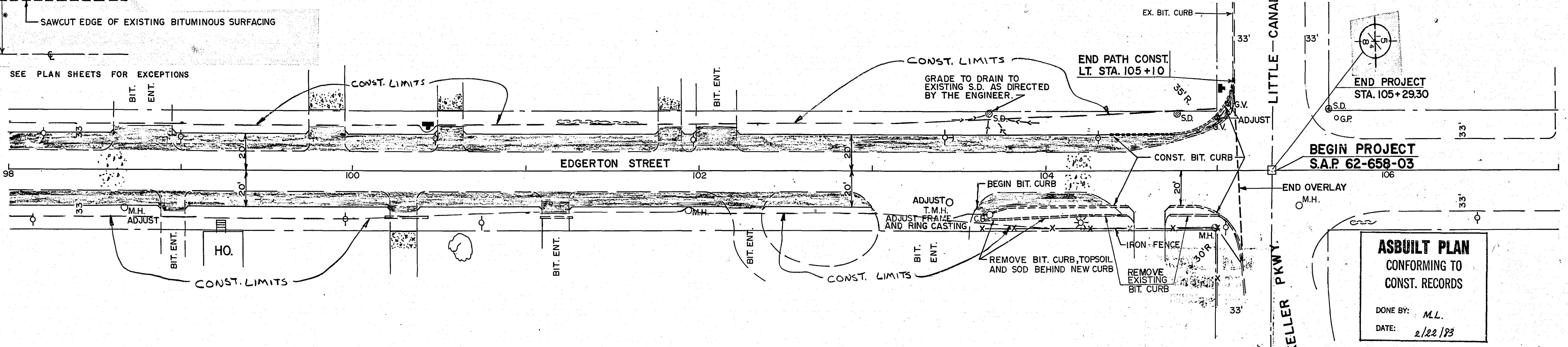
DRAINAGE STRUCTURES					
NO.	STA.	LOC.	TYPE	TOP OF * CASTING	INVERT
1	96+40	25' LT.	S.D.		866.3
2	96+30	18' LT.	M.H.		866.0
3	94+00	18' LT.	M.H.		864.8
4	94+00	25' LT.	S.D.		865.1
5	91+85	18' LT.	M.H.		863.27
6	91+75	25' LT.	APRON		863.2

NOTE:
ALL STRUCTURES
ARE TO BE TYPE
A OR F

* TOP OF CASTING ELEVATIONS TO
BE DETERMINED IN FIELD AT TIME
OF CONSTRUCTION.



NOTE: CONTRACTOR WILL SALVAGE
MAIL BOXES - INCIDENTAL



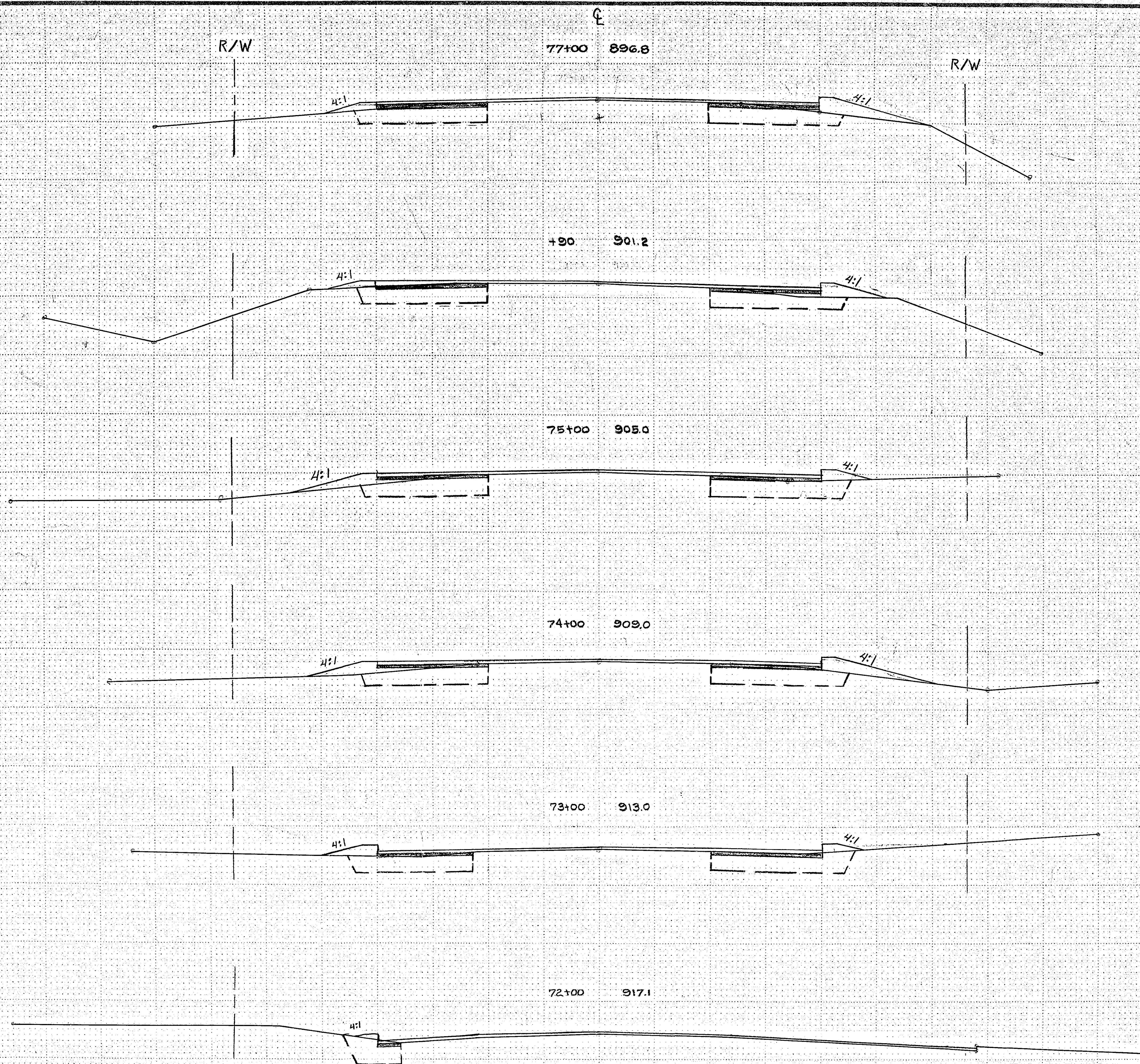
ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: M.L.
DATE: 2/22/83

REVISED	DATE	DESIGNED BY
M	4-10-81	
B.T. (H.S.)	4-14-81	
B.T. (H.S. to 20')	5-4-81	
R.S.O.	5-13-81	
		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.

Larry Feldt
Date: 2-11-83 Reg. No. 13501

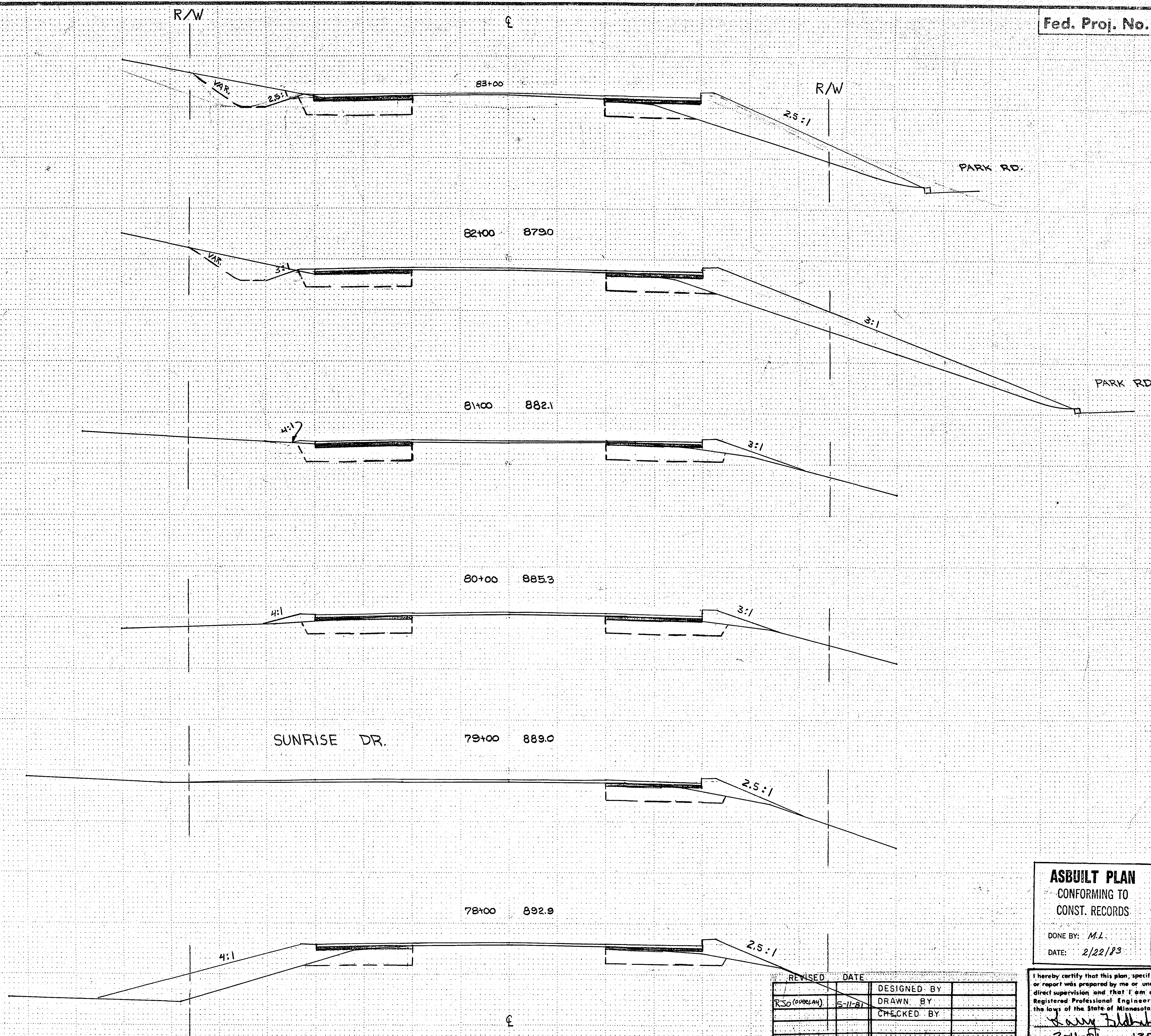


**ASBUILT PLAN
CONFORMING TO
CONST. RECORDS**

DONE BY: M.L.
DATE: 2/22/83

REVISED	DATE	DESIGNED BY
RSO (W&L)	5-11-81	
		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.
Harry Feldman
Date: 2-11-81 Reg. No. 13501

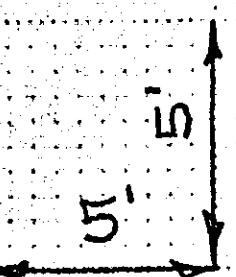


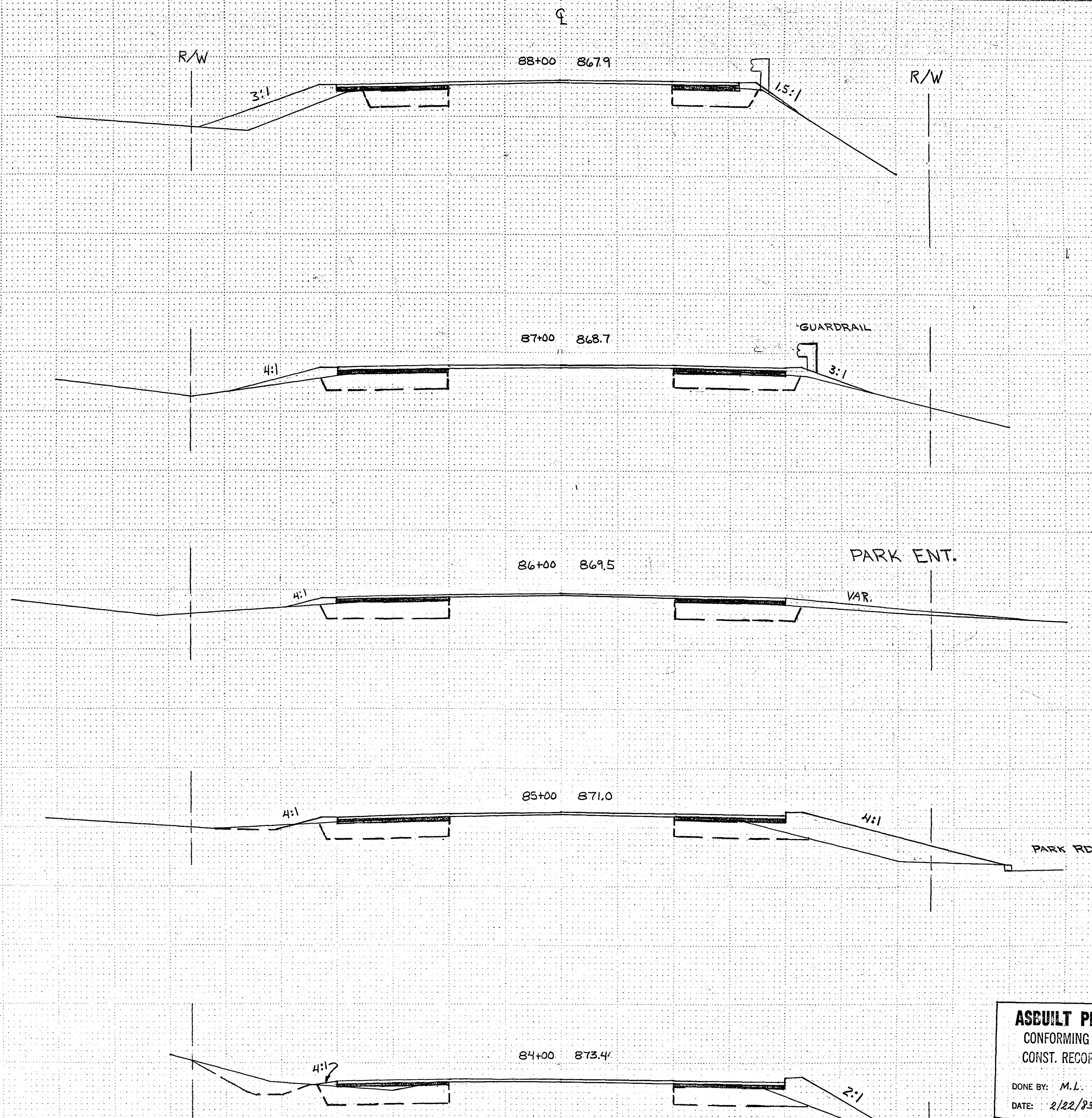
ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: M.L.
DATE: 2/22/83

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.
Harry F. Felt
Date 2-11-81 Reg. No. 13501

REVISED	DATE	DESIGNED BY
RSO (OVERLAY)	5-11-81	DRAWN BY
		CHECKED BY





**ASBUILT PLAN
CONFORMING TO
CONST. RECORDS**

DONE BY: M.L.
DATE: 2/22/83

REVISED	DATE	DESIGNED BY
		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.
Kenny F. J. J.
Date 2-11-81 Reg. No. 135011

R/W

Q

R/W

Fed. Proj. No.

93+00 869.58

TAPER BIKEPATH TO 20'
BETWEEN 92+00 & 93+00

92+00 868.48

91+00 866.28

GUARDRAIL

90+00 866.28

SWAMP

W.S.

89+00 867.43

DRIVEWAY VAR.

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: M.I.

DATE: 2/22/83

REVISED	DATE	DESIGNED BY
STA 92+00	5-4-81	
RJO (OVERLAY)	5-11-81	DRAWN BY
		CHECKED BY

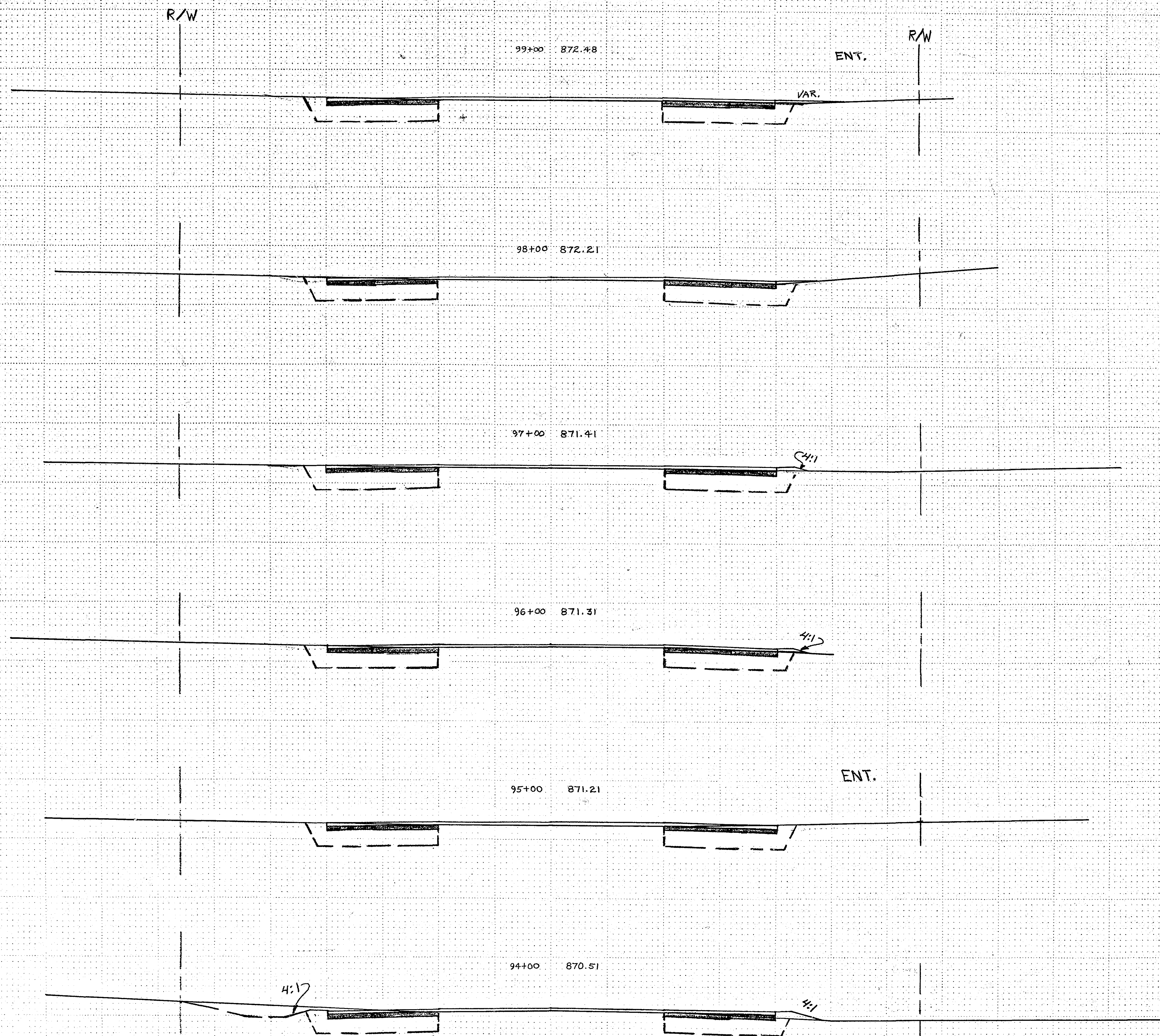
I hereby certify that this plan, specification,
or report was prepared by me or under my
direct supervision and that I am a duly
Registered Professional Engineer under
the laws of the State of Minnesota.

Larry Feldman
Date 2-11-81 Reg. No. 13501

1" = 5'

S.A.P. NO. 62-658-02

Sheet No. 8 of 10 Sheets



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

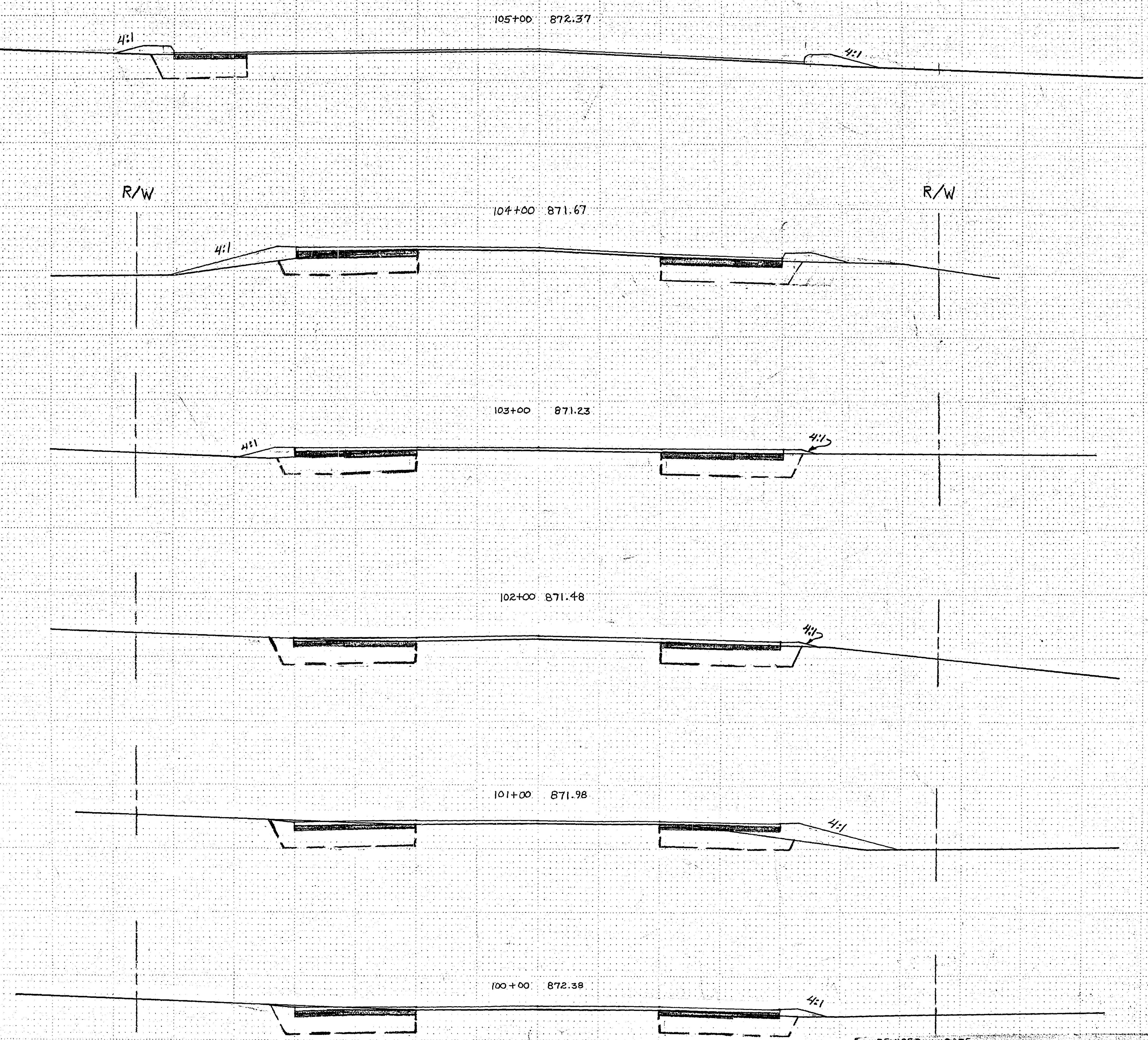
DONE BY: M.L.
DATE: 2/22/83

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.

Harry J. [Signature]
Date: 2-11-83 Reg. No. 13501

REVISED	DATE	DESIGNED BY
R30 (OVERLAY)	5-11-81	DRAWN BY
		CHECKED BY

BKMW-85-62-05 EDITION



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: M.L.
DATE: 2/22/83

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.
Harry F. Johnson
Date: 2-11-83 Reg. No. 13501

REVISED	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
4-10-81				
B.T. (STA. 105)	5-4-81			
R.S.O. (OVERLAY)	5-11-81			

City Engineer Form 217