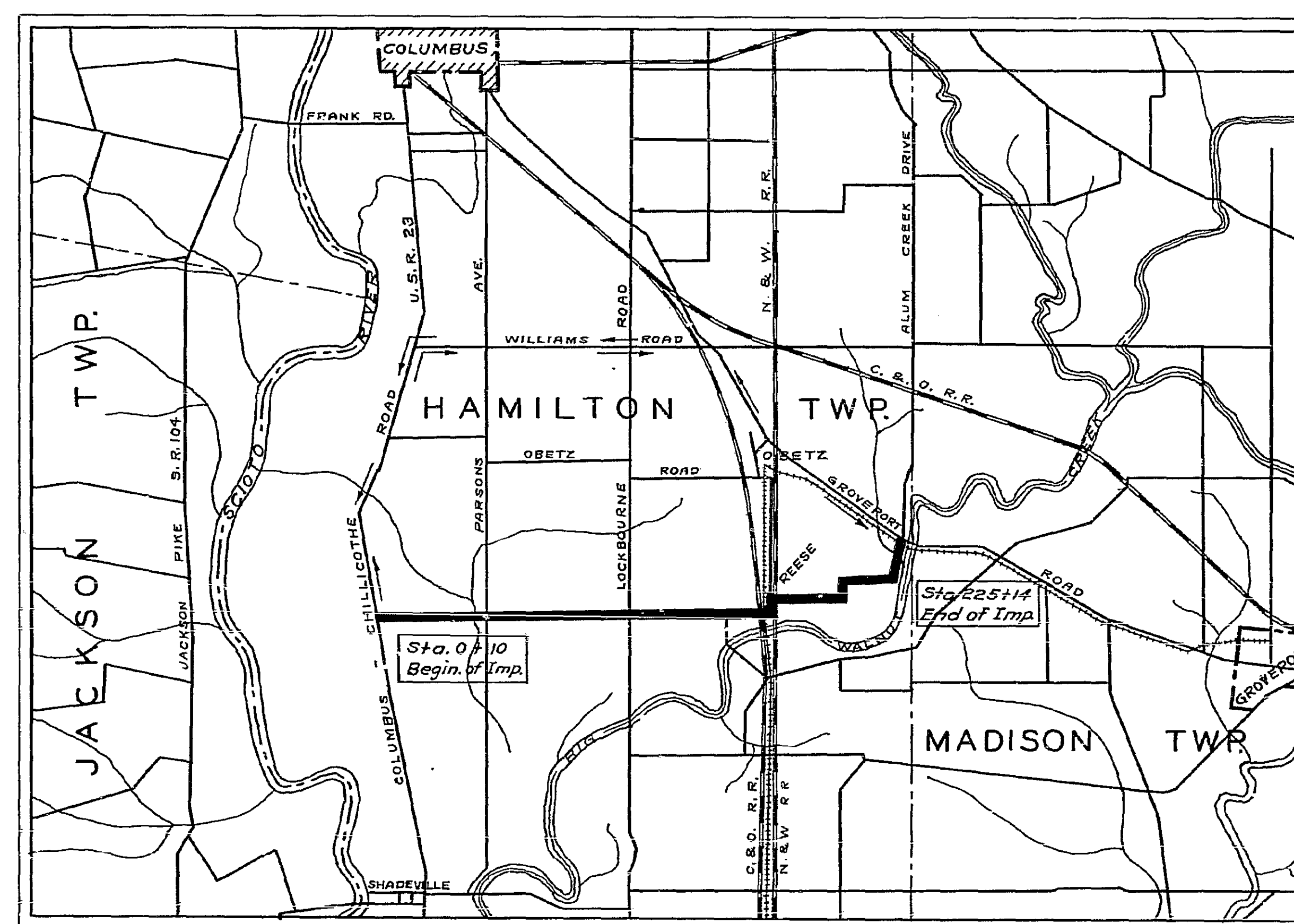


14-1

FRANKLIN COUNTY OHIO
OFFICE OF COUNTY SURVEYOR
DEPARTMENT OF HIGHWAY CONSTRUCTION
RATHMELL ROAD IMPROVEMENT
HAMILTON TOWNSHIP
MAY 1935

CONVENTIONAL SIGNS

County Line	----
Township Line	----
Section Line	----
Center Line	----
City or Village Line	----
Telephone Poles	•••••
Steam Railroad	====
Electric Line	+++++
Right of Way Line	----
Property Line	----
Property Line not Fenced	----
Wire Fence	-x-x-
Hedge Fence	~~~~~
Trees	⊙⊙⊙⊙⊙



INDEX

Title Page	Page 1
Typical Section	2
Plan and Profile	3 to 17
Cross Sections	18 to 29
Summary	30

The Standard Specifications of Franklin County in force on date of Contract will govern this Contract.

I hereby approve these Plans and declare the making of this improvement will require the closing to traffic of this Highway and that Detours will be provided as shown on the Plan and Estimate.

We, the Commissioners of Franklin County, hereby approve these plans and certify that the right of way (width on plan) is available for the construction maintenance and repair of the above Highway.

Harry T. Vign

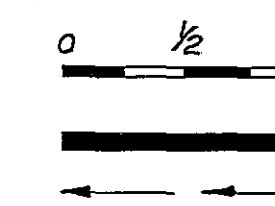
Edward T. Paul

County Commissioners

Date JUNE 19 1935

LOCATION MAP

Scale of Miles
Portion to be Improved
Detours Shown Thus



Dead Haul 12.65 Miles
Average Live Haul 2.13 "
Average Haul 14.78 "

SCALES

Plan 1" = 50'
Profile (Vert.) 1" = 5'
Profile (Hor.) 1" = 50'
Cross Sections 1" = 5'

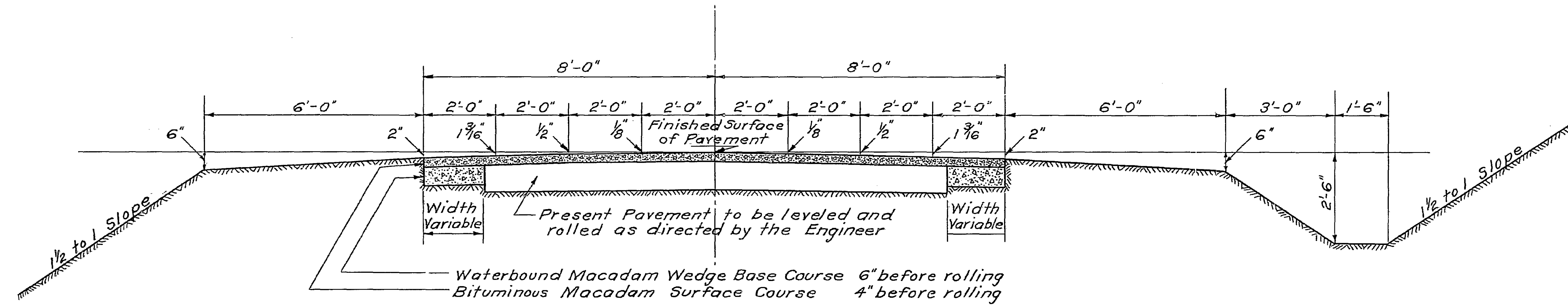
Recommended for Approval g. b. Roque
Date MAY 18 1935 Deputy County Surveyor

Approved Curtis C. Atkinson
Date MAY 18 1935 County Surveyor

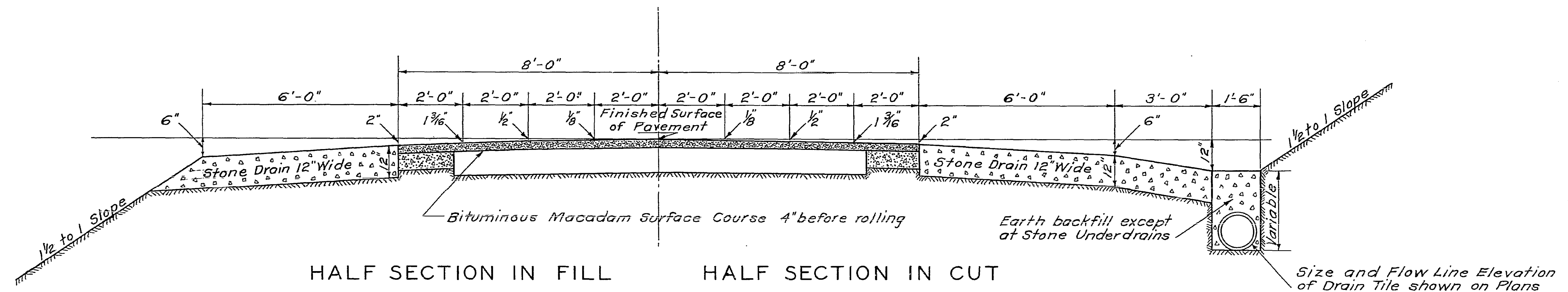
Approved as Revised - June 19 1935
Curtis C. Atkinson
County Surveyor

TYPICAL SECTIONS

ALL DIMENSIONS SHOWN ARE FOR FINISHED SECTION AFTER ROLLING METAL



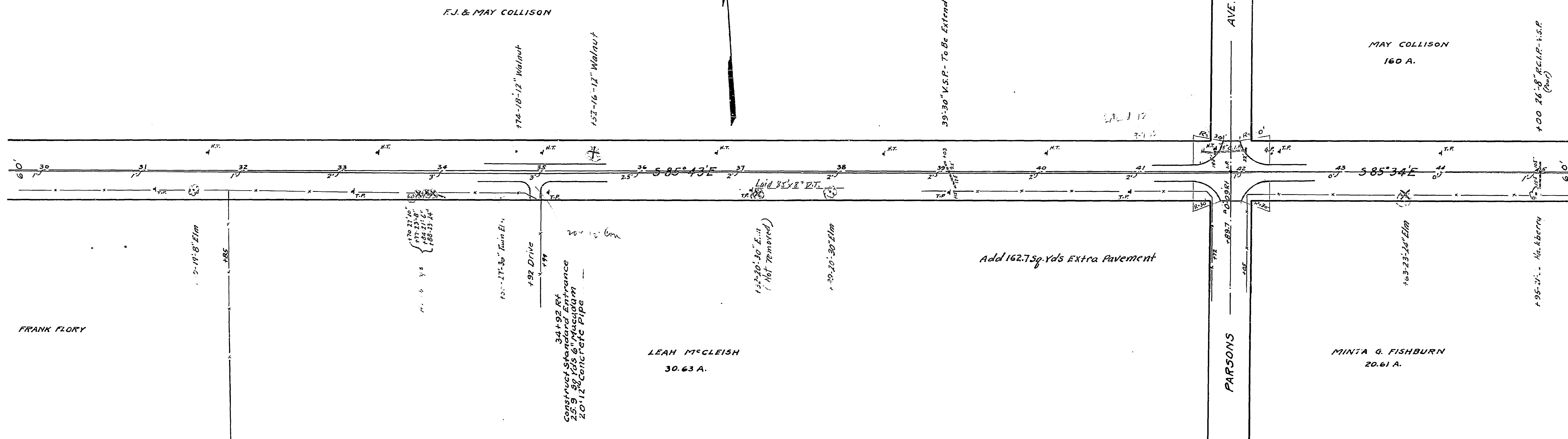
HALF SECTION IN FILL HALF SECTION IN CUT



HALF SECTION IN FILL HALF SECTION IN CUT

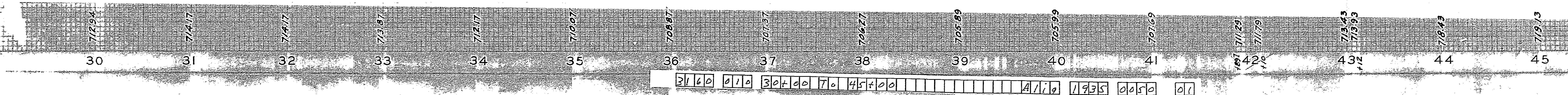
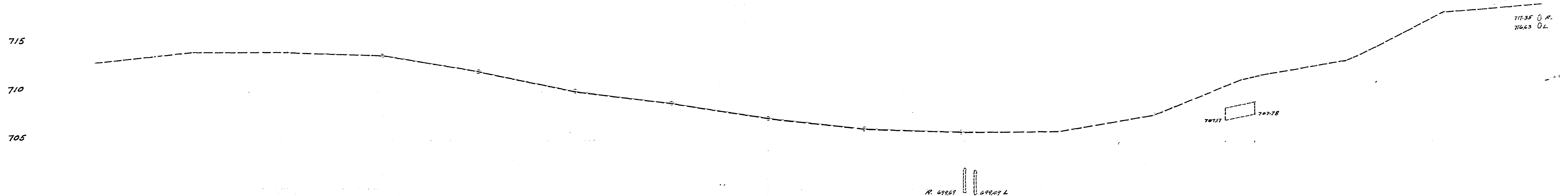
Stone Underdrains as shown above will be built one for each 100 lineal feet of roadway alternating from side to side
Change in location, omission or additional construction of Stone underdrains is subject to the judgement of the Engineer in charge.

Note: The Contractor shall do all the rough excavation work including ditches, lay and backfill drain tile, lay driveway pipe, grade out driveways, trench out stone underdrains and do all other work necessary in the opinion of the Engineer for the complete drainage of the subgrade before the placing of any stone.
Stone underdrains shall be trenched out before, and filled after the completion of the Pavement proper.

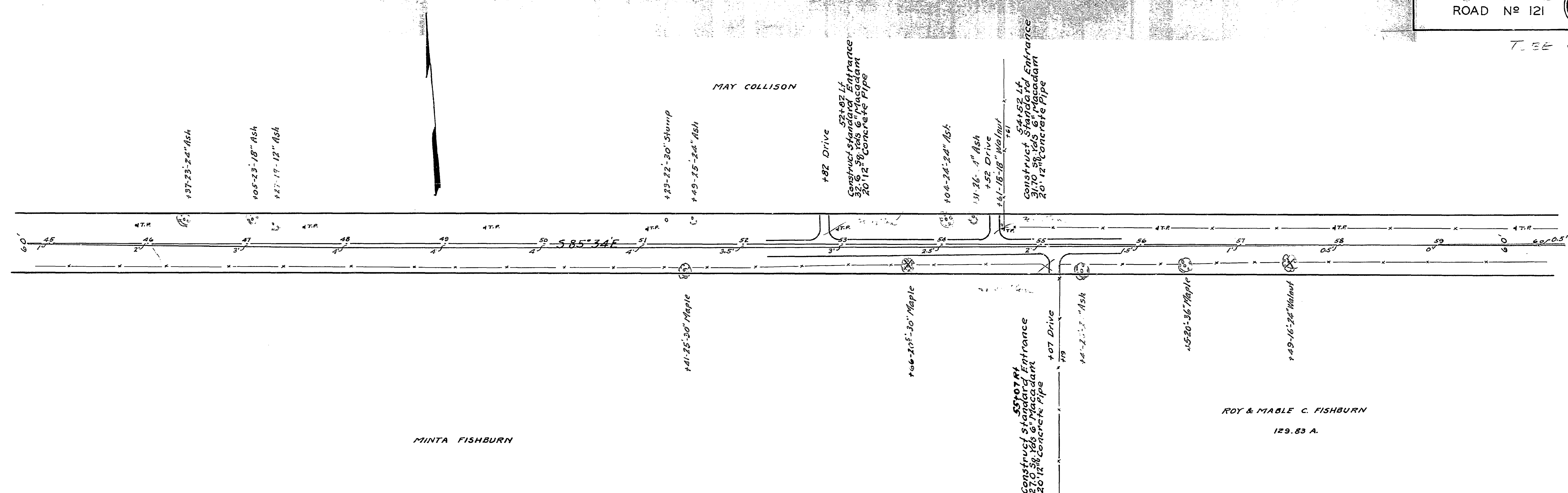


B.M. spike in 30' Elm Tree
25' at Sta. 34+64
Elev. 711.32

31+00 to 45+00 { Excavation = 621.2 cu. yds
Embankment = 495.9 cu. yds + 15 % = 570.2 "
Waste = 51.0 " "

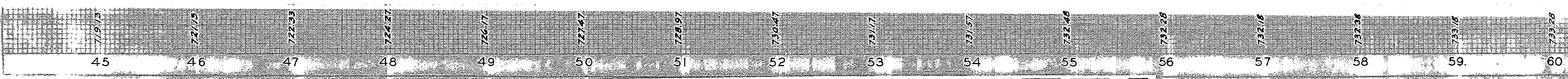
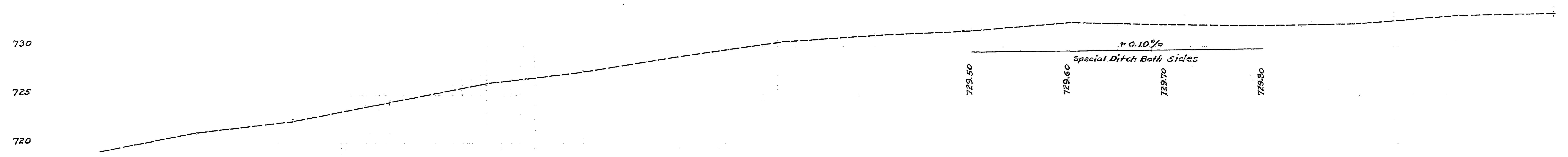


TEE 651

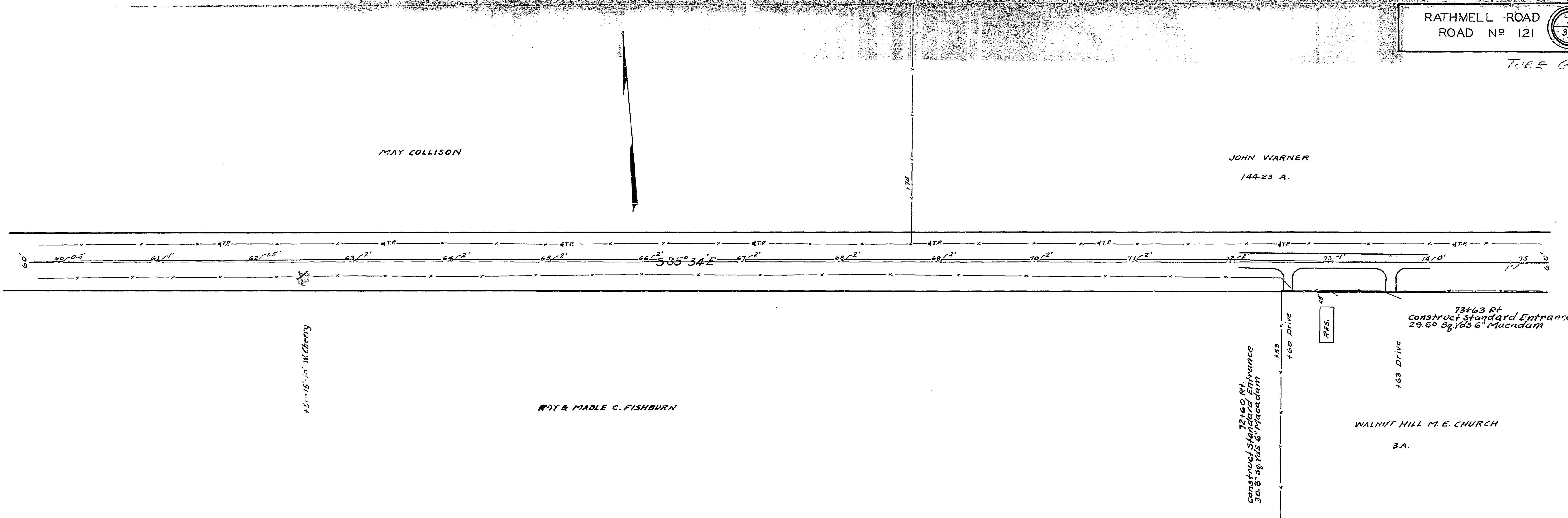


B.M. Spike in 30" Oak
70' Lt. Sta. 46+00
Elev. 724.03

B.M. Spike in 24" Maple
25' Rt. Sta. 55+40
Elev. 732.91

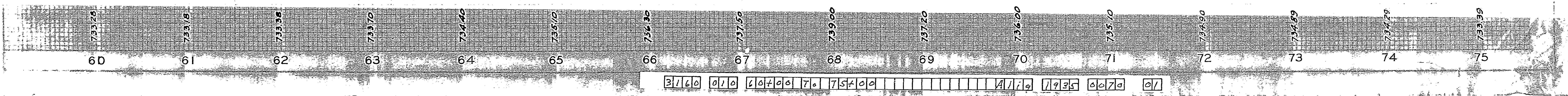
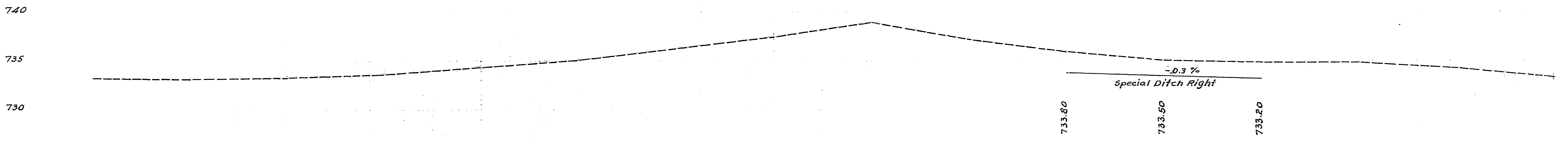


3160 010 45+00 70 60+00 147.19 1935 0060 07

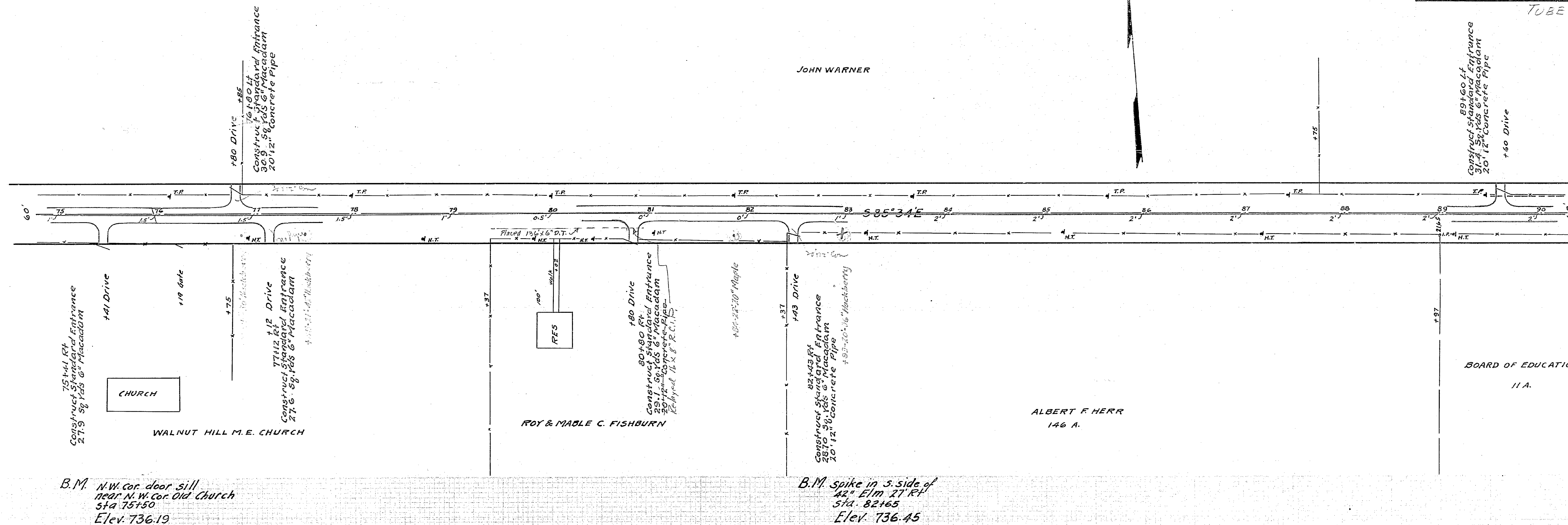


45+00 to 82+00 {

Excavation	=	1208.7 cu.Yds
Embankment	=	1042.5 cu.Yds + 15% = 1198.8 " "
Waste	=	9.9 " "



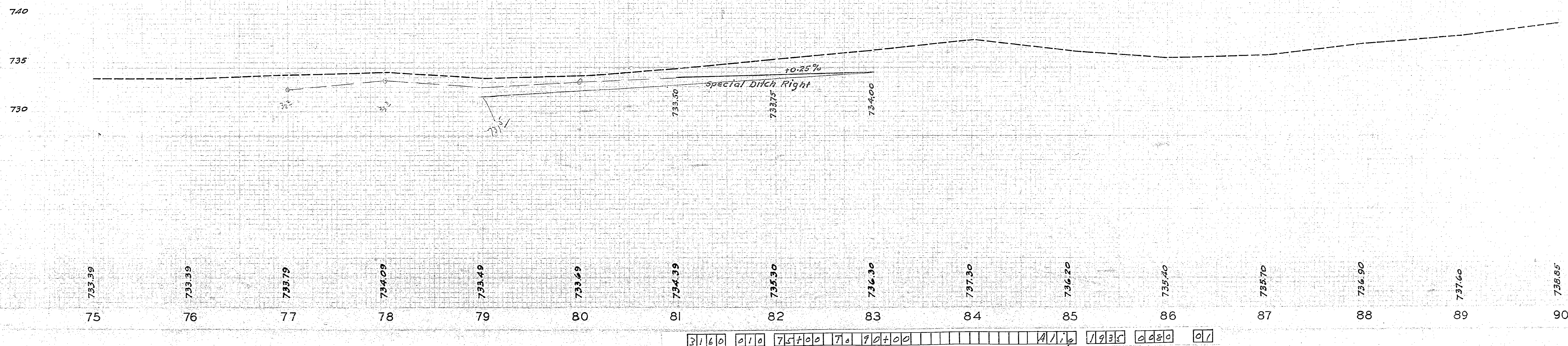
TUBE 651

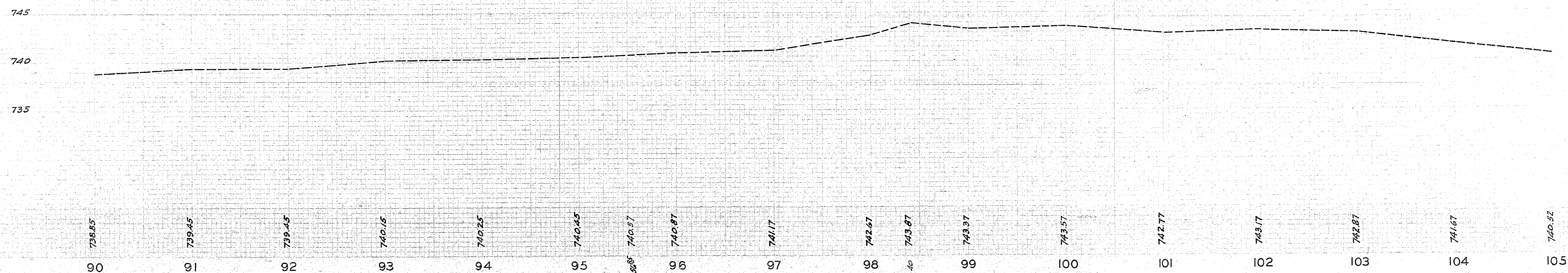
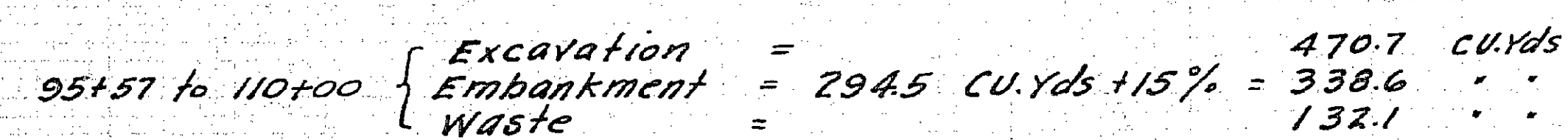


B.M. N.W. cor. door sill
near N. W. cor. Old Church
Sta 75+50
Elev. 736.19

B.M. spike in S. side of
42" Elm 27' RT
Sta. 82+65
Elev. 736.45

82+00 to 95+57 { Excavation = 488.2 cu.yds
Embankment = 323.1 cu.yds + 15% = 371.5 " "
Waste = 116.7 " "





3160	010	90+00	T.	105+00						A11g	1935	0090	01	578.5	E Hayes W, + E Hayes E
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MINTA FISHBURN
12.08 A.

106+50.4
Construct Standard Entrance
32.5' 8" Yds 6" Macadam
20' 12" Concrete Pipe

113+25.14
Construct Standard Entrance
32.5' 8" Yds 6" Macadam
20' 12" Concrete Pipe

ALBERT F. HERR
12.08 A.

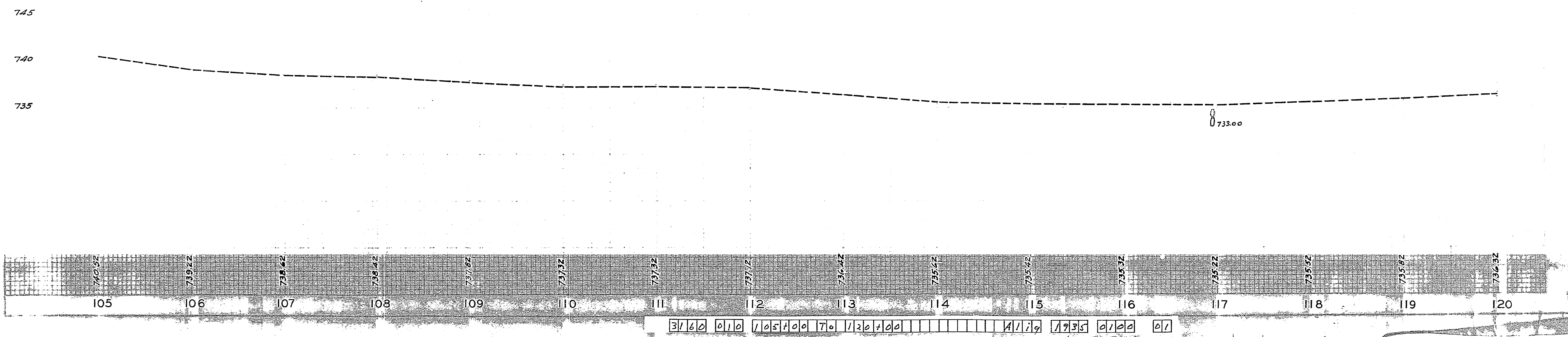
195+24.12' C.I.P. Relay (Separate Contract)

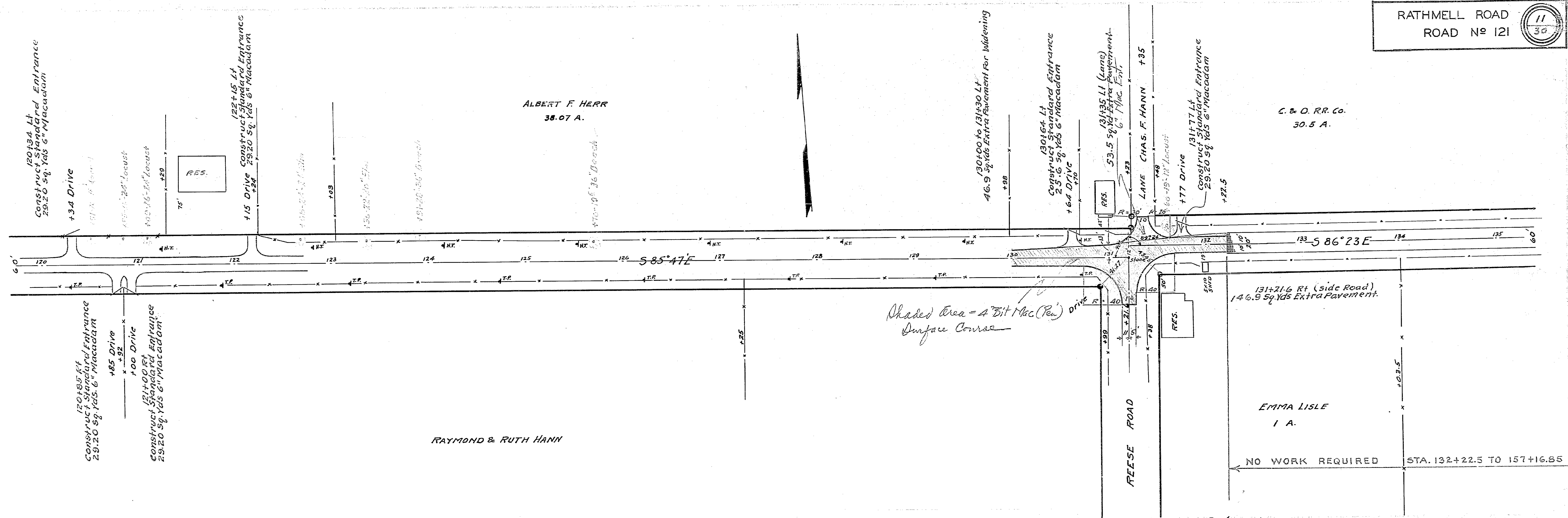
100+28.18 Locust

JOHN F. NELP

RAYMOND & RUTH HANN
130.35 A.

B.M. spike in pole 22' Rt
Sta. 112+80
Elev. 737.16

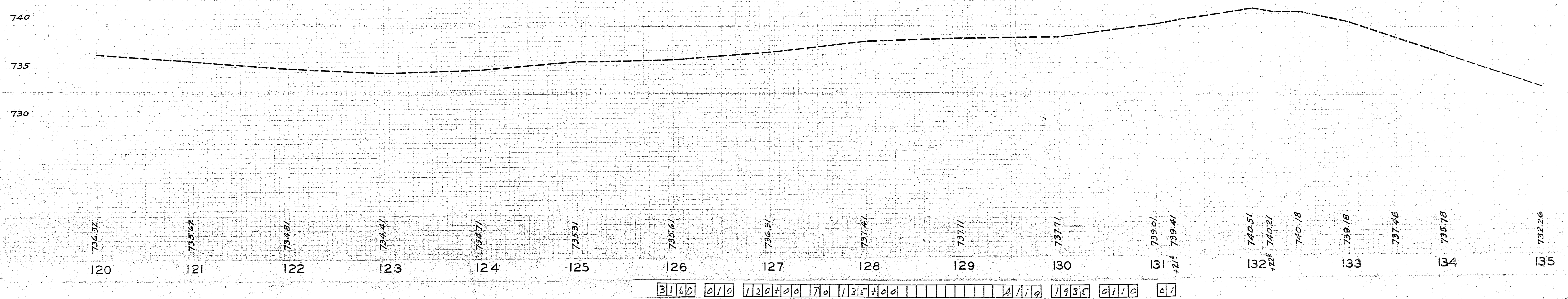




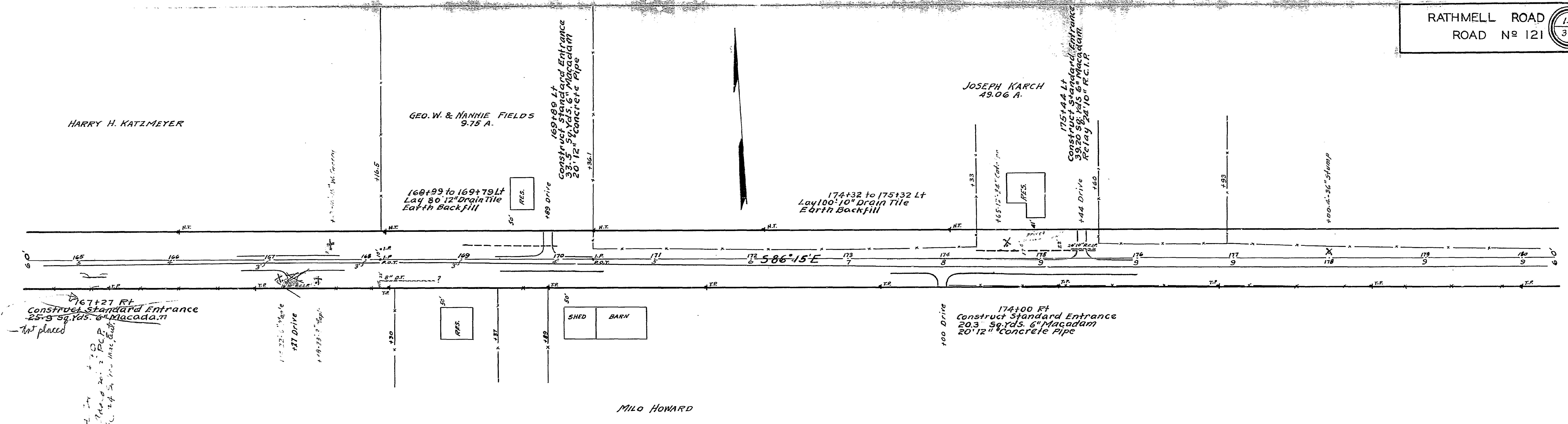
B.M. spike in Locust
27 Lt Sta. 121+10
Elev. 736.17

B.M. West end of S. Curb
Sta. 132+22.5
Elev. 740.36

110+00 to 132+22.5 {
Excavation = 607.4 cu. Yds
Embankment = 469.1 cu. Yds + 15% = 539.4 "
Waste = 68.0 "



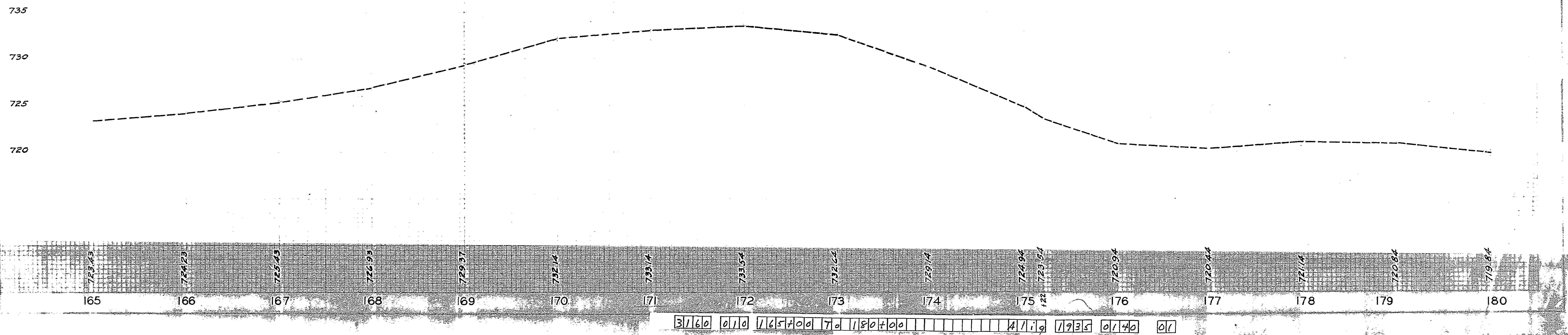
3160 010 120+00 70 135+00 1119 1935 0110 01

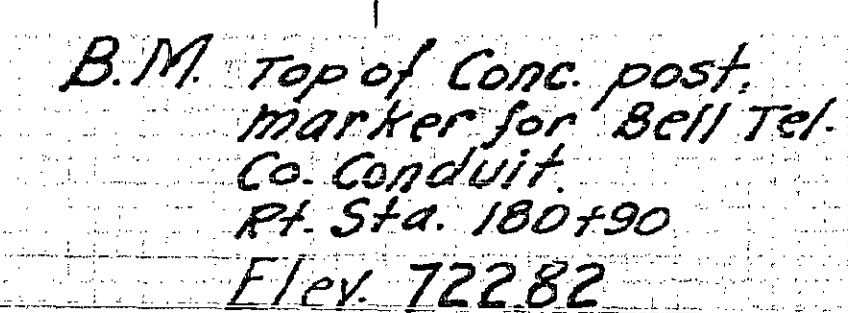


B.M. N.W. Cor. Conc. Steps
Rt. of Sta. 169+00
Elev. 732.92

151+165 to 175+00 { Excavation = 731.9 cu.Yds
Embankment = 454.9 cu.Yds + 15% = 523.1
Waste = 208.8

175+00 to 185+00 { Excavation = 427.7 cu.Yds
Embankment = 242.4 cu.Yds + 15% = 278.7
Waste = 149.0

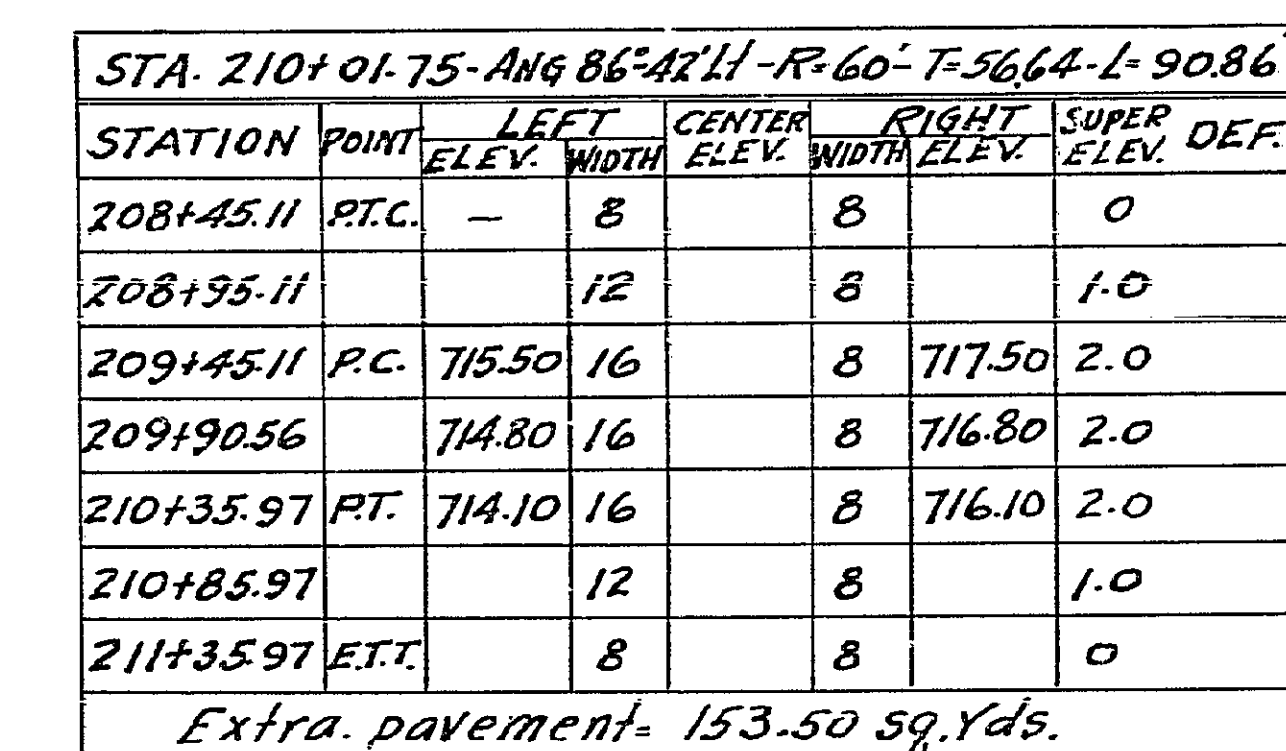




185+00 to 195+00 { Excavation = 1188.4 CU.Yds
Embankment = 203.7 CU.Yds + 15% = 234.1 " "
Waste = 954.3 " "



3160	010	180+00	T0	195+00								A11g	1935	0150	01
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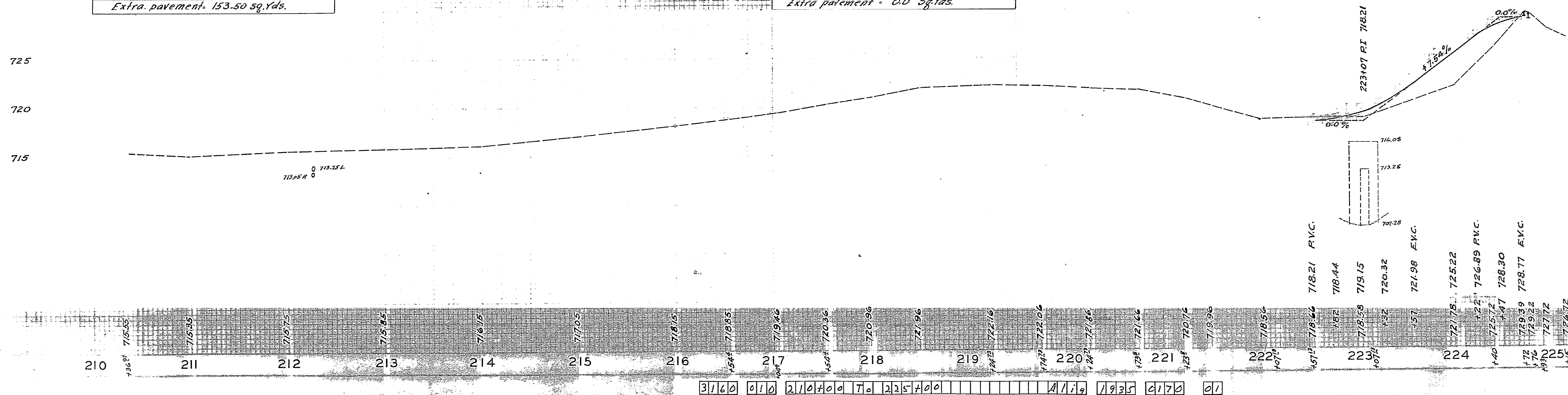


STA. 218+39.9 ANG. 5°25'11" D=2°-T=135.51-1270.33							
STATION	POINT	LEFT ELEV	WIDTH	CENTER ELEV	RIGHT WIDTH	SUPER ELEV	DEF.
217+04.4	P.C.	719.30	8	719.47	8	719.45	0.15
217+54.4	ETC.	720.05	8	720.22	8	720.34	0.29 0°30'
218+00		720.80	8	721.97	8	721.09	0.29 0°5'
218+50		721.75	8	721.92	8	722.04	0.29 1°27'
219+00		-	8	-	8	-	0.29 1°51'
219+24.73	ETC.	721.90	8	722.07	8	722.19	0.29 2°14'
219+74.73	P.T.	721.80	8	721.97	8	721.95	0.15 2°41'

Extra pavement = 0.0 Sq.Yds.

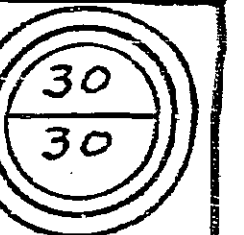
STA. 221+65.8 - ANG. 11° 0' R/L - D= 6° - T= 92.00' - L= 183.33							
STATION	POINT	LEFT CENTER		RIGHT CENTER		SUPER ELEV	DEF
		ELEV.	WIDTH	ELEV.	WIDTH		
220+73.8	P.C.	721.75	8	721.42	9.3	721.25	0.5
221+23.8	E.T.C.	721.00	8	720.17	10.4	720.00	1.0
221+50		720.25	8	719.42	10.4	719.25	1.0
222+07.13	E.T.C.	718.80	8	717.97	10.4	717.80	1.0
222+57.13	P.T.	718.91	8	718.58	9.3	718.41	0.5
Extra pavement = 76.0 Sg.Yds							

B.M. S.W. cor. W. headwall
Culv. Sta. 223+07
Elev. 716.03



SUMMARY OF QUANTITIES

RATHMELL ROAD
ROAD NO 121



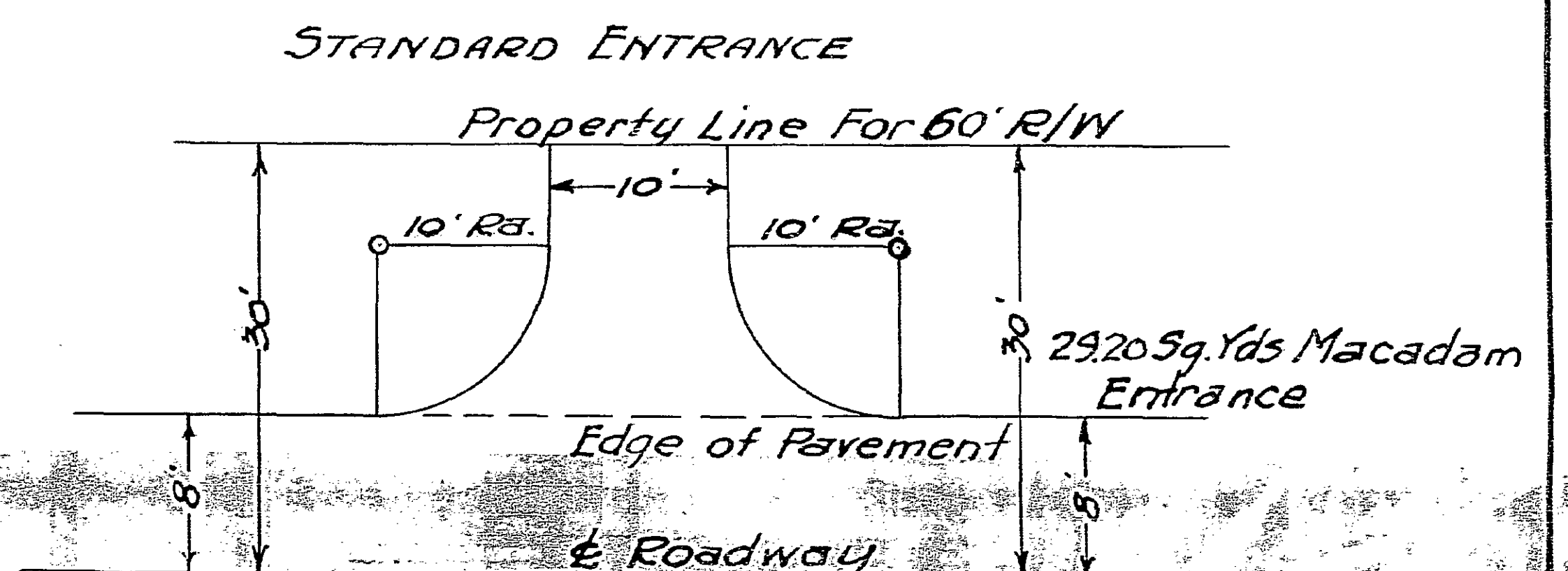
STATION	Location	6" Macadam Entrances		Lin. Feet	Lin. Feet	Lin. Feet
		Sq. Yds	Lin. Ft. 12"	12" D.T.	10" D.T.	C.I.P.
10+51	R	29.2				Relayed
10+84	L	29.2				
11+38	R	29.2				
24+81	L	29.2				
24+43	R	29.2				
27+38	R	29.2				
34+92	R	25.9	20			
52+82	L	32.6	20			
54+52	L	31.7	20			
55+07	R	27.0	20			
72+60	R	30.8				
73+63	R	29.6				
75+41	R	27.9				
76+80	L	30.9	20			
77+12	R	27.6				
80+80	R	29.1	20			16
82+43	R	28.7	20			
89+60	L	31.4	20			
89+70 to 91+24	L			154		
99+26	R	25.9				
100+76	R	25.9				
100+84	L	32.5				
106+58	L	32.5	20			
108+25	R	25.9	20			
113+25	L	32.4	20			
120+34	L	29.2				
120+85	R	29.2				
121+00	R	29.2				
122+15	L	29.2				
130+64	L	25.6				
131+77	L	29.2				
144+00	L	29.2	20			
144+72	R	29.2				
145+50	L	23.7	20			
149+55	L	23.7	20			
160+14	L	33.8				
161+66	L	34.8	32			
167+27	R	25.9				
168+99 to 169+79	L			80		
169+89	L	32.5	20			
174+00	R	20.3	20			
174+32 to 175+32	L				100	
175+44	L	39.2				24
181+00	R	29.2				
187+55	L	29.2				
203+38	R	31.4	20			
205+26	R	30.0				
218+38	L	29.2				
Totals		1210.6	312	234	100	24

Actual	Used in Estimate	ESTIMATE OF QUANTITIES	Item	Sec.
9,566	9,566	Cu. Yds. Roadway Excavation	R-1	
32,930	32,930	Sq. Yds. Present Pavement to be Scarified, Leveled and Rolled		
886	1,200	Tons Waterbound Macadam Wedge Base Course	B-1	
36,309	37,000	Sq. Yds. 4" Bituminous Macadam Surface Course, using a minimum of 0.132 tons of course aggregate and 3 gallons of bituminous material, Sec. 5-1, A-1, or Sec. 5-11, T-1 (Bidder to Specify Kind) per Sq. Yd.		
121	121	Sq. Yds. 6" Macadam Entrances	T-4	
19,920	19,920	Lin. Ft. Dress Grading	T-16	
1,350	1,350	Lin. Ft. Stone Drain Underdrain	R-4	
100	100	Lin. Ft. 10" Extra Quality Drain Tile Underdrain (Earth Backfill)	D-1	6.5
234	234	Lin. Ft. 12" Extra Quality Drain Tile Underdrain (Earth Backfill)	D-2	6.5
312	312	Lin. Ft. 12" Concrete Pipe Underdrain (Earth Backfill)	D-2	6.4
24	24	Lin. Ft. 10" Ribbed Cast Iron Pipe Taken Up and Relayed	D-2	

LAND TO BE APPROPRIATED		
OWNERS NAME	ACRES OWNED	ACRES REQUIRED
Irene D. Travis	322.517	0.0024 Ac.
Scot Valley Fraction Co.	58.235	0.1175 Ac.
Fred Butts	101.54	632.75 Sq. Ft.
Emma Walker	2.15	635.00
Herbert S. Albright	2.42	635.00
Clara R. Morris	2.43	635.00
Lillie Travis	1.46	0.0133 Ac.
E. F. Edmonds	0.346	0.0003 Ac.

CALCULATION OF PAVEMENT	
Beginning of Improvement = Sta. 0+10	
End " " = " 22+14	
22,504 Lin. Ft.	
22,504 Lin. Ft. = 46.0 Lin. Ft. for Lockbourne Rd.	
- 2,499.35 " " " No Work Required (132+22.5 to 137+16.85)	
- 21.46 " " " Curve (144+72)	
- 636.76 " " " Present Pavement (120+80.1 to 127+16.85)	
- 21.96 " " " Curve (181+10)	
- 21.63 " " " " (187+42)	
2,583.34 " " "	
22,504.00 Lin. Ft. - 2,583.34 Lin. Ft. = 19,920.66 Lin. Ft. X 16' = 318,720.96 Sq. Ft. ÷ 9 = 35,413.44 Sq. Yds.	
35,413.44 Sq. Yds. + 71.0 Sq. Yds. for Return Sta. 0+10	
+ 162.7 " " " Parsons Av.	
+ 46.9 " " " Lockbourne Rd	
+ 146.9 " " " Widening (130+00 to 131+30.1)	
+ 33.5 " " " Return Recs Rd	
+ 38.1 " " " Lane (131+35.1)	
+ 37.3 " " " Curve (144+72)	
+ 37.8 " " " " (181+10)	
+ 37.8 " " " " (187+42)	
+ 153.5 " " " " (210+10)	
+ 46.9 " " " " (221+66)	
35,413.44 Sq. Yds. + 895.8 Sq. Yds. = 36,309.24 Sq. Yds.	

See supplemental sheet for
Final Est. Calculation of Pavement.
Use 36,372 Sq. Yds. 4" Bit Top



3/1/60 0110 0121 0131 0141 0151 0161 0171 0181 0191 0201 0211 0221 0231 0241 0251 0261 0271 0281 0291 0301 0311 0321 0331 0341 0351 0361 0371 0381 0391 0401 0411 0421 0431 0441 0451 0461 0471 0481 0491 0501 0511 0521 0531 0541 0551 0561 0571 0581 0591 0601 0611 0621 0631 0641 0651 0661 0671 0681 0691 0701 0711 0721 0731 0741 0751 0761 0771 0781 0791 0801 0811 0821 0831 0841 0851 0861 0871 0881 0891 0901 0911 0921 0931 0941 0951 0961 0971 0981 0991 1001 1011 1021 1031 1041 1051 1061 1071 1081 1091 1101 1111 1121 1131 1141 1151 1161 1171 1181 1191 1201 1211 1221 1231 1241 1251 1261 1271 1281 1291 1301 1311 1321 1331 1341 1351 1361 1371 1381 1391 1401 1411 1421 1431 1441 1451 1461 1471 1481 1491 1501 1511 1521 1531 1541 1551 1561 1571 1581 1591 1601 1611 1621 1631 1641 1651 1661 1671 1681 1691 1701 1711 1721 1731 1741 1751 1761 1771 1781 1791 1801 1811 1821 1831 1841 1851 1861 1871 1881 1891 1901 1911 1921 1931 1941 1951 1961 1971 1981 1991 2001 2011 2021 2031 2041 2051 2061 2071 2081 2091 2101 2111 2121 2131 2141 2151 2161 2171 2181 2191 2201 2211 2221 2231 2241 2251 2261 2271 2281 2291 2301 2311 2321 2331 2341 2351 2361 2371 2381 2391 2401 2411 2421 2431 2441 2451 2461 2471 2481 2491 2501 2511 2521 2531 2541 2551 2561 2571 2581 2591 2601 2611 2621 2631 2641 2651 2661 2671 2681 2691 2701 2711 2721 2731 2741 2751 2761 2771 2781 2791 2801 2811 2821 2831 2841 2851 2861 2871 2881 2891 2901 2911 2921 2931 2941 2951 2961 2971 2981 2991 3001 3011 3021 3031 3041 3051 3061 3071 3081 3091 3101 3111 3121 3131 3141 3151 3161 3171 3181 3191 3201 3211 3221 3231 3241 3251 3261 3271 3281 3291 3301 3311 3321 3331 3341 3351 3361 3371 3381 3391 3401 3411 3421 3431 3441 3451 3461 3471 3481 3491 3501 3511 3521 3531 3541 3551 3561 3571 3581 3591 3601 3611 3621 3631 3641 3651 3661 3671 3681 3691 3701 3711 3721 3731 3741 3751 3761 3771 3781 3791 3801 3811 3821 3831 3841 3851 3861 3871 3881 3891 3901 3911 3921 3931 3941 3951 3961 3971 3981 3991 4001 4011 4021 4031 4041 4051 4061 4071 4081 4091 4101 4111 4121 4131 4141 4151 4161 4171 4181 4191 4201 4211 4221 4231 4241 4251 4261 4271 4281 4291 4301 4311 4321 4331 4341 4351 4361 4371 4381 4391 4401 4411 4421 4431 4441 4451 4461 4471 4481 4491 4501 4511 4521 4531 4541 4551 4561 4571 4581 4591 4601 4611 4621 4631 4641 4651 4661 4671 4681 4691 4701 4711 4721 4731 4741 4751 4761 4771 4781 4791 4801 4811 4821 4831 4841 4851 4861 4871 4881 4891 4901 4911 4921 4931 4941 4951 4961 4971 4981 4991 5001 5011 5021 5031 5041 5051 5061 5071 5081 5091 5101 5111 5121 5131 5141 5151 5161 5171 5181 5191 5201 5211 5221 5231 5241 5251 5261 5271 5281 5291 5301 5311 5321 5331 5341 5351 5361 5371 5381 5391 5401 5411 5421 5431 5441 5451 5461 5471 5481 5491 5501 5511 5521 5531 5541 5551 5561 5571 5581 5591 5601 5611 5621 5631 5641 5651 5661 5671 5681 5691 5701 5711 5721 5731 5741 5751 5761 5771 5781 5791 5801 5811 5821 5831 5841 5851 5861 5871 5881 5891 5901 5911 5921 5931 5941 5951 5961 5971 5981 5991 6001 6011 6021 6031 6041 6051 6061 6071 6081 6091 6101 6111 6121 6131 6141 6151 6161 6171 6181 6191 6201 6211 6221 6231 6241 6251 6261 6271 6281 6291 6301 6311 6321 6331 6341 6351 6361 6371 6381 6391 6401 6411 6421 6431 6441 6451 6461 6471 6481 6491 6501 6511 6521 6531 6541 6551 6561 6571 6581 6591 6601 6611 6621 6631 6641 6651 6661 6671 6681 6691 6701 6711 6721 6731 6741 6751 6761 6771 6781 6791 6801 6811 6821 6831 6841 6851 6861 6871 6881 6891 6901 6911 6921 6931 6941 6951 6961 6971 6981 6991 7001 7011 7021 7031 7041 7051 7061 7071 7081 7091 7101 7111 7121 7131 7141 7151 7161 7171 7181 7191 7201 7211 7221 7231 7241 7251 7261 7271 7281 7291 7301 7311 7321 7331 7341 7351 7361 7371 7381 7391 7401 7411 7421 7431 7441 7451 7461 7471 7481 7491 7501 7511 7521 7531 7541 7551 7561 7571 7581 7591 7601 7611 7621 7631 7641 7651 7661 7671 7681 7691 7701 7711 7721 7731 7741 7751 7761 7771 7781 7791 7801 7811 7821 7831 7841 7851 7861 7871 7881 7891 7901 7911 7921 7931 7941 7951 7961 7971 7981 7991 8001 8011 8021 8031 8041 8051 8061 8071 8081 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