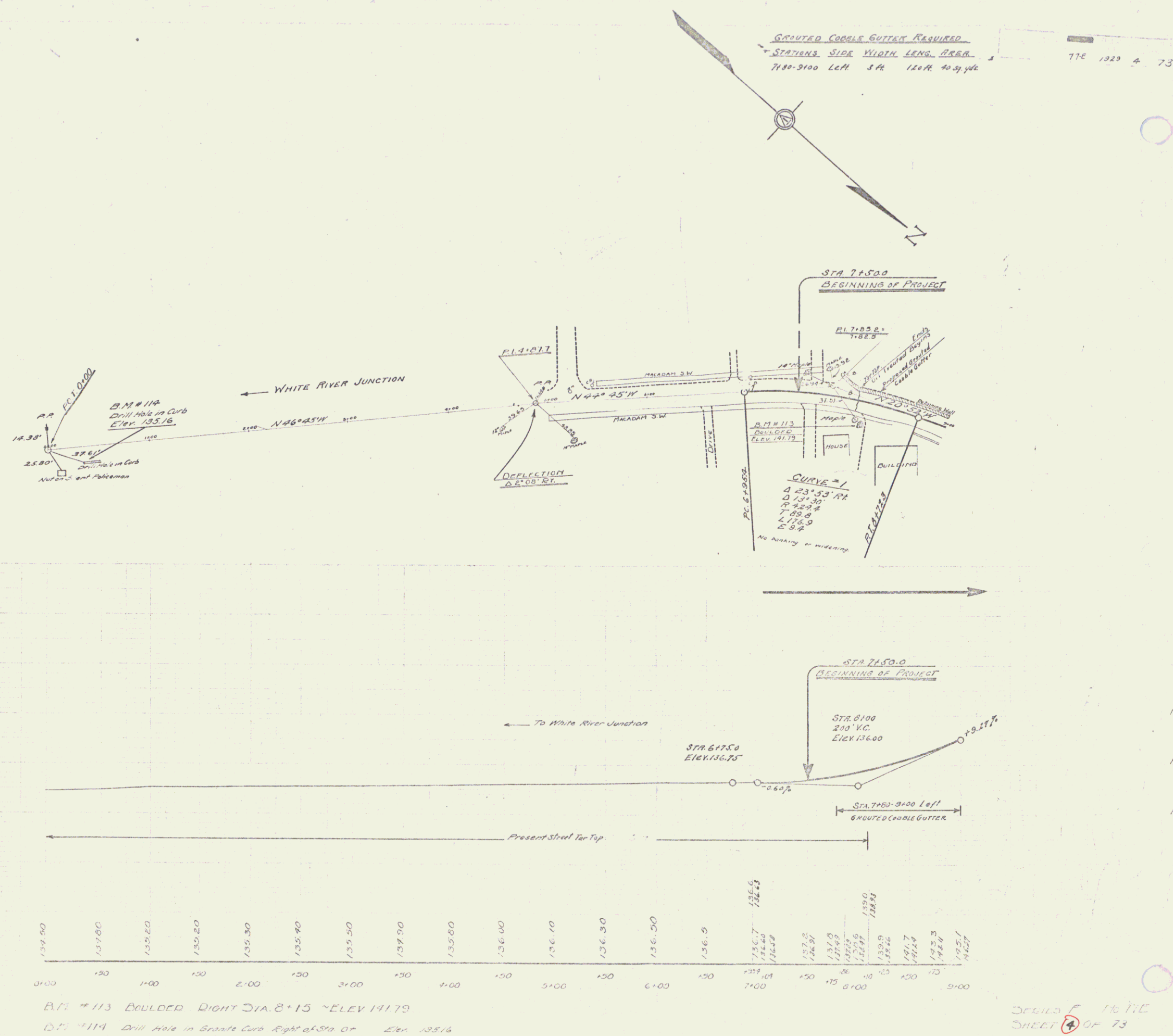
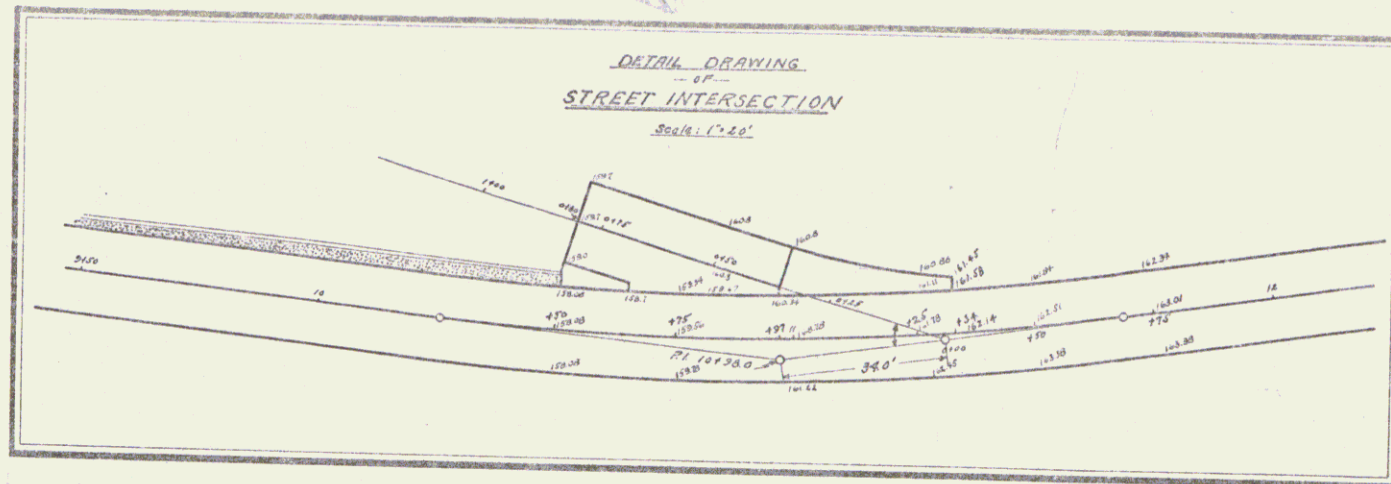


Doc.	Author
HL5.	Aug. 28 A 3 28
HL5.	A 3 28



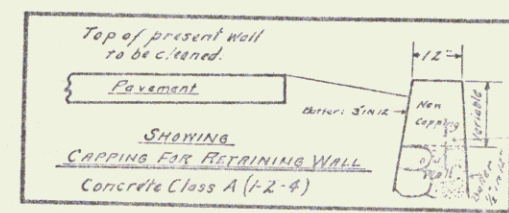
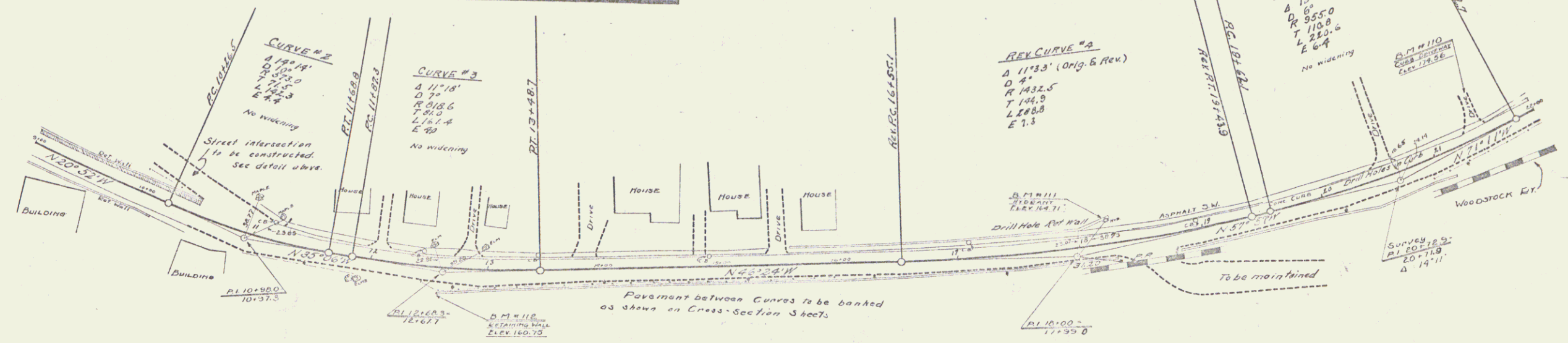


GROUTED CURB GUTTER REQUIRED
Stations 9140-10140 Left 3.0 ft. 140 ft. 47 sq yds

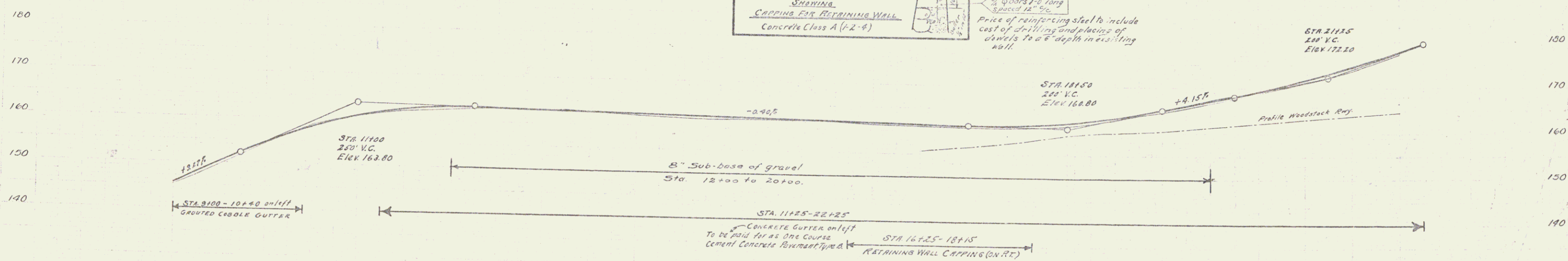
CONCRETE RETAINING WALL REQUIRED
Stations 16125-18115 140 ft. 1000 sq yds
Reinforcing Steel 284'

77-E 1989 5 73

Doc
STEVENS M.
AUG 20 1989



Doc
HLS
M.L.S.
AUG 20 1989



112.1	112.2	112.3	112.4	112.5	112.6	112.7	112.8	112.9	113.0	113.1	113.2	113.3	113.4	113.5	113.6	113.7	113.8	113.9	114.0	114.1	114.2	114.3	114.4	114.5	114.6	114.7	114.8	114.9	115.0	115.1	115.2	115.3	115.4	115.5	115.6	115.7	115.8	115.9	116.0	116.1	116.2	116.3	116.4	116.5	116.6	116.7	116.8	116.9	117.0	117.1	117.2	117.3	117.4	117.5	117.6	117.7	117.8	117.9	118.0	118.1	118.2	118.3	118.4	118.5	118.6	118.7	118.8	118.9	119.0	119.1	119.2	119.3	119.4	119.5	119.6	119.7	119.8	119.9	120.0	120.1	120.2	120.3	120.4	120.5	120.6	120.7	120.8	120.9	121.0	121.1	121.2	121.3	121.4	121.5	121.6	121.7	121.8	121.9	122.0	122.1	122.2	122.3	122.4	122.5	122.6	122.7	122.8	122.9	123.0	123.1	123.2	123.3	123.4	123.5	123.6	123.7	123.8	123.9	124.0	124.1	124.2	124.3	124.4	124.5	124.6	124.7	124.8	124.9	125.0	125.1	125.2	125.3	125.4	125.5	125.6	125.7	125.8	125.9	126.0	126.1	126.2	126.3	126.4	126.5	126.6	126.7	126.8	126.9	127.0	127.1	127.2	127.3	127.4	127.5	127.6	127.7	127.8	127.9	128.0	128.1	128.2	128.3	128.4	128.5	128.6	128.7	128.8	128.9	129.0	129.1	129.2	129.3	129.4	129.5	129.6	129.7	129.8	129.9	130.0	130.1	130.2	130.3	130.4	130.5	130.6	130.7	130.8	130.9	131.0	131.1	131.2	131.3	131.4	131.5	131.6	131.7	131.8	131.9	132.0	132.1	132.2	132.3	132.4	132.5	132.6	132.7	132.8	132.9	133.0	133.1	133.2	133.3	133.4	133.5	133.6	133.7	133.8	133.9	134.0	134.1	134.2	134.3	134.4	134.5	134.6	134.7	134.8	134.9	135.0	135.1	135.2	135.3	135.4	135.5	135.6	135.7	135.8	135.9	136.0	136.1	136.2	136.3	136.4	136.5	136.6	136.7	136.8	136.9	137.0	137.1	137.2	137.3	137.4	137.5	137.6	137.7	137.8	137.9	138.0	138.1	138.2	138.3	138.4	138.5	138.6	138.7	138.8	138.9	139.0	139.1	139.2	139.3	139.4	139.5	139.6	139.7	139.8	139.9	140.0	140.1	140.2	140.3	140.4	140.5	140.6	140.7	140.8	140.9	141.0	141.1	141.2	141.3	141.4	141.5	141.6	141.7	141.8	141.9	142.0	142.1	142.2	142.3	142.4	142.5	142.6	142.7	142.8	142.9	143.0	143.1	143.2	143.3	143.4	143.5	143.6	143.7	143.8	143.9	144.0	144.1	144.2	144.3	144.4	144.5	144.6	144.7	144.8	144.9	145.0	145.1	145.2	145.3	145.4	145.5	145.6	145.7	145.8	145.9	146.0	146.1	146.2	146.3	146.4	146.5	146.6	146.7	146.8	146.9	147.0	147.1	147.2	147.3	147.4	147.5	147.6	147.7	147.8	147.9	148.0	148.1	148.2	148.3	148.4	148.5	148.6	148.7	148.8	148.9	149.0	149.1	149.2	149.3	149.4	149.5	149.6	149.7	149.8	149.9	150.0	150.1	150.2	150.3	150.4	150.5	150.6	150.7	150.8	150.9	151.0	151.1	151.2	151.3	151.4	151.5	151.6	151.7	151.8	151.9	152.0	152.1	152.2	152.3	152.4	152.5	152.6	152.7	152.8	152.9	153.0	153.1	153.2	153.3	153.4	153.5	153.6	153.7	153.8	153.9	154.0	154.1	154.2	154.3	154.4	154.5	154.6	154.7	154.8	154.9	155.0	155.1	155.2	155.3	155.4	155.5	155.6	155.7	155.8	155.9	156.0	156.1	156.2	156.3	156.4	156.5	156.6	156.7	156.8	156.9	157.0	157.1	157.2	157.3	157.4	157.5	157.6	157.7	157.8	157.9	158.0	158.1	158.2	158.3	158.4	158.5	158.6	158.7	158.8	158.9	159.0	159.1	159.2	159.3	159.4	159.5	159.6	159.7	159.8	159.9	160.0	160.1	160.2	160.3	160.4	160.5	160.6	160.7	160.8	160.9	161.0	161.1	161.2	161.3	161.4	161.5	161.6	161.7	161.8	161.9	162.0	162.1	162.2	162.3	162.4	162.5	162.6	162.7	162.8	162.9	163.0	163.1	163.2	163.3	163.4	163.5	163.6	163.7	163.8	163.9	164.0	164.1	164.2	164.3	164.4	164.5	164.6	164.7	164.8	164.9	165.0	165.1	165.2	165.3	165.4	165.5	165.6	165.7	165.8	165.9	166.0	166.1	166.2	166.3	166.4	166.5	166.6	166.7	166.8	166.9	167.0	167.1	167.2	167.3	167.4	167.5	167.6	167.7	167.8	167.9	168.0	168.1	168.2	168.3	168.4	168.5	168.6	168.7	168.8	168.9	169.0	169.1	169.2	169.3	169.4	169.5	169.6	169.7	169.8	169.9	170.0	170.1	170.2	170.3	170.4	170.5	170.6	170.7	170.8	170.9	171.0	171.1	171.2	171.3	171.4	171.5	171.6	171.7	171.8	171.9	172.0	172.1	172.2	172.3	172.4	172.5	172.6	172.7	172.8	172.9	173.0	173.1	173.2	173.3	173.4	173.5	173.6	173.7	173.8	173.9	174.0	174.1	174.2	174.3	174.4	174.5	174.6	174.7	174.8	174.9	175.0	175.1	175.2	175.3	175.4	175.5	175.6	175.7	175.8	175.9	176.0	176.1	176.2	176.3	176.4	176.5	176.6	176.7	176.8	176.9	177.0	177.1	177.2	177.3	177.4	177.5	177.6	177.7	177.8	177.9	178.0	178.1	178.2	178.3	178.4	178.5	178.6	178.7	178.8	178.9	179.0	179.1	179.2	179.3	179.4	179.5	179.6	179.7	179.8	179.9	180.0	180.1	180.2	180.3	180.4	180.5	180.6	180.7	180.8	180.9	181.0	181.1	181.2	181.3	181.4	181.5	181.6	181.7	181.8	181.9	182.0	182.1	182.2	182.3	182.4	182.5	182.6	182.7	182.8	182.9	183.0	183.1	183.2	183.3	183.4	183.5	183.6	183.7	183.8	183.9	184.0	184.1	184.2	184.3	184.4	184.5	184.6	184.7	184.8	184.9	185.0	185.1	185.2	185.3	185.4	185.5	185.6	185.7	185.8	185.9	186.0	186.1	186.2	186.3	186.4	186.5	186.6	186.7	186.8	186.9	187.0	187.1	187.2	187.3	187.4	187.5	187.6	187.7	187.8	187.9	188.0	188.1	188.2	188.3	188.4	188.5	188.6	188.7	188.8	188.9	189.0	189.1	189.2	189.3	189.4	189.5	189.6	189.7	189.8	189.9	190.0	190.1	190.2	190.3	190.4	190.5	190.6	190.7	190.8	190.9	191.0	191.1	191.2	191.3	191.4	191.5	191.6	191.7	191.8	191.9	192.0	192.1	192.2	192.3	192.4	192.5	192.6	192.7	192.8	192.9	193.0	193.1	193.2	193.3	193.4	193.5	193.6	193.7	193.8	193.9	194.0	194.1	194.2	194.3	194.4	194.5	194.6	194.7	194.8	194.9	195.0	195.1	195.2	195.3	195.4	195.5	195.6	195.7	195.8	195.9	196.0	196.1	196.2	196.3	196.4	196.5	196.6	196.7	196.8	196.9	197.0	197.1	197.2	197.3	197.4	197.5	197.6	197.7	197.8	197.9	198.0	198.1	198.2	198.3	198.4	198.5	198.6	198.7	198.8	198.9	199.0	199.1	199.2	199.3	199.4	199.5	199.6	199.7	199.8	199.9	200.0	200.1	200.2	200.3	200.4	200.5	200.6	200.7	200.8	200.9	201.0	201.1	201.2	201.3	201.4	201.5	201.6	201.7	201.8	201.9	202.0	202.1	202.2	202.3	202.4	202.5	202.6	202.7	202.8	202.9	203.0	203.1	203.2	203.3	203.4	203.5	203.6	203.7	203.8	203.9	204.0	204.1	204.2	204.3	204.4	204.5	204.6	204.7	204.8	204.9	205.0	205.1	205.2	205.3	205.4	205.5	205.6	205.7	205.8	205.9	206.0	206.1	206.2	206.3	206.4	206.5	206.6	206.7	206.8	206.9	207.0	207.1	207.2	207.3	207.4	207.5	207.6	207.7	207.8	207.9	208.0	208.1	208.2	208.3	208.4	208.5	208.6	208.7	208.8	208.9	209.0	209.1	209.2	209.3	209.4	209.5	209.6	209.7	209.8	209.9	210.0	210.1	210.2	210.3	210.4	210.5	210.6	210.7	210.8	210.9	211.0	211.1	211.2	211.3	211.4	211.5	211.6	211.7	211.8	211.9	212.0	212.1	212.2	212.3	212.4	212.5	212.6	212.7	212.8	212.9	213.0	213.1	213.2	213.3	213.4	213.5	213.6	213.7	213.8	213.9	214.0	214.1	214.2	214.3	214.4	214.5	214.6	214.7	214.8	214.9	215.0	215.1	215.2	215.3	215.4	215.5	215.6	215.7	215.8	215.9	216.0	216.1	216.2	216.3	216.4	216.5	216.6	216.7	216.8	216.9	217.0	217.1	217.2	217.3	217.4	217.5	217.6	217.7	217.8	217.9	218.0	218.1	218.2	218.3	218.4	218.5	218.6	218.7	218.8	218.9	219.0	219.1	219.2	219.3	219.4	219.5	219.6	219.7	219.8	219.9	220.0	220.1	220.2	220.3	220.4	220.5	220.6	220.7	220.8	220.9	221.0	221.1	221.2	221.3	221.4	221.5	221.6	221.7	221.8	221.9	222.0	222.1	222.2	222.3	222.4	222.5	222.6	222.7	222.8	222.9	223.0	223.1	223.2	223.3	223.4	223.5	223.6	223.7	223.8	223.9	224.0	224.1	224.2	224.3	224.4	224.5	224.6	224.7	224.8	224.9	225.0	225.1	225.2	225.3
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WOOD GUARD RAIL REQUIRED
 Station Left Right
 25188-26124 24H -
 27143-27183 24H -

CABLE GUARD RAIL REQUIRED
 Station Left Right
 32148-32152 1048H -
 31100-32152 152H -

NEW REINFORCED CONCRETE PIPE CULVERTS REQUIRED
 Station Diam. Length Conc. B. Steel
 26100 18" 36H - 300cy 33"
 27171 18" 40H - 300cy 33"

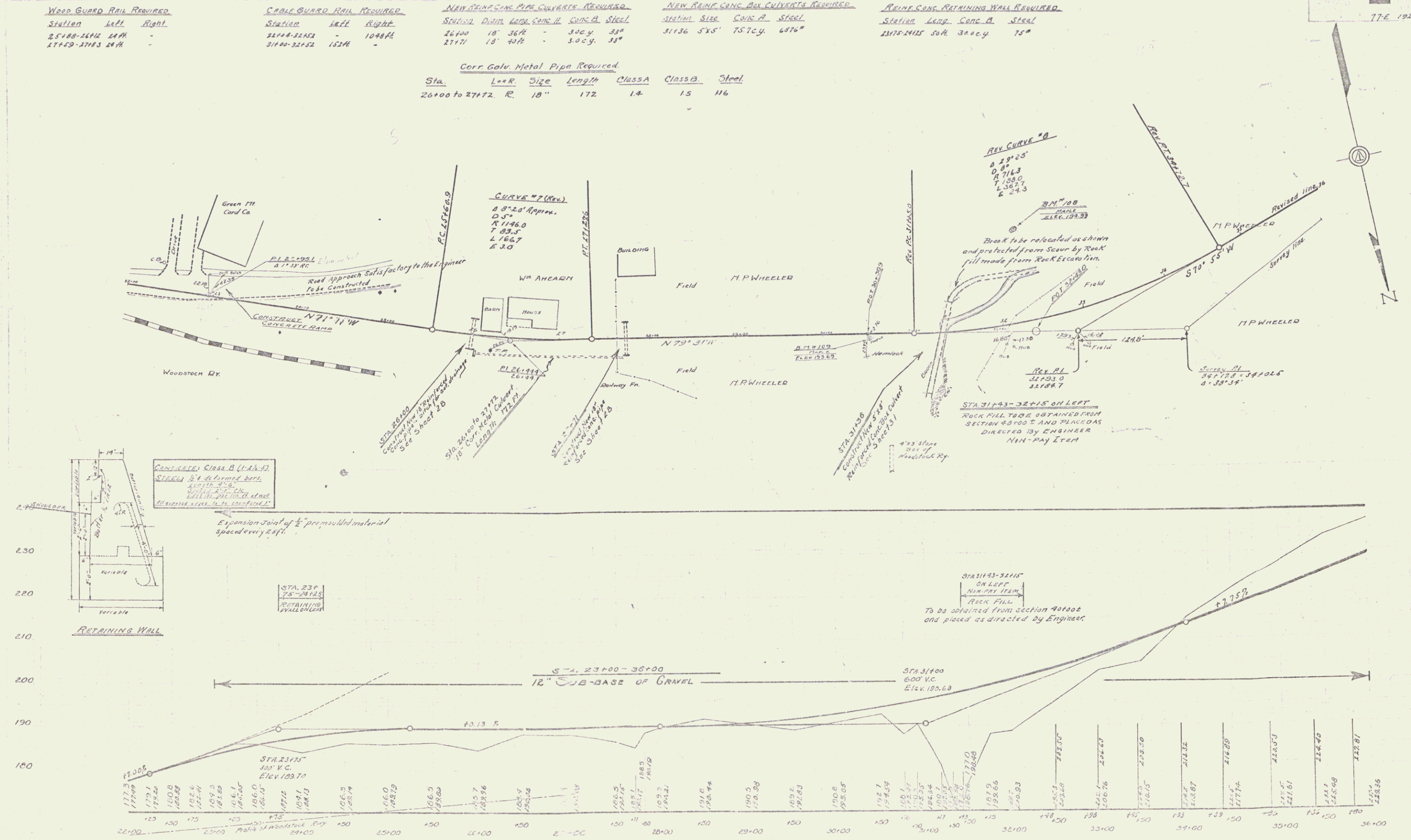
NEW REINFORCED CONCRETE BOX CULVERTS REQUIRED
 Station Size Conc. B. Steel
 31156 5X5' 757cy 6876"

REINFORCED CONCRETE RETAINING WALL REQUIRED
 Station Length Conc. B. Steel
 33175-34115 50H 300cy 75"

Corr. Galv. Metal Pipe Required
 Sta. L+R Size Length Class A Class B Steel
 26+00 to 27+72 R. 18" 172 1.4 1.5 116

DISEASING STEVENS R. BRIDGE

DISEASING STEVENS R. BRIDGE



BM #108 MAPLE LEFT STA 32+20 ~ ELEV. 194.99
 BM #109 MAPLE RIGHT STA 30+54 ~ ELEV. 193.69

SERIES F No 77E
 SHEET 6 OF 13

WOOD GUARD RAIL REQUIRED

Stations	Left	Right
39+04 - 40+00	24 ft	24 ft
39+04 - 40+06	24 ft	24 ft
40+06 - 41+02	24 ft	24 ft
41+02 - 41+08	24 ft	24 ft
41+08 - 41+14	24 ft	24 ft
41+14 - 41+20	24 ft	24 ft
41+20 - 41+26	24 ft	24 ft
41+26 - 41+32	24 ft	24 ft
41+32 - 41+38	24 ft	24 ft
41+38 - 41+44	24 ft	24 ft
41+44 - 41+50	24 ft	24 ft
41+50 - 41+56	24 ft	24 ft
41+56 - 41+62	24 ft	24 ft
41+62 - 41+68	24 ft	24 ft
41+68 - 41+74	24 ft	24 ft
41+74 - 41+80	24 ft	24 ft
41+80 - 41+86	24 ft	24 ft
41+86 - 41+92	24 ft	24 ft
41+92 - 41+98	24 ft	24 ft
41+98 - 42+04	24 ft	24 ft
42+04 - 42+10	24 ft	24 ft
42+10 - 42+16	24 ft	24 ft
42+16 - 42+22	24 ft	24 ft
42+22 - 42+28	24 ft	24 ft
42+28 - 42+34	24 ft	24 ft
42+34 - 42+40	24 ft	24 ft
42+40 - 42+46	24 ft	24 ft
42+46 - 42+52	24 ft	24 ft
42+52 - 42+58	24 ft	24 ft
42+58 - 42+64	24 ft	24 ft
42+64 - 42+70	24 ft	24 ft
42+70 - 42+76	24 ft	24 ft
42+76 - 42+82	24 ft	24 ft
42+82 - 42+88	24 ft	24 ft
42+88 - 42+94	24 ft	24 ft
42+94 - 43+00	24 ft	24 ft

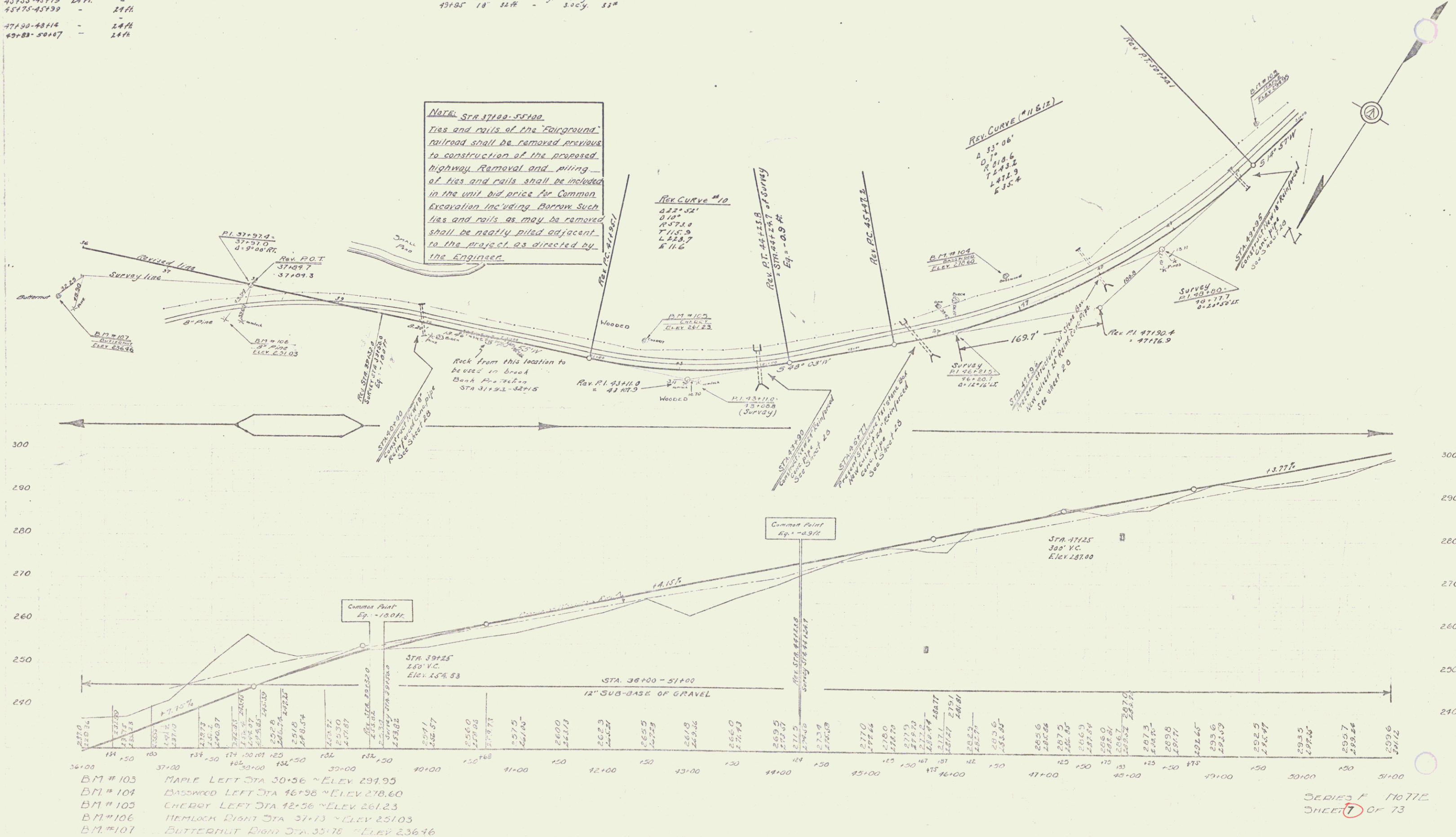
CABLE GUARD RAIL REQUIRED

Stations	Left	Right
41+65 - 51+00	375 ft	-

NEW RAIN GUTTER PIPES REQUIRED

Station	Left	Right
40+00	18" 4 ft	30 cy 3 ft
40+50	18" 4 ft	15 cy 3 ft
41+00	18" 4 ft	15 cy 3 ft
41+50	18" 4 ft	15 cy 3 ft
42+00	18" 4 ft	15 cy 3 ft
42+50	18" 4 ft	15 cy 3 ft
43+00	18" 4 ft	15 cy 3 ft
43+50	18" 4 ft	15 cy 3 ft
44+00	18" 4 ft	15 cy 3 ft
44+50	18" 4 ft	15 cy 3 ft
45+00	18" 4 ft	15 cy 3 ft
45+50	18" 4 ft	15 cy 3 ft
46+00	18" 4 ft	15 cy 3 ft
46+50	18" 4 ft	15 cy 3 ft
47+00	18" 4 ft	15 cy 3 ft
47+50	18" 4 ft	15 cy 3 ft
48+00	18" 4 ft	15 cy 3 ft
48+50	18" 4 ft	15 cy 3 ft
49+00	18" 4 ft	15 cy 3 ft
49+50	18" 4 ft	15 cy 3 ft
50+00	18" 4 ft	15 cy 3 ft
50+50	18" 4 ft	15 cy 3 ft
51+00	18" 4 ft	15 cy 3 ft

NOTE: STA 37+00 - 51+00
Ties and rails of the "Fairground" railroad shall be removed previous to construction of the proposed highway. Removal and piling of ties and rails shall be included in the unit bid price for Common Excavation including Barron. Such ties and rails as may be removed shall be neatly piled adjacent to the project as directed by the Engineer.

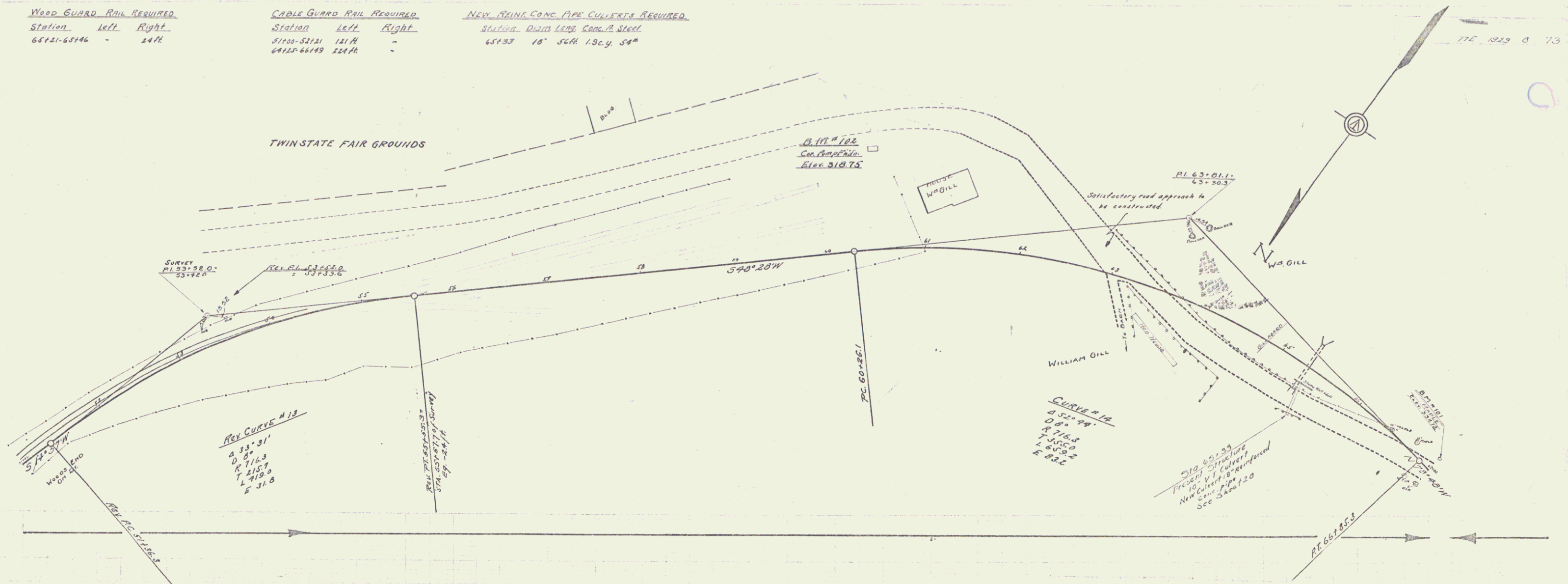


- BM #103 MAPLE LEFT STA 30+56 ~ ELEV 294.95
- BM #104 BASSWOOD LEFT STA 46+98 ~ ELEV 278.60
- BM #103 CHERRY LEFT STA 42+36 ~ ELEV 261.23
- BM #106 HEMLOCK RIGHT STA 31+13 ~ ELEV 251.03
- BM #107 BUTTERNUT RIGHT STA 35+78 ~ ELEV 236.46

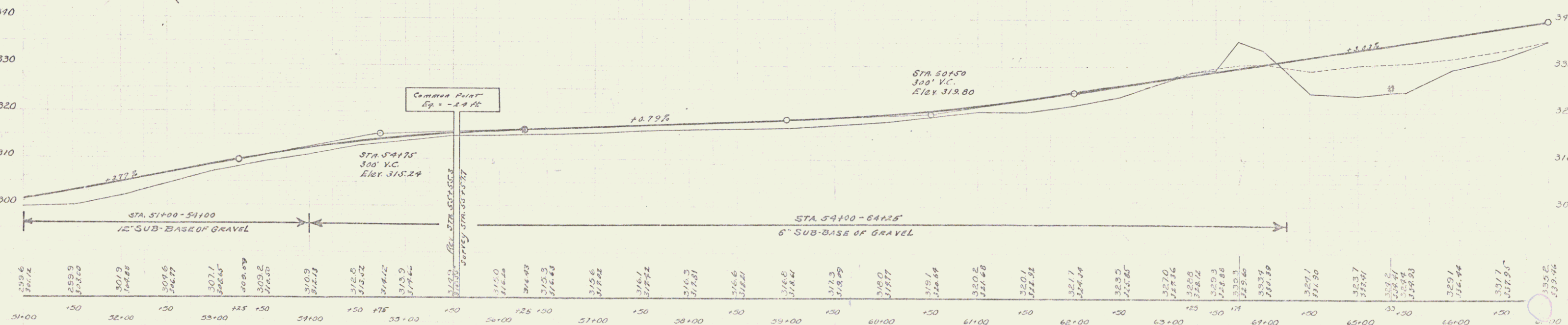
WOOD GUARD RAIL REQUIRED
 Station Left Right
 65+21-65+46 - 24 ft

CABLE GUARD RAIL REQUIRED
 Station Left Right
 51+00-52+21 12 ft
 64+25-66+49 12 ft

NEW POINT CONC. PIPE CULVERTS REQUIRED
 Station Point Length Conc. Pipe
 65+33 18' 36" 18 cy 54"



Aug 24/28
 H.S.

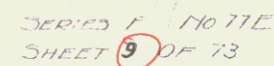


B.M. #101 MAPLE LEFT STA 66+98 ELEV. 334.12
 B.M. #102 CORNER GAS PUMP FOUNDATION LEFT STA 60+50 ELEV. 312.80

SHEET 6 OF 73

6

<u>NEW REIN. CONC. PIPE CULVERTS REQUIRED</u>					
Station	Diam	Length	Conc. A	Conc. B	Steel
71+38	18"	40 ft.	-	30 C.Y.	53 #
76+10	24"	36 ft.	15 C.Y.	-	54 #



WEED GUARD RAIL REQUIRED

Station	Left	Right
96+00-96+24	24 ft	24 ft
99+25-99+47	24 ft	24 ft
101+26-101+44	24 ft	24 ft
104+03-104+12	-	24 ft

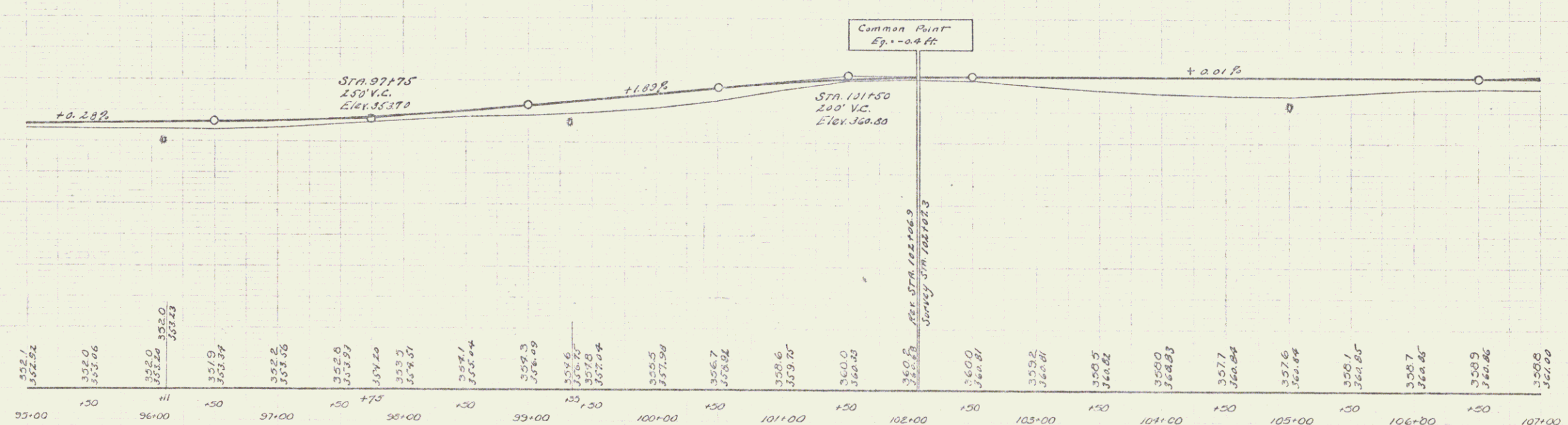
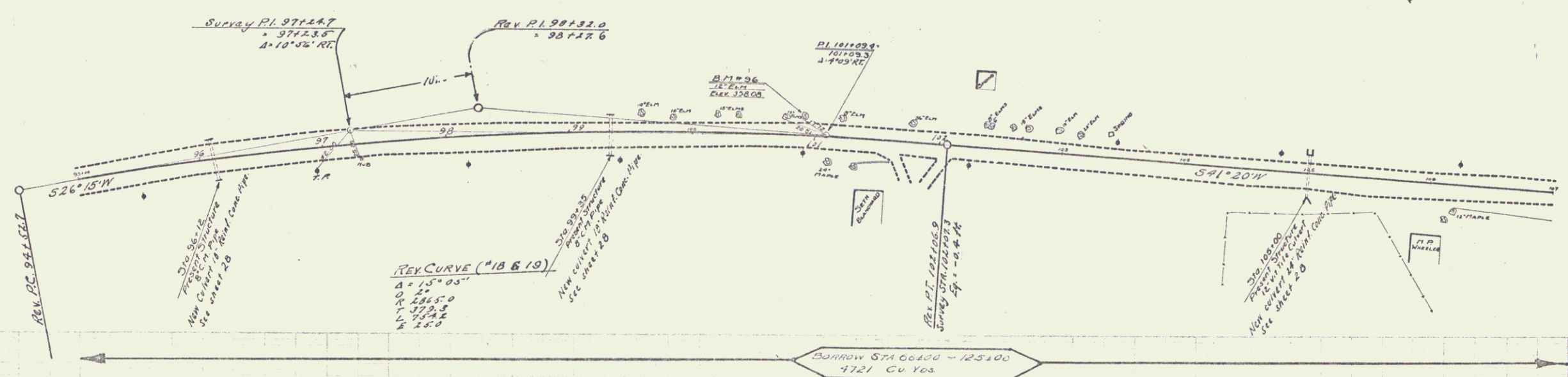
NEW RAMP CONC. FOR CULVERTS REQUIRED

Station	Width	Length	Concrete	Steel
96+12	10'	31 ft	30 cu y.	38"
99+35	15'	35 ft	30 cu y.	38"
105+10	14'	44 ft	25 cu y.	34"

77E 1939 11 73

Doc. No. 28
Stationing 11

Doc. No. 28
Stationing 11



B.M. #36 12' ELM LEFT STA 100+32 ~ ELEV 326.08

SERIES F No 77E
SHEET 11 OF 73

WOOD GUARD RAIL REQUIRED

Station	Left	Right
107+41-107+45	24 ft	24 ft
109+41-109+45	-	24 ft
117+53-117+77	24 ft	24 ft

CHALK GUARD RAIL REQUIRED

Station	Left	Right
108+81-108+77	96 ft	-
119+75-120+39	-	64 ft
119+75-120+35	80 ft	-

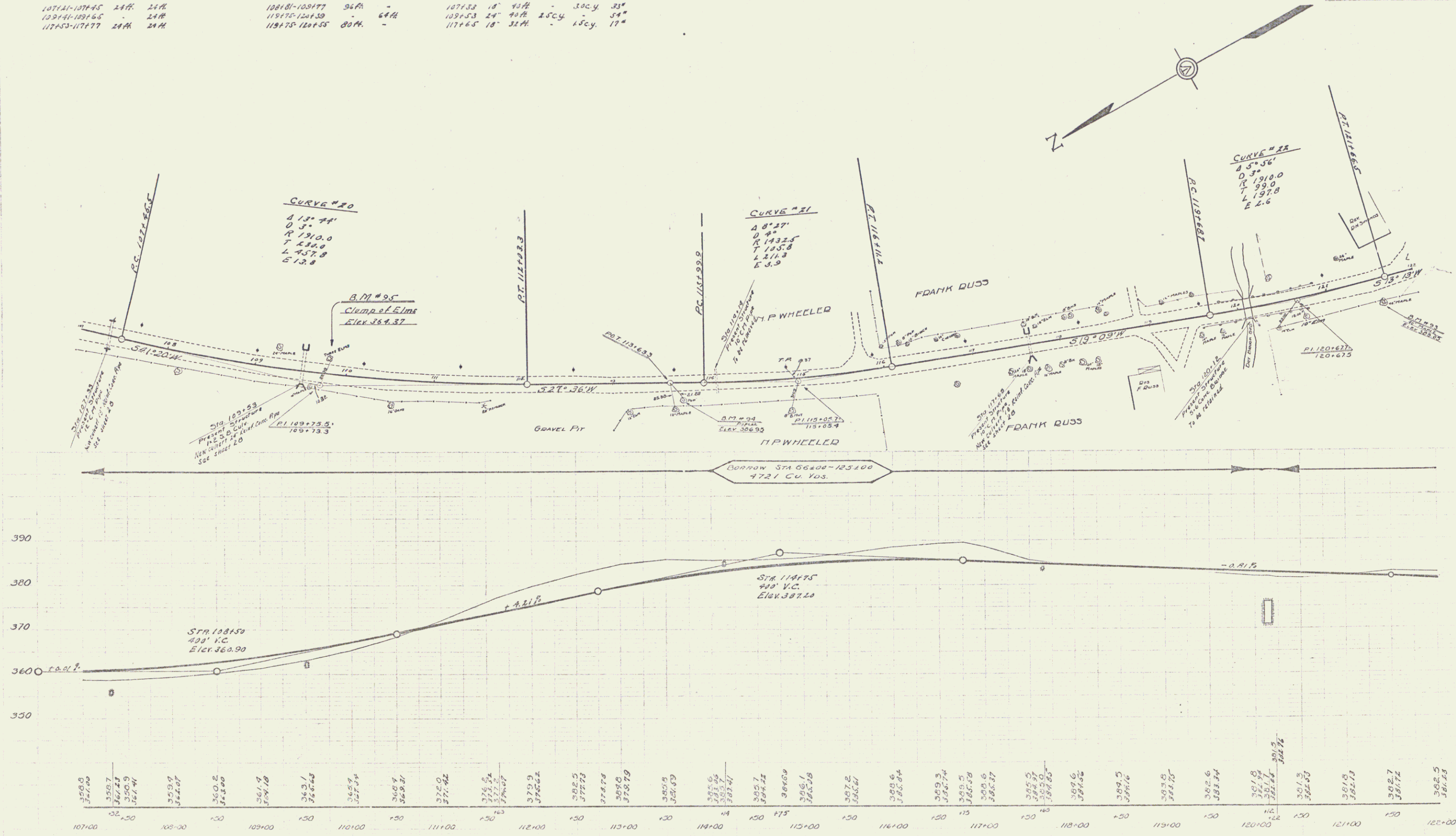
NEW REINFORCED CONCRETE CULVERTS REQUIRED

Station	Span	Length	Concrete	Steel
107+53	18"	40 ft	50 Cy	34"
109+53	24"	40 ft	15 Cy	34"
117+65	18"	32 ft	15 Cy	17"

77E 1929 12 73

DR. STEPHEN H. ...

DR. ...



B.M. #93 40' Maple Right STA 121+58 ~ ELEV 385.05
 B.M. #94 Popular Right STA 113+77 ~ ELEV 386.95
 B.M. #95 Spike in clump of Elms, 15 ft. LT of STA 109+79, Elev 364.37

SERIES F 1707E
SHEET 12 OF 73

WOOD GUARD RAIL REQUIRED
 Station Left Right
 128107-128131 - 24' R
 128111-128135 24' R -

CABLE GUARD RAIL REQUIRED
 Station Left Right
 136100-137152 152' R -
 136129-136177 - 48' R

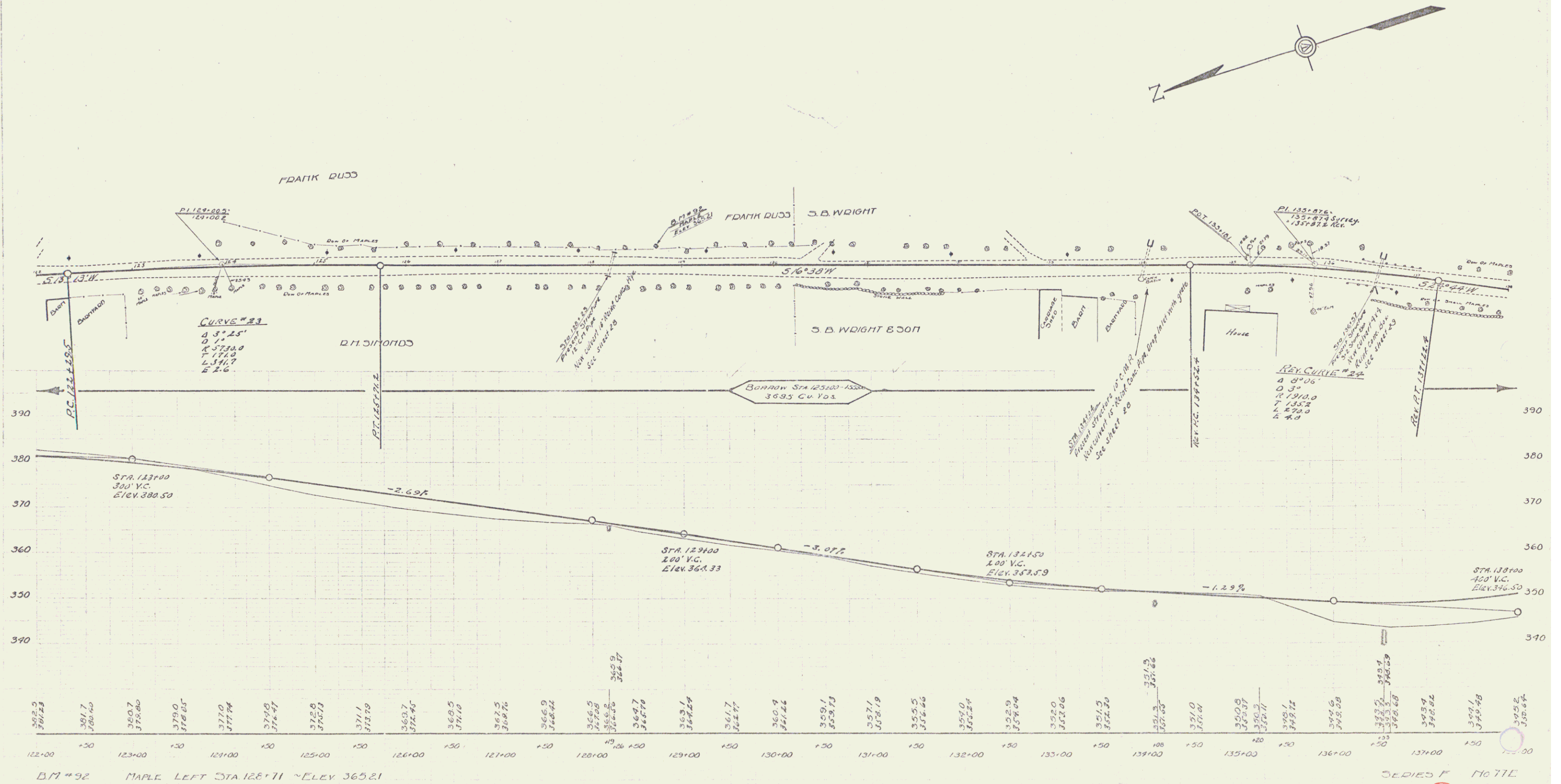
NEW REINFORCED CONCRETE BOX CULVERTS REQUIRED
 Station Left Right
 128123 15' 32' R - 3.0cy 33' -
 134124 15' 32' R 1.4cyd 33' -

NEW REINFORCED CONCRETE BOX CULVERTS REQUIRED
 Station Left Right
 136153 4' X 4' 26.0cy 172' R

776 1929 13 73

Dwg. 11 Aug 1928

Dwg. 11 Aug 1928



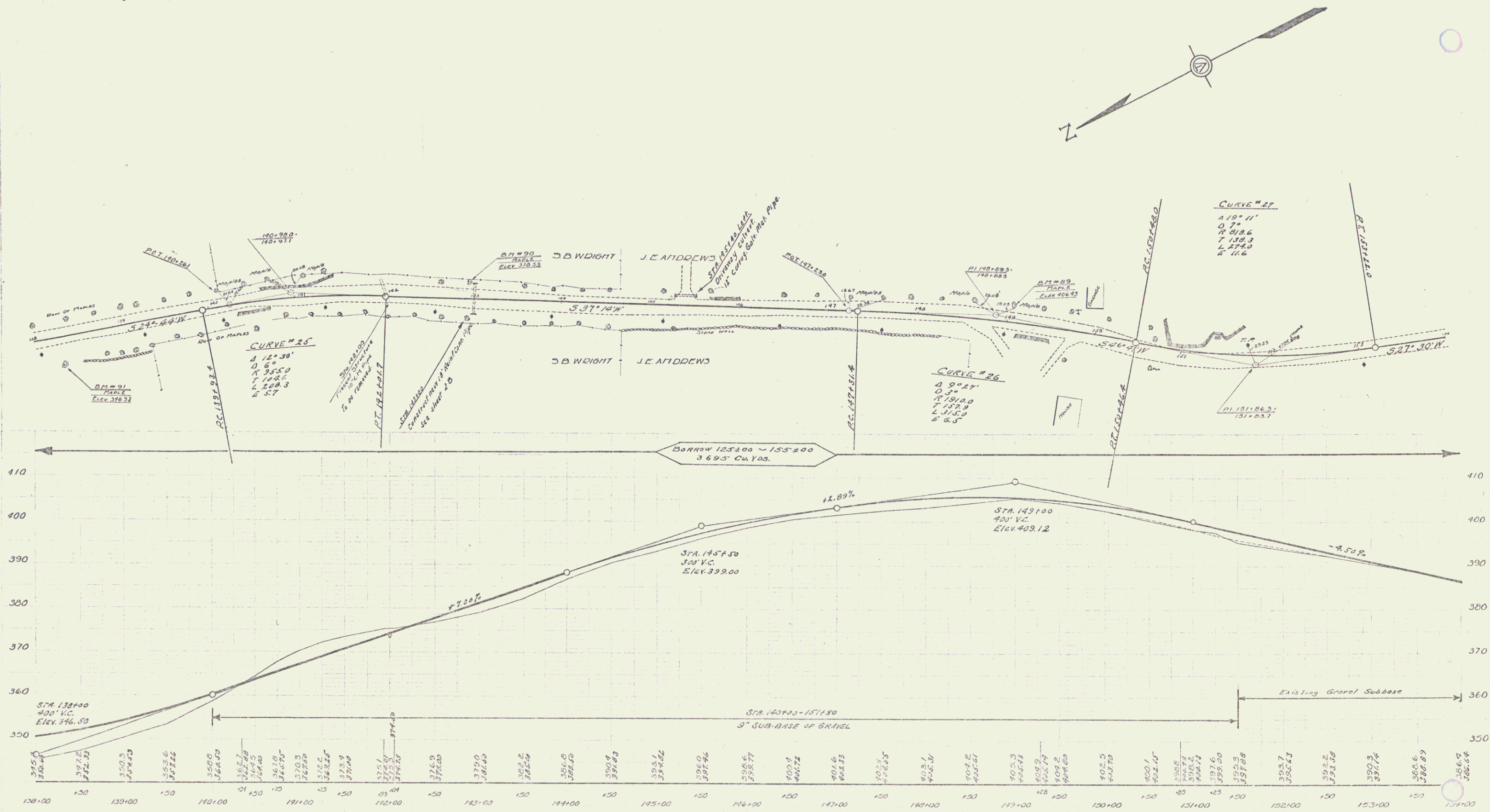
WOOD GUARD RAIL REQUIRED
 Station Left Right
 142180-143112 24' 24'

NEW BRINK CUNG PIPE CULVERTS REQUIRED
 Station Diam Leng Conc B. Steel
 143100 18" 36' 31cy 33"

NEW DRIVEWAY PIPE CULVERTS REQUIRED
 Station Side Diam Leng Conc. Rubble Masonry
 145140 24" 12" 24' 16 cu yds

275 1929 14 73

DUE TO ASSESSMENT
 SHEET 14 OF 73



B.M. #89 MAPLE LEFT STA. 149+06 ~ ELEV. 406.93
 B.M. #90 MAPLE LEFT STA. 142+96 ~ ELEV. 318.53
 B.M. #91 MAPLE RIGHT STA. 138+26 ~ ELEV. 316.91

SERIES F 11071E
 SHEET 14 OF 73

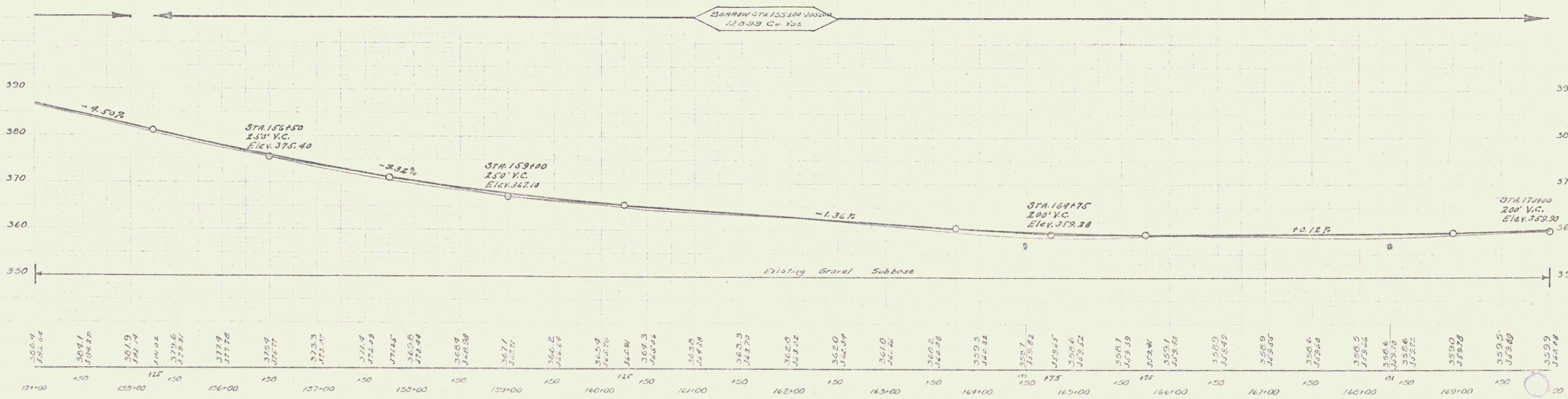
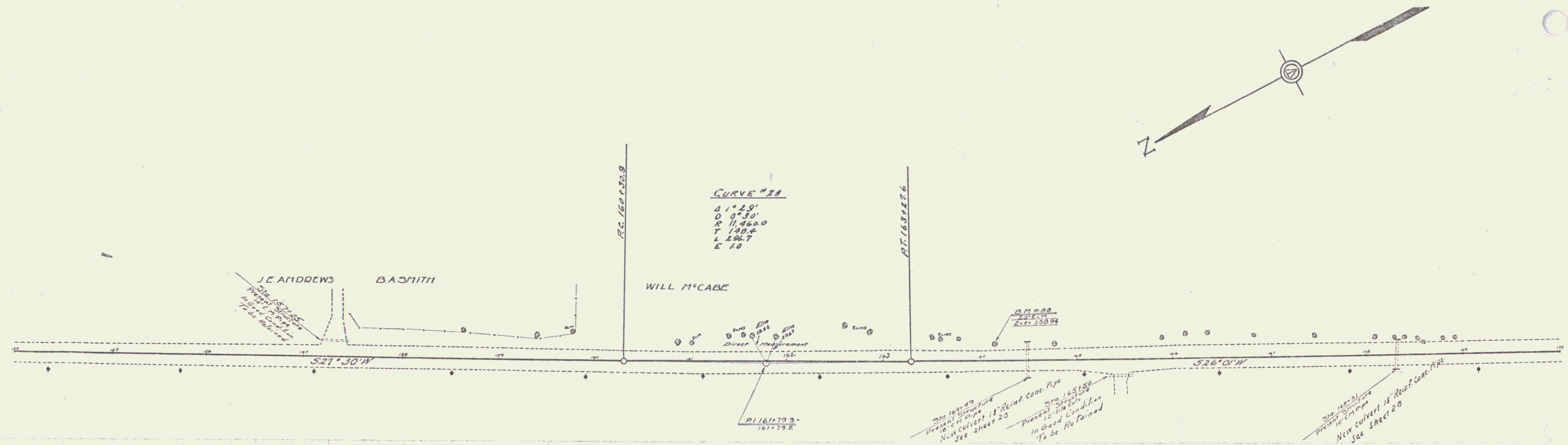
WOOD GUARD RAIL REQUIRED

Station	Left	Right
164+37-164+41	24R	24R
168+19-168+23	24R	24R

NEW POINT CODE PIPE CULVERTS REQUIRED

Station	Dim.	Qty.	Conc. Pipe	Steel
164+49	18"	36R	30cy	33"
168+31	18"	32R	23cy	33"

775 1229 13 73



BM 1+80 20' ELM LEFT STA 169+13 ~ ELEV. 358.94

SERIES F No 17E
SHEET 73 OF 73

WOOD GUARD RAIL REQUIRED
 Station Left Right
 17102+74.26 24" 24"

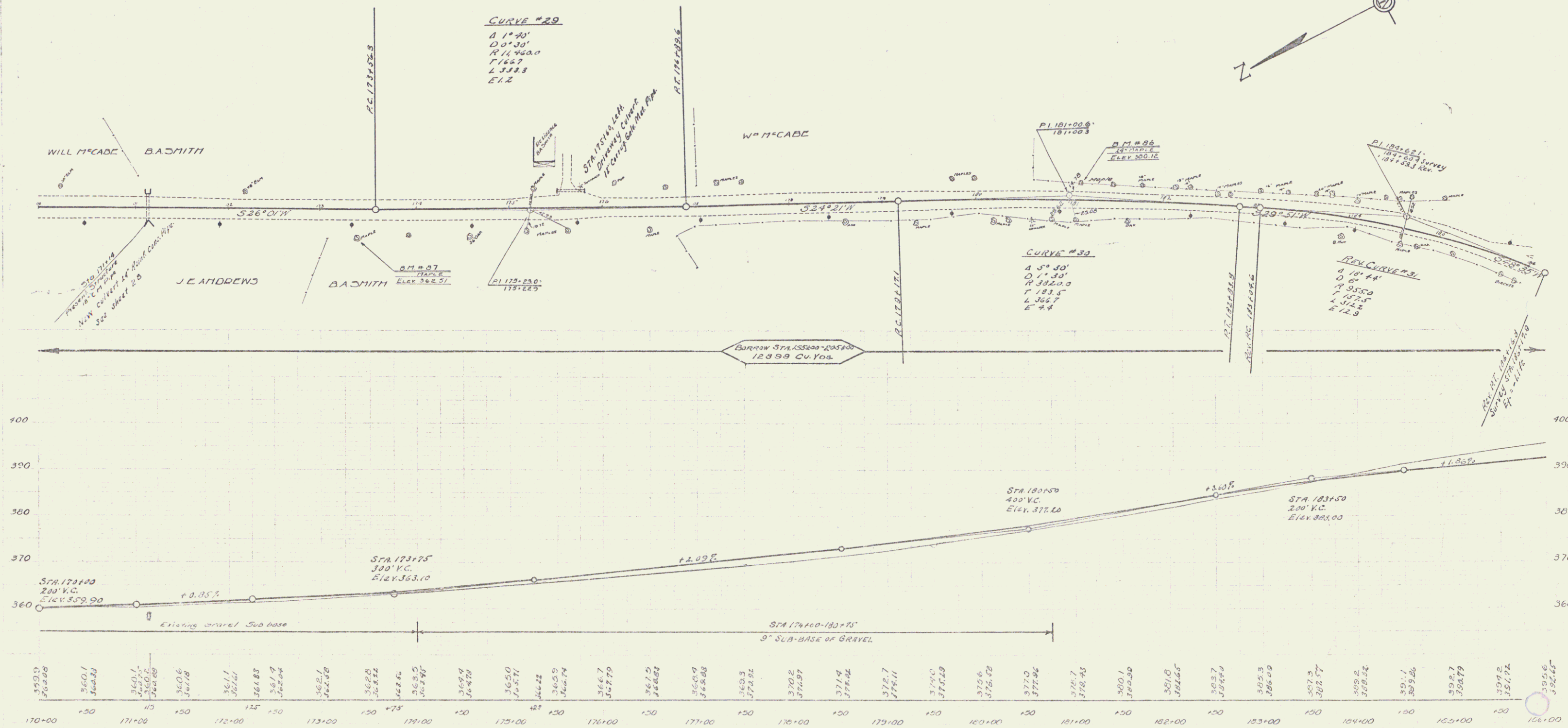
NEW REIN. CONC. PIPE CULVERTS REQUIRED
 Station 24" 32" 24" 34"
 171114 24" 32" 24" 34"

NEW DRIVEWAY PIPE CULVERTS REQUIRED
 CORRUG. GALV. METAL PIPE
 Station Side Diam. Long Cam. Rubble Masonry
 175760 LT. 12" 30ft. 16 cu yds.

715 1923 16 73

STEVENS 11' 4" 0"

RL'S
 40' 30" 0"



BM #86 24" MAPLE LEFT STA 181+11 ~ELEV 360.12
 BM #87 16" MAPLE RIGHT STA 173+37 ~ELEV 362.51

SERIES F No 77E
 SHEET 16 OF 73

CABLE GUARD RAIL REQUIRED

Station	Left	Right
188+00-190+00	-	200' H
188+15-189+15	135' H	-
193+05-196+10	198' H	-
194+00-194+10	-	176' H

NEW REIN CONC PIPE CULVERTS REQUIRED

Station	Diam	Length	Conc. R.	Steel
195+00	24"	60'	25cy	34'

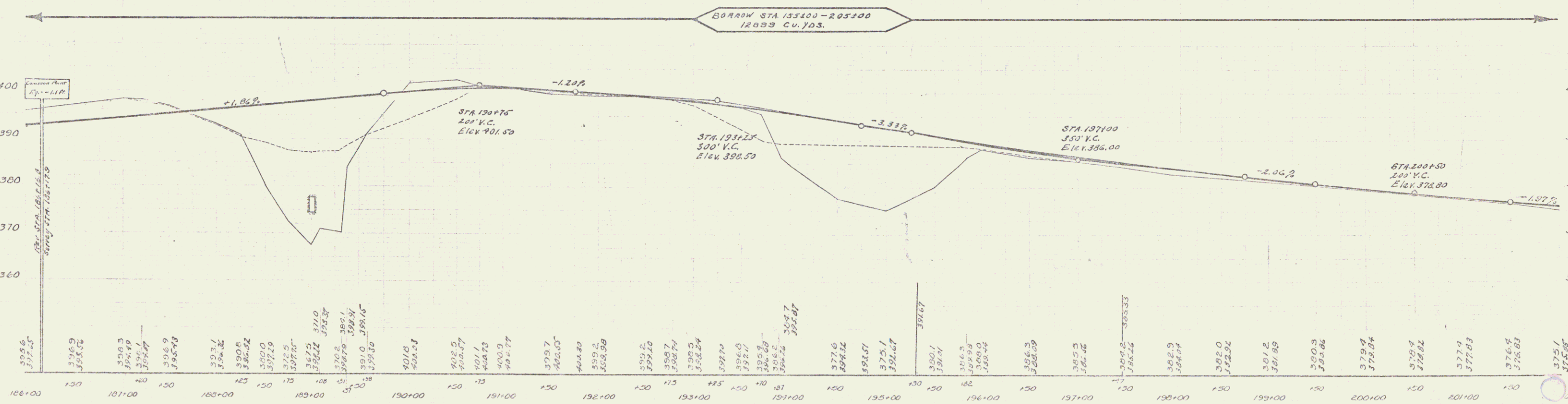
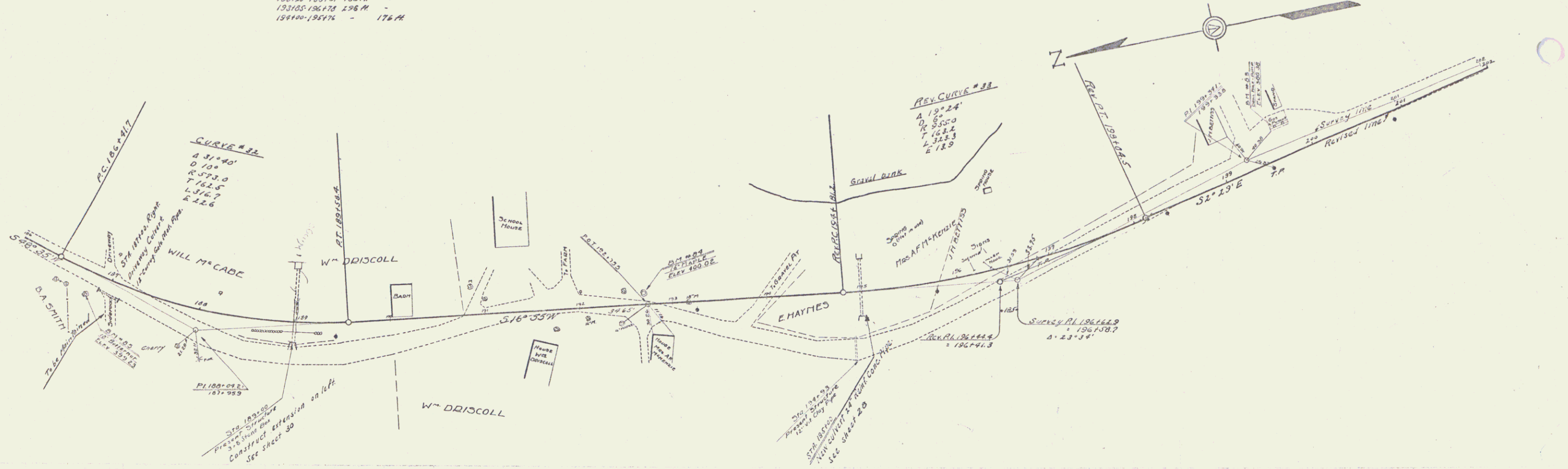
NEW DRIVEWAY PIPE CULVERTS REQUIRED

Station	Side	Diam	Length	Conc. R.	Steel
187+00	Right	12"	24'	16cy	2500'

REIN CONC CULVERT REPAIRS REQUIRED

Station	Side	Type	Conc. R.	Steel
189+00	5'x6'	Box	48cy	2500'

77E 1923 17 13



BM #83 DOILL HOLE - PUMP LEFT STA 199+76 ~ ELEV 380.38
 BM #84 MAPLE LEFT STA 192+11 ~ ELEV 100.02
 BM #85 B. NUT RIGHT STA 186+01 ~ ELEV 399.23

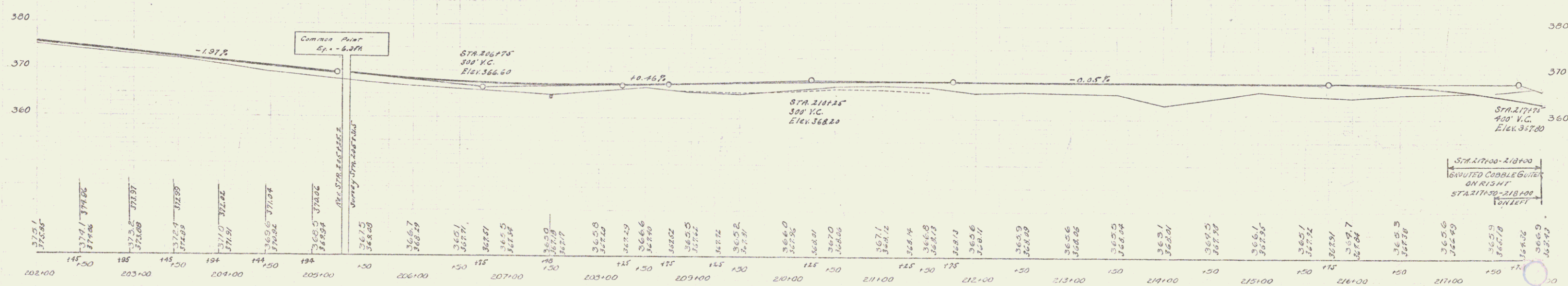
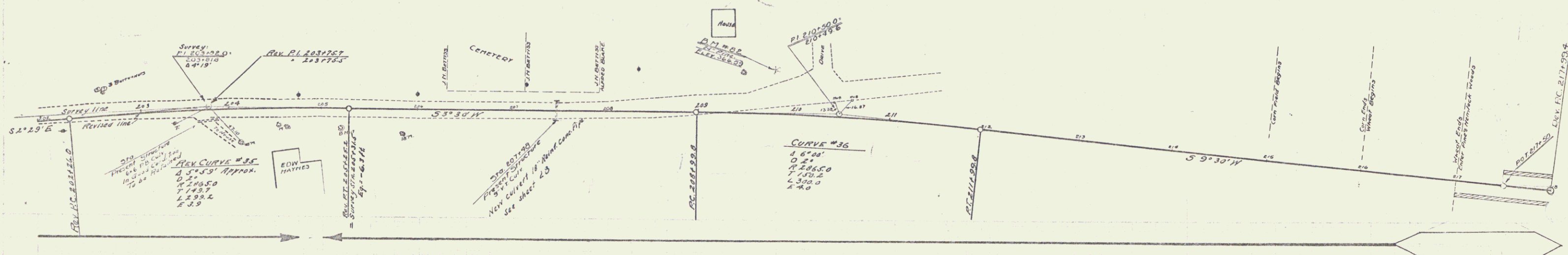
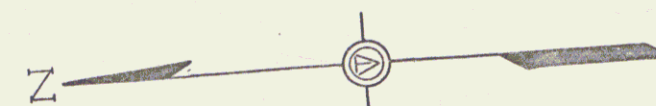
SERIES F No 77E
 SHEET 77 OF 73

WOOD GUARD RAIL REQUIRED
 STATION 2071+36-2071+60
 24" 14"

NEW REIN CONC. PIPE GUARD RAIL REQUIRED
 STATION 2071+60
 18" DIA. CONC. PIPE
 33"

GRADED COBBLE GUTTER REQUIRED
 STATION 21740+00-21740+10
 100' 4" 11.73' yds.
 21740+10-21740+20
 100' 4" 11.73' yds.
 For Design See Sheet 2

77E 1923 10 73



DESIGNED BY No. 77E
 SHEET 10 OF 73

WOOD GUARD RAIL REQUIRED

Station	Left	Right
226183-226187	24 ft	
226187-226191		24 ft
226191-226194		24 ft
226194-226197	24 ft	

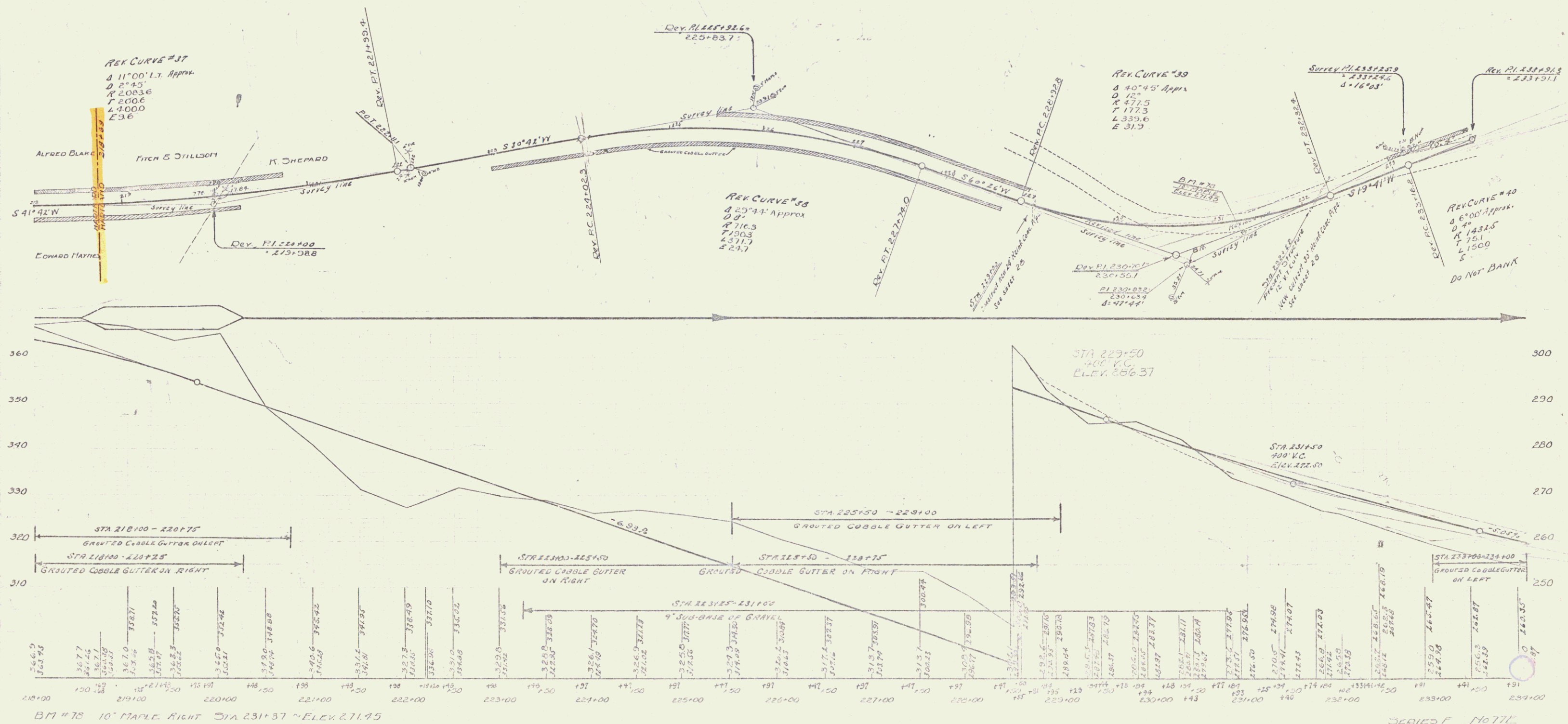
NEW RAINING CONC. PIPE CULVERTS REQUIRED

Station	Dist	Length	Conc. R	Steel
226180	24'	36 ft	16 CY	54"
226182	30'	36 ft	35 CY	58"

GRADED COBBLE GUTTER REQUIRED

Station	Left	Right	Area	Width
226180-226184	24'	24'	111 sq ft	4 FT
226184-226187	24'	24'	122 "	4 FT
226187-226191	24'	24'	150 "	4 FT
226191-226194	24'	24'	150 "	4 FT
226194-226197	24'	24'	150 "	4 FT

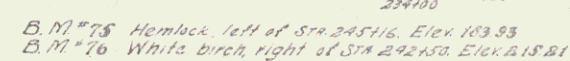
For Design See Sheet 2



SERIES F No 77E
 SHEET 19 OF 73

<u>GRAVEL COARSE SIZES REQUIRED</u>				
<u>Station</u>	<u>Height</u>	<u>Length</u>	<u>Area</u>	<u>Width</u>
134600-134620	50H	222	sq. yds	9 FT
134620-134725	LA	100H	444	9 FT
134725-134815	LA	100H	89 0	9 FT
134815-134915	50H	222	-	9 FT
134915-134965	LA	100H	44.4	9 FT

For Design See Sheet 2



SERIES F, # 77-E
SHEET 20 OF 73.

CABLE GUARD RAIL REQUIRED

STATION	LEO. RIGHT
246100-249124	324 ft.
246100-249124	- 320 ft.
251175-252179	- 124 ft.
251175-252179	126 ft.

REV. CURVE (#44X 55)
 Δ 64°25'
 D 12°
 R 4775
 T 355.9
 L 536.8
 E 86.9

The material in the present Superstructure to become the property of the Contractor and to be removed by him from the site.

The two concrete piers to be removed to the low water elevation by the Contractor and to be paid for as Structure Excavation.
 Estimated Quantity for Two Piers = 150 Cu. Yds.

77E 1929 21 73

170
160
150
140
130
120

170
160
150
140
130
120

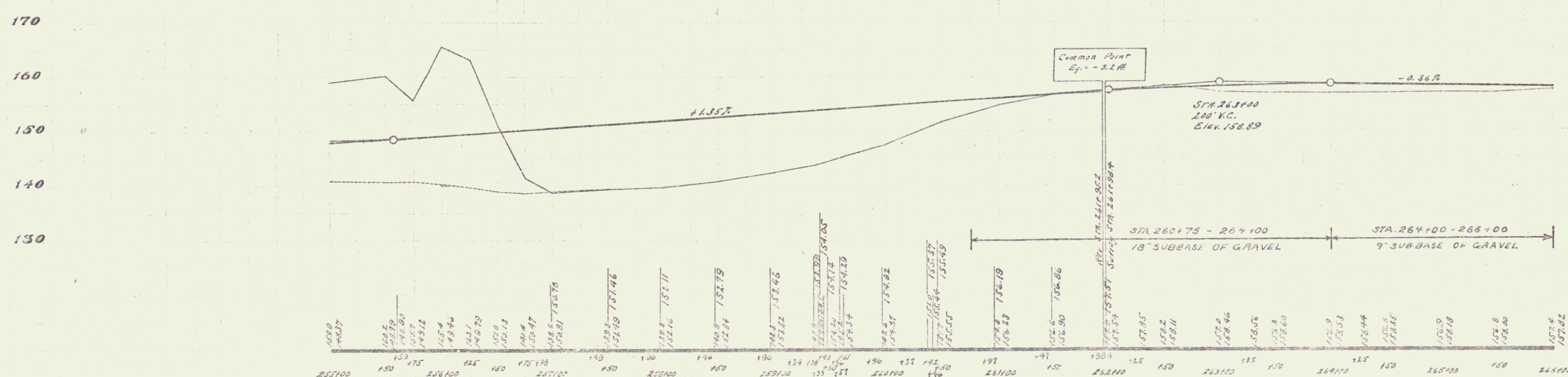
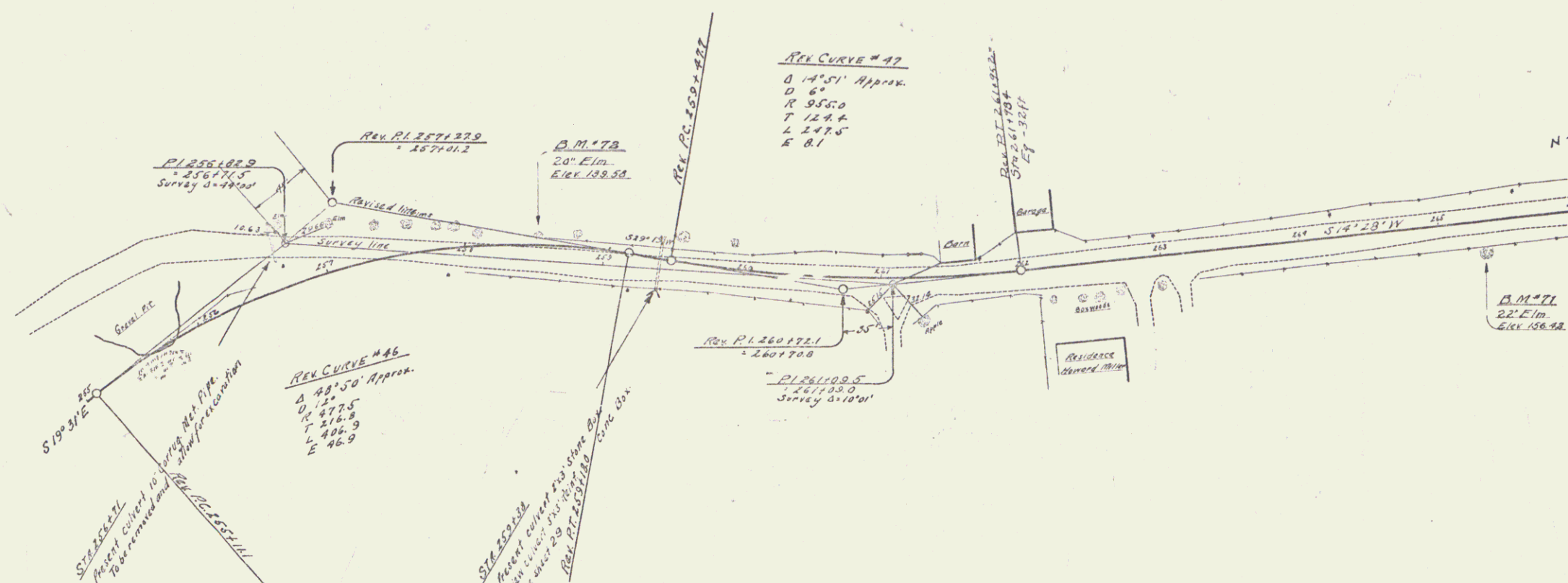
B.M. 73 on right of Sta. 251176 Elev. 141.37
 D.M. 74 on right of Sta. 246100 Elev. 143.27

HARTLAND BRIDGE
 SERIES F 77E
 SHEET 21 OF 73

NEW REIN. CONC. BOX CULVERTS REQUIRED

<u>Station</u>	<u>Size</u>	<u>Conc. A.</u>	<u>Steel</u>
259+80	3'x3'	254 c.y.	1710#

77E 1929 22 73



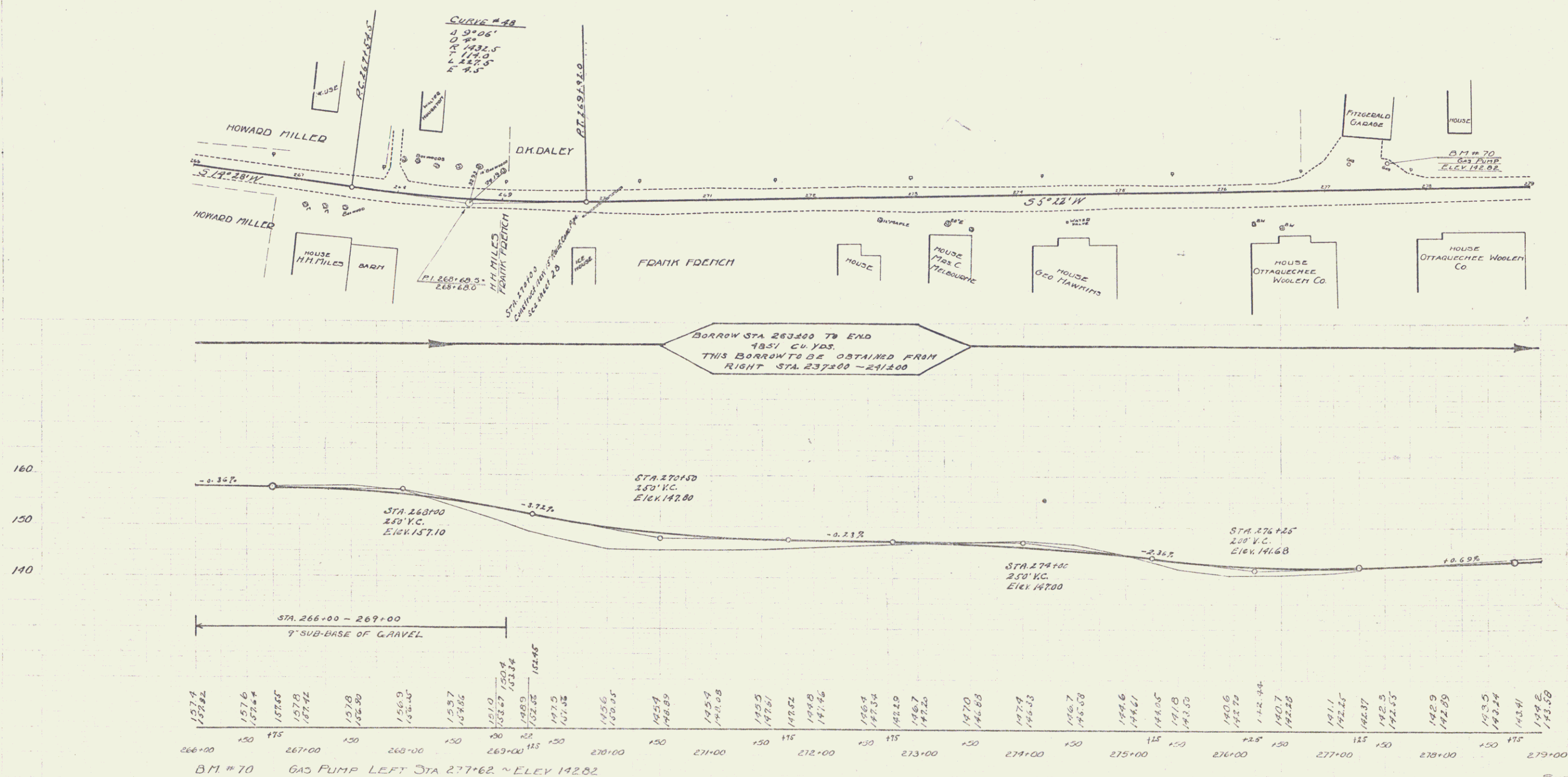
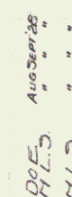
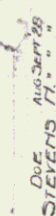
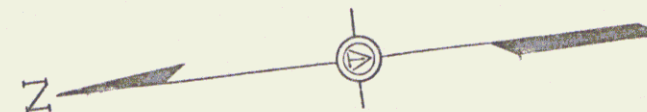
B.M. 71 22' Elm right of STA 265434 Elev 156.48
B.M. 72 20' Elm left of STA 265455 Elev 139.58

SERIES F, # 77-E
SHEET 22 OF 73

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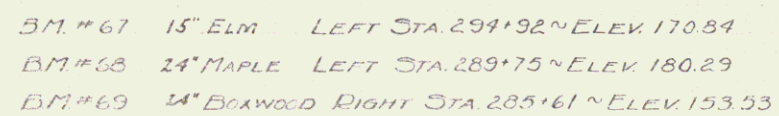
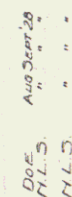
Station	Diam	Length	Conc. B.	Steel
270+00	18"	44 ft	23 c.y.	33"

77E 1929 23 73



SERIES F No 77E
SHEET 23 OF 73

77E 1929 24 73



SERIES F No 77E
SHEET 24 OF 73

NEW REINF. CONC. PIPE CULVERTS REQUIRED

Station Diam. Long. Conc. A. Steel
303120 30' 60ft. 23c.y. 58"

HEADWALL AT OUTLET OF 15" VIT. CLAY PIPE
CONC. B... 1.2 cu. yds
STEEL... 17#

