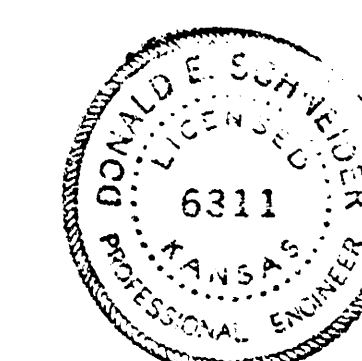
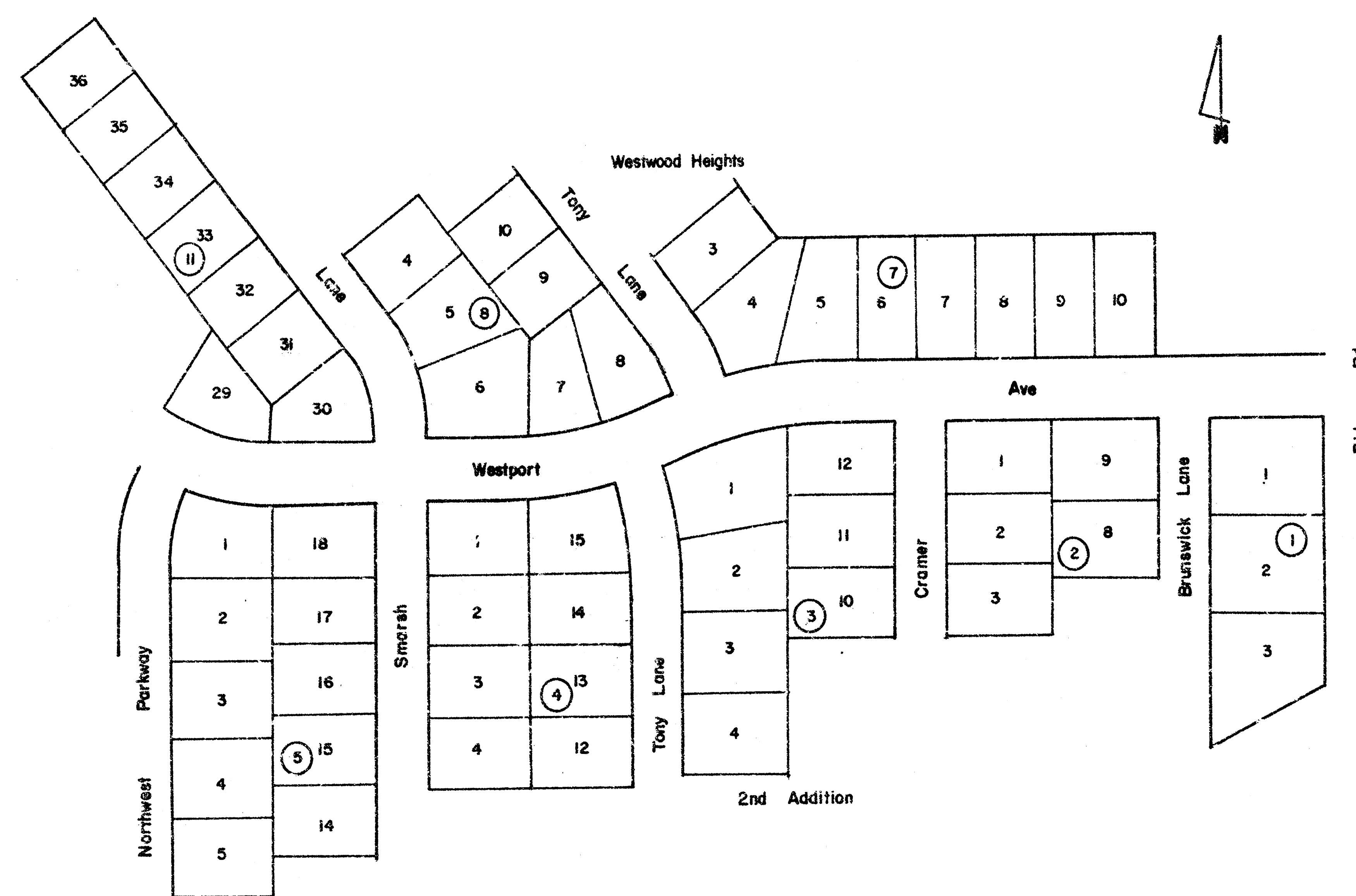
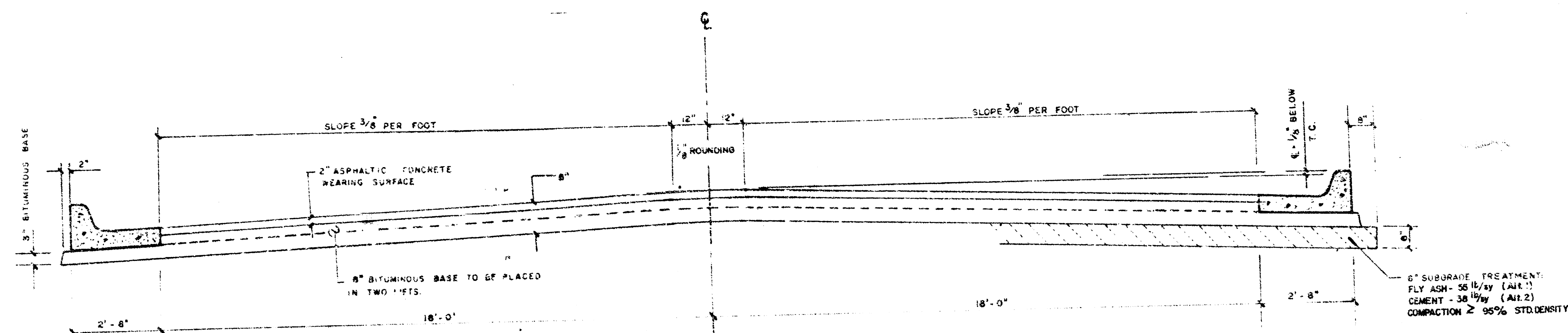


WESTPORT AVE



PROJECT DESCRIPTION		
WESTPORT AVE - from the Wly corner of lot 29, Block 11, Westwood Heights 2nd Addition and the Ely corner of lot 12, Block 15, Westwood Heights 2nd Addition to the West line of Ridge Road.		
PROJECT NUMBER		
472-76-245-80793-000-000-001		
BOOK NO. M3 30	APPROVED BY	DATE
DRAWN BY FLEWING	REVISOR	1/10
CITY OF WICHITA		
DEPARTMENT OF ENGINEERING		
DIRECTOR OF ENG. CITY ENGINEER		SCALE
R. W. BRUGSMAN		1" = 20'



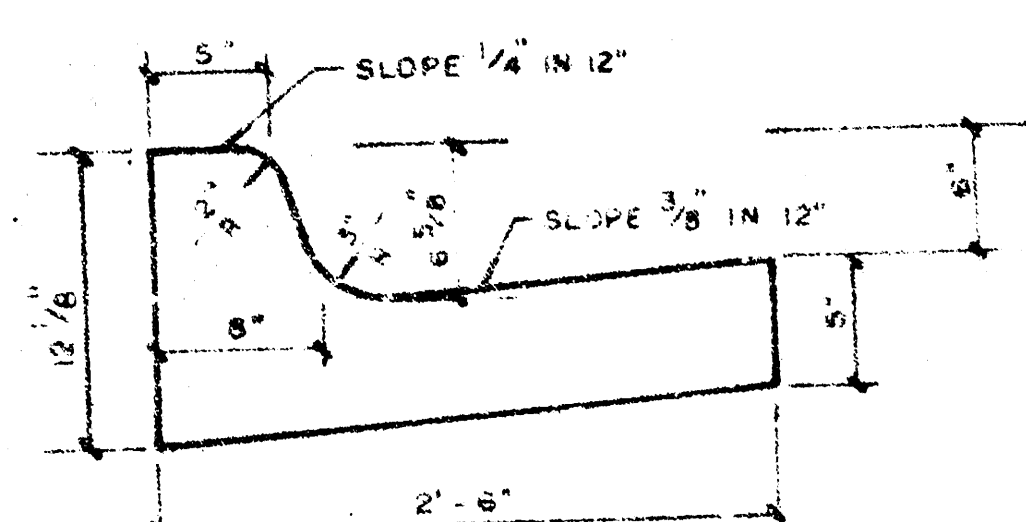
TYPICAL SECTION

37' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE

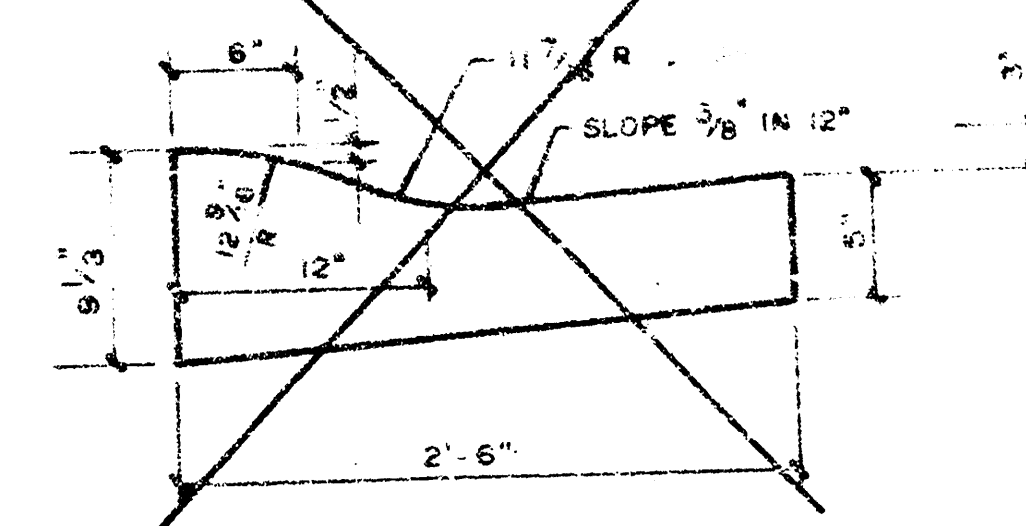
A TACK COAT OF EMULSIFIED ASPH(55-10 or CSS-10) SHALL BE APPLIED AT AN APPROXIMATE RATE 0.05 GALLONS PER SQ YD BETWEEN LIFTS OF ASPHALTIC MATERIALS WHEN ORDERED BY THE ENGINEER. TACK COAT WILL NOT BE PAID DIRECTLY AND SHALL BE CONSIDERED AS SUBSIDIARY TO PRICE BID FOR ASPHALTIC PAVEMENT. BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR CROWN AND GRADE. CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF 1' WITH JOINTS IN PRECEDING LIFTS AND PLACED SUCH THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE IN THE TOP LIFT.

THE A.C. PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQ YDS 8" A.C. PAVEMENT (8" BITUMINOUS BASE).
THE BITUMINOUS BASE UNDER THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQ YDS 3" BITUMINOUS BASE.

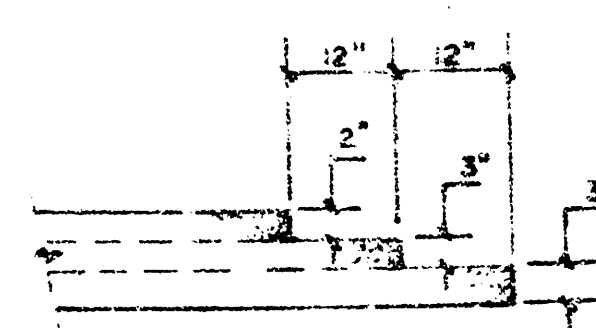
COMBINED CURB & GUTTER



ROLL TYPE CURB & GUTTER



DETAIL OF TRANSVERSE CONSTRUCTION JOINTS



TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT TEMPORARILY ENDS TO FACILITATE FUTURE PAVEMENT CONSTRUCTION AS SHOWN BY DETAIL. THE COST OF CONSTRUCTING THE TRANSVERSE CONSTRUCTION JOINTS SHALL NOT BE MEASURED OR PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS OF A.C. PAVEMENT.

CITY OF WICHITA, KANSAS

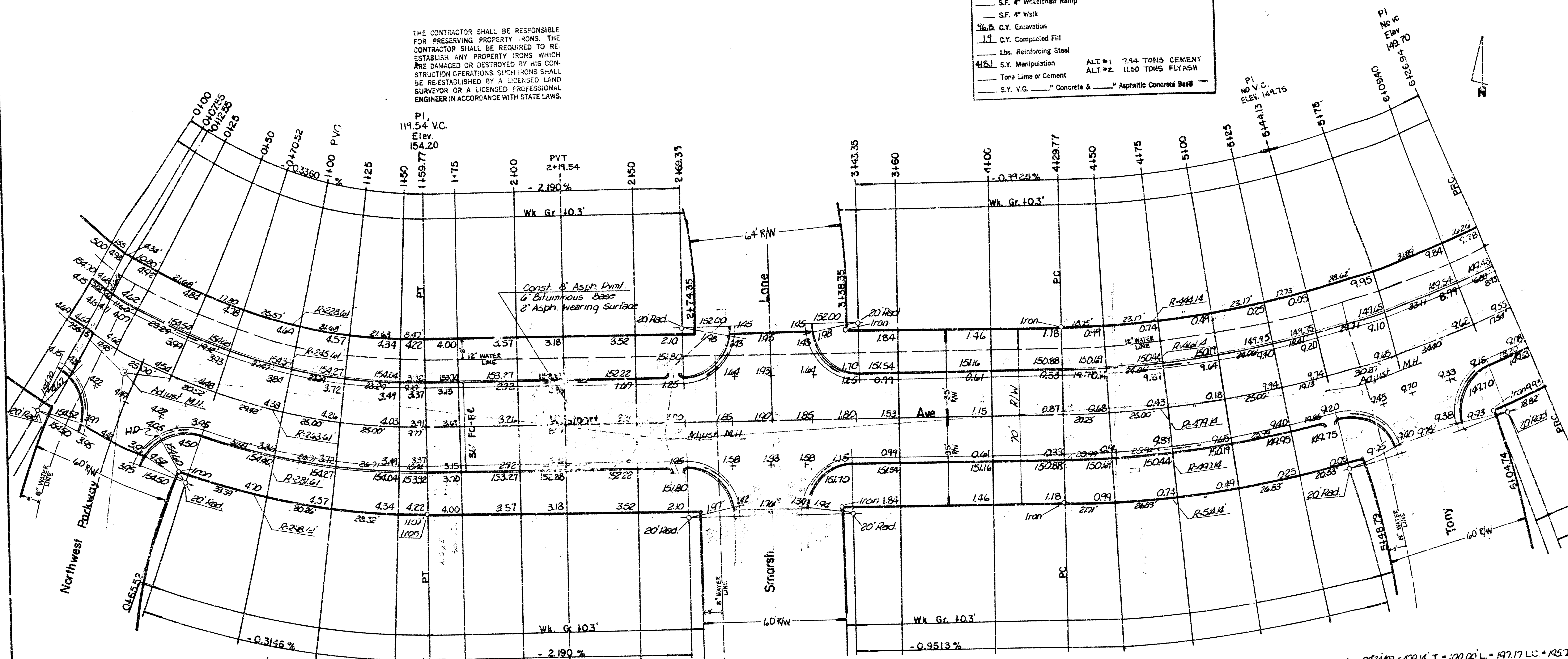
BM 142.807 Ridge Rd & 17th st No. City Std. Disc. 42'N. & 38.5'E of 1/4 sec. cor.
BM 149.82 R.R. spike SW face of p.pole on NW cor. of Westport & Ridge Rd.
BM 152.02 '□' S. side expansion on S. return of SW cor. Smarsh & Westport
BL is @ Westport Ave.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.

SMARSH INTERSECTION QUANTITIES

S.Y.	Concrete Pavement
354.3 S.Y.	Asphaltic Conc. Pavement (6" Bituminous Base)
22.6 S.Y.	Bituminous Base
93.6 L.F.	Combined Curb & Gutter
	L.F. Integral Curb
	S.F. 4" Wheelchair Ramp
	S.F. 4" Walk
16.2 C.Y.	Excavation
1.9 C.Y.	Compacted Fill
	Lbs. Reinforcing Steel
48.1 S.Y.	Manipulation
	Tons Lime or Cement
S.Y. V.G.	Concrete & Asphaltic Concrete Base

ALT #1 7.94 TONS CEMENT
ALT #2 11.50 TONS FLYASH



CURVE DATA BASED ON $\Delta = 34.434R = 263.61' T = 82.42' L = 159.77' LC = 157.34'$

STA.	ARC.	CHORD LENGTH	DEFLECTION	TOTAL DEFLECTION
0+00				0°00'00"
107.55	755'	4.81'	8.21'	0°44'14"
012.55	500'	4.51'	5.49'	0°32'36"
0125	1245'	11.22'	13.28'	1°21'11"
0150	2500'	22.53'	27.46'	2°43'01"
0170	2032'	18.49'	22.54'	2°13'48"
1100	2948'	26.56'	32.37'	3°12'13"
1125	2500'	22.53'	27.46'	2°43'01"
1150	2500'	22.53'	27.46'	2°43'01"
1159.77	9.77'	8.81'	10.73'	1°03'48"

Defl. $\frac{172.147}{11} = 15.721$

N.W. PARKWAY INTERSECTION QUANTITIES

S.Y.	Concrete Pavement
170.7 S.Y.	Asphaltic Conc. Pavement (6" Bituminous Base)
14.5 S.Y.	Bituminous Base
46.8 L.F.	Combined Curb & Gutter
	L.F. Integral Curb
	S.F. 4" Wheelchair Ramp
	S.F. 4" Walk
1 EA	Adjust Manhole
43.4 C.Y.	Excavation
0.8 C.Y.	Compacted Fill
	Lbs. Reinforcing Steel
107.6 S.Y.	Manipulation
	Tons Lime or Cement
S.Y. V.G.	Concrete & Asphaltic Concrete Base

ALT #1 3.10 TONS CEMENT
ALT #2 5.16 TONS FLYASH

Earthwork

Excavation	1501.9 CY	COMPACTED FILL	28.9 CY
110%	1502.0 CY	10%	2.9 CY
Total	1652.1 CY	TOTAL	31.8 CY

Manipulation 6489.0 SY

TONY INTERSECTION QUANTITIES

S.Y.	Concrete Pavement
176.4 S.Y.	Asphaltic Conc. Pavement (6" Bituminous Base)
14.5 S.Y.	Bituminous Base
46.8 L.F.	Combined Curb & Gutter
	L.F. Integral Curb
	S.F. 4" Wheelchair Ramp
	S.F. 4" Walk
44.3 C.Y.	Excavation
0.9 C.Y.	Compacted Fill
	Lbs. Reinforcing Steel
193.4 S.Y.	Manipulation
	Tons Lime or Cement
S.Y. V.G.	Concrete & Asphaltic Concrete Base

ALT #1 3.10 TONS CEMENT
ALT #2 5.32 TONS FLYASH

CURVE DATA BASED ON $\Delta = 28.344R = 47.14' T = 100.00' L = 197.17' LC = 195.78'$

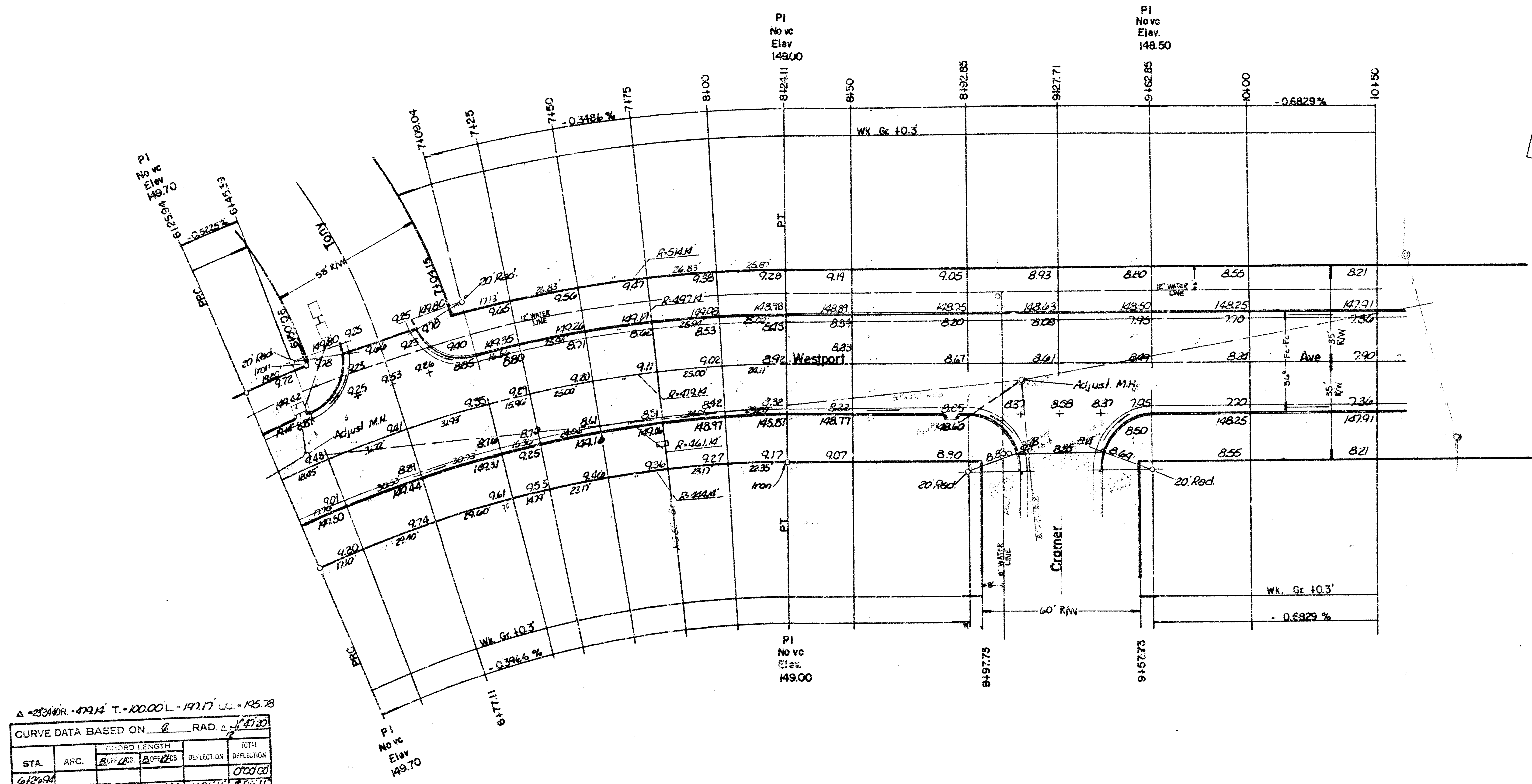
STA.	ARC.	CHORD LENGTH	DEFLECTION	TOTAL DEFLECTION
4+39.77				0°00'00"
4+150	2023'	19.13'	21.33'	1°12'34"
175	2500'	23.64'	26.36'	1°20'41"
5+100	2500'	23.64'	26.36'	1°20'41"
175	2500'	23.64'	26.36'	1°20'41"
175	2500'	23.64'	26.36'	1°20'41"
6+100	2500'	23.64'	26.36'	1°20'41"
6+126.94	17.54'	16.59'	18.49'	1°02'55"

Defl. $\frac{117.711}{11} = 10.701$

CONTRACTOR TO BID ONLY 1 SUBGRADE TREATMENT ALTERNATE.
ALTERNATE CHOSEN BY THE SUCCESSFUL BIDDER
SHALL BE USED FOR CONSTRUCTION ON THIS PROJECT.
NOTE: NO MORE THAN 23-20' DRIVES TO BE CONSTRUCTED ON THIS PROJECT.

472-76-245-80793-000-000-001

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$\Delta = 23.440R = 47.14$ T. = 100.00 L. = 197.17 LC. = 195.78

CURVE DATA BASED ON $\frac{1}{2}$ RAD. C. = 17.17

STA.	ARC.	CHORD LENGTH	DEFLECTION	TOTAL DEFLECTION
6126.94	13.45	19.45	17.45	17.45
6145.39	31.72	33.44	30.00	153.48
6177.11	31.93	33.66	30.20	154.33
7109.02	15.46	16.83	13.09	057.15
7125	25.00	26.36	23.64	129.41
7175				851.09
8100	25.00	26.36	23.64	129.41
121.11	24.11	25.42	22.80	126.30

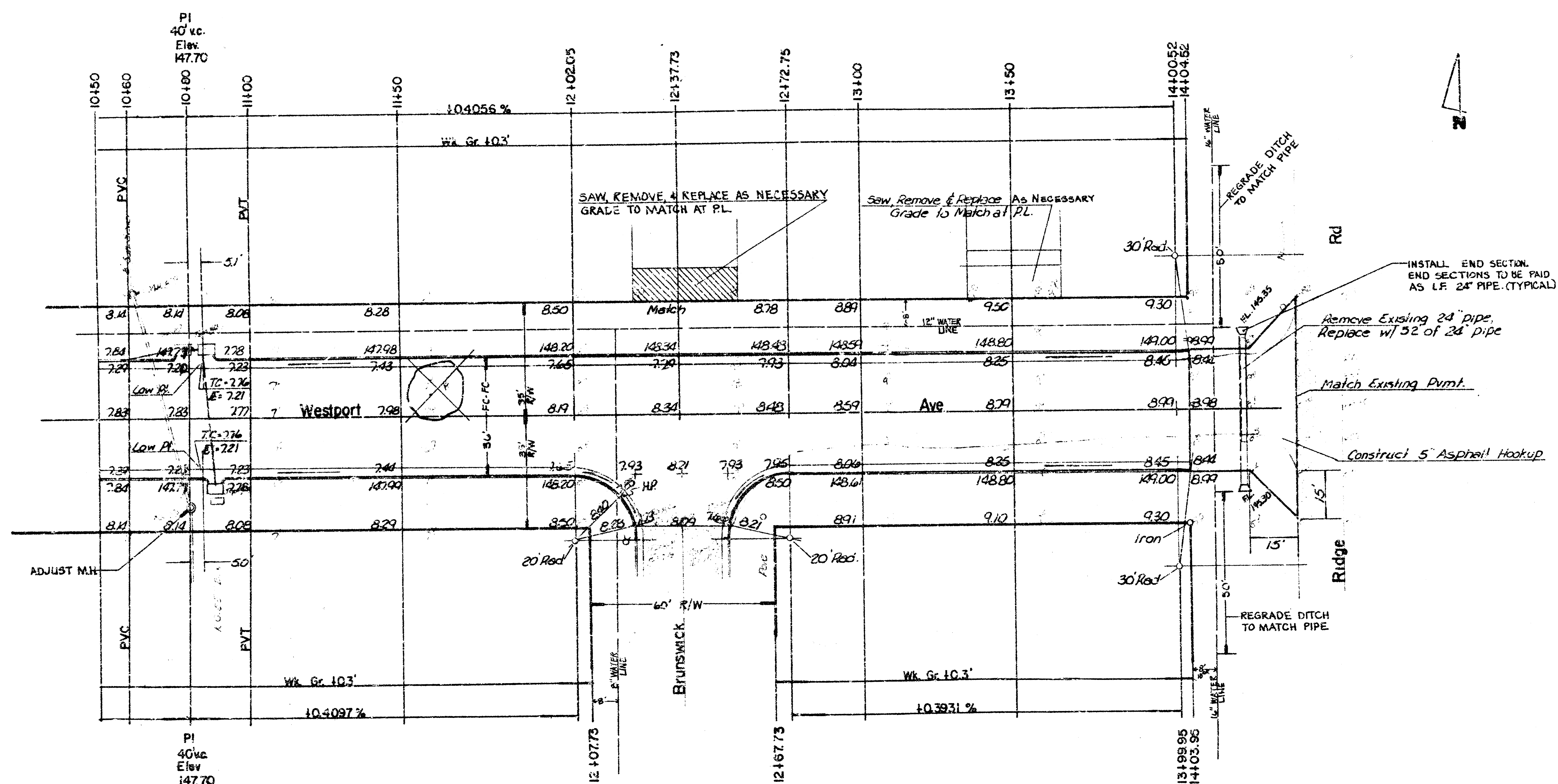
Defl. $\frac{1}{100} \div H = 3.587413669$

TONY INTERSECTION QUANTITIES

1.5	S.Y.	Concrete Pavement	
148.3	S.Y.	Asphaltic Conc. Pavement (6" Bituminous Base)	
14.3	S.Y.	Bituminous Base	
46.8	L.F.	Combined Curb & Gutter	
	L.F.	Integral Curb	
	S.F.	4" Wheelchair Ramp	
	S.F.	4" Walk	
43.0	C.Y.	Excavation	
0.8	C.Y.	Compacted Fill	
	Lbs.	Reinforcing Steel	
185.5	S.Y.	Manipulation	ALT. #1 3.53 TONS CEMENT
	Tons	Line or Cement	ALT. #2 5.11 TONS FLY ASH
	S.Y.	V.G.	Concrete & Asphalt Concrete Base

CRAMER INTERSECTION QUANTITIES

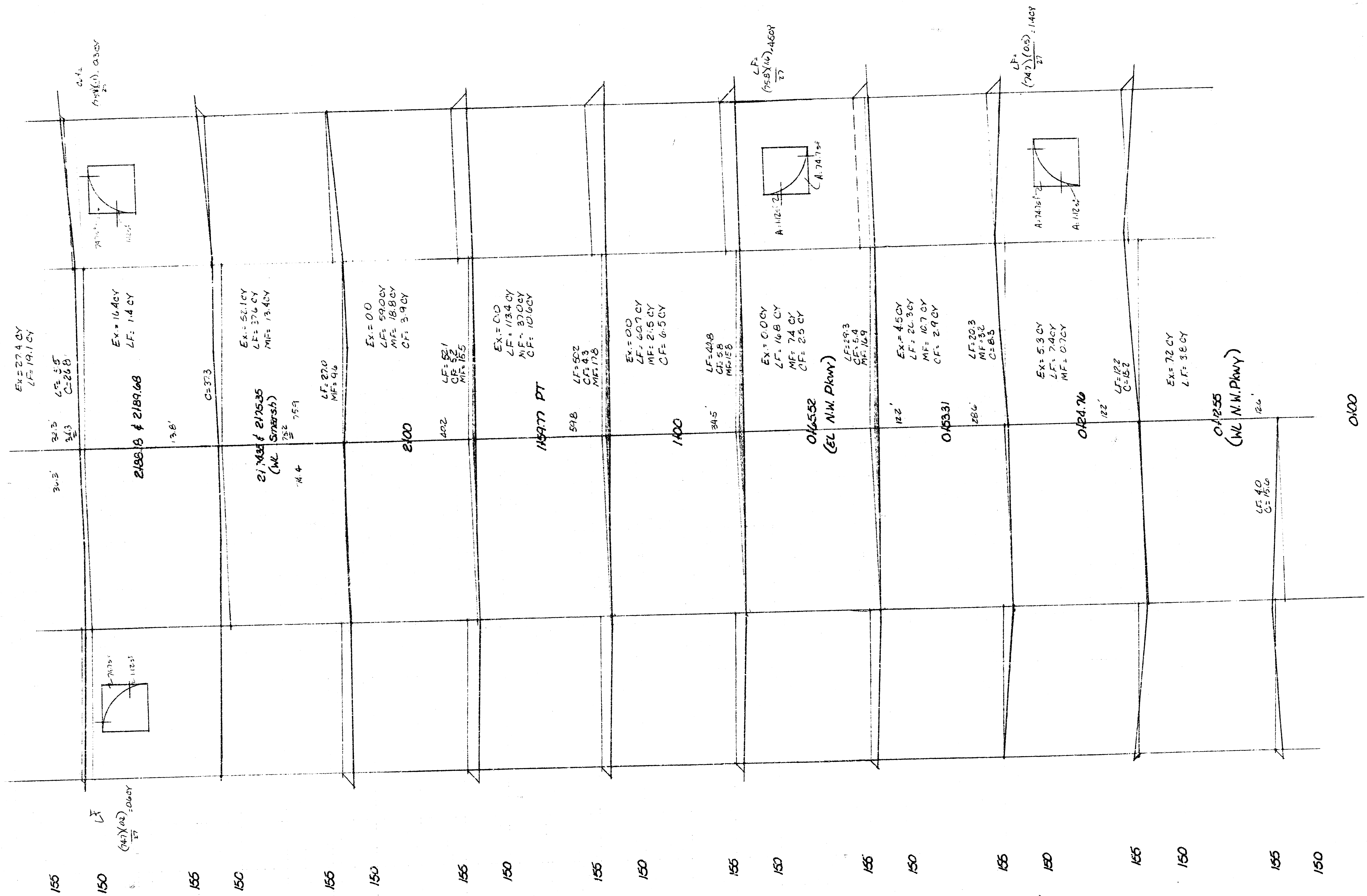
1.5	S.Y.	Concrete Pavement	
144.4	S.Y.	Asphaltic Conc. Pavement (6" Bituminous Base)	
14.3	S.Y.	Bituminous Base	
46.8	L.F.	Combined Curb & Gutter	
	L.F.	Integral Curb	
	S.F.	4" Wheelchair Ramp	
1	E.A.	Adjust. Manhole	
44.6	C.Y.	Excavation	
0.9	C.Y.	Compacted Fill	
	Lbs.	Reinforcing Steel	
204.3	S.Y.	Manipulation	ALT. #1 3.82 TONS CEMENT
	Tons	Line or Cement	ALT. #2 5.54 TONS FLY ASH
	S.Y.	V.G.	Concrete & Asphalt Concrete Base



BRUNSWICK
INTERSECTION QUANTITIES

184.4	S.Y.	Concrete Pavement
14.3	S.Y.	Asphaltic Conc. Pavement (1.5" Bituminous Base)
14.3	S.Y.	Bituminous Base
46.8	LF.	Combined Curb & Gutter
	LF.	Integral Curb
	S.F.	Wheelchair Ramp
	S.F.	"
46.8	C.Y.	Excavation
0.9	C.Y.	Compacted Fill
	Lbs.	Reinforcing Steel
20.3	S.Y.	Manipulation
	Tons	Line of Cement
	S.Y.	Val.

ALT. #1 3.82 TONS CEMENT
ALT. #2 5.54 TONS FLYASH
Concrete & Asphaltic Concrete Base



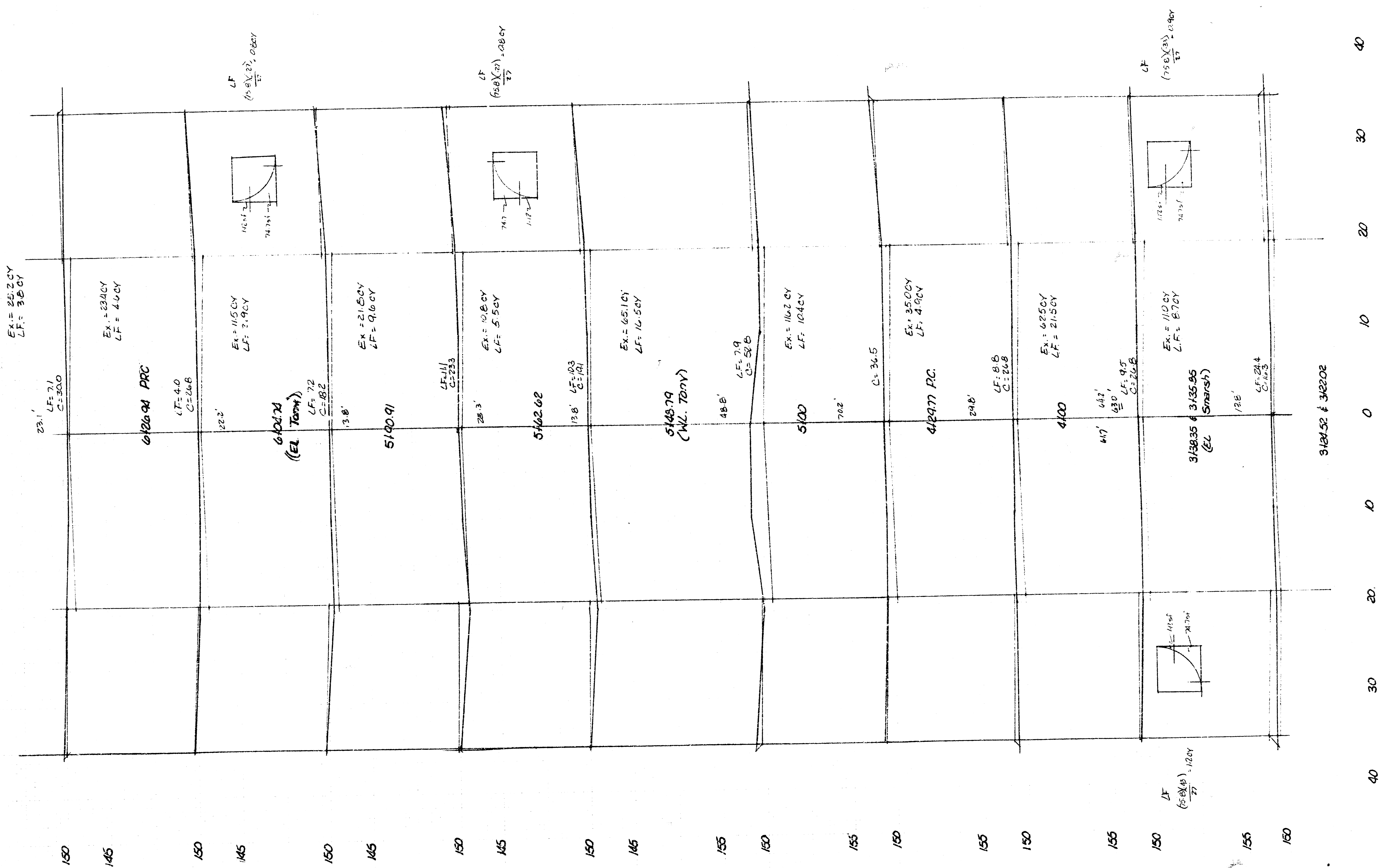
THIS PAGE
EXC. 115.20
COMB. FILL 26.40
LOOSE FILL 35.14

Earthwork (Total)
Excavation 150.4 CY
COMB. FILL 26.4 CY

Earthwork (This Sheet)

Exc. 382.5 cy
Fill 404

%



Earthwork (This Sheet)
Exc. 447.4 CY
Total Fill 135.7

