

STREET IMPROVEMENTS

WESTWOOD HEIGHTS SECOND ADDITION

19th STREET-NORTHWEST PARKWAY— FROM THE EAST LINE OF WOODCHUCK TO THE WEST LINE OF NORTHWEST PARKWAY COURT AND THE EASTERLY CORNER OF LOT 23, BLOCK 13, WESTWOOD HEIGHTS 2nd. ADDN.
BELLA VISTA — FROM THE EAST LINE OF WOODCHUCK TO THE WEST LINE OF NORTHWEST PARKWAY ; and

BELLA VISTA COURT — FROM THE SOUTH LINE OF BELLA VISTA TO, AND INCLUDING, CUL-DE-SAC SERVING LOTS 26 THROUGH 33, BLOCK 13, WESTWOOD HEIGHTS 2nd ADDN.

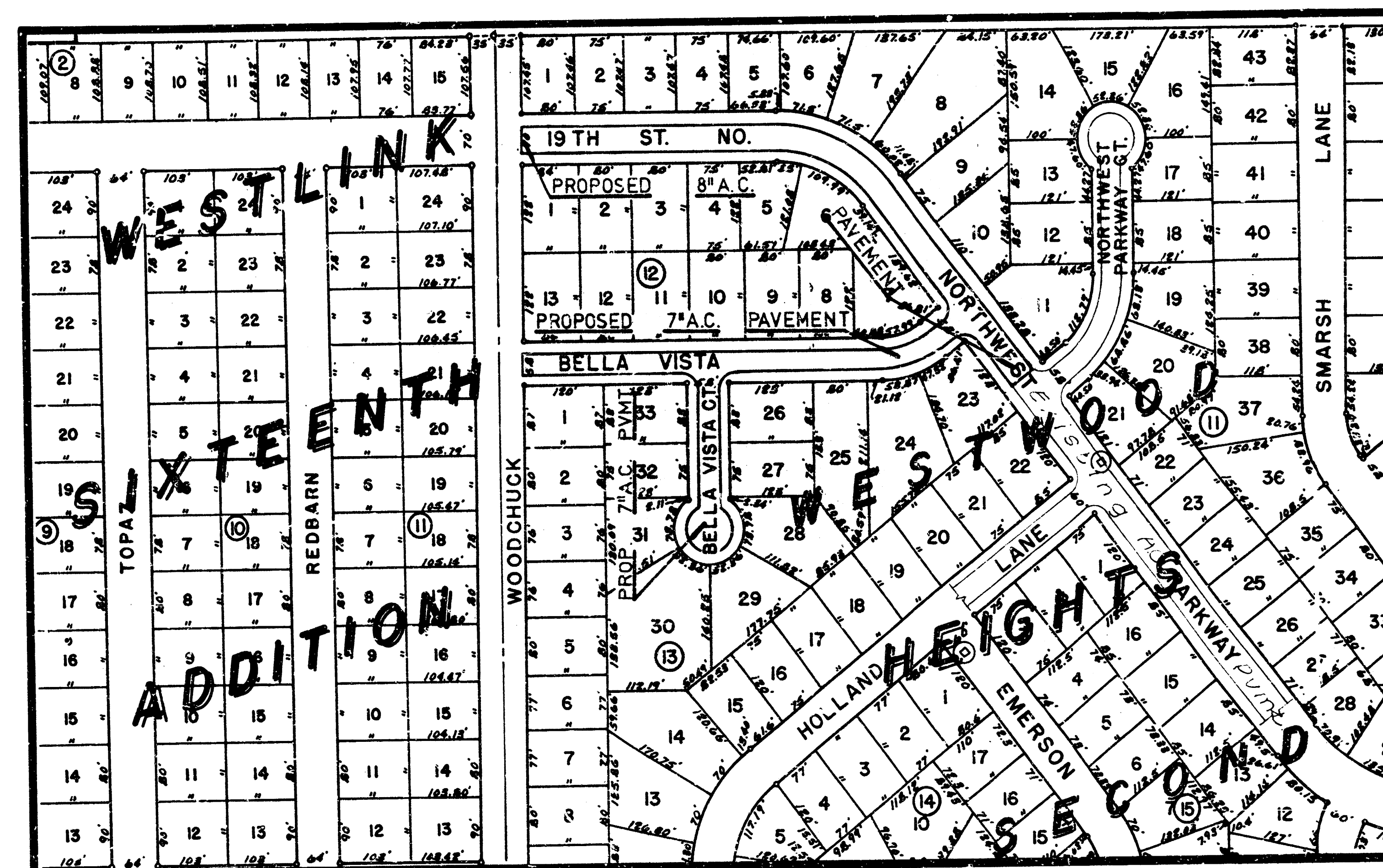
GENERAL NOTES

- Utility service lines, poles, valve boxes, meters, and structures are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
- This project includes a certain amount of roll type curb construction. Roll Curbs shall be depressed through all driveway openings when such drives are constructed as a part of the project.
- No more than 10 drives 18 feet in width, or equivalent combinations thereof, are to be constructed with this project.
- Widened gutter section of combined curb and gutter at intersections will not be paid for directly, and this cost shall be considered as subsidiary to the other contract pay items of work.
- Limit of earthwork shall match existing ground elevations at the right-of-way line unless otherwise noted on the plans with a new finished grade elevation. When a new finished grade elevation is shown, the earthwork shall extend one foot beyond the right-of-way line and then sloped up or down using permissible slopes to match the existing ground surface.
- The Contractor shall be responsible for preserving property irons. The Contractor will 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 in accordance with state laws.
- All excess excavated material is to be dumped and spread on property abutting the project. The Contractor shall contact Jim Loyd at 722-1171 to determine the exact locations.

472-76-245-81707-000-000-001

CITY of WICHITA, KANSAS

MICHAEL E. LINDEBAK
CITY ENGINEER



INDEX of SHEETS

Title Sheet	1
7' A.C. Pavement Typical	2
8' A.C. Pavement Typical	3
Plan Sheets	4-6
Earthwork X Sections	9-13

BENCHMARKS

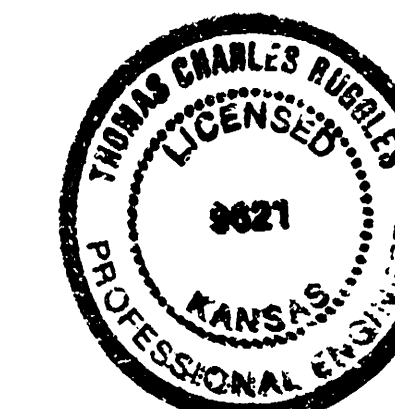
"□" cut in top of curb, 19' northwesterly of southwesterly corner of Lot 21, Block 11, Westwood Heights 2nd Addition; elev. 155.47.

R.R. spike in lone tree (northeasterly side) 193' south and 47' west of N.E. Corner of Lot 15, Block 2, Westlink Village 16th Addition; elev. 157.75.

BENEFIT DISTRICT

WESTWOOD HEIGHTS 2ND ADDITION

Lots 1 through 15 inclusive, Block 11
 Lots 1 through 13 inclusive, Block 12
 Lots 1 through 5 inclusive and Lots 23 through 33 inclusive, Block 13

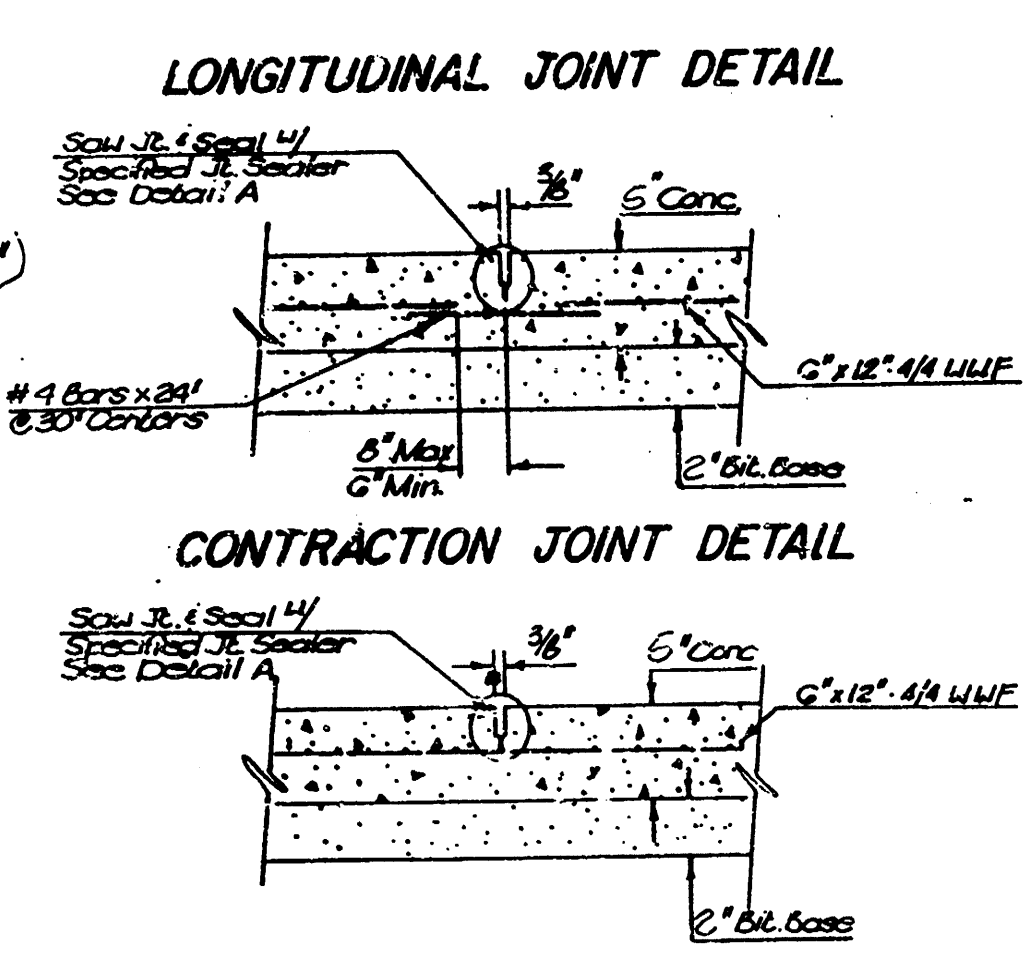
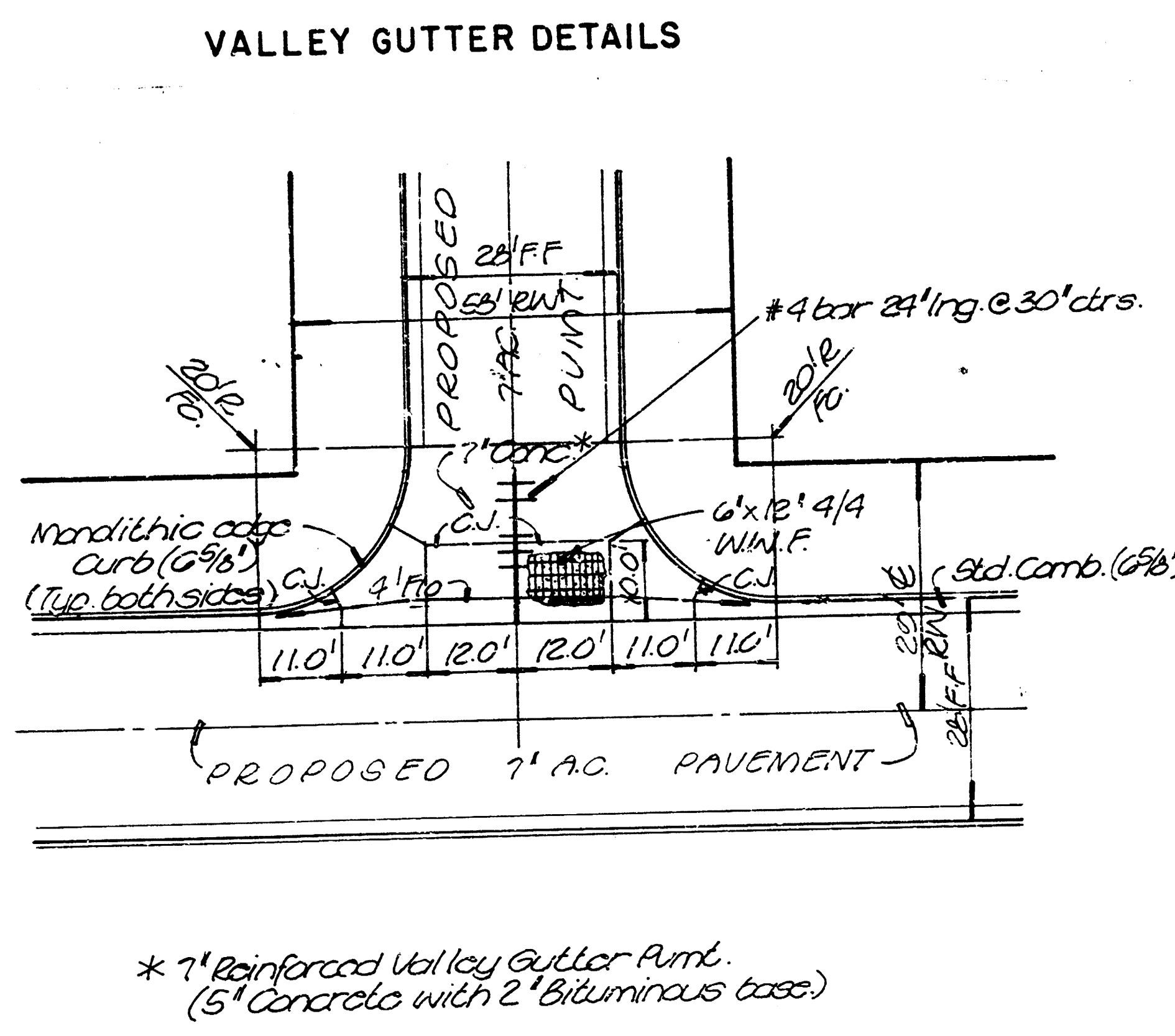
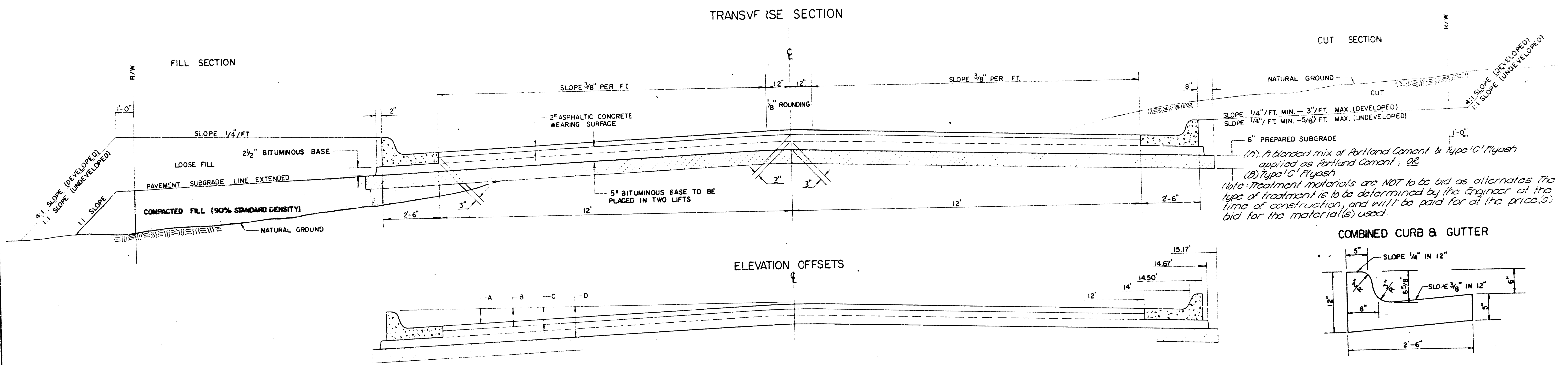


TITLE SHEET

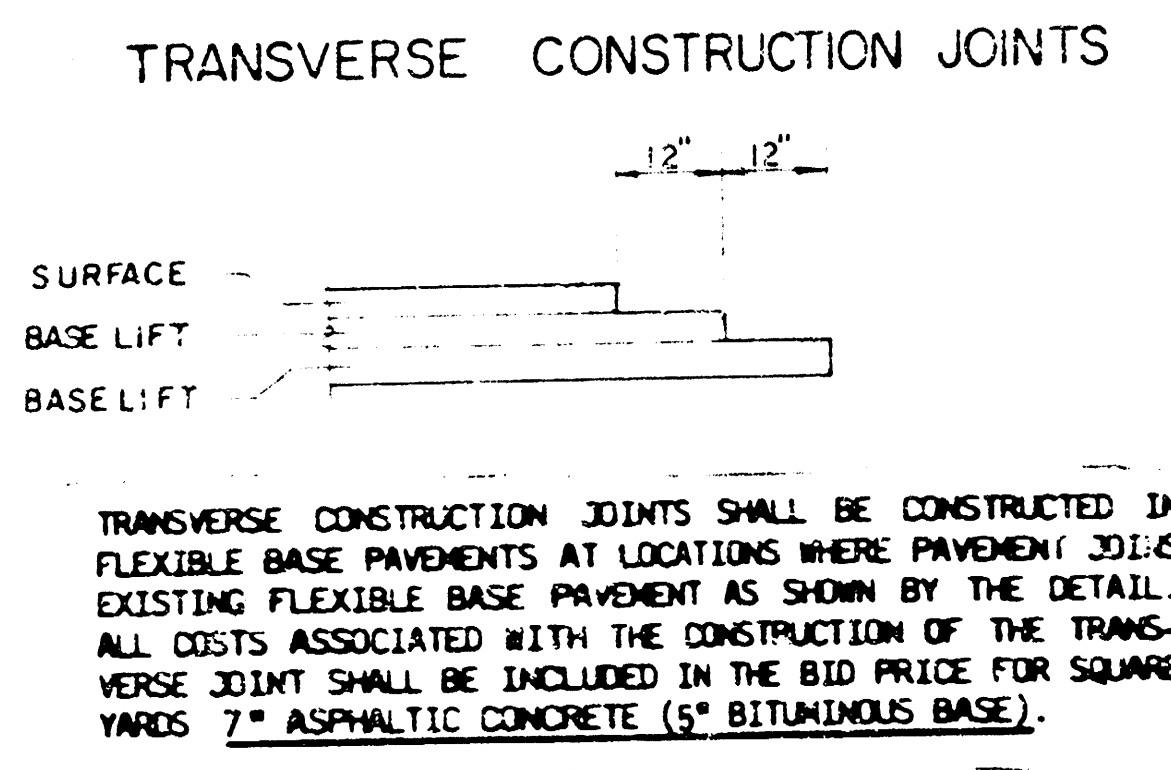
BAUGHMAN COMPANY, P.A.			
SURVEYING & ENGINEERING			
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211			
Design: <i>Buggles</i>	Drawn: <i>Scot</i>	Approved: <i>[Signature]</i>	Date: 22 Feb 08
Project Number:		Scale: 1"=20'	Sheet: 1 of 13

Westwood Heights Second Addn.
 Pavement Improvements
 472-76-245-81707-000-000-001

TYPICAL 29' PAVEMENT DETAILS



- GENERAL NOTES**
1. THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAVED AS SHOWN BY THE DETAIL.
 2. THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE PAVED AS SHOWN BY THE DETAIL.
 3. A THICK COAT OF EMULSIFIED ASPHALT (EMULSION) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.
 4. BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACES SHALL BE PAVED WITH A LAYDOWN MACHINE PAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.
 5. CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFTS AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.
 6. CONTRACTOR TO BID ONLY ONE SUBGRADE TREATMENT ALTERNATE WHEN ALTERNATES ARE PROVIDED IN THE PROPOSAL AND CONTRACT. THE ALTERNATE CHOSEN BY THE SUCCESSFUL BIDDER SHALL BE USED IN CONSTRUCTING THIS PROJECT.



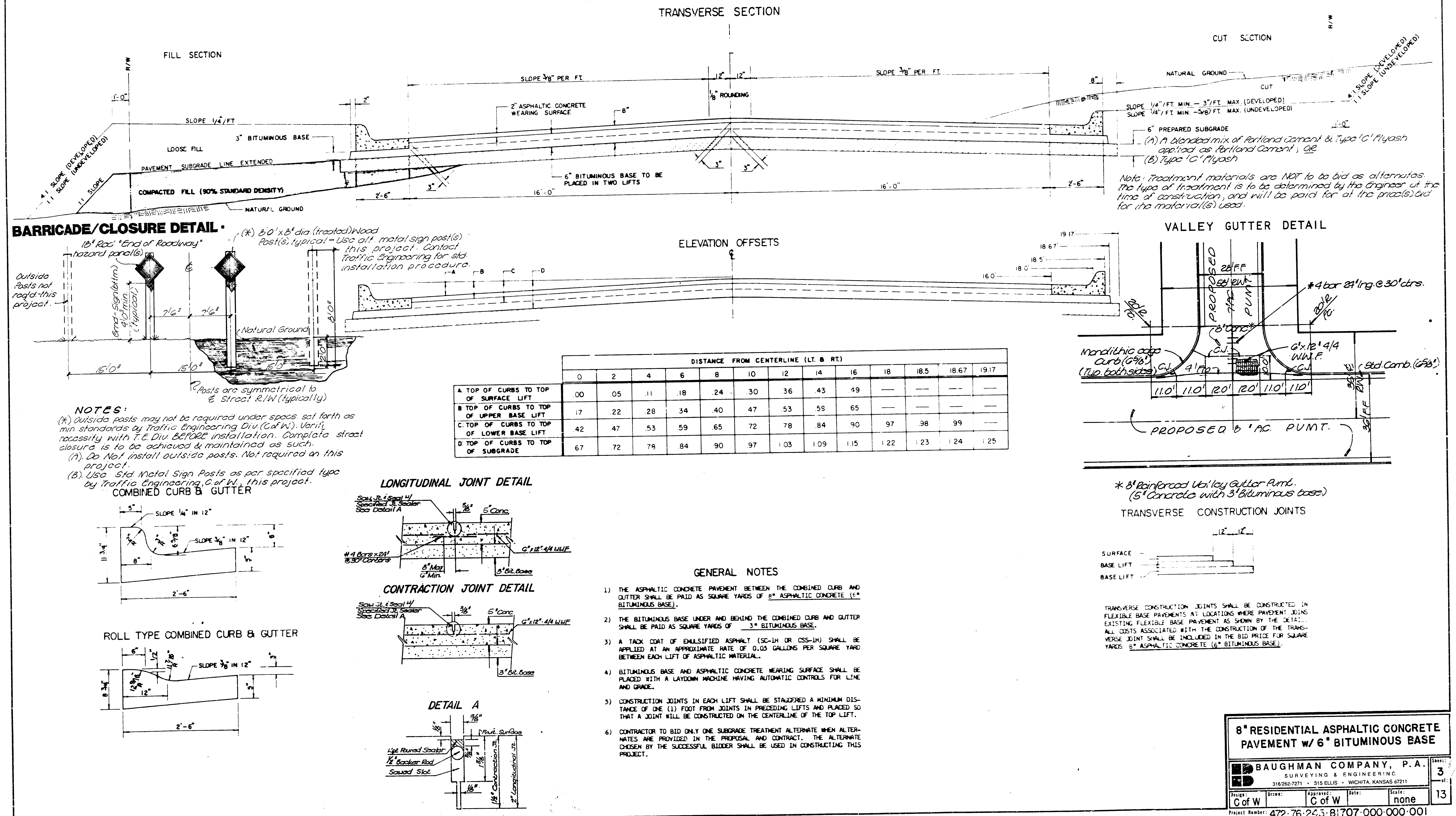
7" RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT w/ 5" BITUMINOUS BASE

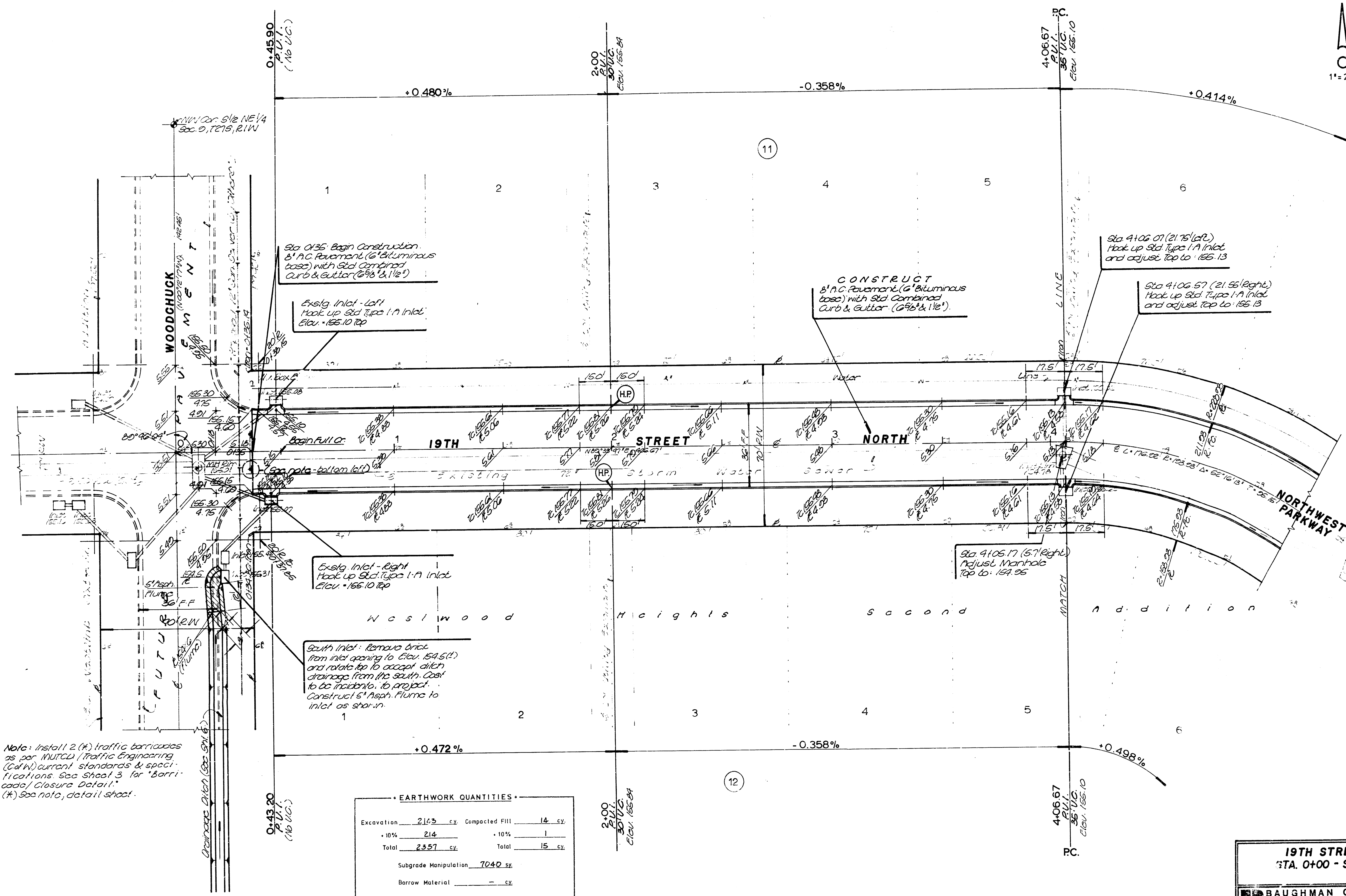
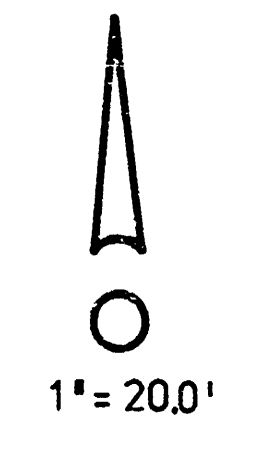
BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
316262-7211 • 315 ELLIS • WICHITA, KANSAS 67211

Project Number: 472-76-245-81707-000-001

Sheet: 2 of 13

TYPICAL 37' PAVEMENT DETAILS





Note: Install 2 (*) traffic barricades as per MUTCD Traffic Engineering (CAIN) current standards & specifications. See Sheet 3 for 'Barricade/Closure Detail'. (*) See note, detail sheet.

EARTHWORK QUANTITIES

Excavation <u>2163</u> cy.	Compacted Fill <u>14</u> cy.
+ 10% <u>214</u>	+ 10% <u>1</u>
Total <u>2357</u> cy.	Total <u>15</u> cy.
Subgrade Manipulation <u>7040</u> sq.	
Borrow Material _____ cy.	

19TH STREET NORTH
STA. 0+00 - STA. 4+06.67

BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
315/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

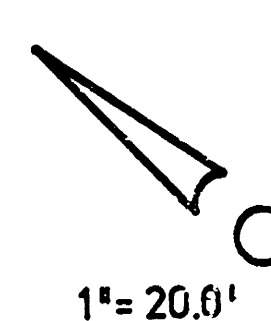
Design: [Signature] Drawn: [Signature] Approved: [Signature] Date: 3/27/07 Scale: 1"=20'

Project Number: 472-76-245-81707-000-000-001

4

13

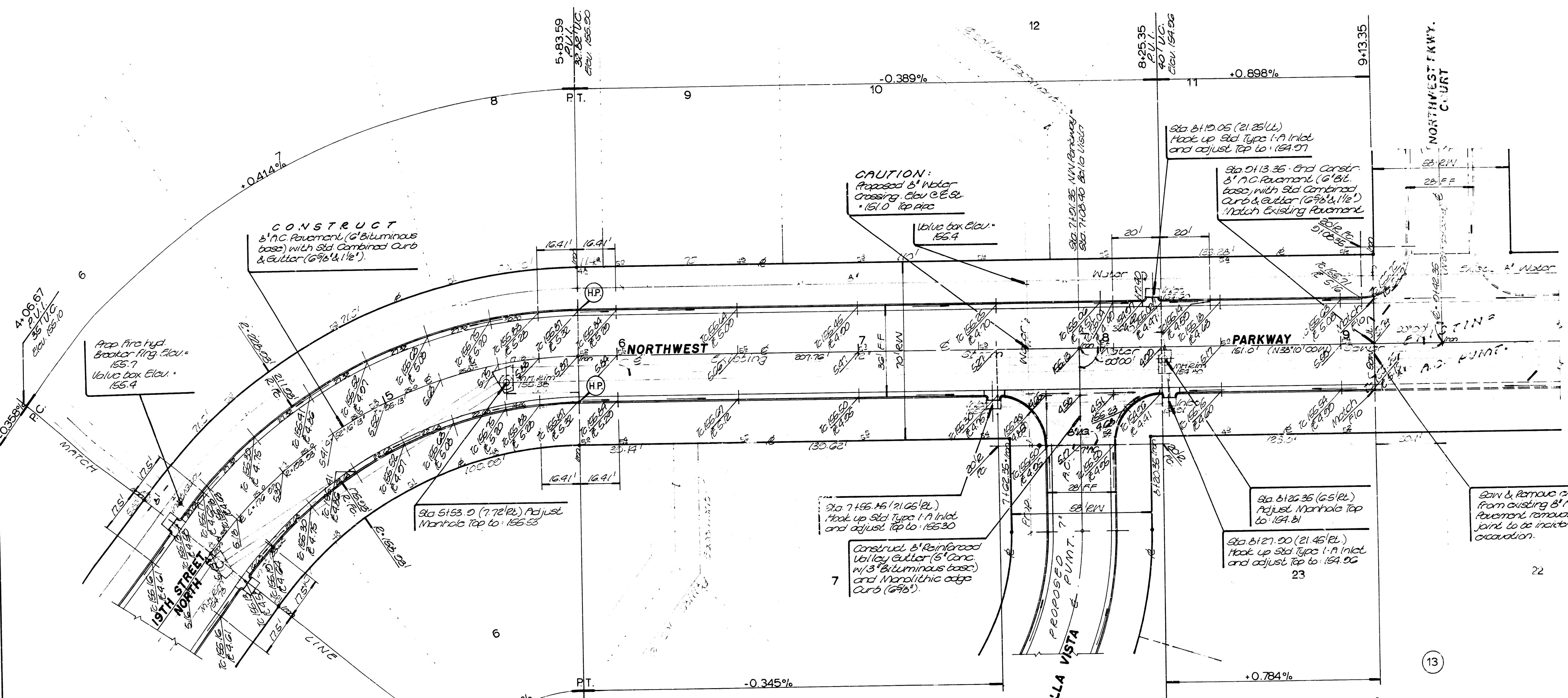
Westwood Heights Second Addition
Pavement Improvements
472-76-245-81707-000-000-001



11

12

13



CURVE DATA BASED ON CENTERLINE DATA

R = 103.63' Δ = 52°16'13\"/>

INTERSECTION QUANTITIES

120.9	SY	Concrete Pavement
62.5	SY	Asphaltic Conc. Pavement (6\"/>
225.4	SY	Excavation
22.9	SY	Valley Gtr.

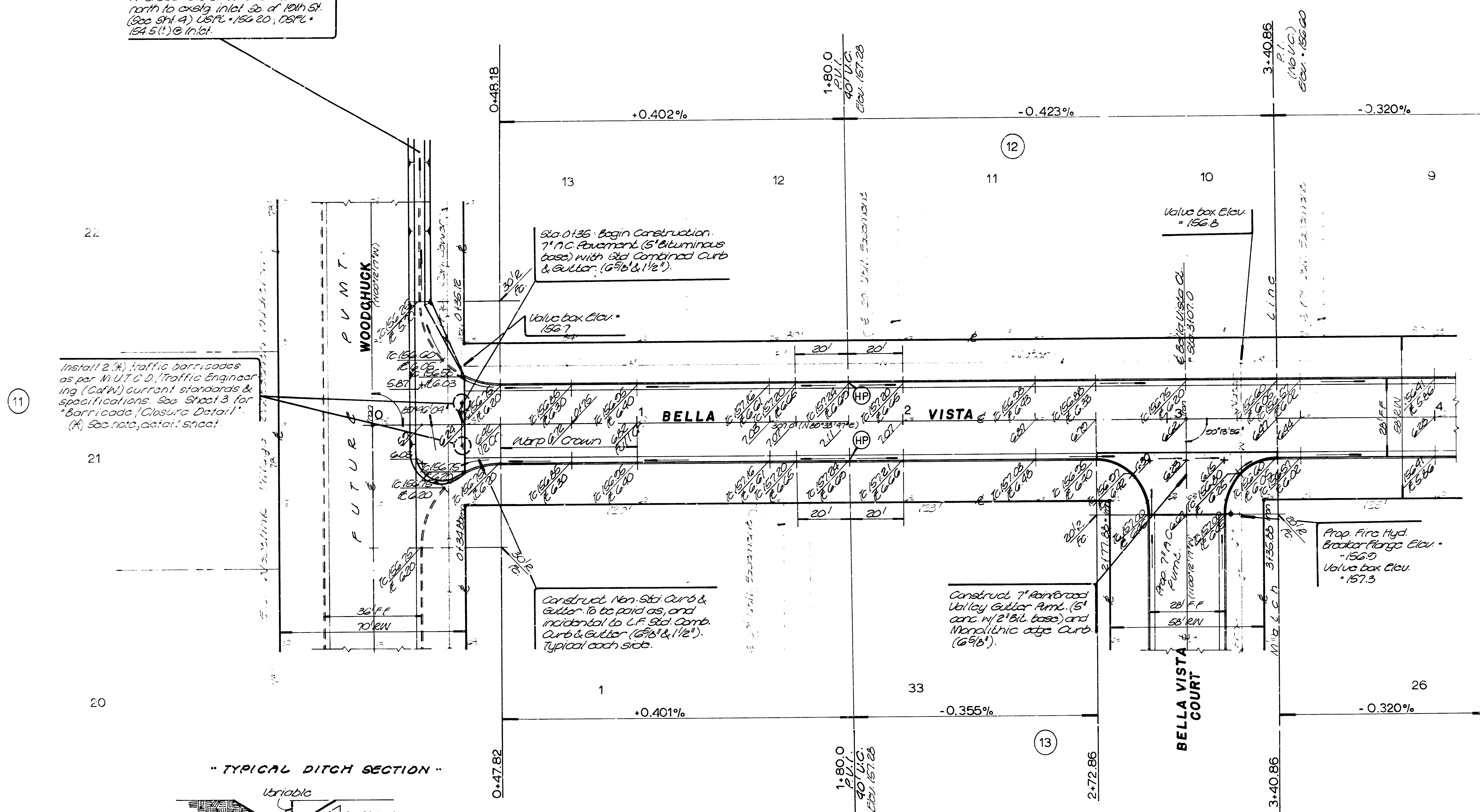
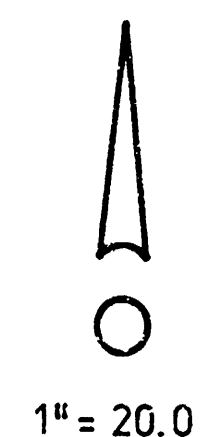
NORTHWEST PARKWAY
STA. 4+06.67 - STA. 9+13.35

BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
316-282-7271 • 315 ELLIS • WICHITA, KANSAS 67211

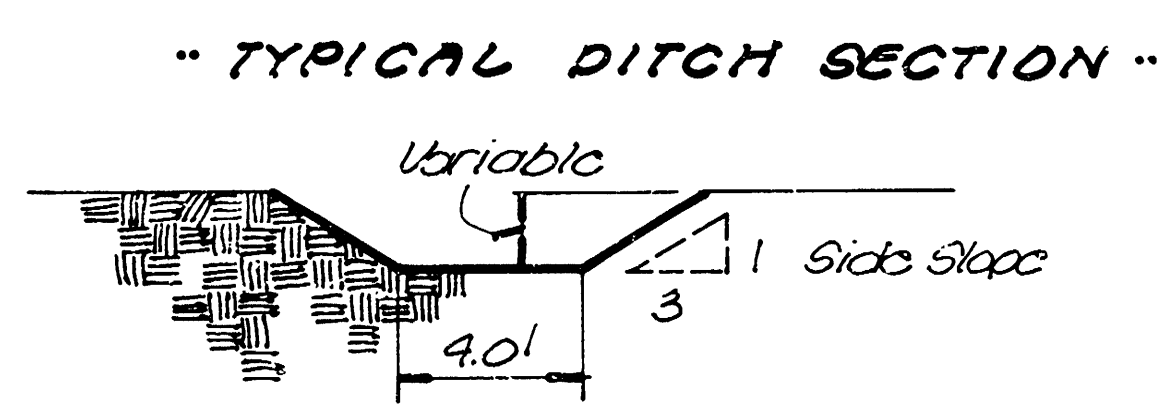
Project Number: 472-76-245-81707-000-000-001

Westwood Heights Second Addn.
Pavement Improvements
472-76-245-81707-000-000-001

* Grade 215 L' of ditch to drain north to existing inlet 30' of 10th St. (See SH 4) elev. +154.20, 154.72, 154.5 (1.1) in lot.



Install 2 (4) traffic barricades as per M.U.T.C.D. Traffic Engineering (Caltrans) current standards & specifications. See Sheet 3 for "Barricade/Closure Detail".
(*) See note, detail sheet.



Sta. 0+135: Begin construction. 7" A.C. Pavement (5" Bituminous base) with 3'6" combined curb & gutter (6'6" & 1 1/2').

Construct Non-Std Curb & gutter to go paid as, and incidental to C.F. Std Comb. Curb & gutter (6'6" & 1 1/2'). Typical each side.

Construct 7" Reinforced Valley Gutter Panel (5' conc w/ 2" bit. base) and Monolithic edge curb (6'6").

Valve box Elev. = 156.8

Prop. Fire Hyd. Breaker (Range Elev. = 156.0) Valve box Elev. = 157.3

INTERSECTION QUANTITIES	
22.7	Concrete Pavement
22.7	Asphaltic Conc. Pavement (5" Bituminous Base)
22.7	Bituminous Base
66.6	Combined Curb & Gutter
66.6	Monolithic Edge Curb
22.7	4" Wheelchair Ramp
22.7	4" Walk
22.7	Excavation
22.7	Compacted Fill
22.7	Reinforcing Steel
22.7	Manipulation
22.7	Tons Lime or Cement
22.7	Valley Gtr. 5" Concrete & 2" Asphaltic Conc. Base

BELLA VISTA
STA. 0+00 - STA. 3+40.86

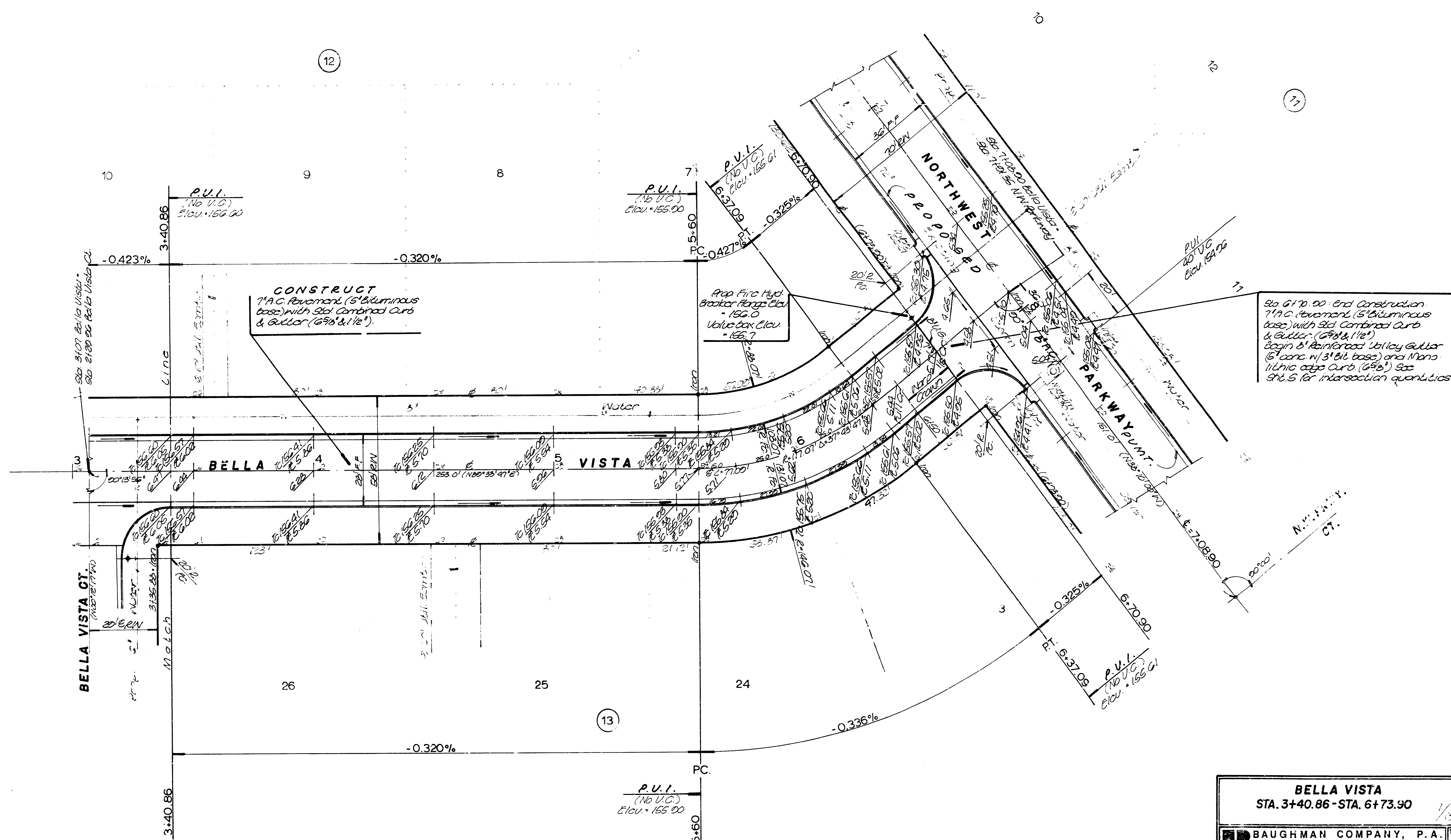
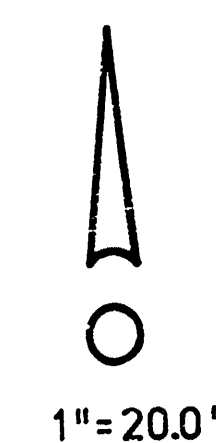
BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
316262-7271 • 315 ELLIS • WICHITA, KANSAS 67211
Designed: *Ruggles* Drawn: *Salin* Approved: *Salin* Date: *Sept. 87* Scale: *1" = 20'*

Project Number: 472-76-245-81707000-000-001

PLAN	DATE: 7/15/87
BY: Fryman	
CHECKED: [Signature]	
APPROVED: [Signature]	

CURVE DATA BASED ON CENTERLINE DATA

R=117.07', Δ=37°43'47", L=77.00', Chd=75.71', Tan=40.00', Del/ft.=14.68273, min.					
		CHORD LENGTHS		Deflection Angle	
Station	Arc Length	8' Left/face	8' Right/face	Angle	Total Deflection Angle
5+00				00°00'00"	00°00'00"
5+15	15.0	12.17	17.81	03°40'18"	03°40'18"
5+30	30.0	20.36	29.64	06°07'05"	06°07'10"
5+45	15.0	20.36	29.64	06°07'04"	15°54'23"
5+60	15.0	9.61	19.39	02°57'31"	18°51'54"



PLAN	DATE: 7-15-87
DESIGNED BY: E. J. F. / E. J. F.	
CHECKED BY: E. J. F. / E. J. F.	
APPROVED BY: E. J. F. / E. J. F.	

BELLA VISTA
STA. 3+40.86 - STA. 6+73.90

BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

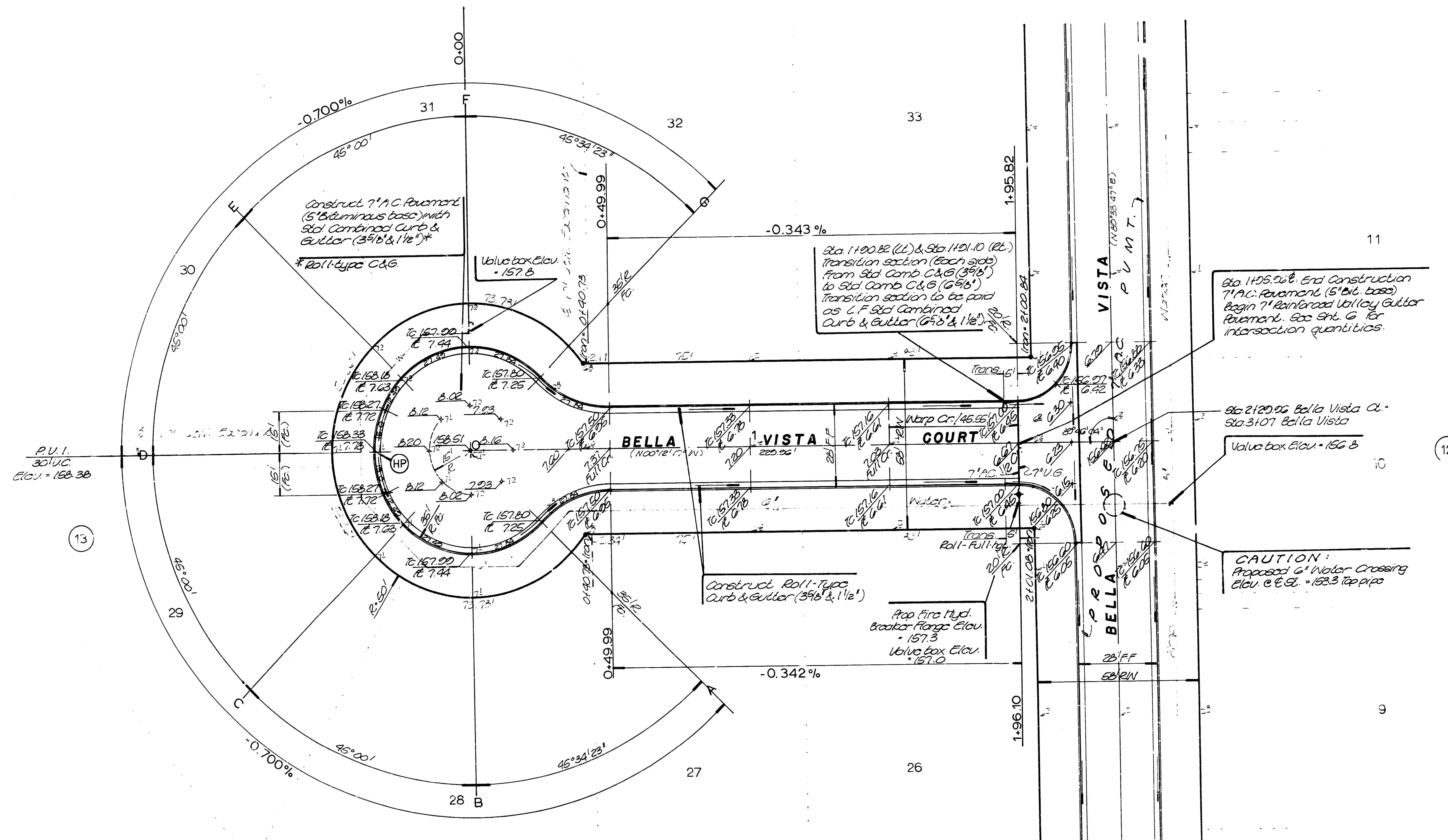
Design: *Ruggles* Drawn: *Schulz* Approved: *Schulz* Date: *6-21-87* Scale: *1"=20'*

Project Number: **472-76-245-81707-000-000-001**

Sheet: **7**
of: **13**

Westwood Heights Second Addn.
Westwood Heights
472-76-245-81707-000-000-001

1" = 20.0'



NOTE
Roll-Type Curb & Gutter to be constructed on Bella Vista Court on cut de sac and through Sta. 1+20.66 (Left) and Sta. 1+20.68 (Right). Elevations shown are for 30" Combined Curb & Gutter (Full right-of-way).

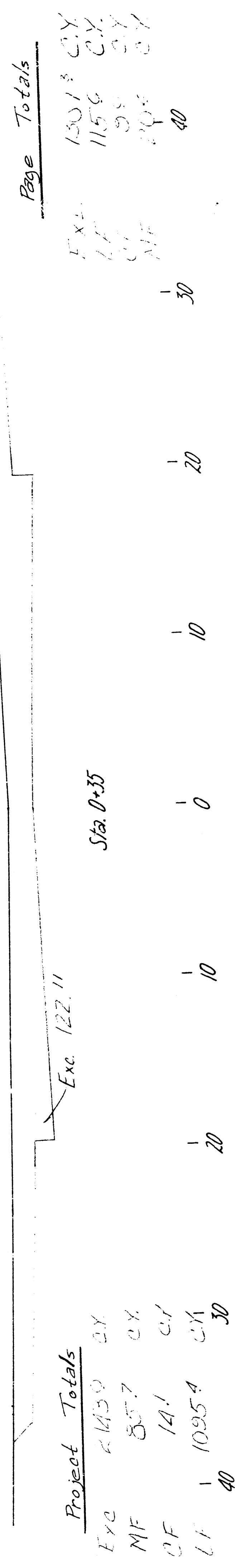
BELLA VISTA COURT
STA. 0+00 - STA. 1+95.86

BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
316.262.7271 • 315 ELLIS • WICHITA, KANSAS 67211
Design: *Elgias* Drawn: *Spolr* Approved: *Spolr* Date: *Sept. 17* Scale: *1" = 20'*

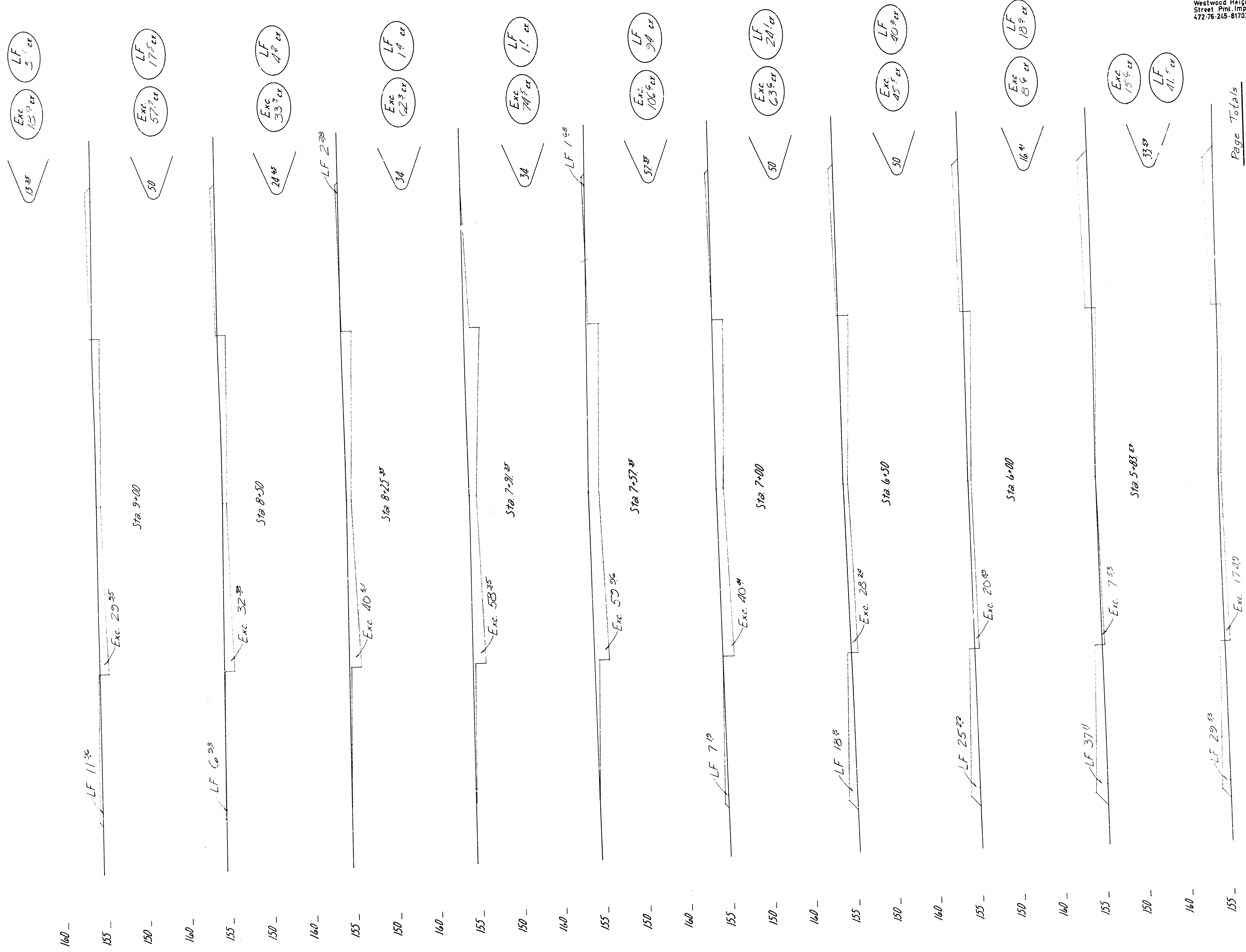
472-76-245-81707-000-000-001

PLAN	DATE: 7/15/87
NOTES	NO. 10
DESIGNED BY	ELG
DRAWN BY	SPOLR
CHECKED BY	SPOLR
APPROVED BY	SPOLR

Westwood Highway
Improvements
472-76-245-81707-000-000-001



9
13



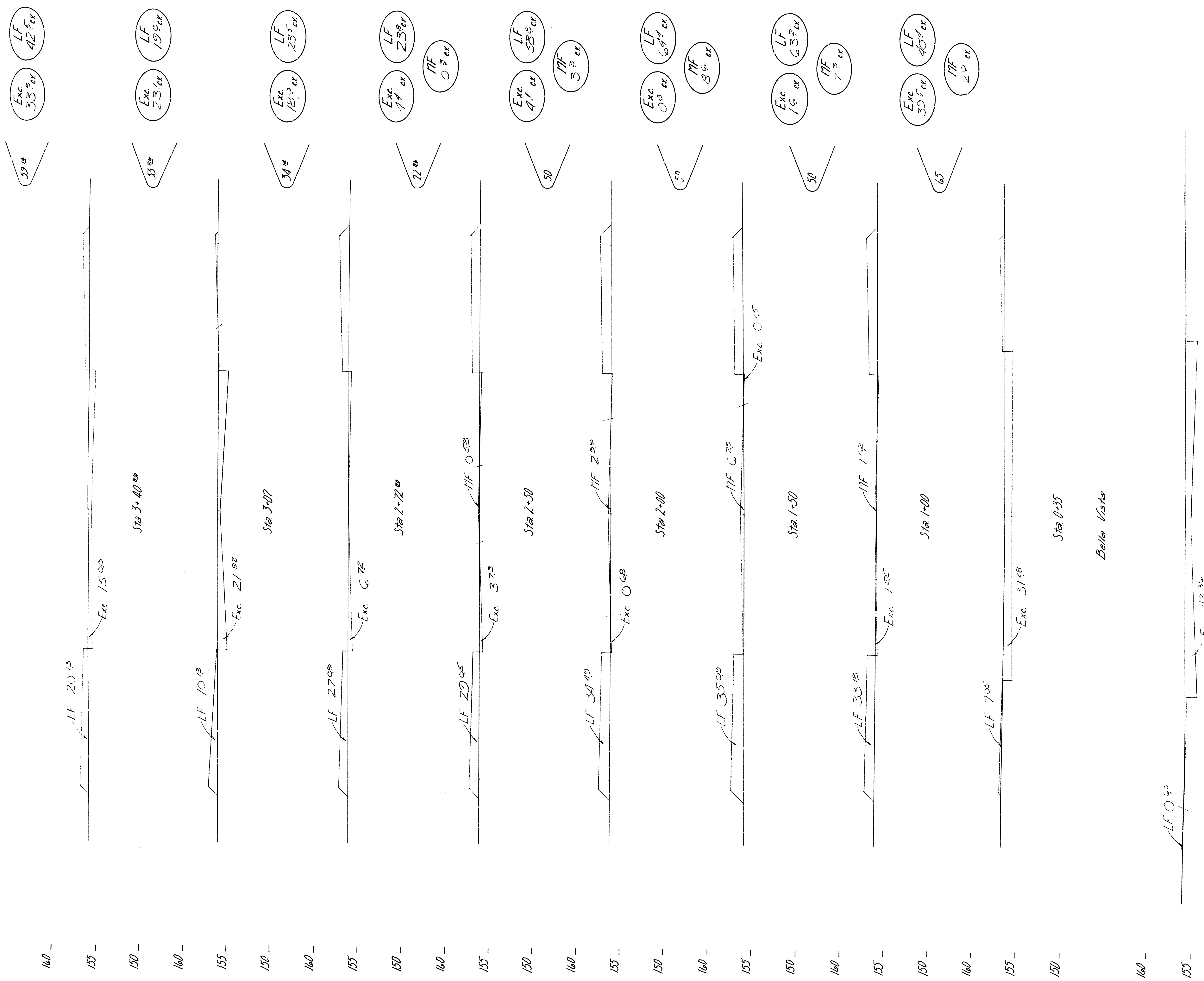
Westwood Heights Second Add.
Street Pmt. Improvements
472-76-245-81707-000-000-001

Page Totals	
Exc.	485.1
LF	162.9

Sta 5+50

1	40	1	30	1	20	1	10	1	0	1	30	1	40
---	----	---	----	---	----	---	----	---	---	---	----	---	----

19th Street North - Northwest Parkway



Westwood Heights Second Addn.
Street Pmt. Improvements
472-76 245-81707-000-000-001

Page Totals	
Exc.	165' 4"
MF	21' 5"
LF	21' 5"

Sta 3+43.00
Northwest Parkway

Station	Exc.	MF	LF
1+00	1	1	1
1+10	1	1	1
1+20	1	1	1
1+30	1	1	1
1+40	1	1	1

Exc. 10^3 A = 0.15

$$= \frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} e^{-t^2} dt = 1$$

LF 1612 4:107

50!

2391

LF 185 cr
Exc. 51.3 cr

Exc. 2/29

LF 23.9 cr
Exc. 25.4 cr

3051

LF 25th cr
Exc 22nd cr

Exc-51

Exc. 388 cr

Copyright © 2006 John Wiley & Sons, Ltd. *J. Mass Spectrom.* 41, 1033–1041 (2006)
DOI: 10.1002/jms.1070

Exc. 325 cr

Feb 11 30

Exc. 20th cr

265/202

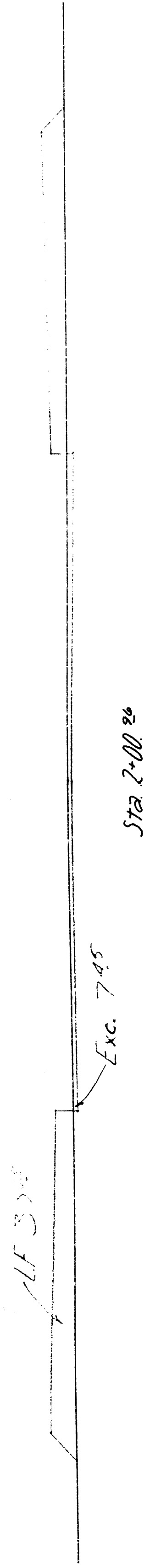
Page Totals

- 40

Westwood Heights Second Addn.
Street Pmt. Improvements
472-76-245-81707-000-000-001

160 -

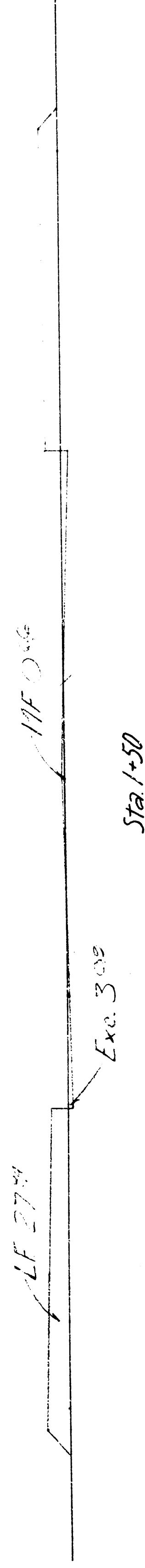
155 -



Exc 10.0' cr
LF 55' cr
MF 0.4' cr

160 -

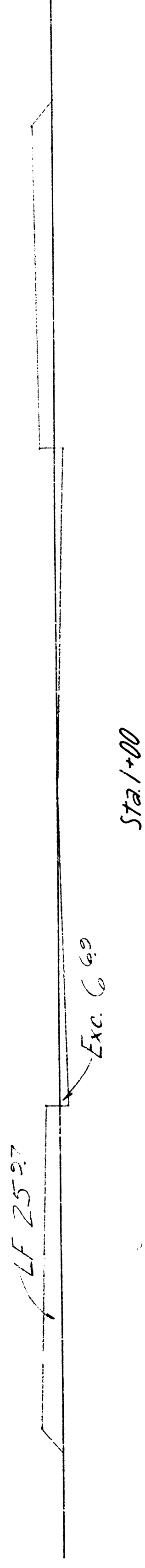
155 -



Exc 9.1' cr
LF 49.3' cr
MF 0.5' cr

160 -

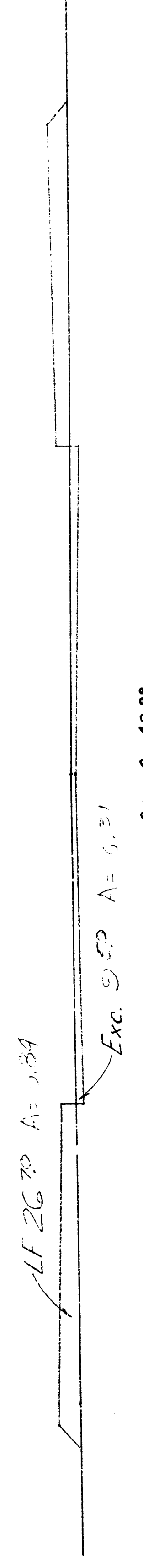
155 -



Exc 15.2' cr
LF 43.8' cr

160 -

155 -



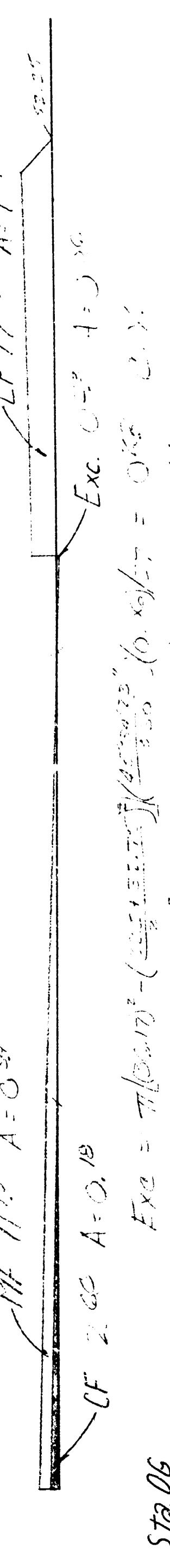
Sta 0+82.20



Exc 11.8' A = 0.34
MF 11.8' A = 0.34
LF 17.5' A = 1.02

160 -

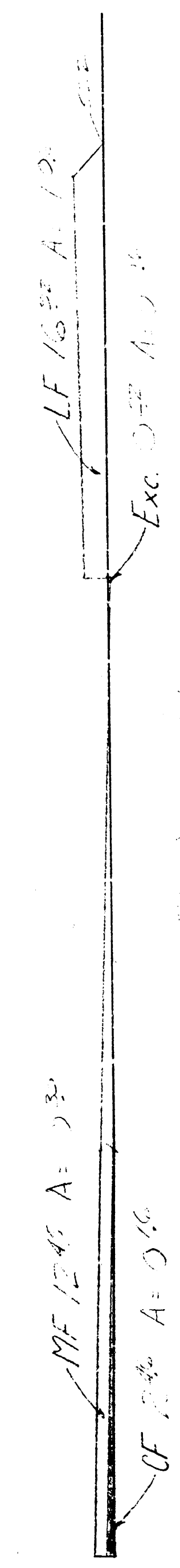
155 -



Sta 06

160 -

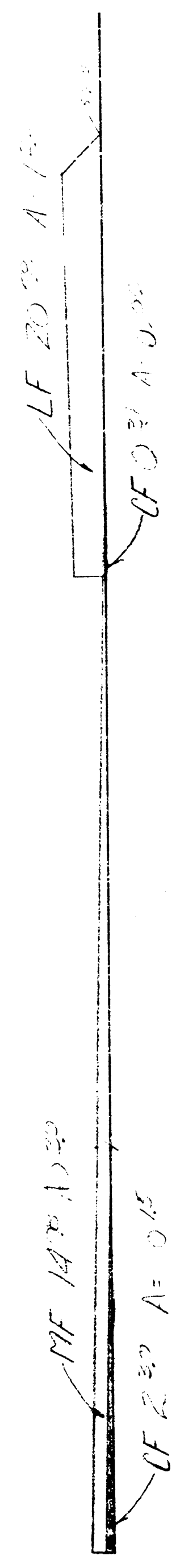
155 -



Sta 07

160 -

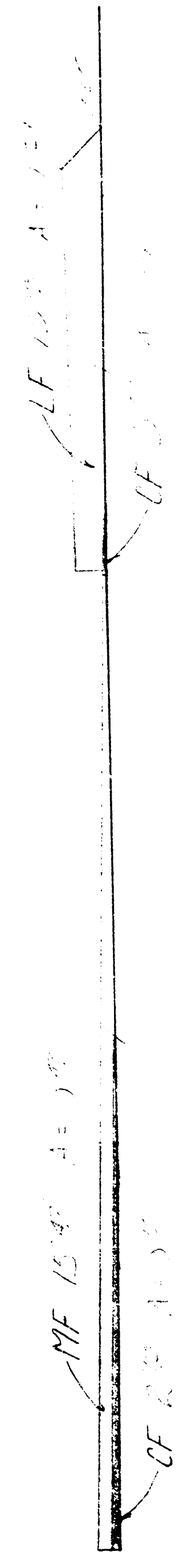
155 -



Sta 08

160 -

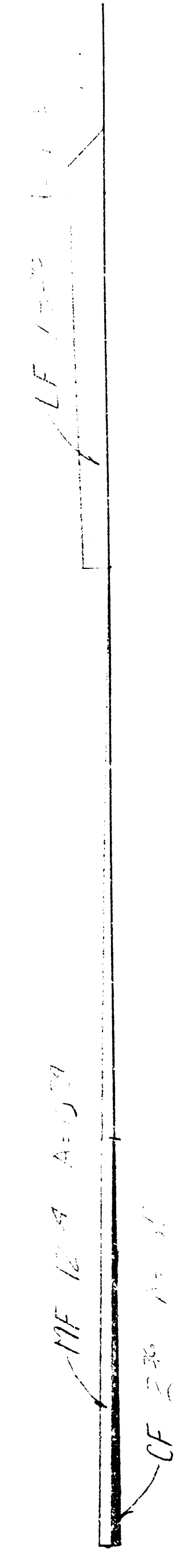
155 -



Sta 00

160 -

155 -



Sta 00

Page Totals

Westwood Heights Second Addn.
Street Pmt. Improvements
472-76-245-81707-000-001

13/13

13

Bella Vista Court