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.

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

CITY of WICHITA, KANSAS

MICHAEL E. LINDEBAK
CITY ENGINEER

GENERAL NOTES

1. Utility service lines, poles, valve boxes, meters, and etcetera 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.

2. 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.

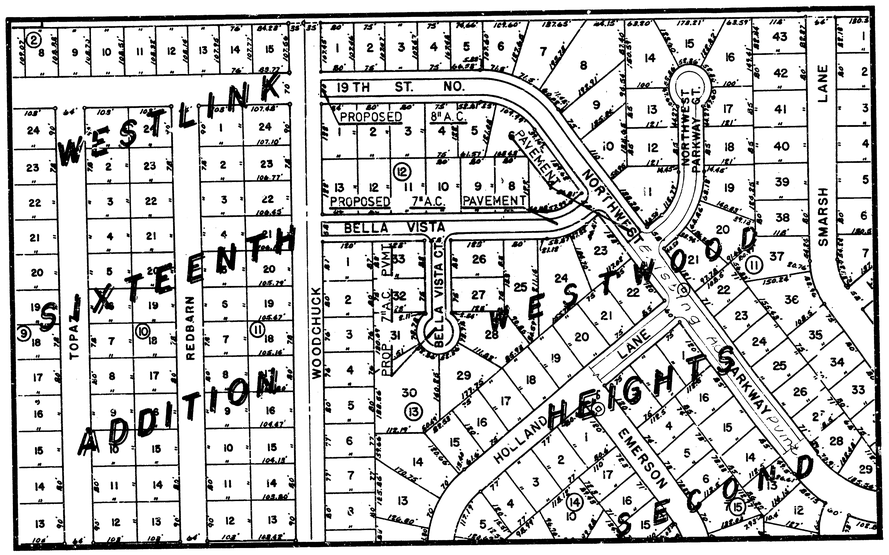
3. No more than 10 drives 18 feet in width, or equivalent combinations thereof, are to constructed with this project.

4. 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.

5. Limits 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

6. 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.

7. 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.



INDEX of SHEETS

Title Sheet	—	1
7" P.C. Pavement Typical	—	2
8" P.C. Pavement Typical	—	3
Plan Sheets	—	4-8
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

THOMAS CHARLES BUGGLES LICENSED 9021 KANSAS PROFESSIONAL ENGINEER

1/13

TITLE SHEET

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

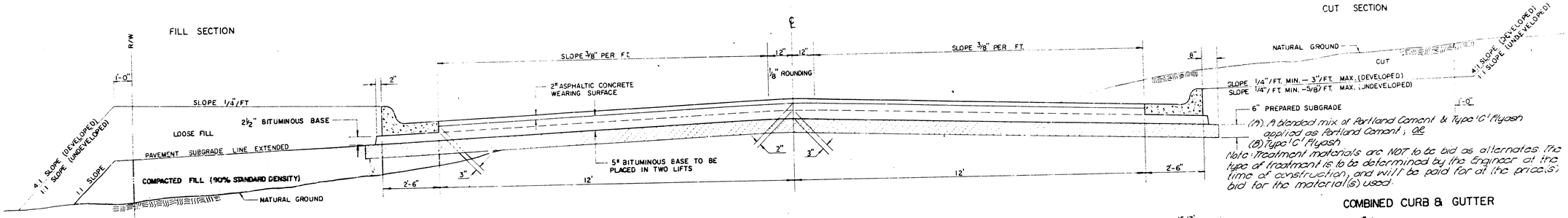
Design:	Drawn:	Approved:	Date:	Scale:	Sheet:
Buggles	Scott		22 Feb 88	1"=20'	1 of 13

Project Number:

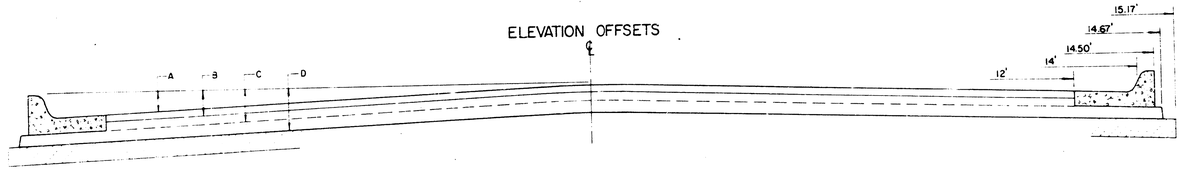
Westwood Heights Second Addn.
Pavement Improvements
448-76-245-81707-000-001

TYPICAL 29' PAVEMENT DETAILS

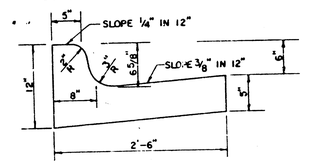
TRANSVERSE SECTION



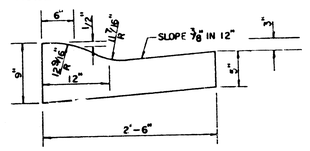
ELEVATION OFFSETS



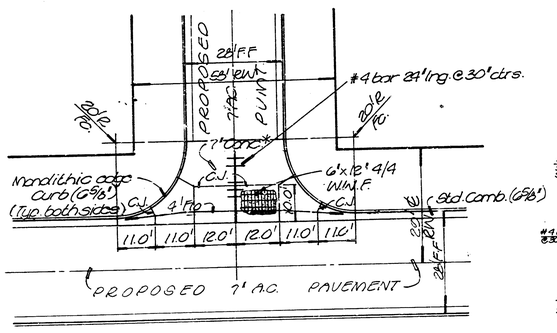
COMBINED CURB & GUTTER



ROLL TYPE COMBINED CURB & GUTTER

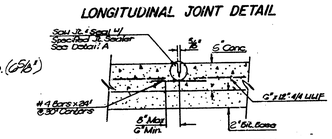


VALLEY GUTTER DETAILS

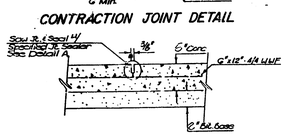


* 7" Reinforced Valley Gutter Punk. (5" Concrete with 2" Bituminous base)

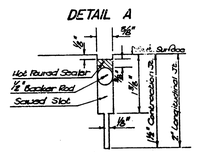
LONGITUDINAL JOINT DETAIL



CONTRACTION JOINT DETAIL



DETAIL A



TABLE

	DISTANCE FROM CENTERLINE (LT. & RT.)											
	0'	2'	4'	6'	7'	8'	10'	12'	14'	14.5'	14.67'	15.17'
A. TOP OF CURBS TO TOP OF SURFACE LIFT	0.13	0.18	0.24	0.30	0.33	0.36	0.43	0.4[illegible]	—	—	—	—
B. TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.30	0.35	0.41	0.47	0.50	0.53	0.60	0.66	—	—	—	—
C. TOP OF CURBS TO TOP OF LOWER BASE LIFT	0.47	0.52	0.60	0.68	0.71	0.75	0.83	0.90	0.98	1.00	1.01	— —
D. TOP OF CURBS TO TOP OF SUBGRADE	0.72	0.77	0.84	0.91	0.94	0.98	1.05	1.12	1.19	1.21	1.21	1.23

GENERAL NOTES

1) THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 7" ASPHALTIC CONCRETE (5" BITUMINOUS BASE).

2) THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 5" BITUMINOUS BASE.

3) A TACK COAT OF EMULSIFIED ASPHALT (GRADE AS SPECIFIED) SHALL BE APPLIED AT AN APPROXIMATE RATE OF TWO GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

4) BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING 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.

TRANSVERSE CONSTRUCTION JOINTS

TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT JOINS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 7" ASPHALTIC CONCRETE (5" BITUMINOUS BASE).

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

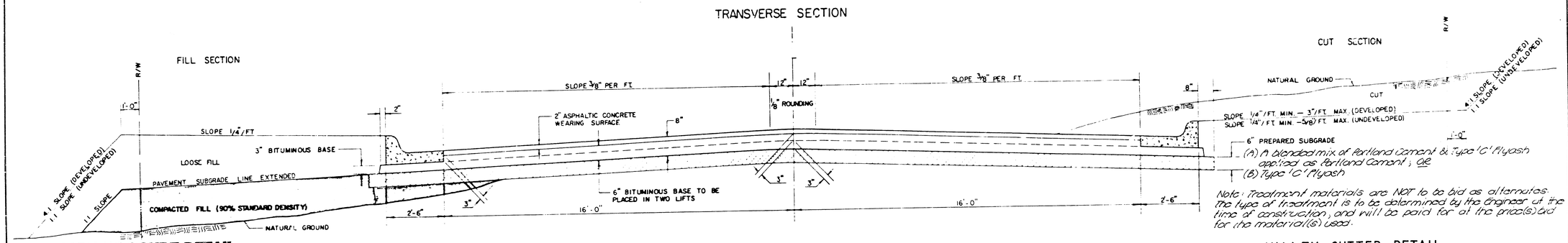
BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

Design:	Drawn:	Approved:	Date:	Scale:	Sheet:	of:
C of W		C of W		none	2	13

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

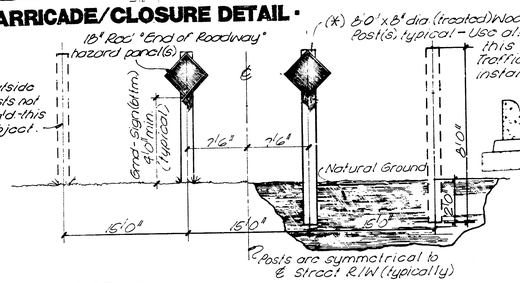
TYPICAL 37' PAVEMENT DETAILS

TRANSVERSE SECTION



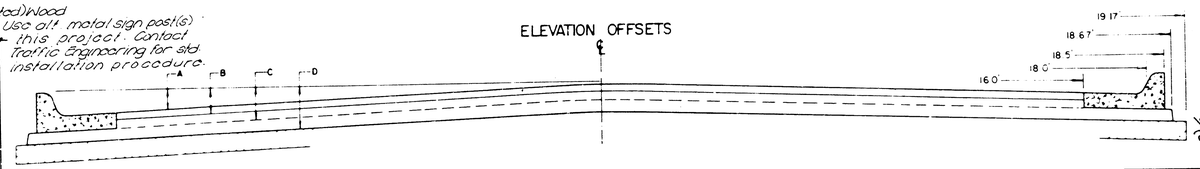
Note: Treatment materials are NOT to be bid as alternates. The type of treatment is to be determined by the Engineer at the time of construction, and will be paid for at the price(s) bid for the material(s) used.

BARRICADE/CLOSURE DETAIL *



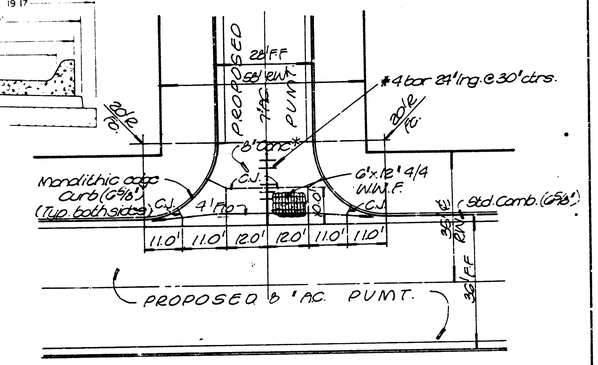
NOTES:
(*) Outside posts may not be required under specs. set forth as min. standards by Traffic Engineering Div. (C of W). Verify necessity with T.E. Div. BEFORE installation. Complete street closure is to be achieved & maintained as such.
(A). Do Not install outside posts. Not required on this project.
(B). Use Std. Metal Sign Posts as per specified type by Traffic Engineering, C of W, this project.

ELEVATION OFFSETS



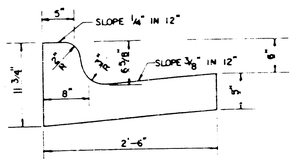
	DISTANCE FROM CENTERLINE (LT. & RT.)												
	0	2	4	6	8	10	12	14	16	18	18.5	18.67	19.17
A. TOP OF CURBS TO TOP OF SURFACE LIFT	.00	.05	.11	.18	.24	.30	.36	.43	.49	—	—	—	—
B. TOP OF CURBS TO TOP OF UPPER BASE LIFT	.17	.22	.28	.34	.40	.47	.53	.58	.65	—	—	—	—
C. TOP OF CURBS TO TOP OF LOWER BASE LIFT	.42	.47	.53	.59	.65	.72	.78	.84	.90	.97	.98	.99	—
D. TOP OF CURBS TO TOP OF SUBGRADE	.67	.72	.78	.84	.90	.97	1.03	1.09	1.15	1.22	1.23	1.24	1.25

VALLEY GUTTER DETAIL

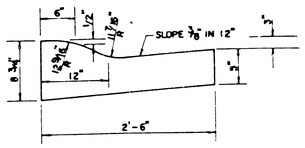


* 8' Reinforced Valley Gutter Pumt. (5" Concrete with 3" Bituminous base)

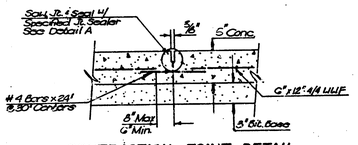
COMBINED CURB & GUTTER



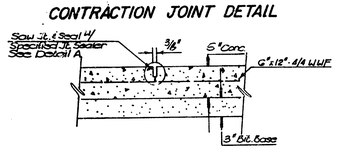
ROLL TYPE COMBINED CURB & GUTTER



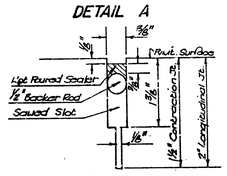
LONGITUDINAL JOINT DETAIL



CONTRACTION JOINT DETAIL



DETAIL A



GENERAL NOTES

1) THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 8" ASPHALTIC CONCRETE (6" BITUMINOUS BASE).

2) THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 3" BITUMINOUS BASE.

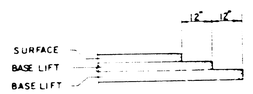
3) A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

4) BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING 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.

TRANSVERSE CONSTRUCTION JOINTS



TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT JOINS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 8" ASPHALTIC CONCRETE (6" BITUMINOUS BASE).

8" RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT w/ 6" BITUMINOUS BASE

BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
316.262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

Sheet: 3 of: 13

Design: C of W | Drawn: | Approved: C of W | Date: | Scale: none

Project Number: 472-76-243-81707-000-000-001

1" = 20.0'

0+45.90 P.U.I. (No U.C.)

2+00 P.U.I. 30 U.C. Elev. 155.84

4+06.67 P.U.I. 36 U.C. Elev. 156.10 P.C.

+0.480%

-0.358%

+0.414%

NW 1/4 Cor. S1/2 NE1/4 Sec. 9, T27S, R1W

WOODCHUCK MEWS

Sta 0+36 Begin Construction 8" N.C. Pavement (6" Bituminous base) with Std Combined Curb & Gutter (6"B & 1'2")

Existg. Inlet - Left Hook up Std Type I-A Inlet Elev. = 155.10 Top

CONSTRUCT 8" N.C. Pavement (6" Bituminous base) with Std Combined Curb & Gutter (6"B & 1'2").

Sta 4+06.07 (21.75' Left) Hook up Std Type I-A Inlet and adjust Top to 155.13

Sta 4+06.57 (21.56' Right) Hook up Std Type I-A Inlet and adjust Top to 155.13

19TH STREET NORTH

Begin Full Cr.

Existing Storm Water Sewer

Existg. Inlet - Right Hook up Std Type I-A Inlet Elev. = 155.10 Top

Sta 4+06.17 (5.7' Right) Adjust Manhole Top to: 154.96

NORTHWEST PARKWAY

Westwood Heights Second Addition

South Inlet: Remove brick from inlet opening to Elev. 154.5 (±) and rotate top to accept ditch drainage from the South. Cost to be incidental to project. Construct 6" Asph. Flume to inlet as shown.

Sta 0+43.20 P.U.I. (No U.C.)

Drainage Ditch (See Sht. 6)

Sta 2+00 P.U.I. 30 U.C. Elev. 155.84

Sta 4+06.67 P.U.I. 36 U.C. Elev. 156.10 P.C.

+0.472%

-0.358%

+0.498%

MATCH

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

EARTHWORK QUANTITIES

Excavation	2163 c.y.	Compacted Fill	14 c.y.
+ 10%	214	+ 10%	1
Total	2357 c.y.	Total	15 c.y.

Subgrade Manipulation 7040 s.y.

Borrow Material — c.y.

Revisions	By
7-15-87	Frymon

PLAN — Surveyed, Drawn, Checked, Approved — Sheet No. 8A 18

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

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

Design:	Drawn:	Approved:	Date:	Scale:	Sheet:	of Sheets:
Eagles	Seals		Sept 87	1"=20'	4	13

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

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

1" = 20.0'

-0.414%

-0.389%

+0.898%

-0.358%

+0.498%

-0.345%

+0.784%

P.C.

P.T.

MATCH LINE

5+83.59 P.U.I. 35.82 U.C. Elev. 155.50

4+06.67 P.U.I. 35.10 U.C. Elev. 155.10

8+25.35 P.U.I. 40.71 U.C. Elev. 154.86

9+13.35 P.U.I. NO U.C. Elev. 154.50

7+57.35

CAUTION: Proposed 8" Water Crossing. Elev @ C.E. St. = 151.0 Top Pipe

Sta. 7+10.35 NW Parkway Sta. 7+08.40 Bella Vista

Sta. 8+19.05 (21.35' Lt.) Hook up Std Type I-A Inlet and adjust Top to = 154.07

Sta. 9+13.35 - End Const. 8" P.C. Pavement (6" Bit. base) with Std Combined Curb & Gutter (G9b' & 1'-2") Match Existing Pavement

CONSTRUCT 8" P.C. Pavement (6" Bituminous base) with Std Combined Curb & Gutter (G9b' & 1'-2").

Valve box Elev. = 155.4

Prop. Fire Hyd. Bracket Fitg. Elev. = 155.7

Valve box Elev. = 155.4

Sta. 5+53.0 (7.72' Rt.) Adjust Manhole Top to = 155.53

Sta. 7+96.16 (21.65' Rt.) Hook up Std Type I-A Inlet and adjust Top to = 155.30

Construct 8" Reinforced Valley Gutter (6" Conc. w/ 3" Bituminous base) and Monolithic edge Curb (G9b').

Sta. 8+26.35 (6.5' Rt.) Adjust Manhole Top to = 154.81

Sta. 8+27.50 (21.45' Rt.) Hook up Std Type I-A Inlet and adjust Top to = 154.96

Saw & Remove Excess from existing 8" P.C. Pvmt. Pavement removal & Saw joint to be incidental to excavation.

PROPOSED P.C. PVMT.

EXISTING A.C. PVMT.

NORTHWEST PKWY. COURT

NORTHWEST PARKWAY

151.0' (N38°10'00"W)

19TH STREET NORTH

BELLA VISTA

Water

Storm Sewer

Sanitary Sewer

CURVE DATA BASED ON CENTERLINE DATA

R = 103.03' Δ = 58°16'18" L = 176.82' Chd. = 170.85' Tan. = 96.15' Def/ft. = 8.86338 min.

℄ Station	Arc Length	CHORD LENGTHS 8' Left/face	8' Right/face	Deflection Angle	Total Deflection Angle
4+06.67	0	——	——	00°00'00"	00°00'00"
4+25	18.33	20.40	16.29	02°42'28"	02°42'28"
4+50	25.0	27.82	22.16	03°41'35"	06°24'03"
4+75	25.0	27.82	22.16	03°41'35"	10°05'38"
5+00	25.0	27.82	22.16	03°41'35"	13°47'13"
5+25	25.0	27.82	22.16	03°41'35"	17°28'48"
5+50	25.0	27.82	22.16	03°41'35"	21°10'23"
5+75	25.0	27.82	22.16	03°41'35"	24°51'58"
5+88.80	8.80	0.56	7.01	01°16'08"	26°08'06"

INTERSECTION QUANTITIES

	SY	" Concrete Pavement
120.9	SY	6 " Asphaltic Conc. Pavement (6 " Bituminous Base)
	SY	" Bituminous Base
	LF	Combined Curb & Gutter
66.5	LF	Monolithic Edge Curb
	SF	4" Wheelchair Ramp
	SF	4" Walk
	CY	Excavation
	CY	Compacted Fill
	Lbs.	Reinforcing Steel
225.4	SY	Manipulation
	Tons	Lime or Cement
99.9	SY	Valley Gtr. 5 " Concrete & 3 " Asphaltic Conc. Base

Rev. 7.15.87 by Fryman

Surveyed Drawn Checked Approved

PLAN NOTE BOOK No. BA 18

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

5/12

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SURVEYING & ENGINEERING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

Design: Eagles Drawn: Scott Approved: Date: Sept. 87 Scale: 1"=20'

Sheet 5 of 13

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

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

1" = 20.0'

* Grade 215 L.F. of ditch to drain north to existing inlet 30' of 19th St. (See Sht. 9.) DSFL = 156.20; DSFL = 154.5 (±) @ inlet.

0+48.18

+0.402%

1+80.0 P.V.I. 40' V.C. Elev. 157.28

-0.423%

3+40.86 P.I. (No V.C.) Elev. = 156.60

-0.320%

12

13 | 12 | 11 | 10 | 9

Sta. 0+35 Begin Construction. 7" N.C. Pavement (6" Bituminous base) with 8'd Combined Curb & Gutter (6"b' & 1½").

Value box Elev. = 156.7

Value box Elev. = 156.8

WOODCHUCK (Proposed)

PUNT.

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

11

21

20

FUTURE

BELLA VISTA

1 | 2 | 3 | 4

HP

Warp 6" Crown

Construct Non-Std Curb & Gutter. To be paid as, and incidental to L.F. Std. Comb. Curb & Gutter (6"8' & 1½"). Typical each side.

Construct 7" Reinforced Valley Gutter Arnt. (6" conc. w/ 2" Bit. base) and Monolithic edge curb (6"8').

Prop. Fire Hyd. Bronze flange Elev. = 156.9 Valve box Elev. = 157.3

36' F.F. 70' R/W

28' F.F. 58' R/W

BELLA VISTA COURT

1 | 33 | 26

+0.401%

-0.355%

-0.320%

13

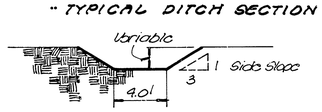
0+47.82

1+80.0 P.V.I. 40' V.C. Elev. 157.28

2+72.86

3+40.86

"TYPICAL DITCH SECTION"



* INTERSECTION QUANTITIES *

____	SY ____ " Concrete Pavement
907	SY 7 " Asphaltic Conc Pavement (5" Bituminous Base)
____	SY ____ " Bituminous Base
____	LF Combined Curb & Gutter
62.6	LF Monolithic Edge Curb
____	SF 4" Wheelchair Ramp
____	SF 4" Walk
____	CY Excavation
____	CY Compacted Fill
____	Lbs. Reinforcing Steel
125.3	SY Manipulation
____	Tons Large or Cement
900	SY Valley Gtr. 5 " Concrete & 2 " Asphaltic Conc Base

Date: 7-15-87

To: Fryman

PLAN sheets numbered 18 to 24

Surveyed / Plans / Checked / Approved

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

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

Sheet: 6 of 13

Design: Ruggles | Drawn: Scalf | Approved: | Date: Sept. 87 | Scale: 1"=20'

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

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

CURVE DATA BASED ON CENTERLINE DATA

R=117.07' Δ=37°48'47" L= 77.00' Chd.= 75.71' Tan.= 40.00' Def/ft.= 14.68273 min.

℄ Station	Arc Length	CHORD LENGTHS 8' Left/face	8' Right/face	Deflection Angle	Total Deflection Angle
5+00	——	——	——	00°00'00"	00°00'00"
5+15	15.0	12.17	17.81	03°40'14"	03°40'14"
5+40	25.0	20.26	29.64	05°07'08"	08°47'19"
5+65	25.0	20.26	29.64	05°07'04"	13°54'23"
5+31.00	12.00	9.81	14.36	02°57'31"	16°51'54"

1"= 20.0'

12 11 10 9 8 7

P.U.I. (No V.C.) Elev.=156.00

3+40.86

-0.423%

-0.320%

CONSTRUCT 7" A.C. Pavement (6" Bituminous base) with Std. Combined Curb & Gutter (6"& 1'-6").

Prop. Fire Hyd. Breakaway Flange Elev. = 156.0 Valve box Elev. = 156.7

P.U.I. (No V.C.) Elev.=165.00

6+37.09 PT.

-0.325%

PC. 5+60

-0.427%

-0.320%

P.U.I. (No V.C.) Elev.=156.00

3+40.86

BELLA VISTA CT. (N28°27'17"W)

BELLA VISTA

NORTHWEST PROPOSED

PARKWAY pvmt.

Sta. 6+70.00 : End Construction 7" A.C. Pavement (6" Bituminous base) with Std. Combined Curb & Gutter (6"& 1'-6") Begin 8' Reinforced Valley Gutter (6" conc. w/ 3" Bit. base) and Mono Vertic. edge curb (6"&) See Sht. 5 for intersection quantities

Sta. 6+70.00 End Construction 7" A.C. Pavement (6" Bituminous base) with Std. Combined Curb & Gutter (6"& 1'-6") Begin 8' Reinforced Valley Gutter (6" conc. w/ 3" Bit. base) and Mono Vertic. edge curb (6"&) See Sht. 5 for intersection quantities

P.U.I. 40' V.C. Elev. 164.06

-0.325%

6+70.90

P.U.I. (No V.C.) Elev.=165.00

6+37.09 PT.

-0.325%

P.U.I. (No V.C.) Elev.=165.00

-0.336%

-0.320%

PC.

3+40.86

5+60

26 25 24 13

BELLA VISTA

STA. 3+40.86 - STA. 6+73.90

1/3

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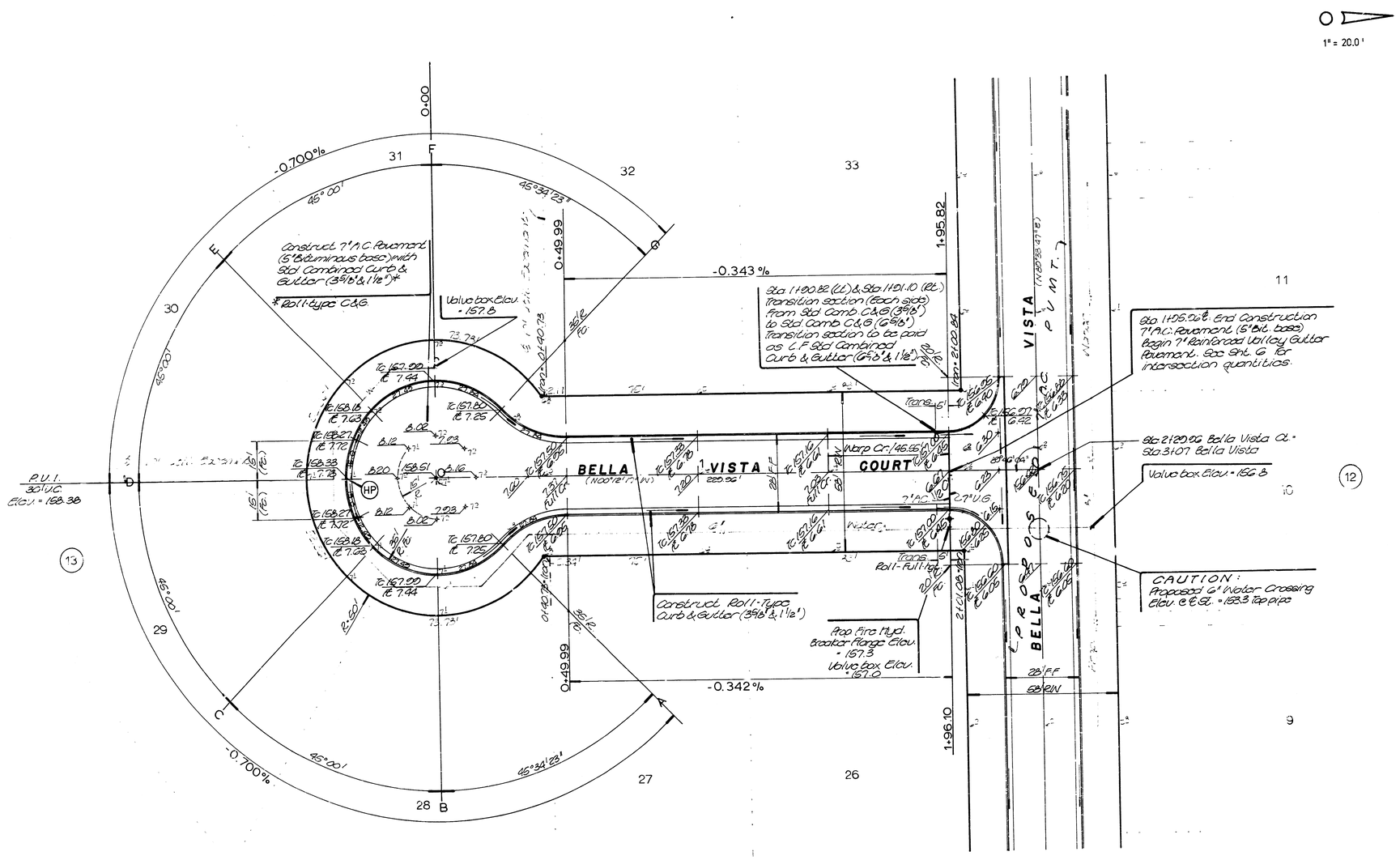
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

Design: Riggles | Drawn: Sayir | Approved: | Date: Sept. 87 | Scale: 1"=20' | Sheet 7 of 13

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

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

PLAN | Sheet No. 8A of 18 | Surveyed | Drawn: Feyman | Checked | Approved | Date: 7-15-87



PLAN
NOTE BOOK No. BA 18
Surveyed
Drawn
Checked
Approved
Date 7-15-87
By Frysman

BELLA VISTA COURT
STA. 0+00 - STA. 1+95.96

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

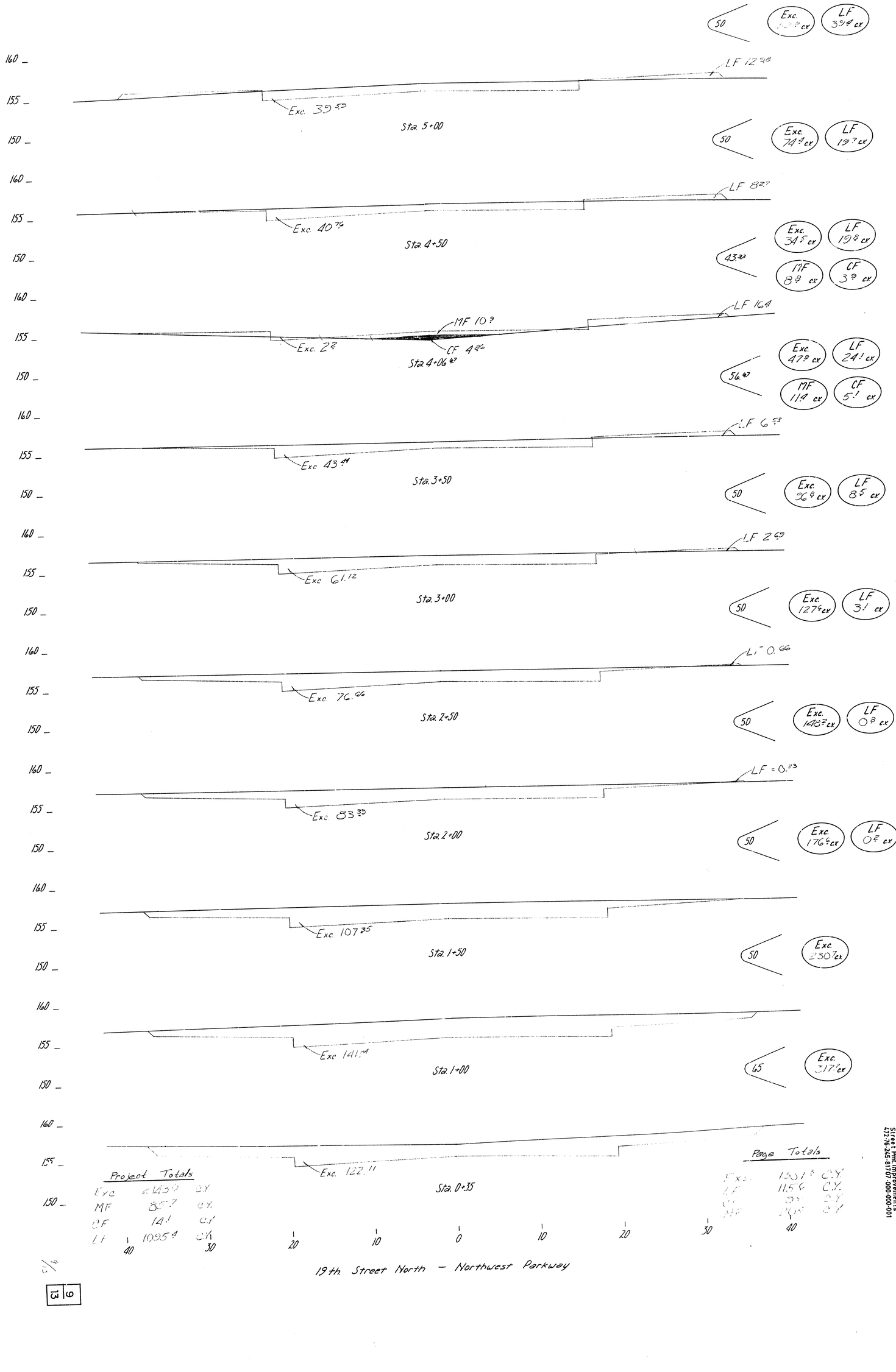
Design:	Drawn:	Approved:	Date:	Scale:
Buggles	Scott		Sept. 87	1" = 20'

Sheet: 8 of: 13

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

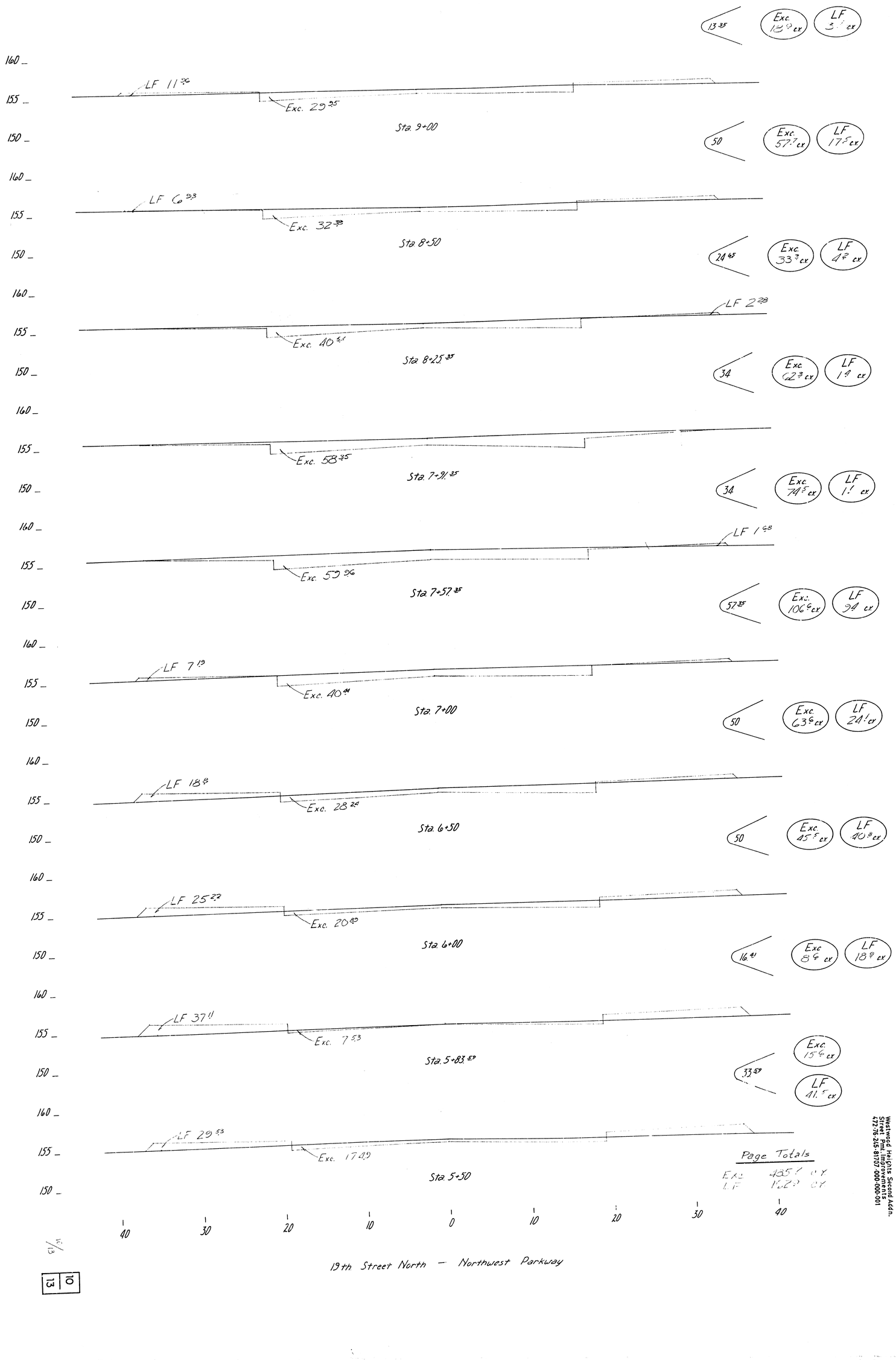
472-76-245-81707-000-000-001

BA 18



Westwood Heights Second Addn.
Street Pmt. Improvements
472-76-245-8170-000-000-001

BA 18



Page Totals

Ex± 435.1 cx

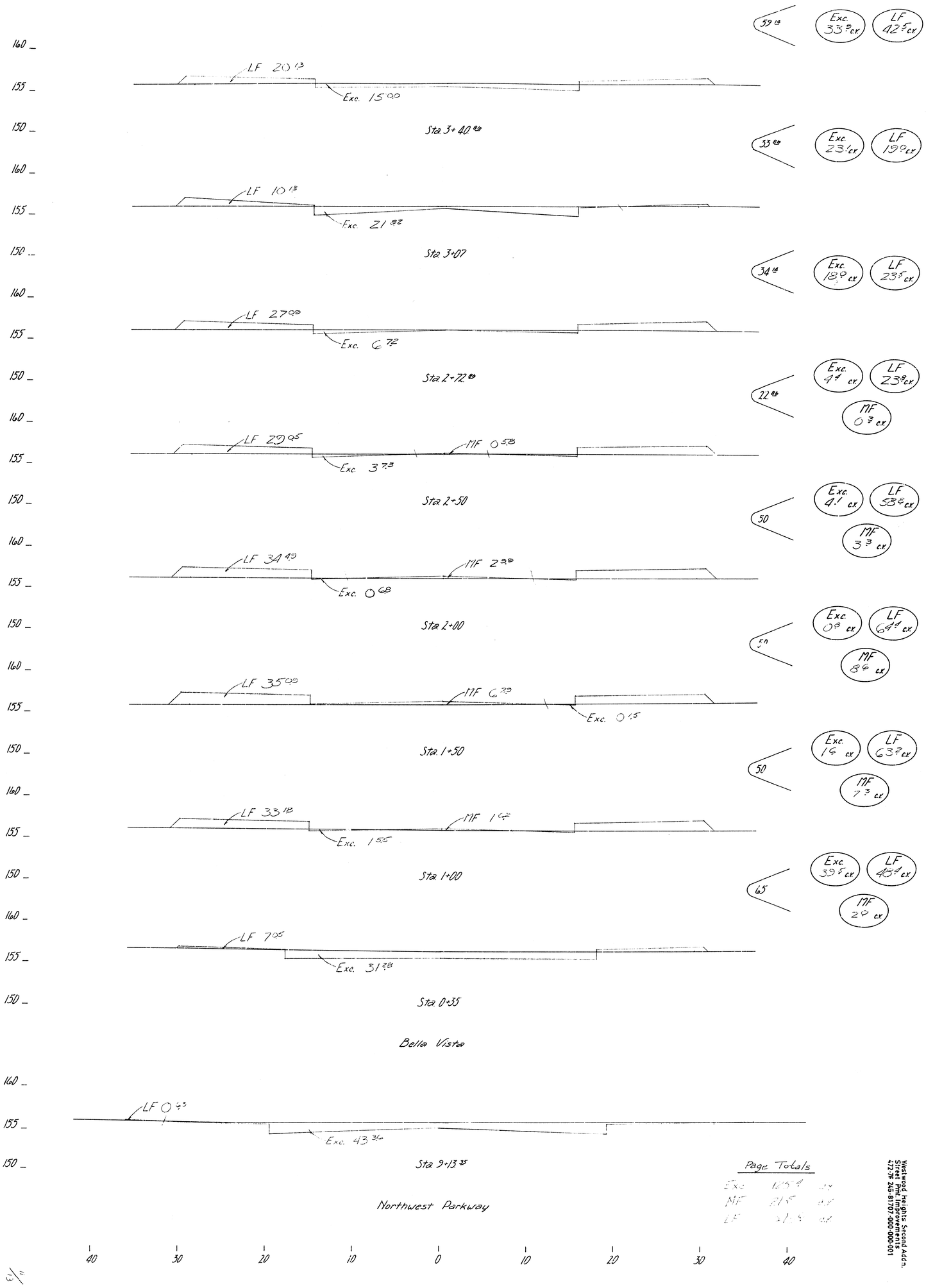
LF 102.2 cx

Westwood Heights Second Addn.
Hamilton County
Street 472'76 265 81707 000-000-001

13/13

13 | 10

BA 18



Page Totals

Exc	163.4	cy
MF	27.5	cy
LF	413.9	cy

Westwood Heights Second Addn.
Street Improvements
477.79' 245-81707-000-000-001

BA 18

MF: $\pi(\frac{20.0}{2}+2)^2(\frac{45}{360})(\frac{0.39+0.00}{2})/27 = 5.41$ C.Y.

CF: $\pi(\frac{12.5}{2}+2)^2(\frac{45}{360})(\frac{2.19+0.13}{2})/27 = 0.41$ C.Y.

LF: $\pi(\frac{20.0}{2}+2)^2-(\frac{12.5}{2}+2)^2(\frac{45}{360})(\frac{0.13+1.13}{2}+0.5)/27 = 2.29$ C.Y.

Exc: $\pi(\frac{20.0}{2})^2-(\frac{12.5}{2})^2(\frac{45}{360})(\frac{0.00+2.19}{2}+0.5)/27 = 0.43$ C.Y.

45°00'

160 _

155 _

MF 15.20 A=0.39

LF 12.[illegible] A=[illegible]

CF 2.34 A=0.42

Exc. 1.93 A=[illegible]

Sta. 0B

MF: $\pi(\frac{20.0}{2}+2)^2(\frac{45}{360})(\frac{0.00+0.39}{2})/27 = 4.19$ C.Y.

CF: $\pi(\frac{12.5}{2}+2)^2(\frac{45}{360})(\frac{2.19+0.13}{2})/27 = 0.56$ C.Y.

LF: $\pi(\frac{20.0}{2}+2)^2-(\frac{12.5}{2}+2)^2(\frac{45}{360})(\frac{0.13+1.13}{2}+0.5)/27 = 2.19$ C.Y.

Exc: $\pi(\frac{20.0}{2})^2-(\frac{12.5}{2})^2(\frac{45}{360})(\frac{0.00+2.19}{2}+0.5)/27 = 2.51$ C.Y.

45°34'23"

160 _

155 _

MF 5.81 A=0.39

LF 16.42 A=1.27

CF 2.9

Exc. 1.31 A=[illegible]

Sta. 0A

Bella Vista Court

0 10 20 30 40 50

160 _

155 _

LF 11.11

Exc. 23.91

Sta. 6+73.20

150 _

36.91 — Exc. 31.3 c.y. — LF 18.5 c.y.

160 _

155 _

LF 16.05

Exc. 21.29

Sta. 6+37.20

150 _

37.20 — Exc. 25.9 c.y. — LF 23.9 c.y.

160 _

155 _

LF 18.76

Exc. 15.95

Sta. 6+00

150 _

40 — Exc. 22.8 c.y. — LF 25.1 c.y.

160 _

155 _

LF 15.91

Exc. 15.79

Sta. 5+60

150 _

60 — Exc. 38.8 c.y. — LF 33.3 c.y.

160 _

155 _

LF 14.34

Exc. 19.16

Sta. 5+00

150 _

50 — Exc. 32.9 c.y. — LF 26.7 c.y.

160 _

155 _

LF 14.[illegible]

Exc. 16.30

Sta. 4+50

150 _

50 — Exc. 29.9 c.y. — LF 30.7 c.y.

160 _

155 _

LF 13.[illegible]

Exc. 15.37

Sta. 4+00

150 _

Page Totals

MF	[illegible]	C.Y.
CF	[illegible]	C.Y.
LF	[illegible]	C.Y.
Exc.	[illegible]	C.Y.

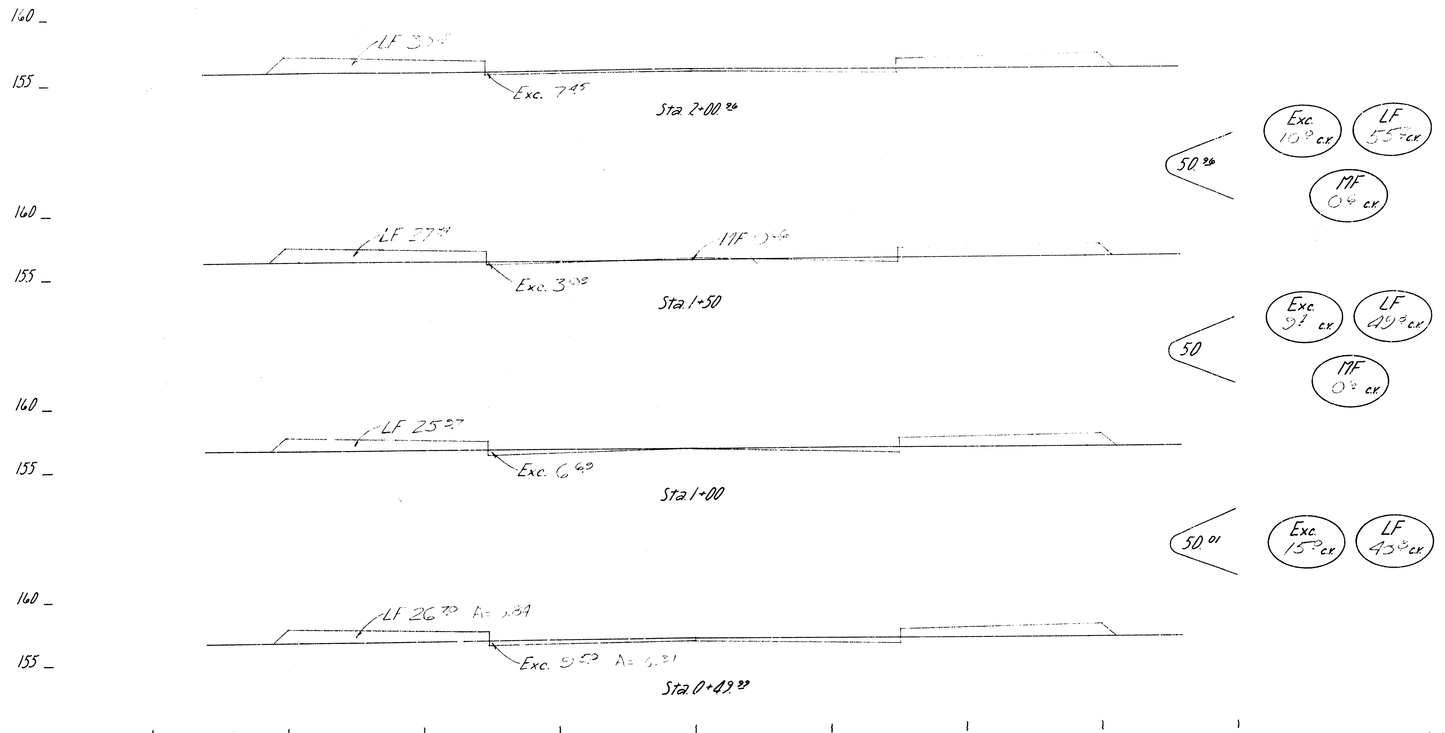
Bella Vista

40 30 20 10 0 10 20 30 40

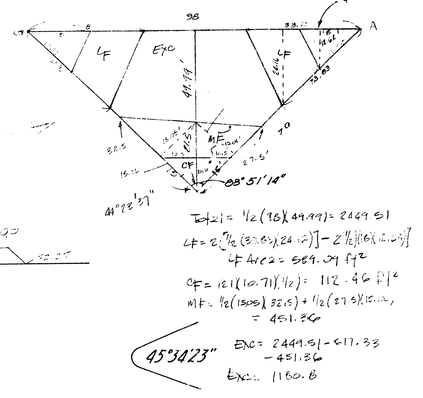
Westwood Heights Second Addn.
Street Improvements
472-76-245 91707-000-000-001

12/13

BA 18

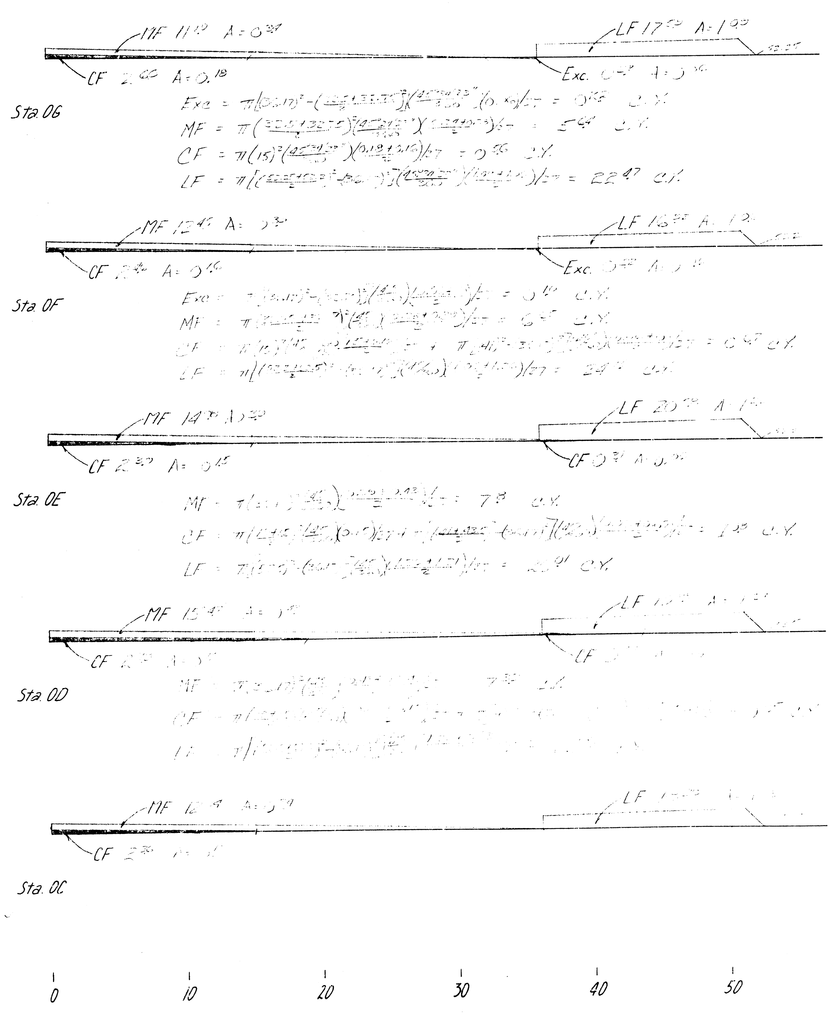


Exc: (1180.8)(2449.91/27) = 758 c.y.
MF = (451.36)(1'/27) = 5.68 c.y.
CF = (112.96 sf)((2.44 + 2.15)/2)/27 = 0.95 c.y.
LF = (403.63 - 114.33)(2)(1.22 sf/2)/27 = 21.95 c.y.



Tot 21 = 1/2(98)(49.99) = 2449.91
LF = 2 1/2 [(32.5)(24.12)] - 2 1/2 [(6)(12.07)]
LF 4+C2 = 569.39 ft²
CF = 12.1(10.71)(1/2) = 112.96 ft²
MF = 1/2(1505)(32.5) + 1/2(27.5)(15.0)
= 451.86

45°34'23" Exc = 2449.91 - 617.33 - 451.86 = Exc: 1180.8



Page Totals

Bella Vista Court

Westwood Heights Second Addn.
Street Pmt. Improvements
472-76-245-8170-000-000-001

13/13