

CITY OF WICHITA, KANSAS

STREET IMPROVEMENTS

(WEST MAPLE STREET)

EAST LINE ROBIN ROAD TO 360' W. OF W.L. BRUNSWICK

MICHAEL E. LINDEBAK, CITY ENGINEER

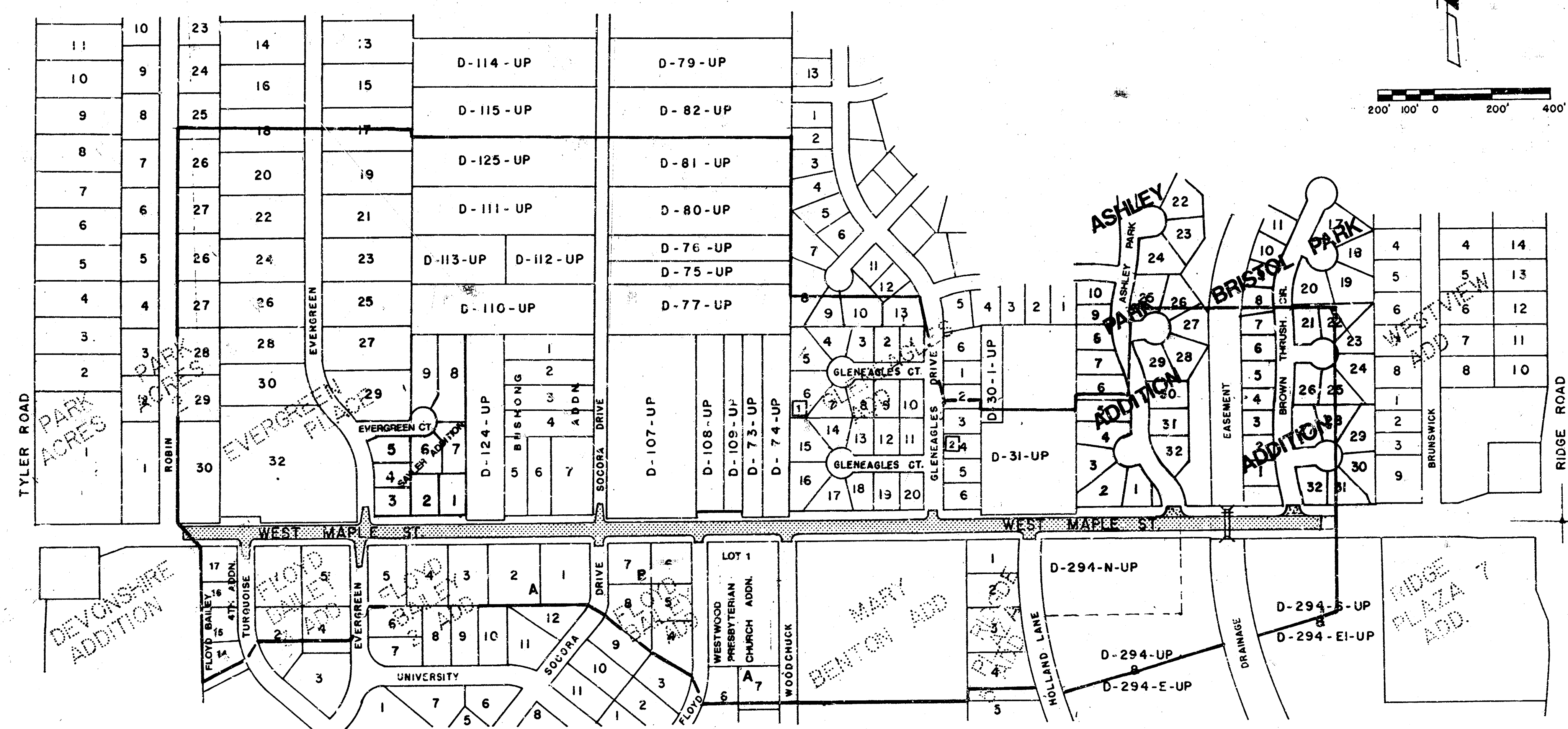
PHASE II LANDSCAPING PLAN

PROJ. NO. 472-76-245-81638-000-000-001

INDEX NO. 705327

GENERAL NOTES

1. INFORMATION SHOWN ON PLANS NOT DIRECTLY RELATED TO THE TREE PLANTINGS IS NOT A PART OF THIS CONTRACT AND SHALL BE CONSIDERED AS DELETED.
2. ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO A CONDITION ACCEPTABLE TO THE ENGINEER. THIS WORK SHALL BE SUBSIDIARY TO OTHER BID ITEMS.
3. EXACT LOCATION FOR TREE PLANTINGS TO BE DETERMINED BY THE ENGINEER.
4. LANDSCAPE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF PLANT MATERIAL (INCLUDING SANITARY SEWERS). UTILITIES CAN BE FLAGGED BY CALLING 687-2470.
5. TREES SHALL BE ORNAMENTAL TYPE (SPRINGSNOW CRABAPPLE, HAWTHORNE, CHANTICLEER PEAR & GOLDEN RAINTREE) AND RANGE IN SIZE FROM 2-1/2' TO 3'. TREES SHALL BE BALLED AND BAGGED.



INDEX

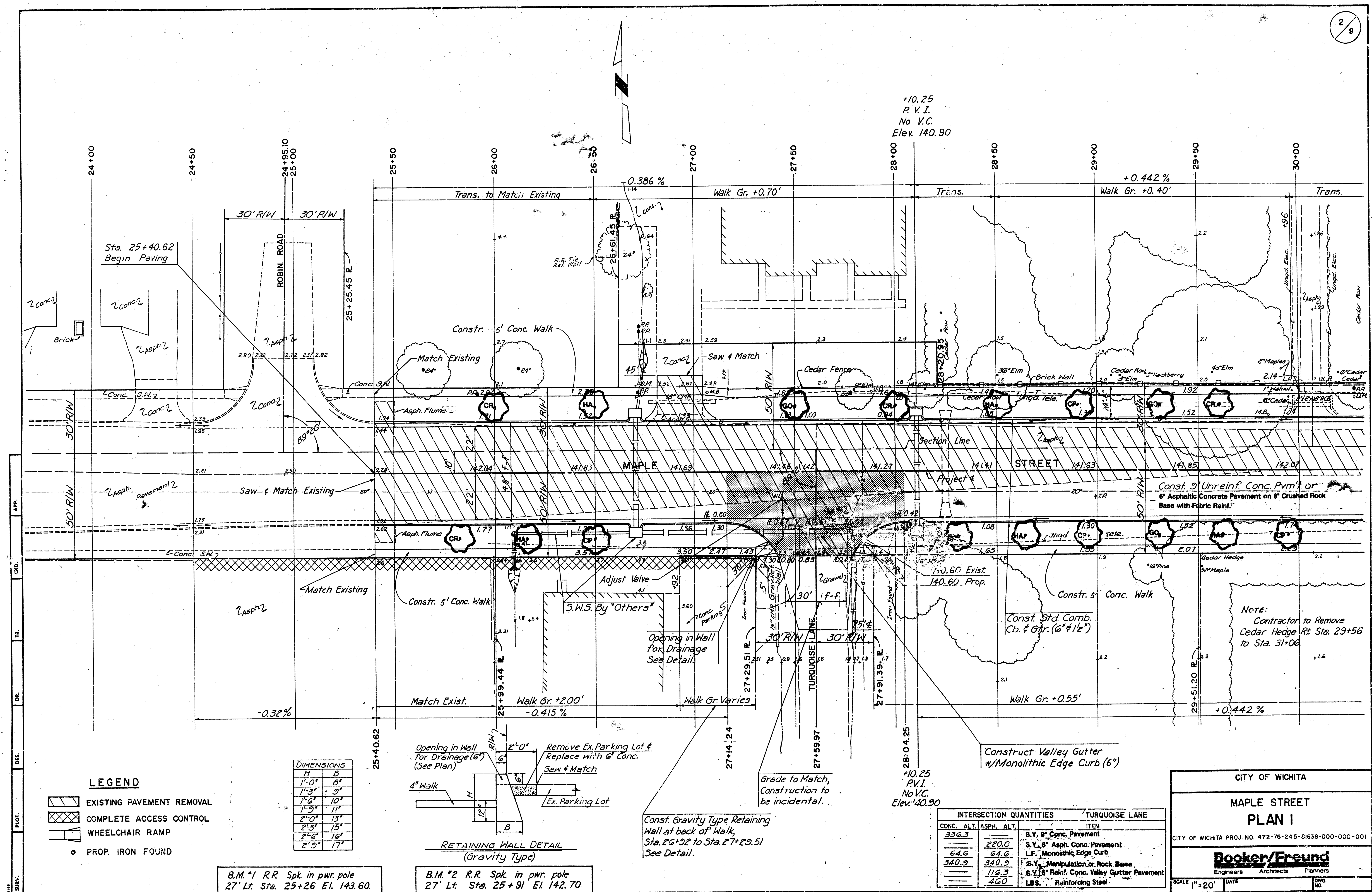
SHEET NO.	DESCRIPTION
1.	TITLE SHEET
2-8	PLAN (TREE LOCATIONS)
9.	TREE PLANTING SCHEDULE with DETAILS

PLANS PREPARED BY

Booker/Freund
Engineers Architects Planners

WICHITA, KANSAS





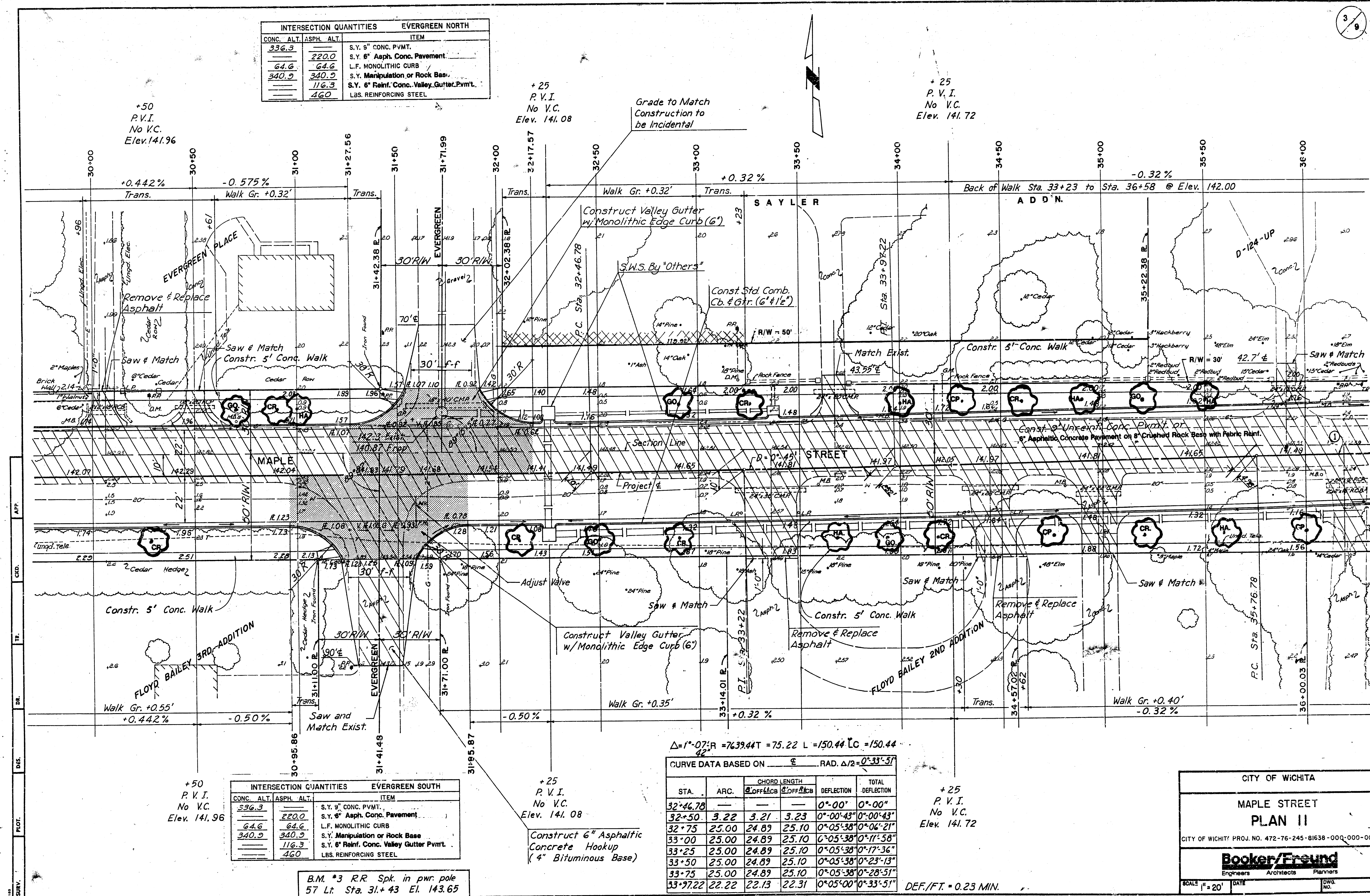
INTERSECTION QUANTITIES		EVERGREEN NORTH
CONC.	ALT.	ITEM
336.3	220.0	S.Y. 9" CONC. PVMT.
64.6	64.6	S.Y. 6" Asph. Conc. Pavement
340.9	340.9	L.F. MONOLITHIC CURB
116.3	116.3	S.Y. Manipulation or Rock Base
460	460	S.Y. 6" Reinf. Conc. Valley Gutter Pvm't.
		LBS. REINFORCING STEEL

+50
P.V.I.
No V.C.
Elev. 141.96

+25
P.V.I.
No V.C.
Elev. 141.08

+25
P.V.I.
No V.C.
Elev. 141.72

Grade to Match
Construction to
be Incidental



$\Delta = 1^{\circ}07'30''$ $R = 7639.44$ $L = 75.22$ $L = 150.44$ $LC = 150.44$

CURVE DATA BASED ON $\frac{1}{2}$ RAD. $\Delta/2 = 0^{\circ}33'51''$

STA.	ARC.	CHORD LENGTH	CHORD BEARS	DEFLECTION	TOTAL DEFLECTION
32+46.78				0°00'	0°00'
32+50	3.22	3.21	3.23	0°00'43"	0°00'43"
32+75	25.00	24.89	25.10	0°05'38"	0°06'21"
33+00	25.00	24.89	25.10	0°05'38"	0°11'58"
33+25	25.00	24.89	25.10	0°05'38"	0°17'36"
33+50	25.00	24.89	25.10	0°05'38"	0°23'13"
33+75	25.00	24.89	25.10	0°05'38"	0°28'51"
33+97.22	22.22	22.13	22.31	0°05'00"	0°33'51"

+25
P.V.I.
No V.C.
Elev. 141.72

DEF./FT. = 0.23 MIN.

INTERSECTION QUANTITIES		EVERGREEN SOUTH
CONC.	ALT.	ITEM
336.3	220.0	S.Y. 9" CONC. PVMT.
64.6	64.6	S.Y. 6" Asph. Conc. Pavement
340.9	340.9	L.F. MONOLITHIC CURB
116.3	116.3	S.Y. Manipulation or Rock Base
460	460	S.Y. 6" Reinf. Conc. Valley Gutter Pvm't.
		LBS. REINFORCING STEEL

+50
P.V.I.
No V.C.
Elev. 141.96

+25
P.V.I.
No V.C.
Elev. 141.08

Construct 6" Asphaltic
Concrete Hookup
(4" Bituminous Base)

B.M. *3 R.R. Spk. in pwr. pole
57 Lt. Sta. 31+43 El. 143.65

CITY OF WICHITA

MAPLE STREET
PLAN II

CITY OF WICHITA PROJ. NO. 472-76-245-81638-000-000-001

Booker/Freund

Engineers Architects Planners

SCALE 1" = 20' DATE DWG. NO.

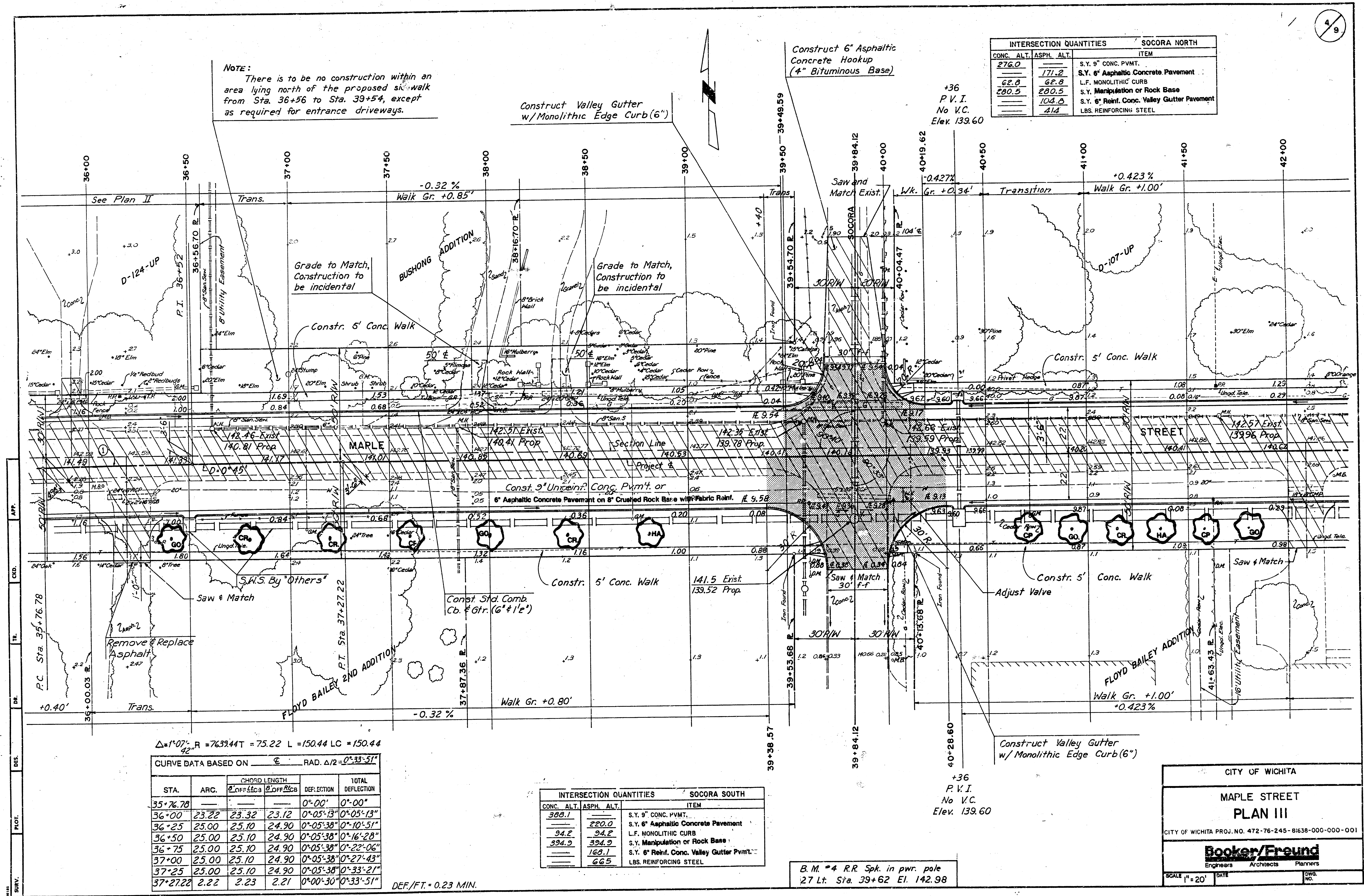
NOTE:
There is to be no construction within an area lying north of the proposed sidewalk from Sta. 36+56 to Sta. 39+54, except as required for entrance driveways.

Construct Valley Gutter w/ Monolithic Edge Curb (6")

Construct 6" Asphaltic Concrete Hookup (4" Bituminous Base)

INTERSECTION QUANTITIES		SOCORA NORTH	
CONC. ALT.	ASPH. ALT.	ITEM	
276.0	171.2	S.Y. 9" CONC. PVMT.	
62.8	62.8	S.Y. 6" Asphaltic Concrete Pavement	
280.5	280.5	L.F. MONOLITHIC CURB	
	104.8	S.Y. Manipulation or Rock Base	
	414	S.Y. 6" Reinf. Conc. Valley Gutter Pavmt.	
		LBS. REINFORCING STEEL	

+36
P.V.I.
No V.C.
Elev. 139.60



$\Delta=1^{\circ}07'$, $R=7639.44$ $T=75.22$ $L=150.44$ $LC=150.44$
 $\Delta/2=0^{\circ}33'51''$

CURVE DATA BASED ON		E		RAD. $\Delta/2=0^{\circ}33'51''$	
STA.	ARC.	CHORD LENGTH	CHORD BEARS	DEFLECTION	TOTAL DEFLECTION
35+76.78				0°00'	0°00'
36+00	23.22	23.32	23.12	0°05'13"	0°05'13"
36+25	25.00	25.10	24.90	0°05'38"	0°10'51"
36+50	25.00	25.10	24.90	0°05'38"	0°16'28"
36+75	25.00	25.10	24.90	0°05'38"	0°22'06"
37+00	25.00	25.10	24.90	0°05'38"	0°27'43"
37+25	25.00	25.10	24.90	0°05'38"	0°33'21"
37+27.22	2.22	2.23	2.21	0°00'50"	0°33'51"

DEF/FT = 0.23 MIN.

INTERSECTION QUANTITIES		SOCORA SOUTH	
CONC. ALT.	ASPH. ALT.	ITEM	
388.1	220.0	S.Y. 9" CONC. PVMT.	
94.2	94.2	S.Y. 6" Asphaltic Concrete Pavement	
394.9	394.9	L.F. MONOLITHIC CURB	
	168.1	S.Y. Manipulation or Rock Base	
	665	S.Y. 6" Reinf. Conc. Valley Gutter Pavmt.	
		LBS. REINFORCING STEEL	

B.M. #4 R.R. Spk. in pwr. pole
27 Lt. Sta. 39+62 El. 142.98

+36
P.V.I.
No V.C.
Elev. 139.60

CITY OF WICHITA

MAPLE STREET
PLAN III

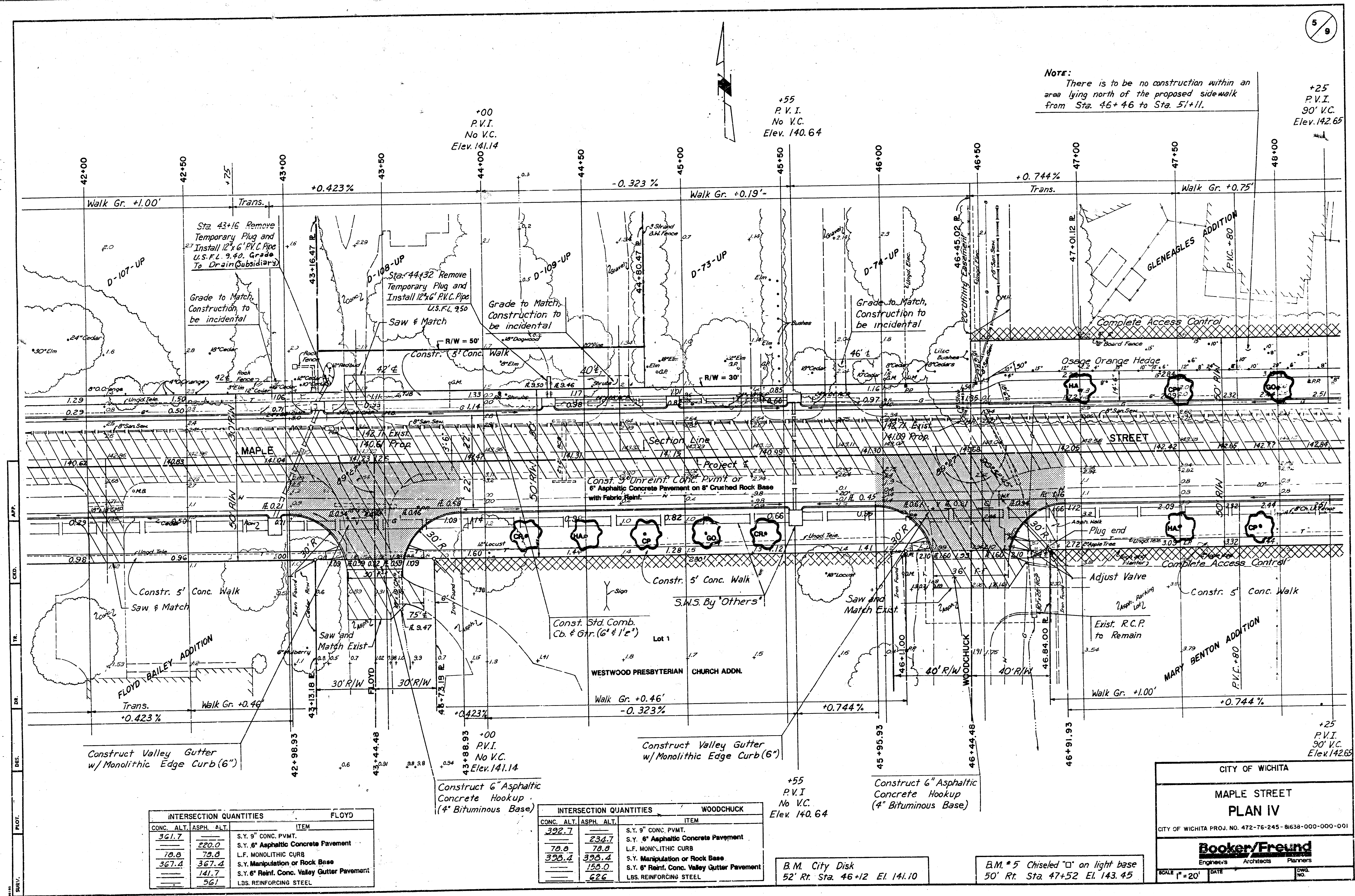
CITY OF WICHITA PROJ. NO. 472-76-245-81638-000-001

Booker/Freund
Engineers Architects Planners

SCALE 1" = 20' DATE _____ DWG. NO. _____

NOTE:
There is to be no construction within an area lying north of the proposed sidewalk from Sta. 46+46 to Sta. 51+11.

+25
P.V.I.
90' V.C.
Elev. 142.65



Construct Valley Gutter w/ Monolithic Edge Curb (6")

+00
P.V.I.
No V.C.
Elev. 141.14

Construct 6" Asphaltic Concrete Hookup (4" Bituminous Base)

+55
P.V.I.
No V.C.
Elev. 140.64

Construct 6" Asphaltic Concrete Hookup (4" Bituminous Base)

+25
P.V.I.
90' V.C.
Elev. 142.65

INTERSECTION QUANTITIES			FLOYD
CONC.	ALT.	ASPH.	ALT.
361.7			
	220.0		
78.8			
367.4			
	141.7		
	561		
ITEM			
S.Y. 9" CONC. PVMT.			
S.Y. 6" Asphaltic Concrete Pavement			
L.F. MONOLITHIC CURB			
S.Y. Manipulation or Rock Base			
S.Y. 6" Reinf. Conc. Valley Gutter Pavement			
LBS. REINFORCING STEEL			

INTERSECTION QUANTITIES			WOODCHUCK
CONC.	ALT.	ASPH.	ALT.
392.7			
	234.7		
78.8			
398.4			
	158.0		
	626		
ITEM			
S.Y. 9" CONC. PVMT.			
S.Y. 6" Asphaltic Concrete Pavement			
L.F. MONOLITHIC CURB			
S.Y. Manipulation or Rock Base			
S.Y. 6" Reinf. Conc. Valley Gutter Pavement			
LBS. REINFORCING STEEL			

B.M. City Disk
52' Rr. Sta. 46+12 El. 141.10

B.M. #5 Chiseled "D" on light base
50' Rr. Sta. 47+52 El. 143.45

CITY OF WICHITA

MAPLE STREET
PLAN IV

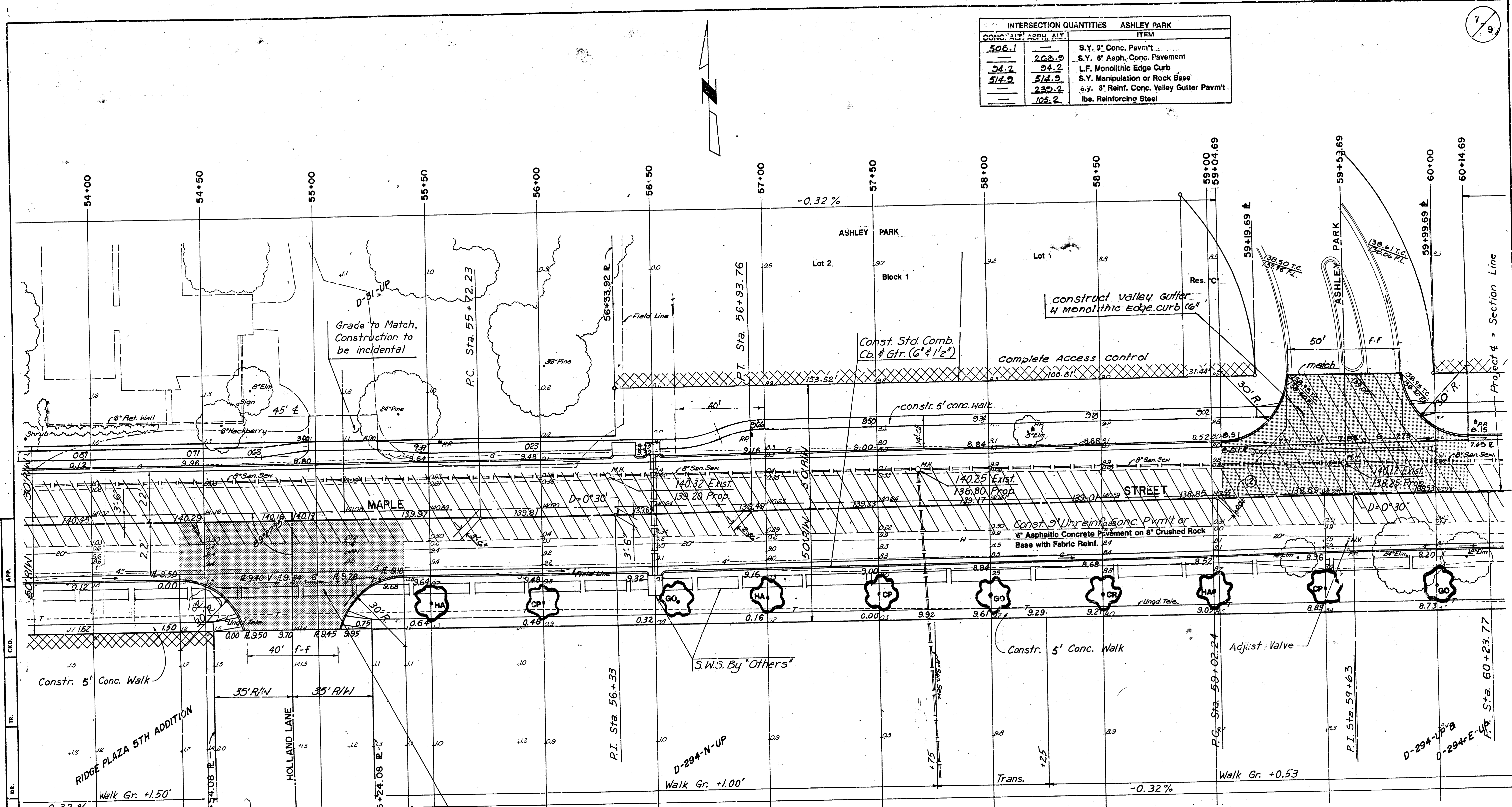
CITY OF WICHITA PROJ. NO. 472-76-245 - 81638-000-000-001

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SCALE 1" = 20' DATE _____ DWG. NO. _____

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INTERSECTION QUANTITIES		ASHLEY PARK
CONC. ALT.	ASPH. ALT.	ITEM
508.1	—	S.Y. 9" Conc. Pavm't
—	268.9	S.Y. 6" Asph. Conc. Pavement
34.2	94.2	L.F. Monolithic Edge Curb
514.2	514.2	S.Y. Manipulation or Rock Base
—	230.2	S.Y. 6" Reinf. Conc. Valley Gutter Pavm't
—	105.2	lbs. Reinforcing Steel



INTERSECTION QUANTITIES		HOLLAND LANE
CONC. ALT.	ASPH. ALT.	ITEM
413.4	—	S.Y. 9" CONC. PVMT.
—	244.4	S.Y. 6" Asph. Conc. Pavement
78.8	78.8	L.F. MONOLITHIC CURB
419.1	419.1	S.Y. Manipulation or Rock Base
—	169.0	S.Y. 6" Reinf. Conc. Valley Gutter Pavm't
—	66.9	LBS. REINFORCING STEEL

B.M. #6 R.R. Spk. in pwr. pole
29' Lt. Sta. 55+55 El. 141.62

$\Delta=0^{\circ}36'28''$ R = 11459.16T = 60.77 L = 121.53 LC = 121.53

CURVE DATA BASED ON $\Delta=0^{\circ}36'28''$ RAD. $\Delta/2=0^{\circ}18'14''$

STA.	ARC.	CHORD LENGTH	DEFLECTION	TOTAL DEFLECTION
55+72.23	—	—	0°00'00"	0°00'00"
55+75	2.77	2.76	0°00'25"	0°00'25"
56+00	25.00	24.93	0°03'25"	0°04'10"
56+25	25.00	24.93	0°03'25"	0°07'55"
56+50	25.00	24.93	0°03'25"	0°11'40"
56+75	25.00	24.93	0°03'25"	0°15'25"
56+93.76	18.77	18.00	0°02'49"	0°18'14"

DEF./FT. = 0.14 MIN.

$\Delta=0^{\circ}36'28''$ R = 11459.16T = 60.77 L = 121.53 LC = 121.53

CURVE DATA BASED ON $\Delta=0^{\circ}36'28''$ RAD. $\Delta/2=0^{\circ}18'14''$

STA.	ARC.	CHORD LENGTH	DEFLECTION	TOTAL DEFLECTION
59+02.24	—	—	0°00'00"	0°00'00"
59+25	22.76	22.82	0°03'25"	0°03'25"
59+50	25.00	25.07	0°03'45"	0°07'10"
59+75	25.00	25.07	0°03'45"	0°10'55"
60+00	25.00	25.07	0°03'45"	0°14'40"
60+23.77	23.77	23.83	0°03'34"	0°18'14"

DEF./FT. = 0.14 MIN.

CITY OF WICHITA

MAPLE STREET
PLAN VI

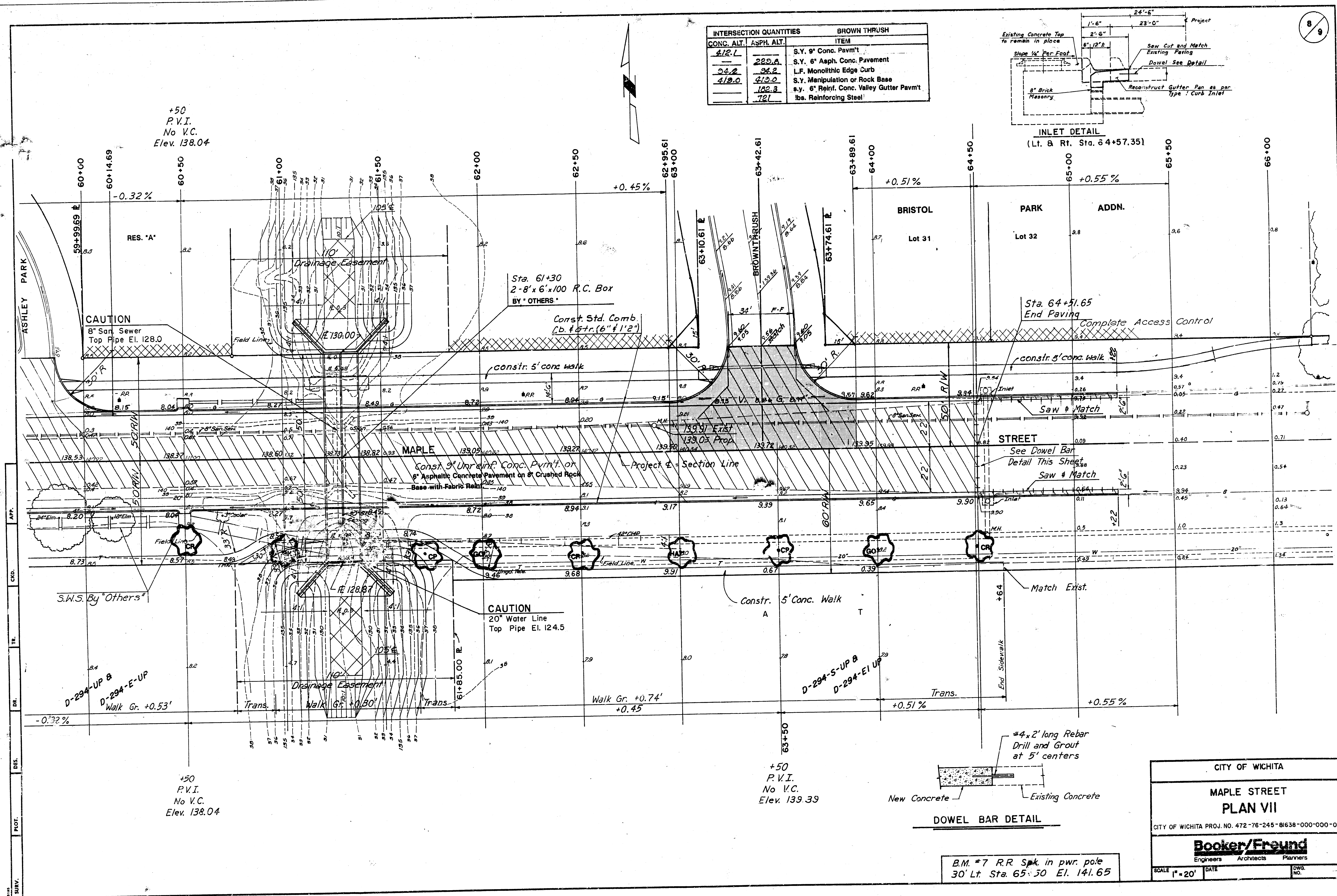
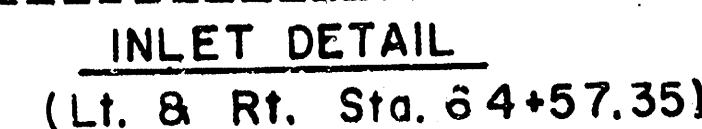
CITY OF WICHITA PROJ. NO. 472-76-245-81638-C00-000-001

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SCALE 1" = 20' DATE _____

Technical drawing of a gutter pan reconstruction. The drawing shows a cross-section of the gutter pan and its connection to the existing concrete top and paving. Key dimensions and labels include:

- Overall width: 24'-6"
- Width of existing concrete top: 1'-6"
- Width of gutter pan: 2'-6"
- Width of existing paving: 23'-0"
- Label: "Project" with an arrow pointing to the gutter pan.
- Label: "Existing Concrete Top to remain in place"
- Label: "Saw Cut and Match Existing Paving"
- Label: "Dowel See Detail"
- Label: "Slope 1/4" Per Foot"
- Label: "8" Brick Masonry"
- Label: "Reconstruct Gutter Pan as per Type 1 Curb Inlet"



GENERAL: THE ENTIRE DISTURBED AREA, EXCEPTING THE PAVED OR SURFACED AREAS, STEEP ROCKY SLOPES AND AREAS OF UNDISTURBED NATIVE SOIL OR OTHER DESIRABLE VEGETATION SHALL BE FERTILIZED (LIME WHEN REQUIRED), SEEDED, AND MULCHED. SOIL PREPARATION SHALL CONFORM TO THE STANDARD SPECIFICATIONS.

ALL BORROW AREAS SHOWN ON THE PLANS ARE TO BE FERTILIZED, SEEDED, AND MULCHED. HOWEVER, OPERATION IN BORROW AREAS WHERE CROPS ARE GROWING MAY BE OMITTED WHEN REQUESTED BY THE OWNER.

MULCHING: MULCH SHALL BE SPREAD UNIFORMLY OVER ALL DISTURBED AREAS AND PUNCHED INTO THE SOIL, UNLESS OTHERWISE NOTED ON THE PLANS. THE RATE OF APPLICATION PER ACRE, THICKNESS IN PLACE FOR THE VARIOUS MULCHING MATERIALS ARE AS FOLLOWS:

PRairie Hay Mulching	1 3/4 - 2 1/4 TONS PER ACRE	=	1 1/2" LOOSE DEPTH SPREAD UNIFORMLY OVER ACRE.
Brome Grass Mulching	1 3/4 - 2 1/4 TONS PER ACRE	=	1 1/2" LOOSE DEPTH SPREAD UNIFORMLY OVER ACRE.
Wheat or Oats Straw Mulching	1 1/2 - 2 TONS PER ACRE	=	3" LOOSE DEPTH SPREAD UNIFORMLY OVER ACRE.
WOOD CHIPS MULCHING	4 - 5 TONS PER ACRE	=	1 - 2" LOOSE DEPTH SPREAD UNIFORMLY OVER ACRE.
WOOD FIBER MULCHING	3/4 - 1 TON PER ACRE	=	SPREAD UNIFORMLY OVER ACRE.

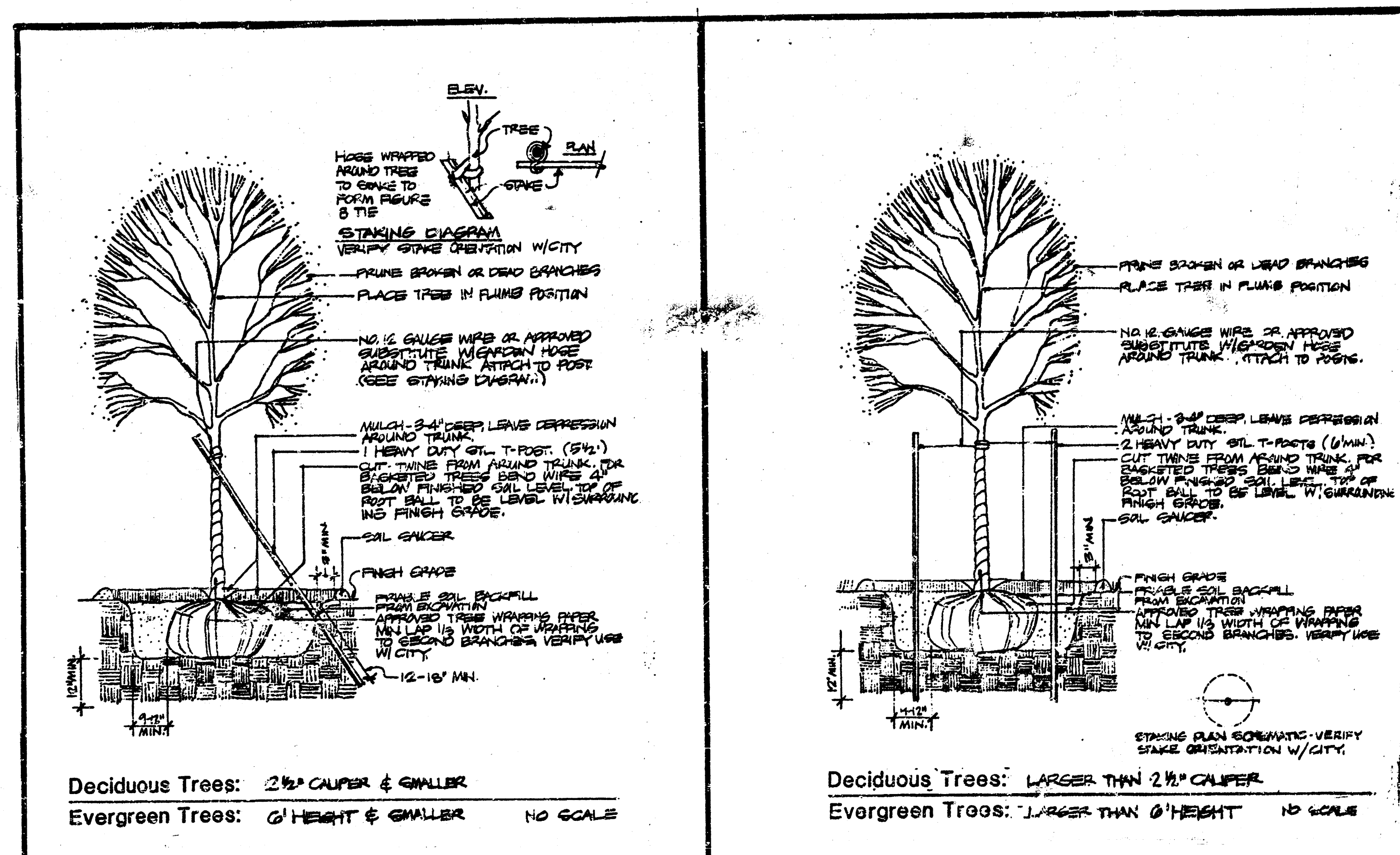
OTHER VEGETATIVE MULCHES (ACCEPTABLE ONLY WITH THE ENGINEER'S CONCURRENCE)

THE ABOVE RATES ARE A GUIDE. IT WILL BE AT THE DISCRETION OF THE ENGINEER TO DETERMINE WHAT RATE IS SUFFICIENT FOR ADEQUATE PROTECTION OF NEWLY SEEDS AREAS.

THE AMOUNT OF MULCH IN THE BID QUANTITIES IS ESTIMATED. THE TOTAL MULCH REQUIRED SHALL BE DETERMINED IN THE FIELD. THE BID ITEM FOR MULCHING SHALL BE PAID FOR BY ONE OF THE FOLLOWING METHODS: A. PLAN QUANTITY AS SHOWN ON SUMMARY OF QUANTITIES, SEEDING SHEET OR WATER POLLUTION CONTROL SHEET, B. SLOPE MEASUREMENT AS MEASURED IN FIELD, OR C. DRILL MEASUREMENT LESS 5% AS MEASURED AT THE TIME OF SEEDING.

FERTILIZER: A RATIO AND APPLICATION RATE THAT EQUALS OR EXCEEDS THE REQUIRED MINIMUM RATE PER ACRE OF N, P₂O₅, K₂O LISTED IN SUMMARY OF QUANTITIES WILL BE ACCEPTABLE.

SEEDING PERIOD: FEB. 15 TO APRIL 20 AND MAY 15 TO SEPT. 30		SOODING PERIOD: MARCH 1 TO JUNE 15 AND SEPT. 1 TO NOV. 15	
RATE	ACRES	BID QUANTITIES	UNIT
350 lb/Ac	2.5	Rebel R. Fescue Seed	lbs
350 lb/Ac	2.5	Fertilizer (2X, 24X, 12X)	lbs
	2.5	Mulching	Ac



NOTE: BALL OF PLANT TO BE KEPT MOIST & PROTECTED FROM DAMAGE PRIOR TO PLANTING. FERTILIZE SURFACE IMMEDIATELY AFTER PLANTING.

STATION	OFF-SET	TYPE	STATION	OFF-SET	TYPE
25+03	31'	Rt. Crabapple	41+80	36'	Rt. Golden Raintree
26+00	31'	Rt. Crabapple	44+20	36'	Rt. Crabapple
26+16	31'	Rt. Hawthorne	44+50	36'	Rt. Crabapple
26+50	31'	Rt. Chanticleer Pear	44+80	36'	Rt. Chanticleer Pear
26+50	31'	Rt. Hawthorne	45+10	36'	Rt. Golden Raintree
27+50	31'	Rt. Golden Raintree	45+40	36'	Rt. Crabapple
28+00	31'	Rt. Crabapple	47+00	30'	Rt. Hawthorne
28+30	31'	Rt. Crabapple	47+50	30'	Rt. Chanticleer Pear
28+50	31'	Rt. Hawthorne	47+50	36'	Rt. Hawthorne
28+63	31'	Rt. Hawthorne	47+50	36'	Rt. Chanticleer Pear
28+90	31'	Rt. Chanticleer Pear	48+00	30'	Rt. Golden Raintree
28+96	31'	Rt. Chanticleer Pear	48+30	36'	Rt. Golden Raintree
29+29	31'	Rt. Golden Raintree	48+50	44'	Rt. Crabapple
29+30	31'	Rt. Golden Raintree	48+70	36'	Rt. Crabapple
29+60	31'	Rt. Crabapple	49+00	44'	Rt. Hawthorne
29+62	31'	Rt. Hawthorne	49+30	36'	Rt. Hawthorne
29+95	31'	Rt. Chanticleer Pear	49+40	44'	Rt. Chanticleer Pear
30+22	31'	Rt. Crabapple	49+70	36'	Rt. Chanticleer Pear
30+70	31'	Rt. Golden Raintree	49+80	30'	Rt. Golden Raintree
30+90	31'	Rt. Crabapple	50+10	36'	Rt. Golden Raintree
31+00	31'	Rt. Hawthorne	50+15	30'	Rt. Crabapple
32+10	31'	Rt. Chanticleer Pear	50+50	36'	Rt. Crabapple
32+50	31'	Rt. Golden Raintree	50+50	30'	Rt. Hawthorne
32+90	32'	Rt. Crabapple	51+30	36'	Rt. Hawthorne
32+90	31'	Rt. Golden Raintree	51+50	36'	Rt. Chanticleer Pear
33+25	31'	Rt. Crabapple	52+00	36'	Rt. Golden Raintree
33+60	33'	Rt. Hawthorne	52+00	44'	Rt. Golden Raintree
33+93	33'	Rt. Golden Raintree	52+50	44'	Rt. Crabapple
34+00	30'	Rt. Hawthorne	52+50	36'	Rt. Crabapple
34+18	33'	Rt. Crabapple	52+87	36'	Rt. Hawthorne
34+30	30'	Rt. Chanticleer Pear	53+25	36'	Rt. Chanticleer Pear
34+60	30'	Rt. Crabapple	53+62	36'	Rt. Golden Raintree
34+75	34'	Rt. Chanticleer Pear	54+00	36'	Rt. Crabapple
34+90	29'	Rt. Hawthorne	55+50	36'	Rt. Hawthorne
35+20	29'	Rt. Golden Raintree	56+00	36'	Rt. Chanticleer Pear
35+20	35'	Rt. Crabapple	56+60	36'	Rt. Golden Raintree
35+50	28'	Rt. Hawthorne	57+00	36'	Rt. Hawthorne
35+60	35'	Rt. Hawthorne	57+50	36'	Rt. Chanticleer Pear
36+00	35'	Rt. Chanticleer Pear	58+00	39'	Rt. Golden Raintree
36+40	35'	Rt. Golden Raintree	58+50	39'	Rt. Crabapple
36+80	36'	Rt. Crabapple	59+00	39'	Rt. Hawthorne
37+20	36'	Rt. Crabapple	59+50	39'	Rt. Chanticleer Pear
37+60	36'	Rt. Chanticleer Pear	60+00	39'	Rt. Golden Raintree
38+00	36'	Rt. Golden Raintree	60+50	39'	Rt. Crabapple
38+40	36'	Rt. Crabapple	61+00	45'	Rt. Hawthorne
38+80	36'	Rt. Hawthorne	61+70	47'	Rt. Chanticleer Pear
40+70	36'	Rt. Chanticleer Pear	62+00	47'	Rt. Golden Raintree
40+92	36'	Rt. Golden Raintree	62+50	47'	Rt. Crabapple
41+14	36'	Rt. Crabapple	63+00	48'	Rt. Hawthorne
41+36	36'	Rt. Hawthorne	63+50	48'	Rt. Chanticleer Pear
41+58	36'	Rt. Chanticleer Pear	64+00	48'	Rt. Golden Raintree
			64+50	48'	Rt. Crabapple

COMMON NAME	BOTANICAL NAME
CP. CHANTICLEER PEAR	PYRUS CALLERYANA
GO. GOLDEN RAIN TREE	KOELREUTERIA PANICULATA
HA. HAWTHORNE	CRATAEGUS PHAENOPYRUM (Single Trunk)
CR. SNOWDRIFT CRABAPPLE	MALUS * SNOWDRIFT

TREE PLANTING SCHEDULE WITH DETAILS

PROJECT DESCRIPTION
MAPLE STREET
LANDSCAPING PLAN
PROJECT NUMBER
472-76-245-61638-000-000-001

INDEX NO. 706327