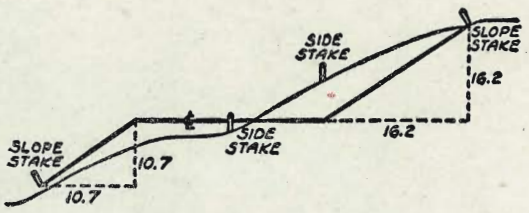


G-340
Grade



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
SLOPE 1 TO 1. ROADWAY OF ANY WIDTH

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0
1	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	1
2	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	2
3	3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	3
4	4.00	4.10	4.20	4.30	4.40	4.50	4.60	4.70	4.80	4.90	4
5	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	5
6	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	6
7	7.00	7.10	7.20	7.30	7.40	7.50	7.60	7.70	7.80	7.90	7
8	8.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90	8
9	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90	9
10	10.00	10.10	10.20	10.30	10.40	10.50	10.60	10.70	10.80	10.90	10
11	11.00	11.10	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90	11
12	12.00	12.10	12.20	12.30	12.40	12.50	12.60	12.70	12.80	12.90	12
13	13.00	13.10	13.20	13.30	13.40	13.50	13.60	13.70	13.80	13.90	13
14	14.00	14.10	14.20	14.30	14.40	14.50	14.60	14.70	14.80	14.90	14
15	15.00	15.10	15.20	15.30	15.40	15.50	15.60	15.70	15.80	15.90	15
16	16.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80	16.90	16
17	17.00	17.10	17.20	17.30	17.40	17.50	17.60	17.70	17.80	17.90	17
18	18.00	18.10	18.20	18.30	18.40	18.50	18.60	18.70	18.80	18.90	18
19	19.00	19.10	19.20	19.30	19.40	19.50	19.60	19.70	19.80	19.90	19
20	20.00	20.10	20.20	20.30	20.40	20.50	20.60	20.70	20.80	20.90	20
21	21.00	21.10	21.20	21.30	21.40	21.50	21.60	21.70	21.80	21.90	21
22	22.00	22.10	22.20	22.30	22.40	22.50	22.60	22.70	22.80	22.90	22
23	23.00	23.10	23.20	23.30	23.40	23.50	23.60	23.70	23.80	23.90	23
24	24.00	24.10	24.20	24.30	24.40	24.50	24.60	24.70	24.80	24.90	24
25	25.00	25.10	25.20	25.30	25.40	25.50	25.60	25.70	25.80	25.90	25
26	26.00	26.10	26.20	26.30	26.40	26.50	26.60	26.70	26.80	26.90	26
27	27.00	27.10	27.20	27.30	27.40	27.50	27.60	27.70	27.80	27.90	27
28	28.00	28.10	28.20	28.30	28.40	28.50	28.60	28.70	28.80	28.90	28
29	29.00	29.10	29.20	29.30	29.40	29.50	29.60	29.70	29.80	29.90	29
30	30.00	30.10	30.20	30.30	30.40	30.50	30.60	30.70	30.80	30.90	30
31	31.00	31.10	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90	31
32	32.00	32.10	32.20	32.30	32.40	32.50	32.60	32.70	32.80	32.90	32
33	33.00	33.10	33.20	33.30	33.40	33.50	33.60	33.70	33.80	33.90	33
34	34.00	34.10	34.20	34.30	34.40	34.50	34.60	34.70	34.80	34.90	34
35	35.00	35.10	35.20	35.30	35.40	35.50	35.60	35.70	35.80	35.90	35
36	36.00	36.10	36.20	36.30	36.40	36.50	36.60	36.70	36.80	36.90	36
37	37.00	37.10	37.20	37.30	37.40	37.50	37.60	37.70	37.80	37.90	37
38	38.00	38.10	38.20	38.30	38.40	38.50	38.60	38.70	38.80	38.90	38
39	39.00	39.10	39.20	39.30	39.40	39.50	39.60	39.70	39.80	39.90	39
40	40.00	40.10	40.20	40.30	40.40	40.50	40.60	40.70	40.80	40.90	40
41	41.00	41.10	41.20	41.30	41.40	41.50	41.60	41.70	41.80	41.90	41
42	42.00	42.10	42.20	42.30	42.40	42.50	42.60	42.70	42.80	42.90	42
43	43.00	43.10	43.20	43.30	43.40	43.50	43.60	43.70	43.80	43.90	43
44	44.00	44.10	44.20	44.30	44.40	44.50	44.60	44.70	44.80	44.90	44
45	45.00	45.10	45.20	45.30	45.40	45.50	45.60	45.70	45.80	45.90	45
46	46.00	46.10	46.20	46.30	46.40	46.50	46.60	46.70	46.80	46.90	46
47	47.00	47.10	47.20	47.30	47.40	47.50	47.60	47.70	47.80	47.90	47
48	48.00	48.10	48.20	48.30	48.40	48.50	48.60	48.70	48.80	48.90	48
49	49.00	49.10	49.20	49.30	49.40	49.50	49.60	49.70	49.80	49.90	49
50	50.00	50.10	50.20	50.30	50.40	50.50	50.60	50.70	50.80	50.90	50

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 to 1. If ground is nearly level, the out or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

MICROFILMED

APR 16 1965

DIRECTIONS FOR USE OF TABLES

TABLE No. XIV

Distance of slope stake from side or shoulder
stake for any width roadway, slope 1 1/2 to 1.
If ground is level, the cut or fill at side

IMPROVED TABLES
AND
INFORMATION

cut paper. If it does not make the right ad-
justment necessarily.

TABLE No. VIII

To find Tangent and External for curve of
any other degree divide by degree of curve and
add constant found in column of correction.
Degree of curve with a given L may be found
by dividing tangent (or external), opposite L by
given tangent (or external).

The distance from a point on the tangent to
the curve is very nearly the square of the tangent
length divided by twice the radius.

Law of Cosines: $c^2 = a^2 + b^2 - 2ab \cos C$
Law of Sines: $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$

PAGES

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DATE

Sec G-347

1-13 PAVING GRADES LITTLEFIELD ST.

14-35 PAVING GRADES FRANKFORT ST.

36-41 PAVING GRADES GARDENA AVE

42-53 PAVING GRADES GALVESTON ST.

54-57 PAVING GRADES ASHTON ST.

58-78 PAVING GRADES MILTON ST.

NOTE: Lt. & Rt. ①
 See DWG's. 11241-42 L Curb Rough
 sheets 17-18 Curb Curb
 (for H₂O & Sewer See G-325)

PAVING GRADES LITTLEFIELD ST.

0+75 17.22 16.93 16.93

32.32
 11.75
 Morena
 P.O.C. $\Delta = 66^{\circ} 34' 10''$ 15.04 15.04

13.78

TRANSFERRED TO G-347

P.O.C. $\Delta = 37^{\circ} 20' 54''$ 15.25 15.25

8.80

P.O.C. $\Delta = 18^{\circ} 40' 27''$ 15.50 15.50

8.79
 $\Delta = 66^{\circ} 33' 22''$ cb R = 27' L = 31.37"
 0+42⁶⁸ = E.C. SE. Cb. Ret. Morena 16.11 15.81 15.81
 Morena (see G-328)

0+00¹⁹ = E.C. NE. Cb. Ret. (cb. R = 34.42)

0+00 = Ety Line Littlefield St. ^{set Hub & Disk 28.20' Ety of} ~~E~~ Morena 14.64

B.M.

GRADES LITTLEFIELD ST.

Lt. E Rt. Rough^②
Curb Curb

2+25

22.36

22.00

22.00

2+00

21.52

21.14

21.14

1+75

20.66

20.30

20.30

3.370%

1+50

19.80

19.46

19.46

1+25

18.94

18.62

18.62

1+00

18.08

17.77

17.77

Lt.	±	Rt.	Curb	Curb Rough
-----	---	-----	------	---------------

GRADES LITTLEFIELD ST.

3+40.30 = ± Goldfield st.

3+61.77 Sewer Lat. No 24 Lt. 25' IN

	IN	IN
21.80		19.00
25		0

12.84

cb.R = 24.50

3+27.46 = E.C.N.E. Cb Ret. Chicago

25.11

P.O.C. A = 45° 29' 34"

25.02 25.02

5.40'

P.O.C. A = 30° 01' 23"

24.90 24.90

10.48

cb.R = 20.30 cb A = 45° 29' 34" L = 15.88'

3+02.30 = B.C. S.W. Cb Ret.
Littlefield & Goldfield

24.46 24.56 24.56

2+90 = ± Chicago N/4

21.45

2+75

23.74 23.67 23.67

2+50

23.05 22.83 22.83

Lt

E

Rt

Curb

Curb
Rough

GRADES LITTLEFIELD ST.

4+25

28.34

28.47

28.47

26.99

To 4+36⁵⁶

Change

~~4+18⁵⁶ Sewer lat. No 25 25 Rt. Moved~~~~21.30~~~~21.30~~~~23.80~~

25'

3+98⁵⁶ = 0+33.26

27.76

27.44

27.44

P.O.C. $\angle = 45^{\circ} 44'$

26.05

26.05

5.52'

P.O.C. $\angle = 30^{\circ} 01' 23''$

26.30

26.30

10.47

cb. R = 20' $\angle = 45^{\circ} 44'$ L = 15.99'

= 3+78.30 EC. 5 F. cb. Ref.

Goldfield St.

0+13.30

26.68

26.68

Lt.

±

Rt.

Curb

Curb

Curb
ROUGH

GRADES LITTLEFIELD ST.

5+80 = ± Goldfield NY

5+75

34.55

34.34

34.34

5+50

33.59

33.36

33.36

5+25

32.63

32.39

32.39

5+00

29.99

31.41

31.41

4+75

29.44

30.43

30.43

4+50

28.89

29.45

29.45

4+36 ⁵⁶ = S. Lat N° 25-25' Rt. ^{IN}

0+71.26

^{IN}
22.29
(Sewer)

^{IN}
23.9
25'

	Rough Curb	Lt. Curb	¢	Rt Curb	Rough Curb ⁽⁶⁾
GRADES LITTLEFIELD ST.					
7+25	40.72	40.72	40.22	40.21	40.21
7+00	39.71	39.71	39.27	39.23	39.23
6+75	38.70	38.70	38.32	38.25	38.25
6+50	37.68	37.68	37.37	37.28	37.28
31.47					
6+18 ⁵³ Begin Cb. Lt. (EXISTING)	36.49 (Meet)	36.49	36.18	36.04	36.04
6+00			35.49	35.32	35.32

Rough Lt.
Curb Curb

€

RT Rough
Curb Curb ⁽⁷⁾

GRADES LITTLEFIELD ST.

8+60.24 45.33 45.37 45.37

8+38.39 44.54 44.65 44.65

11.24

8+27.15 End of Lt. 44.85 (Meet) 44.85 44.11 44.21 44.21

8+00 43.75 43.75 43.08 43.14 43.14

7+75 42.74 42.74 42.13 42.17 42.17

7+50 41.73 41.73 41.18 41.19 41.19

	Rough Curb	Lt Curb	±	Curb Rt.	Rough [ⓑ] Curb
GRADES LITTLEFIELD ST.					
P.O.C. $\Delta = 24^{\circ} 27' 03''$ 8.54'				47.55	47.55
$\Delta = 48^{\circ} 54' 07''$ Cb.R. = 20' L = 17.07' 9+58 ⁰⁹ = E.C. SE Cb Ret. Littlefield & Lieta (NB+58.65) CBS Existing Matched			48.08	47.84	47.84
9+57 ⁵⁹ Begin Cb. on Lt.	48.25	48.25			
P.O.C. $\Delta = 48^{\circ} 48' 58''$ (Meet) 9+19.54 ±			46.93	45.99	45.99
P.O.C. $\Delta = 24^{\circ} 24' 29''$ 8.52				45.90	45.90
cb. $\Delta = 48^{\circ} 48' 58''$ Cb.R. = 20' L = 17.04' 8+82 ⁰⁹ = B.C. Cb. Ret. S.W. (NB+82.41) Littlefield & Lieta. CBS Existing Matched 21.85			45.92	45.82	45.82

	Lt. Curb Rough	Curb Curb	€	Rt Curb	Rough Curb
GRADES LITTLEFIELD ST.					
4=90° R=4' L=6.28' 10+53.59=B.C. S.W. Alley					
				51.25	51.25
4 10+45 3/4 Lt. 10+43 5/8 Rt					
	51.32	51.32	51.04	50.84	50.84
10+25			50.40	50.19	50.19
10+00			49.53	49.31	49.31
9+75 16.91			48.66	48.43	48.43
P.O.C Pt. 4 = 48°54'07" (Meet) 8.53				47.25	47.25

GRADES LITTLEFIELD ST.

Rough Lt
Curb Curb

€

rt.
Curb Curb
ROUGH

Littlefield
to Alley @
+7.07

52.42 52.42

B.C. Alley

52.36 52.36

4 = 90° R = 4' L = 6.28'

10+76.59 = E.C. S.E. Alley Ref.
Littlefield

52.36 52.36

10+65 31 Lt.

52.10 52.10

51.80

Also on grade
10+63 31 = Sewer Lat No 26
25' Lt.

47.2 46.2
25' S. Lat. Sewer

SW. Alley @ Littlefield

51.55 51.55

E.C. +7.05

10+62 31 Lt.
E.C. SW. Alley Ref.

51.50 51.50

	Rough Curb	Lt. Curb	±	Rt Curb	Rough Curb ⁽¹¹⁾
GRADES LITTLEFIELD					
P.O.C. A = 50°23'20" 8.80'				58.58	58.58
P.O.C. A = 25°11'40" 8.79				58.21	58.21
cb4 = 50°23'20" R = 20' L = 17.59' 11+72.13 = B.C. SW. Ch. Ret. Littlefield @ Narenci			58.37	57.77	57.77
11+53.16 = End Ch on Lt. (Match)	57.65	57.65			
11+25.31 Lt. 11+23.51 Rt.	55.62	55.62	55.15	54.76	54.76
11+05.31 Lt. 11+03.51 Rt.	54.26	54.26	53.86	53.55	53.55
10+85.31 Lt.	53.08	53.08	52.75		

GRADES LITTLEFIELD

Rough
Curb

Lt.
Curb

±

Rt.
Curb

Rough
Curb

13+00

65.18

65.18

64.46

63.69

63.69

27.49

12+72.51

65.05

65.05

64.08

63.54

63.54

12+52.51 Rt. Only

62.59

62.59

12+4

(Meet)

12+50.42 End Cb on Lt. @ Erie St.

64.13

64.13

P.O.C. $\theta = 50^{\circ}28'40''$

8.81

60.89

60.89

P.O.C. $\theta = 25^{\circ}19'30''$

8.81

61.42

61.42

cb. $\theta = 50^{\circ}28'40''$ R=20' L=17.62'

12+48.13 = E.C.S.E Cb Ret. Morenci
Littlefield

63.16

62.18

62.18

12+0.33 @ Erie Nly; @ Morenci Sly

60.81

Set PK. 30' Sly @ Littlefield and Morenci @ 90°
To Littlefield set line PK. 30' Nly

Road
Curb

Lt
Curb

±

Rt.

Curb

Road
Curb

GRADES LITTLE FIELD ST.

14+46.44 (N.W. Ch. Ret Frankfurt)

64.80

64.80

64.80

38.93

14+07.51

65.48

65.48

65.03

20

13+87.51

65.60

65.60

65.07

12.51

13+75.00

65.54

65.54

64.98

13+50.51

65.42

65.42

64.81

13+17.00 (N.W. Ch. Ret)

13+25.00

65.30

65.30

64.64

(13+21.70) (Meet End Ch on Rt)

63.82
Meet

63.82

PAVING GRADES FRANKFORT ST.; LITTLEFIELD
TO MILTON W.O. 32127

±

NOTE: ^{et} ± refers to ^{of New} Part to be Constructed ^{Rough} Curb

Curb

0+25

64.50

4.53
63.91
C0.62
63.91

P.O.C. End Ch. $\Delta = 46^{\circ}59'$
Littlefield

64¹²
only

64³⁰
5.60
64.00
C-1.60
64.00

P.O.C.

64⁰⁹
5.29
63.97
C-1.32
63.97

Ch. R=30' Ch. $\Delta = 46^{\circ}59'$ L=24.60
0+10.89 = E.C.N.E. Ch. Ret.
Frankfort & Littlefield

64.56

C 1.37
5.24
63.95
C-1.29
5.32
63.95
4'

Ch. R=30' Ch. $\Delta = 44^{\circ}$
0+00 = ± Littlefield & Frankfort.

64.60

B.M.

64.12

N.W. CP Frankfort & Garden

GRADES FRANKFORT ST.

±

±

Curb

Rough
Curb

1/4 P.O.C. $\Delta = 22^\circ 30'$

314
63.38
FO²⁴

63.38

11.78

1+56.78 = B.C. SE. Cb Ret.
Littlefield & Garden

64.00

352
63.54
FO⁰²

F 3.09
045
63.54
4' bk

31.78

1+25

64.12

361
63.63
FO⁰²

63.63

1+00

64.22

380
63.70
CO¹⁰

F 2.18
1.52
63.70

0+87 = S. Lat N^o 9-40' RT Δ 54.70

58.70
in

0+77 = W. Lat 16^o RT. Δ = 2' bk cb.

63.75

0+75

64.31

350
63.77
FO²⁷

63.77

0+50

64.41

395
63.84
CO¹⁴

F 0.19
3.65
63.84

GRADES FRANKFORT ST.

±

±

Curb
Rough

2+24.78

63.80

63.10
Gutter

2+06.78 ± Gardens

63.85

63.32
Gutter

63.32

1+88.78

63.90

63.10
Gutter

63.10
Gutter

= 0+04 Gardens
E.C. $\Delta = 90^\circ$

±

046
61.92
F146

61.92

11.78

3/4 P.O.C. $\Delta = 67^\circ 30'$

092
F164

063
62.56
F193

62.56

11.78

1/2 P.O.C. $\Delta = 45^\circ$

097
63.03
F206

63.03

11.78

GRADES FRANKFORT ST.

E

Rt.

Curb

Rough
Curb ⁽¹⁷⁾

0+30

63.48

2.90
63.18
F0²⁸

63.18

Gardenast
E.C. = 0+04 $\Delta = 90^\circ 00'$

1³²
F0⁸⁸

9.62
62.18
FR⁵⁶

62.18

11.78'

P.O.C. $\frac{3}{4} \Delta = 67^\circ 30'$

2⁰¹
F0⁶⁷

6.25
62.68
FR⁴³

62.68

11.78'

P.O.C. $\frac{1}{2} \Delta = 45^\circ$

2⁵⁷
F0⁵¹

0.72
63.10
FR³⁸ ?

63.10

11.78'

$\frac{1}{4}$ P.O.C. $\Delta = 22^\circ 30'$

2⁷⁵
F0⁵³

1.21
63.28
FR⁰⁹ ?

63.28

11.78'

Cb R = 30' $\Delta = 90^\circ L = 47.12'$
2+56.78 = E.C. N.E. Cb Rot = 0+10 Nly
Frankfort & Gardenast

63.60

2.21
63.25
F1⁰⁴

F 1.71
1.54
63.25
4' bk

GRADES FRANKFORT ST

±

RT.

Curb

Rough
Curb

1+50

62.09

1.95
61.98
FO²³

61.98

1+30 ✓

62.41

2.49
62.26
CO²³

C 3.30
5.56
62.26

1+10

62.68

2.71
62.52
CO¹⁹

62.52

0+90 ✓

62.92

2.89
62.73
CO¹⁶

C 1.57
4.30
62.73

0+70

63.11

3.02
62.92
CO¹⁰

62.92

0+50 ✓

63.29

3.06
63.07
FO⁰¹

FO.51
2.56
63.07

Rough
Curb

Rt. Curb

€

GRADES FRANKFORT ST.

C 3.65

3+00

59.26

9 40
59.35
C005

3 00
59.35

2+83 = 5. Lat. N° 8-40' - Rt. 48.10

63 44
55.90
C-7 54

2+75

60.73

9 78
59.79
F001

59.79

T.B.M. Set P.K. P.P.N° 2646
on Lt. opp. Sta 1+90 ±

62.32

C 4.57

2+50

60.21

0 13
60.23
F010

4.80
60.23

2+25

60.68

0 62
60.66
F004

60.66

C 3.97

2+00

61.16

0 98
61.10
F012

5 07
61.10

C 3.66

1+70

61.73

1 59
61.63
F007

5 29
61.63

GRADES FRANKFORT ST

±

Rt.
Curb

Rough
Curb

4+50

56.41

^{6 32}
56.72
F040

C 2.96
^{9 68}
56.72

4+25

56.88

^{6 53}
57.16
F063

57.16

4+00

57.36

^{7 21}
57.60
F039

C 2.70
^{0 30}
57.60

3+75

57.83

^{7 61}
58.03
F042

58.03

3+50

58.31

^{8 14}
58.47
F033

C 2.66
^{1 13}
58.47

3+25

58.78

^{8 63}
58.91
F028

58.91

GRADES FRANKFORT ST

€

Rt Curb

Curb Road

= 0+04 Ashton
P.E.C. $\Delta = 90^{\circ} 00' 54''$

8.37
56.29
C-208

56.29

10.18

3/4 P.O.C. $\Delta = 67^{\circ} 36' 10''$
10.77

7.91
55.70
C-221

55.70

1/2 P.O.C. $\Delta = 45^{\circ} 00' 27''$
10.78

6.98
55.38
C-160

55.38

1/4 P.O.C. $\Delta = 22^{\circ} 30' 13''$
10.77

5.79
55.39
C-040

55.39

Ch R = 30' $\Delta = 82^{\circ} 18' 54''$ $L = 43.10'$
5+19.29 = B.C. S.E. Ch. Ref -
Frankfort & Ashton

55.10

5.74
55.50
C-024

C 3.72

9.22
55.50
41.66

5+00

55.46

5.80
55.84
Foot

C 3.40

9.24
55.84

4+75

55.93

6.09
56.28
F019

56.28

GRADES FRANKFORT ST.

±

Rt. Curb

1/2 P.O.C. $\Delta = 45^{\circ}00'$

758
56.12 56.12
CP 46

11.78

1/4 P.O.C. $\Delta = 22^{\circ}30'$

680
56.05 56.05
CO 75

11.78'

Ashton St.
= E.L.N.E. Cb. Ret. $\Delta = 90^{\circ}$ cbr = 30'
6+19.44 = 0+10 L = 47.14'
N14

681
55.74 56.00 C 3 26
CO 81 9 26
56.00

5+89.44 = N1/4 Cb. Ashton St.

55.52 55.30
Gutter

5+69.44 ± Ashton St.

55.42 55.20
Gutter

5+49.44 = S1/4 Cb. Ashton

55.08 54.95
Gutter

GRADES FRANKFORT ST.

€

Rt. Curb

1+00

56.08

6 12
56.37
F0.25

C 5.03
1 40
56.37

0+75

55.99

6 49
56.27
C0.22

56.27

0+50

55.89

6 23
56.16
C0.07

C 3.82
9 98
56.16

0+30 = W. Lat. -16' Rt = 2' bk cb

5 9 63
56.08
C3.55

0+25

55.80

6 81
56.06
C0.75

56.06

0+20 = S. Lat. N° 13-40' Rt. 47.40

5 9 38
51.00
C8.38

= 0+04 Ashton
B.C. Ashton 4 = 90°00'

8 26
56.79
C-1.47

56.79

11.78'

3/4 P.O.C. 4 = 67°30'

7 68
56.32
C-1.36

56.32

11.78'

GRADES FRANKFORT ST.

±

Rt.

Curb

Rough
Curb

2+50

56.68

670
56.99
FOR9

1.06
803
56.99

2+25

56.55

666
66.88
FOR2

56.88

2+00

56.46

652
56.78
FOR6

3.37
015
56.78

1+75

56.36

639
56.68
FOR9

56.68

1+50

56.27

596
56.57
FOR1

4.13
070
56.57

1+25

56.18

642
56.47
FOR5

56.47

T.P.

55.87

55.85 2223, P.K. 11 P.P. No 2698 SW,
28 Cor Frankfort & Ashton

GRADES FRANKFORT ST.

←

Rt -

Curb

Rough Curb ⁽²⁵⁾

4+20

57.35

7.32
57.60

C 1.70

9.30

57.60

F008

3+80

57.25

7.04
57.50

C 2.12

9.62

57.50

F046

3+40

57.05

6.67
57.36

C 1.13

8.49

57.36

F069

3+20

56.94

6.80
57.30

57.30

F050

3+00

56.86

6.77
57.19

C 0.99

8.18

57.19

F042

2+75

56.73

6.76
57.09

57.09

F033

2+65± = W. Lat. - 28' - Lt 56.56
= 2' p/cb. Lt. Top cb elev.

GRADES FRANKFORT ST.

€ Rt. Curb Curb
Rough

P.O.C. 4 = 19° 27' 41"

811
57.55 57.55
0056

10.19'

L = 43.10 to A
cb R = 30' A = 82° 18' 54"
5+90 = B.C. SE. cb ref Orten
& Frankfort

806
57.57 57.57
0049 416R
C 3.47
1.04

5+80

57.49 57.60 57.60
805
0045

5+40

57.51 57.66 57.66
809
0043
C 2.98
0.64

set PK, PP No 2780
T.B.M. Sta 4+75 ± Lt. side st

58.01

5+00

57.59 57.68 57.68
914
0146
C 3.06
0.70

4+85 = S. Lat No 11-40' Rt. € 50.70
€

6047
52.70 57.66
0577 0.14
C 2.48

4+60

57.44 57.66 57.66
866
0100

4+45 = S. Lat. No 12-40' Rt. € 50.4
€

52.60
IN

Rough
Curb

Et. Curb

Et

GRADES FRANKFORT 57

6+60 = ^{5/4} Gutterline Ortenst.

56.82
Gutter

6+40 = Et Orten St.

57.15

56.90
Gutter

56.90

6+20 = ^{5/4} Gutterline Orten St.

57.30

56.98
Gutter

56.98

P.O.C. $\Delta = 82^{\circ}18'54''$

10.97'

9.41
57.75
C-1.66

57.75
R.

P.O.C. $\Delta = 61^{\circ}20'41''$

10.98'

8.75
57.55
C-1.20

57.55

P.O.C. $\Delta = 40^{\circ}24'45''$

10.97'

8.38
57.53
C-0.85

57.53

GRADES FRANKFORT ST

€

Rt. Curb Curb
Rough

0+25	56.90	758 57.14 C044	57.14
P.O.C. $\theta = 82^{\circ} 22' 20''$ Orten St.		930 57.84 C146	57.84
10.97'			
P.O.C. $\theta = 61^{\circ} 20' 41''$		906 57.50 C156	57.50
10.96			
P.O.C. $\theta = 40^{\circ} 24' 45''$		797 57.32 C065	57.32
10.97			
P.O.C. $\theta = 19^{\circ} 27' 41''$		741 57.25 C066	57.25
10.19			
L = 43.13'			C 2.23
0+10 = Cb. $\theta = 30' \theta = 82^{\circ} 22' 20''$		751	943
6+90 = E.C.N.E. Cb Ret. Orten & Frankfort	56.95	57.20 C031	57.20 4162

(29)
Rough
Curb

±

Rt. Curb

GRADES FRANKFORT ST.

1+75

56.34

724
56.59
C065

56.59

1+50

56.43

721³¹
56.69
C052

C3.61
0.30
56.69

1+25

56.53

730
56.79
C051

56.79

1+00

56.62

701
56.88
C013

C3.38
0.26
56.88

0+75

56.71

726
56.98
C028

56.98

0+50

56.81

738
57.08
C030

C2.36
0.44
57.08

GRADES FRANKFORT ST

€

Rt-
Curb

Curb
Road

3+25

55.77

691
56.00 56.00
C091

3+20 = 5. Lot, No 16-40' Rt. € 46.00^{IN}
€

9112 6212
51.00
40'

3+00

55.87

731
56.10 56.10
C121

C 5.82

1.92

2+75

55.96

718
56.20 56.20
C098

C 5.81

2+50

56.06

706
56.29 56.29
C077

2.10

2+25

56.15

700
56.39 56.39
C061

C 4.47

2+00

56.24

711
56.49 56.49
C062

0.96

TBM

57.01 - 57.01

PPN# 285 2 2223

Sta 2+96.47 39

± RT Curb Curb Rough

GRADES FRANKFORT ST.

3+72 = Sly Gutter Napier Ely.

55.97 56.00 Gutter

= 0+00 Napier St. Ely
P.O.C. P. Napier St. $\Delta = 82^{\circ} 18' 54''$

9 6 9
57.35 57.35
02-34

11.68'

P.O.C. $\Delta = 60^{\circ} 03' 54''$

9 9 3
56.30 56.30
0.3 63
9 8 3
56.00 7.33
0.3 76 0.4 0 9

11.67' $\Delta = 53^{\circ} 03' 21''$

\downarrow Δ Type G. Ch. Inlet
P.O.C. $\Delta = 37^{\circ} 46' 37''$

55.34 C-8.55
46.79 Δ at tag
37.10
1.2
4' Inlet Elev.

57.5 0.7 2 7
48.38
18.55
59.89 C-9.89
50.00 C-6.05
F.L. 18"
R.C.P.

9 8 9 #6
55.80 C-4.29 C-4.23
54.97 grate
C-4.22 C-5.08
8 6 7 7.99
55.85 C-2.22 C-3.21

11.68' $\Delta = 22^{\circ} 29' 53''$

P.O.C. $\Delta = 15^{\circ} 28' 12''$

8 5 3
55.87 55.87
C-2.64

8.10

3+42 = B.C. S.F. Ch. Ret. Napier & Frankfort St.

55.71

6 2 8 8 5 7
C-9.27 55.91
0.2 6 6
C 5.93
7.84
55.91
4.16

$\Delta = 52.2958'$

±

Rt-Curb

Curb
Rough

GRADES FRANKFORT ST.

P.O.C. Δ = 60°03'54"
11.66

884
56.40
C-246

56.40

P.O.C. Δ = 37°46'37"
11.67

627
55.90
C-037

55.90

P.O.C. Δ = 15°28'12"
8.10

592
55.62
C-030

55.62

0+08 Ahead
= 4+38 = E.C. NE Cb Ref. Napier &
Frankfort St.

55.24

574
55.49
C-027

3.72
9.21
55.49
416K

4+08 = N/4 Gutter Line Napier Ely

55.70

55.80
Gutter

3+90 ± Napier St. Ely

56.00

56.10
Gutter

€

Rt

Corb
Corb
Rough

GRADES FRANKFORT ST.

1+25

54.33

490
54.61
C029

54.61

1+00

54.53

491
54.80
C011

64.46
9.26
54.80

0+75

54.72

514
54.99
C015

54.99

0+50

54.91

533
55.17
C016

64.40
9.57
55.17

0+25

55.10

550
55.36
C019

55.36

= 0+00 Napier St Ely.
POC. R & = 82°18'54"

849
57.25
C124

57.25
R

11.68'

GRADES FRANKFORT ST

€

Rt.

Corb

Corb
Rough

2+75

53.18

²³⁷
53.49
F113

53.49

NOTE: Check Plans for €

2+65 = S. Lat. No 14-40' Rt € 48.1
€

⁵⁵³¹
49.3
C.6.01

2+50

53.37

³⁰⁸
53.67
F059

C3.24
6.91
53.67

2+25

53.56

⁴⁰¹
53.86
C05

53.86

2+00

53.76

⁴¹⁹
54.05
C014

C423
8.28
54.05

1+75

53.95

⁴³¹
54.24
C007

54.24

1+50

54.14

⁴⁶⁷
54.42
C025

C4.66
9.08
54.42

Road
Curb

Rt Curb

E

GRADES FRANKFORT ST.

B.M.	52.43	52.44 S.W. B.P.		
E.C. Milton St. $\Delta = 90^\circ$		Frankfort & Milton	²⁷⁸ F103	^{3 58} 53.82 F024
14.98'				
P.O.C. $\Delta = 61^\circ 23'$				^{3 77} 53.38
10.98				C039
P.O.C. $\Delta = 40^\circ 24' 45''$				^{3 82} 53.07
10.97				C075
P.O.C. $\Delta = 19^\circ 27' 41''$				^{3 62} 52.96
10.19				C064
$\Delta = 90^\circ$ cbr = 30' L = 47.12				^{3 22} 53.00
3+40 = B.C. SE. Cb. Ref.	52.68			C022
Milton & Frankfort				4 53 53.00 4/bk
3+25		52.80		^{2 34} 53.11
				F077
3+15 = W. Lat. 16' Rt. = 2' b R Cb				53.19
3+00				TOP Cb.
TP	59.21			^{2 52} 53.30
2+80 = W. Lat 16' - Rt = 2' b R Cb				F078
				53.45
				TOP Cb.

PAVING GRADES GARDENA ST.

lt.
Rough
Curb

£

rt.
Curb

Curb
Rough

1+00 ^{2.10 = 4'} 57.41 ^{7.44} 57.41 57.30 ^{7.93} 57.28 ^{60.45} 57.28

0+80 ^{C034} 58.10 ^{8.44} 58.10 ^{7.99} 58.01 ^{8.56} 58.00 ^{60.56} 58.00

0+60 58.90 ^{8.57} 58.90 ^{F033} 58.80 ^{9.27} 58.79 ^{60.48} 58.79

0+44 = 5. Lat N^o 17-40' ^{IN} Rt. of £ ^{IN} C0⁹⁵ 49.80 ^{IN} 54.70 ^{IN} F0.11

0+40 60.06 ¹¹ 60.06 ^{9.57} 59.95 ^{F049} 59.93 ^{9.75} 59.93 ^{F018} 59.93

0+16 61.50 ^{0.50} 61.50 ^{F150} 61.33 ^{0.60} 61.25 ^{61.25} 61.25

0+04 ^{1.55 F06} 62.18 ^{1.32} 62.18 ^{F026} 61.92 ^{0.46} 61.92 ^{0.54} 61.92 ^{F14} 61.92

0+00 = E. Line Frankfort St. 62.40 62.40 62.48 62.15 62.15

B. M. 64.12 NW BP. Frankfort & Gardena

GRADES GARDENA ST.

ST. Lt. Curb
Curb
Rough

Rt. Curb

Rough Curb

cb R = 4' 4" = 90° L = 6.28'

1 + 68.78 = E.C. NE Alley Ret

C08
598 533
55.04 55.04
C039

54.89

537
54.83
C054
525
54.83

TBM Set PK. RT. PPN 443.99 5547

E.C. + 16' = Alley @ Pt.

56.27 663
56.27 1/100 c/s face
C036

E.C. Alley

55.95 611
55.95
C016

cb R = 4' 4" = 90°

1 + 40.78 = B.C. NW Alley Ret

C101
701 611
56.00 56.00
C011

55.88

641
55.83
C058
681
55.83

1 + 26 = S. Lat. No 18-40 RT

729
50.10 51.60
C-6.69

1 + 25

C08
739 657
56.55 56.55
C002

56.42

687
56.39
C048
726
56.39

1 + 16 = W. Lat. 22' RT. = 2' BR Cb.
TOP Cb Grade

770
56.71
C029

Roadly
Curb

Lt
Curb

±

Rt.
Curb

Curb
Roadly

GRADES GARDENA ST.

+4.60

E.C. Galveston $\Delta = 61^{\circ} 58'$

1.97
52.20
Fo²³
C²¹
4.27
52.20

P.O.C. 2/3 $\Delta = 41^{\circ} 58'$

10.84

2.27
52.75
Fo⁴⁸
52.75

P.O.C. 1/3 $\Delta = 20^{\circ} 59'$

10.83

3.15
53.30
Fo¹⁵
53.30

Cb R = 30' $\Delta = 61^{\circ} 58'$ L =
1 + 96.14 = B.C. SW. Cb Ret.
Galveston St.

C¹²⁸
53.8
4.64
54.10
54.10
C⁰⁵⁴

53.92

C⁰⁴⁷
3.92
53.85
C⁰⁰⁷
53.85

27.36

BC + 16' = R. & NE.
Alley Line

55.58
55.58
C⁰⁴²
6.00
9/100 c/f face

B.C. NE. Alley Ret

5.33
55.26
55.26
C⁰⁰⁷

GRADES GARDENA AVE

Rough
Curb Lt
Curb

t

rt

Curb
ROUGH

Curb

P.O.C. $\Delta = 18^\circ 26' 57''$

50.55 50.55
149
C024

9.66

C205

cbR = 30° $\Delta = 90^\circ$

2+91.56 = B.C. N.W. Ch Ret. Galveston

2.88 166
50.83 50.83
C083

50.52

2+75 (Lt. only)

C12
H. 33 182
51.40 51.40
C072

51.13

C1.71

2+50 (Lt. only)

397 258
52.26 52.26
C032

52.02

2+25 (Lt. only)

C15
H. 456 374
53.11 53.11
C063

52.90

28.86

E.C. + 460 Tan. = R

173
52.03
F030

52.03

GRADES GARDENA AVE

Rough
Curb Curb

Lt. E

Rt.
Curb

Curb
Rough

P.O.C. $\Delta = 21^\circ 15' 24''$

0.54
50.35
C019

50.35

11.13

cb B = 30' $\Delta = 70^\circ 31' 52''$
3 + 0.4' = B.C. S.E. Ch Ret Gardena
& Galveston

0.32
50.02
C030

F4.47
5.55
50.02
Boot

E.C. Galveston $\Delta = 90^\circ 00'$

50.45 50.45
104
C059

10.19'

P.O.C. $\Delta = 70^\circ 31' 52''$

50.20 50.20
109
C089

8.81'

P.O.C. $\Delta = 53^\circ 42' 19''$

50.15 50.15
115
C100

8.80'

P.O.C. $\Delta = 36^\circ 53' 55''$

50.30 50.30
163
C133

9.66'

GRADES GARDENA AVE

Curb Lt

€

Rt Curb

Curb Rough

B.M.

51.27 NW # Ripe Gardena & Galveston

3+69.55 End Cb on Rt.

48.58

810
47.83
C027

F3.38
4.45
47.83

Set RP Hub

3+39.55 = € Galveston St.

49.30

907
48.61
C046

F63
2.29 15m
48.61

End Cb.

P.O.C. # 4 = 70°31'52"

835
50.30
F195

F45
43.84
50.30

11.84

P.O.C. # 4 = 47°55'06"

045
50.45
G

50.45

13.96

PAVING GRADES GALVESTON ST.

Rough
Curb A
Curb

±

Rt.
Curb Curb
Rough

0+30

51.18

176
51.18
C058

50.89

120
50.68
C052

50.68

P.O.C. $\Delta = 53^{\circ}05'39''$

982
49.10
C072

49.10

8.80

P.O.C. $\Delta = 36^{\circ}17'14''$

024
49.38
C086

49.38

8.81

P.O.C. $\Delta = 19^{\circ}27'53''$

019
49.65
C054

49.65

10.19

CBR=30' $\Delta = 53^{\circ}33'26''$ L=27.80

0+10 = E.C. N.E. Ch Ref Galveston

50.45

164
50.45
C059

50.21

059
50.04
C054

50.04

C2.17

0+00 = Nly Line Gardena Ave

2.37
50.20

50.20

49.87

49.65

018
49.65

B.M.

51.27

NW Δ Pipe Gardena & Galveston

GRADES GALVESTON ST.

Rough
Curb

Corb

Lt.

±

Rt.

Curb

Curb
Rough

1+50

57.13

6.9
57.13
F0.44

56.84

6.1
56.63
F0.22

56.63

1+30

C1.00
6.90
55.90

5.94
55.90
C-0.08

55.61

5.32
55.40
F0.08

F3.54
1.86
55.40

1+10

54.77

4.63
54.77
F0.14

54.48

4.67
54.27
C0.42

54.27

0+95=W. Lat. 20' Lt
= 2' br cb.

54.00
Top Cb.

C1.46

54.00

0+90

51.9
53.73

3.97
53.73
C0.24

53.44

3.80
53.23
C0.57

F1.85
1.38
53.23

0+70

52.79

3.26
52.79
C0.47

52.50

2.90
52.29
C0.61

52.29

0+50

C1.92
3.85
51.93

2.35
51.93
C0.42

51.64

1.70
51.43
C0.27

F0.64
0.79
51.43

GRADES GALVESTON ST.

Rough Lt
Curb

Curb

±

Rt.
Curb

Curb
Rough

Station	Grade	Rough Lt Curb	Curb	±	Rt. Curb	Curb Rough
3+00		C 1 96 9 25 67.29	7.06 67.29	67.00	684 66.79	F 1 79 5.00 66.79
			F 0 23		C 0 95	
2+75		65.59	4.86 65.59	65.30	4.64 65.09	65.09
			F 0 73		F 0 45	
TP. 2+50 Lt	64.21	C 0 32 4 21 63.89	2.86 63.89	63.60	2.91 63.38	F 1.82 1.56 63.38
2+50			F 1.03		F 0 47	
2+25		62.18	1.19 62.18	61.89	1.08 61.18	61.68
			F 1.00		F 0 10	
2+00		F 0.14 34 60.48 4.68	9.39 60.48	60.19	9.55 59.98	F 2.06 7.92 59.98
			F 1.09		F 0.43	
1+70		✓ C 0 14 8 58 58.44	7.58 58.44	58.15	7.65 57.94	F 4.24 3.70 57.94
			F 0 86		F 0 29	
TP.		55.36				

GRADES GALVESTON ST.		Rough Curb	Lt Curb	±	Rt-Curb	Rough Curb ⁽⁴⁵⁾
4+50		76.80	6.89 76.80 C0.09	76.53	5.65 76.35 F0.70	76.35
4+30		CO.53 6.36 75.83	6.03 75.83 C0.20	75.55	4.74 75.35 F0.61	F1.34 4.01 75.35
4+10		74.70	5.22 74.70 C0.52	74.41	4.05 74.21 F0.16	74.21
3+90		CO.96 4.38 73.42	3.90 73.42 C0.48	73.13	3.54 72.92 C-0.62	F1.45 1.47 72.92
TP. 5th 3+50 Lt	72.83					
3+75		72.40	2.86 72.40 C0.46	72.11	2.36 71.90 C-0.46	71.90
3+50	6.809%	CO.13 2.83 70.70	1.12 70.70 C-0.42	70.41	0.86 70.19 C0.57	F1.26 8.93 70.19
3+25		68.99	9.19 68.99 C-0.20	68.70	8.34 68.49 F0.15	68.49

GRADES GALVESTON ST.

T.B.M. 81.63

P.O.C. $\angle = 36^{\circ} 16' 06''$

8.80

P.O.C. $\angle = 19^{\circ} 27' 41''$

10.19

$\angle = 90^{\circ}$ Cb R = 30' L = 47.12'
5+19.43 = B.C. SW. Cb Ret.
Galveston & Ashton

5+014 = W. Lat. 20' Lt.
= 2' BR. Cb.

5+10

5+014 = W. Lat. 20' Lt.
= 2' BR. Cb.

4+90

4+70

4+574 = W. Lat. 20' Lt.
= 2' BR. Cb.

Rough Lt.
Curb Curb

79.38 79.38
9.23
FO 15

79.22 79.22
9.03
FO 19

F1 54
7.46 8.98
79.00 79.00
FO 02

78.78 78.78
8.82
FO 04

78.28 78.28
8.20
FO 08

FO 59
7.03 7.56
77.62 77.62
FO 06

77.10

±

Rt.
Curb

Rough Curb

Top "x2" Hub RP 50'E Consty
& Ashton

78.82

78.59

78.56

78.06

77.37

CO. 32
9.22 9.06
78.74 78.74
C-048

866
78.49 78.49
C-013

746
77.92 77.92
FO 16

F1.25
6.60 5.96
77.21 77.21
FO 01

GRADES GALVESTON ST.

Corb. Lt
Rough Curb

±

Rt. Corb

Rough Curb

set RP Hub 50' E. of New ±
5+69.43 Rt. Cb = ± Ashton

80.20

F-0²¹
79.98
9.37

(2.09)
2.07
79.98

5+49.43 Rt Cb

79.62

F-0²²
79.48
9.16

79.48

5+29.43 Rt Cb

79.10

8.98
78.98
Grade

78.98

E.C. Ashton, ± = 90°00'

78.41 848
78.41
C007

9.66

P.O.C. ± = 71°32'36"

78.95 8.77
78.95
F018

9.66

P.O.C. ± = 53°05'39"

79.30 9.12
79.30
F018

8.81

T.B.M.

80.16

Top (Hus) Cross NW Cb. Rad Ctr
Frankfort & Ashton

Rough Lt.
Curb. Curb

E

Rt

Curb
Rough

GRADES GALVESTON ST.

P.O.C. 4 = 71° 32' 36" 79.56 ⁹⁹⁰ 79.56 ₈₀₃₄

9.66

P.O.C. 4 = 53° 05' 39" 80.17 ⁰⁸⁶ 80.17 ₈₀₆₉

8.81

P.O.C. 4 = 36° 16' 06" 80.56 ¹³⁷ 80.56 ₈₀₈₁

8.80

80.07

83.24
422
80.98
R

P.O.C. 4 = 19° 27' 41" 80.89 ⁰⁹⁶ 80.89 ₈₀₈₉
¹⁵⁸
⁸⁰⁸⁹
⁶⁹

10.19

80.18

80.85

= 0+10 Nly. Cbr = 30' 4" = 90° L = 47.12
6+19 ⁴³ = E.C. N.W. Cb. Ref.
Ashton & Galveston

⁰⁹⁶ 81.14 ¹⁹⁵ 81.14 ₈₀₈₁

81.20

81.23
0.38

81.23

5789 ⁴³ Rt. Cb.

80.60

80.48
0.37

80.48

GRADES GALVESTON ST.

Curb Lt.
Rough Curb

±

Rt.
Curb

Curb
Rough

1+10

82.74 82.74

3.81
82.89
C-0.92

F-0.14
83.12
2.98
83.12

0+90

F1.14
1.40
82.54 82.54

3.69
82.67
C-1.02

F-0.58
82.88
2.30
C 4.96
7.84
82.88

0+70

82.29 82.29

3.26
82.39
C-0.82

F-0.53
82.58
1.75
82.58

0+50

C 0.37
2.31
81.94 81.94

2.88
82.02
C-0.86

F-0.68
82.18
1.50
C 4.07
6.25
82.18

0+30

C 0.15
2.31
81.56 81.56

2.42
81.60
C-0.82

F-0.30
81.72
1.42
C 4.53
6.55
81.72

B.C. Ashton ± = 90°00'

8.87
78.92 78.92
F-0.05

9.66'

GRADES GALVESTON ST.

	Rough Curb	Lt Curb	±	Rt Curb	Curb Rough
2+30	82.47	F-0 ⁰⁵ 82.47 2.42	82.68	3.02 82.97 C-0 ⁰⁵	82.97
2+10	F0 ⁷³ 1.95 82.68	F-0 ⁰⁹ 82.68 2.59	82.88	3.38 83.17 C-0 ²¹	C4.65 7.82 83.17
1+90	82.83	F-0 ²⁰ 82.83 2.63	83.03	4.65 83.31 C-1 ³⁴	83.31
1+70	F2.45 0.46 82.91	3.25 82.91 C-0 ³⁴	83.10	F-0 ¹⁹ 83.38 3.19	C4.45 7.83 83.38
1+50	82.91	3.32 82.91 C-0 ⁴¹	83.09	F-0 ²⁹ 83.36 3.07	83.36
1+30	F0 ⁰² 2.84 82.86	3.65 82.86 C-0 ²⁹	83.03	F-0 ³⁹ 83.28 2.89	C4.88 8.16 83.28

Rough Lt
Curb Curb

±

Rt
Curb

Curb
Rough

GRADES GALVESTON ST.

3+80	F1.70 8.92 80.62	F0 ⁴⁴ 80.62 0.18	80.83	F-0 ²⁰ 81.12 0.92	C 2.94 3.56 81.12
------	------------------------	-----------------------------------	-------	------------------------------------	-------------------------

3+50	F1.59 9.40 80.99	F0 ²⁰ 80.99 0.69	81.20	F-0 ²⁶ 81.49 1.23	C 2.94 4.43 81.49
------	------------------------	-----------------------------------	-------	------------------------------------	-------------------------

3+25	81.30	F0 ⁴³ 81.30 0.87	81.51	F-0 ¹⁵ 81.80 1.65	81.80
------	-------	-----------------------------------	-------	------------------------------------	-------

3+00	F1.57 0.09 81.61	F0 ³¹ 81.61 1.30	81.82	F-0 ²³ 82.11 1.88	C 3.33 5.44 82.11
------	------------------------	-----------------------------------	-------	------------------------------------	-------------------------

2+75	81.91	F0 ¹⁶ 81.91 1.75	82.12	F-0 ³⁰ 82.41 2.11	82.41
------	-------	-----------------------------------	-------	------------------------------------	-------

2+50	F0.83 1.39 82.22	F0 ²⁵ 82.22 1.91	82.43	F-0 ³² 82.72 2.35	C 3.76 6.48 82.72
------	------------------------	-----------------------------------	-------	------------------------------------	-------------------------

GRADES GALVESTON ST.

Rough Lt
Curb Curb

±

Rt
Curb

Rough
Curb

5+25

F1³³
79.52 79.52
8.19

79.73

F0⁷⁷
80.02
9.23

80.02

5+00

F2.87
6.78 F0⁵⁷
79.65 79.65
9.08

79.86

F0⁸³
80.15
9.32

F0.90
9.25
80.15

4+75

F1²²
79.77 79.77
8.55

79.98

F0⁵¹
80.27
9.70

80.27

4+50

F0⁶³
9.27 F0⁶⁹
79.90 79.90
9.21

80.11

F0¹²
80.40
0.28

C1.55
1.95
80.40

4+30

F0⁴⁶
80.04 80.04
9.58

80.25

0.66
80.54
C0¹²

80.54

4+10

F0.69
9.36 F0³⁸
80.25 80.25
9.87

80.46

F0¹⁷
80.75
0.58

C2.57
3.32
80.75

30

T.B.M. Set R.R. pp No 2766 80.68
Sta 3+50 - Lt.

GRADES GALVESTON ST.

Curb Lt
Rough Curb

±

Rt.
Curb Curb
Rough

T.B.M. 75.70 Top SW. Rad. Hub Frankfurt & Orten

T.B.M. 82.07 Top SE FH. Frankfurt & Orten

= 6+00 on Rt = End of Cb.
P.O.C. R. 4 = 19° 28' 16"
F2.64
6.48 F-0.41
79.12 79.12 79.50
8.71

10.19'

cb. R = 30' 4" = 19° 28' 16" L = 10.19'
5+90 = B.C. S.W. Cb. Ref. Orten
& Galveston.
F-0.39
79.20 79.20 79.48
8.81 F-0.46
79.85 79.85
9.39

5+80 79.25 79.25 79.46 79.75 79.75

30'

5+50 F3.26
8.14 F-1.48
79.40 79.40 79.61
7.92 F-0.53
79.90 79.90
9.38 F0.92
8.98

PAVING GRADES ASHTON ST.; FRANKFORT

TO GALVESTON ST. W.O. 32/27 Lt

±

Rt.

Rough

Curb
Rough Curb

Curb Curb

0+75 62.08 ²¹³ 60²⁵ 173 60¹⁵ 61.58

0+50 60.93 ¹⁰⁷ 60.14 ⁰⁸⁷ 60¹⁴ ^{60⁷³} 0¹⁰ 60¹⁶ 1.54
1.18
59.64
2'6k

17'

0+33 58.82 ⁹⁴² 60⁶⁰ 941 61⁰⁹ 58.32

17'

0+16 57.50 ⁸⁰² 60⁵² 57.25 ⁷³⁵ 60³⁵ 57.00

0+00 = Ely Line Frankfort St.

B.M.

BM

55.87 P.K. P.P.N. 2698 2223
56³⁶ S.E. BP. Frankfort to Ashton 28

GRADES ASHTON ST.

	Corb	Lt	ϕ	Rt	Corb
	C 2 02				C 0 71
$\Delta = 90^\circ$ cb R = 4' L = 6.28' 1 + 69 = E.C. NE. & SE. Alley Ret's.	1.38 69.36	944 60.08			911 60.24 9.58 68.87
Lt. Rt. N.W. P. & S.W. P. & Alley Line	67.91	774. F017	$\frac{1}{10}$ cb face		766 60.25 67.41
EC + 16'					
EC. cb Ret's $\Delta = 90^\circ$	67.59	710 F049			648 F061 67.09
	C 0 51				C 1 01
$\Delta = 90^\circ$ cb R = 4' L = 6.28' 1 + 41 = B.C. cb. Ret's Lt. & Rt. @ Alley	7.71 67.20	710 F010			648 F022 7.71 66.70
16'					
1 + 25	65.96	600 60.24			529 F017 65.46
	C 0 19				C 1 44
1 + 00	4.21 64.02	386 F016			330 F022 4.96 63.52
T.B.M.	63.87				
					Top upper Conc Ret Wall 0 + 90 ± 45' - Rt

GRADES ASHTON ST.

Corb. Lt. E Rt. Corb

		C 1.76					C 1.06
		7.36	586			557	6.22
2+50		75.66	CO 20			CO 41	75.16

			328			344	
2+25		73.71	FO 23			CO 22	73.22

		FO 03					C 0.92
		1.74	136			153	2.20
2+00		71.77	FO 41			CO 25	71.28

			052			039	
15							
1+85		70.60	FO 08			CO 28	70.11

			052			039	
16							
Lt. Rt.			139	67		925	
N.E. & S.E. R. & Alley Line		69.46	C 1.23	100' cd/face		CO 79	68.96

B.C. + 16'							
			944			911	
Lt. Rt. $\angle = 90^\circ$							
B.C. N.E. & S.E. Alley Refs.		69.13	CO 31			CO 46	68.64

T.B.M.		71.74		Top Cms / Cross 2+00-45' Lt.			
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lt
Curb

t

rt

Curb

GRADES ASHTON ST.

T.B. M.

80.17

80.16

(see pg 47)
Top N.W. Ck. 15 / Cross Cb. R. ctr.

Cl. 12

0.04

887

78.92

F005

2+92 = BC. Cb. Refs. Lt. & Rt.
Ashton of Galveston

848

C007

F 1.37

7.04

78.41

2+75

77.60

742

C012

742

C037

77.10

PAVING GRADES MILTON ST; MORENA
TO ILLION ST. W.O. 32127

	Rough Curb	Lt Curb	±	Rt. Curb	Rough Curb
0+75	473 14.00 C07	428 14.00 C028		428 14.07 C021	629 ²⁴ 14.07 C28
0+50	419 13.25 C02	343 13.25 C018		337 13.30 C007	583 ²⁴ 13.30 C25
P.O.C. $\Delta = 41^\circ 48' 25''$	309 11.91 C12	104 11.91 ^{59' offset} 100 F087		140 12.33 F093	465 12.33 ^{72' offset} C23
10.95					
P.O.C. $\Delta = 20^\circ 54' 12''$	10.94	141 12.11 ^{47' offset} 100 F070		156 12.30 F074	12.30 ^{4' offset} C23
114.59156 $cb, e = 30'$ $\Delta = 41^\circ 48' 25''$ $L = 21.89'$					
0+20 = E.C. NE. & SE. Cb. Ret's	309 12.36 C07	199 12.36 ^{4' offset} 100 F037		203 12.37 F034	465 12.37 ^{5' offset} C23
0+00 = E.L. line Morena					
B.M.		42.03			

S.W. BP. Erie & Milton

GRADES MILTON ST.

N.E. & ALLEY

Rough Lt.
Curb Curb
16.48 16.48
5/10 c/s face C-1 53

E.C.+16'

E.C. Alley

6 25
16.16 16.16
C009

$\Delta=90^\circ$ cb R=4' L=6.28'
1+48.88 = E.C.N.E. Alley Cb. Ret.

7 90 6 25
16.70 16.20
C17 C025

6.33 8 71
16.36 16.36
F003 C24

N. P. & ALLEY

6 52
15.88 15.88
5/10 c/s face C064

E.C.+16'

E.C. Alley

5 75
15.56 15.56
C019

cb. R=4' $\Delta=90^\circ$ L=6.28'
1+20.88 = B.C.N.W. Alley Cb. Ret.

6 84 5 75
15.36 15.36
C15 C039

5.54 7 93
15.49 15.49
C005 C24

1+00

5 81 5 00
14.74 14.74
C11 C026

5 00 7 40 3104
14.84 14.84
C016 C26

GRADES MILTON ST.

	Curb Rough	Lt Curb	€	€	rt. Curb	Curb ROUGH
P.O.C. $\Delta = 36^\circ 28' 42''$	20.07	⁹⁶⁷ 20.07 F070				
8.91						
P.O.C. $\Delta = 19^\circ 27' 41''$	19.80	⁹⁴⁹ 19.80 F031				
10.19						
$\Delta = 90^\circ$ Ch. R = 30' L = 47.12'	⁰⁵⁵	⁹²³			⁹⁵⁷	²¹⁷⁵
2+59.76 = B.C.N.W. Ch. Ref. Chicago	19.50 012	19.50 F027			19.78 F021	19.78 C22
29.76						
2+30	^{18inst} 094 18.61 023	859 18.61 F002			857 18.87 F030	2074 18.87 C12
2+00	²⁹³ 17.72 C12	780 17.72 C008			747 17.94 F017	960 ³¹⁴⁴ 17.94 C13
1+75	⁸⁵⁷ 16.98 C14	708 16.98 C012			690 17.16 F026	946 ³¹⁴⁴ 17.16 C23
26.12						

GRADES MILTON ST.

Corb Lt
Rough Corb

€

Rt.
Corb

Rough
Corb

3+30 (Rt. only)

1.32
21.61
Fo 29

2.88
21.61
C-13

3+00 (Rt. only)

0.51
20.86
Fo 35

2.60
20.86
C-12

2+80 (Rt. only)

9.91
20.36
Fo 45

2.36
20.36
C-20

E.C. & = 90°00'

20.43 0.31
20.43
Fo 12

10.19

P.O.C. & =

70°31'52"

20.38 0.05
20.38
Fo 33

8.91

P.O.C. & =

53°30'52"

20.26 0.09
20.26
Fo 17

8.92

GRADES MILTON ST.

Curb
Rough Lt
Curb

E

Rt
Curb

Curb
Rough

B.C. Chicago $\Delta = 90^\circ$

20.94 ²⁶¹
20.94
C167

10.19'

P.O.C. $\Delta = 70^\circ 31' 52''$

21.12 ²⁰⁰
21.12
C088

8.91'

P.O.C. $\Delta = 53^\circ 30' 52''$

21.32 ¹⁶¹
21.32
C029

8.92'

P.O.C. $\Delta = 36^\circ 28' 42''$

21.58 ¹⁶⁶
21.58
C008

8.91'

P.O.C. $\Delta = 19^\circ 27' 41''$

21.88 ¹⁸⁴
21.88
F004

10.19'

$\Delta = 90^\circ$ Cb R = 30' L = 47.12'

3 + 59.76 = 0 + 10 Ahead = E.C. NE. Cb. Ref
Chicago

22.25 ³⁸¹
22.25 ¹⁹⁹
C16 F026

240
22.44
F004

396
22.44
C15

GRADES MILTON ST.

	Rough Lt Curb	lt Curb	€	Rt. Curb	Rough Curb
N. # 8 ALLEY N.W. E.C. + 16'	26.65 1/20 face	6.80 26.65 Co 15			
E.C. Alley	26.33	6.00 26.33 Fo 33			
4 = 90° Cb. R = 4' L = 6.28' 1 + 20 83 = B.C. N.W. ALLEY Cb. Ret.	6.88 26.11 Co 8	6.00 26.11 Fo 11		5.58 26.22 Fo 14	8.29 26.22 Co 20
1 + 00	on prop 6.35 25.39 Co 10	4.97 25.39 Fo 42		5.34 25.51 Fo 17	7.34 25.51 Co 18
0 + 75	on prop 5.71 24.52 Co 12	4.24 24.52 Fo 38		4.48 24.66 Fo 18	6.69 24.66 Co 20
0 + 50	on prop 5.24 23.64 Co 16	3.30 23.64 Fo 34		3.64 23.80 Fo 16	5.69 23.80 Co 18
0 + 25	4.59 22.77 Co 18	2.69 22.77 Fo 08		3.05 22.95 Co 10	4.64 22.95 Co 12
15'					

±

GRADES MILTON ST.

Corb Lt
ROUGH

Corb

Rt.
Corb

Corb
ROUGH

2+30

0 71
29.92
C08

9 80
29.92
F013

9 13
29.94
F081

0 93
29.94
C12

2+00

0 28
28.87
C11

8 59
28.87
F028

8 26
28.92
F066

0 23
28.92
C13

1+75

8 58
28.00
C06

7 61
28.00
F039

6 96
28.07
F111

9 37
28.07
C13

N. R. & Alley N.E.
E.C. +16'

27.35
5/10 c/c 100

5 79
27.35
F156

B.C. Alley

27.03

6 94
27.03
F009

4 = 90° Cb, R = 4' L = 6.28'
1 + 48 83 = E.C. N.E. Alley Cb, Ret.

7 40
27.09
C03

6 94
27.09
F015

6 39
27.17
F078

8 56
27.17
C14

GRADES MILTON ST.

Curb Lt. Rough

Curb E

Rt. Curb

Rough Curb

E.C. A = 90°00'

31.95

189
31.95
F006

10.19'

P.O.C. A = 70°31'52"

31.90

194
31.90
C004

8.91

P.O.C. A = 53°30'52"

31.78

195
31.78
C017

8.92'

P.O.C. A = 36°28'42"

31.57

193
31.57
C036

8.91

P.O.C. A = 19°27'41"

31.32

134
31.32
C002

10.19'

A = 90° Cb. R = 30' L = 47.12'
2 + 59.92 = B.C.N.W. Cb. Ret.
Denver St.

069
30.95
F03

052
30.95
F043

997
30.96
F099

198
30.96
C12

29.92

GRADES MILTON ST.

Rough Lt.
Curb

Curb. $\frac{1}{2}$

Rt.
Curb

Curb
Rough

P.O.C. A = 36°28'42"

163
32.95
F132

~~390~~
~~32.83~~
C085

8.91'

P.O.C. A = 19°27'41"

171
33.19
F-148

~~386~~
~~33.19~~
C067

10.19.

4=90°cb R=30' L=47.12'
3+59.92=0+10 Ahead = E.C.NE.
cb. Ret. Denver St.

589
33.49
C23

314
~~33.49~~
F633

339
33.49
F013

483
33.49
C13

3+30 (Rt. Only)

208
32.73
F068

414
32.73
C14

3+00 (Rt. Only)

109
32.01
F092

346
32.01
C15

2+80 (Rt. Only)

064
31.54
F020

279
31.54
C14

		LT.	€	RT	(67)
		Curb Rough	Curb	Curb	Curb Rough
GRADES MILTON ST.					
0+75		⁶²⁵ 35.37 C08	⁴⁷³ 35.37 F064	⁴²⁸ 35.37 F089 F109	⁶⁷⁵ 35.37 C12
0+50		⁵⁸⁰ 34.65 C13	³⁹⁷ 34.65 F068	³⁸⁸ 34.65 F077	⁵⁹³ 34.65 C13
0+25		⁵¹³ 33.92 C13	³⁹¹ 33.92 F001	³⁸² 33.92 F010	⁵¹⁵ 33.92 C12
15'					
N.E. Ch. Ret. B.C. Denver. $\Delta = 90^\circ$		²⁶⁴ 32.45 C019	²⁴⁶ met 32.45		
10.19'					
P.O.C. $\Delta = 70^\circ 31' 52''$		³⁰⁶ 32.58 C048	¹⁵⁸ 32.58 F100		
8.91'					
P.O.C. $\Delta = 53^\circ 30' 52''$		³⁴³ 32.74 C069	¹⁶³ 32.74 F113		
8.92'					

	Rough Lt. Curb	€ Curb	Rt. Curb	€ Curb Rough
GRADES MILTON ST.				
NE. P & Alley	37.80	860 37.80		
B.C. + 16'	$\frac{43}{100}$ c/face	€02		
B.C. Alley N.E.	37.48	757 37.48		
		€02		
$\angle = 90^\circ$ Ch. R = 1' L = 6.28'	8 23	757	681	899
1 + 48 $\frac{96}{100}$ = E.C. N.E. Alley Ret.	37.51	37.51	37.51	37.51
	€12	€006	F02	C15
N.W. P & Alley	37.22	794 37.22		
E.C. + 16'	$\frac{21}{100}$ c/face	€022		
E.C. Alley	36.90	668 36.90		
		F022		
$\angle = 90^\circ$ Ch. R = 4' L = 6.28'	8 29	668	549	837
1 + 20 $\frac{96}{100}$ = B.C. N.W. Alley Ret.	36.70	36.70	36.70	36.70
	C15	F003	F12	C12
1 + 00	7 75	544	528	754
	36.10	36.10	36.10	36.10
	C16	F064	F082	C14

GRADES MILTON ST.

Curb Lt
Rough

Curb
‡

Rt.
Curb

Curb
Rough

P.O.C. $\Delta = 36^{\circ}28'42''$

41.11

¹²⁰
41.11
C009

8.91

P.O.C. $\Delta = 19^{\circ}27'41''$

40.90

¹⁰⁴
40.90
C014

10.19

$\Delta = 90^{\circ}$ CBR=30' L=47.12

2+59.92=B.C.N.W.Ch.Ret. Erie St.

²³¹
40.71
C16

⁰⁷⁶
40.71
C005

^{76 revis}
40.71 40.71

2+30

¹⁹¹
39.85
C12 C21

⁹⁹⁴
39.85
C009

⁹⁵²
39.85 41.67
F033 C18

2+00

⁹⁸⁸
38.98
C09

⁹⁰⁹
38.98
C011

⁸²⁹
38.98 40.78
F069 C18

1+75

⁹⁰⁸
38.26
C08

⁸⁸⁸
38.26
C062

⁷⁴⁵
38.26 9.63
F081 C14

26.04

GRADES MILTON ST.

P.O.C. $\angle = 36^{\circ} 28' 42''$

Curb Lt
Rough

42.28

Curb \angle

3 07
42.28
C029

Rt.
Curb

Curb
Rough

(70)

8.91

P.O.C. $\angle = 19^{\circ} 27' 41''$

42.50

2 76
42.50
C026

10.19.

3+59.92 = 0+10 Ahead = E.C.N.E.
Cb. Ret. ERIE ST.

4 95
42.85
C21

2 90
42.85
C005

43.05
(Existing)

E.C.N.W. Cb. Ret. $\angle = 90^{\circ} 00'$
ERIE ST.

2 31
41.70
C16

41.70

10.19

P.O.C. $\angle = 70^{\circ} 31' 52''$

41.47

3 01 ⁰⁰²
41.47
C154

8.91

P.O.C. $\angle = 53^{\circ} 30' 52''$

41.20

2 75
41.20
C155

8.92

BM

14203 SWB.P.
Erie & Milton St.

Lt

Rt

(71)

Curb
ROUGH

Curb

Rt
Curb

Curb
ROUGH

GRADES MILTON ST.

0+75	6 41 45.14 C13	5 01 45.14 FO13	4 81 45.08 FO27	6 96 45.08 C19
------	----------------------	-----------------------	-----------------------	----------------------

0+50	5 82 44.26 C16	4 11 44.26 FO15	4 33 44.23 CO10	6 36 44.23 C24
------	----------------------	-----------------------	-----------------------	----------------------

0+25	5 37 43.38 C20	3 18 43.38 FO20	3 60 43.38 CO22	5 71 43.38 C23
------	----------------------	-----------------------	-----------------------	----------------------

15'

B.C.N.E.Cb.Ret. Erie St. $\Delta = 90^\circ$	4 95 42.20 C27	2 10 42.20 C27		
--	----------------------	----------------------	--	--

10.19

P.O.C. $\Delta = 70^\circ 31' 52''$	42.10	3 05 42.10 CO93		
-------------------------------------	-------	-----------------------	--	--

8.91

P.O.C. $\Delta = 53^\circ 30' 52''$	42.12	3 68 42.12 C100		
-------------------------------------	-------	-----------------------	--	--

8.92

GRADES MILTON ST.

	Rough Lt. Curb	Curb	±	Rt. Curb	Rough Curb
		5020			
NE # Alley	48.00	48.00			
	^{5/16} cbr	C22			
BC + 16'	F0.43				
	725	774			
B.C. Alley	47.68	47.68			
		C02			
± = 90° cbr R = 4' L = 6.28'	9 05	774		774	8 72
1 + 48.88 = F.C. NE Alley Ret.	47.74	47.74		47.59	47.59
	C13	G		C03	C14
		850			
NW # Alley	47.30	47.30			
	^{1/16} cbr	C12			
EC + 16'	F0.68				
	6.30	662			
E.C. Alley	46.98	46.98			
		F036			
± = 90° cbr R = 4' L = 6.28'	8 75	662		670	8 84
1 + 20.88 = B.C. N.W. Alley Ret.	46.76	46.76		46.64	46.64
	C2	F04		C06	C23
	7 38	592		6 00	7 70
1 ± 00	46.02	46.02		45.93	45.93
	C12	F0		C07	C18

GRADES MILTON ST.

P.O.C. 4 = 36° 28' 42"

Rough Lt
Curb

Curb

Rt
Curb

Curb
Rough

52.20

1.70
52.20
F030

8.91'

P.O.C. 4 = 19° 27' 41"

51.82

1.66
51.82
F016

10.19'

4703/32 Cb. R = 30' L = 47.12'
• 2+59.76 = B.C. N.W. Cb. Ret.
Frankfort St.

3.29
51.41
C12

1.43
51.41
C002

51.02

51.02
2+49.75 B.C. Cb
S.W. Match.

2+30

3.74
50.56
C34

0.73
50.56
C017

0.30
50.35
F005

0.36
50.35
G

2+17 = S. Lat. N° 3-40' Lt.

45.10 IN
40' Lt

43.50 IN

2+00

2.17
49.52
C26

2.70
49.52
C018

9.43
49.33
C010

0.47
49.33
C1

1+75

1.94
48.65
C33

8.65
48.65
G

8.60
48.48
C012

9.46
48.48
G1E

26.12

GRADES MILTON ST.

Rough Lt. Curb Curb ±

Rt. Curb Rough Curb

P.O.C. $\Delta = 53^{\circ}30'52''$

53.90

^{5 45}
53.90
_{C-1 55}

8.92'

P.O.C. $\Delta = 36^{\circ}28'42''$

53.87

^{4 22}
53.87
_{C 0 35}

8.91'

P.O.C. $\Delta =$

54.00

^{3 93}
54.00
_{F 0 07}

10.19'

$\Delta = 70^{\circ}31'52''$ NE.
O+10 = E.C. NE. Cb. Ret. Frankfort.
O+04 = E.C. S.E. Cb Ret. Frankfort.
(see Pg 35) ($\Delta = 90^{\circ}$)

^{6 00}
54.28
_{C 1 7}

^{4 31}
54.28
_{C 0 03}

⁰⁰⁷
^{52 19} ^{3 58} ^{4 54}
53.82 53.82
_{F 10 3 F 0 24} (see Pg 35)
for Cb Ret.

P.O.C. $\Delta = 70^{\circ}31'52''$
Frankfort.

^{3 29}
53.03
_{C 0 3}

^{3 33}
53.03
_{F 0 30}

^{2 28}
_{F 0 25}

8.91

P.O.C. $\Delta = 53^{\circ}30'52''$

52.62

^{1 70}
52.62
_{F 0 92}

8.92

GRADES MILTON ST.

cbR=4'4"=90°L=6'28"
I+20.94 B.C. Alley Ret's. N.W. & S.E

Lt
Curb
ROUGH

£
Curb

Rt.
Curb
ROUGH

	8 31	7 76	7 76	0 20
	57.72	57.72	57.80	57.80
	C06	C009	F009	C21

	7 88	7 23	6 85	8 74
I+05	57.00	57.00	57.00	57.00
	C09	C023	F015	C17

	7 42	6 59	6 05	7 24
0+85	56.35	56.35	56.25	56.25
	C14	C024	F020	C17

30'

	6 69	5 46	5 16	7 12
0+55	55.52	55.52	55.35	55.35
	C12	F007	F020	C18

30'

	6 10 H2	4 73	4 35	5 84
0+25	54.69	54.69	54.45	54.45
	C14	C004	F010	C14

0+15 = S. Lat. N°4-40' Rt.

P.O.C. R. 4 = 70°31'52"

8.91'

6 00
54.05
C22

5 72
54.05
C167

47.90

55 62
49.20
40' Rt.
C642

GRADES MILTON ST.

	Curb Lt. Rough	Curb Lt.	Curb Rt. Rough	Curb Rt.
1+65	1 07 60.60 C05	0 93 60.60 C033	0 80 60.80 G	2 67 60.80 C19
NE & SE R & Alley BC + 16'	59.50 <i>5/10 06 R. co</i>	9 59 59.50 C009	61 77 59.60 C217	59.60 <i>5/10 06 R. co</i>
B.C. NE & SE Alley Ref's.	59.18	9 50 59.18 C032	9 60 59.28 C032	59.28
$\theta = 90^\circ$ CBR = 4' L = 6.28' 1+48.94 = E.C. NE & SE Alley Ref's	8 99 59.36 F04	9 50 59.36 C014	9 60 59.52 C008	1 56 59.52 C23
N.W. & S.W. R & Alley E.C. + 16'	58.30 <i>5/10 06 R. co</i>	7 73 58.30 F057	9 87 58.40 C147	58.40 <i>5/10 06 R. co</i>
E.C. Alley N.W. & S.E	57.98	7 76 57.98 F033	7 76 58.08 F032	58.08

	Rough Curb	LT.	Curb	±	Rt. Curb	Rough Curb 77
GRADES MILTON ST.						
P.O.C. $\angle = 33^{\circ}49'25''$	72.37		^{1.97} 72.37		^{4.62} 73.20	73.20
9.61			F040		C142	
P.O.C. $\angle = 15^{\circ}28'12''$	71.50		^{1.06} 71.50		^{2.02} 72.00	72.00
8.10			F044		C002	
$\angle = 70^{\circ}31'52''$ Ch. R = 30' L = 36.93' 2 + 61.88 = B.C. NW 4 S. W. Ch. Ret's, Galveston	^{68.35} 70.76		^{0.37} 70.76		^{0.92} 71.13	^{74.11} 71.13
	F24		F039		F021	C32
2 + 35	^{6.76} 67.73		^{7.48} 67.73		^{8.24} 68.18	^{0.85} 68.18
	F07		F025		C006	C27
30'						
2 + 05	^{4.14} 64.50		^{4.40} 64.50		^{4.51} 64.90	^{7.14} 64.90
	F02		F010		F039	C22
1 + 85	^{2.51} 62.40		^{2.56} 62.40		^{2.34} 62.60	^{4.47} 62.60
	C01		C016		F026	C19

GRADES MILTON ST.

Lt
Curb
Rough

Curb

Rt
Curb

(78)
Curb
Rough

CONT'D IN G-344

Galveston
P.O.C. $\phi = 70^{\circ} 31' 52''$

48 31
73.21
F42

261
73.21
F060

598 74 11
75.32 75.32
C063 F12

9.61

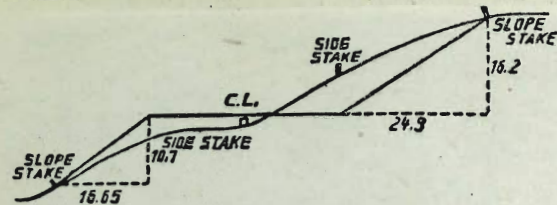
P.O.C. $\phi = 52^{\circ} 10' 38''$

72.98

219
72.98
F072

548
74.32 74.32
C116

9.61



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	2
3	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	3
4	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7.50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9.00	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85	7
8	12.00	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13.50	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85	9
10	15.00	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	10
11	16.50	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	11
12	18.00	18.15	18.30	18.45	18.60	18.75	18.90	19.05	19.20	19.35	12
13	19.50	19.65	19.80	19.95	20.10	20.25	20.40	20.55	20.70	20.85	13
14	21.00	21.15	21.30	21.45	21.60	21.75	21.90	22.05	22.20	22.35	14
15	22.50	22.65	22.80	22.95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24.15	24.30	24.45	24.60	24.75	24.90	25.05	25.20	25.35	16
17	25.50	25.65	25.80	25.95	26.10	26.25	26.40	26.55	26.70	26.85	17
18	27.00	27.15	27.30	27.45	27.60	27.75	27.90	28.05	28.20	28.35	18
19	28.50	28.65	28.80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30.00	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31.50	31.65	31.80	31.95	32.10	32.25	32.40	32.55	32.70	32.85	21
22	33.00	33.15	33.30	33.45	33.60	33.75	33.90	34.05	34.20	34.35	22
23	34.50	34.65	34.80	34.95	35.10	35.25	35.40	35.55	35.70	35.85	23
24	36.00	36.15	36.30	36.45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37.80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39.00	39.15	39.30	39.45	39.60	39.75	39.90	40.05	40.20	40.35	26
27	40.50	40.65	40.80	40.95	41.10	41.25	41.40	41.55	41.70	41.85	27
28	42.00	42.15	42.30	42.45	42.60	42.75	42.90	43.05	43.20	43.35	28
29	43.50	43.65	43.80	43.95	44.10	44.25	44.40	44.55	44.70	44.85	29
30	45.00	45.15	45.30	45.45	45.60	45.75	45.90	46.05	46.20	46.35	30
31	46.50	46.65	46.80	46.95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48.00	48.15	48.30	48.45	48.60	48.75	48.90	49.05	49.20	49.35	32
33	49.50	49.65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51.00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
35	52.50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54.00	54.15	54.30	54.45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55.50	55.65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57.45	57.60	57.75	57.90	58.05	58.20	58.35	38
39	58.50	58.65	58.80	58.95	59.10	59.25	59.40	59.55	59.70	59.85	39
40	60.00	60.15	60.30	60.45	60.60	60.75	60.90	61.05	61.20	61.35	40
41	61.50	61.65	61.80	61.95	62.10	62.25	62.40	62.55	62.70	62.85	41
42	63.00	63.15	63.30	63.45	63.60	63.75	63.90	64.05	64.20	64.35	42
43	64.50	64.65	64.80	64.95	65.10	65.25	65.40	65.55	65.70	65.85	43
44	66.00	66.15	66.30	66.45	66.60	66.75	66.90	67.05	67.20	67.35	44
45	67.50	67.65	67.80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69.00	69.15	69.30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70.50	70.65	70.80	70.95	71.10	71.25	71.40	71.55	71.70	71.85	47
48	72.00	72.15	72.30	72.45	72.60	72.75	72.90	73.05	73.20	73.35	48
49	73.50	73.65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

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