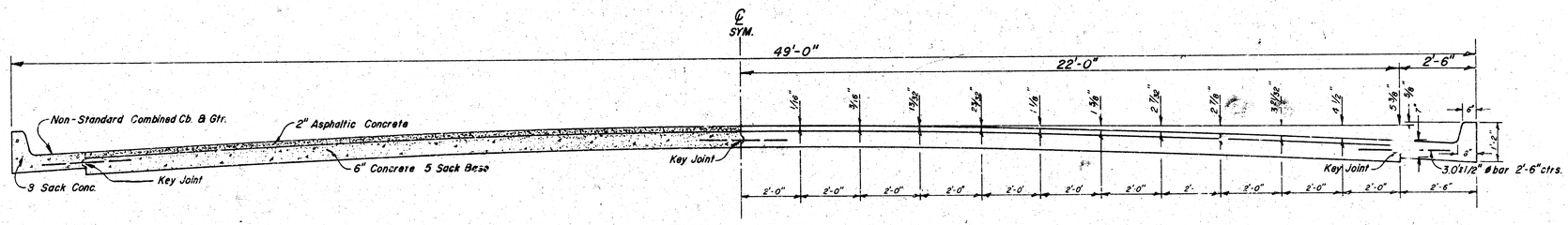
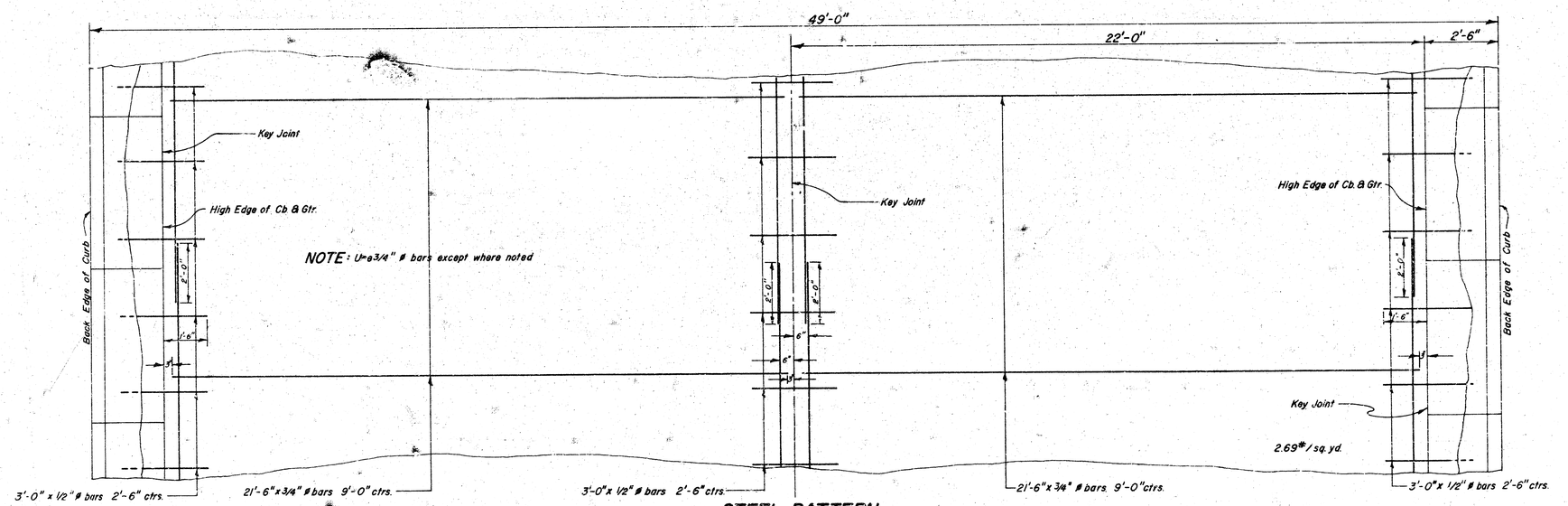
21st STREET

E.L. RIDGEWOOD — E.L. WOODLAWN

C 18-4



TYPICAL SECTION
Scale 1"=2'-0"



STEEL PATTERN
Scale 1" = 2'-0"

B.M.: 209.69 S.R.R. Spike East Side Large Hedge Tree 55' N. of ℄ 21st STR. at ¼ Sec. Line E. of OLIVER.
B.M.: 204.79 "O" in N. End West Headwall of Entrance Culvert N. Side 21st STR. ℄ 200' W. of EDGEMOOR.

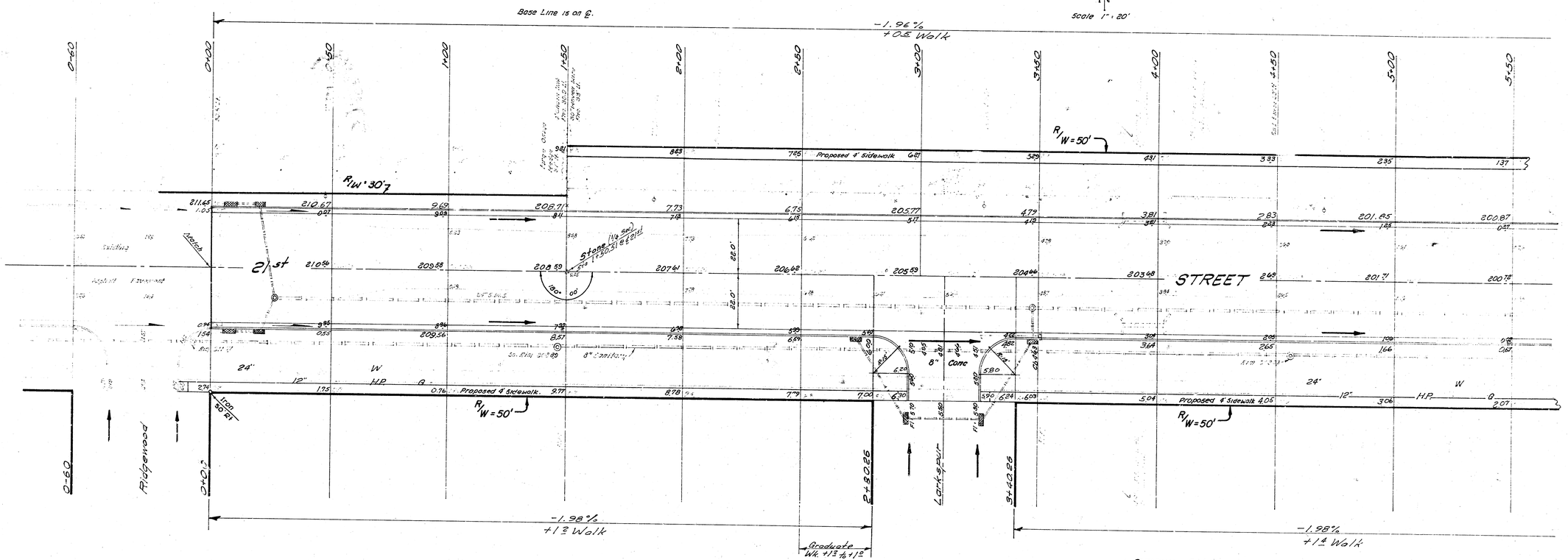
NOTE: Field Eng to re-check ties to Section Corner Stones and replace with iron. Install Thimble in Pavement.

Ties to ¼ Sec. Stone. Sta 1+50.51
49.50' N.W. to nail in bottle cap on E. Side 10" Elm tree.
53.05' N. to ¾" iron pipe, in ground on E. Side Large Osage Hedge.
47.48 N.E. to nail in bottle cap. S.E. Side Bell pole.

Base Line is on ℄.

N

Scale 1" = 20'



EXCAVATION

8,247.2 Cu yds
A.C. Mat 510.0 " "
7,737.2
+10% 737.7
Total 8,474.9 Cu yds

Comp Fill

987.6 Cu yds
+10% 98.8 " "
Total 1,086.4 Cu yds

* CLEARING R of W *

Clearing Right of Way (lump sum bid) is to include tree removal, fence removal, hedge removal and miscellaneous brush. Field Eng to determine which trees are to remain.

** SIDEWALK **

NOTE: To Field Engineer and Contractor. Grade for Ring and clear Right of Way for proposed Sidewalk. Compact backfill in sidewalk area. SIDEWALK to be constructed by "OTHERS"

NOTE: Bid Item lineal feet pipe removed is to include headwall removal.

B. E. SMITH LICENSED 435 KANSAS PROFESSIONAL ENGINEER

2/13

21ST STREET

E. L. RIDGEWOOD To E. L. WOODLAWN BLVD.

44'-2'-48' ASPH - CONC

City of Wichita, Kansas

B. E. Smith City Engineer

Date July 1968 Project No. C18-4

B.M.: 196.89 R.R. Spike S. Side Bell pole. N. Side 21st at W.L. Malcolm So. Sta. 6183

P.I. 198.91 100' V.C.

-1.96 %
+0.5 Walk

-0.97 %
+0.5 Walk

8+68 P.I. 206.80 136' V.C.

+1.14 %
+0.5 Walk

EDGEMOOR DR.

EDGEMOOR DR.

5+50 6+00 6+50 7+00 7+50 8+00 8+50 9+00 9+50 10+00 10+50 11+00 11+50

R/W = 50'

15' 30' fe-fe. 5' 100' 5' 30' fe-fe. 15'

Future Curb

7+65.63

9+65.91

8" Conc.

8" Conc.

Proposed 4' Sidewalk

21st STREET

Sta 7+68.28

10'

Entrance

no curb

no curb

6"

8"

Conc

8"

Conc

12" H.P.

24" W

8" Sanitary

24" W

12" H.P.

Proposed 4' Sidewalk

R/W = 50'

R/W = 50'

5+80.26

6+42.26

8+90.20

9+60.11

-1.98 %
Grad Walk
+1/2 to 19

Grad Wk 19 to 19

-0.82 %
Wk Gr +19

+1.14 %

+1.16 %
Wk Gr +19

P.I. 198.88 120' V.C.

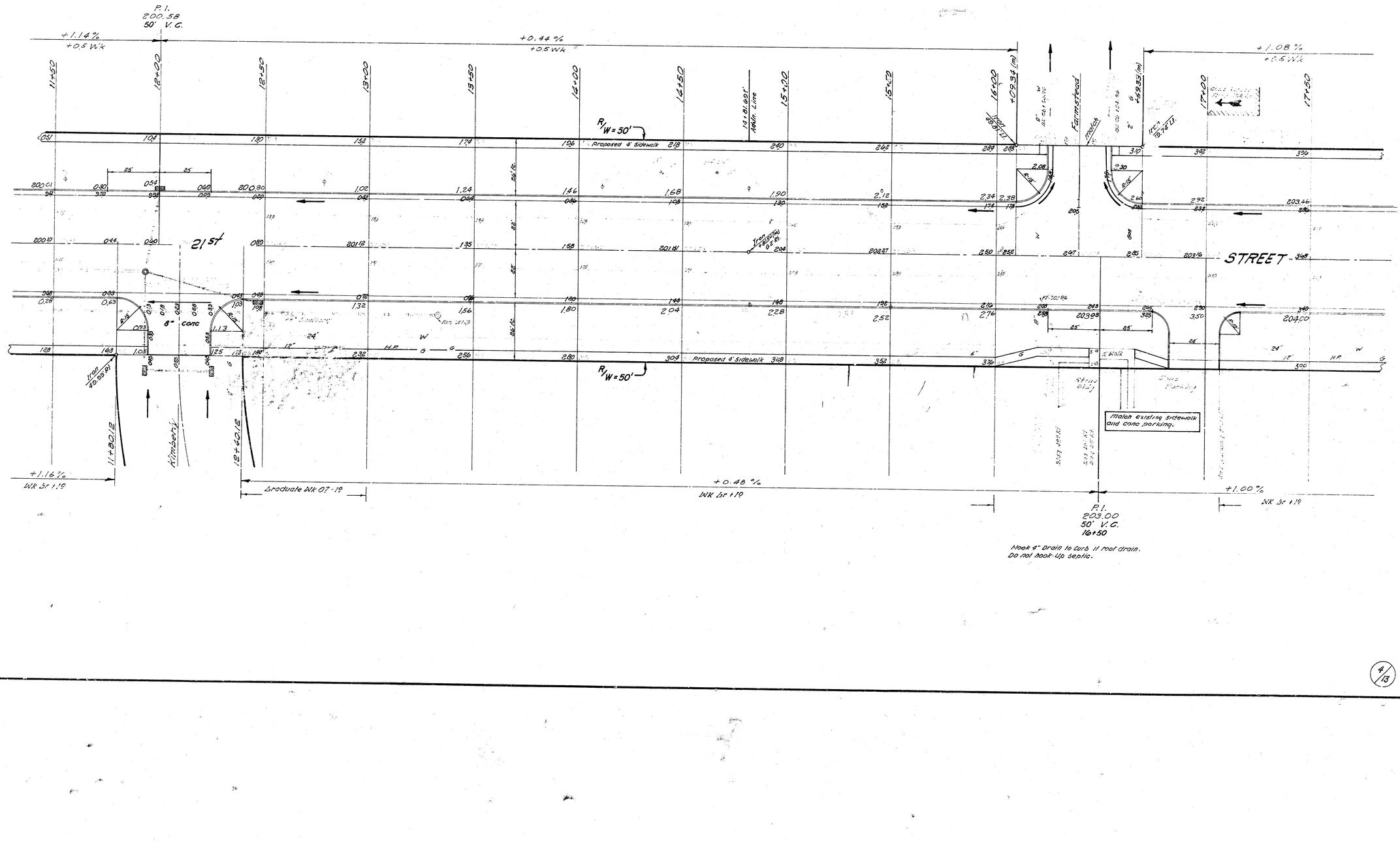
P.I. 197.01 144' V.C.

NOTE To Contractor and Field Engineer
Intersection Return is to be completed after water line is Adjusted & S.W.S. Extended.

3/13

B.M.: 201.605 R.R. Spike S. Side Bell Pole. N. Side 21st 36' E. of E.L. Kimberly. S10 12 17 8.

B.M.: 201.885 "T" Cut Top W. Curb Farmstead. 7.5' North of N.L. 21st St.



4/13

B.M.: 207.54 "X" N. Side conc base to Flood l.l.e, S. Side 21st. Street
N. Side Crestview Bowl. Sta 22+87.

P.I.
205.62
200' V.C.

+1.08%
+0.5 Wk

-0.52%
+0.5 Wk

17+50 18+00 18+50 19+00 19+50 20+00 20+50 21+00 21+50 22+00 22+50 23+00 23+50

R/W = 50'

396 450 504 548 578 576 560 Proposed 4' Sidewalk 539 508 482 456 430 404

85' 85' 85' 85' 85' 10' 15' 85' 25'

20344 400 454 479 498 513 522 527 529 526 521 510 484 458 432 204.06 380 203.54
386 340 384 418 438 453 462 467 469 466 461 450 434 398 372 346 320 294

20368 480 21st 472 496 514 529 537 542 540 535 205.26 20498 472 446 204.20 STREET 394 203.68

380 330 440 463 480 494 500 504 504 499 490 480 460 436 410 384 356 328
400 450 205.00 523 540 554 562 566 564 559 548 522 496 470 204.44 418 392

85' 85' 85' 85' 85' 5' 80' 25' 85'

24" 12" W H.P G 24" 12" W H.P G

500 550 600 640 642 Proposed 4' Sidewalk 664 670

R/W = 50'

P.C. Hor. Curve P.T. Hor. Curve

+1.00 Wk. -0.52%

Wk Gr +1.0 P.I. 206.00 200' V.C. Graduate Wk Gr +1.0 -1.3 Motch Coping

5/13

TIES to section corner STONE 21ST & WOODLAWN.
48.48' N.E. to nail in bottle cap. N.W. side power pole.
57.67' S.E. " S. side power pole.
48.28 S.W. to nail in bottle cap N.W. side power pole.

B.M. = 202.35 City Standard N.E. Cor. 21st & Woodlawn.

-0.52 %
+0.5 Wk

23+50 24+00 24+50 25+00 25+50 26+00 26+50 27+00 27+50 +52.72 (m)

R/W = 50'

Proposed 4' Sidewalk

21st

Match

Construct Asphalt Hook-up

Blvd

Flo 198.00

Iron 203.11

8.84

Stone 198.55 (m)

STREET

Woodlawn

Flo 198.20

Flo 200.20

Remove Existing 40" x 24" RCP and Install, 120' - 22" x 13" C.M.P.A.

Fill Existing Ditch

60' - 22" x 13" C.M.P.A.

Flo 200.00

8" HLP Cryolite Oil Line Cont. Oil Pipeline Co.

Match Coping

-0.52 %

WK Gr. + 1.6

DITCHING

All filling of Ditches, re-shaping and grading of ditches to drain at ROSEMONT DRIVE North and at WOODLAWN will be incidental to the project.

6/13

30 40 30 20 10 ℄ 10 20 30 40 50

205
5+00
200
4+50
200
4+00
200
205
3+50
205
3+40.68
E.L. Larkspur
C·15² F·12²
205
3+25.7
E. Curb Larkspur
30' 17.3 C.Y. 12.3 C.Y.
205
3+10.7
℄ Larkspur
C·19² F·10¹
2+95.7
205
W. Curb Larkspur
30' 20.3 C.Y. 11.6 C.Y.
C·17² F·12²
2+80.68
205
W.L. Larkspur
2+50
205
2+00
205
1+50
205
1+00
210
0+75
210
0+50
210
0+20
210
215
0+00
210

Rt. C·42² F·5²
50' 16.7 C.Y. 1.2 C.Y.
C·54² F·17²
200
50'
C·40² F·20²
200
50' 64.7 C.Y. 4.2 C.Y.
205
C·34² F·31²
50' 14.9 C.Y. 52.1 C.Y.
205
C·58² F·26¹
5.3²
17.4² C.Y. 8 C.Y.
205
Rt. C·50² F·20¹
Lt. C·34² F·8¹
14'
21.7 C.Y. 4.3 C.Y.
205
Rt. C·47² F·9²
Lt. C·71² F·9²
16'
41.1 C.Y. 9' 5.3 C.Y.
205
C·68² F·9²
16'
42.7 C.Y. 9' 5.4
205
Rt. C·75² F·8²
Lt. C·51² F·8²
14'
210
25.3 C.Y. 4.2 C.Y.
Rt. C·46² F·9²
Lt. C·63² F·20²
30.68
72.5 C.Y.
210
23.3 C.Y.
C·15² F·20²
50' 120.1 C.Y. 30.5 C.Y.
16²
210
C·64² F·12¹
50' 120.3 C.Y. 197 C.Y.
210
C·66¹ F·9²
50'
74' 137.5 C.Y. 12.4 C.Y.
210
C·9.. F·6²
25' 72.5 C.Y. 5.8 C.Y.
210
C·73² F·6¹
25' 61.3 C.Y. 3.7 C.Y.
210
5.1² F·1.5
64.7 C.Y. 0.5 C.Y.
210
215
210

30 40 30 20 10 ℄ 10 20 30 40 50

Sheet 1 of 13

21st Street
C.1.2-4

6+50

E.L. Edgemoor

6+26.3
E. Curb Edgemoor

6+03
℄ Edgemoor

5+95.3
W. Curb Edgemoor

W.L. Edgemoor

5+50

5+30

6+50

7+00

7+50

8+00

8+50

Old Street

Sheet 6 of 13

Sheet 4

50 40 30 20 10 ℄ 10 20 30 40 50

205
℄ Kimberly
12+10.1

200

W. ½ Kimberly
12+02.6
200

W. Curb Kimberly
11+95.1
200

W.L. Kimberly
~~11+80.12~~
200

11+50
200

200
11+00

200
10+50

200
10+00

200
9+55.8
195

195

W. Curb Malcom
~~8+95.2~~
195

W.L. Malcom
~~8+80.80~~
195

200
8+68.5
195

205

200

200

200

200

200

200

200

200

9+50

E.L. Malcom
~~9+40.11~~
9+41.2

E. Cb
9+25.2

E. Malcom
9+10.2

W. Cb.
8+05.2

W.L. Malcom
8+80.2

200

195

50 40 30 20 10 ℄ 10 20 30 40 50
Sheet 9 of 13
21st Street

50 40 30 20 10 ℄ 10 20 30 40 50

210

21+00 205

20+50 205

20+30 205

20+00 205

19+50 205

19+00 205

18+50 205

18+00 205

17+50 205

17+35 205

17+00 205

E.L. Farmstead
16+59 205

200

E. Curb Farmstead
16+54.86

200

E. 1/2 Farmstead
16+46.76

200

E. Farmstead
16+39.26 205

200

205 11.1 C.Y.

205 12.1 C.Y.

205 14.1 C.Y.

210 14.8 C.Y.
205 14.2 C.Y.

205 13.4 C.Y.

205 13.7 C.Y.

205 13.1 C.Y.

205 13.1 C.Y.

205 13.4 C.Y.

205 11.5 C.Y.

205 12.8 C.Y.

205 11.5 C.Y.

205 11.4 C.Y.

205 10.4 C.Y.

205 7.5 C.Y.

205

205

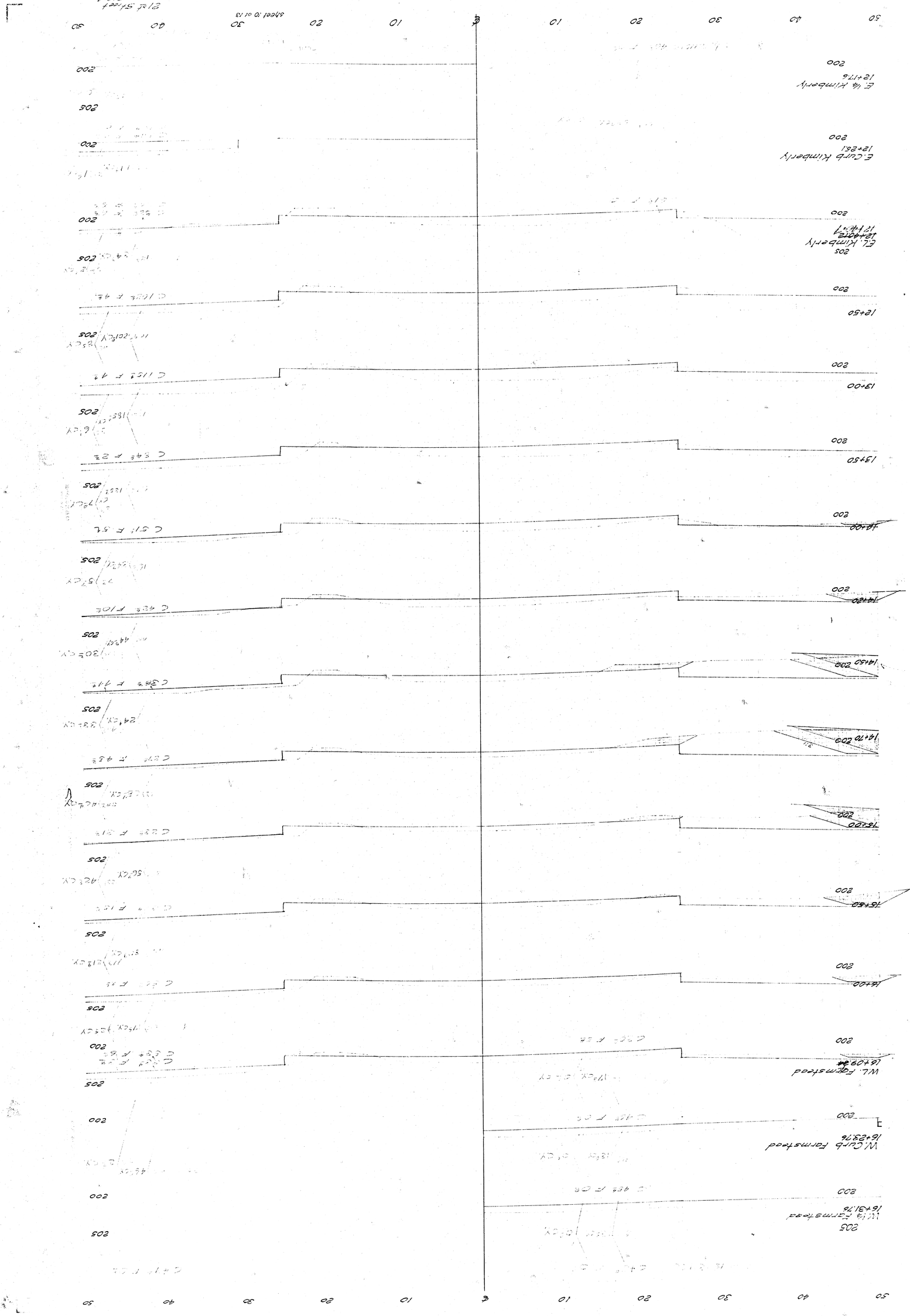
205

205

200

50 40 30 20 10 ℄ 10 20 30 40 50

Sheet 11 of 13


Sheet 10 of 13
Oleff Street
C18-4
50
40
30
20
10
℄
10
20
30
40
50
E. Curb Kimberly
12+251
200
E. Kimberly
12+176
200
205
E. Kimberly
12+001.17
200
12+50
200
13+00
200
13+50
200
205
14+00
200
14+50
200
14+76
200
205
15+00
200
15+50
200
205
16+00
200
16+50
200
205
W. Curb Farmstead
16+23.76
200
205
W. Farmstead
16+31.76
200

50 40 30 20 10 ℄ 10 20 30 40 50

205
27+78
30

W.L. Woodlawn
27+82.72
200

27+50
200

27+00
200

26+50
200

26+00
200

25+50
200

25+30
200

25+00
200

24+50
200

24+00
200

23+50
200

23+20
205
200

22+50
205

22+03
205

21+50
205

205
200

205
C 4.1 F 6.2

205
C 4.1 F 6.2

205
C 4.1 F 6.2

205
C 4.1 F 6.2

205
C 4.1 F 6.2

205
C 4.2 F 6.2

205
C 4.2 F 6.2

205
C 4.2 F 6.2

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C 4.2 F 6.2

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C 4.2 F 6.2

205
C 4.2 F 6.2

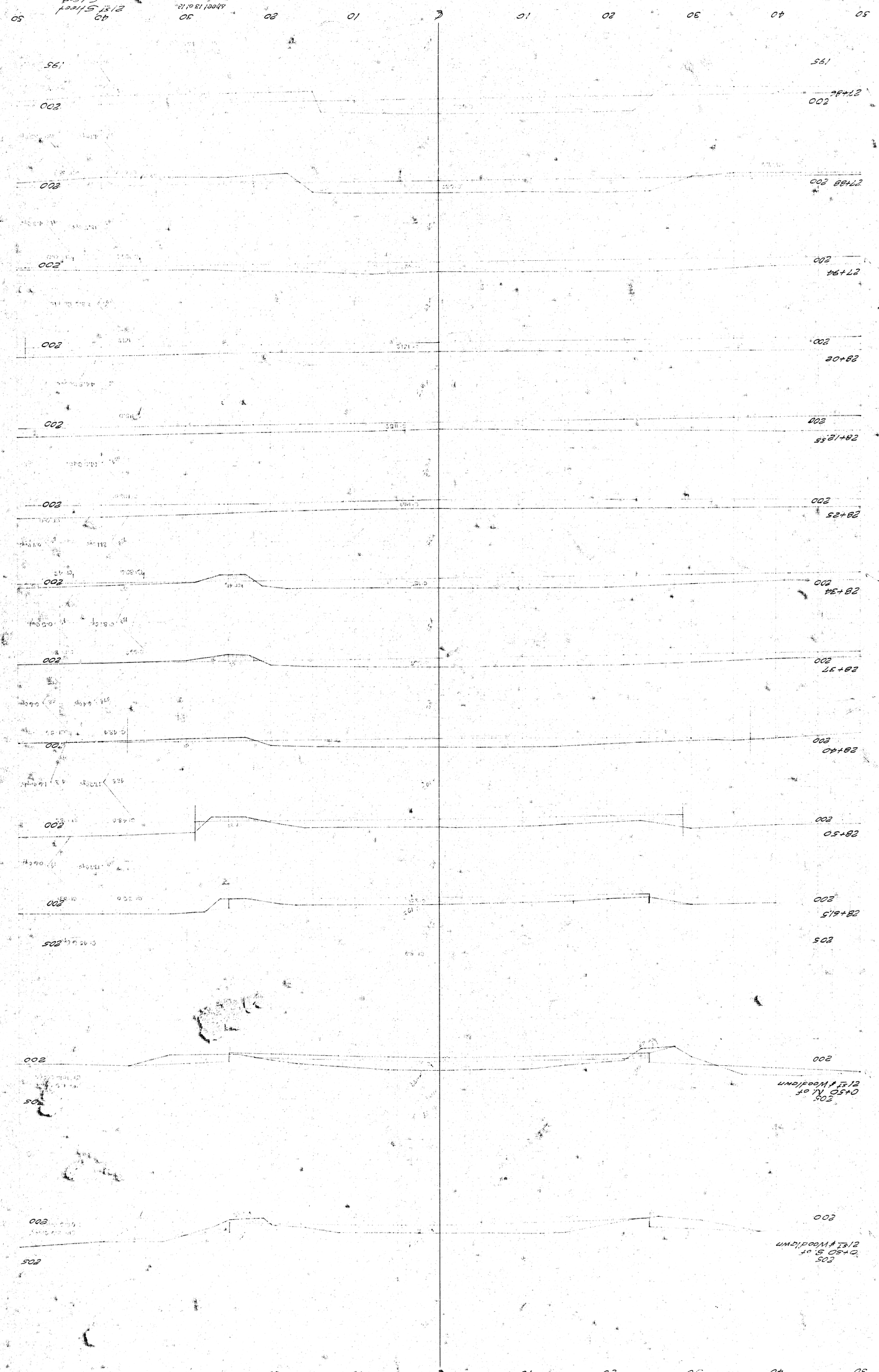
205
C 4.2 F 6.2

205

50 40 30 20 10 ℄ 10 20 30 40 50

Sheet 12 of 13

21st Street
C 16-4


50 40 30 20 10 0 10 20 30 40 50
27+34 200
27+94 200
28+02 200
28+12.35 200
28+25 200
28+34 200
28+37 200
28+40 200
28+50 200
28+63 200
205
205 0+50 N. of 21st # Woodlawn
205 0+50 S. of 21st # Woodlawn
200