

Book 44 Dr 14

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

PLAN Survey

SIXTH STR.

From Wood Ave To Bald Eagle Av
White Bear City

Road Acc't. No.

Date Filed 1-30-43

File

PLAN SURVEY

SIXTH ST.

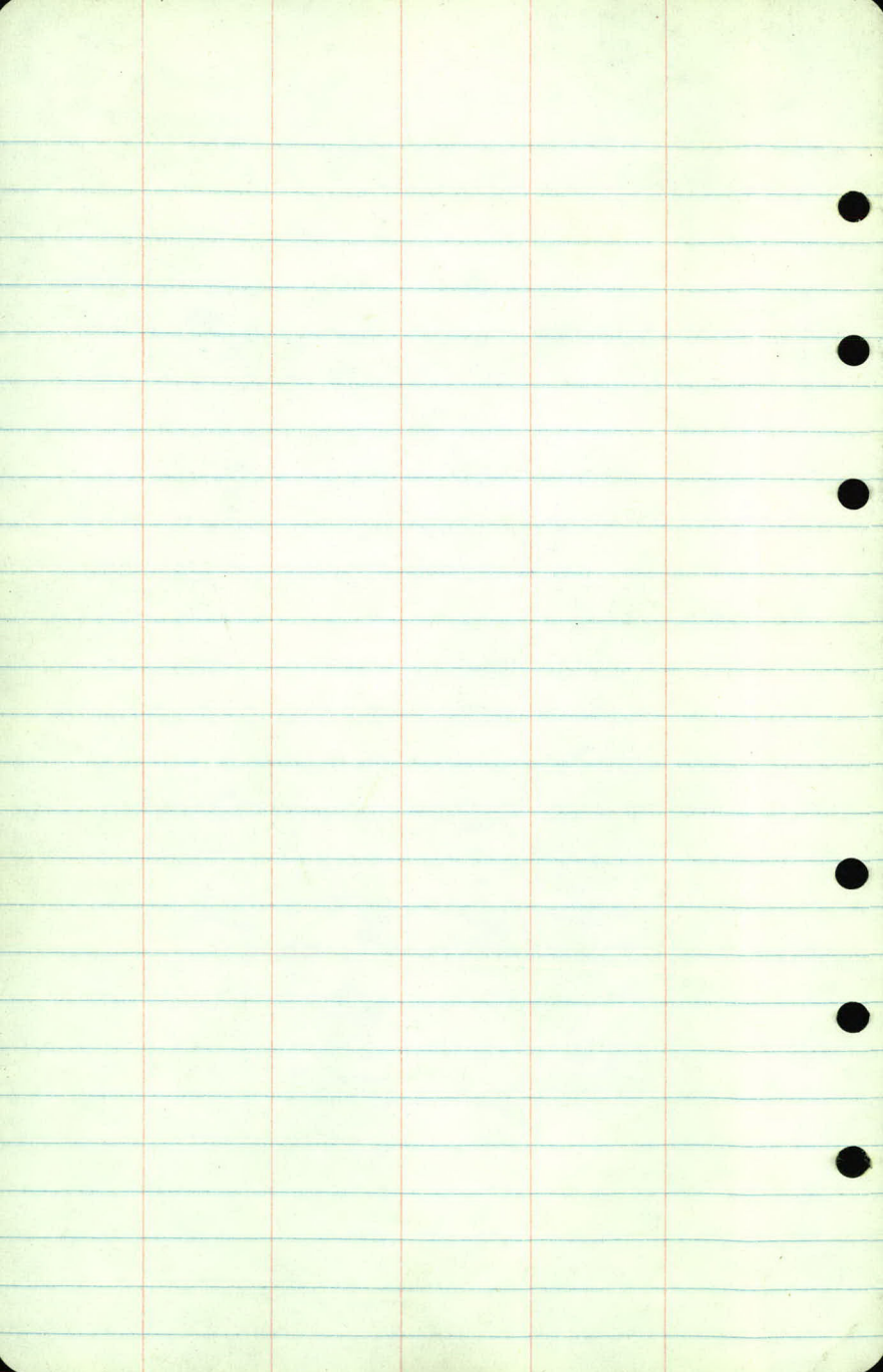
Wood Ave to Bold Eagle Ave.

INDEX

Align -- 1-2

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Alignment

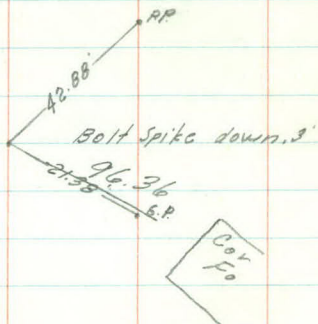
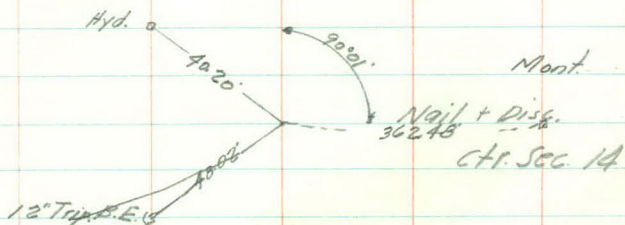
Sta Point Δ Lt Δ Rt

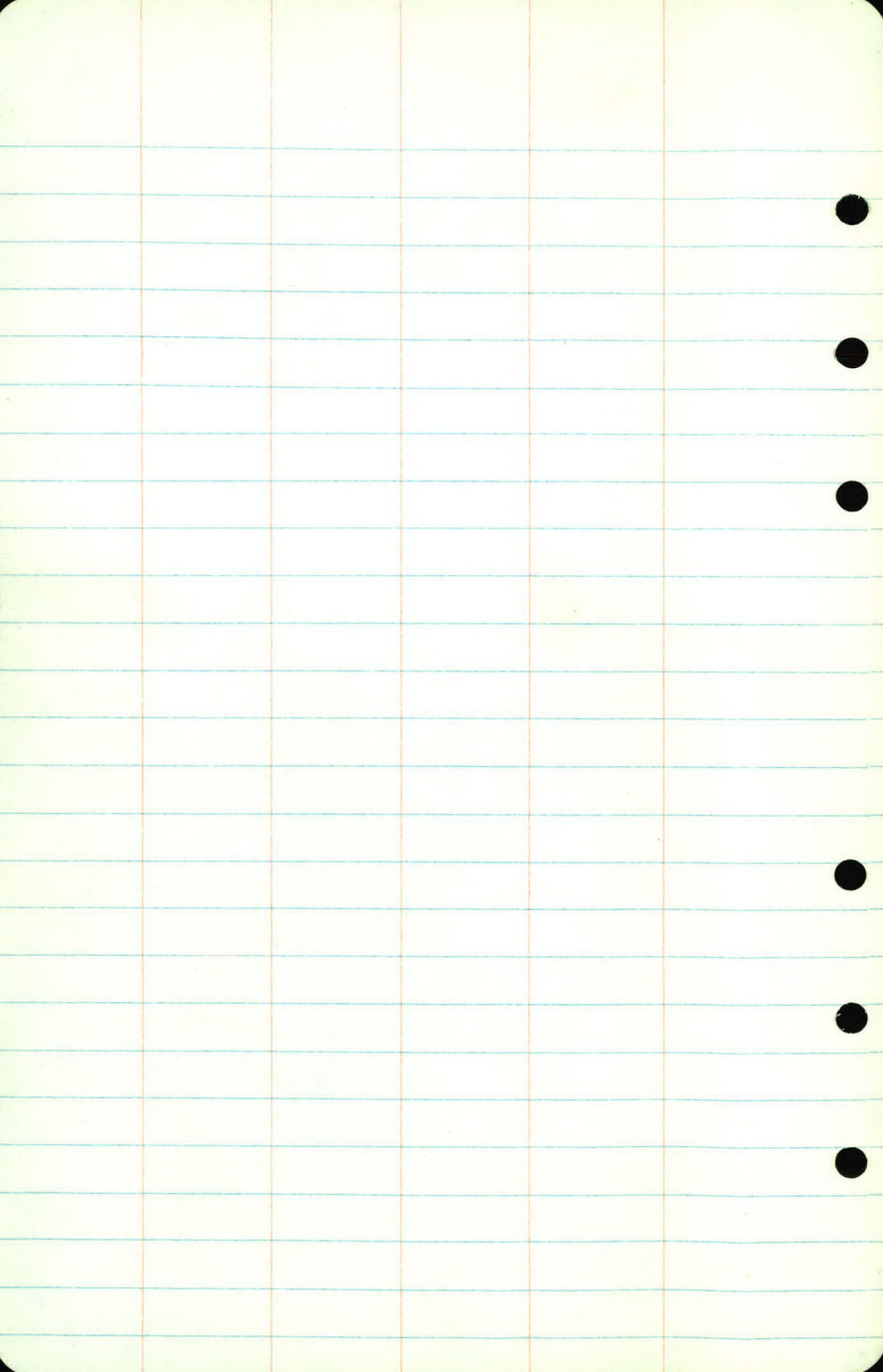
13 +36.60 = E Bald Eagle Ave.

0 +00 = E Wood Ave. 30' R.O.W.

3-18-42
K.A.
L.G.
C.F.

2





Topography

+91-6.P-20'

+65.5 Ch. MH 73' 14"

+96-12" Pop-35
+92-PP-16'
+94-Ed-28'
+62-Rad-30'
+40-Rd-5'

5 +09.3 SW. Co. 8' Walk 29.8'
13 4

+78-PP-15'

4 +17.7 SW. Co. 10' Walk 33.5'
13 5'

3 +10-PP-17'
12 5 +102-Ent
+84-18' Elm-31'

2 +37-N.W. Co. Ho-54'
11 5 +19-Ent-
+11-12' BE-32'
+75-PP-16'

1 12' 4'

+50-Rad-11' +40-Rad-5 PP-16'
0+00 +10-Rad-36' Rad-31'
+07-Edge Rd.

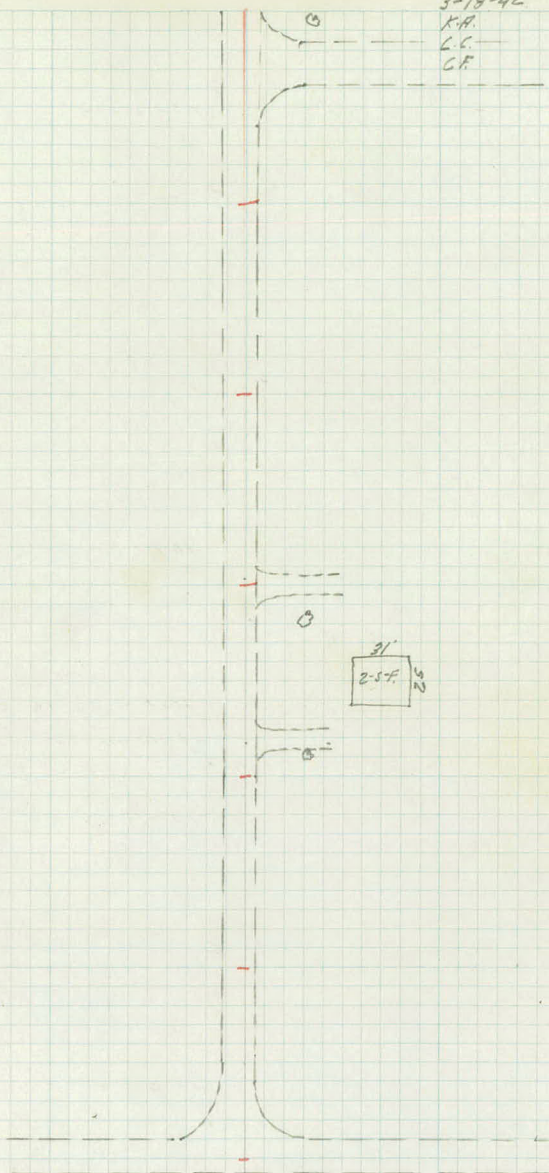
3-18-42

4

X.H.

L.C.

C.F.



+96-12" Trip. B.E.-29'

+67-12" Apple-42'

+18-5" Trip. B.E.-33'

12 5" Tw. B.E.-30'

+59-6" Apple-42'

+4-5" Tw. B.E.-38'

+59-2" Elm-34'

+36-2" Priv.-34'

+66-Shrub-17'

+91-Ent-

+76-Shrub-17'

+60-Ent Shrub-32'

+57-PP-17'

+29-Bag. Shrubs-31'

+27-N.W. Cor. Cor-34'

+67-Fc Cor.-34'-End-44'

12' 7'

+108-12" Trip. B.E.-43'

10 12'

+12-PP-17'

+89-Ent

+57-2' Conc. Walk-28'

+31-N. W. Cor. Ho.-60'

+17-12" Elm-23'

6'

+21-36" Willow-32'

+95-Cor Brush-31'

+77-12" Elm-22'

+69-PP-17'

+37-12" Elm-22'

+27-5" Pop-21'

+23-4" Pop-18'

+21-4" Trip. Pop-28'

04-30" Pop-38'

13' 6'

+95-10" Elm-22'

90 -30" Pop-37'

+80-24" Pop-37'

+53-8" Elm-22'

+30-PP-17'

+13-15" Elm-22'

18" Pop-37'

+69-12" Elm-22'

+57-13" Maple-35'

+34-N.W. Cor. Ho.-59'

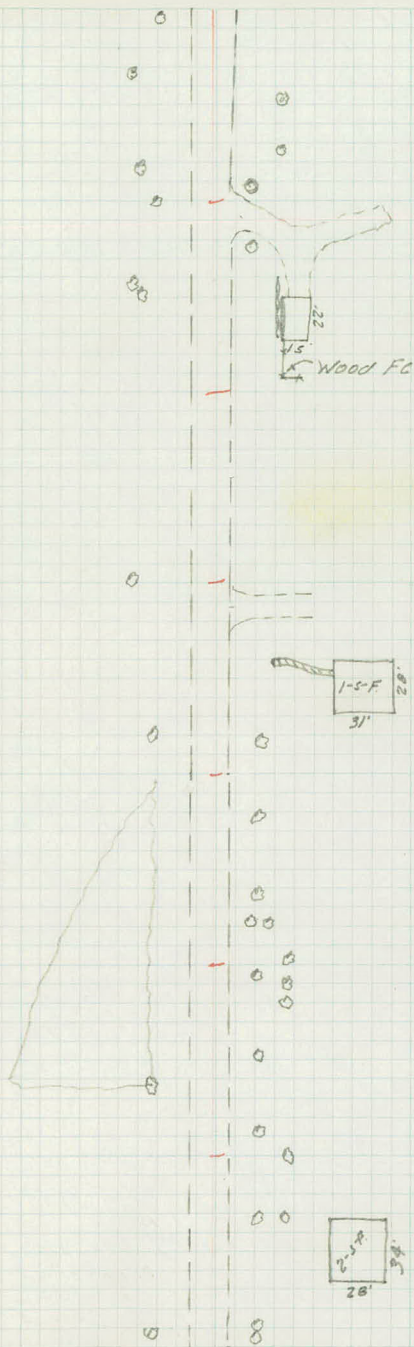
+12-10" B.E.-21'

+05-12" Pop-21'

13' 6'

+07-24" Willow-32'

6



+55-S. Drain - 93'

+566-4 30' Block Top Soil Face

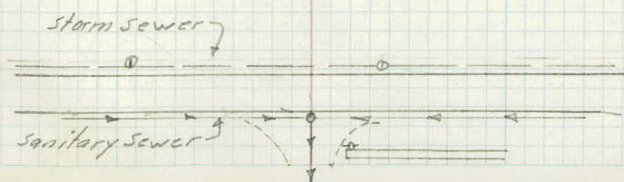
+513-M.H. - 36'

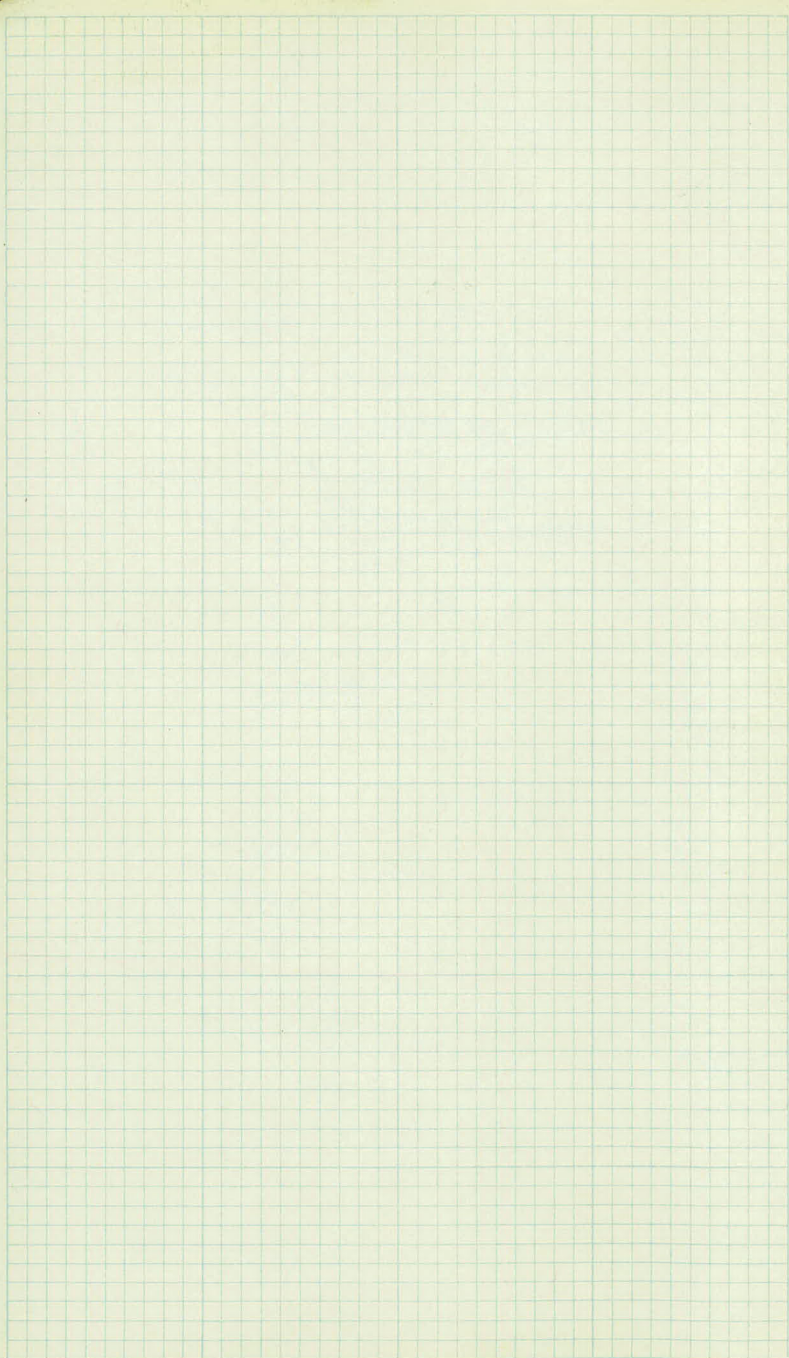
+22.7-M.H. - 00'

+09-PP-21'

+08-Cor. SW 2 18'

+09-60' S.W. 2





Xsections

Sto	+	π	-	Elev	
B.M.	5.19	938.48			933.29
T.P.	5.38	938.99	4.87	933.61	
B.M.	0.79	937.96	1.82	937.17	
T.P.	5.96	938.83	5.09	932.87	
B.M.	4.35	937.95	5.23	933.60	
0	+00			32.8	
	+50			32.3	
1				32.4	
	+50			32.5	
2				32.8	
	+50			33.2	
3				33.6	

Lt

Q

Rt

Top U.S.G.S. Mont. in St. Marys School Yard.

Top Hyd. N.E. Cor. 6th & Bald Eagle Ave.Spike in R.R. S.E. Cor. Wood Ave. & 6th St.

33⁰ 32⁷⁰
 50 50 50 52 53 53 52
 100 50 25 25 50 100

32³ 32⁰
 57 59 62 57 57 60 63 61 60
 50 20 15 8 5 18 40 50

32¹ 32⁴
 59 59 60 62 56 56 60 60 58 56
 50 24 12 11 7 4 13 33 50

32²⁰ 33¹
 58 56 57 60 55 55 57 55 53 51 49
 50 27 13 12 7 4 5 12 32 50

32³ 33¹
 57 55 53 56 52 52 54 53 51 49
 50 29 12 11 7 5 16 32 50

33⁰ 34¹
 55 49 47 50 48 51 47 46 39
 50 30 12 11 7 9 28 50

33⁷ 33⁶⁰
 48 43 44 48 44 44 49 47 45 44
 50 35 14 13 6 5 6 25 50

Sta	+	π	-	Elev
		937.95		

3	+50			33.8
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4				33.7
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	+50			33.7
--	-----	--	--	------

5				33.9
---	--	--	--	------

	+50			34.0
--	-----	--	--	------

	+72 Profile Rd. Rt.			33.9
--	---------------------	--	--	------

6				33.5
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T.P.	3.05	937.28	372	934.23
------	------	--------	-----	--------

	+50			33.1
--	-----	--	--	------

Lt

R

Rt

33.1

337

49	44	4.6	50	42	42	44	44	43
50	24	14	15	6		6	28	50

33v

336

48	46	4.6	50	43	43	44	45	44
50	30	14	12	6		7	23	50

32.8

340

52	45	4.8	4.8	4.3	43	45	4.2	40
50	31	17	13	6		9	24	50

328

343

52	48	42	45	42	41	42	38	37
50	33	20	13	6		10	32	50

330

350

50	50	43	44	40	40	42	39	29
50	29	14	12	6		14	21	50

345

41	38	35	32	35	37	38	38
25	50	100	150	200	250	300	

333

350

47	50	47	44	46	42	45	47	41	33	30
50	38	28	13	12	5		9	14	28	50

331

350

42	41	44	47	42	42	47	40	36	23
50	27	16	14	6		10	12	27	50

Sta	t	π	-	Elev
-----	---	-------	---	------

937.28

7				33.0
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	+50			32.9
--	-----	--	--	------

8				32.9
---	--	--	--	------

	+50			32.7
--	-----	--	--	------

9				32.3
---	--	--	--	------

	+40			32.3
--	-----	--	--	------

	+70			32.2
--	-----	--	--	------

10				32.3
----	--	--	--	------

21

2

21

331

342

42 40 42 49 43 43 48 41 36 31
50 29 14 13 7 10 12 26 50

328

338

45 42 45 49 44 44 49 50 45 42 35
50 30 14 13 6 5 10 12 26 50

326

332

47 45 46 50 44 44 50 51 47 42 40
50 36 14 13 6 6 10 12 29 50

323

328

50 48 47 52 45 46 50 50 45 44 45
50 32 14 13 5 6 11 13 29 50

311

328

62 58 52 54 49 50 52 51 46 42 45
50 25 13 12 8 6 11 13 24 50

305

345

68 66 55 50 52 54 51 46 38 28
50 31 13 7 12 12 27 30 60

309

340

64 64 55 52 51 52 56 53 49 41 33
50 31 17 9 10 12 20 29 31 50

319

325

54 54 53 54 50 50 52 55 50 50 48
50 35 18 12 4 8 12 16 31 50

Sta	T	π	-	Elev
		937.28		

10	+50			32.6
----	-----	--	--	------

11				33.0
----	--	--	--	------

T.P.	4.70	938.88	3.10	934.18
------	------	--------	------	--------

	+50			33.4
--	-----	--	--	------

12				33.6
----	--	--	--	------

	+50			34.1
--	-----	--	--	------

13				34.3
----	--	--	--	------

	+04			34.4
--	-----	--	--	------

	+227 M.H.			34.7
--	-----------	--	--	------

Lt

2

Lt

329

326

4.4 4.4 4.5 5.0 4.6 4.7 5.0 5.0 4.6 4.7 4.7
50 31 15 11 4 7 12 15 31 50

330

327

4.3 4.3 4.4 4.8 4.2 4.3 4.8 4.7 4.1 4.1 4.6
50 33 13 12 4 7 12 14 33 50

328

337

4.1 5.1 5.8 5.5 5.7 6.1 5.6 5.5 6.1 5.5 5.1 5.2
50 21 18 13 12 4 7 10 17 30

331

338

5.8 5.3 5.0 5.2 5.5 5.3 5.6 4.9 5.1 5.1
50 28 18 12 11 9 11 32 50

335

341

5.4 4.9 4.5 5.0 5.2 4.8 5.4 4.7 4.7 4.8
50 32 18 12 11 8 11 26 50

340

345

4.9 4.8 4.0 4.2 4.7 4.6 5.0 5.0 4.1 4.2 4.4
50 38 29 15 12 6 10 14 31 50

340

346

4.9 4.7 4.2 4.1 4.7 4.5 5.0 4.7 4.23 4.30
50 32 28 17 14 11 12 18 50

26.36

471

12.52

Top

How Line

Sta	+	π	-	Elev
		938.88		
13	+26.6			34.14
	+36.6			34.31

+31.5 Flow Line Storm Sewer

B.M.	1.77	938.94	1.69	937.19	(937.17)
T.P.	5.47	938.83	5.58	933.36	
B.M.			5.51	933.32	(933.29)

Lt

2

Bt

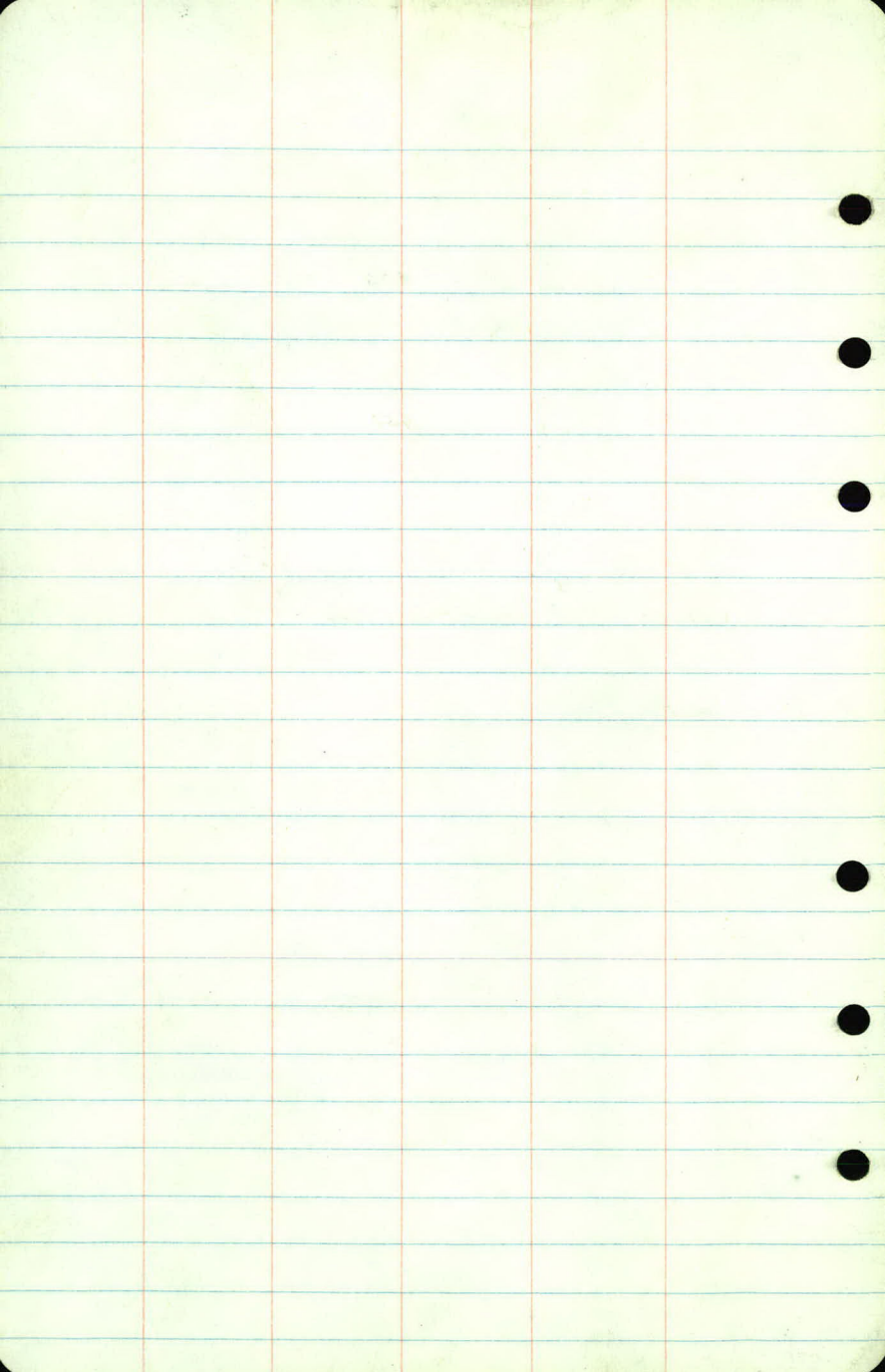
4.74

4.57

29.28
9.60
36'

Top Hyd. N.E. Cor. 6th St. & Bald Eagle Ave.

U.S.G.S. Mant



6th St.

Wood Ave. to Bold Eagle Ave.

Additional Levels

Sta.	+	π	-	Elev
B.M.	1.22	938.39		(937.17)

8	+69	140	3.48 4.97	34.91 33.42
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9	+66		4.62	33.77
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9	+87		4.49	33.90
---	-----	--	------	-------

B.M.			1.87	936.52
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B.M.	4.74	938.34		(933.60)
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1	+00		6.0	32.34 (320)
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	+50		4.5	33.8
--	-----	--	-----	------

2	+21		5.12	33.22
---	-----	--	------	-------

	+50		3.0	35.3
--	-----	--	-----	------

10/10/51

Top Hyd. @ N.E. Cor. $6\frac{1}{2}''$ & Bold Eagle Ave.

End S.W. 30' Lt.

End Apron 30' Lt.

Cor. floor 125'± rA

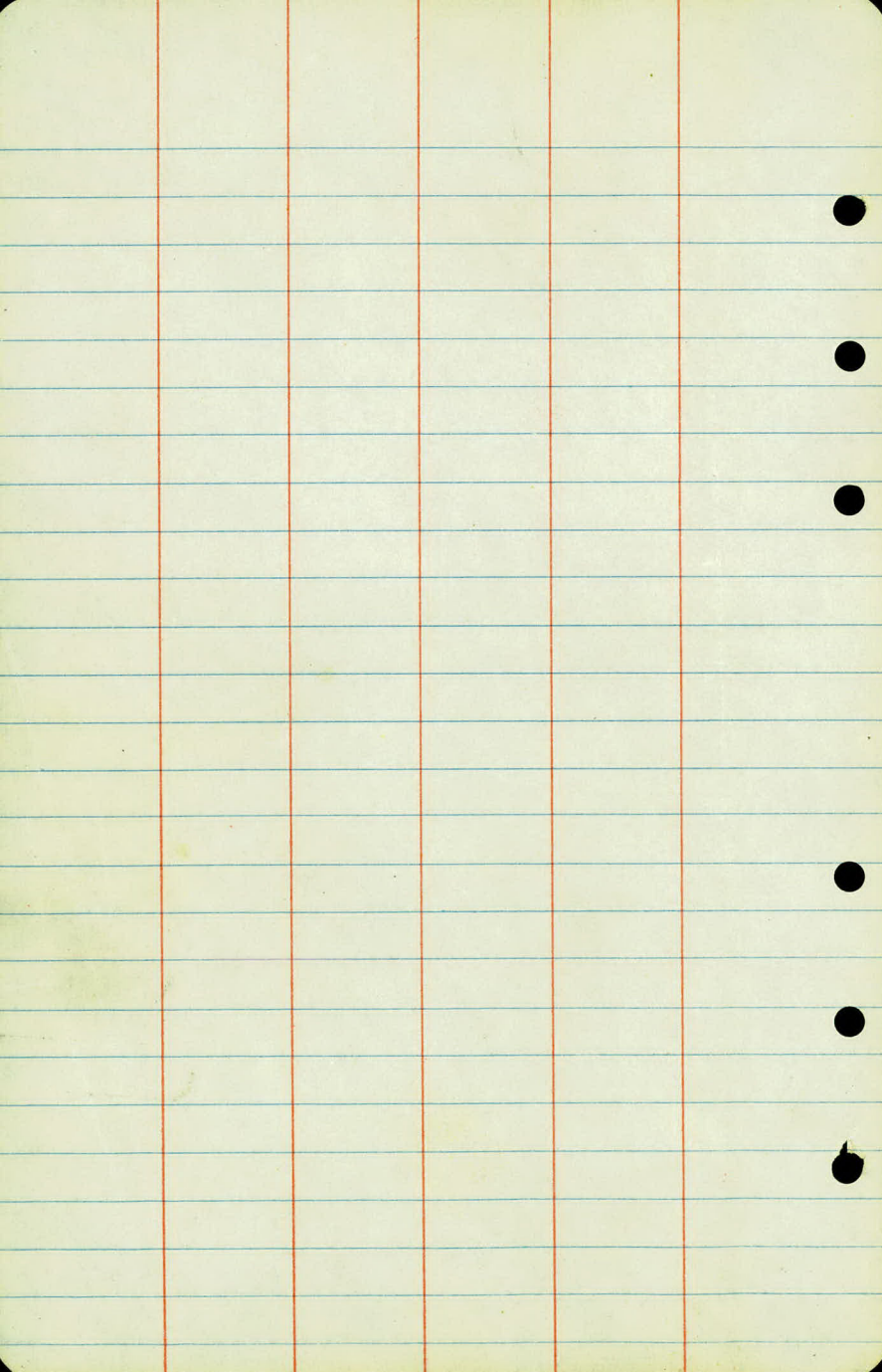
Top Hyd. Lt. sta 9+10±

Spk. in P.P. @ wood & $6\frac{1}{2}''$

Gr. at Ho. Lt.

conc. Apron 30' Lt

Gr. at Ho.



6th St.

Campbell to Bald Eagle

Profile

A pages

Sta	+	π	-	Elev
BM	1.81	937.67		935.86

5+65.5 C.Y. M.H. 7.3 Lt.

6				33.4
---	--	--	--	------

+ 50				32.8
------	--	--	--	------

7				32.7
---	--	--	--	------

+ 50				32.7
------	--	--	--	------

8				32.6
---	--	--	--	------

+ 50				32.7
------	--	--	--	------

+ 85

9				33.1
---	--	--	--	------

10 Aug 1953

2

FK
AM
LC
NMC
JB

£

Top NW. Cor. Bot. Step Front of Ho. S.E. Cor. Campbell
46th St.

33.89

3.78

17.3

Top NH

4.3

4.9

5.0

5.0

5.1

5.0

31.5

6.2
141

31.6

6.1
75

4.6

Sta + π - Elev
937.67

9+30

+50

33.3

+65 Cr. M.H. 3' Lt

10

33.3

+50

33.1

11

33.1

+50

33.2

12

33.7

310

6.7

141

Low Spot Back of Ho

A.4

347

A.20

3'
Top MH

A.4

A.6

A.6

A.5

A.0

Sta + π - Elev

937.67

12+50

33.8

13

34.0

+36.6 ϕ Bald Eagle Ave 34.3

BM

1.21 936.46

936.52

4

2

3.9

37

34

Top Hyd Lt sta 9+10

536

1
White Bear School

X-Sections

6th St. Wood to Bald Eagle

pages

drawn up May 1953

Sta	+	π	-	Elev
BM	3.55	937.15		933.60
BM			1.03	936.12

2+63.5

+63.5

+63.5

3

3

3

3

+25

28 May 1953
FX
AM
MNO

Overcast 60°
Windy

2

LT

Q

Sph in PP SE Cor Wood Ave. & 6th St

Hyd SE Cor Wood Ave & 6th St

31.6	31.5	31.7	32.7	32.9	33.0	32.6	33.1	33.2
5.6	5.7	5.5	4.5	4.3	4.2	4.6	4.1	4.0
100	86	73	50	34	22	18	10	

33.4	33.6	33.3	32.9	32.8	32.2	31.7
3.8	3.6	3.9	4.3	4.4	5.0	5.5
252	229	200	180	163	146	127
Iron						

33.3	33.3	33.9	33.3	33.3	33.5	33.8
3.9	3.9	3.9	3.9	3.9	3.7	3.4
446	400	387	353	321	300	272

32.4	32.3	32.4	32.9	33.6	33.6	33.1	33.6	33.5
4.8	4.9	4.8	4.3	3.6	3.6	4.1	3.6	3.7
100	80	59	45	30	20	17	8	

33.5	33.5	33.6	33.4	33.2	32.9	32.6
3.7	3.7	3.6	3.8	4.0	4.3	4.6
279	249	230	200	196	167	137

33.3	32.8	33.1	33.0	33.2	33.4	33.5
3.9	4.4	4.1	4.2	4.0	3.8	3.7
425	400	385	363	336	320	300

33.3
3.9
448

33.3	32.9	32.8	32.9	33.3	33.6	33.1	33.6	33.7
3.9	4.3	4.4	4.3	3.9	3.6	4.1	3.6	3.5
133	100	72	58	38	19	17	8	

Sta	+	x	-	Elev
-----	---	---	---	------

937.15

3 +25				
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+25				
-----	--	--	--	--

+43				
-----	--	--	--	--

+51				
-----	--	--	--	--

+51				
-----	--	--	--	--

+51				
-----	--	--	--	--

+85				
-----	--	--	--	--

+85				
-----	--	--	--	--

L7.

D

33.7	34.1	34.6	35.0	34.9	34.6	33.8
3.5	3.1	2.6	2.2	2.3	2.6	3.4
356	336	300	264	229	200	163

33.3	33.3	33.5	33.5
3.9	3.9	3.7	3.7
462	433	400	386

36.31

0.84

278

Cone Ent. slab

33.2	32.9	33.2	33.4	33.5	33.1	33.6	33.6
4.0	4.3	4.0	3.8	3.7	4.1	3.6	3.6
100	82	63	41	20	17	7	

35.8	35.8	35.8	35.4	35.0	34.4	33.8
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1.4	1.4	1.4	1.8	2.2	2.8	3.4
316	300	248	227	200	164	135

HW Cor SW Cor School

33.2	33.1	33.2	33.8	34.2	34.8
4.0	4.1	4.0	3.4	3.0	2.4
460	439	430	400	365	339

33.5	33.2	32.4	32.4	33.5	33.1	33.7	33.7
3.7	4.0	3.8	3.8	3.7	4.1	3.5	3.5
100	68	47	26	19	16	5	

35.8	35.7	35.1	34.6	34.2
1.4	1.5	2.1	2.6	3.0
246	223	200	165	136

School

Sta + X - Elev

937.15

A+19

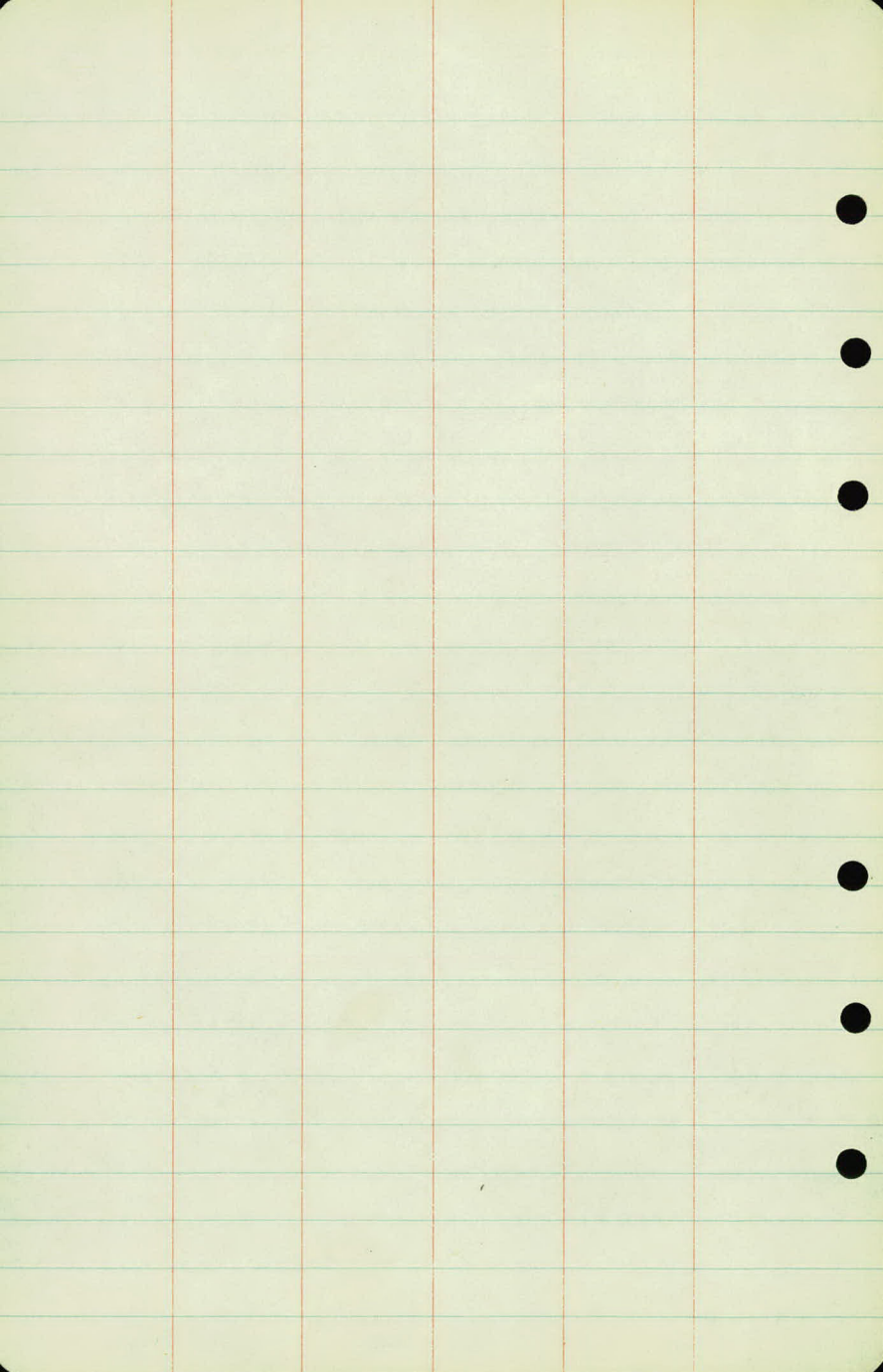
+19

BM

1.04 936.11 936.12

LY								
34.22	33.72	33.45	33.9	33.4	33.0	33.5	33.7	
2.93	3.43	3.70	3.3	3.8	4.2	3.7	3.5	
100	58	33	32	19	17	9		
		chuck work						
	36.34	35.99	35.57	35.08	34.73			
0.81	1.16	1.58	2.07	2.42				
245	225	200	166	140				

Top Hyd. S.E. Cor Wood Ave & 6th St.



DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
-------	----------------	---------------	-----	-------	-------

School Building

OBJECT

AZ.

STADIA

NW Cor

9°13'

SW Cor

11°37'

Inside Cor

36°25'

SW Cor

45°10'

SE Cor

53°25'

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
-------	----------------	---------------	-----	-------	-------

320

254

308

257

306

OBJECT

AZ.

STADIA