TOPOGRAPHY

738

450

	Cut	Fill
[illegible] (5560) +	19700	40100
Elm (3560)	9200	22270
4th Lob. (4200)	11000	5300
13th (8200)	0000	13300
5th (2400)	7277	–
Logan (793[illegible]	8200	5250
National (600)	5900	10300
Ivy (5830)	23500	33600
8th (10340)		

above advertised for Apr 17th

Nutting 1st to Park	4930	2660
Maple Front to Park	7522	1480
Grapt Atlantic to Park	20270	26090
Laurel Union to Park	19400	3000
11th	7460	3690
Olive Av	10790	3400
Inter Ocean	11360	16330
Kearny	13500	2100
22nd	15580	4900
E St, Atlantic to 24th	14000	24300
14th A to D	8540	3390
14th	20000	18000

April 16th 1888

MICROFILMED DEC 15 1964

Taken from Estimate book

	Cut	Fill
E St to 24th	28730	41801
29th " (3900)	7130	8570
8th "		
E St Atlantic to 33rd	cut 73808.	fill 169107.

F.S+

St a.

W.S. 1=+

+ 40

E.S. 1.

1

2

J. P. Preston

Excavated from Lot B Blk 91 H.A.
& deposited in 11th St 27 yds earth.

Measured Nov. 1. 1887 by G.H.D.

F St July 3 88

	Cut −	Fill +
14 to 15		19980
15		9585
15 to 16	9080	1000
16	12800	
16 to 17	128000	
17	86400	
17 to 18	73800	17800
18		42880
18 to 19		64000
19		3200
19 to 20	8000	
20	9600	
20 21	16000	
21		
21 to 22	10500	
22	8000	
22 to 23	36000	
23	9500	
23 to 24	13000	800
24		2400
24 to 25		6000
	420680	167645 cu ft
	15581	62.09 cu yd

J. P. Preston

Excavated from Lot B Blk 91 H.A.
& deposited in 11th St 27 yds earth.

Measured Nov. 1. 1887 by G. H. D.

H Street

Sta	Cut Cu yds	Fill Cu yds
Atlantic		533
Atlan-Cal		1567
California		552
Cal-Arctic		1353
Arctic		533
Arctic-India	10	891
India	25	330
Ind-Colum	480	419
Columbia	395	420
Col.-State	773	
State	270	
State-Union	616	5
Union	167	11
	2736	6194

H Street

Sta	Cut	Fill
Union Front	521	

Plan. Est. Areas between Hayes Water Front Line and Actual High Water Mark taken from Water Front Map.

A Street

Sta	Cut cu yds	Fill cu yds
Atlantic		533
Atlan-Cal		
California		
Cal-Arctic		
Arctic		
Arctic-India		
India		
Ind-Colum		
Columbia		
Col-State		
State		
State-Union		
Union		

A Street

Sta	Cut	Fill
Union Front	521	
-Front	229	
-1st	1213	
-St	558	
2d	85	886
d		222
3d	112	200
d	107	19
-4th	454	37
th	—	—
th	178	73
th	116	27
	108	24
h	52	11
	67	10
	3800	1509

H Street

Sta	Cut Cu yds	Fill Cu yds
Atlantic		533

H Street

Sta	Cut	Fill
Union Front	521	
...nt	229	
...-1st	1213	
...st	558	
...2d	85	886
...d		222
...3d	112	200
...d	107	19
...4th	454	37
...th	— —	— —
...th	178	73
	116	27
...th	108	24
...h	52	11
	67	10
	3800	1509

Plan. Est. Area between
Hayes Water Front Line Eq
Actual High Water Mark
Taken from Water Front Map.

H Street

Sta	Cut Cu yds	Fill Cu yds
Atlantic		533
Atlan-Cal		1567
California		552
Cal-Arctic		1353
Arctic		533
Arctic-India	10	891
India	25	330
Ind-Colum	480	419
Columbia	395	420
Col-State	773	
State	270	
State-Union	616	5
Union	167	11
	2736	6194

H Street

Sta	Cut	Fill
Union Front	521	

Chaintmeter Unit = .0155 deg. per.

	Outside 1st Read.	Outside 2d Read.	Outside Dif	Inside 1st Read.	Inside 2d Read.	Inside Dif	Outside Average Difference	Inside Average Difference
	1689	1541	148					
PL 1168	1541	1690	149				148.5	
	1256	1250	6					
PL 1167	1250	1256	6				6.	
	1187	1126	61					
PL 1166	1126	1188	62				61.5	
				0825	0823	2		
				0875	0873	2		2.
	8772	8769	3					
	0769	0772	3				3.	
	3749	3701	48					
	3701	3751	50				49.	
				3361	3349	12		
PL 1162				3349	3362	13		12.5
	9413	9365	48	0196	0233	37		
PL 1163	9365	9410	45	0233	0196	37	46.5	37.
	2693	2507	186					
PL 1164	2507	2688	181				183.5	
	2484	2411	73					
PL 1157	2411	2483	72				72.5	
	2370	1895	475	6740	6647	93		
PL 1156	1895	2369	474	6647	6740	93	474.5	93.
	6138	6098	40					
	6098	6138	40				40.	
	9391	9239	152					
Union Add.	9239	9390	151				151.5	
	0853	0620	233	1391	1338	53		
Forest	0620	0855	235	1338	1390	52	234.	52.5
Addition	7891	7537	354					
of 4th Standard	7537	7885	348				351.	
	9875	9859	16	7887	9882	5		
Middleton	9859	9875	16	9882	9887	5	16.	5.
of 4th Standard	9618	9604	14	4973	4814	159		
"	9604	9620	16	4814	4971	157	15.	158.
	5590	5186	404					
	5186	5587	401				402.5	
	7572	7039	533					
Canal St Tract	7039	7571	532				532.5	
Canal St Tract to	8175	6069	2106					
Hayes Park	6069	8171	2102				2104.	
	9174	9089	85					
"	9089	9174	85				85.	
	8891	8670	221	2571	2552	19		
Hayes Park	8670	8897	227	2502	2520	18	224.	18.5
Mt J.								
				1755	1578	177		
PL 209				1578	1753	175		176.
Roseville				9194	9465	271		
PL 208				9465	9196	269		270.
Roseville	1772	1787	15	2624	2442	182		
PL 199	1757	1772	15	2442	2624	182	15.	182.
Roseville	4931	4910	21	5606	5722	116		
PL 198	4910	4930	20	5722	5604	118	20.5	117.
New Roseville				6415	6346	69		
PL 187				6346	6419	73		71.
				5961	5957	4		
PL 186				5957	5961	4		4.
PL 186 to	1883	1796	87	2384	2265	119		
Monument	1796	1884	88	2265	2380	115	87.5	117.
							5323.5	1315.5

Outside Average Difference = 87.5/1442.5 = .06 ft. = 6 in.
Inside Average Difference = 70.39025 = .049 ft. = 5 in.

H Street

Sta	Cut	Fill
7–8	283	35
	55	22
8	56	15
	169	17
8–9	113	21
	32	43
9	40	36
	121	25
9–10	106	21
	67	5
10	95	4
	139	15
10–11	130	16
	30	49
11	4	54
	107	104
11–12	230	18
	30	62
12	4	297
	21	160
12–13	27	18
	717	5
13	868	
	1124	
13–14	3968	1042

H Street

Sta	Cut	Fill
14th	752	
	1442	
14–Sta 2	377	496
Sta 2–15	140	2929
15		836
		1082
15–16		593
		131
16	116	31
	480	5
16–17		557
17		580
	285	47
17–18	403	9
18	129	24
18–19	30	928
19	322	94
19–20	1458	
Totals	5934	8342

K Street

Sta	Cut	Fill
20	1064	
20-21	1592	18
21	150	18
21-22	206	6
	105	48
22	244	6
22-Sta 2	473	
	150	97
Sta 2-24	73	233
	142	91
24	340	21
24-25	345-1	
25	1105	
	2107	538
	2093	
Total.	25426	17606

3d Street

Sta	Cut	Fill
K St	2	311
K - J	111	743
J	43	44
J - I	207	87
I	67	16
I - H	176	173
H	107	19
H - G	236	199
G	76	26
G - F	479	25
F	108	4
F - E	337	38
E	86	9

3d STREET

STATION	CUT	FILL
E - D	489	14
D		
D - C	298	144
C	15	178
C - B	65	368
B	31	77
B - A	43	920
A		
A - Ash	669	119
Ash	82	29
Ash - Beech	1011	20
Beech	285	
Beech - Cedar	559	359

3d Street

Station	Cut	Fill
Cedar	258	47
Cedar-Date	3943	574
DATE		5470
Date-Elm	to sta 24	6858
	sta 2 to sta 3 1976	23
Elm	2925	
Elm-Fir	4250	
Fir	562	
Fir-Grape	667	256
Totals	19870	17478

F Street

Station	Cut	Fill
Atlantic		575
		260
Atlan.-Cal.	4	239
	5	44
California		63
	6	192
Cal.-Arc.	18	111
	13	44
Arctic	33	37
	58	52
Arc.-Ind.	39	59
	27	6
India.	47	5
	126	26
Ind.-Colum.	96	25
	37	20
Columbia	26	14
	163	13
Colum.-State	152	16
State.	55	51
	251	4
State-Union	222	
	99	6
Union	61	
	1778	1862

F Street.

Street	Cut	Fill
Union-Front	551	
	46	8
Front	29	16
	196	11
Front-1st "	188	15
1st " 1 "	49	22
	76	35
1-2 "	18	44
	11	49
2 "	28	41
	135	9
2-3 "	152	6
	108	4
3 "		
	67	33
3-4 "	33	89
	120	33
4th "-5th "	36	90
5th "	00	00
	00	00
5th "-6th "		
6th "	00	00
	1843	505

F Street

Station	Cut	Fill
6th – 7th	30	46
	109	19
7th	189	
7th – 8th	98	89
	263	
8th	202	5
8th – 9th	82	111
	217	
9th	42	27
	33	29
9th – 10th	263	7
	260	12
10th	13	55
	18	71
10th – 11th	13	224
	22	227
11th	29	37
	43	18
11th – 12th	150	6
	58	100
12th	44	60
12th – 13th	433	7
	2611 V	1150 V

F Street

Station	Cut	Fill
13th	415	
	385	21
13th – 14th	23	315
	9	147
14th	21	171
	(Co +50)	288
14 – Sta 1+50		828
Sta 1+50 to 15		3519
		785
15th		260
	8	350
15th – 16th		1041
16th	98	355
	4404	
16th – 17th		
	659	
17th	335	27
17th – 18th	520	459
	S 1/2	379
18th	40	305
18th – 19th		1825
	6917	11075

F Street 1123

Station	Cut	Fill
19th	553	17
19th – 20th	607 424 92	137
20th	27	143 54
20th – 21st	105	215
21st	386	7
21st – 22d	852 525	50
22d	9 121	59 11
22d – 23d	1152	
23d	155	
23d – 24th	first 58 95 16 00	11 101 221
24th	23	119 52
24 – 25	1876 932	32
25	203 12	47

Totals

Cut 21004 fill 13878

1st Street

	Cut	Fill
J St	49	
	49	61
J St		
	64	16
1		
	49	39
2		
	50	44
I St		
	40	43
I St		
	189	12
1		
	474	
2		
	539	
H St		
	558	
H St		
	477	
1		
	350	15
2		
	226	19
G St		
	66	79
G St		
		118

Totals

Cut	Fill
315	446

1st Street

	Cut	Fill
1		
	29	122
2		
	17	44
F St		
	19	22
F St		
	51	91
1		
		223
2		
		223
E St		
	13	123
E St		
	200	11
1		
	8	167
2		
	4	300
D St		
	—	—
D St.		
	62	29
1		
	124	20
2		
	50	62
C St		
	5	162

Totals

Cut	Fill
612	1599

1st Street	Cut	Fill
6. St-		191
1	8	161
2	9	153
8 St.	57	64
8 St.	195	105
1	108	110
2	52	103
9 St		
9 St	184	10
1	98	63
2	23	194
9 St.		
9 St.	164	7
1	148	6
2	102	21
Totals	968	1385

1st Street	Cut	Fill	
Beech St	118	62	X
Beech St	257	15	
1	488		
2	578	5	
Cedar St	127	114	
Cedar St		1550	
1+50	66	21	
2	485		
Date St	723		
Date St-	450	516	
1	49	268	
2	220	45	
Elm St	471	35	
Elm St.	657	52	
1	641	645	
Totals	Cut	Fill	
	4446	3412	

	1st Street Cut	Fill
2	380	67
Fir	405	59
Fir 1	4083	
2		
Grape St	536	831
Grape St 1		14294
2	523	223
Hawthorn	1003	117
Hawthorn 1	3572	
2		
Ivy	492	
Ivy	633	

Figure this again according to cross sections in book 37

Totals Cut	Fill
14687	15691

	1st Street Cut	Fill
1	530	2
2	391	5
Juniper	266	
Juniper	467	
1	370	
2	304	
Kalmia	252	
Kalmia	261	4
1	137	42
2	447	18
Laurel	383	
Laurel	78	4
1	100	22
2	304	19
Maple	~~274~~	21

Figure the following again as grades have been changed

Grand Total Cuts	Fills
23777	22810

Fir + 200 to Grape Grape

Totals Cut	Fill
4853	198

12th Street

		Cut	Fill	
145.0	1		1137	
N			792	
N			1038	
1			847	
2		22	734	
M		133	472	
M		323	246	
X		318	70	
2		314	79	
L		217	27	
L		452		
1		452		
2		229	49	
K		97	33	fig again
K				

	Cut	Fill
K	518	
1	529	
2	261	3
J	145	13
J	348	
1	244	
2	196	
I	35	53
I	226	X
1	303	3
2	86	76
H	~~30~~	~~62~~
H	79	28
1	145	18
2		

12th Street

		Cut	Fill
2		244	
G		94	38
G		96	65
1		340	4
2		78	60
F		46	60
F		66	47
1		37	63
2		61	41
E		118	40
E		605	0
1		829	
2		540	
D		64	121
1			

12th Street

		Cut	Fill
1		526	2
2		568	0
C		348	0
C		596	42
1		150	39
2		332	13
B		764	
B		700	
1		462	
2		471	
A		378	2
A		683	2
1			
Total		14868	6337
2			
A			

G Street

	Cut	Fill
Atlantic	693	693
Atl-Cal		534
	6	167
Cal	29	54
Cal-Arc	128	10
	80	25
Arc	28	81
Arc-Ind	116	35
	266	4
Ind	149	7
Ind-Col	229	
	214	
Col	109	6
Col-State	84	7
	75	18
State	57	20
State Union	218	65
		56
Union	124	3
	1906	17 85

G Street

		Cut	Fill
Union Front		158	
		181	5
Front		146	
Front-1st	(Bath)	144	
		895	
1		66	79
		10	155
1-2		19	111
2		101	14
2-3	(Bath)	120	
		241	16
3-4		150	23
		46	111
4-5		106	15
		52	19
6-7		377	
		243	14
47		35	118
7-8		69	127
		340	4
8		157	24
		3696	835

G Street

	Cut	Fill	
	47	108	
8 – 9	15	230	
9	129	8	
9 – 10	248 251	10	
10	77	169	
10 – 11	109 155	157 166	
11	122	45	
11 – 12	161 81	31 142	
12 – 13	211 260	3	
13	181	4	
13 – 14	1029 1529		
14	979	703	
14 – 15	506	2226 1712 1242	
15	5	817	figure again
	6095	7773	

G Street

Cut	Fill

G Street

	Cut	Fill
15-16	424 65	4 68
16	87	58
16-17	467 792	
17	241	121
17-18	8	968
18	37	58
18-19	17 8	535 570
19	590	
19-20	1489 1215	
20	1295	
20-21	896 394	0
21	509	
21-22	811 536	0
22	156	22
	10037	2404

G Street

	Cut	Fill
22-23 at	look 304 this 320	5 48
23	125	276
23-24	275 86	7 25
24	53	35
24-25	7709	
25	1614	
	10486	79
	1906	1785
	3696	835
	6095	7773
	10037	2404
Totals	21734 1614	12797
	20120	

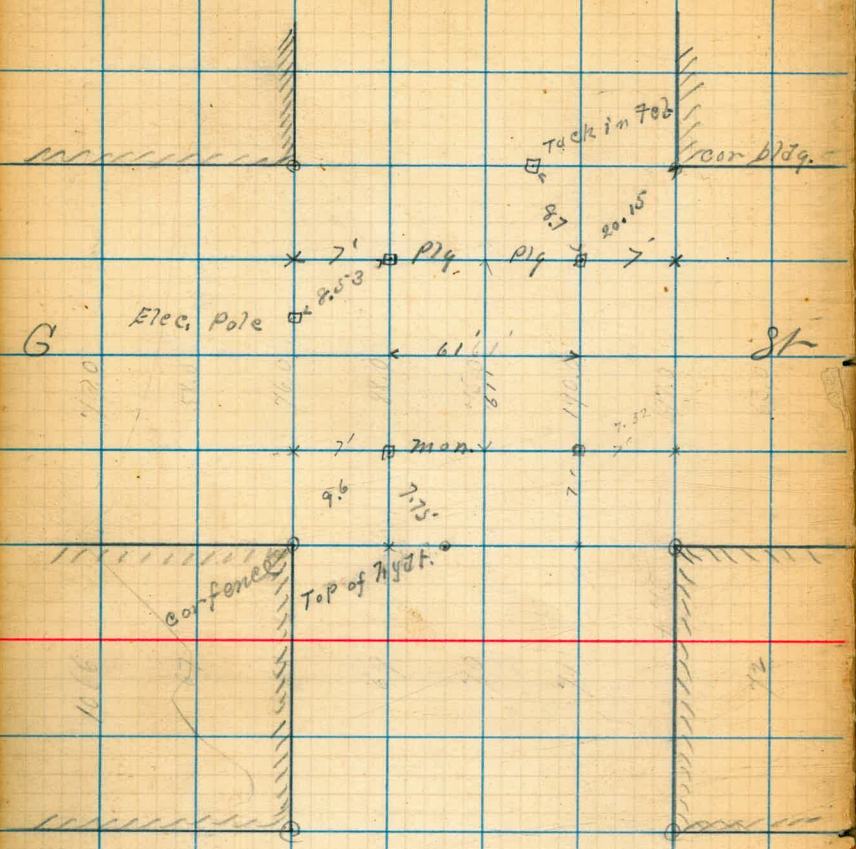
1013		29.5
14		48.5
15		55.5
16		80.0
17		115.5
18		105.0
19		43.0
20		12.0
21		3.5
	+50	28.5
22		
	+50	
23		
24		
25		
26		

K Street

Stations	Cut	Fill
3rd – 4th	16	201
	5	307
4th		
4th – 5th	121	23
	50	85
5th		
5th – 6th		
6th		
6th – 7th	22	100
	89	52
7th		
7th – 8th	53	25
	54	46
8th		
8th – 9th	28	145
	38	73
9th		
9th – 10th	142	12
	75	42

K Street

Stations	Cut	Fill
10th		
10th – 11th	141	24
	149	17
11th		
11th – 12th	191	9
	222	—
12th		
12th – 13th	223	13
	40	210
13th		
13th – 14th	140	136
14th		


Tack in Tob
cor bldg.
8.7
20.15
7'
Plg.
Plg
7'
8.53
Elec. Pole
G
St
61'
7'
mon.
9.6
7.75
7'
Top of Hydt.
cor fence

1081		295.0
82		341.5
83		488.5
	+14	0.0
	Open	
	+56	0.0
	+65	234.5
84		149.0
85		136.5
86		158.5
87		221.0
	+35	255.0
88		277.5
89		203.0
	+88	119.0
90		189.5
	+12	126.0
91		156.5
92		55.5

	1093	87.0
	+45	28.5
15.5	+52	9.0
55.5	+76	
166.5	94	
284.0	95	
310.0	+30	
219.0	96	
166.5	97	
117.5	98	
54.0	+25	
	+88	
	99	
	+20	13.0
	1100	63.0
	1	48.5

1102	48.5
3	35.0
4	45.0
5	50.0
6	63.0
7	52.0
8	59.0
9	75.0
10	79.0
11	176.5
+25	169.0
12	98.5
13	111.5
14	98.0
15	107.0
+75	149.0

1116		232.5
	+55	232.0
	+70	153.0
17		49.5
18		48.5
19		55.5

1119		55.5
20		66.5
21		66.5
22		105.0
23		94.0
24		164.0
	+55	196.0
	+65	0.0
	Open	
	+95	0.0
25	+05	230.0
26		111.5
27		150.0
28		154.5
29		170.0
30		182.0
31		195.0
32		183.0
33		204.5

1134		291.5
	+55	388.0
	+70	0.0
	Open	
	+90	0.0
35	+05	398.0
	+10	288.5
36		238.0
37		273.5
38		337.0
39		378.0
40		473.5
41		570.0
42		656.5
43		748.0
44		808.5
45		636.0
	+45	0.0
	+70	

1146		
	+30	
	+36	12.5
	+40	32.0
	+55	112.5
	+80	28.0
	+90	13.0
47		
48		
	+50	
49		
	+50	
50		
	+20	0.0
	+50	19.0
	+85	36.5

	1151	35.0
	+25	18.0
2.0	+50	6.0
0.0	52	0.0
53.5	+50	
165.5	53	
239.5	54	
129.5	55	
88.5	56	
70.0	+60	
0.0	+75	0.0
	57	10.0
0.0	+03	0.0
130.5	+25	
73.5	+50	
0.0	+75	

172.5	1158	
292.0	+50	
234.0	59	
175.0	+50	
0.0	+90	0.0
	60	9.0
	+50	105.0
	+75	0.0
	+85	
	61	
105.0	+05	
139.0	+50	
145.0	62	
	+25	
80.0	+45	0.0
0.0	+57	7.0

1162	+65	23.5
	+75	13.0
	+90	133.0
	+93	358.0
63		402.0
	+50	1214.0
	Open	
65	+77	
66		
	+10	
	+25	
	+35	
	+50	
	+80	
	+94	
67		
	+05	

1167 +10

+20

+25

+40

+85

68

+15

+50

+75

69

+20

+50

+80

70

+35

+65

1171

+20

+40

+50

+70

+80

72

Twenty fifth Street

25th Street

Sta	Cut	Fill	Sta	Cut	Fill
				6120	10700
		[illegible]	B		9000

G.H.S.
Apr 26/89

+10

73

+90

+85

+65

+50

+25

+10

1172

Preliminary Estimate

Twenty fifth Street

25th Street

Sta	Cut	Fill	Sta	Cut	Fill
				6120	10700
N	1000	200	B		9000
	25700	9600		2000	22500
M	1200	700	a	9000	5500
	24000	11000		12400	
L	100	6000	Total	29520	47700
				759660	100060
	5000	12000	Cut	789180	147760
K	1300	800			
	1000	39100			
J	4800	4000			
	74250				
I	20000				
	105450				
H	5000				
~~B~~	103200				
G	22500				
	98000				
F	18640				
	82200				
E	19500				
	89370	3000			
D	12000	2460			
	37000	8800			
C	8450	2400			
	759660	100060			

29000 Cu. Yds. Cut
~~8400~~ " " Fill

Rough Preliminary Estimate
25th Street

Calculations are made upon basis of 1' Gutters and 1' Crown with no rounding in Street.

+65

+50

+25

+10

1172

Preliminary Estimate

Twenty fifth Street

Preliminary Estimate

1172

10	
25	
50	
65	
85	
90	
	73
10	
25	
45	
65	
70	
	46
30	
50	

1174 +75

75

+15

+30

+50

+60

+85

76

Bench 2324 St.

South 23rd St

Rough Estimate
South 23rd Street
on basis of 1 foot gutter
+ 12 in Crown
Apr 23/89
G.H.D.

	Cut Cu. Yd.	Fill Cu. Yd.
Pierce	78.0 200	
	243 6500	41.0 100
Oliver	266. 7200	
	25500	
	1470 14200	
Newton	33.0 900	
	610 16400	26 700
Milton	151 4080	6.0 150
	927 25000	
Logan	Graded	
	163 4400	422 11400
Kearney		231 6240
	111 3000	259 7000
Julian	7.4 200	4 100
	104 2800	241 6500
Inter Ocean	37.0 1000	6.0 150
	1020 29800	
Harrison	4 100	475 11040
		2260 61070
	14128	10445

27 | 14128 (5230
27 | 10445 (4000

Cut 5230 Cu Yds
Fill 4000 "

Sht 11

1174 +75

75

+15

+30

+50

+60

+85

76

+10

+30

+50

+75

+90

77

+10

Bench 2324 St.

Hawthorn St from Albatross

100 feet West

Cut 268 Cu Yds

Fill 63 " "

Careful

Estimate by Hamlin Dec 22/89

1177	+50	+70	+75	78	+10	+25	+50	+75

32 to 33	877	9290	
	39912	65390	
Grand Total	73.808	169107	

E. St. PRELIMINARY

	CUT	FILL
Atlantic to 14	5916	3419
14 to 15		13346
15		
15 to 16		11242
16		4390
16 to 17		340
17	18350	
17 to 18		
18	1110	
18 to 19	180	3460
19		2580
19 to 20	99	585
20		
20 to 21	148	660
21		
21 to 22	490	121
22	190	70
22 to 23	60	1480
23	40	108
23 to 24	1960	
24	187	
	28730	41801
24 to 25	2116	
25	414	30
25 to 26	576	21686
26	930	
26 to 27	869	40000

27 to 28		
27 to 28	8900	18800
28		3900
28 to 29	9000	
29	500	200
29 to 30	2000	25000
30	725	
30 to 31	10860	
31	1955	
31 to 32	5095	7870
32		330
32 to 33	877	9290
	39912	65390
Grand Total	73808	169107

mc

Sta	Cut.	Fill.	(no nulty.)
24 to 25	1739.		
25	888.		
25 to 26	3369.	18075	
26	1244.		
26 to 27	2613	20000	
27	711		
27 to 28	600	2222	
28		1200	
28 to 29	5035		
29	788	100	
29 to 30	260	11833	
30			
30 to 31	1037		
31	888		
31 to 32	4087	3555	
32	375		
32 to 33		3600	
	23634	60585	

Connected

St from Albatross

Cu Yds

" "

Hamlin Dr.

Hawthorn St from Albatross
100 feet West

27	~~1810~~	~~178~~
27 to 28	8900	18,800
28	—	3,986
28 to 29	9000	
29	500	200
29 to 30	2000	25,000
30	725	—
30 to 31	10860	—
31	1935	
31 to 32	5095	7,870
32		
32	45,019	

	X	
24 & 25	2444	
25	850	
25 to 26	2110	5644
	1240	
26 to 27	1451	8550 2300
27	630	
27 to 28	2600	1300
28	—	
28 to 29	1860	
	13100	17790

Completed

755

TOPOGRAPHY

E. Street

E. Street
from 24th ~~St~~
33

Add, to - fill.
Sub, to - cut.
E. - Street
from 24 to 34

Hawthorn St from Albatross

100 feet West

Cut 268 Cu Yds

Fill 63 " "

Careful

Estimate by Hamlin Dec 22/89

+50	+70	+75		+10	+25	+50	+75		+85		+20	+40	+50	+60
1177			78							79				

Preliminary Estimate on "Grand" Ave

From 26th to 31st Street

	Cut	Fill
26th		
26th to 27th	3450	
		85
27th	50	
		4040
27th & 28th	1810	510
28th	380	
		4600
28th & 29th	1955	515
29th	290	
		4601
29th & 30th	1715	240
	60	90
30th		
30th & 31st	302	85
	60	10
31st		
Totals	12072	12776

Xalama Sons Kalia S

Preliminary Estimate on "Kalmia" Strut (Atlantic to Pork)

	Cub yds Cut	Cub yds Fill
Atlantic		
Atlantic to ~~Arctic~~ California	1878	70
~~Arctic~~ California	35	240
California to Arctic	815	3985
Arctic ~~to India~~		2580
Arctic to India		9186
India	220	940
India to Columbia	790	515
Columbia	260	150
Columbia to State	890	150
State Union	560	10
State to Union	1822	
Union	1320	
Union to Curlew	1840	140
Curlew	15	1855
Curlew to Brant		1925
Brant	Graded	
Brant to Albatross	100	340 2670
Albatross	45	1080
Albatross to Front	1190	120
Front	265	
Front to 1st	372	082
1st		
1st to 2nd	730	015
2nd	215	005
2nd to 3rd	3450	
3rd	552	486 106
3rd to 4th	015	9301 1040 1926

	Cub yds Cut	Cub yds Fill
4th	612	
4th to 5th	2180	
5th	Graded	
5th to Pork.	1330	
Totals	21401	38857

Preliminary Estimate on "Juniper" Strut

	Cub yds Cut	Cub yds Fill
Atlantic		897 103
Atlantic to California	85	810
California	80	115
California to Arctic	646	120
Arctic	6	385
Arctic to India	20	2720 200
India	660	90
India to Columbia	976	1392 280
Columbia	80	942 243
Columbia to State	50	5833 1000 236
State		1523 317
State to Union & Carlew		60 3870 757
Union & Carlew		1516 174
Union & Carlew to Brant	200	170
Brant	1297	
Brant to Albatross	2910	570 80
~~Brant to Front~~		
Front	210	210
Front to 1st	410	160
1st	330	
1st to 2nd	650	20
2nd	95	25
2nd to 3rd	3950	
3rd	800	65
3rd to 4th		14527 4000 3620
4th ~~5th to Park~~	45	1375 225
~~Totals~~		

Albatross	355	509 81
Albatross to Front	2832	452 98
4th to 5th	2704	
5th to Park	1122	
Totals	20513	49770

Preliminary Estimate on E Str

	Cut	Fill
Atlantic to 14th	5916	3419
14 to 15th–15th		13346
15th to 16th		11242
16th		4390
16th to 17th, 17th, 17th to 18th	18350	340
18th	1110	
18 to 19	180	3460
19th		2580
19th to 20	99	585
20		
20 to 21	148	660
21		
21 to 22	490	121
22	190	70
22 to 23	60	1480
23	40	108
23 to 24	1960	
24	187	
Total	28730	41801

West side of Atlantic to N.S. 25#

1/2 (14,440 ft) 7,220

West side of Atlantic to west side 33rd

1/2 (25,000 ft) 12,500

	cut	fill
Atlantic to 14	5916	3419
14 – 15		13346
15		
15 – 16		11242
16		4390
16 – 17		340
17	18350	
17 – 18		
18	1110	
18 – 19	180	2460
19 –		2580
19 – 20	99	585
20		
20 – 21	448	660
21		
21 – 22	490	121
22	190	70
22 – 23	60	1480
23	40	108
23 – 24	1960	—
24	187	—
Totals	28730	41801

West side of Atlantic to 11th 23rd,

1/2 (14,440 ft) 7,220

West side of Atlantic ~~to~~ inside 33rd

1/2 (23,000 ft) 12,500

West

Preliminary Estimate on "Eighth" Street

From	Cut	Fill
N to M.	60	1433 67
M	17	70
M to L	550	20
L	25.	60
L to K	120.	220
K	5.	160
K to J	210.	180
J	50.	40
J to I	400.	60
I to H	400	45
H to G	185.	280
G to F	920	146
F to E	380	134
E to D	75	590
D to C	420.	100
C	180	15
C to B	10	1200
B		380
B to A		10415 2270
	5036.	
A to Ash		2328
Ash to Beech	620	250
Beech to Cedar	1680	730
Cedar to Vale	320	210
Totals	11863	21383

+50 +65 91 +05 +20 +22.5 +37 +50

Preliminary Estimate on 29th Street R.T.H., 1' Crown 66'

	Cut	Fill
Bay Str		840 100
Bay to Colton		5500 1220
Colton	30	575 90
Colton to Topeka	2800	
Topeka	385	
Topeka to Boston	1070	
Boston	100	15
Boston Grand	1170	
Grand	315	
Grand to Natl	280	
Natl Ave	315	
Natl to Olive	343	234
Olive	70	
Olive to 1+50	250	
Totals =	7128	8574

95 +50 96 +35 +54 +57 +70 +75

Preliminary Estimate on "Nutmeg" Street

	Cut	Fill
1st	65	996 250
1st & 2nd	160	450
2nd	775	
2nd & 3rd	2605	
3rd	190	
3rd & 4th	670	
4th	91	
4th & 5th	25	375
5th		
5th & Park	350	590
Totals	4931	2661

Preliminary Estimates on Main St to 300' E of 32nd

Oliver Avenue

Sta	Cut		Fill		
18-19			232	480	
19			28	800	
19-20			324	000	
20			30	000	
20-21	12	000	204	800	
21	31	200			
21-22	209	520	1	000	
22			4	800	
22-23	22	000	18	000	
23	7	200		— 0	
23-24	56	400	17	000	
24		500		500	
24-25			48	000	
25	1	600		800	
25-26	74	000			
26	1	200			
26-27	23	360	30	960	
27			4	000	
27-28	20	000	10	000	
to Topeka Av.	60	000			Estimated

Topeka Avenue

26-27	183	680	1	900	
27			23	040	
27-28	238	400	133	200	
28	Graded		Graded		
28-29	185	000	11	700	
29	9	000			
29-30	34	160	141	600	
30	7	900			
30-31	140	800	36	800	
31			24	000	
31 to 300' E	144	000			Estimated
	1461	920	1327	380	
	68	52	47	81	

Cut 54,150 Cu Yds
Fill 50000 " "

This Estimate is taken from profiles and is only Approximate

Preliminary Estimates

"Nutmeg" Street

	Cut	Fill
1st	65	996 ~~950~~
1st & 2nd	160	~~450~~
2nd	775	
2nd & 3rd	~~2605~~	
3rd	190	
3rd & 4th	670	
4th	91	
4th & 5th	75	375
5th		
5th & Park	330	590
Totals	4981	~~2661~~

98.0 67.5 108.0 77.0 85.0 20.0 87.0 126.0

1200 1 2 3 4 5 6 7

Preliminary Estimate on Maple Street.

From Front Street to Park.

	C	T-1
Front	685	64
Front to 1st	1975	35
First	310	20
First to Second	470	20
Second	540	
Second to 3rd	1250	
Third	90	15
Third to 4th	772	670
Fourth Graded		
Fourth to 5th	65	450
Fifth to Park	415	207
Total Cut	7577	
Fill	1481	

Preliminary Estimate from Atlantic

	C	F
Atlantic	1044	~~270~~
Atlantic to California	1044	270
California	34	275
California to Arctic	170	1500 50
Arctic	80	710
Arctic to Iudia	460	2953 170
Iudia	5	1785 145
Iudia to Columbia	75	4066 440
Columbia	90	400
Columbia to State	640	142
State	30	150
State Union	30	400
Union	~~440~~	
Union to Albatross	140	276
Albatross	175	70
Albatross to Front	2163	
Front	1243	7425 2150
Front to 1st	400	
1st	362	545
1st to 2nd	4380	
2nd	1450	
2nd to 3rd	2380	
3rd	260	20

on Grape Street to Park.

		C	Fill
3rd to 4th		150	275
4th "	Graded	4100	
4th to "			
5th	Graded	710	1985
5th to Park			
Total Cut 20271			
" Fill 26092			

Preliminary Estimate for Union Str &

	Cut	Fill
Union & Arbor	49 20	
Arbor	20 70	
Arbor & Brook	13 60	
Brook Sewer	Graded	
Brook & Albatross	2 40	7 50. 1/2 800
Albatross	6 12	40
Albatross & Front	38 76	
Front	7 70	
	13868	
Front & 1st	13 80	
1st	1 80	
1st & 2nd	2 44.	90
2nd	1 00	
2nd & 3rd	9 00	
3rd	1 04	13 20. 1/2 53
3rd & 4th	6 18	10 70 1/2 60

Land Slips from Park.

	Cut	Fill
4th	5 45	
4th & 5th	9 00	
5th Sewer		
5th & Park	5 70	15
Total cut	19409	
Total fill	3824	
Excess	16405	

Figured on basis of 1/2 Br Crown

Preliminary Calculations

	cubic C	cubic F.
Atlantic		1500 ✓
		160
		1660
Atlantic to California		3940 ✓
		424 ✓
		4364
California		820 ✓
		100 ✓
		920
California to Arctic	70	600 ✓
Arctic	160	20 ✓
Arctic to India	180	340 ✓
India	370	140 ✓
India to Columb	80 ✓	
Columb	220 ✓	
Columb to State	360 ✓	20 ✓
State	360 ✓	40 ✓
State to Union	305	258
Union	225 ✓	55 ✓
Union to Brant	700 ✓	20
Brant	670 ✓	20 ✓
	3600	20
Brant to Alabama	560	220
Alabama		
Alabama to Front	450	125 ✓
Front	375	

Dry Str

	C	F
Front to First	535 ✓	115 ✓
1st Str	390 ✓	
1st to 2nd	1180 ✓	
2nd	760 ✓	
2nd to 3rd	3765 ✓	30 ✓
3rd		4640 ✓
		14380
		7020
3rd to 4th		12520
		4500
		17020
		600
		17620
4th	4780	72 ✓
4th to 5th	3533	
5th Grove		
5th to Park	3050	
Total cur	23503	
Total Fill	33664	

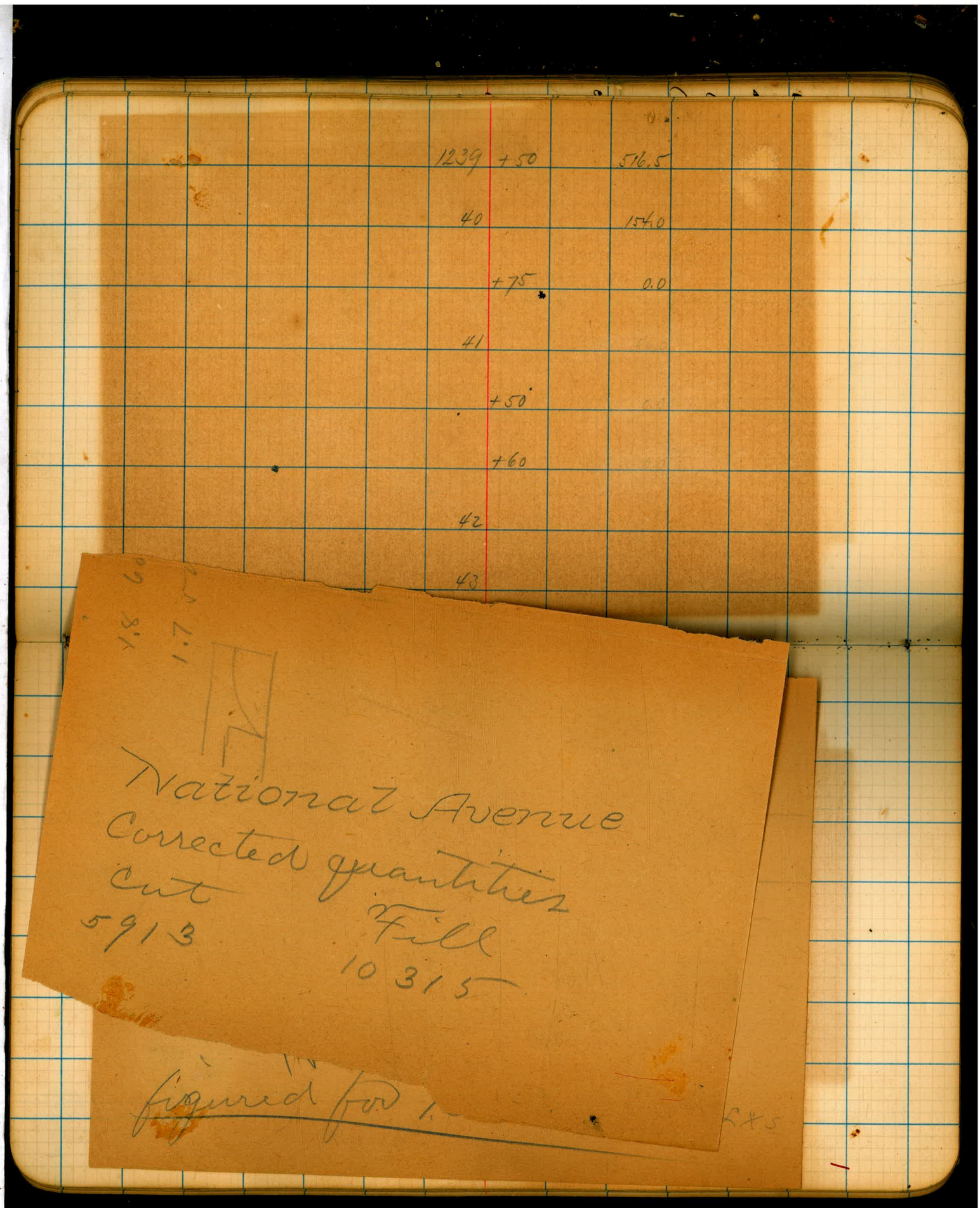
April 9th 1888 (L.D.S.)

Figured for 1/2 fr. crown — corrective mode for slopes in fills

PRELIMINARY ESTIMATE ON HAWTHORN ST.

	Cut	Fill
Calif to Arctic	1000	45
Arctic	10	260
Arctic to India	225	350
India	42	24
India to Columbia	800	
Columbia	375	
Columbia to State	645	10
State	165	15
State to Union	502	343
Union	315	12
Union to Brant	1000	
Brant to Albatross	1310	155
Albatross	385	70
Albatross to Front	3500	
Front	470	60
Front to 1st	480	810
First	760	10
1st to 2nd	4352	656
2nd		3812
		1450
		5262

	Cut	Fill
2nd to 3rd	30	15590
		5700
		2220
		600
		24110
3rd		4212
		1688
		5900
3rd to 4th	170	1770
		174
		1944
4th Graded		
4th to 5th	1250	120
5th Graded		
5th to Park	960	20
	965	
	1925	
Total Cut		19711
Total Fill		40176


1239 +50
516.5
40
1540
+75
0.0
41
+50
+60
42
43
National Avenue
Corrected quantities
Cut
5913
Fill
10315
figured for 1.

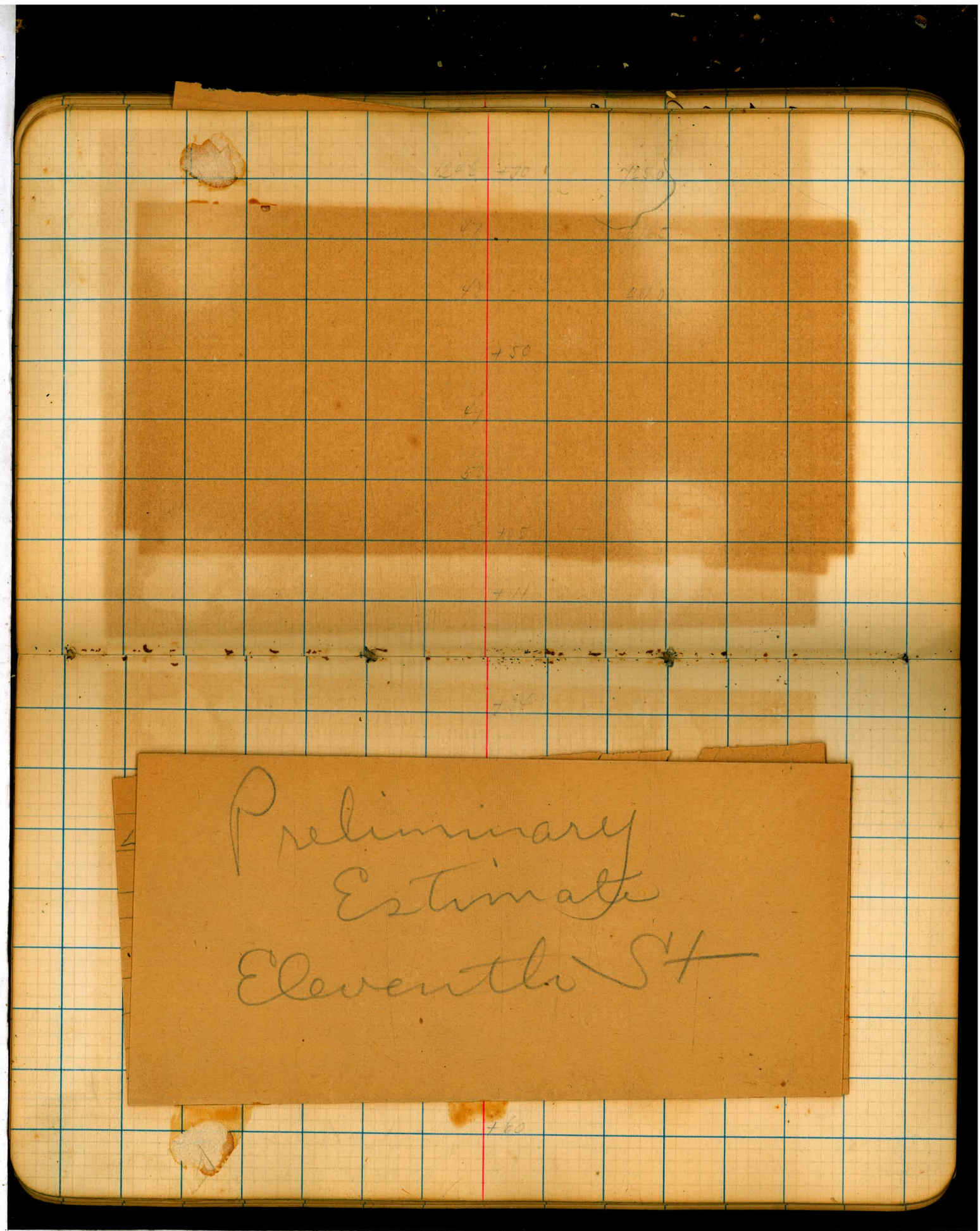
1239 + 50 576.5

29 + 30	1608	320
30	45	75
30 to 31	850	1550
Totals	5013	12655
		2340

300

National

figured for 15 crown


Preliminary
Estimate
Eleventh St

Line – N	185	300
N	490	
N – M	1470	40
M	10	90
M – L	143	300
L	145	
L – K	198	20
K – J	65	123
J – I	175	185
I – H	185	75
H – G	133	290
G – F	262	200
F – E	231	95
E	65	20
E – D	40	405
D – C	120	195
C	240	
C – B	1127	
– B	270	
B – a	1880	
a	148	148
a – Park		1300
Totals	7462	3686

Preliminary Estimate on
Eleventh St from S line of Horton's
add to S line of City Park

C Street 24th to 28th

[Nov 8, 1888]

	Cut	Fill
24th	3 10	
	37 00	
25th		9 50
	47 00	41 15
26th	1 30	3 33
	4 55	432 60
27th	12 44	
27 to 28	105 00	290 00
Totals	210 39	776 58

Olive Ave R&H
Preliminary Estimate

	Cut	Fill
26		
	20 00	2 00
27	1 50	
	5 10	27 00
28	2 76	
	40 50	
29	50	
	3 88 2 00 50	70 2 70
30	75	30
	29 20	50
31	1 25	85
Totals	107 94	34 05
32		

Figured with 1.0' crown

Call the fill 4000 yds

Preliminary Estimate on Inter Ocean Avenue

From	Cut	Fill
22nd to 23	810.	8 50
23rd	500.	
23 to 24	175 4120	9 00
24	554	
24 to 25	230	41 70 14 45
25	15	2 70
25 to 26	1280 1060	62 20
26th	141	
26th to 27	1688	30 354
27th		* 300
27th to 28	790	35
Total	11363 yds	16336 11363 4973 yds

Excess fill over cut

Estimate on basis 1' crown

(Smith)

(Slopes added)

Kearney Avenue

Preliminary Estimate

Sta	Cut	Fill
S21st		4 90
	17 52 7 70	4 00
S22d	1 00	
	13 50 89	2 30 2 40 40
S23d		80
	11 00	2 26
S24th	20	50
	12 09 1 44	6 00
S25th	70	50
	8 76 2 16	4 50
S26th	1 40	30
	21 00	1 50
S27th	75	
Totals	100 11	30 36

Figured for 1.5 crown corrected

13500 cut 2100 fill

Preliminary Estimate 22d Street

Line	Cut	Fill
N	30	3 00
N	24 70	50
N – M	17 14	1 50
M	70	1 25
M – L		18 70
L	3 62	25
L – K	36 00	12
K – J	12 00	
J – I	75	3 00
I – H	10 00	
H – G	1 80	6 00
G – F	22 10	
F – E	20 60	
E – D	7 00	2 70
	133 71	35 00
	22 00	3 80
	155 71	39 20

Sherman Road

22d Street

	Cut		Fill	
D	5	00		75
D – C	14	50	1	25
C	2	60	1	80
Total	155	81	39	20

this fill is probably a little too small say 1000 yds

Union Ave. R & H

~~1500~~ cut + 1000 fill

~~figured for 1.5 crown~~

Corrected for 1.0 crown

2200 yards cut

1500 fill

1283

+20

+45

+60

84

+45

85

+30

[illegible]	510	
[illegible]-10	150	155
10-11	460	
11	261	
11-12	560	
12-13	290	1495
13		419
13-14		2516
14	570	222
14-15	5460	
15	715	
15-16	90	120
16-17	25	1998
17		1470

Preliminary
Estimate on
C St

120

+30

85

+45

84

+60

+45

+20

1283

Sta	Cut	Fill
Mid-Colum	64	35
Column	43	
Col State	180	
State Un	120	137
Un Ft	20	260
Ft 1	10	430
1-2		546
2-3		530
3-4		570
4-5	30	440
5-6		
6-7	96	30
7-8	25	393
8-9	430	30

Sta	Cut	Fill
17=18		3900
18		1249
18-19	60	3700
19	90	618
19-20	600	518
20-21	300	1850
21-22	980	4444
22	277	170
22-23	880	20
23	50	30
23-24	620	
24	288	
Totals	14004	24295

Preliminary Estimate on "C" St. in Cu yds

Sta	Cut	Fill	Sta	Cut	Fill
India to Columbia	64	35	17	10904	12926 1322
Columbia	43		17-18		3670
Colum. State	180		18		17918 1123
State Union	120	137	18-19	112	3700
Union 2nd st	20	260	19	90	618
2nd to 1st	10	420	19-20	600	518
1-2		546	20-21	350	1850
2-3		530	21-22	980	444
3-4		520	22	277	170
4-5	20	440	22-23	880	20
				14193	26361
6-7	96	30	23	50	30
7-8	25	393	23-24	620	
8	130	30	24	310	
8-9	618		24-25	6087	
9-10	150	155	25	213	
10-11	768		25-26	2730	2560
11	266			24203	26951
11-12	776				
12-13	323	1607		Excess Fill = 4748 cu yds	
13		470			
13-14		3629			
14	355	287			
14-15	6200				
15	640				
15-16	90	120			
16-17		3757			
	10904	12926			

Park Boulevard

Preliminary Estimate

Mar 27 — 88

94

93

92

91

90

+25

89

1288

Total Cut 17372 cubic yards

Station	Cu X	Station	Cu X	Station	Cu X	Station	Cu X
1		29		57		85	
2		30	18	58	290	86	10
3		31	22	59	100	87	30
4	5476	32	110	60	—	89	—
5	925	33	20	61	—	89	—
6	150	34	—	62	—	90	—
7	370	35	—	63	207	91	—
8	74	36	38	64	333	+50	30
9	50	37	433	65	100		90
10	165	38	444	66	67		
11	330	39	102	67	74		
12		40	74	68	72		
13	820	41	—	69	90		
14		42	—	70	54		
15		43	111	71	31		
16	25	44	155	72	222		
17	25	45	310	73	115		
18	5	46	259	74	20		
19	10	47	315	75	50		
20	94	48		76	90		
21	200	49	—	77	8		
22	148	50	84	78	—		
23	190	51	37	79	144		
24	88	52	315	80	592		
25	259	53	260	81	188		
26	316	54	5	82	—		
	230		384		74		

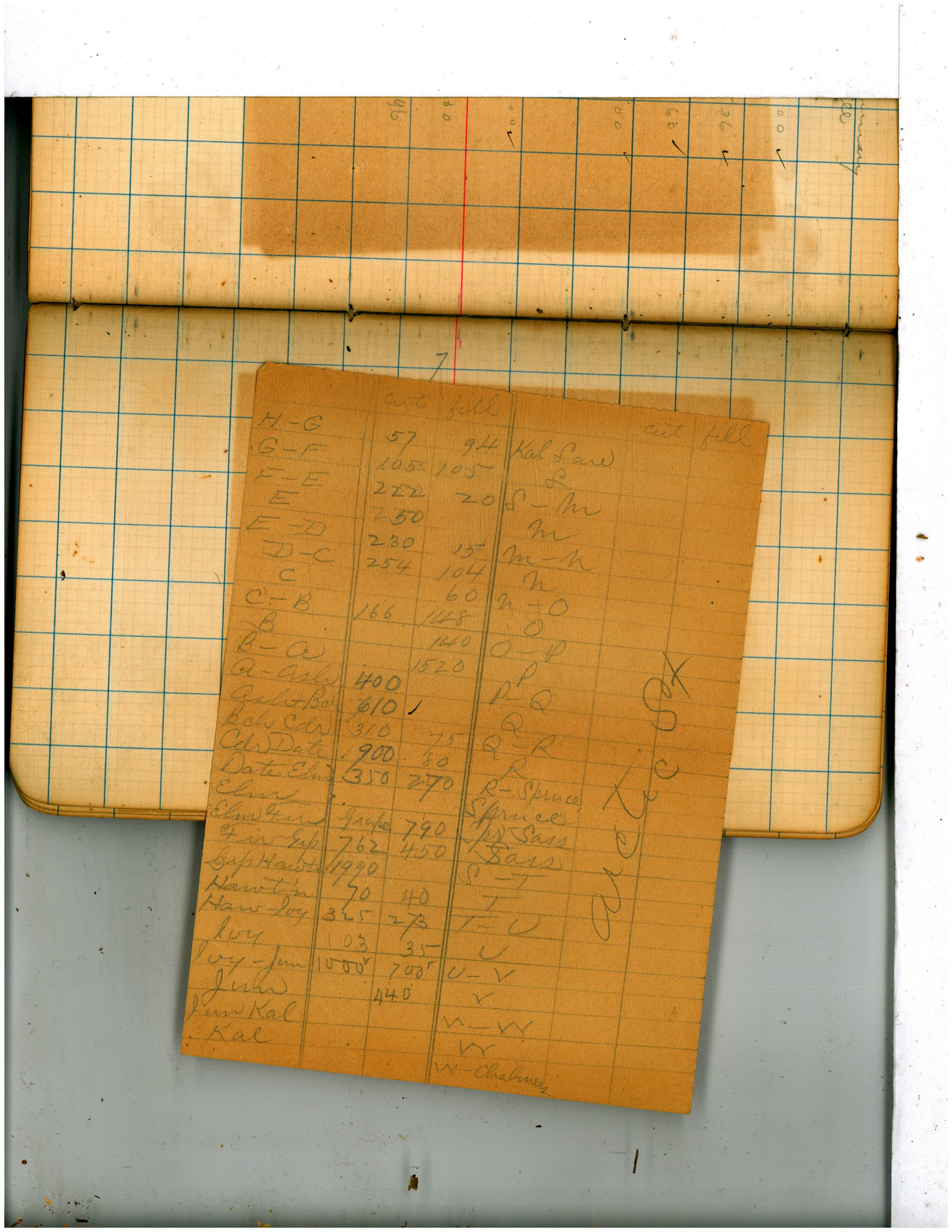
10095
4127
3080
70
17372

Elm St Preliminary

		Cut	Fill
Col	State	62800 ✓	
State			
State	Union	7056	524 00 ✓
Union			
Union	Front	70 00 ✓	15 36 ✓
Front			
Front	1st	18 00 ✓	147 60 ✓
1st			
1	2	200 00 ✓	120 00 ✓
2			
2	3	1460 00 ✓	
3			
3	4	41 60	450 00 ✓
4			
4	5		3420 00
5			
5	Park	9480 16	67696
		9186	22271

7

14


cut fill
H-G 57 94 Kal Saw
G-F 105 105 S
F-E 222 20 S-M
E 250 M
E-D 230 15 M-N
D-C 254 104 N
C 60 N-O
C-B 166 148 O
B 140 O-P
B-a 1520 P
a-Asb 400 P-Q
Asb-Bal 610 Q
Bch Cdr 310 75 Q-R
Cdr Date 900 80 R
Date Elm 350 270 R-Spruce
Elm Spruce
Elm Fir Grape 790 Spr Sass
Fir Grp 762 450 Sass
Grp Hawt 1990 S-T
Hawt in 70 40 T
Haw-Ivy 325 275 T-U
Ivy 103 35 U
Ivy-Jun 1000 700 U-V
Jun 440 V
Jun Kal V-VV
Kal VV
VV-Chalmers

Logan Ave
Preliminary Estimate

Sta	Cut	Fill
Line-21	3872	920
21st	646	
21-22	2486	300
22	64	
22-23	2850	304
23	150	
23-24	95	1175
24	20	50
24-25	2840	275
25		250
25-26	1880	190
26	70	80
26-Line	250	1700
Totals	15223	5244

Correction
18223 cut + 4000 fill

Figured for 1.5 crown

E.T.
Mar 28
1888

14th Street From A to D
Preliminary

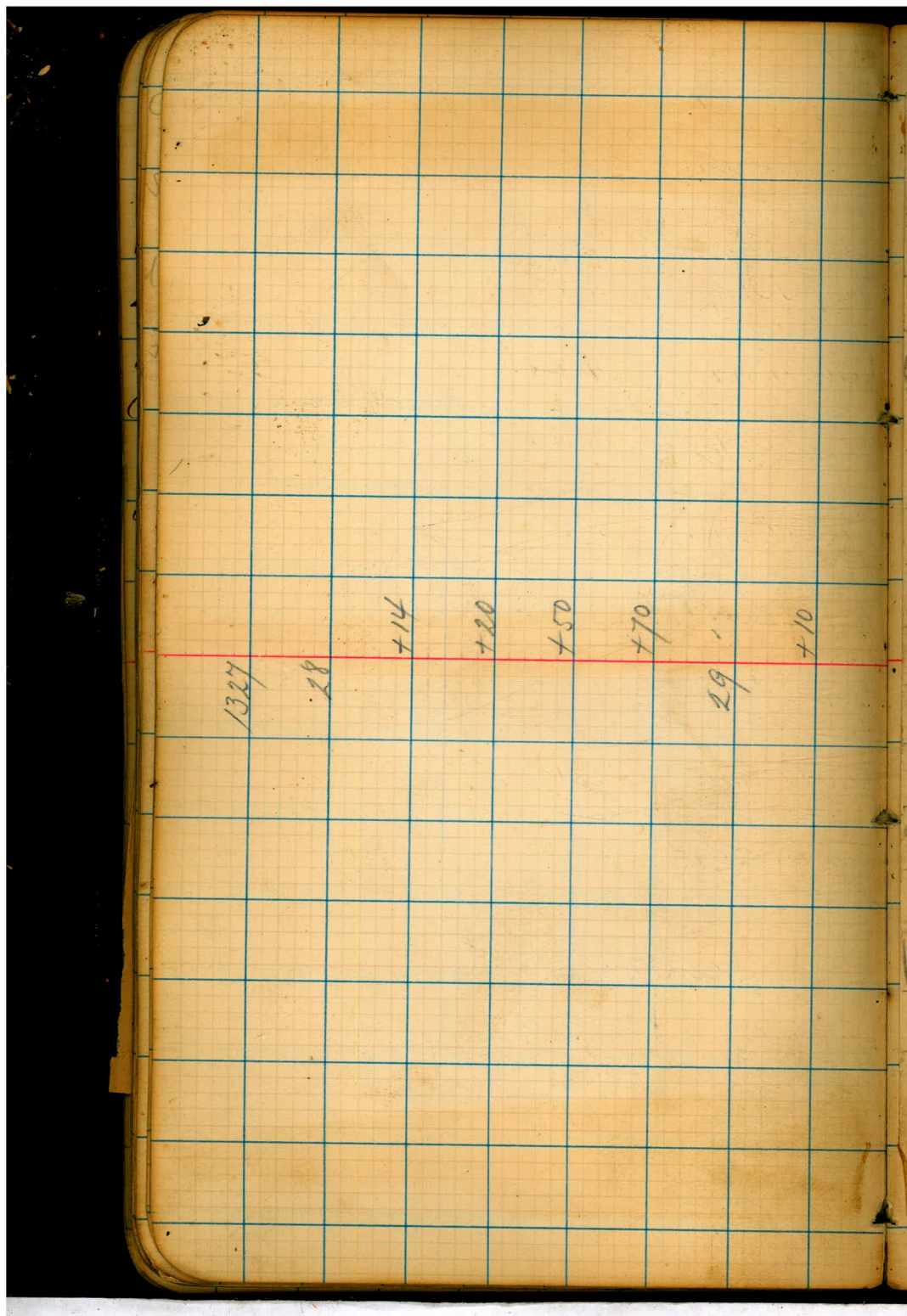
Station	Cut	Fill
A	12 24	1 00
A – B		
B	8 60	
B – C	45 00	
C	5 70	2 22
C – D	1 11	21 90 6 29 2 98
Total	72 65	34 39

5th St From Ivy to Maple
Preliminary Estimate

Station	Cut	
Ivy		
Ivy Juniper	17 87	1
Juniper	8 28	
Jun – Kalmia	14 43	
Kalmia	4 81	
Kal – Laurel	13 32	
Laurel	2 96	
Laul Maple	11 10	
Total cut	72 77	cubic yards

March 28 1888

1327 28 +14 +20 +50 +70 29 +10



28th St - Reed & Hubbell's Add.

Sta	Cut	Fill
RR-Colton	70800	100
Colton	53280	0
Colton-J	70200	2000
Topeka	27560	3450
J-B	5000	110190
Boston	9360	700
Boston-G	45900	0
Grand	7200	0
Gr-Natl	9800	800
National	3200	400
Nat-Olive	14400	300
Olive	4680	0
Olive-Boundary	7000	0
	328380	117940

Cut. Fill.

11500 Yds
4400 "

7100
14200

27 / 328380 (+1
27
58
54
24
27 / 117940 (1/400
108
99

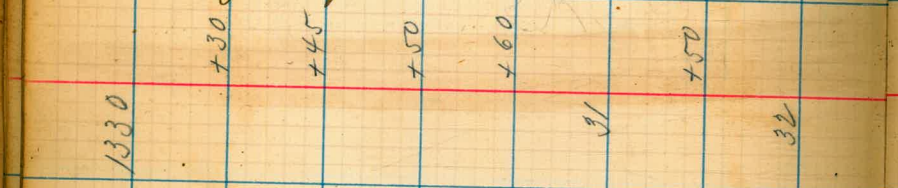
Preliminary Estimate 4/10

Elm Street

Cut 9186 @ 65	5970.90
Fill 13085 @ 50	6542.50
Haul	900.
Incidentals	600.
	14013.40

35.6 lots = 393.00 per lot

or 3.93 per foot.



Preliminary Estimates 4/10

Ivy Street

Cut 23500 @ 60	14100
Ex fill 10000 @ 45	4500
Haul	800
Incidentals	650
	20,050

58.3 lots = 344.00 per lot
or 3.44 per foot.

Hawthorn Street

Cut 19700 @ 60	11820
Extra fill 20500 @ 45	9225
Haul	1000
Incidental	700
	$22745.

55.6 lots = 409.00 per lot
or per foot 4.09

14th St.

Sta.	Cut	Fill	Yds.	
to N	–	40500		
N	–	16100		
N–M	–	44100		
M	–	15100		
M–L	500	58800		
L	–	14300		
L–K	1000	54600		
K	–	–		
K–J	2500	76200		
J	–	–		
J–I	31500	32400		
I	–	–		
I–H	70200	–		
H	–	–		
H–G	109800	–		
G	–	–		
G–F	96600	90		
F	–	–		
F.E.	30000	2700		
E	4000	4000		
E–D	200	45600		
D	200	5300	346500	409790
D–C	29000	38000		
C	29500	32000		
C–B	78000	900		
B	1700	400		
B–a	35000	800		
a	1200	600		
a–Park	12200	–	186600	72700
			533100	482490

Figured before changes
Cut 20000 yds
Fill 18000

Preliminary Estimates 4/3

Upper 5th Street

Excavation	7277@80	5821 60
Haul		200
Incidentals		400
		6421 60

2400 front feet = 2^{68} per foot.
48 lots = 134^{00} per lot.

E Street not filled out.

1338 +04 +30 +50 39 +26.8 +90 40

13th St.

Sta.	Cut.	Fill.	Yds.
to M	[illegible]0	29100	
N	[illegible]0	9850	
N-M	[illegible]0	44400	
M	0	11750	
M-L	[illegible]0	45000	
L	0	5700	
L-K	[illegible]0	28800	
K	—	—	
K-J	[illegible]500	23900	
J	11750	100	
J-I	40500	0	
I	6200	0	
I-H	2000	30000	
H	—	—	
H-G	29400	50	
G	—	—	
G-F	15000	2000	
F	—	—	
F-E	65400	0	
E	3000	800	
E-D	9000	34000	
D	2000	8500	
D-C	200	42000	
C	100	7250	
C-B	500	24900	
B	3100	3000	
B-a	40000	4600	
a	9100	3200	
a-park	31500	0	
	269250	358900	

Cut 10000 yds
Fill 13300 "

43

Preliminary Estimates 4/3

Twenty Second Street to C Street

Excavation 15581 @ 75	11685.75
Haul	500.
Incidental Expenses	700.
	12885.75

2850 feet = 1^{88} per foot
137 lots = 94^{00} " "

Logan Avenue

Excavation 18223 @ 50	9111.50
Haul	900
Incidental Expenses	700
	10711.50

7930 front feet = 1^{35} per foot
318 lots = 33^{70} " lot.

14th Street from A to D.

Excavation 8540 @ 75	6405.00
Haul	200
Incidental Expenses	400
	7005.00

1800 front feet = 3^{60} per feet
36 lots = 190^{00} per lot.

Sts. Cut Front Fill Street

J		
J-I	200	54000
I	500	1000
I H	15000	175
H	—	—
H G	19800	250
G	—	—
G F	7800	9000
F	—	—
F E	9500	8000
E	4300	580
E D	14250	500
D	—	—
D C	22200	200
C	6800	2300
C B	5000	25800
B	3500	5000
B a	51000	1000
a	—	—
Ash	30600	100
Ash	3000	800
Ash B	12300	22700
Beech	4000	1000
Beech C	43500	17000
C	—	—
Cedar D	75000	3300
Date	—	—
Date E	12000	13000
Elm	5000	800
Elm F	47400	2000
Fir	17500	2000
Fir G	21000	108000
Grape	33700	—
Grape H	30420	37000
Haw	18000	2000
Haw I	130200	—
	~~17500~~	~~20~~
	650470	317505

27/ 317505 (11800
27
47
27
205

27/ 650470 (24000
54
110

14000 Cut
11800 Fill

Preliminary Estimates 4/3

Twenty Second Street to C Street

Excavation 15581 @ 75	11685.75
Haul	500.
Incidental Expenses	700.
	12885.75

78.50 feet = 1.88 per foot
137 lots = 94.00 " "

Logan Avenue

Excavation 18223 @ 50	9111.50
Haul	900
Incidental Expenses	700
	10711.50

7930 front feet = 1.35 per foot
318 lots = 33.70 " lot.

14th Street from A to D.

Excavation 8540 @ 75	6405.00
Haul	700
Incidental Expenses	400
	7005.00

1800 front feet = 3.60 per feet
36 lots = 190.00 per lot.

+10 +19 +36 +45 +55 +63 +70

46

Preliminary Estimates 4/3

National Avenue

Excavation 5913 yds @ 50		2956.50
Extra Emb. 4400. Take from Olive		
Haul		2690.50
Incidental Expenses		700.
		6347.00

per front foot (6000) 1.06
per lot 25' (240) 26.25

Olive Avenue

Excavation 10794 @ 50		5397.00
Haul		250.
Incidentals		700
		6347.00

6000 feet = 1.06 per foot
240 lots = 26.25 per lot

Inter Ocean Avenue

Excavation 11363 @ 50		5681.50
Ex. Embankmt 4973 @ 40		1989.20
Haul		1000.00
Incidentals		700.
		9370.70

6750 feet = 1.36 per foot
270 lots = 34.00 " lot

Albatross Street

ed) .....
Contractor.

eer.

stees of the City of San Diego.

Preliminary Estimate C Street from 24th to 28th

Nov 8th 1888

	Cut	Fill
24th	310	
24th to 25th	3700	
25th		950
25th to 26th	4700	4115
26th	130	333
26th to 27th	455	43260
27th	1244	
27th to 28th	10500	29000
Totals	21039	77650
4th to 24th	14000	24200
	35039	101958

(Signed) .....

APPROVED: .....

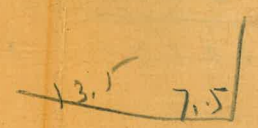
Contractor.

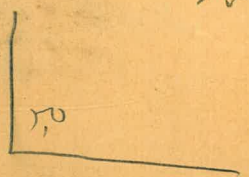
Resident Engineer.

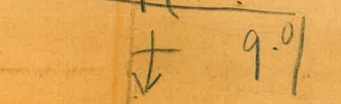
ACCEPTED: .....

President of the Board of Trustees of the City of San Diego.

SAN DIEGO UNION CO., PRINTERS.







Preliminary Estimates 4/3

National Avenue

Excavation 5913 yds @ 50		2956.50
Extra Emb. 4400. Take from Olive		
Haul		2690.50
Incidental Expenses		700.
		6347.00

per front foot (6000) 1^{06}

per lot 25' (240) 26^{25}

Olive Avenue

Excavation 10794 @ 50		5397.00
Haul		250.
Incidentals		700.
		6347.00

6000 feet = 1^{06} per foot

240 lots = 26^{25} per lot

Inter Ocean Avenue

Excavation 11363 @ 50		5681.50
Ex. Embankmt 4973 @ 40		1989.20
Haul		1000.00
Incidentals		700.
		9370.70

6750 feet = 1^{36} per foot

272 lots = 34^{00} " lot

Albatross Street

Streets	Cut	Fill
Fir - Grape	46800	2100
Grape	27720	1200
Grape - Haus	24650	20400
Haus	13200	1500
Haus - Dray	39200	17500
	176570	42700
Yards =	4700	1600

Preliminary Estimate on 3/27

Park, Boulevard

Length of Boulevard 1 7/8 Miles

Total Cut 19000 yds @ 30¢

$5700.00

Sundries 800.00

$6500.00

Brandt Street

Street	Cut	Fill
Haw-Ivy	43730	30420
Ivy	24750	600
Ivy-Juw	68740	96000
Juw	36900	900
Juw-Kal	93500	38500
Kal	4080	13440
Kal-Law	5500	48600
27	277400	228460
	yds	yds
	10300	8500

Preliminary Estimate on
3/27/88 11th Street.

Total Excavation 8000. yds
No Extra Embankment.
Cut 8000 yds @ 75¢ 6000.00
Haulage 700.00
Incidental Expenses 600.00
Total $7300.00
Average per lot
(165 lots) = $41.00

Preliminary Estimate on
"C" Str.

Total Excavation 14000. yds
Embankment 24500 "
Cut 14000 yds @ 70¢ 9800.00
Extra Embankment
10500. yds @ 50¢ 5000.00
Haulage 2000.00
Incidental Expenses 1000.00
Total $17850.00
Average per lot (111 lots) $161.00

Preliminary = I Street = Estimate.

Street	Cut	Fill	Cut	Fill	~~17-18~~
State	~~—~~	2700	3000	4720	18
State-Un	800	13900	16400	400	18-19
Union	100	2600	8000	800	19
Union-Front	325	7200	17000	28600	19-20
Front	1400	400	5020	4500	20
Front-1	3700	1400	27600	—	20-21
1	—	—	5000	—	21
1-2	6900	5250	16400	200	21-22
2	—	—	2830	200	22
2-3	100	10000	38000	1850	22-24
3	—	—	1300	2000	24
3-4	1870	3070	112400	25200	25-24
4	—	—	19200	—	25
4-5	3000	1500			~~24-23~~
5	—	—			~~25~~
5-6	—	—			
6	—	—			
6-7	1000	6100			
7	—	—			
7-8	1200	6700			
8	1800	250			
8-9	2900	6500			
9	—	—			
9-10	1400	6700			
10	—	—			
10-11	13600	500			
11	750	1000			
11-12	13000	400			
12	~~[illegible]~~	~~600~~			
12-13	13200	300			
13	6800	—			
13-14	10270	8500			
14	300	12360			
14-15	3500	127300			
15	—	13500			
15-16	500	15400			
16	~~100~~	~~3400~~			
16-17	1000	10800			
17	750	5300			
17-18	13950	5700			
	94065	275330			

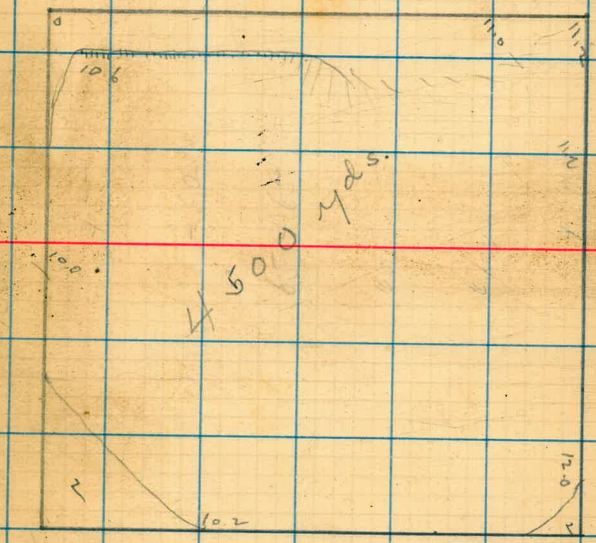
270150
94065
364215

68470
275,330
343800

Cut 13800
Fill 12900

3/10/87

Clevelands Cellar for Blackman
Spencer & McNulty
Approximate



First Estimate 7600 yds.

Beech Street = Partly fig. by Edgar.

Street	Cut (FEET)	Fill (FEET)	Cut (YDS.)	Fill (YDS.)
Atl	7500	27300		
Atl-Cal	15400	5000		
Cal	800	7080		
Cal-Arc	2000	6800		
Arc	3500	200		
Arc-Ind	11600	0		
Ind	5250	0		
Ind-Col	14800	150		
Col	3500	0		
Col-State	18000	50		
State	11950	200		
State-Union	2500	2900		
Union	13877	800		
Union-Front	34000			
Front	3290	1000		
Front-1st	750	7000		
1	0			
1-2				
2			95	75
2-3			750	0
3	0	0	132	109
3-4				
4	0	0		
4-5			862	2300
5	0	0		
5-6	0	0		
6	0	0		
6-7			640	777
7	0	0		
7-8			2780	0
8			145	230
8-9	4800			630
9	0	0		
9-10	89200	400		
10	0	0		
10-11	0	75000		
	245867	159980	5409	4121

Total Cut = 14500
" Fill = 10050
Roughly

4 Street
cut fill

Preliminary Estimate

	Cut	Fill
2d St	17000	20000
7th St	14000	9000

Exc 400 yd

Ninth Street

Station	Cut	Fill
O-N	100	29700
N	500	6000
N-M	6000	1200
M	2100	400
M-L	6000	2000
L	2000	200
L-K	7500	1800
K	0	0
K-J	8200	1700
J	1900	300
J-I	8500	1650
I	1800	700
I-H	6800	50000
H	0	0
H-G	19800	1000
G	0	0
G-F	11000	4800
F	0	0
F-E	7900	5000
E	5560	0
E-D	10000	4800
D	0	0
D-C	3900	4000
C	4950	60
C-B	27000	1000
B	0	13650
B-A	0	181850
A	0	29000
A-Ash	102600	300
Ash	4000	10000
Ash-Beech	41100	29950
Beech	8400	1200
Beech-Cedar	63000	100
Cedar	9000	150
Cedar-Date	42700	25200
	412410	374760
	3 12 10	29950

Total Cut 15274
" Fill 13880

10TH STREET

Sta	Cut Feet	Cut Yds	Fill Feet	Fill Yds
O – N	4500		300	
N	800		1200	
N – M	500		12890	
M	600		800	
M – L	10800		2000	
L	3500		300	
L – K	9800		5500	
K				
K – J	6600		10500	
J	600		8500	
J – I	6000		10550	
I	4917		175	
I – H	2400		7600	
H				
H – G	8700		23900	
G				
G – F	7800		7000	
F				
F – E	6900		9600	
E	100		5760	
E – D	30000		800	
D				
D – C	9150		3800	
C	1363		750	
C – B	29406			
B	5000		1800	
B – A	3360		64200	
A			19668	
A – Ash	10700		67800	
Ash	6400		12000	
Ash – Beech	12000		23000	
Beech	16000		11600	
Beech – Cedar	7780		9350	
Cedar	3500		2000	
Cedar – Date	50000		156000	
	376514	13900	555753	2050

Not Good

Streets	Cut	Fill
Nutmeg	350,	56
Maple	339,	205,
Olive	437,	348
Quince	170.	30
Palm	64.	330

Close Estimate

MC

10th Street

Sta	Cut Feet	Cut Yds	Fill Feet	Fill Yds
O-N	4500		300	
N-M	600		1200	
M-L	500		12890	
L-K	600		800	
	10800		2000	
	3500		3000	
	9800		5500	

Rough Estimate 4th St. Ivy to Palm

	Cut	Fill
Ivy	6900	5000
Ivy-J	82240	35500
Juniper	3000	37300
Jun-K	7800	54000
Kalmia	20300	0
Kal-L	94200	0
Laurel	14500	0
Lau-M	25000	100
Maple	2500	100
Map-N	16000	200
Nutmeg	200	0
Nut-O	18000	500
Olive	400	100
Olive-P	20000	1000
Palm	311040	143800

Cut 11000 Yds.
Fill 5300 "

16th Cut Street Fill

O-N	0	19500
N	1200	920
N-M		
M	3000	800
M-L	7200	9260
L	2400	880
L-K	13200	3072
K	—	—
K-J	29400	2700
J	5100	250
J-S	12000	7666
S	—	3417
S-H	7000	7440
H	—	—
H-G	60000	18640
G	2349	1566
G-F	5653	30000
F-E	134400	10800
E	47600	1000
E-D	7200	73200
D	—	20520
D-C	31280	28000
C	400	3600
C-B	1000	21600
B	5760	4000
B-A	20000	24000
A	32640	200
A-Ash	50000	—
	517815	284031

Feet

19180 yds. 10520 yds

26 3 40

Rough Estimate 4th St. Ivy to Palm

	Cut	Fill
Ivy	6900	5000
Ivy-J	82240	35500
Juniper	3000	37300
Jun-K	7800	54000
Kalmia	20300	0
Kal-L	94200	0
Laurel	14500	0
Lau-M	25000	100
Maple	2500	100
Map-N	16000	200
Nutmeg	200	0
Nut-O	18000	500
Olive	400	100
Olive-P	20000	1000
Palm	311040	143800

Yd. "

Cut 11000
Fill 5300

16th Cut Street Fill

0	0	19500
	1200	920

50

300
3
990

137
19
~~156~~
16

153

ESTIMATES
of
Street work