PROFILE
of
PROPOSED DRAINAGE DISTRICT
PETITIONED FOR BY
TRUSTEES OF GRANT TWP.
Buena Vista County Iowa.
1" □ 100' scale.
Geo. K. McCollough Engr.
JUNE 1912.
D. D. No. 21

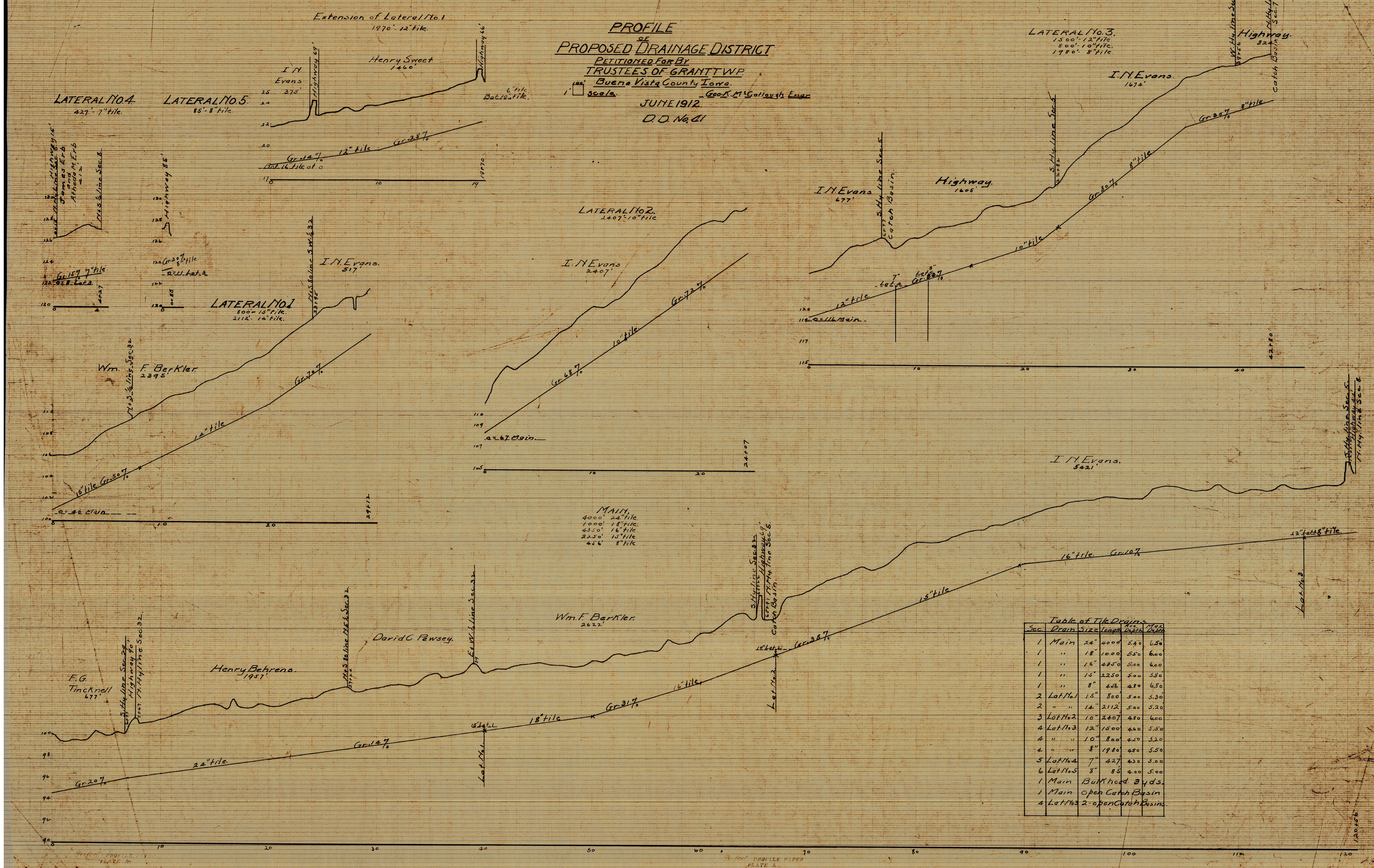
Extension of Lateral No. 1
1970' 12" tile.
I. N. Evans 375'
Highway 69'
Henry Sweet 1460'
Highway 66'
6" tile. Bot. 10" tile.
Gr. .14 %
12" tile
Gr. .28 %
Bot. 16" tile at 0
19+70
0
10
19
25
24
22
20
17
LATERAL No. 4
427' - 7" tile.
Highway 16'
N. Hy line Sec. 8
James Erb and Atheda M. Erb 412'
N. 1/2 S. 1/4 line Sec. 8
Gr. .15 % 7" tile.
0=8 Lat. 3.
4+27
0
4
130
128
126
124
122
120
LATERAL No. 5.
85' - 8" tile.
Highway 85'
Gr. .20 % 8" tile.
0=11 Lat. 3.
0+85
LATERAL No. 1
800' - 15" tile.
2112' - 14" tile.
I. N. Evans. 517'
N. 1/2 S. 80 line S.W. 1/4 32
23+95
Wm. F. Berkler. 2395'
N. 1/2 S. 1/2 line Sec. 32
15" tile. Gr. .50 %
14" tile
Gr. .70 %
0=40 Main
29+12
0
10
20
110
108
106
104
102
100
LATERAL No. 2.
2407' - 10" tile
I. N. Evans 2407'
Gr. .68 %
10" tile
Gr. .72 %
0=67 Main.
24+07
0
10
20
110
109
107
105
LATERAL No. 3.
1500' - 12" tile
800' - 10" tile
1980' - 8" tile
I. N. Evans 677'
S. Hy line Sec. 5
6+77
Catch Basin.
Highway. 1605'
S. Hy line Sec. 5
22+82
I. N. Evans. 1674'
W. Hy line Sec. 5
39+56
Highway. 324'
N. Hy line Sec. 7
Catch Basin
12" tile.
7" Lat. 4
8" Lat. 5
Gr. .50 %
10" tile
Gr. .80 %
8" tile
Gr. .30 %
8" tile
0=116 Main.
42+80
0
10
20
30
40
120
119
117
115
MAIN.
4000' 24" tile
1000' 18" tile
4350' 16" tile
2250' 15" tile
456' 8" tile
F. G. Tincknell 677'
S. Hy line Sec. 29
6+77
Highway 90'
N. Hy line Sec. 32.
7+67
Henry Behrens. 1957'
N. 1/2 S. 80 line N.E. 1/4 Sec. 32
27+72
David C. Pewsey.
E. 1/2 W. 1/2 line Sec. 32
39
Wm. F. Barkler. 2622'
S. Hy line Sec. 32
65+91
Highway 69'
N. Hy line Sec. 5.
Catch Basin.
I. N. Evans. 5421'
S. Hy line Sec. 5
Highway 66'
N. Hy line Sec. 8
Gr. .20 %
24" tile.
Gr. .14 %
15" Lat. 1
Lat. No. 1.
18" tile
Gr. .31 %
16" tile
10" Lat. 2
Lat. No. 2
Gr. .38 %
15" tile
16" tile.
Gr. .10 %
12" Lat. 3 8" tile.
Lat. No. 3.
120+56
0
10
20
30
40
50
60
70
80
90
100
110
120
100
98
96
94
92
90
Perfect PROFILE PAPER PLATE A.

Table of Tile Drains.

Sec.	Drain.	Size	Length	Ave. Depth	Max. Depth.
1	Main	24"	4000'	5.40	6.50'
1	"	18"	1000'	5.50	6.00'
1	"	16"	4350'	5.00	6.00'
1	"	15"	2250'	5.00	5.80'
1	"	8"	456'	4.80	6.80'
2	Lat. No. 1	15"	800'	5.00	5.30'
2	" "	14"	2112'	5.00	5.20'
3	Lat. No. 2	10"	2407'	4.80	6.00
4	Lat. No. 3.	12"	1500'	4.60	5.50
4	" "	10"	800'	4.50	5.20
4	" "	8"	1980'	4.80	5.50
5	Lat. No. 4	7"	427'	4.30	5.00
6	Lat. No. 5	8"	85'	4.00	5.00
1	Main	Bulkhead 3 yds.			
1	Main	open Catch Basin			
4	Lat. No. 3	2-open Catch Basins.			