Hartford Stone Co Survey

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
0		0°+0'		135'-9½"			
0		Left 24°+12'		333'-2½"			
0		Right 41°+41'		334'-9"			

April 4 – 1914

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL

Amesport Stone Co Switch — April 4 — 1914

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
B.M.	1.47	51.47		50.00			
0			4.33	47.14	47.14		
1			6.55	44.92	47.14		
+36			5.25	46.22	47.14		
2			4.27	47.20	47.20		
3			2.26	49.21	48.98		
				+78	50.23		
Peg 80	3.38	53.73	1.12	50.35			
4			10.12	43.61	50.77	48.61	
5			17.20	36.53	52.55		
+60			5.12	48.61			
				+62	53.66		
6			2.54	51.19	54.39		
Peg	9.54	61.90	1.37	52.36			
+69			6.02	55.88			
7			5.78	56.12	56.12		
8			3.95	57.95			
9			1.46	60.44			
+80			0.13	61.77	61.77		
10							
+3'-9"							
B.M.			2.09	59.81			

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL

top Stone at Water Pipe
Center of Switch Track

Hub.

2.59 → 51.14 on Rail of old track

on face of Quarry

on Rail at Hub.

Top Bolt Hub with tap on

Hubbard Stone Co. Switch — April 4 — 1914

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
B.M.	3.63	53.63		50.00			
3+70			3.52	50.11	50.23		.12
5+62			5.06	48.57	53.66		5.09

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
1½"		Stake for Grade					
5-1"		Drill Hole			"		

Wm J. Miller Dilch

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT tenths	FILL
B.M.	4.33	24.33		20.00			
0			9.57	14.76	14.76		
+50 1			4.76	19.57	14.76	4.81	4'-9 3/4"
+50 2			3.58	20.75	14.72	6.03	6'-0 3/8"
+25 3			3.20	21.13	14.70	6.43	6'-5 1/8"
+25 4			9.65	14.68	14.68		

Surveyed April 10/14

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
Raise 1½"				Shoot at Bell		5.24	below
				End Tile 4"			

Wm. J. Miller Ditch Surveyed April 10/14

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
B.M.	6.25	56.25		50.00			
			9.18	46.41			
			8.57	47.02			
0			6.25	50.00	47.25	2.75	
1			4.83	51.42	47.30	4.12	
2			4.53	51.72	47.35	4.37	
3			3.85	52.40	47.40	5.00	
4			3.25	53.00	47.45	5.55	
5			2.50	53.75	47.50	6.25	
6			1.76	54.49	47.55	6.94	
Reg 7	3.77	58.14	1.88	54.37	47.60	6.77	
8			4.18	53.96	47.65	6.31	
9			4.08	54.06	47.70	6.36	
10			4.24	53.90	47.75	6.15	
1			4.40	53.74	47.80	5.94	
2			4.50	53.64	47.85	5.79	
3			4.63	53.51	47.90	5.61	
4			4.56	53.58	47.95	5.63	
5			4.56	53.58	48.00	5.58	
6			4.82	53.32	48.05	5.27	
Reg 7	3.74	57.00	4.88	53.26	48.10	5.16	
8			3.68	53.32	48.15	5.17	
9			3.90	53.10	48.20	4.90	

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
	Nail in on Stake at Sta 0						
	on 7" tile, 150' below Sta						0
	"	"	"	50		"	0
2'-9"							
4'-1½"							
4'-4½"							
5'-0"							
5'-6½"							
6'-3"							
6'-11¼"							
6'-9¼"							
6'-3¾"							
6'-4⅓"							
6'-1¾"							
5'-11¼"							
5'-9½"							
5'-7⅓"							
5'-7½"							
5'-7"							
5'-3¼"							
5'-2"							
5'-2"							
4'-10¾"							

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
		57.00					
20			3.97	53.03	48.25	4.78	
1			4.20	52.80	48.30	4.50	
2			4.28	52.72	48.35	4.37	
3			4.40	52.60	48.40	4.20	
4			4.48	52.52	48.45	4.07	
5			4.45	52.55	48.50	4.05	
6			4.57	52.43	48.55	3.88	
7			4.44	52.56	48.60	3.96	
8			4.32	52.68	48.65	4.03	
9			4.25	52.75	48.70	4.05	
30			4.10	52.90	48.75	4.15	
1			4.40	52.60	48.80	3.80	
2			4.25	52.75	48.85	3.90	
3			4.25	52.75	48.90	3.85	
4			4.25	52.75	48.95	3.80	
			5.40	57.60	49.10		

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
4'-9½"							
4'-6"							
4'-4½"							
4'-2½"							
4'-0¾"							
4'-0½"							
3'-10½"							
3'-11½"							
4'-0⅓"							
4'-0½"							
4'-1⅓"							
3'-9½"							
3'-10¾"							
3'-10½"							
3'-9½"							

Grade is found to be 36" Tower
150' South of Sta 34

50 ft Stations

Moore & Crise Elevator Ditch [illegible] Dec 23 - 15

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	~~CUT~~ Tenths	~~FILL~~ Inches
B.M.	2.60	52.60		50.00			
			2.88	49.72			
Peg	1.52	49.58	4.59	48.06			
			12.20	37.38			
Line next to Elevator							
B.M.	2.54	52.58			50.00		
0			4.44	48.14	×39.90	8.24	8-3
1			5.43	47.15	39.70	7.45	7-5½
2			4.53	48.05	×39.50	8.55	8-6½
Peg.	1.71	49.84	4.45	48.13			
Beg. of Line from outlet							
7+25			2.65	47.19	×39.40	7.79	7-9½
7			2.35	47.49	39.35	8.14	8-1½
6			3.02	46.82	39.24	7.58	7-7
5			4.09	45.75	39.13	6.62	6-7½
4			4.33	45.51	39.02	6.49	~~6-6~~
3			4.29	45.55	×38.90	6.65	6-7¾
2			5.62	44.22	38.27	5.95	5-11
1			7.12	42.72	37.64	5.08	5-1
0			11.98	37.86	×37.00	0.86	0-10½
			12.32	37.48			

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL

Nail in West [illegible] Sill at North End of Bldg
from point to [illegible] of [illegible] 9.75

× top of old tile 6" stake at

[illegible] ft. Emb. on top of old tile Elev.

Bridge on Central Ave / Jan 24 — 1916

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
from out Side Side Walk						49.40	
to Center Street						24.70	
on Each Side of Walk 1.5' to property line							
Skew 65° 00' 115° 00' S. W. Abutments							
Width of Bridge 25'							
4 — 18" openings for Gutter Water Way							
B.M.	3.71	3.71			5.0		
			12.17	41.54			
			13.65	40.06			

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
on Sidewalk S.E. of Bridge on W. Side Walk							
to Bed of Stream							
to Stone Bottom							

Eubank et al. Road — Adams Twp.

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
Beg Near ½ N.F. South Side Sec.							
Thence East							
	Fence Line R	Fence Line L.	R.	L.			
0	16.4	16.25					
1	13.9	14.70					
2	13.9	16.4				4 Enters St	
2+12.9		Hub	Enter 2nd St.				
3	23.5	24.7	16.0	19.0			
4	21.8	25.4	15.7	20.0			
5	23.0	24.0	16.0	18.0			
6	23.9	24.0	17.0	20.0			
7	25.0	25.6	16.0	19.8	6+77 S. Side St.		
7+26					N. Side St.		
7+67.8	S. Side Big 4 R.R. property						
8+ [illegible].8	1st Rail						
8+34.3	Last Rail						
8+47.5	N. Side Big 4 R.R. property						
9+8.5	S. Side Factory St. Property						
9+29.5	S. Rail Factory						
9+ [illegible]	N Side Factory St. property						
10	25.5	24.5	18.5	17.0			

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
Bar 2nd N 40° E.							
Road South							
18½ St. East 24 North 15 South							

21.85

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
		Turn in Traverse					
10+85½	R 2	S. Side of alley	R 2				
10+97¾	71	" "	"				
11	26.0	29.5	20.0	18.0			
11+	97/4	S. Side of St.					
12	26¾	24¾	18¾	18.0			
12+37¼		N. Side St.					
13	26½	25½	20.0	18.0			
13+52½		S. Side alley					
13+68½		to Hub.					
13+70		N. Side alley					
14	24.0	21.0	20.0	17.0			
14+76		to Hub at Turn.	Witness nail				
14+76	27.0	12½	21.0	6.0	to R 49° + 10' or 11		
15	17½	16.0	12¼	16.0			
16	16.0	12½	11.0				
16+78½		to N. Side alley coming from S.					
16+93½		to E. " "					
17	17.0	12.0	12.0				
17+38		to Hub at turn of Road					
17+25		Culvert good.					
18	15.0	14.0					
18+86½		to Intersection of Sts.					
19	20½	12.0					

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL

Witness Maple Tree E 1 19.9' Blacksmith Shop N. 28.3

Stake in Line S. 9.53 nail in Stake N. 21.85'

R 49° 51' or S 20° E.

STA.	B.S.	H.I.	F.S.	ELEV.	GRADE	CUT	FILL
	R. Fence Line		R. Fence Line				
19+10	3/4	to Hub at Turn					
19+35	1 1/2	S. Side of Road East					
20	4 1/4	17 1/2	8.0	11 1/2			
20+70		N. Side alley West					
20+83	1/4	S " "					
21	15 1/4	19 1/2	10.0	12 1/2			
22	16.0	19 1/2	11.0	14.0			
22+8		N. Side of St alley					
22+15	3	" " " alley					
22+50	3	" " " St.					
23	18.0	19 1/2	12.0	13 3/4			
23+45		N. " alley					
23+56	3	" " "					
24	19.0	21.0	11.0	15 1/2			
24+62		N. Side of St at Track Line					
24+8	23 1/4	Inside 1st Rail of Track					
25	20.0	23 3/4	13.0	19.0			
25+10		S. Side of St at Fence Line					
25+70		N. Side Right of Way Line					
25+81	12	Rail of 2nd Track					
25+93	4	" " " "					
26	20.0	25.0	12 3/4	20 1/2			
26+12	12	1st Rail of 2nd Track					

STA.	B. S.	H.I.	F. S.	ELEV.	GRADE	CUT	FILL
41+50	" on S		3 9/10				

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
	[illegible] Water Line						
26+36	Pt. to Lig of Property Line on E. Side						
26+43	" " " " " " on N. Side						
27	20.0	25.0	13 3/4	19.0			
27+16½	to N. Side St.						
27+69	to S " St.						
28	20½	26.0	14¼	20½			
28+67	to N. Side alley						
28+79½	to S " "						
29	21¾	26.0	15.0	20½			
29+79	N. Side St. or alley						
30	22½	25.0	14½	19½			
30+5	to S. Side of St. or alley						
31	22½	26.0	15.0	18¼			
32	23.0	25.0	15¾	18.0			
32+18	N. Side St.						
32+55½	S " "						
33	22.0	25¼	15¾	18.0			
34	23¼	25.0	16¼	18¾			
35	25.0	24¾	16.0	18.0			
35+10	to N. Side St.						
35+53	to S " "						
36	25.0	24½	17.0	18½			

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
	fine line R	fine line L	fine line R	fine line L			
37	25.0	24.0	16 3/4	17 3/4			
3/8	25 1/2	24.0	17 1/2	17 1/2			
38+9 1/2	±	Intersection of Turnpike					

Defense Act.

Self Paid Hotel Bill 1 40

" " Horse feed 0 50

" " D Holmes 4 00

Self for work

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL

Embank Road Adams, Adams Township.

Left, Right & ℄

STA.	B.S.	H.I. Elev.	F.S. Elev	ELEV.	GRADE	CUT	FILL
B.M.	Side Walk			10.00			
0		8.75	8.80	8.88	Nail in Nor Maple. Sta. 0		
1		8.40	8.60	8.75			
2		8.55	7.85	8.60	St. right		
3		7.35	8.00	8.15			
4		7.45	7.50	7.92			
5		7.05	7.00	7.95			
6		5.55	6.45	7.19			
7		5.80	6.20	6.40	St.	St. flat	
8		6.35	6.10	6.34	Sewer O.K. Water goes W.		
R.R.	Snail	Main track		6.67	Big 4		
"	"	1.2nd	"	6.47	"	4	
"	"	" 3rd	"	6.47	"	4.	
9		2.00	6.65	7.10			
I.C.	Snail	track		7.15			
10	7.03	6.70	7.00	7.54			
11	7.17	6.70	7.30	8.30			
12	7.77	7.75	8.00	8.50		8" SG. and mds.	
+20	P.L. 8.00	7.85	8.75	8.60	P.L. 8.75	St. Int	
13		8.65	8.20	8.81			
+80	8.45	8.60	8.55	8.75	P.L. 8.55		
14		8.25	8.55	8.95			
15		8.20	8.90	9.50			
16		9.05	8.65	9.20			

Adams Township.

Left, Right & ℄

STA.	B. S.	H.I. Ditch	F.S. Ditch	ELEV.	GRADE	CUT	FILL
17		8.85	7.75	8.55		pike int.	
+40		6.60	8.75	8.89	7	End Concrete	
BM				10.08		N. end W. wall Culvert.	
18		7.35	7.80	9.15		Screenings	
19		8.78 Pike	8.70	8.92		W. Hoppy East Int Pike	
20		8.30	8.77	9.06		14' Stone	
21		9.42	9.38	9.04			
22		9.50	9.73	10.20	P.L.		
+30		9.50	9.74	10.05	9.85 Walk	St int	
23		9.20	9.51	10.00	9.67		
24		9.05	9.35	9.95	St	along side St.	
I.C.	Snail.			9.15	P.L.		
25	P.L. 9.30	9.05	8.25	9.20	8.67		
NYC	track	Nail		9.70			
62	"	S	"	9.84			
Main	"	S	"	8.13	OK. sewer S. RR		
27		9.00	9.30	9.60			
+20		6.90	9.60	9.55	9.45	St. West	
28		6.00	6.25	6.90			
29		5.45	5.60	6.58			
30		5.55	5.76	6.50			
31		5.00	5.15	6.40		Grade 16' wide.	
32		4.65	4.85	6.05	36' P.L.	12" Sewer.	
+40		4.50	5.70	6.10	5.40	Road West	

Ditch No 1 — 8" Tile

Canal Loan Ditch — Feb 14 - 1926

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
B.M.	4.05	54.05		50.00			
~~0~~			7.50	46.55			
0			4.05	50.00	46.55	3.45	3'-5½"
1			3.75	50.30	46.55	3.75	3'-9"
2			3.32	50.73	46.55	4.18	4'-2"
3			3.45	50.60	46.55	4.05	4'-0½"
4			3.75	50.30	46.55	3.75	3'-9"
5			4.10	49.95	46.55	3.40	3'-4"
6			4.40	49.65	46.55	3.10	3'-1"
7			4.64	49.41	46.58	2.83	2'-10"
8			4.50	49.55	46.60	2.95	2'-11½"
9			4.45	49.60	46.62	2.98	2'-11¾"
10			4.40	49.65	46.65	3.00	3'-0"
1			4.12	49.93	46.68	3.25	3'-3"
2			3.92	50.13	46.70	3.43	3'-5"
3			4.00	50.05	46.86	3.19	3'-2¼"
4			3.40	50.65	47.02	3.63	3'-7¾"
Sta 5	5.27	55.89	3.43	50.62	47.15	3.44	3'-5¼"
6			4.90	50.99	47.34	3.65	3'-7¾"
7			4.75	51.14	47.50	3.64	3'-7¾"
8			4.65	51.24	47.66	3.58	3'-7"
9			4.20	51.69	47.82	3.87	3'-10½"

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
Nail in Stake No 1 Bot. of Ditch at outlet							
8'-4¾"	Sol.						

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT Tenths	FILL Inches
		55.89					
20			3.70	52.19	X 48.00	4.19	4'-2½"
1			3.10	52.79	48.53	4.26	4'-3"
2			2.70	53.19	49.07	4.12	4'-1½"
3			1.92	53.97	49.60	4.37	4'-4½"
Sta 4	5.66	60.53	1.02	54.87	50.14	4.73	4'-8¾"
5			4.65	55.88	50.67	5.21	5'-2½"
6			4.22	56.31	X 51.20	5.11	5'-1¼"
7			4.25	56.28	51.26	5.02	5'-0¼"
8			4.07	56.46	51.32	5.14	5'-1½"
9			3.88	56.65	51.38	5.27	5'-3"
30			4.10	56.43	51.44	4.99	4'-11¾"
1			4.15	56.38	51.50	4.88	4'-10½"
2			3.50	57.03	Grnt Mark Thru		
3			4.30	56.23	51.62	4.61	4'-7¼"
4			4.80	55.73	51.68	4.05	4'-0½"
5			5.20	55.33	51.78	3.55	3'-6½"
6			4.85	55.68	X 51.80	3.88	3'-10½"

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL

Brt Ditch 4' Lower.

6" Tile

Orange Logan Ditch — 102 — Feb 14–1916

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT Tenths	FILL Inches
B.M.	6.92	57.57		50.65			
0			6.92	50.65	47.02	3.63	3'-7½"
1			7.02	50.55	47.39	3.16	3'-2"
2			6.40	51.17	47.76	3.41	3'-5"
3			5.95	51.62	48.13	3.49	3'-6"
4			5.68	51.89	48.50	3.39	3'-4½"
5			5.35	52.22	48.97	3.25	3'-3"
6			4.95	52.62	49.45	3.17	3'-2"
7			4.18	53.39	49.92	3.47	3'-5½"
8			3.22	54.35	50.90	3.45	3'-11½"
9			2.22	55.35	50.58	4.77	4'-9"
10			3.70	53.87	Dont Work Tenths		
1			3.03	54.54	50.95	3.59	3'-7"
2			3.15	54.42	51.14	3.28	3'-3¼"
3			2.97	54.60	51.32	3.28	3'-3¼"
4			2.58	54.99	51.50	3.49	3'-6"
Rg 5	5.35	61.07	1.85	55.72	51.75	3.97	3'-11¾"
6			4.60	56.47	52.00	4.47	4'-5½"
7			3.73	57.34	52.25	5.09	5'-1"
8			3.30	57.77	52.50	5.27	5'-3"
9			3.95	57.12	52.55	4.57	4'-6¾"
20			4.56	56.51	52.60	3.91	3'-11"

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
0							

Set Stake No 19 on Ditch No 1
Rg. 5 Ditch at Sta 19

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
21			4.90	56.17	52.65	3.52	3'-6"
2			4.95	56.12	52.70	3.42	3'-5"
3			4.90	56.17	52.75	3.42	3'-5"
4			4.30	56.77	52.80	3.97	3'-11 3/4"

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
			3½' Keeper for Bot Dr.				

Ditch No 1

Geo Logan Ditch Survey

Phone # 3311 - K

March 10 - 1916

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT tenths	FILL inches
B.M.	4.77	24.77		20.00			
			8.37	16.00		to Stone	
0			5.40	19.37	X16.00	3.37	3'-4½"
1			5.90	18.87	16.05	2.82	2-9¾
2			5.51	19.26	16.10	3.16	3-2
3			5.18	19.59	16.15	3.44	3-5½
4			5.18	19.59	16.20	3.39	3-4¾
5			4.96	19.81	16.25	3 56	3-6¾
6			4.65	20.12	16.30	3.82	3-9¾
7			4.48	20.29	16.35	3.94	3-11½
8			4.22	20.55	16.40	4.15	4-1¾
9			4.18	20.59	16.45	4.14	4-1¾
Sig 10	5.20	25.89	4.09	20.69	X16.50	4.19	4-2½
1			5.43	20.46	16.76	3.70	3-8½
2			5.68	20.21	17.03	3.18	3-2
3			5.10	20.79	17.29	3.50	3-6
4			4.85	21.04	17.56	3.48	3'-5¾
5			4.53	21.36	17.82	3.54	3-6½
6			4.34	21.55	18.08	3.47	3-5½
7			4.07	21.82	18.35	3.47	3-5½
8			3.71	22.18	18.61	3.57	3-6¾
9			3.56	22.33	18.88	3.45	3-5½
						71.34	
						3.75	

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
		on top Stake No 0					
		Top Water + to Stone 0.8 Inner					

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
		25.89					
20			3.49	22.41	19.14	3.27	3 - 3¼
1			3.00	22.89	19.41	3.48	3 - 5¾
2			2.63	23.26	X 19.70	3.56	3 - 6¾
peg 3	6.68	30.39	2.18	23.71	19.97	3.74	3 - 9
4			1.88	24.51	20.55	3.96	3 - 11½
5			5.10	25.29	21.02	4.27	4 - 3¼
6			4.95	25.44	21.50	3.94	3 - 11¼
7			4.81	25.58	21.97	3.61	3 - 7¼
8			4.35	26.04	22.55	3.49	3 - 6
9			3.15	27.24	23.02	4.22	4 - 2¾
30			2.58	27.81	X 23.50	4.31	4 - 3¾
1			2.64	27.75	23.56	4.19	4 - 2¼
2			2.95	27.44	23.62	3.82	3 - 9¾
3			3.00	27.39	23.68	3.71	3 - 8¾
peg 4	5.52	32.86	3.05	27.34	23.74	3.60	3 - 7¼
5			5.31	27.55	23.80	3.75	3 - 9
6			5.25	27.61	23.86	3.75	3 - 9
7			5.27	27.59	23.92	3.67	3 - 8
8			5.10	27.76	X 24.00	3.76	3 - 9
9			4.58	28.28	24.50	3.78	3 - 9¼
40			4.02	28.84	25.00	3.84	3 - 10
1			4.05	28.81	25.50	3.31	3 - 3¾
						83.03	
						3.96	

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
		32.86					
42			3.55	29.31	26.00	3.31	3-3½
3			2.78	30.08	26.50	3.58	3-7
4			2.12	30.74	X27.00	3.74	3-9
5			1.90	30.96	27.25	3.71	3-8½
pg 6	6.38	37.64	1.60	31.26	27.50	3.76	3-9
7			5.84	31.80	27.75	4.05	4-0½
8			5.72	31.92	28.00	3.92	3-11
9			4.78	32.86	28.25	4.61	4-7½
50			5.02	32.62	X28.50	4.12	4-1
1			4.50	33.14	28.62	4.52	4-6
2			4.94	32.70	28.75	3.95	3-11½
3			5.17	32.47	28.87	3.60	3-7½
4			4.78	32.86	29.00	3.86	3-10½
5			4.78	32.86	29.12	3.74	3-9
6			4.55	33.09	29.25	3.84	3-10
pg 7	6.80	39.92	4.52	33.12	29.37	3.75	3-9
8			6.40	33.52	X29.50	4.02	4-0½
9			5.80	34.12	29.90	4.22	4-2½
60			5.35	34.57	30.30	4.27	4-3½
1			5.15	34.77	30.70	4.07	4-0½
2			4.85	35.07	31.10	3.97	3-11½
3			4.50	35.42	31.50	3.92	3-11
						86.63	
						4.12	

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
		39.92					
64			4.45	35.47	31.90	3.57	3-6½
5			3.53	36.39	32.30	4.09	4-1
6			2.85	37.07	32.70	4.37	4-4½
7			2.42	37.50	33.10	4.40	4-4½
pg 8	6.30	44.20	2.02	37.90	33.50	4.40	4-4½
9			5.65	38.55	33.90	4.65	4-7½
70			5.22	38.98	X 34.30	4.68	4-8
1			4.65	39.55	34.32	5.23	5-2½
2			4.12	40.08	34.34	5.74	5-9
3			3.76	40.44	34.36	6.08	6-1
4			4.07	40.13	34.38	5.75	5-9
5			4.59	39.62	34.40	5.22	5-2½
6			5.11	39.09	34.42	4.67	4-8
7			5.27	38.93	34.44	4.49	4-6
8			5.48	38.72	34.46	4.26	4-3
9			5.90	38.30	34.48	3.82	3-9½
80			6.30	37.90	X 34.50	3.40	3-4
			6.70	37.50			
						78.82	
						4.80	

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL

Ditch No 2 starts

12" Tile Low place on Ditch Line

Geo Logan Ditch No 2 — Surveyed March 10 – 1916

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
B.M	6.23	42.62		36.39			
0			6.23	36.39	32.30	4.09	4-1
1			5.65	36.97	32.77	4.20	4-2½
2			5.22	37.40	33.24	4.16	4-2
3			4.65	37.97	33.71	4.26	4-3
4			4.05	38.57	34.18	4.39	4-4½
5			3.65	38.97	34.65	4.32	4-3½
6			3.30	39.32	35.12	4.20	4-2½
7			2.95	39.67	35.59	4.08	4-1
8			2.60	40.02	36.06	3.96	3-11½
9			2.38	40.24	36.53	3.71	3-9
10			1.80	40.82	37.00	3.82	3-9½
1			1.70	40.92	37.05	3.87	3-10½
2			1.75	40.87	37.10	3.77	3-9
3			1.60	41.02	37.15	3.87	3-10½
Aug 4	3.38	44.10	1.90	40.72	37.20	3.52	3-6
5			3.25	40.85	37.25	3.60	3-7
6			3.30	40.80	37.30	3.50	3-6
7			3.95	40.15	37.35	2.80	2-9½
8			4.30	39.80	37.40	2.40	2-4½
9			5.30	38.80			
20			5.85	38.22			
1			6.05	38.05		74.52	
						4.14	

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
at Sta 6.5 on Ditch No 2							
" " 6.5 "							
3' depth possible							

Anderson St. Bridge

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
Length of Bridge				65.7'			
Rail		Hub		11.7'			
Top of		abt.		2.0'			
Height from abt. Top.				2.65'			
Front face abt. 6.4'		5.0'		Cement Walk on S. side of Bridge 5.0' Walk in Middle			
				Banisters at End.			

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL

Eubank Road

(Continued)

STA.	B. S.	H. I.	F. S. Left Cut	F. S. Right Cut	ELEV.	GRADE	CUT	FILL
30		4.75	4.65	6.20	7.35		+ 8.0'	
34		4.55	4.85	6.90				
35		6.95	5.70	7.05				
38		7.00	6.95	7.75				
39		10.55	10.00	10.70		Stone		
BM				12.91		Top N. ½ cor. top step Christian Church		
38		12.05	11.70	12.15				
+91½				12.30				

Sta 0 to 17+40 Concrete 16' wide
" 17+40 19 3" Screenings
" 19 to 39+91½ Crushed Stone 14' wide

River washed Gravel or Crushed Stone equal to St Paul
limestone in quality

Eobank Road

Water-Bound Macadam 8"-10" x 14'-0" wide

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL

Items

Stone .65 at quarry.
Screenings .65 + 30 " "
Spreading Stone and Screenings
Sprinkling and rolling
Culverts —
47 ft. corrugated Steel " @
Concrete on Twin 24" 8" "
36 ft 12" Ingot Iron @
36 ft 8" " " @
Total cost of Culverts
Grading and Rolling Sub grade

Totals

Stone 1500 cu. yds. @
Screenings 720 " " @
Spreading Stone and Screenings 1500 " " @
Sprinkling and rolling
Culverts
Grading and rolling Sub grade
Profit
Total Cost of

Superintending and Making Survey for location
Viewers, Engr. Report

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL

Haul or freight = .175 per cu. yd.
" " " = 1.75 " " "
" " " = .25 " " "
Total 300.00

.25 per ft. = 55 00
yds @ 822 = 65 00
Total 120 00
.65 = 37 80
.80 = 28 80
= 186.60 300 00

.175 per cu yd. = 262 50 00
1.75 " " " = 735 00
.25 " " " = 375 00
= 300 00
= 200 00
= 300 00
Construction = 4535 00
Profit 25% = 1130 00
Engineering
Total Est. =

Eubank Road (continued)

Concrete 6"-8" x 16'-0" wide.

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL

Items

Cement @ 1.75 per bbl. + haul = about .60 per sq yd
Water — .15 per cu yd
Reinforcing — .07 per sq. yd.
Expansion joint — .02 " " "
Steel plate
Stone + cost labor 1.50 per cu yd
Total + labor = 3.50 per cu yd or 1.75 per sq. yd.

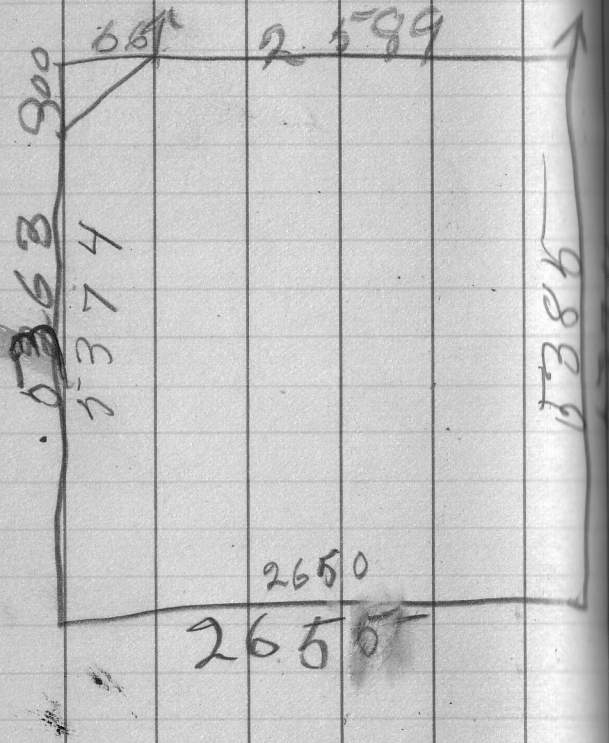
Totals.

Concrete 6812 sq. yds. @ 1.75 per sq yd = 11921.00
Culverts = 200.00
Grading and rolling Sub. grade = 300.00 300.00
Screenings 22 cu yds @ 1.75 = 38.50
Total Cost of Construction = 12459.50
Profit 25% = 3114.87
Superintending and Engineering
Making Survey for Location
Viewers, Engineer and Cost Report
Total Estimate =

Note: 1.75 per sq. yd covers the grading + rolling Subgrade.

B. D. Kennett.

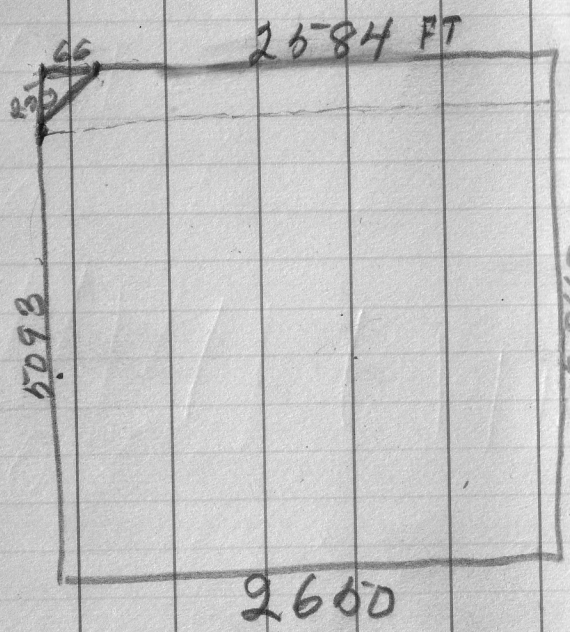
STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL



STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
			25-19				
			66				
			24 55				
			66				
			2587				

2650
66
2584

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL



STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL

East Line

625 F S E Corner

North Line

cornfield

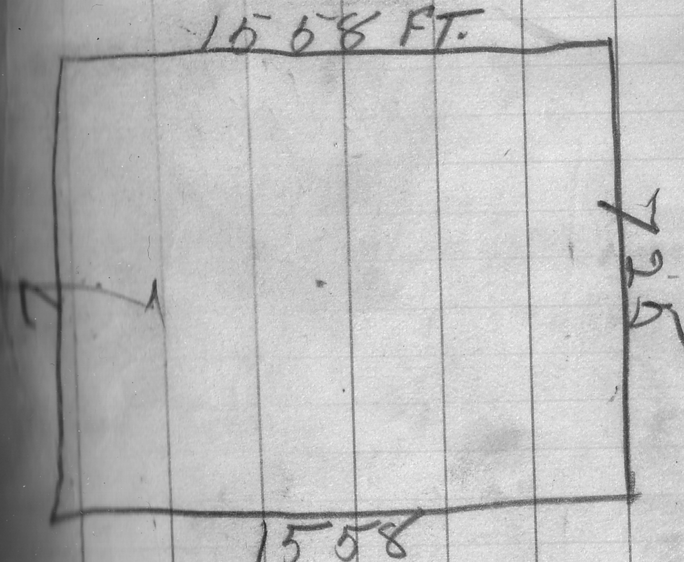
87 cornfield

158

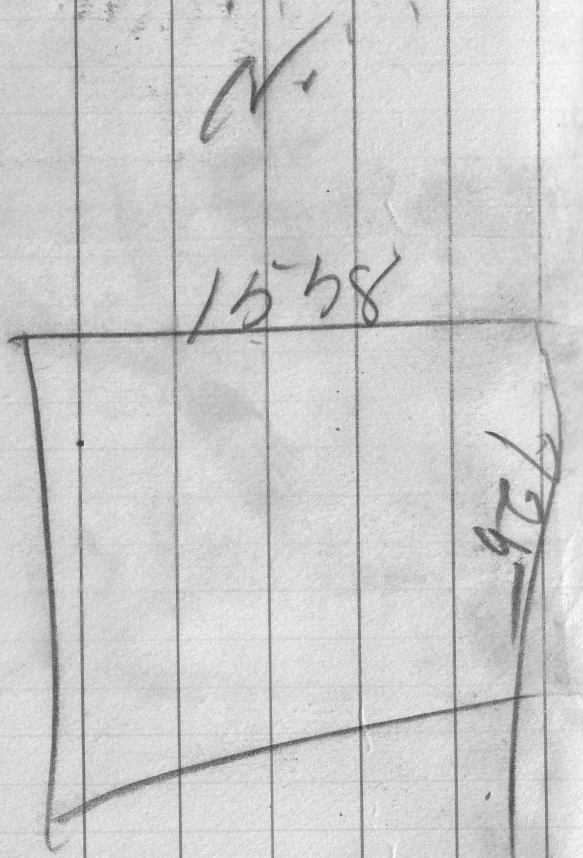
1558

North Line

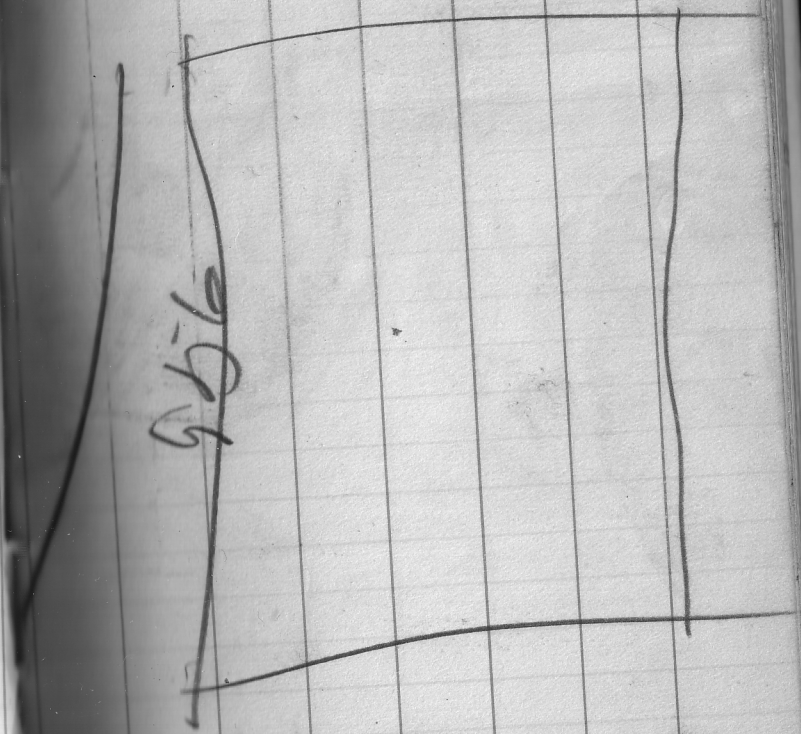
STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL



STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL

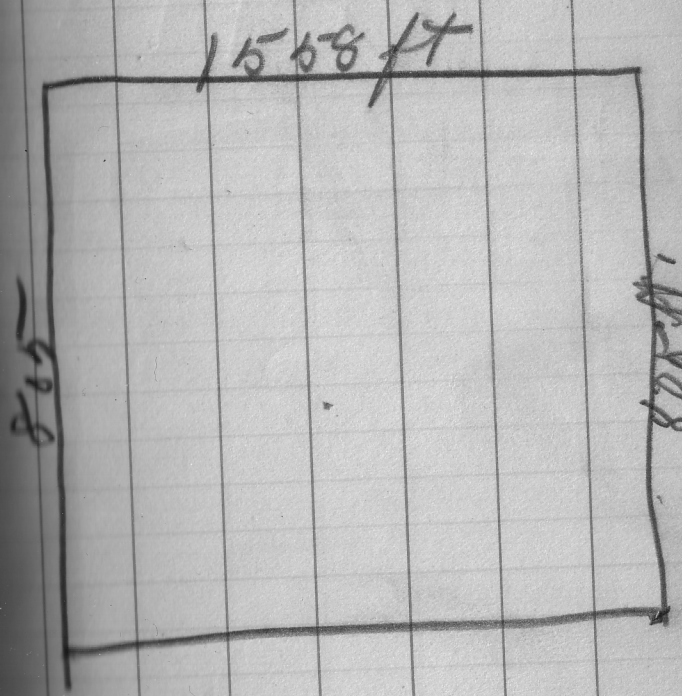


STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL



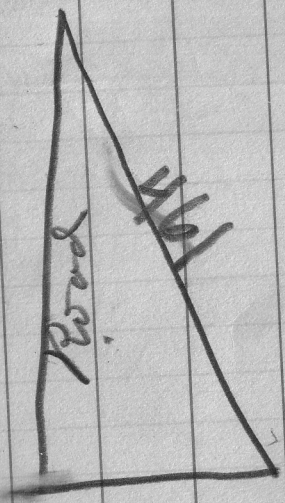
STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL



STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
				1500			

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL



STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL

North

1558

17

1575

29,106 Acres

805

805

1568

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL

111

North

170

1

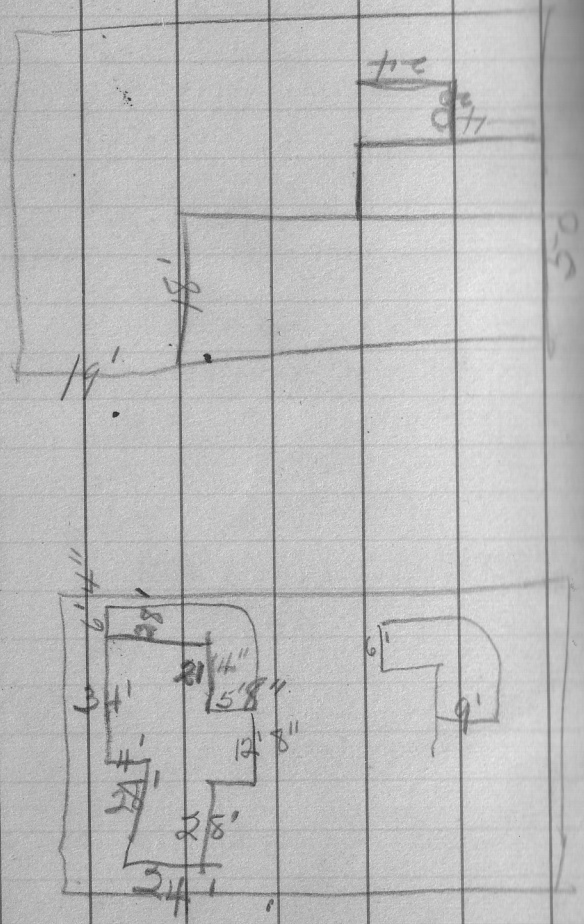
Road 360

1.78 Acres

461 ft

1.57

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL



STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL

8 x 25 x 1 = 200
8 x 25 x 1 = 200
8 x 2 x 25 x 2 = 800
2) 1200 (26
6
160
152

26
6
156

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT	FILL
~~at Bench~~							
0	7.20	57.20		50.00	at Creek		
			7.20	50.00			
456			3.45	53.75			
492			3.80	53.40		Low point	
	7.80	64.50	0.50	56.70			
1320			4.70	59.80		Fence	
1770			4.50	60.00			
1540			6.10	58.40		in pond	

2000
20
54) 40000 sq ft 800
400
1

27 ½

½

27 ÷ ½ = 54

110
26 – 12
88

35
1750
150
1900

150
57
43

160
492

35
40

75
225

134
306
440
1320

1770
225
1545

1770
402
1370

150
450

1770/1000