

Tile Installation Record - Location Plan



Scale
1 inch = 440 feet

LEGEND

Farm Boundary
--X---X---X--

Existing Tile Line

New Tile Installed

Job Name Alpha Brekke

By Phillip Morreim 5-31-95
(Signature of Contractor and Date)

Sec. 17 Township Manchester

County Freeborn State MN

Amount of Tile Installed 820 FT Plowed

<u>520</u>	Feet of	<u>Plastic 6</u>	inch tile
<u>300</u>	Feet of	<u>Plastic 4</u>	inch tile
_____	Feet of	_____	inch tile
_____	Feet of	_____	inch tile
_____	Feet of	_____	inch tile

MORREIM DRAINAGE, INC.
Water Management Specialists

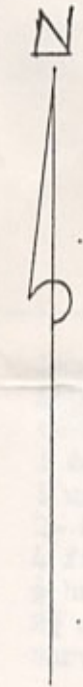
RR 2 Box 164
Albert Lea, MN 56007

Phone (507) 826-3449

Fax: (507) 826-3482

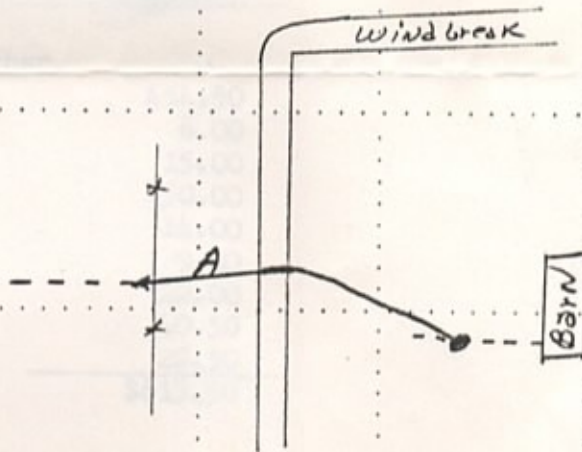
Water Management Maintains Water Quality

TILE INSTALLATION RECORD • LOCATION PLAN



Feet

Scale 1 Inch =



LEGEND:

Farm Boundary

Existing Tile Line

New Tile Installed

Existing Deep Ditch

Existing Shallow Ditch

Job Name Selmer Brekke
 Sec. 17 Township Manchester
 County Freeborn State Minn.
 Design By Phil Morreim

By Phillip Morreim Summer 1981
 (Signature of Contractor and Date)

FARM DRAINAGE SERVICE, INC.

Phillip Morreim

Box 164, Rte. 2, Albert Lea,
 Minnesota 56007

Phone (507) 826-3449

(Manchester)

Amount of Tile Installed
450 Feet of 5" plastic Trencher inch tile
 _____ Feet of _____ inch tile
 _____ Feet of _____ inch tile



Sam.



Edwards
MFG. Co.
Established 1875

Outlet South West

Albert Lea Plant:
507/373-8206
After Hours:
507/373-8207 Kim Hanson
507/373-5126 Glen Ballandby

Jobs Industrial Park, Albert Lea, Minnesota 56007
Serving Southern Minnesota for over 50 years with metal culverts

40 acres total

560	ditch #1 @	1.0679 =	42.72 - Sorensen Bros
320	ditch #3	.8438 =	33.75 "
320	ditch #4	1.3437 =	53.75 " = 130.22
560	culvert	1.3129 =	52.52 = Edwards Mfg.

Paid 12- :1979 total due 182.74

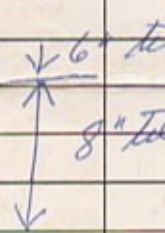
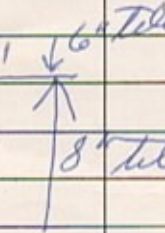
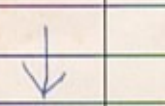
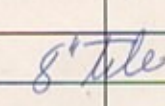
TILE CUT SHEET

Sheet ____ of ____

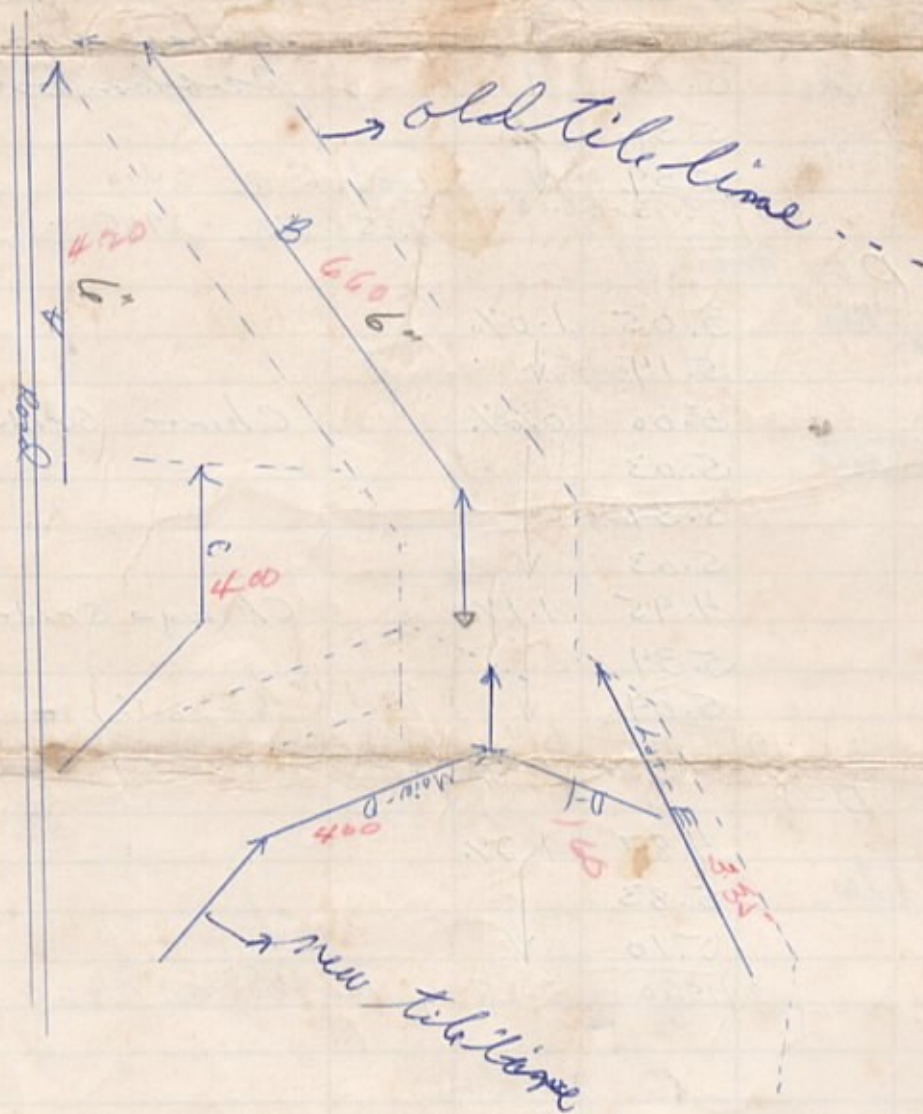
Name Selfman Side Hill, S.W. Surveyed By _____ Date _____

Twp. _____ Sec. _____ T _____ R _____ Figured By _____ Date _____

SCD _____ Engr. Plan Dwg. No. _____ Checked By _____ Date _____

Line & Station	Hub Elevation	Grade Elevation	Cut at Hub	Grade %	Tile Size	Remarks (P. I's, Jcts, etc.,)
	<u>Lat - E</u>					
0+00			3.96	0.9	6"x8"	Use 2' long 8" tile
1+00			5.42			where sand is a
2+00			5.15			problem on Septimus
3+00			5.31			
3+35 ^{END}			5.39			
			5' 25.23 -	5.05	100 ft 6" @ 24.10	24.10
					235 ft 8" @ 27.65	64.98
	<u>Lat - D or Main D.</u>					
0+00			3.05	1.0%		
0+85 ^{PI. I + D-1}			5.14			
0+85			5.00	0.2%		Change Grade
1+00			5.03			
2+00			5.37			
2+60 ^{PI. II}			5.03			
2+60			4.95	1.1%		Change Grade
3+00			5.34			
4+00 ^{END}			5.04			
			9' 43.95 -	4.78	95 ft 6" @ 22.15	19.68
					315 ft 8" @ 26.75	84.26
	<u>Lat - D-1</u>					
0+00			4.87	1.2%		
1+00			5.83			
1+60 ^{END}			5.10			
			3' 15.80 -	5.27	160 ft 8" @ 29.20	46.72

Place sketch and instructions on reverse side if contractor is not furnished copy of plan.



N

TILE INSTALLATION RECORD • LOCATION PLAN

1976

N

Driveway

C

B

A-V

A

Tar Road

LEGEND:

Farm Boundary

Existing Tile Line

New Tile Installed

Existing Deep Ditch

Existing Shallow Ditch

Job Name Selmer Brekke

Sec. 17 Township Manchester

County Frodoval State MINN

Design By Phil Morreim

Amount of Tile Installed

1640 Feet of 5 inch tile

Feet of inch tile

Feet of inch tile

By Phillip Morreim
(Signature of Contractor and Date)

FARM DRAINAGE SERVICE, INC.

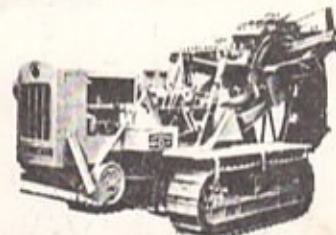
Phillip Morreim

Box 164, Rte. 2, Albert Lea,

Minnesota 56007

Phone (507) 826-3449

(Manchester)



FARM DRAINAGE SERVICE INC. Albert Lea, Minnesota

Name Selmer Bricks Tile Cuts

St.	Cut	Gr.	Size	St.	Cut	Gr.	Size
Main-A							
0+00	4.05	2.5	5"				
1+00	4.31						
1+20	4.53	3.0					
2+00	4.25						
2+40	3.93						
3+00	3.96						
3+60	4.49						
A-1							
0+00	3.83	10.0	5"				
0+90	3.93	3.0					
1+50	4.25						
2+50	4.04						
Main-B							
0+00	2.60	1.0	5"				
0+60	4.68	0.8					
1+00	4.64						
2+00	4.20						
Main-C							
0+00	2.70	0.5	5"				
1+00	3.70	3.5					
2+00	4.10						
2+80	4.30	3.0					
3+00	4.68						
4+00	4.40	1.6					
4+40	4.22						
5+00	4.13	3.0					
6+00	4.09	5.0					
7+00	4.15	4.0					
8+00	4.51						
8+30	4.06						

Job Name Selmer Bricks
 Subj. 17. Temp. Dr. Installation
 County Crow Wing
 Order by Phil A. Peterson

Amount of Tile Installed
1440 feet of 5" tile
 Part of 5" tile
 Part of 5" tile

By Philip Peterson
 (Signature of Contractor and Date)
 FARM DRAINAGE SERVICE, INC.

Philip Peterson
 220 1st. Ave. S. Albert Lea
 Minnesota 56001
 Phone (507) 472-3447
 (In Minnesota)

1802-42
 Farm Boundary
 Existing Shaded
 New 1/2 Shaded
 Existing Deep Ditch
 2' width, 1' deep
 Existing Shallow Ditch



STATEMENT
FARM DRAINAGE SERVICE INC.
 SURVEYING — TILING — BACK FILLING
 Manchester, Minnesota 56064

Date July 7 19670

M Selmer Brekke

ALLEN BORGLUM
 Waseca, Minnesota 56093
 Phone: 835-1318

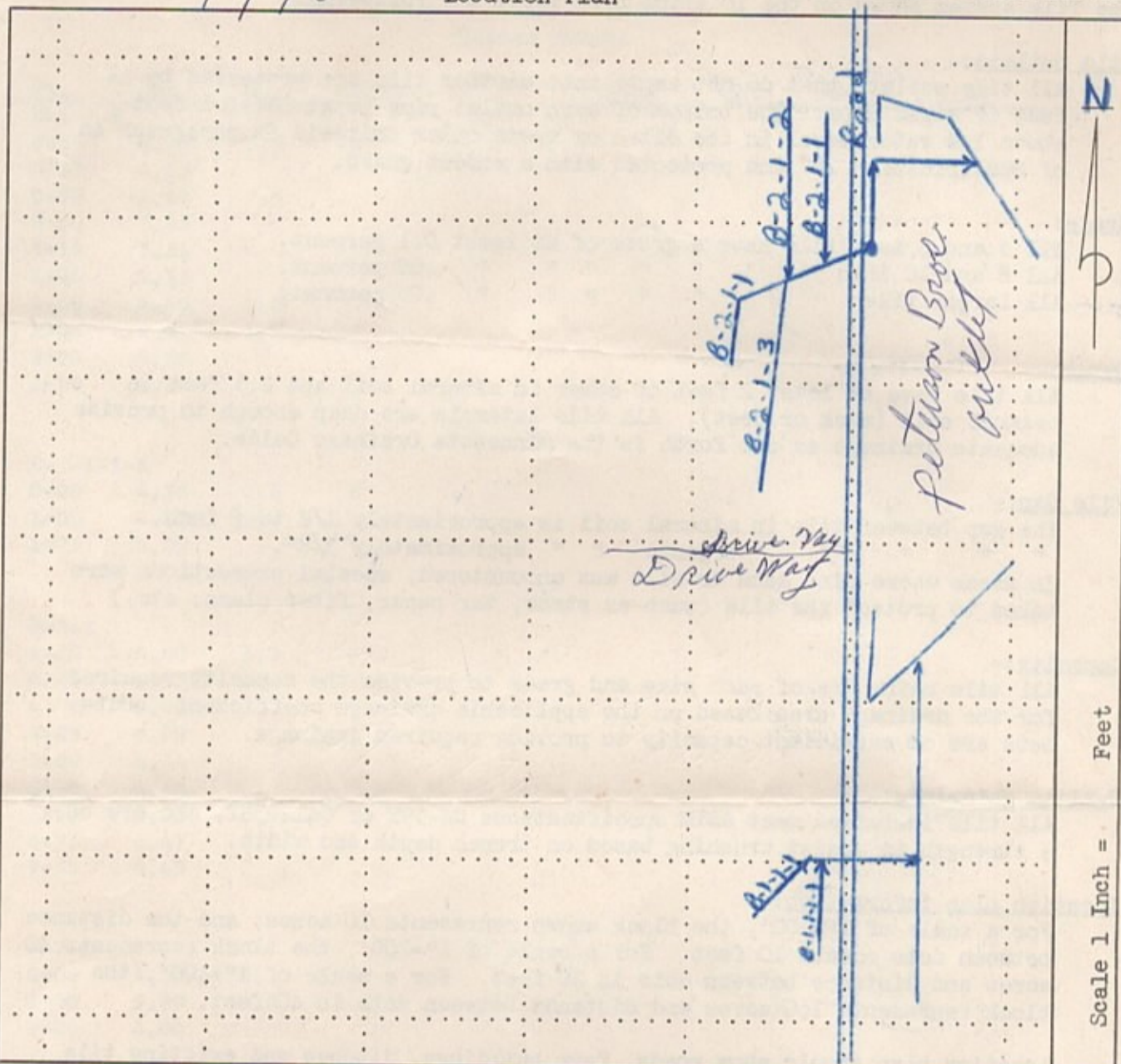
PHILLIP MORREIM
 Manchester, Minnesota 56064
 Phone: 826-3449

TERMS: Payment made within 10 days of receipt of statement is eligible for cash discount. Between 10 and 30 days statement to be paid in full. After 30 days a 1% service charge per month will be added to the total bill.

Line Number	Tile Size	Avg. Cut	Price	Feet	TOTAL	
B-1-1-1	6"	4.6	.19	400	76	00
B-1-1-1-1	6"	4.1	.16 $\frac{1}{2}$	175	28	87
B-2-1	6"	4.5	.18 $\frac{1}{2}$	335	61	97
B-2-1-1	6"	4.1	.16 $\frac{1}{2}$	200	33	00
B-2-1-2	6"	4.4	.18 $\frac{1}{2}$	160	28	80
B-2-1-3	6"	4.1	.16 $\frac{1}{2}$	330	54	45
				1600	\$283	09
Stake and survey 1600 ft. @ 2¢ per ft.					32	00
Backfill 1600 ft. @ 2¢					32	00
6 new connections @ 3.00 each					18	00
2 Road crossings @ 50.00 each					100	00
					\$465	09
Less Crop Damage -					15	09
					\$450	00

Paid Phil. Morreim

tile \$364.15



-Legend-

Farm Boundary	---	---
Permanent Fence	---	---
Existing Tile Line	---	---
New Tile Installed	---	---
Existing Deep Ditch	---	---
Existing Shallow Ditch	---	---

-Amount of Tile Installed-

1600	Feet of	inch tile
	Feet of	inch tile
	Feet of	inch tile
	Feet of	inch tile

Job Name Selmer Brekke

Sec. _____ Township Manchester

County Freeborn State Minn

ACP No. _____

Design By Phil Morreim

Date Installed 1970

Contractor Farm Drainage Service Inc

Type of Machine Clonaline

Tile Manufacturer(s) Clarks Grove

Staked By Phil Morreim

I certify that the information given above is correct and that all tile installed meet the specifications given on the reverse side and applicable specifications in Minnesota Specifications for Conservation Practices No. 207, except as is noted on the drawing or on reverse side under remarks.

By: Phil Morreim
(Signature of Contractor & date)

(Over)

Selmer Brekke

St.	Out	Gr.	Size
B-1-1-1			
0+00	4.98	0.5	6"
0+35	4.12		
0+70	4.11	2.5	
0+90	7.83		
1+15	7.31		
1+30	4.32		
1+60	4.46	1.0	
2+00	4.45	1.3	
3+00	4.66		
4+00	4.54		

B-1-1-1-1			
0+00	4.36	0.6	6"
1+00	4.03	2.0	
1+75	4.09		

B-2-1			
4+20	4.69	3.0	6"
4+40	4.35		
4+60	8.46		
4+85	8.09		
5+00	4.34		
5+30	4.46		
5+90	4.53	3.5	
6+75	4.47	1.0	
7+55	4.45		

B-2-1-1			
0+00	4.34	0.15	6"
1+00	3.89	2.8	
2+00	4.00		

B-2-1-2			
0+00	4.41	0.15	6"
1+00	4.41	2.2	
1+60	4.51		

B-2-1-3			
0+00	4.41	0.8	6"
1+00	4.16		
2+00	4.18		
3+00	4.00		
3+30	4.16		

Job Name	Selmer Brekke
Loc.	Township
County	Polk
ACT No.	
Design by	P. H. Brekke
Check by	P. H. Brekke
Scale	1" = 100'
Type of Machine	Hand
Tile Manufacturer(s)	Polk
Staked by	P. H. Brekke

By: P. H. Brekke
(Signature of Contractor & date)

(Over)

STATEMENT

Marvin H. Giese

Box 141

easton, minn, 56025

April 17 1969

To Sam Brekke

Dist. of Falls	Cost	Average	Price	Cost
Main - A	700	470	.20	140 00
A-1	350	440	.18	63 00
A-2	160	470	.20	32 00
Main-B	850	420	.17	144 50
Main-D	675	450	.18 $\frac{1}{2}$	125 30
Main-C	400	430	.20 $\frac{1}{2}$	82 00
C-1	100	500	.21 $\frac{1}{2}$	21 50
				608 30
Closing	2235 ft. 1 $\frac{1}{2}$ ¢			33 53
		4 connection tile	1.50	6 00
				\$ 647 83

Main - A
0 - 420 1.6
1 - 435 4.0
2 - 488
225 - 404
3 - 529
4 - 532
5 - 442
515 - 472 1.4
6 - 516
7 - 424

A-1
0 - 444 4.6
1 - 469 3.4
2 - 439 1.3
3 - 443 0.5
350 - 426

A-2
0 - 502 3.0
1 - 451 1.0
160 - 444

Main-B
0 - 349 1.4
1 - 413
2 - 423
3 - 416
4 - 439 2.4
5 - 468
6 - 453
7 - 431
8 - 373
850 - 427

Main - D
0 - 363 2.0
1 - 400 0.5
2 - 436
3 - 395 1.0
4 - 433
5 - 391
6 - 480 4.0
675 - 513

Main-C
0 - 384 2.0
1 - 460 5.5
2 - 438 7.5
3 - 542
365 - 501
4 - 516

C - 1
0 - 489 0.5
1 - 513

0 - 384 3.0
Main - C

0 - 489 0.5
C - 1

020 - 751
8 - 343
1 - 737
2 - 723
3 - 728
4 - 722 3.4
5 - 719
6 - 753
7 - 773
0 - 773 J.4
Main - B

020 - 773
8 - 780 1.0
1 - 387
2 - 733
3 - 734 J.0
4 - 739
5 - 739
7 - 750 0.2
0 - 750 5.0
Main - D

1 - 737
2 - 773
3 - 735 J.4
4 - 745
5 - 735
6 - 756
7 - 707
8 - 785
1 - 732 1.0
0 - 750 J.4
Main - A

020 - 752
2 - 773 0.2
3 - 736 J.2
4 - 786 3.4
0 - 777 1.2

020 - 777
7 - 727 J.0
0 - 705 3.0

0 - 420 1.6
1 - 435 4.0
2 - 488
225 - 404
3 - 529
4 - 532
5 - 442
515 - 472 1.4
6 - 516
7 - 424

0 - 444 4.6
1 - 469 3.4
2 - 439 1.3
3 - 443 0.5
350 - 426

0 - 502 3.0
1 - 451 1.0
160 - 444

Main - B
0 - 349 1.4
1 - 413
2 - 423
3 - 416
4 - 439 2.4
5 - 468
6 - 453
7 - 431
8 - 373
850 - 427

Main - D
0 - 363 2.0
1 - 400 0.5
2 - 436
3 - 395 1.0
4 - 433
5 - 391
6 - 480 4.0
675 - 513

Main - C
0 - 384 2.0
1 - 460 5.5
2 - 438 7.5
3 - 542
365 - 501
4 - 516

C - 1
0 - 489 0.5
1 - 513

West

North

Farm 160 Acres

Line fence 103-N

Corner

Corner

PkA

TILE SUMMARY	
LINE	6"
LAT-A	420
B	660
C	400
D	400
D-1	160
E	335
S	80
TOTAL	2755

pla

pla

Pasture

R-22-W

EXISTING TILE

C.S.A.H. No. 25

SCALE 1 IN. EQUALS 440 FEET

LOCATION PLAN

LEGEND

Farm Boundary	-----	Proposed Tile Line	---○---	Pr
Permanent Fence	* * *	New Tile installed	---○---	Ex
Existing Tile Line	○ --- ○	Existing Deep Ditch	===	Pr

SPECIFICATIONS

1. Tile shall meet ASTM specifications.
2. Design based on 3/8 in./24 hrs.
3. Min. depth of tile to be _____.
4. Average depth of laterals to be _____.
5. Min. grade of laterals _____ ft./100.
6. Gap between tile shall be _____.
7. All connections for joining 2 lines must be sealed with mortar unless manufactured connections are used.
8. Tile shall be blinded by covering to a depth of 6" with loose mellow top soil. All tile laid must be blinded by end of days work.
9. _____.

Materials:

CONSTRUCTION REPORT

Date installed SUMMER 1962
Contractor _____
Staked By SOIL CONSERVATION SERVICE
Amount of tile installed 2,755

Remarks:

Signature

Date

Bench Mark Description:

COOPERATORS BREKKE SEC 17 T 103 R 22
COOPERATING WITH MN-30-35
COUNTY FREEBORN STATE MINN.
SURVEYED MORRIS MUEER DATE 10-62

SELMER BREKKE
TILE DRAINAGE PLAN

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

D. MORRIS		Date	1962
Designed E. MUEER		Approved by	<u>Edward J. [unclear]</u>
Drawn P. WESTLAND		Title	<u>Design [unclear]</u>
Traced		Sheet	Drawing No.
Checked		No.	
		of	

Sam Breake - Manchester

North West Main

Station
0 + 00

8" tile

725 ft @ 21.05 - 152.61
1075 ft @ 18.35 - 197.26

5 + 25

6" tile

10

8" tile

6" tile

15 + 50

21 / 9.71
475 ft @ 18.35 - 197.26
1075 ft @ 18.35 - 197.26

Branch "E" S.E. 1/4 Main

0 + 00

1

Branch "D" North - 1/4 Main

0 + 00

4 / 116.06

300 ft @ 17.00 - 51.00

Sta cut
0 + 00

Branch "C" S.E. 1/4 Main

0 + 00

1

2

3

4

Branch "B" S.E. 1/4 Main

0 + 00

1

2

3

Branch "A" N.E. 1/4 Main

0 + 00

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

Lat "A-1" cont.

4 + 00 347

Lat "A-2" N 3 + 60

6 + 00 333

1 + 16 341

Lat "A-3" S 3 + 60

0 + 00 333

0 + 84 404

2 + 73 37

84 ft @ 17.00 - 14.00

12

12

12

12

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400 ft

4.00
23.99
16.35 - 65.40

[illegible]

all 6"

Sam Brekke - Manchester

System in South Pasture -

North Pasture Branch

0 + 00	2.36	
1	3.49	
2	4.29	
3	3.41	.10%
4	3.33	
5	4.43	
6	4.55	
6 + 50	5.08	-
7	4.65	
8	4.08	
9	3.78	.50%
10	3.82	
11	4.34	-
12	3.65	2.50%
13	4.25	

Branch "F" North 6 + 50 above Branch

0 + 00	5.03	
1	3.94	
2	4.23	.20%
3	4.23	
4	4.15	-
5	4.39	2.30%

6 25.97 - 4.33

500 ft @ 18.10 90.50

South Pasture Branch

0 + 00	3.06	
1	2.58	
2	2.72	
3	2.90	
4	2.59	.10%
5	2.97	
6	3.53	
7	3.06	
8	3.82	
9	4.05	2.70%
10	4.28	.50%

Branch "G" North from 6 + 00 above Branch

0 + 00	3.43	
1	4.02	.20%
2	3.88	3/11.33 - 3.18

Lat "G-1" E + SE Br. "G"

0 + 00	3.92	
1	3.50	.20%
2	4.51	3/11.33 - 3.98

Branch "H" So. SE 5 + 00 S.P. Br.

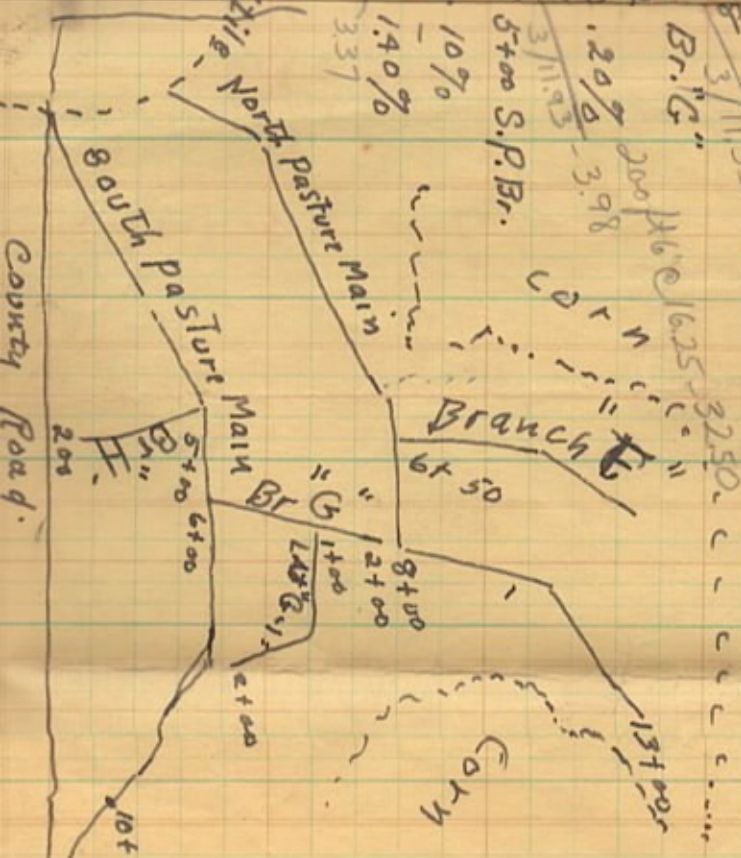
0 + 00	2.97	.10%
1	3.06	
2	4.06	1.40%

3/10.12 - 3.37

Present 10 ft tie

200 ft @ 12.95

25.90



Scale

572

DESIGN DETAIL:

ELEVATIONS

21410

0.3% 12" ...

LEGEND

Remarks:

DATE _____

STATE

SURVEYED BY

DRAINAGE PLAN

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

USDA-SCS MILWAUKEE WIS 1000

ORDER THIS BLANK DATA SHEET BY DRAWING NUMBER 3-L-45875

tile	collected	105 ft from tile to collect
104 65	x	65-70 ft. from new tile to collect

3000

Left 10th 7/10

2000

000100

Q-500

STATIONS

0+0=

 $\delta + 0.0$

RR.
TRUCKS

Count
Road

Flow 1.05 71-7500, Rob

DESIGN DETAILS

[illegible]

Bench	Mark	Description:
1	100	100
2	100	100
3	100	100
4	100	100
5	100	100
6	100	100
7	100	100
8	100	100
9	100	100
10	100	100
11	100	100
12	100	100
13	100	100
14	100	100
15	100	100
16	100	100
17	100	100
18	100	100
19	100	100
20	100	100
21	100	100
22	100	100
23	100	100
24	100	100
25	100	100
26	100	100
27	100	100
28	100	100
29	100	100
30	100	100
31	100	100
32	100	100
33	100	100
34	100	100
35	100	100
36	100	100
37	100	100
38	100	100
39	100	100
40	100	100
41	100	100
42	100	100
43	100	100
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45	100	100
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68	100	100
69	100	100
70	100	100
71	100	100
72	100	100
73	100	100
74	100	100
75	100	100
76	100	100
77	100	100
78	100	100
79	100	100
80	100	100
81	100	100
82	100	100
83	100	100
84	100	100
85	100	100
86	100	100
87	100	100
88	100	100
89	100	100
90	100	100
91	100	100
92	100	100
93	100	100
94	100	100
95	100	100
96	100	100
97	100	100
98	100	100
99	100	100
100	100	100

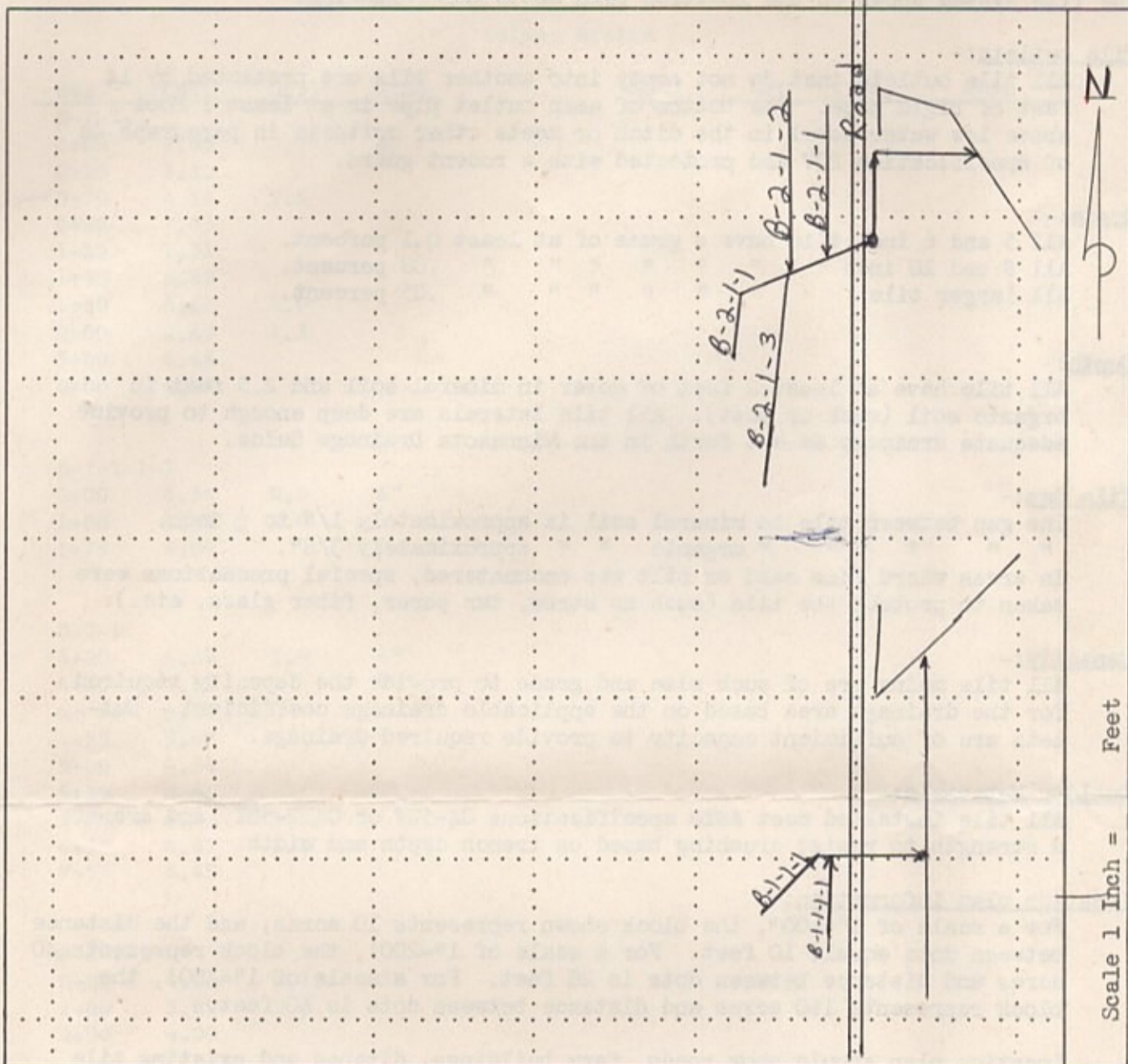
Materials:

erials: Map of Calicut
under county
road

REGULAR INSPECTION OF THE DRAIN SYSTEM IS ESSENTIAL. PROMPT REPAIR OF ANY FAILURE WILL KEEP THE SYSTEM IN WORKING ORDER AND MAINTENANCE COSTS LOW

TILE INSTALLATION RECORD
Location Plan

U.S. Department of Agriculture
Soil Conservation Service



-Legend-		Job Name <u>Selmer Brekke</u>	
Farm Boundary	---	Sec. _____	Township <u>Manchester</u>
Permanent Fence	---x---	County <u>Freeborn</u>	State <u>Minn</u>
Existing Tile Line	---o---	ACP No. _____	
New Tile Installed	---o---	Design By <u>Phil Morneim</u>	
Existing Deep Ditch	===	Date Installed <u>1970</u>	
Existing Shallow Ditch	---<---	Contractor <u>Farm Drainage Service Inc</u>	
-Amount of Tile Installed-		Type of Machine <u>Cleveland</u>	
<u>1600</u>	Feet of _____ inch tile	Tile Manufacturer(s) <u>Clarks Grove</u>	
_____	Feet of _____ inch tile	Staked By <u>Phil Morneim</u>	
_____	Feet of _____ inch tile		
_____	Feet of _____ inch tile		

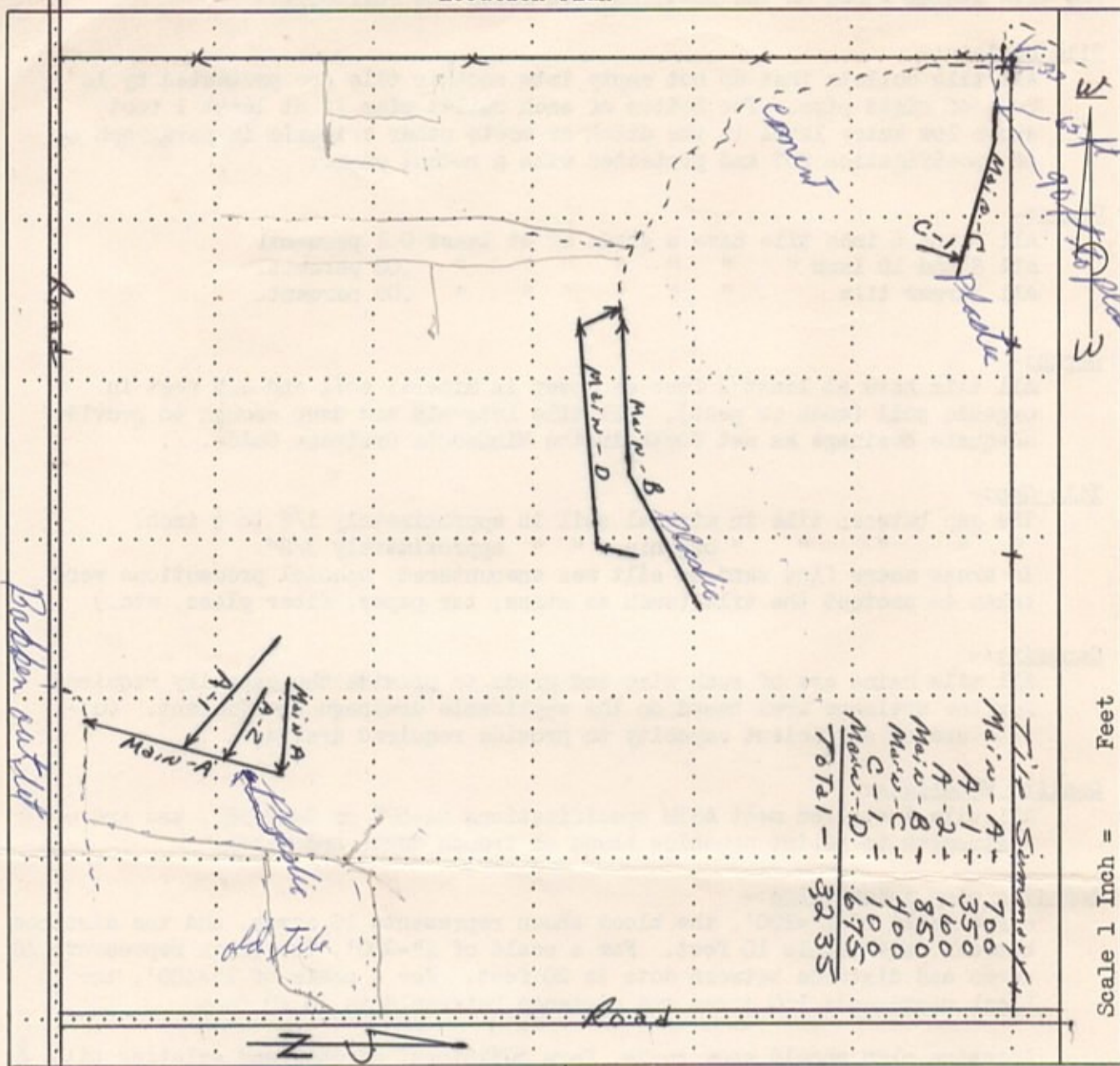
I certify that the information given above is correct and that all tile installed meet the specifications given on the reverse side and applicable specifications in Minnesota Specifications for Conservation Practices No. 207, except as is noted on the drawing or on reverse side under remarks.

1970 By: Phil Morneim
(Signature of Contractor & date)

(Over)

TILE INSTALLATION RECORD
Location Plan

U.S. Department of Agriculture
Soil Conservation Service



Tile Summary

Main-A	700
A-1	350
A-2	150
Main-B	850
Main-C	400
C-1	100
Main-D	675
Total	3235

Scale 1 Inch = 323.5 Feet

-Legend-

Farm Boundary	---	---
Permanent Fence	---	---
Existing Tile Line	○	○
New Tile Installed	○	○
Existing Deep Ditch	==	==
Existing Shallow Ditch	---	---

-Amount of Tile Installed-

3235	Feet of 4" Plastic	inch tile
	Feet of	inch tile
	Feet of	inch tile
	Feet of	inch tile

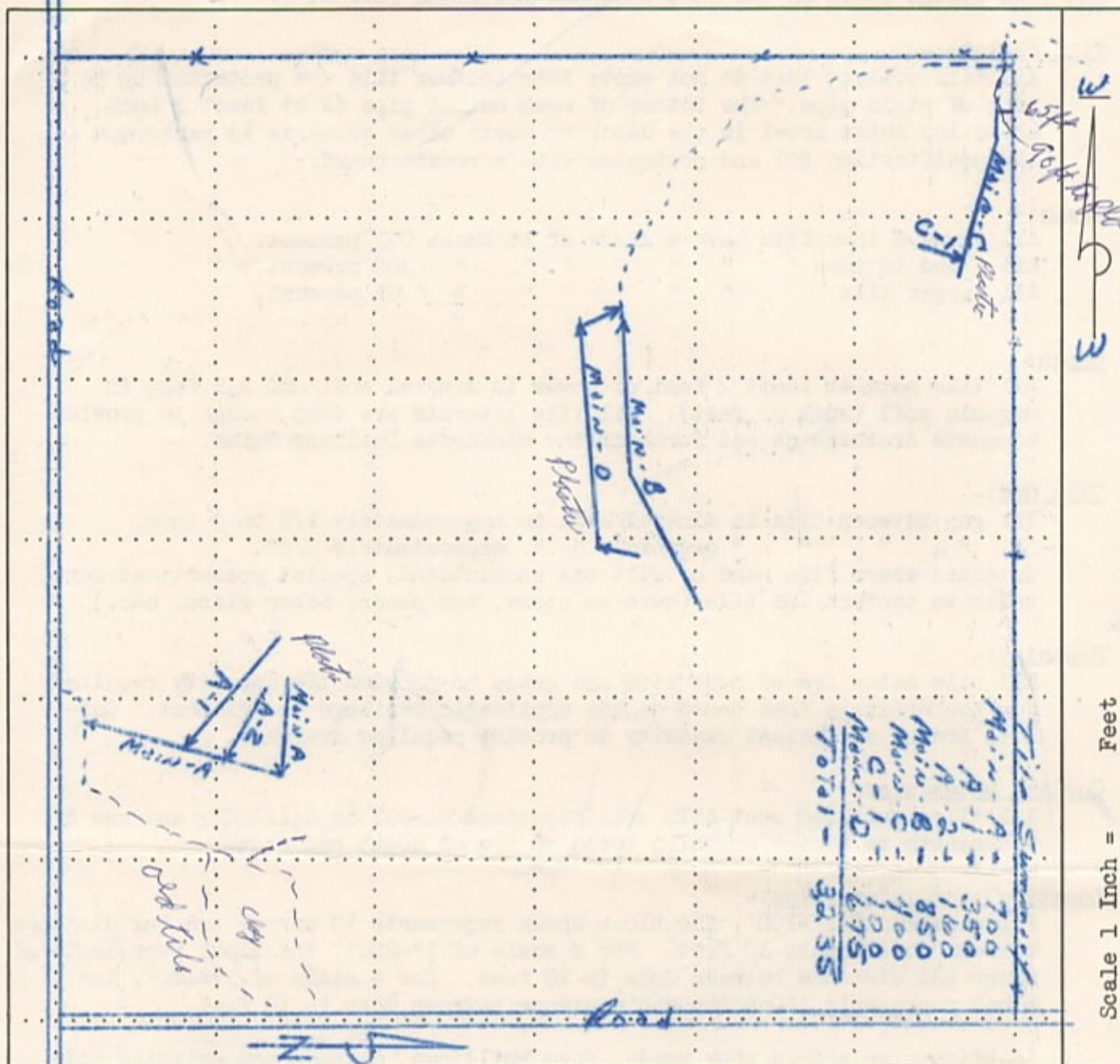
Job Name Selmer Brekke
 Sec. _____ Township Manchester
 County Freeborn State Minn
 ACP No. _____
 Design By Phil Merreim
 Date Installed 1969
 Contractor Marvin Giese
 Type of Machine Cleveland
 Tile Manufacturer(s) A.D.S. - Plastic
 Staked By Phil Merreim

I certify that the information given above is correct and that all tile installed meet the specifications given on the reverse side and applicable specifications in Minnesota Specifications for Conservation Practices No. 207, except as is noted on the drawing or on reverse side under remarks.

By: _____
 (Signature of Contractor & date)
 (Over)

TILE INSTALLATION RECORD
Location Plan

U.S. Department of Agriculture
Soil Conservation Service



Scale 1 Inch = Feet

Tile Summary	
Main A -	700
A-1 -	250
A-2 -	150
Main B -	850
Main C -	400
C-1 -	100
Main D -	675
Total -	3235

-Legend-	
Farm Boundary	---
Permanent Fence	---x---
Existing Tile Line	---o---
New Tile Installed	---o---
Existing Deep Ditch	===
Existing Shallow Ditch	---

-Amount of Tile Installed-	
3235	Feet of 4" Plastic inch tile
	Feet of inch tile
	Feet of inch tile
	Feet of inch tile

Job Name	Solmer Brokke
Sec.	Township Manchester
County	Freeborn State Minn
ACP No.	
Design By	Phil Morrison
Date Installed	1969
Contractor	Mervin Giese
Type of Machine	Cleveland
Tile Manufacturer(s)	A.D.S. - Plast. C. (Barchart)
Staked By	Phil Morrison

I certify that the information given above is correct and that all tile installed meet the specifications given on the reverse side and applicable specifications in Minnesota Specifications for Conservation Practices No. 207, except as is noted on the drawing or on reverse side under remarks.

By: _____
(Signature of Contractor & date)

(Over)

SPECIFICATIONS

1. Tile shall meet ASTM specifications.
2. Design based on 3/8 in./24 hrs.
3. Min. depth of tile to be _____.
4. Average depth of laterals to be _____.
5. Min. grade of laterals _____ ft./100.
6. Gap between tile shall be _____.
7. All connections for joining 2 lines must be sealed with mortar unless manufactured connections are used.
8. Tile shall be blinded by covering to a depth of 6" with loose mellow top soil. All tile laid must be blinded by end of days work.
9. _____.

Materials:

CONSTRUCTION REPORT

Date installed SUMMER 1962
Contractor _____
Staked By SOIL CONSERVATION SERVICE
Amount of tile installed 2755

Remarks:

Signature Date

Bench Mark Description:

COOPERATORS BREKKE SEC 17 T. 103 R. 62
COOPERATING WITH DN-30-35
COUNTY FREEBORN STATE MINN.
SURVEYED MORSE-MILLER DATE 7-6-62

SELMER BREKKE
TILE DRAINAGE PLAN

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

P. MORSEIM Date 1962		Approved by <u>Edward J. Volney</u>	
Designed <u>E. MILLER</u>		Title <u>2. Soil Conservation</u>	
Drawn <u>B. WESTLAND</u> 1/69		Title _____	
Traced _____		Sheet _____	Drawing No _____
Checked _____		No _____	of _____



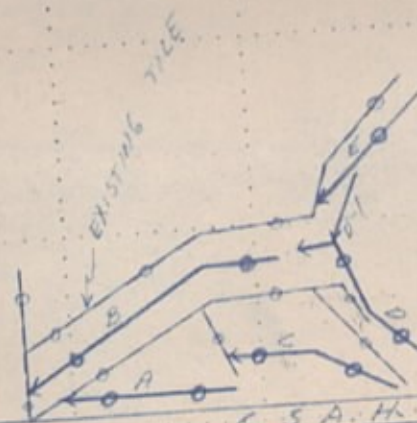
—○— Proposed Deep Ditch
—○— Existing Shallow Ditch
— Proposed Shallow Ditch

TILE SUMMARY	
LINE	6"
LAT-A	420
B	660
C	400
D	400
D-1	160
E	335
S	380
TOTAL	2755

R-22-W

T-103-N

17



SCALE 1 IN. EQUALS 440 FEET

LOCATION PLAN

Farm Boundary

Permanent Fence

Existing Tile Line

LEGEND

Proposed Tile Line

New Tile installed

Existing Deep Ditch

SPECIFICATIONS

1. Tile shall meet ASTM specifications.
2. Design based on 3/8 in./24 hrs.
3. Min. depth of tile to be _____.
4. Average depth of laterals to be _____.
5. Min. grade of laterals _____ ft./100.
6. Gap between tile shall be _____.
7. All connections for joining 2 lines must be sealed with mortar unless manufactured connections are used.
8. Tile shall be blinded by covering to a depth of 6" with loose mellow top soil. All tile laid must be blinded by end of days work.
9. _____.

Materials:

CONSTRUCTION REPORT

Date installed SUMMER 1962
Contractor _____
Staked By SOIL CONSERVATION SERVICE
Amount of tile installed 2,755

Remarks:

Signature

Date

Bench Mark Description:

COOPERATORS BREKKE SEC 17 T 103 R 22
COOPERATING WITH MN-30-35
COUNTY FREEBORN STATE MINN.
SURVEYED MORRIS-MUSER DATE 10-62

SELMER BREKKE
TILE DRAINAGE PLAN

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Designed <u>P. MORREIM</u>	Date <u>1962</u>	Approved by <u>Edward J. Schmitt</u>
Drawn <u>R. WESTLAND</u>	Date <u>1/69</u>	Title <u>Drainage Plan</u>
Traced _____	Sheet _____	Drawing No _____
Checked _____	No _____	of _____

DULUTH OFFICE:
2126 WATER ST., DULUTH 5
TELEPHONE:
30272 & 51300

ULLAND BROTHERS

CONTRACTORS

HIGHWAYS - STREETS - DRAINAGE SYSTEMS

P. O. BOX 549

TELEPHONE, CORNING 100

AUSTIN, MINNESOTA



INVOICE NO. 2036

In account with Selmer Brekke
Route 2
Alden, Minn.

DATE Nov. 14, 1953

TERMS: Unless other arrangements are made payment is due on 10th of month following that in which work is done. Interest charged on past due accounts.

QUANTITY	DESCRIPTION	PRICE	AMOUNT
	Tiling 8237 Ft. per attached sheets		1369.35
	D6 Cat & Dozer work 13½ hours @	10.00	135.00
			1504.35
<i>Paid in full by check</i> <i>Nov 14-1953</i> <i>D. G. Mohr</i>			

1	3.84	
2	4.13	
3	3.90	
4	4.01	
	5/19.56 - 3.91 average cut	
400 ft 6" tile @ 15.90 per 100 ft.		63.60

Branch B		
0/00	4.06	
1	3.84	
2	3.91	
3	4.34	
	4/16.15 - 4.04 average cut	
300 ft 6" tile @ 16.60 per 100 ft.		49.80

North West Main

<u>Station</u>	<u>Cut</u>
0/00	3.00 (2.00)
1	4.86
2	4.72
3	4.63
4	5.13
5	3.84
5/25	4.09
6	4.06
7	4.68
8	4.32
9	4.71
10	4.59
11	4.82
12	4.24
13	3.98
14	4.04
15	5.06
15/50	5.07
16	3.90
17	3.87
18	4.10

$$21/91.71 - 4.37 \text{ average cut}$$

725 ft. 8" tile @ 21.05 per 100 ft. 152.61
 1075ft 6" tile @ 18.35 per 100 ft. 197.26

Branch D

0/00	3.88
1	3.82
2	3.68
3	4.68

$$4/16.06 - 4.02 \text{ average cut}$$

300 ft 6" tile @ 17.00 per 100 ft. 51.00

Branch C

0/00	3.68
1	3.84
2	4.13
3	3.90
4	4.01

$$5/19.56 - 3.91 \text{ average cut}$$

400 ft 6" tile @ 15.90 per 100 ft. 63.60

Branch B

0/00	4.06
1	3.84
2	3.91
3	4.34

$$4/16.15 - 4.04 \text{ average cut}$$

300 ft 6" tile @ 16.60 per 100 ft. 49.80

Station	Cut
<u>Branch A</u>	
0/00	5.07
1	4.81
2	3.96
2/50	3.39
3	3.88
4	4.51
5	4.23
6	4.11
6/50	4.32
7	4.25
8	4.42
9	4.39
10	4.42
13/55.76 - 4.29 average cut	
1000 ft 6" tile @ 17.90 per 100 ft.	179.00

<u>Lat A-1</u>	
0/00	3.99
1	4.58
2	4.07
3	4.46
3/60	3.41
4	3.47
6/23.98 - 4.00 average cut	
400 ft 6" tile @ 16.35 per 100 ft.	65.40

<u>Lat A-2</u>	
0/00	3.33
1	3.41
1/16	3.41
3/10.15 - 3.38 average cut	
116 ft 6" tile @ 13.05 per 100 ft.	15.14

<u>Lat A-3</u>	
0/00	3.33
0/84	4.04
2/7.37 - 3.69 average cut	
84 ft. 6" tile @ 14.70 per 100 ft.	12.35

<u>Lat A-4</u>	
0/00	3.39
1	3.30
2	3.44
2/50	3.55
3	3.50
4	3.78
4/37	4.53
7/25.49 - 3.64 average cut	
437 ft 6" tile @ 14.40 per 100 ft.	62.93

#3

Sam Brekke Tiling

System in South Pasture

Station	Cut
<u>North Pasture Br.</u>	
0/00	3.00 (2.36)
1	3.49
2	4.29
3	3.41
4	3.33
5	4.43
6	4.55
6/50	5.08
7	4.55
8	4.08
9	3.78
10	3.82
11	4.34
12	3.65
13	4.25
15/60.05 - 4.00 average cut	
1300 ft 6" tile @ 16.35 per 100 ft.	212.55

<u>Branch F</u>	
0/00	5.03
1	3.94
2	4.23
3	4.23
4	4.15
5	4.39
6/25.97 - 4.33 average cut	
500 ft. 6" tile @ 18.10 per 100 ft.	90.50

<u>South Pasture Br.</u>	
0/00	3.06
1	3.00 (2.58)
2	3.00 (2.72)
3	3.00 (2.90)
4	3.00 (2.59)
5	3.00 (2.97)
6	3.53
7	3.06
8	3.82
9	4.05
10	4.28
11/36.80 - 3.35 average cut	
1000 ft 6" tile @ 12.85 - per 100 ft.	128.50

#4

Sam Brekke Tiling

<u>Br. G</u> <u>Station</u>	<u>Cut</u>	
<u>Br. G</u> 0/00	3.43	
1	4.02	
2	3.88	
	<u>3/11.33</u>	- 3.78 average cut
200 ft. 6" tile @ 15.15 per 100 ft.		30.30

<u>Lat G-1</u> <u>0/00</u>		
1	3.92	
2	3.50	
	<u>4.51</u>	
	<u>3/11.93</u>	- 3.98 average cut
200 ft 6" tile @ 16.25 per 100 ft.		32.50

<u>Branch H</u> <u>0/00</u>		
1	3.00 (2.97)	
2	3.06	
	<u>4.06</u>	
	<u>3/10.12</u>	- 3.37 average cut
200 ft 6" tile @ 12.95 per 100 ft.		25.90

#5

Sam Brekke Tiling

Line	Size	Feet	Amount
Main	8	725	152.61
Main	6	1075	197.27
Br. D	6	300	51.00
Br. C	6	400	63.60
Br. B	6	300	49.80
Br. A	6	1000	179.00
Br A-1	6	400	65.40
Br. A-2	6	116	15.14
Br. A-3	6	84	12.35
Br. A-4	6	437	62.93
North Pasture	6	1300	212.55
Br F	6	500	90.50
South Pasture	6	1000	128.50
Br. G	6	200	30.30
G-1	6	200	32.50
n H	6	200	25.90
		8237	1369.35