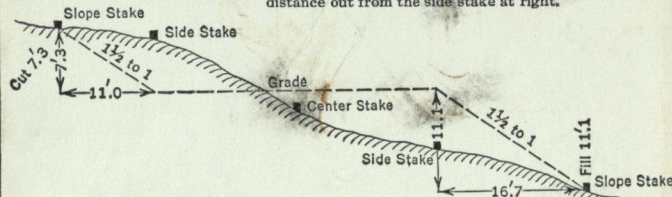


GARVEY
DRAINAGE
Ditch
Book # 2

WILSON TRANS BOOK

**DISTANCES FROM SIDE STAKES FOR CROSS - SECTIONING
Roadway of any Width. Side Slopes 1 1/2 to 1.**

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Cut or Fill	Distance out from Side or Shoulder Stake										Cut or Fill
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

Cross sections of South end of Garvey Drain page 2

New Grade For GARVEY-NEAL From STA. 71+00 to 127+00 Page 19

Grade For P.T. Page 27

COMPLETED CROSS SECTIONS ON GARVEY-NEAL Page 66

CONS. ELE. OF G.-N. + P.-T. 1971 & 72 Page 19-51

The paper in this book is made of 100% high grade rag stock with a WATER RESISTING surface sizing.

B.M. #7 = 75.17, NE corner of culvert
on S.R. 267

B.M. #8 = 74.34, Nail in utility pole
N.W. corner of 267+200N.

B.M. #9 = 66.63, Top of, iron rail,
N.E. corner of bridge on 151N.

B.M. #10 = 57.49 SE. corner of concrete
abutment in Sugarwood Estates.

B.M. #11 = 18.95 N.E. corner of concrete
abutment on 100N.

In the
from

Cut 7.2

Out or
Fill

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KE

	+	π	-	B.M.
				57.49
B.M.#10	5.71	63.20	5.20	58.00

182+00

T.P. 5.41 63.41 5.97 57.44

184+00

T.P. 4.85 62.29 4.85 57.44

186+00

T.P. 6.12 63.56 4.70 58.86

Cross sections drawn for 2
each 400' \pm of length.

8-19-69

9' STK	8'	5'	5'	14'	15'
<u>6.52</u>	<u>7.29</u>	<u>10.91</u>	<u>11.46</u>	<u>11.16</u>	<u>8.03</u>
56.68	55.91	52.29	51.74	52.04	55.17
10'	15'	18'	23'	25'	20'
<u>7.11</u>	<u>6.85</u>	<u>6.75</u>	<u>5.90</u>	<u>7.71</u>	<u>7.73</u>
56.09	56.35	56.45	57.80	55.49	55.47
			25'		
			5.40		
			57.80		

15'	9' STK	4'	3'	4'	6'
<u>5.12</u>	<u>6.60</u>	<u>10.54</u>	<u>11.06</u>	<u>10.40</u>	<u>9.90</u>
58.29	56.81	52.97	52.35	53.01	53.51
20'	25'	25'	20'	15'	10'
<u>5.20</u>	<u>5.29</u>	<u>6.77</u>	<u>7.55</u>	<u>7.74</u>	<u>8.26</u>
58.21	58.12	56.64	55.86	55.67	54.65

13'	6' STK	3'	5'	10'	15'
<u>5.24</u>	<u>5.64</u>	<u>7.07</u>	<u>7.96</u>	<u>7.40</u>	<u>2.15</u>
57.05	56.65	54.62	54.39	54.89	59.14
15'	20'	25'	25'	20'	17'
<u>5.06</u>	<u>5.00</u>	<u>5.06</u>	<u>2.67</u>	<u>2.60</u>	<u>2.64</u>
57.23	57.29	57.23	59.62	59.69	59.65

+ π - B.M.

188400

8' STK	7'	5'		4'	7'	10'
<u>2.92</u>	<u>6.51</u>	<u>8.05</u>	<u>8.12</u>	<u>7.96</u>	<u>7.24</u>	<u>4.96</u>
57.66	57.01	55.51	55.44	55.60	56.32	58.60

10'	15'	20'	25'	25'	20'	15'
<u>6.37</u>	<u>6.27</u>	<u>5.97</u>	<u>6.02</u>	<u>2.15</u>	<u>2.68</u>	<u>3.63</u>
57.19	57.29	57.59	57.54	61.41	60.88	59.93

T.P. 5.24 64.10 3.65 60.45

190400

8' STK	7'	3'		2'	5'	8'
<u>4.27</u>	<u>7.43</u>	<u>8.27</u>	<u>8.52</u>	<u>8.45</u>	<u>6.45</u>	<u>2.30</u>
59.93	56.67	55.83	55.58	55.65	57.65	61.80

9'	10'	15'	20'	15'	10'
<u>4.90</u>	<u>4.92</u>	<u>5.53</u>	<u>5.35</u>	<u>0.22</u>	<u>1.69</u>
59.20	59.18	58.57	58.75	63.78	62.41

25'
<u>5.52</u>
58.58

T.P. 5.34 65.79 1.92 63.87

192400

10'	7'	2'		2'	3'	5'
<u>8.46</u>	<u>8.96</u>	<u>9.42</u>	<u>9.54</u>	<u>9.27</u>	<u>9.01</u>	<u>5.69</u>
57.83	56.83	56.37	56.25	56.52	56.79	60.10

14' STK	14'	15'	20'	20'	15'	11'
<u>5.31</u>	<u>5.90</u>	<u>5.77</u>	<u>5.50</u>	<u>0.49</u>	<u>2.88</u>	<u>4.01</u>
60.48	59.89	60.02	60.29	65.30	62.94	61.78

25'
<u>5.54</u>
60.25

B.M.#9 4.93 68.80 2.06 66.74 66.63

	+	π	-	B.M.
B.M.#9	2.57			66.63

T.P.	2.57	69.20	4.20	65.00
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T.P.	2.87	67.87	5.87	62.00
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194+00

T.P.	4.94	66.94	3.94	63.00
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196+00

T.P.	5.25	69.25	4.56	63.69
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198+00

4

8'STK	8'	2'	1'	4'	6'		
6.12	6.62	10.55	10.99	10.90	10.39	9.31	
61.74	61.19	57.32	56.88	56.97	57.48	58.56	
10'	11'	20'	25'	25'	20'	15'	10'
6.64	6.78	6.87	6.48	7.23	6.98	7.07	7.60
61.23	61.09	61.00	61.39	60.64	60.89	60.80	60.27

8'STK	2'	3'	11'	15'	
5.52	9.08	9.48	8.98	7.27	6.54
61.42	57.86	57.46	57.96	59.67	60.40
9'	10'	15'	20'	25'	20'
3.02	4.87	4.91	4.88	6.25	6.57
61.92	62.07	62.03	62.06	60.69	60.36
		25'			
		4.82			
		62.12			

13'	10'	2'	3'	5'	25'	
5.95	7.58	8.45	9.02	8.26	5.57	
62.30	60.87	59.80	59.23	59.99	62.26	62.88
15'STK	25'					
5.22	5.29					
63.03	62.96					

I II - B.M.

T.P. 5.27 68.96 4.37 64.59

200+00

10'	6'	4'		2'	5'	8'	
7.88	8.32	8.98	9.49	9.09	8.12	5.32	
61.08	60.64	59.98	59.47	59.87	60.84	63.64	
13'	13.5TK	15'		25'	20'	15'	10'
6.66	6.12	6.53		0.76	2.29	3.65	4.81
62.30	62.84	62.43		68.20	66.67	65.31	64.13
		25'	20'				
		5.96	6.32				
		63.00	62.64				

T.P. 9.41 69.00 4.44 64.56

202+00

9.5TK	7'	4'		6'	10'	15'
5.07	5.90	8.76	9.03	8.77	5.49	4.26
63.93	63.10	60.24	59.97	60.23	63.51	64.74
10'	15'	20'			25'	20'
5.70	5.55	4.67			2.69	3.27
63.30	63.45	64.33			66.31	65.73
		25'				
		4.62				
		64.39				

T.P. 5.15 69.71 4.23 65.48

204+00

9'	5'	2'		7'	5'	10'
5.52	7.50	8.57	8.74	7.47	5.64	5.62
64.19	62.21	61.14	60.97	62.24	64.07	64.09
9.5TK	10'	15'		25'	20'	15'
4.62	5.36	5.16		4.75	4.92	5.39
60.09	64.35	64.55		64.76	64.79	64.32
		25'	20'			
	4.90	4.87				
	64.81	64.84				

+ x - 0.17.

T.P. 5.00 70.48 3.96 66.52

206700

	x	1'	1'	3'	5'
	5.87	8.88	8.94	8.82	7.29
	64.61	61.60	61.54	61.66	63.19
9' STK	10'	15'	25'	20'	15'
4.78	5.21	4.93	2.26	3.86	4.84
65.70	65.27	65.55	68.22	66.62	65.63
	25'	20'			
	5.12	4.92			
	65.86	65.56			

T.P. 4.65 71.17 4.07 67.10

208700

	5' STK	5'	8.57	6'	10'	14'
	5.84	6.51	8.57	8.23	7.75	5.74
	65.33	64.66	62.60	62.94	63.42	65.43
10'	15'	20'				
5.44	4.84	4.75				
65.73	66.32	66.42				
		25'				
		4.68				
		66.49				
				25'	20'	
				5.68	5.65	
				65.49	65.52	

T.P. 5.08 72.18 4.35 67.83

210700

	10'	5'	2'	3'
	7.69	8.41	9.06	8.67
	64.49	63.77	63.12	63.51
10' STK	15'	20'	20'	15'
7.11	6.84	5.74	4.89	5.52
65.07	65.34	66.94	67.29	66.66
		25'	25'	10'
		5.22	3.16	5.77
		66.96	67.02	66.41

	+	x	-	B.M.
T.P.	5.16	72.99	0.63	72.36

212+00

B.M.#8	6.33	78.69	4.05	74.64	74.34
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8' STK	6'	2'		2'	5'	10'
6.12	7.04	8.89	9.34	8.93	5.37	5.13
66.87	65.95	64.10	63.65	64.06	62.62	67.86
10'	15'	20'	25'	25'	20'	15'
6.23	5.63	5.49	4.87	4.61	4.83	4.84
66.76	62.36	67.50	68.12	68.38	68.16	68.15

+	π	-	B.M.
			74.34

T.P.	3.95	78.29	10.67	67.62
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T.P.	5.19	72.81	2.18	70.63
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214+00

6'	4'	2'		6'	12'	18'
6.45	7.72	8.18	8.30	8.05	5.68	4.12
66.36	65.09	64.63	64.51	64.96	67.13	68.69
10'	10.5TK	15'			25'	20'
5.95	4.84	5.58			4.13	4.07
67.46	67.97	67.23			68.68	68.79
	25'	20'				
	4.49	4.29				
	68.32	68.52				

216+00

9'	9.5TK	3'		3'	6'	11'
4.89	4.34	2.65	7.95	7.77	6.33	4.00
67.92	68.47	65.16	64.86	65.04	66.48	68.81
10'	15'	20'	25'	25'	20'	15'
4.82	4.70	4.55	4.47	4.33	4.28	4.19
67.98	68.11	68.26	68.34	68.48	68.53	68.62

T.P.	3.72	74.35	3.76	70.59
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218+00

10'	5'	3'		2'	6'	10'
6.35	8.63	8.67	9.07	8.29	5.24	5.61
67.90	65.72	65.68	65.32	65.86	69.11	68.74
10.5TK	15'	20'		25'	20'	15'
6.04	6.39	6.11		5.09	5.32	5.73
68.31	67.96	68.24		69.26	69.03	68.62
		25'				
		5.99				
		68.36				

+ π - B.M.

T.P. 5.38 75.97 5.89 70.08

220100

B.M.#7 5.85 75.93 0.76 75.17 75.17

222100

61.57K	5'	2'		9'	10'	15'
61.07	7.00	9.57	10.27	9.76	8.20	7.25
<u>69.90</u>	<u>68.97</u>	<u>66.40</u>	<u>65.70</u>	<u>66.21</u>	<u>67.77</u>	<u>68.92</u>
10'	15'	20'	25'		25'	20'
61.69	6.71	6.89	6.40		4.91	5.11
<u>69.28</u>	<u>69.26</u>	<u>69.68</u>	<u>69.57</u>		<u>71.06</u>	<u>70.86</u>

10'	6'	3'		3'	6'	12'
7.07	8.08	8.91	9.31	9.07	6.96	4.79
<u>68.86</u>	<u>67.85</u>	<u>67.02</u>	<u>66.62</u>	<u>66.80</u>	<u>68.97</u>	<u>71.14</u>
10.57K	15'	25'		25'	20'	15'
6.51	6.63	5.30		4.59	5.02	4.86
<u>69.42</u>	<u>69.30</u>	<u>70.63</u>		<u>71.14</u>	<u>70.91</u>	<u>71.07</u>

	+	x	-	B.M.
R17#7	0.53			75.17

T.P.	0.53	75.70	3.98	71.72
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224+00

T.P.	5.20	76.92	4.08	72.84
------	------	-------	------	-------

226+00

T.P.	5.06	77.90	4.80	73.10
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228+00

12' STK	12'	7'		4'	12'	15'
3.55	4.25	8.37	8.71	8.72	4.42	3.52
72.15	71.95	67.33	66.99	66.98	71.28	72.18
15'	20'	25'			25'	20'
4.30	4.52	4.37			2.96	2.80
71.40	71.13	71.33			72.74	72.90

9'	3'	2'		2'	6'	10'
4.84	8.82	9.18	9.27	9.10	6.56	5.90
72.08	68.10	67.74	67.65	67.82	70.36	71.02
11' STK	15'	20'		25'	20'	15'
4.17	4.23	5.17		4.49	5.01	5.99
72.79	71.49	71.41		72.43	71.91	70.93
		25'				
		5.36				
		71.56				

8' STK	8'	1'		7'	10'	15'
3.58	4.07	9.67	10.05	9.72	6.25	5.87
74.32	73.83	68.23	67.85	68.18	71.17	72.03
10'	15'	20'	25'		25'	20'
4.44	5.36	5.65	5.64		5.64	5.38
73.46	72.54	72.25	72.26		72.26	72.56

+ x - B.M.

T.P. 5.07 78.17 4.56 73.61

230400

T.P. 5.13 78.74 2.50 76.24

232100

T.P. 6.22 82.46 8.77 73.69

234100

$\begin{array}{r} 13' \\ 4.75 \\ \hline 73.42 \end{array}$	$\begin{array}{r} 6' \\ 6.90 \\ \hline 71.27 \end{array}$	$\begin{array}{r} 3' \\ 9.73 \\ \hline 68.44 \end{array}$	10.01 68.16	$\begin{array}{r} 5' \\ 9.40 \\ \hline 68.77 \end{array}$	$\begin{array}{r} 10' \\ 6.14 \\ \hline 72.03 \end{array}$	$\begin{array}{r} 15' \\ 5.09 \\ \hline 73.08 \end{array}$
$\begin{array}{r} 13' \text{ STR} \\ 4.10 \\ \hline 74.07 \end{array}$	$\begin{array}{r} 15' \\ 5.01 \\ \hline 73.16 \end{array}$	$\begin{array}{r} 20' \\ 5.21 \\ \hline 72.96 \end{array}$	$\begin{array}{r} 25' \\ 5.00 \\ \hline 73.17 \end{array}$	$\begin{array}{r} 25' \\ 4.33 \\ \hline 73.84 \end{array}$	$\begin{array}{r} 20' \\ 4.36 \\ \hline 73.81 \end{array}$	

$\begin{array}{r} 14' \\ 5.29 \\ \hline 73.45 \end{array}$	$\begin{array}{r} 7' \\ 7.23 \\ \hline 71.51 \end{array}$	$\begin{array}{r} 3' \\ 9.00 \\ \hline 69.74 \end{array}$	9.24 69.50	$\begin{array}{r} 4' \\ 9.08 \\ \hline 69.66 \end{array}$	$\begin{array}{r} 8' \\ 7.55 \\ \hline 71.19 \end{array}$	$\begin{array}{r} 12' \\ 5.26 \\ \hline 73.48 \end{array}$
$\begin{array}{r} 14' \text{ STR} \\ 4.75 \\ \hline 73.99 \end{array}$	$\begin{array}{r} 20' \\ 5.40 \\ \hline 73.34 \end{array}$	$\begin{array}{r} 25' \\ 1.95 \\ \hline 73.29 \end{array}$				$\begin{array}{r} 14' \\ 3.19 \\ \hline 75.55 \end{array}$

$\begin{array}{r} 9' \\ 10.79 \\ \hline 71.67 \end{array}$	$\begin{array}{r} 3' \\ 12.02 \\ \hline 70.43 \end{array}$	12.12 70.34	$\begin{array}{r} 3' \\ 12.11 \\ \hline 70.35 \end{array}$	$\begin{array}{r} 6' \\ 10.06 \\ \hline 72.40 \end{array}$	$\begin{array}{r} 9' \\ 7.77 \\ \hline 74.69 \end{array}$	
$\begin{array}{r} 13' \\ 10.74 \\ \hline 72.05 \end{array}$	$\begin{array}{r} 18' \\ 8.85 \\ \hline 78.61 \end{array}$	$\begin{array}{r} 25' \\ 5.36 \\ \hline 77.10 \end{array}$	$\begin{array}{r} 25' \\ 8.19 \\ \hline 74.27 \end{array}$	$\begin{array}{r} 20' \\ 8.11 \\ \hline 74.35 \end{array}$	$\begin{array}{r} 15' \\ 1.97 \\ \hline 74.49 \end{array}$	$\begin{array}{r} 10' \\ 7.61 \\ \hline 74.85 \end{array}$
		$\begin{array}{r} 25' \text{ STR} \\ 5.01 \\ \hline 77.45 \end{array}$				

fence of 6'

+ x - B.M.

$234 + 42 = 144 + 81$ original

T.P. 4.28 77.97 5.97 72.00

B.M. 4.90 76.90 1.58 75.32

15'	10'	5'		4'	8'	1.0'
8.23	10.87	10.95	12.38	10.87	10.14	9.71
74.23	71.55	71.51	70.08	71.57	72.32	72.55
20'	25'	22.57K				15'
5.06	4.88	4.15				9.40
77.40	79.56	78.31				73.06

use to here

	+	1	=	B.M.
B.M.#0 STA 180+50	5.16	62.65		57.49

B.M.#8	3.13	77.47		74.34
--------	------	-------	--	-------

NE.

<u>11.45</u>
51.20

SE.

<u>12.21</u>
50.44

14

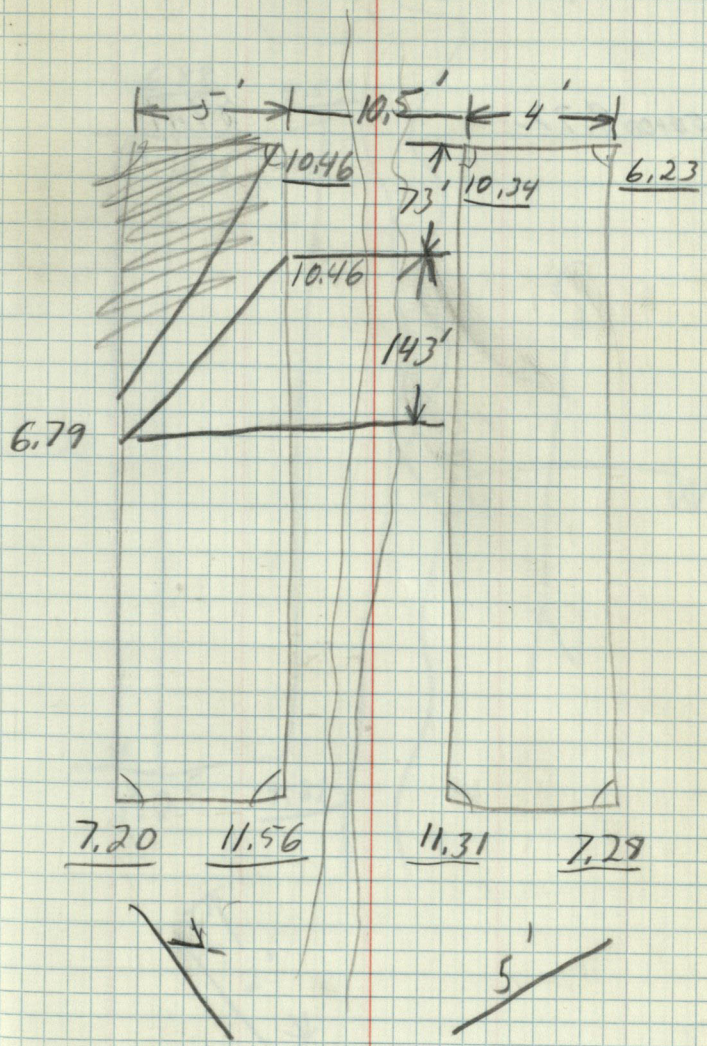
<u>13.38</u>
64.09

<u>13.21</u>
64.26

+ 1 - B.M.

STK 132100 3.60

82.38



+

↑

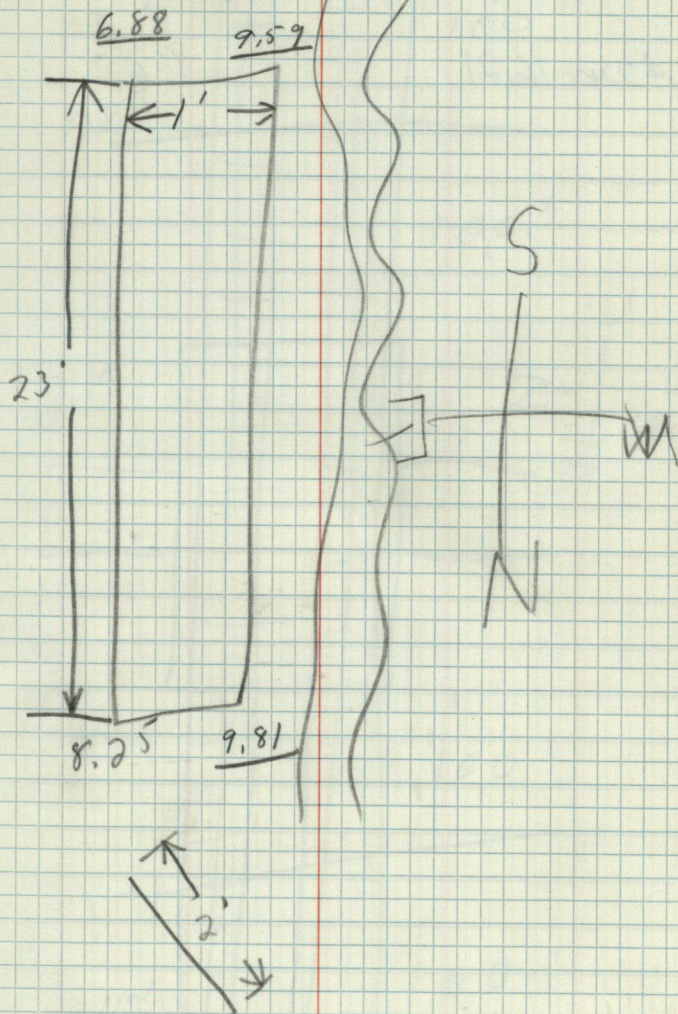
-

F.L.
B.M.

STK 50+00 9.72

89.11

17



+ π - B.M.

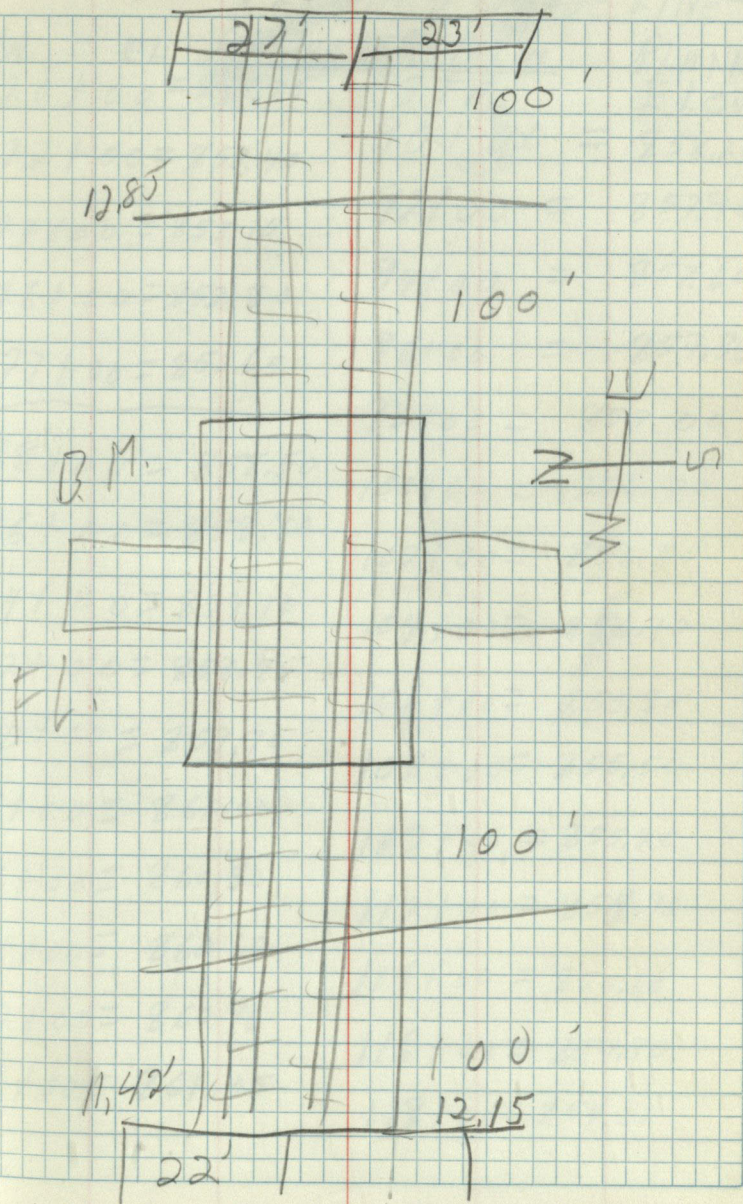
STA. 72400 16.21

11.60

11.85

11.74

18



GARVEY-NEAL Ditch
 PLANNED GRADE LINE (19)

STA.	EL.	Grade 0.15" per 100'	PLANNED
		STA.	ELEV.
120+00	= 853.70	90+00	= 858.20
122+00	= 853.40	92+00	= 857.90
124+00	= 853.10	94+00	= 857.60
126+00	= 852.80	96+00	= 857.30
127+00	= 852.65	98+00	= 857.00
88+00	= 858.50	100+00	= 856.70
86+00	= 858.80	102+00	= 856.40
84+00	= 859.10	104+00	= 856.10
82+00	= 859.40	106+00	= 855.80
80+00	= 859.70	108+00	= 855.50
78+00	= 860.00	110+00	= 855.20
76+00	= 860.30	112+00	= 854.90
74+00	= 860.60	114+00	= 854.60
72+00	= 860.90	116+00	= 854.30
71+00	= 861.05	118+00	= 854.00

GARVEY - NEAL
Grade PLAN

20

STA.	EL.	STA.	EL.
	0.125" per 100'		
71+00	= 861.05		
70+00	= 861.175		
68+00	= 861.425		
66+00	= 861.675		
64+00	= 861.925		
62+00	= 862.175		
60+00	= 862.425		
58+00	= 862.675		
56+00	= 862.925		
54+00	= 863.175		
52+00	= 863.425		
50+00	= 863.675		
	<u>863.68</u>		

	+	π	EL.	cut
T.B.M.#6			863.85	
	2.59	866.44		
	5.65	869.50		

T.B.M.#6A		4.09	865.41	
-----------	--	------	--------	--

ON top of stake		5.38	864.12	
92+00	Grade Line		857.90	6.22

94+00		6.98	862.52	
			857.60	4.92

96+00		4.91	864.59	
			857.30	7.29

⊙		4.91	864.59	
---	--	------	--------	--

	2.95	867.54		
--	------	--------	--	--

98+00		3.75	863.79	
			857.00	6.79

8-5-71

AL. T
John

21

Top of N.E. Corner of Bridge Abutment
Over Garvey - Near Ditch at Co. Rd. 300 N.
R of Co. Rd. 300 N.
Sta. 90+05

T.B.M.#6A: N.E. Cor. of conc. steps to
Service Door of Gar. Mrs. Wing
House

8-5-71

G+N.

STA	+	π	-	FL	cut
		867.54			
100+00			4.32	863.22	
				856.70	6.52
102+00			4.14	863.40	
				856.40	7.00
104+00			5.37	862.17	
				856.10	6.07
⊙			5.37	862.17	
	4.71	866.88			
106+00			4.83	862.05	
				855.80	6.25
108+00			5.98	860.90	
				855.50	5.40
Return					
108+00				860.90	
	5.34	866.24			
			1.97	864.27	
	8.47	872.74			
			6.34	866.40	
	3.14	869.54			
B.M. 6			5.65	863.89	✓

STA.	+	π	-	EL.	Cut
106+00				862.05	
	4.07	866.12			
108+00			5.31	860.81	
				855.50	5.31
110+00			6.15	859.97	
				855.20	4.77
112+00			5.39	860.73	
				854.90	5.83
⊙			5.39	860.73	
	3.58	864.31			
114+00			4.26	860.05	
				854.60	5.45
116+00			4.22	860.09	
				854.30	5.79
118+00			4.92	859.39	
				854.00	5.39

G. & N.
DATE 8-12-71

Steve - AL - Steve 23

Sta.	+	π	-	El.	Cut
		864.31			
①			4.92	859.39	
	5.40	864.79			
120+00			5.81	858.98	
				853.70	5.28
122+00			6.41	858.38	
				853.40	4.98
124+00			6.56	858.23	
				853.10	5.13
126+00			7.54	857.25	
				852.80	4.45
	Return				
120+00				858.98	
	5.55	864.53			
①			5.73	858.80	
	6.85	865.65			
①			6.21	859.44	
	6.20	865.64			
106+00			3.66	861.98	

✓ AL

G.T.N.

24

~~6.41~~
~~4.92~~

11.39

~~5.28~~
~~5.81~~

11.09

862.05
861.98

.07

STA	+	π	-	E.L.	CUT
B.M. 6				863.85	
	5.69	869.54			
88+00			4.57	864.97	
				858.50	6.47
86+00			3.72	865.82	
				858.80	7.02
○			4.40	865.14	
	5.88	871.02			
84+00			5.27	865.75	
				859.10	6.65
○			6.24	864.78	
	6.92	871.70			
82+00			5.64	866.06	
				859.40	6.66
80+00			5.63	866.07	
				859.70	6.37

G. & N. 8-18-71

AL
Steve
Steve

25

STA	+	π	-	El.	Cut	G. + N.
		871.70				
78+00			4.97	866.73		
				860.00	6.73	
76+00			5.07	866.63		
				860.30	6.33	
⊙			5.41	866.29		
	6.78	873.07				
74+00			5.11	867.96		
				860.60	7.36	
72+00			5.22	867.85		
				860.90	6.95	
	Return					
⊙			5.45	867.62		
	5.15	872.77				
⊙			7.30	865.47		
	5.69	871.16				
B.M. 6			7.04	864.12		
			✓	AL.		

	+	π	-	EL	Cut
T.B.M.#				863.95	
	1.80	865.75			
112+00			5.67	860.08	
110+00			4.98	860.77	
108+00			4.40	861.35	
106+00			3.23	862.07	
				855.37	6.65
⊙			5.30	860.45	
	7.46	867.91			
104+00			4.65	863.26	
				855.65	17.61
102+00			4.70	863.21	
				855.93	7.28
⊙			5.36	862.55	
	6.23	868.78			

P.4.T.
 TOP OF S. CONCRETE GATE POST
 AT JUNCTION OF NS & EW FENCE

855.37
 1.28

 855.65
 28

 855.93

V.A.

PfT.

+	π	-	EL	Cut
	868.78			
100+00		5.24	863.54	
			856.21	7.33
98+00		5.52	863.26	
			856.49	6.77
96+00		5.06	863.72	
			856.77	6.95
94+00		4.27	864.51	
			857.05	7.46
⊙		4.27	864.51	
	5.16		869.67	
92+00		4.90	864.77	
			857.33	7.44
TBM #2A		4.75	864.92	

✓ AL

20 PENNY NAIL IN ROOT ON SW CORNER OF OAK TREE AT STA 92+50

	+	π	-	EL	cut
TBM#2A				864.92	
	3.98	868.90			
90+00			4.86	864.04	
				857.61	6.43
88+00			3.71	865.19	
				857.89	7.03
86+00			4.16	864.74	
				858.17	6.57
0			5.50	863.40	
	7.26	870.66			
84+00			5.25	864.91	
				858.45	6.46
82+00			4.75	865.91	
				858.73	7.18
TBM#3P			3.57	867.09	
				(867.08)	

P.H.T. 9-2-71

A.L. π
Steve φ

29

TBM 3P.

867.08

	+	π	-	EL	Cut
FBM [#] 30		870.66		867.09	
80+00			5.94	864.92	
				859.01	5.91
78+00			5.55	865.11	
				859.29	5.82
○			5.55	865.11	
	5.00	870.11			
76+00			4.18	865.93	
				859.57	6.36
74+00			4.29	865.82	
				859.85	5.97
72+00			4.72	865.39	
				860.13	5.26
○			4.72	865.39	
	4.45	869.84			

P. & T.

30

	+	π	-	EL.	cut
		869.84			
70+00			4.07	865.77	
				860.41	5.36
68+00			3.32	866.52	
				860.69	5.83
○			3.32	866.52	
	5.70	872.22			
66+00			5.78	866.44	
				860.97	5.47
64+00			5.38	866.84	
				861.25	5.59
○			6.65	865.57	
	6.59	872.16			
62+00			4.70	867.46	
T.B.m.				861.53	5.93
4-p			4.51	867.65	
				(867.71)	

P.T.

	+	π	-	EL	Cut
62+00				867.46	
	4.02	871.48			
7BM#4P-A			4.31	867.17	
60+00			4.62	866.86	
				861.76	5.10
0			5.35	866.13	
	5.87*	872.00			
58+00			4.97*	867.03	
				861.96	5.07
56+00			4.73	867.27	
				862.16	5.11
54+00			5.03	866.97	
				862.36	4.61

P.T.

9-10-71

STEVE π
AL ⊕
John Wilson ⊕

32

$$883.83 = 21+00 \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} .18''$$

$$867.05 = 0+00 \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

867.644

ARM A.

867.05

- .36

$$866.69 = 2+00$$

.36

$$866.33 = 4+00$$

873.84

866.33

7.51

	+	1	-	EL	Cut
52+00			4.85	867.15	
				862.56	4.59
①			5.17	866.83	
	5.19	872.02			
50+00			4.33	867.69	
				862.76	4.93
48+00			4.23	867.29	
				862.96	4.33
①			4.96	867.06	
	6.79	873.85			
46+00			6.06	867.79	
				863.16	4.63
44+00			5.37	868.48	
				863.36	5.12
42+00			2.70	871.15	
				863.56	7.59

P+T.

PFT

	+	π	-	EL	Cut
40+00			1.90	871.95	
				863.76	8.19
⊙			1.90	871.95	
	4.19	876.14			
38+00			3.57	872.57	
				863.96	8.61
36+00			4.95	871.19	
				864.16	7.03
34+00			5.09	870.45	
				864.36	6.09
⊙			6.54	869.60	
	9.47	879.07			
⊙			9.17	869.90	
	5.45	875.35			
TBM #6-P			4.24	871.11	
				871.38	

	+	π	-	EL.	Cut
T.B.m.#					
5-P	3.23	873.34		870.11	

T.B.m.#					
5-PA			0.40	872.94	

T.B.m.#					
5-PA				872.94	
	0.15	873.09			

47+00			5.24	862.85	
				863.06	4.79

46+00			5.23	862.86	
				863.16	4.70

45+00			5.27	867.82	
				863.26	4.56

44+00			4.62	868.47	
				863.36	5.11

9-22-71

 π JOHN
Φ AL

35

S.W. Cor. of Parcheito Mitscher House
At STA 47+00

9-24-71

 π STENG
Φ JOHN

	f	π	-	EL	Cut
0			4.62	868.47	
	7.90	876.37			
43+00			5.91	870.46	
				863.46	7.00
42+00			5.65	870.72	
				863.56	7.16
41+00			5.30	871.07	
				863.66	7.41
40+00			4.22	872.15	
				863.76	8.39

	+	π	-	EL	Cut
TBM# 6P				871.38	
	3.52	874.90			
32+00			4.19	870.71	
				864.56	6.15
30+00			4.62	870.28	
				864.76	5.52
28+00			4.80	870.10	
				864.96	5.14
26+00			4.67	870.23	
				865.17	5.07
0			4.67	870.23	
	6.27	876.50			
24+00			5.00	871.50	
				865.36	6.14
22+00			4.72	871.78	
				865.56	6.22

	+	π	-	EL	Cut
20+00			4.57	871.93	
				866.80	5.13
18+00			3.91	872.59	
				867.10	5.49
0			3.91	872.59	
	4.73	877.32			
16+00			4.22	873.10	
				867.40	5.70
14+00			4.68	872.64	
				867.70	4.94
12+00			4.39	872.93	
				868.00	4.93
0			4.39	872.93	
	5.08	878.01			
10+00			5.29	872.72	
				868.30	4.42

15% GRADE FROM
STA. 22+00 TO END

	+	π	-	EL	CUT
8400			4.42	873.59 868.60	4.99
⊙			5.32	872.69	
	5.90	878.59			
6400			5.26	873.33 868.90	4.43
4400			4.61	873.98 869.20	4.78
2400			4.36	874.23 869.56	4.73
TBM*			4.60	873.99	

ARM A GARVEY-NEAL 11-2-71

	+	π	-	EL
TBM#3				873.48
	9.30	882.78		
29+00				875.93
				871.83 4.10
28+00				876.23
				871.70 4.53
27+00				875.78
				871.58 4.20
26+00				876.28
				871.45 4.83
25+00				877.08
				871.33 5.75
0			5.84	876.94
	5.61	882.55		
24+00				876.60
				871.20 5.40
23+00				876.40
				871.08 5.32

40
STAKE

	9.81	6.85
	872.97	875.93
	9.88	6.55
	872.90	876.23
	9.93	7.60
	872.85	875.78
	10.57	6.50
	872.41	876.28
	10.48	5.70
	872.30	877.08
	10.44	5.85
	872.11	876.60
	10.34	6.15
	872.21	876.40

	+	882.55 π	-	52	Cut
22+00				876.20	
				870.95	5.25
21+00				876.97	
				870.83	6.14
20+00				877.67	
				870.65	7.02
⊙			7.46	875.09	
19+00	4.17	879.26			
				875.09	
				870.47	4.62
18+00				874.41	
				870.29	4.12
17+00				874.25	
				870.11	4.14
16+00				873.64	
				869.93	3.51
15+00				873.12	
				869.75	3.37

	e	Arm A	41 STAKE
	10.72		6.35
	871.83		876.26
	11.19		5.58
	871.36		876.97
	11.66		4.89
	870.89		877.67
	8.21		4.17
	871.05		875.09
	8.24		4.85
	871.02		874.41
	8.30		5.01
	870.96		874.25
	8.30		5.62
	870.96		873.64
	8.40		6.14
	870.86		873.12

	879.26 +	A	-	EL	Cut
14+00				873.73 869.57	4.16
13+00				874.14 869.39	4.75
0	4.34	878.92	4.68	874.59	
12+00				873.28 869.21	4.07
11+00				873.84 869.03	4.81
10+00				873.50 868.85	4.65
9+00				873.41 868.67	4.74
0	5.27	877.00	7.19	871.73	

42
STAKE
Arma

8.49	5.53 873.73
870.77	
8.52	5.12 874.14
870.74	
8.02	5.64 873.28
870.90	
8.29	5.08 873.84
870.63	
8.10	5.42 873.50
870.76	
8.23	5.51 873.41
870.69	

	+	877.00 π	-	EL	Cut
8+00		877.00		872.25	
				868.49	3.76
7+00				872.92	4.61
				868.31	
6+00				872.65	4.52
				868.13	
5+00				872.66	4.71
				867.95	
4+00				867.77	
				873.53	5.76
3+00			3.83	873.17	
	6.23	879.40			
B.m.#2			6.54	872.86	

Arm A. 43
STAKE

6.40	4.75
870.60	872.25
6.33	4.08
870.67	872.92
6.52	4.35
870.48	872.65
6.61	4.34
870.39	872.66
6.48	3.41
870.52	873.53

	+	π	-	FL	cut
T.B. mt #5				866.42	
	11.29	877.71			
71+00			10.22	867.49	
				861.05	6.44
70+00			9.70	868.01	
				861.18	6.83
68+00			9.61	868.10	
				861.43	6.67
⊙			9.61	868.10	
	4.66	872.76			
66+00	4.66		5.67	867.09	
				861.68	5.41
64+00			4.71	868.05	
				861.93	6.12
62+00			4.00	868.76	
				862.18	6.58
60+00			3.55	869.21	
				862.43	6.78

G-N. STA. 71+00 to 60+00 44
 1-19-71 Steve K ALΦ

$$0.125 = 50+00 = 863.68$$

$$.10 = 50+00$$

	+	π	-	EL	Cut
62+00				868.76	
	5.11	873.87			
58+00			4.90	868.97	
				862.68	6.29
⊙			4.90	868.97	
	4.18	873.15			
56+00			4.74	868.41	
				862.93	5.48
54+00			3.51	869.64	
				863.18	6.46
52+00			2.31	870.84	
				863.43	7.41
⊙			2.31	870.84	
	4.07	874.91			
50+00			4.20	870.71	
				863.68	7.03

G-N 12-8-71
AL- π Steve ϕ

	+	π	-	FL	Cut
		874.91			
48+00			4.34	870.57	
				863.88	6.69
46+00			4.82	870.09	
				864.08	6.01
T.B.M.			8.99	873.92	
TBM	.83	874.75			
^{105.} 46+00			4.85	869.90	
44+00			4.53	870.27	5.94
				864.28	
42+00			3.80	870.95	
				864.48	6.47
40+00			3.89	870.86	
				864.68	6.18

Top fence post East side ditch
48+65

	+	π	-	εL
①			3.89	870.86
	5.30	876.16		
58+00			5.06	871.10
			864.88	6.22
36+00			5.32	870.84
			865.08	5.76
34+00			3.81	872.35
			865.28	7.07
32+00			3.37	872.79
			865.48	7.31
30+00			5.13	871.03
			865.68	5.35
①			5.13	871.03
			865.88	
	5.14	876.17		
28+00			4.22	871.95
			865.88	6.07

26+00

+

π

-

EL

3.58 872.59
866.08 6.51

T.B.M. #4

5.71

← CULVERT AT END 870.46
C.M.P. AT Co. Rd. 400 N.

870.52

5.64

SEND

870.53

EL. 866.08 AT STA. 26+00

	+	π	-	EL	Cut
T.B. m. #				870.52	
	6.59	877.11			
24+00			4.03	873.08	
				866.28	6.80
				866.42	6.66
22+00			2.01	875.10	
				866.48	8.62
				866.76	8.34
20+00			3.06	874.05	
				866.68	7.37
				867.10	6.95
0			3.06	874.05	
	5.33	879.38			
18+00			5.66	873.72	
				866.88	6.84
				867.44	6.29
16+00			5.40	873.98	
				867.08	6.90
				867.78	6.20
14+00			3.11	876.27	
				867.68	5.59
				867.52	5.75

1-19-72
AL-π

G-N
Steve φ

49

2290
New Grade
From STA. 16+00
To 0+00

10% Grade
866.08 AT STA. 26+00
867.08 AT STA. 16+00
~~871.88 AT STA. 0+00~~
~~30% Grade~~

16+34

Q of Ditch going EAST ARMA

	+	π	-	FL.
		879.38		
12+00			4.31	875.07 868.28 6.79
				867.96 7.11
0			4.31	875.07
	3.28	878.35		
10+00			3.84	874.51 868.88 5.63 868.40 6.11
8+00			4.09	874.26 869.48 4.78 868.84 5.42
6+00			3.33	875.02 870.68 3.94 869.28 5.74
4+00			3.54	874.81 870.68 4.13 869.72 5.09
①			3.54	874.81
	4.74	879.55		

+	π	-	EL.
2+00		4.06	875.49 871.78 4.21 870.16 5.33
0+00		3.40	876.15 871.88 4.27 870.60 5.55
T.B. m#1		3.88	875.67 <u>875.45</u>

T.B. m. #2 Arm A. 872.68

	5.34	878.02	
2+00	4.18	873.84 867.55 6.29 868.04 5.80	
0+00	3.88	874.14 867.05 7.09 867.78 6.36	

4.00' Top Headwalk to Bottom
of 12" C.M.P. AT 0+00

ELV. top of Headwalk 875.45
- 4.00

Elev. Bot. c.m.p. 871.45

0+00 Elev.
Bot. Ditch

3+32 867.05 AT STA.
0+00
Bot. Ditch
Elev. 868.21 867.88 AT STA.
3+32

2590

872.68 Top C.M.P.
867.88 Elev. Bot. Ditch

4.80 Cut AT
Book. off
C.M.P.

T.B.M. #2 + π - EL,
872.68

6.06878.74

T.B.M. #2A

4.19 874.55

3-13-72

52

Spike w. side of Power Pole
At Bennette Drive

+ * - EL
866.07

STA
80+00 5.70 871.77

ONE 10' HCMP AT STA ON R.

ONE 8' HCMP AT STA 80+65 ON L.
ONE 30' CMP AT STA 81+35 ON L.

84+00 4.55

ONE 16' CMP AT STA 86+00 ON R.
ONE 6' CMP AT STA 86+00 ON L.

VAL 9-14-71 66
T. STEVE

CROSS SECTION ON COMPLETED
DITCH, GARVEY NEIL

L			HL			TOP	R
+26	+16	+2	80+00	+2	12	+30	
5.50	5.75	12.06	12.39	12.18	6.05	5.58	
866.27	866.02	859.71	859.38	859.59	865.72	866.19	
			+46	+55	+65		
			5.76	6.31	6.69		
			866.01	865.46	865.08		

+25	+14	+2	84+00	+2	+12.5	+25
4.75	5.40	11.12	11.30	11.24	5.42	5.20

+40	+50	+
5.66	5.97	

	+	π	-	EL
78+00	5.361			

L

Q

67

R

<u>+25</u>	<u>+12</u>	<u>+2</u>	<u>78+00</u>	<u>+2</u>	<u>+15</u>	<u>+25</u>
5.52	6.14	11.54	11.66	11.64	5.95	5.51

<u>+</u>	<u>+</u>	<u>+50</u>
		6.54

	+	↑	-	EL
BM#5P				870.11
	3.21	873.32		

PIT ALONG @ ALTA 79
 300N, 47+63 Steve P R

+5 E. OF BRIDGE	8.20	+4	+12	+30
8.45	7.80	6.43	6.18	
846.87	865.12	865.52	866.89	867.14
		+50		
		5.70		
		867.62		

+8 TDB.	+3	47+00	+1	+5	+25
6.12	7.96	8.56	8.15	6.93	6.44
867.20	865.36	864.76	865.17	866.39	866.88
		+20	+50		
		5.52	6.03		
		867.80	867.29		

+15	+5	+2	46+00	+1	+8	+20
5.45	5.89	7.95	8.39	8.11	6.40	6.32
867.87	867.43	864.93	865.21	866.92	867.00	
		865.37				
			+50			
			6.21			
			867.11			

+15	+5	+3	45+00	+5	+8	+13
5.27	5.87	7.77	7.93	7.87	6.47	5.94
868.05	865.55	865.39	865.45	866.85	867.38	
	867.45		+25	+50		
			6.15	6.10		
			867.17	867.22		

\pm	π	-	EL
H1(1)		5.42	867.90
8.20	876.10		

90

\pm	π	-	EL	\pm	π	-	EL
<u>+18</u>	<u>+7</u>	<u>+1</u>	<u>4400</u>	<u>+4</u>	<u>+8</u>	<u>+10</u>	
7.43	7.85	10.65	10.86	10.49	7.01	7.44	
868.67	868.25		865.74	865.61	869.09	868.66	
			865.45				
				<u>+25</u>	<u>+50</u>		
				7.65	7.45		
				868.45	868.65		
<u>+18</u>	<u>+8</u>	<u>+4</u>	<u>4300</u>	<u>+2</u>	<u>+8</u>	<u>+25</u>	
6.05	6.49	10.70	10.80	10.70	6.31	6.10	
870.05	869.63		865.30	865.40	869.79	870.00	
			865.40				
				FENCE			
				<u>+50</u>			
				6.25			
				869.85			
<u>+18</u>	<u>+8</u>	<u>+3</u>	<u>4200</u>	<u>+2</u>	<u>+10</u>	<u>+25</u>	
5.16	5.39	10.40	10.85	10.59	5.29	5.44	
870.94	870.71		865.25	865.53	870.81		
			865.70				
				<u>+47</u>			
				5.91			
				870.19			
<u>+20</u>	<u>+8</u>	<u>+2</u>	<u>4100</u>	<u>+2</u>	<u>+9</u>	<u>+25</u>	
5.06	5.50	10.12	10.52	10.00	5.20	5.18	
871.04		865.98	865.58	866.10	870.90	870.92	
	870.60						
				<u>+48</u>			
				5.61			
				870.49			

