

3 - 80 - 001 BENSON BRDG.

BENSON  
BRIDGE

3-80-001

★ TELEDYNE  
MINING TRANSBOOK

OCT. 20, 1980

3-80-001

AM FOGGY & COLD 35°-40° PM WARM & CLEAR

BENSON MARINA BRIDGE

50°-60°

P-LINE

G.L. RICHARDSON, K. SIZEMORE, P. WARD

PI - E. POT

490.89 90°28'

PI. STA 10+00<sup>00</sup> - E.POT  
HORIZ  $\Delta: 12^{\circ}22'25''$  LT.

PI - E. BRG

74.64 90°49'

PI - W BRG

198.19 90°21'

PI - PI<sup>1</sup>

417.05 90°01'

PI<sup>1</sup> - PI<sup>2</sup>

BACK PI

$\Delta$  DEF RT 4°59'00"

CACHE VALLEY DAIRY SMOKE STACK EAST EDGE

HUB  
TACK

71.05

33°21'40"

E.POT

12°22'25"

PI 10+00

8.12 8.11  
16.23 E.BRG

16.18  
8.09 8.09 W.BRG

N

PI<sup>1</sup>



BENSON MARINIA BRIDGE ALIGNMENT

10-20-80 3-80-001

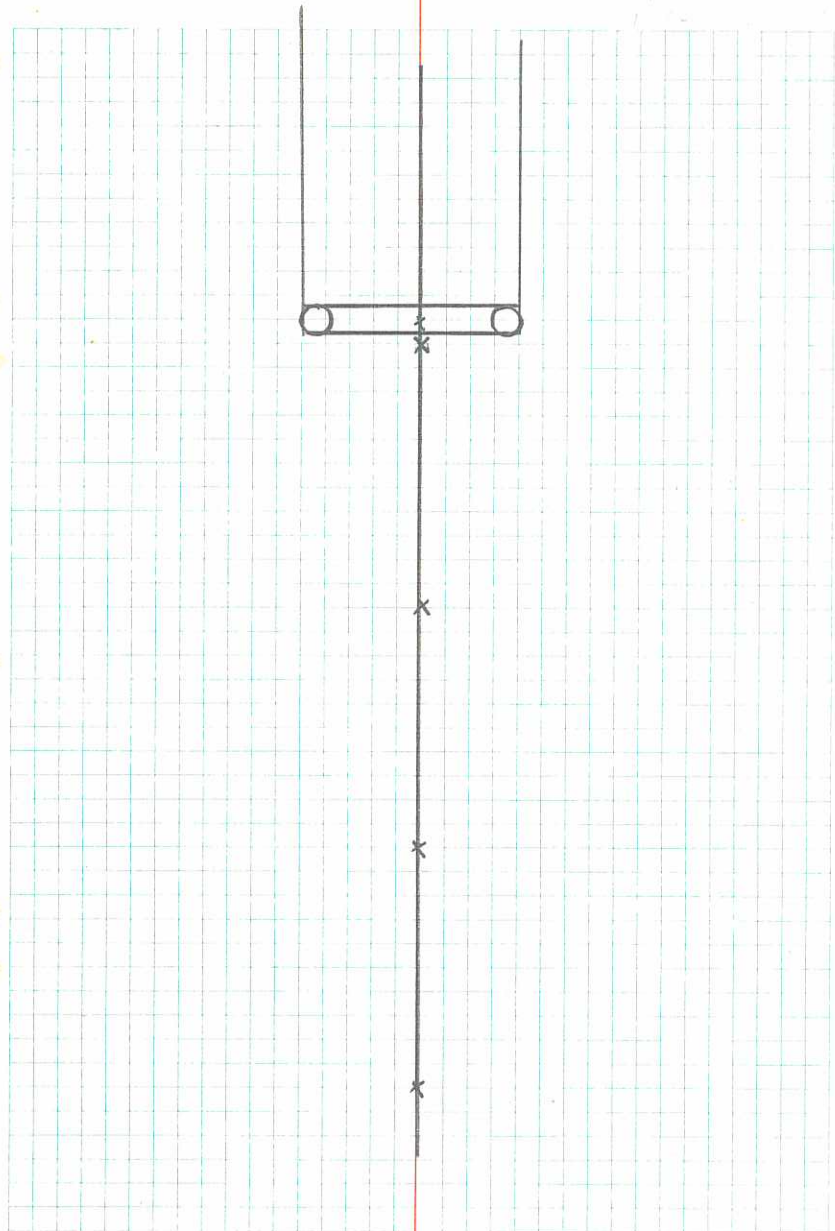
8+0175 WEST @ BRIDGE ABUT.

8+00

7+50

7+00

6+50 BEG. PROJECT



10+00 PI

9+50

9+25.31 EAST Q. OF BRIDGE ABUT.

9+00

8+50

190 0.0  
74.29

12°22'25" LT



12+00

11+50

11+00

10+50

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\*

CROSS SECTIONS

10-20-80  
(3-80-001)

LEVELS TO BEGIN PROJ.

BENSON MARINIA BRIDGE

K. SIZEMORE

G.L. RICHARDSON

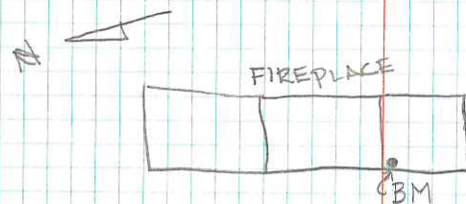
P. WARD

+2<sup>03</sup> 20.41  
4527.94

+8<sup>16</sup> 20.26 -1<sup>88</sup> 18.38  
4527.78 4525.91

+4<sup>86</sup> 17.33 -5<sup>23</sup> 12.10  
4524.86 4519.63

BM ASSUMED ELEV 4520  
FL = 44 12 42



99.2' No. of EAST SIGHT

C	+	HI	-	EL
L	8+00			
BEN	7+97	P.D. GUY NORTH		22' NORTH
K.S				
G.L				
P.W	7+75			
	7+50			
	7+32	GUARD RAIL	-	7+68 ON SOUTH 10'
	7+00			
BM	6+50			

20.41  
4527-24

8 NORTH					South				
29	10	10	6.5	x	7	10.2	13.6	18	
13.5	11.2	6.2	5.4	5.3	15.0	6.9	13.5	12.2	
EW	Geo.	TOP of PILE	15.2	15.2	15.0	TOP of PILE	EW	15.2	
6.9	9.2	13.0			6.9	13.5	6.9	8.4	
69	22	11	x		10	11	22	26	
11	11	5.7	5.3		5.5	15.2	12.5	13.5	
6.7	9.2	14.7	15.1		14.8	15.2	2.8	EW	
58	37	19	11	x	8	22	24	31	
11	11	9.4	5.7	5.3	14.2	9.3	12.3	13.5	
9.2	9.2	11.0	11.7	15.1	11.1	11.1	8.1	EW	
70	41	29	15	11	10	34	64	72	85
9.5	10.2	9.8	8.8	5.1	5.3	9.2	9.1	9.2	11.9
10.9	10.2	11.2	15.3	15.3	14.2	10.7	11.3	11.4	8.5
10.2	10.2	11.2	15.3	15.3	14.2	10.7	11.3	11.4	8.5
10.9	10.2	11.2	15.3	15.3	14.2	10.7	11.3	11.4	8.5
79	35	25	12	10	x	10	16	27	32
7.1	7.2	7.8	6.2	4.8	4.8	5.2	6.5	8.4	6.3
13.1	13.2	12.1	14.4	15.6	15.6	13.2	13.2	12.1	14.2
13.2	13.2	12.1	14.4	15.6	15.6	13.2	13.2	12.1	14.2
13.2	13.2	12.1	14.4	15.6	15.6	13.2	13.2	12.1	14.2

EW = EDGE WATER



	+	HI	-	ELEV
8+75				
9+05.31				
8+85.31				
8+65.31		OUTSIDE FLAT		
8+45.31		OUTSIDE FLAT		
8+25.31		ON OUTSIDE FLAT.		
108	APP	HIGH WATER		4409.61





	+	HI	-	ELEV
BM CHECK				$\begin{array}{r} 2041 \\ 4520.80 \\ 12.44 \\ \hline 4519.97 \end{array}$ +.03
	+6.16	$\begin{array}{r} 17.51 \\ 25.04 \\ \hline 5.07 \end{array}$	-5.07	
			-8.24	$\begin{array}{r} 11.25 \\ 4518.88 \\ \hline 6.10 \end{array}$

12+00

11+50

11+00

$$\begin{array}{r} 19.59 \\ 27.12 \\ \hline 8.20 \end{array}$$

28	25	20	15	X	14	27	30
13 <sup>L</sup>	12 <sup>G</sup>	11 <sup>L</sup>	7 <sup>G</sup>	6 <sup>L</sup>	7 <sup>Z</sup>	12 <sup>G</sup>	14 <sup>B</sup>
6.49	EW	8.47	11.99	12.99	12.39	EW	4.79
	6.99					6.99	
29	26	22	15	X	15	28	31
13 <sup>L</sup>	12 <sup>G</sup>	11 <sup>Z</sup>	6 <sup>B</sup>	6 <sup>L</sup>	6 <sup>Z</sup>	12 <sup>G</sup>	13 <sup>B</sup>
6.49	EW	8.39	12.79	13.49	12.89	EW	5.79
	6.99					6.99	
33	29	16	X	X	13	27	30
14 <sup>Z</sup>	12 <sup>Z</sup>	6 <sup>S</sup>	5 <sup>Z</sup>	6 <sup>L</sup>	12 <sup>Z</sup>	14 <sup>L</sup>	
5.35	EW	15.09	13.89	13.19	EW	5.79	
	6.89				6.69		

BM LEVELS FROM OS-03(06) TO

BENSON MARINA BRIDGE.

OCT. 27, 1980 COLD, CLOUDY -AM-

S. RUSSELL

P. WARD

STA.	+	HI	-	ELEV
			7 <sup>22</sup>	21 <sup>15</sup>
	4 <sup>69</sup>	28 <sup>37</sup>		
			6 <sup>22</sup>	23 <sup>68</sup>
	3 <sup>62</sup>	30 <sup>60</sup>		
			5 <sup>65</sup>	26 <sup>98</sup>
	4 <sup>17</sup>	32 <sup>63</sup>		
			5 <sup>81</sup>	28 <sup>46</sup>
	6 <sup>30</sup>	34 <sup>27</sup>		
			4 <sup>79</sup>	27 <sup>97</sup>
	7 <sup>17</sup>	32 <sup>76</sup>		
			4 <sup>20</sup>	25 <sup>59</sup>
	4 <sup>65</sup>	30 <sup>49</sup>		
			4 <sup>97</sup>	25 <sup>84</sup>
	5 <sup>49</sup>	30 <sup>81</sup>		
			2 <sup>50</sup>	25 <sup>32</sup>
	17 <sup>54</sup>	27 <sup>82</sup>		

BM: NE CORNER OF CONC. PUMP BASE

STA 9+35.50 JOB OS-03(06) EL. 4410.28

BM CONT

STA + HI - ELEV

BM ON BARBQUE

4413<sup>04</sup>

2<sup>23</sup> 13<sup>04</sup>

4<sup>70</sup> 15<sup>27</sup>

7<sup>45</sup> 10<sup>57</sup>

6<sup>04</sup> 18<sup>02</sup>

7<sup>57</sup> 11<sup>98</sup>

3<sup>45</sup> 19<sup>55</sup>

6<sup>27</sup> 16<sup>10</sup>

7<sup>01</sup> 22<sup>32</sup>

7<sup>16</sup> 15<sup>36</sup>

2<sup>57</sup> 22<sup>52</sup>

4<sup>57</sup> 19<sup>95</sup>

6<sup>53</sup> 24<sup>52</sup>

6<sup>70</sup> 17<sup>99</sup>

5<sup>51</sup> 24<sup>69</sup>

6<sup>55</sup> 19<sup>18</sup> \*

4<sup>58</sup> 25<sup>73</sup>

21<sup>15</sup>

RETURN TRIP

STA + HI - ELEV

6<sup>05</sup> 33<sup>05</sup>

4<sup>25</sup> 27<sup>00</sup>

6<sup>21</sup> 31<sup>25</sup>

4<sup>01</sup> 24<sup>34</sup>

7<sup>50</sup> 28<sup>35</sup>

5<sup>19</sup> 20<sup>85</sup>

6<sup>26</sup> 26<sup>04</sup>

6<sup>25</sup> 19<sup>38</sup> \*

7<sup>41</sup> 25<sup>53</sup>

6<sup>67</sup> 18<sup>12</sup>

4<sup>37</sup> 24<sup>79</sup>

2<sup>00</sup> 20<sup>42</sup>

7<sup>23</sup> 22<sup>42</sup>

7<sup>67</sup> 15<sup>19</sup>

7<sup>25</sup> 22<sup>86</sup>

4<sup>25</sup> 15<sup>11</sup>

6<sup>31</sup> 19<sup>86</sup>

3<sup>76</sup> 13<sup>55</sup>

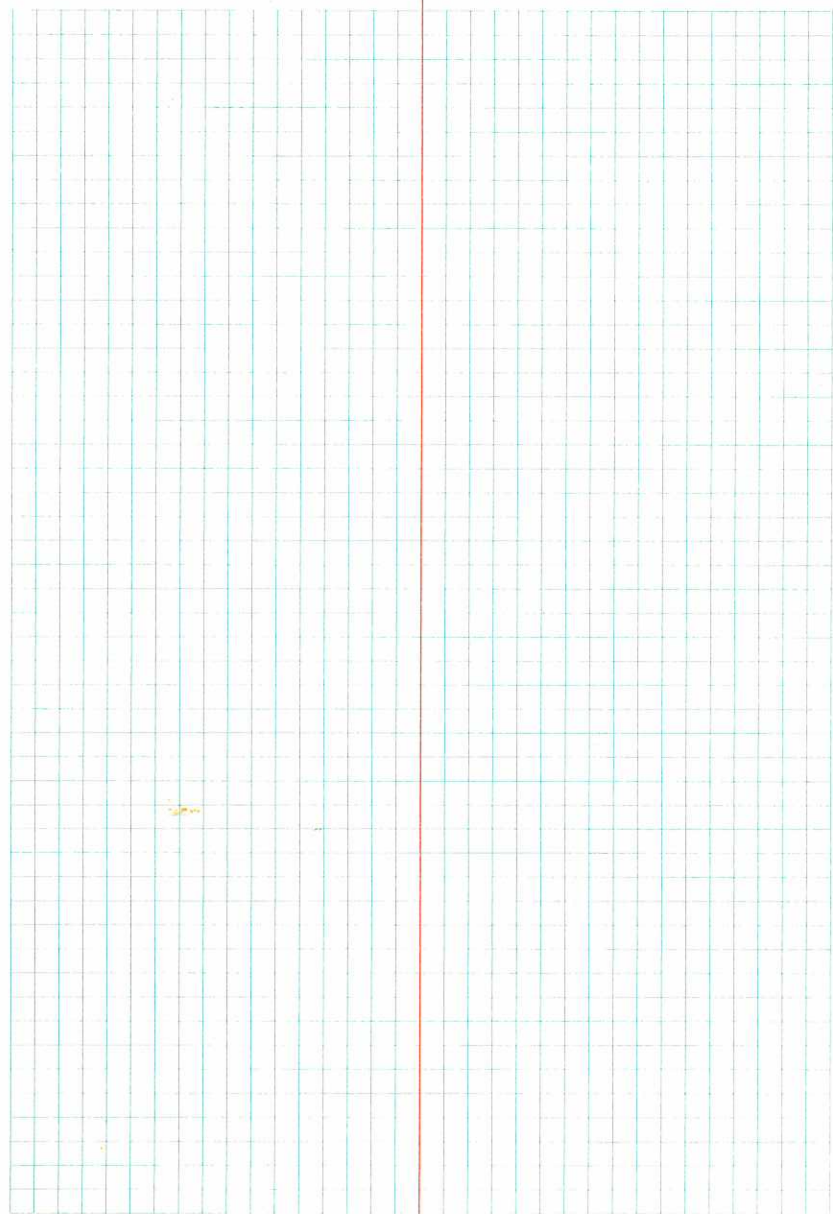
4<sup>86</sup> 17<sup>31</sup>

2<sup>82</sup> 12<sup>45</sup>

2<sup>23</sup> 15<sup>27</sup>

Bm 4413<sup>04</sup>

+	HI	-	ELEV
		15 97	11 00
792	26 97		
		10 74	19 05
391	29 29		
		5 33	25 88
560	31 21		
		5 29	25 61
400	30 90		
		6 71	26 90
445	33 61		
		5 39	29 16
660	34 55		
		5 10	27 95
	33 05		



LEVEL RUN RECHECK

10-29-80 AM CLEAR COOL 39°

S. RUSSELL

P. WARD

CODE  
BASE 9

7 09 18 61

4 38 25 70

8 6 39 21 32  
7 00 4 38

3 34 27 71

7 7 30 24 37  
6 29 3 34

4 65 31 67

6 5 32 27 02  
7 00 2 25

4 92 32 34

31 67

CONC 5  
DITCH

6 10 33 69

6 27 27 42

4 4 36 27 59

6 85 31 95

3 4 82 25 10

4 46 29 22

2 4 62 25 46

4 96 30 08

1 2 19 25 12

17 03 27 31

441028



					+0.03
			1686	10 31	
1	2 02	27 17 1686	4 67	25 15	
2	4 34	29 82 4 67	4 55	25 48 4 34	
3	4 93	30 03 4 55	6 42	25 10 4 03	
4	3 94	31 52 6 03	6 03	27 58 3 94	
5	6 18	33 61 6 03	4 81	27 43 6 18	
6	5 20	32 24 4 21	4 81	27 04	
7	7 47	31 85	3 61	24 38 7 47	
8	6 67	27 99 6 01	4 21	21 32 6 67	
	6 92	25 53 21		18 61 6 92	

JAN. 23, 1981

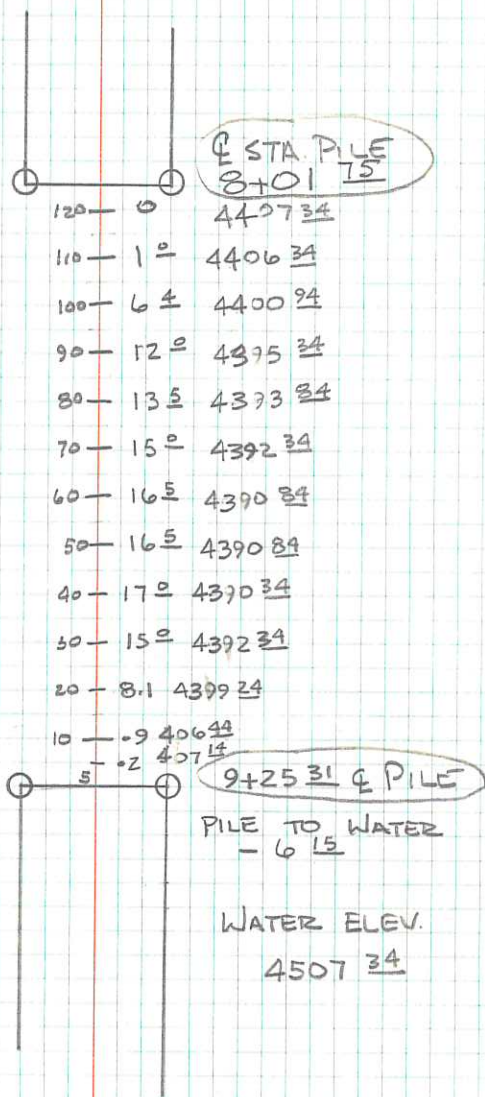
JIM GOLDBERG AND DEAN  
OF U.DOT MET WITH SCOTT AND  
ME TO GO OVER MARINA BRIDGE  
TALKED OF SHORTENING SPAN TO  
ABOUT 5 FT INSIDE OF EX. PILE  
AND RAISE BRIDGE UP APP. 3'  
USE A TYPE II BEAM WITH  
NO PIER.

JOB ASSIGNMENTS TO BE AS  
THE OTHER JOBS WE WILL  
TAKE CARE OF ALL ROAD WORK  
AND UTILITIES.

ELEV. OF PILE  
4513 51



ELEV. OF PILE  
4513 42



3.448

2.229

1.219

3.882

2.677

1.205

8.01.75

9.25.31

8+25.31