SURVEY DATA
GILBERT/CHANDLER

MCFCD

INDEX

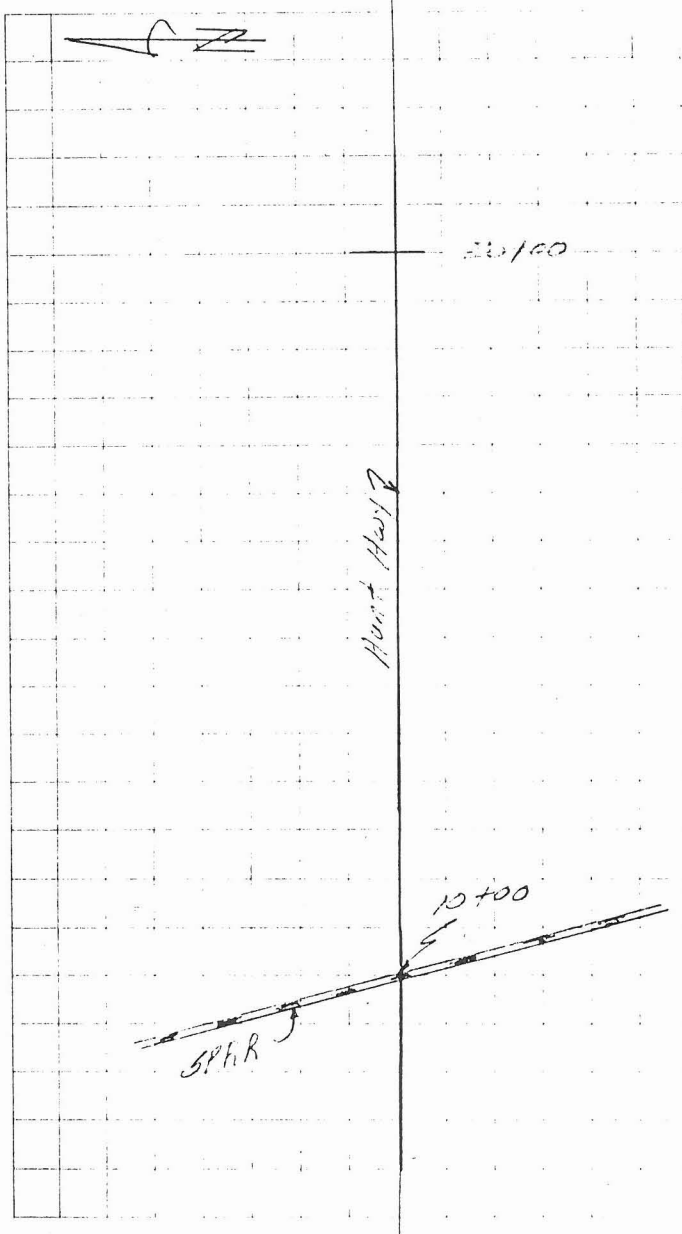
35901.00	X-Section - SPRR N. of Hunt Hwy	10-6-88	1-2
35901.00	Profile Hunt Hwy @ SPRR	10-6-88	3-8
35901.00	Profile Gilbert Rd & Elliot Rd @ SPRR	10-10-88	9-24
35901.00	Profile E. Bank Consolidated Canal N. of SPRR	10-10-88	25-30

Property of
Flood Control District of MC Library
Please Return to:
2801 W. Durango
Phoenix, AZ 85009

MCFCD | Profile Hunt Hwy @ SPRR

10/6/83

998/4



MCDOT X-Section taken @ SPRR N. of Hunt Hwy, ℄ 1400 SE'ly of Consolidated Canal

TBM#7.35	0.84	22.00 T	1221.16
X-Section			
X-Section			
X-Section			
X-Section			
TBM#7-36		0.93	21.07 (21.09)

Property of Flood Control District of MC Library 2801 W. Durango Phoenix, AZ 85009

NOTE'S	BY	DATE
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	TO	DATE
DELIVERED		

L. Jon Dyke
Surveying
MCDOT

10/6/89

8.33
2

CPS-2 R.R. (BK 317 Pg 40)

13.85	12.9	21.4	21.15	20.1	17.7	16.85
8.75	9.1	0.6	0.85	1.9	4.3	5.15
37W	28W	4W	℄	8E	13E	34E
B.S.	B.S.	Bank	R.R.	Bank	B.S.	E.O.E.

15.25	15.7	16.90	16.65	16.6	16.5
6.75	6.3	5.10	5.35	5.4	5.5
48W	58W	62W	300E	200E	100E
E.O.R.	E.O.R.	E. T.C.D.			

15.45	17.00	14.30	16.75	16.6	16.7
6.55	5.00	7.70	5.25	5.4	5.3
73W	69W	65.5W	400E	300E	300E
E.O.E.	W. T.C.D.	Inv. C.D.			

15.15	14.9	16.95	16.8	16.85
6.85	7.1	5.05	5.2	5.15
100W	150W	700E	800E	700E
Fld.	Fld.			

CPS-2 R.R. (BK 317 Pg 42)

MCFCD Profile Hunt Hwy @ SPRR 10/6/38 393/6

IBM# HC-68	4.09	23.35 ↑		1219.26
10+00			1.0	22.35
10+50			2.95	20.4
11+00			4.3	19.05
12+00			5.15	18.2
13+00			5.2	18.15
14+00			5.2	18.15
15+00			5.35	18.0
16+00			5.2	18.15
TP#1	5.29	23.40 ↑	5.24	18.11
17+00			5.05	18.35

½"BS: SE Cor Hunt Hwy & SPRR (BA 317 Pg 42)

℄ Hunt Hwy

" " "

" " "

" " "

N. Edge Hunt Rd

" " " "

" " " "

" " " "

OPS - Hunt Hwy: 16+00

N. Edge Hunt Hwy

NICFCD	Rosfik – Hunt Hwy		@ SPRR		
		1223.40			
		↑			
18+00			5.2	18.2	
19+00			5.25	18.15	
20+00			5.1	18.3	
TP#2	4.72	23.03	5.09	18.31	
		↑			
TP#1	5.29	23.39	4.93	18.10	
		↑			
TBM#HC-68			4.15	19.24	(19.26)

10/6/88

398/3

N. Edge Hunt Hwy

" " " "

" " " "

ORS - Hunt Hwy - 20+00

Loop Return

Loop Return

MCFCO X-Section taken @ SP R.R. 575' NW'ly of Hunt Hwy

TBM# 7-37	2.35	23.65		1221.30
		℄		

X-Section

X-Section

X-Section

X-Section

TBM# 7-37	2.35	21.30	(21.30)

CPS - Loop 1 from

L. Jon. Sytes
R.W. Survey
Mobstetter

10/10/83

398/15

C.L. ℄ R.R. - (5-5-7 pg 42)

16.10	12.55	21.75	21.35	20.6	16.55	15.5
7.55	11.1	1.9	2.3	3.05	7.1	8.15
44W	31W	5W	0	9E	21E	45E
T.S.	B.S.	Berm	℄ R.R.	Berm	B.S.	E.O.F.

16.38	14.37	16.4	15.26	16.4	16.35	16.2	15.8
7.27	9.28	7.25	8.2	7.25	7.3	7.45	7.85
63W	65.5W	68W	75W	40E	30E	30E	10E
E. TCD	J.J. CD	W. TCD	E.O.F.				

14.7	14.75	14.9	16.65	16.95	17.25
8.95	8.9	8.75	7.0	6.7	6.4
300W	200W	100W	50E	60E	70E

17.6	17.5	17.45
6.05	6.15	6.2
100E	90E	80E

MCFCD | Profile - Gilbert - N of SPRR

℄ Cullumber Ave - 12+94

Beg. Island - 14+40

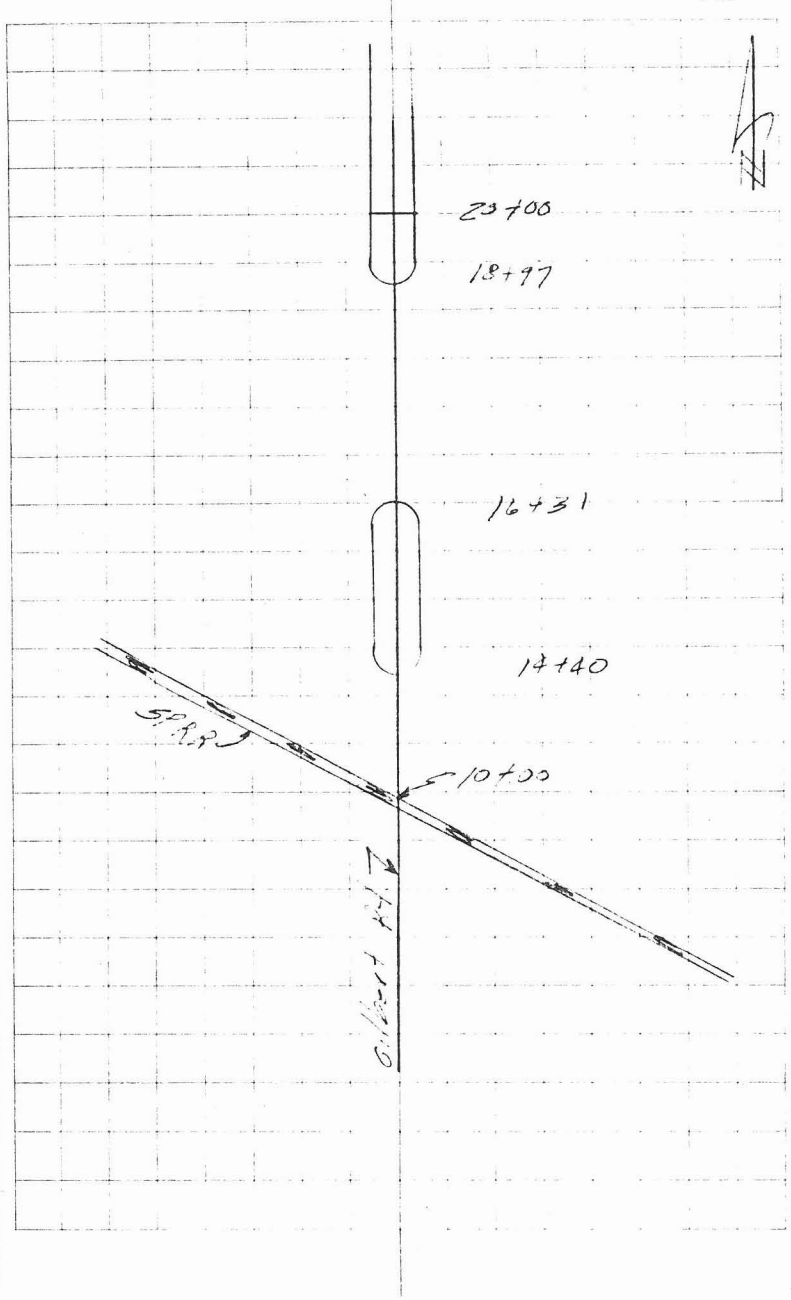
End Island - 16+31

℄ Page Ave 17+64

Beg Island 18+97

10/20/33

598
13



M McECD — Profile - Gilbert Rd - N of SPRR — 10/3/33 — 878/14

TBM RO-22	5.36	40.53 ↑		1235.17
TP#1	2.00	38.80 ↑	3.73	36.80
10+00			1.52	37.28
10+50			1.70	37.10
11+00			3.06	35.74
12+00			4.66	34.14
12+94			5.57	33.23
13+00			5.62	33.18
14+00			5.45	33.35
14+39 ±			5.36	33.44
14+40			4.91	33.89
15+00			4.71	34.09

CPS in Pavement - (Bk 807 Pg 12)

P.R. Spk - N. side ℄ R @ E side Gilbert Rd. -

Int. R.R. E. Gilbert Rd.

℄ Gilbert

" "

" "

Int. Gilbert Rd & Cullumber Ave

℄ Gilbert

" "

Gutter

Top Curb - Reg. Island

Top E. Curb - Island

1 MCFCD	Rolfe Gilbert Rd - N. of SPRR			
		1238.80 ↑		
TP#2	4.32	38.40 ↑	4.72	34.08
16+00			4.40	34.00
16+31			4.39	34.01
16+31.3			4.95	33.45
17+00			5.12	33.28
17+64			5.59	32.81
18+00			5.64	32.76
18+96.3			5.59	32.81
18+97			5.06	33.34
20+00			4.92	33.48
TP#3	5.06	38.55 ↑	4.91	33.49

10/10/83

398/16

T.C - Island 1+74.25

Top E. Curb

Top Curb - End Island

Gutter

℄ Gilbert

Int. Gilbert Rd & Page Ave.

℄ Gilbert

Gutter

Top Curb Beg. Island

Top E. Curb

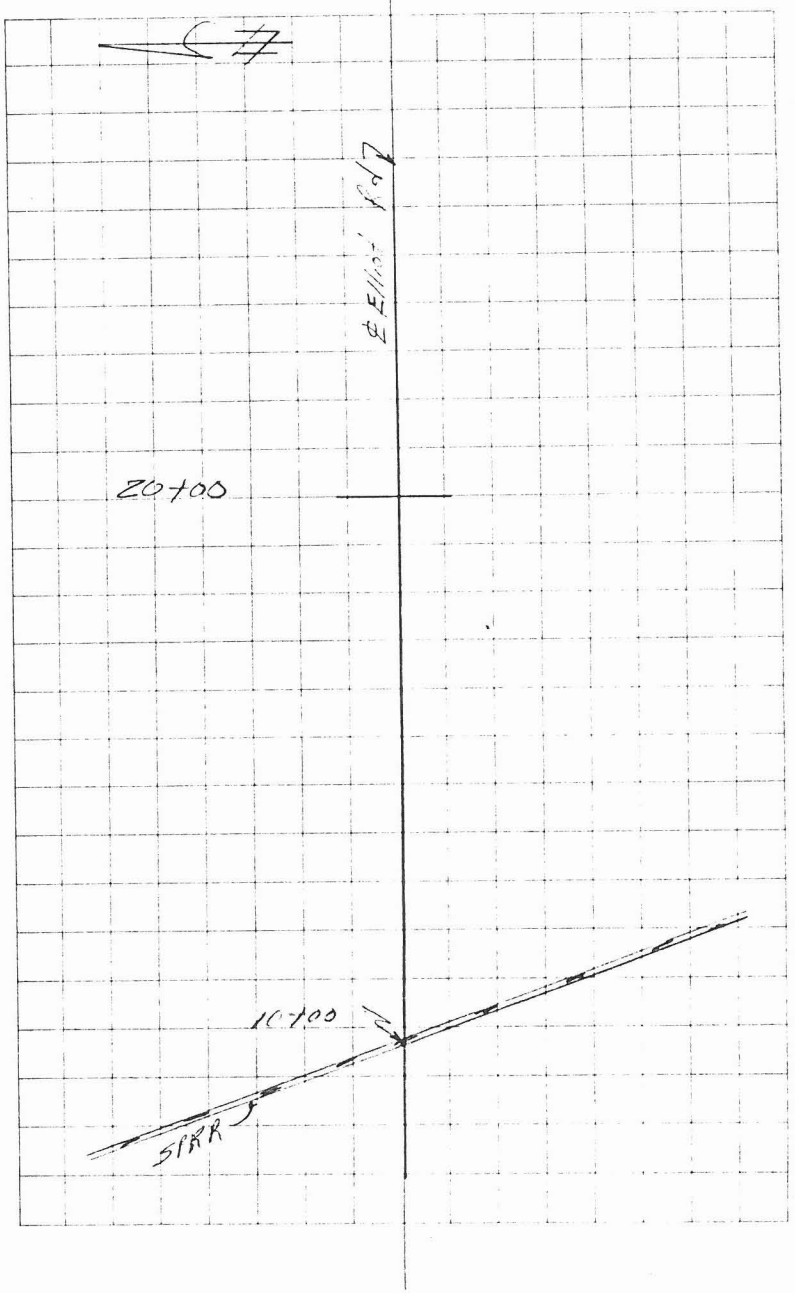
Top Curb - 16+00

10/13/39

Profile - Gilbert Rd - N. of SPKR

MCFCD		1238.56 ⊼			
TP #2	4.87	38.94 ⊼	4.48	34.07	Loop Return
TP #1	4.03	40.82 ⊼	2.15	36.79	Loop Return
TBM* RO-22			5.68	35.14	(35.17) CRS IN Street - Loop Return

NICFCD | Profile Elliot Rd @ SPRR | 10/10/33 | 895/20



MCFCD	Profile – Elliot Rd E. of SPRR			
TBM #3-1994	3.80	43.80 ↑		1240.00
10+00			3.37	40.43
11+00			3.71	40.09
12+00			4.39	39.41
13+00			4.99	38.81
14+00			4.90	38.90
15+00			4.81	38.99
16+00			4.67	39.13
TP #1	6.30	43.96 ↑	6.14	37.66
17+00			4.68	39.28
18+00			4.58	39.38

10/10/23

393
22

Cut Q-Tic - N. side Elliot (BK 307 Pg 10)

Int. Elliot Rd & SPRR

12' N. of ℄ Elliot Rd

12' N of ℄ Elliot Rd

12' N. of ℄ Elliot Rd

" " " " " "

" " " " " "

" " " " " "

BPS - 16+00 S. - TCD

12' N of ℄ Elliot Rd

" " " " " "

MCFCO	Profile – Ellicott Rd		E. of SP R
	1293.96 ft		
19+00		4.45	39.51
20+00		4.27	39.69
TBM #3-193		6.41	37.55 (37.55)

10/10/33

899
51

12 in. of E Ellicott Rd

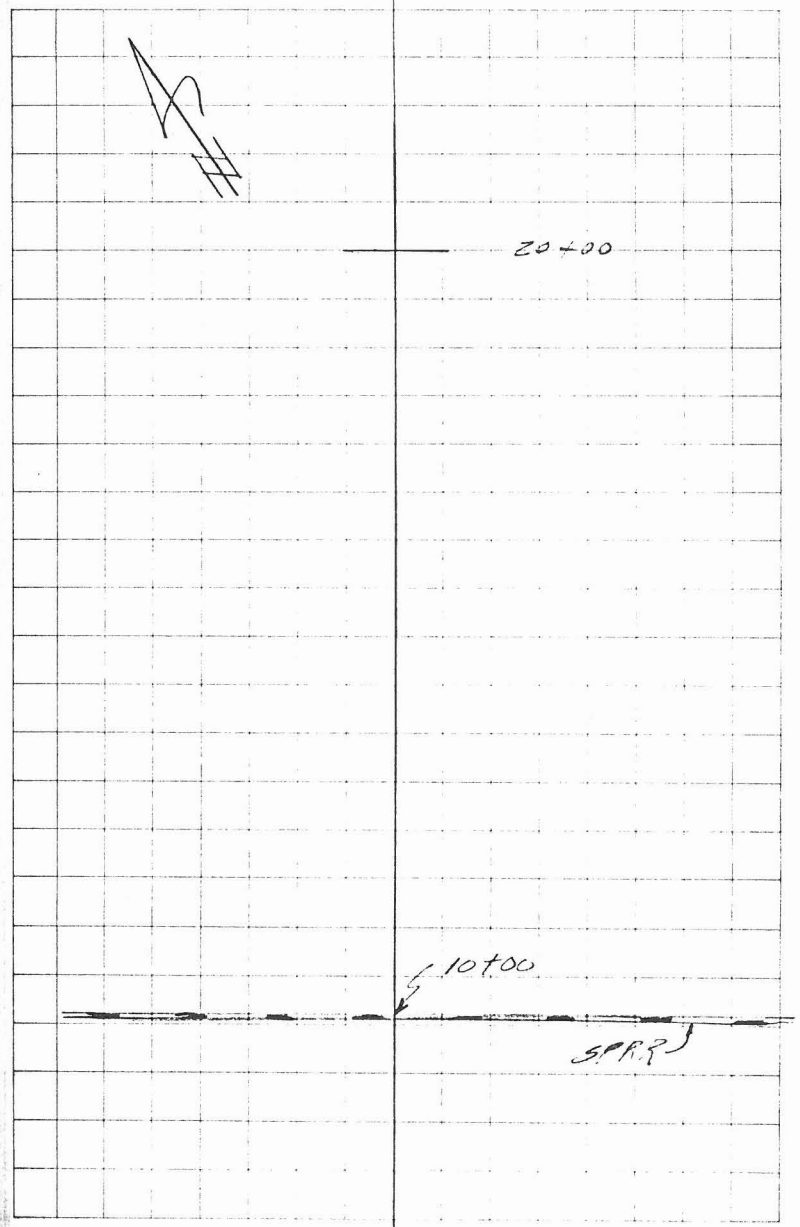
cut D – 3.70 – (5t 397 Pg 10)

MCFCD

Profile E. Bank Consolidated Canal N. of SPRR

10/10/33

B98
26



MCFCD	Profile - E. Bank Consolidated Canal & SPRR			
TBM #3-179	5.34	47.08 T		124.74
10+50			1.67	45.41
10+55			3.5	43.58
11+00			5.1	41.98
12+00				
13+00				
14+00				
15+00				

10/18/55

895
33

12+12. - E. Bank Canal (St 805 Fo 143)

Int. SPRR & E. Bank Consolidated Canal

E. Bank

E. Bank

41.83
5.25
E. Bank

41.93
5.10
E. TCD

41.83
5.25
E. Bank

41.99
5.09
E. TCD

41.83
5.20
E. Bank

42.03
5.05
E. TCD

41.98
5.10
E. Bank

42.08
5.02
E. TCD

Elliot Rd & C. Canal
up to R.R track.

	MCFCD	Profile E. Bank Canal	N. of SR87	Reduced	
1		1247.03 ↑			
	K+00				
	TP #1	3.31	47.35 ↑	3.04	44.04
	17+00				
	18+00				
	19+00				
	20+00				
	TBM 3-178			5.51	41.84 (41.83)

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1" = 5'

41.93
5.10
E. Bank

42.33
4.35
E. TCD

Bk Walk E side Canal

41.8
5.55
E. Bank

42.11
5.24
E. TCD

42.15
5.2
E. Bank

42.10
5.25
E. TCD

42.1
4.65
E. Bank

42.23
5.13
E. TCD

42.16
4.75
E. Bank

42.14
5.21
E. TCD

½" R.B. - E. side Canal (Bk. 805 Pg. 178)

BK 332

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35901.00	Site Survey – S. of Guadalupe Rd –	E. of Eastern Canal	6-13-88	93-98
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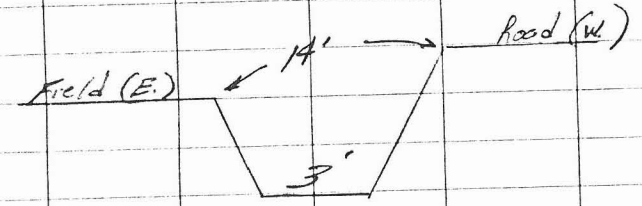
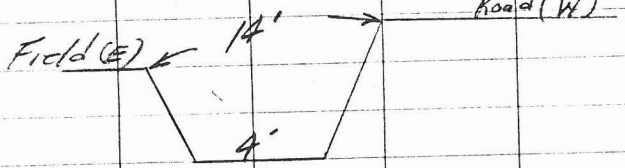
MCECD

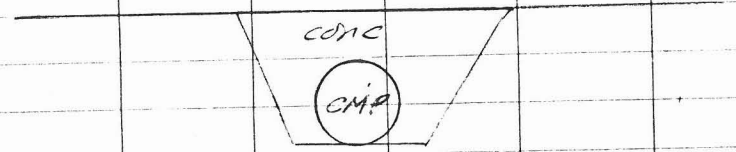
Site Survey — SPRR



Typical section - Dirt Ditch
N. of R.R.



Typ. Sect - Dirt Ditch
S. of R.R.

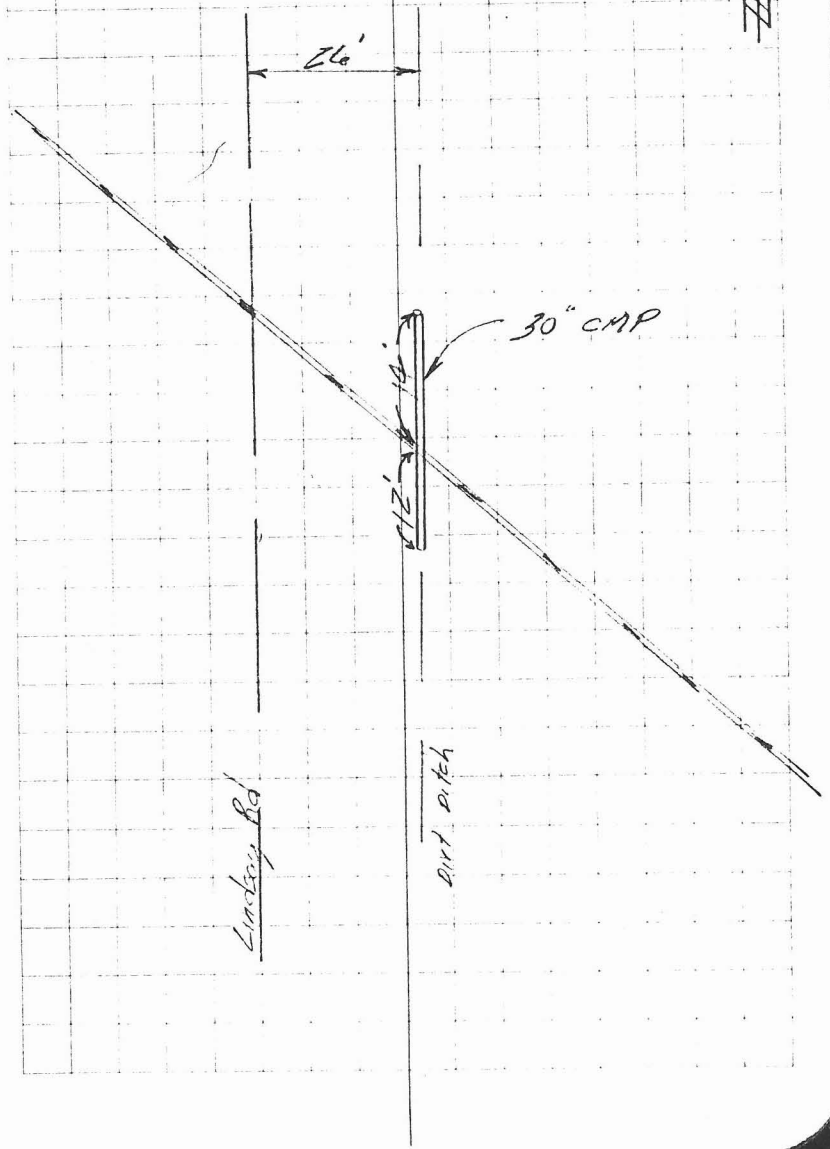


CMP under R.R.
(½ filled w/ dirt)

L. Van Dyke
R. McMurray
T. Craven

12/22/87

332
2



12/22/87

Site Survey –

MCFCD

TBM 3-185	6.82	53.80 ✓		1246.98
50' S. of R.R.				
S. End	30" CMP			
N. End	30" CMP			
50 N. of R.R.				
TBM 3-185			6.82	46.98 ✓ (46.98)

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CP5 - P.P. Pole – W. side Lindsay – 200' S. of SPRR (See Bk 807 Pg 47)

48.5 ✓
5.5
Top W. Bank

45.6 ✓
8.2
Inv. Dirt ditch

47.3 ✓
6.5
Top E. Bank

49.15 ✓
4.65
2 R.R.

43.10 ✓
10.70
Inv.

47.56 ✓
6.24
Hdwl.

43.15 ✓
10.65
Inv.

47.40 ✓
6.40
Hdwl.

48.95 ✓
4.85
Top W Bank

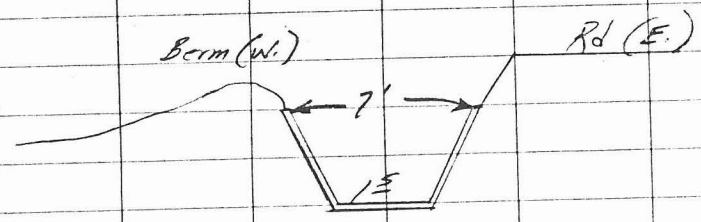
44.6 ✓
9.3
Inv. Dirt ditch

47.0 ✓
7.8
Top E. Bank

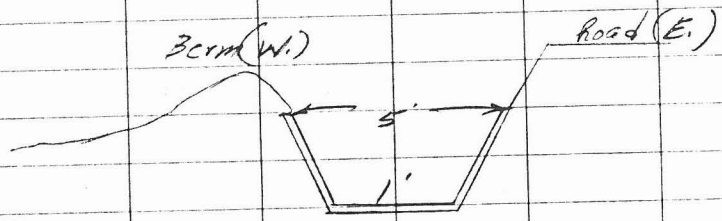
CP5 - Loop Return

MCFCD

Site Survey
SPRR



Conc Ditch
S. of R.R.



Conc Ditch
N. of R.R.

NOTE'S	BY	DATE
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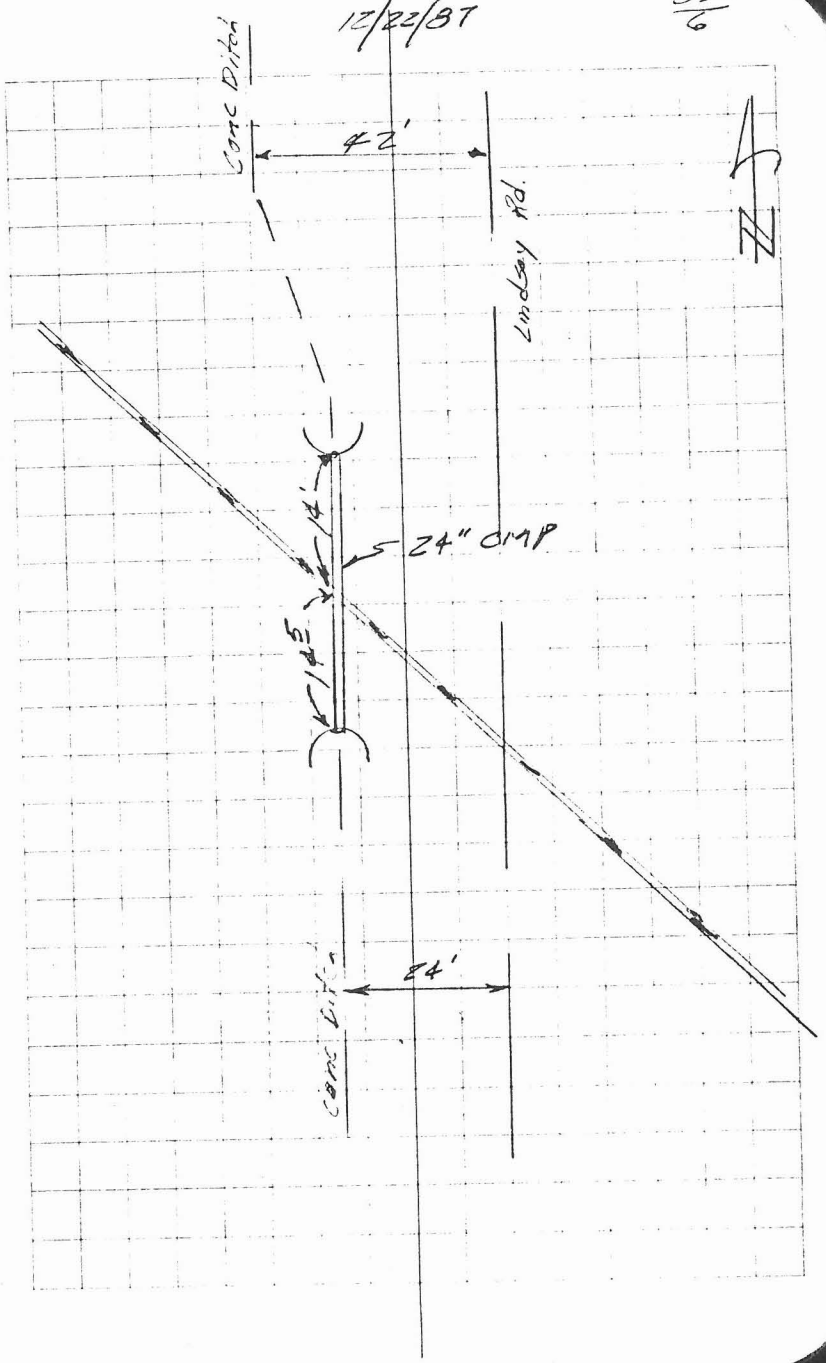
12/22/87

832/6



Site Survey -

MCFCD		SPRR (see pg 6)			
TBM #3-185	6.82	53.80 ✓			1246.98
		↑			
50' S. of		R.R.			
S. End	24"	CMP			
N. End	24"	CMP			
50' N. of		R.R.			
TBM #3-185			6.82	46.98 ✓	(46.98)

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12/22/87

CPS-Pole - W. Side Lindsay - 200' S. of SPRR
(See Bk 837 pg 7)

48.05 ✓	46.93 ✓	44.62 ✓	46.96 ✓	48.75 ✓
5.75	6.87	9.18	6.84	5.05
6'	W	Inv.	E.	6'
Berm	TCD	CD	TCD	Top Bank
48.90 ✓		43.45 ✓	46.95 ✓	
4.90		10.35	6.85	
℄		Inv.	Hdwl	
R.R.				
		43.21 ✓	47.15 ✓	
		10.59	6.65	
		Inv.	Hdwl.	
46.95 ✓	46.56 ✓	44.60 ✓	46.66 ✓	48.25 ✓
6.85	7.24	9.20	7.14	5.55
5'	W	Inv.	E.	6'
Berm	TCD	CD	TCD	Top Bank

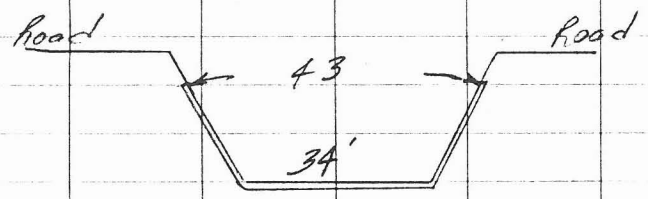
CPS - Loop Return

MCFCD

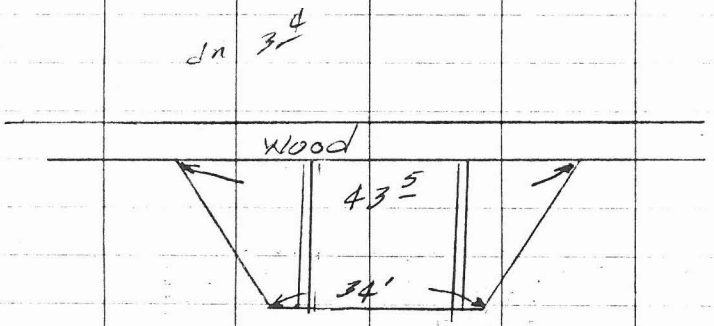
Site Survey
SPRR

12/22/87

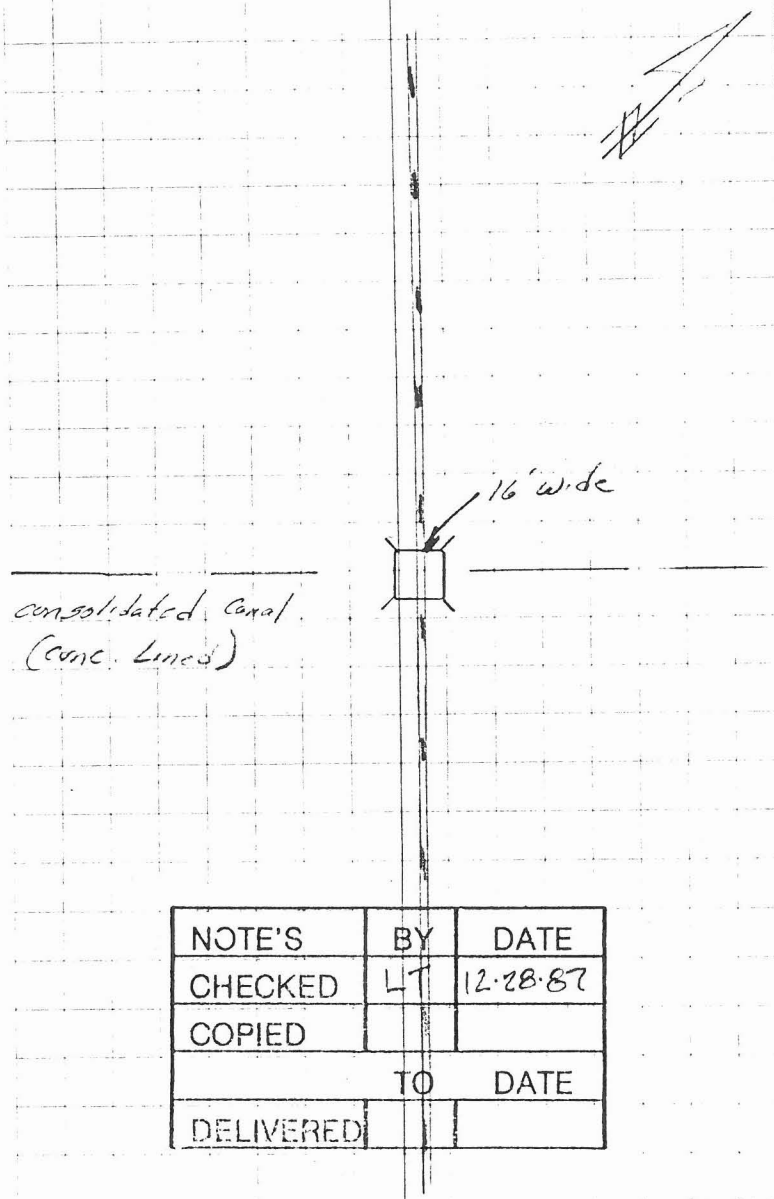
336
To



Typical X-Sect -
Consolidated Canal



R.R. Bridge over
Consolidated Canal



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	TO	DATE
DELIVERED		

MCFCD — Site Survey — SPRR (See Pg 10)

TBM HC-22	8.61	50.00 ✓ ↑			1241.39
50 S. of R.R.					
S. Edge Bridge					
N. Edge Bridge					
50 N. of R.R.					
TBM HC-22			8.61	41.39 ✓	(41.39)

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12/22/87

332/12

½" R.B. – 40' E. of Cold Water Canal & 100' S. of SPRR (See Bk 835 Pg 148)

42.7 ✓	41.41 ✓	36.15 ✓	41.45 ✓	43.35 ✓
7.3	8.59	13.85	8.55	6.65
Z4	W.	Inv.	E.	Z4
Top Bank	TCD	C.D.	TCD	Top Bank
44.69 ✓		36.01 ✓	41.35 ✓	
5.31		13.99	3.65	
E		Inv	Top	
R.R.		C.D.	Bridge opening ✓	
		36.11 ✓	41.25	
		13.89	8.75	
		Inv.	Top	
		C.D.	Bridge opening	
44.05 ✓	42.10 ✓	36.80 ✓	42.03 ✓	43.65 ✓
5.95	7.90	13.20	7.97	6.35
Z4	W.	Inv.	E.	Z4
Top Bank	TCD	C.D.	TCD	Top Bank

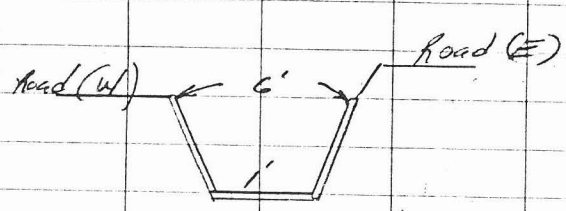
½" R.B. – Loop Return

MCFCD

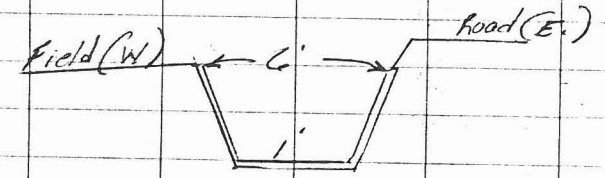
Site Survey — SPRR

12/22/87

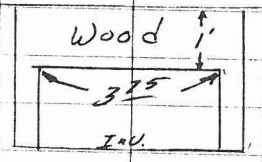
832/14



Conc Ditch S. of R.R.



Conc. Ditch N. of R.R.



Structure Under SPRR

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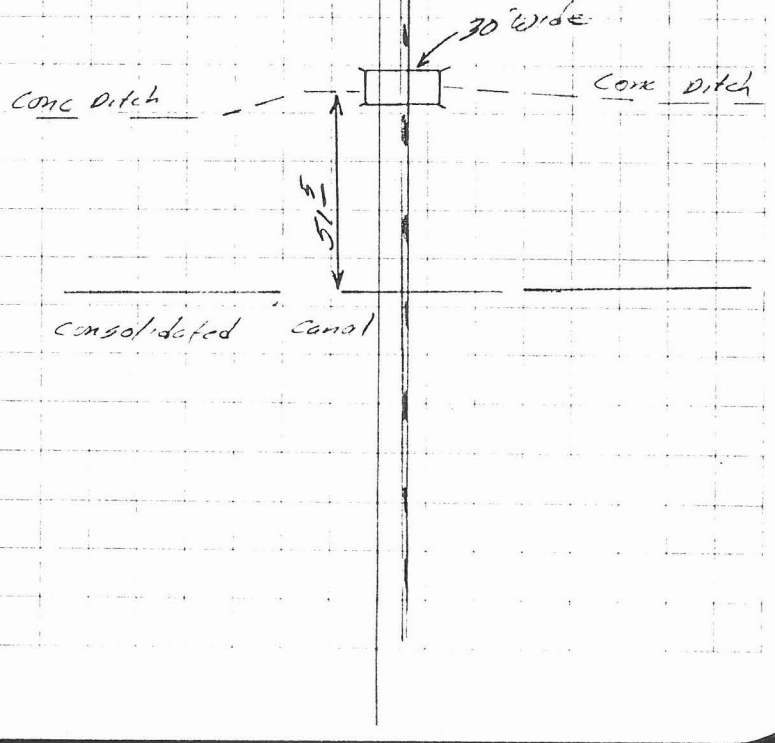


12/22/87

Site Survey

1	MCFCD		SPRR (see Pg 14)		
2	TBM HC-22	8.61 ✓	50.00 ✓		1241.39
3	65' S. of R.R.				
4	S. End Structure				
5	N. End Structure				
6	50' N. of R.R.				
7					
8	TBM HC-22		8.61	41.39 ✓	(41.39)

NOTE'S	BY	DATE
CHECKED	LT	12.25.87
COPIED		
	TO	DATE
		DELIVERED

½" RB. - 40' E. of Con. Conical ℄ 100' S. of SPRR
(see Bk 805 Pg 148)

41.62 ✓	39.25 ✓	41.83 ✓	42.35 ✓
8.38	10.75	8.12	7.65
W.	Inv.	E.	5
TCD	CD.	TCD	Top Bank
44.65 ✓	39.14 ✓	41.39 ✓	
5.35	10.86	8.61	
℄	Inv.	Top	
R.R.		Structure opening	
	39.42 ✓	41.39 ✓	
	10.58	8.61	
	Inv.	Top Struct opening	
41.86 ✓	39.33 ✓	41.90 ✓	44.15 ✓
8.14	10.67	8.10	5.85
W.	Inv.	E.	7
TCD	CD.	TCD	Top Bank

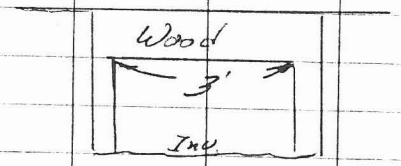
½" R.B. - Loop Return

MCFCD

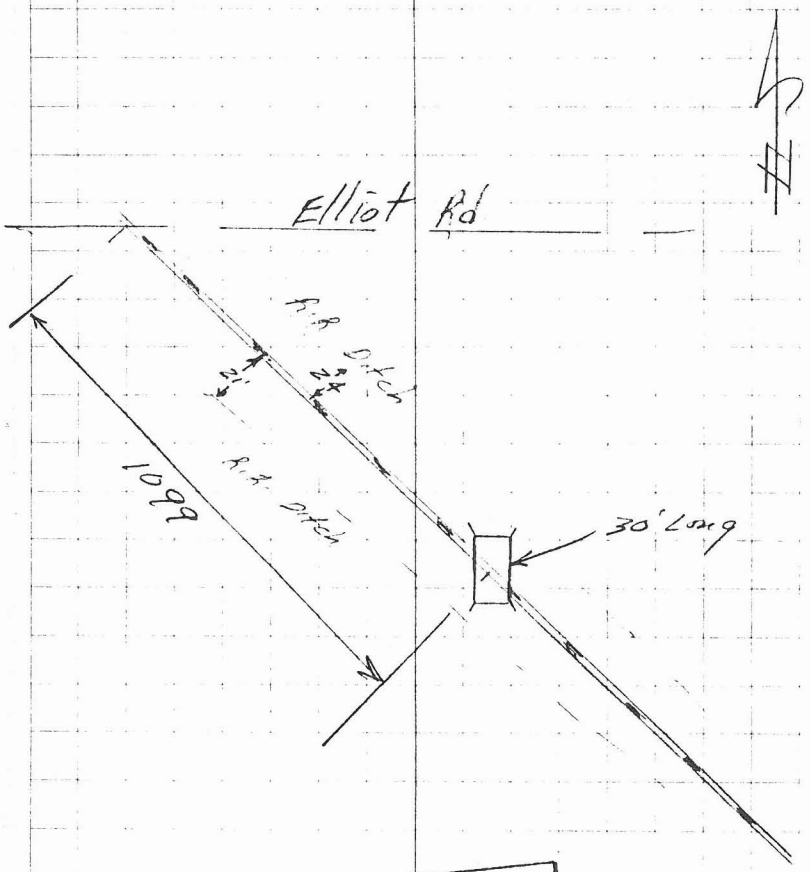
Site Survey - SPRR

12/22/87

832/18



Structure Under SPRR



NOTE'S	BY	DATE
CHECKED	LT	12.28.87
COPIED		
	TO	DATE
DELIVERED		

	MCFCD	Site Survey — SPRR (See Pg 18)		
TBM 3-192	5.39	44.70 ✓		1239.31
R.R Ditch S. of R.R				
S. End Structure				
N End Structure				
R.R. Ditch N. of R.R				
TBM 3-192		5.39	39.31 ✓	(39.31)

NOTE'S	BY	DATE
CHECKED	LT	12-23-87
COPIED		
TO		DATE
DELIVERED		

12/22/87

832/20

B.C. in H.H. @ Int. E/l of E Bank Rd
(See St 307 - Pg 3)

36.6 ✓
8.1
50 W.

37.75 ✓
6.95
50 E

42.05 ✓
2.45
℄
R.R.

38.63 ✓
4.02
Inv.

39.48 ✓
5.22
Top Struct opening

38.18 ✓
6.52
Inv.

39.58 ✓
5.12
Top Struct opening

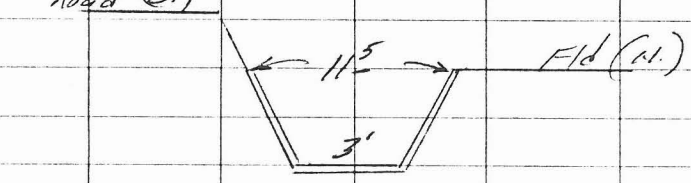
31.4 ✓
7.30
50 W

31.65 ✓
7.05
50 E.

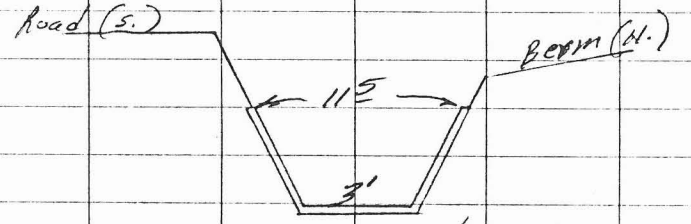
B.C. - Loop Return.

MCFCO

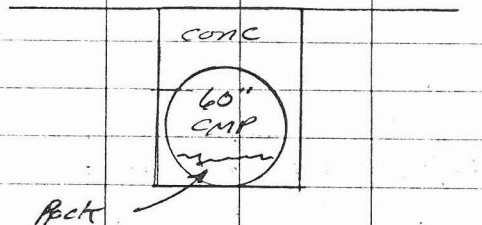
Site Survey
SPRR



conc ditch
W. of R.R.



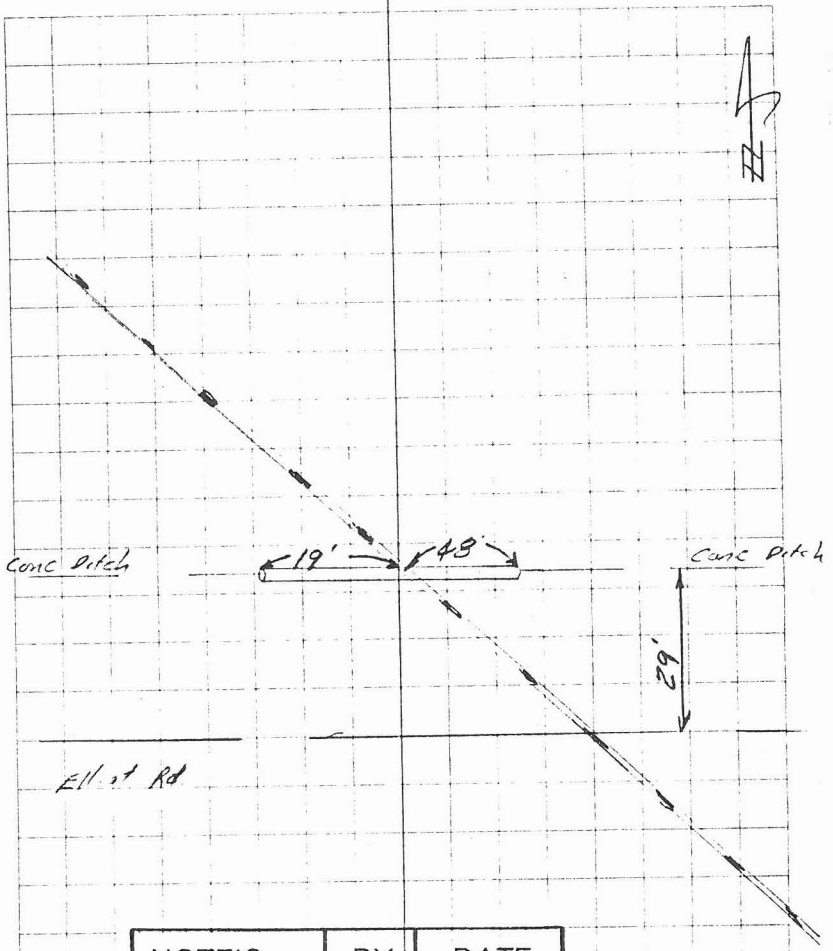
conc Ditch
E. of R.R



structure Under
SPRR.

12/22/87

832/22



NOTE'S	BY	DATE
CHECKED	LT	12-28-87
COPIED		
	TO	DATE
DELIVERED		

MCFCO — Site Survey — SPRR (See Pg 22)

12/22/87

832/27

1. TBM 3-194	3.80	43.90 ↑		1240.00
100' E. of R.R.				
E. End 60" CMP				
W. End 60" CMP				
70' W. of R.R.				
TBM 3-194			3.80	40.00 (40.00)

NOTE'S	BY	DATE
CHECKED	LT	12.28.87
COPIED		
TO		DATE
		DELIVERED

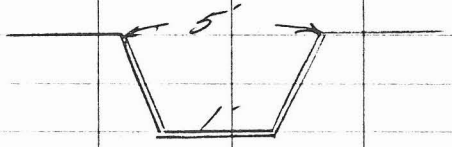
cut 0' - T.C. - N side Flwl - E. of RR @ W. End curb (See BK 307 - Pg 10)

31.8	37.06	38.68	37.14	40.2
6.1	6.84	10.22	6.76	3.7
10'	N.	Inv.	S.	13
Bcmn	TCD	CD	TCD	Top Sank
31.60	33.40	31.48	38.76	
4.30	10.50	12.42	5.14	
E R.R.	F.L.	Inv.	Hdwl	
	32.90	30.69	38.74	
	11.0	13.21	5.K	
	F.L.	Inv.	Hdwl	
36.98		33.34	36.84	40.26
6.92		10.56	7.06	3.64
H.		Inv	S.	12
TCD		CD	TCD	Top Bank

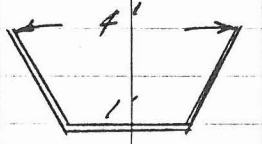
cut 0' - Loop Return

MCFCD

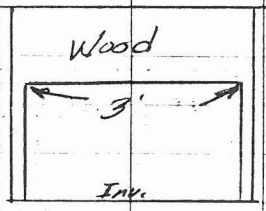
Site Survey — SPRR



Conc Ditch E. of R.R.



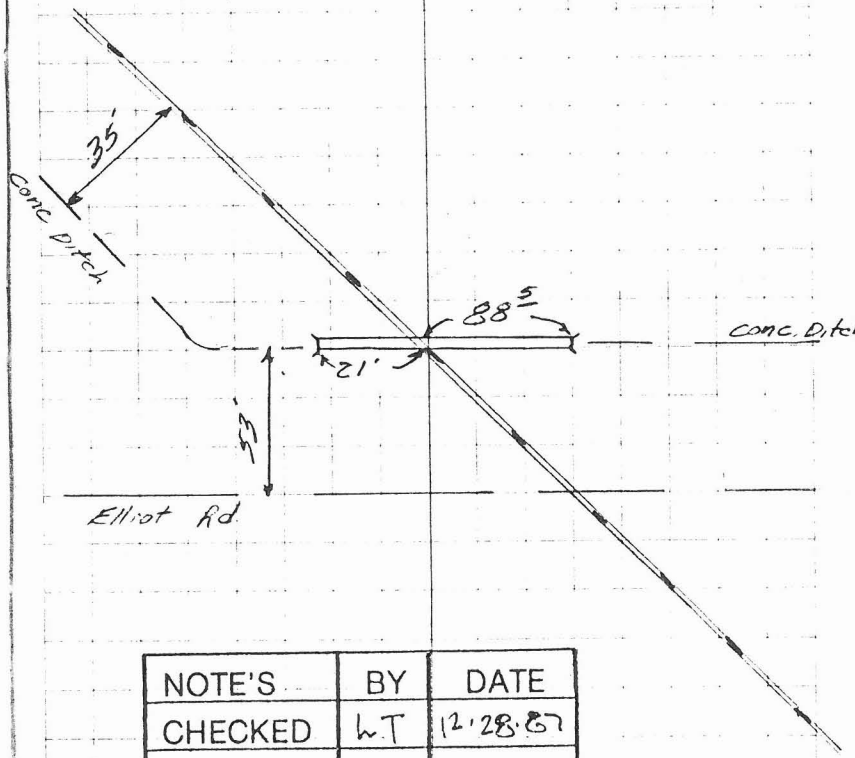
Conc. Ditch W. of R.R.



Structure Under SPRR

12/22/87

832/26



NOTE'S	BY	DATE
CHECKED	WT	12.28.87
COPIED		
	TO	DATE
DELIVERED		

Site Survey

MCFCD — SP RR - (see Pg 26)

TBM 3-194	3.90	43.90	1240.00
140' E. of R.R.			
E. End Structure			
W End Structure			
70' W of R.R.			
TBM 3-194	3.90	40.00	<40.00>

NOTE'S	BY	DATE
CHECKED	LT	12.28.87
COPIED		
TO		DATE
DELIVERED		

12/22/87

332/28

Cut D' - T.C. - N. side Elliot - E. of R.R. @ W. End Curb (See Bk 307 - Pg 10)

38.07 ✓
5.83
N.
TCD

35.99 ✓
7.91
Inv.
CD.

38.12 ✓
5.78
S.
TCD

39.59 ✓
4.31
@
R.R.

35.42 ✓
8.48
Inv.

37.38 ✓
6.52
Top
Struct
Opening

36.40 ✓
7.50
Inv.

37.51 ✓
6.39
Top
Struct.
Opening

37.45 ✓
6.45
N.
TCD

36.25 ✓
7.65
Inv.
CD

37.45 ✓
6.45
S.
TCD

Cut 20' - Loop Return

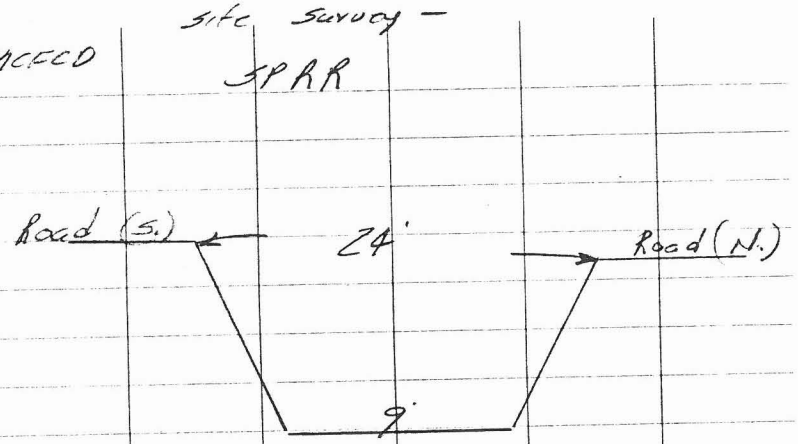
Site Survey —

MCFCD

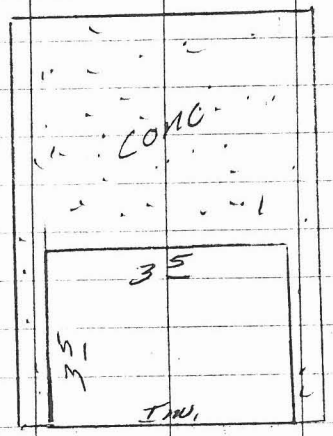
SPRR

12/22/87

838/30

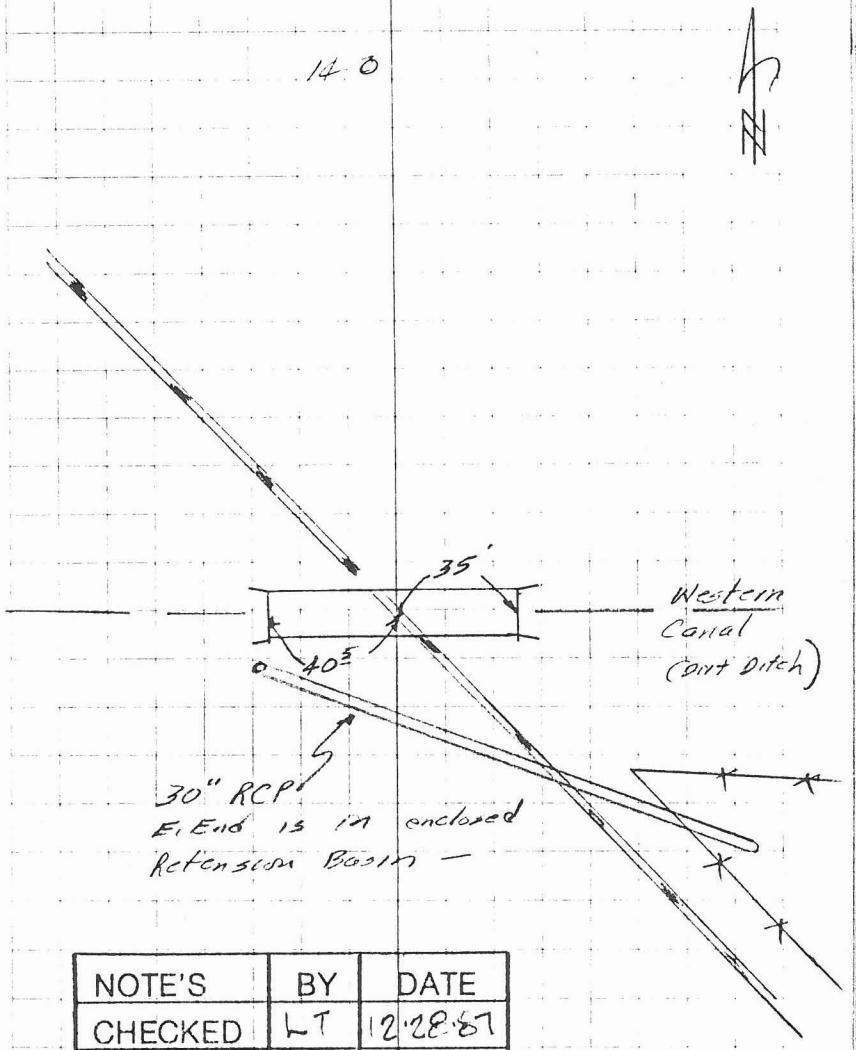


Typical X-Section
Western Canal



E. End Structure
under SPRR

Slopes down till it goes under water — W End Structure Not Visible



NOTE'S	BY	DATE
CHECKED	LT	12-28-87
COPIED		
	TO	DATE
DELIVERED		

MCFCD — Site Survey — SPRR (see Pg 30)

" TBM	1.15	32.86 ✓ T			1231.71
85' E. of R.R					
E. End Structure					
W. End Structure					
90' W. of R.R.					
W. End	36" RCP				
TBM			1.15	31.71 ✓	<31.71>

NOTE'S	BY	DATE
CHECKED	LT	12.28.87
COPIED	TO	DATE
		DELIVERED

12/22/87

32C/32

B.C. - E. Hdwl. — Western Canal Structure @ SPRR (see Bk. 324-Pg 74)

29.4 ✓	34.35 ✓	30.95 ✓
3.45 Top N. Bank	3.5 Inv. Dirt Canal	1.9 Top S. Bank
31.96 ✓	32.26 ✓	31.71 ✓
0.93 R.R.	10.60 Inv.	1.15 Hdwl.
	15.36 ✓	29.48 ✓
	17.50 Inv.	3.38 Hdwl.
28.0 ✓	20.15 ✓	29.35 ✓
4.35 Top N. Bank	12.7 Inv. Dirt Canal	3.5 Top S. Bank
	21.27 ✓	
	11.59 Inv.	

B.C. - Loop Return

MCFCO — Site Survey — SPRR

TBM RO-19	5.83	34.14 ✓		1228.31
TP #1	3.59	33.40 ✓	4.33	29.81 ✓

(Con't on Pg 38)

NOTE'S	BY	DATE
CHECKED	LT	12.28.87
COPIED		
	TO	DATE
DELIVERED		

1109 — 12/22/87 — 33C/34

CPS - ℄ Neely St. — 60'N of SPRR (See Bk 805 Pg 132)

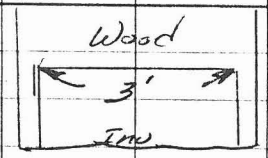
R.R. Spk N. side R.R. — 600± NW of Neely St.

MCFCD

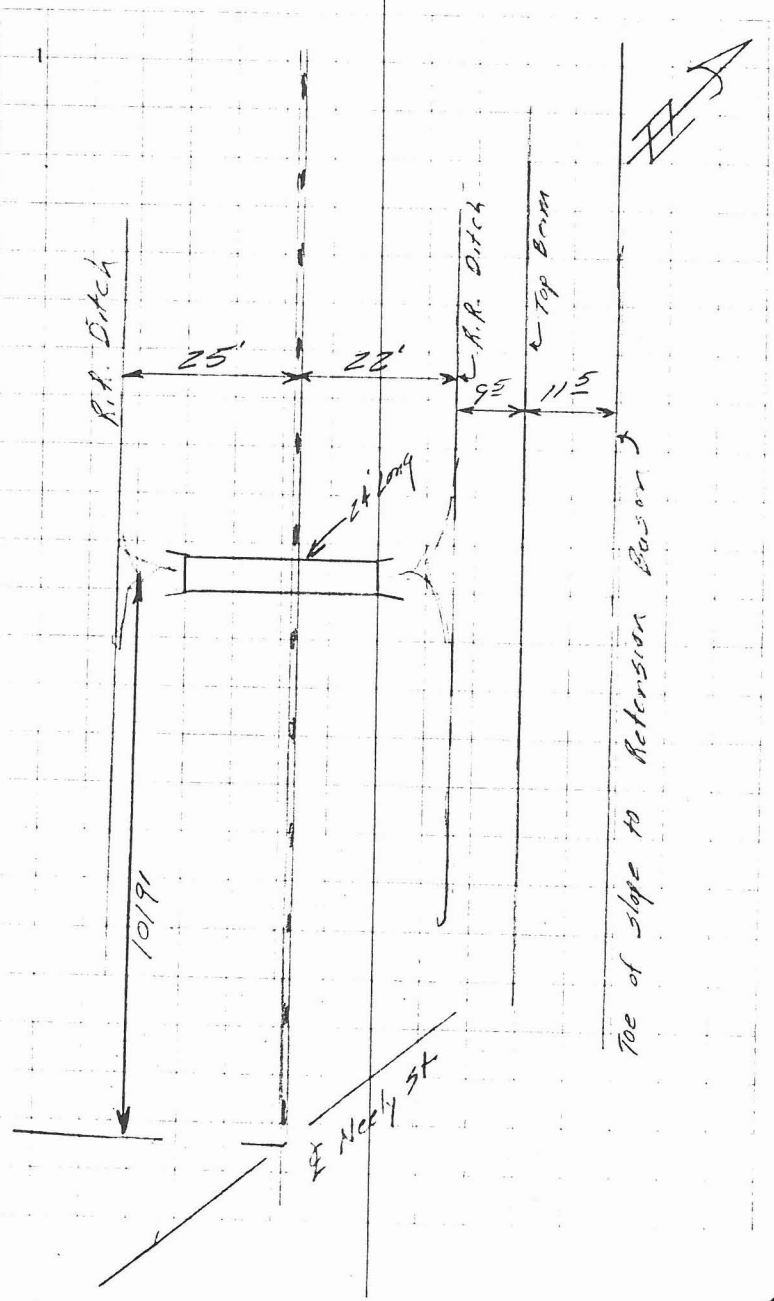
Site Survey
SP.R.R

12/27/87

632
34



Structure Under R.R



NOTE'S	BY	DATE
CHECKED	LT	12-28-87
COPIED		
	TO	DATE
DELIVERED		

MCFCD

Site Survey —
SP RR (See Pg 36)
1233.40 ✓

R.R. Ditch S. of R.R.

S. End Structure

N. End Structure

R.R. Ditch N. of R.R.

Berm - N. of R.R.

Retention Basin N. of R.R.

NOTE'S	BY	DATE
CHECKED	LT	12.28.87
COPIED		
DELIVERED		

TO DATE

12/22/87

832/38

(From Pg 34)

22.95 ✓
10.45
50 W

10.10 ✓
4.70
℄ R.R.

23.15 ✓
10.25
50 W

24.95 ✓
8.45
50 W

20.35 ✓
13.05
50 W

24.1 ✓
8.70
INV

24.25 ✓
9.15
INV.

14.6 ✓
8.8
50 E

25.65 ✓
7.75
Top Struct Opening

25.71 ✓
7.69
Top Struct. Opening

23.8 ✓
9.6
50 E

24.85 ✓
8.55
50 E

20.65 ✓
12.75
50 E

12/22/87

MCFCD Site Survey SPRR

		1233.40 ↑		
TP #2	3.05	31.42 ↑ ✓	5.03	28.37 ✓
TP #3	2.91	29.40 ↑ ✓	4.93	26.49 ✓

(Con't on Pg 44)

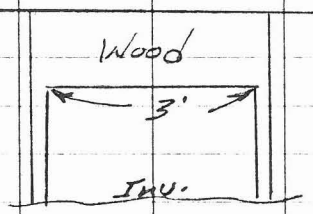
R.R. Spk - N. Side R.R. - 1200' NW of Neely St.

R.R. Spk - N. Side R.R. - 1300' NW of Neely St.

NOTE'S	BY	DATE
CHECKED	LT	12.28.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD

Site Survey – SPRR



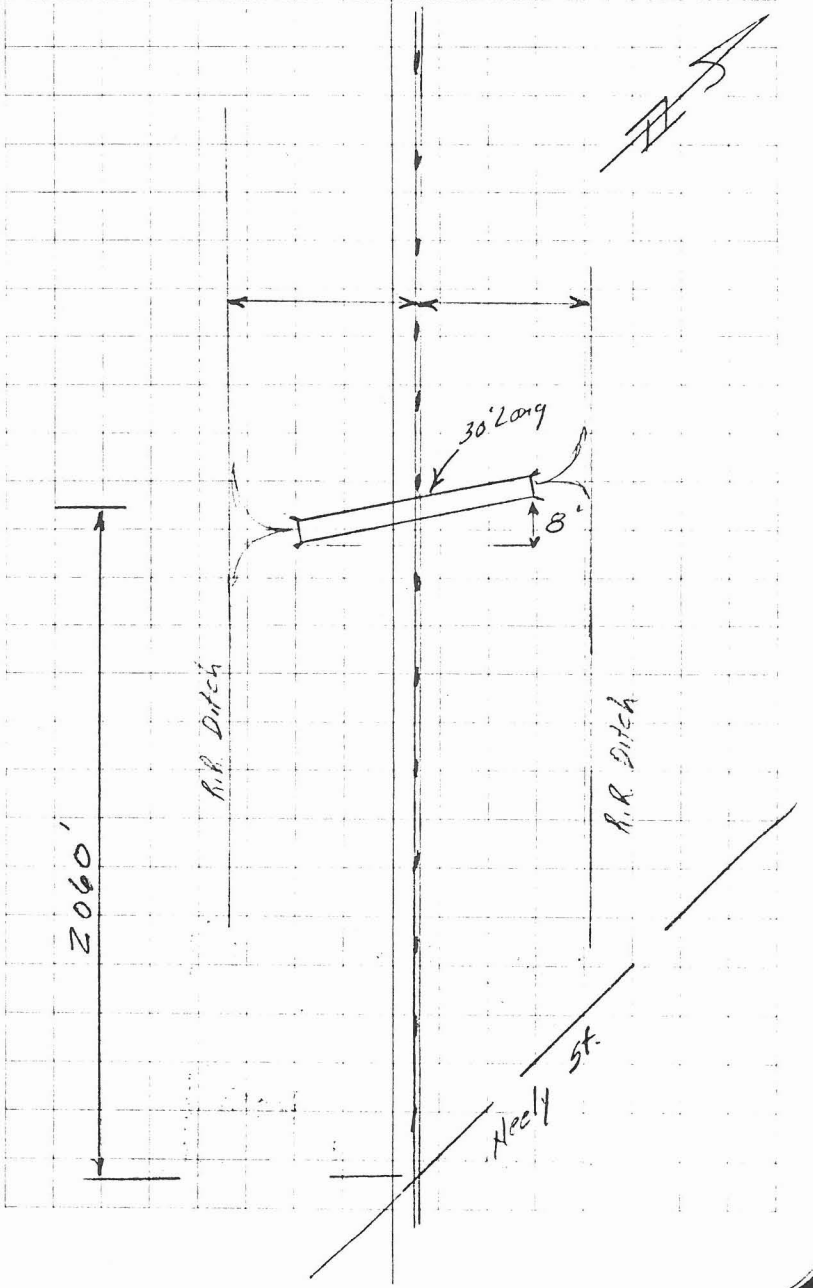
Structure Under SPRR

NOTE'S	BY	DATE
CHECKED	LT	12-28-87
COPIED		
	TO	DATE
DELIVERED		

L. Van Dyke
R. McMurray
T. Craven

12/23/87

832/42



Site Survey —

MCFCD		SPRR (See Pg 42)			
		1229.40 ✓			
		↑			
R.R. Ditch - S. of R.R.					
S. End Structure					
N. End Structure					
R.R. Ditch - N. of R.R.					
TP #4	3.26	28.33 ✓	4.33	25.07 ✓	
		↑			
TP #5	3.00	26.83 ✓	4.50	23.83 ✓	
		↑			
TBM #2-40			4.73	22.10 ✓	(22.13)

NOTE'S	BY	DATE
CHECKED	LT	12.28.87
COPIED	TO	DATE
DELIVERED		

12/23/97

332
44

(From Pg 40)

20.9 ✓	22.8 ✓	22.15 ✓
8.55	6.6	7.25
50W	Inv.	50E
25.60 ✓	22.25 ✓	23.38 ✓
3.80	7.15	6.02
&	Inv.	Top
RR.		Struct Opening
21.0 ✓		23.31 ✓
8.4		6.09
50W.		Top Struct Opening
		21.95 ✓
		7.45
		50E

R.R. Spk - N. side R.R. - 2400' NW of Neely St

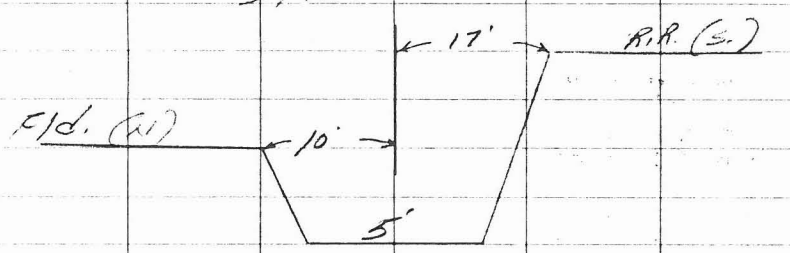
R.R. Spk - N. side R.R. - 790' SE of Cooper Rd

Cut'a - NW Cor. Hdwl. - N. side Driveway - E. side Cooper Rd. 150'± S. of R.R. (See Bk 332 - Pg 124)

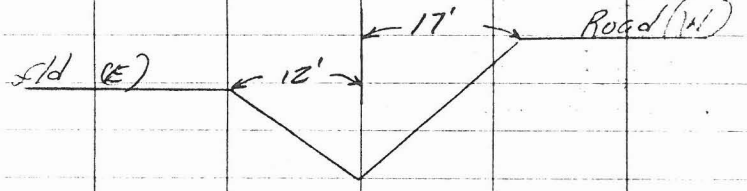
Site Survey -

1. MCFCD

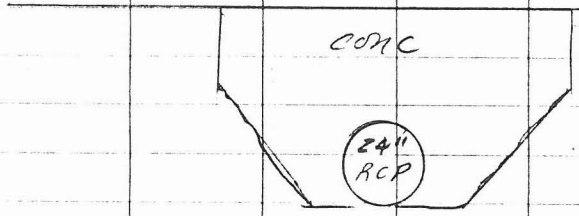
SPRR



R.R. Ditch N. of SPRR



Roadway Ditch S. of SPRR



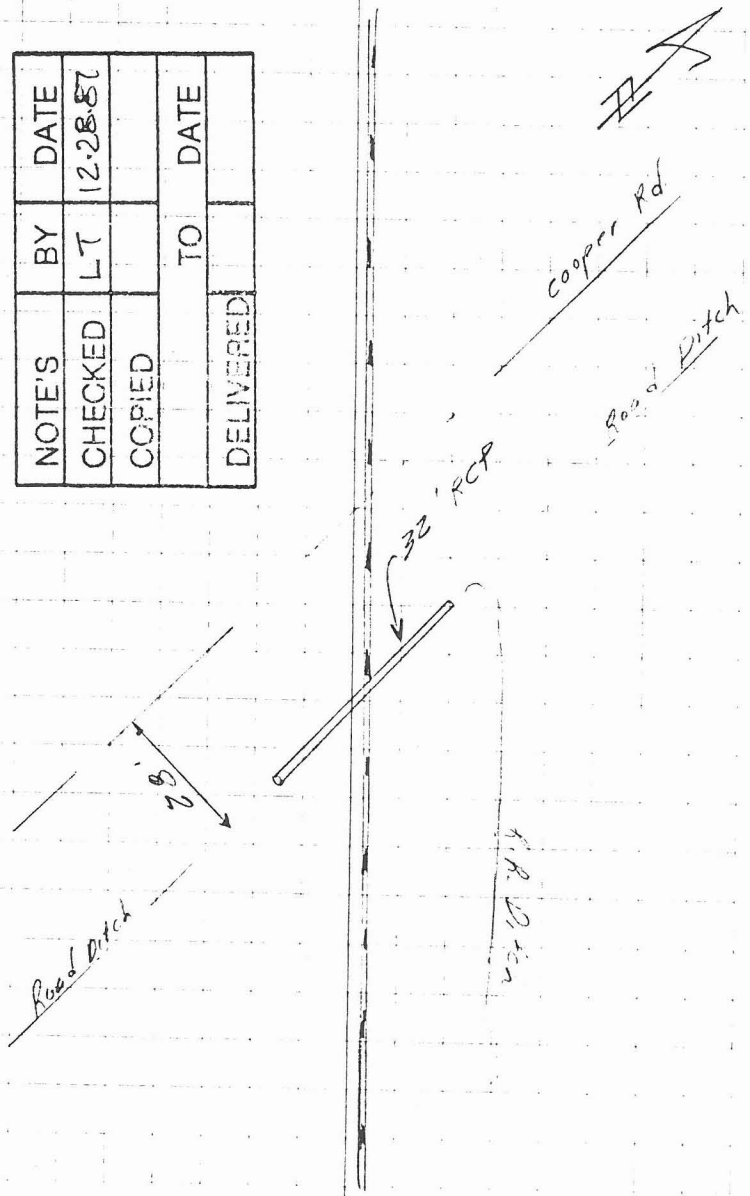
Structure under S.P.R.R

NOTE'S	BY	DATE
CHECKED	LT	12-28-87
COPIED		
DELIVERED		

TO DATE

1-/23/37

832/46



SPRR

Site Survey
SPRR (See Pg 46)

TBM 2-40	4.77	26.90 ✓		1222.13
50 S. of R.R				
S. End	24"	RCP		
N. End	24"	RCP		
N. Side	R.R. - 50' W.			
Rd Ditch - 100' N. of R.R.				
TBM 2-40			4.77	22.13 ✓ (22.13)

NOTE'S	BY	DATE
CHECKED	LT	12.18.87
COPIED		
TO		DATE
DELIVERED		

12/23/87

033/43

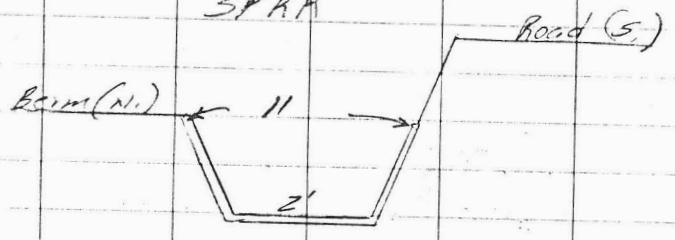
Cut 'D' - NW Cor. Hdwl. - N. Side Driveway - E. Side Cooper Rd - 150'± S. of R.R. (See Bk 353 - Pg 124)

21.2 ✓	19.6 ✓	21.65 ✓
5.7 Top E. Bank	7.25 Inv. Dirt Ditch	5.25 Top W. Bank
22.95 ✓	17.18 ✓	21.18 ✓
3.95 @ R.R.	9.72 Inv.	5.72 H dwl.
	17.19 ✓	21.23 ✓
	9.71 Inv.	5.67 H dwl.
19.15 ✓	17.8 ✓	22.95 ✓
7.15 Top N. Bank	9.1 Inv. Ditch	3.75 Top S. Bank
	18.95 ✓	
	7.95 Inv. Ditch	

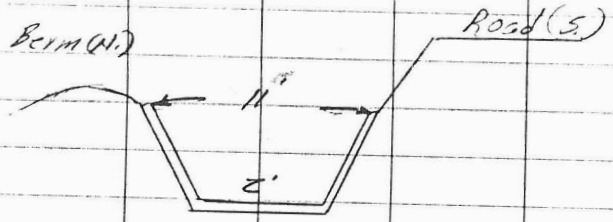
Cut Box - Loop Return

MCFCD

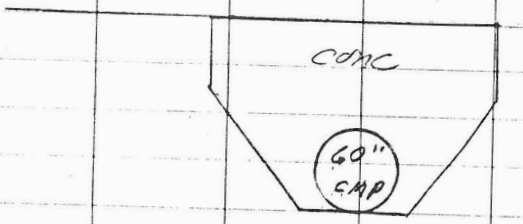
Site Survey — SPRR



conc ditch
E. of R.R.



conc ditch
W. of R.R.

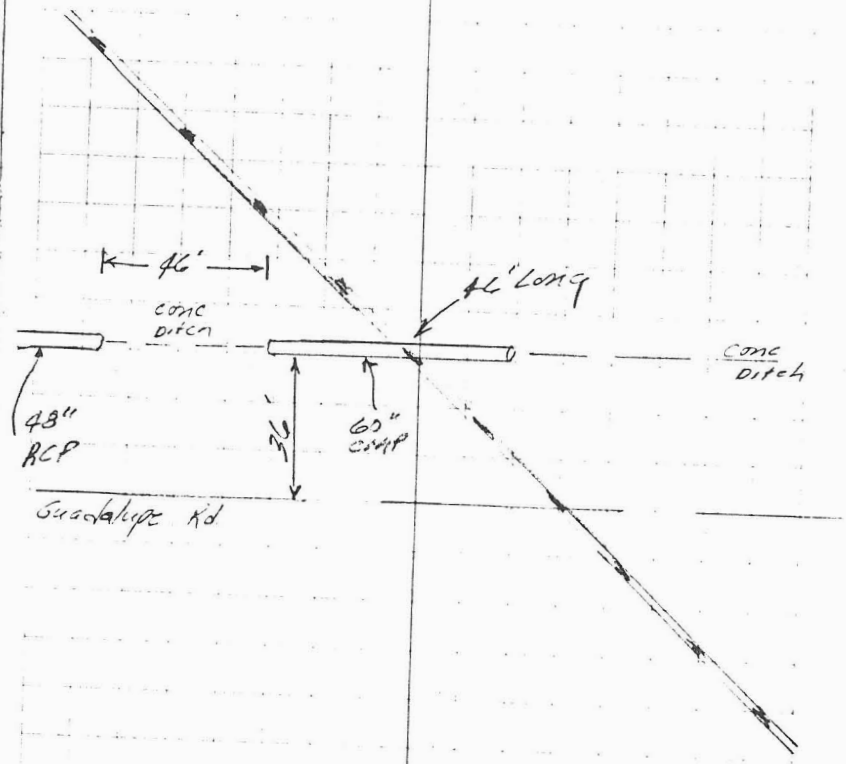


Structure Under SPRR

12/23/87

832/50

NOTE'S	BY	DATE
CHECKED	LT	12-28-87
COPIED		
	TO	DATE
DELIVERED		



MCFCD

Site Survey — SPRR — (see Pg. 50)

TBM 2-39	4.84	25.20		1220.36
TO E. of R.R.				
E End		RCP		
W End		RCP		
60' W of R.R.				
TBM 2-39			4.84	20.36 (20.36)

NOTE'S	BY	DATE
CHECKED	L-T	12.28.87
COPIED		

TO DATE

DELIVERED

12/23/87

932/52

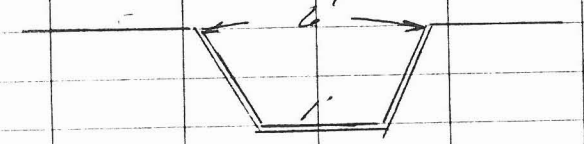
B.C. in R.H. — Int. Copper & Surcharge Rds. (see BK 302 - Pg 124)

19.75	18.99	15.35	19.04	17.85
5.75	6.21	9.85	6.16	7.35
8	N.	Inv.	S.	14
3-rim	TCD	C.D.	TCD	Top Bank
12.40		13.87	20.43	
2.30		11.33	4.77	
E		Inv.	H.W.L.	
R.R.				
		13.57	21.41	
		11.63	3.79	
		Inv.	H.W.L.	
21.3	18.60	15.16	18.63	20.55
3.90	6.40	10.04	6.57	4.65
10	N	Inv.	S	8
E-rim	TCD	C.D.	TCD	Top Bank

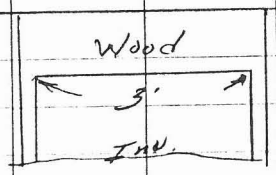
B.C - Loop Return

MCFCD

Site Survey
SPRR -



Typical X-Section
Conc. Ditch

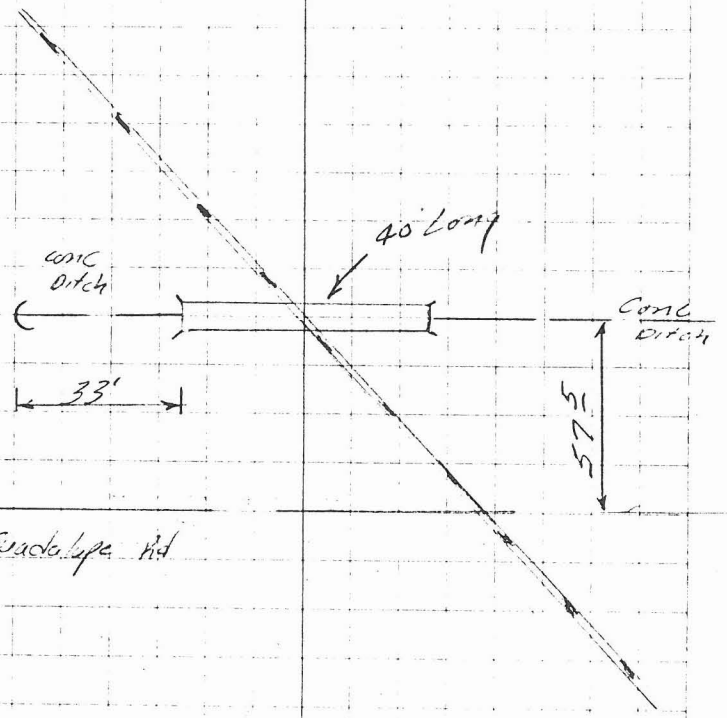


Structure Under
SPRR

NOTE'S	BY	DATE
CHECKED	LT	12.28.87
COPIED		
	TO	DATE
DELIVERED		

12/23/37

932
54



MCFCD

Site Survey

SP RR - (see Pg 54)

TBM 2-39	4.84	25.20 ✓		1220.36
50' E. of R/R				
E Edge Structure				
W Edge Structure				
50' W of R.R				
TBM 2-39			4.83	20.37 ✓ (20.36)

NOTE'S	BY	DATE
CHECKED	LT	12.18.87
COPIED		TO DATE
		DELIVERED

12/23/87

332/56

BC in H.H. - Int. Copper & Guadalupe Rds.
(see Bk 502 - Pg 124)

19.82 ✓	17.89 ✓	19.89 ✓		
5.38 N. TCD	7.31 Inv. C.O.	5.31 S. TCD		
22.30 ✓	17.98 ✓	19.42 ✓		
2.90 E R.R	7.22 Inv.	5.78 Top struct opening		
	17.85 ✓	19.25 ✓		
	7.35 Inv.	5.95 Top Struct opening		
19.72 ✓	17.43 ✓	19.76 ✓	21.2 ✓	
5.48 N. TCD	7.77 Inv.	5.44 S. TCD	4.0 7 B-rm	

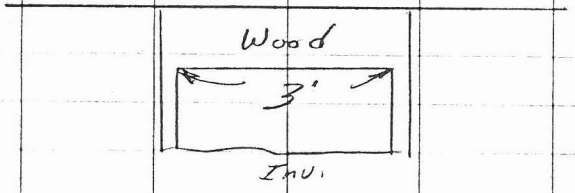
BC - Loop Return

MCFCD

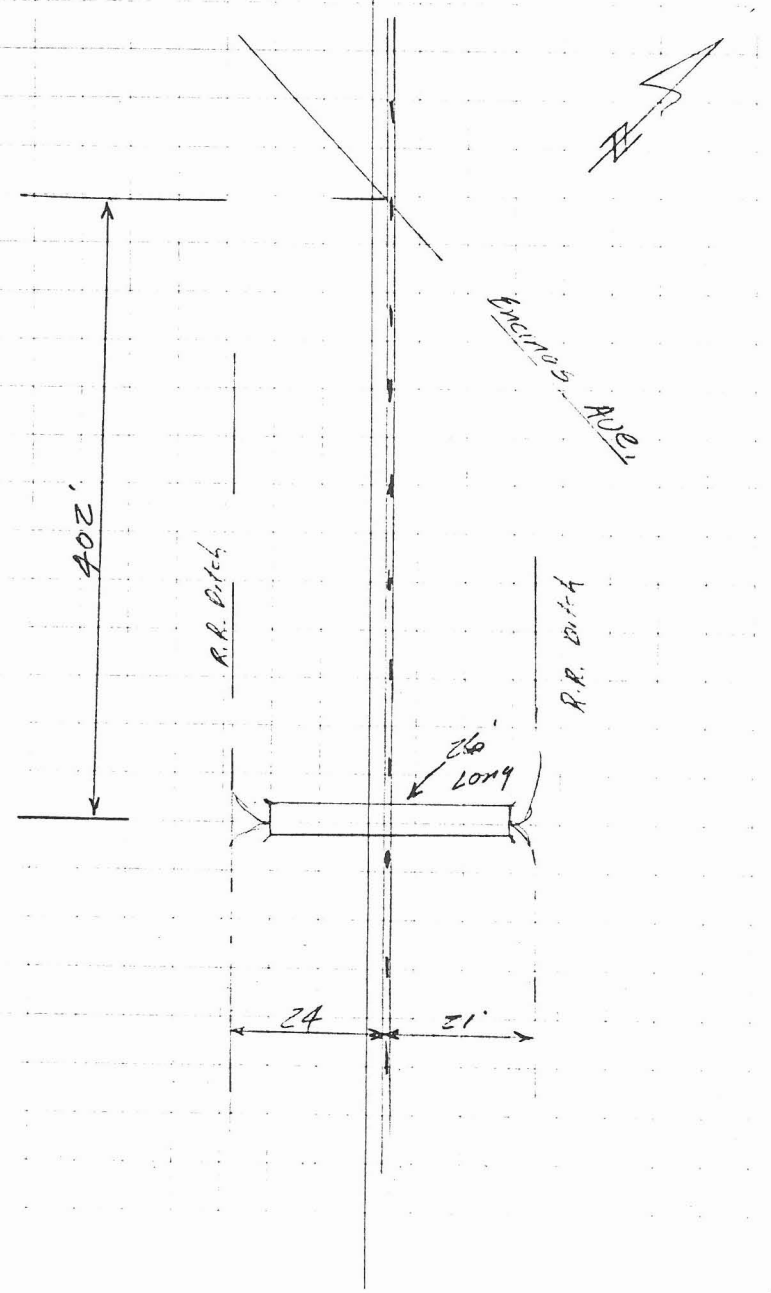
Site Survey — SPRR

12/23/87

832/58



Structure Under SPRR



NOTE'S	BY	DATE
CHECKED	LT	12-28-87
COPIED		
	TO	DATE
DELIVERED		

MCFCD # — Site Survey — SPRR (See Pg 58)

TBM RO-7	7.85	22.70 ✓		1214.85
		↑		
R.R. Ditch — S. of R.R.				
S. End Structure				
N. End Structure				
R.R. Ditch — N. of R.R.				
TP #1	4.02	23.40 ✓	3.32	19.38 ✓
		↑		

NOTE'S	BY	DATE
CHECKED	LT	12.28.87
COPIED		
DELIVERED		

TO DATE

(Con't on Page 64)

12/23/87

B.C. @ Int. Encinas Ave & Nevada St (See Bk 802 - Pg 120)

13.95 ✓
8.75
50' W

14.05 ✓
8.65
50 E

18.55 ✓
4.15
R.R.

14.7 ✓
8.00
Inv.

15.28 ✓
7.42
Top struct. opening

14.6 ✓
8.1
Inv

15.39 ✓
7.31
Top Struct Opening

13.75 ✓
8.95
50' W.

14.05 ✓
8.65
50 E.

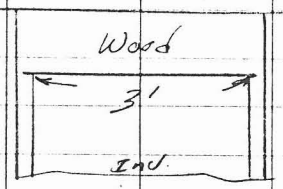
R.R. Spk. - S. side R.R. - 700' SE. of Encinas Ave

MCFCD

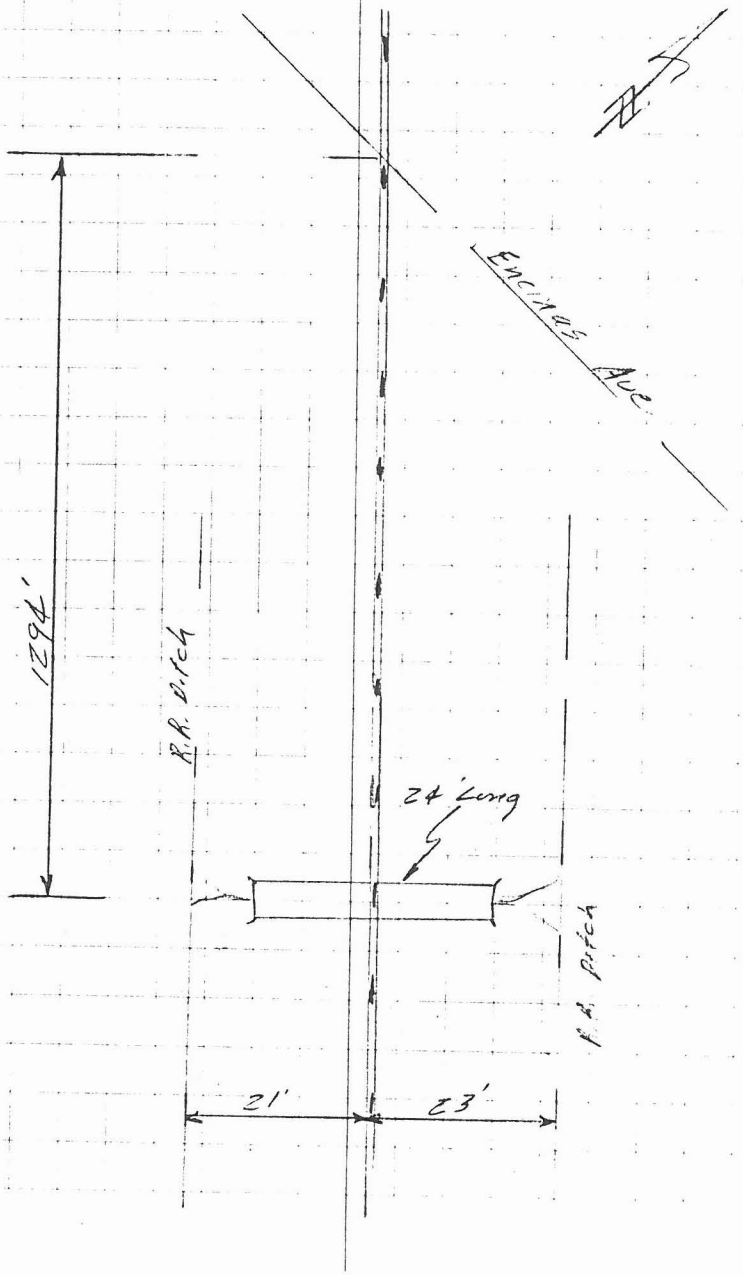
Site Survey —
SPRR

12/23/87

932
12



Structure Under
SPRR



NOTE'S	BY	DATE
CHECKED	LT	12.28.87
COPIED		
	TO	DATE
DELIVERED		

12/23/87

MCFCD Site survey — SPRR — (See Pg 62)

1223.40 ✓

(from Pg 60)

R.R. Ditch - S. of R.R.					
S. Edge Structure					
N. Edge Structure					
R.R. Ditch - N. of R.R.					
TP# 1	3.24	22.62 ✓	4.02	19.38 ✓	R.R Spk - Loop Return
TBM# RO-7			7.77	14.85 ✓	(14.85) B.C. - Loop Return

NOTE'S	BY	DATE
CHECKED	LT	12-28-87
COPIED		
TO		DATE
	DELIVERED	

14.35 ✓
7.05
50 W.

15.15 ✓
7.65
50 E

20.2 ✓
3.20
E
R.R

16.5 ✓
6.9
INV

17.92 ✓
5.48
Top Struct. opening

16.45 ✓
6.95
INV

17.93 ✓
5.47
Top Struct. opening

15.55 ✓
7.85
50 W.

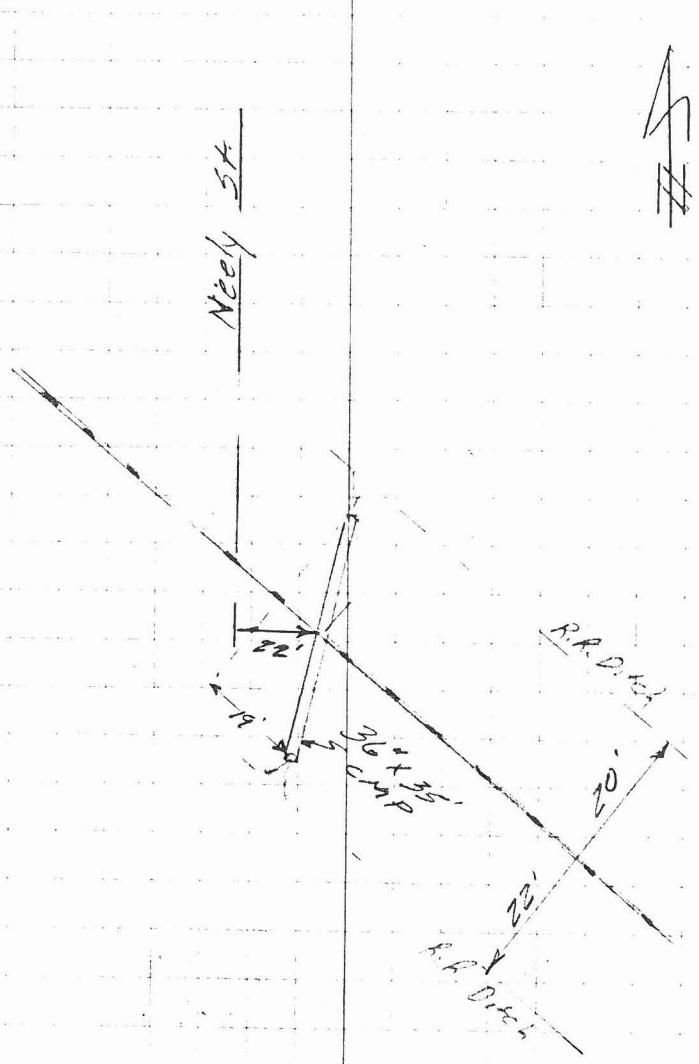
15.9 ✓
7.5
50 E

MCFCD

Site Survey – SPRR

12/23/87

8-52
66



NOTE'S	BY	DATE
CHECKED	LT	12-28-87
COPIED		
	TO	DATE
DELIVERED		

12/23/87

Site Survey – SRRR (See Pg 64)

MCFCD TBM RO-19	4.09	32.40 ✓		1228.31
R.R. Ditch – S. Side R.R				
30" CMP				
R.R. Ditch – N. Side R.R				
TBM RO-19		4.09	2831 ✓	(2831)

CPS – ℄ Neely St – 60' N of SRRR
(See BK 305 – Pg 132)

26.3 ✓		26.85 ✓
6.10		5.55
50 W		50 E
25.06 ✓	30.75 ✓	15.56 ✓
7.34	1.65	6.34
N. Inv	℄ R.R.	S. Inv
27.15 ✓		26.15 ✓
5.25		6.25
50 W		50 E

CPS – Loop Return

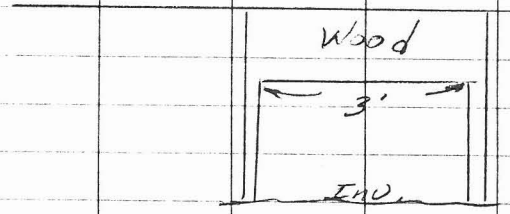
NOTE'S	BY	DATE
CHECKED	LT	12-28-87
COPIED		
	TO	DATE
DELIVERED		

MCFCD

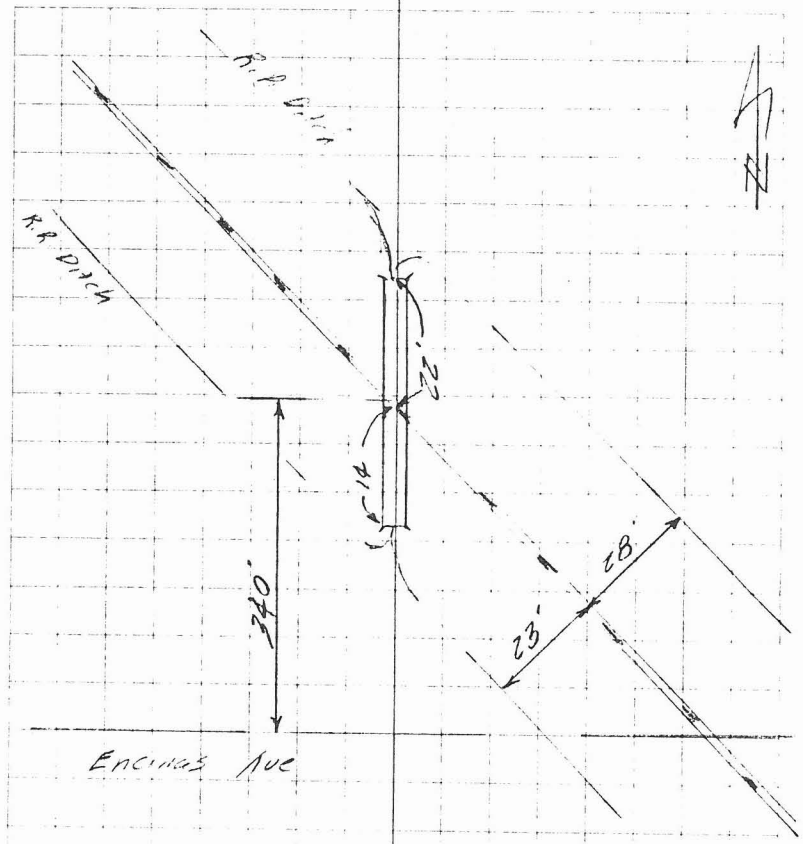
Site Survey — SPRR

12/23/87

332/70



Structure Under SPRR



NOTE'S	BY	DATE
CHECKED	LT	11-25-87
COPIED		
	TO	DATE
DELIVERED		

MCFCD

Site Survey — SPRR - (See Pg 70)

TBM 2-32	3.69	19.40 ✓		1215.71
R.R Ditch - S. Side R.R.				
S. End Structure				
N. End Structure				
R.R. Ditch - N. Side R.R.				
TBM		3.69	15.71 ✓	(15.71)

NOTE'S	BY	DATE
CHECKED	LT	12-28-87
COPIED		
TO		DATE
DE...		

13/23/37

332/72

½" R.B. - 8 N. of R.R. - 3300 E. of McQueen Rd (See B# 80 - Pg 120)

13.15 ✓
6.25
50 W

13.0 ✓
6.4
50 E

17.10 ✓
2.30
℄ R.R.

13.05 ✓
4.35
Inv.

14.85 ✓
4.55
Top Struct opening

12.85 ✓
6.55
Inv.

14.28
5.12
Top Structure opening ✓

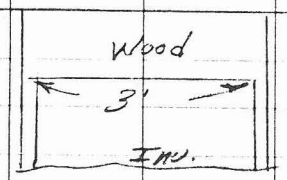
13.0 ✓
6.4
50 W

13.0 ✓
6.4
50 E

½" R.B. - Loop Return

MCFCD

Site Survey —
SPRR —



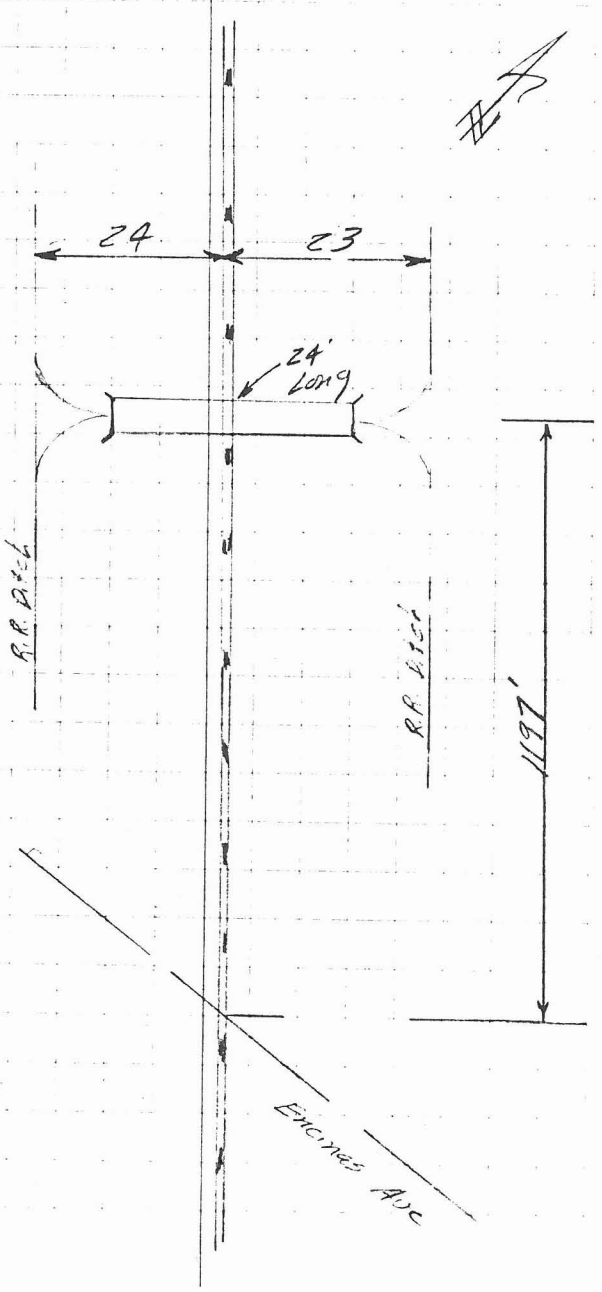
Structure Under
SPRR

NOTE'S	BY	DATE
CHECKED	LT	12-28-87
COPIED		
	TO	DATE
DELIVERED		

12/23/87

932
74

1197



MCFCD — Site Survey — SPRR (See Pg 74)

TBM Z-31	2.25	16.60 ↑		1214.35
R.R. Ditch – S. of R.R.				
S. End Structure				
N. End Structure				
R.R Ditch – N. Side of R.R.				
TBM		2.25	14.35 ✓	(14.35)

NOTE'S	CHECKED	COPIED	TO	DELIVERED
BY	LT			
DATE	12.28.87		DATE	

12/23/87

832/76

½" R.B. – 8' N. of R.R. – 2750 E. of McQueen Rd

11.95 ✓
4.65
50 W

15.35 ✓
1.25
@
R.R.

11.3 ✓
5.3
50 E

11.7 ✓
4.90
Inv.

11.55 ✓
5.05
Inv.

12.95 ✓
3.65
Top Struct opening

13.02 ✓
3.58
Top Struct. opening

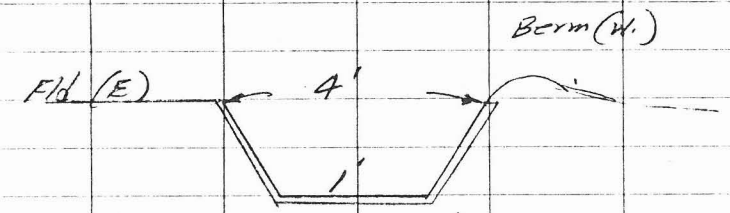
11.3 ✓
5.3
50 W

11.35 ✓
5.25
50 E

½" RB – Loop Return

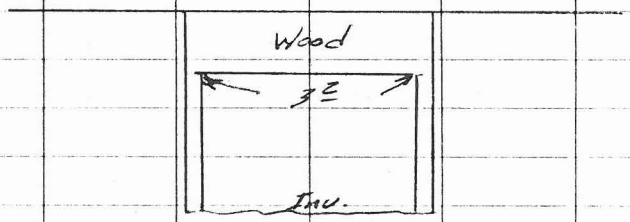
MCFCD

Site Survey — SPRR



Conc Ditch S. of R.R.

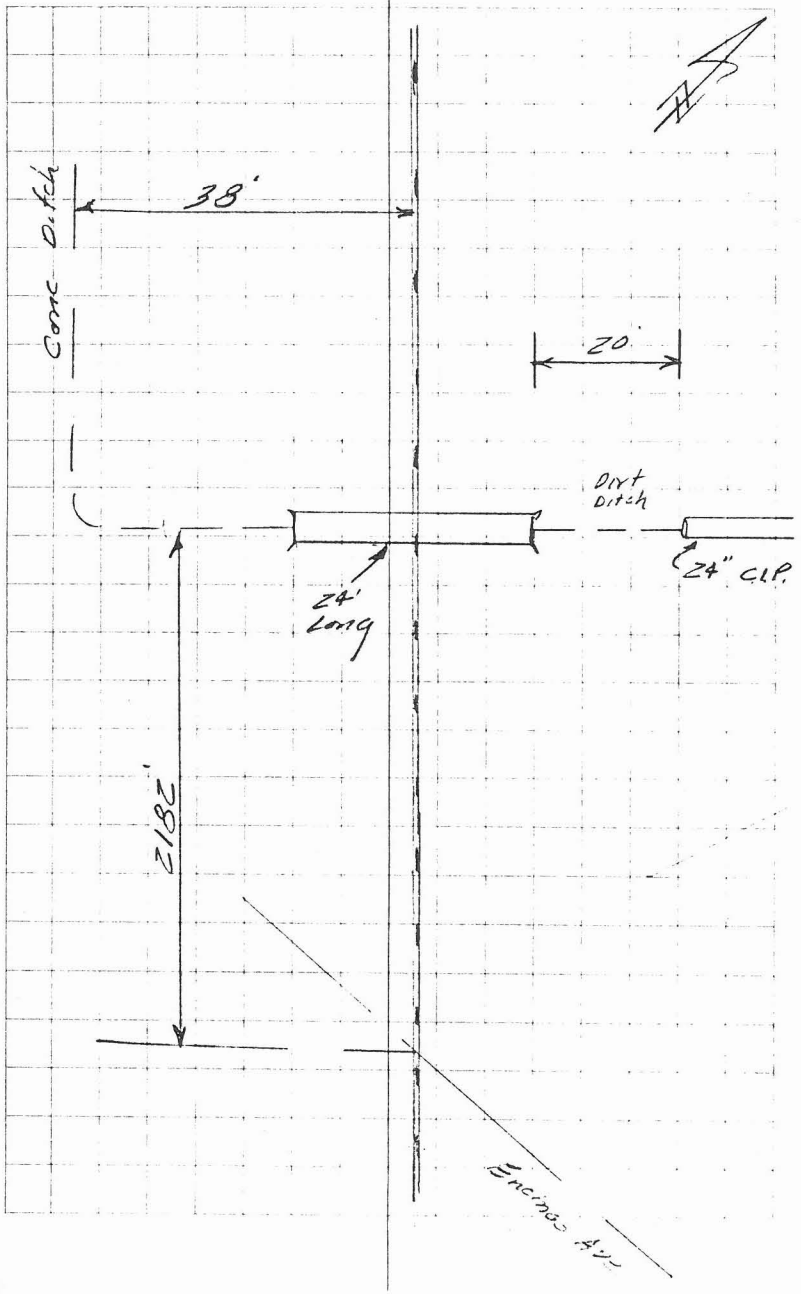
Dirt Ditch N. of R.R.



Structure Under SRRR

12/23/87

93C/78



MCFCD — Site Survey — SPRR (See Pg 78)

TBM* Z-29	3.56	16.50 ↑		12.12.94
35' S. of R.R.				
S. End Structure				
N. End Structure				
30' N. of R.R.				
TBM* Z-29			3.56	12.94 ✓ (12.94)

NOTE'S	BY	DATE
CHECKED	LT	12.28.87
COPIED		
TO		DATE
		DELIVERED

12/23/87

332/80

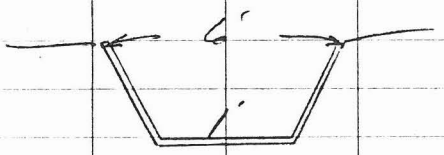
½" R.B. - S.W. of R.R. - 1650 E. of McQueen Rd (Ref. BK 332 - Pg 113)

12.2 ✓	11.60 ✓	10.18 ✓	11.68 ✓
4.3	4.90	6.32	4.32
3' Berm	W. TCD	Inv C.D.	E. TCD
14.35		10.37 ✓	12.01 ✓
2.15		6.13	4.49
E R.R.		Inv	Top Struct opening
		09.96 ✓	11.96 ✓
		6.54	4.54
		Inv	Top Struct opening
12.25 ✓		10.1 ✓	11.9 ✓
4.25		6.4	4.6
Top W. Bank		Inv Dirt Ditch	Top E. Bank

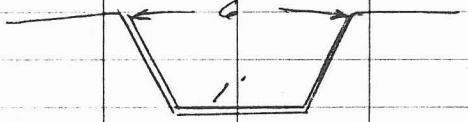
½" R.B. Loop Return

MCFCD

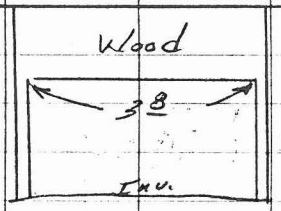
Site Survey - SPRR



conc ditch S. of R.R



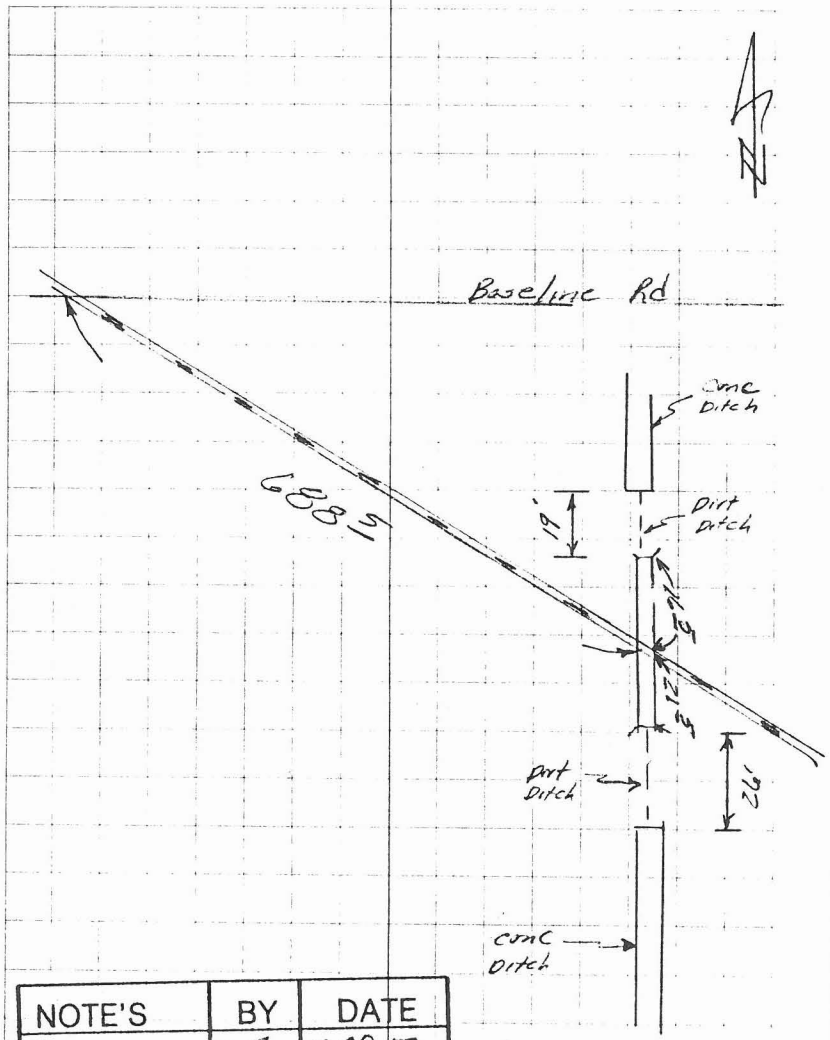
conc Ditch N. of R.R



structure Under SPRR

12/23/87

832
32



NOTE'S	BY	DATE
CHECKED	LT	12-28-87
COPIED		
	TO	DATE
DELIVERED		

MCFCD Site Survey — SPRR (see Pg 93)

TBM Z-10	3.21	16.80 ✓		1213.59
S. of R.R.				
S. End Structure				
N End Structure				
N. of R.R.				
TBM Z-10		3.21	13.59 ✓	<13.59>

NOTE'S	BY	DATE
CHECKED	LT	12.18.87
	TO	DATE
DELIVERED		

12/23/87

332/94

cut 'D' - SW. Cor. Conc. R.R. Signal Base - E. Side R.R. - N. side Base ... Ad - (see St 303 - Pg 101)

10.65 ✓
6.15
W.
TCD

08.70 ✓
8.10
Inv.

10.87 ✓
5.93
E.
TCD

13.35 ✓
3.45
E
R.R.

09.30 ✓
7.50
Inv.

10.50 ✓
6.30
Top Struct
Opening

08.44 ✓
8.36
Inv

10.53 ✓
6.27
Top Struct
Opening

10.79 ✓
6.01
W.
TCD

08.68 ✓
8.12
Inv.

11.01 ✓
5.79
E
TCD

cut 'D' - Loop Return

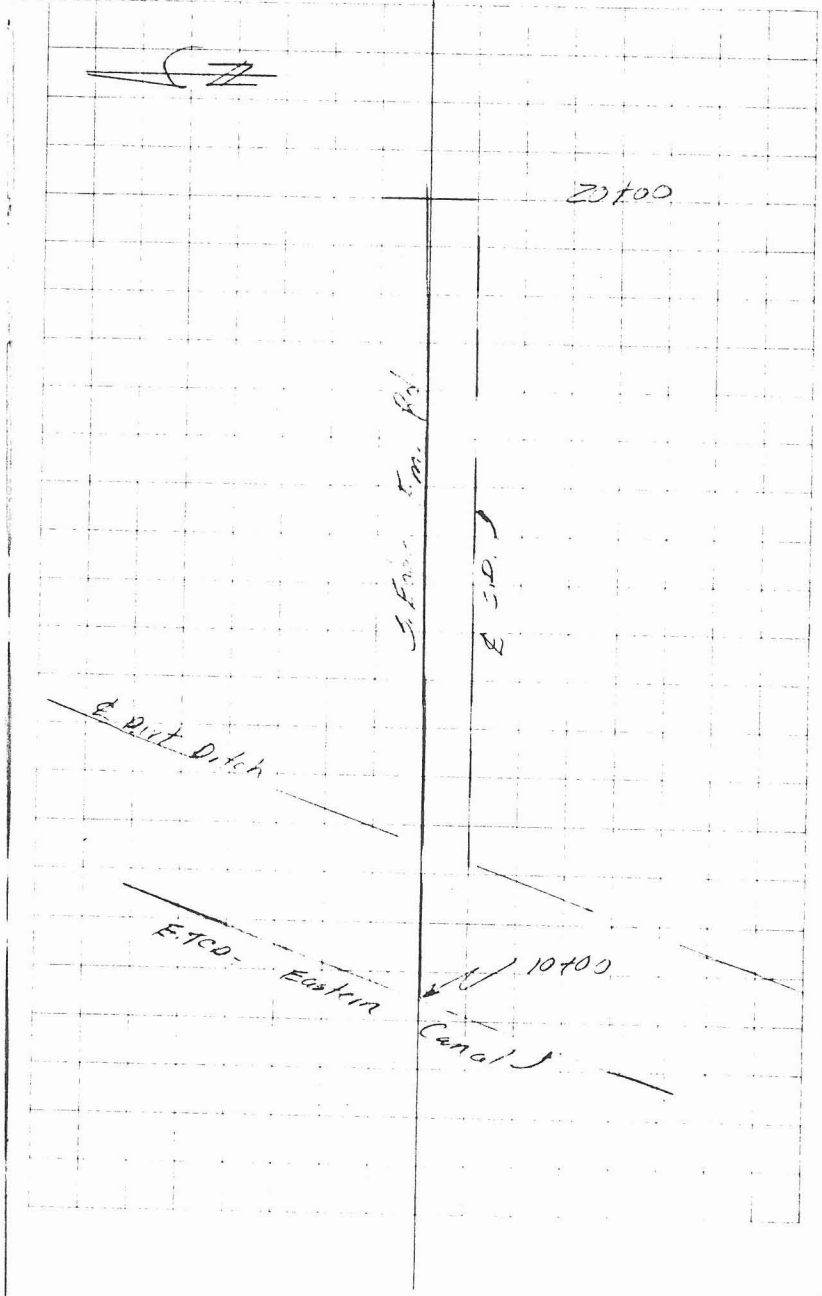
MCFCD

Profile - Farm Rd - 5 - Easy Rd E E. of E. Canal

Lichon Dyke
R. McMorrow
M. McBride

6/13/33

932/86



NOTE'S	BY	DATE
CHECKED	LT	6·16·88
COPIED		
	TO	DATE
DELIVERED		

6/13/83

MCFCD	Profile - Farm Rd - S. of Bay Rd & E. of E. Canal			
TBM 5-20	3.19	71.80 ✓		1263.61
10+00			4.15	67.65 ✓
10+03.5			2.45	69.35 ✓
10+24.5			2.55	69.25 ✓
10+56			4.90	66.90 ✓
10+61			9.85	61.95 ✓
10+71			9.85	61.95 ✓
10+76			3.85	67.95 ✓
10+92.5			4.10	67.70 ✓
11+00				
11+50				

CPS - P. Plk (Sec Bk 307 Pg 152)

E TCD - Eastern Canal

W. Edge Rd

E. Edge Rd

W. Top of Bank

Inv. Dirt Ditch

E. Top of Bank & W. Edge of Rd

E. Edge of Rd

67.70 ✓
4.2
S.
EOR

67.95 ✓
3.85
Berm

66.66 ✓
5.14
N.
TCD

66.25 ✓
5.55
S.
EOR

67.1 ✓
4.7
Berm

66.71 ✓
5.09
N.
TCD

MCFCD		Profile - Farm Rd - Ray Rd - 1271.80	E. of	S. of E Canal
12+00				
13+00				
TP #1	5.58	72.40 ✓	4.98	66.82 ✓
14+00				
15+00				
16+00				
17+00				

6/13/33

832
90

66.15 ✓
5.65
S.
EOR

67.15 ✓
4.65
Berm

66.66 ✓
5.14
N.
TCD

66.4 ✓
5.4
S.
EOR

67.4 ✓
4.4
Berm

66.81 ✓
4.99
N.
TCD

N. TCD - 13+00

66.5 ✓
5.9
S.
EOR

67.5 ✓
4.9
Berm

66.90 ✓
5.50
N.
TCD

66.75 ✓
5.65
S.
EOR

67.7 ✓
4.7
Berm

67.05 ✓
5.35
N.
TCD

66.9 ✓
5.5
S.
EOR

67.7 ✓
4.7
Berm

67.12 ✓
5.28
N.
TCD

67.0 ✓
5.4
S.
EOR

67.8 ✓
4.6
Berm

67.20 ✓
5.20
N.
TCD

MCFCD

Profile - Farm Rd - S. of Ray Rd - E. of Eastern Canal

122.40

18+00				
19+00				
20+00				
TP #1	6.05	72.37	5.58	66.82
TBM 5.20			4.25	68.62 (63.41)

6/13/89

832/92

67.35 5.05 S. EOR

68.15 4.25 Berm

67.35 5.05 N. TCD

67.75 4.65 S. EOR

68.55 3.85 Berm

67.50 4.9 N. TCD

67.90 4.5 S. EOR

68.55 3.85 Berm

67.55 4.85 N TCD

N. TCD - Loop Return

CPS. to Pole - Loop Return

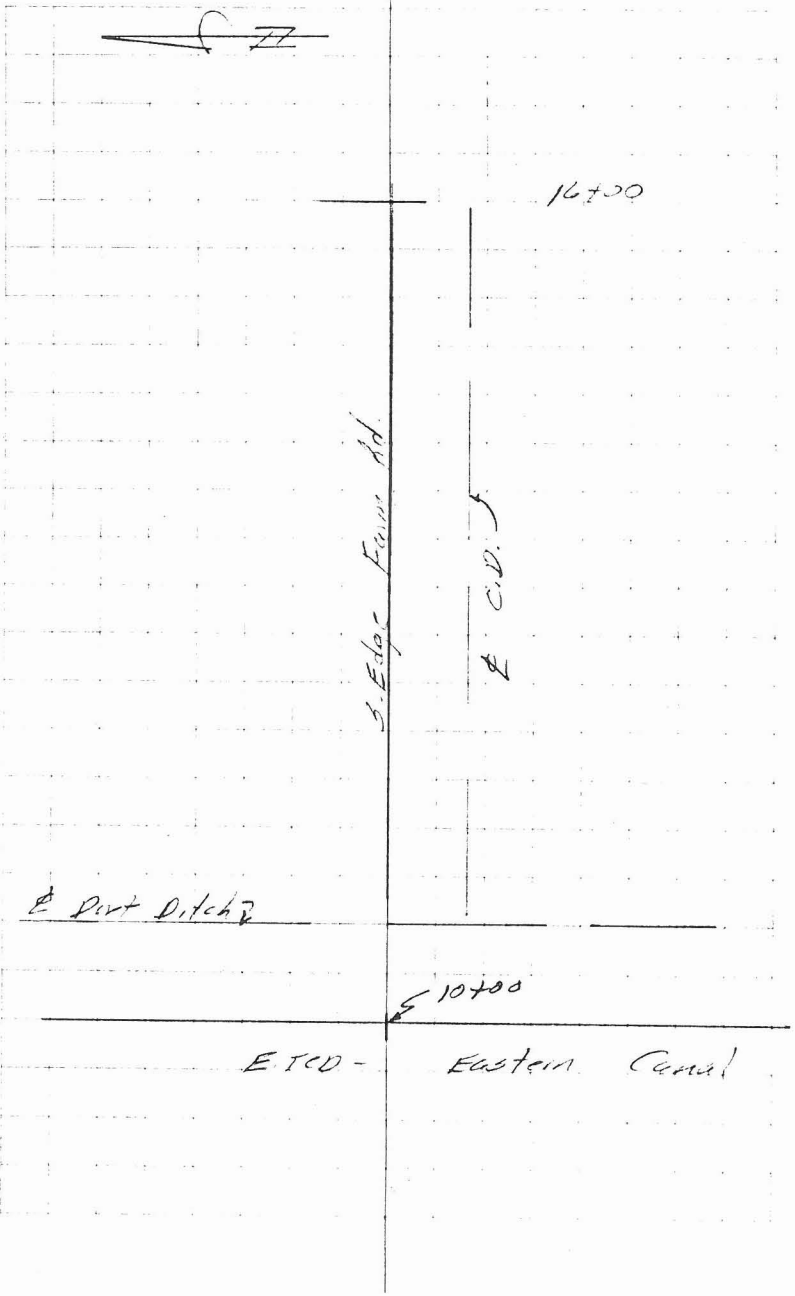
NOTE'S	BY	DATE
CHECKED	LT	6.16.88
COPIED		
	TO	DATE
DELIVERED		

MCFCD

Profile – Farm Rd – S. of Guadalupe – E. of E. Canal

6/13/83

832/74



MCFCD	Profile - Farm Rd - Guadalupe Rd — E. of E. Canal			
TBM #HC-14	4.81	81.68 ✓ ↑		1276.37
TP #1	6.37	82.20 ✓ ↑	5.65	76.03 ✓
10+00			5.16	77.20 ✓
10+03.5			4.3	78.1 ✓
10+27.5			5.2	77.2 ✓
10+34			6.1	76.3 ✓
10+53.5			5.1	76.7 ✓
10+61			10.3	71.6 ✓
10+70			5.25	77.15 ✓
11+00				

6/13/83

536/96

CB Set Radius = 164 ft 37 (84-805 Pg 94)

B.C. Jt. Complete @ 164 ft

E.T.C.O. - Eastern Canal

W. Edge of Rd.

E. Edge of Rd

Grade Break

W. Top of Bank

E. Out Ditch

E. Top of Bank

77.25 ✓
5.15
5.
EOR

77.65 ✓
4.75
B-TM

MCFCD

Rofic - Farm Rd - S. of Guadalupe Rd - E of F Canal

6/13/88

832/93

		1282.40 ↑			
12+00					
13+00					
14+00					
15+00					
16+00					
TP #1	5.51	31.55 ↑ ✓	6.36	76.04 ✓	BM - Loop Bottom
TBM #C-16			4.69	76.86 ✓	(76.87) CBS - Loop Bottom

NOTE'S	BY	DATE
CHECKED	LT	6.16.88
COPIED		
	TO	DATE
DELIVERED		

11.5 ✓
4.9
S
EOR

11.65 ✓
4.75
Berm

11.6 ✓
4.8
S
EOR

11.85 ✓
4.55
Berm

11.7 ✓
4.7
S
EOR

11.9 ✓
4.5
Berm

11.6 ✓
4.8
S
EOR

11.7 ✓
4.7
Berm

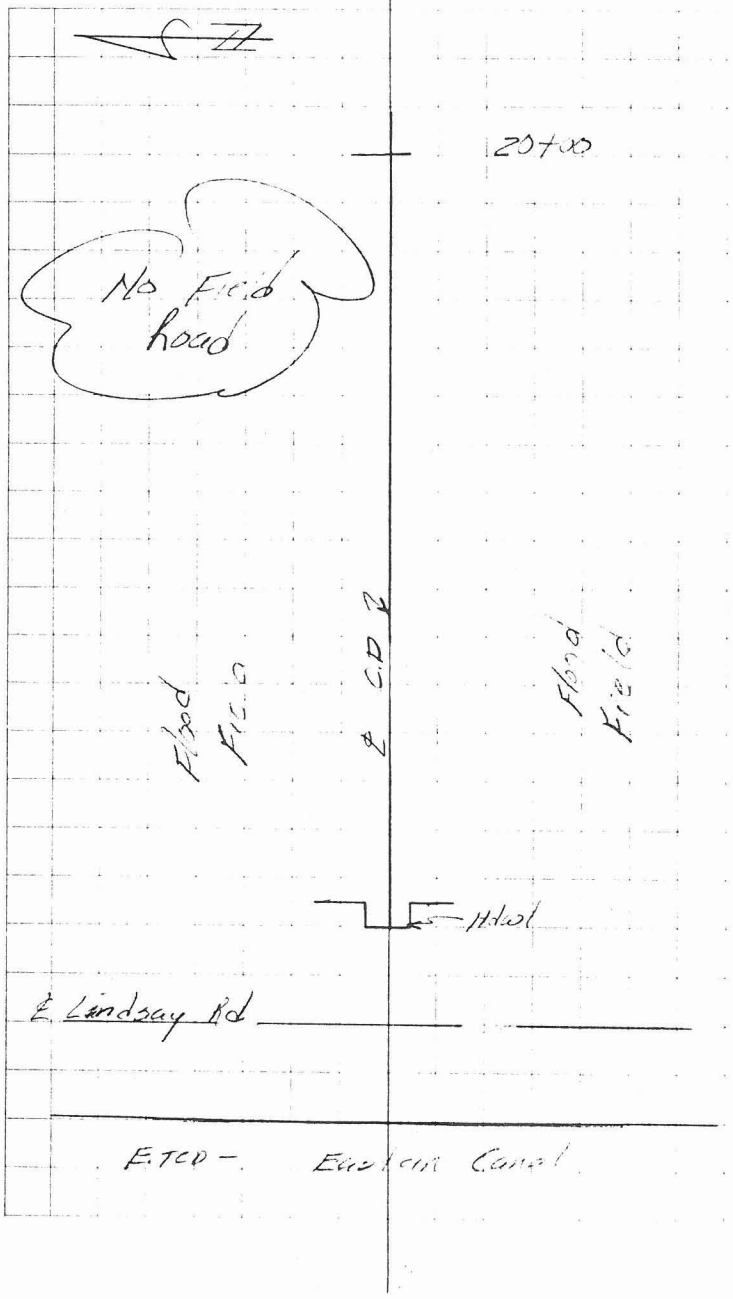
11.8 ✓
4.6
S
EOR

11.85 ✓
4.55
Berm

MCFCD | Profile – S. of Pecos Rd – E. of E Canal

5/13/53

-22
/50



6/23/99

382/702

Profile – S. of Pecos – E. of E. Canal

MCFCD				
TBM* S-44	5.92	69.91 ✓		1263.99
10+00			4.75	65.16 ✓
10+02			4.5	65.4 ✓
10+06			4.95	64.95 ✓
10+36.5			5.85	64.05 ✓
10+61.5	Hdwl – Beg. Conc Ditch			
11+00				
12+00				

Ck. P.I.'s E side Eastern Canal (3+912 to 14)

E. TCD – Eastern Canal

Top of Bank

W Edge Lindsay Rd.

Grade Brk (Swale)

66.36 ✓
3.65
Hdwl.

65.76 ✓
4.15
N
TCD

65.75 ✓
4.15
Ground

64.3 ✓
5.6
Field

65.35 ✓
4.55
Berm

65.81 ✓
4.10
N
TCD

64.15 ✓
5.15
Field

65.1 ✓
4.2
Berm

65.86 ✓
4.05
N
TCD

MCFCO	Profile - F. of E. Canal	S. of	P-COS -
	1269.91		
13+00			
79#1	4.16	70.20 / 3.87	66.04
14+00			
15+00			
16+00			
17+00			

6/13/32

332/104

64.75
5.15
Field

65.65
4.05
Beam

66.04
3.37
N.
TCO

OP2 - N. TCO - 13+00

64.55
5.7
Field

66.15
4.1
Beam

66.10
4.10
N.
TCO

64.95
5.25
Field

66.1
4.1
Beam

66.25
3.95
N.
TCO

64.6
5.6
Field

66.55
3.95
Beam

66.30
3.90
N.
TCO

65.25
4.95
Field

66.45
3.75
Beam

66.45
3.75
N.
TCO

MCFCD

Pinal Co. S. of Perus
E. of E. Canal

R70.20
T

18+00

19+00

20+00

TP #1 4.17 70.21 4.16 66.04

TBM #5-44 6.22 63.99 (63.99)

6/13/88

932
10c

65.8
4.4
Field

66.55
3.65
Berm

66.55
3.65
N.
TCO

65.4
4.8
Field

66.6
3.6
Berm

66.70
3.50
N.
TCO

66.1
4.1
Field

66.6
3.6
Berm

66.65
3.55
N
TCO

GPS Loop Return

GPS - Loop Return

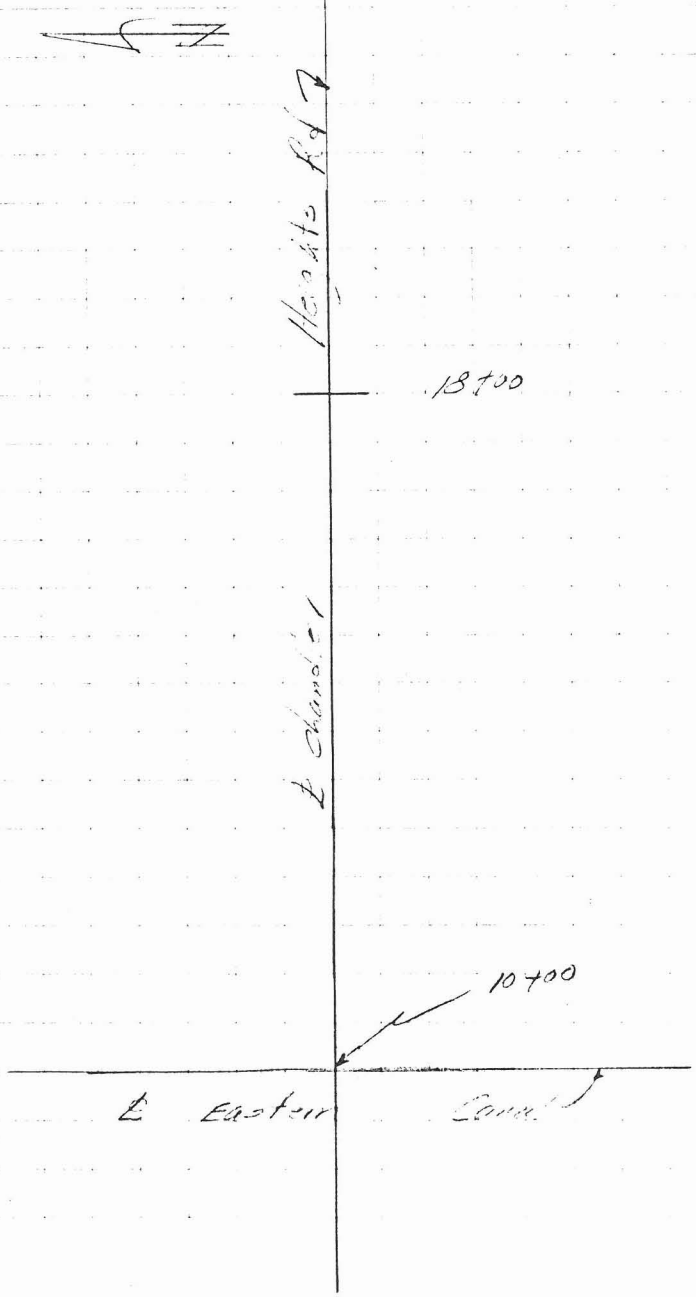
NOTE'S	BY	DATE
CHECKED	LT	6.16.88
COPIED		
	TO	DATE
DELIVERED		

MCFCD

Profile – Chandler Heights Rd – @ Eastern Canal

6/13/83

S.32
T.3S



1 MCFCD — Profile — Chandler Heights Rd — Eastern Canal

6/23/83

832/110

TBM RS-46	4.10	57.95 ✓ T		1253.85
8+00			4.93	52.97 ✓
9+00			4.59	53.36 ✓
10+00			4.12	53.83 ✓
11+00			3.92	54.01 ✓
12+00			3.74	54.21 ✓
13+00			3.50	54.45 ✓
14+00			3.28	54.67 ✓
T.P. #1	5.19	59.50 ✓ T	3.64	54.31 ✓
15+00			4.56	54.94 ✓
16+00			4.33	55.17 ✓

OPS - Int. Chandler Hgts. Rd & Eastern Canal (BK 817 Pg 130)

℄ C.H. Rd.

"

Int. C.H. Rd & E. Canal

℄ C.H. Rd.

"

"

"

OPS - N. Edge [illegible] Hgts. Rd.

℄ C.H. Rd.

"

MCFCD	Profile - @	Chandler Hts Rd Eastern Canal		
	1259.50 T			
17+00		4.07	55.43 ✓	
18+00		3.77	55.73 ✓	
TB#3-47		3.81	55.69 (55.61)	

6/13/88

ASC 112

2 Cut Pts

"

CRS - Profile - S. Side Chandler Hts Rd (Bk 217 Pg 130)

NOTE'S	BY	DATE
CHECKED	LT	6.16.88
COPIED		
	TO	DATE
DELIVERED		

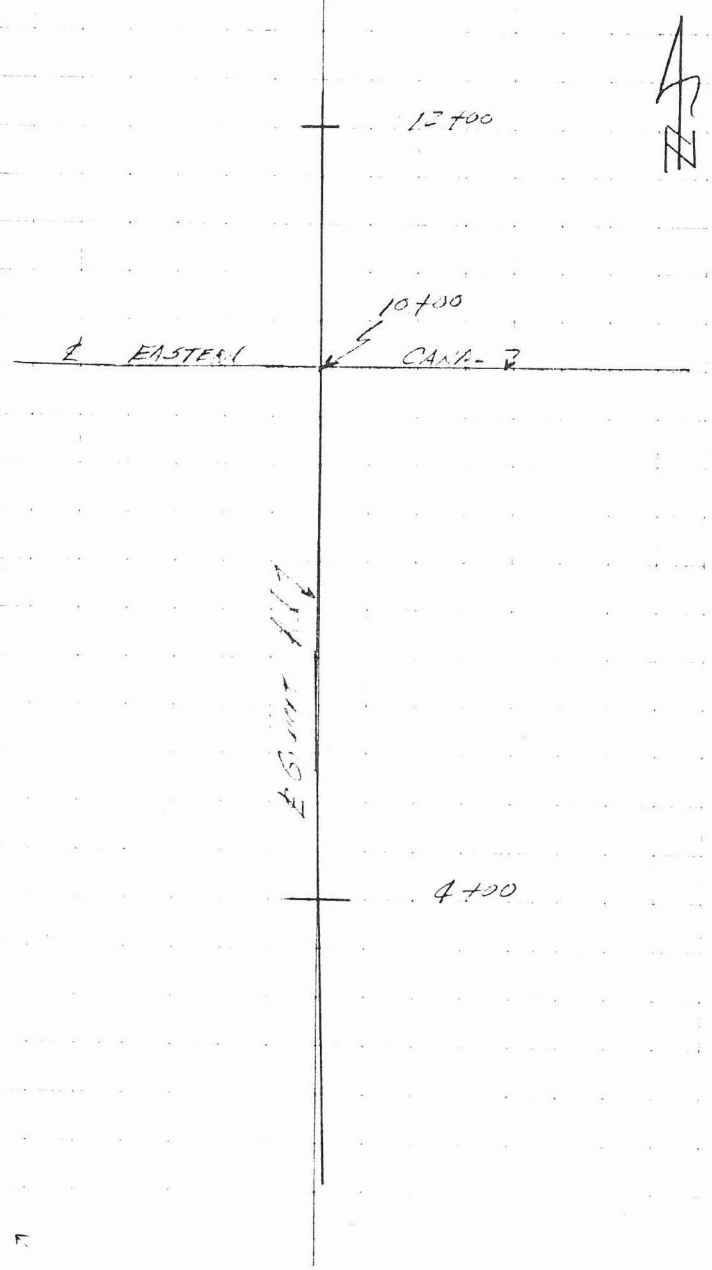
MCECD

Profile - Gilbert Rd ⓒ
Eastern Canal

L. Dodson Sight
R. McMahon
M. Middleton

6/12/85

83C
TP



MCE-0	Profile — Eastern Canal		Glen — Ka @ Eastern Canal		
TBM UC-29	5.35	62.40 ✓			1257.05
12+00			5.95	56.45 ✓	
11+00			5.56	56.84 ✓	
10+00			5.33	57.07 ✓	
9+00			4.97	57.43 ✓	
8+00			4.69	57.71 ✓	
TP #1	5.73	63.00 ✓	5.13	57.27 ✓	
7+00			5.02	57.98 ✓	
6+00			5.09	57.91 ✓	
5+00			4.87	58.13 ✓	
4+50			5.05	57.95 ✓	
TBM 2-12			3.92	59.08 ✓	(57.53)

6/14/33

332
116

CRS - E Side of @ Eastern Canal
(Bk 317 Pg 100)

CRS - W Edge of Rd - 8+00

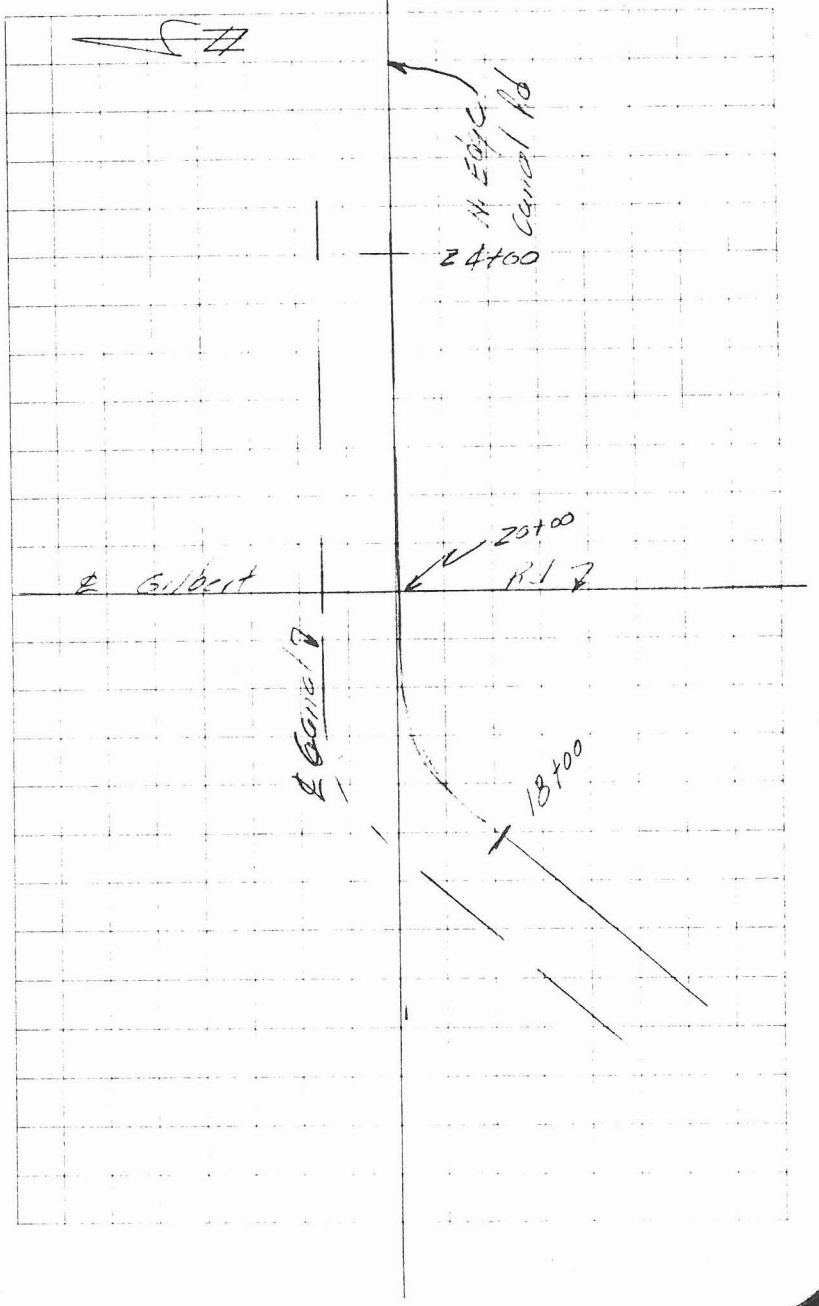
NOTE'S	BY	DATE
CHECKED	LT	6.16.88
COPIED		
	TO	DATE
DELIVERED		

CRS - P.I. - E ... Side ... for (Bk 317 Pg 120)

MCFCD

Profile – Eastern Canal Rd – Canal

6/4/23



MCFCD — Profile — Eastern Canal

6/1/83 — 832/120

TBM #VC-28	5.35	62.40 ↓ ↑		1257.05
18+00			5.95	56.45 ↓
19+00			5.8	56.6 ↓
19+60			5.65	56.75 ↓
19+69			6.25	56.15 ↓
19+86.5			5.70	56.70 ↓
20+00			5.29	57.11 ↓
20+13.5			5.48	56.92 ↓
20+33.5			5.45	56.95 ↓
21+00			5.15	57.25 ↓
22+00			4.95	57.45 ↓

CMS- & Gilbert Rd — E. Canal (BK 317 Pg 100)

Grade Break

Grade Break

W. Edge of Asphalt

& Gilbert Rd

E. Edge Asph.

Grade Break

MCFCD

Rosie - Canal Rd @ E. Canal

6/13/88

332/123

		1062.40 ↑			
23+00			4.7	57.7 ✓	
24+00			4.85	57.55 ✓	
TP #1	5.23	63.00 ↑	5.13	57.27	
TBM #8-12			3.92	59.08 ✓	(59.08)

OPS - W. Edge [illegible] Rd. -

OPS - R Rd - E Side Gilbert Rd (BK BM 5 (10))

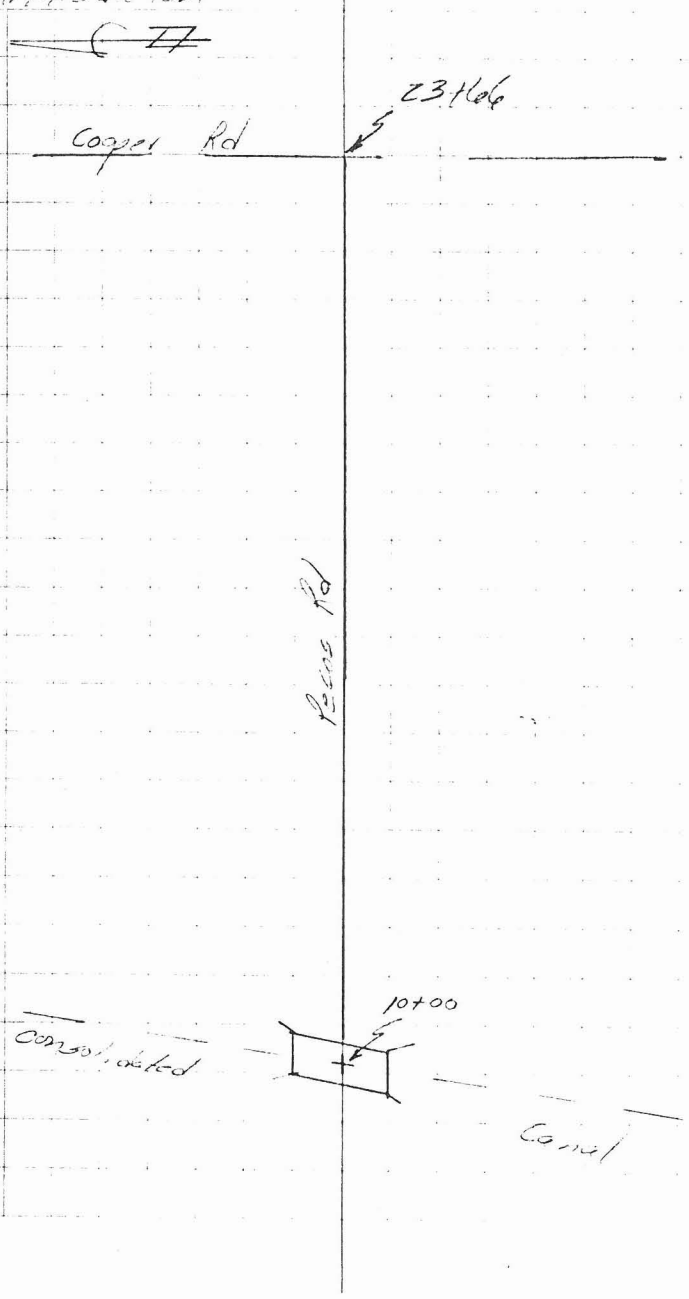
NOTE'S	BY	DATE
CHECKED	LT	6.16.88
COPIED		
	TO	DATE
DELIVERED		

MCFCD Rio Rico Pecos Rd - (4)
Consolidated Canal

NOTE'S	BY	DATE
CHECKED	LT	10.11.88
COPIED		
	TO	DATE
DELIVERED		

Drainage Reconnaissance
M. Mickelson
10/6/33

032
TE4



1 MCFCD	Profile - Pecos Rd. Comstock Ln. & Canal			@
TBM#46	2.73	36.54 T		1233.31
10+00			3.09	33.45
11+00			3.43	33.11
12+00			4.06	32.48
13+00			4.06	32.48
14+00			3.90	32.64
TP#1	5.56	38.20 T	3.90	32.64
15+00			5.19	33.01
16+00			4.97	33.23
17+00			4.73	33.47
18+00			4.42	33.78

B.C. - N. Cor Bridge @ Canal & Pecos (Sta 807 Rt 50)

& Bridge @ Canal & Pecos Rd

N. Edge Asph

" " "

" " "

" " "

GPS: N. Edge Rd - 14+00

N. Edge Asph

" " "

" " "

" " "

1 MCFCD	Profile	Proposed Consolidated	@ Ground	
		1233.50 ↑		
19+00			4.18	34.02
20+00			3.79	34.41
TP#2	5.81	40.22 ↑	3.79	34.41
21+00			5.32	34.90
22+00			4.82	35.40
23+00			3.75	36.47
23+66			2.91	37.31
TP#3	2.64	40.42 ↑	2.64	37.78
TP#2	4.62	39.03 ↑	6.01	34.41
TP#1	5.73	38.37 ↑	6.39	32.64
TBM#4-4L			4.55	33.82

10/6/80

332/128

N. Edge Asphalt

GPS [illegible] 20+00

N. Edge Asph

" "

Intersection Pecos & Copper Roads

GPS Hole ③ N.W. [illegible] Pecos & Copper

Loop Return

Loop Return

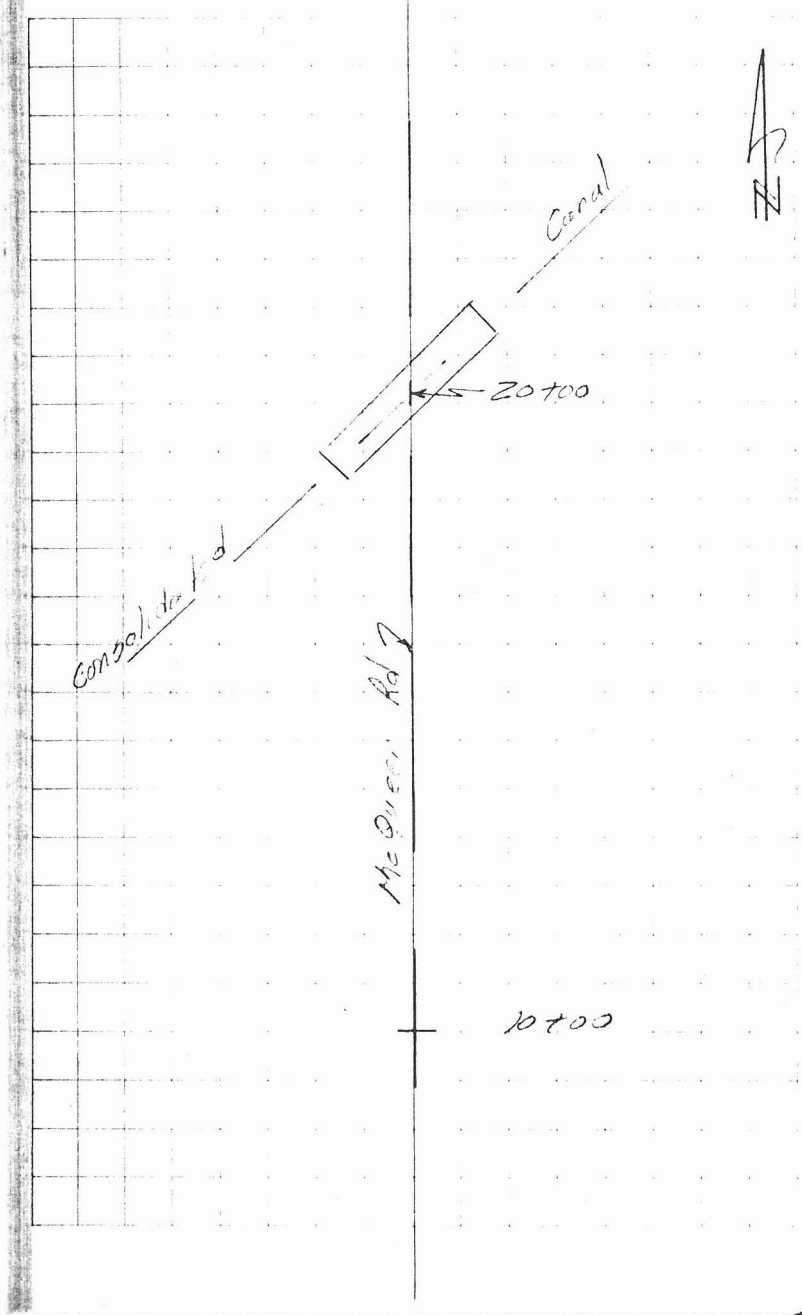
Loop Return

1 McCCD

Profile McQueen Rd. – S. of Consolidated Canal

10/6/33

532/130



1 MCFCD	Profile - Mc Queen Rd S. of Guadalupe Canal			
TBM #1	4.24	31.79 ↑		127.55
10+00			4.63	27.11
11+00			4.71	27.05
12+00			4.38	26.91
13+00			5.09	26.70
14+00			4.89	26.90
15+00			4.73	27.36
16+00			4.74	27.05
TP #1	5.42	32.19 ↑	5.02	26.77
17+00			5.20	26.99
18+00			4.95	27.34

12/6/33

-32
TBC

CPS - Ps Pole 4 (54 317 - Ps 16)		Mc Queen Rd
2	Mc Queen Rd	
11	"	"
11	"	"
11	"	"
2	Mc Queen	Rd
11	"	"
11	"	"
CPS - E Edge Rd		16+05
2	Mc Queen Rd	
11	"	"

1 MCFCD	Profile – McQueen Rd Consolidated		S. of Canal
	1232.19 ↑		
19+00		4.70	27.49
20+00		4.65	27.54
TBM #7-3		5.55	26.64 (26.63)

10/6/33

832
54

℄ McQueen Rd

Intersection McQueen Rd & Consolidated Canal

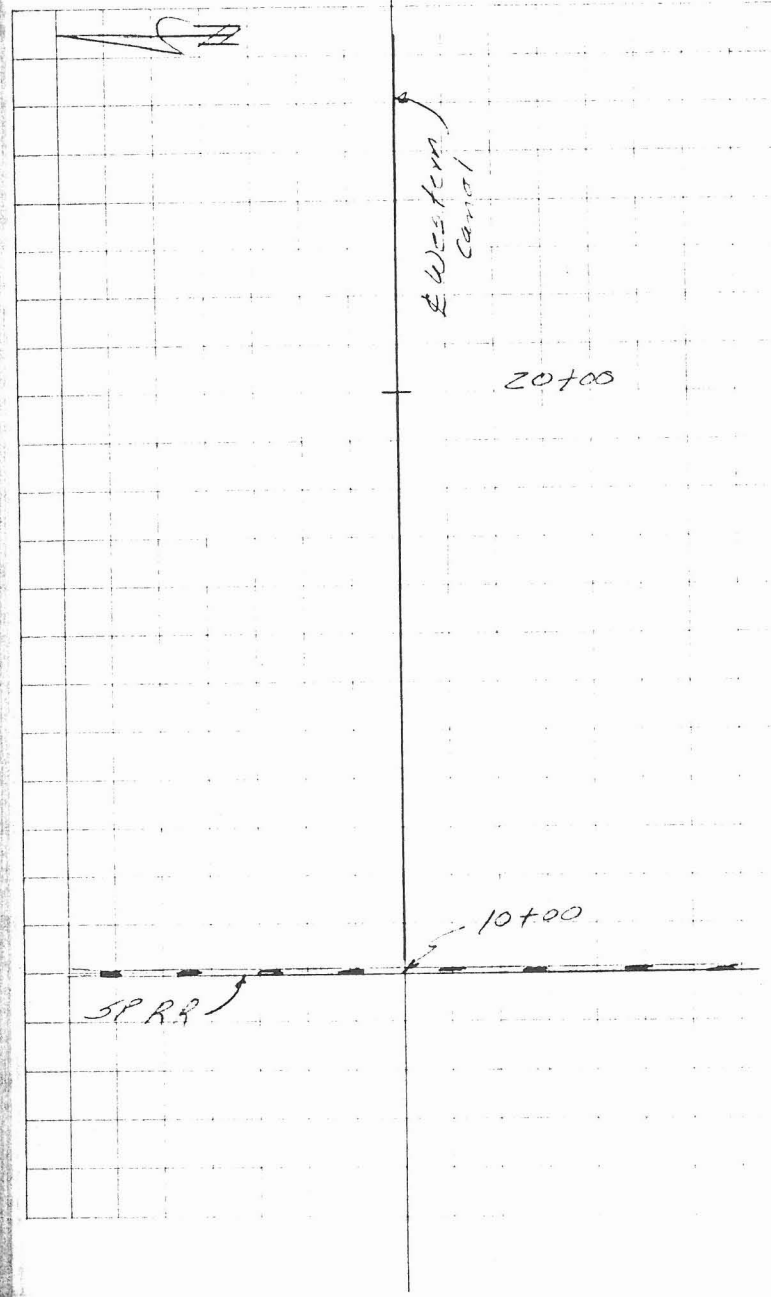
½" Iron Pipe in Monument Rd
(Bk 816 Pg 6)

MACFCD

Profile – N. & S. Banks of Western Canal – @ SPRR

10/6/92

932
TBC



Sta MCECO	Profile B.S	Canal H.I	H.I. @ F.S.	Ground - Elevation Sta. & Elev.
TBM #HC-11	5.48	16.30 ↑		12 10.82
10+00			3.55	12.75
10+20			3.9	12.4
11+00			4.0	12.3
12+00			4.1	12.2
13+00			4.0	12.3
14+00			4.0	12.3
15+00			3.6	12.7
16+00			3.7	12.6
TP #1	6.38	18.30 ↑	4.38	11.92
17+00			5.9	12.4

9/6/88

332
733

½" RB - SE Cn. of RR & Western Canal
BK 302 Pg 62

N. Bank @ & R.R.

N. Bank

N. Bank

" "

" "

" "

" "

" "

GIRS - STCD - 16+30

MCFCD

Profile - N & S Banks - Western Canal @ SPRR

		12 18.30 ↑		
13+00			5.7	12.6
19+00			5.75	12.55
20+00			5.75	12.55
20+00			4.8	13.5
19+00			5.05	13.25
18+00			5.4	12.9
17+00			5.55	12.75
16+00			6.35	11.95
TP#2	4.51	16.45 ↑	6.36	11.94
15+00			4.75	11.7

10/6/33

982
750

N. Bank

" "

" "

S. Bank

S. Bank

" "

" "

" "

GPS: N. Bank - 16+00

S. Bank

10/6/83

932
HC

MCFCD — Profile N E S Banks Western Canal @ SPRR

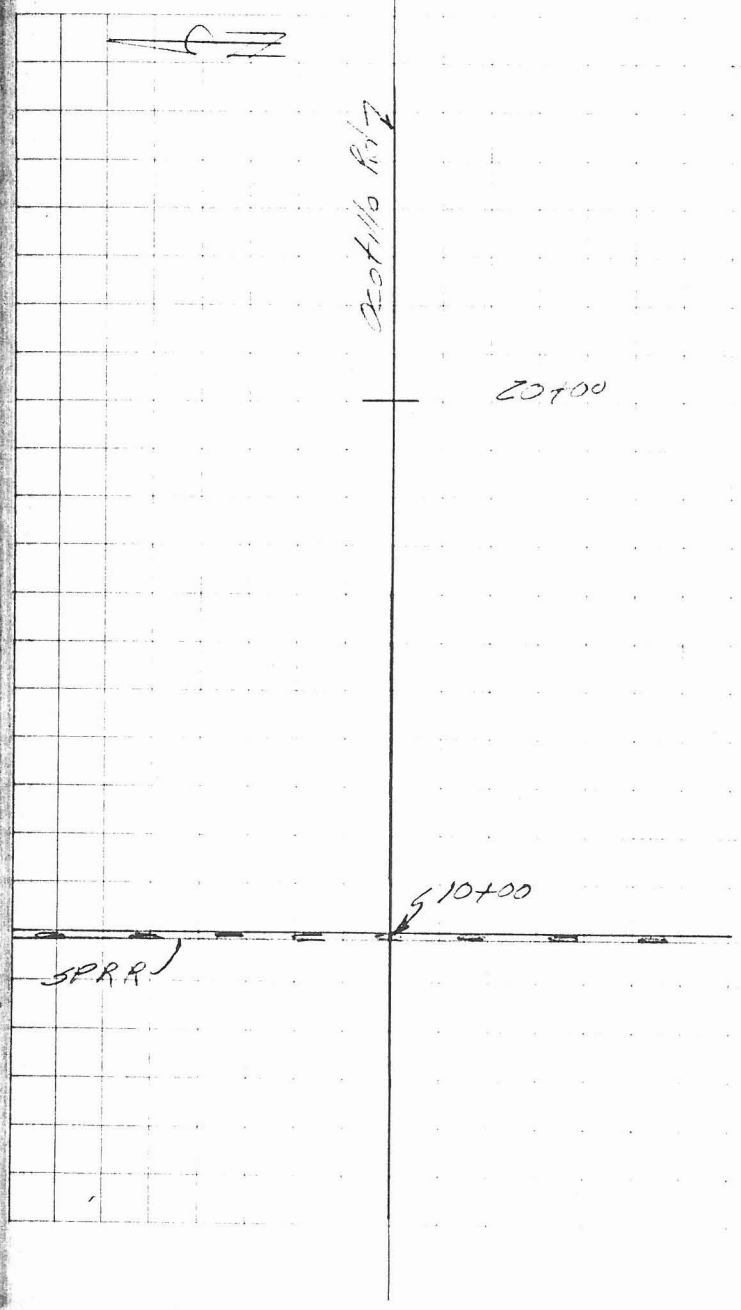
XZ16.45

14+00	5.1	11.35	S. Bank
13+00	5.4	11.05	" "
12+00	5.3	11.15	" "
11+00	5.0	11.45	" "
10+50	4.4	12.15	" "
10+00	3.3	13.15.	S. Bank @ ℄ R ℄
TBM # HC-11	5.62	10.83 (10.57)	Loop Return

MCFCD | Profile - Ocotillo Rd @ SPRR

10/6/53

932
E4



MCFCO	Profile – E. of E. Canal		S. of	Pcoe –
		1269.91 ↑		
13+00				
TP #1	4.16	70.20 ↑	3.87	66.04
14+00				
15+00				
16+00				
17+00				

6/13/32

332/104

64.75 ✓ 5.15 Field

65.85 ✓ 4.05 Berm

66.04 ✓ 3.87 N. TCO

OP's – N. TCO – 13+00

64.25 ✓ 5.7 Field

66.1 ✓ 4.1 Berm

66.10 ✓ 4.10 N. TCO

64.95 ✓ 5.25 Field

66.1 ✓ 4.1 Berm

66.25 ✓ 3.95 N. TCO

64.6 ✓ 5.6 Field

66.25 ✓ 3.95 Berm

66.30 ✓ 3.90 N. TCO

65.25 ✓ 4.95 Field

66.45 ✓ 3.75 Berm

66.45 ✓ 3.75 N. TCO

MCFCD	Prof/c-	S. of E. Canal	Perds	
		1270.20 ↑		
18+00				
19+00				
20+00				
TP#1	4.17	70.21 ✓ ↑	4.16	66.04 ✓
TBM#5-44			6.22	63.99 ✓ (63.99)

6/13/23

932
126

65.8 ✓
4.4
Field

66.55 ✓
3.25
Berm

66.55 ✓
3.65
N
TCO

65.4 ✓
4.8
Field

66.20 ✓
3.4
Berm

66.70 ✓
3.50
N
TCO

66.1 ✓
4.1
Field

66.6 ✓
3.6
Berm

66.65 ✓
3.55
N
TCO

GAS - Loop Return

GAS - Loop Return

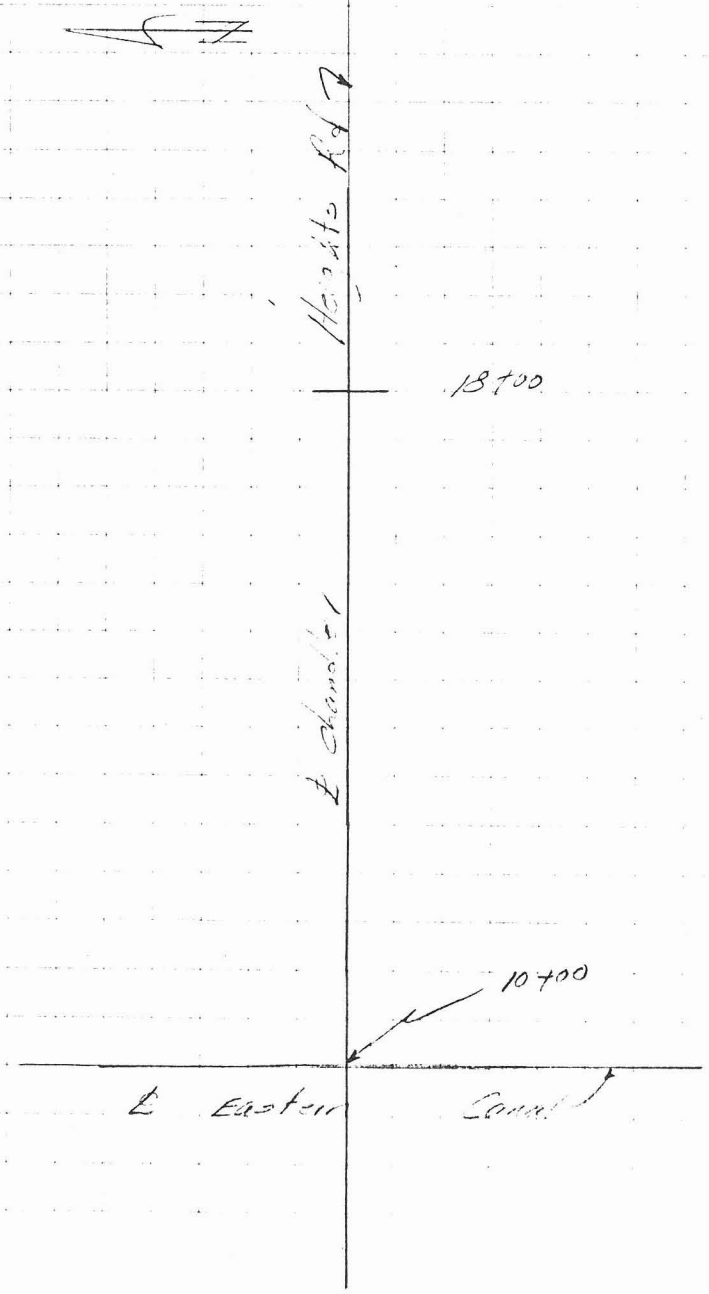
NOTE'S	BY	DATE
CHECKED	LT	6.16.88
COPIED		
	TO	DATE
DELIVERED		

MCFCD

Profile – Chandler Heights Rd – @ Eastern Canal

4/13/33

83c
133



1 MCFCD	Prof. to — ④		Chandler Heights Rd Eastern Canal	
TBM RS-46	4.10	57.95 ✓ ↑		1253.35
8+00			4.93	52.97 ✓
9+00			4.59	53.36 ✓
10+00			4.12	53.82 ✓
11+00			3.92	54.01 ✓
12+00			3.74	54.21 ✓
13+00			3.50	54.45 ✓
14+00			3.28	54.67 ✓
TP #1	5.19	59.50 ✓ ↑	3.64	54.31 ✓
15+00			4.56	54.94 ✓
16+00			4.33	55.17 ✓

6/23/83

832/10

CPS- Int. Chandler Hgts. Rd & Eastern Canal (Bk 817 Pg 130)

℄ C.H. Rd.

"

Int. C.H. Rd & E. Canal

℄ C.H. Rd.

"

"

"

CPS- N ℄ [illegible] Hgts. Rd

℄ C.H. Rd.

"

MCFD	Rifle - @	Chandler Hwy to Fd. Factoria Comm.
	1259.50 T	
17+00		4.07 55.43 ✓
18+00		3.77 55.73 ✓
78+13-47		3.81 55.69 ✓ (55.61)

6/13/88

2 Cst Pts

"

CBS - Rifle - S. Side Chandler Hwy to Fd. (Bk 817 Pg 130)

NOTE'S	BY	DATE
CHECKED	LT	6.16.88
COPIED		
	TO	DATE
DELIVERED		

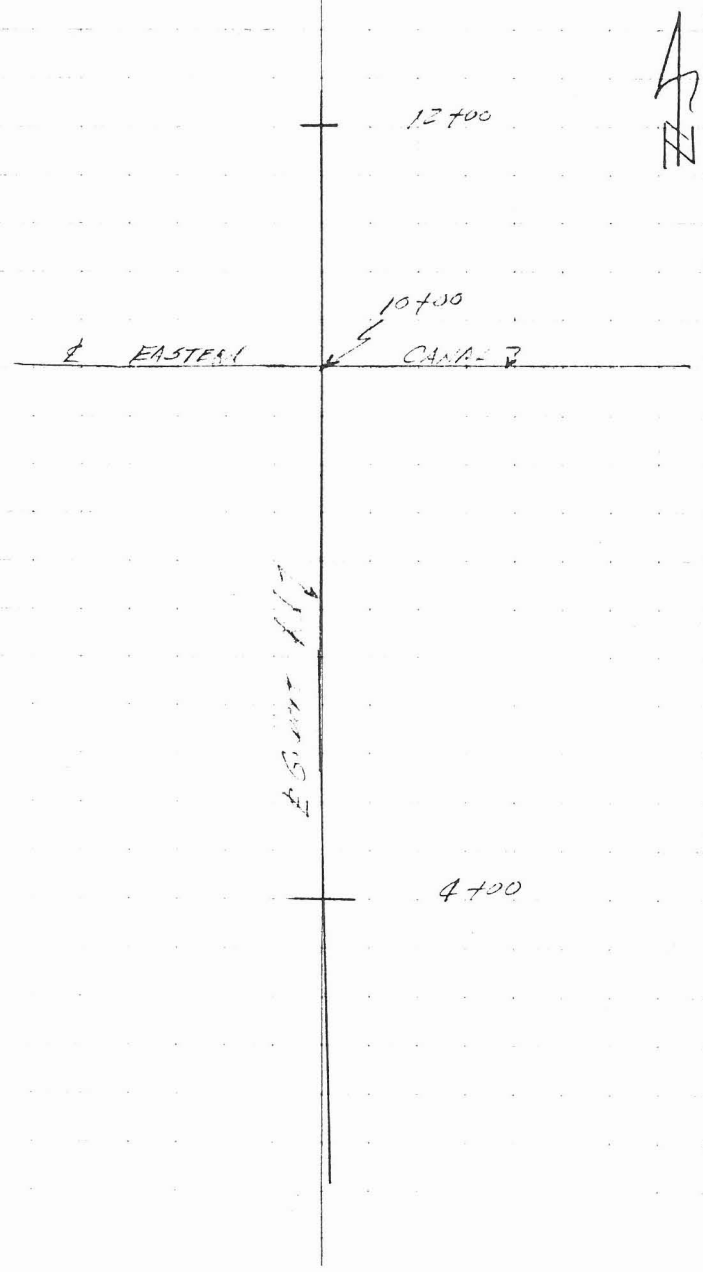
Mcaco

Profile - Gilbert Rd @ Eastern Canal

L Dan Dyke
R. Mayberry
M. Middleton

6/12/88

832
TIC



MCFCD | Profile — Gilbert Rd. @ Eastern Canal | ②

TBM UC-29	5.35	62.40 ✓ ↑			1357.55
12+00			5.95	56.45	✓
11+00			5.56	56.84	✓
10+00			5.33	57.07	✓
9+00			4.97	57.43	✓
8+00			4.69	57.71	✓
TP #1	5.73	63.00 ✓ ↑	5.13	57.27	✓
7+00			5.02	57.98	✓
6+00			5.09	57.91	✓
5+00			4.87	58.13	✓
4+50			5.05	57.95	✓
TBM #-12			3.92	59.08	✓ (57.83)

6/14/88

332 / 110

CBS - E Side of Eastern Canal @ Gilbert Rd
(BK 317 Pg 100)

CBS - W. Side of Rd - 8+00

NOTE'S	BY	DATE
CHECKED	LT	6.16.88
COPIED		
	TO	DATE
DELIVERED		

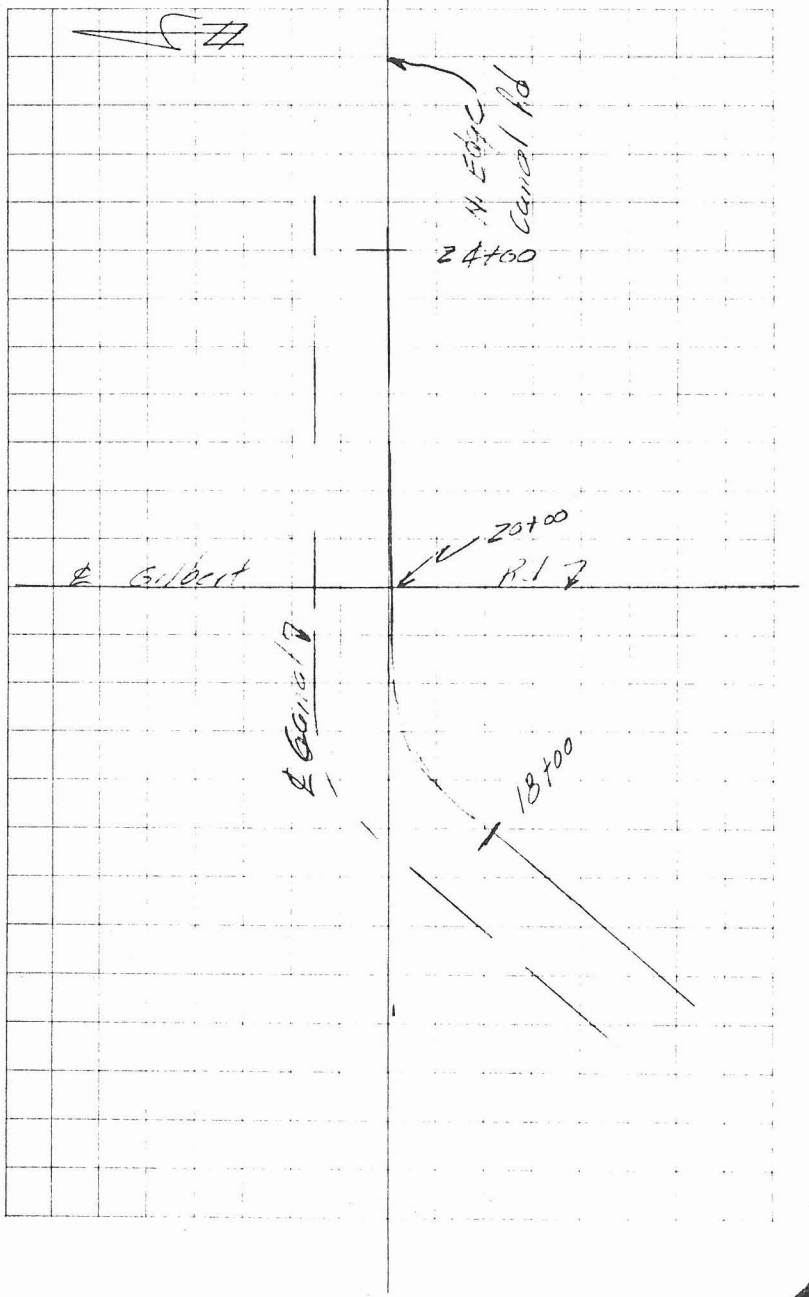
CBS - E Side of Eastern Canal @ Gilbert Rd (BK 317 Pg 100)

MCFCD

Profile – Canal Rd – Eastern Canal

6/14/29

352
113



MCFCD

Profile - Eastern Canal

6/14/83

332/120

TBM #C-28	5.35	62.40 ✓ ↑	1257.05 ↓	CL - & Grade ② E. Canal (Bk 317 Pg 100)
18+00		5.95	56.45 ✓	
19+00		5.8	56.6 ✓	
19+60		5.65	56.75 ✓	Grade Break
19+69		6.25	56.15 ✓	Grade Break
19+86.5		5.70	56.70 ✓	W. Edge of Asphalt
20+00		5.29	57.11 ✓	℄ Gilbert Rd
20+13.5		5.43	56.92 ✓	E. Edge Asph.
20+35.5		5.45	56.95 ✓	Grade Break
21+00		5.15	57.25 ✓	
22+00		4.95	57.45 ✓	

MCFCD

Profile - Canal Rd @ E. Canal

		1262.40 ↑			
23+00			4.7	57.7 ✓	
24+00			4.85	57.55 ✓	
TP #1	5.23	63.00 ↑	5.13	57.27	
TBM #8-12			3.92	59.08 ✓	(59.03)

6/13/88

332
123

OPS - W. Edge [illegible] Rd. -

OPS - R Rlc - F side Canal Rd (BK BM 59.00)

NOTE'S	BY	DATE
CHECKED	LT	6.16.88
COPIED		
	TO	DATE
DELIVERED		

MCFCD

Profile - Reams Rd - (4)
Consolidated Canal

NOTE'S	BY	DATE
CHECKED	LT	10.11.88
COPIED		
	TO	DATE
DELIVERED		

Drainage Investigation
Mitigation

10/6/33

032
T24

23+66

Consol Rd

Reams Rd

10+00

Consolidated

Canal

1 MCFCD	Profile Pegs for Compaction Control		@ Centerline	
TBM#46	2.73	36.54 T		1233.81
10+00			3.09	33.45
11+00			3.43	33.11
12+00			4.06	32.48
13+00			4.06	32.48
14+00			3.90	32.64
TP#1	5.56	38.20 T	3.90	32.64
15+00			5.19	33.01
16+00			4.97	33.23
17+00			4.73	33.47
18+00			4.42	33.78

B.C. No. Cr Bridge @ Centerline Pegs
(H 807 Pg 50)

2 Bridge @ Centerline Pegs Rd

N. Edge Asph

" " "

" " "

" " "

GPS - N. Edge Rd - 14+00

N. Edge Asph

" " "

" " "

" " "

1 MCFD	Prof #	Rough - Adj Consolidated	@ Comb	
		1238.50 ↑		
19+00			4.18	34.02
20+00			3.17	34.41
TP#2	5.81	40.22 ↑	3.19	34.41
21+00			5.32	34.90
22+00			4.82	35.40
23+00			3.75	36.47
23+66			2.91	37.31
TP#3	2.64	40.42 ↑	2.44	37.78
TP#2	4.62	39.03 ↑	6.01	34.41
TP#1	5.73	38.37 ↑	6.39	32.64
TBM#5-4			4.55	33.82

(33.81)

N. Edge Asphalt

GPS N. Edge @ 20+00

N. Edge Asph

" " "

" " "

Intersection Rose & Copper Roads

GPS Hdwl @ NW Cor Rose & Copper

Loop Return

Loop Return

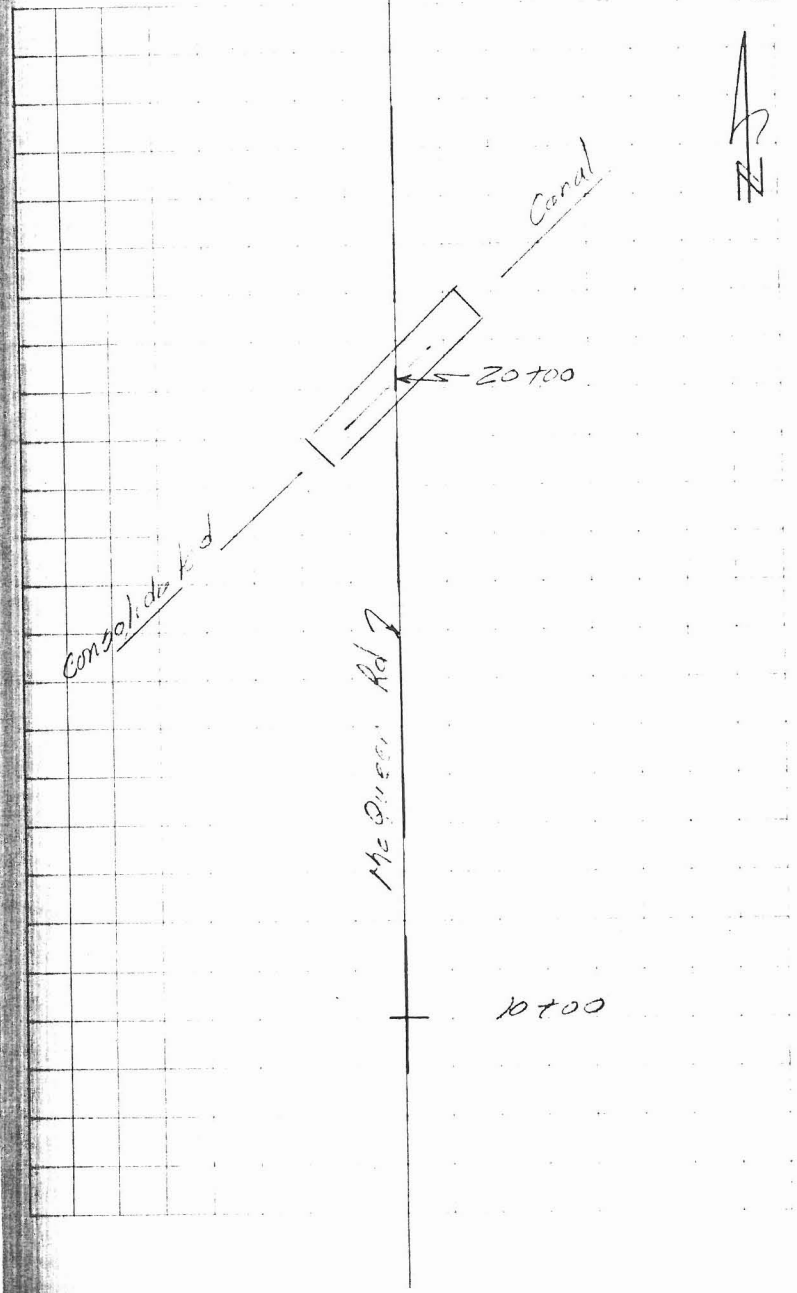
Loop Return

MCECO

Profile McQueen Rd – S. of Consolidated Canal

10/6/83

632/130



MCFCD | Profile - McQueen Rd S. of Consolidated Canal

TBM#7-4	4.24	31.79 ↑		1227.55
10+00			4.63	27.11
11+00			4.74	27.05
12+00			4.88	26.91
13+00			5.09	26.70
14+00			4.89	26.90
15+00			4.73	27.06
16+00			4.74	27.05
TP#1	5.42	32.19 ↑	5.02	26.77
17+00			5.20	26.99
18+00			4.85	27.34

10/6/83

5SC
18C

GPS - Pol Pole Line Rd (SA 317 - PG 16) McQueen Rd

℄	McQueen	Rd	
11	11	11	
11	11	11	
11	11	11	
℄	McQueen	Rd	
11	11	11	
11	11	11	

GPS - E. Pole Line Rd 16+00

℄	McQueen	Rd	
11	11	11	

MCFCD	Profile	McQueen Rd	Consolidated	S. of Canal
		1232.19 ↑		
19+00			4.70	27.49
20+00			4.65	27.54
TBM #1-3			5.32	26.64 (26.03)

10/6/33

332
334

2 McQueen Rd

Intersection McQueen Rd & Consolidated Canal

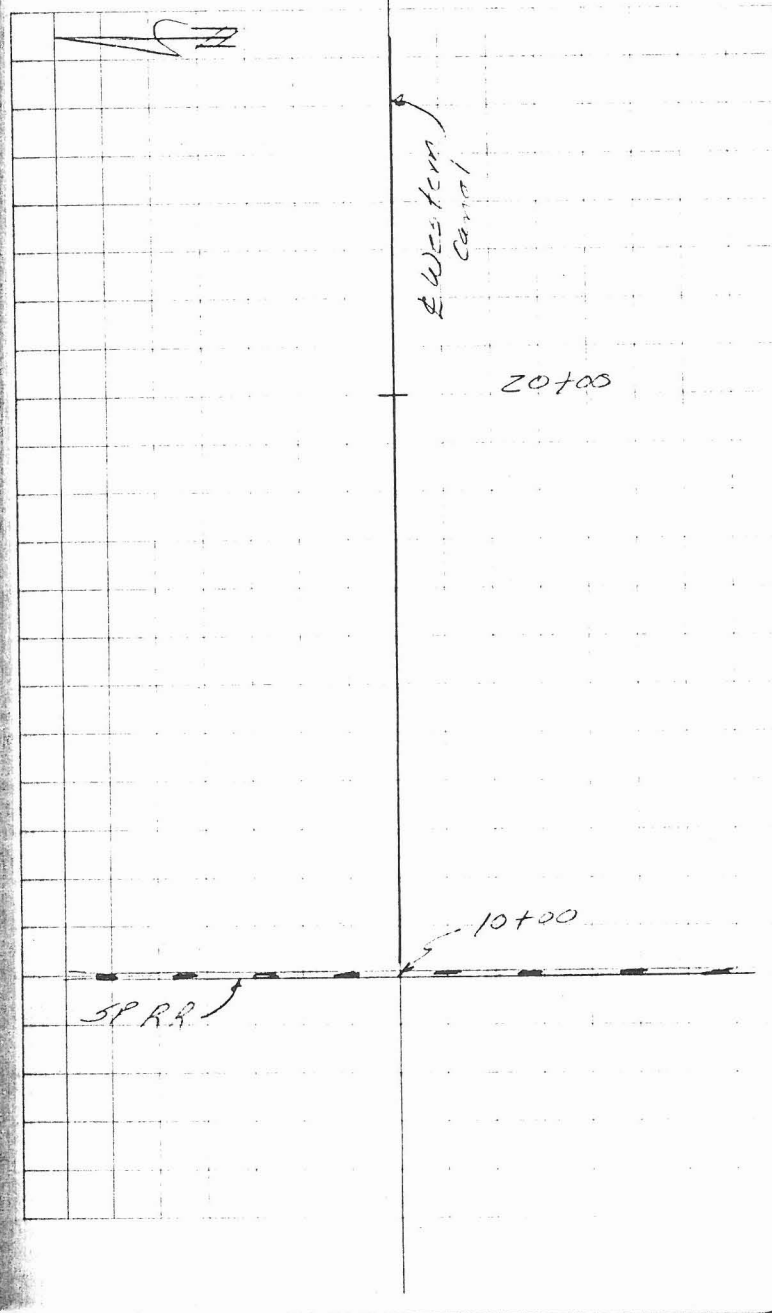
½" R.B. - Base, McQueen Rd
(El. 816 by 6)

MCFCD

Profile – N. & S. Bank of Western Canal @ SPRR

10/5/22

533
15c



MCFCD	Profile	H.F.S.	Bench - Western Canal @ SPRR	
TBM #HC-11	548	16.30 ↑		12+0.32
10+00			3.55	12.75
10+20			3.9	12.4
11+00			4.0	12.3
12+00			4.1	12.2
13+00			4.0	12.3
14+00			4.0	12.3
15+00			3.6	12.7
16+00			3.7	12.6
TP #1	6.38	18.30 ↑	4.38	11.92
17+00			5.9	12.4

1/6/88

332
333

1/6" BB - SE Cn. SPRR & Western Canal
Bk 332 Pg 62

N. Bank @ ℄ R.R.

N. Bank

N. Bank

" "

" "

" "

" "

" "

GIPS - S.TCD - 16+30

MCFCD	Prof. of N E & Banks - Western Canal & SPRR				
		12/18.30 ↑			
13+00			5.7	12.6	N. Bank
19+00			5.75	12.55	" "
20+00			5.75	12.55	" "
20+00			4.8	13.5	S. Bank
19+00			5.05	13.25	S. Bank
18+00			5.4	12.9	" "
17+00			5.55	12.75	" "
16+00			6.35	11.95	" "
TP#2	4.51	16.45 ↑	6.36	11.94	GPS - N. Bank ℄ - 16+00
15+00			4.75	11.7	S. Bank

10/6/33

9826
T.D.

, MCFCD	Profile - N-S Banks - Western Canal @ SPRR				
		1216.45 ↑			
, 14+00			5.1	11.35	
13+00			5.4	11.05	
12+00			5.3	11.15	
, 11+00			5.0	11.45	
, 10+50			4.4	12.15	
10+00			3.3	13.15	
, TBM #AC-11			5.62	10.83	(10.82)

10/6/83

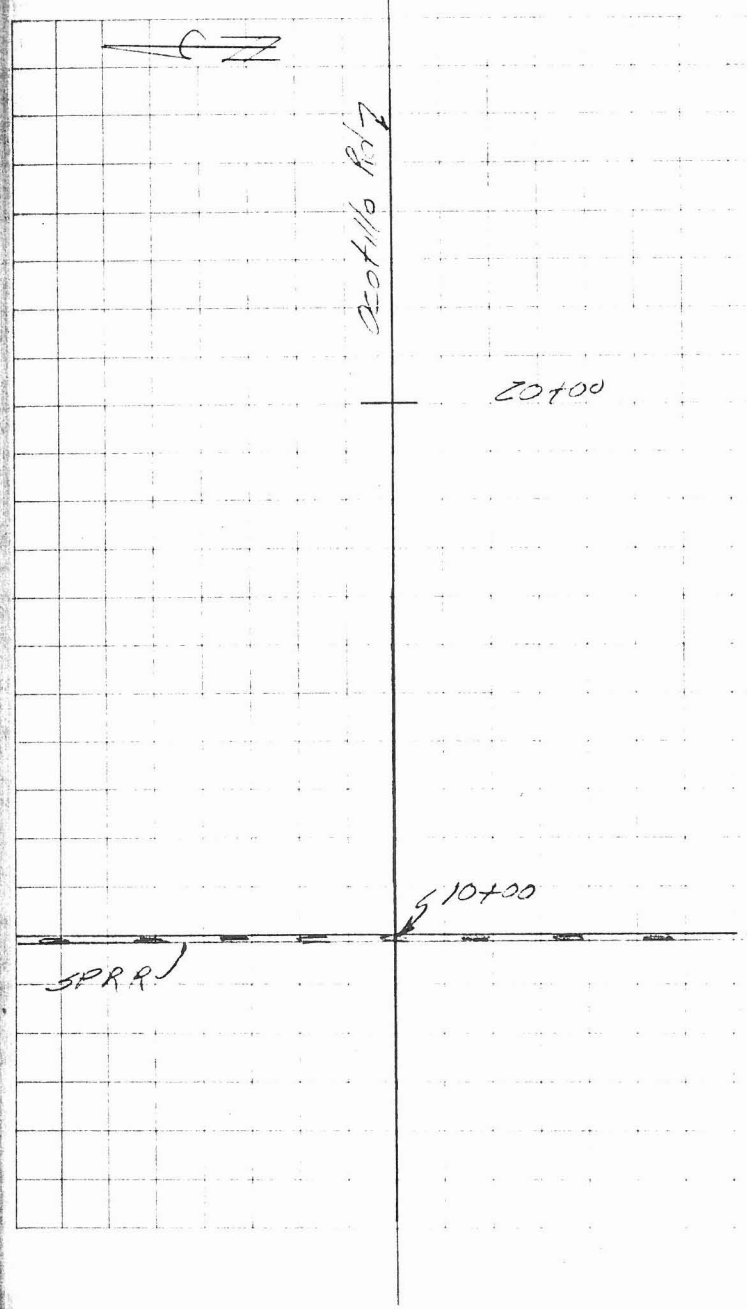
932
HC

S. Bank	
" "	
" "	
" "	
" "	
S. Bank @ 2 R R	
Loop Return	

MCFCD Profile - Ocotillo Rd - @ SPRR

10/6/38

932
XII



MCFCD | Profile - Ocotillo Rd @ SPRR

TBM #HC-57	5.50	27.02 T		1231.52
10+00			3.26	23.76
10+50			3.66	23.36
11+00			4.35	22.67
12+00			4.90	22.12
13+50			5.22	21.80
14+00			5.60	21.42
15+00			5.53	21.49
TP #1	5.74	27.06 T	5.70	21.32
16+00			5.27	21.79
17+00			5.03	22.03

10/6/88

932
146

GPS - ℄ Ocotillo Rd. - 450' W of RR
(Sht 2.7 - Pg 74)

Int. Ocotillo Rd & SPRR

N. Edge of Asph.

" " " "

℄ Road

℄ Road

" "

" "

GPS S. Edge of Rd 15+00

℄ Road

" "

MCFCP	Profile - Ocotillo			Rd @ SPRR	
		1227.06 ↑			
18+00			4.72	22.34	
19+00			4.80	22.26	
20+06			4.80	22.26	
TP#2	5.06	27.32 ↑	4.80	22.26	
TP#1	5.64	26.97 ↑	5.99	21.33	
TBM #HC-57			5.44	21.53	⟨21.52⟩

10/6/39

332
T-8

℄ Ocotillo Rd

" " "

" " "

GPS. N. Edge of Rd

Loop Return

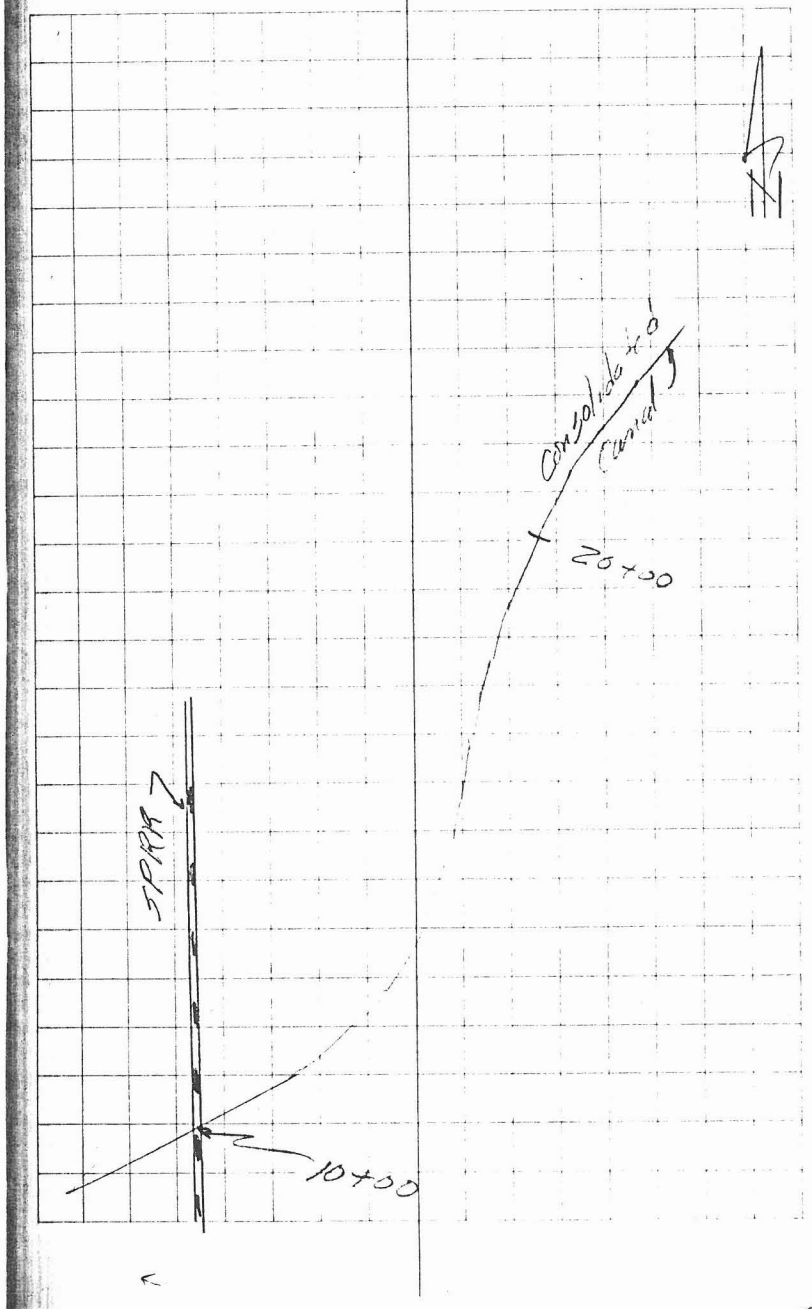
Loop Return

MCFCD

Profile Top Banks — Consolidated Canal @ SPRR

10/6/83

932/150



MCFCA	Profile – Top of Consolidated Coal @ SPRR			Bank – Top of Consolidated Coal @ SPRR
TBM #1-31	4.70	23.95 T		1219.25
10+00			2.9	21.05
10+25			4.95	19.00
11+00			5.3	18.65
12+00			5.25	18.7
13+00			5.3	18.65
14+00			5.4	18.55
15+00			5.55	18.4
16+00			5.65	18.3
TP# 1	5.19	23.40 T	5.74	18.21
17+00			5.1	18.3
18+00			5.2	18.2

10/6/33

832/152

½" R.B. – SE Cor of Consol. Coal @ SPRR (BK 817 Pg 40)

E. Bank @ SPRR	
E. Bank	
" "	
" "	
" "	
" "	
" "	
" "	
ORG E Bank – 16+00	
E. Bank	
" "	

Profile - Top Banks - Canalized Canal @ SPRR

10/6/33

832/154

MCCO		1223.40 T			
19+00			5.25	13.15	E. Bank
20+00			5.3	18.1	" "
20+00			5.35	18.05	W. Bank
19+00			5.25	18.15	" "
18+00			5.15	18.25	" "
17+00			5.05	18.35	" "
16+00			5.1	18.3	" "
TP #2	5.67	24.00 T	5.07	18.33	OPS - W. Bank - 16+00
15+00			6.15	17.85	W. Bank
14+00			6.25	17.75	" "
13+00			6.25	17.75	" "

MCTCO	Baffle – Top Bank – Consolidated Coal @ SPRR			
	1224.00			
12+00		6.15	17.85	
11+00		6.5	17.5	
10+50		5.7	18.3	
10+00		3.55	20.45	
TBM #VC31		4.73	19.27	(19.25)

10/6/88

W. Bank

" "

" "

W. Bank & SPRR

Cap Return

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DELIVERED		

MCFCD

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Bk 825

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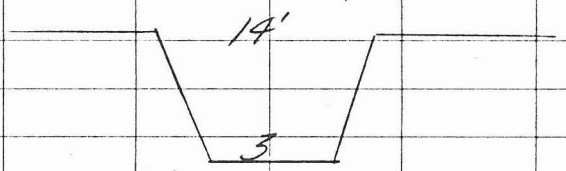
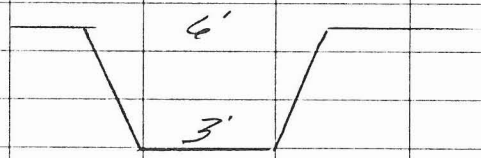
35901.00	Site Surveys - SPRR - Phase 1		9° (43)	12-31-87	123-152

MCFCD

Flood Control
Study - SP Spur Line



Typical X-Section -
Dirt Ditch To West

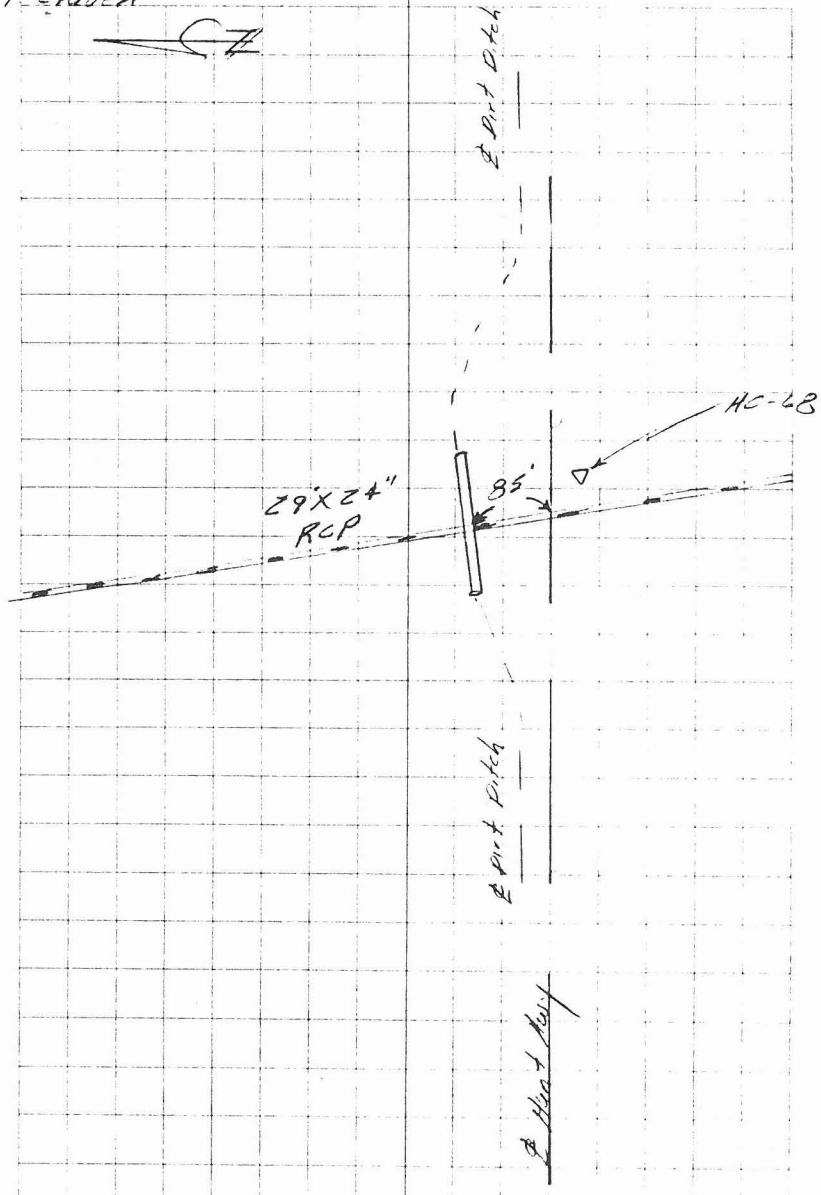


Typical X-Section
Dirt Ditch TO East

Liddon Dyke
R. McMurray
T. Graven

11/30/87

925
2



MCFCD — Flood Control Study — SP Spur Line (see Pg 2)

11/30/87

825/4

TBM #68 4.84 24.10 ↓ 19.26 ↑

E. End 24" RCP

W. End 24" RCP

50' East of E. End RCP

50' West of W. End RCP

TBM #68 4.84 19.26 ✓ (19.27)

NOTE'S	BY	DATE
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COPIED		
	TO	DATE
DELIVER		

½" R.B. — SE Cor. - Intersection Hazel Hwy. & R.R.

21.70 / 2.40 / & R.R.

14.35 / 9.75 / Inv.

17.55 / 6.55 / Hdwl.

17.05 / 7.05 / Hdwl.

13.90 / 10.20 / Inv.

16.25 / 7.85 / Top N. Bank

14.15 / 9.95 / ℄ Ditch

16.65 / 7.45 / Top S. Bank

15.70 / 8.40 / Top N. Bank

12.60 / 11.50 / ℄ ditch

17.70 / 6.40 / Top S. Bank

½" R.B. - Loop Return

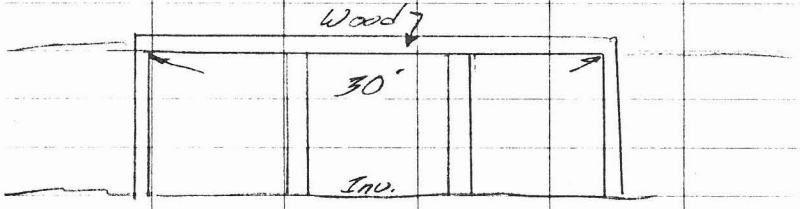
MCFCD

Flood Control Study

SP Spur Line

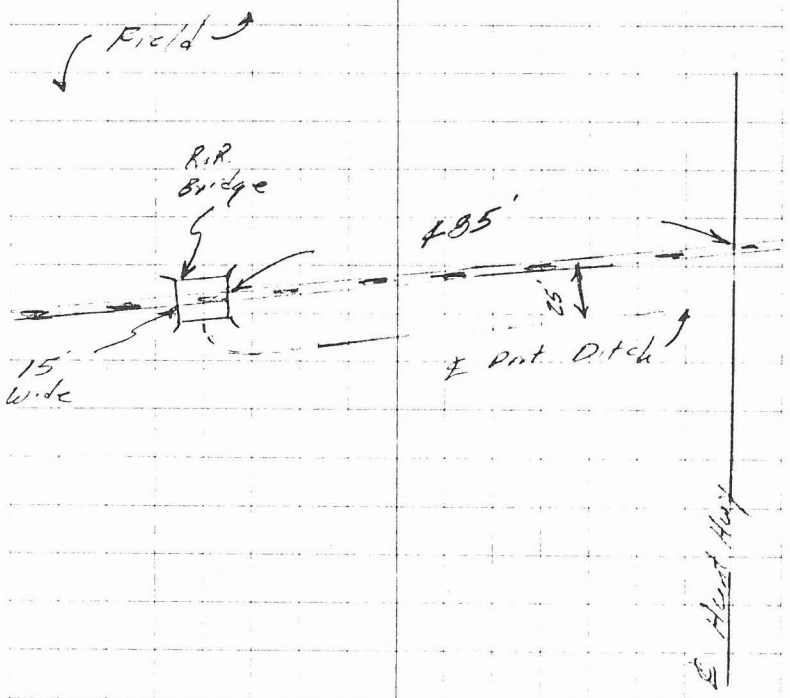
11/30/137

825/6



R.R. Bridge

Typ. X-Sect.
Dirt Ditch to S.



McECO — Flood Control Study — SP Spur Line — (See Pg 6)

TBM-7-37	1.37	22.68		1221.31
50' E. of Bridge				
E. End Bridge				
W. End Bridge				
50' W. of Bridge				
TBM 7-37			1.37	21.31 (21.31)

NOTE'S	BY	DATE
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COPIED		
	TO	DATE
DELIVERED		

11/30/87

8.25
8

CPS - ℄ R.R. - 700' N. of Hunt Hwy.

J 15.8 / 6.90 Field

J 21.5 / 1.20 ℄ R.R.

J 13.9 / 8.80 Inv

J 18.17 / 4.35 Top Bridge opening

J 18.17 / 4.35 Top Bridge opening

J 14.05 / 9.65 Inv

J 14.34 / 8.35 Top W. Bank

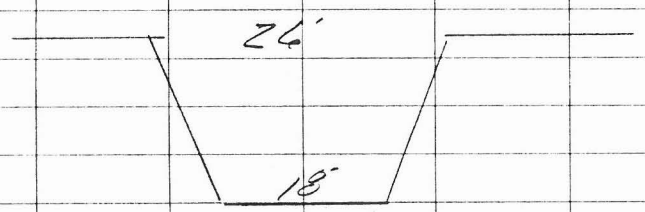
J 16.15 / 9.95 Inv. Dirt ditch

J 15.55 / 7.15 Top E. Bank

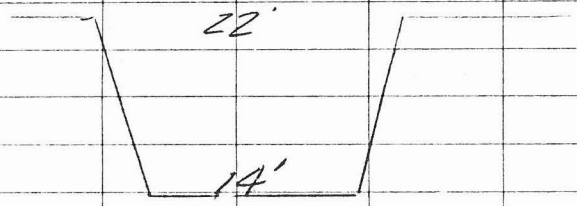
CPS - Loop Return

MCFCD

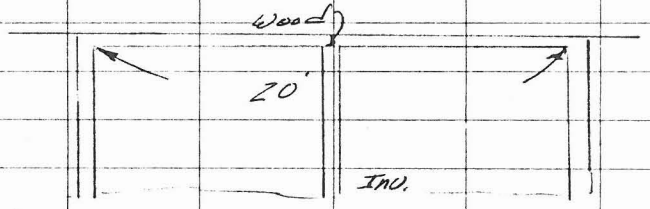
Flood Control Study –
SP Spur Line



Typ. – X-Section –
Dirt Ditch to E.



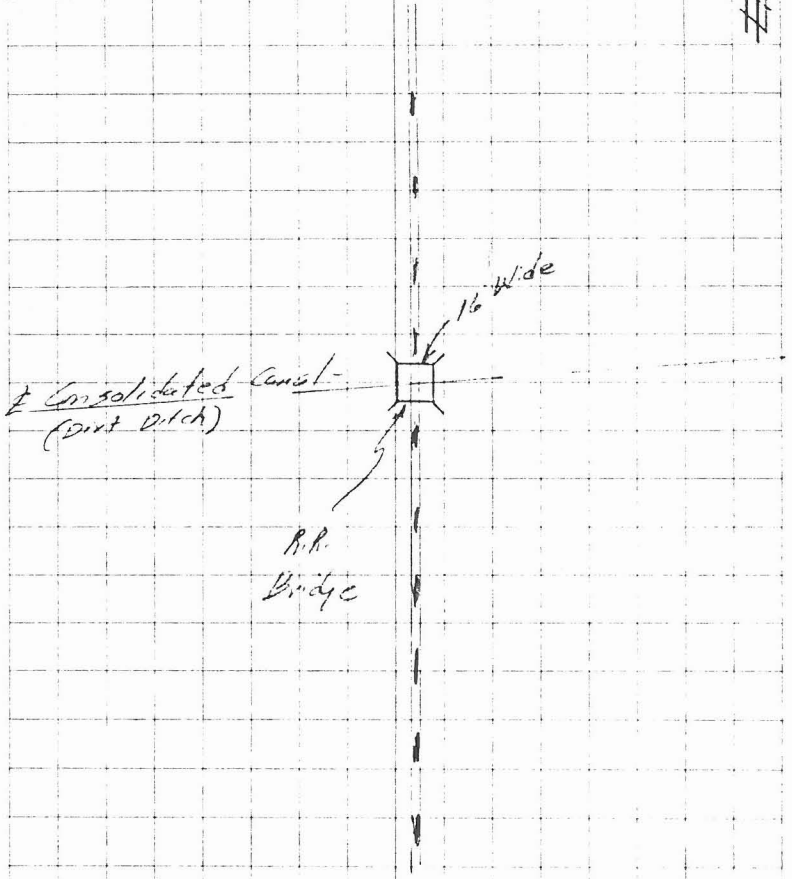
Typ. X-Sect. –
Dirt Ditch to W.



R.R. Bridge

11/30/37

925
10



MCFCD Flood Control Study — 11/30/87 — 825/12

SP Spur Line – (see Pg 12)

TBM-VC-31 #	4.20	23.46 ✓		1219.26
50' E. of Bridge				
E. End Bridge				
W. End Bridge				
50' W of Bridge				
TBM VC-31 #		4.20	19.26 J	(19.26)

NOTE'S	BY	DATE
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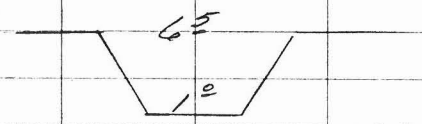
½" R.B. – SE Cor – Intersection R.R. & Consolidated Canal

J 17.6	J 14.25	J 18.35
5.85 Top N. Bank	9.30 Inv. @ Ditch	5.10 Top S. Bank
	J 20.5	J 13.25
	2.95 @ R.R.	10.20 Inv. Ditch
		V 17.45
		6.00 Top Bridge Opening
J 17.5	J 13.1	
5.80 Top Bridge Opening	10.35 Inv. Ditch	
J 17.1	J 13.75	J 13.0
5.35 Top N. Bank	9.70 Inv. @ Ditch	5.45 Top S. Bank

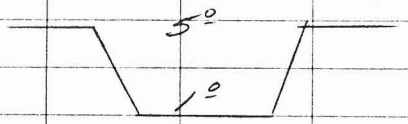
½" R.B. – Loop Return

MCFCD

Flood Control Study —
51st Spur Line —



Typ. Sect. - Conc Ditch
E. of R.R.



Typ. X-Sect - Conc Ditch
W. of R.R.

NOTE'S	BY	DATE
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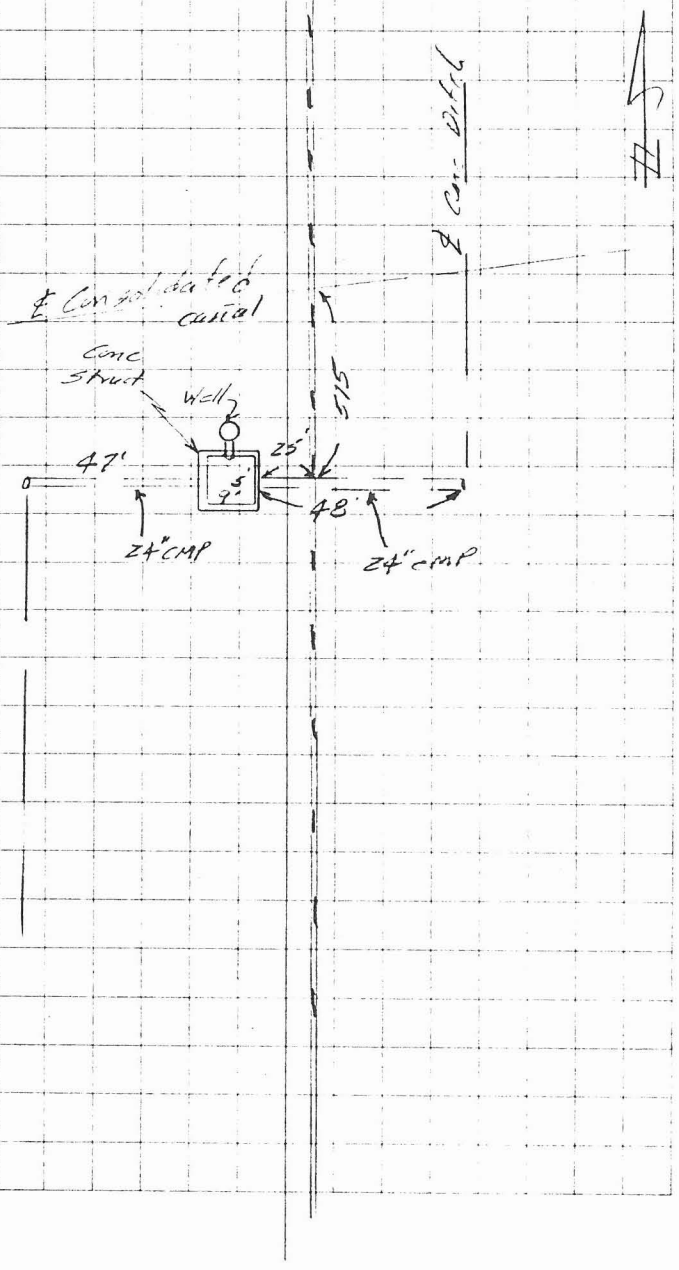
	TO	DATE
DELIVERED		

11/20/87

825
12



MCFCD | Flood Control Study - SP Spur Line (Sht Pg 14)

11/20/87

TBM 7-34	4.01	25.00		1220.99
E. Side R.R. - Conc Ditch		50' N. of CMP		
Inv 24" CMP - E. side R.R.				
Conc Structure - W. side R.R.				
Inv. 24" CMP - W. side R.R.				
Conc Ditch - W. side R.R.		50' S. of CMP		
TBM VC-31			5.74	19.26 (1219.26)

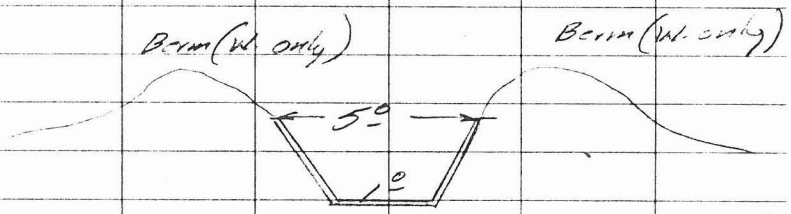
CPS & R.R. - 400' S. of Consolidated Canal

20.93	18.25	20.92
4.07 W. TCD	6.75 Inv C.P.	4.08 E. TCD
	21.02	15.77 / 21.15
	3.98 ℄ R.R.	9.23 Inv CMP / 3.95 TCD
15.15	21.71	
9.85 Inv	3.24 Top Struct.	
19.72	15.82	
6.78 TCD	9.18 Inv. CMP	
18.16	16.09	18.21
6.34 W. TCD	8.91 Inv CP.	6.19 E TCD

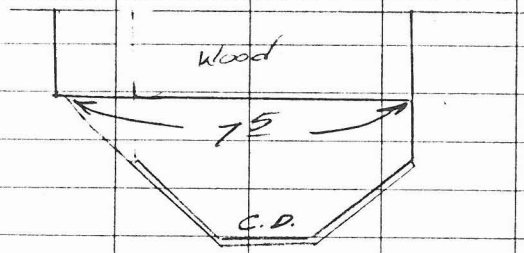
1/2" R.B. - SE Cor - Intersection R.R. & Consolidated Canal

MCFCD

Flood Control Study
SP Spur Line



Typ. - X-Sect. - Conc Ditch



Struct under R.R

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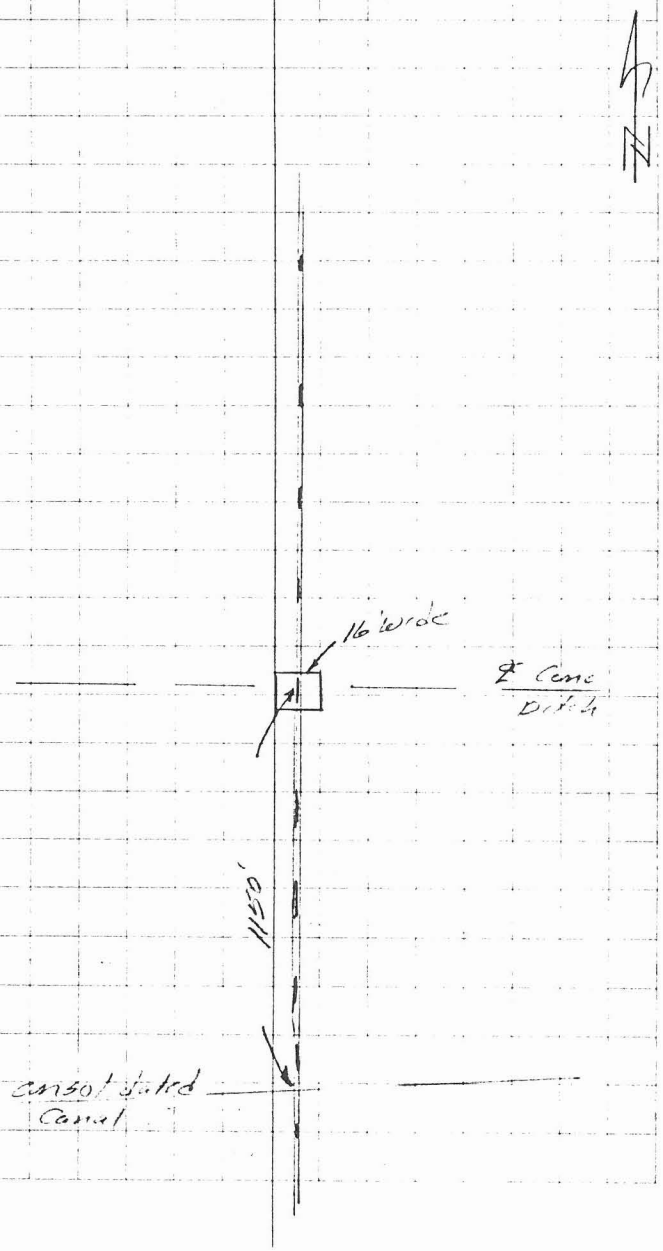
DELIVERED		

11/30/87

935/75



MCFCD | Flood Control Study — SP Sparline (see fig 18) | 11/30/87 | 025/30

TBM #VC-31	4.74	24.00 ✓ ↑		1219.26	1/2" ø Int. R/R Spike in Asphalt at Canal
TP #1	3.79	23.57 ✓ ↑	4.22	19.78 ✓	R.R. Spk. - W. Side R.R. - 560± N. of Canal
Conc. Ditch - 50' E of R.R.					
E. End R.R. Struct.					
W. End R.R. Struct					
Conc Ditch - 50 Wl. of R.R					
TP #1	4.29	24.06 ✓ ↑	3.80	19.77 ✓	R.R. Spk - Loop Return
TBM #VC-31			4.82	19.24 ✓ (19.24)	1/2" R.B. - Loop Return

✓ 16.12 — 7.45 N. TCD

✓ 14.62 — 8.75 Inv. C.D.

✓ 16.17 — 7.40 S. TCD

✓ 19.25 — 4.30 E R.R.

✓ 14.37 — 9.20 Inv C.D.

✓ 16.92 — 6.65 Top Struct Opening

✓ 16.87 — 6.70 Top Struct. Opening

✓ 14.32 — 9.25 Inv C.D.

✓ 16.85 — 6.70 8 N. B-rm

✓ 15.92 — 7.65 N. TCD

✓ 14.17 — 9.40 Inv E C.D.

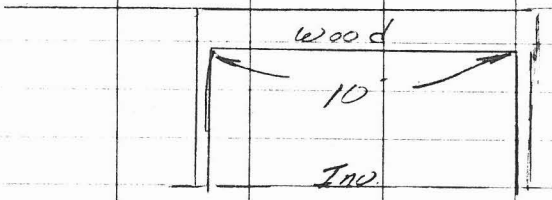
✓ 15.17 — 8.90 S. TCD

✓ 17.15 — 6.40 8 S. B-rm

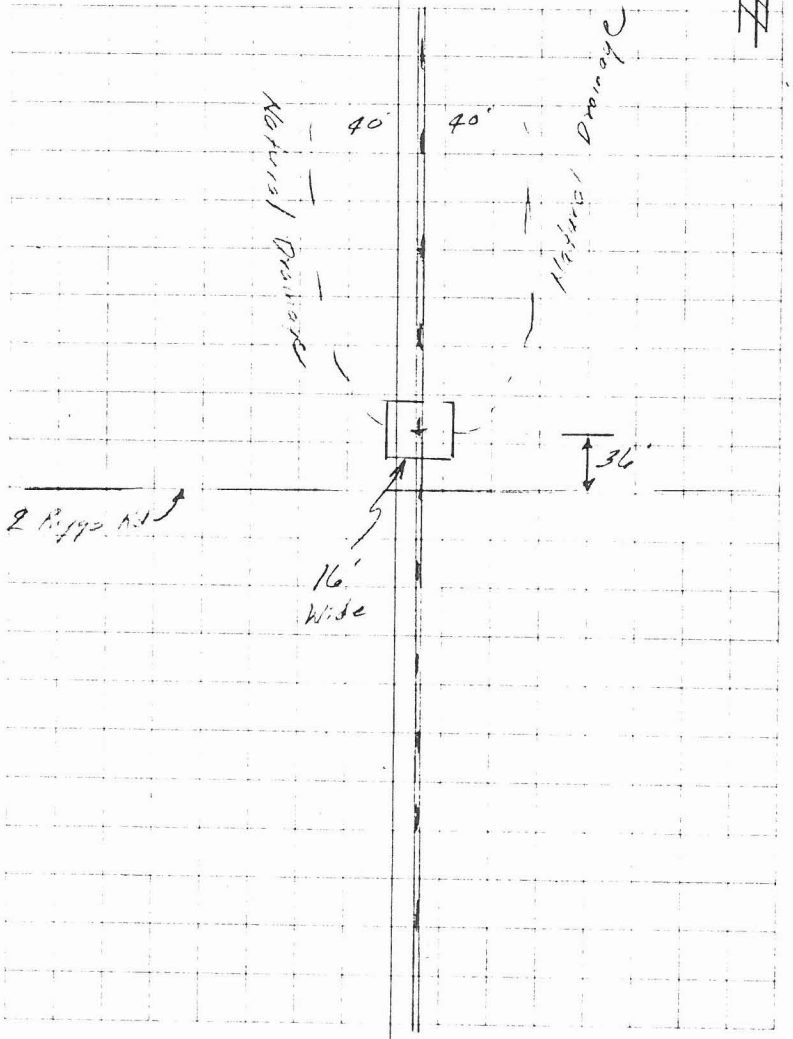
MCFCD

Flood Control Study -
SP Spur Line

11/30/87



R.R. Structure



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	TO	DATE
DELIVERED		

MCFCD | Flood Control Study.
SP Spur Line (see Pg 22)

11/30/87

3.35
24

TBM #HC-62	3.85	19.84 ✓	12/5/99	

PK – ℄ Right Rd – 150'± W of R.R.
11.1 ✓
8.70
Ground

E. of R.R – 50' N. of Structure

17.8 ✓
2.05
℄ R.R

11.9 ✓
7.90
Inv

15.4 ✓
4.30
Top Bridge opening

E. End Bridge

NOTE'S	BY	DATE
CHECKED	LT	12/8/87
COPIED		
	TO	DATE
DELIVERED		

15.4 ✓
4.35
Top Bridge opening

11.8 ✓
8.0
Inv

W. End Bridge

10.1 ✓
9.35
Ground

W. of R.R – 50' S. of Structure

TBM #HC-62		3.85	15.99 ✓	<15.99>

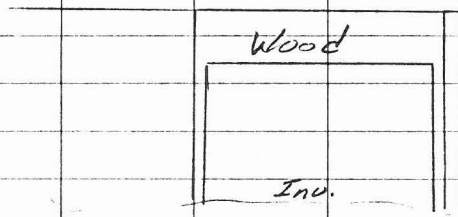
PK – Loop Return

MCFCD Flood Control Study—

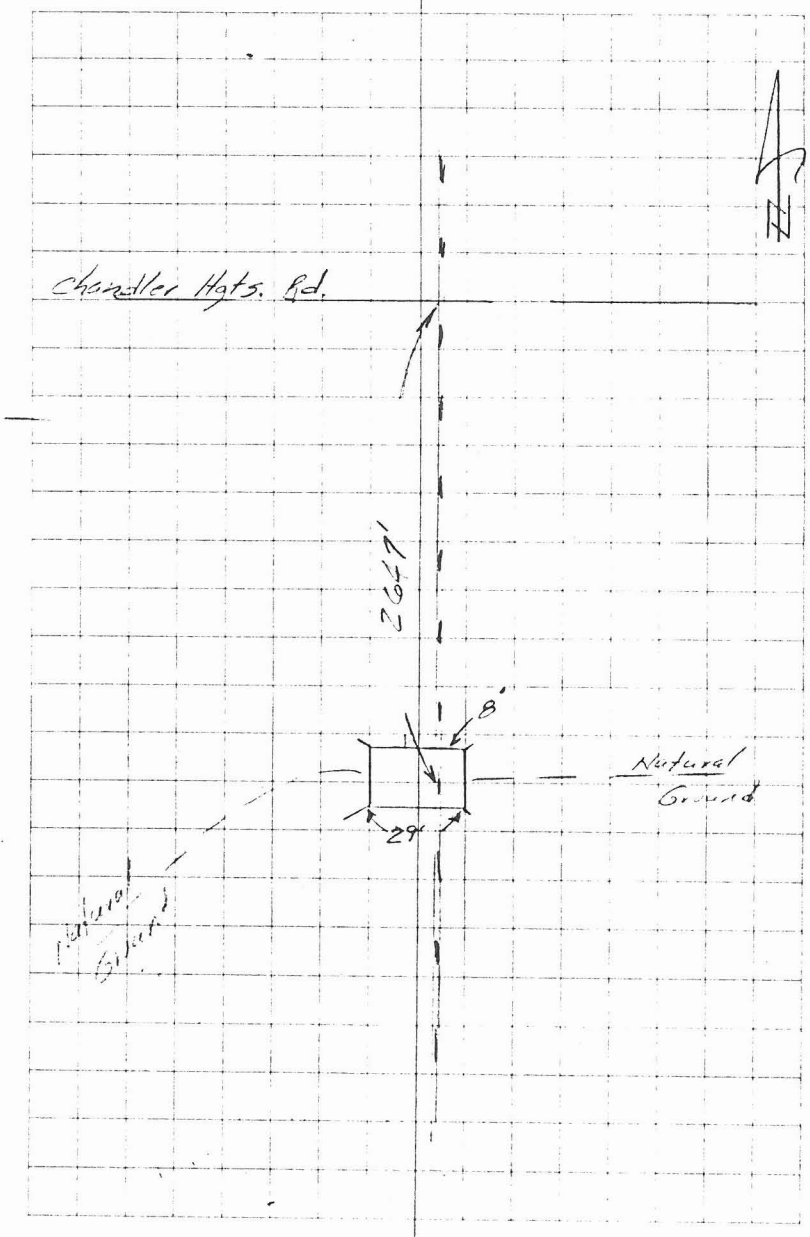
SP Spur Line

11/30/87

8-5
2-6



R.R. Bridge



NOTE'S	BY	DATE
CHECKED	LT	12.9.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD — Flood Control Study — SP Sparline — (See Pg 26)

11/30/97

TBM #7-57	4.06	18.16 ✓		12 14.10

CPS - Power Pole - W. side R.R. - 35 N. of R.R. Bridge

12.45 ✓
5.70
Ground

50' E. of Railroad

11.65 ✓
1.50
E
R.R.

12.3 ✓
5.85
Inv

14.66 ✓
3.50
Top of Bridge opening

E. Edge Bridge

14.68 ✓
3.48
Top Brdg. Opening

12.2 ✓
5.95
Inv

W. Edge Bridge

NOTE'S	BY	DATE
CHECKED	LT	12.9.97
COPIED		
	TO	DATE
DELIVERED		

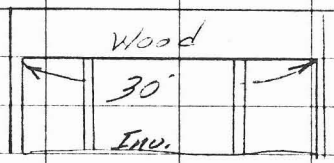
12.05 ✓
6.10
Ground

50' W. of R.R.

TBM #7-57		4.06	14.10 ✓	(14.13)

CPS - Loop Return

MCFCD Flood Control Study — SP Spur Line

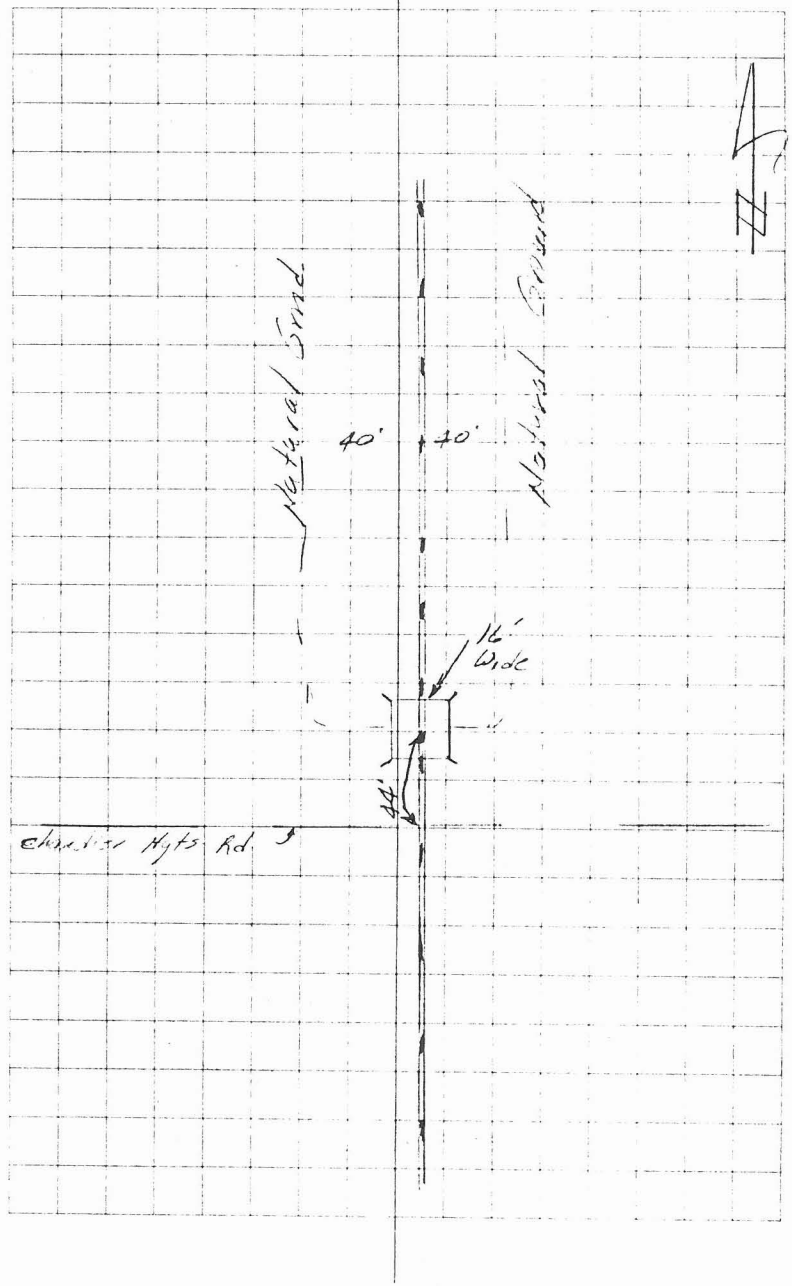


R.R. Bridge

NOTE'S	BY	DATE
CHECKED	LT	12.9.97
COPIED		
	TO	DATE
DELIVERED		

H/30, 37

35/30



MCFCD — Flood Control Study —

SP Spur Line (see Pg 30)

TBM #RO-44 2.59 20.77 ✓ 12.18.13

E. Side RR - 50' N. of Bridge

E. Edge Bridge

NOTE'S	BY	DATE
CHECKED	LT	12.9.87
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	TO	DATE
DELIVERED		

W. Edge Bridge

W. Side R.R. - 50' N. of Bridge

TBM #RO-44 2.59 18.18 ✓ (18.13)

11/30/87

325/32

PK FS - Int. Chandler Hgts. Rd. & R.R.

✓ 15.5 — 5.25 Ground

✓ 17.85 — 2.93 @ R.R.

✓ 14.0 — 6.75 Inv.

✓ 15.52 — 5.25 Top Bridge Opening

✓ 15.47 — 5.30 Top Bridge Opening

✓ 13.15 — 7.0 Inv.

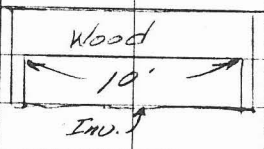
✓ 15.2 — 5.55 Ground

PK FS - Loop Return

MCFCD

Flood Control Study

SP Spur Line

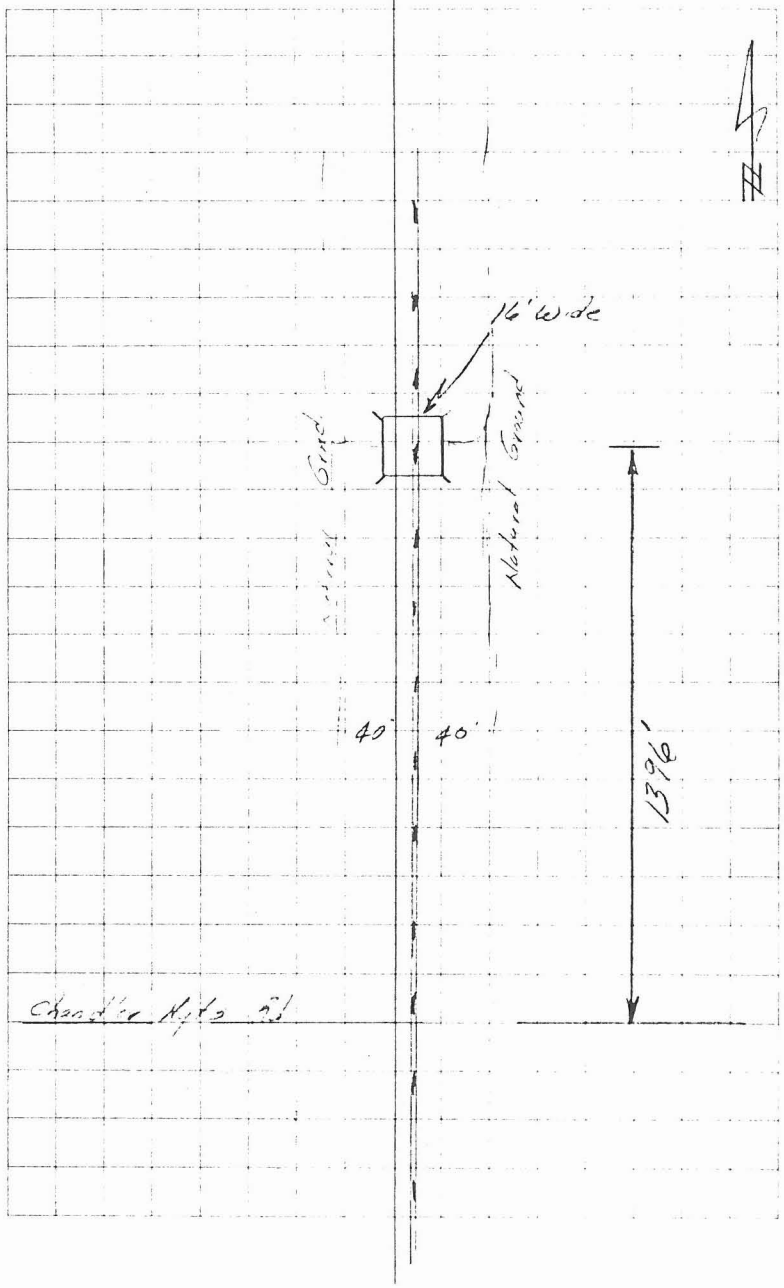


R.R. Bridge
(Almost filled-in)

NOTE'S	BY	DATE
CHECKED	LT	12.9.87
COPIED		
	TO	DATE
DELIVERED		

11/30/37

375
37



MCFCD Flood Control Study -
SP Spur Line (see Pg 34)

TBM* 7-64 3.72 20.45 ✓ 12/6.73
↑

E. Side of R.R. - 50' N.E.S. of Bridge

E. Edge Bridge

W. Edge Bridge

NOTE'S	BY	DATE
CHECKED	LT	12.9.87
COPIED		
	TO	DATE
DELIVERED		

W. Side of R.R. - 50' N.E.S. of Bridge

TBM* 7-64 3.72 16.73 ✓ (16.73)

CPS - Loop Return

11/30/87

CPS Power Pole - W. Side R.R. - 1500± N. of Chandler Hgts Rd

✓ 14.8
5.60
Ground
50' N.

✓ 14.8
5.65
Ground
50' S.

✓ 18.7
1.75
Ø
R.R.

✓ 15.1
4.75
Inv.

✓ 16.3
4.15
Top
Bridge
Opening

✓ 16.9
3.55
Top
Bridge
Opening

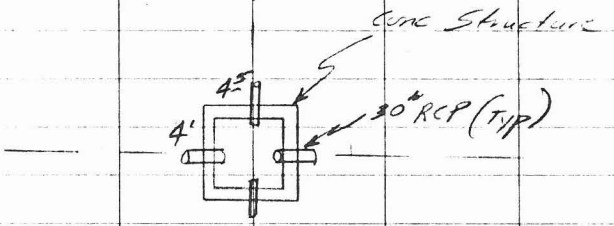
✓ 15.1
4.75
Inv.

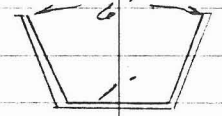
✓ 15.4
5.05
Ground
50'N

✓ 14.8
5.60
Ground
50' S.

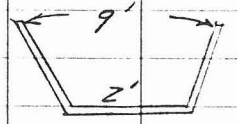
MCFCD

Flood Control Study
SP Spur Line

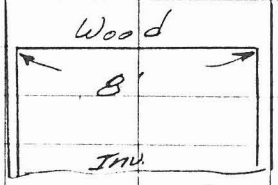




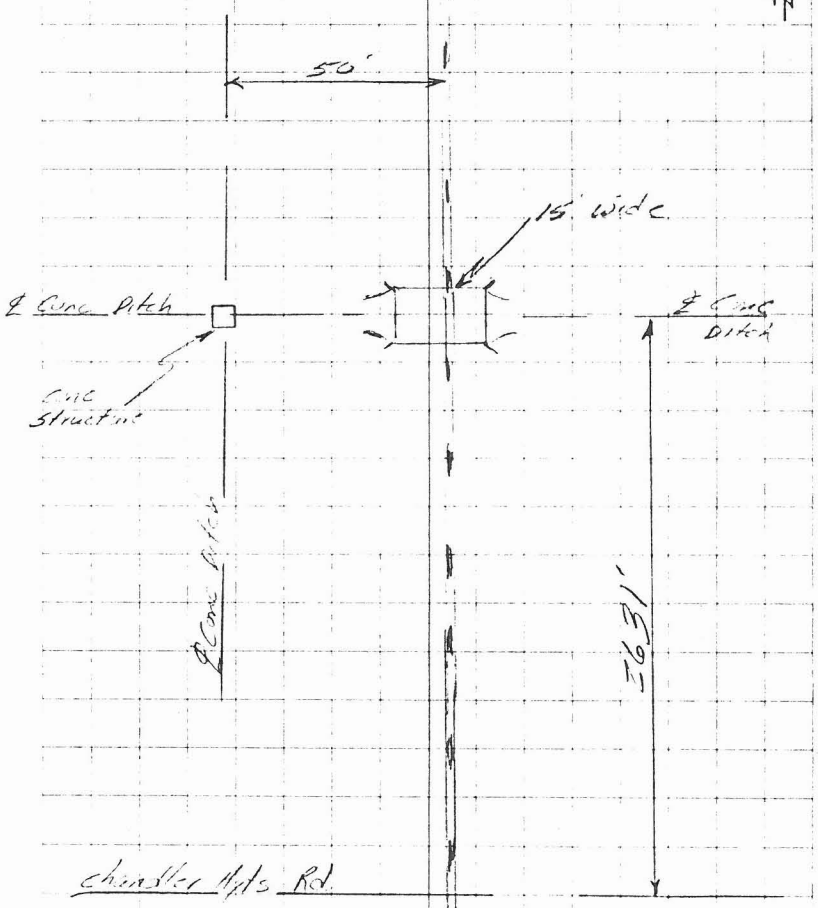
Typical X-Sect.
Conc Ditch to E.



Typical X-Sect.
Conc Ditch to W.



R.R. Bridge



11/30/87

ACFCD	Flood Control Study - SP Spur Line (See Pg 33)			
TBM #7-66	4.10	20.65 ✓		1216.55
50 E. of	R.R.			
E. Edge	Bridge			
W. Edge	Bridge			
50' W. of	R.R.			
TBM #7-66		4.10	16.55 ✓	(16.55)

NOTE'S	BY	DATE
CHECKED	LT	12.9.87
COPIED		
	TO	DATE
DELIVERED		

CPS - B & L - W. of R.R. - 3000± N. of Chandler Hy & Rd.

✓ 17.33 — 3.32 — N. TCD

✓ 14.88 — 5.77 — Inv & C.D.

✓ 17.46 — 3.19 — S. TCD

✓ 19.80 — 0.85 — & R.R.

✓ 15.11 — 5.54 — Inv.

✓ 17.50 — 3.15 — Top Brdg. Opening

✓ 17.51 — 3.14 — Top Brdg. Opening

✓ 15.15 — 5.50 — Inv.

✓ 17.73 — 2.92 — N. TCD

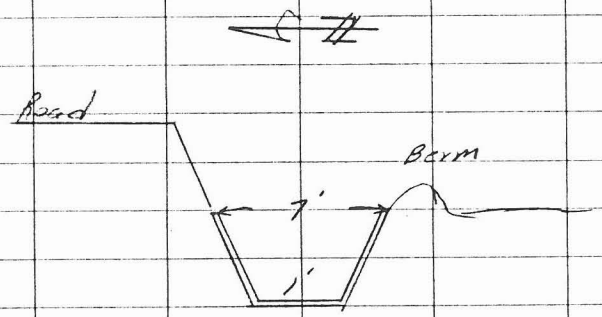
✓ 15.00 — 5.65 — Inv & C.D.

✓ 17.40 — 3.25 — S. TCD

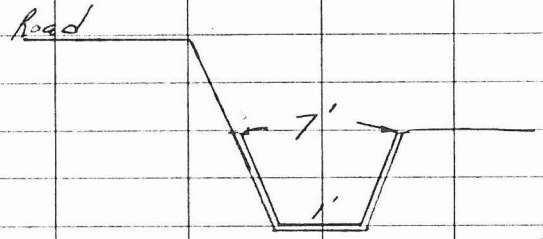
CPS: Loop Return

MCFCD

Flood Control Study – 54 Spur Line



Conc Ditch E. of R.R.



conc Ditch W. of R.R.

NOTE'S	BY	DATE
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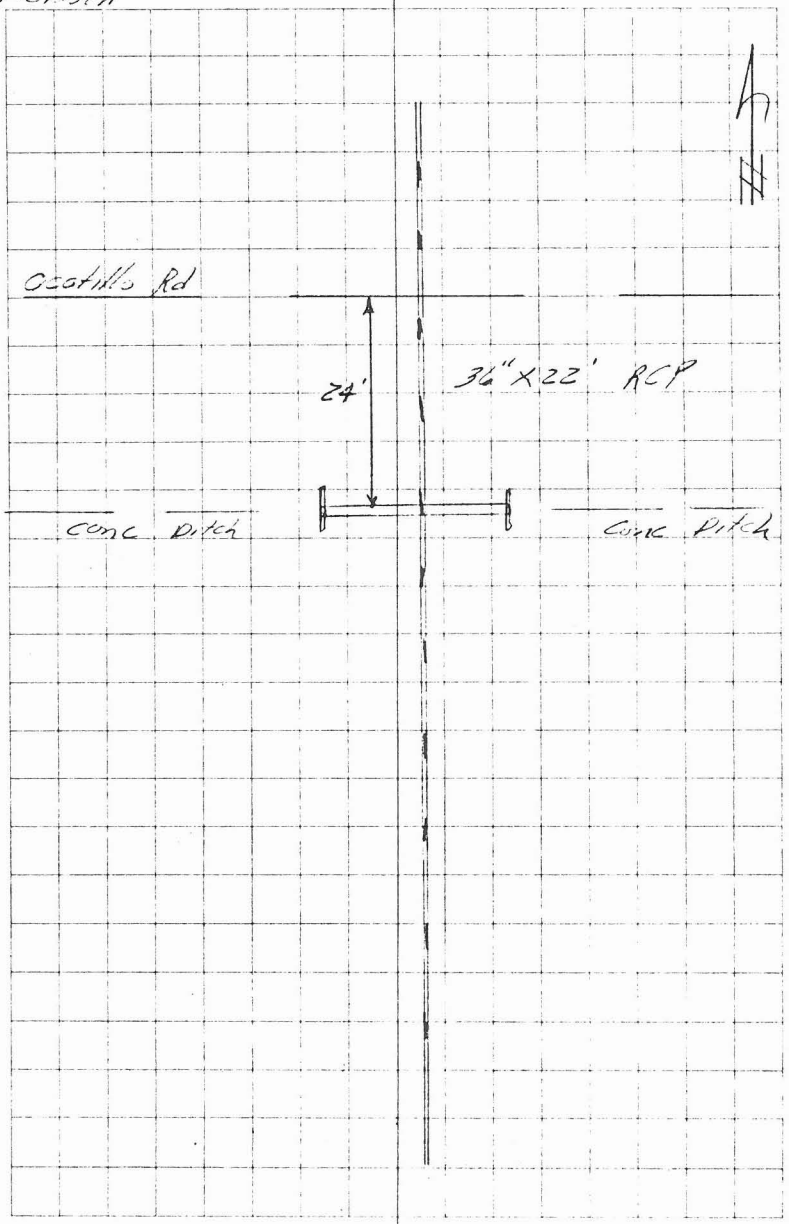
DELIVERED		

L. Van Dyke
B. McMurray
T. Craven

12/1/97

925/42



Flood Control Study –

MCFCD SP Spur Line (See fg 42)

12/1/87

TBM HC-57	4.88	26.40 ↑	1221.52
50' E. of R.R.			
E. End 36" RCP			
W. End 36" RCP			
50 W. of R.R.			
TBM T-70		6.65	1975 (1219.76)

NOTE'S	BY	DATE
CHECKED	LT	12-9-87
COPIED		
	TO	DATE
DELIVERED		

CPS & Ocotillo – 100± W. of R.R. (See Sht 3 of 7 Pg 74)

22.39	20.32	18.47	20.72	21.50
4.05	6.08	7.93	5.68	4.90
TN. Rd.	N. TCD	Inv. & CD	S. TCD	S.S. Bcrm
		23.30	17.26	21.57
		3.10	9.12	4.83
		& R.R.	Inv. RCP	H.W.L.
21.19	16.84			
5.21	9.56			
H.W.L.	Inv. RCP			
22.30	20.41	18.32	20.49	
4.10	5.99	8.08	5.91	
6 N Rd.	N. TCD	Inv. & C.D.	S. TCD	

CPS P. Pole – W. Side RR – 300± S. of Scottsdale Rd

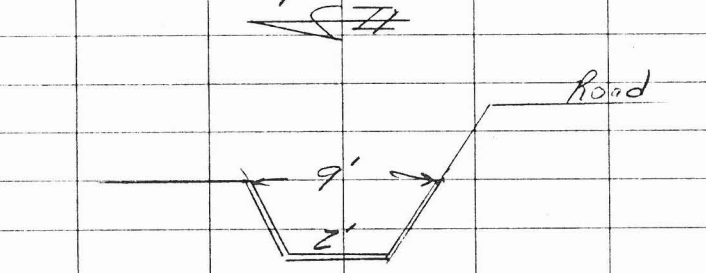
MCFCD

Flood Control Study -

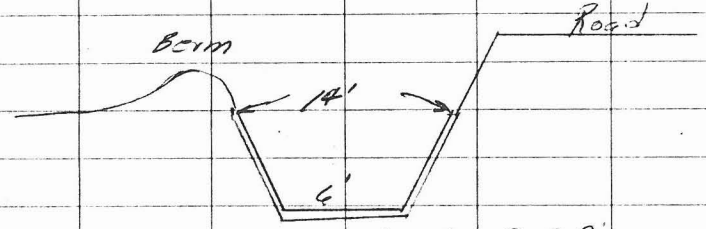
SP Spur Line

12/1/87

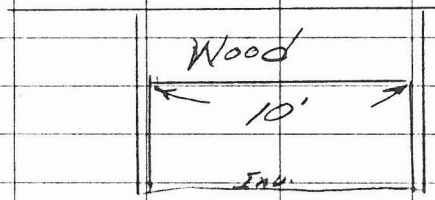
3-5
45



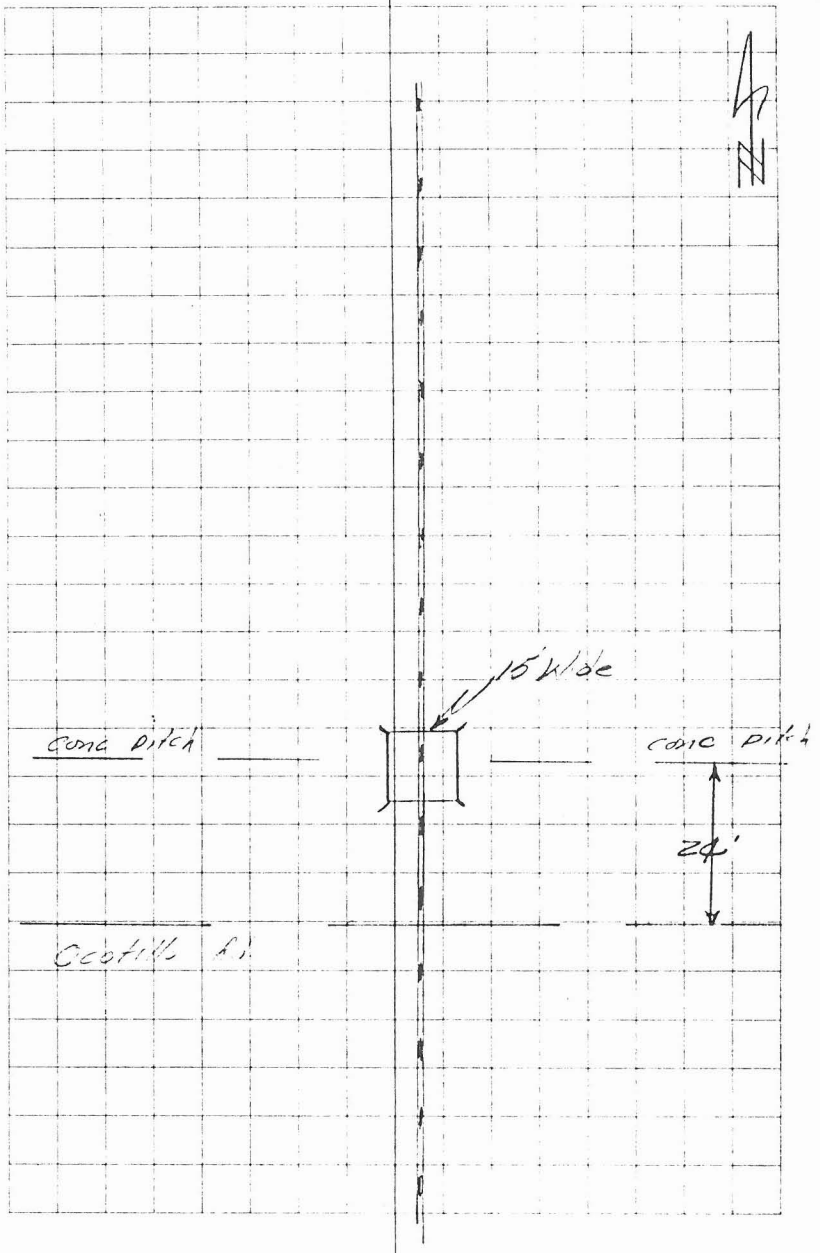
Conc Ditch E. of R.R.



Conc Ditch W. of R.R.



R.R. Bridge



MCFCD — Flood Control Study — SP Spur Line — (See Pg 46)

TBM #C-57	6.38	27.90 ✓ ↑		122.52
50' E. of R.R.				
E. End Bridge				
W. End Bridge				
50' W. of R.R.				
TBM #7-70		8.16	19.74 ✓	(19.76)

NOTE'S	BY	DATE
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15/1/87

225/43

CBS. ± Cent. of — 100.± W. of R.R. (See Bk 8.1 Pg 74)

✓ 21.01	✓ 18.47	✓ 20.96	✓ 22.9
6.89	9.73	6.94	5.0
N.	Inv.	S.	B.S.
TCD	± C.D.	TCD	Rd
	✓ 23.20	✓ 16.88	✓ 20.97
	4.70	11.02	6.93
	± R.R.	Inv	Top Bridge Opening

✓ 20.96	✓ 17.57	
6.94	10.33	
Top Bridge opening	Inv. (Filled w/Rock)	

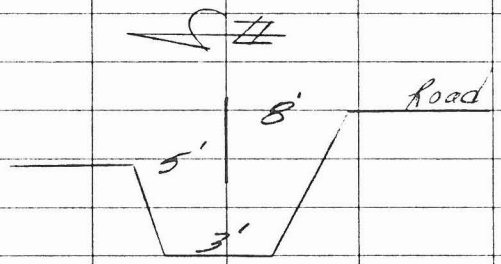
✓ 22.2	✓ 20.91	✓ 16.46	✓ 21.01	✓ 23.65
5.7	6.99	11.44	6.39	4.25
10'N	N.	Inv.	S.	11 S.
Beim	TCD	± C.D.	TCD	Rd

CBS. ± Cent. of W. side R.R. - 330± S. of Cent. Rd. Rd.

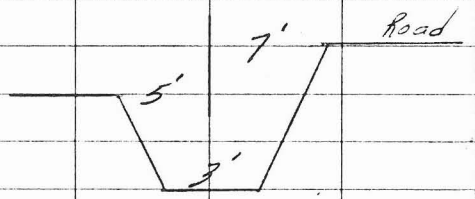
NCFCD

Flood Control Study —

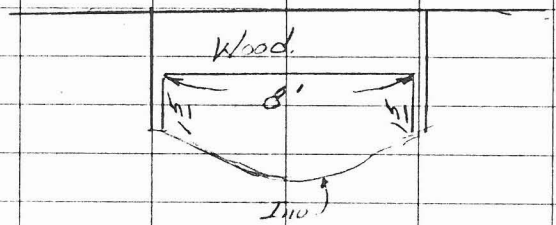
SP Spur Line —



Dirt Ditch E. of R.R.

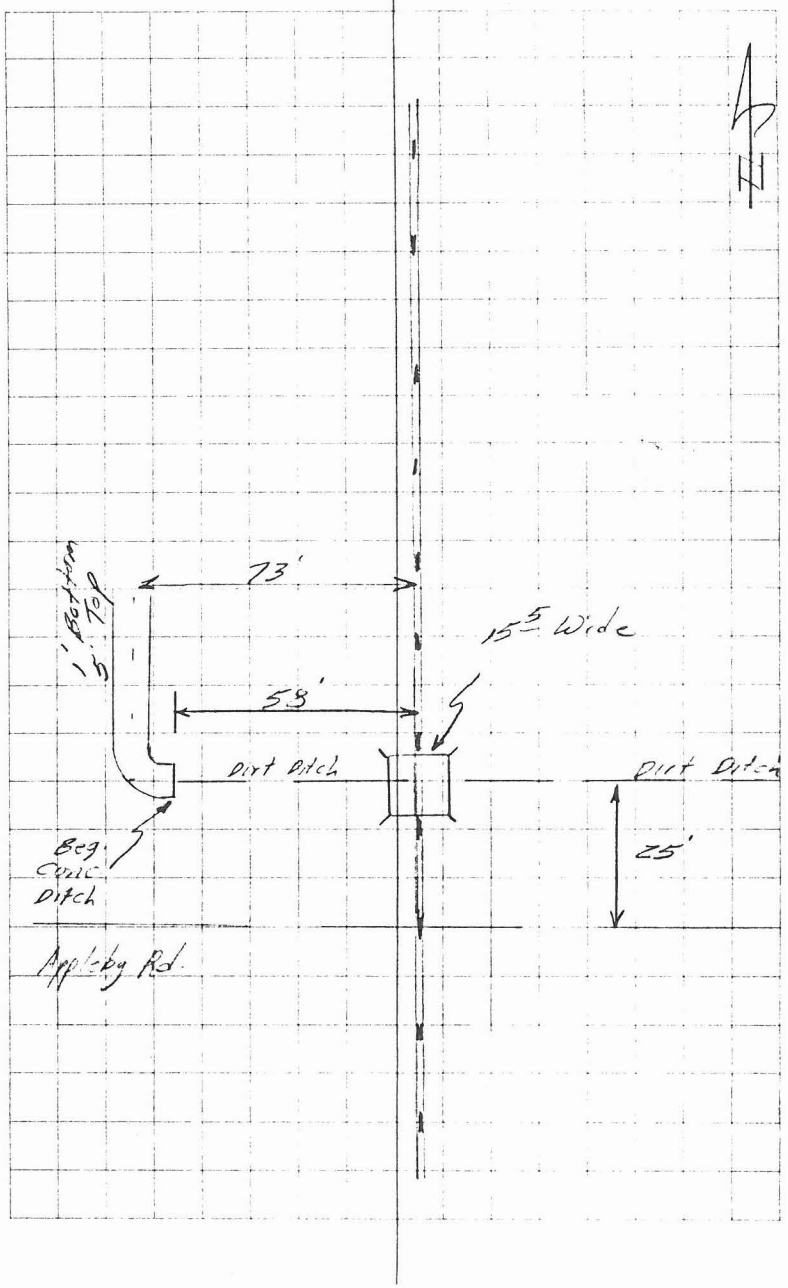


Dirt Ditch W. of R.R.



R.R. Bridge

13/1/37



MCFCD Flood Control Study —

SP Spur Line (see Pg 50)

TBM 7-74	7.92	26.90 ✓		1213.98
		↑		
50' E of R.R.				
E. Edge R.R. Bridge				
W. Edge R.R. Bridge				
50 W. of R.R.				
TBM 7-75		5.06	21.84 ✓	(21.35)

NOTE'S	BY	DATE
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12/1/87

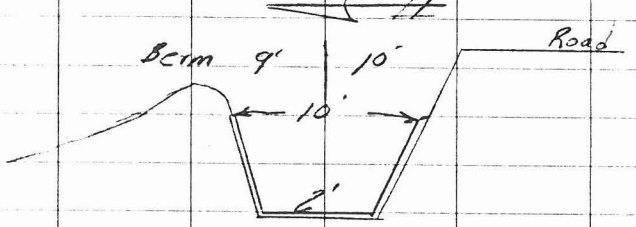
CPS R.R. — W Side of R.R. — 500± S. of Appleby Rd (S-6k 817 Pg 74)

✓ 19.2	✓ 16.25	✓ 21.25
7.7	10.65	5.65
N.	Inv.	S.
Top	Dirt	Top
Bank	Ditch	Bank
✓ 21.85	✓ 16.75	✓ 19.80
5.05	10.15	7.10
E	Inv.	Top
R.R.	Dirt	Bridge
	Ditch	Opening
✓ 19.65	✓ 16.65	
7.25	10.25	
Top	Inv.	
Bridge	Dirt	
opening	Ditch	
✓ 18.7	✓ 16.35	✓ 19.9
8.2	10.55	7.0
W.	Inv.	S.
Top	Dirt	Top
Bank	Ditch	Bank

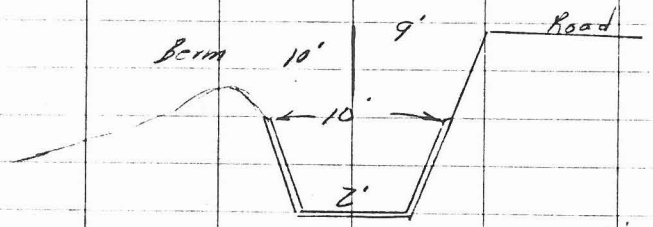
CPS - ℄ R.R. - 1200 ± N of Appleby Rd

MCFCD

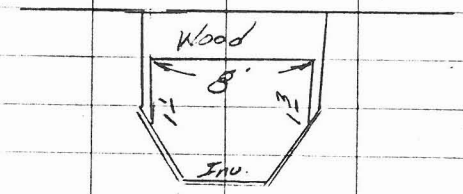
Site Survey —
SP Spur Line



conc Ditch E. of R.R.



conc Ditch W. of R.R.



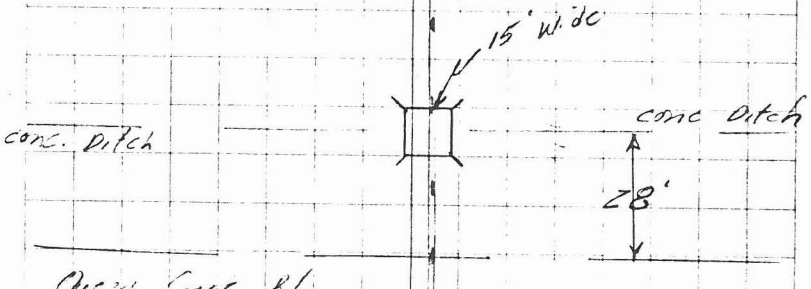
Bridge @ R.R.

NOTE'S	BY	DATE
CHECKED	LT	12.9.87
COPIED		
	TO	DATE
DELIVERED		

L. Jan Date
R.M. Tilney

12/3/87

335
54



MCFCD — Site Survey — SP Spur Line (See Pg 54)

TBM HC-52	3.65	22.41 ✓		1218.76
50' E. of R.R.				
E. Edge R.R. Bridge				
W. Edge R.R. Bridge				
50 W. of R.R.				
TBM 4-87		6.05	16.36 ✓	(1216.34)

NOTE'S	BY	DATE
CHECKED	LT	12.9.97
COPIED		
	TO	DATE
DELIVERED		

12/3/37

935/56

CPS - ℄ Queen Creek Rd - 50' W. of R.R.

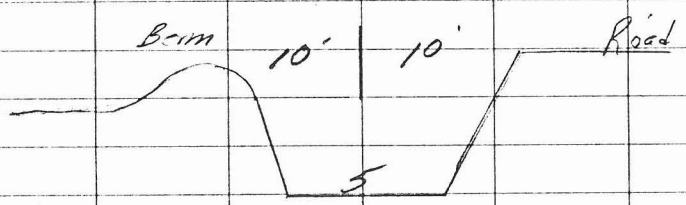
✓ 18.45	✓ 17.42	✓ 14.71	✓ 17.54	✓ 19.75
3.95 9 Berm	4.99 N. TCD	7.70 Inv. ℄ CD	4.37 S. TCD	2.45 10 Rd
		✓ 20.10	✓ 14.53	✓ 17.98
		2.30 ℄ R.R.	7.88 Inv. CD	4.43 Top Bridge opening
✓ 17.93	✓ 14.43			
4.48 Top Bridge opening	7.98 Inv. CD			
✓ 18.35	✓ 17.48	✓ 14.41	✓ 17.37	✓ 19.15
4.05 10 Berm	4.93 N. TCD	8.00 Inv ℄ CD	5.04 S. TCD	3.25 9 Road

CPS - P. Pole - W. Side R.R. - 200' N. of Queen Creek Rd (See Book 327, Pg 72)

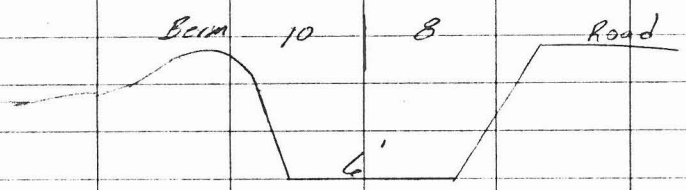
MCFCD

Site Survey —

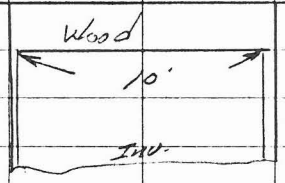
SP Spur Line



Dirt Ditch E. of R.R



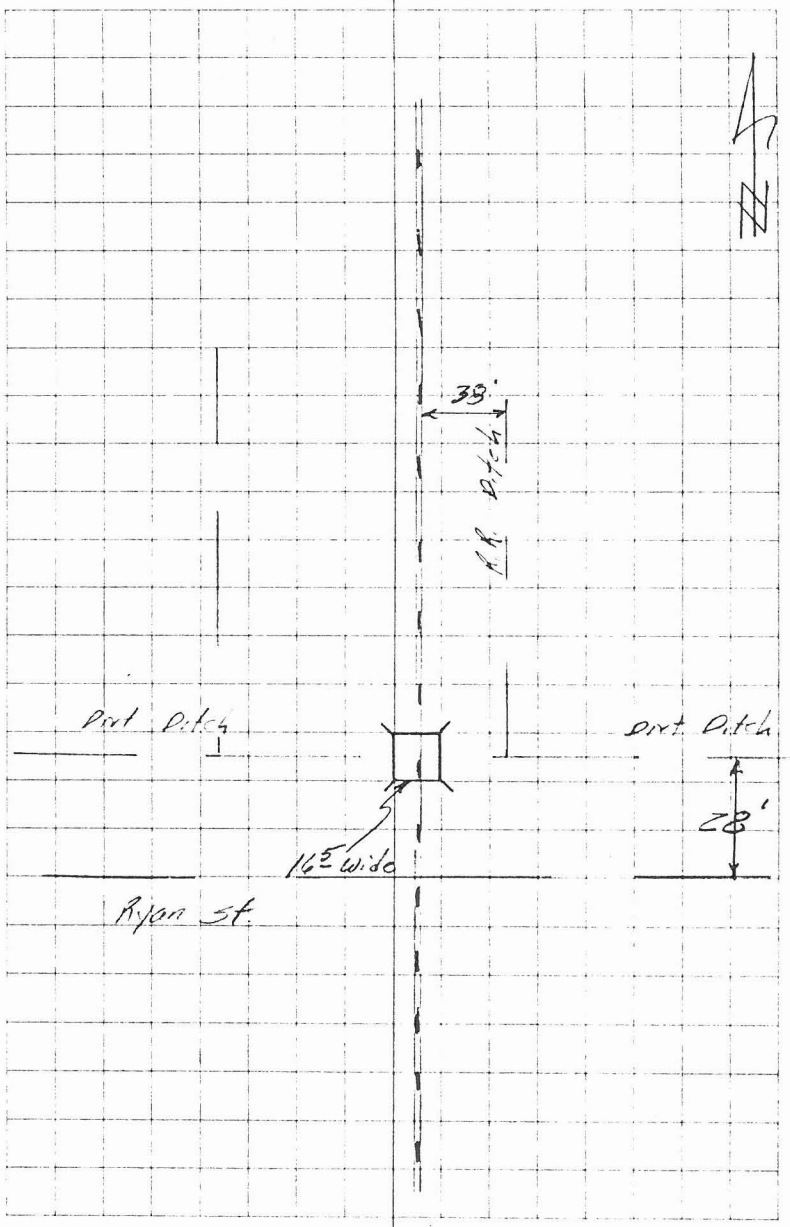
Dirt Ditch W. of R.R



R.R. Bridge

12/3/83

935
58



MCFCD — Site Survey — SP Spur Line (see Pg 58)

TBM #4-91	6.98	21.60 ✓		1214.62
50 E. of R.R.				
E Edge R.R. Bridge				
W. Edge R.R. Bridge				
50' W. of Bridge				
TBM #1-92			6.18	15.42 ✓ (1215.41)

12/3/87

9-5/60

CRS - P.I. Pole - W. side R.R. - 200± S. of Ryan St. (see Bk 507 Pg 74)

16	16	17.15
5.55	9.95	3.35
10 N.	Inv.	10' S.
Berm	℄	Road
	Dir. Ditch	
	18.45	11.7
	3.05	9.7
	℄	Inv.
	R.R.	

15.90
5.64
Top of Bridge opening

15.99
5.61
Top Bridge opening

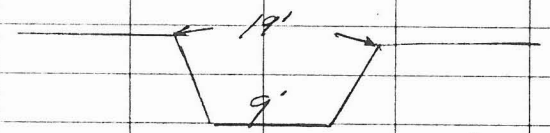
11.5
10.1
Inv.

17.9	11.45	11.2
3.7	10.15	4.4
10 N.	Inv.	9.5
Berm	℄	Road
	Dir. Ditch	

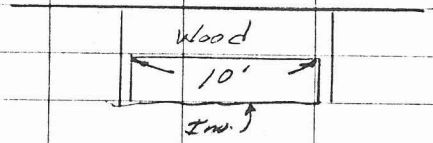
½" R.B. - 200± N. of Ryan St. - W. Edge Road - E side R.R.

1 MCFD

Site Survey —
SP Spur Line —



Dirt Ditch E. of
R.R. — (Run N/S)

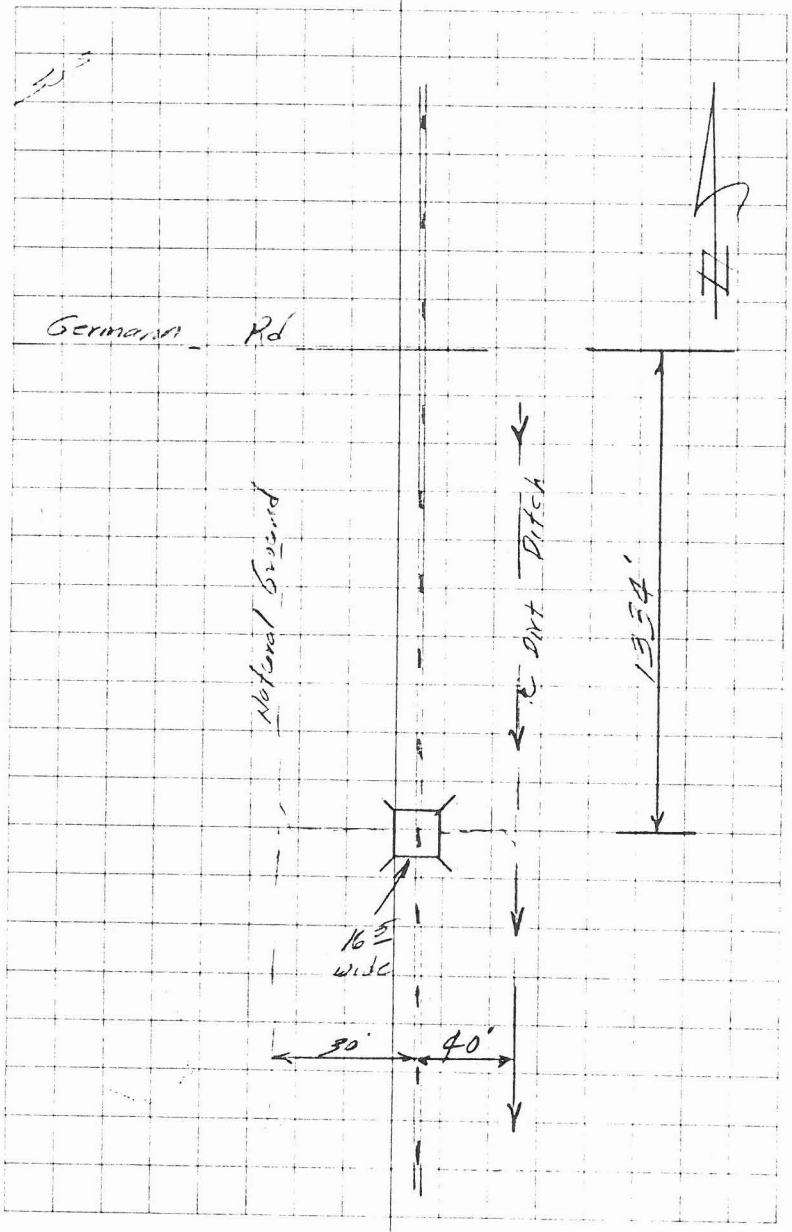


R.R. Bridge

NOTE'S	BY	DATE
CHECKED	LT	12.9.87
COPIED		
	TO	DATE
DELIVERED		

12/3/87

825
62



MCFCO — Site Survey — SP Spur Line (See Pg 62)

TBM 4-94	3.86	19.40 ✓ ↑			12[15.54
E. of R.R. – 50' N. of Bridge					
E. of R.R. – 50' S. of Bridge					
E. Edge R.R. Bridge					
W. Edge R.R. Bridge					
W. of R.R. – Natural Ground					
TBM 4-94			3.86	15.54 ✓	(15.55)

12/3/87

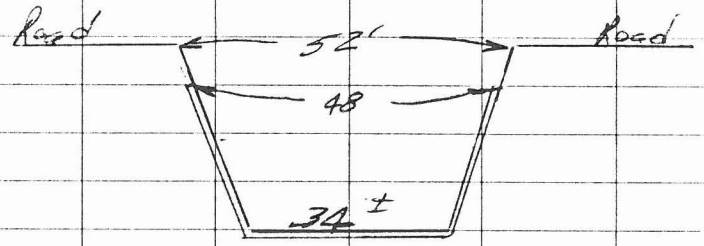
925
64

½" R.B. – W. Edge Rd – E. of R.R. (Bk 307 Pg 76)

13.1 ✓	11.45 ✓	15.5 ✓
4.3	7.95	3.9
9.5 W	Inv. Ditch	9.5 E
Top Bank		Top Bank
14.2 ✓	12.1 ✓	15.3 ✓
5.2	7.3	3.6
9.5 W	Inv. Dirt Pitch	9.5 E
Top Bank		Top Bank
	11.7 ✓	13.15 ✓
	1.70	5.65
	℄ R.R.	Inv.
		15.31 ✓
		4.03
		Top Bridge Opening
15.42 ✓	13.1 ✓	
3.93	5.7	
Top Bridge Opening	Inv.	
	13.86 ✓	13.95 ✓
	5.55	5.45
	50 N	50 S.

½" R.B. – Loop Return

MCFCD Site Survey — Consolidated Canal @ Freeway



Typical Section
Consolidated Canal

NOTE'S	BY	DATE
CHECKED	LT	12.9.87
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	TO	DATE
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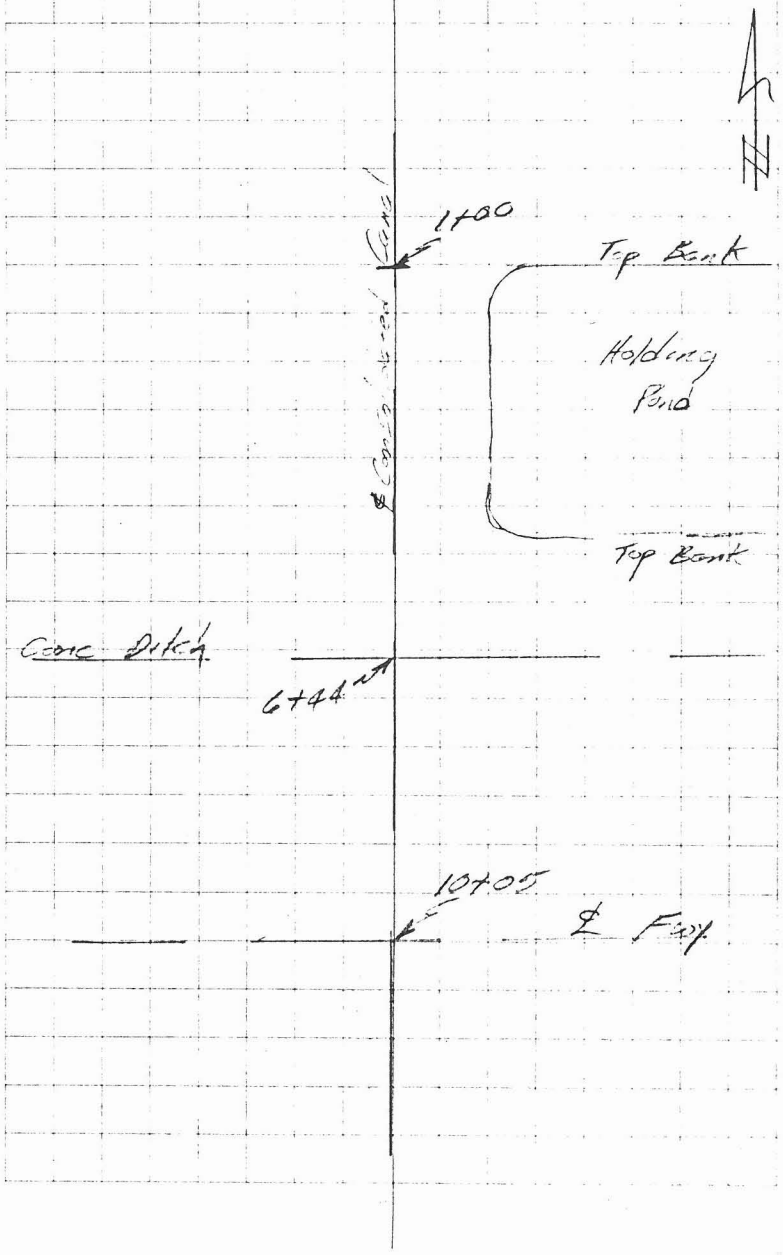
12/3/87

325
CL



MCFCD — Site Survey - Superstition Fwy & Consolidated Canal

TBM3-43	7.79	54.76 ↑		1246.97
TP#1	6.26	56.04 ↑	4.98	49.78

1+00

1+00

2+00

2+00

3+00

NOTE'S	BY	DATE
CHECKED	LT	12.9.87
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	TO	DATE
DELIVERED		

12/3/87

925
C3

Y & B - S. of Fwy - E. of Canal

HWS-3100-47' E

✓ 50.65	J 1 50.	J ✓ 41.95	J ✓ 49.45	J 3 48.
5.4	5.35	14.1	6.6	7.75
47E	26 E	INV.	26 W.	47 W
Edge	Top	C.D	Top	Edge
Acad	Bank		Bank	Ad
✓ 49.55			✓ 47.45	J ✓ 47.9 ✓ 48.6
6.5			8.6	8.15 7.85
76 E			150 W	100 W 64 W
Top			Fld	Fld Fld
Bank				
J ✓ 50.45	J ✓ 50.85	J ✓ 41.95	J 49.5	J 48.45
5.4	5.2	14.1	6.55	7.6
47E	26 E	INV	26 W	47 W
E.R	T.B.	C.D.	Top	Edge
			Bank	Ad
J 48.85			J ✓ 47.9	J 48.2 J 48.55
7.2			8.15	7.85 7.5
76 E			150	100 64 W
T.B			Fld	Fld Fld
✓ 48.75	J ✓ 50.45	J ✓ 50.55	J ✓ 41.95	✓ 49.85 ✓ 48.85
7.3	5.6	5.5	14.1	6.2 7.2
76 E	47 E	26 E	INV	25 W 47 W
T.B	E.R	T.B	C.D	T.B. E.R.

MCFCD

Ste Survey - Superelevation
Fay & Grosvenor Conn.

56.04

12/3/87

525
15

3+00

4+00

4+00

5+00

5+00

6+00

NOTE'S	BY	DATE
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	TO	DATE
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47.85 48.2 48.4
8.2 7.35 7.65
150W 100W 64W
Fld Fld Fld

48.55 50.16 50.9 41.9 49.45 48.85
7.5 5.45 5.15 14.15 6.6 7.2
7LE 47E 2LE Inv. 2CW 47W
Top Edge Top Top Edge
Bank Rd Bank Bank Rd

47.75 48.3 48.4
8.3 7.75 7.65
150W 100W 64W
Fld Fld Fld

48.7 50.4 50.75 41.9 49.45 48.85
7.35 5.65 5.3 14.15 6.6 7.2
7LE 47E 2LE Inv. 2CW 47W
T.B E.R T.B T.B E.R

47.85 48.25 48.1
8.2 7.8 7.95
150W 100W 64W
Fld Fld Fld

48.1 50.0 50.2 42.0 49.3 48.9
7.95 5.05 5.85 14.05 6.75 7.15
7LE 47E 2LE Inv. 2CW 47W
T.B E.R T.B T.B E.R

MCFCD

Site Survey - Superstition Fwy & Consolidated Canal

12/3/87

325/72

		56.04 ↑		
6+00				
7+00				
7+00				
8+00				
T.P. #2	5.44	54.89 ✓ ↑	6.59	49.45 ✓
9+00				

NOTE'S	BY	DATE
CHECKED	LT	12.9.87
COPIED		
	TO	DATE
DELIVERED		

			✓ 47.75	✓ 47.6	✓ 48.0
			8.3 150W Fld	8.45 100W Fld	8.05 64W Fld
✓ 49.7	✓ 50.05	✓ 41.9	✓ 49.7	✓ 49.25	✓ 47.85
6.35 47E Fc	6.0 26E Top Bank	14.35 Inv.	6.35 26W Top Bank	6.8 48W Edge Fld	8.2 54W Fc
			✓ 44.8	✓ 45.1	✓ 45.85
			11.25 200W Fld.	10.95 150W Fld	10.2 100W Fld
✓ 49.75	✓ 50.1	✓ 41.95	✓ 49.4	✓ 48.55	
6.3 47E Fc	5.95 26E T.S	14.1 Inv	6.65 26W T.B.	7.5 54W Fc	

Hub. 26W - 9+00

✓ 50.0	✓ 50.15	✓ 41.95	✓ 49.9	✓ 49.85
4.9 44E Bottom Slope	4.75 26E T.S	12.95 Inv.	5.0 26W T.S	5.05 48W Bottom Slope

MCFCD

Site Survey - Supplemental
Foy & Consolidated Canal

54.89
T

16+00

11+00

12+00

13+00

TBM 3-43 7.89 47.00 (46.97)

NOTE'S	BY	DATE
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COPIED		
	TO	DATE
DELIVERED		

12/9/87

525
74

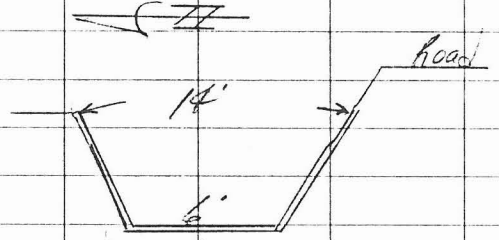
✓ 49.45 5.45 40E Bottom Slope	✓ 49.45 5.45 24E TCD	✓ 41.9 13.0 INV	✓ 49.05 5.35 24W TCV	✓ 49.55 5.4 39W Bottom Slope
✓ 49.1 5.2 42E B.S.	✓ 49.75 5.5 26E Top Bank	✓ 41.95 12.85 INV	✓ 49.1 5.2 26W Top Bank	✓ 49.65 5.25 45W B.S.
✓ 48.15 6.75 55E FC	✓ 49.45 5.45 26E T.B.	✓ 41.95 12.95 INV.	✓ 49.65 5.65 26W T.B.	✓ 49.35 5.65 47W FC
✓ 48.1 6.8 53E FC	✓ 49.35 5.55 26E T.B.	✓ 41.95 12.95 INV	✓ 49.5 5.7 26W T.B.	✓ 48.8 6.1 46W FC

½" R.B. - Loop Return

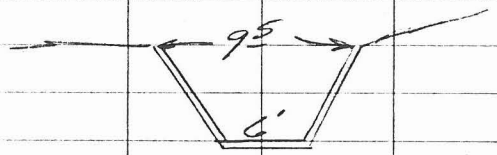
MCFCD

Site Survey -

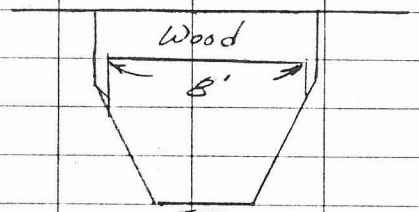
SP Spur Line



Conc Ditch - E. of R.R.



Conc Ditch W. of R.R.



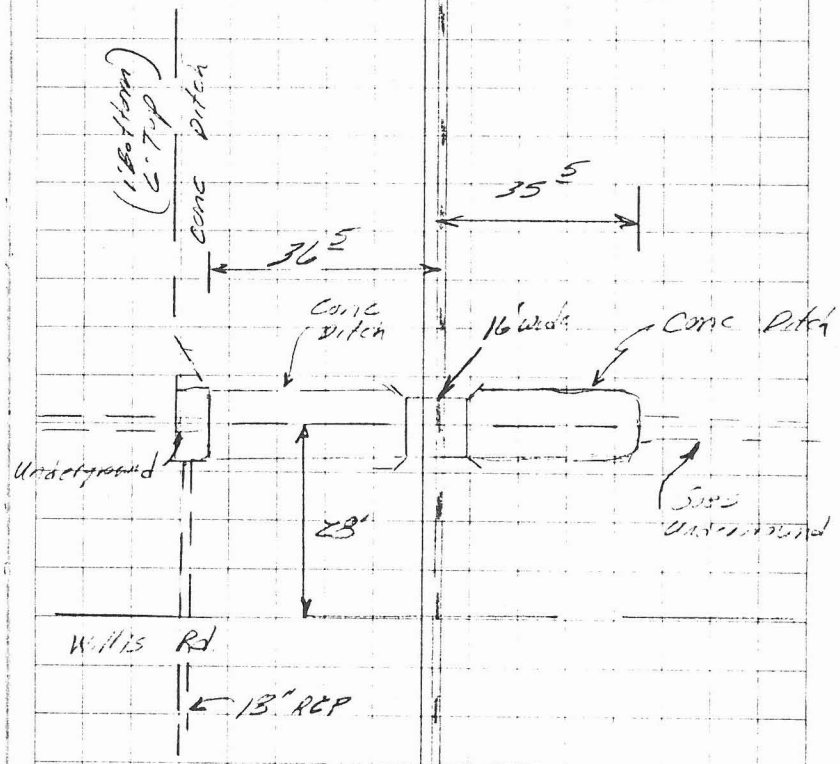
R.R. Bridge

12/9/81

825
76

Conc. Ditch

Flows E. to W.



MCFCD — Site Survey — SP Spur Line (see Pg 76)

TBM #HC-46	2.75	22.67 ✓		12/9.92
35' E. of R.R. - Beg Conc Ditch				
E. Edge R.R. Bridge				
W. Edge R.R. Bridge				
36' W. of RR - End Conc Ditch				
TBM #HC-46			2.75	(9.92)

35-E Wells Rd. - 50' W. of R.R.

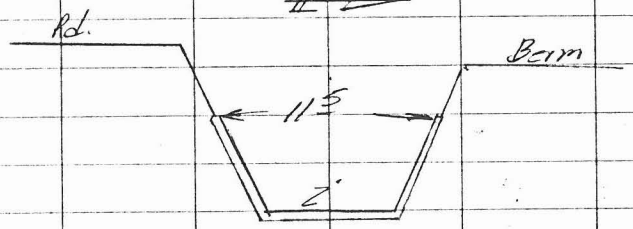
✓ 19.13	✓ 13.15	✓ 19.31
3.54 N. TCD	9.52 Inv. C.D.	3.30 S. TCD
	✓ 20.25	✓ 15.05 ✓ 1.90
	2.42 E R.R.	7.62 Inv. C.D. 4.77 Top Bridge opening
✓ 17.78	✓ 15.55	
4.87 Top Bridge Opening	7.12 Inv. C.D.	
✓ 19.19	✓ 15.34	✓ 19.43
3.43 N. TCD	7.31 Inv. C.D.	3.24 S. TCD

CPS Loop Return

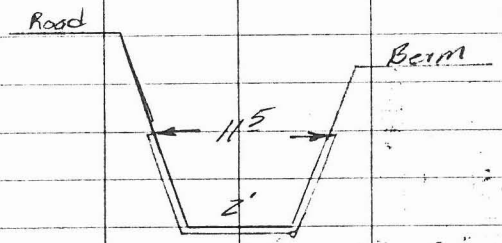
MCFCD

Site Survey –

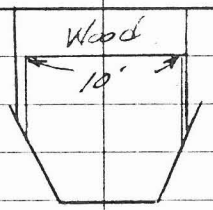
SP Spur Line



conc Ditch E. of R.R.



Conc. Ditch W. of R.R.



I.N.V. C.D.

R.R. Bridge

Li Van Dyke
R. McMurray
T. Crouch

12/16/87

825
80

NOTE'S	BY	DATE
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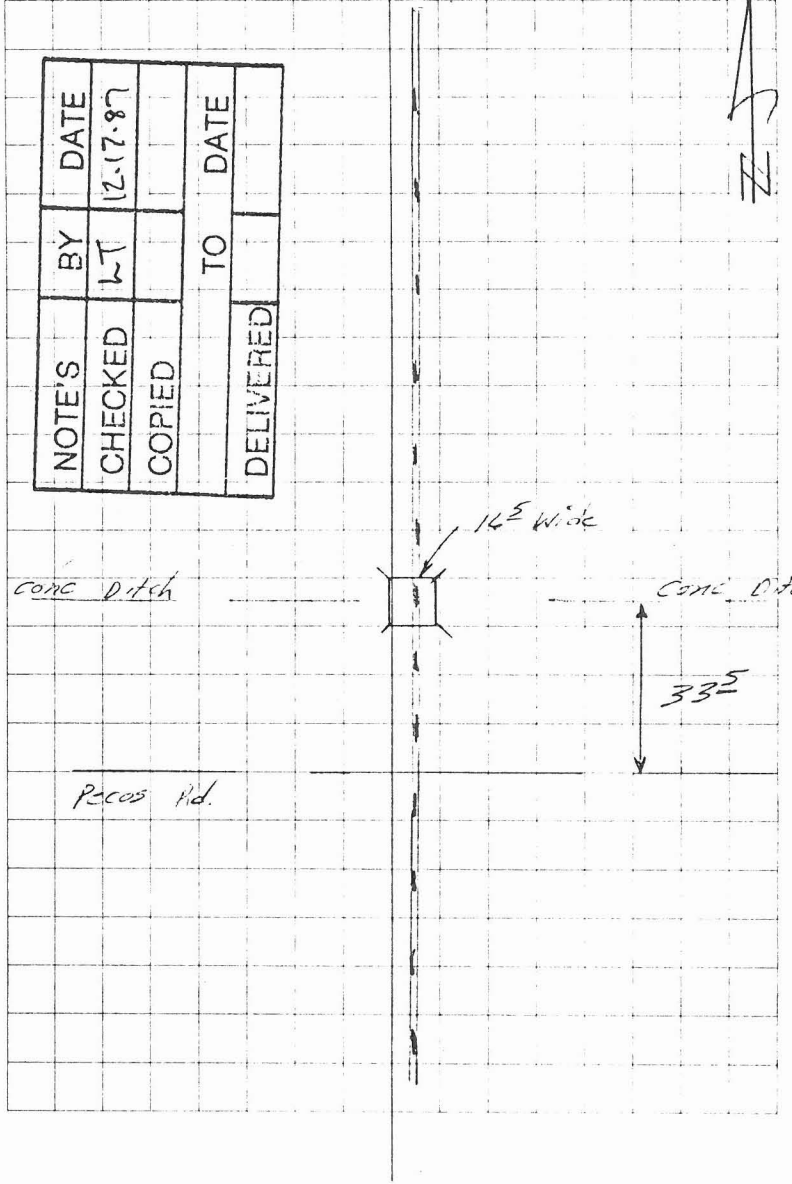

MCFCD — Site Survey — SP Spur Line (see Pg 83)

TBM 4-105	5.06	22.40			1217.34
50 E. of R.R.					
E. Edge of Bridge					
W. Edge of Bridge					
50' W. of R.R.					
TBM 4-105			5.06	17.34	(17.34)

NOTE'S	BY	DATE
CHECKED	LT	12-17-87
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12/16/87

325/82

½" R.B. - W. Edge Rd - E. of R.R. - 50 S. of Pecos Rd
(See BK 807 Pg 82)

19.1	17.16	13.38	17.15	21.2
3.3	5.24	9.02	5.25	1.2
11	N.	Inv	S.	13
Berm	TCD	CD	TCD	Rd

20.44	13.41	18.07
1.96	8.99	4.33
E	Inv	Top
R.R.	CD	Bridge Opening

18.11	13.43
4.29	8.97
Top	Inv.
Bridge	CD.
Opening.	

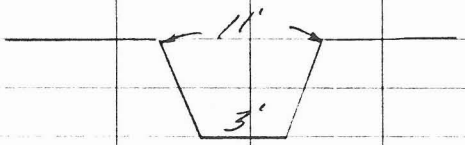
18.15	17.01	13.29	17.05	21.2
4.25	5.39	9.14	5.35	1.2
10	N.	Inv.	S.	14
Berm	TCD	CD	TCD	Rd

½" R.B. Loop Return

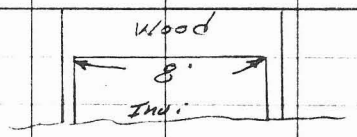
MCFCD

Site Survey

SP Spur Line



Dirt Ditch
W. Side R.R

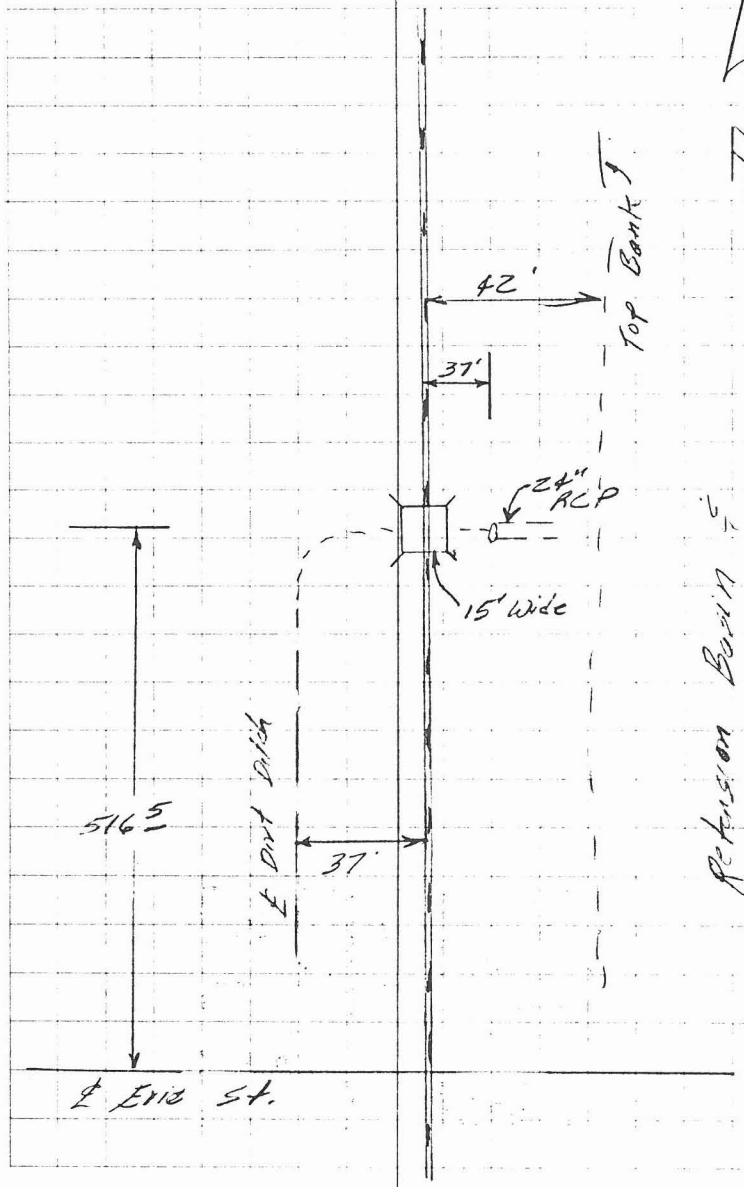


R.R. Bridge

NOTE'S	BY	DATE
CHECKED	LT	12.17.97
COPIED		
	TO	DATE
DELIVERED		

12/16/97

825/34



Retention Basin
City Park

MCFCD — Site Survey — 5th Spur Line (See Pg 84)

TBM #4-120	5.31	19.30		1213.99
		π		
Retension Basin – E of R.R.				
24" RCP – 37' E. of R.R.				
E Edge R.R. Bridge				
W Edge R.R. Bridge				
50' S. of R.R. Bridge – Dirt Ditch				
TBM #4-120		5.31	13.99	(13.99)

NOTE'S	BY	DATE	TO	DATE
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				DELIVERED

12/16/87

Cut 'A', Top Curb, Wide Delaware St. – 400 N. of Erie St (See BK 937 – Pg 92)

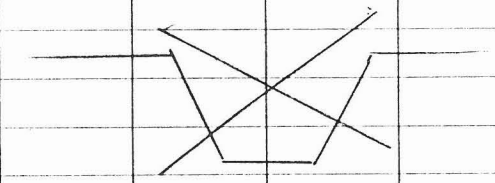
	10.95	14.55
	8.35	4.75
	Bottom	Top W. Bank
	12.55	
	6.75	
	Inv.	
11.68	13.8	15.60
1.72	5.5	3.70
&	Inv.	Top Bridge opening
R.R.		
	13.5	15.55
	5.8	3.75
	Inv.	Top Bridge opening
15.20	12.85	15.15
4.1	6.45	4.15
5.5	Inv.	5.5
E. Berm		W. Berm

Cut 'D' – Loop Return

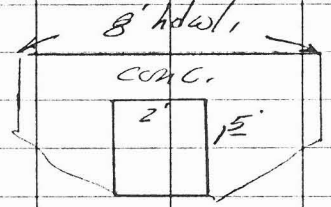
MCFCP

Site Survey

SP Spur Line



Dirt patch - E side of R R



NOTE'S	BY	DATE
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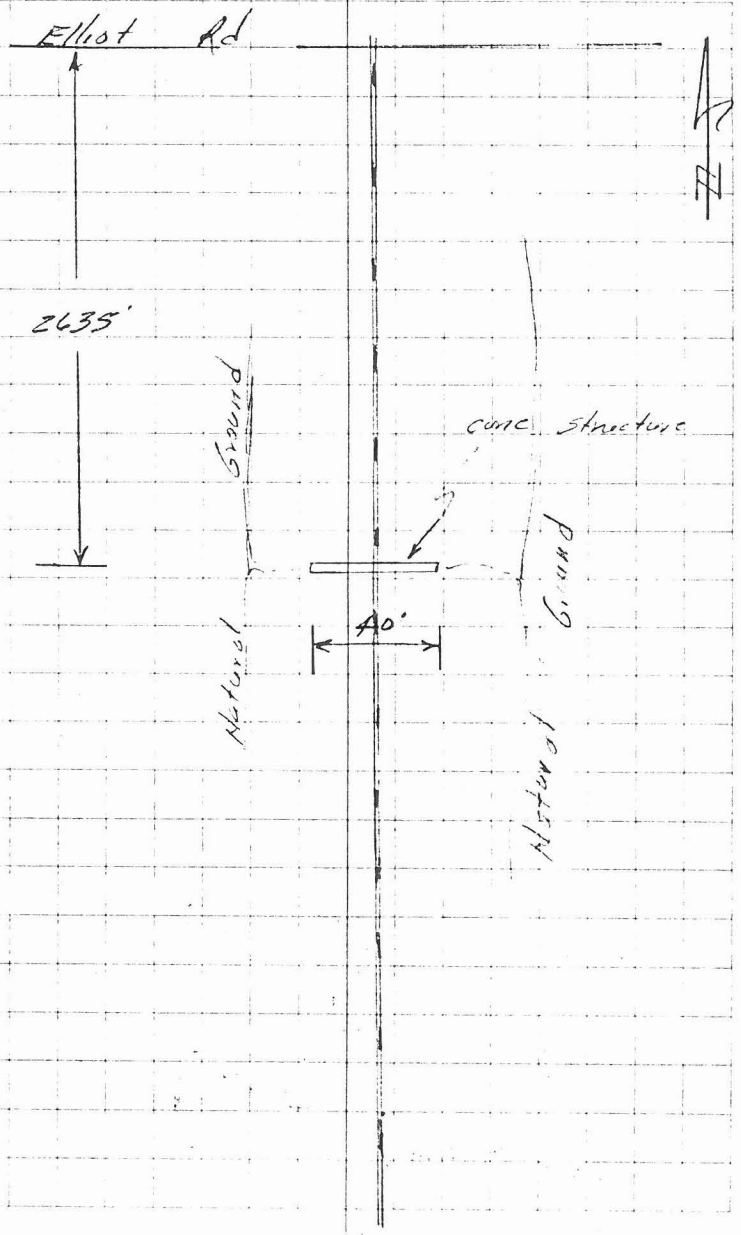
12/16/87



MCFCD — Site Survey — SP Spur Line (See Pg 83)

TBM 2-79	4.88	18.80 T	12/3.92
30' E. of R.R.			
E. End Conc Culvert			
W. End Conc Culvert			
25' W. of R.R.			
TBM #2-79	4.88	13.92	(13.92)

NOTE'S	BY	DATE
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	TO	DATE
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12/16/87

635/90

Cut 'D' on N Cor. of Hdwl. - 20' E. of R.R. @ Mid-Section Line (See Bk 302 Pg 142)

11.45 / 7.35 / 50' N

11.6 / 7.2 / 50' S

15.05 / 3.75 / E R.R.

10.85 / 7.95 / Inv.

13.92 / 4.85 / Hdwl.

10.28 / 8.52 / Inv.

13.87 / 4.93 / Hdwl.

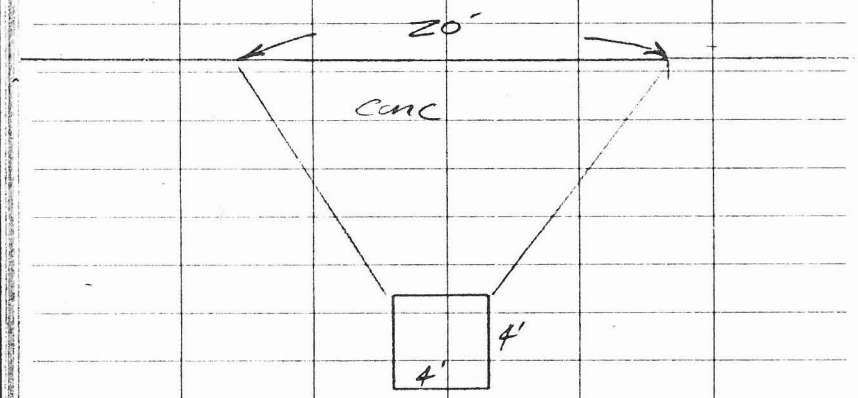
12.65 / 6.15 / 50' N

12.4 / 6.4 / 50' S

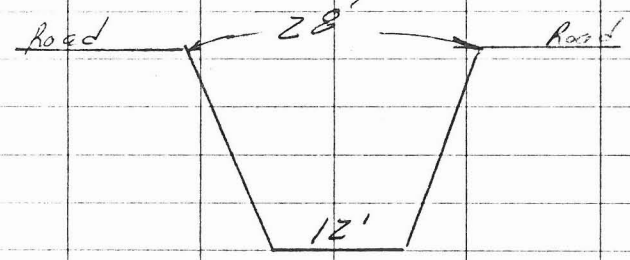
Cut 'D' - Loop Return

MCFCD

Site Survey
SP Spur Line



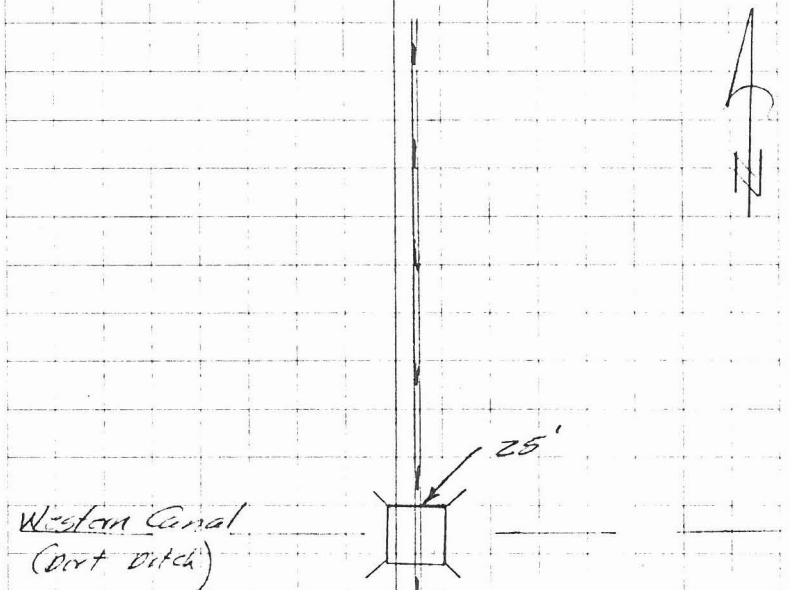
conc structure under R.R



Typical X-Section
Western Canal

12/16/87

835/92



NOTE'S	BY	DATE
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DELIVERED		

MCFCD Site Survey -
SP Spur Line (See Pg 72)

TBM HC-11	7.19	18.00 ↑	12.10.81
50' E of R.R			
4' E of R.R			
E. Edge Conc Structure			
W. Edge Conc Structure			
50' W. of R.R			
TBM HC-11		7.19	10.81 (10.81)

NOTE'S	BY	DATE
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COPIED		
	TO	DATE
DELIVERED		

12/16/87

325/94

½" I.B. - E. Side R.R. - S. Side Western Canal (See BK 852 - Pg. 62)

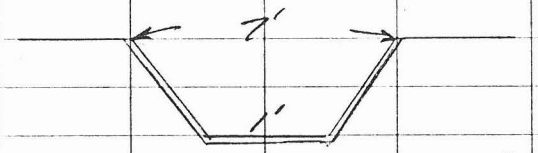
17.16	05.15	11.91
5.7	12.25	6.05
14	Inv. Dirt Ditch	14
Top N. Bank		Top S. Bank
	06.02	
	11.93	
	Inv. Conc.	
12.88	04.30	13.03
5.12	12.70	4.97
&	Inv. Conc	Hdwl
A.R		
	99.27	10.25
	18.73	7.75
	Inv. Conc.	Hdwl
10.16	03.8	11.5
7.4	14.20	6.5
14	Inv. Dirt Ditch	14
Top N. Bank		Top S. Bank

½" I.B. - Loop Return

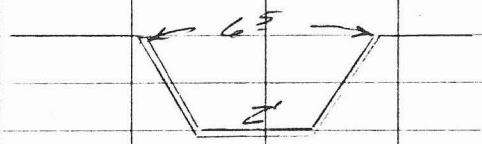
MCFCD

Site Survey

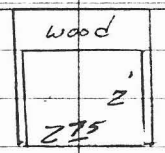
SP Spur Line



Conc Ditch E. of R.R.



Conc Ditch W. of R.R.

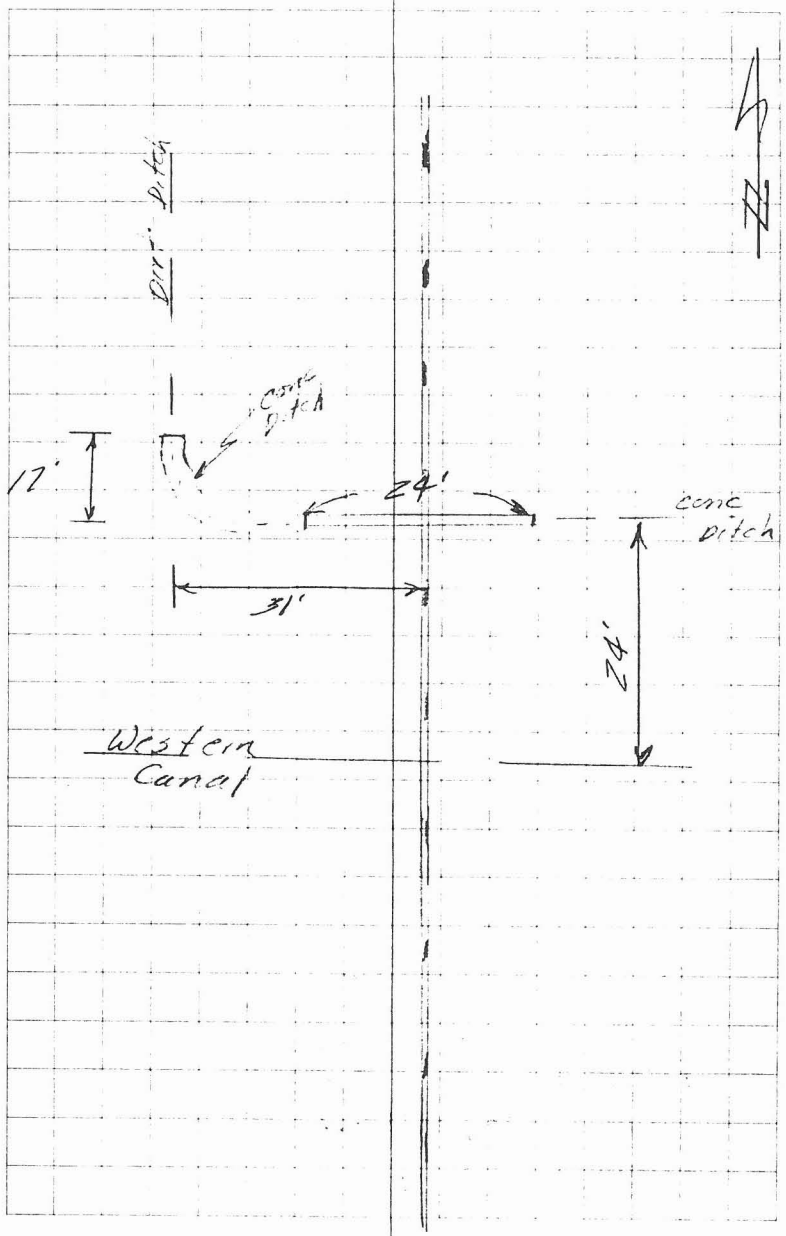


Structure Under R.R.

NOTE'S	BY	DATE
CHECKED	LT	12.17.87
COPIED		
	TO	DATE
DELIVERED		

12/14/87

825
7



MCFCD Site Survey - SP Spur Line (See SP 921

TBM HC-11	7.19	18.00 ↑		12|0.81
50' E. of R.R.				
E Edge Structure				
W. Edge Structure				
End Conc Ditch - W. of R.R.				
TBM HC-11		7.19	10.81	(10.31)

NOTE'S	BY	DATE
CHECKED	LT	12.17.87
COPIED		
	TO	DATE
DELIVERED		

12/17/87

825/78

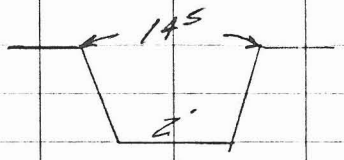
½" R.B. - E. Side R.R. & S. Side Western Cond. (See SK 502 & 621)

11.75	09.02	11.60
6.35	3.93	6.40
N. TCD	Inv.	S. TCD
12.72	08.80	11.60
5.23	9.20	6.40
E R.R.	Inv.	Hdwl.
	08.50	11.43
	9.50	6.57
	Inv.	Hdwl.
11.43	08.40	11.60
6.55	9.60	6.40
W. TCD	Inv.	E. TCD

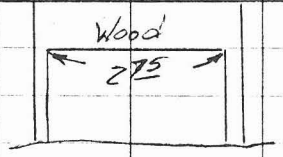
½" R.B. Loop Return

MCFCD

SITE SURVEY
SP SPUR LINE



Dirt Ditch E. of R.R.



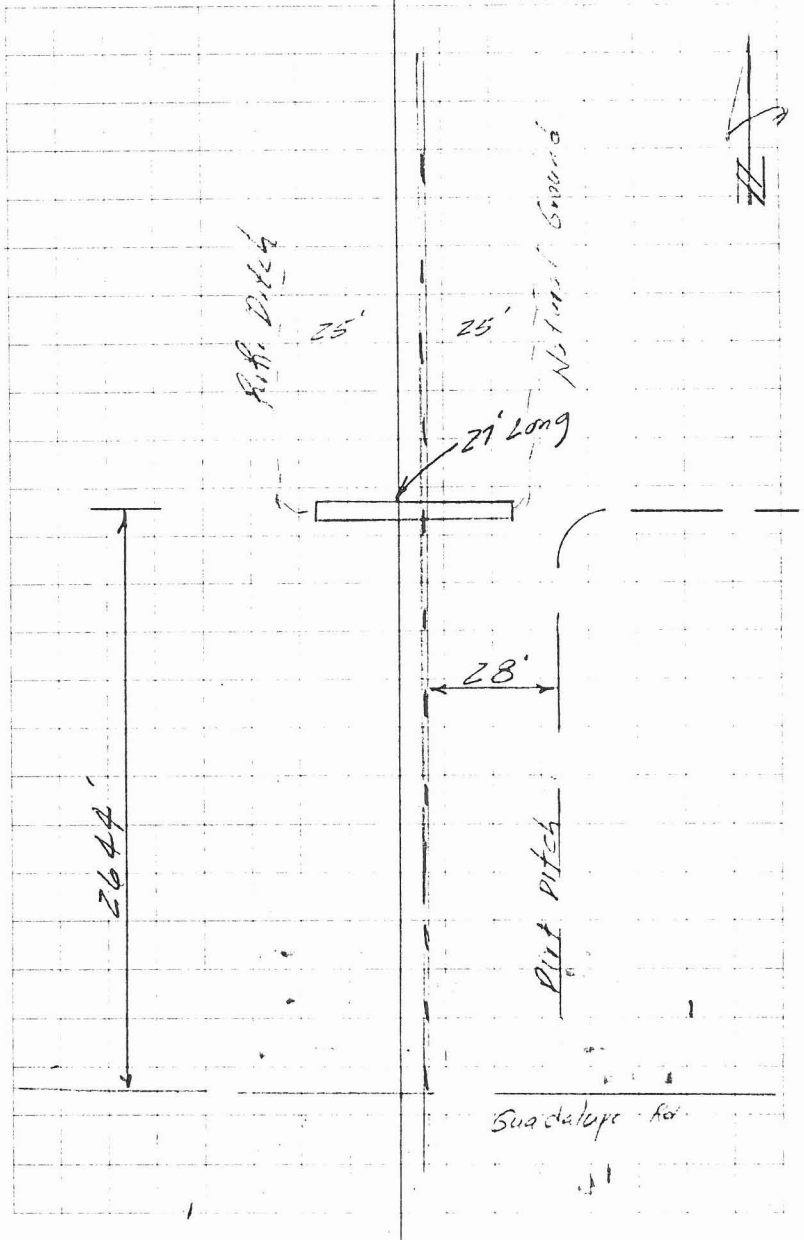
Wood Structure
Under R.R

NOTE'S	BY	DATE
CHECKED	LT	12.23.87
COPIED		
	TO	DATE
DELIVERED		

L. Van Dyke
T. Craven

12/18/87

32S
75a



MCFCD Site Survey 12/8/87

SP SPUR LINE (see Pg 103)

TBM HC-7 5.84 13.80 ✓ 1207.96

50' E. of R.R. - Dirt Ditch

Natural Ground - 50' N. of Structure

E. Edge Structure

W. Edge Structure

R.R. Ditch - 50' N. of Structure

TBM HC-7 5.84 07.96 ✓ (07.96)

NOTE'S	BY	DATE		TO	DATE
CHECKED	LT	12.13.87			
COPIED					
			DELIVERED		

½" R.B. - 40' W. of Guadalupe Rd - 2703 N. of R.R. (see BK 802 Pg 102)

09.2 ✓ 05.15 ✓ 09.1 ✓
4.6 8.65 4.7
N. Top Bank Inv. S. Top Bank

7.7 ✓
0
4.1
Ground

11.10 ✓ 01.55 ✓ 08.45 ✓
2.10 6.25 5.35
& Inv. Top of opening
R.R. Structure

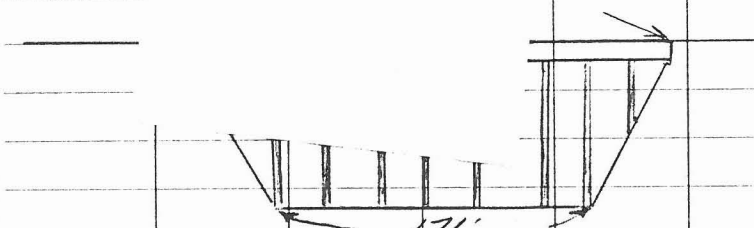
06.85 ✓ 06.10 ✓
6.95 5.70
Inv. Top Structure opening

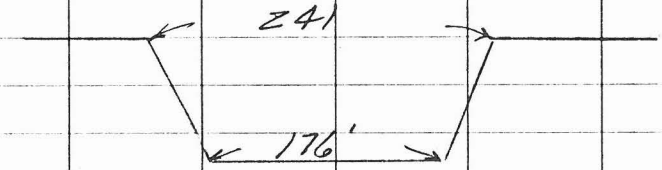
06.3 ✓
7.5
Ground

½" R.B. - Lost R. Turn

MCFCD Site Survey - SPRR

Croosiverblist



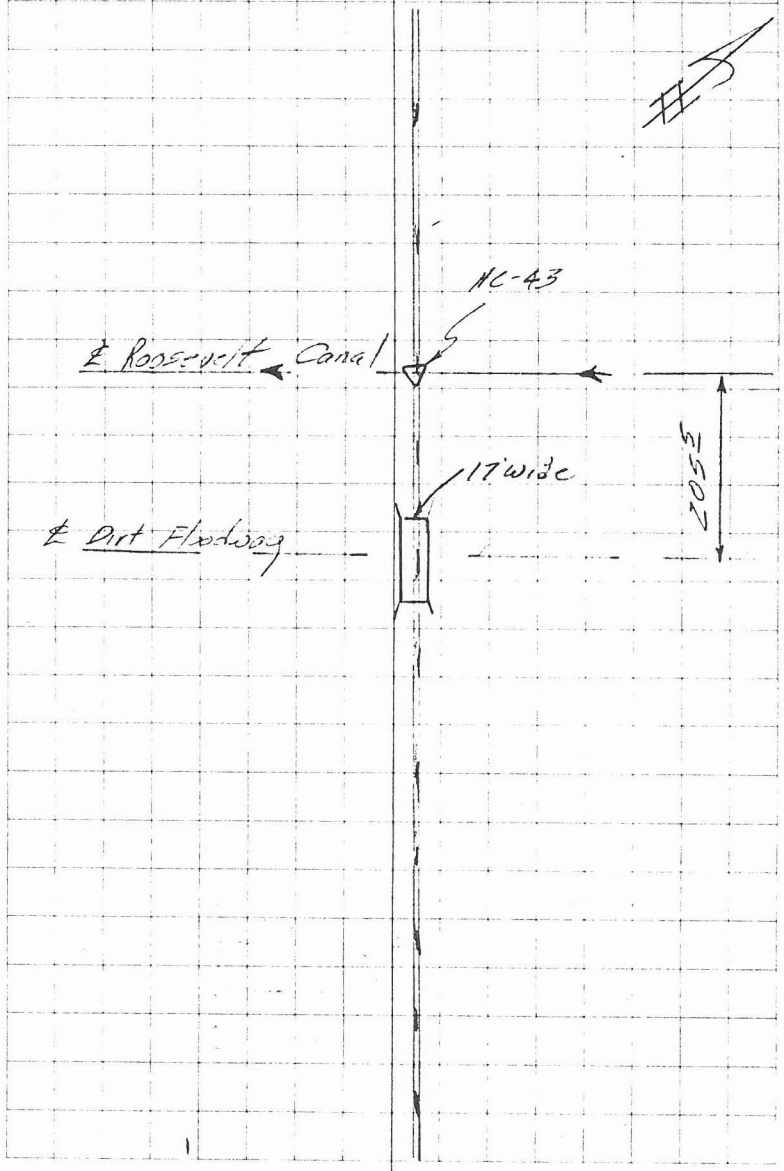


Typical Section
Dirt Floodway

NOTE'S	BY	DATE
CHECKED	WT	12.23.87
COPIED		
	TO	DATE
DELIVERED		

12/13/87

825/104



MCFCD — Site Survey — SPRR (see Pg 104)

TBM HC-43	3.21	26.05 ↑	1323.54
50' NE of R.R. Bridge			
R.R. Bridge			
50' SW of R.R. Bridge			
TBM HC-43		3.21	22.84 ✓ (22.84)

NOTE'S	BY	DATE
CHECKED	LT	12.23.87
COPIED		
	TO	DATE
DELIVERED		

12/18/3-

825/136

CRS- in E of Rittenhouse Rd E. SWCD Canal (see BK 8.12 - Pg 96)

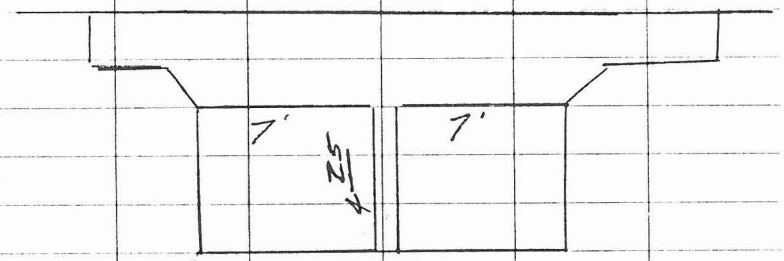
10.35 ✓	09.35 ✓	11.0 ✓
5.5	16.7	5.35
Top W. Bank	Inv.	Top E. Bank
25.16 ✓	09.25 ✓	21.40 ✓
0.79	16.8	4.65
E. R.R.	Inv.	Top Bridge opening
10.55 ✓	09.15 ✓	19.16 ✓
5.5	16.9	4.95
Top W. Bank	Inv.	Top E. Bank

CRS- Loop Return

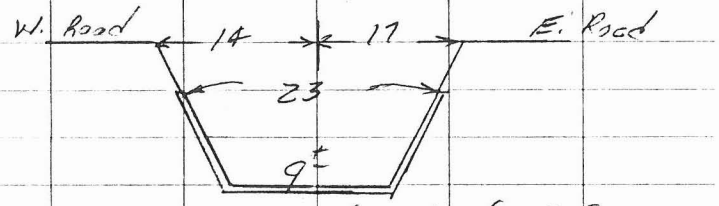
MCFCD

Site Survey

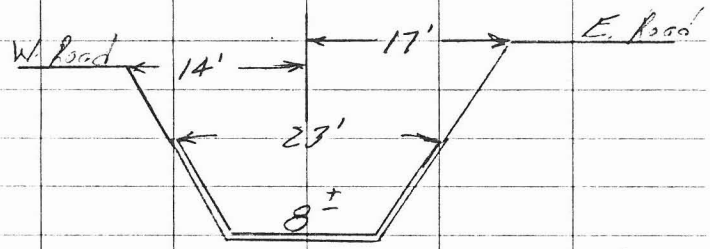
SPRR



Twin Structure Under R.R.



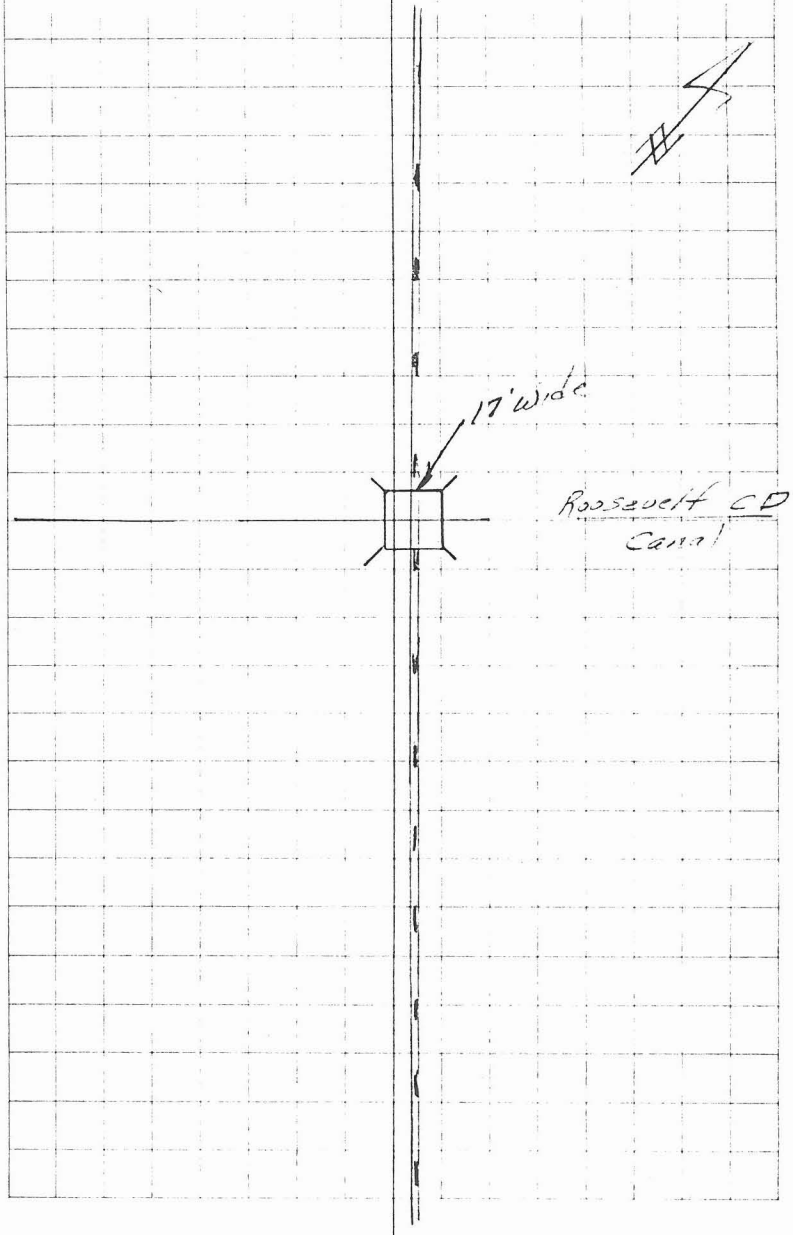
Conc Ditch N. of R.R



Conc Ditch S. of R.R

12/12/87

825/103



MCFCD Site Survey

SPRR — (See Pg 103)

TBM HC43	3.21	26.05 ✓	1322.84

50 N. of R.R.

N Edge R.R. Structure

S. Edge R.R. Structure

50 S. of R.R.

TBM 6-49		1.61	24.44 ✓ (1324.83)

NOTE'S	BY	DATE
CHECKED	LT	12.23.87
COPIED		
	TO	DATE
DELIVERED		

12/23/87

R25
110

CPS - in & Rittenhouse Rd & RWCD Canal
(See BK 812 - Pg 96)

12.10 ✓	20.88 ✓	16.10 ✓	20.68 ✓	24.4 ✓
3.95	5.17	9.95	5.37	1.65
Top W Bank	W. TCD	Inv.	E. TCD	Top E. Bank

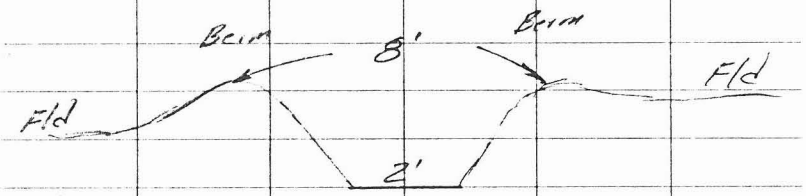
24.60 ✓	15.64 ✓	24.38 ✓
1.45	11.01	1.67
E. R.R.	Inv.	H dwl

15.61 ✓	24.47 ✓
10.44	1.58
Inv.	H dwl

22.25 ✓	20.82 ✓	15.15 ✓	20.64 ✓	22.95 ✓
3.8	5.23	10.30	5.41	2.1
Top W Bank	W. TCD	Inv.	E. TCD	Top E. Bank

cut 2" on SW Cor. of R.R. Bridge Wingwall, W. side of RWCD Canal
(See Bk 812 - Pg 96)

MCFCD Site Survey SPRR



Dirt Ditch N. of R.R.

NOTE'S	BY	DATE
CHECKED	LT	12.23.87
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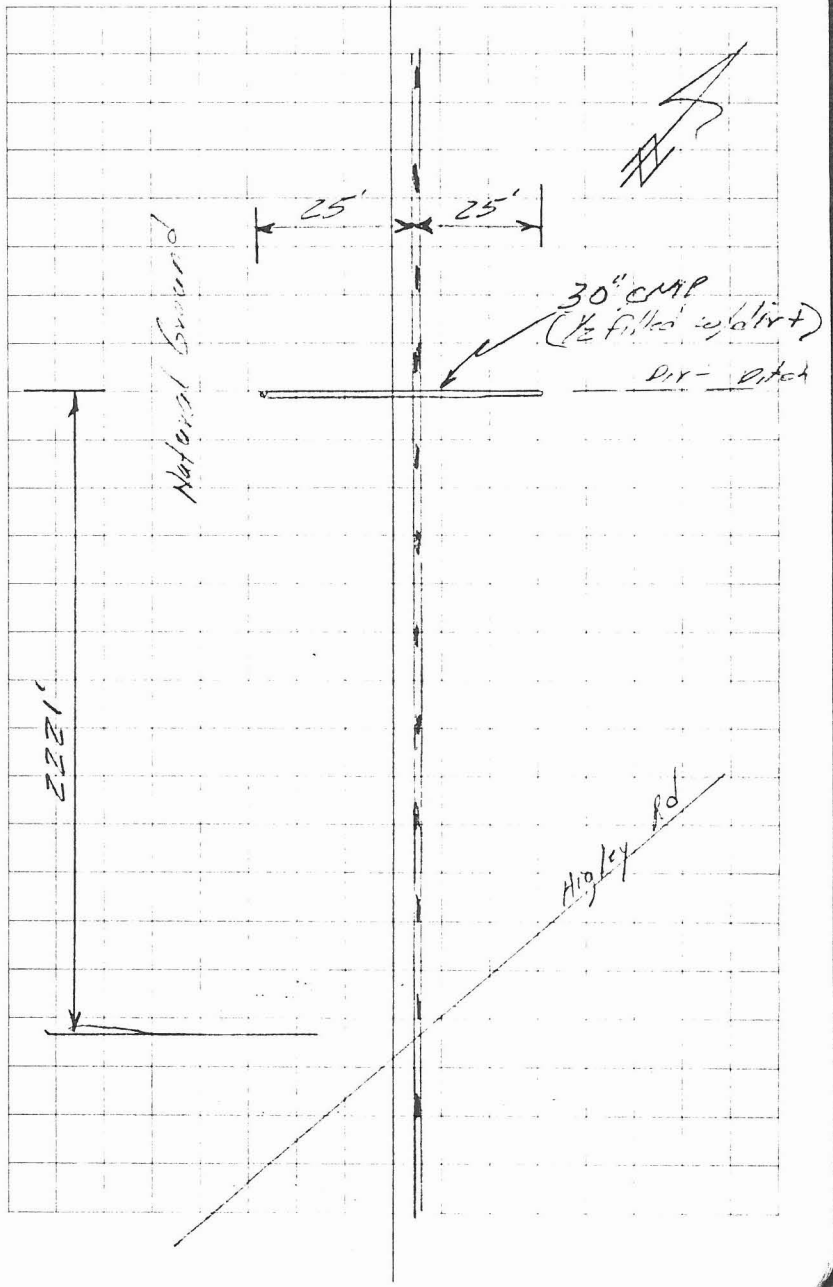
	TO	DATE
DELIVERED		

12/13/87

5-25
112



MCFCD — Site Survey — SPRR (See Pg 112)

TBM #C-41	4.055	99.87 ✓		1295.315
TP #1	2.18	97.69 ✓	4.96	94.91 ✓
TP #2	2.83	94.54 ✓	3.98	93.71 ✓
TP #3	2.92	95.13 ✓	4.33	92.21 ✓

75 N. of R.R. - Dirt Ditch

N. End 30" CMP

S. End 30" CMP

50' S. of R.R.

NOTE'S	BY	DATE
CHECKED	LT	12.23.87
COPIED	TO	DATE
		DELIVERED

12/18/87

225
114

CP3 - on E. Edge Higley Rd @ ℄ of West Arc. (See Bk 812 Pg 108)

R.R. Spk - W. Side R.R. - 600' NW of Higley Rd

R.R. Spk - W. Side R.R. - 1200' NW of Higley Rd

R.R. Spk - W. Side R.R. - 1800' NW of Higley Rd

87.25 ✓ 7.9 ℄ W. Fld

87.15 ✓ 7.4 Bcrm W.

91.45 ✓ 8.7 Inv Dirt Ditch

87.95 ✓ 7.2 Bcrm E

87.2 ✓ 7.35 6 E. Fld

90.18 ✓ 4.35 E R.R.

91.18 ✓ 9.95 Inv.

84.18 ✓ 10.35 Inv

86.85 ✓ 5.3 Ground

MCFCO — Site Survey — SPRR (see pg 11C)

1295.13

TP#3	4.41	96.62 ✓	2.92	92.21 ✓	R.R Spt – Loop Return
TP#2	4.34	98.05 ✓	2.91	93.71 ✓	R.R. Spt – Loop Return
TP#1	4.53	99.45 ✓	3.13	94.92 ✓	R.R. Spt – Loop Return
TBM#HC-41			3.62	95.83 ✓	CPS – Loop Return

(95.815)

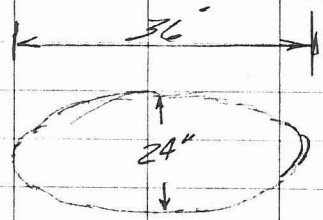
NOTE'S	BY	DATE
CHECKED	WT	12.23.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD

Site Survey – SPRR

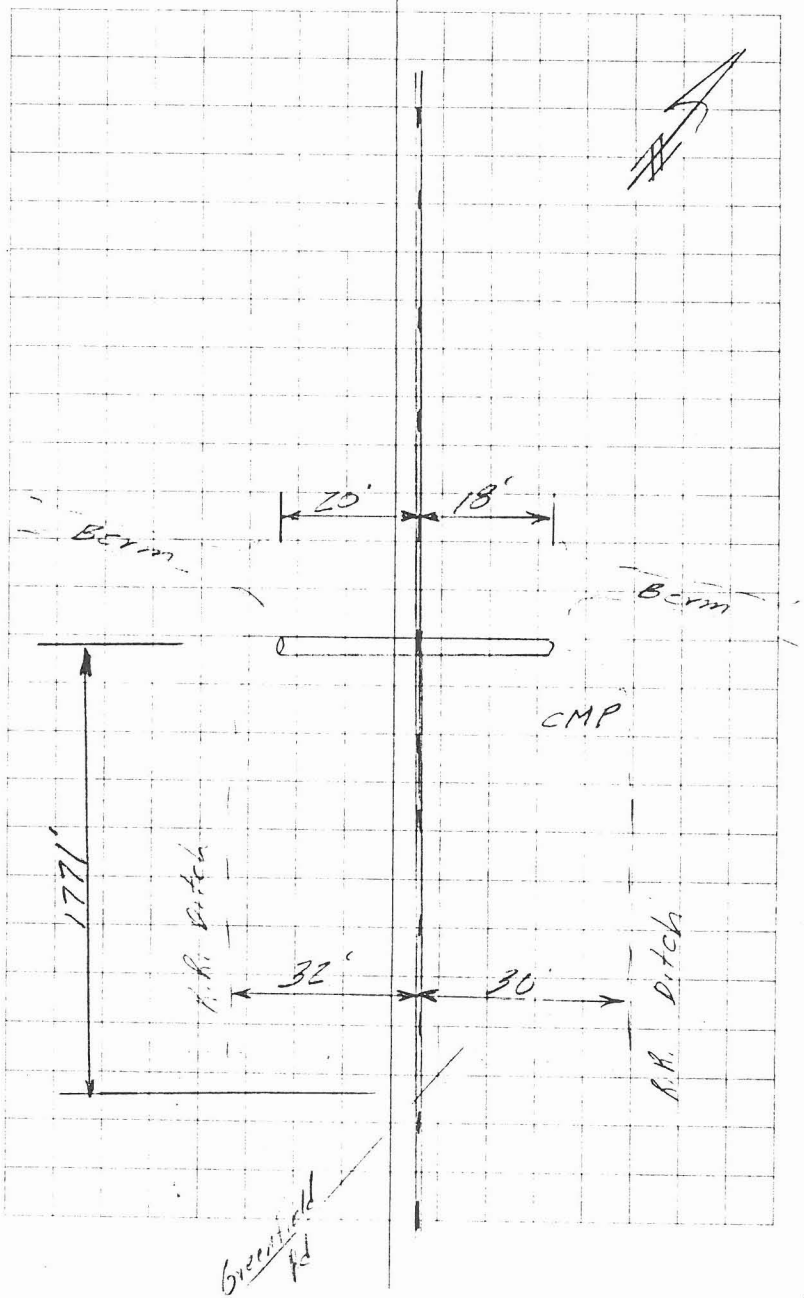
12/13/87

113



Typical Section – CMP under R.R.

NOTE'S	BY	DATE
CHECKED	WT	12.23.87
COPIED		
	TO	DATE
DELIVERED		



MCFCD — Site Survey — SPRR - (See Pg 118)

TBM-HC-33	8.64	80.80 ✓		12.72.16

N. R.R. Ditch - 50' E of CMP

Top N. Berm — 12' W. of CMP -

N. End CMP -

NOTE'S	BY	DATE
CHECKED	LT	12.23.87
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	TO	DATE
DELIVERED		

S. End CMP -

Top S. Berm — 10' W. of CMP

12/18/87

225
125

½" R.B — 40' S. of RR — 500' N. of Rancho & 1000' W. of Greenfield (See Bk 812 Pg 66)

11.0 ✓
9.8
Dirt

13.7 ✓
7.1
Dirt

15 ✓
14.
6.05
E
R.R.

10.28 ✓
10.52
Inv.

9.44 ✓
11.36
Inv.

13.4 ✓
7.4
Dirt

MCFCD

Site Survey -
SPRR - (See Pg 118)
1280.80
T

S. R.R. Ditch - 50' E. of CMP

TBM #HC-33		8.64	72.16 ✓	(72.16)

NOTE'S	BY	DATE
CHECKED	LT	12-23-87
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	TO	DATE
DELIVERED		

12/13/87

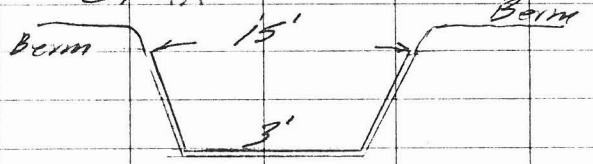
635
132

11.6 ✓
9.2
Dirt

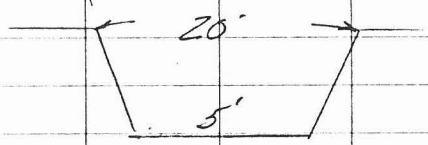
½" R.B. - Loop Return

MCFCD

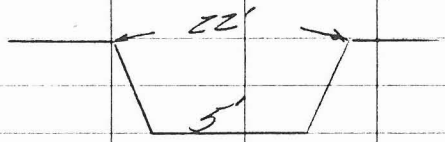
Site Survey -
SPRR



Typical X-Sect Conc Ditches



Typical X-Sect. - Dirt Ditch
S. of R.R.



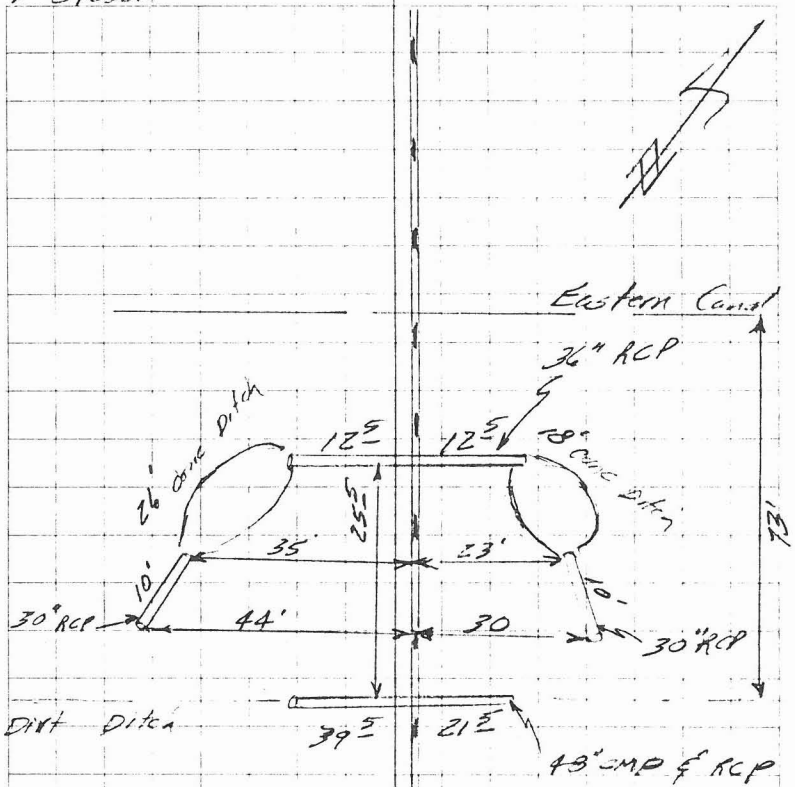
Typical X-Sect - Dirt Ditch
N of R.R.

NOTE'S	BY	DATE
CHECKED	LT	12.23.87
COPIED		
	TO	DATE
DELIVERED		

L. Van Dyke
R. McMurray
T. Crouch

12/21/37

335/124



MCFCD — Site Survey — SPRR — (See Pg 124)

12/21/87

825/126

TBM HC-30	8.37	76.20 ✓ T	1267.83

Dirt Ditch — 80' S. of R.R.

S. End 48" CMP

N. End 48" RCP

NOTE'S	BY	DATE
CHECKED	LT	12-23-87
COPIED		
	TO	DATE
DELIVERED		

Dirt Ditch 70' N. of R.R.

30" RCP - N. Side R.R.

Conc Ditch N. of R.R.

½ R.R. — W. Side Easting — 100' N. of SPRR

69.2 ✓	62.2 ✓	70.05 ✓
7.0 W. Top Slant	14.0 Inv.	6.15 E. Top Slant
71.40 ✓	62.6 ✓	69.70 ✓
4.30 E. R.R.	13.60 Inv.	7.50 Hdwl
	69.5 ✓	69.35 ✓
	13.35 Inv.	6.85 Hdwl
68.8 ✓	62.9 ✓	70.35 ✓
7.4 W. Top Slant	13.3 Inv.	5.85 E. Top Slant
63.80 ✓		63.55 ✓
14.40 W. Inv.		12.65 E. Inv.
70.4 ✓	62.5 ✓	71.35 ✓
5.89 Berm	11.75 Inv.	4.85 Berm
69.10 ✓		69.60 ✓
4.79 W. TCD		6.60 E. TCD

MCFCD

Site Survey - SPRR - (Conc @ 1276)

1276.20

36" RCP

Conc Ditch S. of R.R.

30" RCP - S. side R.R.

TBM HC-30 8.37 67.83 (67.83)

NOTE'S	BY	DATE
CHECKED	WT	12-23-87
COPIED		
	TO	DATE
DELIVERED		

12/21/87

325/128

69.75 ✓
6.45
Hdwl

64.55 ✓
11.65
N.
Inv.

71.40 ✓
4.80
E.
R.R.

64.40 ✓
11.80
S.
Inv.

69.60 ✓
6.60
Hdwl

69.85 ✓
6.35
9'
Berm

68.85 ✓
7.35
W.
TCD

63.10 ✓
12.50
Inv.

69.00 ✓
7.20
E.
TCD

69.85 ✓
6.35
9'
Berm

63.65 ✓
12.55
W.
Inv.

62.90 ✓
13.30
E.
Inv.

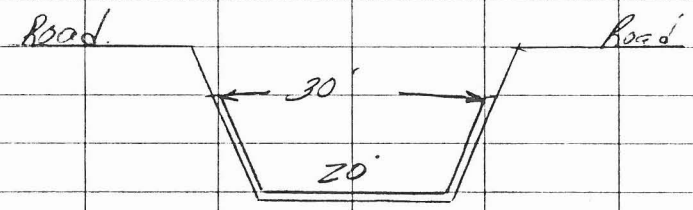
½" R.S. - Loop Return

MCFCD

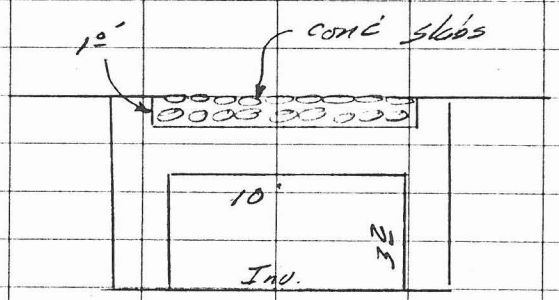
Site Survey —
SPRR-

12/21/87

325
130

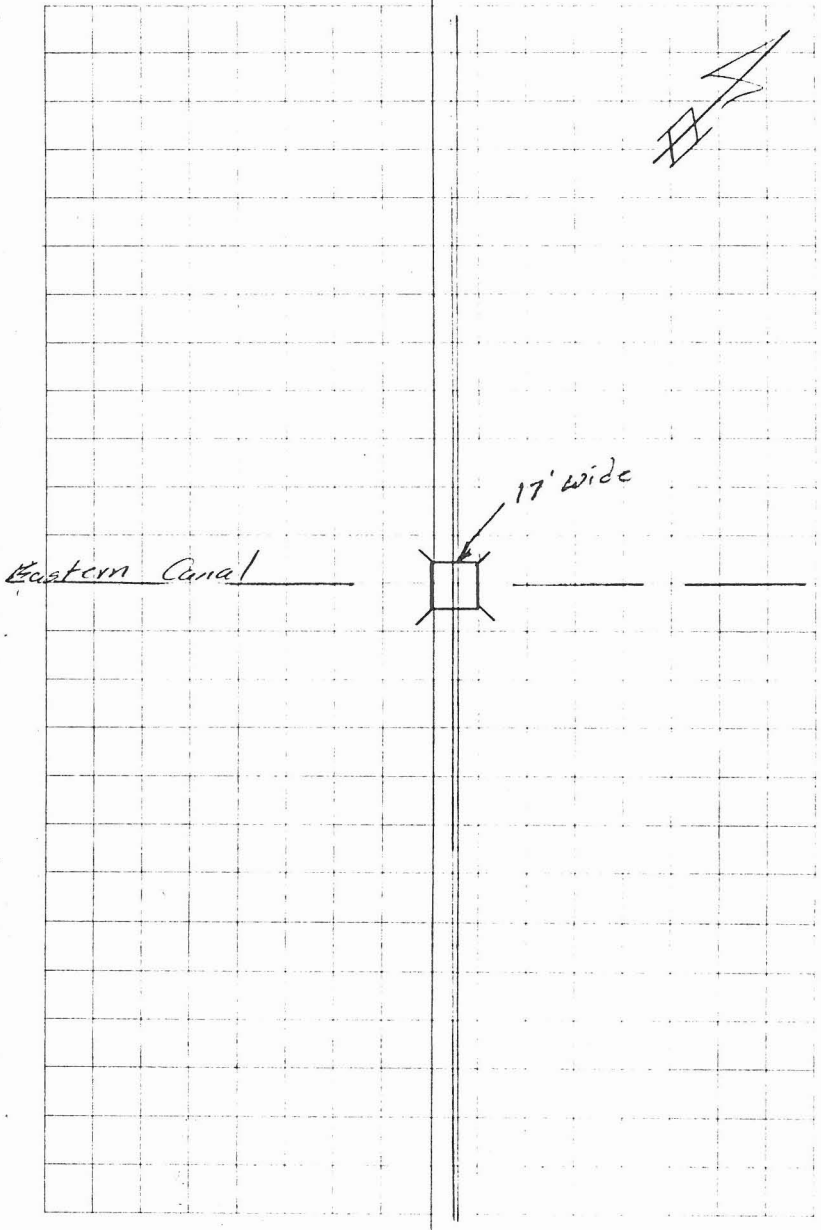


Typical X-sect.
Eastern Canal (conc Lined)



Conc Structure
under R.R.

NOTE'S	BY	DATE
CHECKED	LT	12-23-87
COPIED		
	TO	DATE
DELIVERED		



MCFCD — Site Survey

SPRR (See Pg 130)

TBM #HC-30 8.37 76.20 ✓ (T) 12 67.83

50' N. of R.R.

N. Edge Structure

S. Edge Structure

50' S. of R.R.

NOTE'S	BY	DATE
CHECKED	LT	12-23-87
COPIED		
	TO	DATE
DELIVERED		

TBM #HC-30 8.37 67.83 ✓ <67.83>

12/21/87

825/132

½" R.B. - 100± N. of R.R. - W. side Eastern Canal

71.15 ✓
5.05
18'
Top W. Bank

69.77 ✓
6.43
W.
TCD

64.32 ✓
11.83
Inv.
C.D.

69.95 ✓
6.25
E.
TCD

71.05 ✓
5.15
17'
Top E. Bank

71.3 ✓
4.90
E
R.R.

64.20 ✓
12.00
Inv.
C.D.

10.90 ✓
5.30
Hdwl.

64.40 ✓
11.80
Inv.
C.D.

70.15 ✓
5.45
Hdwl.

69.95 ✓
6.25
18'
Top W. Bank

68.75 ✓
7.45
W.
TCD

64.05 ✓
12.15
Inv.
C.D.

68.61 ✓
7.59
E.
TCD

69.1 ✓
7.1
17'
Top E. Bank

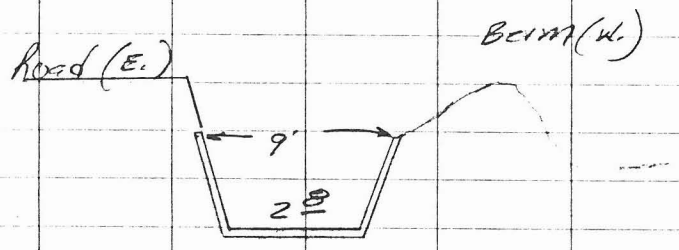
½" R.B. - Loop Return

MCFCD

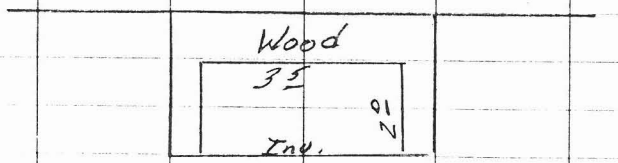
Site Survey
SP R.R

12/21/87

335
134

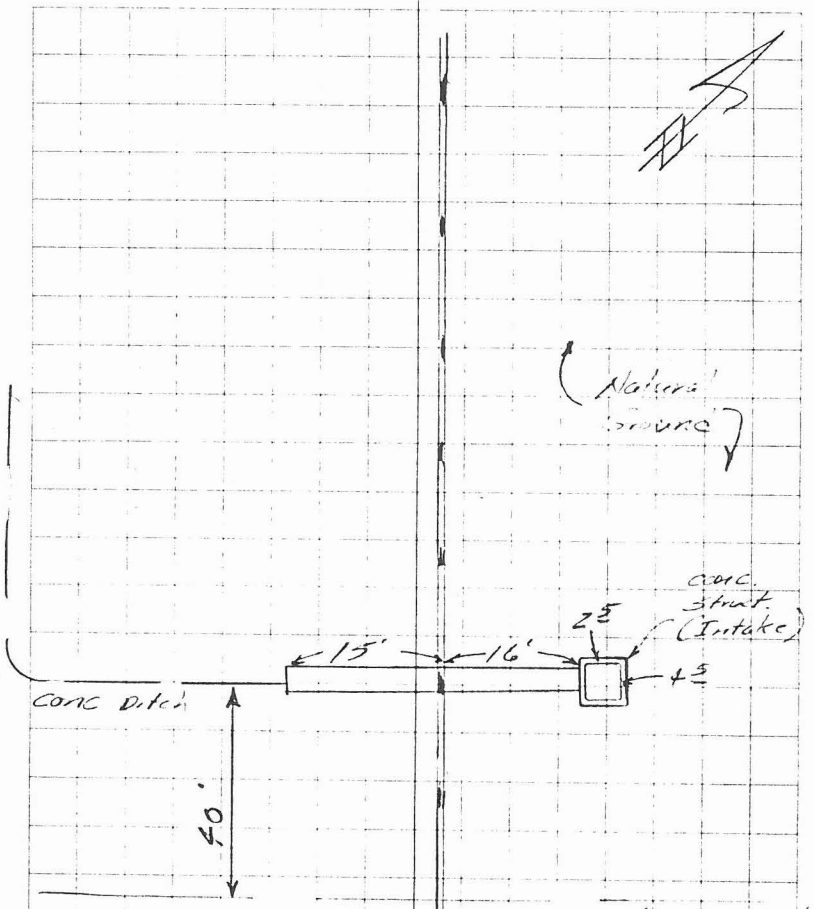


Conc Ditch S. of R.R



Structure Under R.R.

NOTE'S	BY	DATE
CHECKED	LT	12.23.87
COPIED		
	TO	DATE
DELIVERED		



MCFCD — Site Survey — SPRR. (see pg. 134)

TBM #HC-30 — 8.37 — 76.20 ✓ — 1267.83

Ground — N. Side R.R. — W. & N. of Intake

NOTE'S	BY	DATE
CHECKED	WT	12.23.87
COPIED		
	TO	DATE
DELIVERED		

Intake

S. Edge Structure under R.R.

50' S. of R.R.

TBM #HC-30 — 8.37 — 67.83 ✓ — (67.83)

12/21/87

825/136

½" R.B. - 100' N. of R.R. - W. side Eastern Canal

67.6 ✓
8.6
50' W.

68.4 ✓
7.8
50' N.

69.55 ✓
6.65
Top Structure

68.70 ✓
10.50
Inv. Out.

61.25 ✓
14.95
Bottom Structure

69.00 ✓
7.20
Hdwl.

65.99 ✓
10.21
Inv.

71.21 ✓
4.99
℄ R.R.

70.1 ✓
6.1
9'
Berm

68.90 ✓
7.30
W.
TCO

65.60 ✓
10.60
Inv.
C.P.

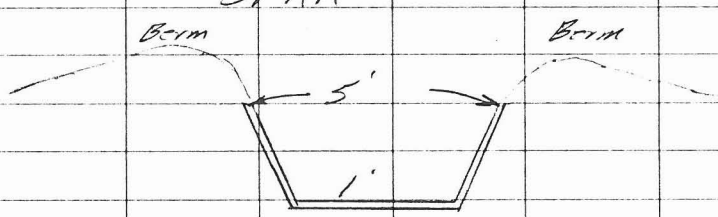
68.85 ✓
7.35
E.
TCO

69.95 ✓
6.25
S
Road

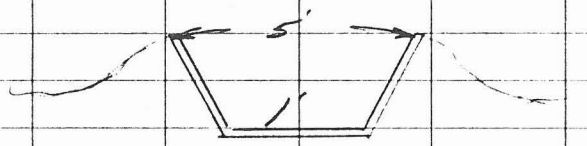
½" R.B. - Loop Return

MCFCD

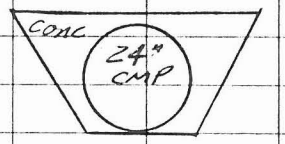
Site Survey - SPRR



conc ditch
No. of R.R.



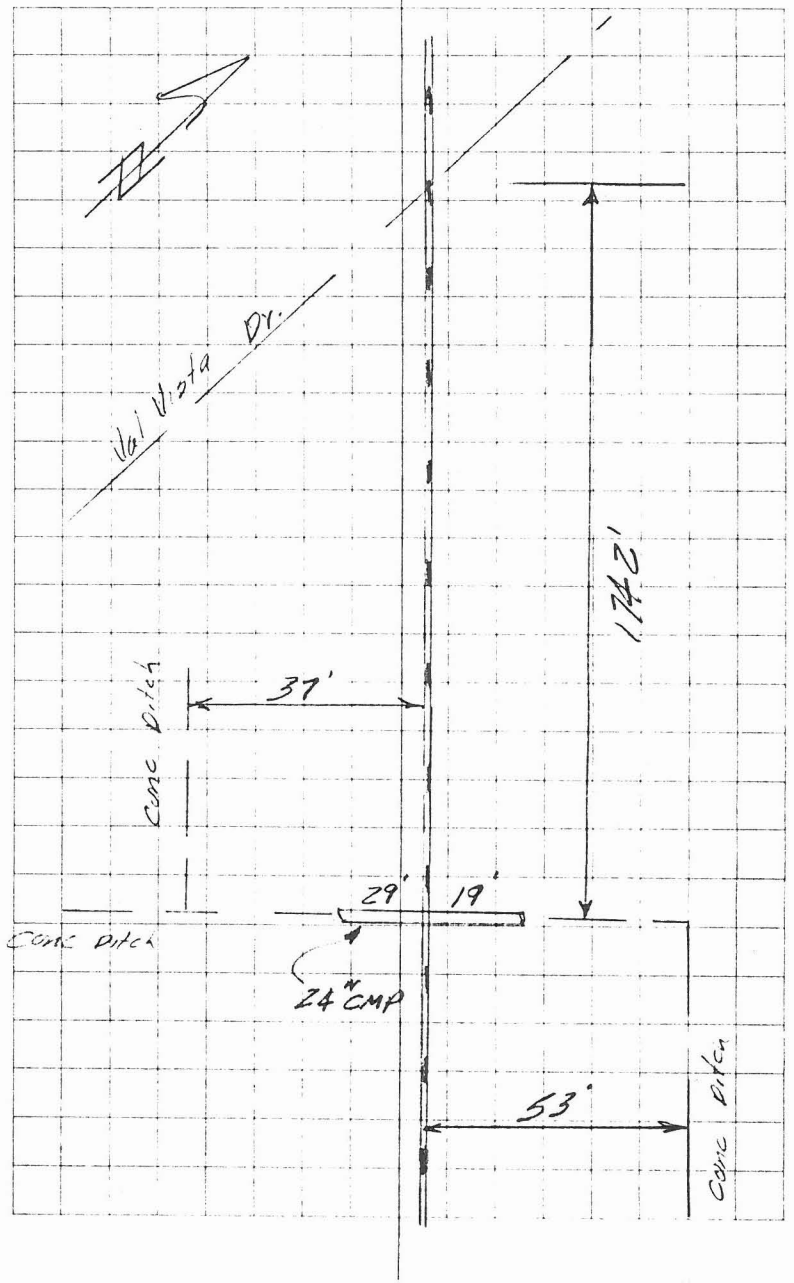
conc ditch
No. of R.R.



structure under
R.R.

12/21/87

825/135



MCFCD — Site Survey — SPRR (see fig 133)

RD-27	4.03	68.29 ✓		1264.26
TP #1	2.65	69.41 ✓ ~~72.47~~	1.53	66.76 ✓ ~~69.82~~
TP #2	4.75	72.94 ✓ ~~76.00~~	1.22	63.19 ✓ ~~67.25~~

50' S. of R.R.

S. End 24" CMP

N. End 24" CMP

50' N. of R.R.

NOTE'S	BY	DATE
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12/21/87

825/140

CPS - E Val Vista Dr. - 100± S. of SPRR

R.R. Spk - S. side RR - 600± E of Val Vista

R.R Spk - S. side RR - 1200± E. of Val Vista

66.36 ✓ ~~69.44~~	64.57 ✓ ~~67.63~~	66.39 ✓ ~~69.45~~		
6.58 W. TCD	8.37 Inv. C.D.	6.55 E. TCD		
69.49 ✓ ~~72.55~~	63.65 ✓ ~~66.71~~	66.24 ✓ ~~69.32~~		
3.45 @ R.R.	9.29 Inv.	6.43 Hdwl.		
	63.54 ✓ ~~66.60~~	66.77 ✓ ~~69.83~~		
	9.40 Inv	6.17 Hdwl		
67.04 ✓ ~~70.10~~	66.19 ✓ ~~69.25~~	64.54 ✓ ~~67.60~~	66.49 ✓ ~~69.55~~	67.39 ✓ ~~70.45~~
5.90 @ Berm	6.25 W. TCD	8.40 Inv. CD	6.45 E. TCD	5.55 @ Berm

12/21/87

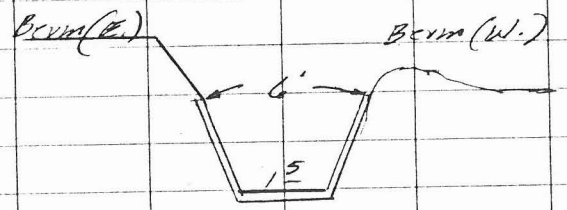
Site Survey —

MCFCD		SPRR (see Pg 138)			
		~~1276.00~~ 72.9 ↑			
TP#2	1.34	~~72.61~~ 69.53 ✓ ↑	4.75	~~74.65~~ 68.71 ✓	R.R. Spk. – Loop Return
TP#1	1.55	~~71.39~~ 68.31 ✓ ↑	2.77	~~69.84~~ 66.76 ✓	R.R. Spk – Loop Return
TEM#RO-27			4.06	~~67.33~~ 64.25 ✓ (64.26)	CPS – Loop Return

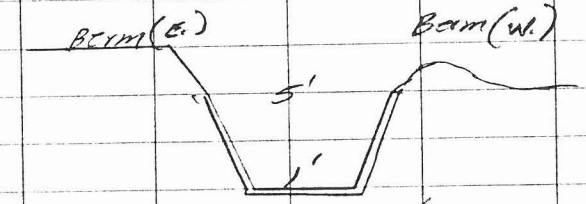
NOTE'S	BY	DATE
CHECKED	LT	12-23-87
COPIED		
	TO	DATE
DELIVERED		

MCFCD

Site Survey
SPRR



Conc Ditch S. of R.R.

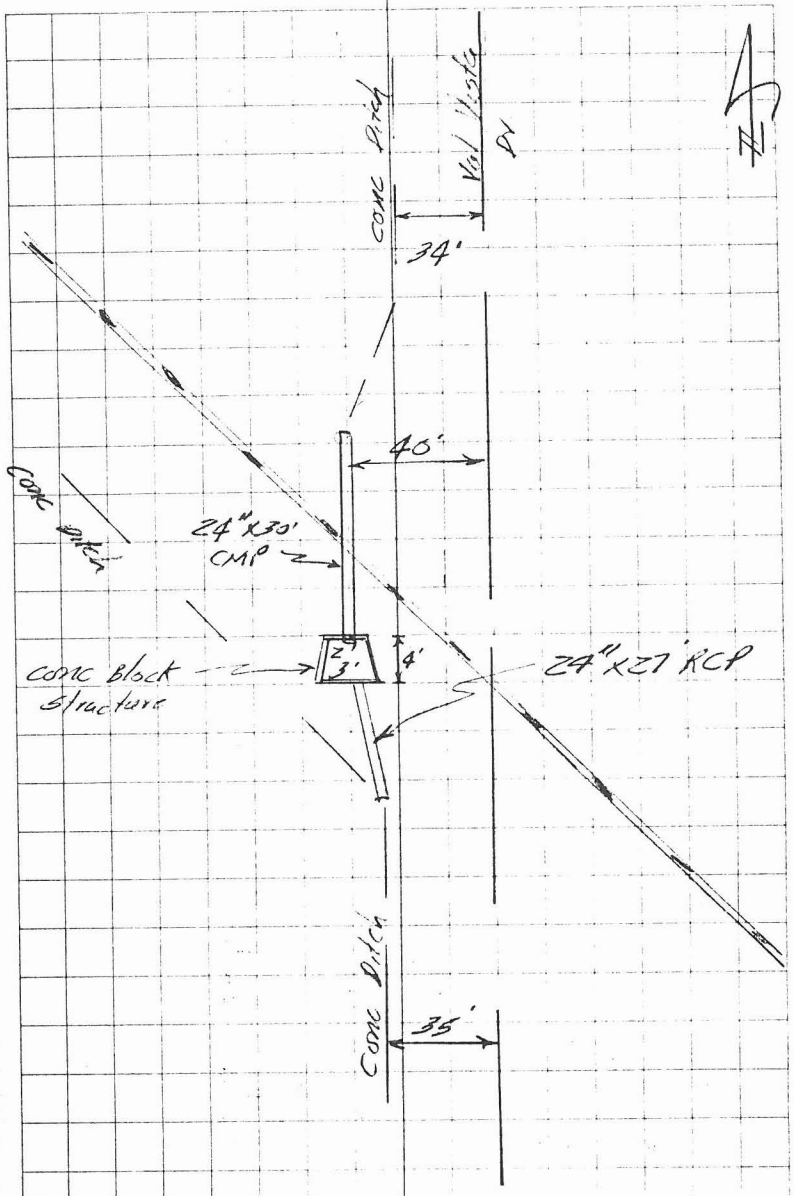


Conc Ditch
N. of R.R.

NOTE'S	BY	DATE
CHECKED	LT	12-23-87
COPIED		
	TO	DATE
DELIVERED		

12/21/87

225
14



MCFCD — Site Survey — SPRR (See Pg 144)

Trav RO-27 — 5.64 — 69.90 ↑ — 12.64.26

70' South of R.R.

S. End — 24" x 27' RCP

N. End — 24" x 27' RCP

S. End — 24" x 30' CMP

N. End — 24" x 30' CMP

NOTE'S	BY	DATE	TO	DATE
CHECKED	LT	12-23-87		
COPIED				
			DELIVERED	

12/21/87

BES
7#6

CPS-1 Val Verde Dr. — 100± S. of SPRR

63.15✓ 6.75 S Berm

62.72✓ 7.18 W TCD

64.15✓ 8.75 Inv CD

63.28✓ 6.62 E. TCD

64.3✓ 5.6 T Berm

60.95✓ 9.45 Inv.

62.31✓ 5.59 Hdwl.

60.16✓ 9.74 Inv.

62.41✓ 7.49 Hdwl

63.25✓ 4.65 E R.R.

60.22✓ 9.68 Inv.

63.08✓ 6.82 Hdwl.

60.15✓ 9.75 Inv.

63.30✓ 6.60 Hdwl.

MCFCD

Site Survey – SPRR – (See Pg. 144)

1269.90

70' N of R.R.

TEMP 0-27		5.64	64.26 ✓	(64.26)

5.83
5.64
.19

NOTE'S	BY	DATE
CHECKED	LT	12-23-87
COPIED		
	TO	DATE
DELIVERED		

63.2 ✓ 62.93 ✓ 60.95 ✓ 63.01 ✓ 64.0 ✓

6.7 4 Berm | 7.7 W. TCD | 8.95 Inl. C.D. | 6.89 E. TCD | 5.9 5 Berm

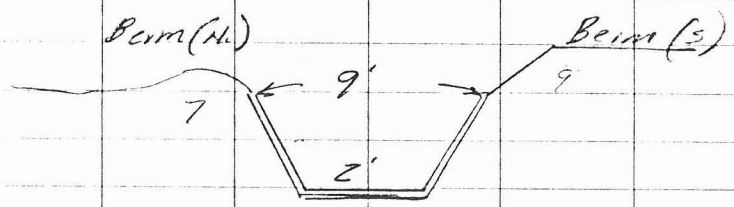
CPS: Loop Return

MCFCD

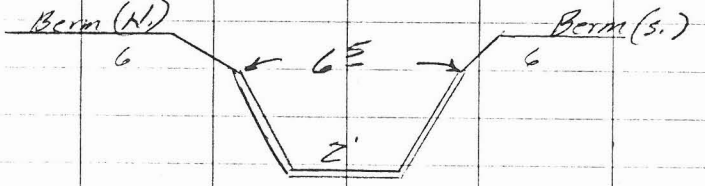
Site Survey
3/RR

12/21/37

225
150

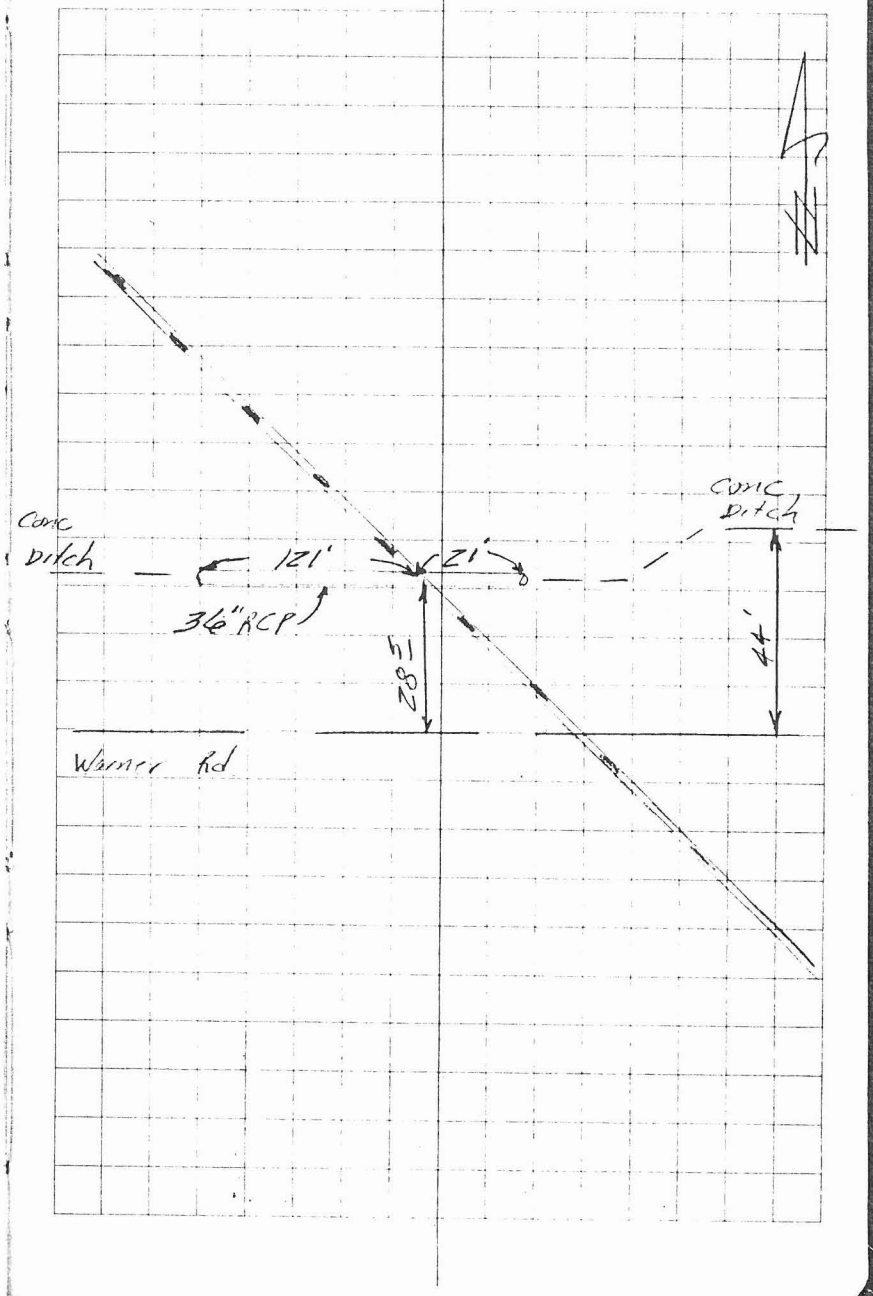


conc ditch E. of R.R.



Conc Ditch W. of R.R.

NOTE'S	BY	DATE
CHECKED	LT	12.23.87
COPIED		
	TO	DATE
DELIVERED		



MCFCD — SITE SURVEY — SPRR (See Pg 150)

TBM #3-126	5.69	63.10 ✓	1257.41

70' E. of R.R.

E. End 36" RCP

W. End 36" RCP

170' W. of R.R.

TBM #3-126 5.69 57.41 ✓ (57.41)

NOTE'S	BY	DATE
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	TO	DATE
DELIVERED		

Cut 'D' in SE Cor. Bridge - N. Side Warner - 200' W of SPRR (See Bk 805 Pg 110)

58.2 ✓	57.65 ✓	54.85 ✓	57.60 ✓	59.5 ✓
4.9	5.45	8.55	5.50	3.6
7	N.	Inv	S.	9
Berm	TCD	C.D.	TCD	Berm

59.1 ✓	54.11 ✓	58.18 ✓
4.0	8.99	4.91
℄	Inv.	H.W.L.
R.R.		

52.95 ✓	57.00 ✓
10.15	6.10
Inv	H.W.L.

56.95 ✓	56.35 ✓	53.74 ✓	56.18 ✓	57.5 ✓
6.15	6.85	9.36	6.92	5.6
6	N.	Inv	S.	6
Berm	TCD	C.D.	TCD	Berm

Cut 'D' - Loop Return

MCFCD

35901.00	3 WIRE LEVEL BK. #6	
35901.00	BEGIN 3 wire level loop BLK # 7 (cont. pg. 18)	
	SRP Potholing	
35901.00	cont. 3 wire level loop BLK # 7	
	SRP potholing	
35901.00	3-Wire Levels - Block 7	
35901.00	3-Wire Levels - Block 7	
35901.00	Spot Elevations	
35901.00	3-Wire Levels - Block 7	
35901.00	3-Wire Levels - Block 7	
35901.00	3-Wire Levels - Block 8	
35901.00	3-Wire Levels - Block 8	
35901.00	3-Wire Levels - Block 8	
35901.00	Add'l Information for	Woods
35901.00	Add'l Information for	Woods

BK 317

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E Assoc.
E Assoc.

MCFCD

3 wire LEVELS on BLK # 6

VC-17				1279.475
	5.775			
	4.47 + 4.47			
	3.165		1283.945	
			4.215	
T.B.m # 6-80			2.91 + 2.91	1281.035
	3.82		1.605	
	2.525 + 2.525			
	1.23		1283.56	
			4.3415	
T.B.m # 6-81			2.965 + 2.965	1280.595
	3.885		1.585	
	2.55 + 2.55			
	1.21		1283.1415	
			5.88	
T.B.m # 6-82			4.575 + 4.575	1278.57
	4.83		3.27	
	3.53 + 3.53			
	2.23		1282.10	

J. Thompson ⊼ ☐ cool, cloudy
D. middleton ϟ

817
2

10-13-87

* Level pegged 0.00

R-BAR in N.H. 1/2 E. of Greenfield on RAY

'☐' on S.T.C.D 500'± W of VC-17

'☐' cut on S.T.C.D 1100'± W of V.C. 17

'☐' cut on S.T.C.D 1600'± W. of V.C. 17

MCFOD

	3 WIRE LEVEL ON BCK #6			
		1282.10		
		5.315		
T.Bm# 6-83		4.01	41.01	1278.09
	5.85	2.705		
	4.52	4.52		
	3.19	1282.61		
		4.75		
R.O.# 31		3.45	3.45	1279.16
		2.145		

'A' cut on S.T.C.D 2200'± W. of V.C. 17

← 0.015 →

(1279.175) BC. IN N.H. Intersection Greenfield & RM

MCFCD

3 wire level loop BK # 7

H.C. # 53				(1224.80)
	6.80			
	5.525 + 5.525			
	4.25		1230.325	
			6.345	
T.B.m # 7-1			5.055 + 5.055	1225.270
			3.765	
	6.805			
	5.475 + 5.475			
	4.145		1230.745	
			6.67	
T.B.m # 7-2			5.36 + 5.36	1225.385
			4.055	
	8.80			
	7.465 + 7.465			
	6.125		1232.85	
			7.50	
T.B.m # 7-3			6.22 + 6.22	1226.63
			4.94	

cont. on page 16

J. Thompson
D. Middleton

10-14-87

817
6

2" PIPE in H.H. Intersection Queen Creek & McQueen

"X" cut on E.T.C.D. w. side McQueen RD 500' S. of H.C. # 53

"X" cut on E.T.C.D. w. side McQueen RD 1100' ± S. of H.C. # 53

NOTE'S	BY	DATE
CHECKED	JBL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

R-BAR 1650' ± S H.C. # 53 in E w. side Cooper RD

10-14-87

817/8

SRP Potholing

McQueen & ELLIOT

B.M.				(1215.68) ✓
	5.98 +			
		21.66 ✓		
		TOP OF 2" conduit Telephone	- 10.25	1211.41 ✓
		NATURAL GROUND	- 5.05	1216.60 ✓
		TOP OF 6" PIPE	- 10.34	1211.32 ✓
		NATURAL GROUND	- 4.90	1216.76 ✓
B.m			- 5.98	1215.68 ✓

B.C. in H.H. Intersection McQueen & ELLIOT

BK 152 pg 56

2" tele. conduit @ N.E. corner ELLIOT McQueen

6" GAS LINE @ N.W. cor. ELLIOT & McQueen

0.00

(1215.68)

SKP Potholing

Cooper & Guadalupe

Bm.				20.40 ~~1211.14~~
	5.39 +	25.79 ✓		
		~~16.53~~		14.63 ✓
		TOP OF 4" cable	11.16	~~1205.37~~
				21.14 ✓
		NATURAL Ground	4.65	~~1211.88~~
				16.21 ✓
		TOP OF APE	9.58	~~1206.95~~
				20.99 ✓
		NATURAL Ground	4.80	~~1211.73~~
				20.40 ✓
			5.39	~~1211.11~~
B.m				

?

B.C. in H.H. @ Intersection Cooper & Guadalupe

BK ~~15E~~ Pg ~~72~~

(4)* 4" tele. conduit @ S.W cor. Cooper & Guadalupe

Between wellsite Fence & S. edge Cooper R.D.

water Line @ N.W. cor Cooper & Guadalupe

water Line Runs E/W

B.C. in H.H. (20.40)

* NOTE: At least one more SET OF (4)

Below Pipes that were shot.

SEE page 22 This BK

EX. ○○○○ SHOT Here Taken

○○○○

SRP Potholing

Cooper RD. 1/4 mi S. OF BASELINE RD

				✓
T.P.# 7				21.09
	4.75 +			
		25.84 ✓		
		Bottom of 4" conduit	− 10.10	15.74 ✓
		NATUIAL Ground	− 5.45	20.39 ✓
T.P.# 8			− 5.23	20.61 ✓

10-14-87

BPS on E.T.C.D. W. SIDE OF cooper RD
BK 152 pg 102

(1) 4" telephone conduits W. SIDE cooper RD
1/4 mi S. of BASELINE RD

✓

(21.61) BPS on E.T.C.D. 600' N. OF T.P.#7
BK 152 pg 104

SRP Potholing

Cooper RD 1/2 mi. S. OF ELLIOT ✓

B.M			24.89
	3.29 +		
		28.18 ✓	
		TOP OF 12" PIPE − 12.38	15.80 ✓
		NATURAL GROUND − 2.72	25.46 ✓
B.M		− 3.29	24.89 ✓

10-14-87

817/14

B.C. in H.H 1/2 mi S. OF ELLIOT & Cooper RD

BK 152 PG 80

12" GAS PIPELINE 1/2 mi S. OF ELLIOT

E. SIDE COOPER RD

PIPELINE RUNS N/S

(24.89) B.C. in H.H.

10-14-87

MC FCO

3 wire Level Loop BLK # 7

T.B.m # 7-3				(1226.63)
	5.535			
	4.345	+ 4.345		
	3.16		1230.975	
			4.695	
T.B.m # 7-4			3.43	- 3.43	1227.545
			2.165	
	5.04			
	3.410	+ 3.40		
	1.765		1230.945	
			5.21	
T.B.m # 7-5			3.53	- 3.53	1227.415
			1.855	
	5.94			
	4.28	+ 4.28		
	2.625		1231.695	
			5.075	
T.B.m # 7-6			3.44	- 3.44	1228.255
	5.725		1.805	
	4.105	+ 4.105		
	2.48		1232.36	

R-BAR (cont. From pg. 6)

cps in E. FACE P. Pole 2150' ± S. OF H.C. # 53

cps in E FACE P. Pole 2800' ± S. OF H.C. # 53

NOTE'S	BY	DATE
CHECKED	JBL	11.5.87
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	TO	DATE
DELIVERED		

cps in E FACE P Pole 3450' ± S. OF H.C. # 53

mcFCD

3 wire level loop BIK 7

			1232.36		
			5.94		
T.B.m# 7-7			4.27 + 4.27	1228.09	cps in E FACE P. Pole 4100'± S. OF H.C.# 53
			2.605		
	6.055				
	4.410	+ 4.40			
	2.75		1232.49		
			5.77		
TB.m# 7-8			4.10 + 4.10	1228.39	cps in E. FACE P. Pole 4600'± S. OF H.C.# 53
			2.43		
	6.13				
	4.48	+ 4.48			
	2.835		1232.87		
			5.63		1/2" R.B.
R.O.#42			4.225 + 4.225	1228.645	R.O.#42 in H.H. @ Intersection mcqueen & ocotillo RD
			2.82		

(con't on pg 26)

NOTE'S	BY	DATE
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COPIED		
	TO	DATE
DELIVERED		

SEP Potholing

L. Van Dyke
J. Thompson
T. Craven

10-15-87

817
30

McQueen RD & western canal

B.m			(1217.06)
	4.08 +		
		1221.14	
TOP OF 12" P.L.		- 12.24	1208.90
NATURAL Ground		- 5.45	1215.69
B.m		- 4.08	1217.06

B.C in H.H. & McQueen RD & western canal
BK 152 pg 58

12" " Gas Pipeline @ McQueen & western canal
W. side McQueen Pipeline Runs E/W

(1217.06) B.C.

10-15-87

SED Potholing

Cooper RD & western CANAL

B.m			1223.23
	4.18 +		
		1227.41	
TOP OF 12" Pipe		− 10.73	1216.68
NATURAL Ground		− 4.95	1222.46
B.m		− 4.18	1223.23

B.C. on Wing WALL @ S. SIDE western CANAL
BK 152 pg 8C

12" GAS PIPE LINE S. OF western CANAL
W. OF cooper RD PIPE LINE RUNS E/W

B.C. on H. WALL 1223.23

Cooper & GUADALUPE @ wellsite

B.m			1220.49
	4.95 +		
		1225.44	
BOTTOM OF conduits		− 11.72	1213.72
NATURAL Ground		− 4.35	1221.09
B.m		− 4.95	1220.49

B.C. on wing WALL S.E. COR OF GUADALUPE & COOPER
BK 152 pg 9Z

(2) SETS OF 4 4" Telephone conduit
LINE RUNS E/W

* NOTE SEE PAGE 10 this BK

MCFCD

3 Wire Levels - Block 7

L.V.D.
J.T.
T.C.

10/15/87

817
24

Level Check

T @ Mid Point

#1 = 5.285
#2 = 4.805
Diff = 0.480

Ok 9'

T @ #1

#1 = 5.125
#2 = 4.645
Diff = 0.480

MCFCD | 3-Wire Levels - Block 7 | 10/15/87 | 317/26

(con't from Pg 18)

RO #42				1223.645	½" R.B. @ Intersection Ocotillo & McQueen Rd
	5.725				
	4.10	32.745		up 0.11 to Rd Surface @ RO-42 Elev = 1228.755	
	2.48				
			5.19		
TBM #7-9			3.40	1229.345	CPS - Po. Pole - W. Side McQueen - 685'± S. of Ocotillo Rd
			1.605		
	5.985				
	4.81	34.155			
	3.64				
			4.255		
TBM #7-10			3.19	1230.965	CPS - Po. Pole - W Side McQueen - 1120'± S. of Ocotillo Rd.
			2.12		
	5.425				
	4.13	35.095			
	2.825				
			6.615		
TBM #7-11			5.135	1229.96	5/8" R.B. 30' W. of McQueen - 1680'± S. of Ocotillo Rd
			3.655		
	5.94				
	4.34	34.30			
	2.74				

NOTE'S	BY	DATE
CHECKED	JBL	11.5.87
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	TO	DATE
DELIVERED		

MCFCD — 3-Wire Levels — Block T

L. Van Dyke
R. McMurray
T. Craven

10/13/87
10/14/87

5th
28

			1234.30 ↑		
				6.715	
TBM # 7-12				5.05	1229.25 — 5/8" R.B. 30 W. of McQueen 2330± S. of Ocotillo Rd.
				3.395	
	4.91				
	4.14		33.39 ↑		
	3.38				
				5.50	
TBM # 7-13				4.72	1228.67 — Bar & Cap - ½ mile S. of Ocotillo Rd. & McQueen
				3.945	
	6.14				
	4.41		33.08 ↑		
	2.675				
				5.36	
TBM # 7-14				4.30	1228.78 — 5/8" R.B. 30 W. of McQueen 3320± S. of Ocotillo
				2.735	
	5.205				
	4.035		32.815 ↑		
	2.36				
				3.73	
TBM # 7-15				2.035	1230.78
				0.345	Cut 2' NE Hdwl. Struct. # 19-22N — 30' W. of McQueen - 4000± S. of Ocotillo Rd.
	4.105				
	2.65		33.43 ↑		
	1.195				

NOTE'S	BY	DATE
CHECKED	JBL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

3-Wire Levels - Sect 7

10/26/87

1	MCFCD				
			123.43 ↑		
				9.22	
	TBM# 7-16			7.28	1226.15	5/8" RB - 30 W. of McQueen Rd. 960± S. of Ocotillo Rd.
7.				5.35	
		5.62			
		4.07	30.22 ↑		
		2.515			
				6.89	
	RO-45			5.18	1225.84 .033	B.C. in HH. @ Intersection McQueen & Chandler Hgts. Rd.
7				3.07	
		6.36			
		5.09	30.13 ↑		
		3.825			
				5.13	
	TBM# 7-17			3.875	1226.255	CPS - P.P. 25' W. of McQueen 500'± S. of Chandler Hgts. Rd.
7				2.615	
		5.50			
		3.84	30.095 ↑		
		2.13			
				6.17	
	TBM# 7-18			4.53	1225.565	CPS - P.P. 25' W. of McQueen - 1160± S. of Chandler Hgts. Rd.
7				2.88	
		5.11			
		4.32	29.885 ↑		
		3.525			

up 0.40 to Handhole Cover @ RO-45 Elev. = 1225.44 .433

NOTE'S	BY	DATE
CHECKED	JBL	11.587
COPIED		
	TO	DATE
DELIVERED		

MCFCD — 3-Wire Levels — Block 7

10/16/87

817
52

		1229.885 ↑	5.185	
			4.32	
TBM #7-19			3.46	
	5.23			
	3.61	29.175 ↑		
	2.00			
			5.96	
			4.255	1224.92
TBM #7-20			2.55	
	5.32			
	4.10	29.02 ↑		
	2.88			
			6.34	
			5.14	1223.88
TBM #7-21			3.945	
	6.17			
	4.93	28.81 ↑		
	3.69			
			4.465	
			3.21	1225.60
TBM #7.22			1.96	
	6.24			
	4.47	30.07 ↑		
	2.70			

1225.565 — CPS Po. Pole - 25' W. of McQueen - 1480 ± S. of Chandler Hgts Rd

1224.92 — CPS Po. Pole - 25' W. of McQueen - 2100 ± S. of Chandler Hgts Rd.

1223.88 — B.C. - ½ mile S. of Chandler Hgts Rd. on McQueen Rd

1225.60 — CPS Po. Pole - 25' W. of McQueen - 3200 ± S. of Chandler Hgts Rd.

NOTE'S	BY	DATE
CHECKED	JBL	11 S 87
COPIED		
	TO	DATE
DELIVERED		

MCFCD 3-Wire Levels - Block 7

10/26/87

917

		1230.07 ↑			
				4.635	
TBM #7-23				3.15	1226.92
				1.61	CPS Po Pole 25 W. of McQueen - 3800 ± S. of Chandler Hgts. Rd
	5.58				
	4.34	31.26			
	3.10	↑			
				4.41	
TBM #7-24				3.20	1228.06
				1.99	CPS Po Pole 25 W. of McQueen - 4300 ± S. of Chandler Hgts Rd
	5.29				
	4.10	32.16			
	2.91	↑			
				4.86	
TBM #7-25				3.615	1228.545
				2.37	CPS - Po Pole - 25 W. of McQueen - 4330 ± S. of Chandler Hgts. Rd.
	5.51				
	4.36	32.905			
	3.20	↑			
				6.37	1227.900 from 3-wire program
HC-64				5.00	1227.905
				3.63	B.C. in H.H. @ Intersection McQueen & Ryan Rd.
	4.785				
	3.32	31.225			
	1.855	↑			

Rd. Surface @ HC-64 Elev = 1228.435 (see Pg 128)

NOTE'S	BY	DATE
CHECKED	JBL	11.5.87
COPIED		
	TO	DATE

MCFCD — 3-Wire Levels — Block 7

10/17/87

817/56

			1231.225 ↑		
				5.755	
TBM #7-26				4.21	1227.015
				2.66	
	4.04				
	2.68		29.695 ↑		
	1.32				
				4.895	
TBM #7-27				3.56	1226.135
				2.22	
	3.455				
	2.095		28.23 ↑		
	0.74				
				5.55	
TBM #7-28				4.20	1224.03
				2.85	
	3.745				
	2.23		26.26 ↑		
	0.715				
				8.31	
HC-63				6.50	1219.76 ✓
				4.69	
	6.86				
	5.655		25.415 ↑		
	4.44				

CPS - Po Pole - 35' N. of Riggs - 600± W. of McQueen Rd.

CPS - Po Pole - 35' N. of Riggs - 1140± W of McQueen Rd.

CPS - Po. Pole - 35' N. of Riggs Rd - 1630± W. of McQueen Rd.

CPS - @ Riggs Rd @ Canal - 2400± W. of McQueen

NOTE'S	BY	DATE
CHECKED	JBL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD | 3 Wire Levels - Block 7 | 10/16/87 | 917/33

		1225.415 ↑	6.74		
TBM #7-29			5.325	1220.09	5/8" R.B. - E. Bank Canal - 520'± S. of Riggs Rd
			3.91		
	4.46				
	3.035	23.125 ↑			
	1.61				
			6.385		
TBM #7-30			5.035	1218.09	5/8" R.B. - E. Bank Canal - 1070'± S. of Riggs Rd.
			3.685		
	6.685				
	5.27	23.36 ↑			
	3.855				
			6.265		
TBM #7-31			4.915	1218.445	5/8" R.B. - E. Bank Canal - 1620'± S. of Riggs Rd
			3.565		
	6.16				
	4.83	23.275 ↑			
	3.50				
			6.465		
TBM #7-32			5.035	1218.19	5/8" R.B. - E. Bank Canal 2130'± S. of Riggs Rd
			3.77		
	6.31				
	5.18	23.37 ↑			
	4.04				

NOTE'S	BY	DATE
CHECKED	JBL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD | 3 Wire Levels - Blair | 1 | 10/6/87 | 917/40

		1223.37 ↑			
			5.90		
TBM #7-33			4.82	1218.53	5/8" R.B. - E. Bank Canal 2500± S. of Rapp Rd
			3.77		
	6.24				
	5.225	23.755 ↑			
	4.21				
			5.52		
VC-31			4.50	1219.255	1/2" R.B. - SE Cor. of Intersection of Canal & Railroad - 1/2± mile S. of Rapp Rd.
			3.49		
	6.97				
	5.63	24.885 ↑			
	4.29				
			5.405		
TBM #7-34			3.895	1220.99	CRS - & Railroad - 580± S. of VC-31
			2.395		
	7.00				
	5.45	26.44 ↑			
	3.90				
			6.23		
TBM #7-35			5.275	1221.165	CRS - & Railroad 1130± S. of VC-31
			3.225		
	6.38				
	4.96	26.185 ↑			
	3.535				

NOTE'S	BY	DATE
CHECKED	BL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD | 3-Wire Levels - Book 7 | 10/16/87 | 817/42

		1226.125 ↑	6.49		1450
TBM #7-36			5.035	1221.09	CPS- & Railroad —
			3.58		1750± S. of VC-31
	6.635				
	5.195	26.285 ↑			
	3.75				
			6.515		
TBM #7-37			4.98	1221.305	CPS- & Railroad
			3.45		2350± S. of VC-31
	6.31				
	4.26	25.365 ↑			
	2.21				
			8.05	242	
HC-68			6.29	1219.275	½" RB - SE Cor.
			4.52		Intersection of
					Railroad & Hunt Hwy.
	5.135				
	4.31	23.585 ↑			
	3.485				
			9.74		
TBM #7-38			8.935	1214.65	5/8" RB - S. Edge Hunt
			8.13		Hwy - 325 W. of HC-68
	5.94				
	4.75	19.40 ↑			
	3.56				

NOTE'S	BY	DATE
CHECKED	JBL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD 3-Wire Levels - 8/6-47

10/16/87

917/47

		1219.40 ↑	6.955		
TBM #7-39			5.745	1213.655	5/8" R.B. - S. Edge Hunt Hwy - 800.± W. of HC-63
			4.535		
	6.415				
	5.055	18.71 ↑			
	3.695				
			6.815		
TBM #7-40			5.475	1213.235	5/8" R.B. - S. Edge Hunt Hwy - 1340.± W. of HC-63
			4.135		
	6.365				
	5.10	18.335 ↑			
	3.835				
			6.30		
TBM #7-41			5.025	1213.31	5/8" R.B. - S. Edge Hunt Hwy - 1850.± W. of HC-63
			3.76		
	5.80				
	4.82	18.13 ↑			
	3.84				
			5.47		
TBM #7-42			4.465	1213.665	5/8" R.B. - S. Edge Hunt Hwy - 2250.± W. of HC-63
			3.46		
	7.27				
	6.15	19.815 ↑			
	5.03				

NOTE'S	BY	DATE
CHECKED	JBL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD | 3-Wire Leads - Black 7

10/6/87

817/46

1219.815
T

5.875
5.135
4.395

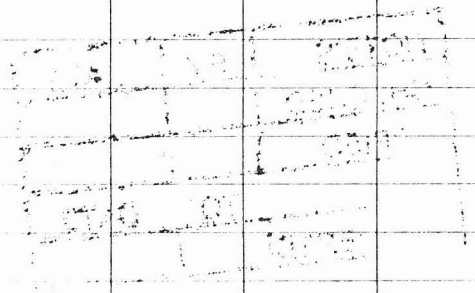
HC-67

663
1214.68

B.C in H.H - @ intersection Hunt Hwy & Arizona Av.

up 0.69 to Handhole Cover @ HC-67
Elev = 1215.33

(con't on pg 58)



NOTE'S	BY	DATE
CHECKED	JBL	11-5-87
PIED		

TO	DATE
RED	

Method	Spot	Elevations		
TBM 3-175	6.17	50.035 ↑		1243.865
TP #1	3.54	50.935 ↑	2.64	47.395
TP #2	3.62	51.345 ↑	3.21	47.725
#355			5.50	45.845
TP #2	3.41	51.135 ↑	3.62	47.725
TP #1	2.40	49.795 ↑	3.74	47.395
TBM 3-175			5.93	43.865

Lidan Dyke
R. McKamey
T. Gibson

10/26/87

817
48

B.C. in HH. Intersection - Elliot & Lindsay

Top F.H. - 500 ± E. of #3-175 on Lindsay

Top F.H. - 960 ± E. of #3-175 on Lindsay

Base of Po pole. SW Cor. Intersection of Lindsay & Entrance to High School - 1500 ± E. of Elliot -

F.H. - Loop Return

F.H. - Loop Return

B.C. in H.H. - Loop Return

NOTES	BY	DATE	TO	DATE
CHECKED	JBL	11.5.87		
COPIED				
			DELIVERED	

MCFCD — Spot Elevations

TBM 3-172	5.54	48.57 ✓			1243.03 ✓
TP #1	5.32	46.21 ✓	7.68	40.89 ✓	
TP #2	4.45	44.99 ✓	5.67	40.54 ✓	
# 255	4.15	45.19 ✓	3.95	41.04 ✓	
TP #2	5.83	46.36 ✓	4.66	40.53 ✓	
TP #1	7.78	48.65 ✓	5.49	40.87 ✓	
TBM 3-172			5.65	43.00 ✓	(1243.03)

10/22/87

817/50

cut ⌀ Top W Curb - Lindsay - 250' ± S. of Stonebridge Dr.

Top Curb - SE Cor Intersection - Stonebridge Dr. & Riata St.

Top N. Curb - Stonebridge Dr. - 300 W. of Pope Ave.

NE Cor. Conc Slab - (House now built here on Lot 24)

Top Curb - Loop Return

Top Curb - Loop Return

Top Curb - Loop Return

NOTE'S	BY	DATE
CHECKED	JBL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCO Spot Elevations

10/23/87

517/52

TBM HC-8	7.38	17.89 ✓		1210.51 ✓	CPS - E McQueen
#8855			3.33	14.56 ✓	E McQueen E K.R.
TBM #2-26			3.04	14.85 ✓ (1214.35)	Cut D' - NE Cor. Re-lead Signal - SE Cor. - K.R E McQueen

MCFCD Spot Elevations

10/22/87

317/54

TBM 2-89	2.57	14.87 ✓			1212.30 ✓
#455			5.35	09.52 ✓	
TBM 2-90			5.99	08.88 ✓	(1208.27) ✓

Cut 'D' - W. End Hdwl - E. Side McQueen
200'± N. of Houston Ave.

Base of Po Pole - SE Cor. Intersection
Houston Ave & McQueen Rd.

Cut 'D' Top Curb SE Cor. Intersection
McQueen & San Pedro St.

NOTE'S	BY	DATE
CHECKED	JBL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

10/22/87

817
56

MCFCD	Spot	Elevation			
TBM #2-11	5.62	16.67 ✓			1211.05
TP #1	6.19	16.39 ✓	6.47	10.20 ✓	
TP #2	4.20	13.43 ✓	7.16	09.23 ✓	
#555	4.97	13.27 ✓	5.13	08.30 ✓	
TP #2	7.16	16.41 ✓	4.02	09.25 ✓	
TP #1	6.64	16.87 ✓	6.18	10.23 ✓	
TBM #2-11			5.73	11.09 ✓	(1211.05)

CPS P. Pole - E. side R.R. - 200' N. of Base line

N. ICV - 600' ± W. of TBM #2-11

Top N. Curb - 100' ± W. of Intersection Juanita & MacDonald

NE Cor. sidewalk (Mesa Sprinkler Supply Co) Extending E. from Bldg.

Top Curb - Loop Return

N. ICV - Loop Return

CPS - Loop Return

NOTE'S	BY	DATE
CHECKED	JH	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD — 3-Wire Levels — Block 7 — 10/22/87 — 917/58

(con't from Pg 46)

HC-67			1214.68	B.C. in MH @ Intersection Hunt Hwy & Arizona Ave.
	8.62			
	7.27	21.95		
	5.925	↑		
			5.43	
TBM #7-43			4.10	
			2.77	
			1217.85	cut ☐ - E. Median Curb Az. Av. - 540± N. of Hunt Hwy
	6.25			
	4.90	22.75		
	3.545	↑		
			6.185	
TBM #7-44			4.795	
			3.40	
			1217.955	cut ☐ - E. Median Curb Az Av. - 1100'± N of Hunt Hwy
	5.82			
	4.385	22.34		
	2.95	↑		
			6.435	
TBM #7-45			4.93	
			1217.41	cut ☐ - E Median Curb Az Ave - 1600' N. of Hunt Hwy
			3.42	
	6.12			
	4.705	22.113		
	3.285	↑		

NOTE'S	BY	DATE
CHECKED	JHL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD 3 Wire Levels Book 7

			1222.115		
				7.03	
TBM #7-46				5.575	1216.54
				4.115	
	5.74				
	4.745	21.285			
	3.75				
				7.525	
TBM #7-47				6.55	1214.735
				5.575	
	7.10				
	5.70	20.435			
	4.30				
				6.775	
TBM #7-48				5.25	1215.185
				3.725	
	5.955				
	4.49	1219.675			
	3.025				
				6.425	
TBM #7-49				4.975	1214.70
				3.52	
	5.33				
	3.915	18.615			
	2.50				

cut 'D' - E. Median Curb AZ. Au. - 2100± N. of Hunt Hwy.

BC in N.H. - ℄ Az. Axe - ½ mile N of Hunt Hwy

cut 'D' - E. Median Curb Az Au. - 3200± N. of Hunt Hwy.

cut 'D' - E. Median Curb - Az. Axe - 3300± N. of Hunt Hwy.

NOTE'S	BY	DATE
CHECKED	SBL	11-5-87
COPIED		
	TO	DATE
DELIVERED		

11/23/87

817/60

MCFCD 3-Wire Levels - Block 7

10/22/87

317/62

		1218.615			
			6.25		
TBM # 7-50			4.86	1213.755	Cut Δ - E. Median Curb - Az. Ave - 4300± N. of Hunt Hwy
			3.465		
	6.33		-		
	4.88	18.635			
	3.43	↑			
			6.92		
TBM # 7-51			5.485	1213.15	cut Δ - E Median Curb Az. Ave. - 4300 ± N. of Hunt Hwy.
			4.05		
	5.90				
	5.065	18.215			
	4.22	↑			
			7.44		
TBM # 7-51 A			6.60±	1211.61	B.C. in H.H. - Intersection Riggs Rd & Az. Ave.
			5.77		
	6.69				
	5.09	16.70			
	3.485	↑			
			5.65		
TBM # 7-52			4.09	1212.61	CPS - Po Pole - N. Side Riggs Rd - 600 ± E. of Arizona Ave.
			2.53		
	6.11				
	4.81	17.42			
	3.565	↑			

NOTE'S	BY	DATE
CHECKED	KL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFD | 3-Wire Levels - Black | 7

		1217.42	
			2.69
HC-62			1.415
			0.145
	4.295		
	2.49	18.495	
	0.69		
			7.05
TBM #7-53			5.595
			4.105
	4.84		
	3.53	16.43	
	2.22		
			5.01
TBM #7-54			3.70
			2.39
	5.00		
	3.695	16.425	
	2.39		
			5.215
TBM #7-55			3.905
			2.595
	5.52		
	4.22	16.74	
	2.93		

10/22/87

817/64

1215.988
1216.805

PK - Ridge Rd - 150' ± W. of R.R.

1212.90

CPS - Po Pole - W. side R.R. - 600' ± N. of Ridge Rd.

1212.73

CPS - Po Pole - W. side R.R. - 1200' ± N. of Ridge Rd.

1212.52

CPS - Po Pole - W. side Railroad - 1700' ± N of Ridge Rd.

NOTE'S	BY	DATE
CHECKED	JBL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD 3-Wire Levels — Block 7

10/22/87

317
66

			1216.74		
			↑		
				4.92	
TBM #7-56				3.60	1213.14
				2.275	
	5.73				
	4.645	17.785			
	3.55	↑			
				5.205	
TBM #7-57				3.68	1214.105
				2.16	
	4.91				
	3.595	17.70			
	2.28	↑			
				5.20	
TBM #7-58				3.89	1213.81
				2.59	
	5.585				
	4.27	18.08			
	2.955	↑			
				4.165	
TBM #7-59				2.816	1215.22
				1.356	
	6.76				
	5.43	20.65			
	4.10	↑			

1213.14 — CPS - Po. Pole - W. Side Railroad - 2200 ± N of Riggs Rd.

1214.105 — CPS - Po. Pole - W. Side R.R. - 2700 ± N of Riggs Rd.

1213.81 — CPS - Po Pole - W. Side R.R. - 3200 ± N of Riggs Rd.

1215.22 — CPS - Po Pole - W Side R.R. - 3800 ± N of Riggs Rd.

NOTE'S	BY	DATE
CHECKED	JBL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD 3-Wire Levels - Blk # 7

10/22/97

517/68

			1220.65		
				5.35	
TBM #7-60				4.29	1216.36
				3.23	
	6.21				
	5.17	1221.53			
	4.14				
				6.06	
TBM #7-61				4.98	1216.55
				3.91	
	7.09				
	5.82	22.37			
	4.55				
				6.30	
RO-44				4.19	1218.18
				2.08	
	3.61				
	2.365	20.545			
	1.12				
				6.73	
TBM #7-62				5.31	1215.235
				3.90	
	5.185				
	3.805	19.04			
	2.42				

CPS - ℄ R.R. - 4400± N. of Rays Rd.

CPS - ℄ R.R. - 4800± N. of Rays Rd.

PKES - Intersection R.R. & Chandler Hgts Rd.

CPS - Po Pole - W. side R.R. - 500± N. of Chandler Hgts Rd.

NOTE'S	BY	DATE
CHECKED	JBL	11.5.97
COPIED		
	TO	DATE
DELIVERED		

NCFCD 3-Wire Levels - Block 7

10/22/87

817/70

		1219.04			
		↑			
			5.035		
TBM #7-63			3.625	1215.415	CBS - Pa. Pole - W. Side
			2.225		R.R. - 1600± N of
	5.715				Chandler Hgts Rd.
	4.345	19.76			
	2.97	↑			
			4.44		
TBM #7-64			3.03	1216.73	CBS - Pa. Pole - W Side
			1.625		R.R. - 2100± N. of
	5.645				Chandler Hgts Rd
	4.25	20.98			
	2.86	↑			
			5.42		
TBM #7-65			4.035	1216.945	CBS - Pa. Pole - W Side
			2.65		R.R. - 2690± N of
	5.045				Chandler H
	3.655	20.60			
	2.265	↑			
			5.445		
TBM #7-66			4.055	1216.545	CBS - Pa. Pole - W. Side
			2.665		R.R - 3005± N. of
	5.49				Chandler Hgts Rd.
	4.10	20.645			
	2.71	↑			

NOTE'S	BY	DATE
CHECKED	JBL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD — 3-Wire Levels — Block 7

10/22/87

517/72

		1220.645 ↑		
			4.77	
TBM # 7-67			3.375	1217.27
			1.98	
	4.87			
	3.47	20.74		
	2.07	↑		
			4.95	
TBM # 7-68			3.565	1217.175
			2.18	
	6.59			
	5.18	22.355		
	3.77	↑		
			4.96	
TBM # 7-69			3.58	1218.775
			2.20	
	6.87			
	5.465	24.24		
	4.06	↑		
			5.36	
TBM * 7-70			4.48	1219.76
			3.10	
	6.50			
	5.38	25.14		
	4.66	↑		

CPS - Po. Pole - N. side R.R. - 3500 ± N of Chandler Hgts Rd.

CPS - P3 Pole - W. side R.R - 4000 ± N of Chandler Hgts Rd. -

CPS - Po. Pole - W. side R.R. - 4500 ± N. of Chandler Hgts. Rd.

CPS - P3 Pole - W. side R.R - 5000 ± N. of Chandler Hgts. Rd.

NOTE'S	BY	DATE
CHECKED	JBC	11-5-87
COPIED		
	TO	DATE
DELIVERED		

MCFCD	3-Wire Levels		Block 7
		1225.14 ↑	
			4.32
HC-57			3.59
			2.87
	4.495		
	3.17	24.72 ↑	
	1.84		
			6.02
TBM #7-71			4.57
			3.12
	4.455		
	3.07	23.22 ↑	
	1.68		
			5.30
TBM #7-72			3.91
			2.52
	4.80		
	3.41	22.72 ↑	
	2.025		
			4.94
TBM #7-73			3.55
			2.16
	5.10		
	3.72	22.89 ↑	
	2.34		

L. Van Dyke
R. Mathiowetz 10/22/87
C. Weides 10/27/87

917/74

1221.522 (known 3-wire point value)
~~1221.55~~

CPS- & Ocotillo Rd - 150± W of R.R.

1220.15

CPS- P.P. Pole - W. side R.R. - 600± N of Ocotillo Rd

1219.31

CPS- P.P. Pole W. side R.R. - 1100± N of Ocotillo Rd

1219.17

CPS- P.P. Pole W. side R.R. - 1700± N of Ocotillo Rd

NOTE'S	BY	DATE
CHECKED	JBL	11/5/87
COPIED		
	TO	DATE
DELIVERED		

Traced	3-Wire Levels		Block 7
		1222.89	
			5.31
TBM #7-74			3.91
			2.51
	6.705		
	5.325	24.305	
	3.945		
			3.855
TBM #7-75			2.45
			1.04
	5.22		
	3.83	25.685	
	2.44		
			5.41
TBM #7-76			4.02
			2.635
	5.11		
	3.73	25.395	
	2.35		
			5.46
TBM #7-77			4.03
			2.69
	5.10		
	3.725	25.04	
	2.35		

1/27/87

317
76

1218.93 — CPS - B.S.L. N. 5.3± R.R. - 2300± N. of Ocotillo Rd

1221.855 — CPS - ℄ R.R. - 2800± N. of Ocotillo Rd

1221.665 — CPS - ℄ R.R. - 3300± N. of Ocotillo Rd.

1221.315 — CPS - ℄ R.R. - 3900± N of Ocotillo Rd

NOTE'S	BY	DATE
CHECKED	JBL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD | 3-Wire Levels: Book 7 | 10/27/87 | 817/73

		1225.04 ↑			
			5.37		
TBM 7-78			4.01	1221.03	CPS - & R.R. - 4900± N. of Ocotillo Rd.
			2.63		
	5.005				
	3.63	24.66 ↑			
	2.245				
			5.475		
TBM 7-79			4.10	1220.56	CPS & R.R. - 4700± N. of Ocotillo Rd.
			2.725		
	5.84				
	4.99	25.55 ↑			
	4.14				
			7.645		
HC-52			4.785	1218.765	CPS - & Queen Creek - 100± W. of R.R.
			5.925	0.007	⟨1218.758⟩

see Bk 817 Pg 72

NOTE'S	BY	DATE
CHECKED	JBL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

McCCD	3. W.L. -	Level	Slope - T
RD-42			
	4.645		
	3.135	31.78	
	1.63	↑	
			4.46
TBM #7-80			3.175
			1.885
	3.865		
	2.505	31.11	
	1.14	↑	
			6.45
TBM #7-81			5.065
			3.635
	6.035		
	4.69	30.735	
	3.30	↑	
			4.475
HC-58			3.045
			1.615
	4.35		
	2.825	30.515	
	1.395	↑	

10/27/87

817/30

1223.645	½" RB on N.H. - Intersection McQueen & Costilla Rd (Geo Pg 13)
1228.605	Top Bolt - F.H. - N. side Ocotillo - 560± W. of McQueen
1226.045	½" R.B. - N. side Ocotillo - 1100± W. of McQueen
1227.69	Lead & Tack - Intersection Ocotillo & Canal - 1650± W. of McQueen

E'S	BY	DATE
CKED	JBL	11.5.87
ED		
	TO	DATE
VERED		

MCFCD | 3-Wire Levels

10/27/87

819/32

		1230.515 ↑			
			5.865		
TBM #7-81			4.465	1226.05	½" R.B. - Loop Return
			3.07		
	6.725				
	5.34	31.59			
	3.955	↑			
			4.13		
TBM #7-80			2.775	1228.615	Top Sw't - F.H. - Loop Return
			1.42		
	4.97				
	3.705	32.32			
	2.44	↑			
			5.22		
RO-42			3.61	1228.65	½" R.B. in H.H. - Intersection McQueen & Ocotillo Rd. ⟨1223.645⟩
			2.11		
	6.21			0.005 ↘	
	4.81	33.455			
	3.40	↑			
			3.65		
TBM #7-82			2.03	1231.425	CPS - Po. Pole - S. side Ocotillo - 600± E. of McQueen.
			0.41		
	4.22				
	2.21	34.635			
	2.20	↑			

NOTE'S	BY	DATE
HECKED	JBL	11.5.87
PIED		
	TO	DATE
LIVERED		

MCFCD | 3-Wire Levels - | Block 7

		1234.635		
				5.12
TBM #7-33				4.01
				2.91
	5.905			
	5.17	35.795		
	4.445			
				4.35
MC-59				3.54
				2.72
	4.51			
	3.695	35.95		
	2.87			
				6.065
TBM #7-83				5.335
				4.605
	5.02			
	4.13	34.745		
	2.24			
				4.56
TBM #7-32				3.34
				2.115
	3.63			
	2.025	33.43		
	0.42			

10/27/87

317/24

1230.625 — ½" R.B. - S Side Scott Rd - 1000± E. of McQueen

1232.255 / — CPS - E Scott Rd - 1300± E. of McQueen

1230.615 — ½" R.B. - Loop Return

1231.405 — CPS - Po. Pole - Loop Return

NOTE'S	BY	DATE
CHECKED	JBL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD | 3-Wire Levels - Block 7

1233.43

6.21

R0-42 | 4.80

3.39

10/27/37

817/86

1228.63 | ½" R.B. - Log Return

0.015 → ⟨1228.645⟩

NOTE'S		DATE
CHECKED	[illegible]	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD — 3-Wire Levels — Block 7

BO-45			
	4.855		
	3.495	28.535	
	2.13		
			7.265
TBM #7-84			6.605
			5.235
	7.00		
	5.64	27.57	
	4.28		
			8.245
TBM #7-85			6.87
			5.49
	6.87		
	5.975	26.675	
	5.08		
			6.68
TBM #7-86			5.83
			4.985
	8.41		
	7.46	23.385	
	6.515		

10/27/87

517
53

1225.033 (from 3-wire program)

1225.04 — B.C. in H.K. - Intersection McQueen & Chandler Hgts. Rd. (see Pg 30)

1221.93 — ½" RB - N. side Chandler Hgts Rd - 540± W. of McQueen

1220.70 — ½" RB - N side Chandler Hgts Rd - 1200± W. of McQueen Rd.

½" RB - N side Chandler Hgts Rd - 1550 ± W. of McQueen Rd

NOTE'S		DATE
CHECKED	JBL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD 3-Wire Levels - Block 7

10/27/87

617
90

			1228.305		
			↑	4.835	
VC-29				3.915	1224.39	Pk & S. - ± Chandler Hgts Rd - 1950± W. of McQueen Rd
				2.99	
	4.65				
	3.73	28.12			
	2.805	↑			
				8.215	
TBM #7-86				7.275	1220.845	½" R.B. - Loop Return
				6.325	
	6.96				
	6.125	26.97			
	5.285	↑			
				7.175	
TBM #7-85				6.27	1220.10	½" R.B. - Loop Return
				5.37	
	8.355				
	6.985	27.685			
	5.625	↑			
				7.12	
TBM #7-84				5.75	1221.935	½" R.B. - Loop Return
				4.38	
	8.585				
	7.22	29.155			
	5.36	↑			

NOTE'S	BY	DATE
CHECKED	JBL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD 3-Wire Levels - Block 7

1229.155

5.47

Ro-95 4.11

2.76

10/27/87

917/92

1225.045 B.C. in H.H. - Loop Return

0.005 (1225.04)

1225.043 (from 3-wire program)

(1225.033)

+.01

NOTE'S	BY	DATE
CHECKED	JBL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

10/27/87

1 MCFCD	3-Wire Levels - Back		
RD-41			
	6.17		
	4.80	63.86	
	3.43	↑	
			7.365
TBM #8-1			6.055
			4.74
	6.87		
	5.445	63.25	
	4.03	↑	
			7.845
TBM #8-2			6.39
			4.93
	7.615		
	6.245	63.105	
	4.875	↑	
			7.67
TBM #8-3			6.25
			4.83
	7.325		
	5.95	62.805	
	4.57	↑	

1259.06	1" I.P. in H.H. - Queen Creek & Canal (Bk 812 Pg 64)	
1257.805	cut ⊡ - E. TCD - 30' W. of Canal - 530'± S. of Queen Creek Rd.	
1256.86	cut ⊡ - E. TCD - 30' W. of Canal - 1100'± S. of Queen Creek Rd	
1256.355	cut ⊡ - W. TCD - 35' W. of Canal - 1650'± S. of Queen Creek Rd.	

NOTES	BY	DATE
CHECKED	JH	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD 3-Wire Leads - Block 8

10/27/87

817/96

		1262.805 ↑			
			7.605		
TBM #8-4			6.225	1256.58	cut 'D' - E. TCD - 30' W. of Canal - 2200± S. of Queen Creek Rd.
			4.5		
	7.355				
	6.015	62.595 ↑			
	4.67				
			7.34		
TBM #8-5			5.925	1256.67	cut 'D' - E. TCD - 30' W. of Canal - 2805± S. of Queen Creek Rd
			4.52		
	7.325				
	5.97	62.64 ↑			
	4.61				
			7.38		
VC-27			6.285	1256.355	½" R.B. - 50' W. of Canal - 3300± S. of Queen Creek Rd.
			5.185		
	7.365				
	5.965	62.32 ↑			
	4.57				
			5.94		
TBM #8-6			4.565	~~1257.755~~	cut 'D' - W. TCP - Canal - 2900± S. of Queen Creek Rd.
			3.195		
	6.225				
	4.85	62.605 ↑			
	3.48				

FILES		DATE
CHECKED	JKL	11.587
COPIED		
	TO	DATE
DELIVERED		

MCFCD — 3 Wire Levels - Block 8

10/27/87

317/93

		1262.605 ↑	6.25	
TBM #8-7			4.88	1257.725
			3.515	
	6.155			
	4.785	62.51 ↑		
	3.42			
			6.135	
TBM #8-8			4.755	1257.755
			3.375	
	6.135			
	4.80	62.555 ↑		
	3.46			
			6.30	
TBM #8-9			4.825	1257.73
			3.445	
	6.055			
	4.91	62.64 ↑		
	3.76			
			5.695	
RG-43			4.48	1258.16
			3.27	
	4.44			
	2.93	61.09 ↑		
	1.42			

			cut 'D' - W. TCD Canal - 4400' ± S. of Queen Creek Rd.
			Cut 'D' - W. TCD - Canal 4900' ± - S. of Queen Creek Rd
			Cut D - W. TCD - Canal 5500' ± - S of Queen Creek Rd.
			CRS - & Ocotillo Rd @ Canal -

DIE'S CHECKED JBL DATE 11.5.87
COPIED
TO DATE
DELIVERED

MCFCD — 3-Wire Levels — Block 8

		1261.09 ↑		
			8.29	
TBM #8-10			6.75	1254.34
			5.21	
	7.21			
	5.54	59.88 ↑		
	3.87			
			5.09	
TBM #8-11			3.48	1256.40
			1.87	
	5.865			
	4.30	60.70 ↑		
	2.74			
			5.455	
VC-28			3.645	1257.055
			1.83	
	6.975			
	5.60	62.655 ↑		
	4.22			
			4.865	
TBM #8-12			3.53	1259.075
			2.29	
	5.06			
	3.73	62.805 ↑		
	2.40			

10/27/87

317
105

B.C. in M.H. - Intersection Ocotillo & Gilbert

CPS - Po. Pole - E. side of Gilbert - 650± S. of Ocotillo Rd.

CPS - @ Gilbert Rd - 1320± S. of Ocotillo Rd. -

Spk - Po. Pole - E. of Gilbert - 1850±

E'S		DATE
KED		11-87
ED		
	TO	DATE
VERED		

MCFCD 3-Wire Levels - Block 8

10/27/87

		1262.805 ↑		
			6.055	
TBM #8-13			4.74	1258.065
			3.725	
	4.615			
	3.97	62.035 ↑		
	3.33			
			5.645	
TBM #3-13A			5.01	1257.025
			4.375	
	5.64			
	4.79	61.815 ↑		
	3.945			
			5.39	
TBM #8-14			4.58	1257.235
			3.77	
	5.51			
	3.98	61.215 ↑		
	2.45			
			5.595	
TBM #8-15			4.00	1257.215
			2.405	
	5.97			
	4.43	61.645 ↑		
	2.90			

Spk - P. Pole - E Side Gilbert - 2400± S. of Ocotillo Rd

Bar & Cap - ℄ Gilbert Rd - 1/3 mile South of Ocotillo Rd

CPS - P. Pole - E. Side Gilbert Rd - 2900± South of Ocotillo Rd

CPS - P. Pole - E Side Gilbert Rd - 3520± South of Ocotillo Rd.

OTE'S	BY	DATE	
ECKED	JBL	11/5/87	
PIED			
	TO	DATE	
LIVERED			

MCFCD — 3-Wire Levels — Block 8

10/27/87

317/104

		1261.645 ↑		
			5.91	
TBM #8-16			4.31	1257.335
			2.71	
	6.145			
	4.58	61.945 ↑		
	3.02			
			5.91	
TBM #8-17			4.335	1257.58
			2.77	
	5.785			
	4.52	62.10 ↑		
	3.265			
			6.235	
RO-47			5.29	1256.81 (1256.817)
			4.35	
	5.835			
	4.42	1261.23 ↑		
	3.00			
			5.13	
TBM #8-18			3.70	1257.53
			2.565	
	5.075			
	3.82	61.35 ↑		
	2.565			

Top HandHole El. = 1257.09 see Pg 126

CPS - PB Pole - E. side Gilbert Rd - 4150± South of Cactillo Rd.

CPS - PB Pole - E. side Gilbert Rd - 4800± South of Cactillo Rd.

B.C. (in H.H. - Intersection Gilbert & Chandler Hgts Rd.

CPS - PB Pole - E. side of Gilbert Rd. 560± S. of Chandler Hgts Rd

NOTE'S	BY	DATE
CHECKED	JBL	11/5/87
COPIED		
	TO	DATE
DELIVERED		

MCFCD 3-Wire Levels — Book 8

10/27/87

317/106

		1261.35 ↑		
			5.265	
TBM #8-19			4.02	1257.33
			2.765	
	5.50			
	4.25	61.58 ↑		
	2.99			
			6.03	
TBM #8-20			4.72	1256.86
			3.415	
	4.93			
	3.60	60.46 ↑		
	2.27			
			5.785	
TBM #8-21			4.46	1256.00
			3.145	
	4.55			
	3.22	59.22 ↑		
	1.89			
			6.665	
↓C-30			5.33	1253.89
			4.00	
	4.80			
	3.67	57.56 ↑		
	2.54			

CPS - Po Pole - E. side Gilbert Rd - 1050± South of Chandler Hgts. Rd.

CPS - Po Pole - E. Side Gilbert Rd - 1600± South of Chandler Hgts. Rd.

CPS - Po Pole - E. Side Gilbert Rd - 2200± South of Chandler Hgts Rd

B.C. - ½ mi. S. of Chandler Hgts Rd - & Gilbert Rd.

TE'S		DATE
ECKED	JBL	11.5.87
PIED		
	TO	DATE
IVERED		

MCFCD — 3-Wire Levels — Blue Stake

		1257.56	
			5.415
TBM #8-22			4.26
			3.11
	4.72		
	3.575	56.875	
	2.425		
			5.47
TBM 8-23			4.32
			3.165
	4.36		
	3.22	55.775	
	2.075		
			4.46
TBM #8-24			3.35
			2.24
	4.52		
	3.37	55.795	
	2.21		
			5.19
TBM #8-25			4.03
			2.875
	5.275		
	4.13	55.895	
	2.99		

L. Jon Dyke
R. McMurray
T. Craven

10/28/87

317/108

1253.30	CPS - Po. Pole - E. Side of Gilbert Rd. - 3100± S. of Chandler Hgts Rd
1252.555	CPS - Po. Pole - E. Side of Gilbert Rd - 3550± S. of Chandler Hgts Rd
1252.425	CPS - Po Pole - E. Side of Gilbert Rd - 4000± S. of Chandler Hgts Rd.
1251.765	CPS - Po. Pole - E. Side of Gilbert Rd - 4450± S. of Chandler Hgts Rd.

OTE'S		DATE
HECKED	JH	11.5.87
)PIED		
	TO	DATE
:VERED		

MCFCD | 3-Wire Levels - Block 8

		1255.895 ↑	
			5.42
TBM # 8-26			4.25
			3.075
	5.075		
	4.28	55.925	
	3.49	↑	
			5.055
RO-48			4.10
			3.145
	3.57		
	2.435	54.26	
	1.30	↑	
			5.54
TBM # 8-27			4.15
			2.77
	5.37		
	4.04	54.15	
	2.70	↑	
			6.025
TBM # 8-28			4.605
			3.19
	4.87		
	3.53	53.025	
	2.18	↑	

10/28/87

317/110

1251.645 ✓ CPS - Po. Pole - E. Side of Gilbert Rd - 4900± S. of Chandler Hgts Rd.

1251.827 (FROM 3-WIRE PROGRAM) I.P. in MH - Intersection Gilbert & Riggs Rd.

(1251.95 = EL @ Rd Surface - RO-48 - See Pg 122)

1250.11 CPS - Po. Pole - N. Side Riggs Rd - 500± W. of Gilbert Rd.

1249.545 CPS - Po. Pole - N. Side of Riggs Rd - 1050± W. of Gilbert Rd.

NOTE'S		DATE
CHECKED	JBL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD — 3-Wire Levels — Black 8

10/28/87

317
112

			1253.075 ↑	6.585	
TBM #8-29				5.18	1247.895
				3.78	
	5.26				
	4.33		52.225 ↑		
	3.40				
				5.46	
HC-65				4.44	1247.776
				3.425	
	5.65				
	3.92		51.705 ↑		
	2.20				
				7.19	
TBM #8-29A				5.62	1246.085
				4.04	
	4.05				
	2.51		48.595 ↑		
	0.97				
				7.48	
TBM #8-30				6.08	1242.515
				4.675	
	5.025				
	3.61		46.125 ↑		
	2.195				

cut 'D'
N. Rail - Conc Ditch - S. Side Riggs Rd - 1600'± W. of Gilbert

CPS - ℄ Riggs Rd. 2000'± W. of Gilbert Rd

Bar & Cap - ℄ Riggs Rd - ½ Mile W. of Gilbert Rd.

cut 'D'
N. Rail - Conc Ditch - S. Side Riggs Rd - 3250'± W. of Gilbert Rd

E'S		DATE
CKED	JDL	11.5.87
IED		
	TO	DATE
VERED		

MCFCD | 3-Wire Levels - Black 8

			1246.125		
				6.97	
TBM #8-31				5.58	1240.545
				4.185	
	5.46				
	4.07		44.615		
	2.68				
				7.00	
TBM #8-32				5.58	1239.035
				4.15	
	5.33				
	4.46		43.495		
	3.09				
				6.47	
TBM #8-33				5.04	1238.455
				3.61	
	5.57				
	4.645		43.10		
	3.72				
				7.26	
TBM #8-34				6.16	1236.94
				5.06	
	5.12				
	3.94		40.88		
	2.765				

10/23/87

817
114

1240.545 — cut □' - N. TCD - S. side of Riggs Rd - 3800' ± W. of Gilbert

1239.035 — cut □' - N. TCD - S. side of Riggs Rd - 4350' ± W. of Gilbert Rd

1238.455 — cut □' - N. TCD - S. side of Riggs Rd - 4900' ± W. of Gilbert

1236.94 — B.C. in H.H. @ Intersection Riggs & Copper Rd.

NOTE'S	BY	DATE
CHECKED	SBL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

10/23/87

MCFCD 3-Wire Levels - Block 8

			1240.88		
			↑		
				6.40	
TBM #8-35				4.425	1235.955
				3.46	
	4.74				
	3.43		39.385		
	2.12		↑		
				6.27	
TBM #8-34				4.875	1234.51
				3.485	
	5.26				
	3.88		38.39		
	2.505		↑		
				6.395	
TBM #8-37				5.155	1233.235
				3.92	
	5.41				
	4.165		37.40		
	2.92		↑		
				5.99	
TBM #8-38				4.71	1232.69
				3.44	
	5.79				
	4.48		37.17		
	3.18		↑		

cut Δ' - Top Curb - S. Side of Riggs Rd. 530± W. of Cooper

cut Δ' - Top Curb - South Side of Riggs Rd. - 1070± W. of Cooper

cut Δ' - Top Curb - South Side of Riggs Rd. - 1600± W. of Cooper

cut Δ' - Top Curb - South Side of Riggs Rd - 2150± W. of Cooper

NOTE'S	BY	DATE
CHECKED	SHL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD — 3-Wire Levels — Black & Red

		1237.17 ↑		
				7.40
TBM #8-39				5.86
				4.31
	3.955			
	2.95	34.26		
	1.94	↑		
				3.945
TBM #8-40				2.845
				1.74
	3.205			
	1.995	33.41		
	0.78	↑		
				3.82
TBM #8-41				2.505
				1.20
	5.50			
	4.225	35.13		
	2.95	↑		
				5.96
TBM #8-42				4.60
				3.25
	4.12			
	2.73	33.26		
	1.335	↑		

10/28/87

817
118

1231.31	B.C. in M.H. - & Riggs Rd - ½ Mile W. of Cooper Rd.
1231.415	cut Di - N. TCD. - South side of Riggs Rd - 3050± W. of Cooper
1230.905	cut Di - N. TCD - S. side of Riggs Rd - 3500± W. of Cooper Rd.
1230.53	cut Di - N. TCD - S. Side of Riggs Rd - 4000± W. of Cooper Rd.

NOTE'S	BY	DATE
CHECKED	JBL	11.5.87
COPIED		
TO		DATE
DELIVERED		

MCFCD 3-Wire Levels - Block 3

		1233.26		
		↑		4.55
TBM #8-43				3.21
				1.87
	3.58			
	2.90	32.95		
	2.225	↑		
				4.11
TBM #8.44				3.12
				2.13
	4.63			
	3.725	33.555		
	2.82	↑		
				6.54
HC-64				5.67
				4.79
@ HC-64		Road Surface		(5.12)

10/23/87

8/7
120

1230.05 Cut ☐ - N. TCD - South side of Riggs Rd - 4500± W of Copper Rd.

1228.83 Cut ☐ - N. TCD - South side of Riggs Rd - 4350± W of Copper Rd

1227.885 B.C. in H.H. - Intersection Riggs Rd & McQueen Rd.

0.02

<1227.905>

(1228.435)

(See Pg 34)

NOTE'S	BY	DATE
CHECK	DBL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

Pg 34 HC-64

MCFCD | 3-Wire - Levels - Block 8

10/23/37

917
122

RO-48				
	6.69			
	5.125	56.95		
	3.57	↑		
			4.75	
TBM #8-45			3.39	
			2.03	
	5.68			
	4.365	57.925		
	3.06	↑		
			5.93	
HC-66			4.585	
			3.24	
	5.68			
	4.33	57.67		
	2.99	↑		
			5.415	
TBM #8-45			4.11	
			2.805	
	4.57			
	3.21	56.77		
	1.85	↑		

1251.825 — 1" I.P. in M.H. - Intersection Riggs & Gilbert Rd (see Pg 110)

5.00 - 1251.95 Rd. Surface @ RO-48

1253.56 — CPS - Po. Pole - N. Side Riggs Rd - 580± E. of Gilbert Rd.

1253.349 — CPS - @ Riggs Rd - 1100± W. of Gilbert Rd.

1253.56 — CPS - Po. Pole - Loop Return

NOTE'S	BY	DATE
CHECKED	JBL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD | 3-Wire Levels - | Block 8

1256.77

6.515

RO-48 | 4.95

3.385

10/28/87

317
134

1251.832

~~1251.82~~

0.005

1" I.P. in H.H. - Loop Return

(1251.825)

+.007

(1251.825)

NOTE'S	BY	DATE
CHECKED	JKA	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD | 3-Wire Levels - Block 8

RO-47

6.885
5.20 62.01
3.52

TBM # 8-46

4.35
3.19
2.04

5.87
4.55 63.37
3.24

4.75
HC-61
3.13
1.60

4.485
2.905 63.095
1.325

5.60
TBM II 8-46
4.23
2.97

4.93
3.73 62.545
2.525

10/23/87

317
126

1256.817 (from 3-wire program)

1256.81 B.C. in M.H. - Intersection Gilbert & Chandler Hgts Rd (see Pg 104)

4.92 = 1257.09
Top Hand hole @ RO-47

1258.82 CPS - Po. Pole - S. side Chandler Hgts Rd — 560± W. of Gilbert

20V
1260±9 CPS - E Chandler Hgts Rd 1100± W. of Gilbert

1258.815 CPS - Po. Pole - Loop Return

NOTE'S	BY	DATE
CHECKED	JH	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCO | 3-Wire Levels - | Block 8

1262.545

7.38

80.47 | 5.75

4.115

10/28/87

317
123

1256.795 — B.C. in H.H. - Loop Return

1256.804 — 0.015 → (1256.81)

(1256.817)

-.013

NOTE'S	BY	DATE
CHECKED	JBL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD — 3-Wire Levels - Book 8

RO-47			
	5.93		
	4.26	61.07	
	2.60	↑	
			7.165
TBM #3-47			5.33
			3.60
	4.99		
	3.33	59.02	
	1.68	↑	
			6.72
RO-46			5.17
			3.62
	4.54		
	3.545	57.395	
	2.55	↑	
			5.51
TBM #3-48			4.42
			3.32
	3.65		
	2.655	55.63	
	1.66	↑	

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R. McMurray
T. Craven

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817
130

.817	
1256.81	S.C. in M.H. - Intersection Gilbert & Chandler Hgts Rd
1255.69	CPS - P.P. - S. side Chandler Hgts Rd. - 680 ± W. of Gilbert Rd
1253.85	CPS & Chandler Hgts Rd - 1320 ± W. of Gilbert Rd
1252.975	CPS - P.P. - S. side Chandler Hgts Rd. - 1740 ± W. of Gilbert Rd.

NOTE'S	BY	DATE
CHECKED	JL	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD 3-Wire Levels - Block 8

		1255.63 ↑	
			4.125
TBM #3-49			3.27
			2.42
	3.27		
	2.37	1254.73	
	1.47	↑	
			7.80
HC-60			6.13
			4.46
	7.68		
	6.01	54.61	
	4.33	↑	
			3.15
TBM #3-49			2.25
			1.35
	4.25		
	3.455	55.815	
	2.66	↑	
			3.96
TBM #3-43			2.875
			1.73
	6.14		
	4.965	57.935	
	3.79	↑	

10/29/87

317
132

1252.36	CRS - B.B.C. - S. side Chandler Hgts Rd. - 2100± W. of Gilbert Rd.
1248.60 614	B.C. in H.H. - ℄ Chandler Hgts Rd - ½ Mile W of Gilbert Rd
5.82 = 1243.924 Elec. H.H. Cover @ HC-60	
1252.36	CRS - B.B.C. - Loop Return
1252.77	CRS - B.B.C. - Loop Return

NOTE'S	BY	DATE
CHECKED	JH	11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFCD	3-Wire Levels -	Black 8
	1257.935 ↑	
		5.025
RO-46		4.09
		3.16
	6.98	
	5.44 59.785	
	3.90 ↑	
		5.285
TBM #8-47		3.61
		1.93
	7.16	
	5.44 61.115	
	3.73 ↑	
		6.075
RO-47		4.33
		2.585

10/29/87

317
134

1253.845 CPS - Loop Return

1255.675 CPS - Pole - Loop Return

1256.799 (From 3-wire levels program)
~~1256.785~~

3.6 m. HH - Loop Return
~~1256.81~~
(1256.817)

0.025

NOTE'S	BY	DATE
CHECKED		11.5.87
COPIED		
	TO	DATE
DELIVERED		

MCFED | For - Woods & Assoc.

(See Bk. 808 - Pg. 96)

TP 'B' → TP 'C' → TP 'E'

$\Delta \#1 = 179°49'49"$

$\Delta \#4 = 359°13'35"$

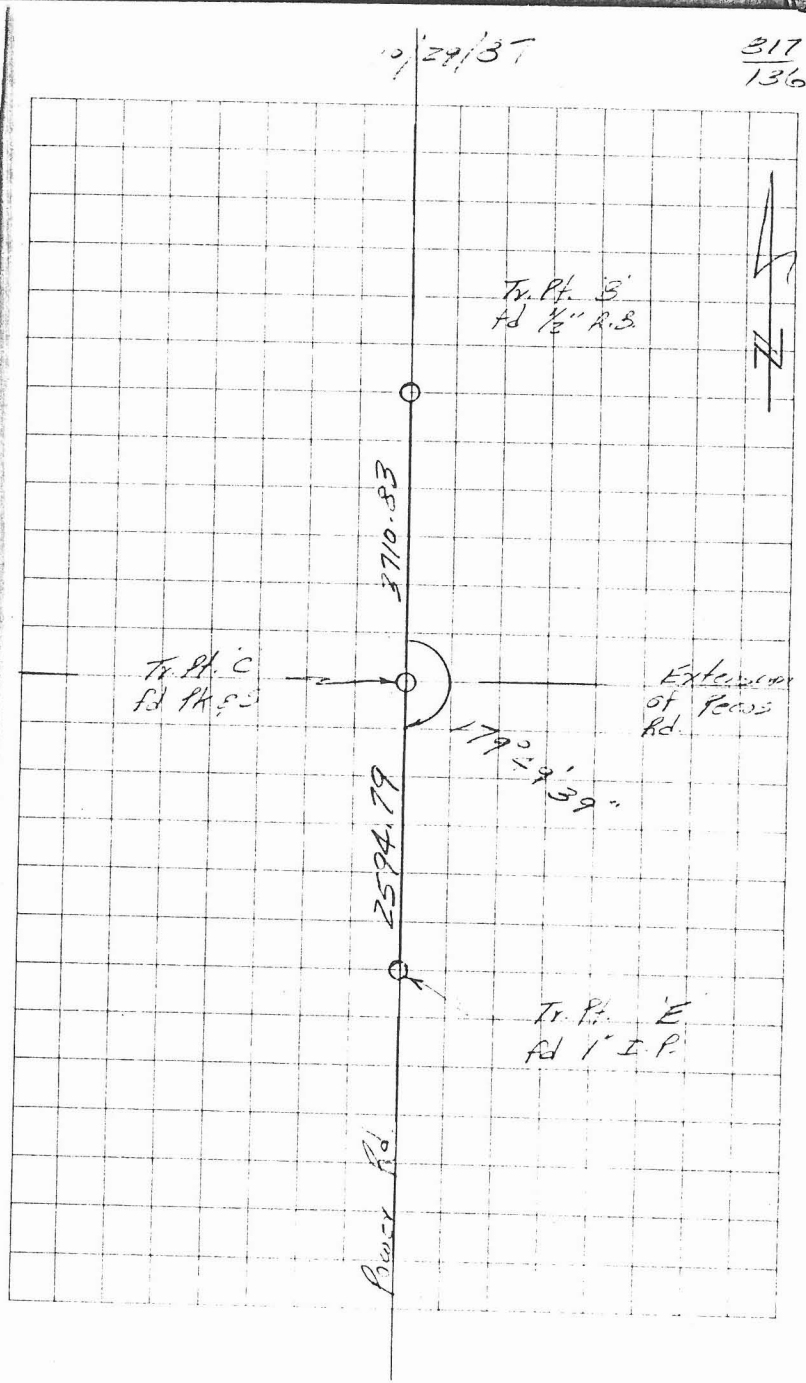
$MN4 = 179°49'39"$

HD to TP 'E'

$Z4 = 89°54'48"$

$SD = 2594.81$

$HD = 2594.905$



317/136

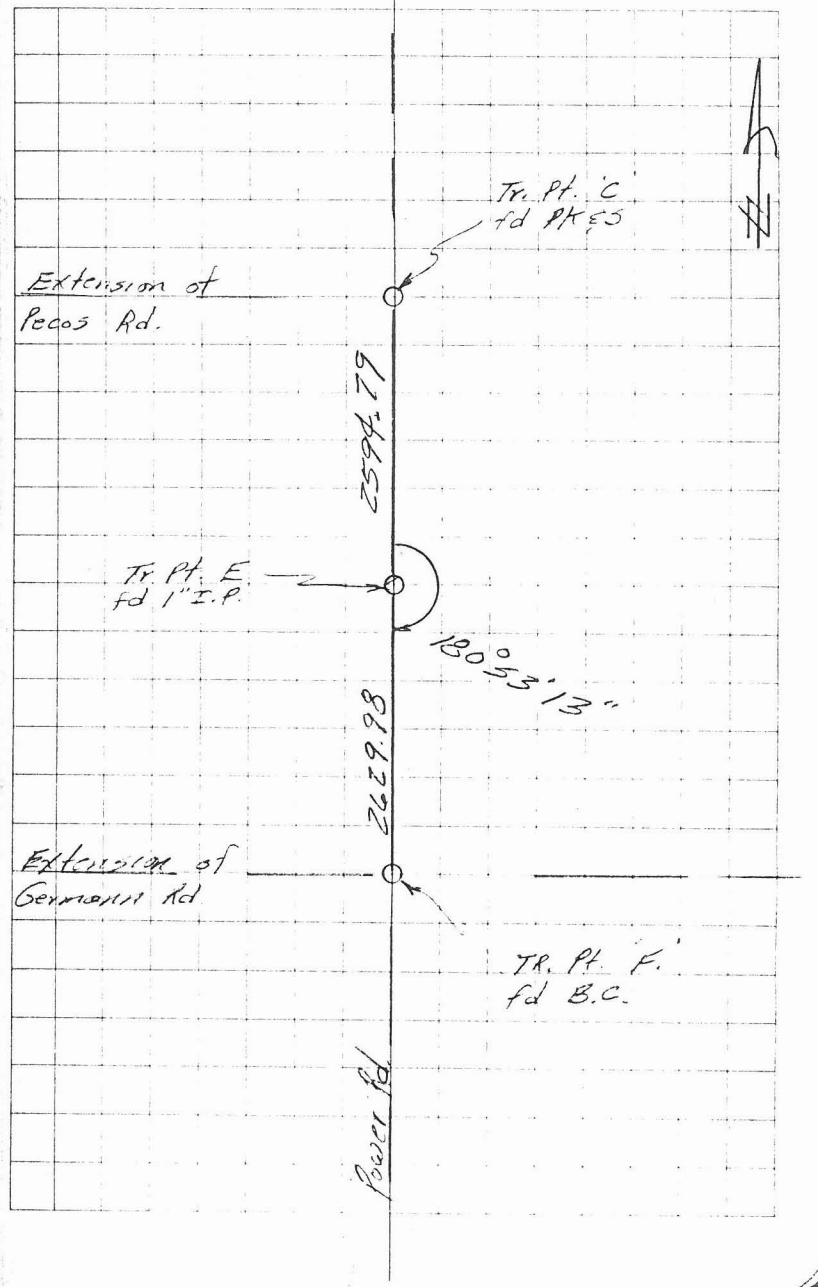
MCFCD | Woods & Assoc. | 10/29/87 | 917/133

TP C' → TP E' → TP F'

∠#1 = 180°53'06"
∠#4 = 3°32'53"
NN∠ = 180°53'13"

HD to TP C'
ZA = 89°58'24"
SD = 2594.78
HD = 2594.78

HD to TP F'
ZA = 89°53'26"
SD = 2629.98
HD = 2629.975



MCFCD Woods & A-500.

TP E' → TP F' → TP G'

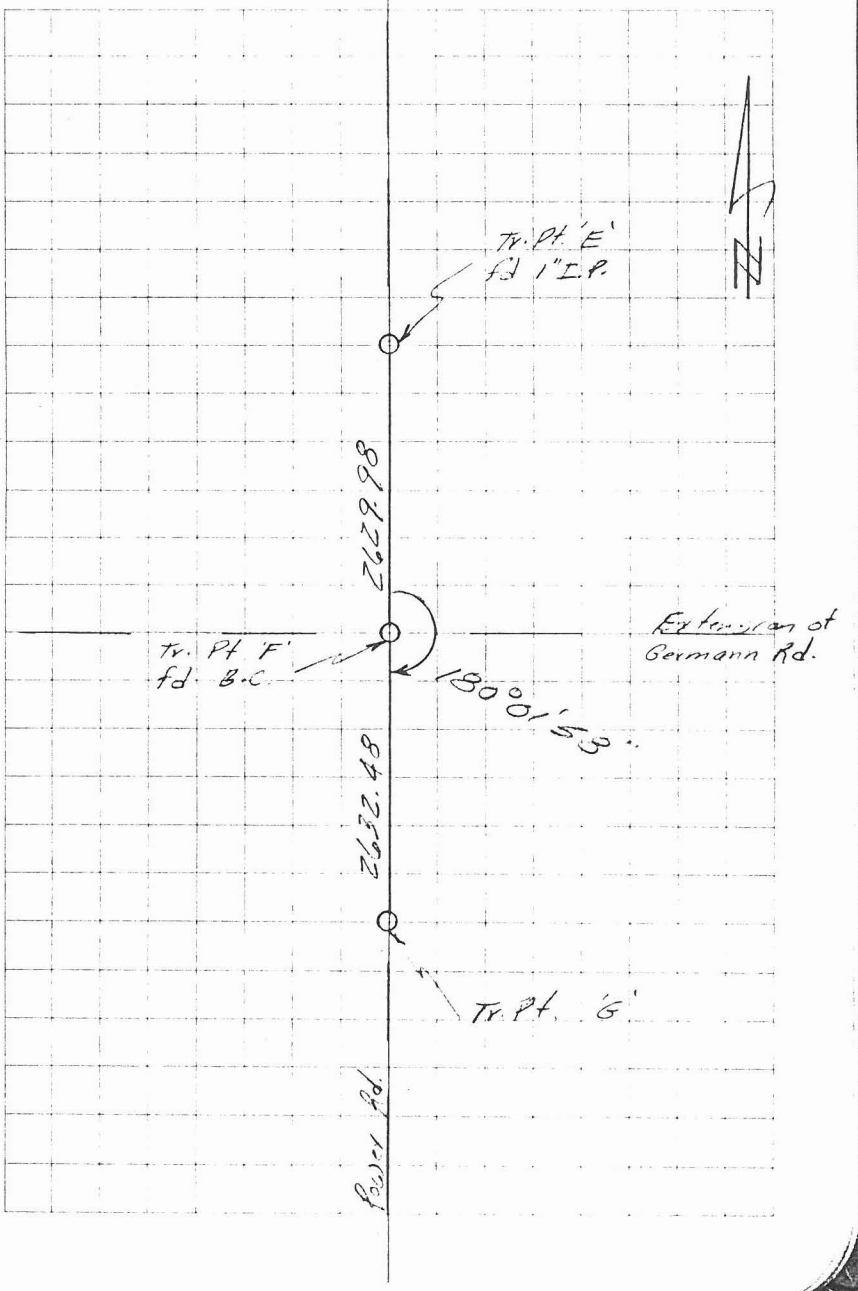
∠#1 = 180°02'05"
∠#4 = 00°07'53"
MN ∠ = 180°01'58"

HD to TP E'
ZA = 90°00'03"
SD = 2629.98
HD = 2629.98

HD to TP G'
ZA = 89°50'07"
SD = 2632.48
HD = 2632.47

10/29/87

317/140



1 MCFCD Woods & Assoc.

10/29/87

817/142

TP 'F' → TP 'G' → TP 'H'

∠#1 = 179°59'53"

∠#4 = 359°59'06"

MNK = 199°59'47"

HD to TP 'F'

ZA = 90°03'21"

SD = 2632.49

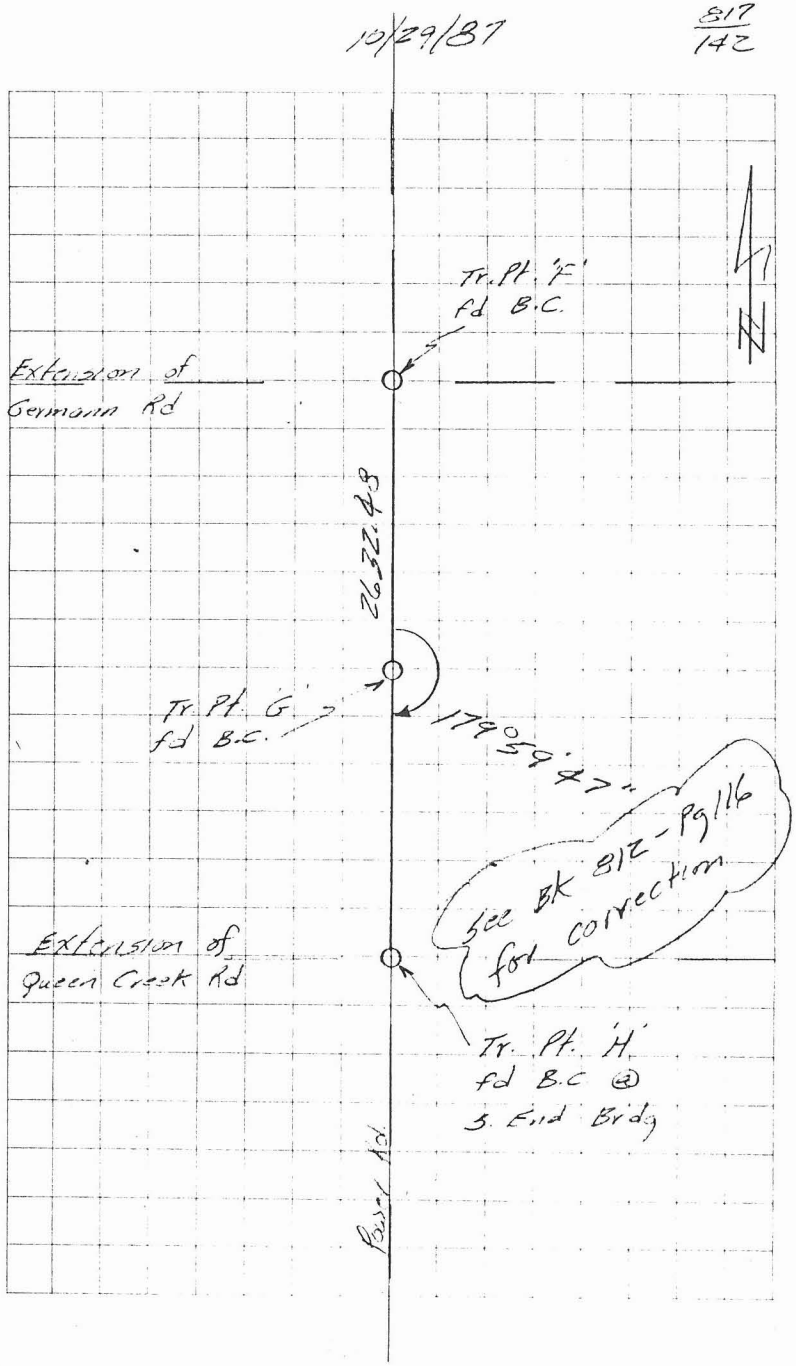
HD = 2632.49

HD to TP 'H'

ZA = 89°44'19"

SD = 2631.24

HD = 2631.21



MCFCD | Woodsᵉ Assoc

(See Bk 806 Pg 90)

TP #100 → TP #101 → TP 'I'

∠#1 = 180°00'23"

∠#2 = 60°61'06"

∠M = 180°00'17"

AD to TP I'

EX = 89°47'19"

SD = 2616.63

HD = 2616.61

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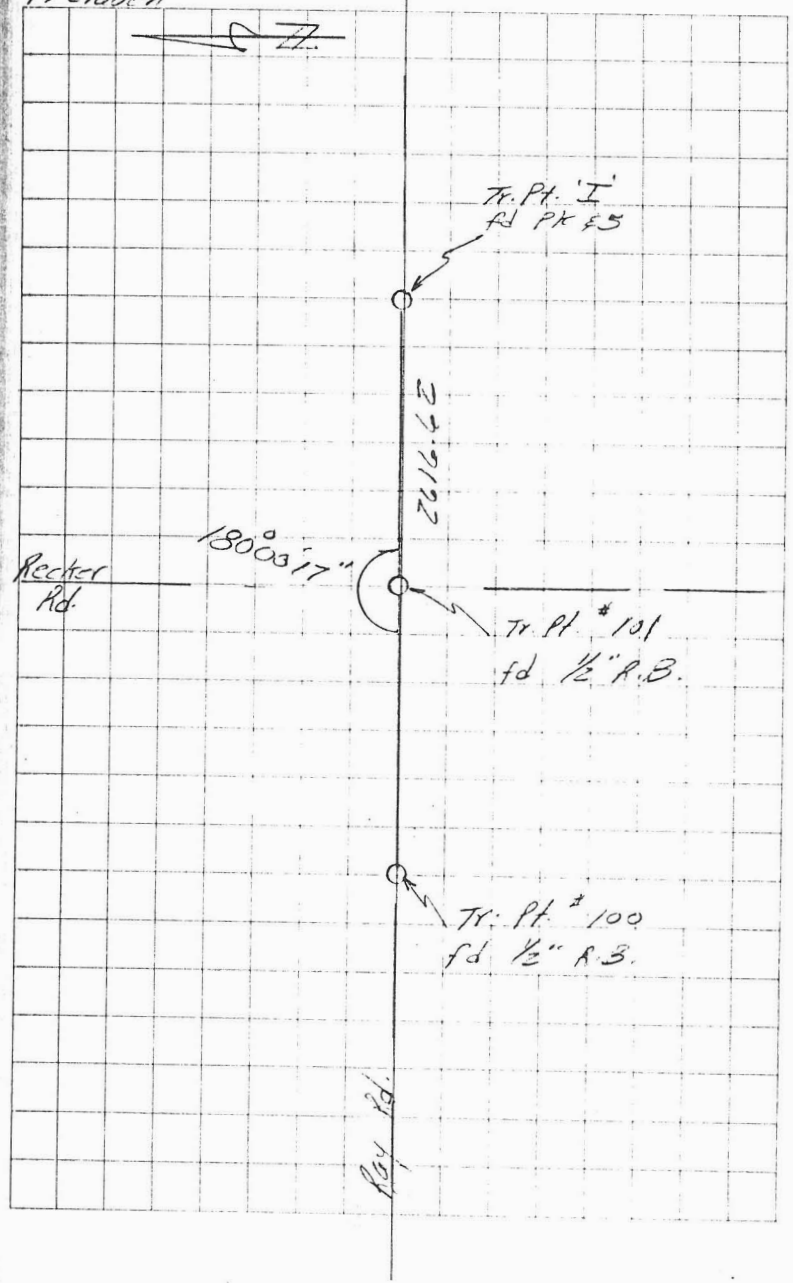
817/144



MCFCO Woods & Assoc

10/31/87

317/146

TP #101 → TP 'I' → TP 'J'

∠#1 = 179°57'22"

∠#4 = 359°49'39"

∠INT = 179°57'25"

HD to TP #101

ZA = 90°05'44

SD = 2616.63

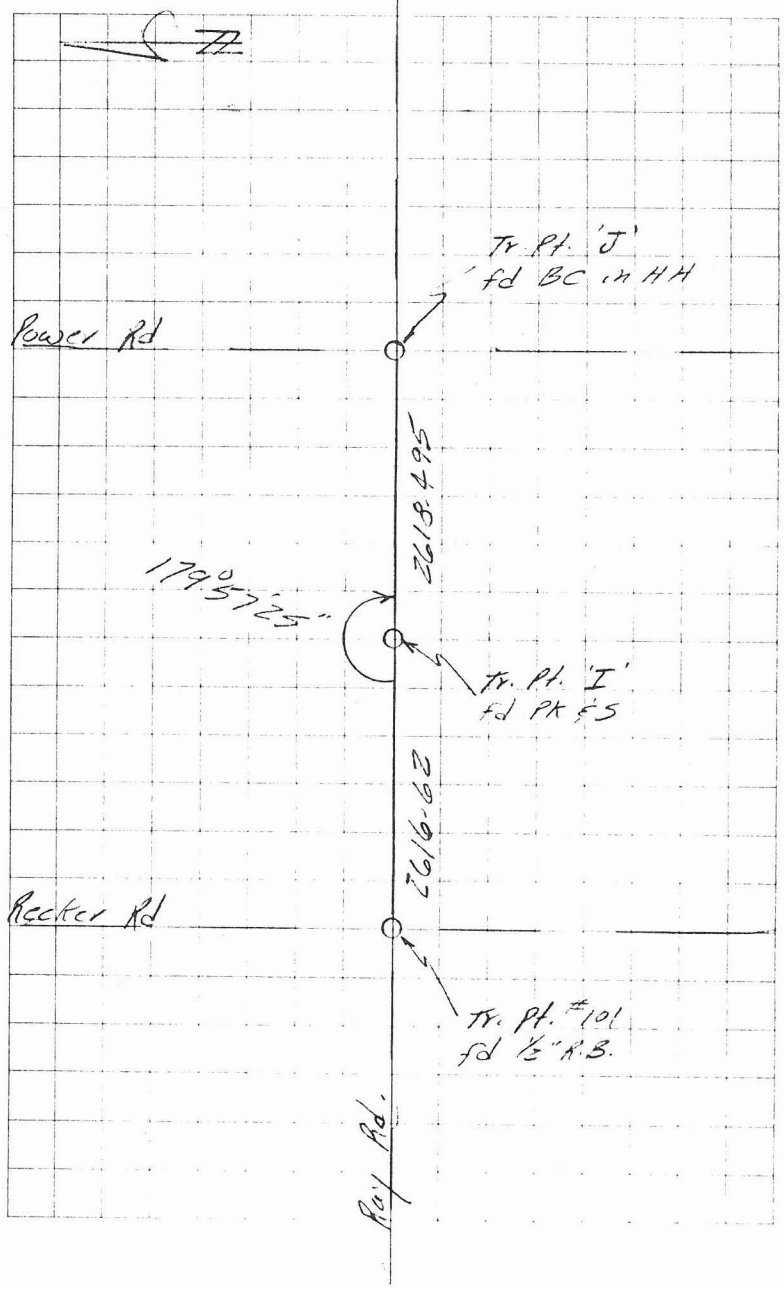
HD = 2616.63

HD to TP 'J'

ZA = 89°44'45

SD = 2618.52

HD = 2618.49



MCFCD Woods & Assoc

10/30/87

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TP 'I' → TP 'J' → TP 'K'

$\Delta^{\#1}$ = 269°42'08"

$\Delta^{\#2}$ = 358°47'44"

MN/4 = 269°41'56"

HD to TP 'I'

ΣΔ = 90°12'00"

SD = 2618.52

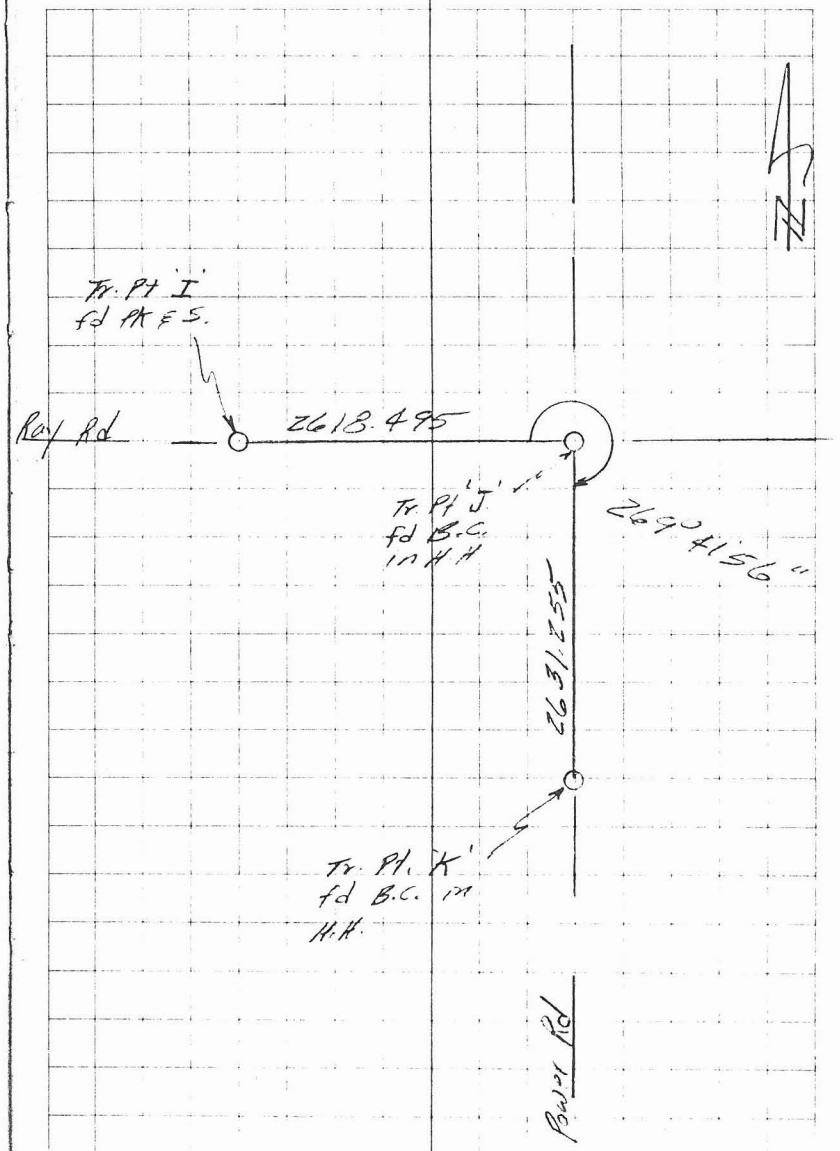
HD = 2618.50

HD to TP 'K'

ΣΔ = 89°55'35"

SD = 2631.26

HD = 2631.26



MCFCD | Woods & Assoc

10/30/37

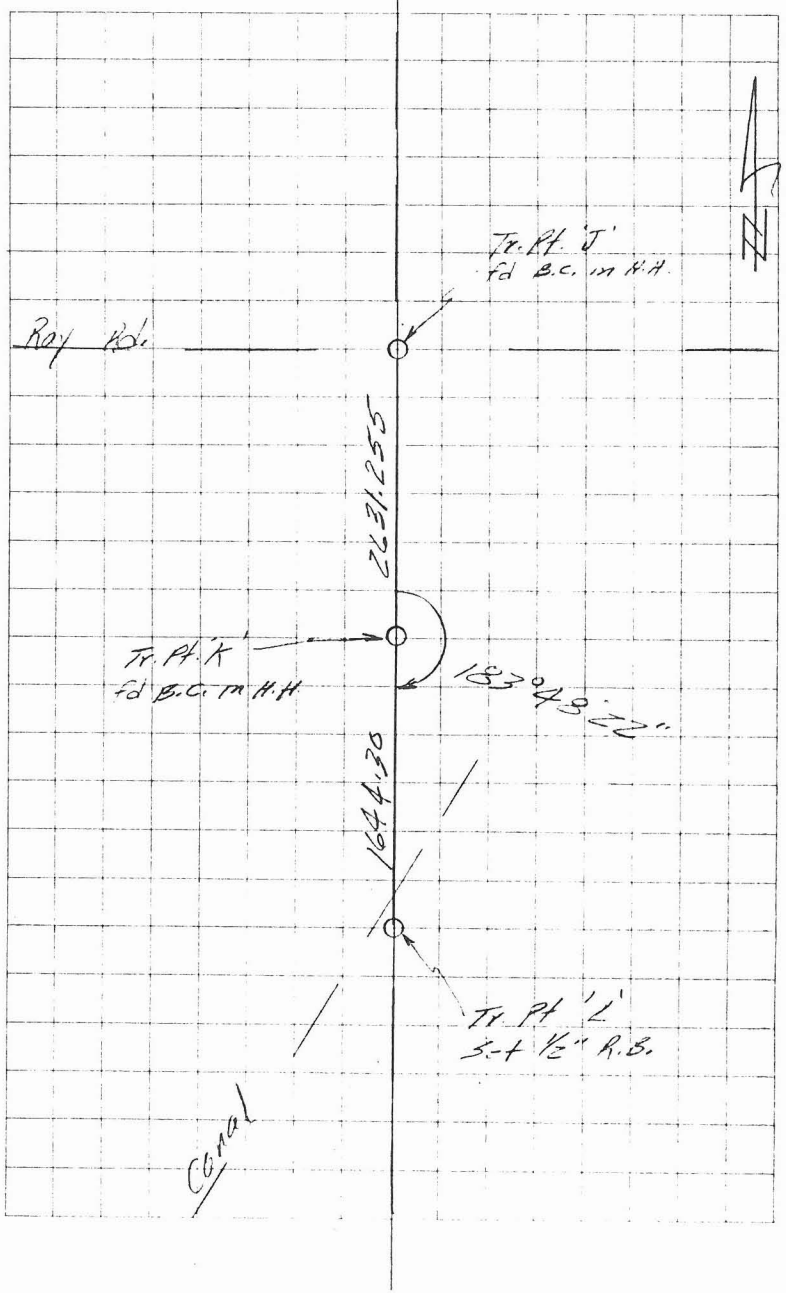
817
150

TP 'J' → TP 'K' → TP 'L'

∠#1 = 183°48'27"
∠#4 = 15°13'28"
MNX = 183°48'22"

HD to TP 'J'
∠4 = 89°56'18"
SD = 2631.25
HD = 2631.25

HD to TP 'L'
∠4 = 89°31'47"
SD = 1644.32
HD = 1644.09



MCECD Woods & Assoc. 10/30/37 317/152

TP 'K' → TP 'A' → TP 'B'

$\angle 1 = 169°54'18"$

$\angle 4 = 319°37'12"$

$\angle A K = 169°54'18"$

HD to TP 'K'

$\angle K = 90°14'43"$

SD. = 1644.33

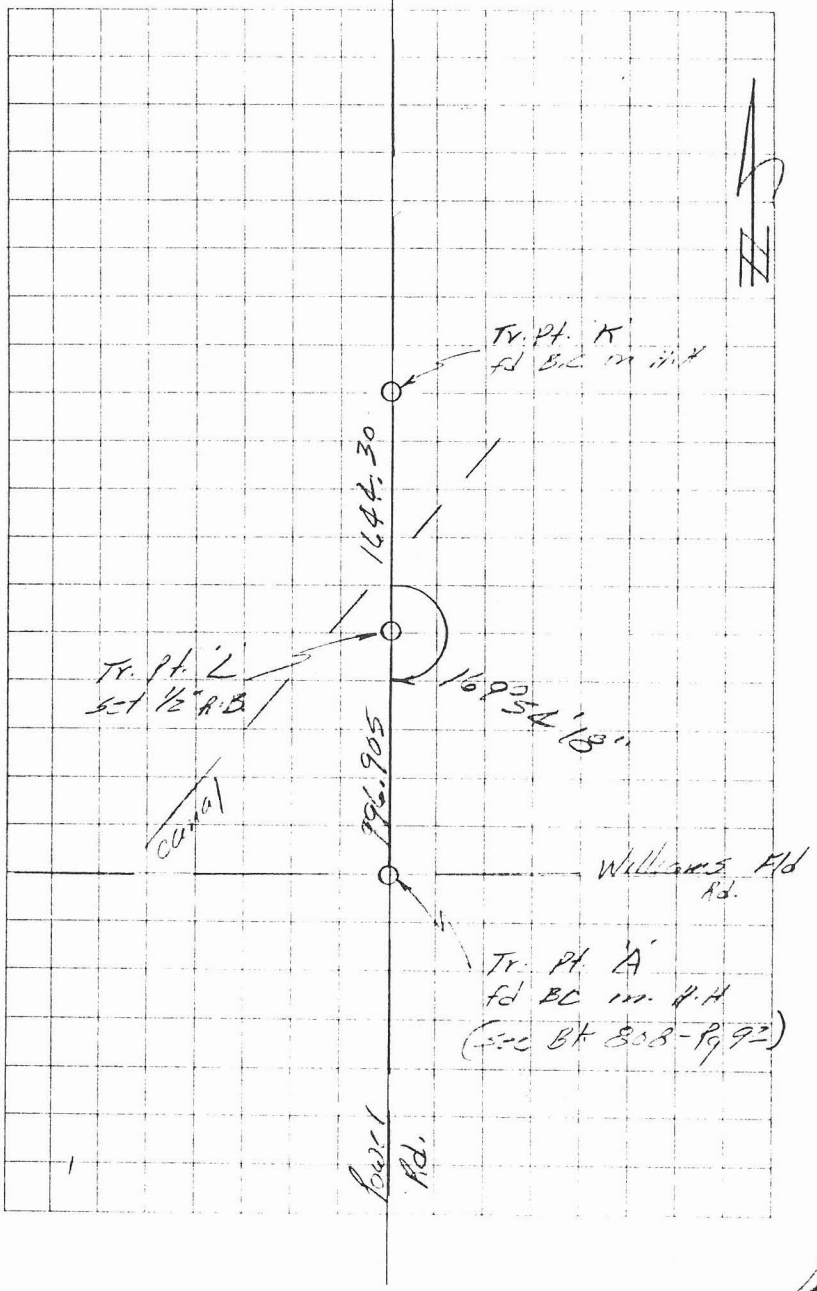
H.D = 1644.31

HD to TP 'A'

$\angle K = 90°09'18"$

SD = 996.91

HD = 996.91



MCFCD Woods & Assoc.

10/30/87

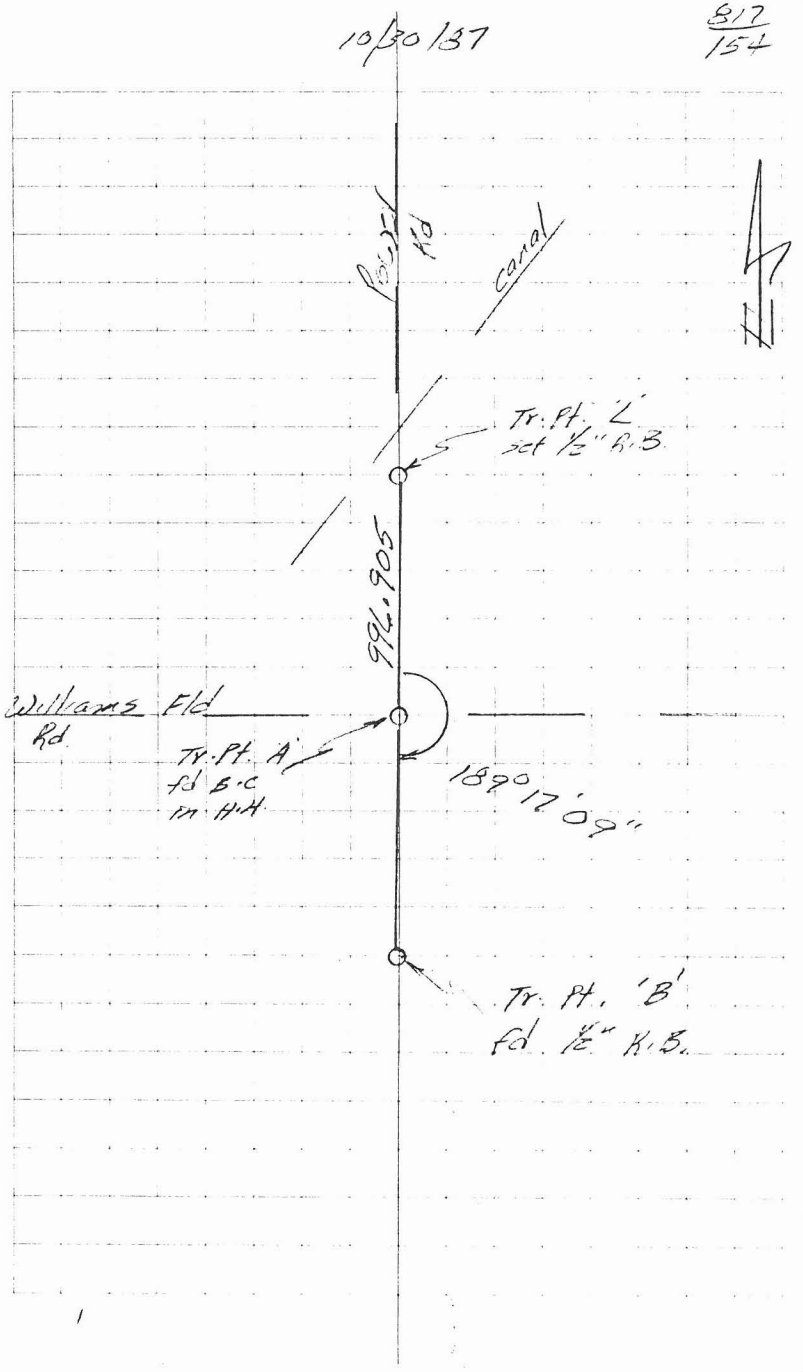
817/154

TP 'L' → TP 'A' → TP 'B'

∠#1 = 189°17'17"
∠#4 = 37°08'35"
MNX = 189°17'09"

HD to TP 'L'
ZX = 89°44'47"
SD = 996.91
HD = 996.90

(see Bk 812 — Pg 115)



check level

10/22/87

T @ Mid point

#1 = 3.985

#2 = 2.44

Diff = 1.545

T @ #1

#1 = 4.155

#2 = 2.61

Diff = 2.545

Okay

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T. Craven

10/22/87

917
15

Level Pegs

☐ 10	2.52	℄ 150'	0.89	10/13/87
W 300'	5.195	W 150'	3.565	
	2.675 ←	0.00 →	2.675	

RO-41-1259.06
BK B12 Pg 24
HC-52-

~~1218.758~~ ~~HC 30~~
~~BK 307/22~~ ~~RO 18~~

B.S. = N 1°53'06" W
~~N 88°53'06.54" W~~

~~℄ 55 = Base Line~~
~~W ℄ Intersec~~

~~55 = HE Corr~~
~~HC-59 HC-27, Pg 37~~
~~HC-57~~ ~~RO 43~~ Pg 41
~~HC 28~~

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Table IV—NATURAL TRIGONOMETRICAL FUNCTIONS

CURVE FORMULAE

Table V—TANGENTS AND EXTERNALS TO A 1° CURVE

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Table VI—INCHES TO DECIMALS OF A FOOT

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Table IX—SHORT RADIUS CURVES

Table X—RODS IN FEET, 10THS AND 100THS OF FEET

Table XI—LINKS IN FEET, 10TIIS AND 100THS OF FEET

MCFCD

35901.00	3-WIRE LEVEL RUN, PERIMETER BLK. 5	TBM 5-25 TO 5-73	9/28-29/87	1-32
35901.00	3-WIRE LEVEL RUN, INTERIOR BLK. 5	TBM 5-74 TO 5-88	9/29-30/87	33-66
35901.00	" " " ", Perimeter ~	Block 6 - TBM #6-1 TO #6-79	10/1-10/5/87	67-114
35901.00	Add'l Information - Woods &	Assoc.	10/30/87	115-124
35901.00	Flood Control Study - Canal	@ Greenfield Rd.	11/3/87	125-144
35901.00	Flood Control Study - Railroad @	Superstition Fwy	11/3/87	145-154
~				

MCFCD
BLK. 5

CONT. 3-WIRE FROM BK. 807/154

9-28-87

				〈1269.85〉	BC IN HH @ INT. OF VAL VISTA & WILLIAMS FIELD RD.
HC-40					
	5.37				
	4.31	+4.31	74.16		
	3.25				
				3.81	
				2.65	
TBM 5-25				1.485	
—	4.975				
	3.695	+3.695	75.205		
	2.415				
				4.74	
				3.47	
TBM 5-26				2.205	
	4.805				
	3.96	+3.96	75.695		
	3.11				
SIDESHOT		−4.235		1271.46	
				5.245	
				4.23	
RO-32				3.215	
	4.91				
	3.95	+3.95	75.415		
	2.99				

−2.65	1271.51	CPS IN W. FACE OF PP # 145 E. SIDE OF VAL VISTA DR, 450' S. OF WILLIAMS FIELD RD.
−3.47	1271.735	CPS IN W. FACE OF PP #143 E. SIDE OF VAL VISTA DR. 900' S. OF WILLIAMS FIELD RD.
		TARGET ELEV. @ RO-32 (TOP OF PAVEMENT)
−4.23	1271.465	CPS IN ℄ OF VAL VISTA DR. 1250' S. OF WILLIAMS FIELD RD.

9-28-87

MCFCD BLK. 5			1275.415				
				3.715			
TBM 5-27				2.72	-2.72	1272.695	CPS IN W. FACE OF PP E. SIDE OF VALVISTA DR. 1600'S. OF WILLIAMS FIELD RD.
				1.73			
	4.275						
	2.995	+2.995	75.69				
	1.715						
				3.995			
TBM 5-28				2.705	-2.705	1272.985	CPS IN W. FACE OF PP E. SIDE OF VALVISTA DR. 2100'S. OF WILLIAMS FIELD RD.
				1.415			
	5.715						
	4.525	+4.525	77.51				
	3.33						
				4.72			
TBM 5-29				3.575	-3.575	1273.935	MARI. CO. BC IN HH, ℄ OF VALVISTA RD, 1/2 MILE N. OF PECOS RD.
				2.43			
	6.23						
	4.785	+4.785	78.72				
	3.345						
				4.585			
TBM 5-30				3.155	-3.155	1275.565	CPS IN W. FACE OF PP #135 E. SIDE OF VALVISTA RD, 2100' N. OF PECOS RD.
				1.725			
	5.15						
	3.82	+3.82	79.385				
	2.49						

9-28-87

MCFCD BLK. 5			1279.385			
				4.83		
TBM 5-31				3.46	-3.46	1275.925
				2.095		
	5.41					
	4.06	+4.06	79.985			
	2.715					
				4.23		
TBM 5-32				2.875	-2.875	1277.11
				1.525		
	4.995					
	3.675	+3.675	80.785			
	2.35					
				4.33		
TBM 5-33				2.95	-2.95	1277.835
				1.57		
	4.065					
	2.93	+2.93	80.765			
	1.80					
SIDESHOT		-3.955				1276.81
				5.805		
RO-37				4.465	-4.465	1276.30
				3.12		
	4.725					
	3.32	+3.32	79.62			
	1.915					

CPS IN W. FACE OF PP #133 E. SIDE OF VALVISTA DR. 1550' N. OF PECOS RD.

CPS IN W. FACE OF PP, #131 E. SIDE OF VAL VISTA DR, 1000' N. OF PECOS RD.

CPS IN W. FACE OF PP #129 E. SIDE OF VAL VISTA DR, 500' N. OF PECOS RD.

TOP OF PAVEMENT, TARGET ELEV. @ RO-37

MARI. CO. BC IN HH @ INT. OF VALVISTA & PECOS RD.

9-28-87

MCFCD BLK. 5			1279.62 ↑				
				6.415			
TBM 5-34				5.025	-5.025	1274.595	□ CUT ON S. TCD, N. SIDE OF PECOS RD, 550' W. OF VAL VISTA DR.
				3.63			
	4.93						
	3.575	+3.575	81.17 ↑				
	2.225						
				5.605			
TBM 5-35				4.21	-4.21	1273.96	□ CUT ON S. TCD, N. SIDE OF PECOS RD, 1100' W. OF VAL VISTA ~~X~~DR.
				2.815			
	3.115						
	1.765	+1.765	75.725 ↑				
	0.42						
				7.075			
TBM 5-36				5.705	-5.705	1270.02	□ CUT ON S. TCD, N. SIDE OF PECOS RD, 1650' W. OF VAL VISTA DR.
				4.33			
	5.625						
	4.28	+4.28	74.30 ↑				
	2.93						
				6.29			
TBM 5-37				4.95	-4.95	1269.35	□ CUT ON S. TCD, N. SIDE OF PECOS RD, 2150' W. OF VAL VISTA DR.
				3.605			
	4.74						
	3.745	+3.745	73.095 ↑				
	2.75						

MCFCD BLK. 5

9-28-87

TOP OF PAVEMENT, TARGET ELEV. @ HC-45

		1273.095 ↑				
SIDESHOT		− 4.835	1268.260			
				5.85		
HC-45				4.825	−4.825	1268.27 CPS IN ℄ OF PECOS RD. 2600' W. OF VAL VISTA DR.
	4.835			3.805		
	3.425	+3.425	71.695 ↑			
	2.01					
				6.805		
TBM 5-38				5.385	−5.385	1266.31 □ CUT ON S.TCD, N. SIDE OF PECOS RD, 2150' E. OF LINDSAY RD.
				3.97		
	6.385					
	5.04	+5.04	71.35 ↑			
	3.695					
				7.495		
TBM 5-39				6.12	−6.12	1265.23 □ CUT ON S.TCD, N. SIDE OF PECOS RD, 1600' E. OF LINDSAY RD.
				4.745		
	6.54					
	5.215	+5.215	70.445 ↑			
	3.885					
				7.06		
TBM 5-40				5.70	−5.70	1264.745 □ CUT ON S.TCD, N. SIDE OF PECOS RD, 1050' E. OF LINDSAY RD.
				4.34		
	6.535					
	5.215	+5.215	69.96 ↑			
	3.89					

MCFCD BLK. 5			1269.96			
				7.21		
TBM 5-41				5.835	- 5.835	1264.125
				4.46		
	7.06					
	5.855	+ 5855	69.98			
	4.655					
				4.405		
HC-44				3.035	- 3.035	1266.945
				1.67		
	5.76					
	4.39	+ 4.39	71.335			
	3.02					
				7.07		
TBM 5-42				5.695	- 5.695	1265.64
				4.325		
	5.40					
	3.955	+ 3.955	69.595			
	2.505					
				5.18		
TBM 5-43				3.76	- 3.76	1265.835
				2.34		
	4.92					
	3.115	+ 3.115	68.95			
	1.31					

9-29-87
80-95° CLR.

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CROLLARD

8Z/12

□ CUT ON S. TCD, N. SIDE OF PECOS RD, 500' E. OF LINDSAY RD.

P-K NAIL IN ℄ OF PECOS RD, ON CONC. BRIDGE, W. EDGE OF EASTERN CANAL

R-BAR ON E. EDGE OF CANAL 575' S. OF PECOS RD.

R-BAR ON E. EDGE OF CANAL, 1150' S. OF PECOS RD.

9-29-87

MCFCD BLK. 5			1268.95			
				6.40		
TBM 5-44				4.96	-4.96	1263.99
				3.52		
	5.14					
	4.065	+4.065	68.055			
	2.99					
				4.36		
TBM 5-45				3.245	-3.245	1264.81
				2.13		
	4.75					
	3.63	+3.63	68.44			
	2.505					
SIDESHOT		-4.03		1264.41		
				5.13		
VC-23				4.015	-4.015	1264.425
				2.90		
	4.76					
	3.32	+3.32	67.745			
	1.885					
				6.385		
TBM 5-46				4.98	-4.98	1262.765
				3.57		
	5.475					
	4.10	+4.10	66.865			
	2.72					

CPS IN E. FACE OF PP #77
W. SIDE LINDSAY RD
1800' S. OF PECOS RD,
E. SIDE OF WELL ENCLOSURE

CPS IN W. FACE OF PP, #75
E. SIDE OF LINDSAY RD,
2250' S. OF PECOS RD.

TOP OF PAVEMENT, TARGET ELEV. @ VC-23

CPS IN ℄ OF LINDSAY RD, ½ MILE S. OF PECOS RD.

CPS IN W. FACE OF PP #71
E. SIDE OF LINDSAY RD,
3200' S. OF PECOS R.D.

9-29-87

MCFCD BLK. 5			1266.865				
				5.69			
TBM 5-47				4.38	-4.38	1262.485	CPS IN W. FACE OF PP #69 E. SIDE OF LINDSAY RD, 3750' S. OF PECOS RD.
				3.07			
	6.65						
	5.305	+5.305	67.79				
	3.965						
				6.73			
TBM 5-48				5.345	-5.345	1262.445	CPS IN W. FACE OF PP #67 E. SIDE OF LINDSAY RD, 1000' N. OF GERMANN RD
				3.96			
	7.18						
	5.81	+5.81	68.255				
	4.44						
				5.85			
TBM 5-49				4.49	-4.49	1263.765	CPS IN W. FACE OF PP #65 E. SIDE OF LINDSAY RD, 500' N. OF GERMANN RD.
				3.125			
	5.67						
	4.50	+4.50	68.265				
	3.335						
SIDESHOT		-4.80		1263.465	TOP OF PAVEMENT, TARGET ELEV. @ RO-40		
				6.645			
RO-40				5.45	-5.45	1262.815	MARI. CO. BC IN HH @ INT. OF LINDSAY & GERMANN RD.
				4.25			
	6.00						
	4.23	+4.23	67.045				
	2.46						

MCFCD
BLK. 5

9-29-87

			1267.045		
				4.935	
TBM 5-50				3.49	−3.49	1263.555	CPS IN W. FACE OF PP #61 E. SIDE OF LINDSAY RD, 600' S. OF GERMANN RD.
				2.04	
	4.82				
	3.42	+3.42	66.975		
	2.015				
				5.52	
TBM 5-51				4.105	−4.105	1262.87	CPS IN W. FACE OF PP #59 E. SIDE OF LINDSAY RD. 1175' S. OF GERMANN RD.
				2.695	
	4.87				
	3.495	+3.495	66.365		
	2.125				
				4.425	
TBM 5-52				2.97	−2.97	1263.395	CPS IN W. FACE OF PP #57 E. SIDE OF LINDSAY RD, 1750' S. OF GERMANN RD.
				1.52	
	5.25				
	3.845	+3.845	67.24		
	2.44				
				4.43	
TBM 5-53				3.015	−3.015	1264.225	CPS IN W. FACE OF PP #55 E. SIDE OF LINDSAY RD. 2300' S. OF GERMAN RD.
				1.60	
	5.105				
	4.24	+4.24	68.465		
	3.375				

MCFCD
BLK. 5

			1268.465	
SIDESHOT		− 4.20		1264.265
				5.225
VC-26				4.31
	4.84			3.395
	3.675	+3.675	67.83	
	2.515			
				4.195
TBM 5-54				2.955
				1.715
	5.17			
	3.815	+3.815	68.69	
	2.46			
				4.41
TBM 5-55				3.01
				1.605
	5.05			
	3.675	+3.675	69.355	
	2.295			
				4.705
TBM 5-56				3.33
				1.95
	5.775			
	4.405	+4.405	70.43	
	3.03			

9-29-87

TOP OF PAVEMENT, TARGET ELEV. @ VC-26

− 4.31	1264.155	1" PIPE IN ℄ OF LINDSAY RD, ½ MILE S. OF GERMANN RD.
− 2.955	1264.875	CPS IN W. FACE OF PP # 52 E. SIDE OF LINDSAY RD. 3100' S. OF PECOS RD.
− 3.01	1265.68	CPS IN W. FACE OF PP. # 50 E. SIDE OF LINDSAY RD, 3650' S. OF PECOS RD.
− 3.33	1266.025	CPS IN W. FACE OF PP. # 48 E. SIDE OF LINDSAY RD, 1000' N. OF QUEEN CREEK RD.

MCFCD
BLK. 5

9-29-87

			1270.43			
				4.94		
TBM 5-57				3.545	-3.545	1266.885 CPS IN W. FACE OF PP #46 E. SIDE OF LINDSAY RD, 500' N. OF Q. CREEK RD.
				2.155		
	5.505					
	4.205	+4.205	71.09			
	2.90					
				5.185		
TBM 5-58				3.93	-3.93	1267.16 MARI. CO. BC IN HH @ INT. OF LINDSAY & QUEEN CREEK RD.
				2.67		
	4.825					
	3.34	+3.34	70.50			
	1.855					
SIDESHOT		-5.90		1264.60		TOP OF PAVEMENT, TARGET ELEV. @ HC-56
				7.63		
HC-56				5.885	-5.885	1264.615 CPS IN ℄ OF QUEEN CREEK RD, 650' W. OF LINDSAY
	5.45			4.135		
	4.065	+4.065	68.68			
	2.675					
				7.19		
TBM 5-59				5.85	-5.85	1262.83 □ CUT ON S.TCD, N. SIDE OF Q. CREEK RD, 1200' W. OF LINDSAY RD.
				4.51		
	5.975					
	4.595	+4.595	67.425			
	3.21					

MCFCD
BLK. 5

9-29-87

			1267.425			
				6.51		
TBM 5-60				5.09	-5.09	1262.335
				3.67		
	4.905					
	3.50	+3.50	65.835			
	2.095					
				6.66		
TBM 5-61				5.285	-5.285	1260.55
				3.91		
	4.78					
	~~3.89~~ 3.00	+3.89	64.44			
SIDESHOT		-5.11				1259.33
				6.25		
RO-41				5.38	-5.38	1259.06
				4.51		
	4.63					
	3.23	+3.23	62.29			
	1.825					
				8.93		
TBM 5-62				7.525	-7.525	1254.765
				6.12		
	6.54					
	4.855	+4.855	59.62			
	3.175					

□ CUT ON S.TCD, N. SIDE OF Q. CREEK RD. 1750' W. OF LINDSAY RD.

□ CUT ON S.TCD, N. SIDE OF Q. CREEK RD, 2300' W. OF LINDSAY RD.

TOP OF PAVEMENT, TARGET ELEV. @ RO-41

1" PIPE IN HH, 3' N. OF ℄ QUEEN CREEK RD, ½ MILE E. OF GILBERT RD.

□ CUT ON S.TCD, N. SIDE OF Q. CREEK RD, 2100' E. OF GILBERT RD.

MCFCD
BLK. 5

1259.62

SIDESHOT		-5.52		1254.10
				7.13
HC-55				5.51
	5.12			3.885
	3.75	+3.75	57.86	
	2.38			
				6.545
TBM 5-63				5.13
				3.72
	5.685			
	4.51	+4.51	57.24	
	3.33			
				5.31
TP-1				4.48
				3.65
	4.775			
	3.92	+3.92	56.68	
	3.065			
				5.965
TBM 5-64				5.21
				4.455
	5.375			
	3.95	+3.95	55.42	
	2.525			

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TOP OF PAVEMENT, TARGET ELEV. @ HC-55

-5.51	1254.11	CPS, IN ℄ OF QUEEN CREEK RD, 1300' E OF GILBERT RD.
-5.13	1252.73	□ CUT ON S. TCD, N. SIDE OF Q. CREEK RD, 730' E. OF GILBERT RD.
-4.48	1252.76	HUB ON N. EDGE OF ROAD, 300' E. OF GILBERT RD.
-5.21	1251.47	2" BAR IN INT. OF QUEEN CREEK RD & GILBERT RD. 0.6' BELOW PAVEMENT

MCFCD

9-29-87

BLK. 5			1255.42 ↑			
				7.39		
TBM 5-65				6.01	-6.01	1249.41
				4.63		
	5.88					
	4.51	+4.51	53.92 ↑			
	3.14					
				5.96		
TBM 5-66				4.67	-4.67	1249.25
				3.38		
	4.41					
	3.035	+3.035	52.285 ↑			
	1.665					
				6.605		
TBM 5-67				5.18	-5.18	1247.105
				3.76		
	5.52					
	4.13	+4.13	51.235 ↑			
	2.745					
				6.115		
TBM 5-68				4.71	-4.71	1246.525
				3.305		
	4.675					
	3.68	+3.68	50.205 ↑			
	2.685					

□ CUT ON S.TCD, N. SIDE OF Q. CREEK RD, 550' W. OF GILBERT RD.

□ CUT ON S.TCD, N. SIDE OF Q. CREEK RD, 1100' W. OF GILBERT RD.

□ CUT ON S.TCD, N. SIDE OF Q. CREEK RD, 1650' W. OF GILBERT RD.

□ CUT ON S.TCD, N. SIDE OF Q. CREEK RD, 2200' W. OF GILBERT RD

MCFCD

9-29-87

BLK. 5			1250.205 ↑				
				6.79			
TBm 5-69				5.605	- 5.605	1244.60	MARICOPA CO. BC IN HH, 5' N. OF & OF Q. CREEK RD, ½ MILE W. OF GILBERT RD.
				4.47			
	4.45						
	3.04	+3.04	47.64 ↑				
	1.63						
				5.36			
TBm 5-70				4.035	- 4.035	1243.605	□ CUT ON S. TCD, N. SIDE OF Q. CREEK RD, 3200' W OF GILBERT RD.
				2.71			
	3.915						
	2.59	+2.59	46.195 ↑				
	1.265						
				5.31			
TBm 5-71				3.95	- 3.95	1242.245	□ CUT ON S. TCD, N. SIDE OF Q. CREEK RD, 3750' W. OF GILBERT RD.
				2.585			
	4.04						
	2.735	+2.735	44.98 ↑				
	1.43						
				5.38			
TBm 5-72				4.065	- 4.065	1240.915	□ CUT ON S. TCD, N. SIDE OF Q. CREEK RD, 4300' W. OF GILBERT RD.
				2.745			
	4.00						
	2.675	+2.675	43.59 ↑				
	1.355						

9-29-87

MCFCD BLK. 5			1243.59 ↑			
				5.275		
TBM 5-73				4.005	4.005	1239.585
				2.74		
	4.475					
	3.285	+3.285	42.87 ↑			
	2.09					
				6.25		
TBM 4-70				4.895	-4.895	1237.975
				3.535		

□ CUT ON S.TCD, N. SIDE OF Q. CREEK RD, 1' E. OF COOPER RD.

MARI. CO. BC IN HH @ INT OF QUEEN CREEK & COOPER RD. <1237.96 UNADJ. ELEV.>
SEE BK. 807

MCFCD INTERIOR BLK. 5

9-29-87

BLK. 5	3-WIRE LEVEL RUN TO			HC-50	
TBM RO-40				<1262.815>	BC IN HH @ INT. OF GERMANN & LINDSAY RD. SEE pg. 16
	5.72				
	4.335	+4.335	67.15		
	2.95				
SIDESHOT		-4.22		1262.93	TOP OF PAVEMENT, TARGET ELEV. @ HC-50
				5.915	
HC-50				4.20	-4.20 1262.95 CPS IN ℄ OF GERMANN RD & ℄ BOX CULVERT OVER EASTERN CANAL
				2.49	
	5.86				
	4.355	+4.355	67.305		
	2.85				
				6.08	
RO-40				4.495	-4.495 1262.81 BC IN HH @ GERMANN & LINDSAY RD. <1262.815>
				2.905	

MCFCD BLK. 5

3-WIRE LEVEL RUN TO HC-51

9-29-87

RO-40				〈1262.815〉	BC IN HH @ INT. OF GERMANN & LINDSAY RD'S SEE pg 16
	6.55				
	5.05	+5.05	67.865		
	3.55				
				3.67	
TP-1				2.35	−2.35 1265.515 BLUE PAINT ON N.TCD S. SIDE OF GERMANN RD 575'E. OF LINDSAY RD
				1.035	
	5.85				
	4.535	+4.535	70.05		
	3.22				
				4.435	
TP-2				3.105	−3.105 1266.945 BLUE PAINT SPOT ON N.TCD S. SIDE OF GERMAN RD. 1100'E. LINDSAY RD.
				1.775	
	6.255				
	4.935	+4.935	71.88		
	3.615				
				5.05	
TP-3				3.71	−3.71 1268.17 BLUE PAINT SPOT ON S.TCD N. SIDE OF GERMANN RD, 1650' E OF LINDAY RD.
				2.365	
	5.815				
	4.775	+4.775	72.945		
	3.74				
SIDESHOT		−3.71		1269.235	TOP OF PAVEMENT, TARGET ELEV. @ HC-51

9-29-87

MCFCD BLK. 5			1272.945				
				4.995			
HC-51				3.69	-3.69	1269.255	CPS IN ℄ GERMANN RD, 2050' E. OF LINDSAY RD.
				2.385			
	5.13				BEGIN RUN BACK		
	3.82	+3.82	73.075				
	2.515						
				5.95			
TP-3				4.91	-4.91	1268.165	S.T.C.D.
	5.49			3.87			
	4.175	+4.175	1272.34				
	2.865						
				6.755			
TP-2				5.405	-5.405	1266.935	S.T.C.D.
	4.91			4.055			
	3.58	+3.58	70.515				
	2.245						
				6.375			
TP-1				5.01	-5.01	1265.505	S.T.C.D.
	4.655			3.645			
	3.355	+3.355	68.86				
	2.055						
				7.575			
RO-40				6.045	-6.045	1262.815	BC IN HH @ LINDSAY & GERMANN R.D.'S ⟨1262.815⟩
				4.51			

MCFCD

BLK. 5 3-WIRE LEVEL RUN TO VC-20 9-29-87

TBM 5-29			<1273.935>	BC IN HH, ℄ OF VALLISTA RD, ½ MILE NORTH OF PECOS RD. SEE Pg. 4		
	5.01					
	3.695	+3.695	77.63			
	2.375					
				6.735		
TBM 5-74				5.455	-5.455	1272.175 □CUT ON S.TCD, RWCD DITCH, 550' W. OF E. ¼ COR. SEC. 32
				4.17		
	5.665					
	4.405	+4.405	76.58			
	3.15					
				6.31		
TBM 5-75				5.00	-5.00	1271.58 □CUT ON S.TCD, RWCD DITCH, 1100' W. OF E. ¼ COR. SEC. 32
				3.69		
	5.42					
	4.105	+4.105	75.685			
	2.79					
				6.755		
TBM 5-76				5.505	-5.505	1270.18 □CUT ON S.TCD, RWCD DITCH, 1650' W. OF E. ¼ COR. SEC. 32
				4.25		
	5.86					
	4.46	+4.46	74.64			
	3.06					

9-29-87

MCFCD BLK. 5			1274.64				
				7.26			
TBM 5-77				5,915	-5.915	1268.725	□ CUT ON S.TCD. OF RWCD CANAL, 2200'E. OF E. 1/4 COR. SEC. 32
				4,565			
	5.385						
	4.10	+4.10	72.825				
	2.815						
				6.51			
VC-20				5.47	-5.47	1267.355	R-BAR @ GRND LEVEL, 50'S. OF RWCD, NEAR CTR. OF SEC. 32
				4.43			
	6.48						BEGIN RUNBACK
	5.44	+5.44	72.795				
	4.40						
				5.36			
TBM 5-77				4,075	-4.075	1268.72	□ CUT ON S. TCD.
				2.785			
	7.21						
	5.87	+5.87	74.59				
	4.525						
				5.82			
TBM 5-76				4.42	-4.42	1270.17	□ CUT ON S.TCD.
				3.02			
	6.43						
	5.14	+5.14	75.31				
	3.84						

MCFCD BLK. 5

9-29-87

			1275.31 ^				
				5.00			
TBM 5-75				3.73	-3.73	1271.58	□ CUT ON S. TCD.
				2.465			
	6.15						
	4.84	+4.84	76.42 ^				
	3.53						
				5.505			
TBM 5-74				4.25	-4.25	1272.17	□ CUT ON S. TCD.
				2.99			
	6.505						
	5.235	+5.235	77.405 ^				
	3.97						
				4.815			
TBM 5-29				3.48	-3.48	1273.925	BC IN HH, & VAL VISTA RD, 1/2 MILE N. OF PECOS RD. ⟨1273.935⟩
				2.14			

MCFCD

BLK. 5 TIE-IN SE. COR. SEC. 31

TBM 5-41 <1264.125>

6.555
5.465 +5.465 69.59
4.38

3.895
TBM 5-41A 2.625
1.36

4.075
3.86 +3.86 70.825
3.645

4.285
HC-44 3.89
3.495

RUGLAND
B. McMURRAY

812/46

9-30-87
80-100° CLR.

□ CUT ON S.TCD, N. SIDE OF PECOS RD. 500' E. OF LINDSAY SEE pg. 12

-2.625 1266.965 1" PIPE 0.05' ABOVE PAVEMENT @ INT. OF PECOS & LINDSAY RD.

-3.89 1266.935 P-K NAIL IN BRIDGE @ PECOS RD & EASTERN CANAL <1266.945>
SEE PG. 12

MCFCD

BLK. 5 3-WIRE LEVEL RUN TO HC-39

9-30-87

HC-40				<1269.85>			BC IN HH @ INT. OF VAL VISTA & WILLIAMS FIELD RD. SEE BK. 807/154
	4.73						
	3.82	+3.82	73.67				
	2.91						
				5.56			
TBM 5-78				4.34	-4.34	1269.33	CPS IN N. FACE OF PP, N. SIDE OF WLMS. FLD. RD 450' W. OF VAL VISTA DR.
				3.12			
	3.965						
	2.68	+2.68	72.01				
	1.45						
				4.865			
TBM 5-79				3.62	-3.62	1268.39	CPS IN S. FACE OF PP N. SIDE OF WLMS. FLD. RD, 950' W. OF VAL VISTA
				2.37			
	4.30						
	2.47	+2.47	70.86				
	0.645						
				5.545			
TBM 5-80				3.67	-3.67	1267.19	CPS IN S. FACE OF PP N. SIDE OF WLMS. FLD. RD. 1700' W. OF VAL VISTA DR.
				1.80			
	4.295						
	3.06	+3.06	70.25				
	1.82						

MCFCD

9-30-87

BLK. 5			1270.25			
				4.875		
TBM 5-81				3.655	−3.655	1266.595
				2.43		
	5.025					
	3.805	+3.805	70.40			
	2.59					
SIDESHOT		+3.89				1266.51
				5.765		
HC-39				4.53	−4.53	1265.87
	5.68			3.30		
	4.45	+4.45	70.32			
	3.22					
				4.945		
TBM 5-81				3.725	−3.725	1266.595
				2.51		
	5.12					
	3.87	+3.87	70.465			
	2.615					
				4.48		
TBM 5-80				3.27	−3.27	1267.195
				2.06		
	5.72					
	3.86	+3.86	71.055			
	1.995					

TOP OF PAVEMENT, TARGET ELEV. @ HC-39

BEGIN RUN BACK

CPS IN S. FACE OF PP N. SIDE OF WILLIAMS FIELD RD. 2200' W. OF VAL VISTA DR.

1½" BAR IN ℄ OF WILLIAMS FIELD RD, ½ MILE W. OF VAL VISTA DR, 50' E. OF EASTERN CANAL

CPS IN PP

CPS IN PP

9-30-87

MCFCD BLK. 5			1271.055 ↑				
				4.495			
TBM 5-79				2.655	-2.655	1268.40	CPS IN PP.
				0.82			
	4.76						
	3.525	+3.525	71.925 ↑				
	2.29						
				3.82			
TBM 5-78				2.585	-2.585	1269.34	CPS. IN PP
				1.35			
	5.26						
	4.095	+4.095	73.435 ↑				
	2.93						
				4.535			
HC-40				3.575	-3.575	1269.86	BC IN HH @ INT. OF VAL VISTA & WILLIAMS FIELD RD. <1269.85>
				2.615			

MCFCD
BLK. 3-WIRE LEVEL RUN TO HC-30 9-30-87

RO-30				(1269.755)			CPS IN ℄ OF RAY RD, E. SIDE OF EASTERN CANAL SEE BK. 807
	4.295						
	2.87	+2.87	72.625				
	1.44						
				7.285			
TBM 5-82				5.665	-5.665	1266.96	CPS IN E. FACE OF PP # P-1 W. SIDE OF EASTERN CANAL, 600' N. OF RAY RD.
				4.045			
	5.975						
	4.61	+4.61	71.57				
	3.245						
				5.36			
TBM 5-83				4.105	-4.105	1267.465	CPS IN E. FACE OF PP # 192 W. SIDE OF E. CANAL, 1100' N. OF RAY RD.
				2.85			
	5.26						
	3.96	+3.96	71.425				
	2.66						
				3.93			
TBM 5-84				2.725	-2.725	1268.70	CPS IN E. FACE OF PP # 190 W. SIDE OF EASTERN CANAL, 1600' N. OF RAY RD
				1.52			
	4.445						
	3.22	+3.22	71.92				
	1.995						

9-30-87

MCFCD BLK. 5			1271.92 ↑			
				3.86		
TBM 5-85				2.595	- 2.595	1269.325 CPS IN E. FACE OF PP # 188 W. SIDE OF EASTERN CANAL, 375' S. OF RR TRACK
				1.33		
	5.355					
	4.07	+ 4.07	73.395 ↑			
	2.79					
				7.33		
HC-39				5.565	- 5.565	1267.83 R-BAR @ GRND. LEVEL, 50' W. OF CANAL, 100' N. OF RR TRACK
				3.795		
	7.125					BEGIN RUN BACK
	5.495	+ 5.495	73.325 ↑			
	3.87					
				5.42		
TBM 5-85				4.00	- 4.00	1269.325 CPS IN PP.
				2.58		
	4.77					
	3.50	+ 3.50	72.825 ↑			
	2.23					
				5.33		
TBM 5-84				4.10	- 4.10	1268.725 CPS IN PP
				2.875		
	5.645					
	4.405	+ 4.405	73.13 ↑			
	3.165					

MCFCD
BLK. 5

1273.13

9-30-87

				6.925			
TBM 5-83				5.645	-5.645	1267.485	CPS IN PP
				4.37			
	6.00						
	4.77	+4.77	72.255				
	3.545						
				6.67			
TBM 5-82				5.275	-5.275	1266.98	CPS IN PP
				3.88			
	6.91						
	5.41	+5.41	72.39				
	3.915						
				4.17			
RO-30				2.62	-2.62	1269.77	CPS IN ℄ OF RAY RD, E. SIDE OF EASTERN CANAL ⟨1269.755⟩
				1.065			

MCFCD
BLK. 5

3-WIRE LEVEL RUN TO RO-27

9-30-87

812/60

TBM 3-122				⟨1261.095⟩		BC IN HH @ INT. OF VAL VISTA DR. & WARNER RD. SEE BK. 805
	5.42					
	4.085	+4.085	65.18			
	2.75					
				4.19		
TBM 5-86				3.02	-3.02	1262.16 CPS IN W. FACE OF PP #20 E. SIDE OF VAL VISTA DR. 550' S. OF WARNER
				1.85		
	4.89					
	3.72	+3.72	65.88			
	2.55					
				3.88		
TBM 5-87				2.70	-2.70	1263.18 CPS IN W. FACE OF PP #18 E. SIDE OF VAL VISTA DR. 1050' S. OF WARNER RD.
				1.515		
	4.715					
	3.60	+3.60	66.78			
	2.49					
				2.515		
TBM 5-88				1.28	-1.28	1265.50 CPS IN W. FACE OF PP #16 E. SIDE OF VAL VISTA DR, 1500' S. OF WARNER RD, 40' N. OF RR TRACK
				0.04		
	4.745					
	4.285	+4.285	69.785			
	3.83					

MCFCD
BLK. 5

1269.785

SIDESHOT		−5.525		1264.26
				6.09
RO-27				5.53
				4.965
	6.14			
	5.575	+5.525	69.83	
	5.01			
				4.79
TBM 5-88				4.335
				3.88
	2.35			
	1.20	+1.20	66.695	
	0.055			
				4.68
TBM 5-87				3.525
				2.37
	4.03			
	2.885	+2.885	66.055	
	1.735			

9-30-87

TOP OF PAVEMENT, TARGET ELEV. @ RO-27

−5.53	1264.255	CPS IN ℄ OF VAL VISTA DR. 125' S. OF RR TRACK 1800' S. OF WARNER RD
BEGIN RUN BACK		
−4.335	1265.495	CPS IN PP
−3.525	1263.17	CPS IN PP

812/64

MCFCD
BLK. 5

1266.055

9-30-87

				5.055		
TBm 5-86				3.905	-3.905	1262.15 CPS, IN PP
				2.75		
	4.065					
	2.89	+2.89	65.04			
	1.71					
				5.30		
TBm 3-122				3.955	-3.955	1261.085 BC IN HH @ INT. OF VAL VISTA & WARNER RD.
				2.61		<1261.095>

812/66

MCFCD

BLK. 5 3-WIRE LEVEL RUN TO HC-33

9-30-87

RO-31				1279.175			BC IN HH @ INT. OF RAY & GREENFIELD RD's, SEE BK. 805
	4.035						
	2.375	+2.375	81.55				
	0.72						
				9.035			
TP-1				7.83	-7.83	1273.72	HUB ON S. SIDE OF RR.
				6.625			
	4.71						
	3.595	+3.595	77.315				
	2.48						
				6.685			
HC-33				5.16	-5.16	1272.155	R-BAR @ GRND. LEVEL, 40' S. OF RR TRACK 500' N. OF RAY RD. 1000' W. OF GREENFIELD RD.
	6.57			3.64			
	5.08	+5.08	77.235				
	3.59						
				4.675			
TP-1				3.515	-3.515	1273.72	HUB
				2.36			
	9.50						
	8.205	+8.205	81.925				
	6.91						
				4.325			
RO-31				2.75	-2.75	1279.175	BC IN HH @ RAY & GREENFIELD RD. 1279.175
				1.175			

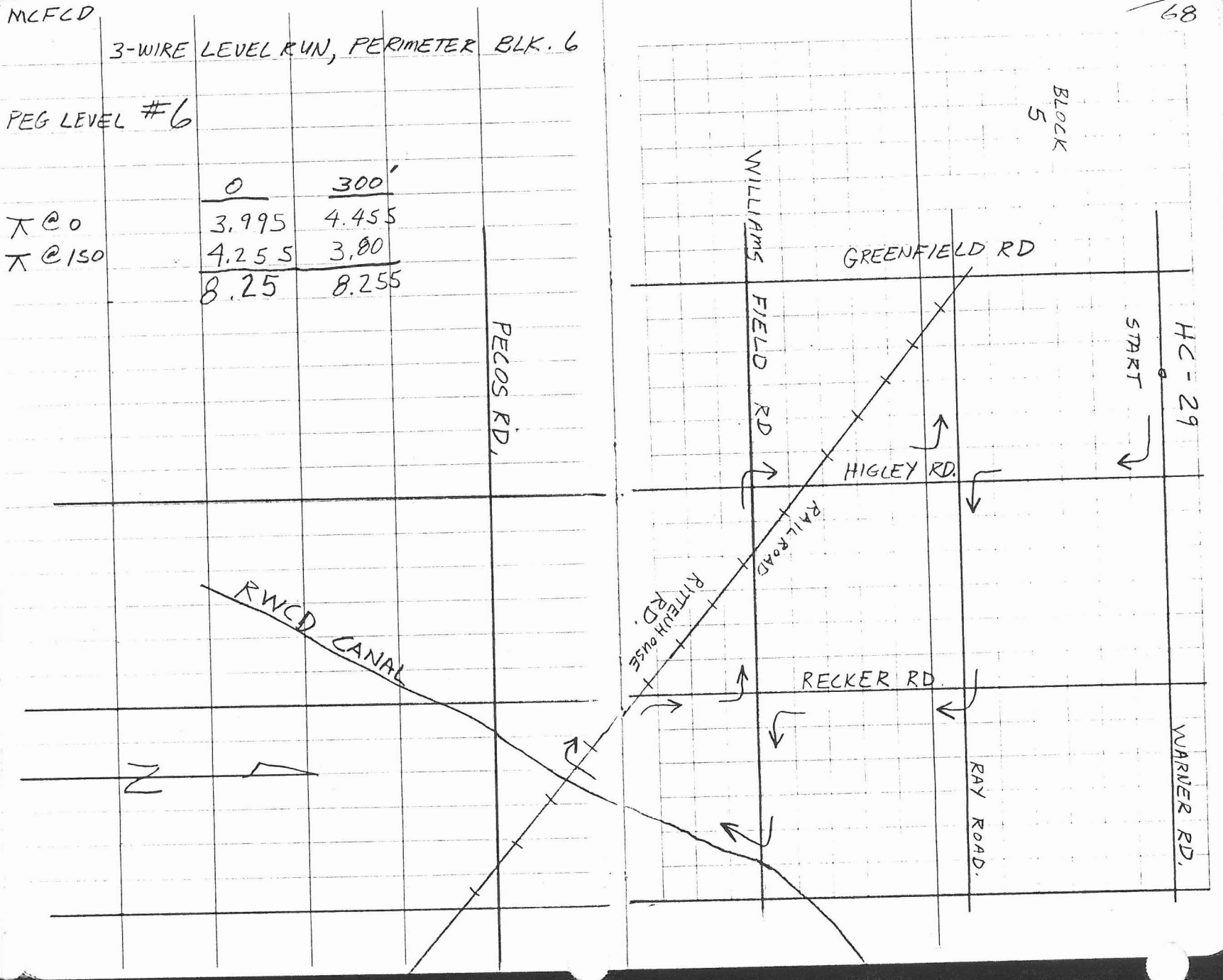
MCFCD

8/12/68

3-WIRE LEVEL RUN, PERIMETER BLK. 6

PEG LEVEL #6

	0	300'
⊼ @ 0	3.995	4.455
⊼ @ 150	4.255	3.80
	8.25	8.255



MCFCD
BLK. 6

3-WIRE LEVEL RUN, BLOCK 6

10-1-87
80°-100° CLR.

RUGLAND
B. McMURRAY

812/70

			UNADJ. ELEV.			
HC-29			1279.035			MARI. CO. BC IN HH, 2' N. OF ℄ WARNER RD. ½ MILE W. OF HIGLEY RD.
	6.70					
	5.125	+5.125	84.16			
	3.55					
				4.60		
TBM 6-1				3.005	-3.005	1281.155 □ CUT ON S.TCD, N. SIDE OF WARNER RD, 600' E. OF S.¼ COR. SEC. 15
				1.41		
	6.23					
	4.65	+4.65	85.805			
	3.07					
				5.595		
TBM 6-2				4.015	-4.015	1281.79 □ CUT ON S.TCD, N. SIDE OF WARNER RD, 1400' W. OF HIGLEY RD.
				2.43		
	7.325					
	5.70	+5.70	87.49			
	4.075					
				4.32		
TBM 6-3				2.79	-2.79	1284.70 □ CUT ON S.TCD, N. SIDE OF WARNER, 800' W. OF HIGLEY RD.
				1.255		
	5.89					
	4.33	+4.33	89.03			
	2.775					
				5.09		
TBM 6-4				3.75	-3.75	1285.28 □ CUT ON S.TCD, N. SIDE OF WARNER, 200' W. OF HIGLEY RD.
				2.405		

MCFCD

BLK. 6

10-1-87

81L/72

	5.745				
	5.36 + 5.36	90.64			
	4.98				
			4.38		
TBM 6-5			3.95	-3.95	1286.69
			3.515		
	6.03				
	4.525 + 4.525	91.215			
	3.02				
			5.85		
TBM 6-6			4.405	-4.405	1286.81
			2.965		
	6.95				
	5.495 + 5.495	92.305			
	4.045				
			6.46		
TBM 6-7			5.095	-5.095	1287.21
			3.735		
	6.995				
	5.545 + 5.545	92.755			
	4.095				
			6.33		
TBM 6-8			4.88	-4.88	1287.875
	7.29		3.43		
	5.83 + 5.83	93.705			
	4.37				

MARI. CO. BC IN HH @ INT. OF HIGLEY & WARNER RD.

□ CUT ON E. TCD, W. SIDE OF HIGLEY RD, 600' S. OF WARNER

□ CUT ON E. TCD, W. SIDE OF HIGLEY RD, 1200' S. OF WARNER RD.

□ CUT ON E. TCD, W. SIDE OF HIGLEY RD, 1800' S. OF WARNER RD.

MCFCD

10-1-87

812/74

BLK. 6			1293.705			
				6.71		
TBM 6-9				5.255	-5.255	1288.45
				3.805		
	5.785					
	4.95	+4.95	93.40			
	4.12					
				5.09		
TBM 6-10				4.31	-4.31	1289.09
				3.53		
	5.75					
	4.395	+4.395	93.485			
	3.04					
				6.74		
TBM 6-11				5.36	-5.36	1288.125
				3.98		
	7.215					
	5.855	+5.855	93.98			
	4.50					
				7.02		
TBM 6-12				5.66	-5.66	1288.32
				4.295		
	7.335					
	6.00	+6.00	94.32			
	4.67					

□ CUT ON E. TCD, W. SIDE OF HIGLEY RD, 2350's, OF WARNER RD.

MARI. CO. BC. IN HH, E OF HIGLEY RD, 1/2 MILE N. OF RAY RD.

□ CUT ON W. TCD, W. SIDE OF HIGLEY RD, 2075' N. OF RAY RD.

□ CUT ON W. TCD, W. SIDE OF HIGLEY RD, 1525' N. OF RAY RD.

812
76

10-1-87

MCFCD BLK. 6			1294.32		
				7.075	
TBM 6-13				5.735	
				4.39	
	7.125				
	5.81	+5.81	94.395		
	4.495				
				6.92	
TBM 6-14				5.605	
				4.285	
	7.15				
	6.02	+6.02	94.81		
	4.89				
SIDESHOT		-4.16		1290.65	
				5.915	
HC-34				4.61	
				3.305	
	7.135				
	5.87	+5.87	96.07		
	4.605				
				5.775	
TBM 6-15				4.51	
				3.245	
	5.715				
	4.455	+4.455	96.015		
	3.195				

-5.735	1288.585	□ CUT ON W. TCD, W. SIDE OF HIGLEY RD, 1000' N. OF RAY RD.
-5.605	1288.79	□ CUT ON W. TCD, W. SIDE OF HIGLEY RD, 500' N. OF RAY RD.
TOP OF PAVEMENT, TARGET ELEV. @ HC-34		
-4.61	1290.20	MARI. CO. BC IN HH @ INT. OF HIGLEY & RAY RD'S
-4.51	1291.56	□ CUT ON S. TCD, N. SIDE OF RAY RD, 550' E. OF HIGLEY RD.

MCFCD BLK. 6

1296.015

10-1-87

				5.25		
TBM 6-16				3.95	-3.95	1292.065
				2.65		
	6.255					
	4.95	+4.95	97.015			
	3.645					
				3.425		
TBM 6-17				2.16	-2.16	1294.855
				0.89		
	4.46					
	3.11	+3.11	97.965			
	1.765					
				3.85		
TBM 6-18				2.575	-2.575	1295.39
				1.305		
	5.37					
	3.81	+3.81	99.20			
	2.245					
				4.89		
TBM 6-19				3.58	-3.58	1295.62
				2.27		
	6.84					
	5.54	+5.54	1301.16			
	4.235					

□ CUT ON S.TCD, N. SIDE OF RAY RD, 1100' E. OF HIGLEY RD.

□ CUT ON S.TCD, N. SIDE OF RAY RD, 1650' E. OF HIGLEY RD.

□ CUT ON S.TCD, N. SIDE OF RAY RD, 2200' E. OF HIGLEY RD.

R-BAR 2' N. OF & RAY RD. ½ MILE E. OF HIGLEY RD, S. ¼ COR. SEC. 23 0.1' BELOW PAVEMENT

MCFCD
BLK. 6

10-1-87

			1301.16				
				3.455			
TBM 6-20				2.15	-2.15	1299.01	□ CUT ON S.TCD, N. SIDE OF RAY RD, 3200' E. OF HIGLEY RD
				0.85			
	4.34						
	3.03	+3.03	02.04				
	1.715						
				3.885			
TBM 6-21				2.54	-2.54	1299.50	□ CUT ON S.TCD, N. SIDE OF RAY RD, 1550' W. OF RECKER RD.
				1.195			
	6.515						
	5.14	+5.14	04.64				
	3.77						
				5.965			
TBM 6-22				4.645	-4.645	1299.995	□ CUT ON S.TCD. N. SIDE OF RAY RD, 1050' W. OF RECKER RD.
				3.32			
	6.25						
	4.925	+4.925	04.92				
	3.60						
				4.79			
TBM 6-23				3.445	-3.445	1301.475	□ CUT ON S.TCD, N. SIDE OF RAY RD. 500' W. OF RECKER RD.
				2.095			
	6.00						
	4.685	+4.685	06.16				
	3.37						

MCFCD

BLK. 6 — 1306.16

				3.35		
TBM 6-24				2.14	−2.14	1304.02
				0.935		
	6.515					
	5.155	+5.155	09.175			
	3.795					
				5.34		
TBM 6-25				3.99	−3.99	1305.185
				2.64		
	6.005					
	4.685	+4.685	09.87			
	3.37					
				5.805		
TBM 6-26				4.435	−4.435	1305.435
				3.07		
	5.515					
	4.18	+4.18	09.615			
	2.845					
				5.25		
TBM 6-27				3.90	−3.90	1305.715
				2.55		
	5.41					
	4.07	+4.07	09.785			
	2.735					

10-1-87

8 12/82

−2.14 1304.02 ½" R-BAR IN PAVEMENT @ INT. OF RAY & RECKER RD's

−3.99 1305.185 □ CUT ON W.TCD, W. SIDE OF RECKER RD, 550' S. OF RAY RD.

−4.435 1305.435 □ CUT ON W. TCD. W. SIDE OF RECKER RD, 1100' S. OF RAY RD.

−3.90 1305.715 □ CUT ON W. TCD, W. SIDE OF RECKER RD, 1650' S. OF RAY RD.

MLFCD
BLK. 6

1309.785

10-1-87

			5.13			
TBM 6-28			3.79	-3.79	1305.995	□ CUT ON W. TCD, W. SIDE OF RECKER RD, 2200' S. OF RAY RD.
			2.45			
	5.68					
	4.395	+4.395	10.39			
	3.105					
			5.91			
TBM 6-29			4.81	-4.81	1305.58	R-BAR, 0.2' BELOW PVMNT. 3' E. OF ℄ OF RECKER RD, ½ MILE S. OF RAY RD E. ¼ COR. SEC. 26
			3.705			
	6.605					
	5.325	+5.325	10.905			
	4.045					
			5.84			
TBM 6-30			4.535	-4.535	1306.37	□ CUT ON E. TCD, W. SIDE OF RECKER RD, 3200' S. OF RAY RD
			3.235			
	5.905					
	4.63	+4.63	11.00			
	3.355					
			5.85			
TBM 6-31			4.605	-4.605	1306.395	□ CUT ON E. TCD, W. SIDE OF RECKER RD, 3700' S. OF RAY RD.
			3.36			
	6.38					
	5.05	+5.05	11.445			
	3.725					

10-1-87

MCFCD
BLK. 6

1311.445

				5.83		
TBM 6-32				4.49	-4.49	1306.955
				3.15		
	6.255					
	4.995	+4.995	11.95			
	3.735					
				5.865		
TBM 6-33				4.59	-4.59	1307.36
				3.31		
	6.43					
	5.005	+5.005	12.365			
	3.58					
SIDESHOT		-3.145		1309.22		
				5.06		
RO-34				3.66	-3.66	1308.705
				2.255		
	6.57					
	5.26	+5.26	13.965			
	3.95					
				5.495		
TBM 6-34				4.185	-4.185	1309.78
				2.87		
	5.88					
	4.60	+4.60	14.38			
	3.32					

□ CUT ON E. TCD, W. SIDE OF RECKER RD, 4200' S. OF RAY RD.

□ CUT ON E. TCD, W. SIDE OF RECKER RD, 600' N. OF WLMS. FLD. RD.

TOP OF PAVEMENT, TARGET ELEV. @ RO-34

MARI. CO. BC IN HH @ INT. OF RECKER & WILLIAMS FIELD RD

□ CUT ON S. TCD, N. SIDE OF WLMS. FLD. RD, 550' E. OF RECKER RD.

MCFCD
BLK. 6

10-5-87
80-95° CLR

RUGLAND
R McMURRAY
GRANT

812/88

			1314.38				
				5.56			
TBM 6-35				4.235	- 4.235	1310.145	□ CUT ON S. TCD, N. SIDE OF WLMS. FLD. RD, 1100' E. OF RECKER RD.
				2.91			
	6.80						
	5.42	+5.42	15.565				
	4.04						
				4.57			
TBM 6-36				3.14	- 3.14	1312.425	□ CUT ON S. TCD, N. SIDE OF WLMS. FLD. RD, 1650' E. OF RECKER RD.
				1.71			
	5.91						
	4.595	+4.595	17.02				
	3.28						
				5.46			
TBM 6-37				4.09	- 4.09	1312.93	□ CUT ON S. TCD, N. SIDE OF WLMS. FLD. RD. 2150' E. OF RECKER RD.
				2.725			
	6.03						
	4.81	+4.81	17.74				
	3.59						
				4.93			
TBM 6-38				3.73	- 3.73	1314.01	MARI. CO. BC IN HH, ℄ OF WLMS. FLD. RD, ½ MILE E. OF RECKER RD.
				2.53			
	5.90						
	4.62	+4.62	18.63				
	3.34						

MCFCD

812/90

10-5-87

BLK. 6			1318.63			
				4.06		
				2.745	−2.745	1315.885	□ CUT ON S.TCD, N. SIDE OF WLMS. FLD. RD, 3200' E. OF RECKER RD
TBM 6-39				1.43		
	5.61					
	4.35	+4.35	20.235			
	3.085					
				4.27		
				3.04	−3.04	1317.195	□ CUT ON S.TCD, N. SIDE OF WLMS. FLD. RD, 3750' E. OF RECKER RD.
TBM 6-40				1.805		
	7.085					
	5.73	+5.73	22.925			
	4.375					
				3.84		
				2.74	−2.74	1320.185	□ CUT ON NE. COR. OF WINGWALL @ N. END OF PRVT. DITCH S. SIDE OF WILLIAMS FLD. RD.
TBM 6-41				1.64		
	5.125					
	3.71	+3.71	23.895			
	2.29					
				5.06		
				3.71	−3.71	1320.185	□ CUT ON W. TCD, W. SIDE OF RWCD CANAL, 600' S. OF WILLIAS FLD. RD.
TBM 6-42				2.36		
	4.63					
	3.185	+3.185	23.37			
	1.54					

812/92

MCFCD

10-5-87

BLK. 6			1323.37 ↑				
				4.665			
TBM 6-43				3.32	-3.32	1320.05	□ CUT ON W.TCD, W. SIDE OF RWCD CANAL, 1150' S. OF WLMS. FLD. RD.
				1.98			
	4.565						
	3.15	+3.15	23.20 ↑				
	1.74						
				4.645			
TBM 6-44				3.27	-3.27	1319.93	□ CUT ON W.TCD, W. SIDE OF RWCD CANAL, 1700' S. OF WLMS. FLD. RD.
				1.895			
	3.41						
	3.03	+3.03	22.96 ↑				
	2.65						
				3.415			
HC-42				2.87	-2.87	1320.09	R-BAR @ GRND. LEVEL BETWEEN RWCD CANAL & PRVT. DITCH, 1900' S. OF WILMS. FLD. RD.
				2.32			
	4.59						
	3.20	+3.20	23.29 ↑				
	1.81						
				4.56			
TBM 6-45				3.20	-3.20	1320.09	□ CUT ON W.TCD, W. SIDE OF RWCD CANAL, 2400' S. OF WLMS. FLD. RD.
				1.845			
	3.99						
	3.25	+3.25	23.34 ↑				
	2.51						

MCFCD

812/94

10-5-87

			1323.34			
				5.63		
RO-35				4.76	- 4.76	1318.58
				3.89		
	5.36					
	4 ~~8~~. 195	+ 4.195	22.775			
	3.03					
				4.55		
TBM - 6-46				3.16	- 3.16	1319.615
				1.77		
	4.005					
	2.71	+ 2.71	22.325			
	1.42					
				4.19		
TBM 6-47				2.755	- 2.755	1319.57
				1.325		
	4.395					
	3.12	+ 3.12	22.69			
	1.84					
				4.97		
TBM 6-48				3.515	- 3.515	1319.175
				2.055		
	8.48					
	7.135	+ 7.135	26.31			
	5.79					

R-BAR @ GRND LEVEL, ALONG MID-SEC. LINE OF SEC. 36, 100' W. OF RWCD CANAL

□ CUT ON W. TCD, W. SIDE OF RWCD CANAL, 3200' S. OF WLMS. FLD. RD.

□ CUT ON W. TCD, W. SIDE OF RWCD CANAL, 3700' S. OF WLMS. FLD. RD.

□ CUT ON W. TCD, W. SIDE OF RWCD CANAL, 400' N. OF RR TRACK.

812/96

10-5-87

MCFCD BLK. 6			1326.31				
				2.83			
TBM 6-49				1.88	-1.88	1324.43	□ CUT ON SW. COR. OF RR. BRIDGE WINGWALL, W. SIDE OF RWCD CANAL
	2.555			0.93			
	2.22	+2.22	26.65				
	1.89						
SIDESHOT		-3.85				1322.80	TOP OF PAVEMENT, TARGET ELEV. @ HC-43
				4.135			
HC-43				3.81	-3.81	1322.84	CPS IN ℄ OF RITTENHOUSE RD & RWCD CANAL BRIDGE
	4.08			3.485			
	3.76	+3.76	26.60				
	3.435						
				2.50			
TBM 6-49				2.17	-2.17	1324.43	□ CUT ON SW. COR. OF RR BRIDGE
				1.835			
	2.49						
	1.565	+1.565	25.995				
	0.645						
				8.65			
TBM 6-50				7.65	-7.65	1318.345	CPS IN S. FACE OF TELE. POLE, N. SIDE OF RR, 2400' E. OF RECKER RD
				6.65			
	3.715						
	2.185	+2.185	20.53				
	0.66						

10-5-87

MCFCD BLK. 6			1320.53			
				4.98		
				3.46	- 3.46	1317.07
TBM 6-51				1.94		
	4.005					
	2.53	+2.53	19.60			
	1.06					
				6.31		
				4.78	- 4.78	1314.82
TBM 6-52				3.255		
	4.65					
	3.235	+3.235	18.055			
	1.82					
				6.55		
				4.965	-4.965	1313.09
TBM 6-53				3.375		
	4.80					
	3.42	+ 3.42	16.51			
	2.04					
SIDESHOT		- 4.79		1311.72		
				6.51		
				4.875	- 4.875	1311.635
VC-21				3.24		
	4.505					
	3.71	+3.71	15.345			
	2.91					

- CPS IN N. FACE OF TELE. POLE, N. SIDE OF RR. 1800' E. OF RECKER RD.
- CPS IN N. FACE OF TELE. POLE N. SIDE OF RR, 1200' E. OF RECKER RD.
- CPS IN N. FACE OF TELE. POLE 600' E. OF RECKER RD, N. SIDE OF RR. TRACK
- TOP OF PAVEMENT, TARGET ELEV. @ VC-21
- 1½" PIPE IN ℄ OF RECKER RD, ½ MILE S. OF WLMS. FLD. RD, W. ¼ COR. SEC. 36

MCFCD

812
100

10-5-87

BLK. 6			1315.345 ↑			
				4.34		
TBM 6-54				3.23	−3.23	1312.115 CPS IN E. FACE OF PP W. SIDE OF RECKER RD. 2000' S. OF WLMS. FLD. RD.
				2.115		
	3.73					
	2.25	+2.25	14.365 ↑			
	0.77					
				5.15		
TBM 6-55				3.47	−3.47	1310.895 CPS IN E. FACE OF PP W. SIDE OF RECKER RD, 1400' S. OF WLMS. FLD. RD.
				1.79		
	4.53					
	2.95	+2.95	13.845 ↑			
	1.37					
				4.545		
TBM 6-56				2.93	−2.93	1310.915 CPS IN E. FACE OF PP W. SIDE OF RECKER RD, 800' S. OF WLMS. FLD. RD.
				1.32		
	3.68					
	2.51	+2.51	13.425 ↑			
	1.34					
				4.53		
TBM 6-57				3.09	−3.09	1310.335 CPS IN W. FACE OF PP #14 E. SIDE OF RECKER RD, 300' S. OF WLMS. FLD. RD.
				1.65		
	3.96					
	2.65	+2.65	12.985 ↑			
	1.345					

10-5-87

MCFCD BLK. 6			1312.985				
				5.37			
RO-34				4.26	-4.26	1308.725	BC IN HH @ INT. OF RECKER & WILLIAMS FLD. RD. ⟨1308.705⟩ ADJ. TO ELEV. ON pg. 86
				3.15			
	5.07						
	3.72	+3.72	12.425				
	2.365						
				7.15			
TBM 6-58				5.815	-5.815	1306.61	□ CUT ON S. TCD, N. SIDE OF WLMS. FLD. RD, 550' W. OF RECKER RD.
				4.48			
	5.34						
	3.975	+3.975	10.585				
	2.605						
				5.77			
TBM 6-59				4.405	-4.405	1306.18	□ CUT ON S. TCD, N. SIDE OF WLMS. FLD RD, 1100' W. OF RECKER RD.
				3.04			
	3.745						
	3.13	+3.13	09.31				
	2.515						
SIDESHOT		-4.28		1305.03	TOP OF PAVEMENT, TARGET ELEV. @ VC-18		
				4.865			
VC-18				4.26	-4.26	1305.05	CPS. IN ℄ OF WLMS. FLD. RD, 1350' W. OF RECKER RD.
				3.655			
	4.58						
	3.175	+3.175	08.225				
	1.77						

MCFCD
BLK. 6

1308.225

				6.55	
TBM 6-60				5.19	
				3.83	
	5.035				
	3.655	+3.655	06.69		
	2.27				
				5.63	
TBM 6-61				4.25	
				2.87	
	4.32				
	2.94	+2.94	05.38		
	1.565				
				7.305	
TBM 6-62				5.965	
				4.625	
	6.79				
	5.45	+5.45	04.865		
	4.105				
				7.13	
TBM 6-63				5.61	
				4.09	
	7.13				
	6.21	+6.21	05.465		
	5.29				

10-5-87

- 5.19	1303.035	□ CUT ON S. TCD, N. SIDE OF WLMS. FLD RD, 1900' W. OF RECKER RD.
- 4.25	1302.44	□ CUT ON S. TCD, N. SIDE OF WLMS. FLD. RD, 2400' W. OF RECKER RD.
- 5.965	1299.415	□ CUT ON S. TCD, N. SIDE OF WLMS. FLD. RD, 2950' W. OF RECKER RD.
- 5.61	1299.255	□ CUT ON SE. COR. OF HDWALL, N. SIDE OF WLMS. FIELD RD, 100' E. OF RR TRACK.

MCFCD
BLK. 6

1305.465

10-5-87

SIDESHOT		-5.00		1300.465	TOP OF PAVEMENT, TARGET ELEV. @ RO-33
				5.885	
RO-33				5.005	
				4.13	
	3.41				
	2.05 + 2.05		02.51		
	0.69				
				6.65	
TBM 6-64				5.52	
				4.19	
	5.05				
	3.73 + 3.73		1300.72		
	2.41				
				6.44	
TBM 6-65				5.07	
				3.70	
	5.35				
	1.645 + 4.645		1300.295		
	3.94				
				5.82	
TBM 6-66				5.04	
				4.265	
	4.91				
	3.765 + 3.765		1299.02		
	2.615				

-5.005	1300.46	RR SPIKE IN E. OF WLMS. FLD RD, 150' W. OF RR. TRACKS.
-5.52	1296.99	□ CUT ON SE. COR. OF HEADWALL, N. SIDE OF WLMS. FLD RD, 500' W. OF RITTENHOUSE RD.
-5.07	1295.65	□ CUT ON S.TCD, N. SIDE OF WLMS. FLD. RD, 300' E. OF HIGLEY RD
-5.04	1295.255	MARI. CO. BC IN HH @ INT. OF WILLIAMS FIELD & HIGLEY RD'S.

10-5-87

MCFCD BLK. 6			1299.02			
				4.655		
TBM 6-67				3.325	-3.325	1295.695
				1.99		
	3.745					
	2.75	+2.75	98.445			
	1.755					
				4.355		
TBM 6-68				3.25	-3.25	1295.195
				2.14		
	6.49					
	5.485	+5.485	1300.68			
	4.475					
SIDESHOT		-1.88		1295.80		
				5.93		
HC-41				4.865	-4.865	1295.815
				3.80		
	3.735					
	2.45	+2.45	98.265			
	1.17					
				6.78		
TBM 6-69				5.435	-5.435	1292.83
				4.085		
	5.635					
	4.305	+4.305	97.135			
	2.97					

CPS IN W. FACE OF PP E. SIDE OF HIGLEY RD, 500' N. OF WLMS. FIELD RD.

CPS IN W. FACE OF PP, E. SIDE OF HIGLEY RD. 950' N. OF WLMS. FIELD RD.

TOP OF PAVEMENT, TARGET ELEV. @ HC-41

CPS ON E. EDGE OF HIGLEY RD @ ℄ OF VEST AVE.

□ CUT ON E. TCD, W. SIDE OF HIGLEY RD, 550' N. OF VEST AVE.

10-5-87

MCTD EL.P.C			1297.135				
				6.235			
TBM 6-70				4.90	- 4.90	1292.235	□ CUT ON E. TCD, W. SIDE OF HIGLEY RD, 1100' N. OF [illegible]
				3.565			
	4.64						
	4.015	+ 4.015	96.25				
	3.39						
				5.43			
TBM 6-71				4.71	- 4.71	1291.54	MARI. CO. BC IN HH, ℄ OF HIGLEY RD, ½ MILE S. OF RAY RD.
				3.985			
	6.48						
	5.175	+ 5.175	96.715				
	3.87						
				6.69			
TBM 6-72				5.33	- 5.33	1291.385	□ CUT ON E. TCD, W. SIDE OF HIGLEY RD, 2000' S. OF RAY RD.
				3.965			
	7.30						
	6.00	+ 6.00	97.385				
	4.70						
				7.78			
TBM 6-73				6.40	- 6.40	1290.985	□ CUT ON E. TCD, W. SIDE OF HIGLEY RD, 1450' S. OF RAY RD.
				5.015			
	6.32						
	4.95	+ 4.95	95.935				
	3.585						

10-5-87

MCFCD BLK. 6			1295.935			
				6.44		
TBM 6-74				5.16	-5.16	1290.775	□ CUT ON E. TCD, W. SIDE OF HIGLEY RD, 900' S. OF RAY RD.
				3.88		
	6.385					
	5.09	+5.09	95.865			
	3.80					
				6.91		
TBM 6-75				5.51	-5.51	1290.355	□ CUT ON E. TCD, W. SIDE OF HIGLEY RD, 400' S. OF RAY RD.
				4.11		
	6.465					
	5.29	+5.29	95.645			
	4.115					
				6.76		
HC-34				5.47	-5.47	1290.175	BC W HH @ INT. OF RAY & HIGLEY RD. (1290.20) ADJ. TO ELEV. ON PG. 76
				4.185		
	5.015					
	3.77	+3.77	93.97			
	2.525					
				6.05		
TBM 6-76				4.855	-4.855	1289.115	□ CUT ON S. TCD, N. SIDE OF RAY RD, 500' W. OF HIGLEY RD.
				3.66		
	3.905					
	2.655	+2.655	91.77			
	1.41					

MCFCD

BLK. 6			1291.77		
				4.81	
				3.495	
TBM 6-77				2.18	
	3.715				
	2.47	+2.47	90.745		
	1.23				
				6.705	
				5.315	
TBM 6-78				3.92	
	3.97				
	2.61	+2.61	88.04		
	1.75				
				5.15	
				3.765	
TBM 6-79				2.375	
	2.90				
	1.49	+1.49	85.765		
	0.085				
SIDESHOT		-5.965		1279.80	
				7.60	
				6.29	
VC-17				4.925	

10-5-87

-3.495	1288.275	□ CUT ON S.TCD, N. SIDE OF RAY RD, 1450' W. OF HIGLEY RD.
-5.315	1285.43	□ CUT ON S.TCD, N. SIDE OF RAY RD, 1600' W. OF HIGLEY RD.
-3.765	1284.275	□ CUT ON S.TCD, N. SIDE OF RAY RD, 2150' W. OF HIGLEY RD.
TOP OF PAVEMENT, TARGET ELEV. @ VC-17		
-6.29	1279.475	R-BAR IN ℄ OF RAY RD. 1/2 MILE W. OF HIGLEY RD.

MCFCD

Woods & Assoc.

(See Bk 817)

TP 'F' → TP 'G' → TP 'M'

∠1 = 179°59'02"

∠4 = 359°56'23"

MM = 179°59'06"

HD to TP 'M'

E4 = 89°41'58"

SD = 2457.75

HD = 2457.72

L. Van Dyke
R. McMurray
T. Craven

10/25/37

312
116

Powell Rd.

Tr. Pt 'F'
fd B.C

Extension
of Germain Rd

2632.48

Tr. Pt. 'G'
fd B.C.

179°59'02"

2457.72

Tr. Pt 'M'
fd Pk - 50' ±
of Bridge

McFSD | Woods & Assoc.

(See Bk 308 Pg 100)

TP 'D' → TP #104 → TP 'N'

∠#1 = 270°34'09" (270°34'11")

∠#4 = 2°15'30" (2°15'49")

MN ∠ = 270°33'53" (270°33'57")

Use - 270°33'55"

HD to TP #104

∠ =

SD =

HD =

HD to TP 'N'

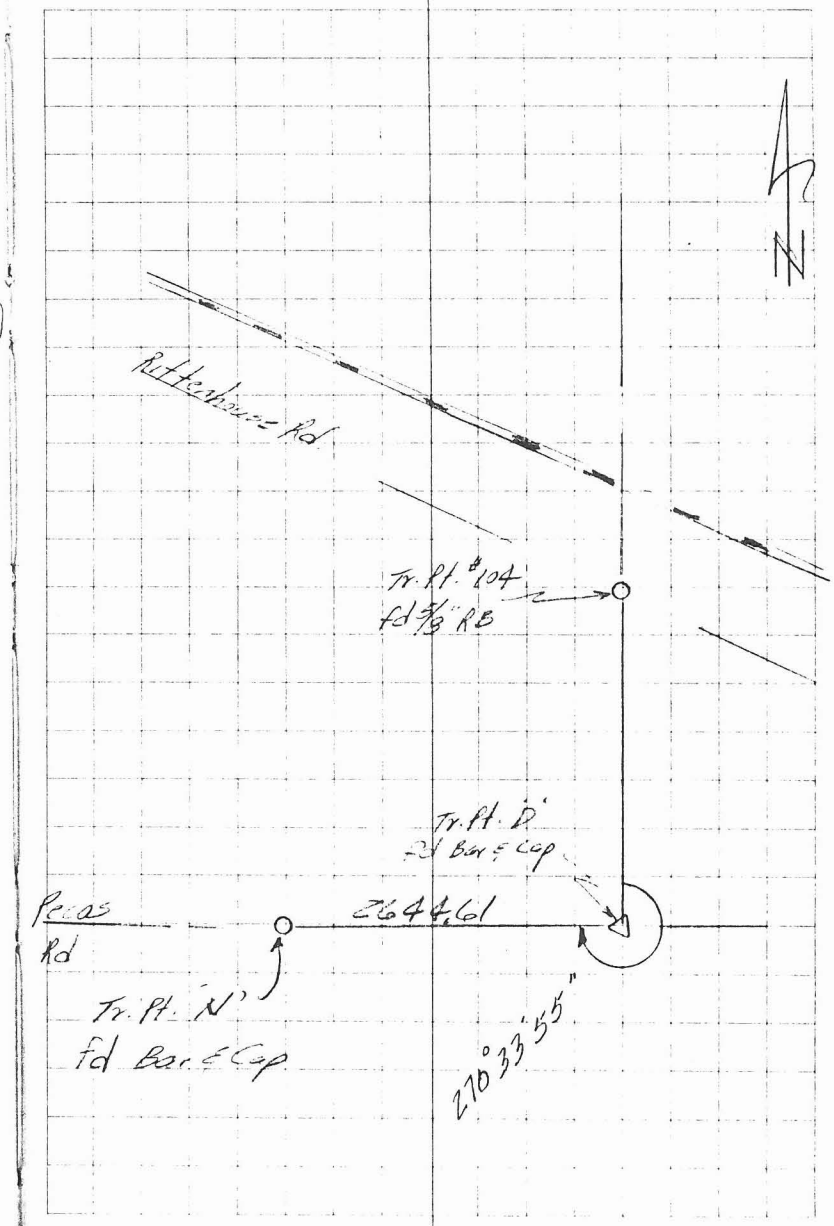
∠ = 90°04'51"

SD = 2644.61

HD = 2644.61

10/20/87

912
118



MCFCD | Woods & Assoc.

10/31/37

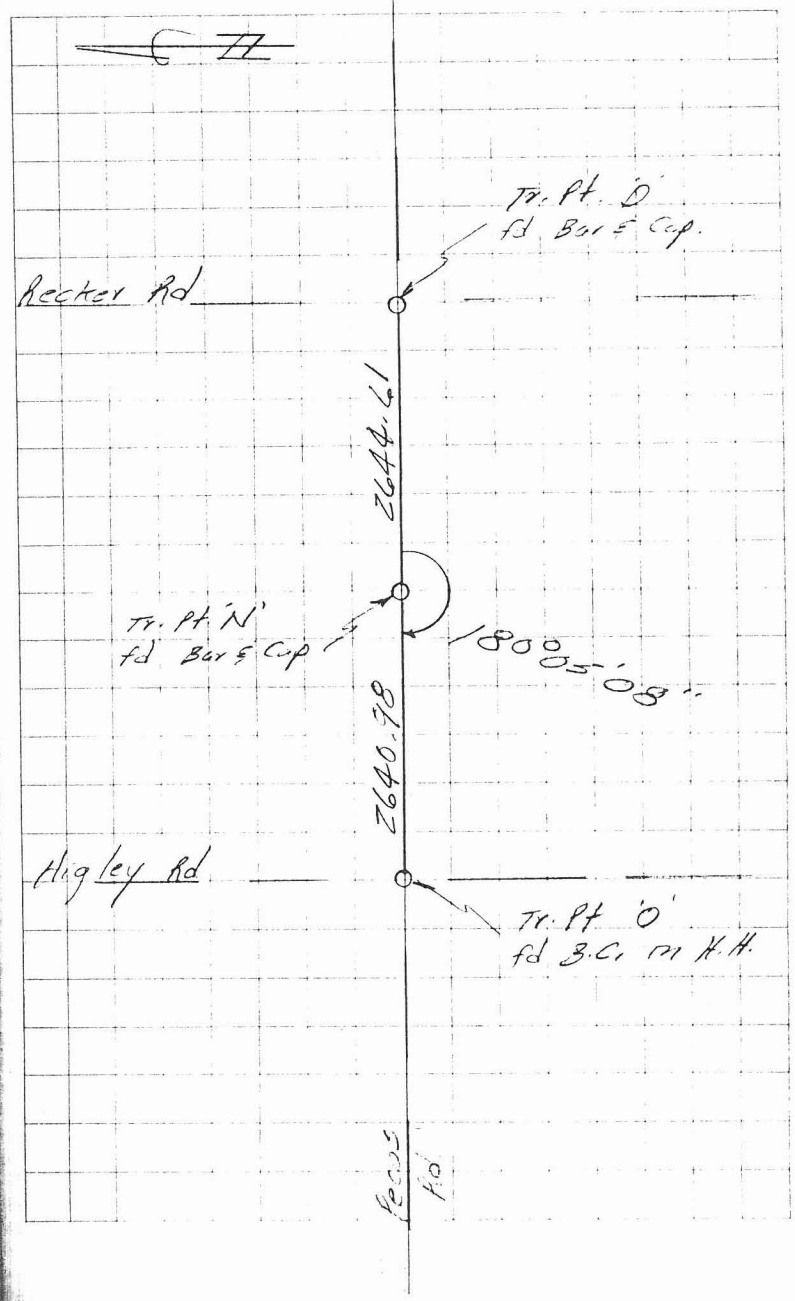
812
120

TP 'D' → TP 'N' → TP 'O'

∠#1 = 180°05'18"
∠#4 = 00°20'32"
MN∠ = 180°05'08"

HD to TP 'D'
Z∠ = 89°46'18"
SD: 2644.63
HD: 2644.61

HD to TP 'O'
Z∠ = 90°07'39"
SD: 2641.00
HD: 2640.99



MCRCD | Woods & Assoc.

10/30/37

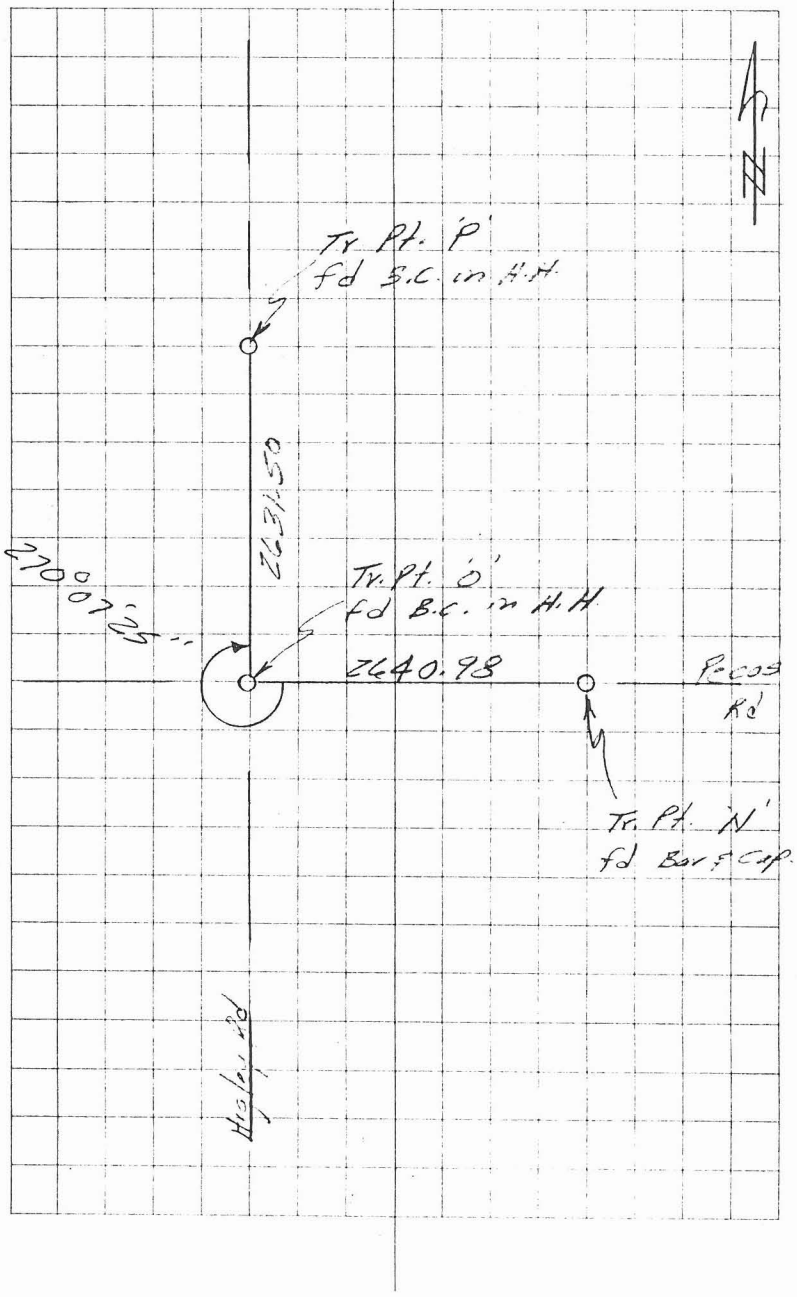
812/122

TP 'N' → TP 'O' → TP 'P'

∠#1 = 270°07'35"
∠#2 = 00°29'40"
MN ∠ = 270°07'25"

HD to TP 'N'
Z∠ = 89°44'07"
SD: 2641.00
HD: 2640.97

HD to TP 'P'
Z∠ = 89°57'30"
SD: 2631.50
HD: 2631.50



MCFCD Woods & Assoc.

10/25/87

812/124

TP '0' → TP 'P' → Tr. Pt #

∠#1 = 180°00'22" (180°00'12")

∠#4 = 00°00'12" (00°00'08")

MN∠ = 180°00'03" (180°00'02")

USC = 180°00'02"

HD to TP '0'

ZA = 89°54'00"

SD = 2631.50

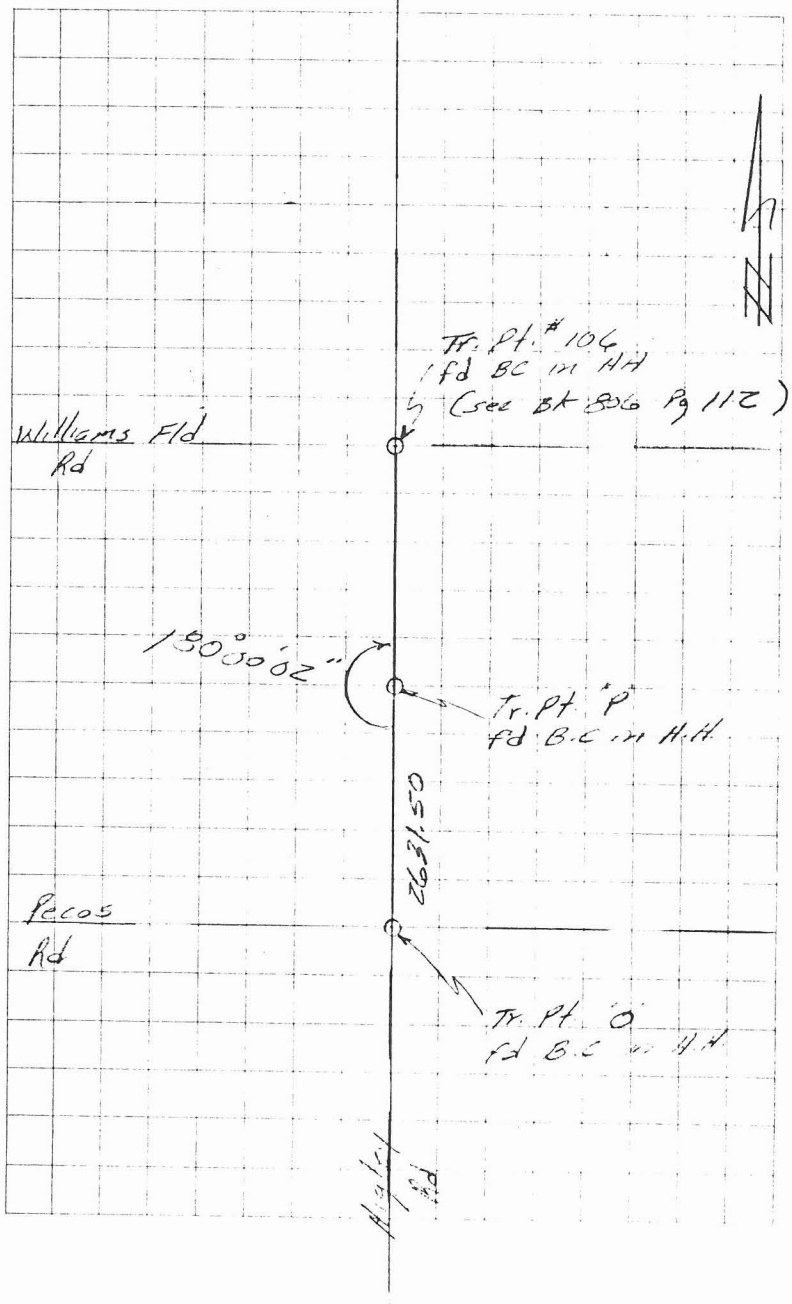
HD = 2631.50

HD to TP #

ZA = 89°58'00"

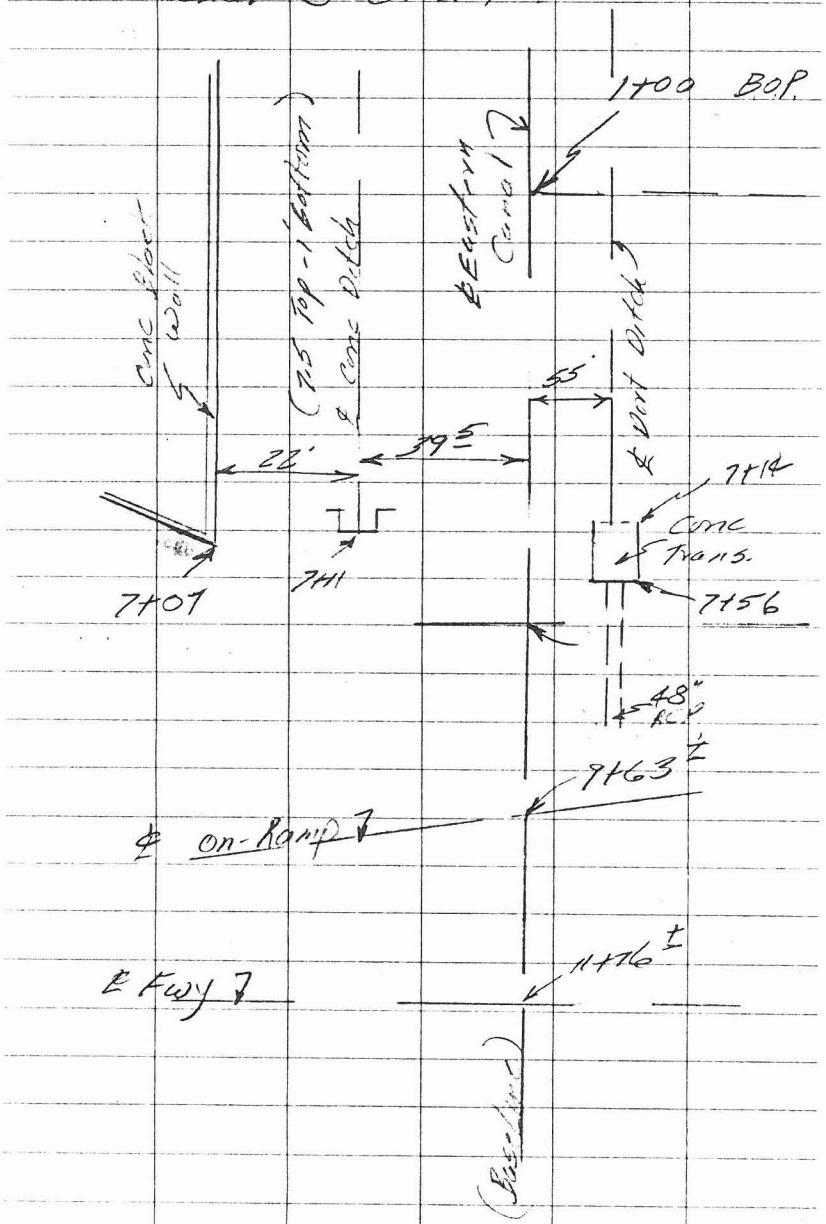
SD = 2632.84

HD = 2632.84



MCFCD Flood Control Study

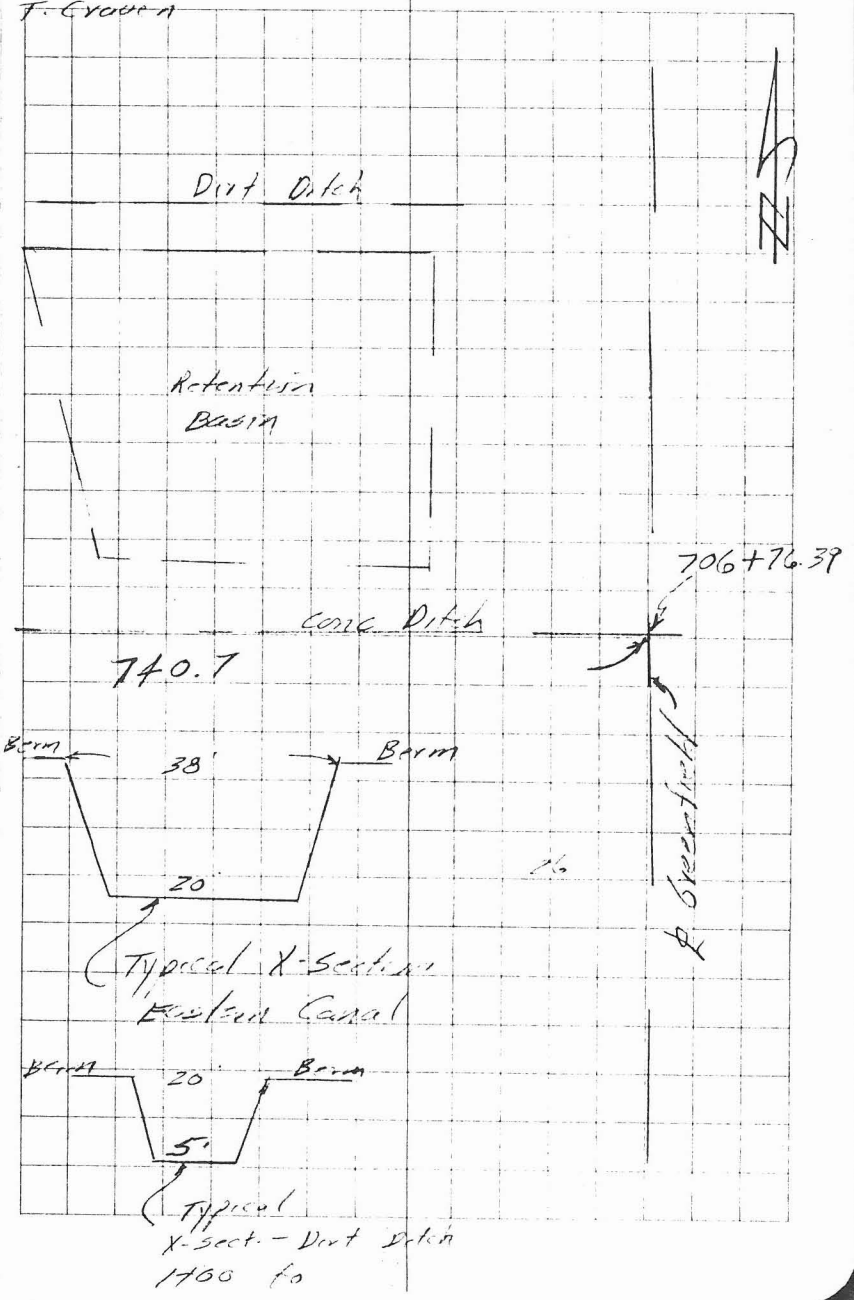
Canal @ Greenfield – I



L. Van Pyke
R. McHarney
F. Crowder

11/3/87

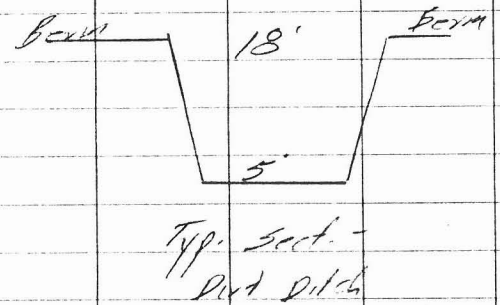
812
T26



MCFCD

Flood Control Study – Canal @ Greenfield

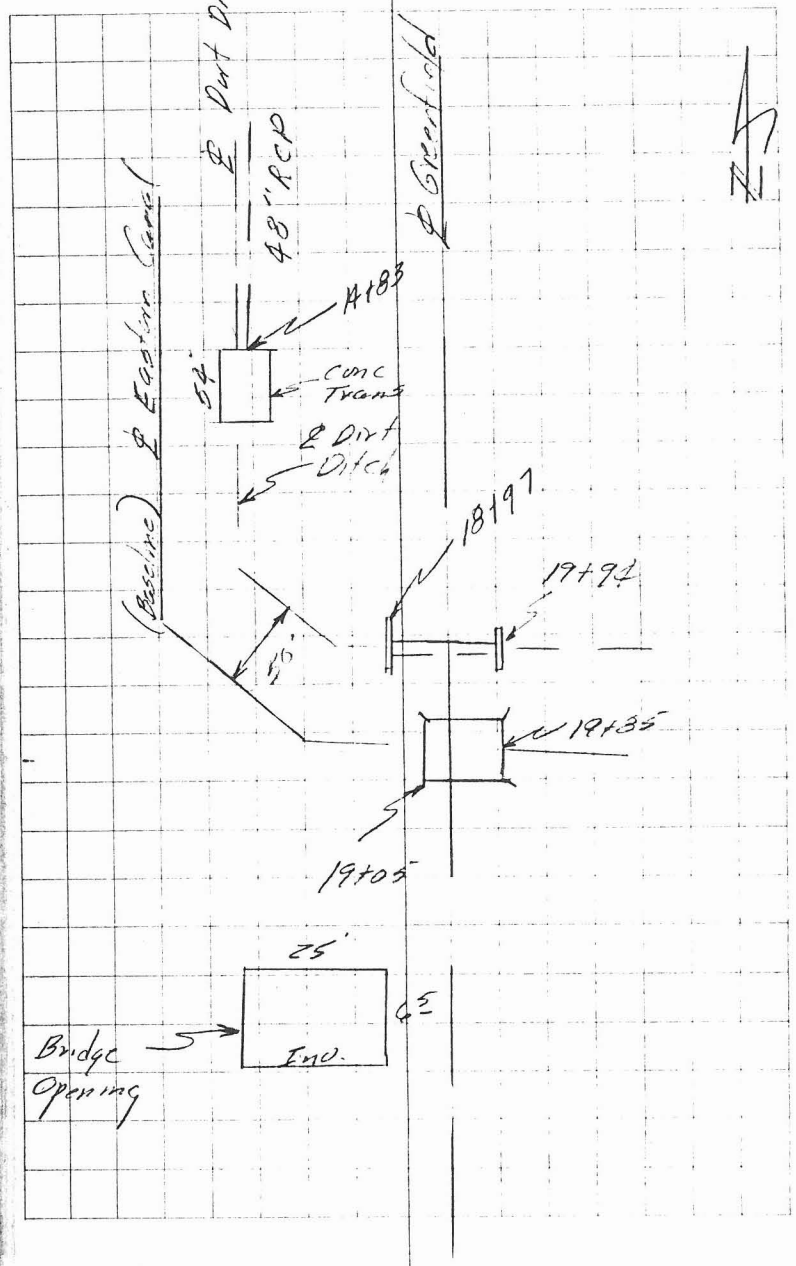
14+83 to



Typ. Sect. – Dirt Ditch

14/3/37

612/123



MCFCD | Flood Control Study - Canal @ Greenfield Rd.

TBM #RB-4	4.49	89.11 ✓		1284.62
TP #1	4.70	88.82 ✓	4.99	84.12 ✓
TP #2	5.27	89.35 ✓	4.74	84.08 ✓

1400

1700

2100

2400

NOTE'S	BY	DATE
CHECKED	LT	11-10-87
COPIED		
	TO	DATE
DELIVERED		

11/3/87

912/130

GS - 2 Greenfield Rd @ Eastern Canal

H&D - 13+00 - E. Berm - Canal

H&D - 7+00 - E. Berm - Canal

19.16 ✓ | 84.35 ✓ | 83.5 ✓ | 77.64 ✓ | 83.25 ✓ | 82.7 ✓ | 79.61 ✓
16.2 | 5.0 | 4.35 | 11.71 | 4.1 | 6.65 | 9.78
55 | 45 | 19 | B.L. | 19 | 33 | 39.5
H&D. | Berm | Berm | H&D. | Berm | Berm | H&D

82.3 ✓ | 82.55 ✓
7.05 | 6.8
61.5 | 44
Wall | Berm

79.2 ✓ | 84.0 ✓ | 84.2 ✓ | 77.30 ✓ | 83.1 ✓ | 82.75 ✓ | 79.57 ✓
10.15 | 5.35 | 5.15 | 12.05 | 5.85 | 6.6 | 9.78
55 | 45 | 19 | B.L. | 19 | 33 | 39.5
H&D. | Berm | Berm | H&D. | Berm | Berm | H&D

83.65 ✓ | 82.2 ✓ | 82.45 ✓
5.7 | 7.15 | 6.7
65 | 61.5 | 44
Berm | Wall | Berm

MCFCD

Flood Control Study
– Canal @ Greenfield Rd

1289.35

3+00

3+00

4+00

4+00

5+00

5+00

NOTE'S	BY	DATE
CHECKED	LT	11·10·87
COPIED		
	TO	DATE
DELIVERED		

11/3/87

6.12
13.2

18.8	83.85	83.45	77.28	83.15	82.4	79.65
10.55	5.5	5.4	12.07	6.2	6.95	9.70
55	45	19	B.L.	19	33	39.5
Inv	Berm	Berm	Inv	Berm	Berm	Inv
83.55					82.15	82.5
5.8					7.2	7.05
65					C1.5	44
Berm					Wall	Berm
18.55	84.45	83.95	77.26	83.1	82.6	79.12
10.80	4.9	5.4	12.09	6.25	6.75	9.73
55	45	19	B.L.	19	33	39.5
Inv.	Berm	Berm	Inv.	Berm	Berm	Inv
83.6					81.9	82.4
5.75					7.75	6.95
65					C1.5	44
Berm					Wall	Berm
18.4	83.85	84.35	77.21	82.0	82.6	79.55
10.95	5.5	5.0	12.14	6.35	6.75	9.80
55	45	19	B.L.	19	33	39.5
Inv	Berm	Berm	Inv	Berm	Berm	Inv
83.85					81.5	82.55
5.5					7.85	6.8
65					C1.5	44
Berm					Wall	Berm

MCFCD

Flood Control Study - Canal @ Greenfield Rd

1289.35

6+00

6+00

7+00

7+00

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7+11 End Conc Ditch

7+14 Beg Conc Trans.

7+54 End Conc Trans

11/3/87

312
134

18.4 ✓
10.95
55
Inv.

84.1 ✓
5.25
45
Berm

84.35 ✓
5.0
19
Berm

77.29 ✓
12.04
B.L.
Inv.

83.05 ✓
6.3
19
Berm

82.6 ✓
6.75
33
Berm

79.45 ✓
9.9
37.5
Inv.

84.15 ✓
5.2
65
Berm

81.6 ✓
7.75
61.5
Wall

82.65 ✓
6.7
44
Berm

18.25 ✓
11.10
55
Inv

84.1 ✓
5.25
45
Berm

84.05 ✓
5.3
19
Berm

77.86 ✓
12.09
B.L.
Inv

83.1 ✓
6.25
19
Berm

82.6 ✓
6.75
33
Berm

78.91 ✓
10.48
37.5
Inv

83.8 ✓
5.55
65
Berm

81.25 ✓
8.1
61.5
Wall

82.3 ✓
7.05
44
Berm

76.74 ✓
12.61
37.5
Inv.

83.68 ✓
5.67
Hdwl.

77.8 ✓
11.55
55
Inv.

84.07 ✓
5.28
Hdwl.

77.85 ✓
11.50
55
Inv.

MCFCD Flood Control Sta. 6+ Canal

1289.35

TP #2	5.35	89.45 ✓	5.25	84.10 ✓
8+00				
8+00 (T.S. = Toe of slope)				
9+00				
10+00				
TP #3	5.86	89.70 ✓	5.61	83.84 ✓

NOTE'S	BY	DATE
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11/3/87

H.L. - 7+00 - Lt. Berm

83.55 ✓	84.1 ✓	17.11 ✓	83.45 ✓	82.1 ✓	80.0 ✓
5.9	5.35	12.34	6.0	7.35	9.15
40	19	B.L.	19	5.6	10.4
Berm	Berm	Inv.	Berm	Face	

18.35 ✓	18.55 ✓	79.65 ✓
11.1	10.9	10.4
25%	20%	15%

83.55 ✓	83.85 ✓	77.16 ✓	83.5 ✓	83.45 ✓
5.9	5.6	12.29	5.95	6.0
40	19	B.L.	19	40
fc	Berm	Inv.	Berm	T.S.

83.6 ✓	83.55 ✓	77.17 ✓	83.6 ✓	83.6 ✓
5.8	5.9	12.29	5.85	5.85
39	19	B.L.	19	40
T.S.	Berm	Inv.	Berm	T.S.

H.L. - 10+00 - Lt. Berm

MCFCD | Flood Control | Study

1289.70
T

11+00

12+00

NOTE'S	BY	DATE
CHECKED	LT	11.10.87
COPIED		
	TO	DATE
DELIVERED		

13+00

7th 1 | 5.11 | 89.25 ✓ | 5.56 | 84.14 ✓
A

14+00

14+23 | Beg. Conc Trans.

11/3/87

9.12
133

83.75 ✓ | 84.1 ✓ | 77.15 ✓ | 83.95 ✓ | 83.75 ✓
5.95 | 5.6 | 12.55 | 5.75 | 5.95
40 | 19 | B.L. | 19 | 40
T.S. | Berm | Inv. | Berm | T.S.

83.6 ✓ | 84.15 ~~84.15~~ | 76.94 ✓ | 83.6 ✓ | 83.2 ✓
6.1 | 5.55 | 12.76 | 6.1 | 6.5
40 | 19 | B.L. | 19 | 40
T.S. | Berm | Inv. | Berm | T.S.

84.0 ✓ | 84.0 ✓ | 77.01 ✓ | 83.25 ✓ | 83.8 ✓
5.7 | 5.7 | 12.69 | 6.45 | 6.9
40 | 19 | B.L. | 19 | 39
T.S. | Berm | Inv. | Berm | Berm

14+00 - Loop Return

83.05 ✓ | 82.85 ✓ | 76.93 ✓ | 82.9 ✓ | 82.75 ✓
6.2 | 6.4 | 12.32 | 6.35 | 6.9
39 | 19 | B.L. | 19 | 39
Berm | Berm | Inv. | Berm | Berm

83.46 ✓ | 76.97 ✓
5.79 | 12.23
Hdwl | 50
| Inv.

MCFCD

Flood Control Study
Canal @ Greenfield

1289.25

15+00

15+00

16+00

16+00

17+00

17+00

NOTE'S	BY	DATE
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	TO	DATE
DELIVERED		

11/3/87

812/140

93
16'
12.32
50
Inv.

83.3
3.95
41
Berm

83.45
5.8
19
Berm

76.90
12.35
8.L
Inv.

83.1
6.15
19
Berm

82.35
6.9
39
Berm

82.4
6.85
59
Berm

76.95
12.3
50
Inv

84.1
5.15
41
Berm

83.8
5.45
19
Berm

76.10
12.55
8.L.
Inv.

82.8
6.45
19
Berm

82.45
6.8
39
Berm

82.3
6.95
59
Inv

76.55
12.7
50
Inv

84.0
5.25
41
Berm

83.6
5.65
19
Berm

76.35
12.90
8.L.
Inv.

82.4
6.85
19
Berm

81.85
7.4
39
Berm

81.65
7.6
59
Berm

MCFCD | Flood Control Study
Greenfield @ Canal

1289.25

18+00

18+00

18+97 End Dirt Ditch

NOTE'S	BY	DATE
CHECKED	LT	11-10-87
COPIED		
	TO	DATE
DELIVERED		

19+50

TBM "RP-4 4.88 89.50 4.59 84.66 (1234.62)

19+45 ℄ Greenfield

19+94 Beg. Dirt Ditch

11/3/87

8.2
142

11.0 94.4 84.2 16.45 82.35 81.8
12.55 4.85 5.05 12.80 6.9 7.45
50 41 19 B.L. 19 39
Inv. Berm Berm Inv Berm Berm

81.8
7.45
59
Berm

82.54 16.83
6.71 12.42
Hdwl. 50
Inv

85.25 84.8 16.45 84.05 84.9
4.0 4.45 12.80 5.2 4.35
41 19 B.L. 19 39
Berm Berm Inv Berm Berm

CPS - Loop Return

84.46
5.04
B.L.

81.79 16.54
7.71 12.96
Hdwl 48
Inv.

MCFCD

Flood Control Study
Greenfield @ Canal

1289.50

20+00

20+00

21+00

21+00

22+00

22+00

NOTE'S	BY	DATE
CHECKED	LT	11-10-87
COPIED		
	TO	DATE
DELIVERED		

TBM #RO-4

4.33

84.62

(1334.62)

11/3/87

8/2
194

16.6	85.3	85.55	76.15	83.65	84.2
12.9	4.2	3.95	13.35	5.85	5.3
48	39	19	B.L.	19	39
Inv.	Berm	Berm	Inv	Berm	Berm

83.7
5.8
57
Berm

16.3	83.4	83.25	76.46	82.75	81.85
13.2	5.9	6.25	13.04	6.75	7.65
48	39	19	B.L.	19	39
Inv.	Berm	Berm	Inv	Berm	Berm

81.45
7.85
57
Berm

16.45	83.4	83.3	76.51	82.35	81.95
13.05	6.1	6.2	12.99	7.15	7.55
48	39	19	B.L.	19	39
Inv.	Berm	Berm	Inv.	Berm	Berm

81.75
7.75
57
Berm

cps - Loop Return

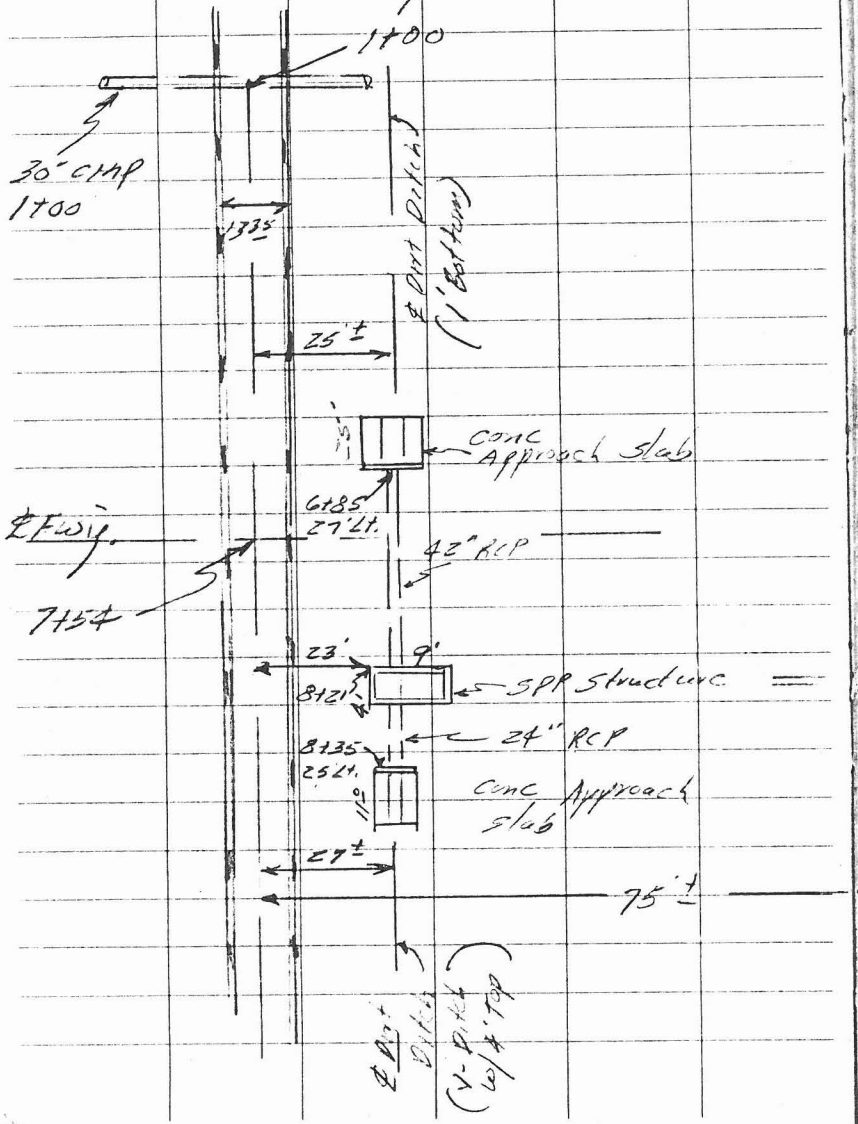
MCFCD

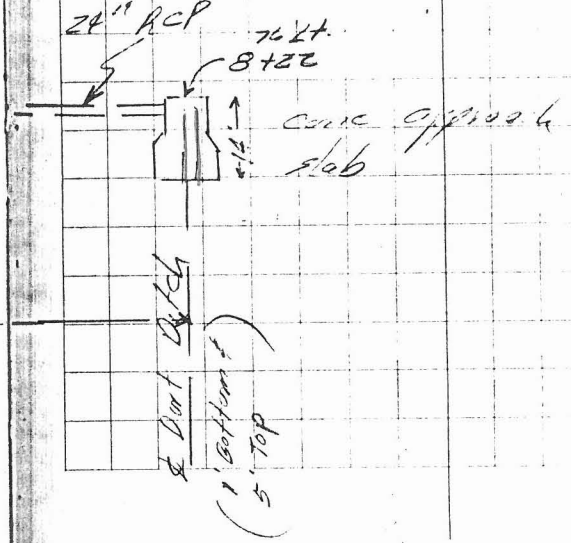
Flood Control Study
Railroad @ Superstition Fwy

11/3/137

812/146

1700 = N. Edge Retention Basin
B.L. = Midway between R.R.





MCFCD # | Flood Control Study Railroad @ Fwy

TEM2-13 | 5.44 | 17.05 ↑ | 1211.61

12+00

12+00

11+00

11+00

10+00

10+00

NOTE'S	BY	DATE
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COPIED		
	TO	DATE
DELIVERED		

11/3/87

EIC 148

CPS Rolla - E 5.46 ft - 400' S. of Fwy

11.45	10.25	11.15	13.5	13.5	13.45	10.9
5.46	6.8	5.3	3.55	3.55	3.6	6.15
28	26	24	16	B.C.	12	32
Berm	Inv.	Berm	Berm		Berm	Fc.

10.8	09.1	10.75
6.25	7.95	6.3
72	74.5	77
Berm	Inv.	Berm

11.3	10.45	11.5	13.4	13.85	13.65	10.75
5.75	6.6	5.55	3.65	3.2	3.4	6.1
28	26	24	16	B.C.	12	32
Berm	Inv.	Berm	Berm		Berm	Fc

10.85	09.85	10.45
6.2	8.0	6.6
72	74.5	77
Berm	Inv.	Berm

11.85	11.2	12.25	13.35	13.9	13.8	11.05
5.2	5.85	4.8	3.7	3.15	3.25	6.0
29	27	25	13	B.C.	12	32
Berm	Inv.	Berm	Berm		Berm	Fc

11.3	09.45	11.1
5.75	7.6	5.95
72.5	75	77.5
Berm	Inv.	Berm

MCFCD | Flood Control Study
Railroad @ Freeway
12/17.05

9+00

9+00

3+35 Beg. Dirt Ditch

8+22 Beg. Dirt Ditch

8+00

NOTE'S	BY	DATE
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COPIED		
	TO	DATE
DELIVERED		

7+00

11/3/87

812
750

12.2 11.25 12.5 13.7 13.9 13.45 12.65
4.85 5.8 4.55 3.35 3.15 3.4 4.4
29 27 25 13 B.L. 12 32
Berm Inv Berm Berm Berm Fe

12.3 10.65 12.05
4.75 6.4 5.0
72.5 25 77.5
Berm Inv Berm

13.06 07.42
3.99 9.63
Hdwl 25 B.L.
Inv.

12.30 07.16
4.75 9.89
Hdwl 76 B.L.
Inv.

12.25 12.75 13.4 13.4 14.0 13.65 12.65 12.8
4.8 4.3 4.65 3.65 3.05 3.4 4.4 4.85
87 43 22 10 B.L. 12 15 26
T.S. T.S. Berm Berm T.S. T.S.
FFc

12.7 13.1 12.65 14.05 14.0 14.0 13.0 13.1
4.35 3.95 4.4 3.0 3.05 3.05 4.05 3.95
87 43 22 13 B.L. 12 15 26
T.S. T.S. Berm Berm T.S. T.S.
FFc

MCFCD | Flood Control Study
Railroad @ Freeway
1217.05

6+85 | End Dirt Ditch

TP(E)	5.78	18.45	4.38	12.67

6+00

5+00

4+00

3+00

NOTE'S	BY	DATE
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COPIED		
	TO	DATE
DELIVERED		

11/3/87

912
152

0.6' 5.4
10.51 4.38 12.67
Hdwl. 27 Inv

B.C. in Hdwl. - 6+85 - 27' Lt

12.65	13.2	09.7	13.85	14.35	14.35	13.6	14.1
5.8	5.25	8.75	4.6	4.1	4.1	4.85	4.35
87	34	26	18	B.L.	12	15	32
fc	Berm	Inv.	Berm		Berm	T.S.	fc

11.75	13.25	10.25	14.3	14.45	14.4	13.55	12.9
6.7	5.2	8.2	4.15	4.2	4.05	4.9	5.55
87	34	26	18	B.L.	12	15	32
Fc	Berm	Inv	Berm		Berm	T.S.	Fc

12.55	13.8	11.55	13.85	14.4	14.5	13.6	12.75
5.9	4.65	6.9	4.6	4.05	3.95	4.8	5.7
88	32	25	17	B.L.	12	15	32
Fc	Berm	Inv	Berm		Berm	T.S	Fc

13.15	13.8	11.15	13.85	14.5	14.75	13.8	12.95
5.3	4.65	7.3	4.6	3.95	3.7	4.65	5.5
57	32	25	17	B.L	12	15	32
	Berm	Inv	Berm		Berm	T.S	fc

MCFCD

Flood Control Study - Railroad @ Superstition Fwy.

12+18.45

2+00

2+00

1+00

1+00

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TO		DATE
DELIVERED		

TP#2	4.57	16.89	6.13	12.32
TBM 2-13			5.25	11.64 (12.46)

11/2/87

012
154

13.5 12.05 14.15 14.6 14.9 14.05 13.65

4.8 6.4 4.3 3.85 3.55 4.4 4.3

30 24 17 B.L. 12 16 3C

Berm Inv. Berm Berm T.S. Fc

11.7

6.75

61

Berm

14.25 10.95 14.6 14.75 14.75 10.82

7.2 7.50 3.85 3.7 3.7 7.63

27 19 16 B.L. 12 17

Inv. Inv Berm Berm Inv

Pitch 30" CMP 30" CMP

13.5 13.45 12.7 13.15

4.95 5.0 5.75 5.3

34 5C 3C 21

Berm Berm Fc

HW Cor.

Top Hdwy - 8+72 - 96 Lt.

CRS. P.P. Pole - Log. Return