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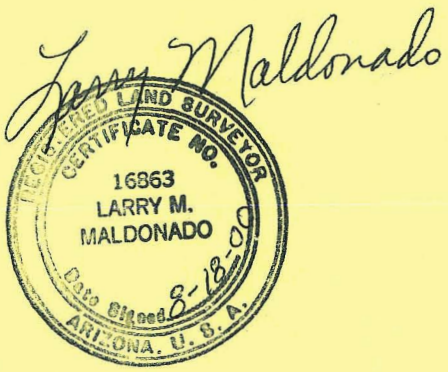
Durango ADMP
Buckeye Feeder Canal
91st Avenue to Agua Fria River
FCD 99-41

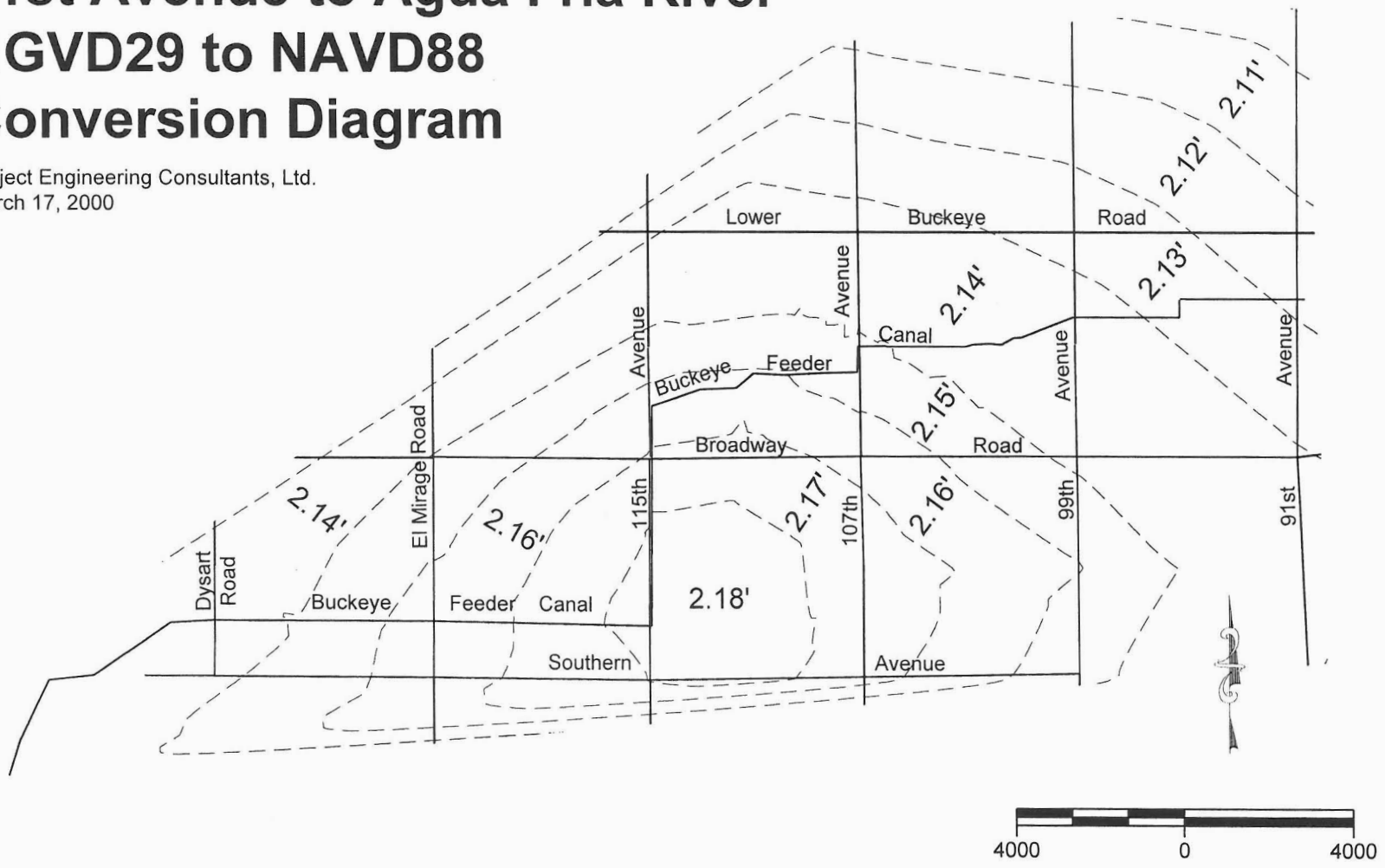
Survey Report



2320 W. Peoria Avenue, Suite C-122, Phoenix, Arizona 85029 (602) 906-1901 FAX (602) 906-3080

Durango ADMP
Buckeye Feeder Canal
91st Avenue to Agua Fria River
NGVD29 to NAVD88
Conversion Diagram

Project Engineering Consultants, Ltd.
March 17, 2000



Point No.	NAD 27 Horizontal Coordinates	NGVD 29 Elevation	Section Data	Description
38	870254.744 378730.339	939.806	N¼ Corner, Section 36, T1N, R1W	Brass Cap in Handhole @ intersection of 119th Avenue and Southern Avenue
39	872892.783 376122.809	934.870	E¼ Corner, Section 26, T1N, R1W	Brass Cap in Handhole in center of El Mirage Road, +/-½ mile north of Southern Avenue
40	870289.593 373495.874	931.654	N¼ Corner, Section 35, T1N, R1W	Brass Cap in Handhole in center of Southern Avenue, +/-½ mile west of El Mirage Road
43	870322.182 368282.406	920.486	N¼ Corner, Section 34, T1N, R1W	Iron Pipe in pothole in center of Southern Avenue extended, +/-½ mile west of Dysart Road
8004		983.943	E¼ Corner, Section 18, T1N, R1E	Fd. 1" Iron Pipe in Pothole @ intersection of 107th Avenue and Durango Street
8007		965.059	E¼ Corner, Section 19, T1N, R1E	Fd. 3/4" Iron Pipe in Pothole in center of 107th Avenue, +/-½ north of Broadway Road
8077	880879.712 396795.672	990.619	NE Corner, Section 21, T1N, R1E	Brass Cap in Handhole @ intersection of 91st Avenue and Lower Buckeye Road
8084	880856.682 386431.909	970.842	NE Corner, Section 19, T1N, R1E	Fd. 3/4" Iron Pipe in Pothole @ intersection of 107th Avenue and Lower Buckeye Road
8085	880876.004 391617.927	982.448	NE Corner, Section 20, T1N, R1E	3/4" Iron Bar in Pothole @ intersection of 99th Avenue and Lower Buckeye Road
8086	878216.614 391658.541	980.720	E¼ Corner, Section 20, T1N, R1E	Fd. Stone w/chiseled "X" in pothole (0.60' below pavement) in center of 99th Avenue, +/-½ mile north of Broadway Road
8092	886195.625 391695.858	993.386	NE Corner, Section 17, T1N, R1E	Brass Cap in Handhole (0.60' below rim) @ intersection of 99th Avenue and Buckeye Road
9056	880885.429 394210.557	986.710	N¼ Corner, Section 21, T1N, R1E	2" Brass Cap in Pothole (0.25' below pavement) in center of Lower Buckeye Road, +/-½ mile east of 99th Avenue
9057	880923.414 389010.598	977.554		Set Brass Cap flush w/concrete +/-50' north of centerline of Lower Buckeye Road, +/-½ mile west of 99th Avenue, +/-2.0' south of concrete headwall at concrete lined ditch; stamped "ERM"

Durango ADMP
Buckeye Feeder Canal
91st Avenue to Agua Fria River

ERM Data

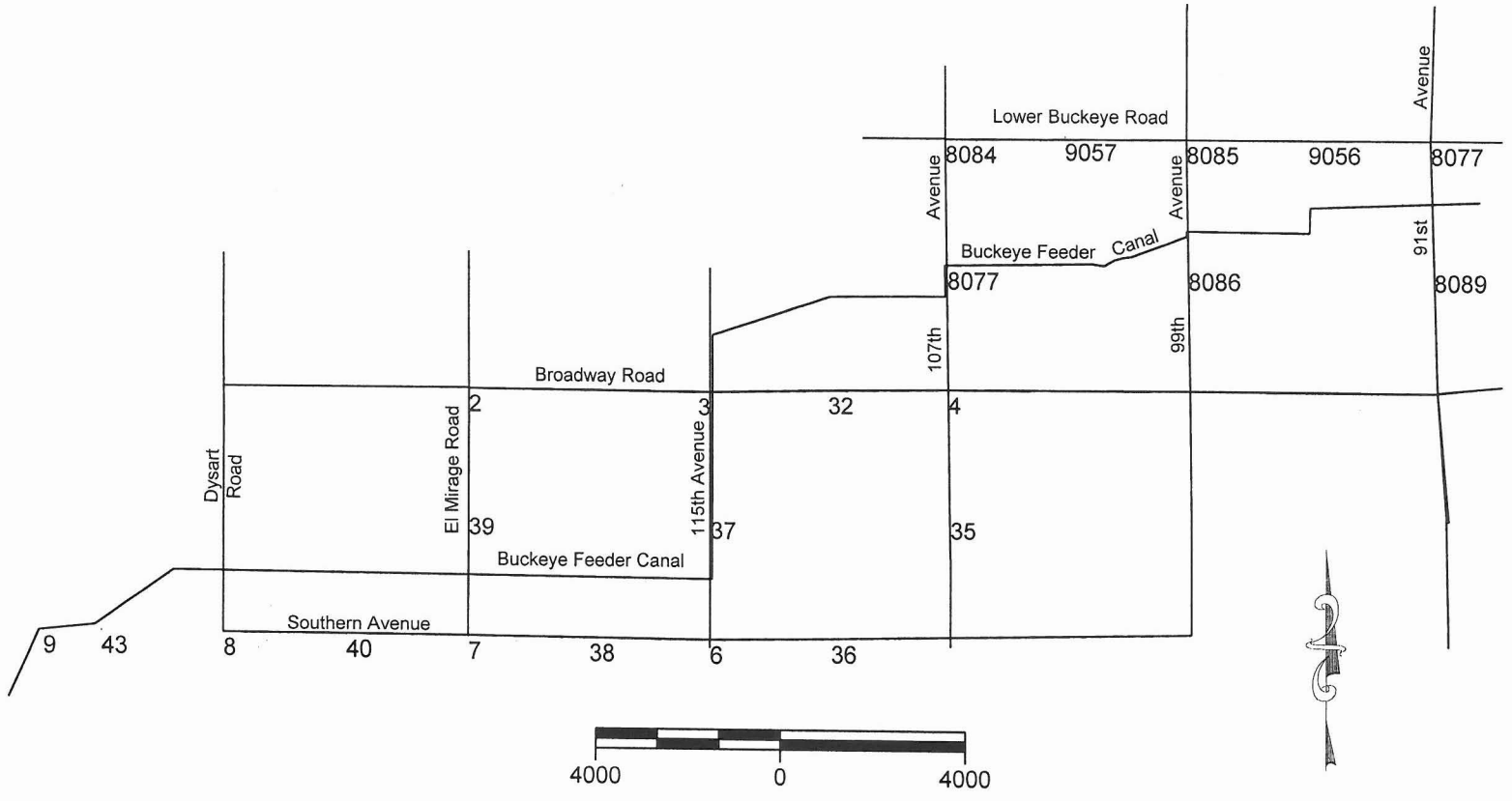
Project Engineering Consultants, Ltd.

NAD 27 SPC
NGVD 29 Elevations - 3rd Order

Note: Prime BM for this project is Brass Cap in Handhole @ intersection of 107th Avenue and Buckeye Road, Elevation = 993.220'

Point No.	NAD 27 Horizontal Coordinates	NGVD 29 Elevation	Section Data	Description
2	875508.275 376128.196	937.530	NE Corner, Section 26, T1N, R1W	Brass Cap in Handhole @ intersection of El Mirage Road and Broadway Road
3	875473.813 381350.514	946.290	NE Corner, Section 25, T1N, R1W	Brass Cap in Handhole @ intersection of 115th Avenue and Broadway Road
4	875546.954 386493.136	973.100	NE Corner, Section 30, T1N, R1E	Brass Cap in Handhole @ intersection of 107th Avenue and Broadway Road
6	870231.492 381342.469	943.694	NE Corner, Section 36, T1N, R1W	Brass Cap in Handhole @ intersection of 115th Avenue and Southern Avenue
7	870277.986 376117.509	935.643	NE Corner, Section 35, T1N, R1W	Brass Cap in Handhole @ intersection of El Mirage Road and Southern Avenue
8	870301.573 370873.548	929.311	NE Corner, Section 34, T1N, R1W	Brass Cap in Handhole @ intersection of Dysart Road and Southern Avenue
9	870313.765 367059.471	922.016		Brass Cap flush w/concrete @ Gauging Station, northside of Buckeye Feeder Canal, +/-3800' west of Dysart Road at Southern Avenue extended
32	875521.355 383894.116	961.288	N¼ Corner, Sectio 30, T1N, R1E	Brass Cap in Handhole in center of Broadway Road, +/-½ mile east of 115th Avenue
35	872891.993 386535.919	965.474	E¼ Corner, Section 30, T1N, R1E	Brass Cap flush w/pavement @ intersection of 107th Avenue and Roeser Road
36	870264.427 383959.361	948.091	N¼ Corner, Sectio 31, T1N, R1E	Brass Cap in Handhole @ intersection of 111th Avenue and Southern Avenue
37	872853.529 381346.681	942.241	E¼ Corner, Section 25, T1N, R1W	Brass Cap in Handhole @ intersection of 115th Avenue and Roeser Road

Durango ADMP
Buckeye Feeder Canal
91st Avenue to Agua Fria River
Elevation Reference Monument Diagram



CDA 565.5

Survey Control

NAD 27 SPC
NGVD 29 Elevations - 3rd Order

Note: Prime BM for this project is Brass Cap in Handhole @ intersection of 107th Avenue and Buckeye Road, Elevation = 993.220'

Point No.	NAD 27 Horizontal Coordinates	NGVD 29 Elevation	Section Data	Description
1	871649.170 375826.876	933.317		Set Bridge Spike
2	875508.275 376128.196	937.530	NE Corner, Section 26, T1N, R1W	Brass Cap in Handhole @ intersection of El Mirage Road and Broadway Road
3	875473.813 381350.514	946.290	NE Corner, Section 25, T1N, R1W	Brass Cap in Handhole @ intersection of 115th Avenue and Broadway Road
4	875546.954 386493.136	973.100	NE Corner, Section 30, T1N, R1E	Brass Cap in Handhole @ intersection of 107th Avenue and Broadway Road
6	870231.492 381342.469	943.694	NE Corner, Section 36, T1N, R1W	Brass Cap in Handhole @ intersection of 115th Avenue and Southern Avenue
7	870277.986 376117.509	935.643	NE Corner, Section 35, T1N, R1W	Brass Cap in Handhole @ intersection of El Mirage Road and Southern Avenue
8	870301.573 370873.548	929.311	NE Corner, Section 34, T1N, R1W	Brass Cap in Handhole @ intersection of Dysart Road and Southern Avenue
9	870313.765 367059.471	922.016		Brass Cap flush w/concrete @ Gauging Station, northside of Buckeye Feeder Canal, +/-3800' west of Dysart Road at Southern Avenue extended
15	870315.529 366977.327	919.013		Set Bridge Spike
16	868742.828 366251.895	918.83698		Set Bridge Spike
17	870439.789 368148.096	924.58502		Set Bridge Spike
18	871032.524 369000.025	923.79797		Set Bridge Spike

Point No.	NAD 27 Horizontal Coordinates	NGVD 29 Elevation	Section Data	Description
19	871613.256 369812.421	925.42999		Set Bridge Spike
20	871651.439 370817.069	925.948		Set Bridge Spike
21	871646.085 372030.634	929.07001		Set Bridge Spike
22	871644.664 373023.687	929.16302		Set Bridge Spike
23	871642.852 374068.210	930.422		Set Bridge Spike
24	871639.575 375107.736	932.56403		Set Bridge Spike
25	871635.707 376761.729	935.52502		Set Bridge Spike
26	871556.549 378154.488	937.948		Set Bridge Spike
27	871541.612 379617.345	938.474		Set Bridge Spike
28	871516.299 381385.593	940.26398		Set Bridge Spike
29	873266.054 381399.464	943.22998		Set Bridge Spike
30	874802.543 381403.398	946.04999		Set Bridge Spike
31	876685.186 381395.417	954.86401		Set Bridge Spike

Point No.	NAD 27 Horizontal Coordinates	NGVD 29 Elevation	Section Data	Description
32	875521.355 383894.116	961.288	N¼ Corner, Section 30, T1N, R1E	Brass Cap in Handhole in center of Broadway Road, +/- ½ mile east of 115th Avenue
33	878116.674 381339.852		E¼ Corner, Section 24, T1N, R1W	Brass Cap in Handhole in center of 115th Avenue, +/-½ mile north of Broadway Road
34	878199.676 386464.200		E¼ Corner, Section 19, T1N, R1E	Iron Pipe in pothole in center of 107th Avenue, +/-½ mile north of Broadway Road
35	872891.993 386535.919		E¼ Corner, Section 30, T1N, R1E	Brass Cap flush w/pavement in center of 107th Avenue, +/-½ mile south of Broadway Road
36	870264.427 383959.361	948.091	N¼ Corner, Sectio 31, T1N, R1E	Brass Cap in Handhole @ intersection of 111th Avenue and Southern Avenue
37	872853.529 381346.681	942.241	E¼ Corner, Section 25, T1N, R1W	Brass Cap in Handhole @ intersection of 115th Avenue and Roeser Road
38	870254.744 378730.339	939.806	N¼ Corner, Section 36, T1N, R1W	Brass Cap in Handhole @ intersection of 119th Avenue and Southern Avenue
39	872892.783 376122.809	934.870	E¼ Corner, Section 26, T1N, R1W	Brass Cap in Handhole in center of El Mirage Road, +/- ½ mile north of Southern Avenue
40	870289.593 373495.874	931.654	N¼ Corner, Section 35, T1N, R1W	Brass Cap in Handhole in center of Southern Avenue, +/ ½ mile west of El Mirage Road
42	870343.094 365690.452		NE Corner, Section 27, T1N, R1W	Iron Pipe @ intersection of Dysart Road and Broadway Road
43	870322.182 368282.406	920.486	N¼ Corner, Section 34, T1N, R1W	Iron Pipe in pothole in center of Southern Avenue extended, +/-½ mile west of Dysart Road
44	877149.759 382631.742	958.30798		Set Bridge Spike
45	877519.663 383939.736	960.84802		Set Bridge Spike

Point No.	NAD 27 Horizontal Coordinates	NGVD 29 Elevation	Section Data	Description
46	877541.617 385797.766	961.07898		Set Bridge Spike
3099	878217.510 391659.103	980.52222	E¼ Corner, Section 21, T1N, R1E	Stone in Handhole in center of 91st Avenue, +/-½ mile south of Lower Buckeye Road
5002	872991.170 376091.235	933.22601		Set Rebar
5031	886122.389 386414.474	995.776	NE Corner, Section 18, T1N, R1E	Brass Cap in Handhole @ intersection of 107th Avenue and Buckeye Road
5032	886202.550 396962.956	1003.35101	NE Corner, Section 16, T1N, R1E	Brass Cap in Handhole @ intersection of 91st Avenue and Buckeye Road
5034	875558.136 396941.514	983.31201	NE Corner, Section 28, T1N, R1E	Brass Cap in Handhole @ intersection of 91st Avenue and Broadway Road
5035	875559.011 391696.756	985.22101	NE Corner, Section 29, T1N, R1E	Brass Cap in Handhole @ intersection of 99th Avenue and Broadway Road
5050	871999.307 376106.603	932.718		Set PK Nail in pavement
5051	873761.102 376110.142	935.290		Set PK Nail in pavement
5052	873771.889 381323.577	943.249		Set PK Nail in pavement
5053	872991.170 376091.250	933.118		Set PK Nail in pavement
6053	871801.229 381321.584	939.903		Set PK Nail in pavement
8042	878249.835 389553.449	970.815		Rebar

Point No.	NAD 27 Horizontal Coordinates	NGVD 29 Elevation	Section Data	Description
8043	878471.664 390552.780	974.03003		Rebar
8044	878865.737 391609.352	980.11298		Rebar
8077	880879.712 396795.672	990.815	NE Corner, Section 21, T1N, R1E	Brass Cap in Handhole @ intersection of 91st Avenue and Lower Buckeye Road
8084	880856.682 386431.909	970.842	NE Corner, Section 19, T1N, R1E	Fd. 3/4" Iron Pipe in Pothole @ intersection of 107th Avenue and Lower Buckeye Road
8085	880876.004 391617.927	982.462	NE Corner, Section 20, T1N, R1E	3/4" Iron Bar in Pothole @ intersection of 99th Avenue and Lower Buckeye Road
8086	878216.614 391658.541	980.720	E¼ Corner, Section 20, T1N, R1E	Fd. Stone w/chiseled "X" in pothole (0.60' below pavement) in center of 99th Avenue, +/-½ mile north of Broadway Road
8092	886195.625 391695.858	993.386	NE Corner, Section 17, T1N, R1E	Brass Cap in Handhole (0.60' below rim) @ intersection of 99th Avenue and Buckeye Road
9056	880885.429 394210.557	986.710	N¼ Corner, Section 21, T1N, R1E	2" Brass Cap in Pothole (0.25' below pavement) in center of Lower Buckeye Road, +/-½ mile east of 99th Avenue
9057	880923.414 389010.598	977.554		Set Brass Cap flush w/concrete +/-50' north of centerline of Lower Buckeye Road, +/-½ mile west of 99th Avenue, +/-2.0' south of concrete headwall at concrete lined ditch; stamped "ERM"

ERM Data

Survey Notes

Project Engineering Consultants
Survey Data Collector Code List

ABT	Abutment
BC	Brass Cap
BLD	Building
BM	Bench Mark
BS	Back Site
BTM	Bottom
BW	Back of Walkway
CB	Catch Basin
CIT	Citrus Tree
CL	Center Line
CLD	Concrete Lined Ditch
CMP	Corrugated Metal Pipe
COL	Column
CP	Control Point
CPS	Cotton Picker Spindle
CRN	Crown of Road
CTV	Cable TV
DEL	Delineator
DG	Down Guy Wire
DR	Dirt Road
DW	DriveWay
EB	Electric Box
EC	Edge of Concrete
EM	Electric Meter
EP	Edge of Pavement
FC	Face of Curb
FH	Fire Hydrant
FL	Flow Line
FNC	Fence
FS	Fore Sight
G	Gutter
GAS	Gas Line or Valve
GB	Grade Brake
GRL	Guard Rail
GRT	Grate
HH	Hand Hole
HW	Head Wall
HWM	High Water Mark
ICV	Irrigation Control Valve
INV	Invert
IP	Iron Pipe
IRR	Irrigation Structure
LIP	Lip of Curb
LOW	Low Spot
LP	Light Pole
MES	Mesquite Tree
MH	Man Hole (Sewer, Storm, Tel, Elect)
NAIL	Nail (60-d)
NG	Natural Ground
P	Pavement
PALM	Palm Tree
PC	Point of Curvature
PIER	Pier
PIL	Pillar
PIPE	Pipe
PK	PK Nail
POC	Point on Curve
POL	Point on Line
POST	Post
PP	Power Pole
PT	Point of Tangency
PV	Palo Verde Tree
RB	Rebar
RR	Rail Road
SAG	Saguaro Cactus
SCP	Scupper
SD	Storm Drain (Inlet or Man Hole)
SGN	Sign
SM	Survey Monument
SPW	Spill Way
SS	Side Shot
SW	Side Walk
TB	Top of Bank
TC	Top of Curb (at Back)
TCW	Top of Curb Wing (at Back)
TEL	Telephone Riser, Junction Box
TOE	Toe of Slope
TOP	Top of Slope, Object
TREE	Tree
TRN	Transformer
TRV	Traverse
TSP	Traffic Signal Pole
VG	Valley Gutter
VLT	Vault
WALL	Wall (Masonry, Brick, Concrete)
WELL	Well (Water or Dry)
WM	Water Meter
WNG	Wing Wall
WV	Water Valve

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65120, 872129.03910, 376120.28089, 934.18462,CL
65121, 872228.23420, 376120.45676, 934.17910,CL
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65125, 872631.63229, 376121.31247, 935.03318,CL
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65127, 872834.05443, 376121.95592, 935.42973,CL
65128, 872934.60706, 376121.79420, 935.36773,CL
65129, 873034.66352, 376122.11019, 935.39711,CL
65130, 873134.53503, 376122.40947, 935.46699,CL

STA	P-#	+	-	ELVE	ADJ ELVE
POB	1			993.22	993.220
		3.849			
TP1			8.239	988.830	
		4.045			
TP2			5.505	987.370	
		4.293			
TP3	2		4.795	986.868	986.876
		4.099			
TP4			5.300	985.667	
		4.727			
TP5	3		4.880	985.514	985.523
		4.238			
TP6			4.965	984.787	
		4.476			
TP7	4		5.335	983.928	983.943
		4.465			
TP8			6.146	982.248	
		4.829			
TP9			5.362	981.715	
		3.762			
TP10			7.686	977.791	
		3.311			
TP11			7.167	973.935	
		4.047			

FD - 13c MH & 107th & Buckeye

FD - 3/4" Pipe in PH @ 4th St. & 107th Av.

FD - 3/4" Pipe in PH @ Apache & 107th Av

FD 1" Pipe with nail @ Durango & 107th Av

STA	PI	+	-	ELVE	ADJ ELVE
TP12			6.829	971.153	
		5.113			
TP13	5		5.450	970.816	970.842
		4.455			
TP14			6.445	968.826	
		4.589			
TP15			6.143	967.272	
		5.020			
TP16	6		4.930	967.362	967.387
		5.514			
TP17			5.908	966.969	
		4.945			
TP18			6.127	965.786	
		4.931			
TP19	7 (83)		5.682	965.035	965.059
		3.596			
TP20			5.107	963.525	
		5.721			
TP21			2.636	966.610	
		7.326			
TP22			2.883	971.053	
		6.260			
TP23			4.983	972.330	
		5.807			

(*TP12 Coded as PT5 in Gun. is not PT5)

FD- 3/4" Pipe in PH @ Lower Buckeye & 107th Av

FD- 3/4" Pipe in PH @ Maimi Av & 107th Av

FD- 3/4" Pipe in ℄ of 107th Av ± 2500 N of Brodway on Line with Steel PP Line (E-W)

STA	*	+	-	ELVE	ADJ ELVE
TP24	8		5.003	973.133	973.152
		4.992			
TP25			5.781	972.345	
		4.527			
TP26			6.879	969.993	
		3.451			
TP27			7.462	965.983	
		3.105			
TP28			5.552	963.535	
		4.765			
TP29			3.998	964.302	
		5.490			
TP30	7		4.764	965.028	
		5.904			
TP31			4.385	966.547	
		5.723			
TP32			4.895	967.375	
		5.476			
TP33	6		5.474	967.377	
		5.031			
TP34			5.030	967.379	
		5.862			
TP35			4.430	968.810	
		5.704			

FD- BCHH @ Broadway & 107th Av

*(Note coded TP29 as known PT7 is not PT7)

See Pg# 11 For Rec. (ELVE = 965.035)

See Pg# 11 For Rec. (ELVE = 967.362)
(*Note forgot To code in gun)

STA	PI	+	−	ELVE	ADJ ELVE
TP36	5		3.702	970.812	
		6.542			
TP37			3.733	973.621	
		6.529			
TP38			3.062	977.088	
		6.750			
TP39			2.841	980.997	
		6.003			
TP40			4.855	982.146	
		5.779			
TP41			4.493	983.432	
		5.409			
TP42	4		4.929	983.911	
		5.965			
TP43			4.912	984.963	
		4.826			
TP44	3		4.302	985.488	
		4.817			
TP45			4.097	986.208	
		4.915			
TP46	2		4.280	986.843	
		4.928			
TP47			3.775	987.997	
		4.899			

See Pg#11 for Dec. (ELVE = 970.816)

(*Note TP41 coded as known PT4 is not PT4)

See Pg#10 for Dec. (ELVE = 983.928)

See Pg#10 for Dec. (ELVE = 985.514)

See Pg#10 for Dec. (ELVE = 986.868)

STA	℄	+	−	ELVE	ADJ ELVE
TP48			3.599	989.296	
		7.81			
TP49	1		3.994	993.183	993.220
		END Day (2-14-00)			

See Pg #10 for Dec. (ELVE = 993.220)

STA	+	HI	-	ELEV	
				946.290	946.290
	4.437				
TP 1			5.208		
	4.620				
TP 2			5.192		
	4.650				
TP 3			5.242		
	5.177				
(PT 104) TP 4			1.929		947.603
	1.131				
TP 5			5.529		
	5.472				
TP 6			6.230		
	4.713				
TP 7			5.309		
	4.741				
TP 8			5.593		
	5.214				
TP 9			5.271		
	5.267				
TP 10			4.819		
	5.807				
TP 11			3.525		943.672
		END LEVEL			

15.00

PT # 1 EL = 946.290 @ BROADWAY & 115TH
BRASS CAP IN H.H. (SAME AS SRP # 3)

943.694

TBM +- 2000' S. OF BROADWAY @ SW COR OF S. WALL OVER DRAG. DITCH 30 +- E. &
CHISEL □ TOP OF WALL

√IN @ 115TH & SOUTHERN EL = 943.694
BRASS CAP IN H.H.

LEVEL Loop

STA	+	HI	−	ELEV	Pt #
Pt 202				~~965.47~~ 973.10	202
	3.964				
TP 1			4.258		
	5.619				
TP 2			4.917		
	5.248				
TP 3			4.218		
	6.380				
TP 4			4.890		
	5.646				
TP 5			5.013		
	5.262				
TP 6			7.695	~~966.614~~ 974.228	203
	8.978				
TP 7			6.117		
	5.075				
TP 8			5.218		
	5.055				
TP 9			6.053		
	4.081				
TP 10			6.357		
	10.939				

CON'T NEXT PG

5-00

@ 107TH & ROESER FND BRASS CAP FLUSH
EL = 973.10 (SAME AS SRP Pt #35)

SET CHISEL ☐ IN IRRIG. STR 2600'+-
E OF 107TH ON LOWER DIET RD
S.W. COR OF STR.

Level Loop Cont'

STA	+	HI	-	ELEV
TP 11			5.838	~~978.773~~
	5.288			
TP 12			8.625	
	8.043			
TP 13			5.814	
	4.886			
TP 14			5.635	
	5.226			
TP 15			~~7.742~~ 7.739	~~974.403~~
	7.739	END LEVEL		

6-15-00

@ 99TH END 1/2 PIPE DOWN 0.58 2600'+- N. OF SOUTHERLY RD @ ℄

LEVEL LOOP START NEW JOB

STA	+	HI	-	ELEV	
				~~974.403~~	
	4.780	979.183			
TP 1			5.075	~~974.108~~	
	5.873	979.981			
TP 2			5.638	966.751 ~~974.343~~	204
	5.693				
TP 3			5.497		
	6.228				
TP 4			5.218		
	6.167				
TP 5			5.371		
	5.998				
TP 6			5.767		
	6.823				
TP 7			5.749	~~977.651~~	
	5.527				
TP 8			5.026	970.512	PT # 205
	5.563				
TP 9			4.564		
	5.929				
TP 10			4.458		
	5.723				
TP 11			4.124		
	5.971				

Cont NEXT PG

SEE PG 17 TP-15 EL= 974.403

PT #1 SET CHISEL ☐ IN IRRIG. DITCH 2600' +- W. OF 91ST ON EDGE OF CONC DITCH

FND BRASS CAP FLUSH ON 91ST 300' +- N. OF LAND FILL & 52 E. OF ℄

NOTE: TP 8 NOTE WAS PUT IN AFTER THE SHOT

LEVEL LOOP Cont

STA	+	HI	-	ELEV	PT #
TP 12			4.547		
	6.561				
TP 13			2.671		
	6.786				
TP 14			3.276	983.477	PT #3
	5.165				
TP 15			4.589		
	5.702				
TP 16			4.596		
	5.441				
TP 17			4.577		
	5.607				
TP 18			4.401		
	5.328				
TP 19			5.014		
	4.734				
TP 20			5.421	986.923	3rd I/4
	5.888				
TP 21			3.772		
	2.811				
TP 22			3.275		
	2.459				
TP 23			2.989		
	2.549				

Cont NEXT PG

2-16-00

FND Brass Cap DWN 0.53 IN. H.M. @ E/E 91ST AVE & Broadway

FND BRASS CAP DWN 0.30 12' N. OF ℄ ON BROADWAY 2600'+- W. 91ST AVE

Level Loop Cont

STA	+	HI	-	ELEV	PT #
TP 24			3.116		
	4.264				
TP 25			5.625		
	4.416				
TP 26			5.210	985.395	305 PT #5
	4.399				
TP 27			5.076		
	4.802				
TP 28			4.760		
	3.381				
TP 29			4.665		
	3.413				
TP 30			5.280		
	2.531				
TP 31			3.308		
	3.609				
TP 32			3.673	980.720	306 PT #6
	4.481				
TP 33			5.908		
	5.012				
TP 34			5.578		
	5.639				
TP 35			4.941		
	5.712				

Con't next pg

2.16.00

35=305

FND BRASS CAP DWN 0.25 N. OF & 10'+- @ 99TH AVE & BROADWAY

86=306

FND ROCK W/ CHISEL X DWN 0.60 5' W. & 2600' +- N. OF BROADWAY ON 99TH AVE

(NOTE: PUT CODE IN AFTER THE SHOT)

STA	+	HI	-	ELEV	PT #
TP 36			4.689		
	6.436				
TP 37			4.849		
	4.559				
TP 38			4.157	982.448	~~PT #7~~
	5.932				
TP 39			4.577		
	5.177				
TP 40			4.611		
	5.328				
TP 41			5.055		
	5.704				
TP 42			4.518		
	5.306				
TP 43			4.505		
	5.299				
TP 44			3.790	988.160	~~PT #8~~
	4.344				
TP 45			4.618		
	5.222				
TP 46			4.351		
	5.584				
TP 47			4.757		
	5.904				

Con't NEXT PG

2-16-00

85 = 307

FND 3/4" REBAR DWN 0.50 @ ℄ ℄ 99TH AVE & LOWER BUCKEYE RD

SET CHISEL ☐ 2600' +- N OF LOWER BUCKEYE ON 99TH AVE 23' +- W. OF ℄ ON CONC BRIDGE OVER IRRIG. DITCH THE MOST N. HEADWALL ON ℄

Level Loop cont.

STA	+	HI	-	ELEV	PT #
TP 48			3.948		
	5.157				
TP 49			3.635		
	6.040				
TP 50			5.738	993.386	309 ~~PT#5~~
	5.282				
TP 51			4.556		
	5.627				
TP 52			4.148		
	5.468				
TP 53			3.930		
	5.002				
TP 54			4.584		
	5.906				
TP 55			1.843		
	4.840				
TP 56			4.671	1001.800	✓
		END Level			

3-16-00

(92) = 309

FND BRASS CAP DWN 0.60 @ ℄ ℄ BUCKEYE RD & 99TH AVE

✓IN @ BRASS CAP DWN 0.50 3.5' S. OF ER TRACKS ℄ 9.0' W. OF ℄ ℄ 2600+- N. OF BUCKEYE RD ON 99TH AVE

UNIT	T	Time on	Time off	HE	Epochs
Base #3	GPS 1	10:14		1.964	
~~Base #2~~	~~GPS 2~~	~~10:43~~		~~1.880~~	
Base #2	GPS 2	10:46		1.880	
Rover	30	11:03	11.13	2.037	120
ROVER	31	11:37	11:38		12
ROVER	32	11:49	11:50		12
ROVER	33	12:01	12:02		12
ROVER	34	12:11	12:12		12
ROVER	35	12:19	12:20		12
ROVER	36	12:25	12:26		12
ROVER	37	12:32	12:33		12
ROVER	38	12:41	12:42		12
ROVER	39	12:47	12:48		12
ROVER	40	1:06	1:07		12
ROVER	41	1:14	1:24		120
ROVER	OFF @	1:25			
BASE #3	OFF @	1:31	GPS #1		
BASE #2	OFF @	1:47	GPS #2		

2-18-00

SET REBAR 150 +- N. HIGH TENSION & 30' W. & ON 91ST

FD - BC HM @ Broadway & EL - Marking 0.7 To Surface

FND Brass Cap & & Buckeye & 107TH DWN 1.20

FND Brass Cap & & Buckeye & 91ST DWN 0.70

FND Brass Cap @ Broadway & 83RD 20' W of 83RD & & 5' N. & Broadway

FND Brass Cap & & Broadway & 91ST DWN 0.50

FND Brass Cap @ Broadway & 99TH DWN 0.30

FND Brass Cap @ Broadway & 107TH DWN 0.30

FND Brass Cap @ Broadway & 115TH DWN 0.40

FND 3/4" Pipe 1/2 +- mile S. of Broadway on 99TH ST

FND Brass Cap @ Southern & 99TH DWN 0.40

FND Brass Cap 1/2 +- mile S. of Broadway on 91ST

FND Brass Cap 1 +- mile S. of Broadway on 91ST

DWN 1.20

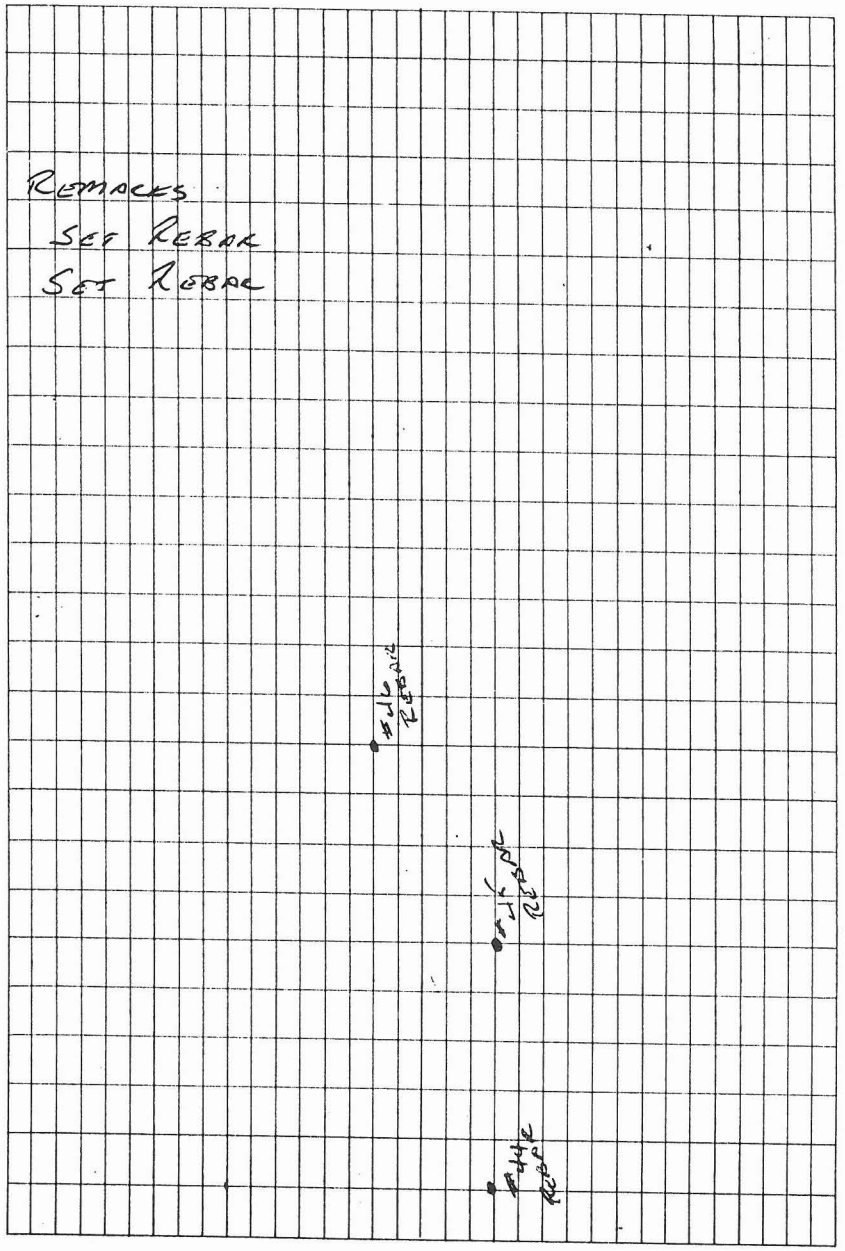
TP #45
BS #44

HI = 4.95 HR = 4.92

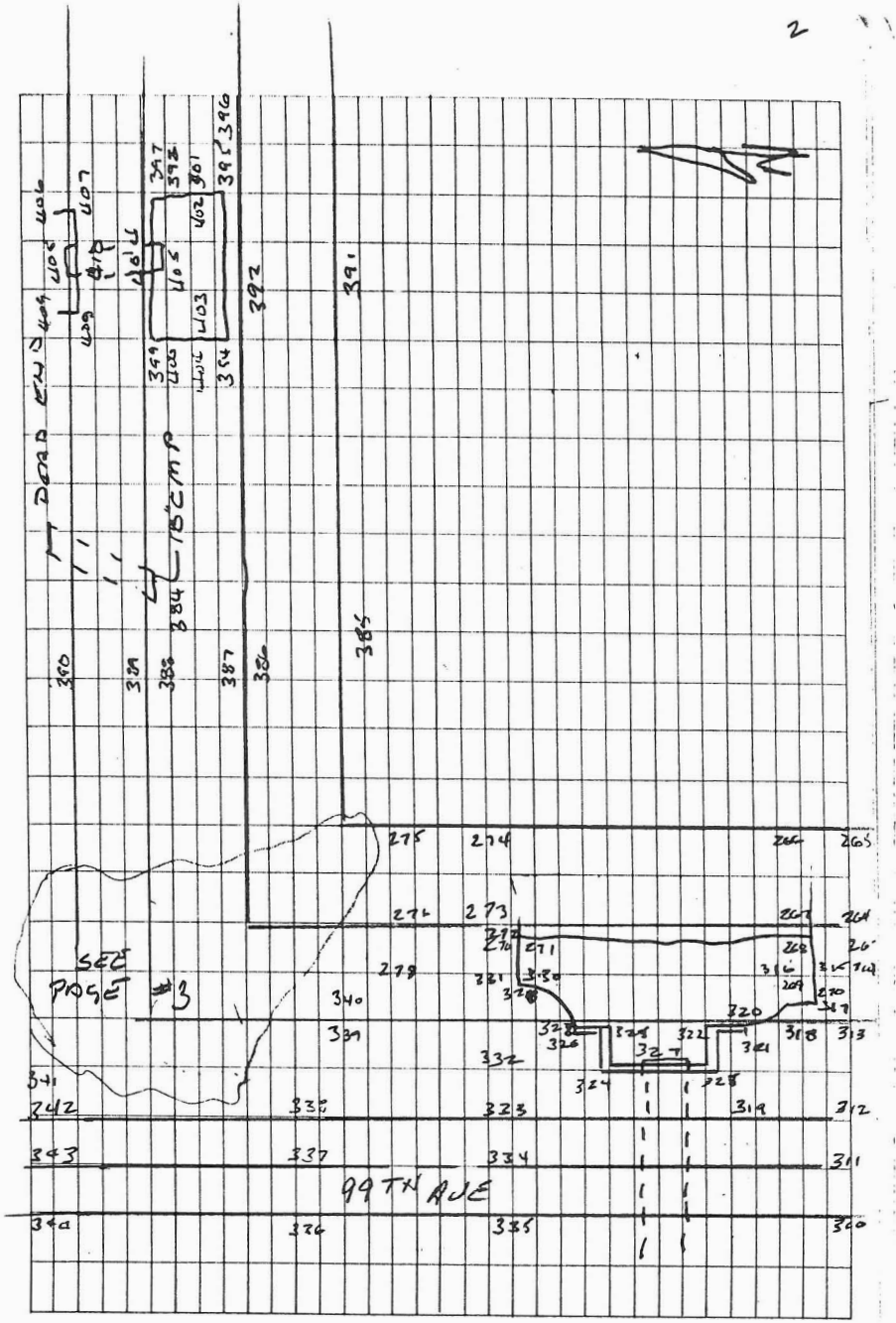
STA#	Horz ∠	Vert ∠	Slope Dist	Hor Dist
44	0-00-00	90-18-52	1127.923	1127.906
46	188-32-50	90-14-58	541.520	541.515
47	194-38-14	90-04-07	1094.509	1094.508

STA#	HR	Desc
20310	8.47	ED RC
-11		⌀ RC
12		ED RC
13		TB
14		TOE
15		TOE
16		TOE Conc
17		TOP Conc
18		TB
19		ED RC
20320		TOP Conc
21		Head Wall
22		"
23		"
24		"
20325	8.47	"

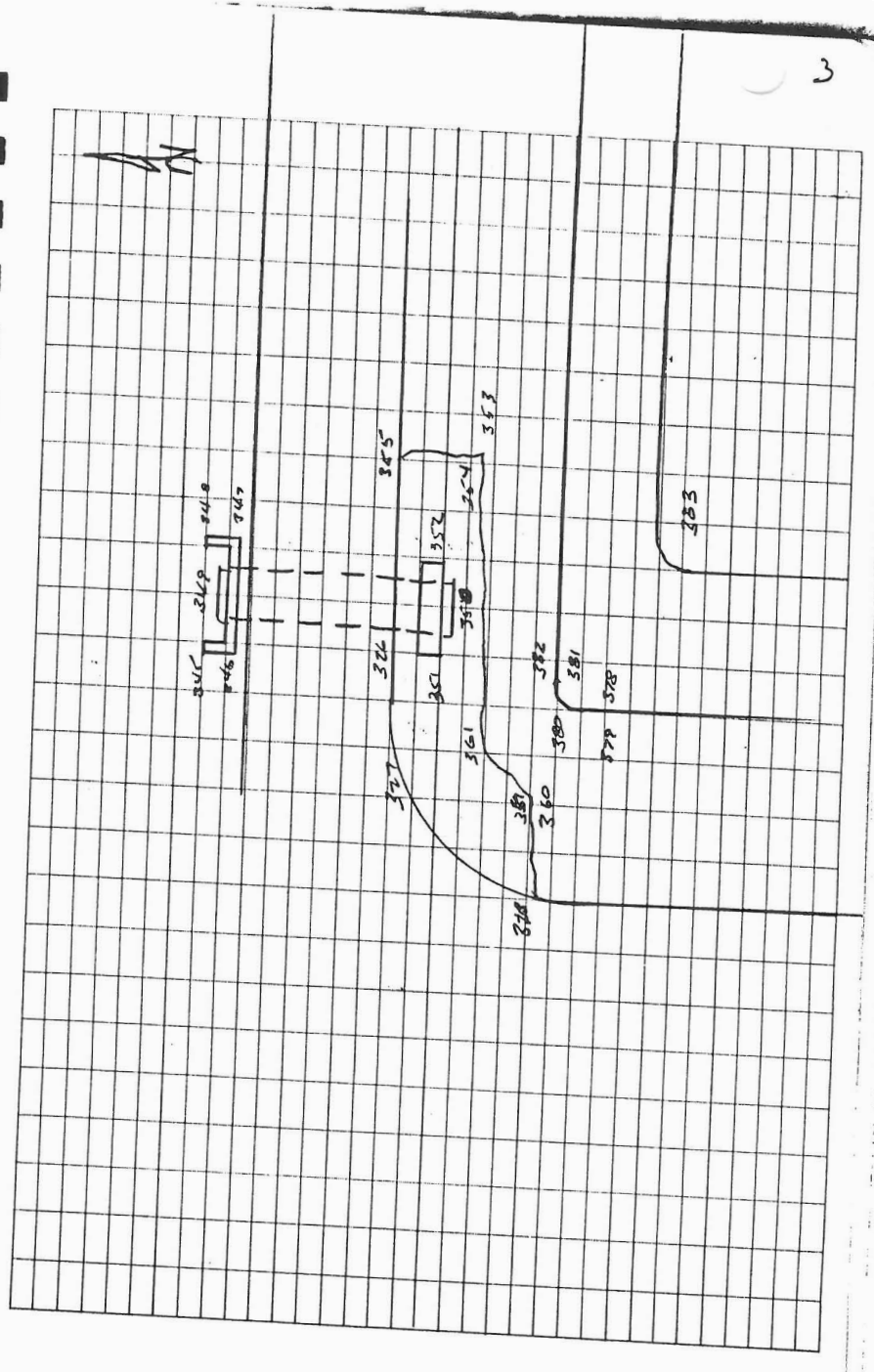
Remarks
Set Rebar
Set Rebar



STA	HR	DESC
20326	8.47	HEAD WALL
27		INV 48" RCP
28		TOP CONC
29		" "
30		TOE CONC
31		TOE
32		TB
33		ED RC
34		℄ Rd
35		ED Rd
36		" "
37		℄ Rd
38		ED Rd
39		TB
40		TOE
41		NG
42		ED RC
43		℄ RC
44		ED RC
45		HEAD WALL
46		"
47		"
48		"
49		INV 18" RCP
20350	9.47	" " "

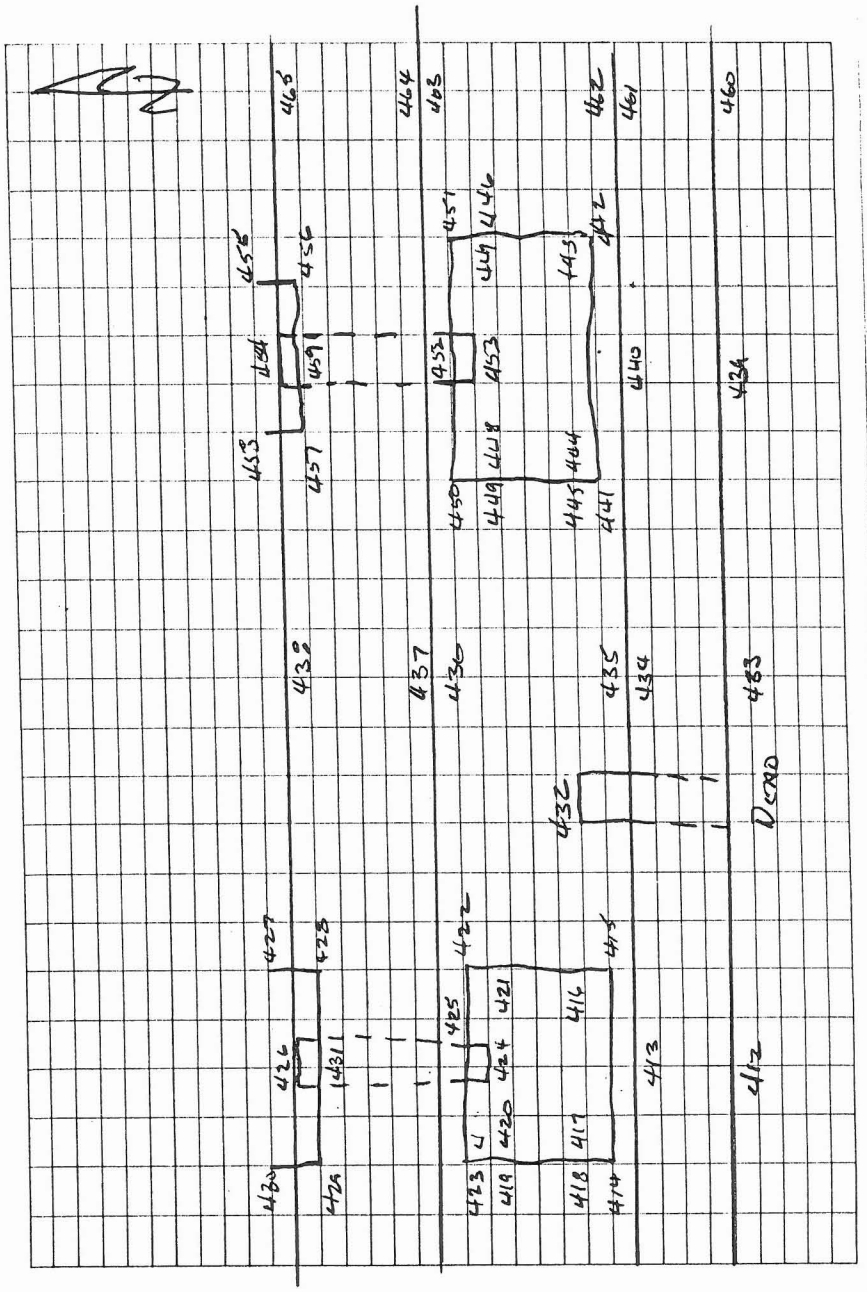


Sta	Hor	Desc
20351	8.47	Noise Wall
52		" "
53		TOE
54		TOE Conc
55		Top Conc
56		" "
57		" "
58		" "
59		TOE Conc
60		TOE
61		TOE Conc
62		TOE
63		TB
64		NG
65		NG
66		TB
67		Top Conc
68		TOE Conc
69		TOE
70		TOE
71		TOE Conc
72		Top Conc
73		TB
74		NG
20375	B 47	NG

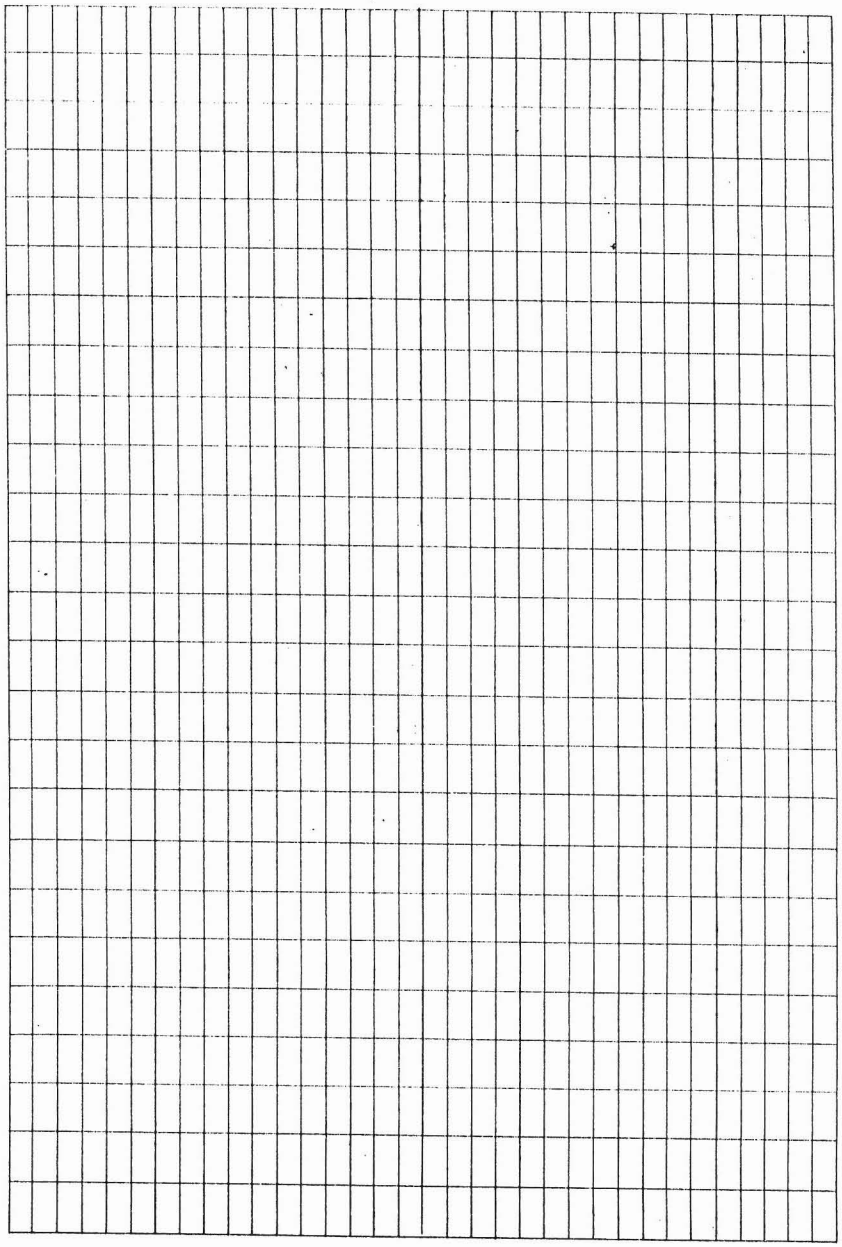


STA#	NR	DESC
20376	8.47	TB
77		TOE
78		TB
79		TOE
80		TOE
81		TB
82	8.47	TOE
20383	0.26	NG
84	8.47	INV 18" CMP
85		NG
86		TB
87		TOE
88		TOE
3 89		TB
20390	8.47	NG

END SET UP

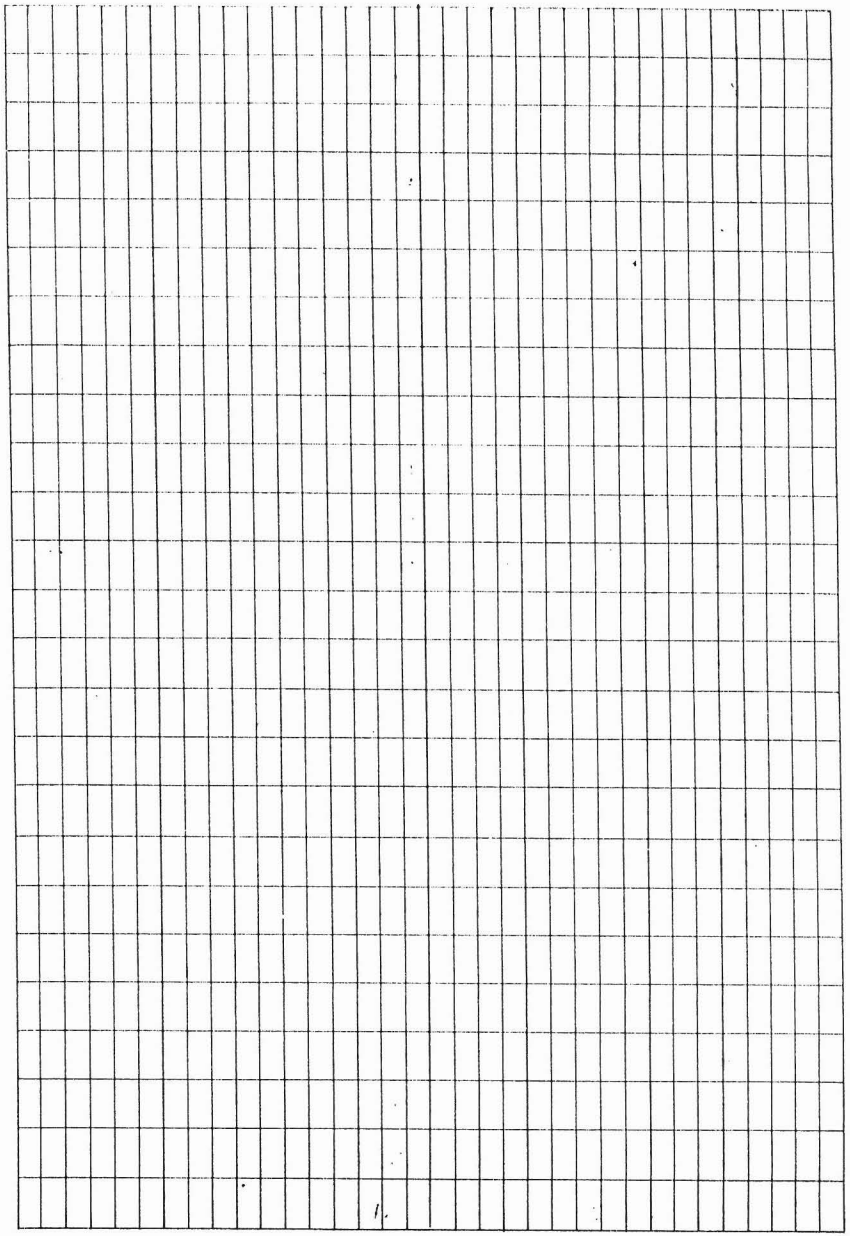


STA	HC	DESC		
TC 47				
BS 46	8.47			
20391	8.47	NG		
92		TB		
93		TOP CONC		
94		" "		
95		TOE CONC		
96		" "		
97		TOE		
98		TOE		
99		TOE CONC		
20400		" "		
1		TOE		
2		TOP CONC		
3		" "		
4		TB		
5		INV 24" RCP		
6		"		
7		HEAD WALL		
8		" "		
9		" "		
10		" "		
11		NG		
20412	8.47	"		



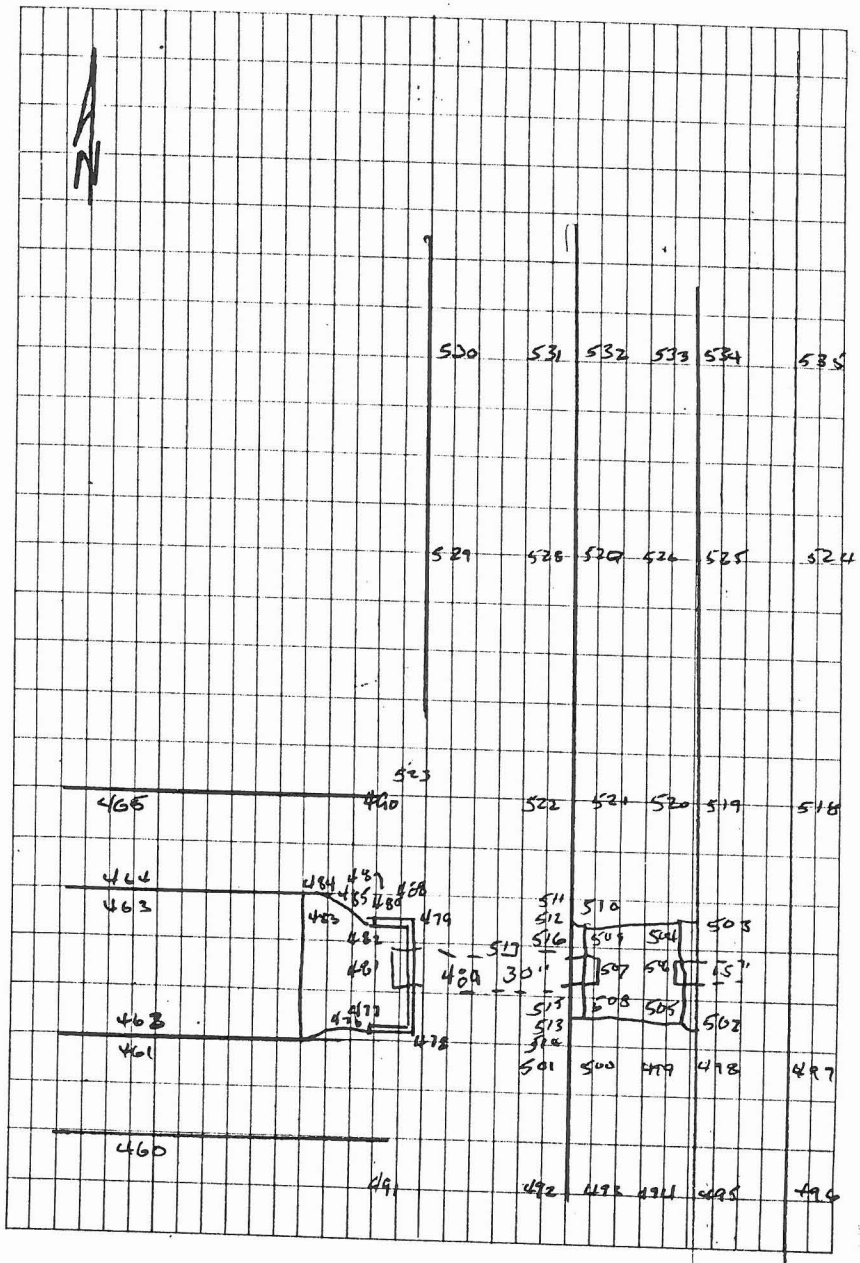
STA#	HR	Desc
20413	8.47	TB
14		TOP CONC
15		" "
16		TOE CONC
17		" "
18		"
19		"
20		" "
21		" "
22		TOP CONC
23		" "
24		TB
25		INV 24" RCP
26		" " "
27		INLAD WALL
28		" "
29		" "
30		" "
31		HG
32		INV 18" RCP DEAD
33		HG
34		TB
35		TOE
36		TOE
37	8.49	TB
38		HG

END SET UP

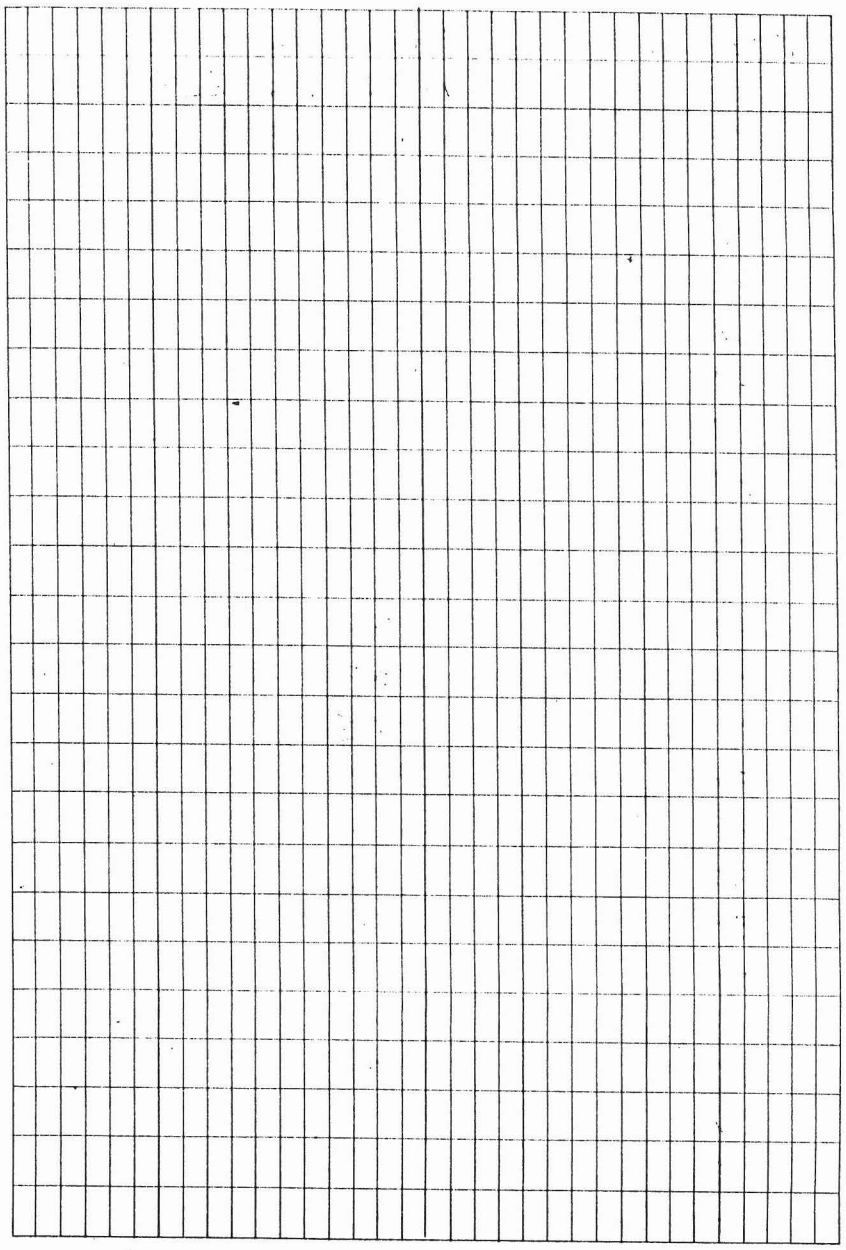


Sta	Ht	Desc
NC 48	4.98	
" 47	8.47	
20439	8.47	NG
40		TB
41		TOP CONC
42		" "
43		TOE "
44		" "
45		"
46		"
47		" "
48		" "
49		"
50		TOP CONC
51		" "
52		TB
53		IND 24" RCP
54		" " "
55		HEAD WALL
56		" "
57		" "
58		" "
59		NG
20460	8.47	NG

204.61	8.47	TB		
62		TOE		
63		"		
64		TB		
66	8.47	HG		
	END	SET. UP		
TP 49	5.07			
BS 48	8.47			
204.66	8.47	HG		
67		TB		
68		TB		
69		TOP CONC		
70		" "		
71		" "		
72		" "		
73		" "		
74		TOE		
75		TOE CONC		
76		" "		
77		HEAD WALL		
78		"	"	
79		"	"	

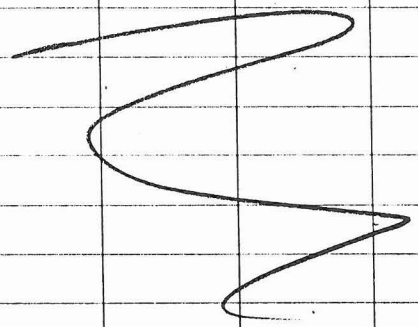


STA	NR	DESC
20+80	8.47	HEAD WALL
81		INV 48" RCP
82		TOE CONC
83		" "
84		TOP CONC
85		" "
86		" "
87		TB
88		TB
89		NG
90		NG
91		NG
92		TB
93		TOE
94		TOE
95		TB
96		NG
97		NG
98		TB
99		TOE
20+00		"
1		TB
2		TOP CONC
3		" "
4	3.47	TOE CONC



STA	HC	DESC
20505	8.47	TOE CONC
6		INU 18" RCP DEAD
7		INU 48" RCP
8		TOE CONC
9		" "
10		"
11		TOP CONC.
12		" "
13		" "
14		" "
15		HEAD WALL
16		" "
17		NG
18		NG
19		TB
20		TOE
21		"
22		TB
23		NG
24		"
25		TB
26		TOE
27		"
28		TB
29	8.47	NG

Sta.	HR	DESC		
20530	8.47	NS		
31		TB		
32		TOE		
33		TOE		
34		TB		
20535	8.47	NS		
	END	SET	UP	



$T = R \tan \frac{1}{2} I$

$T = \frac{50 \tan \frac{1}{2} I}{\text{Sin. } \frac{1}{2} D}$

$\text{Sin. } \frac{1}{2} D = \frac{50}{R}$

$\text{Sin. } \frac{1}{2} D = \frac{50 \tan \frac{1}{2} I}{T}$

$R = T \cot \frac{1}{2} I$

$R = \frac{50}{\text{Sin. } \frac{1}{2} D}$

$E = R \text{ ex. sec } \frac{1}{2} I$

$E = T \tan \frac{1}{4} I$

$\text{Chord def.} = \frac{\text{chord}^2}{R}$

$\text{No. chords} = \frac{I}{D}$

$\text{Tan. def.} = \frac{1}{2} \text{ chord def.}$

The square of any distance, divided by twice the radius, will equal the distance from tangent to curve, very nearly.

To find angle for a given distance and deflection.

Rule 1. Multiply the given distance by .01745 (def. for 1° for 1 ft.) and divide given deflection by the product.

Rule 2. Multiply given deflection by 57.3, and divide the product by the given distance.

To find deflection for a given angle and distance. Multiply the angle by .01745, and the product by the distance.

GENERAL DATA

Right Angle Triangles. Square the altitude, divide by twice the base. Add quotient to base for hypotenuse.

Given Base 100, Alt. $10.10^2 \div 200 = .5$. $100 + .5 = 100.5$ hyp.

Given Hyp. 100, Alt. $25.25^2 \div 200 = 3.125$. $100 - 3.125 = 96.875$=Base.

Error in first example, .002; in last, .045.

To find Tons of Rail in one mile of track: multiply weight per yard by 11, and divide by 7.

Leveling. The correction for curvature and refraction, in feet and decimals of feet is equal to $0.574\ d^2$, where d is the distance in miles. The correction for curvature alone is closely, $\frac{2}{3} d^2$. The combined correction is negative.

Probable Error. If d_1, d_2, d_3, etc. are the discrepancies of various results from the mean, and if Σd^2=the sum of the squares of these differences and n=the number of observations, then the probable error of the mean=

$$\pm 0.6745 \sqrt{\frac{\Sigma d^2}{n(n-1)}}$$

MINUTES IN DECIMALS OF A DEGREE

1′	.0167	11′	.1833	21′	.3500	31′	.5167	41′	.6833	51′	.8500
2	.0333	12	.2000	22	.3667	32	.5333	42	.7000	52	.8667
3	.0500	13	.2167	23	.3833	33	.5500	43	.7167	53	.8833
4	.0667	14	.2333	24	.4000	34	.5667	44	.7333	54	.9000
5	.0833	15	.2500	25	.4167	35	.5833	45	.7500	55	.9167
6	.1000	16	.2667	26	.4333	36	.6000	46	.7667	56	.9333
7	.1167	17	.2833	27	.4500	37	.6167	47	.7833	57	.9500
8	.1333	18	.3000	28	.4667	38	.6333	48	.8000	58	.9667
9	.1500	19	.3167	29	.4833	39	.6500	49	.8167	59	.9833
10	.1667	20	.3333	30	.5000	40	.6667	50	.8333	60	1.0000

INCHES IN DECIMALS OF A FOOT

1/16	3/32	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8
.0052	.0078	.0104	.0156	.0208	.0260	.0313	.0417	.0521	.0625	.0729

1	2	3	4	5	6	7	8	9	10	11
.0833	.1667	.2500	.3333	.4167	.5000	.5833	.6667	.7500	.8333	.9167

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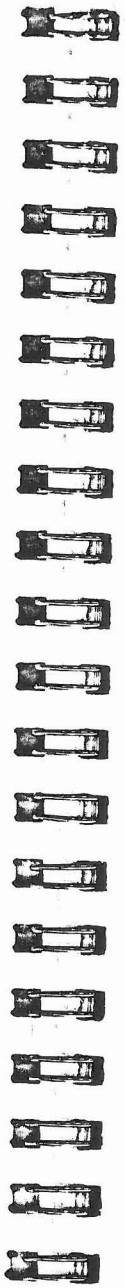

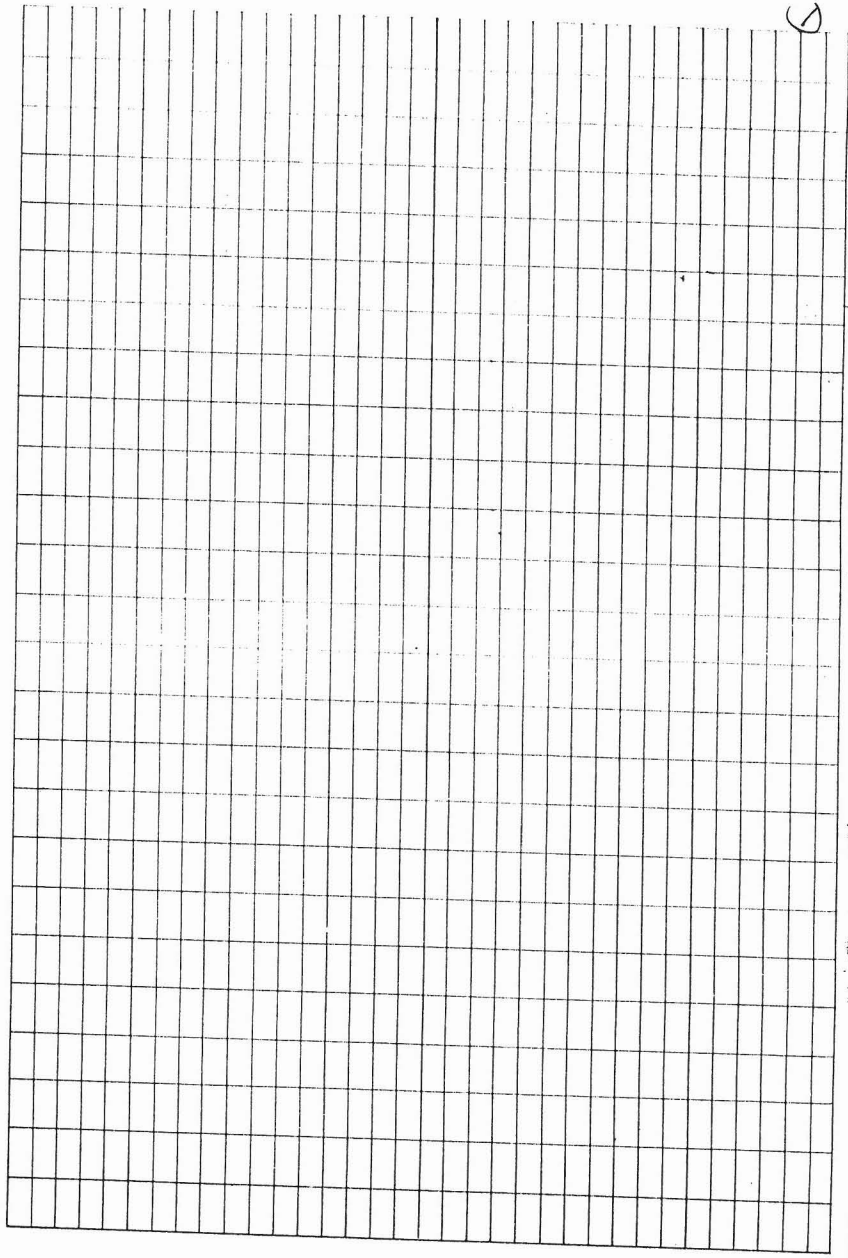

GPS FOR DURANGO ADMP

UNIT #3 @ #1 HI - 1.915 START 7:33 OFF 10:07

UNIT #2 @ #2 HI - 1.975 START 8:11 OFF 9:49

PT #	INSTRU.	HI	TIME ON	TIME OFF	EPOCHS
50	ROVER	2.040	8:33	8:43	120
51	ROVER	2.040	8:48	8:49	12
52			8:57	8:58	
53			9:03	9:04	
54			9:10	9:11	
55			9:19	9:20	

DEAD BATTERY ON ROVER

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2-21-00

(2)

SET PK @ E.P. ON EL MIRAGE

" " " "

SET PK @ EP ON 115TH AVE

" " " "

GPS DURANGO ADMP

SESSION "C"

UNIT # 3 @ GPS #1 HI = 1.793 START 7:05 OFF 10:07

UNIT # 2 @ GPS #2 HI = 1.914 START 7:47 OFF 9:46

PT #	INSTRU.	HT	TIME ON	TIME OFF	EPOCHS
# 50	ROVER	2.037	8:01	8:11	120
# 51			8:15	8:16	12
# 52			8:26	8:27	
# 53			8:30	8:31	
# 54			8:38	8:39	
# 55			8:42	8:43	
# 56			8:52	8:53	
# 57			8:56	8:57	
# 58			9:04	9:05	
# 59			9:09	9:10	

DEAD BATTERY ON ROVER

1795

00-22-20

GB
KS

NOTE: ALL PK's ARE ON W. SIDE OF STREET

SET PK @ EP ON EL MIRAGE 800'+- S. OF DITCH

SET PK @ EP ON EL MIRAGE 800'+- N. OF DITCH

SET PK @ EP ON 115TH AVE 800'+- N. OF DITCH

SET PK @ EP ON 115TH AVE 800'+- S. OF DITCH

SET PK @ EP ON 107TH AV 800'+- N. OF DITCH

" " " " S. OF DITCH

SET PK @ EP ON 99TH AVE 800' N. OF DITCH

" " " " " S. OF DITCH

SET PK @ EP ON 91ST AVE 800'+- N. OF DITCH

" " " " " S. OF DITCH

53'
5.9

CONTROL FOR EL MIRAGE RD

	π @ # 70	BS # 71	W/00-00-00 ∡ RT		
	∡	HD			
FS # 72	178-13-33	1343.24			

ALSO SEE DATA COLL.

GB 24

2-24-00

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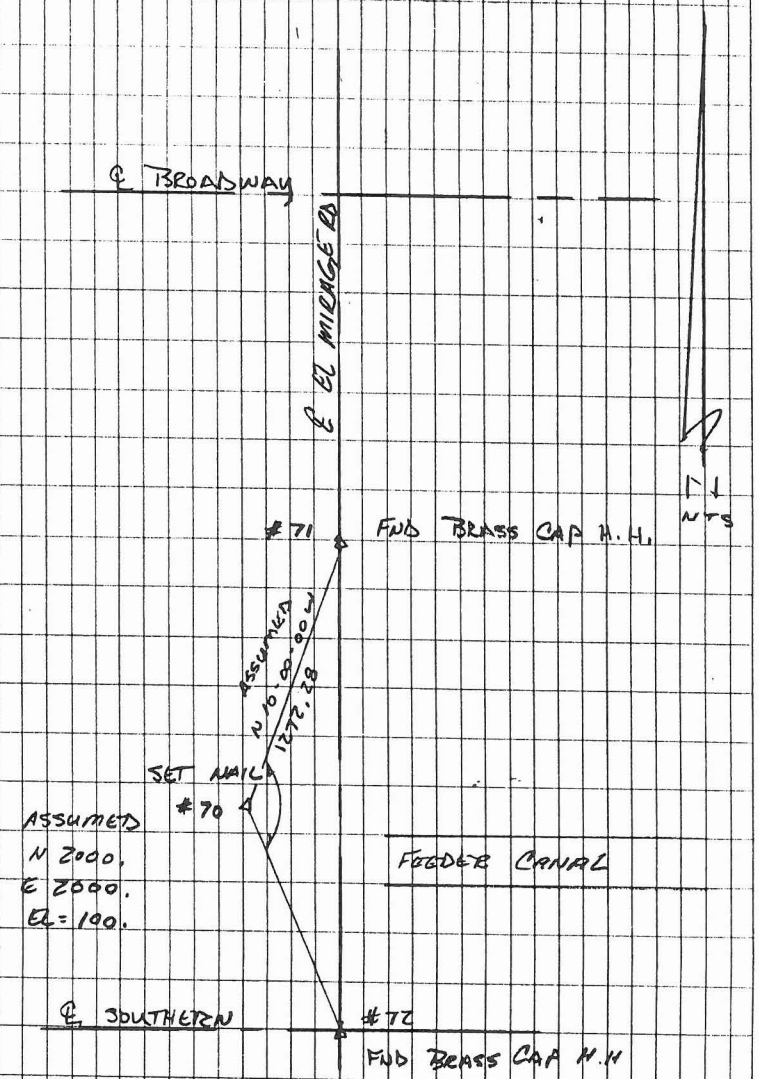
10



℄ PROFIL ℄ MIRAGE RD

FILE NAME MIRAGE-1

TA @ # 70 BS # 71 w/00-00-00 ⅄RT

PT #	HI	HR	DESC
100	5.31	4.80	℄
101			
102			
103			
104			
105			
106			
107			
108			
109			
110			
111			
112			
113			
114			
115			

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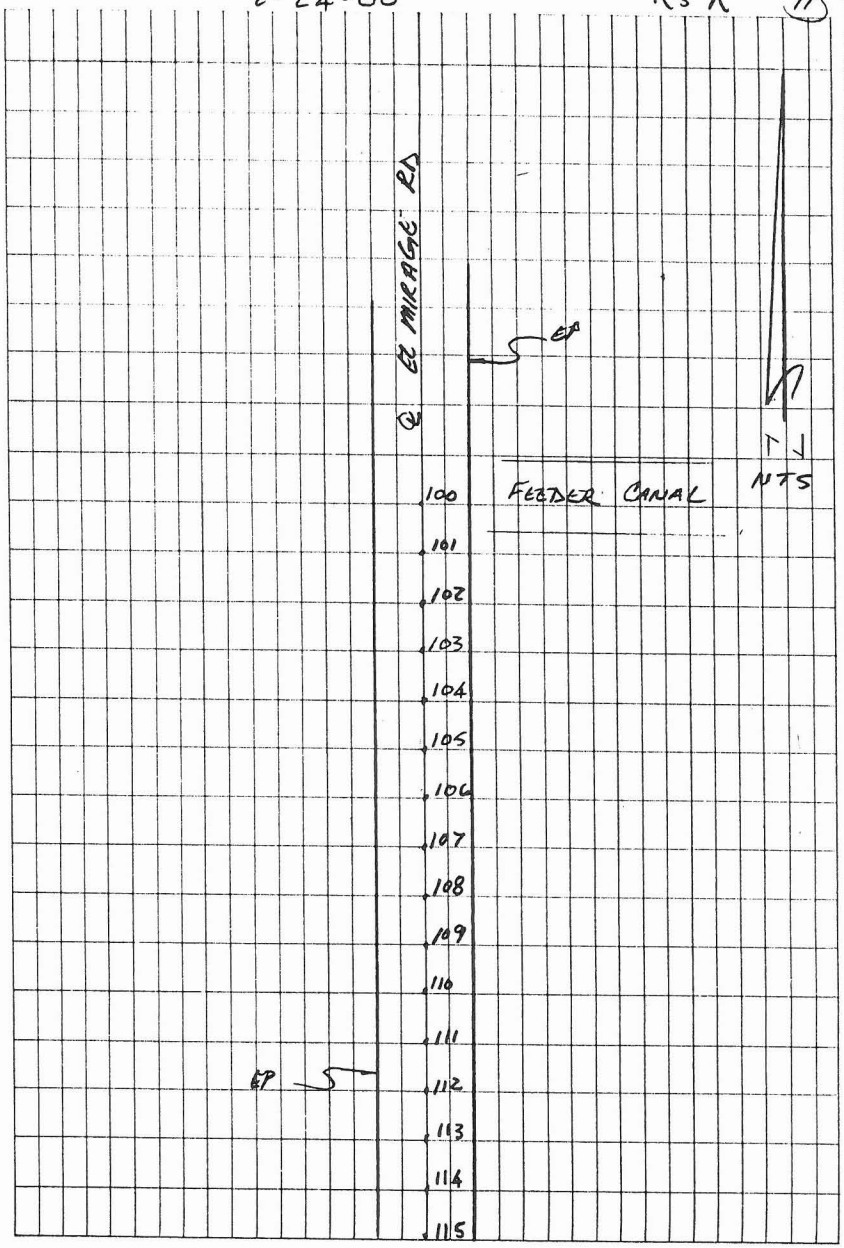

℄ PROFILE EL MIRAGE RD

FILE NAME MIRAGE-1

⊼ @ # 70 BS # 71 w/00-00-00 ∡ RT

PT #	HI	HR	DESC
116	5.31	4.80	℄
117	↓	↓	↓
118			
119			
120			
121			
122			
123			
124			
125			
126			
127			
128			
129			
130			

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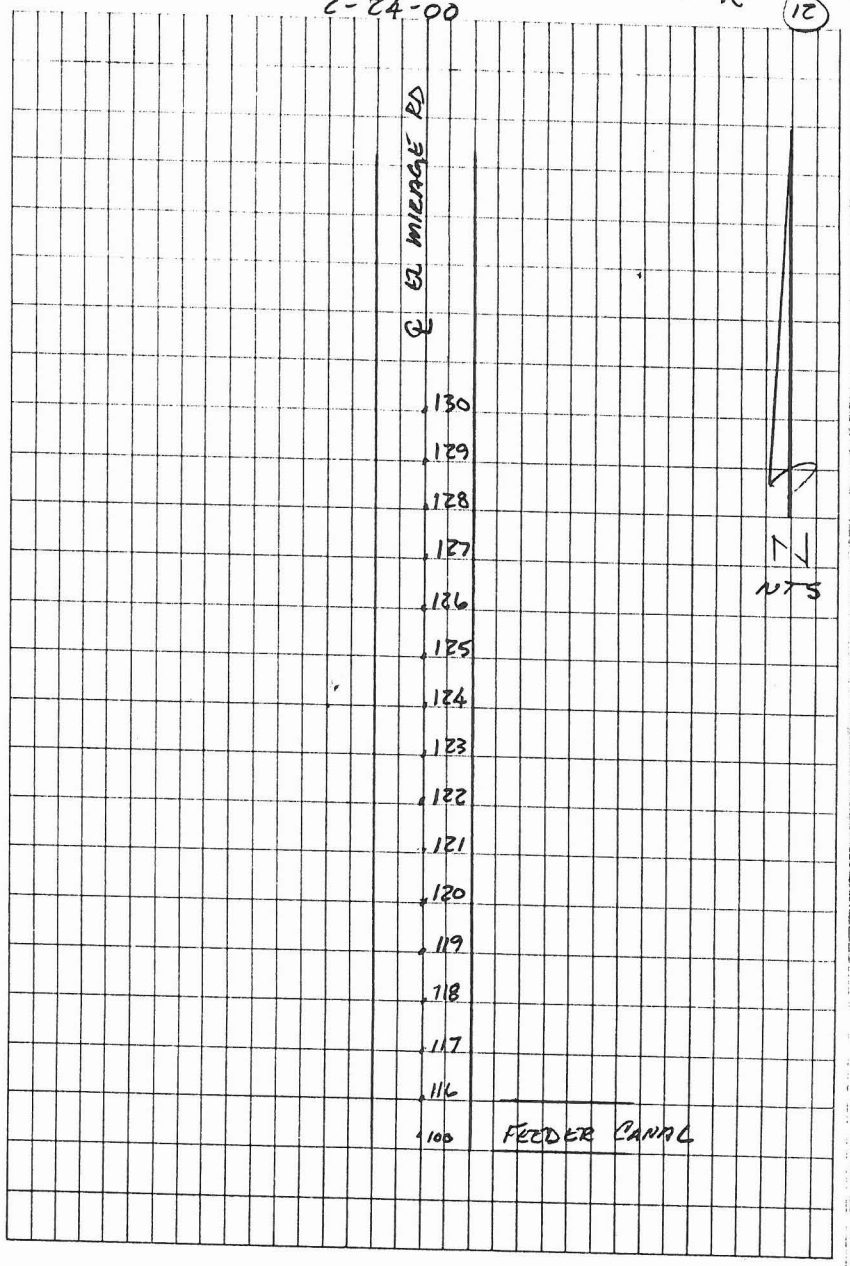
2-24-00

(12)



CONTROL FOR 115TH AVE

⊼@ #74 BS #73 W/00-00-00 ∡RT	∡		HD		
FS #75	177-43-47		1287.04		

ALSO SEE DATA COLL.

5.95

℄ PROFILE 115TH AVE

FILE NAME 115TH-1

⊼ @ # 74 BS # 73 w/00-00-00 ∡ RT

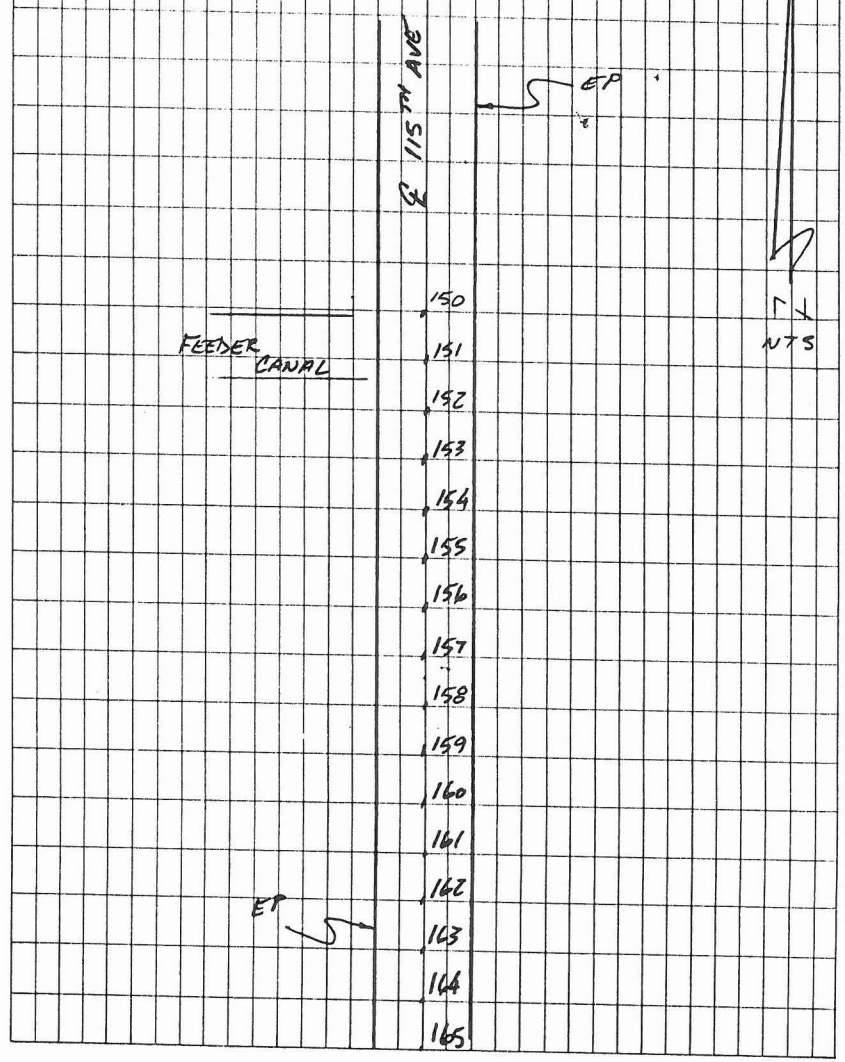
PT #	HI	HR	DESC
150	5.47	4.80	℄
151			
152			
153			
154			
155			
156			
157			
158			
159			
160			
161			
162			
163			
164			
165			

GB [illegible]

2-24-00

KS ⊼

(14)



℄ PROFILE 115TH AVG

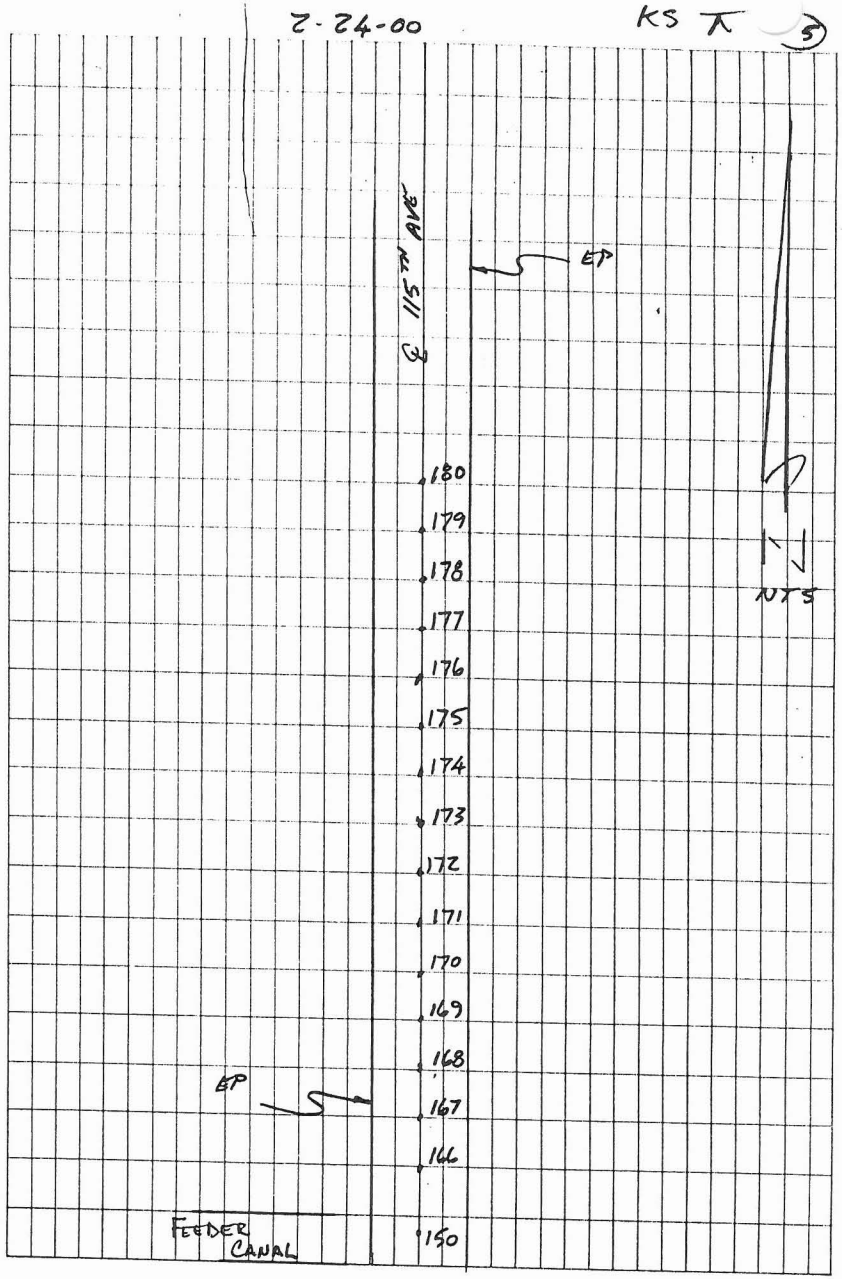
FILE NAME 115TH-1

T @ # 74 BS # 73 W/00-00-00 ∠RT

PT #	HI	HE	DESC
166	5.47	4.80	℄
167			
168			
169			
170			
171			
172			
173			
174			
175			
176			
177			
178			
179			
180			

2-24-00

KS T (5)



CONTROL & ℄ PROFILE FOR 107TH AVE

FILE NAME 107TH_1

⊼ @ # 39 BS # 40 w/00-00-00 ∡RT

PT #	HI	HR	DESC
200	5.13	4.80	℄
201			
202			
203			
204			
205			
206			
207			
208			
209			
210			
211			
212			
213			
214			
215			

102.33

2-24-00

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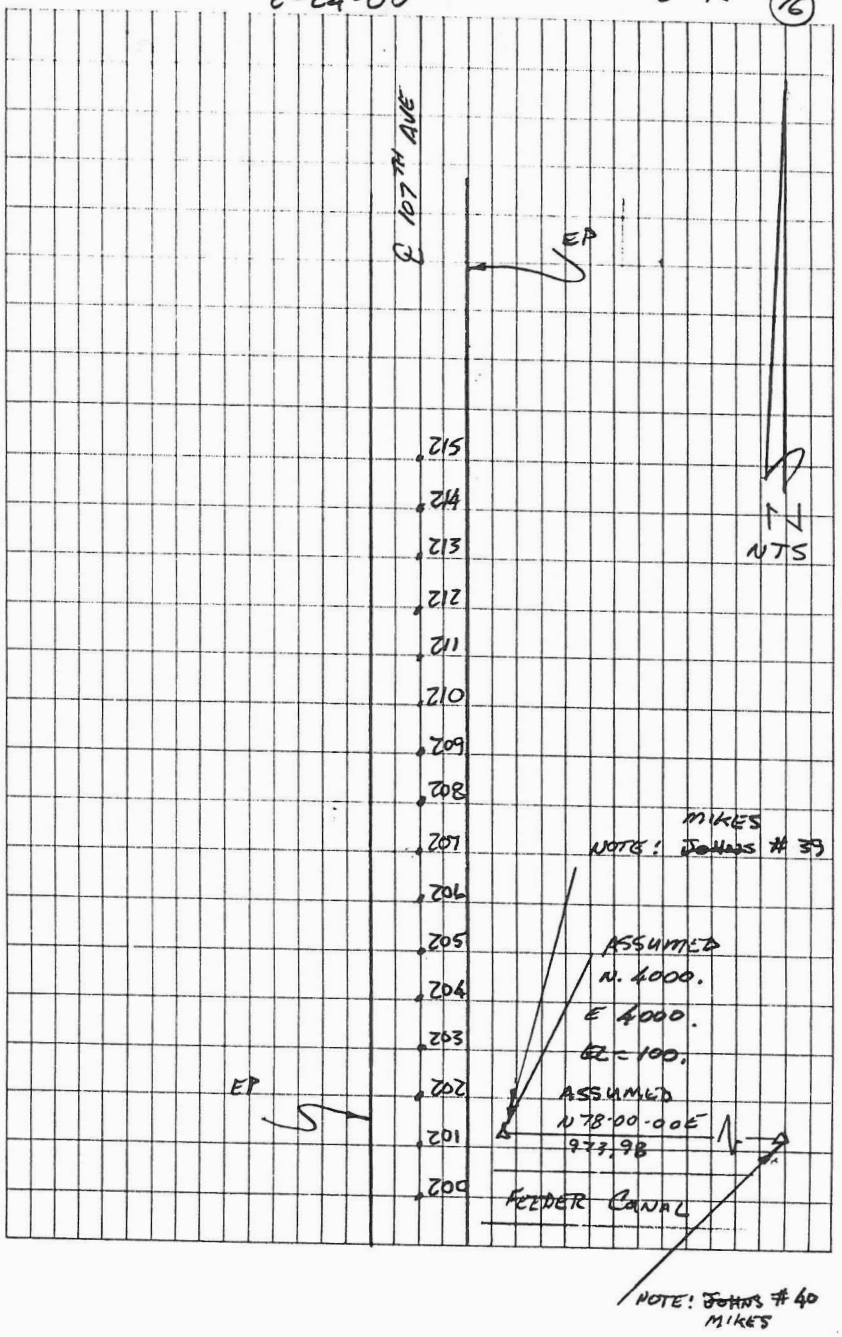
(16)



℄ PROFILE 107TH AVE

FILE NAME 107TH-1

℄ @ # 39 BS # 41 w/00-00-00 ℄ ET

PT #	HI	HR	DESC
216	5.13	4.80	℄
217			
218			
219			
220			
221			
222			
223			
224			
225			
226			
227			
228			
229			
230			

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2-24-00

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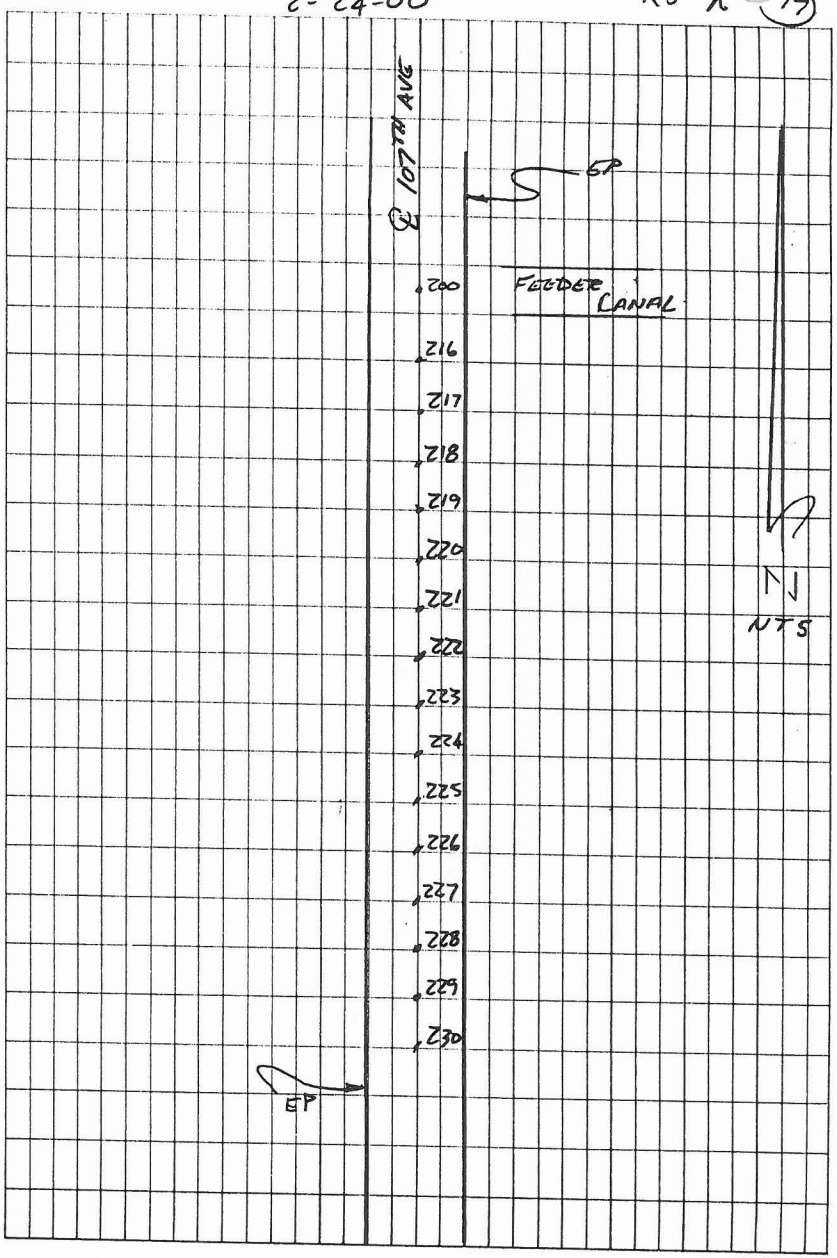
17



93.87

CONTROL & E PROFILE 99TH AVE

FILE NAME 99TH_1

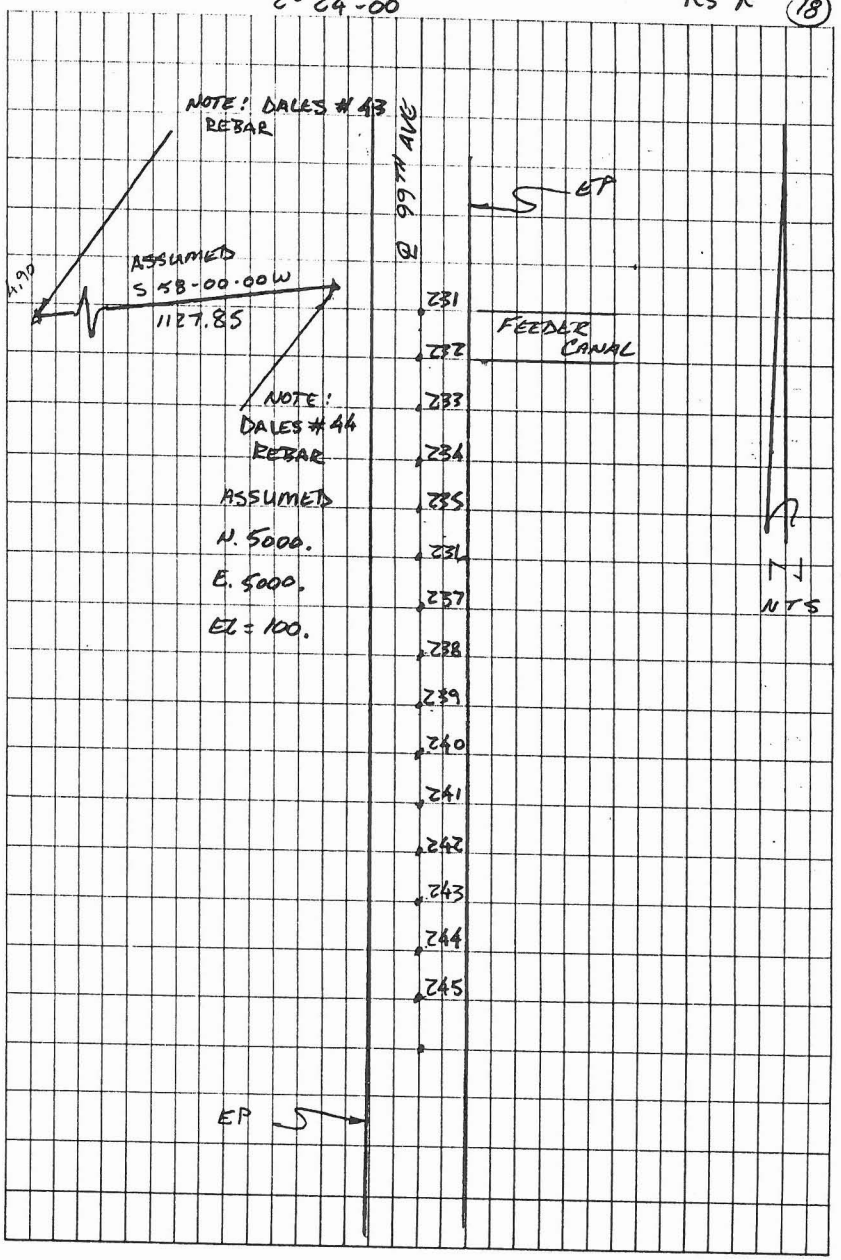
T @ # 44 BS # 43 w/00-00-00 & RT

PT #	HI	HR	DESC
231	5.10	4.80	℄
232			
233			
234			
235			
236			
237			
238			
239			
240			
241			
242			
243			
244			
245			

2-24-00

KS

18



℄ PROFILE 99TH AVE

FILE NAME 99TH_1

℄ @ # 44 BS # 43 W/00-00-00 ∠ RT

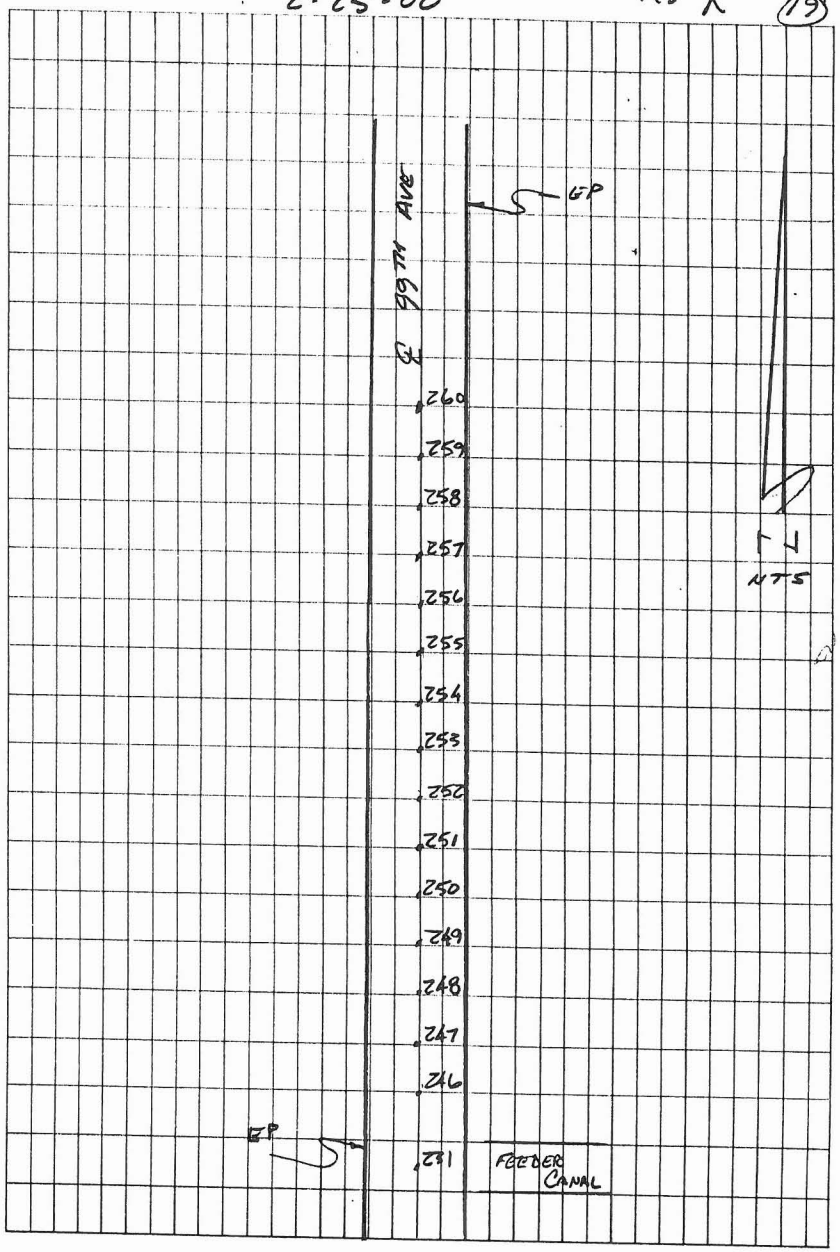
PT #	HI	HR	DESC
246	5.10	4.80	℄
~~246~~ 247			
248			
249			
250			
251			
252			
253			
254			
255			
256			
257			
258			
259			
260			

GB #4

KS 1

2-25-00

(19)



CONTROL FOR 91ST AVE
FILE NAME 91ST-1

⊼ @ # 76 BS # 77 w/00-00-00 ∡RT

	∡		HD		
FS# 78	178-55-38		1334.53		

ALSO SEE DATA COLL.

5.01⊼
100.601
2-25-00
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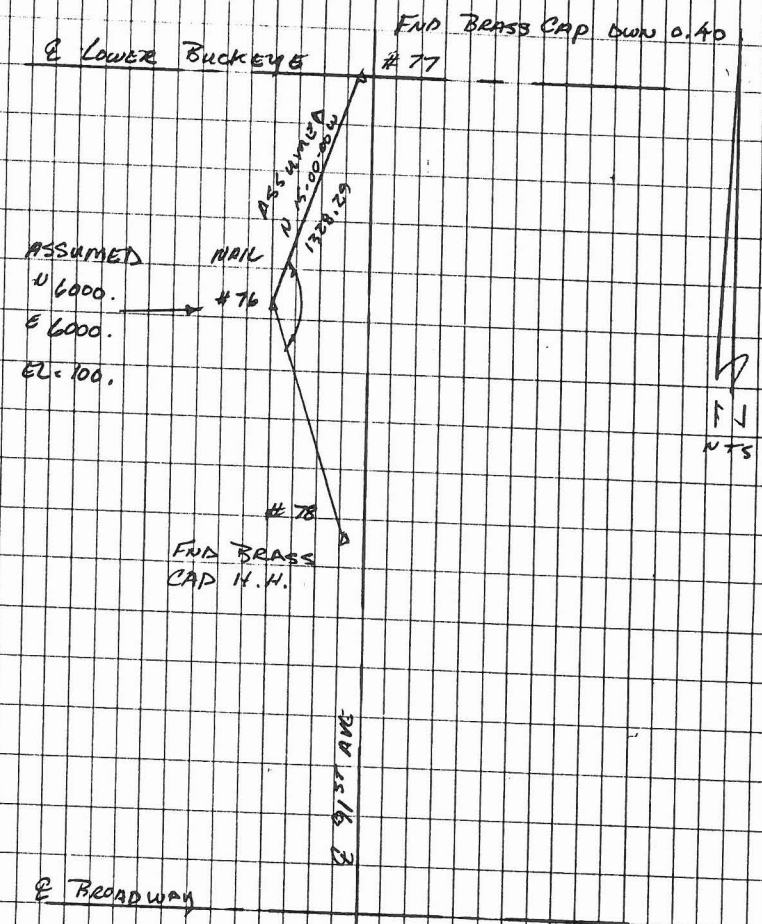
KS ⊼
(20)



℄ PROFIL 91ST AVE

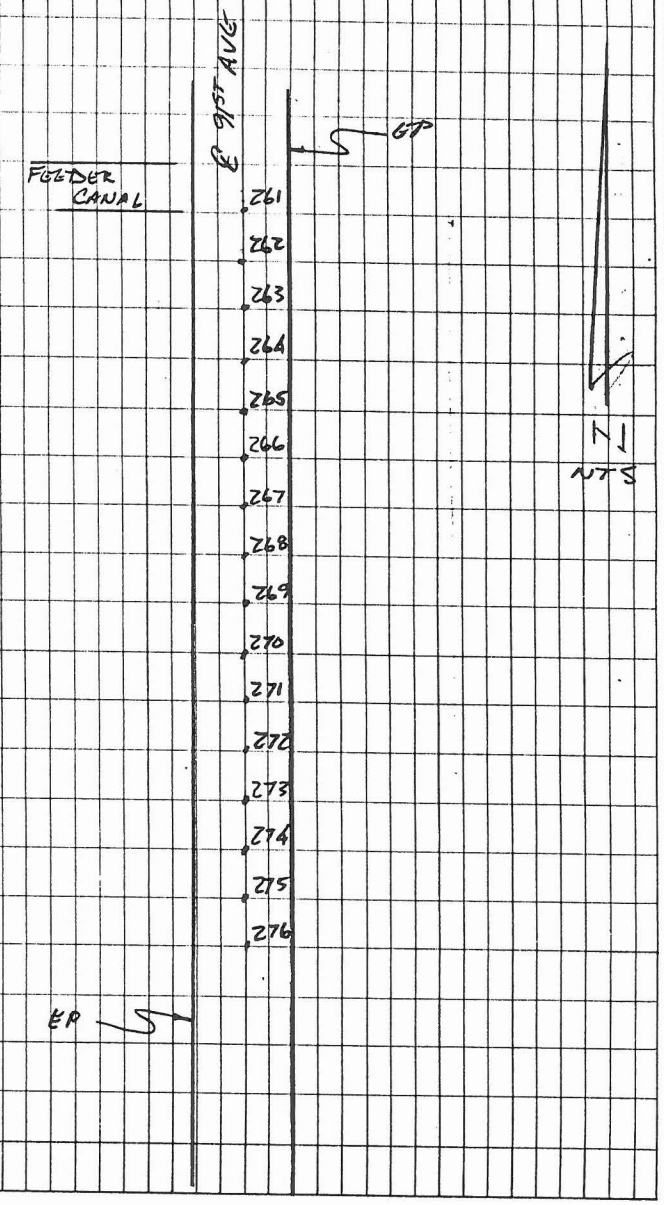
FILE NAME 91ST-1

⊼ @ # 76 BS # 77 w/00-00-00 ∡ RT

PT #	HI	HR	DESC
261	5.01	4.80	℄
262			
263			
264			
265			
266			
267			
268			
269			
270			
271			
272			
273			
274			
275			
276			

2-25-00

KS 7 (21)



℄ PROFIL 91ST AVE

FILE NAME 91ST-1

T @ #76 BS #77 w/00-00-00 ∠ RT

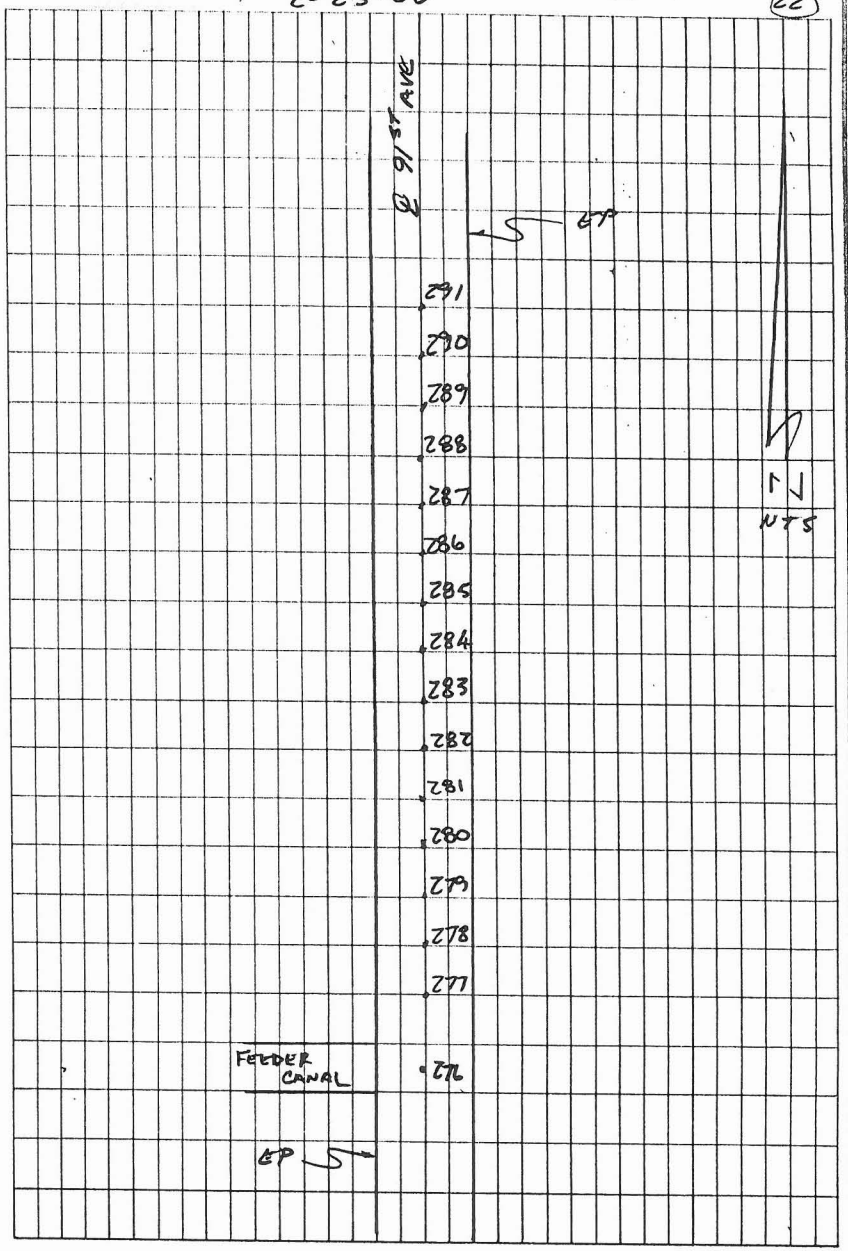
PT #	HI	HR	DESC
277	5.01	4.80	℄
278			
279			
280			
281			
282			
283			
284			
285			
286			
287			
288			
289			
290			
291			

GB 27 ℄

KS T

2-25-00

(22)



π 5 13
φ 5.84

CONTROL FOR DYSART RD

FILE NAME DYSART-1

π @ # 79 BS # 81 w/ 00-00-00 ∡ RT

	∡		HD =		
FS # 82	181-31-13		1264.50		

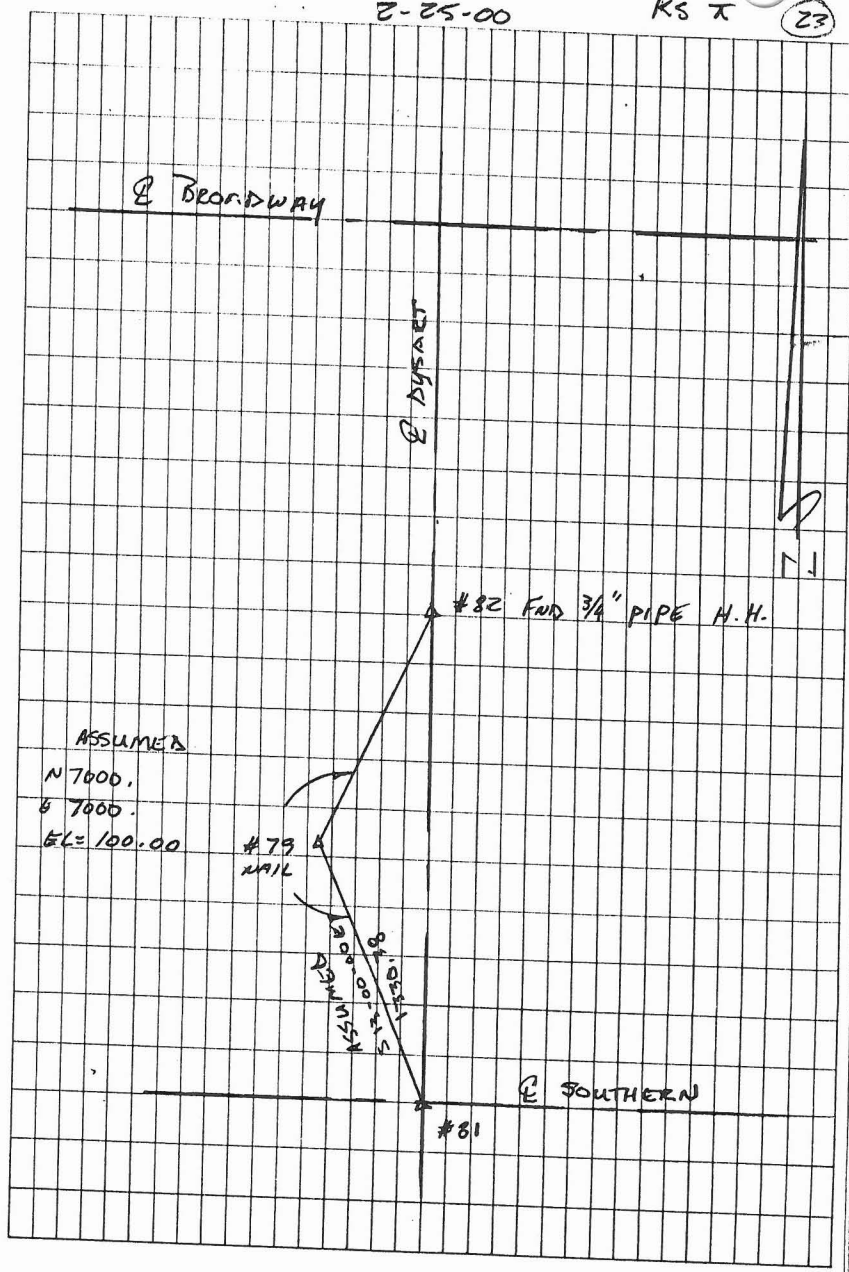
104.44

GB

2-25-00

KS π

23



℄ PROFILE DYSART RD

FILE NAME DYSART-1

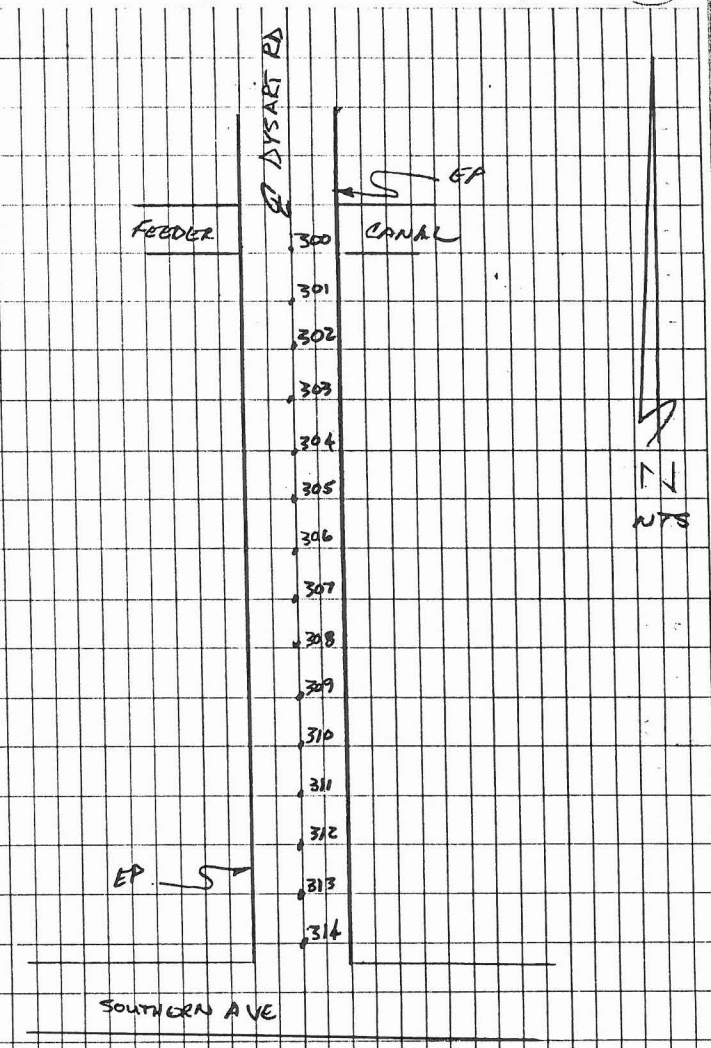
⊼ @ # 79 BS #81 w/00-00-00 ∡ RT

PT #	HI	HR	DESC
300	5.18	4.80	℄
301			
302			
303			
304			
305			
306			
307			
308			
309			
310			
311			
312			
313			
314			

GD [illegible] Φ

KS ⊼

2-25-00



℄ PROFILE DYSART RD

FILE NAME DYSART-1

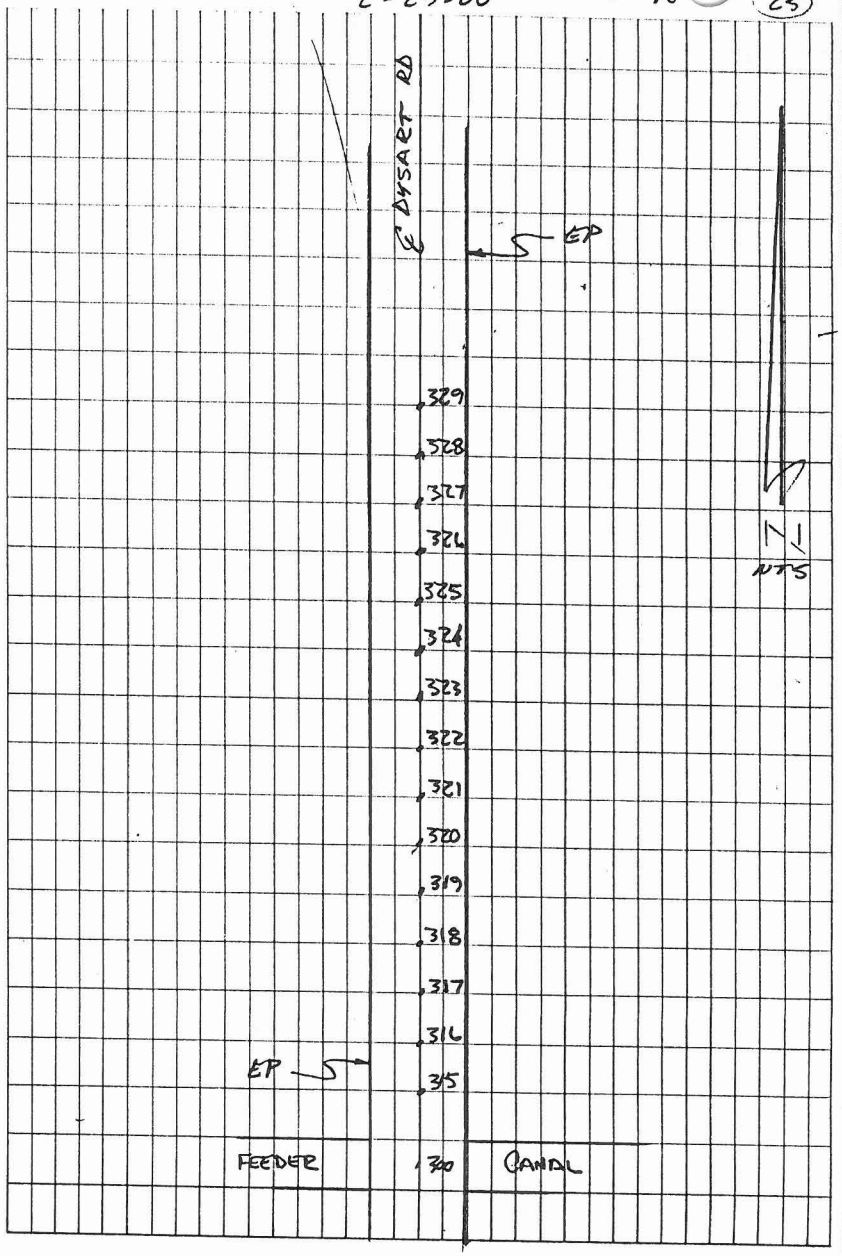
π @ 79 BS # 1 w/00-00-00 ∠ RT

PT #	HI	HR	DESC
315	5.18	4.80	℄
316			
317			
318			
319			
320			
321			
322			
323			
324			
325			
326			
327			
328			
329			

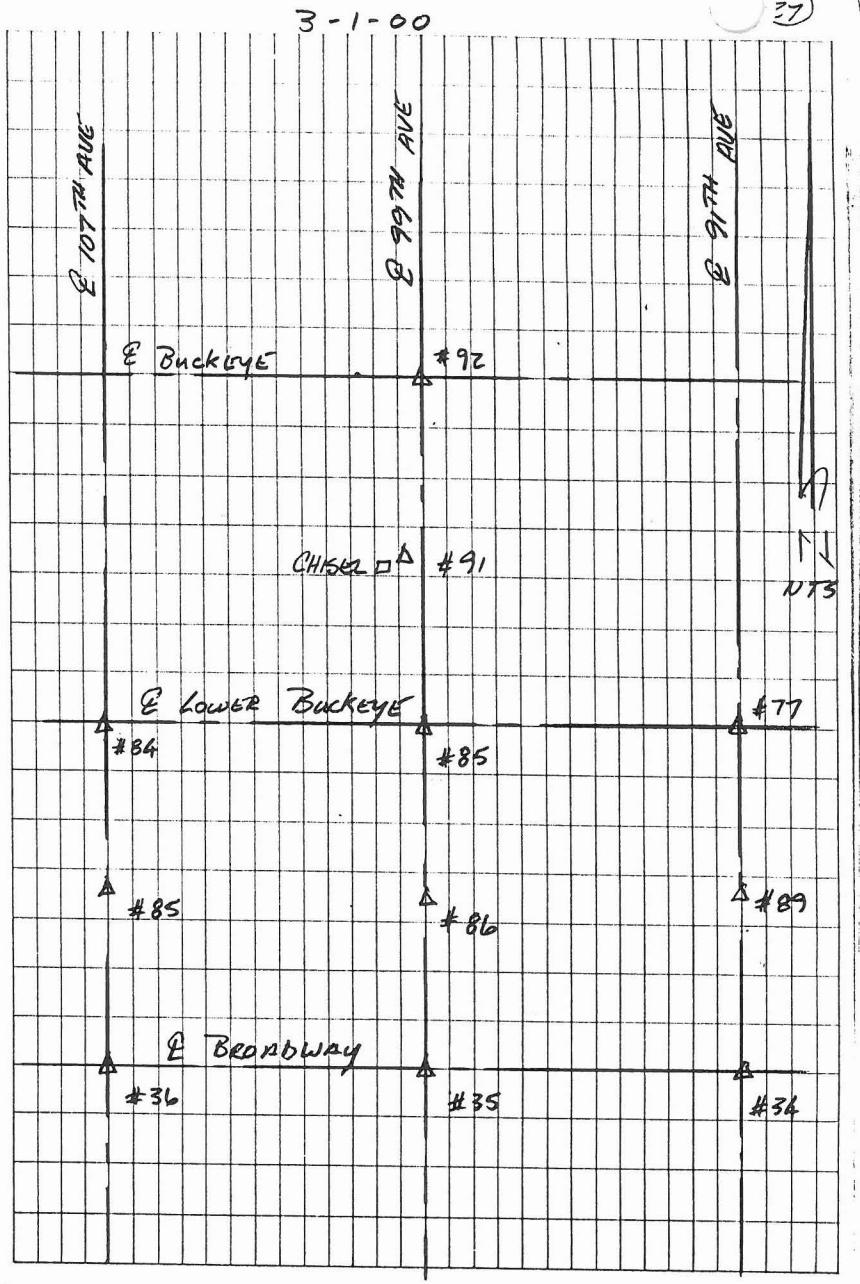
2-25-00

KS π

25



3-1-00


E 101st Ave
E 99th Ave
E 97th Ave
E Buckeye
#92
CHISEL
#91
NTS
E Lower Buckeye
#84
#85
#77
#85
#86
#89
E Broadway
#36
#35
#34

STA	PT NO	+	-	ELEV.	ADJ. ELEV.
POB	~~84~~ 5			~~970.549~~	970.841
		5.771			
TP1			5.222	~~971.098~~	
		5.121			
SS 2	201		5.348	~~970.871~~	971.165
TP3			4.471	~~971.748~~	
		5.978			
SS 4	202		4.320	~~973.407~~	973.703
TP5			4.350	~~973.376~~	
		6.204			
TP6			4.130	~~975.950~~	
		5.662			
TP7			4.272	~~976.841~~	
		6.032			
SS 8	203		5.860	~~977.013~~	977.315
SS 9	204		5.343	~~977.530~~	977.832
TP10			4.862	~~978.041~~	
		5.416			
TP11			4.782	~~978.644~~	
		5.740			
TP12			4.297	~~980.087~~	
		5.927			
TP13			4.127	~~981.887~~	
		4.969			

03-16-00

FD 1" I.P. @ 107TH AVE & LOWER BUCKEYE

201/ SET ½" Rebar ± 500' EAST OF 107TH AVE ON NORTH EDGE LOWER BUCKEYE RD. BETWEEN E/P & STOP AHEAD SIGN

202/ FD "X" CUT IN CENTER OF CONC. IRR. FLOW CONTROL SOUTH SIDE LOWER BUCKEYE RD ± 800' EAST OF 107TH AVE.

203/ SET ½" REBAR NORTH SIDE LOWER BUCKEYE RD ± 1200' EAST OF 107TH AVE 2.5' FROM E/P @ WEST SIDE OF NORTH BEARING CONC. LINED DITCH

204/ FD 1½" IRON SPIKE IN EAST BOUND LN. LOWER BUCKEYE @ CONCRETE LINED DITCH ALIGNMENT ± 1200' EAST OF 107TH AVE.

STA	PT NO	+	−	ELEV.	
SS 14	205		5.029	981.827	982.137
SS 15	BS		4.719	982.137	982.448
TP 16			4.474	982.382	
		5.638			
TP 17	206		5.733	982.287	982.598
		6.422			
TP 18			4.706	984.003	
		5.353			
TP 19			4.364	984.992	
		5.733			
SS 20	207		6.365	984.360	984.671
TP 21			4.905	985.820	
		5.395			
TP 22			4.945	986.270	
		5.741			
TP 23			5.220	986.791	
		5.786			
SS 24	208		6.356	986.222	986.533
TP 25			4.884	987.694	
		5.571			
TP 24			4.782	988.483	
		4.908			
TP 27			4.192	989.200	
		5.897			

20/ SET ½" REBAR ± 550 WEST OF 99TH AVE NORTH SIDE LOWER BUCKEYE ± 8.5' FROM E/P @ S/W COR. CONC. IRR. STRUCTURE

85/ FD 1" I.P. IN POTHOLE @ 99TH AVE. & LOWER BUCKEYE RD.

SET ½" REBAR NORTH SIDE LOWER BUCKEYE RD ± 500' EAST OF 99TH AVE. BETWEEN E/P & STOP AHEAD SIGN

SET ½" REBAR NORTH SIDE LOWER BUCKEYE RD ± 1500' EAST FROM 99TH AVE. ± 4.5' FROM E/P

SET ½" REBAR NORTH SIDE LOWER BUCKEYE RD ± 2500' EAST OF 99TH AVE. ± 5.5' FROM E/P

STA	PT No	+	−	ELEV	
SS 28	209		5.714	~~989.353~~	
TP 29			4.916	~~990.180~~	
		5.26			
SS 30	77		5.133	~~990.309~~	990.69
~~SS 31~~	~~210~~		~~4.301~~	~~991.141~~	
POB	210	5.020			
TP1	211		4.694	991.467	

77 FD BC IN POTHOLE @ 91ST AVE + LOWER BUCKEYE RD.
DWN 0.55 BELOW SURFACE

210 FD ½" REBAR ON S/W COR 91ST AVE. + LOWER BUCKEYE
±4.5' SOUTH OF CONCRETE LINED DITCH ±44.80 FROM E/P
OF 91ST AVE

FD BC IN CONC. @ S/W COR. OF 99TH AVE +
±3.5' SOUTH OF CONCRETE LINED DITCH ±58.6 FROM
E/P OF 91ST AVE.

Basis of Project Control

Basis of Control

For

Durango ADMP
Buckeye Feeder Canal, 91st Avenue to Agua Fria River
FCD 99-41

Data Collection

Data from the Maryvale ADMS Project was the basis for the supplemental surveying that was performed by PEC. The Maryvale ADMS Project was based on NAD27 State Plane Coordinates and NGVD29 vertical datum.

Horizontal Control

Horizontal control was performed using Kinematic GPS. The GPS network was tied into existing control from the Maryvale ADMS using a least squares best fit:

Pt#	Latitude	Longitude	Description
2	**33 24 22.07685**	**112 19 21.28246**	**BC in Handhole @ El Mirage Rd & Broadway Rd**
4	**33 24 22.84285**	**112 17 19.01402**	**BC in Handhole @ 107th Ave & Broadway Rd**
5032	**33 26 08.62660**	**112 15 15.91409**	**BC in Handhole @ 91st Ave & Lower Buckeye Rd**
5034	**33 24 23.30598**	**112 15 15.75933**	**BC in Handhole @ 91st Ave & Broadway Rd**

Vertical Control

Vertical control was based on control originally provided by Kaminski-Hubbard for the Maryvale ADMS project. The primary ERM used by PEC for this portion of the project was the brass cap in the handhole at the intersection of 107th Avenue and Buckeye Road (Elevation = 993.220'). This ERM was tied into an existing Salt River Project benchmark, a brass cap in handhole at 107th Avenue and Broadway Road. This loop fell within 3rd order tolerance.

Utilizing Salt River Project survey data that was incorporated into this portion of the project, this was then checked against another existing ERM, a brass cap in handhole on 99th Avenue +/-½ mile north of Buckeye Road (Elevation =1001.800'). The bench loop between these 2 caps fell within 3rd Order tolerance.

SRP Survey Data

1,	871649.17000,	375826.87600,	933.3170,	BRDG_SPIKE_SET
2,	875508.27500,	376128.19600,	937.5300,	BCHH
3,	875473.81300,	381350.51400,	946.2900,	BCHH
4,	875546.95400,	386493.13600,	973.1000,	BCHH
6,	870231.49200,	381342.46900,	943.6940,	BCHH
7,	870277.98600,	376117.50900,	935.6430,	BCHH
8,	870301.57300,	370873.54800,	929.3110,	BCHH
9,	870313.76500,	367059.47100,	922.0160,	BC FLUSH
15,	870315.52900,	366977.32700,	919.0130,	BRDG_SPIKE_SET
16,	868742.82800,	366251.89500,	918.8370,	BRDG_SPIKE_SET
17,	870439.78900,	368148.09600,	924.5850,	BRDG_SPIKE_SET
18,	871032.52400,	369000.02500,	923.7980,	BRDG_SPIKE_SET
19,	871613.25600,	369812.42100,	925.4300,	BRDG_SPIKE_SET
20,	871651.43900,	370817.06900,	925.9480,	BRDG_SPIKE_SET
21,	871646.08500,	372030.63400,	929.0700,	BRDG_SPIKE_SET
22,	871644.66400,	373023.68700,	929.1630,	BRDG_SPIKE_SET
23,	871642.85200,	374068.21000,	930.4220,	BRDG_SPIKE_SET
24,	871639.57500,	375107.73600,	932.5640,	BRDG_SPIKE_SET
25,	871635.70700,	376761.72900,	935.5250,	BRDG_SPIKE_SET
26,	871556.54900,	378154.48800,	937.9480,	BRDG_SPIKE_SET
27,	871541.61200,	379617.34500,	938.4740,	BRDG_SPIKE_SET
28,	871516.29900,	381385.59300,	940.2640,	BRDG_SPIKE_SET
29,	873266.05400,	381399.46400,	943.2300,	BRDG_SPIKE_SET
30,	874802.54300,	381403.39800,	946.0500,	BRDG_SPIKE_SET
31,	876685.18600,	381395.41700,	954.8640,	BRDG_SPIKE_SET
32,	875521.35500,	383894.11600,	961.2880,	BCHH 1/4 COR
33,	878116.67400,	381339.85200,	963.2340,	BCHH 1/4 COR
34,	878199.67600,	386464.20000,	964.9030,	FD.IP 1/4 COR
35,	872891.99300,	386535.91900,	965.4740,	BC FLUSH 1/4 COR
36,	870264.42700,	383959.36100,	948.0910,	BCHH 1/4 COR
37,	872853.52900,	381346.68100,	942.3270,	BCHH 1/4 COR
38,	870254.74400,	378730.33900,	939.8060,	BCHH 1/4 COR
39,	872892.78300,	376122.80900,	934.8700,	BCHH 1/4 COR
40,	870289.59300,	373495.87400,	931.6540,	BCHH 1/4 COR
41,	872895.93200,	370878.30700,	926.9960,	FD.IB 1/4 COR
42,	870343.09400,	365690.45200,	916.1690,	FD.IP SECT COR
43,	870322.18200,	368282.40600,	920.4860,	FD.IB 1/4 COR
44,	877149.75900,	382631.74200,	958.3080,	BRDG_SPIKE_SET
45,	877519.66300,	383939.73600,	960.8480,	BRDG_SPIKE_SET
46,	877541.61700,	385797.76600,	961.0790,	BRDG_SPIKE_SET
47,	870309.07660,	367657.49816,	922.2832,	BRDG_SPIKE_SET
48,	868666.58411,	366231.07038,	918.7722,	TOP_BANK
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50,	868501.53136,	366175.47214,	915.2546,	GROUND_AVERAGE
51,	868334.70883,	366121.97220,	914.8845,	GROUND_AVERAGE
52,	868160.77325,	366061.95604,	914.3140,	GROUND_AVERAGE
53,	868020.60269,	366017.41534,	915.0449,	TOP_BANK
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116, 870309.34934, 367080.81146, 918.0042, HIGH_WATER
117, 870307.89736, 367079.59606, 916.8313, BED
118, 870288.87656, 367079.48960, 915.8182, BED
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151, 871584.75743, 369782.46275, 917.0893, BED
152, 871570.82495, 369791.33178, 917.1051, BED
153, 871568.69635, 369793.40029, 918.8286, HIGH_WATER
154, 871560.72914, 369797.52428, 925.8168, TOP_BANK
155, 871556.95485, 369799.80226, 925.7165, ROAD_EDGE
156, 871544.97790, 369804.95894, 925.5581, ROAD_EDGE
157, 871581.36942, 369837.06590, 922.1493, PIPE_I_T_12_CONC
158, 871535.20837, 369854.14933, 922.2085, PIPE_I_T_12_CONC
159, 871666.47861, 370788.42681, 925.9897, ROAD_EDGE
160, 871652.67927, 370787.37370, 926.0634, ROAD_EDGE
161, 871650.01075, 370787.03060, 926.1736, TOP_BANK
162, 871643.59700, 370786.21865, 919.0717, HIGH_WATER
163, 871641.79494, 370785.14087, 917.7807, BED
164, 871626.45337, 370785.64650, 917.4207, BED
165, 871624.25746, 370786.06469, 918.9453, HIGH_WATER
166, 871614.84075, 370786.66626, 925.9547, TOP_BANK
167, 871612.32346, 370787.03802, 926.0812, ROAD_EDGE
168, 871600.16369, 370786.79048, 925.8069, ROAD_EDGE
169, 871642.79011, 370841.96935, 923.3582, PIPE_I_T_30_CMP
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172, 871669.71595, 370834.00138, 922.5814, BED
173, 871672.08102, 370836.33128, 924.9220, TOP_LINING
174, 871672.42194, 370839.18105, 924.9505, TOP_LINING
175, 871671.43482, 370842.22270, 921.7732, BED
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186, 871583.02612, 370848.98015, 923.6599, BED
187, 871583.43466, 370851.53020, 925.8893, TOP_LINING
188, 871617.22488, 370834.43599, 924.8753, TOP_BANK
189, 871618.43606, 370845.29798, 924.8459, TOP_BANK

190, 871625.11327, 370849.22672, 924.8876, TOP_BANK
191, 871638.82911, 370849.08382, 924.8742, TOP_BANK
192, 871644.97481, 370846.65166, 925.3231, TOP_BANK
193, 871647.48101, 370833.61600, 925.8058, TOP_BANK
194, 871630.23959, 370863.51285, 924.6228, PAVEMENT_EDGE
195, 871630.44235, 370876.86893, 924.8953, ROAD_CL_PAVED
196, 871630.33085, 370888.39749, 924.8418, PAVEMENT_EDGE
197, 871627.58558, 370845.28489, 921.6896, PIPE_I_T_48_CONC
198, 871633.74538, 370844.59617, 921.3429, PIPE_I_T_48_CONC
199, 871634.15637, 370902.94031, 921.8942, PIPE_I_T_48_CONC
200, 871627.78173, 370903.34489, 921.8286, PIPE_I_T_48_CONC
201, 871624.24542, 370904.63165, 923.7701, PIPE_I_T_18_CONC
202, 871596.86748, 370904.06534, 923.6299, PIPE_I_T_18_CONC
203, 871591.05458, 370907.54984, 924.9767, TOP_BANK
204, 871591.60898, 370903.03123, 923.4740, BED
205, 871592.20019, 370899.67998, 924.9537, TOP_BANK
206, 871622.01533, 370905.13760, 925.1077, TOP_BANK
207, 871624.00879, 370900.95879, 925.1541, TOP_BANK
208, 871640.44721, 370899.82818, 925.3594, TOP_BANK
209, 871642.08283, 370908.01217, 925.1888, TOP_BANK
210, 871637.36047, 370904.81715, 922.6497, PIPE_I_T_18_CMP
211, 871636.10759, 370926.81392, 922.6595, PIPE_I_T_18_CONC
212, 871669.57533, 370904.68880, 923.1177, PIPE_I_T_18_CMP
213, 871675.49774, 370898.37821, 924.6730, TOP_BANK
214, 871674.69408, 370903.12343, 921.7944, BED
215, 871674.58675, 370905.02492, 921.6337, BED
216, 871674.60319, 370910.96000, 925.5386, TOP_BANK
217, 871671.39437, 370902.09538, 922.6886, HIGH_WATER
218, 871692.93365, 370900.24994, 924.9196, TOP_BANK
219, 871693.47832, 370902.01605, 924.1444, BED
220, 871694.30148, 370904.05566, 925.3401, TOP_BANK
221, 871698.11520, 370899.28778, 924.0692, BED
222, 871707.50200, 370923.26835, 925.3708, TOP_BANK
223, 871707.80664, 370926.89259, 922.7722, HIGH_WATER
224, 871707.31808, 370927.59887, 921.5179, BED
225, 871706.44226, 370931.62299, 921.5244, BED
226, 871707.27758, 370933.41472, 922.6105, HIGH_WATER
227, 871707.47311, 370937.29692, 925.4102, TOP_BANK
228, 871698.87748, 370939.18301, 925.2330, TOP_BANK
229, 871693.81563, 370937.19571, 921.2294, BED
230, 871691.26887, 370936.31537, 921.7787, BED
231, 871690.67646, 370935.74684, 922.2141, HIGH_WATER
232, 871686.19732, 370936.85964, 925.2208, TOP_BANK
233, 871681.95453, 370927.20394, 923.5485, PIPE_I_T_18_CONC
234, 871660.84607, 370949.33839, 925.8571, ROAD_EDGE
235, 871648.06325, 370948.81507, 926.0817, ROAD_EDGE
236, 871643.86704, 370948.46841, 926.0770, TOP_BANK
237, 871637.51034, 370949.01293, 920.3744, HIGH_WATER
238, 871635.90887, 370949.07743, 918.5058, BED
239, 871622.70753, 370949.42599, 917.9281, BED
240, 871620.14625, 370949.02371, 920.4679, HIGH_WATER
241, 871613.98289, 370949.45816, 925.4559, TOP_BANK
242, 871610.82987, 370949.25118, 925.4710, ROAD_EDGE
243, 871601.44732, 370949.60130, 925.0973, ROAD_EDGE
244, 871596.58688, 371462.63908, 925.0497, PIPE_I_T_12_CMP
245, 871617.59346, 371462.29826, 924.5560, PIPE_I_T_12_CMP
246, 871662.19574, 372002.21763, 928.7080, ROAD_EDGE
247, 871644.55275, 371999.58467, 929.1234, ROAD_EDGE
248, 871634.85105, 371998.29005, 920.8351, HIGH_WATER
249, 871633.89166, 371997.86398, 919.0102, BED
250, 871621.71724, 371997.57993, 918.9011, BED

251, 871619.57408, 371997.57836, 920.6568, HIGH_WATER
252, 871614.32733, 371997.63121, 926.5433, TOP_BANK
253, 871611.06224, 371997.89362, 926.5574, ROAD_EDGE
254, 871601.81762, 371998.25651, 926.3898, ROAD_EDGE
255, 871619.64048, 372261.82491, 925.1791, PIPE_I_T_18_CMP
256, 871621.15653, 372311.88808, 924.5333, PIPE_I_T_12_CMP
257, 871592.66014, 372319.15980, 926.1731, PIPE_I_T_12_CMP
258, 871635.53600, 372627.15016, 922.9930, PIPE_I_T_12_CMP
259, 871693.87543, 372627.70094, 925.6723, PIPE_I_T_12_CMP
260, 871623.69617, 372673.97705, 922.6646, PIPE_I_T_14_CONC
261, 871592.09346, 372673.59178, 923.2681, PIPE_I_T_14_CONC
262, 871657.19416, 373024.39319, 928.8309, ROAD_EDGE
263, 871644.43482, 373025.07255, 929.1994, ROAD_EDGE
264, 871642.74794, 373024.91034, 929.1988, TOP_BANK
265, 871631.92459, 373024.61632, 921.6547, HIGH_WATER
266, 871631.31320, 373023.27055, 920.9763, BED
267, 871619.00970, 373024.58531, 920.5063, BED
268, 871617.17475, 373025.32989, 921.8871, HIGH_WATER
269, 871609.82226, 373023.21579, 928.6363, TOP_BANK
270, 871606.55565, 373023.31674, 928.7864, ROAD_EDGE
271, 871598.40211, 373023.70983, 928.6153, ROAD_EDGE
272, 871612.92230, 373375.21144, 926.8071, PIPE_I_T_12_CONC
273, 871583.36435, 373374.82118, 927.6906, PIPE_I_T_12_CONC
274, 871614.17278, 373744.02166, 926.3729, INSIDE TOP 16"CMP
275, 871587.17213, 373743.26401, 927.5974, INSIDE TOP 16"CMP
276, 871656.74232, 374032.18965, 930.0456, ROAD_EDGE
277, 871642.61142, 374031.06034, 930.3999, ROAD_EDGE
278, 871640.55370, 374030.69221, 930.2427, TOP_BANK
279, 871630.73181, 374029.10217, 923.2919, HIGH_WATER
280, 871629.70936, 374028.83233, 921.8031, BED
281, 871616.66579, 374028.33425, 922.2639, BED
282, 871615.33549, 374028.48090, 923.2445, HIGH_WATER
283, 871608.47309, 374028.85458, 929.2400, TOP_BANK
284, 871605.23455, 374028.41937, 929.4539, ROAD_EDGE
285, 871596.58782, 374027.79774, 929.4421, ROAD_EDGE
286, 871620.54476, 374233.00999, 926.7530, PIPE_I_T_18_CMP
287, 871590.11203, 374242.17899, 927.7312, PIPE_I_T_18_CMP
288, 871626.03890, 374499.85395, 926.4772, PIPE_I_T_15_CMP
289, 871683.18813, 374500.11117, 927.7707, PIPE_I_T_15_CMP
290, 871609.51061, 374489.34066, 927.5125, PIPE_I_T_12_CMP
291, 871652.02524, 375102.81977, 932.2045, ROAD_EDGE
292, 871638.45955, 375102.19161, 932.5070, ROAD_EDGE
293, 871636.52141, 375101.88098, 932.6207, TOP_BANK
294, 871627.00850, 375102.54556, 924.5995, HIGH_WATER
295, 871626.43510, 375102.01481, 923.9139, BED
296, 871612.86169, 375101.11040, 922.8935, BED
297, 871610.97251, 375100.93509, 924.5873, HIGH_WATER
298, 871602.45454, 375101.34449, 931.4639, TOP_BANK
299, 871600.38241, 375101.59289, 931.6308, ROAD_EDGE
300, 871590.07684, 375101.35999, 931.2005, ROAD_EDGE
301, 871613.43133, 375977.16185, 927.3840, PIPE_I_T_12_CMP
302, 871564.44555, 375980.94806, 930.6391, PIPE_I_T_12_CMP
303, 871650.93702, 376048.06651, 933.0151, ROAD_EDGE
304, 871639.47688, 376048.31197, 933.1134, ROAD_EDGE
305, 871635.88547, 376048.53312, 932.9304, TOP_BANK
306, 871626.24519, 376048.02006, 926.6913, HIGH_WATER
307, 871623.85815, 376048.09831, 925.4579, BED
308, 871612.89337, 376048.60467, 924.8921, BED
309, 871611.61121, 376048.31497, 926.5822, HIGH_WATER
310, 871603.76687, 376049.36994, 932.6096, TOP_BANK
311, 871601.26590, 376049.57919, 932.6213, ROAD_EDGE

312, 871590.87732, 376049.72029, 932.3514, ROAD_EDGE
313, 871615.46881, 376085.34765, 928.2030, PIPE_I_T_48_CONC
314, 871622.54281, 376085.24938, 928.2482, PIPE_I_T_48_CONC
315, 871621.01969, 376159.20571, 928.3903, PIPE_I_T_48_CONC
316, 871614.46791, 376159.24125, 928.4479, PIPE_I_T_48_CONC
317, 871626.02984, 376167.93455, 929.1577, PIPE_I_T_14_CONC
318, 871683.48705, 376171.92839, 931.8854, PIPE_I_T_14_CONC
319, 871649.45191, 376186.37578, 933.4551, ROAD_EDGE
320, 871637.31782, 376184.87547, 933.6687, ROAD_EDGE
321, 871633.39047, 376184.89086, 933.4116, TOP_BANK
322, 871625.78174, 376184.52881, 927.1748, HIGH_WATER
323, 871623.35943, 376184.20082, 925.0234, BED
324, 871612.78885, 376184.00405, 924.6173, BED
325, 871610.54021, 376183.85130, 927.2836, HIGH_WATER
326, 871603.71988, 376184.31955, 933.0936, TOP_BANK
327, 871600.78303, 376183.98113, 933.2093, ROAD_EDGE
328, 871589.79939, 376184.84503, 933.1218, ROAD_EDGE
329, 871608.80031, 376081.65422, 932.3123, COR_IRRIG_STRUCT
330, 871612.26532, 376085.36194, 932.4488, COR_IRRIG_STRUCT
331, 871616.52803, 376085.43260, 932.4022, COR_IRRIG_STRUCT
332, 871616.59148, 376085.41415, 931.1400, COR_IRRIG_STRUCT
333, 871621.19405, 376085.48196, 931.1450, COR_IRRIG_STRUCT
334, 871621.31695, 376085.45962, 932.4721, COR_IRRIG_STRUCT
335, 871625.62908, 376085.47418, 932.4806, COR_IRRIG_STRUCT
336, 871629.29100, 376081.98849, 932.4701, COR_IRRIG_STRUCT
337, 871629.72145, 376082.46299, 932.4875, WALL_THICKNESS
338, 871618.65996, 376105.93304, 932.2686, PAVEMENT_EDGE
339, 871618.18499, 376119.47808, 932.5930, ROAD_CL_PAVED
340, 871617.79759, 376133.53914, 932.4282, PAVEMENT_EDGE
341, 871628.51194, 376162.59551, 932.4388, COR_IRRIG_STRUCT
342, 871625.05335, 376159.04662, 932.4530, COR_IRRIG_STRUCT
343, 871619.77565, 376159.13934, 932.4847, COR_IRRIG_STRUCT
344, 871619.69005, 376159.07944, 931.1702, COR_IRRIG_STRUCT
345, 871615.32107, 376159.13110, 931.1680, COR_IRRIG_STRUCT
346, 871615.22325, 376159.03709, 932.5514, COR_IRRIG_STRUCT
347, 871610.59640, 376159.19593, 932.5406, COR_IRRIG_STRUCT
348, 871607.12452, 376162.90634, 932.5225, COR_IRRIG_STRUCT
349, 871606.71057, 376162.51564, 932.5205, WALL_THICKNESS
350, 871607.17984, 376162.43780, 932.5621, BENCH_MARK
351, 871609.60165, 376793.59906, 931.6660, PIPE_I_T_15_CMP
352, 871579.87866, 376796.17208, 934.1219, PIPE_I_T_15_CMP
353, 871586.01538, 376956.39882, 932.4113, PIPE_I_T_12_CMP
354, 871559.23768, 376952.18037, 933.4651, PIPE_I_T_12_CMP
355, 871592.13365, 377088.49492, 935.8449, ROAD_EDGE
356, 871577.30585, 377082.74878, 935.9797, ROAD_EDGE
357, 871575.60948, 377082.56011, 935.9433, TOP_BANK
358, 871564.47592, 377079.35286, 927.4449, HIGH_WATER
359, 871562.15655, 377078.76408, 925.8135, BED
360, 871551.37237, 377075.52950, 925.9556, BED
361, 871549.43857, 377074.75536, 927.3898, HIGH_WATER
362, 871539.71786, 377072.48348, 935.5659, TOP_BANK
363, 871536.71604, 377072.09805, 935.6225, ROAD_EDGE
364, 871528.05720, 377069.92567, 935.5259, ROAD_EDGE
365, 871555.65578, 377461.68807, 932.7246, PIPE_I_T_18_CMP
366, 871581.16719, 377458.32751, 933.5729, I_T_20"_CONCRETE
367, 871589.75264, 377450.55626, 935.5273, TOP_BANK
368, 871589.54996, 377454.56473, 933.3604, HIGH_WATER
369, 871589.47367, 377456.47060, 932.6112, BED
370, 871589.37478, 377460.56855, 932.4166, BED
371, 871589.63449, 377461.62594, 933.2740, HIGH_WATER
372, 871589.88430, 377466.47652, 935.3865, TOP_BANK

373, 871572.24204, 378105.50393, 937.3208, ROAD_EDGE
374, 871556.96024, 378104.35797, 938.0243, ROAD_EDGE
375, 871554.77973, 378104.08138, 938.1471, TOP_BANK
376, 871544.42952, 378113.40218, 927.7700, HIGH_WATER
377, 871543.73220, 378113.27390, 926.8500, BED
378, 871530.34913, 378105.63053, 927.0058, BED
379, 871528.93847, 378105.76041, 928.1361, HIGH_WATER
380, 871519.23590, 378105.78436, 937.7982, TOP_BANK
381, 871516.64321, 378106.01186, 937.8421, ROAD_EDGE
382, 871507.21151, 378105.00820, 937.4583, ROAD_EDGE
383, 871541.98417, 378569.31762, 934.9307, PIPE_I_T_18_CMP
384, 871576.60128, 378572.20929, 936.5840, PIPE_I_T_18_CONC
385, 871582.72383, 378565.88010, 937.3088, TOP_BANK
386, 871583.45629, 378568.15016, 936.5095, HIGH_WATER
387, 871583.83043, 378569.64475, 935.2872, BED
388, 871584.04477, 378573.99436, 935.1299, BED
389, 871584.33850, 378575.34932, 936.1882, HIGH_WATER
390, 871585.15709, 378578.98076, 937.8461, TOP_BANK
391, 871578.41669, 378570.51595, 936.9857, PIPE_I_T_18_CONC
392, 871578.42902, 378548.89642, 937.5899, PIPE_I_T_18_CONC
393, 871580.63156, 378550.09344, 938.1572, TOP_LINING
394, 871580.72385, 378549.43100, 937.3867, HIGH_WATER
395, 871580.59789, 378548.56376, 935.9077, BED
396, 871580.48331, 378547.09314, 935.7653, BED
397, 871580.50342, 378545.89208, 937.3237, HIGH_WATER
398, 871580.53165, 378545.23484, 937.9788, TOP_LINING
399, 871526.00968, 378751.95070, 935.9680, PIPE_I_T_18_CMP
400, 871493.75246, 378757.80721, 936.7015, PIPE_I_T_18_CMP
401, 871526.76069, 378701.90531, 934.4758, PIPE_I_T_18_CMP
402, 871501.48022, 378704.15492, 934.7226, PIPE_I_T_18_CMP
403, 871526.66464, 378633.37395, 934.9567, PIPE_I_T_12_CMP
404, 871482.79444, 378635.04161, 936.1716, PIPE_I_T_12_CMP
405, 871524.54358, 378444.81450, 935.0518, PIPE_I_T_15_CMP
406, 871490.85301, 378444.86788, 936.4785, PIPE_I_T_15_CMP
407, 871480.99213, 378442.50467, 938.4042, TOP_LINING
408, 871480.39001, 378444.05050, 937.1211, HIGH_WATER
409, 871480.57551, 378444.84972, 936.2136, BED
410, 871480.62856, 378445.82907, 936.2470, BED
411, 871480.43704, 378446.56403, 937.1089, HIGH_WATER
412, 871480.79948, 378447.55340, 937.8090, TOP_LINING
413, 871556.17941, 379291.88219, 938.4494, ROAD_EDGE
414, 871544.95769, 379291.38673, 938.6719, ROAD_EDGE
415, 871543.14208, 379291.33521, 938.6744, TOP_BANK
416, 871534.82353, 379291.82987, 929.4511, HIGH_WATER
417, 871533.67404, 379292.02332, 928.5145, BED
418, 871547.71541, 380282.38775, 939.4520, ROAD_EDGE
419, 871537.53522, 380282.56859, 939.8058, ROAD_EDGE
420, 871535.52906, 380282.57226, 939.7318, TOP_BANK
421, 871527.07744, 380282.41026, 931.2382, HIGH_WATER
422, 871525.35427, 380282.82489, 929.3760, BED
423, 871514.94415, 380352.34908, 937.6270, PIPE_I_T_18_CMP
424, 871480.09214, 380351.05155, 939.3461, PIPE_I_T_18_CONC
425, 871512.44515, 380282.59728, 929.8760, BED
426, 871510.64252, 380282.72045, 931.4712, HIGH_WATER
427, 871501.25077, 380281.81600, 939.8346, TOP_BANK
428, 871499.34730, 380281.79557, 940.1459, ROAD_EDGE
429, 871489.01264, 380283.10238, 939.8051, ROAD_EDGE
430, 871513.21928, 380101.69232, 937.1808, PIPE_I_T_24_CMP
431, 871465.73747, 380102.66175, 939.3545, PIPE_I_T_24_CMP
432, 871462.86717, 380100.44978, 939.2423, TOP_LINING
433, 871462.71277, 380101.57449, 938.1934, HIGH_WATER

434, 871462.44657, 380102.36378, 937.4436, BED
435, 871462.33678, 380103.43662, 937.6404, BED
436, 871462.31253, 380104.31349, 938.2214, HIGH_WATER
437, 871462.18510, 380105.90225, 939.4736, TOP_LINING
438, 871518.90925, 379289.40114, 928.5958, BED
439, 871517.40082, 379288.92583, 929.6856, HIGH_WATER
440, 871510.59433, 379289.27101, 938.9619, TOP_BANK
441, 871508.88264, 379289.14062, 939.0748, ROAD_EDGE
442, 871498.56801, 379288.94743, 938.7458, ROAD_EDGE
443, 873266.11248, 381399.57842, 943.0176, BRDG_SPIKE_SET
444, 871505.64802, 380823.91587, 937.7461, PIPE_I_T_18_CMP
445, 871486.10930, 380824.47317, 938.3910, PIPE_I_T_18_CONC
446, 871536.63149, 381237.99841, 940.2127, ROAD_EDGE
447, 871524.18727, 381236.33722, 940.3154, ROAD_EDGE
448, 871522.33491, 381235.74865, 940.3277, TOP_BANK
449, 871514.49877, 381235.74540, 933.8149, HIGH_WATER
450, 871512.24354, 381234.77014, 931.8038, BED
451, 871504.83042, 381235.99456, 932.5552, BED
452, 871502.88618, 381235.81290, 933.9801, HIGH_WATER
453, 871495.71363, 381235.80168, 940.5231, TOP_BANK
454, 871493.64340, 381236.05899, 940.4713, ROAD_EDGE
455, 871482.25228, 381236.30506, 940.1274, ROAD_EDGE
456, 871496.39685, 381278.45381, 940.2444, COR_IRRIG_STRUCT
457, 871499.36515, 381281.29301, 940.1519, COR_IRRIG_STRUCT
458, 871499.86522, 381291.60359, 940.2283, COR_IRRIG_STRUCT
459, 871511.89746, 381290.52382, 940.1890, COR_IRRIG_STRUCT
460, 871510.89307, 381280.22203, 940.1280, COR_IRRIG_STRUCT
461, 871513.24568, 381276.94083, 940.1049, COR_IRRIG_STRUCT
462, 871513.66695, 381277.20562, 940.1370, WALL_THICKNESS
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465, 871501.96717, 381311.20360, 937.1503, PIPE_I_T_12_CONC
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471, 871509.18316, 381324.64874, 940.4338, PAVEMENT_EDGE
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473, 871507.66043, 381372.16353, 940.5941, PAVEMENT_EDGE
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476, 871505.52939, 381378.54414, 939.3602, CATCH_BASIN
477, 871500.84167, 381378.60670, 939.4120, CATCH_BASIN
478, 871500.97177, 381376.20648, 939.4177, CATCH_BASIN
479, 871618.82270, 381408.09840, 937.1397, PIPE_I_T_60_CONC
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487, 871618.23527, 381417.40557, 943.9089, COR_IRRIG_STRUCT
488, 871618.37539, 381420.10044, 941.1533, COR_IRRIG_STRUCT
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1250, 877183.23833, 383459.22852, 954.2983, HIGH_WATER
1251, 877180.45088, 383458.81983, 951.9870, BED
1252, 877186.80325, 383475.71295, 954.7562, PIPE_I_T_18_CONC
1253, 877211.33033, 383476.08332, 954.9040, PIPE_I_T_18_CONC
1254, 877169.45971, 383462.45612, 951.6980, BED
1255, 877165.75341, 383463.32724, 954.2520, HIGH_WATER
1256, 877161.78083, 383462.75096, 958.2459, TOP_BANK
1257, 877160.48661, 383463.00752, 958.5089, ROAD_EDGE
1258, 877150.98156, 383464.72517, 958.6133, ROAD_EDGE
1259, 877077.26496, 382467.90922, 951.0443, BED
1260, 877073.58306, 382468.76960, 954.2255, HIGH_WATER
1261, 877065.94661, 382470.12963, 959.2906, TOP_BANK
1262, 877064.43786, 382471.49887, 959.4531, ROAD_EDGE
1263, 877055.93868, 382473.54671, 959.4042, ROAD_EDGE
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1272, 877152.33453, 383494.74690, 954.0277, PIPE_I_T_24_CONC
1273, 877224.52222, 383475.23151, 955.7243, TOP_LINING
1274, 877224.41777, 383476.23957, 954.9804, HIGH_WATER
1275, 877224.37537, 383477.20300, 953.8874, BED
1276, 877224.48038, 383478.70903, 953.9566, BED
1277, 877224.47546, 383479.27180, 954.8717, HIGH_WATER
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1281, 877567.28670, 383897.82958, 954.8394, BED
1282, 877567.07198, 383903.49709, 954.9701, BED
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1284, 877566.12758, 383910.35630, 960.1251, TOP_BANK
1285, 877550.28515, 383906.40352, 959.1264, TOP_LINING
1286, 877538.30092, 383906.08727, 960.0714, TOP_LINING
1287, 877538.00388, 383894.34513, 959.6222, TOP_LINING
1288, 877550.78163, 383893.30558, 958.9144, TOP_LINING
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1291, 877508.10116, 383899.08281, 958.3104, PIPE_I_T_36_CONC
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1293, 877452.23301, 383938.87914, 955.8703, PIPE_I_T_14_CONC

1294, 877550.89242, 383900.98798, 955.2170, BED
1295, 877541.93917, 384323.51548, 957.5556, PIPE_I_T_15_CONC
1296, 877512.65770, 384323.99366, 957.0337, PIPE_I_T_18_CONC
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1298, 877524.66554, 384406.81636, 960.5956, ROAD_EDGE
1299, 877522.73411, 384406.86425, 960.7045, TOP_BANK
1300, 877515.28255, 384407.64589, 954.4051, HIGH_WATER
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1302, 877503.26370, 384408.37711, 952.0364, BED
1303, 877500.36848, 384408.62240, 954.2376, HIGH_WATER
1304, 877495.88153, 384408.87664, 958.5463, TOP_BANK
1305, 877493.50268, 384409.03797, 958.6975, ROAD_EDGE
1306, 877483.56279, 384408.69378, 958.4385, ROAD_EDGE
1307, 877507.95344, 384640.77713, 956.2349, PIPE_I_T_24_CONC
1308, 877484.01024, 384642.59162, 957.4118, PIPE_I_T_18_CONC
1309, 877475.77964, 384640.60693, 957.6157, TOP_LINING
1310, 877474.70135, 384642.37008, 956.8520, HIGH_WATER
1311, 877474.66423, 384642.95019, 956.2230, BED
1312, 877474.79303, 384643.77597, 956.2218, BED
1313, 877474.64495, 384644.00150, 956.6937, HIGH_WATER
1314, 877474.99715, 384645.58689, 957.7590, TOP_LINING
1315, 877545.17339, 384860.52991, 958.3825, PIPE_I_T_15_CONC
1316, 877525.88831, 384860.81866, 957.9045, PIPE_I_T_18_CONC
1317, 877553.27768, 385253.06548, 957.6822, PIPE_I_T_15_CONC
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1322, 877533.85809, 385590.29095, 955.1390, HIGH_WATER
1323, 877531.23294, 385589.85034, 953.3991, BED
1324, 877520.21260, 385590.31590, 953.2297, BED
1325, 877518.29381, 385590.01742, 955.1124, HIGH_WATER
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1327, 877508.66838, 385591.42070, 961.2062, ROAD_EDGE
1328, 877495.32896, 385591.67601, 960.5198, ROAD_EDGE
1329, 877576.09583, 385605.10624, 959.5742, TOP_BANK
1330, 877575.67106, 385609.93838, 957.8085, HIGH_WATER
1331, 877575.52202, 385611.02862, 956.3483, BED
1332, 877575.18423, 385614.23084, 956.4750, BED
1333, 877575.80164, 385617.94789, 957.8609, HIGH_WATER
1334, 877576.49379, 385620.47501, 958.7766, TOP_BANK
1335, 877563.62087, 385615.44626, 957.7285, PIPE_I_T_24_CONC
1336, 877534.02445, 385605.71097, 958.0565, PIPE_I_T_24_CONC
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1338, 877549.62065, 386405.77353, 961.8248, ROAD_EDGE
1339, 877544.62086, 386405.76460, 961.8509, TOP_BANK
1340, 877540.92301, 386407.04405, 956.5541, HIGH_WATER
1341, 877538.82887, 386407.00823, 955.1569, BED
1342, 877530.05645, 386406.15688, 955.1598, BED
1343, 877528.28245, 386406.58683, 956.8174, HIGH_WATER
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1345, 877517.38506, 386406.53947, 962.1700, ROAD_EDGE
1346, 877504.92161, 386406.40076, 962.1087, ROAD_EDGE
1347, 877547.73803, 386424.30554, 961.6578, TOP_BANK
1348, 877524.81018, 386429.99439, 962.8711, TOP_BANK
1349, 877567.12820, 386432.01474, 961.4994, TOP_BANK
1350, 877539.28342, 386451.80265, 963.2216, TOP_BANK
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1352, 877582.35148, 386491.98612, 960.9043, PIPE_I_T_24_CONC
1353, 877581.97743, 386434.98476, 961.7395, TOP_BANK
1354, 877582.52023, 386440.59041, 958.2380, HIGH_WATER

1355, 877581.35194, 386442.75360, 957.0496, BED
1356, 877582.12404, 386451.20860, 956.6592, BED
1357, 877582.24588, 386451.42920, 963.2325, TOP_BANK
1358, 877581.66727, 386461.12892, 963.3422, PAVEMENT_EDGE
1359, 877581.20698, 386473.15276, 963.5323, ROAD_CL_PAVED
1360, 877581.37750, 386485.13156, 963.3580, PAVEMENT_EDGE
1361, 877581.88110, 386490.34314, 963.0558, TOP_BANK
1362, 872876.55900, 382664.92900, 945.5460, BRDG_SPIKE_SET
1363, 871577.65900, 382647.75800, 943.6130, BRDG_SPIKE_SET
1364, 871597.64100, 383943.76600, 945.4190, BRDG_SPIKE_SET
1365, 871624.46900, 385249.68500, 948.0920, BRDG_SPIKE_SET
1366, 871643.69400, 386523.71600, 952.3380, CHISELED_CROSS
1367, 872431.33500, 386504.43400, 958.6000, CHISELED_CROSS
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1393, 872872.88222, 382552.57176, 944.1506, ROAD_EDGE
1394, 872870.60970, 382552.34344, 943.9731, TOP_BANK
1395, 872867.70031, 382551.11591, 940.8081, HIGH_WATER
1396, 872865.72179, 382551.18626, 939.2282, BED
1397, 872859.59324, 382551.11557, 939.2704, BED
1398, 872858.34123, 382550.83898, 940.3354, HIGH_WATER
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1415, 872875.60663, 382608.34637, 942.6274, PIPE_I_T_12_CMP

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1418, 872878.91197, 382606.55401, 941.9319, BED
1419, 872878.99551, 382607.64261, 941.9166, BED
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1510, 871586.02237, 383959.26524, 945.4982, ROAD_EDGE
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2841, 878120.78176, 386415.38463, 963.3798, ROAD_EDGE
2842, 878165.79214, 386444.42126, 961.9528, PIPE_I_T_24_CONC
2843, 878170.49053, 386442.53110, 962.1175, PIPE_I_T_30_CONC
2844, 878405.92182, 386436.18371, 962.2642, PIPE_I_T_36_CONC
2845, 878447.23571, 386435.15414, 962.4986, PIPE_I_T_36_CONC
2846, 878537.15493, 386432.83584, 963.1233, PIPE_I_T_36_CONC
2847, 878569.67839, 386432.57168, 963.5368, PIPE_I_T_36_CONC
2848, 878702.70301, 386421.82054, 966.4247, TOP_BANK
2849, 878702.25453, 386426.56776, 963.3699, HIGH_WATER
2850, 878702.43344, 386428.33220, 961.1614, BED
2851, 878704.15781, 386435.65303, 961.2479, BED
2852, 878703.83177, 386438.39040, 963.4881, HIGH_WATER
2853, 878703.40068, 386443.55221, 967.1846, TOP_BANK
2854, 878703.42659, 386446.34779, 966.2434, PAVEMENT_EDGE
2855, 878824.22193, 386431.50032, 963.2032, PIPE_I_T_36_CONC
2856, 878917.38001, 386430.28319, 963.5383, PIPE_I_T_36_CONC
2857, 879018.91022, 386430.29458, 964.8423, PIPE_I_T_48_CONC
2858, 879042.60301, 386429.59300, 964.9350, PIPE_I_T_48_CONC
2859, 879152.20152, 386427.78817, 963.1025, PIPE_I_T_36_CONC
2860, 879172.75941, 386427.13812, 963.2079, PIPE_I_T_36_CONC
2861, 879536.53683, 386467.86745, 967.3311, POINT_TRAVERSE
2874, 879504.67126, 386423.21559, 963.6218, PIPE_I_T_36_CONC
2875, 879503.24756, 386426.61245, 964.7325, PIPE_I_T_18_CONC
2876, 879508.01129, 386469.02660, 964.9564, PIPE_I_T_18_CONC
2877, 879529.29130, 386473.16795, 967.0470, PIPE_I_T_24_CONC
2878, 879505.89989, 386474.30150, 965.8434, DITCH_CL_DRAIN
2879, 879546.07428, 386421.48446, 963.8949, PIPE_I_T_36_CONC
2880, 879989.20376, 386429.95306, 967.2672, PAVEMENT_EDGE
2881, 879989.91181, 386424.92650, 967.5096, TOP_BANK
2882, 879989.08911, 386422.31987, 964.8457, HIGH_WATER
2883, 879989.21370, 386419.60110, 963.2586, BED
2884, 879988.28254, 386411.67948, 962.6341, BED
2885, 879988.22012, 386408.27510, 964.8193, HIGH_WATER

2886, 879988.27210, 386405.66374, 967.0963, TOP_BANK
2887, 879996.95646, 386415.85227, 966.7470, PIPE_I_T_42_CONC
2888, 880021.77721, 386415.73643, 966.8615, PIPE_I_T_42_CONC
2889, 880564.28780, 386418.36090, 968.3041, BRIDGE X-WALK
2890, 880567.29457, 386418.20605, 968.5668, BRIDGE X-WALK
2891, 880566.50541, 386400.19897, 968.4281, BRIDGE X-WALK
2892, 880563.60593, 386400.22944, 968.4453, BRIDGE X-WALK
2893, 880678.68468, 386422.91992, 969.6134, PAVEMENT_EDGE
2894, 880678.14648, 386420.73472, 969.9671, TOP_BANK
2895, 880679.07844, 386417.07804, 967.0475, HIGH_WATER
2896, 880679.67661, 386415.06330, 964.6949, BED
2897, 880680.45019, 386406.70479, 964.5365, BED
2898, 880679.45315, 386403.83478, 966.9846, HIGH_WATER
2899, 880678.14049, 386400.05630, 970.6800, TOP_BANK
2900, 880822.15058, 386414.25863, 967.7358, PIPE_I_T_42_CONC
2901, 880836.31955, 386404.77716, 967.1179, PIPE_I_T_36_CONC
2902, 880898.17432, 386405.36072, 967.5405, PIPE_I_T_36_CONC
2903, 880910.64465, 386401.71703, 969.5696, PIPE_I_T_18_CONC
2904, 880836.40513, 386461.14916, 968.2185, PIPE_I_T_42_CONC
2905, 880841.94871, 386464.74705, 968.8283, PIPE_I_T_18_CMP
2906, 880857.25456, 386431.64252, 970.5493, PIPE_FOUND
2907, 878165.21839, 386483.63726, 962.4422, PIPE_I_T_24_CONC
2908, 878168.83124, 386483.68617, 961.5204, PIPE_I_T_30_CONC
2909, 878174.50375, 386486.67303, 962.6601, PIPE_I_T_15_CONC
2910, 878189.40242, 386491.19565, 963.3193, PIPE_I_T_15_CONC
2911, 878196.80882, 386501.31100, 962.9069, DITCH_CL_DRAIN
2912, 878197.38630, 386509.34904, 963.2454, DITCH_CL_DRAIN
2913, 878175.20749, 387049.22384, 965.1224, 6IN STEEL PIPE
2914, 878211.27885, 387815.52840, 968.2700, POINT_TRAVERSE
2915, 878218.31551, 389065.59559, 969.2700, POINT_TRAVERSE
2916, 880867.44593, 389025.43062, 976.8781, BOLT FD
2917, 878217.08398, 391659.17635, 980.3530, STONE_IN_HH
2918, 875552.92402, 389095.18935, 981.7536, BRS_CAP_IN_HH
2919, 878208.97945, 389060.55505, 969.2845, 16_13_COR_FD
2920, 878199.87868, 387116.59739, 967.3109, TOP_BANK
2921, 878196.28209, 387115.16853, 966.5402, ROAD_EDGE
2922, 878181.27750, 387118.54161, 966.6988, ROAD_EDGE
2923, 878179.97192, 387117.81527, 966.7135, TOP_BANK
2924, 878176.52696, 387116.30391, 964.2079, HIGH_WATER
2925, 878173.02790, 387116.65274, 961.3069, BED
2926, 878167.29319, 387116.12903, 961.2234, BED
2927, 878164.81290, 387116.26061, 963.5473, HIGH_WATER
2928, 878163.11345, 387116.40863, 965.4126, TOP_BANK
2929, 878204.57403, 387754.43597, 968.8396, TOP_BANK
2930, 878200.87887, 387754.12704, 968.1288, ROAD_EDGE
2931, 878189.20474, 387752.69496, 968.1031, ROAD_EDGE
2932, 878187.88553, 387752.67702, 968.1217, TOP_BANK
2933, 878185.50342, 387751.77208, 966.0874, HIGH_WATER
2934, 878181.80633, 387751.97322, 962.5049, BED
2935, 878173.18927, 387751.78024, 962.1316, BED
2936, 878170.83676, 387752.00427, 965.2890, HIGH_WATER
2937, 878168.89273, 387752.72390, 967.6788, TOP_BANK
2938, 878184.09080, 387793.48008, 966.0450, PIPE_I_T_21_CONC
2939, 878204.34349, 387793.15157, 966.3162, PIPE_I_T_21_CONC
2940, 878164.33317, 387818.51877, 965.4984, PIPE_I_T_18_CMP
2941, 878124.73109, 387817.22087, 966.4299, PIPE_I_T_18_CMP
2942, 878147.61945, 387887.48722, 966.3939, PIPE_I_T_18_CMP
2943, 878165.73759, 387887.70541, 965.8977, PIPE_I_T_18_CMP
2944, 878166.45931, 387839.34433, 966.6272, TOP OF 12IN PIPE
2945, 878210.44326, 387793.13514, 964.7031, DITCH_CL_DRAIN
2946, 878231.40276, 387793.01091, 964.6938, DITCH_CL_DRAIN

2947, 878214.16343, 387780.15049, 966.0668, DITCH_CL_DRAIN
2948, 878174.80259, 387832.49109, 965.6852, PIPE_I_T_24_CONC
2949, 878205.03460, 387832.00910, 965.6257, PIPE_I_T_24_CONC
2950, 878200.88253, 388370.15201, 966.4941, PIPE_I_T_24_CONC
2951, 878176.62848, 388370.01460, 962.7201, PIPE_I_T_24_CONC
2952, 878172.81676, 388366.94703, 964.2981, DITCH_CL_DRAIN
2953, 878173.11272, 388365.50804, 962.9171, DITCH_CL_DRAIN
2954, 878171.99880, 387830.11941, 963.5519, DITCH_CL_DRAIN
2955, 878171.69772, 387828.20626, 960.8930, DITCH_CL_DRAIN
2956, 878165.23441, 388392.95644, 968.2811, TOP_BANK
2957, 878167.27774, 388392.79048, 966.2924, HIGH_WATER
2958, 878169.51184, 388392.75561, 963.8708, BED
2959, 878176.56231, 388392.03938, 964.7452, BED
2960, 878179.53307, 388392.12295, 966.8031, HIGH_WATER
2961, 878181.78876, 388392.80006, 968.3875, TOP_BANK
2962, 878182.86996, 388391.98299, 968.4337, ROAD_EDGE
2963, 878195.00125, 388393.16403, 968.2775, ROAD_EDGE
2964, 878195.80912, 388393.55559, 968.2287, TOP_BANK
2965, 878177.43694, 388924.95529, 967.7771, PIPE_I_T_24_CONC
2966, 878201.67975, 388925.37755, 967.3723, PIPE_I_T_24_CONC
2967, 878173.49021, 388921.80413, 965.2704, DITCH_CL_DRAIN
2968, 878173.60094, 388920.28927, 964.2902, DITCH_CL_DRAIN
2969, 878166.44754, 389024.23170, 970.1863, TOP_BANK
2970, 878168.56250, 389023.99187, 967.7170, HIGH_WATER
2971, 878169.94959, 389024.25476, 964.8150, BED
2972, 878176.73540, 389025.93358, 965.5478, BED
2973, 878179.51106, 389026.23673, 967.8084, HIGH_WATER
2974, 878182.39129, 389026.14127, 969.8982, TOP_BANK
2975, 878185.95354, 389025.40279, 969.9129, ROAD_EDGE
2976, 878206.03922, 389021.79420, 969.0395, ROAD_EDGE
2977, 878207.71974, 389021.08975, 969.2362, TOP_BANK
2978, 878150.33836, 389057.18884, 969.1930, PIPE_I_T_18_CONC
2979, 878168.75229, 389056.37878, 969.3692, PIPE_I_T_18_CONC
2980, 878387.19961, 390207.77987, 972.8500, POINT_TRAVERSE
2981, 878181.99948, 389032.59656, 970.3220, TOP_BANK
2982, 878166.18104, 389032.88432, 970.2899, TOP_BANK
2983, 878181.46457, 389046.36792, 970.2261, TOP_BANK
2984, 878163.94878, 389051.70598, 971.2710, TOP_BANK
2985, 878185.15182, 389062.65802, 970.0535, TOP_BANK
2986, 878168.67694, 389067.17917, 970.8850, TOP_BANK
2987, 878207.65941, 389104.81207, 969.5703, TOP_BANK
2988, 878190.78045, 389111.42668, 971.2034, TOP_BANK
2989, 878219.76908, 389139.21499, 969.4308, TOP_BANK
2990, 878205.27459, 389143.30762, 971.1389, TOP_BANK
2991, 878226.94593, 389172.27895, 969.4909, TOP_BANK
2992, 878211.30875, 389174.31555, 971.3905, TOP_BANK
2993, 878231.37196, 389214.29137, 969.7078, TOP_BANK
2994, 878214.24207, 389214.82400, 971.4427, TOP_BANK
2995, 878223.86763, 389598.71263, 964.5581, DITCH_CL_DRAIN
2996, 878224.08970, 389601.33916, 967.0026, DITCH_CL_DRAIN
2997, 878226.91973, 389603.34042, 969.2590, PIPE_I_T_24_CONC
2998, 878251.16492, 389603.46325, 969.2338, PIPE_I_T_24_CONC
2999, 878214.89488, 389639.43000, 972.9614, TOP_BANK
3000, 878218.32619, 389638.73658, 969.7254, HIGH_WATER
3001, 878220.86867, 389638.64457, 966.6990, BED
3002, 878225.53529, 389638.94466, 966.7403, BED
3003, 878227.96519, 389639.20129, 969.3280, HIGH_WATER
3004, 878230.66587, 389639.16462, 970.7903, TOP_BANK
3005, 878232.67133, 389639.47861, 970.9154, ROAD_EDGE
3006, 878245.33310, 389641.28874, 970.7805, ROAD_EDGE
3007, 878246.32656, 389641.24794, 970.7153, TOP_BANK

3008, 878210.14714, 389806.30070, 973.3419, TOP_BANK
3009, 878227.01626, 389807.38860, 971.4823, TOP_BANK
3010, 878210.46938, 389857.30992, 973.5289, TOP_BANK
3011, 878228.22691, 389857.73705, 971.9767, TOP_BANK
3012, 878213.26989, 389893.86954, 973.6550, TOP_BANK
3013, 878233.04310, 389889.09289, 972.3266, TOP_BANK
3014, 878234.56021, 389946.09722, 973.8055, TOP_BANK
3015, 878251.91865, 389937.67580, 972.2769, TOP_BANK
3016, 878264.80877, 389998.22343, 974.0129, TOP_BANK
3017, 878279.98978, 389987.94278, 972.3527, TOP_BANK
3018, 878293.53318, 390037.07794, 973.9849, TOP_BANK
3019, 878306.87386, 390026.01987, 972.3431, TOP_BANK
3020, 878317.22253, 390071.27752, 974.2915, TOP_BANK
3021, 878329.73419, 390055.33108, 972.5849, TOP_BANK
3022, 878326.12670, 390088.59255, 974.3941, TOP_BANK
3023, 878343.46979, 390082.36155, 972.7103, TOP_BANK
3024, 878332.76856, 390109.10583, 974.5312, TOP_BANK
3025, 878349.70388, 390106.25844, 972.8564, TOP_BANK
3026, 878373.32596, 390278.89039, 967.2595, DITCH_CL_DRAIN
3027, 878373.90910, 390280.57777, 968.4914, DITCH_CL_DRAIN
3028, 878377.48508, 390283.21032, 970.8575, PIPE_I_T_24_CONC
3029, 878401.50862, 390279.97585, 971.1574, PIPE_I_T_24_CONC
3030, 878392.17760, 390237.48821, 972.9640, TOP_BANK
3031, 878391.05057, 390237.70203, 972.9610, ROAD_EDGE
3032, 878376.87348, 390240.23586, 973.4605, ROAD_EDGE
3033, 878375.06800, 390240.66649, 973.4958, TOP_BANK
3034, 878372.44948, 390241.27655, 971.1125, HIGH_WATER
3035, 878369.86429, 390241.39602, 968.3999, BED
3036, 878363.79335, 390242.98949, 968.1293, BED
3037, 878361.66245, 390243.18838, 971.3175, HIGH_WATER
3038, 878357.92099, 390244.08866, 974.8644, TOP_BANK
3039, 878406.76828, 390413.89886, 973.8464, TOP_BANK
3040, 878389.36635, 390417.79206, 975.8941, TOP_BANK
3041, 878416.19709, 390452.03769, 974.0790, TOP_BANK
3042, 878399.13285, 390457.27607, 976.2661, TOP_BANK
3043, 878428.82626, 390492.40529, 974.1412, TOP_BANK
3044, 878411.02813, 390499.34273, 977.1277, TOP_BANK
3045, 878733.39076, 391212.47995, 975.4200, POINT_TRAVERSE
3046, 878580.86425, 390830.78867, 974.5705, TOP_BANK
3047, 878579.93553, 390831.12580, 974.5708, ROAD_EDGE
3048, 878565.96579, 390837.23095, 974.8082, ROAD_EDGE
3049, 878564.29624, 390838.05585, 974.6645, TOP_BANK
3050, 878561.15406, 390838.99483, 971.9413, HIGH_WATER
3051, 878559.60545, 390839.61400, 969.7350, BED
3052, 878554.33563, 390842.40706, 969.8641, BED
3053, 878552.92810, 390842.92305, 972.3494, HIGH_WATER
3054, 878548.11357, 390845.47347, 977.5668, TOP_BANK
3055, 878605.82402, 390953.39044, 972.7816, PIPE_I_T_24_CONC
3056, 878629.15032, 390946.21015, 972.5778, PIPE_I_T_24_CONC
3057, 878601.09554, 390950.16343, 968.7070, DITCH_CL_DRAIN
3058, 878601.72549, 390951.37408, 970.4413, DITCH_CL_DRAIN
3059, 878775.45248, 391422.24380, 978.2285, TOP_BANK
3060, 878780.04610, 391419.30144, 974.0260, HIGH_WATER
3061, 878782.21635, 391418.43010, 971.4596, BED
3062, 878788.69540, 391416.37564, 971.5113, BED
3063, 878791.34545, 391416.61960, 974.1392, HIGH_WATER
3064, 878794.09157, 391415.61910, 976.2928, TOP_BANK
3065, 878795.30652, 391415.15273, 976.4135, ROAD_EDGE
3066, 878809.25696, 391410.09881, 975.7114, ROAD_EDGE
3067, 878810.29197, 391409.69661, 975.6837, ROAD_EDGE
3068, 878841.61215, 391574.97648, 975.4647, PIPE_I_T_54_CONC

3069, 878848.51099, 391610.65120, 975.7909, PIPE_I_T_54_CONC
3070, 878845.98013, 391613.96500, 974.2868, PIPE_I_T_36_CONC
3071, 878834.44919, 391677.73365, 975.2546, PIPE_I_T_36_CONC
3072, 878845.79520, 391623.91180, 977.5040, GATE SEAT
3073, 878848.33933, 391616.27184, 974.5075, 60IN GATE SEAT
3074, 878849.45002, 391622.33827, 974.4849, BED
3075, 878810.88918, 391681.12096, 979.3714, TOP_BANK
3076, 878813.43154, 391685.90823, 975.9526, HIGH_WATER
3077, 878814.44575, 391686.77141, 973.9507, BED
3078, 878814.60753, 391690.45290, 973.7972, BED
3079, 878814.80146, 391691.01824, 975.6246, HIGH_WATER
3080, 878813.72955, 391695.87975, 979.4292, TOP_BANK
3081, 878861.26269, 391696.04985, 979.3651, TOP_BANK
3082, 878861.33682, 391693.20751, 975.6752, HIGH_WATER
3083, 878856.06396, 391690.93684, 973.1165, BED
3084, 878855.48680, 391688.17770, 973.1505, BED
3085, 878855.30797, 391684.51467, 975.6109, HIGH_WATER
3086, 878861.31808, 391679.98983, 979.4371, TOP_BANK
3087, 878834.59265, 391682.68950, 972.6491, BED
3088, 878895.20150, 391599.32856, 978.7222, TOP_BANK
3089, 878895.01027, 391600.13253, 978.9231, ROAD_EDGE
3090, 878893.91000, 391615.44454, 979.6535, ROAD_EDGE
3091, 878893.88193, 391616.45607, 979.6913, TOP_BANK
3092, 878893.05577, 391619.43374, 977.3160, HIGH_WATER
3093, 878893.18661, 391621.28207, 975.8381, BED
3094, 878893.33604, 391629.38265, 975.8755, BED
3095, 878893.66644, 391630.74097, 977.4421, HIGH_WATER
3096, 878893.55054, 391634.46241, 980.0515, TOP_BANK
3097, 878893.59193, 391636.90198, 978.9708, TOE
3098, 878895.66403, 391643.50442, 978.8703, PAVEMENT_EDGE
3099, 878217.51072, 391659.10311, 980.5222, STONE_IN_HH

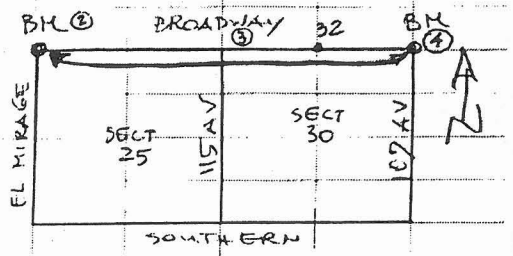
LF
CB

8-5-97
RDO-31707-502

55

STA	BS	HI.	FS	ELEV.
	3.535	976.635		973.10
T.P.			6.440	970.195
	3.890	974.085		
T.P.			6.420	967.665
	4.200	971.865		
T.P.			6.095	965.770
	3.340	969.110		
T.P.			5.940	963.170
	4.080	967.250		
T.P.			5.470	961.780
	4.620	966.400		
			4.79	961.610
T.P.			5.120	961.280
	3.655	964.935		
T.P.			7.270	957.665
	1.860	959.525		
T.P.			7.700	951.825
	2.555	954.380		

B.C. IN HH @ 107th AVE & BROADWAY



PAVM'T.
GPS # 32
B.C. IN POTHOLE @ 1/4 COR.

8-5-97

RDO-31707-502

STA.	BS.	HI.	FS.	ELEV.	
		954.380			
T.P.			6.110	948.270	
	4.370	952.640			
T.P.			5.500	947.140	
	4.560	951.700			
T.P.			5.640	946.060	
	5.425	951.485			
T.P.			5.205	946.280	③ BC. IN HH., 115th AVE. & BROADWAY. +0.46 Rim.
	3.660	949.940			
T.P.			5.850	944.090	
	4.735	948.825			
T.P.			5.660	943.165	
	4.340	947.505			
T.P.			5.940	941.565	
	4.550	946.115			
T.P.			5.020	941.095	
	4.440	945.535			
T.P.			5.480	940.055	
	4.650	944.705			

8-5-97

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S7

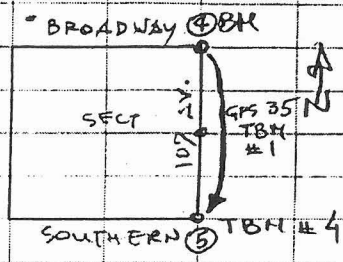
STA	BS	HI.	FS	ELEV.		
		944.705				
T.P.			5.600	939.105		
	4.715	943.820				
T.P.			5.590	938.230		
	4.730	942.960				
T.P.			4.900	938.060		
	4.400	942.460				
T.P.			5.520	936.940		
	5.060	942.000				
T.P.			5.770	936.230		
	4.895	941.125				
T.P.			3.080	938.045		
			3.660	937.465	BC. IN HH.	
					(937.53) R	
	96.265		131.90		35.635	35.570

BG.
CB.

RDO-31707-502

	B.S.	H.I.	F.S.		
	5.096	978.196		973.10	BM
TP			3.598	974.598	
	5.358	979.956			
TP			5.353	974.603	
	2.935	977.538			
TP			5.715	971.823	
	3.686	975.509			
TP			5.447	970.062	
	4.225	974.287			
TP			5.832	968.455	
	3.198	971.653			
TP			6.129	965.524	
	2.114	967.638			
TP			6.823	960.815	
	2.996	963.811			
TP			5.211	958.600	
	2.467	961.067			
TP			6.693	954.374	

P.C. IN H.H. AT BROADWAY AND 107 AV.



GPS #35 TBM #1 — B.C. FL. AT 107 AV & REESER

TBM #2 — BACK OF S-WALK AT S. END OF S/W (W. OF 107 AV. & ± 400' S. OF REESER

RDD-31707-502

	2.330	956.704		
TP			4.366	952.338
	3.575	955.913		
TP			5.279	950.634
	4.793	955.427		
TP			4.752	950.675
	5.202	955.877		
			3.542	952.335
				952.75

TBM #3 "+" AT SE COR OF BRIDGE W. SIDE OF 107 AV. ℄ ± 1/4 MIL N. OF SOUTHERN

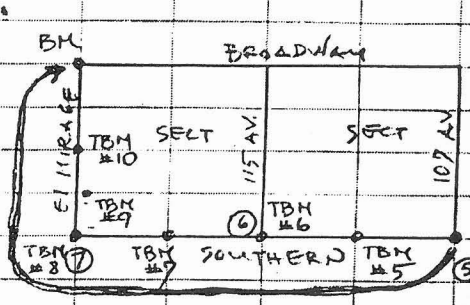
TBM #4 B.C. IN H.H AT 107 AV ℄ SOUTHERN (5)

RIM EL. 107 AV ℄ SOUTHERN (952.33 + 0.42 = 952.75)

RDO - 31707-502

60

	B.S.	H.I.	F.S.	EL.	DESCRIPTION
	3.090	955.425		952.335	TBM #4 BC. 111 H.N. AT 107 AV. & SOUTHERN
X1			4.260	951.165	
	4.452	955.617			
X2			4.693	950.924	
	4.024	954.948			
X3			4.412	950.536	
	3.252	953.788			
X4			4.196	949.592	
	3.237	952.829			
X5			4.738	948.091	GPS 36 TBM #5 BC 111 H.N. AT SOUTHERN AND TO BE 111 AV. (1/4 COR.)
	3.918	952.009			
X6			4.266	947.743	
	3.328	951.121			
X7			4.294	946.827	
	3.526	950.353			
X8			4.448	945.905	



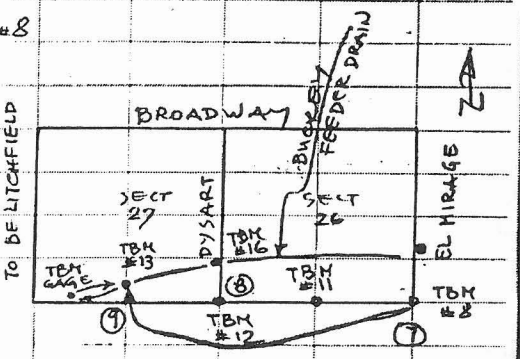
N9	3.494	949.399			
			4.392	945.007	
N10	3.196	948.203			
			4.552	943.651	TB1 #6 BC. INHH. AT 115 AV. SOUTHERN ⑥
N11	4.276	947.927			
			4.540	943.387	
N12	3.650	947.037			
			4.466	942.571	
N13	3.300	945.871			
			4.149	941.722	
N14	3.624	945.346			
			4.415	940.931	
N15	3.802	944.933			GPS 38 BC INHH AT SOUTHERN TRAIL TO BE 119 AV.
			4.352	939.881	
N16	4.200	944.781			
			4.843	938.208	

T17	5.015	943.723			
			5.957	937.766	
T18	5.012	942.778			
			5.966	936.812	
T19	5.186	941.998			
			6.118	935.880	
T20	5.443	941.323			
			5.612	935.705	TBM#8 BC IN HH AT EL MIRAGE & SOUTHERN (7)
T21	2.334	938.039			
			4.924	933.065	
T22	3.880	936.945			
			4.363	932.582	TBM#9 CH. "+" ON H-WALL AT SE COR. OF ELMIRAGE & BUCKEY FEEDER (1W 1/4N)
T23	5.005	937.587			
			3.728	933.809	
T24	4.736	938.545			
			3.847	934.698	

			GPS #39	BC IN HH AT EL MIRAGE &
K25	4.722	939.470	TBM #10	1/2 MIL N. OF SOUTHERN (1W 1½N)
		4.583 934.887		
K26	4.562	939.455		
		4.292 935.163		
K27	4.839	940.002		
		4.035 935.967		
K28	4.976	940.943		
		4.237 936.706		
K29	5.024	941.730		
		4.122 937.608		
K30	4.997	942.605		
		5.063 937.542	BM	BC IN HH AT BROADWAY & EL MIRAGE
		(937.53)		

	B.S.	H.I.	F.S.	El.
	5.478	941.183		935.205
T1				~~935.705~~
			5.819	935.364
	5.043	940.407		
T2			5.988	934.419
	5.012	939.431		
T3			6.455	932.976
	5.436	938.412		
T4			6.147	932.265
	5.556	937.801		
T5				
			6.147	931.654
	5.422	937.076		
T6				
			6.146	930.930

TBM #8



TBM #11 BC IN M.H. ½ MILE WEST OF EL MIRAGE ON SOUTHERN

	BS	HI	FS	EL		
	5.498	936.428				
π^7			6.201	930.227		
	6.172	936.399				
π^8			5.362	931.037		
	4.859	935.896				
π^9			5.946	929.950		
	5.478	935.428				
π^{10}			6.093	929.335	TBM#12 BC IN H.H. DYSART & SOUTHERN	8
	3.414	932.749				
π^{11}			6.665	926.084		
	4.843	930.927				
π^{12}			6.187	924.740		