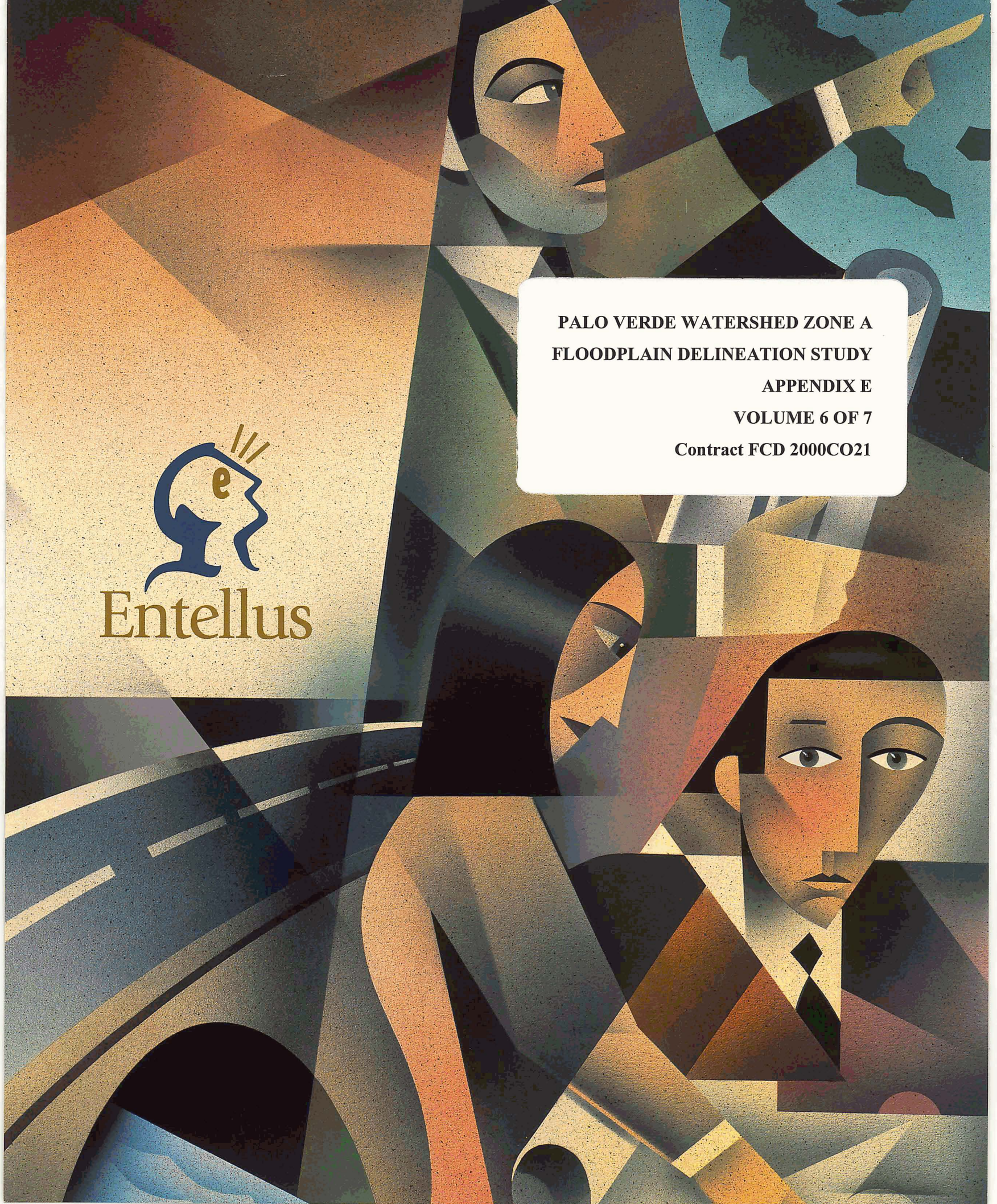

PALO VERDE WATERSHED ZONE A

FLOODPLAIN DELINEATION STUDY

APPENDIX E

VOLUME 6 OF 7

Contract FCD 2000CO21

Entellus

PALO VERDE WATERSHED ZONE A

FLOODPLAIN DELINEATION STUDY

TECHNICAL DATA NOTEBOOK

Contract FCD 2000CO21

Volume 6 of 7

MAY 3 0 2003

Prepared by:

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Entellus™

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY

FCD 2000CO21

TECHNICAL DATA NOTEBOOK

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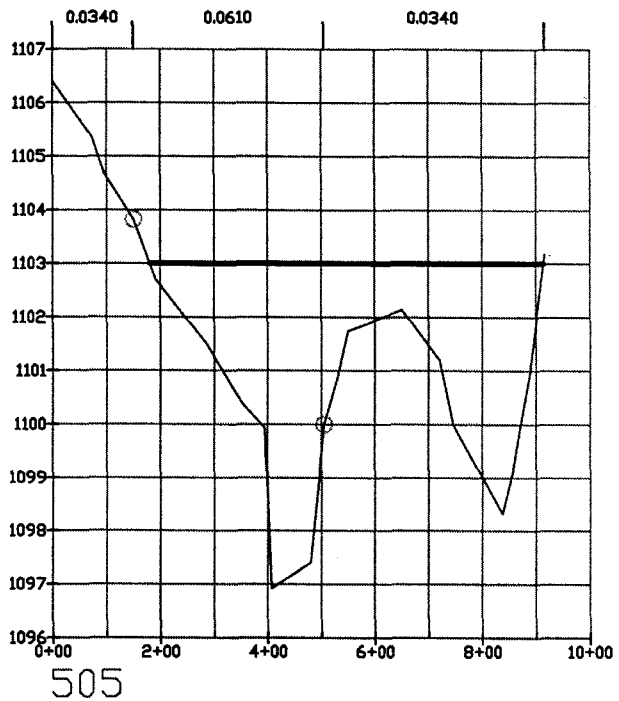
Area C Washes

T1S-R6W-S29E
T2N-R6W-S18E
T2N-R6W-S18W
T2N-R6W-S19
T2N-R6W-S30W
T2N-R7W-S02
T2N-R7W-S07E
T2N-R7W-S07S
T2N-R7W-S10
T2N-R7W-S15E
T2N-R7W-S15W
T2N-R7W-S18E
T2N-R7W-S18W
T2N-R7W-S19E
T2N-R7W-S19W
T2N-R7W-S20E
T2N-R7W-S20W
T2N-R7W-S25E
T2N-R7W-S26E
T2N-R7W-S26W
T2N-R7W-S27W

T1S-R6W-S29E



Normal Depth Results

Cross-Section:	505	
Elevation:	1103.00	ft MSL
Depth:	6.08	ft
Discharge:	8910.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.3442	
Flow Regime:	Subcritical	
Flow Area:	1849.76	sq ft
Average Velocity:	4.80	ft/s
Maximum Velocity:	5.80	ft/s
Composite n:	0.0469	
Hydraulic Radius:	2.52	ft
Wetted Perimeter:	734.38	ft
Wetted Top Width:	733.63	ft
Critical Slope:	0.0566	ft/ft

NOT USED IN DELINEATION

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S29E–505

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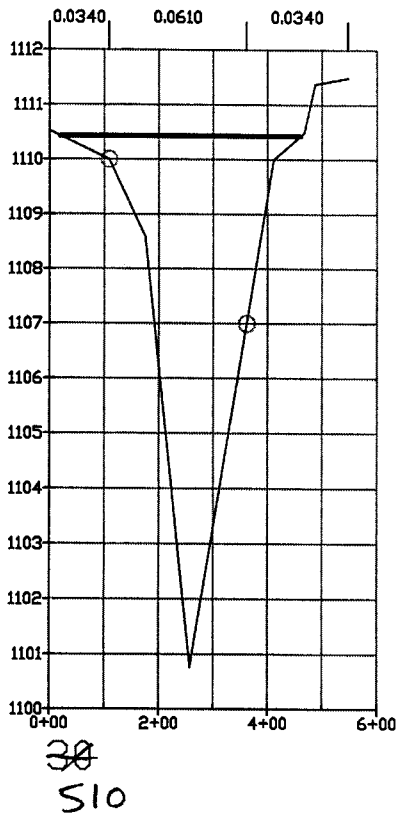

Normal Depth Results

Cross-Section:	~~30~~ S10	
Elevation:	1110.43	ft MSL
Depth:	9.66	ft
Discharge:	7110.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.2967	
Flow Regime:	Subcritical	
Flow Area:	1359.09	sq ft
Average Velocity:	5.23	ft/s
Maximum Velocity:	5.44	ft/s
Composite n:	0.0503	
Hydraulic Radius:	3.07	ft
Wetted Perimeter:	442.46	ft
Wetted Top Width:	441.79	ft
Critical Slope:	0.0795	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S29E–~~30~~ S10

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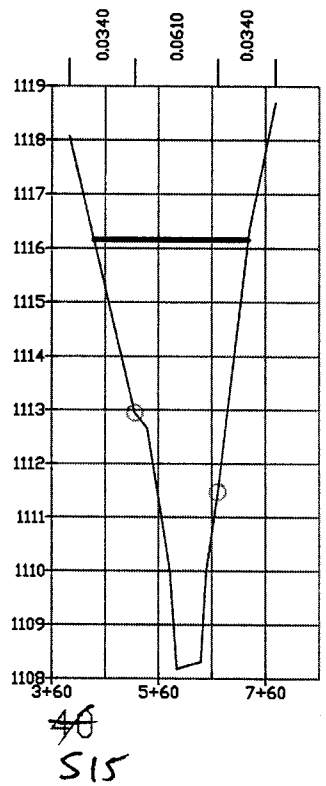
File: T1S-R6W-S29E-New-mapping.dwg Date: 10/03/02



Normal Depth Results

Cross-Section:	~~40~~ 515	
Elevation:	1116.16	ft MSL
Depth:	7.97	ft
Discharge:	7040.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.3746	
Flow Regime:	Subcritical	
Flow Area:	1173.12	sq ft
Average Velocity:	5.99	ft/s
Maximum Velocity:	6.18	ft/s
Composite n:	0.0494	
Hydraulic Radius:	4.05	ft
Wetted Perimeter:	289.80	ft
Wetted Top Width:	289.14	ft
Critical Slope:	0.0437	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S29E–~~40~~ 515

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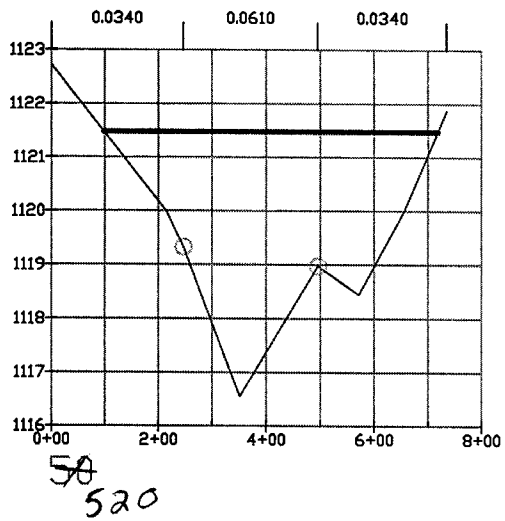

Normal Depth Results

Cross-Section:	~~50~~ 520	
Elevation:	1121.48	ft MSL
Depth:	4.93	ft
Discharge:	6960.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.3689	
Flow Regime:	Subcritical	
Flow Area:	1497.79	sq ft
Average Velocity:	4.64	ft/s
Maximum Velocity:	5.39	ft/s
Composite n:	0.0457	
Hydraulic Radius:	2.41	ft
Wetted Perimeter:	620.95	ft
Wetted Top Width:	620.84	ft
Critical Slope:	0.0463	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S29E–~~50~~ 520

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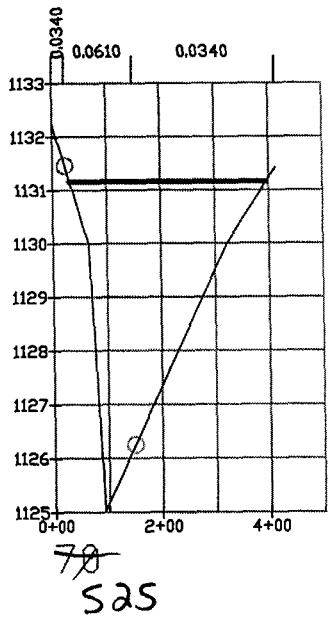

Normal Depth Results

Cross-Section:	~~70~~ 525	
Elevation:	1131.16	ft MSL
Depth:	6.13	ft
Discharge:	5310.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.3783	
Flow Regime:	Subcritical	
Flow Area:	999.31	sq ft
Average Velocity:	5.29	ft/s
Maximum Velocity:	5.91	ft/s
Composite n:	0.0436	
Hydraulic Radius:	2.73	ft
Wetted Perimeter:	365.79	ft
Wetted Top Width:	365.25	ft
Critical Slope:	0.0442	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S29E–~~70~~ 525

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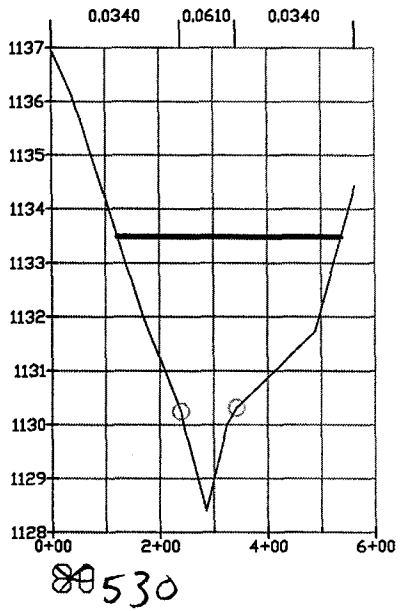

Normal Depth Results

Cross-Section:	~~80~~ 530	
Elevation:	1133.49	ft MSL
Depth:	5.09	ft
Discharge:	5200.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.3979	
Flow Regime:	Subcritical	
Flow Area:	1021.60	sq ft
Average Velocity:	5.10	ft/s
Maximum Velocity:	5.50	ft/s
Composite n:	0.0414	
Hydraulic Radius:	2.46	ft
Wetted Perimeter:	415.15	ft
Wetted Top Width:	415.00	ft
Critical Slope:	0.0381	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S29E–~~80~~ 530

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File: T1S-R6W-S29E-New-mapping.dwg, Date: 10/03/02

~~90~~ 535

Normal Depth Results

Cross-Section:	~~90~~ 535	
Elevation:	1138.25	ft MSL
Depth:	4.84	ft
Discharge:	2160.00	cfs
Energy Gradient:	0.0071	ft/ft
Froude Number:	0.2978	
Flow Regime:	Subcritical	
Flow Area:	580.81	sq ft
Average Velocity:	3.71	ft/s
Maximum Velocity:	3.71	ft/s
Composite n:	0.061	
Hydraulic Radius:	2.42	ft
Wetted Perimeter:	239.98	ft
Wetted Top Width:	239.77	ft
Critical Slope:	0.0804	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S29E–~~90~~ 535

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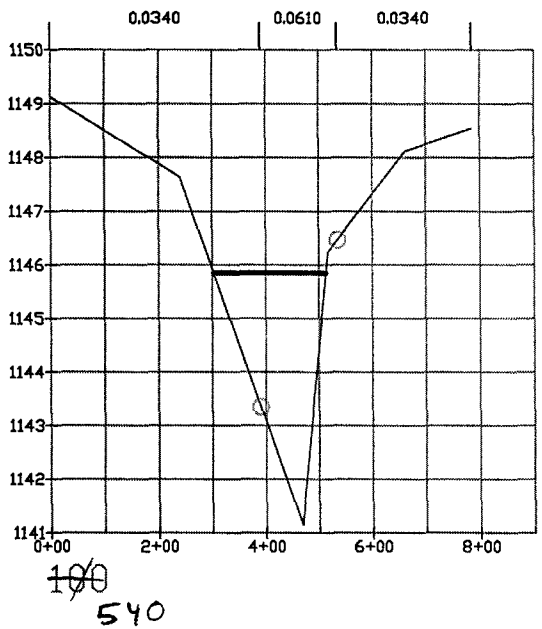

Normal Depth Results

Cross-Section:	~~100~~ 540	
Elevation:	1145.85	ft MSL
Depth:	4.70	ft
Discharge:	2160.00	cfs
Energy Gradient:	0.0071	ft/ft
Froude Number:	0.3549	
Flow Regime:	Subcritical	
Flow Area:	494.81	sq ft
Average Velocity:	4.38	ft/s
Maximum Velocity:	4.41	ft/s
Composite n:	0.0506	
Hydraulic Radius:	2.35	ft
Wetted Perimeter:	210.71	ft
Wetted Top Width:	210.40	ft
Critical Slope:	0.0559	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S29E–~~100~~ 540

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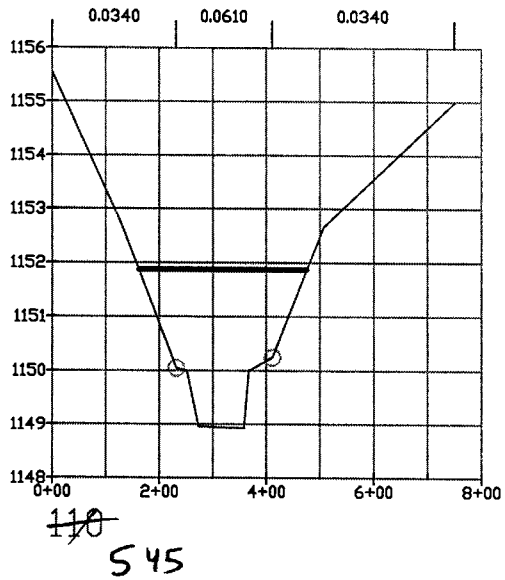
File: T1S-R6W-S29E-New-mapping.dwg Date: 10/03/02



Normal Depth Results

Cross-Section:	~~110~~ 545	
Elevation:	1151.87	ft MSL
Depth:	2.94	ft
Discharge:	2160.00	cfs
Energy Gradient:	0.0071	ft/ft
Froude Number:	0.4025	
Flow Regime:	Subcritical	
Flow Area:	551.71	sq ft
Average Velocity:	3.93	ft/s
Maximum Velocity:	4.15	ft/s
Composite n:	0.0466	
Hydraulic Radius:	1.76	ft
Wetted Perimeter:	314.28	ft
Wetted Top Width:	314.15	ft
Critical Slope:	0.0437	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S29E–~~110~~ 545

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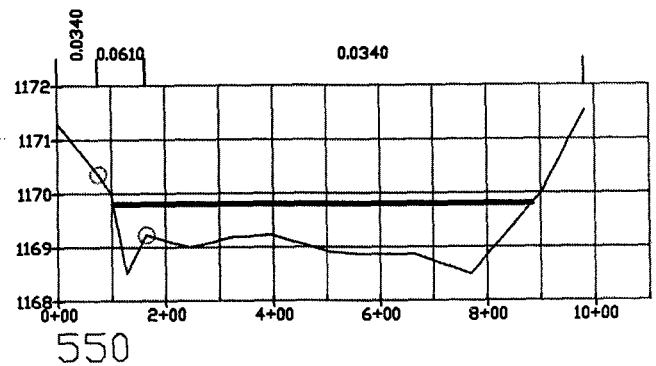

Normal Depth Results

Cross-Section:	550	
Elevation:	1169.81	ft MSL
Depth:	1.32	ft
Discharge:	1910.00	cfs
Energy Gradient:	0.0071	ft/ft
Froude Number:	0.4678	
Flow Regime:	Subcritical	
Flow Area:	627.48	sq ft
Average Velocity:	3.08	ft/s
Maximum Velocity:	3.19	ft/s
Composite n:	0.0364	
Hydraulic Radius:	0.8	ft
Wetted Perimeter:	781.43	ft
Wetted Top Width:	781.38	ft
Critical Slope:	0.0339	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S29E–550

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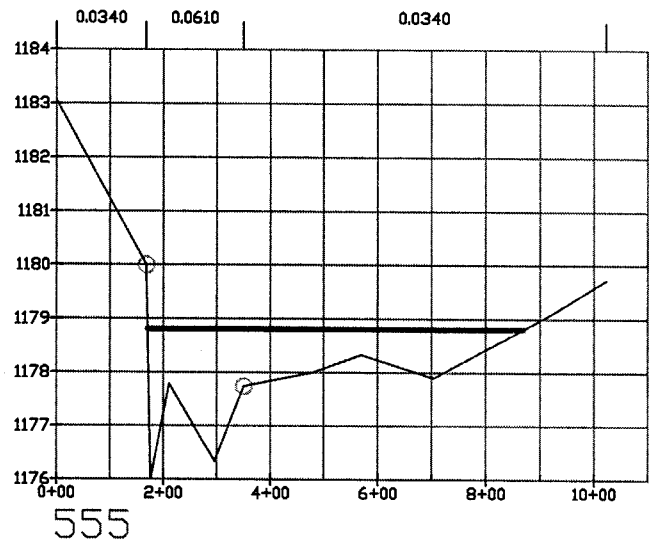

Normal Depth Results

Cross-Section:	555	
Elevation:	1178.81	ft MSL
Depth:	2.81	ft
Discharge:	1910.00	cfs
Energy Gradient:	0.0071	ft/ft
Froude Number:	0.3026	
Flow Regime:	Subcritical	
Flow Area:	664.18	sq ft
Average Velocity:	2.91	ft/s
Maximum Velocity:	3.01	ft/s
Composite n:	0.0417	
Hydraulic Radius:	0.95	ft
Wetted Perimeter:	698.76	ft
Wetted Top Width:	697.99	ft
Critical Slope:	0.0759	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S29E–555

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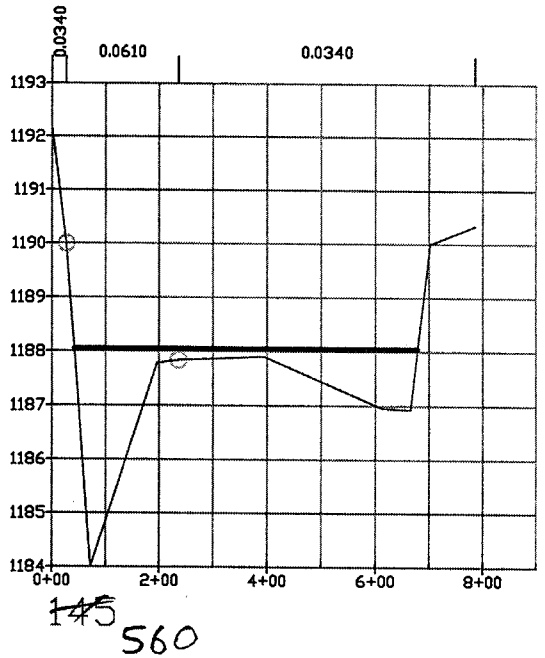
File: T1S-R6W-S29E-New-mapping.dwg, Date: 10/03/02



Normal Depth Results

Cross-Section:	~~145~~ 560	
Elevation:	1188.05	ft MSL
Depth:	4.05	ft
Discharge:	1550.00	cfs
Energy Gradient:	0.0071	ft/ft
Froude Number:	0.2393	
Flow Regime:	Subcritical	
Flow Area:	567.21	sq ft
Average Velocity:	2.73	ft/s
Maximum Velocity:	2.97	ft/s
Composite n:	0.0431	
Hydraulic Radius:	0.89	ft
Wetted Perimeter:	637.69	ft
Wetted Top Width:	637.31	ft
Critical Slope:	0.1277	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S29E–~~145~~ 560

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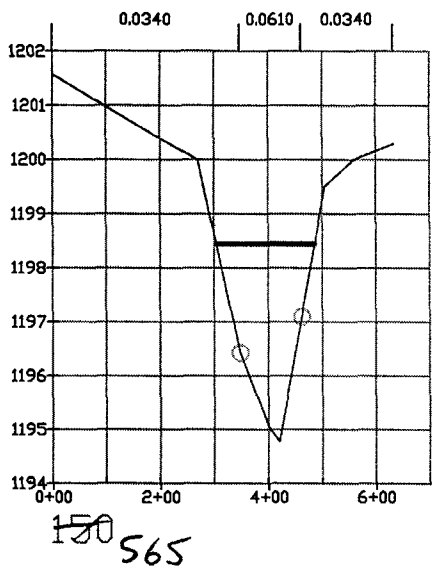


Normal Depth Results

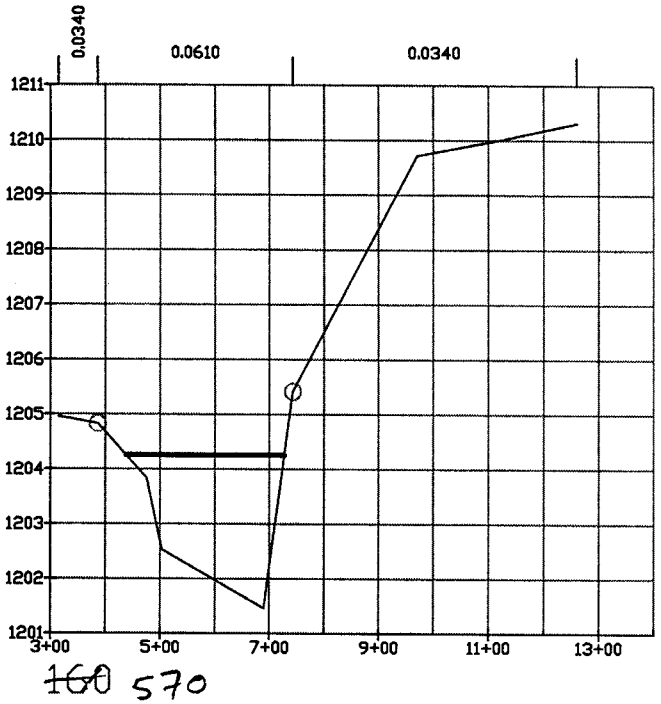
Cross-Section:	~~150~~ 565	
Elevation:	1198.45	ft MSL
Depth:	3.67	ft
Discharge:	1550.00	cfs
Energy Gradient:	0.0071	ft/ft
Froude Number:	0.3794	
Flow Regime:	Subcritical	
Flow Area:	376.13	sq ft
Average Velocity:	4.14	ft/s
Maximum Velocity:	5.52	ft/s
Composite n:	0.052	
Hydraulic Radius:	2.06	ft
Wetted Perimeter:	182.28	ft
Wetted Top Width:	182.11	ft
Critical Slope:	0.0548	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S29E–~~150~~ 565

Entellus™

File: T1S-R6W-S29E-New-mapping.dwg Date: 10/03/02



Normal Depth Results

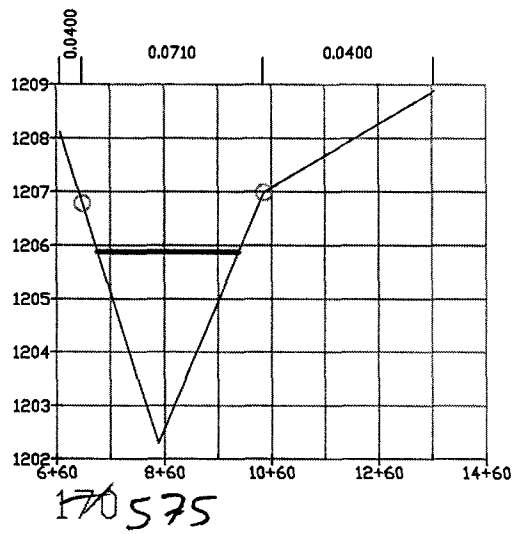
Cross-Section:	~~160~~ 570	
Elevation:	1204.26	ft MSL
Depth:	2.80	ft
Discharge:	1550.00	cfs
Energy Gradient:	0.0071	ft/ft
Froude Number:	0.3187	
Flow Regime:	Subcritical	
Flow Area:	512.63	sq ft
Average Velocity:	3.01	ft/s
Maximum Velocity:	3.01	ft/s
Composite n:	0.061	
Hydraulic Radius:	1.77	ft
Wetted Perimeter:	289.98	ft
Wetted Top Width:	289.84	ft
Critical Slope:	0.0705	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S29E–~~160~~ 570

Entellus™

File: T1S-R6W-S29E-New-mapping.dwg Date: 10/03/02



Normal Depth Results

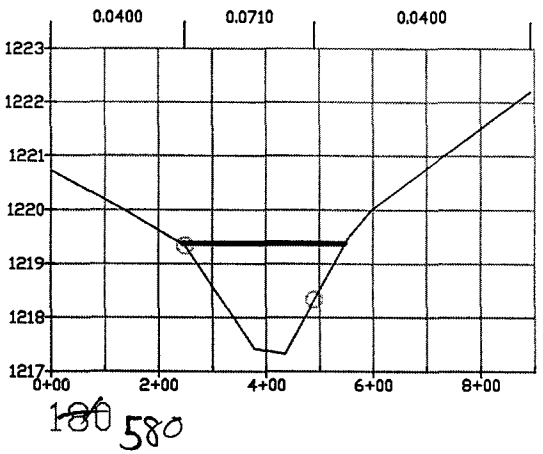
Cross-Section:	~~170~~ 575	
Elevation:	1205.88	ft MSL
Depth:	3.58	ft
Discharge:	1230.00	cfs
Energy Gradient:	0.0071	ft/ft
Froude Number:	0.2437	
Flow Regime:	Subcritical	
Flow Area:	470.26	sq ft
Average Velocity:	2.61	ft/s
Maximum Velocity:	2.61	ft/s
Composite n:	0.071	
Hydraulic Radius:	1.79	ft
Wetted Perimeter:	262.52	ft
Wetted Top Width:	262.42	ft
Critical Slope:	0.1202	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S29E–~~170~~ 575

Entellus™

File: T1S-R6W-S29E-New-mapping.dwg, Date: 10/03/02



Normal Depth Results

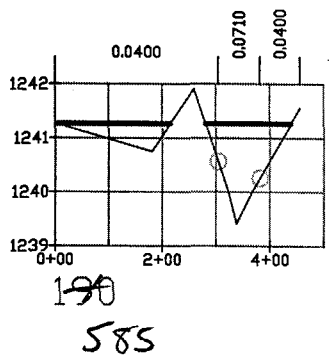
Cross-Section:	~~180~~ 580	
Elevation:	1219.38	ft MSL
Depth:	2.05	ft
Discharge:	920.00	cfs
Energy Gradient:	0.0101	ft/ft
Froude Number:	0.3166	
Flow Regime:	Subcritical	
Flow Area:	357.92	sq ft
Average Velocity:	2.57	ft/s
Maximum Velocity:	2.59	ft/s
Composite n:	0.0652	
Hydraulic Radius:	1.18	ft
Wetted Perimeter:	303.73	ft
Wetted Top Width:	303.70	ft
Critical Slope:	0.1015	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S29E–~~180~~ 580

Entellus™

File: T1S-R6W-S29E-New-mapping.dwg; Date: 10/03/02



Normal Depth Results

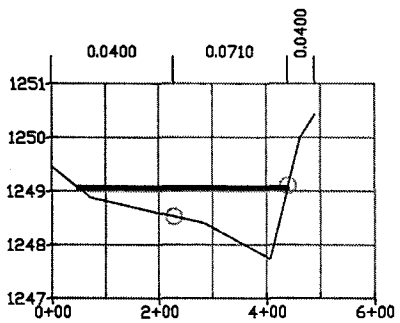
Cross-Section:	~~190~~ 585	
Elevation:	1241.26	ft MSL
Depth:	1.85	ft
Discharge:	430.00	cfs
Energy Gradient:	0.0101	ft/ft
Froude Number:	0.2848	
Flow Regime:	Subcritical	
Flow Area:	195.46	sq ft
Average Velocity:	2.21	ft/s
Maximum Velocity:	2.56	ft/s
Composite n:	0.0472	
Hydraulic Radius:	0.53	ft
Wetted Perimeter:	371.56	ft
Wetted Top Width:	371.51	ft
Critical Slope:	0.1414	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S29E–~~190~~ 585

Entellus™

File: T1S-R6W-S29E-New-mapping.dwg Date: 10/03/02



~~210~~ 590

Normal Depth Results

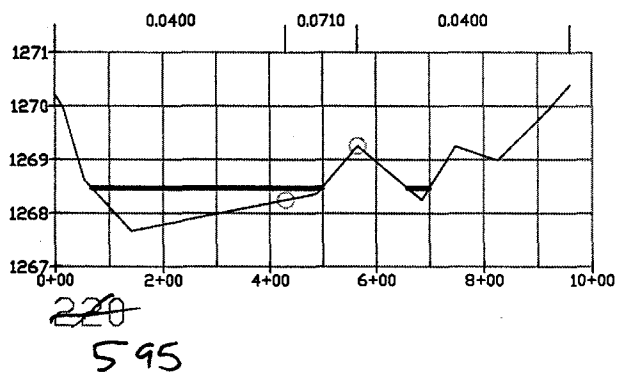
Cross-Section:	~~210~~ 590	
Elevation:	1249.06	ft MSL
Depth:	1.32	ft
Discharge:	430.00	cfs
Energy Gradient:	0.0101	ft/ft
Froude Number:	0.2839	
Flow Regime:	Subcritical	
Flow Area:	232.59	sq ft
Average Velocity:	1.84	ft/s
Maximum Velocity:	1.86	ft/s
Composite n:	0.0578	
Hydraulic Radius:	0.6	ft
Wetted Perimeter:	389.43	ft
Wetted Top Width:	389.40	ft
Critical Slope:	0.1272	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S29E–~~210~~ 590

Entellus™

File: T1S-R6W-S29E-New-mapping.dwg Date: 10/03/02



Normal Depth Results

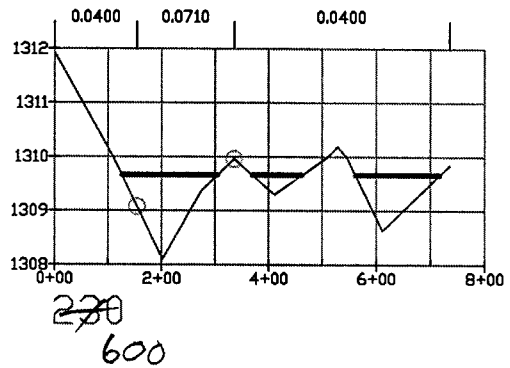
Cross-Section:	~~220~~ 595	
Elevation:	1268.47	ft MSL
Depth:	0.80	ft
Discharge:	430.00	cfs
Energy Gradient:	0.0101	ft/ft
Froude Number:	0.4412	
Flow Regime:	Subcritical	
Flow Area:	191.93	sq ft
Average Velocity:	2.20	ft/s
Maximum Velocity:	2.32	ft/s
Composite n:	0.045	
Hydraulic Radius:	0.41	ft
Wetted Perimeter:	470.97	ft
Wetted Top Width:	470.96	ft
Critical Slope:	0.078	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S29E–~~220~~ 595

Entellus™

File: T1S-R6W-S29E-New-mapping.dwg Date: 10/03/02



Normal Depth Results

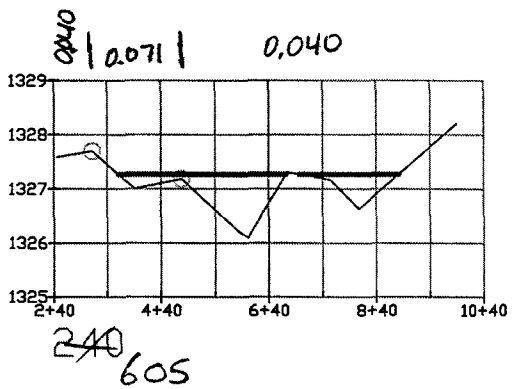
Cross-Section:	~~230~~ 600	
Elevation:	1309.66	ft MSL
Depth:	1.56	ft
Discharge:	430.00	cfs
Energy Gradient:	0.0101	ft/ft
Froude Number:	0.2662	
Flow Regime:	Subcritical	
Flow Area:	227.85	sq ft
Average Velocity:	1.90	ft/s
Maximum Velocity:	2.00	ft/s
Composite n:	0.0519	
Hydraulic Radius:	0.53	ft
Wetted Perimeter:	426.88	ft
Wetted Top Width:	426.83	ft
Critical Slope:	0.1412	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S29E ~~230~~ 600

Entellus™

File: T1S-R6W-S29E-New-mapping.dwg; Date: 10/03/02



Normal Depth Results

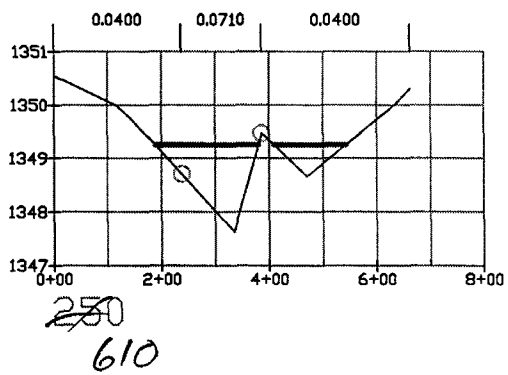
Cross-Section:	~~240~~ 605	
Elevation:	1327.27	ft MSL
Depth:	1.16	ft
Discharge:	380.00	cfs
Energy Gradient:	0.0101	ft/ft
Froude Number:	0.3338	
Flow Regime:	Subcritical	
Flow Area:	186.19	sq ft
Average Velocity:	2.01	ft/s
Maximum Velocity:	2.17	ft/s
Composite n:	0.0482	
Hydraulic Radius:	0.37	ft
Wetted Perimeter:	496.81	ft
Wetted Top Width:	496.79	ft
Critical Slope:	0.1448	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S29E–~~240~~ 605

Entellus™

File: T1S-R6W-S29E-New-mapping.dwg, Date: 10/03/02



Normal Depth Results

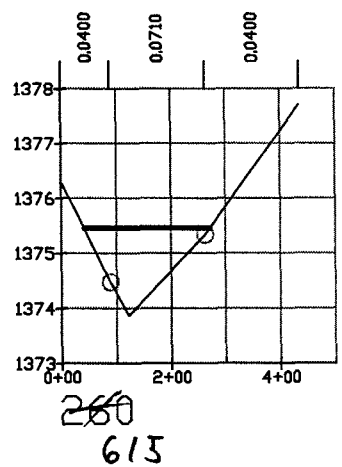
Cross-Section:	~~250~~ 610	
Elevation:	1349.25	ft MSL
Depth:	1.62	ft
Discharge:	380.00	cfs
Energy Gradient:	0.0101	ft/ft
Froude Number:	0.2693	
Flow Regime:	Subcritical	
Flow Area:	195.29	sq ft
Average Velocity:	1.98	ft/s
Maximum Velocity:	2.10	ft/s
Composite n:	0.0546	
Hydraulic Radius:	0.6	ft
Wetted Perimeter:	325.72	ft
Wetted Top Width:	325.67	ft
Critical Slope:	0.139	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S29E–~~250~~ 610

Entellus™

File: T1S-R6W-S29E-New-mapping.dwg Date: 10/03/02



Normal Depth Results

Cross-Section:	~~260~~ 615	
Elevation:	1375.46	ft MSL
Depth:	1.59	ft
Discharge:	380.00	cfs
Energy Gradient:	0.0101	ft/ft
Froude Number:	0.2841	
Flow Regime:	Subcritical	
Flow Area:	187.02	sq ft
Average Velocity:	2.05	ft/s
Maximum Velocity:	2.33	ft/s
Composite n:	0.0641	
Hydraulic Radius:	0.81	ft
Wetted Perimeter:	230.31	ft
Wetted Top Width:	230.28	ft
Critical Slope:	0.1251	ft/ft

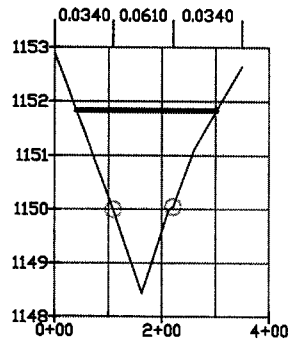
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S29E–~~260~~ 615

Entellus™

File: T1S-R6W-S29E-New-mapping.dwg Date: 10/03/02

T2N-R6W-S18E



~~20~~ 510

Normal Depth Results

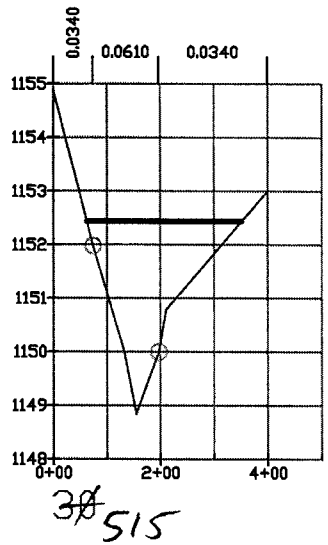
Cross-Section:	~~20~~ 510	
Elevation:	1151.83	ft MSL
Depth:	3.39	ft
Discharge:	1470.00	cfs
Energy Gradient:	0.0067	ft/ft
Froude Number:	0.3411	
Flow Regime:	Subcritical	
Flow Area:	412.51	sq ft
Average Velocity:	3.58	ft/s
Maximum Velocity:	3.74	ft/s
Composite n:	0.0465	
Hydraulic Radius:	1.58	ft
Wetted Perimeter:	261.42	ft
Wetted Top Width:	261.33	ft
Critical Slope:	0.0579	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18E–~~20~~ 510

Entellus™

File: T2N-K6W-S18E-Now-Mapping.dwg Date: 10/03/02



Normal Depth Results

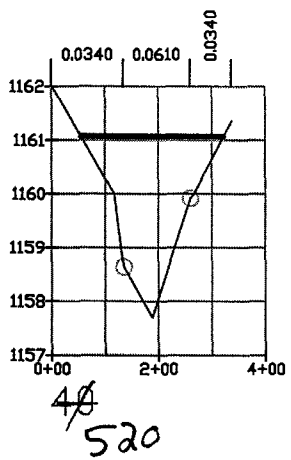
Cross-Section:	~~30~~ 515	
Elevation:	1152.44	ft MSL
Depth:	3.60	ft
Discharge:	1470.00	cfs
Energy Gradient:	0.0067	ft/ft
Froude Number:	0.3201	
Flow Regime:	Subcritical	
Flow Area:	426.65	sq ft
Average Velocity:	3.43	ft/s
Maximum Velocity:	3.46	ft/s
Composite n:	0.0464	
Hydraulic Radius:	1.47	ft
Wetted Perimeter:	289.37	ft
Wetted Top Width:	289.25	ft
Critical Slope:	0.067	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18E–~~30~~ 515

Entellus™

File: T2N-R6W-S18E-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

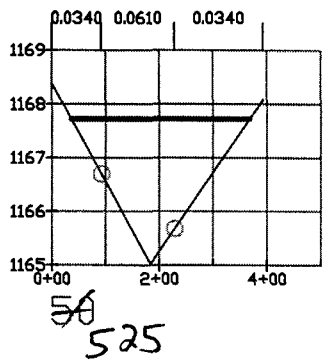
Cross-Section:	~~40~~ 520	
Elevation:	1161.08	ft MSL
Depth:	3.38	ft
Discharge:	1470.00	cfs
Energy Gradient:	0.0067	ft/ft
Froude Number:	0.3353	
Flow Regime:	Subcritical	
Flow Area:	420.57	sq ft
Average Velocity:	3.52	ft/s
Maximum Velocity:	3.72	ft/s
Composite n:	0.0475	
Hydraulic Radius:	1.57	ft
Wetted Perimeter:	267.91	ft
Wetted Top Width:	267.80	ft
Critical Slope:	0.0607	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18E–~~40~~ 520

Entellus™

File: T2N-R6W-S18E-New-Mapping.dwg; Date: 10/03/02



Normal Depth Results

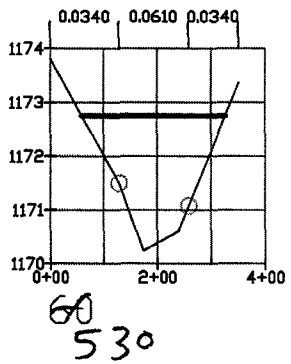
Cross-Section:	~~50~~ 525	
Elevation:	1167.72	ft MSL
Depth:	2.70	ft
Discharge:	1470.00	cfs
Energy Gradient:	0.0067	ft/ft
Froude Number:	0.351	
Flow Regime:	Subcritical	
Flow Area:	448.88	sq ft
Average Velocity:	3.29	ft/s
Maximum Velocity:	3.64	ft/s
Composite n:	0.046	
Hydraulic Radius:	1.35	ft
Wetted Perimeter:	332.07	ft
Wetted Top Width:	332.03	ft
Critical Slope:	0.0557	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18E–~~50~~ 525

Entellus™

File: T2N-R6W-S18E-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

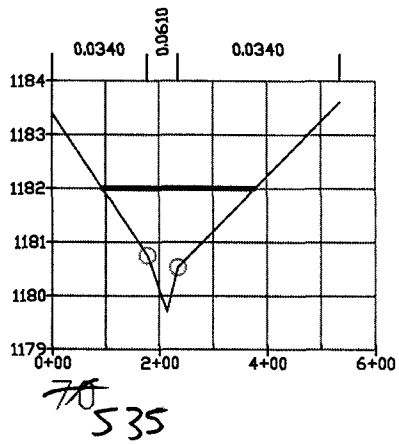
Cross-Section:	~~68~~ 530	
Elevation:	1172.75	ft MSL
Depth:	2.51	ft
Discharge:	1270.00	cfs
Energy Gradient:	0.0067	ft/ft
Froude Number:	0.3756	
Flow Regime:	Subcritical	
Flow Area:	375.89	sq ft
Average Velocity:	3.36	ft/s
Maximum Velocity:	3.76	ft/s
Composite n:	0.0461	
Hydraulic Radius:	1.4	ft
Wetted Perimeter:	267.80	ft
Wetted Top Width:	267.75	ft
Critical Slope:	0.0494	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18E–~~60~~ 530

Entellus™

File: T2N-K6W-S18E-New-Mapping.dwg; Date: 10/03/02



Normal Depth Results

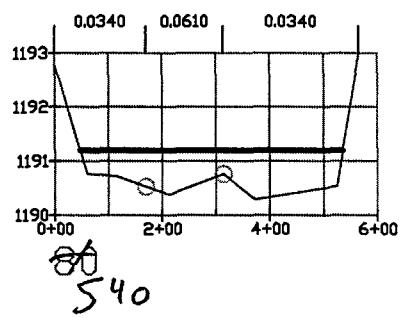
Cross-Section:	~~70~~ 535	
Elevation:	1182.00	ft MSL
Depth:	2.29	ft
Discharge:	750.00	cfs
Energy Gradient:	0.0067	ft/ft
Froude Number:	0.3362	
Flow Regime:	Subcritical	
Flow Area:	259.79	sq ft
Average Velocity:	2.88	ft/s
Maximum Velocity:	2.97	ft/s
Composite n:	0.0401	
Hydraulic Radius:	0.92	ft
Wetted Perimeter:	283.65	ft
Wetted Top Width:	283.60	ft
Critical Slope:	0.06	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18E–~~70~~ 535

Entellus™

File: T2N-R6W-S18E-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

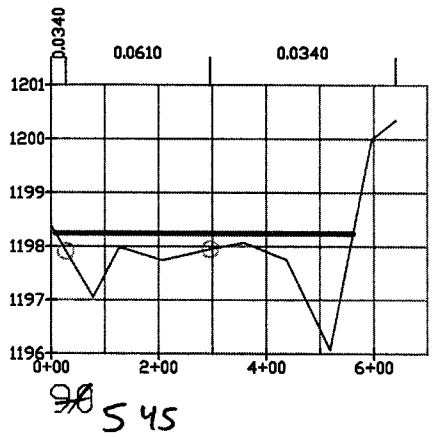
Cross-Section:	~~80~~ 540	
Elevation:	1191.20	ft MSL
Depth:	0.91	ft
Discharge:	750.00	cfs
Energy Gradient:	0.0067	ft/ft
Froude Number:	0.4377	
Flow Regime:	Subcritical	
Flow Area:	316.89	sq ft
Average Velocity:	2.36	ft/s
Maximum Velocity:	2.91	ft/s
Composite n:	0.0428	
Hydraulic Radius:	0.65	ft
Wetted Perimeter:	488.43	ft
Wetted Top Width:	488.40	ft
Critical Slope:	0.043	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18E–~~80~~ 540

Entellus™

File: T2N-R6W-S18E-New-Mapping.dwg, Date: 10/03/02



Normal Depth Results

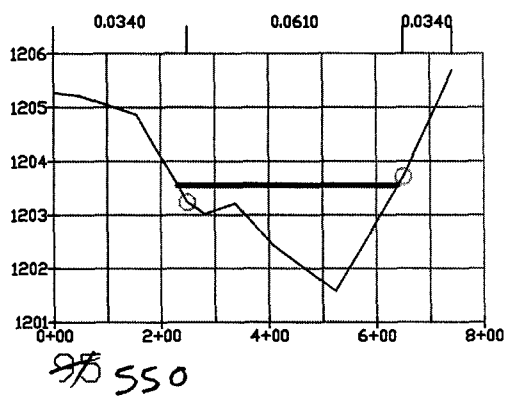
Cross-Section:	~~90~~ 545	
Elevation:	1198.24	ft MSL
Depth:	2.17	ft
Discharge:	750.00	cfs
Energy Gradient:	0.0067	ft/ft
Froude Number:	0.265	
Flow Regime:	Subcritical	
Flow Area:	338.32	sq ft
Average Velocity:	2.23	ft/s
Maximum Velocity:	2.92	ft/s
Composite n:	0.048	
Hydraulic Radius:	0.61	ft
Wetted Perimeter:	553.54	ft
Wetted Top Width:	553.45	ft
Critical Slope:	0.1404	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18E–~~90~~ 545

Entellus™

File: T2N-R6W-S18E-New-Mapping.dwg; Date: 10/03/02



Normal Depth Results

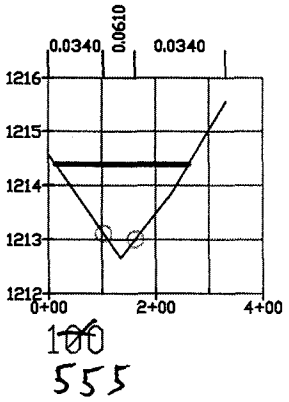
Cross-Section:	~~95~~ 550	
Elevation:	1203.55	ft MSL
Depth:	1.97	ft
Discharge:	750.00	cfs
Energy Gradient:	0.0067	ft/ft
Froude Number:	0.2452	
Flow Regime:	Subcritical	
Flow Area:	384.24	sq ft
Average Velocity:	1.96	ft/s
Maximum Velocity:	1.97	ft/s
Composite n:	0.0599	
Hydraulic Radius:	0.94	ft
Wetted Perimeter:	408.72	ft
Wetted Top Width:	408.69	ft
Critical Slope:	0.1113	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18E–~~95~~ 550

Entellus™

File: T2N-R6W-S18E-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

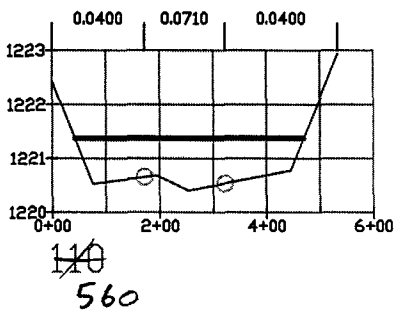
Cross-Section:	~~100~~ 555	
Elevation:	1214.39	ft MSL
Depth:	1.73	ft
Discharge:	750.00	cfs
Energy Gradient:	0.01	ft/ft
Froude Number:	0.4513	
Flow Regime:	Subcritical	
Flow Area:	222.51	sq ft
Average Velocity:	3.36	ft/s
Maximum Velocity:	3.58	ft/s
Composite n:	0.0412	
Hydraulic Radius:	0.89	ft
Wetted Perimeter:	249.27	ft
Wetted Top Width:	249.25	ft
Critical Slope:	0.0496	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18E–~~100~~ 555

Entellus™

File: T2N-R6W-S18E-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

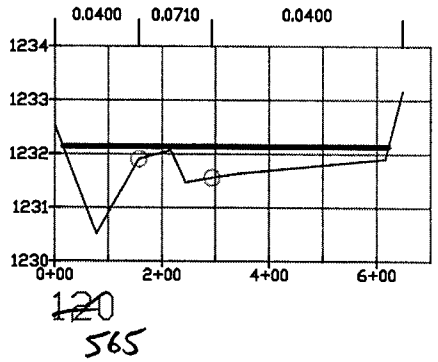
Cross-Section:	~~110~~ 560	
Elevation:	1221.37	ft MSL
Depth:	0.96	ft
Discharge:	750.00	cfs
Energy Gradient:	0.01	ft/ft
Froude Number:	0.4335	
Flow Regime:	Subcritical	
Flow Area:	310.64	sq ft
Average Velocity:	2.44	ft/s
Maximum Velocity:	2.90	ft/s
Composite n:	0.0519	
Hydraulic Radius:	0.73	ft
Wetted Perimeter:	427.91	ft
Wetted Top Width:	427.89	ft
Critical Slope:	0.0577	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18E–~~110~~ 560

Entellus™

File: T2N-R6W-S18E-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

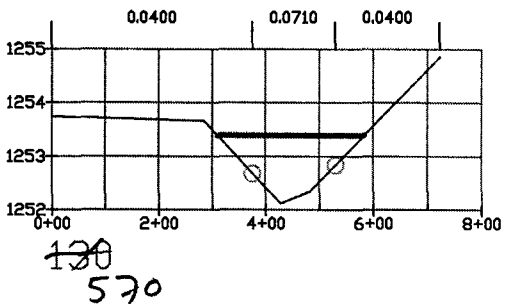
Cross-Section:	~~120~~ 565	
Elevation:	1232.14	ft MSL
Depth:	1.63	ft
Discharge:	750.00	cfs
Energy Gradient:	0.01	ft/ft
Froude Number:	0.3427	
Flow Regime:	Subcritical	
Flow Area:	302.09	sq ft
Average Velocity:	2.42	ft/s
Maximum Velocity:	3.42	ft/s
Composite n:	0.0478	
Hydraulic Radius:	0.5	ft
Wetted Perimeter:	606.54	ft
Wetted Top Width:	606.50	ft
Critical Slope:	0.1371	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18E–~~120~~ 565

Entellus™

File: T2N-R6W-S18E-New-Mapping.dwg, Date: 10/03/02



Normal Depth Results

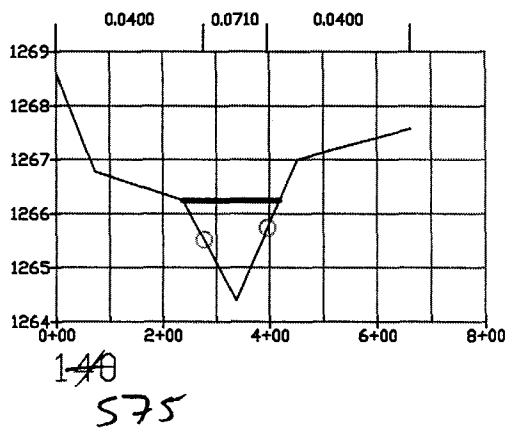
Cross-Section:	~~130~~ 570	
Elevation:	1253.39	ft MSL
Depth:	1.27	ft
Discharge:	390.00	cfs
Energy Gradient:	0.01	ft/ft
Froude Number:	0.3174	
Flow Regime:	Subcritical	
Flow Area:	191.82	sq ft
Average Velocity:	2.03	ft/s
Maximum Velocity:	2.09	ft/s
Composite n:	0.0585	
Hydraulic Radius:	0.7	ft
Wetted Perimeter:	273.48	ft
Wetted Top Width:	273.47	ft
Critical Slope:	0.1015	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18E–1~~30~~ 570

Entellus™

File: T2N-R6W-S18E-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

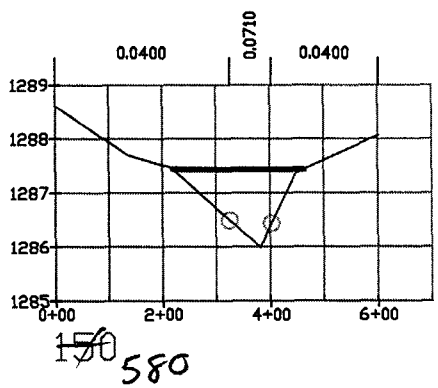
Cross-Section:	~~140~~ 575	
Elevation:	1266.24	ft MSL
Depth:	1.84	ft
Discharge:	390.00	cfs
Energy Gradient:	0.01	ft/ft
Froude Number:	0.304	
Flow Regime:	Subcritical	
Flow Area:	166.51	sq ft
Average Velocity:	2.33	ft/s
Maximum Velocity:	2.41	ft/s
Composite n:	0.0614	
Hydraulic Radius:	0.92	ft
Wetted Perimeter:	180.48	ft
Wetted Top Width:	180.44	ft
Critical Slope:	0.1122	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18E–~~140~~ 575

Entellus™

File: T2N-k6W-S18E-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

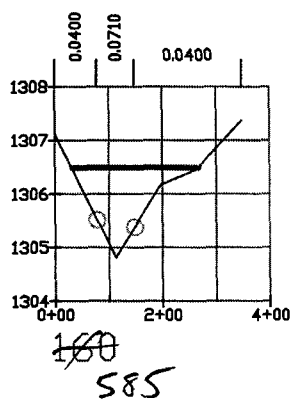
Cross-Section:	~~150~~ 580	
Elevation:	1287.44	ft MSL
Depth:	1.45	ft
Discharge:	390.00	cfs
Energy Gradient:	0.01	ft/ft
Froude Number:	0.3394	
Flow Regime:	Subcritical	
Flow Area:	168.40	sq ft
Average Velocity:	2.29	ft/s
Maximum Velocity:	2.37	ft/s
Composite n:	0.0508	
Hydraulic Radius:	0.69	ft
Wetted Perimeter:	244.89	ft
Wetted Top Width:	244.86	ft
Critical Slope:	0.0894	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18E–~~150~~ 580

Entellus™

File: T2N-R6W-S18E-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

Cross-Section:	~~160~~ 585	
Elevation:	1306.49	ft MSL
Depth:	1.68	ft
Discharge:	390.00	cfs
Energy Gradient:	0.01	ft/ft
Froude Number:	0.3235	
Flow Regime:	Subcritical	
Flow Area:	163.96	sq ft
Average Velocity:	2.37	ft/s
Maximum Velocity:	2.58	ft/s
Composite n:	0.0501	
Hydraulic Radius:	0.7	ft
Wetted Perimeter:	235.37	ft
Wetted Top Width:	235.34	ft
Critical Slope:	0.099	ft/ft

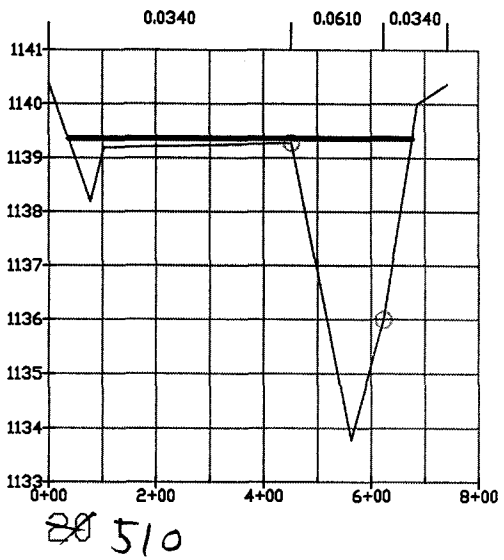
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18E–~~160~~ 585

Entellus™

File: T2N-R6W-S18E-New-Mapping.dwg Date: 10/03/02

T2N-R6W-S18W



Normal Depth Results

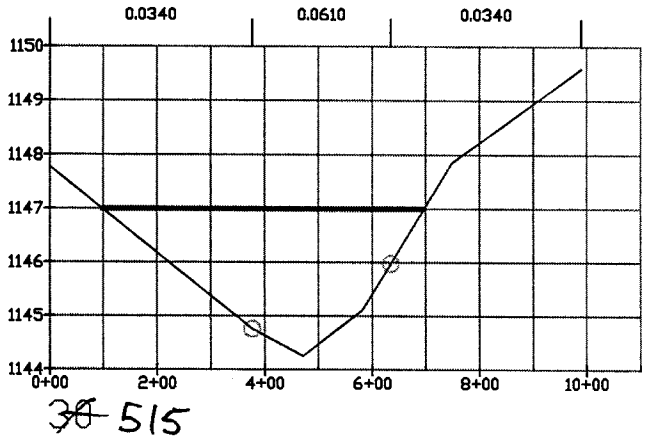
Cross-Section:	~~20~~ 510	
Elevation:	1139.36	ft MSL
Depth:	5.58	ft
Discharge:	3030.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.2982	
Flow Regime:	Subcritical	
Flow Area:	758.20	sq ft
Average Velocity:	4.00	ft/s
Maximum Velocity:	4.79	ft/s
Composite n:	0.042	
Hydraulic Radius:	1.19	ft
Wetted Perimeter:	639.82	ft
Wetted Top Width:	639.50	ft
Critical Slope:	0.1141	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18W–~~20~~ 510

Entellus™

File: T2N-R6W-S18W-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

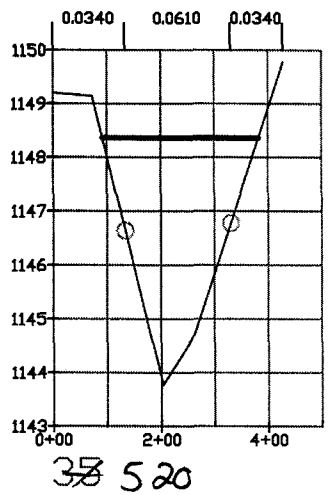
Cross-Section:	~~30~~ 515	
Elevation:	1147.00	ft MSL
Depth:	2.75	ft
Discharge:	3030.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.3533	
Flow Regime:	Subcritical	
Flow Area:	912.00	sq ft
Average Velocity:	3.32	ft/s
Maximum Velocity:	3.66	ft/s
Composite n:	0.0465	
Hydraulic Radius:	1.52	ft
Wetted Perimeter:	598.92	ft
Wetted Top Width:	598.89	ft
Critical Slope:	0.0493	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18W–~~30~~ 515

Entellus™

File: T2N-R6W-S18W-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

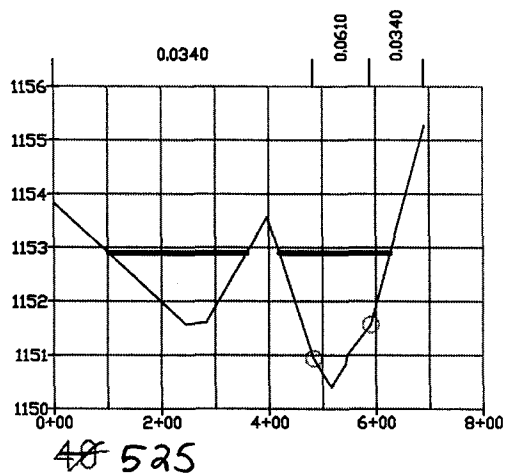
Cross-Section:	~~35~~ 520	
Elevation:	1148.36	ft MSL
Depth:	4.59	ft
Discharge:	2910.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.3324	
Flow Regime:	Subcritical	
Flow Area:	719.95	sq ft
Average Velocity:	4.04	ft/s
Maximum Velocity:	4.16	ft/s
Composite n:	0.053	
Hydraulic Radius:	2.48	ft
Wetted Perimeter:	290.66	ft
Wetted Top Width:	290.50	ft
Critical Slope:	0.056	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18W–~~35~~520

Entellus™

File: T2N-R6W-S18W-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

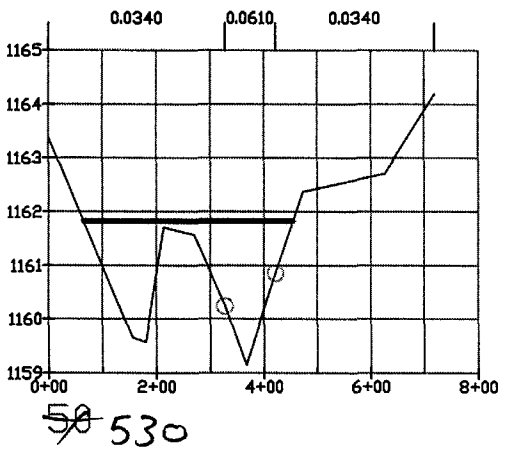
Cross-Section:	~~40~~ 525	
Elevation:	1152.90	ft MSL
Depth:	2.50	ft
Discharge:	1440.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.327	
Flow Regime:	Subcritical	
Flow Area:	491.13	sq ft
Average Velocity:	2.93	ft/s
Maximum Velocity:	2.98	ft/s
Composite n:	0.0409	
Hydraulic Radius:	1.06	ft
Wetted Perimeter:	463.90	ft
Wetted Top Width:	463.81	ft
Critical Slope:	0.0562	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18W–~~40~~ 525

Entellus™

File: T2N-R6W-S18W-New-Mapping.dwg, Date: 10/03/02



Normal Depth Results

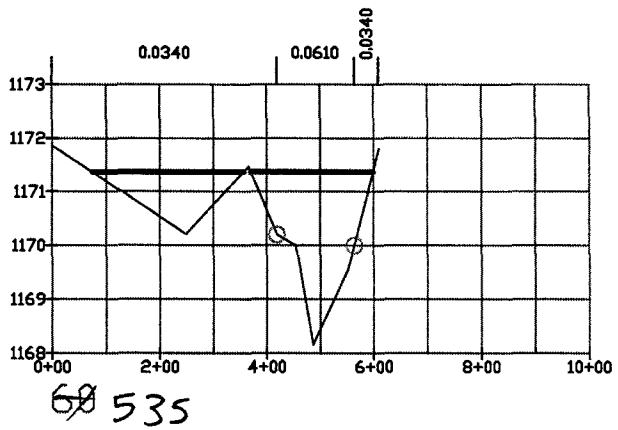
Cross-Section:	~~50~~ 530	
Elevation:	1161.83	ft MSL
Depth:	2.68	ft
Discharge:	1440.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.3403	
Flow Regime:	Subcritical	
Flow Area:	455.66	sq ft
Average Velocity:	3.14	ft/s
Maximum Velocity:	3.33	ft/s
Composite n:	0.0413	
Hydraulic Radius:	1.17	ft
Wetted Perimeter:	389.73	ft
Wetted Top Width:	389.56	ft
Critical Slope:	0.0538	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18W–~~50~~530

Entellus™

File: T2N-R6W-S18W-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

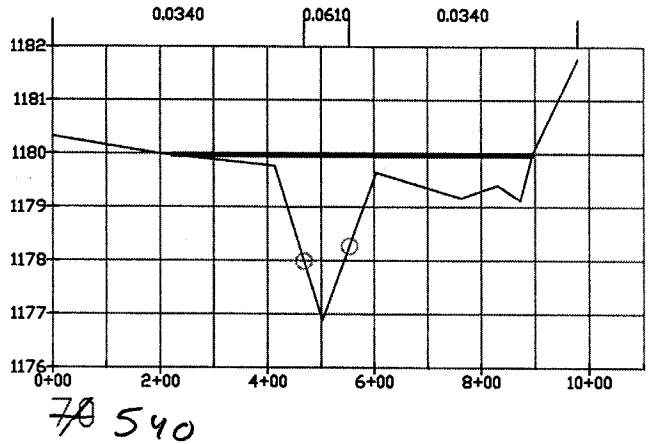
Cross-Section:	~~60~~ 535	
Elevation:	1171.37	ft MSL
Depth:	3.21	ft
Discharge:	1440.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.2738	
Flow Regime:	Subcritical	
Flow Area:	517.56	sq ft
Average Velocity:	2.79	ft/s
Maximum Velocity:	3.08	ft/s
Composite n:	0.0425	
Hydraulic Radius:	1.01	ft
Wetted Perimeter:	511.05	ft
Wetted Top Width:	510.93	ft
Critical Slope:	0.0826	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18W–~~60~~ 535

Entellus™

File: T2N-R6W-S18W-New-Mapping.dwg; Date: 10/03/02



Normal Depth Results

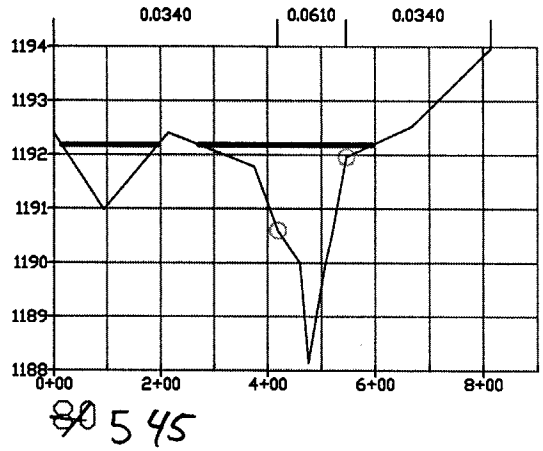
Cross-Section:	~~70~~ 540	
Elevation:	1179.97	ft MSL
Depth:	3.09	ft
Discharge:	1440.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.2807	
Flow Regime:	Subcritical	
Flow Area:	514.18	sq ft
Average Velocity:	2.78	ft/s
Maximum Velocity:	3.44	ft/s
Composite n:	0.0379	
Hydraulic Radius:	0.77	ft
Wetted Perimeter:	671.63	ft
Wetted Top Width:	671.52	ft
Critical Slope:	0.092	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18W–~~70~~ 540

Entellus™

File: T2N-R6W-S18W-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

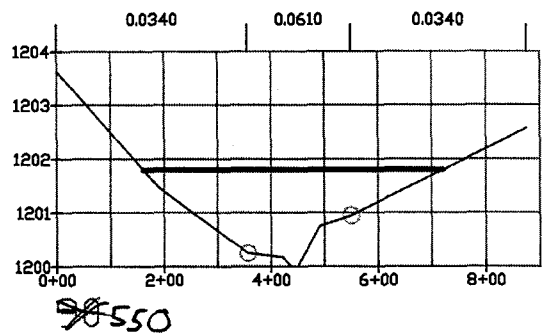
Cross-Section:	~~80~~ 545	
Elevation:	1192.18	ft MSL
Depth:	4.04	ft
Discharge:	1440.00	cfs
Energy Gradient:	0.008	ft/ft
Froude Number:	0.279	
Flow Regime:	Subcritical	
Flow Area:	452.50	sq ft
Average Velocity:	3.19	ft/s
Maximum Velocity:	3.63	ft/s
Composite n:	0.0416	
Hydraulic Radius:	0.9	ft
Wetted Perimeter:	503.96	ft
Wetted Top Width:	503.71	ft
Critical Slope:	0.1172	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18W–~~80~~ 545

Entellus™

File: T2N-R6W-S18W-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

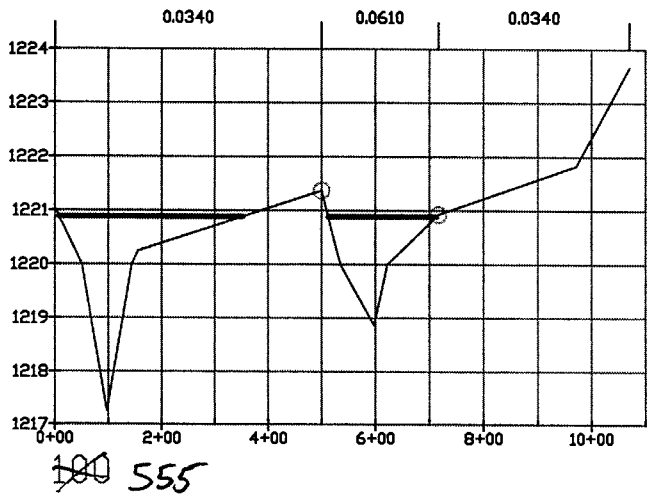
Cross-Section:	~~90~~ 550	
Elevation:	1201.80	ft MSL
Depth:	1.80	ft
Discharge:	1440.00	cfs
Energy Gradient:	0.008	ft/ft
Froude Number:	0.3758	
Flow Regime:	Subcritical	
Flow Area:	503.14	sq ft
Average Velocity:	2.88	ft/s
Maximum Velocity:	3.46	ft/s
Composite n:	0.0442	
Hydraulic Radius:	0.9	ft
Wetted Perimeter:	560.45	ft
Wetted Top Width:	560.43	ft
Critical Slope:	0.059	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18W–~~90~~ 550

Entellus™

File: T2N-R6W-S18W-New-Mapping.dwg, Date: 10/03/02



Normal Depth Results

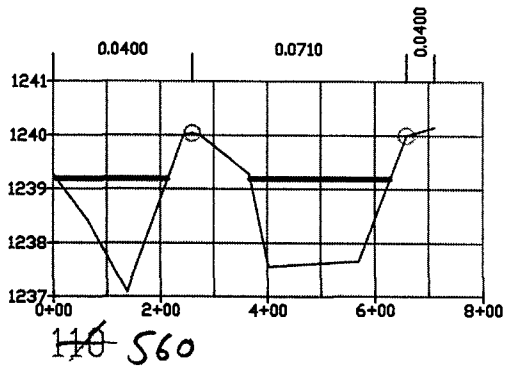
Cross-Section:	~~100~~ 555	
Elevation:	1220.89	ft MSL
Depth:	3.63	ft
Discharge:	1440.00	cfs
Energy Gradient:	0.008	ft/ft
Froude Number:	0.278	
Flow Regime:	Subcritical	
Flow Area:	479.34	sq ft
Average Velocity:	3.01	ft/s
Maximum Velocity:	3.59	ft/s
Composite n:	0.0448	
Hydraulic Radius:	0.88	ft
Wetted Perimeter:	545.08	ft
Wetted Top Width:	544.85	ft
Critical Slope:	0.1257	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18W–~~100~~555

Entellus™

File: T2N-R6W-S18W-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

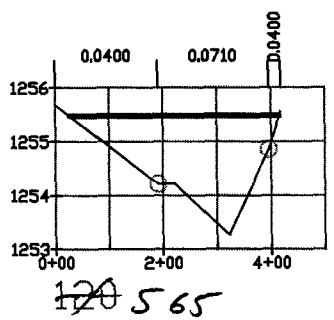
Cross-Section:	~~110~~ 560	
Elevation:	1239.19	ft MSL
Depth:	2.10	ft
Discharge:	1440.00	cfs
Energy Gradient:	0.008	ft/ft
Froude Number:	0.3217	
Flow Regime:	Subcritical	
Flow Area:	544.39	sq ft
Average Velocity:	2.65	ft/s
Maximum Velocity:	3.33	ft/s
Composite n:	0.0582	
Hydraulic Radius:	1.16	ft
Wetted Perimeter:	467.78	ft
Wetted Top Width:	467.67	ft
Critical Slope:	0.0845	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18W–~~110~~ 560

Entellus™

File: T2N-R6W-S18W-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

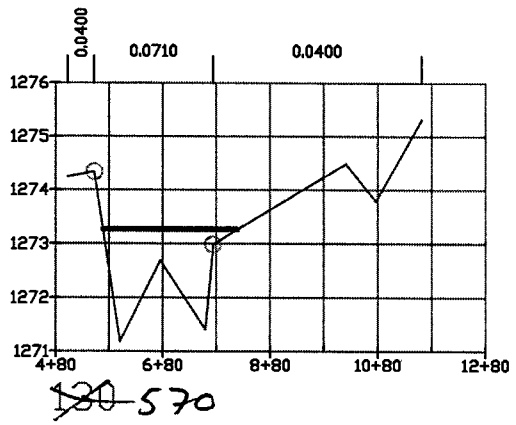
Cross-Section:	~~124~~ 565	
Elevation:	1255.48	ft MSL
Depth:	2.21	ft
Discharge:	1050.00	cfs
Energy Gradient:	0.008	ft/ft
Froude Number:	0.2922	
Flow Regime:	Subcritical	
Flow Area:	426.45	sq ft
Average Velocity:	2.48	ft/s
Maximum Velocity:	2.51	ft/s
Composite n:	0.0574	
Hydraulic Radius:	1.1	ft
Wetted Perimeter:	389.04	ft
Wetted Top Width:	389.01	ft
Critical Slope:	0.0932	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18W–~~120~~ 565

Entellus™

File: T2N-R6W-S18W-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

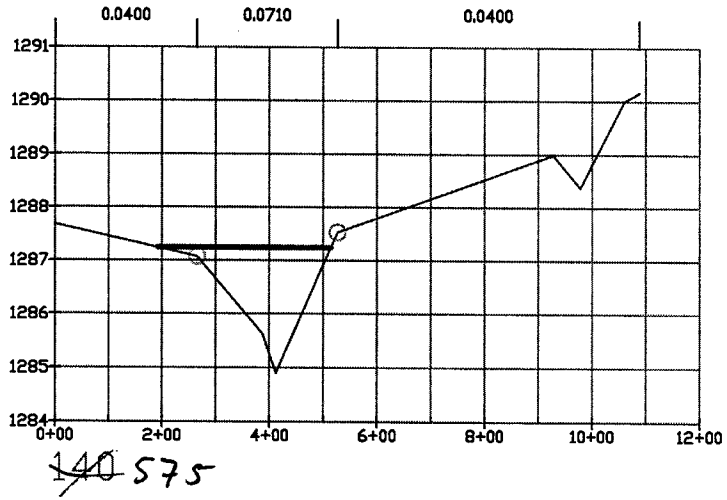
Cross-Section:	~~130~~ 570	
Elevation:	1273.27	ft MSL
Depth:	2.09	ft
Discharge:	690.00	cfs
Energy Gradient:	0.0128	ft/ft
Froude Number:	0.3269	
Flow Regime:	Subcritical	
Flow Area:	257.50	sq ft
Average Velocity:	2.67	ft/s
Maximum Velocity:	2.71	ft/s
Composite n:	0.0659	
Hydraulic Radius:	1.02	ft
Wetted Perimeter:	251.30	ft
Wetted Top Width:	251.12	ft
Critical Slope:	0.1273	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18W–~~130~~ 570

Entellus™

File: T2N-R6W-S18W-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

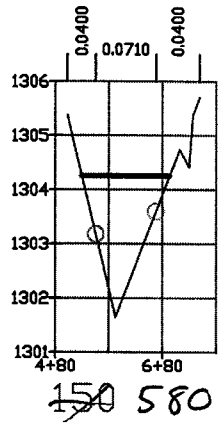
Cross-Section:	~~140~~ 575	
Elevation:	1287.25	ft MSL
Depth:	2.35	ft
Discharge:	690.00	cfs
Energy Gradient:	0.0123	ft/ft
Froude Number:	0.2808	
Flow Regime:	Subcritical	
Flow Area:	282.84	sq ft
Average Velocity:	2.46	ft/s
Maximum Velocity:	2.50	ft/s
Composite n:	0.0646	
Hydraulic Radius:	0.88	ft
Wetted Perimeter:	321.75	ft
Wetted Top Width:	321.71	ft
Critical Slope:	0.1687	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18W–~~140~~ 575

Entellus™

File: T2N-R6W-S18W-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

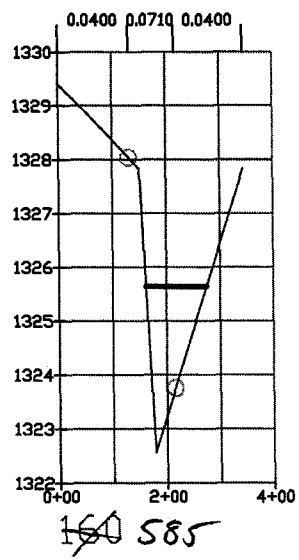
Cross-Section:	~~150~~ 580	
Elevation:	1304.26	ft MSL
Depth:	2.61	ft
Discharge:	690.00	cfs
Energy Gradient:	0.0123	ft/ft
Froude Number:	0.3517	
Flow Regime:	Subcritical	
Flow Area:	214.13	sq ft
Average Velocity:	3.23	ft/s
Maximum Velocity:	3.32	ft/s
Composite n:	0.0621	
Hydraulic Radius:	1.3	ft
Wetted Perimeter:	164.21	ft
Wetted Top Width:	164.13	ft
Critical Slope:	0.1024	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18W–~~150~~ 580

Entellus™

File: T2N-R6W-S18W-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

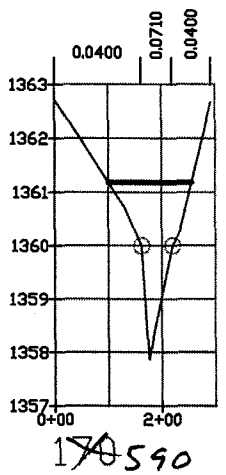
Cross-Section:	~~160~~ 585	
Elevation:	1325.64	ft MSL
Depth:	3.08	ft
Discharge:	690.00	cfs
Energy Gradient:	0.0123	ft/ft
Froude Number:	0.3969	
Flow Regime:	Subcritical	
Flow Area:	174.54	sq ft
Average Velocity:	3.93	ft/s
Maximum Velocity:	3.97	ft/s
Composite n:	0.056	
Hydraulic Radius:	1.54	ft
Wetted Perimeter:	113.52	ft
Wetted Top Width:	113.19	ft
Critical Slope:	0.0789	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18W–~~160~~ 585

Entellus™

File: T2N-R6W-S18W-New-Mapping.dwg; Date: 10/03/02



Normal Depth Results

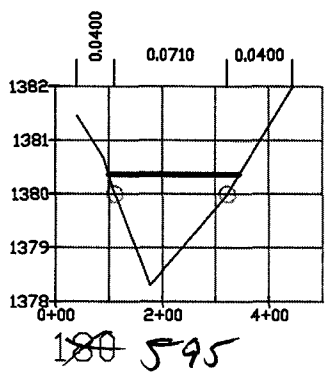
Cross-Section:	~~170~~ 590	
Elevation:	1361.18	ft MSL
Depth:	3.31	ft
Discharge:	690.00	cfs
Energy Gradient:	0.0123	ft/ft
Froude Number:	0.3561	
Flow Regime:	Subcritical	
Flow Area:	187.68	sq ft
Average Velocity:	3.66	ft/s
Maximum Velocity:	3.98	ft/s
Composite n:	0.0526	
Hydraulic Radius:	1.2	ft
Wetted Perimeter:	155.91	ft
Wetted Top Width:	155.67	ft
Critical Slope:	0.1037	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18W–~~170~~ 590

Entellus™

File: T2N-R6W-S18W-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

Cross-Section:	~~190~~ 595	
Elevation:	1380.37	ft MSL
Depth:	2.07	ft
Discharge:	690.00	cfs
Energy Gradient:	0.0123	ft/ft
Froude Number:	0.3208	
Flow Regime:	Subcritical	
Flow Area:	263.76	sq ft
Average Velocity:	2.62	ft/s
Maximum Velocity:	2.65	ft/s
Composite n:	0.0672	
Hydraulic Radius:	1.07	ft
Wetted Perimeter:	245.41	ft
Wetted Top Width:	245.37	ft
Critical Slope:	0.1228	ft/ft

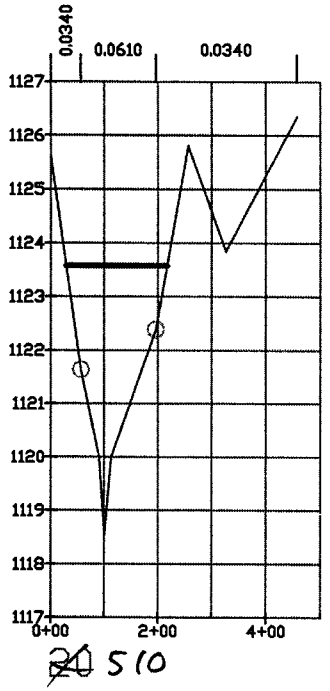
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S18W–~~180~~ 595

Entellus™

File: T2N-R6W-S18W-New-Mapping.dwg Date: 10/03/02

T2N-R6W-S19



Normal Depth Results

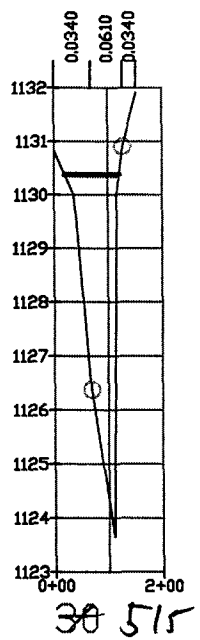
Cross-Section:	~~20~~ 510	
Elevation:	1123.58	ft MSL
Depth:	5.04	ft
Discharge:	1650.00	cfs
Energy Gradient:	0.0066	ft/ft
Froude Number:	0.302	
Flow Regime:	Subcritical	
Flow Area:	429.05	sq ft
Average Velocity:	3.86	ft/s
Maximum Velocity:	3.93	ft/s
Composite n:	0.0547	
Hydraulic Radius:	2.27	ft
Wetted Perimeter:	188.68	ft
Wetted Top Width:	188.31	ft
Critical Slope:	0.0731	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S19–~~20~~ 510

Entellus™

File: T2N-R6W-S19-New-Mapping.dwg; Date: 10/03/02



Normal Depth Results

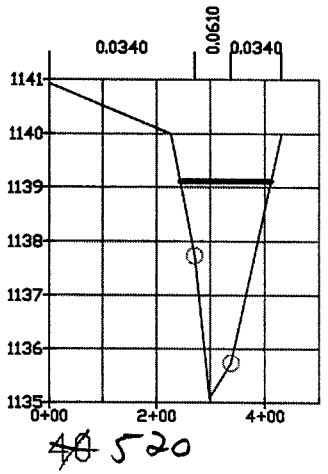
Cross-Section:	~~30~~ 515	
Elevation:	1130.38	ft MSL
Depth:	6.72	ft
Discharge:	1650.00	cfs
Energy Gradient:	0.0066	ft/ft
Froude Number:	0.3537	
Flow Regime:	Subcritical	
Flow Area:	317.32	sq ft
Average Velocity:	5.20	ft/s
Maximum Velocity:	5.37	ft/s
Composite n:	0.0493	
Hydraulic Radius:	3.06	ft
Wetted Perimeter:	103.61	ft
Wetted Top Width:	100.47	ft
Critical Slope:	0.0531	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S19–~~30~~ 515

Entellus™

File: T2N-R6W-S19-Now-Mapping.dwg, Date: 10/03/02



Normal Depth Results

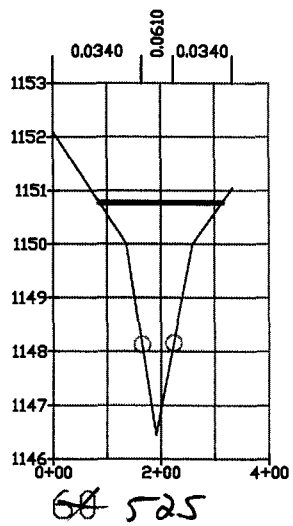
Cross-Section:	~~40~~ 520	
Elevation:	1139.11	ft MSL
Depth:	4.03	ft
Discharge:	1650.00	cfs
Energy Gradient:	0.0066	ft/ft
Froude Number:	0.3976	
Flow Regime:	Subcritical	
Flow Area:	364.28	sq ft
Average Velocity:	4.53	ft/s
Maximum Velocity:	5.04	ft/s
Composite n:	0.0458	
Hydraulic Radius:	2.17	ft
Wetted Perimeter:	167.88	ft
Wetted Top Width:	167.63	ft
Critical Slope:	0.0436	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S19–~~40~~ 520

Entellus™

File: T2N-R6W-S19-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

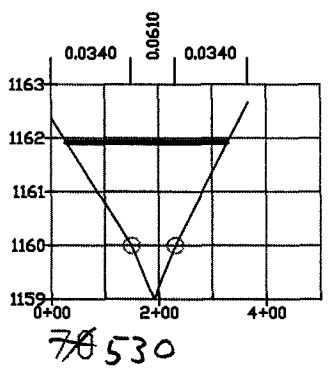
Cross-Section:	~~60~~ 525	
Elevation:	1150.78	ft MSL
Depth:	4.33	ft
Discharge:	1430.00	cfs
Energy Gradient:	0.0066	ft/ft
Froude Number:	0.341	
Flow Regime:	Subcritical	
Flow Area:	355.24	sq ft
Average Velocity:	4.02	ft/s
Maximum Velocity:	4.55	ft/s
Composite n:	0.0417	
Hydraulic Radius:	1.55	ft
Wetted Perimeter:	228.72	ft
Wetted Top Width:	228.51	ft
Critical Slope:	0.0608	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S19–~~60~~ 525

Entellus™

File: T2N-R6W-S19-New-Mapping.dwg, Date: 10/03/02



Normal Depth Results

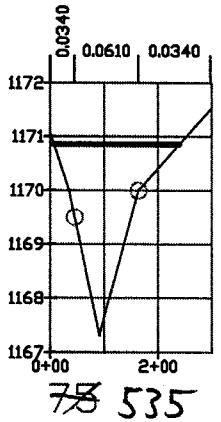
Cross-Section:	~~70~~ 530	
Elevation:	1161.92	ft MSL
Depth:	2.92	ft
Discharge:	1430.00	cfs
Energy Gradient:	0.0066	ft/ft
Froude Number:	0.3628	
Flow Regime:	Subcritical	
Flow Area:	406.53	sq ft
Average Velocity:	3.52	ft/s
Maximum Velocity:	3.58	ft/s
Composite n:	0.0421	
Hydraulic Radius:	1.36	ft
Wetted Perimeter:	299.70	ft
Wetted Top Width:	299.64	ft
Critical Slope:	0.05	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S19–~~70~~ 530

Entellus™

File: T2N-R6W-S19-New-Mapping.dwg; Date: 10/03/02



Normal Depth Results

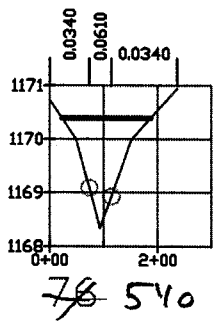
Cross-Section:	~~75~~ 535	
Elevation:	1170.85	ft MSL
Depth:	3.54	ft
Discharge:	1070.00	cfs
Energy Gradient:	0.0066	ft/ft
Froude Number:	0.3051	
Flow Regime:	Subcritical	
Flow Area:	328.38	sq ft
Average Velocity:	3.25	ft/s
Maximum Velocity:	3.45	ft/s
Composite n:	0.0487	
Hydraulic Radius:	1.41	ft
Wetted Perimeter:	233.02	ft
Wetted Top Width:	232.89	ft
Critical Slope:	0.0771	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S19–~~75~~ 535

Entellus™

File: T2N-R6W-S19-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

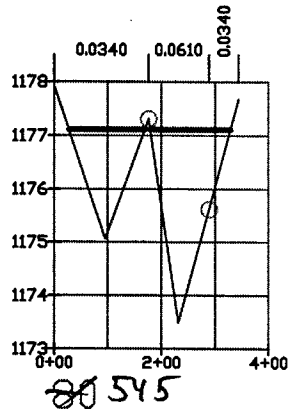
Cross-Section:	~~76~~ 540	
Elevation:	1170.39	ft MSL
Depth:	2.05	ft
Discharge:	360.00	cfs
Energy Gradient:	0.0066	ft/ft
Froude Number:	0.3217	
Flow Regime:	Subcritical	
Flow Area:	137.77	sq ft
Average Velocity:	2.62	ft/s
Maximum Velocity:	2.84	ft/s
Composite n:	0.0415	
Hydraulic Radius:	0.84	ft
Wetted Perimeter:	164.12	ft
Wetted Top Width:	164.06	ft
Critical Slope:	0.0647	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S19–~~76~~ 540

Entellus™

File: T2N-R6W-S19-New-Mapping.dwg, Date: 10/03/02



Normal Depth Results

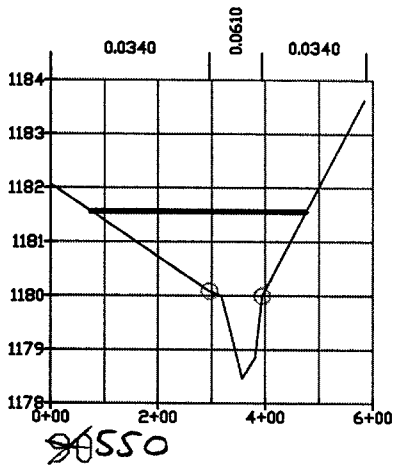
Cross-Section:	~~80~~ 545	
Elevation:	1177.11	ft MSL
Depth:	3.62	ft
Discharge:	1430.00	cfs
Energy Gradient:	0.0066	ft/ft
Froude Number:	0.3177	
Flow Regime:	Subcritical	
Flow Area:	416.89	sq ft
Average Velocity:	3.41	ft/s
Maximum Velocity:	3.62	ft/s
Composite n:	0.0451	
Hydraulic Radius:	1.43	ft
Wetted Perimeter:	292.07	ft
Wetted Top Width:	291.82	ft
Critical Slope:	0.0664	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S19–~~80~~ 545

Entellus™

File: T2N-R6W-S19-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

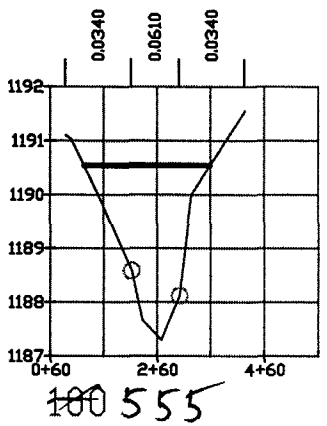
Cross-Section:	~~90~~ 550	
Elevation:	1181.56	ft MSL
Depth:	3.09	ft
Discharge:	1430.00	cfs
Energy Gradient:	0.0066	ft/ft
Froude Number:	0.3208	
Flow Regime:	Subcritical	
Flow Area:	446.96	sq ft
Average Velocity:	3.17	ft/s
Maximum Velocity:	3.40	ft/s
Composite n:	0.0414	
Hydraulic Radius:	1.12	ft
Wetted Perimeter:	400.77	ft
Wetted Top Width:	400.67	ft
Critical Slope:	0.0664	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S19–~~90~~ 550

Entellus™

File: T2N-R6W-S19-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

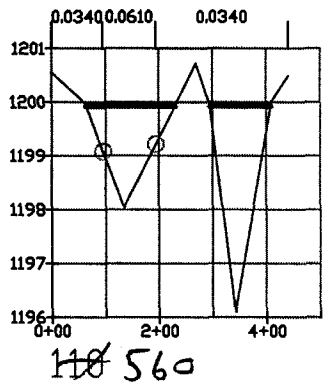
Cross-Section:	~~100~~ 555	
Elevation:	1190.55	ft MSL
Depth:	3.25	ft
Discharge:	1430.00	cfs
Energy Gradient:	0.0066	ft/ft
Froude Number:	0.3667	
Flow Regime:	Subcritical	
Flow Area:	381.46	sq ft
Average Velocity:	3.74	ft/s
Maximum Velocity:	3.97	ft/s
Composite n:	0.0452	
Hydraulic Radius:	1.62	ft
Wetted Perimeter:	236.14	ft
Wetted Top Width:	236.01	ft
Critical Slope:	0.0507	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S19–~~T00~~ 555

Entellus™

File: T2N-R6W-S19-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

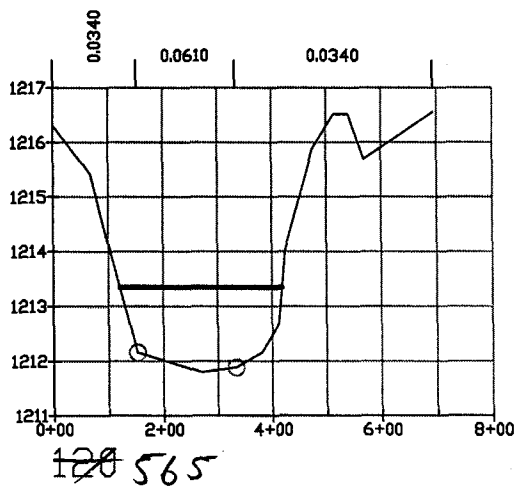
Cross-Section:	~~110~~ 560	
Elevation:	1199.93	ft MSL
Depth:	3.83	ft
Discharge:	1430.00	cfs
Energy Gradient:	0.0066	ft/ft
Froude Number:	0.3452	
Flow Regime:	Subcritical	
Flow Area:	373.10	sq ft
Average Velocity:	3.82	ft/s
Maximum Velocity:	4.74	ft/s
Composite n:	0.0444	
Hydraulic Radius:	1.34	ft
Wetted Perimeter:	279.36	ft
Wetted Top Width:	279.05	ft
Critical Slope:	0.0745	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S19–~~110~~ 560

Entellus™

File: T2N-R6W-S19-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

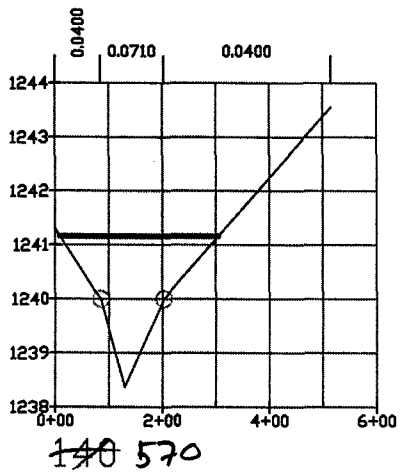
Cross-Section:	~~120~~ 565	
Elevation:	1213.35	ft MSL
Depth:	1.55	ft
Discharge:	1050.00	cfs
Energy Gradient:	0.0066	ft/ft
Froude Number:	0.4034	
Flow Regime:	Subcritical	
Flow Area:	368.93	sq ft
Average Velocity:	2.83	ft/s
Maximum Velocity:	3.80	ft/s
Composite n:	0.0513	
Hydraulic Radius:	1.24	ft
Wetted Perimeter:	297.92	ft
Wetted Top Width:	297.85	ft
Critical Slope:	0.0443	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S19–~~120~~ 565

Entellus™

File: T2N-R6W-S19-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

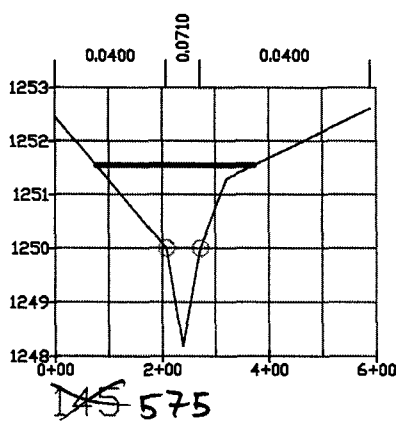
Cross-Section:	~~140~~ 570	
Elevation:	1241.16	ft MSL
Depth:	2.79	ft
Discharge:	1050.00	cfs
Energy Gradient:	0.0102	ft/ft
Froude Number:	0.3294	
Flow Regime:	Subcritical	
Flow Area:	336.25	sq ft
Average Velocity:	3.12	ft/s
Maximum Velocity:	3.34	ft/s
Composite n:	0.0534	
Hydraulic Radius:	1.14	ft
Wetted Perimeter:	295.76	ft
Wetted Top Width:	295.70	ft
Critical Slope:	0.0973	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S19–~~140~~ 570

Entellus™

File: T2N-R6W-S19-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

Cross-Section:	~~146~~ 575	
Elevation:	1251.55	ft MSL
Depth:	3.36	ft
Discharge:	1050.00	cfs
Energy Gradient:	0.0102	ft/ft
Froude Number:	0.3256	
Flow Regime:	Subcritical	
Flow Area:	310.04	sq ft
Average Velocity:	3.39	ft/s
Maximum Velocity:	3.85	ft/s
Composite n:	0.0474	
Hydraulic Radius:	1.04	ft
Wetted Perimeter:	297.47	ft
Wetted Top Width:	297.34	ft
Critical Slope:	0.1039	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S19–1~~45~~ 575

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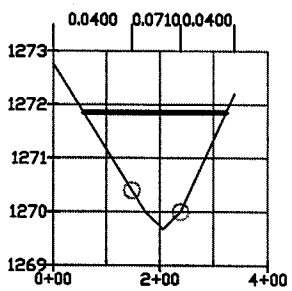
File: T2N-R6W-S19-New-Mapping.dwg Date: 10/03/02



~~150~~ 580

Normal Depth Results

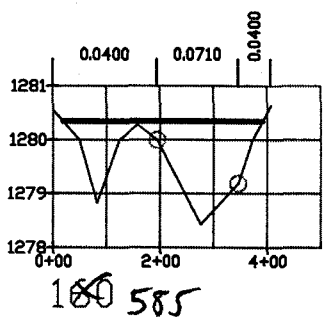
Cross-Section:	~~150~~ 580	
Elevation:	1271.86	ft MSL
Depth:	2.18	ft
Discharge:	1050.00	cfs
Energy Gradient:	0.0102	ft/ft
Froude Number:	0.3941	
Flow Regime:	Subcritical	
Flow Area:	318.39	sq ft
Average Velocity:	3.30	ft/s
Maximum Velocity:	3.58	ft/s
Composite n:	0.0515	
Hydraulic Radius:	1.2	ft
Wetted Perimeter:	266.26	ft
Wetted Top Width:	266.22	ft
Critical Slope:	0.0661	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S19–~~150~~ 580

Entellus™

File: T2N-R6W-S19-New-Mapping.dwg; Date: 10/03/02



Normal Depth Results

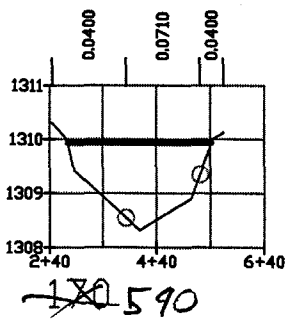
Cross-Section:	~~180~~ 585	
Elevation:	1280.34	ft MSL
Depth:	1.91	ft
Discharge:	780.00	cfs
Energy Gradient:	0.0102	ft/ft
Froude Number:	0.3191	
Flow Regime:	Subcritical	
Flow Area:	311.53	sq ft
Average Velocity:	2.49	ft/s
Maximum Velocity:	2.54	ft/s
Composite n:	0.0536	
Hydraulic Radius:	0.84	ft
Wetted Perimeter:	372.75	ft
Wetted Top Width:	372.68	ft
Critical Slope:	0.1015	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S19–~~180~~ 585

Entellus™

File: T2N-R6W-S19-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

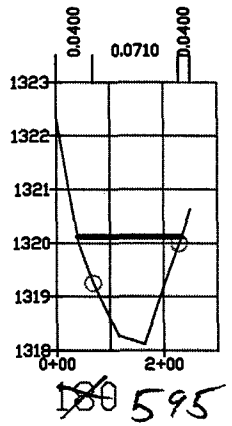
Cross-Section:	~~170~~ 590	
Elevation:	1309.94	ft MSL
Depth:	1.62	ft
Discharge:	780.00	cfs
Energy Gradient:	0.0102	ft/ft
Froude Number:	0.3871	
Flow Regime:	Subcritical	
Flow Area:	279.48	sq ft
Average Velocity:	2.81	ft/s
Maximum Velocity:	3.43	ft/s
Composite n:	0.0569	
Hydraulic Radius:	1.04	ft
Wetted Perimeter:	268.55	ft
Wetted Top Width:	268.52	ft
Critical Slope:	0.072	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S19–~~170~~ 590

Entellus™

File: T2N-R6W-S19-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

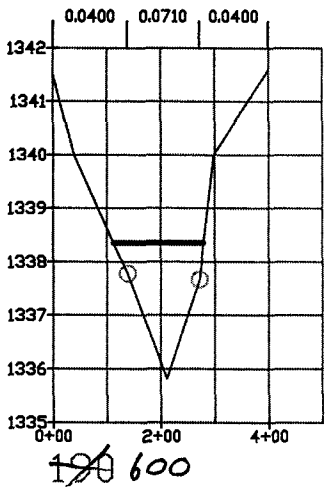
Cross-Section:	~~180~~ 595	
Elevation:	1320.13	ft MSL
Depth:	2.01	ft
Discharge:	630.00	cfs
Energy Gradient:	0.0102	ft/ft
Froude Number:	0.327	
Flow Regime:	Subcritical	
Flow Area:	239.79	sq ft
Average Velocity:	2.64	ft/s
Maximum Velocity:	2.67	ft/s
Composite n:	0.0661	
Hydraulic Radius:	1.24	ft
Wetted Perimeter:	193.75	ft
Wetted Top Width:	193.70	ft
Critical Slope:	0.0958	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S19–~~180~~ 595

Entellus™

File: T2N-R6W-S19-New-Mapping.dwg, Date: 10/03/02



Normal Depth Results

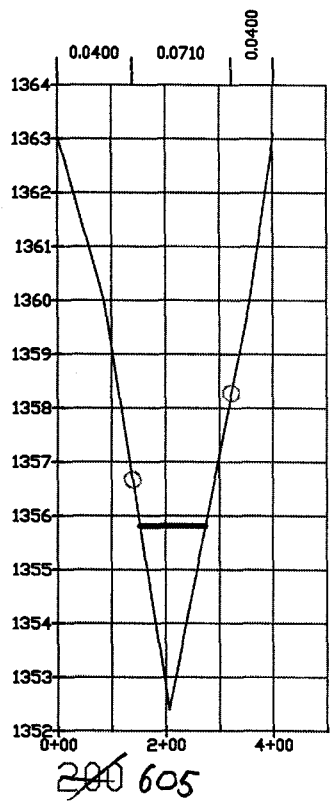
Cross-Section:	~~190~~ 600	
Elevation:	1338.36	ft MSL
Depth:	2.54	ft
Discharge:	630.00	cfs
Energy Gradient:	0.0102	ft/ft
Froude Number:	0.315	
Flow Regime:	Subcritical	
Flow Area:	221.36	sq ft
Average Velocity:	2.82	ft/s
Maximum Velocity:	2.88	ft/s
Composite n:	0.0654	
Hydraulic Radius:	1.32	ft
Wetted Perimeter:	167.18	ft
Wetted Top Width:	167.08	ft
Critical Slope:	0.1081	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S19–~~190~~ 600

Entellus™

File: T2N-R6W-S19-New-Mapping.dwg, Date: 10/03/02



Normal Depth Results

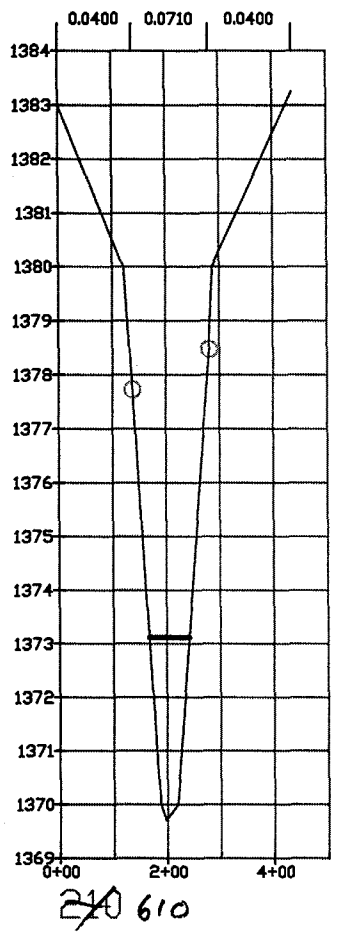
Cross-Section:	~~200~~ 605	
Elevation:	1355.82	ft MSL
Depth:	3.42	ft
Discharge:	630.00	cfs
Energy Gradient:	0.0102	ft/ft
Froude Number:	0.2888	
Flow Regime:	Subcritical	
Flow Area:	207.99	sq ft
Average Velocity:	3.03	ft/s
Maximum Velocity:	3.03	ft/s
Composite n:	0.071	
Hydraulic Radius:	1.71	ft
Wetted Perimeter:	121.92	ft
Wetted Top Width:	121.72	ft
Critical Slope:	0.1224	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S19–~~200~~ 605

Entellus™

File: T2N-R6W-S19-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

Cross-Section:	~~210~~ 610	
Elevation:	1373.12	ft MSL
Depth:	3.41	ft
Discharge:	630.00	cfs
Energy Gradient:	0.0102	ft/ft
Froude Number:	0.3499	
Flow Regime:	Subcritical	
Flow Area:	171.90	sq ft
Average Velocity:	3.67	ft/s
Maximum Velocity:	3.67	ft/s
Composite n:	0.071	
Hydraulic Radius:	2.28	ft
Wetted Perimeter:	75.41	ft
Wetted Top Width:	74.95	ft
Critical Slope:	0.083	ft/ft

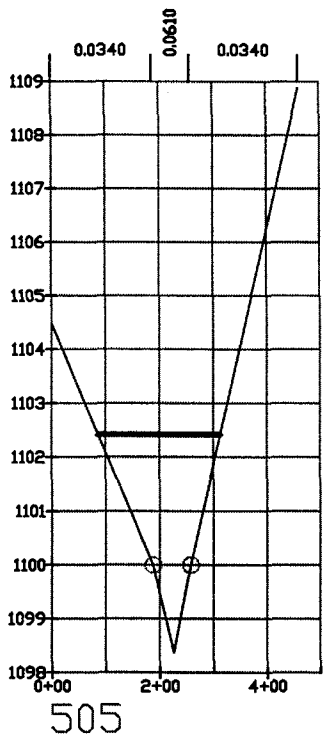
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S19–~~210~~ 610

Entellus™

File: T2N-R6W-S19-New-Mapping.dwg Date: 10/03/02

T2N-R6W-S30W



Normal Depth Results

Cross-Section:	505	
Elevation:	1102.42	ft MSL
Depth:	4.05	ft
Discharge:	1720.00	cfs
Energy Gradient:	0.0064	ft/ft
Froude Number:	0.3623	
Flow Regime:	Subcritical	
Flow Area:	415.80	sq ft
Average Velocity:	4.14	ft/s
Maximum Velocity:	4.27	ft/s
Composite n:	0.0432	
Hydraulic Radius:	1.83	ft
Wetted Perimeter:	226.81	ft
Wetted Top Width:	226.65	ft
Critical Slope:	0.0488	ft/ft

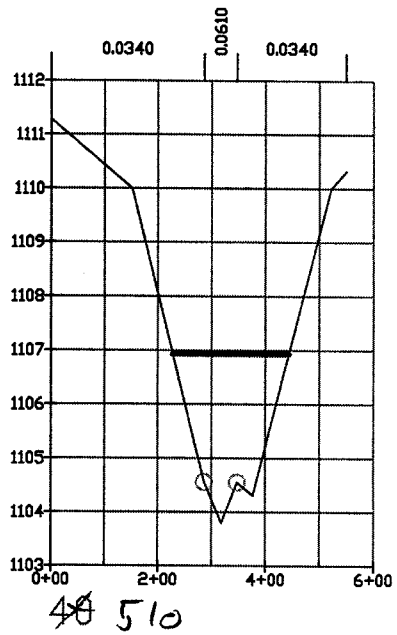
NOT USED IN DELINEATION

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S30W–505

Entellus™

File: T2N-R6W-S30W-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

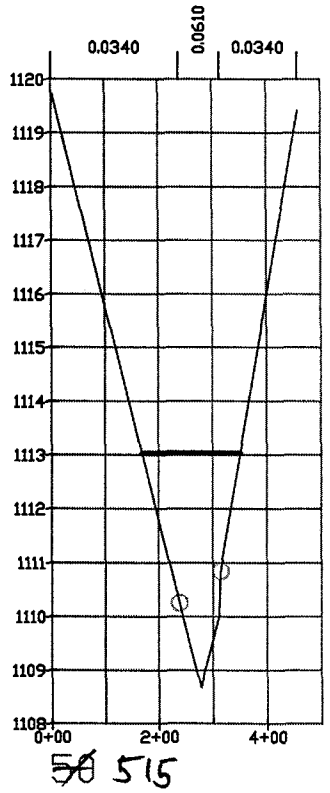
Cross-Section:	~~40~~ 510	
Elevation:	1106.93	ft MSL
Depth:	3.13	ft
Discharge:	1720.00	cfs
Energy Gradient:	0.0064	ft/ft
Froude Number:	0.4293	
Flow Regime:	Subcritical	
Flow Area:	398.99	sq ft
Average Velocity:	4.30	ft/s
Maximum Velocity:	4.94	ft/s
Composite n:	0.0424	
Hydraulic Radius:	1.85	ft
Wetted Perimeter:	216.08	ft
Wetted Top Width:	215.96	ft
Critical Slope:	0.0361	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S30W–~~40~~ 510

Entellus™

File: T2N-R6W-S30W-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

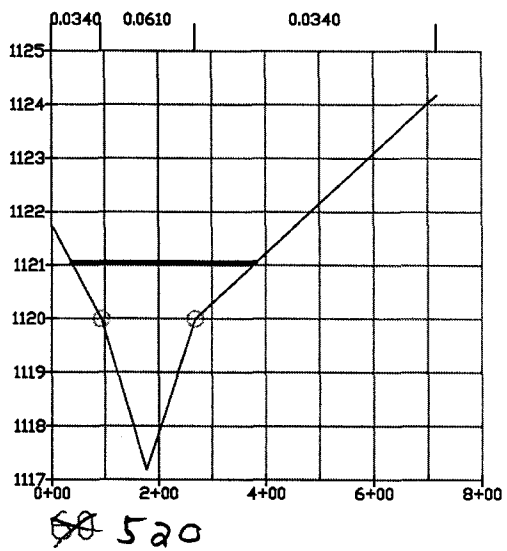
Cross-Section:	~~50~~ 515	
Elevation:	1113.03	ft MSL
Depth:	4.35	ft
Discharge:	1720.00	cfs
Energy Gradient:	0.0064	ft/ft
Froude Number:	0.3678	
Flow Regime:	Subcritical	
Flow Area:	395.23	sq ft
Average Velocity:	4.34	ft/s
Maximum Velocity:	4.43	ft/s
Composite n:	0.0462	
Hydraulic Radius:	2.17	ft
Wetted Perimeter:	181.90	ft
Wetted Top Width:	181.68	ft
Critical Slope:	0.0479	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S30W–~~56~~ 515

Entellus™

File: T2N-R6W-S30W-New-Mapping.dwg; Date: 10/03/02



Normal Depth Results

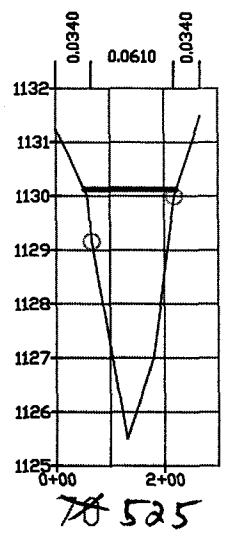
Cross-Section:	~~50~~ 520	
Elevation:	1121.04	ft MSL
Depth:	3.85	ft
Discharge:	1720.00	cfs
Energy Gradient:	0.0064	ft/ft
Froude Number:	0.2996	
Flow Regime:	Subcritical	
Flow Area:	515.71	sq ft
Average Velocity:	3.33	ft/s
Maximum Velocity:	3.55	ft/s
Composite n:	0.0487	
Hydraulic Radius:	1.51	ft
Wetted Perimeter:	342.49	ft
Wetted Top Width:	342.39	ft
Critical Slope:	0.0769	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S30W–~~50~~ 520

Entellus™

File: T2N-R6W-S30W-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

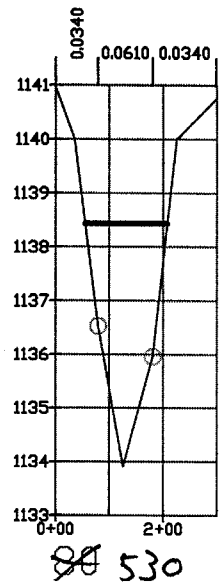
Cross-Section:	~~70~~ 525	
Elevation:	1130.12	ft MSL
Depth:	4.62	ft
Discharge:	1720.00	cfs
Energy Gradient:	0.0064	ft/ft
Froude Number:	0.3203	
Flow Regime:	Subcritical	
Flow Area:	440.22	sq ft
Average Velocity:	3.89	ft/s
Maximum Velocity:	3.92	ft/s
Composite n:	0.0585	
Hydraulic Radius:	2.58	ft
Wetted Perimeter:	170.73	ft
Wetted Top Width:	170.44	ft
Critical Slope:	0.065	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S30W–~~70~~ 525

Entellus™

File: T2N-R6W-S30W-New-Mapping.dwg, Date: 10/03/02



Normal Depth Results

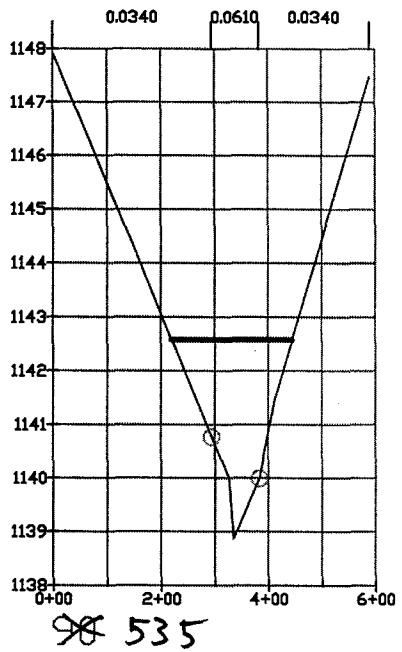
Cross-Section:	~~80~~ 530	
Elevation:	1138.44	ft MSL
Depth:	4.53	ft
Discharge:	1720.00	cfs
Energy Gradient:	0.0064	ft/ft
Froude Number:	0.3562	
Flow Regime:	Subcritical	
Flow Area:	400.07	sq ft
Average Velocity:	4.30	ft/s
Maximum Velocity:	4.39	ft/s
Composite n:	0.0527	
Hydraulic Radius:	2.61	ft
Wetted Perimeter:	153.44	ft
Wetted Top Width:	153.14	ft
Critical Slope:	0.0508	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S30W–~~80~~ 530

Entellus™

File: T2N-R6W-S30W-New-Mapping.dwg; Date: 10/03/02



Normal Depth Results

Cross-Section:	~~90~~ 535	
Elevation:	1142.58	ft MSL
Depth:	3.71	ft
Discharge:	1460.00	cfs
Energy Gradient:	0.0064	ft/ft
Froude Number:	0.3447	
Flow Regime:	Subcritical	
Flow Area:	387.67	sq ft
Average Velocity:	3.78	ft/s
Maximum Velocity:	3.89	ft/s
Composite n:	0.0456	
Hydraulic Radius:	1.72	ft
Wetted Perimeter:	224.80	ft
Wetted Top Width:	224.63	ft
Critical Slope:	0.0541	ft/ft

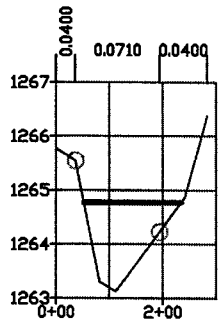
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S30W–~~90~~ 535

Entellus™

File: T2N-k6W-S30W-New-Mapping.dwg, Date: 10/03/02

T2N-R7W-S02



~~20~~ 510

Normal Depth Results

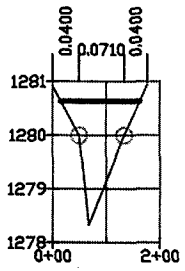
Cross-Section:	~~20~~ 510	
Elevation:	1264.78	ft MSL
Depth:	1.65	ft
Discharge:	360.00	cfs
Energy Gradient:	0.0094	ft/ft
Froude Number:	0.2908	
Flow Regime:	Subcritical	
Flow Area:	170.15	sq ft
Average Velocity:	2.15	ft/s
Maximum Velocity:	2.19	ft/s
Composite n:	0.0648	
Hydraulic Radius:	0.93	ft
Wetted Perimeter:	182.68	ft
Wetted Top Width:	182.63	ft
Critical Slope:	0.1102	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S02–~~20~~ 510

Entellus™

File: T2N-R7W-S02-New-Mapping.dwg, Date: 10/03/02



~~40~~ 515

Normal Depth Results

Cross-Section:	~~40~~ 515	
Elevation:	1280.64	ft MSL
Depth:	2.31	ft
Discharge:	360.00	cfs
Energy Gradient:	0.0094	ft/ft
Froude Number:	0.289	
Flow Regime:	Subcritical	
Flow Area:	144.52	sq ft
Average Velocity:	2.50	ft/s
Maximum Velocity:	2.63	ft/s
Composite n:	0.0587	
Hydraulic Radius:	0.98	ft
Wetted Perimeter:	147.97	ft
Wetted Top Width:	147.85	ft
Critical Slope:	0.119	ft/ft

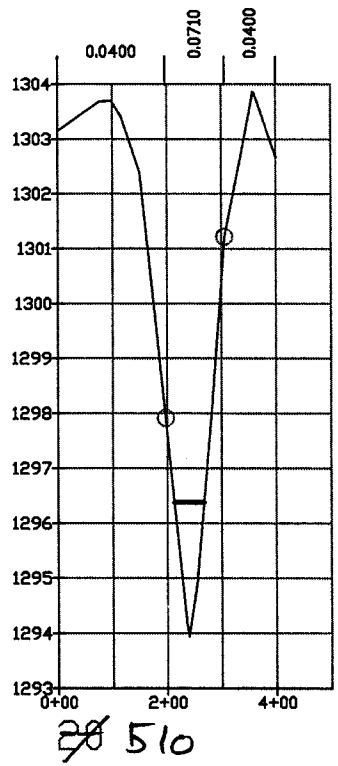
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S02–~~40~~ 515

Entellus™

File: T2N-k7W-S02-New-Mapping.dwg Date: 10/03/02

T2N-R7W-S07E



Normal Depth Results

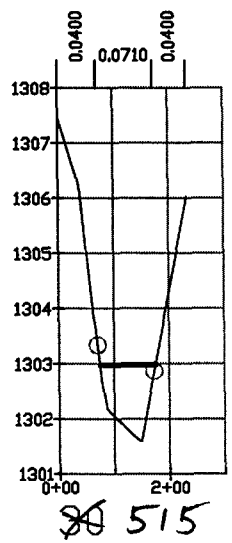
Cross-Section:	~~20~~ 510	
Elevation:	1296.39	ft MSL
Depth:	2.44	ft
Discharge:	170.00	cfs
Energy Gradient:	0.0083	ft/ft
Froude Number:	0.2633	
Flow Regime:	Subcritical	
Flow Area:	72.87	sq ft
Average Velocity:	2.32	ft/s
Maximum Velocity:	2.32	ft/s
Composite n:	0.071	
Hydraulic Radius:	1.34	ft
Wetted Perimeter:	54.54	ft
Wetted Top Width:	54.31	ft
Critical Slope:	0.1211	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S07E–~~20~~ 510

Entellus™

File: T2N-R7W-S07E.dwg Date: 10/03/02



Normal Depth Results

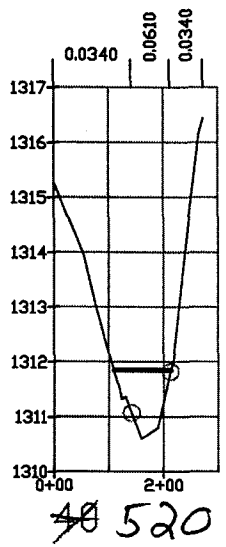
Cross-Section:	~~30~~ 515	
Elevation:	1302.98	ft MSL
Depth:	1.38	ft
Discharge:	170.00	cfs
Energy Gradient:	0.0083	ft/ft
Froude Number:	0.2759	
Flow Regime:	Subcritical	
Flow Area:	92.46	sq ft
Average Velocity:	1.83	ft/s
Maximum Velocity:	1.83	ft/s
Composite n:	0.0704	
Hydraulic Radius:	0.92	ft
Wetted Perimeter:	100.74	ft
Wetted Top Width:	100.67	ft
Critical Slope:	0.1112	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S07E–~~30~~ 515

Entellus™

File: T2N-R7W-S07E.dwg Date: 10/03/02



Normal Depth Results

Cross-Section:	~~40~~ 520	
Elevation:	1311.85	ft MSL
Depth:	1.25	ft
Discharge:	170.00	cfs
Energy Gradient:	0.0083	ft/ft
Froude Number:	0.338	
Flow Regime:	Subcritical	
Flow Area:	79.36	sq ft
Average Velocity:	2.13	ft/s
Maximum Velocity:	2.28	ft/s
Composite n:	0.0531	
Hydraulic Radius:	0.76	ft
Wetted Perimeter:	104.70	ft
Wetted Top Width:	104.65	ft
Critical Slope:	0.0738	ft/ft

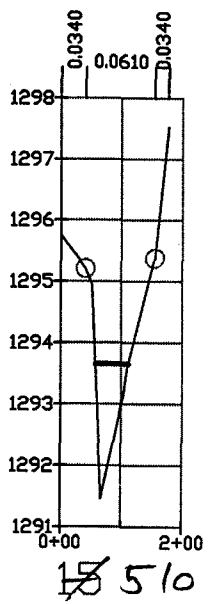
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S07E–~~40~~ 520

Entellus™

File: T2N-R7W-S07E.dwg Date: 10/03/02

T2N-R7W-S07S



Normal Depth Results

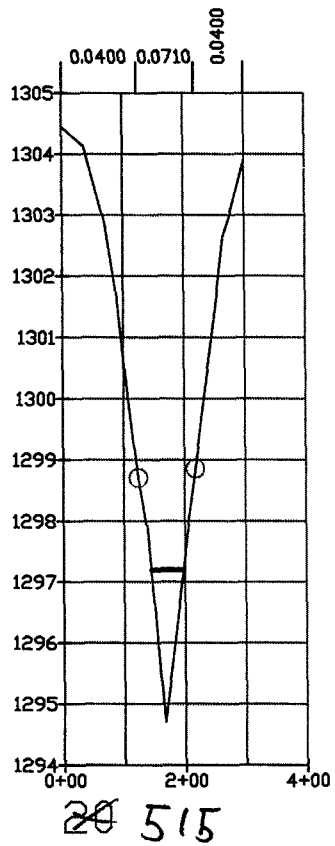
Cross-Section:	~~15~~ 510	
Elevation:	1293.65	ft MSL
Depth:	2.19	ft
Discharge:	150.00	cfs
Energy Gradient:	0.0083	ft/ft
Froude Number:	0.2873	
Flow Regime:	Subcritical	
Flow Area:	62.14	sq ft
Average Velocity:	2.41	ft/s
Maximum Velocity:	2.41	ft/s
Composite n:	0.061	
Hydraulic Radius:	1.13	ft
Wetted Perimeter:	55.02	ft
Wetted Top Width:	54.73	ft
Critical Slope:	0.1006	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S07S–~~15~~ 510

Entellus™

File: T2N-R7W-S07S.dwg Date: 10/02/02



Normal Depth Results

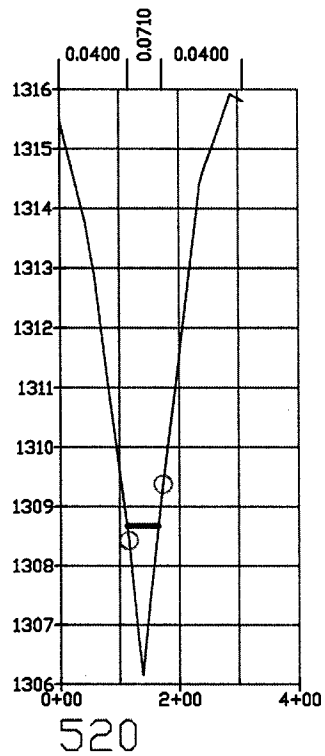
Cross-Section:	~~30~~ 515	
Elevation:	1297.20	ft MSL
Depth:	2.49	ft
Discharge:	150.00	cfs
Energy Gradient:	0.0083	ft/ft
Froude Number:	0.2475	
Flow Regime:	Subcritical	
Flow Area:	67.65	sq ft
Average Velocity:	2.23	ft/s
Maximum Velocity:	2.23	ft/s
Composite n:	0.071	
Hydraulic Radius:	1.26	ft
Wetted Perimeter:	53.63	ft
Wetted Top Width:	53.40	ft
Critical Slope:	0.1336	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S07S–~~20~~ 515

Entellus™

File: T2N-R7W-S07S.dwg Date: 10/02/02



Normal Depth Results

Cross-Section:	520	
Elevation:	1308.67	ft MSL
Depth:	2.51	ft
Discharge:	150.00	cfs
Energy Gradient:	0.0083	ft/ft
Froude Number:	0.2533	
Flow Regime:	Subcritical	
Flow Area:	65.85	sq ft
Average Velocity:	2.28	ft/s
Maximum Velocity:	2.29	ft/s
Composite n:	0.0693	
Hydraulic Radius:	1.24	ft
Wetted Perimeter:	53.09	ft
Wetted Top Width:	52.85	ft
Critical Slope:	0.1313	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S07S–520

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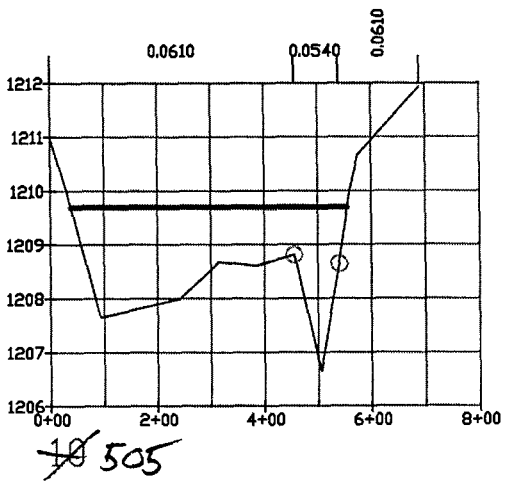
File: T2N-R7W-S07S.dwg Date: 9/03/02

T2N-R7W-S10



Normal Depth Results

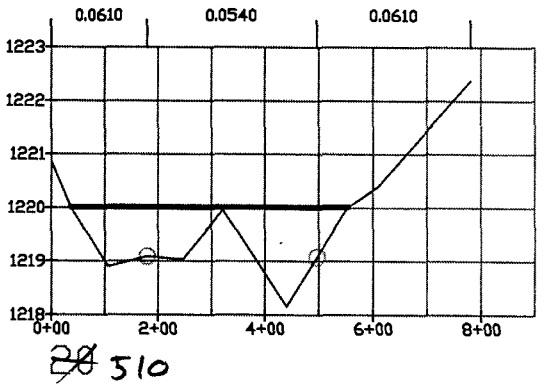
Cross-Section:	~~10~~ 505	
Elevation:	1209.70	ft MSL
Depth:	3.05	ft
Discharge:	2050.00	cfs
Energy Gradient:	0.0067	ft/ft
Froude Number:	0.2749	
Flow Regime:	Subcritical	
Flow Area:	753.15	sq ft
Average Velocity:	2.71	ft/s
Maximum Velocity:	3.58	ft/s
Composite n:	0.0599	
Hydraulic Radius:	1.46	ft
Wetted Perimeter:	516.92	ft
Wetted Top Width:	516.73	ft
Critical Slope:	0.0959	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S10–~~10~~ 505

Entellus™

File: T2N-R7W-S10-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

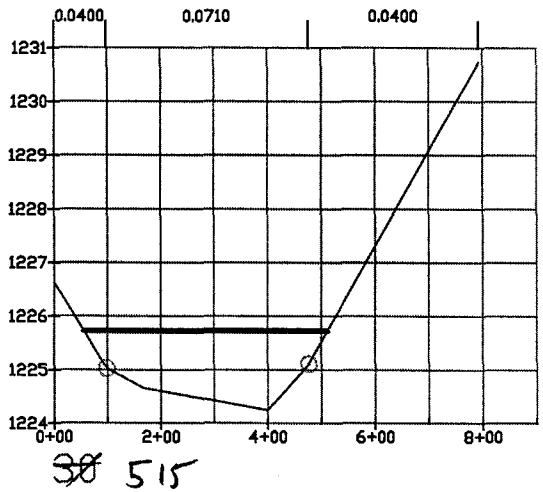
Cross-Section:	~~20~~ 510	
Elevation:	1220.02	ft MSL
Depth:	1.86	ft
Discharge:	1040.00	cfs
Energy Gradient:	0.0098	ft/ft
Froude Number:	0.3081	
Flow Regime:	Subcritical	
Flow Area:	436.47	sq ft
Average Velocity:	2.40	ft/s
Maximum Velocity:	2.60	ft/s
Composite n:	0.0567	
Hydraulic Radius:	0.84	ft
Wetted Perimeter:	519.17	ft
Wetted Top Width:	519.13	ft
Critical Slope:	0.1094	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S10–~~20~~ 510

Entellus™

File: T2N-R7W-S10-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

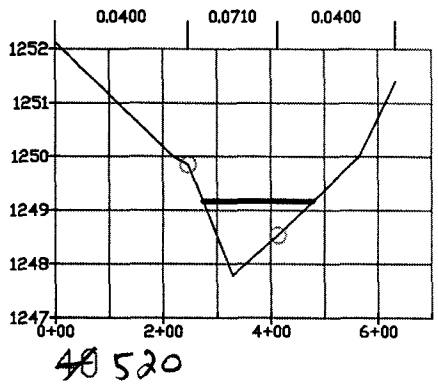
Cross-Section:	~~30~~ 515	
Elevation:	1225.73	ft MSL
Depth:	1.49	ft
Discharge:	1040.00	cfs
Energy Gradient:	0.0098	ft/ft
Froude Number:	0.3239	
Flow Regime:	Subcritical	
Flow Area:	464.34	sq ft
Average Velocity:	2.26	ft/s
Maximum Velocity:	2.29	ft/s
Composite n:	0.0662	
Hydraulic Radius:	1.02	ft
Wetted Perimeter:	455.98	ft
Wetted Top Width:	455.96	ft
Critical Slope:	0.0923	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S10–~~30~~ 515

Entellus™

File: T2N-R7W-S10-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

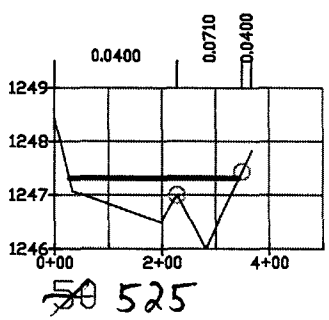
Cross-Section:	~~40~~ 520	
Elevation:	1249.17	ft MSL
Depth:	1.38	ft
Discharge:	270.00	cfs
Energy Gradient:	0.0098	ft/ft
Froude Number:	0.2839	
Flow Regime:	Subcritical	
Flow Area:	142.76	sq ft
Average Velocity:	1.88	ft/s
Maximum Velocity:	1.91	ft/s
Composite n:	0.0619	
Hydraulic Radius:	0.7	ft
Wetted Perimeter:	204.39	ft
Wetted Top Width:	204.37	ft
Critical Slope:	0.1239	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S10–~~40~~ 520

Entellus™

File: T2N-K7W-S10-New-Mapping.dwg, Date: 10/03/02



Normal Depth Results

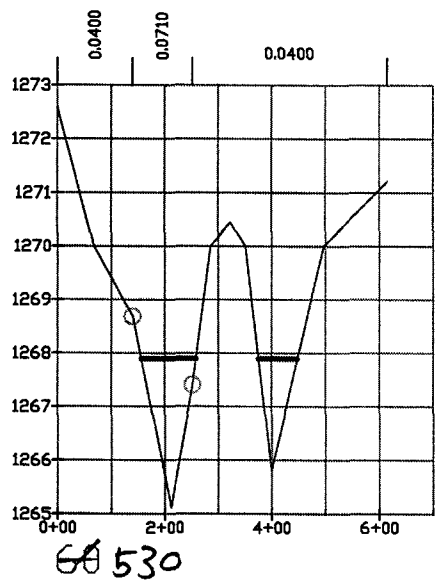
Cross-Section:	~~50~~ 525	
Elevation:	1247.31	ft MSL
Depth:	1.31	ft
Discharge:	400.00	cfs
Energy Gradient:	0.0098	ft/ft
Froude Number:	0.3245	
Flow Regime:	Subcritical	
Flow Area:	189.56	sq ft
Average Velocity:	2.09	ft/s
Maximum Velocity:	2.41	ft/s
Composite n:	0.0523	
Hydraulic Radius:	0.6	ft
Wetted Perimeter:	315.45	ft
Wetted Top Width:	315.42	ft
Critical Slope:	0.1029	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S10–~~50~~ 525

Entellus™

File: T2N-R7W-S10-New-Mapping.dwg; Date: 10/03/02



Normal Depth Results

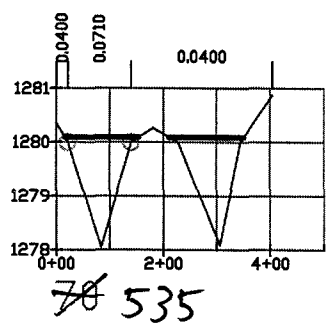
Cross-Section:	~~60~~ 530	
Elevation:	1267.90	ft MSL
Depth:	2.77	ft
Discharge:	670.00	cfs
Energy Gradient:	0.0098	ft/ft
Froude Number:	0.3223	
Flow Regime:	Subcritical	
Flow Area:	220.36	sq ft
Average Velocity:	3.03	ft/s
Maximum Velocity:	3.64	ft/s
Composite n:	0.058	
Hydraulic Radius:	1.26	ft
Wetted Perimeter:	175.38	ft
Wetted Top Width:	175.09	ft
Critical Slope:	0.0997	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S10–~~60~~ 530

Entellus™

File: T2N-R7W-S10-New-Mapping.dwg, Date: 10/03/02



Normal Depth Results

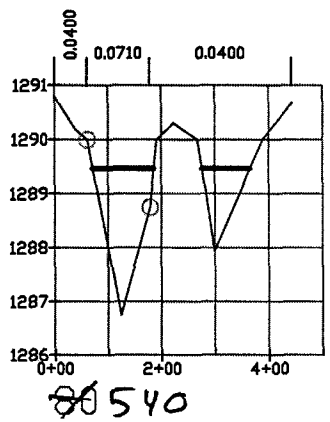
Cross-Section:	~~70~~ 535	
Elevation:	1280.09	ft MSL
Depth:	2.04	ft
Discharge:	670.00	cfs
Energy Gradient:	0.0098	ft/ft
Froude Number:	0.3298	
Flow Regime:	Subcritical	
Flow Area:	250.62	sq ft
Average Velocity:	2.67	ft/s
Maximum Velocity:	3.19	ft/s
Composite n:	0.0542	
Hydraulic Radius:	0.9	ft
Wetted Perimeter:	278.38	ft
Wetted Top Width:	278.24	ft
Critical Slope:	0.1002	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S10–~~70~~ 535

Entellus™

File: T2N-k7W-S10-New-Mapping.dwg Date: 10/03/02



Normal Depth Results

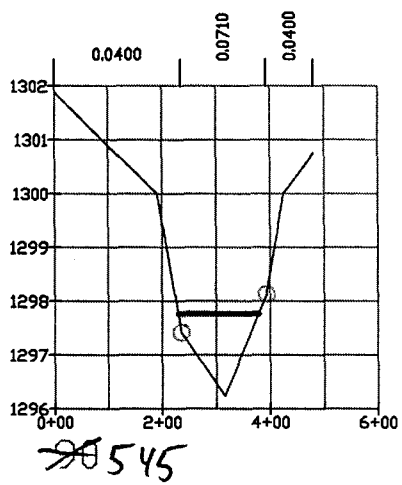
Cross-Section:	~~80~~ 540	
Elevation:	1289.47	ft MSL
Depth:	2.72	ft
Discharge:	670.00	cfs
Energy Gradient:	0.0098	ft/ft
Froude Number:	0.3032	
Flow Regime:	Subcritical	
Flow Area:	236.26	sq ft
Average Velocity:	2.84	ft/s
Maximum Velocity:	3.00	ft/s
Composite n:	0.0573	
Hydraulic Radius:	1.15	ft
Wetted Perimeter:	204.57	ft
Wetted Top Width:	204.36	ft
Critical Slope:	0.1067	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S10–~~80~~ 540

Entellus™

File: T2N-R7W-S10-New-Mapping.dwg; Date: 10/03/02



Normal Depth Results

Cross-Section:	~~90~~ 545	
Elevation:	1297.77	ft MSL
Depth:	1.53	ft
Discharge:	230.00	cfs
Energy Gradient:	0.0098	ft/ft
Froude Number:	0.2634	
Flow Regime:	Subcritical	
Flow Area:	124.49	sq ft
Average Velocity:	1.88	ft/s
Maximum Velocity:	1.88	ft/s
Composite n:	0.0699	
Hydraulic Radius:	0.83	ft
Wetted Perimeter:	149.25	ft
Wetted Top Width:	149.21	ft
Critical Slope:	0.1378	ft/ft

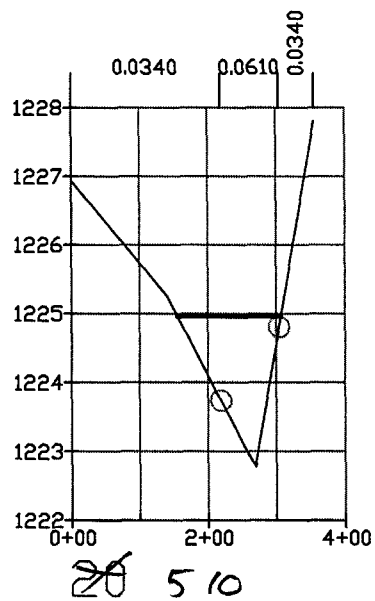
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S10–~~90~~ 545

Entellus™

File: T2N-R7W-S10-New-Mapping.dwg Date: 10/03/02

T2N-R7W-S15E



Normal Depth Results

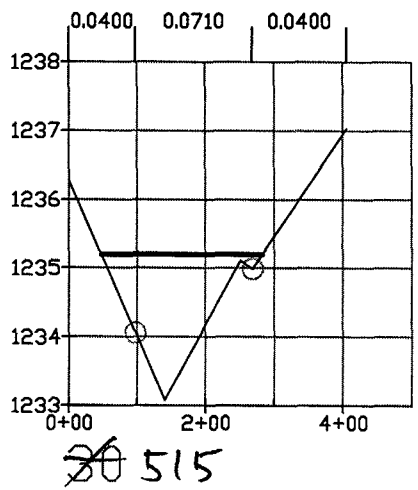
Cross-Section:	~~20~~ 5 10	
Elevation:	1224.96	ft MSL
Depth:	2.18	ft
Discharge:	490.00	cfs
Energy Gradient:	0.0089	ft/ft
Froude Number:	0.3546	
Flow Regime:	Subcritical	
Flow Area:	164.83	sq ft
Average Velocity:	2.99	ft/s
Maximum Velocity:	3.00	ft/s
Composite n:	0.0501	
Hydraulic Radius:	1.09	ft
Wetted Perimeter:	150.94	ft
Wetted Top Width:	150.85	ft
Critical Slope:	0.0706	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S15E–~~20~~ 5 10

Entellus™

File: T2N-R7W-S15E-New-Mapping.dwg Date: 10/14/02



Normal Depth Results

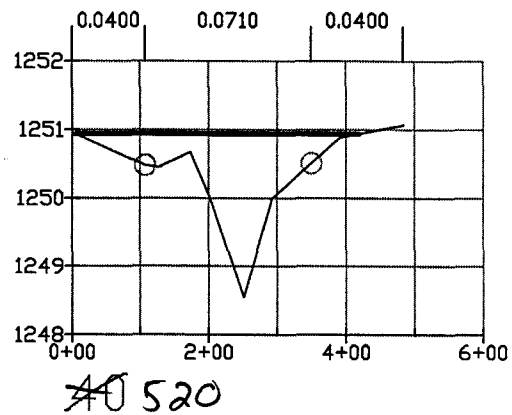
Cross-Section:	~~30~~ 515	
Elevation:	1235.20	ft MSL
Depth:	2.12	ft
Discharge:	490.00	cfs
Energy Gradient:	0.0089	ft/ft
Froude Number:	0.2642	
Flow Regime:	Subcritical	
Flow Area:	224.62	sq ft
Average Velocity:	2.18	ft/s
Maximum Velocity:	2.41	ft/s
Composite n:	0.0633	
Hydraulic Radius:	0.95	ft
Wetted Perimeter:	235.37	ft
Wetted Top Width:	235.32	ft
Critical Slope:	0.131	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S15E–~~30~~ 515

Entellus™

File: T2N-R7W-S15E-New-Mapping.dwg Date: 10/14/02



Normal Depth Results

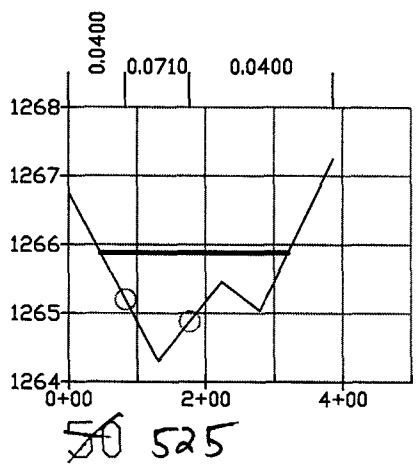
Cross-Section:	~~40~~ 520	
Elevation:	1250.94	ft MSL
Depth:	2.39	ft
Discharge:	490.00	cfs
Energy Gradient:	0.0089	ft/ft
Froude Number:	0.2092	
Flow Regime:	Subcritical	
Flow Area:	267.19	sq ft
Average Velocity:	1.84	ft/s
Maximum Velocity:	1.93	ft/s
Composite n:	0.0591	
Hydraulic Radius:	0.65	ft
Wetted Perimeter:	414.08	ft
Wetted Top Width:	414.02	ft
Critical Slope:	0.2171	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S15E–~~40~~ 520

Entellus™

File: T2N-R7W-S15E-New-Mapping.dwg Date: 10/14/02



Normal Depth Results

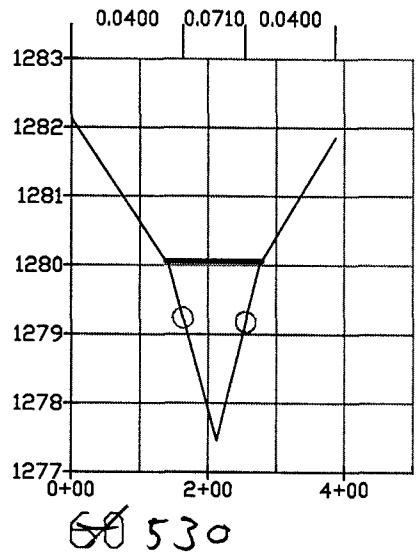
Cross-Section:	~~50~~ 525	
Elevation:	1265.88	ft MSL
Depth:	1.58	ft
Discharge:	490.00	cfs
Energy Gradient:	0.0089	ft/ft
Froude Number:	0.3234	
Flow Regime:	Subcritical	
Flow Area:	212.21	sq ft
Average Velocity:	2.32	ft/s
Maximum Velocity:	2.50	ft/s
Composite n:	0.0516	
Hydraulic Radius:	0.78	ft
Wetted Perimeter:	273.78	ft
Wetted Top Width:	273.75	ft
Critical Slope:	0.0861	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S15E–~~50~~ 525

Entellus™

File: T2N-R7W-S15E-New-Mapping.dwg Date: 10/14/02



Normal Depth Results

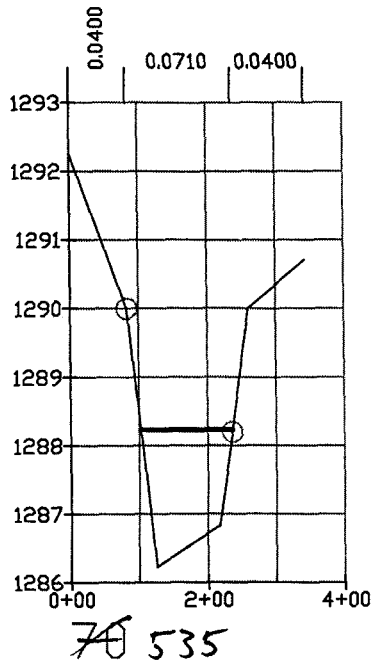
Cross-Section:	~~60~~ 530	
Elevation:	1280.06	ft MSL
Depth:	2.60	ft
Discharge:	490.00	cfs
Energy Gradient:	0.0089	ft/ft
Froude Number:	0.3014	
Flow Regime:	Subcritical	
Flow Area:	177.75	sq ft
Average Velocity:	2.74	ft/s
Maximum Velocity:	2.84	ft/s
Composite n:	0.0611	
Hydraulic Radius:	1.26	ft
Wetted Perimeter:	141.29	ft
Wetted Top Width:	141.19	ft
Critical Slope:	0.1036	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S15E–~~60~~ 530

Entellus™

File: T2N-R7W-S15E-New-Mapping.dwg Date: 10/14/02



Normal Depth Results

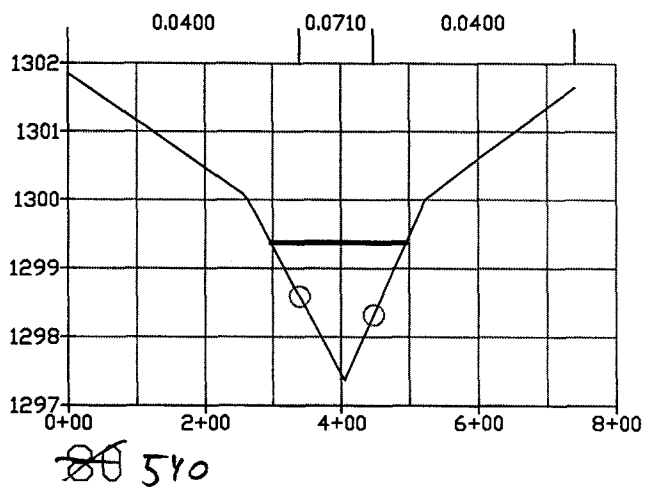
Cross-Section:	~~70~~ 535	
Elevation:	1288.23	ft MSL
Depth:	2.00	ft
Discharge:	490.00	cfs
Energy Gradient:	0.0089	ft/ft
Froude Number:	0.3167	
Flow Regime:	Subcritical	
Flow Area:	192.61	sq ft
Average Velocity:	2.53	ft/s
Maximum Velocity:	2.53	ft/s
Composite n:	0.0709	
Hydraulic Radius:	1.44	ft
Wetted Perimeter:	133.58	ft
Wetted Top Width:	133.44	ft
Critical Slope:	0.0896	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S15E–~~70~~ 535

Entellus™

File: T2N-R7W-S15E-New-Mapping.dwg Date: 10/14/02



Normal Depth Results

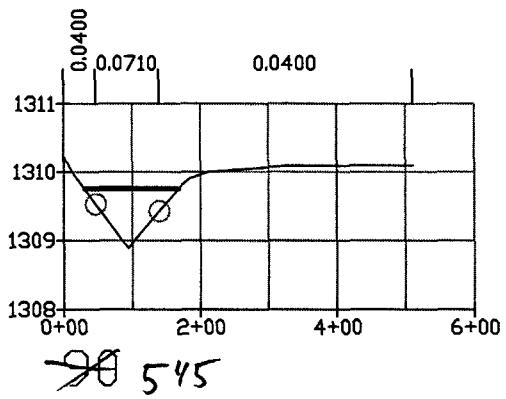
Cross-Section:	~~80~~ 540	
Elevation:	1299.38	ft MSL
Depth:	2.01	ft
Discharge:	490.00	cfs
Energy Gradient:	0.0089	ft/ft
Froude Number:	0.3069	
Flow Regime:	Subcritical	
Flow Area:	198.64	sq ft
Average Velocity:	2.45	ft/s
Maximum Velocity:	2.54	ft/s
Composite n:	0.0579	
Hydraulic Radius:	1	ft
Wetted Perimeter:	198.03	ft
Wetted Top Width:	197.99	ft
Critical Slope:	0.0974	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S15E–~~80~~ 540

Entellus™

File: T2N-R7W-S15E-New-Mapping.dwg Date: 10/14/02



Normal Depth Results

Cross-Section:	~~90~~ 545	
Elevation:	1309.76	ft MSL
Depth:	0.87	ft
Discharge:	80.00	cfs
Energy Gradient:	0.0089	ft/ft
Froude Number:	0.2541	
Flow Regime:	Subcritical	
Flow Area:	59.64	sq ft
Average Velocity:	1.32	ft/s
Maximum Velocity:	1.36	ft/s
Composite n:	0.0618	
Hydraulic Radius:	0.43	ft
Wetted Perimeter:	138.13	ft
Wetted Top Width:	138.12	ft
Critical Slope:	0.1468	ft/ft

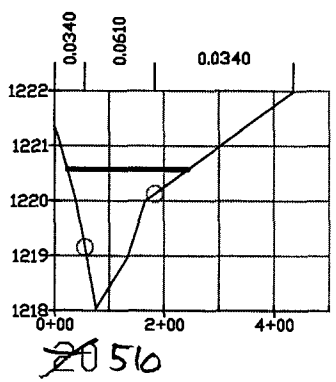
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S15E–~~90~~ 545

Entellus™

File: T2N-R7W-S15E-New-Mapping.dwg Date: 10/14/02

T2N-R7W-S15W



Normal Depth Results

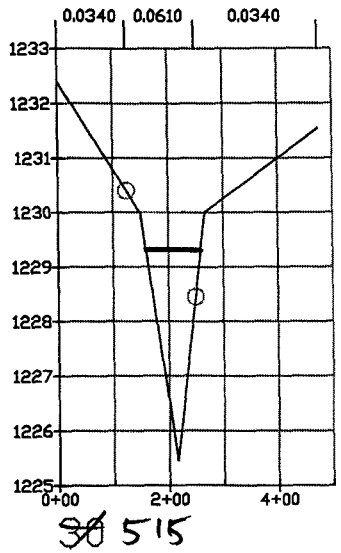
Cross-Section:	~~20~~ 510	
Elevation:	1220.57	ft MSL
Depth:	2.53	ft
Discharge:	710.00	cfs
Energy Gradient:	0.0087	ft/ft
Froude Number:	0.3313	
Flow Regime:	Subcritical	
Flow Area:	237.28	sq ft
Average Velocity:	3.00	ft/s
Maximum Velocity:	3.10	ft/s
Composite n:	0.0505	
Hydraulic Radius:	1.07	ft
Wetted Perimeter:	220.75	ft
Wetted Top Width:	220.66	ft
Critical Slope:	0.0853	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S15W–~~20~~ 510

Entellus™

File: T2N-R7W-S15W-New-Mapping.dwg Date: 10/14/02



Normal Depth Results

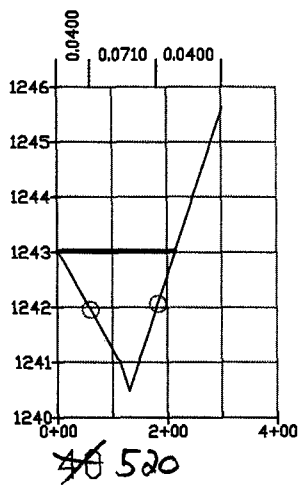
Cross-Section:	~~30~~ 515	
Elevation:	1229.32	ft MSL
Depth:	3.86	ft
Discharge:	710.00	cfs
Energy Gradient:	0.0087	ft/ft
Froude Number:	0.3317	
Flow Regime:	Subcritical	
Flow Area:	192.12	sq ft
Average Velocity:	3.68	ft/s
Maximum Velocity:	3.71	ft/s
Composite n:	0.0587	
Hydraulic Radius:	1.92	ft
Wetted Perimeter:	99.96	ft
Wetted Top Width:	99.66	ft
Critical Slope:	0.0806	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S15W–~~30~~ 515

Entellus™

File: T2N-R7W-S15W-New-Mapping.dwg Date: 10/14/02



Normal Depth Results

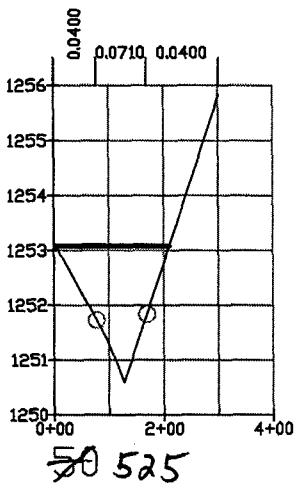
Cross-Section:	~~40~~ 520	
Elevation:	1243.02	ft MSL
Depth:	2.54	ft
Discharge:	710.00	cfs
Energy Gradient:	0.0087	ft/ft
Froude Number:	0.3016	
Flow Regime:	Subcritical	
Flow Area:	260.14	sq ft
Average Velocity:	2.72	ft/s
Maximum Velocity:	2.82	ft/s
Composite n:	0.0588	
Hydraulic Radius:	1.21	ft
Wetted Perimeter:	214.39	ft
Wetted Top Width:	214.33	ft
Critical Slope:	0.0986	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S15W–~~40~~ 520

Entellus™

File: T2N-R7W-S15W-New-Mapping.dwg Date: 10/14/02



Normal Depth Results

Cross-Section:	~~50~~ 525	
Elevation:	1253.08	ft MSL
Depth:	2.48	ft
Discharge:	710.00	cfs
Energy Gradient:	0.0087	ft/ft
Froude Number:	0.3209	
Flow Regime:	Subcritical	
Flow Area:	247.48	sq ft
Average Velocity:	2.87	ft/s
Maximum Velocity:	2.97	ft/s
Composite n:	0.0548	
Hydraulic Radius:	1.2	ft
Wetted Perimeter:	206.52	ft
Wetted Top Width:	206.46	ft
Critical Slope:	0.0852	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S15W–~~50~~ 525

Entellus™

File: T2N-R7W-S15W-New-Mapping.dwg Date: 10/14/02

Normal Depth Results

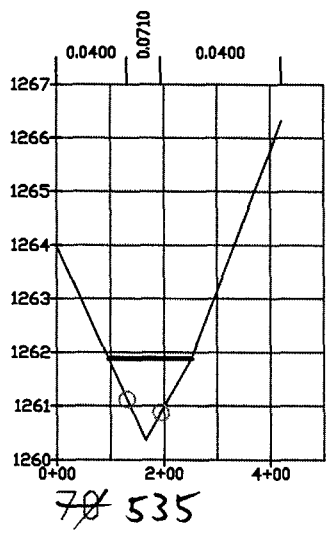
Cross-Section:	~~90~~ 530	
Elevation:	1258.17	ft MSL
Depth:	1.95	ft
Discharge:	260.00	cfs
Energy Gradient:	0.0089	ft/ft
Froude Number:	0.2928	
Flow Regime:	Subcritical	
Flow Area:	112.02	sq ft
Average Velocity:	2.33	ft/s
Maximum Velocity:	2.35	ft/s
Composite n:	0.0683	
Hydraulic Radius:	1.2	ft
Wetted Perimeter:	93.17	ft
Wetted Top Width:	93.05	ft
Critical Slope:	0.1034	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S15W–~~60~~ 530

Entellus™

File: T2N-R7W-S15W-New-Mapping.dwg Date: 10/09/02



Normal Depth Results

Cross-Section:	~~70~~ 535	
Elevation:	1261.89	ft MSL
Depth:	1.52	ft
Discharge:	260.00	cfs
Energy Gradient:	0.0089	ft/ft
Froude Number:	0.3149	
Flow Regime:	Subcritical	
Flow Area:	118.17	sq ft
Average Velocity:	2.19	ft/s
Maximum Velocity:	2.23	ft/s
Composite n:	0.0537	
Hydraulic Radius:	0.76	ft
Wetted Perimeter:	155.75	ft
Wetted Top Width:	155.72	ft
Critical Slope:	0.0916	ft/ft

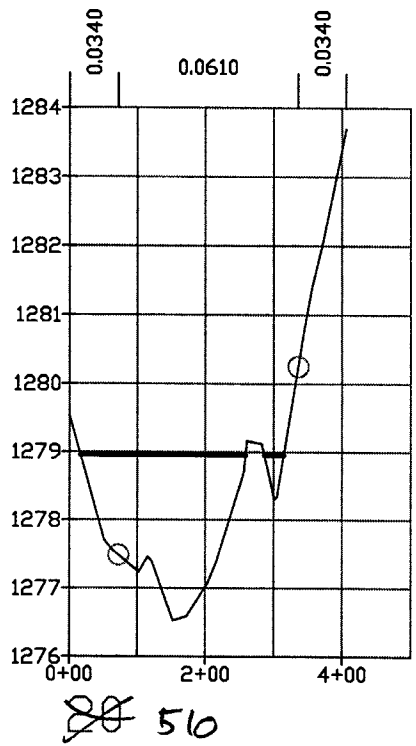
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S15W–~~70~~ 535

Entellus™

File: T2N-R7W-S15W-New-Mapping.dwg; Date: 10/09/02

T2N-R7W-S18E



Normal Depth Results

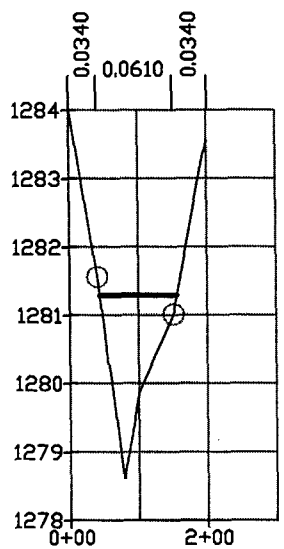
Cross-Section:	~~80~~ 510	
Elevation:	1278.96	ft MSL
Depth:	2.43	ft
Discharge:	1060.00	cfs
Energy Gradient:	0.0073	ft/ft
Froude Number:	0.3215	
Flow Regime:	Subcritical	
Flow Area:	373.13	sq ft
Average Velocity:	2.84	ft/s
Maximum Velocity:	3.50	ft/s
Composite n:	0.0559	
Hydraulic Radius:	1.38	ft
Wetted Perimeter:	271.04	ft
Wetted Top Width:	270.93	ft
Critical Slope:	0.0719	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S18E–~~80~~ 510

Entellus™

File: T2N-R7W-S18E.dwg Date: 10/10/02



~~30~~ 515

Normal Depth Results

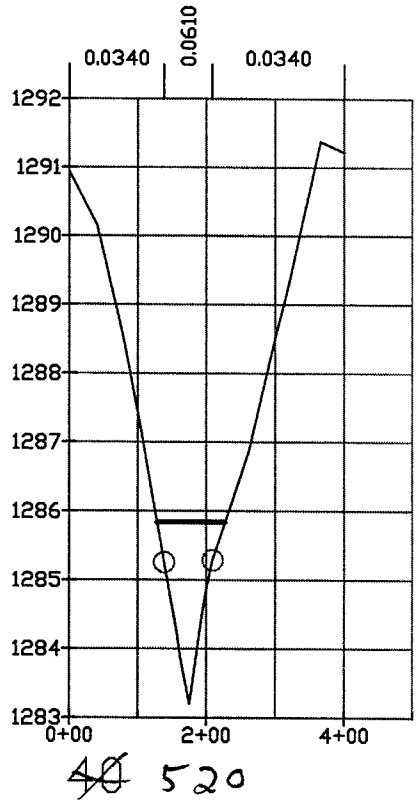
Cross-Section:	~~30~~ 515	
Elevation:	1281.29	ft MSL
Depth:	2.68	ft
Discharge:	350.00	cfs
Energy Gradient:	0.0083	ft/ft
Froude Number:	0.2788	
Flow Regime:	Subcritical	
Flow Area:	135.21	sq ft
Average Velocity:	2.58	ft/s
Maximum Velocity:	2.59	ft/s
Composite n:	0.0599	
Hydraulic Radius:	1.2	ft
Wetted Perimeter:	112.52	ft
Wetted Top Width:	112.36	ft
Critical Slope:	0.109	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S18E–~~30~~ 515

Entellus™

File: T2N-R7W-S18E.dwg Date: 10/03/02



Normal Depth Results

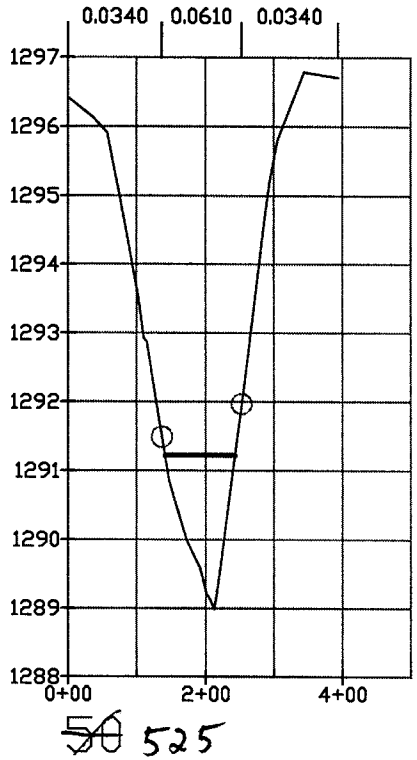
Cross-Section:	~~40~~ 520	
Elevation:	1285.84	ft MSL
Depth:	2.64	ft
Discharge:	350.00	cfs
Energy Gradient:	0.0083	ft/ft
Froude Number:	0.3188	
Flow Regime:	Subcritical	
Flow Area:	119.03	sq ft
Average Velocity:	2.92	ft/s
Maximum Velocity:	3.01	ft/s
Composite n:	0.0539	
Hydraulic Radius:	1.2	ft
Wetted Perimeter:	99.31	ft
Wetted Top Width:	99.16	ft
Critical Slope:	0.0875	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S18E–~~40~~ 520

Entellus™

File: T2N-R7W-S18E.dwg Date: 10/03/02



Normal Depth Results

Cross-Section:	~~50~~ 525	
Elevation:	1291.22	ft MSL
Depth:	2.23	ft
Discharge:	320.00	cfs
Energy Gradient:	0.0083	ft/ft
Froude Number:	0.3017	
Flow Regime:	Subcritical	
Flow Area:	125.07	sq ft
Average Velocity:	2.55	ft/s
Maximum Velocity:	2.55	ft/s
Composite n:	0.061	
Hydraulic Radius:	1.22	ft
Wetted Perimeter:	102.17	ft
Wetted Top Width:	102.05	ft
Critical Slope:	0.092	ft/ft

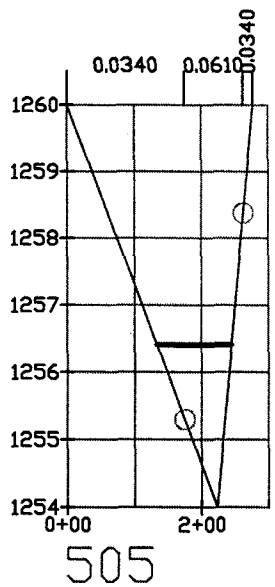
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S18E–~~50~~ 525

Entellus™

File: T2N-R7W-S18E.dwg Date: 10/03/02

T2N-R7W-S18W



Normal Depth Results

Cross-Section:	505	
Elevation:	1256.41	ft MSL
Depth:	2.41	ft
Discharge:	370.00	cfs
Energy Gradient:	0.0071	ft/ft
Froude Number:	0.3123	
Flow Regime:	Subcritical	
Flow Area:	134.49	sq ft
Average Velocity:	2.75	ft/s
Maximum Velocity:	2.80	ft/s
Composite n:	0.0518	
Hydraulic Radius:	1.2	ft
Wetted Perimeter:	111.66	ft
Wetted Top Width:	111.49	ft
Critical Slope:	0.0733	ft/ft

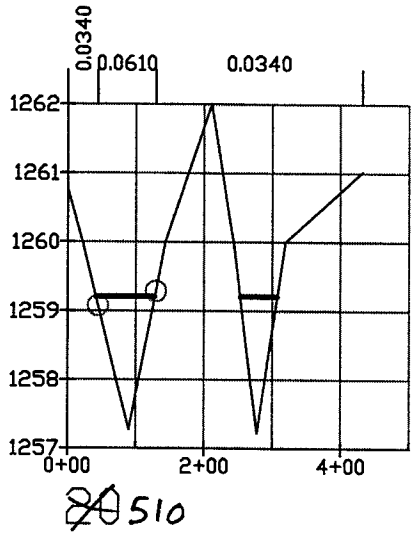
NOT USED FOR DELINEATION

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S18W–505

Entellus™

File: T2N-R7W-S18W-New-Mapping.dwg Date: 9/17/12



Normal Depth Results

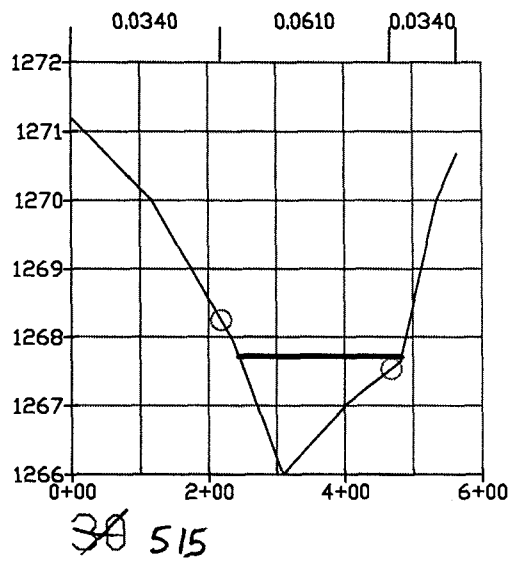
Cross-Section:	~~20~~ 510	
Elevation:	1259.21	ft MSL
Depth:	1.99	ft
Discharge:	370.00	cfs
Energy Gradient:	0.0071	ft/ft
Froude Number:	0.3343	
Flow Regime:	Subcritical	
Flow Area:	138.21	sq ft
Average Velocity:	2.70	ft/s
Maximum Velocity:	3.68	ft/s
Composite n:	0.0508	
Hydraulic Radius:	0.98	ft
Wetted Perimeter:	141.09	ft
Wetted Top Width:	140.86	ft
Critical Slope:	0.0766	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S18W–~~20~~ 510

Entellus™

File: T2N-R7W-S18W-New-Mapping.dwg Date: 10/02/02



Normal Depth Results

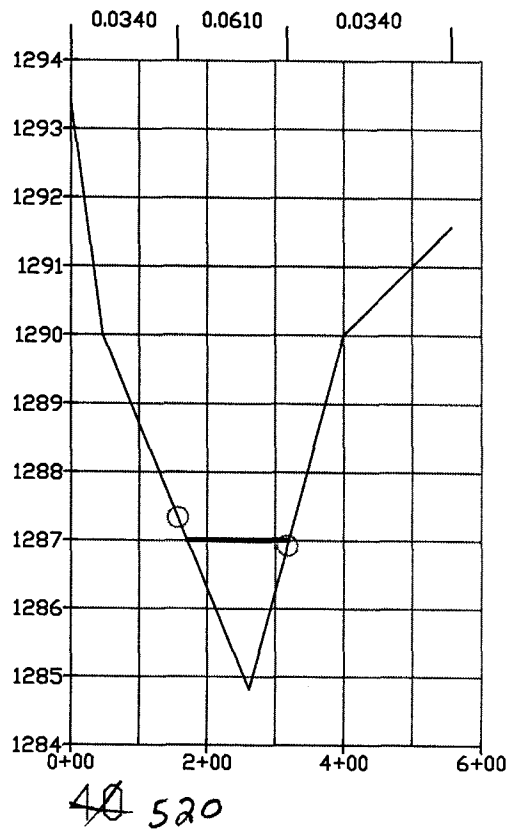
Cross-Section:	~~30~~ 515	
Elevation:	1267.72	ft MSL
Depth:	1.72	ft
Discharge:	370.00	cfs
Energy Gradient:	0.0071	ft/ft
Froude Number:	0.2496	
Flow Regime:	Subcritical	
Flow Area:	199.25	sq ft
Average Velocity:	1.89	ft/s
Maximum Velocity:	1.89	ft/s
Composite n:	0.0594	
Hydraulic Radius:	0.83	ft
Wetted Perimeter:	238.78	ft
Wetted Top Width:	238.75	ft
Critical Slope:	0.1122	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S18W–~~30~~ 515

Entellus™

File: T2N-R7W-S18W-New-Mapping.dwg Date: 10/02/02



Normal Depth Results

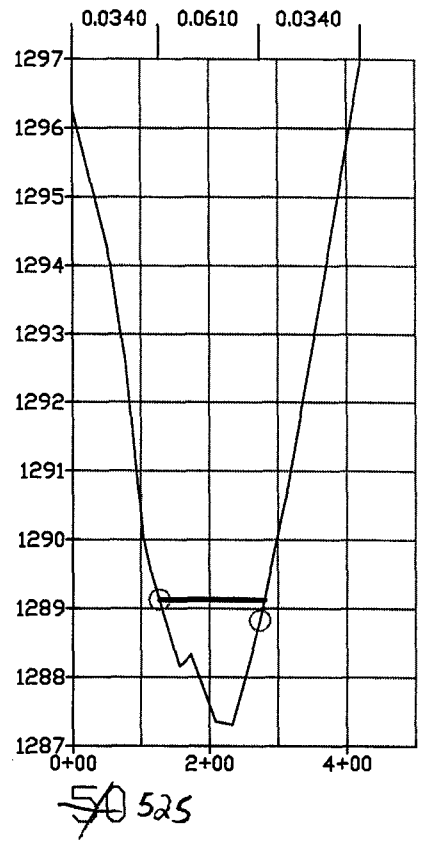
Cross-Section:	~~40~~ 520	
Elevation:	1287.01	ft MSL
Depth:	2.19	ft
Discharge:	370.00	cfs
Energy Gradient:	0.0074	ft/ft
Froude Number:	0.2697	
Flow Regime:	Subcritical	
Flow Area:	163.37	sq ft
Average Velocity:	2.25	ft/s
Maximum Velocity:	2.25	ft/s
Composite n:	0.0606	
Hydraulic Radius:	1.09	ft
Wetted Perimeter:	149.21	ft
Wetted Top Width:	149.14	ft
Critical Slope:	0.1035	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S18W–~~40~~ 520

Entellus™

File: T2N-R7W-S18W-New-Mapping.dwg Date: 10/02/02



Normal Depth Results

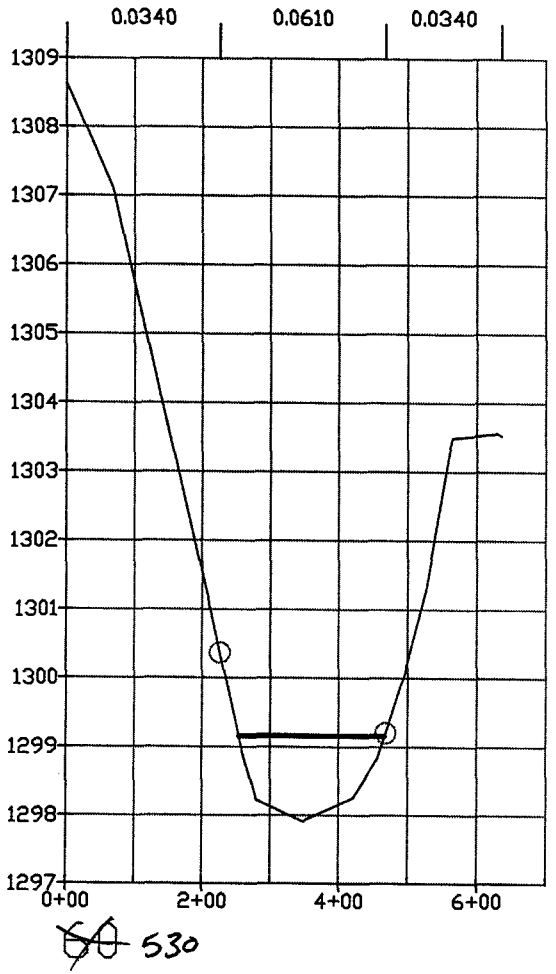
Cross-Section:	~~50~~ 525	
Elevation:	1289.13	ft MSL
Depth:	1.82	ft
Discharge:	370.00	cfs
Energy Gradient:	0.0074	ft/ft
Froude Number:	0.2941	
Flow Regime:	Subcritical	
Flow Area:	164.25	sq ft
Average Velocity:	2.25	ft/s
Maximum Velocity:	2.25	ft/s
Composite n:	0.06	
Hydraulic Radius:	1.07	ft
Wetted Perimeter:	153.51	ft
Wetted Top Width:	153.44	ft
Critical Slope:	0.0868	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S18W–~~50~~ 525

Entellus™

File: T2N-R7W-S18W.dwg Date: 10/02/02



Normal Depth Results

Cross-Section:	~~60~~ 530	
Elevation:	1299.16	ft MSL
Depth:	1.25	ft
Discharge:	370.00	cfs
Energy Gradient:	0.0074	ft/ft
Froude Number:	0.3094	
Flow Regime:	Subcritical	
Flow Area:	188.57	sq ft
Average Velocity:	1.94	ft/s
Maximum Velocity:	1.94	ft/s
Composite n:	0.061	
Hydraulic Radius:	0.89	ft
Wetted Perimeter:	212.71	ft
Wetted Top Width:	212.68	ft
Critical Slope:	0.0791	ft/ft

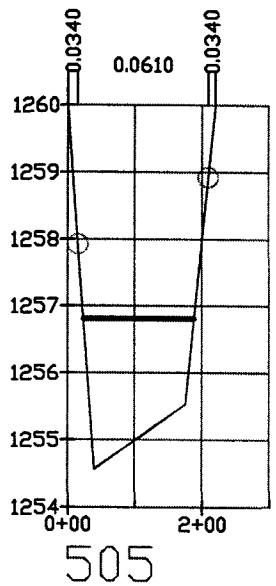
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S18W–~~60~~ 530

Entellus™

File: T2N-R7W-S18W.dwg Date: 10/02/02

T2N-R7W-S19E



Normal Depth Results

Cross-Section:	505	
Elevation:	1256.81	ft MSL
Depth:	2.25	ft
Discharge:	750.00	cfs
Energy Gradient:	0.0071	ft/ft
Froude Number:	0.331	
Flow Regime:	Subcritical	
Flow Area:	266.12	sq ft
Average Velocity:	2.83	ft/s
Maximum Velocity:	2.83	ft/s
Composite n:	0.061	
Hydraulic Radius:	1.61	ft
Wetted Perimeter:	164.90	ft
Wetted Top Width:	164.68	ft
Critical Slope:	0.0641	ft/ft

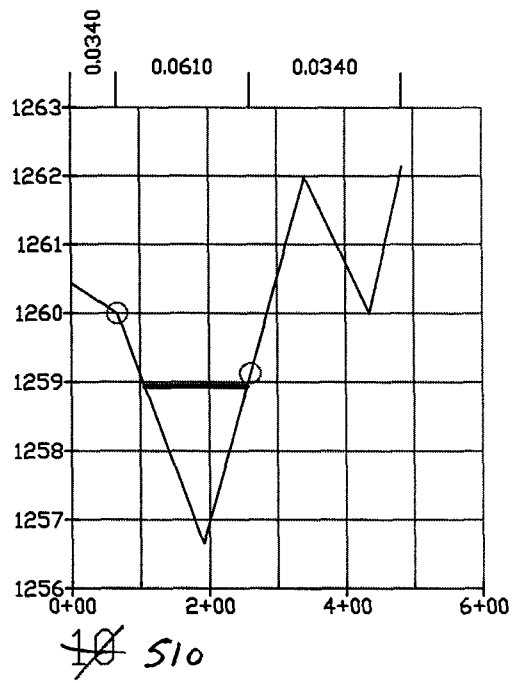
NOT USED IN DELINEATION

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S19E–505

Entellus™

File: T2N-R7W-S19E-New-Mapping.dwg Date: 9/13/02



Normal Depth Results

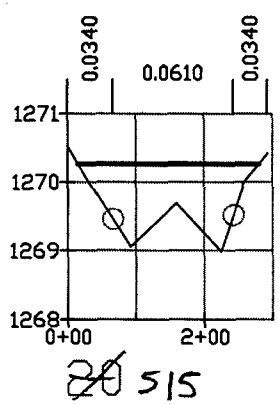
Cross-Section:	~~10~~ 510	
Elevation:	1258.94	ft MSL
Depth:	2.28	ft
Discharge:	380.00	cfs
Energy Gradient:	0.0071	ft/ft
Froude Number:	0.2631	
Flow Regime:	Subcritical	
Flow Area:	168.74	sq ft
Average Velocity:	2.24	ft/s
Maximum Velocity:	2.24	ft/s
Composite n:	0.061	
Hydraulic Radius:	1.14	ft
Wetted Perimeter:	148.31	ft
Wetted Top Width:	148.24	ft
Critical Slope:	0.1033	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S19E–~~10~~ 510

Entellus™

File: T2N-R7W-S19E-New-Mapping.dwg Date: 10/02/02



Normal Depth Results

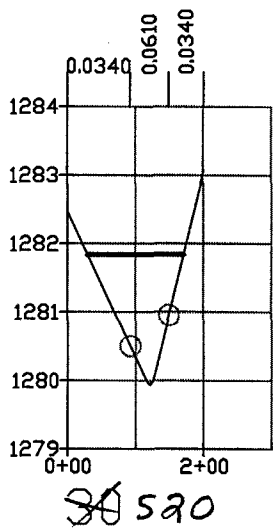
Cross-Section:	~~20~~ 515	
Elevation:	1270.26	ft MSL
Depth:	1.27	ft
Discharge:	380.00	cfs
Energy Gradient:	0.0071	ft/ft
Froude Number:	0.3029	
Flow Regime:	Subcritical	
Flow Area:	195.99	sq ft
Average Velocity:	1.95	ft/s
Maximum Velocity:	2.04	ft/s
Composite n:	0.0528	
Hydraulic Radius:	0.74	ft
Wetted Perimeter:	264.88	ft
Wetted Top Width:	264.85	ft
Critical Slope:	0.0768	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S19E–~~20~~515

Entellus™

File: T2N-R7W-S19E-New-Mapping.dwg Date: 10/02/02



Normal Depth Results

Cross-Section:	~~30~~ 520	
Elevation:	1281.84	ft MSL
Depth:	1.90	ft
Discharge:	380.00	cfs
Energy Gradient:	0.0071	ft/ft
Froude Number:	0.3482	
Flow Regime:	Subcritical	
Flow Area:	139.52	sq ft
Average Velocity:	2.73	ft/s
Maximum Velocity:	2.81	ft/s
Composite n:	0.0458	
Hydraulic Radius:	0.99	ft
Wetted Perimeter:	141.51	ft
Wetted Top Width:	141.46	ft
Critical Slope:	0.059	ft/ft

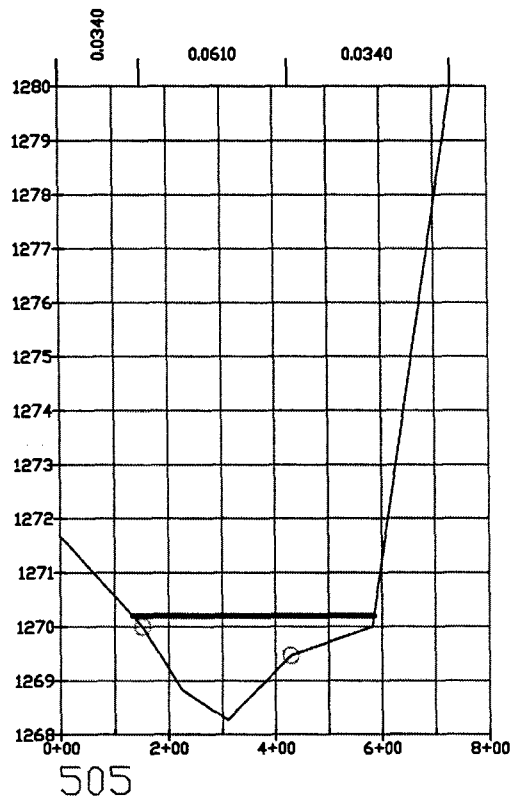
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S19E–~~30~~ 520

Entellus™

File: T2N-R7W-S19E-New-Mapping.dwg Date: 10/10/02

T2N-R7W-S19W



Normal Depth Results

Cross-Section:	505	
Elevation:	1270.20	ft MSL
Depth:	1.93	ft
Discharge:	1020.00	cfs
Energy Gradient:	0.007	ft/ft
Froude Number:	0.3	
Flow Regime:	Subcritical	
Flow Area:	431.06	sq ft
Average Velocity:	2.37	ft/s
Maximum Velocity:	2.42	ft/s
Composite n:	0.0514	
Hydraulic Radius:	0.95	ft
Wetted Perimeter:	452.21	ft
Wetted Top Width:	452.18	ft
Critical Slope:	0.0789	ft/ft

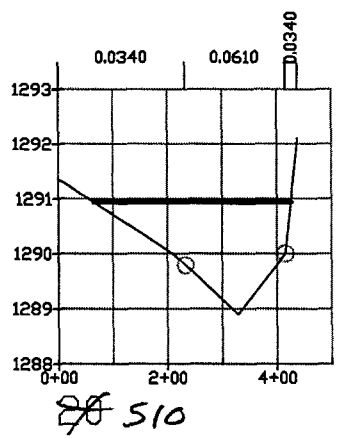
NOT USED IN DELINEATION

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S19W–505

Entellus™

File: T2N-R7W-S19W-New-Mapping.dwg Date: 9/03/02



Normal Depth Results

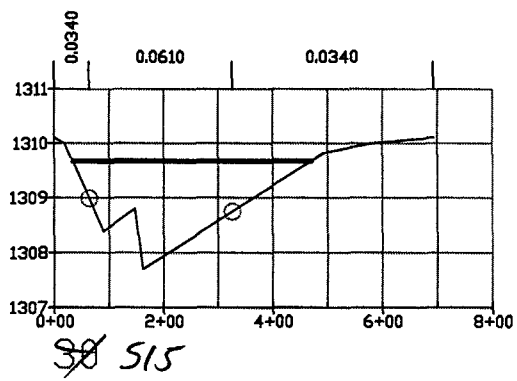
Cross-Section:	~~20~~ 510	
Elevation:	1290.94	ft MSL
Depth:	2.04	ft
Discharge:	1020.00	cfs
Energy Gradient:	0.007	ft/ft
Froude Number:	0.3301	
Flow Regime:	Subcritical	
Flow Area:	380.97	sq ft
Average Velocity:	2.66	ft/s
Maximum Velocity:	2.74	ft/s
Composite n:	0.0486	
Hydraulic Radius:	1.05	ft
Wetted Perimeter:	361.36	ft
Wetted Top Width:	361.30	ft
Critical Slope:	0.0653	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S19W–~~20~~ 510

Entellus™

File: T2N-R7W-S19W-New-Mapping.dwg Date: 10/10/02



Normal Depth Results

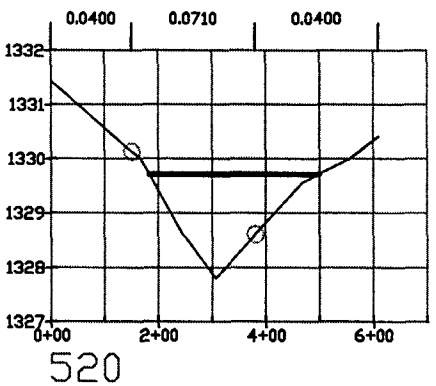
Cross-Section:	~~30~~ 515	
Elevation:	1309.67	ft MSL
Depth:	1.97	ft
Discharge:	1020.00	cfs
Energy Gradient:	0.007	ft/ft
Froude Number:	0.3022	
Flow Regime:	Subcritical	
Flow Area:	423.69	sq ft
Average Velocity:	2.40	ft/s
Maximum Velocity:	2.46	ft/s
Composite n:	0.0511	
Hydraulic Radius:	0.97	ft
Wetted Perimeter:	437.04	ft
Wetted Top Width:	436.97	ft
Critical Slope:	0.0778	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S19W–~~30~~ 515

Entellus™

File: T2N-R7W-S19W-New-Mapping.dwg Date: 10/02/02



Normal Depth Results

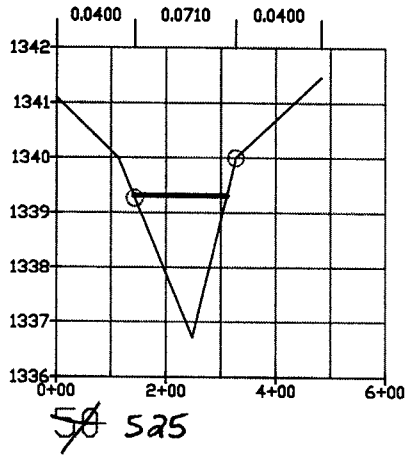
Cross-Section:	520	
Elevation:	1329.72	ft MSL
Depth:	1.92	ft
Discharge:	590.00	cfs
Energy Gradient:	0.007	ft/ft
Froude Number:	0.2532	
Flow Regime:	Subcritical	
Flow Area:	296.59	sq ft
Average Velocity:	1.98	ft/s
Maximum Velocity:	1.99	ft/s
Composite n:	0.0603	
Hydraulic Radius:	0.94	ft
Wetted Perimeter:	316.70	ft
Wetted Top Width:	316.67	ft
Critical Slope:	0.1105	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S19W–520

Entellus™

File: T2N-R7W-S19W-New-Mapping.dwg Date: 9/03/02



Normal Depth Results

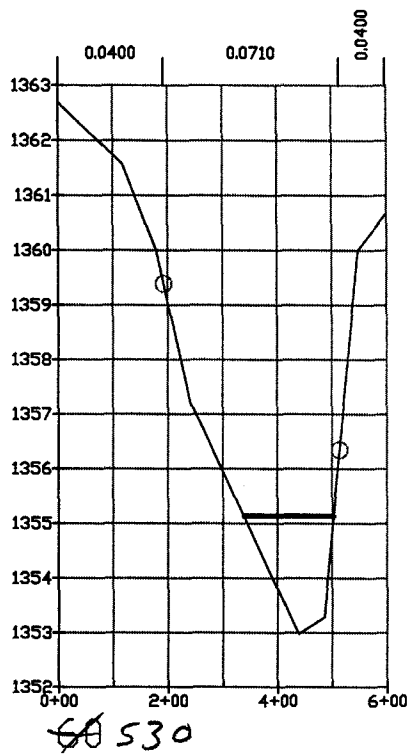
Cross-Section:	~~50~~ 525	
Elevation:	1339.32	ft MSL
Depth:	2.60	ft
Discharge:	460.00	cfs
Energy Gradient:	0.007	ft/ft
Froude Number:	0.2288	
Flow Regime:	Subcritical	
Flow Area:	219.85	sq ft
Average Velocity:	2.11	ft/s
Maximum Velocity:	2.11	ft/s
Composite n:	0.0706	
Hydraulic Radius:	1.3	ft
Wetted Perimeter:	169.30	ft
Wetted Top Width:	169.21	ft
Critical Slope:	0.1327	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S19W–~~50~~ 525

Entellus™

File: T2N-R7W-S19W-New-Mapping.dwg Date: 10/02/02



Normal Depth Results

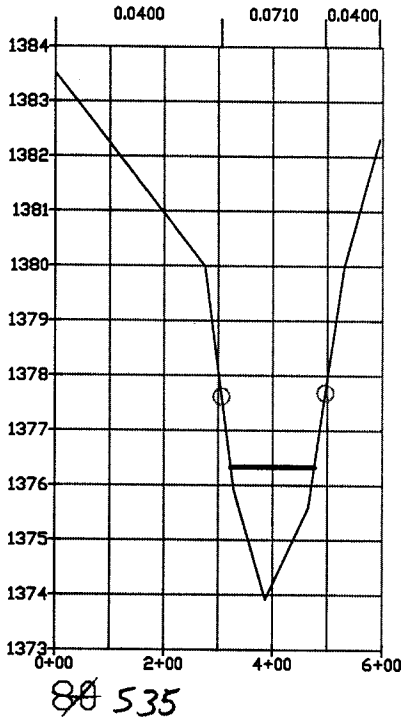
Cross-Section:	~~60~~ 530	
Elevation:	1355.14	ft MSL
Depth:	2.16	ft
Discharge:	460.00	cfs
Energy Gradient:	0.007	ft/ft
Froude Number:	0.2539	
Flow Regime:	Subcritical	
Flow Area:	217.40	sq ft
Average Velocity:	2.12	ft/s
Maximum Velocity:	2.12	ft/s
Composite n:	0.071	
Hydraulic Radius:	1.32	ft
Wetted Perimeter:	164.29	ft
Wetted Top Width:	164.17	ft
Critical Slope:	0.1085	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S19W–~~60~~ 530

Entellus™

File: T2N-R7W-S19W-New-Mapping.dwg Date: 10/02/02



Normal Depth Results

Cross-Section:	~~80~~ 535	
Elevation:	1376.33	ft MSL
Depth:	2.41	ft
Discharge:	460.00	cfs
Energy Gradient:	0.007	ft/ft
Froude Number:	0.2471	
Flow Regime:	Subcritical	
Flow Area:	211.32	sq ft
Average Velocity:	2.17	ft/s
Maximum Velocity:	2.17	ft/s
Composite n:	0.071	
Hydraulic Radius:	1.38	ft
Wetted Perimeter:	153.43	ft
Wetted Top Width:	153.34	ft
Critical Slope:	0.1149	ft/ft

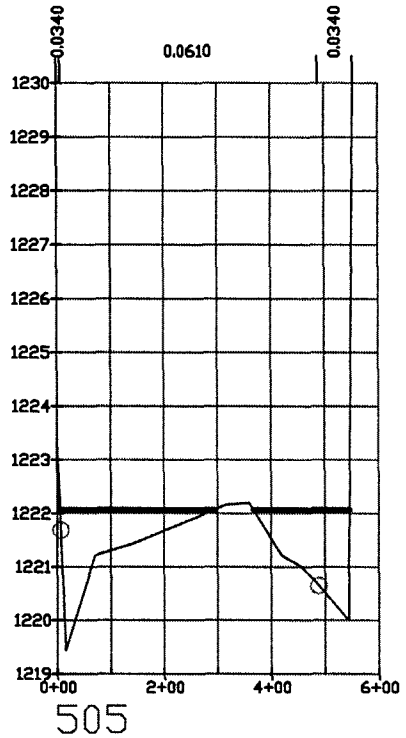
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S19W–~~80~~ 535

Entellus™

File: T2N-R7W-S19W-New-Mapping.dwg Date: 10/02/02

T2N-R7W-S20E



Normal Depth Results

Cross-Section:	505	
Elevation:	1222.07	ft MSL
Depth:	2.63	ft
Discharge:	1150.00	cfs
Energy Gradient:	0.0084	ft/ft
Froude Number:	0.3053	
Flow Regime:	Subcritical	
Flow Area:	409.18	sq ft
Average Velocity:	2.80	ft/s
Maximum Velocity:	5.72	ft/s
Composite n:	0.0579	
Hydraulic Radius:	0.87	ft
Wetted Perimeter:	469.51	ft
Wetted Top Width:	468.26	ft
Critical Slope:	0.1537	ft/ft

NOT USED IN DELINEATION

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20E–505

Entellus™

File: T2N-R7W-S20E-New-Mapping.dwg; Date: 9/03/02

Normal Depth Results

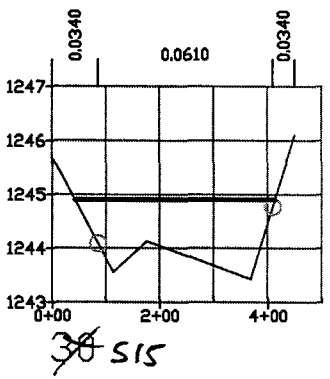
Cross-Section:	~~20~~ 510	
Elevation:	1231.02	ft MSL
Depth:	1.93	ft
Discharge:	850.00	cfs
Energy Gradient:	0.0084	ft/ft
Froude Number:	0.3134	
Flow Regime:	Subcritical	
Flow Area:	344.30	sq ft
Average Velocity:	2.45	ft/s
Maximum Velocity:	3.02	ft/s
Composite n:	0.0492	
Hydraulic Radius:	0.81	ft
Wetted Perimeter:	424.67	ft
Wetted Top Width:	424.55	ft
Critical Slope:	0.0896	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20E–~~20~~ 510

Entellus™

File: T2N-R7W-S20E-New-Mapping.dwg Date: 10/09/02



Normal Depth Results

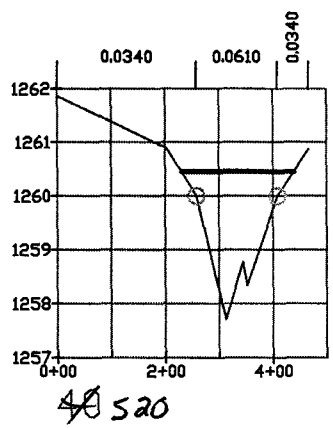
Cross-Section:	~~30~~ 515	
Elevation:	1244.91	ft MSL
Depth:	1.48	ft
Discharge:	850.00	cfs
Energy Gradient:	0.0084	ft/ft
Froude Number:	0.3383	
Flow Regime:	Subcritical	
Flow Area:	364.54	sq ft
Average Velocity:	2.33	ft/s
Maximum Velocity:	2.34	ft/s
Composite n:	0.0579	
Hydraulic Radius:	0.98	ft
Wetted Perimeter:	371.54	ft
Wetted Top Width:	371.50	ft
Critical Slope:	0.0736	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20E–~~30~~ 515

Entellus™

File: T2N-R7W-S20E-New-Mapping.dwg; Date: 10/09/02



Normal Depth Results

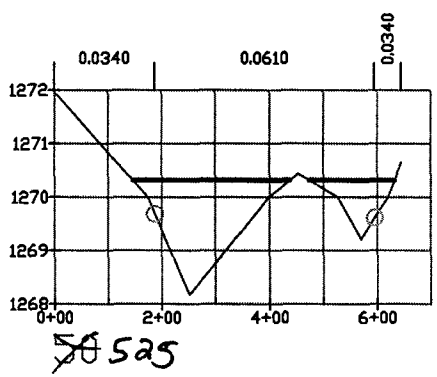
Cross-Section:	~~40~~ 520	
Elevation:	1260.45	ft MSL
Depth:	2.74	ft
Discharge:	770.00	cfs
Energy Gradient:	0.0084	ft/ft
Froude Number:	0.3179	
Flow Regime:	Subcritical	
Flow Area:	257.73	sq ft
Average Velocity:	3.01	ft/s
Maximum Velocity:	3.10	ft/s
Composite n:	0.0541	
Hydraulic Radius:	1.24	ft
Wetted Perimeter:	208.64	ft
Wetted Top Width:	208.53	ft
Critical Slope:	0.088	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20E–~~40~~ 520

Entellus™

File: T2N-R7W-S20E-New-Mapping.dwg, Date: 10/09/02



Normal Depth Results

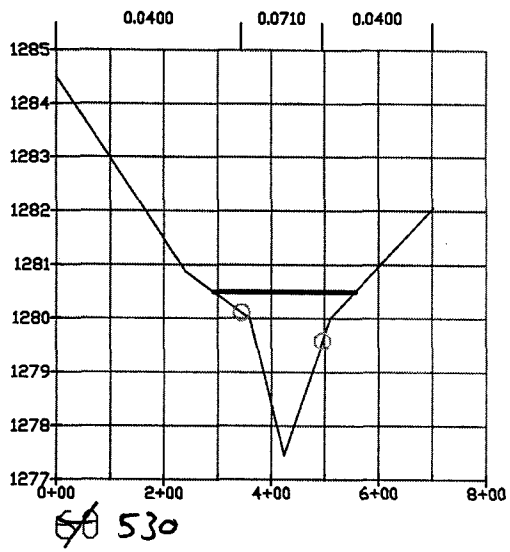
Cross-Section:	~~50~~ 525	
Elevation:	1270.32	ft MSL
Depth:	2.15	ft
Discharge:	770.00	cfs
Energy Gradient:	0.0084	ft/ft
Froude Number:	0.2534	
Flow Regime:	Subcritical	
Flow Area:	365.39	sq ft
Average Velocity:	2.09	ft/s
Maximum Velocity:	2.15	ft/s
Composite n:	0.0568	
Hydraulic Radius:	0.81	ft
Wetted Perimeter:	450.87	ft
Wetted Top Width:	450.82	ft
Critical Slope:	0.1331	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20E–~~50~~ 525

Entellus™

File: T2N-R7W-S20E-New-Mapping.dwg; Date: 10/09/02



Normal Depth Results

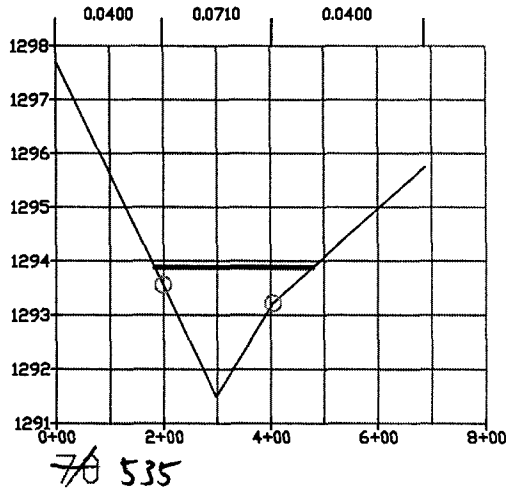
Cross-Section:	~~60~~ 530	
Elevation:	1280.50	ft MSL
Depth:	3.04	ft
Discharge:	770.00	cfs
Energy Gradient:	0.0084	ft/ft
Froude Number:	0.2651	
Flow Regime:	Subcritical	
Flow Area:	293.81	sq ft
Average Velocity:	2.64	ft/s
Maximum Velocity:	2.77	ft/s
Composite n:	0.0587	
Hydraulic Radius:	1.11	ft
Wetted Perimeter:	264.55	ft
Wetted Top Width:	264.46	ft
Critical Slope:	0.1322	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20E–~~60~~ 530

Entellus™

File: T2N-R7W-S20E-New-Mapping.dwg Date: 10/09/02



Normal Depth Results

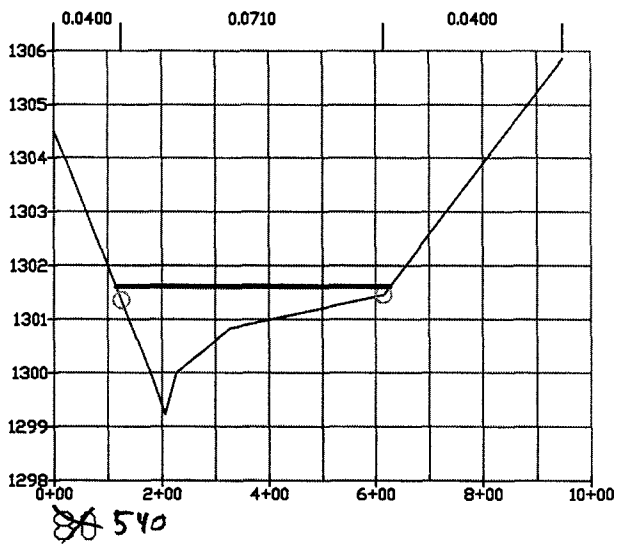
Cross-Section:	~~70~~ 535	
Elevation:	1293.88	ft MSL
Depth:	2.39	ft
Discharge:	770.00	cfs
Energy Gradient:	0.0084	ft/ft
Froude Number:	0.2709	
Flow Regime:	Subcritical	
Flow Area:	324.06	sq ft
Average Velocity:	2.38	ft/s
Maximum Velocity:	2.46	ft/s
Composite n:	0.0624	
Hydraulic Radius:	1.1	ft
Wetted Perimeter:	295.20	ft
Wetted Top Width:	295.16	ft
Critical Slope:	0.1193	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20E–~~70~~ 535

Entellus™

File: T2N-R7W-S20E-New-Mapping.dwg; Date: 10/09/02



Normal Depth Results

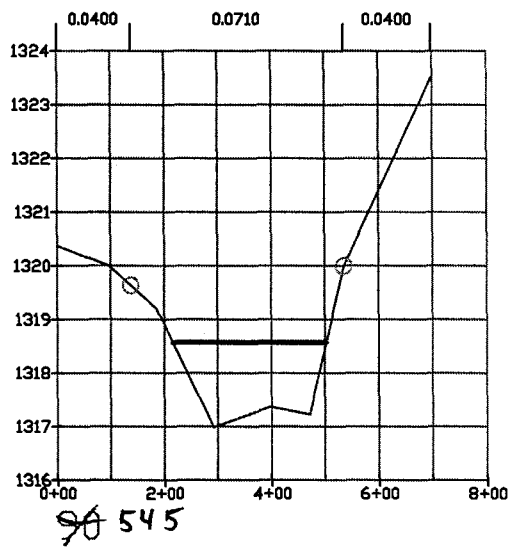
Cross-Section:	~~90~~ 540	
Elevation:	1301.61	ft MSL
Depth:	2.38	ft
Discharge:	690.00	cfs
Energy Gradient:	0.0089	ft/ft
Froude Number:	0.1953	
Flow Regime:	Subcritical	
Flow Area:	403.44	sq ft
Average Velocity:	1.73	ft/s
Maximum Velocity:	1.73	ft/s
Composite n:	0.0698	
Hydraulic Radius:	0.79	ft
Wetted Perimeter:	512.29	ft
Wetted Top Width:	512.24	ft
Critical Slope:	0.2316	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20E–~~80~~ 540

Entellus™

File: T2N-R7W-S20E-New-Mapping.dwg Date: 10/09/02



Normal Depth Results

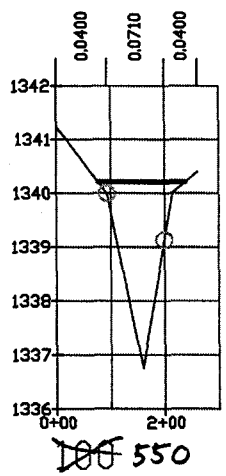
Cross-Section:	~~90~~ 545	
Elevation:	1318.58	ft MSL
Depth:	1.59	ft
Discharge:	690.00	cfs
Energy Gradient:	0.0089	ft/ft
Froude Number:	0.2986	
Flow Regime:	Subcritical	
Flow Area:	323.07	sq ft
Average Velocity:	2.15	ft/s
Maximum Velocity:	2.15	ft/s
Composite n:	0.071	
Hydraulic Radius:	1.13	ft
Wetted Perimeter:	286.26	ft
Wetted Top Width:	286.21	ft
Critical Slope:	0.0988	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20E–~~90~~ 545

Entellus™

File: T2N-k7W-S20E-New-Mapping.dwg; Date: 10/09/02



Normal Depth Results

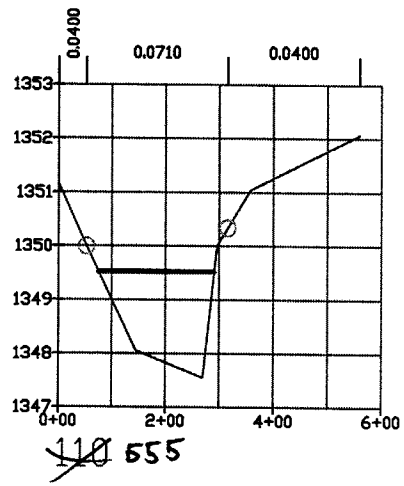
Cross-Section:	~~100~~ 550	
Elevation:	1340.21	ft MSL
Depth:	3.45	ft
Discharge:	690.00	cfs
Energy Gradient:	0.0089	ft/ft
Froude Number:	0.2893	
Flow Regime:	Subcritical	
Flow Area:	226.19	sq ft
Average Velocity:	3.04	ft/s
Maximum Velocity:	3.14	ft/s
Composite n:	0.0612	
Hydraulic Radius:	1.39	ft
Wetted Perimeter:	162.35	ft
Wetted Top Width:	162.17	ft
Critical Slope:	0.1206	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20E–~~100~~ 550a

Entellus™

File: T2N-R7W-S20E-New-Mapping.dwg Date: 10/09/02



Normal Depth Results

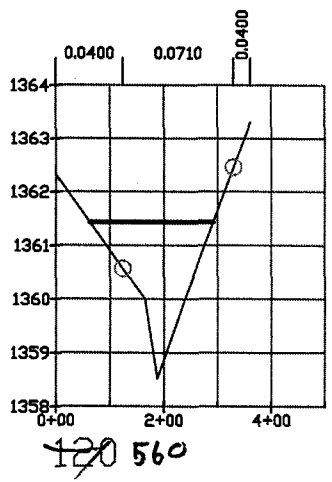
Cross-Section:	~~110~~ 555	
Elevation:	1349.53	ft MSL
Depth:	1.98	ft
Discharge:	690.00	cfs
Energy Gradient:	0.0089	ft/ft
Froude Number:	0.3014	
Flow Regime:	Subcritical	
Flow Area:	286.90	sq ft
Average Velocity:	2.39	ft/s
Maximum Velocity:	2.39	ft/s
Composite n:	0.071	
Hydraulic Radius:	1.33	ft
Wetted Perimeter:	215.87	ft
Wetted Top Width:	215.76	ft
Critical Slope:	0.0988	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20E–~~110~~ 555

Entellus™

File: T2N-R7W-S20E-New-Mapping.dwg Date: 10/09/02



Normal Depth Results

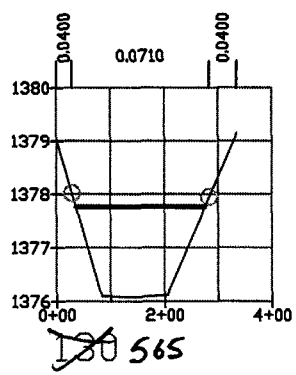
Cross-Section:	~~120~~ 560	
Elevation:	1361.44	ft MSL
Depth:	2.92	ft
Discharge:	690.00	cfs
Energy Gradient:	0.0089	ft/ft
Froude Number:	0.2607	
Flow Regime:	Subcritical	
Flow Area:	273.22	sq ft
Average Velocity:	2.50	ft/s
Maximum Velocity:	2.56	ft/s
Composite n:	0.0634	
Hydraulic Radius:	1.19	ft
Wetted Perimeter:	229.46	ft
Wetted Top Width:	229.36	ft
Critical Slope:	0.1349	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20E–~~120~~ 560

Entellus™

File: T2N-R7W-S20E-New-Mapping.dwg, Date: 10/09/02



Normal Depth Results

Cross-Section:	~~130~~ 565	
Elevation:	1377.77	ft MSL
Depth:	1.69	ft
Discharge:	690.00	cfs
Energy Gradient:	0.0089	ft/ft
Froude Number:	0.3112	
Flow Regime:	Subcritical	
Flow Area:	300.97	sq ft
Average Velocity:	2.30	ft/s
Maximum Velocity:	2.30	ft/s
Composite n:	0.071	
Hydraulic Radius:	1.25	ft
Wetted Perimeter:	239.87	ft
Wetted Top Width:	239.82	ft
Critical Slope:	0.091	ft/ft

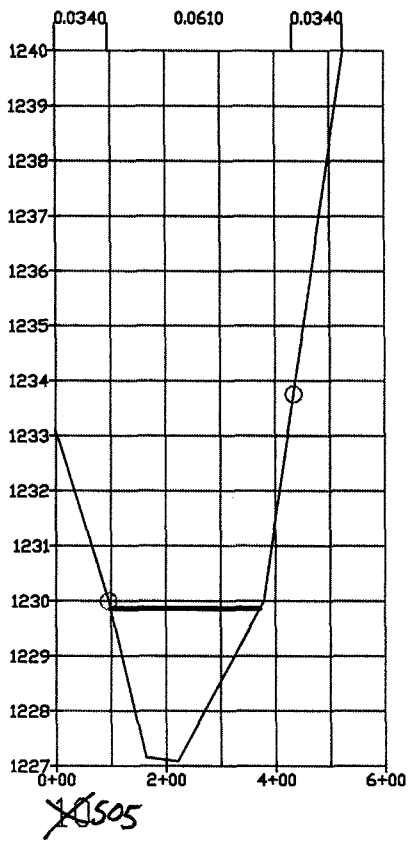
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20E–1~~30~~ 565

Entellus™

File: T2N-R7W-S20E-New-Mapping.dwg, Date: 10/09/02

T2N-R7W-S20W



Normal Depth Results

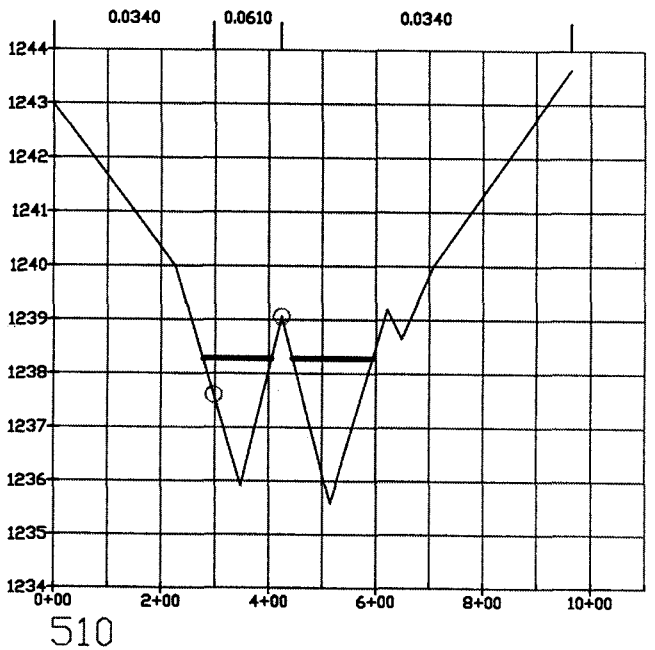
Cross-Section:	~~10~~ 505	
Elevation:	1229.86	ft MSL
Depth:	2.77	ft
Discharge:	1330.00	cfs
Energy Gradient:	0.0073	ft/ft
Froude Number:	0.311	
Flow Regime:	Subcritical	
Flow Area:	452.63	sq ft
Average Velocity:	2.93	ft/s
Maximum Velocity:	2.93	ft/s
Composite n:	0.061	
Hydraulic Radius:	1.66	ft
Wetted Perimeter:	272.13	ft
Wetted Top Width:	272.05	ft
Critical Slope:	0.0759	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20W–~~10~~505

Entellus™

File: T2N-R7W-S20W-New-Mapping.dwg Date: 10/02/02



Normal Depth Results

Cross-Section:	510	
Elevation:	1238.28	ft MSL
Depth:	2.69	ft
Discharge:	1300.00	cfs
Energy Gradient:	0.0073	ft/ft
Froude Number:	0.396	
Flow Regime:	Subcritical	
Flow Area:	352.68	sq ft
Average Velocity:	3.69	ft/s
Maximum Velocity:	4.56	ft/s
Composite n:	0.0453	
Hydraulic Radius:	1.27	ft
Wetted Perimeter:	277.65	ft
Wetted Top Width:	277.46	ft
Critical Slope:	0.0583	ft/ft

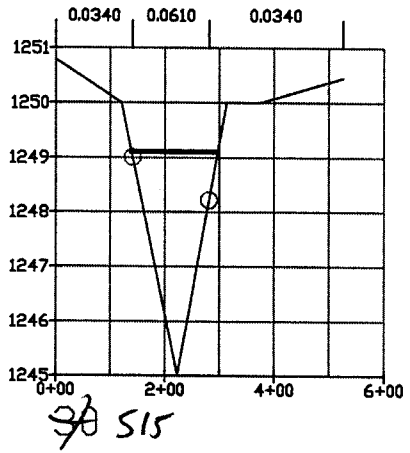
NOT USED IN DELINEATION

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20W–510

Entellus™

File: T2N-K7W-S20W-New-Mapping.dwg, Date: 9/03/02



Normal Depth Results

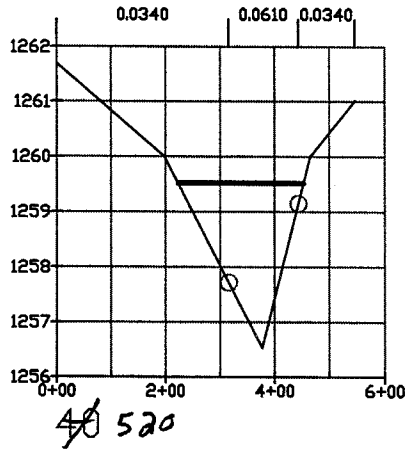
Cross-Section:	~~30~~ 515	
Elevation:	1249.11	ft MSL
Depth:	4.10	ft
Discharge:	1160.00	cfs
Energy Gradient:	0.0073	ft/ft
Froude Number:	0.3117	
Flow Regime:	Subcritical	
Flow Area:	324.01	sq ft
Average Velocity:	3.56	ft/s
Maximum Velocity:	3.60	ft/s
Composite n:	0.0582	
Hydraulic Radius:	2.05	ft
Wetted Perimeter:	158.27	ft
Wetted Top Width:	158.06	ft
Critical Slope:	0.0775	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20W–~~30~~ 515

Entellus™

File: T2N-R7W-S20W-New-Mapping.dwg Date: 10/02/02



Normal Depth Results

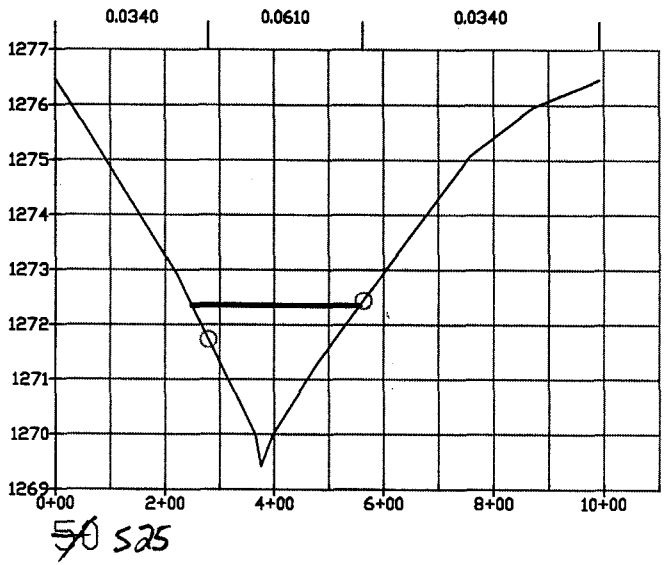
Cross-Section:	~~40~~ 520	
Elevation:	1259.52	ft MSL
Depth:	2.99	ft
Discharge:	1160.00	cfs
Energy Gradient:	0.0073	ft/ft
Froude Number:	0.3442	
Flow Regime:	Subcritical	
Flow Area:	343.58	sq ft
Average Velocity:	3.36	ft/s
Maximum Velocity:	3.49	ft/s
Composite n:	0.0499	
Hydraulic Radius:	1.49	ft
Wetted Perimeter:	230.06	ft
Wetted Top Width:	229.97	ft
Critical Slope:	0.0631	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20W–~~40~~ 520

Entellus™

File: T2N-R7W-S20W-New-Mapping.dwg Date: 10/02/02



Normal Depth Results

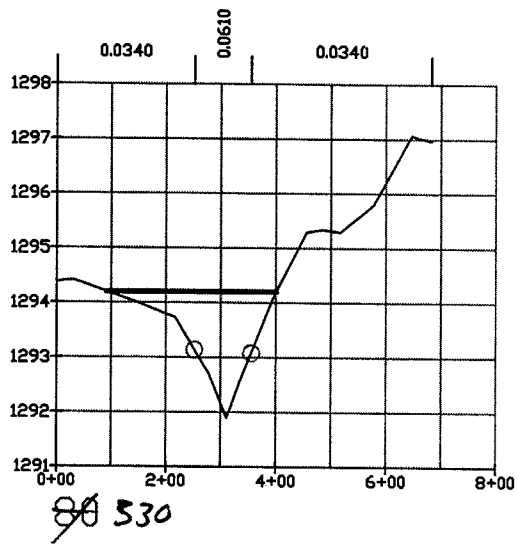
Cross-Section:	~~50~~ 525	
Elevation:	1272.35	ft MSL
Depth:	2.93	ft
Discharge:	1060.00	cfs
Energy Gradient:	0.0073	ft/ft
Froude Number:	0.2709	
Flow Regime:	Subcritical	
Flow Area:	402.83	sq ft
Average Velocity:	2.61	ft/s
Maximum Velocity:	2.64	ft/s
Composite n:	0.0586	
Hydraulic Radius:	1.31	ft
Wetted Perimeter:	307.70	ft
Wetted Top Width:	307.64	ft
Critical Slope:	0.1019	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20W–~~50~~ 525

Entellus™

File: T2N-R7W-S20W-New-Mapping.dwg Date: 10/02/02



Normal Depth Results

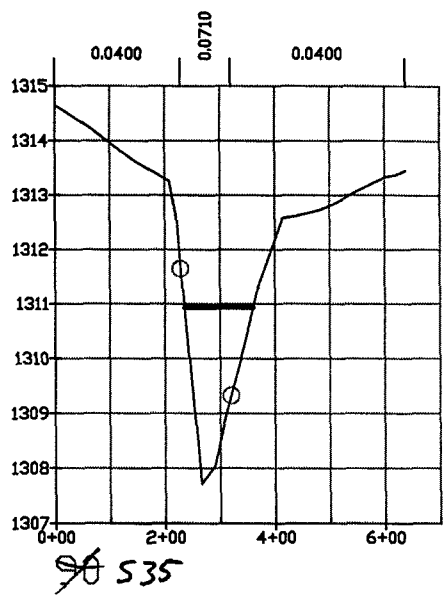
Cross-Section:	~~90~~ 530	
Elevation:	1294.20	ft MSL
Depth:	2.30	ft
Discharge:	710.00	cfs
Energy Gradient:	0.0082	ft/ft
Froude Number:	0.328	
Flow Regime:	Subcritical	
Flow Area:	251.50	sq ft
Average Velocity:	2.80	ft/s
Maximum Velocity:	3.09	ft/s
Composite n:	0.0439	
Hydraulic Radius:	0.81	ft
Wetted Perimeter:	309.98	ft
Wetted Top Width:	309.94	ft
Critical Slope:	0.085	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20W–~~90~~ 530

Entellus™

File: T2N-R7W-S20W.dwg Date: 10/02/02



Normal Depth Results

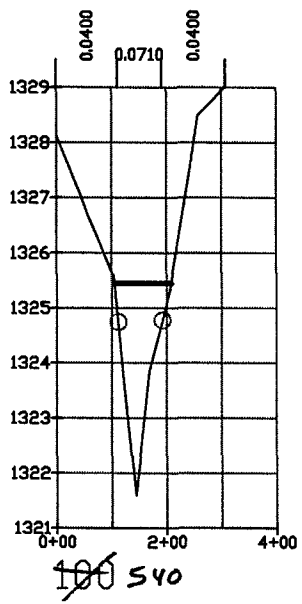
Cross-Section:	~~90~~ 535	
Elevation:	1310.94	ft MSL
Depth:	3.22	ft
Discharge:	710.00	cfs
Energy Gradient:	0.0082	ft/ft
Froude Number:	0.3143	
Flow Regime:	Subcritical	
Flow Area:	222.01	sq ft
Average Velocity:	3.20	ft/s
Maximum Velocity:	3.24	ft/s
Composite n:	0.0619	
Hydraulic Radius:	1.78	ft
Wetted Perimeter:	124.80	ft
Wetted Top Width:	124.57	ft
Critical Slope:	0.0829	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20W–~~90~~ 535

Entellus™

File: T2N-R7W-S20W.dwg Date: 10/02/02



Normal Depth Results

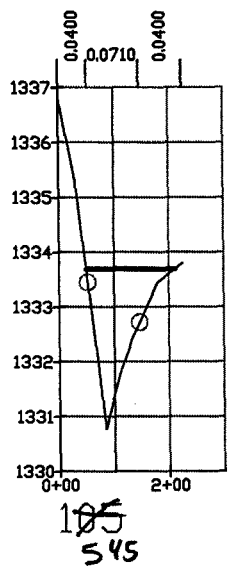
Cross-Section:	~~100~~ 540	
Elevation:	1325.45	ft MSL
Depth:	3.85	ft
Discharge:	540.00	cfs
Energy Gradient:	0.0082	ft/ft
Froude Number:	0.2734	
Flow Regime:	Subcritical	
Flow Area:	177.41	sq ft
Average Velocity:	3.04	ft/s
Maximum Velocity:	3.10	ft/s
Composite n:	0.0648	
Hydraulic Radius:	1.71	ft
Wetted Perimeter:	103.94	ft
Wetted Top Width:	103.62	ft
Critical Slope:	0.1151	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20W–~~100~~ 540

Entellus™

File: T2N-R7W-S20W.dwg Date: 10/02/02



Normal Depth Results

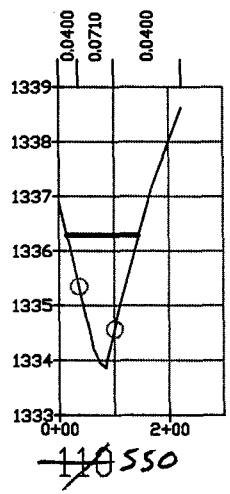
Cross-Section:	~~105~~ 545	
Elevation:	1333.69	ft MSL
Depth:	2.92	ft
Discharge:	470.00	cfs
Energy Gradient:	0.0075	ft/ft
Froude Number:	0.2574	
Flow Regime:	Subcritical	
Flow Area:	188.32	sq ft
Average Velocity:	2.50	ft/s
Maximum Velocity:	2.63	ft/s
Composite n:	0.059	
Hydraulic Radius:	1.16	ft
Wetted Perimeter:	162.35	ft
Wetted Top Width:	162.19	ft
Critical Slope:	0.1209	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20W–~~105~~ 545

Entellus™

File: T2N-R7W-S20W.dwg Date: 10/02/02



Normal Depth Results

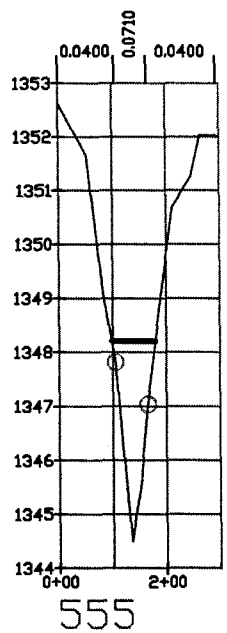
Cross-Section:	~~110~~ 550	
Elevation:	1336.29	ft MSL
Depth:	2.42	ft
Discharge:	470.00	cfs
Energy Gradient:	0.0075	ft/ft
Froude Number:	0.3118	
Flow Regime:	Subcritical	
Flow Area:	170.73	sq ft
Average Velocity:	2.77	ft/s
Maximum Velocity:	2.88	ft/s
Composite n:	0.0563	
Hydraulic Radius:	1.31	ft
Wetted Perimeter:	130.68	ft
Wetted Top Width:	130.58	ft
Critical Slope:	0.0779	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20W–~~110~~ 550

Entellus™

File: T2N-R7W-S20W.dwg Date: 10/02/02



Normal Depth Results

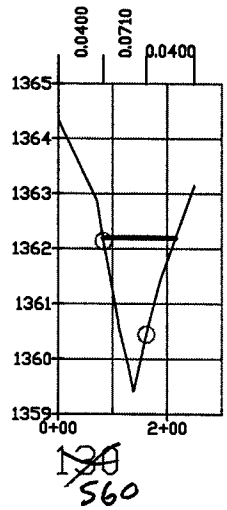
Cross-Section:	555	
Elevation:	1348.21	ft MSL
Depth:	3.72	ft
Discharge:	470.00	cfs
Energy Gradient:	0.0075	ft/ft
Froude Number:	0.2851	
Flow Regime:	Subcritical	
Flow Area:	150.65	sq ft
Average Velocity:	3.12	ft/s
Maximum Velocity:	3.19	ft/s
Composite n:	0.0635	
Hydraulic Radius:	1.83	ft
Wetted Perimeter:	82.23	ft
Wetted Top Width:	81.87	ft
Critical Slope:	0.0971	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20W–555

Entellus™

File: T2N-R7W-S20W.dwg, Date: 9/03/02



Normal Depth Results

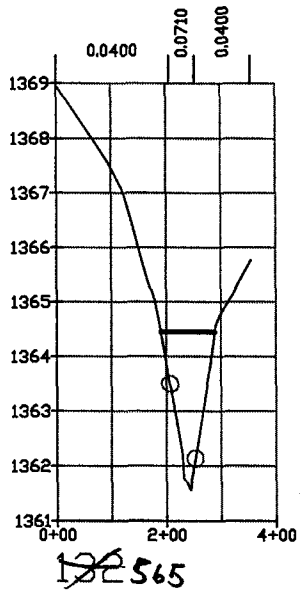
Cross-Section:	~~130~~ 560	
Elevation:	1362.20	ft MSL
Depth:	2.78	ft
Discharge:	470.00	cfs
Energy Gradient:	0.0075	ft/ft
Froude Number:	0.2801	
Flow Regime:	Subcritical	
Flow Area:	177.45	sq ft
Average Velocity:	2.64	ft/s
Maximum Velocity:	2.76	ft/s
Composite n:	0.0592	
Hydraulic Radius:	1.33	ft
Wetted Perimeter:	133.09	ft
Wetted Top Width:	132.97	ft
Critical Slope:	0.0964	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20W–~~130~~ 560

Entellus™

File: T2N-K7W-S20W.dwg Date: 10/02/02



Normal Depth Results

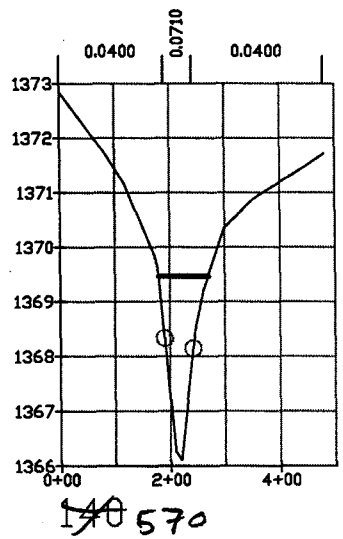
Cross-Section:	~~132~~ 565	
Elevation:	1364.46	ft MSL
Depth:	2.89	ft
Discharge:	470.00	cfs
Energy Gradient:	0.0075	ft/ft
Froude Number:	0.3243	
Flow Regime:	Subcritical	
Flow Area:	150.34	sq ft
Average Velocity:	3.15	ft/s
Maximum Velocity:	3.64	ft/s
Composite n:	0.0556	
Hydraulic Radius:	1.52	ft
Wetted Perimeter:	98.76	ft
Wetted Top Width:	98.57	ft
Critical Slope:	0.0738	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20W–~~132~~ 565

Entellus™

File: T2N-R7W-S20W.dwg Date: 10/02/02



Normal Depth Results

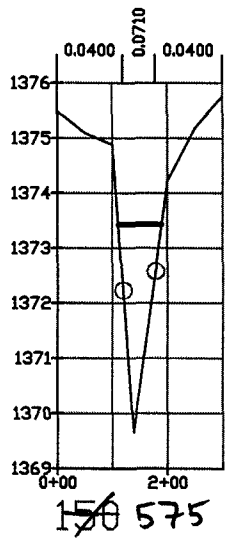
Cross-Section:	~~140~~ 570	
Elevation:	1369.47	ft MSL
Depth:	3.35	ft
Discharge:	470.00	cfs
Energy Gradient:	0.0075	ft/ft
Froude Number:	0.3042	
Flow Regime:	Subcritical	
Flow Area:	148.88	sq ft
Average Velocity:	3.14	ft/s
Maximum Velocity:	3.31	ft/s
Composite n:	0.0587	
Hydraulic Radius:	1.64	ft
Wetted Perimeter:	90.57	ft
Wetted Top Width:	90.27	ft
Critical Slope:	0.0863	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20W–~~140~~ 570

Entellus™

File: T2N-k7W-S20W.dwg Date: 10/02/02



Normal Depth Results

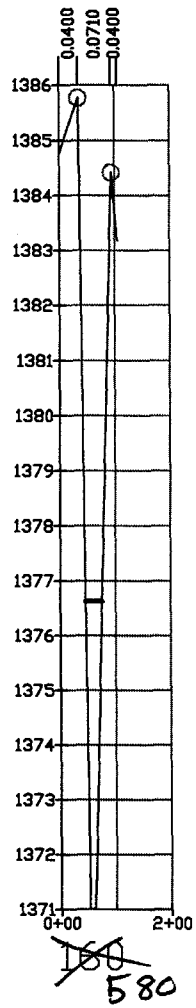
Cross-Section:	~~150~~ 575	
Elevation:	1373.43	ft MSL
Depth:	3.76	ft
Discharge:	470.00	cfs
Energy Gradient:	0.0075	ft/ft
Froude Number:	0.2852	
Flow Regime:	Subcritical	
Flow Area:	149.82	sq ft
Average Velocity:	3.15	ft/s
Maximum Velocity:	3.23	ft/s
Composite n:	0.0638	
Hydraulic Radius:	1.89	ft
Wetted Perimeter:	79.25	ft
Wetted Top Width:	78.86	ft
Critical Slope:	0.095	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20W–~~150~~ 575

Entellus™

File: T2N-R7W-S20W.dwg Date: 10/02/02



Normal Depth Results

Cross-Section:	~~160~~ 580	
Elevation:	1376.63	ft MSL
Depth:	5.62	ft
Discharge:	470.00	cfs
Energy Gradient:	0.0075	ft/ft
Froude Number:	0.3064	
Flow Regime:	Subcritical	
Flow Area:	114.10	sq ft
Average Velocity:	4.11	ft/s
Maximum Velocity:	4.11	ft/s
Composite n:	0.071	
Hydraulic Radius:	3.4	ft
Wetted Perimeter:	33.55	ft
Wetted Top Width:	30.45	ft
Critical Slope:	0.0802	ft/ft

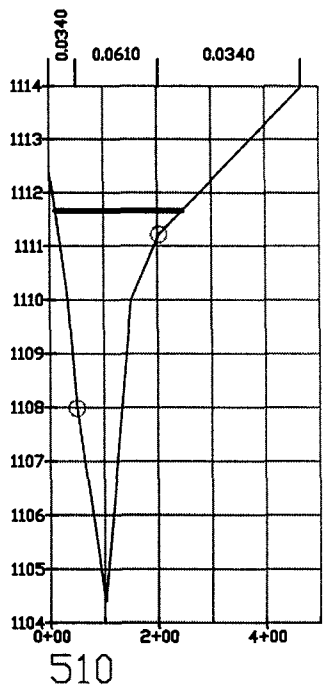
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S20W–~~160~~ 580

Entellus™

File: T2N-R7W-S20W.dwg Date: 10/10/02

T2N-R7W-S25E



Normal Depth Results

Cross-Section:	510	
Elevation:	1111.67	ft MSL
Depth:	7.27	ft
Discharge:	2900.00	cfs
Energy Gradient:	0.0064	ft/ft
Froude Number:	0.3003	
Flow Regime:	Subcritical	
Flow Area:	631.57	sq ft
Average Velocity:	4.58	ft/s
Maximum Velocity:	4.75	ft/s
Composite n:	0.0524	
Hydraulic Radius:	2.67	ft
Wetted Perimeter:	236.37	ft
Wetted Top Width:	235.73	ft
Critical Slope:	0.078	ft/ft

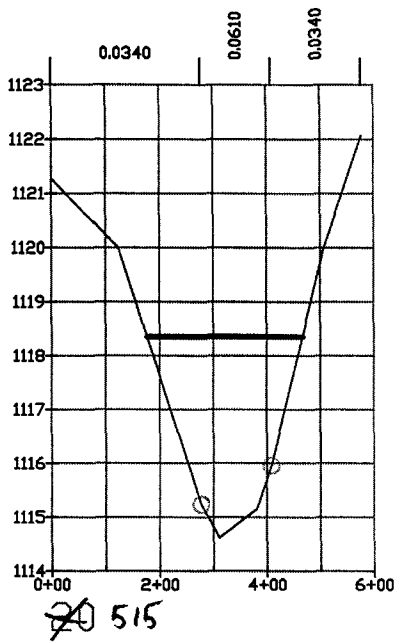
NOT USED IN DELINEATION

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S25E–510

Entellus™

File: T2N–R7W–S25E–New–Mapping.dwg Date: 10/09/02



Normal Depth Results

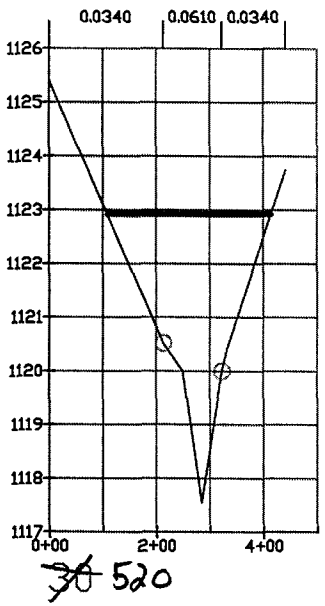
Cross-Section:	~~20~~ 515	
Elevation:	1118.35	ft MSL
Depth:	3.73	ft
Discharge:	2900.00	cfs
Energy Gradient:	0.0064	ft/ft
Froude Number:	0.4012	
Flow Regime:	Subcritical	
Flow Area:	659.39	sq ft
Average Velocity:	4.39	ft/s
Maximum Velocity:	4.71	ft/s
Composite n:	0.0471	
Hydraulic Radius:	2.28	ft
Wetted Perimeter:	289.81	ft
Wetted Top Width:	289.69	ft
Critical Slope:	0.0401	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S25E–~~20~~ 515

Entellus™

File: T2N–R7W–S25E–New–Mapping.dwg Date: 10/09/02



Normal Depth Results

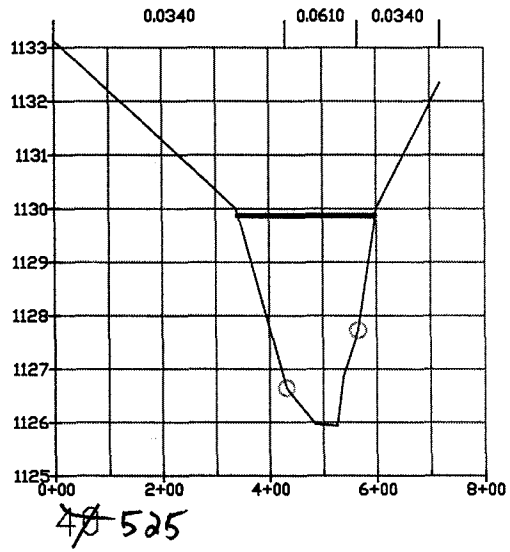
Cross-Section:	~~30~~ 520	
Elevation:	1122.92	ft MSL
Depth:	5.37	ft
Discharge:	2900.00	cfs
Energy Gradient:	0.0064	ft/ft
Froude Number:	0.3377	
Flow Regime:	Subcritical	
Flow Area:	653.13	sq ft
Average Velocity:	4.45	ft/s
Maximum Velocity:	4.63	ft/s
Composite n:	0.0445	
Hydraulic Radius:	2.14	ft
Wetted Perimeter:	305.85	ft
Wetted Top Width:	305.61	ft
Critical Slope:	0.0562	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S25E–~~30~~ 520

Entellus™

File: T2N–R7W–S25E–New–Mapping.dwg Date: 10/09/02



Normal Depth Results

Cross-Section:	~~40~~ 525	
Elevation:	1129.88	ft MSL
Depth:	3.94	ft
Discharge:	2900.00	cfs
Energy Gradient:	0.0064	ft/ft
Froude Number:	0.4005	
Flow Regime:	Subcritical	
Flow Area:	643.42	sq ft
Average Velocity:	4.50	ft/s
Maximum Velocity:	4.82	ft/s
Composite n:	0.0491	
Hydraulic Radius:	2.51	ft
Wetted Perimeter:	255.90	ft
Wetted Top Width:	255.71	ft
Critical Slope:	0.0402	ft/ft

File: T2N-R7W-S25E-New-Mapping.dwg Date: 10/09/02

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N-R7W-S25E-~~40~~ 525

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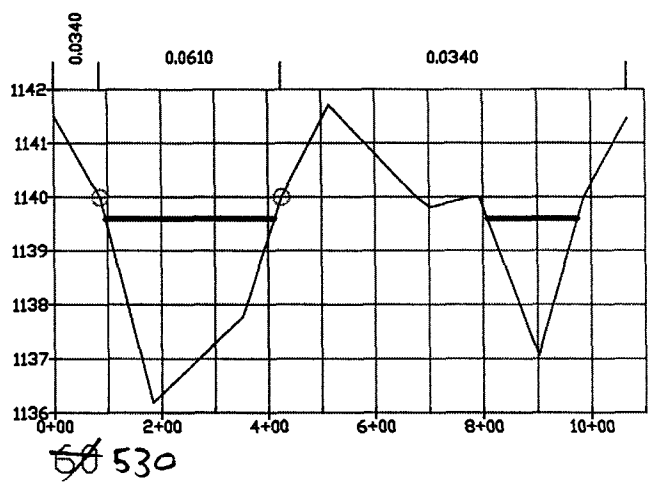


Normal Depth Results

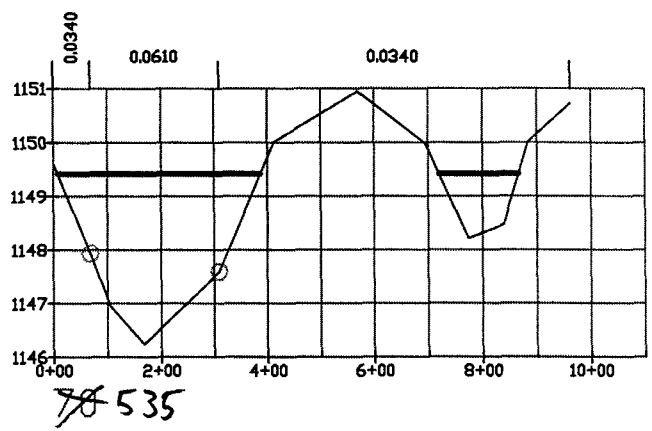
Cross-Section:	~~50~~ 530	
Elevation:	1139.60	ft MSL
Depth:	3.41	ft
Discharge:	2900.00	cfs
Energy Gradient:	0.0064	ft/ft
Froude Number:	0.322	
Flow Regime:	Subcritical	
Flow Area:	859.58	sq ft
Average Velocity:	3.39	ft/s
Maximum Velocity:	4.11	ft/s
Composite n:	0.0525	
Hydraulic Radius:	1.78	ft
Wetted Perimeter:	483.50	ft
Wetted Top Width:	483.32	ft
Critical Slope:	0.0632	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S25E–~~50~~ 530

Entellus™

File: T2N–R7W–S25E–New–Mapping.dwg Date: 10/03/02



Normal Depth Results

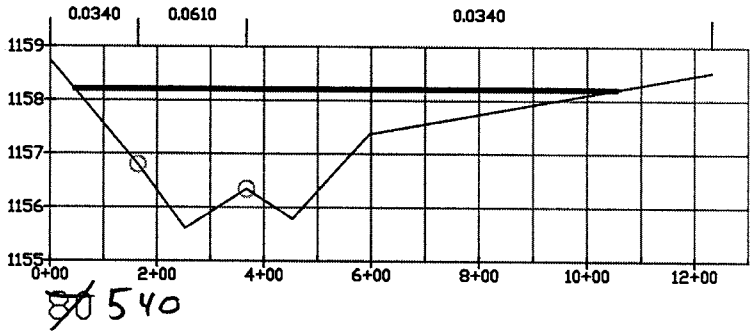
Cross-Section:	~~70~~ 535	
Elevation:	1149.42	ft MSL
Depth:	3.18	ft
Discharge:	2900.00	cfs
Energy Gradient:	0.0064	ft/ft
Froude Number:	0.3432	
Flow Regime:	Subcritical	
Flow Area:	835.29	sq ft
Average Velocity:	3.45	ft/s
Maximum Velocity:	3.60	ft/s
Composite n:	0.0473	
Hydraulic Radius:	1.59	ft
Wetted Perimeter:	525.48	ft
Wetted Top Width:	525.39	ft
Critical Slope:	0.0557	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S25E–~~70~~ 535

Entellus™

File: T2N–R7W–S25E–New–Mapping.dwg Date: 10/09/02



Normal Depth Results

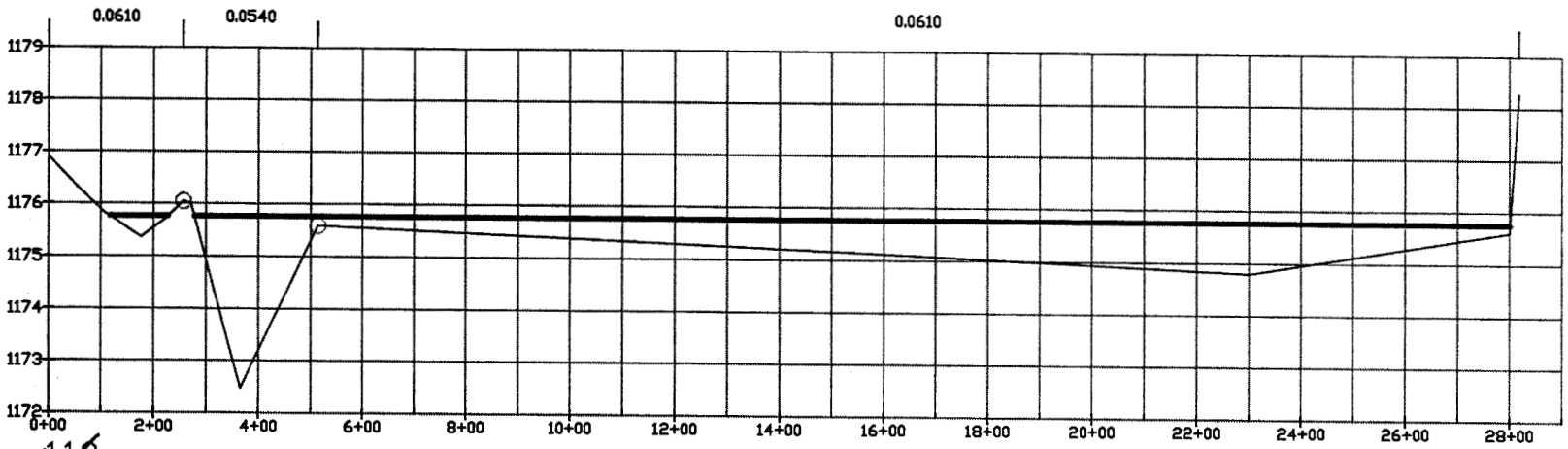
Cross-Section:	~~80~~ 540	
Elevation:	1158.21	ft MSL
Depth:	2.60	ft
Discharge:	2900.00	cfs
Energy Gradient:	0.0042	ft/ft
Froude Number:	0.2824	
Flow Regime:	Subcritical	
Flow Area:	1123.70	sq ft
Average Velocity:	2.59	ft/s
Maximum Velocity:	2.62	ft/s
Composite n:	0.0401	
Hydraulic Radius:	1.11	ft
Wetted Perimeter:	1009.13	ft
Wetted Top Width:	1009.10	ft
Critical Slope:	0.0524	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S25E–~~80~~ 540

Entellus™

File: T2N–R7W–S25E–New–Mapping.dwg Date: 10/09/02



~~110~~ 545

Normal Depth Results

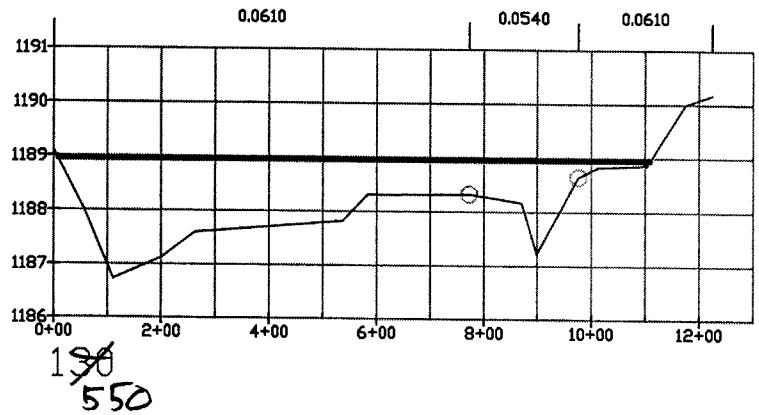
Cross-Section:	~~110~~ 545	
Elevation:	1175.76	ft MSL
Depth:	3.29	ft
Discharge:	2390.00	cfs
Energy Gradient:	0.0042	ft/ft
Froude Number:	0.1367	
Flow Regime:	Subcritical	
Flow Area:	1698.84	sq ft
Average Velocity:	1.41	ft/s
Maximum Velocity:	2.55	ft/s
Composite n:	0.0603	
Hydraulic Radius:	0.64	ft
Wetted Perimeter:	2634.13	ft
Wetted Top Width:	2634.02	ft
Critical Slope:	0.3121	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S25E–~~110~~ 545

Entellus™

File: T2N–R7W–S25E–New–Mapping.dwg Date: 10/09/02



Normal Depth Results

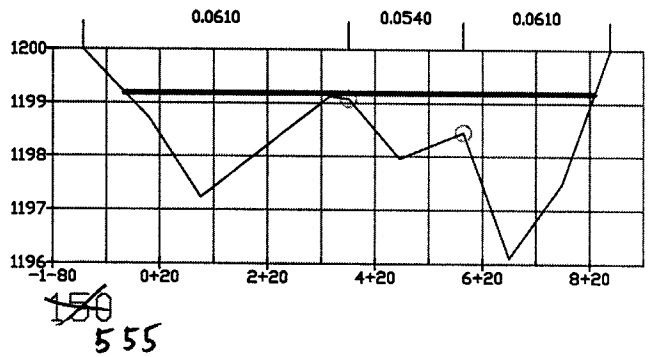
Cross-Section:	~~130~~ 550	
Elevation:	1188.95	ft MSL
Depth:	2.22	ft
Discharge:	2390.00	cfs
Energy Gradient:	0.0067	ft/ft
Froude Number:	0.2583	
Flow Regime:	Subcritical	
Flow Area:	1093.45	sq ft
Average Velocity:	2.17	ft/s
Maximum Velocity:	2.22	ft/s
Composite n:	0.0597	
Hydraulic Radius:	0.99	ft
Wetted Perimeter:	1101.33	ft
Wetted Top Width:	1101.27	ft
Critical Slope:	0.1161	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S25E–~~130~~ 550

Entellus™

File: T2N-R7W-S25E-New-Mapping.dwg Date: 10/09/02



Normal Depth Results

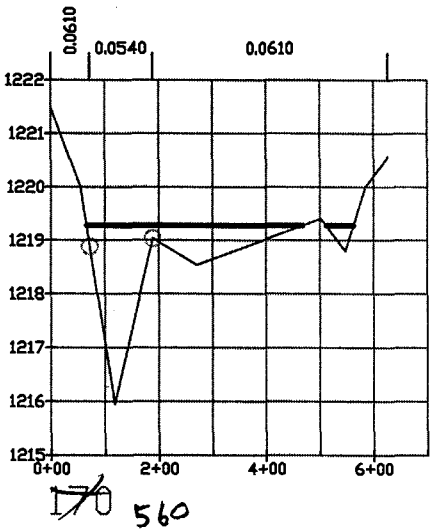
Cross-Section:	~~150~~ 555	
Elevation:	1199.19	ft MSL
Depth:	3.09	ft
Discharge:	2390.00	cfs
Energy Gradient:	0.0067	ft/ft
Froude Number:	0.2387	
Flow Regime:	Subcritical	
Flow Area:	1004.58	sq ft
Average Velocity:	2.40	ft/s
Maximum Velocity:	3.00	ft/s
Composite n:	0.0593	
Hydraulic Radius:	1.15	ft
Wetted Perimeter:	874.97	ft
Wetted Top Width:	874.87	ft
Critical Slope:	0.1309	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S25E–~~150~~ 555

Entellus™

File: T2N–R7W–S25E–New–Mapping.dwg Date: 10/09/02



Normal Depth Results

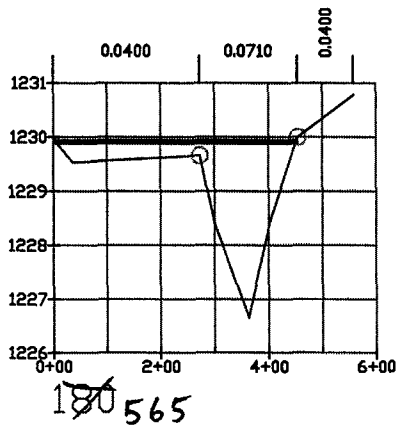
Cross-Section:	~~170~~ 560	
Elevation:	1219.28	ft MSL
Depth:	3.33	ft
Discharge:	1010.00	cfs
Energy Gradient:	0.0096	ft/ft
Froude Number:	0.2881	
Flow Regime:	Subcritical	
Flow Area:	338.59	sq ft
Average Velocity:	2.98	ft/s
Maximum Velocity:	4.02	ft/s
Composite n:	0.0592	
Hydraulic Radius:	0.75	ft
Wetted Perimeter:	453.05	ft
Wetted Top Width:	452.86	ft
Critical Slope:	0.2497	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S25E–~~170~~ 560

Entellus™

File: T2N–R7W–S25E–New–Mapping.dwg Date: 10/09/02



Normal Depth Results

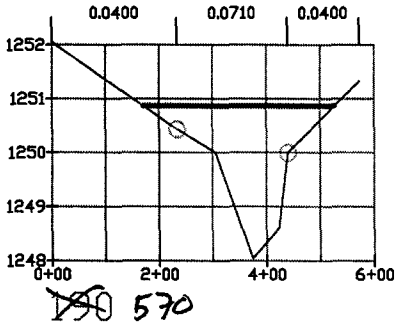
Cross-Section:	~~180~~ 565	
Elevation:	1229.91	ft MSL
Depth:	3.25	ft
Discharge:	1010.00	cfs
Energy Gradient:	0.0096	ft/ft
Froude Number:	0.2581	
Flow Regime:	Subcritical	
Flow Area:	382.57	sq ft
Average Velocity:	2.65	ft/s
Maximum Velocity:	2.92	ft/s
Composite n:	0.0534	
Hydraulic Radius:	0.86	ft
Wetted Perimeter:	446.87	ft
Wetted Top Width:	446.76	ft
Critical Slope:	0.1656	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S25E–1~~80~~ 565

Entellus™

File: T2N–R7W–S25E–New–Mapping.dwg Date: 10/09/02



Normal Depth Results

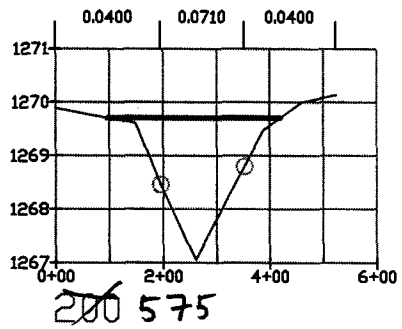
Cross-Section:	~~190~~ 570	
Elevation:	1250.87	ft MSL
Depth:	2.83	ft
Discharge:	1010.00	cfs
Energy Gradient:	0.0096	ft/ft
Froude Number:	0.2818	
Flow Regime:	Subcritical	
Flow Area:	375.84	sq ft
Average Velocity:	2.66	ft/s
Maximum Velocity:	2.79	ft/s
Composite n:	0.0589	
Hydraulic Radius:	1.06	ft
Wetted Perimeter:	355.16	ft
Wetted Top Width:	355.06	ft
Critical Slope:	0.1321	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S25E–~~190~~ 570

Entellus™

File: T2N–R7W–S25E–New–Mapping.dwg Date: 10/09/02



Normal Depth Results

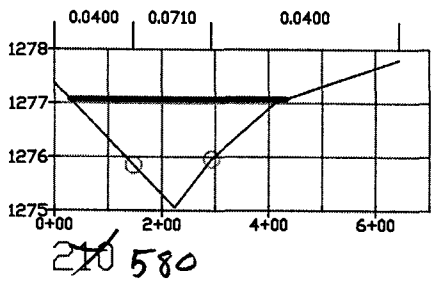
Cross-Section:	~~200~~ 575	
Elevation:	1269.71	ft MSL
Depth:	2.65	ft
Discharge:	1010.00	cfs
Energy Gradient:	0.0096	ft/ft
Froude Number:	0.3139	
Flow Regime:	Subcritical	
Flow Area:	348.45	sq ft
Average Velocity:	2.88	ft/s
Maximum Velocity:	3.10	ft/s
Composite n:	0.0561	
Hydraulic Radius:	1.08	ft
Wetted Perimeter:	323.65	ft
Wetted Top Width:	323.60	ft
Critical Slope:	0.1096	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S25E–~~200~~ 575

Entellus™

File: T2N–R7W–S25E–New–Mapping.dwg Date: 10/09/02



Normal Depth Results

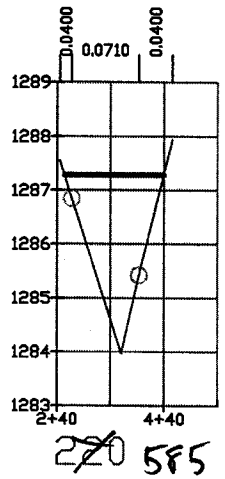
Cross-Section:	~~210~~ 580	
Elevation:	1277.08	ft MSL
Depth:	2.02	ft
Discharge:	1010.00	cfs
Energy Gradient:	0.0096	ft/ft
Froude Number:	0.3317	
Flow Regime:	Subcritical	
Flow Area:	377.70	sq ft
Average Velocity:	2.69	ft/s
Maximum Velocity:	2.81	ft/s
Composite n:	0.0522	
Hydraulic Radius:	0.93	ft
Wetted Perimeter:	404.11	ft
Wetted Top Width:	404.09	ft
Critical Slope:	0.0874	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S25E–~~210~~ 580

Entellus™

File: T2N–R7W–S25E–New–Mapping.dwg Date: 10/09/02



Normal Depth Results

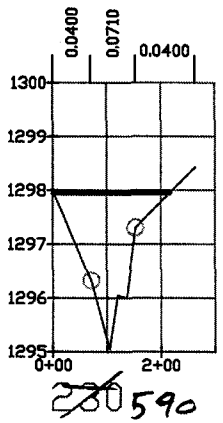
Cross-Section:	~~220~~ 585	
Elevation:	1287.28	ft MSL
Depth:	3.31	ft
Discharge:	1010.00	cfs
Energy Gradient:	0.0096	ft/ft
Froude Number:	0.3218	
Flow Regime:	Subcritical	
Flow Area:	304.11	sq ft
Average Velocity:	3.33	ft/s
Maximum Velocity:	3.48	ft/s
Composite n:	0.0618	
Hydraulic Radius:	1.64	ft
Wetted Perimeter:	185.75	ft
Wetted Top Width:	185.63	ft
Critical Slope:	0.095	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S25E–~~220~~ 585

Entellus™

File: T2N–R7W–S25E–New–Mapping.dwg Date: 10/09/02



Normal Depth Results

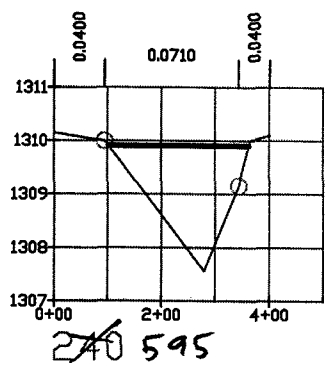
Cross-Section:	~~230~~ 590	
Elevation:	1297.96	ft MSL
Depth:	2.91	ft
Discharge:	760.00	cfs
Energy Gradient:	0.0096	ft/ft
Froude Number:	0.3226	
Flow Regime:	Subcritical	
Flow Area:	243.62	sq ft
Average Velocity:	3.13	ft/s
Maximum Velocity:	3.29	ft/s
Composite n:	0.0529	
Hydraulic Radius:	1.13	ft
Wetted Perimeter:	215.42	ft
Wetted Top Width:	215.28	ft
Critical Slope:	0.1002	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S25E–~~230~~ 590

Entellus™

File: T2N–R7W–S25E–New–Mapping.dwg Date: 10/09/02



Normal Depth Results

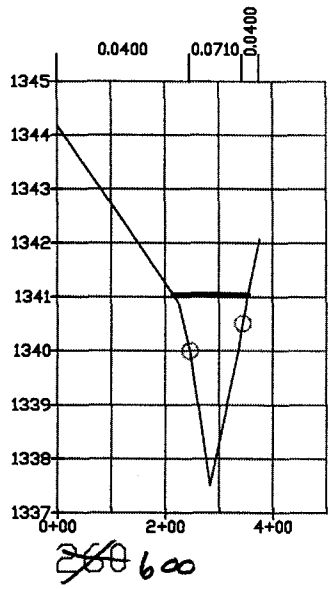
Cross-Section:	~~240~~ 595	
Elevation:	1309.91	ft MSL
Depth:	2.34	ft
Discharge:	760.00	cfs
Energy Gradient:	0.0096	ft/ft
Froude Number:	0.2785	
Flow Regime:	Subcritical	
Flow Area:	314.42	sq ft
Average Velocity:	2.40	ft/s
Maximum Velocity:	2.41	ft/s
Composite n:	0.0689	
Hydraulic Radius:	1.2	ft
Wetted Perimeter:	261.32	ft
Wetted Top Width:	261.27	ft
Critical Slope:	0.126	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S25E–~~240~~ 595

Entellus™

File: T2N–R7W–S25E–New–Mapping.dwg Date: 10/09/02



Normal Depth Results

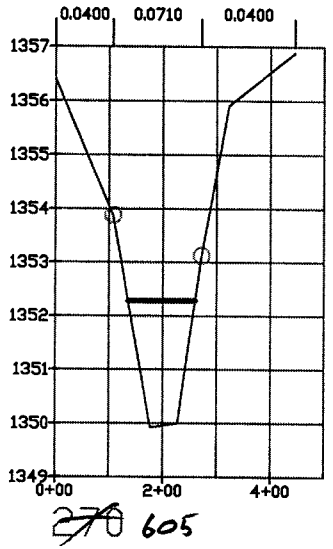
Cross-Section:	~~360~~ 600	
Elevation:	1341.04	ft MSL
Depth:	3.53	ft
Discharge:	760.00	cfs
Energy Gradient:	0.0096	ft/ft
Froude Number:	0.3134	
Flow Regime:	Subcritical	
Flow Area:	227.61	sq ft
Average Velocity:	3.33	ft/s
Maximum Velocity:	3.43	ft/s
Composite n:	0.0627	
Hydraulic Radius:	1.64	ft
Wetted Perimeter:	139.12	ft
Wetted Top Width:	138.93	ft
Critical Slope:	0.1043	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S25E–~~360~~ 600

Entellus™

File: T2N–R7W–S25E–New–Mapping.dwg Date: 10/09/02



Normal Depth Results

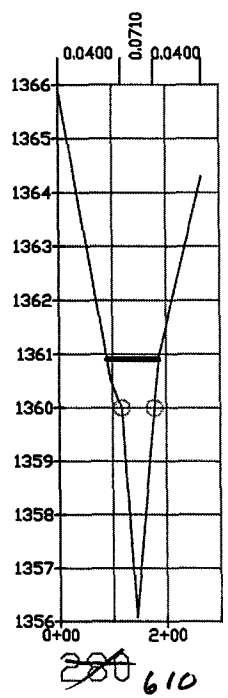
Cross-Section:	~~270~~ 605	
Elevation:	1352.28	ft MSL
Depth:	2.36	ft
Discharge:	760.00	cfs
Energy Gradient:	0.0096	ft/ft
Froude Number:	0.4305	
Flow Regime:	Subcritical	
Flow Area:	202.50	sq ft
Average Velocity:	3.76	ft/s
Maximum Velocity:	3.98	ft/s
Composite n:	0.0539	
Hydraulic Radius:	1.63	ft
Wetted Perimeter:	124.33	ft
Wetted Top Width:	124.19	ft
Critical Slope:	0.0519	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S25E–~~270~~ 605

Entellus™

File: T2N–R7W–S25E–New–Mapping.dwg Date: 10/09/02



Normal Depth Results

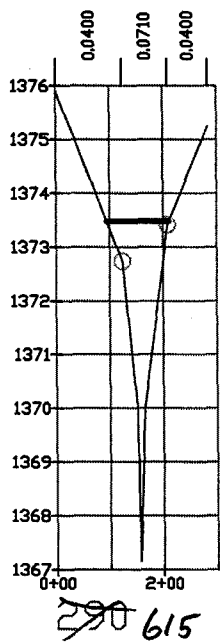
Cross-Section:	~~200~~ 610	
Elevation:	1360.90	ft MSL
Depth:	4.82	ft
Discharge:	760.00	cfs
Energy Gradient:	0.0096	ft/ft
Froude Number:	0.317	
Flow Regime:	Subcritical	
Flow Area:	192.44	sq ft
Average Velocity:	3.95	ft/s
Maximum Velocity:	4.12	ft/s
Composite n:	0.0605	
Hydraulic Radius:	1.98	ft
Wetted Perimeter:	97.25	ft
Wetted Top Width:	96.68	ft
Critical Slope:	0.103	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S25E–~~200~~ 610

Entellus™

File: T2N–R7W–S25E–New–Mapping.dwg Date: 10/09/02



Normal Depth Results

Cross-Section:	~~290~~ 615	
Elevation:	1373.48	ft MSL
Depth:	6.32	ft
Discharge:	760.00	cfs
Energy Gradient:	0.0096	ft/ft
Froude Number:	0.2496	
Flow Regime:	Subcritical	
Flow Area:	213.42	sq ft
Average Velocity:	3.54	ft/s
Maximum Velocity:	3.63	ft/s
Composite n:	0.0634	
Hydraulic Radius:	1.81	ft
Wetted Perimeter:	118.20	ft
Wetted Top Width:	116.74	ft
Critical Slope:	0.1678	ft/ft

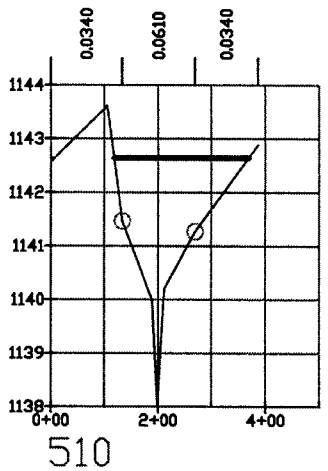
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S25E–~~290~~ 615

Entellus™

File: T2N–R7W–S25E–New–Mapping.dwg Date: 10/09/02

T2N-R7W-S26E



Normal Depth Results

Cross-Section:	510	
Elevation:	1142.65	ft MSL
Depth:	4.65	ft
Discharge:	1220.00	cfs
Energy Gradient:	0.0068	ft/ft
Froude Number:	0.2656	
Flow Regime:	Subcritical	
Flow Area:	375.65	sq ft
Average Velocity:	3.25	ft/s
Maximum Velocity:	3.39	ft/s
Composite n:	0.0492	
Hydraulic Radius:	1.45	ft
Wetted Perimeter:	258.35	ft
Wetted Top Width:	257.88	ft
Critical Slope:	0.099	ft/ft

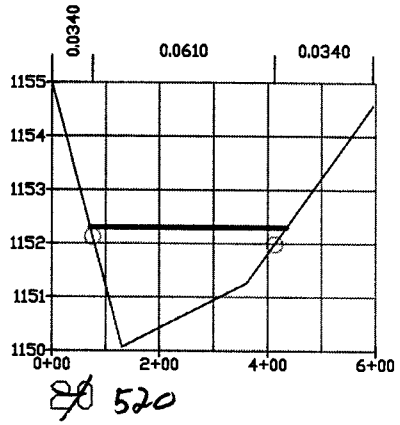
NOT USED IN DELINEATION

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S26E–510

Entellus™

File: T2N–R7W–S26E–New–Mapping.dwg Date: 10/09/02



Normal Depth Results

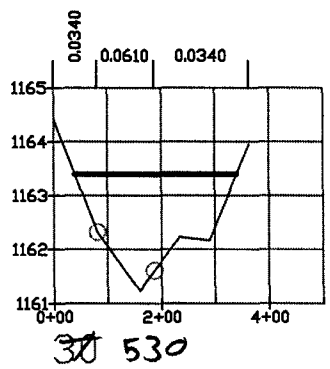
Cross-Section:	~~80~~ 520	
Elevation:	1152.31	ft MSL
Depth:	2.24	ft
Discharge:	1220.00	cfs
Energy Gradient:	0.0068	ft/ft
Froude Number:	0.2973	
Flow Regime:	Subcritical	
Flow Area:	483.62	sq ft
Average Velocity:	2.54	ft/s
Maximum Velocity:	2.55	ft/s
Composite n:	0.0592	
Hydraulic Radius:	1.33	ft
Wetted Perimeter:	363.95	ft
Wetted Top Width:	363.90	ft
Critical Slope:	0.0778	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S26E–~~80~~ 520

Entellus™

File: T2N–R7W–S26E–New–Mapping.dwg Date: 10/09/02



Normal Depth Results

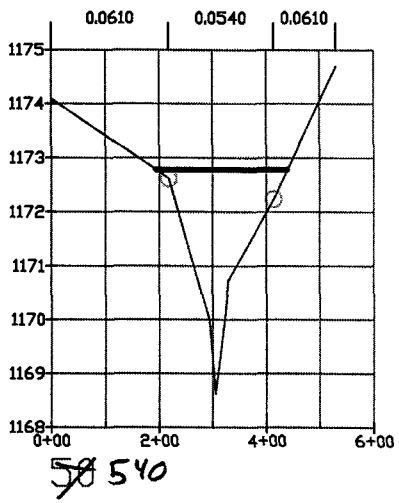
Cross-Section:	~~30~~ 530	
Elevation:	1163.40	ft MSL
Depth:	2.16	ft
Discharge:	1220.00	cfs
Energy Gradient:	0.0068	ft/ft
Froude Number:	0.3938	
Flow Regime:	Subcritical	
Flow Area:	371.64	sq ft
Average Velocity:	3.28	ft/s
Maximum Velocity:	3.83	ft/s
Composite n:	0.0445	
Hydraulic Radius:	1.23	ft
Wetted Perimeter:	301.11	ft
Wetted Top Width:	301.06	ft
Critical Slope:	0.0468	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S26E–~~36~~ 530

Entellus™

File: T2N–R7W–S26E–New–Mapping.dwg Date: 10/09/02



Normal Depth Results

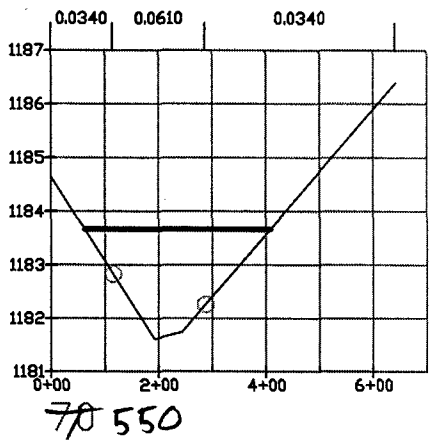
Cross-Section:	~~50~~ 540	
Elevation:	1172.78	ft MSL
Depth:	4.15	ft
Discharge:	1100.00	cfs
Energy Gradient:	0.0068	ft/ft
Froude Number:	0.2754	
Flow Regime:	Subcritical	
Flow Area:	345.57	sq ft
Average Velocity:	3.20	ft/s
Maximum Velocity:	3.26	ft/s
Composite n:	0.0554	
Hydraulic Radius:	1.41	ft
Wetted Perimeter:	245.56	ft
Wetted Top Width:	245.32	ft
Critical Slope:	0.1173	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S26E–~~56~~ 540

Entellus™

File: T2N–R7W–S26E–New–Mapping.dwg Date: 10/09/02



Normal Depth Results

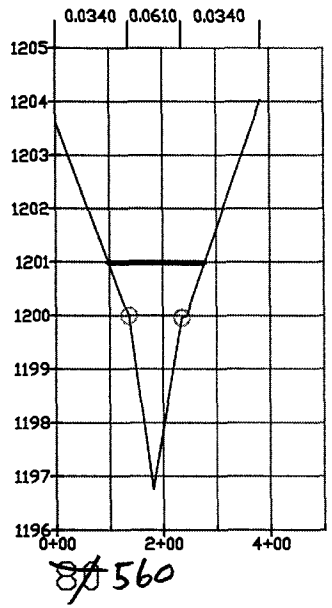
Cross-Section:	~~70~~ 550	
Elevation:	1183.67	ft MSL
Depth:	2.06	ft
Discharge:	1100.00	cfs
Energy Gradient:	0.0068	ft/ft
Froude Number:	0.3422	
Flow Regime:	Subcritical	
Flow Area:	394.91	sq ft
Average Velocity:	2.79	ft/s
Maximum Velocity:	2.86	ft/s
Composite n:	0.0483	
Hydraulic Radius:	1.14	ft
Wetted Perimeter:	346.48	ft
Wetted Top Width:	346.46	ft
Critical Slope:	0.0587	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S26E–~~70~~ 550

Entellus™

File: T2N–R7W–S26E–New–Mapping.dwg Date: 10/09/02



Normal Depth Results

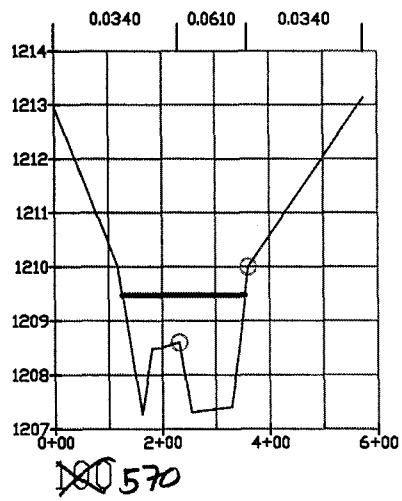
Cross-Section:	~~80~~ 560	
Elevation:	1200.99	ft MSL
Depth:	4.23	ft
Discharge:	1100.00	cfs
Energy Gradient:	0.0068	ft/ft
Froude Number:	0.3102	
Flow Regime:	Subcritical	
Flow Area:	303.97	sq ft
Average Velocity:	3.62	ft/s
Maximum Velocity:	3.82	ft/s
Composite n:	0.0498	
Hydraulic Radius:	1.69	ft
Wetted Perimeter:	179.86	ft
Wetted Top Width:	179.62	ft
Critical Slope:	0.0755	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S26E–~~80~~ 560

Entellus™

File: T2N–R7W–S26E–New–Mapping.dwg Date: 10/09/02



Normal Depth Results

Cross-Section:	~~100~~ 570	
Elevation:	1209.47	ft MSL
Depth:	2.20	ft
Discharge:	1100.00	cfs
Energy Gradient:	0.0068	ft/ft
Froude Number:	0.3877	
Flow Regime:	Subcritical	
Flow Area:	336.94	sq ft
Average Velocity:	3.28	ft/s
Maximum Velocity:	3.88	ft/s
Composite n:	0.0494	
Hydraulic Radius:	1.47	ft
Wetted Perimeter:	228.60	ft
Wetted Top Width:	228.37	ft
Critical Slope:	0.0465	ft/ft

File: T2N-R7W-S26E-New-Mapping.dwg Date: 10/09/02

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N-R7W-S26E-~~100~~ 570

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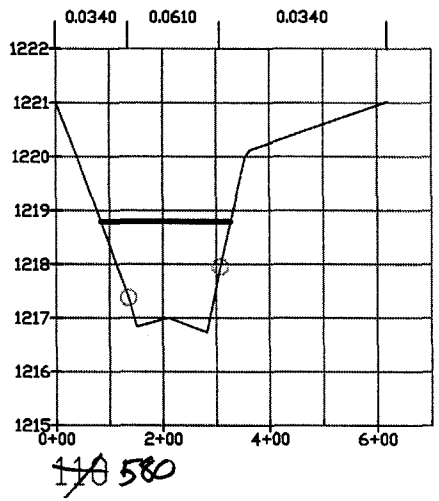


Normal Depth Results

Cross-Section:	~~110~~ 580	
Elevation:	1218.80	ft MSL
Depth:	2.06	ft
Discharge:	1200.00	cfs
Energy Gradient:	0.0087	ft/ft
Froude Number:	0.4114	
Flow Regime:	Subcritical	
Flow Area:	358.52	sq ft
Average Velocity:	3.36	ft/s
Maximum Velocity:	3.40	ft/s
Composite n:	0.0538	
Hydraulic Radius:	1.47	ft
Wetted Perimeter:	243.56	ft
Wetted Top Width:	243.48	ft
Critical Slope:	0.0515	ft/ft

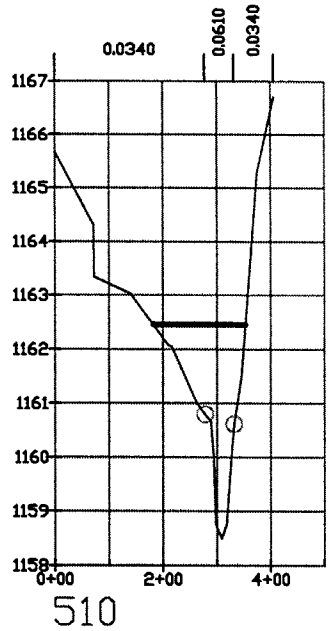
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S26E–~~110~~ 580

Entellus™

File: T2N–R7W–S26E–New–Mapping.dwg Date: 10/09/02

T2N-R7W-S26W



Normal Depth Results

Cross-Section:	510	
Elevation:	1162.46	ft MSL
Depth:	3.96	ft
Discharge:	980.00	cfs
Energy Gradient:	0.0072	ft/ft
Froude Number:	0.3418	
Flow Regime:	Subcritical	
Flow Area:	254.09	sq ft
Average Velocity:	3.86	ft/s
Maximum Velocity:	4.20	ft/s
Composite n:	0.0434	
Hydraulic Radius:	1.48	ft
Wetted Perimeter:	171.76	ft
Wetted Top Width:	171.31	ft
Critical Slope:	0.0642	ft/ft

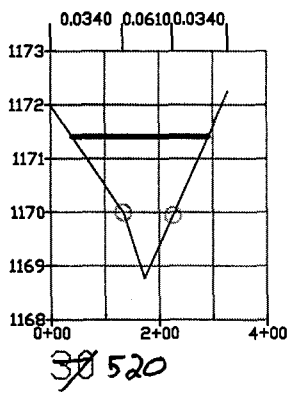
NOT USED IN DELINEATION

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S26W–510

Entellus™

File: T2N–R7W–S26W–New–Mapping.dwg Date: 10/10/02



Normal Depth Results

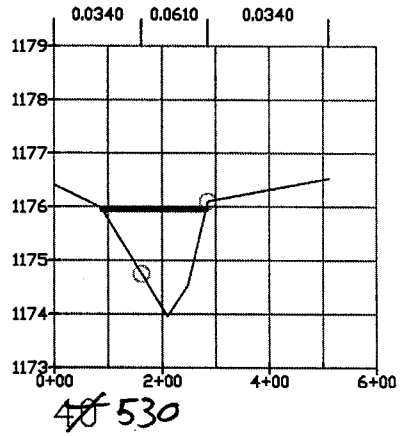
Cross-Section:	~~30~~ 520	
Elevation:	1171.42	ft MSL
Depth:	2.65	ft
Discharge:	980.00	cfs
Energy Gradient:	0.0072	ft/ft
Froude Number:	0.3482	
Flow Regime:	Subcritical	
Flow Area:	304.92	sq ft
Average Velocity:	3.21	ft/s
Maximum Velocity:	3.34	ft/s
Composite n:	0.0447	
Hydraulic Radius:	1.21	ft
Wetted Perimeter:	252.82	ft
Wetted Top Width:	252.76	ft
Critical Slope:	0.0599	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S26W–~~30~~ 520

Entellus™

File: T2N–R7W–S26W–New–Mapping.dwg Date: 10/10/02



Normal Depth Results

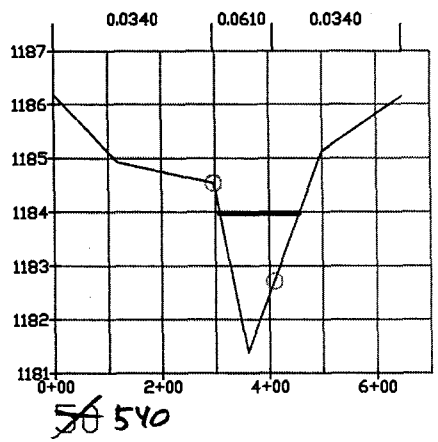
Cross-Section:	~~40~~ 530	
Elevation:	1175.95	ft MSL
Depth:	1.99	ft
Discharge:	540.00	cfs
Energy Gradient:	0.0072	ft/ft
Froude Number:	0.3234	
Flow Regime:	Subcritical	
Flow Area:	208.85	sq ft
Average Velocity:	2.58	ft/s
Maximum Velocity:	2.64	ft/s
Composite n:	0.0516	
Hydraulic Radius:	1.08	ft
Wetted Perimeter:	192.79	ft
Wetted Top Width:	192.74	ft
Critical Slope:	0.069	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S26W–~~40~~ 530

Entellus™

File: T2N–R7W–S26W–New–Mapping.dwg Date: 10/10/02



Normal Depth Results

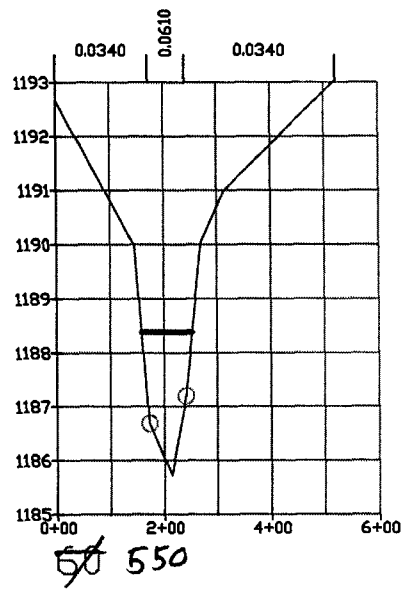
Cross-Section:	~~50~~ 540	
Elevation:	1183.98	ft MSL
Depth:	2.60	ft
Discharge:	540.00	cfs
Energy Gradient:	0.0072	ft/ft
Froude Number:	0.3074	
Flow Regime:	Subcritical	
Flow Area:	192.08	sq ft
Average Velocity:	2.83	ft/s
Maximum Velocity:	2.84	ft/s
Composite n:	0.0532	
Hydraulic Radius:	1.3	ft
Wetted Perimeter:	148.05	ft
Wetted Top Width:	147.95	ft
Critical Slope:	0.0753	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S26W–~~50~~ 540

Entellus™

File: T2N–R7W–S26W–New–Mapping.dwg Date: 10/10/02



Normal Depth Results

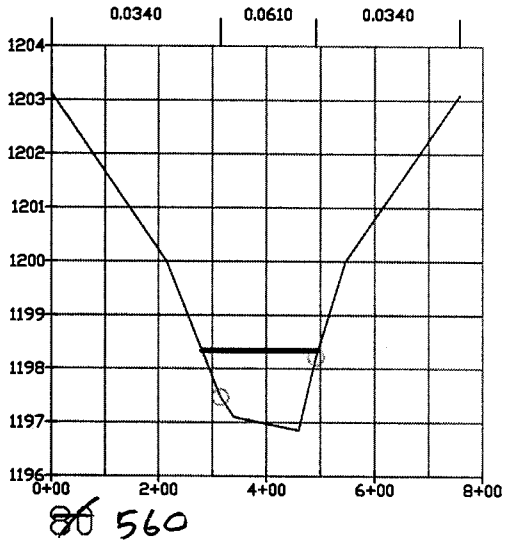
Cross-Section:	~~50~~ 550	
Elevation:	1188.39	ft MSL
Depth:	2.66	ft
Discharge:	540.00	cfs
Energy Gradient:	0.0072	ft/ft
Froude Number:	0.3593	
Flow Regime:	Subcritical	
Flow Area:	162.58	sq ft
Average Velocity:	3.33	ft/s
Maximum Velocity:	3.37	ft/s
Composite n:	0.0544	
Hydraulic Radius:	1.71	ft
Wetted Perimeter:	95.14	ft
Wetted Top Width:	94.93	ft
Critical Slope:	0.0557	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S26W–~~50~~ 550

Entellus™

File: T2N–R7W–S26W–New–Mapping.dwg Date: 10/10/02



Normal Depth Results

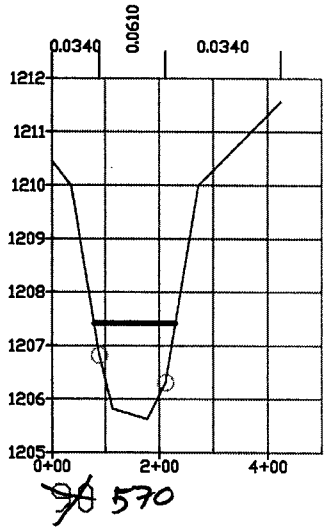
Cross-Section:	~~80~~ 560	
Elevation:	1198.34	ft MSL
Depth:	1.49	ft
Discharge:	540.00	cfs
Energy Gradient:	0.0072	ft/ft
Froude Number:	0.3374	
Flow Regime:	Subcritical	
Flow Area:	231.05	sq ft
Average Velocity:	2.35	ft/s
Maximum Velocity:	2.37	ft/s
Composite n:	0.0567	
Hydraulic Radius:	1.07	ft
Wetted Perimeter:	215.10	ft
Wetted Top Width:	215.06	ft
Critical Slope:	0.0631	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S26W–~~80~~ 560

Entellus™

File: T2N–R7W–S26W–New–Mapping.dwg Date: 10/10/02



Normal Depth Results

Cross-Section:	~~90~~ 570	
Elevation:	1207.42	ft MSL
Depth:	1.79	ft
Discharge:	540.00	cfs
Energy Gradient:	0.0072	ft/ft
Froude Number:	0.3573	
Flow Regime:	Subcritical	
Flow Area:	199.06	sq ft
Average Velocity:	2.70	ft/s
Maximum Velocity:	2.73	ft/s
Composite n:	0.0564	
Hydraulic Radius:	1.31	ft
Wetted Perimeter:	151.48	ft
Wetted Top Width:	151.40	ft
Critical Slope:	0.0575	ft/ft

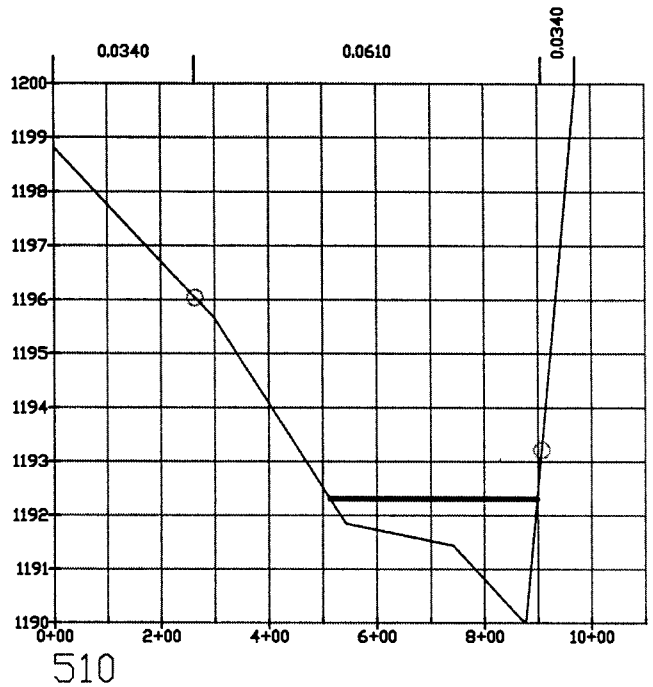
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S26W–~~90~~ 570

Entellus™

File: T2N–R7W–S26W–New–Mapping.dwg Date: 10/10/02

T2N-R7W-S27W



Normal Depth Results

Cross-Section:	510	
Elevation:	1192.31	ft MSL
Depth:	2.31	ft
Discharge:	860.00	cfs
Energy Gradient:	0.0087	ft/ft
Froude Number:	0.2627	
Flow Regime:	Subcritical	
Flow Area:	379.74	sq ft
Average Velocity:	2.26	ft/s
Maximum Velocity:	2.26	ft/s
Composite n:	0.061	
Hydraulic Radius:	0.99	ft
Wetted Perimeter:	385.18	ft
Wetted Top Width:	385.04	ft
Critical Slope:	0.1269	ft/ft

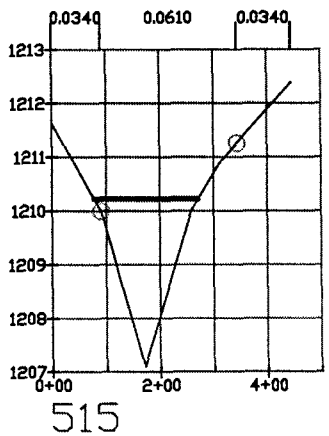
NOT USED IN DELINEATION

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S27W–510

Entellus™

File: T2N-K7W-S27W-New-Mapping.dwg; Date: 9/03/02



Normal Depth Results

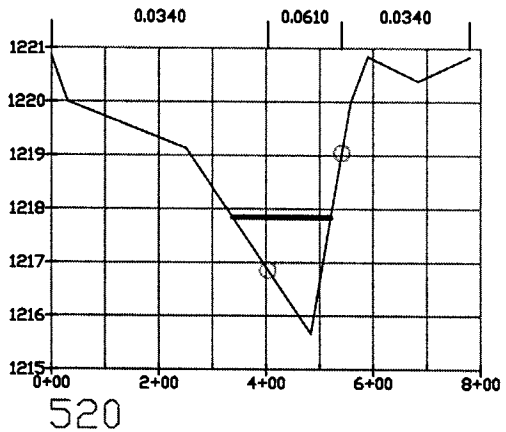
Cross-Section:	515	
Elevation:	1210.23	ft MSL
Depth:	3.13	ft
Discharge:	860.00	cfs
Energy Gradient:	0.0087	ft/ft
Froude Number:	0.3029	
Flow Regime:	Subcritical	
Flow Area:	283.12	sq ft
Average Velocity:	3.05	ft/s
Maximum Velocity:	3.06	ft/s
Composite n:	0.0594	
Hydraulic Radius:	1.46	ft
Wetted Perimeter:	193.30	ft
Wetted Top Width:	193.20	ft
Critical Slope:	0.0962	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S27W–515

Entellus™

File: T2N-R7W-S27W-New-Mapping.dwg Date: 9/03/02



Normal Depth Results

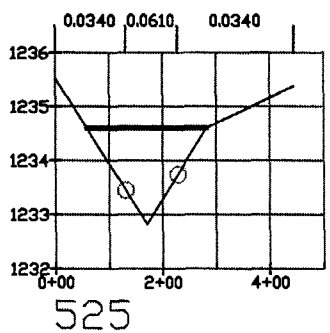
Cross-Section:	520	
Elevation:	1217.84	ft MSL
Depth:	2.17	ft
Discharge:	560.00	cfs
Energy Gradient:	0.0087	ft/ft
Froude Number:	0.3366	
Flow Regime:	Subcritical	
Flow Area:	198.95	sq ft
Average Velocity:	2.82	ft/s
Maximum Velocity:	2.88	ft/s
Composite n:	0.052	
Hydraulic Radius:	1.08	ft
Wetted Perimeter:	183.38	ft
Wetted Top Width:	183.30	ft
Critical Slope:	0.0766	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S27W–520

Entellus™

File: T2N-R7W-S27W-New-Mapping.dwg Date: 9/03/02



Normal Depth Results

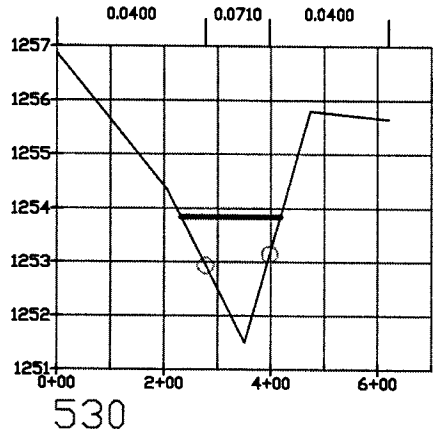
Cross-Section:	525	
Elevation:	1234.60	ft MSL
Depth:	1.78	ft
Discharge:	560.00	cfs
Energy Gradient:	0.0087	ft/ft
Froude Number:	0.3688	
Flow Regime:	Subcritical	
Flow Area:	200.38	sq ft
Average Velocity:	2.77	ft/s
Maximum Velocity:	2.83	ft/s
Composite n:	0.0467	
Hydraulic Radius:	0.89	ft
Wetted Perimeter:	224.45	ft
Wetted Top Width:	224.42	ft
Critical Slope:	0.0656	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S27W–525

Entellus™

File: T2N-K7W-S27W-New-Mapping.dwg; Date: 9/03/02



Normal Depth Results

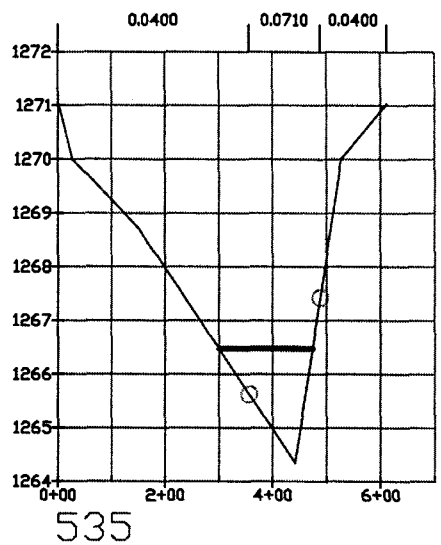
Cross-Section:	530	
Elevation:	1253.85	ft MSL
Depth:	2.35	ft
Discharge:	560.00	cfs
Energy Gradient:	0.0087	ft/ft
Froude Number:	0.2951	
Flow Regime:	Subcritical	
Flow Area:	218.42	sq ft
Average Velocity:	2.57	ft/s
Maximum Velocity:	2.66	ft/s
Composite n:	0.0609	
Hydraulic Radius:	1.17	ft
Wetted Perimeter:	186.52	ft
Wetted Top Width:	186.45	ft
Critical Slope:	0.1022	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S27W–530

Entellus™

File: T2N-R7W-S27W-New-Mapping.dwg Date: 9/03/02



Normal Depth Results

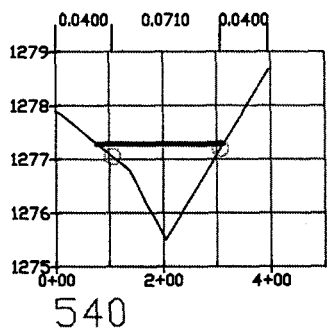
Cross-Section:	535	
Elevation:	1266.48	ft MSL
Depth:	2.13	ft
Discharge:	440.00	cfs
Energy Gradient:	0.0087	ft/ft
Froude Number:	0.286	
Flow Regime:	Subcritical	
Flow Area:	185.85	sq ft
Average Velocity:	2.36	ft/s
Maximum Velocity:	2.42	ft/s
Composite n:	0.0618	
Hydraulic Radius:	1.07	ft
Wetted Perimeter:	174.27	ft
Wetted Top Width:	174.19	ft
Critical Slope:	0.1082	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S27W–535

Entellus™

File: T2N-R7W-S27W-New-Mapping.dwg, Date: 9/03/02



Normal Depth Results

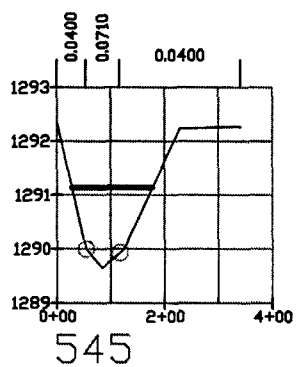
Cross-Section:	540	
Elevation:	1277.29	ft MSL
Depth:	1.79	ft
Discharge:	340.00	cfs
Energy Gradient:	0.0087	ft/ft
Froude Number:	0.2395	
Flow Regime:	Subcritical	
Flow Area:	187.20	sq ft
Average Velocity:	1.82	ft/s
Maximum Velocity:	1.84	ft/s
Composite n:	0.0669	
Hydraulic Radius:	0.8	ft
Wetted Perimeter:	235.14	ft
Wetted Top Width:	235.11	ft
Critical Slope:	0.1572	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S27W–540

Entellus™

File: T2N-R7W-S27W-New-Mapping.dwg Date: 9/03/02



Normal Depth Results

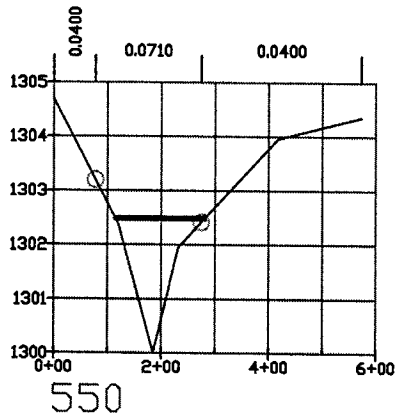
Cross-Section:	545	
Elevation:	1291.14	ft MSL
Depth:	1.49	ft
Discharge:	340.00	cfs
Energy Gradient:	0.0087	ft/ft
Froude Number:	0.3538	
Flow Regime:	Subcritical	
Flow Area:	138.76	sq ft
Average Velocity:	2.44	ft/s
Maximum Velocity:	2.62	ft/s
Composite n:	0.054	
Hydraulic Radius:	0.92	ft
Wetted Perimeter:	150.12	ft
Wetted Top Width:	150.07	ft
Critical Slope:	0.0701	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S27W–545

Entellus™

File: T2N-R7W-S27W-New-Mapping.dwg Date: 9/03/02



Normal Depth Results

Cross-Section:	550	
Elevation:	1302.49	ft MSL
Depth:	2.49	ft
Discharge:	340.00	cfs
Energy Gradient:	0.0087	ft/ft
Froude Number:	0.2272	
Flow Regime:	Subcritical	
Flow Area:	167.30	sq ft
Average Velocity:	2.02	ft/s
Maximum Velocity:	2.02	ft/s
Composite n:	0.07	
Hydraulic Radius:	1.01	ft
Wetted Perimeter:	165.70	ft
Wetted Top Width:	165.61	ft
Critical Slope:	0.1742	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R7W–S27W–550

Entellus™

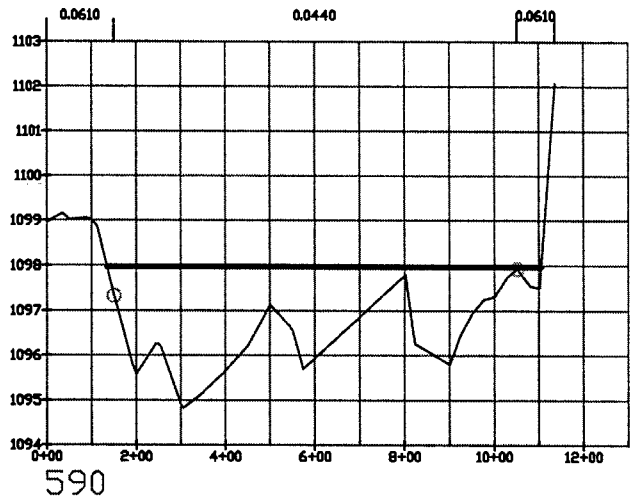
File: T2N-R7W-S27W-Now-Mapping.dwg, Date: 9/03/02

E.6 Area D – Cross Sections

Area D Washes

T1N-R6W-S18
T1N-R6W-S20E
T1S-R6W-S27
T2N-R6W-S02
T2N-R6W-S05E
T2N-R6W-S05N
T2N-R6W-S05S
T2N-R6W-S05W
T2N-R6W-S22
T2N-R6W-S27
T2N-R6W-S28
T3N-R6W-S21
T3N-R6W-S21E
T3N-R6W-S27S
T3N-R6W-S27W
T3N-R6W-S29
T3N-R6W-S33

T1N-R6W-S18



Normal Depth Results

Cross-Section:	590	
Elevation:	1097.97	ft MSL
Depth:	3.14	ft
Discharge:	4750.00	cfs
Energy Gradient:	0.0052	ft/ft
Froude Number:	0.3278	
Flow Regime:	Subcritical	
Flow Area:	1441.16	sq ft
Average Velocity:	3.27	ft/s
Maximum Velocity:	3.31	ft/s
Composite n:	0.0453	
Hydraulic Radius:	1.48	ft
Wetted Perimeter:	970.50	ft
Wetted Top Width:	970.28	ft
Critical Slope:	0.0551	ft/ft

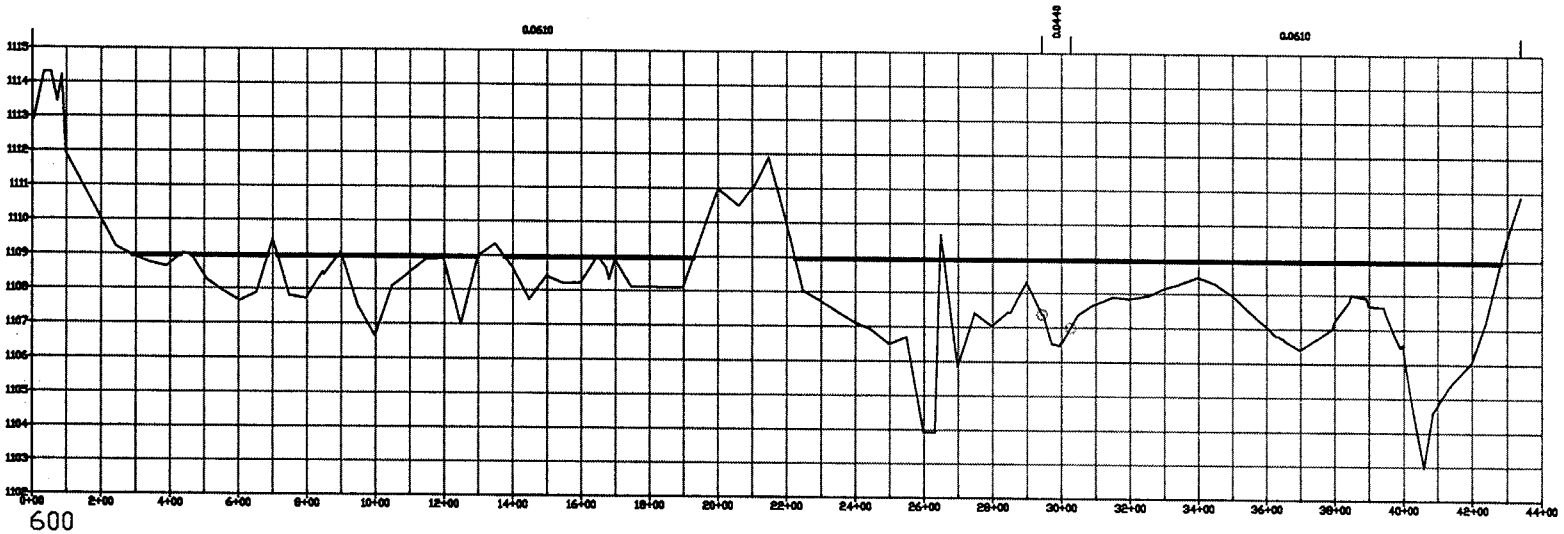
NOT USED IN DELINEATION

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S18–590

Entellus™

File: T1N-R6W-S18.dwg Date: 9/03/02



Normal Depth Results

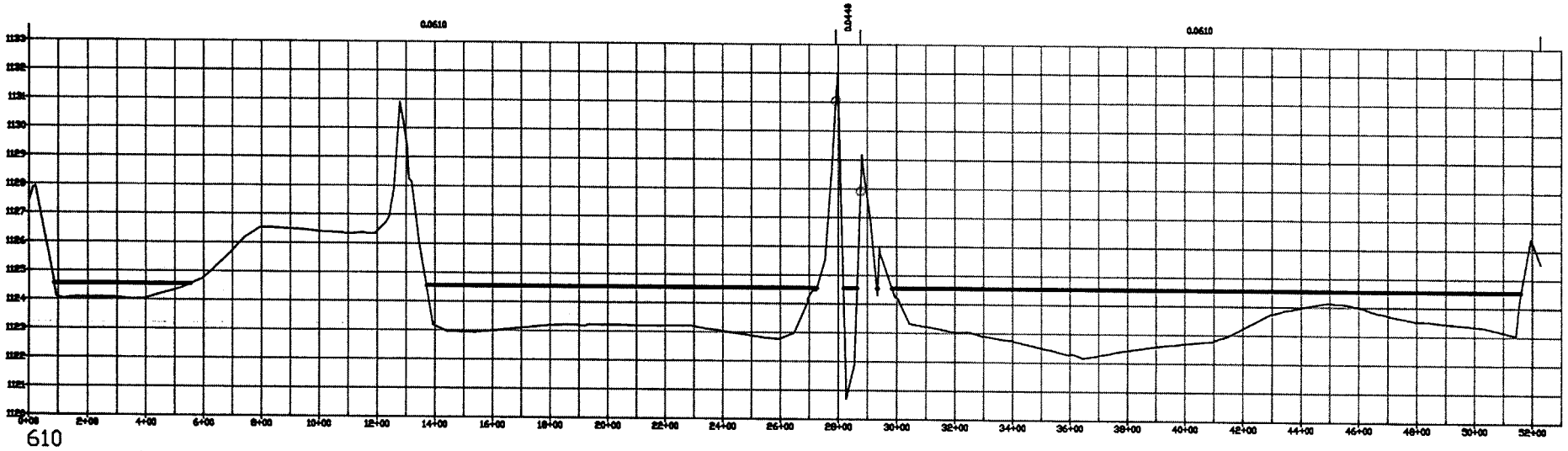
Cross-Section:	600	
Elevation:	1108.96	ft MSL
Depth:	5.99	ft
Discharge:	11390.00	cfs
Energy Gradient:	0.0052	ft/ft
Froude Number:	0.1672	
Flow Regime:	Subcritical	
Flow Area:	4906.55	sq ft
Average Velocity:	2.32	ft/s
Maximum Velocity:	4.13	ft/s
Composite n:	0.0606	
Hydraulic Radius:	1.39	ft
Wetted Perimeter:	3523.84	ft
Wetted Top Width:	3522.19	ft
Critical Slope:	0.2052	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S18–600

Entellus™

File: T1N-R6W-S18.dwg Date: 10/30/02



Normal Depth Results

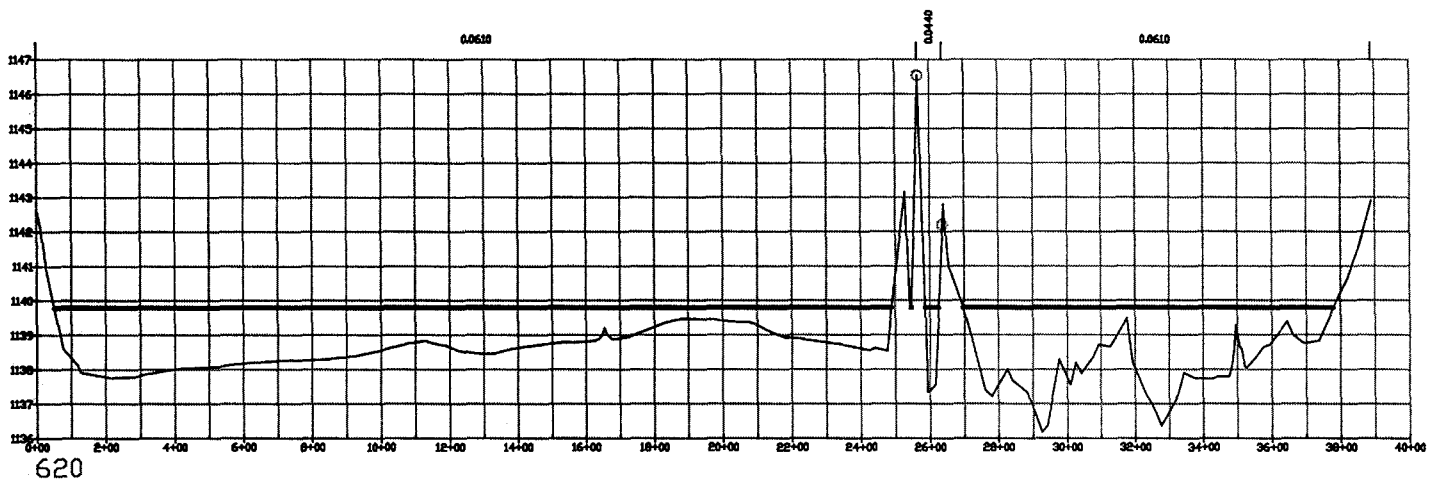
Cross-Section:	610	
Elevation:	1124.56	ft MSL
Depth:	3.85	ft
Discharge:	11180.00	cfs
Energy Gradient:	0.0052	ft/ft
Froude Number:	0.1915	
Flow Regime:	Subcritical	
Flow Area:	5248.47	sq ft
Average Velocity:	2.14	ft/s
Maximum Velocity:	4.51	ft/s
Composite n:	0.0608	
Hydraulic Radius:	1.29	ft
Wetted Perimeter:	4053.51	ft
Wetted Top Width:	4052.21	ft
Critical Slope:	0.146	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S18–610

Entellus™

File: T1N-R6W-S18.dwg Date: 10/30/02



Normal Depth Results

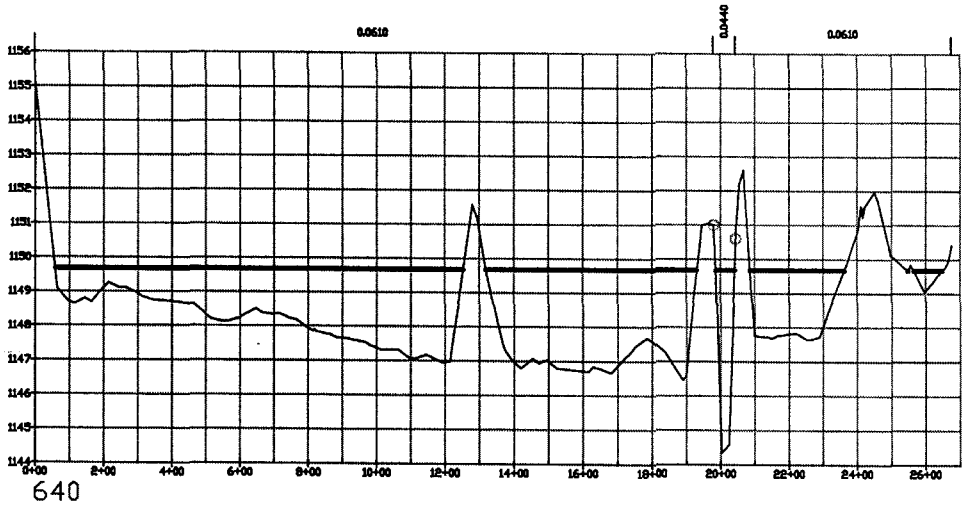
Cross-Section:	620	
Elevation:	1139.80	ft MSL
Depth:	3.62	ft
Discharge:	10820.00	cfs
Energy Gradient:	0.0052	ft/ft
Froude Number:	0.2064	
Flow Regime:	Subcritical	
Flow Area:	4854.34	sq ft
Average Velocity:	2.22	ft/s
Maximum Velocity:	3.62	ft/s
Composite n:	0.0608	
Hydraulic Radius:	1.36	ft
Wetted Perimeter:	3563.37	ft
Wetted Top Width:	3562.25	ft
Critical Slope:	0.1285	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S18–620

Entellus™

File: T1N-R6W-S18.dwg Date: 10/30/02



Normal Depth Results

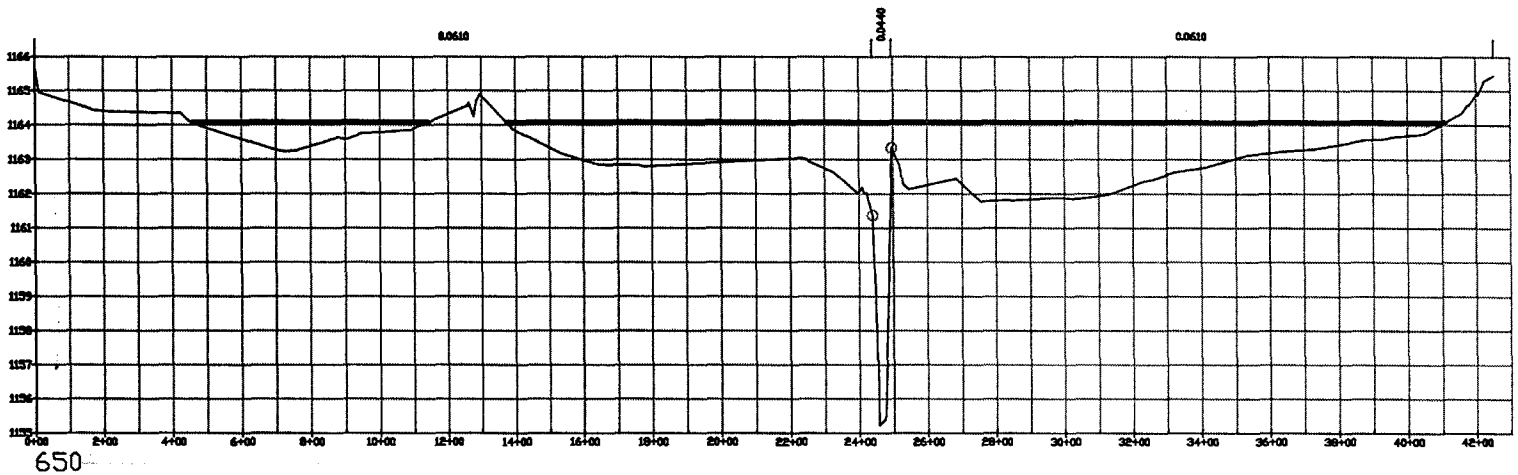
Cross-Section:	640	
Elevation:	1149.68	ft MSL
Depth:	5.32	ft
Discharge:	10820.00	cfs
Energy Gradient:	0.0052	ft/ft
Froude Number:	0.2072	
Flow Regime:	Subcritical	
Flow Area:	3991.48	sq ft
Average Velocity:	2.73	ft/s
Maximum Velocity:	5.65	ft/s
Composite n:	0.0606	
Hydraulic Radius:	1.79	ft
Wetted Perimeter:	2227.37	ft
Wetted Top Width:	2225.24	ft
Critical Slope:	0.13	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S18–640

Entellus™

File: T1N-R6W-S18.dwg Date: 10/30/02



Normal Depth Results

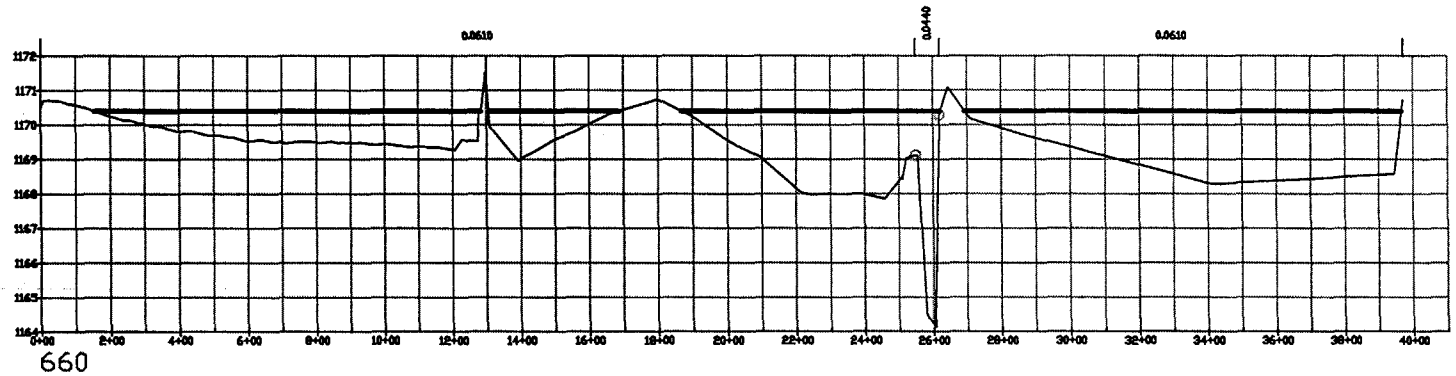
Cross-Section:	650	
Elevation:	1164.09	ft MSL
Depth:	8.86	ft
Discharge:	10320.00	cfs
Energy Gradient:	0.0052	ft/ft
Froude Number:	0.1478	
Flow Regime:	Subcritical	
Flow Area:	4134.13	sq ft
Average Velocity:	2.49	ft/s
Maximum Velocity:	8.10	ft/s
Composite n:	0.0607	
Hydraulic Radius:	1.21	ft
Wetted Perimeter:	3425.88	ft
Wetted Top Width:	3423.25	ft
Critical Slope:	0.3684	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S18–650

Entellus™

File: T1N-R6W-S18-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

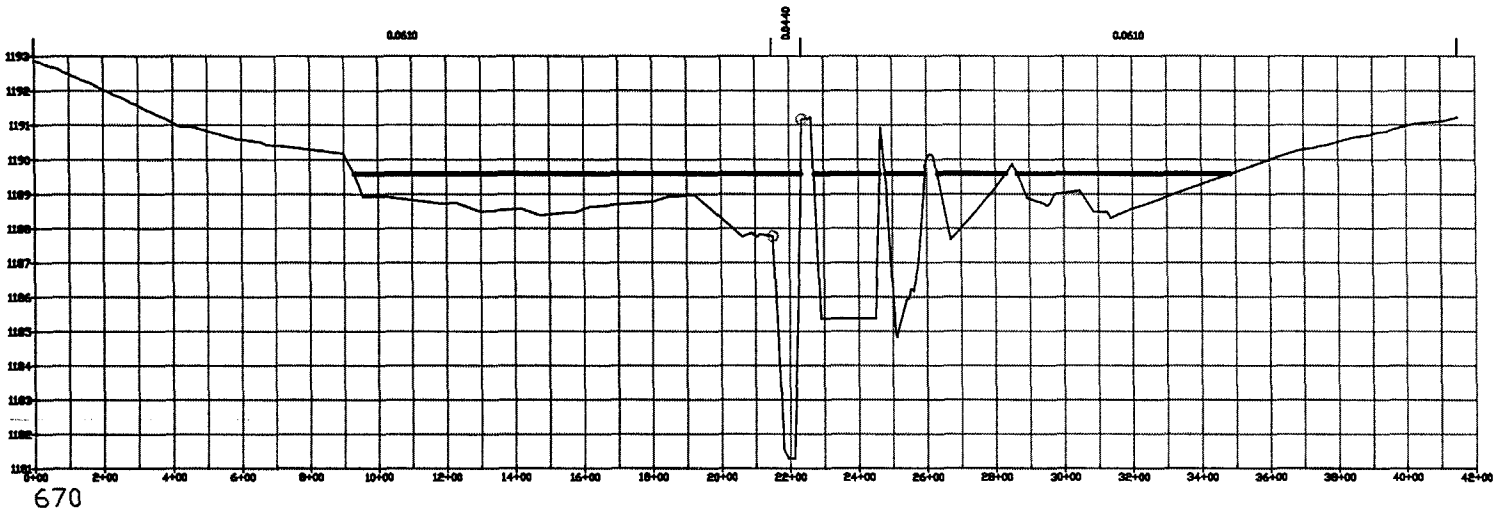
Cross-Section:	660	
Elevation:	1170.41	ft MSL
Depth:	6.27	ft
Discharge:	10320.00	cfs
Energy Gradient:	0.0052	ft/ft
Froude Number:	0.1617	
Flow Regime:	Subcritical	
Flow Area:	4494.53	sq ft
Average Velocity:	2.31	ft/s
Maximum Velocity:	6.21	ft/s
Composite n:	0.0606	
Hydraulic Radius:	1.27	ft
Wetted Perimeter:	3544.02	ft
Wetted Top Width:	3542.13	ft
Critical Slope:	0.2435	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S18–660

Entellus™

File: T1N-R6W-S18.dwg Date: 10/30/02



Normal Depth Results

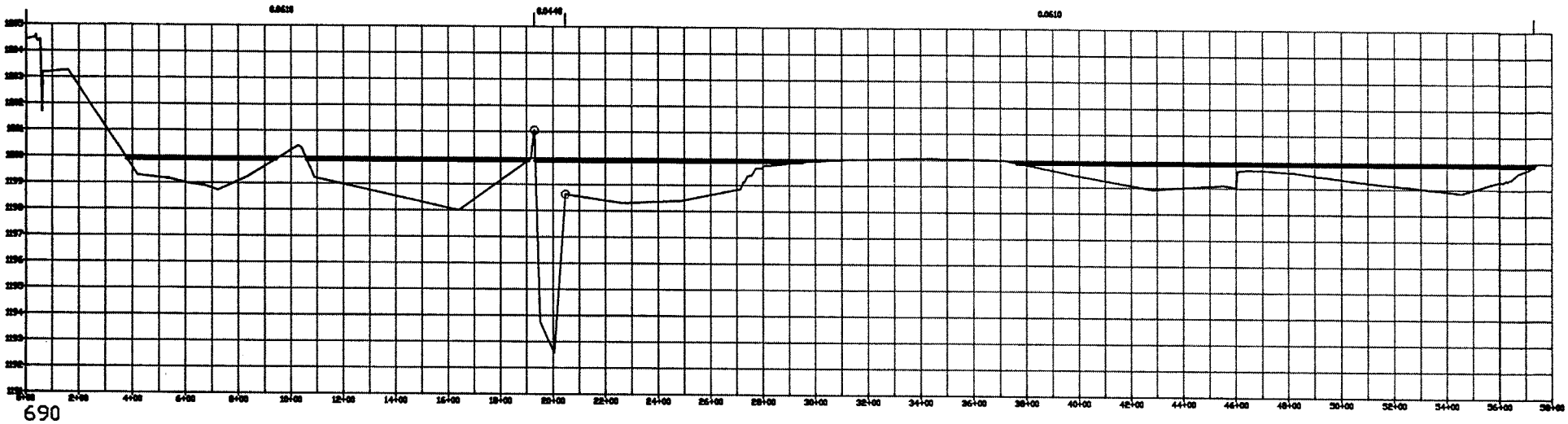
Cross-Section:	670	
Elevation:	1189.60	ft MSL
Depth:	8.31	ft
Discharge:	10060.00	cfs
Energy Gradient:	0.0052	ft/ft
Froude Number:	0.1795	
Flow Regime:	Subcritical	
Flow Area:	3425.88	sq ft
Average Velocity:	2.94	ft/s
Maximum Velocity:	7.97	ft/s
Composite n:	0.0604	
Hydraulic Radius:	1.4	ft
Wetted Perimeter:	2438.65	ft
Wetted Top Width:	2434.49	ft
Critical Slope:	0.2799	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S18–670

Entellus™

File: T1N-R6W-S18.dwg Date: 10/30/02



Normal Depth Results

Cross-Section:	690	
Elevation:	1199.91	ft MSL
Depth:	7.32	ft
Discharge:	10060.00	cfs
Energy Gradient:	0.0052	ft/ft
Froude Number:	0.1564	
Flow Regime:	Subcritical	
Flow Area:	4191.42	sq ft
Average Velocity:	2.40	ft/s
Maximum Velocity:	7.31	ft/s
Composite n:	0.0605	
Hydraulic Radius:	0.95	ft
Wetted Perimeter:	4392.73	ft
Wetted Top Width:	4391.17	ft
Critical Slope:	0.4143	ft/ft

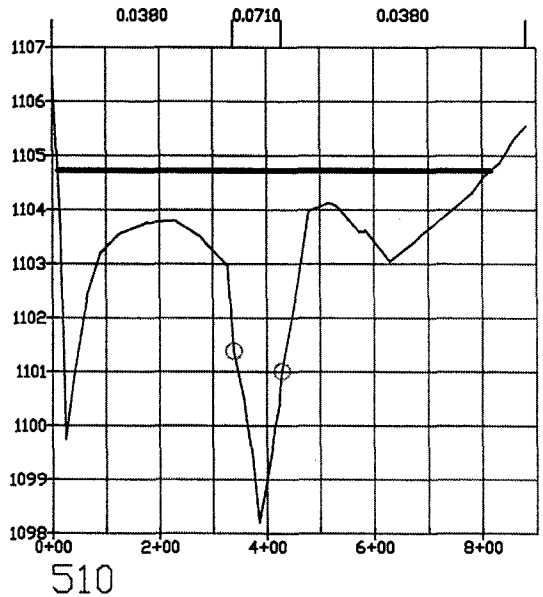
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S18–690

Entellus™

File: T1N-R6W-S18.dwg Date: 11/14/02

T1N-R6W-S20E



Normal Depth Results

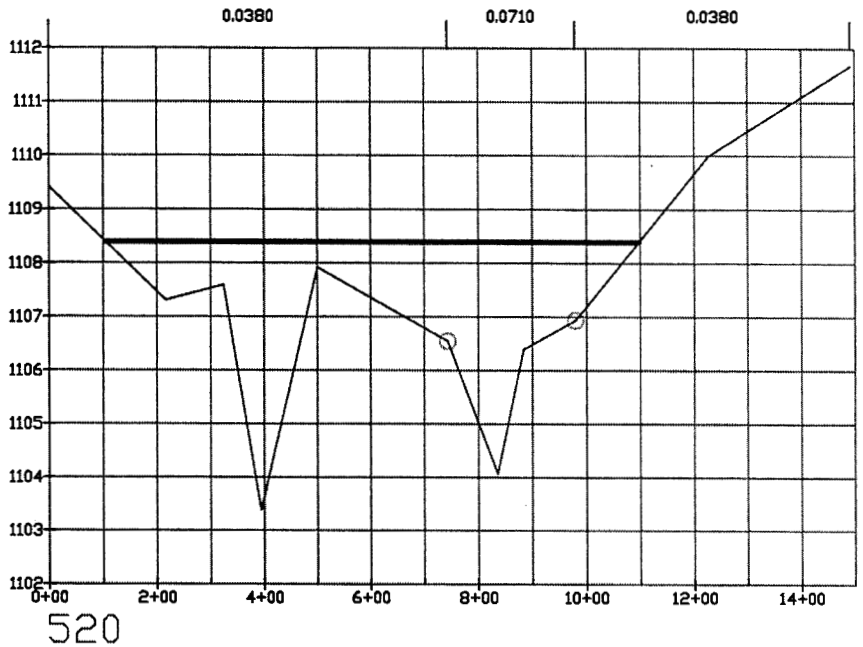
Cross-Section:	510	
Elevation:	1104.73	ft MSL
Depth:	6.52	ft
Discharge:	5040.00	cfs
Energy Gradient:	0.0047	ft/ft
Froude Number:	0.2471	
Flow Regime:	Subcritical	
Flow Area:	1407.85	sq ft
Average Velocity:	3.60	ft/s
Maximum Velocity:	4.18	ft/s
Composite n:	0.0422	
Hydraulic Radius:	1.74	ft
Wetted Perimeter:	807.50	ft
Wetted Top Width:	806.06	ft
Critical Slope:	0.0805	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S20E–510

Entellus™

File: T1N-R6W-S20E-Now-Mapping.dwg, Date: 10/30/02



Normal Depth Results

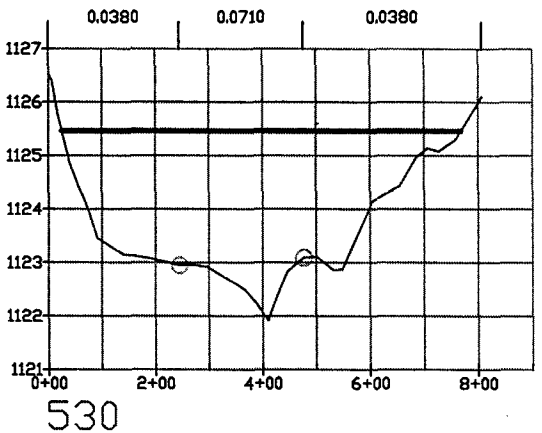
Cross-Section:	520	
Elevation:	1108.40	ft MSL
Depth:	5.02	ft
Discharge:	5040.00	cfs
Energy Gradient:	0.0047	ft/ft
Froude Number:	0.2439	
Flow Regime:	Subcritical	
Flow Area:	1626.43	sq ft
Average Velocity:	3.11	ft/s
Maximum Velocity:	3.47	ft/s
Composite n:	0.0468	
Hydraulic Radius:	1.64	ft
Wetted Perimeter:	992.89	ft
Wetted Top Width:	992.55	ft
Critical Slope:	0.0826	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S20E–520

Entellus™

File: T1N-R6W-S20E-New-Mapping.dwg, Date: 10/30/02



Normal Depth Results

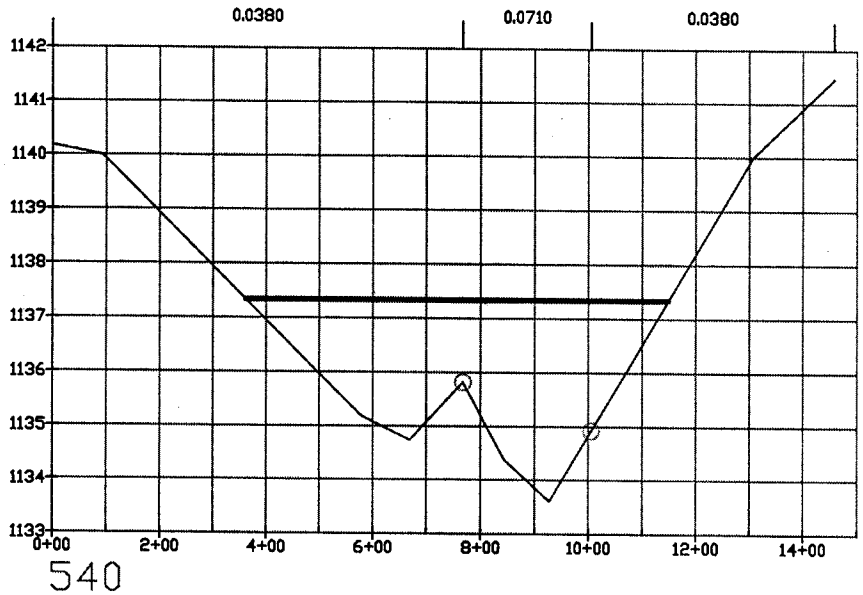
Cross-Section:	530	
Elevation:	1125.47	ft MSL
Depth:	3.55	ft
Discharge:	4950.00	cfs
Energy Gradient:	0.0047	ft/ft
Froude Number:	0.3142	
Flow Regime:	Subcritical	
Flow Area:	1473.75	sq ft
Average Velocity:	3.36	ft/s
Maximum Velocity:	4.19	ft/s
Composite n:	0.0494	
Hydraulic Radius:	1.98	ft
Wetted Perimeter:	743.59	ft
Wetted Top Width:	743.52	ft
Critical Slope:	0.0505	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S20E–530

Entellus™

File: T1N-R6W-S20E-New-Mapping.dwg; Date: 10/30/02



Normal Depth Results

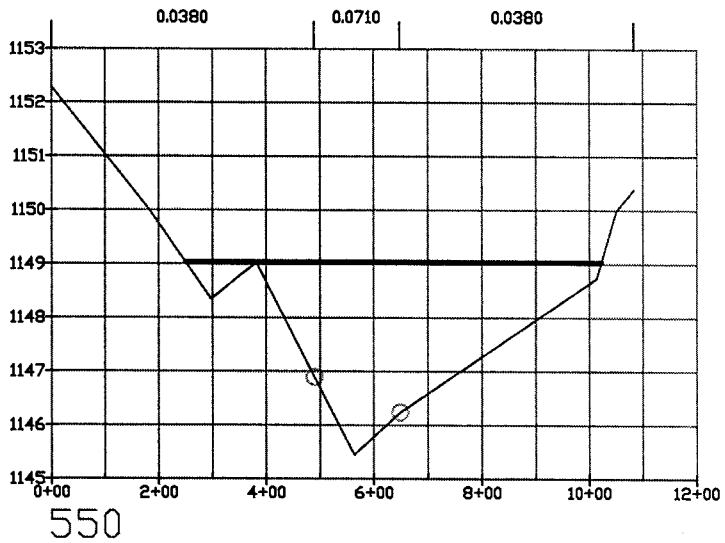
Cross-Section:	540	
Elevation:	1137.34	ft MSL
Depth:	3.73	ft
Discharge:	4950.00	cfs
Energy Gradient:	0.0047	ft/ft
Froude Number:	0.299	
Flow Regime:	Subcritical	
Flow Area:	1511.45	sq ft
Average Velocity:	3.26	ft/s
Maximum Velocity:	3.68	ft/s
Composite n:	0.0491	
Hydraulic Radius:	1.92	ft
Wetted Perimeter:	786.79	ft
Wetted Top Width:	786.72	ft
Critical Slope:	0.0545	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S20E–540

Entellus™

File: T1N-R6W-S20E-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

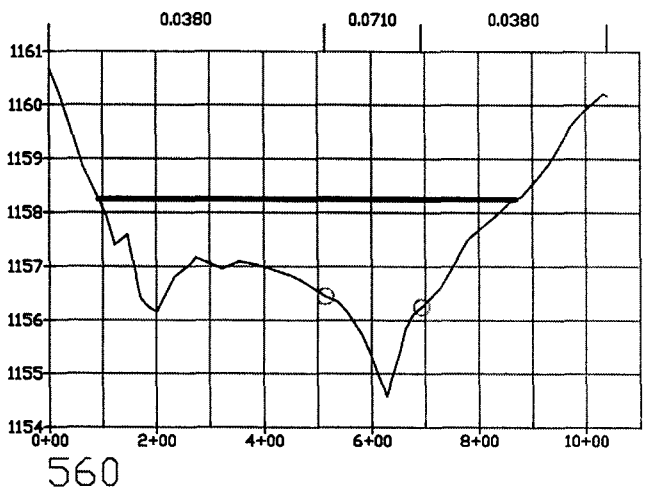
Cross-Section:	550	
Elevation:	1149.04	ft MSL
Depth:	3.59	ft
Discharge:	3790.00	cfs
Energy Gradient:	0.0047	ft/ft
Froude Number:	0.2912	
Flow Regime:	Subcritical	
Flow Area:	1211.08	sq ft
Average Velocity:	3.14	ft/s
Maximum Velocity:	3.55	ft/s
Composite n:	0.0457	
Hydraulic Radius:	1.57	ft
Wetted Perimeter:	773.00	ft
Wetted Top Width:	772.94	ft
Critical Slope:	0.0596	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S20E–550

Entellus™

File: T1N-R6W-S20E-New-Mapping.dwg, Date: 10/30/02



Normal Depth Results

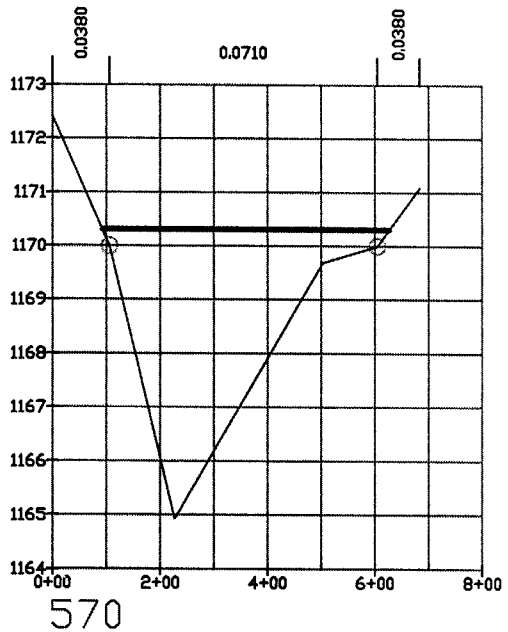
Cross-Section:	560	
Elevation:	1158.25	ft MSL
Depth:	3.66	ft
Discharge:	3790.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.3003	
Flow Regime:	Subcritical	
Flow Area:	1162.20	sq ft
Average Velocity:	3.28	ft/s
Maximum Velocity:	3.62	ft/s
Composite n:	0.0466	
Hydraulic Radius:	1.49	ft
Wetted Perimeter:	777.49	ft
Wetted Top Width:	777.37	ft
Critical Slope:	0.0675	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S20E–560

Entellus™

File: T1N-R6W-S20E-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

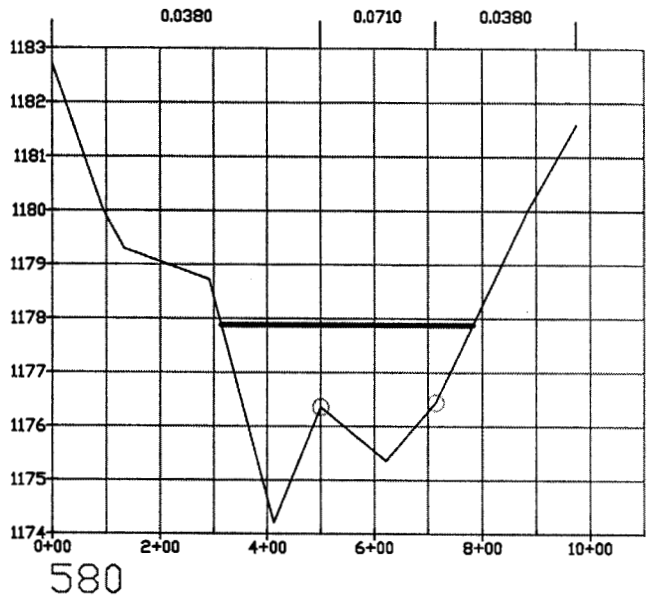
Cross-Section:	570	
Elevation:	1170.31	ft MSL
Depth:	5.38	ft
Discharge:	3620.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.2246	
Flow Regime:	Subcritical	
Flow Area:	1224.76	sq ft
Average Velocity:	2.94	ft/s
Maximum Velocity:	2.95	ft/s
Composite n:	0.069	
Hydraulic Radius:	2.29	ft
Wetted Perimeter:	534.68	ft
Wetted Top Width:	534.53	ft
Critical Slope:	0.1231	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S20E–570

Entellus™

File: T1N-R6W-S20E-New-Mapping.dwg; Date: 10/30/02



Normal Depth Results

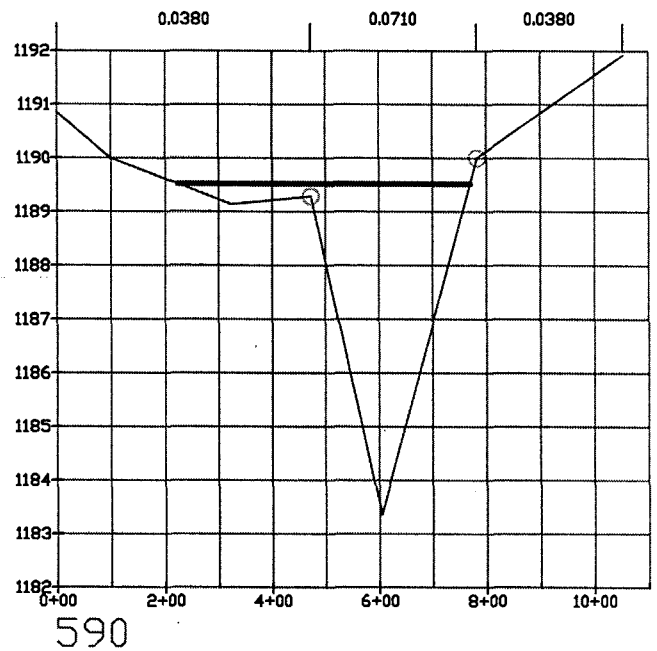
Cross-Section:	580	
Elevation:	1177.88	ft MSL
Depth:	3.67	ft
Discharge:	3320.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.344	
Flow Regime:	Subcritical	
Flow Area:	887.79	sq ft
Average Velocity:	3.75	ft/s
Maximum Velocity:	5.13	ft/s
Composite n:	0.0543	
Hydraulic Radius:	1.89	ft
Wetted Perimeter:	469.07	ft
Wetted Top Width:	468.95	ft
Critical Slope:	0.0671	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S20E–580

Entellus™

File: T1N-R6W-S20E-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

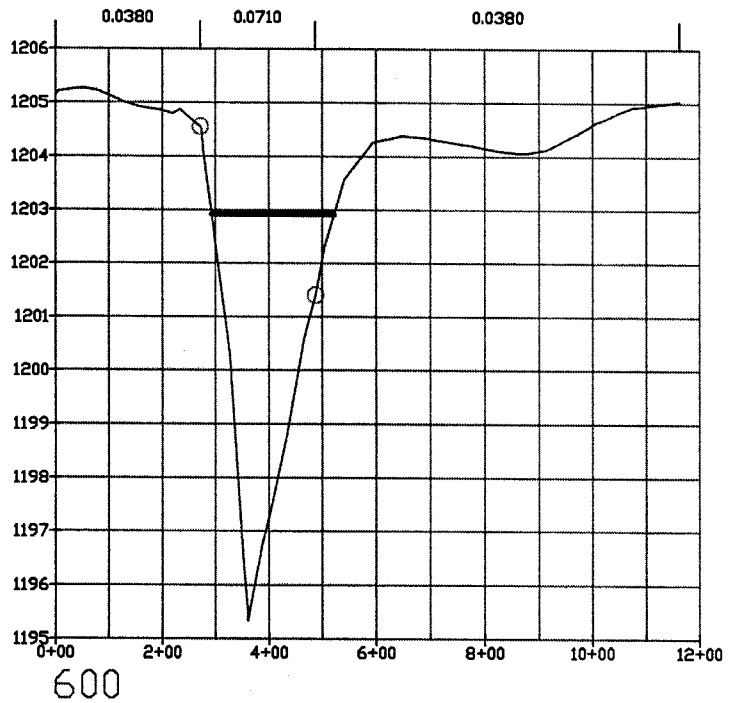
Cross-Section:	590	
Elevation:	1189.52	ft MSL
Depth:	6.16	ft
Discharge:	3320.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.2368	
Flow Regime:	Subcritical	
Flow Area:	996.01	sq ft
Average Velocity:	3.33	ft/s
Maximum Velocity:	3.48	ft/s
Composite n:	0.0572	
Hydraulic Radius:	1.82	ft
Wetted Perimeter:	546.20	ft
Wetted Top Width:	545.95	ft
Critical Slope:	0.131	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S20E–590

Entellus™

File: T1N-R6W-S20E-New-Mapping.dwg, Date: 10/30/02



Normal Depth Results

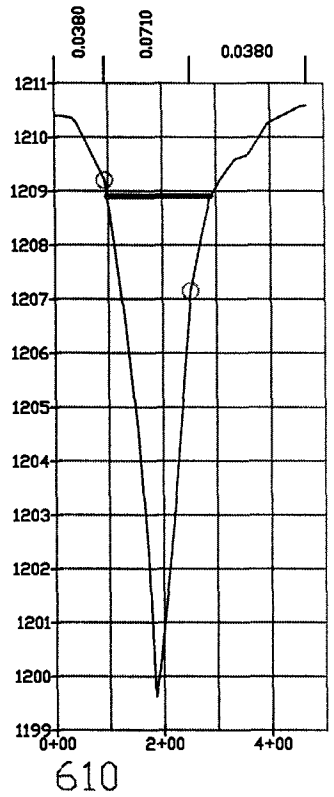
Cross-Section:	600	
Elevation:	1202.92	ft MSL
Depth:	7.58	ft
Discharge:	3320.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.2613	
Flow Regime:	Subcritical	
Flow Area:	813.38	sq ft
Average Velocity:	4.07	ft/s
Maximum Velocity:	4.12	ft/s
Composite n:	0.0665	
Hydraulic Radius:	3.53	ft
Wetted Perimeter:	230.15	ft
Wetted Top Width:	229.50	ft
Critical Slope:	0.0905	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S20E–600

Entellus™

File: T1N-R6W-S20E-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

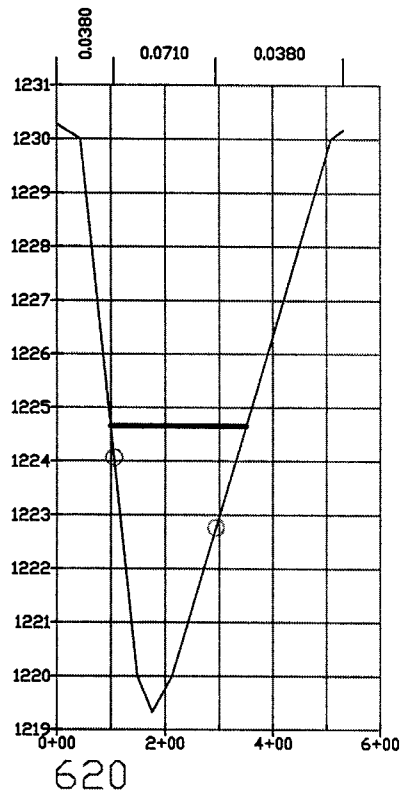
Cross-Section:	610	
Elevation:	1208.91	ft MSL
Depth:	9.27	ft
Discharge:	3320.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.2567	
Flow Regime:	Subcritical	
Flow Area:	748.71	sq ft
Average Velocity:	4.43	ft/s
Maximum Velocity:	4.50	ft/s
Composite n:	0.0651	
Hydraulic Radius:	3.86	ft
Wetted Perimeter:	194.05	ft
Wetted Top Width:	192.99	ft
Critical Slope:	0.0942	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S20E–610

Entellus™

File: T1N-R6W-S20E-New-Mapping.dwg, Date: 10/30/02



Normal Depth Results

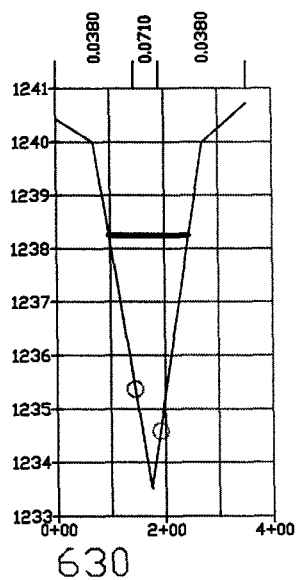
Cross-Section:	620	
Elevation:	1224.66	ft MSL
Depth:	5.33	ft
Discharge:	2870.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.2915	
Flow Regime:	Subcritical	
Flow Area:	752.03	sq ft
Average Velocity:	3.81	ft/s
Maximum Velocity:	3.89	ft/s
Composite n:	0.0636	
Hydraulic Radius:	3	ft
Wetted Perimeter:	250.74	ft
Wetted Top Width:	250.43	ft
Critical Slope:	0.0723	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S20E–620

Entellus™

File: T1N-R6W-S20E-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

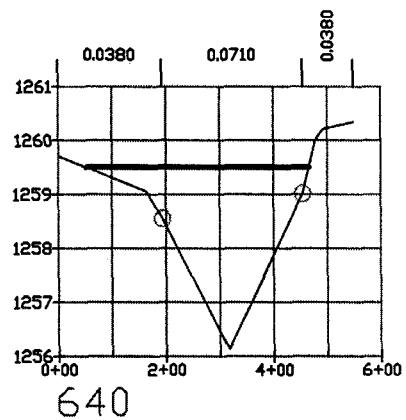
Cross-Section:	630	
Elevation:	1238.26	ft MSL
Depth:	4.74	ft
Discharge:	1570.00	cfs
Energy Gradient:	0.007	ft/ft
Froude Number:	0.3642	
Flow Regime:	Subcritical	
Flow Area:	349.21	sq ft
Average Velocity:	4.49	ft/s
Maximum Velocity:	4.91	ft/s
Composite n:	0.0494	
Hydraulic Radius:	2.36	ft
Wetted Perimeter:	147.78	ft
Wetted Top Width:	147.48	ft
Critical Slope:	0.0533	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S20E–630

Entellus™

File: T1N-R6W-S20E-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

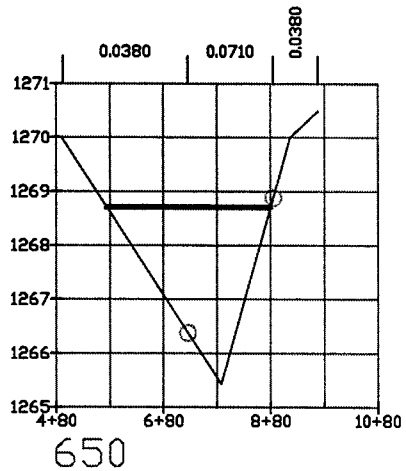
Cross-Section:	640	
Elevation:	1259.51	ft MSL
Depth:	3.37	ft
Discharge:	1570.00	cfs
Energy Gradient:	0.007	ft/ft
Froude Number:	0.2591	
Flow Regime:	Subcritical	
Flow Area:	581.43	sq ft
Average Velocity:	2.72	ft/s
Maximum Velocity:	2.82	ft/s
Composite n:	0.0599	
Hydraulic Radius:	1.41	ft
Wetted Perimeter:	413.63	ft
Wetted Top Width:	413.56	ft
Critical Slope:	0.1117	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S20E–640

Entellus™

File: T1N-R6W-S20E-New-Mapping.dwg; Date: 10/30/02



Normal Depth Results

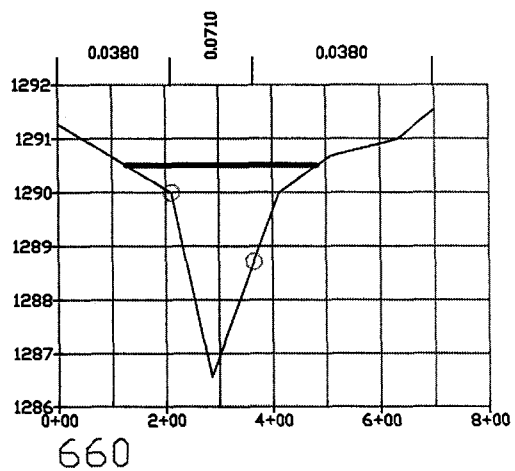
Cross-Section:	650	
Elevation:	1268.71	ft MSL
Depth:	3.28	ft
Discharge:	1570.00	cfs
Energy Gradient:	0.007	ft/ft
Froude Number:	0.3045	
Flow Regime:	Subcritical	
Flow Area:	501.98	sq ft
Average Velocity:	3.15	ft/s
Maximum Velocity:	3.63	ft/s
Composite n:	0.0558	
Hydraulic Radius:	1.64	ft
Wetted Perimeter:	306.27	ft
Wetted Top Width:	306.19	ft
Critical Slope:	0.0767	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S20E–650

Entellus™

File: T1N-R6W-S20E-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

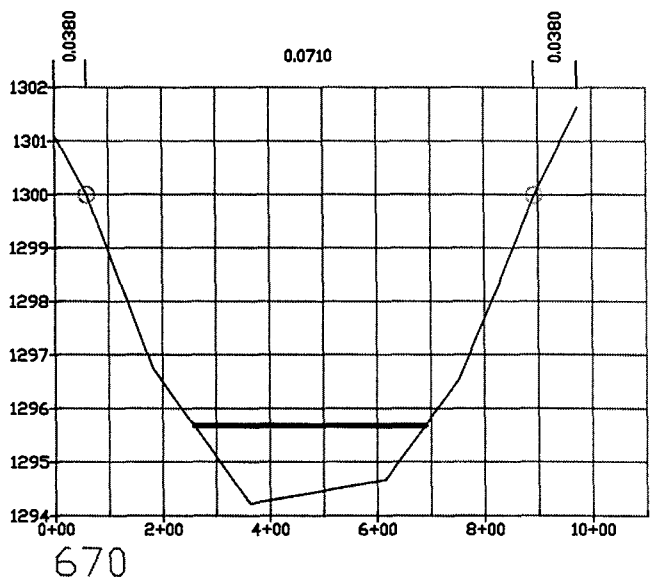
Cross-Section:	660	
Elevation:	1290.51	ft MSL
Depth:	3.95	ft
Discharge:	1490.00	cfs
Energy Gradient:	0.007	ft/ft
Froude Number:	0.2708	
Flow Regime:	Subcritical	
Flow Area:	488.11	sq ft
Average Velocity:	3.06	ft/s
Maximum Velocity:	3.28	ft/s
Composite n:	0.0535	
Hydraulic Radius:	1.37	ft
Wetted Perimeter:	357.26	ft
Wetted Top Width:	357.13	ft
Critical Slope:	0.1081	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S20E–660

Entellus™

File: T1N-R6W-S20E-New-Mapping.dwg, Date: 10/30/02



Normal Depth Results

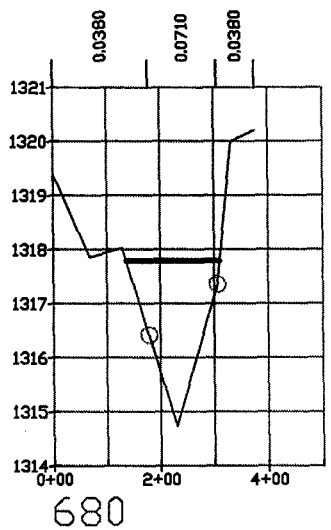
Cross-Section:	670	
Elevation:	1295.68	ft MSL
Depth:	1.46	ft
Discharge:	770.00	cfs
Energy Gradient:	0.0075	ft/ft
Froude Number:	0.2626	
Flow Regime:	Subcritical	
Flow Area:	427.84	sq ft
Average Velocity:	1.81	ft/s
Maximum Velocity:	1.81	ft/s
Composite n:	0.071	
Hydraulic Radius:	0.99	ft
Wetted Perimeter:	432.02	ft
Wetted Top Width:	432.01	ft
Critical Slope:	0.1079	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S20E–670

Entellus™

File: T1N-R6W-S20E-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

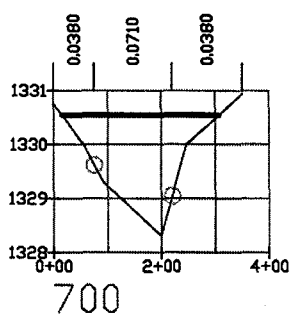
Cross-Section:	680	
Elevation:	1317.79	ft MSL
Depth:	3.05	ft
Discharge:	770.00	cfs
Energy Gradient:	0.0075	ft/ft
Froude Number:	0.2808	
Flow Regime:	Subcritical	
Flow Area:	276.60	sq ft
Average Velocity:	2.80	ft/s
Maximum Velocity:	2.82	ft/s
Composite n:	0.063	
Hydraulic Radius:	1.59	ft
Wetted Perimeter:	174.23	ft
Wetted Top Width:	174.12	ft
Critical Slope:	0.095	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S20E–680

Entellus™

File: T1N-R6W-S20E-New-Mapping.dwg, Date: 10/30/02



Normal Depth Results

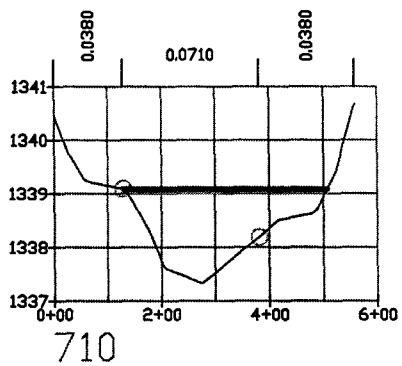
Cross-Section:	700	
Elevation:	1330.54	ft MSL
Depth:	2.23	ft
Discharge:	770.00	cfs
Energy Gradient:	0.0075	ft/ft
Froude Number:	0.2909	
Flow Regime:	Subcritical	
Flow Area:	312.24	sq ft
Average Velocity:	2.46	ft/s
Maximum Velocity:	2.57	ft/s
Composite n:	0.0556	
Hydraulic Radius:	1.07	ft
Wetted Perimeter:	291.22	ft
Wetted Top Width:	291.17	ft
Critical Slope:	0.0913	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S20E–700

Entellus™

File: T1N-K6W-S20E-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

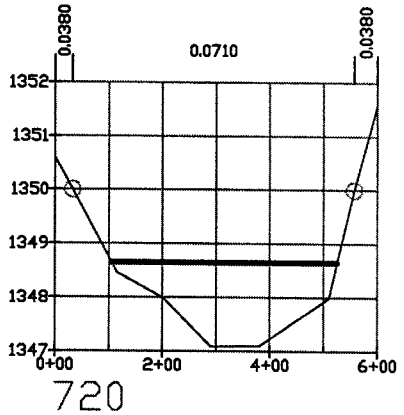
Cross-Section:	710	
Elevation:	1339.09	ft MSL
Depth:	1.76	ft
Discharge:	770.00	cfs
Energy Gradient:	0.0075	ft/ft
Froude Number:	0.2777	
Flow Regime:	Subcritical	
Flow Area:	368.73	sq ft
Average Velocity:	2.08	ft/s
Maximum Velocity:	2.21	ft/s
Composite n:	0.061	
Hydraulic Radius:	0.98	ft
Wetted Perimeter:	377.60	ft
Wetted Top Width:	377.58	ft
Critical Slope:	0.0979	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S20E–710

Entellus™

File: T1N-R6W-S20E-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

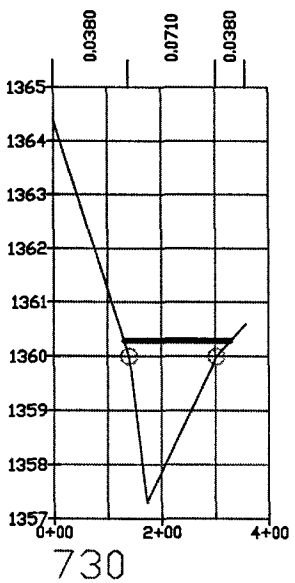
Cross-Section:	720	
Elevation:	1348.65	ft MSL
Depth:	1.56	ft
Discharge:	770.00	cfs
Energy Gradient:	0.0075	ft/ft
Froude Number:	0.2565	
Flow Regime:	Subcritical	
Flow Area:	423.89	sq ft
Average Velocity:	1.83	ft/s
Maximum Velocity:	1.83	ft/s
Composite n:	0.071	
Hydraulic Radius:	1.01	ft
Wetted Perimeter:	419.94	ft
Wetted Top Width:	419.91	ft
Critical Slope:	0.1124	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S20E–720

Entellus™

File: T1N-R6W-S20E-New-Mapping.dwg; Date: 10/30/02



Normal Depth Results

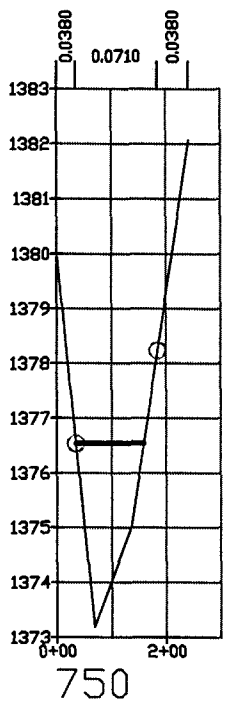
Cross-Section:	730	
Elevation:	1360.28	ft MSL
Depth:	2.98	ft
Discharge:	670.00	cfs
Energy Gradient:	0.0075	ft/ft
Froude Number:	0.2522	
Flow Regime:	Subcritical	
Flow Area:	271.12	sq ft
Average Velocity:	2.49	ft/s
Maximum Velocity:	2.52	ft/s
Composite n:	0.0658	
Hydraulic Radius:	1.37	ft
Wetted Perimeter:	197.97	ft
Wetted Top Width:	197.82	ft
Critical Slope:	0.1231	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S20E–730

Entellus™

File: T1N-R6W-S20E-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

Cross-Section:	750	
Elevation:	1376.55	ft MSL
Depth:	3.36	ft
Discharge:	670.00	cfs
Energy Gradient:	0.0075	ft/ft
Froude Number:	0.2695	
Flow Regime:	Subcritical	
Flow Area:	239.15	sq ft
Average Velocity:	2.81	ft/s
Maximum Velocity:	2.81	ft/s
Composite n:	0.0709	
Hydraulic Radius:	1.92	ft
Wetted Perimeter:	124.38	ft
Wetted Top Width:	124.14	ft
Critical Slope:	0.1025	ft/ft

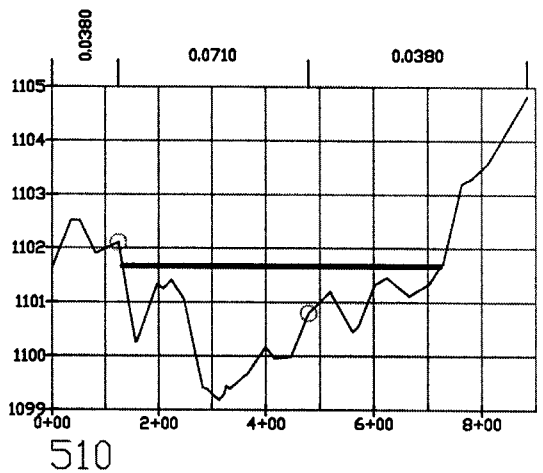
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1N–R6W–S20E–750

Entellus™

File: T1N-R6W-S20E-New-Mapping.dwg Date: 10/30/02

T1S-R6W-S27



Normal Depth Results

Cross-Section:	510	
Elevation:	1101.66	ft MSL
Depth:	2.48	ft
Discharge:	1180.00	cfs
Energy Gradient:	0.005	ft/ft
Froude Number:	0.2104	
Flow Regime:	Subcritical	
Flow Area:	627.10	sq ft
Average Velocity:	1.87	ft/s
Maximum Velocity:	1.89	ft/s
Composite n:	0.0585	
Hydraulic Radius:	1.06	ft
Wetted Perimeter:	592.65	ft
Wetted Top Width:	592.51	ft
Critical Slope:	0.1143	ft/ft

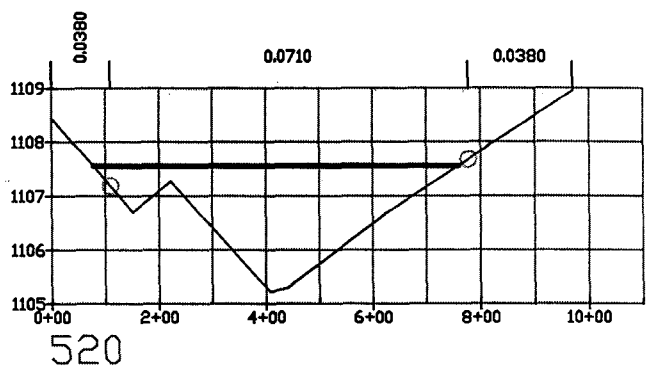
NOT USED IN DELINEATION

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S27–510

Entellus™

File: T1S-R6W-S27-New-Mapping.dwg, Date: 10/23/02



Normal Depth Results

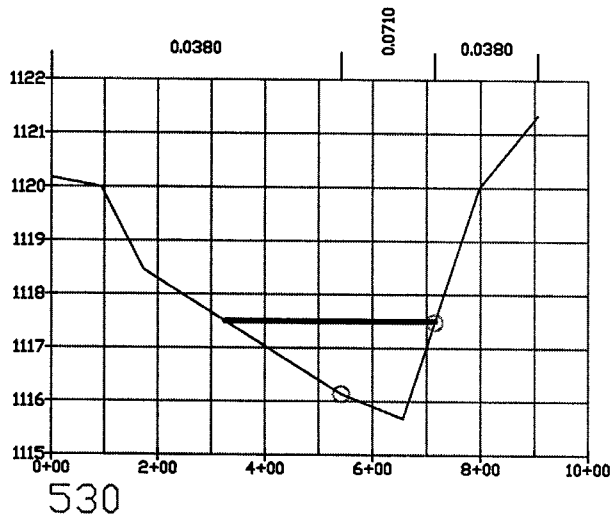
Cross-Section:	520	
Elevation:	1107.56	ft MSL
Depth:	2.34	ft
Discharge:	1180.00	cfs
Energy Gradient:	0.005	ft/ft
Froude Number:	0.1838	
Flow Regime:	Subcritical	
Flow Area:	740.21	sq ft
Average Velocity:	1.60	ft/s
Maximum Velocity:	1.61	ft/s
Composite n:	0.0696	
Hydraulic Radius:	1.09	ft
Wetted Perimeter:	681.91	ft
Wetted Top Width:	681.88	ft
Critical Slope:	0.1472	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S27–520

Entellus™

File: T1S-R6W-S27-New-Mapping.dwg, Date: 10/23/02



Normal Depth Results

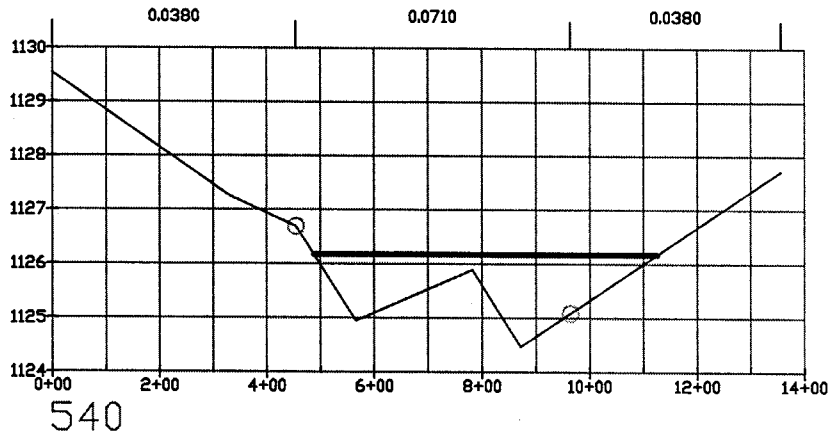
Cross-Section:	530	
Elevation:	1117.50	ft MSL
Depth:	1.82	ft
Discharge:	750.00	cfs
Energy Gradient:	0.005	ft/ft
Froude Number:	0.2554	
Flow Regime:	Subcritical	
Flow Area:	383.52	sq ft
Average Velocity:	1.95	ft/s
Maximum Velocity:	2.15	ft/s
Composite n:	0.0539	
Hydraulic Radius:	0.98	ft
Wetted Perimeter:	390.21	ft
Wetted Top Width:	390.17	ft
Critical Slope:	0.0785	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S27–530

Entellus™

File: T1S-R6W-S27-New-Mapping.dwg; Date: 10/23/02



Normal Depth Results

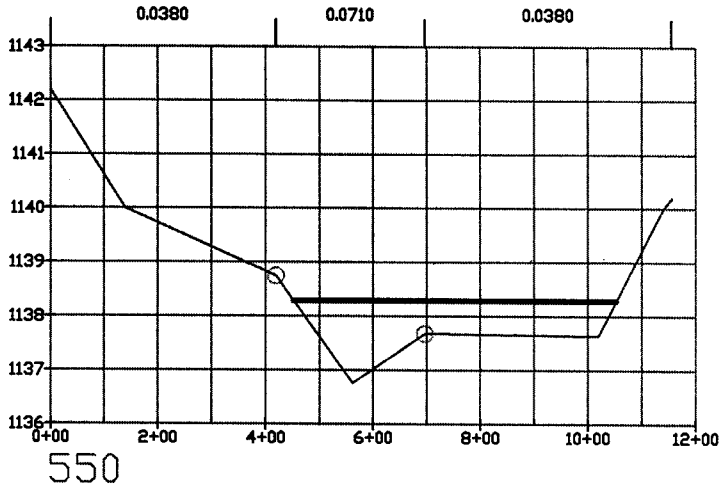
Cross-Section:	540	
Elevation:	1126.17	ft MSL
Depth:	1.70	ft
Discharge:	750.00	cfs
Energy Gradient:	0.005	ft/ft
Froude Number:	0.1966	
Flow Regime:	Subcritical	
Flow Area:	515.43	sq ft
Average Velocity:	1.46	ft/s
Maximum Velocity:	1.84	ft/s
Composite n:	0.0635	
Hydraulic Radius:	0.81	ft
Wetted Perimeter:	638.02	ft
Wetted Top Width:	637.99	ft
Critical Slope:	0.1322	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S27–540

Entellus™

File: T1S-R6W-S27-New-Mapping.dwg; Date: 10/23/02



Normal Depth Results

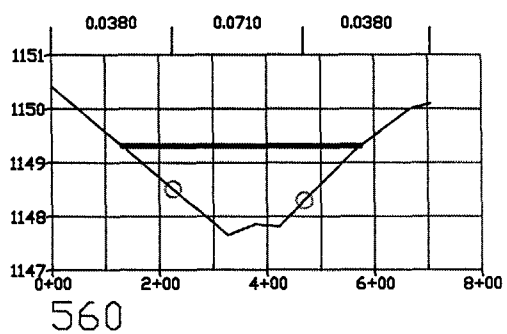
Cross-Section:	550	
Elevation:	1138.29	ft MSL
Depth:	1.53	ft
Discharge:	750.00	cfs
Energy Gradient:	0.005	ft/ft
Froude Number:	0.2422	
Flow Regime:	Subcritical	
Flow Area:	441.56	sq ft
Average Velocity:	1.69	ft/s
Maximum Velocity:	1.97	ft/s
Composite n:	0.0526	
Hydraulic Radius:	0.74	ft
Wetted Perimeter:	600.58	ft
Wetted Top Width:	600.56	ft
Critical Slope:	0.0926	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S27–550

Entellus™

File: T1S-R6W-S27-New-Mapping.dwg, Date: 10/23/02



Normal Depth Results

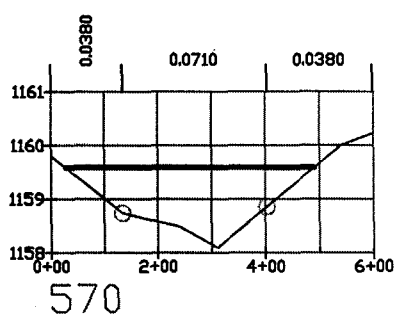
Cross-Section:	560	
Elevation:	1149.31	ft MSL
Depth:	1.66	ft
Discharge:	750.00	cfs
Energy Gradient:	0.005	ft/ft
Froude Number:	0.2446	
Flow Regime:	Subcritical	
Flow Area:	419.24	sq ft
Average Velocity:	1.78	ft/s
Maximum Velocity:	1.81	ft/s
Composite n:	0.0573	
Hydraulic Radius:	0.95	ft
Wetted Perimeter:	442.37	ft
Wetted Top Width:	442.35	ft
Critical Slope:	0.0852	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S27–560

Entellus™

File: T1S-R6W-S27-New-Mapping.dwg Date: 10/23/02



Normal Depth Results

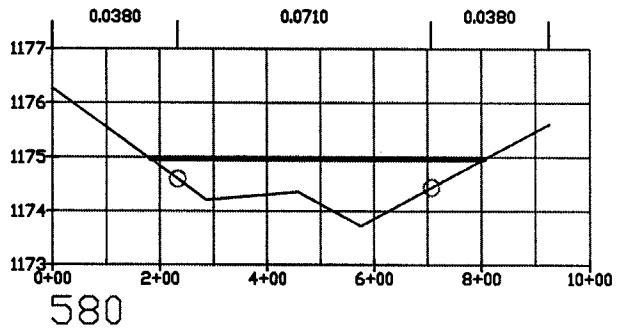
Cross-Section:	570	
Elevation:	1159.59	ft MSL
Depth:	1.49	ft
Discharge:	750.00	cfs
Energy Gradient:	0.0062	ft/ft
Froude Number:	0.2902	
Flow Regime:	Subcritical	
Flow Area:	373.59	sq ft
Average Velocity:	2.04	ft/s
Maximum Velocity:	2.54	ft/s
Composite n:	0.0518	
Hydraulic Radius:	0.81	ft
Wetted Perimeter:	462.96	ft
Wetted Top Width:	462.95	ft
Critical Slope:	0.0771	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S27–570

Entellus™

File: T1S-R6W-S27-New-Mapping.dwg Date: 10/23/02



Normal Depth Results

Cross-Section:	580	
Elevation:	1174.97	ft MSL
Depth:	1.24	ft
Discharge:	560.00	cfs
Energy Gradient:	0.0062	ft/ft
Froude Number:	0.2187	
Flow Regime:	Subcritical	
Flow Area:	406.09	sq ft
Average Velocity:	1.39	ft/s
Maximum Velocity:	1.40	ft/s
Composite n:	0.0639	
Hydraulic Radius:	0.65	ft
Wetted Perimeter:	623.01	ft
Wetted Top Width:	623.00	ft
Critical Slope:	0.1295	ft/ft

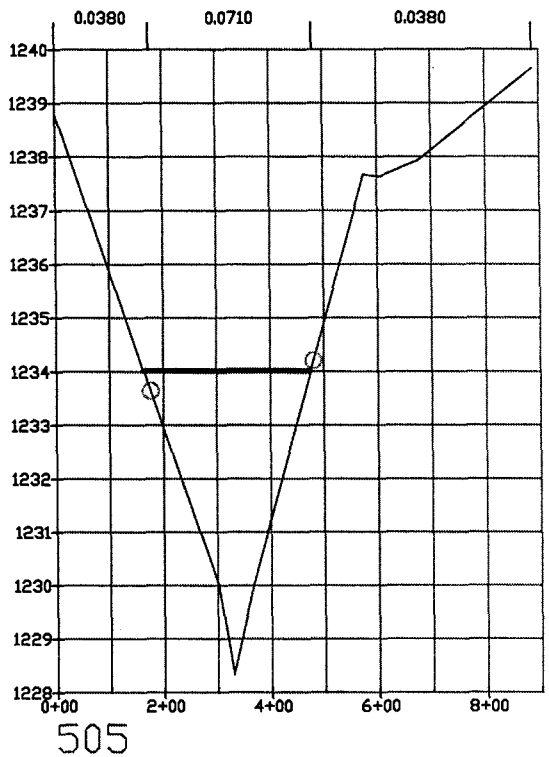
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T1S–R6W–S27–580

Entellus™

File: T1S-R6W-S27-New-Mapping.dwg, Date: 10/23/02

T2N-R6W-S02



Normal Depth Results

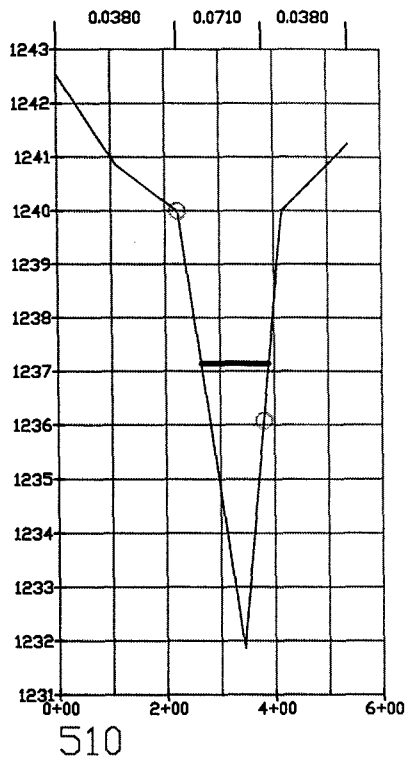
Cross-Section:	505	
Elevation:	1234.01	ft MSL
Depth:	5.67	ft
Discharge:	2660.00	cfs
Energy Gradient:	0.0065	ft/ft
Froude Number:	0.2429	
Flow Regime:	Subcritical	
Flow Area:	810.44	sq ft
Average Velocity:	3.27	ft/s
Maximum Velocity:	3.28	ft/s
Composite n:	0.0698	
Hydraulic Radius:	2.6	ft
Wetted Perimeter:	312.19	ft
Wetted Top Width:	311.97	ft
Critical Slope:	0.1124	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S02–505

Entellus™

File: T2N-R6W-S02-New-Mapping.dwg; Date: 10/30/02



Normal Depth Results

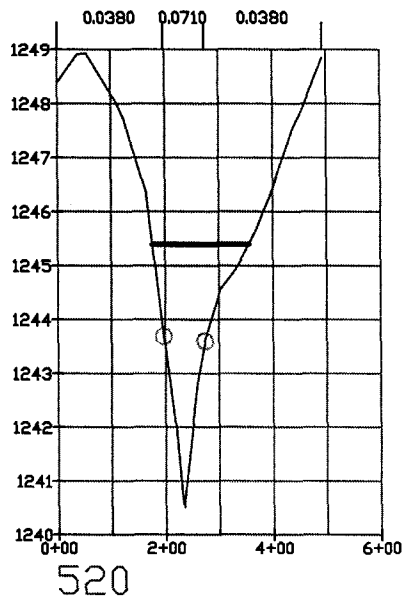
Cross-Section:	510	
Elevation:	1237.14	ft MSL
Depth:	5.27	ft
Discharge:	1100.00	cfs
Energy Gradient:	0.0065	ft/ft
Froude Number:	0.2564	
Flow Regime:	Subcritical	
Flow Area:	329.28	sq ft
Average Velocity:	3.34	ft/s
Maximum Velocity:	3.36	ft/s
Composite n:	0.0688	
Hydraulic Radius:	2.63	ft
Wetted Perimeter:	125.33	ft
Wetted Top Width:	124.86	ft
Critical Slope:	0.0998	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S02–510

Entellus™

File: T2N-R6W-S02-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

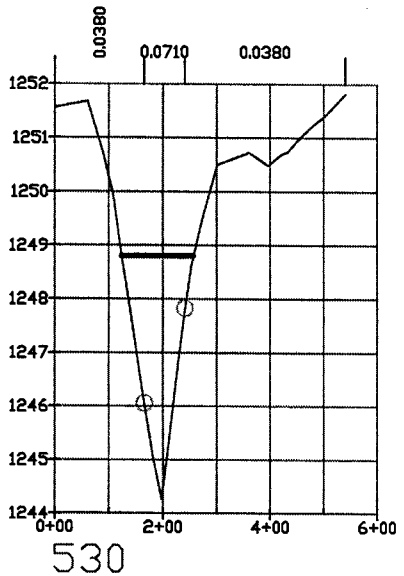
Cross-Section:	520	
Elevation:	1245.40	ft MSL
Depth:	4.89	ft
Discharge:	1100.00	cfs
Energy Gradient:	0.0065	ft/ft
Froude Number:	0.2714	
Flow Regime:	Subcritical	
Flow Area:	323.06	sq ft
Average Velocity:	3.40	ft/s
Maximum Velocity:	3.64	ft/s
Composite n:	0.0533	
Hydraulic Radius:	1.8	ft
Wetted Perimeter:	179.92	ft
Wetted Top Width:	179.56	ft
Critical Slope:	0.0924	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S02–520

Entellus™

File: T2N-R6W-S02-New-Mapping.dwg, Date: 10/30/02



Normal Depth Results

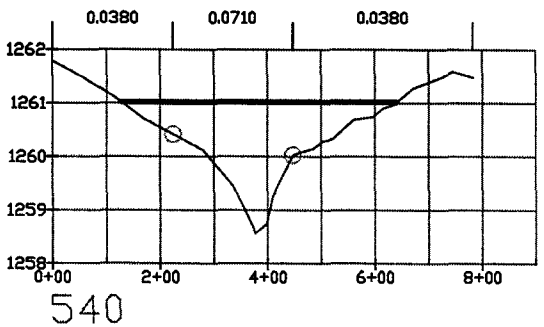
Cross-Section:	530	
Elevation:	1248.80	ft MSL
Depth:	4.53	ft
Discharge:	1100.00	cfs
Energy Gradient:	0.0065	ft/ft
Froude Number:	0.3019	
Flow Regime:	Subcritical	
Flow Area:	301.65	sq ft
Average Velocity:	3.64	ft/s
Maximum Velocity:	3.90	ft/s
Composite n:	0.0577	
Hydraulic Radius:	2.26	ft
Wetted Perimeter:	133.77	ft
Wetted Top Width:	133.45	ft
Critical Slope:	0.0741	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S02–530

Entellus™

File: T2N-R6W-S02-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

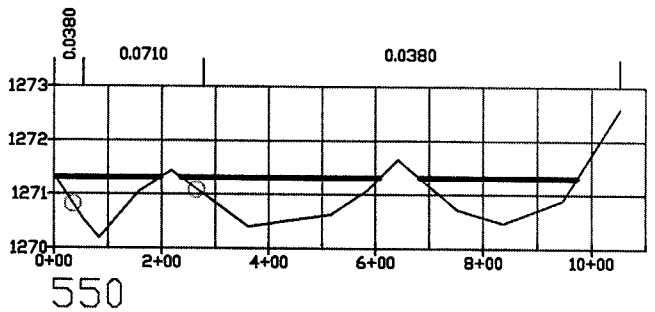
Cross-Section:	540	
Elevation:	1261.02	ft MSL
Depth:	2.46	ft
Discharge:	930.00	cfs
Energy Gradient:	0.0065	ft/ft
Froude Number:	0.2319	
Flow Regime:	Subcritical	
Flow Area:	450.42	sq ft
Average Velocity:	2.07	ft/s
Maximum Velocity:	2.15	ft/s
Composite n:	0.0536	
Hydraulic Radius:	0.88	ft
Wetted Perimeter:	514.62	ft
Wetted Top Width:	514.58	ft
Critical Slope:	0.1225	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S02–540

Entellus™

File: T2N-R6W-S02-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

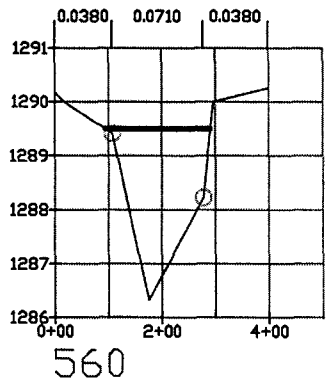
Cross-Section:	550	
Elevation:	1271.31	ft MSL
Depth:	1.12	ft
Discharge:	930.00	cfs
Energy Gradient:	0.0065	ft/ft
Froude Number:	0.3266	
Flow Regime:	Subcritical	
Flow Area:	474.13	sq ft
Average Velocity:	1.97	ft/s
Maximum Velocity:	2.20	ft/s
Composite n:	0.0458	
Hydraulic Radius:	0.55	ft
Wetted Perimeter:	857.61	ft
Wetted Top Width:	857.58	ft
Critical Slope:	0.0751	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S02–550

Entellus™

File: T2N-R6W-S02-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

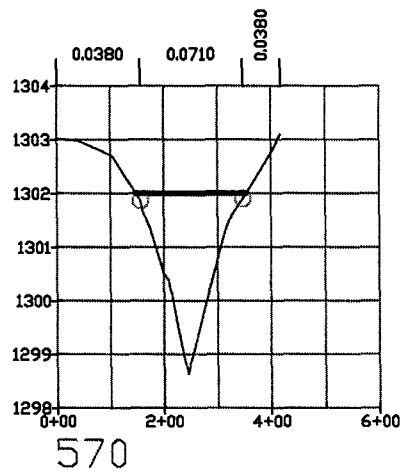
Cross-Section:	560	
Elevation:	1289.50	ft MSL
Depth:	3.17	ft
Discharge:	930.00	cfs
Energy Gradient:	0.0065	ft/ft
Froude Number:	0.2653	
Flow Regime:	Subcritical	
Flow Area:	346.91	sq ft
Average Velocity:	2.66	ft/s
Maximum Velocity:	2.67	ft/s
Composite n:	0.067	
Hydraulic Radius:	1.77	ft
Wetted Perimeter:	196.39	ft
Wetted Top Width:	196.24	ft
Critical Slope:	0.0969	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S02–560

Entellus™

File: T2N-R6W-S02-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

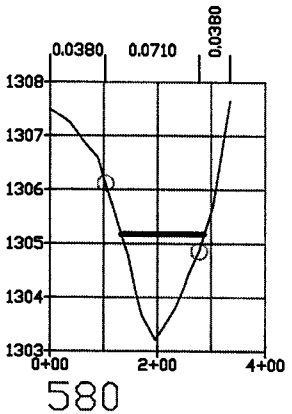
Cross-Section:	570	
Elevation:	1302.00	ft MSL
Depth:	3.36	ft
Discharge:	930.00	cfs
Energy Gradient:	0.0065	ft/ft
Froude Number:	0.3054	
Flow Regime:	Subcritical	
Flow Area:	292.79	sq ft
Average Velocity:	3.18	ft/s
Maximum Velocity:	3.31	ft/s
Composite n:	0.0481	
Hydraulic Radius:	1.42	ft
Wetted Perimeter:	206.30	ft
Wetted Top Width:	206.18	ft
Critical Slope:	0.0708	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S02–570

Entellus™

File: T2N-R6W-S02-New-Mapping.dwg, Date: 10/30/02



Normal Depth Results

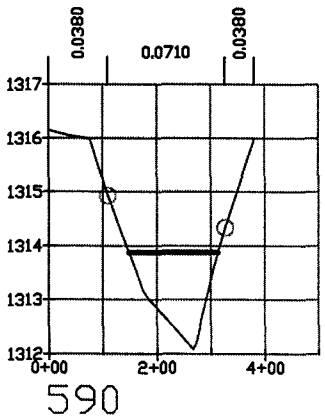
Cross-Section:	580	
Elevation:	1305.17	ft MSL
Depth:	1.96	ft
Discharge:	420.00	cfs
Energy Gradient:	0.0065	ft/ft
Froude Number:	0.3068	
Flow Regime:	Subcritical	
Flow Area:	172.16	sq ft
Average Velocity:	2.43	ft/s
Maximum Velocity:	2.97	ft/s
Composite n:	0.0555	
Hydraulic Radius:	1.11	ft
Wetted Perimeter:	154.75	ft
Wetted Top Width:	154.70	ft
Critical Slope:	0.0762	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S02–580

Entellus™

File: T2N-R6W-S02-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

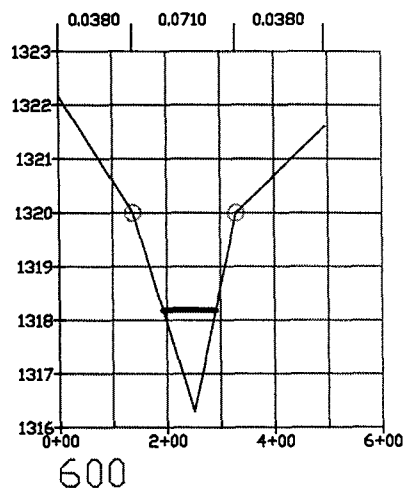
Cross-Section:	590	
Elevation:	1313.88	ft MSL
Depth:	1.79	ft
Discharge:	420.00	cfs
Energy Gradient:	0.0065	ft/ft
Froude Number:	0.3254	
Flow Regime:	Subcritical	
Flow Area:	170.08	sq ft
Average Velocity:	2.45	ft/s
Maximum Velocity:	3.39	ft/s
Composite n:	0.0562	
Hydraulic Radius:	1.03	ft
Wetted Perimeter:	165.01	ft
Wetted Top Width:	164.95	ft
Critical Slope:	0.0787	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S02–590

Entellus™

File: T2N-K6W-S02-New-Mapping.dwg; Date: 10/30/02



Normal Depth Results

Cross-Section:	600	
Elevation:	1318.19	ft MSL
Depth:	1.89	ft
Discharge:	150.00	cfs
Energy Gradient:	0.0065	ft/ft
Froude Number:	0.2076	
Flow Regime:	Subcritical	
Flow Area:	92.65	sq ft
Average Velocity:	1.63	ft/s
Maximum Velocity:	1.63	ft/s
Composite n:	0.071	
Hydraulic Radius:	0.94	ft
Wetted Perimeter:	98.09	ft
Wetted Top Width:	98.02	ft
Critical Slope:	0.149	ft/ft

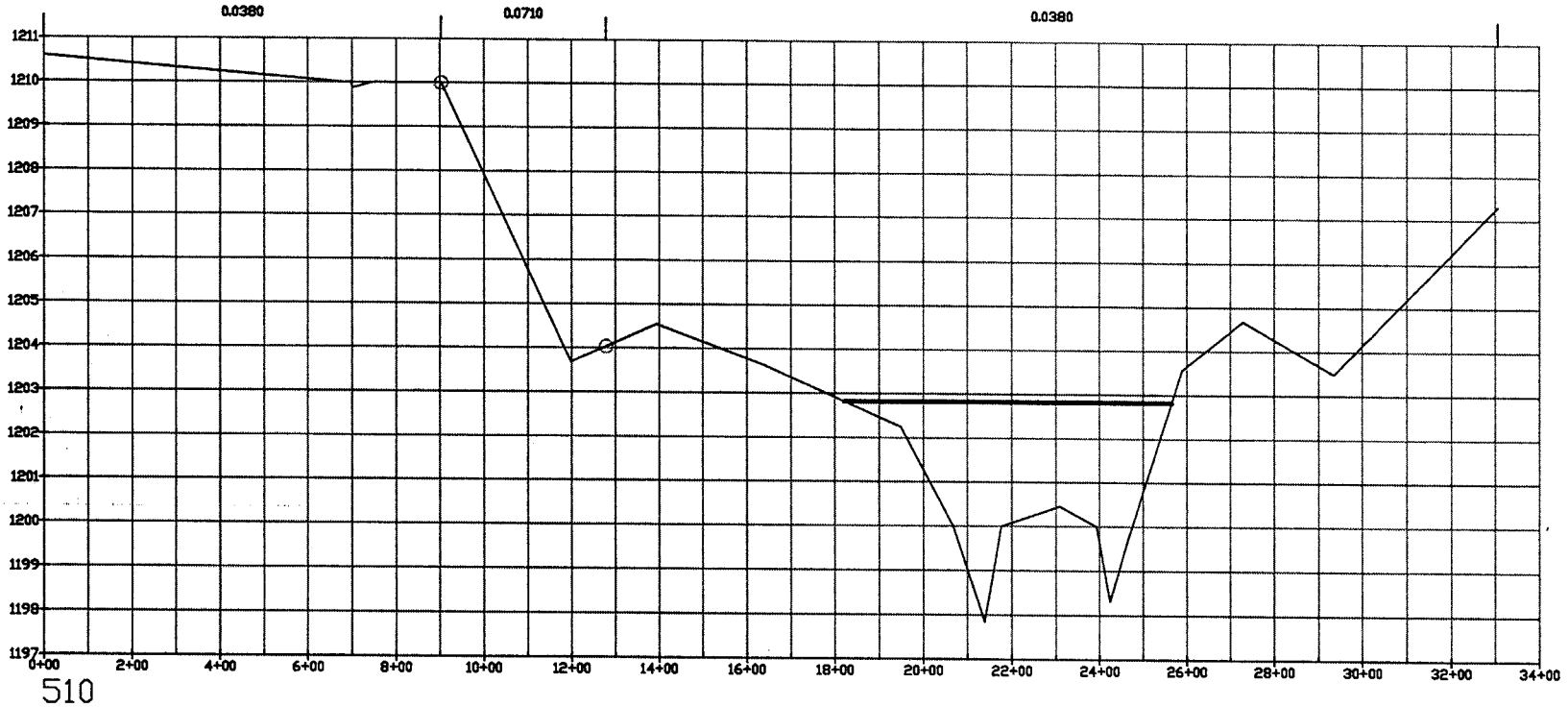
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S02–600

Entellus™

File: T2N-R6W-S02-New-Mapping.dwg Date: 10/30/02

T2N-R6W-S05E



Normal Depth Results

Cross-Section:	510	
Elevation:	1202.82	ft MSL
Depth:	4.97	ft
Discharge:	8390.00	cfs
Energy Gradient:	0.0058	ft/ft
Froude Number:	0.4015	
Flow Regime:	Subcritical	
Flow Area:	1651.75	sq ft
Average Velocity:	5.08	ft/s
Maximum Velocity:	5.08	ft/s
Composite n:	0.038	
Hydraulic Radius:	2.22	ft
Wetted Perimeter:	744.36	ft
Wetted Top Width:	744.12	ft
Critical Slope:	0.0359	ft/ft

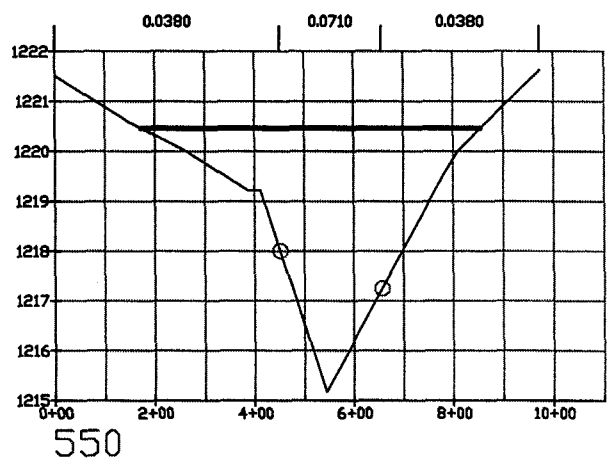
NOT USED IN DELINEATION.

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05E–510

Entellus™

File: T1N-R6W-S27-New-Mapping.dwg Date: 11/14/02



Normal Depth Results

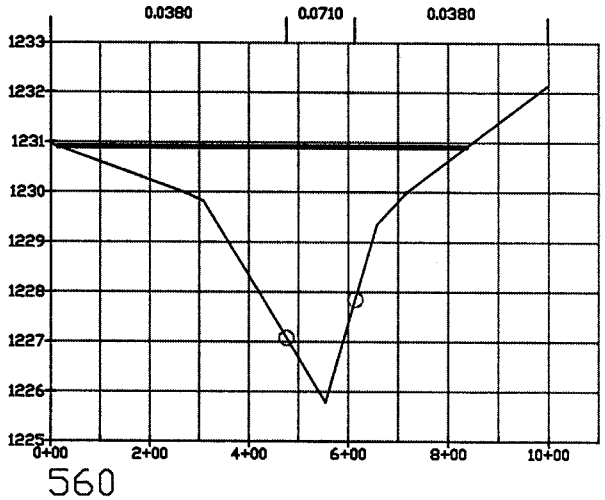
Cross-Section:	550	
Elevation:	1220.47	ft MSL
Depth:	5.30	ft
Discharge:	5140.00	cfs
Energy Gradient:	0.0058	ft/ft
Froude Number:	0.2905	
Flow Regime:	Subcritical	
Flow Area:	1355.27	sq ft
Average Velocity:	3.78	ft/s
Maximum Velocity:	4.08	ft/s
Composite n:	0.049	
Hydraulic Radius:	1.98	ft
Wetted Perimeter:	683.15	ft
Wetted Top Width:	683.04	ft
Critical Slope:	0.074	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05E–550

Entellus™

File: T2N-R6W-S05E-New-Mapping.dwg Date: 10/29/02



Normal Depth Results

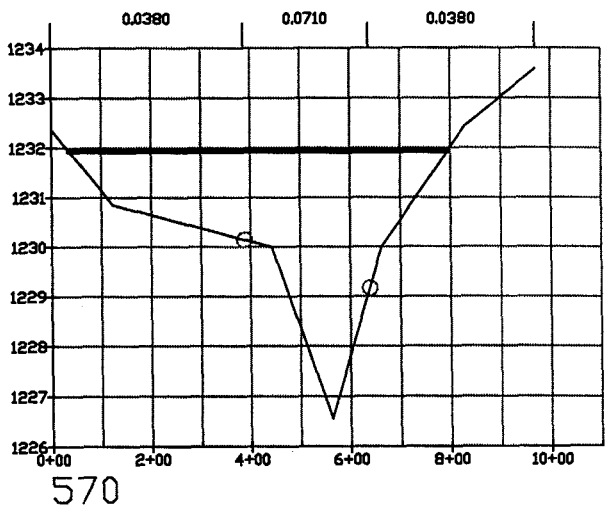
Cross-Section:	560	
Elevation:	1230.91	ft MSL
Depth:	5.13	ft
Discharge:	5120.00	cfs
Energy Gradient:	0.0058	ft/ft
Froude Number:	0.2875	
Flow Regime:	Subcritical	
Flow Area:	1386.46	sq ft
Average Velocity:	3.70	ft/s
Maximum Velocity:	4.23	ft/s
Composite n:	0.0443	
Hydraulic Radius:	1.69	ft
Wetted Perimeter:	821.58	ft
Wetted Top Width:	821.48	ft
Critical Slope:	0.0727	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05E–560

Entellus™

File: T2N-R6W-S05E-New-Mapping.dwg Date: 10/29/02



Normal Depth Results

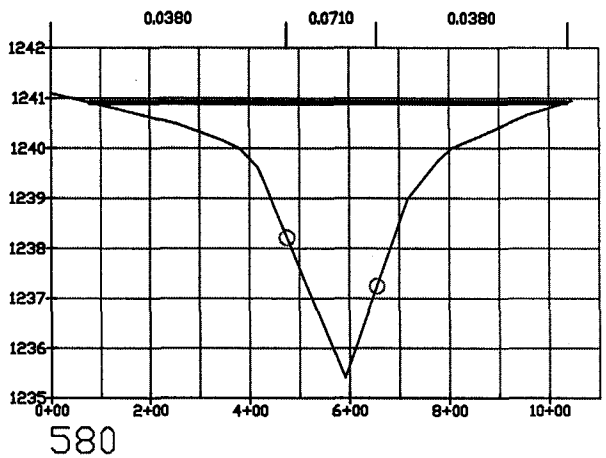
Cross-Section:	570	
Elevation:	1231.94	ft MSL
Depth:	5.38	ft
Discharge:	5120.00	cfs
Energy Gradient:	0.0058	ft/ft
Froude Number:	0.2658	
Flow Regime:	Subcritical	
Flow Area:	1464.15	sq ft
Average Velocity:	3.51	ft/s
Maximum Velocity:	3.60	ft/s
Composite n:	0.0501	
Hydraulic Radius:	1.93	ft
Wetted Perimeter:	759.96	ft
Wetted Top Width:	759.83	ft
Critical Slope:	0.0816	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05E–570

Entellus™

File: T2N-R6W-S05E-New-Mapping.dwg Date: 10/29/02



Normal Depth Results

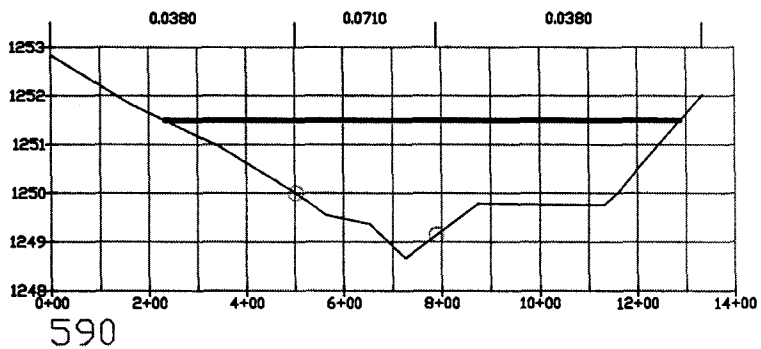
Cross-Section:	580	
Elevation:	1240.92	ft MSL
Depth:	5.50	ft
Discharge:	5120.00	cfs
Energy Gradient:	0.0058	ft/ft
Froude Number:	0.2674	
Flow Regime:	Subcritical	
Flow Area:	1439.56	sq ft
Average Velocity:	3.54	ft/s
Maximum Velocity:	4.21	ft/s
Composite n:	0.0451	
Hydraulic Radius:	1.51	ft
Wetted Perimeter:	955.77	ft
Wetted Top Width:	955.66	ft
Critical Slope:	0.0939	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05E–580

Entellus™

File: T2N-R6W-S05E-New-Mapping.dwg Date: 10/29/02



Normal Depth Results

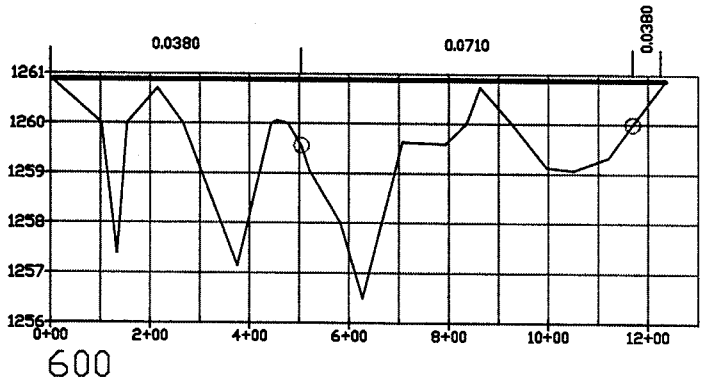
Cross-Section:	590	
Elevation:	1251.50	ft MSL
Depth:	2.83	ft
Discharge:	5120.00	cfs
Energy Gradient:	0.0058	ft/ft
Froude Number:	0.3403	
Flow Regime:	Subcritical	
Flow Area:	1577.67	sq ft
Average Velocity:	3.25	ft/s
Maximum Velocity:	3.94	ft/s
Composite n:	0.0481	
Hydraulic Radius:	1.49	ft
Wetted Perimeter:	1055.39	ft
Wetted Top Width:	1055.37	ft
Critical Slope:	0.0554	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05E–590

Entellus™

File: T2N-R6W-S05E-New-Mapping.dwg Date: 9/03/02



Normal Depth Results

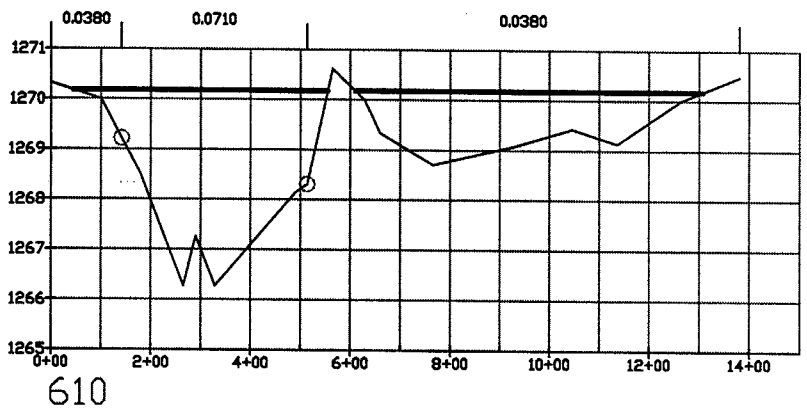
Cross-Section:	600	
Elevation:	1260.88	ft MSL
Depth:	4.38	ft
Discharge:	5120.00	cfs
Energy Gradient:	0.0058	ft/ft
Froude Number:	0.2349	
Flow Regime:	Subcritical	
Flow Area:	1835.69	sq ft
Average Velocity:	2.78	ft/s
Maximum Velocity:	3.67	ft/s
Composite n:	0.057	
Hydraulic Radius:	1.49	ft
Wetted Perimeter:	1231.90	ft
Wetted Top Width:	1231.38	ft
Critical Slope:	0.1213	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05E–600

Entellus™

File: T2N-R6W-S05E-New-Mapping.dwg Date: 11/14/02



Normal Depth Results

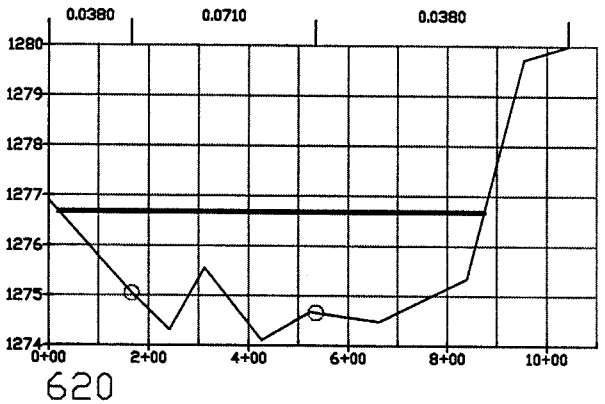
Cross-Section:	610	
Elevation:	1270.18	ft MSL
Depth:	3.91	ft
Discharge:	5120.00	cfs
Energy Gradient:	0.0058	ft/ft
Froude Number:	0.2651	
Flow Regime:	Subcritical	
Flow Area:	1721.50	sq ft
Average Velocity:	2.98	ft/s
Maximum Velocity:	3.16	ft/s
Composite n:	0.0493	
Hydraulic Radius:	1.42	ft
Wetted Perimeter:	1209.85	ft
Wetted Top Width:	1209.70	ft
Critical Slope:	0.0861	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05E–610

Entellus™

File: T2N-R6W-S05E-New-Mapping.dwg Date: 11/14/02



Normal Depth Results

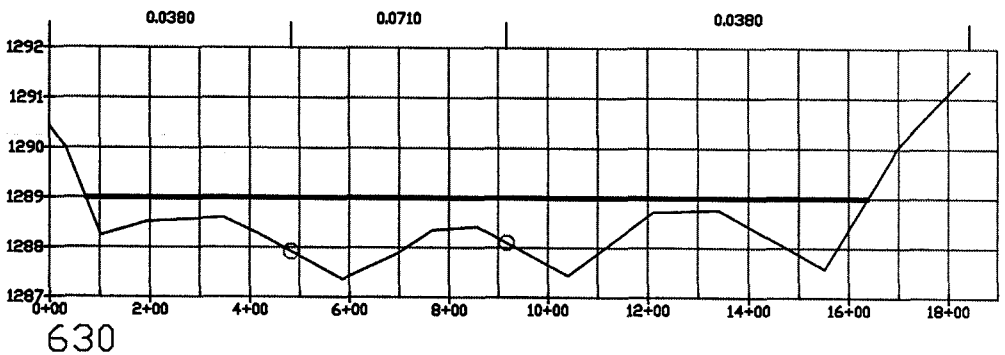
Cross-Section:	620	
Elevation:	1276.68	ft MSL
Depth:	2.57	ft
Discharge:	4850.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.3672	
Flow Regime:	Subcritical	
Flow Area:	1452.60	sq ft
Average Velocity:	3.36	ft/s
Maximum Velocity:	4.46	ft/s
Composite n:	0.0535	
Hydraulic Radius:	1.7	ft
Wetted Perimeter:	854.42	ft
Wetted Top Width:	854.36	ft
Critical Slope:	0.0525	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05E–620

Entellus™

File: T2N-R6W-S05E-New-Mapping.dwg Date: 11/14/02



Normal Depth Results

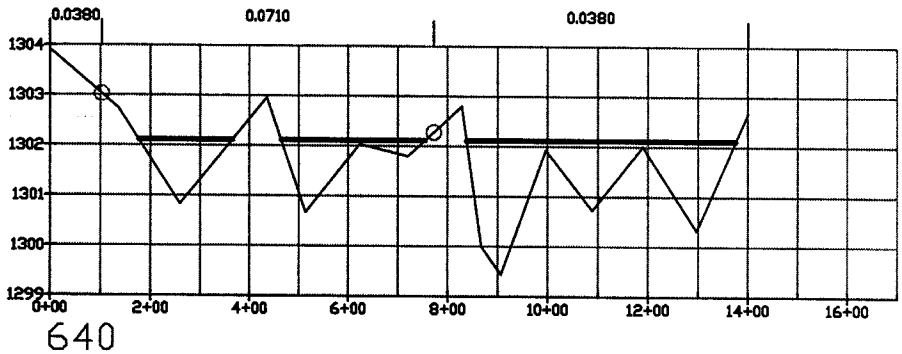
Cross-Section:	630	
Elevation:	1289.00	ft MSL
Depth:	1.64	ft
Discharge:	2800.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.3046	
Flow Regime:	Subcritical	
Flow Area:	1265.91	sq ft
Average Velocity:	2.18	ft/s
Maximum Velocity:	2.62	ft/s
Composite n:	0.0482	
Hydraulic Radius:	0.81	ft
Wetted Perimeter:	1566.03	ft
Wetted Top Width:	1565.99	ft
Critical Slope:	0.0733	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05E–630

Entellus™

File: T2N-R6W-S05E-New-Mapping.dwg Date: 10/29/02



Normal Depth Results

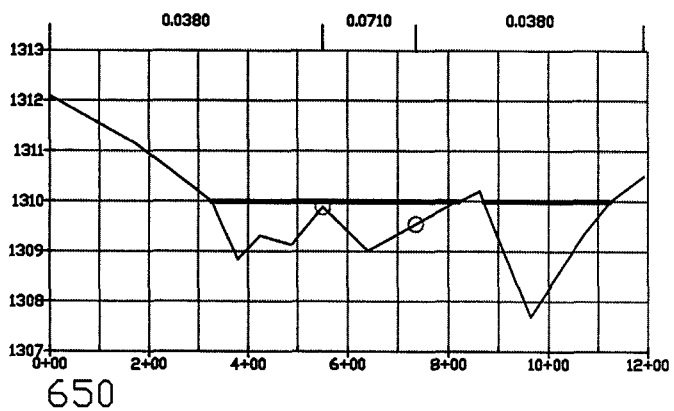
Cross-Section:	640	
Elevation:	1302.12	ft MSL
Depth:	2.68	ft
Discharge:	2110.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.2701	
Flow Regime:	Subcritical	
Flow Area:	841.61	sq ft
Average Velocity:	2.52	ft/s
Maximum Velocity:	3.17	ft/s
Composite n:	0.0548	
Hydraulic Radius:	0.83	ft
Wetted Perimeter:	1018.49	ft
Wetted Top Width:	1018.28	ft
Critical Slope:	0.1503	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05E–640

Entellus™

File: T2N-R6W-S05E-New-Mapping.dwg Date: 10/29/02



Normal Depth Results

Cross-Section:	650	
Elevation:	1309.99	ft MSL
Depth:	2.30	ft
Discharge:	1350.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.275	
Flow Regime:	Subcritical	
Flow Area:	569.97	sq ft
Average Velocity:	2.35	ft/s
Maximum Velocity:	2.81	ft/s
Composite n:	0.0472	
Hydraulic Radius:	0.76	ft
Wetted Perimeter:	748.19	ft
Wetted Top Width:	748.12	ft
Critical Slope:	0.107	ft/ft

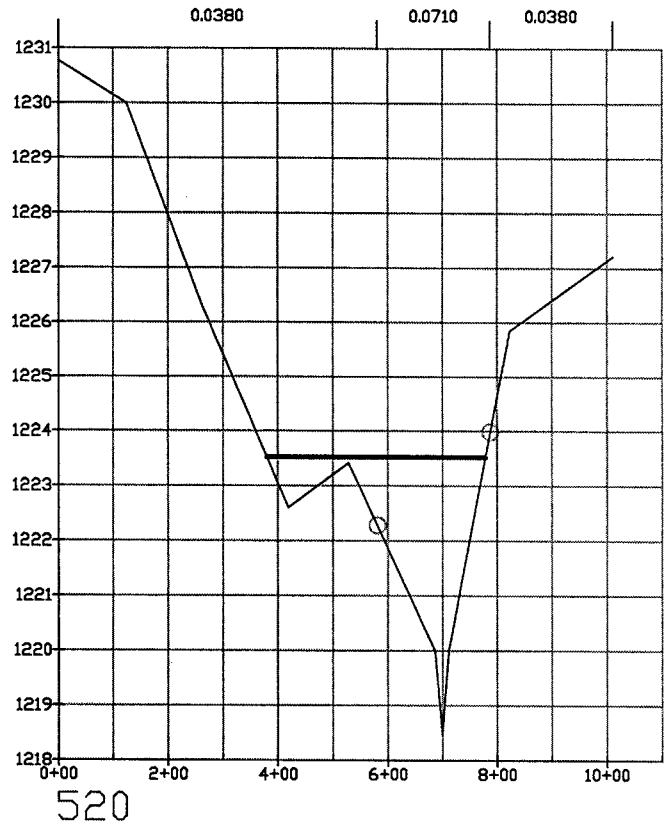
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05E–650

Entellus™

File: T2N-R6W-S05E-New-Mapping.dwg Date: 10/29/02

T2N-R6W-S05N



Normal Depth Results

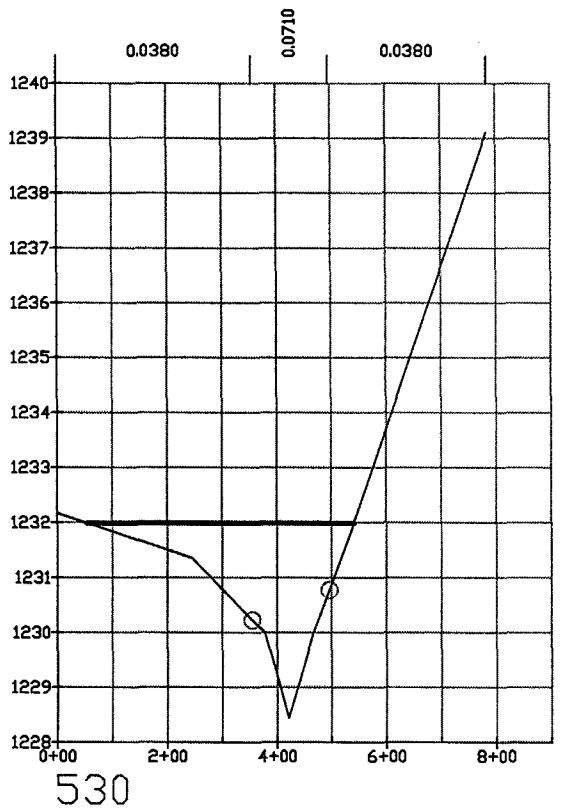
Cross-Section:	520	
Elevation:	1223.52	ft MSL
Depth:	5.06	ft
Discharge:	1670.00	cfs
Energy Gradient:	0.0064	ft/ft
Froude Number:	0.2236	
Flow Regime:	Subcritical	
Flow Area:	585.28	sq ft
Average Velocity:	2.84	ft/s
Maximum Velocity:	3.02	ft/s
Composite n:	0.0556	
Hydraulic Radius:	1.47	ft
Wetted Perimeter:	398.71	ft
Wetted Top Width:	398.38	ft
Critical Slope:	0.1359	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05N–520

Entellus™

File: T2N-R6W-S05N-New-Mapping.dwg Date: 10/18/02



Normal Depth Results

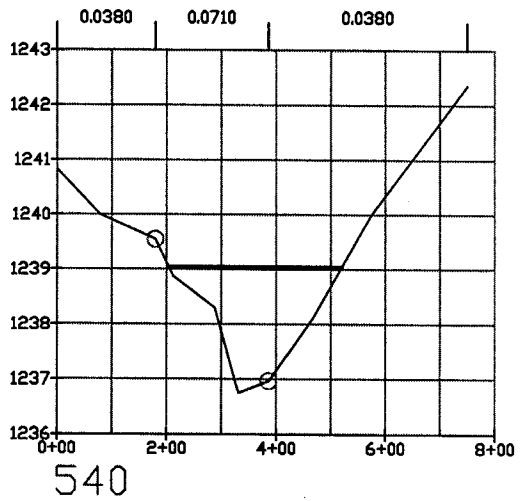
Cross-Section:	530	
Elevation:	1231.99	ft MSL
Depth:	3.55	ft
Discharge:	1520.00	cfs
Energy Gradient:	0.0064	ft/ft
Froude Number:	0.2558	
Flow Regime:	Subcritical	
Flow Area:	556.01	sq ft
Average Velocity:	2.73	ft/s
Maximum Velocity:	2.99	ft/s
Composite n:	0.0486	
Hydraulic Radius:	1.14	ft
Wetted Perimeter:	487.19	ft
Wetted Top Width:	487.10	ft
Critical Slope:	0.1022	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05N–530

Entellus™

File: T2N-R6W-S05N-New-Mapping.dwg Date: 10/18/02



Normal Depth Results

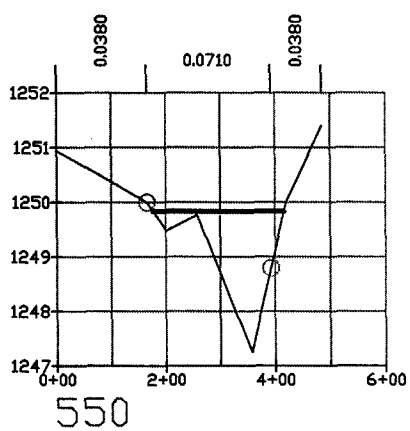
Cross-Section:	540	
Elevation:	1239.03	ft MSL
Depth:	2.28	ft
Discharge:	1180.00	cfs
Energy Gradient:	0.0064	ft/ft
Froude Number:	0.3796	
Flow Regime:	Subcritical	
Flow Area:	362.88	sq ft
Average Velocity:	3.24	ft/s
Maximum Velocity:	3.93	ft/s
Composite n:	0.0525	
Hydraulic Radius:	1.15	ft
Wetted Perimeter:	314.85	ft
Wetted Top Width:	314.80	ft
Critical Slope:	0.0755	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05N–540

Entellus™

File: T2N-R6W-S05N-New-Mapping.dwg Date: 10/18/02



Normal Depth Results

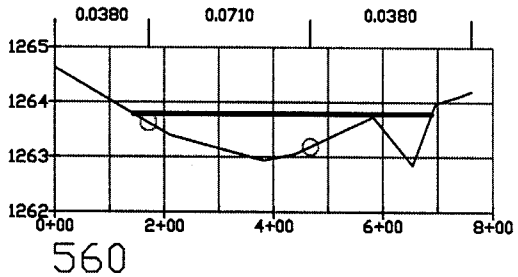
Cross-Section:	550	
Elevation:	1249.84	ft MSL
Depth:	2.59	ft
Discharge:	450.00	cfs
Energy Gradient:	0.0093	ft/ft
Froude Number:	0.2196	
Flow Regime:	Subcritical	
Flow Area:	224.48	sq ft
Average Velocity:	2.02	ft/s
Maximum Velocity:	2.44	ft/s
Composite n:	0.0681	
Hydraulic Radius:	0.94	ft
Wetted Perimeter:	239.60	ft
Wetted Top Width:	239.50	ft
Critical Slope:	0.1899	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05N–550

Entellus™

File: T2N-R6W-S05N-New-Mapping.dwg Date: 10/18/02



Normal Depth Results

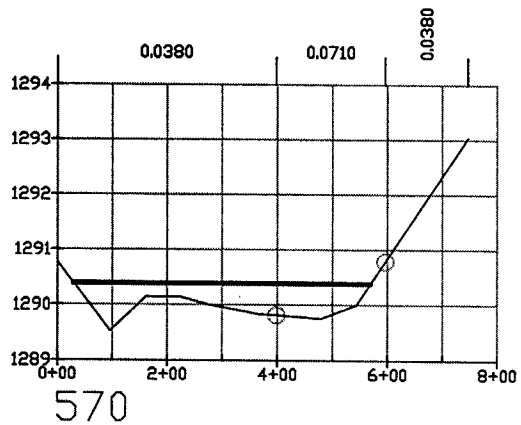
Cross-Section:	560	
Elevation:	1263.79	ft MSL
Depth:	0.94	ft
Discharge:	450.00	cfs
Energy Gradient:	0.0093	ft/ft
Froude Number:	0.2978	
Flow Regime:	Subcritical	
Flow Area:	274.34	sq ft
Average Velocity:	1.66	ft/s
Maximum Velocity:	2.07	ft/s
Composite n:	0.0571	
Hydraulic Radius:	0.5	ft
Wetted Perimeter:	545.85	ft
Wetted Top Width:	545.83	ft
Critical Slope:	0.1116	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05N–560

Entellus™

File: T2N-R6W-S05N-New-Mapping.dwg Date: 10/18/02



Normal Depth Results

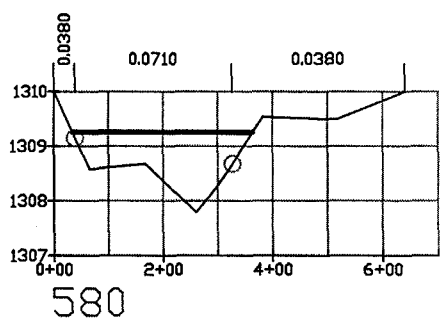
Cross-Section:	570	
Elevation:	1290.39	ft MSL
Depth:	0.86	ft
Discharge:	450.00	cfs
Energy Gradient:	0.0093	ft/ft
Froude Number:	0.3504	
Flow Regime:	Subcritical	
Flow Area:	243.97	sq ft
Average Velocity:	1.84	ft/s
Maximum Velocity:	2.15	ft/s
Composite n:	0.0496	
Hydraulic Radius:	0.45	ft
Wetted Perimeter:	539.68	ft
Wetted Top Width:	539.67	ft
Critical Slope:	0.0885	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05N–570

Entellus™

File: T2N-R6W-S05N-New-Mapping.dwg Date: 10/18/02



Normal Depth Results

Cross-Section:	580	
Elevation:	1309.26	ft MSL
Depth:	1.47	ft
Discharge:	450.00	cfs
Energy Gradient:	0.0093	ft/ft
Froude Number:	0.2619	
Flow Regime:	Subcritical	
Flow Area:	250.03	sq ft
Average Velocity:	1.78	ft/s
Maximum Velocity:	1.79	ft/s
Composite n:	0.0672	
Hydraulic Radius:	0.76	ft
Wetted Perimeter:	330.25	ft
Wetted Top Width:	330.22	ft
Critical Slope:	0.1393	ft/ft

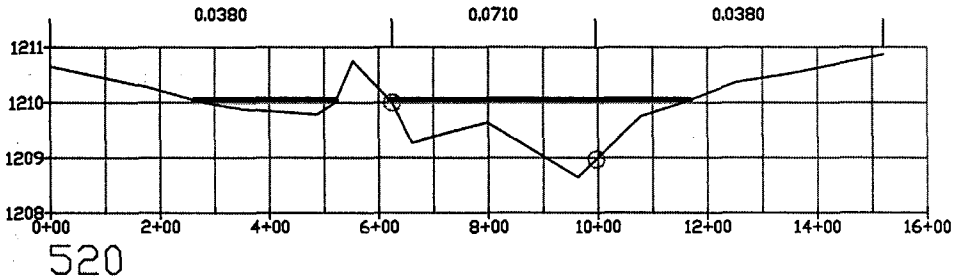
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05N–580

Entellus™

File: T2N-R6W-S05N-New-Mapping.dwg Date: 10/18/02

T2N-R6W-S05S



Normal Depth Results

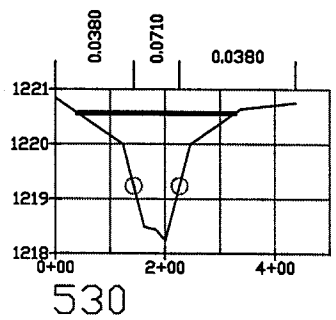
Cross-Section:	520	
Elevation:	1210.05	ft MSL
Depth:	1.40	ft
Discharge:	670.00	cfs
Energy Gradient:	0.0087	ft/ft
Froude Number:	0.2466	
Flow Regime:	Subcritical	
Flow Area:	404.06	sq ft
Average Velocity:	1.66	ft/s
Maximum Velocity:	2.02	ft/s
Composite n:	0.0543	
Hydraulic Radius:	0.5	ft
Wetted Perimeter:	810.88	ft
Wetted Top Width:	810.86	ft
Critical Slope:	0.1524	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05S–520

Entellus™

File: T2N-R6W-S05S-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

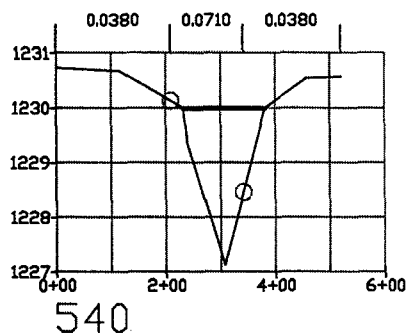
Cross-Section:	530	
Elevation:	1220.57	ft MSL
Depth:	2.33	ft
Discharge:	670.00	cfs
Energy Gradient:	0.0087	ft/ft
Froude Number:	0.3132	
Flow Regime:	Subcritical	
Flow Area:	247.14	sq ft
Average Velocity:	2.71	ft/s
Maximum Velocity:	3.06	ft/s
Composite n:	0.0487	
Hydraulic Radius:	0.86	ft
Wetted Perimeter:	286.74	ft
Wetted Top Width:	286.67	ft
Critical Slope:	0.0978	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05S–530

Entellus™

File: T2N-R6W-S05S-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

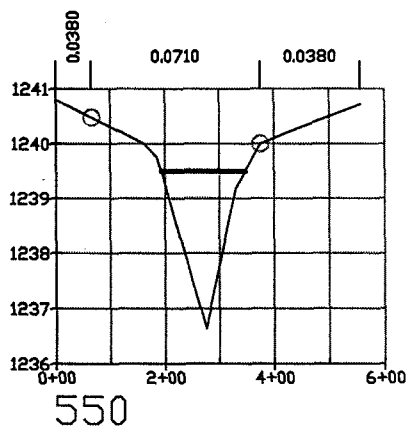
Cross-Section:	540	
Elevation:	1229.99	ft MSL
Depth:	2.87	ft
Discharge:	670.00	cfs
Energy Gradient:	0.0087	ft/ft
Froude Number:	0.3046	
Flow Regime:	Subcritical	
Flow Area:	228.70	sq ft
Average Velocity:	2.93	ft/s
Maximum Velocity:	3.06	ft/s
Composite n:	0.0632	
Hydraulic Radius:	1.53	ft
Wetted Perimeter:	149.07	ft
Wetted Top Width:	148.95	ft
Critical Slope:	0.094	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05S–540

Entellus™

File: T2N-R6W-S05S-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

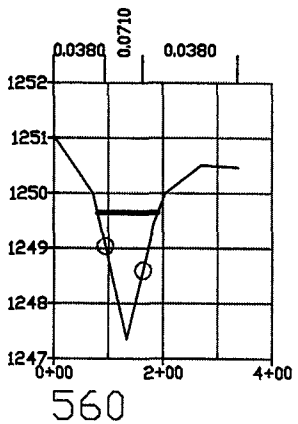
Cross-Section:	550	
Elevation:	1239.50	ft MSL
Depth:	2.86	ft
Discharge:	490.00	cfs
Energy Gradient:	0.0087	ft/ft
Froude Number:	0.2469	
Flow Regime:	Subcritical	
Flow Area:	206.91	sq ft
Average Velocity:	2.38	ft/s
Maximum Velocity:	2.38	ft/s
Composite n:	0.071	
Hydraulic Radius:	1.34	ft
Wetted Perimeter:	154.45	ft
Wetted Top Width:	154.34	ft
Critical Slope:	0.1413	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05S–550

Entellus™

File: T2N-R6W-S05S-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

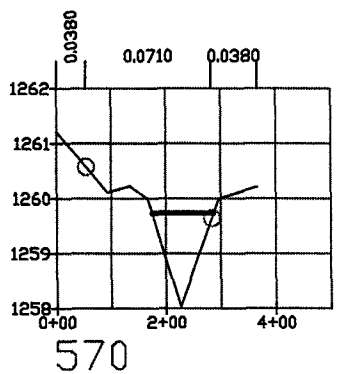
Cross-Section:	560	
Elevation:	1249.65	ft MSL
Depth:	2.30	ft
Discharge:	320.00	cfs
Energy Gradient:	0.0087	ft/ft
Froude Number:	0.2975	
Flow Regime:	Subcritical	
Flow Area:	124.95	sq ft
Average Velocity:	2.55	ft/s
Maximum Velocity:	2.62	ft/s
Composite n:	0.0596	
Hydraulic Radius:	1.13	ft
Wetted Perimeter:	110.99	ft
Wetted Top Width:	110.90	ft
Critical Slope:	0.1014	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05S–560

Entellus™

File: T2N-R6W-S05S-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

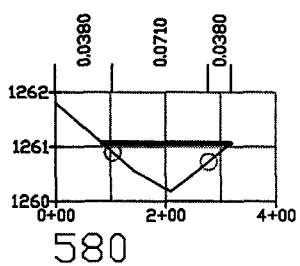
Cross-Section:	570	
Elevation:	1259.74	ft MSL
Depth:	1.70	ft
Discharge:	170.00	cfs
Energy Gradient:	0.0087	ft/ft
Froude Number:	0.2405	
Flow Regime:	Subcritical	
Flow Area:	95.60	sq ft
Average Velocity:	1.79	ft/s
Maximum Velocity:	1.79	ft/s
Composite n:	0.0701	
Hydraulic Radius:	0.85	ft
Wetted Perimeter:	112.60	ft
Wetted Top Width:	112.55	ft
Critical Slope:	0.1508	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05S–570

Entellus™

File: T2N-R6W-S05S-New-Mapping.dwg Date: 10/30/02



Normal Depth Results

Cross-Section:	580	
Elevation:	1261.07	ft MSL
Depth:	0.89	ft
Discharge:	150.00	cfs
Energy Gradient:	0.0087	ft/ft
Froude Number:	0.2539	
Flow Regime:	Subcritical	
Flow Area:	110.48	sq ft
Average Velocity:	1.34	ft/s
Maximum Velocity:	1.37	ft/s
Composite n:	0.0634	
Hydraulic Radius:	0.47	ft
Wetted Perimeter:	233.79	ft
Wetted Top Width:	233.78	ft
Critical Slope:	0.1409	ft/ft

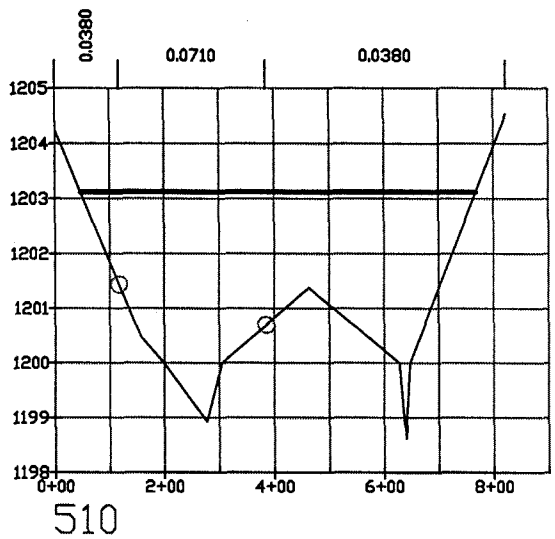
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05S–580

Entellus™

File: T2N-R6W-S05S-New-Mapping.dwg Date: 10/10/02

T2N-R6W-S05W



Normal Depth Results

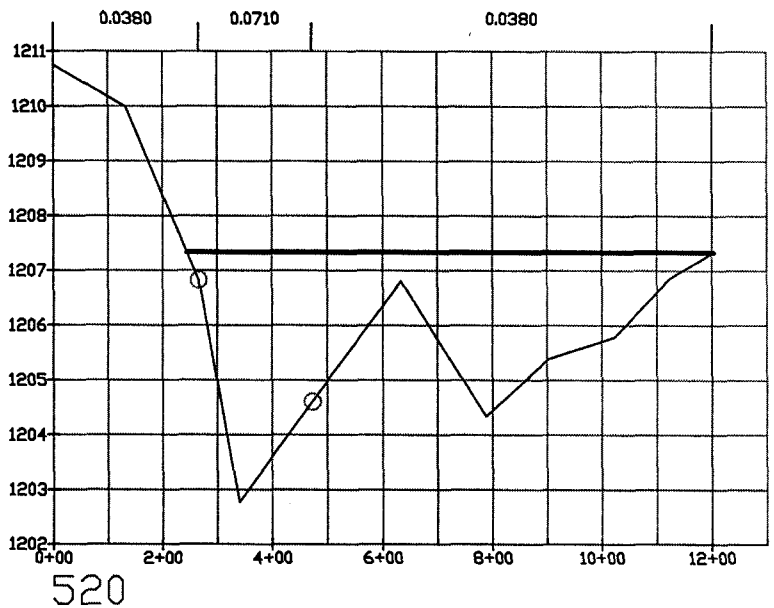
Cross-Section:	510	
Elevation:	1203.12	ft MSL
Depth:	4.50	ft
Discharge:	8320.00	cfs
Energy Gradient:	0.0082	ft/ft
Froude Number:	0.4063	
Flow Regime:	Subcritical	
Flow Area:	1701.54	sq ft
Average Velocity:	4.90	ft/s
Maximum Velocity:	5.92	ft/s
Composite n:	0.0515	
Hydraulic Radius:	2.36	ft
Wetted Perimeter:	721.59	ft
Wetted Top Width:	721.27	ft
Critical Slope:	0.0551	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05W–510

Entellus™

File: T2N-R6W-S05W-New-Mapping.dwg Date: 11/14/02



Normal Depth Results

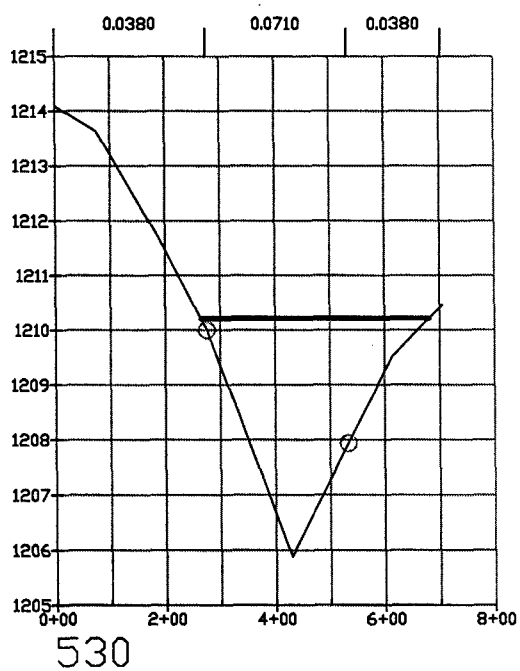
Cross-Section:	520	
Elevation:	1207.34	ft MSL
Depth:	4.57	ft
Discharge:	8320.00	cfs
Energy Gradient:	0.0082	ft/ft
Froude Number:	0.3752	
Flow Regime:	Subcritical	
Flow Area:	1828.23	sq ft
Average Velocity:	4.56	ft/s
Maximum Velocity:	4.81	ft/s
Composite n:	0.046	
Hydraulic Radius:	1.91	ft
Wetted Perimeter:	958.76	ft
Wetted Top Width:	958.58	ft
Critical Slope:	0.0594	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05W–520

Entellus™

File: T2N-R6W-S05W-New-Mapping.dwg Date: 10/28/02



Normal Depth Results

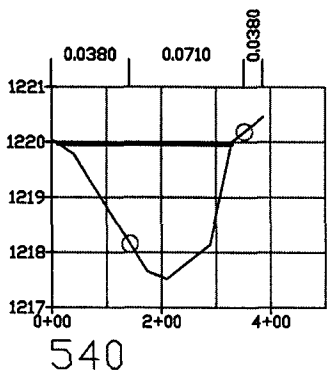
Cross-Section:	530	
Elevation:	1210.22	ft MSL
Depth:	4.33	ft
Discharge:	3040.00	cfs
Energy Gradient:	0.0082	ft/ft
Froude Number:	0.3078	
Flow Regime:	Subcritical	
Flow Area:	837.16	sq ft
Average Velocity:	3.63	ft/s
Maximum Velocity:	3.67	ft/s
Composite n:	0.0595	
Hydraulic Radius:	2.01	ft
Wetted Perimeter:	416.53	ft
Wetted Top Width:	416.43	ft
Critical Slope:	0.0876	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05W–530

Entellus™

File: T2N-R6W-S05W-New-Mapping.dwg Date: 10/28/02



Normal Depth Results

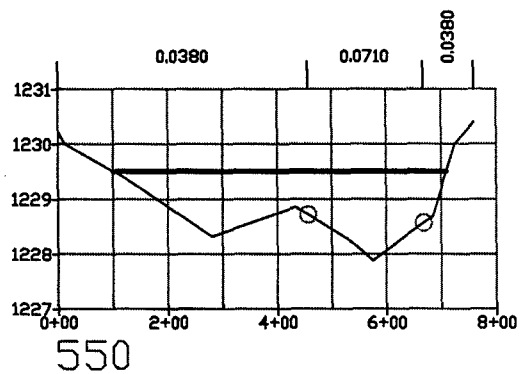
Cross-Section:	540	
Elevation:	1219.97	ft MSL
Depth:	2.45	ft
Discharge:	1370.00	cfs
Energy Gradient:	0.0082	ft/ft
Froude Number:	0.335	
Flow Regime:	Subcritical	
Flow Area:	460.68	sq ft
Average Velocity:	2.96	ft/s
Maximum Velocity:	3.07	ft/s
Composite n:	0.0586	
Hydraulic Radius:	1.46	ft
Wetted Perimeter:	316.54	ft
Wetted Top Width:	316.48	ft
Critical Slope:	0.0739	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05W–540

Entellus™

File: T2N-R6W-S05W-New-Mapping.dwg Date: 10/28/02



Normal Depth Results

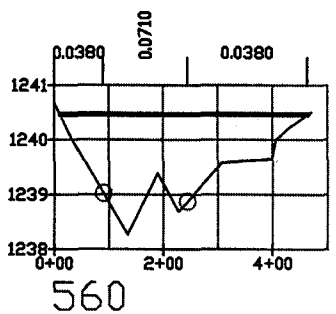
Cross-Section:	550	
Elevation:	1229.51	ft MSL
Depth:	1.63	ft
Discharge:	1370.00	cfs
Energy Gradient:	0.0082	ft/ft
Froude Number:	0.3485	
Flow Regime:	Subcritical	
Flow Area:	543.46	sq ft
Average Velocity:	2.53	ft/s
Maximum Velocity:	2.89	ft/s
Composite n:	0.0506	
Hydraulic Radius:	0.89	ft
Wetted Perimeter:	608.87	ft
Wetted Top Width:	608.84	ft
Critical Slope:	0.0704	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05W–550

Entellus™

File: T2N-R6W-S05W-New-Mapping.dwg Date: 10/28/02



Normal Depth Results

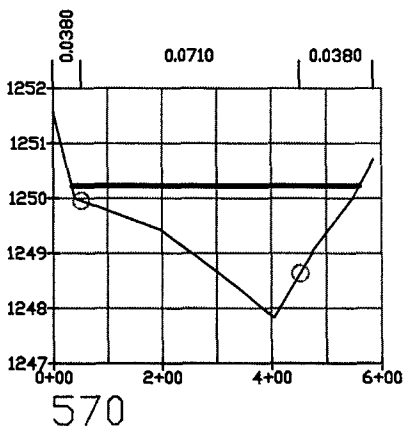
Cross-Section:	560	
Elevation:	1240.46	ft MSL
Depth:	2.19	ft
Discharge:	1370.00	cfs
Energy Gradient:	0.0082	ft/ft
Froude Number:	0.3358	
Flow Regime:	Subcritical	
Flow Area:	485.42	sq ft
Average Velocity:	2.81	ft/s
Maximum Velocity:	3.02	ft/s
Composite n:	0.0504	
Hydraulic Radius:	1.07	ft
Wetted Perimeter:	453.94	ft
Wetted Top Width:	453.89	ft
Critical Slope:	0.0739	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05W–560

Entellus™

File: T2N-R6W-S05W-New-Mapping.dwg Date: 10/28/02



Normal Depth Results

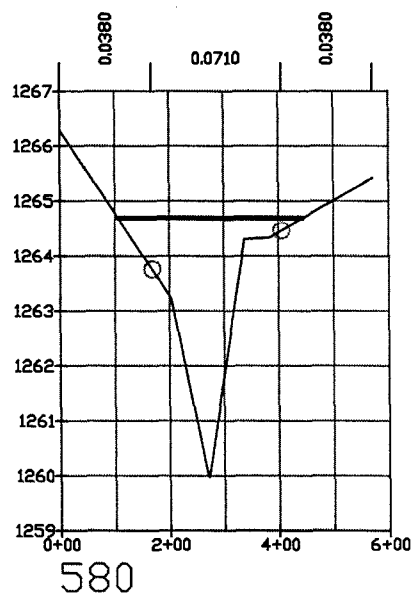
Cross-Section:	570	
Elevation:	1250.23	ft MSL
Depth:	2.40	ft
Discharge:	1370.00	cfs
Energy Gradient:	0.0082	ft/ft
Froude Number:	0.2653	
Flow Regime:	Subcritical	
Flow Area:	588.01	sq ft
Average Velocity:	2.31	ft/s
Maximum Velocity:	3.02	ft/s
Composite n:	0.0639	
Hydraulic Radius:	1.12	ft
Wetted Perimeter:	525.90	ft
Wetted Top Width:	525.87	ft
Critical Slope:	0.1224	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05W–570

Entellus™

File: T2N-R6W-S05W-New-Mapping.dwg Date: 10/28/02



Normal Depth Results

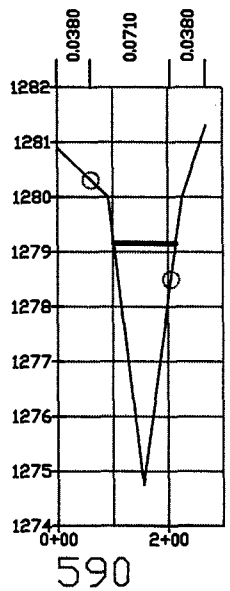
Cross-Section:	580	
Elevation:	1264.69	ft MSL
Depth:	4.71	ft
Discharge:	1370.00	cfs
Energy Gradient:	0.0082	ft/ft
Froude Number:	0.2315	
Flow Regime:	Subcritical	
Flow Area:	480.65	sq ft
Average Velocity:	2.83	ft/s
Maximum Velocity:	2.90	ft/s
Composite n:	0.0621	
Hydraulic Radius:	1.42	ft
Wetted Perimeter:	337.86	ft
Wetted Top Width:	337.62	ft
Critical Slope:	0.1649	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05W–580

Entellus™

File: T2N-R6W-S05W-New-Mapping.dwg Date: 10/28/02



Normal Depth Results

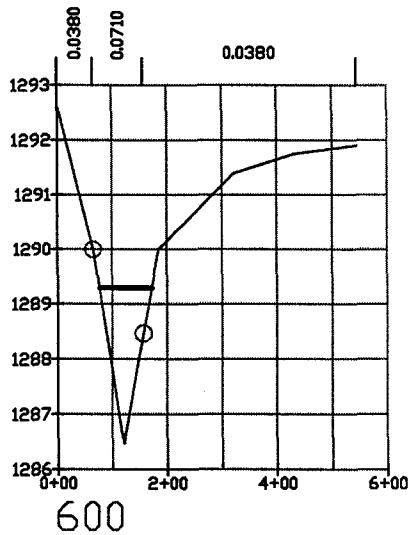
Cross-Section:	590	
Elevation:	1279.16	ft MSL
Depth:	4.41	ft
Discharge:	830.00	cfs
Energy Gradient:	0.0082	ft/ft
Froude Number:	0.2799	
Flow Regime:	Subcritical	
Flow Area:	248.88	sq ft
Average Velocity:	3.35	ft/s
Maximum Velocity:	3.37	ft/s
Composite n:	0.0687	
Hydraulic Radius:	2.2	ft
Wetted Perimeter:	113.20	ft
Wetted Top Width:	112.85	ft
Critical Slope:	0.1055	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05W–590

Entellus™

File: T2N-R6W-S05W-New-Mapping.dwg Date: 10/28/02



Normal Depth Results

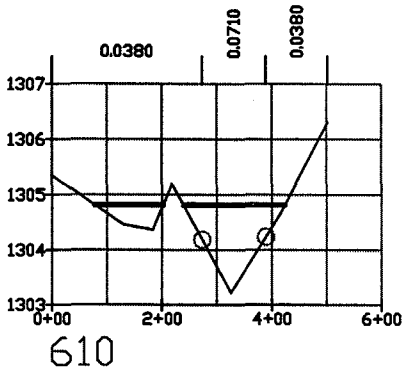
Cross-Section:	600	
Elevation:	1289.29	ft MSL
Depth:	2.82	ft
Discharge:	410.00	cfs
Energy Gradient:	0.0114	ft/ft
Froude Number:	0.3189	
Flow Regime:	Subcritical	
Flow Area:	134.89	sq ft
Average Velocity:	3.02	ft/s
Maximum Velocity:	3.06	ft/s
Composite n:	0.0663	
Hydraulic Radius:	1.41	ft
Wetted Perimeter:	95.79	ft
Wetted Top Width:	95.62	ft
Critical Slope:	0.1142	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05W–600

Entellus™

File: T2N-R6W-S05W-New-Mapping.dwg Date: 10/28/02



Normal Depth Results

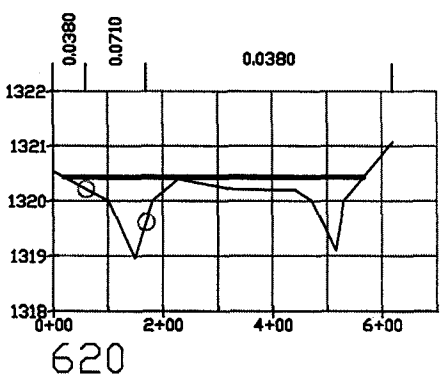
Cross-Section:	610	
Elevation:	1304.82	ft MSL
Depth:	1.60	ft
Discharge:	410.00	cfs
Energy Gradient:	0.0114	ft/ft
Froude Number:	0.3095	
Flow Regime:	Subcritical	
Flow Area:	184.69	sq ft
Average Velocity:	2.22	ft/s
Maximum Velocity:	2.39	ft/s
Composite n:	0.0516	
Hydraulic Radius:	0.6	ft
Wetted Perimeter:	309.95	ft
Wetted Top Width:	309.92	ft
Critical Slope:	0.1233	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05W–610

Entellus™

File: T2N-R6W-S05W-New-Mapping.dwg Date: 10/28/02



Normal Depth Results

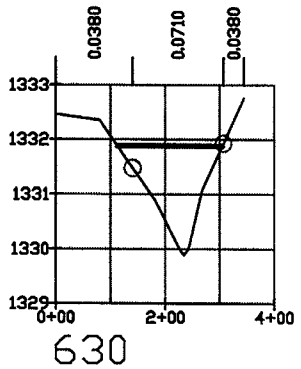
Cross-Section:	620	
Elevation:	1320.43	ft MSL
Depth:	1.47	ft
Discharge:	410.00	cfs
Energy Gradient:	0.0114	ft/ft
Froude Number:	0.2793	
Flow Regime:	Subcritical	
Flow Area:	213.09	sq ft
Average Velocity:	1.90	ft/s
Maximum Velocity:	1.95	ft/s
Composite n:	0.0454	
Hydraulic Radius:	0.39	ft
Wetted Perimeter:	546.41	ft
Wetted Top Width:	546.34	ft
Critical Slope:	0.1552	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05W–620

Entellus™

File: T2N-R6W-S05W-New-Mapping.dwg Date: 10/28/02



Normal Depth Results

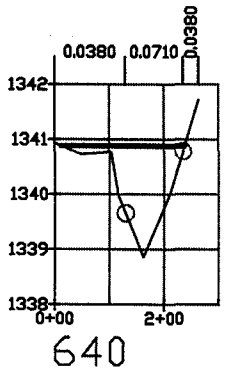
Cross-Section:	630	
Elevation:	1331.88	ft MSL
Depth:	1.99	ft
Discharge:	410.00	cfs
Energy Gradient:	0.0114	ft/ft
Froude Number:	0.2859	
Flow Regime:	Subcritical	
Flow Area:	179.17	sq ft
Average Velocity:	2.29	ft/s
Maximum Velocity:	2.32	ft/s
Composite n:	0.0667	
Hydraulic Radius:	0.93	ft
Wetted Perimeter:	192.37	ft
Wetted Top Width:	192.32	ft
Critical Slope:	0.1414	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05W–630

Entellus™

File: T2N-R6W-S05W-New-Mapping.dwg Date: 10/28/02



Normal Depth Results

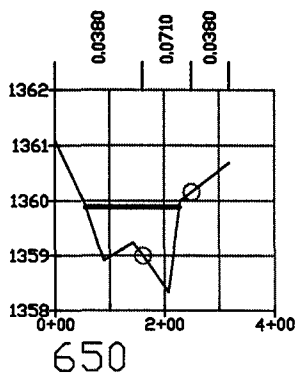
Cross-Section:	640	
Elevation:	1340.88	ft MSL
Depth:	2.02	ft
Discharge:	410.00	cfs
Energy Gradient:	0.0114	ft/ft
Froude Number:	0.3051	
Flow Regime:	Subcritical	
Flow Area:	166.54	sq ft
Average Velocity:	2.47	ft/s
Maximum Velocity:	2.64	ft/s
Composite n:	0.0547	
Hydraulic Radius:	0.74	ft
Wetted Perimeter:	225.63	ft
Wetted Top Width:	225.57	ft
Critical Slope:	0.1317	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05W–640

Entellus™

File: T2N-R6W-S05W-New-Mapping.dwg Date: 10/28/02



Normal Depth Results

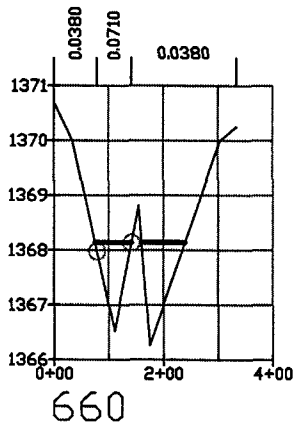
Cross-Section:	650	
Elevation:	1359.89	ft MSL
Depth:	1.55	ft
Discharge:	410.00	cfs
Energy Gradient:	0.0114	ft/ft
Froude Number:	0.3952	
Flow Regime:	Subcritical	
Flow Area:	146.79	sq ft
Average Velocity:	2.84	ft/s
Maximum Velocity:	3.31	ft/s
Composite n:	0.0522	
Hydraulic Radius:	0.85	ft
Wetted Perimeter:	172.03	ft
Wetted Top Width:	171.95	ft
Critical Slope:	0.0758	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05W–650

Entellus™

File: T2N-R6W-S05W-New-Mapping.dwg Date: 10/28/02



Normal Depth Results

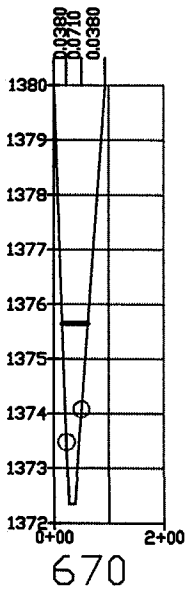
Cross-Section:	660	
Elevation:	1368.15	ft MSL
Depth:	1.88	ft
Discharge:	410.00	cfs
Energy Gradient:	0.0114	ft/ft
Froude Number:	0.409	
Flow Regime:	Subcritical	
Flow Area:	128.97	sq ft
Average Velocity:	3.17	ft/s
Maximum Velocity:	4.00	ft/s
Composite n:	0.0534	
Hydraulic Radius:	0.88	ft
Wetted Perimeter:	146.89	ft
Wetted Top Width:	146.66	ft
Critical Slope:	0.0923	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05W–660

Entellus™

File: T2N-R6W-S05W-New-Mapping.dwg Date: 10/28/02



Normal Depth Results

Cross-Section:	670	
Elevation:	1375.65	ft MSL
Depth:	3.30	ft
Discharge:	410.00	cfs
Energy Gradient:	0.0114	ft/ft
Froude Number:	0.423	
Flow Regime:	Subcritical	
Flow Area:	94.04	sq ft
Average Velocity:	4.35	ft/s
Maximum Velocity:	4.44	ft/s
Composite n:	0.0585	
Hydraulic Radius:	2	ft
Wetted Perimeter:	46.92	ft
Wetted Top Width:	46.23	ft
Critical Slope:	0.0648	ft/ft

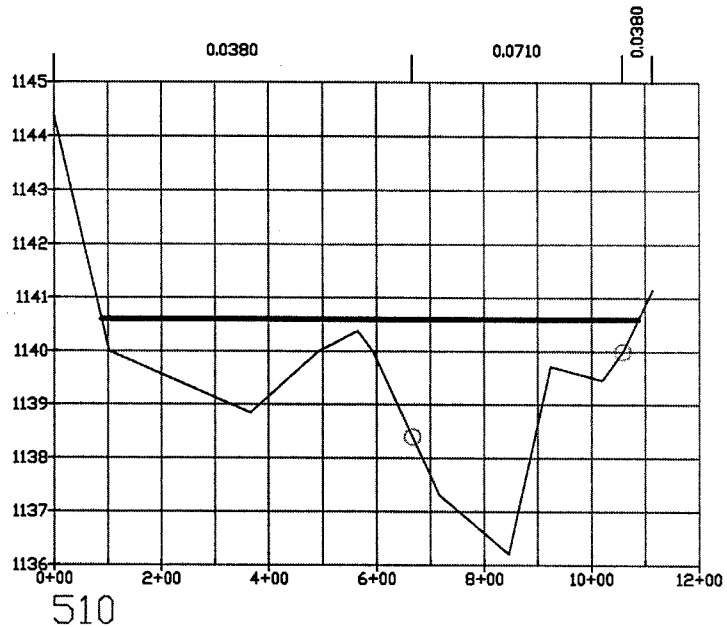
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S05W–670

Entellus™

File: T2N-R6W-S05W-New-Mapping.dwg Date: 10/28/02

T2N-R6W-S22



Normal Depth Results

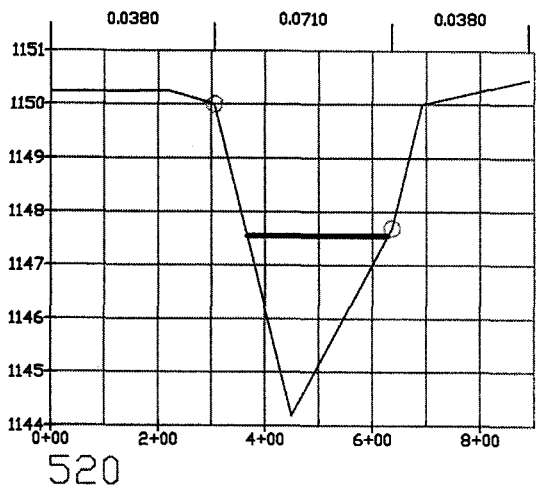
Cross-Section:	510	
Elevation:	1140.60	ft MSL
Depth:	4.39	ft
Discharge:	4810.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.255	
Flow Regime:	Subcritical	
Flow Area:	1586.60	sq ft
Average Velocity:	3.03	ft/s
Maximum Velocity:	3.14	ft/s
Composite n:	0.0521	
Hydraulic Radius:	1.59	ft
Wetted Perimeter:	999.36	ft
Wetted Top Width:	999.21	ft
Critical Slope:	0.0935	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S22–510

Entellus™

File: T2N-K6W-S22-New-Mapping.dwg, Date: 10/18/02



Normal Depth Results

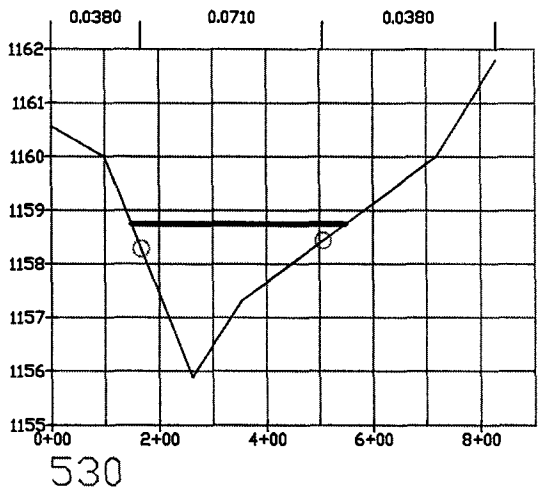
Cross-Section:	520	
Elevation:	1147.55	ft MSL
Depth:	3.36	ft
Discharge:	1020.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.2224	
Flow Regime:	Subcritical	
Flow Area:	440.92	sq ft
Average Velocity:	2.30	ft/s
Maximum Velocity:	2.30	ft/s
Composite n:	0.071	
Hydraulic Radius:	1.68	ft
Wetted Perimeter:	262.45	ft
Wetted Top Width:	262.35	ft
Critical Slope:	0.1229	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S22–520

Entellus™

File: T2N-R6W-S22-New-Mapping.dwg Date: 10/18/02



Normal Depth Results

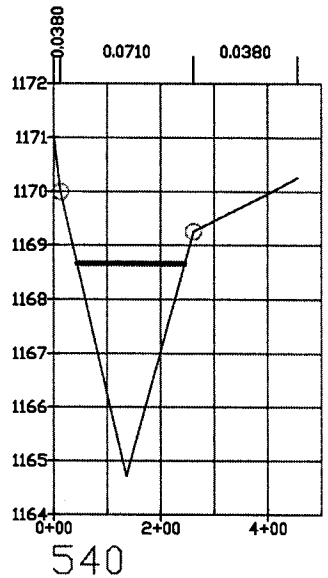
Cross-Section:	530	
Elevation:	1158.75	ft MSL
Depth:	2.86	ft
Discharge:	1020.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.2137	
Flow Regime:	Subcritical	
Flow Area:	497.75	sq ft
Average Velocity:	2.04	ft/s
Maximum Velocity:	2.07	ft/s
Composite n:	0.0666	
Hydraulic Radius:	1.25	ft
Wetted Perimeter:	399.54	ft
Wetted Top Width:	399.49	ft
Critical Slope:	0.1371	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S22–530

Entellus™

File: T2N-K6W-S22-Now-Mapping.dwg, Date: 10/18/02



Normal Depth Results

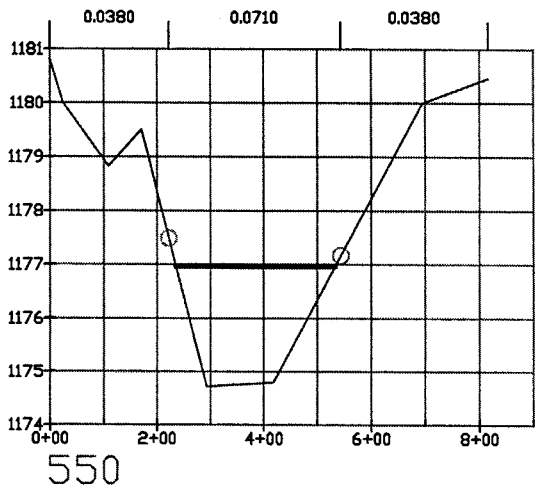
Cross-Section:	540	
Elevation:	1168.66	ft MSL
Depth:	3.95	ft
Discharge:	1020.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.2277	
Flow Regime:	Subcritical	
Flow Area:	397.28	sq ft
Average Velocity:	2.56	ft/s
Maximum Velocity:	2.56	ft/s
Composite n:	0.071	
Hydraulic Radius:	1.97	ft
Wetted Perimeter:	201.23	ft
Wetted Top Width:	201.07	ft
Critical Slope:	0.1165	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S22–540

Entellus™

File: T2N-R6W-S22-New-Mapping.dwg; Date: 10/18/02



Normal Depth Results

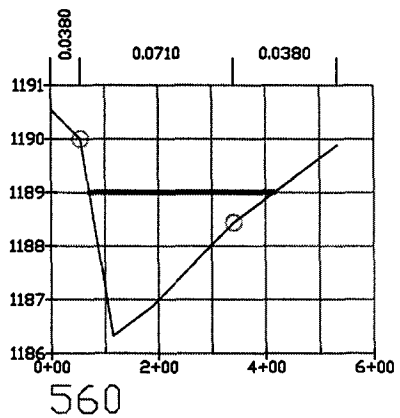
Cross-Section:	550	
Elevation:	1176.97	ft MSL
Depth:	2.25	ft
Discharge:	1020.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.2569	
Flow Regime:	Subcritical	
Flow Area:	466.47	sq ft
Average Velocity:	2.19	ft/s
Maximum Velocity:	2.19	ft/s
Composite n:	0.071	
Hydraulic Radius:	1.57	ft
Wetted Perimeter:	297.97	ft
Wetted Top Width:	297.91	ft
Critical Slope:	0.0904	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S22–550

Entellus™

File: T2N-R6W-S22-New-Mapping.dwg; Date: 10/18/02



Normal Depth Results

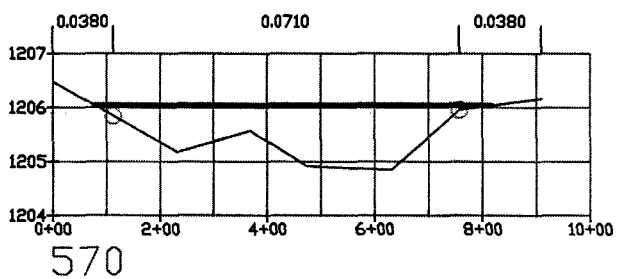
Cross-Section:	560	
Elevation:	1189.00	ft MSL
Depth:	2.67	ft
Discharge:	1020.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.2379	
Flow Regime:	Subcritical	
Flow Area:	462.19	sq ft
Average Velocity:	2.21	ft/s
Maximum Velocity:	2.25	ft/s
Composite n:	0.0646	
Hydraulic Radius:	1.34	ft
Wetted Perimeter:	345.13	ft
Wetted Top Width:	345.04	ft
Critical Slope:	0.1096	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S22–560

Entellus™

File: T2N-R6W-S22-New-Mapping.dwg, Date: 10/18/02



Normal Depth Results

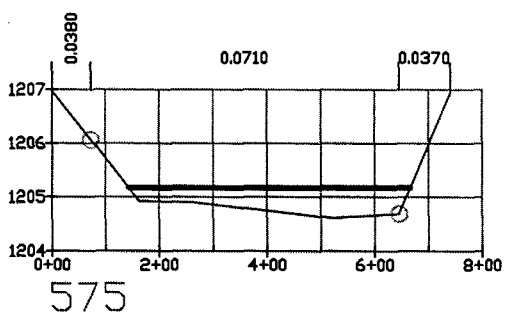
Cross-Section:	570	
Elevation:	1206.04	ft MSL
Depth:	1.19	ft
Discharge:	700.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.2234	
Flow Regime:	Subcritical	
Flow Area:	505.99	sq ft
Average Velocity:	1.36	ft/s
Maximum Velocity:	1.37	ft/s
Composite n:	0.0673	
Hydraulic Radius:	0.68	ft
Wetted Perimeter:	738.89	ft
Wetted Top Width:	738.88	ft
Critical Slope:	0.1296	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S22–570

Entellus™

File: T2N-R6W-S22-New-Mapping.dwg Date: 10/18/02



Normal Depth Results

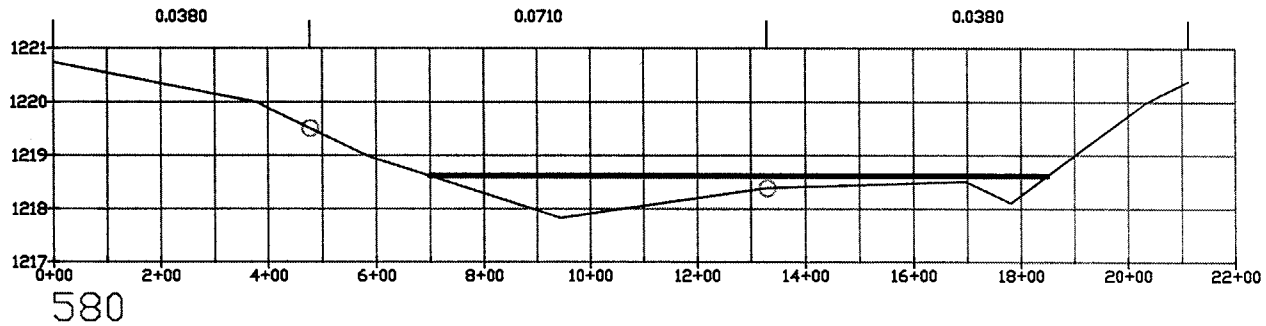
Cross-Section:	575	
Elevation:	1205.18	ft MSL
Depth:	0.57	ft
Discharge:	180.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.2039	
Flow Regime:	Subcritical	
Flow Area:	207.01	sq ft
Average Velocity:	0.89	ft/s
Maximum Velocity:	1.21	ft/s
Composite n:	0.0698	
Hydraulic Radius:	0.4	ft
Wetted Perimeter:	523.38	ft
Wetted Top Width:	523.37	ft
Critical Slope:	0.1376	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S22–575

Entellus™

File: T2N-R6W-S22-New-Mapping.dwg Date: 10/18/02



Normal Depth Results

Cross-Section:	580	
Elevation:	1218.62	ft MSL
Depth:	0.79	ft
Discharge:	390.00	cfs
Energy Gradient:	0.006	ft/ft
Froude Number:	0.1952	
Flow Regime:	Subcritical	
Flow Area:	396.83	sq ft
Average Velocity:	0.99	ft/s
Maximum Velocity:	1.04	ft/s
Composite n:	0.0573	
Hydraulic Radius:	0.35	ft
Wetted Perimeter:	1149.72	ft
Wetted Top Width:	1149.72	ft
Critical Slope:	0.1548	ft/ft

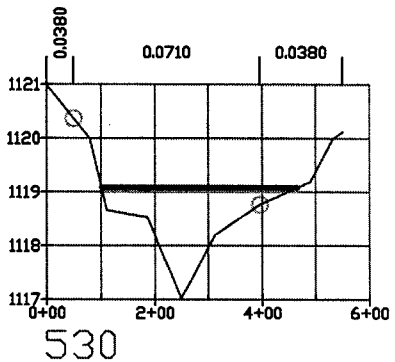
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S22–580

Entellus™

File: T2N-R6W-S22-New-Mapping.dwg; Date: 10/18/02

T2N-R6W-S27



Normal Depth Results

Cross-Section:	530	
Elevation:	1119.09	ft MSL
Depth:	2.07	ft
Discharge:	380.00	cfs
Energy Gradient:	0.005	ft/ft
Froude Number:	0.1684	
Flow Regime:	Subcritical	
Flow Area:	276.64	sq ft
Average Velocity:	1.36	ft/s
Maximum Velocity:	1.38	ft/s
Composite n:	0.0654	
Hydraulic Radius:	0.76	ft
Wetted Perimeter:	364.88	ft
Wetted Top Width:	364.84	ft
Critical Slope:	0.1853	ft/ft

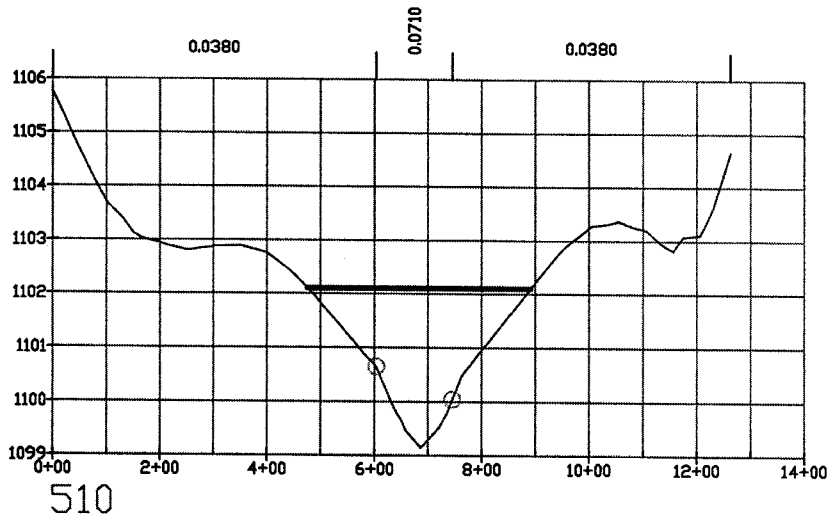
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S27–530

Entellus™

File: T2N-R6W-S27-New-Mapping.dwg Date: 10/28/02

T2N-R6W-S28



Normal Depth Results

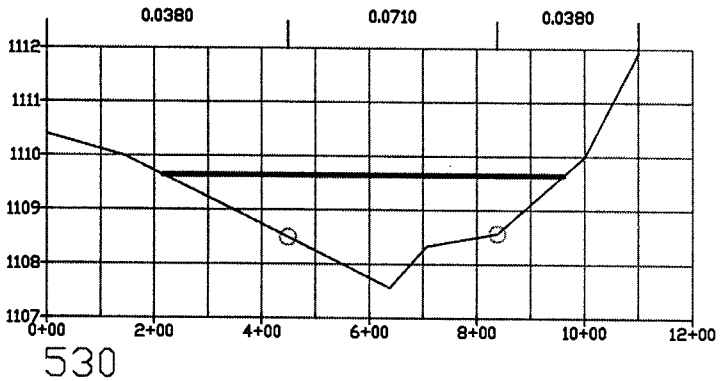
Cross-Section:	510	
Elevation:	1102.10	ft MSL
Depth:	2.96	ft
Discharge:	1520.00	cfs
Energy Gradient:	0.0052	ft/ft
Froude Number:	0.2709	
Flow Regime:	Subcritical	
Flow Area:	574.59	sq ft
Average Velocity:	2.66	ft/s
Maximum Velocity:	2.74	ft/s
Composite n:	0.0505	
Hydraulic Radius:	1.38	ft
Wetted Perimeter:	415.11	ft
Wetted Top Width:	415.07	ft
Critical Slope:	0.0709	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S28–510

Entellus™

File: T2N-R6W-S28-New-Mapping.dwg, Date: 10/29/02



Normal Depth Results

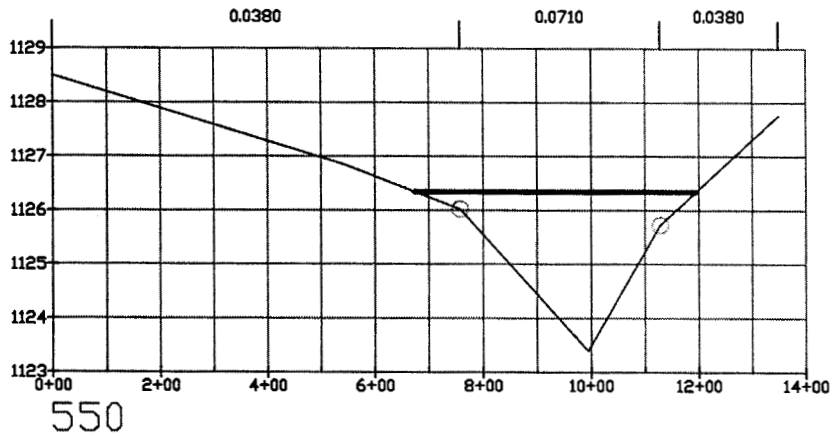
Cross-Section:	530	
Elevation:	1109.64	ft MSL
Depth:	2.08	ft
Discharge:	1520.00	cfs
Energy Gradient:	0.0052	ft/ft
Froude Number:	0.2388	
Flow Regime:	Subcritical	
Flow Area:	777.85	sq ft
Average Velocity:	1.96	ft/s
Maximum Velocity:	1.97	ft/s
Composite n:	0.0565	
Hydraulic Radius:	1.04	ft
Wetted Perimeter:	744.37	ft
Wetted Top Width:	744.36	ft
Critical Slope:	0.0908	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S28–530

Entellus™

File: T2N-R6W-S28-New-Mapping.dwg, Date: 10/29/02



Normal Depth Results

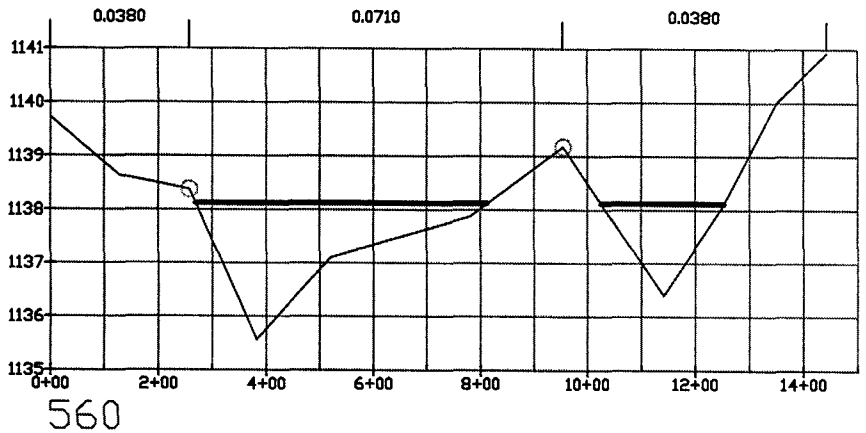
Cross-Section:	550	
Elevation:	1126.35	ft MSL
Depth:	2.95	ft
Discharge:	1370.00	cfs
Energy Gradient:	0.0052	ft/ft
Froude Number:	0.2131	
Flow Regime:	Subcritical	
Flow Area:	659.65	sq ft
Average Velocity:	2.09	ft/s
Maximum Velocity:	2.15	ft/s
Composite n:	0.0623	
Hydraulic Radius:	1.27	ft
Wetted Perimeter:	521.43	ft
Wetted Top Width:	521.39	ft
Critical Slope:	0.1216	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S28–550

Entellus™

File: T2N-R6W-S28-New-Mapping.dwg Date: 10/29/02



Normal Depth Results

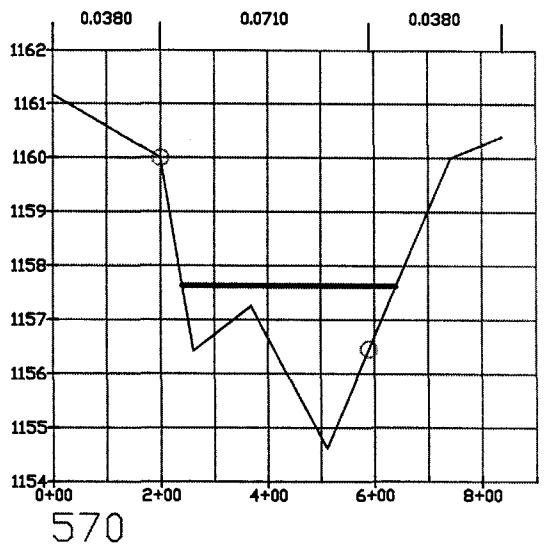
Cross-Section:	560	
Elevation:	1138.12	ft MSL
Depth:	2.55	ft
Discharge:	1370.00	cfs
Energy Gradient:	0.0052	ft/ft
Froude Number:	0.2	
Flow Regime:	Subcritical	
Flow Area:	755.57	sq ft
Average Velocity:	1.81	ft/s
Maximum Velocity:	2.57	ft/s
Composite n:	0.0622	
Hydraulic Radius:	0.98	ft
Wetted Perimeter:	772.21	ft
Wetted Top Width:	772.14	ft
Critical Slope:	0.1474	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S28–560

Entellus™

File: T2N-R6W-S28-New-Mapping.dwg Date: 10/29/02



Normal Depth Results

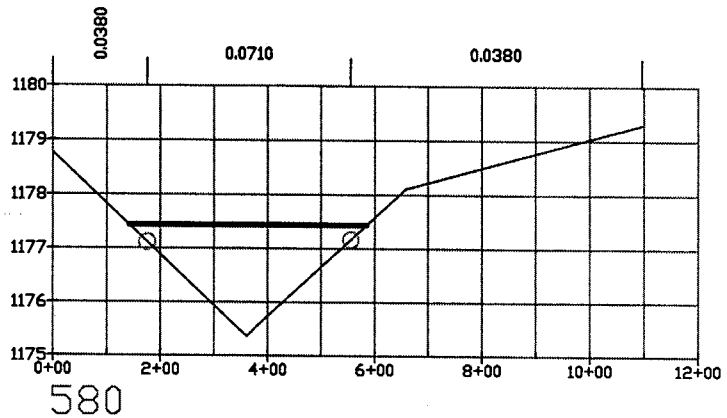
Cross-Section:	570	
Elevation:	1157.63	ft MSL
Depth:	3.01	ft
Discharge:	1030.00	cfs
Energy Gradient:	0.0052	ft/ft
Froude Number:	0.1959	
Flow Regime:	Subcritical	
Flow Area:	534.21	sq ft
Average Velocity:	1.94	ft/s
Maximum Velocity:	1.98	ft/s
Composite n:	0.0673	
Hydraulic Radius:	1.34	ft
Wetted Perimeter:	399.97	ft
Wetted Top Width:	399.87	ft
Critical Slope:	0.1345	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S28–570

Entellus™

File: T2N-R6W-S28-New-Mapping.dwg Date: 10/29/02



Normal Depth Results

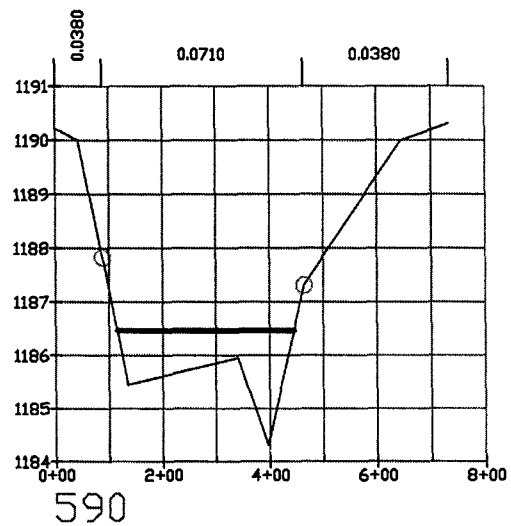
Cross-Section:	580	
Elevation:	1177.44	ft MSL
Depth:	2.08	ft
Discharge:	930.00	cfs
Energy Gradient:	0.0077	ft/ft
Froude Number:	0.2487	
Flow Regime:	Subcritical	
Flow Area:	457.39	sq ft
Average Velocity:	2.03	ft/s
Maximum Velocity:	2.05	ft/s
Composite n:	0.0668	
Hydraulic Radius:	1.03	ft
Wetted Perimeter:	443.19	ft
Wetted Top Width:	443.17	ft
Critical Slope:	0.129	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S28–580

Entellus™

File: T2N-K6W-S28-New-Mapping.dwg, Date: 10/29/02



Normal Depth Results

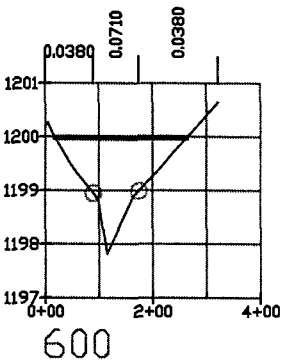
Cross-Section:	590	
Elevation:	1186.46	ft MSL
Depth:	2.15	ft
Discharge:	500.00	cfs
Energy Gradient:	0.0077	ft/ft
Froude Number:	0.2033	
Flow Regime:	Subcritical	
Flow Area:	295.45	sq ft
Average Velocity:	1.71	ft/s
Maximum Velocity:	1.71	ft/s
Composite n:	0.071	
Hydraulic Radius:	0.89	ft
Wetted Perimeter:	330.71	ft
Wetted Top Width:	330.62	ft
Critical Slope:	0.1828	ft/ft

File: T2N-R6W-S28-New-Mapping.dwg Date: 10/29/02

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S28–590

Entellus™



Normal Depth Results

Cross-Section:	600	
Elevation:	1199.98	ft MSL
Depth:	2.16	ft
Discharge:	500.00	cfs
Energy Gradient:	0.0077	ft/ft
Froude Number:	0.2827	
Flow Regime:	Subcritical	
Flow Area:	211.92	sq ft
Average Velocity:	2.35	ft/s
Maximum Velocity:	2.42	ft/s
Composite n:	0.0506	
Hydraulic Radius:	0.86	ft
Wetted Perimeter:	245.11	ft
Wetted Top Width:	245.05	ft
Critical Slope:	0.0975	ft/ft

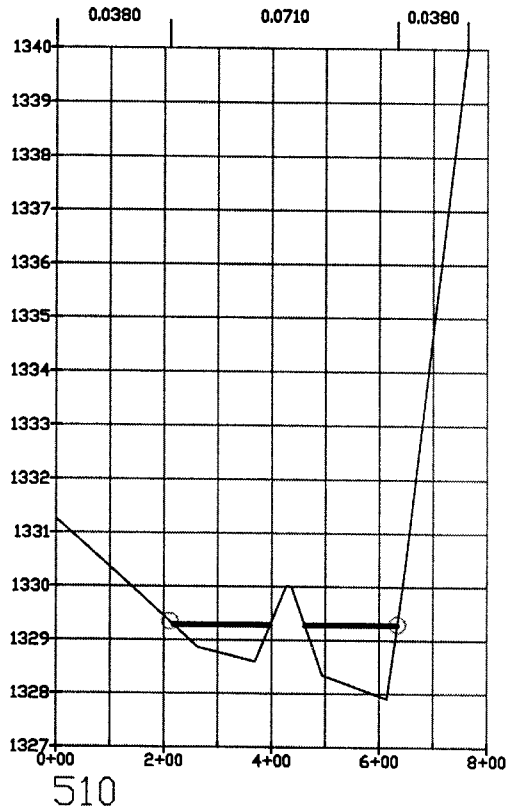
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T2N–R6W–S28–600

Entellus™

File: T2N-R6W-S28-New-Mapping.dwg, Date: 10/29/02

T3N-R6W-S21



Normal Depth Results

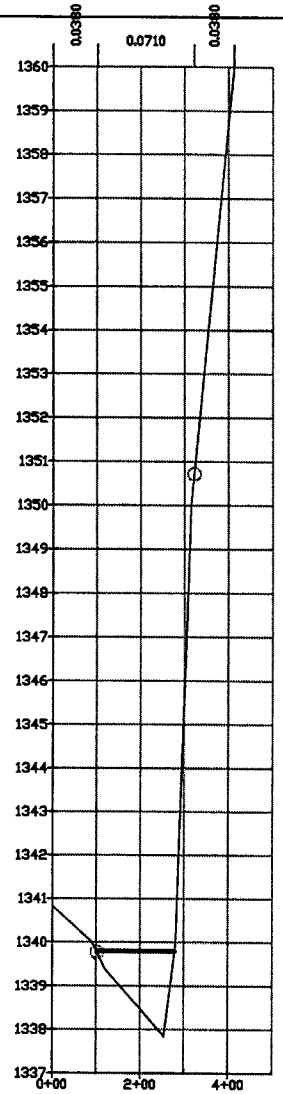
Cross-Section:	510	
Elevation:	1329.29	ft MSL
Depth:	1.38	ft
Discharge:	360.00	cfs
Energy Gradient:	0.008	ft/ft
Froude Number:	0.2212	
Flow Regime:	Subcritical	
Flow Area:	244.62	sq ft
Average Velocity:	1.48	ft/s
Maximum Velocity:	1.48	ft/s
Composite n:	0.071	
Hydraulic Radius:	0.7	ft
Wetted Perimeter:	351.02	ft
Wetted Top Width:	350.94	ft
Critical Slope:	0.1626	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T3N–R6W–S21–510

Entellus™

File: T3N-R6W-S21-New-Mapping.dwg, Date: 9/03/02



520

Normal Depth Results

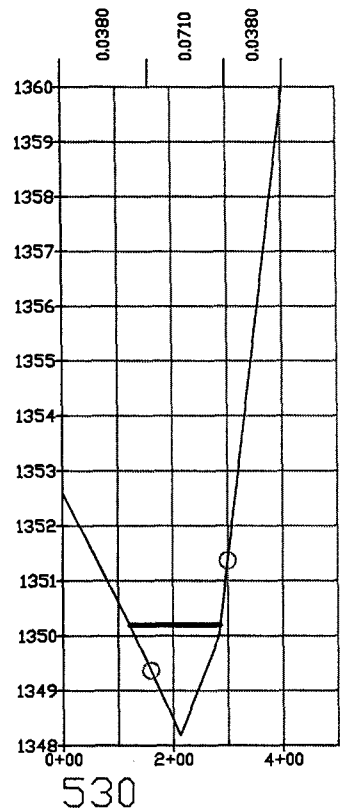
Cross-Section:	520	
Elevation:	1339.80	ft MSL
Depth:	1.95	ft
Discharge:	360.00	cfs
Energy Gradient:	0.008	ft/ft
Froude Number:	0.2454	
Flow Regime:	Subcritical	
Flow Area:	185.25	sq ft
Average Velocity:	1.94	ft/s
Maximum Velocity:	1.94	ft/s
Composite n:	0.0708	
Hydraulic Radius:	1.04	ft
Wetted Perimeter:	177.87	ft
Wetted Top Width:	177.78	ft
Critical Slope:	0.1343	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T3N–R6W–S21–520

Entellus™

File: T3N-R6W-S21-New-Mapping.dwg Date: 10/18/02



Normal Depth Results

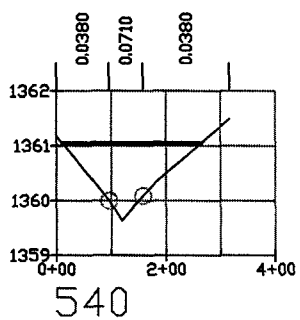
Cross-Section:	530	
Elevation:	1350.20	ft MSL
Depth:	2.01	ft
Discharge:	360.00	cfs
Energy Gradient:	0.008	ft/ft
Froude Number:	0.2628	
Flow Regime:	Subcritical	
Flow Area:	170.31	sq ft
Average Velocity:	2.12	ft/s
Maximum Velocity:	2.14	ft/s
Composite n:	0.0641	
Hydraulic Radius:	1.03	ft
Wetted Perimeter:	165.53	ft
Wetted Top Width:	165.47	ft
Critical Slope:	0.1153	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T3N–R6W–S21–530

Entellus™

File: T3N-K6W-S21-New-Mapping.dwg Date: 10/18/02



Normal Depth Results

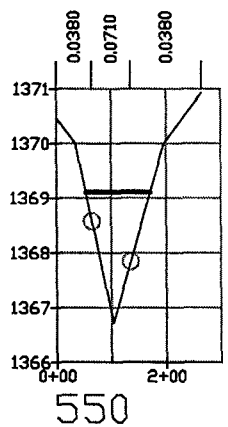
Cross-Section:	540	
Elevation:	1361.04	ft MSL
Depth:	1.40	ft
Discharge:	360.00	cfs
Energy Gradient:	0.008	ft/ft
Froude Number:	0.3235	
Flow Regime:	Subcritical	
Flow Area:	165.70	sq ft
Average Velocity:	2.14	ft/s
Maximum Velocity:	2.27	ft/s
Composite n:	0.0471	
Hydraulic Radius:	0.66	ft
Wetted Perimeter:	251.97	ft
Wetted Top Width:	251.95	ft
Critical Slope:	0.0789	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T3N–R6W–S21–540

Entellus™

File: T3N-R6W-S21-New-Mapping.dwg Date: 10/18/02



Normal Depth Results

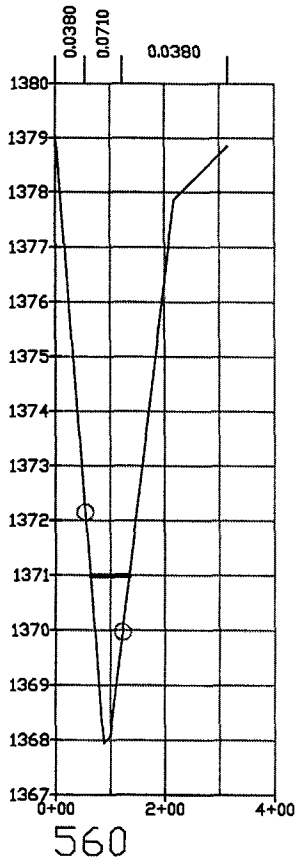
Cross-Section:	550	
Elevation:	1369.11	ft MSL
Depth:	2.38	ft
Discharge:	360.00	cfs
Energy Gradient:	0.008	ft/ft
Froude Number:	0.2928	
Flow Regime:	Subcritical	
Flow Area:	140.41	sq ft
Average Velocity:	2.56	ft/s
Maximum Velocity:	2.59	ft/s
Composite n:	0.059	
Hydraulic Radius:	1.19	ft
Wetted Perimeter:	117.96	ft
Wetted Top Width:	117.87	ft
Critical Slope:	0.0952	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T3N–R6W–S21–550

Entellus™

File: T3N-R6W-S21-New-Mapping.dwg Date: 10/18/02



Normal Depth Results

Cross-Section:	560	
Elevation:	1370.99	ft MSL
Depth:	3.04	ft
Discharge:	360.00	cfs
Energy Gradient:	0.008	ft/ft
Froude Number:	0.2945	
Flow Regime:	Subcritical	
Flow Area:	123.57	sq ft
Average Velocity:	2.93	ft/s
Maximum Velocity:	2.97	ft/s
Composite n:	0.0659	
Hydraulic Radius:	1.73	ft
Wetted Perimeter:	71.41	ft
Wetted Top Width:	71.10	ft
Critical Slope:	0.0922	ft/ft

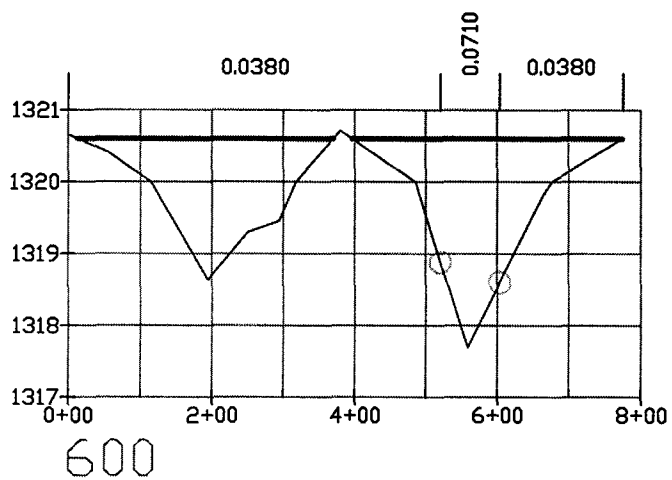
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T3N–R6W–S21–560

Entellus™

File: T3N-R6W-S21-New-Mapping.dwg Date: 10/18/02

T3N-R6W-S21E



Normal Depth Results

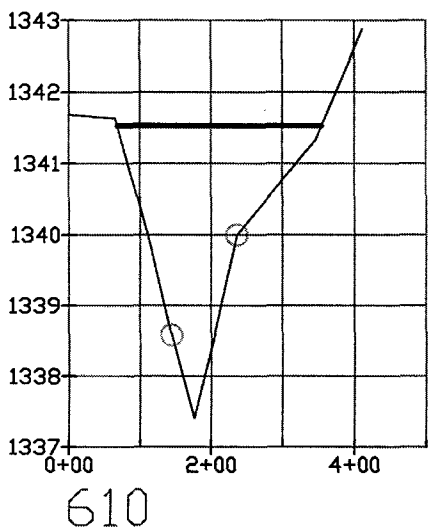
Cross-Section:	600	
Elevation:	1320.600	ft MSL
Depth:	2.910	ft
Discharge:	2400.000	cfs
Energy Gradient:	0.01	ft/ft
Froude Number:	0.3546	
Flow Regime:	Subcritical	
Flow Area:	699.890	sq ft
Average Velocity:	3.420	ft/s
Maximum Velocity:	3.750	ft/s
Composite n:	0.0423	
Hydraulic Radius:	0.95	ft
Wetted Perimeter:	734.960	ft
Wetted Top Width:	734.870	ft
Critical Slope:	0.0805	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T3N–R6W–S21E–600

Entellus™

File: T3N-R6W-S21E-New-Mapping.dwg Date: 8/30/04



Normal Depth Results

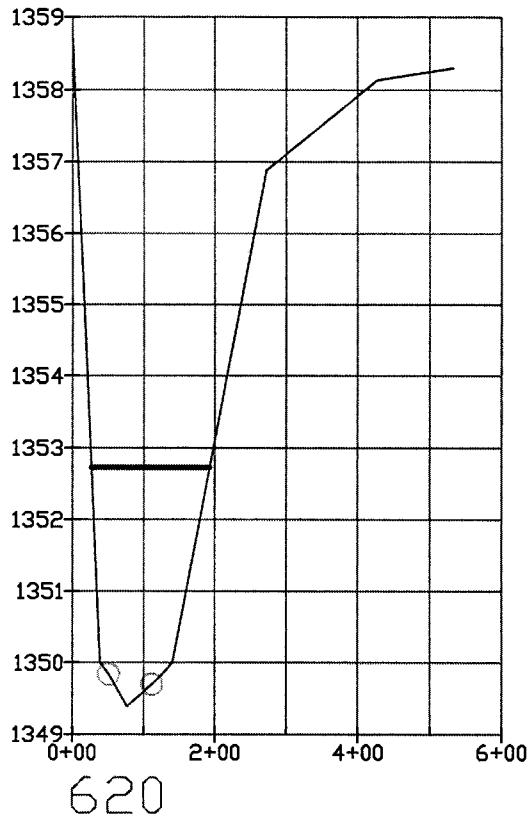
Cross-Section:	610	
Elevation:	1341.530	ft MSL
Depth:	4.120	ft
Discharge:	2110.000	cfs
Energy Gradient:	0.01	ft/ft
Froude Number:	0.3763	
Flow Regime:	Subcritical	
Flow Area:	486.830	sq ft
Average Velocity:	4.350	ft/s
Maximum Velocity:	4.920	ft/s
Composite n:	0.0497	
Hydraulic Radius:	1.7	ft
Wetted Perimeter:	286.490	ft
Wetted Top Width:	286.350	ft
Critical Slope:	0.0729	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T3N–R6W–S21E–610

Entellus™

File: T3N-R6W-S21E-New-Mapping.dwg Date: 8/30/04



Normal Depth Results

Cross-Section:	620	
Elevation:	1352.730	ft MSL
Depth:	3.340	ft
Discharge:	2110.000	cfs
Energy Gradient:	0.01	ft/ft
Froude Number:	0.5145	
Flow Regime:	Subcritical	
Flow Area:	395.680	sq ft
Average Velocity:	5.330	ft/s
Maximum Velocity:	6.340	ft/s
Composite n:	0.0512	
Hydraulic Radius:	2.38	ft
Wetted Perimeter:	166.120	ft
Wetted Top Width:	165.740	ft
Critical Slope:	0.0399	ft/ft

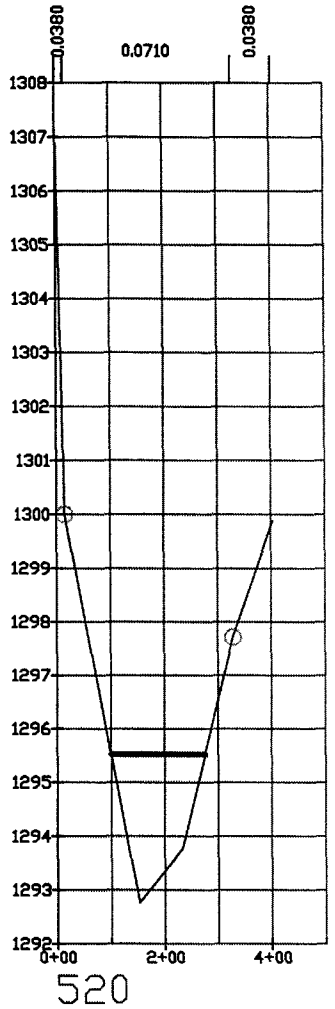
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T3N–R6W–S21E–620

Entellus™

File: T3N-R6W-S21E-New-Mapping.dwg Date: 8/30/04

T3N-R6W-S27S



Normal Depth Results

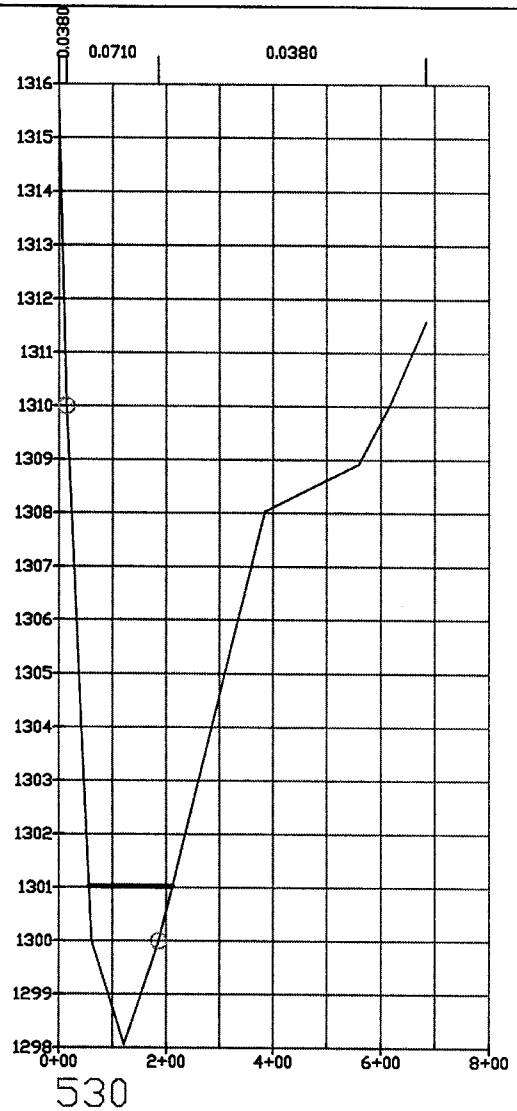
Cross-Section:	520	
Elevation:	1295.53	ft MSL
Depth:	2.76	ft
Discharge:	720.00	cfs
Energy Gradient:	0.007	ft/ft
Froude Number:	0.262	
Flow Regime:	Subcritical	
Flow Area:	291.85	sq ft
Average Velocity:	2.46	ft/s
Maximum Velocity:	2.46	ft/s
Composite n:	0.071	
Hydraulic Radius:	1.66	ft
Wetted Perimeter:	175.72	ft
Wetted Top Width:	175.60	ft
Critical Slope:	0.1023	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T3N–R6W–S27S–520

Entellus™

File: T3N-R6W-S27S.dwg, Date: 11/04/02



Normal Depth Results

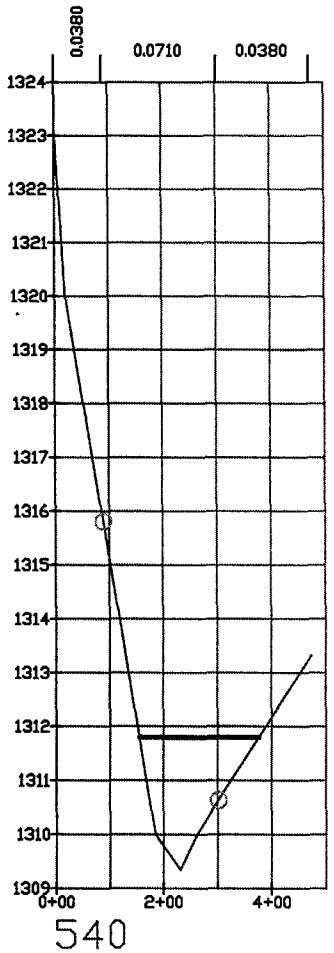
Cross-Section:	530	
Elevation:	1301.03	ft MSL
Depth:	2.97	ft
Discharge:	720.00	cfs
Energy Gradient:	0.007	ft/ft
Froude Number:	0.2771	
Flow Regime:	Subcritical	
Flow Area:	265.88	sq ft
Average Velocity:	2.70	ft/s
Maximum Velocity:	2.73	ft/s
Composite n:	0.0662	
Hydraulic Radius:	1.71	ft
Wetted Perimeter:	155.80	ft
Wetted Top Width:	155.61	ft
Critical Slope:	0.0924	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T3N–R6W–S27S–530

Entellus™

File: T3N-R6W-S27S.dwg, Date: 11/04/02



Normal Depth Results

Cross-Section:	540	
Elevation:	1311.80	ft MSL
Depth:	2.45	ft
Discharge:	720.00	cfs
Energy Gradient:	0.007	ft/ft
Froude Number:	0.277	
Flow Regime:	Subcritical	
Flow Area:	292.84	sq ft
Average Velocity:	2.47	ft/s
Maximum Velocity:	2.50	ft/s
Composite n:	0.061	
Hydraulic Radius:	1.32	ft
Wetted Perimeter:	221.23	ft
Wetted Top Width:	221.15	ft
Critical Slope:	0.0909	ft/ft

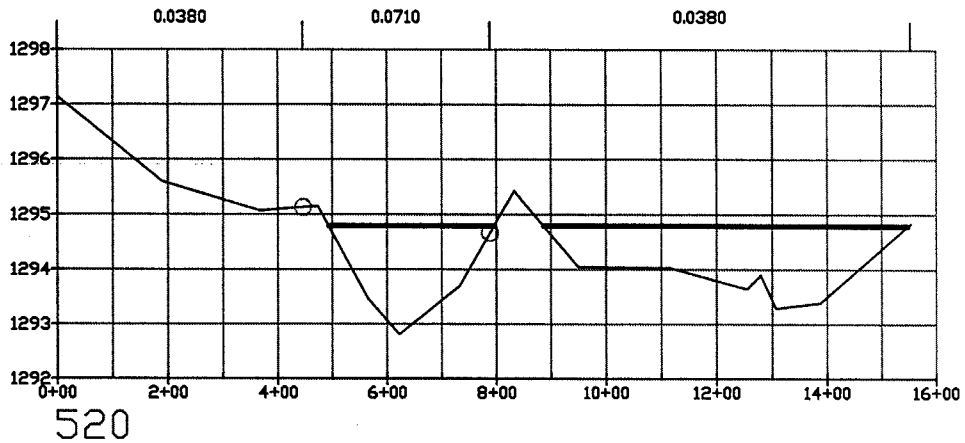
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T3N–R6W–S27S–540

Entellus™

File: T3N-R6W-S27S.dwg, Date: 11/04/02

T3N-R6W-S27W



Normal Depth Results

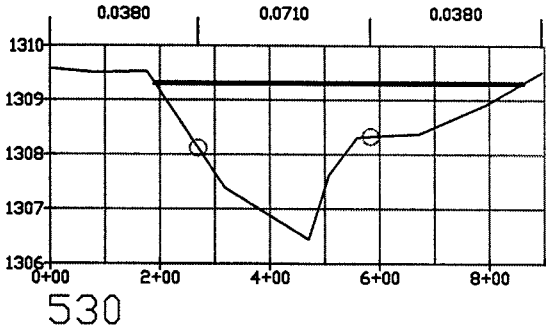
Cross-Section:	520	
Elevation:	1294.79	ft MSL
Depth:	1.98	ft
Discharge:	2480.00	cfs
Energy Gradient:	0.0078	ft/ft
Froude Number:	0.339	
Flow Regime:	Subcritical	
Flow Area:	915.68	sq ft
Average Velocity:	2.71	ft/s
Maximum Velocity:	3.11	ft/s
Composite n:	0.0492	
Hydraulic Radius:	0.95	ft
Wetted Perimeter:	964.54	ft
Wetted Top Width:	964.49	ft
Critical Slope:	0.0747	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T3N–R6W–S27W–520

Entellus™

File: T3N-R6W-S27W-New-Mapping.dwg Date: 11/14/02



Normal Depth Results

Cross-Section:	530	
Elevation:	1309.31	ft MSL
Depth:	2.87	ft
Discharge:	2400.00	cfs
Energy Gradient:	0.0078	ft/ft
Froude Number:	0.2953	
Flow Regime:	Subcritical	
Flow Area:	845.12	sq ft
Average Velocity:	2.82	ft/s
Maximum Velocity:	2.92	ft/s
Composite n:	0.0547	
Hydraulic Radius:	1.26	ft
Wetted Perimeter:	669.43	ft
Wetted Top Width:	669.39	ft
Critical Slope:	0.0913	ft/ft

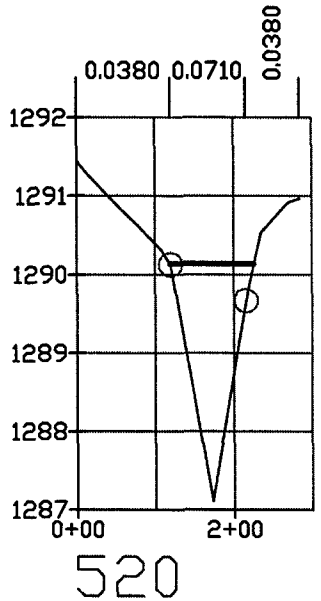
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T3N–R6W–S27W–530

Entellus™

File: T3N-R6W-S27W-New-Mapping.dwg Date: 10/18/02

T3N-R6W-S29



Normal Depth Results

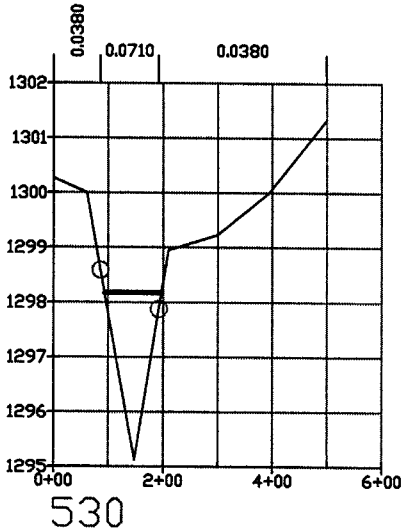
Cross-Section:	520	
Elevation:	1290.14	ft MSL
Depth:	3.03	ft
Discharge:	430.00	cfs
Energy Gradient:	0.0091	ft/ft
Froude Number:	0.2761	
Flow Regime:	Subcritical	
Flow Area:	157.63	sq ft
Average Velocity:	2.74	ft/s
Maximum Velocity:	2.76	ft/s
Composite n:	0.0678	
Hydraulic Radius:	1.47	ft
Wetted Perimeter:	107.31	ft
Wetted Top Width:	107.13	ft
Critical Slope:	0.1212	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T3N–R6W–S29–520

Entellus™

File: T3N-R6W-S29.dwg Date: 10/28/02



Normal Depth Results

Cross-Section:	530	
Elevation:	1298.18	ft MSL
Depth:	3.06	ft
Discharge:	430.00	cfs
Energy Gradient:	0.0091	ft/ft
Froude Number:	0.2729	
Flow Regime:	Subcritical	
Flow Area:	158.82	sq ft
Average Velocity:	2.72	ft/s
Maximum Velocity:	2.73	ft/s
Composite n:	0.0696	
Hydraulic Radius:	1.53	ft
Wetted Perimeter:	104.07	ft
Wetted Top Width:	103.89	ft
Critical Slope:	0.1223	ft/ft

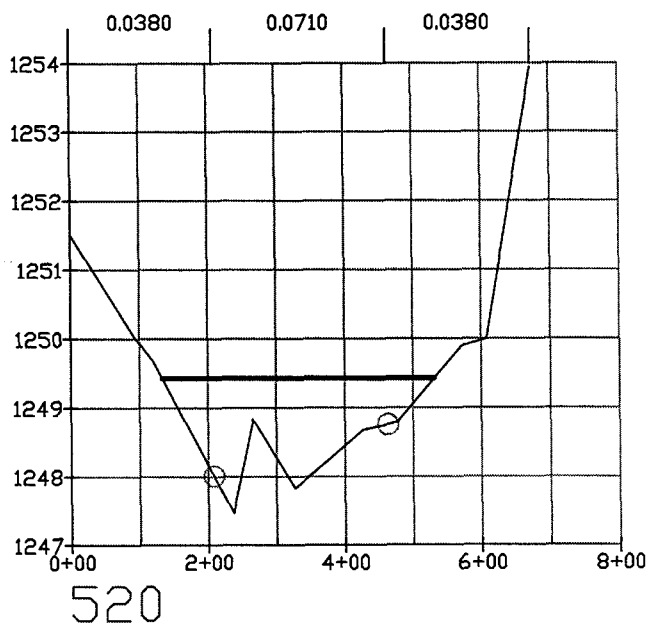
PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T3N–R6W–S29–530

Entellus™

File: T3N-R6W-S29-New-Mapping.dwg Date: 10/28/02

T3N-R6W-S33



Normal Depth Results

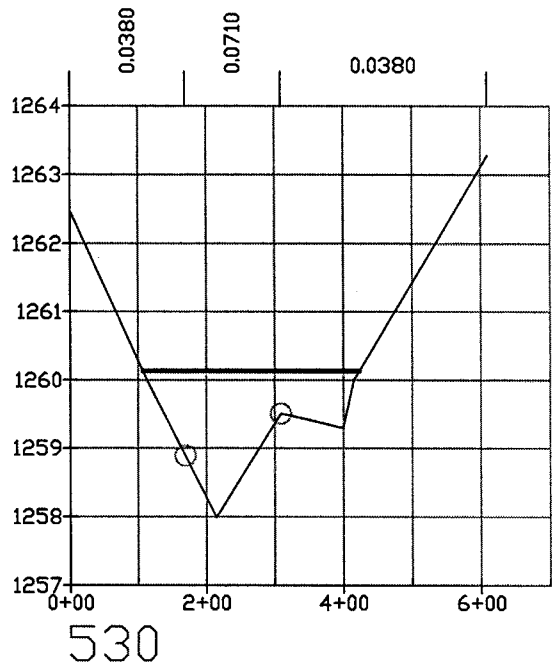
Cross-Section:	520	
Elevation:	1249.43	ft MSL
Depth:	1.96	ft
Discharge:	720.00	cfs
Energy Gradient:	0.0064	ft/ft
Froude Number:	0.2412	
Flow Regime:	Subcritical	
Flow Area:	375.86	sq ft
Average Velocity:	1.93	ft/s
Maximum Velocity:	2.50	ft/s
Composite n:	0.0601	
Hydraulic Radius:	0.94	ft
Wetted Perimeter:	399.03	ft
Wetted Top Width:	398.97	ft
Critical Slope:	0.1112	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T3N–R6W–S33–520

Entellus™

File: T3N-R6W-S33-New-Mapping.dwg Date: 10/23/02



Normal Depth Results

Cross-Section:	530	
Elevation:	1260.14	ft MSL
Depth:	2.15	ft
Discharge:	720.00	cfs
Energy Gradient:	0.0064	ft/ft
Froude Number:	0.2699	
Flow Regime:	Subcritical	
Flow Area:	320.98	sq ft
Average Velocity:	2.24	ft/s
Maximum Velocity:	2.35	ft/s
Composite n:	0.0538	
Hydraulic Radius:	1.02	ft
Wetted Perimeter:	316.12	ft
Wetted Top Width:	316.06	ft
Critical Slope:	0.0883	ft/ft

PALO VERDE WATERSHED ZONE A FLOODPLAIN DELINEATION STUDY: FCD 2000C021

Figure E2 – Wash: T3N–R6W–S33–530

Entellus™

File: T3N-R6W-S33-New-Mapping.dwg Date: 10/23/02