

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5988.00
 Right Overbank Elevation (ft, RBEL) 5988.00

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14317.000	.000	.013	.000	4.09	5981.26	5983.06	.00
.011012	302	302	302	5987.43	6.18	1.46	.97
5.25	0	73	0	.00	5988.00	5988.00	6
1470	0	1469	0	18.1	177.51	196.42	8
.04	.00	19.95	.00	.000	1.5	5977.17	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 14285.000.

STATUS: Water surface elevation set by X5 card, 5979.600 ft MSL.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 2.07

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) .00
 Right Encroachment Station (ft, STENCR) 191.36
 Encroachment Method (TYPE) 1
 Width or Percent Target 191.359

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5984.66
 Right Overbank Elevation (ft, RBEL) 5984.66

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR

PROJECT NUMBER : 67.42167.08

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SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14285.000	.000	.013	.000	3.00	5979.60	5983.39	.00
.047033	33	32	36	6003.55	23.95	.65	5.33
5.29	0	37	0	.00	5984.66	5984.66	0
1470	0	1469	0	16.9	164.88	181.83	14
.04	.00	39.27	.00	.000	1.5	5976.60	0

STATUS: Analyzing cross-section reach 14217.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5981.33
Right Overbank Elevation (ft, RBEL)	5981.33

14217.000	.000	.013	.000	3.00	5976.33	5980.11	.00
.047195	68	68	94	6000.30	23.97	3.24	.01
5.35	0	37	0	.00	5981.33	5981.33	16
1470	0	1469	0	17.0	109.51	126.50	17
.04	.00	39.29	.00	.000	1.6	5973.33	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .300

STATUS: Analyzing cross-section reach 14193.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .43

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5980.62
Right Overbank Elevation (ft, RBEL)	5980.62

14193.000	.000	.013	.000	3.68	5976.30	5980.14	.00
.025100	123	124	125	5994.78	18.48	3.88	1.65
5.50	0	71	0	.00	5980.62	5980.62	5
2470	0	2469	0	25.0	108.50	133.51	17
.04	.00	34.49	.00	.000	1.6	5972.62	0

STATUS: Analyzing cross-section reach 13706.000.

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR

PROJECT NUMBER : 67.42167.08

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STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5977.42
Right Overbank Elevation (ft, RBEL) 5977.42

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13706.000	.000	.013	.000	4.32	5973.74	5976.92	.00
.013829	392	385	380	5985.84	12.10	7.02	1.91
6.21	0	88	0	.00	5977.42	5977.42	7
2470	0	2469	0	27.0	107.52	134.48	17
.05	.00	27.91	.00	.000	1.8	5969.42	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .300

STATUS: Analyzing cross-section reach 13570.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5977.25
Right Overbank Elevation (ft, RBEL) 5977.25

13570.000	.000	.013	.000	4.61	5972.86	5975.93	.00
.011557	135	135	134	5983.78	10.91	1.71	.35
6.50	0	93	0	.00	5977.25	5977.25	10
2470	0	2469	0	26.3	107.84	134.16	14
.05	.00	26.51	.00	.000	1.9	5968.25	0

STATUS: Analyzing cross-section reach 13525.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5976.42
Right Overbank Elevation (ft, RBEL) 5976.42

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR

PROJECT NUMBER : 67.42167.08

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SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTKNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13525.000	.000	.013	.000	4.60	5972.02	5975.18	.00
.011955	40	40	40	5983.22	11.20	.47	.09
6.58	0	91	0	.00	5976.42	5976.40	9
2470	0	2469	0	20.0	100.99	121.01	14
.05	.00	26.86	.00	.000	1.9	5967.42	0

STATUS: Analyzing cross-section reach 13405.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5975.43
Right Overbank Elevation (ft, RBEL)	5975.43

13405.000	.000	.013	.000	4.75	5971.18	5974.19	.00
.010796	116	120	123	5981.63	10.45	1.37	.22
6.84	0	95	0	.00	5975.43	5975.43	9
2470	0	2469	0	20.1	164.11	184.21	14
.05	.00	25.94	.00	.000	2.0	5966.43	0

STATUS: Analyzing cross-section reach 13280.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5974.39
Right Overbank Elevation (ft, RBEL)	5974.40

13280.000	.000	.013	.000	4.87	5970.26	5973.13	.00
.010023	119	124	129	5980.18	9.92	1.29	.16
7.11	0	97	0	.00	5974.39	5974.40	13
2470	0	2469	0	20.1	175.46	195.59	14
.05	.00	25.28	.00	.000	2.1	5965.39	0

STATUS: Analyzing cross-section reach 13205.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5972.95
Right Overbank Elevation (ft, RBEL)	5972.95

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR

PROJECT NUMBER : 67.42167.08

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SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13205.000	.000	.013	.000	4.95	5968.90	5971.90	.00
.010503	78	75	73	5979.27	10.38	.77	.14
7.28	0	95	0	.00	5972.95	5972.95	16
2470	0	2469	0	19.4	209.64	229.00	14
.05	.00	25.85	.00	.000	2.1	5963.95	0

STATUS: Analyzing cross-section reach 13105.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5971.03
Right Overbank Elevation (ft, RBEL)	5971.03

13105.000	.000	.013	.000	4.66	5966.69	5969.88	.00
.011858	103	99	90	5977.91	11.22	1.11	.25
7.50	0	91	0	.00	5971.03	5971.03	14
2470	0	2469	0	19.7	188.33	208.06	14
.05	.00	26.88	.00	.000	2.1	5962.03	0

STATUS: Analyzing cross-section reach 13036.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5969.67
Right Overbank Elevation (ft, RBEL)	5969.67

13036.000	.000	.013	.000	4.53	5965.13	5968.40	.00
.012834	72	69	67	5976.89	11.76	.86	.16
7.64	0	89	0	.00	5969.67	5969.67	17
2470	0	2469	0	20.0	101.00	121.00	14
.06	.00	27.52	.00	.000	2.2	5960.60	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 13000.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.69

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5964.75
 Right Overbank Elevation (ft, RBEL) 5964.75

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13000.000	.000	.013	.000	1.81	5961.56	5964.12	.00
.036666	39	37	39	5975.48	13.93	.75	.65
7.71	0	82	0	.00	5964.70	5964.75	17
2470	0	2469	0	50.9	109.51	160.46	8
.06	.00	29.95	.00	.000	2.2	5959.75	0

T1 67.42167.08
 T2 PETERSON FIELD DRAINAGE BASIN LOMR
 T3 SECT.13000/17150 SPRCRIT/HECSP4E3.DAT

JOB PARAMETERS :

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		5		1				2440	6020.57	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15		-1				-1	-6		

STATUS: Analyzing profile 4.

STATUS: Critical depth to be calculated at all cross-sections.

STATUS: Analyzing cross-section reach 17510.000.

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR

PROJECT NUMBER : 67.42167.08

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STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6021.51
 Right Overbank Elevation (ft, RBEL) 6021.51

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
17510.000	.000	.013	.000	7.06	6020.57	6022.66	6020.57
.005749	0	0	0	6027.30	6.73	.00	.00
.00	0	117	0	.00	6021.51	6021.50	0
2440	0	2440	0	27.2	103.41	130.60	10
.00	.00	20.82	.00	.000	.0	6013.51	0

STATUS: Analyzing cross-section reach 17383.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6020.84
 Right Overbank Elevation (ft, RBEL) 6020.75

17383.000	.000	.013	.000	7.05	6019.80	6021.83	.00
.005784	128	128	128	6026.56	6.76	.74	.00
.35	0	116	0	.00	6020.75	6020.75	6
2440	0	2440	0	27.2	103.42	130.58	11
.00	.00	20.87	.00	.000	.1	6012.75	0

STATUS: Analyzing cross-section reach 17375.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6018.75
 Right Overbank Elevation (ft, RBEL) 6018.75

17375.000	.000	.013	.000	6.38	6017.13	6019.83	.00
.008977	5	5	5	6026.53	9.39	.04	.00
.36	0	99	0	.00	6018.75	6018.75	6
2440	0	2440	0	25.1	104.44	129.56	11
.00	.00	24.60	.00	.000	.1	6010.75	0

STATUS: Analyzing cross-section reach 17178.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6017.50
Right Overbank Elevation (ft, RBEL) 6017.50

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
17178.000	.000	.013	.000	6.50	6016.00	6018.62	.00
.008274	195	195	195	6024.84	8.84	1.69	.00
.81	0	102	0	.00	6017.50	6017.50	6
2440	0	2440	0	25.5	104.26	129.74	11
.00	.00	23.86	.00	.000	.2	6009.50	0

STATUS: Analyzing cross-section reach 17174.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6016.50
Right Overbank Elevation (ft, RBEL) 6016.50

17174.000	.000	.013	.000	6.24	6014.74	6017.61	.00
.009841	4	4	4	6024.80	10.06	.04	.00
.82	0	95	0	.00	6016.50	6016.50	7
2440	0	2440	0	24.7	104.64	129.36	11
.00	.00	25.46	.00	.000	.2	6008.50	0

STATUS: Analyzing cross-section reach 16928.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6014.95
Right Overbank Elevation (ft, RBEL) 6014.95

16928.000	.000	.013	.000	6.42	6013.37	6016.08	.00
.008717	242	242	242	6022.56	9.19	2.24	.00
1.36	0	100	0	.00	6014.95	6014.95	6
2440	0	2440	0	25.3	104.37	129.63	11
.01	.00	24.33	.00	.000	.3	6006.95	0

STATUS: Analyzing cross-section reach 16920.000.

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR

PROJECT NUMBER : 67.42167.08

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STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6012.95
Right Overbank Elevation (ft, RBEL) 6012.95

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16920.000	.000	.013	.000	5.99	6010.94	6014.07	.00
.011836	8	8	8	6022.48	11.55	.08	.00
1.38	0	89	0	.00	6012.95	6012.95	7
2440	0	2440	0	23.9	105.03	128.97	11
.01	.00	27.27	.00	.000	.3	6004.95	0

STATUS: Analyzing cross-section reach 16728.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6011.72
Right Overbank Elevation (ft, RBEL) 6011.72

16728.000	.000	.013	.000	6.17	6009.89	6012.79	.00
.010383	192	192	192	6020.36	10.47	2.13	.00
1.79	0	93	0	.00	6011.72	6011.72	7
2440	0	2440	0	24.5	104.76	129.24	14
.01	.00	25.97	.00	.000	.4	6003.72	0

STATUS: Analyzing cross-section reach 16720.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6009.72
Right Overbank Elevation (ft, RBEL) 6009.72

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR

PROJECT NUMBER : 67.42167.08

10/19/1998

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16720.000	.000	.013	.000	5.79	6007.51	6010.79	.00
.013516	8	8	8	6020.26	12.75	.09	.00
1.80	0	85	0	.00	6009.72	6009.72	8
2440	0	2439	0	23.4	105.31	128.69	14
.01	.00	28.65	.00	.000	.5	6001.72	0

STATUS: Analyzing cross-section reach 16516.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)						6008.41	
Right Overbank Elevation (ft, RBEL)						6008.41	
16516.000	.000	.013	.000	6.02	6006.43	6009.48	.00
.011490	204	204	204	6017.73	11.30	2.54	.00
2.21	0	90	0	.00	6008.41	6008.41	7
2440	0	2439	0	24.1	104.97	129.03	14
.01	.00	26.97	.00	.000	.6	6000.41	0

STATUS: Analyzing cross-section reach 16508.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)						6006.41	
Right Overbank Elevation (ft, RBEL)						6006.41	
16508.000	.000	.013	.000	5.69	6004.10	6007.49	.00
.014628	8	8	8	6017.62	13.52	.10	.00
2.23	0	82	0	.00	6006.41	6006.41	8
2440	0	2439	0	23.1	105.47	128.53	14
.01	.00	29.51	.00	.000	.6	5998.41	0

STATUS: Analyzing cross-section reach 16303.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6005.10
 Right Overbank Elevation (ft, RBEL) 6005.10

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16303.000	.000	.013	.000	5.93	6003.03	6006.17	.00
.012250	205	205	250	6014.88	11.85	2.74	.00
2.63	0	88	0	.00	6005.10	6005.10	7
2440	0	2440	0	23.8	105.10	128.90	14
.01	.00	27.62	.00	.000	.7	5997.10	0

STATUS: Analyzing cross-section reach 16295.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6004.10
 Right Overbank Elevation (ft, RBEL) 6004.10

16295.000	.000	.013	.000	5.77	6001.87	6005.17	.00
.013742	8	8	8	6014.78	12.91	.10	.00
2.65	0	84	0	.00	6004.10	6004.10	8
2440	0	2439	0	23.3	105.34	128.66	14
.01	.00	28.83	.00	.000	.7	5996.10	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .000

STATUS: Analyzing cross-section reach 16171.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6003.30
 Right Overbank Elevation (ft, RBEL) 6003.30

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR

PROJECT NUMBER : 67.42167.08

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SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16171.000	.000	.013	.000	5.92	6001.21	6004.37	.00
.012372	125	125	125	6013.15	11.94	1.63	.00
2.90	0	88	0	.00	6003.30	6003.30	8
2440	0	2439	0	23.7	105.13	128.87	14
.01	.00	27.73	.00	.000	.8	5995.30	0

STATUS: Analyzing cross-section reach 16139.000.

STATUS: Water surface elevation set by X5 card, 6005.920 ft MSL.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .58

16139.000	.040	.013	.040	8.56	6003.17	6003.25	.00
.004223	32	32	32	6006.96	3.79	.22	.00
2.99	3	155	0	.00	6002.60	6002.60	0
2440	3	2435	0	32.8	147.55	180.36	14
.02	1.14	15.64	1.03	.000	.8	5994.60	0

STATUS: Analyzing cross-section reach 16010.000.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	6000.48
Right Overbank Elevation (ft, RBEL)	6000.48

16010.000	.000	.013	.000	6.95	5999.43	6001.07	.00
.007974	129	129	129	6005.54	6.10	.73	.69
3.41	0	123	0	.00	6000.48	6000.48	6
2440	0	2440	0	17.7	115.38	133.94	5
.02	.00	19.82	.00	.000	.8	5992.48	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR

PROJECT NUMBER : 67.42167.08

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STATUS: Analyzing cross-section reach 15978.000.

STATUS: Water surface elevation set by X5 card, 5998.420 ft MSL.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	6000.37
Right Overbank Elevation (ft, RBEL)	6000.37

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15978.000	.000	.013	.000	6.55	5998.42	6001.01	.00
.007977	32	32	32	6007.02	8.60	.26	.75
3.49	0	103	0	.00	6000.37	6000.37	0
2440	0	2440	0	25.7	104.93	130.58	11
.02	.00	23.54	.00	.000	.9	5991.87	0

STATUS: Analyzing cross-section reach 15800.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5998.95
Right Overbank Elevation (ft, RBEL)	5998.95

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15800.000	.000	.013	.000	6.54	5996.99	5999.58	.00
.007996	180	178	176	6005.60	8.60	1.42	.00
3.91	0	103	0	.00	5998.90	5998.95	16
2440	0	2440	0	25.7	102.88	128.60	11
.02	.00	23.54	.00	.000	1.0	5990.45	0

STATUS: Analyzing cross-section reach 15600.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5997.35
Right Overbank Elevation (ft, RBEL)	5997.35

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR

PROJECT NUMBER : 67.42167.08

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SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15600.000	.000	.013	.000	6.54	5995.39	5997.99	.00
.007966	209	199	191	6004.00	8.61	1.59	.00
4.39	0	103	0	.00	5997.30	5997.35	11
2440	0	2440	0	25.6	102.83	128.40	11
.02	.00	23.55	.00	.000	1.1	5988.85	0

STATUS: Analyzing cross-section reach 15400.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5995.75
Right Overbank Elevation (ft, RBEL)	5995.75

15400.000	.000	.013	.000	6.55	5993.80	5996.41	.00
.007987	206	200	194	6002.41	8.61	1.60	.00
4.86	0	103	0	.00	5995.75	5995.75	11
2440	0	2440	0	25.7	104.93	130.58	11
.02	.00	23.55	.00	.000	1.2	5987.25	0

STATUS: Analyzing cross-section reach 15000.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5992.55
Right Overbank Elevation (ft, RBEL)	5992.55

15000.000	.000	.013	.000	6.55	5990.60	5993.20	.00
.007986	400	400	400	5999.21	8.61	3.19	.00
5.82	0	103	0	.00	5992.55	5992.55	9
2440	0	2440	0	25.6	104.93	130.58	11
.03	.00	23.55	.00	.000	1.4	5984.05	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 14650.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5990.16
 Right Overbank Elevation (ft, RBEL) 5990.16

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14650.000	.000	.013	.000	6.73	5988.39	5991.11	.00
.007007	350	350	350	5996.19	7.80	2.62	.41
6.67	0	108	0	.00	5990.16	5990.10	7
2440	0	2440	0	26.3	149.26	175.59	14
.03	.00	22.41	.00	.000	1.6	5981.66	0

STATUS: Analyzing cross-section reach 14606.000.

STATUS: Water surface elevation set by X5 card, 5994.120 ft MSL.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .41

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

14606.000	.016	.013	.016	9.96	5991.16	5991.26	.00
.001177	48	48	48	5993.22	2.06	.11	2.87
6.87	43	187	20	.00	5989.28	5989.28	0
2440	133	2242	63	87.5	170.25	257.73	18
.03	3.06	11.99	3.05	.000	1.7	5981.20	0

STATUS: Analyzing cross-section reach 14317.000.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 2.96

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR

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STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5988.00
Right Overbank Elevation (ft, RBEL)	5988.00

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14317.000	.000	.013	.000	6.16	5983.33	5985.54	.00
.010279	302	302	302	5990.81	7.48	.79	1.62
8.13	0	111	0	.00	5988.00	5988.00	5
2440	0	2440	0	18.1	177.51	196.42	9
.04	.00	21.94	.00	.000	2.1	5977.17	0

Contraction Coefficient (CCHV)	.300
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Expansion Coefficient (CEHV)	.500
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STATUS: Analyzing cross-section reach 14285.000.

STATUS: Water surface elevation set by X5 card, 5980.510 ft MSL.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO)	2.14
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STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	.00
Right Encroachment Station (ft, STENCR)	191.36
Encroachment Method (TYPE)	1
Width or Percent Target	191.359

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5984.66
Right Overbank Elevation (ft, RBEL)	5984.66

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRISW	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14285.000	.000	.013	.000	3.91	5980.51	5986.10	.00
.047072	33	32	36	6012.13	31.62	.62	7.24
8.19	0	54	0	.00	5984.66	5984.66	0
2440	0	2439	0	19.7	163.53	183.18	16
.04	.00	45.12	.00	.000	2.1	5976.60	0

STATUS: Analyzing cross-section reach 14217.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)							5981.33
Right Overbank Elevation (ft, RBEL)							5981.33
14217.000	.000	.013	.000	3.90	5977.23	5982.01	.00
.047242	68	68	94	6008.87	31.64	3.24	.01
8.27	0	54	0	.00	5981.33	5981.33	19
2440	0	2439	0	19.7	108.15	127.86	17
.04	.00	45.14	.00	.000	2.1	5973.33	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .300

STATUS: Analyzing cross-section reach 14193.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .45

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)							5980.62
Right Overbank Elevation (ft, RBEL)							5980.62
14193.000	.000	.013	.000	4.75	5977.38	5982.28	.00
.026536	123	124	125	6003.05	25.67	4.04	1.79
8.50	0	100	0	.00	5980.62	5980.62	8
4087	0	4086	0	28.3	106.87	135.14	17
.04	.00	40.66	.00	.000	2.2	5972.62	0

STATUS: Analyzing cross-section reach 13706.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5977.42
 Right Overbank Elevation (ft, RBEL) 5977.42

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13706.000	.000	.013	.000	5.42	5974.84	5979.04	.00
.016249	392	385	380	5992.87	18.03	7.88	2.29
9.47	0	119	0	.00	5977.42	5977.42	7
4087	0	4086	0	30.3	105.87	136.13	17
.04	.00	34.07	.00	.000	2.4	5969.42	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .300

STATUS: Analyzing cross-section reach 13570.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5977.25
 Right Overbank Elevation (ft, RBEL) 5977.25

13570.000	.000	.013	.000	5.81	5974.06	5978.24	.00
.013596	135	135	134	5990.34	16.27	2.01	.53
9.85	0	126	0	.00	5977.25	5977.25	9
4087	0	4086	0	29.5	106.26	135.74	14
.04	.00	32.37	.00	.000	2.5	5968.25	0

STATUS: Analyzing cross-section reach 13525.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5976.42
 Right Overbank Elevation (ft, RBEL) 5976.42

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

13525.000	.000	.013	.000	6.38	5973.80	5978.36	.00
.012766	40	40	40	5989.69	15.89	.53	.11
9.97	0	127	0	.00	5976.42	5976.40	8
4087	0	4086	0	20.0	100.99	121.01	14
.04	.00	31.99	.00	.000	2.6	5967.42	0

STATUS: Analyzing cross-section reach 13405.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5975.43
Right Overbank Elevation (ft, RBEL)	5975.43

13405.000	.000	.013	.000	6.56	5972.99	5978.65	.00
.011695	116	120	123	5987.94	14.95	1.47	.28
10.33	0	131	0	.00	5975.43	5975.43	9
4087	0	4086	0	20.1	164.09	184.23	15
.05	.00	31.03	.00	.000	2.6	5966.43	0

STATUS: Analyzing cross-section reach 13280.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5974.39
Right Overbank Elevation (ft, RBEL)	5974.40

13280.000	.000	.013	.000	6.72	5972.11	5976.92	.00
.010898	119	124	129	5986.32	14.21	1.40	.22
10.71	0	135	0	.00	5974.39	5974.40	5
4087	0	4086	0	20.2	175.44	195.61	15
.05	.00	30.25	.00	.000	2.7	5965.39	0

STATUS: Analyzing cross-section reach 13205.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5972.95
Right Overbank Elevation (ft, RBEL)	5972.95

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SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRISW	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

13205.000	.000	.013	.000	6.91	5970.86	5975.99	.00
.011136	78	75	73	5985.39	14.53	.83	.10
10.94	0	133	0	.00	5972.95	5972.95	8
4087	0	4086	0	19.4	209.61	229.03	15
.05	.00	30.59	.00	.000	2.7	5963.95	0

STATUS: Analyzing cross-section reach 13105.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5971.03
Right Overbank Elevation (ft, RBEL)	5971.03

13105.000	.000	.013	.000	6.60	5968.63	5973.86	.00
.012083	103	99	90	5983.99	15.36	1.15	.25
11.24	0	129	0	.00	5971.03	5971.03	10
4087	0	4086	0	19.8	188.31	208.08	19
.05	.00	31.45	.00	.000	2.8	5962.03	0

STATUS: Analyzing cross-section reach 13036.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5969.67
Right Overbank Elevation (ft, RBEL)	5969.67

13036.000	.000	.013	.000	6.41	5967.01	5971.56	.00
.012817	72	69	67	5982.95	15.94	.87	.17
11.45	0	127	0	.00	5969.67	5969.67	11
4087	0	4086	0	20.0	100.99	121.01	14
.05	.00	32.04	.00	.000	2.8	5960.60	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 13000.000.

10/19/1998

STATUS: (3301) The velocity head difference for current and previous
 cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.65

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5964.75
 Right Overbank Elevation (ft, RBEL) 5964.75

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13000.000	.000	.013	.000	2.46	5962.21	5965.52	.00
.035013	39	37	39	5981.27	19.06	.74	.94
11.55	0	116	0	.00	5964.70	5964.75	17
4087	0	4086	0	54.8	107.55	162.40	11
.05	.00	35.04	.00	.000	2.8	5959.75	0

SPECIAL NOTE :

An asterisk (*) to the left of the cross-section number indicates a special note is present in the SUMMARY OF WARNING AND STATUS MESSAGES section.

SUMMARY PRINTOUT TABLE 150 : PETERSON FIELD DRAINAGE BASIN LOMR
 ----- SECT.13000/17150 SPRCRIT/HECSP4E3.DAT
 67.42167.08

Cross- Section Number	Channel Reach Length (ft)	Top of Roadway Elevation (ft MSL)	Max. Low Chord Elevation (ft MSL)	Minimum C. S. Elevation (ft MSL)	Discharge Flow (cfs)	Computed W. S. Elevation (ft MSL)	Critical W. S. Elevation (ft MSL)	Energy Gradient Elevation (ft MSL)	Energy Gradient Slope * 10,000 10K*S	Channel Mean Flow Velocity (ft/s)	Cross- Section Area (sq ft)	Index Q (0.01 * Convey.) .01K
SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG		VCH	AREA	
17510.000	.00	.00	.00	6013.51	360.00	6016.30	6017.08	6018.79	57.36	12.67	28.42	47.53
17510.000	.00	.00	.00	6013.51	820.00	6017.73	6018.95	6021.58	57.42	15.75	52.05	108.22
17510.000	.00	.00	.00	6013.51	1470.00	6019.11	6020.75	6024.27	56.73	18.22	80.67	195.17
17510.000	.00	.00	.00	6013.51	2440.00	6020.57	6022.66	6027.30	57.49	20.82	117.17	321.79
17383.000	128.54	.00	.00	6012.75	360.00	6015.53	6016.31	6018.05	58.29	12.74	28.26	47.15
17383.000	128.54	.00	.00	6012.75	820.00	6016.96	6018.19	6020.84	58.03	15.82	51.85	107.65
17383.000	128.54	.00	.00	6012.75	1470.00	6018.33	6020.00	6023.53	57.34	18.30	80.34	194.13
17383.000	128.54	.00	.00	6012.75	2440.00	6019.80	6021.83	6026.56	57.84	20.87	116.90	320.83
* 17375.000	5.00	.00	.00	6010.75	360.00	6012.91	6014.31	6018.00	153.71	18.11	19.88	29.04
* 17375.000	5.00	.00	.00	6010.75	820.00	6014.29	6016.19	6020.80	116.72	20.47	40.05	75.90
17375.000	5.00	.00	.00	6010.75	1470.00	6015.65	6018.00	6023.50	99.72	22.48	65.39	147.21
17375.000	5.00	.00	.00	6010.75	2440.00	6017.13	6019.83	6026.53	89.77	24.60	99.20	257.53
17178.000	195.78	.00	.00	6009.50	360.00	6011.93	6013.06	6015.62	98.58	15.42	23.34	36.26
17178.000	195.78	.00	.00	6009.50	820.00	6013.25	6014.94	6018.77	93.20	18.84	43.52	84.94
17178.000	195.78	.00	.00	6009.50	1470.00	6014.56	6016.75	6021.67	87.31	21.40	68.70	157.32
17178.000	195.78	.00	.00	6009.50	2440.00	6016.00	6018.62	6024.84	82.74	23.86	102.26	268.24
17174.000	4.00	.00	.00	6008.50	360.00	6010.69	6012.08	6015.58	145.26	17.74	20.29	29.87
17174.000	4.00	.00	.00	6008.50	820.00	6012.01	6013.97	6018.72	121.73	20.79	39.44	74.32
17174.000	4.00	.00	.00	6008.50	1470.00	6013.31	6015.78	6021.63	107.90	23.15	63.51	141.52
17174.000	4.00	.00	.00	6008.50	2440.00	6014.74	6017.61	6024.80	98.41	25.46	95.85	245.96
16928.000	242.00	.00	.00	6006.95	360.00	6009.44	6010.51	6012.87	88.87	14.85	24.24	38.19
16928.000	242.00	.00	.00	6006.95	820.00	6010.71	6012.39	6016.17	92.04	18.76	43.72	85.47
16928.000	242.00	.00	.00	6006.95	1470.00	6011.98	6014.19	6019.25	90.05	21.64	67.92	154.91
16928.000	242.00	.00	.00	6006.95	2440.00	6013.37	6016.08	6022.56	87.17	24.33	100.29	261.35
* 16920.000	8.00	.00	.00	6004.95	360.00	6007.02	6008.53	6012.77	182.01	19.24	18.71	26.68

10/19/1998

Cross- Section Number	Channel Reach Length (ft)	Top of Roadway Elevation (ft MSL)	Max. Low Chord Elevation (ft MSL)	Minimum C. S. Elevation (ft MSL)	Discharge Flow (cfs)	Computed W. S. Elevation (ft MSL)	Critical W. S. Elevation (ft MSL)	Energy Gradient Elevation (ft MSL)	Energy Gradient Slope * 10,000	Channel Mean Flow Velocity (ft/s)	Cross- Section Area (sq ft)	Index Q (0.01 * Convey.)
SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
16920.000	8.00	.00	.00	6004.95	820.00	6008.28	6010.42	6016.08	149.43	22.42	36.58	67.08
16920.000	8.00	.00	.00	6004.95	1470.00	6009.53	6012.23	6019.17	131.42	24.91	59.02	128.23
16920.000	8.00	.00	.00	6004.95	2440.00	6010.94	6014.07	6022.48	118.36	27.27	89.47	224.28
16728.000	192.00	.00	.00	6003.72	360.00	6006.07	6007.28	6010.09	110.58	16.08	22.39	34.23
16728.000	192.00	.00	.00	6003.72	820.00	6007.30	6009.16	6013.61	111.96	20.16	40.67	77.50
16728.000	192.00	.00	.00	6003.72	1470.00	6008.52	6010.96	6016.88	108.54	23.20	63.37	141.10
16728.000	192.00	.00	.00	6003.72~	2440.00	6009.89	6012.79	6020.36	103.83	25.97	93.95	239.46
16720.000	8.00	.00	.00	6001.72	360.00	6003.72	6005.28	6009.97	204.52	20.07	17.94	25.17
16720.000	8.00	.00	.00	6001.72	820.00	6004.95	6007.16	6013.50	169.40	23.48	34.93	63.00
16720.000	8.00	.00	.00	6001.72	1470.00	6006.16	6008.96	6016.78	149.86	26.15	56.22	120.08
16720.000	8.00	.00	.00	6001.72	2440.00	6007.51	6010.79	6020.26	135.16	28.65	85.15	209.88
16516.000	204.00	.00	.00	6000.41	360.00	6002.73	6003.98	6006.89	116.04	16.36	22.00	33.42
16516.000	204.00	.00	.00	6000.41	820.00	6003.92	6005.85	6010.60	120.99	20.74	39.53	74.55
16516.000	204.00	.00	.00	6000.41	1470.00	6005.11	6007.66	6014.06	119.09	24.01	61.22	134.70
16516.000	204.00	.00	.00	6000.41	2440.00	6006.43	6009.48	6017.73	114.90	26.97	90.47	227.63
16508.000	8.00	.00	.00	5998.41	360.00	6000.39	6001.97	6006.77	210.00	20.26	17.77	24.84
16508.000	8.00	.00	.00	5998.41	820.00	6001.59	6003.85	6010.49	178.60	23.94	34.26	61.36
16508.000	8.00	.00	.00	5998.41	1470.00	6002.77	6005.66	6013.95	160.62	26.83	54.79	115.99
16508.000	8.00	.00	.00	5998.41	2440.00	6004.10	6007.49	6017.62	146.28	29.51	82.68	201.74
16303.000	205.00	.00	.00	5997.10	360.00	5999.41	6000.67	6003.61	117.63	16.44	21.90	33.19
16303.000	205.00	.00	.00	5997.10	820.00	6000.58	6002.54	6007.44	125.45	21.02	39.01	73.21
16303.000	205.00	.00	.00	5997.10	1470.00	6001.74	6004.35	6011.05	125.57	24.49	60.03	131.18
16303.000	205.00	.00	.00	5997.10	2440.00	6003.03	6006.17	6014.88	122.50	27.62	88.33	220.45
16295.000	8.00	.00	.00	5996.10	360.00	5998.22	5999.66	6003.50	161.52	18.43	19.53	28.33
16295.000	8.00	.00	.00	5996.10	820.00	5999.41	6001.54	6007.33	152.42	22.58	36.31	66.42
16295.000	8.00	.00	.00	5996.10	1470.00	6000.57	6003.35	6010.94	145.14	25.84	56.89	122.02
16295.000	8.00	.00	.00	5996.10	2440.00	6001.87	6005.17	6014.78	137.42	28.83	84.63	208.15
16171.000	125.00	.00	.00	5995.30	360.00	5997.62	5998.86	6001.79	116.88	16.40	21.95	33.30
16171.000	125.00	.00	.00	5995.30	820.00	5998.79	6000.74	6005.61	124.48	20.96	39.12	73.50
16171.000	125.00	.00	.00	5995.30	1470.00	5999.93	6002.55	6009.26	125.78	24.50	59.99	131.07
16171.000	125.00	.00	.00	5995.30	2440.00	6001.21	6004.37	6013.15	123.72	27.73	88.01	219.36
* 16139.000	32.00	.00	.00	5994.60	360.00	5996.87	5996.90	5998.06	33.70	8.75	41.16	62.02
* 16139.000	32.00	.00	.00	5994.60	820.00	5998.55	5998.59	6000.59	37.18	11.46	71.52	134.48
* 16139.000	32.00	.00	.00	5994.60	1470.00	6000.41	6000.47	6003.44	42.97	13.97	105.24	224.26
* 16139.000	32.00	.00	.00	5994.60	2440.00	6003.17	6003.25	6006.96	42.23	15.64	159.87	375.46

Cross- Section Number	Channel Reach Length (ft)	Top of Roadway Elevation (ft MSL)	Max. Low Chord Elevation (ft MSL)	Minimum C. S. Elevation (ft MSL)	Discharge Flow (cfs)	Computed W. S. Elevation (ft MSL)	Critical W. S. Elevation (ft MSL)	Energy Gradient Elevation (ft MSL)	Energy Gradient Slope * 10,000	Channel Mean Flow Velocity (ft/s)	Cross- Section Area (sq ft)	Index Q (0.01 * Convey.)
SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRISWS	EG	10K*S	VCH	AREA	.01K
* 16010.000	129.00	.00	.00	5992.48	360.00	5993.99	5994.81	5996.83	119.45	13.50	26.66	32.94
* 16010.000	129.00	.00	.00	5992.48	820.00	5995.39	5996.52	5999.31	91.07	15.89	51.61	85.93
16010.000	129.00	.00	.00	5992.48	1470.00	5997.11	5998.44	6002.10	82.82	17.93	81.97	161.53
16010.000	129.00	.00	.00	5992.48	2440.00	5999.43	6001.07	6005.54	79.74	19.82	123.10	273.24
* 15978.000	32.00	.00	.00	5991.87	360.00	5994.43	5995.44	5997.60	79.88	14.29	25.20	40.28
* 15978.000	32.00	.00	.00	5991.87	820.00	5995.75	5997.33	6000.71	80.83	17.88	45.87	91.21
* 15978.000	32.00	.00	.00	5991.87	1470.00	5997.03	5999.11	6003.70	80.22	20.73	70.91	164.13
* 15978.000	32.00	.00	.00	5991.87	2440.00	5998.42	6001.01	6007.02	79.77	23.54	103.67	273.19
15800.000	178.33	.00	.00	5990.45	360.00	5993.01	5994.02	5996.17	79.89	14.28	25.21	40.28
15800.000	178.33	.00	.00	5990.45	820.00	5994.33	5995.91	5999.26	80.33	17.83	46.00	91.49
15800.000	178.33	.00	.00	5990.45	1470.00	5995.60	5997.72	6002.27	80.28	20.72	70.93	164.06
15800.000	178.33	.00	.00	5990.45	2440.00	5996.99	5999.58	6005.60	79.96	23.54	103.66	272.87
15600.000	199.59	.00	.00	5988.85	360.00	5991.41	5992.41	5994.58	79.97	14.29	25.19	40.26
15600.000	199.59	.00	.00	5988.85	820.00	5992.74	5994.29	5997.66	79.71	17.80	46.08	91.84
15600.000	199.59	.00	.00	5988.85	1470.00	5994.00	5996.11	6000.67	79.97	20.73	70.93	164.38
15600.000	199.59	.00	.00	5988.85	2440.00	5995.39	5997.99	6004.00	79.66	23.55	103.63	273.38
15400.000	200.00	.00	.00	5987.25	360.00	5989.80	5990.82	5992.98	80.05	14.30	25.18	40.24
15400.000	200.00	.00	.00	5987.25	820.00	5991.14	5992.71	5996.06	79.89	17.80	46.07	91.74
15400.000	200.00	.00	.00	5987.25	1470.00	5992.40	5994.52	5999.07	80.03	20.71	70.97	164.32
15400.000	200.00	.00	.00	5987.25	2440.00	5993.80	5996.41	6002.41	79.87	23.55	103.62	273.01
15000.000	400.00	.00	.00	5984.05	360.00	5986.60	5987.62	5989.77	80.05	14.30	25.18	40.24
15000.000	400.00	.00	.00	5984.05	820.00	5987.95	5989.51	5992.86	79.75	17.79	46.10	91.82
15000.000	400.00	.00	.00	5984.05	1470.00	5989.23	5991.32	5995.86	79.56	20.67	71.12	164.80
15000.000	400.00	.00	.00	5984.05	2440.00	5990.60	5993.20	5999.21	79.86	23.55	103.63	273.04
14650.000	350.00	.00	.00	5981.66	360.00	5984.38	5985.23	5987.04	63.04	13.10	27.48	45.34
14650.000	350.00	.00	.00	5981.66	820.00	5985.72	5987.11	5990.01	66.49	16.62	49.33	100.56
14650.000	350.00	.00	.00	5981.66	1470.00	5987.01	5988.92	5992.92	68.31	19.52	75.33	177.86
14650.000	350.00	.00	.00	5981.66	2440.00	5988.39	5991.11	5996.19	70.07	22.41	108.89	291.49
* 14606.000	48.28	.00	.00	5981.20	360.00	5983.48	5983.50	5984.64	26.43	8.63	41.69	70.02
* 14606.000	48.28	.00	.00	5981.20	820.00	5985.11	5985.15	5987.10	25.74	11.30	72.56	161.64
* 14606.000	48.28	.00	.00	5981.20	1470.00	5986.93	5986.98	5989.86	26.95	13.75	106.88	283.14
* 14606.000	48.28	.00	.00	5981.20	2440.00	5991.16	5991.26	5993.22	11.77	11.99	251.57	711.22
* 14317.000	302.00	.00	.00	5977.17	360.00	5978.46	5979.48	5982.19	183.32	15.50	23.23	26.59
* 14317.000	302.00	.00	.00	5977.17	820.00	5979.70	5981.17	5984.70	129.35	17.95	45.69	72.10
* 14317.000	302.00	.00	.00	5977.17	1470.00	5981.26	5983.06	5987.43	110.12	19.95	73.70	140.08
* 14317.000	302.00	.00	.00	5977.17	2440.00	5983.33	5985.54	5990.81	102.79	21.94	111.19	240.67

Cross- Section Number	Channel Reach Length (ft)	Top of Roadway Elevation (ft MSL)	Max. Low Chord Elevation (ft MSL)	Minimum C. S. Elevation (ft MSL)	Discharge Flow (cfs)	Computed W. S. Elevation (ft MSL)	Critical W. S. Elevation (ft MSL)	Energy Gradient Elevation (ft MSL)	Energy Gradient Slope * 10,000	Channel Mean Flow Velocity (ft/s)	Cross- Section Area (sq ft)	Index Q (0.01 * Convey.)
SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
* 14285.000	32.38	.00	.00	5976.60	360.00	5977.98	5979.82	5988.41	468.96	25.92	13.89	16.62
* 14285.000	32.38	.00	.00	5976.60	820.00	5978.78	5981.63	5996.13	476.68	33.42	24.53	37.56
* 14285.000	32.38	.00	.00	5976.60	1470.00	5979.60	5983.39	6003.55	470.33	39.27	37.43	67.78
* 14285.000	32.38	.00	.00	5976.60	2440.00	5980.51	5986.10	6012.13	470.72	45.12	54.07	112.46
14217.000	68.79	.00	.00	5973.33	360.00	5974.70	5976.55	5985.17	471.73	25.96	13.87	16.58
14217.000	68.79	.00	.00	5973.33	820.00	5975.51	5978.35	5992.84	476.94	33.41	24.55	37.55
14217.000	68.79	.00	.00	5973.33	1470.00	5976.33	5980.11	6000.30	471.95	39.29	37.41	67.67
14217.000	68.79	.00	.00	5973.33	2440.00	5977.23	5982.01	6008.87	472.42	45.14	54.05	112.26
* 14193.000	124.95	.00	.00	5972.62	600.00	5974.40	5976.00	5980.75	189.92	20.21	29.69	43.54
* 14193.000	124.95	.00	.00	5972.62	1370.00	5975.32	5978.06	5987.64	233.16	28.17	48.64	89.72
* 14193.000	124.95	.00	.00	5972.62	2470.00	5976.30	5980.14	5994.78	251.00	34.49	71.61	155.91
* 14193.000	124.95	.00	.00	5972.62	4087.00	5977.38	5982.28	6003.05	265.36	40.66	100.52	250.89
* 13706.000	385.24	.00	.00	5969.42	600.00	5971.69	5972.80	5975.30	82.75	15.25	39.35	65.96
* 13706.000	385.24	.00	.00	5969.42	1370.00	5972.73	5974.85	5980.13	112.21	21.83	62.76	129.33
13706.000	385.24	.00	.00	5969.42	2470.00	5973.74	5976.92	5985.84	138.29	27.91	88.50	210.04
13706.000	385.24	.00	.00	5969.42	4087.00	5974.84	5979.04	5992.87	162.49	34.07	119.94	320.62
13570.000	135.58	.00	.00	5968.25	600.00	5970.55	5971.66	5974.18	81.04	15.29	39.24	66.65
13570.000	135.58	.00	.00	5968.25	1370.00	5971.76	5973.78	5978.54	96.01	20.91	65.53	139.82
13570.000	135.58	.00	.00	5968.25	2470.00	5972.86	5975.93	5983.78	115.57	26.51	93.17	229.76
13570.000	135.58	.00	.00	5968.25	4087.00	5974.06	5978.24	5990.34	135.96	32.37	126.25	350.51
13525.000	40.00	.00	.00	5967.42	600.00	5969.21	5970.44	5973.57	123.13	16.75	35.81	54.07
13525.000	40.00	.00	.00	5967.42	1370.00	5970.56	5972.68	5977.95	114.03	21.82	62.80	128.29
13525.000	40.00	.00	.00	5967.42	2470.00	5972.02	5975.18	5983.22	119.55	26.86	91.97	225.90
13525.000	40.00	.00	.00	5967.42	4087.00	5973.80	5978.36	5989.69	127.66	31.99	127.76	361.73
13405.000	120.36	.00	.00	5966.43	600.00	5968.37	5969.45	5972.07	95.33	15.44	38.86	61.45
13405.000	120.36	.00	.00	5966.43	1370.00	5969.71	5971.67	5976.48	99.79	20.88	65.63	137.14
13405.000	120.36	.00	.00	5966.43	2470.00	5971.18	5974.19	5981.63	107.96	25.94	95.21	237.72
13405.000	120.36	.00	.00	5966.43	4087.00	5972.99	5978.65	5987.94	116.95	31.03	131.72	377.92
13280.000	124.07	.00	.00	5965.39	600.00	5967.39	5968.41	5970.88	87.26	15.00	40.00	64.23
13280.000	124.07	.00	.00	5965.39	1370.00	5968.75	5970.62	5975.18	92.64	20.36	67.30	142.34
13280.000	124.07	.00	.00	5965.39	2470.00	5970.26	5973.13	5980.18	100.23	25.28	97.70	246.71
13280.000	124.07	.00	.00	5965.39	4087.00	5972.11	5976.92	5986.32	108.98	30.25	135.10	391.50
13205.000	75.52	.00	.00	5963.95	600.00	5965.86	5967.05	5969.97	108.15	16.25	36.91	57.70
13205.000	75.52	.00	.00	5963.95	1370.00	5967.30	5969.32	5974.28	102.13	21.21	64.58	135.56
13205.000	75.52	.00	.00	5963.95	2470.00	5968.90	5971.90	5979.27	105.03	25.85	95.56	241.02
13205.000	75.52	.00	.00	5963.95	4087.00	5970.86	5975.99	5985.39	111.36	30.59	133.59	387.29

Cross- Section Number	Channel Reach Length (ft)	Top of Roadway Elevation (ft MSL)	Max. Low Chord Elevation (ft MSL)	Minimum C. S. Elevation (ft MSL)	Discharge Flow (cfs)	Computed W. S. Elevation (ft MSL)	Critical W. S. Elevation (ft MSL)	Energy Gradient Elevation (ft MSL)	Energy Gradient Slope * 10,000 10K*S	Channel Mean Flow Velocity (ft/s)	Cross- Section Area (sq ft)	Index Q (0.01 * Convey.) .01K
SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG		VCH	AREA	
13105.000	99.51	.00	.00	5962.03	600.00	5963.76	5965.09	5968.54	139.76	17.55	34.19	50.75
13105.000	99.51	.00	.00	5962.03	1370.00	5965.13	5967.34	5972.93	122.07	22.42	61.12	124.00
13105.000	99.51	.00	.00	5962.03	2470.00	5966.69	5969.88	5977.91	118.58	26.88	91.90	226.82
13105.000	99.51	.00	.00	5962.03	4087.00	5968.63	5973.86	5983.99	120.83	31.45	129.96	371.81
13036.000	69.75	.00	.00	5960.60	600.00	5962.29	5963.65	5967.41	158.23	18.15	33.05	47.70
13036.000	69.75	.00	.00	5960.60	1370.00	5963.60	5965.88	5971.89	135.48	23.10	59.31	117.70
13036.000	69.75	.00	.00	5960.60	2470.00	5965.13	5968.40	5976.89	128.34	27.52	89.75	218.03
13036.000	69.75	.00	.00	5960.60	4087.00	5967.01	5971.56	5982.95	128.17	32.04	127.57	361.00
* 13000.000	37.09	.00	.00	5959.75	600.00	5960.48	5961.57	5966.27	463.16	19.31	31.07	27.88
* 13000.000	37.09	.00	.00	5959.75	1370.00	5961.00	5962.81	5970.67	398.47	24.96	54.89	68.63
* 13000.000	37.09	.00	.00	5959.75	2470.00	5961.56	5964.12	5975.48	366.66	29.95	82.48	128.99
* 13000.000	37.09	.00	.00	5959.75	4087.00	5962.21	5965.52	5981.27	350.13	35.04	116.65	218.42

SUMMARY PRINTOUT TABLE 150 : PETERSON FIELD DRAINAGE BASIN LOMR
 ----- SECT.13000/17150 SPRCRIT/HECSP4E3.DAT
 67.42167.08

Cross- Section Number	Discharge Flow (cfs)	Computed W. S. Elevation (ft MSL)	W.S. Elev Diff per Profile (ft)	W.S. Elev Diff per Section (ft)	W.S. Elev Diff per Know/Comp (ft)	Water Surface Top Width (ft)	Channel Reach Length (ft)
SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
17510.000	360.00	6016.30	.00	.00	.00	14.38	.00
17510.000	820.00	6017.73	1.43	.00	.00	18.67	.00
17510.000	1470.00	6019.11	1.38	.00	.00	22.81	.00
17510.000	2440.00	6020.57	1.46	.00	.00	27.19	.00
17383.000	360.00	6015.53	.00	-.77	.00	14.34	128.54
17383.000	820.00	6016.96	1.43	-.77	.00	18.63	128.54
17383.000	1470.00	6018.33	1.38	-.77	.00	22.76	128.54
17383.000	2440.00	6019.80	1.46	-.77	.00	27.16	128.54
* 17375.000	360.00	6012.91	.00	-2.62	.00	12.46	5.00
* 17375.000	820.00	6014.29	1.38	-2.66	.00	16.62	5.00
17375.000	1470.00	6015.65	1.36	-2.69	.00	20.70	5.00
17375.000	2440.00	6017.13	1.48	-2.67	.00	25.12	5.00

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Cross- Section Number	Discharge Flow (cfs) Q	Computed W. S. Elevation (ft MSL) CWSEL	W.S. Elev Diff per Profile (ft) DIFWSP	W.S. Elev Diff per Section (ft) DIFWSX	W.S. Elev Diff per Know/Comp (ft) DIFKWS	Water Surface Top Width (ft) TOPWID	Channel Reach Length (ft) XLCH
SECNO							
17178.000	360.00	6011.93	.00	-.98	.00	13.27	195.78
17178.000	820.00	6013.25	1.32	-1.04	.00	17.24	195.78
17178.000	1470.00	6014.56	1.31	-1.09	.00	21.17	195.78
17178.000	2440.00	6016.00	1.44	-1.13	.00	25.49	195.78
17174.000	360.00	6010.69	.00	-1.24	.00	12.56	4.00
17174.000	820.00	6012.01	1.32	-1.24	.00	16.51	4.00
17174.000	1470.00	6013.31	1.30	-1.25	.00	20.42	4.00
17174.000	2440.00	6014.74	1.43	-1.26	.00	24.72	4.00
16928.000	360.00	6009.44	.00	-1.25	.00	13.47	242.00
16928.000	820.00	6010.71	1.27	-1.30	.00	17.27	242.00
16928.000	1470.00	6011.98	1.27	-1.33	.00	21.06	242.00
16928.000	2440.00	6013.37	1.39	-1.37	.00	25.25	242.00
* 16920.000	360.00	6007.02	.00	-2.42	.00	12.18	8.00
16920.000	820.00	6008.28	1.26	-2.43	.00	15.98	8.00
16920.000	1470.00	6009.53	1.26	-2.44	.00	19.75	8.00
16920.000	2440.00	6010.94	1.40	-2.44	.00	23.93	8.00
16728.000	360.00	6006.07	.00	-.95	.00	13.05	192.00
16728.000	820.00	6007.30	1.23	-.98	.00	16.73	192.00
16728.000	1470.00	6008.52	1.22	-1.01	.00	20.40	192.00
16728.000	2440.00	6009.89	1.36	-1.05	.00	24.49	192.00
16720.000	360.00	6003.72	.00	-2.36	.00	11.99	8.00
16720.000	820.00	6004.95	1.23	-2.35	.00	15.67	8.00
16720.000	1470.00	6006.16	1.21	-2.36	.00	19.32	8.00
16720.000	2440.00	6007.51	1.35	-2.37	.00	23.39	8.00
16516.000	360.00	6002.73	.00	-.98	.00	12.96	204.00
16516.000	820.00	6003.92	1.19	-1.02	.00	16.53	204.00
16516.000	1470.00	6005.11	1.19	-1.05	.00	20.08	204.00
16516.000	2440.00	6006.43	1.32	-1.08	.00	24.06	204.00
16508.000	360.00	6000.39	.00	-2.34	.00	11.94	8.00
16508.000	820.00	6001.59	1.20	-2.33	.00	15.54	8.00
16508.000	1470.00	6002.77	1.18	-2.33	.00	19.10	8.00
16508.000	2440.00	6004.10	1.32	-2.33	.00	23.07	8.00
16303.000	360.00	5999.41	.00	-.98	.00	12.94	205.00
16303.000	820.00	6000.58	1.17	-1.01	.00	16.43	205.00
16303.000	1470.00	6001.74	1.16	-1.04	.00	19.90	205.00
16303.000	2440.00	6003.03	1.30	-1.06	.00	23.79	205.00

10/19/1998

Cross- Section Number	Discharge Flow (cfs)	Computed W. S. Elevation (ft MSL)	W.S. Elev Diff per Profile (ft)	W.S. Elev Diff per Section (ft)	W.S. Elev Diff per Know/Comp (ft)	Water Surface Top Width (ft)	Channel Reach Length (ft)
SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
16295.000	360.00	5998.22	.00	-1.19	.00	12.38	8.00
16295.000	820.00	5999.41	1.19	-1.17	.00	15.93	8.00
16295.000	1470.00	6000.57	1.16	-1.16	.00	19.43	8.00
16295.000	2440.00	6001.87	1.30	-1.16	.00	23.32	8.00
16171.000	360.00	5997.62	.00	-.61	.00	12.95	125.00
16171.000	820.00	5998.79	1.17	-.62	.00	16.45	125.00
16171.000	1470.00	5999.93	1.14	-.64	.00	19.90	125.00
16171.000	2440.00	6001.21	1.28	-.66	.00	23.75	125.00
* 16139.000	360.00	5996.87	.00	-.74	.00	18.12	32.00
* 16139.000	820.00	5998.55	1.68	-.24	.00	18.12	32.00
* 16139.000	1470.00	6000.41	1.86	.48	.00	18.12	32.00
* 16139.000	2440.00	6003.17	2.76	1.95	.00	32.82	32.00
* 16010.000	360.00	5993.99	.00	-2.88	.00	17.71	129.00
* 16010.000	820.00	5995.39	1.40	-3.16	.00	17.71	129.00
16010.000	1470.00	5997.11	1.71	-3.30	.00	17.72	129.00
16010.000	2440.00	5999.43	2.33	-3.73	.00	17.73	129.00
* 15978.000	360.00	5994.43	.00	.44	.00	13.68	32.00
* 15978.000	820.00	5995.75	1.32	.36	.00	17.64	32.00
* 15978.000	1470.00	5997.03	1.28	-.08	.00	21.49	32.00
* 15978.000	2440.00	5998.42	1.39	-1.01	.00	25.66	32.00
15800.000	360.00	5993.01	.00	-1.42	.00	13.71	178.33
15800.000	820.00	5994.33	1.32	-1.42	.00	17.70	178.33
15800.000	1470.00	5995.60	1.27	-1.43	.00	21.54	178.33
15800.000	2440.00	5996.99	1.39	-1.43	.00	25.72	178.33
15600.000	360.00	5991.41	.00	-1.60	.00	13.68	199.59
15600.000	820.00	5992.74	1.33	-1.59	.00	17.65	199.59
15600.000	1470.00	5994.00	1.26	-1.60	.00	21.43	199.59
15600.000	2440.00	5995.39	1.39	-1.60	.00	25.57	199.59
15400.000	360.00	5989.80	.00	-1.60	.00	13.68	200.00
15400.000	820.00	5991.14	1.34	-1.60	.00	17.68	200.00
15400.000	1470.00	5992.40	1.26	-1.60	.00	21.49	200.00
15400.000	2440.00	5993.80	1.39	-1.60	.00	25.65	200.00
15000.000	360.00	5986.60	.00	-3.20	.00	13.68	400.00
15000.000	820.00	5987.95	1.35	-3.19	.00	17.68	400.00
15000.000	1470.00	5989.23	1.28	-3.18	.00	21.51	400.00
15000.000	2440.00	5990.60	1.38	-3.19	.00	25.65	400.00

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Cross- Section Number	Discharge Flow (cfs) Q	Computed W. S. Elevation (ft MSL) CWSEL	W.S. Elev Diff per Profile (ft) DIFWSP	W.S. Elev Diff per Section (ft) DIFWSX	W.S. Elev Diff per Know/Comp (ft) DIFKWS	Water Surface Top Width (ft) TOPWID	Channel Reach Length (ft) XLCH
SECNO							
14650.000	360.00	5984.38	.00	-2.22	.00	14.21	350.00
14650.000	820.00	5985.72	1.34	-2.23	.00	18.27	350.00
14650.000	1470.00	5987.01	1.29	-2.22	.00	22.15	350.00
14650.000	2440.00	5988.39	1.38	-2.21	.00	26.33	350.00
* 14606.000	360.00	5983.48	.00	-.90	.00	18.93	48.28
* 14606.000	820.00	5985.11	1.63	-.61	.00	18.93	48.28
* 14606.000	1470.00	5986.93	1.81	-.08	.00	18.93	48.28
* 14606.000	2440.00	5991.16	4.24	2.77	.00	87.49	48.28
* 14317.000	360.00	5978.46	.00	-5.02	.00	18.05	302.00
* 14317.000	820.00	5979.70	1.24	-5.41	.00	18.05	302.00
* 14317.000	1470.00	5981.26	1.55	-5.67	.00	18.06	302.00
* 14317.000	2440.00	5983.33	2.07	-7.83	.00	18.07	302.00
* 14285.000	360.00	5977.98	.00	-.48	.00	12.12	32.38
* 14285.000	820.00	5978.78	.80	-.92	.00	14.50	32.38
* 14285.000	1470.00	5979.60	.82	-1.66	.00	16.94	32.38
* 14285.000	2440.00	5980.51	.91	-2.82	.00	19.65	32.38
14217.000	360.00	5974.70	.00	-3.28	.00	12.13	68.79
14217.000	820.00	5975.51	.81	-3.27	.00	14.54	68.79
14217.000	1470.00	5976.33	.82	-3.27	.00	16.99	68.79
14217.000	2440.00	5977.23	.90	-3.28	.00	19.71	68.79
* 14193.000	600.00	5974.40	.00	-.30	.00	19.35	124.95
* 14193.000	1370.00	5975.32	.91	-.19	.00	22.09	124.95
* 14193.000	2470.00	5976.30	.98	-.03	.00	25.02	124.95
* 14193.000	4087.00	5977.38	1.08	.14	.00	28.27	124.95
* 13706.000	600.00	5971.69	.00	-2.71	.00	20.79	385.24
* 13706.000	1370.00	5972.73	1.05	-2.58	.00	23.93	385.24
13706.000	2470.00	5973.74	1.01	-2.55	.00	26.96	385.24
13706.000	4087.00	5974.84	1.10	-2.53	.00	30.26	385.24
13570.000	600.00	5970.55	.00	-1.14	.00	20.13	135.58
13570.000	1370.00	5971.76	1.20	-.98	.00	23.36	135.58
13570.000	2470.00	5972.86	1.11	-.88	.00	26.32	135.58
13570.000	4087.00	5974.06	1.20	-.78	.00	29.48	135.58
13525.000	600.00	5969.21	.00	-1.34	.00	20.01	40.00
13525.000	1370.00	5970.56	1.35	-1.20	.00	20.01	40.00
13525.000	2470.00	5972.02	1.46	-.84	.00	20.02	40.00
13525.000	4087.00	5973.80	1.78	-.26	.00	20.02	40.00

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Cross- Section Number	Discharge Flow (cfs) Q	Computed W. S. Elevation (ft MSL) CWSEL	W.S. Elev Diff per Profile (ft) DIFWSP	W.S. Elev Diff per Section (ft) DIFWSX	W.S. Elev Diff per Know/Comp (ft) DIFKWS	Water Surface Top Width (ft) TOPWID	Channel Reach Length (ft) XLCH
13405.000	600.00	5968.37	.00	-.84	.00	20.04	120.36
13405.000	1370.00	5969.71	1.34	-.85	.00	20.07	120.36
13405.000	2470.00	5971.18	1.47	-.84	.00	20.11	120.36
13405.000	4087.00	5972.99	1.81	-.81	.00	20.15	120.36
13280.000	600.00	5967.39	.00	-.99	.00	20.07	124.07
13280.000	1370.00	5968.75	1.36	-.96	.00	20.10	124.07
13280.000	2470.00	5970.26	1.51	-.92	.00	20.14	124.07
13280.000	4087.00	5972.11	1.85	-.88	.00	20.18	124.07
13205.000	600.00	5965.86	.00	-1.52	.00	19.30	75.52
13205.000	1370.00	5967.30	1.43	-1.45	.00	19.33	75.52
13205.000	2470.00	5968.90	1.60	-1.36	.00	19.37	75.52
13205.000	4087.00	5970.86	1.96	-1.25	.00	19.41	75.52
13105.000	600.00	5963.76	.00	-2.10	.00	19.67	99.51
13105.000	1370.00	5965.13	1.37	-2.17	.00	19.70	99.51
13105.000	2470.00	5966.69	1.56	-2.20	.00	19.73	99.51
13105.000	4087.00	5968.63	1.94	-2.23	.00	19.78	99.51
13036.000	600.00	5962.29	.00	-1.47	.00	20.00	69.75
13036.000	1370.00	5963.60	1.31	-1.52	.00	20.01	69.75
13036.000	2470.00	5965.13	1.52	-1.57	.00	20.01	69.75
13036.000	4087.00	5967.01	1.88	-1.62	.00	20.01	69.75
* 13000.000	600.00	5960.48	.00	-1.81	.00	44.45	37.09
* 13000.000	1370.00	5961.00	.52	-2.61	.00	47.57	37.09
* 13000.000	2470.00	5961.56	.56	-3.57	.00	50.95	37.09
* 13000.000	4087.00	5962.21	.65	-4.80	.00	54.85	37.09

10/19/1998

SUMMARY OF WARNING AND STATUS MESSAGES :

Section 17375, profile 1, conveyance change outside acceptable range.

Section 17375, profile 2, conveyance change outside acceptable range.

Section 16920, profile 1, conveyance change outside acceptable range.

Section 16139, profile 1, water surface elevation based upon the
X5 card.

Section 16139, profile 1, conveyance change outside acceptable range.

Section 16139, profile 2, water surface elevation based upon the
X5 card.

Section 16139, profile 2, conveyance change outside acceptable range.

Section 16139, profile 3, water surface elevation based upon the
X5 card.

Section 16139, profile 3, conveyance change outside acceptable range.

Section 16139, profile 4, water surface elevation based upon the
X5 card.

Section 16139, profile 4, conveyance change outside acceptable range.

Section 16010, profile 1, conveyance change outside acceptable range.

Section 16010, profile 2, conveyance change outside acceptable range.

Section 15978, profile 1, water surface elevation based upon the
X5 card.

Section 15978, profile 1, minimum specific energy.

Section 15978, profile 2, water surface elevation based upon the
X5 card.

Section 15978, profile 2, minimum specific energy.

Section 15978, profile 3, water surface elevation based upon the
X5 card.

Section 15978, profile 3, minimum specific energy.

Section 15978, profile 4, water surface elevation based upon the
X5 card.

Section 15978, profile 4, minimum specific energy.

Section 14606, profile 1, water surface elevation based upon the
X5 card.

Section 14606, profile 1, conveyance change outside acceptable range.

Section 14606, profile 2, water surface elevation based upon the
X5 card.

Section 14606, profile 2, conveyance change outside acceptable range.

Section 14606, profile 3, water surface elevation based upon the
X5 card.

Section 14606, profile 3, conveyance change outside acceptable range.

Section 14606, profile 4, water surface elevation based upon the
X5 card.

Section 14606, profile 4, minimum specific energy.

Section 14606, profile 4, conveyance change outside acceptable range.

Section 14317, profile 1, conveyance change outside acceptable range.

Section 14317, profile 2, conveyance change outside acceptable range.

Section 14317, profile 3, conveyance change outside acceptable range.

Section 14317, profile 4, conveyance change outside acceptable range.

Section 14285, profile 1, water surface elevation based upon the
X5 card.

Section 14285, profile 1, minimum specific energy.

Section 14285, profile 1, conveyance change outside acceptable range.

Section 14285, profile 2, water surface elevation based upon the
X5 card.

Section 14285, profile 2, minimum specific energy.

Section 14285, profile 2, conveyance change outside acceptable range.

Section 14285, profile 3, water surface elevation based upon the
X5 card.

Section 14285, profile 3, minimum specific energy.

Section 14285, profile 3, conveyance change outside acceptable range.

Section 14285, profile 4, water surface elevation based upon the
X5 card.

Section 14285, profile 4, conveyance change outside acceptable range.

Section 14193, profile 1, conveyance change outside acceptable range.

Section 14193, profile 2, conveyance change outside acceptable range.

Section 14193, profile 3, conveyance change outside acceptable range.

Section 14193, profile 4, conveyance change outside acceptable range.

Section 13706, profile 1, conveyance change outside acceptable range.

Section 13706, profile 2, conveyance change outside acceptable range.

Section 13000, profile 1, conveyance change outside acceptable range.

Section 13000, profile 2, conveyance change outside acceptable range.

Section 13000, profile 3, conveyance change outside acceptable range.

Section 13000, profile 4, conveyance change outside acceptable range.

55 Warning and status message(s) generated

BOSS RMS for AutocAD HEC-2 Analysis version 3.5
 PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR
 PROJECT NUMBER : 67.42167.08

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FLOODWAY INSURANCE ZONE DATA : PETERSON FIELD DRAINAGE BASIN LOMR
 ----- SECT.13000/17150 SPRCRIT/HECSP4E3.DAT
 67.42167.08

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS :

Cross- Section Number	Cumulative Distance (ft)	-----Elevation Difference----- Between Base Flood and		
		10 Year Flood 10% prb.	50 Year Flood 2% prb.	500 Year Flood 0.2% prb.
		(ft)	(ft)	(ft)
17510.000	0.	-2.81	-1.38	1.46
17383.000	129.	-2.81	-1.38	1.46
17375.000	134.	-2.74	-1.36	1.48
17178.000	329.	-2.63	-1.31	1.44
17174.000	333.	-2.63	-1.30	1.43
16928.000	575.	-2.54	-1.27	1.39
16920.000	583.	-2.52	-1.26	1.40
16728.000	775.	-2.45	-1.22	1.36
16720.000	783.	-2.44	-1.21	1.35
16516.000	987.	-2.38	-1.19	1.32
16508.000	995.	-2.38	-1.18	1.32
16303.000	1200.	-2.33	-1.16	1.30
16295.000	1208.	-2.35	-1.16	1.30
16171.000	1333.	-2.31	-1.14	1.28
16139.000	1365.	-3.54	-1.86	2.76
16010.000	1494.	-3.11	-1.71	2.33
15978.000	1526.	-2.60	-1.28	1.39
15800.000	1705.	-2.59	-1.27	1.39
15600.000	1904.	-2.60	-1.26	1.39
15400.000	2104.	-2.60	-1.26	1.39
15000.000	2504.	-2.63	-1.28	1.38
14650.000	2854.	-2.63	-1.29	1.38
14606.000	2903.	-3.44	-1.81	4.24
14317.000	3205.	-2.79	-1.55	2.07
14285.000	3237.	-1.62	-.82	.91
14217.000	3306.	-1.63	-.82	.90
14193.000	3431.	-1.90	-.98	1.08
13706.000	3816.	-2.06	-1.01	1.10
13570.000	3951.	-2.31	-1.11	1.20
13525.000	3991.	-2.81	-1.46	1.78
13405.000	4112.	-2.81	-1.47	1.81
13280.000	4236.	-2.87	-1.51	1.85
13205.000	4311.	-3.03	-1.60	1.96
13105.000	4411.	-2.93	-1.56	1.94
13036.000	4481.	-2.83	-1.52	1.88
13000.000	4518.	-1.08	-.56	.65

BOSS RMS for AutoCAD HEC-2 Analysis version 3.5
PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR
PROJECT NUMBER : 67.42167.08

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Weighted Avg for Reach: -2.56 -1.29 1.56

Flood hazard factor (FHF) is 025 for the reach , with 100.0 percent
of the reach within 1.00 feet. Zone for the reach = A 5.

END OF OUTPUT

FLOODWAY ANALYSIS

SEGMENT 2

5/04/1999

=====
BOSS RMS for AutoCAD (tm)
=====

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Version : 3.5
Serial Number : 23543

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PROGRAM ORIGIN :

BOSS RMS for AutoCAD HEC-2 Analysis is an enhanced version of the U.S.
Army Corps of Engineers Hydrologic Engineering Center HEC-2 program
for water-surface profile computations. Program based upon the September
1990 version, updated on August 1991.

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PROJECT DESCRIPTION :

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR
PROJECT NUMBER : 67.42167.08
DESCRIPTION : SECT.11858/13000/SBCRT/ FWSP4E2.*
ENGINEER : R. SANCHEZ / J. SCHWAB
DATE OF RUN : 5/04/1999
TIME OF RUN : 10:20 am

T1 67.42167.08
 T2 PETERSON FIELD DRAINAGE BASIN LOMR
 T3 SECT.11858/13000/SBCRT/ FWSP4E2.*

JOB PARAMETERS :

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		2						2470	5957	
J2	NPROF	IPLDT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1		-1					-1	-6	

USER-DEFINED SUMMARY TABLES (J3) :

	150	200								
NC	0.04	0.04	0.03							
ET			7.1				609.56	670.01		
X1	11858	12	609.56	670.01						
X3	0							5955.39	5955.39	
GR	5958	100	5956	208.46	5956	292.71	5955.39	609.56	5950.39	624.56
GR	5950.4	655.01	5955.39	670.01	5956	690.22	5958	802.29	5958	805.33
GR	5960	878.95	5960	962.5						
NC	0.04	0.04	0.035		0.5					
ET			7.1				676.95	736.91		
X1	11934	15	676.95	736.91	81.62	85.14	80.76			
X3	0							5955.74	5955.74	
GR	5960	100	5958	148.58	5956	259.89	5956	286.59	5955.74	676.95
GR	5950.7	691.94	5950.7	721.92	5955.74	736.91	5960	807.49	5960	815.88
GR	5960	841.83	5960	854.48	5960	919.76	5962	1310.8	5962	1351.74
NC	0.04	0.04	0.03							
ET			7.1				717.1	787.2		
X1	12030	17	717.1	787.2	105.58	105.58	105.58			
X3	0			648.1	5964.13			5960.38	5960.38	
GR	5962	100	5960	141.87	5960	166.29	5960	328.87	5962.13	628.1
GR	5964.1	648.1	5964.13	656.1	5960.63	672.1	5960.38	717.1	5955.38	732.12
GR	5955.3	772.18	5960.38	787.2	5960	817.04	5962	1168.02	5962	1207.24
GR	5962	1264.81	5962	1301.79						
ET			7.1				585.06	655.07		
X1	12400	13	585.06	655.07	372.08	372.08	372.08			
X3	10							5962	5962	

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GR	5966	100	5964	263.07	5964.5	504.06	5965.75	518.06	5965.75	524.06
GR	5962.2	540.06	5962	585.06	5957	600.06	5957	640.07	5962	655.07
GR	5964	707.19	5966	753.05	5966	756.87				
ET			7.1				428.34	498.49		
X1	12655	11	428.34	498.49	255	255	255			
X3	0							5963.12	5963.12	
GR	5968	100	5966	323.64	5966	334.27	5967.07	361.34	5967.07	367.34
GR	5963.5	383.34	5963.12	428.34	5958.12	443.37	5958.12	483.45	5963.12	498.49
GR	5968	586.64								
NC	0.04	0.04	0.035							
ET			7.1				218.92	298.43		
X1	12910	13	218.92	288.94	258	258	258			
X3	10							5964.31	5964.46	
GR	5968	105	5967.24	143.92	5967.24	151.92	5964.74	173.92	5964.24	218.92
GR	5959.2	233.92	5959.2	273.94	5964.24	288.94	5966	292.43	5968	298.43
GR	5970	347.97	5970	433.84	5970	435.43				
NC					0.5					
ET			7.1				135.29	234.95		
X1	12965	15	135.29	234.95	54.01	54.01	54.01			
X3	10							5970	5970	
GR	5972	100	5970	135.29	5968	141.28	5966	147.27	5964.24	150.03
GR	5959.2	165.03	5959.2	205.04	5964.24	220.04	5966	222.92	5968	228.94
GR	5970	234.95	5970	243.55	5970	262.91	5972	290.24	5972	358.06
NC					0.5					
ET			7.1				118	188		
X1	13000	10	117.89	187.92	34.4	34.4	34.4			
X3	10							5964.75	5964.75	
GR	5972	100	5970	106	5968	111.99	5964.75	117.89	5959.75	132.89
GR	5959.7	172.91	5964.75	187.92	5968	194.01	5970	200.03	5972	253.71

STATUS: Analyzing profile 1.

STATUS: Critical depth to be calculated at all cross-sections.

STATUS: Analyzing cross-section reach 11858.000.

STATUS: Analyzing cross-section reach 12030.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	648.10
Right Encroachment Station (ft, STENCR)	1301.79
Encroachment Method (TYPE)	1
Width or Percent Target	-648.100
Left Encroachment Elevation (ft, ELENCL)	5964.13
Right Encroachment Elevation (ft, ELENCR)	100000.00

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
12030.000	.000	.030	.000	4.38	5959.68	5959.68	.00
.009148	105	105	105	5961.47	1.79	.32	.77
3.04	0	229	0	.00	5960.38	5960.38	0
2470	0	2470	0	65.9	719.21	785.13	19
.01	.00	10.74	.00	.000	1.8	5955.30	0

STATUS: Analyzing cross-section reach 12400.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.61

12400.000	.040	.030	.040	5.53	5962.53	5961.35	.00
.003538	372	372	372	5963.47	.95	2.00	.00
5.45	19	311	3	.00	5962.00	5962.00	2
2470	23	2443	3	130.0	538.63	668.58	5
.02	1.23	7.85	.90	.000	2.7	5957.00	0

STATUS: Analyzing cross-section reach 12655.000.

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SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

12655.000	.040	.030	.040	5.33	5963.45	5962.48	.00
.004138	255	255	255	5964.50	1.05	.97	.05
7.32	6	298	0	.00	5963.12	5963.12	3
2470	4	2464	0	115.4	389.07	504.48	14
.03	.72	8.25	.72	.000	3.4	5958.12	0

STATUS: Analyzing cross-section reach 12910.000.

12910.000	.040	.035	.040	5.49	5964.69	5963.57	.00
.005017	258	258	258	5965.67	.98	1.17	.00
9.17	9	308	0	.00	5964.24	5964.24	3
2470	8	2460	0	111.6	178.27	289.84	12
.04	.98	7.97	.90	.000	4.1	5959.20	0

Contraction Coefficient (CCHV) .000

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 12965.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5970.00
Right Overbank Elevation (ft, RBEL)	5970.00

12965.000	.000	.035	.000	5.88	5965.08	5963.56	.00
.003989	54	54	54	5965.91	.83	.24	.00
9.58	0	337	0	.00	5970.00	5970.00	2
2470	0	2470	0	72.7	148.71	221.42	15
.04	.00	7.32	.00	.000	4.2	5959.20	0

Contraction Coefficient (CCHV) .000

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 13000.000.

13000.000	.040	.035	.040	5.44	5965.14	5964.09	.00
.005327	34	34	34	5966.17	1.02	.16	.10
9.83	0	304	0	.00	5964.75	5964.75	2
2470	0	2469	0	71.5	117.17	188.66	15
.04	.84	8.12	.84	.000	4.2	5959.70	0

T1 67.42167.08

T2 PETERSON FIELD DRAINAGE BASIN LOMR

T3 SECT.11858/13000/SBCRT/ FWSP4E2.*

JOB PARAMETERS :

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		3						2470	5957	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15		-1				-1	-6		

STATUS: Analyzing profile 2.

STATUS: Critical depth to be calculated at all cross-sections.

STATUS: Analyzing cross-section reach 11858.000.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	609.56
Right Encroachment Station (ft, STENCR)	670.01
Encroachment Method (TYPE)	1
Width or Percent Target	60.450

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11858.000	.000	.030	.000	6.61	5957.00	5955.35	5957.00
.002788	0	0	0	5957.90	.90	.00	.00
.00	0	324	0	.00	5955.39	100000.00	0
2470	0	2470	0	60.4	609.56	670.01	14
.00	.00	7.62	.00	.000	.0	5950.39	0

Contraction Coefficient (CCHV) .000

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 11934.000.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 676.95
 Right Encroachment Station (ft, STENCR) 736.91
 Encroachment Method (TYPE) 1
 Width or Percent Target 59.960

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11934.000	.000	.035	.000	6.55	5957.25	5955.69	5957.15
.004063	81	80	85	5958.19	.95	.27	.02
.59	0	316	0	.00	5955.74	100000.00	1
2470	0	2470	0	60.0	676.95	736.91	15
.00	.00	7.81	.00	.000	.1	5950.70	0

STATUS: Analyzing cross-section reach 12030.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 648.10
 Right Encroachment Station (ft, STENCR) 1301.79
 Encroachment Method (TYPE) 1
 Width or Percent Target -648.100
 Left Encroachment Elevation (ft, ELENCL) 5964.13
 Right Encroachment Elevation (ft, ELENCR) 100000.00

12030.000	.000	.030	.000	4.41	5959.71	5959.71	5959.68
.008918	105	105	105	5961.47	1.76	.61	.41
1.26	0	231	0	.00	5960.38	5960.38	0
2470	0	2470	0	66.1	719.11	785.22	11
.01	.00	10.65	.00	.000	.3	5955.30	0

STATUS: Analyzing cross-section reach 12400.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.56

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 585.06
 Right Encroachment Station (ft, STENCR) 655.07
 Encroachment Method (TYPE) 1
 Width or Percent Target 70.010

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA ~	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
12400.000	.000	.030	.000	5.53	5962.53	5961.34	5962.53
.003686	372	372	372	5963.50	.98	2.03	.00
3.58	0	311	0	.00	5962.00	100000.00	2
2470	0	2470	0	70.0	585.06	655.07	5
.02	.00	7.93	.00	.000	.8	5957.00	0

STATUS: Analyzing cross-section reach 12655.000.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 428.34
 Right Encroachment Station (ft, STENCR) 498.49
 Encroachment Method (TYPE) 1
 Width or Percent Target 70.150

12655.000	.000	.030	.000	5.36	5963.48	5962.47	5963.45
.004104	255	255	255	5964.53	1.04	.99	.03
5.37	0	301	0	.00	5963.12	100000.00	3
2470	0	2470	0	70.1	428.34	498.49	15
.03	.00	8.20	.00	.000	1.3	5958.12	0

STATUS: Analyzing cross-section reach 12910.000.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 218.92
 Right Encroachment Station (ft, STENCR) 298.43
 Encroachment Method (TYPE) 1
 Width or Percent Target 79.510

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
12910.000	.000	.035	.040	5.51	5964.71	5963.56	5964.69
.005022	258	258	258	5965.70	.98	1.17	.00
7.18	0	310	0	.00	5964.24	5964.24	3
2470	0	2469	0	71.0	218.92	289.88	15
.04	.00	7.96	.93	.000	1.7	5959.20	0

Contraction Coefficient (CCHV) .000

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 12965.000.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 135.29
 Right Encroachment Station (ft, STENCR) 234.95
 Encroachment Method (TYPE) 1
 Width or Percent Target 99.660

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5970.00
 Right Overbank Elevation (ft, RBEL) 5970.00

12965.000	.000	.035	.000	5.91	5965.11	5963.56	5965.08
.003908	54	54	54	5965.93	.82	.24	.00
7.59	0	339	0	.00	5970.00	100000.00	2
2470	0	2470	0	72.8	148.66	221.47	15
.04	.00	7.27	.00	.000	1.8	5959.20	0

Contraction Coefficient (CCHV) .000

Expansion Coefficient (CEHV) .500

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STATUS: Analyzing cross-section reach 13000.000.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 118.00
 Right Encroachment Station (ft, STENCR) 188.00
 Encroachment Method (TYPE) 1
 Width or Percent Target 70.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13000.000	.000	.035	.040	5.47	5965.17	5964.08	5965.14
.005250	34	34	34	5966.18	1.01	.15	.10
7.84	0	306	0	.00	100000.00	5964.75	2
2470	0	2469	0	70.0	118.00	188.00	15
.04	.00	8.07	.03	.000	1.8	5959.70	0

5/04/1999

SPECIAL NOTE :

An asterisk (*) to the left of the cross-section number indicates a special note is present in the SUMMARY OF WARNING AND STATUS MESSAGES section.

SUMMARY PRINTOUT TABLE 150 : PETERSON FIELD DRAINAGE BASIN LOMR

SECT.11858/13000/SBCRT/ FWSP4E2.*
 67.42167.08

Cross- Section Number	Channel Reach Length (ft)	Top of Roadway Elevation (ft MSL)	Max. Low Chord Elevation (ft MSL)	Minimum C. S. Elevation (ft MSL)	Discharge Flow (cfs) Q	Computed W. S. Elevation (ft MSL) CWSEL	Critical W. S. Elevation (ft MSL) CRIWS	Energy Gradient Elevation (ft MSL) EG	Energy Gradient Slope * 10,000 10K*S	Channel Mean Flow Velocity (ft/s) VCH	Cross- Section Area (sq ft) AREA	Index Q (0.01 * Convey.) .01K
SECNO	XLCH	ELTRD	ELLC	ELMIN								
11858.000	.00	.00	.00	5950.39	2470.00	5957.00	5955.20	5957.28	11.67	5.10	903.57	723.14
11858.000	.00	.00	.00	5950.39	2470.00	5957.00	5955.35	5957.90	27.88	7.62	324.34	467.77
11934.000	80.76	.00	.00	5950.70	2470.00	5957.15	5956.52	5957.39	15.25	4.88	892.23	632.50
11934.000	80.76	.00	.00	5950.70	2470.00	5957.25	5955.69	5958.19	40.63	7.81	316.44	387.52
* 12030.000	105.58	.00	.00	5955.30	2470.00	5959.68	5959.68	5961.47	91.48	10.74	229.92	258.25
* 12030.000	105.58	.00	.00	5955.30	2470.00	5959.71	5959.71	5961.47	89.18	10.65	231.95	261.56
* 12400.000	372.08	.00	.00	5957.00	2470.00	5962.53	5961.35	5963.47	35.38	7.85	333.92	415.24
* 12400.000	372.08	.00	.00	5957.00	2470.00	5962.53	5961.34	5963.50	36.86	7.93	311.35	406.85
12655.000	255.00	.00	.00	5958.12	2470.00	5963.45	5962.48	5964.50	41.38	8.25	306.34	383.97
12655.000	255.00	.00	.00	5958.12	2470.00	5963.48	5962.47	5964.53	41.04	8.20	301.19	385.57
12910.000	258.00	.00	.00	5959.20	2470.00	5964.69	5963.57	5965.67	50.17	7.97	318.31	348.71
12910.000	258.00	.00	.00	5959.20	2470.00	5964.71	5963.56	5965.70	50.22	7.96	310.55	348.55
12965.000	54.01	.00	.00	5959.20	2470.00	5965.08	5963.56	5965.91	39.89	7.32	337.46	391.06
12965.000	54.01	.00	.00	5959.20	2470.00	5965.11	5963.56	5965.93	39.08	7.27	339.77	395.11
13000.000	34.40	.00	.00	5959.70	2470.00	5965.14	5964.09	5966.17	53.27	8.12	304.38	338.43
13000.000	34.40	.00	.00	5959.70	2470.00	5965.17	5964.08	5966.18	52.50	8.07	306.06	340.90

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SUMMARY PRINTOUT TABLE 150 : PETERSON FIELD DRAINAGE BASIN LOMR

----- SECT.11858/13000/SBCRT/ FWSP4E2.*

67.42167.08

Cross- Section Number	Discharge Flow (cfs) Q	Computed W. S. Elevation (ft MSL) CWSEL	W.S. Elev Diff per Profile (ft) DIFWSP	W.S. Elev Diff per Section (ft) DIFWSX	W.S. Elev Diff per Know/Comp (ft) DIFKWS	Water Surface Top Width (ft) TOPWID	Channel Reach Length (ft) XLCH
SECNO							
11858.000	2470.00	5957.00	.00	.00	.00	592.03	.00
11858.000	2470.00	5957.00	.00	.00	.00	60.45	.00
11934.000	2470.00	5957.15	.00	.15	.00	564.06	80.76
11934.000	2470.00	5957.25	.10	.25	.10	59.96	80.76
* 12030.000	2470.00	5959.68	.00	2.53	.00	65.92	105.58
* 12030.000	2470.00	5959.71	.03	2.46	.03	66.10	105.58
* 12400.000	2470.00	5962.53	.00	2.85	.00	129.96	372.08
* 12400.000	2470.00	5962.53	.00	2.82	.00	70.01	372.08
12655.000	2470.00	5963.45	.00	.92	.00	115.41	255.00
12655.000	2470.00	5963.48	.04	.96	.04	70.15	255.00
12910.000	2470.00	5964.69	.00	1.24	.00	111.57	258.00
12910.000	2470.00	5964.71	.02	1.23	.02	70.96	258.00
12965.000	2470.00	5965.08	.00	.39	.00	72.71	54.01
12965.000	2470.00	5965.11	.03	.40	.03	72.82	54.01
13000.000	2470.00	5965.14	.00	.06	.00	71.48	34.40
13000.000	2470.00	5965.17	.03	.06	.03	70.00	34.40

5/04/1999

SUMMARY OF WARNING AND STATUS MESSAGES :

Section 12030, profile 1, critical depth assumed.

Section 12030, profile 1, minimum specific energy.

Section 12030, profile 2, critical depth assumed.

Section 12030, profile 2, minimum specific energy.

Section 12400, profile 1, conveyance change outside acceptable range.

Section 12400, profile 2, conveyance change outside acceptable range.

6 Warning and status message(s) generated

SUMMARY PRINTOUT TABLE 200 : PETERSON FIELD DRAINAGE BASIN LOMR
----- SECT.11858/13000/SBCRT/ FWSP4E2.*
67.42167.08

Profile Number 2

Cross- Section Number	Floodway Width (ft)	Floodway Section Area (sq ft)	Floodway Mean Velocity (ft/s)	W. S. Elevation with Floodway (ft MSL)	W. S. Elevation without Floodway (ft MSL)	W. S. Elevation Difference (ft)
11858.000	60.	324.	7.6	5957.0	5957.0	.0
11934.000	60.	316.	7.8	5957.2	5957.1	.1
12030.000	66.	232.	10.6	5959.7	5959.7	.0
12400.000	70.	311.	7.9	5962.5	5962.5	.0
12655.000	70.	301.	8.2	5963.4	5963.4	.0
12910.000	71.	311.	8.0	5964.7	5964.7	.0
12965.000	73.	340.	7.3	5965.1	5965.1	.0
13000.000	70.	306.	8.1	5965.1	5965.1	.0

END OF OUTPUT

SEGMENT 3

BOSS RMS for AutoCAD HEC-2 Analysis version 3.5
PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR
PROJECT NUMBER : 67.42167.08

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=====

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Version : 3.5
Serial Number : 23543

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PROGRAM ORIGIN :

BOSS RMS for AutoCAD HEC-2 Analysis is an enhanced version of the U.S.
Army Corps of Engineers Hydrologic Engineering Center HEC-2 program
for water-surface profile computations. Program based upon the September
1990 version, updated on August 1991.

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PROJECT DESCRIPTION :

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR
PROJECT NUMBER : 67.42167.08
DESCRIPTION : SECT.13000/17150 SPRCRIT/FWSP4E3.*
ENGINEER : R.SANCHEZ/J.SCHWAB
DATE OF RUN : 1/20/1999
TIME OF RUN : 8:48 am

T1 67.42167.08
 T2 PETERSON FIELD DRAINAGE BASIN LOMR
 T3 SECT.13000/17150 SPRCRIT/FWSP4E3.*

JOB PARAMETERS :

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		2		1				1470	6019.11	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1		-1					-1	-6	

USER-DEFINED SUMMARY TABLES (J3) :

	150	200								
NC	0.04	0.04	0.013							
X1	17510	8	102	132	128.54	128.54	128.54			
X3	10							6021.51	6021.51	
GR	6022	96.5	6021.51	100	6021.51	102	6013.51	114	6013.51	120
GR	6021.5	132	6021.51	134	6022	136.5				
ET			7.1				102	132		
X1	17383	6	102	132	5	5	5			
X3	10							6020.84	6020.75	
GR	6020.7	100	6020.75	102	6012.75	114	6012.75	120	6020.75	132
GR	6020.7	134								
ET			7.1				102	132		
X1	17375	6	102	132	195.78	195.78	195.78			
X3	10							6018.75	6018.75	
GR	6018.7	100	6018.75	102	6010.75	114	6010.75	120	6018.75	132
GR	6018.7	134								
ET			7.1				102	132		
X1	17178	6	102	132	4	4	4			
X3	10							6017.5	6017.5	
GR	6017.5	100	6017.5	102	6009.5	114	6009.5	120	6017.5	132
GR	6017.5	134								
ET			7.1				102	132		
X1	17174	6	102	132	242	242	242			
X3	10							6016.5	6016.5	
GR	6016.5	100	6016.5	102	6008.5	114	6008.5	120	6016.5	132

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GR	6016.5	134									
ET			7.1				102		132		
X1	16928	6	102	132	8	8	8				
X3	10										
GR	6014.9	100	6014.95	102	6006.95	114	6006.95	6014.95	6014.95		
GR	6014.9	134						120	6014.95	132	
ET			7.1				102		132		
X1	16920	6	102	132	192	192	192				
X3	10										
GR	6012.9	100	6012.95	102	6004.95	114	6004.95	6012.95	6012.95		
GR	6012.9	134						120	6012.95	132	
ET			7.1				102		132		
X1	16728	6	102	132	8	8	8				
X3	10										
GR	6011.7	100	6011.72	102	6003.72	114	6003.72	6011.72	6011.72		
GR	6011.7	134						120	6011.72	132	
ET			7.1				102		132		
X1	16720	6	102	132	204	204	204				
X3	10										
GR	6009.7	100	6009.72	102	6001.72	114	6001.72	6009.72	6009.72		
GR	6009.7	134						120	6009.72	132	
ET			7.1				102		132		
X1	16516	6	102	132	8	8	8				
X3	10										
GR	6008.4	100	6008.41	102	6000.41	114	6000.41	6008.41	6008.41		
GR	6008.4	134						120	6008.41	132	
ET			7.1				102		132		
X1	16508	6	102	132	205	250	205				
X3	10										
GR	6006.4	100	6006.41	102	5998.41	114	5998.41	6006.41	6006.41		
GR	6006.4	134						120	6006.41	132	
ET			7.1				102		132		
X1	16303	6	102	132	8	8	8				
X3	10										
GR	6005.1	100	6005.1	102	5997.1	114	5997.1	6005.1	6005.1		
GR	6005.1	134						120	6005.1	132	
ET			7.1				102		132		
X1	16295	6	102	132	125	125	125				
X3	10										
GR	6004.1	100	6004.1	102	5996.1	114	5996.1	6004.1	6004.1		
GR	6004.1	134						120	6004.1	132	
NC				0.3							
ET			7.1				102		132		

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X1	16171	6	102	132	32	32	32			
X3	10							6003.3	6003.3	
GR	6003.3	100	6003.3	102	5995.3	114	5995.3	120	6003.3	132
GR	6003.3	134								
ET			7.1				158	177		
X1	16139	11	158.02	176.98	115.54	143.32	129.42			
X3	10							6002.6	6002.6	
X5	2	6004.01	6004.01							
GR	6006	100	6002.6	157.02	6002.6	158.02	5994.6	158.02	5994.6	167.03
GR	6002.6	167.05	6002.6	167.88	5994.6	167.88	5994.6	176.98	6002.6	176.98
GR	6006	197.33								
ET			7.1				115	134		
X1	16010	10	115.38	133.94	32	32	32			
X3	10							6000.48	6000.48	
GR	6004	100	6000.48	115.38	5992.48	115.39	5992.48	124.24	6000.48	124.25
GR	6000.4	125.07	5992.48	125.08	5992.48	133.93	6000.48	133.94	6004	158.89
NC					0.5					
ET			7.1				102	134		
X1	15978	6	102	133.51	180.13	176.49	178.33			
X3	10							6000.37	6000.37	
X5	2	5997.03	5997.03							
GR	6000.3	100	6000.37	102	5991.87	114.75	5991.87	120.75	6000.37	133.51
GR	6000.3	135.51								
ET			7.1				100	132		
X1	15800	5	100	131.56	209.46	191.33	199.59			
X3	10							5998.95	5998.95	
GR	5998.9	100	5990.45	112.75	5990.45	118.72	5998.95	131.56	5998.95	133.56
ET			7.1				100	131		
X1	15600	5	100	131.31	206.82	194.32	200			
X3	10							5997.35	5997.35	
GR	5997.3	100	5988.85	112.55	5988.85	118.66	5997.35	131.31	5997.35	133.29
ET			7.1				102	133		
X1	15400	6	102	133.51	400	400	400			
X3	10							5995.75	5995.75	
GR	5995.7	100	5995.75	102	5987.25	114.76	5987.25	120.76	5995.75	133.51
GR	5995.7	135.51								
ET			7.1				102	134		
X1	15000	6	102	133.51	350	350	350			
X3	10							5992.55	5992.55	
GR	5992.5	100	5992.55	102	5984.05	114.75	5984.05	120.76	5992.55	133.51
GR	5992.5	135.51								
NC	0.016	0.016	0.013	0.3						
ET			7.1				147	178		
X1	14650	8	146.61	178.17	48.28	48.28	48.28			

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X3	10									
GR	5995.2	100	5990.16	144.61	5990.16	146.61	5981.66	5990.16	5990.16	
GR	5990.1	178.17	5990.16	180.18	5992.67	205.17		159.39	5981.66	165.4
ET			7.1				217	236		
X1	14606	11	216.8	235.74	302	302	302			
X3	10									
X5	2	5990.71	5990.71					5989.28	5989.28	
GR	5994	100	5989.28	216.8	5981.28	216.81	5981.28	225.84	5981.28	226.1814
GR	5981.2	226.1814	5981.28	226.7	5981.28	235.73	5989.28	235.74	5992.67	275.37
GR	5992	473.15								
ET			7.1				177	197		
X1	14317	21	177.21	197.41	33.75	36.88	32.38			
X3	10							5988	5988	
GR	6000	100	5998	130.04	5996	139.83	5994	164.54	5992	168.47
GR	5990	172.41	5988	177.21	5985.17	177.51	5977.17	177.52	5977.17	186.54
GR	5985.1	186.55	5985.17	187.38	5977.17	187.39	5977.17	196.41	5985.17	196.42
GR	5988	197.41	5988	202.42	5988	269.08	5990	279.29	5992	297.8
GR	5994	321.15								
NC					0.5					
ET			7.1				157	189		
X1	14285	23	157.35	189.36	68.59	94.58	68.79			
X3	10					191.36	5984.66	5984.66	5984.66	
X5	2	5979.6	5979.6							
GR	6000	100	5998	108.16	5996	115.78	5994	123.4	5992	131.01
GR	5990	138.63	5988	146.24	5986	153.86	5984.66	155.34	5984.66	157.35
GR	5976.6	169.35	5976.6	177.36	5984.66	189.36	5984.66	191.36	5984	208.63
GR	5982	240.38	5980	250.89	5980	261.22	5982	272.03	5984	284.89
GR	5984	293	5984	313.4	5986	315.88				
ET			7.1				102	134		
X1	14217	6	102	134.01	123.98	125.87	124.95			
X3	10							5981.33	5981.33	
GR	5981.3	100	5981.33	102	5973.33	114	5973.33	122	5981.33	134.01
GR	5981.3	136.01								
NC					0.3					
QT	2	2470	2470							
ET			7.1				102	140		
X1	14193	6	102	140.01	392.11	380.11	385.24			
X3	10							5980.62	5980.62	
GR	5980.6	100	5980.62	102	5972.62	114	5972.62	128.01	5980.62	140.01
GR	5980.6	142.01								
ET			7.1				102	140		
X1	13706	6	102	140	135.63	134.52	135.58			
X3	10							5977.42	5977.42	
GR	5977.4	100	5977.42	102	5969.42	114	5969.42	128	5977.42	140
GR	5977.4	142								

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PROJECT NUMBER : 67.42167.08

[illegible]

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STATUS: Critical depth to be calculated at all cross-sections.

STATUS: Analyzing cross-section reach 17510.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	6021.51
Right Overbank Elevation (ft, RBEL)	6021.51

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Cross Section Number SECNO	Left Overbank Manning XNL	Channel Manning n XNCH	Right Overbank Manning XNR	Flow Depth DEPTH (ft)	Water Surface Elevation CWSEL (ft MSL)	Critical W. S. Elevation CRIWS (ft MSL)	Known W. S. Elevation WSELK (ft MSL)
Energy Gradient	Left Overbank Length	Channel Length	Right Overbank Length	Energy Gradient Elevation EG (ft MSL)	Weighted Velocity Head HV (ft)	Friction Energy Loss HL (ft)	Other Energy Loss OLOSS (ft)
SLOPE (ft/ft)	XLOBL (ft)	XLCH (ft)	XLOBR (ft)	EG (ft MSL)	HV (ft)	HL (ft)	OLOSS (ft)
Cummul- ative Volume VOL (acre-ft)	Left Overbank Area ALOB (sq ft)	Channel Area ACH (sq ft)	Right Overbank Area AROB (sq ft)	Bridge Deck Area CORAR (sq ft)	Left Bank Elevation LTBNK (ft MSL)	Right Bank Elevation RTBNK (ft MSL)	Number of Balance Trials ITRIAL
Total Flow Q (cfs)	Left Overbank Flow QLOB (cfs)	Channel Flow QCH (cfs)	Right Overbank Flow QROB (cfs)	Computed W. S. Top Width TOPWD (ft)	Left W. S. Station SSTA (ft)	Right W. S. Station ENDST (ft)	Number of Crit Dpth Trials IDC
Flow Travel Time TIME (hrs)	Left Overbank Velocity VLOB (ft/s)	Channel Mean Velocity VCH (ft/s)	Right Overbank Velocity VROB (ft/s)	Length Weighted Manning n WTN	Cummul. Surface Area TWA (acres)	Minimum C. S. Elevation ELMIN (ft MSL)	Number of Other Trials ICONT
17510.000	.000	.013	.000	5.60	6019.11	6020.75	6019.11
.005673	0	0	0	6024.27	5.16	.00	.00
.00	0	80	0	.00	6021.51	6021.50	0
1470	0	1470	0	22.8	105.60	128.41	10
.00	.00	18.22	.00	.000	.0	6013.51	0

STATUS: Analyzing cross-section reach 17383.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6020.84
 Right Overbank Elevation (ft, RBEL) 6020.75

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SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
17383.000	.000	.013	.000	5.58	6018.33	6020.00	.00
.005734	128	128	128	6023.53	5.20	.73	.00
.24	0	80	0	.00	6020.75	6020.75	6
1470	0	1470	0	22.8	105.62	128.38	11
.00	.00	18.30	.00	.000	.1	6012.75	0

STATUS: Analyzing cross-section reach 17375.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6018.75
 Right Overbank Elevation (ft, RBEL) 6018.75

17375.000	.000	.013	.000	4.90	6015.65	6018.00	.00
.009972	5	5	5	6023.50	7.85	.04	.00
.25	0	65	0	.00	6018.75	6018.75	7
1470	0	1469	0	20.7	106.65	127.35	11
.00	.00	22.48	.00	.000	.1	6010.75	0

STATUS: Analyzing cross-section reach 17178.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6017.50
 Right Overbank Elevation (ft, RBEL) 6017.50

17178.000	.000	.013	.000	5.06	6014.56	6016.75	.00
.008731	195	195	195	6021.67	7.11	1.82	.00
.55	0	68	0	.00	6017.50	6017.50	6
1470	0	1469	0	21.2	106.41	127.59	14
.00	.00	21.40	.00	.000	.2	6009.50	0

STATUS: Analyzing cross-section reach 17174.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

1/20/1999

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6016.50
 Right Overbank Elevation (ft, RBEL) 6016.50

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
17174.000	.000	.013	.000	4.81	6013.31	6015.78	.00
.010790	4	4	4	6021.63	8.32	.04	.00
.55	0	63	0	.00	6016.50	6016.50	7
1470	0	1470	0	20.4	106.79	127.21	11
.00	.00	23.15	.00	.000	.2	6008.50	0

STATUS: Analyzing cross-section reach 16928.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6014.95
 Right Overbank Elevation (ft, RBEL) 6014.95

16928.000	.000	.013	.000	5.03	6011.98	6014.19	.00
.009005	242	242	242	6019.25	7.27	2.38	.00
.92	0	67	0	.00	6014.95	6014.95	6
1470	0	1470	0	21.1	106.47	127.53	14
.01	.00	21.64	.00	.000	.3	6006.95	0

STATUS: Analyzing cross-section reach 16920.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6012.95
 Right Overbank Elevation (ft, RBEL) 6012.95

16920.000	.000	.013	.000	4.58	6009.53	6012.23	.00
.013142	8	8	8	6019.17	9.63	.09	.00
.93	0	59	0	.00	6012.95	6012.95	8
1470	0	1469	0	19.8	107.12	126.88	11
.01	.00	24.91	.00	.000	.3	6004.95	0

STATUS: Analyzing cross-section reach 16728.000.

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STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6011.72
 Right Overbank Elevation (ft, RBEL) 6011.72

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16728.000	.000	.013	.000	4.80	6008.52	6010.96	.00
.010854	192	192	192	6016.88	8.36	2.29	.00
1.20	0	63	0	.00	6011.72	6011.72	7
1470	0	1469	0	20.4	106.80	127.20	14
.01	.00	23.20	.00	.000	.4	6003.72	0

STATUS: Analyzing cross-section reach 16720.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6009.72
 Right Overbank Elevation (ft, RBEL) 6009.72

16720.000	.000	.013	.000	4.44	6006.16	6008.96	.00
.014986	8	8	8	6016.78	10.62	.10	.00
1.21	0	56	0	.00	6009.72	6009.72	8
1470	0	1469	0	19.3	107.34	126.66	14
.01	.00	26.15	.00	.000	.4	6001.72	0

STATUS: Analyzing cross-section reach 16516.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6008.41
 Right Overbank Elevation (ft, RBEL) 6008.41

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SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

16516.000	.000	.013	.000	4.70	6005.11	6007.66	.00
.011909	204	204	204	6014.06	8.95	2.72	.00
1.49	0	61	0	.00	6008.41	6008.41	7
1470	0	1469	0	20.1	106.96	127.04	14
.01	.00	24.01	.00	.000	.5	6000.41	0

STATUS: Analyzing cross-section reach 16508.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	6006.41
Right Overbank Elevation (ft, RBEL)	6006.41

16508.000	.000	.013	.000	4.36	6002.77	6005.66	.00
.016062	8	8	8	6013.95	11.18	.11	.00
1.50	0	54	0	.00	6006.41	6006.41	8
1470	0	1469	0	19.1	107.45	126.55	14
.01	.00	26.83	.00	.000	.5	5998.41	0

STATUS: Analyzing cross-section reach 16303.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	6005.10
Right Overbank Elevation (ft, RBEL)	6005.10

16303.000	.000	.013	.000	4.64	6001.74	6004.35	.00
.012557	205	205	250	6011.05	9.31	2.90	.00
1.77	0	60	0	.00	6005.10	6005.10	7
1470	0	1469	0	19.9	107.05	126.95	14
.01	.00	24.49	.00	.000	.6	5997.10	0

STATUS: Analyzing cross-section reach 16295.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

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STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6004.10
 Right Overbank Elevation (ft, RBEL) 6004.10

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBK	RTBK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16295.000	.000	.013	.000	4.47	6000.57	6003.35	.00
.014514	8	8	8	6010.94	10.37	.11	.00
1.78	0	56	0	.00	6004.10	6004.10	8
1470	0	1469	0	19.4	107.29	126.71	14
.02	.00	25.84	.00	.000	.6	5996.10	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .000

STATUS: Analyzing cross-section reach 16171.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6003.30
 Right Overbank Elevation (ft, RBEL) 6003.30

16171.000	.000	.013	.000	4.63	5999.93	6002.55	.00
.012578	125	125	125	6009.26	9.32	1.69	.00
1.95	0	59	0	.00	6003.30	6003.30	8
1470	0	1469	0	19.9	107.05	126.95	14
.02	.00	24.50	.00	.000	.6	5995.30	0

STATUS: Analyzing cross-section reach 16139.000.

STATUS: Water surface elevation set by X5 card, 6004.010 ft MSL.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .58

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STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6002.60
 Right Overbank Elevation (ft, RBEL) 6002.60

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WPN	TWA	ELMIN	ICONT
16139.000	.000	.013	.000	5.81	6000.41	6000.47	.00
.004297	32	32	32	6003.44	3.03	.22	.00
2.01	0	105	0	.00	6002.60	6002.60	0
1470	0	1470	0	18.1	158.02	176.98	11
.02	.00	13.97	.00	.000	.6	5994.60	0

STATUS: Analyzing cross-section reach 16010.000.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6000.48
 Right Overbank Elevation (ft, RBEL) 6000.48

16010.000	.000	.013	.000	4.63	5997.11	5998.44	.00
.008277	115	129	143	6002.10	4.99	.75	.59
2.28	0	81	0	.00	6000.48	6000.48	5
1470	0	1470	0	17.7	115.38	133.94	8
.02	.00	17.93	.00	.000	.7	5992.48	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 15978.000.

STATUS: Water surface elevation set by X5 card, 5997.030 ft MSL.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

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STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6000.37
 Right Overbank Elevation (ft, RBEL) 6000.37

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15978.000	.000	.013	.000	5.16	5997.03	5999.11	.00
.008022	32	32	32	6003.70	6.67	.26	.50
2.34	0	70	0	.00	6000.37	6000.37	0
1470	0	1470	0	21.5	107.01	128.50	14
.02	.00	20.73	.00	.000	.7	5991.87	0

STATUS: Analyzing cross-section reach 15800.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5998.95
 Right Overbank Elevation (ft, RBEL) 5998.95

15800.000	.000	.013	.000	5.15	5995.60	5997.72	.00
.008028	180	178	176	6002.27	6.67	1.43	.00
2.63	0	70	0	.00	5998.90	5998.95	12
1470	0	1470	0	21.5	104.97	126.51	11
.02	.00	20.72	.00	.000	.8	5990.45	0

STATUS: Analyzing cross-section reach 15600.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5997.35
 Right Overbank Elevation (ft, RBEL) 5997.35

15600.000	.000	.013	.000	5.15	5994.00	5996.11	.00
.007997	209	199	191	6000.67	6.67	1.60	.00
2.96	0	70	0	.00	5997.30	5997.35	12
1470	0	1470	0	21.4	104.90	126.33	11
.02	.00	20.73	.00	.000	.9	5988.85	0

STATUS: Analyzing cross-section reach 15400.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5995.75
 Right Overbank Elevation (ft, RBEL) 5995.75

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SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

15400.000	.000	.013	.000	5.15	5992.40	5994.52	.00
.008003	206	200	194	5999.07	6.66	1.60	.00
3.28	0	70	0	.00	5995.75	5995.75	12
1470	0	1470	0	21.5	107.01	128.50	11
.03	.00	20.71	.00	.000	1.0	5987.25	0

STATUS: Analyzing cross-section reach 15000.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5992.55
Right Overbank Elevation (ft, RBEL)	5992.55

15000.000	.000	.013	.000	5.18	5989.23	5991.32	.00
.007956	400	400	400	5995.86	6.63	3.19	.01
3.93	0	71	0	.00	5992.55	5992.55	7
1470	0	1470	0	21.5	107.00	128.51	11
.03	.00	20.67	.00	.000	1.2	5984.05	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 14650.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5990.16
Right Overbank Elevation (ft, RBEL)	5990.16

14650.000	.000	.013	.000	5.35	5987.01	5988.92	.00
.006831	350	350	350	5992.92	5.91	2.58	.36
4.52	0	75	0	.00	5990.16	5990.10	5
1470	0	1470	0	22.1	151.35	173.49	11
.04	.00	19.52	.00	.000	1.4	5981.66	0

STATUS: Analyzing cross-section reach 14606.000.

STATUS: Water surface elevation set by X5 card, 5990.710 ft MSL.

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STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .63

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5989.28
 Right Overbank Elevation (ft, RBEL) 5989.28

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTENK	RTENK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14606.000	.000	.013	.000	5.73	5986.93	5986.98	.00
.002695	48	48	48	5989.86	2.94	.20	1.49
4.62	0	106	0	.00	5989.28	5989.28	0
1470	0	1470	0	18.9	216.80	235.74	8
.04	.00	13.75	.00	.000	1.4	5981.20	0

STATUS: Analyzing cross-section reach 14317.000.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 2.02

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5988.00
 Right Overbank Elevation (ft, RBEL) 5988.00

14317.000	.000	.013	.000	4.09	5981.26	5983.06	.00
.011012	302	302	302	5987.43	6.18	1.46	.97
5.25	0	73	0	.00	5988.00	5988.00	6
1470	0	1469	0	18.1	177.51	196.42	8
.04	.00	19.95	.00	.000	1.5	5977.17	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 14285.000.

STATUS: Water surface elevation set by X5 card, 5979.600 ft MSL.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 2.07

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) .00
 Right Encroachment Station (ft, STENCR) 191.36
 Encroachment Method (TYPE) 1
 Width or Percent Target 191.359

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5984.66
 Right Overbank Elevation (ft, RBEL) 5984.66

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14285.000	.000	.013	.000	3.00	5979.60	5983.39	.00
.047033	33	32	36	6003.55	23.95	.65	5.33
5.29	0	37	0	.00	5984.66	5984.66	0
1470	0	1469	0	16.9	164.88	181.83	14
.04	.00	39.27	.00	.000	1.5	5976.60	0

STATUS: Analyzing cross-section reach 14217.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5981.33
 Right Overbank Elevation (ft, RBEL) 5981.33

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SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

14217.000	.000	.013	.000	3.00	5976.33	5980.11	.00
.047195	68	68	94	6000.30	23.97	3.24	.01
5.35	0	37	0	.00	5981.33	5981.33	16
1470	0	1469	0	17.0	109.51	126.50	17
.04	.00	39.29	.00	.000	1.6	5973.33	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .300

STATUS: Analyzing cross-section reach 14193.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .43

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5980.62
Right Overbank Elevation (ft, RBEL)	5980.62

14193.000	.000	.013	.000	3.68	5976.30	5980.14	.00
.025100	123	124	125	5994.78	18.48	3.88	1.65
5.51	0	71	0	.00	5980.62	5980.62	5
2470	0	2469	0	25.0	108.50	133.51	17
.04	.00	34.49	.00	.000	1.6	5972.62	0

STATUS: Analyzing cross-section reach 13706.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5977.42
Right Overbank Elevation (ft, RBEL)	5977.42

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SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTPNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

13706.000	.000	.013	.000	4.32	5973.74	5976.92	.00
.013829	392	385	380	5985.84	12.10	7.02	1.91
6.21	0	88	0	.00	5977.42	5977.42	7
2470	0	2469	0	27.0	107.52	134.48	17
.05	.00	27.91	.00	.000	1.8	5969.42	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .300

STATUS: Analyzing cross-section reach 13570.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5977.25
Right Overbank Elevation (ft, RBEL)	5977.25

13570.000	.000	.013	.000	4.61	5972.86	5975.93	.00
.011557	135	135	134	5983.78	10.91	1.71	.35
6.50	0	93	0	.00	5977.25	5977.25	10
2470	0	2469	0	26.3	107.84	134.16	14
.05	.00	26.51	.00	.000	1.9	5968.25	0

STATUS: Analyzing cross-section reach 13525.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5976.42
Right Overbank Elevation (ft, RBEL)	5976.42

13525.000	.000	.013	.000	4.60	5972.02	5975.18	.00
.011955	40	40	40	5983.22	11.20	.47	.09
6.58	0	91	0	.00	5976.42	5976.40	9
2470	0	2469	0	20.0	100.99	121.01	14
.05	.00	26.86	.00	.000	1.9	5967.42	0

STATUS: Analyzing cross-section reach 13405.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

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STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5975.43
 Right Overbank Elevation (ft, RBEL) 5975.43

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13405.000	.000	.013	.000	4.75	5971.18	5974.19	.00
.010796	116	120	123	5981.63	10.45	1.37	.22
6.84	0	95	0	.00	5975.43	5975.43	9
2470	0	2469	0	20.1	164.11	184.21	14
.05	.00	25.94	.00	.000	2.0	5966.43	0

STATUS: Analyzing cross-section reach 13280.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5974.39
 Right Overbank Elevation (ft, RBEL) 5974.40

13280.000	.000	.013	.000	4.87	5970.26	5973.13	.00
.010023	119	124	129	5980.18	9.92	1.29	.16
7.11	0	97	0	.00	5974.39	5974.40	13
2470	0	2469	0	20.1	175.46	195.59	14
.05	.00	25.28	.00	.000	2.1	5965.39	0

STATUS: Analyzing cross-section reach 13205.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5972.95
 Right Overbank Elevation (ft, RBEL) 5972.95

13205.000	.000	.013	.000	4.95	5968.90	5971.90	.00
.010503	78	75	73	5979.27	10.38	.77	.14
7.28	0	95	0	.00	5972.95	5972.95	16
2470	0	2469	0	19.4	209.64	229.00	14
.05	.00	25.85	.00	.000	2.1	5963.95	0

STATUS: Analyzing cross-section reach 13105.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

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STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5971.03
 Right Overbank Elevation (ft, RBEL) 5971.03

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13105.000	.000	.013	.000	4.66	5966.69	5969.88	.00
.011858	103	99	90	5977.91	11.22	1.11	.25
7.50	0	91	0	.00	5971.03	5971.03	14
2470	0	2469	0	19.7	188.33	208.06	14
.05	.00	26.88	.00	.000	2.1	5962.03	0

STATUS: Analyzing cross-section reach 13036.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5969.67
 Right Overbank Elevation (ft, RBEL) 5969.67

13036.000	.000	.013	.000	4.53	5965.13	5968.40	.00
.012834	72	69	67	5976.89	11.76	.86	.16
7.64	0	89	0	.00	5969.67	5969.67	17
2470	0	2469	0	20.0	101.00	121.00	14
.06	.00	27.52	.00	.000	2.2	5960.60	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 13000.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.69

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5964.75
 Right Overbank Elevation (ft, RBEL) 5964.75

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTKNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13000.000	.000	.013	.000	1.81	5961.56	5964.12	.00
.036666	39	37	39	5975.48	13.93	.75	.65
7.72	0	82	0	.00	5964.70	5964.75	17
2470	0	2469	0	50.9	109.51	160.46	8
.06	.00	29.95	.00	.000	2.2	5959.75	0

T1 67.42167.08
 T2 PETERSON FIELD DRAINAGE BASIN LOMR
 T3 SECT.13000/17150 SPRCRIT/FWSP4E3.*

JOB PARAMETERS :

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		3		1				1470	6019.11	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15		-1				-1	-6		

STATUS: Analyzing profile 2.

STATUS: Critical depth to be calculated at all cross-sections.

STATUS: Analyzing cross-section reach 17510.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)							6021.51
Right Overbank Elevation (ft, RBEL)							6021.51
17510.000	.000	.013	.000	5.60	6019.11	6020.75	6019.11
.005673	0	0	0	6024.27	5.16	.00	.00
.00	0	80	0	.00	6021.51	6021.50	0
1470	0	1470	0	22.8	105.60	128.41	10
.00	.00	18.22	.00	.000	.0	6013.51	0

STATUS: Analyzing cross-section reach 17383.000.

1/20/1999

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	102.00
Right Encroachment Station (ft, STENCR)	132.00
Encroachment Method (TYPE)	1
Width or Percent Target	30.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	6020.84
Right Overbank Elevation (ft, RBEL)	6020.75

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
17383.000	.000	.013	.000	5.59	6018.34	6020.00	6018.33
.005732	128	128	128	6023.53	5.20	.73	.00
.24	0	80	0	.00	6020.75	100000.00	6
1470	0	1470	0	22.8	105.62	128.38	11
.00	.00	18.29	.00	.000	.1	6012.75	0

STATUS: Analyzing cross-section reach 17375.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	102.00
Right Encroachment Station (ft, STENCR)	132.00
Encroachment Method (TYPE)	1
Width or Percent Target	30.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	6018.75
Right Overbank Elevation (ft, RBEL)	6018.75

1/20/1999

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

17375.000	.000	.013	.000	4.90	6015.65	6018.00	6015.65
.009969	5	5	5	6023.50	7.84	.04	.00
.25	0	65	0	.00	6018.75	100000.00	7
1470	0	1469	0	20.7	106.65	127.35	11
.00	.00	22.48	.00	.000	.1	6010.75	0

STATUS: Analyzing cross-section reach 17178.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	102.00
Right Encroachment Station (ft, STENCR)	132.00
Encroachment Method (TYPE)	1
Width or Percent Target	30.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	6017.50
Right Overbank Elevation (ft, RBEL)	6017.50

17178.000	.000	.013	.000	5.06	6014.56	6016.74	6014.56
.008731	195	195	195	6021.67	7.11	1.82	.00
.55	0	68	0	.00	6017.50	100000.00	6
1470	0	1470	0	21.2	106.41	127.59	14
.00	.00	21.40	.00	.000	.2	6009.50	0

STATUS: Analyzing cross-section reach 17174.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	102.00
Right Encroachment Station (ft, STENCR)	132.00
Encroachment Method (TYPE)	1
Width or Percent Target	30.000

1/20/1999

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6016.50
 Right Overbank Elevation (ft, RBEL) 6016.50

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
17174.000	.000	.013	.000	4.81	6013.31	6015.78	6013.31
.010791	4	4	4	6021.63	8.32	.04	.00
.55	0	63	0	.00	6016.50	100000.00	7
1470	0	1469	0	20.4	106.79	127.21	11
.00	.00	23.15	.00	.000	.2	6008.50	0

STATUS: Analyzing cross-section reach 16928.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 102.00
 Right Encroachment Station (ft, STENCR) 132.00
 Encroachment Method (TYPE) 1
 Width or Percent Target 30.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6014.95
 Right Overbank Elevation (ft, RBEL) 6014.95

16928.000	.000	.013	.000	5.03	6011.98	6014.19	6011.98
.009005	242	242	242	6019.25	7.27	2.38	.00
.92	0	67	0	.00	6014.95	100000.00	6
1470	0	1470	0	21.1	106.47	127.53	14
.01	.00	21.64	.00	.000	.3	6006.95	0

STATUS: Analyzing cross-section reach 16920.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

1/20/1999

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	102.00
Right Encroachment Station (ft, STENCR)	132.00
Encroachment Method (TYPE)	1
Width or Percent Target	30.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	6012.95
Right Overbank Elevation (ft, RBEL)	6012.95

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16920.000	.000	.013	.000	4.58	6009.53	6012.23	6009.53
.013143	8	8	8	6019.17	9.63	.09	.00
.93	0	59	0	.00	6012.95	100000.00	8
1470	0	1469	0	19.8	107.12	126.88	11
.01	.00	24.91	.00	.000	.3	6004.95	0

STATUS: Analyzing cross-section reach 16728.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	102.00
Right Encroachment Station (ft, STENCR)	132.00
Encroachment Method (TYPE)	1
Width or Percent Target	30.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	6011.72
Right Overbank Elevation (ft, RBEL)	6011.72

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR

PROJECT NUMBER : 67.42167.08

1/20/1999

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16728.000	.000	.013	.000	4.80	6008.52	6010.97	6008.52
.010855	192	192	192	6016.88	8.36	2.29	.00
1.20	0	63	0	.00	6011.72	100000.00	7
1470	0	1469	0	20.4	106.80	127.20	14
.01	.00	23.20	.00	.000	.4	6003.72	0

STATUS: Analyzing cross-section reach 16720.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	102.00
Right Encroachment Station (ft, STENCR)	132.00
Encroachment Method (TYPE)	1
Width or Percent Target	30.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	6009.72
Right Overbank Elevation (ft, RBEL)	6009.72

16720.000	.000	.013	.000	4.44	6006.16	6008.96	6006.16
.014987	8	8	8	6016.78	10.62	.10	.00
1.21	0	56	0	.00	6009.72	100000.00	8
1470	0	1469	0	19.3	107.34	126.66	14
.01	.00	26.15	.00	.000	.4	6001.72	0

STATUS: Analyzing cross-section reach 16516.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	102.00
Right Encroachment Station (ft, STENCR)	132.00
Encroachment Method (TYPE)	1
Width or Percent Target	30.000

1/20/1999

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6008.41
 Right Overbank Elevation (ft, RBEL) 6008.41

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16516.000	.000	.013	.000	4.70	6005.11	6007.66	6005.11
.011910	204	204	204	6014.06	8.95	2.72	.00
1.49	0	61	0	.00	6008.41	100000.00	7
1470	0	1469	0	20.1	106.96	127.04	14
.01	.00	24.01	.00	.000	.5	6000.41	0

STATUS: Analyzing cross-section reach 16508.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 102.00
 Right Encroachment Station (ft, STENCR) 132.00
 Encroachment Method (TYPE) 1
 Width or Percent Target 30.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6006.41
 Right Overbank Elevation (ft, RBEL) 6006.41

16508.000	.000	.013	.000	4.37	6002.78	6005.65	6002.77
.016055	8	8	8	6013.95	11.17	.11	.00
1.50	0	54	0	.00	6006.41	100000.00	8
1470	0	1469	0	19.1	107.45	126.55	14
.01	.00	26.82	.00	.000	.5	5998.41	0

STATUS: Analyzing cross-section reach 16303.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

1/20/1999

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	102.00
Right Encroachment Station (ft, STENCR)	132.00
Encroachment Method (TYPE)	1
Width or Percent Target	30.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	6005.10
Right Overbank Elevation (ft, RBEL)	6005.10

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16303.000	.000	.013	.000	4.64	6001.74	6004.35	6001.74
.012557	205	205	250	6011.05	9.31	2.90	.00
1.77	0	60	0	.00	6005.10	100000.00	7
1470	0	1469	0	19.9	107.05	126.95	14
.01	.00	24.49	.00	.000	.6	5997.10	0

STATUS: Analyzing cross-section reach 16295.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	102.00
Right Encroachment Station (ft, STENCR)	132.00
Encroachment Method (TYPE)	1
Width or Percent Target	30.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	6004.10
Right Overbank Elevation (ft, RBEL)	6004.10

1/20/1999

SECNO	KNL	KNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

16295.000	.000	.013	.000	4.47	6000.57	6003.35	6000.57
.014514	8	8	8	6010.94	10.37	.11	.00
1.78	0	56	0	.00	6004.10	100000.00	8
1470	0	1469	0	19.4	107.29	126.71	14
.02	.00	25.84	.00	.000	.6	5996.10	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .000

STATUS: Analyzing cross-section reach 16171.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	102.00
Right Encroachment Station (ft, STENCR)	132.00
Encroachment Method (TYPE)	1
Width or Percent Target	30.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	6003.30
Right Overbank Elevation (ft, RBEL)	6003.30

16171.000	.000	.013	.000	4.63	5999.93	6002.54	5999.93
.012579	125	125	125	6009.25	9.32	1.69	.00
1.95	0	59	0	.00	6003.30	100000.00	8
1470	0	1469	0	19.9	107.05	126.95	14
.02	.00	24.50	.00	.000	.6	5995.30	0

STATUS: Analyzing cross-section reach 16139.000.

STATUS: Water surface elevation set by X5 card, 6004.010 ft MSL.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

1/20/1999

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .58

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 158.00
 Right Encroachment Station (ft, STENCR) 177.00
 Encroachment Method (TYPE) 1
 Width or Percent Target 19.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6002.60
 Right Overbank Elevation (ft, RBEL) 6002.60

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16139.000	.000	.013	.000	5.81	6000.41	6000.47	6000.41
.004289	32	32	32	6003.44	3.03	.22	.00
2.01	0	105	0	.00	6002.60	6002.60	0
1470	0	1470	0	18.1	158.02	176.98	11
.02	.00	13.96	.00	.000	.6	5994.60	0

STATUS: Analyzing cross-section reach 16010.000.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 115.00
 Right Encroachment Station (ft, STENCR) 134.00
 Encroachment Method (TYPE) 1
 Width or Percent Target 19.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6000.48
 Right Overbank Elevation (ft, RBEL) 6000.48

1/20/1999

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

16010.000	.000	.013	.000	4.62	5997.10	5998.44	5997.11
.008279	115	129	143	6002.10	4.99	.75	.59
2.28	0	81	0	.00	6000.48	6000.48	5
1470	0	1470	0	17.7	115.38	133.94	8
.02	.00	17.93	.00	.000	.7	5992.48	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 15978.000.

STATUS: Water surface elevation set by X5 card, 5997.030 ft MSL.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	102.00
Right Encroachment Station (ft, STENCR)	134.00
Encroachment Method (TYPE)	1
Width or Percent Target	32.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	6000.37
Right Overbank Elevation (ft, RBEL)	6000.37

15978.000	.000	.013	.000	5.16	5997.03	5999.11	5997.03
.008022	32	32	32	6003.70	6.67	.26	.50
2.34	0	70	0	.00	6000.37	6000.37	0
1470	0	1470	0	21.5	107.01	128.50	14
.02	.00	20.73	.00	.000	.7	5991.87	0

STATUS: Analyzing cross-section reach 15800.000.

1/20/1999

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	100.00
Right Encroachment Station (ft, STENCR)	132.00
Encroachment Method (TYPE)	1
Width or Percent Target	32.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5998.95
Right Overbank Elevation (ft, RBEL)	5998.95

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LITBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15800.000	.000	.013	.000	5.15	5995.60	5997.72	5995.60
.008028	180	178	176	6002.27	6.67	1.43	.00
2.63	0	70	0	.00	6048.90	5998.95	12
1470	0	1470	0	21.5	104.97	126.51	11
.02	.00	20.72	.00	.000	.8	5990.45	0

STATUS: Analyzing cross-section reach 15600.000.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	100.00
Right Encroachment Station (ft, STENCR)	131.00
Encroachment Method (TYPE)	1
Width or Percent Target	31.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5997.35
Right Overbank Elevation (ft, RBEL)	5997.35

15600.000	.000	.013	.000	5.15	5994.00	5996.11	5994.00
.007997	209	199	191	6000.67	6.67	1.60	.00
2.96	0	70	0	.00	6047.30	100000.00	12
1470	0	1470	0	21.4	104.90	126.33	11
.02	.00	20.73	.00	.000	.9	5988.85	0

STATUS: Analyzing cross-section reach 15400.000.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	102.00
Right Encroachment Station (ft, STENCR)	133.00
Encroachment Method (TYPE)	1
Width or Percent Target	31.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5995.75
Right Overbank Elevation (ft, RBEL)	5995.75

SECNO	XLN	XLNCH	XLNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLLOBL	XLCH	XLROBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15400.000	.000	.013	.000	5.16	5992.41	5994.52	5992.40
.008000	206	200	194	5999.07	6.66	1.60	.00
3.28	0	70	0	.00	5995.75	100000.00	12
1470	0	1470	0	21.5	107.01	128.50	11
.03	.00	20.71	.00	.000	1.0	5987.25	0

STATUS: Analyzing cross-section reach 15000.000.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	102.00
Right Encroachment Station (ft, STENCR)	134.00
Encroachment Method (TYPE)	1
Width or Percent Target	32.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5992.55
Right Overbank Elevation (ft, RBEL)	5992.55

15000.000	.000	.013	.000	5.16	5989.21	5991.32	5989.23
.007985	400	400	400	5995.86	6.65	3.20	.00
3.93	0	71	0	.00	5992.55	5992.55	8
1470	0	1470	0	21.5	107.00	128.51	11
.03	.00	20.70	.00	.000	1.2	5984.05	0

Contraction Coefficient (CCHV) .300
 Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 14650.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 147.00
 Right Encroachment Station (ft, STENCR) 178.00
 Encroachment Method (TYPE) 1
 Width or Percent Target 31.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5990.16
 Right Overbank Elevation (ft, RBEL) 5990.16

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14650.000	.000	.013	.000	5.36	5987.02	5988.92	5987.01
.006797	350	350	350	5992.91	5.89	2.57	.38
4.52	0	75	0	.00	100000.00	100000.00	5
1470	0	1470	0	22.2	151.34	173.50	11
.04	.00	19.48	.00	.000	1.4	5981.66	0

STATUS: Analyzing cross-section reach 14606.000.

STATUS: Water surface elevation set by X5 card, 5990.710 ft MSL.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .63

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	217.00
Right Encroachment Station (ft, STENCR)	236.00
Encroachment Method (TYPE)	1
Width or Percent Target	19.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5989.28
Right Overbank Elevation (ft, RBEL)	5989.28

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14606.000	.000	.013	.000	5.76	5986.96	5987.02	5986.93
.002715	48	48	48	5989.92	2.96	.20	1.47
4.62	0	106	0	.00	100000.00	5989.28	0
1470	0	1470	0	18.7	217.00	235.74	8
.04	.00	13.80	.00	.000	1.4	5981.20	0

STATUS: Analyzing cross-section reach 14317.000.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO)	2.03
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STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	177.00
Right Encroachment Station (ft, STENCR)	197.00
Encroachment Method (TYPE)	1
Width or Percent Target	20.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5988.00
Right Overbank Elevation (ft, RBEL)	5988.00

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SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

14317.000	.000	.013	.000	4.07	5981.24	5983.08	5981.26
.011141	302	302	302	5987.47	6.23	1.47	.98
5.25	0	73	0	.00	5988.00	100000.00	6
1470	0	1469	0	18.1	177.51	196.42	5
.04	.00	20.03	.00	.000	1.5	5977.17	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 14285.000.

STATUS: Water surface elevation set by X5 card, 5979.600 ft MSL.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 2.05

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	.00
Right Encroachment Station (ft, STENCR)	191.36
Encroachment Method (TYPE)	1
Width or Percent Target	191.359

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5984.66
Right Overbank Elevation (ft, RBEL)	5984.66

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SECNO	SNL	SNCH	SNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14285.000	.000	.013	.000	3.00	5979.60	5983.39	5979.60
.047033	33	32	36	6003.55	23.95	.65	5.32
5.29	0	37	0	.00	5984.66	5984.66	0
1470	0	1469	0	16.9	164.88	181.83	14
.04	.00	39.27	.00	.000	1.5	5976.60	0

STATUS: Analyzing cross-section reach 14217.000.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	102.00
Right Encroachment Station (ft, STENCR)	134.00
Encroachment Method (TYPE)	1
Width or Percent Target	32.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5981.33
Right Overbank Elevation (ft, RBEL)	5981.33

14217.000	.000	.013	.000	3.00	5976.33	5980.11	5976.33
.047196	68	68	94	6000.30	23.97	3.24	.01
5.35	0	37	0	.00	5981.33	100000.00	16
1470	0	1469	0	17.0	109.51	126.50	17
.04	.00	39.29	.00	.000	1.6	5973.33	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .300

STATUS: Analyzing cross-section reach 14193.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .43

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	102.00
Right Encroachment Station (ft, STENCR)	140.00
Encroachment Method (TYPE)	1
Width or Percent Target	38.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5980.62
Right Overbank Elevation (ft, RBEL)	5980.62

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14193.000	.000	.013	.000	3.67	5976.29	5980.15	5976.30
.025124	123	124	125	5994.78	18.49	3.88	1.64
5.50	0	71	0	.00	5980.62	100000.00	7
2470	0	2469	0	25.0	108.50	133.51	17
.04	.00	34.51	.00	.000	1.6	5972.62	0

STATUS: Analyzing cross-section reach 13706.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	102.00
Right Encroachment Station (ft, STENCR)	140.00
Encroachment Method (TYPE)	1
Width or Percent Target	38.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5977.42
Right Overbank Elevation (ft, RBEL)	5977.42

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SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

13706.000	.000	.013	.000	4.32	5973.74	5976.94	5973.74
.013823	392	385	380	5985.84	12.09	7.02	1.92
6.21	0	88	0	.00	5977.42	100000.00	7
2470	0	2469	0	27.0	107.52	134.48	17
.05	.00	27.91	.00	.000	1.8	5969.42	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .300

STATUS: Analyzing cross-section reach 13570.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	102.00
Right Encroachment Station (ft, STENCR)	140.00
Encroachment Method (TYPE)	1
Width or Percent Target	38.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5977.25
Right Overbank Elevation (ft, RBEL)	5977.25

13570.000	.000	.013	.000	4.61	5972.86	5975.93	5972.86
.011544	135	135	134	5983.77	10.91	1.71	.36
6.49	0	93	0	.00	5977.25	100000.00	10
2470	0	2469	0	26.3	107.84	134.16	14
.05	.00	26.50	.00	.000	1.9	5968.25	0

STATUS: Analyzing cross-section reach 13525.000.

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR

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SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRISW	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13405.000	.000	.013	.000	4.81	5971.24	5974.23	5971.18
.010646	116	120	123	5981.61	10.37	1.36	.24
6.84	0	95	0	.00	5975.43	100000.00	9
2470	0	2469	0	19.9	164.11	184.00	14
.05	.00	25.85	.00	.000	2.0	5966.43	0

STATUS: Analyzing cross-section reach 13280.000.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	175.00
Right Encroachment Station (ft, STENCR)	196.00
Encroachment Method (TYPE)	1
Width or Percent Target	21.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5974.39
Right Overbank Elevation (ft, RBEL)	5974.40

13280.000	.000	.013	.000	4.87	5970.26	5973.13	5970.26
.010059	119	124	129	5980.20	9.95	1.28	.13
7.11	0	97	0	.00	5974.39	5974.40	13
2470	0	2469	0	20.1	175.46	195.59	14
.05	.00	25.31	.00	.000	2.1	5965.39	0

STATUS: Analyzing cross-section reach 13205.000.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	209.00
Right Encroachment Station (ft, STENCR)	229.00
Encroachment Method (TYPE)	1
Width or Percent Target	20.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5972.95
Right Overbank Elevation (ft, RBEL)	5972.95

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SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRISW	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13205.000	.000	.013	.000	4.94	5968.89	5971.90	5968.90
.010540	78	75	73	5979.29	10.40	.78	.14
7.28	0	95	0	.00	5972.95	100000.00	16
2470	0	2469	0	19.4	209.64	229.00	14
.05	.00	25.88	.00	.000	2.1	5963.95	0

STATUS: Analyzing cross-section reach 13105.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	188.00
Right Encroachment Station (ft, STENCR)	208.00
Encroachment Method (TYPE)	1
Width or Percent Target	20.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5971.03
Right Overbank Elevation (ft, RBEL)	5971.03

13105.000	.000	.013	.000	4.67	5966.70	5969.89	5966.69
.011883	103	99	90	5977.93	11.23	1.11	.25
7.49	0	91	0	.00	5971.03	100000.00	14
2470	0	2469	0	19.7	188.33	208.00	14
.05	.00	26.89	.00	.000	2.1	5962.03	0

STATUS: Analyzing cross-section reach 13036.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	101.00
Right Encroachment Station (ft, STENCR)	121.00
Encroachment Method (TYPE)	1
Width or Percent Target	20.000

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STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5969.67
 Right Overbank Elevation (ft, RBEL) 5969.67

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13036.000	.000	.013	.000	4.52	5965.12	5968.40	5965.13
.012867	72	69	67	5976.90	11.78	.86	.16
7.64	0	89	0	100000.00	100000.00		17
2470	0	2469	0	20.0	101.00	121.00	14
.06	.00	27.54	.00	.000	2.2	5960.60	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 13000.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.69

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 100.00
 Right Encroachment Station (ft, STENCR) 170.00
 Encroachment Method (TYPE) 1
 Width or Percent Target 70.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5964.75
 Right Overbank Elevation (ft, RBEL) 5964.75

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR

PROJECT NUMBER : 67.42167.08

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Cross- Section Number	Channel Reach Length (ft)	Top of Roadway Elevation (ft MSL)	Max. Low Chord Elevation (ft MSL)	Minimum C. S. Elevation (ft MSL)	Discharge Flow (cfs)	Computed W. S. Elevation (ft MSL)	Critical W. S. Elevation (ft MSL)	Energy Gradient Elevation (ft MSL)	Energy Gradient Slope * 10,000	Channel Mean Flow Velocity (ft/s)	Cross- Section Area (sq ft)	Index Q (0.01 * Convey.) .01K
SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	
16920.000	8.00	.00	.00	6004.95	1470.00	6009.53	6012.23	6019.17	131.42	24.91	59.02	128.23
16920.000	8.00	.00	.00	6004.95	1470.00	6009.53	6012.23	6019.17	131.43	24.91	59.02	128.23
16728.000	192.00	.00	.00	6003.72	1470.00	6008.52	6010.96	6016.88	108.54	23.20	63.37	141.10
16728.000	192.00	.00	.00	6003.72	1470.00	6008.52	6010.97	6016.88	108.55	23.20	63.36	141.09
16720.000	8.00	.00	.00	6001.72	1470.00	6006.16	6008.96	6016.78	149.86	26.15	56.22	120.08
16720.000	8.00	.00	.00	6001.72	1470.00	6006.16	6008.96	6016.78	149.87	26.15	56.22	120.08
16516.000	204.00	.00	.00	6000.41	1470.00	6005.11	6007.66	6014.06	119.09	24.01	61.22	134.70
16516.000	204.00	.00	.00	6000.41	1470.00	6005.11	6007.66	6014.06	119.10	24.01	61.22	134.70
16508.000	8.00	.00	.00	5998.41	1470.00	6002.77	6005.66	6013.95	160.62	26.83	54.79	115.99
16508.000	8.00	.00	.00	5998.41	1470.00	6002.78	6005.65	6013.95	160.55	26.82	54.80	116.01
16303.000	205.00	.00	.00	5997.10	1470.00	6001.74	6004.35	6011.05	125.57	24.49	60.03	131.18
16303.000	205.00	.00	.00	5997.10	1470.00	6001.74	6004.35	6011.05	125.57	24.49	60.03	131.18
16295.000	8.00	.00	.00	5996.10	1470.00	6000.57	6003.35	6010.94	145.14	25.84	56.89	122.02
16295.000	8.00	.00	.00	5996.10	1470.00	6000.57	6003.35	6010.94	145.14	25.84	56.89	122.02
16171.000	125.00	.00	.00	5995.30	1470.00	5999.93	6002.55	6009.26	125.78	24.50	59.99	131.07
16171.000	125.00	.00	.00	5995.30	1470.00	5999.93	6002.54	6009.25	125.79	24.50	59.99	131.07
* 16139.000	32.00	.00	.00	5994.60	1470.00	6000.41	6000.47	6003.44	42.97	13.97	105.24	224.26
* 16139.000	32.00	.00	.00	5994.60	1470.00	6000.41	6000.47	6003.44	42.89	13.96	105.31	224.45
16010.000	129.42	.00	.00	5992.48	1470.00	5997.11	5998.44	6002.10	82.77	17.93	81.99	161.58
16010.000	129.42	.00	.00	5992.48	1470.00	5997.10	5998.44	6002.10	82.79	17.93	81.98	161.56
* 15978.000	32.00	.00	.00	5991.87	1470.00	5997.03	5999.11	6003.70	80.22	20.73	70.91	164.13
* 15978.000	32.00	.00	.00	5991.87	1470.00	5997.03	5999.11	6003.70	80.22	20.73	70.91	164.13
15800.000	178.33	.00	.00	5990.45	1470.00	5995.60	5997.72	6002.27	80.28	20.72	70.93	164.06
15800.000	178.33	.00	.00	5990.45	1470.00	5995.60	5997.72	6002.27	80.28	20.72	70.93	164.06
15600.000	199.59	.00	.00	5988.85	1470.00	5994.00	5996.11	6000.67	79.97	20.73	70.93	164.38
15600.000	199.59	.00	.00	5988.85	1470.00	5994.00	5996.11	6000.67	79.97	20.73	70.93	164.38
15400.000	200.00	.00	.00	5987.25	1470.00	5992.40	5994.52	5999.07	80.03	20.71	70.97	164.32
15400.000	200.00	.00	.00	5987.25	1470.00	5992.41	5994.52	5999.07	80.00	20.71	70.98	164.35
15000.000	400.00	.00	.00	5984.05	1470.00	5989.23	5991.32	5995.86	79.56	20.67	71.12	164.80
15000.000	400.00	.00	.00	5984.05	1470.00	5989.21	5991.32	5995.86	79.85	20.70	71.03	164.51

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Cross- Section Number	Channel Reach Length (ft)	Top of Roadway Elevation (ft MSL)	Max. Low Chord Elevation (ft MSL)	Minimum C. S. Elevation (ft MSL)	Discharge Flow (cfs)	Computed W. S. Elevation (ft MSL)	Critical W. S. Elevation (ft MSL)	Energy Gradient Elevation (ft MSL)	Energy Gradient Slope * 10,000 10K*S	Channel Mean Flow Velocity (ft/s)	Cross- Section Area (sq ft)	Index Q (0.01 * Convey.) .01K
SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRISWS	EG		VCH	AREA	
14650.000	350.00	.00	.00	5981.66	1470.00	5987.01	5988.92	5992.92	68.31	19.52	75.33	177.86
14650.000	350.00	.00	.00	5981.66	1470.00	5987.02	5988.92	5992.91	67.97	19.48	75.47	178.30
* 14606.000	48.28	.00	.00	5981.20	1470.00	5986.93	5986.98	5989.86	26.95	13.75	106.88	283.14
* 14606.000	48.28	.00	.00	5981.20	1470.00	5986.96	5987.02	5989.92	27.15	13.80	106.49	282.14
* 14317.000	302.00	.00	.00	5977.17	1470.00	5981.26	5983.06	5987.43	110.12	19.95	73.70	140.08
* 14317.000	302.00	.00	.00	5977.17	1470.00	5981.24	5983.08	5987.47	111.41	20.03	73.38	139.27
* 14285.000	32.38	.00	.00	5976.60	1470.00	5979.60	5983.39	6003.55	470.33	39.27	37.43	67.78
* 14285.000	32.38	.00	.00	5976.60	1470.00	5979.60	5983.39	6003.55	470.33	39.27	37.43	67.78
14217.000	68.79	.00	.00	5973.33	1470.00	5976.33	5980.11	6000.30	471.95	39.29	37.41	67.67
14217.000	68.79	.00	.00	5973.33	1470.00	5976.33	5980.11	6000.30	471.96	39.29	37.41	67.67
* 14193.000	124.95	.00	.00	5972.62	2470.00	5976.30	5980.14	5994.78	251.00	34.49	71.61	155.91
* 14193.000	124.95	.00	.00	5972.62	2470.00	5976.29	5980.15	5994.78	251.24	34.51	71.58	155.83
13706.000	385.24	.00	.00	5969.42	2470.00	5973.74	5976.92	5985.84	138.29	27.91	88.50	210.04
13706.000	385.24	.00	.00	5969.42	2470.00	5973.74	5976.94	5985.84	138.23	27.91	88.51	210.08
13570.000	135.58	.00	.00	5968.25	2470.00	5972.86	5975.93	5983.78	115.57	26.51	93.17	229.76
13570.000	135.58	.00	.00	5968.25	2470.00	5972.86	5975.93	5983.77	115.44	26.50	93.21	229.89
13525.000	40.00	.00	.00	5967.42	2470.00	5972.02	5975.18	5983.22	119.55	26.86	91.97	225.90
13525.000	40.00	.00	.00	5967.42	2470.00	5972.03	5975.19	5983.21	119.36	26.84	92.02	226.08
13405.000	120.36	.00	.00	5966.43	2470.00	5971.18	5974.19	5981.63	107.96	25.94	95.21	237.72
13405.000	120.36	.00	.00	5966.43	2470.00	5971.24	5974.23	5981.61	106.46	25.85	95.56	239.39
13280.000	124.07	.00	.00	5965.39	2470.00	5970.26	5973.13	5980.18	100.23	25.28	97.70	246.71
13280.000	124.07	.00	.00	5965.39	2470.00	5970.26	5973.13	5980.20	100.59	25.31	97.59	246.28
13205.000	75.52	.00	.00	5963.95	2470.00	5968.90	5971.90	5979.27	105.03	25.85	95.56	241.02
13205.000	75.52	.00	.00	5963.95	2470.00	5968.89	5971.90	5979.29	105.40	25.88	95.44	240.59
13105.000	99.51	.00	.00	5962.03	2470.00	5966.69	5969.88	5977.91	118.58	26.88	91.90	226.82
13105.000	99.51	.00	.00	5962.03	2470.00	5966.70	5969.89	5977.93	118.83	26.89	91.85	226.58
13036.000	69.75	.00	.00	5960.60	2470.00	5965.13	5968.40	5976.89	128.34	27.52	89.75	218.03
13036.000	69.75	.00	.00	5960.60	2470.00	5965.12	5968.40	5976.90	128.67	27.54	89.68	217.75
* 13000.000	37.09	.00	.00	5959.75	2470.00	5961.56	5964.12	5975.48	366.66	29.95	82.48	128.99
* 13000.000	37.09	.00	.00	5959.75	2470.00	5961.57	5964.12	5975.50	367.00	29.96	82.45	128.93

SUMMARY PRINTOUT TABLE 150 : PETERSON FIELD DRAINAGE BASIN LOMR

----- SECT.13000/17150 SPRCRIT/FWSP4E3.*

67.42167.08

Cross- Section Number	Discharge Flow (cfs) Q	Computed W. S. Elevation (ft MSL) CWSEL	W.S. Elev Diff per Profile (ft) DIFWSP	W.S. Elev Diff per Section (ft) DIFWSX	W.S. Elev Diff per Know/Comp (ft) DIFKWS	Water Surface Top Width (ft) TOPWID	Channel Reach Length (ft) XLCH
SECNO							
17510.000	1470.00	6019.11	.00	.00	.00	22.81	.00
17510.000	1470.00	6019.11	.00	.00	.00	22.81	.00
17383.000	1470.00	6018.33	.00	-.77	.00	22.76	128.54
17383.000	1470.00	6018.34	.00	-.77	.00	22.76	128.54
17375.000	1470.00	6015.65	.00	-2.69	.00	20.70	5.00
17375.000	1470.00	6015.65	.00	-2.68	.00	20.70	5.00
17178.000	1470.00	6014.56	.00	-1.09	.00	21.17	195.78
17178.000	1470.00	6014.56	.00	-1.09	.00	21.17	195.78
17174.000	1470.00	6013.31	.00	-1.25	.00	20.42	4.00
17174.000	1470.00	6013.31	.00	-1.25	.00	20.42	4.00
16928.000	1470.00	6011.98	.00	-1.33	.00	21.06	242.00
16928.000	1470.00	6011.98	.00	-1.33	.00	21.06	242.00
16920.000	1470.00	6009.53	.00	-2.44	.00	19.75	8.00
16920.000	1470.00	6009.53	.00	-2.44	.00	19.75	8.00
16728.000	1470.00	6008.52	.00	-1.01	.00	20.40	192.00
16728.000	1470.00	6008.52	.00	-1.01	.00	20.40	192.00
16720.000	1470.00	6006.16	.00	-2.36	.00	19.32	8.00
16720.000	1470.00	6006.16	.00	-2.36	.00	19.32	8.00
16516.000	1470.00	6005.11	.00	-1.05	.00	20.08	204.00
16516.000	1470.00	6005.11	.00	-1.05	.00	20.08	204.00
16508.000	1470.00	6002.77	.00	-2.33	.00	19.10	8.00
16508.000	1470.00	6002.78	.00	-2.33	.00	19.10	8.00
16303.000	1470.00	6001.74	.00	-1.04	.00	19.90	205.00
16303.000	1470.00	6001.74	.00	-1.04	.00	19.90	205.00
16295.000	1470.00	6000.57	.00	-1.16	.00	19.43	8.00

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR

PROJECT NUMBER : 67.42167.08

1/20/1999

Cross- Section Number	Discharge Flow (cfs) Q	Computed W. S. Elevation (ft MSL) CWSEL	W.S. Elev Diff per Profile (ft) DIFWSP	W.S. Elev Diff per Section (ft) DIFWSX	W.S. Elev Diff per Know/Comp (ft) DIFKWS	Water Surface Top Width (ft) TOPWID	Channel Reach Length (ft) XLCH
SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
16295.000	1470.00	6000.57	.00	-1.16	.00	19.42	8.00
16171.000	1470.00	5999.93	.00	-.64	.00	19.90	125.00
16171.000	1470.00	5999.93	.00	-.64	.00	19.90	125.00
* 16139.000	1470.00	6000.41	.00	.48	.00	18.12	32.00
* 16139.000	1470.00	6000.41	.00	.48	.00	18.12	32.00
16010.000	1470.00	5997.11	.00	-3.30	.00	17.72	129.42
16010.000	1470.00	5997.10	.00	-3.31	.00	17.72	129.42
* 15978.000	1470.00	5997.03	.00	-.08	.00	21.49	32.00
* 15978.000	1470.00	5997.03	.00	-.07	.00	21.49	32.00
15800.000	1470.00	5995.60	.00	-1.43	.00	21.54	178.33
15800.000	1470.00	5995.60	.00	-1.43	.00	21.54	178.33
15600.000	1470.00	5994.00	.00	-1.60	.00	21.43	199.59
15600.000	1470.00	5994.00	.00	-1.60	.00	21.43	199.59
15400.000	1470.00	5992.40	.00	-1.60	.00	21.49	200.00
15400.000	1470.00	5992.41	.00	-1.59	.00	21.49	200.00
15000.000	1470.00	5989.23	.00	-3.18	.00	21.51	400.00
15000.000	1470.00	5989.21	-.01	-3.19	-.01	21.50	400.00
14650.000	1470.00	5987.01	.00	-2.22	.00	22.15	350.00
14650.000	1470.00	5987.02	.01	-2.19	.01	22.17	350.00
* 14606.000	1470.00	5986.93	.00	-.08	.00	18.93	48.28
* 14606.000	1470.00	5986.96	.04	-.05	.04	18.74	48.28
* 14317.000	1470.00	5981.26	.00	-5.67	.00	18.06	302.00
* 14317.000	1470.00	5981.24	-.02	-5.72	-.02	18.06	302.00
* 14285.000	1470.00	5979.60	.00	-1.66	.00	16.94	32.38
* 14285.000	1470.00	5979.60	.00	-1.64	.00	16.94	32.38
14217.000	1470.00	5976.33	.00	-3.27	.00	16.99	68.79
14217.000	1470.00	5976.33	.00	-3.27	.00	16.99	68.79
* 14193.000	2470.00	5976.30	.00	-.03	.00	25.02	124.95
* 14193.000	2470.00	5976.29	-.01	-.05	-.01	25.02	124.95