

REC-2 RELEASE DATED NOV 56 UPDATED AUG 77

MODIFICATION - 50, 51, 52, 53

T1-ORANG
T2-LITTL
T3

J1-ICHE

J2-NPRC

J3-VARI

38

15

54

NC
DT

X1-13482
GR 51
GR 46
GR 48

X1-13521
NC
DT
ET

X1
GR 49
GR 47
GR 47
GR 48
ET

LITTLE CREEK

X1	580,000	0,000	0,000	0,000	360,000	380,000	380,000	0,000	5,200	0,000
ET	0,000	0,000	0,000	10,000	0,000	7,100	217,000	277,000	0,000	0,000

26

 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77
 ERROR CORR - 01,02
 MODIFICATION - 50,51,52,53

ORANGE CO FIS LITTLE CR.
 T1 ORANGE COUNTY FIA STUDY
 T2 LITTLE CREEK
 T3 10 YR NATURAL

U1	ICHECK	INO	NIHV	IDIR	STRT	METRIC	HVINS	D	WBEL	FU
	0.	2.	0.	0.	0.000000	0.00	0.0	0.	473,240	0.000
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	38.000	1.000	3.000	41.000	42.000	0.000	38.000	1.000	13.000	14.000
	15.000	55.000	26.000	56.000	0.000	38.000	1.000	53.000	21.000	22.000
	54.000	4.000	0.000	150.000	201.000	0.000	0.000	0.000	0.000	0.000
NC	0.100	0.100	0.050	0.100	0.300	0.000	0.000	0.000	0.000	0.000
DT	5.000	3660.000	4240.000	4580.000	5650.000	4580.000	0.000	0.000	0.000	0.000
X1	154820.000	14.000	1000.000	1060.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	510.000	730.000	500.000	830.000	490.000	890.000	480.000	940.000	469.000	1000.000
GR	465.500	1005.000	462.500	1020.000	464.500	1050.000	468.000	1060.000	470.000	1120.000
GR	480.000	1180.000	490.000	1270.000	500.000	1330.000	510.000	1390.000	0.000	0.000
X1	135210.000	0.000	0.000	0.000	390.000	390.000	390.000	0.000	1.100	0.000
NC	0.120	0.120	0.060	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DT	5.000	660.000	1240.000	1580.000	2650.000	1580.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	213.000	313.000	0.000	0.000
X1	1.000	17.000	217.000	260.000	1.000	1.000	1.000	0.000	-5.200	0.000
GR	490.800	0.000	490.600	36.000	488.200	100.000	487.300	142.000	480.000	200.000
GR	478.900	217.000	477.200	230.000	471.400	239.000	469.500	247.000	468.800	251.000
GR	471.000	258.000	477.400	260.000	476.300	300.000	478.200	358.000	481.500	400.000
GR	484.000	423.000	487.400	500.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	50.200	0.000	0.000	0.000	0.000

**** DL-1

X1	380.000	0.000	0.000	0.000	380.000	380.000	380.000	0.000	5.200	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	217.000	277.000	0.000	0.000

26

SHEET 001

3

X1	440.000	0.000	0.000	0.000	60.000	60.000	60.000	0.000	0.500	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	217.000	277.000	0.000	0.000
X1	500.000	0.000	0.000	0.000	60.000	60.000	60.000	0.000	0.500	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	993.000	1053.000	0.000	0.000
X1	550.000	10.000	993.000	1038.000	50.000	50.000	50.000	0.000	0.000	0.000
GR	490.000	885.000	481.000	930.000	480.500	993.000	478.900	1006.000	473.200	1015.000
GR	470.500	1028.000	472.700	1036.000	479.200	1038.000	482.500	1120.000	490.000	1200.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	993.000	1053.000	0.000	0.000
X1	600.000	0.000	0.000	0.000	50.000	50.000	50.000	0.000	0.500	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	993.000	1053.000	0.000	0.000
X1	650.000	0.000	0.000	0.000	50.000	50.000	50.000	0.000	0.500	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	993.000	1058.000	0.000	0.000
X1	700.000	11.000	993.000	1038.000	50.000	50.000	50.000	0.000	0.000	0.000
GR	500.000	830.000	484.000	920.000	482.000	993.000	480.400	1006.000	474.700	1015.000
GR	472.000	1028.000	474.200	1036.000	480.700	1038.000	481.000	1130.000	485.000	1150.000
GR	500.000	1400.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	993.000	1058.000	0.000	0.000
X1	750.000	0.000	0.000	0.000	50.000	50.000	50.000	0.000	0.500	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	980.000	1060.000	0.000	0.000
X1	800.000	8.000	1000.000	1030.000	50.000	50.000	50.000	0.000	0.000	0.000
GR	490.000	875.000	481.000	925.000	477.000	1000.000	473.500	1010.000	473.000	1025.000
GR	477.000	1030.000	481.000	1155.000	490.000	1210.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	980.000	1060.000	0.000	0.000
X1	850.000	0.000	0.000	0.000	50.000	50.000	50.000	0.000	0.500	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.400	0.000	0.000	0.000	0.000
X1	900.000	10.000	1000.000	1030.000	50.000	50.000	50.000	0.000	0.000	0.000
GR	500.000	800.000	490.000	850.000	482.000	900.000	478.000	1000.000	474.500	1010.000
GR	474.000	1025.000	478.000	1030.000	482.000	1185.000	490.000	1235.000	500.000	1315.000
X1	1000.000	0.000	0.000	0.000	100.000	100.000	100.000	0.000	1.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.400	0.000	0.000	0.000	0.000
X1	1100.000	0.000	0.000	0.000	100.000	100.000	100.000	0.000	1.000	0.000
X1	1580.000	8.000	1000.000	1030.000	480.000	480.000	480.000	0.000	0.000	0.000
GR	500.000	850.000	487.000	910.000	484.500	1000.000	481.000	1010.000	480.500	1025.000
GR	484.500	1030.000	487.000	1100.000	500.000	1195.000	0.000	0.000	0.000	0.000
UT	5.000	574.000	1085.000	1382.000	2325.000	1382.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	987.000	1037.000	0.000	0.000
X1	2150.000	14.000	1000.000	1027.000	570.000	570.000	570.000	0.000	2.100	0.000
GR	512.000	573.000	508.000	673.000	503.400	785.000	497.300	885.000	492.800	985.000
GR	492.400	1000.000	488.700	1011.000	488.400	1018.000	488.400	1023.000	492.700	1027.000
GR	485.100	1085.000	508.000	1157.000	510.000	1185.000	515.000	1237.000	0.000	0.000

FIELD NO. 1000

NC	0.0/0	0.000	0.000	0.300	0.500	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.400	0.000	0.000	0.000	0.000
X1	2255.000	16.000	1006.000	1027.000	105.000	105.000	105.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	496.800	496.700	0.000
GR	512.000	573.000	508.000	673.000	503.400	785.000	497.300	885.000	492.800	985.000
GR	492.200	1006.000	468.000	1006.100	487.200	1011.000	487.200	1016.000	487.500	1021.000
GR	487.700	1026.900	492.700	1027.000	495.100	1085.000	508.600	1153.000	510.600	1185.000
GR	515.600	1232.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SB	0.000	1.600	2.800	0.000	19.600	0.100	175.000	0.090	487.400	487.200

DL-2 ST. MARY'S ROAD, BR 1002

X1	2285.000	0.000	0.000	0.000	30.000	30.000	30.000	0.000	0.200	0.000
X2	0.000	0.000	1.000	495.800	497.600	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	497.800	497.600	0.000
BT	12.000	573.000	512.000	0.000	673.000	508.000	0.000	785.000	503.400	0.000
BT	873.900	500.600	0.000	973.000	498.000	0.000	1006.000	497.800	0.000	1027.000
BT	497.800	0.000	1073.000	497.600	0.000	1103.000	498.700	0.000	1153.000	508.600
BT	0.000	1185.000	510.600	0.000	1232.000	515.600	0.000	0.000	0.000	0.000

DL-3 VALLEY

X1	2380.000	14.000	1000.000	1027.000	95.000	95.000	95.000	0.000	0.000	0.000
GR	512.000	573.000	508.000	673.000	503.400	785.000	497.300	885.000	492.800	985.000
GR	492.400	1000.000	488.700	1011.000	488.400	1018.000	488.400	1023.000	492.700	1027.000
GR	495.100	1085.000	506.600	1153.000	510.600	1185.000	515.600	1232.000	0.000	0.000
NC	0.000	0.000	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000

X1	2500.000	0.000	0.000	0.000	120.000	120.000	120.000	0.000	0.800	0.000
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X1	3120.000	10.000	1000.000	1023.000	620.000	620.000	620.000	0.000	0.000	0.000
GR	520.000	750.000	510.000	890.000	497.500	985.000	497.500	1000.000	493.800	1005.000
GR	493.800	1017.000	497.500	1023.000	500.000	1125.000	510.000	1200.000	520.000	1270.000

X1	4620.000	4.000	1000.000	1016.000	1500.000	1500.000	1500.000	0.000	0.000	0.000
GR	530.000	780.000	520.000	890.000	508.000	975.000	507.500	1000.000	504.500	1005.000
GR	504.500	1012.000	507.500	1016.000	508.000	1035.000	530.000	1200.000	0.000	0.000

DL-4 VALLEY

X1	5810.000	13.000	1000.000	1011.000	1190.000	1190.000	1190.000	0.000	0.000	0.000
GR	538.300	591.000	530.900	691.000	521.100	773.000	520.100	791.000	518.500	891.000
GR	517.600	991.000	517.400	1000.000	514.000	1001.000	513.000	1004.000	513.800	1008.000
GR	515.300	1011.000	529.300	1091.000	536.800	1141.000	0.000	0.000	0.000	0.000
QT	5.000	394.000	753.000	962.000	1631.000	962.000	0.000	0.000	0.000	0.000

X1	6000.000	8.000	1000.000	1015.000	190.000	190.000	190.000	0.000	0.000	0.000
GR	540.000	700.000	520.000	900.000	518.500	1000.000	515.000	1005.000	515.000	1010.000
GR	518.500	1015.000	519.000	1040.000	540.000	1180.000	0.000	0.000	0.000	0.000

X1	6150.000	10.000	1000.000	1015.000	150.000	150.000	150.000	0.000	0.000	0.000
GR	540.000	770.000	530.000	890.000	520.000	960.000	519.500	1000.000	516.300	1005.000
GR	516.300	1010.000	519.500	1015.000	520.000	1060.000	530.000	1130.000	540.000	1230.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	973.000	1023.000	0.000	0.000

X1	7400.000	14.000	1000.000	1020.000	1250.000	1250.000	1250.000	0.000	2.300	0.000
GR	557.300	517.000	551.000	617.000	546.400	717.000	540.600	817.000	537.000	853.000
GR	534.600	917.000	534.700	1000.000	530.500	1006.000	530.300	1012.000	530.700	1017.000
GR	54.000	1020.000	547.300	1117.000	552.100	1217.000	555.100	1276.000	0.000	6.000
VC	0.000	0.000	0.000	0.300	0.500	0.000	0.000	0.000	0.000	0.000
BT	0.000	0.000	0.000	0.000	0.000	8.400	0.000	0.000	0.000	0.000

X1	7530.000	13.000	1005.000	1018.000	130.000	130.000	130.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	536.900	536.500
GR	555.000	600.000	550.700	684.000	546.500	784.000	534.500	917.000	534.700	1005.000
GR	531.200	1005.100	529.400	1010.000	529.300	1015.000	529.600	1017.900	534.300	1018.000
GR	547.300	1117.000	552.100	1217.000	555.100	1276.000	0.000	0.000	0.000	0.000
SA	0.000	1.600	2.800	0.000	10.400	0.100	85.000	0.250	529.300	529.500

OL-5 FARM ROAD

X1	7550.000	0.000	0.000	0.000	20.000	20.000	20.000	0.000	0.200	0.000
X2	0.000	0.000	1.000	536.300	537.200	0.000	0.000	0.000	0.000	0.000
BT	13.000	600.000	555.000	0.000	684.000	550.700	0.000	784.000	546.500	0.000
BT	884.000	541.100	0.000	934.000	538.600	0.000	984.000	537.700	0.000	1005.000
BT	537.600	0.000	1018.000	537.200	0.000	1084.000	539.300	0.000	1095.000	544.400
BT	0.000	1117.000	547.300	0.000	1217.000	552.100	0.000	1276.000	555.100	0.000

OL-6 VALLEY

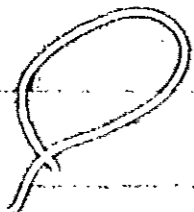
X1	7630.000	14.000	1000.000	1020.000	80.000	80.000	80.000	0.000	0.000	0.000
GR	557.300	517.000	551.000	617.000	546.400	717.000	540.600	817.000	537.000	853.000
GR	534.600	917.000	534.700	1000.000	530.500	1006.000	530.300	1012.000	530.700	1017.000
GR	534.000	1020.000	547.300	1117.000	552.100	1217.000	555.100	1276.000	0.000	0.000
EJ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

See Notes to Financial Statements 01/1/01/04

HEC2 RELEASE DATED NOV 76 UPDATED AUG 77
ERROR CORR - 01,02
MODIFICATION - 50,51,52,53

T1 ORANGE COUNTY FIA STUDY
T2 LITTLE CREEK
T3 50 YR NATURAL

J1	ICHECK	IND	NINV	IDIR	STRT	METHIC	HVINS	D	WSEL	FB
	0.	3.	0.	0.	0.000000	0.00	0.0	0.	473.930	0.000
J2	NPROF	IPLDT	PROVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2.000	0.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



6010124

 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77
 EPRDR CORR - 01,02
 MODIFICATION - 50,51,52,53

NOTE - ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

10-YR-NATURAL

SUMMARY PRINTOUT

SECNO	CWSEL	FC	ELLC	ELMIN
134820.000	473.24	473.70	0.00	462.50
134820.000	473.93	474.42	0.00	462.50
134820.000	474.28	474.80	0.00	462.50
134820.000	475.38	475.95	0.00	462.50
135210.000	474.13	474.62	0.00	463.60
135210.000	474.81	475.34	0.00	463.60
135210.000	475.16	475.71	0.00	463.60
135210.000	476.25	476.86	0.00	463.60
1.000	474.63	474.67	0.00	463.60
1.000	475.28	475.38	0.00	463.60
1.000	475.62	475.76	0.00	463.60
1.000	476.68	476.90	0.00	463.60
380.000	474.81	475.44	0.00	468.80
380.000	475.58	477.15	0.00	468.80
380.000	475.91	478.12	0.00	468.80
380.000	478.52	480.07	0.00	468.80
440.000	475.58	476.19	0.00	469.50
440.000	477.38	478.38	0.00	469.50
440.000	478.62	479.46	0.00	469.50
440.000	480.35	481.07	0.00	469.50
500.000	476.32	476.90	0.00	470.10
500.000	478.34	479.19	0.00	470.10
500.000	479.46	480.17	0.00	470.10
500.000	480.99	481.70	0.00	470.10
550.000	476.93	477.38	0.00	470.50
550.000	479.05	479.74	0.00	470.50
550.000	479.95	480.74	0.00	470.50
550.000	481.20	482.48	0.00	470.50
600.000	477.34	477.81	0.00	471.00
600.000	479.51	480.21	0.00	471.00
600.000	480.51	481.29	0.00	471.00
600.000	482.16	483.16	0.00	471.00

STEELING LABORATORY, INC.

SECNO	CWSEL	EG	ELLC	ELMIN
650.000	477.78	478.26	0.00	471.50
650.000	479.98	480.68	0.00	471.50
650.000	481.05	481.82	0.00	471.50
650.000	482.75	483.71	0.00	471.50
700.000	478.23	478.73	0.00	472.00
700.000	480.45	481.16	0.00	472.00
700.000	481.69	482.32	0.00	472.00
700.000	483.61	484.16	0.00	472.00
750.000	478.70	479.21	0.00	472.50
750.000	480.92	481.64	0.00	472.50
750.000	482.13	482.78	0.00	472.50
750.000	483.91	484.52	0.00	472.50
800.000	479.29	479.48	0.00	473.00
800.000	481.73	481.84	0.00	473.00
800.000	482.86	482.95	0.00	473.00
800.000	484.58	484.69	0.00	473.00
850.000	479.41	479.66	0.00	473.50
850.000	481.78	481.94	0.00	473.50
850.000	482.90	483.02	0.00	473.50
850.000	484.63	484.76	0.00	473.50
900.000	479.61	479.89	0.00	474.00
900.000	481.08	482.04	0.00	474.00
900.000	482.98	483.09	0.00	474.00
900.000	484.72	484.83	0.00	474.00
1000.000	480.15	480.56	0.00	475.00
1000.000	482.09	482.39	0.00	475.00
1000.000	483.11	483.33	0.00	475.00
1000.000	484.84	485.02	0.00	475.00
1100.000	480.98	481.46	0.00	476.00
1100.000	482.53	483.01	0.00	476.00
1100.000	483.39	483.78	0.00	476.00
1100.000	485.05	485.34	0.00	476.00
1580.000	485.51	485.98	0.00	480.50
1580.000	486.62	487.29	0.00	480.50
1580.000	486.95	487.78	0.00	480.50
1580.000	487.84	488.90	0.00	480.50
2150.000	491.16	491.66	0.00	486.30
2150.000	492.57	493.18	0.00	486.30
2150.000	493.24	493.83	0.00	486.30
2150.000	494.62	495.24	0.00	486.30
2255.000	492.27	492.77	0.00	487.20
2255.000	493.67	494.75	0.00	487.20
2255.000	494.16	495.66	0.00	487.20
2255.000	494.87	498.34	0.00	487.20

SECNO CWSEL EG ELLC ELMIN

2285.000	492.27	492.82	495.80	487.40
2285.000	493.67	494.82	495.80	487.40
2285.000	494.16	495.75	495.80	487.40
2285.000	498.26	498.50	495.80	487.40
2380.000	493.39	493.84	0.00	488.40
2380.000	495.53	495.85	0.00	488.40
2380.000	496.57	496.81	0.00	488.40
2380.000	498.56	498.77	0.00	488.40
2500.000	494.46	494.83	0.00	489.20
2500.000	496.09	496.47	0.00	489.20
2500.000	496.96	497.28	0.00	489.20
2500.000	498.85	499.12	0.00	489.20
3120.000	498.92	499.29	0.00	493.80
3120.000	500.10	500.56	0.00	493.80
3120.000	500.50	501.02	0.00	493.80
3120.000	501.72	502.29	0.00	493.80
4620.000	509.86	510.18	0.00	504.50
4620.000	511.27	511.65	0.00	504.50
4620.000	511.97	512.36	0.00	504.50
4620.000	513.50	513.99	0.00	504.50
5810.000	519.17	519.48	0.00	515.00
5810.000	520.18	520.45	0.00	515.00
5810.000	520.60	520.86	0.00	515.00
5810.000	521.82	522.04	0.00	515.00
6000.000	520.47	520.60	0.00	515.00
6000.000	521.41	521.56	0.00	515.00
6000.000	521.82	521.98	0.00	515.00
6000.000	522.90	523.10	0.00	515.00
6150.000	521.14	521.33	0.00	516.30
6150.000	522.12	522.34	0.00	516.30
6150.000	522.55	522.80	0.00	516.30
6150.000	523.68	523.99	0.00	516.30
7400.000	532.50	532.87	0.00	528.00
7400.000	533.33	533.48	0.00	528.00
7400.000	533.76	534.39	0.00	528.00
7400.000	534.81	535.41	0.00	528.00
7530.000	534.37	535.05	0.00	529.30
7530.000	535.54	536.35	0.00	529.30
7530.000	535.90	536.75	0.00	529.30
7530.000	536.79	537.71	0.00	529.30
7550.000	534.37	535.11	536.30	529.50
7550.000	537.33	537.47	536.30	529.50
7550.000	538.20	538.31	536.30	529.50
7550.000	539.56	539.50	536.30	529.50

SECNO	CHSEL	EG	ELLC	ELMIN
7630.000	535.69	535.85	0.00	530.30
7630.000	537.59	537.67	0.00	530.30
7630.000	538.40	538.47	0.00	530.30
7630.000	539.60	539.70	0.00	530.30

10 YR NATURAL

SUMMARY PRINTOUT

SECNO	CWSEL	QLOB	QCH	QRUB	VLOB	VCH	VROB
134820.000	473.24	56.03	3107.36	496.61	1.14	5.86	1.74
134820.000	473.93	83.45	3508.79	647.76	1.26	6.13	1.89
134820.000	474.28	100.66	3743.05	736.29	1.32	6.31	1.98
134820.000	475.38	166.19	4448.14	1035.67	1.50	6.75	2.21
135210.000	474.13	51.04	3134.17	474.79	1.16	6.06	1.77
135210.000	474.81	77.12	3538.60	624.28	1.28	6.34	1.93
135210.000	475.16	93.88	3773.13	712.99	1.35	6.51	2.02
135210.000	476.25	157.18	4482.42	1010.40	1.53	6.95	2.25
1.000	474.63	1.19	497.52	161.29	0.18	1.83	0.56
1.000	475.28	8.18	879.56	352.26	0.44	2.94	0.96
1.000	475.62	15.51	1087.59	476.90	0.59	3.46	1.16
1.000	476.68	55.02	1673.46	921.51	0.99	4.65	1.66
380.000	474.81	0.00	660.00	0.00	0.00	6.39	0.00
380.000	475.58	0.00	1240.00	0.00	0.00	10.04	0.00
380.000	475.91	0.00	1580.00	0.00	0.00	11.94	0.00
380.000	478.52	0.00	2299.71	350.00	0.00	10.66	2.48
440.000	475.58	0.00	660.00	0.00	0.00	6.30	0.00
440.000	477.38	0.00	1237.55	2.45	0.00	8.03	0.50
440.000	478.62	0.00	1468.41	111.56	0.00	7.60	1.34
440.000	480.35	2.91	2031.44	615.65	0.66	7.70	2.32
500.000	476.32	0.00	660.00	0.00	0.00	6.07	0.00
500.000	478.34	0.00	1227.07	12.93	0.00	7.45	0.70
500.000	479.46	0.00	1435.51	146.49	0.00	7.11	1.39
500.000	480.99	3.34	2022.63	624.03	0.68	7.61	2.51
550.000	478.43	0.00	660.00	0.00	0.00	5.39	0.00
550.000	479.05	0.00	1240.00	0.00	0.00	6.65	0.00
550.000	479.95	0.00	1575.34	0.66	0.00	7.17	0.67
550.000	481.20	26.25	2547.04	76.71	0.91	9.26	1.53
600.000	477.34	0.00	660.00	0.00	0.00	5.50	0.00
600.000	479.51	0.00	1240.00	0.00	0.00	6.70	0.00
600.000	480.51	0.00	1574.48	5.52	0.00	7.10	0.69
600.000	482.16	71.84	2464.52	113.64	1.22	8.34	1.51
650.000	477.78	0.00	660.00	0.00	0.00	5.59	0.00
650.000	479.98	0.00	1240.00	0.00	0.00	6.73	0.00
650.000	481.05	0.00	1573.63	6.36	0.00	7.04	0.71
650.000	482.75	81.13	2447.94	120.93	1.26	8.18	1.50
700.000	478.23	0.00	660.00	0.00	0.00	5.65	0.00
700.000	480.45	0.00	1240.00	0.00	0.00	6.77	0.00
700.000	481.60	0.00	1498.67	81.33	0.00	6.53	1.04
700.000	483.61	41.25	2089.41	519.34	0.86	6.61	1.91
750.000	478.70	0.00	660.00	0.00	0.00	5.69	0.00
750.000	480.92	0.00	1240.00	0.00	0.00	6.80	0.00
750.000	482.13	0.00	1506.98	73.02	0.00	6.64	1.01
750.000	483.91	30.65	2131.90	487.45	0.84	6.95	1.95

SHEET LOG Moore Support System, Inc. PREPARED BY Moore & Jones, Inc.

SECNO	CWSEL	QLOB	QCH	QROB	VLOB	VCH	VROB
800.000	479.29	35.29	565.86	58.85	0.72	3.71	0.72
800.000	481.73	182.26	753.98	303.76	0.88	3.34	0.88
800.000	482.86	283.94	824.57	471.49	0.95	3.18	0.96
800.000	484.58	561.54	1164.05	924.41	1.24	3.74	1.25
850.000	479.41	25.95	590.76	43.28	0.75	4.18	0.76
850.000	481.78	160.72	811.27	268.01	0.94	3.82	0.94
850.000	482.90	265.25	873.51	441.24	1.02	3.55	1.02
850.000	484.63	542.61	1211.91	895.48	1.32	4.07	1.34
900.000	479.61	24.51	597.50	38.00	0.76	4.53	0.76
900.000	481.88	171.93	801.50	266.57	0.92	4.01	0.92
900.000	482.98	293.05	833.04	453.90	0.98	3.58	0.98
900.000	484.72	609.16	1103.30	937.54	1.23	3.87	1.24
1000.000	480.15	12.60	627.86	19.54	0.77	5.31	0.77
1000.000	482.09	130.98	905.94	203.08	1.10	5.14	1.10
1000.000	483.11	236.27	977.41	366.33	1.12	4.72	1.12
1000.000	484.84	559.53	1226.16	864.31	1.42	4.73	1.42
1100.000	480.98	9.12	636.74	14.14	0.75	5.62	0.75
1100.000	482.53	99.01	987.47	153.52	1.24	6.19	1.24
1100.000	483.39	187.57	1101.60	290.83	1.31	5.94	1.31
1100.000	485.05	498.43	1379.70	771.87	1.62	5.87	1.62
158.000	485.51	13.96	635.18	10.86	0.76	5.57	0.76
158.000	486.62	107.76	1048.43	83.80	1.34	7.12	1.34
158.000	486.95	172.76	1272.88	134.35	1.60	8.10	1.60
1580.000	487.84	472.50	1808.93	368.57	2.49	9.83	2.48
2150.000	491.16	10.74	561.19	2.07	0.88	5.73	0.55
2150.000	492.57	106.55	922.10	56.35	1.53	6.79	1.21
2150.000	493.24	189.61	1069.62	122.77	1.68	6.94	1.47
2150.000	494.62	474.36	1480.98	369.66	2.04	7.74	2.17
2255.000	492.27	0.00	574.00	0.00	0.00	5.69	0.00
2255.000	493.67	0.00	1085.00	0.00	0.00	8.35	0.00
2255.000	494.16	0.00	1382.00	0.00	0.00	9.84	0.00
2255.000	494.87	0.00	2325.00	0.00	0.00	14.95	0.00
2285.000	492.27	0.00	574.00	0.00	0.00	5.94	0.00
2285.000	493.67	0.00	1085.00	0.00	0.00	8.61	0.00
2285.000	494.16	0.00	1382.00	0.00	0.00	10.15	0.00
2285.000	498.26	694.08	1176.50	454.42	1.64	5.29	1.73
2380.000	493.39	14.26	556.34	3.41	0.91	5.48	0.59
2380.000	495.53	159.98	815.61	109.41	1.26	5.12	1.15
2380.000	496.57	272.76	897.88	211.36	1.25	4.79	1.32
2380.000	498.56	670.10	1175.69	479.21	1.48	4.88	1.59
2500.000	494.46	22.37	544.41	7.22	0.92	5.00	0.64
2500.000	496.09	145.55	847.02	92.42	1.34	5.55	1.15
2500.000	496.96	246.65	949.37	185.98	1.38	5.39	1.39
2500.000	498.85	618.62	1249.36	457.01	1.60	5.50	1.74

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 VCH: 1000

SECNO	CWSEL	VLOB	VCH	QROB	VLOB	VCH	VROB
3120.000	498.92	34.85	504.47	34.67	1.20	5.17	0.84
3120.000	500.10	113.79	787.30	183.91	1.76	6.32	1.33
3120.000	500.50	157.61	928.82	295.57	2.00	6.95	1.65
3120.000	501.72	316.40	1279.83	728.77	2.42	7.91	2.32
4620.000	509.86	103.61	388.11	82.38	1.60	5.38	1.56
4620.000	511.27	265.97	600.64	218.39	2.11	6.33	2.04
4620.000	511.97	368.71	706.42	306.86	2.28	6.66	2.20
4620.000	513.50	700.05	1027.58	597.37	2.79	7.87	2.68
5810.000	519.17	168.25	331.24	74.51	1.19	5.77	1.74
5810.000	520.18	523.67	428.15	133.18	1.61	6.25	1.96
5810.000	520.00	745.98	472.24	164.18	1.80	6.46	2.05
5810.000	521.82	1490.48	573.25	261.27	2.16	6.63	2.15
6000.000	520.47	105.96	236.78	51.26	0.86	3.67	1.02
6000.000	521.41	292.06	342.64	118.30	1.29	4.35	1.38
6000.000	521.82	404.47	398.91	158.62	1.48	4.70	1.53
6000.000	522.96	779.80	557.23	293.97	1.91	5.51	1.90
6150.000	521.14	69.95	245.72	78.32	1.17	4.34	1.17
6150.000	522.12	182.09	368.06	202.85	1.65	5.17	1.66
6150.000	522.55	250.57	432.88	278.55	1.86	5.57	1.87
6150.000	523.68	479.65	620.92	530.44	2.34	6.56	2.37
7400.000	532.30	0.00	393.13	0.87	0.00	6.11	0.67
7400.000	533.33	132.37	608.18	12.45	1.39	7.15	1.29
7400.000	533.76	244.85	694.58	22.56	1.69	7.43	1.47
7400.000	534.81	646.95	919.60	64.44	2.24	8.01	1.82
7530.000	534.37	0.00	394.00	0.00	0.00	6.61	0.02
7530.000	535.54	145.26	600.34	7.40	1.63	8.01	1.26
7530.000	535.90	259.44	687.06	14.99	2.07	8.63	1.54
7530.000	536.79	671.90	908.05	51.06	3.04	9.97	2.18
7550.000	534.37	0.00	394.00	0.00	0.00	6.90	0.00
7550.000	537.33	339.74	384.96	28.25	1.30	4.03	0.93
7550.000	538.20	503.94	407.28	50.78	1.37	3.81	0.98
7550.000	539.36	950.23	563.95	116.82	1.82	4.62	1.30
7630.000	535.69	74.03	313.06	6.91	0.73	3.63	0.66
7630.000	537.59	334.57	384.00	34.43	0.93	3.09	0.73
7630.000	538.40	483.46	425.09	53.45	0.99	3.03	0.76
7630.000	539.60	908.38	610.19	112.42	1.32	3.71	0.98

10 YR NATURAL

SUMMARY PRINTOUT

SECNO	CWSEL	BSTA	STCHL	STCHR	ENDST	TOPWTD
134820.000	473.24	976.87	1000.00	1060.00	1139.44	162.57
134820.000	473.93	973.11	1000.00	1060.00	1143.58	170.47
134820.000	474.28	971.20	1000.00	1060.00	1145.68	174.48
134820.000	475.38	965.20	1000.00	1060.00	1152.28	187.08
135210.000	474.13	978.09	1000.00	1060.00	1138.10	160.00
135210.000	474.81	974.37	1000.00	1060.00	1142.19	167.81
135210.000	475.16	972.43	1000.00	1060.00	1144.33	171.90
135210.000	476.25	966.47	1000.00	1060.00	1150.88	184.41
1.000	474.63	202.65	217.00	260.00	378.73	176.08
1.000	475.28	196.14	217.00	260.00	387.09	190.94
1.000	475.62	193.42	217.00	260.00	391.45	198.03
1.000	476.68	185.07	217.00	260.00	403.49	218.42
380.000	474.81	233.70	217.00	260.00	259.14	25.49
380.000	475.58	232.51	217.00	260.00	259.43	26.92
380.000	475.91	232.00	217.00	260.00	259.53	27.53
380.000	478.52	219.89	217.00	260.00	362.10	142.21
440.000	475.58	233.61	217.00	260.00	259.21	25.60
440.000	477.38	230.80	217.00	260.00	311.70	54.61
440.000	478.62	224.44	217.00	260.00	349.66	125.22
440.000	480.35	205.35	217.00	260.00	376.50	171.15
500.000	476.32	233.37	217.00	260.00	259.26	25.89
500.000	478.34	230.25	217.00	260.00	322.65	79.27
500.000	479.46	222.66	217.00	260.00	356.79	134.13
500.000	480.99	204.66	217.00	260.00	377.07	172.42
550.000	476.93	1009.11	993.00	1038.00	1037.30	26.19
550.000	479.05	1004.76	993.00	1038.00	1037.95	33.20
550.000	479.95	997.49	993.00	1038.00	1056.57	59.09
550.000	481.20	928.96	993.00	1038.00	1087.90	158.95
600.000	477.34	1009.25	993.00	1038.00	1037.27	28.02
600.000	479.51	1005.13	993.00	1038.00	1037.94	32.81
600.000	480.51	997.07	993.00	1038.00	1057.87	60.80
600.000	482.16	926.68	993.00	1038.00	1099.24	172.56
650.000	477.78	1009.36	993.00	1038.00	1037.25	27.89
650.000	479.98	1005.36	993.00	1038.00	1037.93	32.57
650.000	481.05	996.68	993.00	1038.00	1059.04	62.35
650.000	482.75	926.25	993.00	1038.00	1101.35	175.10
700.000	478.23	1009.43	993.00	1038.00	1037.24	27.81
700.000	480.45	1005.59	993.00	1038.00	1037.92	32.33
700.000	481.69	995.53	993.00	1038.00	1133.44	137.92
700.000	483.61	933.93	993.00	1038.00	1143.09	209.16
750.000	478.70	1009.48	993.00	1038.00	1037.23	27.75
750.000	480.92	1005.80	993.00	1038.00	1037.92	32.11
750.000	482.13	996.02	993.00	1038.00	1133.14	137.13
750.000	483.91	941.53	993.00	1038.00	1142.05	200.52

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SECNO	CWSEL	BSTA	STCHL	STCHR	ENDST	TOPWID
800.000	479.29	957.03	1000.00	1030.00	1101.61	144.58
800.000	481.73	926.92	1000.00	1030.00	1159.49	238.58
800.000	482.86	914.64	1000.00	1030.00	1166.39	251.75
800.000	484.58	905.11	1000.00	1030.00	1176.88	271.78
850.000	479.41	964.09	1000.00	1030.00	1089.85	125.76
850.000	481.78	923.42	1000.00	1030.00	1156.74	233.32
850.000	482.90	917.20	1000.00	1030.00	1163.58	246.37
850.000	484.63	907.64	1000.00	1030.00	1174.10	266.46
900.000	479.61	959.86	1000.00	1030.00	1092.22	132.35
900.000	481.88	903.21	1000.00	1030.00	1180.02	276.81
900.000	482.98	893.94	1000.00	1030.00	1191.06	297.12
900.000	484.72	883.02	1000.00	1030.00	1201.98	318.97
1000.000	480.15	971.34	1000.00	1030.00	1074.42	103.08
1000.000	482.09	922.80	1000.00	1030.00	1149.66	226.86
1000.000	483.11	899.29	1000.00	1030.00	1185.71	286.42
1000.000	484.84	888.46	1000.00	1030.00	1196.54	308.07
1100.000	480.98	975.41	1000.00	1030.00	1068.12	92.71
1100.000	482.53	936.77	1000.00	1030.00	1128.00	191.23
1100.000	483.39	915.34	1000.00	1030.00	1161.23	245.89
1100.000	485.05	893.46	1000.00	1030.00	1191.54	298.08
1580.000	485.51	963.56	1000.00	1030.00	1058.34	94.78
1580.000	486.62	923.80	1000.00	1030.00	1089.27	165.47
1580.000	486.95	911.91	1000.00	1030.00	1098.51	186.60
1580.000	487.84	906.12	1000.00	1030.00	1106.14	200.02
2150.000	491.16	974.82	1000.00	1027.00	1040.49	65.67
2150.000	492.57	943.61	1000.00	1027.00	1074.43	130.83
2150.000	493.24	928.55	1000.00	1027.00	1086.21	157.67
2150.000	494.62	897.82	1000.00	1027.00	1093.18	195.35
2255.000	492.27	1006.00	1006.00	1027.00	1026.99	20.99
2255.000	493.67	1006.00	1006.00	1027.00	1027.00	21.00
2255.000	494.16	1006.00	1006.00	1027.00	1027.00	21.00
2255.000	494.87	1006.00	1006.00	1027.00	1027.00	21.00
2285.000	492.27	1006.00	1006.00	1027.00	1026.99	20.98
2285.000	493.67	1006.00	1006.00	1027.00	1027.00	21.00
2285.000	494.16	1006.00	1006.00	1027.00	1027.00	21.00
2285.000	498.26	872.54	1006.00	1027.00	1099.91	227.37
2380.000	493.39	971.88	1000.00	1027.00	1043.68	71.80
2380.000	495.53	924.23	1000.00	1027.00	1087.19	162.96
2380.000	496.57	901.19	1000.00	1027.00	1092.41	191.22
2380.000	498.56	864.26	1000.00	1027.00	1102.45	238.19
2500.000	494.46	965.80	1000.00	1027.00	1050.29	84.49
2500.000	496.09	929.81	1000.00	1027.00	1085.93	156.12
2500.000	496.96	910.34	1000.00	1027.00	1090.34	179.99
2500.000	498.85	872.77	1000.00	1027.00	1099.84	227.07

SECTION 100 - West Coast - Form 10
 SECTION 100 - West Coast - Form 10

SECNO	CWSEL	SSTA	STCHL	STCHR	ENDST	TOPWID
3120.000	498.92	974.18	1000.00	1023.00	1081.10	106.92
3120.000	500.10	965.22	1000.00	1023.00	1125.77	160.55
3120.000	500.50	962.24	1000.00	1023.00	1128.71	166.46
3120.000	501.72	952.94	1000.00	1023.00	1137.89	184.95
4620.000	509.86	961.86	1000.00	1016.00	1048.91	87.04
4620.000	511.27	951.83	1000.00	1016.00	1059.53	107.69
4620.000	511.97	946.86	1000.00	1016.00	1064.79	117.93
4620.000	513.50	936.04	1000.00	1016.00	1076.25	140.22
5810.000	519.17	849.20	1000.00	1011.00	1033.11	183.91
5810.000	520.10	789.55	1000.00	1011.00	1038.89	249.34
5810.000	520.60	782.00	1000.00	1011.00	1041.29	259.28
5810.000	521.82	767.02	1000.00	1011.00	1048.23	281.21
6000.000	520.47	895.32	1000.00	1015.00	1049.79	154.47
6000.000	521.41	885.87	1000.00	1015.00	1056.09	170.22
6000.000	521.82	881.78	1000.00	1015.00	1058.81	177.03
6000.000	522.90	870.96	1000.00	1015.00	1066.03	195.07
6150.000	521.14	952.04	1000.00	1015.00	1067.96	115.93
6150.000	522.12	945.19	1000.00	1015.00	1074.81	129.61
6150.000	522.55	942.13	1000.00	1015.00	1077.87	135.73
6150.000	523.68	934.25	1000.00	1015.00	1085.75	151.51
7400.000	532.30	1000.15	1000.00	1020.00	1024.35	24.20
7400.000	533.33	889.60	1000.00	1020.00	1031.87	142.27
7400.000	533.76	878.21	1000.00	1020.00	1034.98	156.77
7400.000	534.81	851.86	1000.00	1020.00	1042.71	190.86
7530.000	534.37	1005.01	1005.00	1018.00	1018.49	13.48
* 7530.000	535.54	905.43	1005.00	1018.00	1027.47	122.04
* 7530.000	535.90	901.48	1005.00	1018.00	1030.19	128.70
7530.000	536.79	891.71	1005.00	1018.00	1036.90	145.20
7550.000	534.37	1005.02	1005.00	1018.00	1018.00	12.98
7550.000	537.33	887.89	1005.00	1018.00	1039.52	151.63
* 7550.000	538.20	878.23	1005.00	1018.00	1046.16	167.93
7550.000	539.36	865.37	1005.00	1018.00	1054.00	189.63
7630.000	535.64	887.96	1000.00	1020.00	1032.32	144.35
7630.000	537.59	847.10	1000.00	1020.00	1046.18	199.09
7630.000	538.40	839.00	1000.00	1020.00	1052.09	213.09
7630.000	539.60	826.93	1000.00	1020.00	1060.89	233.96

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SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	U	CWSEL	CRIMS	EG	10K*5	VCH	AREA	.01K
134820.000	0.00	0.00	0.00	462.50	3660.00	473.24	0.00	473.70	22.20	5.86	865.57	776.74
134820.000	0.00	0.00	0.00	462.50	4240.00	473.93	0.00	474.42	22.04	6.13	960.47	903.23
134820.000	0.00	0.00	0.00	462.50	4580.00	474.28	0.00	474.80	22.24	6.31	1040.84	971.24
134820.000	0.00	0.00	0.00	462.50	5650.00	475.38	0.00	475.95	22.09	6.75	1239.70	1202.08
135210.000	0.00	0.00	0.00	463.60	3660.00	474.13	0.00	474.62	24.60	6.06	829.46	737.92
135210.000	0.00	0.00	0.00	463.60	4240.00	474.81	0.00	475.34	24.33	6.34	941.25	859.60
135210.000	0.00	0.00	0.00	463.60	4580.00	475.16	0.00	475.71	24.40	6.51	1021.86	927.21
135210.000	0.00	0.00	0.00	463.60	5650.00	476.25	0.00	476.86	24.09	6.95	1196.45	1151.05
1.000	1.00	0.00	0.00	463.60	660.00	474.63	0.00	474.67	5.77	1.83	563.63	274.86
1.000	1.00	0.00	0.00	463.60	1240.00	475.28	0.00	475.38	2.96	2.94	684.44	344.49
1.000	1.00	0.00	0.00	463.60	1580.00	475.62	0.00	475.76	16.88	3.46	751.12	384.58
1.000	1.00	0.00	0.00	463.60	2650.00	476.68	0.00	476.90	25.53	4.65	970.50	524.43
380.000	380.00	0.00	0.00	468.80	660.00	474.81	0.00	475.44	127.72	6.39	103.25	58.40
380.000	380.00	0.00	0.00	468.80	1240.00	475.58	0.00	477.15	273.45	10.04	123.46	74.99
380.000	380.00	0.00	0.00	468.80	1580.00	475.91	0.00	478.12	366.08	11.94	132.33	82.58
380.000	380.00	0.00	0.00	468.80	2650.00	478.52	0.00	480.07	444.39	10.66	357.04	169.51
440.000	60.00	0.00	0.00	469.50	660.00	475.58	0.00	476.19	122.51	6.30	104.79	59.63
440.000	60.00	0.00	0.00	469.50	1240.00	477.38	0.00	478.38	147.25	8.03	159.09	102.19
440.000	60.00	0.00	0.00	469.50	1580.00	478.62	0.00	479.46	125.54	7.60	276.69	141.01
440.000	60.00	0.00	0.00	469.50	2650.00	480.35	0.00	481.07	105.57	7.70	333.26	257.91
500.000	60.00	0.00	0.00	470.10	660.00	476.32	0.00	476.90	110.25	6.07	108.80	62.86
500.000	60.00	0.00	0.00	470.10	1240.00	478.34	0.00	479.19	120.76	7.45	183.11	112.84
500.000	60.00	0.00	0.00	470.10	1580.00	479.46	0.00	480.17	109.51	7.11	306.96	150.98
500.000	60.00	0.00	0.00	470.10	2650.00	480.99	0.00	481.70	102.14	7.61	540.98	262.21
550.000	50.00	0.00	0.00	470.50	660.00	475.93	0.00	477.38	82.40	5.39	122.43	72.71
550.000	50.00	0.00	0.00	470.50	1240.00	479.05	0.00	479.74	92.76	6.65	186.58	128.75
550.000	50.00	0.00	0.00	470.50	1580.00	479.95	0.00	480.74	109.28	7.17	226.52	151.15
550.000	50.00	0.00	0.00	470.50	2650.00	481.20	0.00	482.48	152.13	9.26	354.17	214.45
600.000	50.00	0.00	0.00	471.00	660.00	477.34	0.00	477.81	67.36	5.50	119.92	70.62
600.000	50.00	0.00	0.00	471.00	1240.00	479.51	0.00	480.21	93.96	6.70	185.09	127.92
600.000	50.00	0.00	0.00	471.00	1580.00	480.51	0.00	481.29	106.98	7.10	229.64	152.76
600.000	50.00	0.00	0.00	471.00	2650.00	482.16	0.00	483.16	112.04	8.34	429.79	250.35
650.000	50.00	0.00	0.00	471.50	660.00	477.78	0.00	478.26	91.51	5.59	117.96	68.99
650.000	50.00	0.00	0.00	471.50	1240.00	479.98	0.00	480.68	92.72	6.73	184.14	127.41
650.000	50.00	0.00	0.00	471.50	1580.00	481.05	0.00	481.82	104.93	7.04	232.54	154.25
650.000	50.00	0.00	0.00	471.50	2650.00	482.75	0.00	483.71	105.91	8.18	444.55	257.50
700.000	50.00	0.00	0.00	472.00	660.00	478.23	0.00	478.73	94.13	5.65	116.79	68.03
700.000	50.00	0.00	0.00	472.00	1240.00	480.45	0.00	481.16	95.47	6.77	183.22	126.91
700.000	50.00	0.00	0.00	472.00	1580.00	481.69	0.00	482.32	89.98	6.53	307.97	166.56
700.000	50.00	0.00	0.00	472.00	2650.00	483.61	0.00	484.16	64.46	6.61	635.63	330.07
750.000	50.00	0.00	0.00	472.50	660.00	478.70	0.00	479.21	96.11	5.69	115.94	67.32
750.000	50.00	0.00	0.00	472.50	1240.00	480.92	0.00	481.64	96.14	6.80	182.39	126.47
750.000	50.00	0.00	0.00	472.50	1580.00	482.13	0.00	482.78	93.18	6.64	299.68	163.68
750.000	50.00	0.00	0.00	472.50	2650.00	483.91	0.00	484.52	74.19	6.95	592.98	307.66

SECGO	XLCH	ELTRD	ELLC	ELMIN	D	CWSEL	CRIMS	EG	10KAS	VCH	AREA	.01K
800.000	50.00	0.00	0.00	473.00	660.00	479.29	0.00	479.48	27.99	3.71	283.79	124.74
800.000	50.00	0.00	0.00	473.00	1240.00	481.73	0.00	481.84	13.43	3.34	776.00	338.35
800.000	50.00	0.00	0.00	473.00	1580.00	482.86	0.00	482.95	10.08	3.18	1052.80	497.62
800.000	50.00	0.00	0.00	473.00	2650.00	484.58	0.00	484.69	10.99	3.74	1502.14	799.27
850.000	50.00	0.00	0.00	473.50	660.00	479.41	0.00	479.56	39.43	4.16	232.91	105.10
850.000	50.00	0.00	0.00	473.50	1240.00	481.78	0.00	481.94	19.11	3.82	669.59	283.68
850.000	50.00	0.00	0.00	473.50	1580.00	482.90	0.00	483.02	13.58	3.55	938.05	428.81
850.000	50.00	0.00	0.00	473.50	2650.00	484.63	0.00	484.76	13.84	4.07	1379.59	712.36
900.000	50.00	0.00	0.00	474.00	660.00	479.61	0.00	479.89	50.61	4.53	214.08	92.78
900.000	50.00	0.00	0.00	474.00	1240.00	481.80	0.00	482.04	22.79	4.01	677.64	259.77
900.000	50.00	0.00	0.00	474.00	1580.00	482.98	0.00	483.09	14.80	3.58	996.07	410.70
900.000	50.00	0.00	0.00	474.00	2650.00	484.72	0.00	484.83	13.19	3.87	1534.30	729.54
1000.000	100.00	0.00	0.00	475.00	660.00	480.15	0.00	480.56	80.71	5.31	160.02	73.46
1000.000	100.00	0.00	0.00	475.00	1240.00	482.09	0.00	482.39	44.17	5.14	480.33	186.57
1000.000	100.00	0.00	0.00	475.00	1580.00	483.11	0.00	483.33	30.09	4.72	746.10	288.04
1000.000	100.00	0.00	0.00	475.00	2650.00	484.84	0.00	485.02	22.45	4.73	1261.13	559.28
1100.000	100.00	0.00	0.00	476.00	660.00	480.98	0.00	481.46	95.54	5.62	144.11	67.52
1100.000	100.00	0.00	0.00	476.00	1240.00	482.53	0.00	483.01	73.22	6.19	363.49	144.92
1100.000	100.00	0.00	0.00	476.00	1580.00	483.39	0.00	483.78	55.37	5.94	550.91	212.53
1100.000	100.00	0.00	0.00	476.00	2650.00	485.05	0.00	485.34	39.29	5.87	1018.85	422.76
1580.000	480.00	0.00	0.00	480.50	660.00	485.51	0.00	485.98	92.73	5.57	146.90	68.54
1580.000	480.00	0.00	0.00	480.50	1240.00	486.62	0.00	487.29	108.00	7.12	290.63	119.32
1580.000	480.00	0.00	0.00	480.50	1580.00	486.95	0.00	487.78	128.15	8.10	348.75	139.58
1580.000	480.00	0.00	0.00	480.50	2650.00	487.84	0.00	488.90	153.10	9.63	522.61	214.17
2150.000	570.00	0.00	0.00	486.30	574.00	491.16	0.00	491.66	108.25	5.73	113.83	55.17
2150.000	570.00	0.00	0.00	486.30	1085.00	492.57	0.00	493.16	98.09	6.79	251.84	109.55
2150.000	570.00	0.00	0.00	486.30	1382.00	493.24	0.00	493.83	86.60	6.94	350.60	148.50
2150.000	570.00	0.00	0.00	486.30	2325.00	494.62	0.00	495.24	80.56	7.74	594.64	259.03
2255.000	105.00	0.00	0.00	487.20	574.00	492.27	0.00	492.77	103.72	5.69	100.60	56.36
2255.000	105.00	0.00	0.00	487.20	1085.00	493.67	0.00	494.75	171.84	8.35	129.99	82.77
2255.000	105.00	0.00	0.00	487.20	1382.00	494.16	0.00	495.66	220.09	9.84	140.42	93.16
2255.000	105.00	0.00	0.00	487.20	2325.00	494.87	0.00	498.34	456.50	14.95	155.52	106.82
2285.000	50.00	497.60	495.80	487.40	574.00	492.27	0.00	492.82	117.58	5.94	96.60	52.90
2285.000	50.00	497.60	495.80	487.40	1085.00	493.67	0.00	494.82	189.16	6.61	126.00	78.89
2285.000	50.00	497.60	495.80	487.40	1382.00	494.16	0.00	495.75	241.57	10.15	136.21	88.92
2285.000	50.00	497.60	495.80	487.40	2325.00	496.26	0.00	498.50	31.67	5.29	908.28	413.16
2380.000	95.00	0.00	0.00	488.40	574.00	493.39	0.00	493.84	94.40	5.48	122.95	59.08
2380.000	95.00	0.00	0.00	488.40	1085.00	495.53	0.00	495.85	45.04	5.12	381.72	161.07
2380.000	95.00	0.00	0.00	488.40	1382.00	495.57	0.00	496.81	51.82	4.79	565.35	244.98
2380.000	95.00	0.00	0.00	488.40	2325.00	496.56	0.00	498.77	23.51	4.88	996.09	479.51
2500.000	120.00	0.00	0.00	489.20	574.00	494.46	0.00	494.83	71.52	5.00	144.30	67.87
2500.000	120.00	0.00	0.00	489.20	1085.00	496.09	0.00	496.47	56.15	5.55	341.70	144.60
2500.000	120.00	0.00	0.00	489.20	1382.00	496.96	0.00	497.28	43.83	5.39	488.88	209.22
2500.000	120.00	0.00	0.00	489.20	2325.00	496.85	0.00	499.12	32.41	5.50	875.35	408.39

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K+S	VCH	AREA	.01K
3120.000	620.00	0.00	0.00	493.80	574.00	498.92	0.00	499.29	72.11	5.17	167.93	67.60
3120.000	620.00	0.00	0.00	493.80	1085.00	500.10	0.00	500.56	77.53	6.32	327.36	123.22
3120.000	620.00	0.00	0.00	493.80	1382.00	500.50	0.00	501.02	85.50	6.95	391.44	144.46
3120.000	620.00	0.00	0.00	493.80	2325.00	501.72	0.00	502.29	85.82	7.91	606.55	250.98
4620.000	1500.00	0.00	0.00	504.50	574.00	509.86	0.00	510.18	73.04	5.38	189.85	67.16
4620.000	1500.00	0.00	0.00	504.50	1085.00	511.27	0.00	511.65	70.46	6.33	327.71	129.26
4620.000	1500.00	0.00	0.00	504.50	1382.00	511.97	0.00	512.36	67.11	6.66	406.91	168.70
4620.000	1500.00	0.00	0.00	504.50	2325.00	513.50	0.00	513.99	71.11	7.87	604.14	275.71
5810.000	1190.00	0.00	0.00	513.00	574.00	519.17	0.00	519.48	83.80	5.77	241.04	62.71
5810.000	1190.00	0.00	0.00	513.00	1085.00	520.18	0.00	520.45	77.55	6.25	461.88	123.21
5810.000	1190.00	0.00	0.00	513.00	1382.00	520.60	0.00	520.86	75.93	6.46	568.53	158.60
5810.000	1190.00	0.00	0.00	513.00	2325.00	521.82	0.00	522.04	63.95	6.63	898.59	290.73
6000.000	190.00	0.00	0.00	515.00	394.00	520.47	0.00	520.60	37.67	3.67	237.62	64.19
6000.000	190.00	0.00	0.00	515.00	753.00	521.41	0.00	521.56	40.71	4.35	390.97	118.02
6000.000	190.00	0.00	0.00	515.00	962.00	521.82	0.00	521.98	42.96	4.70	461.97	146.77
6000.000	190.00	0.00	0.00	515.00	1631.00	522.90	0.00	523.10	46.76	5.51	663.38	238.53
6150.000	150.00	0.00	0.00	516.30	394.00	521.14	0.00	521.33	61.31	4.34	183.58	50.32
6150.000	150.00	0.00	0.00	516.30	753.00	522.12	0.00	522.34	63.79	5.17	303.60	94.28
6150.000	150.00	0.00	0.00	516.30	962.00	522.55	0.00	522.80	65.80	5.57	361.58	118.59
6150.000	150.00	0.00	0.00	516.30	1631.00	523.68	0.00	523.99	70.29	6.56	523.43	194.54
7400.000	1250.00	0.00	0.00	528.00	394.00	532.30	531.23	532.87	150.76	6.11	65.67	32.09
7400.000	1250.00	0.00	0.00	528.00	753.00	533.33	533.18	533.98	144.38	7.15	189.89	62.67
7400.000	1250.00	0.00	0.00	528.00	962.00	533.76	533.56	534.39	136.88	7.43	253.72	82.23
7400.000	1250.00	0.00	0.00	528.00	1631.00	534.81	534.23	535.41	121.45	8.01	438.82	148.00
7530.000	130.00	0.00	0.00	529.30	394.00	534.37	0.00	535.05	177.18	6.61	59.63	29.60
7530.000	130.00	0.00	0.00	529.30	753.00	535.54	535.54	536.35	195.85	8.01	169.94	53.81
7530.000	130.00	0.00	0.00	529.30	962.00	535.90	535.40	536.75	210.04	8.63	214.62	66.38
7530.000	150.00	0.00	0.00	529.30	1631.00	536.79	0.00	537.71	234.26	9.97	335.40	106.56
7550.000	20.00	537.20	536.30	529.50	394.00	534.37	0.00	535.11	200.74	6.90	57.06	27.81
7550.000	20.00	537.20	536.30	529.50	753.00	537.33	0.00	537.47	35.88	4.03	386.47	125.70
7550.000	20.00	537.20	536.30	529.50	962.00	538.20	0.00	538.31	27.64	3.81	525.77	182.98
7550.000	20.00	537.20	536.30	529.50	1631.00	539.36	0.00	539.50	34.12	4.62	733.21	279.20
7630.000	80.00	0.00	0.00	530.30	394.00	535.69	0.00	535.85	36.47	3.63	198.67	65.24
7630.000	80.00	0.00	0.00	530.30	753.00	537.59	0.00	537.67	16.24	3.09	531.62	186.87
7630.000	80.00	0.00	0.00	530.30	962.00	538.40	0.00	538.47	13.22	3.03	698.53	264.53
7630.000	80.00	0.00	0.00	530.30	1631.00	539.60	0.00	539.70	16.06	3.71	968.27	406.96

PLOTTER: 5000 Series Plotter, Inc.
 Model 5000 Series Plotter, Inc.

10 YR NATURAL

SUMMARY PRINTOUT TABLE 150

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
134820.000	3660.00	473.24	0.00	0.00	0.00	162.57	0.00
134820.000	4240.00	473.93	0.69	0.00	0.00	170.47	0.00
134820.000	4580.00	474.26	0.35	0.00	0.00	174.48	0.00
134820.000	5650.00	475.38	1.10	0.00	0.00	187.08	0.00
135210.000	3660.00	474.13	0.00	0.89	0.00	160.00	390.00
135210.000	4240.00	474.81	0.68	0.88	0.00	167.81	390.00
135210.000	4580.00	475.16	0.36	0.88	0.00	171.90	390.00
135210.000	5650.00	476.25	1.09	0.87	0.00	184.41	390.00
1.000	660.00	474.63	0.00	0.50	0.00	176.08	1.00
1.000	1240.00	475.28	0.66	0.48	0.00	190.94	1.00
1.000	1580.00	475.62	0.34	0.46	0.00	198.03	1.00
1.000	2650.00	476.68	1.05	0.42	0.00	218.42	1.00
380.000	660.00	474.81	0.00	0.18	0.00	25.49	380.00
380.000	1240.00	475.50	0.78	0.30	0.00	26.92	380.00
380.000	1580.00	475.91	0.32	0.28	0.00	27.53	380.00
380.000	2650.00	478.52	2.61	1.85	0.00	142.21	380.00
440.000	660.00	475.58	0.00	0.77	0.00	25.60	60.00
440.000	1240.00	477.38	1.81	1.80	0.00	54.61	60.00
440.000	1580.00	478.62	1.24	2.71	0.00	125.22	60.00
440.000	2650.00	480.35	1.72	1.82	0.00	171.15	60.00
500.000	660.00	476.32	0.00	0.75	0.00	25.89	60.00
500.000	1240.00	478.34	2.02	0.96	0.00	79.27	60.00
500.000	1580.00	479.46	1.12	0.84	0.00	134.13	60.00
500.000	2650.00	480.99	1.53	0.64	0.00	172.42	60.00
550.000	660.00	476.93	0.00	0.61	0.00	28.19	50.00
550.000	1240.00	479.05	2.12	0.71	0.00	33.20	50.00
550.000	1580.00	479.95	0.89	0.49	0.00	59.09	50.00
550.000	2650.00	481.20	1.26	0.21	0.00	158.95	50.00
600.000	660.00	477.34	0.00	0.41	0.00	28.02	50.00
600.000	1240.00	479.51	2.17	0.46	0.00	32.81	50.00
600.000	1580.00	480.51	0.99	0.56	0.00	60.80	50.00
600.000	2650.00	482.16	1.65	0.95	0.00	172.56	50.00
650.000	660.00	477.78	0.00	0.44	0.00	27.89	50.00
650.000	1240.00	479.98	2.20	0.47	0.00	32.57	50.00
650.000	1580.00	481.05	1.07	0.55	0.00	62.35	50.00
650.000	2650.00	482.75	1.70	0.59	0.00	175.10	50.00
700.000	660.00	478.23	0.00	0.46	0.00	27.81	50.00
700.000	1240.00	480.45	2.21	0.47	0.00	32.33	50.00
700.000	1580.00	481.69	1.24	0.64	0.00	137.92	50.00
700.000	2650.00	483.61	1.92	0.86	0.00	209.16	50.00
750.000	660.00	478.70	0.00	0.47	0.00	27.75	50.00
750.000	1240.00	480.92	2.22	0.47	0.00	32.11	50.00
750.000	1580.00	482.13	1.21	0.44	0.00	137.13	50.00
750.000	2650.00	483.91	1.78	0.30	0.00	200.52	50.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
800.000	660.00	479.29	0.00	0.59	0.00	144.58	50.00
800.000	1240.00	481.73	2.44	0.81	0.00	238.58	50.00
800.000	1580.00	482.86	1.13	0.74	0.00	251.75	50.00
800.000	2650.00	484.58	1.72	0.67	0.00	271.78	50.00
850.000	660.00	479.41	0.00	0.12	0.00	125.76	50.00
850.000	1240.00	481.78	2.37	0.05	0.00	233.32	50.00
850.000	1580.00	482.90	1.12	0.04	0.00	246.37	50.00
850.000	2650.00	484.63	1.72	0.04	0.00	266.46	50.00
900.000	660.00	479.61	0.00	0.19	0.00	132.35	50.00
900.000	1240.00	481.88	2.27	0.10	0.00	276.81	50.00
900.000	1580.00	482.98	1.10	0.08	0.00	297.12	50.00
900.000	2650.00	484.72	1.74	0.09	0.00	318.97	50.00
1000.000	660.00	480.15	0.00	0.54	0.00	103.08	100.00
1000.000	1240.00	482.09	1.94	0.21	0.00	226.86	100.00
1000.000	1580.00	483.11	1.02	0.13	0.00	286.42	100.00
1000.000	2650.00	484.84	1.73	0.12	0.00	308.07	100.00
1100.000	660.00	480.98	0.00	0.84	0.00	92.71	100.00
1100.000	1240.00	482.53	1.55	0.44	0.00	191.23	100.00
1100.000	1580.00	483.39	0.86	0.28	0.00	245.84	100.00
1100.000	2650.00	485.05	1.66	0.21	0.00	298.08	100.00
1580.000	660.00	485.51	0.00	4.53	0.00	94.78	480.00
1580.000	1240.00	486.62	1.11	4.09	0.00	165.47	480.00
1580.000	1580.00	486.95	0.33	3.56	0.00	186.60	480.00
1580.000	2650.00	487.84	0.89	2.79	0.00	200.02	480.00
2150.000	574.00	491.16	0.00	5.65	0.00	65.67	570.00
2150.000	1085.00	492.57	1.41	5.94	0.00	130.83	570.00
2150.000	1382.00	493.24	0.67	6.29	0.00	157.67	570.00
2150.000	2325.00	494.62	1.38	6.78	0.00	195.35	570.00
2255.000	574.00	492.27	0.00	1.11	0.00	20.99	105.00
2255.000	1085.00	493.67	1.40	1.10	0.00	21.00	105.00
2255.000	1382.00	494.16	0.49	0.92	0.00	21.00	105.00
2255.000	2325.00	494.87	0.72	0.25	0.00	21.00	105.00
2285.000	574.00	492.27	0.00	0.00	0.00	20.98	30.00
2285.000	1085.00	493.67	1.40	0.00	0.00	21.00	30.00
2285.000	1382.00	494.16	0.49	0.00	0.00	21.00	30.00
2285.000	2325.00	498.26	4.10	3.38	0.00	227.37	30.00
2380.000	574.00	493.39	0.00	1.12	0.00	71.80	95.00
2380.000	1085.00	495.53	2.14	1.66	0.00	162.96	95.00
2380.000	1382.00	496.57	1.04	2.42	0.00	191.22	95.00
2380.000	2325.00	498.56	1.99	0.31	0.00	238.19	95.00
2500.000	574.00	494.46	0.00	1.07	0.00	84.49	120.00
2500.000	1085.00	496.09	1.62	0.55	0.00	156.12	120.00
2500.000	1382.00	496.96	0.87	0.39	0.00	179.99	120.00
2500.000	2325.00	498.85	1.88	0.28	0.00	227.07	120.00

PRELIMINARY DATA FROM THE
 NATIONAL SURVEY OF THE
 UNITED STATES

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
800.000	660.00	479.29	0.00	0.59	0.00	144.58	50.00
800.000	1240.00	481.73	2.44	0.81	0.00	238.58	50.00
800.000	1580.00	482.86	1.13	0.74	0.00	251.75	50.00
800.000	2650.00	484.58	1.72	0.67	0.00	271.70	50.00
850.000	660.00	479.41	0.00	0.12	0.00	125.76	50.00
850.000	1240.00	481.78	2.37	0.05	0.00	233.32	50.00
850.000	1580.00	482.90	1.12	0.04	0.00	246.37	50.00
850.000	2650.00	484.63	1.72	0.04	0.00	266.46	50.00
900.000	660.00	479.61	0.00	0.19	0.00	132.35	50.00
900.000	1240.00	481.88	2.27	0.10	0.00	276.81	50.00
900.000	1580.00	482.98	1.10	0.08	0.00	297.12	50.00
900.000	2650.00	484.72	1.74	0.09	0.00	318.97	50.00
1000.000	660.00	480.15	0.00	0.54	0.00	103.08	100.00
1000.000	1240.00	482.09	1.94	0.21	0.00	226.86	100.00
1000.000	1580.00	483.11	1.02	0.13	0.00	286.42	100.00
1000.000	2650.00	484.84	1.73	0.12	0.00	308.07	100.00
1100.000	660.00	480.98	0.00	0.84	0.00	92.71	100.00
1100.000	1240.00	482.53	1.55	0.44	0.00	191.23	100.00
1100.000	1580.00	483.39	0.86	0.28	0.00	245.89	100.00
1100.000	2650.00	485.05	1.66	0.21	0.00	298.08	100.00
1580.000	660.00	485.51	0.00	4.53	0.00	94.78	480.00
1580.000	1240.00	486.62	1.11	4.09	0.00	165.47	480.00
1580.000	1580.00	486.95	0.33	3.56	0.00	186.60	480.00
1580.000	2650.00	487.84	0.89	2.79	0.00	200.02	480.00
2150.000	574.00	491.16	0.00	5.65	0.00	65.67	570.00
2150.000	1085.00	492.57	1.41	5.94	0.00	130.83	570.00
2150.000	1382.00	493.24	0.67	6.29	0.00	157.67	570.00
2150.000	2325.00	494.62	1.38	6.78	0.00	195.35	570.00
2255.000	574.00	492.27	0.00	1.11	0.00	20.99	105.00
2255.000	1085.00	493.67	1.40	1.10	0.00	21.00	105.00
2255.000	1382.00	494.15	0.49	0.92	0.00	21.00	105.00
2255.000	2325.00	494.87	0.72	0.25	0.00	21.00	105.00
2285.000	574.00	492.27	0.00	0.00	0.00	20.98	30.00
2285.000	1085.00	493.67	1.40	0.00	0.00	21.00	30.00
2285.000	1382.00	494.15	0.49	0.00	0.00	21.00	30.00
2285.000	2325.00	494.26	4.10	3.38	0.00	227.37	30.00
2380.000	574.00	493.39	0.00	1.12	0.00	71.80	95.00
2380.000	1085.00	495.53	2.14	1.86	0.00	162.96	95.00
2380.000	1382.00	496.57	1.04	2.42	0.00	191.22	95.00
2380.000	2325.00	498.56	1.99	0.31	0.00	238.19	95.00
2500.000	574.00	494.46	0.00	1.07	0.00	84.49	120.00
2500.000	1085.00	496.09	1.62	0.55	0.00	156.12	120.00
2500.000	1382.00	496.96	0.87	0.39	0.00	179.99	120.00
2500.000	2325.00	498.85	1.88	0.28	0.00	227.07	120.00

10 YR NATURAL

SUMMARY PRINTOUT TABLE 150

SECNO	D	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
134820.000	3660.00	473.24	0.00	0.00	0.00	162.57	0.00
134820.000	4240.00	473.93	0.69	0.00	0.00	170.47	0.00
134820.000	4580.00	474.28	0.35	0.00	0.00	174.48	0.00
134820.000	5650.00	475.38	1.10	0.00	0.00	187.08	0.00
135210.000	3660.00	474.13	0.00	0.89	0.00	160.00	390.00
135210.000	4240.00	474.81	0.68	0.88	0.00	167.81	390.00
135210.000	4580.00	475.16	0.36	0.88	0.00	171.90	390.00
135210.000	5650.00	476.25	1.09	0.87	0.00	184.41	390.00
1.000	660.00	474.63	0.00	0.50	0.00	176.08	1.00
1.000	1240.00	475.28	0.66	0.48	0.00	190.44	1.00
1.000	1580.00	475.62	0.34	0.46	0.00	198.03	1.00
1.000	2650.00	476.68	1.05	0.42	0.00	218.42	1.00
380.000	660.00	474.81	0.00	0.18	0.00	25.49	380.00
380.000	1240.00	475.58	0.78	0.30	0.00	26.92	380.00
380.000	1580.00	475.91	0.32	0.28	0.00	27.53	380.00
380.000	2650.00	478.52	2.61	1.85	0.00	142.21	380.00
440.000	660.00	475.58	0.00	0.77	0.00	25.60	60.00
440.000	1240.00	477.38	1.81	1.80	0.00	54.61	60.00
440.000	1580.00	478.62	1.24	2.71	0.00	125.22	60.00
440.000	2650.00	480.35	1.72	1.02	0.00	171.15	60.00
500.000	660.00	476.32	0.00	0.75	0.00	25.89	60.00
500.000	1240.00	478.34	2.02	0.96	0.00	79.27	60.00
500.000	1580.00	479.46	1.12	0.84	0.00	134.13	60.00
500.000	2650.00	480.99	1.53	0.64	0.00	172.42	60.00
550.000	660.00	476.93	0.00	0.61	0.00	28.19	50.00
550.000	1240.00	479.05	2.12	0.71	0.00	33.20	50.00
550.000	1580.00	479.95	0.89	0.49	0.00	59.09	50.00
550.000	2650.00	481.20	1.26	0.21	0.00	158.95	50.00
600.000	660.00	477.34	0.00	0.41	0.00	28.02	50.00
600.000	1240.00	479.51	2.17	0.46	0.00	32.81	50.00
600.000	1580.00	480.51	0.99	0.56	0.00	60.80	50.00
600.000	2650.00	482.16	1.65	0.95	0.00	172.56	50.00
650.000	660.00	477.78	0.00	0.44	0.00	27.89	50.00
650.000	1240.00	479.98	2.20	0.47	0.00	32.57	50.00
650.000	1580.00	481.05	1.07	0.55	0.00	62.35	50.00
650.000	2650.00	482.75	1.70	0.59	0.00	175.10	50.00
700.000	660.00	478.23	0.00	0.46	0.00	27.81	50.00
700.000	1240.00	480.55	2.21	0.47	0.00	32.33	50.00
700.000	1580.00	481.69	1.24	0.64	0.00	137.92	50.00
700.000	2650.00	483.61	1.92	0.86	0.00	209.16	50.00
750.000	660.00	478.70	0.00	0.47	0.00	27.75	50.00
750.000	1240.00	480.92	2.22	0.47	0.00	32.11	50.00
750.000	1580.00	482.13	1.21	0.44	0.00	137.13	50.00
750.000	2650.00	483.91	1.78	0.30	0.00	200.52	50.00

SECNO	W	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
3120.000	574.00	498.92	0.00	4.45	0.00	106.92	620.00
3120.000	1085.00	500.10	1.18	4.01	0.00	160.55	620.00
3120.000	1382.00	500.50	0.41	3.54	0.00	166.46	620.00
3120.000	2325.00	501.72	1.22	2.87	0.00	184.95	620.00
4620.000	574.00	509.86	0.00	10.94	0.00	87.04	1500.00
4620.000	1085.00	511.27	1.41	11.17	0.00	107.69	1500.00
4620.000	1382.00	511.97	0.70	11.46	0.00	117.93	1500.00
4620.000	2325.00	513.50	1.54	11.78	0.00	140.22	1500.00
5810.000	574.00	519.17	0.00	9.30	0.00	183.91	1190.00
5810.000	1085.00	520.18	1.02	8.91	0.00	249.34	1190.00
5810.000	1382.00	520.60	0.42	8.63	0.00	259.28	1190.00
5810.000	2325.00	521.82	1.22	8.31	0.00	281.21	1190.00
6000.000	394.00	520.47	0.00	1.30	0.00	154.47	190.00
6000.000	753.00	521.41	0.94	1.23	0.00	170.22	190.00
6000.000	962.00	521.82	0.41	1.22	0.00	177.03	190.00
6000.000	1631.00	522.90	1.08	1.09	0.00	195.07	190.00
6150.000	394.00	521.14	0.00	0.67	0.00	115.93	150.00
6150.000	753.00	522.12	0.98	0.70	0.00	129.61	150.00
6150.000	962.00	522.55	0.44	0.73	0.00	135.73	150.00
6150.000	1631.00	523.68	1.13	0.77	0.00	151.51	150.00
7400.000	394.00	532.30	0.00	11.16	0.00	24.20	1250.00
7400.000	753.00	533.33	1.03	11.21	0.00	142.27	1250.00
7400.000	962.00	533.76	0.43	11.20	0.00	156.77	1250.00
7400.000	1631.00	534.81	1.06	11.13	0.00	190.86	1250.00
7530.000	394.00	534.37	0.00	2.07	0.00	13.48	130.00
* 7530.000	753.00	535.54	1.18	2.22	0.00	122.04	130.00
* 7530.000	962.00	535.90	0.36	2.14	0.00	128.70	130.00
7530.000	1631.00	536.79	0.89	1.97	0.00	145.20	130.00
7550.000	394.00	534.37	0.00	0.00	0.00	12.98	20.00
7550.000	753.00	537.33	2.96	1.78	0.00	151.63	20.00
* 7550.000	962.00	538.20	0.87	2.30	0.00	167.93	20.00
7550.000	1631.00	539.36	1.16	2.57	0.00	189.63	20.00
7630.000	394.00	535.69	0.00	1.32	0.00	144.35	80.00
7630.000	753.00	537.59	1.90	0.26	0.00	199.09	80.00
7630.000	962.00	538.40	0.81	0.20	0.00	213.09	80.00
7630.000	1631.00	539.60	1.21	0.25	0.00	233.96	80.00

SUMMARY OF ERRORS

- CAUTION SECNO= 380.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 380.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 380.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 2285.000 PROFILE= 4 HYDRAULIC JUMP U.S.
- CAUTION SECNO= 7530.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 7530.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 7530.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 7530.000 PROFILE= 3 MINIMUM SPECIFIC ENERGY

TIA

HEC2 RELEASE DATED NOV 76 UPDATED AUG 77
ERROR CORR - 01,02
MODIFICATION - 50,51,52,53

C ORANGE CO FIS LITTLE CR.
T1 ORANGE COUNTY FIA STUDY
T2 LITTLE CREEK
T3 100YR FLOW PROFILE AUG 78 LWF

J1 ICHECK INW NINW IDIR STRI PLTRIC HVINS G WSEL FN
0. 4. 0. 0. 0.000000 0.00 0.0 0. 474.300 0.000

J2 NPROF TPLOT PRFVS XSECV XSECH FN ALLOC TGA CRRIR FTRACE
1.000 0.000 -1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 15.000

J3 VARIABLE CODES FOR SUMMARY PRINTOUT
38.000 1.000 3.000 41.000 42.000 5.000 43.000 0.000 32.000 1.000

53.000 21.000 22.000 54.000 4.000 0.000 200.000 0.000 0.000 0.000

NC 0.100 0.100 0.050 0.100 0.300 0.000 0.000 0.000 0.000 0.000 0.000
GT 5.000 3660.000 4240.000 4580.000 5650.000 4580.000 0.000 0.000 0.000 0.000 0.000

X1 134820.000 14.000 1000.000 1060.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
GR 510.000 730.000 500.000 830.000 490.000 890.000 480.000 940.000 465.000 1000.000
GR 465.500 1005.000 462.500 1020.000 464.500 1050.000 468.000 1060.000 470.000 1120.000
GR 480.000 1180.000 490.000 1270.000 500.000 1330.000 510.000 1390.000 0.000 0.000

X1 135210.000 0.000 0.000 0.000 390.000 390.000 390.000 0.000 1.100 0.000
NC 0.120 0.120 0.060 0.000 0.000 0.000 0.000 0.000 0.000 0.000
GT 5.000 660.000 1240.000 1550.000 2650.000 1580.000 0.000 0.000 0.000 0.000
ET 0.000 0.000 0.000 0.000 0.000 7.100 213.000 315.000 0.000 0.000

X1 1.000 17.000 217.000 200.000 1.000 1.000 1.000 0.000 -5.200 0.000
GR 490.000 0.000 490.000 38.000 488.200 100.000 487.300 142.000 480.000 200.000
GR 478.900 217.000 477.200 230.000 471.400 239.000 469.500 247.000 468.800 251.000
GR 471.000 258.000 477.400 260.000 476.300 300.000 472.200 350.000 481.500 400.000
GR 484.000 423.000 487.400 500.000 0.000 0.000 0.000 0.000 0.000 0.000
ET 0.000 0.000 0.000 0.000 0.000 50.200 0.000 0.000 0.000 0.000

**** 01-1

X1 380.000 0.000 0.000 0.000 380.000 380.000 380.000 0.000 5.200 0.000
ET 0.000 0.000 0.000 0.000 0.000 7.100 217.000 277.000 0.000 0.000

X1 440.000 0.000 0.000 0.000 60.000 60.000 60.000 0.000 0.700 0.000
ET 0.000 0.000 0.000 0.000 0.000 7.100 217.000 277.000 0.000 0.000

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X1	500.000	0.000	0.000	0.000	60.000	60.000	60.000	0.000	0.600	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	993.000	1053.000	0.000	0.000
X1	550.000	10.000	993.000	1038.000	50.000	50.000	50.000	0.000	0.000	0.000
GR	490.000	885.000	481.000	930.000	480.500	993.000	478.900	1006.000	473.200	1015.000
GR	470.500	1028.000	472.700	1036.000	479.200	1038.000	482.500	1120.000	490.000	1200.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	993.000	1053.000	0.000	0.000
X1	600.000	0.000	0.000	0.000	50.000	50.000	50.000	0.000	0.500	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	993.000	1053.000	0.000	0.000
X1	650.000	0.000	0.000	0.000	50.000	50.000	50.000	0.000	0.500	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	993.000	1058.000	0.000	0.000
X1	700.000	11.000	993.000	1038.000	50.000	50.000	50.000	0.000	0.000	0.000
GR	500.000	830.000	484.000	920.000	482.000	993.000	480.400	1006.000	474.700	1015.000
GR	472.000	1028.000	474.200	1036.000	480.700	1038.000	481.000	1130.000	485.000	1150.000
GR	500.000	1400.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	993.000	1058.000	0.000	0.000
X1	750.000	0.000	0.000	0.000	50.000	50.000	50.000	0.000	0.500	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	980.000	1060.000	0.000	0.000
X1	800.000	8.000	1000.000	1030.000	50.000	50.000	50.000	0.000	0.000	0.000
GR	490.000	875.000	481.000	925.000	477.000	1000.000	473.500	1010.000	473.000	1025.000
GR	477.000	1050.000	481.000	1155.000	490.000	1210.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	980.000	1060.000	0.000	0.000
X1	850.000	0.000	0.000	0.000	50.000	50.000	50.000	0.000	0.500	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	980.000	1100.000	0.000	0.000
X1	900.000	10.000	1000.000	1030.000	50.000	50.000	50.000	0.000	0.000	0.000
GR	500.000	800.000	490.000	850.000	482.000	900.000	478.000	1000.000	474.500	1010.000
GR	474.000	1025.000	478.000	1030.000	482.000	1185.000	490.000	1235.000	500.000	1315.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	980.000	1100.000	0.000	0.000
X1	1000.000	0.000	0.000	0.000	100.000	100.000	100.000	0.000	1.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	980.000	1100.000	0.000	0.000
X1	1100.000	0.000	0.000	0.000	100.000	100.000	100.000	0.000	1.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	945.000	1065.000	0.000	0.000
X1	1580.000	8.000	1000.000	1030.000	480.000	480.000	480.000	0.000	0.000	0.000
GR	500.000	850.000	487.000	910.000	484.500	1000.000	481.000	1010.000	480.500	1025.000
GR	484.500	1030.000	487.000	1100.000	500.000	1195.000	0.000	0.000	0.000	0.000
GR	5.000	574.000	1085.000	1382.000	2325.000	1382.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	987.000	1037.000	0.000	0.000
X1	2150.000	14.000	1000.000	1027.000	570.000	570.000	570.000	0.000	-2.100	0.000
GR	512.000	573.000	508.000	673.000	503.400	783.000	497.300	885.000	492.800	1085.000
GR	492.400	1000.000	488.700	1011.000	488.400	1018.000	488.400	1023.000	492.700	1027.000
GR	495.100	1085.000	508.600	1155.000	510.600	1189.000	503.500	1232.000	0.000	0.000
NC	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000

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X1	2255.000	16.000	1006.000	1027.000	105.000	105.000	105.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	496.800	496.700	0.000
GR	512.000	573.000	508.000	673.000	503.400	785.000	497.300	885.000	492.800	1985.000
GR	492.200	1006.000	488.000	1006.100	487.200	1011.000	487.200	1016.000	487.500	1021.000
GR	487.700	1026.900	492.700	1027.000	495.100	1085.000	508.600	1153.000	510.600	1185.000
GR	515.600	1232.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SB	0.000	1.600	2.800	0.000	19.600	0.100	175.000	0.090	487.400	487.200

OL-2 ST. MARY'S ROAD, SR 1002

X1	2285.000	0.000	0.000	0.000	30.000	30.000	30.000	0.000	0.200	0.000
X2	0.000	0.000	1.000	495.900	497.600	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	497.800	497.600	0.000
BT	12.000	573.000	512.000	0.000	673.000	508.000	0.000	785.000	503.400	0.000
BT	873.000	500.600	0.000	973.000	498.000	0.000	1006.000	497.800	0.000	1027.000
BT	497.800	0.000	1073.000	497.600	0.000	1103.000	498.700	0.000	1153.000	508.600
BT	0.000	1185.000	510.600	0.000	1232.000	515.600	0.000	0.000	0.000	0.000

OL-3 VALLEY

X1	2380.000	14.000	1000.000	1027.000	95.000	95.000	95.000	0.000	0.000	0.000
GR	512.000	573.000	508.000	673.000	503.400	785.000	497.300	885.000	492.800	1985.000
GR	492.400	1000.000	488.700	1011.000	488.400	1018.000	488.400	1023.000	492.700	1027.000
GR	495.100	1085.000	508.600	1153.000	510.600	1185.000	515.600	1232.000	0.000	0.000
NC	0.000	0.000	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000

X1	2500.000	0.000	0.000	0.000	120.000	120.000	120.000	0.000	0.800	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	987.000	1057.000	0.000	0.000

X1	3120.000	10.000	1000.000	1023.000	620.000	620.000	620.000	0.000	0.000	0.000
GR	520.000	750.000	510.000	890.000	497.500	985.000	497.500	1000.000	493.800	1005.000
GR	493.800	1017.000	497.500	1023.000	500.000	1125.000	510.000	1200.000	520.000	1270.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	987.000	1037.000	0.000	0.000

X1	4620.000	9.000	1000.000	1016.000	1500.000	1500.000	1500.000	0.000	0.000	0.000
GR	530.000	760.000	520.000	890.000	508.000	975.000	507.500	1000.000	504.500	1005.000
GR	504.500	1012.000	507.500	1016.000	508.000	1035.000	530.000	1200.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	894.000	1030.000	0.000	0.000

OL-4 VALLEY

X1	5810.000	13.000	1000.000	1011.000	1190.000	1190.000	1190.000	0.000	0.000	0.000
GR	528.300	591.000	530.900	691.000	521.100	773.000	520.100	741.000	518.500	891.000
GR	517.600	991.000	517.400	1000.000	514.000	1001.000	513.000	1004.000	513.800	1008.000
GR	515.300	1011.000	529.300	1091.000	536.800	1141.000	0.000	0.000	0.000	0.000
ET	5.000	394.000	753.000	962.000	1631.000	962.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	932.000	1033.000	0.000	0.000

X1	6000.000	8.000	1000.000	1015.000	190.000	190.000	190.000	0.000	0.000	0.000
GR	540.000	700.000	520.000	900.000	518.500	1000.000	515.000	1005.000	515.000	1010.000
GR	518.500	1015.000	519.000	1040.000	540.000	1180.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	974.000	1045.000	0.000	0.000

X1	6150.000	10.000	1000.000	1015.000	150.000	150.000	150.000	0.000	0.000	0.000
GR	540.000	770.000	530.000	890.000	520.000	960.000	519.500	1000.000	516.300	1005.000

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ET	0.000	0.000	0.000	0.000	0.000	7.100	1973.000	1023.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	1973.000	1035.000	0.000	0.000
X1	7400.000	14.000	1000.000	1020.000	1250.000	1250.000	1250.000	0.000	-2.300	0.000
GR	557.300	517.000	551.000	617.000	546.400	717.000	540.600	817.000	537.000	853.000
GR	534.600	917.000	534.700	1000.000	530.500	1006.000	530.300	1012.000	530.700	1017.000
GR	534.000	1020.000	547.300	1117.000	552.100	1217.000	555.100	1276.000	0.000	0.000
NC	0.000	0.000	0.000	0.300	0.500	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	8.400	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	1980.000	1030.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	1980.000	1030.000	0.000	0.000

X1	7530.000	13.000	1005.000	1018.000	130.000	130.000	130.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	536.900	536.500
ET	0.000	0.000	0.000	0.000	0.000	7.100	1933.000	1033.000	0.000	0.000
GR	555.000	600.000	550.700	684.000	546.500	784.000	534.500	917.000	534.700	1005.000
GR	531.200	1005.100	529.400	1010.000	529.300	1015.000	529.600	1017.900	534.300	1018.000
GR	547.300	1117.000	552.100	1217.000	555.100	1276.000	0.000	0.000	0.000	0.000
SB	0.000	1.600	2.800	0.000	10.400	0.100	85.000	0.250	529.300	529.500

OL-5 FARM ROAD

X1	7550.000	0.000	0.000	0.000	20.000	20.000	20.000	0.000	0.200	0.000
X2	0.000	0.000	1.000	536.300	537.200	0.000	0.000	0.000	0.000	0.000
BT	13.000	600.000	555.000	0.000	684.000	550.700	0.000	784.000	546.500	0.000
B1	884.000	541.100	0.000	934.000	538.600	0.000	984.000	537.700	0.000	1005.000
B1	537.600	0.000	1018.000	537.200	0.000	1084.000	539.300	0.000	1095.000	544.400
BT	0.000	1117.000	547.300	0.000	1217.000	552.100	0.000	1276.000	555.100	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	1915.000	1035.000	0.000	0.000

OL-6 VALLEY

X1	7650.000	14.000	1000.000	1020.000	80.000	80.000	80.000	0.000	0.000	0.000
GR	557.300	517.000	551.000	617.000	546.400	717.000	540.600	817.000	537.000	853.000
GR	534.600	917.000	534.700	1000.000	530.500	1006.000	530.300	1012.000	530.700	1017.000
GR	534.000	1020.000	547.300	1117.000	552.100	1217.000	555.100	1276.000	0.000	0.000
EJ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

PRINTED IN U.S.A.
PRINTED IN U.S.A.

 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77
 ERROR CORR - 01,02
 MODIFICATION - 50,51,52,53

T1 ORANGE COUNTY FIA STUDY
 T2 LITTLE CREEK
 T3 100YR FLWY PROFILE AUG 78 CWF

J1	ICHECK	INO	NINV	IDIR	STRT	MEIRIC	HVINS	G	WSEL	FG
	-10.	6.	0.	0.	0.000000	0.00	0.0	0.	474.300	0.000

J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLUC	IBW	CHNIM	ITRACE
	15.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	15.000

*PROF 2
 CCHV= 0.100 CENV= 0.300
 *SECNO 134820.000

SECNO	DEPTH	WSEL	CRIWS	WSELK	EG	HV	HL	VLOSS	BANK ELEV
TIME	VLOB	VCH	VRUB	XNL	XNCH	XNR	WTR	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPKID	ENDST
134820.00	11.80	474.30	0.00	474.50	474.81	0.51	0.00	0.00	469.00
4580.	101.	3740.	730.	77.	594.	373.	0.	0.	468.00
0.00	1.32	6.29	1.98	0.100	0.050	0.100	0.000	462.50	971.09
0.002206	0.	0.	0.	0	0	0	0.00	174.71	1145.80

FLOW DISTRIBUTION FOR SECNO= 134820.00 CWSSEL= 474.30

STA=	971.	1000.	1060.	1120.	1146.
PER U=	2.2	81.7	14.7	1.4	
AREA=	76.6	594.2	316.0	55.5	
VEL=	1.3	6.3	2.1	1.2	

SECNO	DEPTH	WSEL	CRIWS	WSELK	EG	HV	HL	VLOSS	BANK ELEV
TIME	VLOB	VCH	VRUB	XNL	XNCH	XNR	WTR	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPKID	ENDST
135210.00	11.58	475.18	0.00	0.00	475.73	0.55	0.90	0.01	470.10
4580.	94.	3771.	714.	70.	580.	354.	9.	2.	469.10
0.02	1.35	6.50	2.02	0.100	0.050	0.100	0.050	463.60	972.36
0.002427	390.	390.	390.	1	0	0	0.00	172.05	1144.41

FLOW DISTRIBUTION FOR SECNO= 135210.00 CWSSEL= 475.18

STA=	972.	1000.	1060.	1120.	1144.
PER U=	2.1	82.3	14.3	1.3	
AREA=	70.0	560.3	304.1	49.6	
VEL=	1.3	6.5	2.2	1.2	

*SECNO 1.000

3470 ENCROACHMENT STATIONS=	213.0	313.0	TYPE=	1	TARGET=	100.000
1.00	11.95	475.55	0.00	475.64	475.76	0.21 0.00 0.03 473.70

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 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77
 ERROR CORR - 01,02
 MODIFICATION - 50,51,52,53

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

100YR FLWY PROFILE AUG

SUMMARY PRINTOUT

SECNO	CWSEL	EG	ELLC	ELMIN	10K+S	Q
134820.000	474.30	474.81	0.00	462.50	22.06	4580.00
134820.000	474.30	474.81	0.00	462.50	22.06	4580.00
135210.000	475.18	475.73	0.00	463.60	24.27	4580.00
135210.000	475.18	475.73	0.00	463.60	24.27	4580.00
1.000	475.64	475.77	0.00	463.60	16.76	1580.00
1.000	475.55	475.76	0.00	463.60	23.81	1580.00
380.000	475.91	478.12	0.00	468.80	365.77	1580.00
380.000	476.64	478.30	0.00	468.80	244.80	1580.00
440.000	478.62	479.46	0.00	469.50	125.58	1580.00
440.000	478.40	479.51	0.00	469.50	155.97	1580.00
500.000	479.46	480.17	0.00	470.10	109.52	1580.00
500.000	479.47	480.38	0.00	470.10	128.75	1580.00
550.000	479.95	480.74	0.00	470.50	109.28	1580.00
550.000	480.25	480.95	0.00	470.50	96.37	1580.00
600.000	480.51	481.29	0.00	471.00	106.98	1580.00
600.000	480.73	481.44	0.00	471.00	97.32	1580.00
650.000	481.05	481.82	0.00	471.50	104.93	1580.00
650.000	481.21	481.93	0.00	471.50	97.88	1580.00
700.000	481.69	482.32	0.00	472.00	89.98	1580.00
700.000	481.71	482.41	0.00	472.00	96.50	1580.00
750.000	482.13	482.76	0.00	472.50	93.18	1580.00
750.000	482.20	482.90	0.00	472.50	96.75	1580.00
800.000	482.86	482.95	0.00	473.00	10.08	1580.00
800.000	482.89	483.13	0.00	473.00	20.12	1580.00
850.000	482.90	483.02	0.00	473.50	13.58	1580.00
850.000	482.98	483.25	0.00	473.50	24.18	1580.00

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SECNO	CWSEL	EG	ELLC	ELMIN	10K*8	0
900.000	482.98	483.04	0.00	474.00	14.80	1580.00
900.000	483.18	483.37	0.00	474.00	20.33	1580.00
1000.000	483.11	483.33	0.00	475.00	30.09	1580.00
1000.000	483.37	483.65	0.00	475.00	32.07	1580.00
1100.000	483.39	483.78	0.00	476.00	55.37	1580.00
1100.000	483.69	484.08	0.00	476.00	49.88	1580.00
1580.000	486.95	487.78	0.00	480.50	128.13	1580.00
1580.000	486.98	487.79	0.00	480.50	123.73	1580.00
2150.000	493.24	493.83	0.00	486.30	86.60	1382.00
2150.000	493.44	494.29	0.00	486.30	103.84	1382.00
2255.000	494.16	495.66	0.00	487.20	220.09	1382.00
2255.000	494.66	495.96	0.00	487.20	191.63	1382.00
2285.000	494.16	495.75	495.80	487.40	241.57	1382.00
2285.000	494.66	496.03	0.00	487.40	207.30	1382.00
2380.000	496.57	496.81	0.00	488.40	31.82	1382.00
2380.000	496.70	497.11	0.00	488.40	43.71	1382.00
2500.000	496.96	497.28	0.00	489.20	43.63	1382.00
2500.000	497.21	497.74	0.00	489.20	56.72	1382.00
3120.000	500.50	501.02	0.00	493.80	85.50	1382.00
3120.000	501.17	501.74	0.00	493.80	73.71	1382.00
4620.000	511.97	512.36	0.00	504.50	67.11	1382.00
4620.000	512.63	513.28	0.00	504.50	80.01	1382.00
5810.000	520.60	520.86	0.00	513.00	75.95	1382.00
5810.000	521.24	521.48	0.00	513.00	59.45	1382.00
6000.000	521.82	521.98	0.00	515.00	42.96	962.00
6000.000	522.27	522.48	0.00	515.00	44.23	962.00
6150.000	522.55	522.60	0.00	516.30	65.80	962.00
6150.000	523.01	523.39	0.00	516.30	77.02	962.00
7400.000	533.76	534.39	0.00	528.00	136.88	962.00
7400.000	534.44	535.17	0.00	528.00	115.57	962.00
* 7530.000	535.90	536.75	0.00	529.30	210.04	962.00
7530.000	536.25	536.99	0.00	529.30	171.32	962.00
* 7550.000	538.20	538.31	538.30	529.50	27.64	962.00
7550.000	538.34	538.44	538.30	529.50	24.72	962.00
7630.000	538.40	538.47	0.00	530.30	13.22	962.00
7630.000	538.50	538.61	0.00	530.30	17.36	962.00

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100YR FLWY PROFILE AUG

SUMMARY PRINTOUT

SECNO	CWSEL	SSIA	STCRL	STCHR	EAUST	TUPWID
134820.000	474.30	971.09	1000.00	1060.00	1145.80	174.71
134820.000	474.30	971.09	1000.00	1060.00	1145.80	174.71
135210.000	475.18	972.36	1000.00	1060.00	1144.41	172.05
135210.000	475.18	972.36	1000.00	1060.00	1144.41	172.05
1.000	475.64	193.33	217.00	260.00	391.60	198.27
1.000	475.55	213.00	217.00	260.00	313.00	100.00
380.000	475.91	232.00	217.00	260.00	259.53	27.54
380.000	476.64	230.86	217.00	260.00	259.76	28.90
440.000	478.62	224.45	217.00	260.00	349.64	125.20
440.000	478.40	226.16	217.00	260.00	277.00	50.84
500.000	479.46	222.66	217.00	260.00	356.78	134.12
500.000	479.47	222.59	217.00	260.00	277.00	54.41
550.000	479.95	997.49	993.00	1038.00	1056.57	59.08
550.000	480.25	995.05	993.00	1038.00	1053.00	57.95
600.000	480.51	997.67	993.00	1038.00	1057.87	60.80
600.000	480.73	995.24	993.00	1038.00	1053.00	57.76
650.000	481.05	996.66	993.00	1038.00	1059.04	62.35
650.000	481.21	995.35	993.00	1038.00	1053.00	57.65
700.000	481.69	995.53	993.00	1038.00	1133.44	137.92
700.000	481.71	995.38	993.00	1038.00	1058.00	62.61
750.000	482.13	996.62	993.00	1038.00	1132.14	137.13
750.000	482.20	995.43	993.00	1038.00	1058.00	62.57
800.000	482.86	994.84	1000.00	1030.00	1166.37	231.75
800.000	482.89	996.66	1000.00	1030.00	1060.00	80.66
850.000	482.90	997.20	1000.00	1030.00	1163.56	246.37
850.000	482.92	998.00	1000.00	1030.00	1060.00	80.66
900.000	482.98	993.94	1000.00	1030.00	1191.06	297.12
900.000	483.16	990.00	1000.00	1030.00	1100.00	120.00
1000.000	483.11	995.29	1000.00	1030.00	1185.71	266.42
1000.000	483.37	980.00	1000.00	1030.00	1100.00	120.00
1100.000	483.39	995.34	1000.00	1030.00	1161.23	245.89
1100.000	483.64	990.00	1000.00	1030.00	1100.00	120.00
1580.000	486.95	991.91	1000.00	1030.00	1098.51	186.60
1580.000	486.98	995.00	1000.00	1030.00	1065.00	120.00
2150.000	493.24	928.55	1000.00	1027.00	1086.21	157.67
2150.000	493.44	987.00	1000.00	1027.00	1037.00	50.00

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SECNO	CWSEL	SSTA	STCHL	STCHR	ENDST	TOPWID
2255.000	494.16	1006.00	1006.00	1027.00	1027.00	21.00
2255.000	494.66	1006.00	1006.00	1027.00	1027.00	21.00
2285.000	494.16	1006.00	1006.00	1027.00	1027.00	21.00
2285.000	494.66	1006.00	1006.00	1027.00	1027.00	21.00
2380.000	496.57	901.19	1000.00	1027.00	1092.41	191.22
2380.000	496.70	974.99	1000.00	1027.00	1044.29	69.36
2500.000	496.96	910.34	1000.00	1027.00	1090.34	179.99
2500.000	497.21	980.61	1000.00	1027.00	1039.05	58.45
3120.000	500.50	962.24	1000.00	1023.00	1128.71	166.46
3120.000	501.17	987.00	1000.00	1023.00	1057.00	70.00
4620.000	511.97	946.86	1000.00	1016.00	1064.79	117.93
4620.000	512.63	987.00	1000.00	1016.00	1037.00	50.00
5810.000	520.60	782.00	1000.00	1011.00	1041.29	259.28
5810.000	521.24	894.00	1000.00	1011.00	1030.00	136.00
6000.000	521.82	881.78	1000.00	1015.00	1058.81	177.03
6000.000	522.27	932.00	1000.00	1015.00	1033.00	101.00
6150.000	522.55	942.13	1000.00	1015.00	1077.87	135.73
6150.000	523.01	974.00	1000.00	1015.00	1045.00	71.00
7400.000	533.76	878.21	1000.00	1020.00	1034.92	156.77
7400.000	534.44	973.00	1000.00	1020.00	1035.00	62.00
* 7530.000	535.90	901.48	1005.00	1018.00	1030.19	128.70
7530.000	536.25	933.00	1005.00	1018.00	1032.82	99.62
* 7550.000	538.20	878.23	1005.00	1018.00	1046.16	167.93
7550.000	538.34	876.66	1005.00	1018.00	1047.24	170.57
7630.000	538.40	839.00	1000.00	1020.00	1052.09	213.09
7630.000	538.50	915.00	1000.00	1020.00	1035.00	120.00

SUMMARY OF ERRORS

CAUTION SECNO= 7530.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 7530.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 7550.000 PROFILE= 1 HYDRAULIC JUMP D.S.

NOTE: HAS BEEN RETRAN WITH
 CHANGES AS SHOWN IN RED

FLOODWAY DATA, 100YR FLWY PROFILE AUG
 PROFILE NO. 2

STATION	FLOODWAY			WATER SURFACE ELEVATION		
	WIDTH (FT)	SECTION AREA	MEAN VELOCITY	WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
134820.000	175.	1044.	4.4	474.3	474.3	0.0
135210.000	172.	1004.	4.6	475.2	475.2	0.0
1.000	100.150	529.74	3.0 2.3	475.6	475.6	0.0
380.000	29.	153.75	10.3 (11)	476.6 (477)	475.9	0.7
440.000	51.	195.19	8.1 8.0	478.5 (478)	478.6	-0.1
500.000	54.56	219.20	7.2 7.1	479.5 (479)	479.5	0.0
550.000	58.	243.34	6.5	480.2	479.9	0.3
600.000	58.	242.20	6.5	480.7	480.5	0.2
650.000	58.	241.	6.6 6.5	481.3	481.1	0.2
700.000	63.	250.	6.3	481.7	481.7	0.0
750.000	63.	249.30	6.3	482.2	482.1	0.1
800.000	80.	530.	3.0	482.9	482.9	0.0
850.000	80.	497.	3.2	483.0	482.9	0.1
900.000	120.	634.65	2.5	483.2	483.0	0.2
1000.000	120.	537.	2.9	483.4	483.1	0.3
1100.000	120.	455.	3.5	483.7	483.4	0.3
1580.000	120.	317.	5.0	487.0	487.0	0.0
2150.000	50.	224.	6.2	493.4	493.2	0.2
2255.000	21.	151.	9.2	494.7	494.2	0.5
2285.000	21.	147.	9.4	494.7	494.2	0.5
2380.000	69.	352.	3.9	496.7	496.6	0.1
2500.000	58.	297.	4.6	497.3	497.0	0.3
3120.000	70.	307.	4.5	501.2	500.5	0.7
4620.000	50.	283.	4.4	512.7	512.0	0.7
5810.000	136.	506.	2.7	521.2	520.6	0.6
6000.000	101.	378.	2.5	522.2	521.8	0.4
6150.000	71.	272.	3.5	523.1	522.6	0.5
7400.000	62.	186.	5.1	534.5	533.8	0.7
7530.000	100.	216.	4.5	536.2	535.9	0.3
7550.000	171.	550.	1.8	538.5	538.2	0.3
7630.000	120.	521.	1.8	538.5	538.4	0.1

RED
 12/6/77