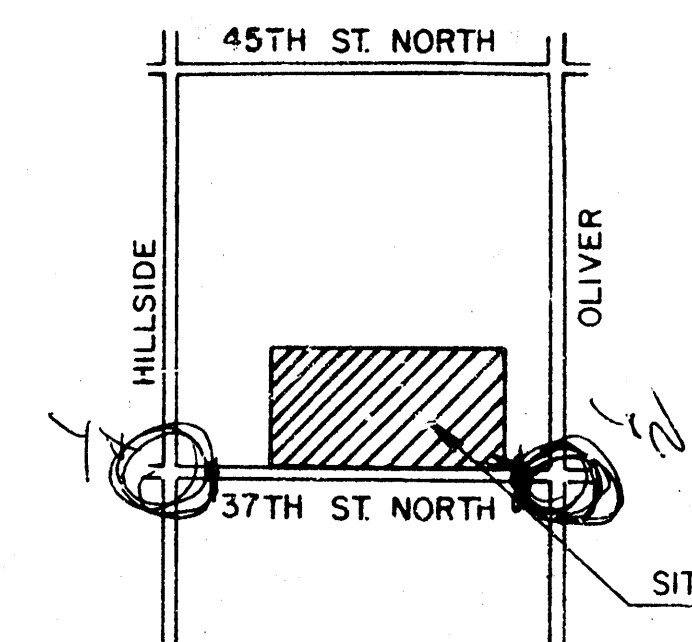
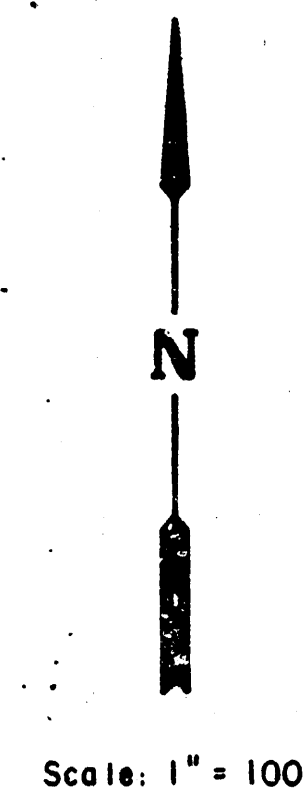
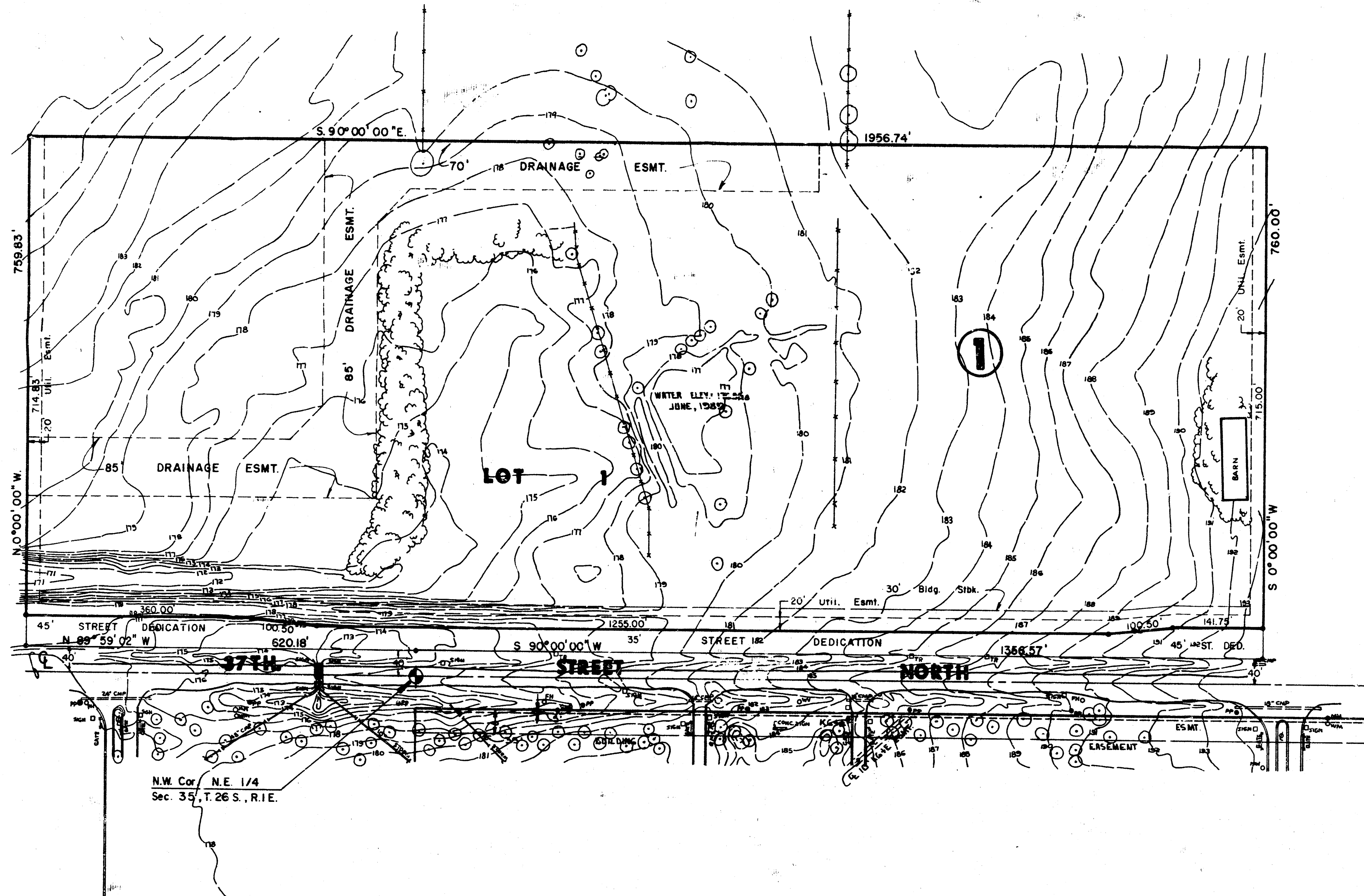


PRELIMINARY PLAT OF
KOCH OFFICE PARK THIRD ADDITION

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



DRAINAGE & UTILITY CONCEPT



**KOCH OFFICE PARK
THIRD ADDITION**
KOCH INDUSTRIES
4111 E. 37TH ST NORTH
67226 PH. 832-5400

MID-KANSAS ENGINEERING CONSULTANTS P.A.
3500 NORTH ROCK ROAD
BUILDING #800
WICHITA, KANSAS 67226
636-5566



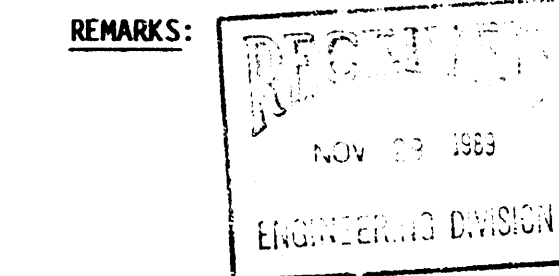
LETTER OF TRANSMITTAL

PROJECT: Koch Office Park 3rd Addition
PROJECT #: DATE: 11/29/89
TO: Vicky Huang
City Engineering Department
455 North Main - 7th Floor
Wichita, KS 67202

We are sending you the following items: ☒ Attached
☐ Under separate cover via
☐ Prints ☐ Specifications ☐ Legal Descriptions
☐ Tracing ☐ Petitions ☐ Correspondence ☐ Other

COMMENTS: One copy of the drainage basin affecting the referenced plat. Also one copy each of the computer runs showing that the Koch parking lot affects the basin runoff by about 20% or five (5) percent.

For Your Approval: ☒ For Your Use ☐ Approved as Noted
As Requested: ☐ For Review and Comment



Signed: Kenneth H. Bengtson, P.E.
President

KHB/mrn

LIST OF INPUT DATA FOR THE HYDROLOGIC MODEL

NO.	NAME	VALUE	UNIT
1	AREA	1.00	AC
2	PERCENT IMPERVIOUS	10.00	PERCENT
3	TIME OF CONCENTRATION	1.00	HRS
4	BASE FLOW	0.00	CFS
5	PEAK FLOW	1.00	CFS
6	TIME TO PEAK	1.00	HRS
7	BASE FLOW	0.00	CFS
8	PEAK FLOW	1.00	CFS
9	TIME TO PEAK	1.00	HRS
10	BASE FLOW	0.00	CFS
11	PEAK FLOW	1.00	CFS
12	TIME TO PEAK	1.00	HRS
13	BASE FLOW	0.00	CFS
14	PEAK FLOW	1.00	CFS
15	TIME TO PEAK	1.00	HRS
16	BASE FLOW	0.00	CFS
17	PEAK FLOW	1.00	CFS
18	TIME TO PEAK	1.00	HRS
19	BASE FLOW	0.00	CFS
20	PEAK FLOW	1.00	CFS
21	TIME TO PEAK	1.00	HRS
22	BASE FLOW	0.00	CFS
23	PEAK FLOW	1.00	CFS
24	TIME TO PEAK	1.00	HRS
25	BASE FLOW	0.00	CFS
26	PEAK FLOW	1.00	CFS
27	TIME TO PEAK	1.00	HRS
28	BASE FLOW	0.00	CFS
29	PEAK FLOW	1.00	CFS
30	TIME TO PEAK	1.00	HRS

W/O KACH PARKING

LIST OF INPUT DATA FOR THE HYDROLOGIC MODEL

NO.	NAME	VALUE	UNIT
1	AREA	1.00	AC
2	PERCENT IMPERVIOUS	10.00	PERCENT
3	TIME OF CONCENTRATION	1.00	HRS
4	BASE FLOW	0.00	CFS
5	PEAK FLOW	1.00	CFS
6	TIME TO PEAK	1.00	HRS
7	BASE FLOW	0.00	CFS
8	PEAK FLOW	1.00	CFS
9	TIME TO PEAK	1.00	HRS
10	BASE FLOW	0.00	CFS
11	PEAK FLOW	1.00	CFS
12	TIME TO PEAK	1.00	HRS
13	BASE FLOW	0.00	CFS
14	PEAK FLOW	1.00	CFS
15	TIME TO PEAK	1.00	HRS
16	BASE FLOW	0.00	CFS
17	PEAK FLOW	1.00	CFS
18	TIME TO PEAK	1.00	HRS
19	BASE FLOW	0.00	CFS
20	PEAK FLOW	1.00	CFS
21	TIME TO PEAK	1.00	HRS
22	BASE FLOW	0.00	CFS
23	PEAK FLOW	1.00	CFS
24	TIME TO PEAK	1.00	HRS
25	BASE FLOW	0.00	CFS
26	PEAK FLOW	1.00	CFS
27	TIME TO PEAK	1.00	HRS
28	BASE FLOW	0.00	CFS
29	PEAK FLOW	1.00	CFS
30	TIME TO PEAK	1.00	HRS

COMPUTER PROGRAM FOR PROJECT FORMULATION - HYDROLOGIC USER NOTES

THE USER MANUAL FOR THIS PROGRAM IS THE ONLY USED PART OF THE CHANGES FROM THE DRAINAGE VERSION INCLUDE:

REAL ROUTING - THE ROUTING OPTION IN THE PREVIOUS VERSIONS REPLACES THE CURRENT METHOD. DATA DATA PREPARED FOR PREVIOUS VERSIONS BEING UNDER ROUTING COEFFICIENTS WILL NOT RUN ON THIS VERSION.

THE IMPROVED TIME OF CONCENTRATION DATA BEING ROUTING OF A REAL. IT IS RECOMMENDED THAT THE OPTIMAL CROSS SECTION DISCHARGE AREA BE USED WHENEVER NEW CROSS SECTION DATA IS ENTERED. THE ROUTE SHOULD BE CHECKED FOR REASONABLENESS AND ADEQUACY OF INPUT DATA FOR THE COMPUTATION OF IT VALUES USED IN THE ROUTING PROCEDURE.

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HYDROGRAPH CONVERSION - THE PROCEDURE TO CALCULATE THE OPTIMAL TIME INCREMENT AND PEAK TIME OF THE UNIT HYDROGRAPH HAVE BEEN IMPROVED. REAL ROUTING AND TIME INCREMENT FROM THE PREVIOUS VERSION. INPUT HYDROGRAPHS ARE STILL DISCRETELY PRINTED, AND ROUTED AT THE USER SELECTED MAIN TIME INCREMENT.

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PROGRAM CHANGES SINCE MAY 1982:

12/17/82 - CORRECT PEAK RATE FACTOR FOR USER ENTERED DATA.
5/12/83 - CORRECT COMPUTING FOR ---
1. DIVISION OF BASEFLOW TO DIVERSITY OPERATION
2. HYDROGRAPH AND UNIT HYDROGRAPH SLOPE AND MOVE BASEFLOW
3. CROSS SECTION DATA ROUTING POSITION
4. INTERMEDIATE PEAK WITHIN REACH AREA IS LARGER THAN THE AREA
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6. IMPROVED "REAL" TIME INCREMENT FROM "STANDARD" HYDROGRAPH

COCH 37th STREET NORTH & 1/2 MILE POINT 2.5 IN. 100-HR 5-HR 24-HR DUNE 5

REV 05/01/83 10/04/87 25 SEP 1989

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[illegible][illegible]

15 250
REF 0010103

[illegible]

1. DIVISION OF BUREAU OF BUREAU OFFICIALS
2. DIVISION OF BUREAU OF BUREAU OFFICIALS AND BUREAU OFFICIALS
3. DIVISION OF BUREAU OF BUREAU OFFICIALS

4. RECEIVED - FOR THE RECORD
5. RECEIVED - FOR THE RECORD
6. RECEIVED - FOR THE RECORD
7. RECEIVED - FOR THE RECORD

1. REPLACE USER NAME, ERROR CODE, PAGE NO. AND LINE NO. WITH
2. USER OUTPUT DIRECTORY FILE AND CROSS SECTION NUMBER

02/07/00 - CURRENT DATA AND CURRENT REPORT FOR INTERMEDIATE PLUS
CURRENT INFORMATION ON RATING INDEX FOR ELDER
FROM 1994-2000. PARAMETERS FOR SCORING LIMITS
ELIMINATE RATING FROM 1994-2000. THE 1994-2000 RATING INDEX IS

.....

REV 03/01/00

RECEIVED (GENERAL OPERATIONS SECTION) 10/10/68 10:10 AM

SECRET

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

PSC: TIME (HRS) PSC: DISTANCE (FO) PSC: ELEVATION (FEET)
 1.00 100.00 100.00
 1.00 100.00 100.00
 1.00 100.00 100.00

TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE
1:57	01/05/00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
2:00	01/05/00	15:57	23:57	41:40	55:24	71:15	85:00	99:59	1:00:00
3:35	01/05/00	122:73	122:42	115:40	115:06	108:10	107:40	99:59	100:00
4:15	01/05/00								

[illegible]

1.79	0.0000	1.79	0.0000	1.79	0.0000	1.79	0.0000	1.79	0.0000
1.80	0.0000	1.80	0.0000	1.80	0.0000	1.80	0.0000	1.80	0.0000
1.81	0.0000	1.81	0.0000	1.81	0.0000	1.81	0.0000	1.81	0.0000
1.82	0.0000	1.82	0.0000	1.82	0.0000	1.82	0.0000	1.82	0.0000
1.83	0.0000	1.83	0.0000	1.83	0.0000	1.83	0.0000	1.83	0.0000
1.84	0.0000	1.84	0.0000	1.84	0.0000	1.84	0.0000	1.84	0.0000
1.85	0.0000	1.85	0.0000	1.85	0.0000	1.85	0.0000	1.85	0.0000
1.86	0.0000	1.86	0.0000	1.86	0.0000	1.86	0.0000	1.86	0.0000
1.87	0.0000	1.87	0.0000	1.87	0.0000	1.87	0.0000	1.87	0.0000
1.88	0.0000	1.88	0.0000	1.88	0.0000	1.88	0.0000	1.88	0.0000
1.89	0.0000	1.89	0.0000	1.89	0.0000	1.89	0.0000	1.89	0.0000
1.90	0.0000	1.90	0.0000	1.90	0.0000	1.90	0.0000	1.90	0.0000
1.91	0.0000	1.91	0.0000	1.91	0.0000	1.91	0.0000	1.91	0.0000
1.92	0.0000	1.92	0.0000	1.92	0.0000	1.92	0.0000	1.92	0.0000
1.93	0.0000	1.93	0.0000	1.93	0.0000	1.93	0.0000	1.93	0.0000
1.94	0.0000	1.94	0.0000	1.94	0.0000	1.94	0.0000	1.94	0.0000
1.95	0.0000	1.95	0.0000	1.95	0.0000	1.95	0.0000	1.95	0.0000
1.96	0.0000	1.96	0.0000	1.96	0.0000	1.96	0.0000	1.96	0.0000
1.97	0.0000	1.97	0.0000	1.97	0.0000	1.97	0.0000	1.97	0.0000
1.98	0.0000	1.98	0.0000	1.98	0.0000	1.98	0.0000	1.98	0.0000
1.99	0.0000	1.99	0.0000	1.99	0.0000	1.99	0.0000	1.99	0.0000
2.00	0.0000	2.00	0.0000	2.00	0.0000	2.00	0.0000	2.00	0.0000

RATF VALUE ABOVE BASEFLOW = 1.00 INTERFERED POINTS. DATA 178-62. 20-90 178-62. 178-62.

POSITION: REAR CHAIRMAN
 INPUT: MONITORING 6
 OUTPUT: MONITORING 7
 START: ELEVATION: 1550.00

FOIA b(7)(C) 100
FOIA b(7)(D) 100
FOIA b(7)(E) 100

[illegible]

1.06	DISEASE	32.31	32.79	31.34	31.22	30.31	29.17	27.21	25.25
1.38	DISEASE	27.79	25.86	23.85	24.14	23.06	22.42	21.36	20.30
1.66	DISEASE	15.86	14.34	11.84	11.38	10.04	9.30	8.25	7.19
50	DISEASE	1.32	1.27	1.22	1.17	1.12	1.07	1.02	0.97

[illegible]

1000

REV 05/01/03

SALES VALUE ADJUSTMENT = 1.00 (100.00% INCREASE) 2.00 (200.00% INCREASE) 3.00 (300.00% INCREASE) 4.00 (400.00% INCREASE) 5.00 (500.00% INCREASE)

REACTIVE CONTROL MECHANISM: OPERATIONS CONTROL FOR PAGE 4

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (○), 10⁷ cells/ml (□), 10⁸ cells/ml (△), and 10⁹ cells/ml (◇). The error bars represent the standard deviation of three independent experiments.

REF ID: A67098

1. The first part of the document is a list of names and their corresponding dates. The names are: "John Doe", "Jane Smith", "Bob Johnson", "Alice Brown", "Charlie White", "David Green", "Eve Black", "Frank Gray", "Grace Pink", "Henry Blue", "Ivy Yellow", "Jack Purple", "Karen Red", "Leo Orange", "Mia Silver", "Noah Gold", "Olivia Bronze", "Peter Copper", "Quinn Iron", "Rory Steel", "Sam Tin", "Tina Lead", "Uma Zinc", "Victor Nickel", "Wendy Platinum", "Xavier Silver", "Yara Gold", "Zoe Bronze". The dates are: "1990-01-01", "1990-02-01", "1990-03-01", "1990-04-01", "1990-05-01", "1990-06-01", "1990-07-01", "1990-08-01", "1990-09-01", "1990-10-01", "1990-11-01", "1990-12-01", "1991-01-01", "1991-02-01", "1991-03-01", "1991-04-01", "1991-05-01", "1991-06-01", "1991-07-01", "1991-08-01", "1991-09-01", "1991-10-01", "1991-11-01", "1991-12-01", "1992-01-01", "1992-02-01", "1992-03-01", "1992-04-01", "1992-05-01", "1992-06-01", "1992-07-01", "1992-08-01", "1992-09-01", "1992-10-01", "1992-11-01", "1992-12-01".

DATE: 10/11/1971 TIME: 10:00 AM PAGE: 10 OF 10

[illegible][illegible]

17.49	0101.49	19.37	19.37	17.60	17.60	17.38	17.38	19.11	19.11	19.11	19.11	19.11	19.11
18.39	0101.39	18.26	18.26	18.35	18.35	18.41	18.41	18.58	18.58	18.79	18.79	18.79	18.79
18.16	0101.16	14.25	14.25	15.34	15.34	15.64	15.64	15.31	15.31	15.27	15.27	15.27	15.27
18.16	0101.16	14.25	14.25	15.34	15.34	15.64	15.64	15.31	15.31	15.27	15.27	15.27	15.27

27.49	010746	7.01	6.87	6.73	6.58	6.45	6.29	6.14	6.00	5.87	5.73	5.59	5.45	5.31	5.17	5.03	4.89	4.75	4.61	4.47	4.33	4.19	4.05	3.91	3.77	3.63	3.49	3.35	3.21	3.07	2.93	2.79	2.65	2.51	2.37	2.23	2.09	1.95	1.81	1.67	1.53	1.39	1.25	1.11	0.97	0.83	0.69	0.55	0.41	0.27	0.13	0.00	-0.13	-0.27	-0.41	-0.55	-0.69	-0.83	-0.97	-1.11	-1.25	-1.39	-1.53	-1.67	-1.81	-1.95	-2.09	-2.23	-2.37	-2.51	-2.65	-2.79	-2.93	-3.07	-3.21	-3.35	-3.49	-3.63	-3.77	-3.91	-4.05	-4.19	-4.33	-4.47	-4.61	-4.75	-4.89	-5.03	-5.17	-5.31	-5.45	-5.59	-5.73	-5.87	-6.00	-6.14	-6.29	-6.45	-6.58	-6.73	-6.87	-7.01	-7.15	-7.29	-7.43	-7.57	-7.71	-7.85	-7.99	-8.13	-8.27	-8.41	-8.55	-8.69	-8.83	-8.97	-9.11	-9.25	-9.39	-9.53	-9.67	-9.81	-9.95	-10.09	-10.23	-10.37	-10.51	-10.65	-10.79	-10.93	-11.07	-11.21	-11.35	-11.49	-11.63	-11.77	-11.91	-12.05	-12.19	-12.33	-12.47	-12.61	-12.75	-12.89	-13.03	-13.17	-13.31	-13.45	-13.59	-13.73	-13.87	-14.01	-14.15	-14.29	-14.43	-14.57	-14.71	-14.85	-14.99	-15.13	-15.27	-15.41	-15.55	-15.69	-15.83	-15.97	-16.11	-16.25	-16.39	-16.53	-16.67	-16.81	-16.95	-17.09	-17.23	-17.37	-17.51	-17.65	-17.79	-17.93	-18.07	-18.21	-18.35	-18.49	-18.63	-18.77	-18.91	-19.05	-19.19	-19.33	-19.47	-19.61	-19.75	-19.89	-20.03	-20.17	-20.31	-20.45	-20.59	-20.73	-20.87	-21.01	-21.15	-21.29	-21.43	-21.57	-21.71	-21.85	-21.99	-22.13	-22.27	-22.41	-22.55	-22.69	-22.83	-22.97	-23.11	-23.25	-23.39	-23.53	-23.67	-23.81	-23.95	-24.09	-24.23	-24.37	-24.51	-24.65	-24.79	-24.93	-25.07	-25.21	-25.35	-25.49	-25.63	-25.77	-25.91	-26.05	-26.19	-26.33	-26.47	-26.61	-26.75	-26.89	-27.03	-27.17	-27.31	-27.45	-27.59	-27.73	-27.87	-28.01	-28.15	-28.29	-28.43	-28.57	-28.71	-28.85	-28.99	-29.13	-29.27	-29.41	-29.55	-29.69	-29.83	-29.97	-30.11	-30.25	-30.39	-30.53	-30.67	-30.81	-30.95	-31.09	-31.23	-31.37	-31.51	-31.65	-31.79	-31.93	-32.07	-32.21	-32.35	-32.49	-32.63	-32.77	-32.91	-33.05	-33.19	-33.33	-33.47	-33.61	-33.75	-33.89	-34.03	-34.17	-34.31	-34.45	-34.59	-34.73	-34.87	-35.01	-35.15	-35.29	-35.43	-35.57	-35.71	-35.85	-35.99	-36.13	-36.27	-36.41	-36.55	-36.69	-36.83	-36.97	-37.11	-37.25	-37.39	-37.53	-37.67	-37.81	-37.95	-38.09	-38.23	-38.37	-38.51	-38.65	-38.79	-38.93	-39.07	-39.21	-39.35	-39.49	-39.63	-39.77	-39.91	-40.05	-40.19	-40.33	-40.47	-40.61	-40.75	-40.89	-41.03	-41.17	-41.31	-41.45	-41.59	-41.73	-41.87	-42.01	-42.15	-42.29	-42.43	-42.57	-42.71	-42.85	-42.99	-43.13	-43.27	-43.41	-43.55	-43.69	-43.83	-43.97	-44.11	-44.25	-44.39	-44.53	-44.67	-44.81	-44.95	-45.09	-45.23	-45.37	-45.51	-45.65	-45.79	-45.93	-46.07	-46.21	-46.35	-46.49	-46.63	-46.77	-46.91	-47.05	-47.19	-47.33	-47.47	-47.61	-47.75	-47.89	-48.03	-48.17	-48.31	-48.45	-48.59	-48.73	-48.87	-49.01	-49.15	-49.29	-49.43	-49.57	-49.71	-49.85	-49.99	-50.13	-50.27	-50.41	-50.55	-50.69	-50.83	-50.97	-51.11	-51.25	-51.39	-51.53</
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19.96	218.02	1.87	2.65	1.74	1.60	1.52	1.45	1.41	1.36	1.31	1.27
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