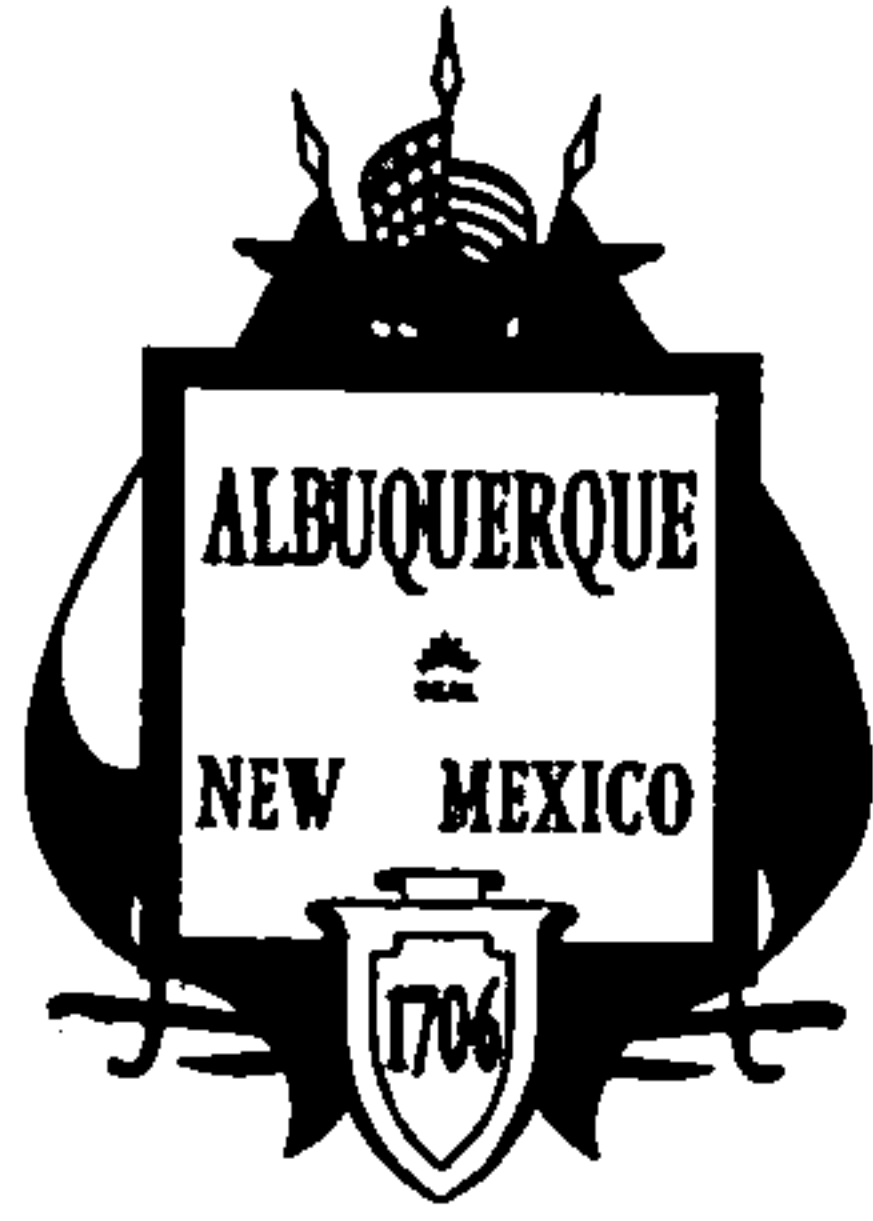




City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 17, 1998

Greg Krenick
Mark Goodwin & Associates
P.O. Box 90606
Albuquerque, New Mexico 87199

RE: DRAINAGE PLAN FOR CIRCLE K @ GIBSON BLVD. SW(M-9/D17) ENGINEER'S
STAMP DATED 11/0/98

Dear Mr Krenick:

Based on the information provided on your November 20, 1998 submittal, the above referenced site is approved for building permit.

If I can be of any further assistance, please feel free to contact me at 924-3330.

C: file

Sincerely,

Andrew Garcia
Drainage Inspector

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Circle K - Gibson Blvd SW ZONE/ATLAS/DRNG, FILE#: M-9 / D-18
DRB#: EPC# WORK ORDER#:
LEGAL DESCRIPTION: TRACT 50A, UNIT No. 5, ATRISCO VILLAGE
CITY ADDRESS: 10,000 Gibson Blvd SW

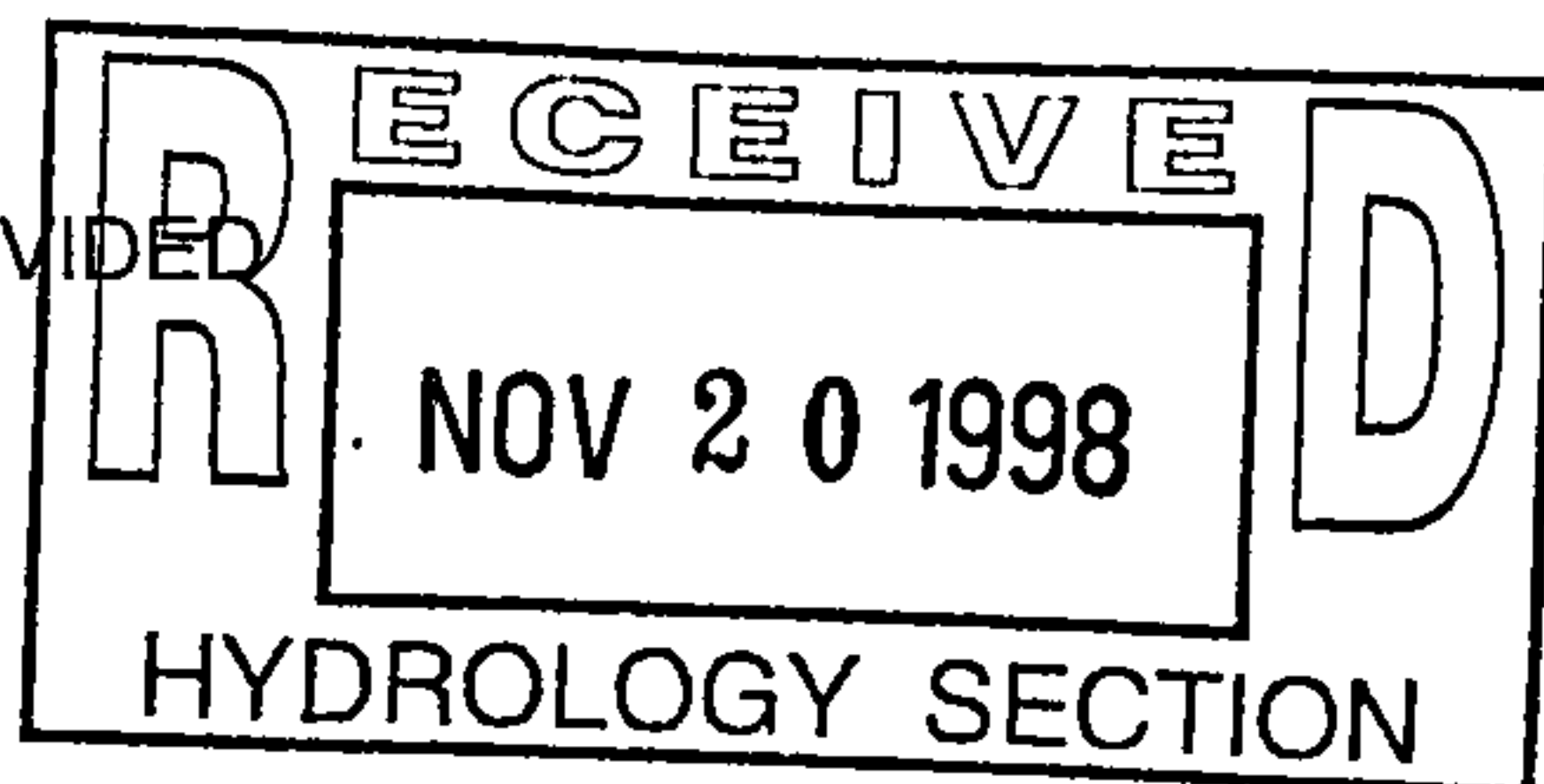
ENGINEERING FIRM:	Mark Goodwin & Associates, PA	CONTACT:	Gregory J. Krenik, PE
ADDRESS:	P.O. Box 90606, Albuquerque, NM 87199	PHONE:	828-2200
OWNER:	Circle K	CONTACT:	Doug Heller
ADDRESS:	3550 N. Central Ave., Suite 400, Phoenix, 85012	PHONE:	884-9110
ARCHITECT:	George Rainhart	CONTACT:	Doug Heller
ADDRESS:	2325 San Pedro NE, Suite 2B, Albuquerque, NM 87110	PHONE:	884-9110
SURVEYOR:	N/A	CONTACT:	
ADDRESS:		PHONE:	
CONTACTOR:	N/A	CONTACT:	
ADDRESS:		PHONE:	

TYPE OF SUBMITTAL:

☒ DRAINAGE REPORT
☒ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☒ GRADING PLAN
☐ EROSION CONTROL
☐ ENGINEER'S CERTIFICATION
☐ OTHER
☐ EASEMENT VACATION

PRE-DESIGN MEETING:

☐ YES
☐ NO
☐ COPY PROVIDED



CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D APPROVAL
☐ S. DEV. PLAN FOR BLDG PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☒ BUILDING PERMIT APPROVAL
☐ CERTIFICATION OF OCCUPANCY APPROVAL
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ S.A.D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☐ OTHER
☐ RELEASE OF FINANCIAL GUARANTY

DATE SUBMITTED: 11-20-98
BY: Gregory J. Krenik, PE

WE ADDED THE
ADDITIONAL TOPO
YOU REQUESTED



October 30, 1998

Greg Krenik
Mark Goodwin & Associates
P.O. Box 90606
Albuquerque, New Mexico 87199

RE: DRAINAGE PLAN FOR CIRCLE K @ GIBSON BLVD. SW (M9-D17) ENGINEER'S
STAMP DATED 10/8/98

Dear Mr. Krenik:

Based on the information provided on your October 8, 1998 submittal, listed are some concerns that will need to be addressed prior to final approval:

1. Top of curb and flow line elevations on Gibson Blvd. SW.
2. Location and direction of roof drains.
3. More spot elevations around the building to reflect off-site flows and on-site flows.

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia
File ✓

Sincerely

Bernie J. Montoya CE
Associate Engineer

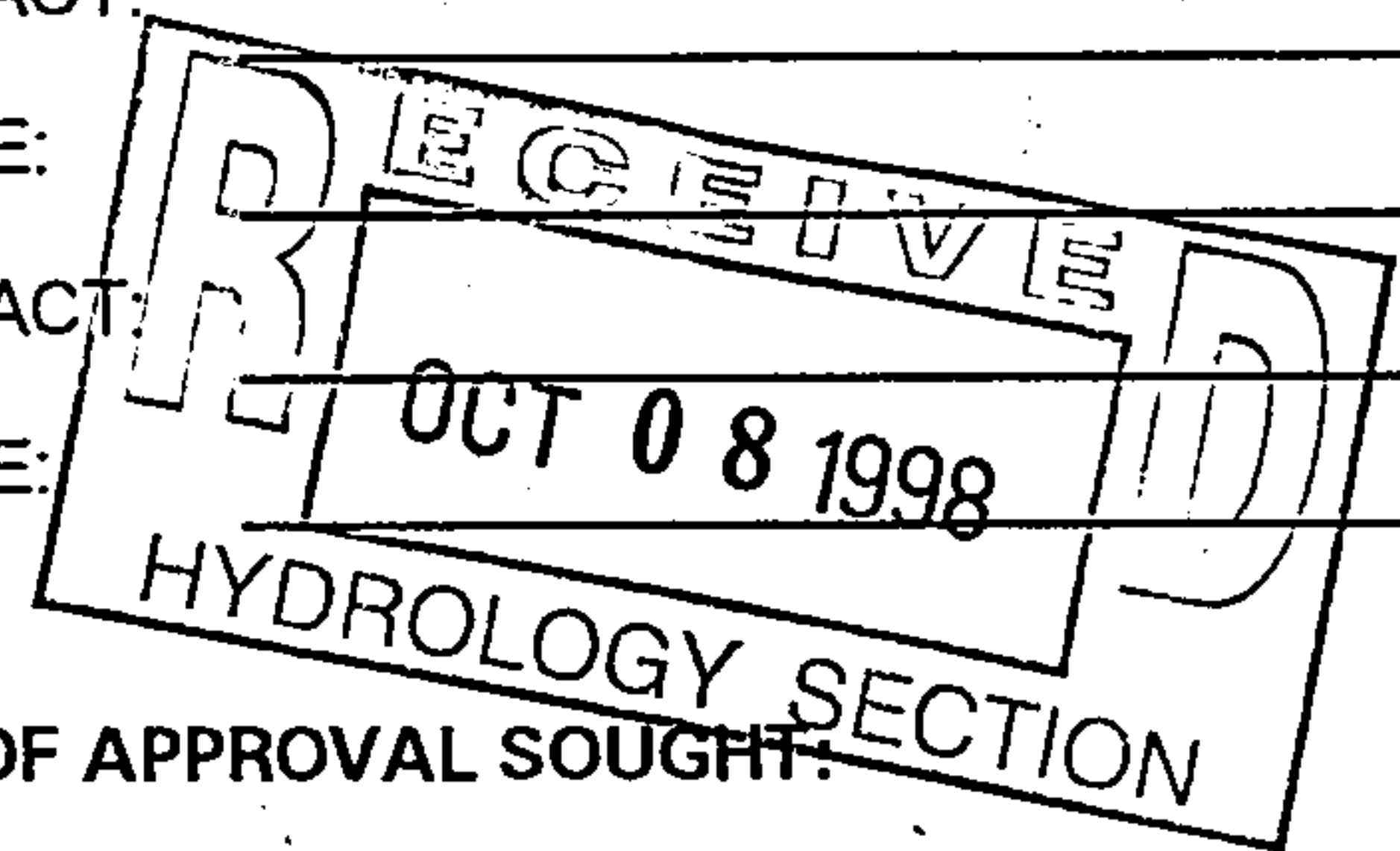


DRAINAGE INFORMATION SHEET

PROJECT TITLE: Circle K - Gibson Blvd SW ZONE/ATLAS/DRNG, FILE#: M-9 *New*
DRB#: EPC# WORK ORDER#: *10/18*
LEGAL DESCRIPTION: TRACT 50A, UNIT No. 5, ATRISCO VILLAGE
CITY ADDRESS: 10,000 Gibson Blvd SW

ENGINEERING FIRM: Mark Goodwin & Associates, PA
ADDRESS: P.O. Box 90606, Albuquerque, NM 87199
OWNER: Circle K
ADDRESS: 3550 N. Central Ave., Suite 400, Phoenix, 85012
ARCHITECT: George Rainhart
ADDRESS: 2325 San Pedro NE, Suite 2B, Albuquerque, NM 87110
SURVEYOR: N/A
ADDRESS:
CONTACTOR: N/A
ADDRESS:

CONTACT: Gregory J. Krenik, PE
PHONE: 828-2200
CONTACT: Doug Heller
PHONE: 884-9110
CONTACT: Doug Heller
PHONE: 884-9110
CONTACT:
PHONE:
CONTACT:
PHONE:



TYPE OF SUBMITTAL:

☒ DRAINAGE REPORT
☒ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☒ GRADING PLAN
☐ EROSION CONTROL
☐ ENGINEER'S CERTIFICATION
☐ OTHER
☐ EASEMENT VACATION

PRE-DESIGN MEETING:

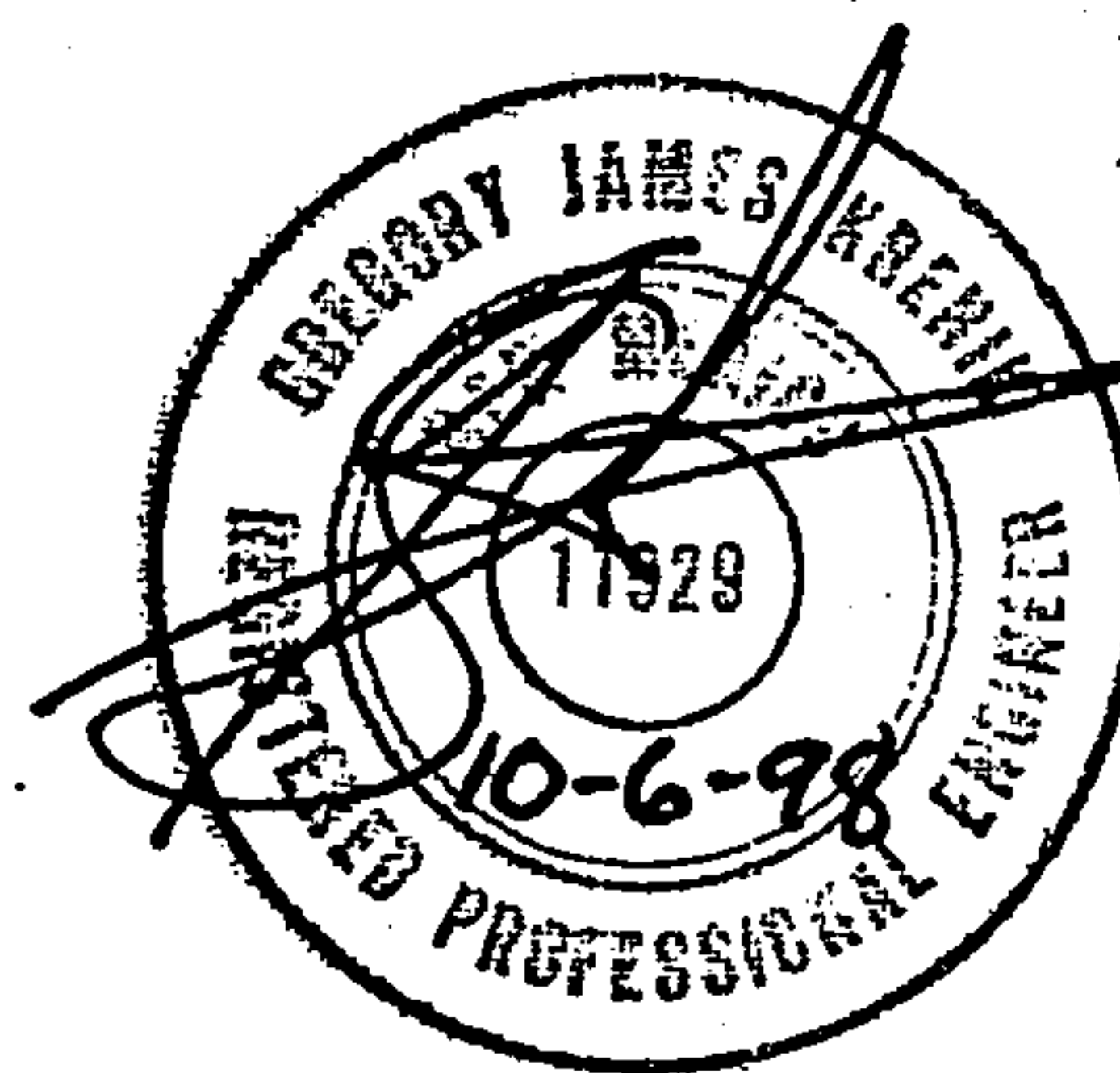
☐ YES
☐ NO
☐ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D APPROVAL
☐ S. DEV. PLAN FOR BLDG PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☒ BUILDING PERMIT APPROVAL
☐ CERTIFICATION OF OCCUPANCY APPROVAL
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ S.A.D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☐ OTHER
☐ RELEASE OF FINANCIAL GUARANTY

DATE SUBMITTED: 10-8-98
BY: Gregory J. Krenik, PE

DRAINAGE CALCULATIONS
for
CIRCLE K on GIBSON BLVD SW





D. Mark Goodwin & Associates, P.A.
Consulting Engineers

P.O. BOX 90606, ALBUQUERQUE, NM 87199
(505) 828-2200 FAX 797-9539
e-mail: dmgs@swcp.com

October 6, 1998

Hydrology Reviewer
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

Re: Circle K - Gibson Blvd SW

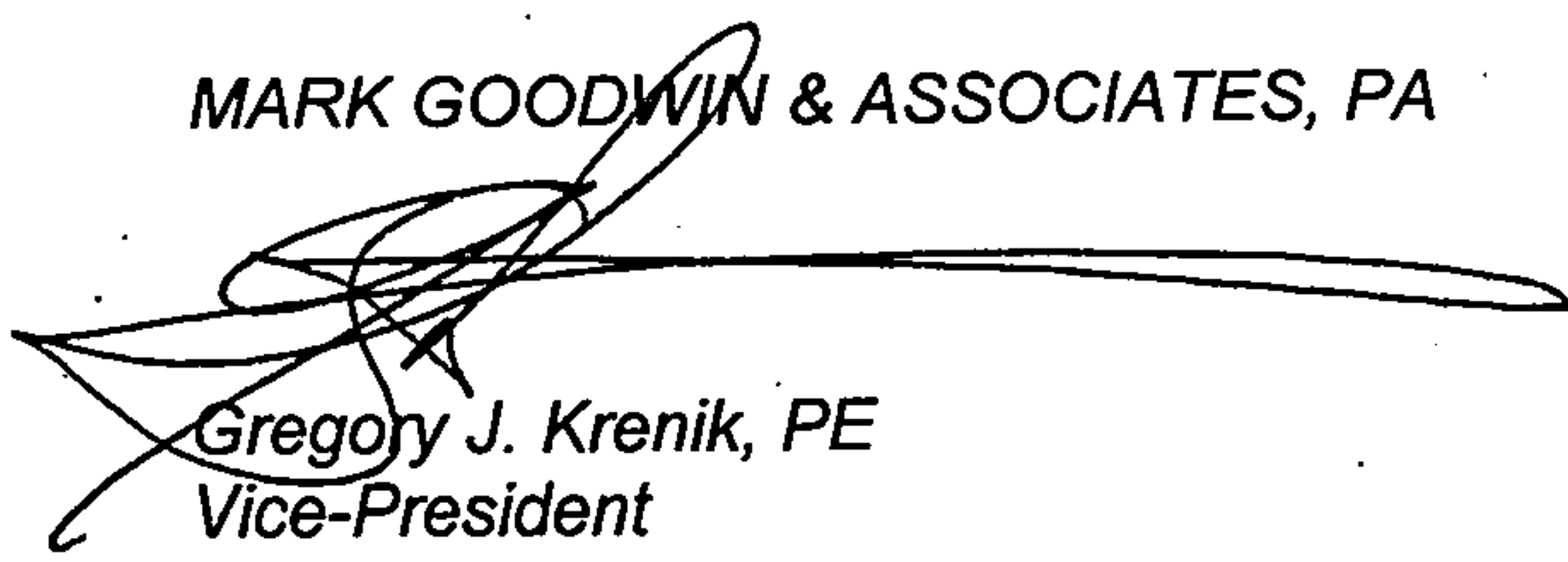
Dear Reviewer:

This existing site is 100% type "D" land treatment. The owners are replacing the fuel tanks and pump island. Also with these changes they are adding landscaping along Gibson and the property line to the east. With these changes the site will have a reduction of runoff from the existing conditions of 0.11 cfs. All concrete removed for the tank replacement will be repoured to the same grades as existing. Also they are removing the curb and gutter along Gibson to eliminate the existing 3 driveways and repouring the curb and gutter to only have 2 driveways. This they will do with their building permit.

Please call if you have any questions or concerns.

Sincerely,

MARK GOODWIN & ASSOCIATES, PA



Gregory J. Krenik, PE
Vice-President

GJK/st

f:\circle-k.gib\hydrolog.y



D. Mark Goodwin & Associates, P.A.
Consulting Engineers and Surveyors

PROJECT GIBSON SW CIRCLE K
SUBJECT DRAINAGE CALCS
BY GJK DATE 10-6-98
CHECKED _____ DATE _____
SHEET 1 OF _____

- THIS SITE IS AN EXISTING SITE OF 100% TYPE "D" LAND TREATMENT.
- SITE IS CURRENTLY DIRECT DISCHARGING TO GIBSON BLVD. ALONG THE PROPERTY LINE TO THE SW IS THE SNOW VISTA CHANNEL. THIS FACT MAKES THIS SITE THE FARTHEST UPSTREAM PARCEL OF THE DRAINAGE BASIN IT'S IN.
- SITE IS NOT IN A 100 YEAR FLOOD ZONE.
- OFFSITE FLOWS DO NOT IMPACT THE SITE.
- OWNER IS CHANGING OUT TANKS AND PUMP ISLAND WHILE ADDING LANDSCAPE ISLANDS.
- OWNER WILL MODIFY CURB AND GUTTER ALONG GIBSON TO REDUCE 3 DRIVEWAYS TO 2 AS PART OF HIS BLDG. PERMIT.

SITE AREA = 0.4247 AC.

$P_1 = 1.90 \text{ in}$

$P_6 = 2.20 \text{ in}$

$P_{24} = 2.70 \text{ in}$

EXISTING CONDITIONS

100% D

FROM HYDRO SHEETS 2-4

$Q = 1.89 \text{ CFS}$

PROPOSED CONDITIONS

TYPE B = 11.84%

TYPE D = 88.16%

FROM HYDRO SHEETS 5-7

$Q = 1.78 \text{ CFS}$

- FROM THIS THERE IS A 0.11 CFS REDUCTION IN FLOWS FROM THE SITE.

START TIME=0.0
***** HYDROGRAPH FOR GIBON SW CIRCLE K EXISTING
RAINFALL TYPE=1 RAIN QUARTER=0.0 IN
RAIN ONE=1.90 IN RAIN SIX=2.20 IN
RAIN DAY=2.70 IN DT=0.03333 HR
COMPUTE NM HYD ID=1 HYD NO=101.1 AREA=0.000664 SQ MI
PER A=0 B=0 C=0 D=100
TP=0.1333 HR MASS RAINFALL=-1
PRINT HYD ID=1 CODE=1
FINISH

3

AHYMO PROGRAM (AHYMO194) - AMAFCA Hydrologic Model - January, 1994
RUN DATE (MON/DAY/YR) = 10/06/1998
START TIME (HR:MIN:SEC) = 12:59:02 USER NO.= M_GOODWN.I01
INPUT FILE = GIBCIRK.DAT

START TIME=0.0
***** HYDROGRAPH FOR GIBON SW CIRCLE K EXISTING
RAINFALL TYPE=1 RAIN QUARTER=0.0 IN
 RAIN ONE=1.90 IN RAIN SIX=2.20 IN
 RAIN DAY=2.70 IN DT=0.03333 HR

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 H
DT = .033330 HOURS END TIME = 5.999400 HOURS

.0000	.0013	.0027	.0041	.0055	.0069	.0084
.0099	.0115	.0131	.0147	.0164	.0181	.0199
.0217	.0236	.0256	.0276	.0296	.0318	.0340
.0363	.0387	.0412	.0438	.0465	.0493	.0523
.0554	.0587	.0622	.0675	.0731	.0791	.0920
.1208	.1651	.2289	.3159	.4302	.5759	.7574
.9790	1.1846	1.2704	1.3429	1.4074	1.4661	1.5201
1.5702	1.6171	1.6610	1.7023	1.7413	1.7781	1.8130
1.8460	1.8774	1.9071	1.9353	1.9621	1.9681	1.9736
1.9789	1.9839	1.9887	1.9932	1.9976	2.0018	2.0059
2.0098	2.0136	2.0172	2.0208	2.0242	2.0275	2.0308
2.0339	2.0370	2.0400	2.0430	2.0458	2.0486	2.0514
2.0540	2.0567	2.0592	2.0617	2.0642	2.0666	2.0690
2.0714	2.0737	2.0759	2.0781	2.0803	2.0825	2.0846
2.0867	2.0887	2.0907	2.0927	2.0947	2.0966	2.0985
2.1004	2.1023	2.1041	2.1059	2.1077	2.1095	2.1112
2.1130	2.1147	2.1164	2.1180	2.1197	2.1213	2.1229
2.1245	2.1261	2.1277	2.1292	2.1307	2.1322	2.1337
2.1352	2.1367	2.1382	2.1396	2.1410	2.1425	2.1439
2.1452	2.1466	2.1480	2.1494	2.1507	2.1520	2.1533
2.1547	2.1560	2.1572	2.1585	2.1598	2.1611	2.1623
2.1635	2.1648	2.1660	2.1672	2.1684	2.1696	2.1708
2.1720	2.1731	2.1743	2.1754	2.1766	2.1777	2.1789
2.1800	2.1811	2.1822	2.1833	2.1844	2.1855	2.1866
2.1876	2.1887	2.1897	2.1908	2.1918	2.1929	2.1939
2.1949	2.1960	2.1970	2.1980	2.1990	2.2000	

COMPUTE NM HYD ID=1 HYD NO=101.1 AREA=0.000664 SQ MI
 PER A=0 B=0 C=0 D=100
 TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
UNIT PEAK = 2.6215 CFS UNIT VOLUME = .9949 B = 526.28 P60 = 1.90
AREA = .000664 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=1 CODE=1

PARTIAL HYDROGRAPH 101.10

RUNOFF VOLUME = 1.96638 INCHES = .0696 ACRE-FEET
PEAK DISCHARGE RATE = 1.89 CFS AT 1.500 HOURS BASIN AREA = .0007 SQ. MI.

4
FINISH

COMMAND NOT IN TABLE

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 12:59:02

START

TIME=0.0

***** HYDROGRAPH FOR GIBON SW CIRCLE K DEVELOPED

RAINFALL

TYPE=1 RAIN QUARTER=0.0 IN

RAIN ONE=1.90 IN RAIN SIX=2.20 IN

RAIN DAY=2.70 IN DT=0.03333 HR

COMPUTE NM HYD

ID=1 HYD NO=101.1 AREA=0.000664 SQ MI

PER A=0 B=11.84 C=0 D=88.16

TP=0.1333 HR MASS RAINFALL=-1

PRINT HYD

ID=1 CODE=1

FINISH

5

6

AHYMO PROGRAM (AHYMO194) - AMAFCA Hydrologic Model - January, 1994
RUN DATE (MON/DAY/YR) = 10/06/1998
START TIME (HR:MIN:SEC) = 13:01:11 USER NO.= M_GOODWN.I01
INPUT FILE = GIBCIRKD.DAT

START TIME=0.0
***** HYDROGRAPH FOR GIBON SW CIRCLE K DEVELOPED
RAINFALL TYPE=1 RAIN QUARTER=0.0 IN
 RAIN ONE=1.90 IN RAIN SIX=2.20 IN
 RAIN DAY=2.70 IN DT=0.03333 HR

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 H
DT = .033330 HOURS END TIME = 5.999400 HOURS

.0000	.0013	.0027	.0041	.0055	.0069	.0084
.0099	.0115	.0131	.0147	.0164	.0181	.0199
.0217	.0236	.0256	.0276	.0296	.0318	.0340
.0363	.0387	.0412	.0438	.0465	.0493	.0523
.0554	.0587	.0622	.0675	.0731	.0791	.0920
.1208	.1651	.2289	.3159	.4302	.5759	.7574
.9790	1.1846	1.2704	1.3429	1.4074	1.4661	1.5201
1.5702	1.6171	1.6610	1.7023	1.7413	1.7781	1.8130
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1.9789	1.9839	1.9887	1.9932	1.9976	2.0018	2.0059
2.0098	2.0136	2.0172	2.0208	2.0242	2.0275	2.0308
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2.1130	2.1147	2.1164	2.1180	2.1197	2.1213	2.1229
2.1245	2.1261	2.1277	2.1292	2.1307	2.1322	2.1337
2.1352	2.1367	2.1382	2.1396	2.1410	2.1425	2.1439
2.1452	2.1466	2.1480	2.1494	2.1507	2.1520	2.1533
2.1547	2.1560	2.1572	2.1585	2.1598	2.1611	2.1623
2.1635	2.1648	2.1660	2.1672	2.1684	2.1696	2.1708
2.1720	2.1731	2.1743	2.1754	2.1766	2.1777	2.1789
2.1800	2.1811	2.1822	2.1833	2.1844	2.1855	2.1866
2.1876	2.1887	2.1897	2.1908	2.1918	2.1929	2.1939
2.1949	2.1960	2.1970	2.1980	2.1990	2.2000	

COMPUTE NM HYD ID=1 HYD NO=101.1 AREA=0.000664 SQ MI
 PER A=0 B=11.84 C=0 D=88.16
 TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
UNIT PEAK = 2.3111 CFS UNIT VOLUME = .9941 B = 526.28 P60 = 1.90
AREA = .000585 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .130761HR TP = .133300HR K/TP RATIO = .980950 SHAPE CONSTANT, N =
UNIT PEAK = .19318 CFS UNIT VOLUME = .9298 B = 327.55 P60 = 1.90
AREA = .000079 SQ MI IA = .50000 INCHES INF = 1.25000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=1 CODE=1

PARTIAL HYDROGRAPH 101.10

7
RUNOFF VOLUME = 1.81419 INCHES = .0642 ACRE-FEET
PEAK DISCHARGE RATE = 1.78 CFS AT 1.500 HOURS BASIN AREA = .0007 SQ. MI.

FINISH

COMMAND NOT IN TABLE

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 13:01:11