CITY OF ALBUQUERQUE

ALBUQUERQUE
Making History

September 9, 2005

Brian L. Speicher, P.E.
Community Sciences Corp.
PO Box 1328
Corrales, NM 87048

Re: Drivetime Addition Grading and Drainage Plan
Engineer's Stamp dated 9-02-05 (K20-D55)

Dear Mr. Speicher,

Based upon the information provided in your submittal received 9-05-05, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. **Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.**

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. If you have any questions regarding this permit please feel free to call the DMD Storm Drainage Design section at 768-3654 (Charles Caruso).

If you have any questions, you can contact me at 924-3695.

Sincerely,

Rudy E. Rael, Associate Eng.
Planning Department.
Development and Building Services

C: Charles Caruso, DMD Storm Drainage Design
CC: File

P.O. Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

DRAINAGE INFORMATION SHEET
(REV. 11/01/2001)

PROJECT TITLE: DRIVETIME Addition ZONE MAP/DRG. FILE #: K-20/D55
DRB #: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION:
CITY ADDRESS: 700-704 Wyoming Blvd. NE

ENGINEERING FIRM: COMMUNITY SCIENCES CORP. CONTACT: BRIAN SPEICHER
ADDRESS: P.O. BOX 1328 PHONE: 897-0000
CITY, STATE: CORRALES NM 87048 ZIP CODE: 87048

OWNER: DRIVETIME CAR SALES CONTACT: DAN PACKOWSKI
ADDRESS: 4020 E. INDIAN SCHOOL RD PHONE: 1-602-852-6600
CITY, STATE: PHOENIX, AZ 85018 ZIP CODE: 85018

ARCHITECT: JLS ARCHITECTS CONTACT: DAN HERR
ADDRESS: 1600 RIO GRANDE BLVD NW PHONE: (505) 246-0870
CITY, STATE: ALBUQUERQUE, NM 87104 ZIP CODE:

SURVEYOR: COMMUNITY SCIENCES CORP CONTACT: TOM PATRICK
ADDRESS P.O. BOX 1328 PHONE: 897-0000
CITY, STATE: CORRALES, NM 87048 ZIP CODE: 87048

CONTRACTOR: CONTACT:
ADDRESS: PHONE:
CITY, STATE: ZIP CODE:

CHECK TYPE OF SUBMITTAL:
- ____ DRAINAGE REPORT
- X DRAINAGE PLAN
- ____ CONCEPTUAL GRADING & DRAINAGE PLAN
- ____ GRADING PLAN
- ____ EROSION CONTROL PLAN
- ____ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ____ CLOMR/LOMR
- ____ TRAFFIC CIRCULATION LAYOUT (TCL)
- ____ ENGINEERS CERTIFICATION (TCL)
- ____ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- ____ OTHER

CHECK TYPE OF APPROVAL SOUGHT:
- ____ SIA / FINANCIAL GUARANTEE RELEASE
- ____ 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
- X BUILDING PERMIT APPROVAL
- ____ CERTIFICATE OF OCCUPANCY (PERM.)
- ____ CERTIFICATE OF OCCUPANCY (TEMP.)
- ____ GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:
- ____ YES
- ____ NO
- ____ COPY PROVIDED

RECEIVED
SEP - 6 2005
HYDROLOGY SECTION

DATE SUBMITTED: _____ BY: _____

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5)
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or

Fee paid @ 50.00

RECEIVED
SEP 06 2005
HYDROLOGY SECTION

FORM DRWS: DRAINAGE REPORT / WATER & SEWER AVAILABILITY

THIS FORM IS REQUIRED WITH THE DEVELOPMENT REVIEW BOARD APPLICATION FOR MAJOR SUBDIVISIONS AND SITE DEVELOPMENT PLANS.

PROJECT NAME DRIVETIME

AGIS MAP # K-20-Z

LEGAL DESCRIPTION TRACT B-1 MUNICIPAL ADDITION #2

X **DRAINAGE REPORT**

A drainage report, as per the Drainage Ordinance, was submitted to the City of Albuquerque Public Works Department, Hydrology Division (2nd floor Plaza del Sol) on 9/6/05 [date].

BRIAN SPEICHER / COMMUNITY SCIENCES — 9/2/05

Applicant / Agent — Date

Hydrology Division Representative — Date

____ **WATER AND SEWER AVAILABILITY STATEMENT**

A Water and Sewer Availability Statement for this project was requested from the City of Albuquerque Utilities Development Division (2nd floor Plaza del Sol) on _____ [date].

Applicant / Agent — Date

Utilities Division Representative — Date

RECEIVED
SEP 06 2005
HYDROLOGY SECTION

DRB#____-_____

Tract B-1
Municipal Addition No. 2

Drainage Report

September 2005

Prepared for:

DriveTime™

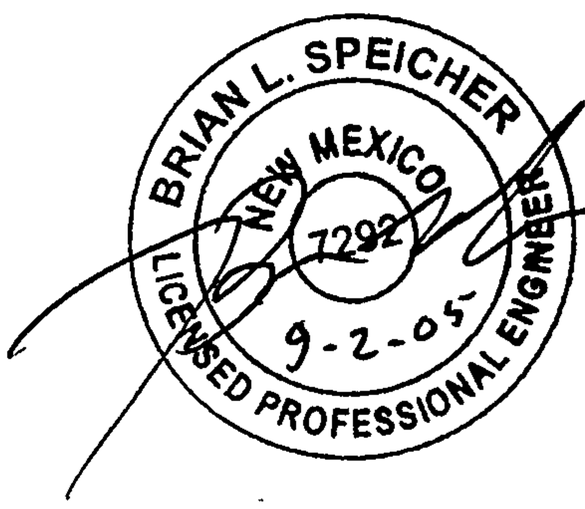
Prepared By:

Community Sciences Corporation
P.O. Box 1328 / 4481 Corrales Road
Corrales, New Mexico 87048
505/897.0000

Brian L. Speicher, P.E.

DRAINAGE REPORT
FOR
DRIVETIME FACILITY ADDITION
ALBUQUERQUE, NM

COMMUNITY SCIENCES CORPORATION
PO BOX 1328
CORRALES, NM 87048



BRIAN L. SPEICHER, PE

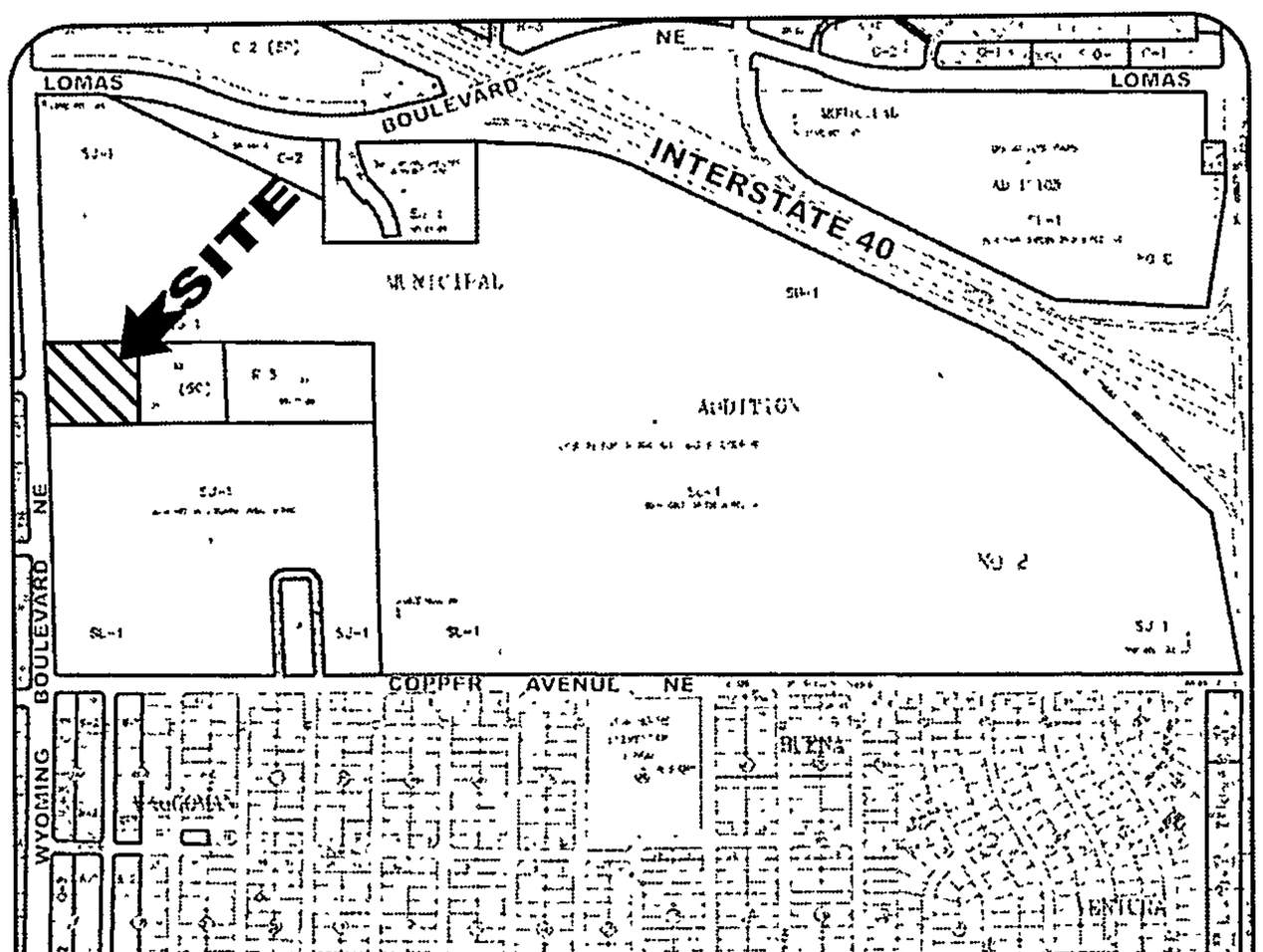
TABLE OF CONTENTS

PROJECT SYNOPSIS

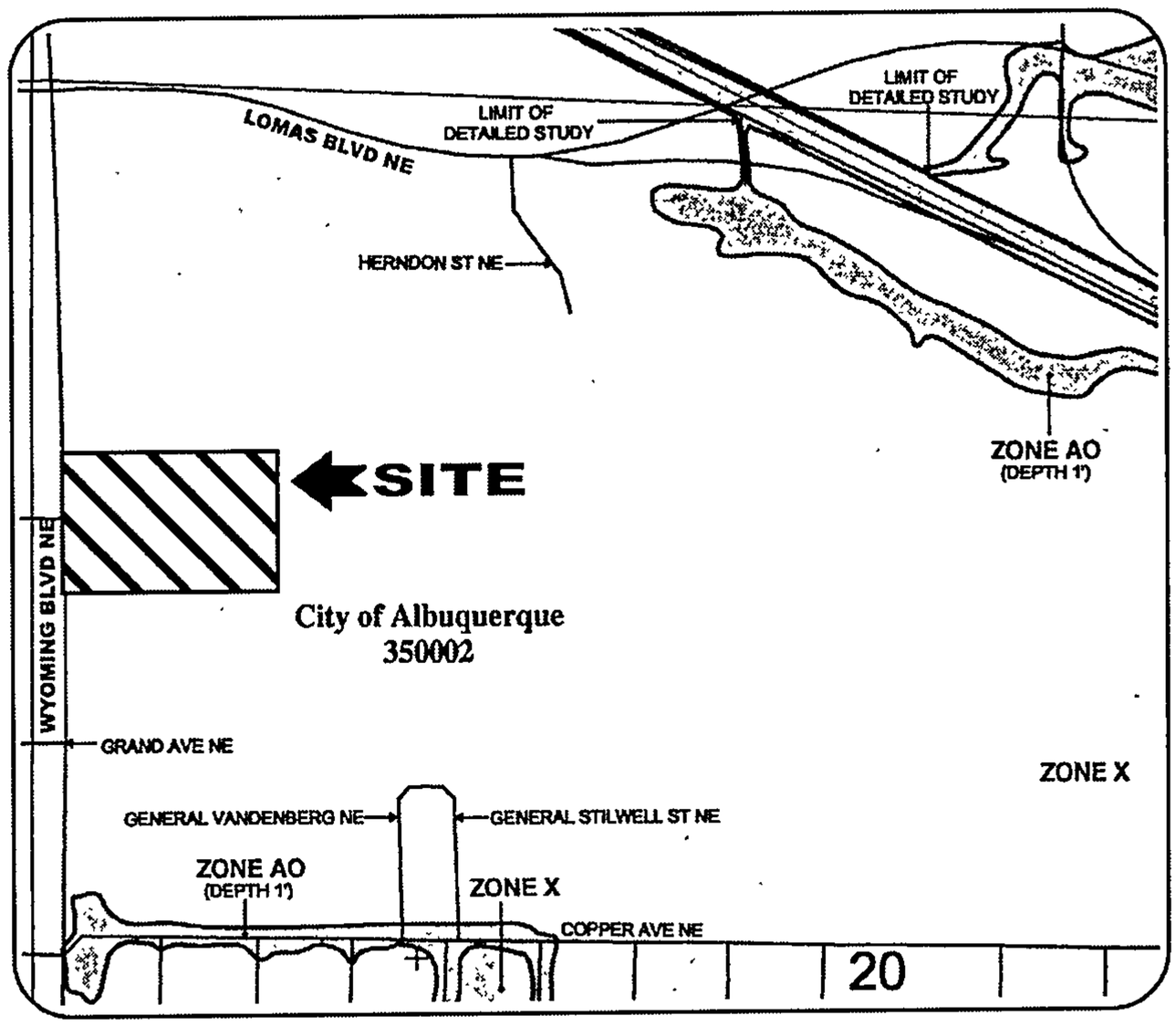
The owners of Drivetime, 700 Wyoming Blvd., NE, propose onsite building modifications consisting of 1.) Approximately 6700 sq. ft of additional shop area, 2.) a canopied structure of approximately 1500 sq.ft. and 3.) approximately 260 LF of enclosure wall. This report is prepared to ensure that the existing stormwater flow characteristics are generally maintained after construction of the improvements.

SITE DESCRIPTION

The site is located on Tract B-1, Municipal Addition No. 2, COA Zone Atlas Map K-20. Total area is approximately 3.28 Acres. The site is located in a designated Flood Hazard Zone X per FEMA – Firm Map 35001C0358 F, revised November 19, 2003. The site is presently totally impervious consisting of asphalt pavement and the existing structures. There is a 26' wide public easement along the westerly property line for a storm drain and a 20' wide private easement in the northerly portion of the parcel to convey drainage from the adjacent Tract B-2.



Vicinity Map (K-20)



FEMA FIRM 35001C8358F

DESIGN-CRITERIA

The drainage plan presented in this report has been prepared in accordance with the City of Albuquerque Drainage Ordinances and Chapter 22 of the Development Process Manual DPM.

The hydrological analysis is based on the 100-year frequency, 6-hour duration storm, as represented in Section 22, Part A, Hydrology, of the Development Process Manual. Rainfall intensities per this report are as follows:

Zone	P60	P360	P1440
3 1	1.87	2.20	2.66

LAND TREATMEMNT

Residential DPM-Eqn a-4, pg 22-n

Treatment Type	A	B	C	D
	0 %	0 %	0 %	100 %

EXISTING DRAINAGE CONDITIONS

The existing parking lot pavement is slightly swaled to provide surface drainage from the southerly ¾ of the site to an existing drop inlet in Wyoming Blvd., north of the entrance. The northerly ¼ of the site drains into an existing catch basin within the

aforementioned easement. The site, as mentioned, is already developed and the proposed work will have no impact on the amount of impervious surface area. The only off-site flow entering the site is from the adjacent tract to the east the flow enters at the northeast corner of the site and discharges into an onsite catch basin. The proposed construction will have no impact on this area.

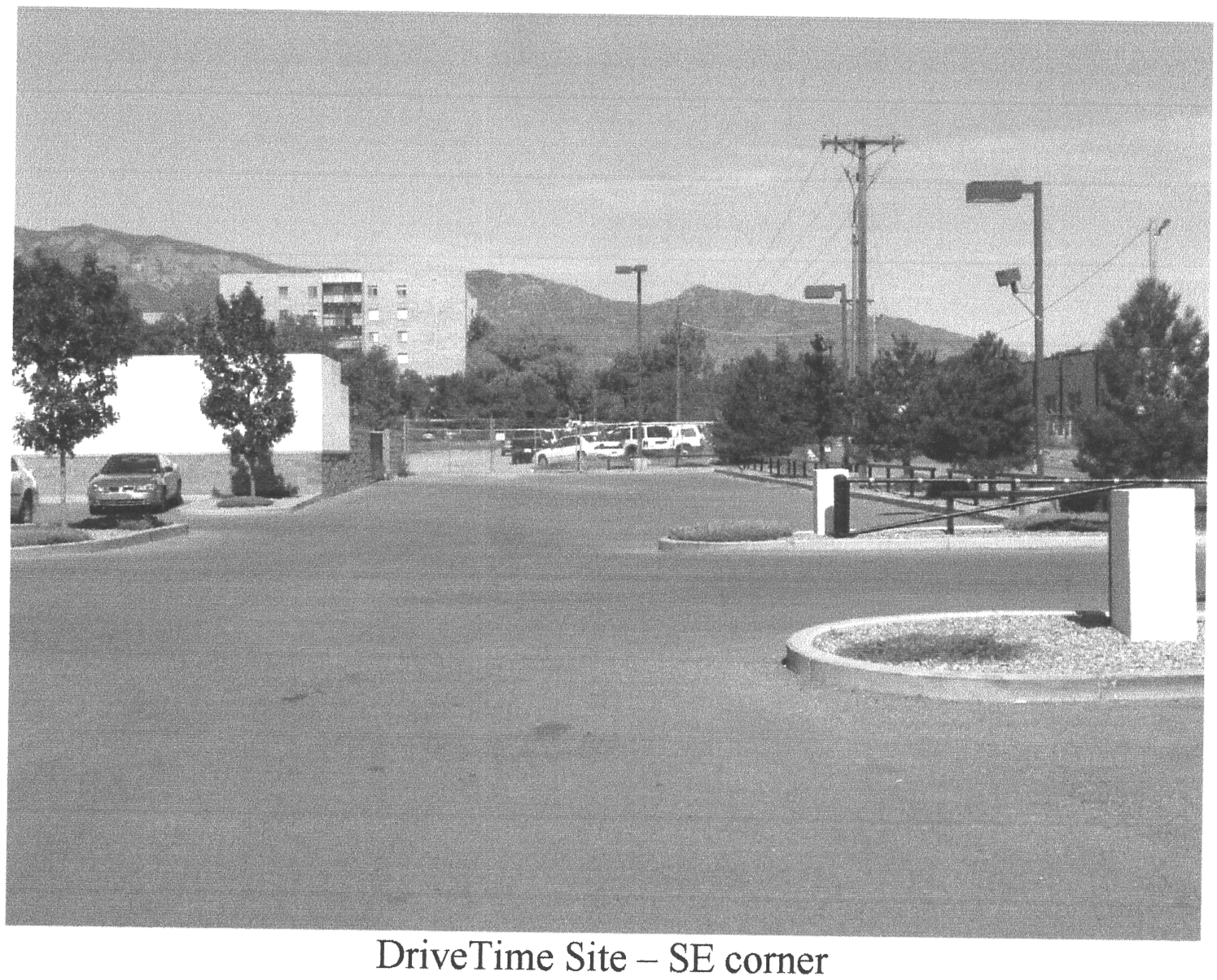
PROPOSED DRAINAGE CONSIDERATIONS

It is the intent that there be no alteration of the existing drainage characteristics. An area of the existing parking lot in front of the proposed building addition will need to be regraded to accommodate the flow pattern. Building floor elevations will be adequately above paved surface elevations. Roof drains will discharge into existing flow paths. The proposed enclosure wall be require weep holes to discharge surface flows from the affected area behind the wall.

CONCLUSION

No adverse impact will result due to the proposed construction. Flows and runoff will remain essentially identical to current conditions.

SITE PHOTOGRAPHS



DriveTime Site – SE corner

DriveTime Site – SE corner

DriveTime Site – area of proposed building extension

DriveTime Site – looking west along Wyoming entranceway

DriveTime Site – looking east from Wyoming Entranceway

DriveTime Site – existing storm line drop inlet in Wyoming Blvd.

AHYMO CALCULATIONS

```
      AHYMO PROGRAM (AHYMO_97) -                          - Version:
1997.02c
            RUN DATE (MON/DAY/YR) = 09/01/2005
            START TIME (HR:MIN:SEC) = 13:28:50     USER NO.= AHYMO-I-AH
            INPUT FILE = C:\DOCUME~1\jgrillo\Desktop\AHYMOC~1\N726-0~1.DAT

*                     ************************************
*                     *DRIVETIME
*                     *100 YEAR ULTIMATE CONDITIONS
*                     ************************************
START                 TIME=0.0 HR PUNCH CODE=0 PRINT LINES=-6
RAINFALL              TYPE=1 RAIN QUARTER=0.0
                      RAIN ONE=1.87 IN RAIN SIX=2.20 IN
                      RAIN DAY=2.66 IN DT=0.0333 HRS

                   COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS
2 - PEAK AT 1.40 HR.
                   DT =     .033300 HOURS       END TIME =     5.994000 HOURS
                      .0000   .0016   .0033   .0050   .0067   .0085   .0103
                      .0121   .0140   .0160   .0180   .0200   .0221   .0243
                      .0265   .0288   .0312   .0336   .0361   .0387   .0414
                      .0442   .0471   .0501   .0533   .0566   .0600   .0636
                      .0674   .0714   .0757   .0808   .0863   .0922   .1044
                      .1323   .1754   .2374   .3221   .4335   .5756   .7527
                      .9690  1.1767  1.2619  1.3336  1.3972  1.4551  1.5084
                     1.5579  1.6041  1.6474  1.6881  1.7266  1.7629  1.7973
                     1.8298  1.8607  1.8900  1.9178  1.9442  1.9515  1.9573
                     1.9627  1.9680  1.9729  1.9777  1.9823  1.9867  1.9909
                     1.9950  1.9990  2.0029  2.0066  2.0102  2.0137  2.0172
                     2.0205  2.0238  2.0269  2.0300  2.0331  2.0360  2.0389
                     2.0418  2.0446  2.0473  2.0500  2.0526  2.0552  2.0578
                     2.0603  2.0627  2.0651  2.0675  2.0698  2.0721  2.0744
                     2.0766  2.0788  2.0810  2.0832  2.0853  2.0873  2.0894
                     2.0914  2.0934  2.0954  2.0974  2.0993  2.1012  2.1031
                     2.1050  2.1068  2.1086  2.1104  2.1122  2.1140  2.1157
                     2.1174  2.1191  2.1208  2.1225  2.1242  2.1258  2.1274
                     2.1290  2.1306  2.1322  2.1338  2.1353  2.1369  2.1384
                     2.1399  2.1414  2.1429  2.1444  2.1459  2.1473  2.1487
                     2.1502  2.1516  2.1530  2.1544  2.1558  2.1571  2.1585
                     2.1599  2.1612  2.1625  2.1639  2.1652  2.1665  2.1678
                     2.1691  2.1703  2.1716  2.1729  2.1741  2.1754  2.1766
                     2.1778  2.1791  2.1803  2.1815  2.1827  2.1839  2.1850
                     2.1862  2.1874  2.1886  2.1897  2.1909  2.1920  2.1931
```

```
*                          ************************************
COMPUTE NM HYD             ID=1 HYD NO=DA1 DA=0.00512802 SQ MI
                           PER A=0.0 PER B=0.0 PER C=0.0 PER D=100.0
                           TP=-0.1333 HR MASS RAIN=-1

          K =    .072649HR     TP =    .133300HR     K/TP RATIO =    .545000
SHAPE CONSTANT, N =  7.106420
          UNIT PEAK =    20.246     CFS    UNIT VOLUME =     .9988        B
=    526.28       P60 = 1.8700
          AREA =        .005128 SQ MI     IA =     .10000 INCHES     INF =
.04000 INCHES PER HOUR
            RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER
METHOD - DT =    .033300

     *                     ***********
     PRINT HYD             ID=1 CODE=1

                                                  HYDROGRAPH FROM AREA DA1

          RUNOFF VOLUME =      1.96545 INCHES      =          .5375 ACRE-
FEET
          PEAK DISCHARGE RATE =       14.35 CFS  AT    1.499 HOURS    BASIN
AREA =    .0051 SQ. MI.


     *
     FINISH
```

```
AHYMO PROGRAM (AHYMO_97) - Version:  1997.02c
            RUN DATE (MON/DAY/YR) = 09/01/2005
START TIME (HR:MIN:SEC) = 13:28:50     USER NO.= AHYMO-I-AH
INPUT FILE = C:\DOCUME~1\jgrillo\Desktop\AHYMOC~1\N726-0~1.DAT

 *                  *********************************
           *                   *DRIVETIME
   *                   *100 YEAR ULTIMATE CONDITIONS
 *                  *********************************
START              TIME=0.0 HR PUNCH CODE=0 PRINT LINES=-6
     RAINFALL                 TYPE=1 RAIN QUARTER=0.0
                        RAIN ONE=1.87 IN RAIN SIX=2.20 IN
                          RAIN DAY=2.66 IN DT=0.0333 HRS

    COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS
             2 - PEAK AT 1.40 HR.
    DT =      .033300 HOURS          END TIME =      5.994000 HOURS
         .0000    .0016    .0033    .0050    .0067    .0085    .0103
         .0121    .0140    .0160    .0180    .0200    .0221    .0243
         .0265    .0288    .0312    .0336    .0361    .0387    .0414
         .0442    .0471    .0501    .0533    .0566    .0600    .0636
         .0674    .0714    .0757    .0808    .0863    .0922    .1044
         .1323    .1754    .2374    .3221    .4335    .5756    .7527
         .9690   1.1767   1.2619   1.3336   1.3972   1.4551   1.5084
        1.5579   1.6041   1.6474   1.6881   1.7266   1.7629   1.7973
        1.8298   1.8607   1.8900   1.9178   1.9442   1.9515   1.9573
        1.9627   1.9680   1.9729   1.9777   1.9823   1.9867   1.9909
        1.9950   1.9990   2.0029   2.0066   2.0102   2.0137   2.0172
        2.0205   2.0238   2.0269   2.0300   2.0331   2.0360   2.0389
        2.0418   2.0446   2.0473   2.0500   2.0526   2.0552   2.0578
        2.0603   2.0627   2.0651   2.0675   2.0698   2.0721   2.0744
        2.0766   2.0788   2.0810   2.0832   2.0853   2.0873   2.0894
        2.0914   2.0934   2.0954   2.0974   2.0993   2.1012   2.1031
        2.1050   2.1068   2.1086   2.1104   2.1122   2.1140   2.1157
        2.1174   2.1191   2.1208   2.1225   2.1242   2.1258   2.1274
        2.1290   2.1306   2.1322   2.1338   2.1353   2.1369   2.1384
        2.1399   2.1414   2.1429   2.1444   2.1459   2.1473   2.1487
        2.1502   2.1516   2.1530   2.1544   2.1558   2.1571   2.1585
        2.1599   2.1612   2.1625   2.1639   2.1652   2.1665   2.1678
        2.1691   2.1703   2.1716   2.1729   2.1741   2.1754   2.1766
        2.1778   2.1791   2.1803   2.1815   2.1827   2.1839   2.1850
        2.1862   2.1874   2.1886   2.1897   2.1909   2.1920   2.1931
            2.1943   2.1954   2.1965   2.1976   2.1987   2.1998
```

DriveTime Post-Development (Con't)

```
*                          ************************************
COMPUTE NM HYD             ID=1 HYD NO=DA1 DA=0.00512802 SQ MI
                           PER A=0.0 PER B=0.0 PER C=0.0 PER D=100.0
                           TP=-0.1333 HR MASS RAIN=-1

          K =    .072649HR     TP =    .133300HR     K/TP RATIO =    .545000
SHAPE CONSTANT, N =  7.106420
          UNIT PEAK =    20.246     CFS    UNIT VOLUME =     .9988        B
=    526.28       P60 = 1.8700
          AREA =       .005128 SQ MI     IA =     .10000 INCHES     INF =
.04000 INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER
METHOD - DT =    .033300

     *                     ***********
     PRINT HYD             ID=1 CODE=1

                                                  HYDROGRAPH FROM AREA DA1


          RUNOFF VOLUME =      1.96545 INCHES      =          .5375 ACRE-
FEET
          PEAK DISCHARGE RATE =       14.35 CFS   AT    1.499 HOURS    BASIN
AREA =    .0051 SQ. MI.

     *
     FINISH
```

1641

GRADING AND DRAINAGE PLAN