



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

November 2, 1992

Mark Goodwin
D. Mark Goodwin & Associates
P.O. Box 90606
Albuquerque, NM 87199

RE: RE: DRAINAGE PLAN FOR PRESBYTERIAN RADIATION THERAPY (J19-D57)
ENGINEER'S STAMP DATED 10/26/92.

Dear Mr. Goodwin:

Based on the information provided on your October 26, 1992 submittal, the above referenced drainage plan is approved for Building Permit.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Also, please be advised that any roof run-off entering a landscaped area will need to be provided with a curb cut to access water onto the paved area.

If I can be of further assistance, please feel free to call me at 768-2667.

Sincerely,

Bernie J. Montoya
Bernie J. Montoya, CE
Engineering Assistant

BJM/d1/WPHYD/3746

xc: Alan Martinez
File

PUBLIC WORKS DEPARTMENT

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Presbyterian Radiation Therapy ZONE ATLAS/DRNG, FILE#: J-19 / 057

LEGAL DESCRIPTION: Tract C of the East End Addition

CITY ADDRESS: 8020 Constitution Place NE

ENGINEERING FIRM: D. Mark Goodwin & Assoc., PA CONTACT: John M. MacKenzie, PE
ADDRESS: P.O. Box 90606 Albuquerque, NM 87199 PHONE: 828-2200

OWNER: Presbyterian Healthcare Services CONTACT: Richard Vigliano
ADDRESS: 4775 Indian School NE PHONE: 260-6330

ARCHITECT: Steven, Mallory, Pearl & Campbell CONTACT: David Hassard
ADDRESS: 115 Amherst NE PHONE: 255-8668

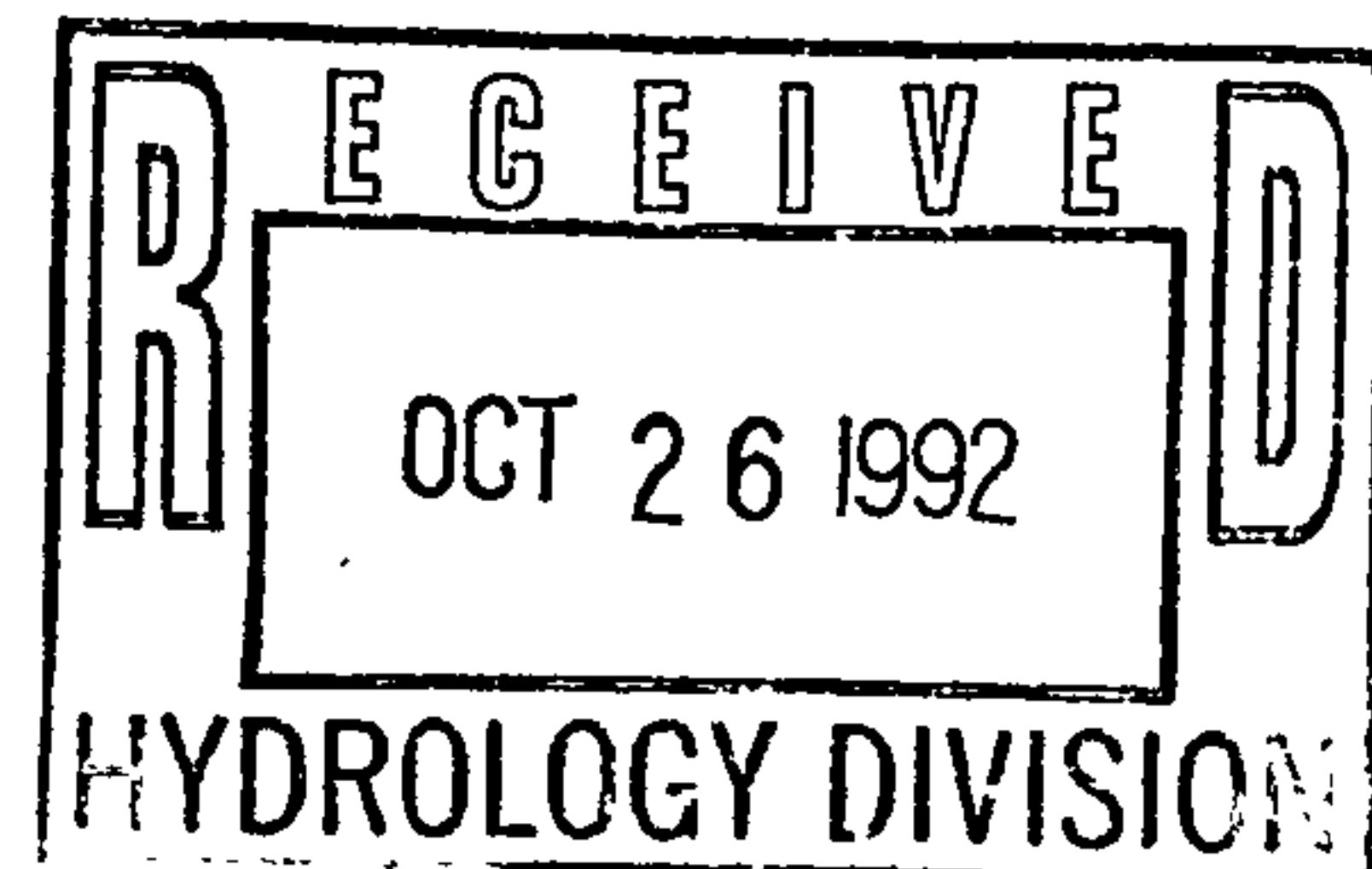
SURVEYOR: D. Mark Goodwin & Assoc, PA CONTACT: Richard Borgel
ADDRESS: P.O. Box 90606 PHONE: 828-2200

CONTRACTOR: N/A CONTACT: _____
ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING

☐ YES
☒ NO
☐ COPY OF CONFERENCE RECAP
SHEET PROVIDED

DRB NO. _____
EPC NO. _____
PROJ NO. _____



TYPE OF SUBMITTAL

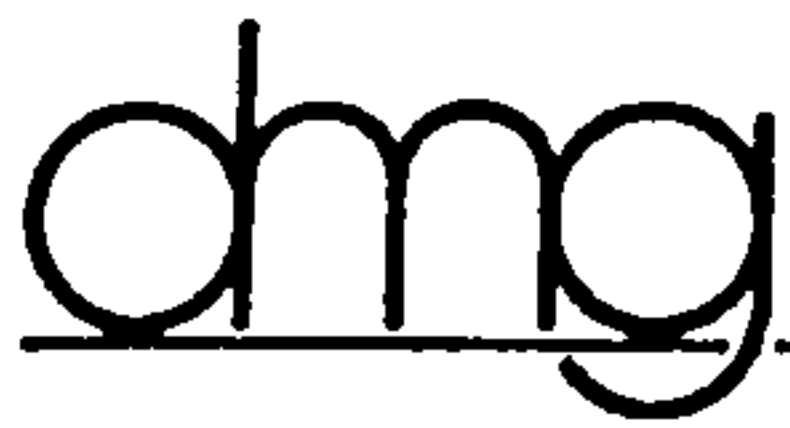
☐ DRAINAGE REPORT
☒ DRAINAGE PLAN
☐ CONCEPTUAL GRADING &
DRAINAGE PLAN
☒ GRADING PLAN
☐ EROSION PLAN
☐ ENGINEER'S CERTIFICATION

TYPE OF APPROVAL SOUGHT

☐ SKETCH PLAT APPROVAL
☒ PRELIMINARY PLAT APPROVAL
☐ SITE DEVELOPMENT PLAN APPROVAL
☒ FINAL PLAT APPROVAL
☒ BUILDING PERMIT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☐ CERTIFICATION OF OCCUPANCY APPROVAL
☐ ROUGH GRADING PERMIT APPROVAL
☐ GRADING / PAVING PERMIT APPROVAL
☐ OTHER _____

DATE SUBMITTED: October 26, 1992

BY: John M. MacKenzie
John M. MacKenzie, PE

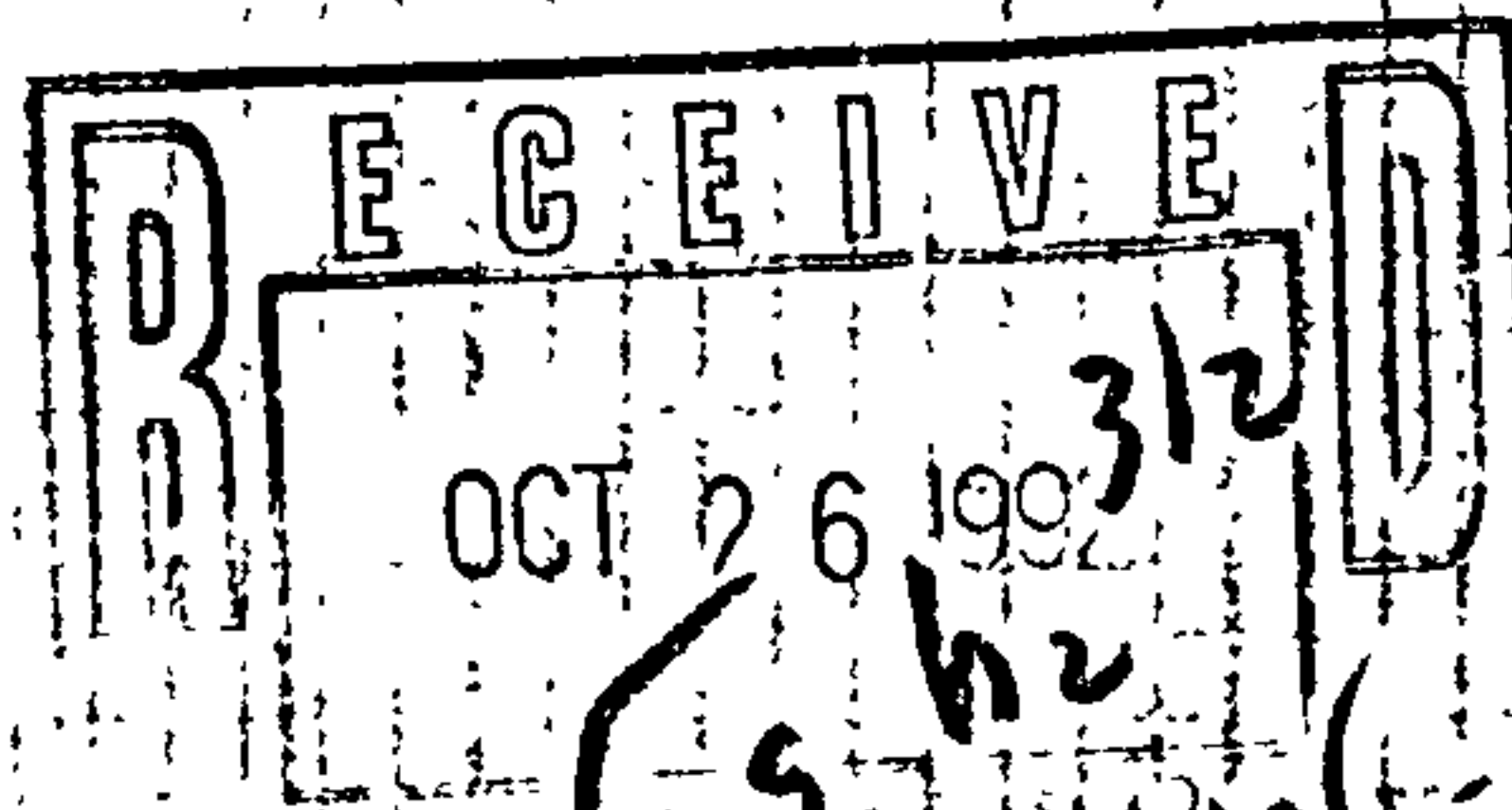


D. Mark Goodwin & Associates, P.A.
Consulting Engineers and Surveyors

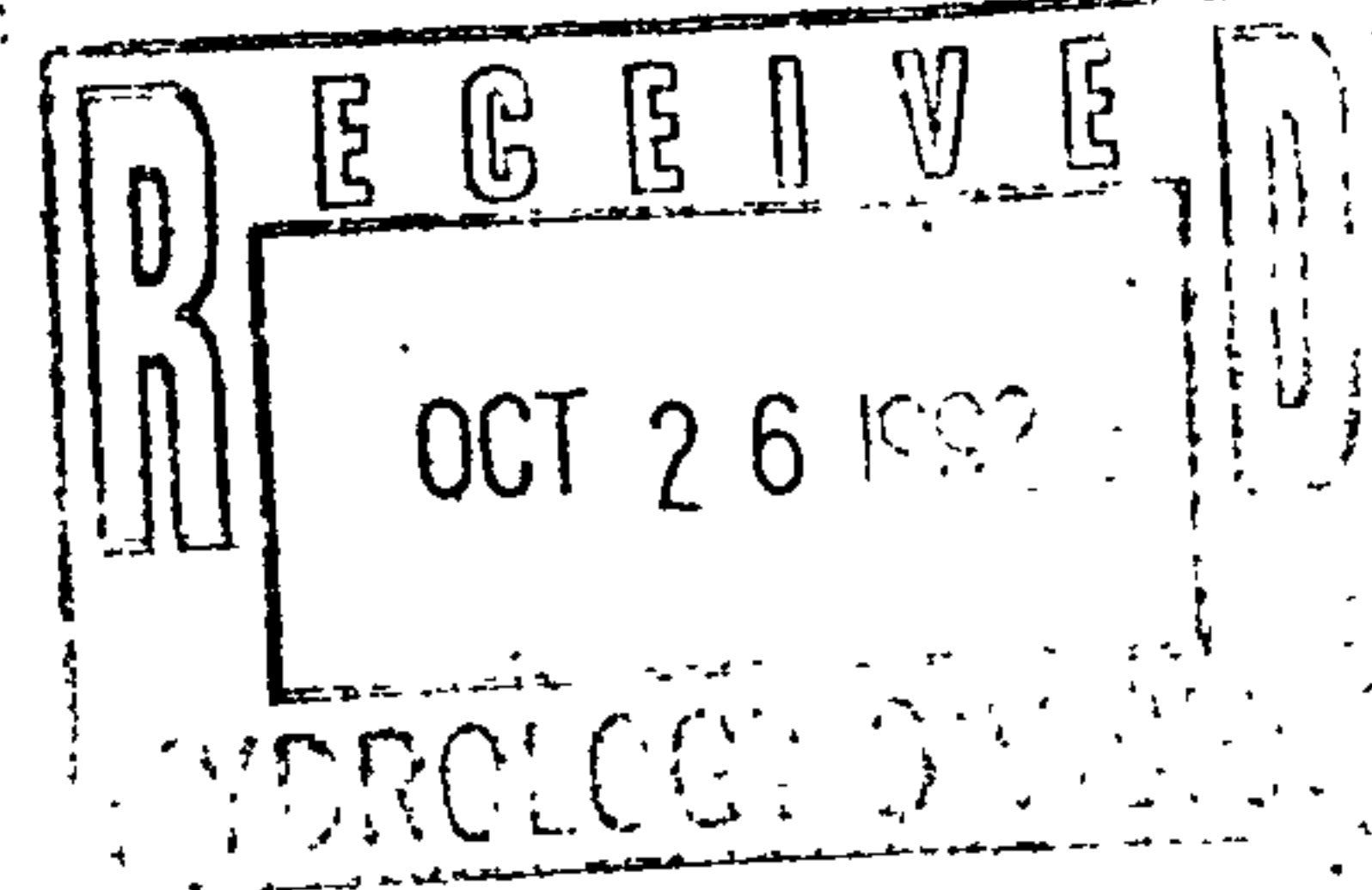
JOB Presbyterian Radiation Therapy
SUBJECT Drainage
JOB NO. 92-69 SHEET 1 OF 4
BY JM/ML DATE 10/26/92
CHECKED _____ DATE _____

This plan involves the expansion of an existing lot to accommodate an addition to Presbyterian's Radiation Therapy Facility. The existing lot line will be moved approximately 63 feet to the southeast to which the new parking lot will extend.

The area involving this expansion will drain toward the south and west - into the existing concrete swale. The capacity of this swale will allow free discharge based upon an evaluation by Jake Bordenave, approved 9/27/84. Refer to File No. J 19/D22A



Q = $2/3 \sqrt{29}$ (2) (2) (32.8) (10.69 X .3535) 3.28 c/sec



EXISTING CONDITION

AHYMO PROGRAM (AHYMO392) - AMAFCA VERSION OF HYMO - MARCH, 1992
 RUN DATE (MON/DAY/YR) = 10/23/1992
 START TIME (HR:MIN:SEC) = 10:37:07 USER NO. = Z_GOODWN.S92
 INPUT FILE = PRESBYT.RAD

***** WATERSHED HYDROGRAPH FOR THE PRESBYTERIAN RADIATION THERAPY-EXISTING

***** OCTOBER 1992

RAINFALL

TYPE=1 RAIN QUARTER=0.0 IN

RAIN ONE=2.06 IN RAIN SIX=2.49 IN

RAIN DAY=3.98 IN DT=0.0333 HR

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2

- PEAK AT 1.40 HR.

DT = .033300 HOURS			END TIME = 5.994000 HOURS			
.0000	.0025	.0050	.0075	.0103	.0130	.0157
.0186	.0215	.0244	.0275	.0306	.0338	.0371
.0405	.0439	.0475	.0512	.0550	.0590	.0631
.0673	.0717	.0763	.0810	.0860	.0912	.0966
.1024	.1084	.1148	.1205	.1265	.1330	.1465
.1772	.2247	.2929	.3863	.5090	.6656	.8607
1.0990	1.3277	1.4216	1.5005	1.5707	1.6344	1.6931
1.7476	1.7985	1.8462	1.8911	1.9335	1.9735	2.0114
2.0472	2.0812	2.1135	2.1442	2.1733	2.1816	2.1884
2.1948	2.2010	2.2069	2.2125	2.2180	2.2232	2.2283
2.2332	2.2380	2.2426	2.2471	2.2515	2.2557	2.2599
2.2639	2.2679	2.2718	2.2755	2.2792	2.2829	2.2864
2.2899	2.2933	2.2967	2.3000	2.3032	2.3064	2.3095
2.3126	2.3157	2.3187	2.3216	2.3245	2.3274	2.3302
2.3329	2.3357	2.3384	2.3411	2.3437	2.3463	2.3489
2.3514	2.3539	2.3564	2.3588	2.3613	2.3637	2.3660
2.3684	2.3707	2.3730	2.3752	2.3775	2.3797	2.3819

2.3988	2.4008	2.4029	2.4048	2.4068	2.4088	2.4107
2.4127	2.4146	2.4165	2.4183	2.4202	2.4221	2.4239
2.4257	2.4275	2.4293	2.4311	2.4329	2.4347	2.4364
2.4382	2.4399	2.4416	2.4433	2.4450	2.4467	2.4483
2.4500	2.4516	2.4533	2.4549	2.4565	2.4581	2.4597
2.4613	2.4629	2.4644	2.4660	2.4675	2.4691	2.4706
2.4721	2.4736	2.4751	2.4766	2.4781	2.4796	2.4811
2.4825	2.4840	2.4854	2.4869	2.4883	2.4897	

COMPUTE NM HYD

ID=1 HYD NO=101.1 AREA=0.000321 SQ MI

p 3 of 4

PER A=60.0 PER B=0.0 PER C=40.0 PER D=0.0

TP=0.1333 HR MASS RAINFALL=-1

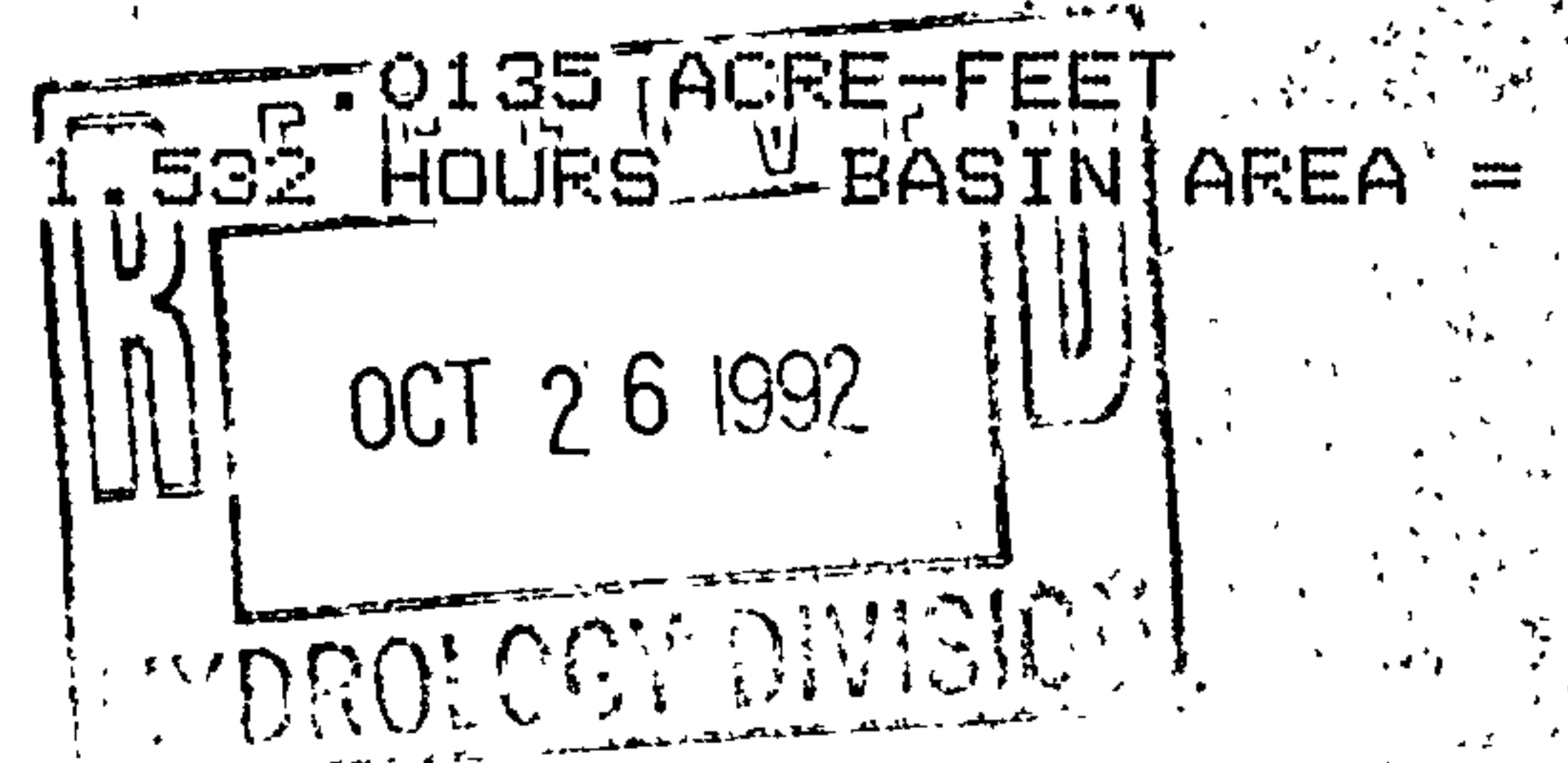
K = .138540HR TP = .133300HR K/TP RATIO = 1.039312 SHAPE
 CONSTANT, N = 3.396646
 UNIT PEAK = .75303 CFS UNIT VOLUME = .9816 B = 312.71
 P60 = 2.0600
 AREA = .000321 SQ MI IA = .53000 INCHES INF = 1.33400 I
 NCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT
 = .033300

PRINT HYD

ID=1 CODE=1

PARTIAL HYDROGRAPH 101.10

RUNOFF VOLUME = .78957 INCHES =
 PEAK DISCHARGE RATE = .48 CFS AT
 .0003 SQ. MI.



FINISH

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 10:37:07

DEVELOPED CONDITION

AHYMO PROGRAM (AHYMO392) - AMAFCA VERSION OF HYMO - MARCH, 1992

RUN DATE (MON/DAY/YR) = 10/23/1992

START TIME (HR:MIN:SEC) = 10:46:30

USER NO. = Z_GOODWN.S92

INPUT FILE = PRESBYT.RAD

*****WATERSHED HYDROGRAPH FOR THE PRESBYTERIAN RADIATION THERAPY-DEVELOPED

*****OCTOBER 1992

RAINFALL

TYPE=1 RAIN QUARTER=0.0 IN

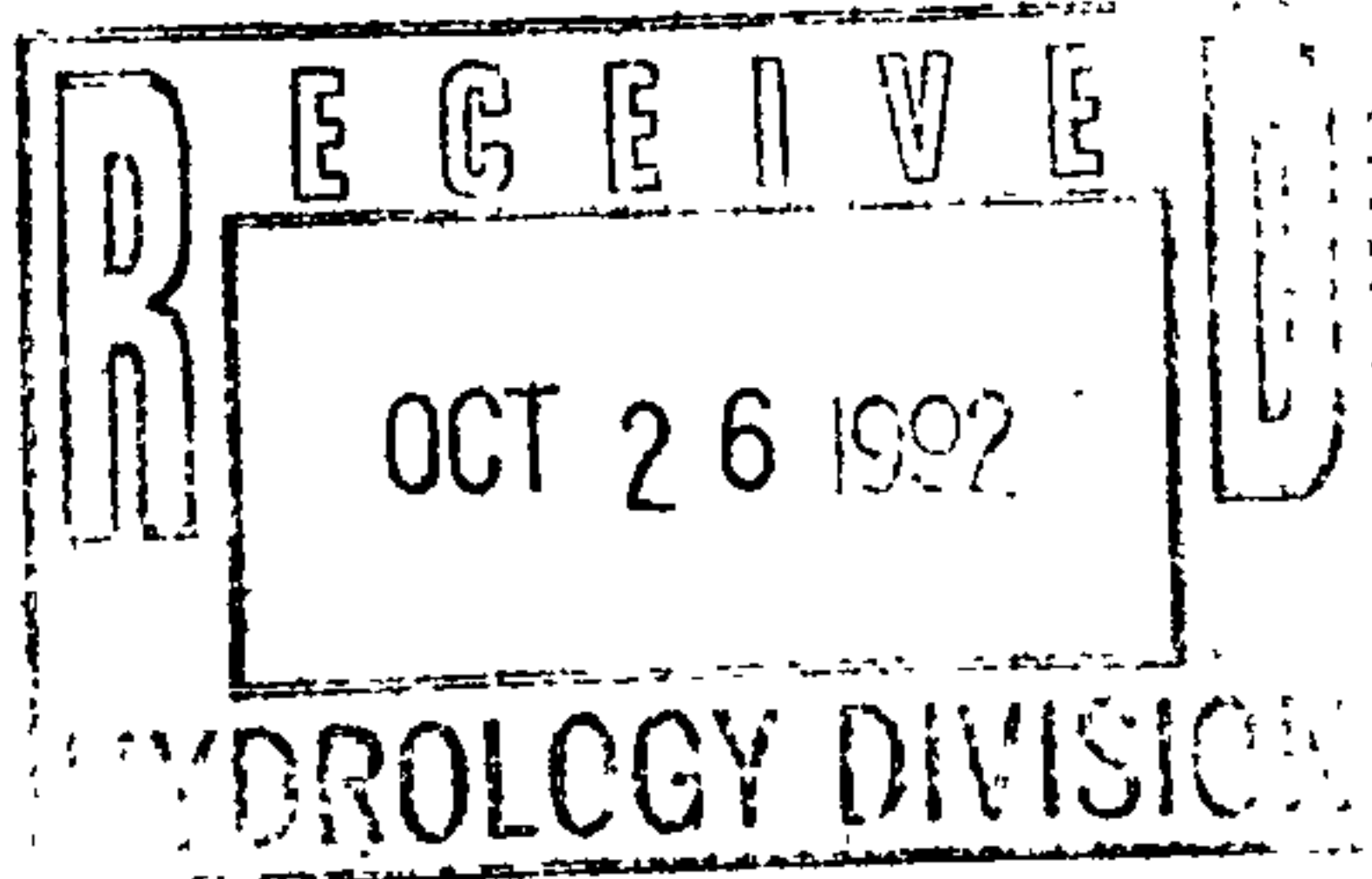
RAIN ONE=2.06 IN RAIN SIX=2.49 IN

RAIN DAY=3.98 IN DT=0.0333 HR

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2

- PEAK AT 1.40 HR.

DT =	.033300	HOURS	END TIME =	5.994000	HOURS
.0000	.0025	.0050	.0076	.0103	.0130
.0157	.0186	.0215	.0244	.0275	.0306
.0338	.0371	.0405	.0439	.0475	.0512
.0550	.0590	.0631			



.0673	.0717	.0763	.0810	.0850	.0912	.0960
.1024	.1084	.1148	.1205	.1265	.1330	.1465
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2.4721	2.4736	2.4751	2.4766	2.4781	2.4796	2.4811
2.4825	2.4840	2.4854	2.4869	2.4883	2.4897	

COMPUTE NM HYD

ID=1 HYD NO=101.1 AREA=0.000321 SQ MI

p 4 of 4

PER A=0.0 PER B=0.0 PER C=10.0 PER D=90.0

TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE
CONSTANT, N = 7.106420
UNIT PEAK = 1.1406 CFS UNIT VOLUME = .9896 B = 526.28
P60 = 2.0600
AREA = .000289 SQ MI IA = .10000 INCHES INF = .04000 I
NCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT
= .033300

K = .108010HR TP = .133300HR K/TP RATIO = .810277 SHAPE
CONSTANT, N = 4.414578
UNIT PEAK = .91971E-01CFS UNIT VOLUME = .8773 B = 381.92
P60 = 2.0600
AREA = .000032 SQ MI IA = .35000 INCHES INF = .83000 I
NCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT
= .033300

PRINT HYD

ID=1 CODE=1

PARTIAL HYDROGRAPH 101.10

RUNOFF VOLUME = 2.14301 INCHES = .0367 ACRE-Feet
PEAK DISCHARGE RATE = .98 CFS AT 1.499 HOURS BASIN AREA =
.0003 SQ. MI.

FINISH

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 10:46:30