

BOARD OF COUNTY COMMISSIONERS

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JUAN R. VIGIL, COUNTY MANAGER

# County of Bernalillo

State of New Mexico

ONE CIVIC PLAZA, N.W.  
ALBUQUERQUE, NEW MEXICO 87102  
ADMINISTRATION (505) 768-4000  
COMMISSION (505) 768-4217  
FAX (505) 768-4329

RAY GALLAGHER, SHERIFF

PATRICK J. PADILLA, TREASURER

GLADYS M. DAVIS, CLERK

MARK J. CARRILLO, ASSESSOR

THOMAS J. MESCALL, PROBATE JUDGE

February 23, 1993

Mike Beyer, P.E.  
The B.E.A.R. Company  
1311 Apex Court  
Rio Rancho, NM 87124

RE: DRAINAGE PLAN FOR LOT 24, BLOCK 15, TRACT 2, UNIT 1, N.A.A.,  
(C-22/D33), ENGINEER'S STAMP DATED JANUARY 18, 1993

Dear Mr. Beyer:

Based on the information provided on the referenced submittal received February 16, 1993, the plan is acceptable for Building Permit release.

Please be advised that prior to final inspection by County Building Department, an Engineer's Certification must be submitted and approved by this office.

On future submittals, use the zone atlas for the vicinity map, also you need to check the appropriate review request on your information sheet.

If you should have any questions, please do not hesitate to contact me at 768-2650.

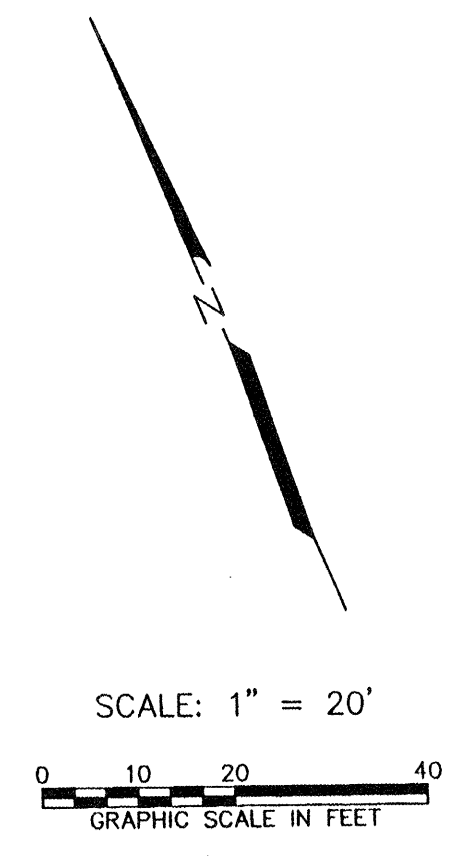
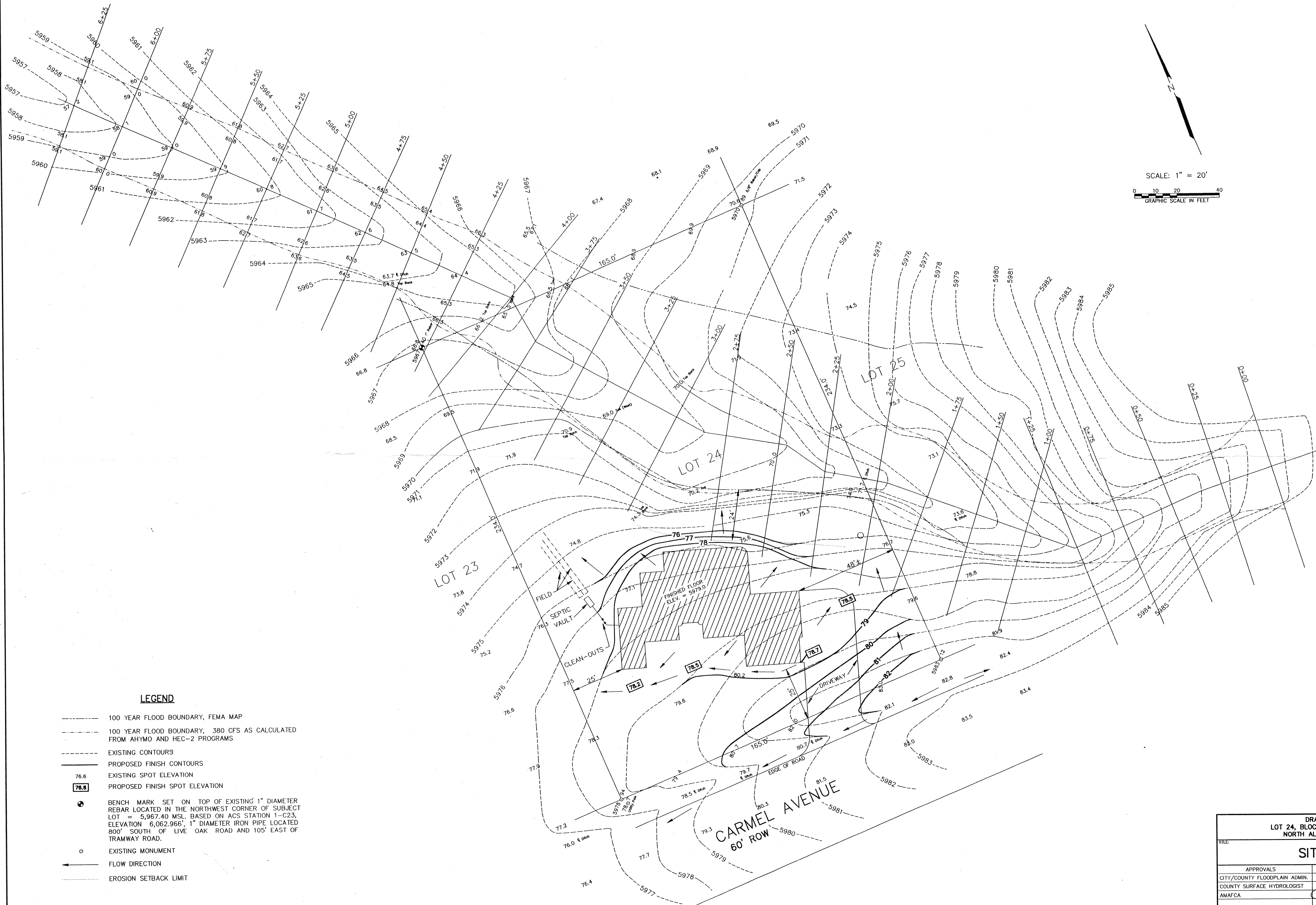
Cordially,

Gilbert Aldaz, P.E. & P.S.  
City/County Floodplain Administrator

xc: Clifford E. Anderson, AMAFCA  
Bob Foglesong, County PWD  
Tom Burlison, County Building Dept.  
John Mechembier, Mechembier Construction

*File*

wp+3802



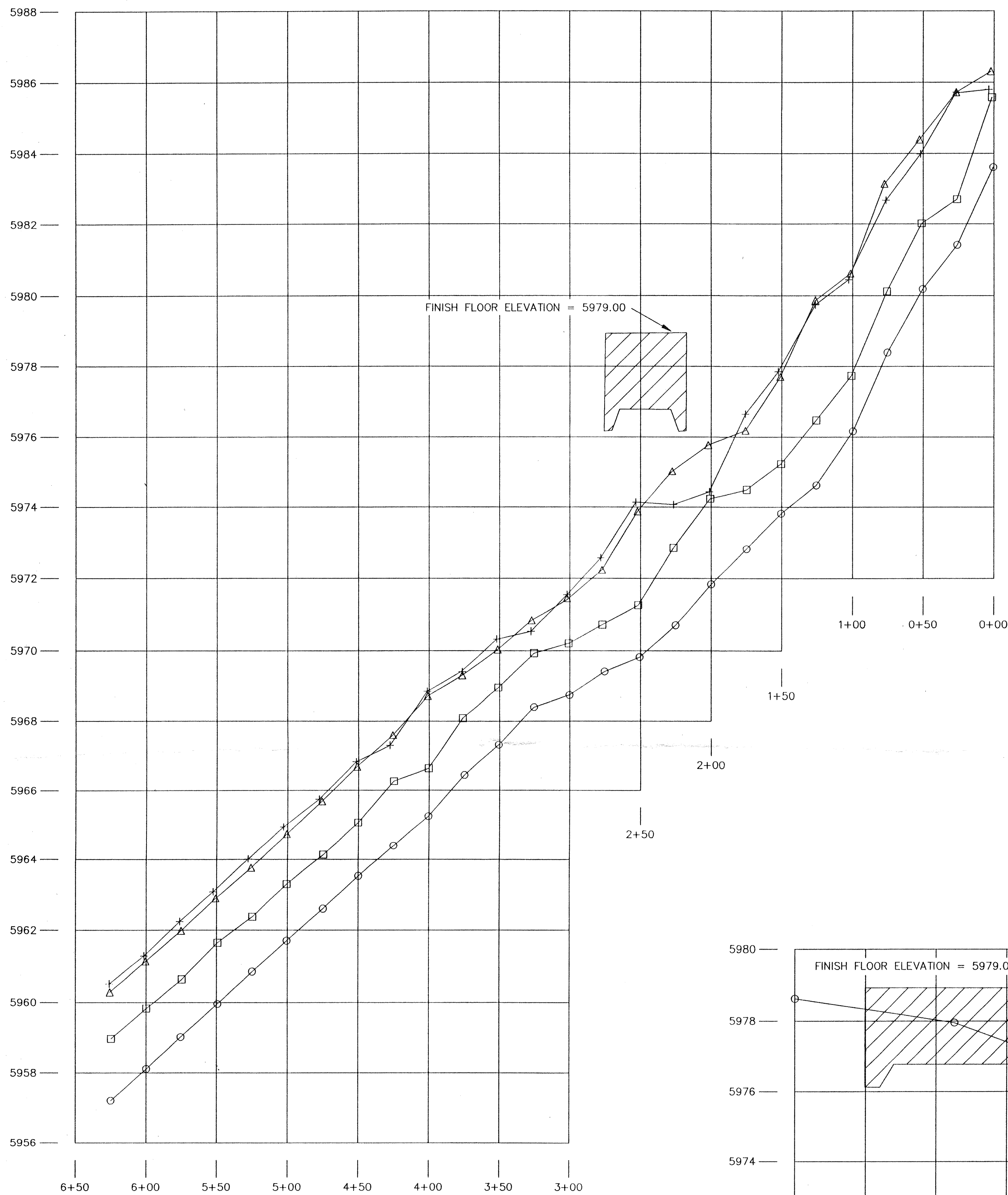
**LEGEND**

- 100 YEAR FLOOD BOUNDARY, FEMA MAP
- 100 YEAR FLOOD BOUNDARY, 380 CFS AS CALCULATED FROM AHYMO AND HEC-2 PROGRAMS
- EXISTING CONTOURS
- PROPOSED FINISH CONTOURS
- EXISTING SPOT ELEVATION
- PROPOSED FINISH SPOT ELEVATION
- BENCH MARK SET ON TOP OF EXISTING 1" DIAMETER REBAR LOCATED IN THE NORTHWEST CORNER OF SUBJECT LOT = 5,967.40 MSL. BASED ON ACS STATION 1-C23. ELEVATION 6,062.966'. 1" DIAMETER IRON PIPE LOCATED 800' SOUTH OF LIVE OAK ROAD AND 105' EAST OF TRAMWAY ROAD.
- EXISTING MONUMENT
- FLOW DIRECTION
- EROSION SETBACK LIMIT

THE  
B.E.A.R.  
COMPANY  
ENGINEERING - SURVEYING  
1311 APEX COURT, RIO RANCHO, NM 87124  
505-892-0421

ENGINEER'S SEAL	
18 JANUARY 1993	
NO.	DATE
REVISIONS	BY
DESIGN	DATE: 01 DEC 92
DRAWN BY: MICHAEL E. BEYER	DATE: 02 DEC 92
CHECKED BY: MICHAEL E. BEYER	DATE: 03 DEC 92

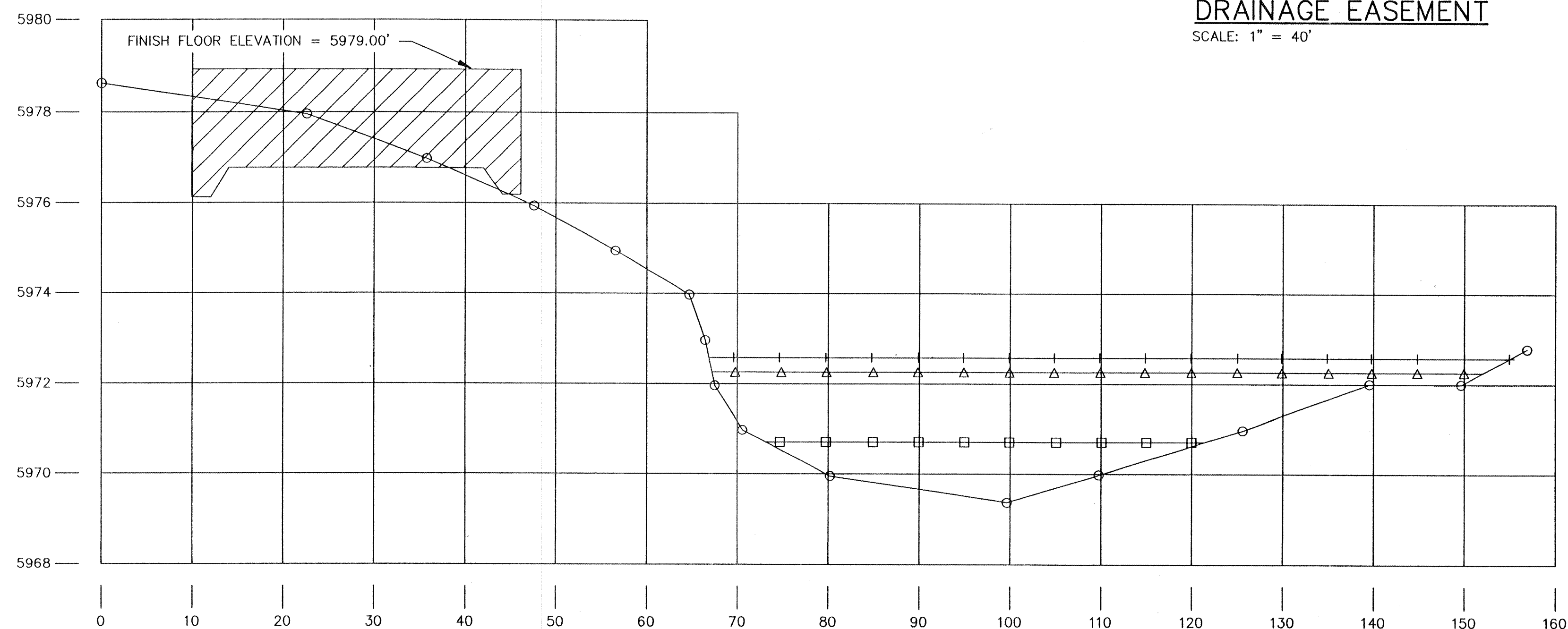
DRAINAGE PLAN LOT 24, BLOCK 15, TRACT 2, UNIT 1 NORTH ALBUQUERQUE ACRES		
TITLE: SITE PLAN		
APPROVALS	ENGINEER	DATE
CITY/COUNTY FLOODPLAIN ADMIN.		1/20/93
COUNTY SURFACE HYDROLOGIST		1/19/93
AMAFCA		
SCALE: 1" = 20'	DATE: 04 DECEMBER 1992	SHEET 2 OF 3



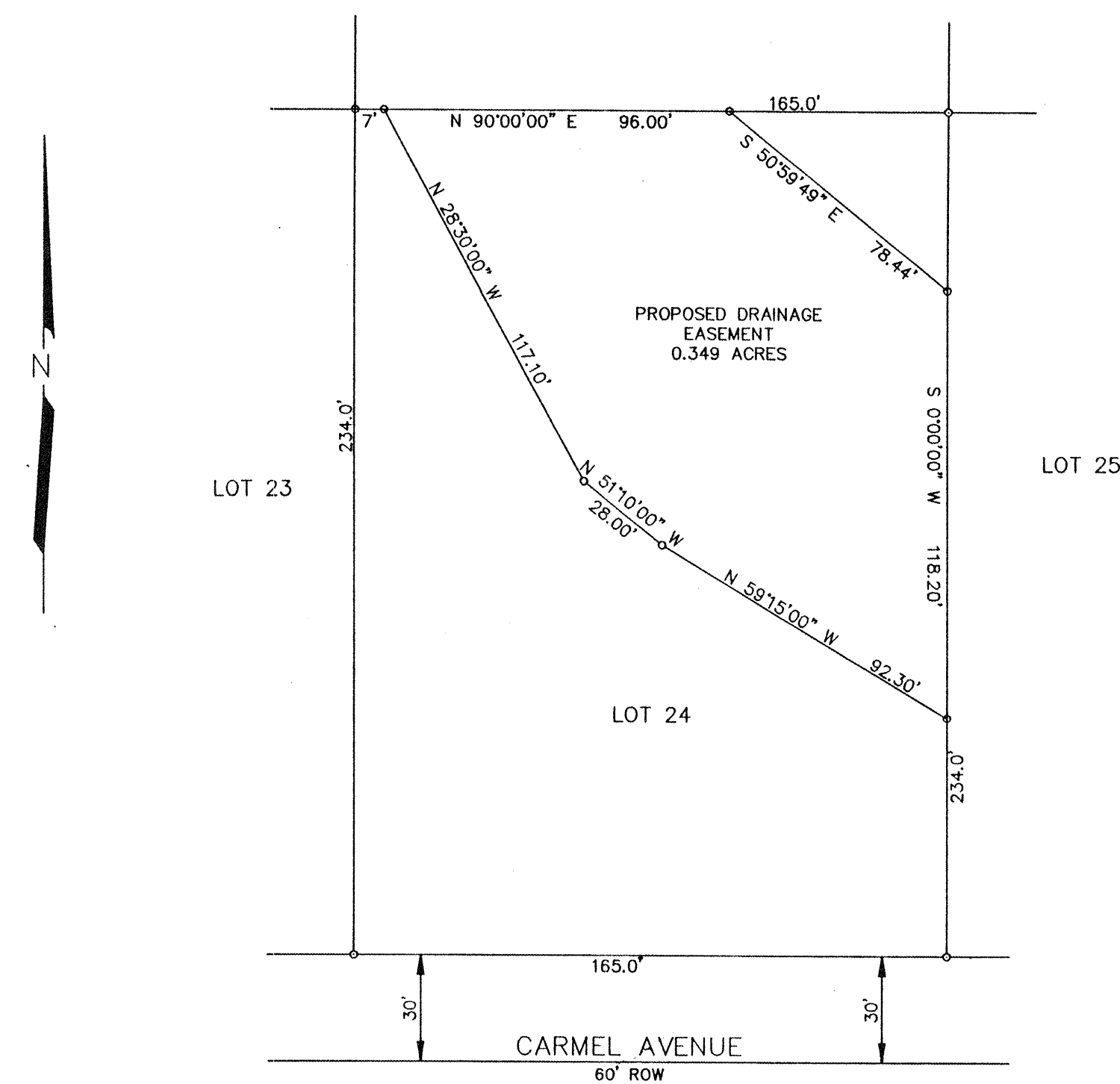
HYDRAULIC ANALYSIS PROFILE  
SCALE: 1" = 50' HORIZ.  
1" = 2' VERT.

LEGEND

- INVERT OF ARROYO (EXISTING GROUND)
- COMPUTED WATER SURFACE ELEVATION
- △—△ ENERGY GRADE LINE
- +— CONJUGATE GRADE LINE



CROSS SECTION AT STATION 2+75  
SCALE: 1" = 10' HORIZ.  
1" = 2' VERT.



LEGAL DESCRIPTION

A certain tract of land to be designated as a Flood Plain Easement being the northerly portion of Lot numbered twenty-four (24) in Block numbered fifteen (15) of Tract 2, Unit 1, NORTH ALBUQUERQUE ACRES, Albuquerque, New Mexico, as the same is shown and designated on the plat thereof, filed in the office of the County Clerk of Bernalillo County, New Mexico, on June 8, 1931, Book D, page 133 and being more particularly described as follows:

Beginning at the Northwest Corner of said tract, being the Northwest corner of said Lot 24; thence, along the North property line of said lot due East, 7.00 feet to a point in the Northwest corner of Flood Plain Easement; thence, along the North boundary of said easement due East, 96.00 feet to a point; thence, S 50°59'49" E, 78.44 feet to a point in the East property line of said lot; thence, along the East property line due South, 118.20 feet to a point in the South boundary of said easement; thence, along the South boundary of said easement N 51°15'00" W, 92.30 feet to a point; thence, N 51°10'00" W, 28.00 feet to a point; thence, continuing along the South boundary of said easement, N 28°30'00" W, 117.10 feet to the point of beginning, containing 0.349 acres more or less.

SURVEYOR'S CERTIFICATE

I, Michael E. Beyer, licensed under the laws of the State of New Mexico, do hereby certify that this drainage easement was prepared by me or under my direction and is true and correct to the best of my knowledge and belief.

This is executed at Albuquerque, New Mexico on this 26th day of November, 1992.

Michael E. Beyer, New Mexico Licensed Surveyor No. 7459  
THE B.E.A.R. COMPANY, 1311 Apex Court, Rio Rancho, NM 87124  
(505) 892-0421

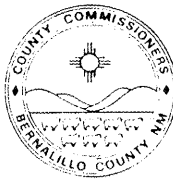
DRAINAGE EASEMENT  
SCALE: 1" = 40'

DRAINAGE PLAN LOT 24, BLOCK 15, TRACT 2, UNIT 1 NORTH ALBUQUERQUE ACRES		
TITLE: DRAINAGE EASEMENT, CROSS SECTION HYDRAULIC ANALYSIS PROFILE		
APPROVALS		ENGINEER
CITY/COUNTY FLOODPLAIN ADMIN.		DATE
COUNTY SURFACE HYDROLOGIST		DATE
AMAFCA		DATE
DESIGNED BY: MICHAEL E. BEYER	DATE: 01 DEC 92	
DRAWN BY: ALAN R. ODEBACA	DATE: 02 DEC 92	
CHECKED BY: MICHAEL E. BEYER	DATE: 03 DEC 92	
SCALE: 1" = 20'	DATE: 04 DECEMBER 1992	SHEET 3 OF 3

THE  
B.E.A.R.  
COMPANY

ENGINEERING - SURVEYING

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January 13, 1993

RAY GALLAGHER, SHERIFF

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Mike Beyer, P.E.  
The B.E.A.R. Company  
1311 Apex Court  
Rio Rancho, NM 87124

RE: DRAINAGE PLAN FOR LOT 24, BLOCK 15, TRACT 2, UNIT 1, N.A.A.,  
RECEIVED DECEMBER, 1992 FOR BUILDING PERMIT APPROVAL, (C-22/D33)

Dear Mr. Beyer:

Prior to Building Permit release please address the attached letter dated December 21, 1992 by AMAFCA regarding the floodplain easement. In addition please secure AMAFCA's and County Public Works signature on the plan.

In the future, for your vicinity maps, use the zone atlas so we can locate the site.

The above comments include AMAFCA and County Public Works review. If you should have any questions, please do not hesitate to contact me at 768-2650.

Cordially,

Gilbert Aldaz, P.E. & P.S.  
City/County Floodplain Administrator

xc: Clifford E. Anderson, AMAFCA  
Bob Foglesong, County PWD

*file*  
wp+3802



THE  
**B.E.A.R.**  
COMPANY

ENGINEERING • SURVEYING

**MICHAEL E. BEYER**

PROFESSIONAL ENGINEER  
License No. 7902

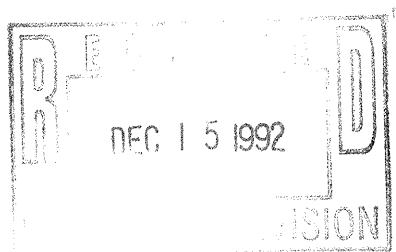
PROFESSIONAL SURVEYOR  
License No. 7459

1311 Apex Court • Rio, Rancho, New Mexico 87124 • 505-892-0421

DRAINAGE PLAN CALCULATIONS  
FOR

**LOT 24, BLOCK 15, TRACT 2, UNIT 1  
WITHIN NORTH ALBUQUERQUE ACRES**

BERNALILLO COUNTY, NEW MEXICO





THE  
B.E.A.R.  
COMPANY

MICHAEL E. BEYER

PROFESSIONAL ENGINEER  
License No. 7902

PROFESSIONAL SURVEYOR  
License No. 7459

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DRAINAGE DESIGN CALCULATIONS  
FOR

LOT 24, BLOCK 15, TRACT 2, UNIT 1  
NORTH ALBUQUERQUE ACRES

**ONSITE CONDITIONS EXISTING:** All property is East of Eubank and North of Interstate 40 yielding Zone 4. Subject lot contains 0.89 acres and is a type "A" land treatment. Drainage primarily sheet flow in developmental area with a designated 100 Year Flood Boundary area across Northern half of property.

Using Table 9 from Page 9 of Interim Criteria:

$$\text{Peak Drainage} = 2.26 \text{ cfs/acre} \times 0.89 \text{ acres} = 2.01 \text{ cfs.}$$

Using rational method:

$$Q = CIA = (0.37)(6.03)(0.89) = 2.00 \text{ cfs}$$

**ONSITE CONDITIONS - PROPOSED:** Using 50% or 0.45 acres as type "D" from Pate 5 of criteria.

After improvements:

$$Q = 2.26 (0.45 \text{ acres}) + 5.74 (0.45 \text{ acres}) = 3.6 \text{ cfs}$$

NOTE: An increase of 1.6 cfs.

**OFFSITE FLOWS ONTO SUBJECT PROPERTY:** Designated 100 Year Flood Boundaries are indicated on drainage plan.

**FLOODWAY ESTABLISHMENT:** The AHYMO392 computer program (AMAFCA Hydrologic Model) was implemented for 100 year storm flow determination across subject property. Velocity and depth of flow was calculated by HEC-2, Water Surface Profiles Program. See Attachment No. 4.



**COMPARISON OF DRAINAGE PLAN CALCULATIONS:** A review of document entitled "North and South Domingo Baca Arroyos and Paseo Del Norte Corridor Drainage Management Plan" by Resource Technology, Inc., Dated December 1991, indicates a 329 cfs 100 Year peak discharge at analysis point 910.20, this point is downstream of subject lot on Lowell Street. The 376 cfs 100 Year peak discharge used in this analysis is very conservative. Difference is in the drainage areas.

**EARTHWORK VOLUMES:**

Cut = 112 cubic yards  
Fill = 64 cubic yards

**EROSION LIMITS:** City of Albuquerque checklist states that building setback requirements for 100 Year Flood Plain should be six feet per 100 cfs, or fraction thereof; at a flow of 376 cfs the setback would be as follows:

$$(4) (6') = 24'$$

Northeast corner of proposed residence meets this minimum setback requirement. See drainage plan.

**Tp CALCULATIONS:** Time of concentration,  $t_c$ , equation for subbasins with reach lengths between 4,000 and 12,000 feet.

$$t_c = [ (12,000 - L) / (120(K)S^{0.5}) ] + [ (L - 4,000) (K_N) (L_{CA}/L)^{0.33} / (4.305) (S^{0.165}) ]$$

where,

$L$  = Subbasin length = 1,300 + 600 + 1,400 + 1,800 = 5,100 ft.

$K$  = 3, from Table 12, Conveyance Factors Page 14, D.P.M., Section 22.2

$S$  = Slope, from topo 4.7%

$K_N$  = 0.025, from Table 13

$L_{CA}$  = 0.60(5,100) = 3,060

This equation is from page 14 of D.P.M., Section 22.2

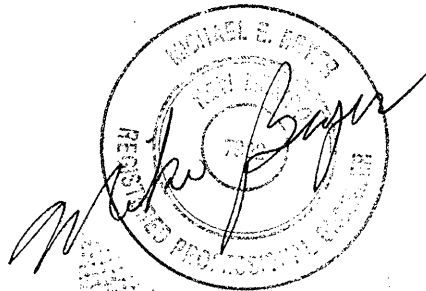
$$t_c = [ (12,000 - 5,100) / (120(3)(4.7)^{0.5}) ] + [ (5,100 - 4,000) (0.025) (3,060/5,100)^{0.33} / (4.305) (4.7)^{0.165} ] \\ = 4.661$$

$$t_p = 2/3(t_c) = 0.66(4.661) = 3.076 \text{ min} = 0.051 \text{ hours}$$

**FINISH FLOOR ELEVATION:** A review of the D.P.M. for freeboard analysis (Section 22.3, Pages 61, 61.1 and 91 Trapezoidal Channel and Associated Types and Berms and Levees) requires a minimum of 3.0 feet of freeboard. The finish floor elevation of 5,979.00 feet meets this requirement as shown on the profile of hydraulic analysis of the drainage plan.

NOTES:

- (1) The insignificant increase of 1.6 cfs will not cause additional erosion downstream.
- (2) Additional grading will be required for the driveway as shown on the drainage plan. Slight swale will be used for crossing Carmel Avenue onto subject lot. Driveway ditchline crossing is near apex of ditch. See drainage plan.
- (3) No development or improvements will infringe on any designated 100 year flood boundaries.
- (4) This is to certify that I, Michael E. Beyer, a duly qualified professional engineer and surveyor, licensed under the laws of the State of New Mexico, have on April 18, 1992 visited the subject site and that it appears no grading, filling, or excavation has taken place.



5 NOVEMBER 1992



AHYMO PROGRAM (AHYMO392) - AMAFCA VERSION OF HYMO - MARCH, 1992  
 RUN DATE (MON/DAY/YR) = 08/09/1992  
 START TIME (HR:MIN:SEC) = 14:09:26      USER NO.= BEYER\_NM.I01  
 INPUT FILE = GOAT

START                      TIME=0   PUNCH CODE=0  
 RAINFALL                  TYPE=1   QUARTER=0  
                          ONE=2.23 SIX=2.90  
                          DAY=3.65 DT=0.033333HR

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK  
 DT = .033333 HOURS      END TIME = 5.999940 HOURS

.0000	.0055	.0110	.0167	.0225	.0284	.0345
.0406	.0470	.0534	.0600	.0668	.0738	.0809
.0882	.0958	.1035	.1115	.1198	.1283	.1370
.1461	.1555	.1653	.1755	.1860	.1971	.2086
.2207	.2335	.2469	.2531	.2596	.2667	.2819
.3158	.3679	.4428	.5450	.6793	.8505	1.0637
1.3239	1.5646	1.6653	1.7504	1.8260	1.8948	1.9582
2.0171	2.0720	2.1236	2.1721	2.2178	2.2611	2.3020
2.3407	2.3775	2.4124	2.4455	2.4769	2.4850	2.4928
2.5002	2.5074	2.5143	2.5210	2.5275	2.5339	2.5400
2.5460	2.5518	2.5575	2.5631	2.5685	2.5738	2.5790
2.5841	2.5891	2.5940	2.5989	2.6036	2.6083	2.6129
2.6174	2.6218	2.6262	2.6305	2.6348	2.6390	2.6431
2.6472	2.6512	2.6552	2.6591	2.6630	2.6668	2.6706
2.6744	2.6781	2.6817	2.6854	2.6890	2.6925	2.6960
2.6995	2.7029	2.7064	2.7097	2.7131	2.7164	2.7197
2.7230	2.7262	2.7294	2.7326	2.7357	2.7388	2.7419
2.7450	2.7481	2.7511	2.7541	2.7571	2.7600	2.7630
2.7659	2.7688	2.7716	2.7745	2.7773	2.7802	2.7829
2.7857	2.7885	2.7912	2.7939	2.7967	2.7993	2.8020
2.8047	2.8073	2.8099	2.8125	2.8151	2.8177	2.8203
2.8228	2.8254	2.8279	2.8304	2.8329	2.8354	2.8378
2.8403	2.8427	2.8451	2.8476	2.8500	2.8524	2.8547
2.8571	2.8595	2.8618	2.8641	2.8664	2.8688	2.8711
2.8733	2.8756	2.8779	2.8801	2.8824	2.8846	2.8868
2.8891	2.8913	2.8935	2.8957	2.8978	2.9000	

COMPUTE NM HYD      ID=2 HYD NO=401.0  
                      AREA=0.107 SQ MI  
                      A=11 AC   B= 7 AC  
                      C=41 AC   D=9   AC  
                      TP=0.051 HRS MASS RAIN=-1

\*\*\*\*\*WARNING\*\*\*\*\* SUM OF TREATMENT TYPES DOES NOT EQUAL 100 PERCENT OR TOTAL

K = .027893HR      TP = .051000HR      K/TP RATIO = .546930      SHAPE CONST  
 UNIT PEAK = 145.72 'CFS      UNIT VOLUME = 1.015      B = 524.76      F  
 AREA = .014162 SQ MI      IA = .10000 INCHES      INF = .04000 INCHES F  
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .03

K = .045581HR TP = .051000HR K/TP RATIO = .893750 SHAPE CONST

UNIT PEAK = 642.54 CFS UNIT VOLUME = 1.005 B = 352.98 F  
 AREA = .092838 SQ MI IA = .42373 INCHES INF = 1.03644 INCHES F  
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .03

RINT HYD ID=2 CODE=1

HYDROGRAPH FROM AREA 401.00

RUNOFF VOLUME = 1.43795 INCHES = 8.2058 ACRE-FEET  
 PEAK DISCHARGE RATE = 376.10 CFS AT 1.433 HOURS BASIN AREA = .1070

FINISH

*CARMIL LOT 24*

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 14:09:28

# FLOOD BOUNDARY MAP

COMMUNITY - PAVEL NUMBER

35002-0011

SEPT 15, 1983

LOT 24, TRACT 3, BLOCK 15, UNIT 1

DRAINAGE  
AREA

CHANNEL



## Carmel

## The B.B.A.R Company

X1 1.50	12 32	82 25	25 25	0 0	0
GR5979.0	20 5978.0	28 5977.0	32 5976.0	34 5975.0	39
GR5974.0	46 5973.8	50 5974.0	63 5975.0	68 5976.0	82
GR5977.0	90 5978.0	96			
X1 1.75	12 36	81 26	25 23	0 0	0
GR5977.3	20 5977.0	26 5976.0	31 5975.0	36 5974.0	43
GR5973.0	47 5972.8	50 5973.0	52 5974.0	76 5975.0	81
GR5976.0	87 5977.0	99			
X1 2.00	12 44	60 24	25 27	0 0	0
GR5976.6	20 5976.0	24 5975.0	33 5974.0	44 5973.0	46
GR5972.0	47 5971.8	50 5972.0	56 5973.0	60 5974.0	76
GR5975.0	80 5976.0	94			
X1 2.25	11 34	62 22	25 23	0 0	0
GR5975.8	20 5975.0	34 5974.0	39 5973.0	41 5972.0	42
GR5971.0	48 5970.7	50 5971.0	54 5972.0	62 5973.0	68
GR5974.0	105				
X1 2.50	12 23	62 25	25 25	0 0	0
GR5975.0	17 5974.0	23 5973.0	24 5972.0	27 5971.0	31
GR5970.0	45 5969.8	50 5970.0	53 5971.0	62 5972.0	73
GR5973.0	84 5974.0	98			
X1 2.75	14 13	89 34	25 19	0 0	0
GR5975.8	0 5975.0	8 5974.3	13 5974.0	16 5973.0	17
GR5972.0	18 5971.0	21 5970.0	30 5969.4	50 5970.0	60
GR5971.0	75 5972.0	89 5972.0	101 5971.0	170	
X1 3.00	12 14	82 25	25 25	0 0	0
GR5974.0	0 5974.3	1 5974.0	2 5973.0	3 5972.0	7
GR5971.0	14 5970.0	22 5969.0	32 5968.7	50 5969.0	56
GR5970.0	64 5971.0	82			
X1 3.25	9 18	62 25	25 25	0 0	0
GR5972.0	5 5971.0	17 5970.9	18 5970.0	23 5969.0	30
GR5968.4	50 5969.0	62 5970.0	100 5970.0	159	
X1 3.50	9 23	80 27	25 23	0 0	0
GR5971.9	0 5971.0	15 5970.0	23 5969.0	28 5968.0	35
GR5967.3	50 5968.0	59 5969.0	80 5969.0	111	
X1 3.75	9 23	59 25	25 18	0 0	0
GR5970.0	0 5969.0	14 5968.0	23 5967.0	36 5966.4	50
GR5967.0	59 5968.0	64 5968.1	83 5968.0	103	
X1 4.00	5 34	61 21	25 32	0 0	0
GR5967.0	21 5966.0	34 5965.0	50 5966.0	61 5967.0	73
X1 4.25	8 34	65 25	25 25	0 0	0
GR5967.0	16 5966.3	28 5966.0	29 5965.3	34 5965.0	39
GR5965.0	63 5965.3	65 5966.3	72		
X1 4.50	8 33	69 25	25 25	0 0	0
GR5966.0	7 5965.0	33 5964.0	38 5963.5	50 5964.0	60
GR5964.4	65 5965.0	69 5965.4	72		
X1 4.75	11 32	68 25	25 25	0 0	0
GR5965.0	26 5964.5	30 5964.0	32 5963.5	35 5963.0	45
GR5962.6	50 5963.0	58 5963.0	65 5964.0	68 5964.5	73
GR5965.0	77				
X1 5.00	12 24	75 25	25 25	0 0	0
GR5964.0	24 5963.6	27.5 5963.0	33 5962.6	35 5962.0	43
GR5961.7	50 5962.0	56 5962.6	65 5963.0	68 5963.6	73
GR5964.0	75 5965.0	87			
X1 5.25	12 23	75 25	25 25	0 0	0
GR5963.0	23 5962.7	27 5962.0	32 5961.7	35 5961.0	44
GR5960.8	50 5961.0	55 5961.7	65 5962.0	67 5962.7	73

Carmel

The B.B.A.R Company

GR5963.0	75	5964.0	82					
X1 5.50	12	23	75	25	25	0	0	0
GR5962.0	23	5961.8	27	5961.0	33	5960.8	40	5960.0 46
GR5959.9	50	5960.0	52	5960.8	65	5961.0	67	5961.8 73
GR5962.0	75	5963.0	101					
X1 5.75	11	26	74	25	25	0	0	0
GR5961.0	26	5960.9	27	5960.0	33	5959.9	35	5959.0 48
GR5959.0	51	5959.9	65	5960.0	66	5960.9	72	5961.0 74
GR5962.0	84							
X1 6.00	7	28	72	25	25	0	0	0
GR5961.0	19	5960.0	28	5959.0	35	5958.1	50	5959.0 64
GR5960.0	72	5961.0	83					
X1 6.25	11	29	71	25	25	0	0	0
GR5960.0	18	5959.1	27	5959.0	29	5958.1	35	5958.0 38
GR5957.2	50	5958.0	60	5958.1	65	5959.0	71	5959.1 72
GR5960.0	81							

BJ

BR

1SUMMARY OF ERRORS

0

T1 CARMEL LOT 24

T2

T3 CARMEL LOT 24 REVISED 10/31/92

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*-----*
|           |
|   S U M P O   |
|           |
| Interactive Summary Printout |
| for MS/PC-DOS micro computers |
|           May 1991           |
|           |
*-----*

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NOTE - Asterisk (\*) at left of profile number  
indicates message in summary of errors  
list

CARMEL LOT 24 REVISED 1

Summary Printout

	SBCNO	CWSBL	TOPWID	ARBA	Q	DEPTH	QCH	VCH	CRWS	FRCH	BLMIN	DIFWSY	KRATIO
*	.00	5985.65	46.05	58.38	380.00	2.05	371.47	6.86	5985.65	.94	5983.60	.00	.00
*	.25	5982.71	30.62	27.04	380.00	1.31	380.00	14.05	5983.52	2.64	5981.40	-2.94	3.09
*	.50	5982.08	31.86	34.15	380.00	1.88	380.00	11.14	5982.67	1.87	5980.20	-.63	.68
	.75	5980.18	30.56	30.08	380.00	1.78	379.98	12.69	5980.90	2.20	5978.40	-1.90	1.19
	1.00	5977.54	33.08	26.89	380.00	1.44	380.00	14.13	5978.32	2.76	5976.10	-2.63	1.30
	1.25	5976.23	25.50	24.71	380.00	1.63	380.00	15.38	5977.18	2.75	5974.60	-1.31	.97
	1.50	5975.16	32.02	29.56	380.00	1.36	380.00	12.86	5975.91	2.36	5973.80	-1.07	.86
	1.75	5974.46	38.51	35.93	380.00	1.66	380.00	10.58	5974.99	1.93	5972.80	-.70	.82
*	2.00	5974.33	36.96	46.80	380.00	2.53	316.33	9.68	5974.69	1.19	5971.80	-.13	.56
*	2.25	5972.84	25.91	33.29	380.00	2.14	370.53	11.89	5973.63	1.71	5970.70	-1.49	1.49
*	2.50	5971.29	35.34	29.89	380.00	1.49	378.52	12.86	5972.03	2.37	5969.80	-1.55	1.48
	2.75	5970.76	48.14	38.53	380.00	1.36	380.00	9.86	5971.25	1.94	5969.40	-.54	.84
	3.00	5970.10	44.88	41.41	380.00	1.40	380.00	9.18	5970.54	1.68	5968.70	-.65	.85
	3.25	5969.92	73.40	58.08	380.00	1.52	320.80	7.64	5970.20	1.29	5968.40	-.19	.74
	3.50	5968.99	51.63	45.72	380.00	1.69	380.00	8.31	5969.34	1.56	5967.30	-.93	1.25
	3.75	5968.09	78.37	44.50	380.00	1.69	363.19	9.13	5968.49	1.53	5966.40	-.90	.95
	4.00	5966.63	42.87	35.68	380.00	1.63	358.41	11.70	5967.25	1.94	5965.00	-1.45	1.26
	4.25	5966.25	43.42	43.71	380.00	1.25	351.90	9.38	5966.64	1.50	5965.00	-.39	.77
	4.50	5965.05	37.64	37.00	380.00	1.55	380.00	10.28	5965.58	1.79	5963.50	-1.20	1.23
	4.75	5964.15	38.24	38.28	380.00	1.55	379.80	9.97	5964.65	1.71	5962.60	-.90	.95
	5.00	5963.32	40.49	39.70	380.00	1.62	380.00	9.57	5963.76	1.70	5961.70	-.84	1.01
	5.25	5962.39	41.17	40.15	380.00	1.59	380.00	9.46	5962.83	1.69	5960.80	-.92	.99
	5.50	5961.61	43.13	42.07	380.00	1.71	380.00	9.03	5962.01	1.61	5959.90	-.78	.95
	5.75	5960.61	41.05	40.37	380.00	1.61	380.00	9.41	5961.03	1.67	5959.00	-1.00	1.04
	6.00	5959.82	41.28	41.82	380.00	1.72	380.00	9.09	5960.20	1.59	5958.10	-.78	.95
	6.25	5958.94	41.19	41.28	380.00	1.74	380.00	9.21	5959.34	1.62	5957.20	-.88	1.02



Mike Beyer, P.E.  
The B.E.A.R. Company  
1311 Apex Court  
Rio Rancho, NM 87124

The above comments include AMAFCA and County Public Works review. If you should have any questions, please do not hesitate to contact me at 768-2650.

Cordially,



Gilbert Aldaz, P.E. & P.S.  
City/County Floodplain Administrator

xc: Clifford E. Anderson, AMAFCA  
Bob. Foglesong, County PWD  
*file*

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