HV-141
5766.67

R55

57 AC

24.339 acres
(0.0380 sq.mi.)

BASIN 1
SUB-BASIN 1

HV-8
5753.29

20.097 acres
(0.0314 sq.mi.)

L=1770 feet

BASIN 1
SUB-BASIN 2

5708.9

BASIN 2
SUB-BASIN 3
4.441 acres
0.0069 sq.mi

BASIN 2
SUB-BASIN 4
5.636 acres
0.0088 sq.mi

5700.9

19.130 acres
0.0299 sq.mi

6.078 acres
0.0095 sq.mi

BASIN 4
SUB-BASIN 7

BASIN 3
SUB-BASIN 6

4.142 acres
0.006 sq.mi

Trapezoidal Ditch

5624.3

5613.8

5601.5

24.339
20.097
4.441
5.636
19.130
4.142
6.078
83.863 acres
or 0.131 sq.mi.

5' contour intervals

16.68
16.68

X < 25' C
25' < X < 50' B

BASIN 1 - SUB-BASIN 1
~~A 14.401 AC~~ 1.233
~~B 7.757 AC~~ 3/100
C 2.121 AC
Total ~~24.339 AC~~ ~~5.533~~

BASIN 1 - SUB-BASIN 2
~~A 9.85 1.233~~
~~B 10.25 AC~~ 9.908
C B
Total ~~20.097 AC~~ 11.163

BASIN 2 - SUB-BASIN 3
A 0.455 AC
B 0.811 AC
C 3.175 AC
Total 4.441 ac

BASIN 2 - SUB-BASIN 4
B 4.858 AC
C 0.783 AC
A ∅
Total 5.636 AC

BASIN 3 - SUB-BASIN 5
B 0.213
C 1.096
1.309 Acre

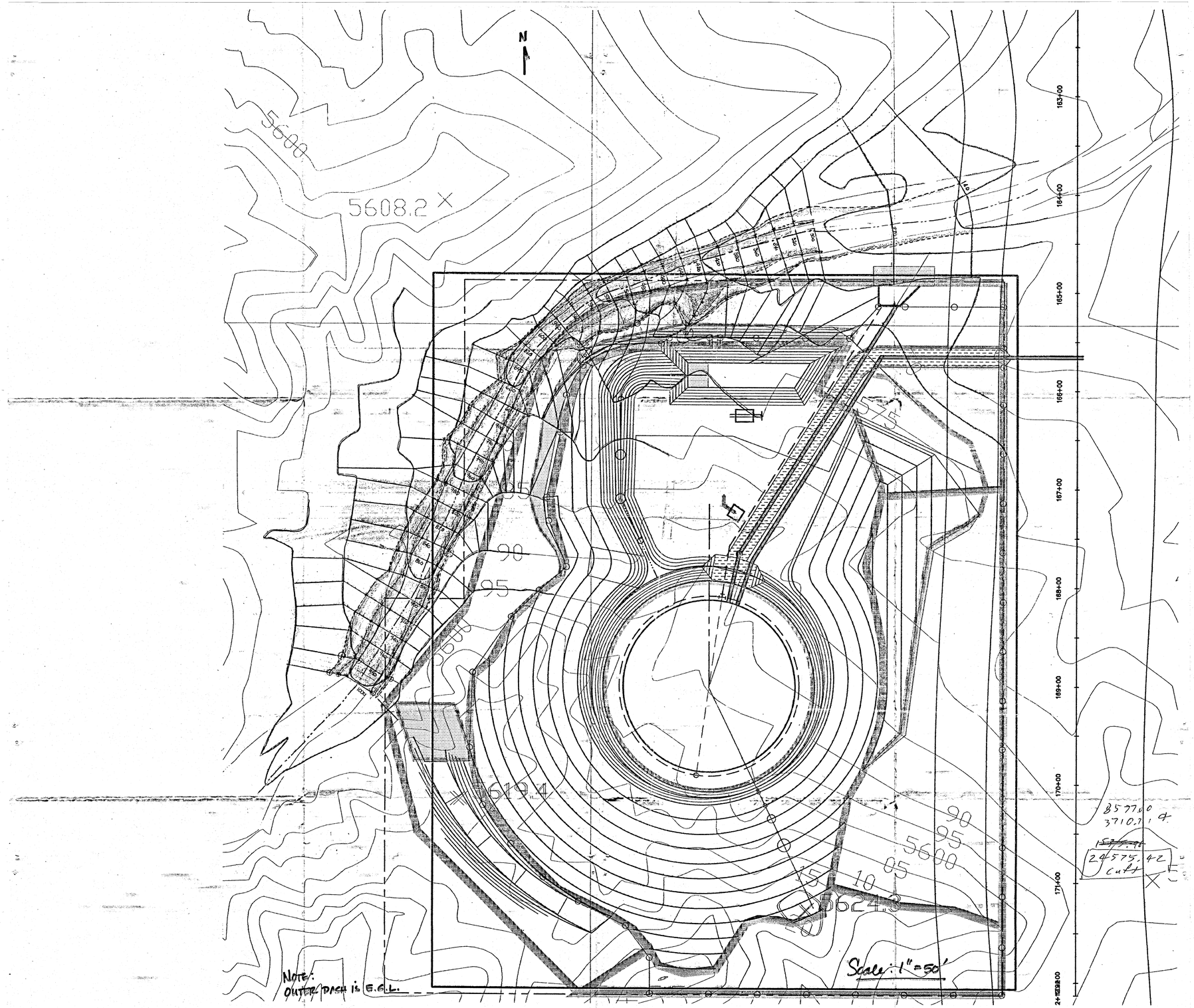
BASIN 3 - SUB-BASIN 6
B 3.003 AC
C 16.127 AC
A ∅
Total 19.130 ac.

BASIN 4 - SUB-BASIN 7
B 2.035 AC
C 4.043 AC
Total 6.079 acres

B 0.701 AC
C 3.441 AC
A ∅
Total 4.142 ac.

FIGURE 1

DRAINAGE BASINS - PRE-DEVELOPED COND. FIGURE 1


N
5600
5608.2
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5655
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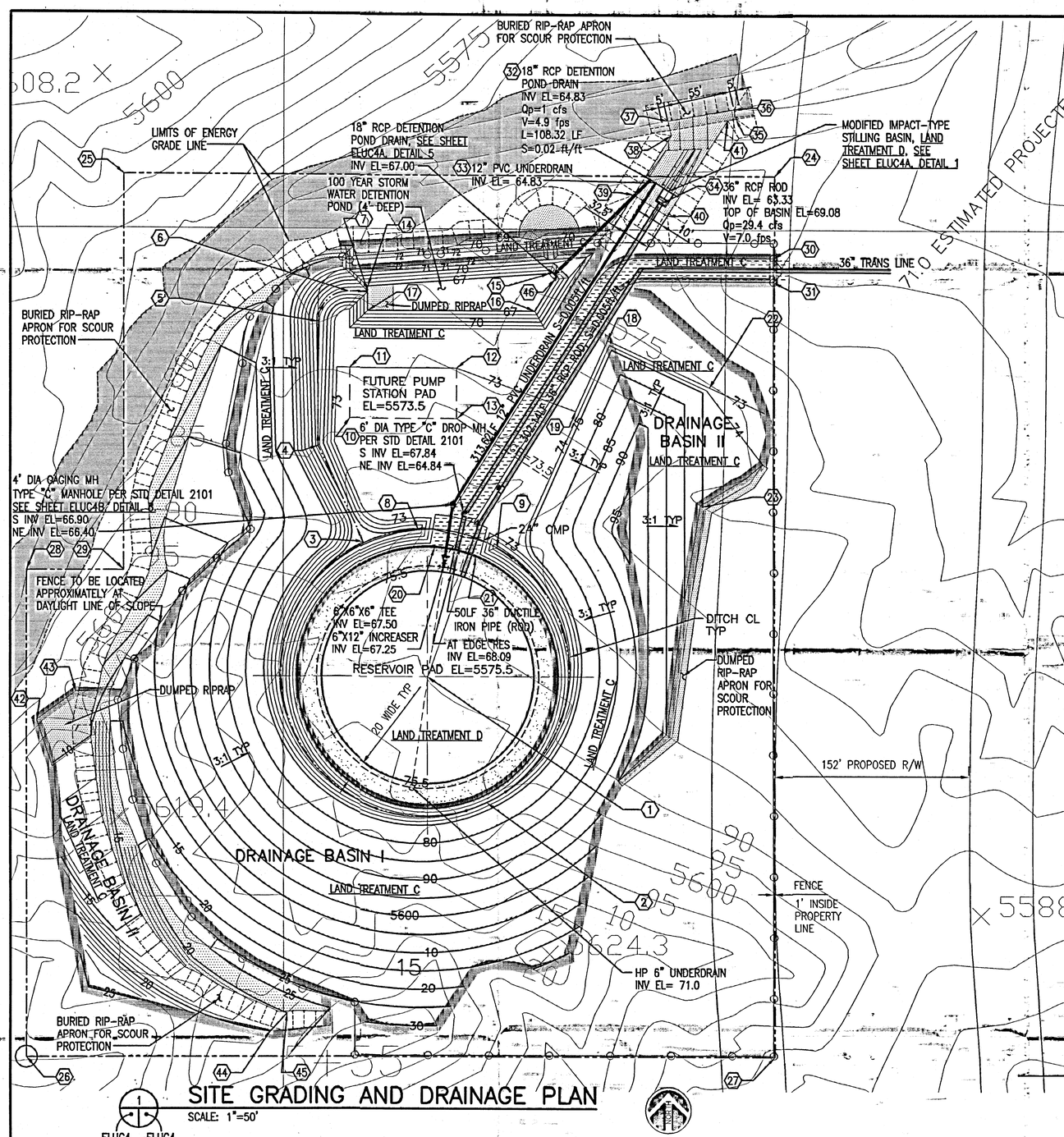
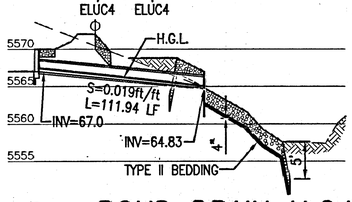
6155
6160
6165
6170
6175
6180
6185
6190
6194
90
95
5600
05
10
6243
S-S
163+00
164+00
165+00
166+00
167+00
168+00
169+00
170+00
171+00
24+[illegible]00
B 577.60
3710.71 ft
2 4575.42
cuft
NOTE:
OUTER DASH is E.G.L.
Scale: 1" = 50'

FIGURE 2



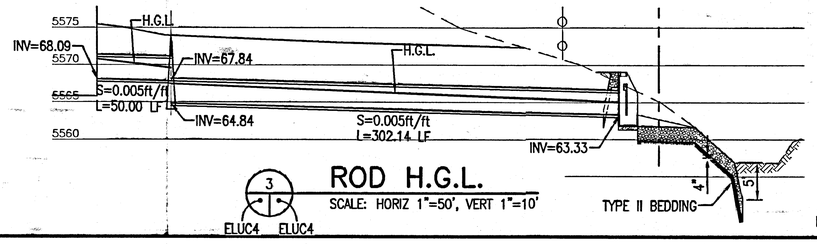
SITE GRADING AND DRAINAGE PLAN

1 / ELUC4 ELUC4 — SCALE: 1"=50'



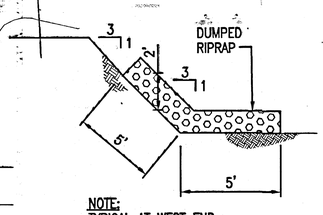
POND DRAIN H.G.L.

2 / ELUC4 ELUC4 — SCALE: HORIZ 1"=50', VERT 1"=10'

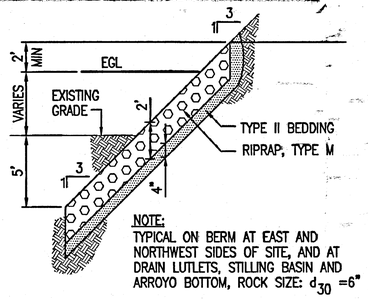


ROD H.G.L.

3 / ELUC4 ELUC4 — SCALE: HORIZ 1"=50', VERT 1"=10'



NOTE: TYPICAL AT WEST END OF POND, AND AT NORTH END OF TRAPEZOIDAL DITCH ON WEST SIDE. ROCK SIZE: d_{30} =6"



NOTE: TYPICAL ON BERM AT EAST AND NORTHWEST SIDES OF SITE, AND AT DRAIN OUTLETS, STILLING BASIN AND ARROYO BOTTOM, ROCK SIZE: d_{30} =6"

RIP-RAP PROTECTION DETAIL

4 / ELUC4 ELUC4 — SCALE: 3/4"=1'-0"

KEYED NOTES

NO.	NORTHING	EASTING	DESCRIPTION	ELEVATION
1	1488831.49	1485118.49	CENTER RESERVOIR	FG=5575.50
2	1488529.01	1485167.28	HIGH POINT DITCH	FG=5573.00
3	1488742.05	1485065.86	DITCH INTERSECTION	FG=5569.50
4	1488821.40	1485028.49	PI DITCH	FG=5568.53
5	1488922.89	1485028.48	PC DITCH	FG=5567.43
6	1488947.99	1485053.48	PT DITCH	FG=5567.04
7	1488947.89	1485069.35	END DITCH	FG=5567.00
8	1488753.54	1485110.92	24" CMP	INV EL=5570.00
9	1488738.66	1485175.89	24" CMP	INV EL=5570.50
10	1488821.49	1485078.49	CORNER PAD	FG=5573.50
11	1488862.82	1485078.49	CORNER PAD	FG=5573.50
12	1488862.82	1485168.49	CORNER PAD	FG=5573.50
13	1488821.49	1485168.49	CORNER PAD	FG=5573.50
14	1488952.17	1485069.35	CORNER POND BOTT	FG=5567.00
15	1488963.38	1485218.75	CORNER POND BOTT & WALL	FG=5567.00
16	1488932.49	1485208.80	CORNER POND BOTT	FG=5567.00
17	1488932.49	1485069.35	CORNER POND BOTT	FG=5567.00
18	1489008.62	1485266.76	BASE BERM	FG=5573.00
19	1488850.09	1485240.58	BASE BERM	FG=5573.00
20	1488738.04	1485124.26	DRIVE ACCESS	FG=5575.00
21	1488730.65	1485158.29	DRIVE ACCESS	FG=5575.00
22	1488869.96	1485350.37	BASE BERM	FG=5573.00
23	1488772.47	1485345.01	BASE BERM	FG=5575.00
24	1489044.43	1485403.93	NE PROPERTY CORNER	–
25	1489044.43	1484868.93	NW PROPERTY CORNER	–
26	1488319.43	1484788.93	SW PROPERTY CORNER	–
27	1488319.43	1485403.93	SE PROPERTY CORNER	–
28	1488719.43	1484788.93	PROPERTY CORNER	–
29	1488719.43	1484868.93	PROPERTY CORNER	–
30	1488976.95	1485402.93	GATE POST	–
31	1488956.95	1485402.93	GATE POST	–
32	1489041.70	1485302.02	DRAIN PIPE OUTLET	INV EL=5564.83
33	1489039.04	1485306.25	UNDERDRAIN OUTLET	INV EL=5564.83
34	1489021.81	1485310.18	ROD OUTLET	INV EL=5563.02
35	1489091.69	1485372.05	SE CORNER RIP-RAP	FG=5556.8
36	1489099.40	1485370.29	NE CORNER RIP-RAP	FG=5555.3
37	1489090.07	1485316.01	NW CORNER RIP-RAP	FG=5557.6
38	1489077.81	1485318.80	CORNER RIP-RAP	FG=5559.2
39	1489029.12	1485288.21	SW CORNER RIP-RAP	FG=5568.8
40	1489011.83	1485315.72	CORNER RIP-RAP	FG=5568.8
41	1489090.47	1485365.15	CORNER RIP-RAP	FG=5556.9
42	1488595.88	1484797.42	NW CORNER RIP-RAP	FG=5595.0
43	1488619.26	1484829.87	NE CORNER RIP-RAP	FG=5610.0
44	1488349.89	1484989.17	SW CORNER CHANNEL	FG=5615.0
45	1488355.90	1485002.84	SE CORNER CHANNEL	FG=5615.0
46	1488958.77	1485223.33	CORNER POND BOTT & WALL	FG=5567.00

DRAINAGE CALCULATIONS

100-YEAR STORM

REFERENCE: COA DEVELOPMENT PROCESS MANUAL, CHAPTER 22, PRECIPITATION ZONE 1

DESCRIPTION	EXISTING DRAINAGE BASINS	PROPOSED DRAINAGE BASINS I	II	TOTAL
LAND TREATMENT A (NATIVE, SLOPES LESS THAN 10%)				
AREA, AC.	0.000	0.000	0.000	0.000
Q, cfs (AREA x 1.29)(1.15)**	0.000	0.000	0.000	0.000
LAND TREATMENT B (PARK, NATIVE W/ SLOPES GREATER THAN 10%)				
AREA, AC.	5.627	0.000	0.000	0.000
Q, cfs (AREA x 2.03)(1.15)**	13.136	0.000	0.000	0.000
LAND TREATMENT C (COMPACTED SOIL)				
AREA, AC.	0.000	3.797	1.218	5.015
Q, cfs (AREA x 2.87)(1.15)**	0.000	12.532	4.02	16.552
LAND TREATMENT D (ROOF & PAVEMENT)				
AREA, AC.	0.000	0.768	0.027	0.795
Q, cfs (AREA x 4.37)(1.15)**	0.000	3.860	0.136	3.996
TOTAL				
AREA, AC.	5.627	4.565	1.245	5.880
Q, cfs	13.136	16.392*	4.156	20.548

* FOR POST-DEVELOPMENT CONDITIONS, DRAINAGE FROM BASIN I WILL BE RELEASED FROM STORM WATER DETENTION POND AT 1.0 cfs. TOTAL RELEASE RATE FROM SITE WILL BE 4.552 cfs.

** 1.15 = BULKING FACTOR.

NOTICE TO CONTRACTOR

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH "CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" AND BERNALILLO COUNTY PUBLIC WORKS DRAINAGE ORDINANCE.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

ABBREVIATIONS:

FG	FINISH GRADE
PI	POINT OF INTERSECTION
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
CMP	CORRUGATED METAL PIPE
INV	INVERT
EL	ELEVATION
CL	CENTERLINE
N	NORTHING
E	EASTING
TYP	TYPICAL
R/W	RIGHT OF WAY
HP	HIGH POINT
ROD	RESERVOIR OVERFLOW DRAIN
RCP	REINFORCED CONCRETE PIPE
MH	MANHOLE

LEGEND

- FLOW LINE
- CHAINLINK FENCE
- PROPERTY LINE
- SLOPE INDICATOR
- 3:1 TYP — SLOPE AND DIRECTION
- RIPRAP
- CONCRETE PAVEMENT
- ACCESS ROAD-CRUSHER FINES
- LIMITS OF ENERGY GRADE LINE
- DRAINAGE BASIN BOUNDARY
- LAND TREATMENT BOUNDARY

SITE INFORMATION

ACREAGE: APPROX. 9.639 ACRES

ZONE 4W RESERVOIR SITE
LEGAL DESCRIPTION

WESTLAND DEVELOPMENT CO., INC. DATE: 01/01/00

BEING THAT CERTAIN PARCEL OF LAND SITUATED WITHIN THE TOWN OF ATRISCO GRANT AND ALSO BEING LOCATED IN PROJECTED SECTION 18, TOWNSHIP 10 NORTH, RANGE 2 EAST, NEW MEXICO PRINCIPAL MERIDIAN, COUNTY OF BERNALILLO, STATE OF NEW MEXICO AND BEING MORE PARTICULARLY DESCRIBED BY NEW MEXICO STATE PLANE GRID (CENTRAL ZONE) BEARINGS AND GROUND DISTANCES AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF SAID PARCEL, FROM WHICH A BLM BRASS CAP MARKING AP NO. 8, TRACT 101-04 OF THE PETROGLYPH NATIONAL MONUMENT BEARS N 47° 00' 39" E, A DISTANCE OF 13,492.88 FEET;

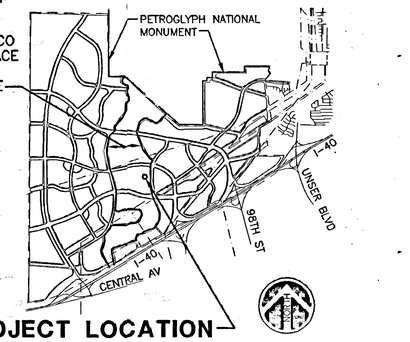
THENCE, WEST, ALONG THE SOUTH LINE OF SAID PARCEL, A DISTANCE OF 615.00 FEET TO THE SOUTHWEST CORNER;

THENCE, NORTH, ALONG THE WEST LINE OF SAID PARCEL, A DISTANCE OF 400.00 FEET; THENCE EAST A DISTANCE OF 80.00 FEET; THENCE NORTH A DISTANCE OF 325.00 FEET TO THE NORTHWEST CORNER;

THENCE, EAST, ALONG THE NORTH LINE OF SAID PARCEL, A DISTANCE OF 535.00 FEET TO THE NORTHEAST CORNER;

THENCE, SOUTH, ALONG THE EAST LINE OF SAID PARCEL, A DISTANCE OF 725.00 FEET TO THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED.

CONTAINING 419,875 SQUARE FEET (9.639 ACRES), MORE OR LESS.



PROJECT LOCATION

0 6000 12000 18000

5 / ELUC4 ELUC4

VICINITY MAP

SCALE: AS SHOWN
ZONE J7

AS BUILT INFORMATION

CONTRACTOR — DATE
WORK INSPECTED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS REVISED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION

NO.	BY	DATE

ENGINEER'S SEAL

VICTORIA ALETHA DERY, NEW MEXICO, 13654, 5.1.00, REGISTERED PROFESSIONAL ENGINEER

Victoria Alethe Dery

NO.	REMARKS	DATE	BY
	REVISIONS		
	LEEDSHILL-HERKENHOFF, INC.		
	DESIGNED BY BGC	DATE 05-99	
	DRAWN BY BGC J	DATE 05-99	
	CHECKED BY VAD	DATE 05-99	

LEEDSHILL-HERKENHOFF, INC
an ASCG Company
500 Copper Avenue NW – Suite 500
P.O. Box 1217
Albuquerque, NM 87103
(505)247-0294

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ZONE 4W RESERVOIR

SITE GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet	Of
–	J-7	ELUC4	5

J:\WESTLAND\99012\DWG\WATER\C301REV.dwg 03-01-00 BGC