

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

June 4, 1992

W. Reed Edgel, P.E.
Rodriguez & Associates
12800 San Juan Road, NE
Albuquerque, New Mexico 87123

RE: DRAINAGE PLAN FOR 1705 VALDEZ DRIVE, NE
(J-23/D18) ENGINEER'S STAMP DATED MAY 28, 1992

Dear Mr. Edgel:

Based on the information provided on your submittal of May 29, 1992, the above referenced plan is approved for Building Permit.

Please be advised that the approval is for the drainage concept and does not include approval for retaining walls or zoning requirements.

If I can be of further assistance, please feel free to call me at 768-2650.

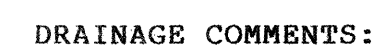
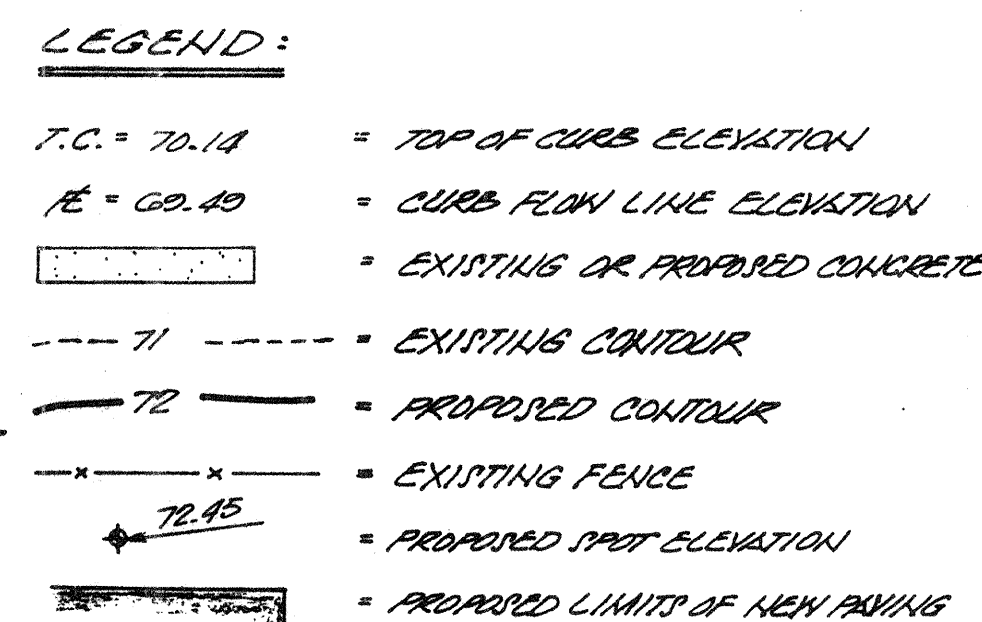
Cordially,

Bernie J. Montoya
Bernie J. Montoya, C.E.
Engineering Assistant

xc: Alan Martinez

BJM/bsj

PUBLIC WORKS DEPARTMENT



AS SHOWN ON THE VICINITY MAP HEREON, THE SUBJECT PROPERTY IS LOCATED ON VALDEZ DRIVE N.E. TWO (2) BLOCKS NORTH OF INDIAN SCHOOL ROAD N.E. IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO. BASED ON A SITE INVESTIGATION AND TOPOGRAPHY FIELD SURVEY OF THE SUBJECT SITE, IT HAS BEEN DETERMINED THAT THE DEVELOPED RUNOFF OF THE PROPOSED IMPROVEMENTS ARE TO BE DIRECTED EASTERLY TOWARDS AND INTO VALDEZ DRIVE N.E. (A PUBLIC STREET); THE REMAINING RUNOFF OF THE EXISTING NORTHERLY, SOUTHERLY, AND WESTERLY AREAS WHICH ARE TO BE LANDSCAPED, (TERRACED OR SLOPED) ARE TO BE TOWARDS AND INTO VALDEZ DRIVE N.E. AND THE SOUTHWEST WHICH IS SHOWN ON THE PLAN HEREON. DEVELOPED RUNOFF IS TO BE DIVERTED INTO STREET VIA ROOF GUTTERS AND DRAINAGE SWALES AS SHOWN HEREON.

DRAINAGE CALCULATIONS:

RATIONAL METHOD: $Q_{100} = \text{CIA}$ LOT SIZE = 90.0' X 100.0' = 9,000.0 SQ. FT.
6 HR. - 100/YR. RAINFALL = 2.55 IN. 0.21 ACRE

$$T_C = \text{TEN (10) MINUTES MINIMUM}$$

$$"I" = (2.55) (6.84) (10)^{-0.51} = 5.39 \text{ IN.}$$

DEVELOPED CONDITIONS:

TOTAL AREA	=	9,000.0 SQ. FT.	=	0.21 AC.
IMPERVIOUS AREA	=	3,300.0 SQ. FT.	=	0.08 AC.
LANDSCAPED AREA	=	5,700.0 SQ. FT.	=	0.13 AC.
AREA TO POND	=	3,755.0 SQ. FT.	=	0.09 AC.
RUNOFF AREA TO STREET=		5,245.0 SQ. FT.	=	0.12 AC.

POND CALCULATIONS:

AREA TO POND = 3,755.0 SQ. FT. = 0.09 AC.
 $V_{100} = 0.25 \times (2.55/12) \times 3,755.0 = \underline{199.5 \text{ CU. FT.}}$
 POND SIZE = 0.50 X 6.0 X 75.0 = 225.0 CU. FT. 199.5 CU. FT.

PROPOSED CONDITIONS:

HARD SURFACED (ASPHALT/CONC.)	= 0.02 AC.	= 10% X (C=0.95)	= 0.09
BUILDING ROOF AREA	= 0.06 AC.	= 29% X (C=0.90)	= 0.26
LANDSCAPED AREA	= 0.13 AC.	= 61% X (C=0.25)	= 0.15
		"C" FACTOR	= 0.50

$Q_{100} = \text{CIA}$	$C = 0.50$	"I" = 5.39	A = 0.21
$Q_{100} = 0.50 \times 5.39 \times 0.21 = 0.57$	CFS	<u>TOTAL SITE CONSIDERED</u>	
$Q_{100} = 0.50 \times 5.39 \times 0.12 = 0.32$	CFS	<u>DEVELOPED RUNOFF TO STREET</u>	

NOTES

- 1.) THE SUBJECT SITE IS NOT LOCATED WITHIN A DESIGNATED FLOODPLAIN.
- 2.) THE PROPOSED DEVELOPED RUNOFF INTO VALDEZ DRIVE N.E. HAS NO ADVERSE AFFECT TO DOWNSTREAM PROPERTIES.



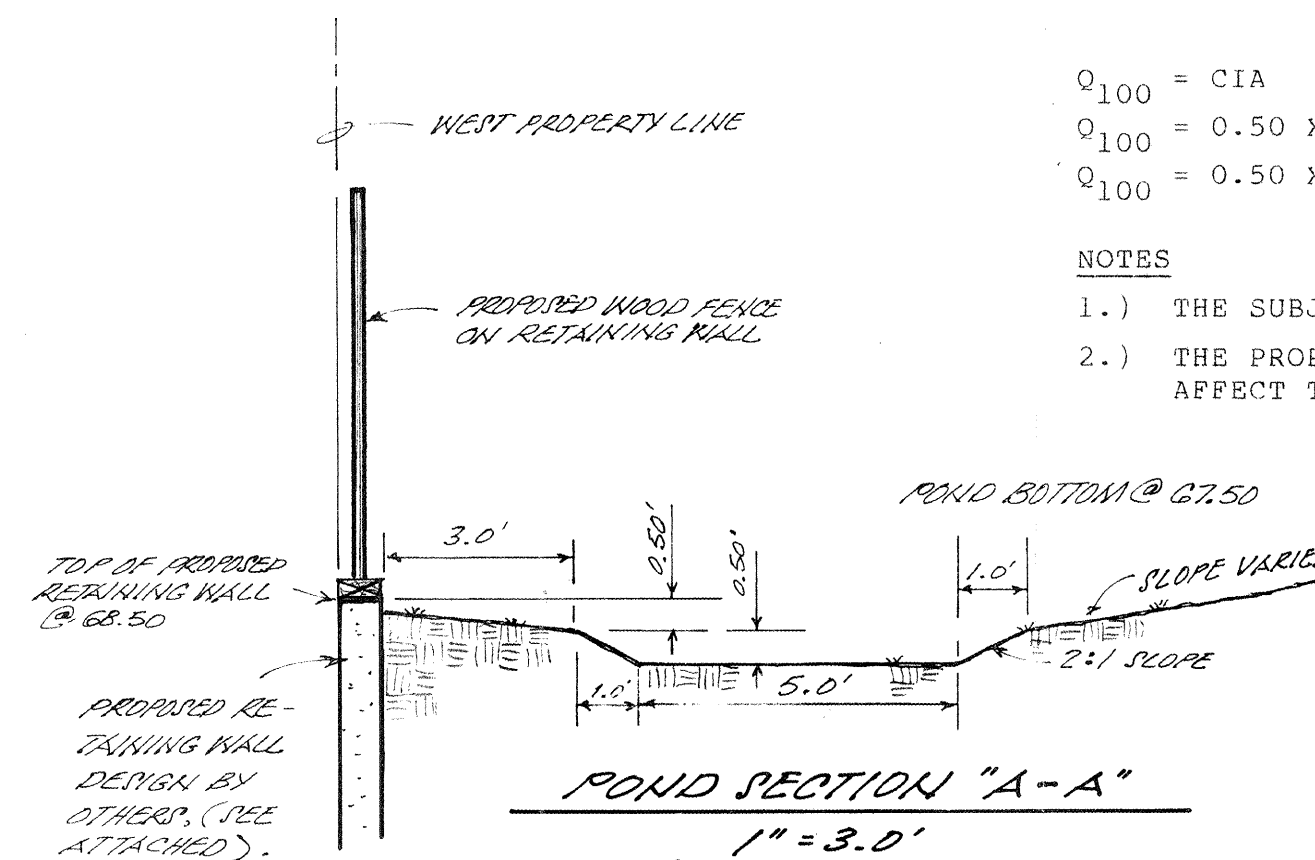
NOTICE TO CONTRACTOR:

- 1.) AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. 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 "CONTRACT DOCUMENTS FOR CITY WIDE UTILITIES AND CASH PAYING NO. 31".
- 3.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE (~~260~~ - 1990), FOR LOCATION OF EXISTING OF SURFACE AND SUBSURFACE UTILITIES.
- 4.) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS; SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR THE PROJECT.

GENERAL NOTES:

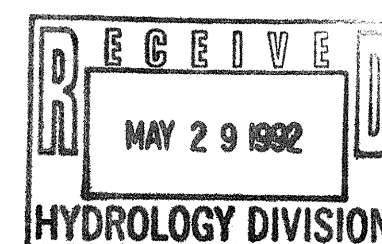
- 1.) NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY.
- 2.) NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD WITHIN THE SUBJECT SITE OTHER THAN THOSE SHOWN ON THE PLAT OF RECORD.
- 3.) REFER TO "ARCHITECTURAL SITE PLAN" FOR FIELD LAYOUT OF THE PROPOSED IMPROVEMENTS.
- 4.) TOPOGRAPHY SURVEY OBTAINED BY "TRANSIT-STADIA" METHOD.

DESIGNATES LIMITS OF PROPOSED LANDSCAPED
AREA (TERRACED OR SLOPED AS DESIRED) THAT
RUNOFF IS TO BE DIVERTED INTO POND AS SHOWN.



APPROVED:

CITY OF ALBUQUERQUE - ZONING DEPT.



DRAINAGE PLAN
FOR HOUSE LOCATED AT
1705 VALDEZ DRIVE N.E.
ALBUQUERQUE, NEW MEXICO
MAY, 1962

