

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 23, 1992

Frank Lovelady Lovelady & Associates 7408 Morrow, NE Albuquerque, New Mexico 87110

RE: REVISED DRAINAGE PLAN FOR AN ADDITION TO MARTIN J. VIGIL BUILDING (J-14/D91) REVISION DATED MARC9, 1992

Dear Mr. Lovelady:

Based on the information provided on your resubmittal of March 9, 1992, revisions as indicated are acceptable.

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

Cordially,

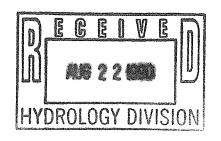
Bernie J. Montoya, CVE. Engineering Assistant

xc: Alan Martinez

BJM/bsj (WP+2086)

PUBLIC WORKS DEPARTMENT

LOVELADY & ASSOCIATES
7408 Morrow Ave. N.E.
Albuquerque, NM 87110
(505) 883-7973



Fred J. Aguirre, P.E. Hydrologist Hydrology Development Section City of Albuquerque P.O. Box 1293 Albuquerque, NM 87103

RE: DRAINAGE PLAN FOR AN ADDITION TO MARTIN J. VIGIL BUILDING. (J-14/D-91) ENGINEER'S STAMP DATED JULY 31, 1990.

Dear Mr. Aguirre:

With regard to your letter of August 10, 1990, increasing the slope to 0.0050 ft./ft. will require the finish floor to be approximately 0.4' higher which the owner feels is unacceptably high. From elevations taken in the alley, it is evident that runoff from the site would not be conveyed by the alley to the closest public street. In discussion with Bernie Monyoya, it was agreed that a grade of 0.0020 ft./ft. would be acceptable on a project of this scale provided the owner holds the City of Albuquerque harmless in the event that construction results in "bird baths" or in the event that other damages result from the use of a substandard slope.

Therefore, the owner has agreed to sign the hold harmless statement below. If you have any questions or require additional information, please do not hesitate to contact me.

Sincerely,

Frank D. Lovelady, P.E.

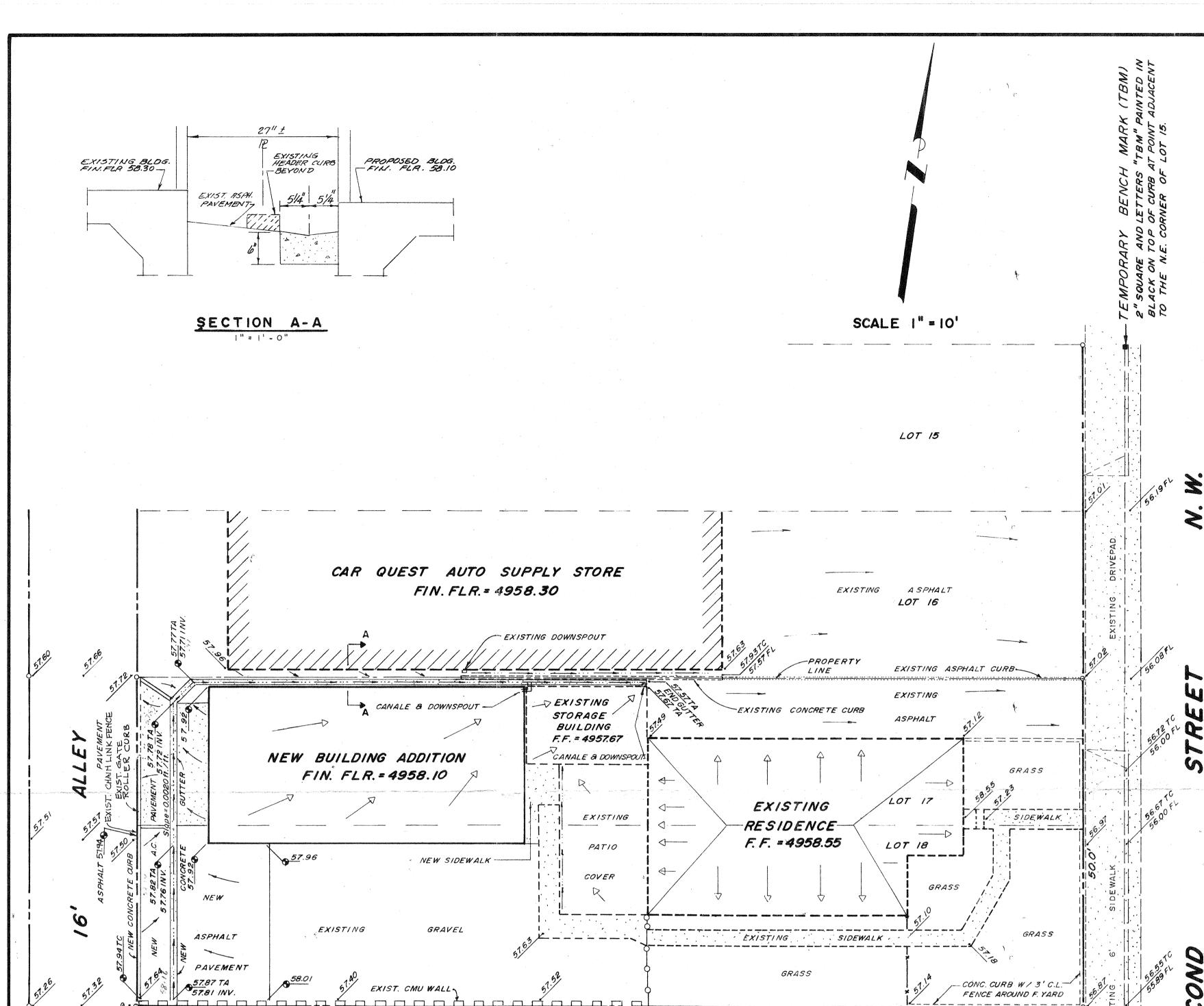
HOLD-HARMLESS STATEMENT:

I, Martin J. Vigil, owner of property at 1315 Second Street N.W., hold the City of Albuquerque harmless for any and all damages that may be sustained by my property as a result of constructing the drainage swale at a substandard slope.

Martin J. Vigi

Date

PROJECT TITLE: MARTIN J. VIGIL	DR _zone atlas/drng. file #:_J 4/D-9
LEGAL DESCRIPTION: LOTS 17 \$18	BLOCK 9 PARIS ADDITION.
CITY ADDRESS:	
ENGINEERING FIRM: Lovelady & Associ	ates CONTACT: Frank Lovelady
ADDRESS: 7408 Morrow Ave. NE 87	110 PHONE: 883-7973
· · · · · · · · · · · · · · · · · · ·	CONTACT: MARTIN J. VIGIL
ADDRESS 1315 SECOND ST	NW PHONE: 247-2969
ARCHITECT:	CONTACT:
ADDRESS:	PHONE:
SURVEYOR:	CONTACT:
ADDRESS:	PHONE:
CONTRACTOR:	CONTACT:
ADDRESS:	PHONE:
PRE-DESIGN MEETING:	
XYES	DRB NO
NO	EPC NO
COPY OF CONFERENCE RECAP SHEET PROVIDED	
TYPE OF SUBMITTAL:	
DRAINAGE REPORT	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE PLAN	SKETCH PLAT APPROVAL
CONCEPTUAL GRADING & DRAIN. PL	PRELIMINARY PLAT APPROVAL
GRADING PLAN	ANSITE DEVELOPMENT PLAN APPROVAL FINAL PLAT APPROVAL
BROSION CONTROL PLANS 9 1992	BUILDING PERMIT APPROVAL
ENGINEER'S CERTIFICATION	
	CERTIFICATE OF OCCUPANCY APPROVAL
FOR DRIVEWAY FOR HEW	
DATE SUBMITTED: MARCH 9, 1992	
BY: Frank D. Loveled	OTHER (SPECIFY)
Frank D. Lovelady, P.E.	103



144.0'

PROPERTY LINE

EXISTING

LOT 19

ASPHALT

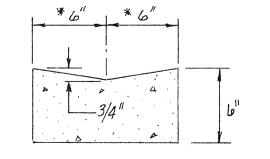
PRE-DESIGN CONFERENCE FINDINGS: (MEETING OF JULY 16, 1990)

ASPHALT

MAMLOCKSMITH

/ FIN.FLR.=4958.11

- 1. PROPOSING BUILDING ADDITION IN EXCESS OF 1000 SF AND 2 PAVED PARKING SPACES ON M-1 ZONING.
- 2. A DRAINAGE PLAN IS REQUIRED FOR PROPOSED AND EXISTING IMPROVEMENTS PER D.P.M. CHECKLIST PRIOR TO BUILDING PERMIT APPROVAL.

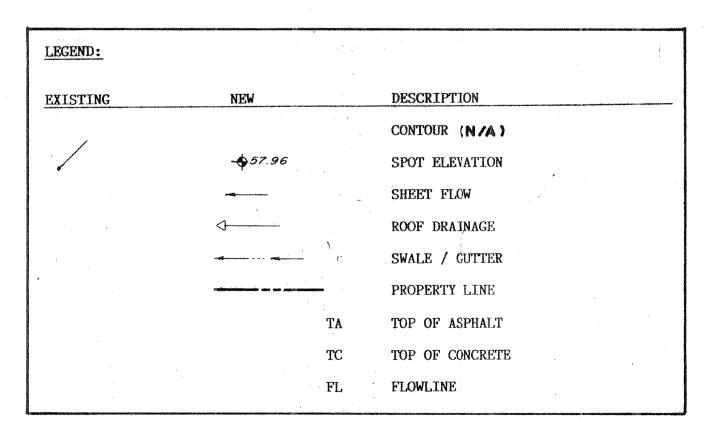


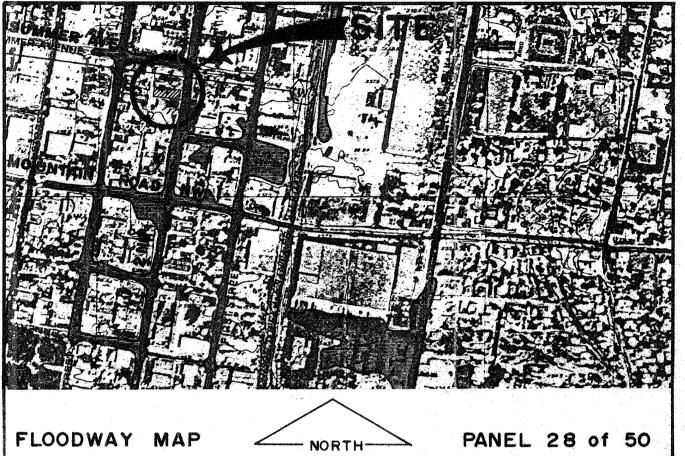
* 5 /4" NEXT TO BUILDING

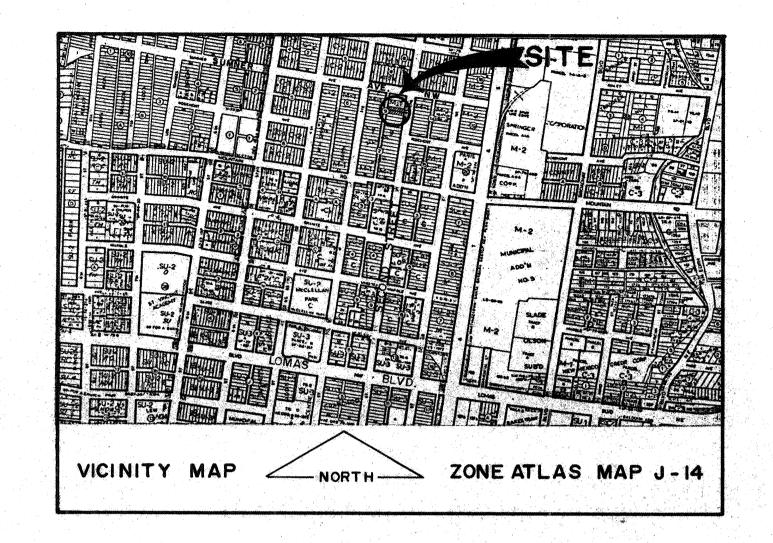
EXISTING

CONCRETE GUTTER DETAIL

1-1/2" = 1' - 0"







DRAINAGE CALCULATIONS

EXISTING DRAINAGE CONDITIONS

ABSORBED WHERE IT FALLS WITH POSSIBLY SOME OF IT RUNNING ONTO THE LAWN AREA WHERE IT IS ABSORBED.

SOIL INFORMATION:

(REFER TO SOIL SURVEY OF BERNALILLO COUNTY, JUNE 1977.) SOIL IS Gk, GLENDALE LOAM, HYDROLOGIC SOIL GROUP "B".

FLOOD ZONE:

THE FLOOD INSURANCE RATE MAP (FIRM), PANEL 28 OF 50, SHOWS THAT THERE IS AN AO-1 FLOOD ZONE IN SECOND STREET. IT IS CONFINED TO THE RIGHT-OF-WAY. THE FINISH FLOOR ELEVATION OF THE PROPOSED ADDITION HAS BEEN SET 2.02' ABOVE THE FLOWLINE ELEVATION ADJACENT TO THE NE CORNER OF LOT 17 TO ENSURE THAT THE FINISH FLOOR WILL BE A MINIMUM OF 1.0' ABOVE THE 100-YEAR FLOOD LEVEL IN SECOND STREET.

RAINFALL, 100-YEAR, 6-HOUR:

(REFER TO D.P.M., PLATE 22.2 D-1.) $R_6 = 2.2$ INCHES

TIME OF CONCENTRATION:

(USE TEN (10) MINUTES, MINIMUM TIME OF CONCENTRATION.)

RAINFALL INTENSITY:

S

 $I = R_6 \times 6.84 \times Tc^{-0.51} = 2.2 \times 6.84 \times 10^{-0.51} = 4.65 \text{ INCHES PER HOUR.}$

SITE IMPERVIOUSNESS:		DIRECT	AREAS	(SQ.FT.)
SURFACE TYPE "C"	"CN"	RUNOFF	EXISTING	DEVELOPED
BUILDING 0.90	98	2.00	1759	2911
ASPHALT/CONCRETE 0.95	98	2.00	936	1938
GRAVEL OR DIRT 0.40	82	0.80	3299	1145
LAWNS/LANDSCAPING 0.25	61	0.15	1206	1206
TOTALS			7200	7200

$Q_{100} = CIA = 0.73 \times 4.65 \times 0.1653 = 0.56 \text{ CFS}$ $Q_{10} = 0.657 \times 0.56 = 0.37 \text{ CFS}$

EXISTING CONDITIONS:

 $V_{100} = \frac{(2695 \text{ X } 2.0 + 3299 \text{ X } 0.80 + 1206 \text{ X } 0.15)}{12} = 684 \text{ CF}$

$V_{10} = 0.657 \text{ X } 684 = 449 \text{ CF}$

 $V_{100} = \frac{(4849 \times 2.0 + 1145 \times 0.80 + 1206 \times 0.15)}{12} = 900 \text{ CF}$

 $V_{10} = 0.657 \text{ X } 900 = 591 \text{ CF}$

ANALYSIS OF DOWNSTREAM CAPACITY:

DUE TO THE FLOOD ZONE IN SECOND STREET, AN ANALYSIS OF DOWNSTREAM CAPACITY IS APPROPRIATE. FIRST, THE SITE IS AN "INFILL" SITE. THE ENTIRE AREA WHERE THE SITE IS LOCATED IS AN ESTABLISHED, DEVELOPED AREA. SECOND, THE AMOUNT OF ADDITIONAL RUNOFF THAT THE PROPOSED DEVELOPMENT WILL GENERATE IS VERY MINIMAL, ONLY 0.12 CFS. THIRD, THERE ARE INLETS AT ALL FOUR CORNERS OF MOUNT-AIN ROAD AND SECOND STREET WHICH ARE DRAINED BY A 24" RCP IN MOUNTAIN ROAD. ONE BLOCK WEST THE 24" RCP EMPTIES INTO A 48" RCP IN THIRD STREET.

EROSION CONTROL NOTES:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FOLLOWING:

- NO SEDIMENT-BEARING WATER SHALL BE ALLOWED TO DISCHARGE FROM THE SITE
- DURING GRADING OPERATIONS AND UNTIL THE PROJECT HAS BEEN COMPLETED, ALL ADJACENT PROPERTY, RIGHTS-OF-WAY, AND EASEMENTS SHALL BE PROTECTED FROM FLOODING BY RUNOFF FROM THE SITE.
- SHOULD THE CONTRACTOR FAIL TO PREVENT SEDIMENT BEARING WATER FROM ENTER-ING PUBLIC RIGHT-OF-WAY, HE SHALL PROMPTLY REMOVE FROM THE PUBLIC RIGHT-OF-WAY ANY AND ALL SEDIMENT ORIGINATING FROM THE SITE.
- CONTROL OF SEDIMENT-LADEN WATERS WILL BE ACCOMPLISHED BY USE OF A COM-PACTED EARTH BERM OF ADEQUATE HEIGHT. THE BERM SHALL BE LOCATED ALONG THE DOWNSTREAM PERIMITER OF THE PROPERTY.

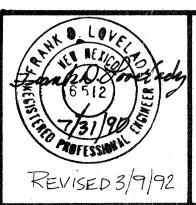
LEGAL DESCRIPTION:

A CERTAIN TRACT OR PARCEL OF LAND SITUATED WITHIN THE LEGAL LIMITS OF THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO: BEING MORE PARTICULARLY DESCRIBED AS: LOTS 17 AND 18, BLOCK 9, OF THE PARIS ADDITION TO THE CITY OF ALBUQUERQUE, NEW MEXICO.

BENCH MARK:

STANDARD USC & GS BRASS CAP STAMPED "L-224 RESET" SET IN THE TOP OF TRAFFIC WARNING LIGHT AT THE INTERSECTION OF MOUNTAIN ROAD NW AND THE A.T. & S.F. RAILROAD TRACK, M.S.L. ELEVATION = 4958,560 FEET.

MAR 9 1992



GRADING AND DRAINAGE PLAN NEW BUILDING ADDITION FOR

MARTIN J. VIGIL 1315 SECOND STREET N.W. ALBUQUERQUE, NEW MEXICO