

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

October 4, 1990

R.G. Lee Lee Engineering 8225 Connecticut, NE Albuquerque, New Mexico 87110

> RE: DRAINAGE PLAN FOR MELLOY NISSAN (F-18/D52) RECEIVED SEPTEMBER 17, 1990 STAMP DATED SEPTEMBER 17, 1990

Dear Mr. Lee:

Based on the information provided on your submittal of September 17, 1990, listed are some items which must be addressed prior to approval.

- 1. Please check your direct runoff value again.
- 2. Your plan drawing indicates that you are doing work outside the property limits.
- 3. There is a conflict between your contour lines and what you indicate as easement line on your legend.
- 4. You may want to check with Traffic Engineering they may require a drive pad within the property limits.
- If they do not, is there an easement that allows Tract A-2-C to exit through the adjacent property?
- 6. Some of the spot elevation numbers are not clear enough to read.
- If I can be of further assistance, please feel free to call me at 768-2650.

Cordially,

Hydrologist

BJM:FJA/bsj (WP + 2204)

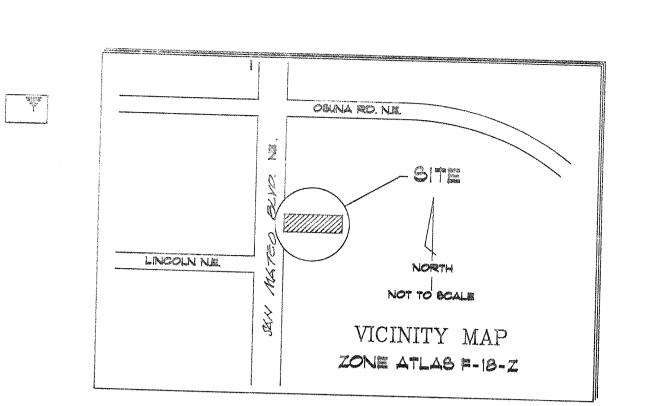
PUBLIC WORKS DEPARTMENT

Walter H. Nickerson, Jr., P.E. Assistant Director Public Works **ENGINEERING GROUP**

Telephone (505) 768-2500

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Mellog Klisson	_ ZONE ATLAS/DRNG. FILE #: F18.		
LEGAL DESCRIPTION: Tract A-2-c, Sp	anish Land Company Subdivision		
CITY ADDRESS:			
ENGINEERING FIRM: 18 LEE BUGINE			
ADDRESS: 8225 Connecticut	NE PHONE: 299-247/		
OWNER: Melloy Missan	CONTACT: Robert Melloy		
ADDRESS: 707 Lomes N.E.	PHONE: 265-8721		
ARCHITECT: Miller & Associates	CONTACT: Jan Miller		
ADDRESS: 2823 Richmond Dr 1			
SURVEYOR:	CONTACT:		
ADDRESS:	PHONE:		
CONTRACTOR:	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 CONTROL PLAN ENGINEER'S CERTIFICATION	CHECK TYPE OF APPROVAL SOUGHT: SKETCH PLAT APPROVAL PRELIMINARY PLAT APPROVAL SITE DEVELOPMENT PLAN APPROVAL FINAL PLAT APPROVAL BUILDING PERMIT APPROVAL FOUNDATION PERMIT APPROVAL CERTIFICATE OF OCCUPANCY APPROVAL ROUGH GRADING PERMIT APPROVAL GRADING/PAVING PERMIT APPROVAL		
DATE SUBMITTED: HENROLOGIO DIVISIONI	OTHER(SPECIFY)		
BY: HERMAN Hrod	•		



DRAINAGE CALCULATIONS

SQ.FT ACRES

8464 0.1943

. REFERENCES: A. CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL (DPM) VOL. 2 DESIGN CRITERIA, CHAPTER 22: DRAINAGE, FLOOD CONTROL, AND EROSION CONTROL. B. SOIL SURVEY OF BERNALILLO COUNTY AND PARTS OF SANDOVAL AND VALENCIA COUNTIES, NEW MEXICO, UNITED STATES DEPARTMENT OF AGRICULTURAL, SOIL CONSERVATION

C. FLOODWAY, FLOOD BOUNDARY AND FLOODWAY MAP, CITY OF ALBUQUERQUE, NEW MEXICO, PANEL 17 OF 50. D. ZONE ATLAS PAGE F-18-Z

II. GENERAL INFORMATION: A. SOIL TYPE (REF. B, PAGE 21) SOIL TYPE IS GILA LOAM (Gb), HYDROLOGIC SOIL GROUP "B". B. IMPERVIOUSNESS:

÷.	CONCRETE SURFACES ASPHALT SURFACES LANDSCAPING UNDEVELOPED SITE TOTAL "C" FACTOR	0 24650 0 41250 68000	0.0000 0.5659 0.0000 0.9470 1.5611	5507 48209 5820 7 0 68000	0.1264 1.1067 0.1336 0.0000 1.5611
	EXISTING IMPERVIOUS BUILDING ROOF CONCRETE SURFACES	SURFACES	FACTOR 0.90 0.95	AREA 0.0482 0.0000	C X A 0.0434

EXISTING

SQ.FT ACRES

2100 0.0482

0.95 0.0000 0.0000 0.95 0.5659 0.5376 ASPHALT SURFACES LANDSCAPING 0.25 0.0000 0.0000 UNDEVELOPED 0.40 0.9470 0.3788 SITE TOTAL 1.5611 0.9598 EXISTING WEIGHTED "C" FACTOR = 0:61"

PROPOSED IMPERVIOUS SURFACES FACTOR AREA C X A 0.1943 CONCRETE SURFACES 0.1749 0.95 0.1264 ASPHALT SURFACES 0.1201 0.95 1.1067 LANDSCAPING 0.25 0.1336 1.0514 UNDEVELOPED 0.0334 0.40 0.0000 SITE TOTAL 0.0000 1.5611 1.3798

PROPOSED WEIGHTED "C" FACTOR = 0.88

D. 100 YEAR RAINFALL, 6 HOUR, P(6); (SEE REF. A, PLATE 22.2 D-1) = 2.30 INCHES (INTERPOLATION VALUE).

E. TIME OF CONCENTRATION, To: To = 10 MINUTES (USE 10 MINUTES (MINIMUM VALUE) FOR CALCULATIONS. F. RAINFALL INTENSITY, I; (SEE REF. A, PLATE 22.2 D-2) $I = P(6) \times 6.84 \times Tc EXP.(-0.51)$ $= 2.30 \times 6.84 \times 10 \text{ EXP.} (-0.51)$

= 4.86 INCHES

III. PEAK DISCHARGE: (RATIONAL METHOD)
A. EXISTING CONDITION

TYPE OF SURFACES

CONCRETE SURFACES

BUILDING ROOF

 $Q(100) = 0.61 \times 4.86 \times 1.5610$ = 4.67 CFS(REF A, PLATE 22.2D-1)

 $Q(10) = 4.67 \times 0.65$ = 3.07 CFS(REF A, PLATE 22.2D-1) B. PROPOSED CONDITIONS

 $Q(100) = 0.78 \times 4.86 \times 1.5611$ = 5.96 CFS(REF A, PLATE 22.2D-1) $Q(10) = 5.96 \times 0.65$ = 3.91 CFS(REF A, PLATE 22.2D-1)

IV. VOLUME GENERATED (SCS METHOD)

A. 100 YEAR RAINFALL, 6 HOUR, P(6); (DPM) P(6) = 2.30 INCHES (INTERPOLATION VALUE). B. CURVE NUMBER = 88 (REF. A, PLATE 22.2 C-2)
C. DIRECT RUNOFF (Q) IN INCHES = 1.60 D. VOLUME (Q X A \dot{X} 3630) V = 1,900 CU. FT.

WITHIN THE RIGHTS-OF-WAY. THERE ARE NO FLOODING CONDITIONS DOWN

BENCH-MARK INFORMATION

ON-SITE TEMPORARY BENCH-MARK SHOWN HEREON BEING THE NORTH BONNET BOLT OF THE A FIRE HYDRANT LOCATED AT THE SOUTHEAST OF THE PROPERTY BEARS ELEVATION 5214.74 (MSL). REFERENCE TO CITY BENCH-MARK NM-367-1 BEARING ELEVATION 5210.60 (MSL) LOCATED AT THE INTERSECTION OF OSUNA AMD SAN MATEO BLVD. NE.

FLOOD INFORMATION

LEGAL DESCRIPTION

ALBUQ'JERUQUE, NEW MEXICO

SPANISH LAND COMPANY SUBDIVION

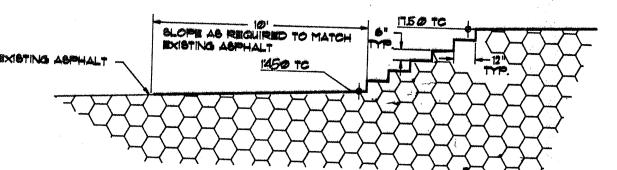
TRACT A-2-C

THIS PROPERTY DOES NOT LAY WITHIN A DESIGNATED 100YR FLOOD PLAIN. SEE

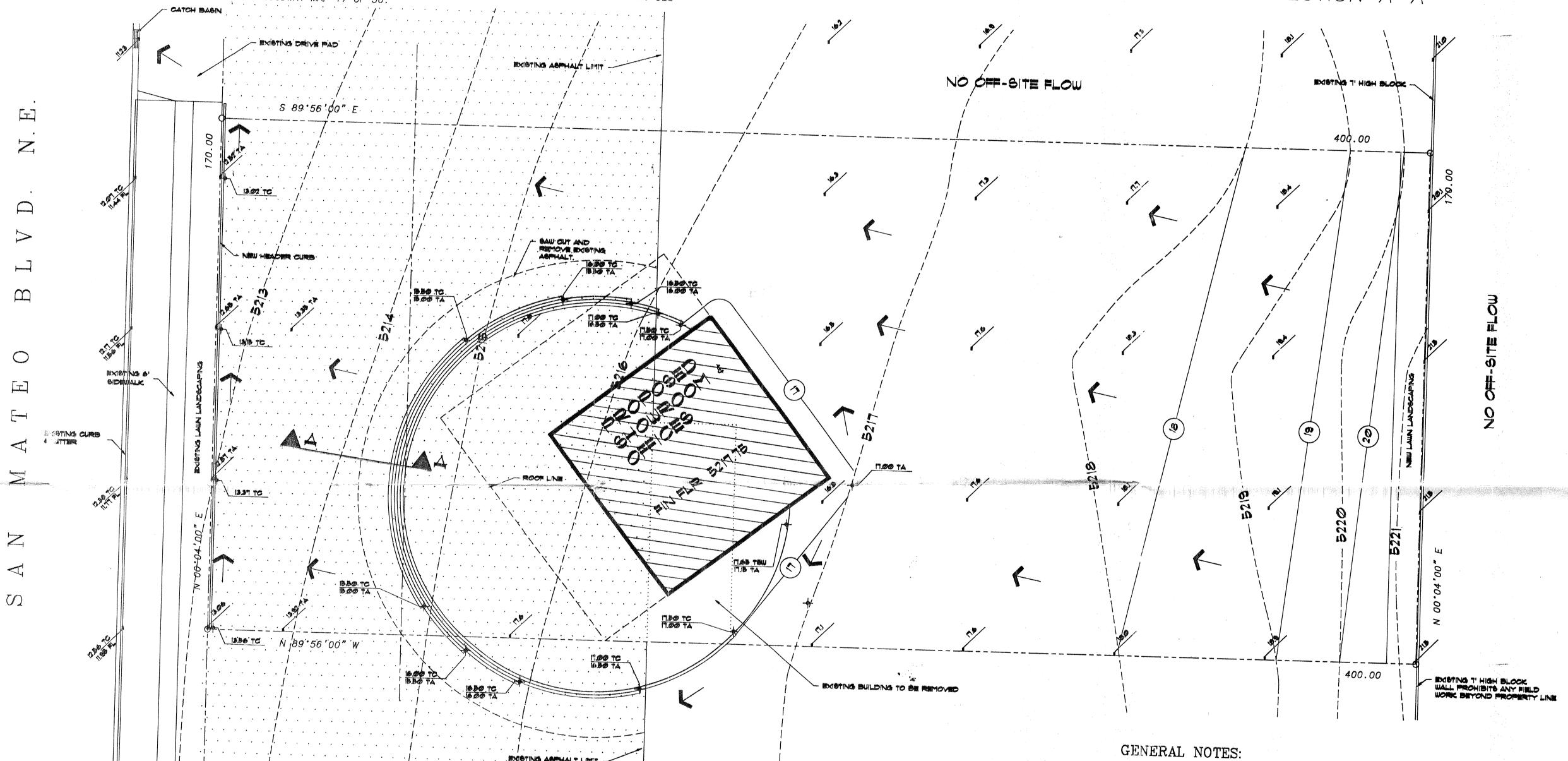
THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT FOR STORM RUNOFF DURING CONSTRUCTION; HE SHALL INSURE THAT THE FOLLOWING

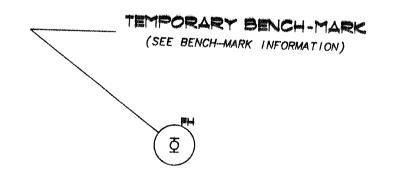
- ADJANCENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY THE MATCH EXISTING ASPHALT CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF TO LEAVE THE SITE AND ENTERING ADJACENT PROPERTY. - ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SITE. NO SEDIMENT

BEARING WATER SHALL BE PERMITTED TO ENTER THE PUBLIC - THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY OR ALL SEDIMENT WITHIN THE PUBLIC STREETS THAT HAVE BEEN ERODED FROM THE SITE AND DEPOSITED THERE.



X-SECTION A-A





ABBREVIATION LEGEND

TOP OF SIDEWALK - TSW TOP OF CONCRETE - TC (CONCRETE CURB OR STEPS) TOP OF ASPHALT - TA DOWN-SPOUT - DS FIRE HYDRANT – FH

SYMBOL LEGEND

EXISTING SPOT ELEVATION

EXISTING CONTOUR DESIGN CONTOUR PROPOSED SPOT ELEVATION PROPERTY LINE EASEMENT LINE FLOW DIRECTION

- A. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 765-1234 FOR
- LOCATION OF EXISTING UTILITIES.

 PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH. ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY SHALL BE
- PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
- FINISH FLOOR ELEVATION SHOWN HEREON REFLECTS THE LEVEL PORTION OF THE BUILDING. SEE ARCHITECTURAL PLANS FOR



SCALE: 1"=20.0'

