DRAINAGE PLAN

THE SUBJECT PROPERTY IS LOCATED ON THE NORTHEAST CORNER OF THE INTERSECTION OF MOUNTAIN ROAD NE AND SAN PEDRO BLVD. NE. AS SHOWN ON PANEL 30 OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD BOUNDARY AND FLOODWAY MAP, THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD AREA.

THE PLANNED IMPROVEMENTS TO THE SUBJECT PROPERTY INCLUDE AN ADDITION TO THE EXISTING BUILDING, NEW LANDSCAPING, AND THE REVISION TO THE ENTRANCE ON SAN PEDRO BLVD. THE PROPERTY HAS THREE (3) EXISTING ENTRANCES (DRIVEPADS). THE TWO (2) ENTERING FROM MOUNTAIN ROAD WILL NOT BE CHANGED. THE DRIVEPAD ENTERING THE SITE FROM SAN PEDRO WILL BE REMOVED AND REPLACED WITH A NEW PRIVATE ENTRANCE (SEE PLAN). OTHER THAN THE ASPHALT REMOVAL TO ACCOMPLISH THE CONSTRUCTION OF THE ADDITION AND NEW LANDSCAPING. ALL EXISTING ASPHALT IS TO REMAIN IN PLACE INSOFAR AS POSSIBLE. MINOR REMOVAL AND REPLACEMENT MAY BE REQUIRED TO FACILITATE DESIRED DRAINAGE PATTERNS.

THIS PLAN CONSIDERS THIS SITE AND IN-FILL SITE AND AS SUCH, DISCHARGES ITS RUNOFF TO THE EXISITING CITY STORM SEWER FACILITIES. (NOTE THE NET RESULT OF THE PROPOSED IMPROVEMENTS IS A REDUCTION OF BOTH VOLUMETRIC RUNOFF AND PEAK DISCHARGE.

THE TOPOGRAPHY SHOWN HEREON WAS PROVIDED BY RIO GRANDE SURVEYING FROM A FIELD SURVEY PERFORMED ON FEBRUARY 5. 1995. A SUBSEQUENT FIELD INSPECTION PERFORMED BY THIS OFFICE REVEALED THAT ALL THE INFORMATION SHOWN IS CONSISTANT WITH THE ACTUAL CONDITIONS THAT EXIST IN THE FIELD.

NOTE: BOTH CURB RETURNS FOR PRIVATE ENTRANCE ARE COMPOUND

CURVE DATA CURB NORTH:

 $\Delta = 128'17'39''$ $\Delta = 51^{\circ}10'31''$ R = 5.00R = 25.00L = 11.20L = 22.33

0

PEDR

CURVE DATA CURB SOUTH:

 $\Delta = 31^{\circ}17^{\circ}36^{\circ}$ $\Delta = 57^{\circ}05^{\circ}10^{\circ}$ R = 10.00R = 25.00L = 5.46L = 24.91

(VALUES ARE TO FACE OF CURB)

CONSTRUCT NEW ENTRANCE PER C.O.A. STD. DETAIL DWG. 2426

GENERAL LEGEND

PROPOSED SPOT ELEVATION

FLOW DIRECTION ARROW

PROPOSED CONCRETE

FLOWLINE ELEVATION

TOP OF CURB ELEVATION

TOP OF WALL ELEVATION

TOP OF SIDEWALK ELEVATION

EXISTING CONTOUR

FLOWLINE

0.515 AC. = 90.7%

PROPOSED CONTOUR

CONTRACTOR TO SURVEY AND RECORD EXISTING GUTTER ELEVATIONS. INSTALL NEW VALLEY GUTTER TO SAME. REMOVE EXISTING SIDEWALK, CURB AND GUTTER TO NEAREST JOINT (FULL STONE).

HEADER -MATCH — EXISTING CURB NOTE: CONTRACTOR TO VERIFY ASPHALT ELEVATIONS AT. ENTRANCE. NOTIFY ENGINEER IF DESIRED FLOW PATTERNS REQUIRE THE REMOVAL AND EXISTING -- NEW ADDITION REPLACEMENT OF AND EXISTING ASPHALT. **EXISTING** FF=5265.62 NEW MEDIAN C&G *67.44 C.O.A. STD. DWG 2415 - EXISTING PAVEMENT HEADER -(TO REMAIN) NEW ADDITION . FF=5265.62 EXISTING DRIVEPAD (TO REMAIN) HEADER CURB PROJECT BENCH MARK:

GENERAL NOTES

BENCH MARK

PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SOON AS POSSIBLE TO RESOLVE THE CONFLICT WITH A MINIMUM AMOUNT OF DELAY.

NORTH BONNET BOLT OF

ELEVATION = 5265.75

FIRE HYDRANT.

- ALL WORK ON THIS PLAN SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL. STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 3. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE LOCATION ONLY, AND LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE UTILITY OWNER OR FROM EXISTING PLANS, AND THIS INFORMATION MAY BE INCOMPLETE. OR OBSOLETE AT THE TIME OF CONSTRUCTION. THE ENGINEER HAS NOT UNDERTAKEN ANY FIELD VERIFICATION OF THESE LOCATIONS, LINE SIZES OR MATERIAL TYPE, MAKES NO REPRESENTATION THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE OR UNDERGROUND INSTALLATION IN OR NEAR THE AREA IN ADVANCE OF AND DURING ANY EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES AND UNDERGROUND FACILITIES. IN PLANNING AND CONDUCTING EXCAVATIONS, THE CONTRACTOR SHALL COMPLY WITH ALL STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
- THE CONTRACTOR SHALL INSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHTS-OF-WAY OR ONTO PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AND BY WETTING THE SOIL TO KEEP IT FROM BLOWING.
- THE CONTRACTOR SHALL OBTAIN ANY AND ALL PERMITS REQUIRED BY BERNALILLO COUNTY FOR THE COMPLETION OF THE WORK PRIOR TO BEGINNING CONSTRUCTION.

CITY OF ALBUQUERQUE CONTROL STATION 17-J18.

ALUMINUM CAP ON THE CURB IN THE NORTHWEST

QUADRANT, INTERSECTION OF LOMAS BLVD. AND

SAN PEDRO BLVD. NORTHEAST.

ELEVATION = 5273.53

LEGAL DESCRIPTION

LOTS NUMBERED ONE (1) AND TWO (2) AND THE SOUTHERLY THIRTY FEET OF LOT NUMBERED THREE (3) IN BLOCK NUMBERED SEVENTEEN (17) OF THE FREDERICK FARR ADDITION TO THE CITY OF ALBUQUERQUE, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE MAP OF SAID ADDTION, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON OCTOBER 16, 1947.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AND ALL

7. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR PERMIT.

8. TWO WORKING DAYS PRIOR TO AN EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE A 260-1990 FOR LOCATION OF EXISTING UTILITIES.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

10. BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.

11. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

NAME	DATE
HYDROLOGY	
INSPECTOR	
A.C.E./FIELD	

CALCULATIONS

THE FOLLOWING CALCULATIONS WERE DEVELOPED USING THE CITY OF ALBUQUERQUE DPM SECTION 22.2

SITE CHARACTERISTICS: SITE LOCATION: ZONE 3 PRECIPITATION: P = 2.60 inches

LAND TREATMENT: UNCOMPACTED SOIL - TREATMENT A LANDSCAPE - TREATMENT B COMPACTED SOIL - TREATMENT C BUILDINGS & PAVING - TREATMENT D

EXCESS PRECIPITATION: TREATMENT A E = 0.66 inches TREATMENT B E = 0.92 inches TREATMENT C E = 1.29 inches TREATMENT D E = 2.36 inches

PEAK DISCHARGE: TREATMENT A = 1.87 cfs/gcre TREATMENT B = 2.60 cfs/qcreTREATMENT C = 3.45 cfs/acreTREATMENT D = 5.02 cfs/qcre

TOTAL AREA

TREATMENT A

TREATMENT B

TREATMENT C

TREATMENT D

EXISTING

PROPOSED = 0.568 AC.= 0.000 AC. = 0.0%0.000 AC. = 0.0%= 0.041 AC. = 7.2%0.053 AC. = 9.3%= 0.000 AC. = 0.0%0.000 AC. = 0.0%

ONSITE - EXCESS PRECIPITATION & VOLUMETRIC RUNOFF: **EXISTING RUNOFF:**

WEIGHTED E = [(0.92)(0.041) + (2.36)(0.527)]/0.568= 2.26 inches

= 0.527 AC. = 92.8%

V100-6hr = (2.26)(0.568)/12 = 0.107 acre ft = 4,660 cf

DEVELOPED RUNOFF: WEIGHTED E = [(0.92)(0.053) + (2.36)(0.515)]/0.568= 2.23 inches

V100-6hr = (2.23)(0.568)/12 = 0.106 acre ft = 4,620 cf ONSITE - PEAK DISCHARGE:

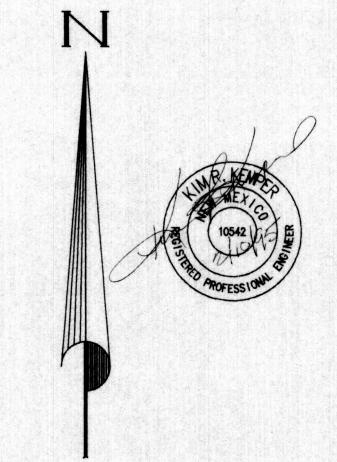
EXISTING DISCHARGE: Q100 = (2.60)(0.041) + (5.02)(0.527) = 2.75 cfsDEVELOPED DISCHARGE: Q100 = (2.60)(0.053) + (5.02)(0.515) = 2.72 cfs

RESULTS:

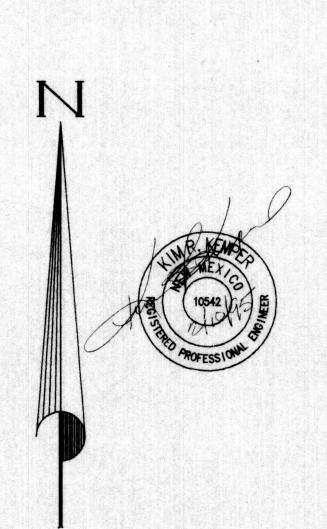
DEVELOPED VOLUMETRIC RUNOFF:

4,620 - 4,660 = 40 cfs DECREASE IN RUNOFF VOLUME DEVELOPED PEAK DISCHARGE:

2.72 - 2.75 = 0.03 cfs DECREASE IN PEAK DISCHARGE



SCALE: 1' = 20'



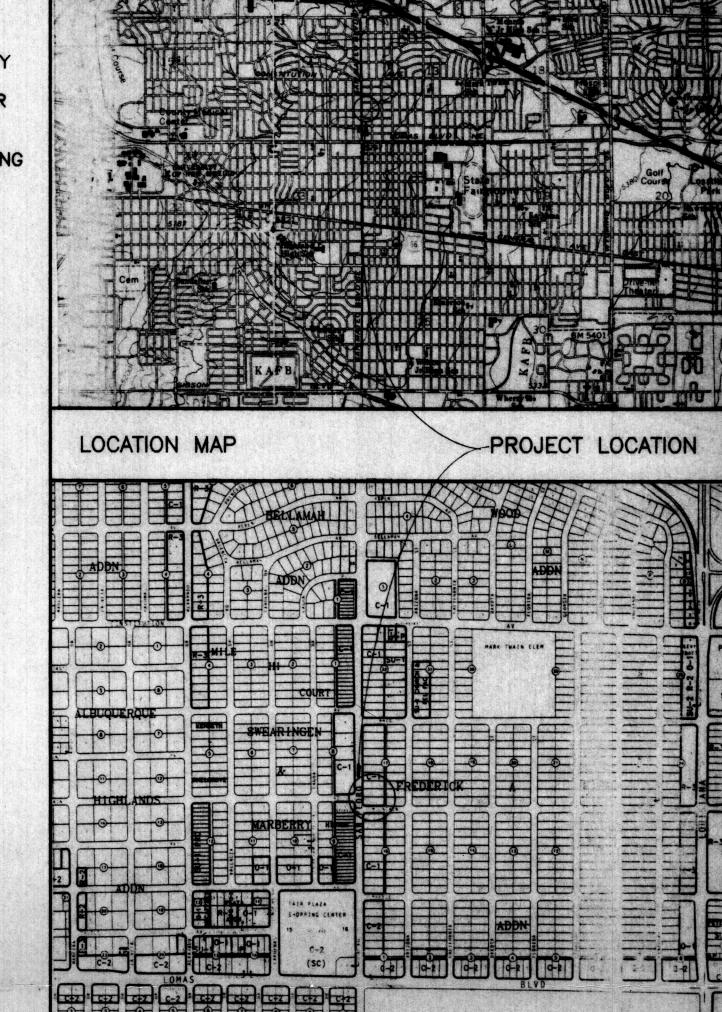


EXISTING DRIVEPAD

CURRENT UPDATES.

(TO REMAIN)

MOUNTAIN ROAD NE



FLOOD BOUNDARY MAP

ZONE MAP

PROJECT LOCATION

J-18

CHRISTY MAE'S RESTAURANT GRADING AND DRAINAGE PLAN

CONSULTING ENGINEERS

3700 COORS RD. N.W. • ALBUQUERQUE, NEW MEXICO 87120 • (505) 831-4520 Checked KRK Designed KRK Drawn SF Date FEBRUARY 1995 CHRISTY