

DRAINAGE SUMMARY

THE PLANNED IMPROVEMENTS TO THIS SITE CONSIST OF CONSTRUCTING A NEW WAREHOUSE. SOME MINOR PAVING (SHOWN ON PLAN) WILL BE REQUIRED TO ACHIEVE A SMOOTH TRANSITION TO THE NEW STRUCTURE.

THE TOTAL AREA OF THE PROPOSED ADDITION IS CURRENTLY PAVED. EXISTING RUNOFF FLOWS SOUTH AND EAST OVER A VERY GENTLE SLOPE TO THE RAILROAD RIGHT-OF-WAY ADJACENT TO THE SITE. THERE EXISTS A FEW "LOW SPOTS" IN THE PARKING AREA WHICH APPEAR TO POND SOME WATER SIMPLE DUE TO THE LACK OF GRADE. IN THIS AREA THERE IS NO LONGER ANY ASPHALT SURFACE. ACCORDING TO THE OWNER OF THE SITE, AT ONE TIME UTILITIES WERE INSTALLED IN THIS AREA.

THE PLANNED BUILDING IMPROVEMENT WILL NOT ALTER THE CURRENT DRAINAGE PATTERNS. NOR WILL THESE IMPROVEMENTS CAUSE ANY INCREASE IN VOLUMETRIC RUNOFF OR PEAK DISCHARGE. THE LOCATION OF THE NEW ROOF DRAINS WILL DIRECT RUNOFF TO THE CENTER OF THE SITE WHERE IT WILL THEN FLOW AS IT DID PRIOR TO THE BUILDING CONSTRUCTION.

SITE DATA:

TOTAL AREA OF SITE = 1.07 ACRES

EXISTING BUILDINGS = 16,875 SQUARE FEET

PROPOSED ADDITION = 6,875 SQUARE FEET

EXISTING IMPERVIOUS AREA = 1.02 ACRES

PROPOSED IMPERVIOUS AREA = 1.02 ACRES

DIRT AREA (COMPACTED) = 0.05 ACRES

EXISTING AND PROPOSED VOLUMETRIC RUNOFF AND PEAK DISCHARGE:
(REFERENCE PROPOSED DPM SECTION 22.2 HYDROLOGY)

SITE: ZONE 2
LAND TREATMENT D = 1.02 ACRES
C = 0.05 ACRES
EXCESS PRECIP. D = 2.08 INCHES
C = 1.07 INCHES

WEIGHTED E = $(1.07)(0.05) + (2.08)(1.02) = 2.03$ INCHES

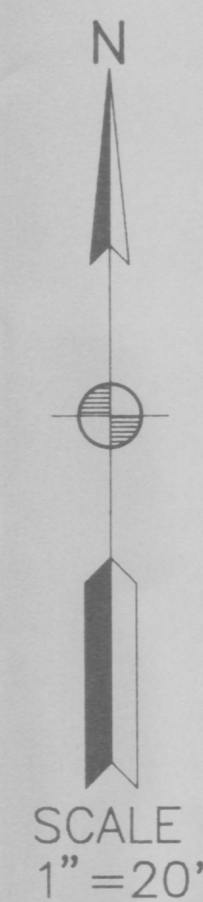
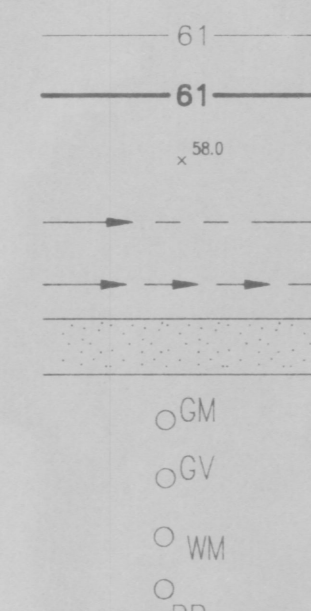
VOLUMETRIC RUNOFF = $(2.03)(1.07)/12 = 0.18$ ACRE-FT = 7,885 CF

PEAK DISCHARGE: D = 4.70 CFS/ACRE
C = 3.02 CFS/ACRE

PEAK DISCHARGE = $(3.02)(0.05) + (4.70)(1.02) = 4.95$ CFS

LEGEND

EXISTING CONTOUR
PROPOSED CONTOUR
EXISTING SPOT ELEVATION
FLOWLINE
FLOW DIRECTION ARROW
PROPOSED ASPHALT
GAS METER
GAS VALVE
WATER METER
POWER POLE



GENERAL NOTES

1. 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.
2. 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.

4. 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.
5. THE CONTRACTOR SHALL OBTAIN ANY AND ALL PERMITS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE COMPLETION OF THE WORK PRIOR TO BEGINNING CONSTRUCTION

BENCH MARK

ACS BENCH MARK 10-J14A LOCATED IN THE SOUTHWEST QUADRANT OF MOUNTAIN AND FOURTH STREET
ELEVATION = 4956.23

LEGAL DESCRIPTION

1416 FIRST STREET N.W.
ALBUQUERQUE, NEW MEXICO
LOT 12A, BLOCK 18, PARIS ADDITION



LOCATION MAP

PROJECT LOCATION



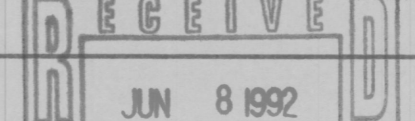
ZONE MAP

J-14-Z



FLOODWAY BOUNDARY MAP

PROJECT LOCATION



KASDORF MANUFACTURING
GRADING AND DRAINAGE PLAN

KEMPER-VAUGHAN
CONSULTING ENGINEERS

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Designed KRK Drawn KRK Checked Sheet 1 of 1
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