

GRADING/DRAINAGE PLAN

THE FOLLOWING ITEMS CONCERNING LOTS 1 AND 2 BRIGHTWOOD ADDITION ARE CONTAINED HEREON:

WAREHOUSE BUILDING AREA = 0.0743 ACRES (3230 SF) = 0.0230 ACRES (1002 SF) = 0.0767 ACRES (3348 SF)

360 = 2.35 IN. 1440 = 2.75 IN. 100A = 3.95 IN.PRECIPITATION:

KCESS PRECIPITATION:		PEAK DISCHARGE:
REATMENT A	0.53 IN.	1.56 CFS/AC.
REATMENT B	0.78 IN.	2.28 CFS/AC.
REATMENT C	1.13 IN.	3.14 CFS/AC.
REATMENT ()	2.12 IN.	4.70 CES/AC

= 0.1740 ACRES (7580 SF)

PROPOSED CONDITIONS: AREA TREATMENT A O AC. O AC. TREATMENT B 0 AC. 0.1510 AC. TREATMENT C

EXISTING EXCESS PRECIPITATION:

WEIGHTED E = [0.53 (0.00) + 0.78 (0.00) + 1.13 (0.1740) + 2.12 (0.00)]/0.1740 AC. = 1.13 IN.

V100 -360 = 1.13 (0.1740) / 12 = 0.0164 ACFT. = 714 CFS

Q100 = 1.58 (0.00) + 2.28 (0.00) + 3.14 (0.1740) + 4.70 (0.00)= 0.0546 CFS

PROPOSED PEAK DISCHARGE CONDITIONS REMAIN THE SAME AS EXISTING PEAK DISCHARGE CONDITIONS.

WEIGHTED E = [0.53 (0.00) + 0.78 (0.00) + 1.13 (0.1510) + 2.12 (0.0230)]/0.1740 AC.

= 1.261 N.

V100 - 360 = 1.216 (.1740) / 12 = 0.0183 ACFT = 800 CFS

V100 -1440 = 0.19 + .0734 X (2.75 - 2.35) / 12 = 0.0024 ACFT = 206 CFS $V100 - 1440 = 0.19 + .0734 \times (3.85 - 2.35) / 12 = 0.0636 ACFT = 2771 CFS$

THE BASIS OF ELEVATIONS IS ACS BENCHMARK 24-J14, THE PUBLISHED ELEVATION OF WHICH IS 4958.365. SAID BENCHMARK IS LOCATED AT THE NORTHEAST QUADRANT OF THE INTERSECTION OF FOURTH ST. NW AND

- 1. THE CONTRACTOR SHALL BE REPONSIBLE FOR MANAGEMENT OF STORM RUN-OFF DURING CONSTRUCTION, HE/SHE SHALL ASSURE THAT THE FOLLOWING MEASURES ARE TAKEN
- 1. ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY TEMPORARY BERMS, DIKES, SWALES, AND OTHER
 TEMPORARY GRADING AS REQUIRED TO PREVENT STORM
 RUN-OFF FROM LEAVING THE SITE AND ENTERING ADJACENT
- 2. ADJACENT PUBLIC RIGHT-OF-WAY SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUN-OFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER THE PUBLIC STREETS.
- 3. DUE TO AN INCREASE IN LANDSCAPED AREA A SUBSTANTIAL REDUCTION IN RUNOFF IS EXPECTED.

EXISTING CONDITIONS

AS SHOWN BY THE VICINITY MAP, THE SITE CONTAINS 0.1755 ACRES AND IS LOCATED WEST OF FIRST STREET THE SITE HAS BEEN GRADED TO DRAIN FROM EAST TO WEST. ACCORDING TO THE FLOOD INSURANCE RATE MAP (ALL ASPHALT). DATED SEPTEMBER 20, 1996, THE SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE.

PROPOSED CONDITIONS

AS SHOWN BY THE GRADING/DRAINAGE PLAN, THE PROJECT WILL CONSIST OF ONE WAREHOUSE BUILDING TOTALLING 3228 SQ. FT. ALONG WITH ASSOCIATED PAVED PARKING AND LANDSCAPED AREAS. A MASTER DRAINAGE PLAN WAS PREPARED BY BOHANNAN-HOUSTON IN FEBRUARY OF 1999. ON-SITE RUN-OFF WILL TRAVEL ON FIRST STREET AND INTO INLETS LOCATED ON THE THE SOUTHWEST CORNER OF 1ST AND ASPEN AVE (TRACT A). THE CALCULATIONS WHICH APPEAR HEREON, ANALYZE THE EXISTING AND PROPOSED CONDITIONS FOR THE 100-YEAR, 6-HOUR EVENT. THE PROCEDURE FOR 40 ACRES AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2 HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL VOLUME II, DESIGN CRITERIA DATED 1997, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUN-OFF GENERATED. PROPOSED PEAK DISCHARGE CONDITIONS REMAIN THE SAME AS EXISTING PEAK DISCHARGE CONDITIONS.

DOWN STREAM CONDITIONS

FREE DISCHARGE TO DRAIN NORTH ON 1ST STREET TO STORM WATER INLET LOCATED ON THE SOUTWEST CORNER OF THE 1ST STREET AND ASPEN AVENUE INTERSECTION.

LOTS 1 AND 2
BRIGHTWOOD ADDITION
SECTION 17, T. 10N., R. 3E, N.M.P.M.
CITY OF ALBUQUERQUE BERNALLIO COUNTY, NEW MEXICO SEPT. 2001

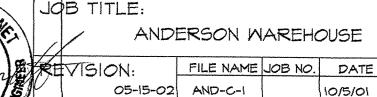
FIRST STREET

EXISTING CONTROURS IN PARENTHESIS.



DESIGN COLLABORATIVE

THE ART AND SCIENCE OF MODERN BUILDINGS



10/5/01 DRAWN BY GRADING AND DRAINAGE PLAN

