

VICINITY MAP J-11

FIRM PANEL 0329E

GRADING/DRAINAGE PLAN

THE FOLLOWING ITEMS CONCERNING TRACT A, BLOCK 1, OF THE PALISADES ADDITION (412 LOMA HERMOSA DR. N.W.) ARE CONTAINED HEREON:

EXISTING CONDITIONS

AS SHOWN BY THE VICINITY MAP, THE SITE IS LOCATED AT THE SOUTHEAST QUADRANT OF THE INTERSECTION OF LOMA HERMOSA DR. N.W. AND LOMA HERMOSA PLACE N.W. THE SITE IS PRESENTLY BEING USED AS A CONTRACTORS YARD. THE SITE CONSISTS OF A 1200 SQ. FT. + BUILDING, 1840 SQ. FT. CONCRETE SLAB, AND 1860 SQ. FT. OF DIRT AREA. THE TERRAIN SLOPES FROM SOUTHEAST TO NORTHWEST. **NO OFF-SITE FLOWS ENTER THE SITE FROM ANY DIRECTION.** ACCORDING TO THE FLOOD INSURANCE RATE MAP, PANEL 0329E, DATED NOVEMBER 19, 2003, **THE SITE IS NOT LOCATED WITH A DESIGNATED FLOOD ZONE.**

PROPOSED CONDITIONS

AS SHOWN BY THE GRADING/DRAINAGE PLAN, THE PROJECT WILL CONSIST OF A 988 + SQ. FT. ADDITION TO THE EXISTING BUILDING. **ALL THE DEVELOPED FLOWS WILL BE ROUTED TO A PROPOSED 12" SIDEWALK CULVERT WHICH INTURN WILL DRAIN INTO LOMA HERMOSA DR. N.W. THE CALCULATIONS CONTAINED HEREON, ANALYZE THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL 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 2, DESIGN CRITERIA DATED 1997, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME GENERATED.**

PROJECT AREA = 0.1137 ac.
ADDITION FOR BARRY HOPKINS CONCRETE INC.
ZONE 1
PRECIPITATION: 360 = 2.20 in.
1440 = 2.65 in.
10day = 3.67 in.

EXCESS PRECIPITATION: PEAK DISCHARGE:
TREATMENT A 0.44 in. 1.29 cfs/ac.
TREATMENT B 0.67 in. 2.03 cfs/ac.
TREATMENT C 0.99 in. 2.87 cfs/ac.
TREATMENT D 1.97 in. 4.37 cfs/ac.

EXISTING CONDITIONS: PROPOSED CONDITIONS:
AREA AREA
TREATMENT A 0 ac. 0 ac.
TREATMENT B 0 ac. 0 ac.
TREATMENT C 0.0423 ac. 0.0211 ac.
TREATMENT D 0.0714 ac. 0.0926 ac.

EXISTING EXCESS PRECIPITATION:

Weighted E = (0.44 x (0.00) + (0.67 x (0.00) + (0.99 x (0.04) + (1.97 x (0.07) / 0.11 ac.
= 1.61 in.
V100-360 = (1.61 x (0.11) / 12 = 0.015211 ac-ft = 663 CF

EXISTING PEAK DISCHARGE:

Q100 = (1.29 x (0.00) + (2.03 x (0.00) + (2.87 x (0.04) + (4.37 x (0.07) = **0.43 CFS**

PROPOSED EXCESS PRECIPITATION:

Weighted E = (0.44 x (0.00) + (0.67 x (0.00) + (0.99 x (0.02) + (1.97 x (0.09) / 0.11 ac.
= 1.79 in.
V100-360 = (1.79 x (0.11) / 12.0 = 0.016943 ac-ft = 738 CF

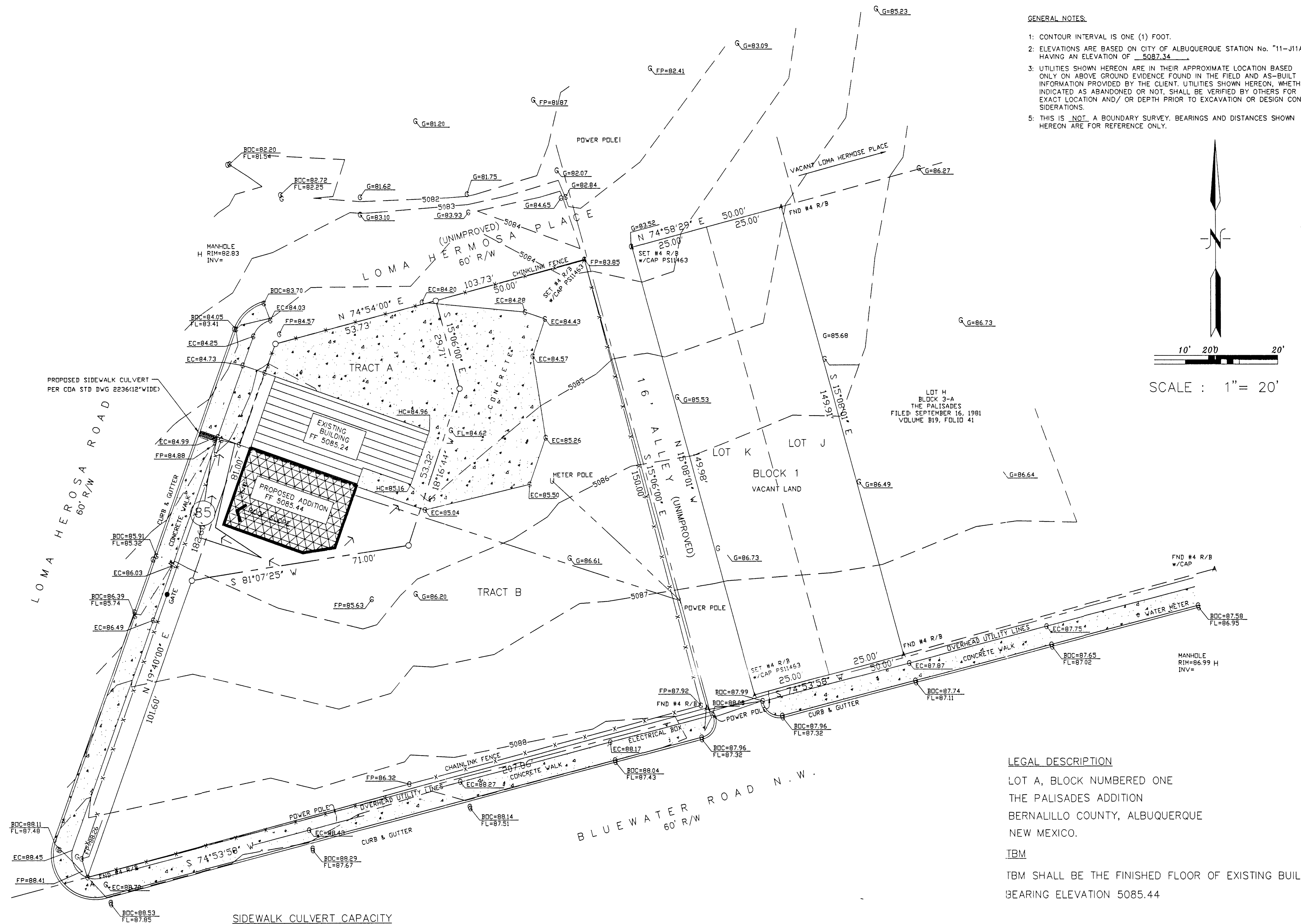
V100-1440 = (0.02 x (0.09) x (2.66 - 2.20) / 12 = 0.020492 ac-ft = 893 CF

V100-10day = (0.02 x (0.09) x (3.67 - 2.20) / 12 = 0.028286 ac-ft = 1232 CF

PROPOSED PEAK DISCHARGE:

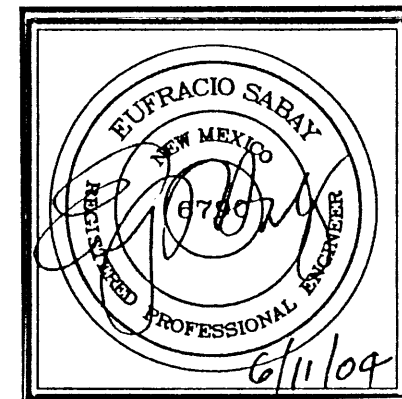
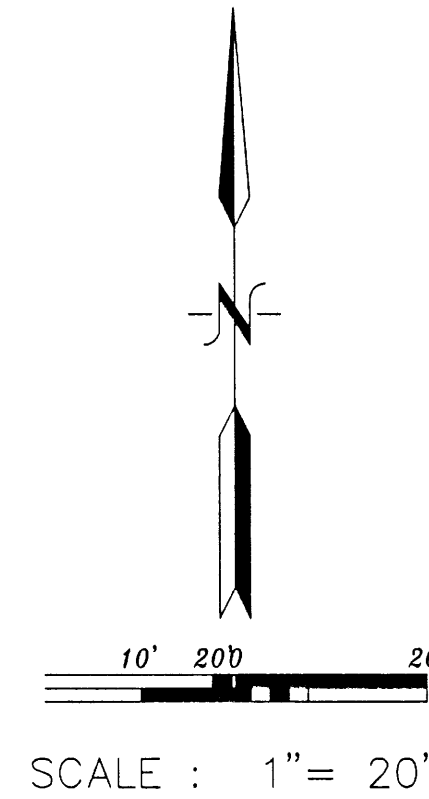
Q100 = (1.29 x (0.00) + (2.03 x (0.00) + (2.87 x (0.02) + (4.37 x (0.09) = **0.47 CFS**

INCREASE 0.47 CFS - 0.43 CFS = 0.040 CFS



GENERAL NOTES

1. CONTOUR INTERVAL IS ONE (1) FOOT.
2. ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE STATION No. "11-J11A", HAVING AN ELEVATION OF 5087.34.
3. UTILITIES SHOWN HEREON ARE IN THEIR APPROXIMATE LOCATION BASED ONLY ON ABOVE GROUND EVIDENCE FOUND IN THE FIELD AND AS-BUILT INFORMATION PROVIDED BY THE CLIENT. UTILITIES SHOWN HEREON, WHETHER INDICATED AS ABANDONED OR NOT, SHALL BE VERIFIED BY OTHERS FOR EXACT LOCATION AND/OR DEPTH PRIOR TO EXCAVATION OR DESIGN CONSIDERATIONS.
5. THIS IS NOT A BOUNDARY SURVEY. BEARINGS AND DISTANCES SHOWN HEREON ARE FOR REFERENCE ONLY.



JOB NO:

DATE: JULY 2004

REVISIONS

Sheet Title
GRADING/DRAINAGE PLAN

Drawn By: HTH/BJM Checked By: BJM

Albuquerque, New Mexico

Project Name
HOPKINS SHOP ADDITION
412 LOMA HERMOSA ROAD N.W.
ALBUQUERQUE, NEW MEXICO

SHEET NO.

CP