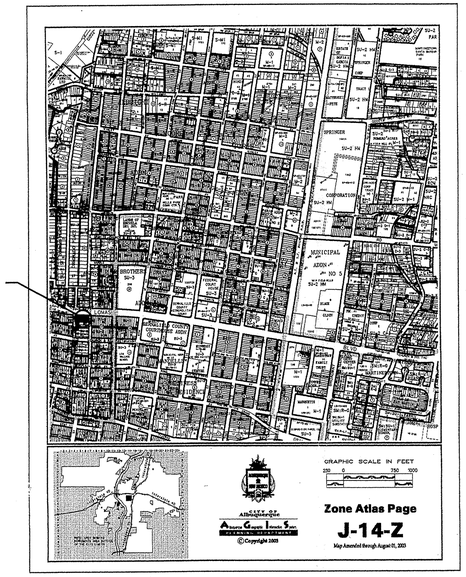
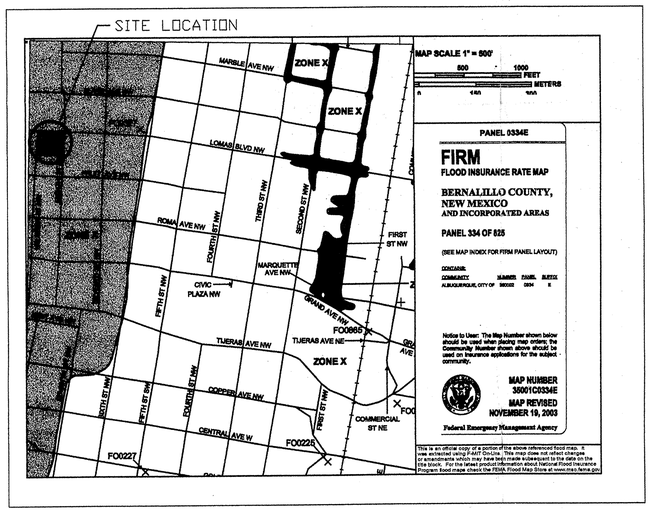




CURVE DATA

C2

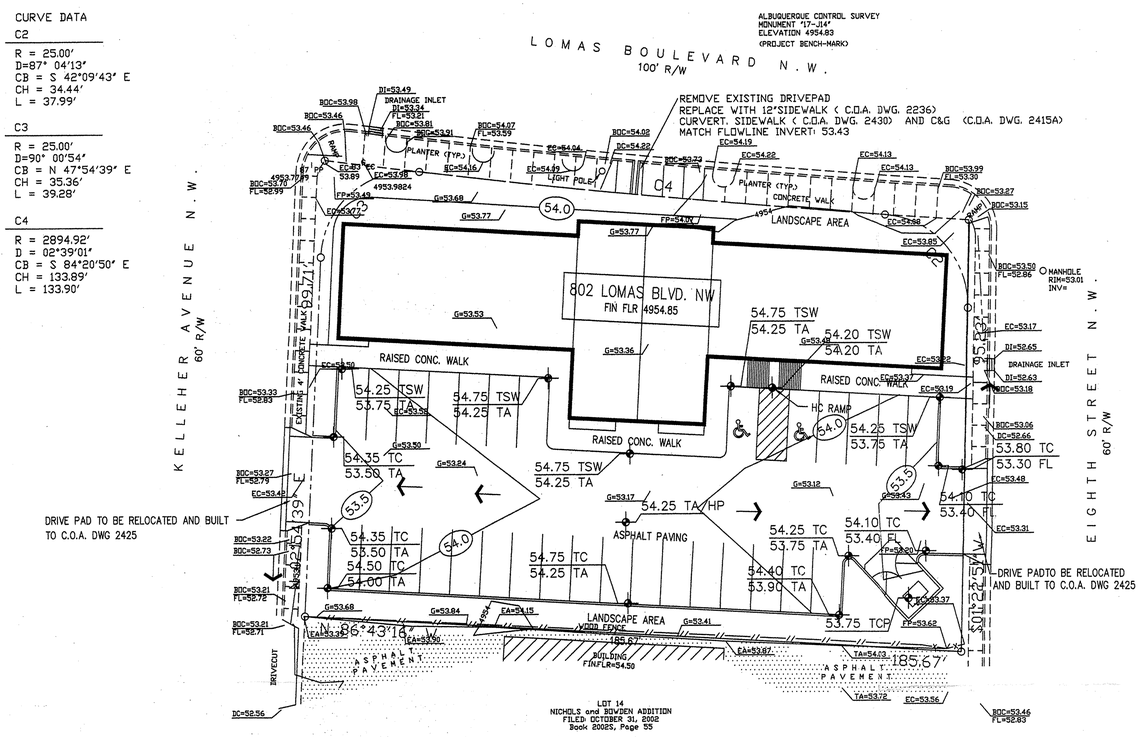
R = 25.00'
D=87° 04'13"
CB = S 42°09'43" E
CH = 34.44'
L = 37.99'

C3

R = 25.00'
D=90° 00'54"
CB = N 47°54'39" E
CH = 35.36'
L = 39.28'

C4

R = 2894.92'
D = 02°39'01"
CB = S 84°20'50" E
CH = 133.89'
L = 133.90'



NOTE TO CONTRACTOR:

1. An excavation/construction permit will be required before beginning any work within the City right-of-way. Approved copy of this plan must be submitted at the time of application for permit.
2. All work detailed in this plan to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with City of Albuquerque Standard Specification for Public Works Construction.
3. Two working days prior to any excavation, contractor must contact line locating Services (760-1990) for locating existing sub-surface utilities.
4. Prior to construction, the contractor shall excavate and verify the horizonal and vertical location of all potential constructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay to the subject project.
5. Backfill compaction shall be according to commercial use or soils report(s) recommendations.
6. 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.
7. Maintenance of this facilities shall be the responsibility of the owner of the property it serves

GRADING/ DRAINAGE PLAN

THE FOLLOWING ITEMS CONCERNING (802 LOMAS BOULEVARD N.W.) LOTS 15, 16, AND 17, OF THE NICHOLS & BOWDEN ADDITION, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO ARE CONTAINED HEREON:

EXISTING CONDITIONS

AS SHOWN BY THE MONITY MAP, THE SITE CONTAINS 0.518 ACRES MORE OR LESS. THE SITE IS LOCATED BETWEEN KELLEHER AVE. N.W. AND 8TH STREET N.W. SOUTH OF LOMAS BLVD. N.W. THE SITE IS VACANT AND FAIRLY FLAT, ACCORDING TO THE FLOOD INSURANCE RATE MAPS, PANEL 0334E, REVISED NOVEMBER 19, 2003, THIS SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE.

PROPOSED CONDITIONS

AS SHOWN BY THE GRADING/DRAINAGE PLAN, THE PROJECT WILL CONSIST OF A 6400 SQ. FT. BUILDING ALONG WITH ASSOCIATED PAVED PARKING AND LANDSCAPED AREAS. THE DEVELOPED FLOWS FROM THE NORTHERLY HALF OF THE PROPOSED BUILDING WILL BE ROUTED NORTH TOWARDS A PROPOSED SIDEWALK CULVERT. THE FLOWS FROM THE SOUTHERLY PORTION OF THE BUILDING WILL BE ROUTED SOUTH ONTO THE PAVED PARKING AREA. FROM THAT POINT THEY WILL BE SPLIT TOWARDS THE EAST AND WEST AND THROUGH DRIVEPADS LOCATED BOTH ON 8TH STREET N.W. AND KELLEOHER AVE. N.W. THE EXISTING DRIVEPADS WILL BE RECONSTRUCTED TO C.O.A. DWG. 2425. THE RUN-OFF WILL EVENTUALLY ENTER DRAIN INLETS LOCATED ON 8TH STREET N.W. AND LOMAS BLVD. N.W.AS SHOWN ON THE PLAN DRAWING. THE CALCULATIONS CONTAINED HEREON, ANALYZE BOTH 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 MANUEL, VOLUME II, DESIGN CRITERIA DATED 1997, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME GENERATED.

PROJECT AREA = 0.518 ac.
802 LOMAS BLVD. N.W.
ZONE 2
PRECIPITATION: 360 = 2.35 in.
1440 = 2.75 in.
10day = 3.95 in.

	EXCESS PRECIPITATION:	PEAK DISCHARGE:
TREATMENT A	0.53 in.	1.56 cfs/ac.
TREATMENT B	0.78 in.	2.28 cfs/ac.
TREATMENT C	1.13 in.	3.14 cfs/ac.
TREATMENT D	2.12 in.	4.70 cfs/ac.

	EXISTING CONDITIONS: AREA	PROPOSED CONDITIONS: AREA
TREATMENT A	0 ac.	0 ac.
TREATMENT B	0 ac.	0.109 ac.
TREATMENT C	0.518 ac.	0 ac.
TREATMENT D	0 ac.	0.409 ac.

EXISTING EXCESS PRECIPITATION:

Weighted E =(0.53)(0.00)+(0.78)(0.00)+(1.13)(0.52)+(2.12)(0.00)/ 0.52 ac.
= 1.13 in.
V100-360 =(1.13)(0.52)/ 12 = 0.048778 ac-ft = 2125 CF

EXISTING PEAK DISCHARGE:

Q100 =(1.56)(0.00)+(2.28)(0.00)+(3.14)(0.52)+(4.70)(0.00)= 1.63 CFS

PROPOSED EXCESS PRECIPITATION:

Weighted E =(0.53)(0.00)+(0.78)(0.11)+(1.13)(0.00)+(2.12)(0.41)/ 0.52 ac.
= 1.84 in.
V100-360 =(1.84)(0.52)/ 12.0 = 0.079342 ac-ft = 3456 CF
V100-1440 =(0.08)+(0.41)(2.75 – 2.35)/ 12 = 0.092975 ac-ft = 4050 CF
V100-10day =(0.08)+(0.41)(3.95 – 2.35)/ 12 = 0.133875 ac-ft = 5832 CF

PROPOSED PEAK DISCHARGE:

Q100 =(1.56)(0.00)+(2.28)(0.11)+(3.14)(0.00)+(4.70)(0.41)= 2.18 CFS
INCREASE 2.18 CFS – 1.63 CFS = 0.55 CFS

LEGAL DESCRIPTION

LOTS NUMBERED 15–A,
NICHOLS AND BOWDEN ADDITION
BERNALILLO COUNTY, ALBUQUERQUE
NEW MEXICO.

BENCHMARK:

ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE STATION No. "17–J14",
HAVING AN ELEVATION OF 4954.83
LOCATED AT THE INTERSECTION OF 8TH STREET AND LOMAS BLVD.
ON THE WEST MEDIAN

EROSION CONTROL MEASURES

1. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT OF STORM RUN–OFF DURING CONSTRUCTION, HE SHALL ASSURE THAT THE FOLLOWING MEASURES ARE
   A) 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 PROPERTY.
   B) 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.
2. 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.

SYMBOL LEGEND

EXISTING CONTOUR — 4954
EXISTING SPOT ELEVATION — 102.5
DESIGN CONTOUR — 54.5
PROPOSED SPOT ELEVATION — 54.50 TC
PROPERTY LINE
EASEMENT LINE
FLOW DIRECTION
EXISTING SPOT ELEVATION
DOWN SPOUT

ABBREVIATION LEGEND

TOP OF CONC PAD	– TCP
TOP OF CURB	– TC
TOP OF ASPHALT	– TA
TOP OF BERM	– TB
BOTTOM OF POND	– BP
FINISHED FLOOR	– FF

BOC = BACK OF CURB
DC = DRIVECUT
DI = DRAINAGE INLET
EA = EDGE OF ASPHALT
EC = EDGE OF CONCRETE
FL = FLOW LINE
FP = FENCE POST
G = GROUND
HP = HIGH POINT

NORTH
0 5' 10' 20' 40'

GRADING & DRAINAGE PLAN

Scale 1" = 20'

APPROVAL	NAME	DATE	TITLE: 802 LOMAS BLVD. N.W.
INSPECTOR			MAP NUMBER: J14

EUFRACIO SAENZ — NEW MEXICO — 8290 — REGISTERED PROFESSIONAL ENGINEER

JOB NO: XXXXXX
DATE: JULY 2005
REVISIONS

HYDROLOGY SECTION

Sheet Title: GRADING & DRAINAGE PLAN
Drawn By: HTH & BJM Checked By: ES

Job Title: 802 LOMAS BLVD. N.W. ALBUQUERQUE, NEW MEXICO

SHEET NO.
GD