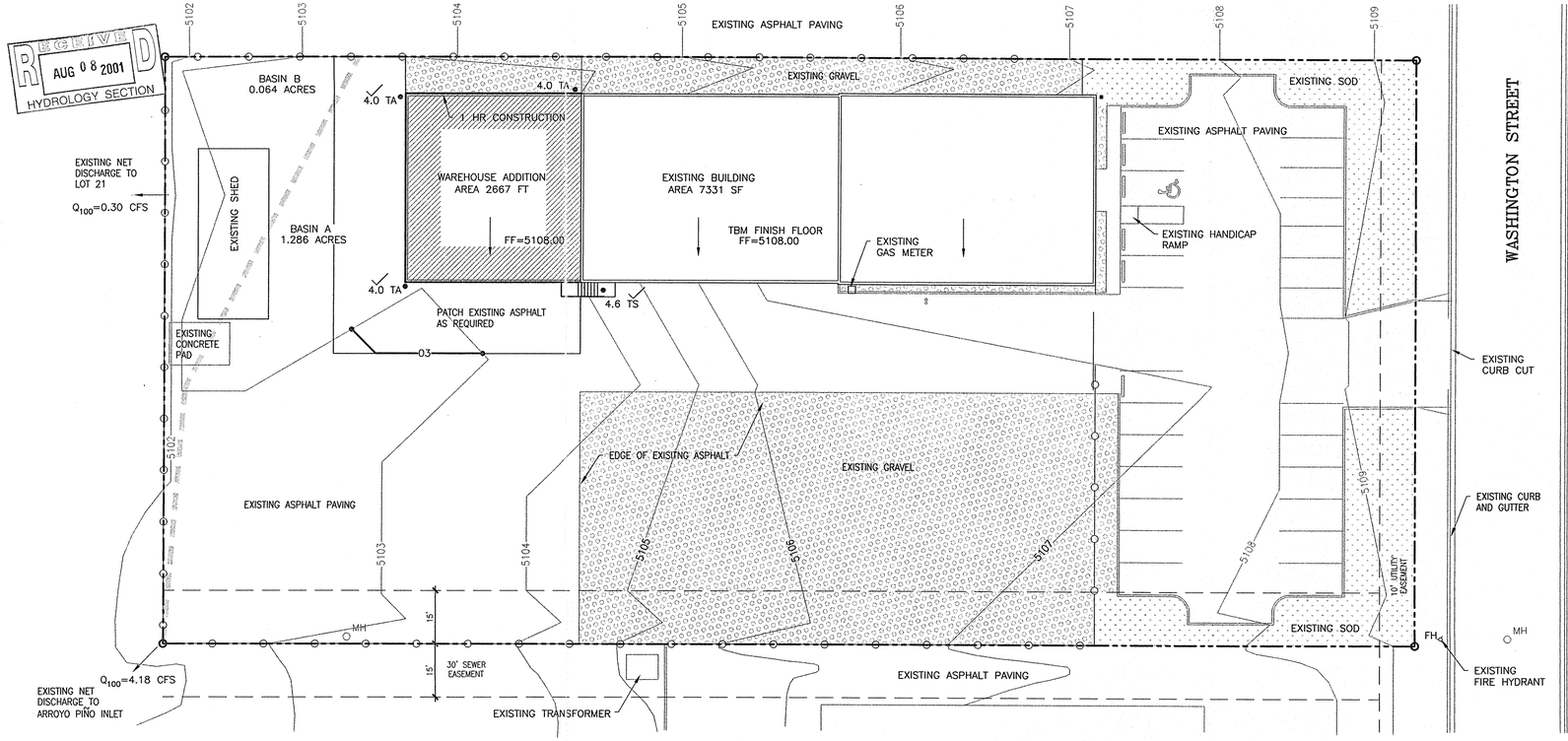

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HYDROLOGY SECTION

LEGEND:

33.92 EP	EXISTING SPOT ELEVATION
• 51.00	NEW SPOT ELEVATION
51	EXISTING CONTOUR
51	NEW CONTOUR
	SWALE
✓	VERIFIED ELEVATION
51.0	AS BUILT ELEVATION
	BASIN BOUNDARY
	PROPERTY LINE
EP	EXISTING PAVING
FL	FLOW LINE
GND	GROUND
INV	INVERT
TA	TOP OF ASPHALT
TC	TOP OF CURB
TG	TOP OF GRATE
TS	TOP OF CONCRETE SLAB
TW	TOP OF WALL
TBM	TEMPORARY BENCH MARK

CONSTRUCTION NOTES

1. TWO WORKING DAY PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CALL FOR LOCATION OF EXISTING UTILITIES.
2. ALL WORK WITHIN THE CITY RIGHT OF WAY SHALL BE FERFORMED IN ACCORDANCE WITH THE APPLICABLE CITY OF ALBUQUERQUE STANDARD AND PROCEDURE.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, LAWS, AND RULES CONCERNING SAFETY AND HEALTH.
4. FRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE EXISTING SITE CONDITIONS AND INFORM THE ARCHITECT / ENGINEER OF ANY DISCREPANCY BETWEEN THE INFORMATION SHOWN THE PLANS AND THOSE OF THE EXISTING SITE.

BENCH MARK

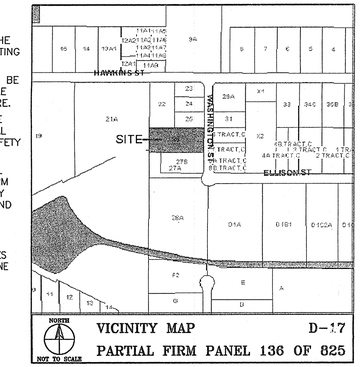
10-D17 ALONG EAST X-MISSION IN AN OPEN FIELD 0.65 MILES WEST OF I-25 ON PROJECTED LINE OF SAN ANTONIO DRIVE, NE 40d AML IN SOUTH POLE OF PYLON FIRE 8

LEGAL DESCRIPTION

LOT 26, UNIT IV, INTERSTATE INDUSTRIAL TRACT
ALBUQUERQUE NEW MEXICO.

ADDRESS

7131 WASHINGTON NE



VICINITY MAP D-17
PARTIAL FIRM PANEL 136 OF 825

GRADING AND DRAINAGE PLAN
LOT 26, UNIT IV INTERSTATE INDUSTRIAL TRACT

DRAINAGE PLAN

THE FOLLOWING ITEMS CONCERNING THE LOT 26, UNIT IV INTERSTATE INDUSTRIAL TRACT GRADING AND DRAINAGE PLAN ARE CONTAINED HEREON:

1. VICINITY MAP
2. GRADING PLAN
3. CALCULATIONS

THE PROPOSED IMPROVEMENTS, AS SHOWN BY THE VICINITY MAP, ARE LOCATED AT 7131 WASHINGTON, NE. THE SITE IS CURRENTLY DEVELOPED. THE LAND SLOPES TO THE SOUTHWEST AT AN APPROXIMATE SLOPE OF 2.5%. THE SITE IS NOT WITHIN A FLOOD HAZARD ZONE.

THE SITE IS HIGHER THAN THE LANDS TO THE NORTH AND WEST. THE LANDS TO THE SOUTH ARE DEVELOPED AND DISCHARGE INTO THE ARROYO PINO INLET. THE STREET ALONG THE EAST PREVENTS WATER FROM ENTERING THE SITE FROM THAT DIRECTION. THEREFORE OFF SITE FLOWS ARE NOT CONSIDERED SIGNIFICANT.

THE SITE IS DIVIDED INTO TWO SUB-BASINS. BASIN A (95.3%) OF THE SITE, DRAINS TO THE SOUTH WEST PROPERTY CORNER AND DISCHARGED INTO THE ARROYO PINO INLET. BASIN B DISCHARGES DRAINS TO THE WEST ON THE LOT 21.

THE GRADING PLAN SHOWS:

- THE EXISTING AND PROPOSED GRADES, INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS.
- CONTINUITY BETWEEN EXISTING AND PROPOSED ELEVATIONS.
- THE LIMIT AND CHARACTER OF EXISTING IMPROVEMENTS, AND
- THE LIMIT AND CHARACTER OF THE PROPOSED IMPROVEMENTS.

THE PROPOSED IMPROVEMENTS CONSIST AN WAREHOUSE ADDITION TO THE EXISTING BUILDING, AND ASSOCIATED PARKING AND LANDSCAPING.

THE PROPOSED IMPROVEMENTS ARE TO BE CONSTRUCTED OVER THE EXISTING ASPHALT PAVING. THEREFORE THERE WILL BE NO INCREASE IN RUNOFF. THE FLOOR DRAINAGE PLAN FOR THIS SITE INCLUDED A FUTURE BUILDING ON THE SOUTH SIDE OF THE LOT, AND A FUTURE PARKING AREA. THE PARKING AREA HAS BEEN CONSTRUCTED. THE APPROVED RUNOFF FOR BASIN A IS 4.81 CFS/ACRE. THE PROPOSED/EXISTING RUNOFF FOR BASIN A OF 3.25 CFS/ACRE IS LESS THAN THE APPROVED RUNOFF.

THE CALCULATIONS ANALYZE THE EXISTING AND PROPOSED CONDITIONS FOR THE 6-HOUR, 100 YEAR RAINFALL EVENT. THE ANALYSIS IS IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL VOLUME II. AS SHOWN BY THESE CALCULATIONS.

CALCULATIONS

PRECIPITATION ZONE = 2
TOTAL SITE AREA = 1.35 ACRES
BASIN A EXISTING
AREA = 1.286 ACRES
EXISTING CONDITIONS
LAND TREATMENT B=8% C=21% D=71%
E = 0.78(0.08)+1.13(0.21)+ 2.12(0.71)=1.80 INCHES
V = 1.80(1.286) / 12 = 0.193 ACRE FEET
Q = [2.28(0.08)+3.14(0.21)+4.70(0.71)](1.286)=4.18 CFS
DEVELOPED CONDITIONS
NO CHANGE
PRIOR APPROVED RUNOFF
Q = 6.19 CFS

BASIN B
AREA = 1.286 ACRES
EXISTING CONDITIONS
LAND TREATMENT D=100%
E = 2.12(1.00)= 2.12 INCHES
V = 2.12(0.064) / 12 = 0.011 ACRE FEET
Q = 4.70(1.00)(0.064) = 0.30 CFS
DEVELOPED CONDITIONS
NO CHANGE
PRIOR APPROVED RUNOFF
Q = 0.35 CFS

NORTH

GRADING PLAN

APRIL 16, 2001 1"=20'-0"

Engineer's Certification for
Permanent Certificate of Occupancy
LOT 26, UNIT IV INTERSTATE INDUSTRIAL TRACT

I hereby certify that I have inspected the site grading and drainage improvements and that they have been completed in substantial compliance with the approved grading and drainage plan; and are expected to function as intended. Proposed contours have not been revised to reflect the as-constructed information and should be considered approximate. Spot elevations which have not been revised should be considered approximate.

Arthur Blessen 8/8/01
Arthur Blessen, PE date
NM PE# 13481

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HYDROLOGY SECTION

JOHN ARTHUR BLESSEN
NEW MEXICO
13481
REGISTERED PROFESSIONAL ENGINEER
8/8/01

CLAUDIO VIGIL ARCHITECTS

GAMBLIN & RODGERS
ELECTRICAL CONTRACTORS ADDITION
7131 WASHINGTON N.E.
ALBUQUERQUE, NEW MEXICO

SHEET
C-1
PROJECT NUMBER
01140

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