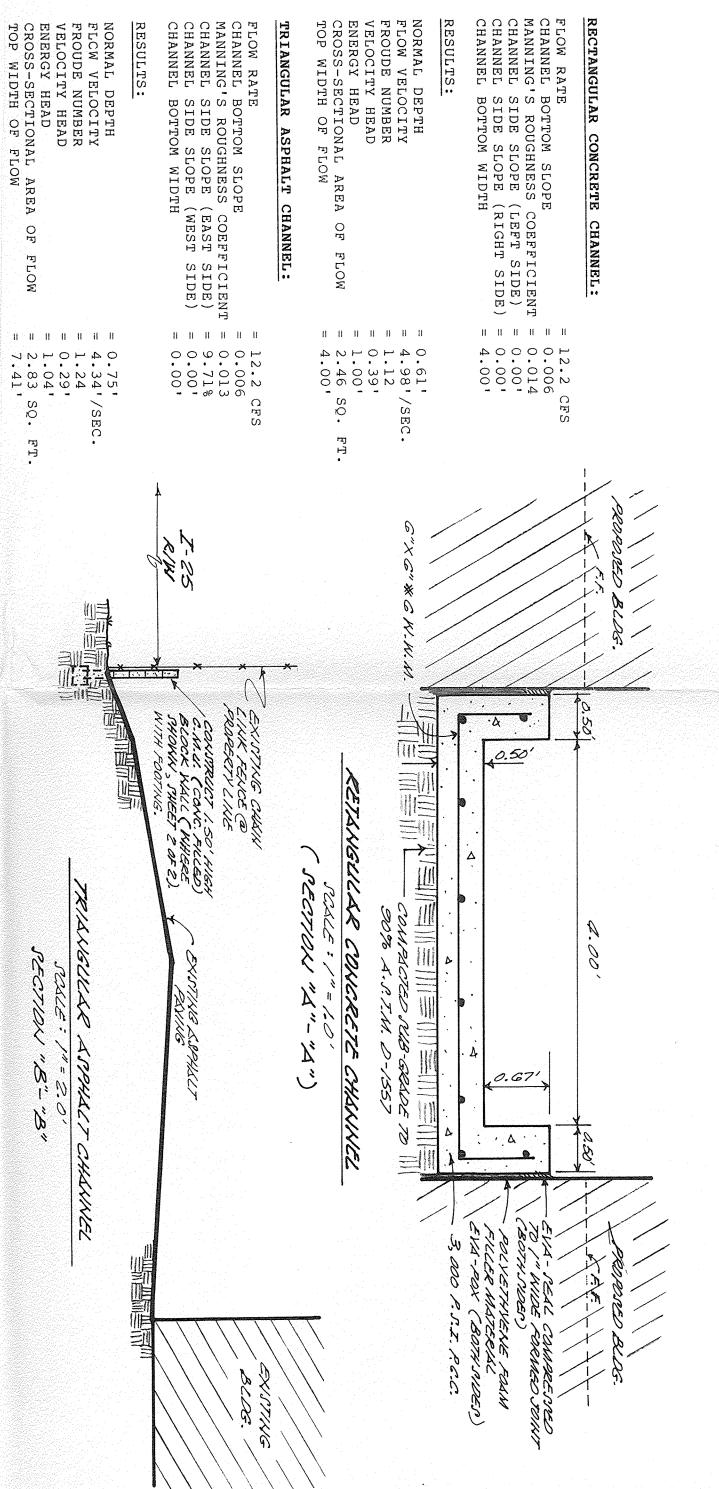
- TWO (2) WORKING DAYS PRIOR TO CONTACT LINE LOCATING SERVICE ING UTILITIES. ANY AT : Y EXCAVATION, CONTRACTOR MUST LOCATION OF EXIST
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS: SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCAPPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.

RECTANGULAR

CONCRETE

CONTRACTOR SHALL BE HELD DURING CONSTRUCTION; HE TAKEN: RESPONSIBLE FOR MANAGEMENT FOR STORM RUN-SHALL INSURE THAT THE FOLLOWING MEASURES

- ADJACENT PROPERTY SHALL OF BERMS, DIKES, SWALES QUIRED TO PREVENT STORM ADJACENT PROPERTIES. BE PROTECTED AT ALL TIMES BY CONSTRUCTION PONDS, AND OTHER TEMPORARY GRADING AS RE-RUNOFF FROM LEAVING THE SITE AND ENTERING
- ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER PUBLIC STREETS.
- THE CONTRACTOR SHALL IMMEDIATELY AND THROUGHLY REMOVE ANY AND ALL SEDIMENT WITHIN PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SITE AND DEPOSITED THERE.



NORMAL DEPTH
FLOW VELOCITY
FROUDE NUMBER
VELOCITY HEAD
ENERGY HEAD
CROSS-SECTIONAL AREA C

OF.

TRIANGULAR

ASPHALT

AND OR MULTIPLE ဂ္ SECTION PLACE IN SO DEALE THESE STATE STREAMS STECHAS A SOFTER SEQUENCE STATE STREAM STECHAS AS SOFTER STATE STATE STATE THE STATE STATE STATE STATE BOTTOM SLAB OF COLUMN STATE BOTTOM SLAB OF COLUMN STATE THE STATE STATE STATE THE STATE STATE THE STATE STATE THE STATE STATE THE STATE THE STATE STATE THE STATE STATE THE STATE TH SIDEWALK CULVERT WITH STEEL PLATE TOP DWG. 2236

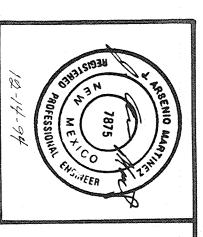
NOTICE TO CONTRACTOR:

- AN EXCAVATION/CONSTR BEGINNING ANY WORK W COPY OF THIS PLANS M CATION OF THIS PERMI RUCTION PERMIT WILL BE REQUIRED BEFORE WITHIN CITY RIGHT-OF-WAY. AN APPROVED MUST BE SUBMITTED AT THE TIME OF APPLI-
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATION PUBLIC WORKS CONSTRUCTION 1985.
- TWO (2) WORKING DAY MUST CONTACT LINE LOF EXISTING UTILITI 'S PRIOR TO ANY EXCAVATION, CONTRACTOR OCATING SERVICE, (355-1236) FOR LOCATION 260-1220
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS, SHOULD A CONFLICT EXIST, THE CONTARCTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE ACCORDING TO STREET USE.
- MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

APPROVALS	NAME	DATE
A.C.E./ DESIGN	Bury Montaga	12/2/24
INSPECTOR	0	
A.C.E. / FIELD		

NOTE FORMED U PERMIT. WORK UNDER SHALL SEPARATE BE PUBLIC PER-

NOTE: 12' COMPUTED a\2gh CULVERT (24" EQUALS WIDTH): 0 (Energy (CULVERT 89 Head) =CULVERT FLOW CFS 0.89 Q₁₀; CFS CFS Q_{100-YR} 9.42 CFS MILL OVERFLOW)

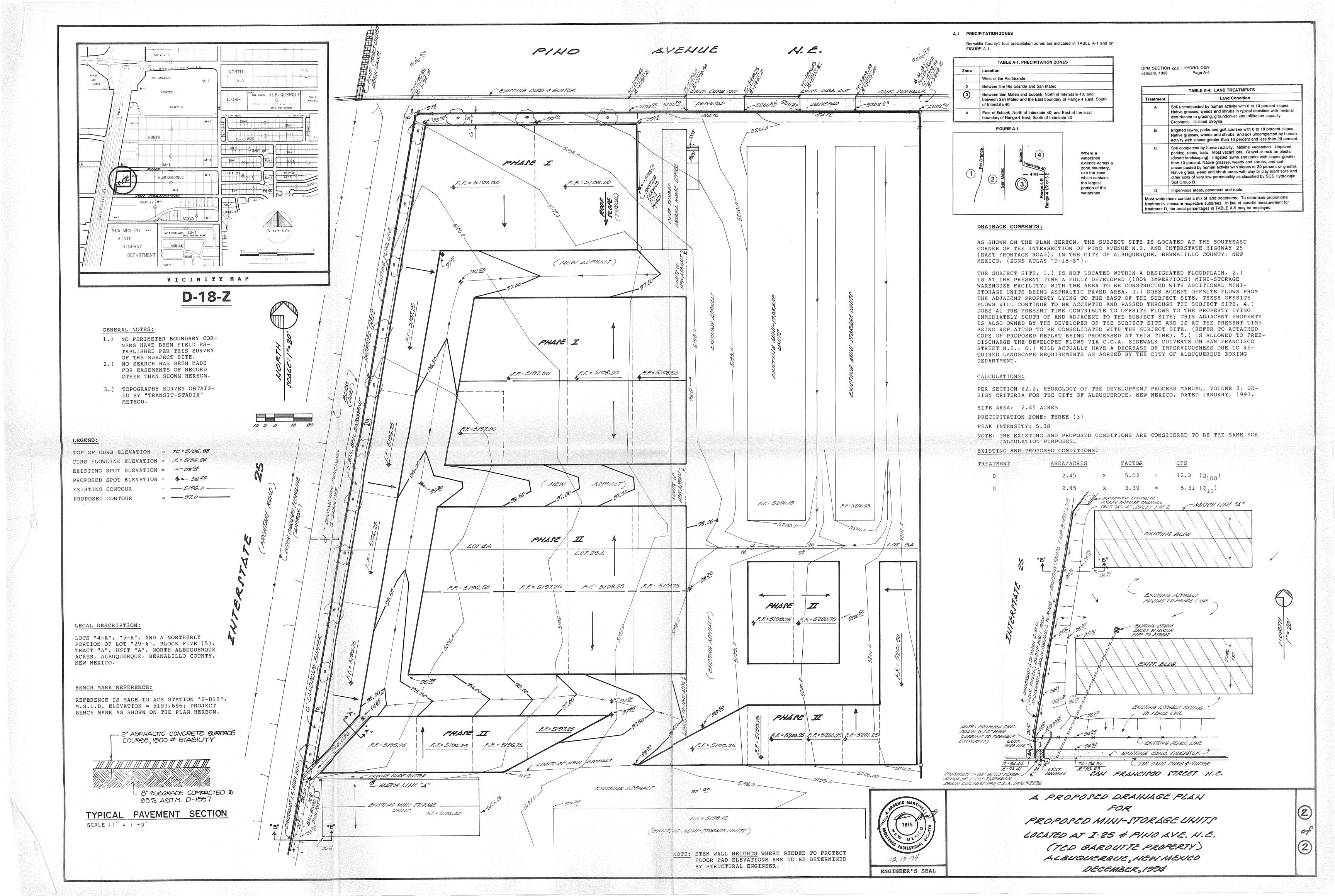


ENGINEER'S SEAL

OCATED AT GAROL ERQUE S RAINIAGE ER, 1024 Y SIND AVE. NEW MEXIC PROPERTY DEC 2 \bigcirc



(5) $\langle \overline{\wp} \rangle$



I. INTRODUCTION AND EXECUTIVE SUMMARY

THIS PROJECT, LOCATED ALONG THE NORTH I-25 CORRIDOR, REPRESENTS THE CONVERSION OF EXISTING PAVING TO BUILDING AREA. THE NET EFFECT WILL BE NIL AS NO ADDITIONAL IMPERVIOUS AREA WILL BE CREATED. THE PROPOSED DEVELOPMENT WILL NOT CREATE ANY ADDITIONAL IMPERVIOUS AREA AND WILL MAINTAIN EXISTING DRAINAGE PATTERNS.

THIS SUBMITTAL IS MADE IN SUPPORT OF BUILDING PERMIT APPROVAL FOR THE SUBJECT PROPERTY.

II. PROJECT DESCRIPTION

AS SHOWN BY THE VICINITY MAP, THE SITE IS LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF THE I-25 EAST FRONTAGE ROAD AND PINO AVENUE NE. THE CURRENT LEGAL DESCRIPTION IS LOTS 4A, 5A AND 29A, BLOCKS, NORTH ALBUQUERQUE ACRES, TRACT A, UNIT A. AS SHOWN BY PANEL 137 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY FEMA FOR BERNALILLO COUNTY, NEW MEXICO, SEPTEMBER 20, 1996, THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE. IT APPEARS, HOWEVER, THAT THE SITE DRAINS TO A DESIGNATED FLOOD HAZARD ZONE (AO DEPTH1) THAT COINCIDES WITH SAN FRANCISCO ROAD NE AND THE I-25 EAST FRONTAGE ROAD DRAINING TO THE NORTH ARROYO DEL PINO. THE NORTH ARROYO DEL PINO IS A DESIGNATED FLOOD HAZARD ZONE WITH THE 100-YEAR FLOOD CONFINED TO THE CONSTRUCTED CHANNEL. REVIEW OF THE FEMA MAPPING INDICTAES THAT THE SITE IS LOCATED TOWARD TO THE BOTTOM OF THE WATERSHED. THE PROPOSED BUILDING CONSTRUCTION WILL NOT WORSEN OR AGGRAVATE THE EXISTING CONDITION.

THE PROJECT CONSISTS OF THE CONSTRUCTION OF TWO FREE-STANDING BUILDINGS WITHIN AN ALREADY PAVED PARKING LOT WITHIN THE CENTER OF AN EXISTING SELF-STORAGE COMPLEX. THE SITE WILL CONTINUE TO DRAIN FROM EAST TO WEST TO THE I-25 EAST FRONTAGE ROAD.

III. BACKGROUND DOCUMENTS & RESEARCH

THE FOLLOWING DOCUMENTS WERE USED IN THE PREPARATION OF THIS SUBMITTAL:

- A. GRADING AND DRAINAGE PLAN FOR PROPOSED MINI-STORAGE UNITS PREPARED BY J. ARSENIO MARTINEZ, NMPE 7875, DATED 12-14-94 AND LATER CERTIFIED (PHASE 1 ONLY) BY J. ARSENIO MARTINEZ, 09-21-95. THAT ORIGINAL SUBMITTAL ESTABLISHED THE PRECEDENT OF FREE DISCHARGE FOR THIS SITE.
- B. PANEL 137 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY FEMA FOR BERNALILLO COUNTY, NEW MEXICO, SEPTEMBER 20, 1996, THIS SITE DRAINS TO A DESIGNATED FLOOD HAZARD ZONE (AO DEPTH 1). THE DESIGNATED FLOOD HAZARD ZONE APPEARS TO BE ASSOCIATED WITH FLOODING WITHIN PUBLIC ROADWAYS AND DOES NOT APPEAR TO ENCROACH UPON PRIVATE PRPERTY. THE PROPOSED BUILDING IMPROVEMENTS WILL NOT WORSEN OR AGGRAVATE THE EXISTING CONDITION.

IV. EXISTING CONDITIONS

AT PRESENT, THE SITE IS DEVELOPED AS A SELF-STORAGE COMPLEX DRAINING FROM EAST TO WEST AND DISCHARGING ITS DEVELOPED RUNOFF VIA A 4-FEET WIDE PRIVATE DRAINAGE CHANNEL TO THE I-25 EAST FRONTAGE ROAD RIGHT-OF-WAY. FROM THAT POINT, THE RUNOFF FLOWS IN A SOUTHERLY DIRECTION WITHIN THE FRONTAGE ROAD BARDITCH TO ENTER THE NORTH ARROYO DEL PINO. THE SITE IS FULLY DEVELOPED, PREDOMINANTLY WITH BUILDINGS AND PAVING. A VERY SMALL PORTION OF THE SITE IS LANDSCAPED. THE SITES WHERE FREE-STANDING BUILDINGS ARE PROPOSED ARE CURRENTLY PAVED (100% IMPERVIOUS).

OFFSITE FLOWS DO NOT ENTER THIS SITE FROM THE UPHILL PROPERTY TO THE EAST DUE TO THE PRESENCE OF A BERM AT THE PROPERTY LINE THAT DIVERTS POTENTIAL OFFSITE SHEETFLOW SOUTH TO SAN FRANCISCO ROAD NE. THIS IS ANEXISTING CONDITION OBSERVED BY THIS ENGINEER DURING A SITE VISIT CONDUCTED 01–10–2004.

V. DEVELOPED CONDITIONS

THE PROPOSED CONSTRUCTION CONSISTS OF TWO FREE-STANDING BUILDINGS TO BE CONSTRUCTED WITHIN ALREADY PAVED AREAS OF THE SITE. DRAINAGE WILL BE ROUTED AROUND EACH BUILDING AND ALLOWED TO CONTINUE TO DRAIN TO THE EXISTING 4-FEET WIDE PRIVATE DRAINAGE CHANNEL DISCHARGING TO THE 1-25 EAST FRONTAGE ROAD RIGHT-OF-WAY. FROM THAT POINT, THE RUNOFF WILL CONTINUE TO FLOW SOUTH WITHIN THE FRONTAGE ROAD BARDITCH TO ENTER THE NORTH ARROYO DEL PINO. OFFSITE FLOWS WILL CONTINUE TO BE DIVERTED AROUND THE SITE.

VI. GRADING PLAN

THE GRADING PLAN SHOWS 1.) EXISTING AND PROPOSED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS, 2.) THE LIMIT AND CHARACTER OF THE EXISTING IMPROVEMENTS, 3.) THE LIMIT AND CHARACTER OF THE PROPOSED IMPROVEMENTS, AND 4.) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES. THE NEW CONSTRUCTION WILL DRAIN INTERNALLY TO THE EXISTING 4-FEET WIDE PRIVATE DRAINAGE CHANNEL DISCHARGING TO THE I-25 EAST FRONTAGE ROAD RIGHT-OF-WAY AS DESRIBED ABOVE.

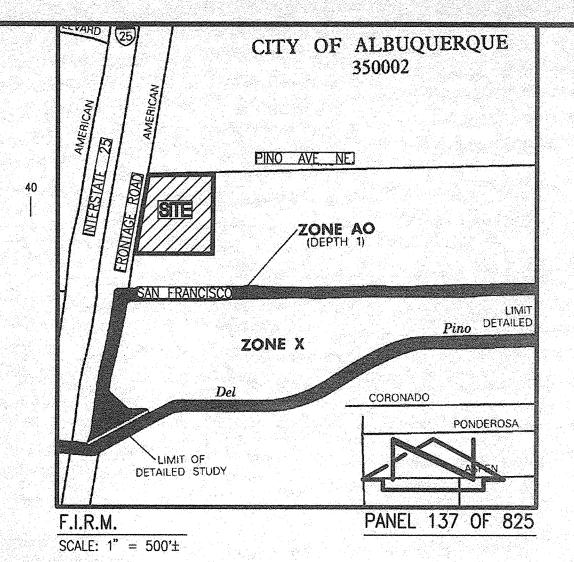
VII. CALCULATIONS

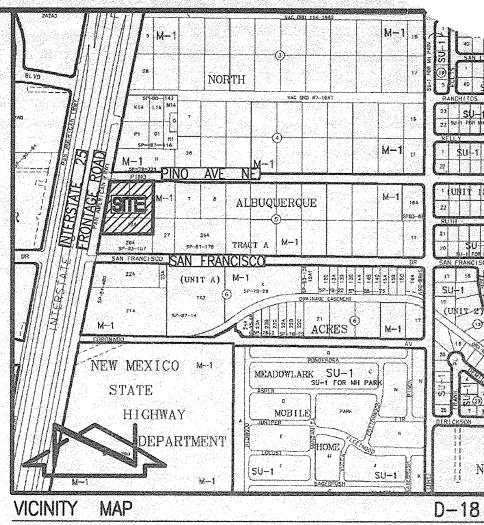
CALCULATIONS ANALYZING THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT HAVE NOT BEEN PREPARED FOR THIS PROJECT BECAUSE THE NET IMPERVIOUS AREA WILL NEITHER INCREASE NOR DECREASE AND THE EXISTING DRAINAGE PATTERNS WILL BE MAINTAINED.

VIII. CONCLUSION

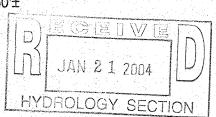
THE FREE DISCHARGE OF RUNOFF FROM THIS SITE TO THE I-25 EAST FRONTAGE ROAD IS APPROPRIATE DUE TO THE FOLLOWING FACTORS:

- 1. THE EXISTING DRAINAGE PATTERN (STATUS QUO) WILL NOT BE ALTERED AND HENCE MAINTAINED
- 2. MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA
- 3. NO INCREASE IN IMPERVIOUS AREA AND HENCE NO INCREASE IN DEVELOPED RUNOFF





SCALE: 1" = 750'±



PROJECT BENCHMARK

ACS STATION "6-D18" ELEVATION = 5197.686 (NGVD 1929)

T.B.M.

T.B.M. #1

SLASH MARK AT TOP OF CURB NEAR THE NORTHEAST CORNER OF THE SITE AS SHOWN ON THE DRAWING. ELEVATION = 5202.82 FEET.

3.ivi. #2

TOP OF SLAB AT CORNER OF EXISTING STORAGE BUILDING AS SHOWN ON THE DRAWING ELEVATION = 5200.15 FEET

LEGAL DESCRIPTION

LOTS 4-A, 5-A AND A NORTHERLY PORTION OF LOT 29A, BLOCK FIVE, TRACT A, UNIT A, NORTH ALBUQUERQUE ACRES



JEFF MORTENSEN & ASSOCIATES, INC.

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DRAINAGE PLAN
GRIZZLY STORAGE

