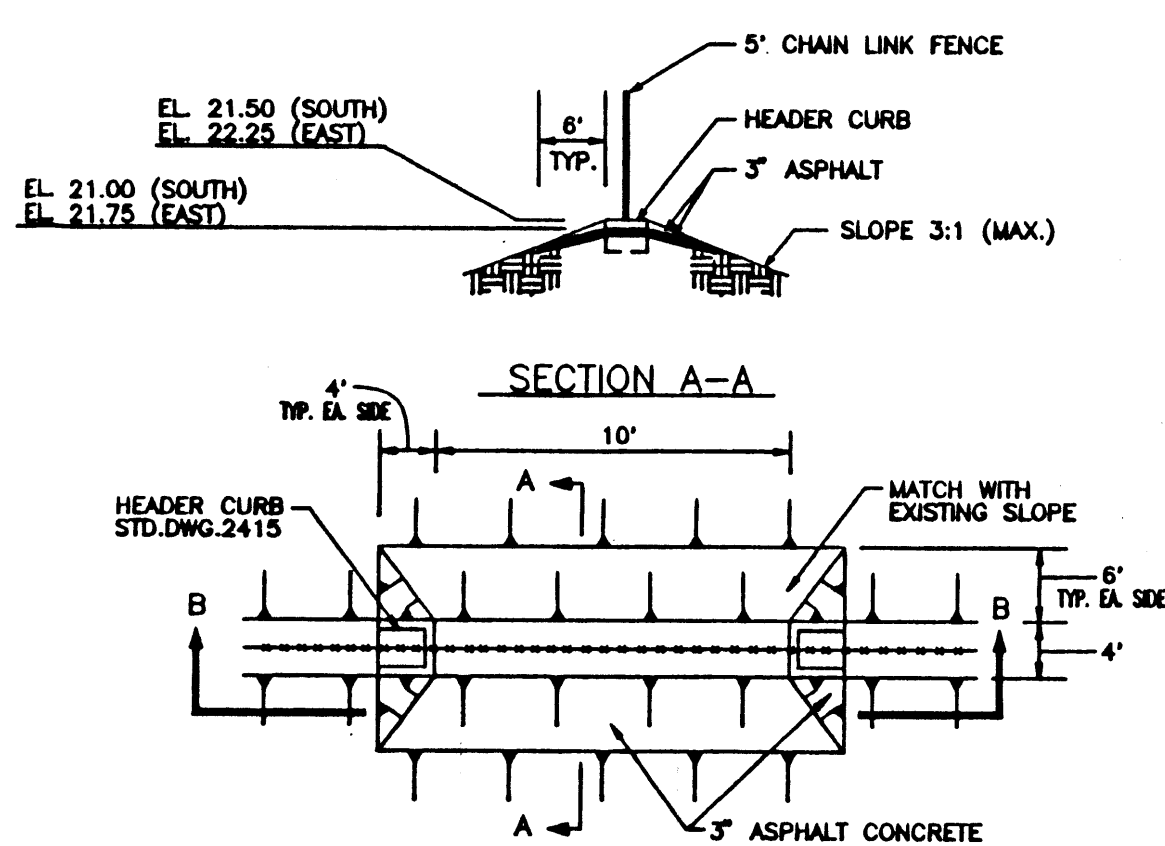
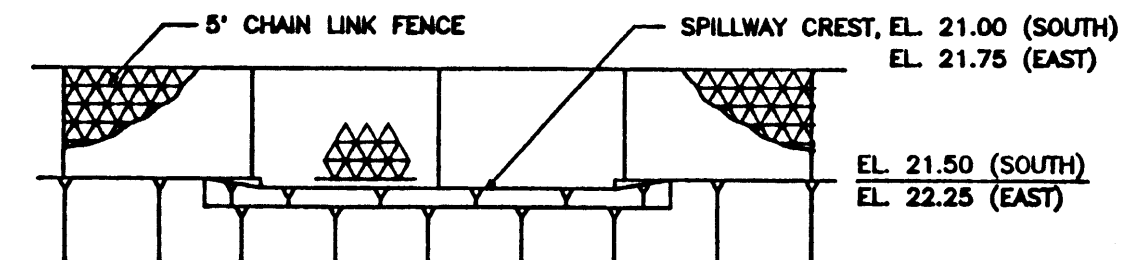


ENGINEER'S CERTIFICATION

I, the undersigned, being a Professional Engineer registered in the state of New Mexico, do hereby certify that this drawing was prepared by me, and that the as-built information shown hereon is based on actual field measurements performed by Aldrich Land Surveying, the City of Albuquerque Construction Management Division and Protec Consulting. I further certify that the as-built condition of the site meets City of Albuquerque requirements for rough grading tolerances and is in substantial conformance with the Grading and Drainage Plan prepared by PROTEC Consulting and approved by the City of Albuquerque Public Works Department, Hydrology Division on May 14, 1997.

R.W. Mack
Raymond W. Mack, P.E. (NMPE #6414)
Date 4/23/98



EMERGENCY SPILLWAY DETAILS
N.T.S.

LEGEND

- EXISTING CONTOURS
- PROPOSED SPOT ELEVATIONS
- TOP OF RETAINING WALL ELEVATION
- EXISTING SPOT ELEVATIONS
- FLOW LINE ELEVATIONS
- PAD GRADE
- FLOW DIRECTION
- RETAINING WALL
- CHAIN LINE FENCE
- DRAINAGE BASIN BOUNDARY
- WATER BLOCK
- DOUBLE "D" INLET

LEGAL DESCRIPTION

A CERTAIN TRACT OF LAND BEING AND COMPRISING PORTIONS OF TRACTS 227 AND 228, AIRPORT UNIT, TOWN OF ATRISCO GRANT, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT THEREOF, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON DECEMBER 5, 1944, IN VOLUME D, FOLIO 118.

ENGINEER

PROTEC CONSULTING
P.O. BOX 27007
ALBUQUERQUE, NEW MEXICO 87125

SURVEYOR

SOUTHWEST SURVEYING CO., INC.
333 LOMAS BOULEVARD, N.E.
ALBUQUERQUE, NEW MEXICO 87102

BENCHMARK

ACS MONUMENT "B-J10" LOCATED NORTH OF I-40 RIGHT-OF-WAY AT 76TH STREET, N.W.
ELEVATION: 5130.013

TBM

NONE

ZONING

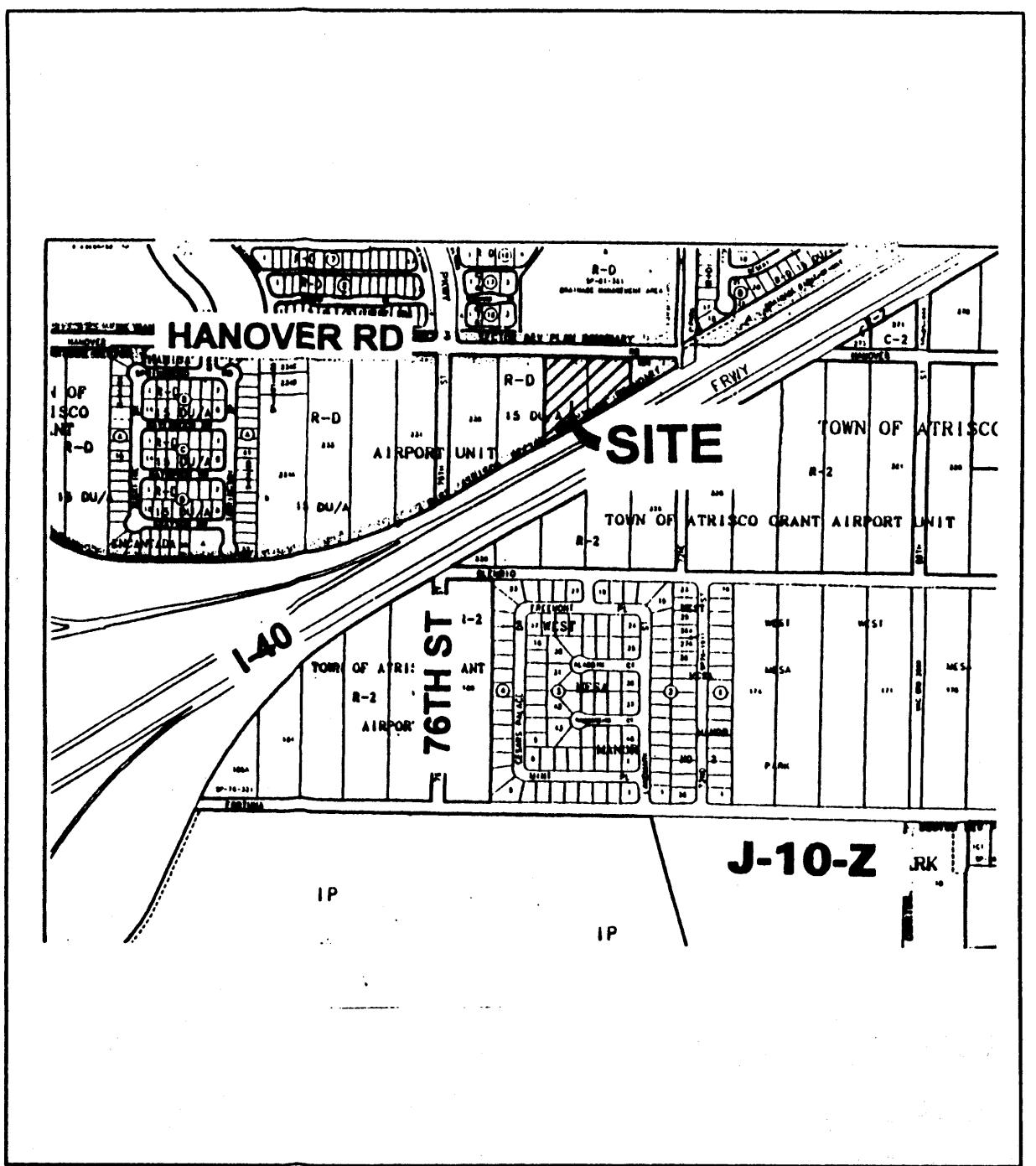
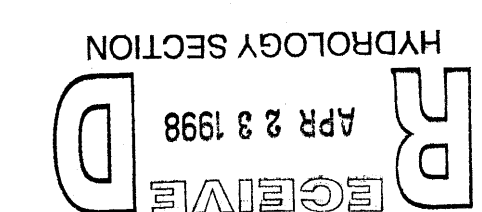
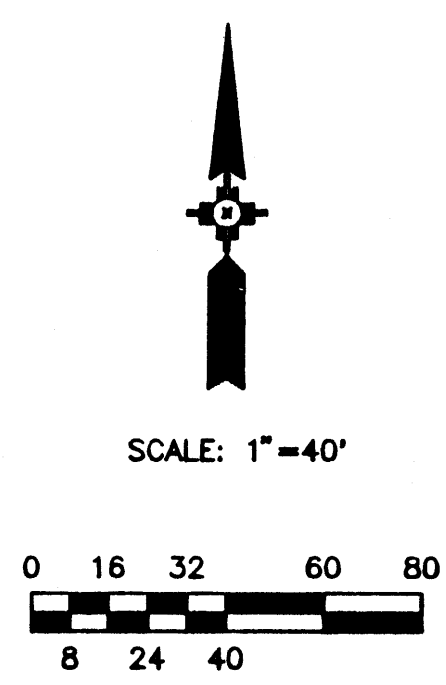
R-D (15 DU/AC MAX.)

PROPOSED

12 SINGLE FAMILY RESIDENTIAL LOTS.

AREA

1.8952 ACRES FROM TRACTS 227 AND 228 (EXCLUDES AMAFCA R/W)
0.0792 ACRES TO BE ACQUIRED FROM HANOVER RD., N.W. RIGHT-OF-WAY.
1.9744 ACRES TOTAL SUBDIVISION AREA (EXCLUDES AMAFCA R/W)
1.1340 ACRES TO BE ACQUIRED BY AMAFCA
3.55 ACRES: DA-1 + DA-2 + DA-3 + DA-4.



VICINITY MAP
Approximate Scale: 1"=750'

FLOOD HAZARD

THE PROPOSED SITE IS LOCATED WITHIN FLOOD HAZARD ZONE C (AREAS OF MINIMAL FLOODING) AS DESIGNATED ON PANEL NO. 350002-0027 OF THE OCTOBER 14, 1983 EDITION OF THE F.E.M.A. MAPS.

LOCATION AND DESCRIPTION

THE 1.9744 ACRE SITE IS UNDEVELOPED AND UNDISTURBED LAND WITH TYPICAL WEST SIDE GROUND COVER OF SAGE AND NATIVE GRASSES. HANOVER ROAD N.W. BORDERING ON THE NORTH IS FULLY DEVELOPED WHILE THE WEST BLUFF DIVERSION CHANNEL TO THE SOUTH IS UNDEVELOPED. THE ADJACENT TRACT TO THE EAST IS UNDEVELOPED. THE ADJACENT TRACT TO THE WEST IS UNDEVELOPED.

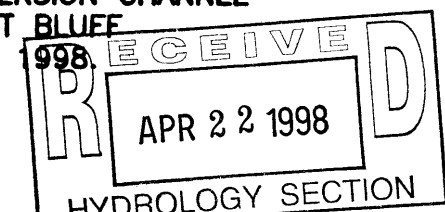
EXISTING CONDITIONS

THE SITE CONSISTS OF A SINGLE DRAINAGE BASIN WITH NATURAL RUNOFF DRAINING FROM NORTHWEST TO SOUTHEAST OVER A 2% GRADE. HANOVER ROAD INTERCEPTS OFFSITE FLOWS ORIGINATING FROM THE NORTH AND NORTHWEST. THESE FLOWS ARE CONVEYED TO THE EAST AS STREET FLOW TO THE LAURELWOOD PARK DRAINAGE MANAGEMENT AREA LOCATED AT THE NORTHWEST QUADRANT OF HANOVER ROAD AND 72ND STREET.

RUNOFF ORIGINATING ON SITE IS CONVEYED AS OVERLAND FLOW INTO THE I-40 RIGHT OF WAY WHERE A PORTION OF THE RUNOFF IS COLLECTED AND DRAINED UNDER THE INTERSTATE TO THE SOUTH THROUGH A 24-INCH CMP CULVERT. THE REMAINDER CONTINUES EASTWARD APPROXIMATELY 1,500' ALONG THE NORTH EDGE OF THE INTERSTATE TO AN EXISTING DOUBLE 5' X 3' CBC WHICH DRAINS SOUTHWARD UNDER I-40.

PROPOSED IMPROVEMENTS

THE 12 LOT SUBDIVISION SHALL BE DESIGNED FOR STORM WATER RUNOFF TO DRAIN FROM EACH LOT ONTO THE PUBLIC STREETS. A PORTION OF LOTS 1 AND 8 WILL DRAIN NORTH ONTO EXISTING HANOVER ROAD AND THEN TO THE LAURELWOOD PARKWAY DRAINAGE MANAGEMENT AREA. ALL OTHER LOTS WILL DRAIN ONTO THE STREETS PROPOSED FOR DEVELOPMENT WITH THIS SUBDIVISION. STREET RUNOFF WILL BE CONVEYED TO CUL-DE-SACS AT THE SOUTH AND EAST ENDS OF THE SUBDIVISION AND INTERCEPTED BY 20" CONCRETE LINED DRAINAGE EASEMENTS. UNTIL THE WEST BLUFF DIVERSION CHANNEL IS BUILT, TEMPORARY 0.182 AND 0.1064 ACRE-FT RETENTION BASINS WILL BE CONSTRUCTED TO COLLECT RUNOFF FROM THE DRAINAGE EASEMENTS. THE RETENTION BASINS WILL BE EQUIPPED WITH 10' LONG EMERGENCY SPILLWAYS, CHAIN LINK FENCING, AND RIPRAP EROSION PROTECTION AT THE DRAINAGE EASEMENT INLETS. ULTIMATELY, THE 20" WIDE CONCRETE LINED DRAINAGE EASEMENTS AND PEDESTRIAN ACCESS WILL BE CONSTRUCTED TO THE NORTH EDGE OF THE WEST BLUFF DIVERSION CHANNEL AND THE TEMPORARY RETENTION PONDS WILL BE REMOVED. THE WEST BLUFF DIVERSION CHANNEL IS PROGRAMMED FOR CONSTRUCTION IN 1997 OR 1998.



AMAFCA Approval
DATE 5/8/97

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: TIGERWOOD SUBDIVISION			
GRADING AND DRAINAGE PLAN			
City Project No.	568381	Zone Map No.	J-10
Sheet	3	of	9

AS-BUILT