



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 13, 1993

Jeff Mortensen
Jeff Monrtensen & Associates
6010-B Midway Park Blvd. NE
Albuquerque, NM 87109

RE: GRADING/DRAINAGE PLAN FOR HIGHLAND HIGH SCHOOL TRACK (K17-D21A)
ENGINEER'S STAMP DATED 4/7/93.

Dear Mr. Mortensen:

Based on the information provided on your April 8, 1993 submittal, the above referenced site is approved for Grading/Paving and S.O. 19.

Please be advised that prior to final approval for the construction, Engineer Certification per the D.P.M. checklist will be required.

Also, a separate permit is required for construction within City Right-of-Way. A copy of this approval letter must be on hand when applying for the excavation permit.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Bernie J. Montoya, CE
Engineer Associate

BJM/d1/WPHYD/7685

xc: Alan Martinez
Darlene Saavedra
File

PUBLIC WORKS DEPARTMENT

930211

PROJECT TITLE: HIGHLAND H.S. TRACK ZONE ATLAS/DRNG. FILE #: K17/021A
DRB #: _____ EPC #: _____ WORK ORDER #: _____
LEGAL DESCRIPTION: TRACT A, HIGHLAND HIGH SCHOOL
CITY ADDRESS: 4700 COAL SE
ENGINEERING FIRM: JEFF MORTENSEN & ASSOC. CONTACT: JEFF MORTENSEN
ADDRESS: 6010-B MIDWAY PARK BLVD NE PHONE: 345-4250
OWNER: APS CONTACT: BOB ROBILE
ADDRESS: DFPC PHONE: 242-5865
ARCHITECT: DALC CRAWFORD & ASSOC CONTACT: VIRGINIA
ADDRESS: 117 JEFFERSON NE PHONE: 268-5461
SURVEYOR: JEFF MORTENSEN & ASSOC CONTACT: JEFF MORTENSEN
ADDRESS: 6010-B MIDWAY PARK BLVD NE PHONE: 345-4250
CONTRACTOR: NOT SELECTED CONTACT: _____
ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
☒ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☒ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION
☐ OTHER

PRE-DESIGN MEETING:

- ☐ YES
☒ NO
☐ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D. APPROVAL
☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☐ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY APPROVAL
☐ GRADING PERMIT APPROVAL
☒ PAVING PERMIT APPROVAL
☐ S.A.D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☒ OTHER 50#19 (SPECIFY)

TE SUBMITTED:

BY:

04-07-93JEFFREY G. MORTENSEN

CONSTRUCTION NOTES:

- Two (2) working days prior to any excavation, contractor must contact New Mexico One Call System 260-1990, for location of existing utilities.
- Prior to construction, the contractor shall locate any and all horizontal and vertical locations of all potential obstructions. Should a conflict exist, the contractor shall notify the engineer in writing so that the conflict can be resolved with a minimum amount of delay.
- 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.
- All construction within public right-of-way shall be performed in accordance with applicable City of Albuquerque Standards and Procedures.
- If any utility lines, pipelines, or underground utility lines are shown on these drawings, they are shown in an approximate manner only, and such lines may exist where none are shown. If any such existing lines are shown, the location is based on utility information provided to the engineer. Said utility information may be incomplete, or may be obsolete by the time construction commences. The engineer has conducted only preliminary investigation of the location, depth, size, or type of existing utility lines, pipelines, or underground utility lines. This investigation is not conclusive, and may not be complete, therefore, makes no representation pertaining thereto, and assumes no responsibility of liability therefor. The contractor shall be responsible for locating, identifying and preserving any and all existing utility lines, pipelines, and underground utility lines. In planning and conducting excavation, the contractor shall comply with state statutes, municipal and local ordinances, rules and regulations, if any, pertaining to the location of these lines and facilities.
- An Excavation/Construction Permit will be required before beginning any work within City right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.
- Backfill compaction shall be according to ARTERIAL street use.
- Maintenance of these facilities shall be the responsibility of the owner of the property served.
- The design of planters and landscaped areas is not part of this plan. All planters and landscaped areas adjacent to the building(s) shall be provided with positive drainage to avoid any ponding adjacent to the structure. For construction details, refer to landscaping plan.

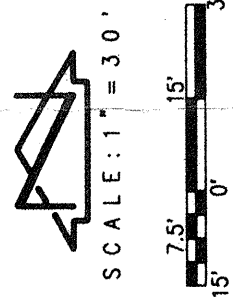
APPROVALS	NAME	DATE
A.C.E. / DESIGN	<i>Benny Martinez</i>	4/19/13
INSPECTOR		
A.C.E. / FIELD		

Erosion Control Measures

- The contractor shall ensure that no soil erodes from the site into the public right-of-way or onto private property. This shall be accomplished by installing temporary berms at the property lines and setting the soil to keep it from blowing.
- The contractor shall promptly clean up any material excavated within the public right-of-way so that the excavated material is not susceptible to being washed down the street.
- The contractor shall secure "Topsoil Disturbance Permit" prior to beginning construction.

PROJECT BENCHMARK

STATION IS A 3 1/4" ALUMINUM TABLET SET IN A DRILL HOLE FLUSH WITH THE TOP OF CONCRETE CURB. STATION IS STAMPED "A.S. 13-117, 1984". STATION IS LOCATED AT THE INTERSECTION OF ZUNI RD. S.E. AND WASHINGTON PLACE. S.E. APPROXIMATELY 26 FEET EAST OF THE CENTERLINE OF MADISON PL. AND 43 FEET SOUTH OF THE CENTERLINE OF ELEVATION = 5247.57 FEET (M.S.L.D.)



T.B.M.

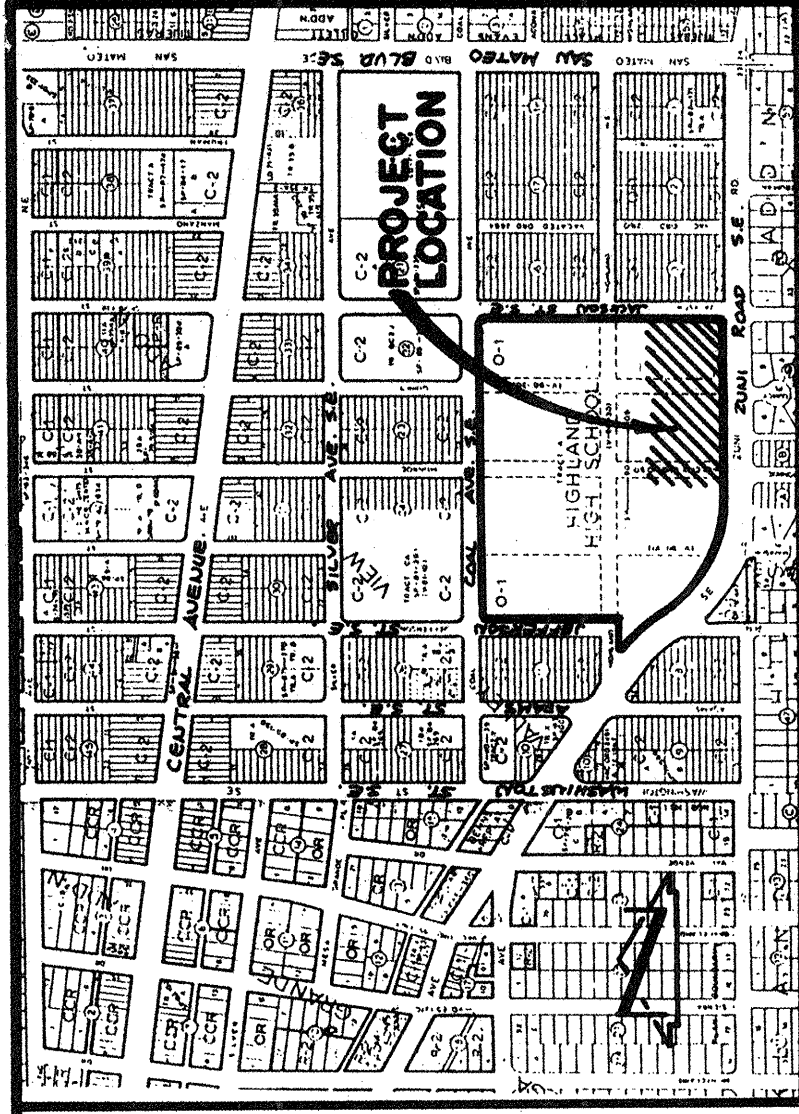
A CHISELED "C" ON TOP OF CURB LOCATED NEAR THE S.E. CORNER OF SITE AS SHOWN ON THE DRAWING BELOW.
ELEVATION = 5260.06 FEET

LEGAL DESCRIPTION

A PORTION OF TRACT A, HIGHLAND HIGH SCHOOL ALBUQUERQUE, NEW MEXICO

KEYED NOTES

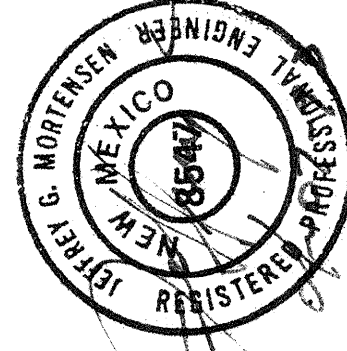
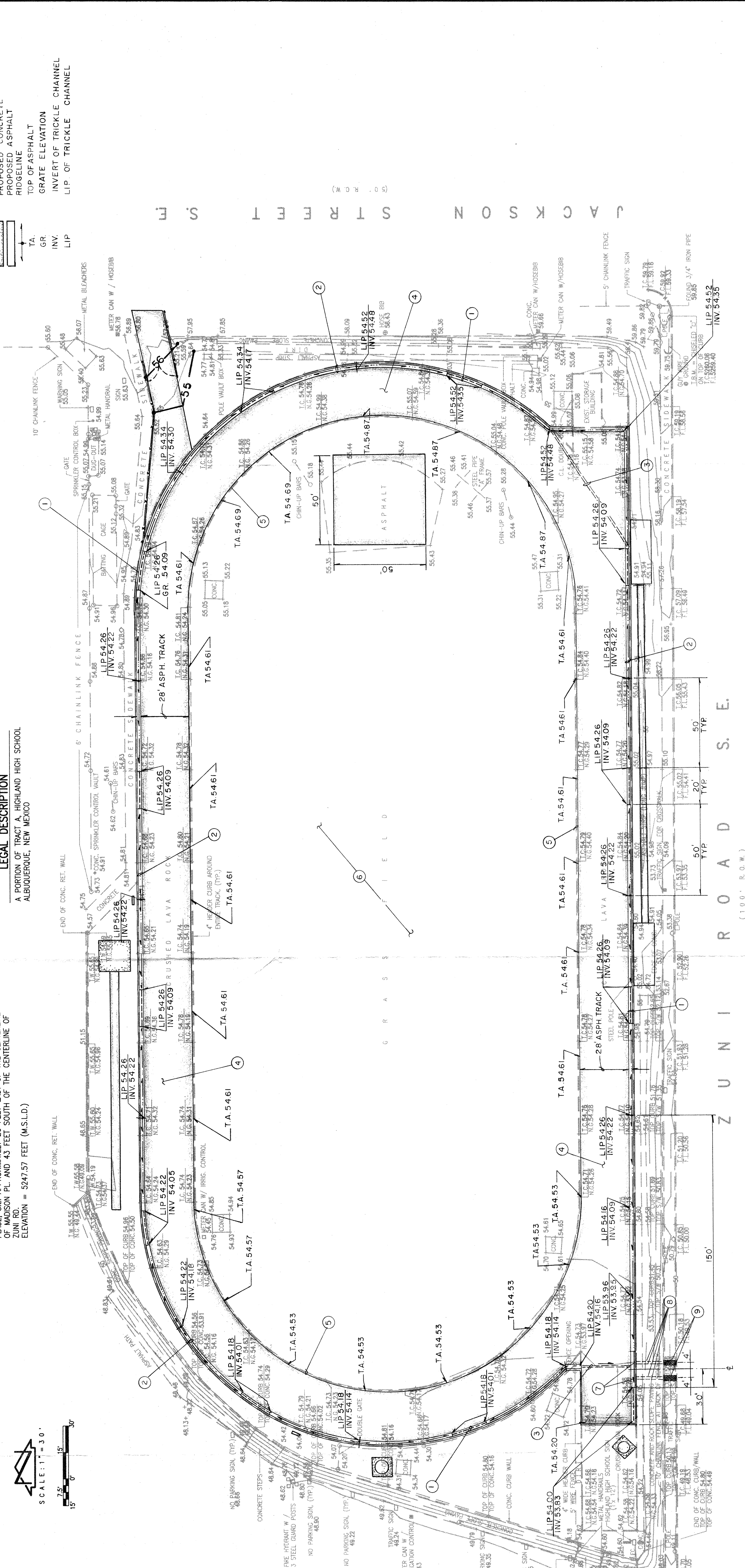
- INSTALL 20' L.F. SLOTTED DRAIN PER TYPICAL SECTION (TYPICAL 12 PLACES).
- CONSTRUCT 2'-0" CONCRETE TRICKLE CHANNEL OVER 12" SMOOTH INTERIOR CORRUGATED HDPE PIPE.
- INSTALL 12" SMOOTH INTERIOR, CORRUGATED HDPE PIPE WITH WATER TIGHT COUPLING BANDS ENTIRELY AROUND RUNNING TRACK.
- NEW TRACK SURFACE.
- EXISTING CURB TO REMAIN.
- EXISTING FIELD TO REMAIN.
- INSTALL 12" X 8" REDUCING TEES (TOTAL OF 4 REQUIRED).
- INSTALL 8" SMOOTH INTERIOR CORRUGATED HDPE, TYPICAL; INSERT INTO BACK OF SIDEWALK CULVERT.
- CONSTRUCT 2'-0" SIDEWALK CULVERT PER C.O.A. STD. DWG. 2236 (TYPICAL OF 2).



VICINITY MAP
NO SCALE

LEGEND

- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- PROPOSED CONTOUR
- PROPOSED SWALE
- TOP OF CURB
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- RIDGELINE
- TOP OF ASPHALT
- GRATE ELEVATION
- INV. OF TRICKLE CHANNEL
- LIP OF TRICKLE CHANNEL



JMA
JEFF MORTENSEN & ASSOCIATES, INC.
6010-B MIDWAY PARK BLVD. N.E.
ALBUQUERQUE, NEW MEXICO 87109
ENGINEERS & SURVEYORS (505)345-4250

GRADING & DRAINAGE PLAN
HIGHLAND HIGH SCHOOL TRACK

DESIGNED BY	JSM/TEW	NO.	DATE	BY	REVISIONS
DRAWN BY	TEW				
APPROVED BY	J.G.M.				

JOB NO.	930211
DATE	4-1993
SHEET	1 OF 2

DRAINAGE PLAN

The following items concerning the Highland High School Track Drainage Plan are contained herewith:

1. Vicinity Map
2. Grading Plan
3. Calculations

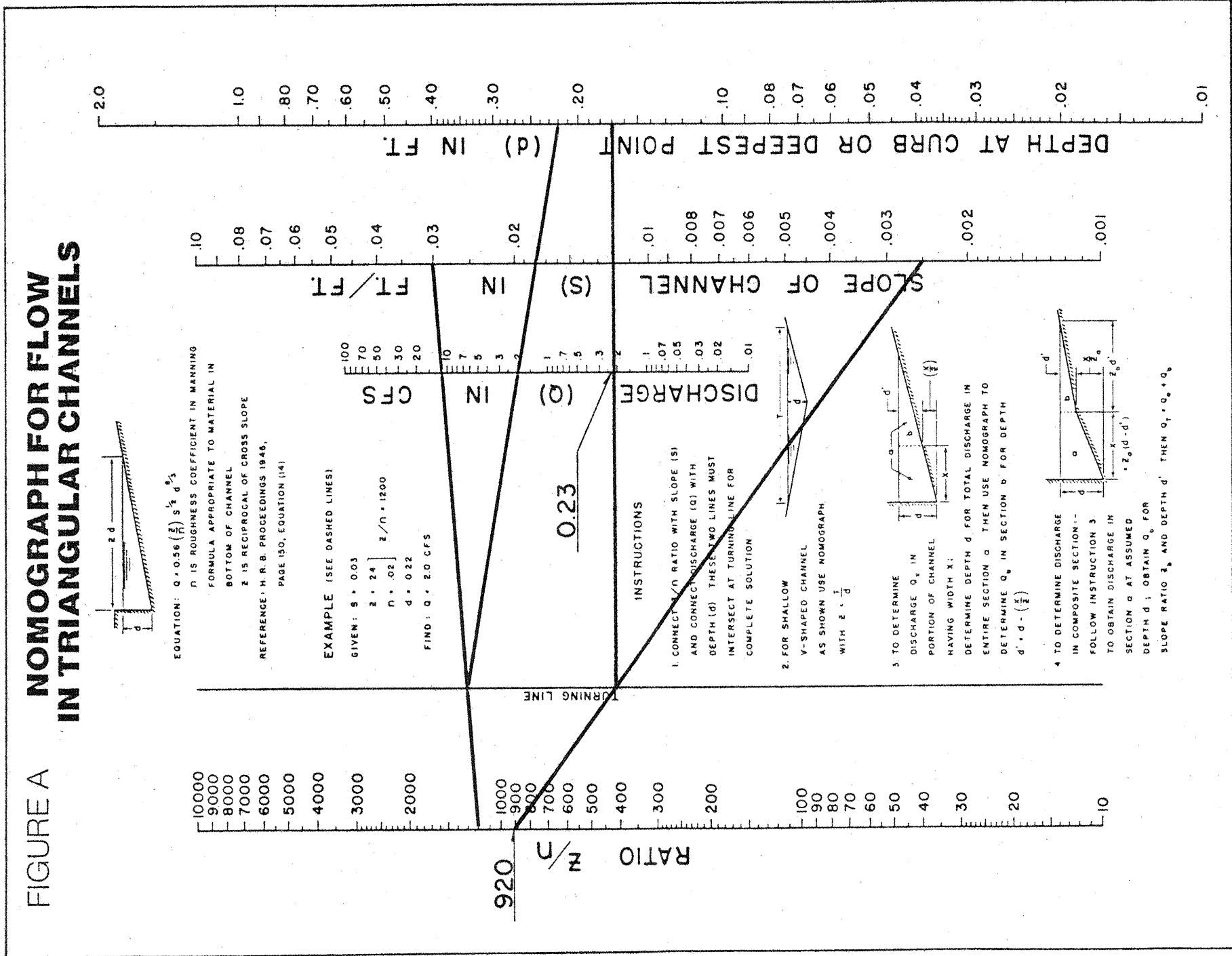
As shown by the Vicinity Map, the site is located at the northwest corner of the intersection of Jackson Street S.E. and Zuni Road S.E. At present the site is developed as an Albuquerque Public Schools High School campus. The portion of the site to receive improvements is the existing track. It is the intent of this project to reconstruct the track itself and provide for drainage of the track area. At present, the runoff generated on the track is retained on the track itself, thereby making the track unusable during certain times of the year.

As shown by Panel 29 of 50 of the National Flood Insurance Program Flood Insurance Rate Map, this site does not lie within a designated flood hazard zone. A "zone A0" (DEPH 1) zone is identified within Zuni Road S.E. This flood zone has been eliminated by the construction of the Highland Detention Pond. Because of this, the free discharge of runoff from this site is appropriate.

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) the limit and character of the proposed improvements, and 5) this plan and as described above. This project consists of the reconstruction of the existing track at Highland High School. Runoff generated by the existing athletic field and the track will be collected in a subsurface drain system and discharged to Zuni Road S.E. A slotted drain and 12" diameter closed conduit system will be used to collect the runoff and discharge that runoff at the southwest corner of the track.

The Calculations which appear hereon analyze the developed condition for the 100-year, 6-hour event. The peak discharge and 40 Acres and Smaller Basins set forth in Section 22.2.2 of the Development Process Manual, Volume II, Design Criteria, dated August, 1991. The capacity of the slotted drain system has been analyzed using design information presented by the manufacturer, ARMCO. The discharge to the street has been analyzed using the Orifice Equation. Four 8" pipes are proposed which have a greater combined capacity than the 100-year design flow of 10.6 cfs. The head computation is based upon the surface level at the top of the 12" pipe less the 1'0" minimum head in the discharge end of the 8" pipes. This represents a change in elevation of approximately 4.2 feet, on the average.

FIGURE A
 NOMOGRAPH FOR FLOW
 IN TRIANGULAR CHANNELS



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3. 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.
4. All construction within public right-of-way shall be performed in accordance with applicable City of Albuquerque Standards and Procedures.
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6. An Excavation/Construction Permit will be required before beginning any work within City right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.
7. Backfill compaction shall be according to _____ street use.
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APPROVALS	NAME	DATE
ACE. / DESIGN	Bernaf Montez	4/19/93
INSPECTOR		
ACE. / FIELD		

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