



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 11, 1995

Susan Alvarez
Leedshill-Herkenhoff
500 Copper Ave. NW
Albuquerque, NM 87102

RE: GRADING/PAVING PLAN FOR RECREATIONAL FIELD @ KENNEDY
MIDDLE SCHOOL (K21-D11) ENGINEER'S STAMP DATED 4/5/95.

Dear Ms. Alvarez:

Based on the information provided on your April 5, 1995
submittal, the above referenced site is approved for
Grading/Paving permit.

Please be advised that Engineer Certification will be required
per the D.P.M. checklist.

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

Sincerely,

Bernie J. Montoya, CE
Engineering Associate

BJM/dl

c: Andrew Garcia
File

DRAINAGE INFORMATION SHEET

PROJECT TITLE: <u>Kennedy Middle School</u>		ZONE ATLAS/DRNG. FILE #: <u>K21-D11</u>
DRB: <u>N/A</u>	EPC #: <u>N/A</u>	WORK ORDER #: <u>N/A</u>
LEGAL DESCRIPTION: <u>Kennedy Middle School as Subdivided from Portions of Tracts 16, 17, 18, 19, and 20 of the Horne Development Plat, filed 5-29-1968, Drawer D-4-4 of Bernalillo County Records.</u>		
CITY ADDRESS: <u>721 Tomasita N.E., Albuquerque, NM</u>		
ENGINEERING FIRM: <u>Leedshill-Herkenhoff, Inc.</u>		CONTACT: <u>Sue Alvarez, P.E.</u>
ADDRESS: <u>500 Copper Ave. N.W., Albuquerque, NM 87103</u>		PHONE: <u>(505) 247-0294</u>
OWNER: <u>City Parks of Albuquerque</u>		CONTACT: <u>Rob McNary</u>
ADDRESS: <u>P. O. Box 1293, Albuquerque, NM 87103</u>		PHONE: <u>(505) 857-8640</u>
ARCHITECT: <u>Morrow & Co.</u>		CONTACT: <u>Liz Reardon</u>
ADDRESS: <u>210 LaVetane, Albuquerque, NM 87108</u>		PHONE: <u>(505) 268-2266</u>
SURVEYOR: <u>Aldrich Land Surveying</u>		CONTACT: <u>Timothy Aldrich</u>
ADDRESS: <u>P. O. Box 30701, Albuquerque, NM 87190</u>		PHONE: <u>(505) 884-1990</u>
CONTRACTOR: _____		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:

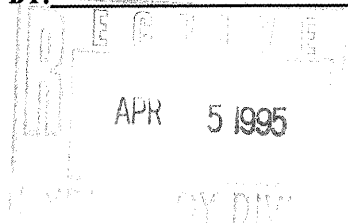
☒ YES
☐ NO
☒ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D APPROVAL
☐ S. DEV. PLAN FOR BLDG. PERMIT
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAN 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 _____ (SPECIFY)

DATE SUBMITTED: _____

BY: _____





LEEDSHILL - HERKENHOFF, INC.

Albuquerque • San Diego • Santa Fe
ENGINEERING COMPUTATIONS

NAME OF PROJECT

Kennedy Middle School

SHEET NUMBER

1 OF 3

COMPUTED BY:

KMJ

CHECKED BY:

ana

JOB NUMBER

95014.12

DATE:

30 MAR 95

	EXISTING	PROPOSED	change
TOTAL AREA	3.70 acres	3.70 acres	
"D" PAVEMENT AREA (IMPERVIOUS)	0	.016 acres (700 sq ft)	
"C" EXPOSED SOIL (BARE GROUND)	3.70 acres	2.11 acres	ADDITIONAL
"B" GRASS AREA	0	1.57 acres	

FROM DPM ZONE 4

	C _B	C _C	C _D	I
100YR	0.52	0.66	0.94	5.61
10YR	0.38	0.59	0.93	3.83

EXISTING

$$Q_{100YR} = (0.66 \times 5.61 \times 3.70) = 13.70 \text{ cfs}$$

$$Q_{10YR} = (0.59 \times 3.83 \times 3.70) = 8.36 \text{ cfs}$$

superceded

PROPOSED

$$Q_{100YR} = (0.52 \times 5.61 \times 1.57) + (0.66 \times 5.61 \times 2.11) + (0.94 \times 5.61 \times .016)$$

$$Q_{100YR} = 12.48 \text{ cfs}$$

$$Q_{10YR} = (0.38 \times 3.83 \times 1.57) + (0.59 \times 3.83 \times 2.11) + (0.93 \times 3.83 \times 0.016)$$

$$Q_{10YR} = 7.11 \text{ cfs}$$

EXISTING WHOLE DRAIN AREA

$$100YR = (0.66 \times 5.61 \times 7.27) = 26.92 \text{ cfs}$$

PROPOSED

$$(0.52 \times 1.57 \times 5.61) + (0.66 \times 5.61 \times 5.7) = 25.68 \text{ cfs}$$



LEEDSHILL - HERKENHOFF, INC.

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ENGINEERING COMPUTATIONS

NAME OF PROJECT

Kennedy Middle School

COMPUTED BY:

K.M.J.

CHECKED BY:

SM

JOB NUMBER

95014.12

SHEET NUMBER

2 OF 3

DATE:

3 APR 95

USING PLANIMETER & SURVEY MAP

$$\text{TOTAL AREA EXISTING} \quad 320 \text{ in}^2 \times (40^2) = 512,000 \text{ sq ft} = \underline{11.75 \text{ acres}}$$

$$\text{"B" GRASS EXISTING} \quad 11.86 \text{ in}^2 \times (40^2) = 18,976 \text{ sq ft} = \underline{0.44 \text{ acres}}$$

$$\text{"C" EXISTING BARE SOIL} \quad 11.75 - 0.44 - 4.28 = \underline{7.03 \text{ acres}}$$

$$\text{"D" PAVEMENT AREA EXISTING} \quad 116.43 \text{ in}^2 \times (40^2) = 186,288 \text{ ft}^2 = \underline{4.28 \text{ acres}}$$

$$\text{TOTAL AREA PROPOSED CONDITIONS} \\ \underline{11.75 \text{ acres}}$$

$$\text{"B" GRASS} = 1.57 + 0.44 = \underline{2.01 \text{ acres}}$$

$$\text{"C" BARE SOIL} = 11.75 - 2.01 - 4.30 = \underline{5.44 \text{ acres}}$$

$$\text{"D" PAVEMENT AREA} = 4.28 \text{ acres} + 0.016 \text{ acres} = \underline{4.30 \text{ acres}}$$

EXISTING CONDITIONS

$$Q_{100 \text{ yr}} = (0.52 \times 5.61 \times 0.44) + (0.66 \times 5.61 \times 7.03) + (0.94 \times 5.61 \times 4.28)$$

$$Q_{100 \text{ yr}} = \underline{49.88 \text{ cfs}}$$

$$Q_{10 \text{ yr}} = (0.38 \times 3.83 \times 0.44) + (0.59 \times 3.83 \times 7.03) + (0.93 \times 3.83 \times 4.28)$$

$$Q_{10 \text{ yr}} = \underline{31.77 \text{ cfs}}$$

PROPOSED CONDITIONS

$$Q_{100 \text{ yr}} = (0.52 \times 5.61 \times 2.01) + (0.66 \times 5.61 \times 5.44) + (0.94 \times 5.61 \times 4.30)$$

$$Q_{100 \text{ yr}} = \underline{48.68 \text{ cfs}}$$

$$Q_{10 \text{ yr}} = (0.38 \times 3.83 \times 2.01) + (0.59 \times 3.83 \times 5.44) + (0.93 \times 3.83 \times 4.30)$$

$$Q_{10 \text{ yr}} = \underline{30.53 \text{ cfs}}$$



LEEDSHILL - HERKENHOFF, INC.

Albuquerque • San Diego • Santa Fe
ENGINEERING COMPUTATIONS

NAME OF PROJECT

KENNEDY MIDDLE SCHOOL

SHEET NUMBER

3 OF 3

COMPUTED BY:

KMJ

CHECKED BY:

ma

JOB NUMBER

95014.12

DATE:

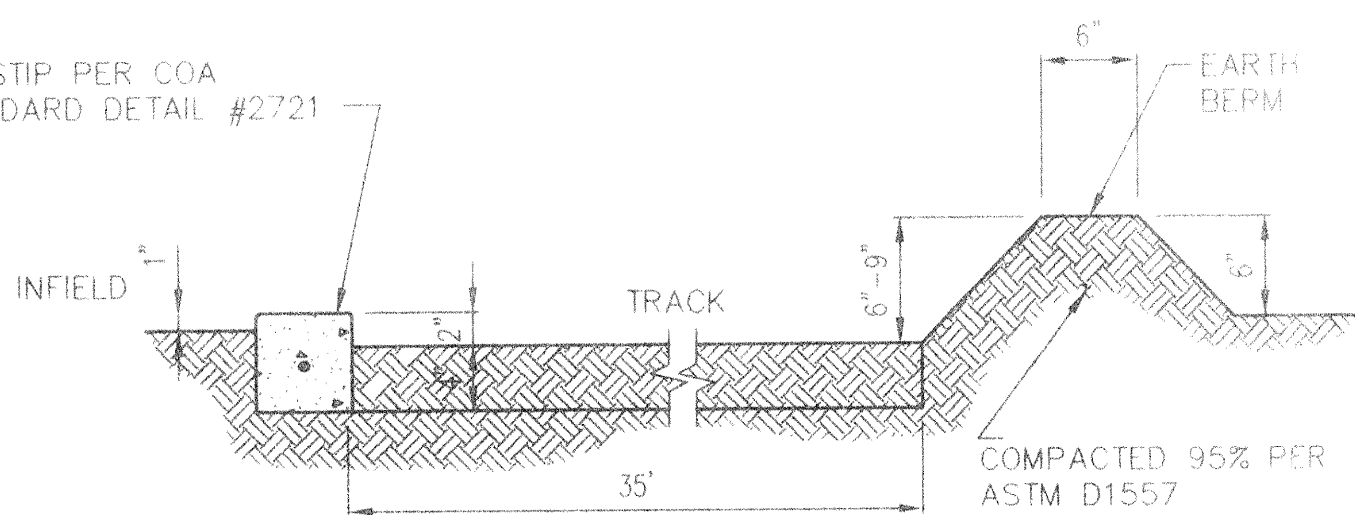
3 APR 95

SUMMARY TABLE

Q 100YRQ 10YR

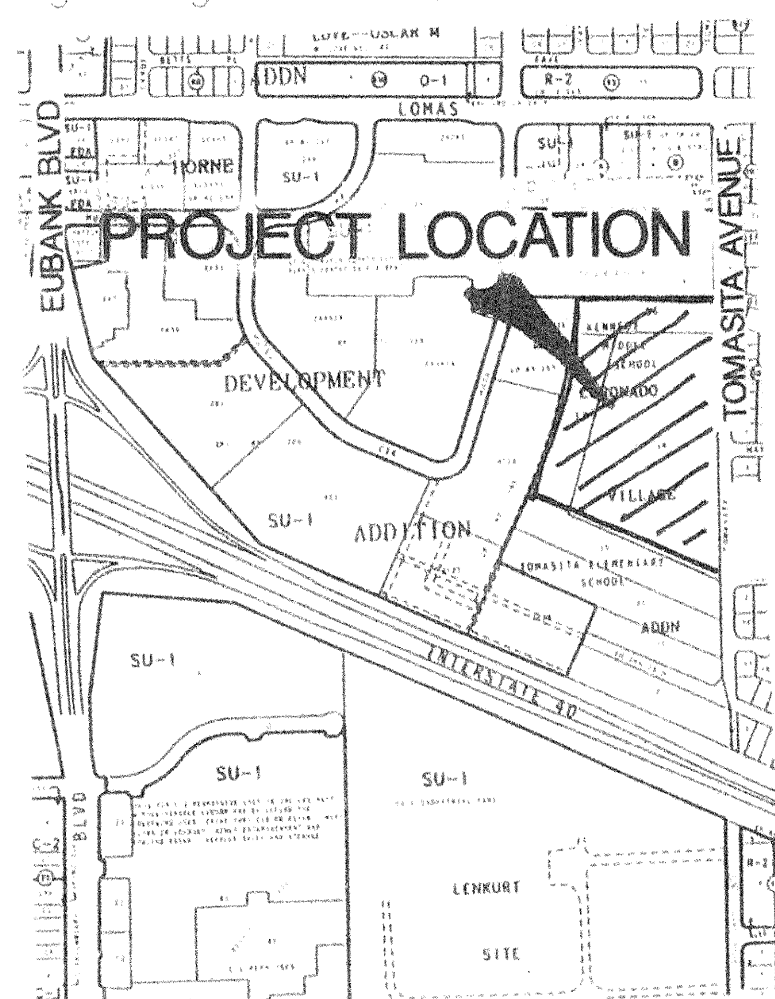
EXISTING CONDITIONS	49.88cfs	31.77cfs
PROPOSED CONDITIONS	48.68cfs	30.53cfs

MOWSTRIP PER COA
STANDARD DETAIL #2721



TYPICAL TRACK CROSS SECTION

SCALE: 1" = 1'-0"



PROJECT LOCATION

VICINITY MAP

SCALE: 1" = 750'

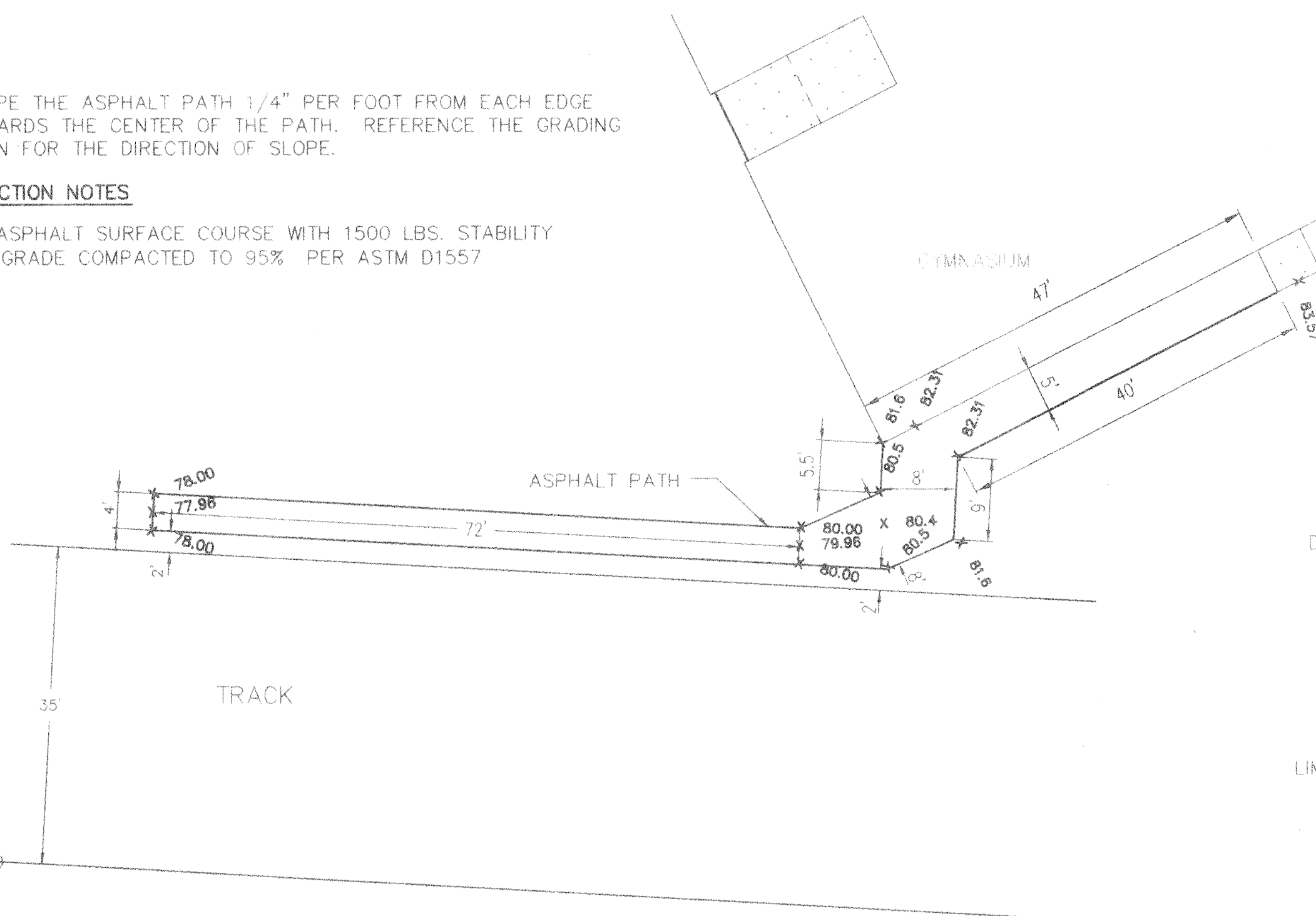
MAP # K-21-Z

NOTE:

1. SLOPE THE ASPHALT PATH 1/4" PER FOOT FROM EACH EDGE TOWARDS THE CENTER OF THE PATH. REFERENCE THE GRADING PLAN FOR THE DIRECTION OF SLOPE.

CONSTRUCTION NOTES

- A. 2" ASPHALT SURFACE COURSE WITH 1500 LBS. STABILITY
- B. SUBGRADE COMPACTED TO 95% PER ASTM D1557



LOCATION DETAIL OF ASPHALT PATH

NOT TO SCALE

GENERAL NOTES

ENGINEER: LEEDSHILL-HERKENHOFF, INC.
500 COPPER AVENUE, NW
ALBUQUERQUE, NEW MEXICO 87103
ATTENTION: SUSAN M. ALVAREZ, P.E.
(505)247-0294

SURVEYOR: SURVEY PROVIDED TO CITY OF ALBUQUERQUE BY
ALDRICH LAND SURVEYING
P.O. BOX 30701
ALBUQUERQUE, NEW MEXICO 87190
(505)884-1990
DATE OF SURVEY: JANUARY 1995

BENCHMARK: A STANDARD A.C.S. BRASS TABLET
STAMPED "5-K21.1979" SET FLUSH WITH THE CURB
WITH THE CURB AT THE SOUTHWEST
CURB RETURN OF THE INTERSECTION
OF LOMAS BLVD. N.E. AND TOMASITA
STREET N.E. ELEVATION = 5498.83 M.S.L.D.

DRAINAGE AREA: 11.75 ACRES, APPROXIMATELY 316,813 SQ. FT.

FLOOD HAZARD: NO PART OF THIS SCHOOL NOR OF THE ADJACENT
PUBLIC ROADWAYS ARE SUBJECT TO A
LOOD HAZARD AREA AS DETERMINED BY
COMMUNITY PANEL NO.350002 0031 C OF
THE FEMA FLOOD INSURANCE RATE MAPS
EFFECTIVE OCTOBER 14, 1983. THE PROJECT
AREA IS INDICATED AS A "ZONE C", AN AREA OF
MINIMAL FLOODING.

LIMITS OF SEEDING: CURB (MOWSTRIP) ALONG INSIDE EDGE OF
TRACK IS ALSO THE OUTER LIMIT OF SEEDING,
EXCEPT AS NOTED.

CONSTRUCTION NOTES

- A. INFIELD OF TRACK TO BE SEEDDED EXCEPT AS NOTED IN BACKSTOP AREAS. (SEE LANDSCAPE PLAN)
- B. BERM CONTINUOUS AROUND OUTSIDE EDGE OF TRACK, EXCEPT AS NOTED IN SOUTHWEST CORNER.
- C. ASPHALT PATH TO ACT AS SWALE FOR ROOF DRAIN ON SOUTHEAST CORNER OF GYMNASIUM.
- D. TRACK TO BE RELOCATED TO MAKE A STANDARD SHAPE, AND ALLOW DRAINAGE. SEE LANDSCAPE PLAN FOR VEGETATION DETAILS.

LEGEND

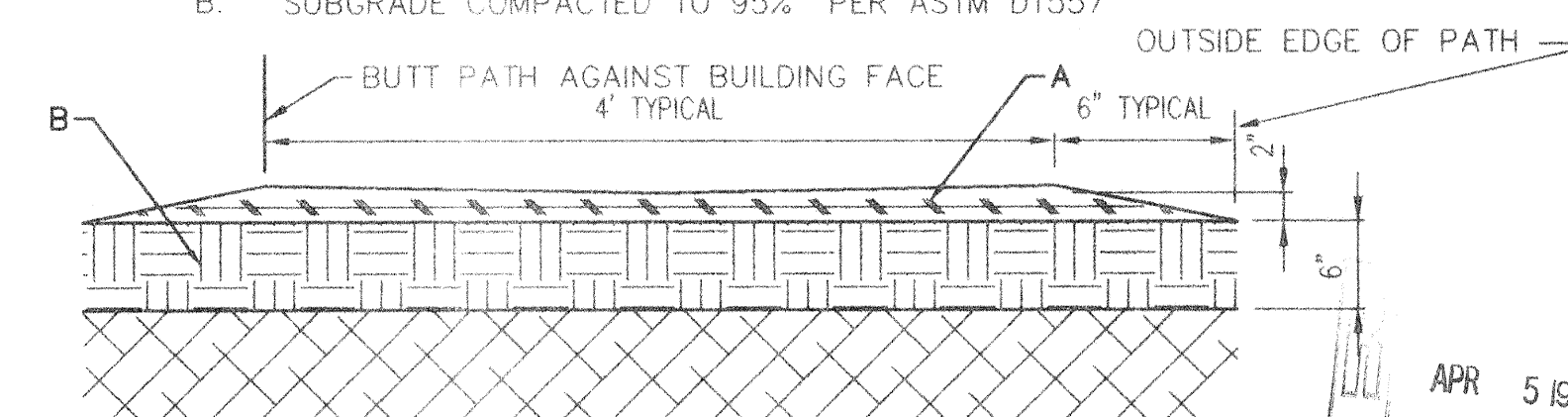
- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING FENCE
- CURB
- LIMITS OF GRADING
- LIMITS OF DRAINAGE AREA
- ASPHALT WORK

NOTE:

1. SLOPE THE ASPHALT PATH 1/4" PER FOOT FROM EACH EDGE TOWARDS THE CENTER OF THE PATH. REFERENCE THE GRADING PLAN FOR THE DIRECTION OF SLOPE.

CONSTRUCTION NOTES

- A. 2" ASPHALT SURFACE COURSE WITH 1500 LBS. STABILITY
- B. SUBGRADE COMPACTED TO 95% PER ASTM D1557



TYPICAL CROSS SECTION OF ASPHALT PAVED SIDEWALK

NOT TO SCALE



MORROW & COMPANY, LTD.
LANDSCAPE ARCHITECTS
210 1st Street N.E.
Albuquerque, N.M. 87102
PH: 505-247-0294 FAX: 505-265-9637

LEEDSHILL-HERKENHOFF INC.
ALBUQUERQUE ENGINEERS SANTA FE ARCHITECTS SAN DIEGO

CITY OF ALBUQUERQUE PARKS/GENERAL SERVICES DESIGN AND DEVELOPMENT					
TITLE: KENNEDY MIDDLE SCHOOL RECREATIONAL FIELD RENOVATION GRADING PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY					
PROJECT NO.	95014.12	MAP NO.	K-21-Z	SHEET	3 OF 6

