City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Ken Schultz
Mayor

UTILITY DEVELOPMENT DIVISION
HYDROLOGY SECTION
(505) 768-2650

January 18, 1988

Charles M. Easterling, P.E.
Easterling & Associates, Inc.
5643 Paradise Boulevard, NW
Albuquerque, New Mexico 87114

RE: REVISED "AS-BUILT" GRADING & DRAINAGE PLAN OF MATTHEW MEADOWS PARK
RECEIVED JANUARY 6, 1988 FOR APPROVAL (G-13/D6A) (W.O. #2861)

Dear Mr. Easterling:

The above referenced submittal, dated January 5, 1988, is approved. Please be advised that all revisions must be provided to this office for review and approval. This plan has been revised three times since the previous approval on December 3, 1986. Your clients need to be aware of this requirement when you are directed to make revisions.

If you have any further questions, call me at 768-2650.

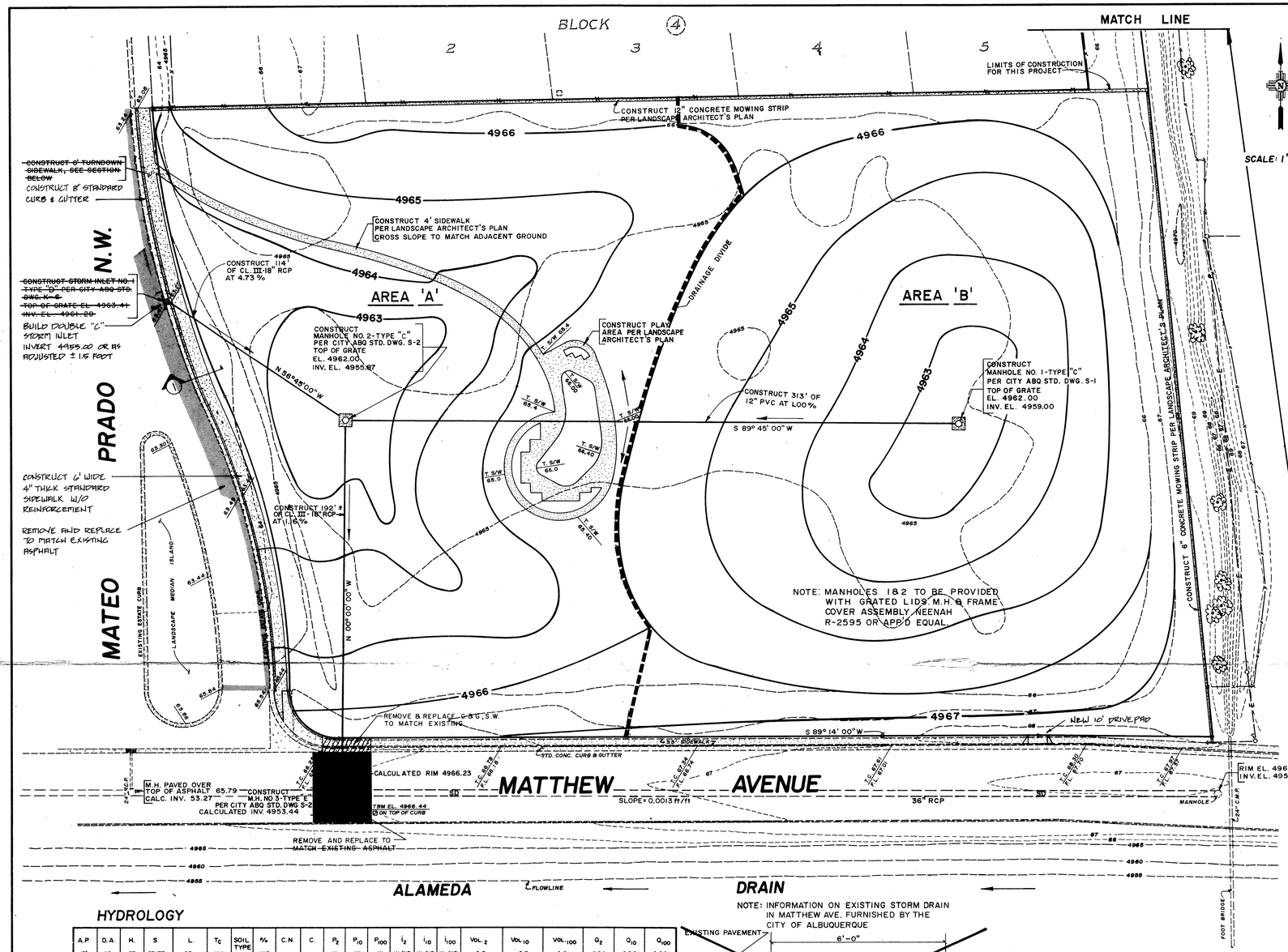
Cordially,

Roger A. Green, PE

Roger A. Green, P.E.
C.E./Hydrology Section

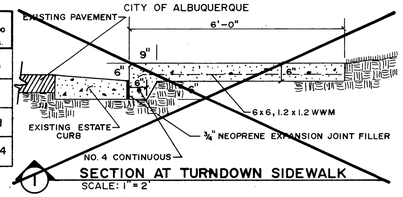
xc: Dennis Wilkinson, Architect
Sandy Zuschlag, Parks & Rec. Dept.

RAG/bsj



HYDROLOGY

	A.P. #	D.A. AC.	H. FT.	S. FT/FT	L. FT.	T_c MIN.	SOIL TYPE	% IMP.	C.N.	C.	P_2 IN.	P_{10} IN.	P_{100} IN.	i_2 IN./HR	i_{10} IN./HR	i_{100} IN./HR	VOL_2 C.F.	VOL_{10} C.F.	VOL_{100} C.F.	Q_2 C.F.S.	Q_{10} C.F.S.	Q_{100} C.F.S.
EXISTING		3.6	3.0	.0105	285	3.5	B	0	70	.40	.98	1.4	2.2	2.1	3.1	4.8	0	784	4182	3.0	4.5	6.9
DEVELOPED	A	1.65	4.0	.0148	270	2.9	B	6	63	.292	.98	1.4	2.2	2.1	3.1	4.8	0	60	878	1.01	1.49	2.31
DEVELOPED	B	1.95	5.0	.0217	230	2.24	B	0	61	.25	.98	1.4	2.2	2.1	3.1	4.8	0	0	849	1.02	1.51	2.34



SECTION AT TURNDOWN SIDEWALK
SCALE: 1" = 2'

NOTE: INFORMATION ON EXISTING STORM DRAIN IN MATTHEW AVE. FURNISHED BY THE CITY OF ALBUQUERQUE

SOILS INFORMATION *FROM SOIL SURVEY, BERNALILLO CO. U.S.D.A., S.C.S.*

SOIL SERIES AND MAP SYMBOLS	DEGREE AND KIND OF LIMITATIONS FOR						SUITABILITY AS SOURCE OF—				SOIL FEATURES AFFECTING—		HYDROLOGIC SOIL GROUP
	SEPTIC TANK ABSORPTION FIELDS	SEWAGE LAGOONS	SHALLOW EXCAVATIONS	DWELLINGS WITHOUT BASEMENTS	SANITARY LANDFILL (TRENCH TYPE)	LOCAL ROAD AND STREETS	ROAD FILL	SAND	GRAVEL	TOPSOIL	POND RESERVOIR AREAS	DIKES, LEVEES, AND OTHER EMBANKMENTS	
*Gila: GA, Gb, Ge, GH---------- For Hanta part of Gil, see Hanta series.	Moderate: perc slowly.	Moderate: seepage.	Slight------	Slight------	Slight------	Moderate: low strength	Fair: low strength.	Poor: excess fines.	Poor: excess fines.	Good------	Seepage----------	Piping----------	B

Gila Series

The Gila series consists of deep, well drained soils that formed in recent alluvium on the flood plains along the Rio Grande and Rio Puerco. Slopes are 0 to 2 percent. The native vegetation is principally alkali sacaton, inland saltgrass, vine-mesquite, and fourwing saltbush. Elevations range from 4,250 to 6,000 feet. The mean annual precipitation is 7 to 10 inches, the mean annual air temperature is 58° to 60° F, and the frost-free season is 185 to 185 days. Gila soils are associated with Agua, Anapra, Hantz, Vinton, and Brazito soils.

In a representative profile the surface layer is brown loam about 7 inches thick. Next is about 37 inches of stratified brown and light yellowish brown very fine sandy loam and sandy loam. Below this to a depth of 60 inches or more is pale brown sand. The soil is moderately alkaline throughout.

Permeability is moderate. Available water capacity is 8 to 11 inches. Effective rooting depth is about 60 inches.

Gila soils are used for irrigated alfalfa, row crops, and pasture. They are also used for range, wildlife habitat, watershed, and community development.

Ge—Gila clay loam. This level soil is in the irrigated Rio Grande Valley. It has a profile similar to that described as representative of the series, but the surface layer differs in texture and is about 10 inches thick. In about 1 percent of the mapped area this soil is moderately saline, and in about 0.5 percent it is moderately alkali affected. Slopes are 0 to 1 percent.

Included with this soil in mapping are small areas of a Gila soil that has a sandy clay loam surface layer and areas of Brazito fine sandy loam.

Runoff is slow, and the hazard of water erosion is slight. This soil is used for irrigated alfalfa, row crops, and pasture. It is also used for wildlife habitat and community development. Irrigated capability unit I.

APPROVED FOR DRAINAGE
1-18-88
DATE
SIGNATURE
TITLE

TEXT

EXISTING CONDITIONS:

THE TOTAL 3.6 ACRES IS UNDEVELOPED AT THIS TIME AND THERE ARE NO OFF-SITE FLOWS ONTO THE PROPERTY EXCEPT FROM THE EAST HALF OF MATEO PRADO, N.W. AS IT TRAVERSES THE PROJECT SITE.

DEVELOPED CONDITIONS:

THE DEVELOPED SITE WILL CONSIST OF TWO (2) DRAINAGE AREAS. EACH AREA WILL BE GRADED TO SLOPE TO THE MIDDLE WHERE THERE WILL BE A DRAINAGE INLET WHICH WILL TAKE ALL RUNOFF WATER AND DRAIN IT INTO AN EXISTING 36" STORM DRAIN IN MATTHEW AVENUE. THE SIDEWALK AND PLAY AREA ARE THE ONLY IMPERVIOUS AREAS ON THE SITE WHICH INCREASES THE IMPERVIOUS AREA SHOWN IN AREA A FROM 0% TO 6%. THE REMAINDER OF THE SITE WILL ALL BE GRASS. DRAINAGE FROM MATEO PRADO, N.W. WILL BE INTERCEPTED BY A CURB AND COLLECTED BY A CITY STANDARD TYPE "D" INLET.

LEGAL DESCRIPTION:

TRACTS A, B AND E OF THE AMENDED MATTHEW MEADOW, A SUBDIVISION ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

BENCHMARK:

T.B.M. LOCATED ON MATTHEW AVENUE WEST OF THE PARK SITE ON THE WEST SIDE OF THE STREET. EL. 4966.44.

GENERAL NOTE:

DURING GRADING OPERATIONS CONTRACTOR SHALL STOCKPILE ALL EXCESS SOIL IN ONE LOCATION TO BE REMOVED BY THE CITY OF ALBUQUERQUE PARKS AND RECREATION DEPARTMENT.

STORM DRAIN OUTLET HYDRAULICS:

CAPACITY = 4.1 cfs
DEV. Q_{100} = 4.6 cfs

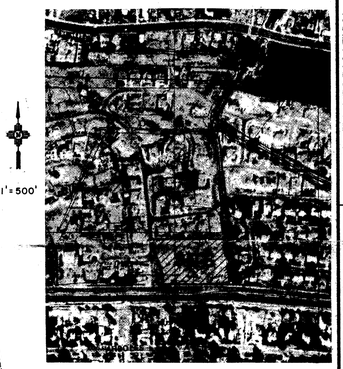
o SOME MINOR PONDING MAY OCCUR BRIEFLY DURING A 100-YEAR DESIGN STORM.

NOTES

1. 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.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1985 EDITION," ~~EXCEPT AS SPECIAL CONDITIONS.~~
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
6. MAINTENANCE OF THE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
8. DISPOSAL OF ALL WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AS SPECIFIED IN SECTION 6.14 OF THE GENERAL CONDITIONS IN THE CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1985 EDITION.
9. ~~ALL CONCRETE DUMPSTER PADS SHALL BE SIX INCH REINFORCED CONCRETE (6" X 6', 10 GA. W.W.M.).~~
10. **OWNERSHIP OF DOCUMENTS:** THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF EASTERLING & ASSOCIATES, INC. AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF EASTERLING & ASSOCIATES, INC.
11. **CONSTRUCTION SAFETY:** THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE CONTRACTOR'S RESPONSIBILITY.
12. **EROSION CONTROL:** THE SITE WILL BE FULLY DEVELOPED IMMEDIATELY. EROSION PROBLEMS GENERATED BY PHASED DEVELOPMENT WILL NOT, THEREFORE, BE A PROBLEM.
13. **CONSTRUCTION PHASE:** THE CONTRACTOR SHALL EXERCISE REASONABLE CARE DURING CONSTRUCTION TO PREVENT THE MOVEMENT OF SEDIMENT FROM THE SITE INTO THE STREET. LOOSE SOIL STOCKPILES IN THE STREET DURING UTILITY CONNECTION ACTIVITIES SHALL BE PROTECTED FROM BEING CARRIED DOWNSTREAM BY FLOWING WATER IN THE STREET.

VICINITY MAP *ZONE ATLAS MAP NO. G-13*

FLOOD HAZARD MAP & OFFSITE FLOWS *FROM F.E.M.A. MAP NO. 22*



SOILS MAP *FROM SOIL SURVEY, BERN. CO. U.S.D.A., S.C.S.*

1"=2000'

AS BUILT INFORMATION

CONTRACTOR

WORK FINISHED BY:

ACCEPTANCE BY:

CERTIFICATION BY:

DRAWINGS BY:

MICRO-FILM INFORMATION

RECORDED BY:

NO.

DATE

BENCH MARKS

5-G13A - LOCATED ON THE NORTH SIDE OF CANDELARIA BLVD. 6.4' EAST OF THE DRIVEWAY ENTRANCE TO VALLEY HIGH SCHOOL. THE STATION IS A STANDARD ACS BRASS TABLET STAMPED "5-G13A 1990" SET FLUSH WITH THE GROUND. ELEV. 4967.94

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

CHARLES A. EASTERLING, NEW MEXICO, 5412, REGISTERED PROFESSIONAL ENGINEER
1-6-88
1-20-86

EASTERLING & ASSOCIATES
CONSULTING ENGINEERS
ALBUQUERQUE, NEW MEXICO

NO.	DATE	REMARKS REVISIONS	BY
1	1-6-88	GENERAL REVISIONS, NOTES ETC.	DLS
2	3-1-87	SIDEWALK SECTION, EXISTING CONTOURS, STORM DRAIN	DLS
3	7-16-87		

DENNIS C. WILKINSON AND ASSOCIATES
LANDSCAPE ARCHITECTURE • DEVELOPMENT PLANNING
P.O. BOX 1542 CORRALES, NEW MEXICO 87048 505/897-7430

RECEIVED
JAN 06 1988
HYDROLOGY SECTION

CITY OF ALBUQUERQUE
PARKS & RECREATION DEPARTMENT
DESIGN & DEVELOPMENT DIVISION

TITLE: **MATTHEW MEADOWS PARK**
Grading & Drainage Plan

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. Design			Traffic		
A.C. E.-Hydrology			Water		
PARKS DEV.		7/28/87			

DRAWING NO. 2001 | MAP NO. G-13-Z16 | SHEET 2 OF 1

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