SITE AREA: 0.4943 AC = 21,533 SF

LEGAL DESCRIPTION: THE EASTERLY 70.00 FEET OF TRACT 4AA-5A-2A, JOURNAL CENTER.

BENCHMARK: THE EAST RIM OF THE SANITARY SEWER MANHOLE IN MASTHEAD ST NE LOCATED 450 FEET WEST OF THE WEST I-25 FRONTAGE ROAD. ELEVATION = 5172.75

SURVEY: BEARINGS & DISTANCES ARE PER RECORD. TOPOGRAPHIC SURVEY PROVIDED BY OWNER.

FLOOD HAZARD NOTE: AS SHOWN ON FIRM PANEL 9, THIS SITE IS NOT IN AN IDENTIFIED FLOOD HAZARD AREA.

SOILS: FROM THE SCS SOIL SURVEY OF BERNALILLO COUNTY (MAP 21), THIS EMBUDO GRAVELLY FINE SANDY LOAM SOIL ASSOCIATION IS CLASSIFIED AS A TYPE 'B' HYDROLOGIC SOIL GROUP.

OFFSITE FLOW: THIS SITE DOES NOT ACCEPT ANY OFFSITE FLOWS. THE ADJACENT PARKING LOT TO THE EAST DISCHARGES FLOW TO MASTHEAD ST NE VIA THE EXISTING DRIVEPAD. THE LAND TO THE SOUTH HAS AN EARTH SWALE WHICH CARRIES FLOW TO THE WEST.

HYDROLOGY

PRECIPITATION ZONE: 2 AREA: 0.4943 AC

EXISTING CONDITIONS: UNDEVELOPED

LAND TREATMENT: 100% 'A'

PEAK DISCHARGE = (1.56 CFS/AC)(0.4943 AC)

 $Q_{100} = 0.8 \text{ CFS}$

 $Q_{10} = (0.38)(0.4943) = 0.2 \text{ CFS}$

 $V_{100} = (0.53 \text{ INCHES})(21,533 \text{ SF})/(12)$

 $V_{100} = 951 \text{ CFS}$

 $V_{10} = (951)(0.13)/(0.53) = 233 \text{ CF}$

PROPOSED CONDITIONS: ASPHALT PARKING LOT WITH IRRIGATED GRASS LANDSCAPING ALONG PERIMETER OF SITE. ALL DEVELOPED FLOWS WILL DISCHARGE THROUGH THE SIDEWALK CULVERT AT THE SITE'S NORTHWEST CORNER.

LAND TREATMENT: 23% 'B'

77% 'D' 100%

PEAK DISCHARGE = (2.28)(0.1137)+(4.70)(0.3806)

 $Q_{100} = 2.0 \text{ CFS}$

 $Q_{100} = (0.95)(0.1137) + (3.14)(0.3806)$

 $Q_{10} = 1.3 \text{ CFS}$

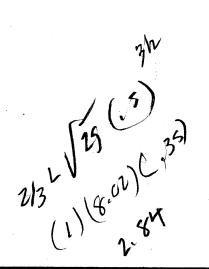
 $V_{100} = (0.78/12)(4,953)+(2.12/12)(16,580)$

 $V_{100} = 3,250 \text{ CF}$

 $V_{10} = (0.28/12)(4,953)+(1.34/12)(16,580)$

 $V_{10} = 1,970 \text{ CF}$

PEAK DISCHARGE VALUE INCREASES BY 1.2 CFS



LEGEND

PROPOSED CONTOUR

TC 71.5

PROPOSED TOP OF CURB ELEVATION

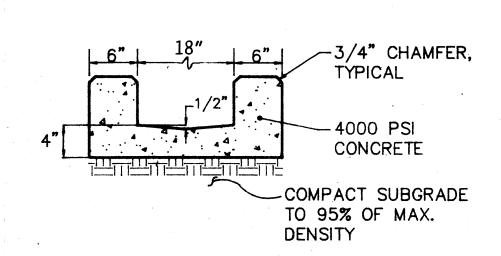
FLOW DIRECTION ARROW

EXISTING FLOW PATTERN

PROPOSED CURB——SEE DETAIL

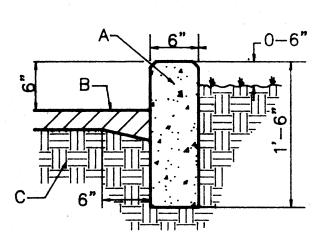
NOTES

- 1. CONTRACTOR SHALL PROVIDE SMOOTH EASY—RIDING CONNECTION WHERE NEW PAVING MEETS EXISTING ASPHALT SURFACE. THIS CONNECTION SHALL BE A HIGH POINT WITH EXISTING DRAINAGE PATTERNS UNCHANGED.
- 2. SEE SITE PLAN FOR PARKING LOT LAYOUT & DIMENSIONS.



SECTION A-A NO SCALE

NOTE: OUTLET CHANNEL TO BE BUILT FROM END OF SIDEWALK CULVERT TO MASTHEAD ST NE.



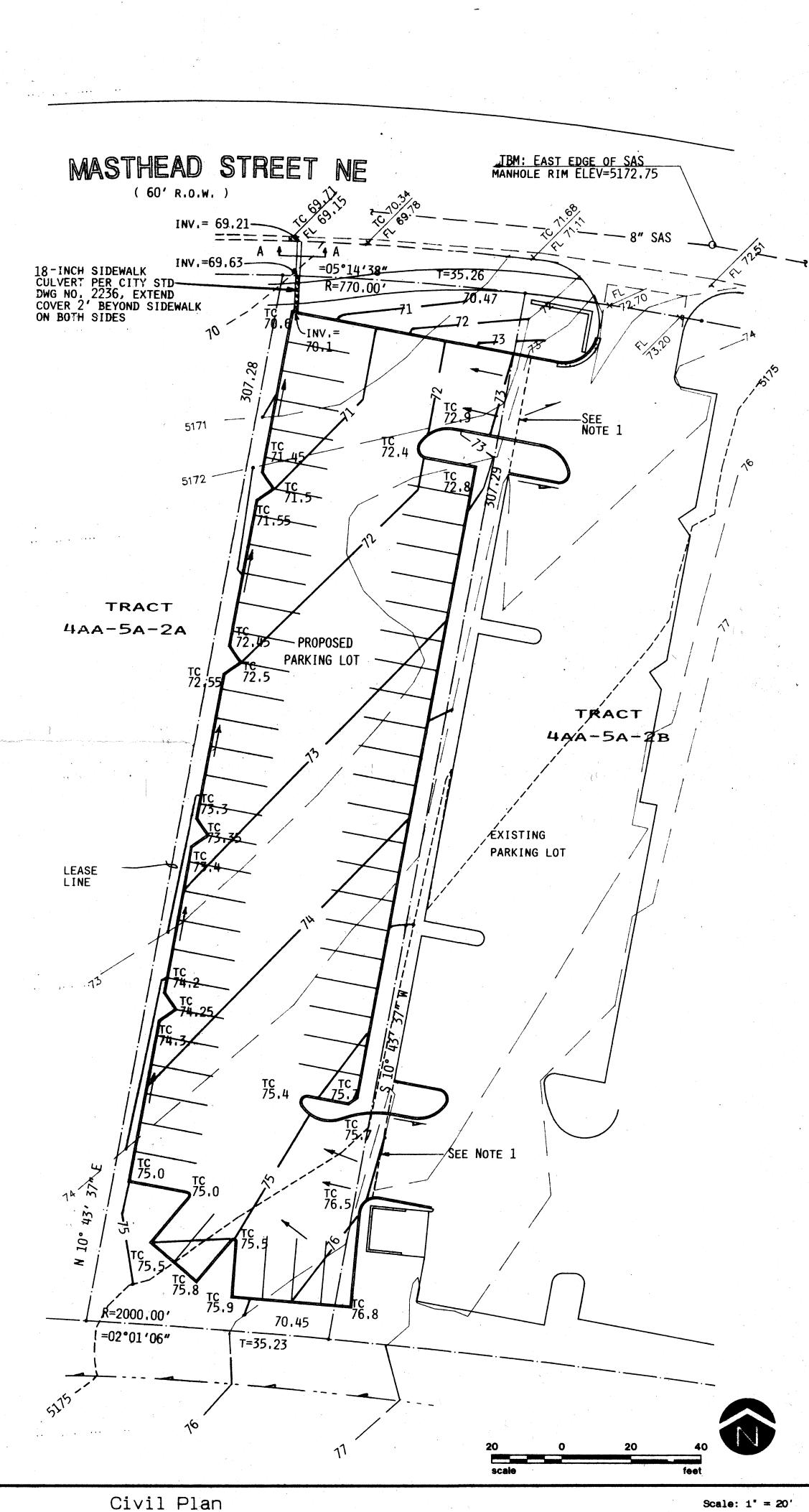
HEADER CURB NO SCALE

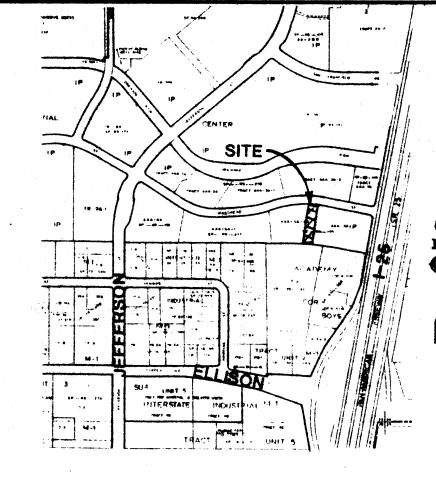
- A. 6" X 18" CONCRETE CURB, 3000 PSI MIN, WITH CHAMFERED EDGES.
- B. 2 1/2" ASPHALTIC CONCRETE 1500 LBS STABILITY WITH THICKENED EDGE.
- C. 6" COMPACTED SUBGRADE, 95% COMPACTION.

SIDEWALK CULVERT CAPACITY

MANNING EQ.: $Q = (1.49/n) \text{ AR}^{2/3} \text{ S}^{1/2}$ n = 0.015 SLOPE = (70.1-69.21)/21 = 4.2%WIDTH = 1.5 FT

FOR Y = 0.3 FT $Q = (1.49/.015)(.45)(.45/2.1)^{2/3}(.042)^{1/2}$ $Q = 3.2 \text{ CFS} (Q_{100} = 2.0 \text{ CFS})$ ENTRANCE: $Q = C \text{ A} \sqrt{2GH}$ $Q = (0.6)(.75)(32.2)^{\frac{1}{2}} = 2.5 \text{ CFS}$





D-17 Facilities

1"=750'± VICINITY MAP

PUBLIC R.O.W CONSTRUCTION NOTES

- 1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH "CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS PUBLIC WORKS CONSTRUCTION, 1986."
- 2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE, 260—1990, FOR LOCATION OF EXISTING LINES.
- 3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZON—TAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
- 4. BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE (RESIDENTIAL).
- 5. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
- 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.

EROSION CONTROL NOTES

- 1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY. THIS CAN BE ACCOMPLISHED BY BUILDING TEMPORARY BERMS ALONG THE WEST & NORTH PROPERTY LINES AND WETTING THE SOIL TO PREVENT BLOWING.
- 2. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT IT IS NOT SUSCEPTIBLE TO WASHING DOWN THE STREET.
- 3. THE CONTRACTOR SHALL SECURE A TOP— SOIL DISTURBANCE PERMIT PRIOR TO BEGINNING CONSTRUCTION.

Vi Vi		D-17		
	PERMIT NO.	MAP NO		
	A.C.E./FIELD			
	INSPECTOR			
. :	A.C.E./DESIGN	Berny Montaga	10/15/92	
;	APPROVALS	NAME	DATE	

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DEVELOPMENT
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Engineen:

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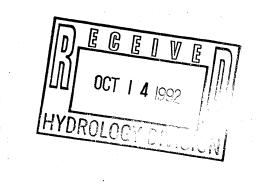
10519 Norther

10-9-92

10-13-92

Notes:

10-13-92 REVISED 18-INCH SW CULVERT WIDTH



Revisions:
Number: | Date:

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Date:	30 Aug 1992

Project Number:

PARKING EXPANSION UNIVERSITY OF PHOENIX

Sheet Title:

CIVIL SITE PLAN DRAINAGE PLAN

Sheet Number:

