HYDROLOGY

E17/D 12

ONE PLAN

E.IJ D.P1

TEMPLE LODGE #42

IPLAN

F.P.S

GRADING PLAN * DRAINAGE PLAN

SCALE: 1" = 20'-0"

RECEIVED
SEP 13 1982
HYDROLOGY SECTION

1	9/13/82	NEW GRADING PLAN

ALBUQUERQUE, NEW MEXICO

TEMPLE LODGE NO. 6
NA & NA

LOT 8-B, BLOCK A, UNIT 1, INTERSTATE INDUSTRIAL PARK.

LEGAL DESCRIPTION:

BENCH MARK:

ASC BM NO. 2-E17 LOCATED ON THE SOUTH SIDE OF OSUNA ROAD N.E., ABOUT 820 FT. EAST OF THE CROSSING OF THE NORTH DIVERSION CHANNEL. A SQUARE CHISELED ON TOP OF CONCRETE CURB SOUTH SIDE OF STREET. ELEV. = 6098.025 FT.

FLOOD HAZARD BOUNDARY MAP - PANEL NO. 18.

CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL DURING CONSTRUCTION, INCLUDING TWA PROVISIONS THAT MAY NEED TO BE TAKEN TO DIRECT TWA SEDIMENT FROM ENTERING THE CITY DIGITAL TWA.

NOTES:

1. SURVEY INFORMATION PROVIDED BY D.T. MORRISON.
2. FLOOD HAZARD BOUNDARY MAP - PANEL NO. 18.
3. CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL DURING CONSTRUCTION, INCLUDING TWA PROVISIONS THAT MAY NEED TO BE TAKEN TO DIRECT TWA SEDIMENT FROM ENTERING THE CITY DIGITAL TWA.

STREET ELEV. = 6098.025 FT.

A SQUARE CHISELED ON TOP OF CONCRETE CURB SOUTH SIDE OF ABOUT 820 FT. EAST OF THE CROSSING OF THE NORTH DIVERSION CHANNEL.

ASC BM NO. 2-E17 LOCATED ON THE SOUTH SIDE OF OSUNA ROAD N.E.

BENCH MARK:

LOT 8-B, BLOCK A, UNIT 1, INTERSTATE INDUSTRIAL PARK.

LEGAL DESCRIPTION:

PROJECT BENCH MARK

SURVEY CVS L.S. NO. 7010
3½" BRASS MTH ALLOY
Elev. = 6091.9

CALCULATIONS:

soil series = Emb
Hydrologic Soil Group = B
A = 1.604 acres
2-Hour, 100-Year Rainfall = 2.5 in. Figure 22.2 D-1
I = 2.5 in./hr. Figure 22.2 D-2
I = (2.5)(2.5) = 6.24 in./hr.

EXISTING ON-SITE CONDITIONS:

Percent Impervious = 0%
C = 0.34 Figure 22.2 C-1
Q(100) = (0.34)(6.4)(1.604) = 3.64 cfs
Q(10) = (0.25)(2.5)(1.604) = 1.17 cfs
Direct Runoff = 0.32 in. Figure 22.2 C-4
CN = 70 Figure 22.2 C-2
V(100) = (0.32)(1.604)(43560) SI = 5038 cu. ft.
V(10) = (0.25)(5038) = 1259 cu. ft.

PROPOSED ON-SITE CONDITIONS:

Percent Impervious = 84%
C = 0.80 Figure 22.2 C-1
Q(100) = (0.80)(6.4)(1.604) = 8.21 cfs
Q(10) = (0.25)(2.5)(1.604) = 4.80 cfs
CN = 95 Figure 22.2 C-2
Direct Runoff = 1.14 in. Figure 22.2 C-4
V(100) = (1.14)(1.604)(43560)\12 = 8125 cu. ft.
V(10) = (0.25)(8125) = 2338 cu. ft.

DRAINAGE PLAN

TEMPLE LODGE NO. 6

The site is located north of Osuna Road approximately 100 feet west of Academy Parkway Southbound. Proposed development of the site includes grading of 1.2 percent. Proposed and slopes flow east to west with an average of 2 percent. The site is currently undeveloped and slopes flow east to west in an average 1.604 acres. The site is located within an existing certified area channel which is located on the west side of the MAMCFC North Diversion Channel. The low-west flood is confined to this channel. Flows are intercepted by either a) a curb inlet on a roadway located east of the channel.

Off-site runoff has an impact on the proposed development. Runoff enters the site by sheet flow from the north, south and west of the site and discharges onto Osuna Road at the eastern edge of the site is collected east of the southeast corner of the site and flows southerly and westerly to the channel.

Off-site runoff has an impact on the proposed development. Runoff enters the site by sheet flow from the north, south and west of the site and discharges onto Osuna Road at the eastern edge of the site is collected east of the southeast corner of the site and flows southerly and westerly to the channel.

VICINITY MAP

SITE LOCATION

T-11-N
R-3-E

LEGEND

- EXISTING SPOT ELEVATION
- 6104
- NEW SPOT ELEVATION
- 96.40
- EXISTING CONTOURS
- 96
- NEW CONTOURS
- 96

TEMPLE LODGE NO. 6

S=0.010

S=0.008

S=0.010

S=0.008

S=0.010

S=0.008