

GENERAL NOTES:

- 1.) NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY.
- 2.) NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD WITHIN THE SUBJECT SITE OTHER THAN THOSE SHOWN ON THE PLAT OF RECORD.
- 3.) REFER TO "ARCHITECTURAL SITE PLAN" FOR FIELD LAYOUT OF THE PROPOSED IMPROVEMENTS.

EROSION CONTROL MEASURES:

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT FOR STORM RUN-OFF DURING CONSTRUCTION; HE SHALL INSURE THAT THE FOLLOWING MEASURES ARE TAKEN:

- 1.) ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS RE-QUIRED TO PREVENT STORM RUNOFF FROM LEAVING THE SITE AND ENTERING ADJACENT PROPERTIES.
- 2.) ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER PUBLIC STREETS.
- 3.) THE CONTRACTOR SHALL IMMEDIATELY AND THROUGHLY REMOVE ANY AND ALL SEDIMENT WITHIN PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SITE AND DEPOSITED THERE.

CONSTRUCTION NOTES:

- 1.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 765-1234 FOR LOCATION OF EXIST-ING UTILITIES.
- 2.) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS; SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
- 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 CITY RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PRO-CEDURES.

LEGEND:

= TOP OF CUPB ELEVATION

= CURB FLOW LINE ELEVATION

= EXISTILIG OR PROPOSED CONCRETE

---- G8 ---- EXISTING CONTOUR

= 71.0 = PROPOSED CONTOUR

-x---x = EXISTING FENCE

= PROPOSED SPOT ELEVATION = PROPOSED LIMITS OF HEW PAVING

= EXISTING SPOT ELEVATION

VICINITY MAP

DRAINAGE COMMENTS:

THE POLLOWING ITEMS CONCERNING THE SUBJECT SITE ARE CONTAINED ON THE GRADING AND DRAINAGE PLAN AS SHOWN HEREON:

- 1.) SITE GRADING AND DRAINAGE PLAN
- 2.) VICINITY MAP
- 4.) LIMITS AND CHARACTER OF THE EXISTING AND PROPOSED IMPROVEMENTS

5.) HYDRAULIC DRAINAGE CALCULATIONS

AS SHOWN ON THE VICINITY MAP HEREON THE SUBJECT SITE IS LOCATED ON THE NORTH SIDE OF GRIEGOS ROAD N.W., AND APPROXIMATELY 580.0' WEST OF THE INTERSECTION OF FOURTH STREET N.W. AND GRIEGOS ROAD N.W., IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, (CITY ZONE ATLAS MAP NO. "F-14-Z").

THE PROJECT SITE, (1.) DOES NOT LIE WITHIN A PLOOD PLAIN, (2.) DOES NOT LIE ADJACENT TO A NATURAL OR ARTIFICIAL WATER COURSE, (3.) HAS NO

BASED ON A SITE INVESTIGATION, IT HAS BEEN DETERMINED THAT THE FREE DISCHARGE OF SURFACE FLOWS OF THE EXISTING AND PROPOSED QUANTITIES HAVE NO ADVERSE AFFECT ON DOWNSTREAM PROPERTIES.

DRAINAGE CALCULATIONS:

- I. REFERENCES:
 - A. CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL (DPM), VOL. 2, DESIGN CRITERIA, CHAPTER 22, DRAINAGE, FLOOD CONTROL AND EROSION CONTROL.
 - B. SOIL SURVEY OF BERNALILLO COUNTY AND PARTS OF SANDOVAL AND VALENCIA COUNTIES, NEW MEXICO, UNITED STATES DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, (SCS SHEET No. 20).
- II. GENERAL INFORMATION:
 - A. SOIL TYPE: SOIL TYPE IS "Gb", GILA LOAM, HYDROLOGIC SOIL GROUP "B".
 - B. IMPERVIOUSNESS:

SITE AREA = 0.470 ACRES, (20,469.0 SQ. FT.). PRESENT UNDEVELOPED "C" FACTOR = 0.48

- C. TYPE OF SURFACE (DEVELOPED): EXISTING
 - HARD SURFACED (ASPHALT/GRAVEL) = 0.02 AC. = 04 % X (C=0.95) = 0.04 = 0.06 AC. = 13 % X (C=0.90) = 0.12BUILDING ROOF AREA = 0.04 AC. = 09 % X (C=0.25) = 0.02LANDSCAPED AREA = 0.35 AC. = 74 % X (C=0.40) = 0.30UNDEVELOPED AREA

AVERAGE "WEIGHTED" "C"= 0.48

C-1. TYPE OF SURFACE (PROPOSED DEVELOPMENT):

 $R_6 = 2.2$ INCHES.

HARD SURFACED (ASPHALT/CONC.) = 9.17 AC. = 36% X (C=0.95) = 0.34 = 0.08 AC. = 17% X (C=0.90) = 0.15BUILDING ROOF AREA = 0.07 AC. = 15% X (C=0.25) = 0.04LANDSCAPED AREA = 0.15 Ac. = 32% X (C=0.40) = 0.13UNDEVELOPED AREA

AVERAGE WEIGHTED "C" = 0.66

700 100 0 100 100

LEGAL DESCRIPTION

0 3 E

HEGCO MAP 33

UNFORM PROPERTY COSE
P Q14-Q51

MAP AMERDED THROUGH

F-14-Z

D. RAINFALL, 100-YR., 6-HR., R6; (SEE REF. A., PLATE 22.2 D-1)

- E. TIME OF CONCENTRATION, TC = TEN (10) MINUTES FOR A SITE THIS SIZE.
- F. RAINFALL INTENSITY, "I", (SEE REF. A., PLATE 22.2 D-2) $I = R_6 \times 6.84 \times T_6$ $^{-0.51} = 2.2 \times 6.84 \times (10)$ $^{-0.51} = 4.65 \text{IN./HR.}$
- PEAK DISCHARGE: (Q = CIA)

UNDEVELOPED: $Q_{100} = 0.48 \times 4.65 \times 0.470 = 1.05 \text{ cfs}$ $Q_{10} = 0.657 \times 1.05 = 0.69 \text{ cfs}$

DEVELOPED: $Q_{100} = 0.66 \times 4.65 \times 0.470 = 1.44 \text{ cfs}$

 $Q_{10} = 0.657 \times 1.44 = 0.95 \text{ cfs}$

PEAK VOLUME:

A. EXISTING CONDITIONS: $V_{100} = 0.48 \text{ X}$ (2.2 /12) X 20,469.0 = 1,801.3 CU. FT.

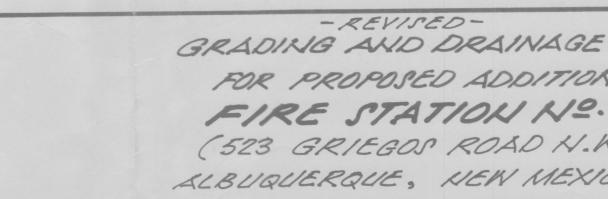
V₁₀ = 0.657 X 1,801.3 = 1,183.4 CU. FT.

B. DEVELOPED CONDITIONS:

 $V_{100} = 0.66 \text{ x}$ (2.2 /12) X 20,469.0 = 2,476.7 CU. FT. $V_{10} = 0.657 \times 2,476.7 = 1,627.2 \text{ CU. FT.}$

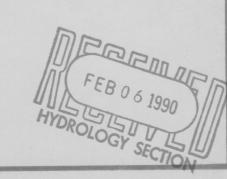
NOTICE TO CONTRACTOR:

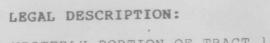
- 1.) AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- 2.) ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH "CONTRACT DOCUMENTS FOR CITY WIDE UTILITIES AND CASH PAVING NO. 31".
- 3.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE (765-1234), FOR LOCATION OF EXISTING OF SURFACE AND SUBSURFACE 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 FOR THE PROJECT.



GRADING AND DRAINAGE PLAN FOR PROPOSED ADDITION TO FIRE STATION Nº. 6 (523 GRIEGOS ROAD N.W.) ALBUQUERQUE, NEW MEXICO MOVEMBER, 1989

(REVISED: 02-01-90)





WESTERLY PORTION OF TRACT 150-B, M.R.G.C.D. MAP NO. 32, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

BENCH MARK REFERENCE:

ASSENTAL PARES

BUILDING

FIN. FLR. = 4971.00

NAVD-1929 ELEVATIONS, AS REFERENCED ON THE TOPOGRAPHY SURVEY MAP OF THE SUBJECT SITE PERFORMED BY THE CITY OF ALBUQUERQUE - SURVEY DEPART-MENT, DATED: FEBRUARY, 1986; PROJECT BENCH MARK AS SHOWN ON THE PLAN HEREON.

ENGINEER'S SEAL

