

S. INV. FL.=56.25

ESQUELA DEL SOL AREA =0.61ac.

PRECIPITATION: 360= 2.35in.

1440= 2.75in 10day = 3.95in.

DISCHARGE AND VOLUME OF RUN-OFF GENERATED.

EXCESS PRECIPITATION: PEAK DISCHARGE:

DATED 1997, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF

DEVELOPED FLOW VOLUME FROM THE CLASSROOM AREA IS 2092 CF. THE PLAYGROUD

CONCERN FOR THE CHILDRENS WELFARE DOES NOT ALLOW FOR THE FINISH FLOOR

ACRES AND SMALLER BASINS AS SET FORTH IN THE MANUAL VOLUME II, DESIGN CRITERIA

PONDING AREA WILL PROVIDE 2150 CF. A RETENTION POND IS PROPOSED WITHIN THE PLAYGROUND AREA BECAUSE THE EXISTING GRADES WILL NOT

ALLOW FOR THE DEVELOPED FLOWS TO BE ROUTED TO GRANITE AVENUE NW.

TO BE ELEVATED SO AS TO OBTAIN SUFFICIENT SLOPE TO DRAIN TO GRANITE

AVENUE NW. NO OFF-SITE FLOWS ENTER THE SITE. THE PROCEDURE FOR 40

1.56 cfs/ac. TREATMENT A 0.53in. 2.28 cfs/ac. TREATMENT B 0.78in. 3.14 cfs/ac. TREATMENT C 1.13in. TREATMENT D 2.12in. 4.70 cfs/ac. PROPOSED CONDITIONS: EXISTING CONDITIONS: AREA

TREATMENT A Oac. Oac. TREATMENT B 0.116ac. TREATMENT C 0.51ac. 0.495ac. TREATMENT D 0.1ac.

EXISTING EXCESS PRECIPITATION:

EXISTING PEAK DISCHARGE:

PROPOSED PEAK DISCHARGE:

Weighted E = 0.53)x0.00)+ 0.78)x0.00)+1.13)x0.51)+2.12)x0.10)0.61ac. V100-360 = 1.30)x0.61)/12 = 0.0660ac-f = 2877 cf

Q100 = 1.56 $\times$ 0.00)+ 2.28 $\times$ 0.00)+3.14 $\times$ 0.51)+4.70 $\times$ 0.10)=2.07cfs PROPOSED EXCESS PRECIPITATION:

Weighted E = 0.53)x0.00)+ 0.78)x0.00)+1.13)x0.12)+2.12)x0.49)0.61ac. V100-360 = 1.93)x0.61) / 12.0 = 0.0983ac-f = 4282 cf

V100-1440 = 0.10)+0.49 x 2.75- 2.35)/12 = 0.1148ac-f= 5001 cf V100-10day = 0.10)+0.49x 3.95- 2.35)/12 = 0.1642ac-f= 7157 cf

Q100 = 1.56 $\times 0.00$ + 2.28 $\times 0.00$ + 3.14 $\times 0.12$ + 4.70 $\times 0.49$ = 2.68cfs

## NOTE TO CONTRACTOR

1. An excavation/construction permit will be required before beginning any work within the City right-of-way. Approved copy of this plan must be submitted at the time of application for permit.

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- 2. All work detailed in this plan to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with City of Albuquerque Standard Specification for Public Works
- 3. Two working days prior to any excavation, contractor must contact line locating Services (760—1990) for locating existing sub—surface
- 4. Prior to construction, the contractor shall excavate and verify the horizonal and vertical location of all potential constructions; Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay to the subject project.
- 5. Backfill compaction shall be according to commercial use or soils report(s) recommendations.
- 6. 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.
- 7. Maintenance of this facilities shall be the responsibility of the owner of the property it serves

## EROSION CONTROL MEASURES:

- 1. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT OF STORM RUN-OFF DURING CONSTRUCTION, HE SHALL ASSURE THAT THE FOLLOWING MEASURES ARE TAKEN:
  - A. ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY TEMPORARY BERMS, DIKES, SWALES, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUN-OFF FROM LEAVING THE SITE AND ENTERING ADJACENT PROPERTIES.
  - B. ADJACENT PUBLIC RIGHT-OF-WAY SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUN-OFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER THE PUBLIC STREETS.
- 2. THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY OR ALL SEDIMENT WITHIN THE PUBLIC STREETS THAT HAVE BEEN ERODED FROM THE SITE AND DEPOSITED THEREON.

NOTE: PROPOSED GRADE STAKING IS CRITICAL FOR PROPER DRAINAGE CONCEPT TO FUNCTION

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HEADWAL

**OUTLET INVERT** 

ELEV.=56.00

Q= Ca ( 2gh) 1/2 h=.5 C= .67 g=32.2 a=.5

4'x4' RIPRAP SECTION

D50=6",DEPTH=12'

Q = (.67)(.5')(5.6745)

Q = 1.90 cfs > 1.53 cfs

24"

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OUTLET INVERT

ELEV. = 56.00 ---

N.T.S.

2~#4 EACH SIDE

3~#4 CONTINUOUS-

TALL LINER-

AFI 140 NS

EQUIVALENT

SYMBOL LEGEND

EXISTING BLOCK WALL

PROPOSED CONTOUR PROPOSED SPOT ELEVATION **57.50** 

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SCALE : 1" = 20'

ABBREVIATION LEGEND

- TC = 57.25TOP OF CURB - FL = 56.57FLOWLINE - TW = 59.00TOP OF WALL EXISTING OR PROPOSED CONCRETE SURFACE

AS-BUILT SPOT ELEVATIONS 57.50

AS-BUILT DRAINAGE GRADING PLAN FOR MONTESSORI ESQUELA DE

REMOVE EXISTING

CURB CUTS & REPLACE-

WITH STANDARD CURB &

GUTTER PER CITY STANDARDS

AS INDICATED BY THE AS-BUILT INFORMATION SHOWN HEREON, THE MONTESSORI ESQUELA DEL SOL @ 1114 7TH STREET N.W. HAS BEEN GRADED AND DRAINED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLAN DATED 5/8/2000 WITH THE FOLLOWING DEVIATION

1. THE PROPOSED PONDING AREA WITHIN THE PLAYGROUND AREA WAS CHANGED TO AN UNDERGROUND FRENCH DRAIN TYPE SYSTEM SHOWN ON SHEET 2 OF 2. CONVERSATION WITH MR. BRAD BINGHAM FROM CITY HYDROLOGY DEPARTMENT ALLOWED THE CHANGE

THIS DEVIATION DOES NOT IMPACT THE DRAINAGE CONCEPT IN ANY WAY, THE SITE DRAINAGE WILL FUNCTION IN ACCORDANCE WITH THE PATTERN ESTABLISHED BY THE APPROVED PLAN. THEREFORE A PERMANENT CERTIFICATE OF OCCUPANCY IS HIGHLY RECOMMENDED. THE AS-BUILT INFORMATION SHOWN HEREON WAS OBTAINED BY ME OR UNDER MY DIRECT SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF BY KNOWLEDGE AND BELIEF.

R.G. LEE JR. NMPE # 1872



57.25

PNO #4 PEBA

PRAINACE TACTUITIES VITINIA CITY DIGUT	UE 1747
DRAINAGE FACILITIES WITHIN CITY RIGHT HYDROLOGY APPROVAL	UL MHI
HTURULUU: AFFRUVAL	DATE
INSPECTION APPROVAL	
CONSTRUCTION SECTION	DATE

CONSTRUCTION SECTION/PERMITS

LEGAL DESCRIPTION PLAT OF TRACT A OF LANDS OF ESQUELA DEL SOL, BERNALILLO COUNTY, ALBUQUERQUE NEW MEXICO.

BENCHMARK:

TOP OF EXISTING MANHOLE JUST EAST OF SITE ON GRANITE AVE. NW; ELEVATION: 4957.31 (M.S.L.), PER CITY OF ALBUQUERQUE ENGINEERING DEPARTMENT INFORMATION.

 $\neq$ DRAINAGE AND GRADING

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JULY 2001

REVISIONS

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SHEET NO.