

## 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:
  - 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 PROPERTY.
  - 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 THERE.

## GRADING/DRAINAGE PLAN

THE FOLLOWING ITEMS CONCERNING TRACT R-2-B LANDS OF SOUTHWESTERN CONSTRUCTION COMPANY (700 LOMAS N.E.) ARE CONTAINED HEREON:

## EXISTING CONDITIONS

AS SHOWN BY THE VICINITY MAP, THE SITE CONTAINS 1.5545 ACRES MORE OR LESS. THE SITE IS LOCATED SOUTH OF THE INTERSECTION OF LOMAS BLVD. N.E. AND WOODWARD PLACE N.E. AND INTO WOODWARD CT. N.E. THE SITE IN ITS EXISTING CONDITION IS USED AS GRAVEL EMPLOYEE PARKING LOT FOR THE HEART HOSPITAL OF NEW MEXICO EMPLOYEES. THE SITE DRAINS FROM EAST TO WEST. ACCORDING TO THE FLOOD INSURANCE RATE MAPS, PANEL 0334E, REVISED NOVEMBER 19, 2003, THIS SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE.

## PROPOSED CONDITIONS

AS SHOWN BY THE GRADING/PAVING PLAN, THE PROJECT WILL CONSIST OF PAVING THE PARKING LOT. THE DEVELOPED FLOWS WILL BE DIVIDED INTO TWO BASINS (BASIN A WILL EXIT THROUGH THE EXISTING DRIVEPAD ON WOODWARD CT. N.E.) AND (BASIN B WILL BE DIRECTED TO A PROPOSED RUNDOWN AT THE SOUTHWEST CORNER OF THE SITE AND DOWN INTO A SMALL PONDING AREA WHICH THEN WILL OUTLET INTO WOODWARD PLACE N.E. VIA A 24" SIDEWALK CULVERT). THE CALCULATIONS WHICH APPEAR HEREON; ANALYZE BOTH THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT. THE PROCEDURE FOR 40-ACRES AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2 HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME II, DESIGN CRITERIA DATED 1997, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME GENERATED.

PROJECT AREA = 0.32568 ac.  
"BASIN "A" HEART HOSPITAL OF NEW MEXICO"  
ZONE 2  
PRECIPITATION: 360 = 2.35 in.  
1440 = 2.75 in.  
10day = 3.95 in.

EXCESS PRECIPITATION:	PEAK DISCHARGE:
TREATMENT A 0.53 in.	1.56 cfs/ac.
TREATMENT B 0.78 in.	2.28 cfs/ac.
TREATMENT C 1.13 in.	3.14 cfs/ac.
TREATMENT D 2.12 in.	4.70 cfs/ac.

EXISTING CONDITIONS:	PROPOSED CONDITIONS:
TREATMENT A 0 ac.	0 ac.
TREATMENT B 0 ac.	0 ac.
TREATMENT C 0.32568 ac.	0.0522 ac.
TREATMENT D 0 ac.	0.80921 ac.

EXISTING EXCESS PRECIPITATION:  
Weighted E = (0.53)(0.00)(0.78)(0.00)(1.13)(0.33)(2.12)(0.00) / 0.33 ac.  
= 1.13 in.  
V100-360 = (1.13)(0.33) / 12 = 0.030668 ac-ft = 1336 CF

EXISTING PEAK DISCHARGE:  
Q100 = (1.56)(0.00)(0.00)(0.00)(0.00)(0.33)(0.78)(0.00) = 1.02 CFS

PROPOSED EXCESS PRECIPITATION:  
Weighted E = (0.53)(0.00)(0.78)(0.00)(1.13)(0.05)(2.12)(0.81) / 0.33 ac.  
= 5.45 in.  
V100-360 = (5.45)(0.33) / 12 = 0.147876 ac-ft = 6441 CF

V100-1440 = (0.15)(0.81)(2.75 - 2.35) / 12 = 0.174850 ac-ft = 7616 CF  
V100-10day = (0.15)(0.81)(3.95 - 2.35) / 12 = 0.255771 ac-ft = 11141 CF

PROPOSED PEAK DISCHARGE:  
Q100 = (1.56)(0.00)(0.00)(0.00)(0.00)(0.05)(0.78)(0.81) = 3.97 CFS  
INCREASE 3.97 CFS - 1.02 CFS = 2.95 CFS

PROJECT AREA = 1.22882 ac.  
"BASIN "B" HEART HOSPITAL OF NEW MEXICO"  
ZONE 2  
PRECIPITATION: 360 = 2.35 in.  
1440 = 2.75 in.  
10day = 3.95 in.

EXCESS PRECIPITATION:	PEAK DISCHARGE:
TREATMENT A 0.53 in.	1.56 cfs/ac.
TREATMENT B 0.78 in.	2.28 cfs/ac.
TREATMENT C 1.13 in.	3.14 cfs/ac.
TREATMENT D 2.12 in.	4.70 cfs/ac.

EXISTING CONDITIONS:	PROPOSED CONDITIONS:
TREATMENT A 0 ac.	0 ac.
TREATMENT B 0 ac.	0 ac.
TREATMENT C 1.22882 ac.	0.41961 ac.
TREATMENT D 0 ac.	0.80921 ac.

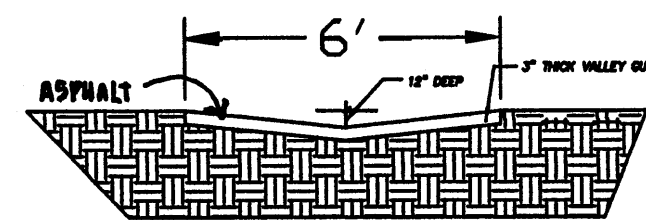
EXISTING EXCESS PRECIPITATION:  
Weighted E = (0.53)(0.00)(0.78)(0.00)(1.13)(1.23)(2.12)(0.00) / 1.23 ac.  
= 1.13 in.  
V100-360 = (1.13)(1.23) / 12 = 0.115714 ac-ft = 5040 CF

EXISTING PEAK DISCHARGE:  
Q100 = (1.56)(0.00)(0.00)(0.00)(0.00)(1.13)(0.78)(0.00) = 3.86 CFS

PROPOSED EXCESS PRECIPITATION:  
Weighted E = (0.53)(0.00)(0.78)(0.00)(1.13)(0.42)(2.12)(0.81) / 1.23 ac.  
= 1.78 in.  
V100-360 = (1.78)(1.23) / 12 = 0.182474 ac-ft = 7949 CF

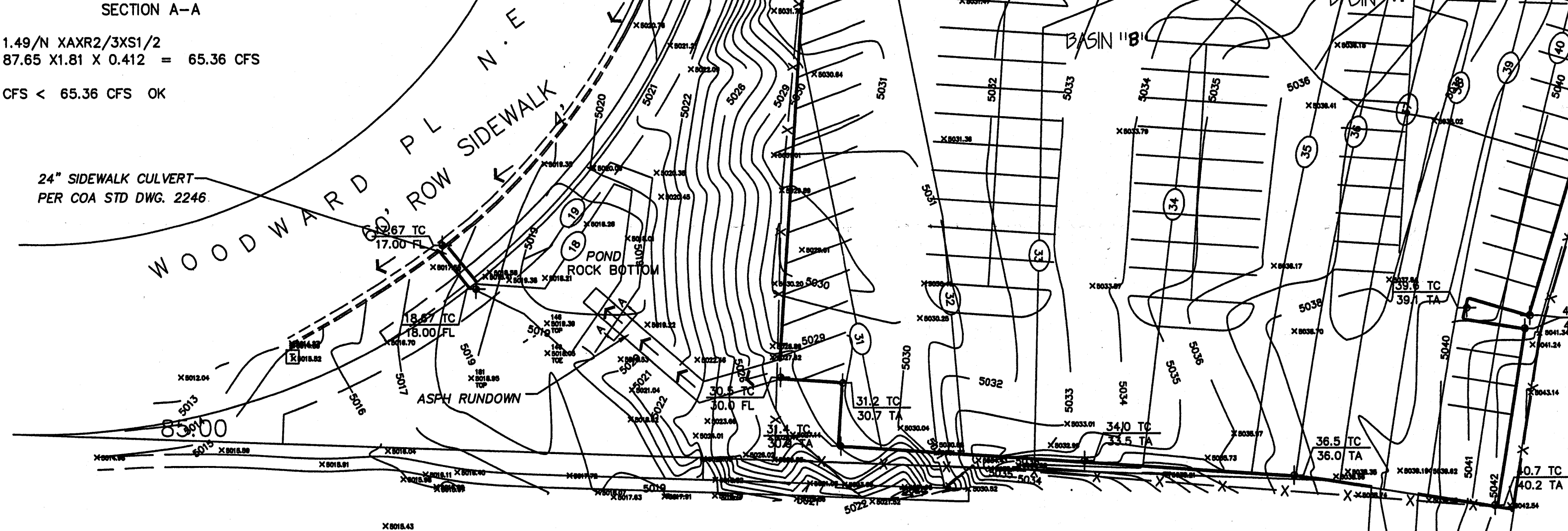
V100-1440 = (0.18)(0.81)(2.75 - 2.35) / 12 = 0.209447 ac-ft = 9124 CF  
V100-10day = (0.18)(0.81)(3.95 - 2.35) / 12 = 0.290358 ac-ft = 12848 CF

PROPOSED PEAK DISCHARGE:  
Q100 = (1.56)(0.00)(0.00)(0.00)(0.00)(1.13)(0.42)(0.81) = 5.12 CFS  
INCREASE 5.12 CFS - 3.86 CFS = 1.26 CFS

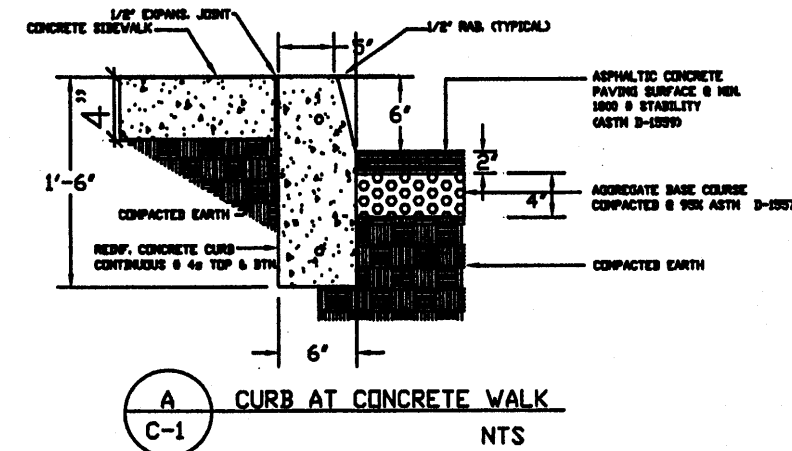


Q = 1.49/N XAXR2/3XS1/2  
Q = 87.65 X1.81 X 0.412 = 65.36 CFS  
5.12 CFS < 65.36 CFS OK

24" SIDEWALK CULVERT  
PER COA STD DWG. 2246



NOTE:  
ALL INTERNAL ISLANDS TO BE PAINTED  
ALL PERIMETER HEADER CURB TO BE CONCRETE



TYPICAL CURB  
NTS

APPROVAL	NAME	DATE	TITLE:
INSPECTOR			HEART HOSPITAL OF N.M.
			MAP NUMBER: J15

## NOTE TO CONTRACTOR:

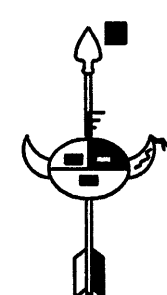
1. An excavation/construction permit will be required before beginning any work within the City right-of-way. Approved copy of this plan must be submitted at the time of application for permit.
2. All work detailed in this plan to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with City of Albuquerque Standard Specification for Public Works Construction.
3. Two working days prior to any excavation, contractor must contact line locating Services (760-1990) for locating existing sub-surface utilities.
4. Prior to construction, the contractor shall excavate and verify the horizontal 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

## ABBREVIATION LEGEND

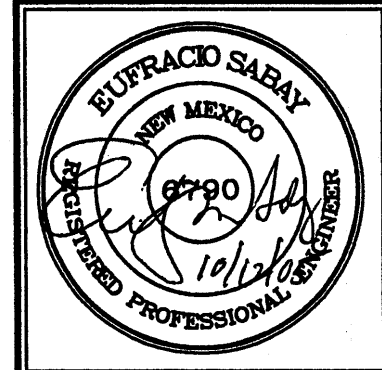
TOP OF CONC PAD = TC  
TOP OF CURB = TC  
TOP OF ASPHALT = TA  
TOP OF BERM = TB  
BOTTOM OF POND = BP  
FINISHED FLOOR = FF  
BDC = BACK OF CURB  
BC = DRIVECUT  
DI = DRAINAGE INLET  
EA = EDGE OF ASPHALT  
EC = EDGE OF CONCRETE  
FL = FLOW LINE  
FP = FENCE POST  
G = GROUND  
HP = HIGH POINT

## SYMBOL LEGEND

EXISTING CONTOUR  
EXISTING SPOT ELEVATION  
DESIGN CONTOUR  
PROPOSED SPOT ELEVATION  
PROPERTY LINE  
EASEMENT LINE  
FLOW DIRECTION

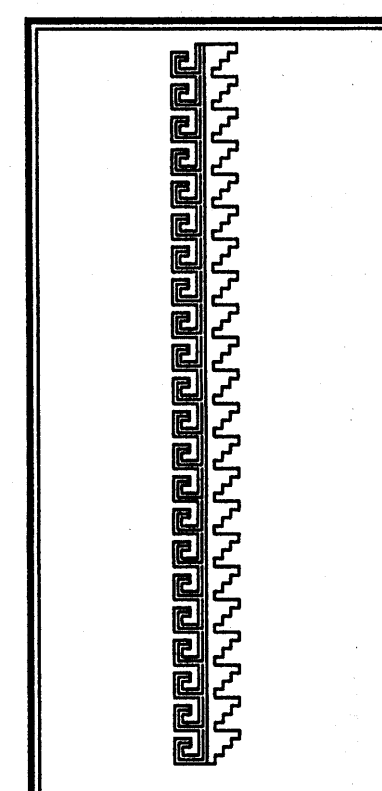


## GRADING/PAVING PLAN



JOB NO:	XXXXXX
DATE:	SEPTEMBER 2005
REVISIONS	

Sheet Title  
**GRADING & PAVING PLAN**  
Drawn By: HTH & B.M. Checked By: ES



Job Title  
HEART HOSPITAL OF NEW MEXICO  
EMPLOYEE PARKING LOT  
ALBUQUERQUE, NEW MEXICO

SHEET NO.  
GP