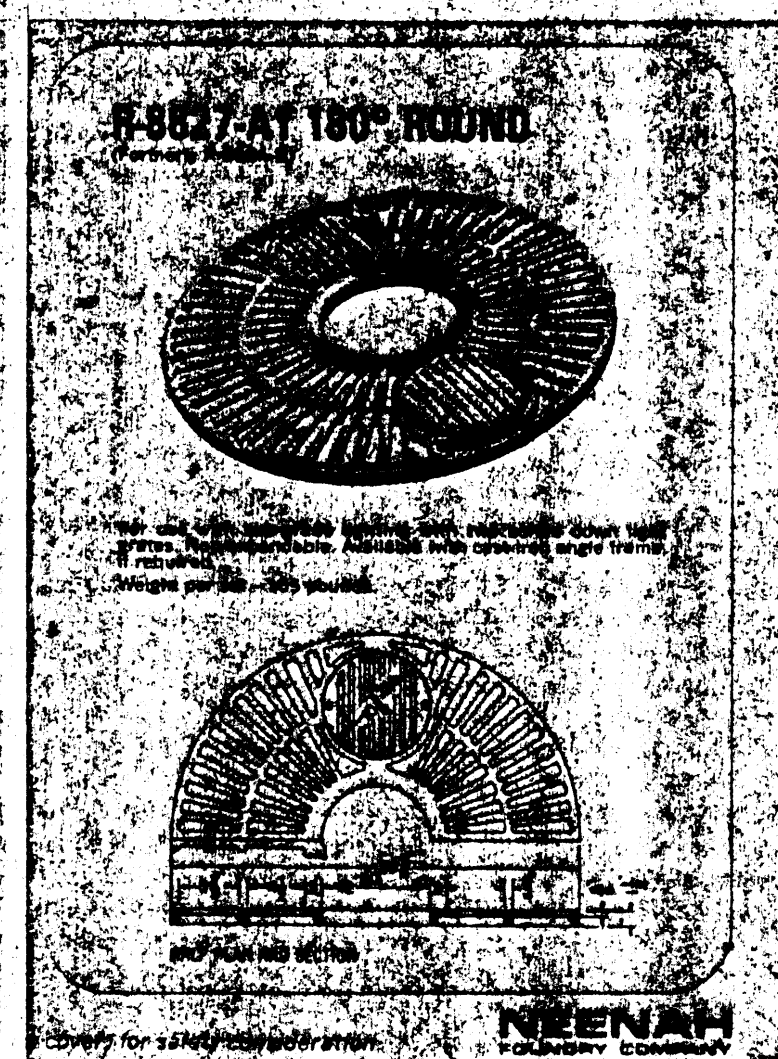


[illegible]

ITE PLAN

NOTE: ALL MATERIALS SHOW ON THIS SHEET TO BE PERFORMED BY OTHERS, EXCEPT LANDSCAPE AREAS.

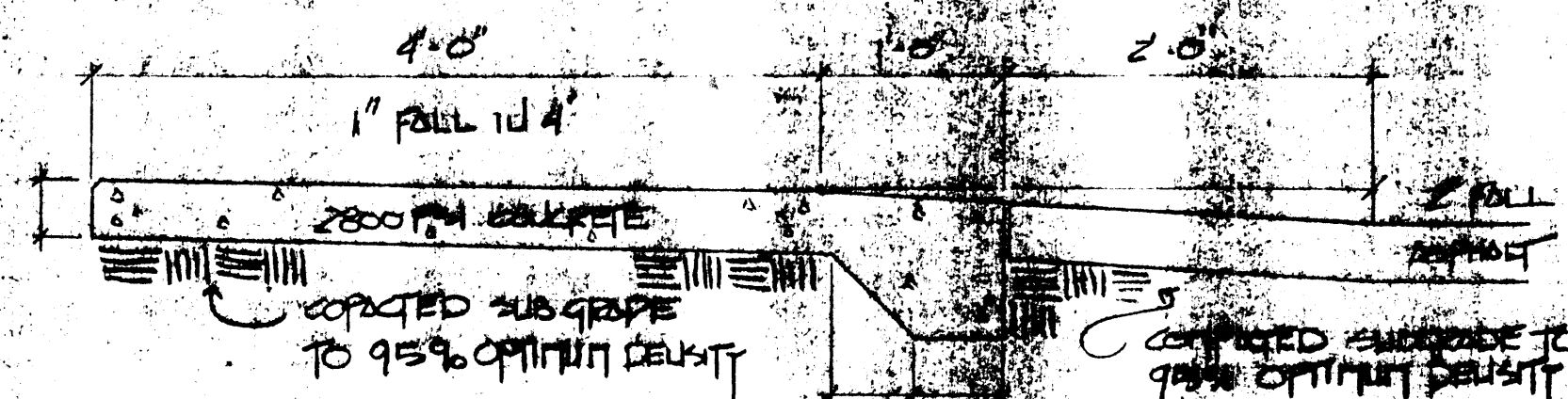


NOTE:

1. USE ONE IRON WIRE PLANT, PROVIDED BY MAINTENANCE FOR ADDITIONAL COST.
2. PROVIDE TWO SHARD SLEEVES PER TREE GROVE. ONE FOR LIGHTLY FOUR FOR IRRIGATION.

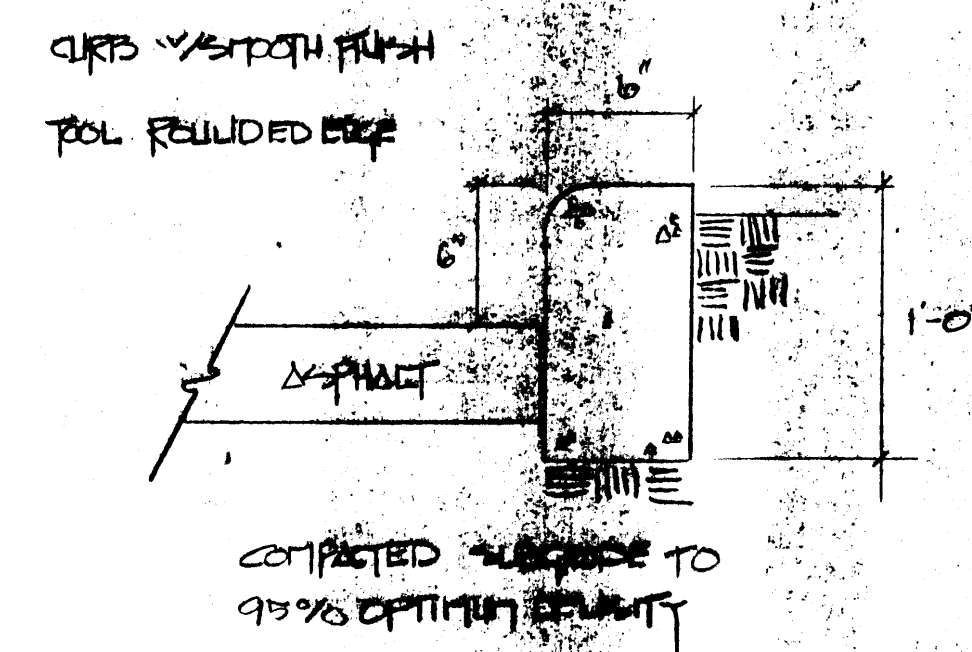
free grate detail

n. s. t.



concrete walk & handicap access

scale: $f^* = 0$



curb detail

n.t.s.

NOTE: LOS PATIOS ASSUMES NO RESPONSIBILITY FOR THIS DRAWING

ALL DETAILS SHOWN ON THIS SHEET ARE FOR THE CONVENIENCE OF THE CONTRACTOR

RECEIVED
JUN 16 1989
HYDROLOGY SECTION

Los Patios Inc

COMPLY K. WEAVER

HORIZON HEALTHCARE CORPORATION

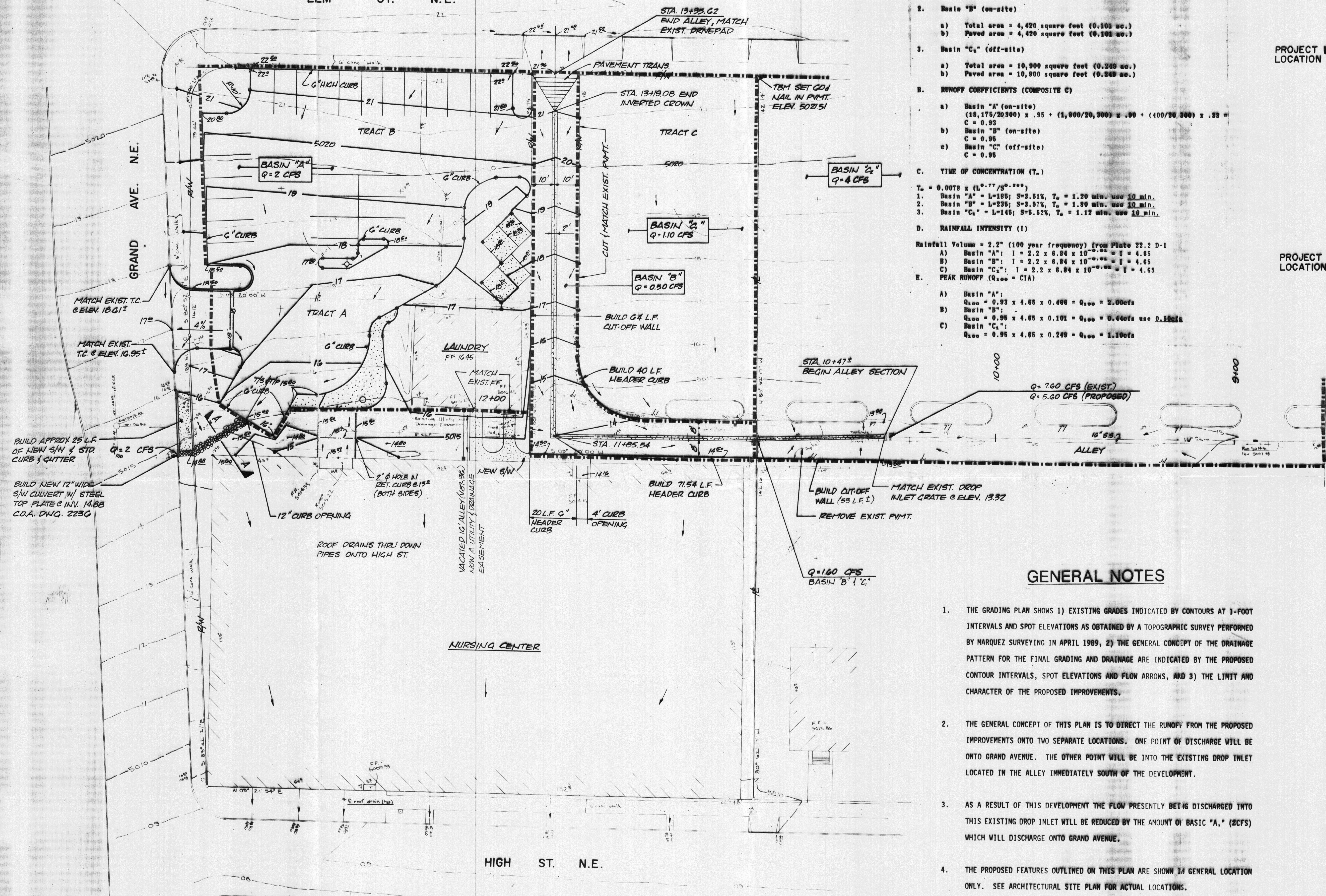
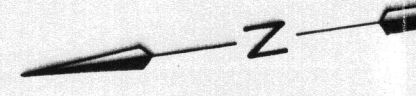
THE

CITY BENCH MARK
ACS BRASS CAP "T-25-20"
LOCATED 6' WEST OF THE
NORTH HEADWALL AT
GRAND AVE. & I-25
ELEV. 5000.80

ELM ST. N.E.

GRAND AVE. N.E.

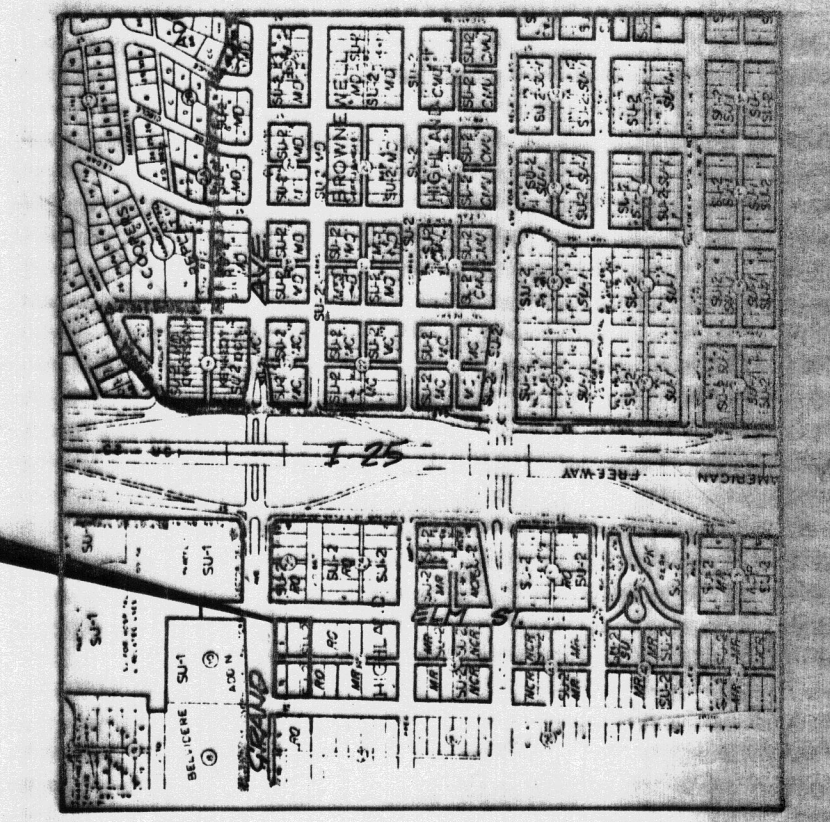
HIGH ST. N.E.



- A. CONTRIBUTING AREAS
- Basin "A" (on-site)
 - Total area = 20,300 square feet (0.468 ac.)
 - Paved area = 18,175 square feet (0.417 ac.)
 - Roof area = 1,800 square feet (0.041 ac.)
 - Landscape area = 400 square feet (0.009 ac.)
 - Basin "B" (on-site)
 - Total area = 4,420 square feet (0.101 ac.)
 - Paved area = 4,420 square feet (0.101 ac.)
 - Basin "C" (off-site)
 - Total area = 10,900 square feet (0.249 ac.)
 - Paved area = 10,900 square feet (0.249 ac.)
- B. RUNOFF COEFFICIENTS (COMPOSITE C)
- Basin "A" (on-site)
 $(18,175/20,300) \times .95 + (1,800/20,300) \times .80 + (400/20,300) \times .93 = C = 0.93$
 - Basin "B" (on-site)
 $C = 0.95$
 - Basin "C" (off-site)
 $C = 0.95$
- C. TIME OF CONCENTRATION (T_c)
- $T_c = 0.0078 \times (L^{.77}/S^{.48})$
- Basin "A" = $L=185$; $S=3.51\%$; $T_c = 1.20$ min. use 10 min.
 - Basin "B" = $L=235$; $S=3.57\%$; $T_c = 1.80$ min. use 10 min.
 - Basin "C" = $L=145$; $S=5.52\%$; $T_c = 1.12$ min. use 10 min.
- D. RAINFALL INTENSITY (I)
- Rainfall Volume = 2.2" (100 year frequency) from Plate 22.2 D-1
- Basin "A": $I = 2.2 \times 6.84 \times 10^{-.05} = I = 4.65$
 - Basin "B": $I = 2.2 \times 6.84 \times 10^{-.05} = I = 4.65$
 - Basin "C": $I = 2.2 \times 6.84 \times 10^{-.05} = I = 4.65$
- E. PEAK RUNOFF ($Q_{100} = CIA$)
- Basin "A":
 $Q_{100} = 0.93 \times 4.65 \times 0.468 = Q_{100} = 2.00cfs$
 - Basin "B":
 $Q_{100} = 0.95 \times 4.65 \times 0.101 = Q_{100} = 0.44cfs$ use 0.50cfs
 - Basin "C":
 $Q_{100} = 0.95 \times 4.65 \times 0.249 = Q_{100} = 1.10cfs$

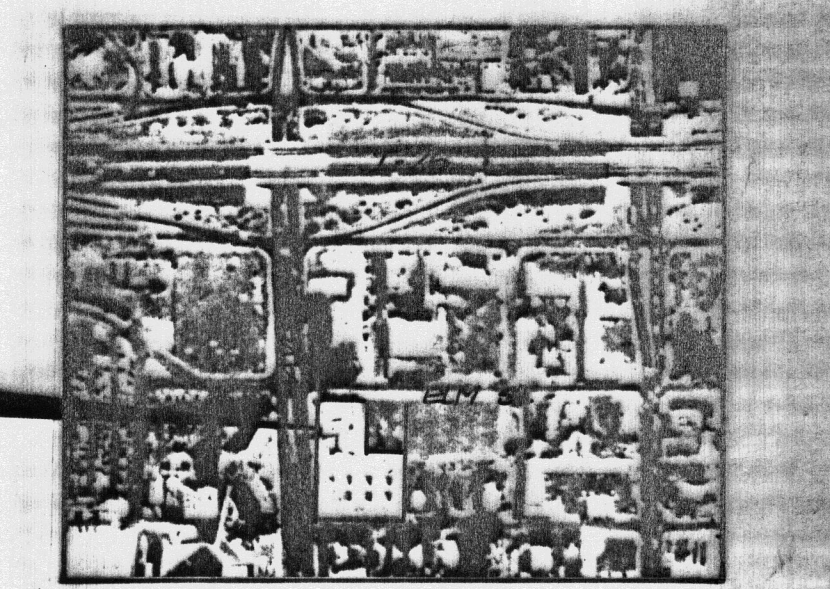
GENERAL NOTES

- THE GRADING PLAN SHOWS 1) EXISTING GRADES INDICATED BY CONTOURS AT 1-FOOT INTERVALS AND SPOT ELEVATIONS AS OBTAINED BY A TOPOGRAPHIC SURVEY PERFORMED BY MARQUEZ SURVEYING IN APRIL 1989, 2) THE GENERAL CONCEPT OF THE DRAINAGE PATTERN FOR THE FINAL GRADING AND DRAINAGE ARE INDICATED BY THE PROPOSED CONTOUR INTERVALS, SPOT ELEVATIONS AND FLOW ARROWS, AND 3) THE LIMIT AND CHARACTER OF THE PROPOSED IMPROVEMENTS.
- THE GENERAL CONCEPT OF THIS PLAN IS TO DIRECT THE RUNOFF FROM THE PROPOSED IMPROVEMENTS ONTO TWO SEPARATE LOCATIONS. ONE POINT OF DISCHARGE WILL BE ONTO GRAND AVENUE. THE OTHER POINT WILL BE INTO THE EXISTING DROP INLET LOCATED IN THE ALLEY IMMEDIATELY SOUTH OF THE DEVELOPMENT.
- AS A RESULT OF THIS DEVELOPMENT THE FLOW PRESENTLY BEING DISCHARGED INTO THIS EXISTING DROP INLET WILL BE REDUCED BY THE AMOUNT OF BASIC "A," (2CFS) WHICH WILL DISCHARGE ONTO GRAND AVENUE.
- THE PROPOSED FEATURES OUTLINED ON THIS PLAN ARE SHOWN IN GENERAL LOCATION ONLY. SEE ARCHITECTURAL SITE PLAN FOR ACTUAL LOCATIONS.
- NO SOILS RECOMMENDATIONS ARE HEREBY MADE OR IMPLIED.



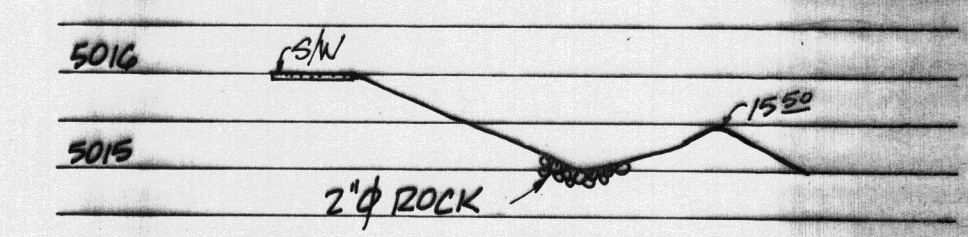
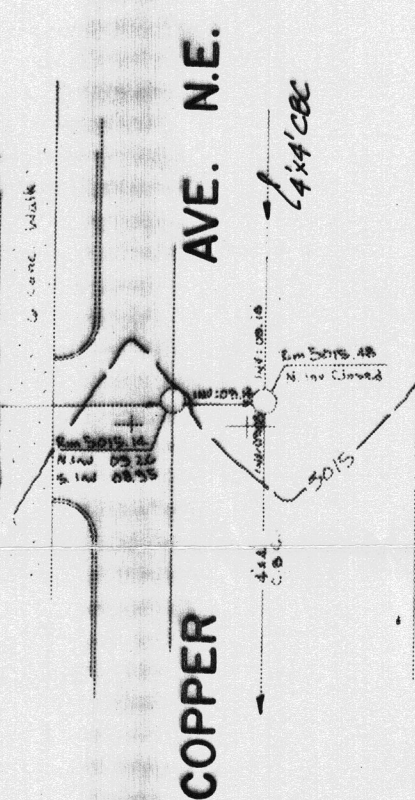
PROJECT LOCATION

LOCATION MAP K-15



PROJECT LOCATION

FLOODWAY MAP



REVISIONS			
NO.	INDEX	DATE	REVISION
1		5/10/89	REVISED PARKING AROUND DUMPSTER PER CITY TRANS COMMENTS
2		5/10/89	REVIEW COMMENTS OF 5/10/89 FROM CITY HYDROLOGY

BOVAY/McGINTY INC.

JUN 16 1989

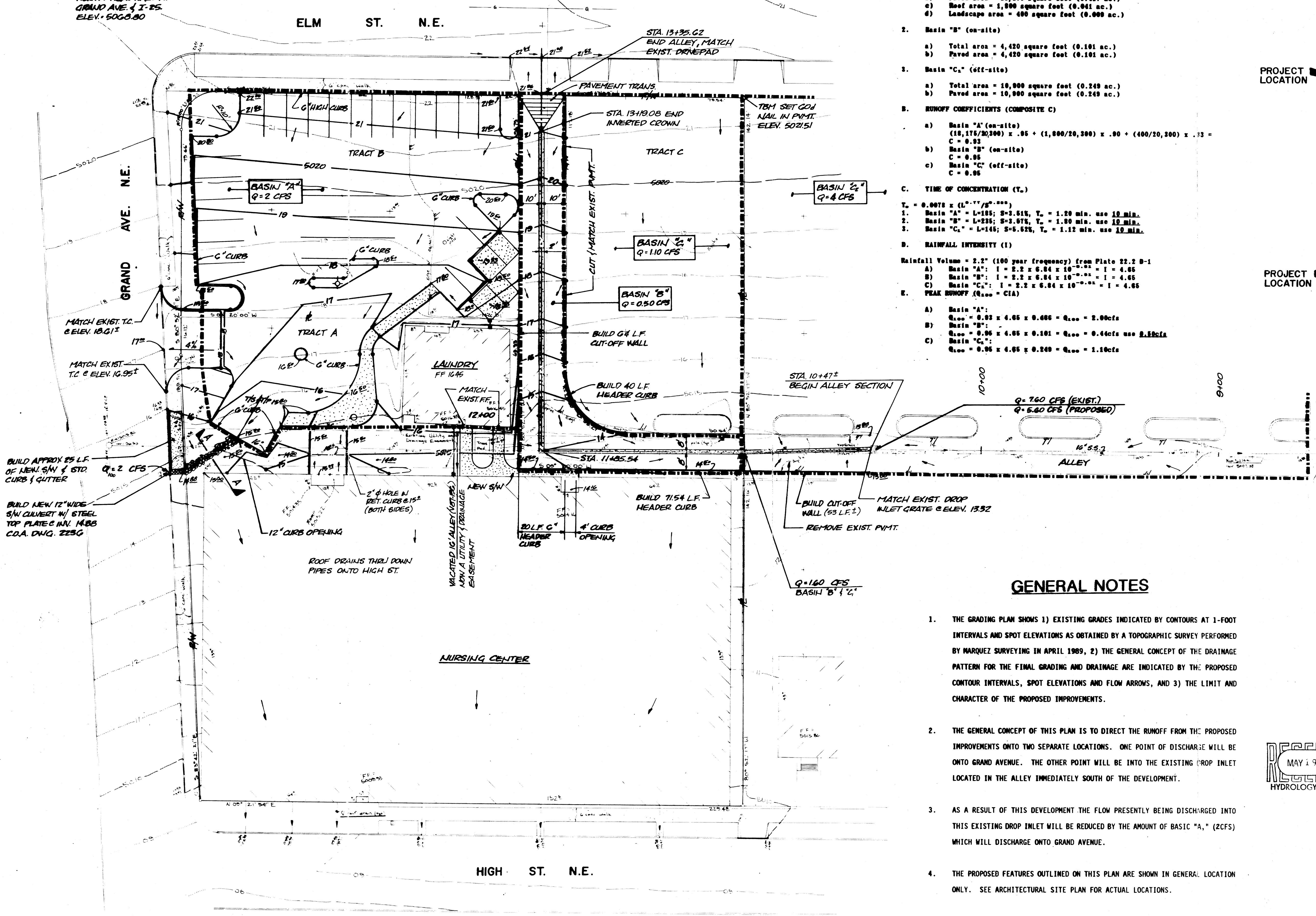
HORIZON NURSING CENTER

GRADING AND DRAINAGE PLAN

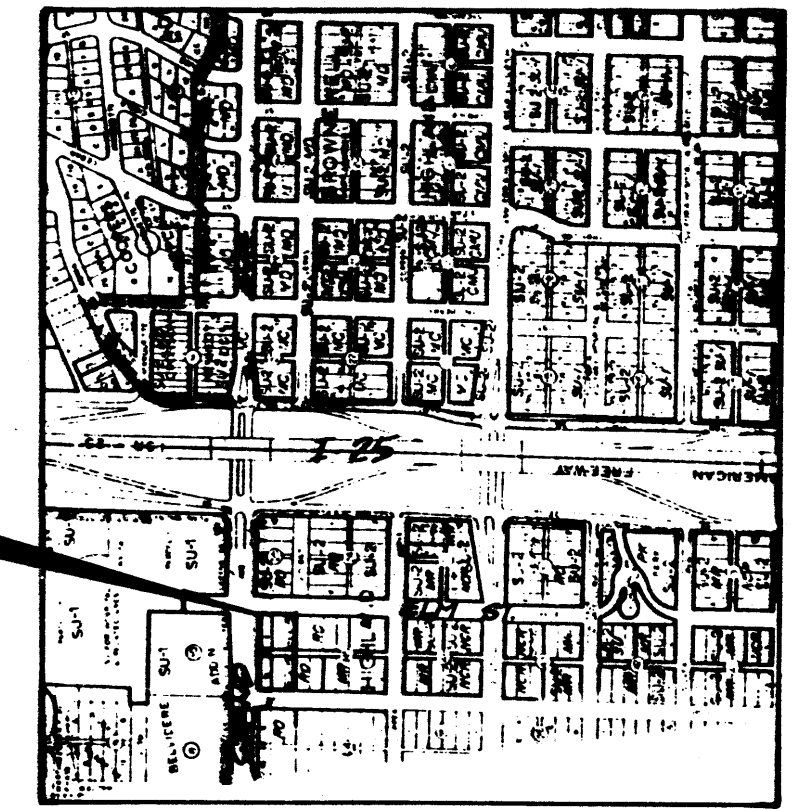
DESIGNED: RA	SCALE: 1"=20'
DRAWN: RA	PROJECT NUMBER: G164-01
CHECKED: PJC	DRAWING NUMBER: 1 of 1
APPROVED: RES	
DATE: 5/89	

DRAINAGE PLAN COMPUTATIONS

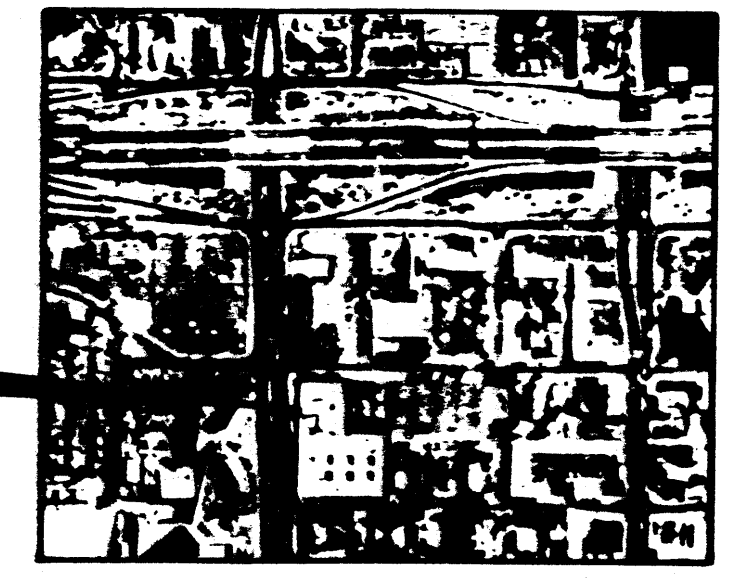
CITY BENCH MARK
ACE BRASS CAP "I-25-26"
LOCATED 6' WEST OF THE
NORTH HEADWALL AT
GRAND AVE. & I-25.
ELEV. 5068.80



- A. CONTRIBUTING AREAS
- Basin "A" (on-site)
 - Total area = 20,300 square foot (0.466 ac.)
 - Paved area = 18,175 square foot (0.417 ac.)
 - Roof area = 1,800 square foot (0.041 ac.)
 - Landscape area = 400 square foot (0.009 ac.)
 - Basin "B" (on-site)
 - Total area = 4,420 square foot (0.101 ac.)
 - Paved area = 4,420 square foot (0.101 ac.)
 - Basin "C" (off-site)
 - Total area = 10,000 square foot (0.249 ac.)
 - Paved area = 10,000 square foot (0.249 ac.)
- B. RUNOFF COEFFICIENTS (COMPOSITE C)
- Basin "A" (on-site)
 $(18,175/20,300) \times .95 + (1,800/20,300) \times .90 + (400/20,300) \times .33 = C = 0.93$
 - Basin "B" (on-site)
 $C = 0.95$
 - Basin "C" (off-site)
 $C = 0.95$
- C. TIME OF CONCENTRATION (T_c)
- $T_c = 0.0078 \times (L^{.77}/S^{.485})$
- Basin "A" = L=185; S=3.61%, T_c = 1.20 min. use 10 min.
 - Basin "B" = L=235; S=3.07%, T_c = 1.80 min. use 10 min.
 - Basin "C" = L=145; S=5.62%, T_c = 1.12 min. use 10 min.
- D. RAINFALL INTENSITY (I)
- Rainfall Volume = 2.2" (100 year frequency) from Plate 22.2 D-1
- Basin "A": $I = 2.2 \times 6.84 \times 10^{-.01} = 4.65$
 - Basin "B": $I = 2.2 \times 6.84 \times 10^{-.01} = 4.65$
 - Basin "C": $I = 2.2 \times 6.84 \times 10^{-.01} = 4.65$
- E. PEAK RUNOFF (Q₁₀₀ = CIA)
- Basin "A":
 $Q_{100} = 0.93 \times 4.65 \times 0.466 = Q_{100} = 2.00cfs$
 - Basin "B":
 $Q_{100} = 0.95 \times 4.65 \times 0.101 = Q_{100} = 0.46cfs$ use 0.50cfs
 - Basin "C":
 $Q_{100} = 0.95 \times 4.65 \times 0.249 = Q_{100} = 1.10cfs$



LOCATION MAP K-15

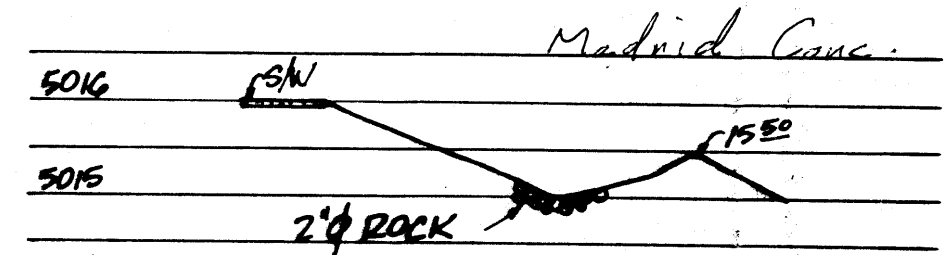


FLOODWAY MAP

GENERAL NOTES

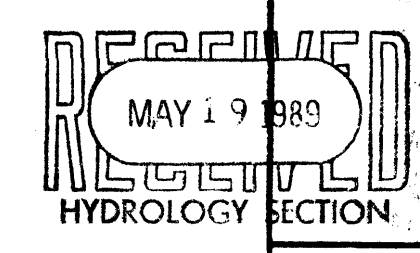
- THE GRADING PLAN SHOWS 1) EXISTING GRADES INDICATED BY CONTOURS AT 1-FOOT INTERVALS AND SPOT ELEVATIONS AS OBTAINED BY A TOPOGRAPHIC SURVEY PERFORMED BY MARQUEZ SURVEYING IN APRIL 1989, 2) THE GENERAL CONCEPT OF THE DRAINAGE PATTERN FOR THE FINAL GRADING AND DRAINAGE ARE INDICATED BY THE PROPOSED CONTOUR INTERVALS, SPOT ELEVATIONS AND FLOW ARROWS, AND 3) THE LIMIT AND CHARACTER OF THE PROPOSED IMPROVEMENTS.
- THE GENERAL CONCEPT OF THIS PLAN IS TO DIRECT THE RUNOFF FROM THE PROPOSED IMPROVEMENTS ONTO TWO SEPARATE LOCATIONS. ONE POINT OF DISCHARGE WILL BE ONTO GRAND AVENUE. THE OTHER POINT WILL BE INTO THE EXISTING DROP INLET LOCATED IN THE ALLEY IMMEDIATELY SOUTH OF THE DEVELOPMENT.
- AS A RESULT OF THIS DEVELOPMENT THE FLOW PRESENTLY BEING DISCHARGED INTO THIS EXISTING DROP INLET WILL BE REDUCED BY THE AMOUNT OF BASIC "A," (2CFS) WHICH WILL DISCHARGE ONTO GRAND AVENUE.
- THE PROPOSED FEATURES OUTLINED ON THIS PLAN ARE SHOWN IN GENERAL LOCATION ONLY. SEE ARCHITECTURAL SITE PLAN FOR ACTUAL LOCATIONS.
- NO SOILS RECOMMENDATIONS ARE HEREBY MADE OR IMPLIED.

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY
DESIGN APPROVAL: *Carla Montoya* 5-23-89
Hydrology Section Date
INSPECTION APPROVAL: *James G. Smith* 7-21-89
Construction Section Date
ACCEPTANCE: *James G. Smith* 8-11-89
Construction Section/Permits Date



SECTION A-A
N.T.S.

NO.	INDEX	DATE	REVISION	APP.
1		5/19/89	REVIEW COMMENTS OF 5/18/89 FROM CITY HYDROLOGY	RA RJC
				CK'D APP



BOVAY/McGINTY INC.
K15/D50

HORIZON NURSING CENTER

GRADING AND
DRAINAGE PLAN

DESIGNED: RA	SCALE: 1"=20'
DRAWN: RA	PROJECT NUMBER: G164-01
CHECKED: RJC	DRAWING NUMBER: 1 OF 1
APPROVED: KES	
APPROVED: [Signature]	
DATE: 5/89	