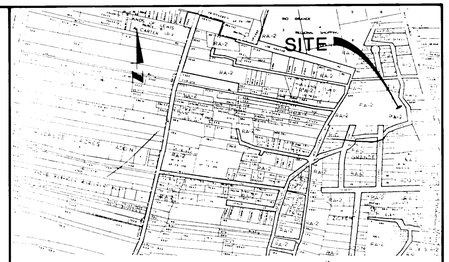
PAWIDOL SUBDIVISION



LOCATION MAP H-12

THE FOLLOWING NOTES APPLY WHEN CHECKED:

☒ All utilities and utility service lines shall be installed prior to paving.

☒ Backfill compaction shall be according to specified street use. **ARTERIAL RESIDENTIAL**

Tack coat requirements shall be determined by the City Engineer.

☒ Sidewalks and wheelchair ramps within the curb returns shall be constructed wherever a new curb return is constructed.

☒ If curb is depressed for a drivepad or a handicap ramp, the drivepad or ramp shall be constructed prior to acceptance of the curb and gutter.

☒ All storm drainage facilities shall be completed prior to final acceptance.

NOTICE TO CONTRACTORS

1) All work detailed on these plans to be performed under contract shall, except as otherwise stated or provided for hereon, be constructed in accordance with the New Mexico Standard Specifications for Public Works Construction - 1979 Edition (referred to herein as the Standard Specifications) and the Contract Documents for Public Works Contract **85-1**

2) Two (2) working days prior to any excavation, contractor must contact Line Locating Service, 765-1234, for location of existing utilities.

3) 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 or surveyor so that the conflict can be resolved with minimum amount of delay.

INDEX TO DRAWINGS

1. COVER
2. PLAT
3. GRADING / DRAINAGE PLAN
4. GRADING / DRAINAGE PLAN
5. STREET & UTILITY PLAN & PROFILE
6. CHANNEL CROSSING PLAN, PROFILE AND DETAILS
⚠ 7. CHANNEL CROSSING PLAN AND DETAILS REVISIONS

ZC 2393C/86

REV	DATE	ENGINEER	DATE	USER	DEPARTMENT	DATE	USER	DEPARTMENT	DATE
⚠	5-6-7		2/10/86	Trans. Dept.	N/A	1/24/86			

CHRISTOPHER L. WEISS NEW MEXICO 6853 REGISTERED PROFESSIONAL ENGINEER

WEISS / HINES ENGINEERING, INC.
1100-B ALVARADO N.E.
ALBUQUERQUE, NEW MEXICO 87110
(505) 266-3444

APPROVED FOR CONSTRUCTION
8/1/85

PROJECT NO 2393

SHEET 1 OF ~~6~~ ⚠ 7

85 58775

REPLAT OF THE
PAWIDOL SUBDIVISION

SECTION 12, TWP. 10 N, R 2 E, N.M.P.M.

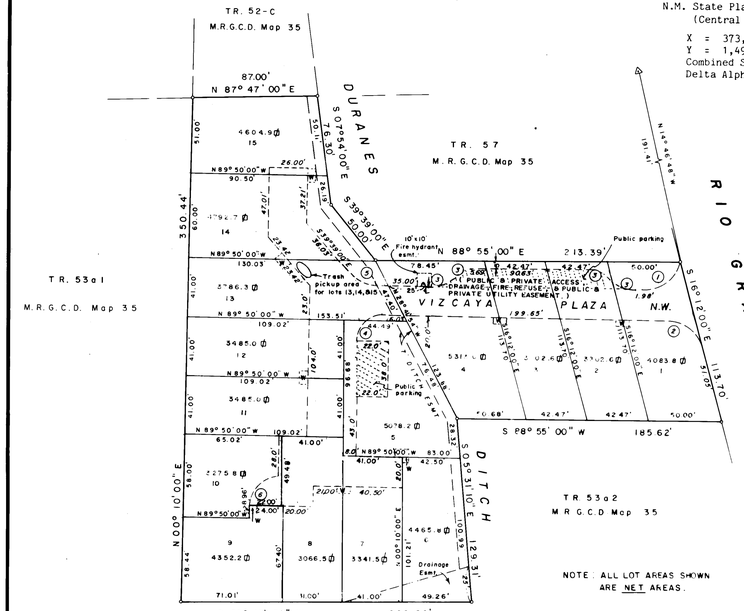
ALBUQUERQUE, NEW MEXICO

JAN., 1985

A.C.S. Brass Cap Monument
"7 H 13 A"

N.M. State Plane Co-ordinates
(Central Zone)

X = 373,182.92
Y = 1,497,620.71
Combined Scale Factor .999681
Delta Alpha = "00° 14' 33"

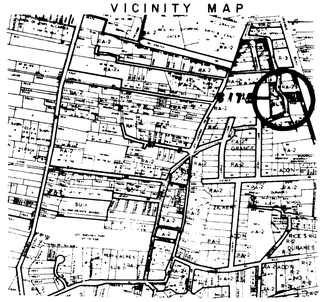


NOTE: ALL LOT AREAS SHOWN ARE NET AREAS.

SCALE: 1" = 50'

W
W + 5'-0"/5'-0" TYP. METER BOX (DBL.)
Note: 5' easement surrounds each meter.

VICINITY MAP



H-12-Z

Bearings shown are on local system. Rotate all bearings counter-clockwise 00° 14' 38" for State Plane Grid System.

Shaded areas are Private Ingress, Egress and Public Utility Easements.

Corner(s) set are 1/2" rebar w/cap stamped "L.S. 6446".

CURVE TABLE

Curve No.	Radius	Length	Delta
1	15.87'	29.12'	105° 07' 00"
2	25.00'	32.67'	74° 53' 00"
3	25.00'	16.08'	36° 52' 12"
4	13.81'	21.39'	88° 45' 00"
5	25.00'	22.44'	51° 26' 00"
6	20.00'	31.42'	90° 00' 00"

1. UTILITY EASEMENTS: Utility easements on the plat are granted for the common and joint use and benefit of:

A) The City of Albuquerque for installation, service and maintenance of water and sewer lines, valves, pumps and/or other related equipment and facilities reasonably necessary to deliver potable water to the residents of the subdivision and provide a liquid waste disposal system in accordance with the plans and procedures of the City of Albuquerque;

B) The Public Service Company of New Mexico for installation, maintenance and service of electrical lines, transformers and other equipment and related facilities reasonably necessary to provide electrical service to the residents of the subdivision;

C) The Gas Company of New Mexico for installation of natural gas lines, valves and other equipment and facilities reasonably necessary to provide gas to the residents of the subdivision;

D) Mountain Bell for the installation, service and maintenance of all telephone lines, switching equipment and other related equipment and facilities reasonably necessary to provide telephone service to the residents of the subdivision;

E) Albuquerque Cable Television, Inc., for the purpose of installation, service and maintenance of such line or cable as is reasonably necessary to provide Cable TV service to the residents of the subdivision.

2. DRAINAGE EASEMENTS - Vizcaya Plaza N.W. Drainage easements are granted to AMAFCA and the City of Albuquerque for the benefit of all owners of the subdivision or indicated on the Plat for the passage, containment or diversion of surface waters; and between individual property owners as indicated on the Plat by reference or notation.

3. ACCESS EASEMENTS: The City of Albuquerque is hereby granted access easements over and across Vizcaya Plaza N.W. for the purpose of allowing its various operating departments to provide service to the residents of the subdivision in the same manner and to the same extent as though the referenced tract were dedicated public streets. "Operating departments" as referred to above shall include, but shall not be limited to, the departments of the City providing the following services:

a) Police protection
b) Fire protection
c) Water resources
d) Solid refuse and liquid disposal
e) Animal control
f) Traffic engineering and control
g) Planning functions

All owners of the subdivision are granted the right to access their property over and across the referenced tract.

4. On Vizcaya Plaza N.W., the City of Albuquerque shall have the exclusive right to place underground utility lines within six (6) feet of the centerline of a water or sewer line except for perpendicular crossings or where written approval has been obtained from the City of Albuquerque, Gas Company of New Mexico, Public Service Company of New Mexico and Mountain Staten Telephone and Telegraph are exempted from compliance with the first sentence in this paragraph.

LEGAL DESCRIPTION

Plat of PAWIDOL SUBDIVISION within the Northeast Quarter (NE¼) of Section 12, Township 10 North, Range 2 East, N.M.P.M., Bernalillo County, New Mexico, as the same is shown and designated on said plat thereof, filed in the office of the County Clerk of Bernalillo County, New Mexico on April 22, 1983.

NOTES:

1. The HOME-OWNERS ASSOCIATION and the individual lots as shown hereon are responsible for the maintenance of the private access easement as shown hereon.
2. Parking is prohibited within the private access easement as shown hereon.

FREE CONSENT

The above plat is with the free consent of the undersigned owner(s). The undersigned have represented themselves to have title and acknowledge that this plat is within the covenants and restrictions on this property.

STEPHAN PAUL

ACKNOWLEDGEMENT

STATE OF NEW MEXICO)
) ss.
COUNTY OF BERNALILLO)

The foregoing instrument was acknowledged before me this 25th day of July, 1985. BY: Stephan Paul.

My Commission Expires: 5-8-87

Notary Public

ACKNOWLEDGEMENT

STATE OF NEW MEXICO)
) ss.
COUNTY OF BERNALILLO)

The foregoing instrument was acknowledged before me this 25th day of July, 1985.

BY: Franklin E. Wilson

My Commission Expires: 5-8-87

Notary Public

This property is/ is not within the 100-year flood boundary as shown on the City of Albuquerque F.I.R.M. map being panel 22 of 50, dated October 14, 1983.

CITY/COUNTY APPROVALS:

Property Management — Date 2/25/85
City Surveyor — Date 02-25-85
City Water Resources — Date 7-17-85
City Engineer — Date 7-9-85
A.M.A.F.C.A. — Date 7-10-85
Traffic Engineer — Date 7-9-85
Parks and Recreation — Date 7-9-85
Planning Director — S.P. No. SP-85-304 — Date 7.18.85

SURVEYOR'S CERTIFICATE

I, Franklin E. Wilson licensed under the laws of the State of New Mexico, do hereby certify that this plat was prepared by me or under my direction from notes of an actual field survey, shows all easements of record and meets the requirements for monumentation and surveys of the Albuquerque Subdivision Ordinance, and is true and correct to the best of my knowledge and belief.

Franklin E. Wilson, N.M.L.S. No. 6446 — Date

SOUTHWEST SURVEYING CO., INC.: 333 Lomas N.E., Albuquerque, N.M. 87102
(505) 247-4444

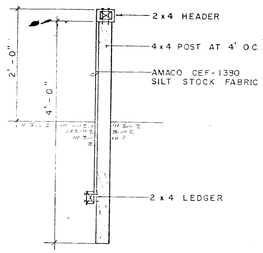
26 23 93086

CONSTRUCTION NOTES:

1. Before beginning construction, the Contractor shall check and verify pertinent figures shown here on and all applicable field measurements. Should any conflict, error or discrepancy be discovered, the Contractor shall notify the Engineer at once to resolve the problem. It is recommended that the contractor meet with the Engineer for a pre-design conference to determine the scope of work and critical areas involved.

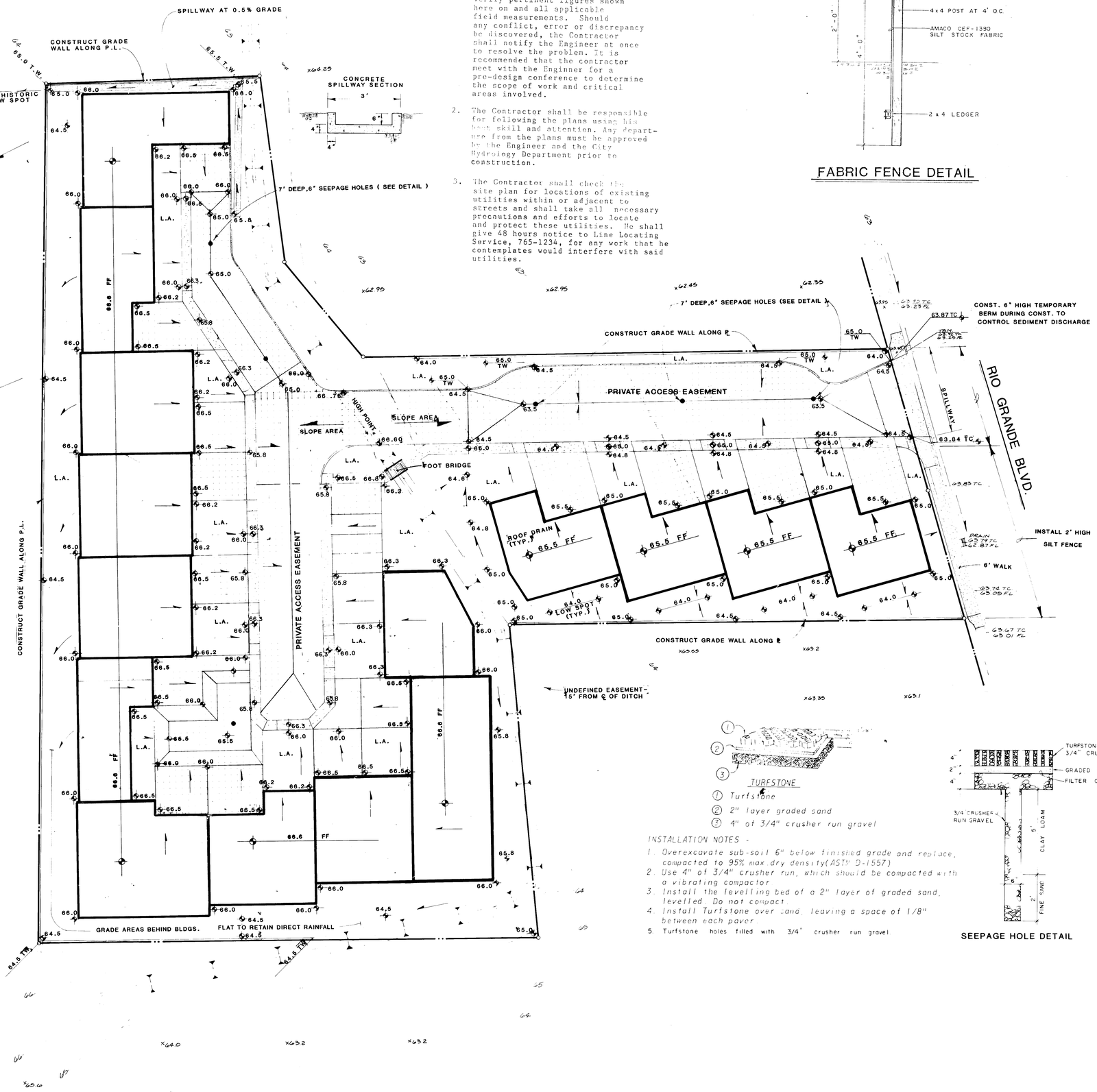
2. The Contractor shall be responsible for following the plans using his best skill and attention. Any departure from the plans must be approved by the Engineer and the City Hydrology Department prior to construction.

3. The Contractor shall check the site plan for locations of existing utilities within or adjacent to streets and shall take all necessary precautions and efforts to locate and protect these utilities. He shall give 48 hours notice to Line Locating Service, 765-1234, for any work that he contemplates would interfere with said utilities.



FABRIC FENCE DETAIL

1" = 20'



LEGEND

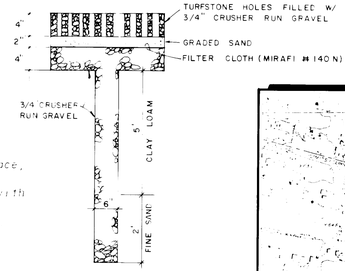
- SIDEWALK, CURB & GUTTER (EXISTING, PROPOSED)
- PROPOSED TURF PAVERS
- BUILDING (EXISTING, PROPOSED)
- PROPERTY LINE
- X12.7 — EXISTING SPOT ELEVATION
- 10 — EXISTING CONTOUR
- 12.5 — PROPOSED SPOT ELEVATION
- 10 — PROPOSED CONTOUR
- SURFACE FLOW DIRECTION (EXISTING, PROPOSED)
- L.A. — LANDSCAPED AREA

TURFSTONE

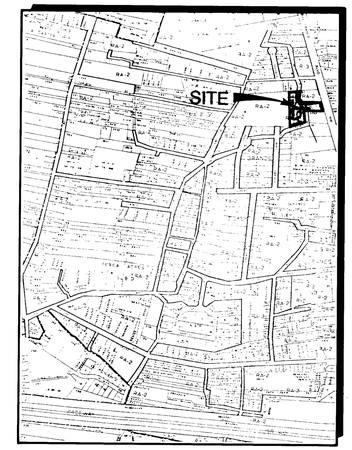
1. Turfstone
2. 2" layer graded sand
3. 4" of 3/4" crusher run gravel

INSTALLATION NOTES -

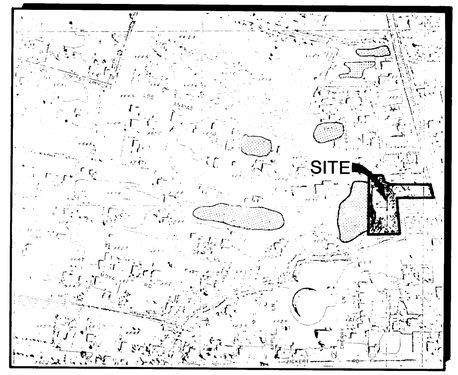
1. Overexcavate sub-soil 6" below finished grade and replace, compacted to 95% max dry density(ASTM D-1557)
2. Use 4" of 3/4" crusher run, which should be compacted with a vibrating compactor
3. Install the levelling bed of a 2" layer of graded sand, levelled. Do not compact.
4. Install Turfstone over sand, leaving a space of 1/8" between each paver.
5. Turfstone holes filled with 3/4" crusher run gravel.



SEEPAGE HOLE DETAIL



VICINITY MAP H-12



FLOOD HAZARD MAP

1	2	3	4	5	6	7	8	9	10	11	12
2	6		2	3	9	3	0	3	8	6	

2393

C.T.S. INC.
ENGINEERING
1100 ALVARADO N.E. SUITE A
ALBUQUERQUE, NEW MEXICO 87110
(505) 266 - 3444

REVISIONS DATE

DESIGNED
DRAWN
CHECKED

GRADING PLAN
SUBDIVISION

DRAINAGE / GR
PAWIDOL SU

SHEET 1 OF

NOTES

SCOPE:

The proposed improvements, comprised of 15 single story townhouses and associated walks, driveways, landscaping and utilities, is located off Rio Grande Blvd. N.W., several hundred feet south of Los Anayas Road. Because of the lack of capacity on Rio Grande and its storm sewer and because of the difficulties in draining water across the MRGCD ditch, the developer has elected to pond all on-site runoff within private access roadways. Roadways and driveways will be covered with "Turfstone", an open block which allows infiltration into the soil. Percolation tests by Albuquerque Testing Labs indicate that a permeable sand layer exists 6'-7' below ground level. Several 6"-diameter, 7'-deep gravel-filled holes will be constructed from the "Turfstone" pond into this sand layer to enhance infiltration.

The present site is undeveloped except for an old wooden shack which will be torn down. The site is presently undeveloped and is divided into two parts by the Durango Ditch. The front portion of the site is lower than Rio Grande Blvd. and does not drain to a public Right of Way. The rear portion of the site is very flat and is self ponding in that there is a small berm along the west PL.

The intent of this plan is to show:

a) Grading relationships between the existing ground elevations and proposed finished elevations in order to facilitate positive drainage to designated discharge points.

b) The extent of proposed site improvements, including buildings, walks and pavement.

c) The flow rate/volume of rainfall runoff across or around these improvements and methods of handling these flows to meet City requirements for drainage management.

d) The relationship of onsite improvements with existing neighboring property to insure an orderly transition between proposed and surrounding grades.

GENERAL NOTES:

LEGAL:
Tracts 53 A2, 53 B1, and northerly 10 ft. of tract 53 B2, MRGCD Map No. 35, Albuquerque, New Mexico, Bernalillo County, New Mexico.

SURVEYOR:
Wayne Johnson, L.S..

B.M.:
City of Albuquerque B.M. F-H13H, Elevation 4964.08.

T.B.M.:
NE corner of site, lot line projection @ T.C. Elevation 4,963.92.

SOILS:
Gila clay loam (Ge) moderately well drained with infiltration capacity of 0.6-2.0 in/hr. (Hydrologic Group B).

FLOOD HAZARD:
The extreme western portion of the site supposedly lies within a 100-year flood hazard area (Albuquerque FIRM, Map H-32). Field inspection by CTS on July 29, 1984, indicates that the flood hazard area does not actually extend onto the site because of a 0.5' berm that runs along the chainlink fence on the west side. The flood hazard area is very shallow (0.2' to 0.4').

OFF-SITE DRAINAGE:
Site is not affected by off-site drainage.

EROSION CONTROL:
Site will be developed in two phases. Phase 1 (east area) will have a 2' high filter fabric "silt fence" installed along east property line and a 6"-high berm across street at intersection with Rio Grande Boulevard. This will ensure that eroded sediments will not leave site. Phase 2 (west area) will be developed later. All flow and sediment will be contained on-site by existing topography and proposed grades. No flow or sediment can reach Rio Grande Boulevard or Phase 1 area from Phase 2.

CALCULATIONS:
Based on a pre-design meeting with City of Albuquerque Hydrology, on July 2,1984, the following criteria was established.

a. Free discharge if downstream capacity is available; if not ponding on site. (Subsequent analysis showed that connection to the storm sewer could not be made conveniently and that street and storm sewer flow did not have hydraulic capacity.)

Calculations are based on the [illegible] Procedure Manual, Vol. II for the 100 year-6 hour storm, and the Rational Formula to compare the existing and proposed runoff rates.

RATIONAL METHOD Q = CiA

Area of site: 73,616 sq.ft. = 1.69 Ac. Excluding back yard areas which will be self infiltrating, site will have 1.28 ac. draining to "Turfstone" ponds.

Run-off Coefficient:

Existing Site:
East Area (0.5 Ac)
A imp. = 0 Ac
% imp. = 0 %
"C" = 0.34 (DPM 22.2 C-1)

Developed Condition:
East Area (0.5 Ac)
A imp. = 0.3 Ac
% imp. = 60 %
"C" = 0.55 (DPM 22.2 C-1)
Note: Use 0.6 to account for turfstone clogging.

West Area (1.19 Ac)
A imp. = 0 Ac
% imp. = 0 %
"C" = 0.34 (DPM 22.2 C-1)

West Area (1.19 Ac)
A imp. = 0.8 Ac
% imp. = 67 %
"C" = 0.64 (DPM 22.2 C-1)
Use "C" = 0.6 to account for turfstone clogging.

Rainfall Intensity:

$I = P_6 (6.84) Tc^{-.645}$ = 2.65" per hour
where P_6 = 2.2" (DPM 22.2 T-1)
Tc = 10 minutes

Existing Condition:
East Area

Q100 = (0.34)(4.65)(0.5)
= 0.8cfs

V100 = (0.8cfs)(60 sec/min)(10 min)
= 1200 cu. ft.

West Area

Q100 = (0.34)(4.65)(1.19)
= 1.9 cfs

V100 = (1.9cfs)(60)(10)
= 2850 cu. ft.

Total East and West

Q100 = 2.7 cfs
V100 = 4050 cu. ft.

Developed Condition:
East Area

Q100 = (0.55)(4.65)(0.5)
= 1.3cfs

V100 = (1.3)(60)(10)
= 1,950 cu. ft.

West Area

Q100 = (0.6)(4.65)(1.19)
= 3.3 cfs

V100 = (3.3)(60)(10)
= 4950 cu. ft.

Total East and West

Q100 = 4.6 cfs
V100 = 6,900 cu. ft.

SUMMARY:

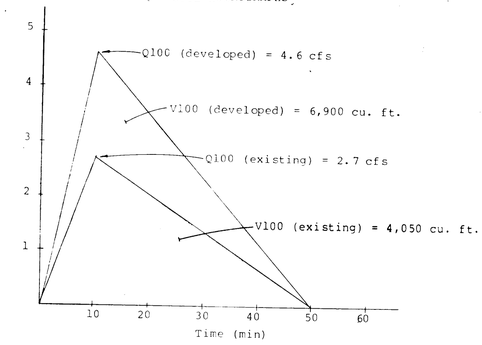
ΔQ100 = (4.6) - (2.7) = 1.9 cfs (increase)
ΔV100 = 6900 - 4050 = 2,850 cu. ft. (increase)

POND VOLUME CALCULATIONS

The entire 0.662 cu. ft. will not flow to the "Turfstone" ponds since 0.1 Ac. (east side) and 0.3 Ac. (west side) will be in isolated backyard or landscaped areas. Therefore, for the 0.1 Ac. area on the west side = CiA x 50 x 43,560 = 1,742 cu. ft. to the east side, V100 for the 0.24 Ac. area = 810 cu. ft. Subtracting these volumes from the total developed V100 results in a ponding requirement for the east side of 1,710 cu. ft. and 4,142 cu. ft. for the west side.

By planimeter and assuming a pond depth of 6.5', the east pond has a storage capacity of 2,025 cu. ft. at elevation = 64.5'.
The west pond has a volume of 5,200 cu. ft. at elevation = 66.0'.

SITE HYDROGRAPHS



CTS INC.
ENGINEERING
1100 ALVARADO N.E. SUITE A
ALBUQUERQUE, NEW MEXICO 87110
(505) 266 - 3444

REVISIONS	DATE
DESIGNED WGH	1-21-85
DRAWN KW	1-22-85
CHECKED CW	1-23-85

DRAINAGE / GRADING PLAN
PAWIDOL SUBDIVISION

PERCOLATION TESTS

ATL ENGINEERING SERVICES

Albuquerque Testing Laboratory, Inc.
532 Jefferson N.E. (87108)
P. O. Box 4101 (87106)
Albuquerque, New Mexico
(505) 268-4537

August 15, 1984

Mr. Steve Aiken
P. O. Box 36137
Station D
Albuquerque, New Mexico 87176

Re: ATL Engineering Services Lab No. 2-04374-84. Field Percolation Tests, Rio Grande Blvd., South of Los Anayas.

Dear Mr. Aiken:

The results of the referenced tests are herewith submitted. Included are a description of the procedures utilized and results of Partical Size Analysis performed on representative soil samples.

If you have any questions or if we can be of further assistance to you, please call us.

Respectfully submitted:

ATL ENGINEERING SERVICES
Nicholas T. Korecki
Nicholas T. Korecki, P.E.

Reviewed by:
Robert K. Lloyd
Robert K. Lloyd, P.E.
Head, Geotechnical Section

NTK/ss

PERCOLATION TEST NO. 1

INTRODUCTION

The percolation test was performed on August 2, 1984 at approximately 35 feet East of the West property line at the approximate Center of the site. The test was run at a depth of three (3) feet beneath the existing ground surface in a 3-1/2"± diameter hole. The lower two foot portion of the hole was filled with one inch gravel. The top foot contained a 3 inch diameter pipe in which the water level was monitored and measured. The hole was allowed to saturate with water prior to running the test.

TEST RESULTS

Time Interval (minutes)	Initial Water Level in Hole (inches)	Drop in Water Level (inches)
0-10	36	5-3/4
10-20	30-1/4	3-1/4
20-30	27	3
30-40	36	5-3/4
40-50	30-1/4	3-1/4
50-60	36	5-1/2

Percolation rate during the last ten (10) minutes = 1.8 minutes per inch. The rate varies according to the water level.

GRADATION TEST (Percent)
Auger Cuttings 0' - 3'

G	CS	MS	FS	S/C
1	6	2	26	67

Unified Soils Classification: CLAY, brown, sandy (CL)

PERCOLATION TEST NO. 2

INTRODUCTION

The percolation test was performed on August 9, 1984, 15' West of Test No. 1, at a depth of 10 feet beneath the existing ground's surface, in a 6-1/2"± diameter hole. The bottom 9 foot portion of the hole was filled with one inch gravel. The upper one foot section contained a 4 inch diameter pipe surrounded by one inch gravel.

Because of the rapid percolation rate in the clean sand the time was recorded during which the water level dropped 12 inches from the ground's surface. A total of twenty measurements were made over a period of 90 minutes. Prior to running the test, 20 gallons of water were poured into the hole in order to saturate the soils.

TEST RESULTS

Trial	Time*	Trial	Time*
1	45	11	205
2	74	12	230
3	76	13	230
4	90	14	240
5	115	15	235
6	130	16	255
7	145	17	260
8	150	18	265
9	165	19	280
10	195	20	285

*Time in seconds for water level to drop 12 inches

Average Percolation rate for the last 10 trials: 0.34 minutes per inch.

GRADATION TEST (Percent)
Auger Cuttings 5' - 7'

G	CS	MS	FS	S/C
0	4	28	67	5

Unified Soils Classification: SAND, brown, fine to medium grained (SP).

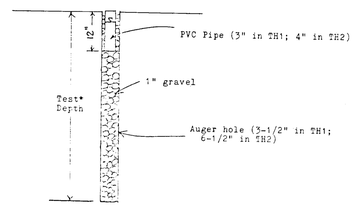
DRILLER'S LOG

Boring Location: 25' East of West Property Line at the approximate Center of the site.

Depth	Visual Description
0' - 7'	CLAY, light brown, sandy, fine grained
7' - 15'	SAND, brown, fine to medium grained

No water encountered

SKETCH OF TEST PROCEDURE



*3' in TH1; 10' in TH2

LASON 1-505-344-9404
BEST COPY AVAILABLE

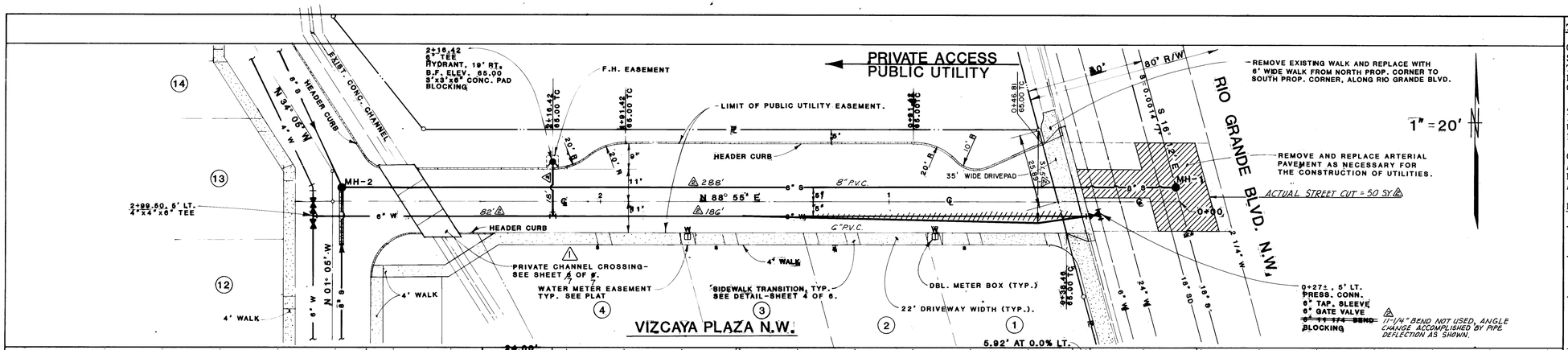
DRAINAGE PLAN

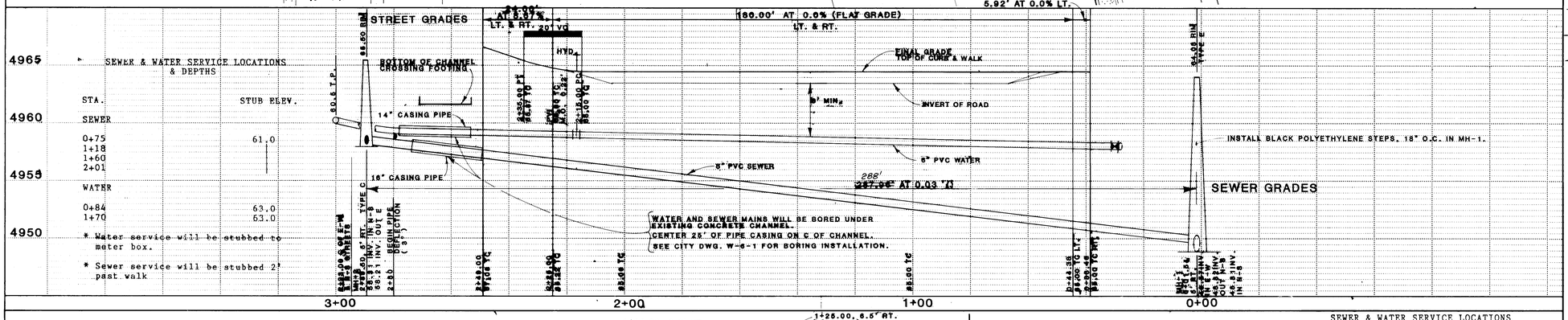
W.G. Wood 1-23-85

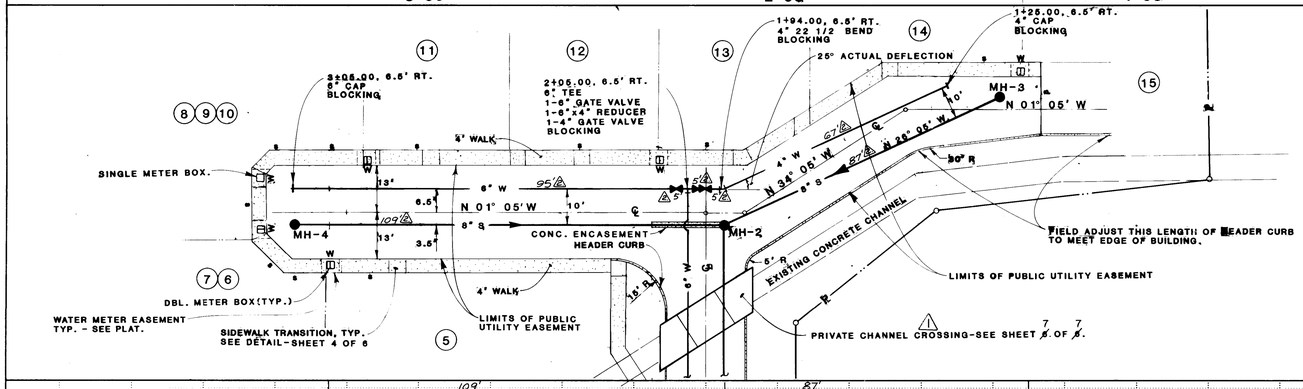
SHEET 2 OF 2

1 2 3 4 5 6 7 8 9 10 11 12
2 6 2 3 9 3 0 4 8 6

2393





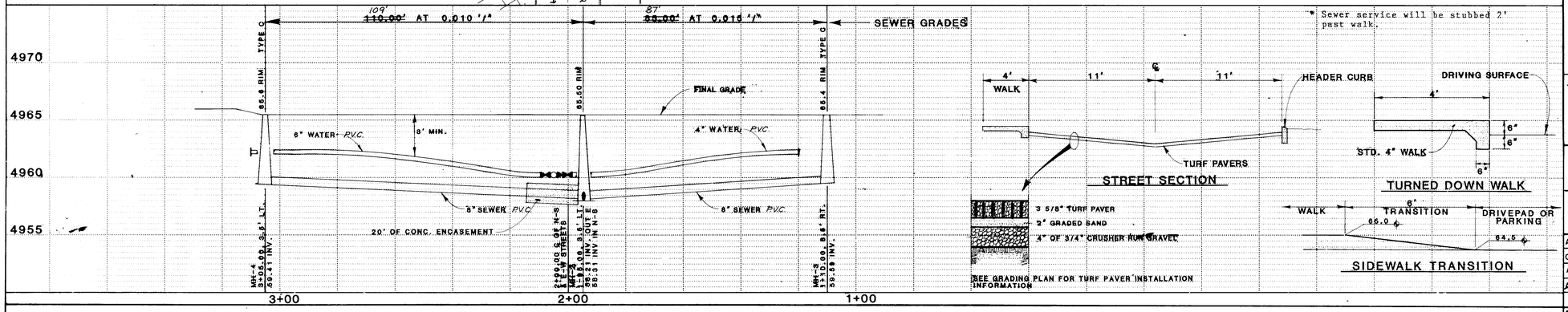


SEWER & WATER SERVICE LOCATIONS & DEPTHS

STA.	STUB ELEV.
SEWER	
1+07	62.0
1+10	
MH-2	
2+35	
2+80	
2+90	
2+95	
3+00	
3+05	
3+10	
3+15	
WATER	
1+27	64.0
2+13	
2+94	
3+05	
3+15	
3+18	

* Water service will be stubbed to meter box.

* Sewer service will be stubbed 2' past walk.



TRAFFIC HANDLING NOTES

CONTRACTOR MUST SUBMIT A CONSTRUCTION SIGNING AND BARRICADING PLAN TO TRAFFIC ENGINEERING DIVISION AND RECEIVE A BARRICADING PERMIT PRIOR TO CONSTRUCTION.

ALL CONSTRUCTION SIGNING AND BARRICADING TO COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 1978 EDITION.

CONTRACTORS OPERATION, BARRICADING AND SIGNING SHALL NOT AFFECT THRU LANES BETWEEN 7 AM AND 9 AM AND 4 PM AND 6 PM.

NOTES

-INSTALL E.M.D. AT ALL BENDS, CAPS AND TEES.

-ALL VALVES WILL BE RESILIENT SEAT AND BE INSTALLED WITH TYPE "A" VALVE BOX AND VALVE ANCHORING.

-APPROVED PIPE MATERIAL:
SEWER- PVC, VCP, DI OR APPROVED EQUAL
WATER- C900, PVC, AC, DI OR APPROVED EQUAL.

-STATIONING IS ALONG THE ℄ OF VIZCAYA PLAZA RD.

-SEE PLAT FOR PRIVATE ACCESS ℄ CONTROL AND DIMENSIONING.

-ALL MHS IN SITE WILL BE INSTALLED WITH WATER TIGHT LIDS AND COVERS.

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

AS BUILT INFORMATION
BENCH MARKS
3-C12 ELEV. 4993.223
B.C. WEST OF RIO GRANDE BLVD. AND C OF MATTHEW AVE. N.W.
CONTRACTOR New Concepts DATE
WORK DONE BY INSPECTOR'S ACCEPTANCE DATE 2-21-86
AS-BUILTED BY C. Silverhorse DATE 2-21-86
VERIFICATION BY DATE
CHECKED BY DATE 6-23-86
CONVERTED BY E. NEZ.
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

ENGINEER'S SEAL
CHRISTOPHER R. WEISS
NEW MEXICO
14008
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
1	6-23-86	Revised from as-built drawings	EN
2	1-86	Bridge Change	BJS

REVISIONS

DESIGN		
DESIGNED BY	D.E.C.	DATE 3-85
DRAWN BY	D.E.G.	DATE 3-85
CHECKED BY	C.L.W.	DATE 3-85

WEISS / HINES ENGINEERING, INC.
1100-B ALVARADO N.E.
ALBUQUERQUE, NEW MEXICO 87110
(505) 266-3444

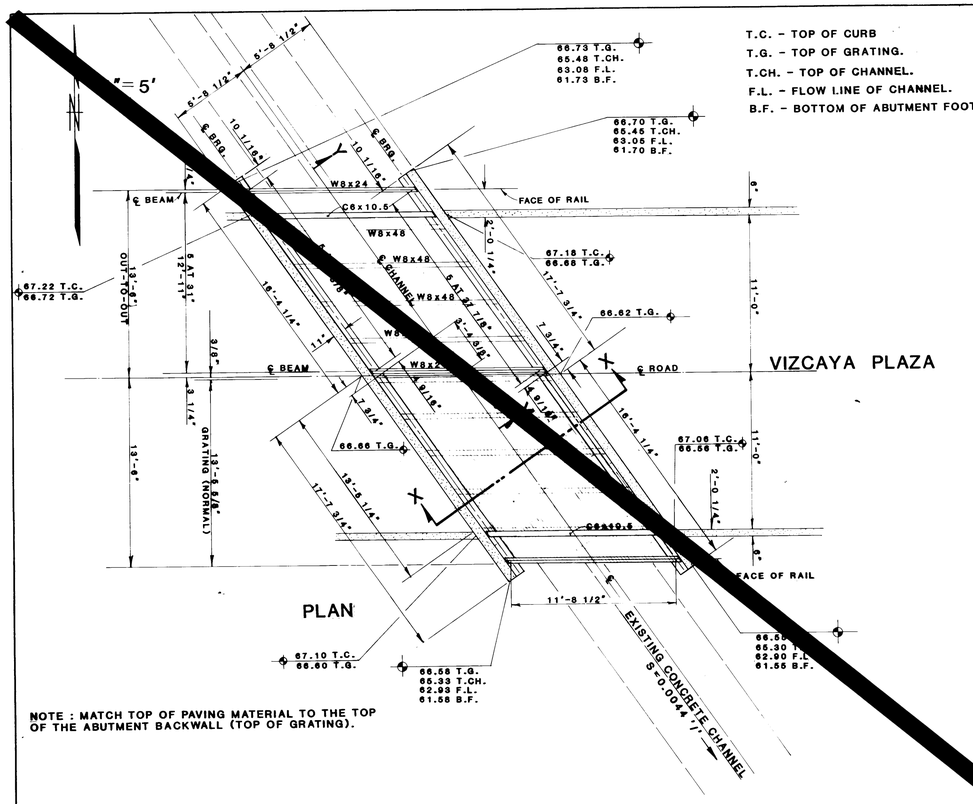
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: PAWIDOL SUBDIVISION
STREET & UTILITY PLAN & PROFILES
VIZCAYA PLAZA N.W.

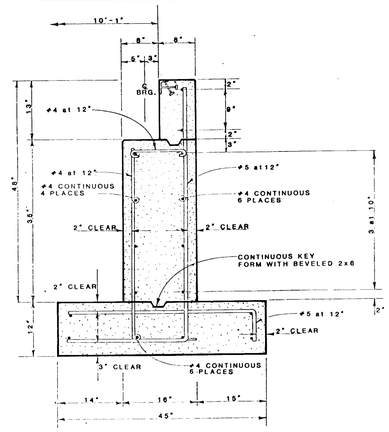
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		4/17/86	Liquid Waste		4/17/86
A.C.E.-Design		4/18/86	Traffic		4/17/86
A.C.E.-Hydrology		4/17/86	Water		4/17/86

DRAWING NO. 2393
MAP NO. H-12
SHEET 5 OF 7

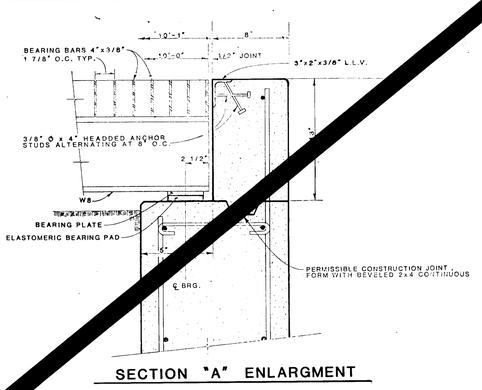
T.C. - TOP OF CURB
T.G. - TOP OF GRATING.
T.CH. - TOP OF CHANNEL.
F.L. - FLOW LINE OF CHANNEL.
B.F. - BOTTOM OF ABUTMENT FOOTING.



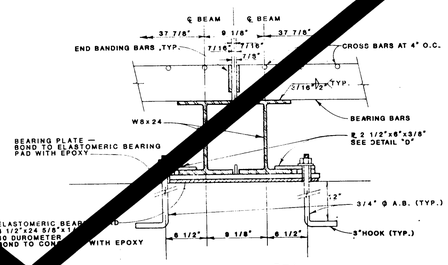
NOTE : MATCH TOP OF PAVING MATERIAL TO THE TOP OF THE ABUTMENT BACKWALL (TOP OF GRATING).



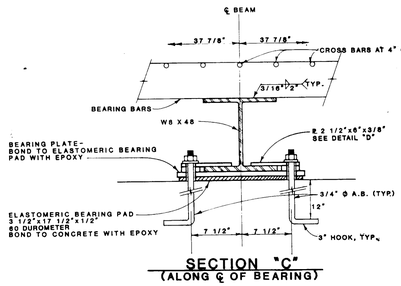
SECTION "A"
(NORMAL TO ℄ OF CHANNEL)



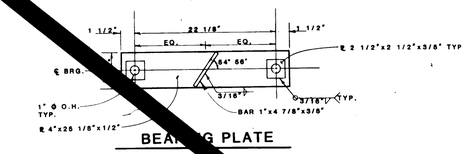
SECTION "A" ENLARGMENT



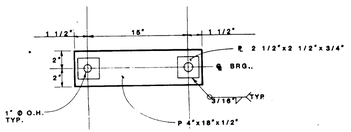
SECTION "B"
(ALONG ℄ OF BEARING)



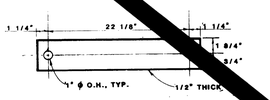
SECTION "C"
(ALONG ℄ OF BEARING)



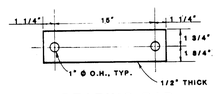
BEARING PLATE



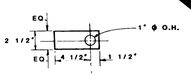
BEARING PLATE



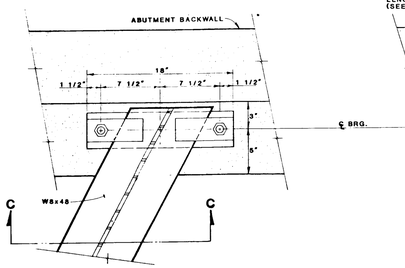
BEARING PAD



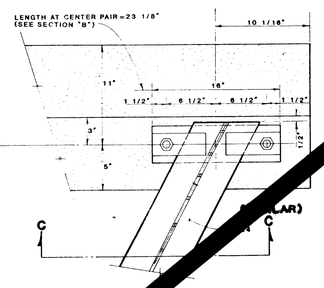
BEARING PAD



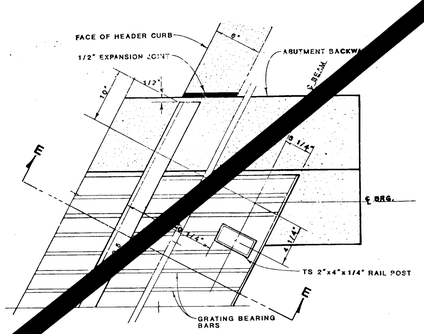
DETAIL "D"



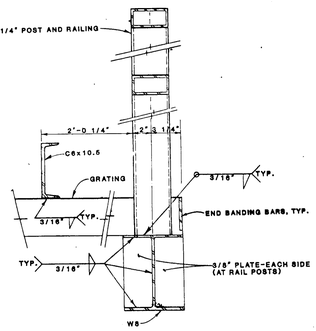
INTERIOR BEAM



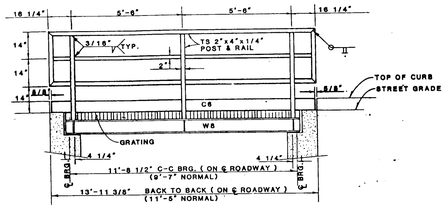
EDGE BEAM



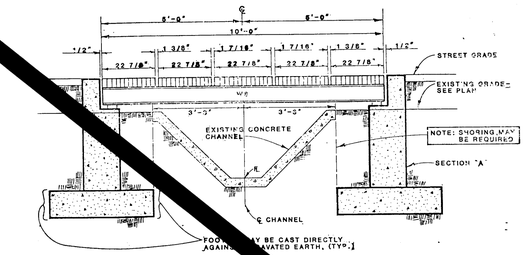
PLAN



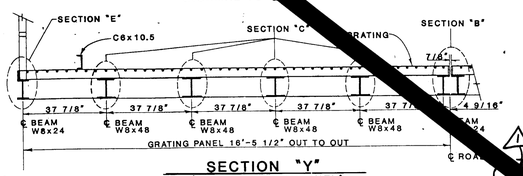
SECTION "E"



ELEVATION



SECTION "X"
(NORMAL TO ℄ CHANNEL)



SECTION "Y"
(ALONG ℄ OF CHANNEL)

GENERAL NOTES

1. FOOTING SHALL BE FOUNDED ON NATURAL UNDISTURBED SOIL. IF UNSUITABLE CONDITIONS ARE ENCOUNTERED, CONTRACTOR SHALL NOTIFY ENGINEER.

2. PAINT ALL EXPOSED STEEL WITH ONE COAT OF SHOP PRIMER AND TWO COATS OF SILVER PAINT ACCORDING TO AASHTO SPECIFICATION M-70 TYPE 1 CLASS B.

3. CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

4. DO NOT WELD REINFORCING BARS.

MATERIAL SPECIFICATIONS

CONCRETE: MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS f'c=4000 psi

REINFORCING: ASTM A615- GRADE 60

STRUCTURAL STEEL: ASTM A-36

TUBE STEEL: ASTM A-500 GRADE B

ANCHOR BOLTS: ASTM A-307

GRATING BEARING BARS: ASTM A-36

HEADED ANCHOR STUDS: ASTM A-108 GRADE 1015 OR 1020

DESIGN DATA

LIVE LOAD: AASHTO HS20-44

ALLOWABLE SOIL BEARING PRESSURE = 2500 psf

REFERENCE SPECIFICATIONS
(LATEST EDITION)

AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"

AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS"

ACI-301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"

ACI-315 "STANDARD DETAILING MANUAL"

ACI-318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"

AWS-2.0 "SPECIFICATIONS FOR WELDED HIGHWAY AND RAILWAY BRIDGES"

CRSI "MANUAL OF STANDARD PRACTICE"

NAAMM "METAL BAR GRATING MANUAL"

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTIONS
AS-BUILT PLANS BY — DATE
FIELD VERIFICATION BY — DATE
AS-BUILTS BY — DATE
CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

SURVEY INFORMATION
BENCH MARKS
3-G12 ELEV. 4963.223
B.C. WEST OF RIO GRANDE BLVD. AND ON THE ℄ OF MATTHEW AVE. N.W.
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
DENISE A. SCHNEEBER
STATE OF NEW MEXICO
NO. 9686
REGISTERED PROFESSIONAL ENGINEER

BRIDGE CHANGE (OMIT THIS SHT) BAS — BY
1-86 — NO. | DATE
REMARKS
REVISIONS
DESIGN — DESIGNED BY B.S. DATE 3-86
DRAWN BY D.E.C. DATE 3-86
CHECKED BY B.S. DATE 3-86

1 2 3 4 5 6 7 8 9 10 11 12
2 6 2 3 9 3 0 6 8 6

WEISS / HINES ENGINEERING, INC.
1100-B ALVARADO N.E.
ALBUQUERQUE, NEW MEXICO 87110
(505) 266-3444

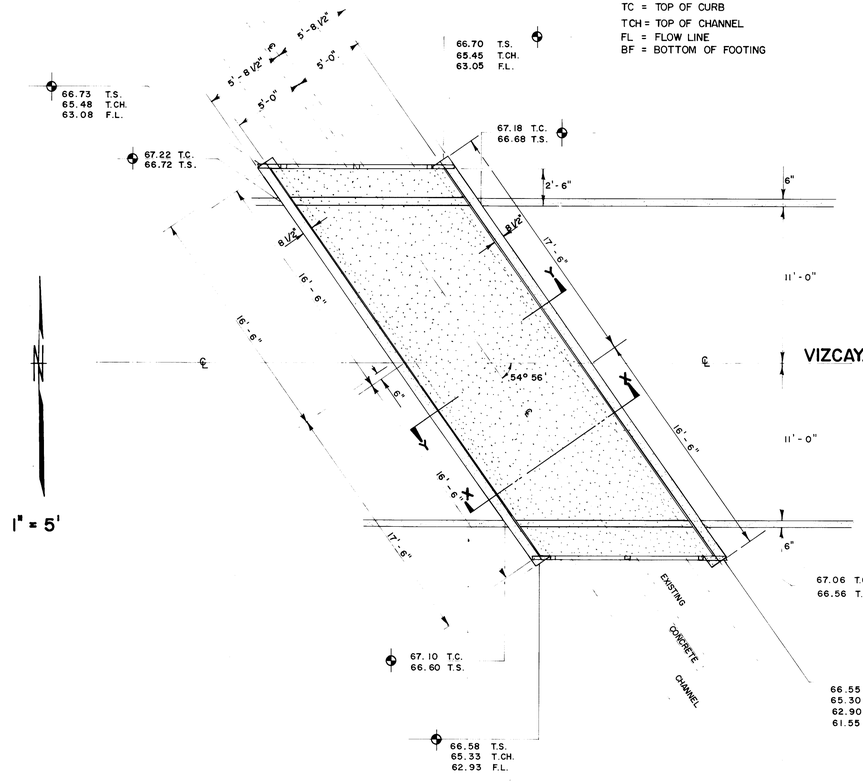
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

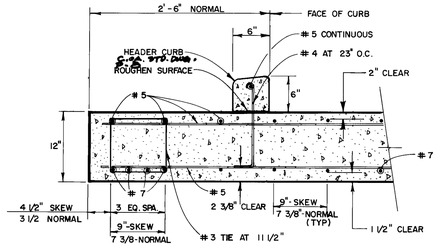
TITLE: PAWIDOL SUBDIVISION
CHANNEL CROSSING PLAN AND DETAILS
VIZCAYA PLAZA N.W.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		4/16/85	Liquid Waste		4/17/85
A.C.E - Design		5/28/85	Traffic		4/8/85
~~A.C.E~~ - Hydrology		4/17/85	Water		4/11/85

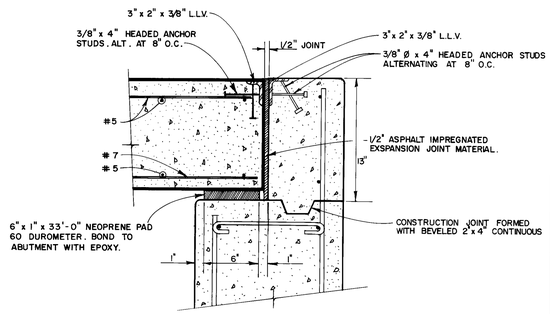
DRAWING NO. 2393 | MAP NO. H-12 | SHEET 6 OF 7

TS = TOP OF SLAB
TC = TOP OF CURB
TCH = TOP OF CHANNEL
FL = FLOW LINE
BF = BOTTOM OF FOOTING



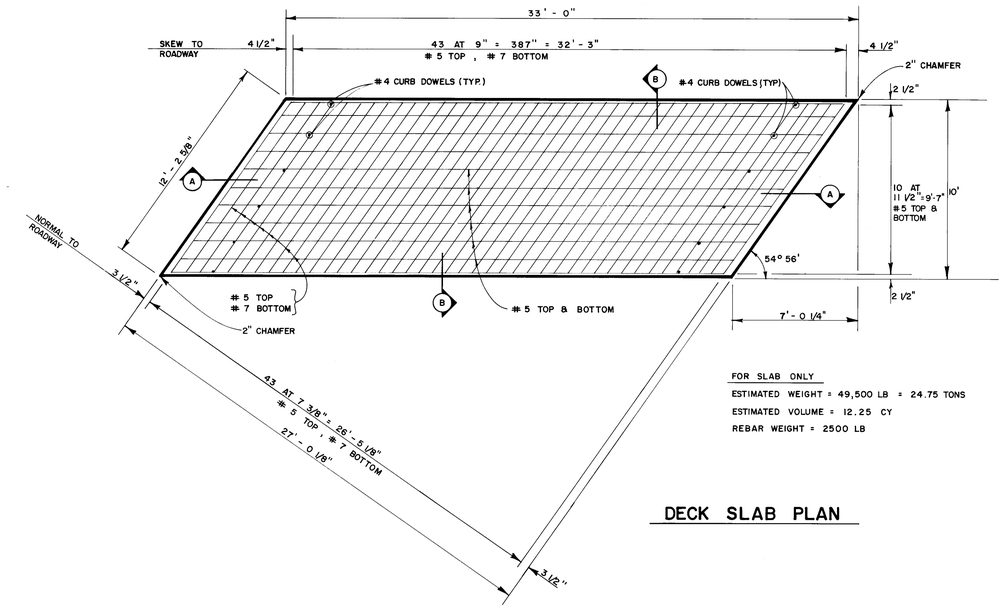


SECTION A



SECTION B

VIZCAYA PLAZA



FOR SLAB ONLY
ESTIMATED WEIGHT = 49,500 LB = 24.75 TONS
ESTIMATED VOLUME = 12.25 CY
REBAR WEIGHT = 2500 LB

DECK SLAB PLAN

GENERAL NOTES

1. Footing shall be founded on natural undisturbed soil. If unsuitable conditions are encountered, contractor shall notify Engineer.
2. Paint all exposed steel with one coat of shop primer and two coats of silver paint according to AASHTO Specification M-70 Type 1 Class B.
3. Chamfer all exposed edges of concrete 3/4" unless otherwise noted.
4. Do not weld reinforcing bars.
5. Surface finish of slab shall meet New Mexico State Highway Department specifications.
6. Procedures and lifting inserts for transporting and installing slab shall be determined by Contractor.
7. All holes or inserts required for installing slab shall be filled after slab is in place and finished to match slab.

MATERIAL SPECIFICATIONS

Concrete: minimum compressive strength at 28 days f'c=4,000 psi

Reinforcing: ASTM A615 Grade 60

Structural Steel: ASTM A-36

Tube Steel: ASTM A-500 Grade B

Headed Anchor Studs: ASTM A-108 Grade 1015 or 1020

DESIGN DATA

Live Load: AASHTO HS20-44

Allowable soil bearing pressure = 2500 psf

Reference specifications (Latest Edition)

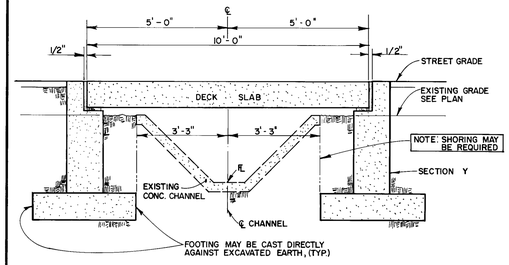
AISC "Code of Standard Practice for Steel Buildings and Bridges"

ACI-301 "Specifications for Structural Concrete for Buildings"

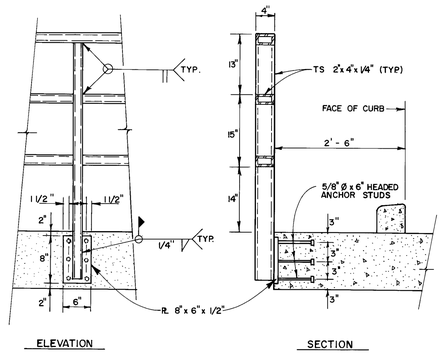
ACI-315 "Standard Detailing Manual"

ACI-318 " Building Code Requirements for Reinforced Concrete"

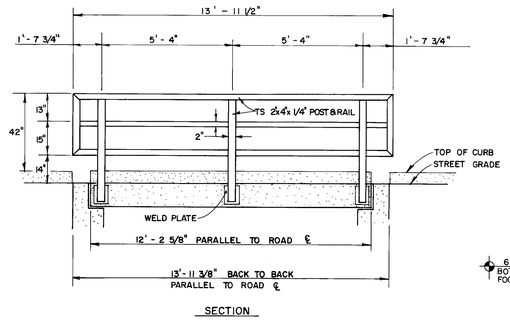
CRSI "Manual of Standard Practice"

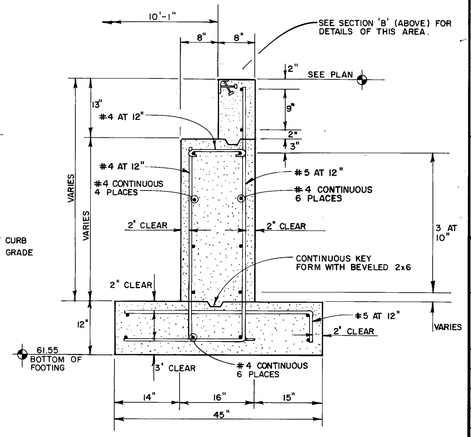


SECTION X



GUARD RAIL





SECTION Y

AS BUILT INFORMATION
CONTRACTOR
STAKED BY DATE
INSPECTOR'S STAMP DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
3-G12 ELEV. = 4963.223
B.C. WEST OF RIO GRANDE BLVD. AND ON THE ℄ OF MATTHEW AVE. NW.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
DENNIS A. SCHMADER
NEW MEXICO
12-6-85

NO.	DATE	BY	REMARKS
			REVISIONS
			DESIGN
			DESIGNED BY B.S. DATE 12-85
			DRAWN BY D.E.C. DATE 12-85
1	1-86		CHANGE STEEL BEAM/GRATE TO CONC. SLAB
			CHECKED BY B.S. DATE 1-86

26 23 93 07 86

WEISS - HINES ENGINEERING, INC.
1100-B ALVARADO N.E.
ALBUQUERQUE, NEW MEXICO 87110
505 266-3444

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: PAWIDOL SUBDIVISION
1 REVISED CHANNEL CROSSING PLAN AND DETAILS VIZCAYA PLAZA N.W.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		2/10/86	Liquid Waste		1/24/86
A.C.E. Design		1/24/86	Traffic N/A		1/24/86
A.C. E.-Hydrology		1/24/86	Water		1/24/86

DRAWING NO. 2393 | MAP NO. H-12 | SHEET 7 OF 7

89302