



City of Albuquerque

July 11, 2000

Chris Weiss, P.E.
C. L. Weiss Engineering
P. O. Box 97
Sandia Park, NM 87047

RE: ENGINEER'S CERTIFICATION FOR CONSTITUTION PLASTIC SURGERY
CENTER, (J-19/ D017), ENGINEER'S STAMP DATED 10/20/99,
CERTIFICATION DATED 7/7/2000.

Dear Mr. Weiss,

Based upon the information provided in your submittal dated July 7, 2000, the Engineering Certification for Certificate of Occupancy for the project referred to above is approved.

If you have any questions, please call me at 924-3988.

Sincerely,

Stuart Reeder, P.E.
Hydrology Division

xc: Whitney Reiersen
✓File

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Constitution Plastic Surgery Center ZONE ATLAS / DRNG. FILE #: J19 / D17

LEGAL DESCRIPTION: Tract 1-A Thunderbird Properties, Albuquerque, Bernalillo County, New Mexico

CITY ADDRESS: N/A

ENGINEERING FIRM: C.L. Weiss Engineering CONTACT: Chris Weiss

ADDRESS: P.O. Box 97, Sandia Park NM, 87047 PHONE: 281-1800

OWNER: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

ARCHITECT: Greg Hicks and Associates CONTACT: _____

ADDRESS: 112 Second St. SW, 87102 PHONE: 243-7492

SURVEYOR: Forstbuaer Surveying, Inc. CONTACT: Ron Forstbauer

ADDRESS: _____ PHONE: 268-2112

CONTRACTOR FIRM: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING:

_____ YES

_____ NO

_____ COPY OF CONFERENCE RECAP
SHEET PROVIDED

DRB NO. _____

EPC NO. _____

PROJ. NO. _____

TYPE OF SUBMITTAL:

_____ DRAINAGE REPORT

_____ DRAINAGE PLAN

_____ CONCEPTUAL GRADING & DRAINAGE PLAN

_____ GRADING PLAN

_____ EROSION CONTROL PLAN

☒ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

_____ SKETCH PLAT

_____ PRELIMINARY PLAT

_____ SITE DEVELOPMENT PLAN

_____ FINAL PLAT

_____ BUILDING PERMIT

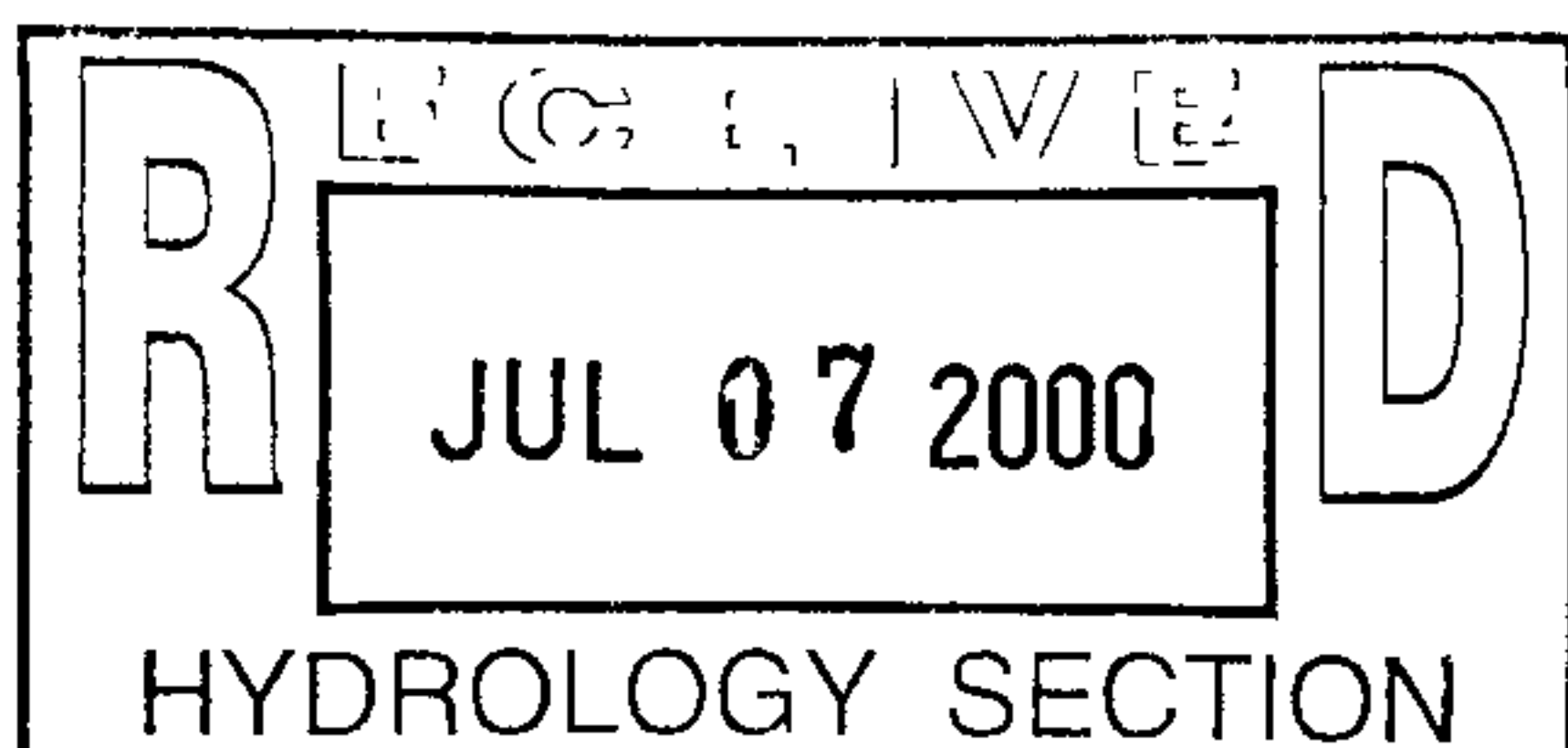
_____ FOUNDATION PERMIT

☒ CERT. OF OCCUPANCY

_____ ROUGH GRADING PERMIT

_____ GRADING / PAVING PERMIT

_____ OTHER _____



DATE SUBMITTED: Thursday, July 06, 2000

BY: C.L. Weiss Engineering, Inc.



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 17, 2000

Chris Weiss, P.E.
C. L. Weiss Engineering
P.O. Box 97
Sandia Park, NM 87047

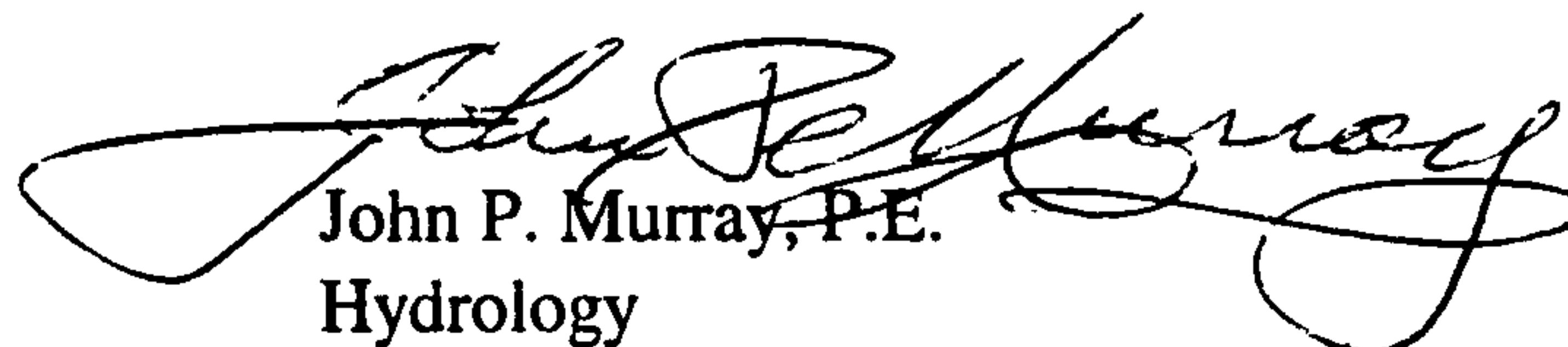
RE: CONSTITUTION PLASTIC SURGERY CENTER (J19-D17). PRELIMINARY AS-BUILT DATA FOR Temporary CERTIFICATE OF OCCUPANCY APPROVAL. ENGINEER'S STAMP DATED MAY 9, 2000.

Dear Mr. Weiss:

Based on the information provided on your May 10, 2000 submittal, the above referenced project is approved for a TEMPORARY (30-day) Certificate of Occupancy, Said approval was given on May 12, 2000.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,


John P. Murray, P.E.
Hydrology

c: Whitney Reiersen
File

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Constitution Plastic Surgery Center (J19/D17)

ZONE ATLAS / DRNG. FILE #: J-19 / D017

LEGAL DESCRIPTION: Tract 1-A Thunderbird Properties, Albuquerque, Bernalillo County, New Mexico

CITY ADDRESS: N/A

ENGINEERING FIRM: C.L. Weiss Engineering

CONTACT: Chris Weiss

ADDRESS: P.O. Box 97, Sandia Park NM, 87047

PHONE: 281-1800

OWNER: _____

CONTACT: _____

ADDRESS: _____

PHONE: _____

ARCHITECT: Greg Hicks and Associates

CONTACT: _____

ADDRESS: 112 Second St. SW, 87102

PHONE: 243-7492

SURVEYOR: Forstbuaer Surveying, Inc.

CONTACT: Ron Forstbauer

ADDRESS: _____

PHONE: 268-2112

CONTRACTOR FIRM: _____

CONTACT: _____

ADDRESS: _____

PHONE: _____

PRE-DESIGN MEETING:

☐ YES

DRB NO. _____

☐ NO

EPC NO. _____

☐ COPY OF CONFERENCE RECAP
SHEET PROVIDED

PROJ. NO. _____

TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT

☐ DRAINAGE PLAN

☐ CONCEPTUAL GRADING & DRAINAGE PLAN

☐ GRADING PLAN

☐ EROSION CONTROL PLAN

☐ ENGINEER'S CERTIFICATION

☒ PRELIMINARY AS-BUILT DATA

CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT

☐ PRELIMINARY PLAT

☐ SITE DEVELOPMENT PLAN

☐ FINAL PLAT

☐ BUILDING PERMIT

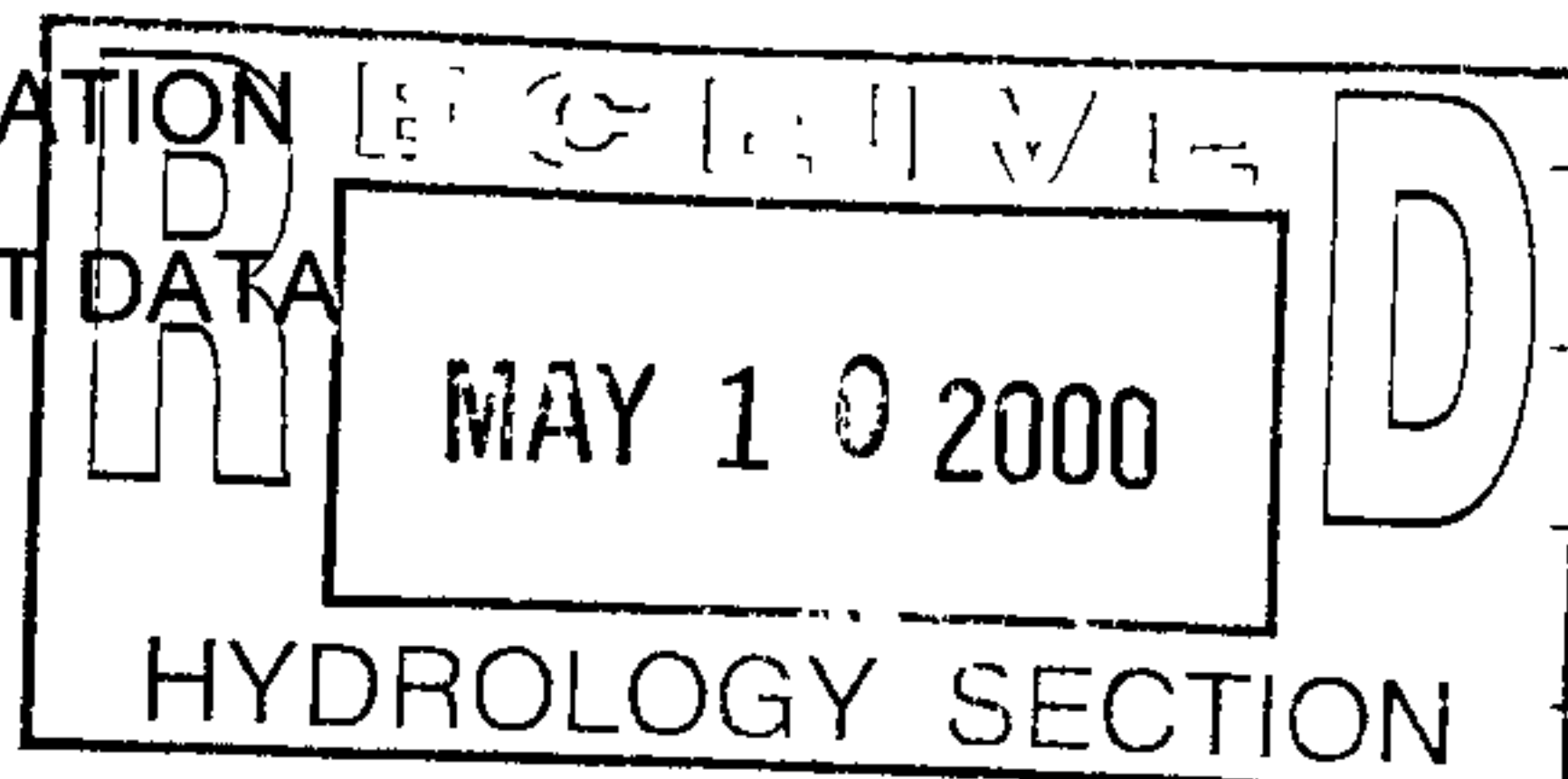
☐ FOUNDATION PERMIT

☐ CERT. OF OCCUPANCY

☐ ROUGH GRADING PERMIT

☐ GRADING / PAVING PERMIT

☒ OTHER Temporary C.O.



DATE SUBMITTED: September 23, 1999

BY: C.L. Weiss Engineering, Inc.

→ 5/12

30-day
temp

[Signature]



C.L. Weiss Engineering, Inc
Post Office Box 97
Sandia Park, N.M. 87047

Phone / Fax (505) 281-1800
Alvarado Office (505) 266-3444

May 9, 2000

Bradley L. Bingham, P.E.
City of Albuquerque – Hydrology Section
P.O. Box 1293
Albuquerque, New Mexico 87103

RE: CONSTITUTION PLASTIC SURGERY CENTER (J19/D17) REQUEST FOR
TEMPORARY C.O.

Dear Mr. Bingham,

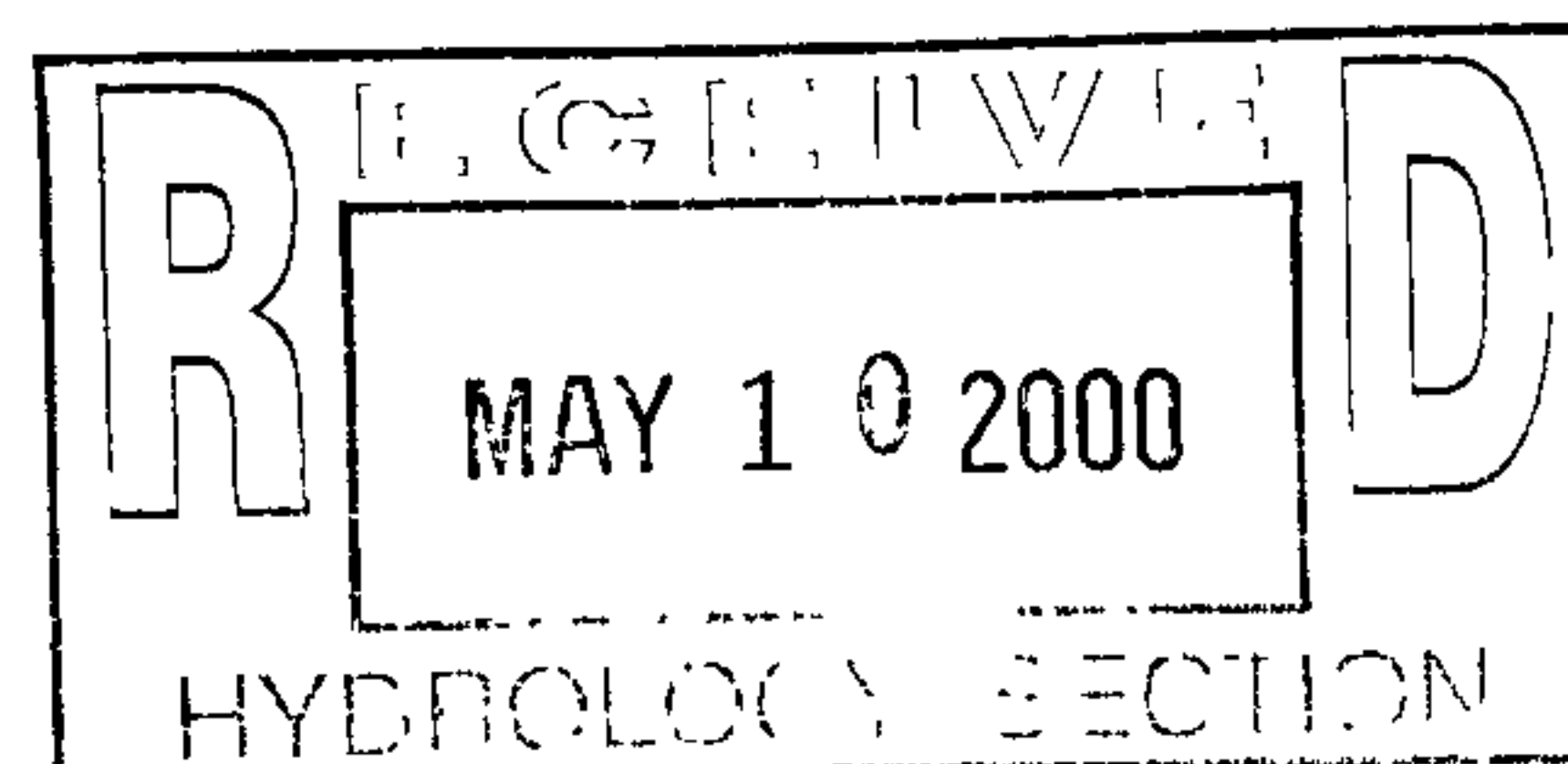
Enclosed with this letter is one copy of the preliminary as-built drainage and grading plan for the above-mentioned project. The construction is in substantial compliance with the approved drainage / grading plan (Engineer's stamp date 10-20-99) with noted exceptions that will be addressed by the contractor prior to submittal for final C.O.

Please don't hesitate to call me at 266-3444 or Chris Weiss at 281-1800 with any questions or comments.

Sincerely,

A handwritten signature in black ink, appearing to read "Bryan J. Bobrick". The signature is fluid and stylized, with a large, sweeping "B" and "R".

Bryan J. Bobrick
C. L. Weiss, Engineering, Inc.



DRAINAGE INFORMATION SHEET

PROJECT TITLE: Constitution Plastic Surgery Center ZONE ATLAS / DRNG. FILE #: J-19
LEGAL DESCRIPTION: Tract 1-A Thunderbird Properties, Albuquerque, Bernalillo County, New Mexico
CITY ADDRESS: N/A

ENGINEERING FIRM: C.L. Weiss Engineering CONTACT: Chris Weiss
ADDRESS: P.O. Box 97, Sandia Park NM, 87047 PHONE: 281-1800

OWNER: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____

ARCHITECT: Greg Hicks and Associates CONTACT: _____
ADDRESS: 112 Second St. SW, 87102 PHONE: 243-7492

SURVEYOR: Forstbuaer Surveying, Inc. CONTACT: Ron Forstbauer
ADDRESS: _____ PHONE: 268-2112

CONTRACTOR FIRM: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING:

☐ YES
☐ NO
☐ COPY OF CONFERENCE RECAP SHEET PROVIDED

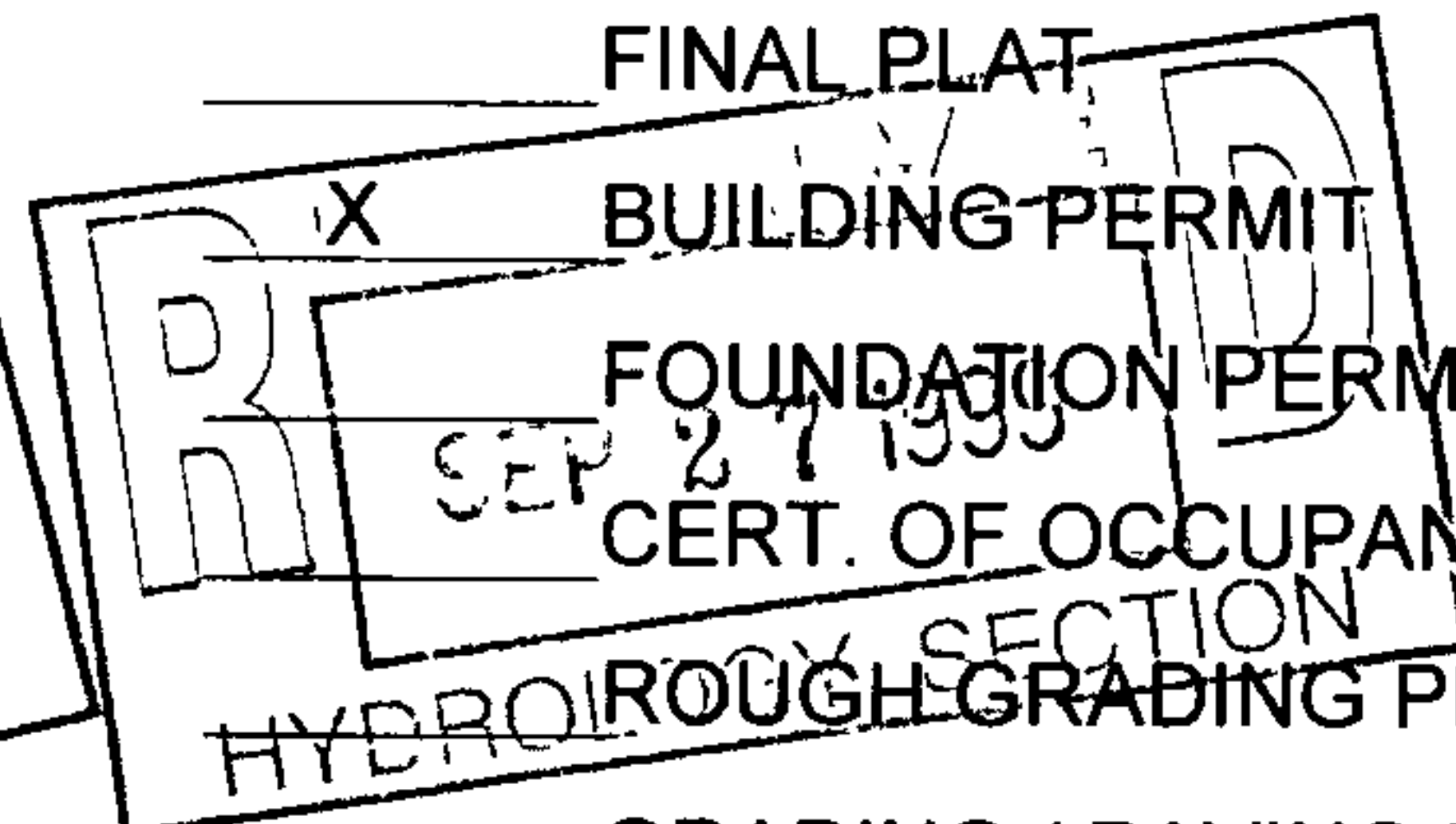
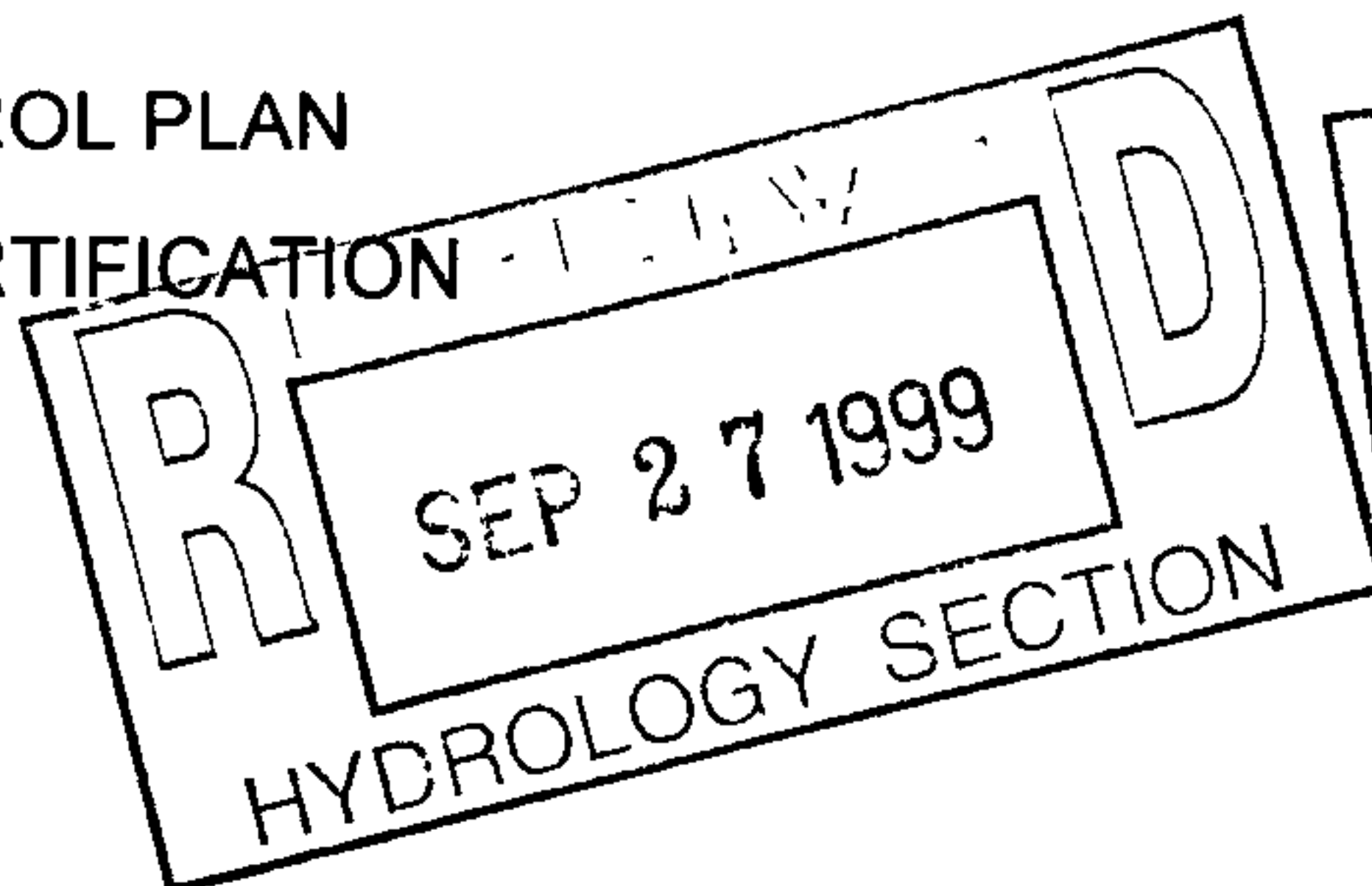
DRB NO. _____
EPC NO. _____
PROJ. NO. _____

TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT
☒ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☒ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT
☐ PRELIMINARY PLAT
☐ SITE DEVELOPMENT PLAN
☐ FINAL PLAT
☒ BUILDING PERMIT
☐ FOUNDATION PERMIT
☐ CERT. OF OCCUPANCY
☐ HYDROLOGY SECTION
☐ ROUGH GRADING PERMIT
☐ GRADING / PAVING PERMIT
☐ OTHER _____



DATE SUBMITTED: September 23, 1999
BY: C.L. Weiss Engineering, Inc.



City of Albuquerque

October 4, 1999

Gregory Hicks, Reg. Arch.,
Gregory T. Hicks & Associates, P.C.
112 Second St. S.W.
Albuquerque, New Mexico 87102

Re: Constitution Plastic Surgery Center [J-19/D017] Site Plan for building permit approval.
Plan is dated-9/24/99, but not placed on acceptable Architect's stamp.

Dear Mr. Hicks,

Based on your submittal, the T.C.L. can be approved and you can proceed to the next step(approval) once a T.C.L. stamped with an architect's stamp, including date, has been submitted. The plan submitted shows a section, where the date is placed, stating "PRELIMINARY PLANS NOT FOR CONSTRUCTION. Each copy of the approved site plan/T.C.L. placed in the building permit set will most certainly be for construction. Please address this concern.

If further assistance is needed, please feel free to call 924-3620.

Sincerely,

Mike Zamora,
Commercial Plan Checker

cc:
Engineer
Hydrology File
Office File



City of Albuquerque

November 29, 1999

Chris Weiss, PE
C.L. Weiss Engineering, Inc.
PO Box 97
Sandia Park, NM 87047

**Re: Constitution Plastic Surgery Center Grading and Drainage Plan
Engineer's Stamp dated 10-20-99, (J19/D17)**

Dear Mr. Weiss,

Based on your submittal dated 9-27-99 and your additional submittal dated 11-18-99, the above referenced site is approved for Building Permit.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Also, prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

If I can be of further assistance, you can contact me at 924-3986.

Sincerely,

Bradley L. Bingham, PE
Hydrology Review Engineer

C: file



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

November 15, 1999

Chris Weiss, PE
C.L. Weiss Engineering, Inc.
PO Box 97
Sandia Park, NM 87047

**Re: Constitution Plastic Surgery Center Grading and Drainage Plan
Engineer's Stamp dated 10-20-99, (J19/D17)**

Dear Mr. Weiss,

Before your submittal dated 9-27-99 can be approved for Building Permit, the following additions/changes to your plan must be completed:

- 1) Although it is probably a small amount, please quantify the upstream runoff that crosses the southern portion of the site with regard to drainage area, land treatment, etc.
- 2) The outfall from this lot and the upstream runoff must be combined and then the adequacy of the outfall infrastructure (i.e. swale, rundown and inlet) must be discussed. Please show more detail about the existing drainage elements.

If you have any questions about my comments, you can contact me at 924-3986.

Sincerely,

Bradley L. Bingham, PE
Hydrology Review Engineer

C: file



C.L. Weiss Engineering, Inc
Post Office Box 97
Sandia Park, N.M. 87047

Phone / Fax (505) 281-1800
Alvarado Office (505) 266-3444

November 18, 1999

*please log-in
Nov 19th*

Mr. Bradley L. Bingham, PE
Hydrology Review Engineer
City of Albuquerque
P.O. Box 1293
Albuquerque, New Mexico 87103

RE: CONSTITUTION PLASTIC SURGERY CENTER GRADING AND DRAINAGE
PLAN, ENGINEER'S STAMP DATED 10-20-99 (J19/D17)

Dear Mr. Bingham,

Per your letter dated November 15, 1999, the following supplemental information is provided for your review. Each numbered comment below corresponds to the associated comment from your letter:

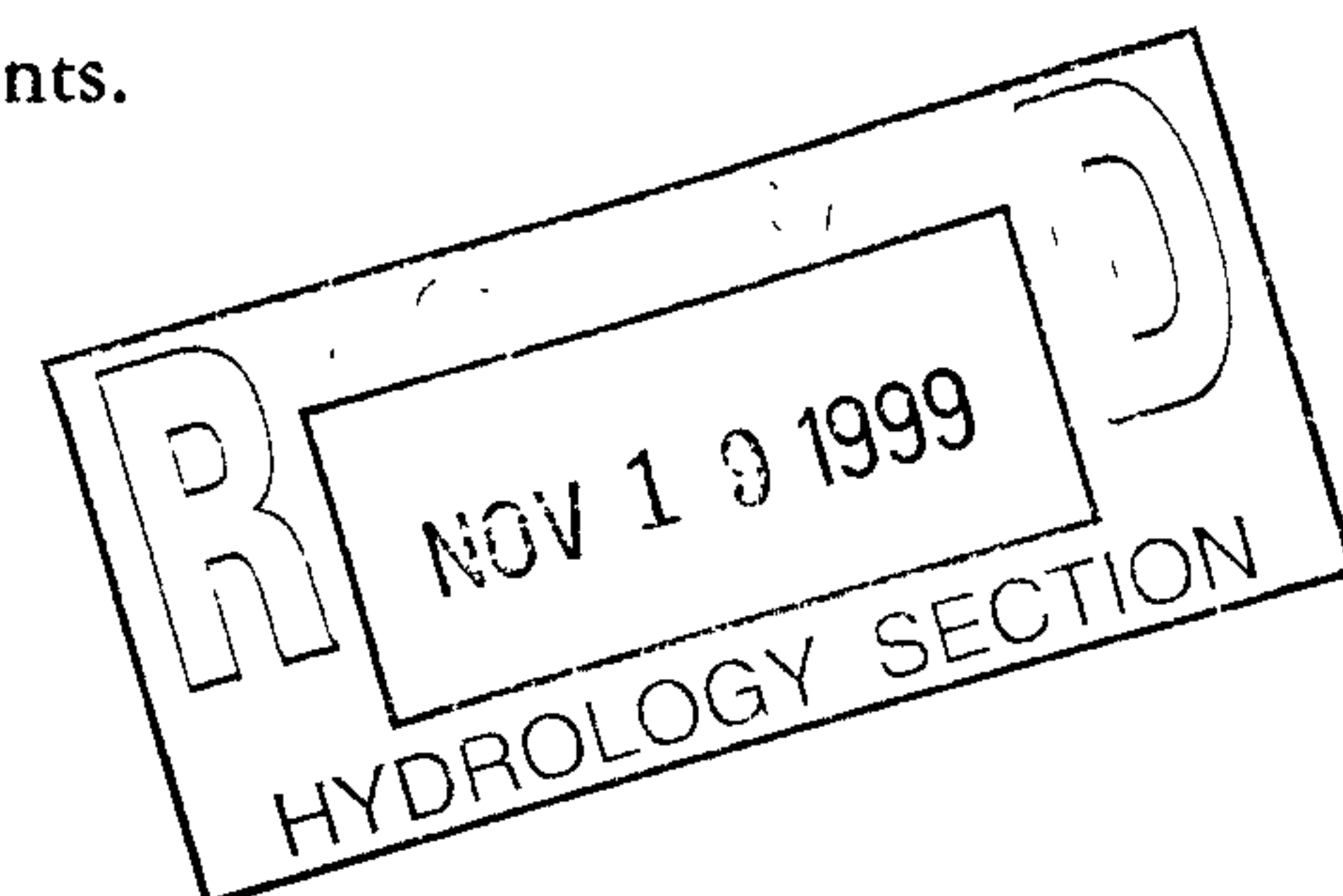
1. The approximate offsite run-off that crosses the southern portion of the site is 4.0 cfs. See attached calculations for drainage area, land treatment and asphalt swale analysis of the flows. These flows will combine with our site flows of 4.6 cfs and pass through a heavily grassed natural drainage swale (not well defined) to the existing grouted rip-rap pad.
- 2a. Per calculations, the overall basin discharging to the main inlet to Interstate 40 AMAFCA channel (including Tracts 1-A, 2-A-1 and 2-B) will be 13.3 cfs.
- 2b. Based on site observations regarding the approximate slope, side slope, width, etc. of the existing grouted rip-rap channel, an educated guess of the capacity is approximately 330 cfs (see supplemental calculations and photo sheet).
- 2c. Based on site observations, the inlet to the AMAFCA channel is located within the I-40 ROW and the existing grate size is equivalent to a COA double Type D. The available head is approximately 6'. Using this information, the grate capacity has the capacity to accept up to 113 cfs. Therefore, the inlet will function with up to 88% clogging and still accept the basin flows.

Please don't hesitate to call me at 281-1800 with any questions or comments.

Sincerely,

A handwritten signature in black ink, appearing to read "Chris Weiss", written over a horizontal line.

Christopher L. Weiss
C.L. Weiss Engineering, Inc.

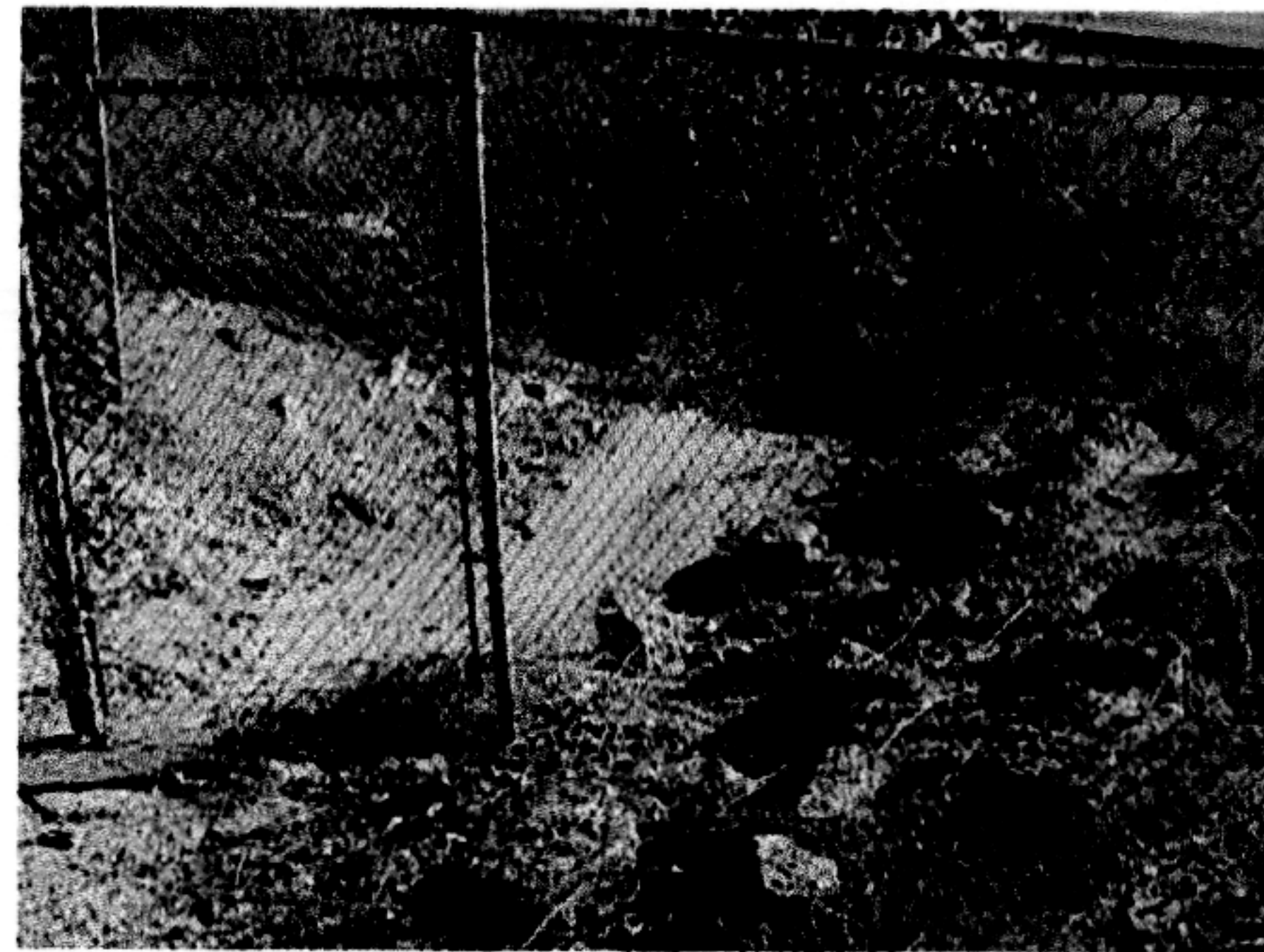




Overview from I-40 / Pennsylvania



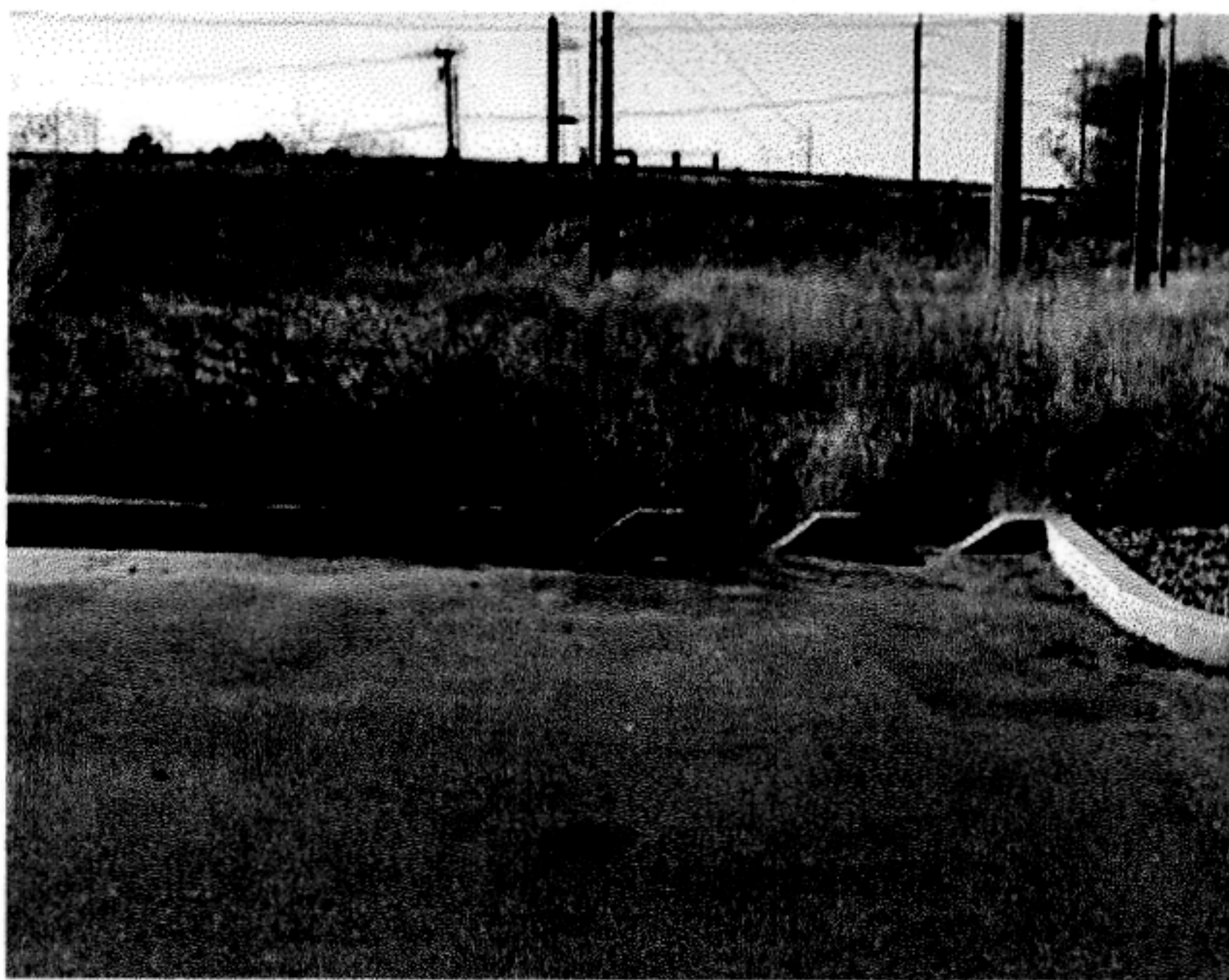
I-40 Inlet Sump



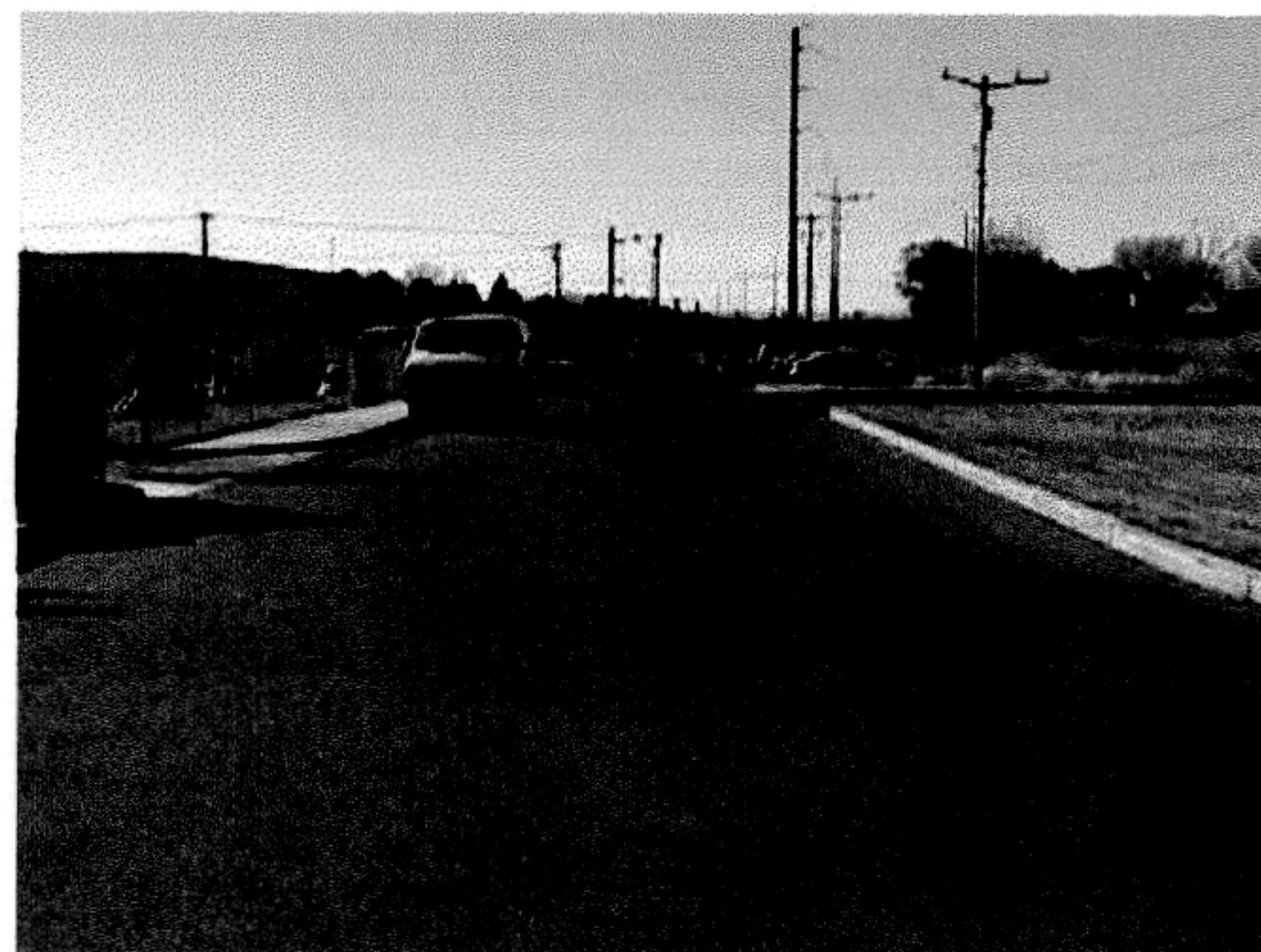
Rip-rap rundown



Back access drive outlet



Parking lot outlet



Parking drainage area



Child care play ground



Back access drive

OFF-SITE BASIN - FLOWS FROM Tract 2-A-1 CROSSING THROUGH DRAINAGE EASEMENT

Based on site observation, approximately 60% of the adjacent property including the main parking area and the building, drains west through the existing Private 20' Surface Drainage Easement.

Area of basin flows = 36209 SF = 0.8 Ac.

The following calculations are based on Treatment areas as shown in table to the right
Sub-basin Weighted Excess Precipitation (see formula above)

Weighted E = 2.22 in.

Sub-basin Volume of Runoff (see formula above)

V360 = 6687 CF

Sub-basin Peak Discharge Rate: (see formula above)

Qp = 4.0 cfs

TREATMENT	
A =	0%
B =	10%
C =	0%
D =	90%

Per Triangular channel calculations (provided separately), the asphalt swale as designed has the capacity to carry 6.2 cfs at the entrance (0.2' deep) and 28.33 cfs at the outfall point (0.5' deep).

BASIN - FLOWS FROM Tract 2-A-1 JOINING BASIN TO MAIN INLET

Based on site observation, the remaining 40% of the adjacent property including the sand playground area drains south/west through the C.O.A. Well site (Tract 2-B) to combine with the overall basin flows to discharge to the Interstate 40 concrete lined channel (AMAFCA).

Area of basin flows = 24139 SF = 0.6 Ac.

The following calculations are based on Treatment areas as shown in table to the right
Sub-basin Weighted Excess Precipitation (see formula above)

Weighted E = 1.26 in.

Sub-basin Volume of Runoff (see formula above)

V360 = 2525 CF

Sub-basin Peak Discharge Rate: (see formula above)

Qp = 1.6 cfs

TREATMENT	
A =	65%
B =	0%
C =	0%
D =	35%

BASIN - FLOWS FROM Tract 2-B (WELL SITE) JOINING BASIN TO MAIN INLET

Based on site observation, 100% of the adjacent COA Well property (Tract 2-B) combines with the overall basin flows to discharge to the Interstate 40 concrete lined channel (AMAFCA).

Area of basin flows = 11889 SF = 0.3 Ac.

The following calculations are based on Treatment areas as shown in table to the right
Sub-basin Weighted Excess Precipitation (see formula above)

Weighted E = 1.85 in.

Sub-basin Volume of Runoff (see formula above)

V360 = 1833 CF

Sub-basin Peak Discharge Rate: (see formula above)

Qp = 1.1 cfs

TREATMENT	
A =	30%
B =	0%
C =	0%
D =	70%

SUMMARY

Tract 1-A (proposed site)	=	5.6 CFS
Tract 2-A-1 (North sub-basin thru site)	=	4.0 CFS
Tract 2-A-1 (South sub-basin)	=	1.6 CFS
Tract 2-B (Well site)	=	1.1 CFS
Misc. ROW discharge (estimate)	=	1.0 CFS
Total discharge to basin inlet	=	13.3 CFS

EXISTING INLET GRATE CAPACITY

Oriface Equation: Solve for Q

$Q = C \cdot A \cdot (2 \cdot g \cdot h)^{0.5}$

Where

Q	=	113 2 cfs
C	=	0.6
A	=	9 6 sq ft.
g	=	32.2 ft/sec^2
h	=	6 ft

Note: Area (A) at left is based on the open area of a double COA Albuquerque Grate. The actual grate which drains the overall basin to the I-40 AMAFCA channel is larger. The available head at the inlet is six to eight feet. Note that the grate could be 90% clogged and still accept the overall basin flows.

Top of asphalt swale
Worksheet for Triangular Channel

Project Description	
Project File	c:\haestad\fmw\hicks-co.fm2
Worksheet	Dip section with easement
Flow Element	Triangular Channel
Method	Manning's Formula
Solve For	Discharge

Input Data	
Mannings Coefficient	0.015
Channel Slope	0.020800 ft/ft
Depth	0.20 ft
Left Side Slope	50.000000 H : V
Right Side Slope	50.000000 H : V

Results		
• Discharge	6.16	cfs
Flow Area	2.00	ft ²
Wetted Perimeter	20.00	ft
Top Width	20.00	ft
Critical Depth	0.25	ft
Critical Slope	0.006575	ft/ft
Velocity	3.08	ft/s
Velocity Head	0.15	ft
Specific Energy	0.35	ft
Froude Number	1.72	
Flow is supercritical.		

Base of asphalt swale
Worksheet for Triangular Channel

Project Description	
Project File	c:\haestad\fmw\hicks-co.fm2
Worksheet	Dip section with easement - bottom
Flow Element	Triangular Channel
Method	Manning's Formula
Solve For	Discharge

Input Data	
Mannings Coefficient	0.015
Channel Slope	0.020800 ft/ft
Depth	0.50 ft
Left Side Slope	20.000000 H : V
Right Side Slope	20.000000 H : V

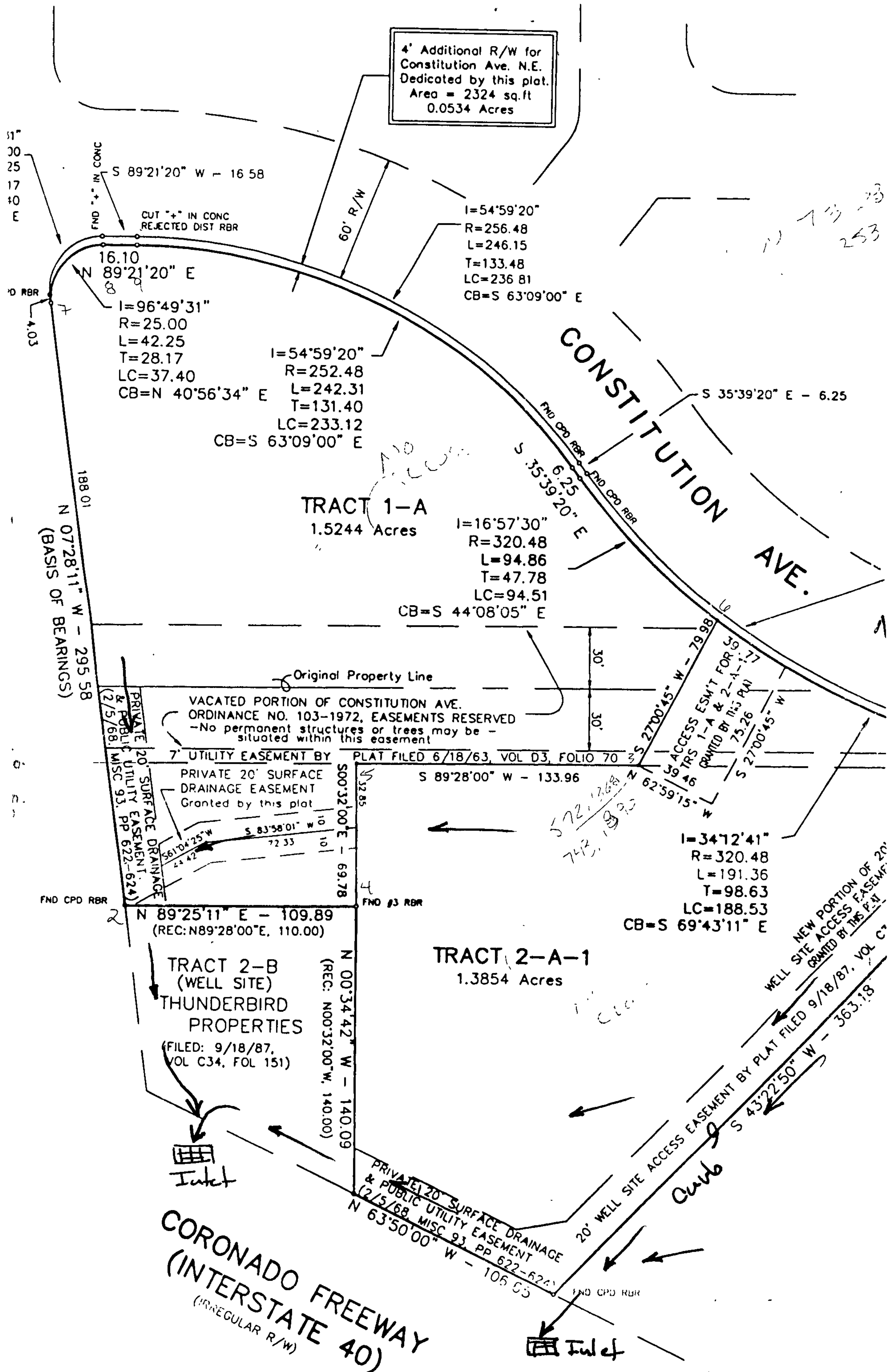
Results		
• Discharge	28.33	cfs
Flow Area	5.00	ft ²
Wetted Perimeter	20.02	ft
Top Width	20.00	ft
Critical Depth	0.66	ft
Critical Slope	0.004754	ft/ft
Velocity	5.67	ft/s
Velocity Head	0.50	ft
Specific Energy	1.00	ft
Froude Number	2.00	
Flow is supercritical.		

Grouted Rip-Rap swale to main inlet
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\haestad\fmw\hicks-co.fm2
Worksheet	Grouted rip-rap channel to inlet
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Discharge

Input Data	
Mannings Coefficient	0.035
Channel Slope	0.010000 ft/ft
Depth	3.00 ft
Left Side Slope	2.000000 H : V
Right Side Slope	2.000000 H : V
Bottom Width	10.00 ft

Results		
Discharge	328.84	cfs
Flow Area	48.00	ft ²
Wetted Perimeter	23.42	ft
Top Width	22.00	ft
Critical Depth	2.68	ft
Critical Slope	0.015369	ft/ft
Velocity	6.85	ft/s
Velocity Head	0.73	ft
Specific Energy	3.73	ft
Froude Number	0.82	
Flow is subcritical.		



DRAINAGE INFORMATION SHEET

PROJECT TITLE: Constitution Plastic Surgery Center ZONE ATLAS / DRNG. FILE #: J-19 12017
LEGAL DESCRIPTION: Tract 1-A Thunderbird Properties, Albuquerque, Bernalillo County, New Mexico
CITY ADDRESS: N/A

ENGINEERING FIRM: C.L. Weiss Engineering CONTACT: Chris Weiss

ADDRESS: P.O. Box 97, Sandia Park NM, 87047 PHONE: 281-1800

OWNER: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

ARCHITECT: Greg Hicks and Associates CONTACT: _____

ADDRESS: 112 Second St. SW, 87102 PHONE: 243-7492

SURVEYOR: Forstbuaer Surveying, Inc. CONTACT: Ron Forstbauer

ADDRESS: _____ PHONE: 268-2112

CONTRACTOR FIRM: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING:

_____ YES

_____ NO

_____ COPY OF CONFERENCE RECAP
SHEET PROVIDED

DRB NO. _____

EPC NO. _____

PROJ. NO. _____

TYPE OF SUBMITTAL:

_____ DRAINAGE REPORT

☒ DRAINAGE PLAN

_____ CONCEPTUAL GRADING & DRAINAGE PLAN

☒ GRADING PLAN

_____ EROSION CONTROL PLAN

_____ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

_____ SKETCH PLAT

_____ PRELIMINARY PLAT

_____ SITE DEVELOPMENT PLAN

_____ FINAL PLAT

☒ BUILDING PERMIT

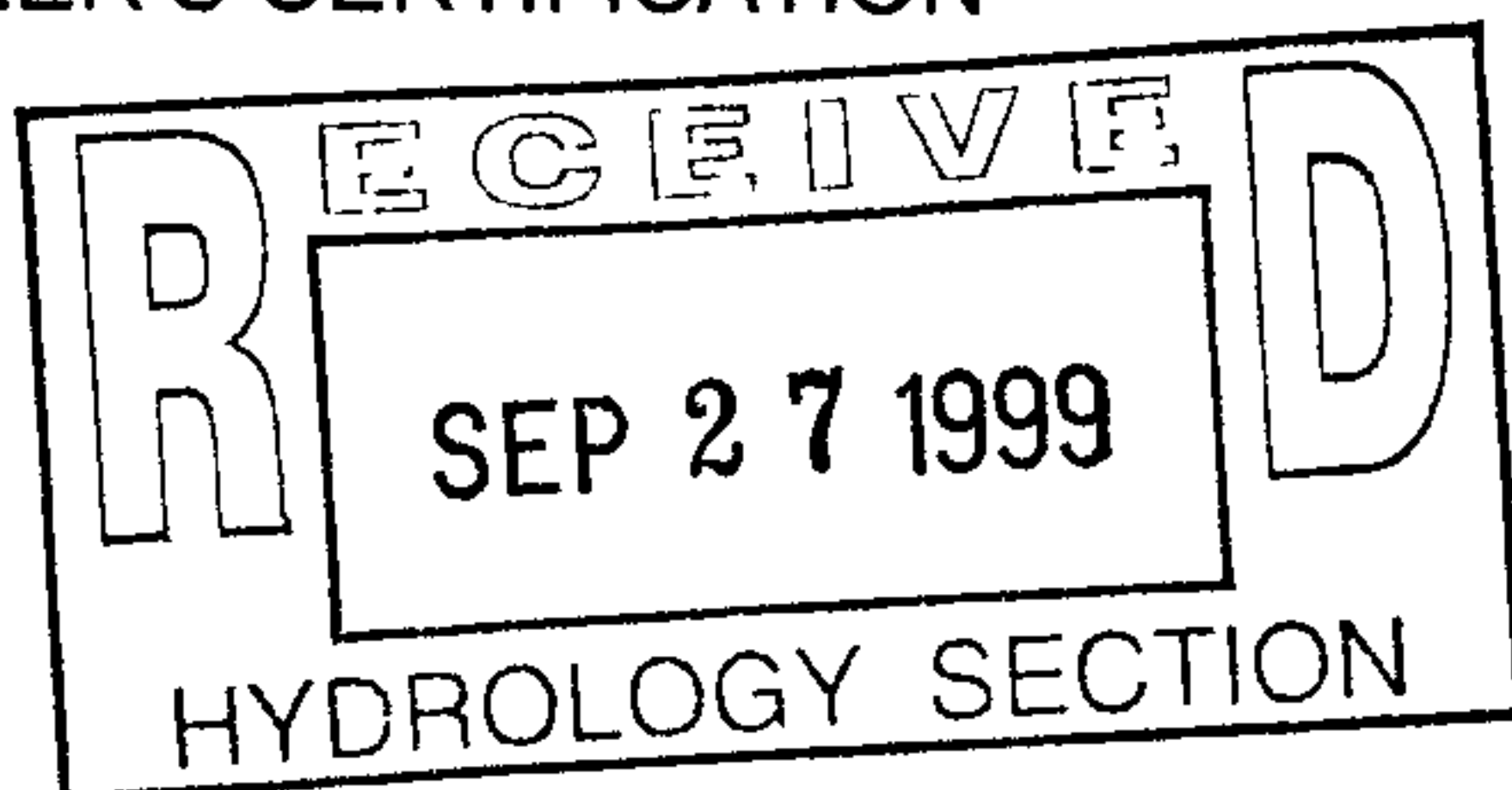
_____ FOUNDATION PERMIT

_____ CERT. OF OCCUPANCY

_____ ROUGH GRADING PERMIT

_____ GRADING / PAVING PERMIT

_____ OTHER _____



DATE SUBMITTED: September 23, 1999

BY: C.L. Weiss Engineering, Inc.