



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 6, 2001

Jackie S. McDowell, P.E.
McDowell Engineering, Inc.
7820 Beverly Hills Ave NE
Albuquerque, New Mexico 87122

RE: YDI FACILITY- 6303 CENTRAL SW (K-11/D62)
ENGINEERS CERTIFICATION FOR CERTIFICATE OF OCCUPANCY
ENGINEERS STAMP DATED 2/18/2000 Rev. 4/26/2000
ENGINEERS CERTIFICATION DATED 3/12/2001

Dear Ms. McDowell:

Based on the information provided on your submittal March 13, 2001, the above referenced project **can not** be approved for a Certificate of Occupancy at this time.

The S.O. #19 on the Engineers Certification requires the City's storm drainage inspector's signature prior to approval of the Certificate of Occupancy. Also a firm easement for the cross-lot drainage of the adjacent property must be obtained per letter dated May 3, 2000.

When the above have been obtained and submitted to the City's Hydrology Division for approval, we will take every measure to expedite the Certificate of Occupancy.

Note: The City is adopting a new standard Engineers Certification format to be used by all Engineers when certifying grading and drainage plans. Please utilize this form for future submittals.

If I can be of further assistance, please feel free to contact me at 924-3980.

Sincerely,

Bradley L. Bingham, P.E.
Senior Civil Engineer, Hydrology
Public Works Department

c: Teresa Martin, COA
File

DRAINAGE INFORMATION SHEET

PROJECT TITLE: YDI FACILITY ZONE ATLAS/DRNG. FILE #: K-11/D062
DRB #: _____ EPC #: _____ WORK ORDER #: _____
LEGAL DESCRIPTION: LOT #3, YUCCA ADDITION NO. 1
CITY ADDRESS: 6306 WEST CENTRAL AVE.
ENGINEERING FIRM: MCDOWELL ENGINEERING, INC. CONTACT: JACKIE MCDOWELL
ADDRESS: 7820 BEVERLY HILLS AVE. NE, 87122 PHONE: 828-2430
OWNER: RUDY CHAVEZ CONTACT: RUDY CHAVEZ
ADDRESS: 6301 CENTRAL AVE. NW PHONE: 831-6038
ARCHITECT: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
SURVEYOR: SOUTHWEST SURVEYING COMPANY CONTACT: DAN GRANEY
ADDRESS: 333 LOMAS BLVD. PHONE: 998-0303
CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

CHECK TYPE OF APPROVAL SOUGHT:

☐ DRAINAGE REPORT	☐ SKETCH PLAT APPROVAL
☐ DRAINAGE PLAN	☐ PRELIMINARY PLAT APPROVAL
☐ CONCEPTUAL GRADING & DRAIN. PLAN	☐ S.DEV PLAN FOR SUB'D APPROVAL
☐ GRADING PLAN	☐ S.DEV PLAN FOR BLDG PMT APPR.
☐ EROSION CONTROL PLAN	☐ SECTOR PLAN APPROVAL
☒ ENGINEER'S CERTIFICATION	☐ FINAL PLAT APPROVAL
☐ OTHER _____	☐ FOUNDATION PERMIT APPROVAL
	☐ BUILDING PERMIT APPROVAL
PRE-DESIGN MEETING:	☒ CERT. OF OCCUPANCY APPROVAL
☐ YES	☐ GRADING PERMIT APPROVAL
☒ NO	☐ PAVING PERMIT APPROVAL
☐ COPY PROVIDED	☐ S.A.D. DRAINAGE REPORT
	☐ DRAINAGE REQUIREMENTS
	☐ OTHER _____ (SPECIFY)

DATE SUBMITTED: MARCH 13, 2001

BY: JACKIE S. MCDOWELL, P.E.



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 3, 2000

Jackie S. McDowell, P.E.
McDowell Engineering, Inc.
7820 Beverly Hills Ave, NE
Albuquerque, NM 87122

RE: YDI FACILITY - 6306 West Central Avenue (K11-D62). Revised GRADING AND DRAINAGE PLAN FOR BUILDING PERMIT AND SO#19 PERMIT APPROVALS. ENGINEER'S STAMP DATED APRIL 26, 2000.

Dear Ms. McDowell:

Based on the information provided on your April 26, 2000 submittal, the above referenced project is approved for both Building Permit and SO#19 Permit. Identify plan as YDI Facility.

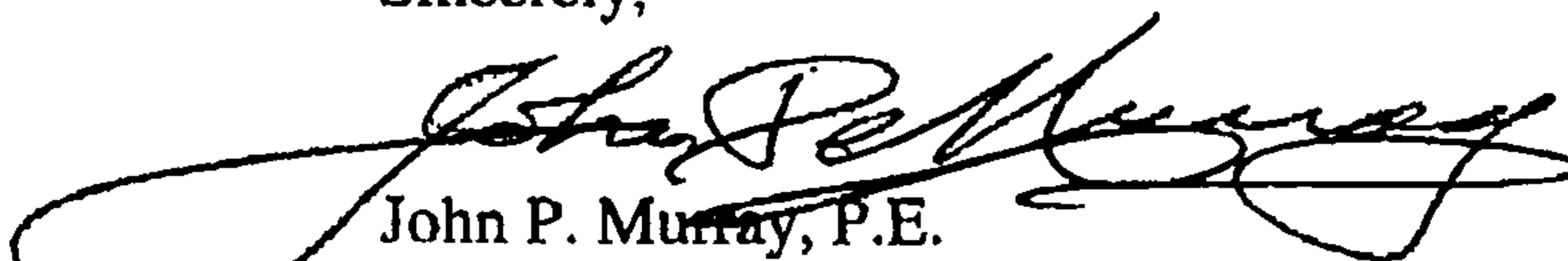
Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Prior to Certificate of Occupancy approval, an Engineer's Certification per the DPM will be required.

***N.B. A firm easement to cross the adjacent property shall be required prior to C.O. approval.

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

Sincerely,



John P. Murray, P.E.
Hydrology

c: Pam Lujan
D. Salas, St. Maint.
Whitney Reiersen
File

DRAINAGE INFORMATION SHEET

PROJECT TITLE: YDI FACILITY ZONE ATLAS/DRNG. FILE #: K-11/D062
DRB #: _____ EPC #: _____ WORK ORDER #: _____
LEGAL DESCRIPTION: LOT #3, YUCCA ADDITION NO. 1
CITY ADDRESS: 6306 WEST CENTRAL AVE.
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ARCHITECT: _____ CONTACT: _____
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ADDRESS: 333 LOMAS BLVD. PHONE: 998-0303
CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

CHECK TYPE OF APPROVAL SOUGHT:

☐ DRAINAGE REPORT
☐ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAIN. PLAN
☐ GRADING PLAN
☐ EROSION CONTROL PLAN
☒ ENGINEER'S CERTIFICATION
☐ OTHER _____

☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ S.DEV PLAN FOR SUB'D APPROVAL
☐ S.DEV PLAN FOR BLDG PMT APPR.
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☐ BUILDING PERMIT APPROVAL
☒ CERT. OF OCCUPANCY APPROVAL
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ S.A.D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☐ OTHER _____ (SPECIFY)

PRE-DESIGN MEETING:

☐ YES
☒ NO
☐ COPY PROVIDED

DATE SUBMITTED: MARCH 13, 2001

BY: JACKIE S. MCDOWELL, P.E.

Nt00 5019

+

CASEMENT

FOR CROSS-LOT

DRAINAGE



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 3, 2000

Jackie S. McDowell, P.E.
McDowell Engineering, Inc.
7820 Beverly Hills Ave, NE
Albuquerque, NM 87122

RE: YDI FACILITY - 6306 West Central Avenue (K11-D62). Revised GRADING AND DRAINAGE PLAN FOR BUILDING PERMIT AND SO#19 PERMIT APPROVALS. ENGINEER'S STAMP DATED APRIL 26, 2000.

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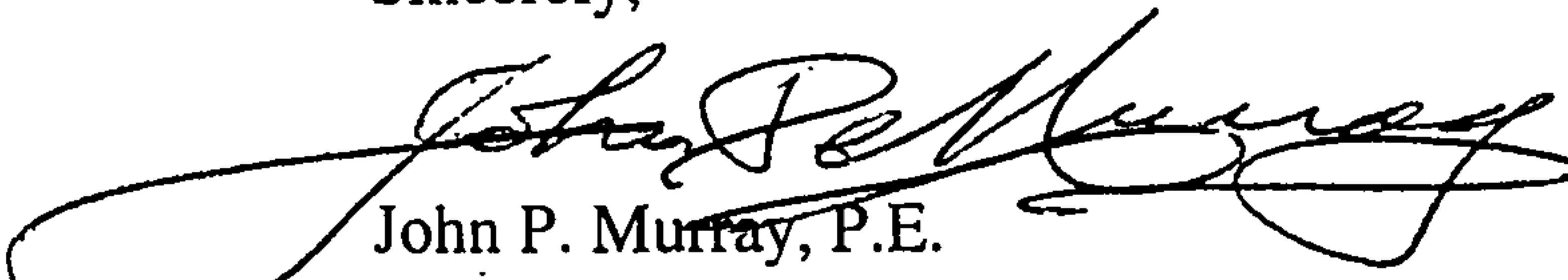
Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Prior to Certificate of Occupancy approval, an Engineer's Certification per the DPM will be required.

***N.B. A firm easement to cross the adjacent property shall be required prior to C.O. approval.

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

Sincerely,


John P. Murray, P.E.
Hydrology

c: Pam Lujan
D. Salas, St. Maint.
Whitney Reiersen
File



City of Albuquerque

March 1, 2000

Jackie McDowell, P.E.
McDowell Engineering, Inc.
7820 Beverly Hills Ave., NE
Albuquerque, NM 87122

RE: GRADING & DRAINAGE PLAN FOR YDI FACILITY (K-11/D062)
SUBMITTED FOR BUILDING PERMIT APPROVAL

Dear Ms McDowell,

I have reviewed your submittal, referred to above, and have the following comments.

1. Under *EXISTING CONDITIONS*, please describe how the site drains, or fails to drain, at present.
2. Please provide existing and proposed grades per the DPM standards for drainage plans. Please use the standards for flow arrows, contour lines and so on.
3. Two flow lines and proposed grades indicate that the parking lot will discharge onto the neighboring property through curb openings. Without a drainage easement across that property, the owner of the YDI Facility may not continue to discharge in this manner.
4. Finally, you must provide some means for draining the pond; retention ponds are not allowed.

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

Sincerely,

Stuart Reeder, P.E.

Stuart Reeder, P.E.
Hydrology Division

xc: Whitney Reiersen, Hydrology
File

McDowell Engineering, Inc.

7820 Beverly Hills Ave. NE
Albuquerque, New Mexico 87122
Telephone: (505)828-2430 Fax: (505)821-4857

LETTER OF TRANSMITTAL

TO: CITY OF ALBUQUERQUE
HYDROLOGY DEPT.
600 SECOND ST. NW
PLAZA DEL SOL - MAIN LEVEL - FRONT COUNTER (WEST)

DATE: 3-13-01

PROJ. NO.: _____

RE: YDI FACILITY

WE ARE SENDING YOU: ☒ Attached ☐ Under separate cover via _____ the following items:

COPIES	DATE	DESCRIPTION
1	3-12-01	ENGINEER'S CERTIFICATION (AS-BUILT)
1		DRAINAGE INFO. SHEET

THESE ARE TRANSMITTED as checked below:

☒ For approval ☐ For your use ☐ As requested ☐ For review and comment

☐ Other _____

REMARKS:

COPY TO: file

SIGNED: _____

Jackie S. McDowell, P.E.

McDowell Engineering, Inc.

7820 Beverly Hills Ave. NE

Albuquerque, New Mexico 87122

Telephone: (505)828-2430

Fax: (505)821-4857

**FAX
TRANSMITTAL**

TO:

Rudy Torres

DATE:

3-20-01

PROJ. NO.:

Tel: 681-0248

FAX NO.:

352-3400

RE:

YDI FACILITY

WE ARE SENDING YOU THE FOLLOWING:

DATE	DESCRIPTION
3/3/00	Approval letter from COA for G & D Plan
	Blank EASEMENT form - to be completed -
	- Signed & Notarized
	- then fax a copy to me & deliver a
	copy to Terry Martin @ COA Hydrology

THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ For your use ☐ As requested ☐ For review and comment

☐ Other _____

REMARKS:

Rudy - I talked to Terry Martin - COA Hydrology
She needs the following info - before issuing the C.O.

(1) - The "S.O. 19" must be inspected by a COA inspector from
Storm Drainage Maintenance.

(2) - The easement must be completed & a copy given to Hydrology

COPY TO:

for

SIGNED:



Jackie S. McDowell, P.E.

NUMBER OF COPIES INCLUDING THIS COVER SHEET

5



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 3, 2000

Jackie S. McDowell, P.E.
McDowell Engineering, Inc.
7820 Beverly Hills Ave, NE
Albuquerque, NM 87122

RE: YDI FACILITY - 6306 West Central Avenue (K11-D62). Revised GRADING AND DRAINAGE PLAN FOR BUILDING PERMIT AND SO#19 PERMIT APPROVALS. ENGINEER'S STAMP DATED APRIL 26, 2000.

Dear Ms. McDowell:

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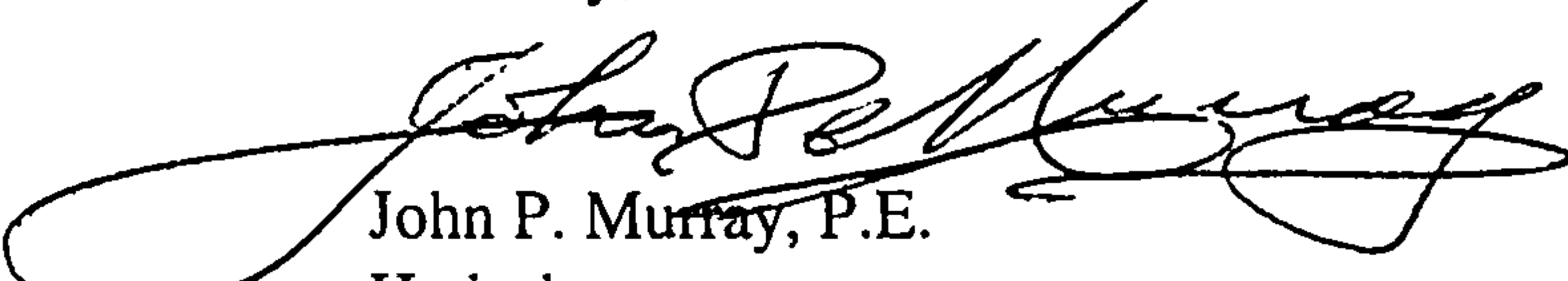
Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

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

Sincerely,


John P. Murray, P.E.
Hydrology

c: Pam Lujan
D. Salas, St. Maint.
Whitney Reiersen
File

4/28

Signal off

A stylized handwritten signature, possibly reading 'J. M.', written in dark ink.

Hold C.O.
Til final assessment.



City of Albuquerque

March 1, 2000

Jackie McDowell, P.E.
McDowell Engineering, Inc.
7820 Beverly Hills Ave., NE
Albuquerque, NM 87122

RE: GRADING & DRAINAGE PLAN FOR YDI FACILITY (K-11/D062)
SUBMITTED FOR BUILDING PERMIT APPROVAL

Dear Ms McDowell,

I have reviewed your submittal, referred to above, and have the following comments.

1. Under *EXISTING CONDITIONS*, please describe how the site drains, or fails to drain, at present.
2. Please provide existing and proposed grades per the DPM standards for drainage plans. Please use the standards for flow arrows, contour lines and so on.
3. Two flow lines and proposed grades indicate that the parking lot will discharge onto the neighboring property through curb openings. Without a drainage easement across that property, the owner of the YDI Facility may not continue to discharge in this manner.
4. Finally, you must provide some means for draining the pond; retention ponds are not allowed.

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

Sincerely,

Stuart Reeder, P.E.

Stuart Reeder, P.E.
Hydrology Division

xc: Whitney Reiersen, Hydrology
~~File~~

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OWNER: RUDY CHAVEZ CONTACT: RUDY CHAVEZ
ADDRESS: 6301 CENTRAL AVE. NW PHONE: 831-6038
ARCHITECT: _____ CONTACT: _____
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ADDRESS: 333 LOMAS BLVD. PHONE: 998-0303
CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

CHECK TYPE OF APPROVAL SOUGHT:

☐ DRAINAGE REPORT
☒ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAIN. PLAN
☒ GRADING PLAN
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☐ ENGINEER'S CERTIFICATION
☐ OTHER _____

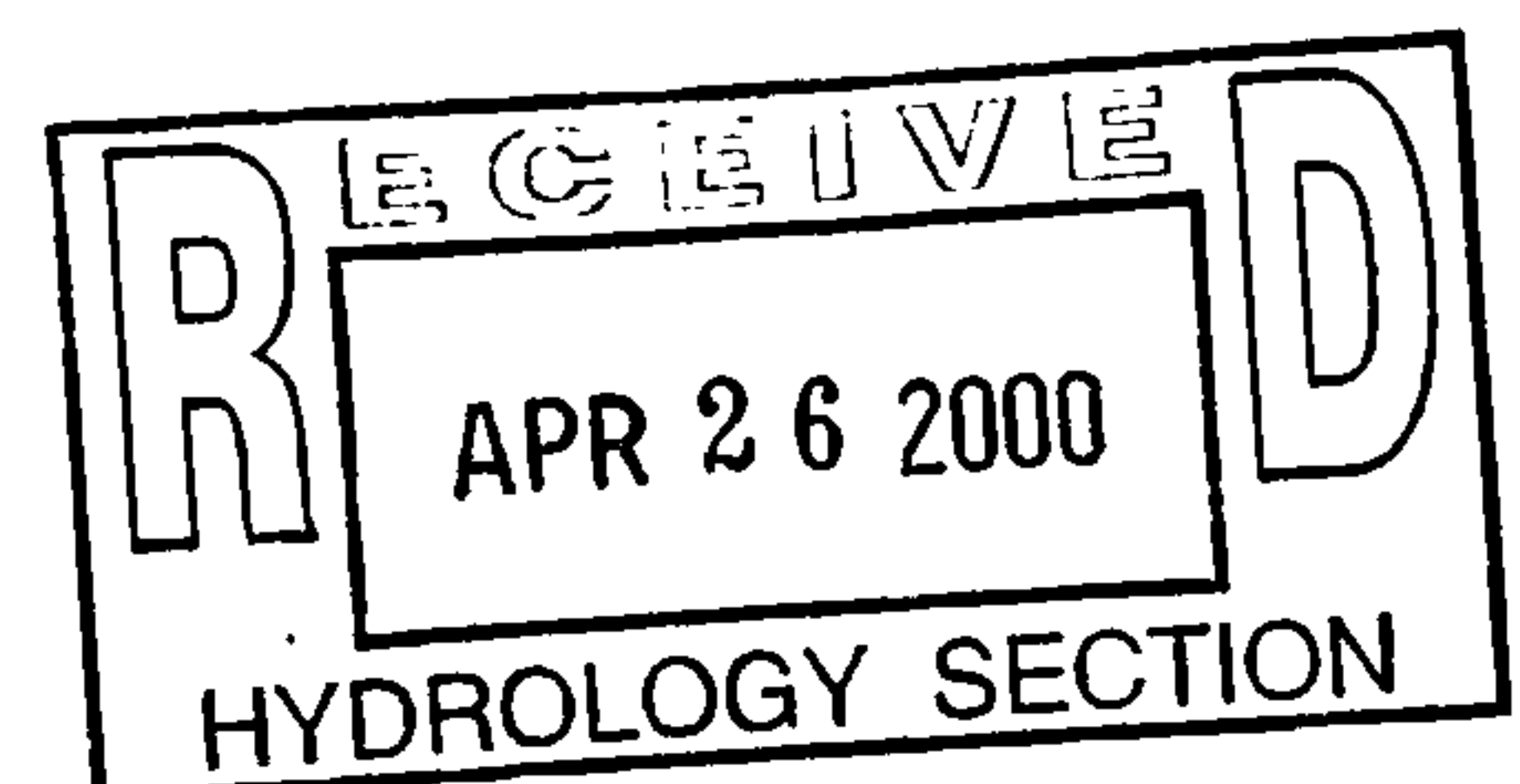
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☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ S.A.D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☒ OTHER S.O. 19 (SPECIFY)

PRE-DESIGN MEETING:

☐ YES
☒ NO
☐ COPY PROVIDED

DATE SUBMITTED: APRIL 26, 2000

BY: JACKIE S. MCDOWELL, P.E.



McDowell Engineering, Inc.

7820 Beverly Hills Ave. NE
Albuquerque, New Mexico 87122
Telephone: (505)828-2430 Fax: (505)821-4857

LETTER OF TRANSMITTAL

TO: STUART REEDER
COA.
HYDROLOGY

DATE: 4-26-00
PROJ. NO.: _____

RE: YDI FACILITY

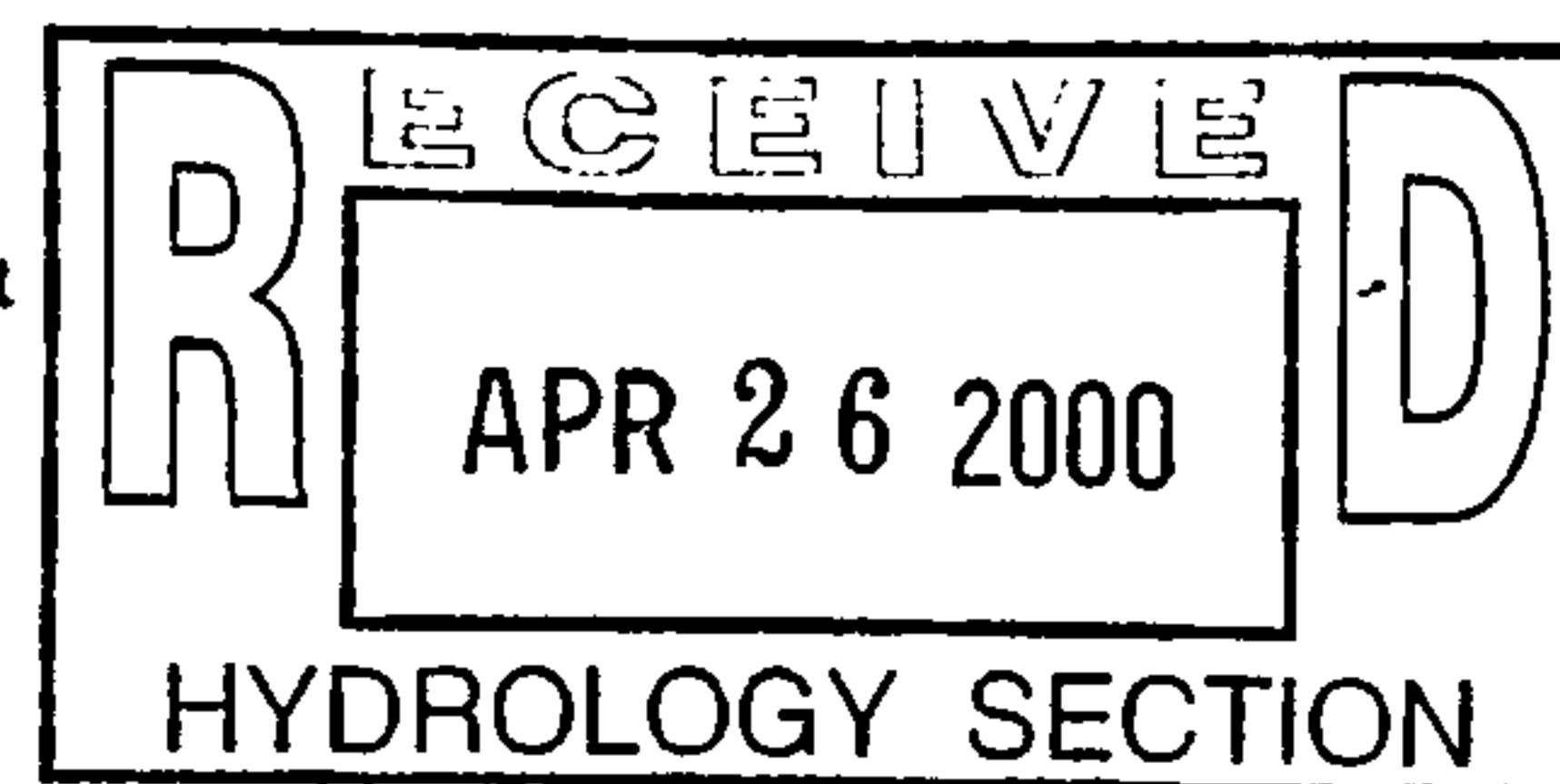
WE ARE SENDING YOU: ☒ Attached ☐ Under separate cover via delivery the following items:

COPIES	DATE	DESCRIPTION
1	4/26/00	Revised G & D Plan w/ Calcs.
1		Info. Sheet

THESE ARE TRANSMITTED as checked below:

☒ For approval ☐ For your use ☐ As requested ☐ For review and comment

☐ Other _____



REMARKS:

Title Block

YDI FAC.

Sig. Blk - Insp Only

Note 7 See Rev. 11/00

SIGNED: _____

Jackie S. McDowell, P.E.

McDowell Engineering, Inc.

Jackie Sedillo McDowell, P.E.
Civil Engineering Consultant

April 26, 2000

Mr. Stuart Reeder, P.E.
City of Albuquerque
Hydrology Division
P.O. Box 1293
Albuquerque, NM 87103

RE: YDI FACILITY (K-11/D062)

Dear Mr. Reeder:

In response to your letter dated March 1, 2000, we offer the following:

1. As shown by the plan, the site is currently developed with 2 existing building and drains to the south and east private properties.
2. Existing and proposed grades have been provided per the DPM standards.
3. The plan has been modified to have a retention pond that will discharge through the south property to Lucca Avenue. A drainage easement has been acquired and is attached.
4. The pond has been modified from a retention pond to a detention pond and will be drained via 3-4" PVC drain lined to Lucca Avenue.

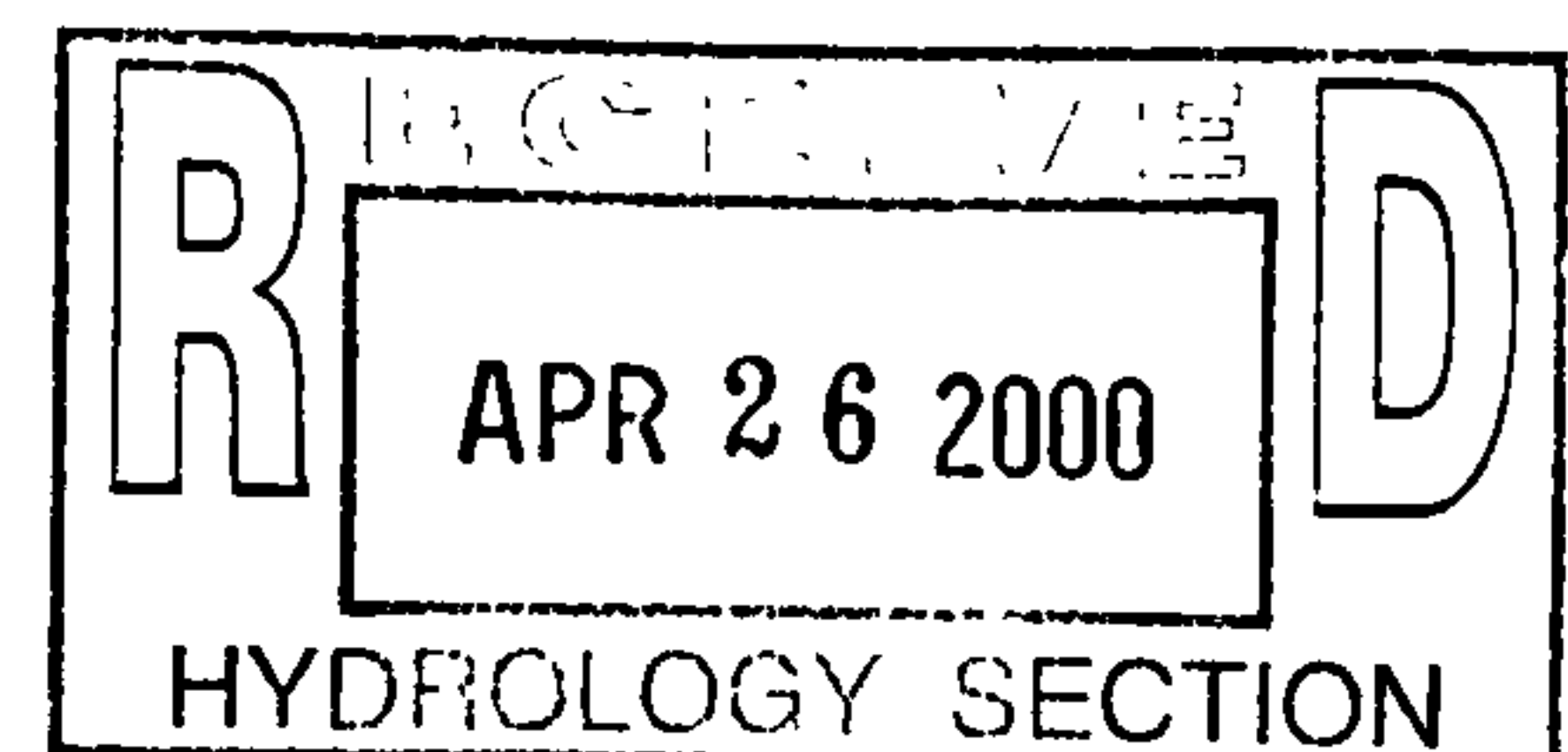
Your timely approval of this plan is appreciated.

Sincerely,

MCDOWELL ENGINEERING, INC.



Jackie S. McDowell, P.E.



Project: YDI ON-SITE CALCULATIONS

17-Feb-2000

Calculations: Total Basin

Calculations are based on "Section 22.2 Hydrology of the Development Process Manual, Volume 2, Design Criteria for the City of Albuquerque, New Mexico, January 1993 - basins < 40 acres".

Precipitation Zone = 1

Depth at 100-year, 6-hour storm: (Table A-2)

P = 2.20 inches

Land Treatments:

From Table 5 - Percent Treatment D

Single Family Residential =

$7 \times \text{SQR}((N \times N) + (5 \times N))$

where N = units/acre

N = ----- = -----, ok < 6

N = 0.00

Therefore Percent Treatment D = 0.00%

(includes local streets)

Areas: (acres)	Existing	Proposed
Treatment A	0.00	0.00
Treatment B	0.00	0.05
Treatment C	0.32	0.14
Treatment D	0.14	0.27
Total (acres) =	0.46	0.46

Volume	100 year Existing	100 year Proposed	10 year Existing	10 year Proposed	2 year Existing	2 year Proposed
Volume (acre-feet) =	0.05	0.06	0.03	0.03	0.01	0.02
Volume (cubic feet) =	2,151	2,556	1,141	1,479	505	768

~~POND VOLUME REQ'D = $(2,556 - 2,151) \times 2 = 810$ cu ft.~~ Rev. 4-22-00

Total Q(p), cfs:	100 year Existing Q(p)*A	100 year Proposed Q(p)*A	10 year Existing Q(p)*A	10 year Proposed Q(p)*A	2 year Existing Q(p)*A	2 year Proposed Q(p)*A
Treatment A	0.00	0.00	0.00	0.00	0.00	0.00
Treatment B	0.00	0.10	0.00	0.04	0.00	0.00
Treatment C	0.92	0.40	0.48	0.21	0.15	0.07
Treatment D	0.61	1.18	0.40	0.78	0.24	0.46
Total Q (cfs) =	1.53	1.68	0.88	1.03	0.39	0.52

: Project: YDI ON-SITE CALCULATIONS

23-Apr-2000
Calculations: Total Basin

Calculations are based on "Section 22.2 Hydrology of the Development Process Manual, Volume 2, Design Criteria for the City of Albuquerque, New Mexico, January 1993 - basins < 40 acres".

Precipitation Zone = 1
Depth at 100-year, 6-hour storm: (Table A-2)

P = 2.20 inches

Land Treatments:
From Table 5 - Percent Treatment D
Single Family Residential =
 $7 \times \text{SQR}((N \times N) + (5 \times N))$
where N = units/acre
N = ----- = -----, ok < 6
Therefore Percent Treatment D = 0.00%
(includes local streets)

N = 0.00

Areas: (acres)	Existing	Proposed
Treatment A	0.00	0.00
Treatment B	0.00	0.05
Treatment C	0.32	0.14
Treatment D	0.14	0.27
Total (acres) =	0.46	0.46

Excess Precipitation (E): (Table A-8)	100 yr	10 yr	2 yr
Treatment A	0.44	0.08	0.00
Treatment B	0.67	0.22	0.01
Treatment C	0.99	0.44	0.12
Treatment D	1.97	1.24	0.72

Weighted E:	100 year Existing E*A	100 year Proposed E*A	10 year Existing E*A	10 year Proposed E*A	2 year Existing E*A	2 year Proposed E*A
Treatment A	0.00	0.00	0.00	0.00	0.00	0.00
Treatment B	0.00	0.03	0.00	0.01	0.00	0.00
Treatment C	0.32	0.14	0.14	0.06	0.04	0.02
Treatment D	0.28	0.53	0.17	0.33	0.10	0.19
Total	0.59	0.70	0.31	0.41	0.14	0.21

Project: YDI ON-SITE CALCULATIONS

Weighted E = Total E*A/Total Area

Total Area = 0.46

	100 year Existing	100 year Proposed	10 year Existing	10 year Proposed	2 year Existing	2 year Proposed
Weighted E (inches) =	1.29	1.53	0.68	0.89	0.30	0.46
Weighted E (feet) =	0.11	0.13	0.06	0.07	0.03	0.04

Volume = Weighted E * Watershed Area:

	100 year Existing	100 year Proposed	10 year Existing	10 year Proposed	2 year Existing	2 year Proposed
Volume (acre-feet) =	0.05	0.06	0.03	0.03	0.01	0.02
Volume (cubic feet) =	2,151	2,556	1,141	1,479	505	768

Peak Discharge (cfs/acre) = Q(p): (Table A-9)	Q(p) 100 year	Q(p) 10 year	Q(p) 2 year
Treatment A	1.29	0.24	0.00
Treatment B	2.03	0.76	0.03
Treatment C	2.87	1.49	0.47
Treatment D	4.37	2.89	1.69

Total Q(p), cfs:	100 year Existing Q(p)*A	100 year Proposed Q(p)*A	10 year Existing Q(p)*A	10 year Proposed Q(p)*A	2 year Existing Q(p)*A	2 year Proposed Q(p)*A
Treatment A	0.00	0.00	0.00	0.00	0.00	0.00
Treatment B	0.00	0.10	0.00	0.04	0.00	0.00
Treatment C	0.92	0.40	0.48	0.21	0.15	0.07
Treatment D	0.61	1.18	0.40	0.78	0.24	0.46
Total Q (cfs) =	1.53	1.68	0.88	1.03	0.39	0.52

RATIONAL METHOD:

Coefficient C: (Table A-11)	100 year	10 year	2 year
Treatment A	0.27	0.08	0.00
Treatment B	0.43	0.24	0.02
Treatment C	0.61	0.47	0.26
Treatment D	0.93	0.92	0.92
Peak Intensity (in/hour): (Table A-10)	4.70	3.14	1.84

Q = CIA (cfs):	100 year Existing CIA	100 year Proposed CIA	10 year Existing CIA	10 year Proposed CIA	2 year Existing CIA	2 year Proposed CIA
Treatment A	0.00	0.00	0.00	0.00	0.00	0.00
Treatment B	0.00	0.10	0.00	0.04	0.00	0.00
Treatment C	0.92	0.40	0.47	0.21	0.15	0.07
Treatment D	0.61	1.18	0.40	0.78	0.24	0.46
Total Q (cfs) =	1.53	1.68	0.88	1.02	0.39	0.53

McDowell Engineering Inc.

7820 Beverly Hills Ave. NE
Albuquerque, New Mexico 87122
Tele: (505)828-2430
Fax: (505)821-4857

Project: YDI
Project No.: YDI 0100L Date: 4-22-00
Subject: CULVERT (ORIFICE) CALC S
By: DSM Sheet 1 of 1

ORIFICE EQ'N:

$$Q = CA \sqrt{2gh}$$

Where $C = 0.6$

$$g = 32.2$$

$$h = 1$$

4" PIPE PER COA STD DWG # 2235

$$A_{4"} = 0.0873 \text{ ft}^2$$

$$Q = 0.6(0.0873) \sqrt{2(32.2)(1)}$$
$$= 0.42 \text{ cfs}$$

Use 3-4" pipes $Q_{\text{out}} = 1.26 \text{ cfs}$

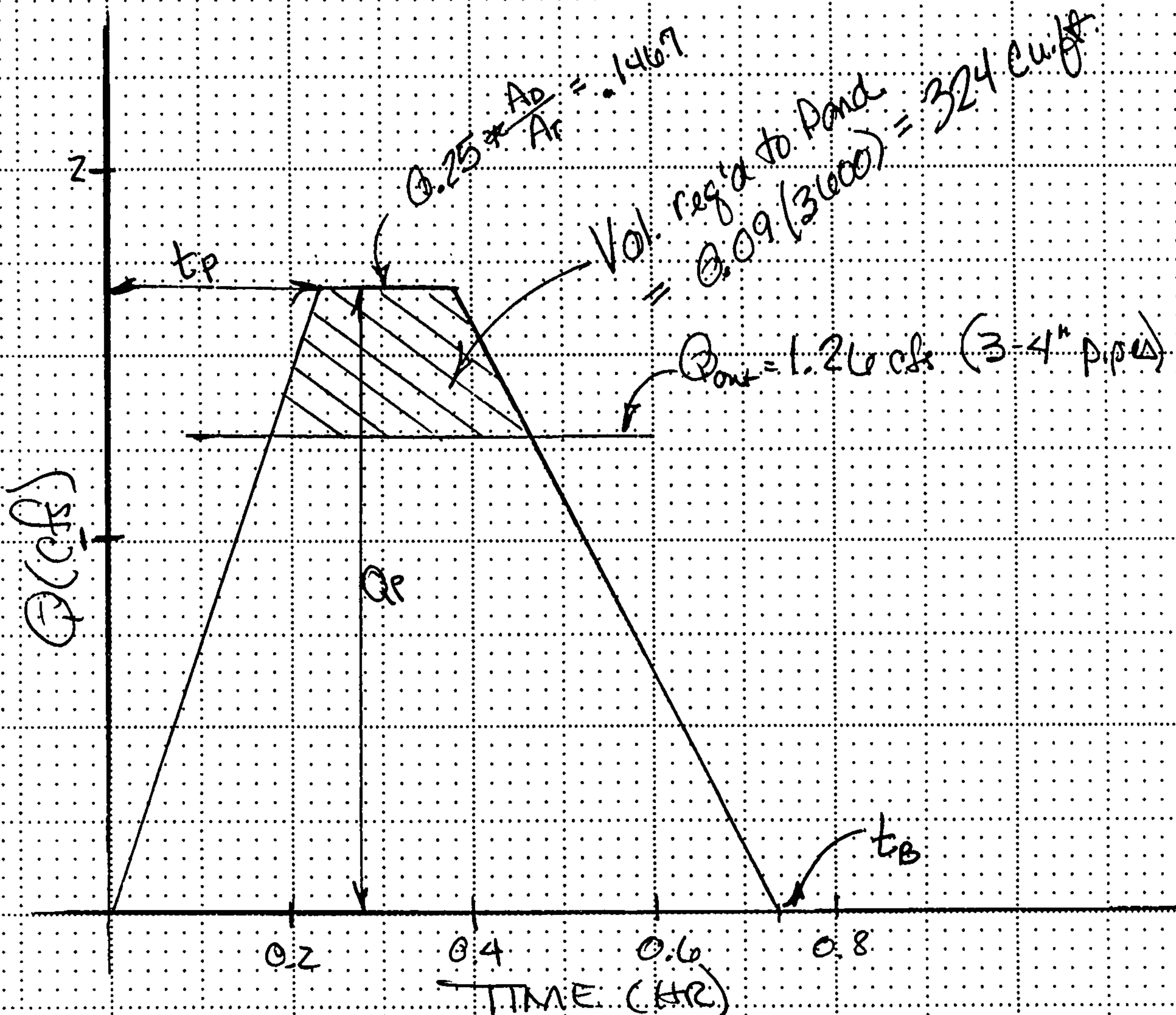
$$Q_{\text{exist}} = 1.53 \text{ cfs}$$

OK ✓

McDowell Engineering Inc.

7820 Beverly Hills Ave. NE
Albuquerque, New Mexico 87122
Tele: (505)828-2430
Fax: (505)821-4857

Project: VDI
Project No.: VDI 0100L Date: 4-22-00
Subject: HYDROGRAPH W/CALCS
By: JSM Sheet 1 of 1



$$t_c = 0.2 \text{ hr} ; A_D = 0.27 \text{ ac} ; A_T = 0.416 \text{ ac} ;$$

$$E = 1.53 \text{ inches} ; Q_p = 1.68 \text{ cfs} ;$$

$$t_p = 0.7 * t_c + (1.4 - \frac{A_D}{A_T}) / 12 = 0.2244 \text{ hr}$$

$$t = 0.25 * \frac{A_D}{A_T} = 0.1467$$

$$t_B = 2.107 * E * \frac{A_T}{Q_p} - 0.25 * \frac{A_D}{A_T} = 0.7360 \text{ hr}$$

McDowell Engineering Inc.

7820 Beverly Hills Ave. NE
Albuquerque, New Mexico 87122
Tele: (505)828-2430
Fax: (505)821-4857

Project: YDI
Project No.: YDI0100L Date: 4-23-00
Subject: POND VOL. CALCS.
By: JSR Sheet 1 of 1

DETENTION POND VOL:

ELEV.	AREA(SF)	VOL(CF)
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71.5	0	81
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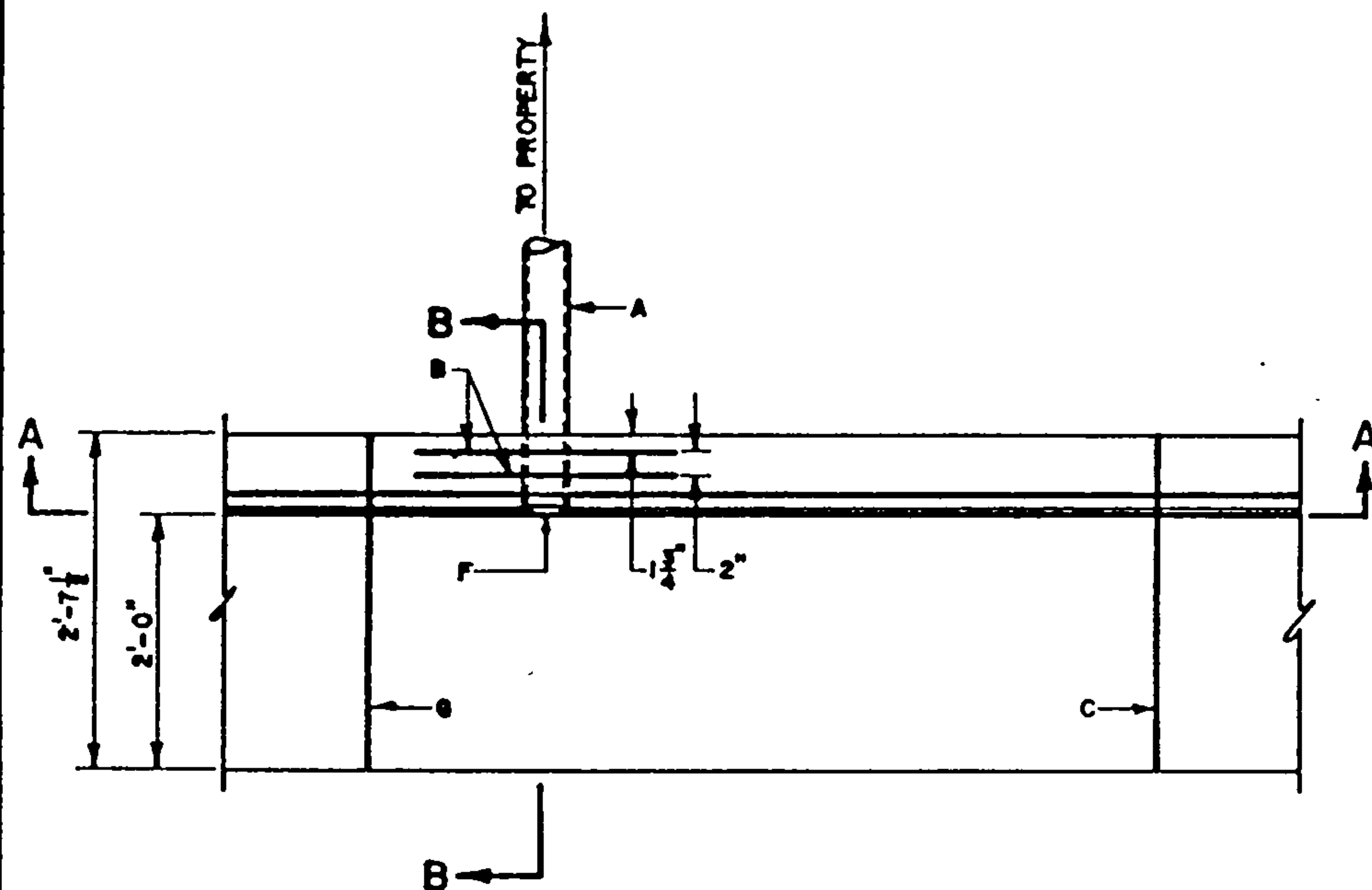
72.0	325	272
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72.5	762	
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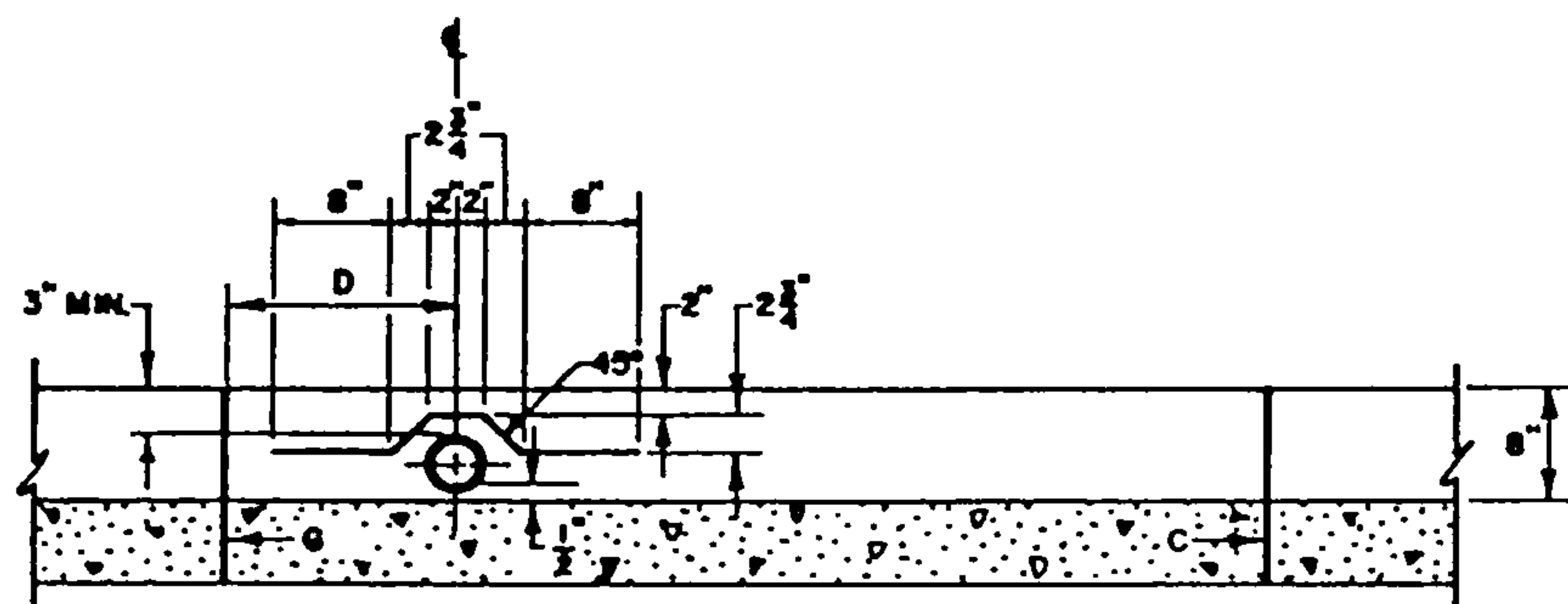
TOTAL		352 CF. (PROVIDED)
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REQUIRED

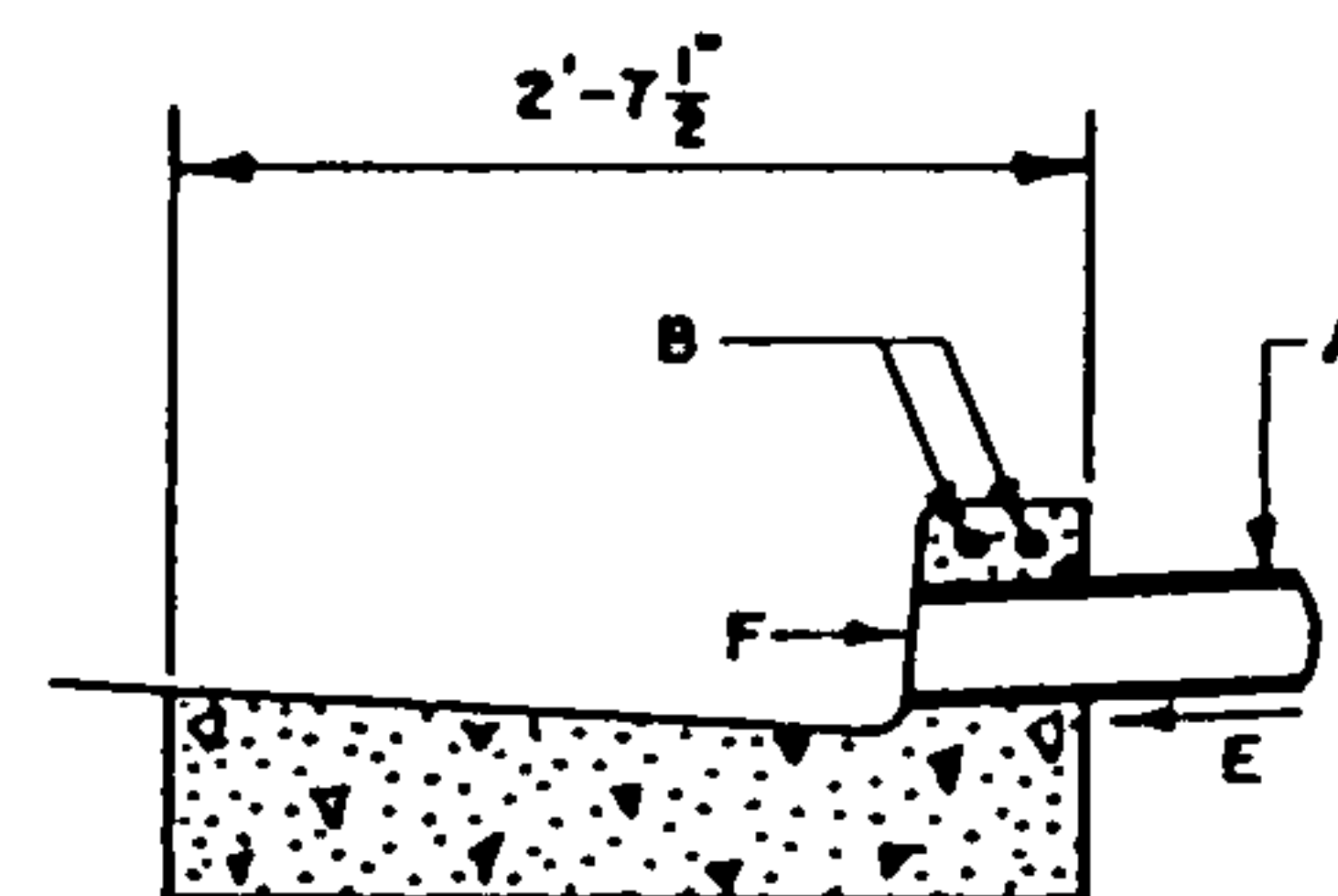
~~PROVIDED~~ = 324 CF. ✓ OK



PLAN



SECTION A-A



SECTION B-B

GENERAL NOTES:

1. WHEN PLACING DRAIN THROUGH EXISTING CURB, REMOVE AND REPLACE ENTIRE STONE OF CURB AND GUTTER.
2. THE CITY DOES NOT ACCEPT RESPONSIBILITY FOR MAINTENANCE FOR ANY DRAIN LINES INSTALLED BY OR FOR PRIVATE PROPERTY OWNERS.

CONSTRUCTION NOTES:

- A. DRAIN, D.I. OR SCH. 40 P.V.C. PIPE, 4" NOM. SIZE (MAX.) TO PROPERTY.
- B. 2-NO. 3 BARS, 2'-4" LONG, PLACED AS SHOWN.
- C. COLD JOINT.
- D. DISTANCE FROM ϵ OF DRAIN TO NEAREST JOINT, VARIABLE WITH 16" MIN.
- E. SLOPE $\frac{1}{4}$ PER FT. WITHIN R.O.W.
- F. DRAIN PIPE NOT TO PROTRUDE BEYOND CURB FACE.
- G. JOINT NEAREST TO DRAIN TO BE AN EXPANSION JOINT.

CITY OF ALBUQUERQUE	
DRAINAGE	
DRAIN LINE THROUGH CURB	
DWG. 2235	
AUG 1986	
REVISIONS	

April 4th, 2000

City of Albuquerque

RE: 6306 Central / 6305 Lucca SW.
6: PCV Drainage Pipe

The purpose of this Correspondence is to grant Youth Developent, Inc. 6306 Central SW, approval to install 6" pipe underground through my adjoining location at 6305 Lucca SW, as per attached diagram.

If you have any questions, Please do not hesitate to contact me.

Respectfully,

Name Jose Cisneros

Date 4-4-00

LUCCA SW.

OUTLET
TO STREET

6305 LUCCA
SW

EXISTING
HOUSE

↑
6 inch
PVC DRAIN
PIPE

POND

EXISTING
BUILDING

NEW
ADDITION
OFFICES

EXISTING
BUILDING

6306 Central
SW



City of Albuquerque

***Public Works Department
Transportation Development Services Section***

May 11, 2000

Willie Carrillo, Architect,
Carrillo/Simons Architects,
6801 Jefferson N.E.
Albuquerque, New Mexico 87109

Re: T.C.L. submittal for building permit approval for Y.D.I. Facility, 6306 Central N.E.,
Yucca Addition No.1, Lot No. 3. [K16/D062], No Site Plan with Architect/Engineer stamp.
//

Dear Mr. Carrillo,

The location referenced above, is not acceptable and requires the Traffic Circulation Layout (T.C.L.). Modification of TCL is needed prior to Building Permit release as stated on the attached written comments and red-lined T.C.L. markup.

Please resubmit revised T.C.L. after addressing typed and marked up comments.
Submit Plan along with typed comments and all red-lined, mark-up copies.

Sincerely,

Mike Zamora,
Commercial Plan Checker

cc:
Engineer
Hydrology File
Office File

Written Comments: File # K-11/D062
5/04/2000

- A separate TCL Plan (Site Plan) must be submitted, to Engineer's scale, instead of Drainage Plan.
- Call out name of subdivision and lot number or tract number on Site Plan.
- Place a note on the plan stating the following:

"An as-built copy of the approved TCL must be submitted by the designer-of-record, as required by Transportation Development, including a letter of certification that the site has been constructed in accordance with the TCL. Verification of TCL acceptability and possible random field verification will be made before a Final Certificate of Occupancy is issued." Please call this office to obtain temporary C.O.
- Contractor selected must be made aware, by note on Site Plan, that any agreement with the owner, stating that any portions of permit construction, chosen to be completed by the owner, or his selected representative, other than that contractor, will most likely result in delay. Therefore, if this applies, Certificate of Occupancy will not be issued **until all work is finished.**
- The responsibility for errors on the site plan and subsequent unauthorized field changes must be specified on the Site Plan, in bold type, as follows:

"The responsible Party must rectify all unapproved construction resulting from errors on the approved Site Plan." and
"This Site Plan has been approved and accepted by all parties. Any field changes not accepted by Traffic Engineer, after approval for building permit, will result in:
(1) Untimely delay of certification for final Certificate of Occupancy in order to correct unapproved work, and
(2) increase in construction cost to responsible parties."
- Use of D.P.M. can aid in production of T.C.L. requiring fewer corrections to original and more expedient Traffic Engin. review time. Package included is copy of portions of Chapter 23, taken from the D.P.M. Keep in office library, to be used for all forthcoming work.
- - - Dimension new or existing stalls - label "typical" or call out in individual locations, if not typical.
- 6" high concrete curb, per city standard, must be constructed per DPM, Section 23.7 B6. Must prevent overhanging a property line into adjacent property, pedestrian path and to separate landscape areas from parking. Label concrete curb, and type (or show detail labelled "typical"), at each individual location or call out double-line style (or equivalent) linework, used to designate curbing, as "typical". If extruded concrete is used, top of surface of landscape mulching (gravel, bark, etc.) must be level with, or up to 1" below top of curb.
- Minim. 5' wide concrete sidewalk, raised 6" above parking surface, needed when located at the front of parking vehicles wherever pedestrian access is desired or required or adjacent to any building.
- Because of the preliminary nature of the new review process, if Zoning has not seen this layout prior to this review, any requirements by Zoning at time of their review, altering the parking layout, will void approval of T.C.L. and new review will be needed.
- New and existing elements noted on the T.C.L. must be shown, labelled, and dimensioned correctly and accurately, this includes street curb & gutter, site sidewalks, all drive aisles, driveways [call out conc. or asph.], walls & fences (including height of fence at driveway, if applicable) & gates, parking stalls (including H.C.), landscaping (if on separate landscape plan, submit plan), concrete wheel stops, all curbing, refuse enclosure, any neighboring driveways, if close to property lines shared with the adjacent lots. Need to see clear differentiation between new construction and existing on TCL (or provide demolition plan). Please enlarge small type to more readable size. To accommodate the information mentioned before you may want to enlarge the scale of the TCL if no demo plan is selected.
- - - The two existing driveways must be removed and replaced with 6' wide sidewalk with back of sidewalk at right-of-way (property line). Driveway will need improvement per D.P.M. (Section 23.6B4 [minim. closeness to prop. line], -23.6B.4a [maxim. no. of drives], -23.6B8a [driveways - widths]) and City of Albuquerque Stand. Detail Drwg. No. 2426. The curb cut must be constructed to 40 feet wide with 25' radius curb return type driveway, for Refuse access. Approval from Fire Marshall's office is required regarding access of vehicle into site.
- - - The parking area at front needs to be revised as shown to provide acceptable, safe traffic circulation.

Written Comments: File # C-16 / D006A
3/02/2000

- All the area which is to be used by any vehicles must be paved, call out asphalt area. _Label asphalt and thickness of parking surface per city std. or refer to a detail which illustrates the proposed method of paving and states it's equivalency to standard asphalt surfacing.
- Call out striping of lot.
- Gates must be 25' minim. width, (unobstructed). Clarify the gate width dimension.
- All Civil Sheets (Drainage Plan and detail sheets and T.C.L. & detail sheets) must be together at front of plan set.
- Linework on Drainage Plan and Landscape Plan must match T.C.L. exactly. _Per DPM,23.6B.11a, drive apron grade max. is 6% for curb return drives. _Maximum 8% slope along vehicle route on parking lot surface needed. Design grades are usually illustrated by using contours. If this is not done, or slope percentages, along with arrows, are not used on Drainage Plan,labelling of slope percentage of all slopes of parking lot, on T.C.L., will speed up review time. _This office recommends that as much information as possible that is pertinent to it's requirements be placed on T.C.L. and not Drainage Plan. Any site revisions required by Transportation that would be made on Drainage Plan cannot be marked up on Drainage Plan per Hydrology's preference, such as curbs, ramps, drivepads, dimensions, labels, etc.
- For future reference, show full width of all streets on Site Plan, unless shown on Grading and Drainage Plan, to include: (1) median and opening, if it exists (including any left turn lanes into this site). Without medians show traffic lanes up to and including middle turn lane. (2)all existing/new standard curb and gutter.

DRAINAGE INFORMATION SHEET

PROJECT TITLE: YDI FACILITY ZONE ATLAS/DRNG. FILE #: K-11 / 15062
DRB #: _____ EPC #: _____ WORK ORDER #: _____
LEGAL DESCRIPTION: LOT #3, YUCCA ADDITION NO. 1
CITY ADDRESS: 6306 WEST CENTRAL AVE.
ENGINEERING FIRM: MCDOWELL ENGINEERING, INC. CONTACT: JACKIE MCDOWELL
ADDRESS: 7820 BEVERLY HILLS AVE. NE, 87122 PHONE: 828-2430
OWNER: RUDY CHAVEZ CONTACT: RUDY CHAVEZ
ADDRESS: 6301 CENTRAL AVE. NW PHONE: 831-6038
ARCHITECT: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
SURVEYOR: MARQUEZ SURVEYING COMPANY CONTACT: GEORGE MARQUEZ
ADDRESS: 902 FIFTH STREET PHONE: 876-2684
CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

CHECK TYPE OF APPROVAL SOUGHT:

☐ DRAINAGE REPORT
☒ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAIN. PLAN
☒ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION
☐ OTHER _____

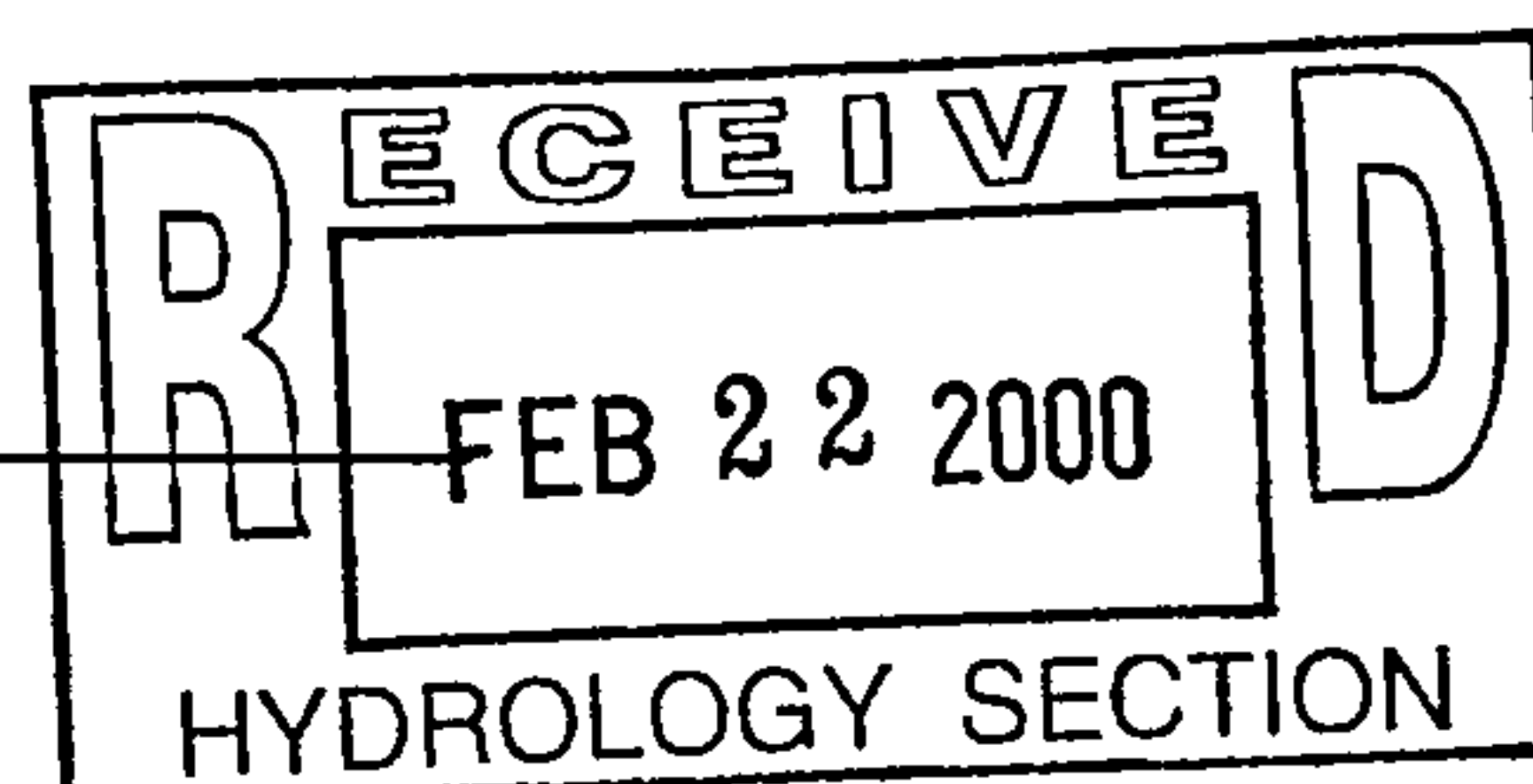
☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ S.DEV PLAN FOR SUB'D APPROVAL
☐ S.DEV PLAN FOR BLDG PMT APPR.
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☒ FOUNDATION PERMIT APPROVAL
☒ BUILDING PERMIT APPROVAL
☐ CERT. OF OCCUPANCY APPROVAL
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ S.A.D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☐ OTHER _____ (SPECIFY)

PRE-DESIGN MEETING:

☐ YES
☒ NO
☐ COPY PROVIDED

DATE SUBMITTED: FEBRUARY 18, 2000

BY: JACKIE S. MCDOWELL, P.E.



McDowell Engineering, Inc.

7820 Beverly Hills Ave. NE
Albuquerque, New Mexico 87122
Telephone: (505)828-2430 Fax: (505)821-4857

LETTER OF TRANSMITTAL

TO: City of Albuquerque P.W.D.
Hydrology Dept.
Prayer at Sea.

DATE: 2-18-00
PROJ. NO.: _____

RE: YDI FACILITY

WE ARE SENDING YOU: ☒ Attached ☐ Under separate cover via delivery the following items:

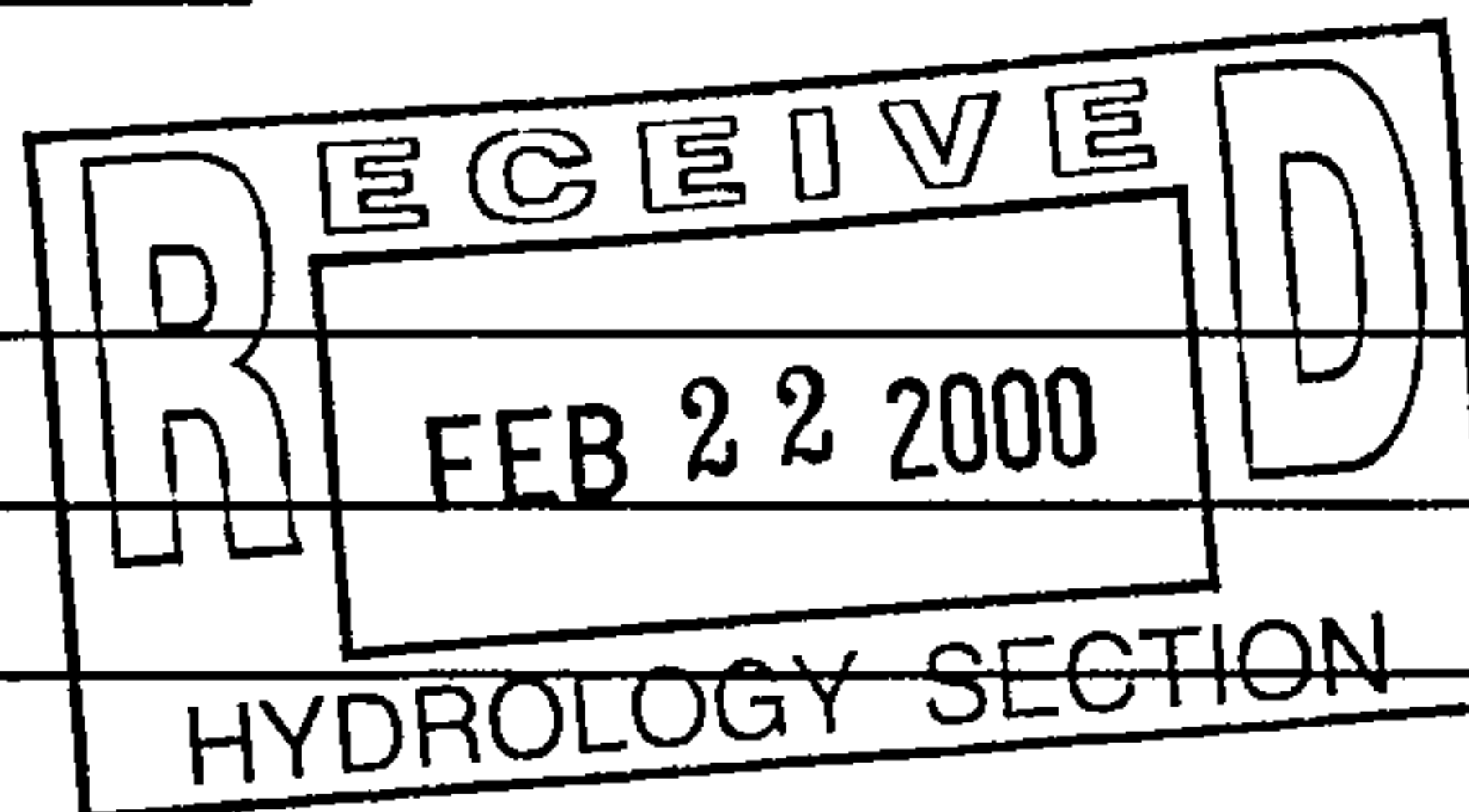
COPIES	DATE	DESCRIPTION
1		Grading & Drainage Plan
1		Calculation
1		Drainage Info. Sheet.

THESE ARE TRANSMITTED as checked below:

☒ For approval ☐ For your use ☐ As requested ☐ For review and comment

☐ Other _____

REMARKS:



COPY TO: file

SIGNED: [Signature]
Jackie S. McDowell, P.E.

Project: YDI ON-SITE CALCULATIONS

17-Feb-2000

Calculations: Total Basin

Calculations are based on "Section 22.2 Hydrology of the Development Process Manual, Volume 2, Design Criteria for the City of Albuquerque, New Mexico, January 1993 - basins < 40 acres".

Precipitation Zone = 1

Depth at 100-year, 6-hour storm: (Table A-2)

P = 2.20 inches

Land Treatments:

From Table 5 - Percent Treatment D

Single Family Residential =

$$7 \cdot \text{SQR}((N \cdot N) + (5 \cdot N))$$

where N = units/acre

N = ----- = -----, ok < 6

N = 0.00

Therefore Percent Treatment D = 0.00%

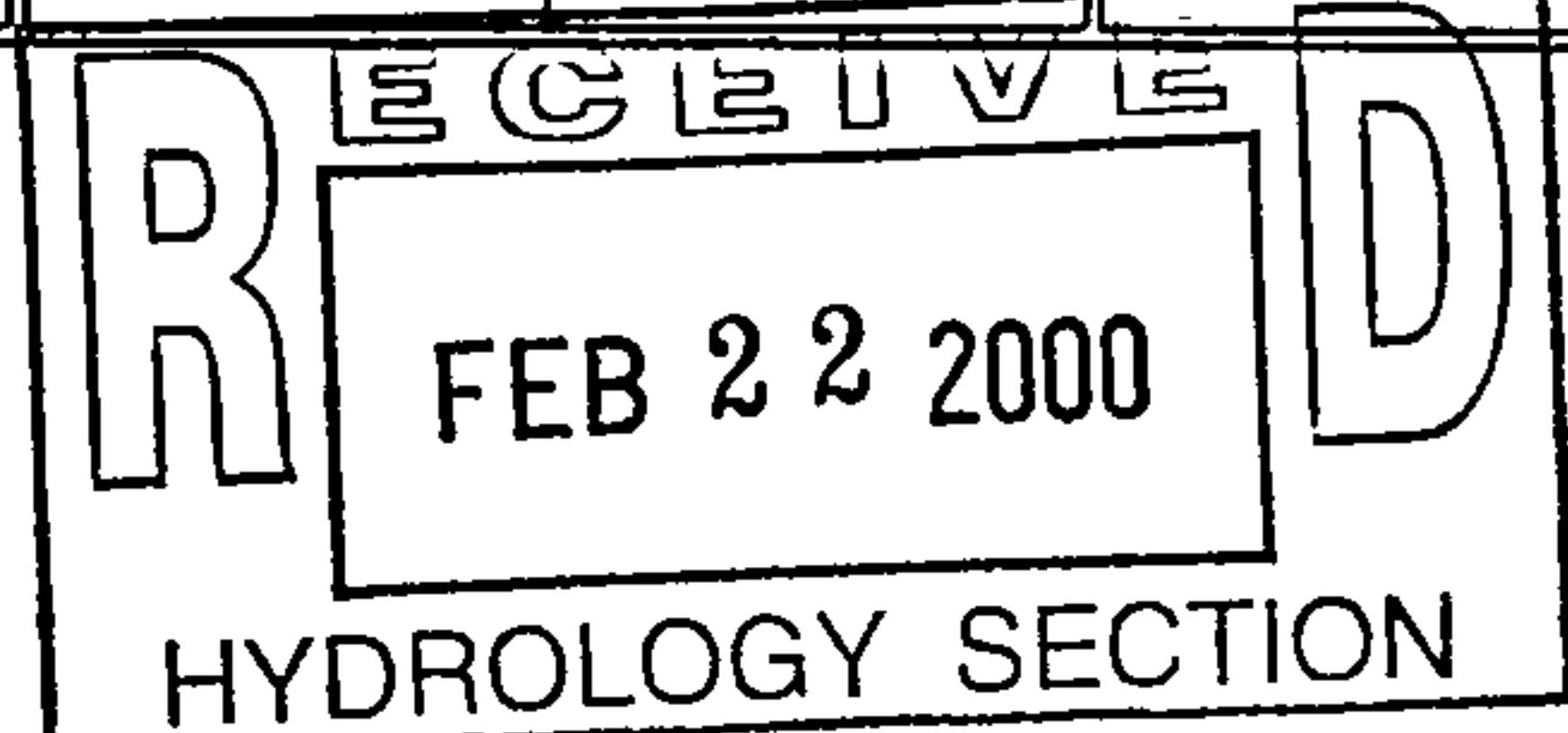
(includes local streets)

Areas: (acres)	Existing	Proposed
Treatment A	0.00	0.00
Treatment B	0.00	0.05
Treatment C	0.32	0.14
Treatment D	0.14	0.27
Total (acres) =	0.46	0.46

Volume	100 year Existing	100 year Proposed	10 year Existing	10 year Proposed	2 year Existing	2 year Proposed
Volume (acre-feet) =	0.05	0.06	0.03	0.03	0.01	0.02
Volume (cubic feet) =	2,151	2,556	1,141	1,479	505	768

POND VOL. REQ'D = $(2556 - 2151) \times 2 = 810 \text{ cu. ft.}$

Total Q(p), cfs:	100 year Existing Q(p)*A	100 year Proposed Q(p)*A	10 year Existing Q(p)*A	10 year Proposed Q(p)*A	2 year Existing Q(p)*A	2 year Proposed Q(p)*A
Treatment A	0.00	0.00	0.00	0.00	0.00	0.00
Treatment B	0.00	0.10	0.00	0.04	0.00	0.00
Treatment C	0.92	0.40	0.48	0.21	0.15	0.07
Treatment D	0.61	1.18	0.40	0.78	0.24	0.46
Total Q (cfs) =	1.53	1.68	0.88	1.03	0.39	0.52



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Albuquerque, New Mexico 87122
Tele: (505)828-2430
Fax: (505)821-4857

Project: YDI
Project No.: YDI 0100L Date: 2-17-00
Subject: POND VOL. CALCS.
By: JEM Sheet 1 of 1

RETENTION POND VOL. CALCS.

<u>ELEV(FT)</u>	<u>AREA(SF)</u>	<u>VOL(CF)</u>
-----------------	-----------------	----------------

5074

750

> 1'

750

5073

750

> 0.5'

250

5072.5

251

TOTAL = 1000 cu.ft.

OK

Regd Vol = 810 cu.ft.

