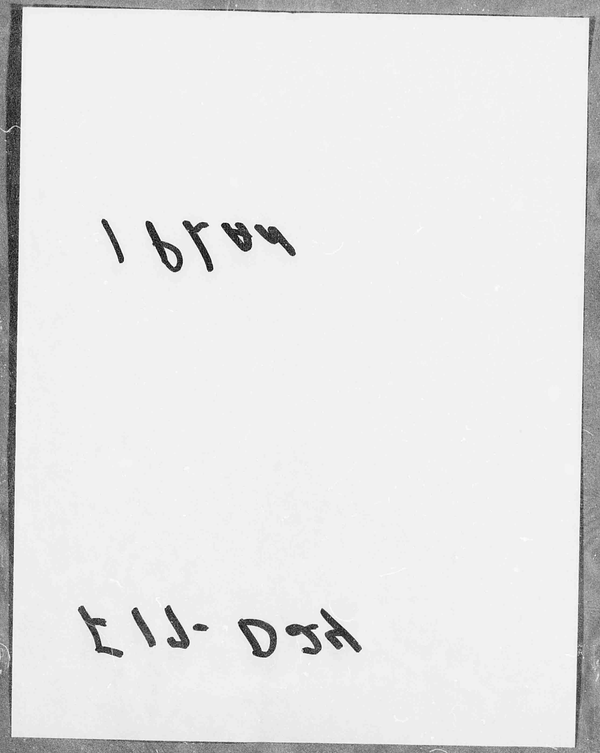

JA

SHEET NO: 01 OF 10

DATE: 18 JUNE 81

JOB NO: 81-11-C

ADDITION TO FRIEDMAN WAREHOUSE

2804 & 2806 PAN AMERICAN FREEWAY NE

DARA BUILT PRODUCTS, INC.
GENERAL CONTRACTORS LICENSE NO. 3044
4808 JEFFERSON NE PH 883-8100 ALBUQUERQUE NM 87109

2804 & 2806 PAN AMERICAN FWY NE

GRADING & DRAINAGE PLAN

SCALE: 1" = 30'

REVISED: JUNE 1981: ESTABLISHED PERMANENT BENCH MARK
PLOTTED EXISTING & PROPOSED CONTOURS
PLOTTED EXISTING & PROPOSED SANITARY SEWER & MANHOLE
EXISTING EDGE OF PAVEMENT

PROPOSED CONTOURS

EXISTING CONTOURS

CURBS OR CURB EXCAVATION

EXISTING STRUCTURE

FINISH FLOOR IS EXISTING SLAB

CONSTRUCTION ENTRANCE

EXISTING CURB, GUTTER & DRIVE

LINCOLN ROAD NE

EAST FRONTAGE ROAD

PAN AMERICAN NE

EXISTING 8" SEWER

EXISTING 12" SEWER

EXISTING 24" SEWER

EXISTING 30" SEWER

EXISTING 36" SEWER

EXISTING 42" SEWER

EXISTING 48" SEWER

EXISTING 54" SEWER

EXISTING 60" SEWER

EXISTING 72" SEWER

EXISTING 84" SEWER

EXISTING 96" SEWER

EXISTING 108" SEWER

EXISTING 120" SEWER

EXISTING 132" SEWER

EXISTING 144" SEWER

EXISTING 156" SEWER

EXISTING 168" SEWER

EXISTING 180" SEWER

EXISTING 192" SEWER

EXISTING 204" SEWER

EXISTING

PUBLIC WORKS/HYDROLOGY

F17/D24

DRAINAGE PLAN
FRIEDMAN PROPERTY

PROJECT SITE

F-17-Z

SCALE 1:40'

N

(1) Plan needs legend
(2) Need permission from NMSHTD
(3) Need more detail
a) Show all existing and proposed improvements
b) Show type construction and details where grading are above fences & Walls
c) Show finish floor elevation
d) Show direction of flow arrows
(4) Need permission to fill (encroachment) on adjacent property
(5) Show how proposed grades ties in with grades proposed by Town Center
(6) There are many discrepancies in Reports
a) Show point of beginning calculations and show detail on plan to follow
b) Manning's Equation ~~Velocity~~ is not sufficient to predict flow through pipe - Consider using Energy Method
(7) Need Info Sheet 1
(8) TOM

EXISTING 36" RCP

SEE TOMMANN DRAINAGE REPORT DATED 1-84

Q = 18 CFS

PAN AMERICAN NE

LINCOLN ROAD NE

POWER & UNDERGND TELEPHONE

EXISTING 18" RCP

EXISTING 24" RCP

EXISTING 30" RCP

EXISTING FF ELEV = 5133.31

EXISTING FF ELEV = 5131.7

AREA A CONTRIBUTING 7.78 ACRES

AREA B NON CONTRIBUTING 2.27 ACRES

LANDING DOCK

How do floors drain? Proposed grades for Encroachment Project?

Need permission to fill on adjacent property

RECEIVED FEB 19 1914 HYDROLOGY SECTION

Academy Engineering, Inc.
5353 Wyoming Blvd. N.E., Suite 3
Albuquerque, New Mexico 87109
(505) 881-8008

R# 25 DATE 3-19-82 OP LDP

CITY OF ALBUQUERQUE

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DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/27/85

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PLANS/PLATS ON FILE

FILE DESC: F17/D24

PLANS/PLATS 13

E30 D24 C20 B16 A12

CITY OF ALBUQUERQUE C D F

GRADING AND DRAINAGE PLAN

BELEN, NMBM
CITY BM J-25-17
ELEV 5171.1
ON SITE TBM
5108.7
HS BOLT SET AT FACE OF FIRE HYDRANT
AT N.W. CORNER OF PROPERTY

REFER TO F-17 D&B DRAINAGE PLAN

REFER TO F-17 D&B DRAINAGE PLAN

PAN AMERICAN RD NE
(FRONTAGE RD.)

BUILDING PHASE 1
UNIT "A" UNIT "B" UNIT "C" UNIT "D"
FINISHED FLOOR
5128.50
F.F.

PHASE 2
FUTURE BLDG
FF?

PHASE 3
FUTURE BLDG
FF?

EXIST. BLDG
FINISH FLOOR 7170 & 71.40

PROPOSED PAVED BY OTHERS

FUTURE BUILDING PADS (BY OTHERS)

POND NO. 4
10,150 cf
5190

POND NO. 2
V= 3,130 cf
5190

POND NO. 1
V= 3,201 cf
INLET GRATE ELEV. 80.8
INV. 79.5

EXISTING BLDG
FINISHED FLOOR 71.11

EXISTING BLDG
FINISHED FLOOR 81.31

EXISTING BLDG
FINISHED FLOOR 91.70

EXISTING ASPHALT

NON-CONTRIBUTING AREA

NON-CONTRIBUTING AREA

LINCOLN ROAD N.E.

N89°56'E 892.82'

N89°56'W 922.18'

S00°04'W 925.04'

6' CURB

6' CURB

NEW ASPHALT SWALE

6" CURB

CHAIN LINK FENCE (6' ABOVE NEW)

2 STEEL CULVERT OFF-SITE FLOW 20 cfs

NO OFF-SITE FLOW

Field To See
Verify
If 4' R.C.
Constructed

TYP. SQUARE CATCH BASIN

SECTION A-A
NO SCALE

VICINITY MAP

LEGEND

EXISTING CONTOUR LINE 5195
DESIGNED CONTOUR LINE 90
DESIGNED CONTOUR LINE AT CURBS OR ADJACENT TO 80
SPOT ELEVATION (EXISTING) 79.5
DESIGNED SPOT ELEVATION 77.8
TC = TOP OF CURB
TA = TOP OF ASPHALT

SCALE 1" = 40'

F17-024B

Note To Survey Crew:
Need to determin size of pond (1)
Please measure Approx., as can be determined on site.
Need Top of ~~Retaining~~ Beam, Top of Grate Inv. also
Verify Size of Pipe.

DRAINAGE APPROVED FOR FOUNDATION ONLY
4/25/84
DATE
REGISTERED ENGINEER
TITLE

RECEIVED
APR 24 1984
HYDROLOGY SECTION

HALL ENGINEERING
2625 Pennsylvania Ave., N.E.
Suite 350
Albuquerque, New Mexico 87110

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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R# 25 DATE 3-19-02 OP KGP

CITY OF ALBUQUERQUE

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3/19/02
DIRECTOR

Roberta Duran
NOTARY PUBLIC

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Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/02/02

D24 C20 B16 A12 | CITY OF ALBUQERQUE C D

GRADING AND DRAINAGE PLAN

BENCH MARK
CITY BM 1-25-17
ELEV 5171.1
ON SITE TBM
5168.7
U/S BOLT OF FIRE HYDRANT
AT N.W. CORNER OF PROPERTY

PAN AMERICAN RD NE
(PRIVATE RD)

REFER TO F-17 D&G DRAINAGE PLAN

REFER TO F-17 D&G DRAINAGE PLAN

BUILDING PHASE 1
UNIT A | UNIT B | UNIT C | UNIT D
FINISHED FLOOR 5173.50

PHASE 2
FUTURE BLDG

PHASE 3
FUTURE BLDG

EXIST BLDG
FINISH FLOOR 78.50 TO 79.0

FUTURE BUILDING
(BY OTHERS)

POND NO. 1
VOL. X,XXX CF

POND NO. 2
VOL. X,XXX CF

POND NO. 3
VOL. X,XXX CF
INLET GRATE ELEV. 80.8
INV. 79.5

POND NO. 4
VOL. 10,191 CF

EXISTING BLDG
FINISHED FLOOR 81.31

EXISTING BLDG
FINISHED FLOOR 81.70

EXISTING BLDG
FINISHED FLOOR 78.11

NON-CONTRIBUTING AREA

NON-CONTRIBUTING AREA

N 89° 56' W
212.19'

925.04'

12" STEEL CULVERT
TO SITE FLOW TO D/S

CHAIN LINK FENCE (6' FROM R/W)

EXISTING BLDG
FINISH FLOOR 78.70

LINCOLN ROAD N.E.

Richard Hall
4/24/84

SCALE: 1" = 40'

1" = 1 FOOT
1" = 2 FEET

RIP RAP SPILL WAY

1/2 SQUARE OPEN PIPE

SECTION A-A

VICINITY MAP

LEGEND

EXISTING CONTOUR LINE — 5795
DESIGNED CONTOUR LINE — 90
FORMER CONTOUR LINE AS SHOWN ON CALCULATION OF SPOT ELEVATION (EXISTING) — 90
DESIGNED SPOT ELEVATION
TC = TOP OF CURB
BC = TOP OF ASPHALT

F17-024B

Note To Survey Crew:
Need to determine SIZE of pond ①
Cross Pitcher Pumper, or can it be accomplished on Site.
Need Top of Bank, Top of Berm Low Also
Forty Feet or Five

APPROVED FOR ACCEPTANCE 4/25/84

APR 24 1984
HYDROLOGY SECTION

HALL ENGINEERING
2625 Pennsylvania Ave., N.E.
Suite 350
Albuquerque, New Mexico 87110

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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R# 35 DATE 3-19-02 OP KP

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3/19/02
DIRECTOR

Roberta Duran
NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/02/02

D24 C20 B16 A12 | CITY OF ALBUQERQUE C D

GRADING AND DRAINAGE PLAN

BENCH MARK
CITY BM 1-25-17
ELEV 5171.1
ON SITE TBM
5108.1
US BAYOTT BACK OF FIRE HYDRANT
AT N.W CORNER OF PROPERTY

SCALE 1"=40'

PAN AMERICAN RD NE
(FRONTAGE RD)

PROPOSED ROAD BY OTHERS

REFER TO F-17 D&B DRAINAGE PLAN

*NOTE: WATER BLOCKED FROM REAR FORCED TO FRONT POND

EXIST. BLDG FINISHED FLOOR 78.20 to 74.0

REFER TO F-17 D&S DRAINAGE PLAN

FUTURE ENTRANCE PLAZA (BY OTHERS)

892.82'

NEW CURB, GUTTER & SIDEWALK (SEE DETAIL THIS SHT.)

EXISTING SIGNS REMAIN

NEW SIDEWALK CHASE

PHASE 2
FINISHED FLR. 77.5 & 80.5
FUTURE BLDG

PHASE 3
PROPOSED FIN. FLR. 86.5 & 89.5
FUTURE BLDG

FINISHED FLOOR 78.50
FF 73.45
3/1/85
SUMP PUMP

POND NO. 4
10,150 cf
5.50'
INV
85.5

2 STEEL CULVERTS OFFSITE FROM RD R/W

Chain Link Fence (6' Max Ht)

POND NO. 2
V= 3,059 cf

POND NO. 3
V= 3,201 cf
INLET GRATE ELEV. 80.8
INV. 79.5

4" PVC DRAINLINE

4" PVC DRAINAGE TO DRYWELL

6" CURB CUT

6" CURB CUT

6" CURB CUT

4" PVC DRAINAGE TO DRYWELL

6" CURB CUT

6" CURB CUT

6" CURB CUT

PUBLIC WORKS/HYDROLOGY

2 OF 5

F17/D24

GRADING AND DRAINAGE PLAN

BENCH MARK
CITY BM I-25-12
ELEV 5171.1
ON SITE TBM
5128.7
16' BANJET EAST OF FIRE HYDRAUT
AT NW CORNER OF PROPERTY

SCALE 1"=40'

PAN AMERICAN RD NE

PROPOSED POND BY OTHERS

REFER TO F-17 DSB DRAINAGE PLAN

REFER TO F-17 DSB DRAINAGE PLAN

*NOTE: WATER BLOCKED FROM REAR FORCED TO FRONT POND

EXIST BLDG
FINISH FLOOR 75.50 TO 76.0

NEW DRIVEWAY (SEE DETAIL THIS SHT)

SIDEWALK SLOPE

FUTURE BUILDING AREA (BY OTHERS)

892.82'

FINISHED FLOOR 75.50
FF 73.45
5/8"x3'

PHASE 2
FINISHED FLR 77.5 F BDS
FUTURE BLDG

PHASE 3
PROPOSED FIN FLR 86.5 F BDS
FUTURE BLDG

NEW SEWAGE GRADE

POND NO. 4
10,150 cf

6" STEEL CULVERT
ORIFICE FLOW @ 3ft

Chain Link Fence (6' High Min)

POND NO. 2
11,326 cf

POND NO. 3
11,326 cf
INLET GRATE ELEV 85.8
W.S.E. 89.3

NEW ROAD LIMITS

100ft EXISTING ASPHALT

EXISTING BLDG
FINISHED FLR 91.31

EXISTING BLDG
FINISHED FLOOR 91.70

EXISTING BLDG
FINISHED FLR 91.11

NON CONTRIBUTING AREA

NON CONTRIBUTING AREA

925.04

LINCOLN ROAD N.E.

Richard Hall
8614

RD SECTION DETAIL

CURB & GUTTER DETAIL

SECTION A-A

VICINITY MAP

Existing Pond # 1
NEW VOLUME CALCULATIONS
SURFACE AREA 2944 sq ft
ORIFICE FLOW ELEVATION 70.0
BOTTOM OF POND 69.3
1.3 ft

V = 1/3 AD
= (2944)(1.3)/3 = 1275 cu. ft.

Existing Pond # 4
SURFACE AREA THE SAME 3660 ft
DEPTH IS OFF 0.5'
REDUCTION 1830 ft³ FROM 14,478 designed
BUT STILL OVER 4725 ft³ Req'd
FOR PHASE I

CURB & GUTTER DETAILS

LEGEND

EXISTING CONTOUR LINE 5095
AS-BUILT CONTOUR LINE 90
PROPOSED CONTOUR LINE 90
AS STAKED OR ADJUST OF GRADE ELEVATION (EXISTING) 132
PROPOSED GRADE ELEVATION TO TOP OF CURB 77.50
TO TOP OF WALL

NOTES

1. Pond No. 1 (11,326 cf) and Pond No. 4 (10,150 cf) are to be constructed in Phase 1. Total ponding required in Phase 1 is 4728 cubic feet.
2. Phase 2 and Phase 3 grading are not included in Phase 1. Zone 2 discharge pipe not to be installed in Phase 1.
3. Phase 2 and Phase 3 buildings are to be stepped as per elevations shown. Step locations to be determined when buildings are designed.

CERTIFICATION

I, RICHARD V. HALL (P.E. 7918) certify that I have checked the elevations and pond volume on this Grading and Drainage Plan hereon and have found substantial compliance with approved Drainage Plan PHASE I

Richard Hall
Richard V. Hall, P.E. #7918
Date: 2/19/85
3/5/85

REGISTERED PROFESSIONAL ENGINEER

RECEIVED
MAR 06 1985
HYDROLOGY SECTION

HALL ENGINEERING & SURVEYING
2625 Pennsylvania Ave., N.E.
Suite 303
Albuquerque, New Mexico 87110

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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R# 15 DATE 3-11-02 OP EQP

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DIRECTOR

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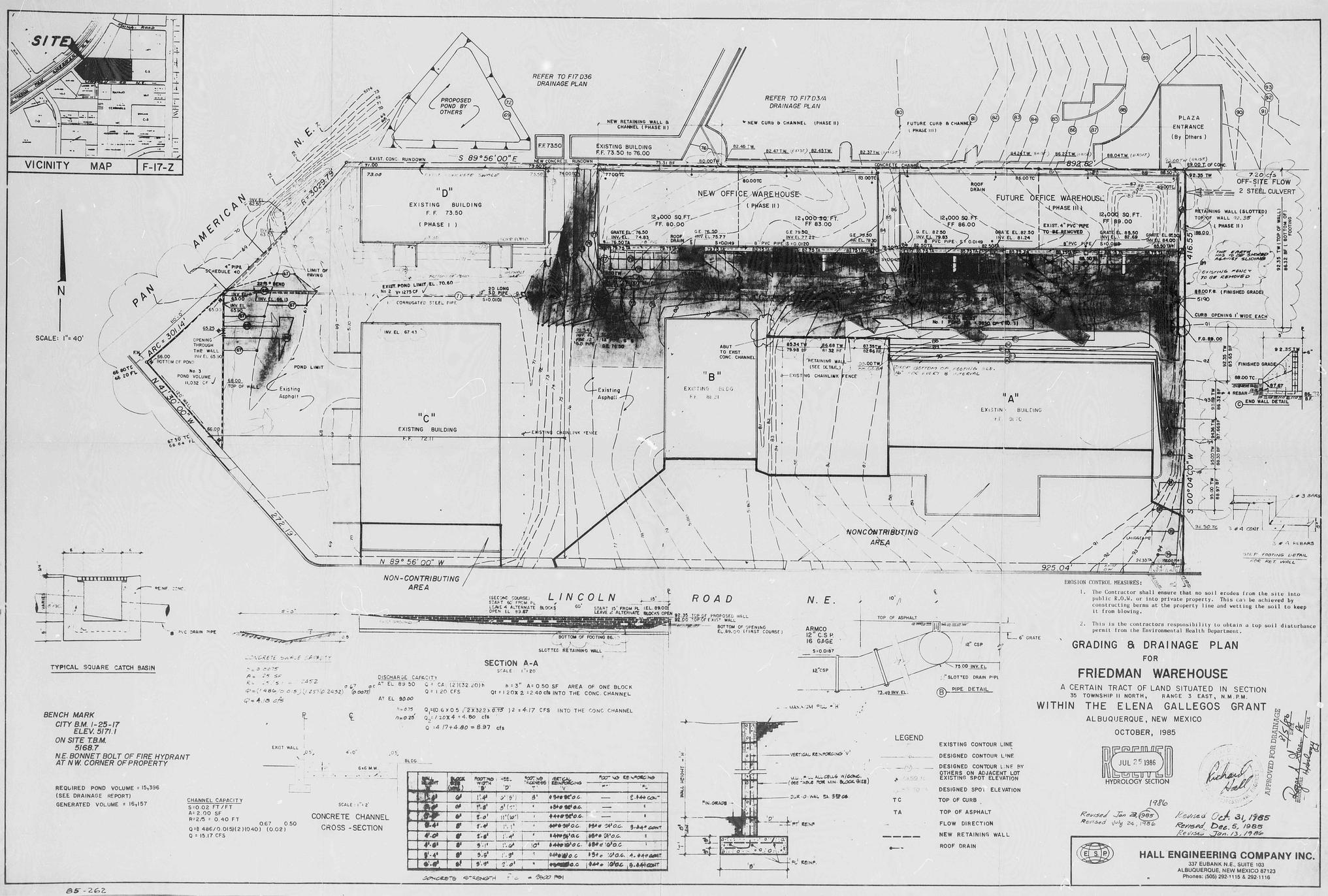
Roberta Duran
NOTARY PUBLIC
07/02/02

D24 C20 B16 A12 | CITY OF ALBUQERQUE C D

VICINITY MAP | F-17-Z

SCALE: 1"= 40'



TYPICAL SQUARE CATCH BASIN

CONCRETE SWALE CAPACITY

DISCHARGE CAPACITY AT EL 89.50 Q = CA (2)(32.2D)h h = 3" A = 0.50 SF AREA OF ONE BLOCK
Q = 120 CFS Q1 = 120 X 2 = 2.40 cfs INTO THE CONC. CHANNEL
AT EL 80.00 $Q_2 = 0.6 \times 0.5 \sqrt{2 \times 32.2 \times 0.75}\ 12 = 4.17$ CFS INTO THE CONC CHANNEL
$Q_3 = 120 \times 4 = 4.80$ cfs
Q = 4.17 + 4.80 = 8.97 cfs

SECTION A-A
SCALE 1"=20

ARMCO 12" C.S.P. 16 GAGE S=0.0187 — 12" CSP — 6" GRATE — TOP OF ASPHALT — 75.00 INV. EL. — 12" SLOTTED DRAIN PIPE — 73.49 INV. EL.
PIPE DETAIL

BENCH MARK
CITY B.M. 1-25-17
ELEV. 5171.1
ON SITE T.B.M.
5168.7
N.E. BONNET BOLT OF FIRE HYDRANT AT N.W. CORNER OF PROPERTY

REQUIRED POND VOLUME = 15,396
(SEE DRAINAGE REPORT)
GENERATED VOLUME = 16,157

CHANNEL CAPACITY
S=0.02 FT/FT
A=2.00 SF
R=2/5 = 0.40 FT
Q=(1.486/0.015)(2)(.040)^.67 (.02)^.50
Q = 15.17 CFS

CONCRETE CHANNEL CROSS-SECTION
SCALE: 1"=2'

WALL HEIGHT	BLOCK SIZE (NOM.)	FOOTING WIDTH 'B'	FOOTING DEPTH 'D'	KEY WIDTH 'W'	KEY DEPTH 'K'	VERTICAL REINFORCING 'V'	FOOT NO REINFORCING 'H'	'R'
3'-4"	6"	1'-4"	2'-5"	8"	1"	#5 @ 96" O.C.	—	E.W. #4 @ 24" O.C.
4'-0"	6"	1'-8"	2'-11"	8"	1"	#5 @ 96" O.C.	—	"
4'-8"	6"	2'-0"	3'-5"	8"	1"	#4 @ 48" O.C.	—	"
5'-4"	6"	2'-4"	3'-11"	8"	1"	#5 @ 48" O.C.	#5 @ 24" O.C.	E.W. #4 @ 24" O.C.
6'-0"	6"	2'-8"	4'-4"	8"	1"	#5 @ 48" O.C.	#5 @ 24" O.C.	"
6'-8"	6"	3'-0"	4'-10"	10"	1"	#6 @ 48" O.C.	#5 @ 16" O.C.	"
7'-4"	6"	3'-4"	5'-3"	10"	1"	#6 @ 48" O.C.	#5 @ 16" O.C.	E.W. #4 @ 24" O.C.
8'-0"	6"	3'-8"	5'-9"	10"	1"	#6 @ 48" O.C.	#5 @ 16" O.C.	"

CONCRETE STRENGTH F'_c = 3000 PSI

LEGEND
- EXISTING CONTOUR LINE
- DESIGNED CONTOUR LINE
- DESIGNED CONTOUR LINE BY OTHERS ON ADJACENT LOT
- EXISTING SPOT ELEVATION
- DESIGNED SPOT ELEVATION
- TC TOP OF CURB
- TA TOP OF ASPHALT
- FLOW DIRECTION
- NEW RETAINING WALL
- ROOF DRAIN

EROSION CONTROL MEASURES:

1. The Contractor shall ensure that no soil erodes from the site into public R.O.W. or into private property. This can be achieved by constructing berms at the property line and wetting the soil to keep it from blowing.
2. This is the contractors responsibility to obtain a top soil disturbance permit from the Environmental Health Department.

GRADING & DRAINAGE PLAN
FOR
FRIEDMAN WAREHOUSE

A CERTAIN TRACT OF LAND SITUATED IN SECTION 35 TOWNSHIP 11 NORTH, RANGE 3 EAST, N.M.P.M.
WITHIN THE ELENA GALLEGOS GRANT
ALBUQUERQUE, NEW MEXICO
OCTOBER, 1985

RECEIVED JUL 25 1986 HYDROLOGY SECTION

Revised Jan 23, 1986
Revised July 24, 1986
Revised Oct. 31, 1985
Revised Dec. 5, 1985
Revised Jan. 13, 1986

APPROVED FOR DRAINAGE 2/5/86 DATE
CITY ENGINEER

HALL ENGINEERING COMPANY INC.
337 EUBANK N.E. SUITE 103
ALBUQUERQUE, NEW MEXICO 87123
Phones: (505) 292-1115 & 292-1116

PLAN SHOT TWICE ONCE ON LIGHT ONCE ON DARK

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R# 25 DATE 3-7-12 OP KSP

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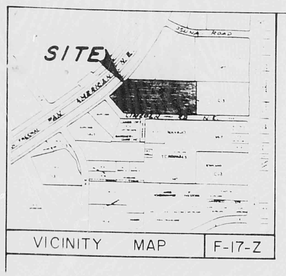
DIRECTOR

Roberta Duran
NOTARY PUBLIC
OFFICIAL SEAL Roberta Duran NOTARY PUBLIC STATE OF NEW MEXICO
07/03/02 Mmd

85-262

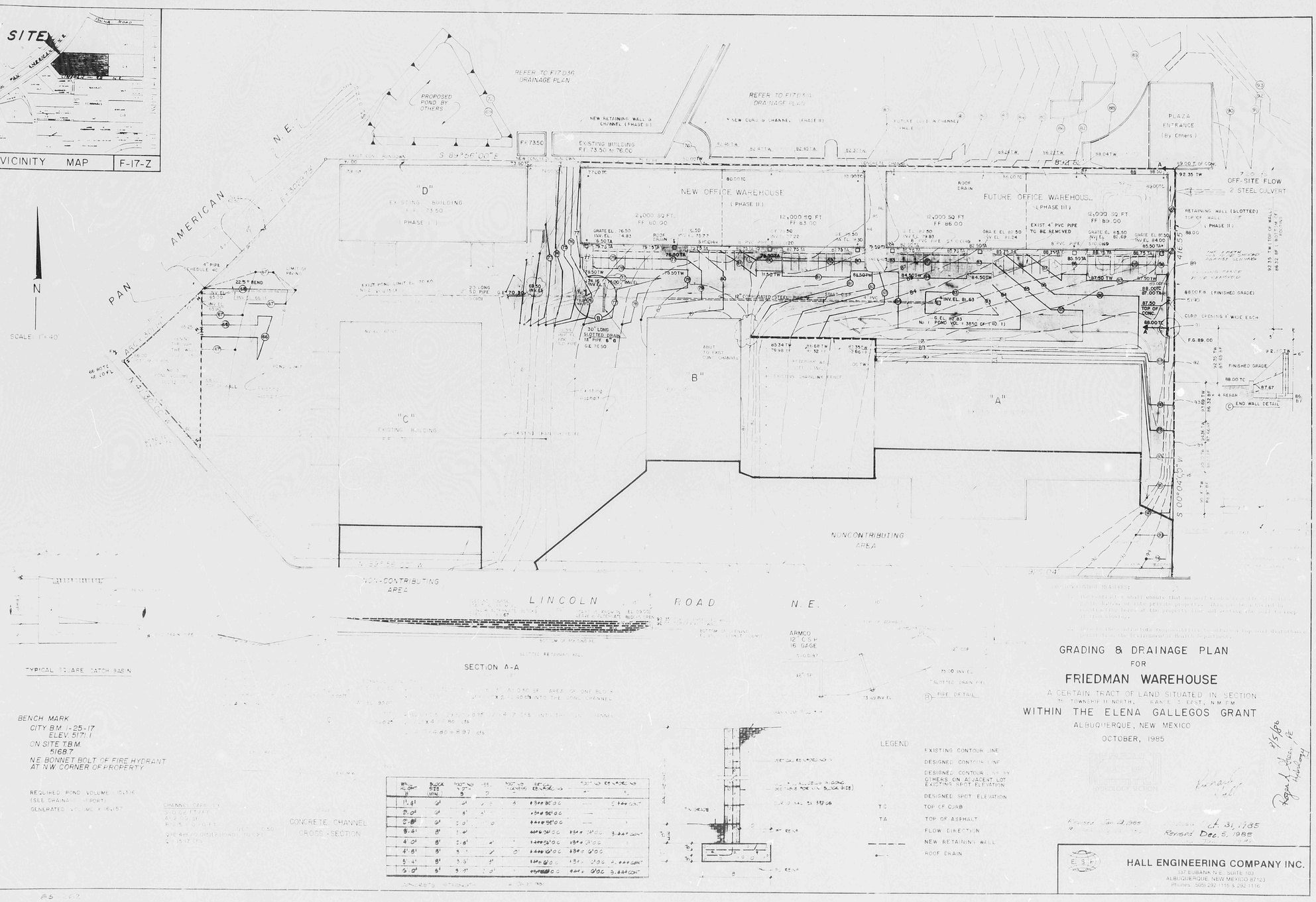
D 24 C 20 B 16 A 12 | CITY OF ALBUQUERQUE C D



VICINITY MAP | F-17-Z

N

SCALE 1"=40'



BENCH MARK
CITY B.M. I-25-17
ELEV. 5171.1
ON SITE T.B.M.
5168.7
N.E. BONNET BOLT OF FIRE HYDRANT AT N.W. CORNER OF PROPERTY

REQUIRED POND VOLUME = 15,516
(SEE DRAINAGE REPORT)
GENERATED VOLUME = 16,157

CHANNEL CAPACITY
Q = 102.17 CFS
A = 2.00 SQ.FT.
R = 0.64 FT.
n = 0.015
S = 0.0178 FT/FT

MARK OF CONT	BLOCK SIZE MIN	FOOTING B	REF	FOOTING ELEVATION	REF	FOOTING DESIGNATION
11.61	6"	4'-0"	A	1.5 @ 90°0'0"	—	6" CONT
21.03	6"	6'-0"	A	1.5 @ 90°0'0"	—	
0'-8"	6"	2'-0"	0	1.5 @ 90°0'0"	—	
8.63	8"	7'-0"		90°0'0"	1.5 @ 90°0'0"	8.64 CONT
4'-0"	8"	2'-8"	A	1.5 @ 90°0'0"	1.5 @ 90°0'0"	
4'-8"	8"	3'-0"	A	1.5 @ 90°0'0"	1.5 @ 90°0'0"	
5'-4"	8"	3'-4"	A	1.5 @ 90°0'0"	1.5 @ 90°0'0"	8.64 CONT
5'-0"	8"	3'-4"	1'-0"	1.5 @ 90°0'0"	1.5 @ 90°0'0"	8.64 CONT

CONCRETE STRENGTH = 3000 PSI

GRADING & DRAINAGE PLAN
FOR
FRIEDMAN WAREHOUSE
A CERTAIN TRACT OF LAND SITUATED IN SECTION 35, TOWNSHIP 11 NORTH, RANGE 3 EAST, N.M.P.M.
WITHIN THE ELENA GALLEGOS GRANT
ALBUQUERQUE, NEW MEXICO
OCTOBER, 1985

Revised Jan 13, 1986
Revised Dec. 5, 1985

HALL ENGINEERING COMPANY INC.
137 EUBANK N.E. SUITE 103
ALBUQUERQUE, NEW MEXICO 87123
Phones: (505) 292-1116 & 292-1116

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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R= 35 DATE 3-17-82 OP EP

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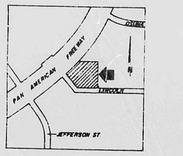
DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
Rebeuta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 01/27/82

01/27/82/and

D 24 C 20 B 16 A 12 | CITY OF ALBUQERQUE C D



VICINITY MAP F-17-Z

PERMANENT BENCHMARK: 5171.1
NMSHD MONUMENT# I-25-17
WESTERN EDGE OF I-25 R/W

EXCAVATION & COMPACTION NOTES

1. OVEREXCAVATE BLDG AREA (45' TO NORTH) WITHIN LIMITS SHOWN ON DRAWING TO A DEPTH OF 516.7 (2'-0" BELOW BOTTOM OF SLAB).
2. OVEREXCAVATE AREA A (10' WIDE STRIP AT PERIMETER FOOTING) TO A DEPTH OF 516.7 (2'-0" BELOW FINISH FLOOR ELEVATION)
3. ALL OVEREXCAVATED AREAS ARE TO BE FILLED & COMPACTED WITH IMPORTED ON-SITE FILL MATERIALS TO OBTAIN A MINIMUM OF 90% DENSITY BASED ON MODIFIED PROCTOR TESTING

DRAINAGE REPORT

GENERAL:

This construction is the second phase of a planned three phase development. The property was originally approved for six warehouses. Two were built in 1972 and two are now being proposed for the site.

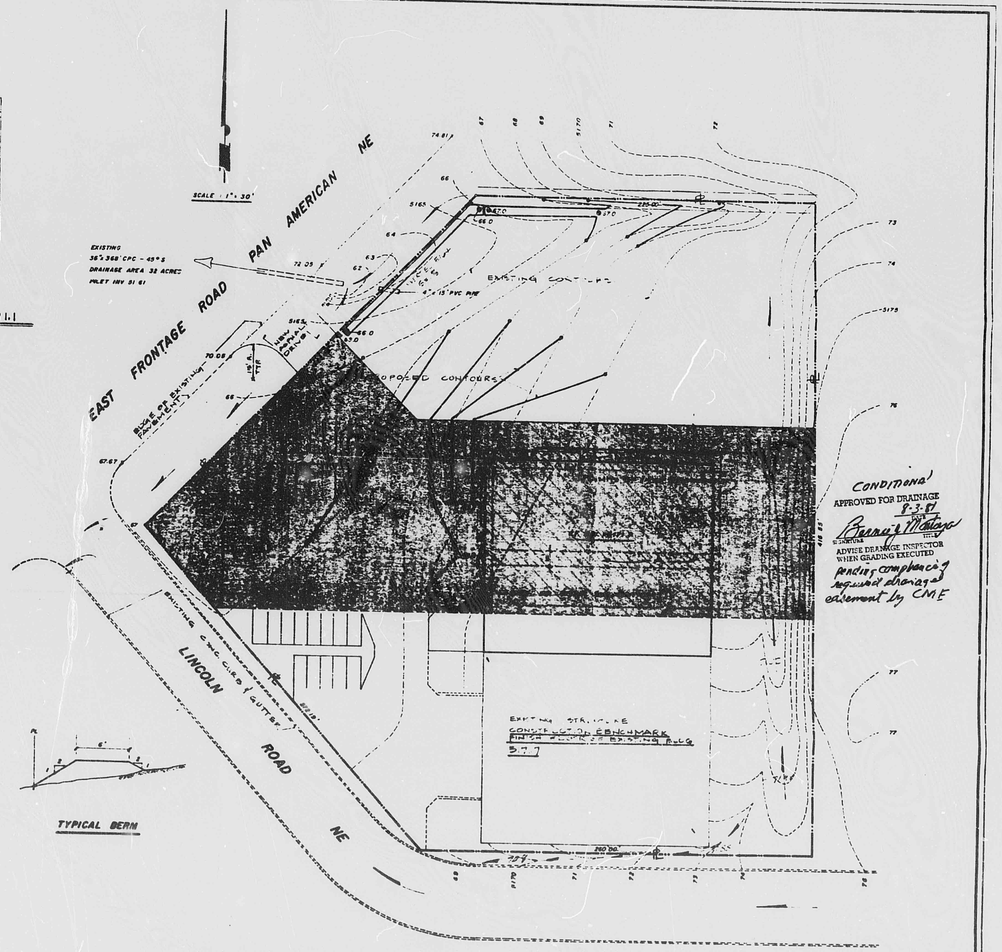
The property is located at the northeast corner of I-25 east frontage road and Lincoln N. E. The total lot size is 3.258 acres. This development is 1.209 acres, and will have a balance of 0.908 acres undeveloped.

CURRENT DRAINAGE CONDITIONS:

This lot is a portion of 32 acres which is drained by a 36" CPP, 368' long, skewed 45 degrees right, on a slope of 2.34% across the I-25 hiway system. The pipe has a capacity of 100 CFS. A swale exists along the eastern and northern boundary of this property for receiving and conveying off-site flows to the bar ditch. The off-site flow routing is not changed by this drainage plan.

PROPOSED DRAINAGE:

This development, which is an addition of two warehouse bays, yields a net increase of impervious area of 47,490 square feet. This would necessitate a detention and controlled release of 4,750 cubic feet of storm waters. The design proposed provides 5,000 cubic feet of retained storage and release through a 4" PVC pipe into the existing 36" CPP. In addition, the existing swales are to be re-shaped and straightened.



GRADING & DRAINAGE PLAN
SCALE: 1"=30'

F17/D24

REVISED: BASIS 1981; ESTABLISHED PERMANENT & CONSTR. BENCH MARK
LABELED EXISTING & PROPOSED CONTOURS
LABELED & EXISTING CONC. CURB & GUTTER
EXISTING BASE OF PAVEMENT

5304 & 5306 Pan American

DURA BILT PRODUCTS, INC.
GENERAL CONTRACTORS LICENSE NO. 3864
4008 JEFFERSON NE PH 883-9180 ALBUQUERQUE NM 87109

ADDITION TO FRIEDMAN COMPLEX WAREHOUSE
5304 & 5306 PAN AMERICAN FREEWAY NE

DATE 9 JUNE 81
JOB NO 81-116

SHEET NO. 1A OF 6

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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R# 25 DATE 3-19-02 OP EQP

CITY OF ALBUQUERQUE

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The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS14.5-1977)

3/15/02
DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 07/03/02

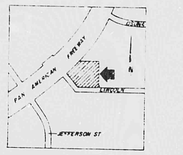
C B A

C20 B16 A12

CITY OF ALBUQUERQUE C

PUBLIC WORKS/HYDROLOGY 3 OF 5

F17/D24



VICINITY MAP F-17-Z

PERMANENT BENCHMARK: 5171.1
NMSHD MONUMENT 1-25-17
WESTERN BOLT OR 2.25 R/W

EXCAVATION & COMPACTION NOTES

1. OVEREXCAVATE BUILDING AREA (EXCEPT AS NOTED) AS SHOWN ON CLAY AND TO A DEPTH OF SUBGRADE 2' BELOW BOTTOM OF SLAB.
2. OVEREXCAVATE AREAS A, C & D 2' BELOW AT LEAST 5' BEYOND FOOTINGS, TO A DEPTH OF SUBGRADE 2' BELOW FINISH FLOOR ELEVATION.
3. ALL OVEREXCAVATED AREAS TO BE RE-COMPACTED WITH NATIVE, ON-SITE SOILS, MAXIMUM 8" LIFTS, COMPACTED TO 95% DENSITY BASED ON MODIFIED PROCTOR TESTING.

DRAINAGE REPORT

GENERAL:

This construction is the second phase of a planned three phase development. The property was originally surveyed for all warehouses. Two were built in 1972 and two are now being proposed for this site.

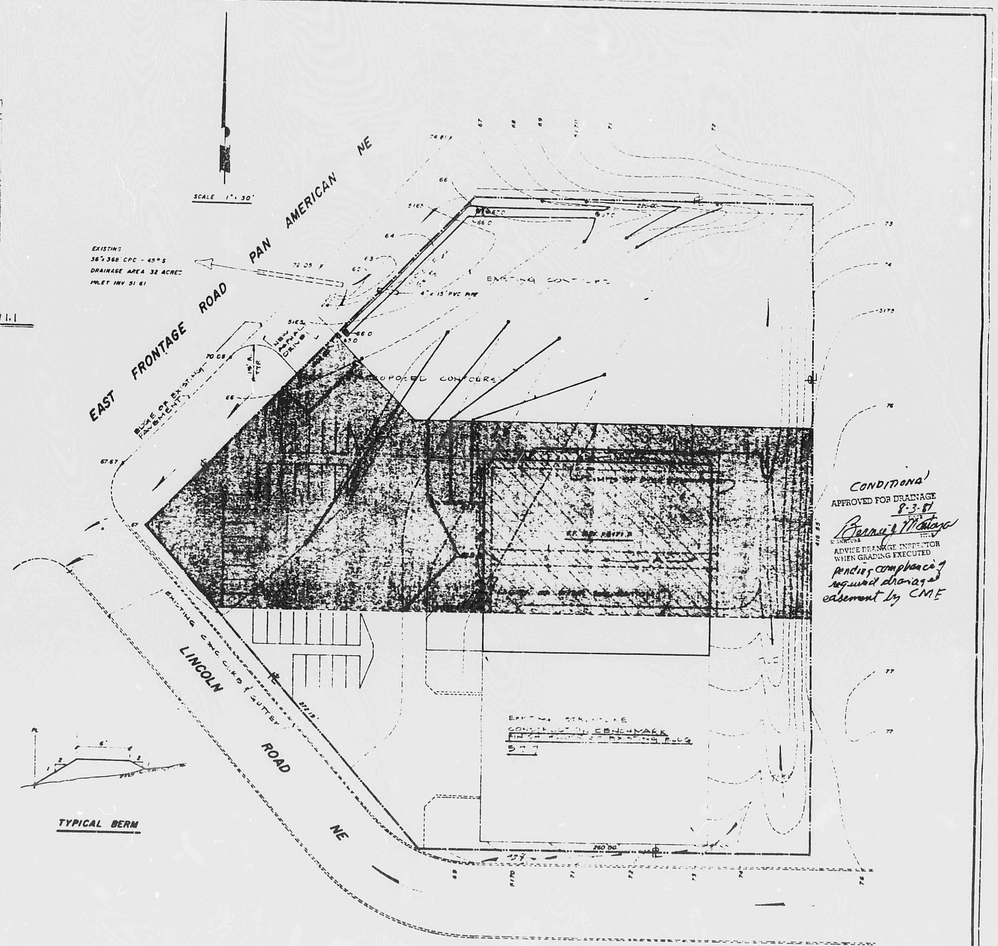
The property is located at the northeast corner of Lincoln and Pan American Freeway N.E. The total lot size is 3.036 acres. This development is 1.209 acres, and will have a balance of 1.827 acres undeveloped.

CURRENT DRAINAGE CONDITIONS:

This lot is a portion of 32 acres which is drained by a 36" CMP, 348' long, skewed 45 degrees right, on a slope of 2.34% across the I-25 blown system. The pipe has a capacity of 100 CFS. A swale exists along the eastern and northern boundary of this property for receiving and conveying off-site flows to the bar ditch. The off-site flow existing is not changed by this drainage plan.

PROPOSED DRAINAGE:

This development, which is an addition of two warehouse bays, yields a net increase of impervious area of 47,490 square feet. This would necessitate a detention and controlled release of 4,750 cubic feet of storm waters. The design proposed provides 7,904 cubic feet of retained storage and release through a 4" PVC pipe into the existing 36" CMP. In addition, the existing swales are to be re-shaped and straightened.



GRADING & DRAINAGE PLAN
SCALE: 1" = 30'

CONDITIONAL
APPROVED FOR DRAINAGE
8-3-87
Barney J. Montoya
CITY ENGINEER
ADVISE DRAINAGE INSPECTOR WHEN GRADING EXECUTED
Provide compliance to required drainage easement by CME

F17/D24

REVISED: AUG 1981, ESTABLISHED PERMANENT & CONST. BENCH MARK, LABELED EXISTING & PROPOSED CONTOURS, LABELED & EXISTING CONC. CURB & GUTTER, EXISTING BASE OF PAVEMENT

5304 & 5306 Pan American

DURA BILT PRODUCTS, INC.
GENERAL CONTRACTORS LICENSE NO. 3044
4808 JEFFERSON NE PH 883-9100 ALBUQUERQUE NM 87109

ADDITION TO FRIEDMAN WAREHOUSE COMPLEX
5304 & 5306 PAN AMERICAN FREEWAY NE

DATE 8 JUNE 81
JOB NO 81-116

SHEET NO 1A OF 10

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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R# 35 DATE 3-19-02 OP EP

CITY OF ALBUQUERQUE

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The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS115-1977)

Thos. T. Adley 4/15/02
DIRECTOR

Roberta Duran
NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/03/02 and

C B A

C20 B16 A12

CITY OF ALBUQUERQUE C

EROSION CONTROL MEASURES:

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT FOR STORM RUN-OFF DURING CONSTRUCTION; HE SHALL INSURE THAT THE FOLLOWING MEASURES ARE TAKEN:

1.) ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF FROM LEAVING THE SITE AND ENTERING ADJACENT PROPERTIES.

2.) ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER PUBLIC STREETS.

3.) THE CONTRACTOR SHALL IMMEDIATELY AND THROUGHLY REMOVE ANY AND ALL SEDIMENT WITHIN PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SITE AND DEPOSITED THERE.

NOTICE TO CONTRACTOR:

1.) AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.

2.) ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH "CONTRACT DOCUMENTS FOR CITY WIDE UTILITIES AND CASH PAVING NO. 31".

3.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE (765-1234), FOR LOCATION OF EXISTING OF SURFACE AND SUBSURFACE UTILITIES.

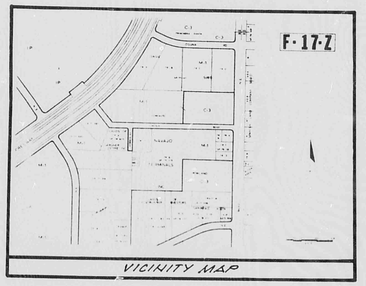
4.) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS; SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR THE PROJECT.

DRAINAGE COMMENTS: (FOR PROPOSED PHASE III OFFICE/WAREHOUSE CONSTRUCTION)

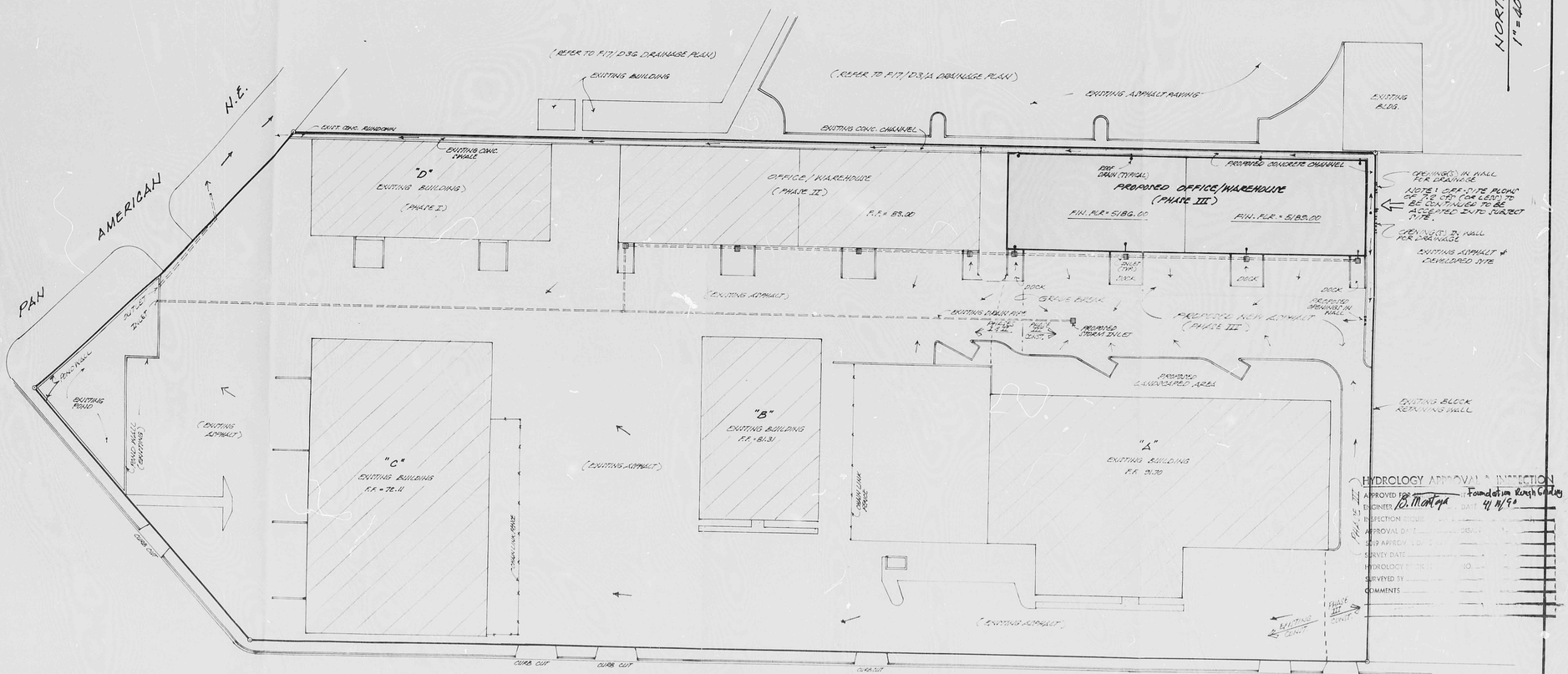
THE CONCEPTUAL GRADING AND DRAINAGE PLAN FOR THE PROPOSED DEVELOPMENT OF PHASE III AS SHOWN ON THE PLAN HEREON IS TO BE CONSISTENT AND CONSTRUCTED PER THE PREVIOUS APPROVED PLAN FOR THE PHASED DEVELOPMENT FOR THE FRIEDMAN OFFICE/WAREHOUSE (PLAN DATED: REVISED JULY 24, 1986) COMPLEX.

THE FINAL PLAN FOR THIS PHASE WILL BE SUBJECT TO THE ANALISIS OF THE DEVELOPED UP-STREAM OFF-SITE FLOWS NOW BEING ACCEPTED INTO THE SUBJECT SITE: SAID OFF-SITE FLOWS SHOWN TO BE 7.20 cfs ON SAID PREVIOUSLY APPROVED GRADING AND DRAINAGE PLAN WILL MORE THAN LIKELY BE LESS THAN ORIGINALLY CALCULATED.

THE PROPOSED FINISHED FLOOR ELEVATION(S) FOR SAID PHASE III OFFICE/WAREHOUSE BUILDING IS TO BE THE SAME AS ORIGINALLY DESIGNED (F.F. = 5186.00 AND 5189.00).



NORTH
1" = 40'



2" ASPHALTIC CONCRETE SURFACE COURSE, 1500 # STABILITY

6" SUBGRADE COMPACTED @ 95% ASTM D-1557

TYPICAL PAVEMENT SECTION
SCALE: 1" = 1'-0"

GENERAL NOTES:

1.) NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY.

2.) NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD WITHIN THE SUBJECT SITE OTHER THAN THOSE SHOWN ON THE PLAT OF RECORD.

3.) REFER TO "ARCHITECTURAL SITE PLAN" FOR FIELD LAYOUT OF THE PROPOSED IMPROVEMENTS.

HYDROLOGY APPROVAL & INSPECTION

APPROVED FOR	Foundation Rough Grading
ENGINEER	B. Montoya
INSPECTION RECEIVED	
APPROVAL DATE	4/11/90
C.O.P. APPROV. LTR. DATE	
SURVEY DATE	
HYDROLOGY FILE #	
SURVEYED BY	
COMMENTS	

RECEIVED
APR 9 1990
HYDROLOGY DIVISION

REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
No. 5590
4-9-1990
W. REL LUCAS
ENGINEER N.M.

CONCEPTUAL GRADING & DRAINAGE PLAN
FOR
FRIEDMAN OFFICE/WAREHOUSE-PHASE III
(TRACTS "A", "B" & "C", LANDS OF FRIEDMAN, ELEHABALLEGOS GRANT)
ALBUQUERQUE, NEW MEXICO
APRIL, 1990

CITY OF ALBUQUERQUE
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R# 25 DATE 3-19-92 OCR

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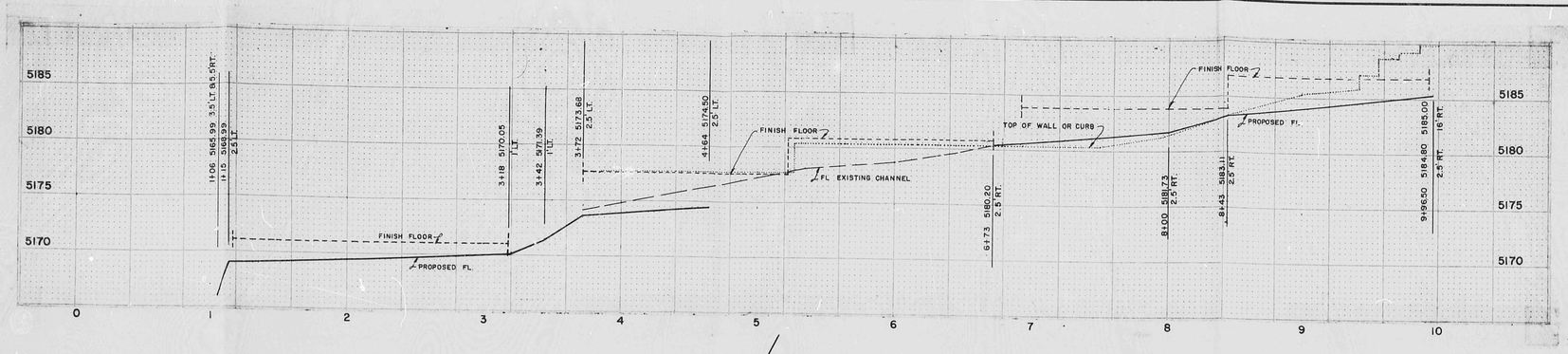
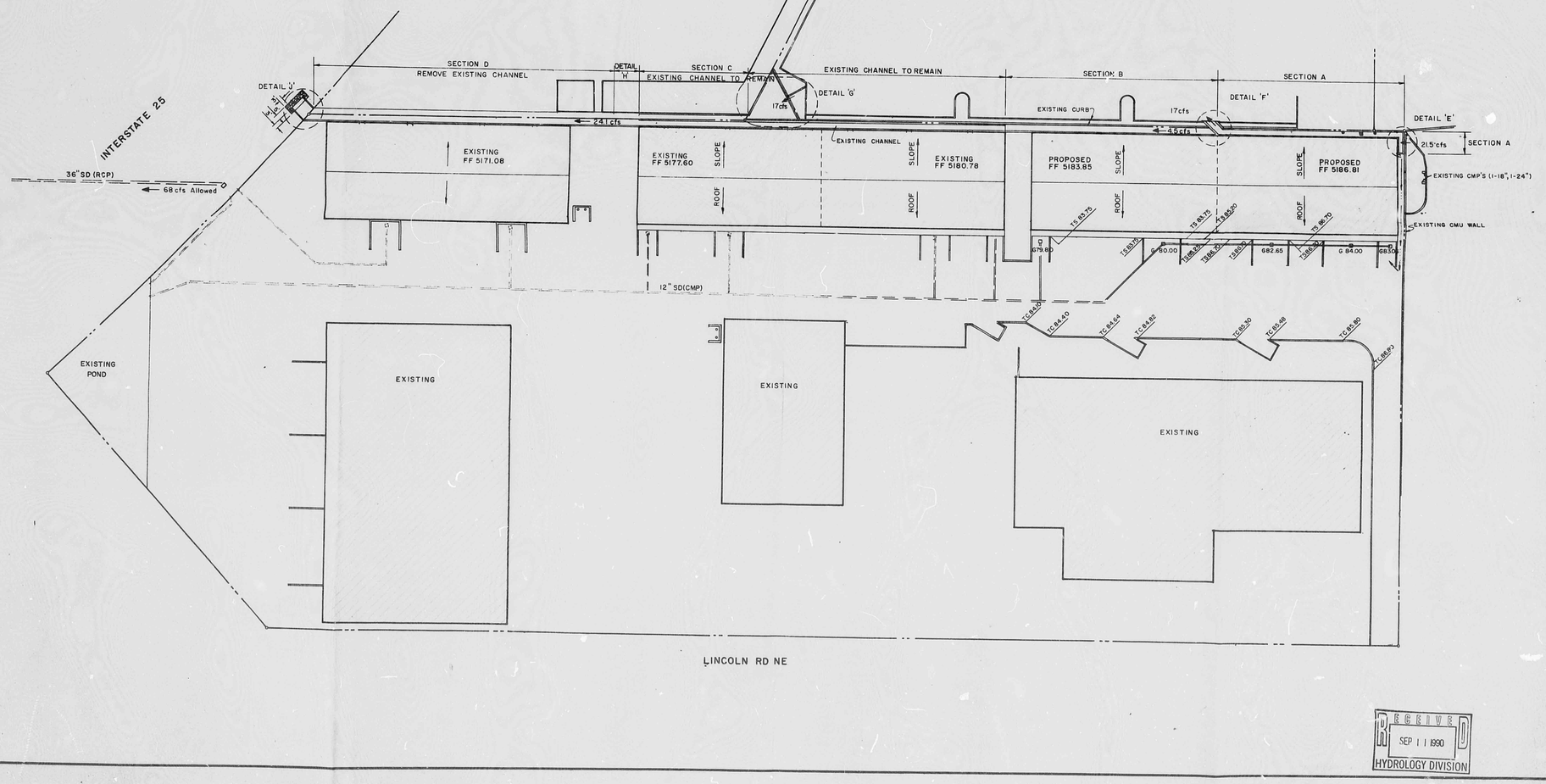
DIRECTOR 4/15/92

NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/02/92

D 24 C 20 B 16 A 12 CITY OF ALBUQERQUE C D





CLIENT	J. FRIEDMAN
	BORDENAVE DESIGNS 7100 Louisiana Blvd., NE A106 Albuquerque, New Mexico 87109 (505) 823-1344
DESIGNED	JJB 08/90
DRAWN	EER 08/90
REVIEWED	JJB 08/90

NO.	DATE	REVISIONS	BY.

JOB NUMBER 9012
FILE NUMBER 9012
DATE 08/90

TITLE **FRIEDMAN WAREHOUSES**
4801 LINCOLN RD NE
ALBUQUERQUE, NM

SHEET 1 OF 3

RECEIVED
SEP 11 1990
HYDROLOGY DIVISION

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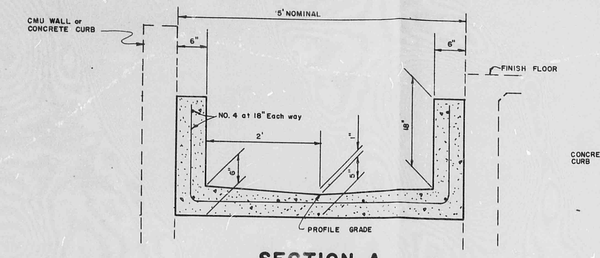
Chris J. Adkins 11/5/02
DIRECTOR

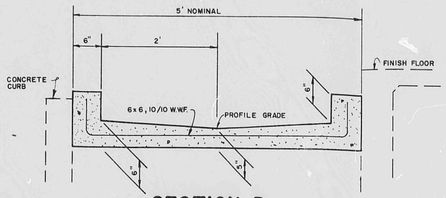
Roberta Duran
NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/02/02

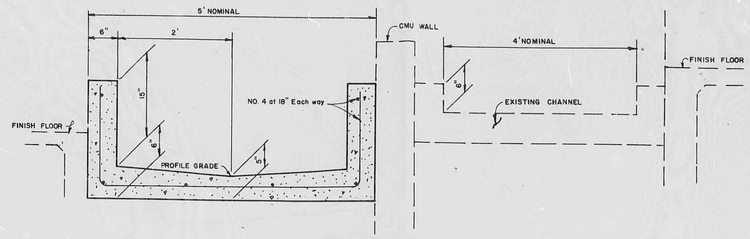
D 24 C 20 B 16 A 12 CITY OF ALBUQERQUE C D



SECTION A



SECTION B



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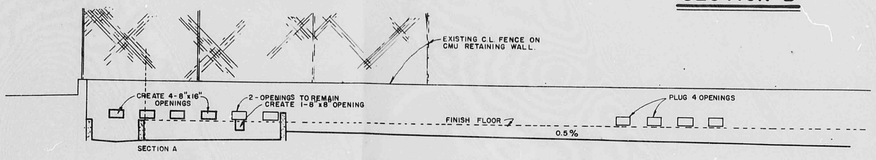
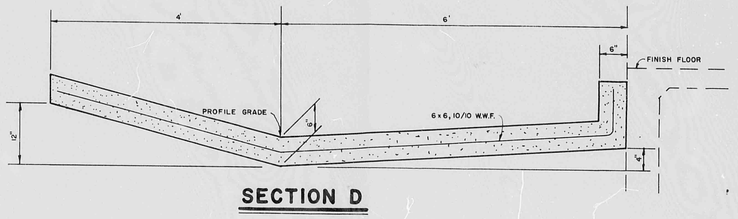
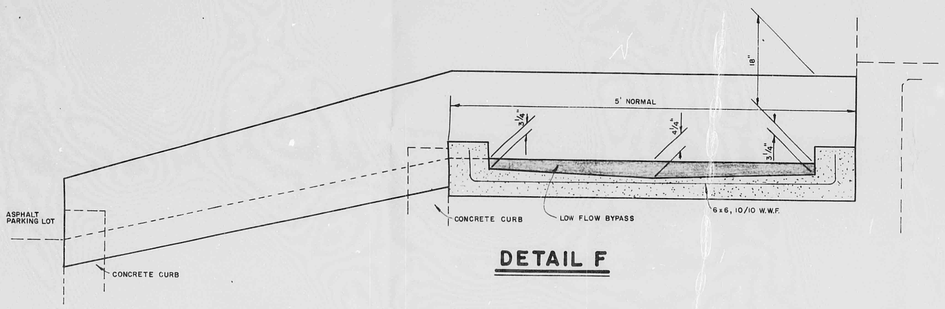


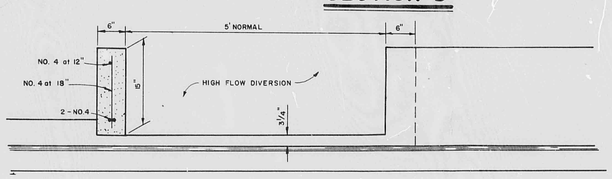
DETAIL E



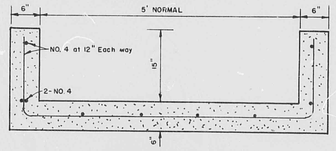
SECTION D



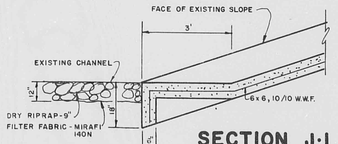
DETAIL F



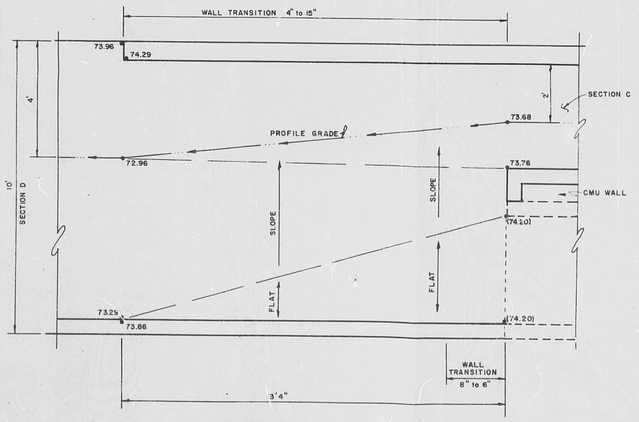
SECTION F·1



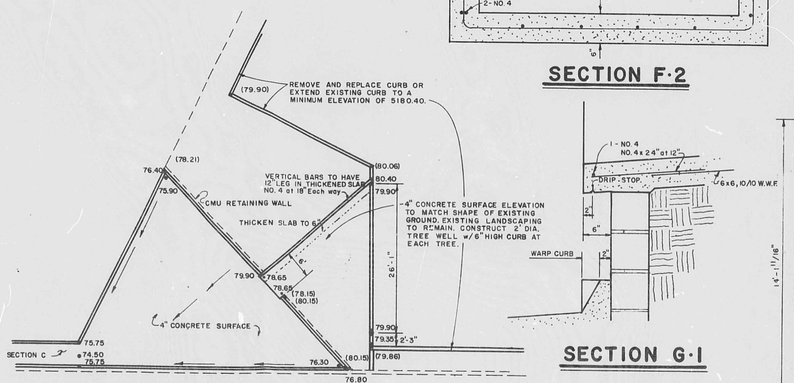
SECTION F·2



SECTION J·1

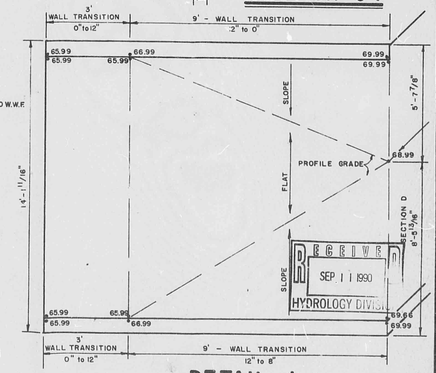


DETAIL H



DETAIL G

SECTION G·1



DETAIL J

DESIGNED	JJB	DATE	08/90
DRAWN	EER	DATE	08/90
REVIEWED	JJB	DATE	08/90

CLIENT: J. FRIEDMAN

DOBERMAYR DESIGNS
7100 Jefferson St. NE #106
Albuquerque, New Mexico 87109
(505) 823-1344

NO.	DATE	REVISIONS	BY

JOB NUMBER 9012
FILE NUMBER 5012
DATE 08/90

TITLE: FRIEDMAN WAREHOUSES
4801 LINCOLN RD NE
ALBUQUERQUE, NM

SHEET 2 OF 3

CITY OF ALBUQUERQUE
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R# 15 DATE 3-19-92 OR E&R

CITY OF ALBUQUERQUE

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Thomas J. Mulloy 11/5/92
DIRECTOR

Roberta Duran
NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My commission expires 07/27/93

D 24 C 20 B 16 A 12 | CITY OF ALBUQERQUE C D

PUBLIC WORKS/HYDROLOGY

4 OF 5

F17/D24

EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AT THE PROPERTY LINES AND WETTING THE SOIL TO KEEP IT FROM BLOWING.

2. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.

3. THE CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.

GRADING NOTES

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM 260-1990 FOR LOCATION OF EXISTING UTILITIES.

2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPL. ABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

4. ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.

LEGEND

TBM	TEMPORARY BENCH MARK
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLOW LINE
TA	TOP OF ASPHALT
TC	TOP OF CURB
TP	TOP OF PAD
TS	TOP OF SIDEWALK
TW	TOP OF WALL
FH	FIRE HYDRANT
MH	MAN HOLE
PP	POWER POLE
RD	ROOF DRAIN
PED	POWER OR TEL. PEDESTAL
WV	WATER VALVE
	EXISTING CONTOUR
	PROPOSED CONTOUR
(XX.X)	EXISTING ELEVATION
XX.X	PROPOSED ELEVATION
[XX.X]	AS-BUILT ELEVATION

BENCHMARKS

PERMANENT

NMSHC BRASS CAP I-25-17
ELEV. 5171.1

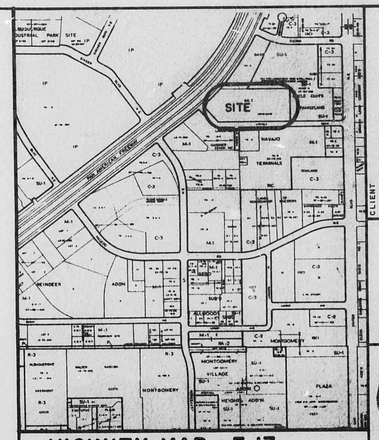
TEMPORARY

NORTHEAST BONNET BOLT FH
EAST END OF SITE, ELEV. 5187.46

NORTHEAST BONNET BOLT FH
NORTHWEST CORNER, ELEV. 5168.70

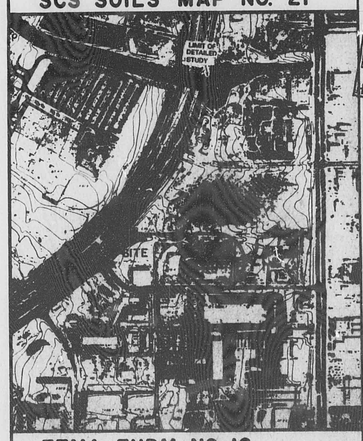
LEGAL

LANDS OF FRIEDMAN



VICINITY MAP F-17

SCS SOILS MAP NO. 21



FEMA FHBM NO. 16

DESIGNED	J.J.B.
DRAWN	E.E.R.
REVIEWED	J.J.B.
DATE	08/90

CLIENT J. FRIEDMAN

BORDENAVE DESIGNS
7100 Louisiana Blvd., NE #106
Albuquerque, New Mexico 87109
(505) 823-1544

NO.	DATE	REVISIONS	BY

JOB NUMBER 9012
FILE NUMBER 9012
DATE 08/90

TITLE
FRIEDMAN WAREHOUSES
4801 LINCOLN RD NE
ALBUQUERQUE, NM

SHEET 3 OF 3

RECEIVED
SEP 11 1990
HYDROLOGY DIVISION

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

R# 25 DATE 3-19-02 OP EGR

CITY OF ALBUQUERQUE

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4/5/02
DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My commission expires: 07/07/02

D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE C D

EROSION CONTROL NOTES

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LEGEND

TBM	TEMPORARY BENCH MARK
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLOW LINE
TA	TOP OF ASPHALT
TC	TOP OF CURB
TP	TOP OF PAD
TS	TOP OF SIDEWALK
TW	TOP OF WALL
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MH	MAN HOLE
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RD	ROOF DRAIN
PED	POWER OR TEL. PEDESTAL
WV	WATER VALVE
	EXISTING CONTOUR
	PROPOSED CONTOUR
(XXX)	EXISTING ELEVATION
XXX	PROPOSED ELEVATION
XXX	AS-BUILT ELEVATION

BENCHMARKS

PERMANENT

NMSHC BRASS CAP 1 25 17
ELEV. 5171

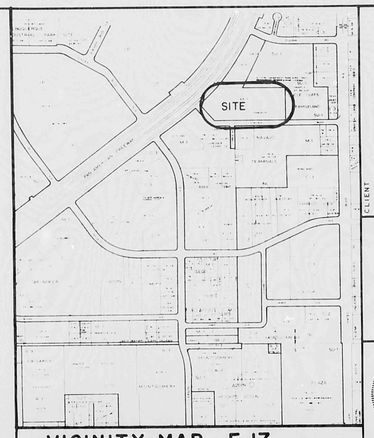
TEMPORARY

NORTHEAST BONNET BOLT F.H.
EAST END OF SITE, ELEV 5167.56

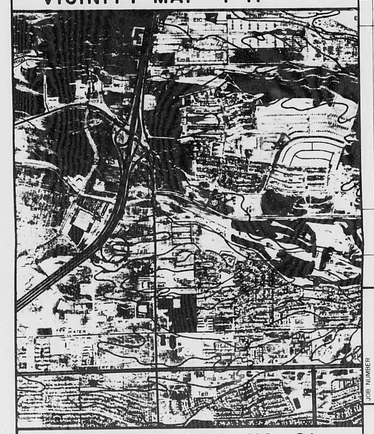
NORTHEAST BONNET BOLT F.H.
NORTHWEST CORNER, ELEV 5168.70

LEGAL

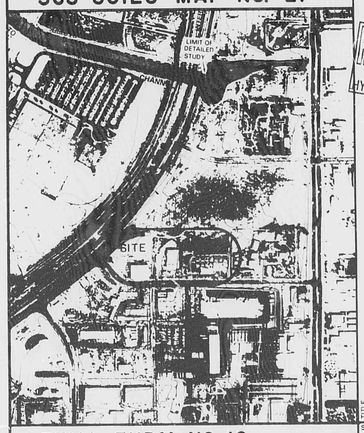
LANDS OF FRIEDMAN



VICINITY MAP F-17



SCS SOILS MAP NO. 21



FEMA FHBM NO. 16

CLIENT J FRIEDMAN

BORDENAVE DESIGNS
11704 Lisa Rd., NE A106
Albuquerque, New Mexico 87109
(505) 823-1344

J J B	DESIGNED	08/90 DATE
E F P	DRAWN	08/90 DATE
J J B	REVIEWED	08/90 DATE

NO.	DATE	REVISIONS	BY

JOB NUMBER 9012
FILE NUMBER 9012
DATE 08/90

TITLE FRIEDMAN WAREHOUSES
4801 LINCOLN RD NE
ALBUQUERQUE, NM

SHEET 3 OF 3

RECEIVED
SEP 11 1990
HYDROLOGY DIVISION

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ONCE ON DARK

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R# 35 DATE 5.17.93 OF 37

CITY OF ALBUQUERQUE
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The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS14B-1977)

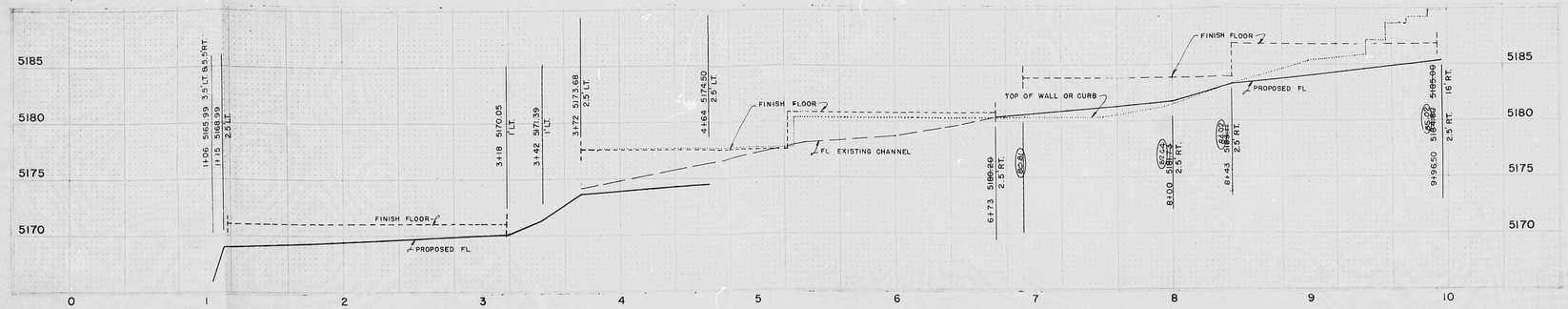
DIRECTOR

NOTARY PUBLIC

07/07/93

D24 C20 B16 A12

CITY OF ALBUQERQUE C D



ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT I HAVE REVIEWED THE CONSTRUCTED DRAINAGE FACILITIES AND HAVE FOUND THEM TO BE IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED DRAINAGE PLAN.

Jean J. Bordenave 01/07/91
Jean J. Bordenave PE&PS #5110

SECTION D
REMOVE EXISTING CHANNEL
DETAIL 'H'
SECTION C
EXISTING CHANNEL TO REMAIN
EXISTING CHANNEL TO REMAIN
SECTION B
SECTION A
DETAIL 'J'
DETAIL 'G'
DETAIL 'F'
DETAIL 'E'
17cfs
24.1 cfs
EXISTING CURB
17cfs
4.4cfs
21.5 cfs
SECTION A
INTERSTATE 25
36" SD (RCP)
EXISTING MDI-TYPE I
68 cfs Allowed
EXISTING CHANNEL
EXISTING FF 5171.08
EXISTING FF 5177.60
EXISTING FF 5180.78
PROPOSED FF 5183.85
PROPOSED FF 5186.81
SLOPE
ROOF
EXISTING CMP'S (1-18", 1-24")
EXISTING CMU WALL
12" SD(CMP)
SLOTTED DRAIN
EXISTING POND
EXISTING
EXISTING
EXISTING
LINCOLN RD NE
5368
5388 Pan Am Frwy NE
N
SCALE 1"=40'

RECEIVED
JAN 7 1991
HYDROLOGY DIVISION

CLIENT: J FRIEDMAN

BORDENAVE DESIGNS
7100 Louisiana Blvd., NE A106
Albuquerque, New Mexico 87109
(305) 823-1344

DESIGNED	JJB	08/90 DATE
DRAWN	EER	08/90 DATE
REVIEWED	JJB	08/90 DATE

NO.	DATE	REVISIONS	BY

JOB NUMBER 9012
FILE NUMBER 9012
DATE 08/90

TITLE
FRIEDMAN WAREHOUSES
4801 LINCOLN RD NE
ALBUQUERQUE, NM

SHEET 1 OF 3

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CITY OF ALBUQUERQUE

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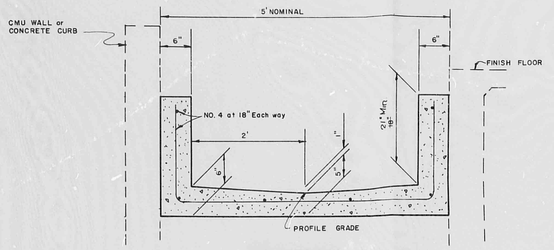
Mark T. Ashby 11/5/02
DIRECTOR

Roberta Duran
NOTARY PUBLIC
OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/22/05

D 24 C 20 B 16 A 12 CITY OF ALBUQERQUE C D



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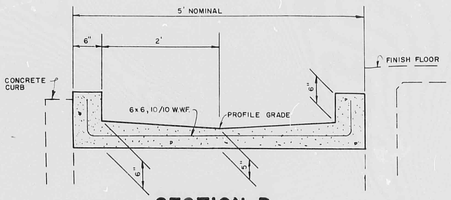

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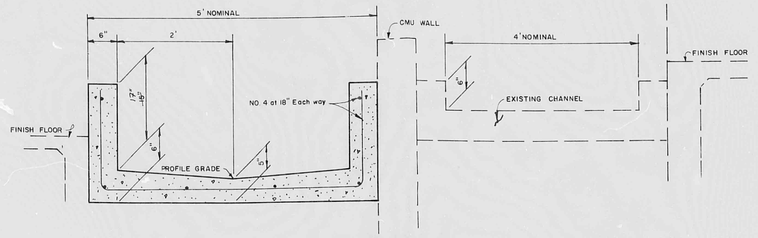

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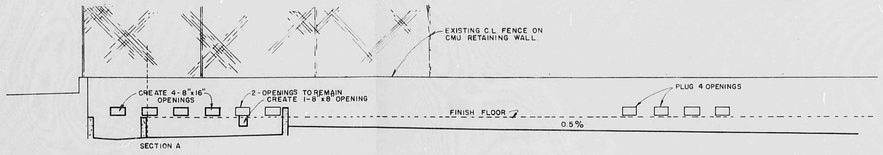
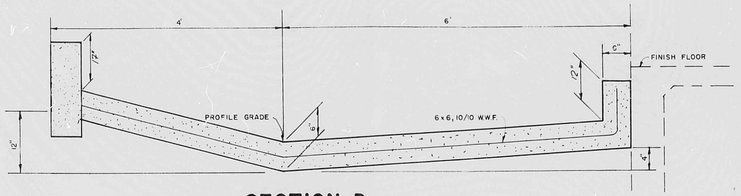


DETAIL E



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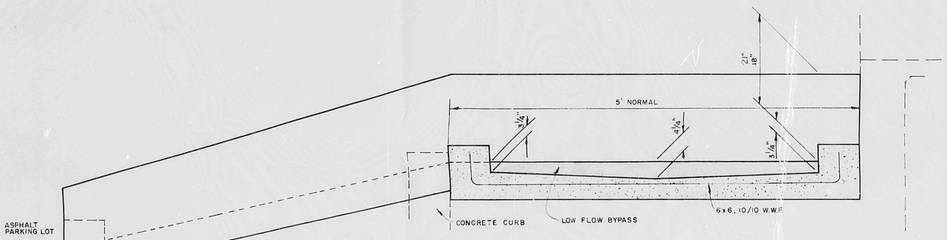

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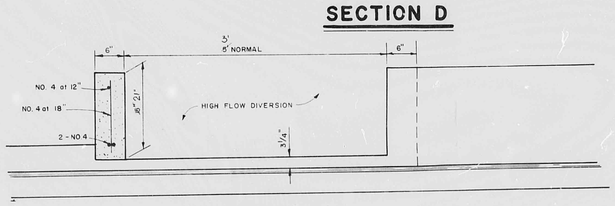

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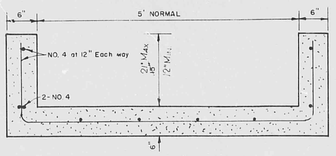

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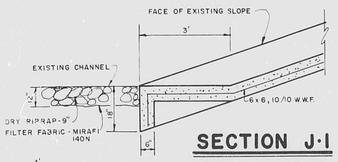

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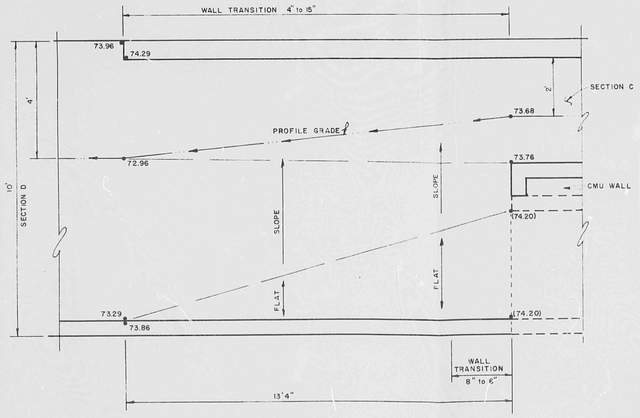
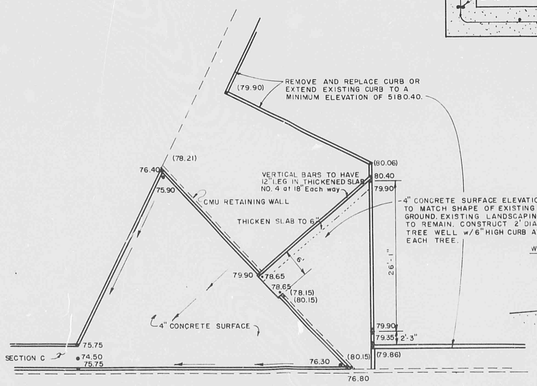
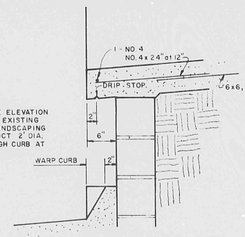


DETAIL H



DETAIL G



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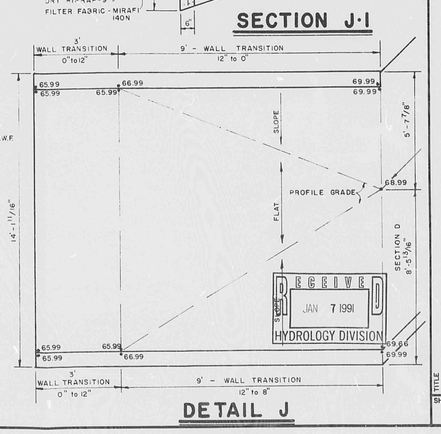

DETAIL J

CLIENT	J. FRIEDMAN
	BORDENAVE DESIGNS 7100 Louisiana Blvd., NE A106 Albuquerque, New Mexico 87109 (505) 823-1344
DESIGNED	JJB 08/90
DRAWN	EER 08/90
REVIEWED	JJB 08/90
JOB NUMBER	9012
FILE NUMBER	9012
DATE	08/90

NO	DATE	REVISIONS / REMARKS	BY

TITLE: FRIEDMAN WAREHOUSES
4801 LINCOLN RD NE
ALBUQUERQUE, NM

SHEET 2 OF 3

RECEIVED
JAN 7 1991
HYDROLOGY DIVISION

CITY OF ALBUQUERQUE
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Chris T. Anthony 1/15/02
DIRECTOR

Roberta Duran
NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/03/02

D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D

PUBLIC WORKS/HYDROLOGY 5 OF 5

F17/D24

99793

EROSION CONTROL NOTES

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	PROPOSED CONTOUR
(XX.X)	EXISTING ELEVATION
XX.X	PROPOSED ELEVATION
XX.X	AS-BUILT ELEVATION

BENCHMARKS

PERMANENT

NMSHC BRASS CAP I-25-17
ELEV. 5171.1

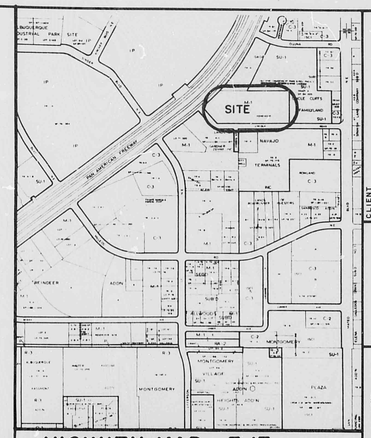
TEMPORARY

NORTHEAST BONNET BOLT FH
EAST END OF SITE, ELEV. 5187.46

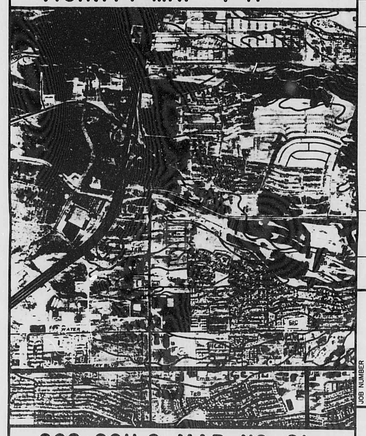
NORTHEAST BONNET BOLT FH
NORTHWEST CORNER, ELEV. 5168.70

LEGAL

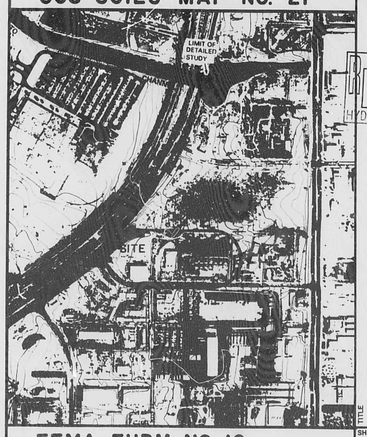
LANDS OF FRIEDMAN



VICINITY MAP F-17



SCS SOILS MAP NO. 21



FEMA FHBM NO. 16

CLIENT J FRIEDMAN

BORDENAVE DESIGNS
7100 Louisiana Blvd., NE A106
Albuquerque, New Mexico 87109
(505) 823-1344

DESIGNED	JJB	08/90
DRAWN	EER	08/90
REVIEWED	JJB	08/90

NO.	DATE	REMARKS	BY

REVISIONS

JOB NUMBER 9012
FILE NUMBER 9012
DATE 08/90

RECEIVED
JAN 7 1991
HYDROLOGY DIVISION

TITLE FRIEDMAN WAREHOUSES
4801 LINCOLN RD NE
ALBUQUERQUE, NM

SHEET 3 OF 3

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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R# 25 DATE 3-19-92 OF EGP

CITY OF ALBUQUERQUE

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DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/02/92

D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE C D

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FH — FIRE HYDRANT

MH — MAN HOLE

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RD — ROOF DRAIN

OHP — POWER OVER HEAD

WV — WATER VALVE

XXXX — EXISTING ELEVATION

XXX — PROPOSED ELEVATION

(XXX) — AS-BUILT ELEVATION

BENCHMARKS

PERMANENT

NGVD 1929 CAP [illegible]

ELEV. [illegible]

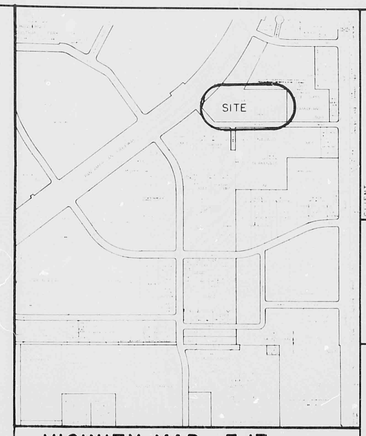
TEMPORARY

NORTHEAST BONNET HILL FH
EAST EDGE OF HILL, ELEV 5168.46

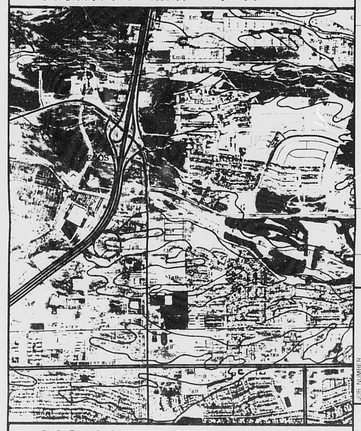
NORTHEAST BONNET HILL FH
NORTHWEST CORNER, ELEV 5168.70

LEGAL

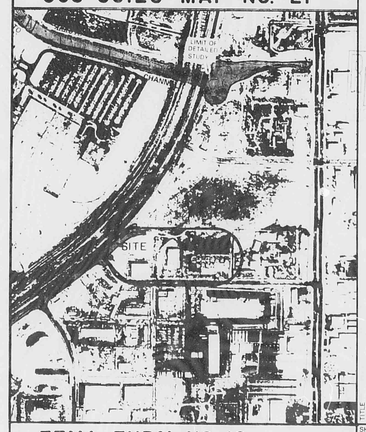
[illegible] OF FRIEDMAN



VICINITY MAP F-17



SCS SOILS MAP NO. 21



FEMA FHBM NO. 16

CLIENT: J. FRIEDMAN

DESIGNED: J.J.H. — DATE: 09/90
DRAWN: E.F. — DATE: 09/90
REVIEWED: N.T.H. — DATE: 09/90

BORDENAVE DESIGNS
4100 Indian School Rd., NE, Suite 210
Albuquerque, New Mexico 87110
(505) 843-1344

NEW MEXICO PROFESSIONAL ENGINEER 5110 JAMES J. HUGHES

NO.	REMARKS	BY	DATE

FILE: FRIEDMAN — DRAWING NO. 16512 — DATE: 09/90

FRIEDMAN WAREHOUSES
4801 LINCOLN RD NE
ALBUQUERQUE, NM

SHEET 3 OF 3

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

R# 15 DATE 3/7/02 OF 17

CITY OF ALBUQUERQUE

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The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS118-1977)

[signature] 3/8/02
DIRECTOR

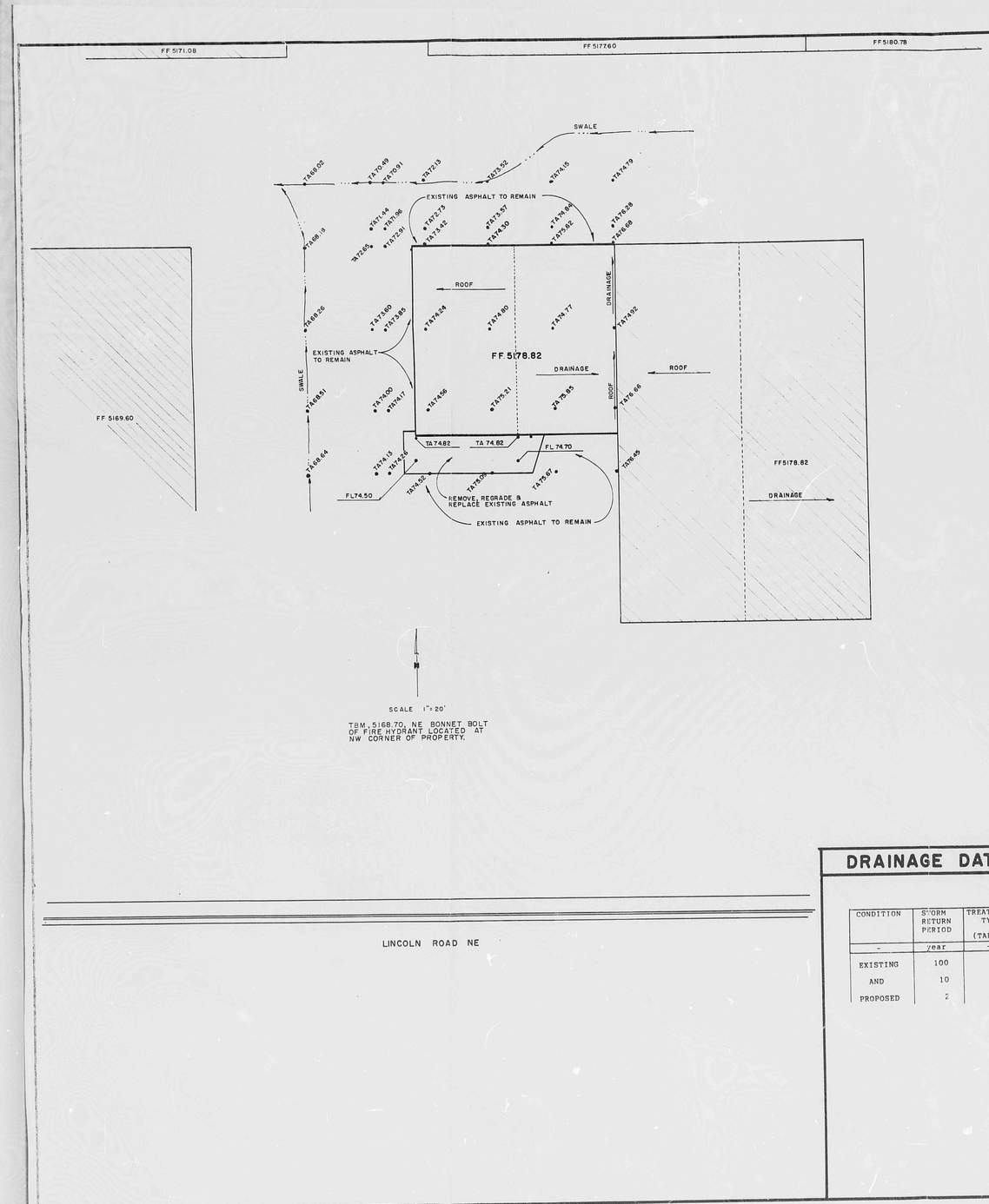
[signature]
NOTARY PUBLIC

My Commission Expires
[illegible]

03/07/02 jmm

D24 C20 B16 A12

CITY OF ALBUQERQUE C D



LEGEND

TBM	TEMPORARY BENCH MARK
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLOW LINE
TA	TOP OF ASPHALT
TC	TOP OF CURB
TP	TOP OF PAD
TS	TOP OF SIDEWALK
TW	TOP OF WALL
FH	FIRE HYDRANT
MH	MAN HOLE
PP	POWER POLE
RD	ROOF DRAIN
PED	POWER OR TEL. PEDESTAL
WV	WATER VALVE
	EXISTING CONTOUR
	PROPOSED CONTOUR
XX.X	EXISTING ELEVATION
XX.X	PROPOSED ELEVATION
	AS-BUILT ELEVATION

LEGAL DESCRIPTION

LANDS OF FRIEDMAN

PERMANENT BENCHMARK

NMSHC BRASS CAP I-25-17 ELEV. 5171.10

TOPO SURVEY

TOPO SURVEY BY BORDENAVE DESIGNS SEPT. 17, 1992

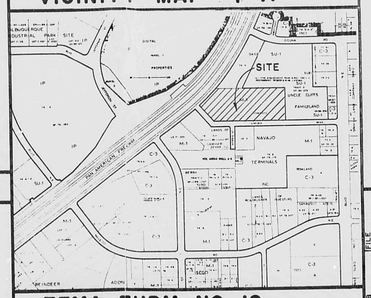
DRAINAGE DATA

CONDITION	STORM RETURN PERIOD	TREATMENT TYPE (TABLE 4)	TREATMENT AREA	EXCESS PRECIPITATION (TABLE 8)	PEAK RUNOFF (TABLE 9)	RUNOFF VOLUME	RUNOFF RATE
-	year	-	sq. ft.	in.	cfs/acre	cu. ft.	cfs
EXISTING	100	D	6000	2.12	4.70	1060	0.65
AND	10	D	6000	1.34	3.14	670	0.43
PROPOSED	2	D	6.00	0.79	1.86	395	0.26

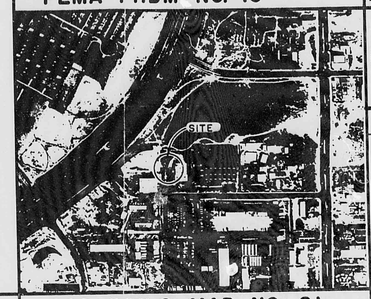
NOTES

1. The site is located in precipitation zone 2.
2. The site is completely developed at present. There is an approved drainage report for the site that was prepared by J.J. Bordenave and approved by the City on October 4, 1990.
3. The proposed construction will replace asphalt paving with building rooftop and no change in the runoff generated will be realized. In addition, the proposed construction will not interfere with existing runoff patterns.
4. The site is not located in a designated flood hazard zone per FEMA FIRM No. 16 dated October, 14, 1983.

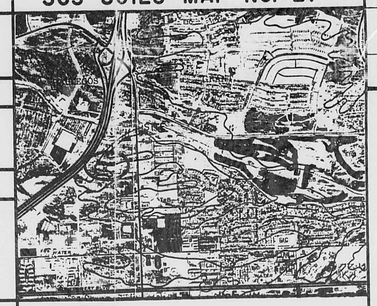
VICINITY MAP F-17



FEMA FHBM NO. 16



SCS SOILS MAP NO. 21



BORDENAVE DESIGNS
P.O. BOX 3175
ALBUQUERQUE, NM 87199-1194
(505) 823-1544

JOB 92.33 | FILE 9012
J.J.B. DESIGNED 10/92 DATE
M.E.T. DRAWN 11/92 DATE
J.J.B. REVIEWED 11/92 DATE

REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR 5110 NEW MEXICO JOHN J. BORDENAVE

NO.	DATE	REVISIONS REMARKS

SIZE B+

TITLE

FRIEDMAN WAREHOUSES ADDITION

SHEET OF

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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R# 25 DATE 3-19-02 OP EJP

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3/19/02
DIRECTOR

Roberta Duran
NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My commission expires 07/02/2004

D 24 C 20 B 16 A 12 | CITY OF ALBUQUERQUE C D

LEGEND

TBM	TEMPORARY BENCH MARK
FF	FINISH FLOOR
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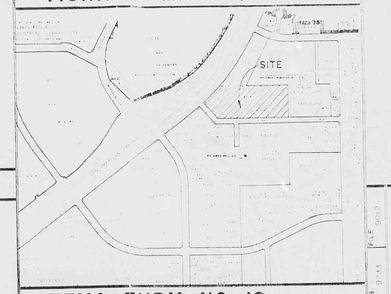
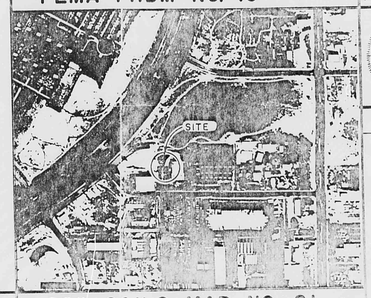
	EXISTING CONTOUR
	PROPOSED CONTOUR
XXX	EXISTING ELEVATION
XXX	PROPOSED ELEVATION
	AS-BUILT ELEVATION

VICINITY MAP F-17



FEMA FHBM NO. 16



LEGAL DESCRIPTION

LANDS OF FRIEDMAN

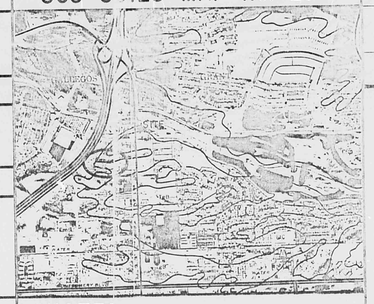
PERMANENT BENCHMARK

NMSHC BRASS CAP 1-25-17 ELEV 5171.10

TOPO SURVEY CERTIFICATION

TOPO SURVEY BY BORDENAVE DESIGNS SEPT 7, 1992

SCS SOILS MAP NO. 21



DRAINAGE DATA

CONDITION	STORM RETURN PERIOD (YR)	TREATMENT TYPE (TABLE 4)	TREATMENT AREA SQ. FT.	EXCESS PRECIPITATION (TABLE 8) IN.	PEAK RUNOFF (TABLE 9) CFS/ACRE	RUNOFF VOLUME CU. FT.	RUNOFF RATE CFS
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AND	10	D	6000	1.34	3.11	670	0.43
PROPOSED	2	D	6000	0.70	1.86	395	0.26

NOTES

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4. The site is not located in a designated flood hazard zone per FEMA FIRM No. 16 dated October, 15, 1981.

FRIEDMAN WAREHOUSES ADDITION

SHEET OF

BORDENAVE DESIGNS
P.O. BOX 91194
ALBUQUERQUE, NM 87199-1194
(505) 823-1232

REVISIONS	DATE	BY
	9-7-92	JJB
	10-27-92	JJB
	11-5-92	JJB
	12-3-92	JJB
	12-15-92	JJB
REVISED	1-5-93	JJB

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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Rs 35 DATE 5-17-93 OP 87

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DIRECTOR

NOTARY PUBLIC

MY COMMISSION EXPIRES 07/07/95

D 24 C 20 B 16 A 12

CITY OF ALBUQERQUE C D