HYDROLOGY D17/D14 3 PLANS

D17/D14

3 Plans

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

June 10, 1982

Ray Harrison & Assoc.
1517 Girard NE
Albuquerque, New Mexico 87106

REF: 4908 Hawkins St. NE (D17-D14)

Dear Mr. Harrison:

The referenced site is conceptually and conditionally approved, however, before final approval can be given and the Certificate of Occupancy released this office will require a comprehensive grading and drainage plan showing the proposed channel with all the calculations and details required for construction.

If you have any questions regarding the above, please feel free to call me at 766-7644.

Sincerely,

Fred J. Aguirre, PE
Civil Engineer

FJA/el

cc: Harlan Seeley, 4800 Hawkins NE
Drainage File
Reading File

RAY L. HARRISON & ASSOCIATES
CONSULTING ENGINEERS
1517-A GIRARD BLVD. NE
ALBUQUERQUE, NEW MEXICO 8710
(505) 265-4275

RECEIVED
SEP 15 1982
CITY ENGINEER

September 14, 1982

Chuck Easterling, Assistant City Engineer for Hydrology
City of Albuquerque
Box 1293
Albuquerque, NM 87103

Ref: Drainage Report, Specification Building for
Harlan Seeley, File D17-D14

Dear Chuck,

The referenced drainage report was submitted about 3/26/82 and was prepared from the criteria of a predesign conference with Brian Burnett that a rock pit pond would be required because the slope of the land would not allow a positive discharge and the Herkenhoff Drainage Report that allowed all the drainage to flow to the stree with out ponding would not work.

In early May I was verbally notified that adjustments were to be made that would allow the Herkenhoff Drainage Report to work and if a channel to the street with a filed easement was provided, no ponding would be required. A plan to provide an asphalt paved channel was submitted about 5/20/82 with an advance copy of the proposed easement provided a few days later. The reviewing Engineer notified me verbally that the easement had to be filed, I filed it on 5/25/82 and gave him a copy. The asphalt paved channel plan was verbally rejected and criteria for a concrete channel provided. This plan was submitted about 6/28/82 and given minor revisions as verbally requested on 7/16/82.

The week of 8/23/82 I was verbally notified that the plan should be modified to divert the drainage out the curb instead of the Driveway and the filed easement should be redone and refiled because of a minor mistake in the wording and Lot 12A should be shown on the easement. On 9/1/82 I was notified that an additional easement would be required on lots 13A and 13 B.

I request relief on this project in the assignment of a competent reasonable Engineer who will review the project and provide firm written comments so the project can be completed.

Ray L. Harrison
Ray L. Harrison

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

September 29, 1982

Mr. Ray Harrison
1517 Girard NE
Albuquerque, New Mexico 87106

Re: Specification Building for Harlan Seeley
(D17-D14)

Dear Mr. Harrison:

To summarize the results of our meeting on 9/24/81, the conditional approval granted on 6/1/82 will be satisfied with the submittal of the following information:

✓ 1. Submit an approved plan for the construction within City R/W.

2. Refile the private 10' drainage easement for Lots 13A, 13B, and 15 that includes the word "Lot".

3. Provide a private easement between Lots 13A and 12A for the proposed common swale on the property line.

4. In lieu of Item 3, eliminate the common swale between the lots and provide separate swales on each lot.

If you have any questions regarding these required items, please feel free to call me at 766-7644.

Sincerely,

Fred J. Aguirre, PE
Civil Engineer/Hydrology

FJA/el

cc: Drainage File
Reading File

RAY L. HARRISON & ASSOCIATES
CONSULTING ENGINEERS

1517-A GIRARD BLVD. NE
ALBUQUERQUE, NEW MEXICO 87106
(505) 265-4276

November 18, 1982

Mr. Fred Aguirre, PE
City of Albuquerque
P. O. Box 1293
Albuquerque, NM 87106

Re: Drainage Plan, Specification Building for Harlan Seeley D-17 B-14

Ref: Memorandum Fred Aguirre PE to Ray L. Harrison on referencd subject dated September 29, 1982.

Dear Mr. Aguirre,
The referenced memorandum requested additions and changes to the referenced drainage plan. The following are replys to those requests.

Item 1. Approved Special Order 19 drawings attached, the other set have been attached to the permit construction drawings.

Item 2. A new drainage easement form is attached for your approval. I will have it approved by planning and filed when you approve it.

Item 3 & 4 Lot 13 A and 13 B have been combined into one lot to satisify these items. Copy of filed lot line elimination attached.

Ray L Harrison
Ray L. Harrison

RECEIVED
NOV 19 1982
RECEIVED

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

November 30, 1982

Mr. Ray Harrison
1517 Girard NE
Albuquerque, New Mexico 87106

Re: Specification Building for Harlan Seeley
(File No. D17-D14)

Dear Mr. Harrison:

Your letter with attachments dated November 19, 1982 satisfies the comments in my letter to you dated September 29, 1982. However, before final approval of the drainage plan can be given, the revised plat must be approved by the Development Review Board. Please provide the required signature block on the plat before submitting to the Development Review Board for approval.

If you have any questions regarding the above, please feel free to call me at 766-7644.

Sincerely,

Fred J. Aguirre, PE
Civil Engineer/Hydrology

FJA/el

cc: Drainage File
Reading File

Enclosure

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DRAINAGE REPORT INFORMATION SHEET

PROJECT TITLE SPECIFICATION BUILDING FOR HARLAN SEELEY

ZONE ATLAS PAGE NO. D 17-D14 CITY ADDRESS 4908 Hawkins St. NE

LEGAL ADDRESS Lot 13A & 13 B Unit 4 Inter State Industrial Tract

ENGINEERING FIRM Ray Harrison & Assoc CONTACT Ray Harrison

ADDRESS 1517 A Girard NE 87106 PHONE 265 4276

OWNER Harlan Seeley CONTACT Harlan Seeley

ADDRESS 4800 Hawkins NE PHONE 345 9076

ARCHITECT/SURVEYOR Same CONTACT

ADDRESS PHONE

DATE SUBMITTED 3/26/82

BY Ray Harrison

RECEIVED

MAR 26 1982

ENGINEERING

RAY L. HARRISON & ASSOCIATES
CONSULTING ENGINEERS

1517-A GIRARD BLVD. NE
ALBUQUERQUE, NEW MEXICO 87106
(505) 265-4275

REVISED
DRAINAGE REPORT
SPECIFICATION BUILDING
FOR
HARLAN SEELEY

MAY 18, 1982

Ref: King and Brater
Handbook of Hydraulics

DESIGN CRITERIA: The sie was discussed with Fred Aguirre, Assist City Hydrologist.with the following criteria being established. No ponding is required if an outlet with easement will carry the 100 year storm to the street.

1. ENGINEER CERTIFIES: Engineer of record will certify drainage comcepts.

2. PLANNING HISTORY: There is no planning action in progress and the lots are zoned properly.

PROFESSIONAL CERTIFICATION:
Drainage report, survey, and grading plan by
Ray L. Harrison P. E. & L. S. 2198.
Architect, William Buckly

4. FLOOD HAZARD: Site was not included in the Master Drainage study, but was included in drainage study by Gorden Herkenhoff & Associates with no flood hazard,

5. WATERSHED SOILS: N/A

6. SOILS: N/A

7. WATERSHED AREA, OFFSITE: There is no offsite contributing watershed area to this tract.

8. STORM FLOWS OFFSITE: N/A.

9. FLOW DEPTH AND VELOCITY, OFFSITE: N/A.

10. OTHER CONDITIONS: By inspection there are no other conditions that affect drainage.

11. PROPOSED TREATMENT OF OFFSITE FLOWS: N/A.

12 ROW EASEMENTS, OFFSITE: N/A

RECEIVED
MAY 18 1982
RECEIVED

SPECIFICATION BUILDING
FOR
HARLAN SEELEY

13. FLOW VOLUMES AND RATES, ONSITE:

Undeveloped		
Lots 13A & 13B	51,800/43560 X 6 X .5 =	3.5 CFS
Lot 12A	25,946/43560 X 6 X .5 =	1.7 CFS
	Total	5.2 CFS

Developed
Combined Coeficient of runoff calculations
90% pave 10% Landscaped Area of Lots 12A, 13A, 13 B
.9 X 77,750 X .9 = 62,977
.1 X 77,750 X .4 = 3,110
Total66,087/77,750 = .85 ("C")
Q = 77,750/43560 X 6 X .85 = 9.1 CFS

14. FLOW DEPTH AND VELOCITY, ONSITE: There are no major drainage channels on this site.

15. PROPOSED TREATMENT, ONSITE: The drainage from lots 12A, 13A, 13Bwill be diverted onto lot 15B and conveyed to the street as show on the attached drawing. The channel to drain the lots will be a v shaped swale 10 feet wide and 0.5 feet deep with a 1% slope.

e = 5' D = 0.5' s = .01 n = .016

z = 5/0.5 = 10

$$K = \frac{1.486\ (10)^{5/3}}{[2(10^2 + 1)^{\frac{1}{2}}]^{2/3}} = 9.3 \quad \text{Formula 7-37}$$

$$Q = \frac{9.3\ (0.5)^{8/3}\ .01^{\frac{1}{2}}}{.016} = 9.1 \text{ CFS} \quad \text{Formula 7-38}$$

Item 13. Developed Q = 9.1 CFS
Designed channel will carry 100 yr flow.

Lot 15B is graded such that there will be no contribution to the channel from the lot except for that amount of rain that falls on the channel.

16. ROW EASEMENTS: The necessary easements to complete this plan are being prepared and will be submitted as soon as available.

RAY L. HARRISON

RAY L. HARRISON & ASSOCIATES
CONSULTING ENGINEERS

1517-A GIRARD BLVD. NE
ALBUQUERQUE, NEW MEXICO 87106
(505) 265-4276

ADDENDUM

DRAINAGE REPORT

SPECIFICATION BUILDING
FOR
HARLAN SEELEY

D-17
6/18/82

Drainage outlet channel design, plot plan and profile attached.

Drainage area Lots 12A, 13A, 13B, 288 X 177.7
77,760 sq. ft./4356 = 1.79 AC
90 paved 10% landscaped Combined "C" = .85

Q = 1.79 X 6 X .85 = 9.1 CFS

Channel

D = .75' b = 2.5' D/b = .3 Table 7-10 K & B
K = 4.44 s =.01 (1%) n = .018 Rough finish Concrete

$$Q = \frac{K\ D^{8/3}\ s^{\frac{1}{2}}}{n} = \frac{4.44\ .75^{8/3}\ s^{\frac{1}{2}}}{.018} = 11.4 \text{ CFS}$$

Channel has sufficient capicity

Ray L. Harrison

D17-D14

RECEIVED
JUN

RAY L. HARRISON & ASSOCIATES
CONSULTING ENGINEERS

1517-A GIRARD BLVD. NE
ALBUQUERQUE NEW MEXICO 87106
(505) 265-4276

DRAINAGE REPORT
SPECIFICATION BUILDING
FOR
HARLAN SEELEY
4809 Hawkins St. NE

Design Criteria: The site was discussed with City Engineer, Hydrology. The Gorden Herkenhoff & Associates Drainage Report which states that all drainage can flow into the street is discounted and ponding is required.

1. ENGINEER CERTIFIES: Engineer will certify drainage concepts.

2. PLANNING HISTORY: No planning action in progress, lots are zone properly.

3. PROFESSIONAL CERTIFICATION:
   Drainage report by Ray L. Harrison P. E. 2198
   Survey by Ray L. Harrison L. S. 2198
   Grading Plan by Ray L. Garrison P. E. 2198
   Architect William Buckley

4. FLOOD HAZARD: Site not included in Master Drainage Study, site shown in drainage study by Gorden Herkenhoff & Associates no flood hazard.

5. WATERSHED SOILS: N/A

6. SOILS: No ponding within 15' of building.

7. WATERSHED AREA, OFFSITE: There is no contributing watershed area to this tract.

8. STORM FLOWS, OFFSITE: N/A

9. FLOW DEPTH AND VELOCITY, OFFSITE: N/A

10 OTHERCONDITIONS: By inspection there are no other conditions that affect site drainage.

11. PROPOSED TREATMENT: N/A

12 ROW EASEMENTS: N/A

RECEIVED
MAR 26 1982
ENGINEERING

13. FLOW VOLUMES AND RATES, ONSITE:

Undeveloped
51, 800 Sq. ft./43560 X 6 X .5 = 3.57 CFS

Developed		
impervious	28,650/43560 X 6 X .9 =	3.55 CFS
unpaved	23,150/43560 X 6 X .5 =	1.6 CFS
Total		5.15 CFS

14. FLOW DEPTH AND VELOCITY, ONSITE: There are no major flow channels on site.

15. PROPOSED TREATMENT, ONSITE:

A. The drainage from most of the tract will be ponded in a combined rock pit and surface storage pond, because there is an eight foot elevation drop from the front of the property to the rear, with no place to put positive drainage or an emergency spillway.

B. Pond Volume Calculations

Ponding required
2.2/12 X 28,650 X .9 = 4,730 cu. ft. (impervious)
2.2/12 X 21,150 X .5 = 2120 cu ft. (unpaved)
Total Required 6,850 Cu. Ft.
Ponding Furnished (see section 1-1, Grading Plan)
Rock pit storage 2,100 cu ft.
Open storage 4,950 cu ft.
Total 7,050 cu ft

2. No positive discharge provided.

Rock pit storage
.7/12 X 28650 X .9 = 1504 Cu. ft. (impervious)
.7/12 X 23150 X .5 = 675 cu ft (unpaved)
Total 2180 Cu Ft
provided 2100 Cu ft.

3. No emergency spillway provided, 100 year storm is ponded

4. N/A 5. N/A

6. Covenant attached

7. N/A 8. N/A

C. Quantification

Undeveloped 100 year flow (item 13) 3.57 CFS
developed 100 year flow
2000sq. ft./43560 X .6 X .9 = .24 CFS

Ray L. Harrison
P. E. & L. S. 2198

RECEIVED
MAR 26 1982
ENGINEERING

13. FLOW VOLUMES AND RATES, ONSITE:

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Ray L. Harrison
P. E. & L. S. 2198

RECEIVED
MAR 26 1982
ENGINEERING

RAY L. HARRISON & ASSOCIATES
CONSULTING ENGINEERS

1517-A GIRARD BLVD. NE
ALBUQUERQUE, NEW MEXICO 87106
(505) 265-4276

DRAINAGE REPORT
SPECIFICATION BUILDING
FOR
HARLAN SEELEY
4809 Hawkins St. NE

Design Criteria: The site was discussed with City Engineer, Hydrology. The Gorden Herkenhoff & Associates Drainage Report which states that all drainage can flow into the street is discounted and ponding is required.

1. ENGINEER CERTIFIES: Engineer will certify drainage concepts.

2. PLANNING HISTORY: No planning action in progress, lots are zone properly.

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   Drainage report by Ray L. Harrison P. E. 2198
   Survey by Ray L. Harrison L. S. 2198
   Grading Plan by Ray L. Garrison P. E. 2198
   Architect William Buckley

4. FLOOD HAZARD: Site not included in Master Drainage Study, site shown in drainage study by Gorden Herkenhoff & Associates no flood hazard.

5. WATERSHED SOILS: N/A

6. SOILS: No ponding within 15' of building.

7. WATERSHED AREA, OFFSITE: There is no contributing watershed area to this tract.

8. STORM FLOWS, OFFSITE: N/A

9. FLOW DEPTH AND VELOCITY, OFFSITE: N/A

10 OTHERCONDITIONS: By inspection there are no other conditions that affect site drainage.

11. PROPOSED TREATMENT: N/A

12 ROW EASEMENTS: N/A

RECEIVED
MAR 26 1982
ENGINEERING

CITY OF ALBUQUERQUE — CODE ADMINISTRATION DIVISION — AND ON PERMIT NUMBER

DATE 6/1/82

This Permit valid only for items checked and paid for below.

State: 854211AA

City: 141001

Treasury Division Validation

13800

APPLICATION AND/OR PERMIT FOR:
1. NEW BUILDING 2. OTHER 3. ADDITION
4. ALTERATION 5. REPAIR 6. REMOVE

BUILDING ADDRESS 4908 Hawkins N.E. ZIP CODE

LOT NUMBER 13 BLOCK NUMBER Unit 5 STREET SEQ 25428 BASZ 6053

SUBDIVISION Interstate Ind. Tract XL 82-17

OWNER/PERMITTEE
NAME Harlan Seeley
ADDRESS
CITY AND STATE ZIP CODE
PHONE

ARCHITECT/ENGINEER
NAME Bill Buckley
ADDRESS
CITY AND STATE ZIP CODE
PHONE 255-9196

CONTRACTOR
NAME New Venture, LTD.
ADDRESS 3201 4th St. N.W.
CITY AND STATE Albuq. N.M. ZIP CODE
STATE LICENSE NO 14037 PHONE 345-8216

NO. OF STORIES	LAND USE CODE	TOT. SQ. FT. FLOOR AREA	VALUATION OF WORK
—	0221	8080	$120,000-00

APARTMENT BLDG.-NO. OF BLDGS. ~~UNITS~~ | LOT ACREAGE | TRANSIENT MOTEL OR HOTEL-NO. OF UNITS

CITY ZONE M-1 | ZONING MAP D-17 | PROPERTY NEW CODE

OWNERSHIP: 1 PUBLIC 2 PRIVATE
WATER SUPPLY: 1 PUBLIC 2 PRIVATE
SEWAGE DISPOSAL: 1 PUBLIC 2 PRIVATE

TYPE OF HEATING FUEL: 1 GAS 2 ELECT 3 OIL 4 COAL 5 SOLAR 6 OTHER
AIR CONDITIONING: 1 EVAP 2 REFRIG

		FEES	
A	APPLICATION—PLAN CHECK FEE		
B	BUILDING	241	50
C	RETAINING WALLS		
D	WALLS		
E	FENCES		
F	DEMOLITION		
G	SWIMMING POOL		
H	SIGNS/BILLBOARDS		
J	FOUNDATIONS		
K	UNIFORM BUILDING CODE BOOK		
L	ALBUQ. AMENDMENTS TO UBC		
M	UNIFORM SIGN CODE		
N	DWELLING CODE BOOK		
P	CODE SUPPLEMENT		
Q	SPECIAL TYPE INSPECTION		
R	RE-INSPECTION		
S	PARK DEDICATION FEE		
T	ELEVATOR		
U	DUPLICATE		
V	RENEWAL		
W	PRELIMINARY PLAN CHECK		
X	CHANGE TO PLANS		
Y	OTHER - SPECIFY		
Z	CREDIT		
	TOTAL FEES	241	50

DESCRIPTION: Speculative Bldg. Permit Comm.

REFERENCE: 12996

$156.93

USE OF BUILDING: 1 PUBLIC 2 COMMERCIAL 3 MULTI-RESIDENTIAL 4 SINGLE RESIDENTIAL

OCCUPANCY GROUP B-C1 | TYPE OF CONSTRUCTION II-N

NOTICE SEPARATE PERMITS ARE REQUIRED FOR ELECTRICAL, PLUMBING, HEATING, VENTILATING OR AIR CONDITIONING. THIS PERMIT BECOMES NULL AND VOID IF WORK OR CONSTRUCTION AUTHORIZED IS NOT COMMENCED WITHIN 120 DAYS OR IF CONSTRUCTION OR WORK IS SUSPENDED OR ABANDONED FOR A PERIOD OF 120 DAYS AT ANY TIME AFTER WORK IS COMMENCED.

"I hereby acknowledge that I have read this application and state that the above is correct and agree to comply with all city ordinances and state laws regulating building construction or the phase of work for which this permit is being secured as indicated above. The Plan Check Base Fee (application), however, is not a permit. The issuance of a permit shall not prevent the Code Administration Division from thereafter requiring correction of errors."

SIGNATURE BY

NOTICE ▷ THIS PERMIT NOT VALID UNTIL FEE IS PAID

ALBUQUERQUE COMPREHENSIVE ZONING ORDINANCE

ZONE M-1 ATLAS D-17

USE 8000 ft SPC Bldg / Office / Shop

Z/Z.A. VL-82-12 or SIZE

APPROVED BY Date 3/5/82

REJECT - ZONING

(1) Bike Rack not shown

(2) Landings Ramps not shown

(3) Sta 3 Copies of landscaping plan must be approved and signed

Rejected By: Date 4/9/82

Approved By: Date 5/5/82

CONDITIONAL APPROVED FOR DRAINAGE

6-1-82
DATE

SIGNATURE TITLE

ADVISE DRAINAGE INSPECTOR WHEN GRADING EXECUTED

Pending receipt of a comprehensive drainage plan, including the channel with calculations and grades

VL No. VL 82-12

82 18378

TO WHOM IT MAY CONCERN:

389

Lot(s) 13A and 13B Block : Unit 5

Subdivision or Addition: Interstate Industrial Tract

Filed in the Office of the County Clerk of Bernalillo County, New Mexico on

SP-78-563.

I (We) Harlan Seeley am (are) the sole owner(s) of the above said property. I (We) desire to vacate the platted lot line(s) between these lots and that the combined lots also be known as Lot 13. However, I (We) am (are) not applying for any change in the platted easements.

Harlan W. Seeley

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO)

On this 5 day of April 19 82, before me personally appeared to me known to be the person ~~(or persons)~~ described in and who executed the foregoing instrument, and acknowledged that he ~~(or they)~~ executed the same as his ~~(or their)~~ free act and deed.

OFFICIAL SEAL
Signature Sylvia White
SYLVIA WHITE
Notary Public
My Commission Expires 05-21-82

My Commission Expires on

Approved:

V. Hayes by Rep Kin 4/8/82 B-17

City Planner or Authorized Representative Date

STATE OF NEW MEXICO
COUNTY OF BERNALILLO
FILED FOR RECORD

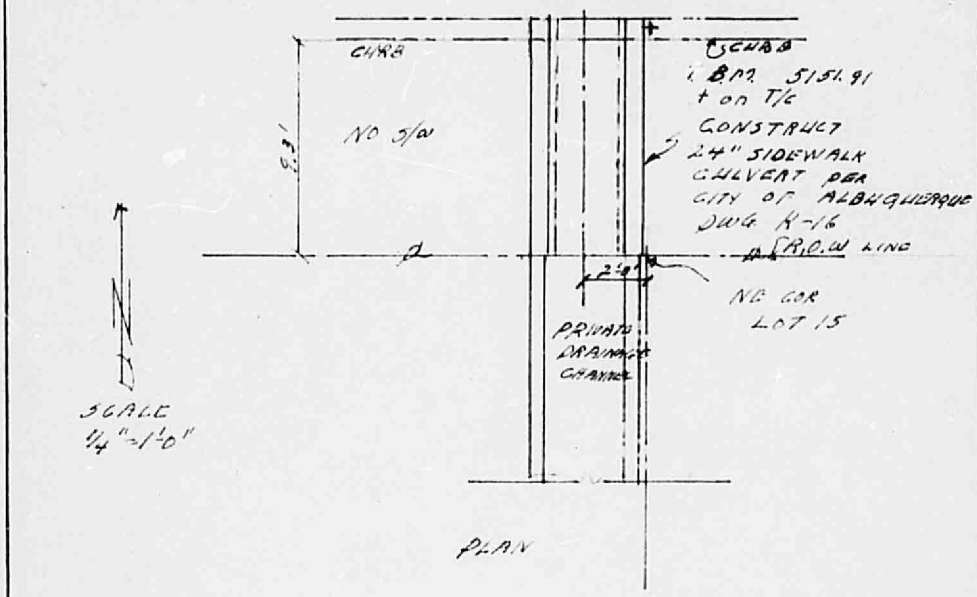
'82 APR -8 AM 10:05

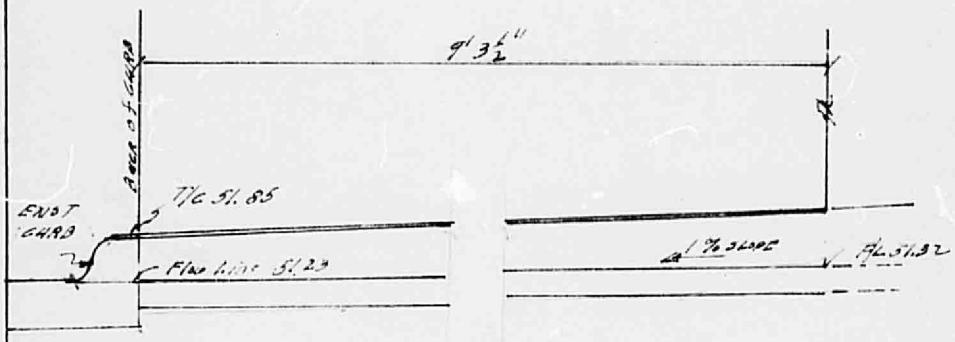
Mar 922 389
BK. PG.

TERRY C. CULP
CO. CLERK & RECORDER
DEPUTY
Peter West

CITY OF ALBUQUERQUE

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY





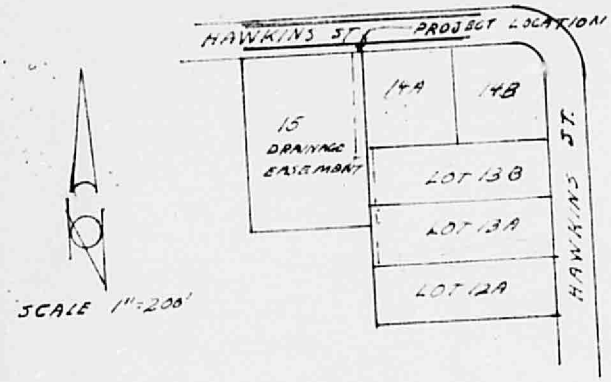
℄ CROSS SECTION
SCALE 1/4" = 1'0"

B-56
4800 HAWKINS ST NE

APPROVALS	NAME	DATE	TITLE: INTERSTATE INDUSTRIAL TRACT, LOT 15 24" SIDEWALK CULVERT AND STEEL PLATE COVER
A.C.E./DESIGN	G. Kilbch	21 Oct 82	
INSPECTOR			PERMIT NO.
A.C.E./FIELD			SHEET 2 OF 2. MAP NO. D-17

CITY OF ALBUQUERQUE

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY



LOCATION PLAN
D-17

Owner:
Harland Seeley
4800 Hawkins NE
Albuquerque, NM 87113
345 9076

RAY HARRISON & ASSOCIATES
1517 A Girard NE
Albuquerque, NM 87106
265 4276

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. _____"
3. Two working days prior to any excavation, contractor must contact Line Locating Service, 765-1234, for location of existing 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.
5. Backfill compaction shall be according to COLLECTOR street use.

B-56
4800 HAWKINS ST NE

APPROVALS	NAME	DATE	TITLE: INTERSTATE INDUSTRIAL TRACT LOT 15 24"SIDEWALK CULVERT AND STEEL PLATE COVER	
A.C.E./DESIGN	[illegible]	21 Oct 82		
INSPECTOR			PERMIT NO.	MAP NO. D 17
A.C.E./FIELD			SHEET 1 OF 2	