



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

KEN SCHULTZ
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DEPUTY CAO
PUBLIC SERVICES

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DEPUTY CAO
DEVELOPMENT & ENTERPRISE SERVICES

April 12, 1989

Elvidio Diniz
Resource Technology, Inc.
2129 Osuna Road, NE
Albuquerque, New Mexico 87113

RE: REVISED DRAINAGE PLAN FOR LOT 15 OF RICHFIELD INDUSTRIAL PARK
(C-17/D2A3) REVISION DATE OF APRIL 3, 1989

Dear Mr. Diniz:

Based on the information provided on your resubmittal of April 4, 1989,
the above referenced plan is approved for Building Permit.

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

If I can be of further assistance, please feel free to call me at
768-2650.

Cordially,

Bernie J. Montoya
Bernie J. Montoya, C.E.
Engineering Assistant

BJM/bsj
(WP+1055)

DRAINAGE INFORMATION SHEET

PROJECT TITLE: RICHFIELD INDUSTRIAL PARK ATLAS/DRNG. FILE #: C-17/D2A3LEGAL DESCRIPTION: LOT 15 RICHFIELD INDUSTRIAL PARK

CITY ADDRESS: _____

ENGINEERING FIRM: RESOURCE TECHNOLOGYCONTACT: Ray Gomez2129 OSUNA NE SUITE 2AADDRESS: ALB, NM 87113PHONE: 345-3115

OWNER: _____

CONTACT: _____

ADDRESS: _____

PHONE: _____

ARCHITECT: _____

CONTACT: _____

ADDRESS: _____

PHONE: _____

SURVEYOR: _____

CONTACT: _____

ADDRESS: _____

PHONE: _____

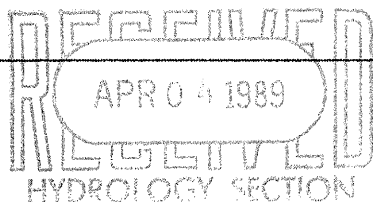
CONTRACTOR: _____

CONTACT: _____

ADDRESS: _____

PHONE: _____

PRE-DESIGN MEETING:

☐ YES☒ NO☐ COPY OF CONFERENCE RECAP
SHEET PROVIDED

DRB NO. _____

EPC NO. _____

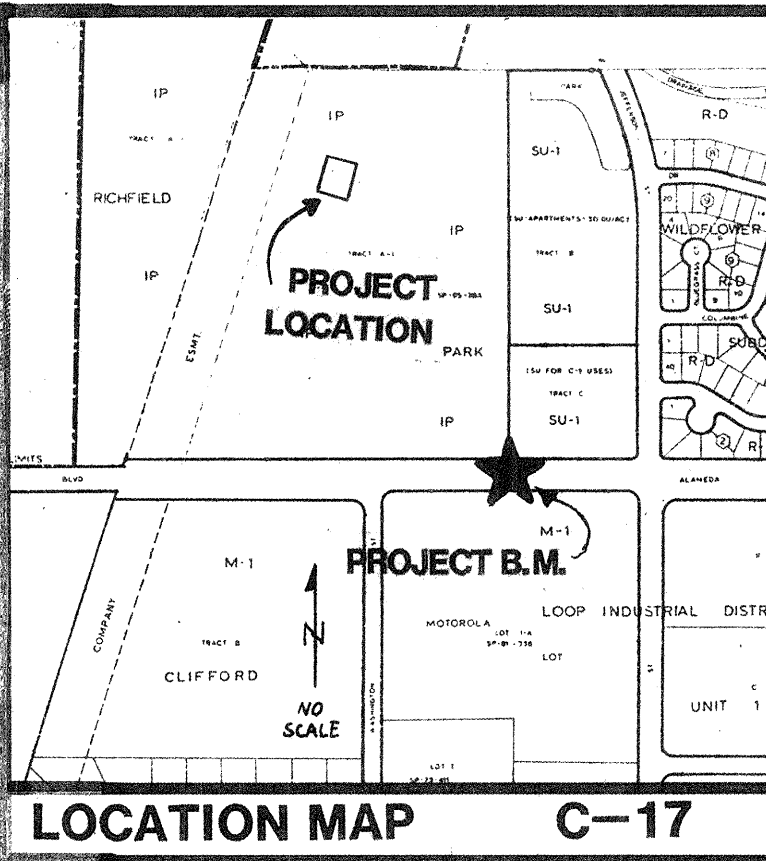
PROJ. NO. _____

TYPE OF SUBMITTAL:

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

CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT APPROVAL☐ PRELIMINARY PLAT APPROVAL☐ SITE DEVELOPMENT PLAN APPROVAL☐ FINAL PLAT APPROVAL☐ BUILDING PERMIT APPROVAL☐ FOUNDATION PERMIT APPROVAL☐ CERTIFICATE OF OCCUPANCY APPROVAL☐ ROUGH GRADING PERMIT APPROVAL☒ GRADING/PAVING PERMIT APPROVAL☐ OTHER _____ (SPECIFY)DATE SUBMITTED: 4-4-89BY: Ray Gomez



LEGAL DESCRIPTION: LOT 15, RICHFIELD PARK SUBDIVISION

LEGEND	
	PROPOSED BUILDING
	EXISTING SPOT ELEVATION
	TRANSITION AREA
	FLOW DIRECTION
	NEW SPOT ELEVATION
	DRAINAGE DIVIDE
	HEADER CURB

GENERAL NOTES

SITE DESCRIPTION
 Present - The site, Lot 15, is currently undeveloped and over-grown with natural vegetation, with a general slope from East to West. Washington Street is a paved street with curb and gutters along the west side of this lot.
 Proposed - Proposed design will allow on-site run-off to discharge freely into Washington Street via swales in the parking lot. Off-site flows have been diverted around the perimeter of the study area.

FLOOD HAZARD ZONE - Zone C

SOIL TYPE Embudo gravelly fine sandy loam (EmB)
 Hydrologic Soil Group B

DRAINAGE AREA Rectangular shaped lot consisting of 21,750 s.f.

OFF-SITE DRAINAGE
 Lot 20 drains westward to an asphalt/concrete swale along the West edge of Lot 20 and the North edge of Lot 14. This swale discharges to Washington Street. Only the South half of Lot 19 could drain onto the subject lot. A concrete header curb will divert this run-off to the concrete/asphalt swale on Lot 20.

HYDROLOGY

TIME OF CONCENTRATION (Tc)
 Length = 227 ft.
 Slope = 1.67 %
 Tc = 2.46 min.
 V = 1.54 ft./sec.
 Adjusted V = 0.80 ft./sec.
 Adjusted Tc = 4.73 min.
 Assume Tc = 10 min.

Six Hour Rainfall Depth from NOAA Atlas 2, Vol. IV
 10 Year = 1.5 in.
 100 Year = 2.3 in.

Peak Rainfall Intensity
 10 Year = 3.26 in./yr.
 100 year = 4.99 in./yr.

Run-off Coefficients - "C" in Rational Formula
 Existing Undeveloped = 21,750 s.f.; C = 0.40
 Proposed Roofs = 5,555 s.f.; C = 0.80
 Proposed Streets, Drives and Walks = 14,817 s.f.; C = 0.95
 Proposed Lawns and Landscaping = 1,378 s.f.; C = 0.25
 Proposed Condition Weighted = 21,750 s.f.; C = 0.89

Run-off Curve Number (CN)
 Existing Condition Imperviousness = 10 %
 Existing Condition CN = 70
 Proposed Condition Imperviousness = 94 %
 Proposed Condition CN = 92

RESULTS	Return Period	Existing Condition	Proposed Condition
Run-off Volume	10 Year	181 c.f.	1450 c.f.
	100 Year	725 c.f.	2538 c.f.
Run-off Rates	10 Year	0.7 c.f.s.	1.5 c.f.s.
	100 Year	1.0 c.f.s.	2.2 c.f.s.

PROJECT BM: LOCATED ON MEDIAN OF ALAMEDA ST. (8 C17)
 ELEV. 5111.03

RECEIVED
 APR 4 1989
 HYDROLOGY SECTION

DESIGNED BY: R.G.	RICHFIELD INDUSTRIAL PARK LOT 15 GRADING and DRAINAGE PLAN
DRAWN BY: B.G.	
CHECKED BY: E.D.	
DATE: MAR. 1989	

Resource Technology, Inc.
 ENGINEERS & ENVIRONMENTAL SCIENTISTS
 2129 OSUNA NE - SUITE 2 A, ALBUQUERQUE, NEW MEXICO 87113
 TELEPHONE - (505) 455-3115

LOCATION MAP C-17

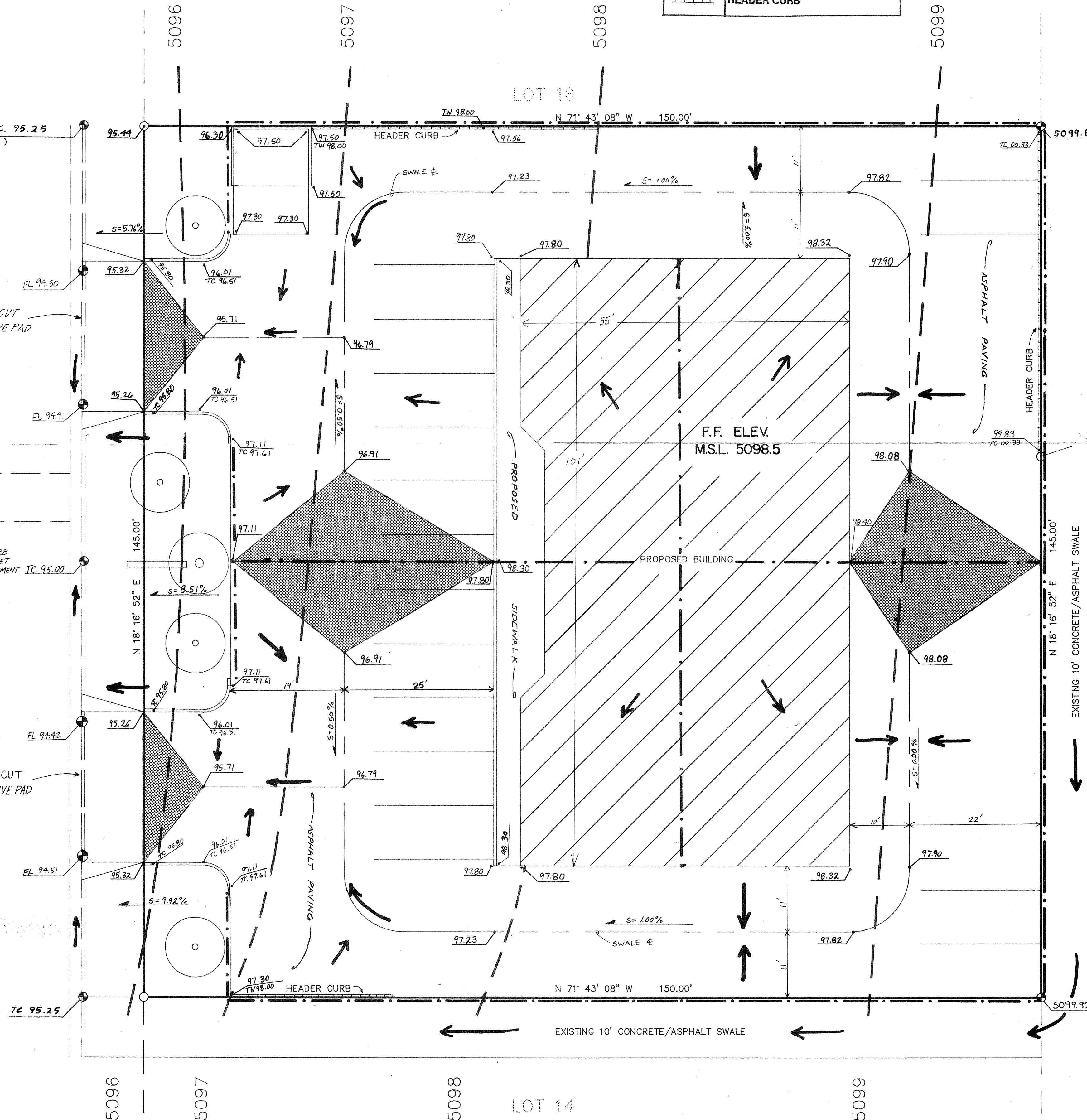
SCALE
 1" = 10'

8' CONCRETE VALLEY GUTTER

NOTE: ALL EXPOSED ENDS OF CURB WILL HAVE A 1" TRAPER TO MEET ADJACENT SIDEWALK OR PAVEMENT TO 95.00 GRADES.

CURB CUT FOR DRIVE PAD

WASHINGTON STREET



LOT 19

LOT 20

LOT 14

File C17/D003