



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 27, 1993

Frank Lovelady
Lovelady & Associates
7408 Morrow Ave. NE
Albuquerque, NM 87112

RE: ENGINEER CERTIFICATION FOR SEIDEL ADDITION (C17-D1U8) CERTIFICATION
STATEMENT DATED 4/19/93.

Dear Mr. Lovelady:

Based on the information provided on your April 19, 1993 submittal, Engineer
Certification for the above referenced site is acceptable.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Bernie J. Montoya
Bernie J. Montoya, CE
Engineer Associate

BJM/d1/WPHYD/7445

xc: Alan Martinez
File

PUBLIC WORKS DEPARTMENT

PROJECT TITLE: SEIDEL ADDITION ZONE ATLAS/DRNG. FILE #: C-17/0148
 LEGAL DESCRIPTION: LOT 26 of the Clifford Industrial Park,
 CITY ADDRESS: 8436 WASHINGTON PL NE.
 ENGINEERING FIRM: Lovelady & Associates CONTACT: Frank Lovelady
 ADDRESS: 7408 Morrow Ave. NE 87110 PHONE: 883-7973
 OWNER: SEIDEL AMUSEMENT MACHINE CO. CONTACT: JEFF FOSS
 ADDRESS: 7808 JEFFERSON NE PHONE: 883-~~9100~~ 9100
 ARCHITECT: Dura-Bilt Products Inc CONTACT: JEFF FOSS
 ADDRESS: 7808 JEFFERSON NE PHONE: 883-9100
 SURVEYOR: LOVELADY & ASSOCIATES CONTACT: FRANK LOVELADY
 ADDRESS: 7408 MORROW NE 87110 PHONE: 883-7973
 CONTRACTOR: Dura-Bilt Products CONTACT: JEFF FOSS
 ADDRESS: 7808 JEFFERSON NE PHONE: 883-9100

PRE-DESIGN MEETING:

☒ YES
☐ NO
☒ COPY OF CONFERENCE RECAP
 SHEET PROVIDED W/ORIGINAL
SUBMITTAL

TYPE OF SUBMITTAL:

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

DRB NO. _____

EPC NO. _____

PROJECT NO. _____

APR 19 1993

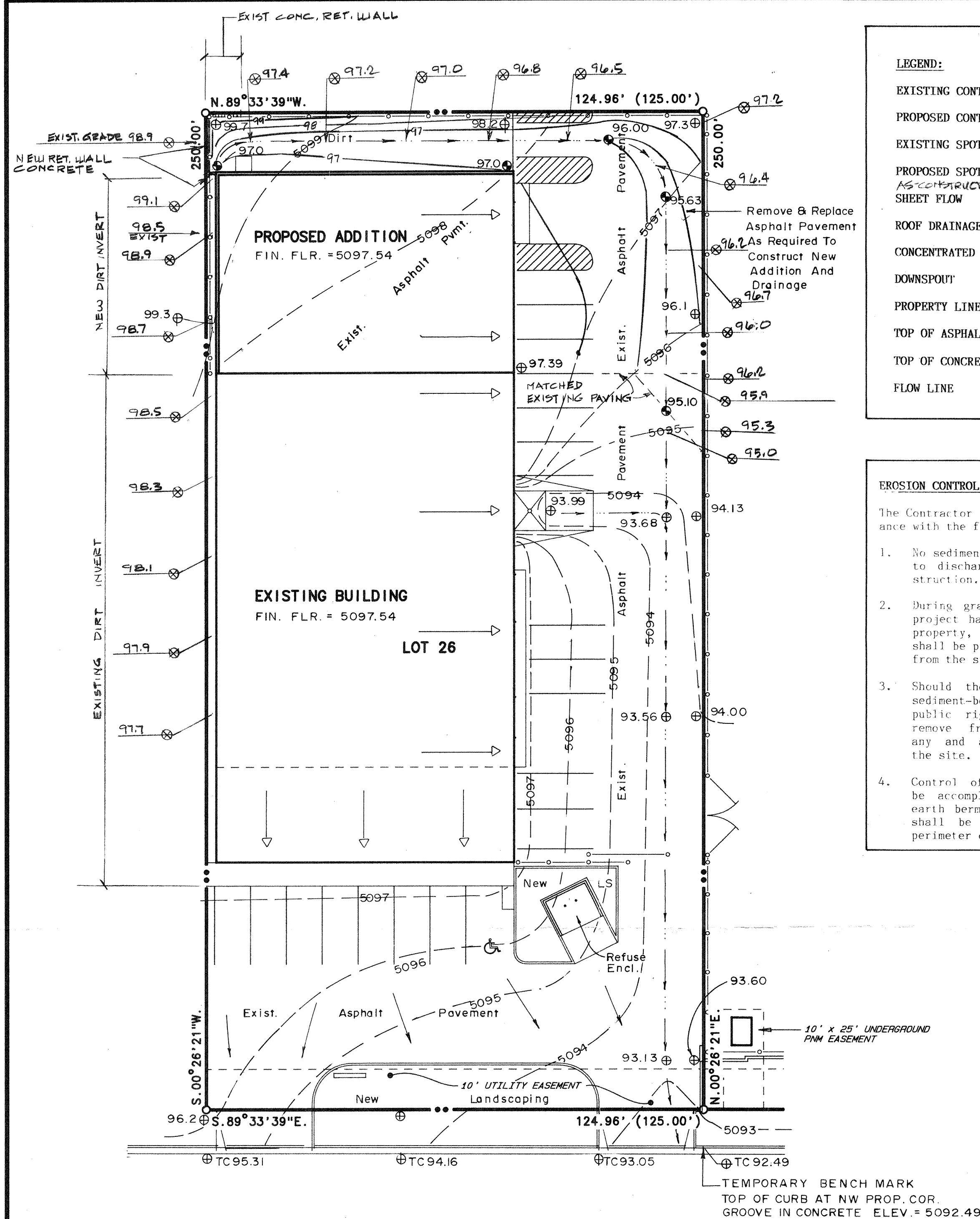
HYDROLOGY DIVISION

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

DATE SUBMITTED: April 19, 1993BY: Frank D. Lovelady
 Frank D. Lovelady, P.E.

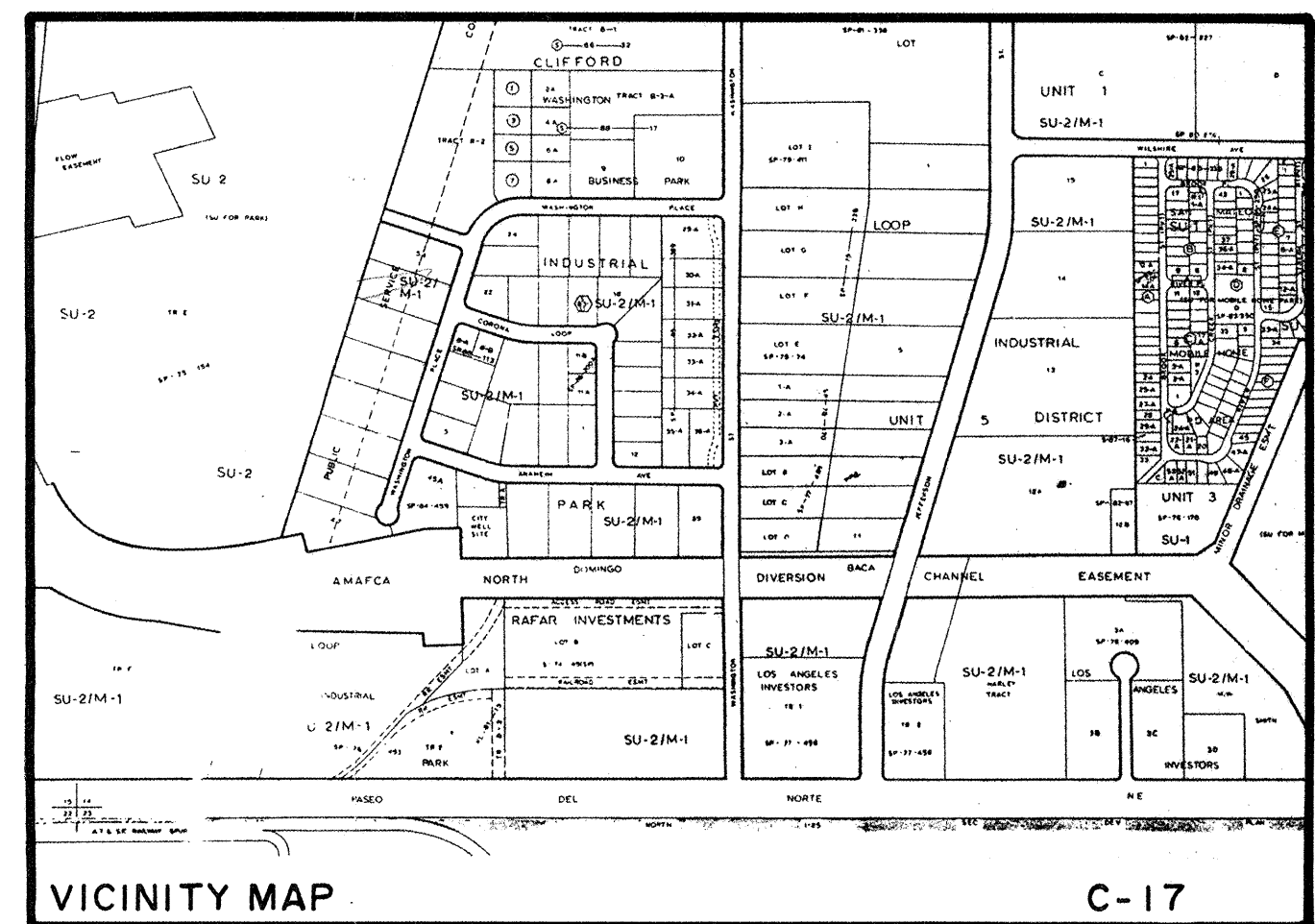
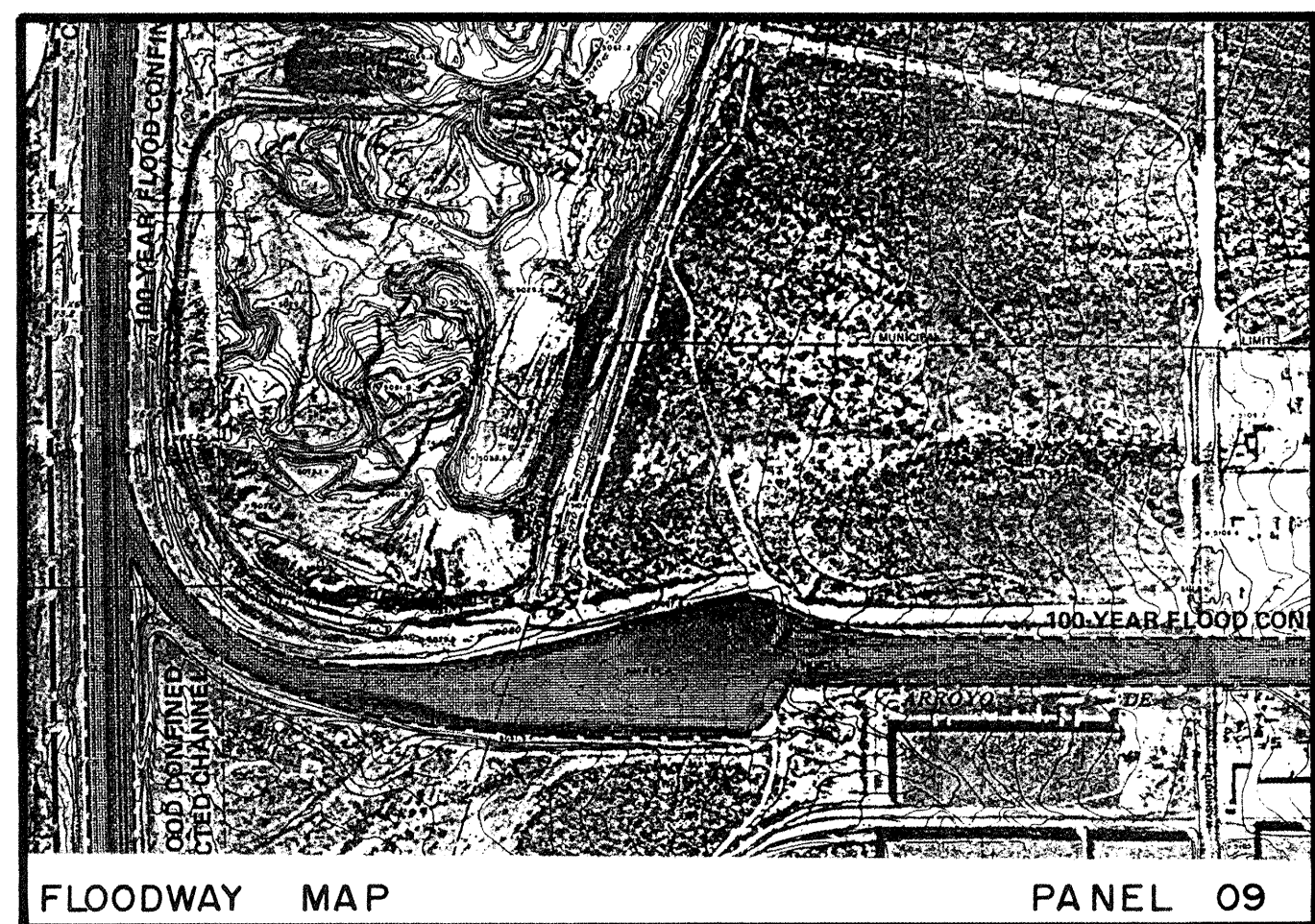
OTHER _____ (SPECIFY)



LEGEND:

EXISTING CONTOUR	— 5095 —
PROPOSED CONTOUR	— 95 —
EXISTING SPOT ELEVATION	⊕
PROPOSED SPOT ELEVATION	⊕
AS-CONSTRUCTED SPOT ELEV SHEET FLOW	→
ROOF DRAINAGE	←
CONCENTRATED FLOW	←
DOWNSPOUT	⊙ DS
PROPERTY LINE	— ● —
TOP OF ASPHALT TA	—
TOP OF CONCRETE TC	—
FLOW LINE FL	—

- EROSION CONTROL NOTES:**
- The Contractor shall be responsible for compliance with the following:
- No sediment-bearing water shall be allowed to discharge from the site during construction.
 - During grading operations and until the project has been completed, all adjacent property, rights-of-way, and easements shall be protected from flooding by runoff from the site.
 - Should the Contractor fail to prevent sediment-bearing water from entering public right-of-way, he shall promptly remove from the public right-of-way, any and all sediment originating from the site.
 - Control of sediment-bearing waters will be accomplished by use of a compacted earth berm of adequate height. The berm shall be located along the downstream perimeter of the property.



DRAINAGE

REFERENCES:

- Hydrology File No. C17-D1A, Plans and Report by Bohannon-Huston.
- Hydrology File No. C17-D1FF, Logan/Gross and Associates, Inc. Approved 7/22/87.

EXISTING DRAINAGE CONDITIONS:

The site is located in Clifford Industrial Park on Washington Place NE, the fourth lot west of Washington Street, N.E. Washington Place is paved with standard curb and gutter. In accordance with the drainage report for Clifford Industrial Park Phase II, no off-site flow is involved with the site. No flood hazards exist downstream. The existing roof slopes to the existing asphalt parking lot which is swaled to drain to Washington Place. Reference 2 includes both Lots 25 and 26. Since no changes are being made to Lot 25, it is not shown on this plan.

PROPOSED DRAINAGE CONDITIONS:

It is proposed to construct an addition to the existing building as shown. The roof will slope to the west and the new asphalt pavement will be constructed with a swale to drain into the existing asphalt swale.

SOIL INFORMATION:

(Refer to "Soil Survey of Bernalillo County", June 1977). Soil is EmB, Embudo gravelly fine sandy loam, 0 to 5 percent slopes, Hydrologic Soil Group "B".

FLOODWAY MAP:

The Floodway Map inset shows the site depicted on the FEMA Floodway Map. The site does not lie within or adjacent to any designated 100-year flood zones and all downstream flood zones are confined to constructed channels.

RAINFALL, 100-YEAR, 6-HOUR:

(Refer to D.P.M., Plate 22.2 D-1) $R_6 = 2.2$ inches.

TIME OF CONCENTRATION:

(Use ten (10) minutes, minimum time of concentration).

RAINFALL INTENSITY:

(Refer to D.P.M., Plate 22.2 D-2).
 $I = R_6 \times 6.84 \times T_c^{-0.51} = 2.2 \times 6.84 \times 10^{-0.51} = 4.65$ inches per hour

SITE IMPERVIOUSNESS:

Surface Type	"C"	"CN"	Direct Runoff	Site Existing	Areas (Sq. Ft.) Developed
Building	0.90	98	2.00	9150	12883
Asphalt/ Concrete	0.95	98	2.00	13008	15954
Gravel or Dirt	0.40	82	0.85	8312	1309
Landscaping	0.25	61	0.20	770	1094
Totals				31240	31240

CALCULATIONS

WEIGHTED "C" FACTORS:

Existing Conditions:
 $C_w = (9150 \times 0.90 + 13008 \times 0.95 + 8312 \times 0.40 + 770 \times 0.25) / 31240 = 0.77$

Proposed Conditions:
 $C_w = (12883 \times 0.90 + 15954 \times 0.95 + 1309 \times 0.40 + 1094 \times 0.25) / 31240 = 0.88$

WEIGHTED DIRECT RUNOFF:

Existing Conditions:
 $DR_w = (9150 + 13008)(2.0) + (8312 \times 0.85) + (770 \times 0.2) / 31240 = 1.65$ inches

Proposed Conditions:
 $DR_w = (12883 + 15954)(2.0) + (1309 \times 0.85) + (1094 \times 0.20) / 31240 = 1.89$ inches

PEAK DISCHARGE, 100-YEAR AND 10-YEAR:

Use Rational Method: $Q_{100} = C_w I A$; $Q_{10} = 0.657 Q_{100}$

Existing Conditions:
 $Q_{100} = (0.77 \times 4.65) (31240 / 43560) = 2.57$ cfs; $Q_{10} = 0.657 \times 2.57 = 1.69$ cfs

Proposed Conditions:
 $Q_{100} = (0.88 \times 4.65) (31240 / 43560) = 2.93$ cfs; $Q_{10} = 0.657 \times 2.93 = 1.93$ cfs

VOLUME, 100-YEAR, 6-HOUR:

Existing Conditions:
 $V_{100} = (DR_w \times \text{Area}) / 12$; $V_{10} = 0.657 (V_{100})$

Existing Conditions:
 $V_{100} = (1.65 \times 31240) / 12 = 4296$ cf; $V_{10} = 0.657 \times 4296 = 2822$ cf

Proposed Conditions:
 $V_{100} = (1.89 \times 31240) / 12 = 4920$ cf; $V_{10} = 0.657 \times 4920 = 3232$ cf

LEGAL DESCRIPTION:

Lot Twenty Six (26) of the Clifford Industrial Park, Albuquerque, Bernalillo County, New Mexico.

BENCH MARK:

Station 8-C17, 0.3 mile north of the intersection of Paseo Del Norte Blvd. and Washington Street NW. The station mark is a standard ACS brass Tablet, stamped "8-C17, 1975", cemented in a drill hole in top of concrete curb. Elevation = 5111.029

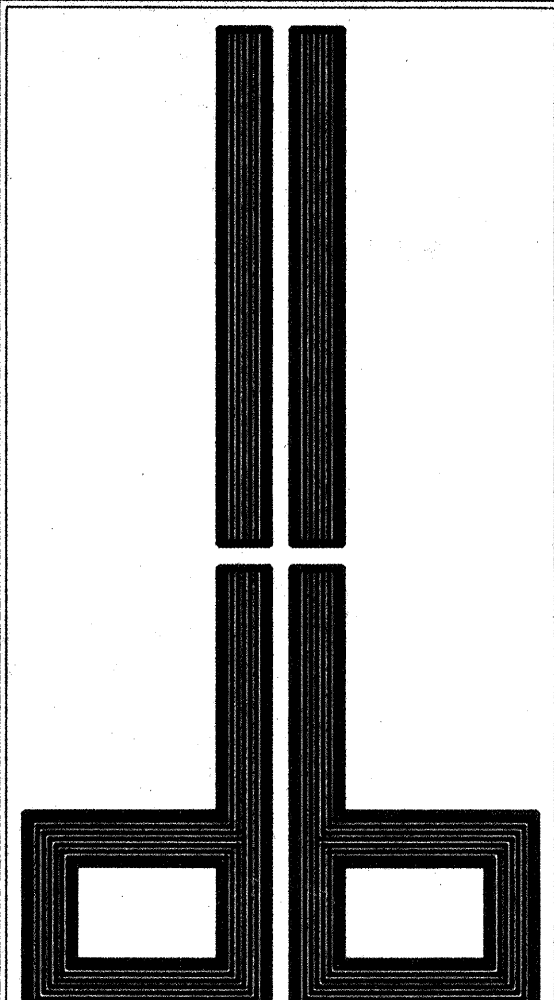
- CONSTRUCTION NOTES**
- Two (2) working days prior to any excavation, contractor must contact New Mexico One Call System, Inc., 260-1990 for location of existing utilities.
 - Prior to construction, the contractor shall excavate and verify the horizontal and vertical location of all potential obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
 - All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning safety and health.
 - All construction within public right-of-way shall be performed in accordance with applicable City of Albuquerque Standards and Procedures.
 - If any utility lines, pipelines, or underground utility lines are shown on these drawings, they are shown in an approximate manner only, and such lines may exist where none are shown. If any such existing lines are shown, the location is based upon information provided by the owner of said utility, and the information may be incomplete, or may be obsolete by the time construction commences. The engineer has undertaken no field verification of the location, depth, size, or type of existing utility lines, pipelines, or underground utility lines, makes no representation pertaining thereto, and assumes no responsibility of liability therefor. The contractor shall inform itself of the location of any utility line, pipeline, or underground utility line in or near the area of the work in advance of and during excavation work. The contractor is fully responsible for any and all damage caused by its failure to locate, identify and preserve any and all existing utilities, pipelines, and underground utility lines. In planning and conducting excavation, the contractor shall comply with state statutes, municipal and local ordinances, rules and regulations, if any, pertaining to the location of these lines and facilities.
 - 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.
 - The design of planters and landscaped areas is not part of this plan. All planters and landscaped areas adjacent to the building(s) shall be provided with positive drainage to avoid any ponding adjacent to the structure.

ENGINEER'S CERTIFICATION:

Having inspected the site and having obtained as-constructed spot elevations of the new pavement north and west of the addition and the new dirt swale east of the addition, I hereby certify that the as-constructed addition is in substantial conformance with the approved grading and drainage plan, Engineer's stamp dated December 23, 1992; the only minor departure from said plan, a low retaining wall from the SE corner of the addition to the SE corner of the site, being shown on the plan.

Frank D. Lovelady
 Frank D. Lovelady N.M.P.E. 6512

4/19/93
 (Date)

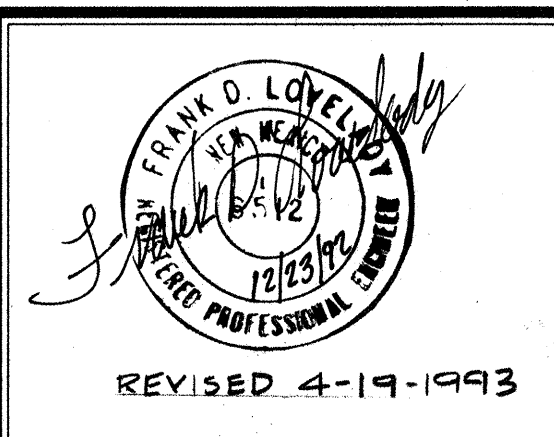


DESIGN/BUILDERS
 LICENSE NO. 3044

JOB NO.: 92-131
 DATE: OCTOBER 30, 1992
 CONTRACT DATE:
 PLOT DATE: DECEMBER 3, 1992
 REVISIONS:

ESSHT2

SEIDEL ADDITION
 8436 WASHINGTON PLACE N.E.
 ALBUQUERQUE, NEW MEXICO 87113



DRAINAGE PLAN

SHEET NO.
2

JOB NO.: 92-131 OF 6