

DRAINAGE INFORMATION SHEET

PROJECT TITLE: WAREHOUSE ADDITION ZONE ATLAS/DRNG. FILE #: L-21
 LEGAL DESCRIPTION: LOT 30 A, BLK 3, EAST CENTRAL BUS. ADDY.
 CITY ADDRESS: 11019 GOGHITI RD. S.E.
 ENGINEERING FIRM: ISAACSON & AREMAN CONTACT: FRED AREMAN
 ADDRESS: 128 MONROE ST. N.E. PHONE: 268-8828
 OWNER: SUNRIDGE CONSTRUCTION CONTACT: TOM POTTER
 ADDRESS: 412 DARTMOUTH S.E. PHONE: 266-6482
 ARCHITECT: (TO BE SELECTED) CONTACT: T. POTTER
 ADDRESS: _____ PHONE: 266-6482
 SURVEYOR: FET S.W. SURVEYING CO. CONTACT: F. WILSON
 ADDRESS: 333 LOMAS BLVD. N.E. PHONE: 247-4444
 CONTRACTOR: SUNRIDGE CONST. CO. CONTACT: T. POTTER
 ADDRESS: _____ PHONE: 266-6482

PRE-DESIGN MEETING:

☐ YES
☒ NO
☐ COPY OF CONFERENCE RECAP
 SHEET PROVIDED

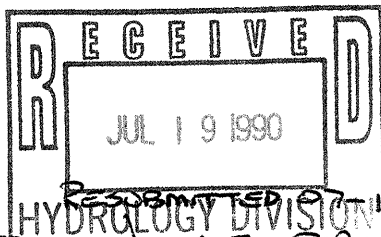
DRS NO. _____
 EPC NO. _____
 PROJ. NO. _____

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: JUNE 29, 1990
 BY: FRED AREMAN, P.E.

FILE COPY



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

August 7, 1990

Fred Arfman, P.E.
Isaacson & Arfman, P.A.
128 Monroe Street, NE
Albuquerque, New Mexico 87108

RE: REVISED DRAINAGE PLAN FOR A WAREHOUSE ADDITION
@ 11019 COCHITI ROAD, SE (L-21/D39)
REVISION DATED JULY 16, 1990

Dear Mr. Arfman:

Based on the information provided on your submittal of July 19, 1990, 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.

Also, a separate permit is required for construction within City right-of-way. A copy of this approval letter must be on hand when applying for the excavation permit.

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

Cordially,

Bernie J. Montoya, C.E.
Engineering Assistant

xc: Darlene Saavedra

BJM/bsj

PUBLIC WORKS DEPARTMENT

Walter H. Nickerson, Jr., P.E.
Assistant Director Public Works

ENGINEERING GROUP

Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER

SCALE:
1"=10'

DRAINAGE CALCULATIONS

EXISTING CONDITIONS: SITE IS PRESENTLY FULLY UTILIZED AS AN INDUSTRIAL/ MANUFACTURING FACILITY CONSISTING OF A 40'X102' METAL BUILDING AND A SIDE YARD (WESTERLY HALF) OF HARD PACKED GRAVEL/NATIVE MATERIAL. PRESENTLY, STORM WATERS ACCUMULATE IN THAT OPEN AREA BEFORE SOME DISCHARGE OVER THE WESTERLY LOT LINE AND ONTO THE ADJACENT PROPERTY.

STORM WATER CALCULATION

COMPOSITE 'C' VALUE = 0.75
 $Q_{100} = 1.34$ CFS
 $Q_{10} = 0.9$ CFS

VOLUME: SOIL GROUP 'B' (INDUSTRIAL AREA) CN=88
 $V_{100} = 4A = 1,688$ CU.FT.
 $V_{10} = (X)(0.657) = 1,109$ CU.FT.

DEVELOPED CONDITIONS: THIS SITE IS SCHEDULED FOR A 1,344 SQ.FT. EXPANSION TO THE EXISTING BUILDING'S NORTHERLY END. THE MAJORITY OF THE EXISTING BUILDING'S NORTHERLY END IS TO BE REMOVED AND REPLACED WITH ASPHALT OVERLAY. THE HISTORICAL DRAINAGE PATTERN SHALL BE ALTERED TO ALLOW THE DEVELOPED STORM WATER FLOWS TO COLLECT ALONG THE PROPOSED WEST C.M.U. WALL AND BE CONVEYED SOUTHERLY VIA A SWALE. STORM WATERS ARE THEN DISCHARGED ONTO THE NORTH GUTTER OF COCHITI ROAD VIA TWIN 4" DIA. DRAIN PIPES.

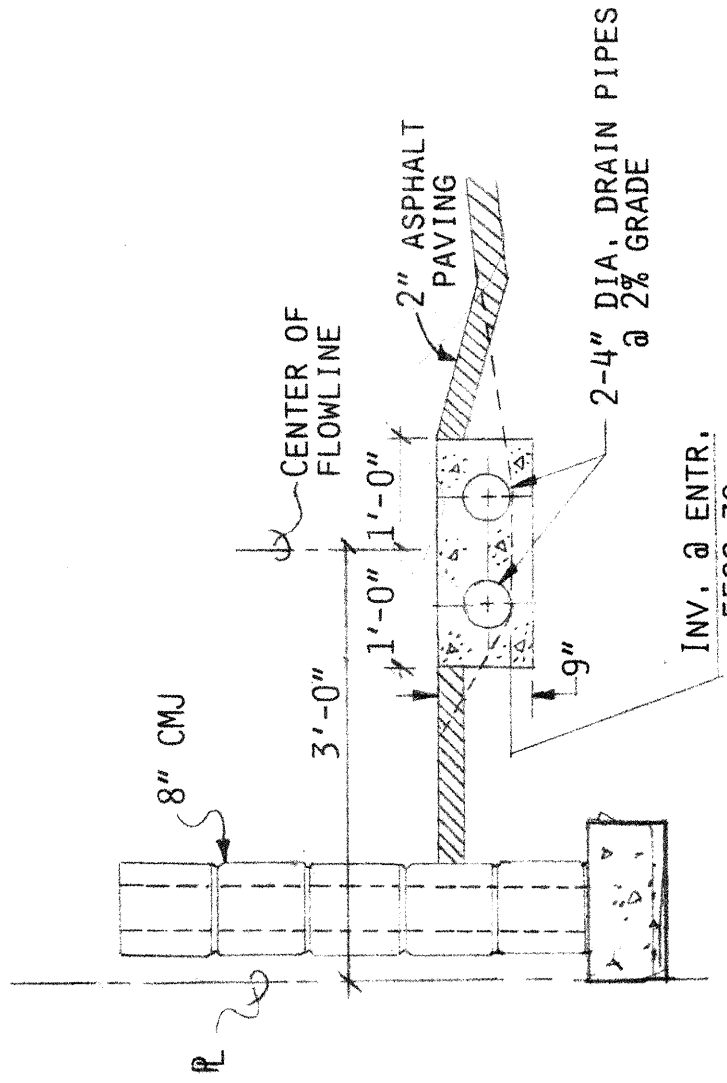
COMPOSITE 'C' VALUE = 0.92

$Q_{100} = (0.92)(5.18)(0.3444) = 1.6$ CFS
 $Q_{10} = (X)(0.657) = 1.1$ CFS

VOLUME: 90% IMPERVIOUS-- $q = 1.45$

$V_{100} = 1,813$ CU.FT.

$V_{10} = 1,191$ CU.FT.



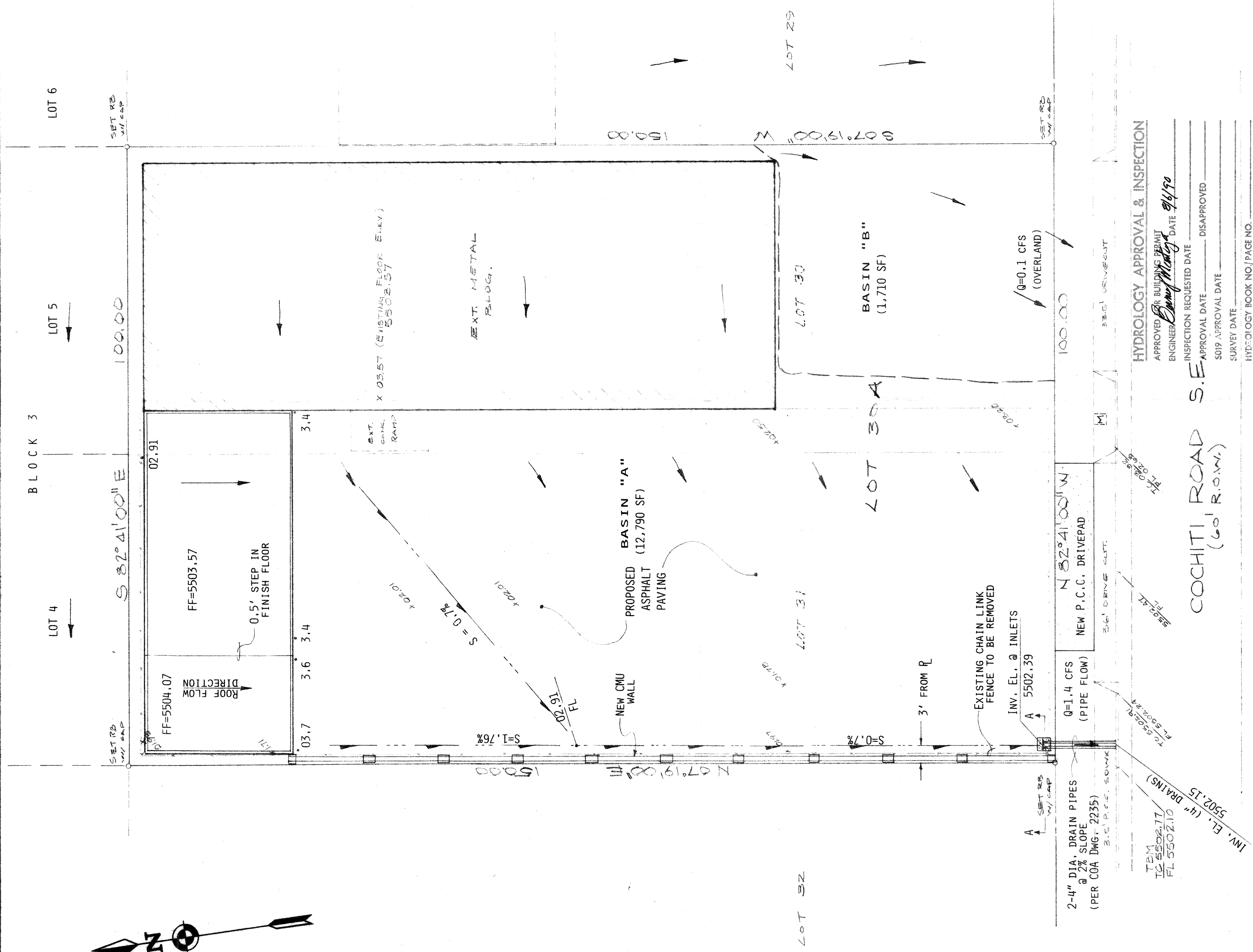
SECTION A-A
N.T.S.

PIPE FLOW ANALYSIS

USING THE MANNING FORMULA FOR PIPE FLOW

WHERE:

$S = 2\%$
 $D = 4"$
 $N = 0.014$
 $Q = VA = 1.19(0.2/3)^{2/3} (1.1)^{1/3} (A)$
 $Q = 0.75$ CFS FOR TWIN 4" DIA. PIPES
 $Q = 1.5$ CFS -- 0.K.



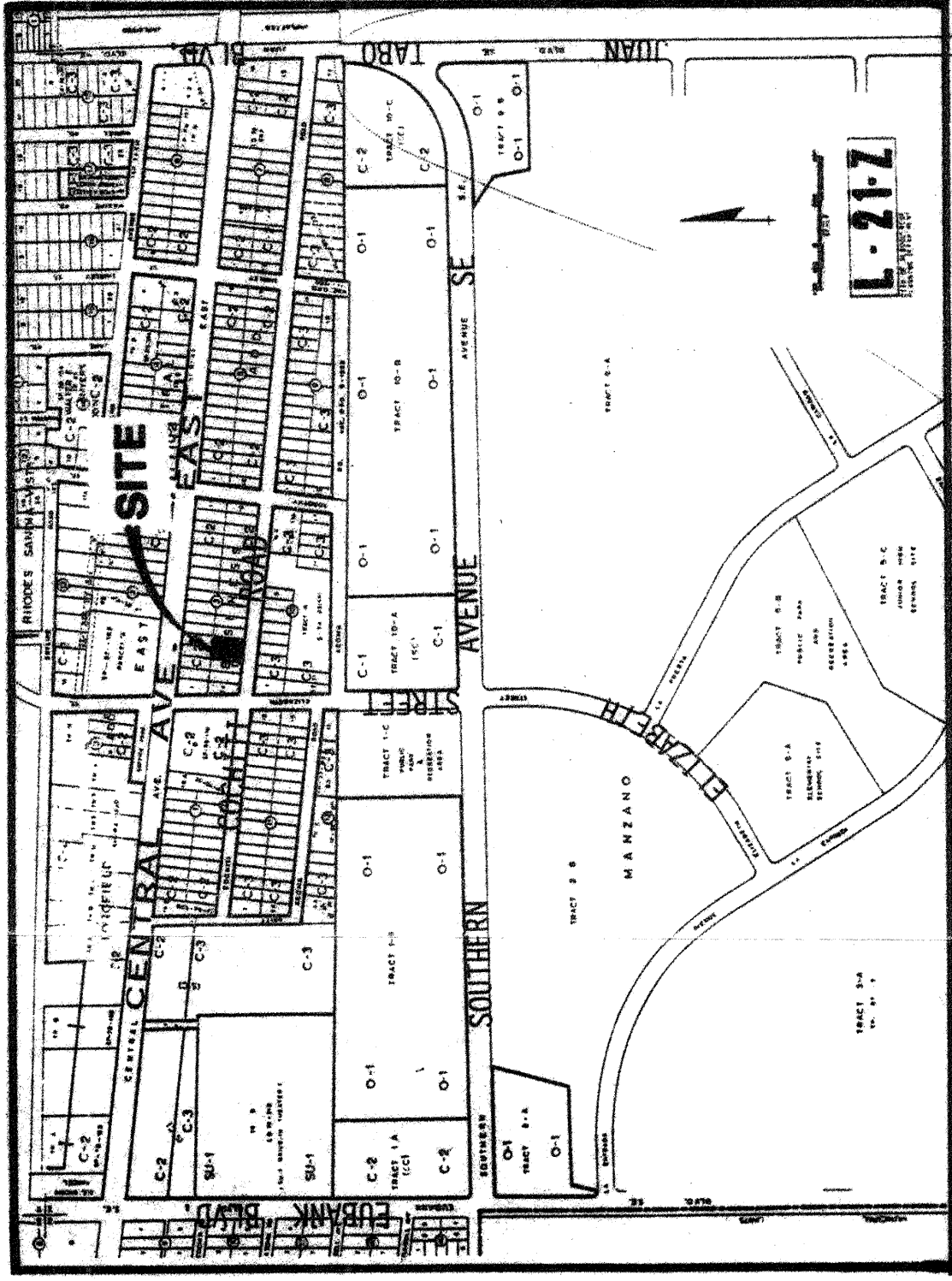
APPROVALS	NAME	DATE	TITLE
HYDROLOGY	James Martinez	8/14/90	WAREHOUSE ADDITION
INSPECTOR			11019 COCHITI ROAD SE
A.C.E./FIELD			PERMIT NO. L-21
			SHEET 1 OF 1

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VICINITY MAP

LEGAL DESCRIPTION

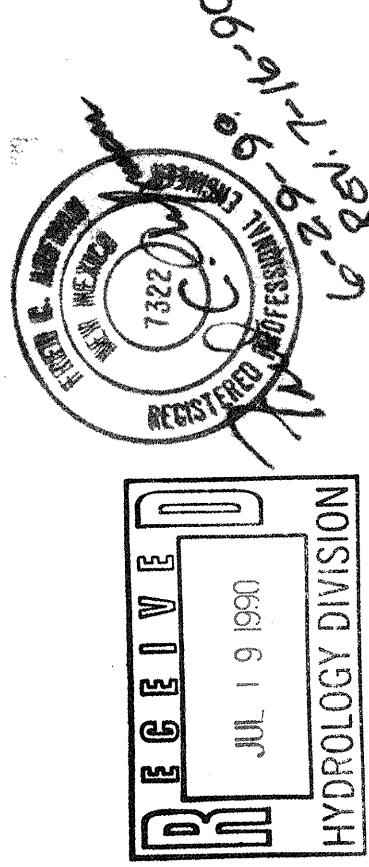
LOTS 30 & 31 IN BLOCK 3 OF THE EAST CENTRAL BUSINESS ADDITION TO THE CITY OF ALBUQUERQUE, COUNTY OF BERNALILLO, STATE OF NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE MAP OF SAID ADDITION AND FILED IN THE OFFICE OF THE COUNTY CLERK, OF BERNALILLO COUNTY, NEW MEXICO ON MARCH 20, 1939.

GENERAL NOTES

1. BENCHMARK: ALBUQUERQUE CONTROL STATION "3-L21" LOCATED ALONG THE NORTHERLY RIGHT-OF-WAY LINE OF SOUTHERN AVE. AND AT THE CORNER POST OF THE LITTLE LEAGUE PLAYING FIELD. ELEVATION: 5505.0
2. TEMPORARY BENCHMARK: PROPERTY LINE SCRIBE ALONG THE NORTHERLY TOP OF CURB OF COCHITI ROAD AND THE PROJECTION OF THE SITE'S WESTERLY PROPERTY LINE. ELEVATION: 5502.77
3. SURVEY: BOUNDARY AS FOUND ON THE A.L.T.A. CERTIFICATE OF SURVEY DATED JANUARY 27, 1983, PREPARED BY SOUTHWEST SURVEYING COMPANY, INC. AND SIGNED BY FRANKLIN E. WILSON, N.M.L.S., NO. 6446.
4. FLOOD HAZARD STATEMENT: PANEL 37 OF 50 OF THE FEMA FLOODWAY MAP DATED OCTOBER 14, 1983 DOES NOT INDICATE THAT THE SITE IS WITHIN ANY FLOOD HAZARD AREA.
5. SOILS: PANEL 32 OF THE SOILS SURVEY OF BERNALILLO COUNTY INDICATES THAT THE SITE'S SOILS ARE TIJERAS (T6B) WITH A CORRESPONDING HYDROLOGIC SOIL GROUP CLASSIFICATION OF B.
6. OFF-SITE FLOWS: EXISTING AND PROPOSED SITE DOES NOT ACCEPT ANY OFF-SITE STORM WATER FLOWS FROM LOTS 4 AND 5, BLOCK 3 TO THE NORTH, NOR FROM LOT 29 ADJACENT TO THE EAST.

NOTICE TO CONTRACTORS

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL EXCEPT AS OTHERWISE SPECIFIED OR NOTED THEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986.
2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
4. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE (RESIDENTIAL)
6. TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
7. 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.
8. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.



WAREHOUSE ADDITION
11019 COCHITI ROAD S.E.
ALBUQUERQUE, N.M.

DRAINAGE & GRADING PLAN

JUNE 28, 1990

SHT 1 OF 1