

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

November 2, 1995

R.G. Lee Lee Engineering 2316 Calle de Rafael NE Albuquerque, NM 87122

RE: ENGINEER CERTIFICATION FOR WESTERN METAL WORKS OFFICE & WAREHOUSE FACILITIES (C17-D1A6) CERTIFICATION STATEMENT DATED 10/30/95.

Dear Mr. Lee:

Based on the information provided on your November 1, 1995 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, CE Engineering Associate

Serne & Mortaga

BJM/dl

c: Western Metal Works
Andrew Garcia

File

DRAINAGE INFORMATION SHEET

PROJECT TITLE Western Metal Works ZONE	ATLAS/DRWNG. FILE #: C-17/D-/H6
LEGAL DESCRIPTION: LOT 34A, CLIFORD IN	IDUSTRAL PARK
CITY ADDRESS: WASHINGTON ST. N.E.	
ENGINEER FIRM: LEE ENGINEERING	CONTACT: R.G. Lee, Jr.
ADDRESS: 2316 CALLE DE REFAEL	N.E. PHONE: (505) 822-8999
ALBUQUERQUE N.M. 871	22
ARCHITECT:	CONTACT:
ADDRESS:	
OWNER:	CONTACT:
ADDRESS:	PHONE:
SURVEYOR:	CONTACT:
ADDRESS:	PHONE:
CONTRACTOR:	
ADDRESS:	PHONE:
YES _X NOCOPY OF CONFERENCE RECAPSHEET PROVIDED	DRB NO. EPC NO. PROJ.NO
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE REPORT	SKETCH PLAT APPROVAL
DRAINAGE PLAN	PRELIMINARY PLAT APPROVAL
CONCEPTUAL GRADING & DRAINAGE	SITE DEVELOPMENT PLAN APPROVAL
GRADING PLAN	FINAL PLAT APPROVAL
EROSION CONTROL PLAN	BUILDING PERMIT APPROVAL
X ENGINEER' CERTIFICATION	ROUGH GRADING PERMIT APPROVAL
	GRADING/PAVING PERMIT APPROVAL
	X OTHER "CERTIFICATE OF OCCUPANCY
DATE SUBMITTED: OCTOBER 31, 199	5
BY: Herman Hood	

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DRAINAGE CALCULATIONS

A. SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA FOR THE CITY OF ALBUQUERQUE, NEW MEXICO IN COOPERATION WITH BERNALILLO COUNTY, NEW MEXICO AND THE ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY.

B. FLOODWAY, FLOOD BOUNDARY AND FLOODWAY MAP, CITY OF ALBUQUERQUE, NEW MEXICO, PANEL 9 OF 50.

II. GENERAL INFORMATION:

A. SITE LIES IN ZONE TWO(2) (SEE REF. A, PAGE A-1) B. 100 YEAR, 6 HOUR RAINFALL CRITERIA C. TIME OF CONCENTRATION, Tc; Tc = 0.2 hr(12 MINUTES)

C. ZONE ATLAS PAGE C-17-Z.

III.IMPERVIOUSNESS: TREATMENT

SQ.FT SURFACES ACRES SQ.FT ACRES UNDEVELOPED 0.0000 0.0000 4907 0.1126 LANDSCAPING 0.0000 COMPACTED/VACANT 29485 0.6769 0 0.0000 24978 0.5734 IMPERVIOUS 400 0.0092 29885 0.6861 TOTAL AREA (TA) 29885 0.6861

A. TABLE A-9): IV. PEAK DISCHARGE 100 YEAR (REF. *TYPES OF TREATMENT EXISTING PROPOSED SURFACES Qp(100) CFS/Ac CFS/Ac Qp(100) 2.28 0.26 2.28 0.00 COMPACTED/VACANT 3.14 2.13 3.14 0.00 MPERVIOUS ... 4.70 0.04 4.70 2.70 PEAK DISCHARGE FROM SITE 2.17 CFS 2.95 CFS

PEAK DISCHARGE 10 YEAR (REF. A, TABLE A-9): TREATMENT EXISTING TYPES OF SURFACES CFS/Ac Qp(10) 0.38 0.38 🧋 ^{**}0.95 0.00 0.95 1.71 1.16 1.71 0.03 3.14 3.14 1.80 PEAK DISCHARGE FROM SITE 1.19 CFS 1.91 CFS

VI. WEIGHTED "E" 100 YEAR, 6 HR. (REF. A, TABLE A-8): TYPES OF EXISTING TREATMENT SURFACES ExA/TA ExA/TA UNDEVELOPED 0.53 LANDSCAPING 0.78 0.78 COMPACTED VACANT 1.13 1.11 1.13 0.00 IMPERVIOUS 2.12 0.03 2.12 1.77 WEIGHTED "E" FACTOR 1.14 IN 1.90 IN

VI. VOLŮME 100 YEAR, V(360) (REF. A, TABLE A-8):

EXISTING 1.14 \times 0.686/12 = 0.07 AC. FT. 2847.17 CU.FT

PROPOSED 1.90 x 0.686/12 =0.11 AC. FT. 4731.74 CU.FT

DRAIN PIPE HYDRAULICS

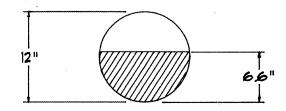
VII. BASIN "A" IMPERVIOUSNESS TREATMENT TYPES OF ACRES SURFACES ACRES UNDEVELOPED 10698 0.2456 0 0.0000 0.0000 LANDSCAPING 0.0000 COMPACTED/VACANT 0.0000 0.0528 0.0000 IMPERVIOUS 0.1928 TOTAL AREA (BASIN "A") 10698 0.2456 10698 0.2456

VIII. PEAK DISCHARGE 100 YEAR (REF. A, TABLE A-9): TREATMENT EXISTING TYPES OF SURFACES CFS/Ac Qp(100) CFS/Ac Qp(100)1.56 UNDEVELOPED 2.28 LANDSCAPING 2.28 0.00 COMPACTED/VACANT 3.14 0.00 3.14 0.17 4.70 0.00 IMPERVIOUS 4.70 0.91 PEAK DISCHARGE FROM BASIN "A" 0.38 CFS 1.07 CFS

IX. PEAK DISCHARGE 10 YEAR (REF. A, TABLE A-9): TYPES OF TREATMENT EXISTING CFS/Ac Qp(10) SURFACES CFS/Ac UNDEVELOPED 0.38 0.09 LANDSCAPING 0.00 0.00 0.95 0.95 0.00 0.09 COMPACTED/VACANT 1.71 0.00 3.14 0.61 PEAK DISCHARGE FROM BASIN "A" 0.09 CFS 0.70 CFS

Storm Drain Capacity

A. 12" CMP STORM DRAIN CAPACITY: Using Manning's Equation (Open Channel—uniform flow)



GIVEN INPUT DATA:

DIAMETER 1.00 FT SLOPE 0.010 FT/FT MANNING'S "n" 0.025 DISCHARGE 1.07 CFS

COMPUTED RESULTS: DEPTH 0.55 FT(6.6") VELOCITY 2.44 FPS FLOW AREA 0.44 SF CRITICAL DEPTH 0.44 FT CRITICAL SLOPE 0.0217 FT/FT PERCENT FULL 54.52% FULL CAPACITY 1.85 CFS

QMAX @.94D 1.99 CFS FROUDE NUMBER 0.65 (FLOW IS SUBCRITICAL)

BENCH-MARK INFORMATION

TEMPORARY BENCH-MARK BEING THE TOP OF CURB SPRAY PAINTED WHITE (TBM) BEARS ELEVATION 5110.91 MSL, REFERENCE TO CITY BENCH-MARK 8-C17 LOCATED NORTH OF PASEO DEL NORTE ON WASHINGTON ST. N.E. BEING A BRASS CAP IN A CURB ON THE WEST SIDE OF THE STREET BEARS ELEVATION 5111.03(MSL).

EROSION CONTROL MEASURES:

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

- 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 LEAVING THE SITE AND ENTERING ADJACENT PROPERTY. -- 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 THE PUBLIC

NORTH ANAHEIM AVE. N.E NOT TO SCALE AMAFCA NORTH DIVERSION CHANNEL VICINITY MAP ZONE ATLAS C-17 FRONTAGE RD PASEO DEL NORTE BLVD. N.E.

THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY OR ALL SEDIMENT WITHIN THE PUBLIC STREETS THAT HAVE BEEN ERODED FROM THE SITE AND DEPOSITED THERE. M 34'-12" CMP
DRAIN PIPE ····M BASIN "A" 08.00 TC ● 1% MIN SLOPE LIMITS CHAINLINK FENCE @ P/L MARK INFORMATION) Ø750 TA 08.00 TRW Ø750 TA LANSCAPING PROPOSED OFFICE & WAREHOUSE FINISHED FLOOR 5107.60 5107.52 NEW RETAINING EXISTING ASPHALT SWALE-Ø750 TA 0750 TA CHAINLINK FENCE @ P/L-08.00 TA NEW ASPHALT PAVING, 250.00 MATCH 06.00 TC EXISTING GRADES - NEW HEADER CURB 05.00 TA EXISTING RETAINING WALL Ø55Ø TA EXISTING ASPHALT

NOTE TO CONTRACTOR

CERTIFICATION

with the approved drainage plan.

I R.G Lee, Jr, Registered Professional Engineer hereby certify

the improvements shown hereon are in substantial compliance

- 1. An excavation/construction permit will be required before beginning any work within the City right-of-way. Approved copy of this plan must be submitted at the time of application for permit.
- 2. All work detailed in this plan to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with City of Albuquerque Interim Standard Specification for Public Works Construction.
- 3. Two workings days prior to any excavation, contractor must contact line locating Services at (505) 260-1990 for locating existing utilities.
- 4. Prior to construction, the contractor shall excavate and verify the horizonal and vertical location of all utilities. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- 5. Street backfill compaction shall be according to arterial street use.
- 6. Maintenance of CMP drain pipe shall be the responsibility of the Owner of property served.

GENERAL NOTES:

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

ABBREVIATION LEGEND

TOP OF RETAINING WALL - TRW TOP OF CURB - TC TOP OF ASPHALT - TA FLOWLINE - FL

Symbol Legend

EXISTING CONTOUR DESIGN CONTOUR DESIGN SPOT ELEVATION

PROPERTY LINE EASEMENT LINE FLOW DIRECTION EXISTING SPOT ELEVATION

NEW RETAINING WALL

DOWN SPOUT

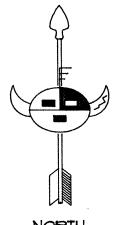
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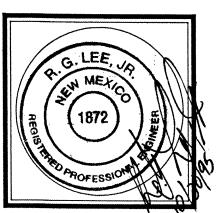
NOV -

LEGAL DESCRIPTION

LOT 34A CLIFFORD INDUSTRIAL PARK ALBUQUERQUE, BERNALILLO COUNTY NEW MEXICO.

SCALE: 1"=20'





Job Number 9571

Revised

MARCH 9, 1995

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TAL WORKS, FACILITIES MEXICO USE , & WAREHOU ALBUQUERQUE, 1 ROPOSED FFICE

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GRADING & DRAINAGE PLAN