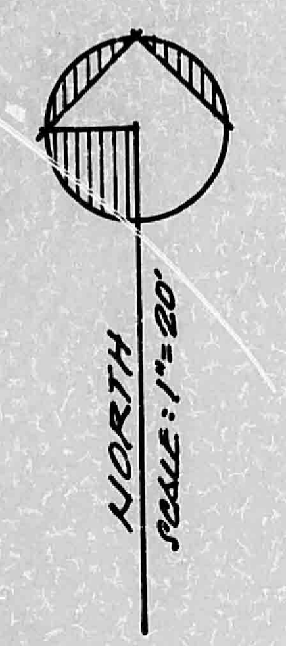
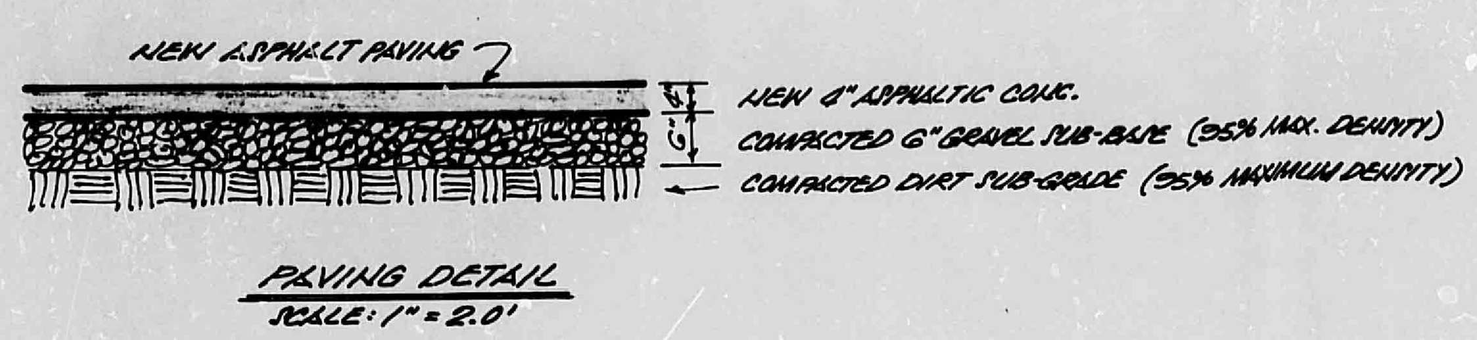
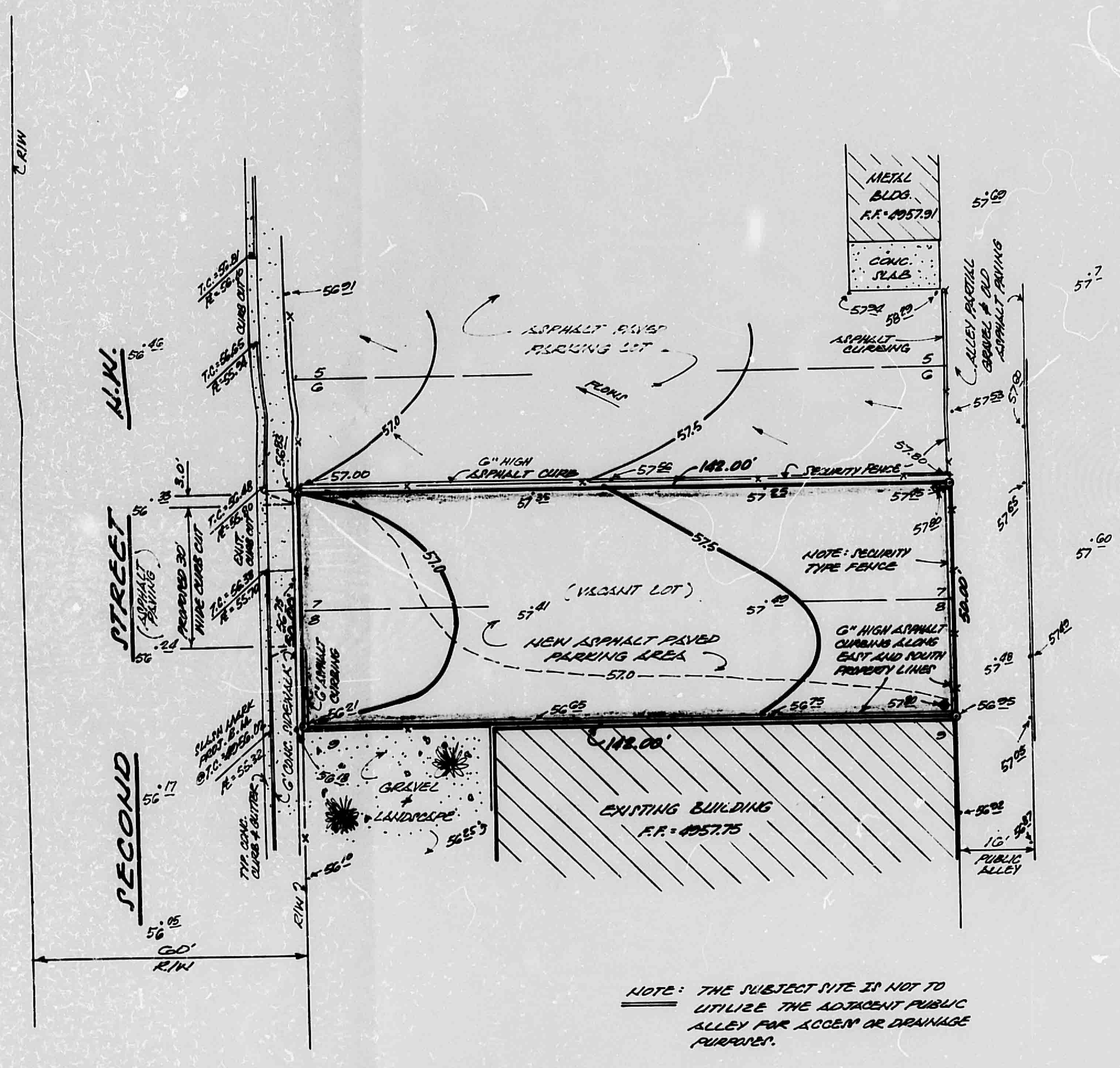




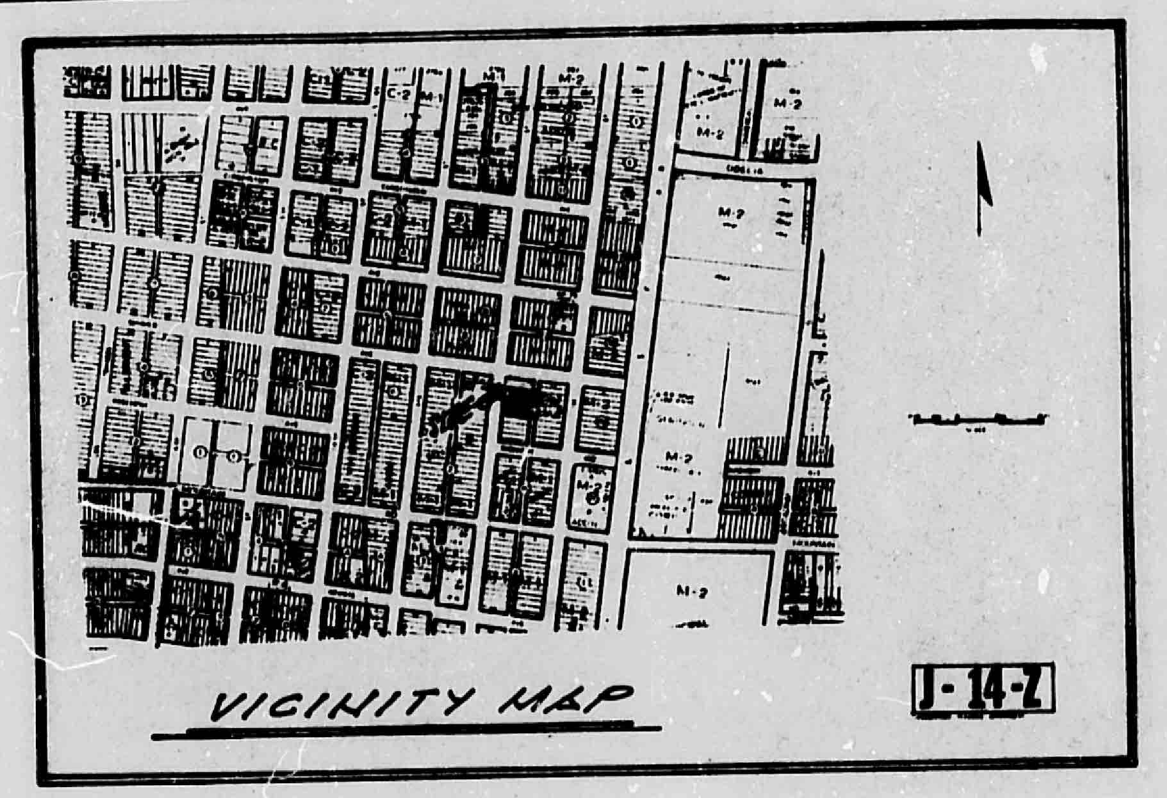
PAVING DETAIL
SCALE: 1" = 2.0'

LEGEND:

- T.C. = 57.25 = TOP OF CURB ELEVATION
- FL = 56.90 = CURB FLOW LINE ELEVATION
- (dotted box) = EXISTING OR PROPOSED CONCRETE
- —·— 58.0 —·— = EXISTING CONTOUR
- —— 58.0 —— = PROPOSED CONTOUR
- —x——x— = EXISTING FENCE
- 57.90 = PROPOSED SPOT ELEVATION
- (heavy line) = PROPOSED LIMITS OF NEW PAVING



NOTE: THE SUBJECT SITE IS NOT TO UTILIZE THE ADJACENT PUBLIC ALLEY FOR ACCESS OR DRAINAGE PURPOSES.



GENERAL NOTES:

1. TOPOGRAPHY SURVEY PERFORMED BY "TRANSIT-STADIA METHOD.
2. NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD WITHIN THE SUBJECT PROPERTY OTHER THAN SHOWN ON THE MAP HEREON.
3. UTILITY LINE INFORMATION OBTAINED FROM CITY OF ALBUQUERQUE ENGINEERING DEPARTMENT RECORDS AND FIELD SURVEY DATA.

CONSTRUCTION NOTES:

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 765-1234 FOR LOCATION OF EXISTING UTILITIES.
2. 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.
3. 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.
4. ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.

LEGAL DESCRIPTION:

A CERTAIN TRACT OR PARCEL OF LAND SITUATED WITHIN THE CITY LIMITS OF THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO: BEING AND COMPRISING LOTS NUMBERED SEVEN (7) AND EIGHT (8), IN BLOCK 14 OF THE PARIS ADDITION, A SUBDIVISION OF THE CITY OF ALBUQUERQUE, NEW MEXICO.

BENCH MARK REFERENCE:

STANDARD USC &GS BRASS CAP STAMPED "L-224 RESET" SET IN THE TOP OF TRAFFIC WARNING LIGHT AT MOUNTAIN ROAD N.W. AND RAILROAD TRACK. M.S.L. ELEVATION = 4958.560.

PROJECT TEMPORARY BENCH MARK (TBM) IS AS SHOWN ON THE GRADING PLAN HEREON.

EROSION CONTROL MEASURES:

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

1.) 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 FROM LEAVING THE SITE AND ENTERING ADJACENT PROPERTIES.

2.) 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 PUBLIC STREETS.

3.) THE CONTRACTOR SHALL IMMEDIATELY AND THROUGHLY REMOVE ANY AND ALL SEDIMENT WITHIN PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SITE AND DEPOSITED THERE.

DRAINAGE CALCULATIONS

I. **REFERENCES:**

A. City of Albuquerque Development Process Manual (DPM) Volume 2, Design Criteria, Chapter 22, Drainage, Flood Control and Erosion Control.

B. Soil Survey of Bernalillo County and Parts of Sandoval and Valencia Counties, New Mexico, United States Department of Agriculture, Soil Conservation Service.

II. **GENERAL INFORMATION:**

A. Soil Type (Ref. B., Page 30) Soil type is Gk, Glendale loam, Hydrologic Soil Group B.

B. Imperviousness. Existing site is 100% impervious. Development consists of paving the site with 6-inch base course and 4-inch asphalt concrete surface course.

C. "C" Factor (See Ref. A., Plate 22.2 C-1) For 100% impervious, "C" = 1.0.

D. Rainfall, 100-year, 6-hour (R_6) See Ref. A., Plate 22.2 D-1) R_6 = 2.2 inches.

E. Time of Concentration (T_c) (See Ref.A., Plate 22.2 B-1)
Minimum slope 0.70% Velocity = 1.05 feet per second.
Length of watershed is 145 feet.
T_c = 145 / 1.05 x 60 = 2.3 minutes Use 10 minutes

F. Rainfall Intensity (See Ref. A., Plate 22.2 D-2)
$I = R_6 \times 6.84 \times T_c^{-0.51} = 2.2 \times 6.84 \times 10^{-0.51} = 4.65$
I = 4.65 in./hr.

III. **PEAK DISCHARGE:**

A. Rational equation, Q = CIA, C and I as defined above. A = site area in acres = 0.163 acres (7,100 SF)

B. Total site Discharge. Q_{100} = CIA = 1.0 x 4.65 x 0.163
Q_{100} = 0.76 cfs.

Q_{10} = 0.657 x 0.76 = 0.50 cfs (See Ref.A., Plate 22.2 D-1)

C. Summary of Discharge

	Q_{10}	Q_{100}
Discharge to Second Street	0.50 cfs	0.76 cfs
Total Site Discharge	0.50 cfs	0.76 cfs

IV. **CONCLUSIONS:**

A. ALL RUNOFF FROM THE SITE WILL BE DISCHARGED THROUGH THE PROPOSED DRIVEPAD.

b. PAVING OF THE SITE AS PROPOSED WILL HAVE NO ADVERSE EFFECT ON AREA DRAINAGE OR DOWNSTREAM PROPERTIES.

RECEIVED
DEC 16 1985
HYDROLOGY SECTION

FRANK O. LOVELADY
NEW MEXICO
6512
REGISTERED PROFESSIONAL ENGINEER
12/16/85

GRADING AND DRAINAGE PLAN
FOR
YELLOW FREIGHT LINES, INC.
(SECOND ST. N.W. & SUMMER AVENUE, N.W.)
ALBUQUERQUE, NEW MEXICO