

N.T.S.  
LOCATION MAP  
J-14-Z

### LEGEND

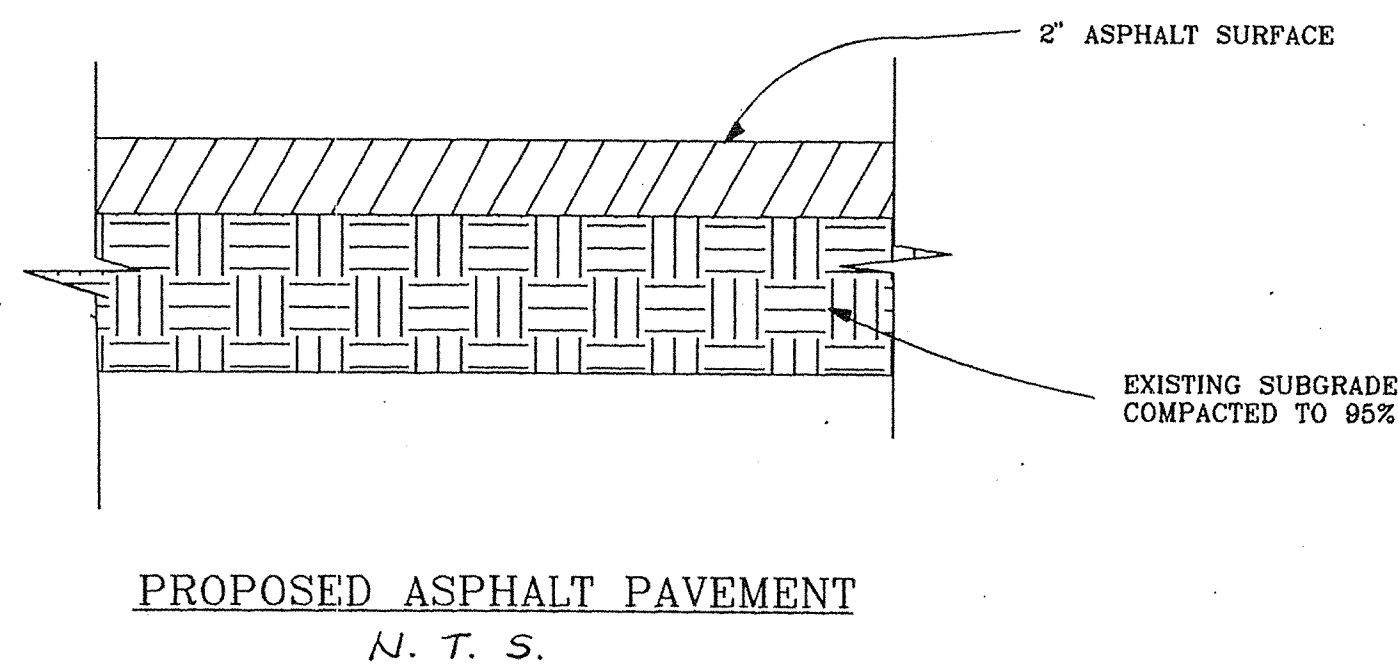
- 8" S.S. EXISTING 8" SANITARY SEWER
- 8" W. EXISTING 8" WATERLINE
- 6" W. EXISTING 6" WATERLINE
- 12" S. EXISTING 12" STORM SEWER
- 10" S. EXISTING 10" STORM SEWER
- 57.5 EXISTING CONTOUR LINE
- 57.5 PROPOSED CONTOUR LINE
- TC 57.48' FL 56.87' EXISTING ELEVATION TOP OF CURB & FLOW LINE
- TA 57.62' EXISTING FIRE HYDRANT
- TS 57.62' EXISTING SPOT ELEVATION
- PROPOSED ELEVATION, TOP OF ASPHALT
- PROPOSED ELEVATION, TOP OF SIDEWALK
- LANDSCAPED AREA
- EXISTING MANHOLE
- EXISTING DOWNSPOUT

**BENCHMARK:** ACS MON. 23-J-14 ELEVATION 49 54.89 (MSLD 1929)

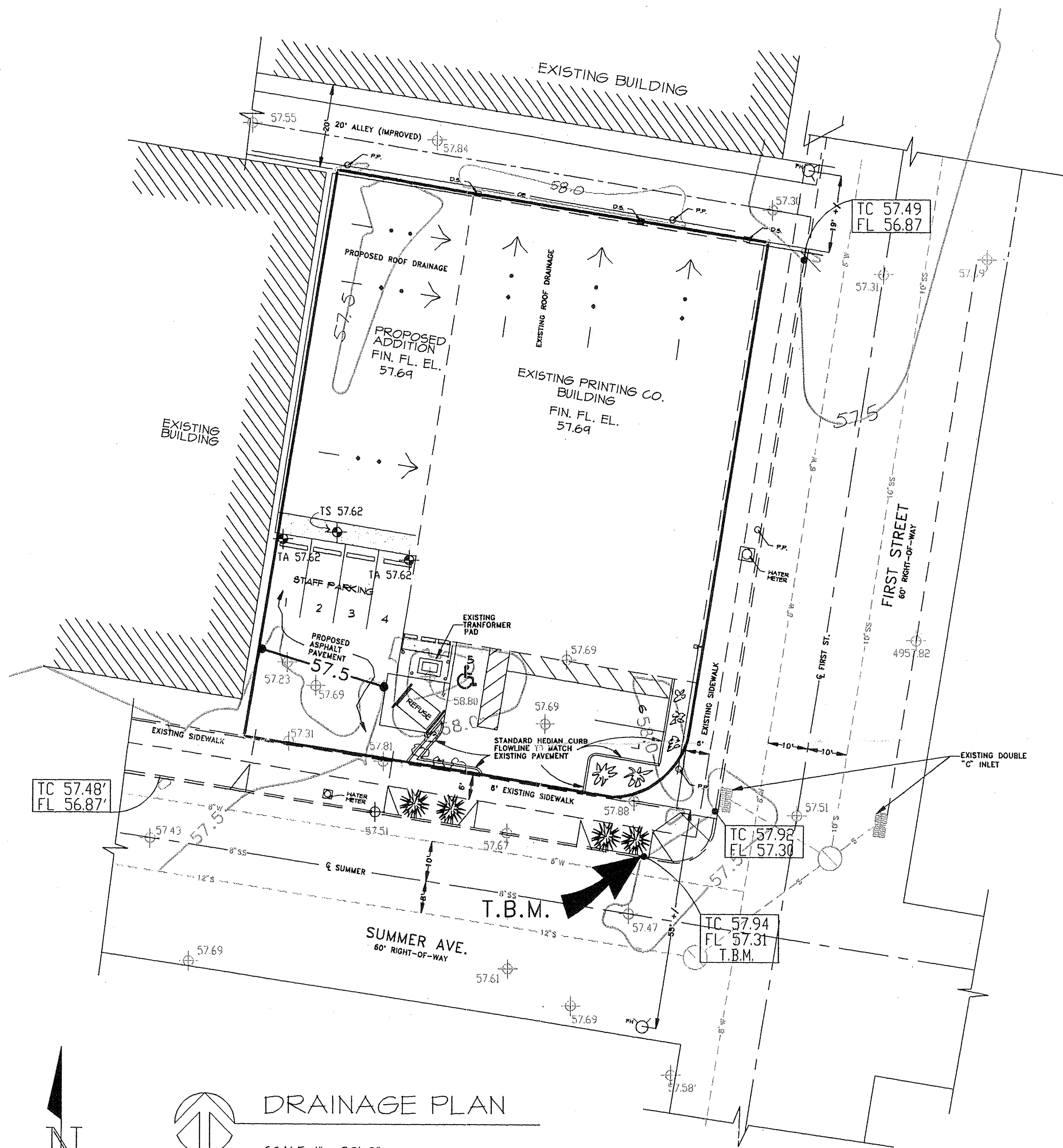
**T.B.M.:** WEST END, NORTHWEST CURB RETURN  
TOP OF CURB ELEVATION 49 57.94

### NOTE:

- THIS IS NOT A BOUNDARY SURVEY. PROPERTY CORNERS, BEARINGS AND DISTANCES SHOWN HEREON ARE FOR ORIENTATION PURPOSES ONLY.
- UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON MAPS AND/OR EVIDENCES ON THE GROUND. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS OF ALL UTILITIES, SHOWN OR NOT SHOWN ON THIS DRAWING, PRIOR TO ANY EXCAVATIONS.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE FOR KEEPING RUN-OFF ON SITE DURING CONSTRUCTION AND CLEANING UP SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY AND ADJOINING PROPERTIES AFTER CONSTRUCTION.
- MEDIAN CURB AND GUTTER PER CITY STANDARD DRAWING #2415.



PROPOSED ASPHALT PAVEMENT  
N. T. S.



# VanGuard Printing Co.

## DRAINAGE AND GRADING PLAN

**LEGAL DESCRIPTION:** LOT 24-A, BLOCK 13 PARIS ADDITION

**ADDRESS:** 101 Summer Avenue NW, Albuquerque, NM

**FLOODPLAIN INFORMATION:** The property is located on Zone X, areas determined to be outside 500-year floodplain, according to the Floodway Boundary and Floodway Map of Bernalillo County, New Mexico, and Incorporated Areas, Map Number 35001C0332, effective September 20, 1996.

**EXISTING CONDITIONS:** The area proposed for development consists of existing buildings surrounded by concrete pavement and no landscaping. The lot is bounded on the north by a paved alley, on the east and south by improved Summer Avenue and First Street, and on the west by an improved lot. The roof of the existing building drains to the alley. The area in front of the existing building drains to Summer Avenue. The lot of the existing house which is lower than the lot of the existing building has no positive drainage to the street nor to the alley. The lot receives no offsite runoff.

**PROPOSED IMPROVEMENTS:** The existing house will be demolished and a 2975 square foot addition to the existing building will be built of the same finished floor elevation as the building. The roof of the addition will be directed to the roof of the old building and eventually to downspouts that drain toward the paved alley. The elevations of the surrounding existing building will not be changed.

**EROSION CONTROL:** Water, if any, from activities during construction and/or from rain will be temporarily ponded on site to prevent the spread of silt.

### CALCULATIONS:

**Existing Conditions:**  
Land Treatment A = 0  
Land Treatment B = 0  
Land Treatment C = 3,292 SF = 0.07 Acre  
Land Treatment D = 12,116 SF = 0.28 Acre  
TOTAL = 0.35 Acre

**Proposed Improvement:**  
Land Treatment A = 0  
Land Treatment B = 0  
Land Treatment C = 525 SF = 0.01 Acre  
Land Treatment D = 14,10 SF = 0.34 Acre  
TOTAL = 0.35 Acre

Zone 2 (From DPM 22.2, page A-1)

Existing Condition.

Peak Discharge, 100-year: C = 3.14, D = 4.70 (DPM 22.2, A-9)

$Q_{100} = 0.07 \times 3.14 = 0.22 \text{ cfs}$   
 $0.28 \times 4.70 = 1.32 \text{ cfs}$   
composite = 1.54 cfs

**Volume of Runoff, Excess Precipitation, 100-year:** C = 1.13, D = 2.12 (from DPM 22.2, A-7)

$V_{100} = 0.07 \times 1.13 \times 43560/12 = 287 \text{ cf}$   
 $0.28 \times 2.12 \times 43560/12 = 2,155 \text{ cf}$   
composite = 2,442 cf

**Proposed Improvement:**

Peak Discharge, 100-year  
Land Treatment C, 100-year: 3.14 cfs  
Land Treatment D, 100-year: 4.70 cfs

$Q(100\text{-year}) : 0.01 \times 3.14 = 0.03 \text{ cfs}$   
 $0.34 \times 4.70 = 1.60 \text{ cfs}$   
composite = 1.63 cfs

**Volume of Runoff, 100-year:**

Excess Precipitation, Land Treatment C  
100-year: 1.13 inch  
Excess Precipitation, Land Treatment D  
100-year: 2.12 inches

$V(100\text{-year}) : C = 0.01 \times 1.13 \times 43,560/12 = 41 \text{ cfs}$   
 $D = 0.34 \times 2.12 \times 43,560/12 = 2,616 \text{ cfs}$   
TOTAL = 2,657 cfs

Change in Discharge,  $Q_{100} = 1.63 - 1.54 = 0.09 \text{ cfs}$  (increase)  
Change in Runoff Volume,  $V_{100} = 2,657 - 2,442 = 215 \text{ cf}$  (increase)

Since the proposed addition is replacing an existing structure in a developed basin, the proposed grading has been designed to allow for free discharge to the improved city system such as Summer Avenue or the paved alley behind the existing building.

**CONCLUSION:** The proposed improvements will not have any adverse impact on nor will be adversely affected by the existing drainage around the Vanguard Printing property.

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**RHOMBUS P.A., INC.**

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