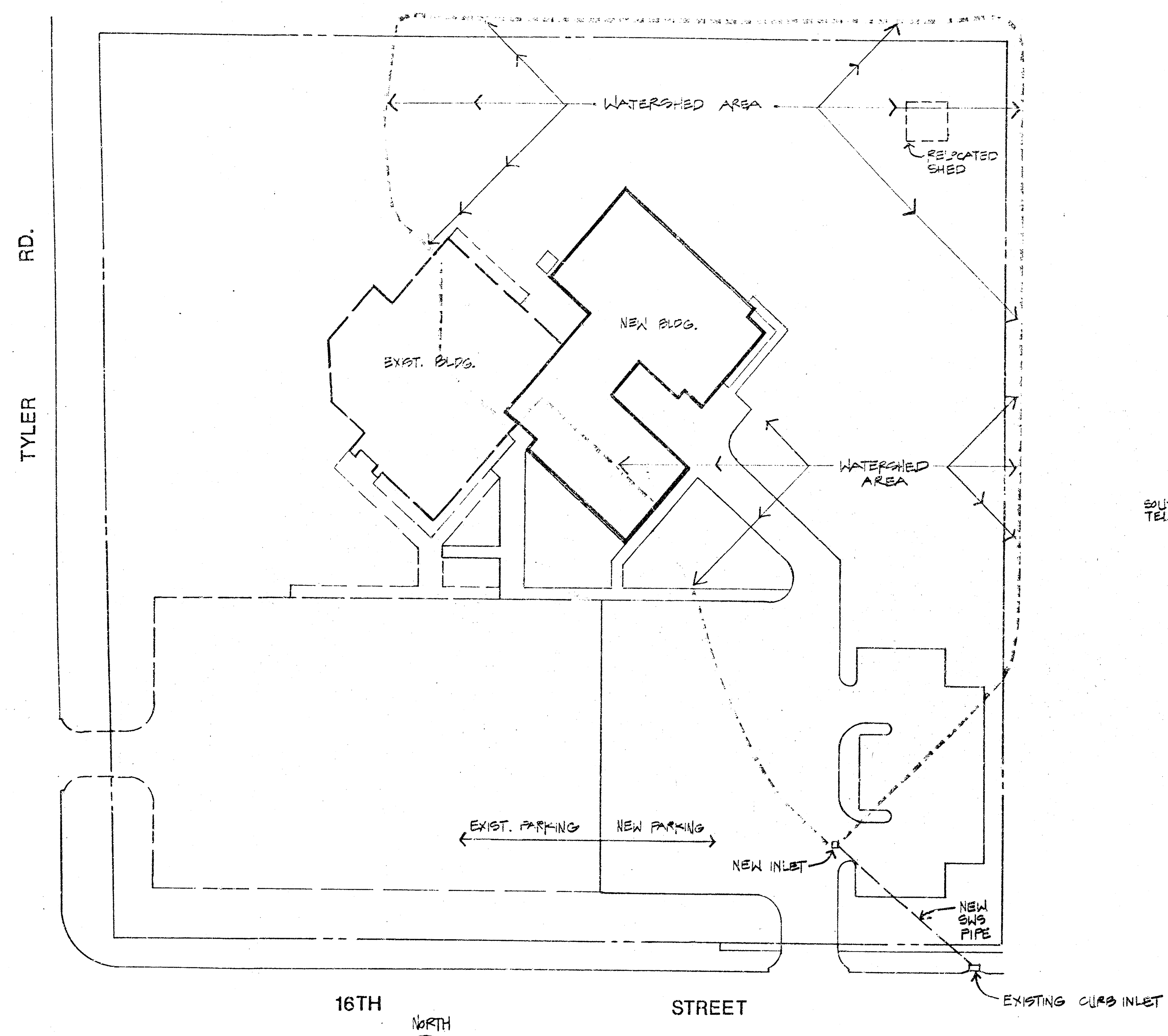
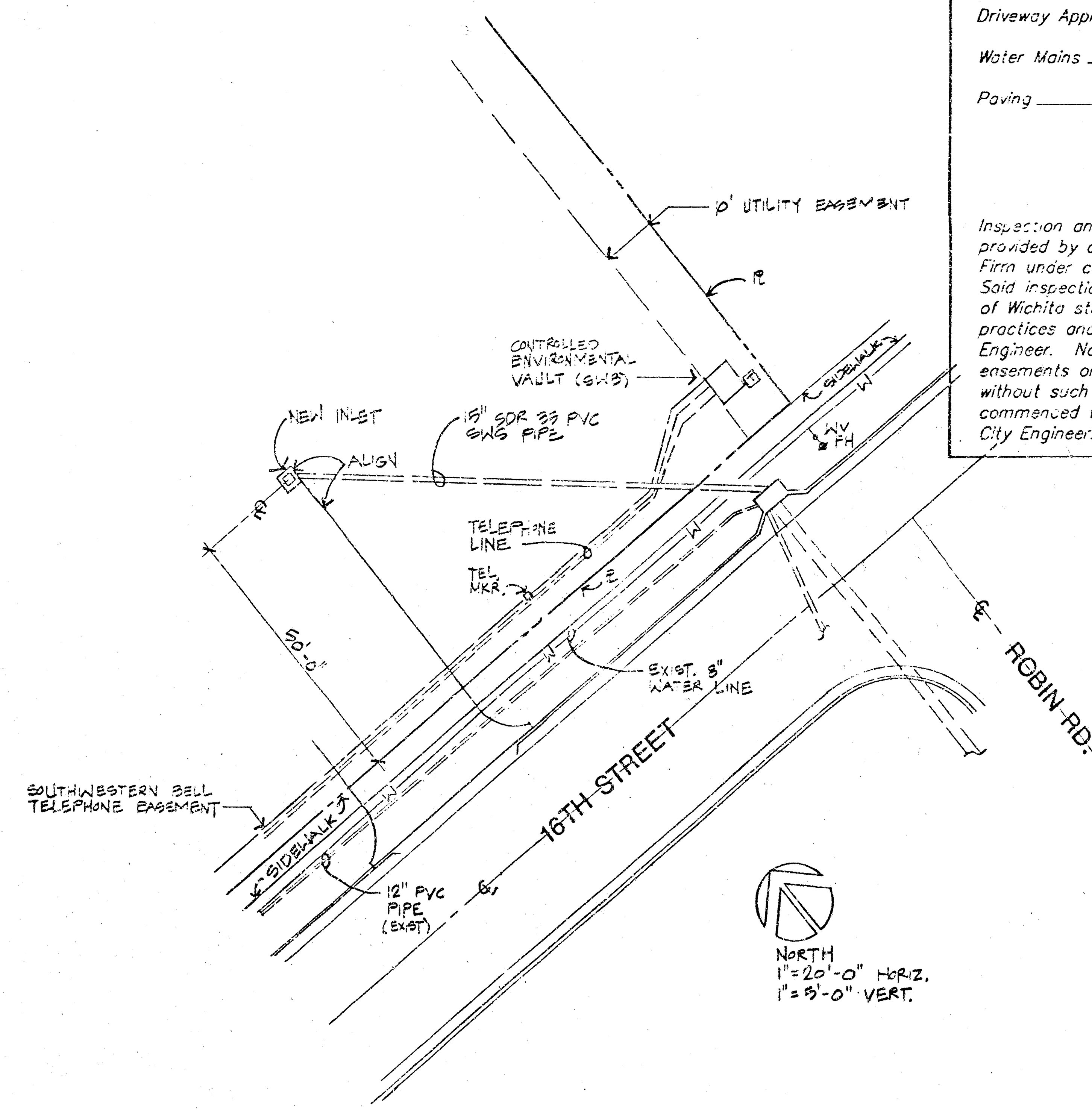
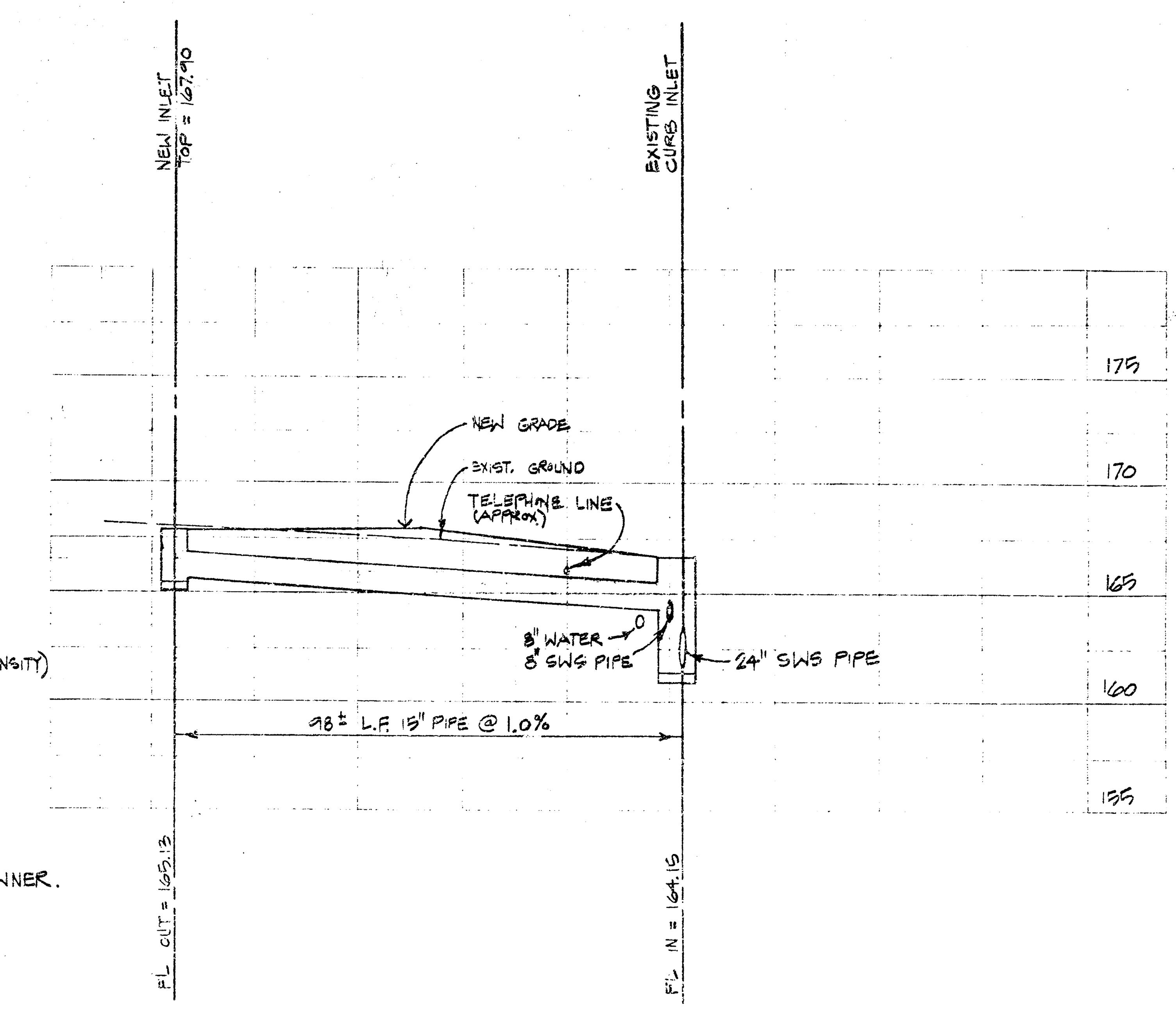


SITE PLAN

1"=40'-0"





STORM WATER RUNOFF CALCULATIONS (RATIONAL METHOD)

30,181 S.F. ASPHALT PAVEMENT / CONCRETE PAVEMENT / ROOFS
58,885 S.F. LAWN

30,181 x .95 (RUNOFF COEFFICIENT) = 28,672
58,885 x .35 " " = 20,610
49,282 S.F. ADJUSTED GROSS AREA

Q = A C I

Q = THE RUNOFF OF THE AREA, IN CUBIC FEET PER SECOND
A = THE AREA TO BE DRAINED, IN ACRES
C = THE COEFFICIENT OF RUNOFF
I = THE INTENSITY OF RAINFALL, IN INCHES PER HOUR

Q = A C I
Q = 1.13 (AREA x COEFFICIENT) x 4 (RAINFALL INTENSITY)
Q = 4.52 FT^3/SEC.

@ 1% SLOPE - 15"Ø PIPE SIZE

NOTES
1. PIPE SIZE WAS DETERMINED BY MANNING'S PIPE FLOW CHART.
2. MAINTENANCE OF SWS PIPE IS TO BE BY OWNER.

PROJECT #444PPS

INDEX CODE 607861

APPROVED AS NOTED BY CITY ENGINEER OF WICHITA

Sanitary Sewers ______
Storm Sewers VRH
Driveway Approaches ______
Water Mains ______
Paving ______

NOTE TO CONTRACTORS

Inspection and testing for this project is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection nor shall any work be commenced without written authorization by the City Engineer.

JAMES FRANCIS DECKER LICENSED 9583 2/9/94 KANSAS PROFESSIONAL ENGINEER

COVENANT PRESBYTERIAN CHURCH

WICHITA, KANSAS

2507.00

28 JANUARY 1994

1 OF ONE

18-S-3-e