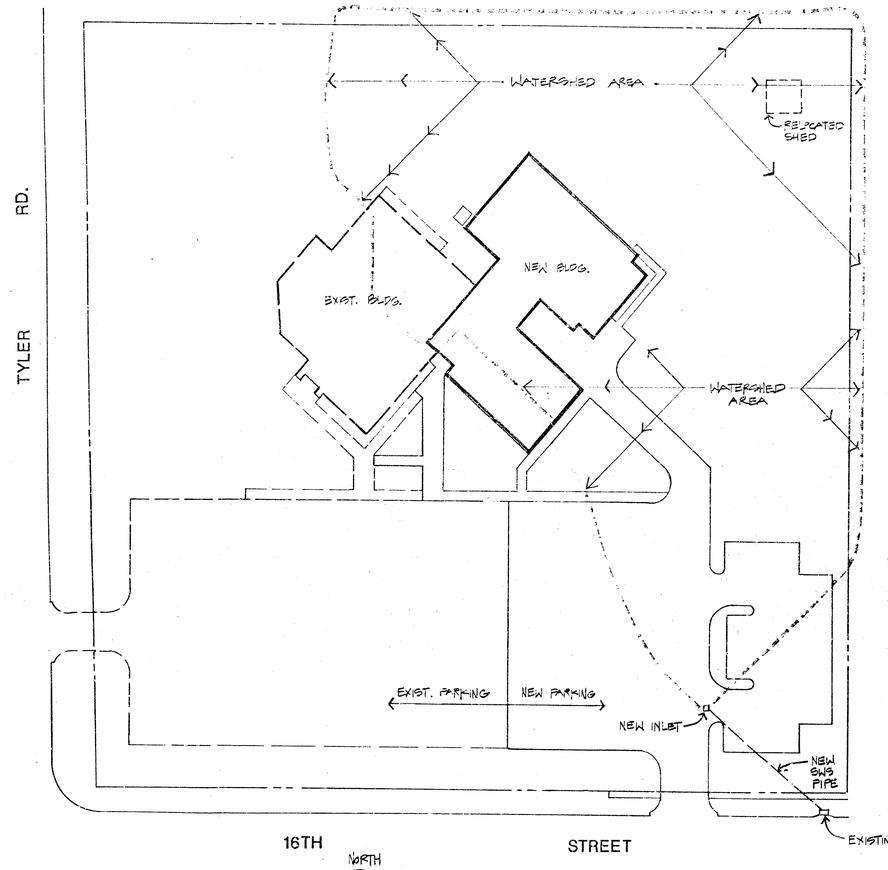


SITE PLAN

1"=40'-0"

STORM WATER RUNOFF CALCULLATIONS (RATIONAL METHOD)

20,181 S.F. ASPHALT PAVENT / CONCRETE PAVEMENT / ROOFS
58,885 S.F. LAWN

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

Q = A C I

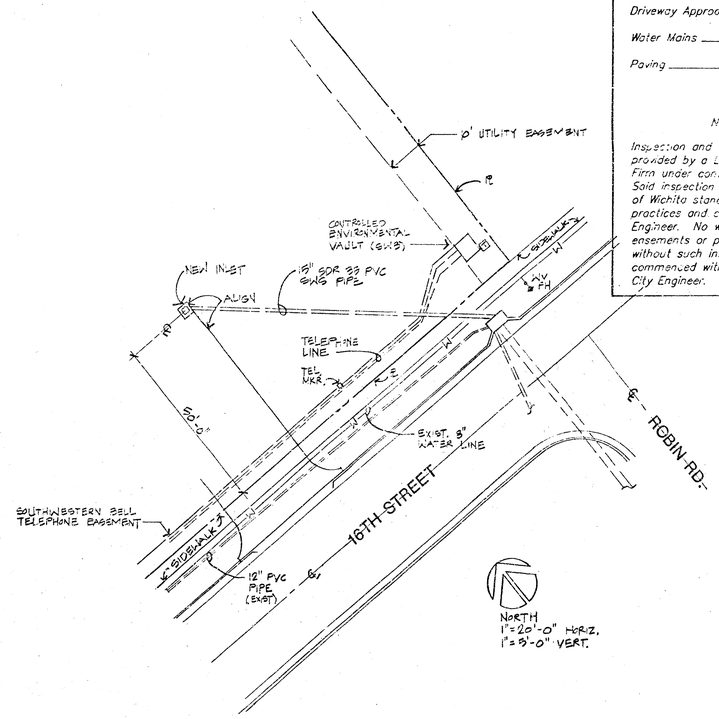
Q = THE RUNOFF OF THE AREA, IN CUBIC FEET PER SECOND
A = THE AREA TO BE DRAINED, IN ACRES
C = THE COEFFICIENT OF RUNOFF
I = THE INTENSITY OF RAINFALL, IN INCHES PER HOUR

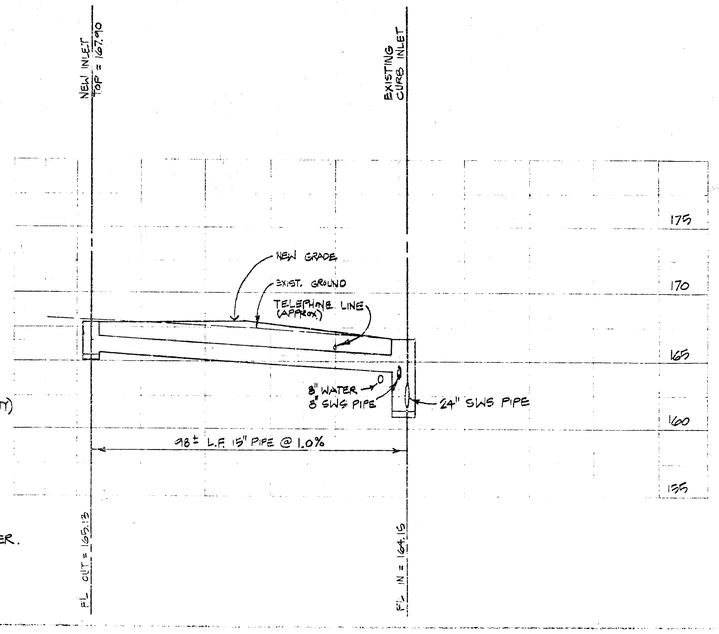
Q = A C I
Q = 1.13 (AREA x COEFFICIENT) x 4 (RAINFALL INTENSITY)
Q = 4.52 FT³/SEC.

@ 1% SLOPE - 15"ϕ PIPE SIZE

NOTES

1. PIPE SIZE WAS DETERMINED BY MANNING'S PIPE FLOW CHART.
2. MAINTENANCE OF SWG 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.

REGISTERED PROFESSIONAL ENGINEER
FRANCIS DECKER
9582
STATE OF KANSAS

SCHLAGECKER ENGINEERING & PLANNING
WICHITA, KANSAS 67213

COVENANT PRESBYTERIAN CHURCH

WICHITA, KANSAS

REVISION DATE

JOB NUMBER
2507.00

28 JANUARY 1994

SHEET NUMBER
1
OF ONE

18-S-3-e