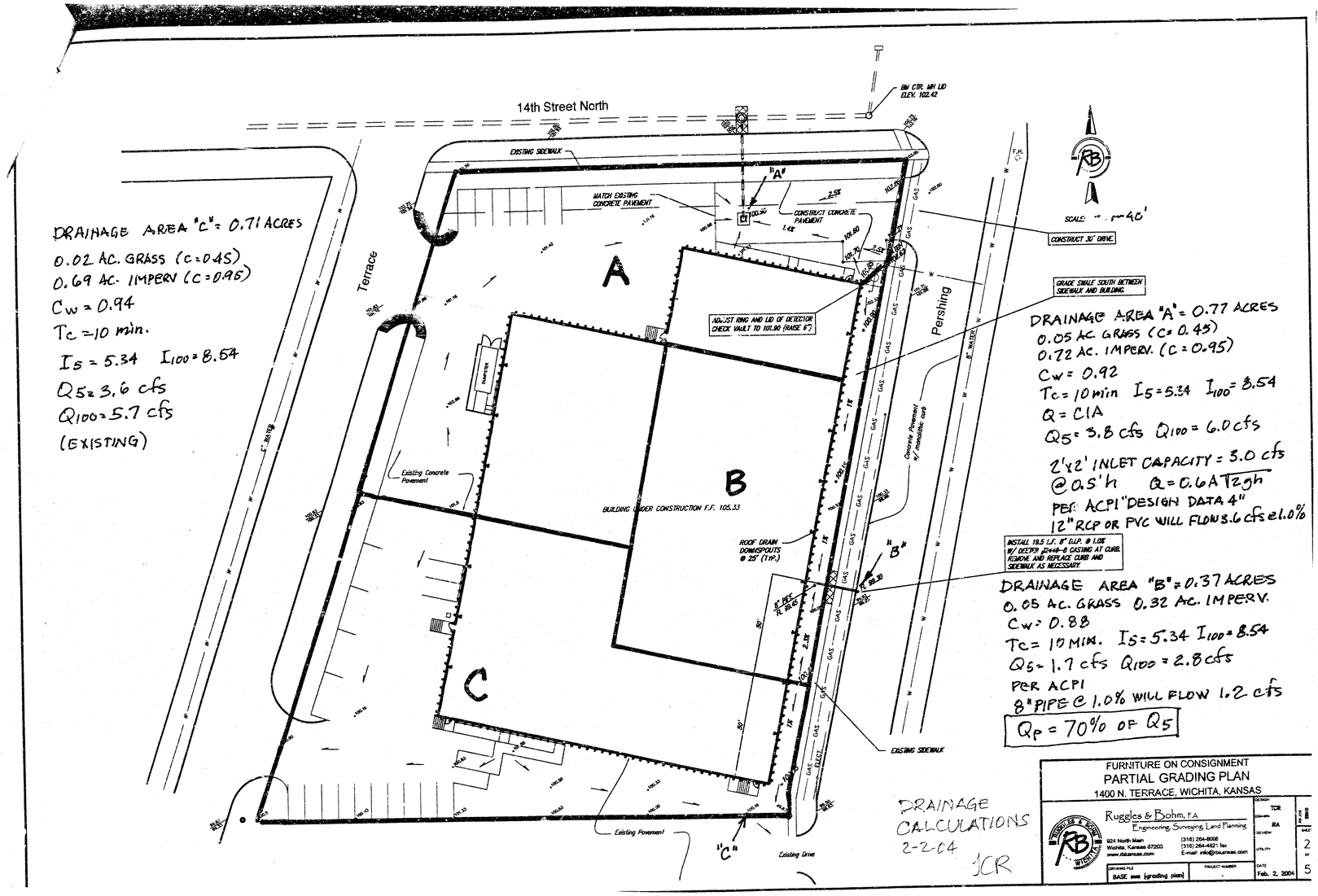
14th Street North
Terrace
Pershing
EXISTING SIDEWALK
MATCH EXISTING CONCRETE PAVEMENT
CONSTRUCT CONCRETE PAVEMENT
1.4%
2.5%
"A"
A
B
C
ADJUST RING AND LID OF DETECTOR CHECK VAULT TO 101.90 (RAISE 6")
BM CTR. MH LID ELEV. 102.42
SCALE: 1" = 40'
CONSTRUCT 30' DRIVE
GRADE SWALE SOUTH BETWEEN SIDEWALK AND BUILDING
Existing Concrete Pavement
BUILDING UNDER CONSTRUCTION F.F. 105.33
ROOF DRAIN DOWNSPOUTS @ 25' (TYP.)
"B"
EXISTING SIDEWALK
Existing Pavement
"C"
Existing Drive
Concrete Pavement w/ monolithic curb
8" WATER
GAS
ELECT.
DRAINAGE AREA "C" = 0.71 ACRES
0.02 AC. GRASS (C=0.45)
0.69 AC. IMPERV (C=0.95)
Cw = 0.94
Tc = 10 min.
I5 = 5.34 I100 = 8.54
Q5 = 3.6 cfs
Q100 = 5.7 cfs
(EXISTING)
DRAINAGE AREA "A" = 0.77 ACRES
0.05 AC. GRASS (C = 0.45)
0.72 AC. IMPERV. (C = 0.95)
Cw = 0.92
Tc = 10 min I5 = 5.34 I100 = 8.54
Q = CIA
Q5 = 3.8 cfs Q100 = 6.0 cfs
2'x2' INLET CAPACITY = 5.0 cfs
@ 0.5' h Q = 0.6A√2gh
PER: ACPI "DESIGN DATA 4"
12" RCP OR PVC WILL FLOW 5.6 cfs @ 1.0%
INSTALL 19.5 L.F. 8" D.I.P. @ 1.0% W/ DEETER 12"x18-B CASTING AT CURB. REMOVE AND REPLACE CURB AND SIDEWALK AS NECESSARY.
DRAINAGE AREA "B" = 0.37 ACRES
0.05 AC. GRASS 0.32 AC. IMPERV.
Cw = 0.88
Tc = 10 MIN. I5 = 5.34 I100 = 8.54
Q5 = 1.7 cfs Q100 = 2.8 cfs
PER ACPI
8" PIPE @ 1.0% WILL FLOW 1.2 cfs
Qp = 70% OF Q5
DRAINAGE CALCULATIONS
2-2-04
JCR
FURNITURE ON CONSIGNMENT
PARTIAL GRADING PLAN
1400 N. TERRACE, WICHITA, KANSAS
Ruggles & Bohm, P.A.
Engineering, Surveying, Land Planning
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DESIGN TCR
DRAWN RA
REVIEW
UTILITY
DRAWING FILE BASE exe (grading plan)
PROJECT NUMBER
DATE Feb. 2, 2004
JOB NO. 0303
SHEET 2 OF 5