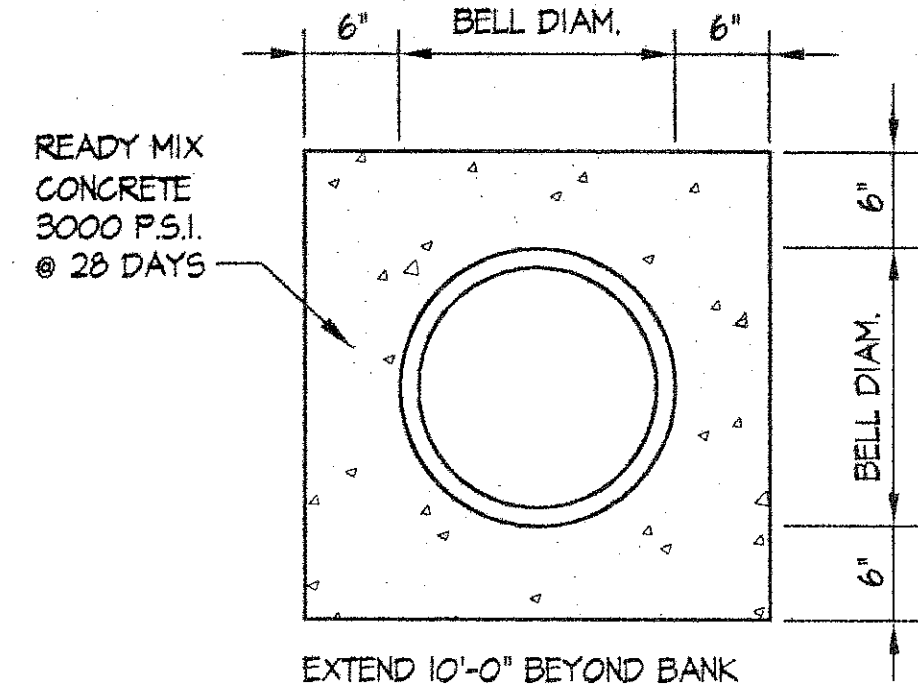


WATER AND SEWER NOTES

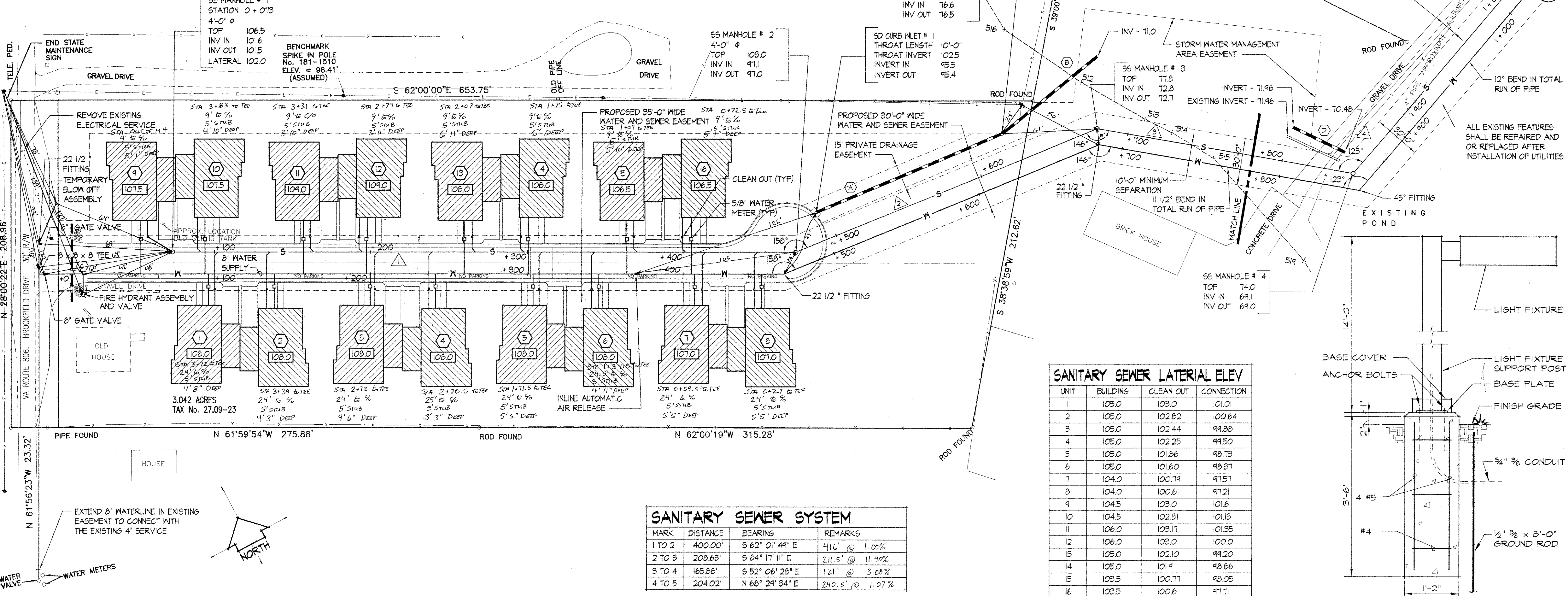
- 1. A MINIMUM COVER OF THREE (3) FEET IS REQUIRED OVER LINES.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND UNCOVERING ALL MANHOLES AND VALVE VAULTS AFTER PAVING. MANHOLE TOPS SHALL BE ADJUSTED TO GRADE IF NECESSARY.
- 3. ALL EXISTING UTILITIES MAY NOT BE SHOWN OR MAY NOT BE SHOWN IN THE EXACT LOCATION. THE CONTRACTOR SHALL COMPLY WITH STATE WATER WORKS REGULATIONS, SECTION 12.05.03, WHERE LINES CROSS.
- 4. LATERALS FROM MANHOLES SHALL BE PVC OR DUCTILE IRON OF SUFFICIENT LENGTH TO PROVIDE TWO (2) FEET OF BEARING ON NATURAL GROUND.
- 5. ALL TRENCHES SHALL BE COMPACTED ACCORDING TO V.D.O.T. STANDARDS
- 6. WATER MAIN SHALL BE MINIMUM CLASS 52 DUCTILE IRON IN ACCORDANCE TO AWWA C151 OR DR-14 PVC IN ACCORDANCE WITH C-900.
- 7. ALL MANHOLES AND CURB INLETS SHALL HAVE 4'-0" Ø CONCRETE SUPPORT STRUCTURES CONFORMED TO VDOT STANDARDS WITH CHARACTERISTICS AS INDICATED
- 8. ALL CONNECTIONS TO THE PUBLIC WATER AND SEWER SHALL BE MADE BY OR COORDINATED WITH ROANOKE COUNTY UTILITY DEPARTMENT.
- 9. ALL WATER AND SEWER LINES SHALL BE A MINIMUM OF 4'-0" CLEAR OF THE CG-6 HORIZONTALS
- 10. ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH ROANOKE COUNTY WATER AND SEWER REGULATIONS.

PIPE SCHEDULES				
MARK	SIZE	LENGTH	MATERIAL	SLOPE
1	8"	400'	PVC	1%
2	8"	208'	PVC	11.6%
3	8"	166'	PVC	3.1%
4	8"	204'	PVC	1.2%
A	18"	128'	ADS	14%
B	18"	78'	ADS	13% 6.73%
C	15"	50'	ADS	2%
D	12"	35'	ADS	1%

NOTE
ALL PIPE LENGTHS ARE INDICATED AS THE HORIZONTAL DISTANCE BETWEEN THE CENTER LINE OF THE STRUCTURE



SECTION
NOT TO SCALE



SANITARY SEWER LATERAL ELEV			
UNIT	BUILDING	CLEAN OUT	CONNECTION
1	105.0	103.0	101.01
2	105.0	102.82	100.64
3	105.0	102.44	99.88
4	105.0	102.25	99.50
5	105.0	101.86	98.73
6	105.0	101.60	98.37
7	104.0	100.79	97.57
8	104.0	100.61	97.21
9	104.5	103.0	101.6
10	104.5	102.81	101.13
11	106.0	103.17	101.35
12	106.0	103.0	100.0
13	105.0	102.10	99.20
14	105.0	101.9	98.86
15	103.5	100.77	98.05
16	103.5	100.6	97.71

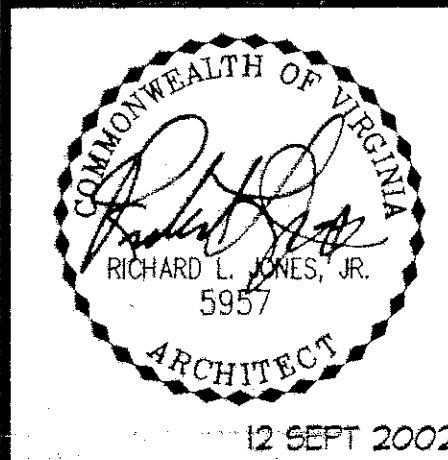
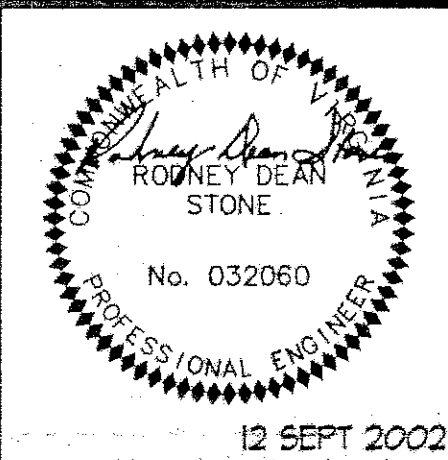
SANITARY SEWER SYSTEM			
MARK	DISTANCE	BEARING	REMARKS
1 TO 2	400.00'	S 62° 01' 49" E	411.6' @ 1.00%
2 TO 3	208.63'	S 84° 17' 11" E	211.5' @ 11.40%
3 TO 4	165.88'	S 52° 06' 28" E	121' @ 3.08%
4 TO 5	204.02'	N 68° 29' 34" E	240.5' @ 1.07%

SECTION - LIGHT POLE
SCALE 1" = 1'-0"

NOTE
ALL EXTERIOR LIGHTING SHALL BE LOCATED AND ARRANGED SO AS NOT TO DIRECT GLARE ON ADJOINING STREETS OR RESIDENTIAL PROPERTIES. THE INTENSITY AT ADJOINING STREETS OR RESIDENTIAL PROPERTIES SHALL NOT EXCEED 0.5 FOOT CANDLES

REVISION DATE
12 SEPT 2002

BROOKFIELD COURT
RESIDENTIAL COMMUNITY
ROANOKE COUNTY, VIRGINIA



PROJECT ARCHITECT
RLJ JR

COMMISSION NUMBER
2045

DATE
27 DEC 2000

C3