BURCHMONT LAND
ASSOCIATES, L.L.C.
DB 7852-669

LEVEL 3 COMMUNICATIONS LINE

FENCE ENCROACHES

EXIST. 16" WATERLINE TO SW

EXIST. F.H.

COMMUNICATIONS MANHOLE

COMMUNICATIONS MANHOLE

N74°13'08"E 275.00'

W SIDE YARD

6" FIRE-LINE METER
1.5" DOMESTIC METER
1" IRRIGATION METER

PROPOSED LOCATION OF FIRE DEPARMENT CONNECTION (FDC) INSTALL PER C.F.D. REQUIREMENTS

196.86' TO FDC

6" FIRE LINE
1.5" DOMESTIC

6" DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY INSTALLED ABOVE-GROUND WITHIN INSULATED ENCLOSURE PER CMU REQUIREMENTS.
ENCLOSURE TO INCLUDE DRAIN PORT(S) FOR DISCHARGE WATER PER CMU REQUIREMENTS.
SEE DETAIL, THIS SHEET

1.5" DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY, INSTALLED ABOVE-GROUND WITHIN INSULATED ENCLOSURE PER CMU REQUIREMENTS.
ENCLOSURE TO INCLUDE DRAIN PORT(S) FOR DISCHARGE WATER PER CMU REQUIREMENTS.
SEE DETAIL, THIS SHEET

1" REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY, INSTALLED ABOVE-GROUND WITHIN INSULATED ENCLOSURE PER CMU REQUIREMENTS.
ENCLOSURE TO INCLUDE DRAIN PORT(S) FOR DISCHARGE WATER PER CMU REQUIREMENTS.
SEE DETAIL, THIS SHEET

ERB

C1

EIP

259.94'

N67°44'06"E

10' SIDE YARD

PROPOSED BUILDING
50,050 S.F.
FFE: 690

50' LANDSCAPE BUFFER

90' FRONT SETBACK

30' SIDEYARD SETBACK

4" SANITARY SEWER LINE TO SEPTIC TANK

DETENTION BASIN

44' UNDISTURBED BUFFER YARD

212.02'

S74°21'48"W

218.43'

S67°47'38"W

N12°51'52"W

DB3765-138

CARL C. ALLISON, JR.
& WF. SUSAN KNOX
DB 3171-570

S22°29'33"E

90' UNDISTURBED BUFFER YARD

30' SIDEYARD SETBACK

330.00'

1500 GAL CONC. SEPTIC TANK

DISTRIBUTION BOX

643.96'

909 LF OF SEPTIC DRAIN LINES
9 RUNS - 101' EA
PRIMARY

909 LF OF SEPTIC DRAIN LINES
9 RUNS - 101' EA
REPAIR AREA

10' SIDE YARD

259.67'

S67°51'21"W

BURCHMONT LAND
ASSOCIATES, L.L.C.
DB 7852-669

CITY OF CHARLOTTE

DB 3694-769

CURVE CHART

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	1712.73'	190.32'	95.26'	190.22'	S71°02'07"W	06°22'00"

EXISTING INFORMATION TAKEN FROM SURVEY
BY: STEPHEN B. MULLINS AND ASSOCIATES, P.A.
DATED: 3.9.2004

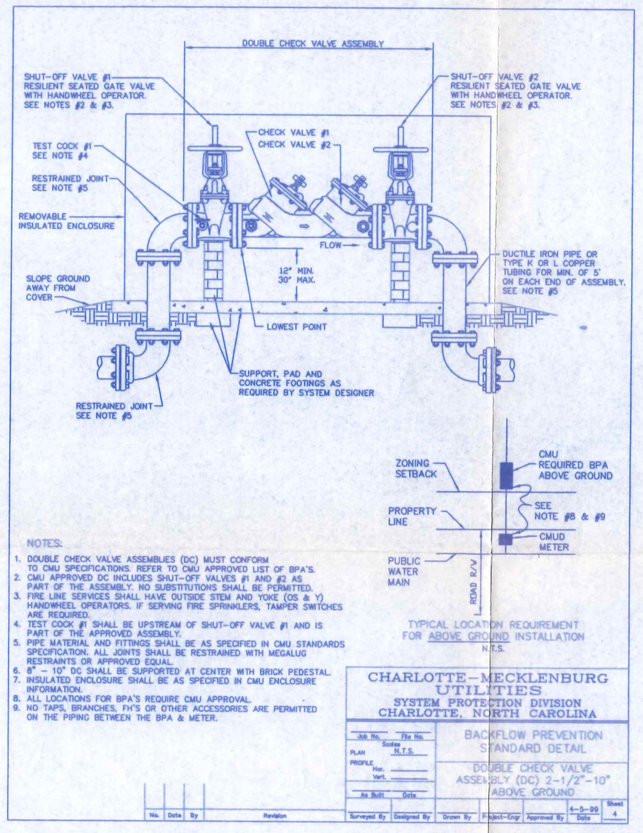
SURVEYOR'S LEGEND

P.D.E.	PUBLIC DRAINAGE EASEMENT	NRB	NEW REBAR
∘ EIP	EXISTING IRON PIPE	∘ ERB	EXISTING REBAR
OHPL	OVERHEAD POWER LINE	ERB-BC	ERB AT BC
∘ CM	CONCRETE MONUMENT	><—><	FENCE LINE
PPOLE	POWER POLE	LPOLE	LIGHT POLE
▭ PB	TRANSFORMER	ⓜ MH	MANHOLE
∘ PHONE	TELEPHONE BOX	∘ CATV	CABLE TV BOX
Ⓣ TNH	TELEPHONE BOX	∘ FOS	FIBER OPTIC SIGN

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.



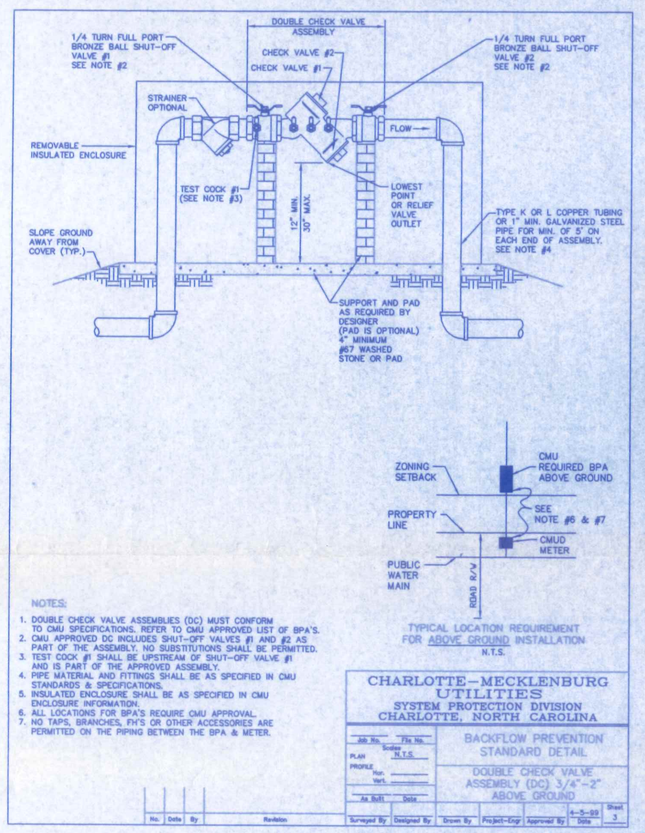
NOTES:
1. DOUBLE CHECK VALVE ASSEMBLIES (DC) MUST CONFORM TO CMU SPECIFICATIONS. REFER TO CMU APPROVED LIST OF BPA'S.
2. CMU APPROVED DC INCLUDES SHUT-OFF VALVES #1 AND #2 AS PART OF THE ASSEMBLY. NO SUBSTITUTIONS SHALL BE PERMITTED.
3. FIRE LINE SERVICES SHALL HAVE OUTSIDE STEM AND YOKE (OS & Y) HANDWHEEL OPERATORS. IF SERVING FIRE SPRINKLERS, TAMPER SWITCHES ARE REQUIRED.
4. TEST COCK #1 SHALL BE UPSTREAM OF SHUT-OFF VALVE #1 AND IS PART OF THE APPROVED ASSEMBLY.
5. PIPE MATERIAL AND FITTINGS SHALL BE AS SPECIFIED IN CMU STANDARDS SPECIFICATION. ALL JOINTS SHALL BE RESTRAINED WITH MEGALUG RESTRAINTS OR APPROVED EQUAL.
6. 6" — 10" DC SHALL BE SUPPORTED AT CENTER WITH BRICK PEDESTAL.
7. INSULATED ENCLOSURE SHALL BE AS SPECIFIED IN CMU ENCLOSURE INFORMATION.
8. ALL LOCATIONS FOR BPA'S REQUIRE CMU APPROVAL.
9. NO TAPS, BRANCHES, FHT'S OR OTHER ACCESSORIES ARE PERMITTED ON THE PIPING BETWEEN THE BPA & METER.

TYPICAL LOCATION REQUIREMENT FOR ABOVE GROUND INSTALLATION
N.T.S.

CHARLOTTE-MECKLENBURG UTILITIES
SYSTEM PROTECTION DIVISION
CHARLOTTE, NORTH CAROLINA

Job No. | File No. | Scale: N.T.S. | BACKFLOW PREVENTION STANDARD DETAIL
PLAN | PROFILE | Hor. | Vert. | DOUBLE CHECK VALVE ASSEMBLY (DC) 2-1/2"-10" ABOVE GROUND
As Built | Date | 4-5-99 | Sheet 4

No. | Date | By | Revision | Surveyed By | Designed By | Drawn By | Project Engr | Approved By | Date



NOTES:
1. DOUBLE CHECK VALVE ASSEMBLIES (DC) MUST CONFORM TO CMU SPECIFICATIONS. REFER TO CMU APPROVED LIST OF BPA'S.
2. CMU APPROVED DC INCLUDES SHUT-OFF VALVES #1 AND #2 AS PART OF THE ASSEMBLY. NO SUBSTITUTIONS SHALL BE PERMITTED.
3. TEST COCK #1 SHALL BE UPSTREAM OF SHUT-OFF VALVE #1 AND IS PART OF THE APPROVED ASSEMBLY.
4. PIPE MATERIAL AND FITTINGS SHALL BE AS SPECIFIED IN CMU STANDARDS & SPECIFICATIONS.
5. INSULATED ENCLOSURE SHALL BE AS SPECIFIED IN CMU ENCLOSURE INFORMATION.
6. ALL LOCATIONS FOR BPA'S REQUIRE CMU APPROVAL.
7. NO TAPS, BRANCHES, FHT'S OR OTHER ACCESSORIES ARE PERMITTED ON THE PIPING BETWEEN THE BPA & METER.

TYPICAL LOCATION REQUIREMENT FOR ABOVE GROUND INSTALLATION
N.T.S.

CHARLOTTE-MECKLENBURG UTILITIES
SYSTEM PROTECTION DIVISION
CHARLOTTE, NORTH CAROLINA

Job No. | File No. | Scale: N.T.S. | BACKFLOW PREVENTION STANDARD DETAIL
PLAN | PROFILE | Hor. | Vert. | DOUBLE CHECK VALVE ASSEMBLY (DC) 3/4"-2" ABOVE GROUND
As Built | Date | 4-5-99 | Sheet 5

No. | Date | By | Revision | Surveyed By | Designed By | Drawn By | Project Engr | Approved By | Date

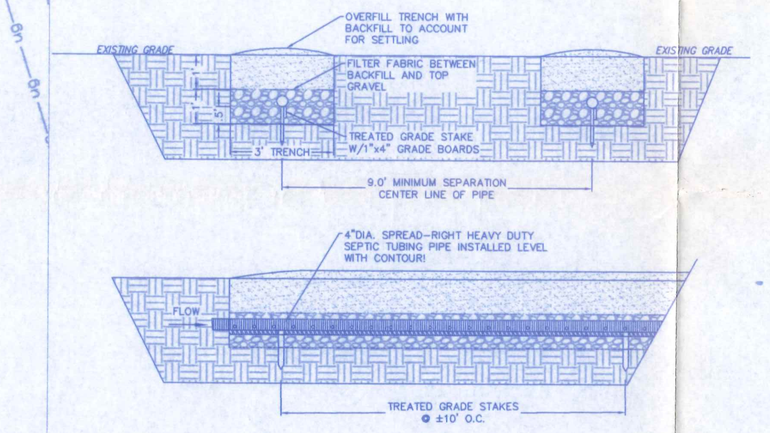
SEPTIC CALCS.

EMPLOYEES: 30
SOIL ACCEPTANCE RATE: 0.275 GAL/SF
USE: 25 GAL./EMPLOYEE/DAY

DESIGN FLOW:
Q=30EMP.*25GAL./EMP./DAY
Q=750 GAL./DAY

SEPTIC FIELD AREA REQUIRED:
AREA=Q/ACCEPTANCE RATE
AREA = 750 GAL./DAY/0.275
AREA = 2727.3 S.F.
ASSUMING TRENCHES 3' WIDE,
FIELD REQUIRES 909.1 L.F. TRENCH
USE: 9 RUNS, 101' LONG

SEPTIC TANK CAPACITY:
SINCE DESIGN FLOW IS 600-1500 GPD
V=1.17Q+500
V= 1.17(750)+500
V= 1377.5 GAL. TANK
SPECIFY 1500 GAL TANK



UTILITY NOTES:
1. EACH CMU-REQUIRED BPA IS REQUIRED TO BE TESTED BY A CMU-APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM IN SERVICE.
2. THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPT. CONNECTION POINTS, OR OTHER WATER-USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND ITS CMU-REQUIRED BACKFLOW PREVENTER.
3. CONDUIT SUPPLIED FOR TAMPER SWITCHES TO BE INSTALLED ON GATE VALVES OF BPA'S ON SUPPLY LINES THAT SERVE THE FIRE SPRINKLER SYSTEMS. THESE TAMPER SWITCHES SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM.

BACKFLOW PREVENTER INSPECTION REQUIREMENTS:
INSTALLER MUST OBTAIN FIELD APPROVAL OF EACH INSTALLATION FROM A CMUD BACKFLOW PREVENTION (BP) CONSTRUCTION INSPECTOR PRIOR TO PLACING THE WATER SYSTEM IN SERVICE. CALL 391-5188 TO REQUEST INSPECTION OR ON-SITE ASSISTANCE. ALLOW THREE WORKING DAYS FROM THE DATE OF REQUEST FOR THE INSPECTION TO BE COMPLETED. NOTE THAT THE CERTIFICATE OF OCCUPANCY WILL BE WITHHELD UNTIL THE BP CONSTRUCTION INSPECTOR APPROVES EACH INSTALLATION. ANY CHANGE AFFECTING COMPLIANCE WITH CMUD'S REQUIREMENTS REQUIRES APPROVAL FROM THE BP CONSTRUCTION INSPECTOR.

APPROVED FOR CONSTRUCTION
JUL 15 2004
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL NO. 23101 SPIRO CHARLES HONDROS
Spiro C. Hondros

NO.	DATE	APP'D	DESCRIPTION
D	-		-
C	-		-
B	-		-
A	7.6.04		ISSUED FOR SEPTIC PERMIT

REVISIONS

OWNERS APPROVAL: | DATE: | PART NO. 2003/proj/P_STFS-ACS/ltl/CSH/dwg/P@proj_SHEET.dwg

DRN BY: JRP | CHK BY: --- | DATE: 4.13.04 | SCALE: AS NOTED

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UTILITY PLAN

SP-6 OF 7