CONTROL ROOM

DUAL-CHANNEL
EIA-232/SM FIBER-OPTIC
CONVERTER (TYP. OF 8)

12-STRAND, SINGLE-MODE
FIBER-OPTIC CABLE

12-STRAND,
SINGLE-MODE
FIBER-OPTIC CABLE
TO OTHER FOUR WELL
SITES.

WELL SITE PLC
(PLCs W1 THROUGH W5)

EIA-232

WELL NO. 1
(TYPICAL OF FIVE INSTALLATIONS)

EIA-232
EIA-232
EIA-232
PORT SHARING
DEVICE

OFFICE WORKSTATION
(FUTURE)

NETWORK
RECEPTACLE
AND
WALLPLATE
(TYP.)

CAT-5

CONTROL ROOM
WORKSTATION RUNNING
"OPERATOR 10" SOFTWARE
(SOFTWARE FURNISHED BY
OWNER)

CAT-5

SERVER /WORKSTATION
COMPUTER

CAT-5

SERVER /WORKSTATION
COMPUTER

TO DIAL-UP TELEPHONE SERVICE
(FOR REMOTE ACCESS AND FUTURE PCS
COMMUNICATIONS FROM REMOTE SITES.)

ALARMS/EVENTS PRINTER

REPORT PRINTER

ALL METALLIC
ETHERNET CABLE TO
BE CATEGORY 5

CAT-5

10/100BASE-T/
FIBER-OPTIC
CONVERTER

12 STRAND, SINGLE MODE
FIBER-OPTIC CABLE
(FURNISHED AND INSTALLED BY
OTHERS)

CAT-5

TOWER AND WELL PLC
(PLC T3)

TOWER AND WELL NO. 3
NEAR INTERSECTION OF NORTH MAIN ST. (MISSOURI
ROUTE M) AND TOM GINNEVER AVE.

CAT-5

10/100 BASE-T
ETHERNET SWITCH

CAT-5

10/100BASE-T/
FIBER-OPTIC
CONVERTER

12-STRAND
MULTIMODE
FIBER-OPTIC
CABLE

NOTE: THE DISTANCES BETWEEN THE WATER TREATMENT PLANT AND THE REMOTE WELL LOCATIONS AS MEASURED ALONG THE CENTERLINE OF THE RAW WATER TRANSMISSION MAIN ARE AS FOLLOWS;

- FROM PLANT INFLUENT FLOW CONTROL FACILITY TO WELL #1 3105
- FROM WELL #1 TO WELL #2 - 1300 FEET
- FROM WELL #2 TO WELL #3 - 1410 FEET
- FROM WELL #3 TO WELL #4 - 1270 FEET
- FROM WELL #4 TO WELL #5 - 1315 FEET

CAT-5

CAT-5

CAT-5

CAT-5

SERIAL DATA LINK

CAT-5

CAT-5

CAT-5

HIGH SERVICE PUMP PLC (PLC P)

CHEM. STORAGE & FEED PLC (PLC C)

ELECTRICAL EQPT. ROOM PLC (PLC E)

FILTER AREA PLC (PLC F)

R.O. SYSTEM PLC
(FURNISHED UNDER SECTION 13025)

FILTERS 1 & 2
WORKSTATION

FILTERS 3 & 4
WORKSTATION

10/100BASE-T/
FIBER-OPTIC
CONVERTER

CAT-5

PCS WORKSTATION

WASTEWATER TREATMENT PLANT
ADMINISTRATION BUILDING OFFICE
(ACROSS FIRMA ROAD)

WATER TREATMENT PLANT

NO.	BY	CK	APP
2			
1			

CONFORMED TO CONSTRUCTION RECORDS
ADDENDUM
REVISIONS AND RECORD OF ISSUE
DATE

CYGNET ID:
SAVED:
DMG VER #:
PLOTTED:
USER:
SM:
XREF1 ID:
XREF2 ID:
XREF3 ID:
XREF4 ID:
XREF5 ID:

"THIS DRAWING WAS ORIGINALLY APPROVED FOR CONSTRUCTION BY JOHN E. ROUSH JR. ON 10-08-2001 AND SEALED BY JOHN E. ROUSH JR. A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MISSOURI, NO. E-28417"

BLACK & VEATCH Corporation
St. Louis, Missouri

CITY OF O'FALLON, MISSOURI
WATER TREATMENT PLANT
FUNCTIONAL BLOCK DIAGRAM

DESIGNED:	JER
DETAILED:	JER
CHECKED:	MJP
APPROVED:	JER
DATE:	10/08/01

PROJECT NO.
97515

N20

SHEET
93 OF 96

F097515
D097515

97515-300-I-T00000CIX