

**OHIO COUNTY WATER
DISTRICT**

OHIO COUNTY, KENTUCKY

**SERIES III
WATER SYSTEM IMPROVEMENTS
(HYDRAULIC DOCUMENTATION)**

OCWD EAST PRESSURE ZONE

PLEASANT RIDGE PRESSURE ZONE

NOVEMBER, 2002

**HUNTER MARTIN & ASSOCIATES, INC.
ENGINEERS & SURVEYORS**

3220 LONE OAK ROAD, PADUCAH, KY. 42003 (270) 554-2737

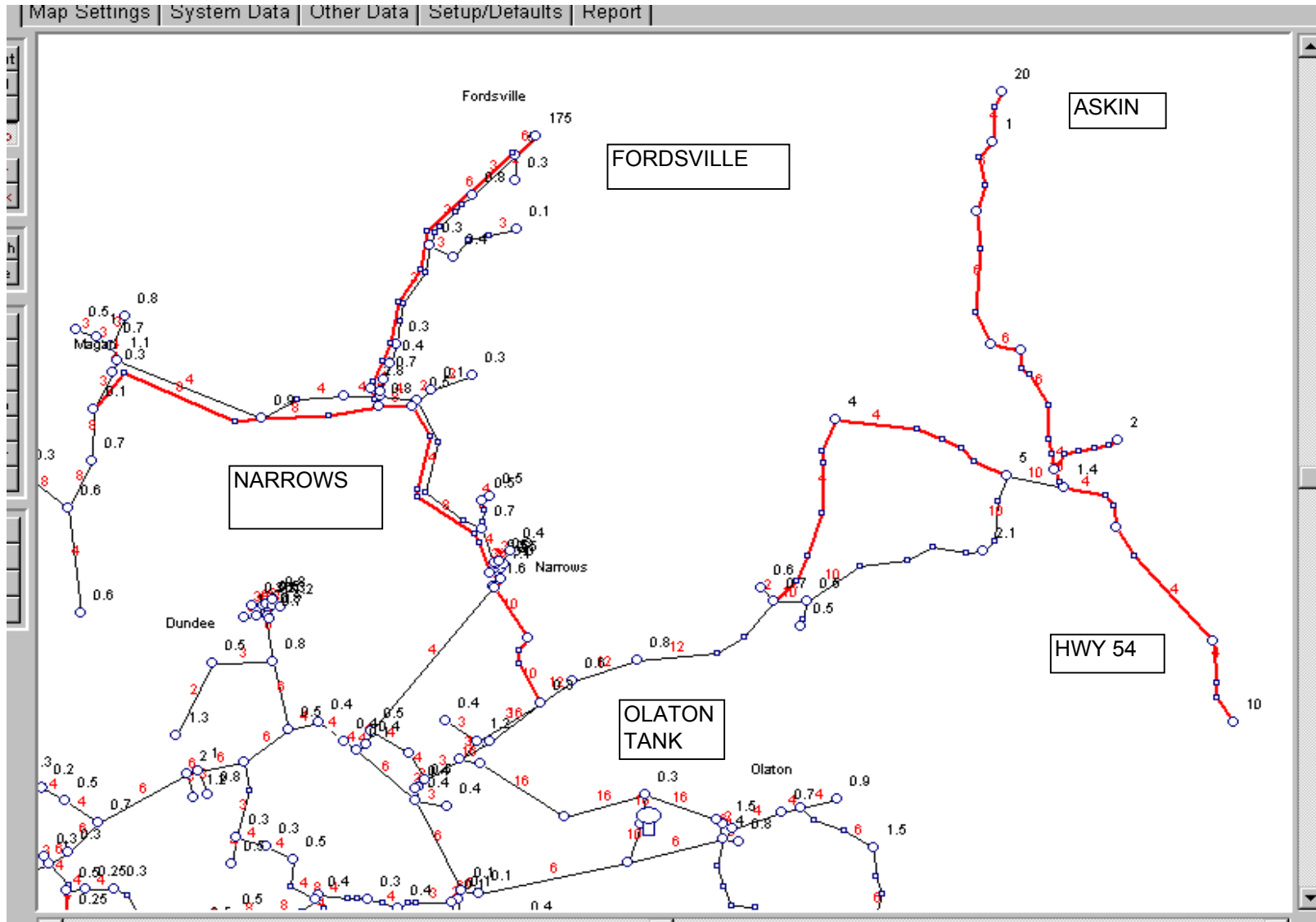


OHIO COUNTY WATER DISTRICT

OCWD EAST PRESSURE ZONE

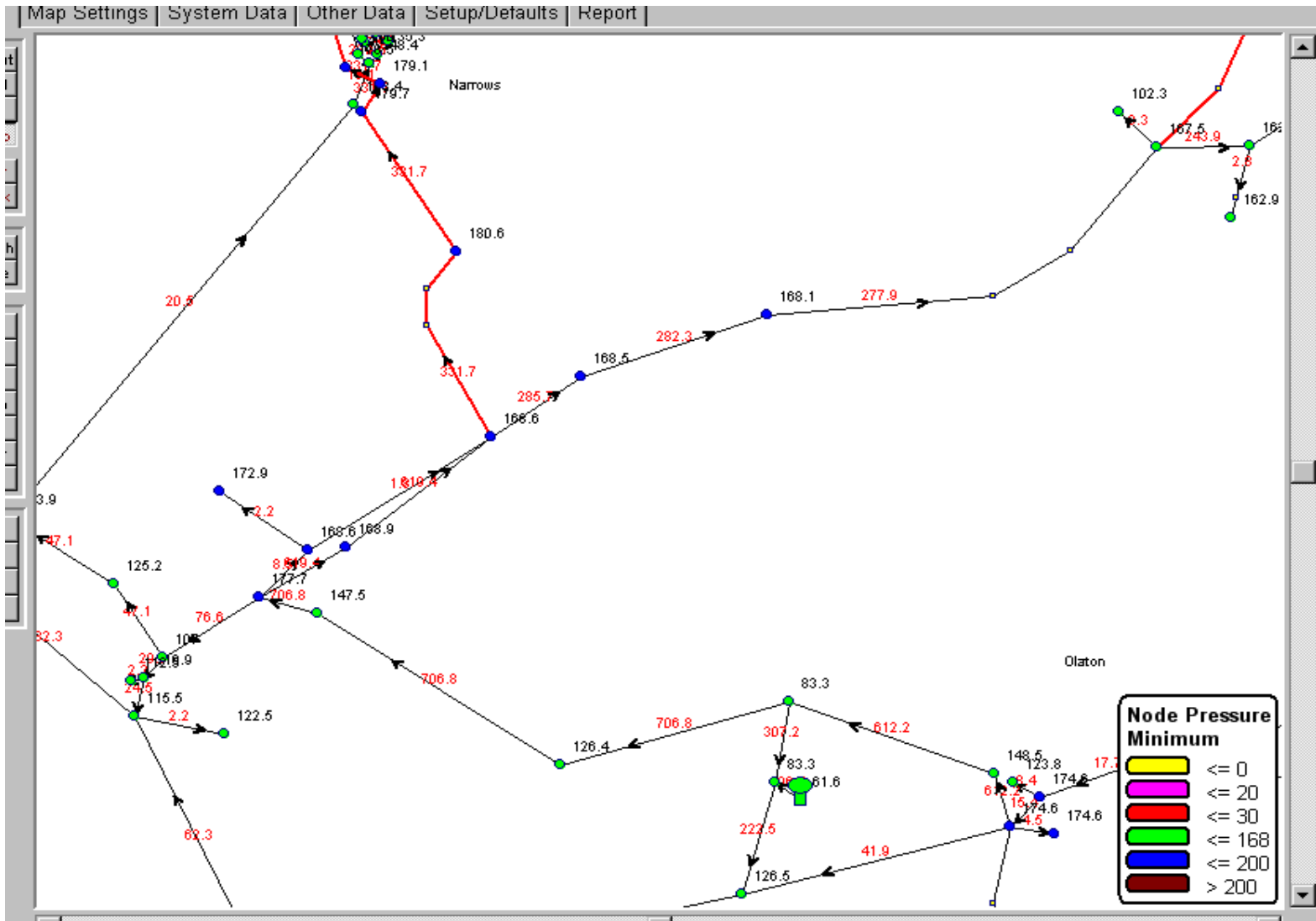
EXTENDED PERIOD SIMULATION

OHIO COUNTY WATER DISTRICT
SERIES III & FORDSVILLE CONNECTION
PROPOSED MAINS HIGHLIGHTED
CONFIGURED DEMANDS SHOWN IN BLACK, GPM
PIPE DIAMETER SHOWN IN RED, INCHES



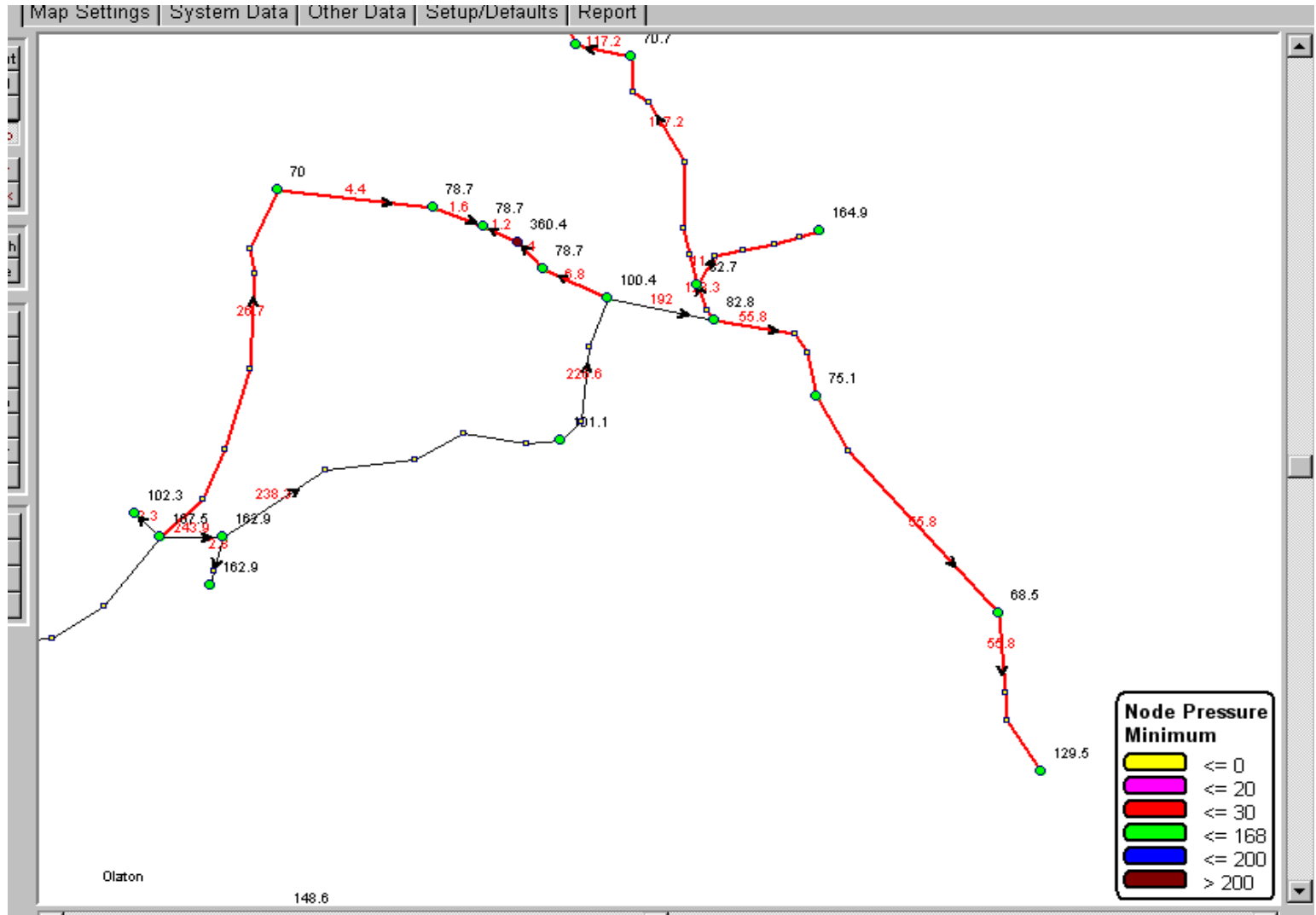
OHIO COUNTY WATER DISTRICT
 SERIES III & FORDSVILLE CONNECTION

LONG RANGE MAXIMUM DAILY FLOW
 24 HOUR EXTENDED PERIOD SIMULATION HAVING A DIURNAL FLOW PATTERN IN ACCORDANCE W/ AWWA
 MINIMUM PRESSURES SHOWN IN BLACK, PSI
 MAXIMUM FLOWS SHOWN IN RED, GPM
 VIEW: OLATON TANK



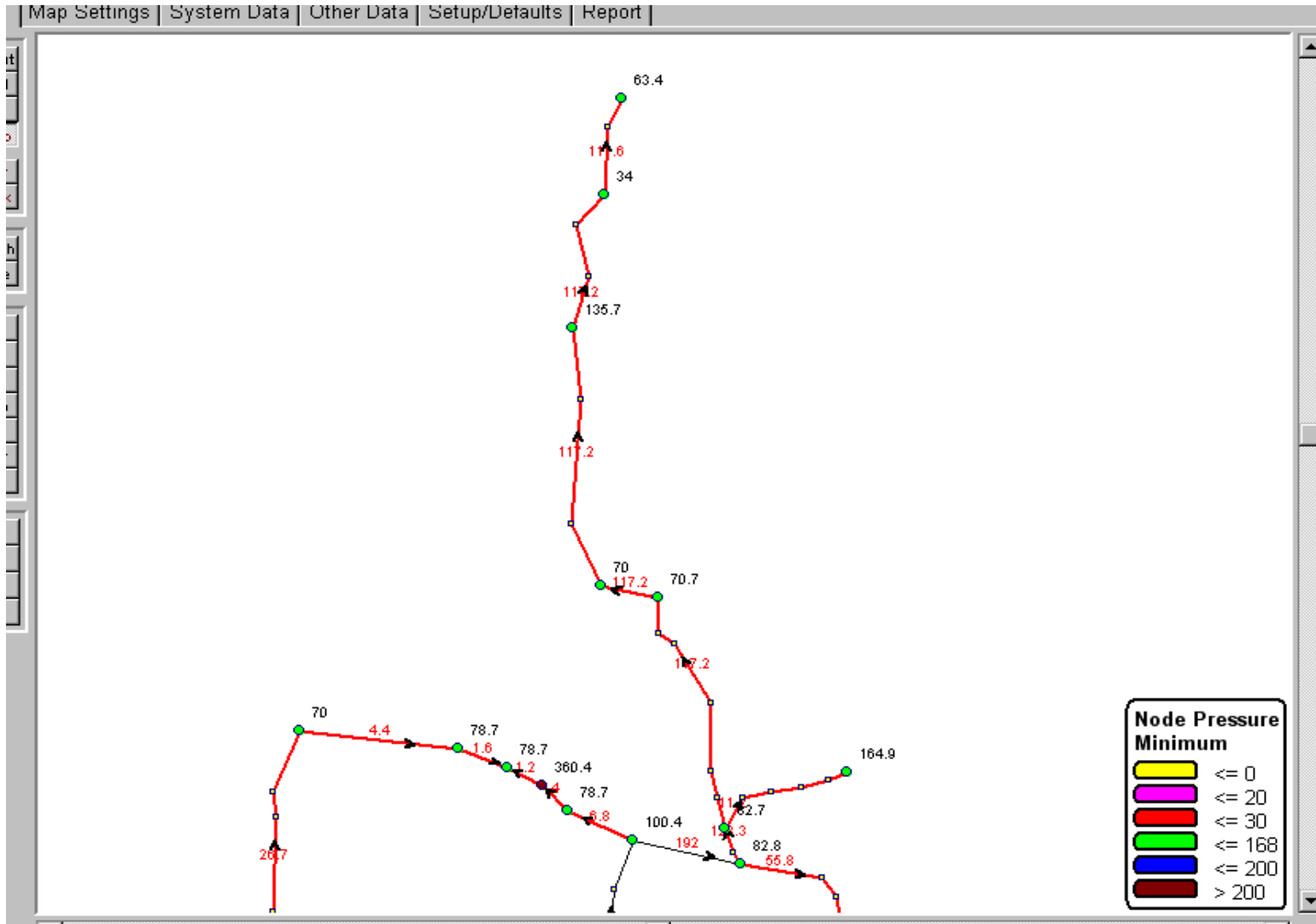
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 MAXIMUM FLOWS SHOWN IN RED, GPM
 VIEW: HWY 54



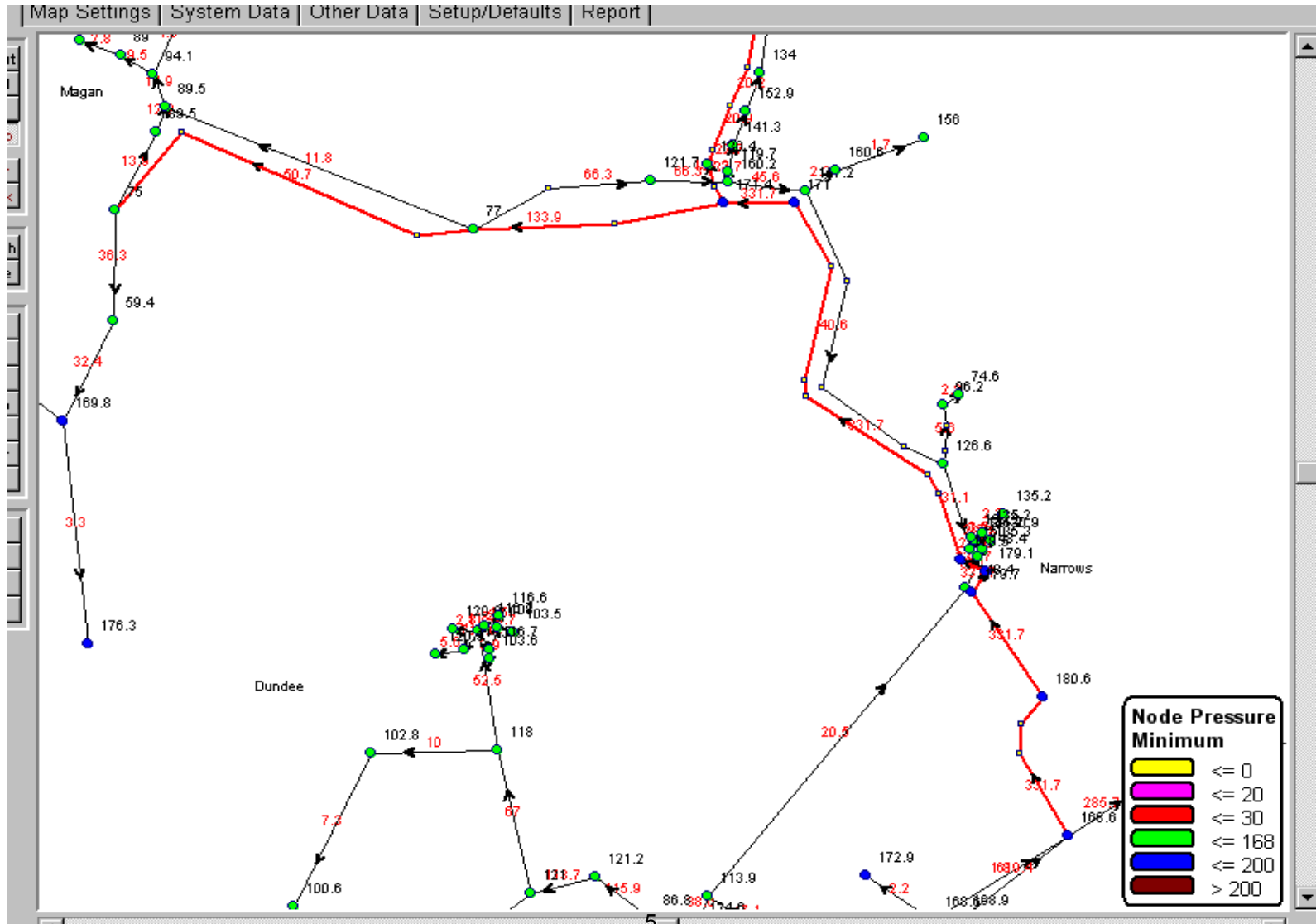
OHIO COUNTY WATER DISTRICT
SERIES III & FORDSVILLE CONNECTION

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MAXIMUM FLOWS SHOWN IN RED, GPM
VIEW: ASKIN



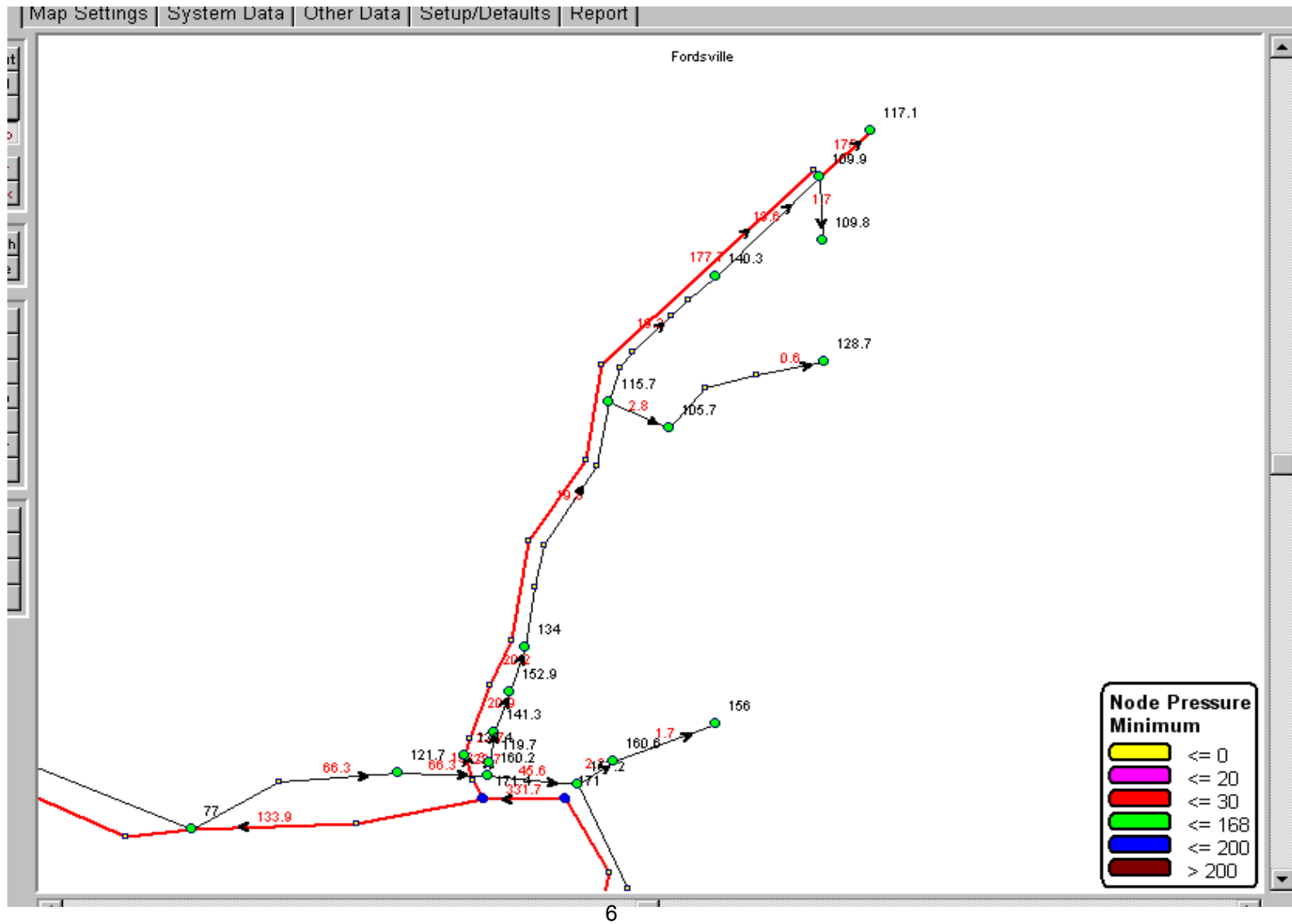
OHIO COUNTY WATER DISTRICT
SERIES III & FORDSVILLE CONNECTION

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MAXIMUM FLOWS SHOWN IN RED, GPM
VIEW: NARROWS



OHIO COUNTY WATER DISTRICT
SERIES III & FORDSVILLE CONNECTION

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MINIMUM PRESSURES SHOWN IN BLACK, PSI
MAXIMUM FLOWS SHOWN IN RED, GPM
VIEW: FORDSVILLE



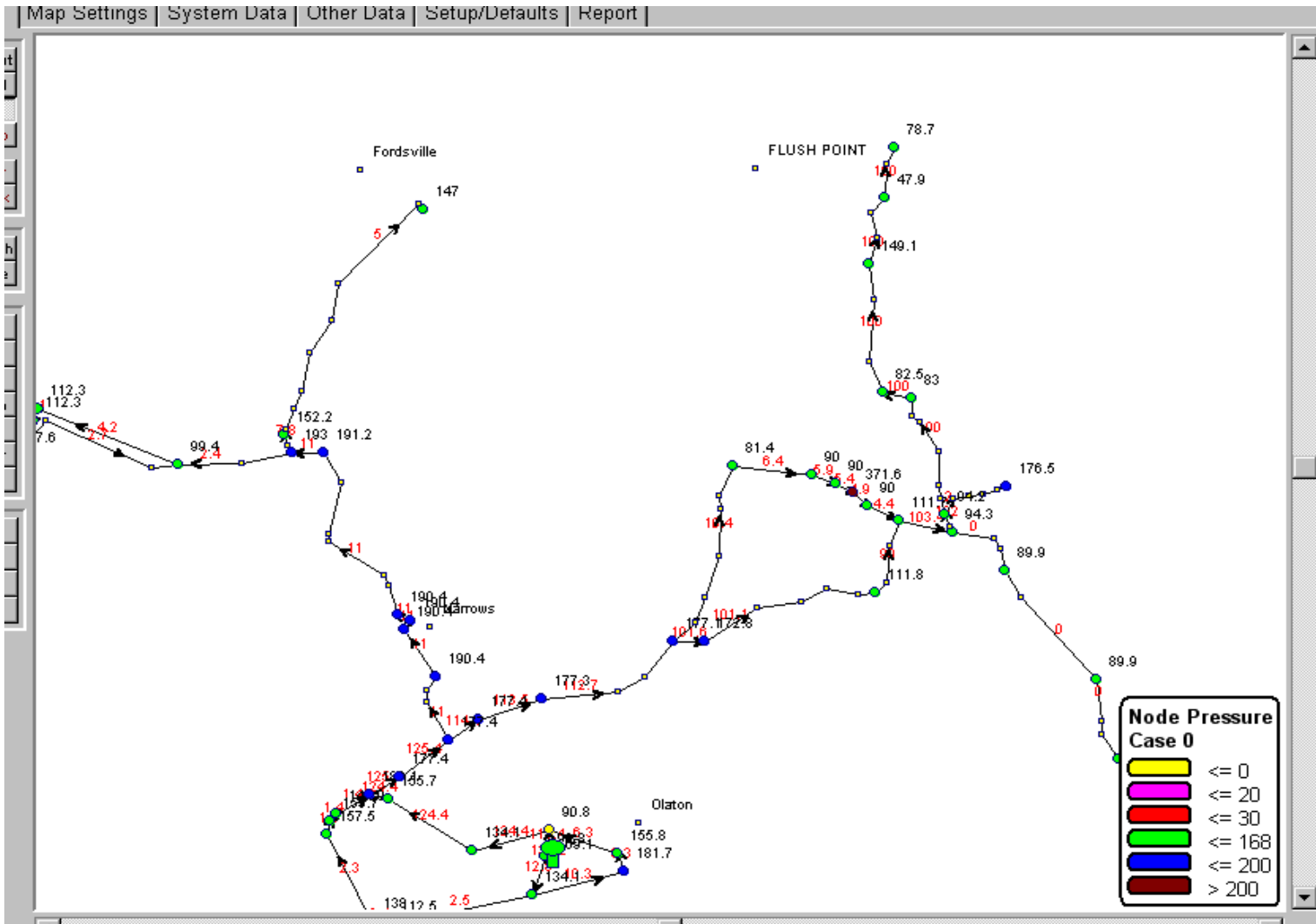
OHIO COUNTY WATER DISTRICT

OCWD EAST PRESSURE ZONE

FLUSHING MAINS

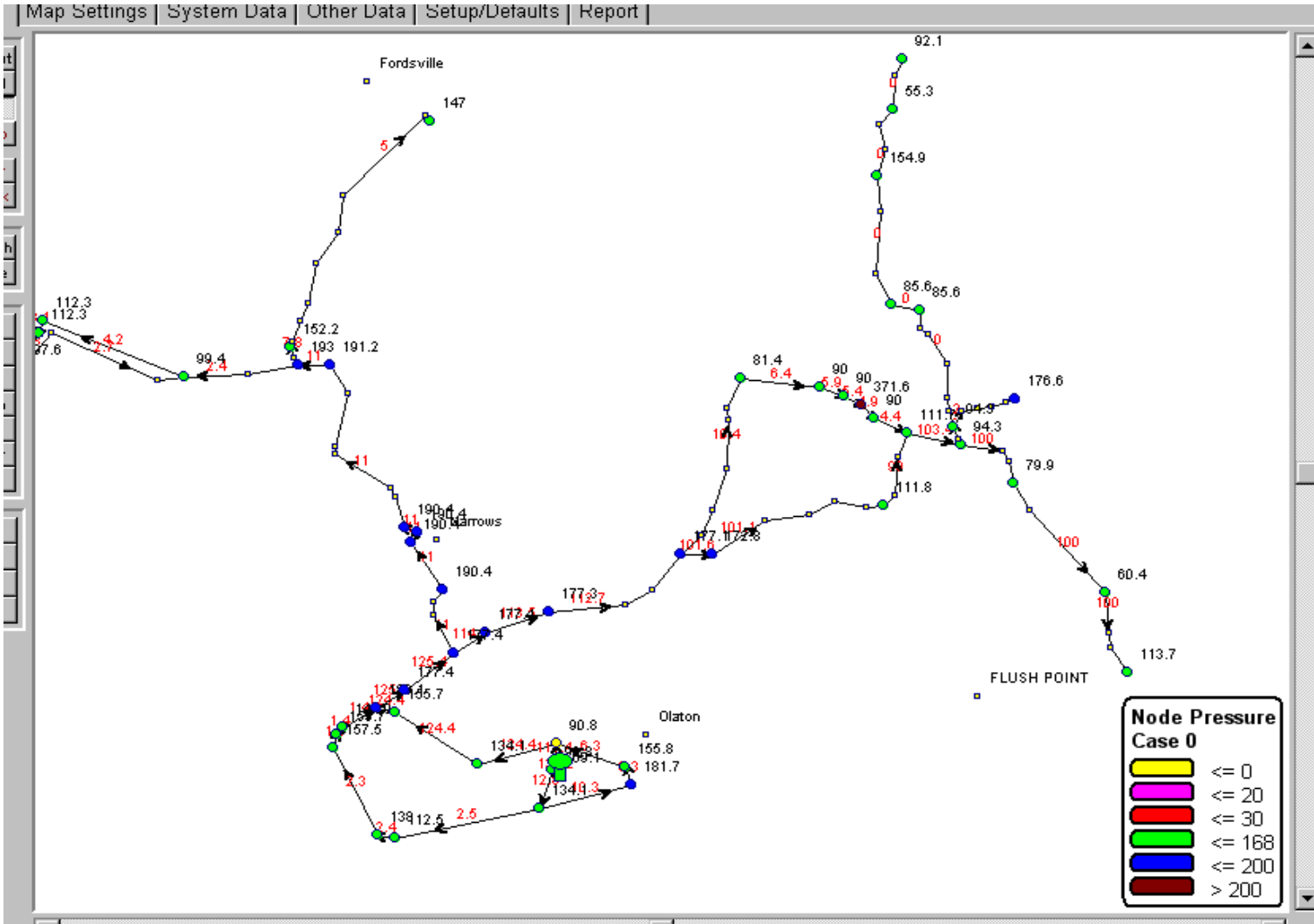
OHIO COUNTY WATER DISTRICT
SERIES III & FORDSVILLE CONNECTION

FLUSHING OF NEW MAINS TO CREATE VELOCITY = 2.5 FPS
RESIDUAL PRESSURES SHOWN IN BLACK, PSI
FLOWS SHOWN IN RED, GPM



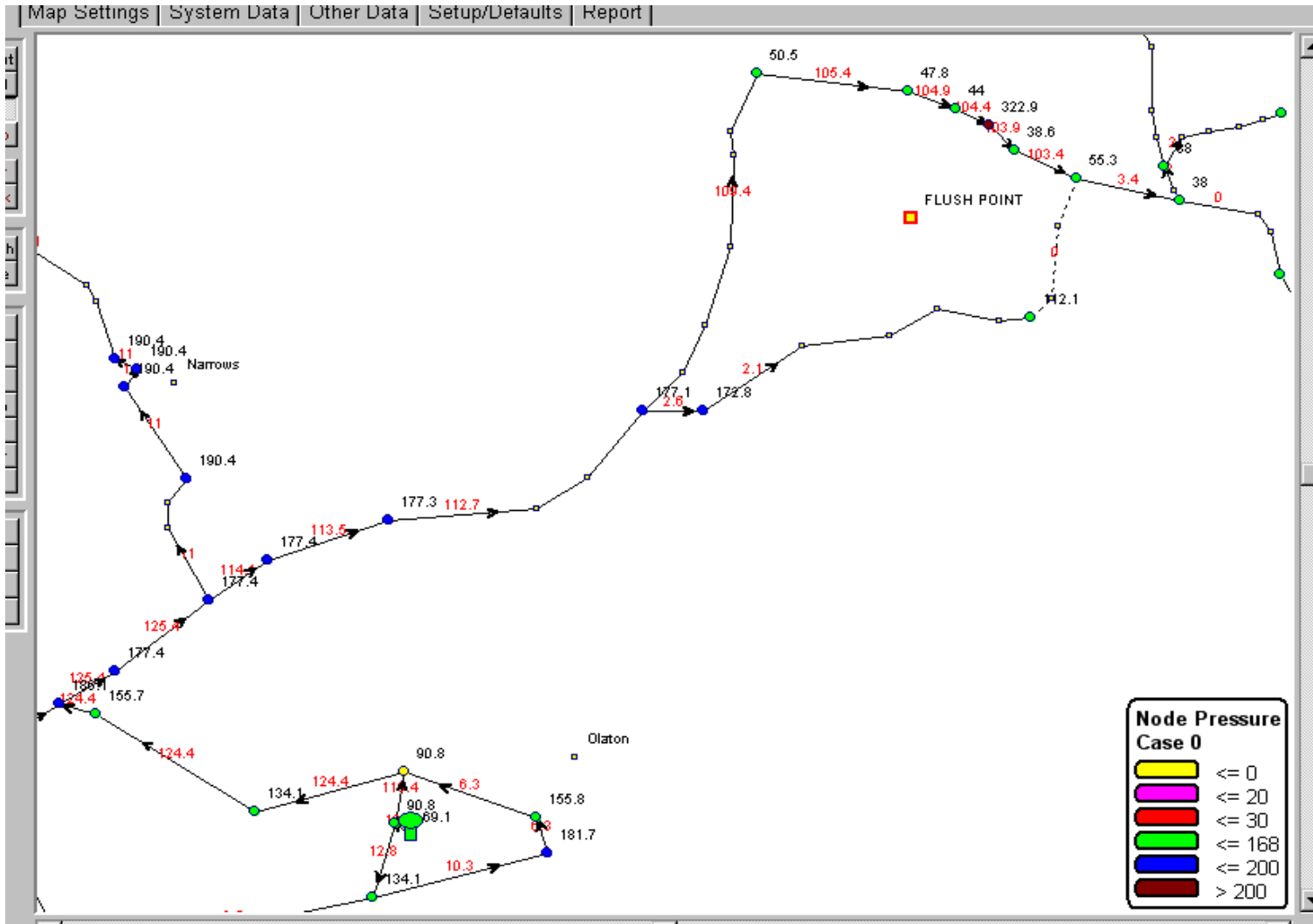
OHIO COUNTY WATER DISTRICT
 SERIES III & FORDSVILLE CONNECTION

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 RESIDUAL PRESSURES SHOWN IN BLACK, PSI
 FLOWS SHOWN IN RED, GPM



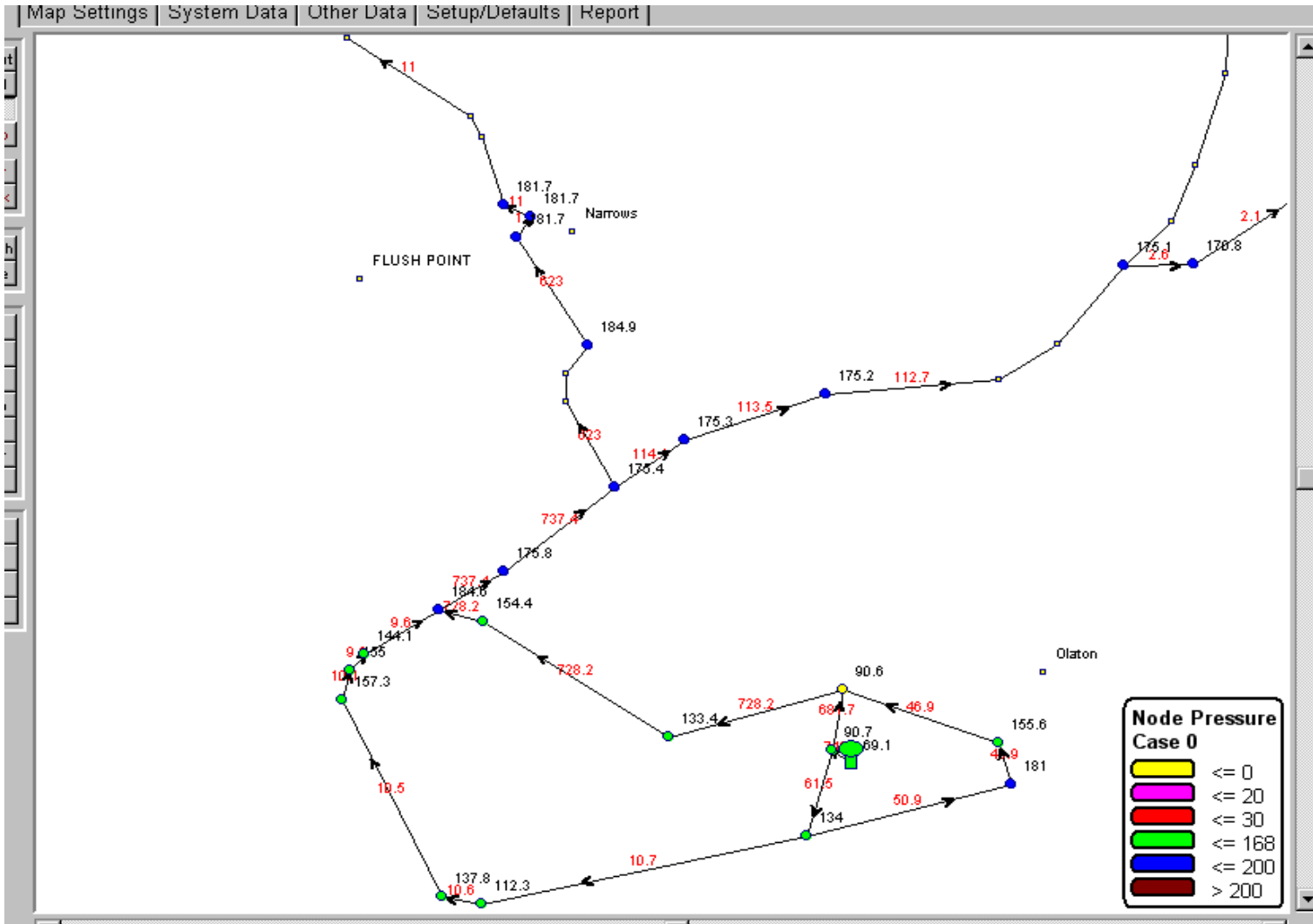
OHIO COUNTY WATER DISTRICT
 SERIES III & FORDSVILLE CONNECTION

FLUSHING OF NEW MAINS TO CREATE VELOCITY = 2.5 FPS
 (RESIDUAL PRESSURES SHOWN IN BLACK, PSI)
 (FLOWS SHOWN IN RED, GPM)



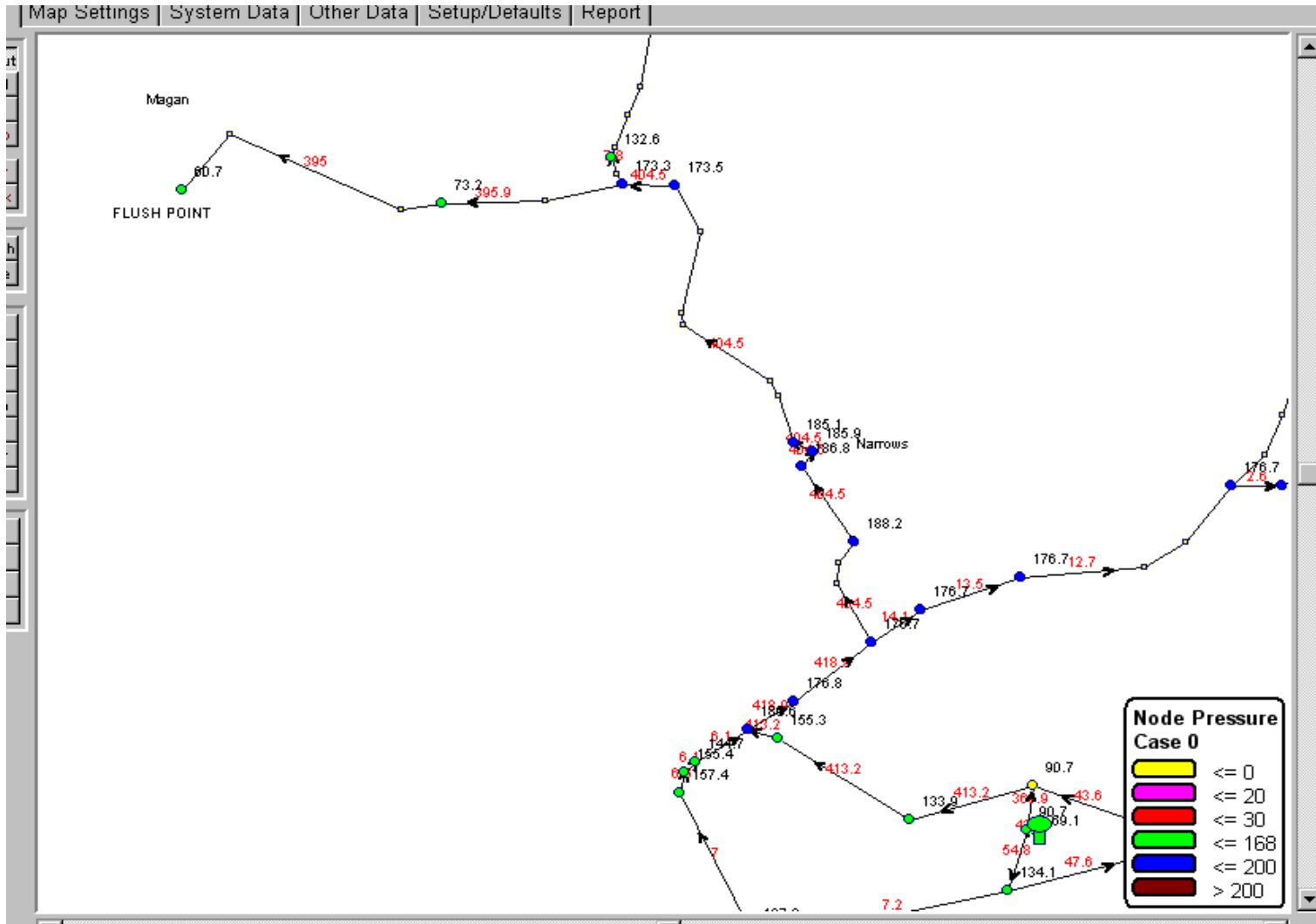
OHIO COUNTY WATER DISTRICT
 SERIES III & FORDSVILLE CONNECTION

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 FLOWS SHOWN IN RED, GPM



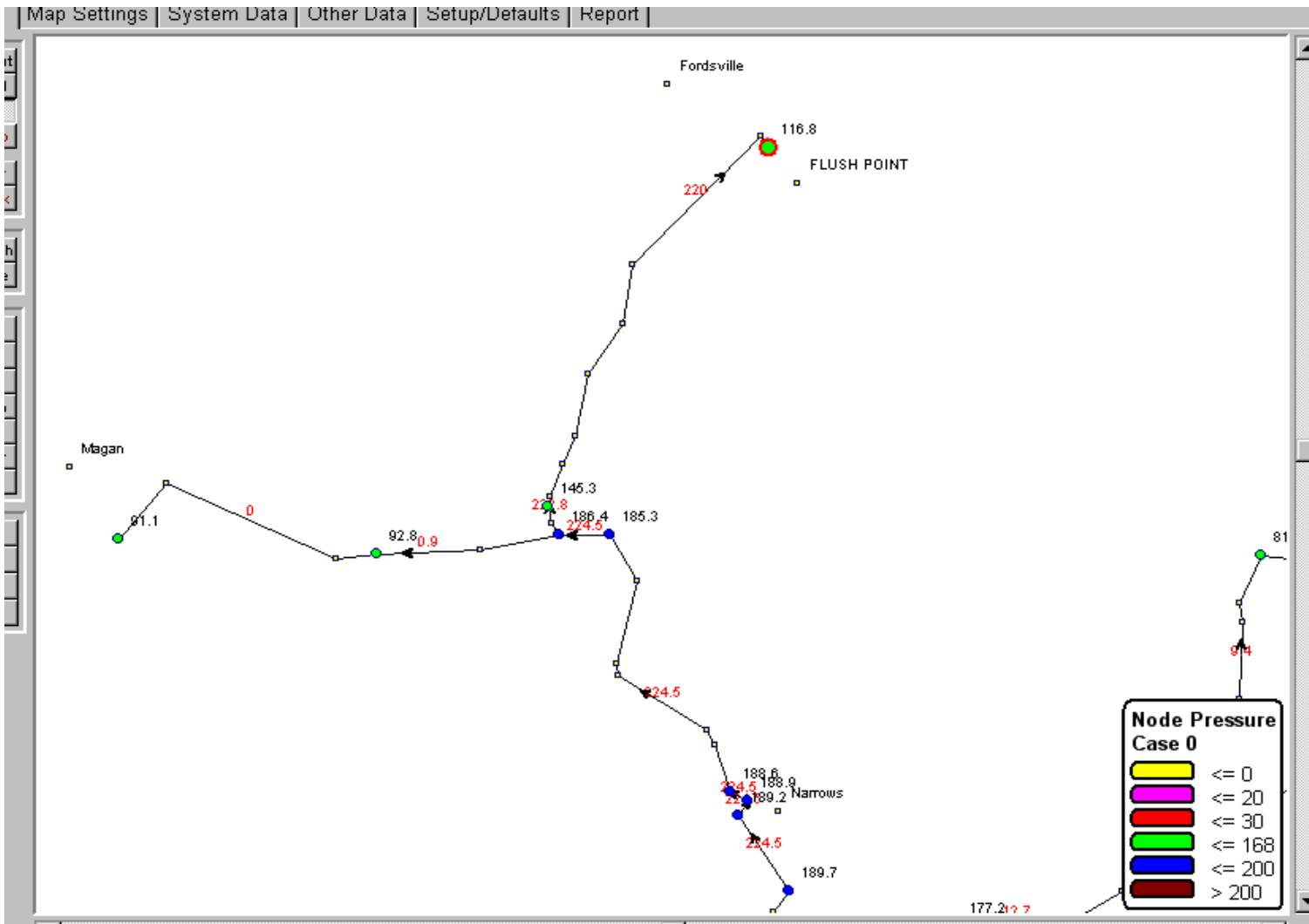
OHIO COUNTY WATER DISTRICT
 SERIES III & FORDSVILLE CONNECTION

FLUSHING OF NEW MAINS TO CREATE VELOCITY = 2.5 FPS
 RESIDUAL PRESSURES SHOWN IN BLACK, PSI
 FLOWS SHOWN IN RED, GPM



OHIO COUNTY WATER DISTRICT
SERIES III & FORDSVILLE CONNECTION

FLUSHING OF NEW MAINS TO CREATE VELOCITY = 2.5 FPS
RESIDUAL PRESSURES SHOWN IN BLACK, PSI
FLOWS SHOWN IN RED, GPM

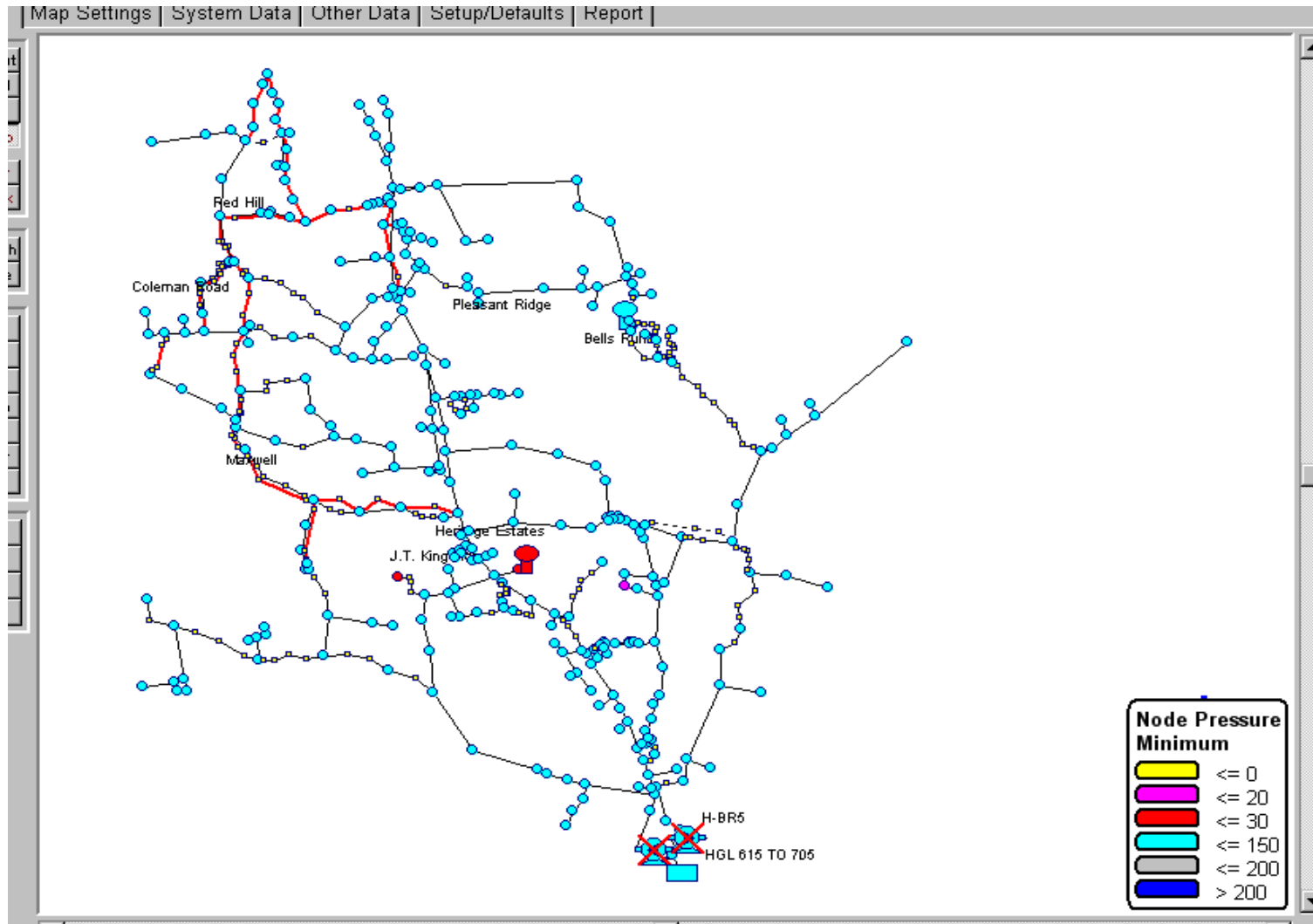


OHIO COUNTY WATER DISTRICT

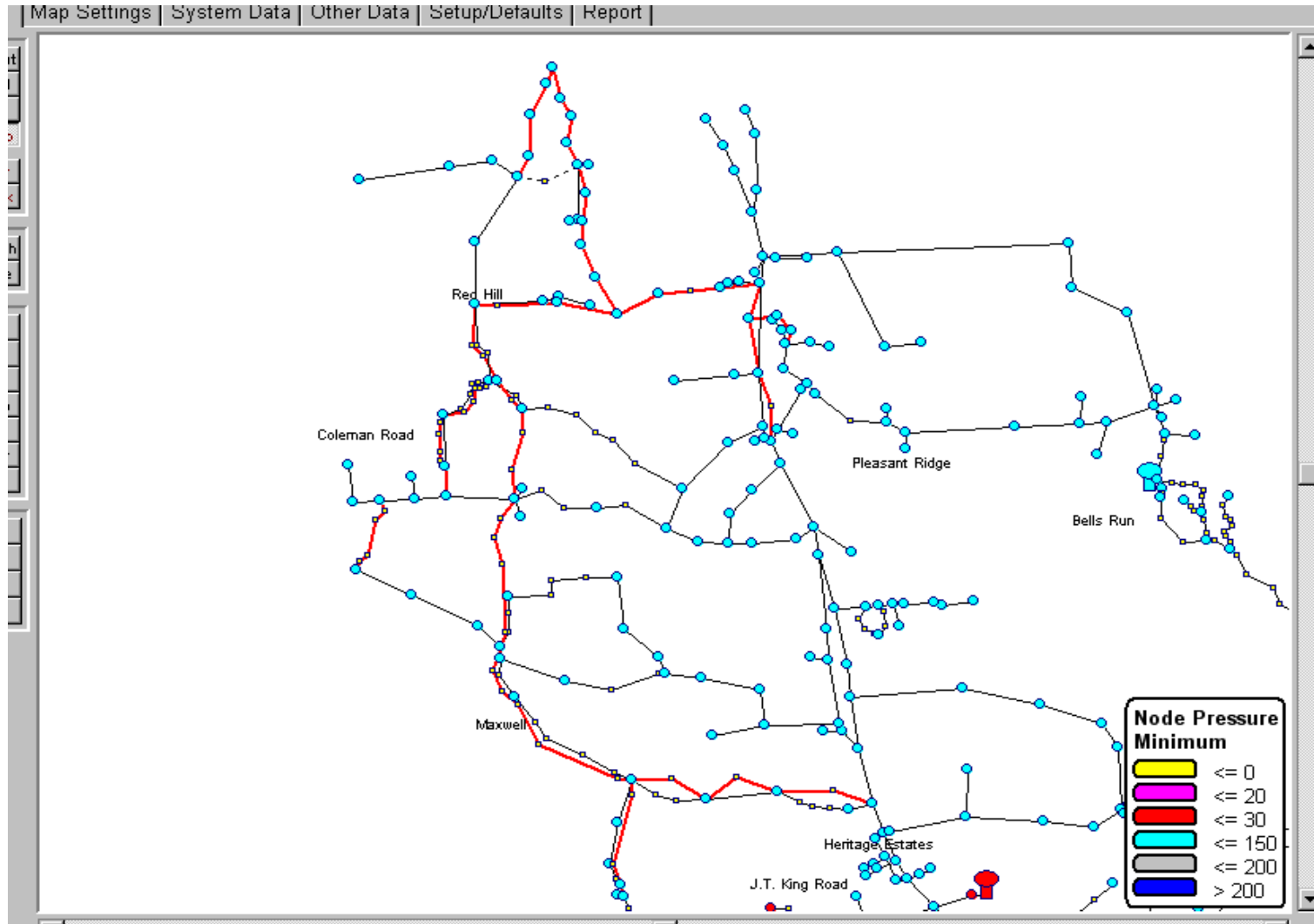
PLEASANT RIDGE PRESSURE ZONE

EXTENDED PERIOD SIMULATION

OHIO COUNTY WATER DISTRICT
PLEASANT RIDGE IMPROVEMENTS
PROPOSED MAINS HIGHLIGHTED
OVERALL PRESSURE ZONE

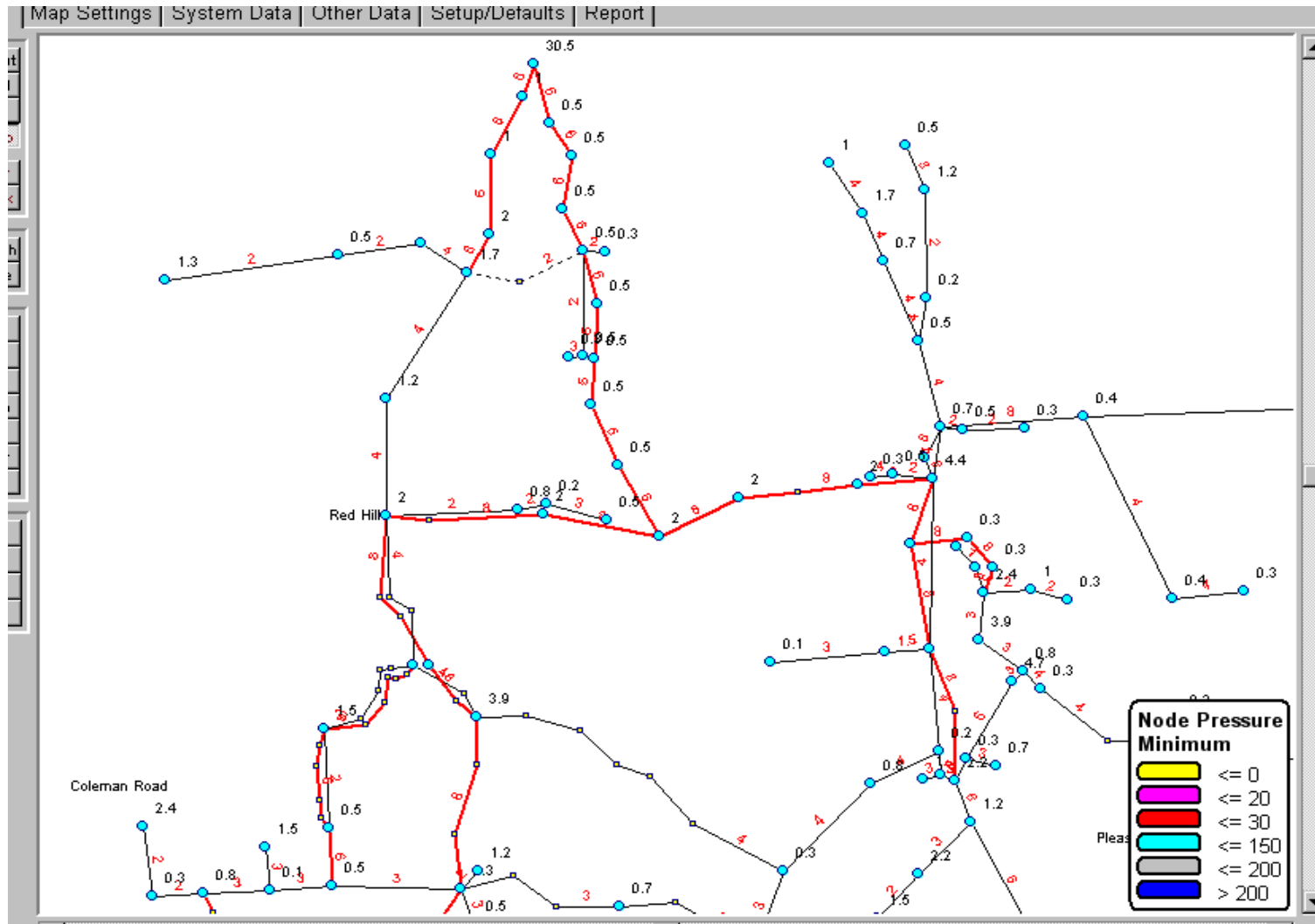


OHIO COUNTY WATER DISTRICT
PLEASANT RIDGE IMPROVEMENTS
PROPOSED MAINS HIGHLIGHTED
OVERALL AREA OF IMPROVEMENTS

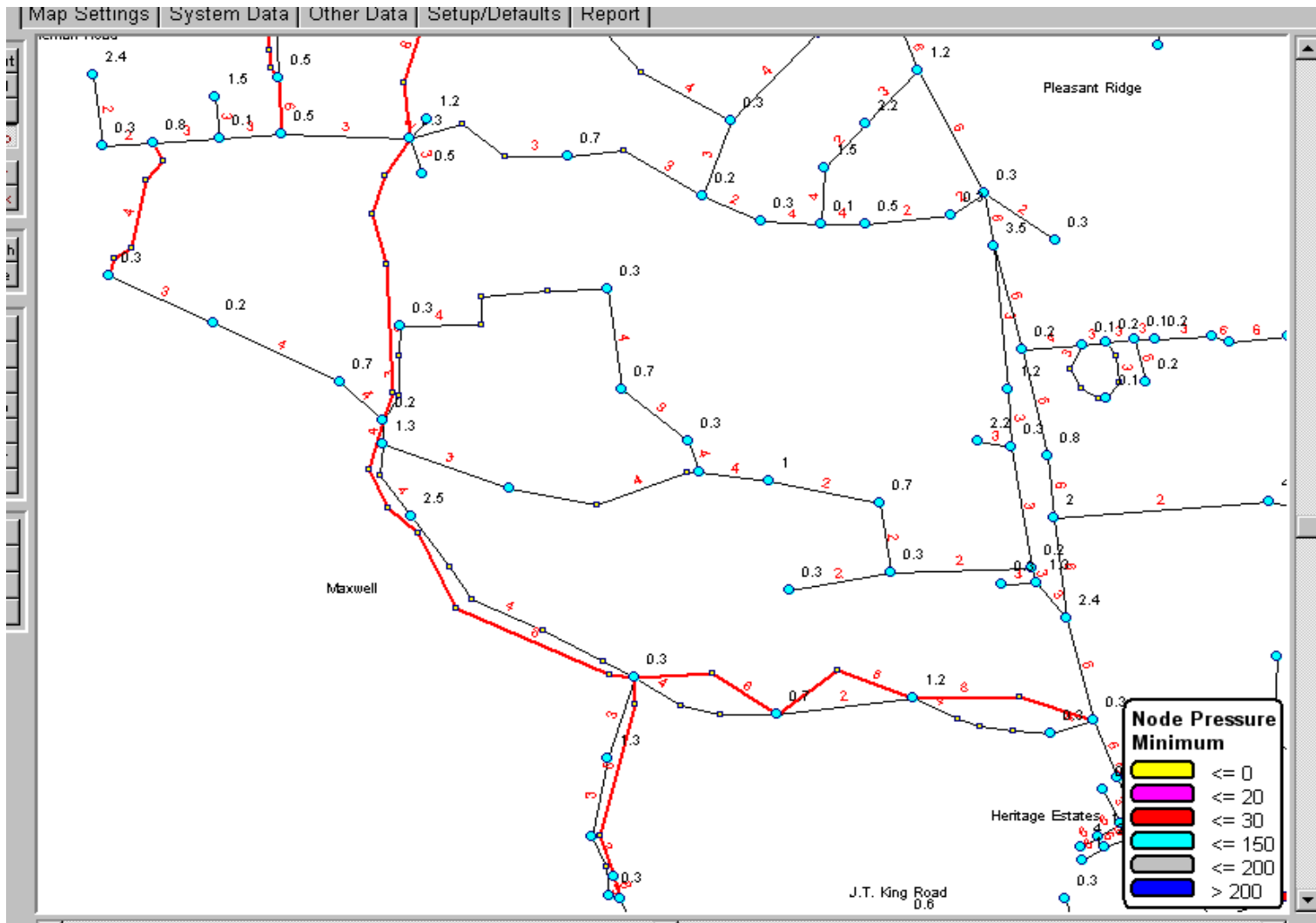


OHIO COUNTY WATER DISTRICT
PLEASANT RIDGE IMPROVEMENTS

PROPOSED MAINS HIGHLIGHTED
CONFIGURED DEMANDS SHOWN IN BLACK, GPM
PIPE DIAMETER SHOWN IN RED, INCHES
VIEW: NORTH

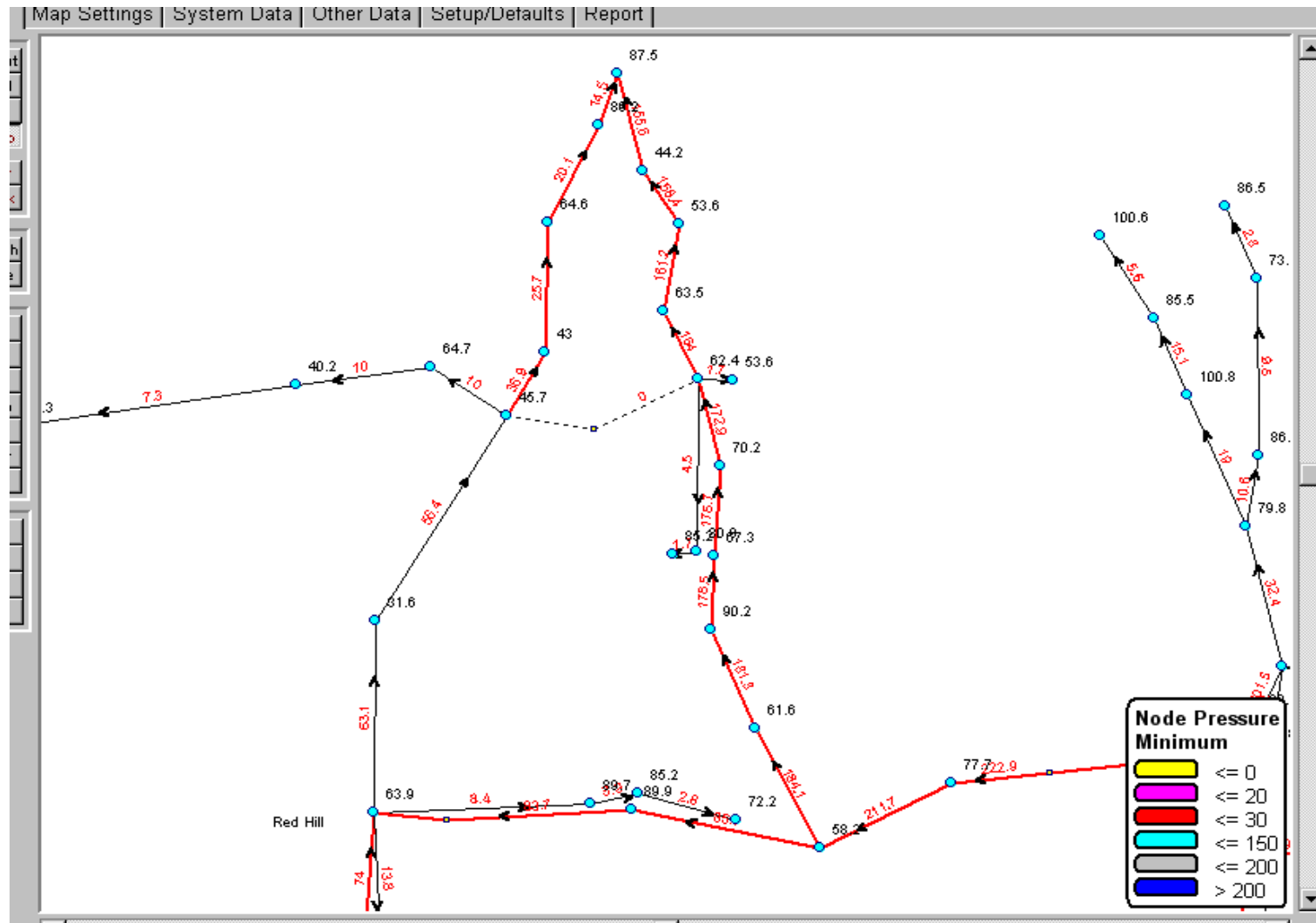


OHIO COUNTY WATER DISTRICT
 PLEASANT RIDGE IMPROVEMENTS
 PROPOSED MAINS HIGHLIGHTED
 CONFIGURED DEMANDS SHOWN IN BLACK, GPM
 PIPE DIAMETER SHOWN IN RED, INCHES
 VIEW: SOUTH



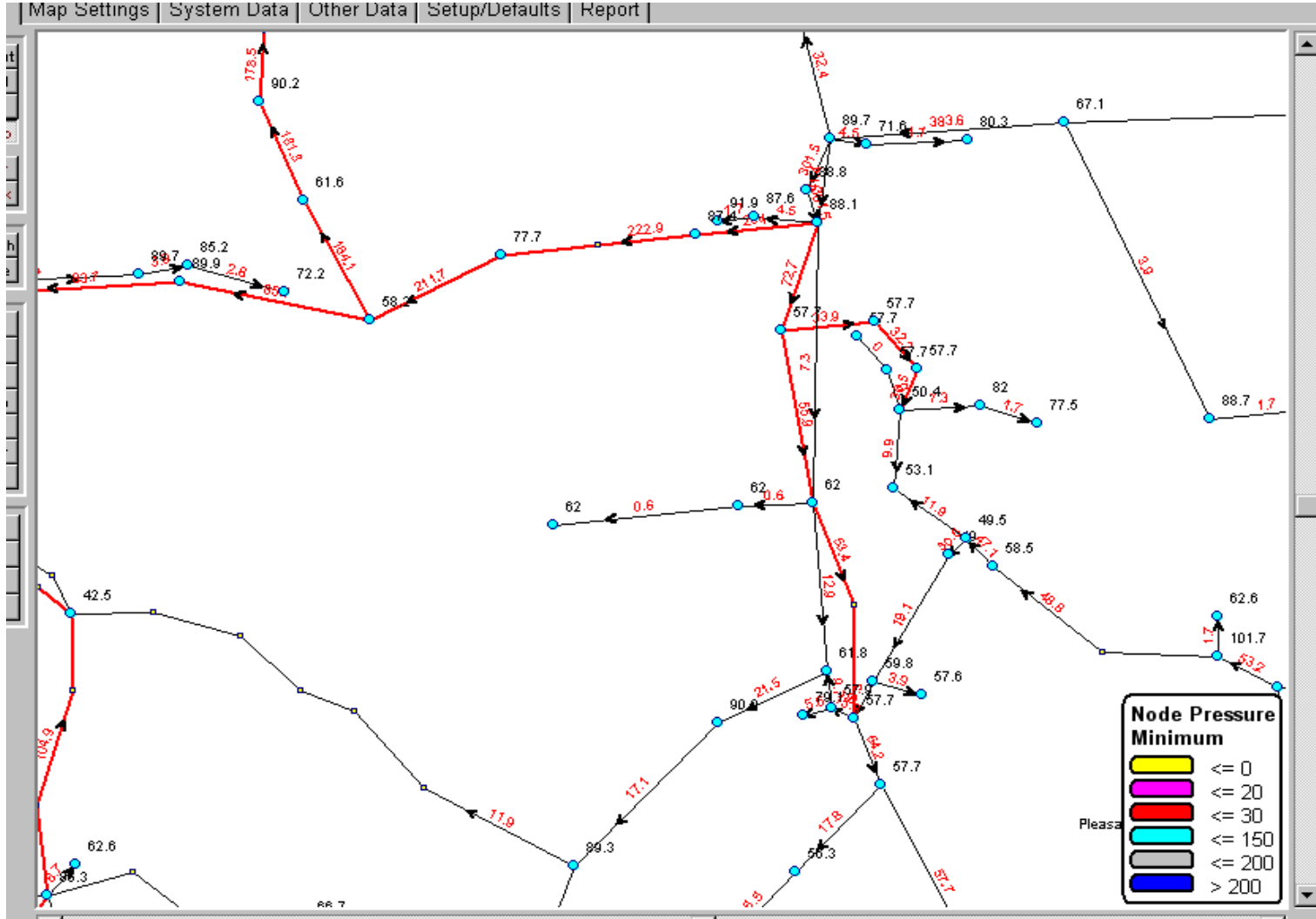
OHIO COUNTY WATER DISTRICT
 PLEASANT RIDGE IMPROVEMENTS

LONG RANGE MAXIMUM DAILY FLOW
 24 HOUR EXTENDED PERIOD SIMULATION HAVING A DIURNAL FLOW PATTERN IN ACCORDANCE W/ AWWA
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 MAXIMUM FLOWS SHOWN IN RED, GPM
 VIEW: N1



OHIO COUNTY WATER DISTRICT
PLEASANT RIDGE IMPROVEMENTS

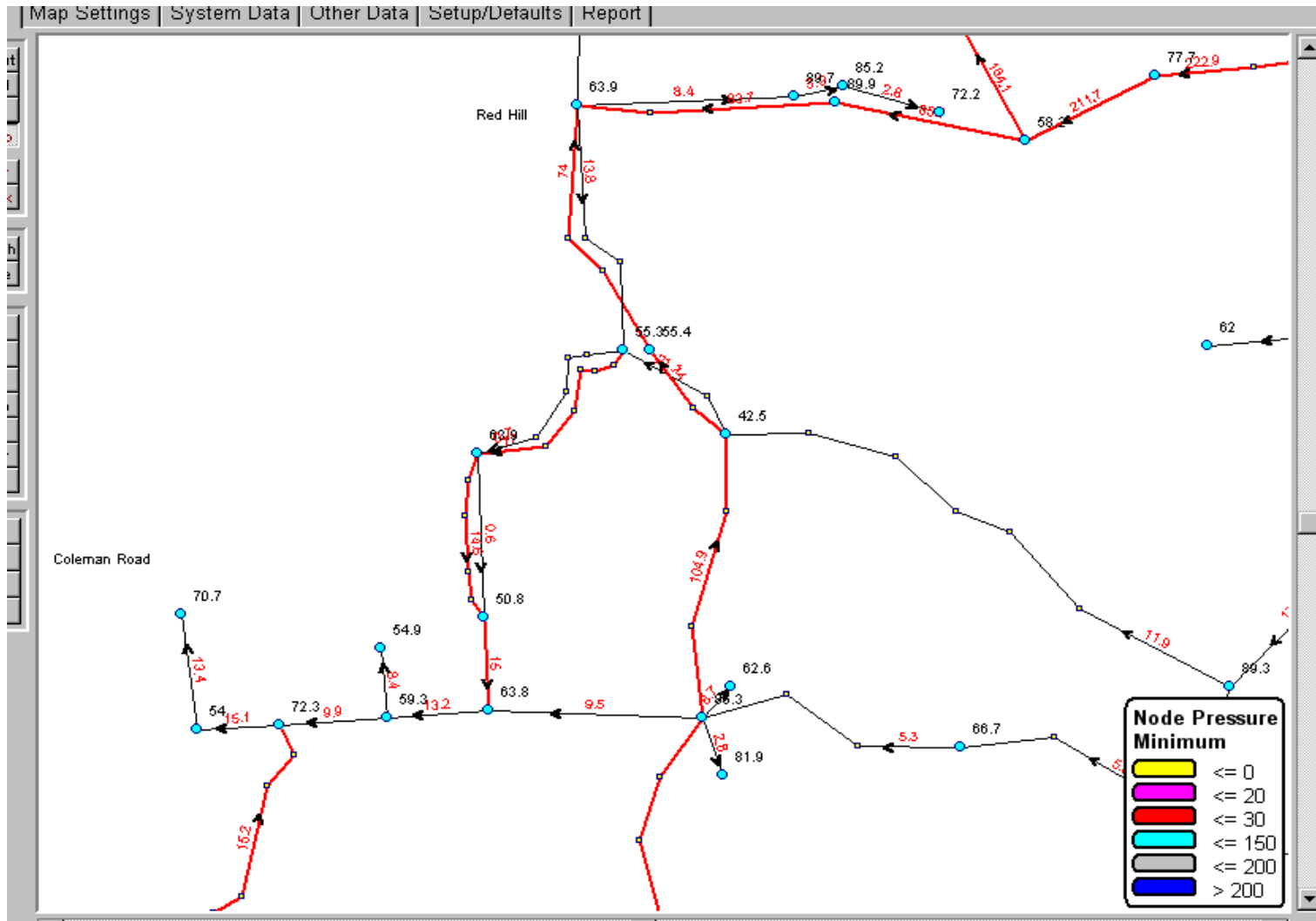
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MINIMUM PRESSURES SHOWN IN BLACK, PSI
MAXIMUM FLOWS SHOWN IN RED, GPM
VIEW: N2



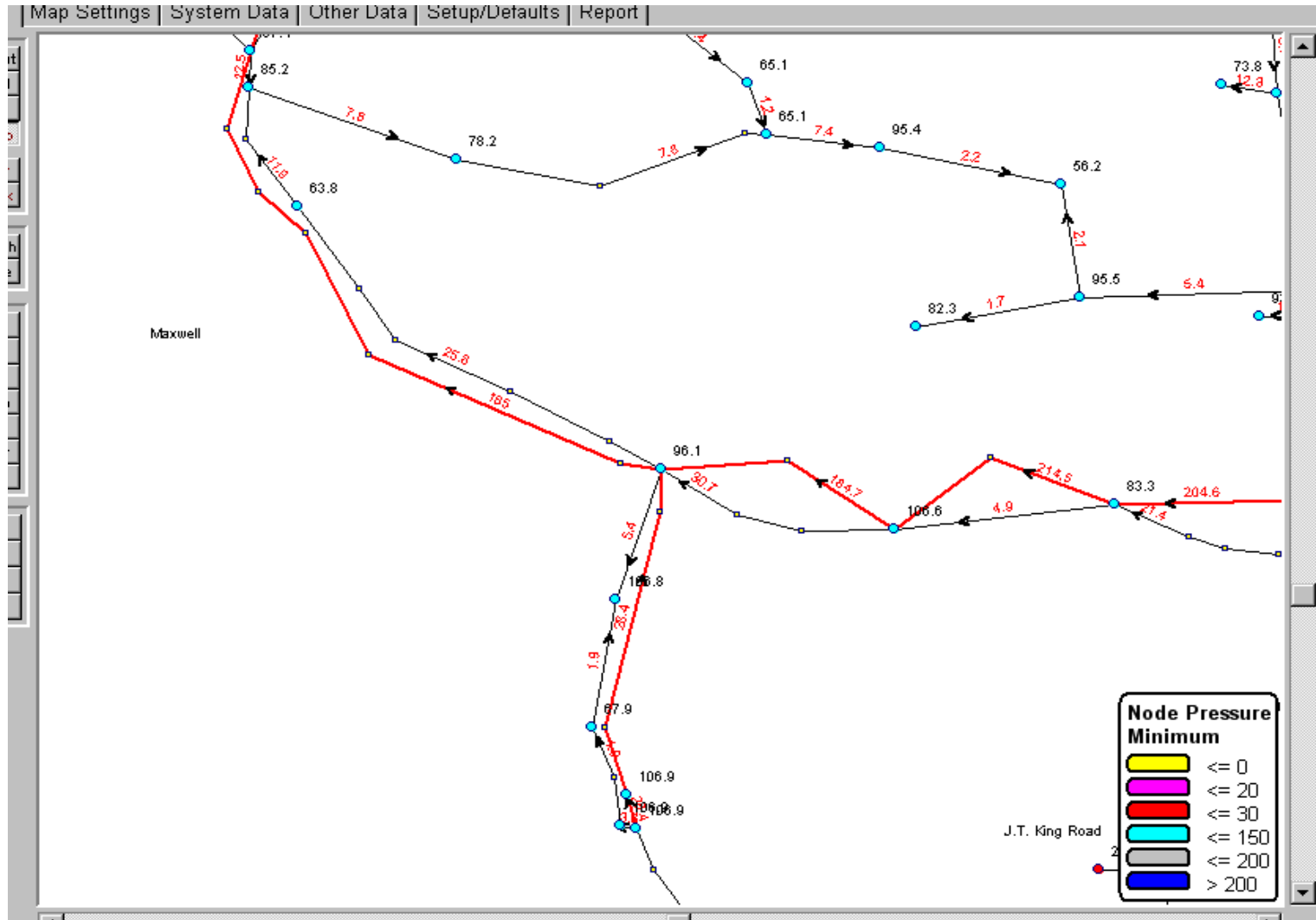
OHIO COUNTY WATER DISTRICT
PLEASANT RIDGE IMPROVEMENTS

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MAXIMUM FLOWS SHOWN IN RED, GPM

VIEW: N3



OHIO COUNTY WATER DISTRICT
 PLEASANT RIDGE IMPROVEMENTS
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 MAXIMUM FLOWS SHOWN IN RED, GPM
 VIEW:S2



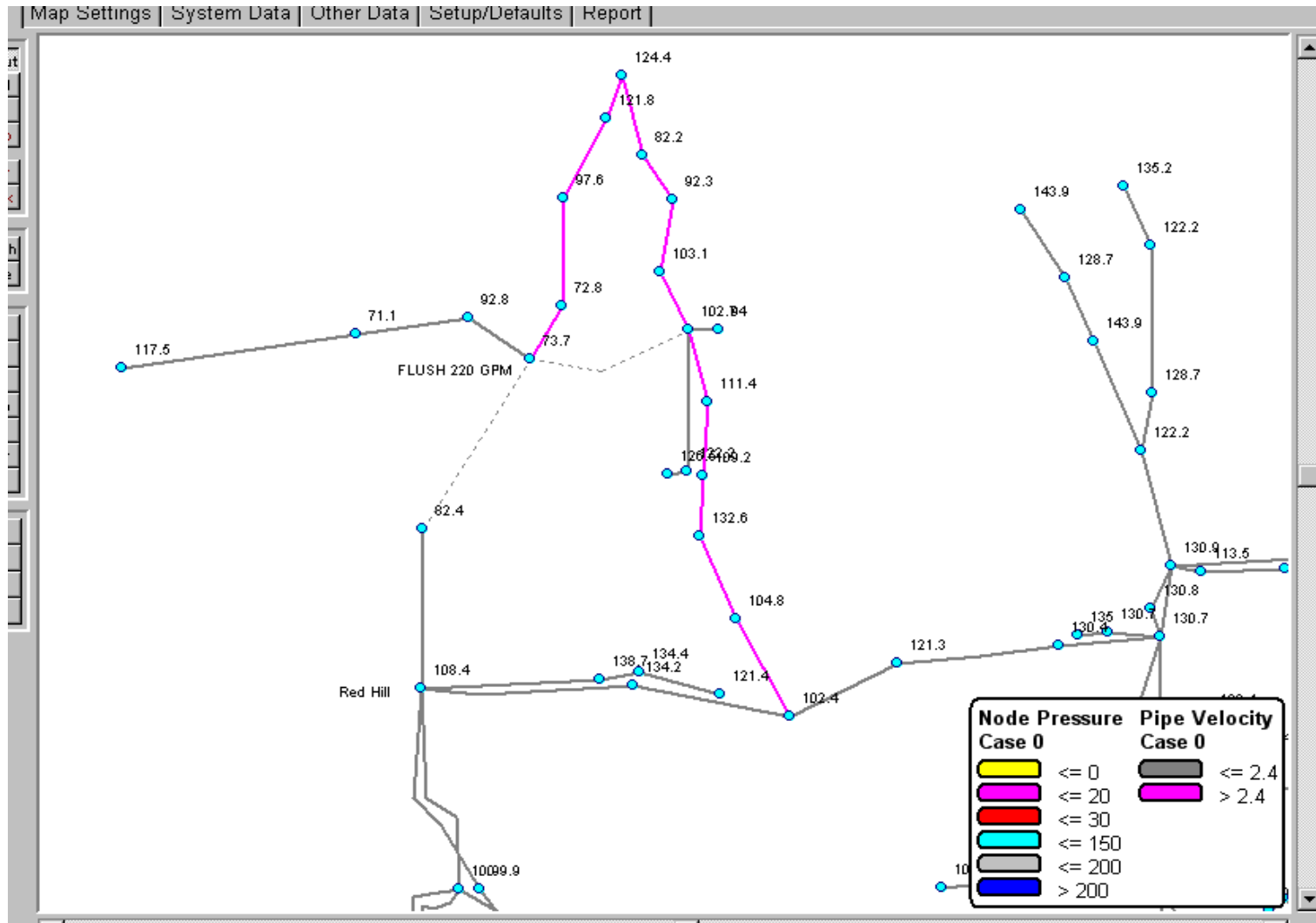
OHIO COUNTY WATER DISTRICT

PLEASANT RIDGE PRESSURE ZONE

FLUSHING MAINS

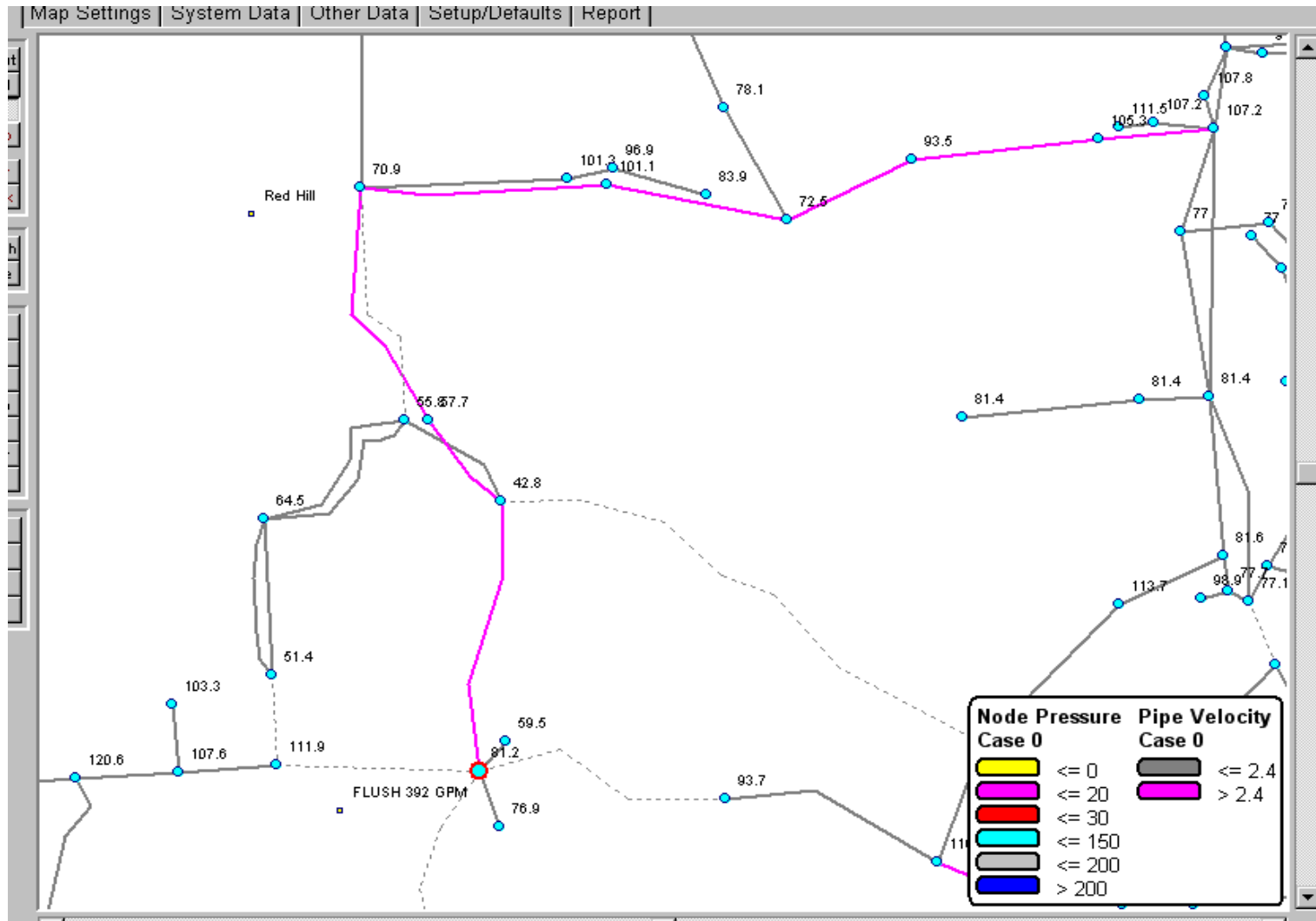
OHIO COUNTY WATER DISTRICT
PLEASANT RIDGE IMPROVEMENTS

FLUSHING OF NEW MAINS TO CREATE VELOCITY = 2.5 FPS
RESIDUAL PRESSURES SHOWN IN BLACK, PSI
MAINS FLUSHED AT 2.5 FPS SHOWN IN MAGENTA



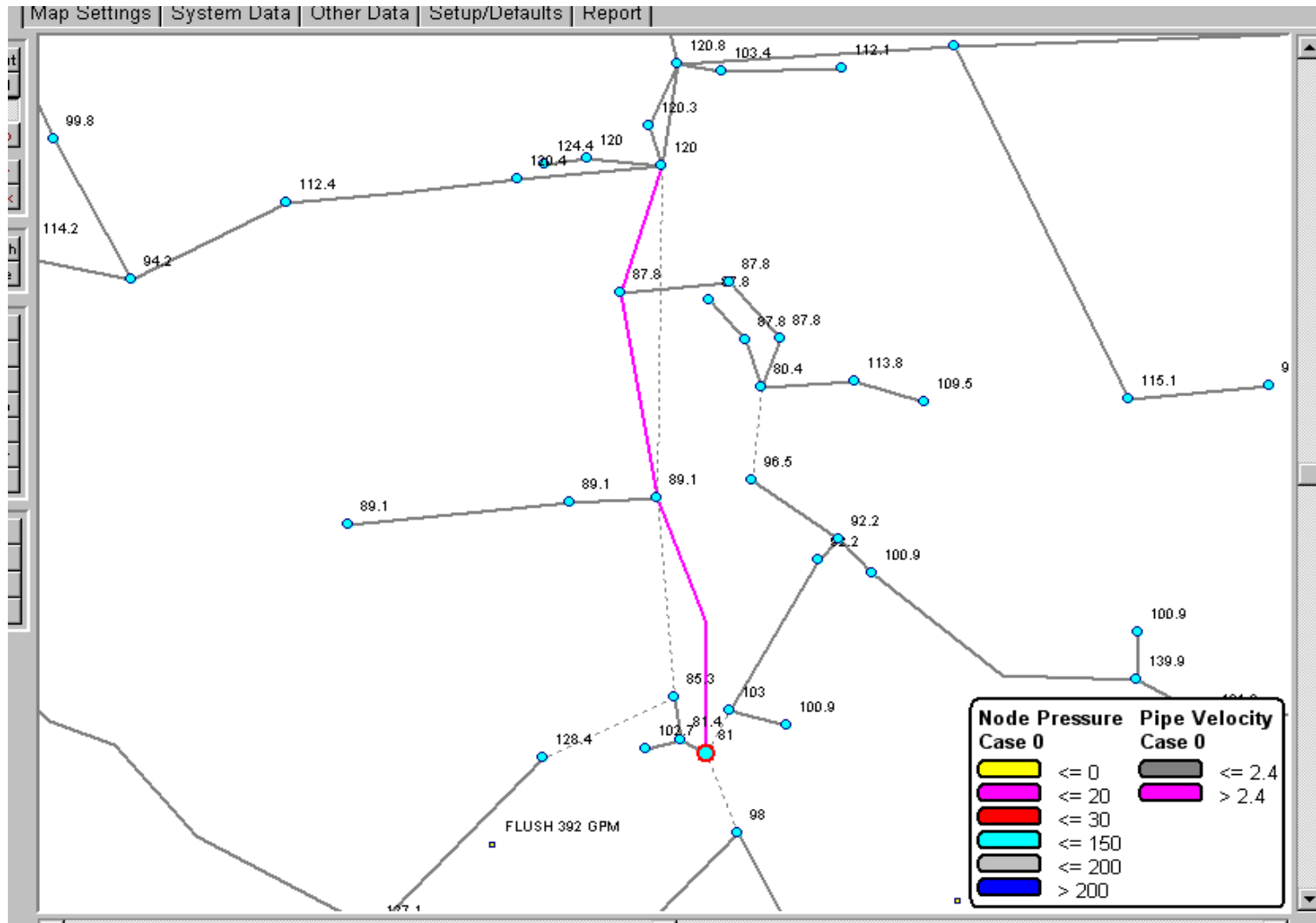
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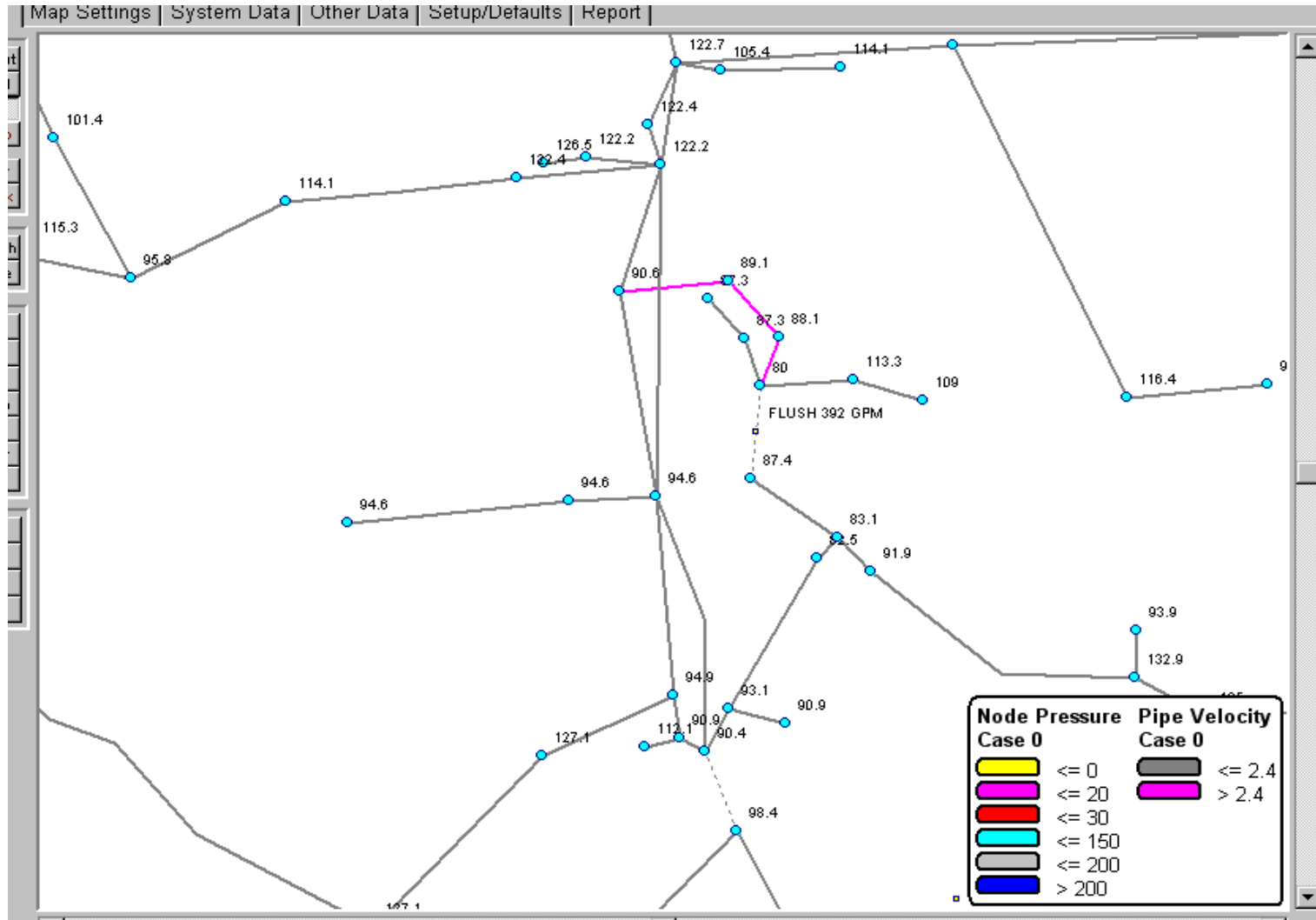
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MAINS FLUSHED AT 2.5 FPS SHOWN IN MAGENTA



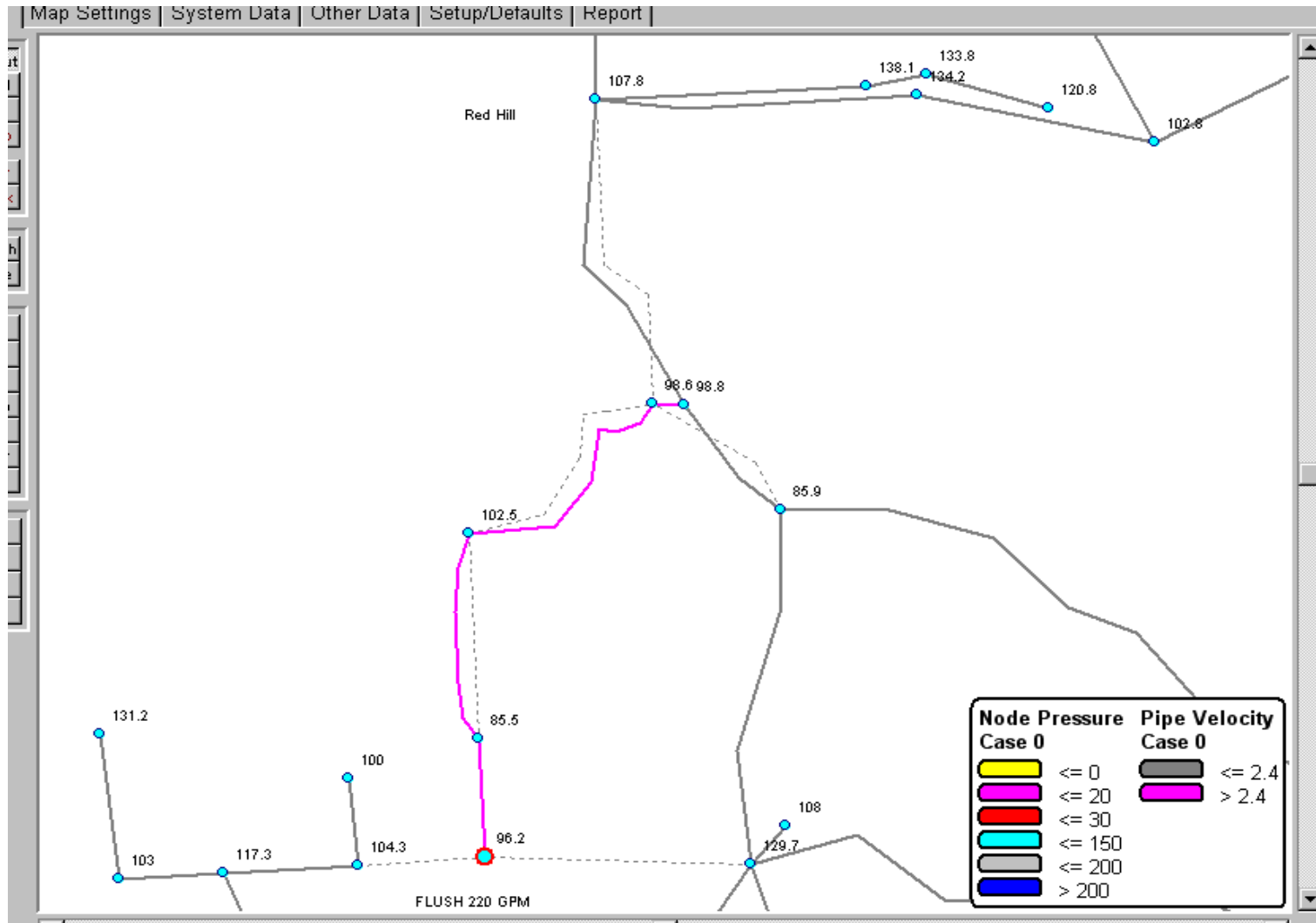
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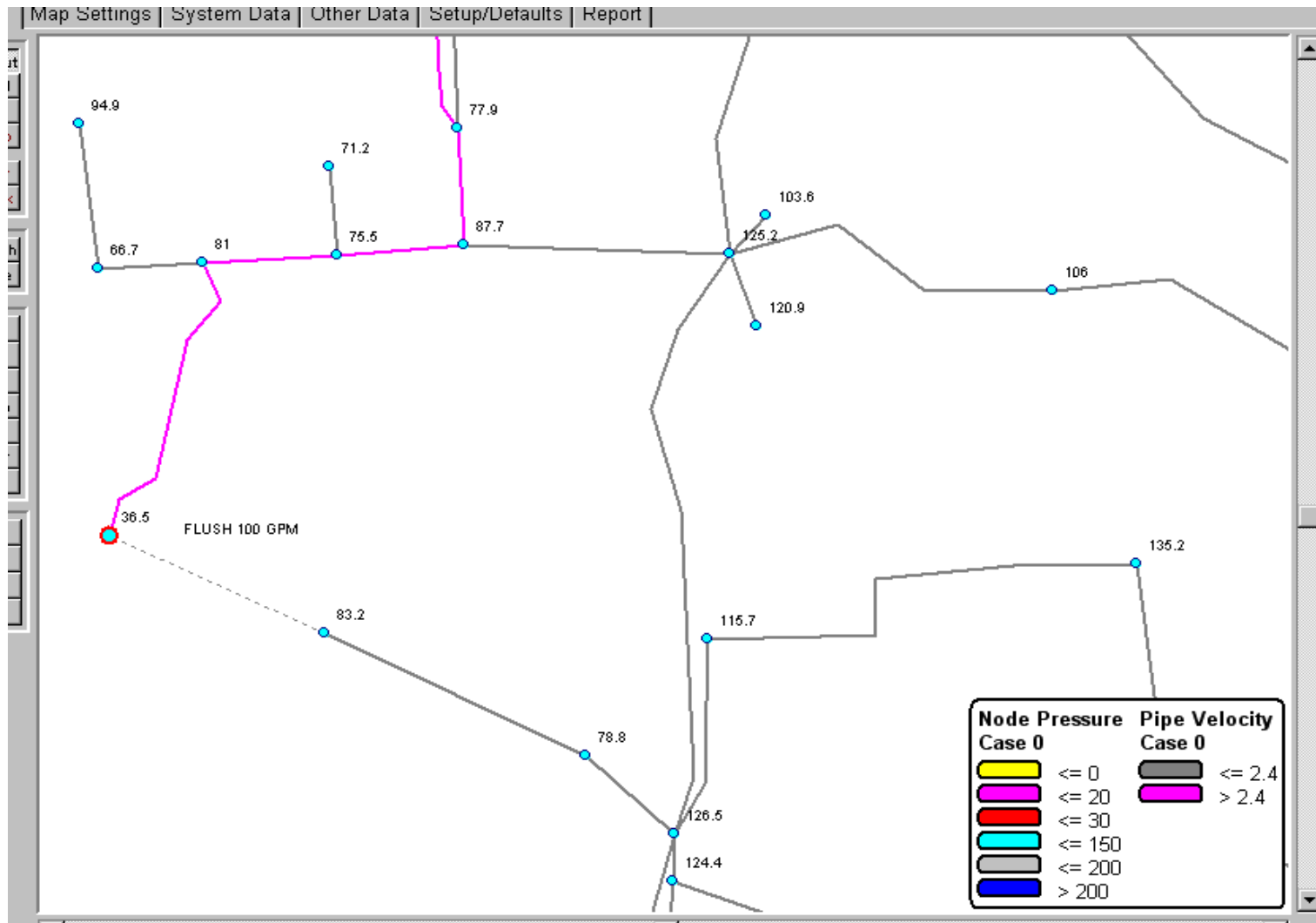
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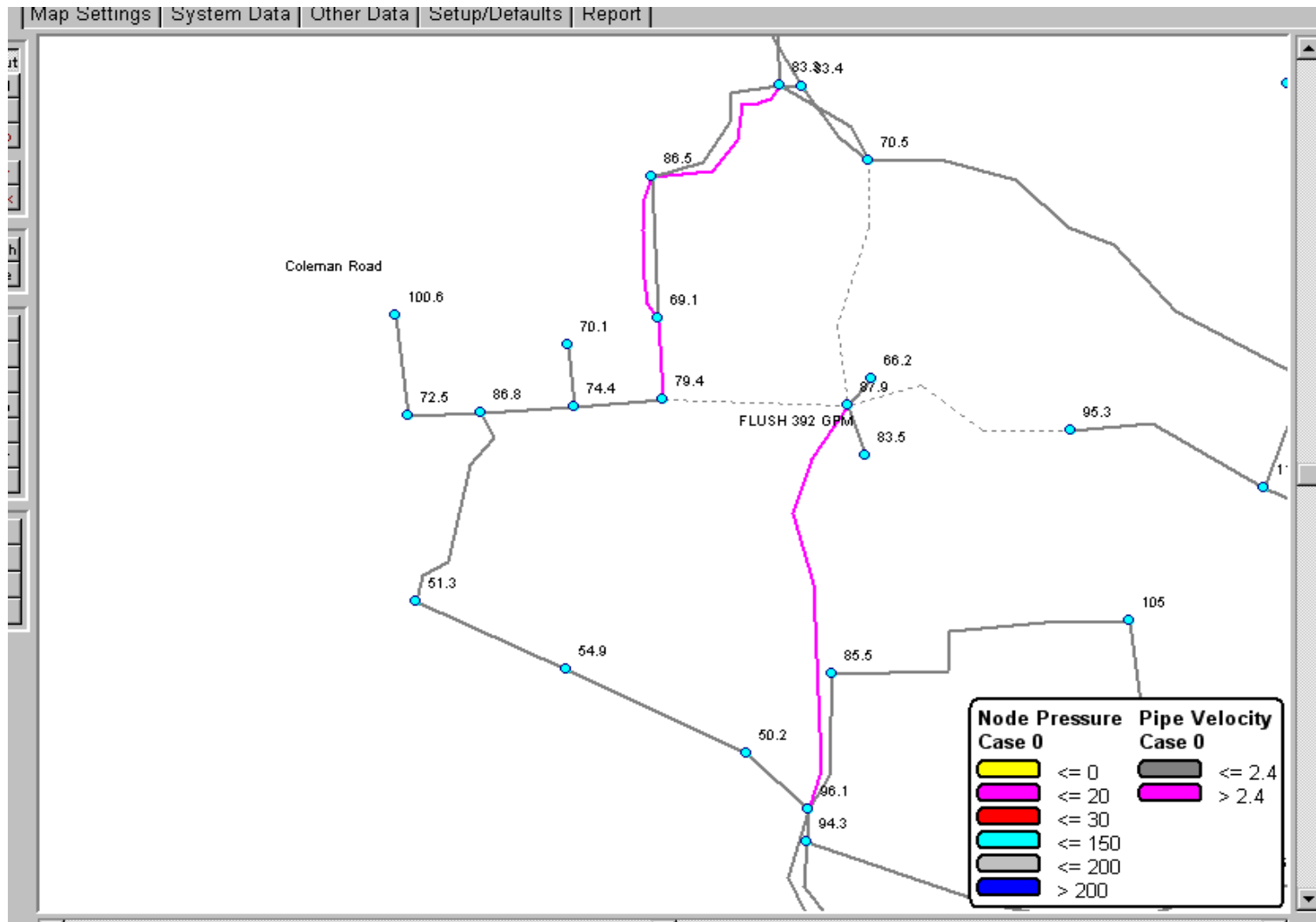
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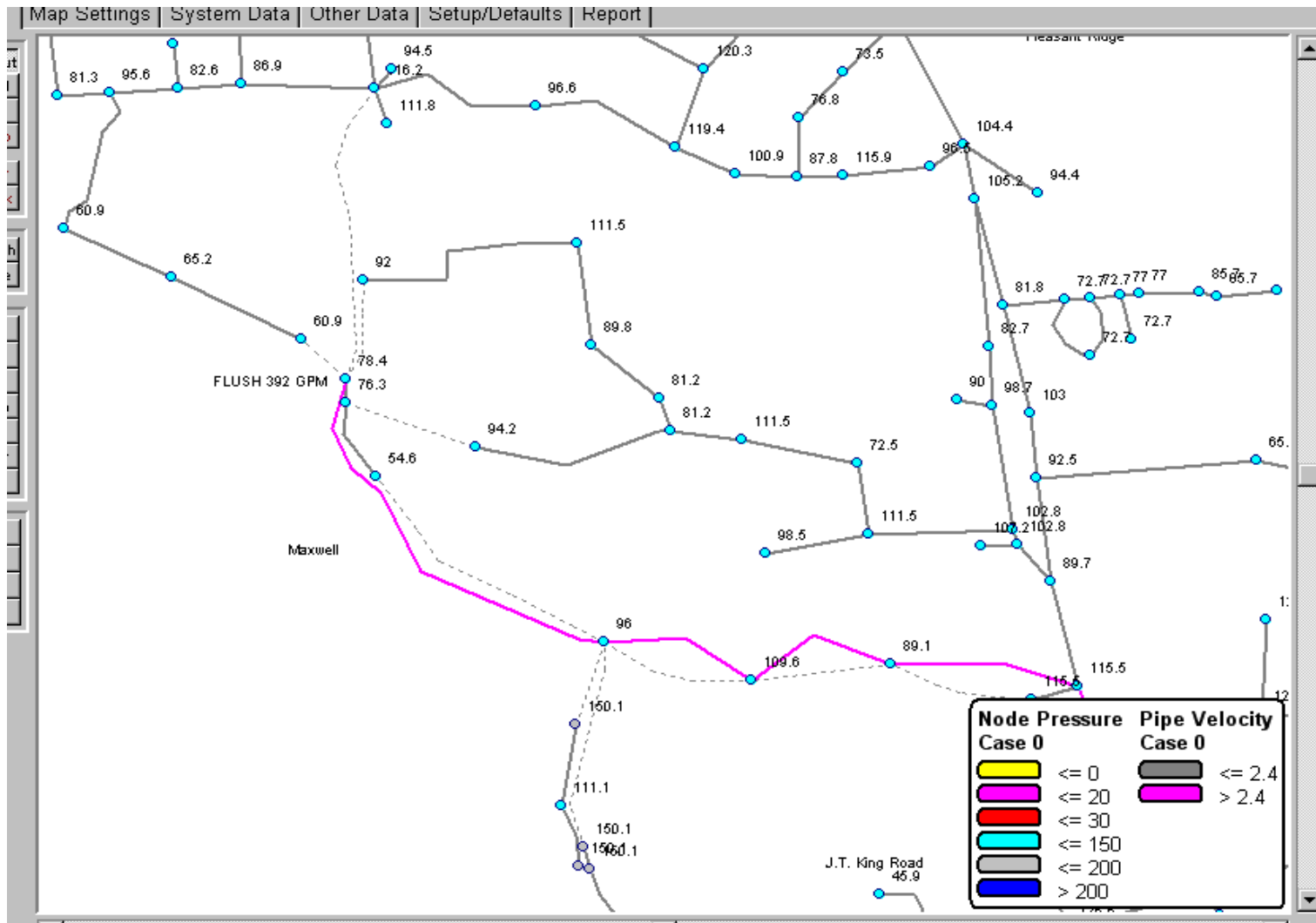
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