

PLAN VIEW

NOT TO SCALE

FIRE HYDRANT ASSEMBLY

NOT TO SCALE

FIRE HYDRANT DETAILS

THRUST BLOCK DIMENSIONS (INCHES)

18 | 18

BLOCK DIMENSIONS

18 | 44 | 22 | 32

37 | 88 | 44 | 65

25 | 58 | 29 |

WYE BRANCH

SIZE

90° BEND | 45° BEND

- SPECIFICATIONS OF PUBLIC WATER SUPPLY DISTRICT NO. 12 OF JEFFERSON COUNTY, MODNR, AWWA AND ASTM.
- 7. ALL TRENCHES UNDER AREAS TO BE PAVED AND UNDER EXISTING PAVING SHALL BE FULL HEIGHT GRANULARLY FILLED WITH COMPACTED SELECT GRANULAR BACKFILL. BACKFILL SHALL BE PLACED IN ACCORDANCE WITH THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF MODNR AND MODOT, PROJECT SPECIFICATIONS AND AS DIRECTED ON THE PLANS.
- ALL WATERMAIN PIPING SHALL BE ASTM D-2241, SDR-21 PVC PIPE WITH DUCTILE IRON MECHANICAL JOINT FITTINGS AWWA C153 RESTRAINED WITH MECHANICAL RESTRAINERS. DIP (DUCTILE IRON PIPE) WATERMAIN SHALL BE CLASS 52 AND BE IN ACCORDANCE WITH AWWA C151, WALL THICKNESS AWWA C150, CEMENT-MORTAR LINING AWWA C104 AND POLYETHYLENE JACKET AWWA C105 AND RESTRAINED JOINTS, MECHANICAL JOINTS OR PUSH-ON JOINTS AWWA C111 WITH DUCTILE IRON MECHANICAL JOINT FITTING AWWA C153 RESTRAINED WITH MECHANICAL RESTRAINERS OR RESTRAINED GASKET FITTINGS AWWA C153; OR LATEST REVISIONS THEREOF. BORING/DIRECTIONAL DRILLING - WATERMAIN PIPING SHALL BE RESTRAINED JOINT, ASTM D3139, BOLTLESS,
- 9. ALL MECHANICAL JOINT FITTINGS, RESILIENT WEDGE GATE VALVES AND FIRE HYDRANTS SHALL BE RESTRAINED WITH MECHANICAL RESTRAINERS. WHEN THESE ITEMS ARE INSTALLED WITHIN CLOSE PROXIMITY, THESE ITEMS SHALL BE RESTRAINED WITH SWIVEL ANCHOR COUPLINGS (18" LENGTH MINIMUM).

PUSH-ON TYPE, JOINT RESTRAINT INDEPENDENT OF JOINT SEAL WITH ELASTOMERIC SEALING GASKETS MEETING THE NEWEST REVISION OF ASTM F477.

- 10. THE CONTRACTOR IS RESPONSIBLE FOR ALL OSHA SAFETY COMPLIANCES WHEN TRENCHING AND LAYING UTILITIES.
- 11. WATERMAIN LOCATOR WIRE SHALL BE INSTALLED WITH ALL PVC WATERMAIN, FITTING AND VALVE INSTALLATIONS AS SPECIFIED IN THE PROJECT SPECIFICATIONS. OPEN CUT UTILIZE #12 AWG SOLID COPPER WIRE, INSULATED WITH A 30 MIL HIGH DENSITY POLYETHYLENE (HDPE) OR HIGH MOLECULAR WEIGHT POLYETHYLENE (HMWPE) INSULATION (BLUE). BORING/DIRECTIONAL DRILLING - UTILIZE #10 AWG COPPERHEAD DIRECTIONAL DRILL SOLOSHOT EXTRA HIGH STRENGTH TRACER WIRE (BLUE) OR APPROVED EQUAL.
- 12. BEFORE WATERMAINS SHALL BE ACCEPTED AND PUT INTO SERVICE THEY SHALL BE TESTED FOR TWO HOURS ON EACH SEGMENT BETWEEN END POINTS AT A TEST PRESSURE OF AT LEAST 50% IN EXCESS OF NORMAL MAXIMUM OPERATING PRESSURE, NOT TO EXCEED 200 PSI. WATERMAINS SHALL BE STERILIZED AND FLUSHED IN ACCORDANCE WITH PUBLIC WATER SUPPLY DISTRICT NO. 12 OF JEFFERSON COUNTY, MODNR AND AWWA SPECIFICATIONS AND STANDARDS.
- 13. FIRE HYDRANTS SHALL BE FREEZE PROOF DRY BARREL BREAKAWAY TYPE AND SHALL BE INSTALLED WITH AN AUXILIARY VALVE AND VALVE BOX IN ACCORDANCE WITH AWWA C502. FIRE HYDRANTS SHALL BE POST TYPE WITH A 6" MJ INLET, 5-1/4" DIAMETER VALVE OPENING, A NON-TURNING OPERATING ROD AND SHALL OPEN BY TURNING THE VALVE OPERATING NUT TO THE LEFT OR COUNTERCLOCKWISE. FIRE HYDRANT COATING SHALL BE IN ACCORDANCE WITH AWWA C550. EACH FIRE HYDRANT SHALL HAVE TWO 2-1/2" HOSE CONNECTIONS AND A PUMPER CONNECTION IN ACCORDANCE WITH THE LOCAL FIRE DEPARTMENT. ALL OF THE OPERATING AND WORKING PARTS SHALL BE SERVICEABLE OR REPLACEABLE FROM ABOVE GRADE WITH NO DIGGING OR DISTURBING THE SUPPLY LINE CONNECTION. FIRE HYDRANTS SHALL BE MANUALLY OPERATED BY USING A STANDARD 2" GATE VALVE WRENCH. WHEN OPEN, VALVE SHALL BE 100% UNOBSTRUCTED AND DRAIN HOLE SHALL BE COVERED AND CLOSED. THE FIRE HYDRANT SHALL HAVE PROPER THRUST BLOCKS, ANCHORAGES AND GRANULAR DRAIN POCKETS, AS SHOWN HEREIN.



Hurst-Rosche, Inc.

3675 W. Outer Road, Suite 10 Arnold, MO 63010 636.333.3351 t www.hurst-rosche.com

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HILLSBORO, IL EAST ST. LOUIS, IL MARION, IL NEOSHO, MO NASHVILLE, TN



SIGNATURE

01-06-2021 12-31-2021 LICENSE EXPIRES

3028 PUBLIC WALL

MARK DATE DESCRIPTION DATE: JANUARY 2021 PROJECT NO: 850-2858 DESIGN: | DRAWN: | CHECK: ZAY JMA ZAY

|WATERMAIN DETAILS