

BENDS	18"	24"	30"	36"	42"	48"	54"	60"
6"-11 1/4"	8"	18"	12"	24"	10"			
8"-22 1/2"	8"	18"	12"	24"	13"			
8"-45"	8"	30"	12"	24"	15"			
8"-90"	8"	30"	12"	24"	28"			
8"-11 1/4"	8"	20"	12"	24"	10"			
8"-22 1/2"	8"	22"	12"	24"	18"			
8"-45"	8"	31"	12"	24"	24"			
8"-90"	8"	38"	12"	24"	36"			
12"-11 1/4"	8"	30"	12"	24"	15"			
12"-22 1/2"	8"	30"	12"	24"	25"			
12"-45"	8"	40"	12"	24"	40"			
12"-90"	8"	60"	12"	24"	52"			
16"-11 1/4"	TL	28"	20"	24"	28"			
16"-22 1/2"	TL	30"	20"	24"	38"			
16"-45"	TL	55"	20"	24"	55"			
16"-90"	TL	91"	20"	24"	60"			
20"-11 1/4"	TL	34"	24"	28"	28"			
20"-22 1/2"	TL	48"	24"	28"	39"			
20"-45"	TL	74"	24"	28"	55"			
20"-90"	TL	136"	24"	28"	60"			
24"-11 1/4"	TL	40"	28"	28"	40"			
24"-22 1/2"	TL	56"	28"	28"	56"			
24"-45"	TL	101"	28"	28"	60"			
24"-90"	TL	186"	28"	28"	60"			
30"-11 1/4"	TL	48"	34"	30"	49"			
30"-22 1/2"	TL	78"	34"	30"	60"			
30"-45"	TL	154"	34"	30"	60"			
30"-90"	TL	285"	34"	30"	60"			

TEES	10"	12"	14"	16"	18"
6"x6"x6"	12"	24"	24"	18"	
6"x6"x8"	12"	24"	24"	27"	
6"x8"x8"	12"	24"	24"	18"	
12"x12"x6"	12"	24"	24"	18"	
12"x12"x8"	12"	27"	27"	27"	
12"x12"x12"	12"	38"	24"	38"	
24"x24"x12"	18"	53"	28"	53"	

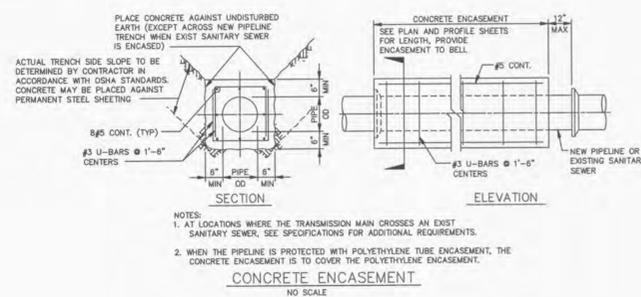
- NOTES:
 1. 2"x4" FITTINGS EQUIVALENT TO 6" FITTINGS.
 2. TAPPING SLEEVES TO HAVE BACKING BLOCKS SAME SIZE AS REQUIRED FOR TEES.
 3. TL = TOTAL LENGTH OF FITTING MINUS CLEARANCE FOR BELLS.

INTERNAL WATER PRESSURE 6" through 12"=200 psi
 INTERNAL WATER PRESSURE 16" through 30"=210 psi
 BEARING PRESSURE OF SOIL=2000 psi

BACKING BLOCKS
 NOT TO SCALE

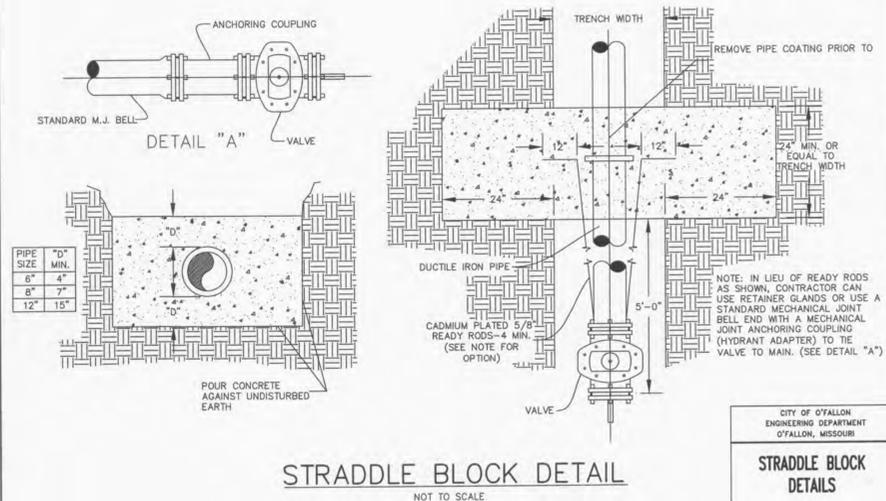
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 ENGINEERING DEPARTMENT
 O'FALLON, MISSOURI

**BACKING BLOCK
 DETAILS AND LOCATIONS**



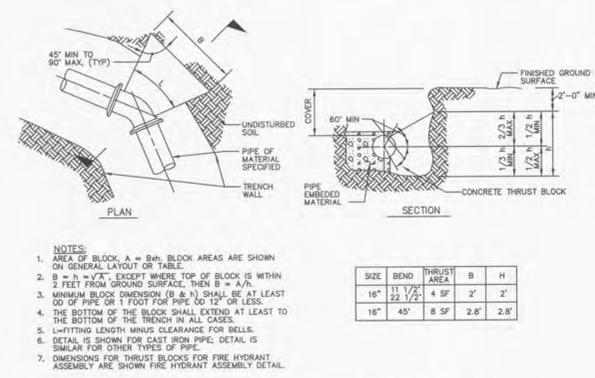
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**CONCRETE ENCASEMENT
 DETAILS**



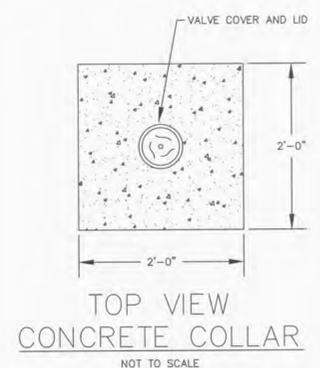
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 ENGINEERING DEPARTMENT
 O'FALLON, MISSOURI

**STRADDLE BLOCK
 DETAILS**



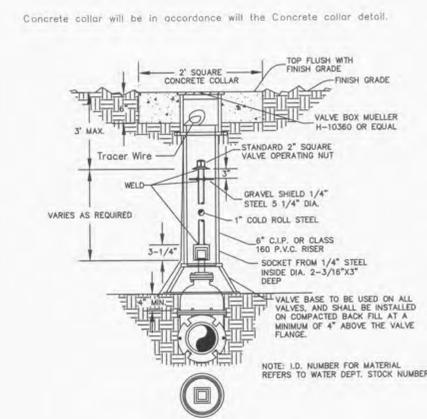
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 ENGINEERING DEPARTMENT
 O'FALLON, MISSOURI

**CONCRETE THRUST
 BLOCKING DETAILS**



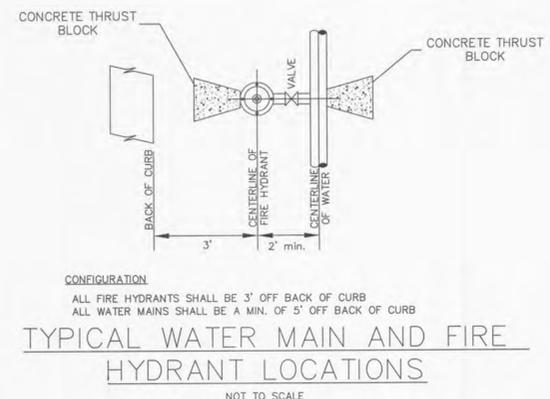
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 O'FALLON, MISSOURI

**CONCRETE
 COLLAR DETAIL**



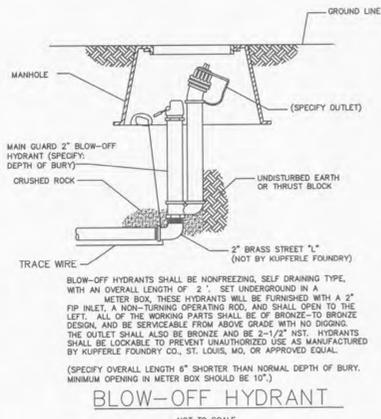
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**WATER
 VALVE DETAIL**



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**WATER MAIN
 FIRE HYDRANT DETAIL**



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**BLOW-OFF
 HYDRANT DETAIL**

Ductile Iron Pipe installation shall follow the Ductile Iron Research Association (DIPRA) guide line.
 The Installation of PVC Pipe shall follow the Uni-Bell PVC Pipe Association Handbook of PVC Design and Construction.

PROJECT TITLE
BROOKSIDE VILLAGE A

PICKETT, RAY & SILVER INC
 CIVIL ENGINEERING, LAND SURVEYING,
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ENGINEER'S AUTHENTICATION
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PICKETT, RAY & SILVER, INC. MO
 LICENSE #000328

STATE OF MISSOURI
 PROFESSIONAL ENGINEER
 DOUGLAS S. TIEMANN
 LICENSE NUMBER E-233451

Developer / Owner Information
Lombardo Homes of St. Louis, LLC
 2299 Technology Drive, Suite 150
 O'Fallon, Missouri 63368

50 YEARS
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CITY OF O'FALLON Water Details

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