

SANITARY SEWER AND WATER PLANS HIDDEN MEADOWS

A TRACT OF LAND BEING PART OF THE
WEST HALF OF THE NORTHWEST QUARTER
OF SEC.31, TWP. 47 N., RNG. 3 E.,
ST. CHARLES COUNTY, MISSOURI

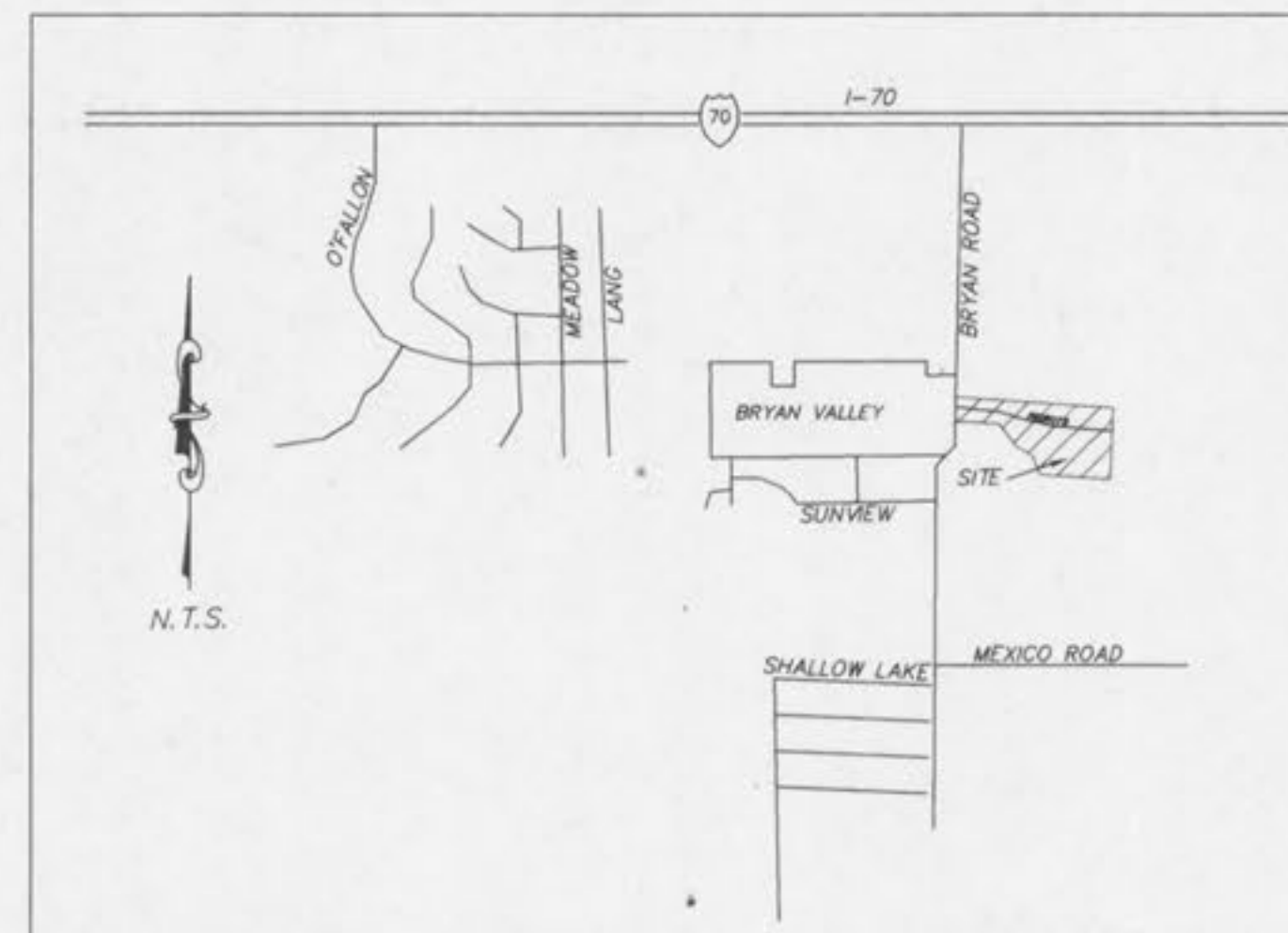
CITY OF O'FALLON GENERAL NOTES

1. Gas, water and other underground utilities shall not conflict with the depth or horizontal locations of existing and proposed sanitary and storm sewers, including house laterals.
2. Underground utilities have been plotted from available information and, therefore, their locations must be considered approximate only. The verification of the location of all underground utilities, either shown or not shown on these plans, shall be the responsibility of the contractor and shall be located prior to grading or construction of improvements.
3. Polyvinyl Chloride (PVC) shall conform to the requirements of ASTM D-3034 Standard Specifications for the PSM Polyvinyl Chloride (PVC) Sewer Pipe and Fittings, SDR-35.
4. All storm sewer pipe to be dedicated, regardless of size, shall be reinforced concrete pipe (ASTM C-76, Class III) unless noted otherwise in the plans.
5. Corrugated metal pipe shall conform to the standard specifications for corrugated culvert pipe M-36, A.A.S.H.O. See plans for gauge.
6. All filled places under buildings, proposed sanitary and storm sewer lines, and/or paved areas including trench backfills shall be compacted to 90% of maximum density as determined by the "Modified A.A.S.H.O. T-180 Compaction Test" (ASTM D-1557) unless otherwise specified by the local governing authority specifications. All tests will be verified by a soils engineer.
7. All earthen filled places within State, County, or City roads (Highways) shall be compacted to 95% of maximum density as determined by the "Standard Proctor Test A.A.S.H.O. T-99" (ASTM D-698) unless otherwise specified by local governing authority specifications. All tests will be verified by a soils engineer.
8. All storm and sanitary trench backfills shall be water jetted. Granular fill will be used under paved areas.
9. Easements shall be provided for storm sewers, sanitary sewers, and all utilities on the record plat. See record plat for location and size of easements. This does not apply to house laterals.
10. No area shall be cleared without the permission of the developer.
11. All grades shall be within 0.2 feet (more or less) of those shown on the grading plan.
12. No slope shall be greater than 3:1 and shall be either sodded or seeded and mulched.
13. Hazard markers will consist of three (3) standard specification, "Manual on Uniform Traffic Control Devices," and of roadway markers mounted on two (2) pound "U" channel sign post. Each marker shall consist of an eighteen (18) inch diamond reflectorized red panel. The bottom of each panel shall be mounted a minimum of four (4) feet above the elevation of the pavement surface.
14. All manhole and curb inlet tops built without elevations furnished by the Engineer will be the responsibility of the sewer contractor. At the time of construction stake-out of the sewer lines, all curb and grate inlets will be face staked. If normal face stakes fall in line with sewer construction, the Engineer will set these stakes on a double offset. It shall be the responsibility of the sewer contractor to preserve all face stakes from destruction.
15. All standard street curb inlets to have front of inlet 2 feet behind curb.
16. The minimum vertical distance from the low point of the basement to the flowline of a sanitary sewer at the corresponding house connection shall not be less than the diameter of the sanitary sewer plus a vertical distance not less than two and one-half feet (2-1/2').
17. Water lines, valves, sleeves, meters and etc., shall meet all specifications and installation requirements of the local governing authority.
18. All cast iron pipe for water mains shall conform to A.W.W.A. specification C-106 and/or C-108. The cast iron fittings shall conform to A.W.W.A. specification C-110. All rubber gasket joints for water cast iron pressure pipe and fittings shall conform to A.W.W.A. specification C-111.
19. All water hydrants and valves shall be cast iron and installed in accordance with plans and details.
20. All sanitary and storm sewers shall meet all specifications and installation requirements of the local governing authority.
21. All PVC water pipe shall have a minimum pressure rating of PR-200 or SDR-21.
22. All PVC sanitary sewer pipe shall be DR-35 or equal with crushed stone bedding uniformly graded between 1" and 1/4" size. This bedding shall extend from 6" below the pipe to 12" above the top of the pipe.
23. All grading on Missouri State Highway Right-of-Way shall be seeded and mulched and all disturbed Right-of-Way markers shall be reset at the completion of grading.
24. All streets must meet the specifications and installation requirements of the City of O'Fallon.
25. All sanitary manholes top shall be set 0.2' higher than the proposed ground except in pavement areas.
27. All sanitary service lines shall have a 6" diameter for Multi-family and a 4" diameter for single-family developments.
28. Manhole frame and cover shall be Clay and Bailey No. 2008 or Neenah R-1736 or Deeter 1315 or approved equal.
29. A drop of 0.2 feet is required through each sanitary manhole.
30. The City of O'Fallon shall be notified at least 48 hours prior to construction of sanitary sewers for coordination and inspection.
31. Brick shall not be used on manholes.
32. Sewer contractor shall maintain 24" vertical separation between all storm sewers and the sludge force main. Contractor shall be responsible for verifying separation prior to storm sewer installation.
33. Waterproofing: Waterproofing will be required on the exterior of all manholes. The bitumen shall consist of two coats of asphalt, coal-tar pitch, or a coating meeting American Society for Testing and Materials (ASTM) D-41. Asphalt shall conform to the requirements of ASTM D 449. Coal-tar pitch shall conform to the requirements of ASTM D-450. Coating shall be 31 mils thickness.
34. Site served by:
City of O'Fallon Sewer District
Union Electric Company
St. Charles Gas Company
St. Charles County Water District #2
GTE Telephone Company
Fort Zumwalt School District
O'Fallon Fire Protection District
35. Blow-off hydrants and water meters shall not be located in sidewalks or driveways
36. As needed, silt fences shall be installed as a protective barrier for trees to remain.

DRAWING INDEX

Sheet	Description
1	COVER SHEET
2	PLAN AND PROFILES
3-5	CONSTRUCTION DETAILS

LOCATION MAP



LEGEND

● Sanitary Sewer (Proposed)	Sanitary Structure	R.C.P. Reinforced Concrete Pipe
○ Sanitary Sewer (Existing)	Storm Structure	C.M.P. Corrugated Metal Pipe
— Storm Sewer (Proposed)	Test Hole	C.I.P. Cast Iron Pipe
— Storm Sewer (Existing)	Power Pole	P.V.C. Polyvinyl Chloride
— Water Line & Size	Light Standard	V.C.P. Vitrified Clay Pipe
— Existing water line	● Double Water Meter Setting	
— Tee & Valve	● Single Water Meter Setting	C.O. Clean Out
Hydrant	C.I. Curb Inlet	V.T. Vent Trap
Cap	S.C.I. Skewed Curb Inlet	T.B.R. To Be Removed
18 Lot or Building Number	D.C.I. Double Curb Inlet	T.B.R.&R. To Be Removed & Relocated
— Existing Fence Line	G.I. Grate Inlet	T.B.P. To Be Protected
Existing Tree Line	A.I. Area Inlet	T.B.A. To Be Abandoned
Street Sign	D.A.I. Double Area Inlet	B.C. Base Of Curb
Existing Contour	C.C. Concrete Collar	T.C. Top Of Curb
Proposed Contour	F.E. Flared End Section	T.W. Top Of Wall
Grouted Rip-Rap	E.P. End Pipe	B.W. Base Of Wall
Asphalt Pavement	E.D. Energy Dissipator	(TYP) Typical
Concrete Pavement	M.H. Manhole	U.N.O. Unless Noted Otherwise
	C.P. Concrete Pipe	U.I.P. Use in Place

APPROVED
Tracy
1-29-96

SITE BENCHMARK
T.B.M.
[3] 16 PENNY NAILS IN POWER POLE
SOUTH SIDE OF CUL-DE-SAC- ON
PEDROTTI LANE.
ELEV. 575.41

REVISIONS
1. Revised SH. 2 per City of O'Fallon

PICKETT RAY & SILVER

Civil Engineers
Planners
Land Surveyors

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St. Peters, MO 63376
397-1211 FAX 397-1104

<p>ENGINEERS AUTHENTICATION</p> <p>The responsibility for professional engineering liability on this project is hereby limited to the set of plans authenticated by the seal, signature and date hereunder attached. Responsibility is disclaimed for all other engineering plans involved in the project and specifically includes revisions other than those reauthenticating.</p> <p style="text-align: center;">PICKETT, RAY & SILVER, INC.</p> <p style="text-align: center;">Signature: <i>[Signature]</i> Date: <i>1/29/96</i></p>	<p style="text-align: center;">DEVELOPER</p> <p style="text-align: center;">SANITARY SEWERS HIDDEN MEADOWS HOMEOWNERS C/O BILL YATES, #9 PEDROTTI LANE O'FALLON, MO. 63366 978-4406</p> <p style="text-align: center;">WATER LINE GLEN EAGLE ASSOCIATES 13100 MANCHESTER ROAD SUITE G-55 ST. LOUIS, MISSOURI 63131 965-8000</p>	<p>© Copyright 1995 by Pickett, Ray & Silver Inc.</p> <p style="text-align: center;">CONFIDENTIAL PROPRIETARY MATERIAL The use, reproduction and sales rights of this drawing are reserved by Pickett, Ray & Silver Inc.</p> <table border="1" style="width: 100%;"> <tbody> <tr> <td>DRAWN</td> <td>GM</td> <td>DATE</td> <td>12-27-95</td> </tr> <tr> <td>CHECKED</td> <td>VC</td> <td>DATE</td> <td>12-27-95</td> </tr> <tr> <td>FIELD BOOK</td> <td>598</td> <td>PROJECT #</td> <td>95-175</td> </tr> <tr> <td></td> <td></td> <td>JOB ORDER #</td> <td>34069</td> </tr> </tbody> </table> <p style="text-align: right; font-size: 2em; font-weight: bold;">1 5</p>	DRAWN	GM	DATE	12-27-95	CHECKED	VC	DATE	12-27-95	FIELD BOOK	598	PROJECT #	95-175			JOB ORDER #	34069
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