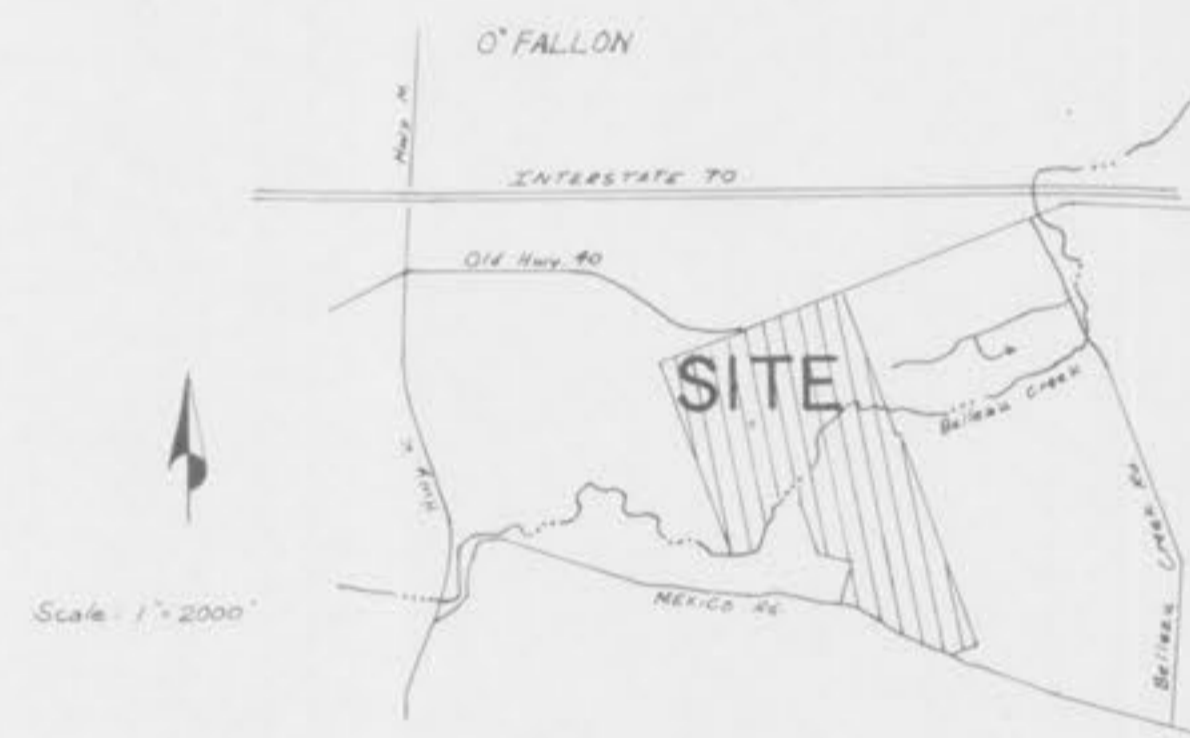


PHASE 2 COPPERFIELD

IMPROVEMENT PLANS

GENERAL NOTES:

1. Gas, water and other underground utilities shall not conflict with the depth or horizontal location 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 any grading or construction of improvements.
3. All Manhole and Inlet taps 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, provided said stakes do not fall in the ditch line. If stakes fall within the ditch line the sewer company or job superintendent shall notify the engineer by phone that stakes are needed and allow 48 hours for cuts.
4. All standard street Curb Inlets to have front of inlet 2' (foot) behind curb.
5. Storm sewers 18" diameter and smaller shall be A.S.T.M. C-14 unless otherwise shown on the plans.
6. Storm sewers 21" diameter and larger shall be A.S.T.M. C-76, class II minimum, unless otherwise shown on the plans.
7. All storm sewer pipe in the right-of-way, regardless of size shall be Reinforced Concrete Pipe (A.S.T.M. C-76 Class II Minimum, unless otherwise shown on the plans).
8. Corrugated Metal Pipe shall conform to the standard specifications for corrugated culvert pipe M36, AASHTO. See plans for gauge.
9. All 8" Vitrified Clay Pipe shall be A.S.T.M. Specification C-700. This pipe shall have factory molded resilient joints bonded to spigot and to bell that conforms to A.S.T.M. Specification C-425. See Note 20.
10. All sanitary house connections have been designed so that the minimum vertical distance from the low point of the basement to the flow line of a sanitary sewer at the corresponding house connection is not less than the diameter of the pipe plus a vertical distance of 2 1/2 feet.
11. 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.
12. All filled places, including trench backfills, under buildings, proposed storm and sanitary sewer lines and/or paved areas, shall be compacted to 90% of maximum density as determined by the "Modified AASHTO T-180 Compaction Test," (A.S.T.M. D-1557) unless otherwise required in the soils report for this project.
13. All trench backfills within the public R.O.W., shall be granular backfill. Trench backfills under paved areas, outside of public R.O.W. may be granular backfill in lieu of the earth backfill compacted to 90% of the Modified AASHTO Compaction Test.
14. No area shall be cleared without permission of the developer.
15. All grades shall be within 0.2 feet more or less of those shown on the grading plan.
16. All swales shall be sodded unless otherwise noted on the plans.
17. No slope shall be steeper than 2:1 or as required in the Soils Report for the project.
18. Barricades will consist of three standard 12"x36" red and white striped scotchlite hazard markers mounted on two pound "U" channel sign post, with bottom of marker seven feet above pavement surface.
19. A trust indenture shall be established for maintenance of Cul-de-Sac islands including the 6" Vertical Curb and all Common Ground when applicable.
20. 8" P.V.C. Sanitary Sewer Pipe may be used in place of V.C.P. The pipe must meet the following standards:
 1. ASTM-D-3034 SDR-35, with thick wall compression joint - ASTM-D-3212
21. When PVC pipe is used, appropriate rubber seal waterstop, as approved by the sewer district, shall be installed between PVC pipe and masonry (concrete & brick) structure.
22. All construction & materials used shall conform to current City of O'Fallon, Missouri Standards.



LOCATION MAP

23. All PVC water pipe shall have a minimum rating of 200 p.s.i., SDR 21 or approved equal.
24. All water mains & appurtenance shall meet the specifications & installation requirements of the local governing authority.
25. Water hydrants shall be Mueller "Centurion" 3-Way or approved equal.

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Sheet 1	Cover Sheet
Sheet 2 & 3	Flat Plan
Sheet 4 & 5	Grading Plan
Sheets 6 & 7	Street Profiles
Sheets 8 & 9	Sanitary Sewer Profiles
Sheets 10 & 11	Storm Sewer Profiles
Sheet 12 & 13	Drainage Area Map
Sheets 14-17	Construction Details
Sheet 18	Water Main Details

LEGEND

CI	Curb Inlet	T.B.	Thrust Block
DCI	Double Curb Inlet	T.B.A.	To Be Abandon
AI	Area Inlet	T.B.R.	To Be Relocated
2GI	Two Grate Inlet	T.B.R. & R.	To Be Removed and Relocated.
M.H.	Manhole		
F.E.	Flared End Section		
E.P.	End Pipe		
C.P.	Concrete Pipe		
R.C.P.	Reinforced Concrete Pipe		
C.M.P.	Corrugated Metal Pipe		
C.I.P.	Cast Iron Pipe		
P.V.C.	Poly Vinyl Chloride (Plastic Pipe)		
V.C.P.	Vitrified Clay Pipe		
C.O.	Clean Out		
V.T.	Vent Trap		
—■—	Storm Sewer		
—●—	Sanitary Sewer		
—	Existing Contour		
—	Proposed Contour		
—S	Street Sign		
—	FL Elevation at Terminus of House Connection.		
—	FL of Sanitary Sewer		
7	Lot or Building Number		
⊕	Depth to Rock		
E.D.	Energy Dissipator		

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<p>VOLZ ENGINEERING & SURVEYING, INC.</p> <p>LAND SURVEYORS - ENGINEERS - LAND PLANNERS</p> <p>(VES) 10849 INDIAN HEAD IND. BLVD. ST. LOUIS, MISSOURI 63132 PHONE - 428-5812</p>											
<p style="font-size: 2em; font-weight: bold;">82 -</p> <p style="font-size: 2em; font-weight: bold;">9893</p> <p style="font-size: 0.8em;">SHEET 101 OF 102</p>											