

CONSTRUCTION NOTES



GENERAL	GRADING	SANITARY SEWER	STORM SEWER	PAVING	LEGEND	LOCATION MAP
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Gas, water, and other underground utilities shall not conflict with the depth or horizontal location of existing and proposed sanitary and storm sewers including building laterals.

The underground utilities shown herein were plotted from available information and do not necessarily reflect the actual existence, nonexistence, size, type, number, or location of these or other utilities. The general contractor shall be responsible for verifying the actual location of all underground utilities, shown or not shown, and said utilities shall be located in the field prior to any grading, excavation, or construction of improvements. These provisions shall in no way absolve any party from complying with the Underground Facility Safety and Damage Prevention Act, Chapter 319, RSMo.

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 building laterals.

All construction and materials shall conform to current City of O'Fallon and Missouri State Highway Department.

All filled places, including trench backfills, under buildings, proposed storm and sanitary sewer lines and/or paved areas, shall be compacted to 90 percent of maximum density as determined by the "Modified AASHTO T-180 Compaction Test," (ASTM D-1557) unless otherwise required by the inspecting soils engineer or soils report for this project.

No area shall be cleared without permission of the developer.

All grades shall be within 0.2 feet more or less of those shown on the grading plan.

All swales shall be sodded unless otherwise noted on the plans.

No slope shall be steeper than 3:1.

Prior to grading operations, siltation control devices shall be installed.

Developer shall be responsible to maintain all siltation control devices during construction periods.

Additional siltation control devices may be required as directed by the City of O'Fallon and Missouri State Highway Department.

All manhole tops built without elevations furnished by the engineer will be the responsibility of the sewer contractor. At the time of construction stakeout 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.

All sanitary building 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.

All trench backfills under pavement within the public right-of-way shall be granular backfilled. Trench backfills under paved areas, outside of public right-of-way may be granular backfill in lieu of the earth backfill compacted to 90 percent of the Modified AASHTO T-180 compaction test (ASTM D-1557).

P.V.C. gravity sanitary sewer pipe sized 4" through 15" shall conform to the requirements of ASTM D-3034, for the PSM-PVC sewer pipe fittings, SDR-35. Large diameter plastic gravity sewer pipe and fittings shall conform to the requirements of ASTM F-679. All fittings for PVC pipe shall be of the same material and strength requirements as the sewer pipe.

When P.V.C. pipe is used, appropriate rubber seal water-stop, as approved by the sewer district, shall be installed between P.V.C. pipe and masonry (concrete and brick) structure.

All manhole and inlet tops built without elevations furnished by the engineer will be the responsibility of the sewer contractor. At the time of construction stakeout 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.

All storm sewer pipe regardless of size shall be reinforced concrete pipe (ASTM C-76, Class III Minimum, unless otherwise shown on the plans).

All trench backfills under pavement within the public right-of-way shall be granular backfilled. Trench backfills under paved areas, outside of public right-of-way may be granular backfill in lieu of the earth backfill compacted to 90 percent of the Modified AASHTO T-180 Compaction Test (ASTM D-1557).

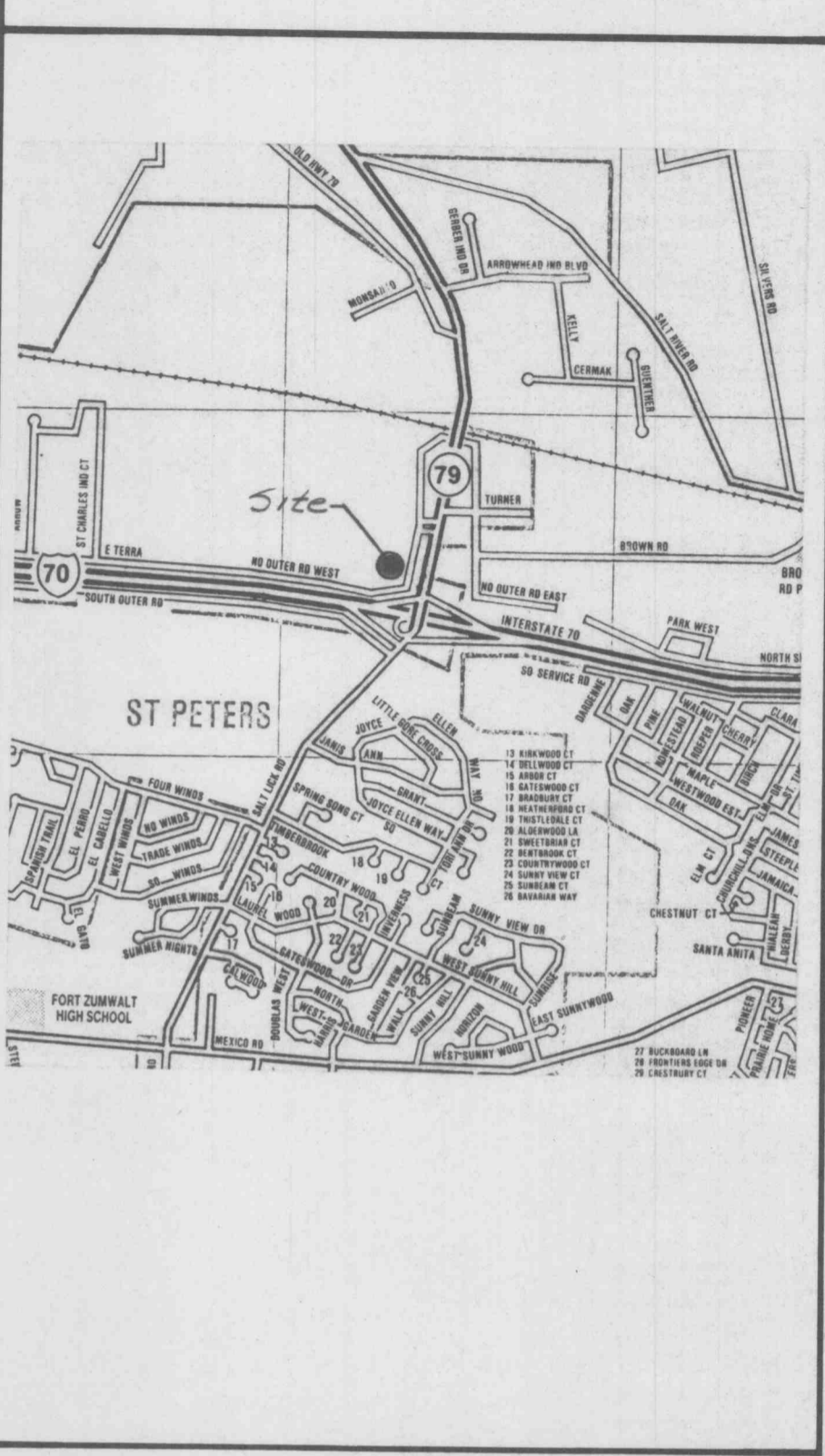
See pavement detail on sheet 2 of 2.

LEGEND

BUILDING LINE	---
EXISTING SANITARY SEWER	—○—
PROPOSED SANITARY SEWER	—●—
EXISTING STORM SEWER	—○—
PROPOSED STORM SEWER	—●—
EXISTING CONTOUR	—○—
PROPOSED CONTOUR	—●—
EXISTING TREE LINE	—○—
SILTATION CONTROL DEVICE	—■—
CREEK OR DITCH	—
FORCE MAIN	F
GAS MAIN	G
WATER MAIN	W
TELEPHONE CABLE	T
UNDERGROUND ELECTRIC	UE
OVERHEAD ELECTRIC	OE
STREET SIGN	—
GENERAL SURFACE DRAINAGE	—
LIGHT STANDARD	+

ABBREVIATIONS

CL	CENTER LINE
Min.	MINIMUM
Max.	MAXIMUM
Sta.	STATION
N/F	NOW OR FORMERLY OF
Esmt.	EASEMENT
Typ.	TYPICAL
U.I.P.	USE IN PLACE
Conc.	CONCRETE
PL	PROPERTY LINE
R/W	RIGHT-OF-WAY
F.G.	FINISHED GRADE
F.F.	FINISHED FLOOR
W	WIDE
FL	FLOW LINE
2G.I. w/s.i.	DOUBLE GRADE INLET W/ SIDE INTAKE
M.H.	MANHOLE
C.I.	CURB INLET
F.E.	FLARED END
E.P.	END OF PIPE
EX.	EXISTING
R.C.P.	CONCRETE REINFORCED PIPE
P.V.C.	POLY VINYL CHLORIDE (PLASTIC PIPE)
C.O.	CLEAN OUT
D.C.I.	DOUBLE CURB INLET
T.B.R.	TO BE REMOVED
A.T.G.	ADJUST TO GRADE



INDEX

Sheet 1 Construction Notes	
Sheet 2 Site & Grading Plan	

FILE COPY
APPROVED AS NOTED
8-23-91
Frank Godwin

BENCHMARK

TEM #1 ELEVATION IS BASED UPON THE U.S.G.S. STANDARD TABLE H-149. RESET IN 1980 TO THE WEST END BASE OF THE SOUTH PIER OF NORFOLK AND WESTERN RAILROAD.
ELEVATION PROVIDED : 505.026

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Project Title	I-70 & 79 DOYLE SHOCKLEY O'Fallon, Mo.
Project Manager	DRK
Designer	DRK
Drawn	YAZ
Checked	DRK
Date	7/17/91
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By	Date Description
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1	
2	