

STA. 10+23.00 TO STA. 12+18.66

GENERAL NOTES

 Underground utilities have been plotted from available information and therefore their locations shall 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 the improvements.

2. No area shall be cleared without the permission of the

Project Engineer.

The City of O'Fallon shall be notified 48 hours prior to construction for coordination and inspection.
 All existing site improvements disturbed, damaged or destroyed shall be repaired or replaced to closely match pre-construction conditions.

The contractor shall prevent all storm, surface water, mud and construction debris from entering the existing sanitary sewer system.

6. All construction and materials shall conform to the current construction standards of the City of O'Fallon. Where conflicts exist, the contractor shall notify the Engineer for resolution.
7. Proposed building and site will comply with current Americans with Disabilities Act (ADA) requirements.

 All dimensions are to back of curb, unless otherwise noted.
 All construction methods and practices shall conform with current OSHA standards.

10. Topographic survey performed by:
Desain & Associates
4135 Mexico Road
St. Peters, MO 63376
Phone: 636-498-2641

UTILITY NOTES

Underground utilities have been plotted from available information and therefore their locations shall 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 the improvements.
 All filled places, including trench back fills, under buildings,

proposed storm and sanitary sewer lines and/or paved areas, shall be compacted to 90% maximum density as determined by the "Modified AASHTO T-180 Compaction Test,"

(A.S.T.M.-D-1557). All filled places within public roadways shall be compacted to 95% of maximum density as determined by

the "Standard Proctor Test AASHTO T-99, Method C"
(A.S.T.M.-D-698).

3. All trench back fills under paved areas shall be granular back fill, and shall be compacted to 90% of the maximum density as determined by the "Modified AASHTO T-180 Compaction Test." (A S.T.M.-D-1557). All other trench back

density as determined by the "Modified AASHTO T-180 Compaction Test," (A.S.T.M.-D-1557). All other trench back fills may be earth material (free of large clods or stones). All trench back fills shall be water jetted.

4. The City of O'Fallon shall be notified 48 hours prior to

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5. Gas, water and other underground utilities shall not conflict with the depth or horizontal location of existing or proposed sanitary or storm sewers, including house laterals.

6. All construction and materials shall conform to the current

7. All utilities shown are existing, unless otherwise noted. All new utilities shall be located underground.

8. All construction methods and practices shall conform with current OSHA standards.

GRADING AND EROSION CONTROL NOTES

All soils tests shall be verified by a Soils Engineer concurrent with the grading and back filling operations.
 All earth grades shall be within 0.2 feet of those shown on the grading plan.

No slope shall be steeper than 3:1. All slopes shall be sodded or seeded and mulched.

Erosion control shall be per City of O'Fallon and Missouri
Department of Natural Resources(MDNR) rules and regulations.
Best management practices shall be used for erosion control.
 Additional erosion control measures may be required, as directed by engineer.

DEMOLITION NOTES

 Contractor shall remove and dispose of all asphalt, concrete, rock, building materials, and all other debris at an approved landfill in accordance with all rules and regulations, including Missouri Department of Natural Resources (MDNR), St. Charles County, and the City of O'Fallon.

Contractor shall remove all rock base when removing pavements.

 Sawcuts shall be considered incidental to removals.
 Contractor shall remove concrete sidewalk at joint nearest the limits of removal.

WATER NOTES

1. All water lines shall be laid at least 10 feet horizontally, from any sanitary sewer, storm sewer, or manhole. 18" vertical clearance from outside of pipe to outside of pipe shall be maintained wherever water lines must cross sanitary sewers, laterals, or storm drains. The water line shall be laid at such an elevation that the bottom of the water line is above the top of the drain or sewer. A full length of water pipe shall be centered over the sewer line to be crossed so that the joints will be equally distant from the sewer and as remote therefrom as possible. This vertical separation shall be maintained for that portion of the water line located within 10 feet horizontally, of any sewer or drain it crosses.

2. All PVC water pipe shall conform to A S TM = D=2241 SDR 21

2. All PVC water pipe shall conform to A.S.T.M.-D-2241, SDR 21 Standard Specification for P.V.C. Pressure Pipe, 200 P.S.I. working pressure for water, with approved joint.

 Water lines, valves, sleeved, meters, and fittings shall meet all specifications and installation requirements of the City of O'Fallon and Alliance.

4. All water hydrants and valves shall be ductile iron and installed in accordance with plans and details. All ductile iron pipe for water mains shall conform to A.W.W.A. Specifications C-106 and/or C-108. The ductile iron fittings shall conform to A.W.W.A. Specification C-110. All rubber gasket joints for water ductile iron pressure pipe and fittings shall conform to A.W.W.A. Specification C-111.

The City of O'Fallon shall be notified 48 hours prior to construction for coordination and inspection.
 Gas, water and other underground utilities shall not conflict with the depth or horizontal location of existing or proposed sanitary or storm sewers, including house laterals.
 Water line shall be installed with type C bedding.

STORM SEWER NOTES

All manhole tops built without elevations furnished by the Engineer will be the responsibility of the sewer contractor.
 All filled places, including trench back fills, under buildings, proposed storm and sanitary sewer lines and/or paved areas, shall be compacted to 90% maximum density as determined by the "Modified AASHTO T-180 Compaction Test,"

 (A.S.T.M.-D-1557). All filled places within public roadways shall be compacted to 95% of maximum density as determined by

the "Standard Proctor Test AASHTO T-99, Method C"

(A.S.T.M.-D-698).

3. All trench back fills under paved areas shall be granular back fill, and shall be compacted to 90% of the maximum density as determined by the "Modified AASHTO T-180"

Compaction Test," (A.S.T.M.-D-1557). All other trench back

trench back fills shall be water jetted.

4. Brick shall not be used in the construction of storm sewer manholes or structures.

fills may be earth material (free of large clods or stones). All

All pipes shall have positive drainage through manholes. No flat base structures are allowed. Structures shall have a 0.2' min. difference in invert elevation.
 All construction and materials shall conform to the current

construction standards of the City of O'Fallon.

7. All storm sewer trench back fills shall be water jetted.

Granular back fill will be used under pavement areas.

8. Concrete pipe for storm sewers shall be Class III, A.S.T.M.

C-76 with a minimum diameter of 12" except in the R.O.W. it

shall be 15".

9. Concrete pipe joints shall be MSD type "A" approved compression—type joints and shall conform to the requirements of the specifications for joins for circular concrete sewer and culvert pipe, using flexible, watertight, rubber—type gaskets (A.S.T.M.—C—443). Band—type gaskets depending entirely on cement for adhesion and resistance to displacement during

jointing shall <u>not be used</u>.

10. All flared end sections and inlet structures will be concrete.

11. All storm sewer pipe installed in the Public Right-of-Way shall be reinforced concrete Class III pipe.

12. All construction methods and practices shall conform with current OSHA standards.

STRIPING NOTES

Existing striping shall be removed as shown on plan and as directed by the Engineer.
 Contractor shall paint all striping. See specifications for type of paint.

3. Striping and pavement markings shall be in accordance with the current edition of the "Manual on Uniform Traffic Control Devices" (MUTCD) and current ADA standards.

4. All striping shall be installed per Missouri Standard Plans for Highway Construction detail 620.00A.

FENCING NOTES

Fencing shall meet the standards for the City of O'Fallon.
 Fencing fabric, posts and fence hardware system shall be per manufacturer. Contractor shall submit shop drawings to the City of O'Fallon and receive approval prior to construction.
 Standard chain link fences do not need shop drawing submittal. Standard chain link fencing shall be constructed according to Missouri Standard Plans for Highway Construction detail 607.10S.

If chain link fences are designated to be vinyl coated, fencing fabric and posts shall be vinyl coated.
 All construction methods and practices shall conform with current OSHA standards.

TRAFFIC CONTROL NOTES

Traffic control shall be the responsibility of the contractor, as approved by engineer. Additional traffic control may be required, as directed by engineer. Traffic control items may consist of furnishing, locating, and maintaining all barriers, channelizers, warning lights, signs, flagmen, and any other work and materials which may be required to properly protect the work and provide safety to the public.
 Two way traffic shall be maintained on all roads at all times during construction except for short intervals of time when the

2. Two way traffic shall be maintained on all roads at all times during construction except for short intervals of time when the movement of the contractor's equipment will seriously hinder the safe movement of traffic. All lanes shall be open to traffic during the period one—half hour before sundown to one—half hour after sunrise.

 The contractor shall maintain vehicular and pedestrian access to residential driveways and commercial entrances at all times. Contractor may phase multiple entrances for individual parcels, if mutually agreed to in writing with owner, City of O'Fallon and Contractor.

The engineer shall have the authority to limit or cease any of the Contractor's operations which, in his opinion, may hamper or impede the safe flow of traffic.

 All traffic central devices and traffic natterning shall.

 All traffic control devices and traffic patterning shall conform to the City of O'Fallon, Missouri Department of Transportation Standards, and the Manual of Uniform Traffic Control Devices (MUTCD).
 All construction methods and practices shall conform with

current OSHA standards.

I HEREBY SPECIFY THAT THE DOCUMENTS INTENDED TO BE AUTHENTICATED BY MY SEAL ARE LIMITED TO THIS SHEET, AND I HIPPERY DESCLAM ANY RESPONSIBILITY FOR ALL OTHER DRAWMAG, SPECIFICATIONS, ESTIMATES, REPORTS OF OTHER DOCUMENTS OF INSTITUMENTS RELATING TO ON INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT OR SURVEY.

SEAL

IGNED: CEM

DESIGNED: CEM

CHECKED: CAL

DATE: 02/28/02

PROJECT NO.: 01-064

SHEET 2 OF 11

COOL SPRINGS CONNECTOR ROAD NOTES

CITY OF O'FALLON
COMMUNITY DEVELOPMENT
DESIGN DIVISION
O'FALLON, MISSOURI

