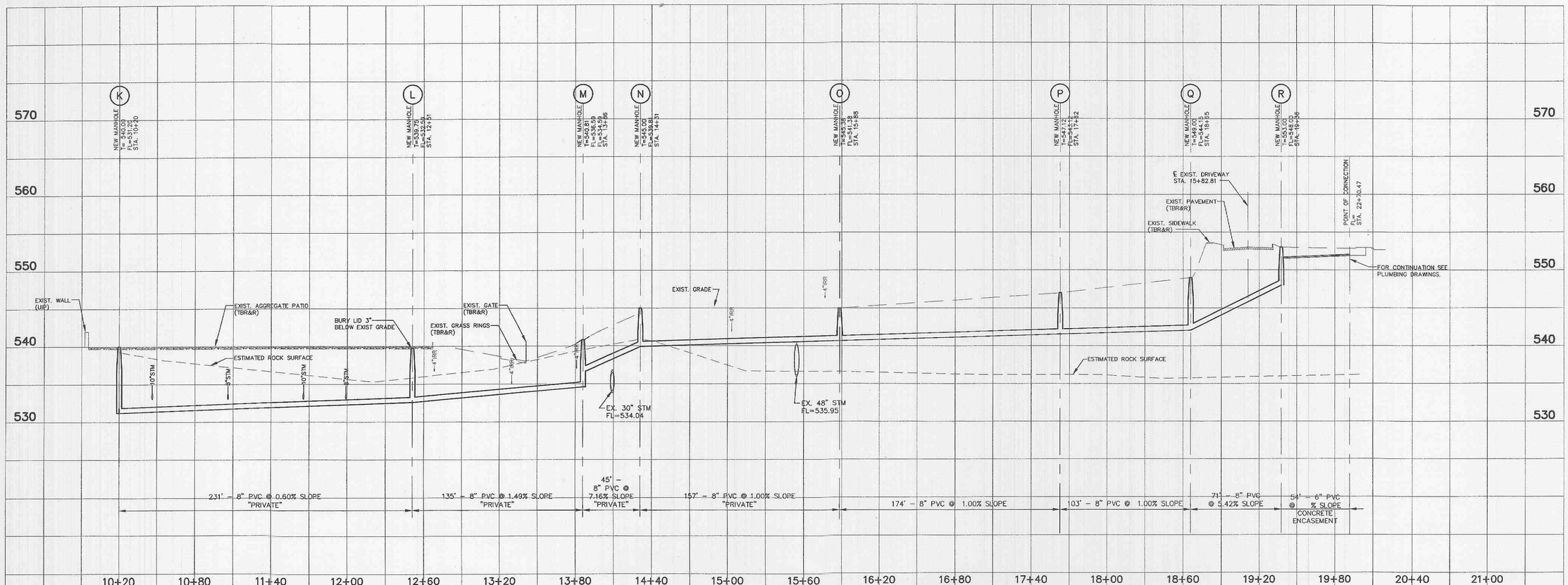
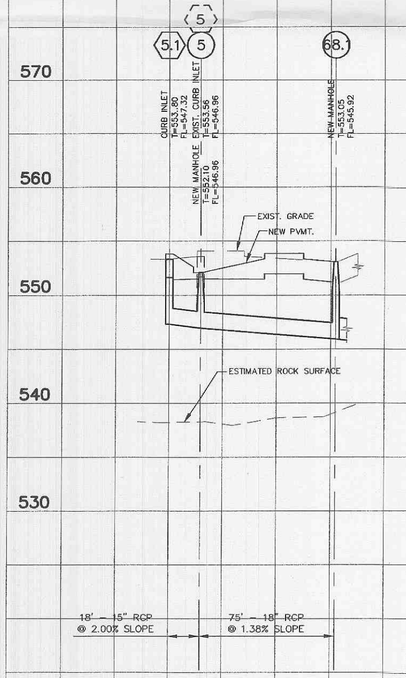



## SANITARY STORM SEWER PROFILE

AS NOTED




## STORM SEWER PROFILE

AS NOTED

## DUCKETT CREEK SANITARY DISTRICT CONSTRUCTION NOTES

1. Underground utilities have been plotted from available information and therefore location shall be considered approximate only. The verification of the location & elevation 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.
2. Gas, water and other underground utilities shall not conflict with the depth or horizontal location of existing or proposed sanitary and storm sewers, including house laterals.
3. All existing site improvements disturbed, damaged or destroyed shall be repaired or replaced to closely match preconstruction conditions.
4. All fill including places under proposed storm and sanitary sewer lines and paved areas including trench backfills within and off the road right-of-way shall be compacted to 90 percent of maximum density as determined by the "Modified AASHTO T-180 Compaction test (ASTM D1557)". All tests shall be verified by a Soils Engineer concurrent with grading and backfilling operations. The compacted fill shall be free of rutting and shall be non-yielding and non-pumping during proofrolling and compaction.
5. The contractor shall prevent all storm, surface water, mud and construction debris from entering the existing sanitary sewer system.
6. All sanitary sewer flowlines and tops built without elevations furnished by the engineer will be the responsibility of the sewer contractor.
7. Easements shall be provided for all public sanitary sewers, storm sewers and all utilities on the record plat.
8. All construction and materials shall conform to the current construction standards of the Duckett Creek Sanitary District.
9. The Duckett Creek Sanitary District shall be notified at least 48 hours prior to construction for coordination of inspection.
10. All sanitary sewer building connections shall be designed so that the minimum vertical distance from the low point of the basement to the flowline of a sanitary sewer at the corresponding building connection shall not be less than the diameter of the pipe plus the vertical distance of 2-1/2 feet.
11. All sanitary sewer manholes shall be waterproofed on the exterior in accordance with Missouri Dept. of Natural Resources specification 10CSR-8.120(7)(E).
12. All PVC sanitary sewer pipe shall conform to the requirements of ASTM D-3034 Standard Specification for PSM Polyvinyl Chloride Sewer Pipe, SDR-35 or equal, with "clean" 1/2-inch to 1-inch granular stone bedding uniformly graded. This bedding shall extend from 4 inches below the pipe to springline of pipe. Immediate backfill over pipe shall consist of same size "clean" or "minus" stone from springline of pipe to 6 inches above the top of pipe.
13. All sanitary and storm sewer trench backfills shall be water jetted. Granular backfill will be used under pavement areas.
14. All pipes shall have positive drainage through manholes. No flat invert structures are allowed.
15. All creek crossings shall be grouted rip-rap as directed by District inspectors. (All grout shall be high slump ready-mix concrete.)
16. Brick shall not be used on sanitary sewer manholes.
17. Existing sanitary sewer and utility services shall not be interrupted.
18. Maintain access to existing residential driveways and streets.
19. Pre-manufactured adapters shall be used at all PVC to DIP connections. Rubber boot / Mission-type couplings will not be allowed.
20. Any permits, licenses, easements, or approvals required to work on public or private properties or roadways are the responsibility of the developer.
21. At utility crossings, utilities shall be supported as necessary during the installation of the new work.

## Utility Notes

1.) All Sewer construction shall comply with the City of O'Fallon, WingHaven, Duckett Creek Sanitary District, and Metropolitan St. Louis Sewer District Requirements, standards and specifications.

2.) All Water construction shall comply with Public Water District No. 2 requirements, standards, and specifications.

3.) All utilities shall be installed a minimum of 36 inches below finished grade to insure frost protection.

4.) Maintain 2 feet vertical separation between water and electric lines. Locate water main joints equidistant from crossing of electric ductbank (5 to 10 feet).

5.) Maintain at least 10 feet horizontal separation between water and sanitary sewer.

6.) Sanitary sewers shall be as shown on the drawings.

7.) Water mains shall be as shown on the drawings.

MasterCard

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STATE OF MISSOURI STEVEN M. SKASICK E-20690 REGISTERED PROFESSIONAL ENGINEER

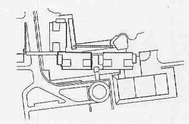
Issue

| # | Date | Description | Drwn | Chk |
|---|---|---|---|---|

North

Seal

Key Plan



Date 19 DEC. 2001 Project Code 98-0478-001
Drawn CMB Checked SMS
CAD File 99406C3.DWG

Scale 1"=30' HORZ.
1"=5' VERT.

Original drawing sheet is 48" x 36"-Scale accordingly if reduced

SEWER PROFILES

Drawing Number C.3