

## GENERAL NOTES

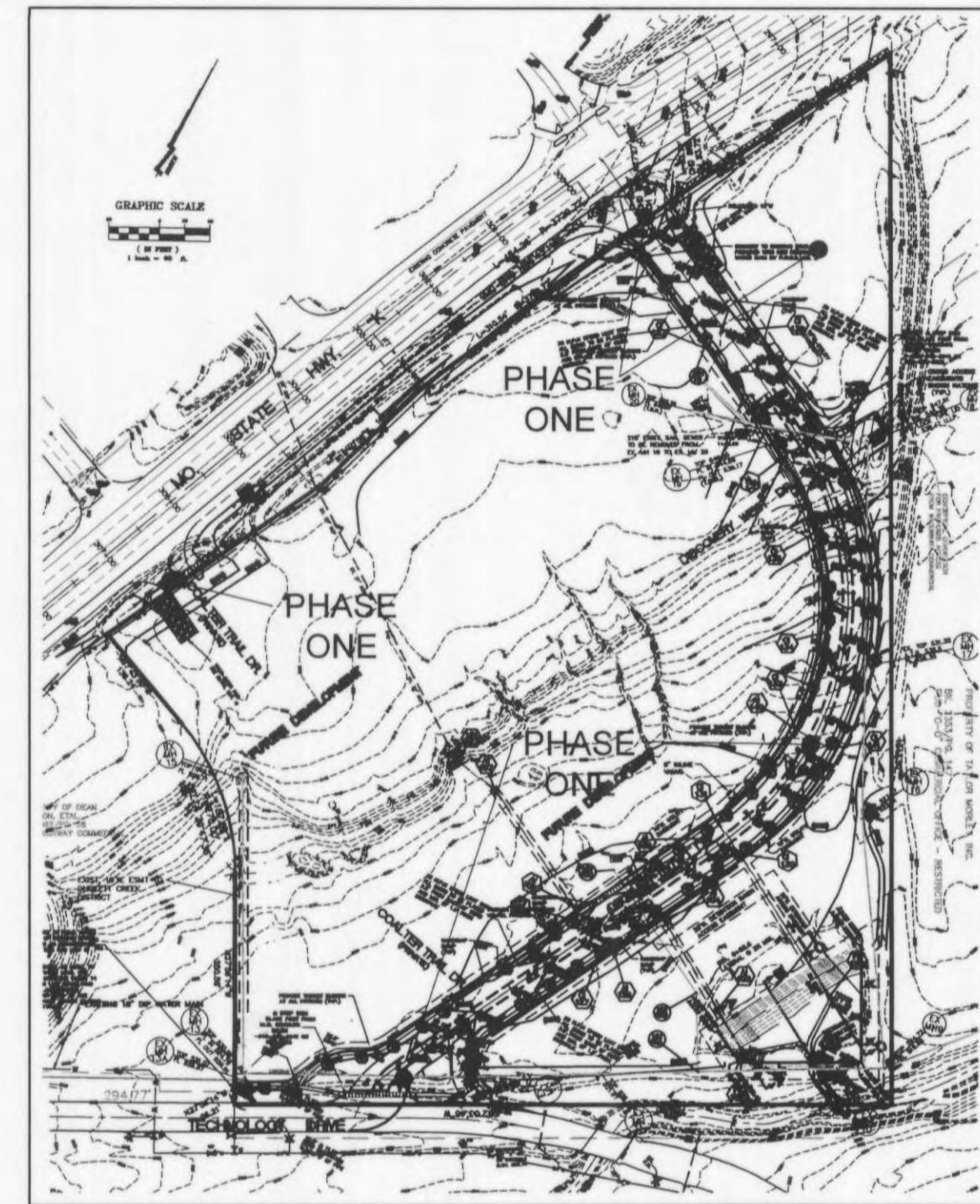
- | 1. Gas, Water and other underground utilities shall not conflict with the depth or horizontal location of existing and proposed sanitary and storm sewers including house laterals.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 31. Lighting values will be reviewed on site prior to the final occupancy inspection. Corrections will need to be made if not compatible with city standards.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------|----------------|----------------|-------------------|--------|-------------------|--------------------------------|-------------------------|----|-------|-----------------------------|
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 32. Brick shall not be used in the construction of sanitary or storm sewer construction. Precast concrete structures are to be used unless otherwise approved by the city.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 33. The City of O'Fallon shall also be contacted for utility locates under its maintenance responsibility. This may include water, sanitary, storm, and traffic locates.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 4. Storm Sewers 18" diameter or smaller shall be ASTM C-14.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 34. Rip rap shown at flared ends will be evaluated in the field after installation of effectiveness and field modified if necessary to reduce erosion on and off site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 5. Storm Sewers 21" diameter or larger shall be ASTM C-76, Class II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 35. Joints shall be gasketed O-ring type.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 6. All storm sewer pipe under pavement, regardless of size, shall be reinforced concrete pipe (ASTM C-76, Class II) unless noted otherwise on these plans.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 36. Grades for entrances should not exceed 2% at walks, 4% from street and 10% overall. Typically 2% from back of curb through the right of way is desired.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 7. All filled placed under proposed storm and sanitary sewer, proposed roads, and/or paved areas shall be compacted to 90% of maximum density as determined by the Modified AASHTO T-180 Compaction Test or 95% of the AASHTO T-99 test. All fill placed in proposed roads shall be compacted from the bottom of the fill up. All tests shall be verified by a soils engineer concurrent with grading and backfilling operations. Note that moisture content of the soil in fill areas is to correspond to the compactive effort as defined by the standard or modified proctor test. Optimum moisture content shall be determined using the same test that was used for compaction. Soil compaction curves shall be submitted to the city of O'Fallon prior to the placement of fill. Proof rolling may be required to verify soil stability at the discretion of the city of O'Fallon. | 37. Flood data provided per FIRM Map of St. Charles County, Missouri and incorporated areas, panel 430E. Map number 290316, revised August 2, 1996. Data verified with FEMA on-line web site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 8. The moisture content of the soil in fill areas is to correspond to the compactive effort as defined by the Standard or Modified Proctor Test. Optimum moisture content shall be determined using the same test that was used for compaction. Soil compaction curves shall be submitted to the City of O'Fallon prior to the placement of fill. Proof rolling may be required to verify soil stability at the discretion of the City of O'Fallon.                                                                                                                                                                                                                                                                                                                                                                                                                                      | 38. All sanitary laterals and sanitary mains crossing under roadways must have the proper rock backfill and compactive effort.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 9. All paving to be in accordance with St. Charles County Standards and specifications except as modified by the City of O'Fallon ordinances.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 39. All proposed fencing to require separate permit through planning division.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 10. All storm and sanitary trench backfills will be water jetted. Granular backfill will be used under pavement areas.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 40. All sign locations and sizes must be approved separately through the planning division. Sign locations to be shown on the plans.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 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. All existing and proposed monuments will be shown on the final record plat.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 41. At new entrance construction, all pavement is to be removed to the nearest curb joint.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 12. No area shall be cleared without permission of the developer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 42. If the proposed entrance is intersecting with an existing roadway that is not curbed, then the curbing on the new entrance shall begin 10' from the edge of the existing roadway.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 13. All grade shall be within 0.2 feet more or less of those shown on the grading plan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 43. HDPE pipe is to be N-12WT or equal and to meet ASTM F1417 water tight field test.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 14. No slope shall be greater than 3:1 and shall be either sodded or seeded and mulched. All disturbed ground in the Hwy. K R.O.W. shall be sodded.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 44. Trees, organic debris, rubble, foundations and other deleterious material shall be removed from the site and disposed of in compliance with all applicable laws and regulations. Landfill tickets for such disposal shall be maintained on file by the developer. Burning on site shall be allowed only by permit from the local fire district. If a burn pit is proposed, the location and mitigation shall be shown on the grading plan and documented by the soils engineer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 15. All manhole and catch basin 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 staked. If normal face stakes fall in line with sewer construction the Engineer will set these stakes on a double off set. It shall be the responsibility of the sewer contractor to preserve all face stakes from destruction.                                                                                                                                                                                                                                                                                                                                                                                                                  | 45. All siltation and erosion control measures (silt fences, siltation basins, etc.) to follow "St. Charles County Soil and Water Conservation District Erosion and Sediment Control Guidelines".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 16. All standard street curb inlets to have front of inlet 2 feet behind curb.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 46. Note 36" cover required over storm and sanitary lines.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 17. 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').                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 47. All area inlets to have incoming swales at 2% minimum.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 18. Water lines, valves, sleeves, meters and etc. shall meet all specifications and installation requirements of the local governing authority.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 48. All drop manholes to be 48" diameter.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 19. Ductile Iron pipe shall conform to AWWA C-151 and be cement lined and seal coated in accordance with AWWA C-104. The joints shall be push on type with rubber gaskets conforming to AWWA C-111. In general, ductile iron pipe shall be pressure Class 250 with Class 50 wall thickness.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 49. Provide 20' of ductile iron pipe when the sanitary line crosses over the storm line and/or sewer lines.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 20. All water hydrants and valves shall be cast iron and installed in accordance with plans and details. Hydrants shall meet all specifications and installation requirements of the local governing authority.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 50. Illumination attributable to exterior lighting, as measured at the property line, shall not exceed 0.5 foot-candles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 21. All sanitary and storm sewers shall meet all specification and installation requirements of the local governing authority.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 51. All utilities crossing under existing streets of collector size and greater shall be in conduit or casing pipe.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 22. All P.V.C. water pipe shall be Class 200, with a standard dimension ratio (SDR) of 21 or as otherwise directed by the Water District No. 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 52. All proposed utilities under existing city of O'Fallon streets shall be bored.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 23. All P.V.C. sanitary sewer pipe to 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 7/10 the pipe diameter above the bottom of the pipe. Areas under new pavement shall be granular backfilled.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 53. Existing agricultural use in future development area to remain until future phases are developed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 24. All grading on Missouri State Highway Right-of-Way shall be sodded and all disturbed Right-of-Way markers shall be reset at the completion of grading.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 54. Future curb cuts shown are for conceptual planning purposes and are subject to change when additional phases are developed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 25. All sign posts and backs and bracket arms shall be painted black using CarboLine Rustbond Penetrating Sealer SG and CarboLine 133 HB paint (or equivalent as approved by City and MODOT). Signs designating street name shall be on the opposite side of the street from traffic control signals.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 55. The contractor shall assume complete responsibility for controlling all siltation and erosion of the project area. The Contractor shall use whatever means necessary to control erosion and siltation including, but not limited to, staked straw bales and/or siltation fabric fences (possible methods of control are detailed in the plan). Control shall commence with grading and be maintained throughout the project until acceptance of the work by the owner and/or the City of O'Fallon and/or MODOT. The contractor's responsibilities include all design and implementation as required to prevent erosion and the depositing of silt. The owners and/or the City of O'Fallon and/or MODOT may at their option direct the contractor in his methods as deemed fit to protect property and improvements. Any depositing of silts or mud on new or existing pavement or in new or existing storm sewers or swales shall be removed after each rain and affected areas cleaned to the satisfaction of the owner and/or the City of O'Fallon and/or MODOT. |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 26. Graded areas that are to remain bare for over two weeks shall be seeded and mulched.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 56. Developer must supply city construction inspectors with soil reports prior to or during site soil testing. The soil reports will be required to contain the following information on soil test curves (proctor reports) for projects within the city:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 27. All erosion control systems shall be inspected and necessary corrections made within 24 hours of any rainstorm resulting in one-half inch of rain or more.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | a. maximum dry density<br>b. optimum moisture content<br>c. maximum and minimum allowable moisture content<br>d. curve must be plotted to show density from a minimum of 90% compaction and above as determined by the "modified aashto t-180 compaction test 9a.s.t.m. d-1157" or from a minimum of 95% as determined by the "standard proctor test asshtot-99, method c" (a.s.t.m. d-698). proctor type must be designated on document.<br>e. curve must have at least 5 density points with moisture content and sample locations listed on document.<br>f. specific gravity<br>g. natural moisture content<br>h. liquid limit<br>i. plastic limit.                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 28. This tract is served by:<br>A. OTTLEVILLE FIRE PROTECTION DISTRICT<br>B. DUCKETT CREEK SANITARY DISTRICT<br>C. CUIVRE RIVER ELECTRIC COOP.<br>D. LACLEDE GAS CO.<br>E. ST. CHARLES PUBLIC WATER DISTRICT NO. 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 57. Provide a marking on the storm sewer inlets. the city will allow the following adhesive procedures only as shown in the table below or an approved equal Almetek Industries. "Peel and stick" adhesive pads will not be allowed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |
| 29. Sidewalks, curb ramps, ramp and accessible parking spaces shall be constructed in accordance with the current approved "American with Disabilities Act Accessibility Guidelines" (ADAAG) along with the required grades, construction materials, specifications and signage. If any conflict occurs between the above information and the plans, the ADAAG guidelines shall take precedence and the contractor prior to any construction shall notify the Project Engineer. (Note that at least one eight (8) foot wide handicap access aisle is provided and curb ramps do not project into handicap access aisle).                                                                                                                                                                                                                                                                 | <table border="1"> <thead> <tr> <th>manufacturer</th> <th>size</th> <th>adhesive style</th> <th>message (part)</th> </tr> </thead> <tbody> <tr> <td>ACF International</td> <td>3 7/8"</td> <td>epoxy crystal cap</td> <td>no dumping on waterways (soil)</td> </tr> <tr> <td>DAS Manufacturing, Inc.</td> <td>4"</td> <td>epoxy</td> <td>no dumping on stream (#sds)</td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | manufacturer      | size                           | adhesive style | message (part) | ACF International | 3 7/8" | epoxy crystal cap | no dumping on waterways (soil) | DAS Manufacturing, Inc. | 4" | epoxy | no dumping on stream (#sds) |
| manufacturer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | adhesive style    | message (part)                 |                |                |                   |        |                   |                                |                         |    |       |                             |
| ACF International                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3 7/8"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | epoxy crystal cap | no dumping on waterways (soil) |                |                |                   |        |                   |                                |                         |    |       |                             |
| DAS Manufacturing, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | epoxy             | no dumping on stream (#sds)    |                |                |                   |        |                   |                                |                         |    |       |                             |
| 30. All water mains, valves, fittings, hydrants and related items are to be installed in accordance with the current St. Charles County P.W.S.D. #2 guidelines and specifications as approved by MDNR Review No. 61996-04R.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CONTRACTOR TO NOTIFY MoDOT TRAFFIC DIVISION TO LOCATE ANY EXISTING SIGNAL AND LIGHTING UNDERGROUND CABLES OR WIRES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OR EARTHWORK.<br>(314) 340-4100.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |                                |                |                |                   |        |                   |                                |                         |    |       |                             |

## IMPROVEMENT PLANS FOR

# KINGSMILL CROSSING

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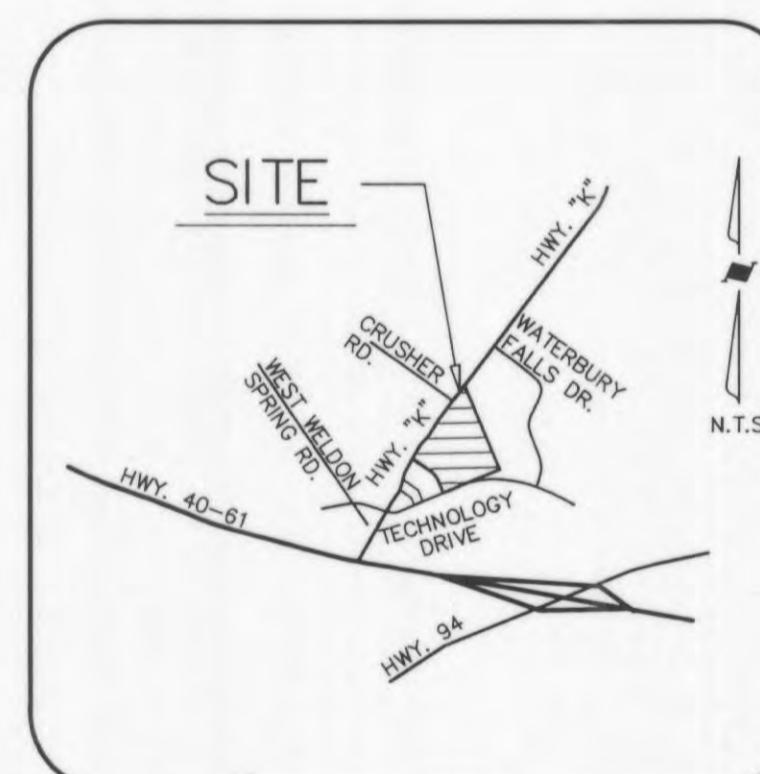
A TRACT OF LAND BEING PART OF LOT 25 OF  
THE JOHN D. COALTER'S SUBDIVISION OF HOWELL'S PRAIRIE TRACT  
IN U.S. SURVEY 1669, T.46N., R.3.E.  
ST. CHARLES COUNTY, MISSOURI



**PHASE ONE=CRUSHER DRIVE, HWY K ENTRANCES  
& WATERWAY SITE**

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NOT TO COMM



### *LOCATION MAP*

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57. Provide a marking on the storm sewer inlets. the city will allow the following markers and adhesive procedures only as shown in the table below or an approved equal by Almetek Industries. "Peel and stick" adhesive pads will not be allowed.				
manufacturer	size	adhesive style	message (part #)	website
ACF International	3 7/8"	epoxy crystal cap	no dumping drains to waterways (sd-w-cc)	<a href="http://www.acpinternational.com">www.acpinternational.com</a>
DAS Manufacturing, Inc.	4"	epoxy	no dumping drains to waterways (sd-w-cc)	<a href="http://www.dasmanufacturing.com">www.dasmanufacturing.com</a>

CONTRACTOR TO NOTIFY MoDOT TRAFFIC DIVISION TO LOCATE ANY EXISTING SIGNAL AND LIGHTING UNDERGROUND CABLES OR WIRES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OR EARTHWORK. (314) 340-4100

## PROJECT BENCHMARK

#5208 OLD CROSS ON SIDEWALK AT QUIK TRIP D

ELEV. 558.51  
#60092 CUT "X" ON SIDEWALK AT TECHNOLOGY DR. (WELDON SPRINGS RD.)  
ELEV 528.79

P & Z CASE NO. 9984.0  
APPROVED APRIL 6, 2006

KINGSMILL TRANSP.  
DEVELOPMENT DISTRICT  
14151 CLAYTON ROAD  
CHESTERFIELD, MO 63017  
636-394-3577

# ANITARY SEWER MEASUREMENTS

ER LENGTHS, SIZES, FLOWLINES, DEPTHS OF STRUCTURES AND  
EPECT TO EXISTING OR PROPOSED EASEMENTS HAVE BEEN  
SULTS OF THOSE MEASUREMENTS ARE SHOWN ON THIS SET  
MENT PLANS.

DESCRIPTION

COVER SHEET  
FLAT PLAN  
GRADING PLAN  
STREET PROFILE  
SANITARY & STORM  
DETENTION BASIN S

<p><b><u>LEGEND</u></b></p>	<p><b>Disclaimer</b></p> <p><i>ENGINEERS CERTIFICATION:</i>            The following applies to ALL sheets and documents in the preparation of the plans and documents for this project. The responsibility for Professional liability on this project is limited to the engineer displaying the signature and an original stamp on each sheet. ALL responsibility until ALL review agency approvals are granted. Plan sheets issued prior to this plan set date when another set is issued after this date; are used individually instead of a set. This statement appears on them or not. Copy reserved.</p>
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15	4/1/08	AS BUILT STORM SEWERS
14	06/21/07	AS BUILT SANITARY SEWERS
13	06/24/07	ADDED STREET SIGN INFO PER CITY REQUIREMENTS
12	2/23/07	REV. PER P.W.S.D. COMMENTS
11	12/14/06	AS BUILT SANITARY SEWERS
10	12/11/06	ADDED SHTS 13 & 14 PER PUBLIC WATER DIST. NO. 2
9	10/17/06	REV. SHT. 2 & SHT. 10 PER COTTLEVILLE FIRE DIST.

<p><b>MILL CROSSING</b></p> <p><b>COVER SHEET</b></p>	<p><b>Zavradinos Professional Services, Inc.</b></p> <p>ENGINEERING LAND SURVEYING SITE PLANNING            17813 EDISON AVE. SUITE 201            CHESTERFIELD, MO 63005</p> <p>6 - 946 - 5555    636 - 449 - 0148 FAX    <a href="http://www.zavradinos.com">www.zavradinos.com</a></p>
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"AS BUILT" STORM  
SEWERS 5/9/07  
AND 4/1/08 AND  
"AS BUILT" DETENT  
BASIN 6/17/08

**SITE NOTES:**

1. CONTRACTOR TO NOTIFY THE CITY OF O'FALLOON BLDG. DEPT. 48 HOURS PRIOR TO THE COMMENCEMENT OF GRADING AND/OR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS AND DETAILS ON PROPOSED BUILDING.
3. REFER TO ARCHITECTURAL PLANS FOR DETAILS AND SPECIFICATIONS ON SITE LIGHTING, SIGNAGE FOR BUILDING, ETC.
4. ALL DIMENSIONS ARE TO BACK OF CURB.
5. ENTRANCES TO BE CONSTRUCTED PER O'FALLOON SPECIFICATIONS.
6. THE STREETS SURROUNDING THIS DEVELOPMENT AND ANY STREET USED FOR CONSTRUCTION ACCESS THERETO SHALL BE CLEANED THROUGHOUT THE DAY.
7. ALL TRASH AND DEBRIS ON-SITE, EITHER EXISTING OR FROM CONSTRUCTION, MUST BE REMOVED AND PROPERLY DISPOSED OF OFF SITE.
8. DEBRIS AND FOUNDATION MATERIAL FROM ANY ON-SITE BUILDING OR STRUCTURE THAT IS SCHEDULED TO BE RAZED FOR THIS DEVELOPMENT MUST BE PROPERLY DISPOSED OF OFF-SITE.
9. PROPOSED STORM SEWER SHALL COMPLY WITH ALL CITY, COUNTY & STATE STORMWATER MANAGEMENT ORDINANCES.
10. ALL NON-PAVED AREAS OF THIS DEVELOPMENT TO BE SEADED OR COVERED WITH SOD.
11. REFER TO GRADING PLAN FOR ADDITIONAL NOTES AND INFORMATION.
12. CONTRACTORS TO VERIFY QUANTITIES BETWEEN ARCHITECTURAL AND CIVIL PLANS FOR BIDDING.
13. EXTERIOR LIGHTING TO COMPLY WITH SECTION 400.277 OF THE CITY OF O'FALLOON CODES AND REGULATIONS.
14. ALL SIGNAGE TO REQUIRE SEPARATE REVIEW, APPROVAL AND PERMIT THROUGH PLANNING DIVISION. MONUMENT SIGN TO BE PROPOSED WHEN TENANT HAS BEEN ACQUIRED.
15. BRICK SHALL NOT BE USED IN THE CONSTRUCTION OF SANITARY SEWER STRUCTURES.
16. WATER METER LOCATION TO BE COORDINATED WITH PUBLIC WATER SUPPLY DISTRICT NO. 2 PRIOR TO INSTALLATION.
17. ALL WATER LINE INSTALLATION TO BE A MINIMUM OF 36" BELOW SURFACE GRADE.
18. ALL SIGN LOCATIONS AND SIZES MUST BE APPROVED SEPARATELY THROUGH THE PLANNING DIVISION.
19. ALL SIGN POST AND BACKS AND BRACKET ARMS SHALL BE PAINTED BLACK USING CARBOLINE RUSTBOND PENETRATING SEALER SG AND CARBOLINE 133 HB PAINT (OR EQUIVALENT AS APPROVED BY CITY AND MoDOT). SIGNS DESIGNATING STREET NAME SHALL BE ON THE OPPOSITE SIDE OF THE STREET FROM TRAFFIC CONTROL SIGNS.
20. CURB CUTS FOR WATERWAY GAS ARE SHOWN ON THE PLANS. FUTURE CURB CUTS SHOWN ARE FOR CONCEPTUAL PLANNING PURPOSES AND ARE SUBJECT TO CHANGE WHEN ADDITIONAL PHASES ARE DEVELOPED.
21. EXISTING AGRICULTURAL USE IN FUTURE DEVELOPMENT AREA TO REMAIN UNTIL FUTURE PHASES ARE DEVELOPED.
22. STORM WATER DETENTION BASIN TO BE CONSTRUCTED AS PART OF PHASE ONE IMPROVEMENTS.
23. THE EIGHT (8) FOOT WIDE MULTI-PURPOSE TRAIL ALONG HIGHWAY K, BETWEEN CRUSHER DR. AND THE SOUTHWEST PROPERTY LINE, WILL BE CONSTRUCTED WITH FUTURE PHASES OF THE IMPROVEMENT PLANS.
24. EXISTING ENTRANCE LOCATIONS ON TECHNOLOGY DR. WITHIN 300 FEET OF THE PROPOSED ENTRANCE: NONE.
25. A CROSS ACCESS EASEMENT FROM THE COALTER TRAIL DRIVE ENTRANCE AT HIGHWAY K TO THE JACKSON PROPERTY WILL BE PROVIDED AS REQUIRED WHEN FUTURE PHASES ARE DEVELOPED.



CONTRACTOR TO NOTIFY MoDOT TRAFFIC DIVISION TO LOCATE ANY EXISTING SIGNAL AND LIGHTING UNDERGROUND CABLES OR WIRES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OR EARTHWORK. (314) 340-4100.

All the improvements & facilities and utilities, above ground and underground shown herein were plotted from available information and do not necessarily reflect their actual existence, nonexistence, elevation, size, type, number or location of such facilities and utilities. The General Contractor and/or owner shall be responsible for verifying the actual location & elevation of all improvements, facilities, & utilities, shown or not shown, and said improvements, facilities, & utilities shall be located in the field prior to any grading, excavation or construction of any improvements. These provisions shall in no way absolve any party from complying with the Underground Facility Safety & Damage Prevention Act, Chapter 319, RSMo.

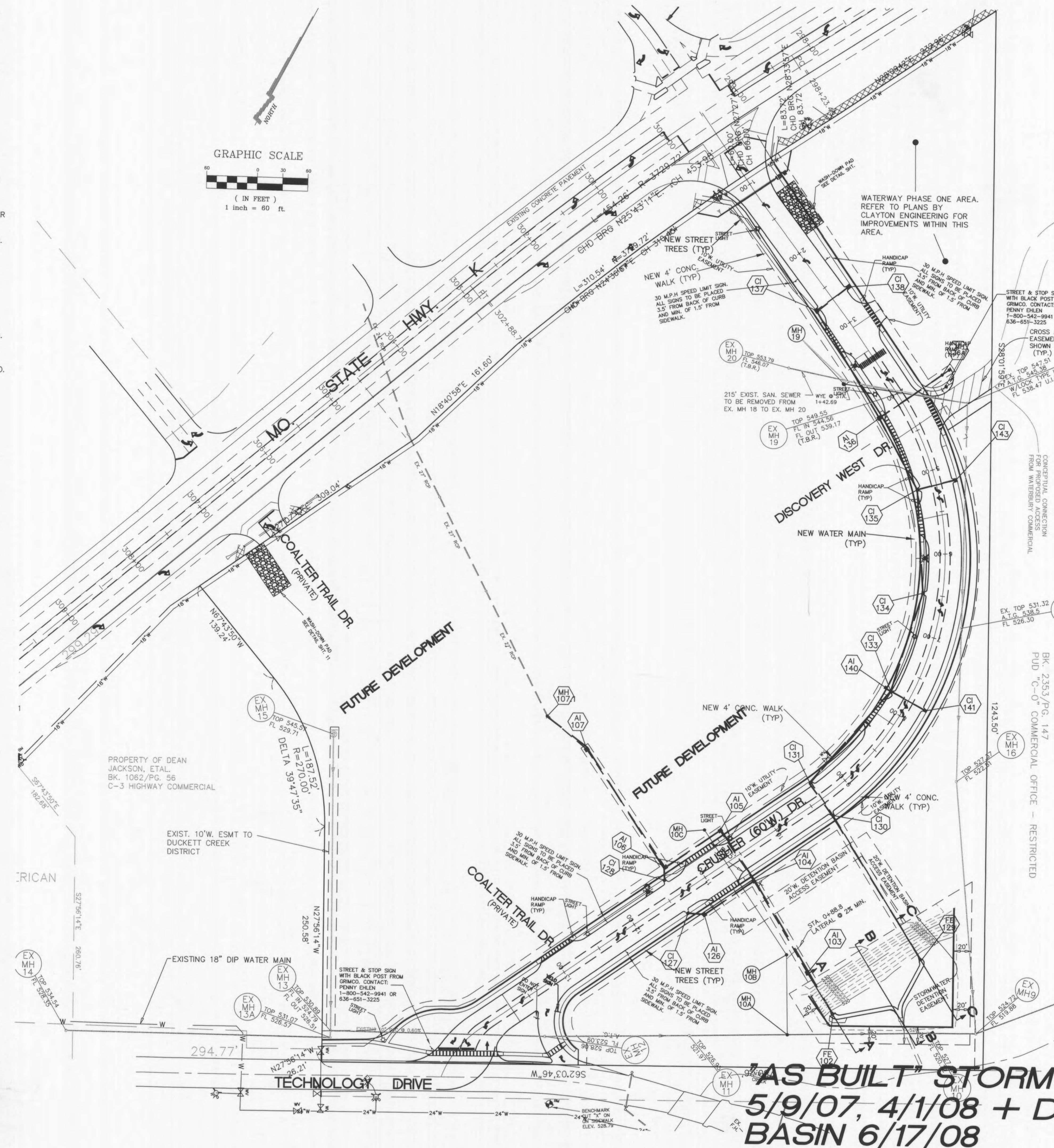
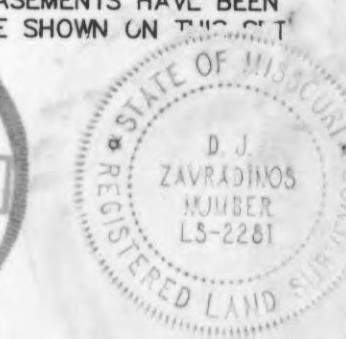
CALL MISSOURI ONE-CALL 1-800-DIG-RITE.

**NOTE:**  
FOR ALL WORK WITHIN THE MISSOURI STATE RIGHT-OF-WAY FOR HIGHWAY K REFER TO KINGSMILL MoDOT ENTRANCE PLANS

**STORM SEWER MEASUREMENTS**

THE EXISTING SEWER LENGTHS, SIZES, FLOWLINES, DEPTHS OF STRUCTURES AND LOCATIONS WITH RESPECT TO EXISTING OR PROPOSED EASEMENTS HAVE BEEN MEASURED. THE RESULTS OF THOSE MEASUREMENTS ARE SHOWN ON THIS PLAN OF FINAL MEASUREMENT PLANS.

BY: D. J. ZAVRADNOS  
MO. LS-2281



**"AS BUILT" STORM SEWERS**  
**5/9/07, 4/1/08 + DETENTION**  
**BASIN 6/17/08**

**KINGSMILL CROSSING**  
**OVERALL CONSTRUCTION PLAN-PHASE 1**

**Zavradinos Professional Services, Inc.**

ENGINEERING LAND SURVEYING SITE PLANNING  
17813 EDISON AVE. SUITE 201  
CHESTERFIELD, MO 63005  
636 - 949 - 0148 FAX www.zavradinos.com

**KINGSMILL TRANSPL.**

14151 CLAYTON ROAD

CHESTERFIELD, MO 63017  
636-354-3577

Client

2

THORNLESS HONEY LOCUST  
(GLIDITSA TRIACANTHOS INERMIS)  
2" CALIPER @ 3" ABOVE GROUND

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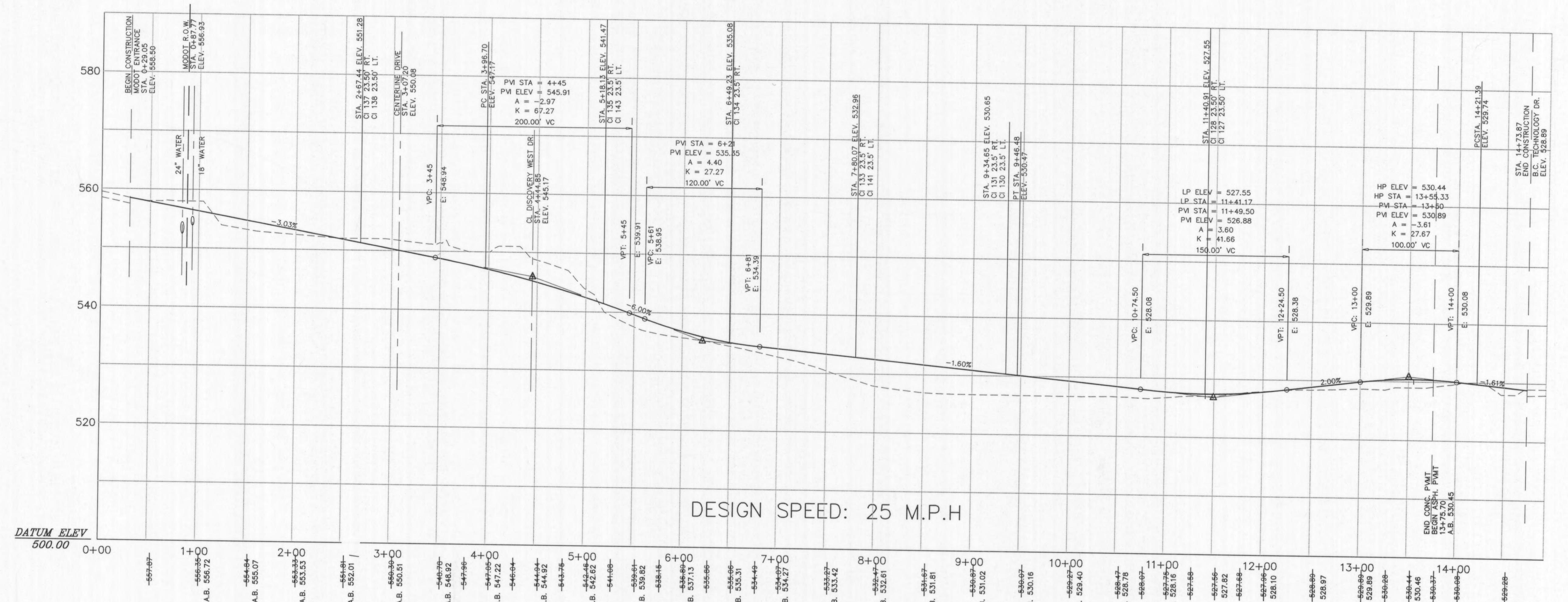
ZAVRADNOS PROFESSIONAL SERVICES, INC.

15	04/1/08	AS BUILT STORM SEWERS
14	06/21/07	ADDED STREET SIGN INFO PER CITY REQUIREMENTS
13	06/24/07	ADDED STREET SIGN INFO PER CITY REQUIREMENTS
12	06/11/07	ADDED TEMP. ASPH. PAV.
11	06/06/07	REV. STREET LIGHTS (E.E.)
10	12/14/06	AS BUILT SANITARY SEWERS LOCATIONS PER FIRE DIST.
9	10/17/06	REV. FIRE HYDRANT LOCATIONS PER FIRE DIST.
No.	Date	Revision/Issue

CITY/COUNTY JOB NO.: 988404 APRIL 6, 2006	MDP P- BASEMAP	Original Issue Date 5/1/06
Drawn By ZFS PM	JRE	Drawn On 5/1/06
Project No. 98619	Sheet 2	Project No. 98619



M:\Land Projects\96119 Kings Mill, Walmar Investments\DWG\00\_IMP\_PLANS-PHASE 1.dwg, 9/16/2008 11:47:42 AM



# ***CRUSHER DRIVE***

SCALE: 1" = 60' HORIZ.  
1" = 10' VERT.

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CONTRACTOR TO NOTIFY MoDO  
TRAFFIC DIVISION TO LOCATE  
ANY EXISTING SIGNAL AND  
LIGHTING UNDERGROUND  
CABLES OR WIRES PRIOR TO  
THE COMMENCEMENT OF  
CONSTRUCTION OR EARTHWORK  
(314) 340-4100.

## CENTERLINE STREET ELEVATIONS

THE EXISTING STREET CENTERLINE ELEVATIONS HAVE BEEN TAKEN ON 6-17-08.  
THE RESULTS OF THOSE MEASUREMENTS ARE SHOWN ON THIS SET  
OF FINAL MEASUREMENT PLANS.

~~BY: D. J. ZAVRADIN  
MO 1S 2261~~

NOTE:  
ALL CONSTRUCTION, STRUCTURES, IMPROVEMENTS,  
GRADING, ETC. OUTSIDE OF CRUSHER ROAD RIGHT-  
OF-WAY AND MODOT RIGHT-OF-WAY ARE NOT  
INCLUDED IN CONTRACT. SEE IMPROVEMENT PLANS  
FOR KINGSMILL CROSSING FOR DETAILS. THE ONLY  
EXCEPTION TO THE ABOVE SHALL BE THE REMOVAL  
OF EXISTING MH 19 TO EXISTING MH 20 SANITARY  
SEWER AND CONSTRUCTION OF NEW SANITARY  
SEWER FROM EX. MH 19 TO MH 5 AND THE 80' OF  
16" STEEL CASING PIPE FOR SANITARY SEWER  
CROSSING AT CRUSHER STA. 10+78.09.

# "AS BUILT" CENTERLINE PAVEMENT 6-17-08

**KINGSMILL TRANSP.  
DEVELOPMENT DISTRICT**  
14151 CLAYTON ROAD  
CHESTERFIELD, MO 63017  
636-394-7577

# KINGSMILL CROSSING RUSHER DRIVE PROFILE

100

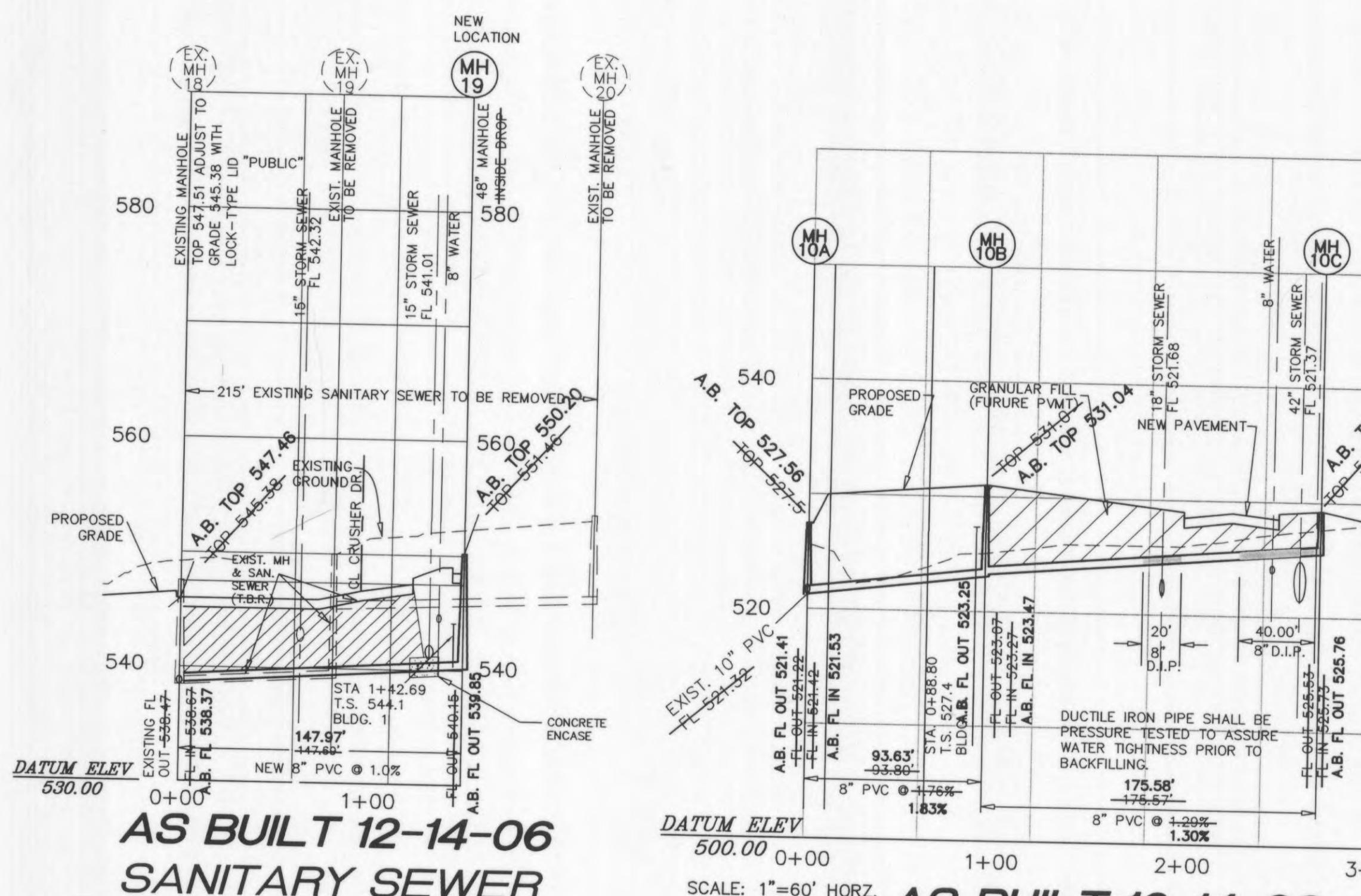
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ZAVRADINOS PROFESSIONAL SERVICES, INC.			
No.	Date	Revision / Issue	
1	5/4/06	REVISED CRUSHER PROFILE	
15	8/18/06	REV. PER CITY COMMENTS	

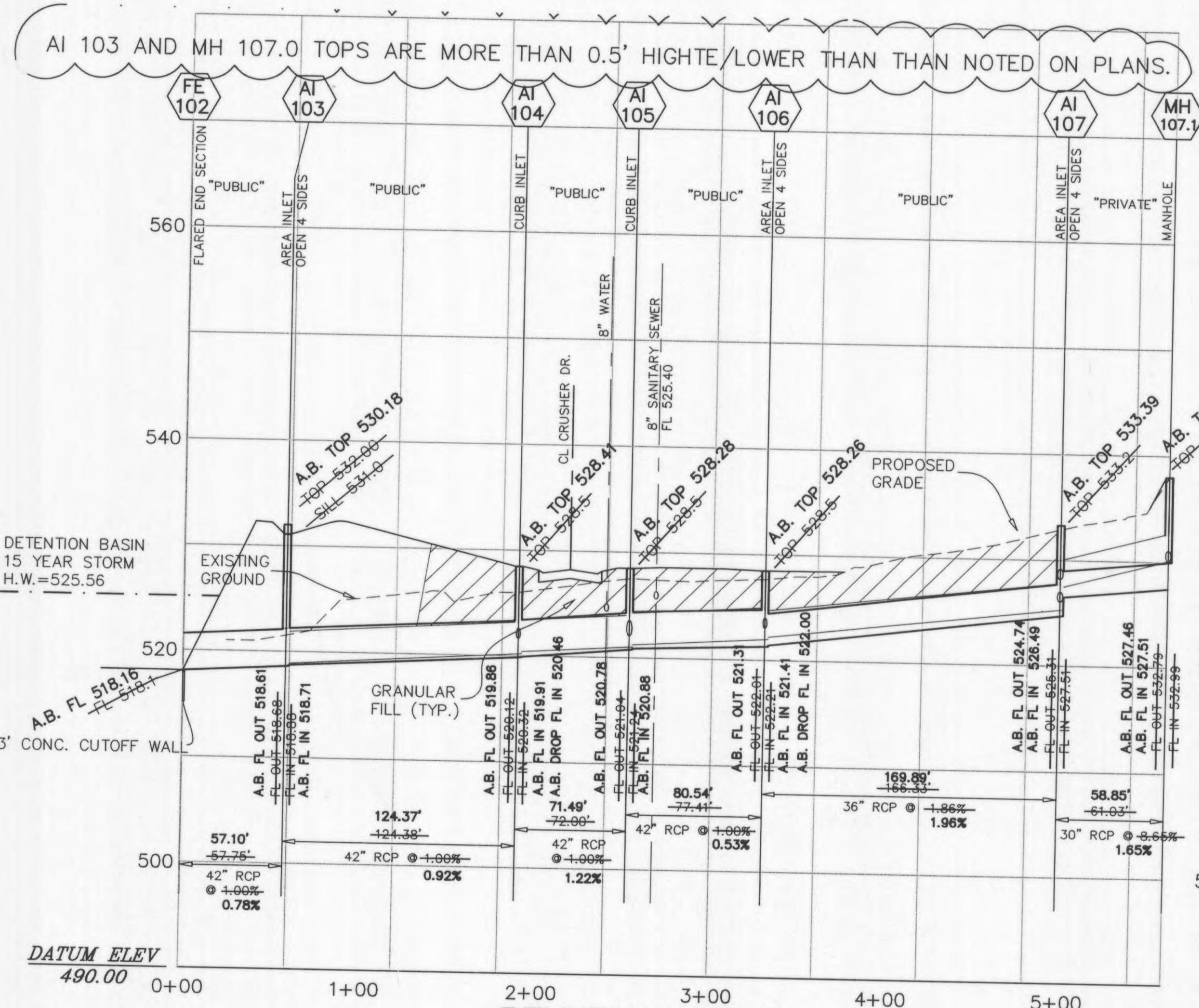
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**AS BUILT 12-14-06  
SANITARY SEWER**

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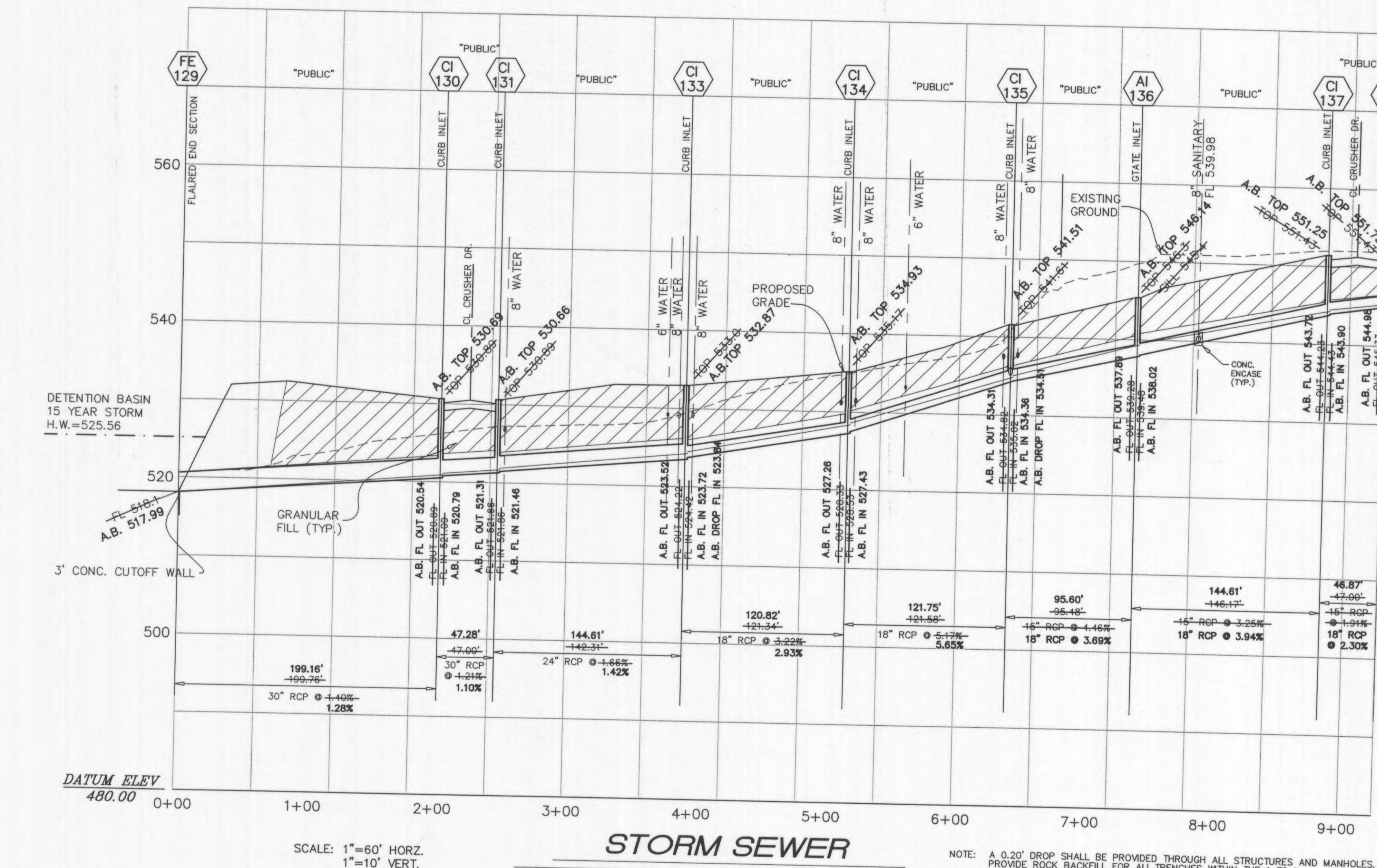


## **STORM SEWER**

SCALE: 1"=60' HORZ.  
1"=10' VERT.

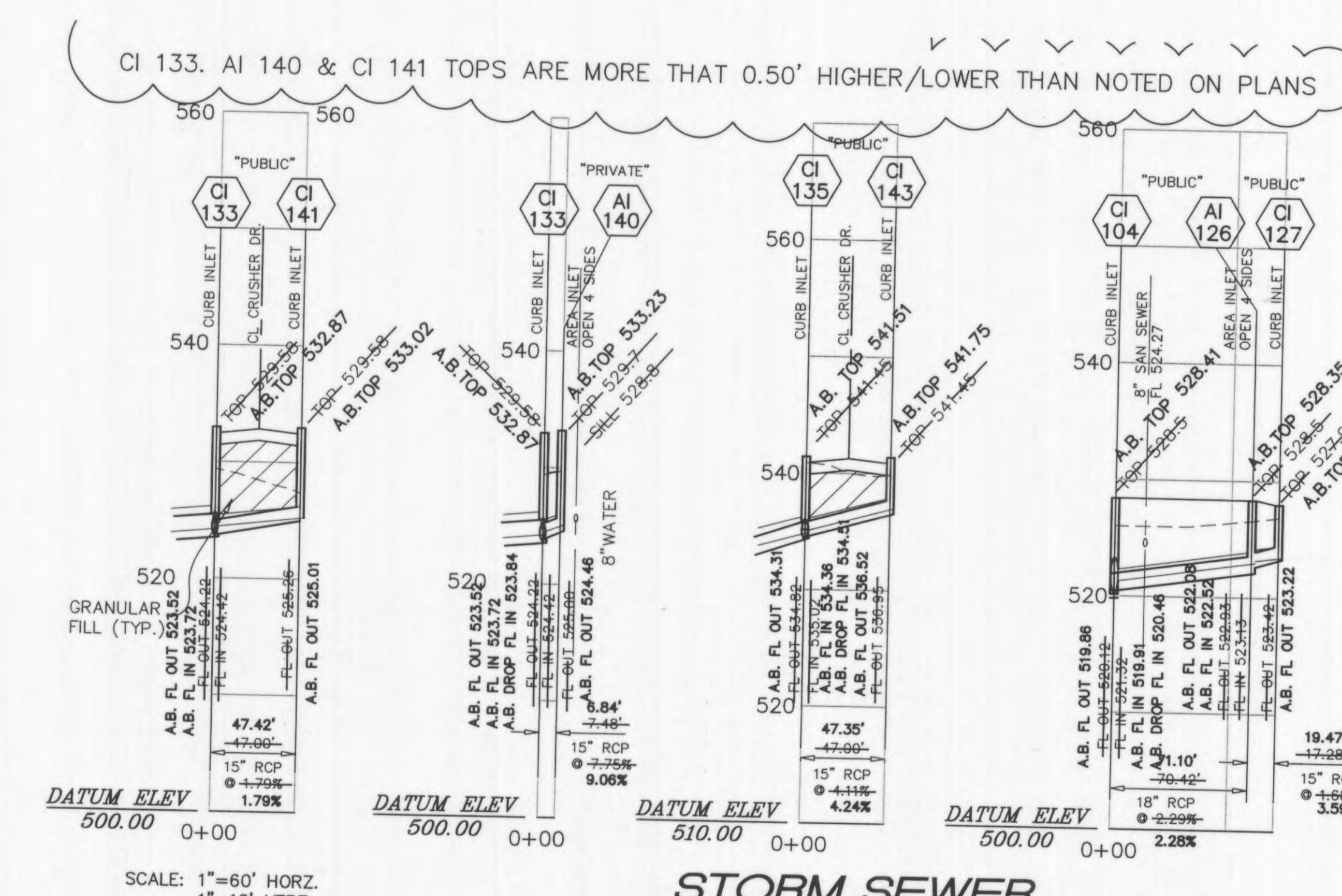
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NOTE: 1. A 0.20' DROP SHALL BE PROVIDED THROUGH ALL STRUCTURES AND MANHOLES  
2. PROVIDE COMPACTED ROCK BACKFILL IN THE DISTURBED GROUND AROUND ALL D  
3. PROVIDE ROCK BACKFILL FOR ALL TRENCHES WITHIN THE 1 TO 1 SHEAR PLANE  
OF THE BACK OF CURB.



# ***STORM SEWER***

OTE: A 0.20' DROP SHALL BE PROVIDED THROUGH ALL STRUCTURES AND MANHOLES  
PROVIDE ROCK BACKFILL FOR ALL TRENCHES WITHIN THE 1 TO 1  
SHEAR PLANE OF THE BACK OF CURB



# ***STORM SEWER***

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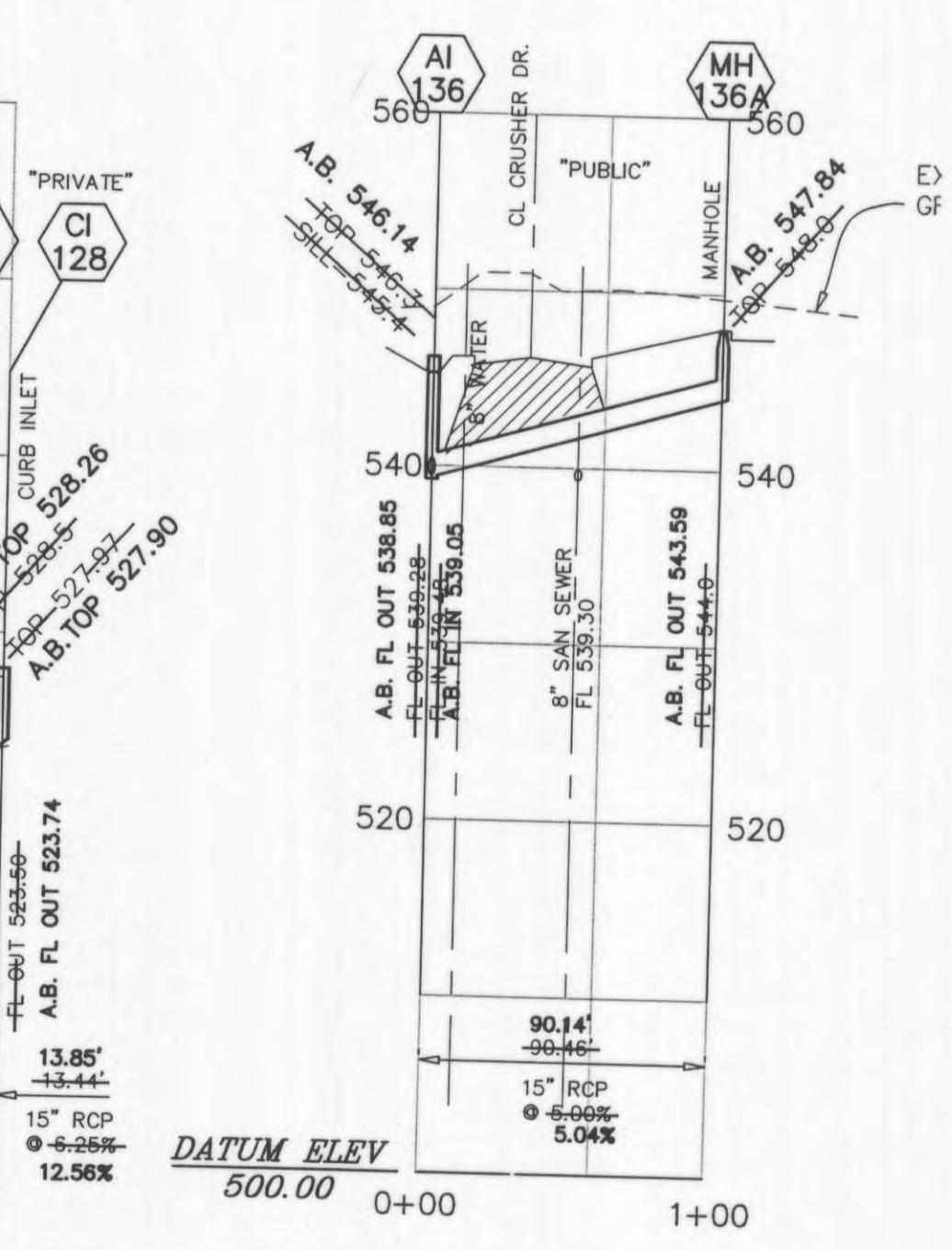
NOTE: A 0.20' DROP SHALL BE PROVIDED THROUGH ALL STRUCTURES AND MANHOLES.  
PROVIDE ROCK BACKFILL FOR ALL TRENCHES WITHIN THE 1 TO 1  
SHEAR PLANE OF THE BACK OF CURB.

# KINGSMILL CROSSING

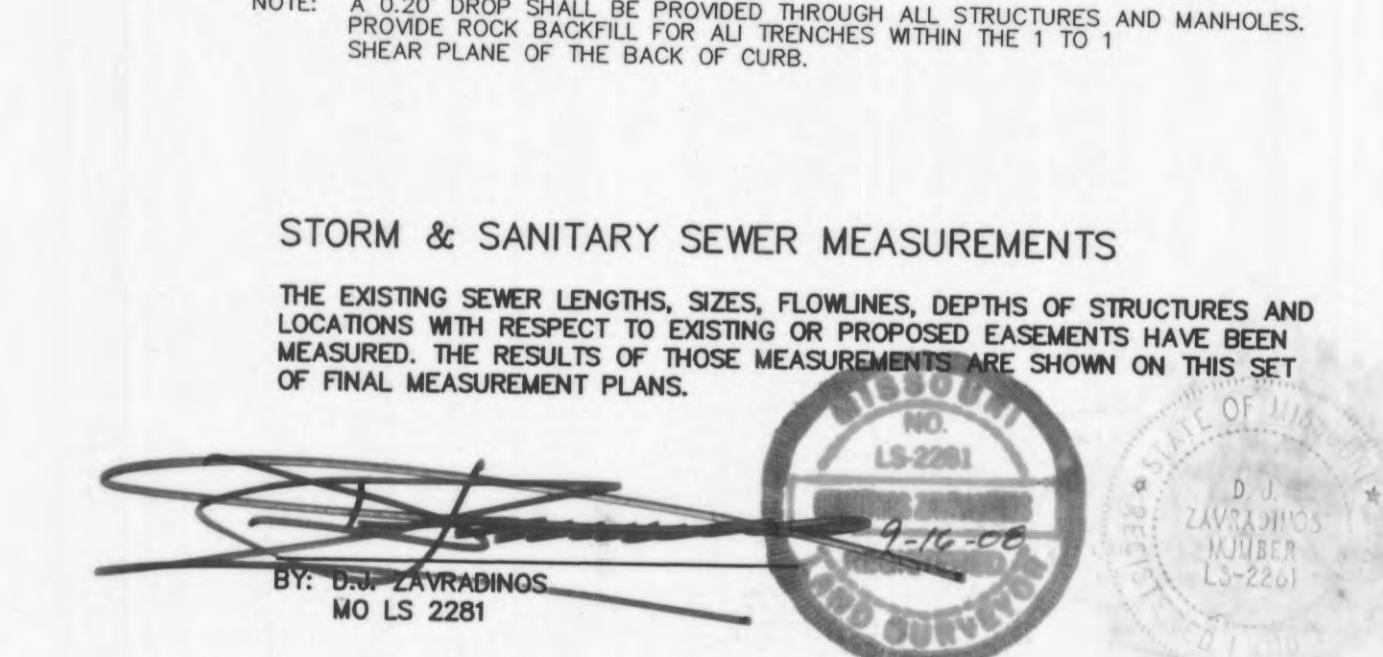
## SEWER PROFILES

**Zavradinos Professional Services,**  
ENGINEERING LAND SURVEYING SITE PLANNING  
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17813 EDISON AVE. SUITE 201  
CHESTERFIELD, MO 63005  
636 - 946 - 5555 636 - 449 - 0148 FAX

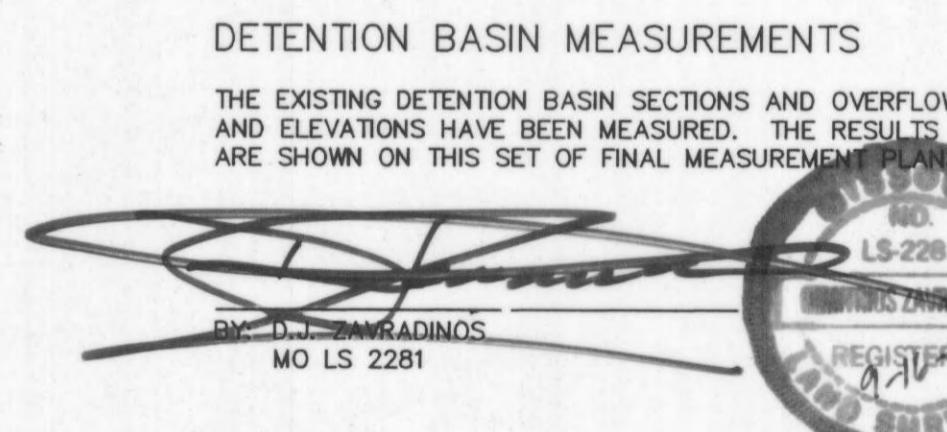
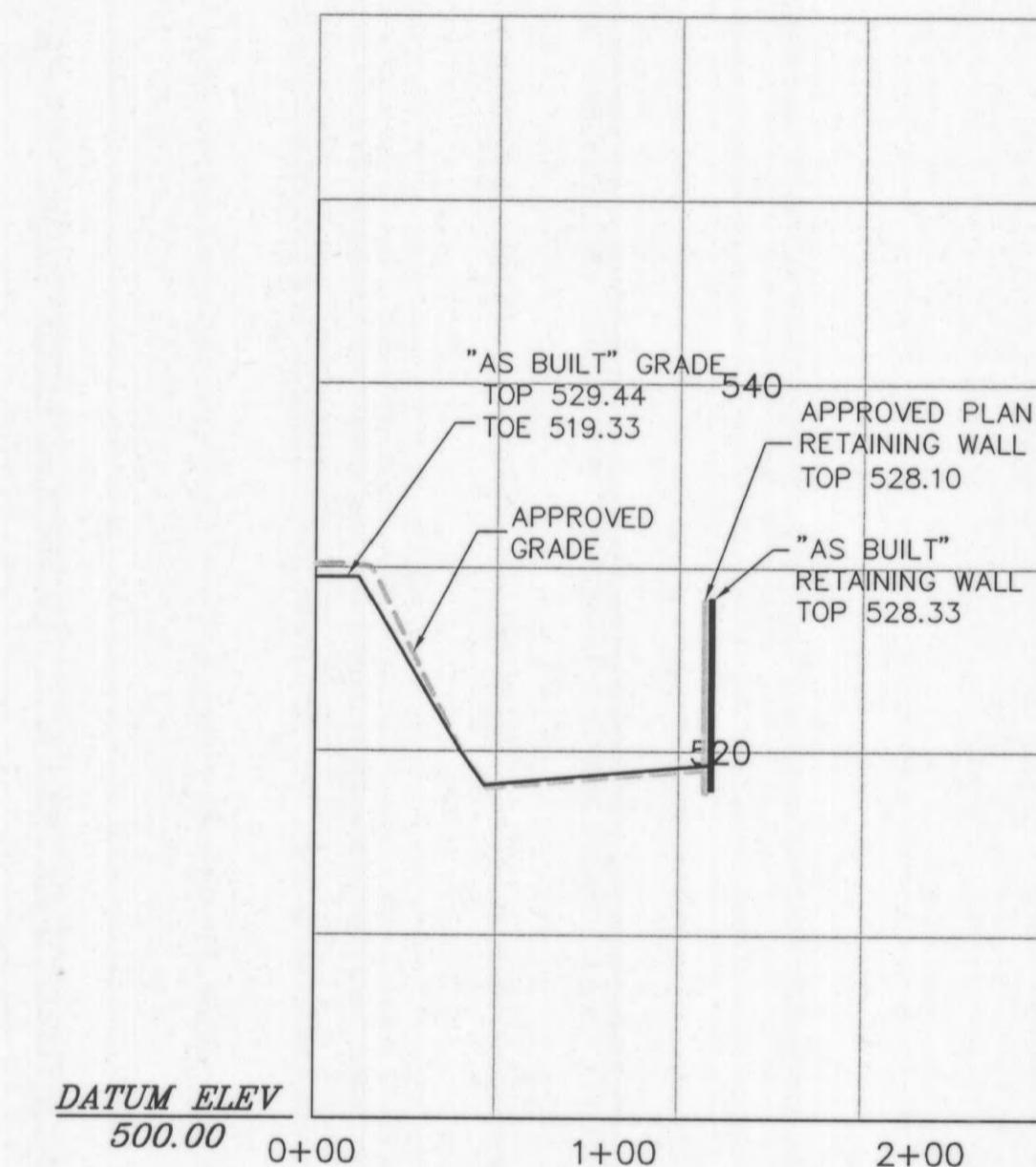
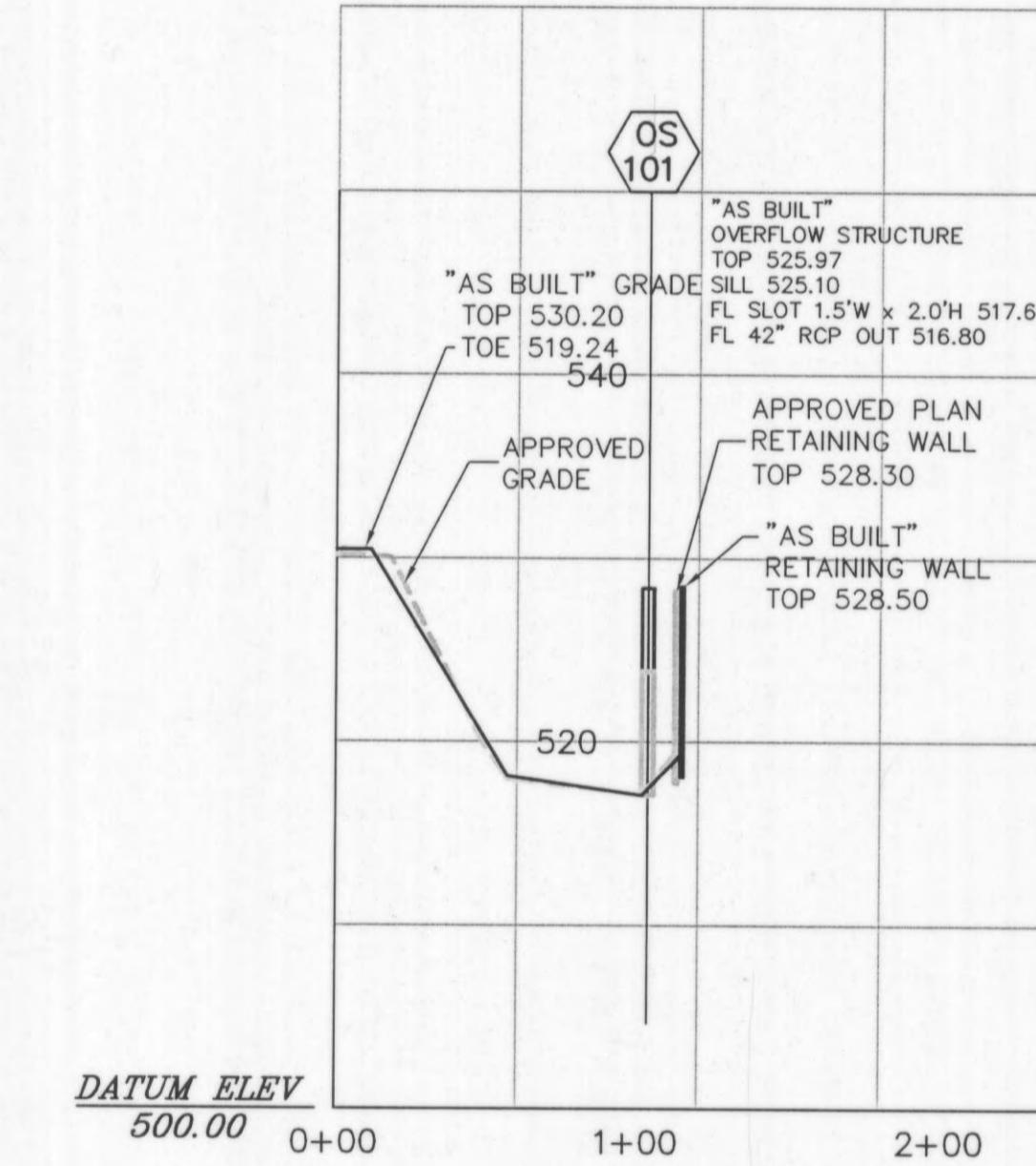
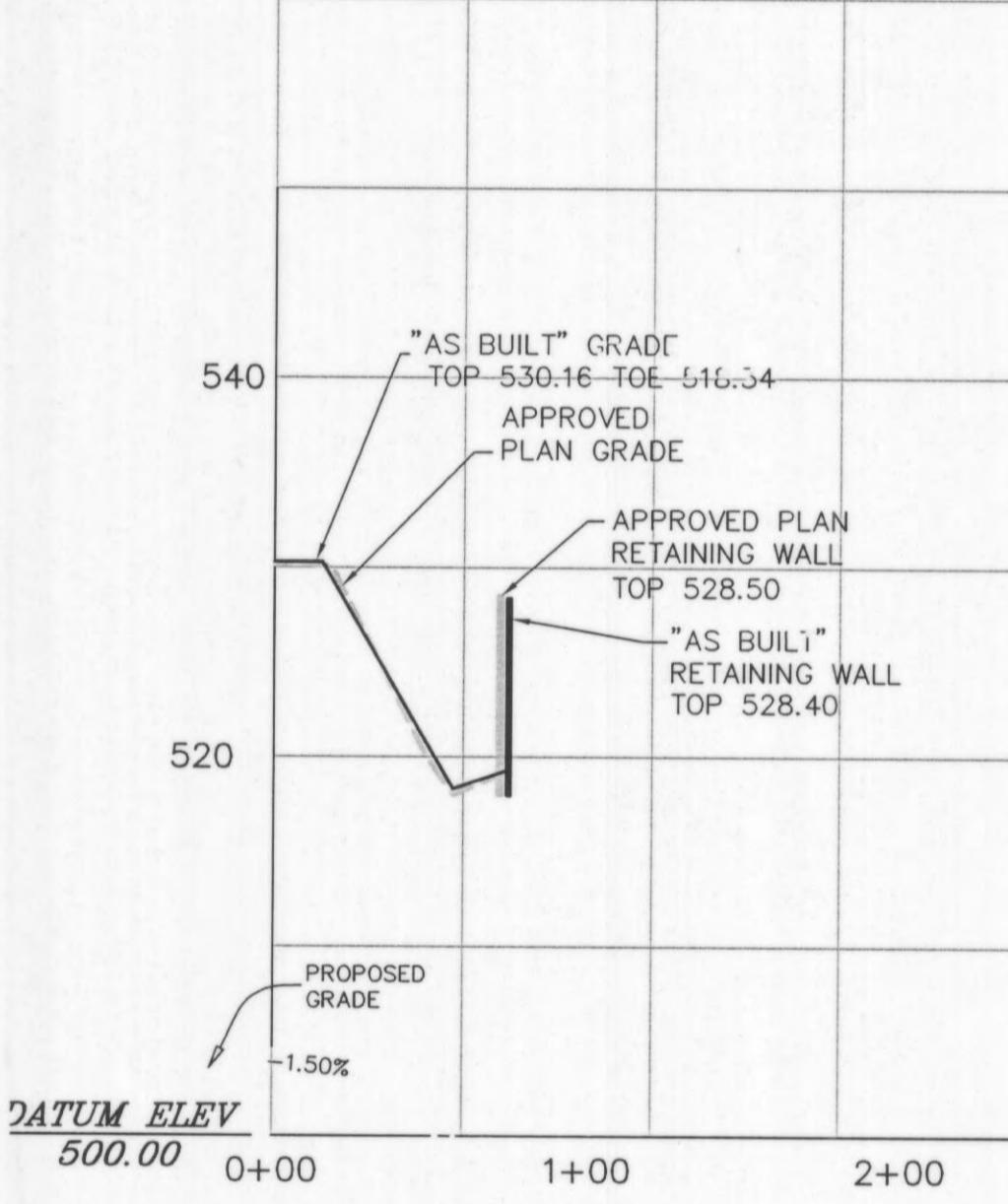


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# **"AS BUILT" STORM SEWERS 5/9/07 AND 4/1/08**

CITY/COUNTY JOB NO: <b>9984.04 APRIL 6, 2006</b>			
MSD P- BASEMAP			
Original Issue Date <b>5/1/06</b>		ZPS PM <b>JRE</b>	Sheet <b>5</b>
Drawn By <b>JBC</b>	Project No. <b>96119</b>		



**"AS BUILT" DETENTION  
BASIN SECTIONS  
6/17/08**

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CHESTERFIELD, MO 63105  
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**KINGSMILL CROSSING**  
**DETENTION BASIN SECTIONS**

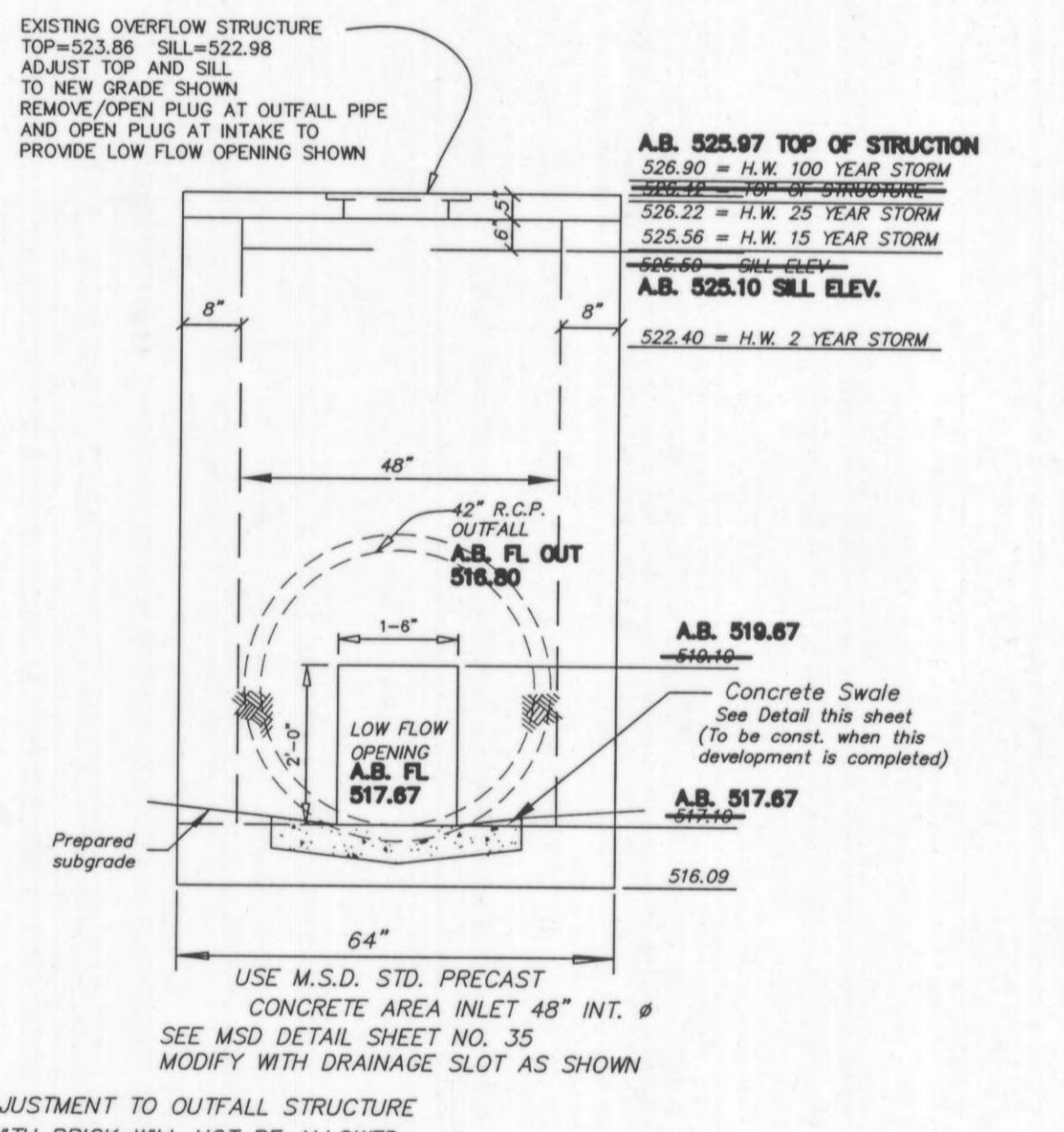
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Date	Revision/Issue

CITY/COUNTY JOB NO: 96119 APRIL 6, 2006	MSD P- BASEMAP
Original Issue Date 6/17/08	Drawn By GW
2PM	Sheet 5A
Project No. 96119	

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