

GRADING NOTES

- A Geotechnical Engineer shall be employed by the owner and be on site during grading operations. All soils tests shall be verified by the Geotechnical Engineer concurrent with the grading and backfilling operations.
- The grading contractor shall perform a complete grading and compaction operation as shown on the plans, stated in these notes, or reasonably implied therefrom, all in accordance with the plans and notes as interpreted by the Geotechnical Engineer.
- The Contractor shall notify the Soils Engineer at least two days in advance of the start of the grading operation.
- All areas shall be allowed to drain. All low points shall be provided with temporary ditches.
- A sediment control plan that includes monitored and maintained sediment control basins and/or straw bales should be implemented as soon as possible. No graded area is to be allowed to remain bare without being seeded and mulched. Care should be exercised to prevent soil from damaging adjacent property and silting up existing downstream storm drainage system.
- Debris and foundation material from any existing on-site building or structure which is scheduled to be razed for this development must be disposed of off-site.
- All trash and debris on site, either existing or from construction, must be removed and properly disposed of off-site.
- Soft soil in the bottom and banks of any existing or former pond sites or tributaries or on any sediment basins or traps should be removed, spread out and permitted to dry sufficiently to be used as fill. None of this material should be placed in proposed public right-of-way locations or on any storm sewer locations.
- Site preparation includes the clearance of all stumps, trees, bushes, shrubs, and weeds; the grubbing and removal of roots and other surface obstructions from the site; and the demolition and removal of any man-made structures. The material shall be properly disposed of off-site. Topsoil and grass in the fill areas shall be thoroughly diced prior to the placement of any fill. The Soils Engineer shall approve the dicing operation.
- Compaction equipment shall consist of tamping rollers, pneumatic-tired rollers, vibratory roller, or high speed impact type drum rollers acceptable to the Soils Engineer. The roller shall be designed so as to avoid the creation of a layered fill without proper blending of successive fill layers.
- The Soils Engineer shall observe and test the placement of the fill to verify that specifications are met. A series of fill density tests will be determined on each lift of fill. Interim reports showing fill quality will be made to the Owner at regular intervals.
- The Soils Engineer shall notify the Contractor of rejection of a lift of fill or portion thereof. The Contractor shall rework the rejected portion of fill and obtain notification from the Soils Engineer of its acceptance prior to the placement of additional fill.
- All areas to receive fill shall be scarified to a depth of not less than 6 inches and then compacted in accordance with the specifications given below. Natural slopes steeper than 1 vertical to 5 horizontal to receive fill shall have horizontal benches, cut into the slopes before the placement of any fill. The width and height to be determined by the Soils Engineer. The fill shall be loosely placed in horizontal layers not exceeding 8 inches in thickness and compacted in accordance with the specifications given below. The Soils Engineer shall be responsible for determining the acceptability of soils placed. Any unacceptable soils placed shall be removed at the Contractor's expense.
- The sequence of operation in the fill areas will be fill, compact, verify acceptable soil density, and repetition of the sequence. The acceptable moisture contents during the filling operation are those at which satisfactory dry densities can be obtained. The acceptable moisture contents during the filling operation in the remaining areas are from 2 to 8 percent above the optimum moisture control.
- The surface of the fill shall be finished so that it will not impound water. If at the end of a days work it would appear that there may be rain prior to the next working day, the surface shall be finished smooth. If the surface has been finished smooth for any reason, it shall be scarified before proceeding with the placement of succeeding lifts. Fill shall not be placed on frozen ground, nor shall filling operations continue when the temperature is such as to permit the layer under placement to freeze.

CATEGORY	MINIMUM PERCENT COMPACTION
Fill in building areas below footings	90%
Fill under slabs, walks, and pavement	90%
Fill other than building areas	88%
Natural subgrade	88%
Pavement subgrade	90%
Pavement base course	90%

Measured as a percent of the maximum dry density as determined by modified Proctor Test (ASTM-D-1557).

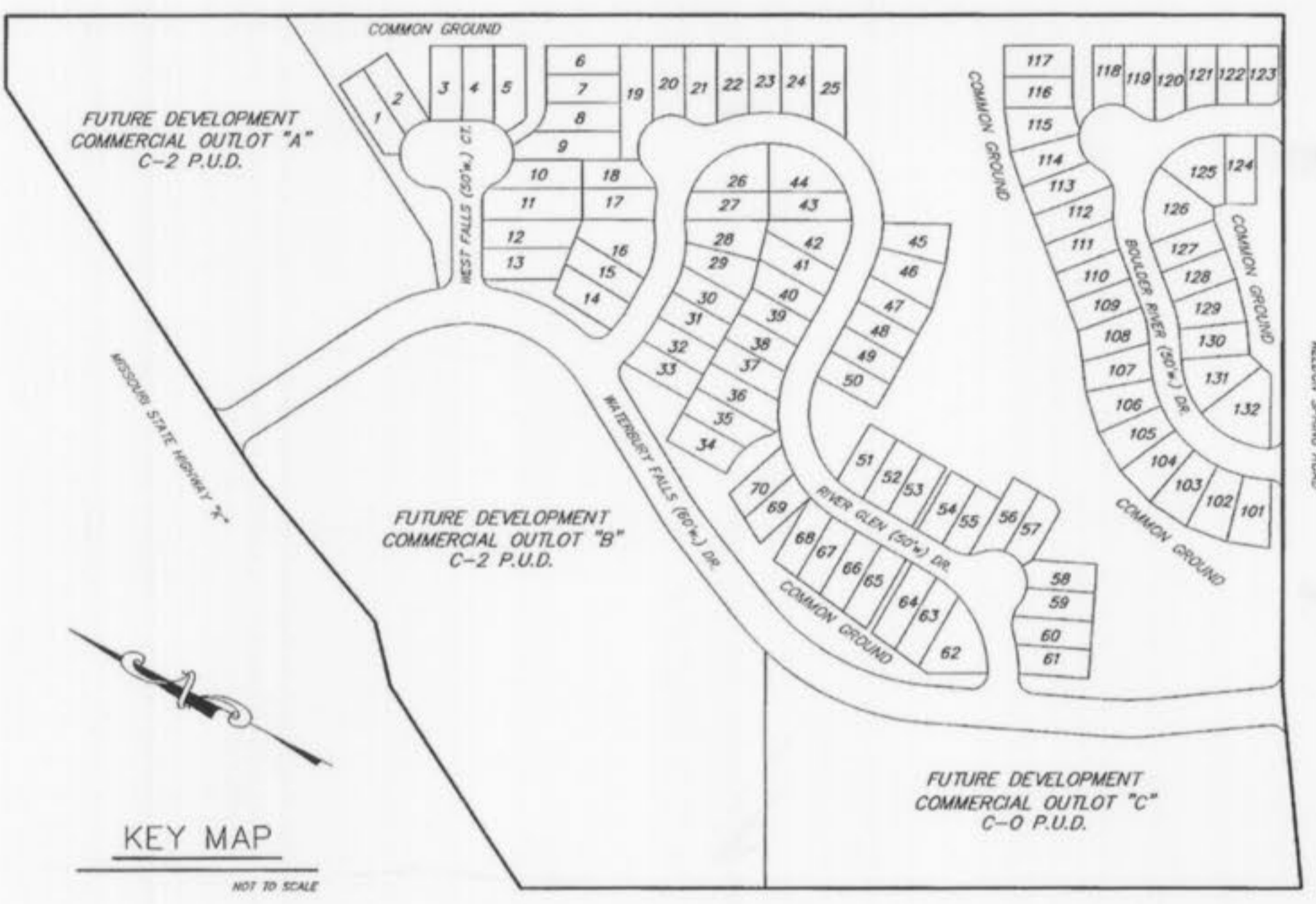
Moisture content must be within 2 percent below or 4 percent above optimum moisture content if fill is deeper than 10 feet.

GENERAL NOTES

- Underground utilities have been plotted from available information and therefore their locations shall be considered approximate only. The verification of the location of all underground utilities, either shown or not shown on these plans shall be the responsibility of the contractor, and shall be located prior to any grading or construction of the improvements.
- All manhole tops built without elevations furnished by the Engineer will be the responsibility of the sewer contractor.
- 8" P.V.C. sanitary sewer pipe shall meet the following standards. A.S.T.M.-D-3034 SDR-35, with wall thickness compression joint A.S.T.M.-D-3212. An appropriate rubber seal waterstop as approved by the sewer district shall be installed between P.V.C. pipe and masonry structures.
- All filled places, including trench backfills, under buildings, proposed storm and sanitary sewer lines and/or paved areas, shall be compacted to 90% maximum density as determined by the "Modified AASHTO T-190 Compaction Test," (A.S.T.M.-D-1557). All filled places within public roadways shall be compacted to 95% of maximum density as determined by the "Standard Proctor Test AASHTO T-99, Method C" (A.S.T.M.-D-698).
- All trench backfills under paved areas shall be granular backfill, and shall be compacted to 90% of the maximum density as determined by the "Modified AASHTO T-190 Compaction Test," (A.S.T.M.-D-1557). All other trench backfills may be earth material (free of large clods or stones). All trench backfills shall be water jetted.
- All sanitary house connections have been designed so that the minimum vertical distance from the low point of the basement to the flow line of a sanitary sewer at the corresponding house connection is not less than the diameter of the pipe plus the vertical distance of 2 1/2 feet.
- No area shall be cleared without the permission of the Project Engineer.
- All P.V.C. sanitary sewer is to be SDR-35 or equal with clean 1/2" to 1" granular stone bedding uniformly graded. This bedding shall extend from 4" below the pipe to the springline of the pipe. Immediate backfill over pipe shall consist of same size "clean" or minus stone from springline of pipe to 6" above the top of pipe.
- All soils test shall be verified by a Soils Engineer concurrent with the grading and backfilling operations.
- Easements shall be provided for sanitary sewers, and all utilities on the Record Plat. See Record Plat for location and size of easements.
- Maintenance and upkeep of the common ground area shall be the responsibility of the developer and/or successors.
- A 20' building line shall be established along all Public Rights-Of-Way except along Waterbury Falls Drive and along all commercial areas.
- All water lines shall be laid at least 10 feet horizontally, from any sanitary sewer, storm sewer, or manhole. 18" vertical clearance from outside of pipe to outside of pipe shall be maintained wherever water lines must cross sanitary sewers, laterals, or storm drains. The water line shall be laid at such an elevation that the bottom of the water line is above the top of the drain or sewer. A full length of water pipe shall be centered over the sewer line to be crossed so that the joints will be equally distant from the sewer and as remote therefrom as possible. This vertical separation shall be maintained for that portion of the water line located within 10 feet horizontally, of any sewer or drain it crosses.
- All PVC water pipe shall conform to A.S.T.M.-D-2241, SDR 21 Standard Specification for P.V.C. Pressure Pipe, 200 P.S.I. working pressure for water, with approved joint.
- Water lines, valves, sleeves, meters, and fittings shall meet all specifications and installation requirements of Public Water Supply District No. 2 of St. Charles County.
- All water hydrants and valves shall be ductile iron and installed in accordance with plans and details. All ductile iron pipe for water mains shall conform to A.W.W.A. Specifications C-106 and/or C-108. The ductile iron fittings shall conform to A.W.W.A. Specification CC-110. All rubber gasket joints for water ductile iron pressure pipe and fittings shall conform to A.W.W.A. Specification C-111.
- All sanitary manholes shall be waterproofed on the exterior in accordance with Missouri Department of Natural Resources specifications 10 CSR-5.120 (7E).
- Brick will not be used in the construction of sanitary sewer manholes.
- All pipes shall have positive drainage through manholes. No flat base structures are allowed.
- The City of O'Fallon and Duckett Creek Sanitary District for sanitary sewers shall be notified 48 hours prior to construction for coordination and inspection.
- Gas, water and other underground utilities shall not conflict with the depth or horizontal location of existing or proposed sanitary or storm sewers, including house laterals.
- All existing site improvements disturbed, damaged or destroyed shall be repaired or replaced to closely match pre-construction conditions.
- The contractor shall prevent all storm, surface water, mud and construction debris from entering the existing sanitary sewer system.
- All construction and materials shall conform to the current construction standards of the City of O'Fallon and Duckett Creek Sanitary District for sanitary sewers.
- All sanitary and storm sewer trench backfills shall be water jetted. Granular backfill will be used under pavement areas.
- All existing areas disturbed during construction of the off-site sanitary sewer line shall be seeded and mulched to prevent erosion.
- All sanitary sewer laterals shall be a minimum of 4" in diameter per City of O'Fallon.
- No flushing hydrants or water meters shall be located in driveways and/or walkways.

A SET OF AS-BUILT PLANS FOR WATERBURY

A TRACT OF LAND BEING PART OF LOTS 15 AND 16 OF "JOHN D. COALTERS HOWELL PRAIRIE TRACT" IN U.S. SURVEY 1669, TOWNSHIP 46 NORTH, RANGE 3 EAST CITY OF O'FALLON, ST. CHARLES COUNTY, MISSOURI



- Concrete pipe for storm sewers shall be Class III, A.S.T.M. C-76 with a minimum diameter of 12" except in the R.O.W. it shall be 15".
- The ADS N-12 pipe shall have a smooth interior wall.
- Concrete pipe joints shall be MSD type "A" approved compression-type joints and shall conform to the requirements of the specifications for joints for circular concrete sewer and culvert pipe, using flexible, watertight, rubber-type gaskets (A.S.T.M.-C-443). Band-type gaskets depending entirely on cement for adhesion and resistance to displacement during jointing shall not be used.
- When HDPE pipe is used, City of O'Fallon specifications or manufacturers specifications, which ever are more stringent, shall be followed.
- The use of High Density Polyethylene Corrugated pipe, ADS N-12 or equal will be permitted as an acceptable alternative to reinforced concrete pipe, ADS N-12 HC shall be used for all ADS pipe greater than 36". Pipe shall meet A.S.T.M.-D-2321 and A.A.S.H.T.O. M-294-291.
- All flared end sections and inlet structures will be concrete.
- All storm sewer pipe installed in the Public Right-of-Way shall be Reinforced concrete Class III pipe.
- All concrete pipe or ADS N-12 pipe shall be installed with "O-Ring" Rubber type gaskets per M.S.D. standard construction specifications or manufacturer.
- Existing sanitary sewer service shall not be interrupted.
- Maintain access to existing residential driveways and streets.
- Pre-manufactured adapters shall be used at all PVC to DIP connections. Rubber boot / Mission-type couplings will not be allowed.

SITE BENCHMARK

RM58 - ELEV. 487.55
Chiseled square on northwest wingwall of County Highway K bridge over Dardenne Creek.

LEGEND

- CL CURB INLET
- D.C.I. DOUBLE CURB INLET
- A.I. AREA INLET
- M.H. MANHOLE
- F.L. FLARED END SECTION
- E.P. END PIPE
- C.P. CONCRETE PIPE
- R.C.P. REINFORCED CONCRETE PIPE
- C.M.P. CORRUGATED METAL PIPE
- C.I.P. CAST IRON PIPE
- P.V.C. POLY VINYL CHLORIDE (PLASTIC)
- C.O. CLEAN OUT
- ★ FIRE HYDRANT
- SANITARY SEWER
- SANITARY SEWER
- STREET LIGHT
- - - - - EXISTING CONTOUR
- - - - - PROPOSED CONTOUR
- S x S STREET SIGN
- NO PARKING SIGN
- WV WATER VALVE
- R.O.W. ELOW OFF ASSEMBLY
- FLORING ELEVATION OF HOUSE CONNECTION
- FLORING ELEVATION OF SEWER MAIN

THIS IS TO CERTIFY THAT WE HAVE DURING THE MONTH OF JANUARY, 2001, BY ORDER OF TAYLOR MORLEY HOMES, EXECUTED AN AS-BUILT SURVEY OF EXISTING SANITARY SEWERS, STORM SEWERS, FIRE HYDRANTS AND WATER VALVES WITHIN "WATERBURY", A SUBDIVISION ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK _____ PAGE _____ OF THE ST. CHARLES COUNTY RECORDS. THE SANITARY LATERALS THAT ARE SHOWN WERE TAKEN FROM INFORMATION SUPPLIED TO BAX ENGINEERING BY THE SEWER CONTRACTOR, THEREFORE THEIR LOCATION IS ASSUMED APPROXIMATE. ALL SEWERS SHOWN LIE WITHIN THE EASEMENTS AS SHOWN ON SAID RECORDED SUBDIVISION PLAT UNLESS OTHERWISE NOTED. THE RESULTS OF THIS AS-BUILT SURVEY ARE SHOWN ON THIS PLAT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

WILLIAM S. KANKOLENSKI
BAX ENGINEERING CO., INC.
MO. PRO. L.S. #2197



DEVELOPMENT NOTES

- Area of Tract: 54.85 acres
- Proposed Zoning: R-2 P.U.D. - Residential
C-0 P.U.D. - Commercial
C-2 P.U.D. - Commercial
- Proposed Use: Multi-family dwellings
Commercial
- Residential Zoning: R-2 P.U.D. Area 30.62 acres
Number of Units 102
Units Allowed 267
Proposed Density 102 units
= 3.33 units/acre
- Proposed Height and Lot Setbacks: R-2 PUD Zoning
Front yard 20 feet
Side yard 5 feet
Rear yard 20 feet
Maximum Height 35 feet
- Parking Requirements: 2 spaces per unit (206 spaces)
- Parking Provided: 2 spaces per unit (206 spaces)
- Site is served by:
Ameren U. E.
Public Water Supply District No. 2 - Water
St. Charles Gas Company
Southwestern Bell Telephone
Duckett Creek Sanitary District
Cottleville Fire Protection District
Francis Howell School District
- Property Owner under Contract/Developer:
Taylor Morley Inc.
1224 Fern Ridge Parkway
St. Louis, Missouri 63141
(314) 434-9000
- Boundary information is per survey as compiled by Bax Engineering Co.
- Topographical information is by aerial topography by Walker & Associates.
- All public streets will be constructed to the City of O'Fallon standards.
Minor residential streets will consist of a 26 foot wide concrete pavement with integral rolled curb centered in a 50 foot right-of-way and having a minimum centerline radius of 150 feet, a design speed of 30 MPH (posted 25 MPH), and a minimum K value of 25. The minor collector road will consist of a 36 foot wide concrete pavement with vertical curbs centered in a 60 foot right-of-way and having a minimum centerline radius of 300 (unless super-elevated), a design speed of 30 MPH (posted 25 MPH), and a minimum K value of 25.
- Minimum street grades shall be 1%.
- No 100-yr floodplain exist on this tract per F.I.R.M. #29183CD430E.
Map revised date: August 2, 1996.
- All utilities must be located underground.
- All homes must have driveway access to interior subdivision streets.
- Street lighting shall conform to the city of O'Fallon standards.
- A sediment and erosion control plan will be submitted to the City of O'Fallon for their review and approval prior to construction.
- The developer shall comply with Article 26 of the O'Fallon Zoning Code.
- The developer shall comply with current Tree Preservation Ordinance Number 1689 and provide landscaping as set forth in Article 23 of the City of O'Fallon Zoning Code.
- Tree Preservation Calculations:
Trees Existing 11.57 acres
Trees Saved 3.70 acres
Trees Removed 7.87 acres
Trees Required: 11.57 ac - 3.70 ac = 7.87 acres
11.57 ac - 9.26 ac = 2.31 acres
3.70 ac > 2.31 ac (no additional trees required)
- All entrances onto highway "K" shall be designed and constructed to MoDOT standards and specifications.
- Individual site plans and applications shall be provided at the time of development of the commercial outlots.
- The existing creek (Crooked Creek) is subject to United States Corp of Engineers (COE) regulations.
- The commercial developments shall construct a multi-use trail along Highway K. Proposed trail will intersect the proposed collector road at the street light intersection at Highway K.
- The developer shall comply to the current requirements for screening and landscaping (bufferyards).
- Lots susceptible to street creep: 1, 2, 5, 10, 17, 18, 19, 20, 21, 22, 23, 24, 25, 28, 29, 30, 31, 32, 33, 36, 37, 38, 45, 56, 57, 58, 59, 60, 61, 67, 68, 69, 70, 71, 72, 73, 101, 102, 103, 104, 105, 106, 107, 111, 112, 114, 115, 118, 119, 120, 121, 128, 129.
- A cross access drive from commercial outlot "B" and/or "C" to the adjacent property to the south will be required during the commercial site plan submittal.
- Detention basins shown are intended to provide detention for the commercial lots. Additional detention on commercial lots may be required where actual engineering calculations are performed.
- The finished grading shall not exceed a 3:1 slope.
- Easements will be provided to adequately cover all proposed sewers and utilities as required by the governing authorities on the record plats.
- Developer shall be responsible for providing a two inch asphalt overlay for the entire width of Weldon Spring Road along the entire length of the subject property once construction of the Waterbury Square villas are 90% constructed and as approved by the Public Works Department.
- Driveways shall not interfere with the sidewalk handicap ramps.
- A pump shall be supplied to the home owners association as a means to drain the lakes.
- All streets intersecting with Waterbury Falls Drive shall have a 5' transition from vertical curb to rolled curb.
- Details of the pavilion and other lot-amenities will need to be submitted to the Building Division for a permit.
- All traffic signal posts, mast arms, sign backs, light posts, and bracket arms shall be painted black using Carboline Rustbond Penetrating Sealer SG and Carboline 133 HB Point (or equivalent as approved by the City).

WATERBURY
TAYLOR MORLEY HOMES
1224 FERN RIDGE PARKWAY
ST. LOUIS, MISSOURI 63141
(314) 434-9000

PREPARED FOR:

DISCLAIMER OF RESPONSIBILITY
I hereby certify that the documents intended to be authorized by my seal are correct to the best of my knowledge and belief, and I hereby disclaim any responsibility for all other drawings, specifications, calculations, reports or other documents or instruments relating to or intended to be used in any part or parts of the architect's or engineering project or survey.

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REVISIONS	CITY & DCSD
04-17-00	CITY & DCSD
05-30-00	CITY COMMENTS
06-27-00	CITY COMMENTS



1052 South Cloverleaf Drive
St. Peters, MO. 63378-6445
314-928-5552
FAX 928-1718

Jan 08, 2001
DATE
98-9713c
PROJECT NUMBER
1 of 9
SHEET OF
9713C-asbuilt
FILE NAME
TLT WSK
DRAWN CHECKED

Underground utilities have been plotted from available information and therefore their locations shall be considered approximate only. The verification of the location of all underground utilities, either shown or not shown on these plans shall be the responsibility of the contractor, and shall be located prior to any grading or construction of the improvements.

Revised 04-17-00 City & DCSD Comments
 Revised 05-01-00 PWSDF2 Comments
 Revised 05-30-00 City Comments
 Revised 06-27-00 City Comments

SITE PLAN
WATERBURY
 FEBRUARY 28, 2000 98-9713C



PROPERTY INT.
 WALMAR INVESTMENT CO.
 BK 1580 PG 1244
 CITY OF OFFALLOM - C-3 HIGHWAY COMMERCIAL

N 27°25'29" W

GRAPHIC SCALE
 (IN FEET)
 1 inch = 50 ft.

SEE SHEET 3

AS-BUILT ADDED JANUARY 2001

2
 9

MONTICELLO MANOR
 PLS# P65287-281
 CITY OF OFFALLOM - R-1 RESIDENTIAL



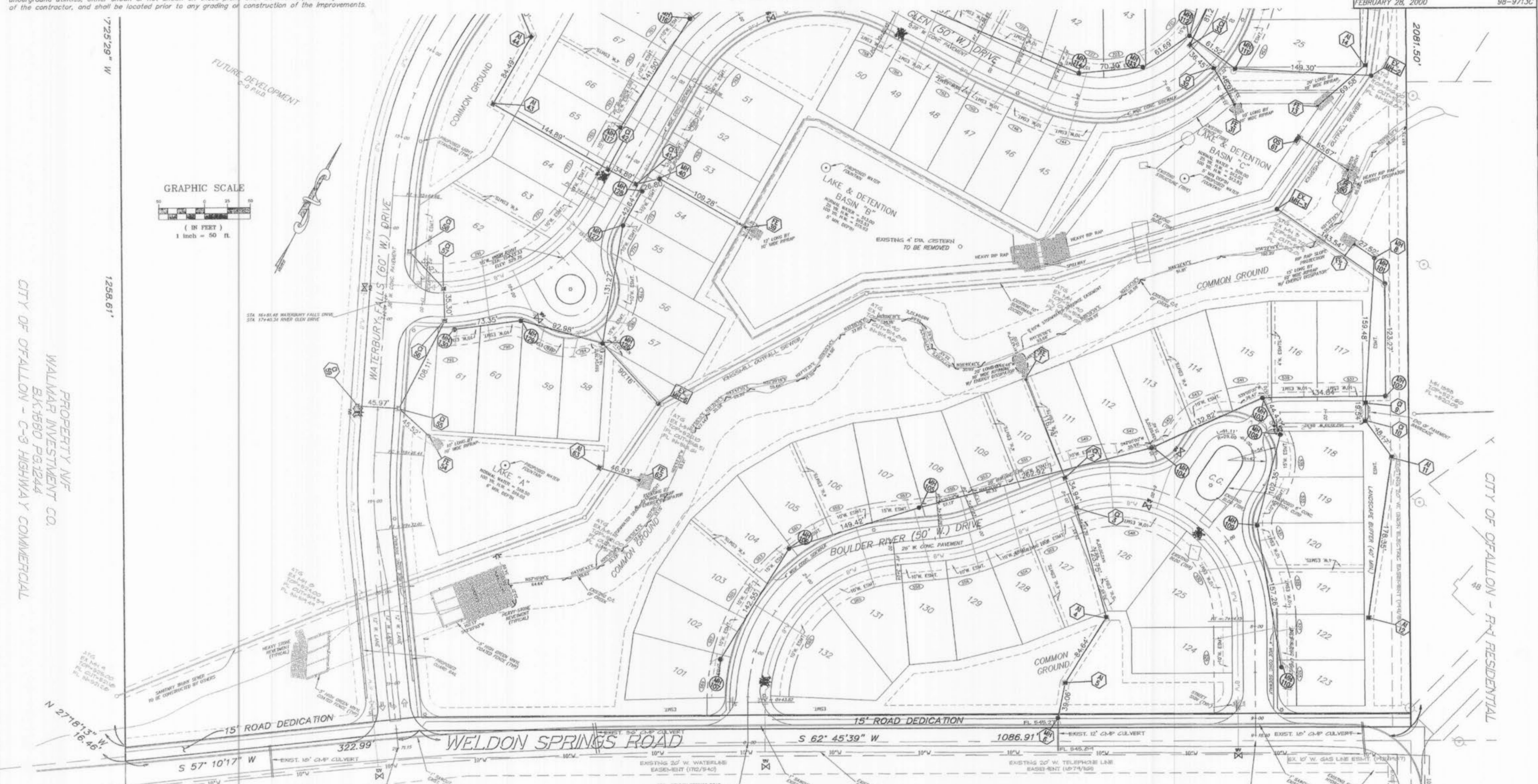
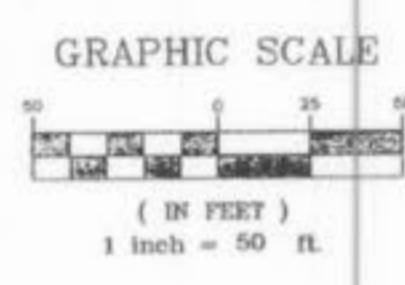
Waterbury App 2/16/01 Asbuilt

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SEE SHEET 2

Revised 04-17-00 City & DCSD Comments
 Revised 05-01-00 PWS#2 Comments
 Revised 05-30-00 City Comments
 Revised 06-27-00 City Comments

SITE PLAN
WATERBURY
 FEBRUARY 28, 2000 98-9713C



PROPERTY N/F
 WALMAR INVESTMENT CO.
 BK.1580 PG.1244
 CITY OF OFFALLO - C-3 HIGHWAY COMMERCIAL

CITY OF OFFALLO - R-1 RESIDENTIAL

PROPERTY N/F
 LOUISE R. GOLDBERG AND
 THOMAS W. GOLDBERG, TRUSTEES
 P.B.1595 PG.010
 CITY OF OFFALLO - UNZONED

THE DEVELOPER SHALL BE RESPONSIBLE FOR PROVIDING A 100' WIDE TYPE 1 ASPHALT OVERLAY FOR THE ENTIRE WIDTH OF WELDON SPRING ROAD ALONG THE ENTIRE LENGTH OF THE SUBJECT PROPERTY PRIOR TO CONSTRUCTION OF THE WATERBURY SQUARE TELLAS ARE NOT CONSTRUCTED AND AS APPROVED BY THE PUBLIC WORKS DEPARTMENT.

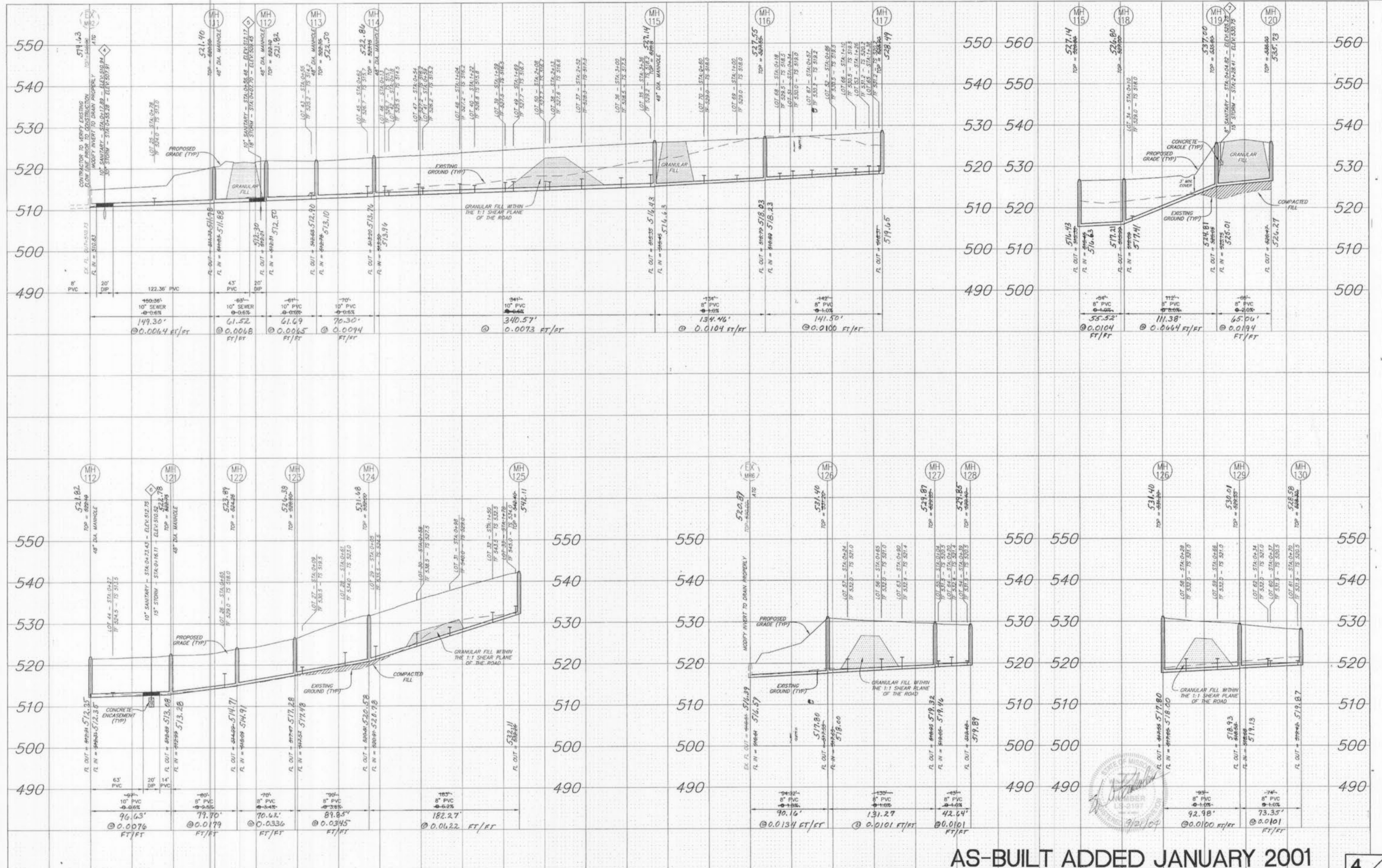


AS-BUILT ADDED JANUARY 2001

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Waterbury 2/6/01 Asbuilt

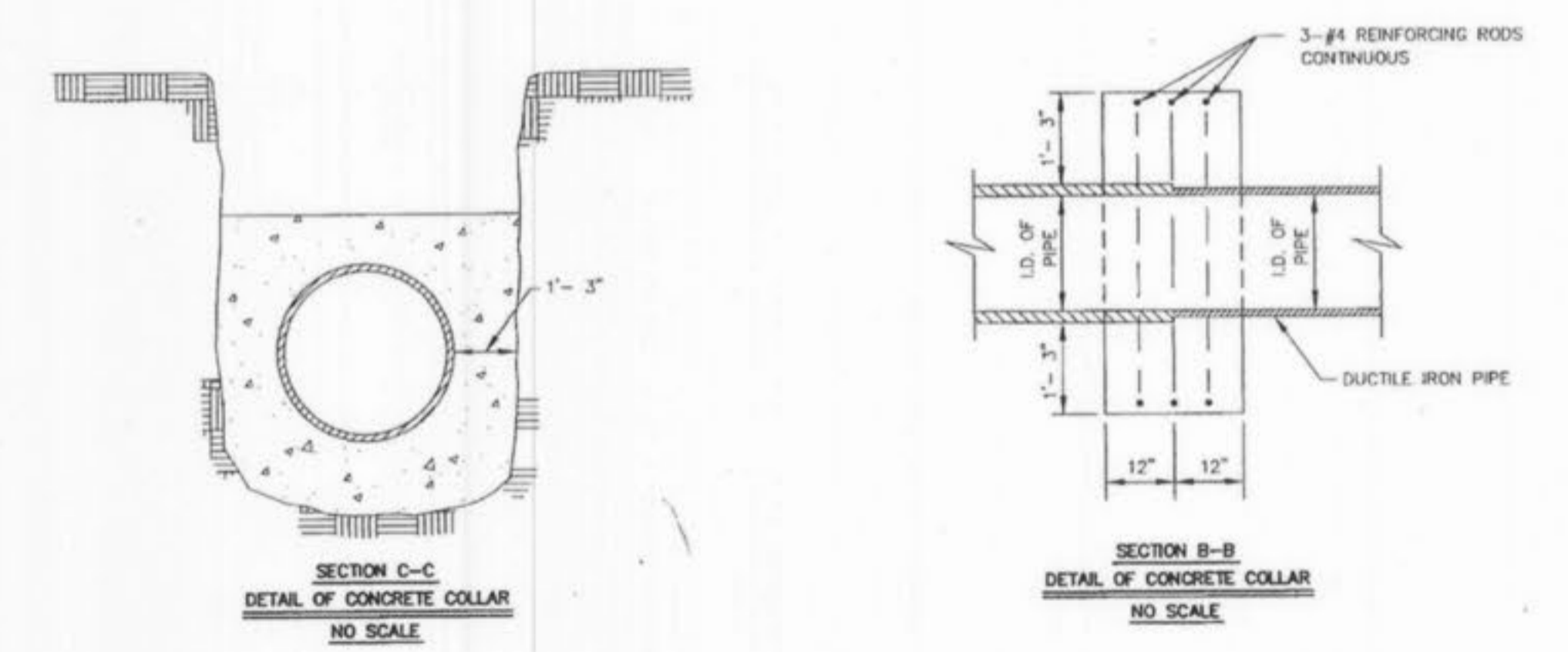
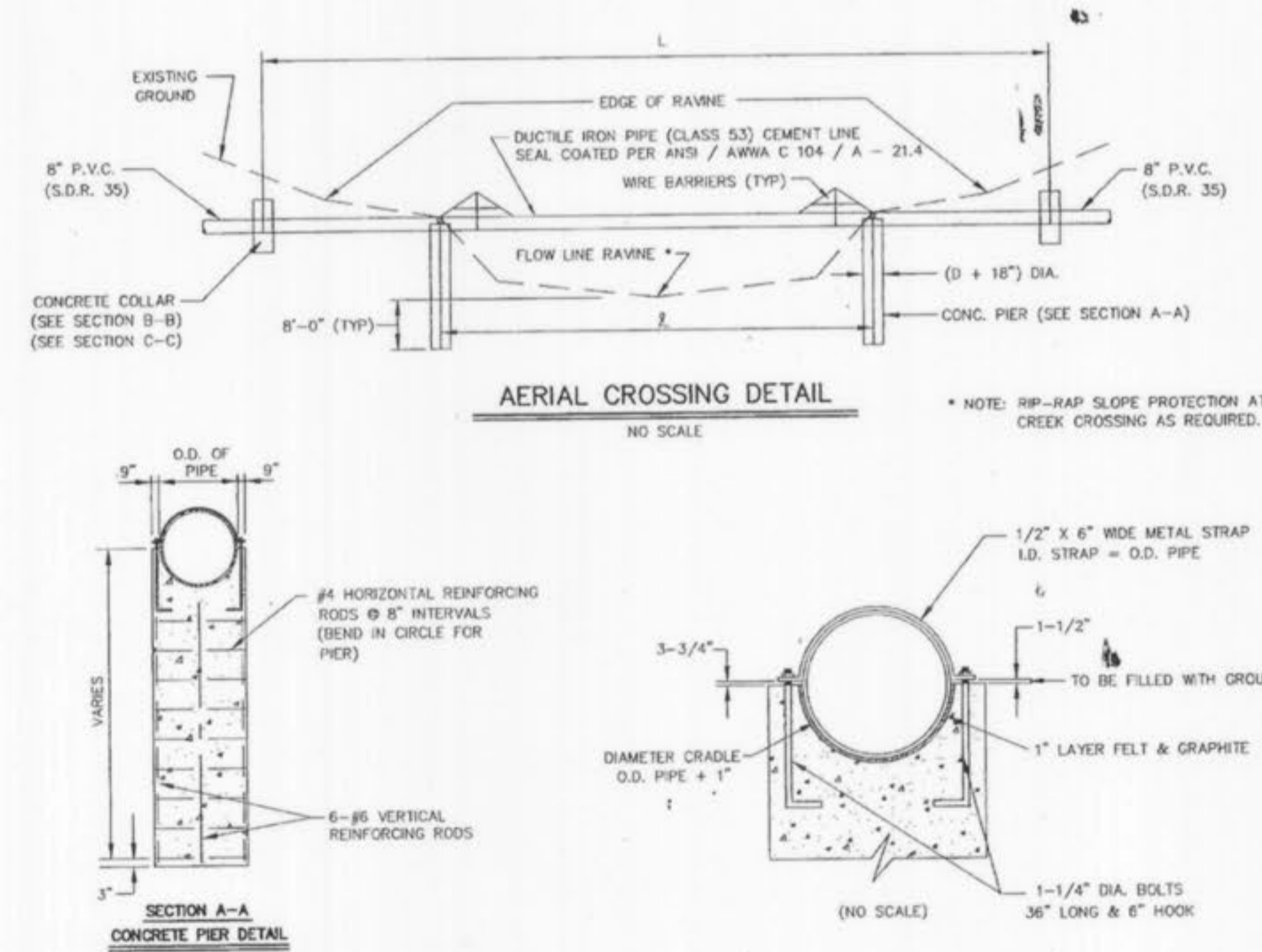
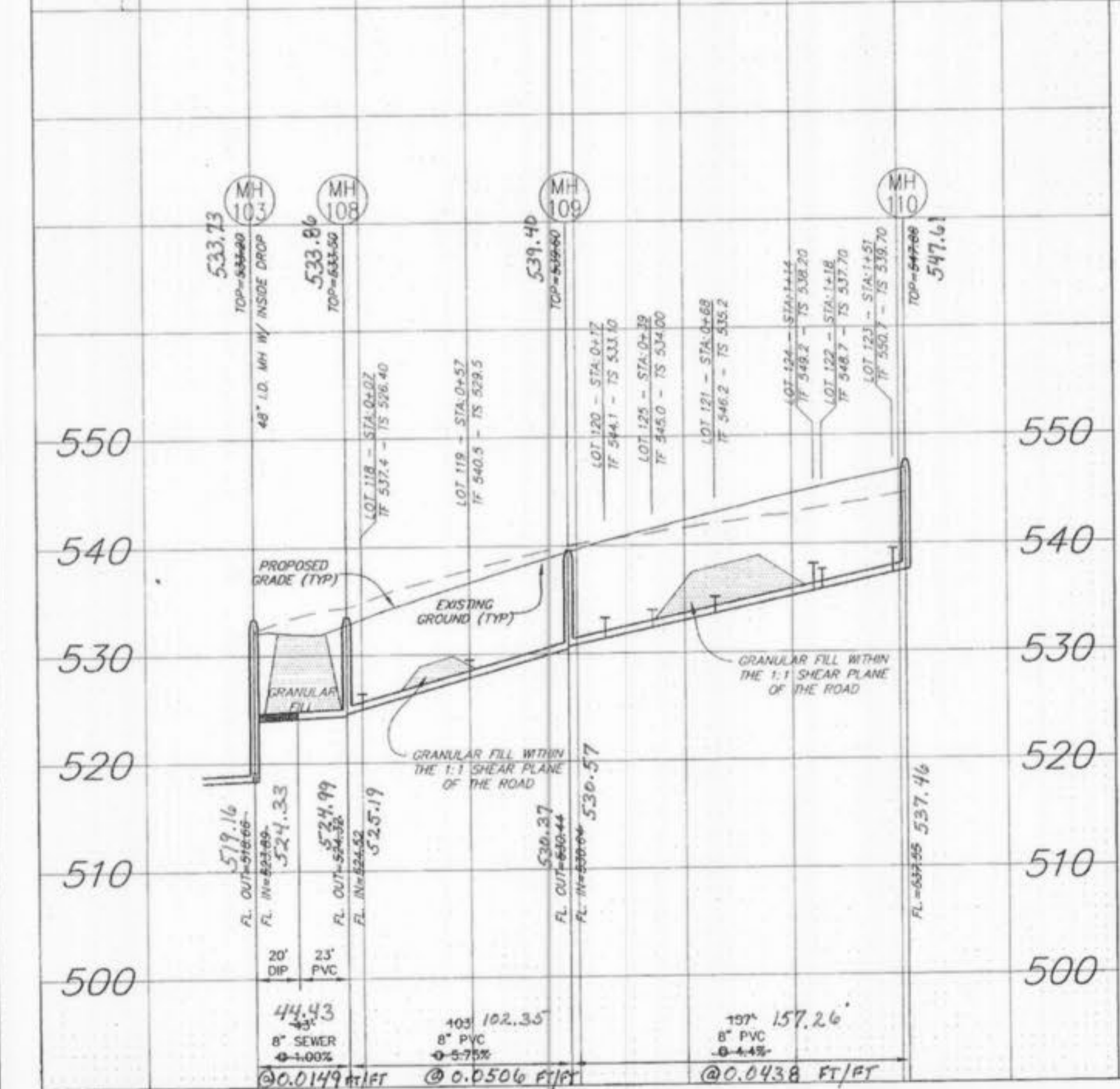
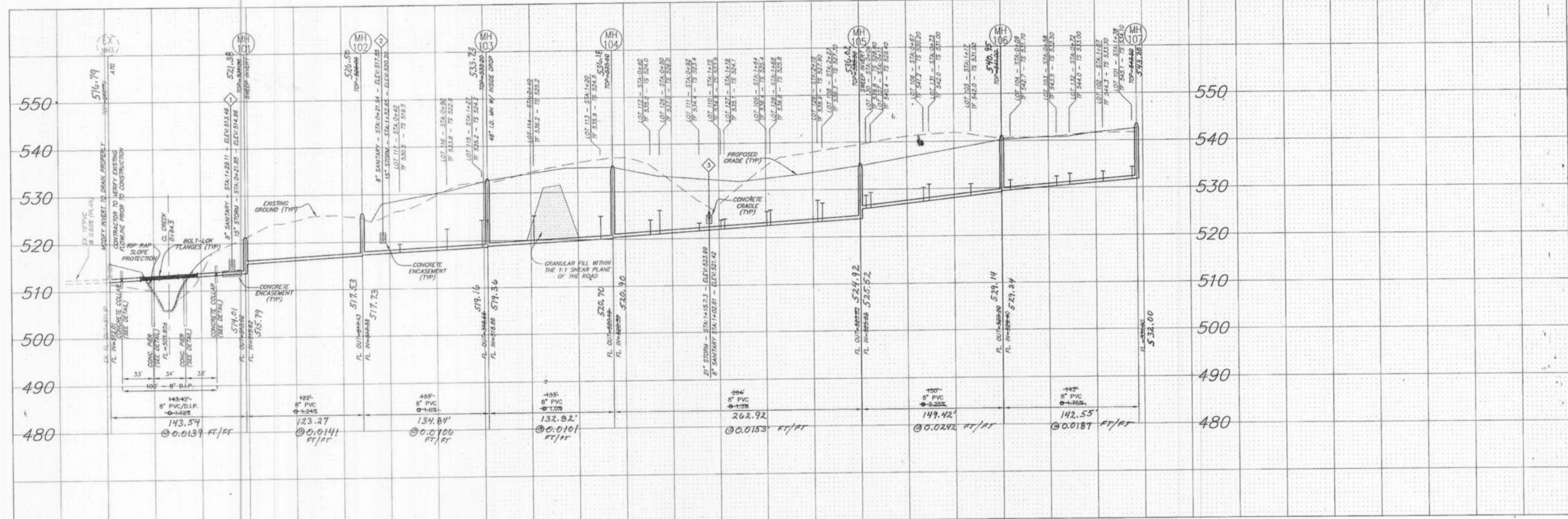
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AS-BUILT ADDED JANUARY 2001

NOTE:
 All sanitary sewer lateral tailstack elevations have been designed for 9.0' basements in homes.
 SCALE:
 VERTICAL = 1:10
 HORIZONTAL = 1:10

Underground utilities have been plotted from available information and therefore their locations shall be considered approximate only. The verification of the location of all underground utilities, either shown or not shown on these plans shall be the responsibility of the contractor, and shall be located prior to any grading or construction of the improvements.



CROSSING NO.	L LENGTH BETWEEN CONC. PIERS (FT.)	S LENGTH BETWEEN CONC. PIERS (FT.)	D CARRIER PIPE OUTSIDE DIAMETER (IN)	X CARRIER PIPE WALL THICKNESS (IN)
1	100	34	9.05	0.36

- GENERAL NOTES:
- IF ROCK IS ENCOUNTERED SET CONCRETE PIER 24" INTO ROCK.
 - ALL SPLICES IN REINFORCING STEEL SHALL BE 30 BARS DIAMETER.
 - MINIMUM COVER OVER PRIMARY REINFORCING TO BE 2".
 - ULTIMATE COMPRESSIVE STRESS IN CONCRETE (28 DAYS) = 3,000 P.S.I.
 - ULTIMATE TENSILE STRESS IN REINFORCING STEEL = 18,000 P.S.I.

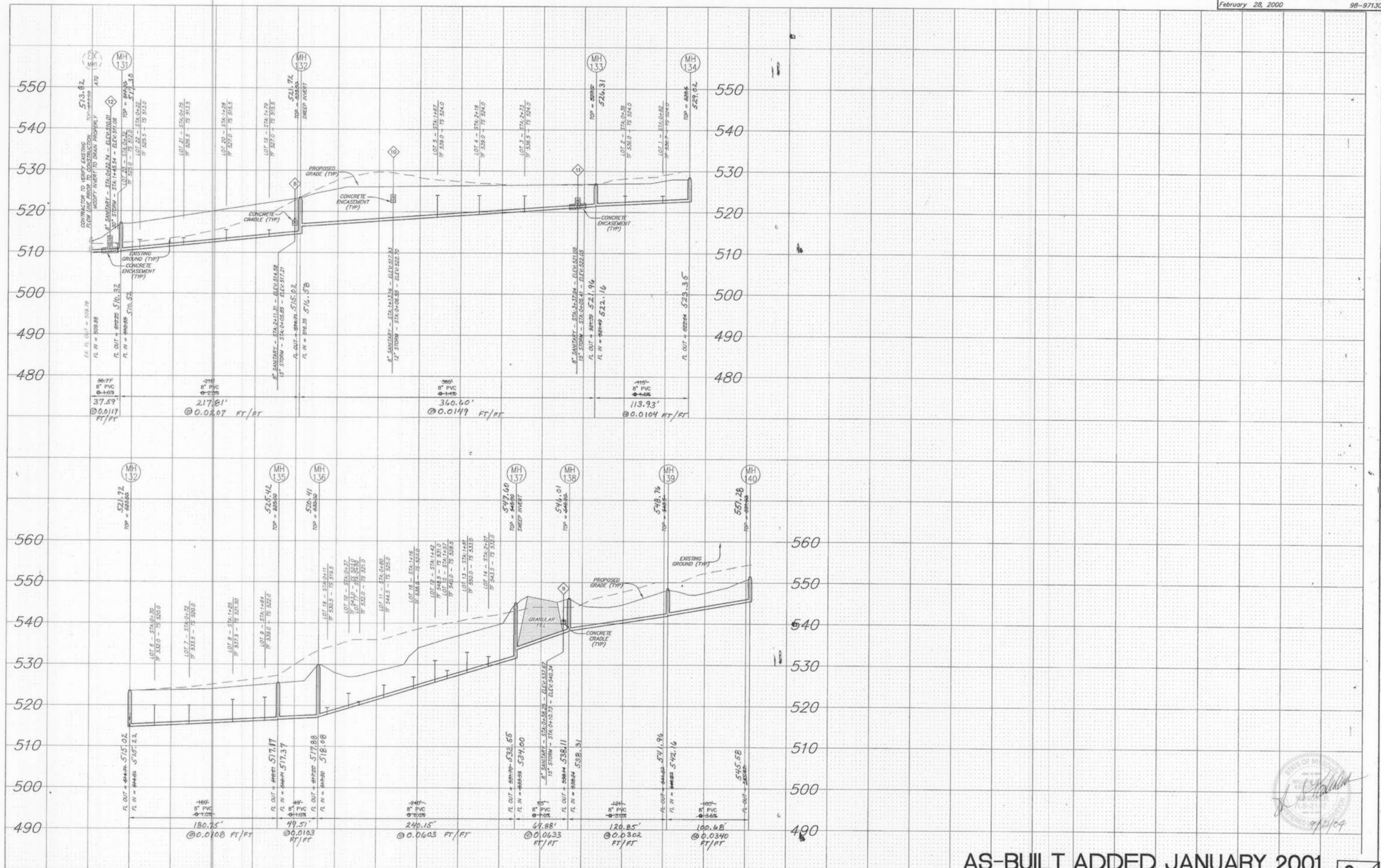
AS-BUILT ADDED JANUARY 2001

NOTE:
 All sanitary sewer lateral tailstake elevations have been designed for 9.0' basements in homes.

SCALE:
 VERTICAL = 1:10
 HORIZONTAL = 1:3

5
 9

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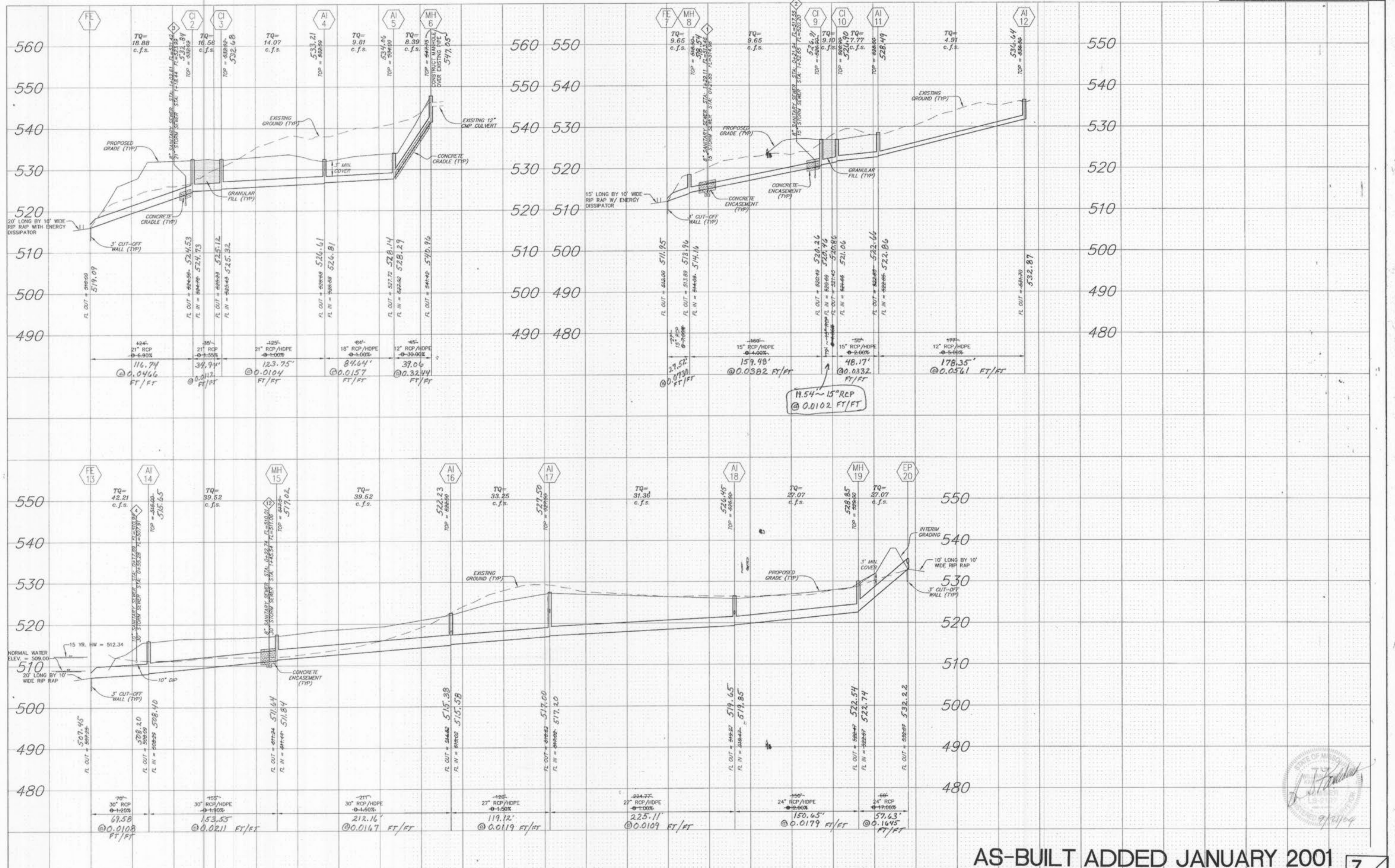
AS-BUILT ADDED JANUARY 2001

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NOTE:
 All sanitary sewer lateral takeoff elevations have been designed for 9.0' basements in homes.

SCALE:
 VERTICAL = 1:10
 HORIZONTAL = 1:50

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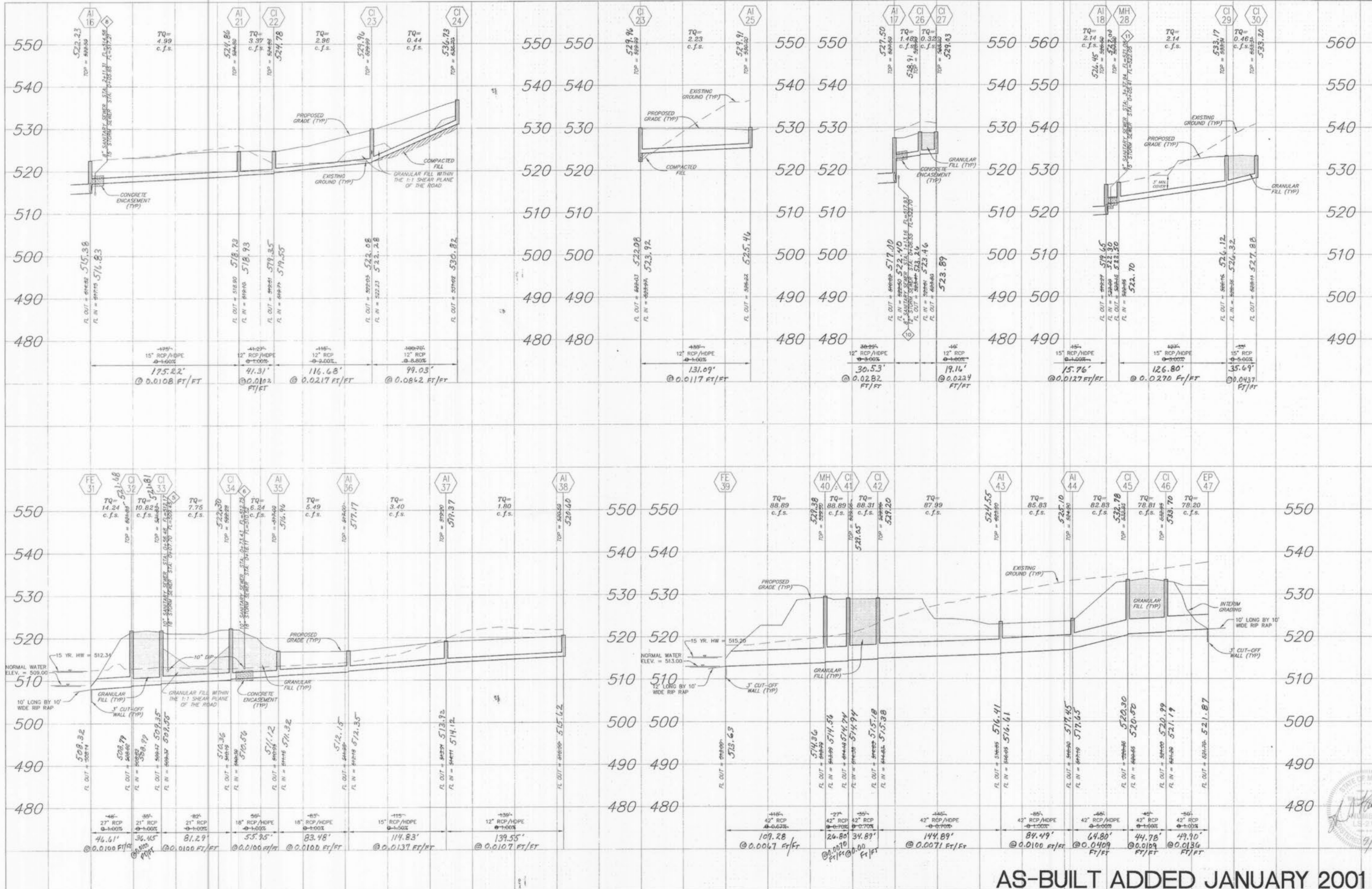
AS-BUILT ADDED JANUARY 2001

NOTES:
 IF CONTRACTOR/DEVELOPER USES ALTERNATIVE HDPE PIPE,
 ALL SEWER CROSSINGS SHALL BE CONCRETE ENCASED.
 ALL FLARED END SECTIONS AND INLET STRUCTURES WILL BE CONCRETE.

SCALE:
 VERTICAL = 1:10
 HORIZONTAL = 1:100

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AS-BUILT ADDED JANUARY 2001

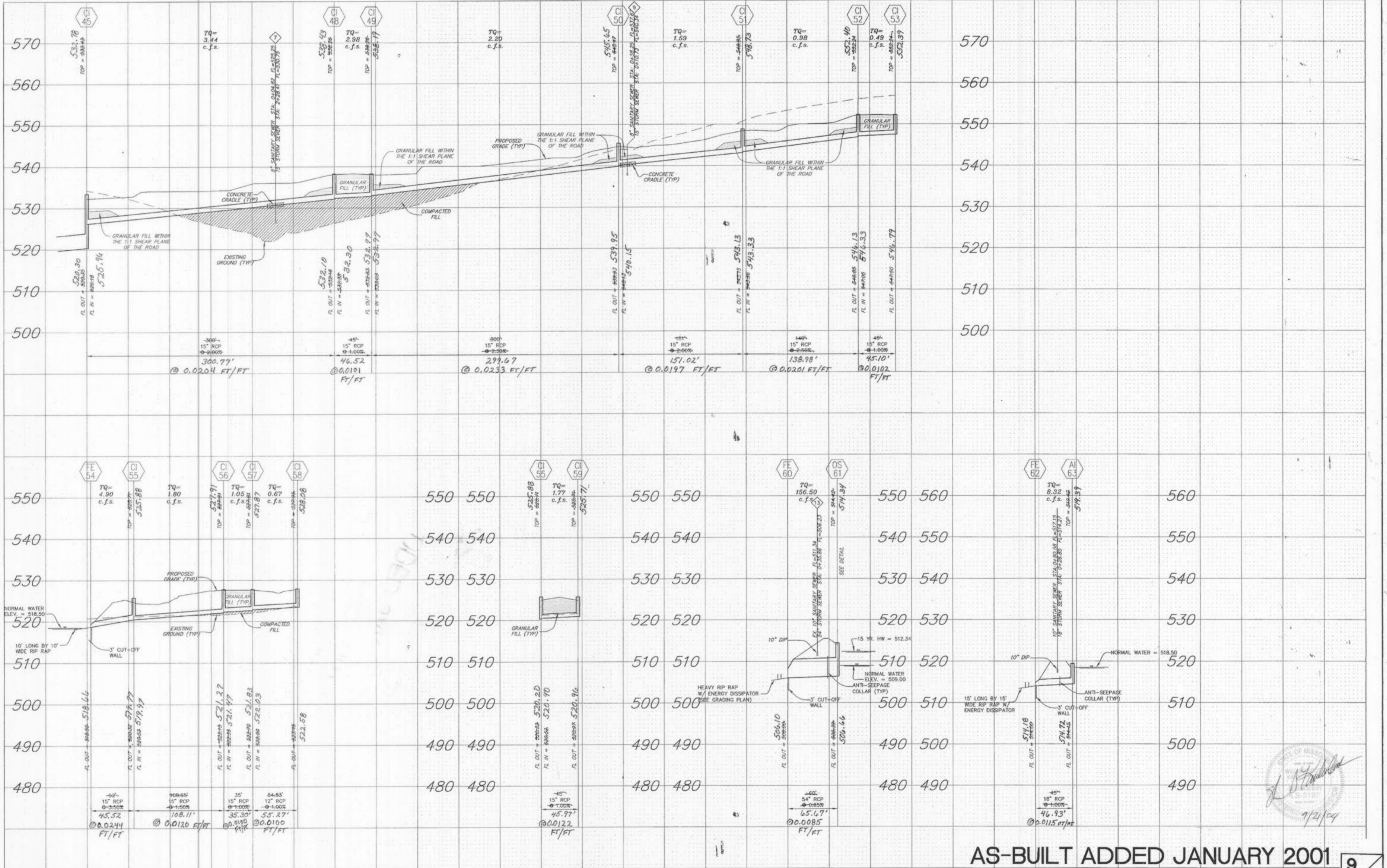
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NOTES:
 IF CONTRACTOR/DEVELOPER USES ALTERNATIVE HDPE PIPE, ALL SEWER CROSSINGS SHALL BE CONCRETE ENCASED.
 ALL FLARED END SECTIONS AND INLET STRUCTURES WILL BE CONCRETE.

SCALE:
 VERTICAL = 1:10
 HORIZONTAL = 1:1

8
 9





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NOTES:
 IF CONTRACTOR/DEVELOPER USES ALTERNATIVE HOPE PIPE, ALL SEWER CROSSINGS SHALL BE CONCRETE ENCASED.
 ALL FLARED END SECTIONS AND INLET STRUCTURES WILL BE CONCRETE.

SCALE:
 VERTICAL = 1:10
 HORIZONTAL = 1:50

AS-BUILT ADDED JANUARY 2001



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Waterbury App 2/10/01
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