

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 and inlet tops built without elevations furnished by the Engineer will be the responsibility of the Sewer Contractor.
- All standard curb inlets to have front of inlet 2' (foot) behind curb.
- Storm sewers 18" diameter and smaller shall be A.S.T.M. C-14 unless otherwise shown on the plans.
- Storm sewers 21" diameter and larger shall be A.S.T.M. C-76, Class II minimum, unless otherwise shown on the plans.
- All storm pipe in the right-of-way shall be reinforced concrete pipe (A.S.T.M. C-76 Class III minimum).
- 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-180 Compaction Test," (A.S.T.M.-D-1557). All filled places within public roadways shall be compacted to 95% of maximum density as determined by the "Standard Proctor Test AASHTO T-99, Method C" (A.S.T.M. D-698).
- All trench backfills within the public right-of-way shall be granular backfill. Granular backfill shall be water jetted to attain proper compaction. Trench backfills under paved areas, outside of public right-of-way may be granular backfill in lieu of the earth backfill compacted to 90% of the Modified AASHTO Compaction Test.
- No area shall be cleared without the permission of the Project Engineer.
- All grades shall be within 0.2 feet of those shown on the grading plan.
- No slope shall be steeper than 3:1. All slopes shall be sodded or seeded and mulched.
- All construction and materials used shall conform to current City of O'Fallon Standards.
- All P.V.C. sanitary pipe to have crushed stone bedding uniformly graded between 1" and 1/4" size. This bedding shall extend from 6" below the pipe to 18" of crushed stone bedding above top of pipe.
- All soils tests shall be verified by a Soils Engineer concurrent with the grading and backfilling operations.
- A 25' building line shall be established along all public rights-of-way.
- 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.
- All water lines shall be laid at least 10 feet horizontally, from any sanitary sewer, storm sewer, or manhole. Whenever 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 18 inches 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 P.V.C. water pipe shall have a minimum pressure rating of PR-200 or SDR-21.
- Water lines, valves, sleeves, meters and etc. shall meet all specifications and installation requirements of the local governing authority.
- All ductile iron pipe for water mains shall conform to A.W.W.A. Specifications C-106 and/or C-108. The ductile iron fitting shall conform to A.W.W.A. Specification C-110. All rubber gasket joints for water ductile iron pressure pipe and fittings shall conform to A.W.W.A. Specification C-111.
- All water hydrants and valves shall be ductile iron and installed in accordance with plans and details.
- Hazard markers will consist of four (4) standard specifications, "Manual on Uniform Traffic Control Devices", and of roadway markers mounted on two (2) pound "M" channel sign post. Each marker shall consist of an eighteen (18) inch diamond reflectorized red panel. The bottom of each panel shall be mounted a minimum of four (4) feet above the elevation of the pavement surface.
- The minimum vertical distance from the low point of the basement to the flowline of a sanitary sewer at the corresponding house connections shall not be less than the diameter of the sanitary sewer plus a vertical distance of not less than 2 1/2 feet.
- The City of O'Fallon shall be notified 48 hours prior to start of construction of sanitary sewers for coordination and inspection.
- Siltation control devices shall be as shown on plans, and approved by the local governing authority. Additional siltation control, if required, will be placed at the direction of the soils engineer on-site and the local governing authority prior to placement.
- All grading on City right-of-way shall be seeded and mulched and all disturbed right-of-way markers shall be reset at the completion of grading.
- Brick will not be used in the construction of sanitary sewer manholes and all sanitary sewer manholes shall have 3" and thick coat of coat for pitch waterproofing.

**PLANS FOR CONSTRUCTION OF
SANITARY SEWERS, STORM SEWERS,
GRADING, PAVING AND WATER MAINS**

**FOR
WINDSONG
PHASE TWO**

A TRACT OF LAND
N U.S. SURVEY 1766 T.47 N, R.3 E.
ST. CHARLES, MISSOURI

STORM AND SANITARY SEWER AS-BUILTS



DEVELOPMENT NOTES

- Gross Acreage of Property: 72.56 acres to centerline of Old Highway 40
- Present Zoning Classification: "R-1A" Single Family Residential (50.03 Acres) "RP-4" Planned Residential (22.53 Acres)
- Proposed Zoning Classification: "R-1A" and "RP-4" Districts with "P.U.D." Planned Unit Development Attachment.
- Proposed Use of Property: Single Family Residential Subdivision of 193 Lots and Common Ground. 61 LOTS (PHASE TWO)
- This property will be served by the following utilities:
WATER: Union Electric Company
SANITARY SEWER: Union Electric Company
ELECTRIC: Union Electric Company
GAS: St. Charles Gas Company
TELEPHONE: Contel Telephone Company
- This property is located in the following service areas:
Fort Zumwalt School District
O'Fallon Fire Protection District
- The proposed Height and Lot Area Requirements are as follows:
Minimum Front Yard: 25 feet
Minimum Rear Yard: 25 feet, which may be reduced to 15 feet on corner lots
Minimum Side Yard: 6 feet
Maximum Height of Building: 2 1/2 stories or 35 feet
Minimum Lot Area: 7500 sq. ft.
- Phase II contains the approximate division of gross acreage as follows:
Gross Acreage: 24.522 acres
Acreage in Street Right-of-Way: 3.792 acres
Net Acreage: 20.730 acres
Acreage of Common Ground: 6.618 acres
Acreage in SPR Lots: 14.007 acres

This is to certify that the following as-builts locations were located in the field and the results shown herein

Daniel M. Elmann
Mo. Reg. L.S. #2215

LEGEND

EXISTING	PROPOSED
400	Contours (400)
± 451	Spot Elevation ±(458)
---	Building Line
---	Property Line
---	Center Line
---	Structures
---	Tree or Bush
---	Fence
---	Storm Sewer
---	Sanitary Sewer
---	Curb or Area Catch Basin
---	Grated Inlet
---	Manhole
---	Flared End Section
---	Cleanout
---	Utility or Power Pole
---	Fire Hydrant
---	Soil Boring
---	Railroad
---	Gas Main
---	Water Main
---	Telephone
---	Electric
---	Use in Place (U.I.P)
---	To Be Removed (T.B.R)
---	To Be Removed & Replaced (T.B.R.R)
---	Decks
---	Light Standard
---	Handicapped

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	FLAT PLAN
3	WATER PLAN
4	GRADING PLAN
5, 6	STREET PROFILES
3-5	SEWER PROFILES
10-12	DRAINAGE AREA MAP
13-16	CONSTRUCTION DETAILS

U.S.G.S. Benchmark: Elevation - 493.87
Chiseled square in top of south headwall in the middle of Mexico Road bridge over Belleau Creek. (Culvert removed during construction of new bridge over Belleau Creek)

SITE BENCHMARK: Elevation - 480.67
Top Mt 29 (R-30) on the east side of Belleau Creek across from the Copperfield Recreation Complex.

BAX ENGINEERING CO., INC.
221 Point West Blvd. St. Charles, Missouri 63301
946-6588 724-3330

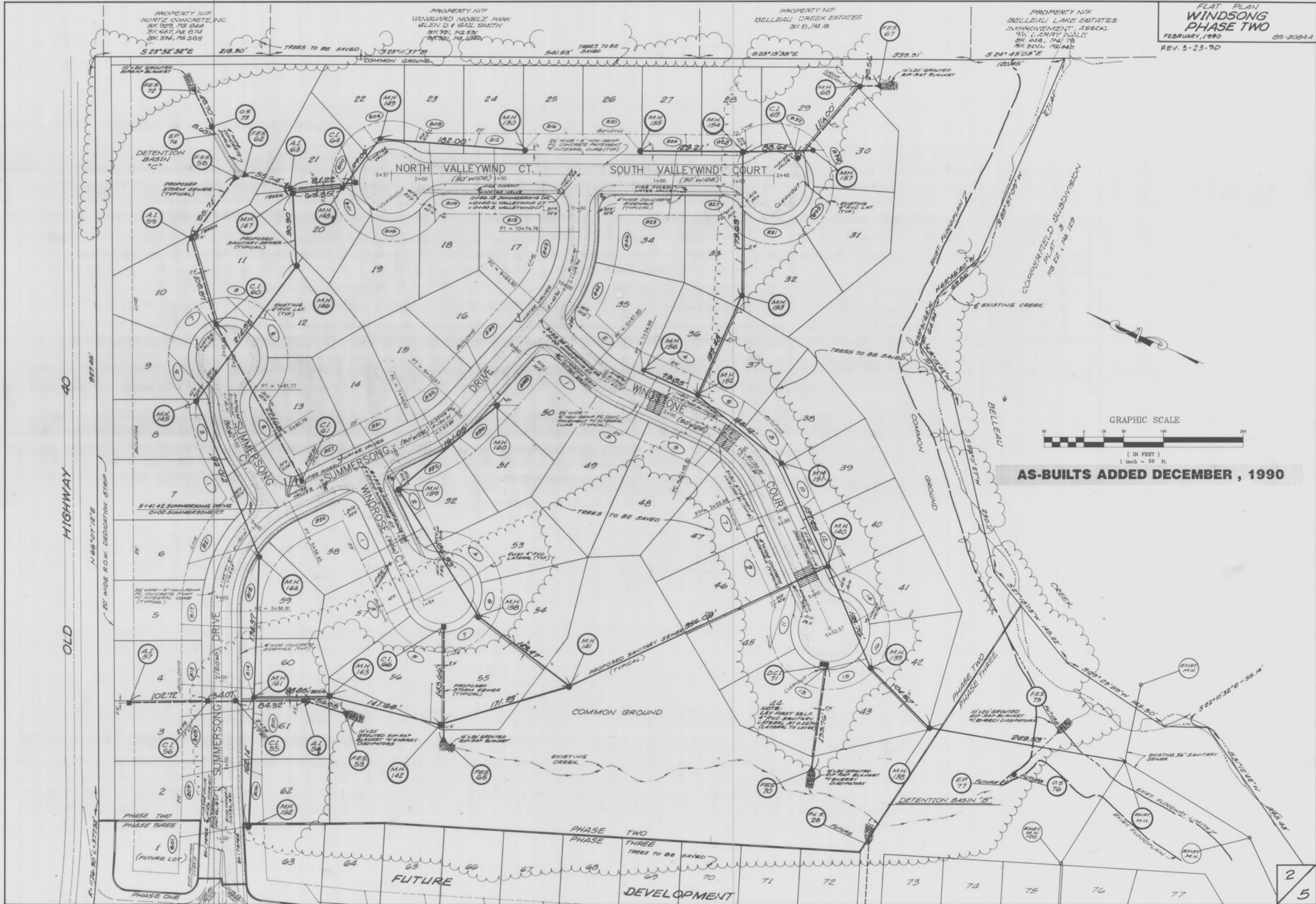
DEVELOPER:
FUTURA PROPERTIES
7 NORTH BRENTWOOD BLVD
SUITE 320
CLAYTON, MO 63105
725-4000

DATE: FEB, 1990

REVISION NO. 05 2084A

SHEET 1 OF 5

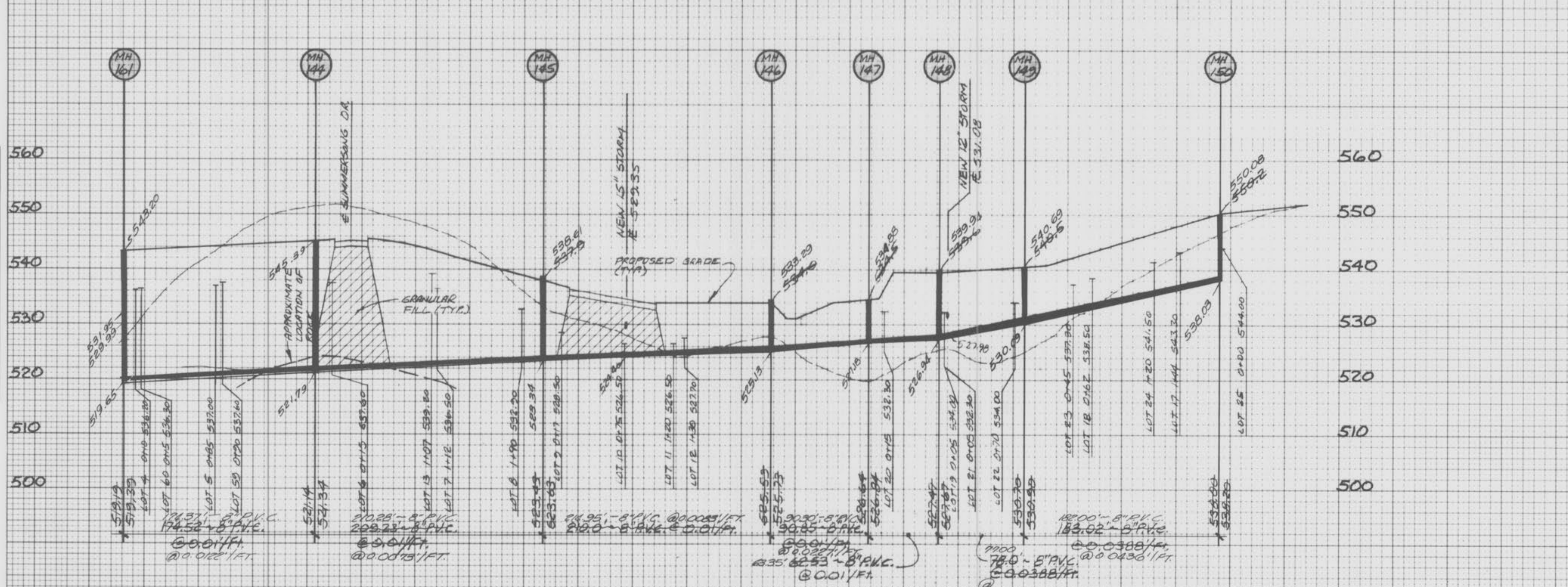
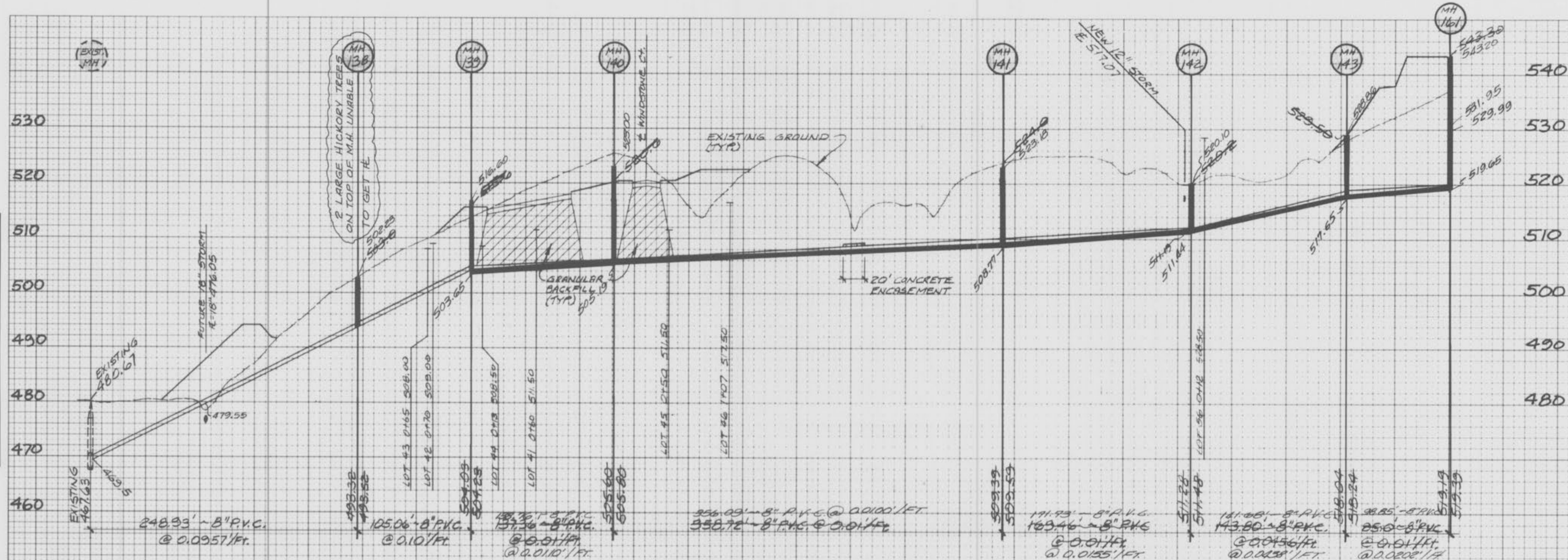
AS-BUILTS ADDED DECEMBER, 1990



AS-BUILTS ADDED DECEMBER, 1990

FINAL SURVEY DATE BY
 REVISED PLOTTED
 SURVEY SURVEY
 NOTE BOOK TEMPLATE
 AREA NO. LABEL CHECKED

ORIGINAL SURVEY DATE BY
 REVISED PLOTTED
 SURVEY SURVEY
 NOTE BOOK TEMPLATE
 AREA NO. LABEL CHECKED



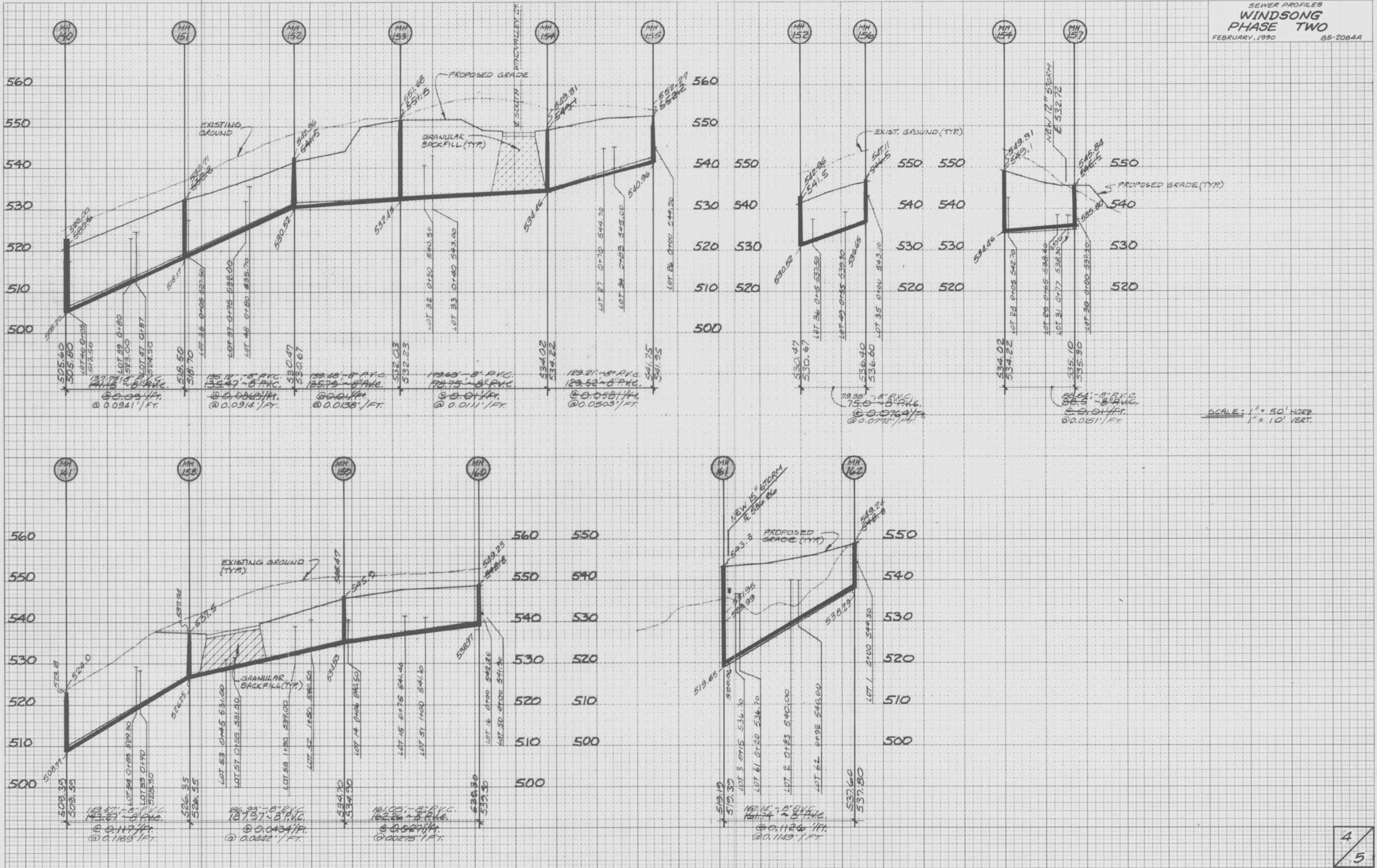
SCALE: 1" = 50' HORIZ
 1" = 10' VERT.

PLATE 3-FULL CROSS SECTION FULL LINE
 WINDSONG
 PRINTED IN U.S.A.

AS-BUILTS ADDED DECEMBER, 1990

FINAL SURVEY PLOTTED BY DATE
 NOTE BOOK NO. AREA CHECKED

ORIGINAL SURVEY PLOTTED BY DATE
 NOTE BOOK NO. AREA CHECKED



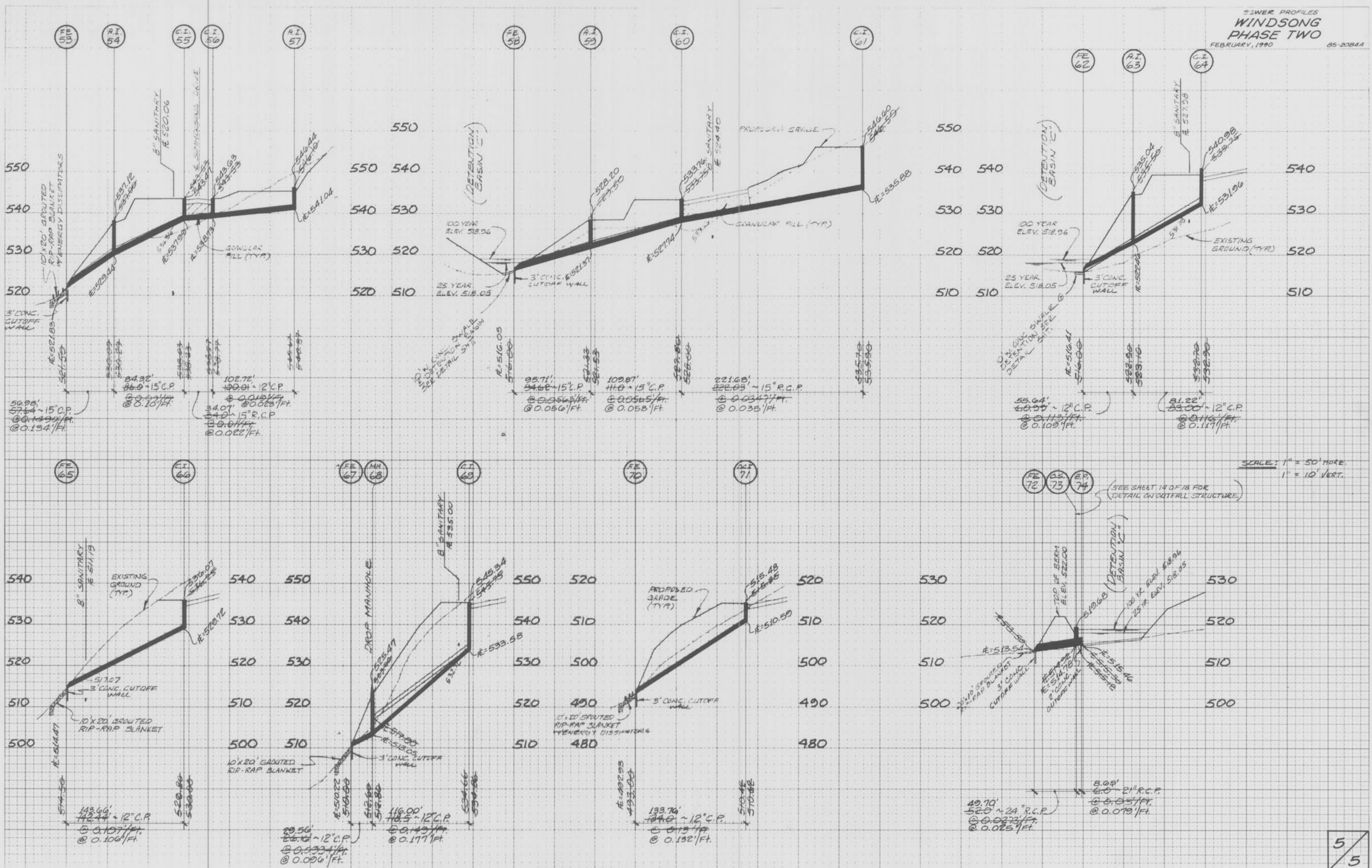
HIGHWAY FEDERAL AID SHEET
 PLATE 3-FULL CROSS SECTION FULL LINE
 WINDSONG
 PRINTED IN U.S.A.

AS-BUILTS ADDED DECEMBER, 1990

4
5

FINAL SURVEY PLOTTED
 NOTE BOOK PROPERTY
 AREA
 NO. 144224222

ORIGINAL SURVEY PLOTTED
 NOTE BOOK PROPERTY
 AREA
 NO. 144224222



SCALE: 1" = 50' HORIZ.
 1" = 10' VERT.

(SEE SHEET 14 OF 18 FOR
 DETAIL ON OUTFALL STRUCTURE)

PLATE LEFT CROSS SECTION (1/4" = 1')

AS-BUILTS ADDED DECEMBER, 1990

WINDSONG PH2

5/5