

City of O'Fallon

General Notes

- Gas, water and other underground utilities shall not conflict with the depth or horizontal locations of existing and proposed sanitary and storm sewers, including house laterals.
- 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.
- 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.
- Storm sewers 18" in diameter or smaller shall be ASTM C-14.
- Storm sewers 21" in diameter or larger shall be ASTM C-76, Class II.
- All storm sewer pipe under pavement, regardless of size, shall be reinforced concrete pipe (ASTM C-76, Class III) unless noted otherwise on the plans.
- Corrugated metal pipe shall conform to the standard specifications for corrugated culvert pipe M-16, A.A.S.H.O. See plans for gauge.
- All filled places under buildings, proposed sanitary and storm sewer lines, and/or paved areas including trench backfills shall be compacted to 90% of maximum density as determined by the "Modified A.A.S.H.O. T-180 Compaction Test" (ASTM D-1557) unless otherwise specified by the local governing authority specifications. All tests will be verified by a Soils Engineer.
- All earthen filled places within State, County, or City roads (Highways) shall be compacted to 95% of maximum density as determined by the "Standard Proctor Test A.A.S.H.O. T-99" (ASTM D-698) unless otherwise specified by local governing authority specifications. All tests will be verified by a Soils Engineer.
- All storm and sanitary trench backfills shall be water jetted. Granular fill will be used under paved areas.
- 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.
- No area shall be cleared without the permission of the developer.
- All grade shall be within 0.2 feet (more or less) of those shown on the grading plan.
- No slope shall be greater than 3:1 and shall be either sodded or seeded and mulched.
- Hazard markers will consist of three (3) standard specification, "Manual on Uniform Traffic Control Devices", and of roadway markers mounted on two (2) pound "U" 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.
- All manhole and curb inlet traps 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 face staked. If normal face stakes fall in line with sewer construction, the Engineer will set these stakes on a double offset. It shall be the responsibility of the sewer contractor to preserve all face stakes from destruction.
- All standard street curb inlets to have front of inlet 2 feet behind curb.
- 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 of not less than 2-1/2 feet.
- Water lines, valves, sleeves, meters and etc. shall meet all specifications and installation requirements of the local governing authority.
- All cast iron pipe for water mains shall conform to A.W.W.A. specification C-106 and/or C-108. The cast iron fittings shall conform to A.W.W.A. specification C-110. All rubber gasket joints for water cast iron pressure pipe and fittings shall conform to A.W.W.A. specification C-111.
- All water hydrants and valves shall be cast iron and installed in accordance with plans and details.
- All sanitary and storm sewers shall meet all specifications and installation requirements of the local governing authority.
- All PVC water pipe shall have a minimum pressure rating of PR-200 or SDR-21.
- All PVC sanitary sewer pipe shall be SDR-35 or equal with crushed stone bedding uniformly graded between 1/2" and 1/4" size. This bedding shall extend from 4" below the pipe to 12" above the top of the pipe.
- All grading on Missouri State Highway Right-of-Way shall be seeded and mulched and all disturbed Right-of-Way markers shall be reset at the completion of grading.
- All streets must meet the specifications and installation requirements of the City of O'Fallon.
- All sanitary manhole tops shall be set 0.2' higher than the proposed ground except in pavement areas.
- All sanitary manholes shall have a 31 mil thick coat of coal tar pitch waterproofing.
- All sanitary service lines shall have a 6" diameter for Multi-family and a 4" diameter for Single-family developments.
- Manhole frame and cover shall be Clay and Bailey No. 2008 for Neenah R-1736 or Deeter 1315 or approved equal.
- A drop of 0.2 feet is required through each sanitary manhole.
- Duckett Creek Sewer Dist. shall be notified at least 48 hours prior to construction of sanitary sewers for coordination and inspection.
- Brick shall not be used on manholes.
- Sewer contractor shall maintain 24" vertical separation between all storm sewers and the sludge force main. Contractor shall be responsible for verifying separation prior to storm sewer installation.
- This tract is served by:
 - Unjon Electric
 - Cottleville Fire Protection Dist.
 - Southwestern Bell Telephone
 - St. Charles Gas Co.
 - Duckett Creek Sewer Dist.
 - Missouri Cities Water Co.
- Waterproofing: Waterproofing will be required on the exterior of all manholes. The bitumen shall consist of two coats of asphalt, coal-tar pitch, or a coating meeting American Society for Testing and Materials (ASTM) D-41. Asphalt shall conform to the requirements of ASTM D 449. Coal-tar pitch shall conform to the requirements of ASTM D 450. Coating shall be 31 mils thickness.

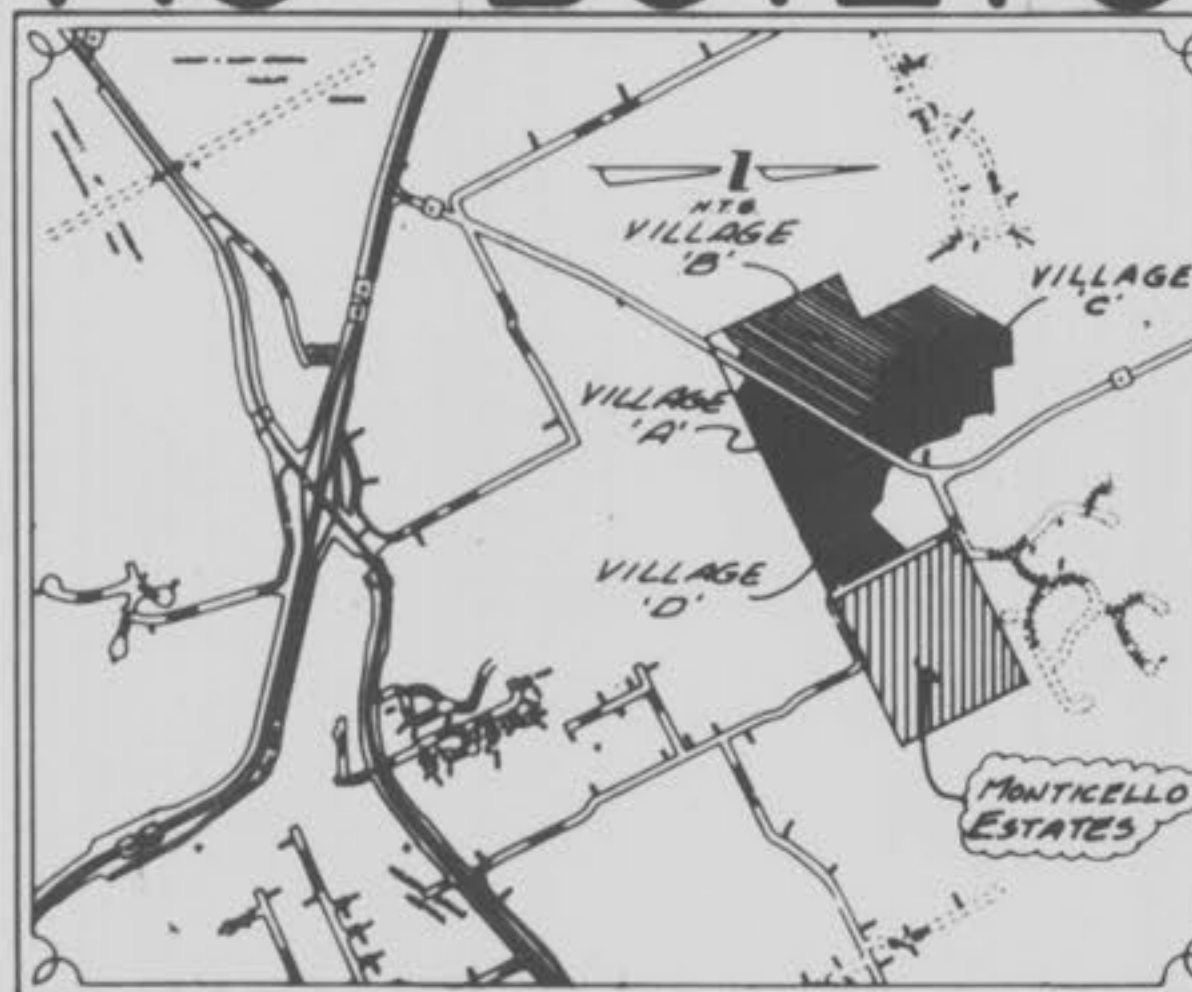
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ESTATES

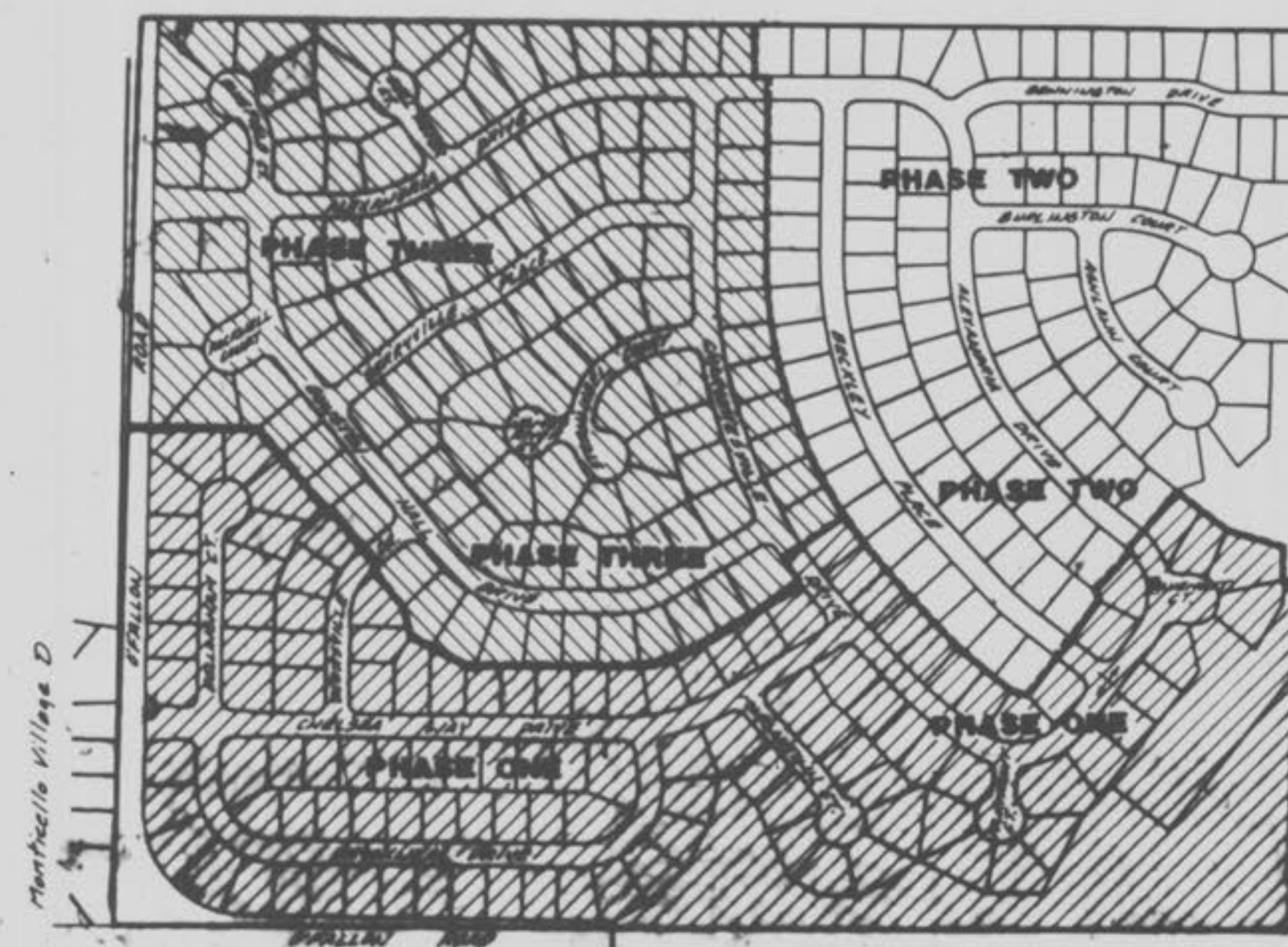
PHASE TWO

(106 LOTS)

"AS-BUILTS"



Location Map
1/4" = 100'



Key Map
1" = 300'

- All PVC sanitary sewer pipe 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 springline of 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 pipes shall have positive drainage through manholes. No flat base structures are allowed.
- All storm sewer pipe is to be Class III unless otherwise noted on profile sheets.
- Lots with low sill elevations called out on grading plans will require a NEIP elevation certificate.
- For soil and erosion control plan, see previously approved grading plan.

Index

Sheet	Description
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2-3	FLAT PLANS
4-5	GRADING PLANS
6-7	STREET PROFILES
8-9 4-5	SANITARY SEWER PROFILES
9-10 5-6	STORM SEWER PROFILES
11-12	DRAINAGE AREA MAPS
13-15	CONSTRUCTION DETAILS

Benchmark

ORF TRL STA. 3.5 MI. S.W. OF O'FALLON, 0.5 MI. N.E. OF DARDENNE CHURCH, IN CONC. POST-U.S.C.&G.S. STD. DISK STAMPED "ORF 1931"
Elevation
667.596

Legend

	Sanitary Sewer (Proposed)	C.I.	Curb Inlet
	Sanitary Sewer (Existing)	D.C.I.	Double Curb Inlet
	Storm Sewer (Proposed)	G.I.	Grate Inlet
	Storm Sewer (Existing)	A.I.	Area Inlet
	Water Line & Size	D.A.I.	Double Area Inlet
	Tee & Valve	C.C.	Concrete Collar
	Hydrant	F.E.	Flared End Section
	Cap	E.P.	End Pipe
	Lot or Building Number	E.D.	Energy Dissipator
	Existing Fence Line	M.H.	Manhole
	Existing Tree Line	C.P.	Concrete Pipe
	Street Sign	R.C.P.	Reinforced Concrete Pipe
	Direction of Proposed Residence	C.M.P.	Corrugated Metal Pipe
	Existing Contour	C.I.P.	Cast Iron Pipe
	Proposed Contour	P.V.C.	Polyvinyl Chloride
	Grouted Rip-Rap	V.C.P.	Vitrified Clay Pipe
	End of Lateral	C.O.	Clean Out
	Asphalt Pavement	V.T.	Vent Trap
	Concrete Pavement		
	Storm/Sanitary Structure		
	Test Hole		
	Power Pole		
	Light Standard		

This is to certify to Duckett Creek Sewer Dist. that these "As-Built" San/Storm plans are based on actual field surveys conducted during July, 1993 and the results are shown here on.

by Pickett Ray & Silver

Delmar F. Vincent
MO R.L.S. No 1869

Date 10/2/03

ENGINEERS AUTHENTICATION
The responsibility for professional engineering liability on this project is hereby limited to the set of plans authorized by the seal, signature and date hereunder checked. Responsibility is disclaimed for all other engineering plans included in the project and specifically excludes revisions after this date unless reauthorized.

PICKETT, RAY & SILVER, INC.
RAY PICKETT
E-14396

Ray Pickett
10-2-03

10-4-93 "AS-BUILTS"
Rev. 2-24-93 sheets 4, 5, 9, 12 & 15

PICKETT RAY & SILVER

Civil Engineers Planners Land Surveyors
333 Mid Rivers Mall Dr.
St. Peters MO 63376
441-1711 278-1211

PREPARED FOR:
WHITTAKER HOMES Phone: (314) 279-1511
355 Mid Rivers Mall Drive
St. Peters MO. 63376

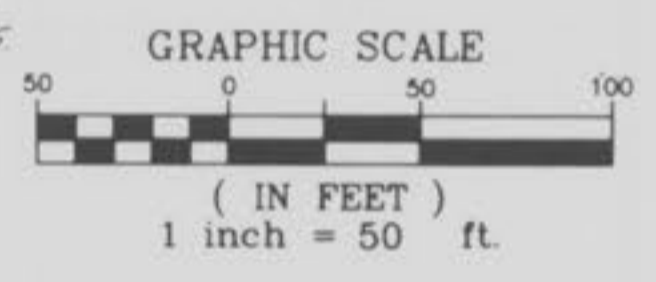
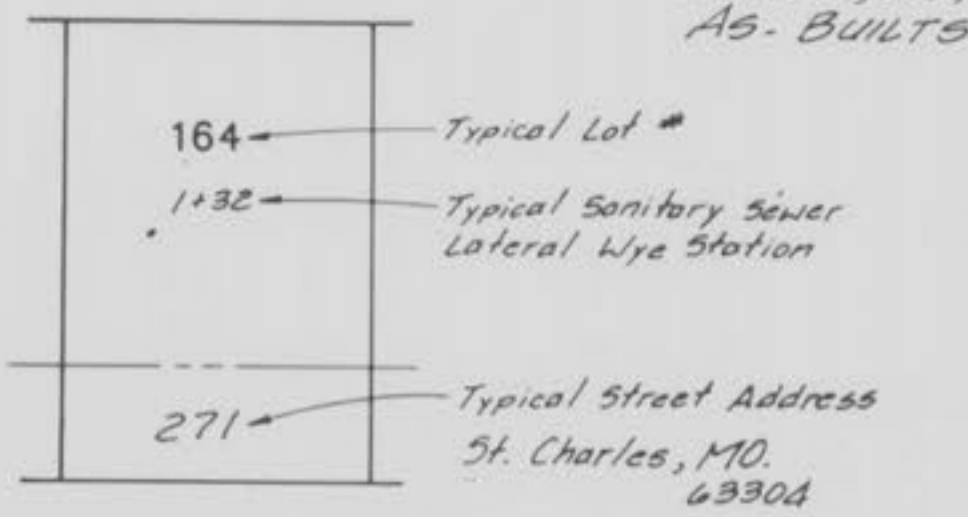
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FIELD BOOK: 416 PROJECT: 91-050
JOB ORDER: 22890

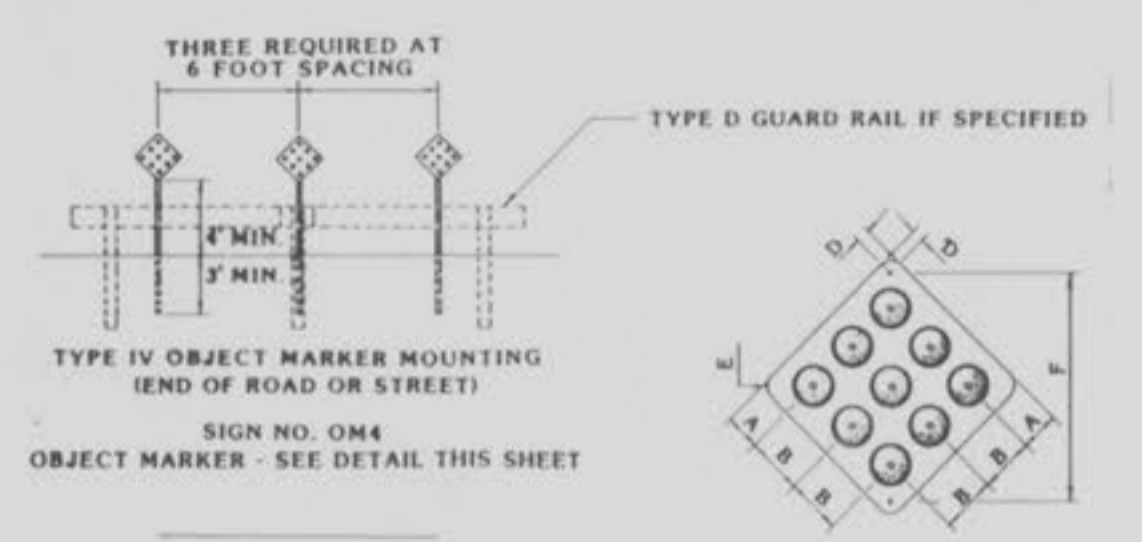
1/6

NOTE:
Underground utilities and structures have been plotted from available information and therefore, their location must be considered approximate only. It is the responsibility of the individual contractors to notify the utility companies before actual construction.

NOTE: SHADED "BALLOONS" INDICATE "AS-BUILT" STRUCTURES.



Note: At all intersections, rounding radius is 25' for ROW and 37' for pavement.



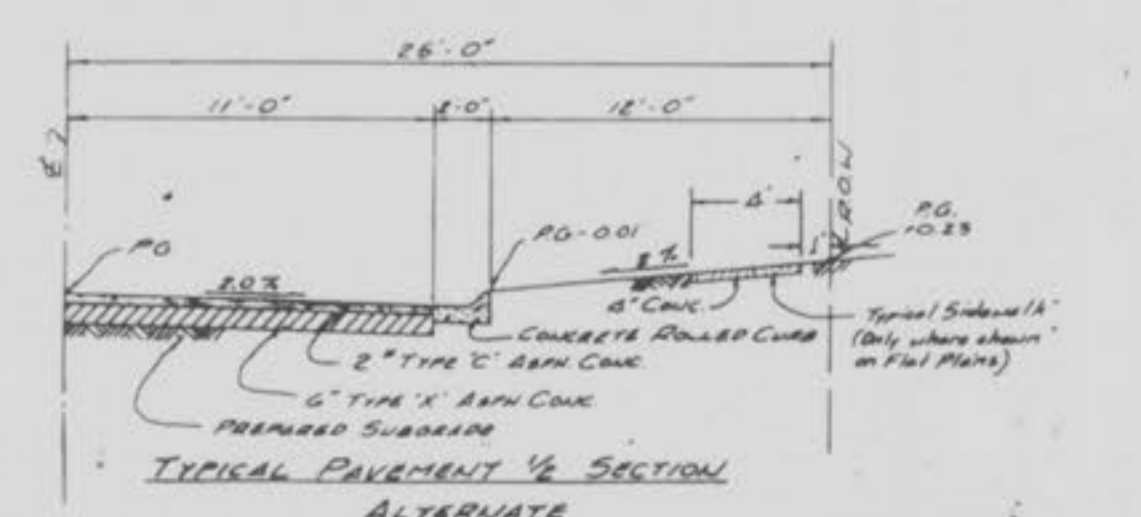
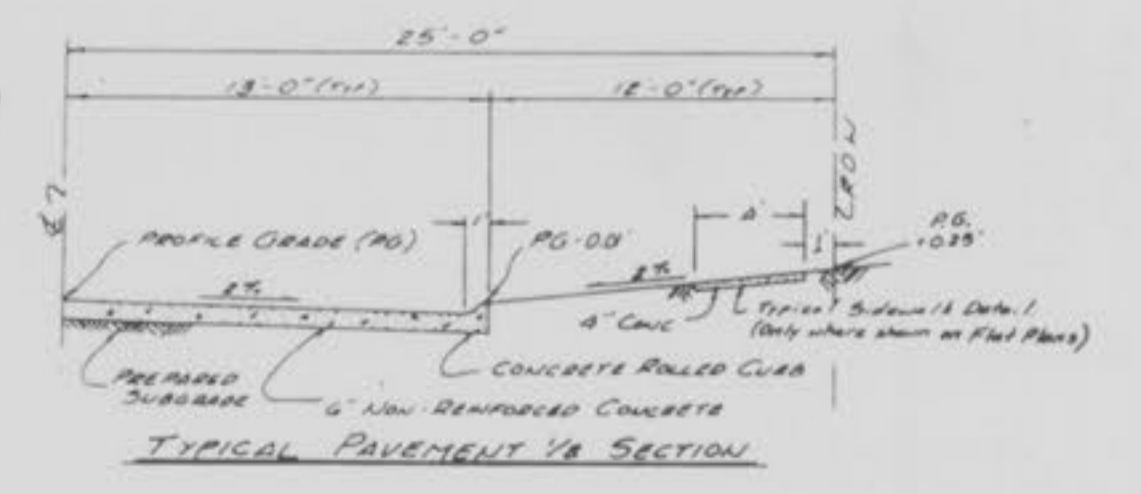
SIGN	A	B	C	D	E	F
	18" x 18"	3-11/16"	5-5/16"	3-1/4"	1-1/4"	1-1/2" x 22"

TYPE IV OBJECT MARKER IMMEDIATELY IN BACK OF GUARD RAIL
TYPE D GUARD RAIL IF SPECIFIED
TYPICAL ROAD CLOSED
TYPE IV OBJECT MARKER RED REFLECTOR ON RED BACKGROUND
THICKNESS OF FLAT SHEET FOR TYPE IV OBJECT MARKER SHALL BE 0.063"

BARRICADE DETAIL NTS

NOTE: SHADED "BALLOONS" INDICATE "AS-BUILT" STRUCTURES.

SWALE "A"
6" W. Flat Bottom
Concrete - See Detail on Sheet 4 of 15

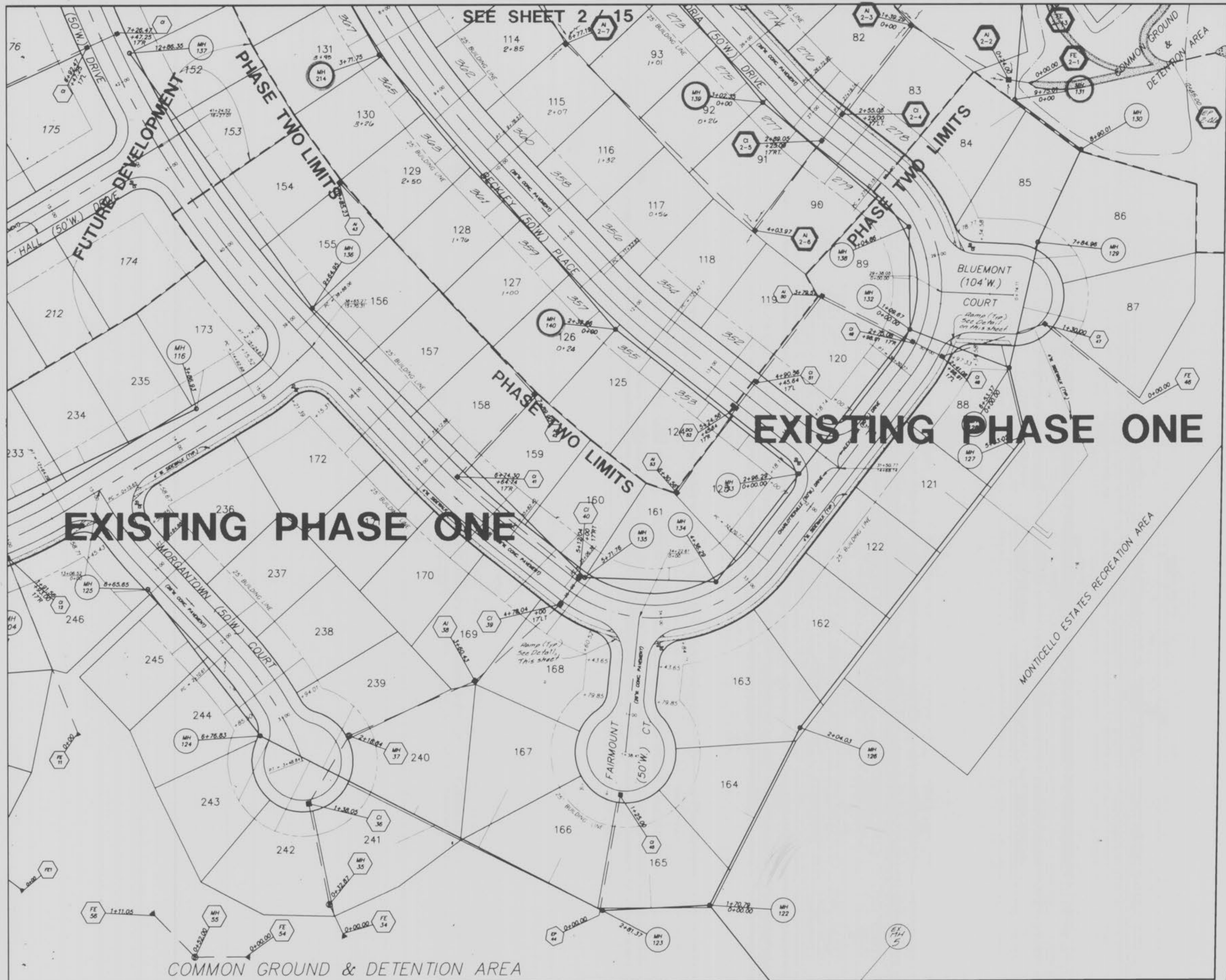


SWALE "B"
5" W. Flat Bottom
Cone - See Detail on Sheet 4 of 15

Grouted Rip-Rap with Energy Dissipator - See Detail on Sheet 5 of 15



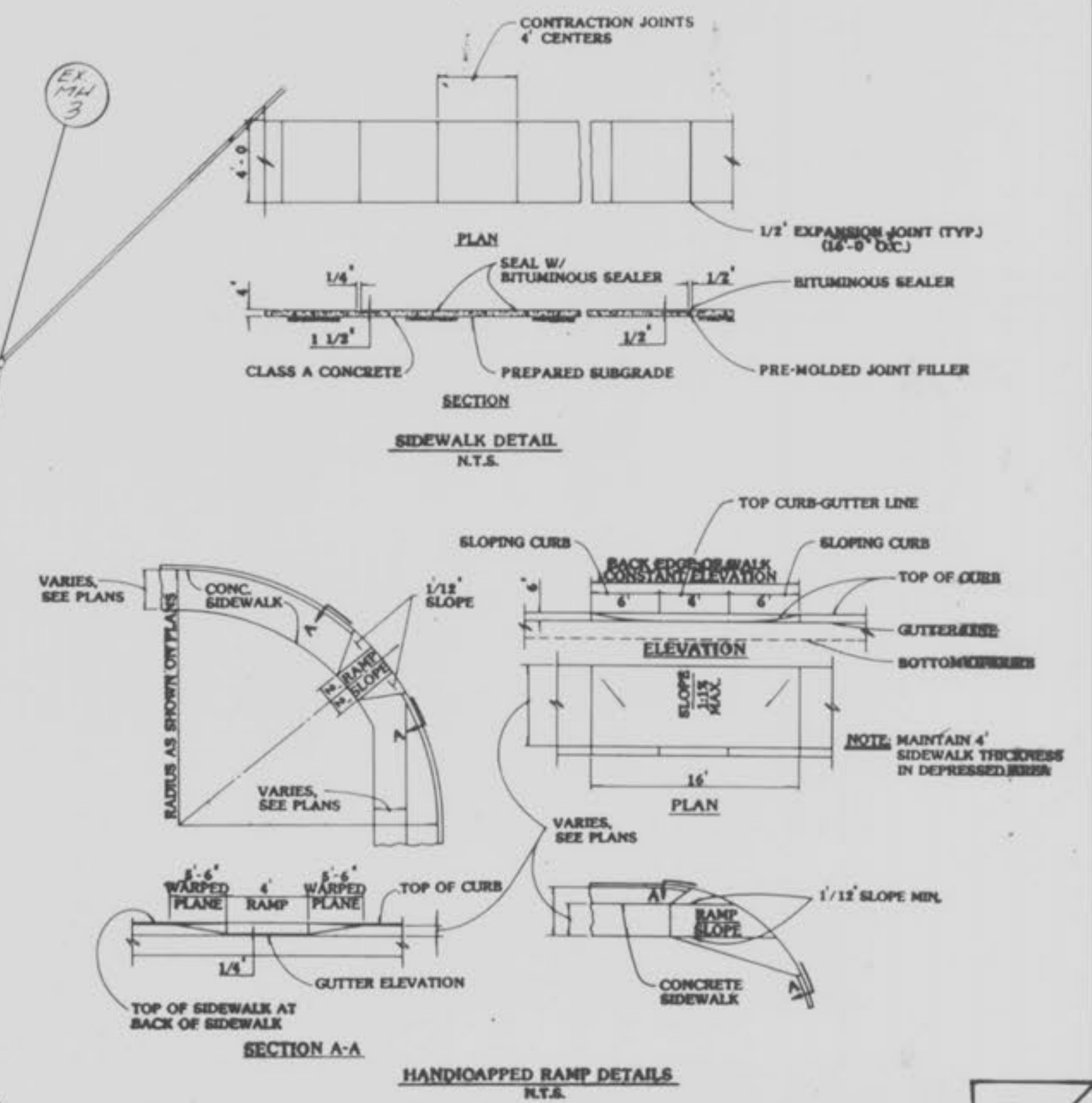
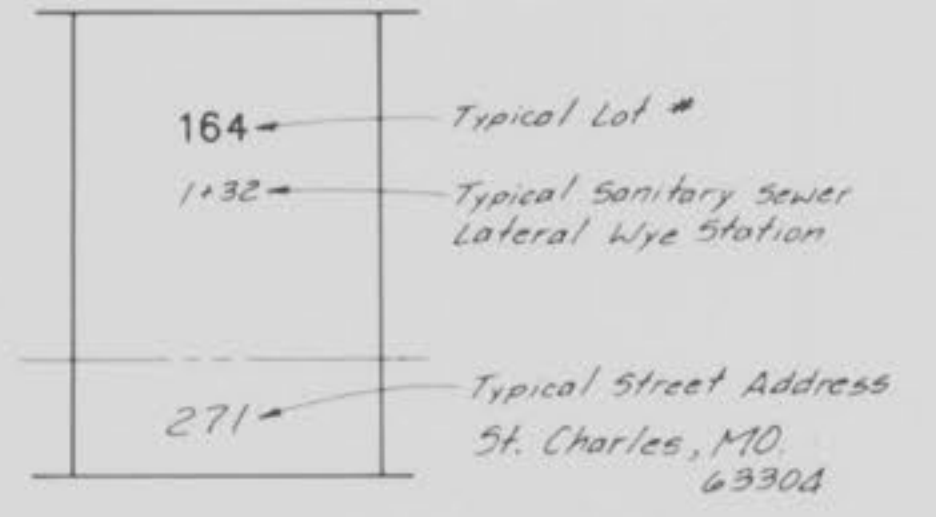
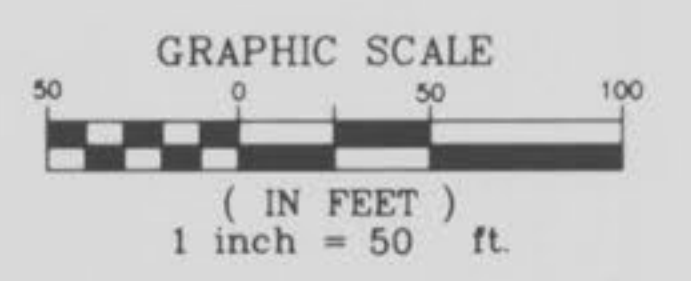
SEE SHEET 3 / 15



EXISTING PHASE ONE

EXISTING PHASE ONE

NOTE: SHADED "BALLOONS" INDICATE "AS-BUILT" STRUCTURES



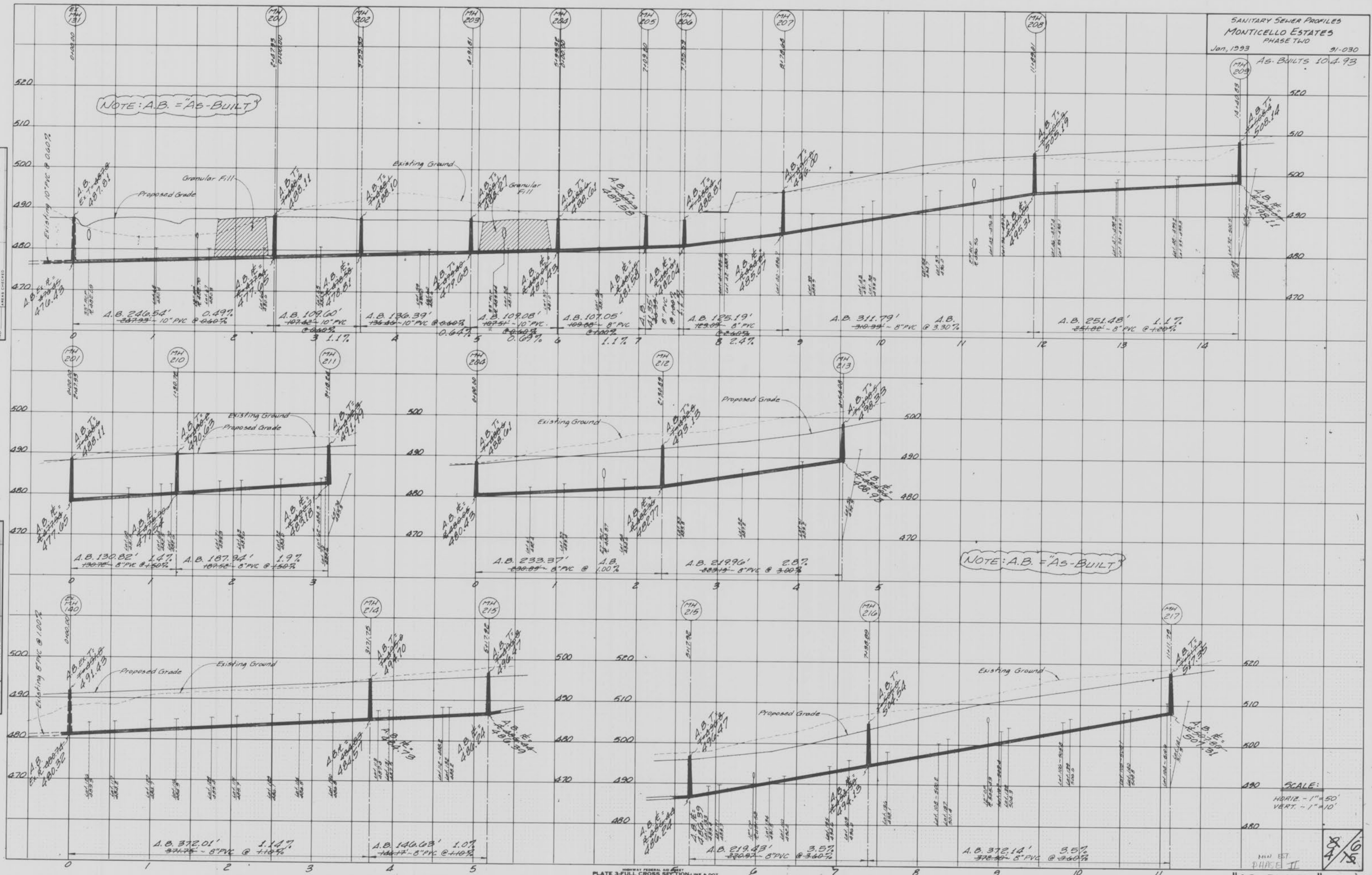
NOTE:
 Underground utilities and structures have been plotted from available information and therefore, their location must be considered approximate only. It is the responsibility of the individual contractors to notify the utility companies before actual construction.

Existing Crooked Creek Trunk Line

NOTE: A.B. = "AS-BUILT"

DATE: _____
 BY: _____
 CHECKED: _____
 FINAL SURVEY PLOTTED: _____
 SURVEY NOTE BOOK NO. _____
 TEMPLATE NO. _____
 AREAS CHECKED: _____

DATE: _____
 BY: _____
 CHECKED: _____
 ORIGINAL SURVEY PLOTTED: _____
 SURVEY NOTE BOOK NO. _____
 TEMPLATE NO. _____
 AREAS CHECKED: _____



NOTE: A.B. = "AS-BUILT"

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

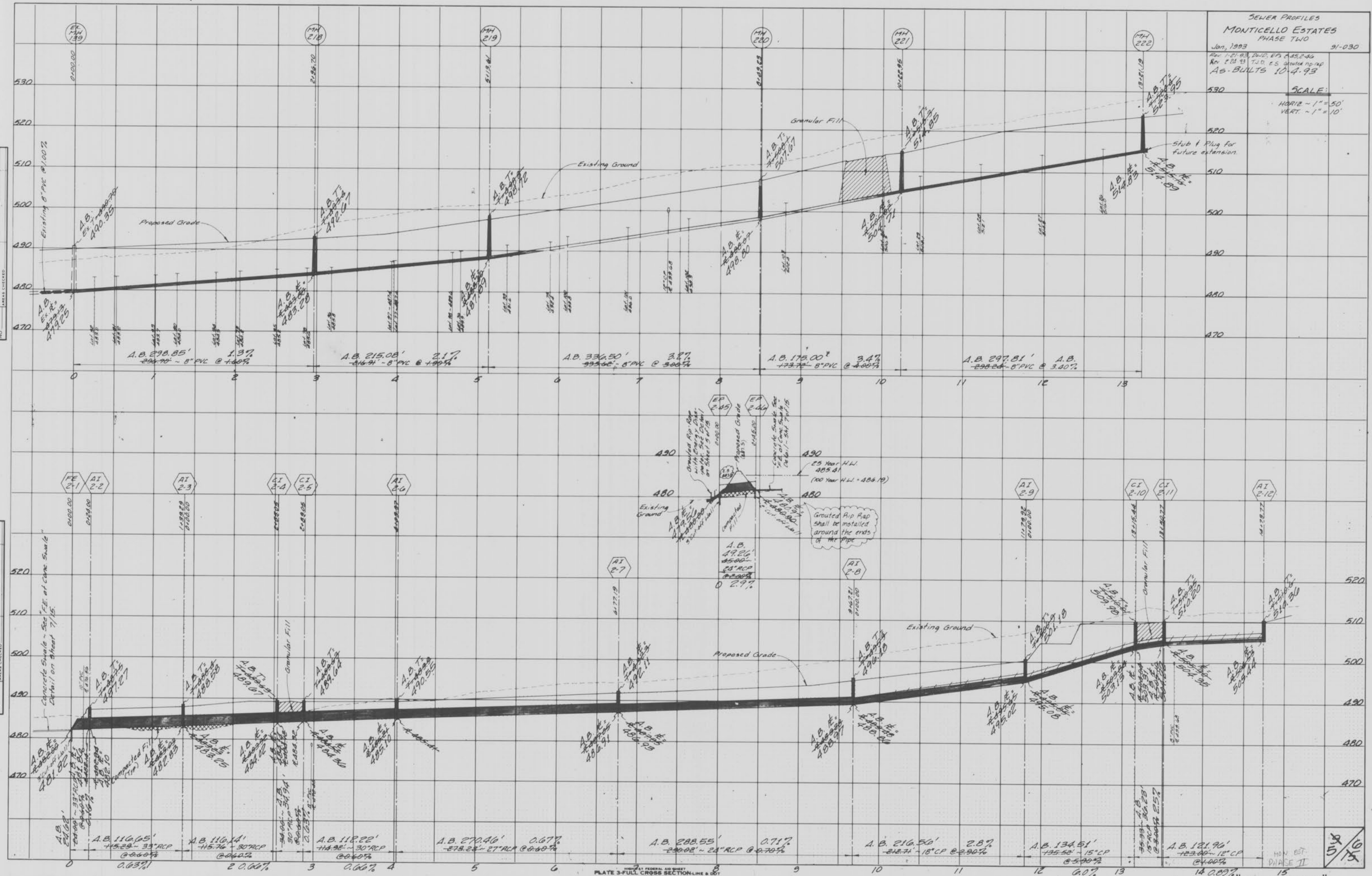
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SEWER PROFILES
 MONTICELLO ESTATES
 PHASE TWO
 Jan, 1993
 Rev. 1-27-93, PWD, EP, AS, P, AG
 Rev. 2-21-93 T.D. E.S. Grouted no. 149
 A.S. BUILTS 10-4-93
 91-030

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

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

ORIGINAL SURVEY BY DATE
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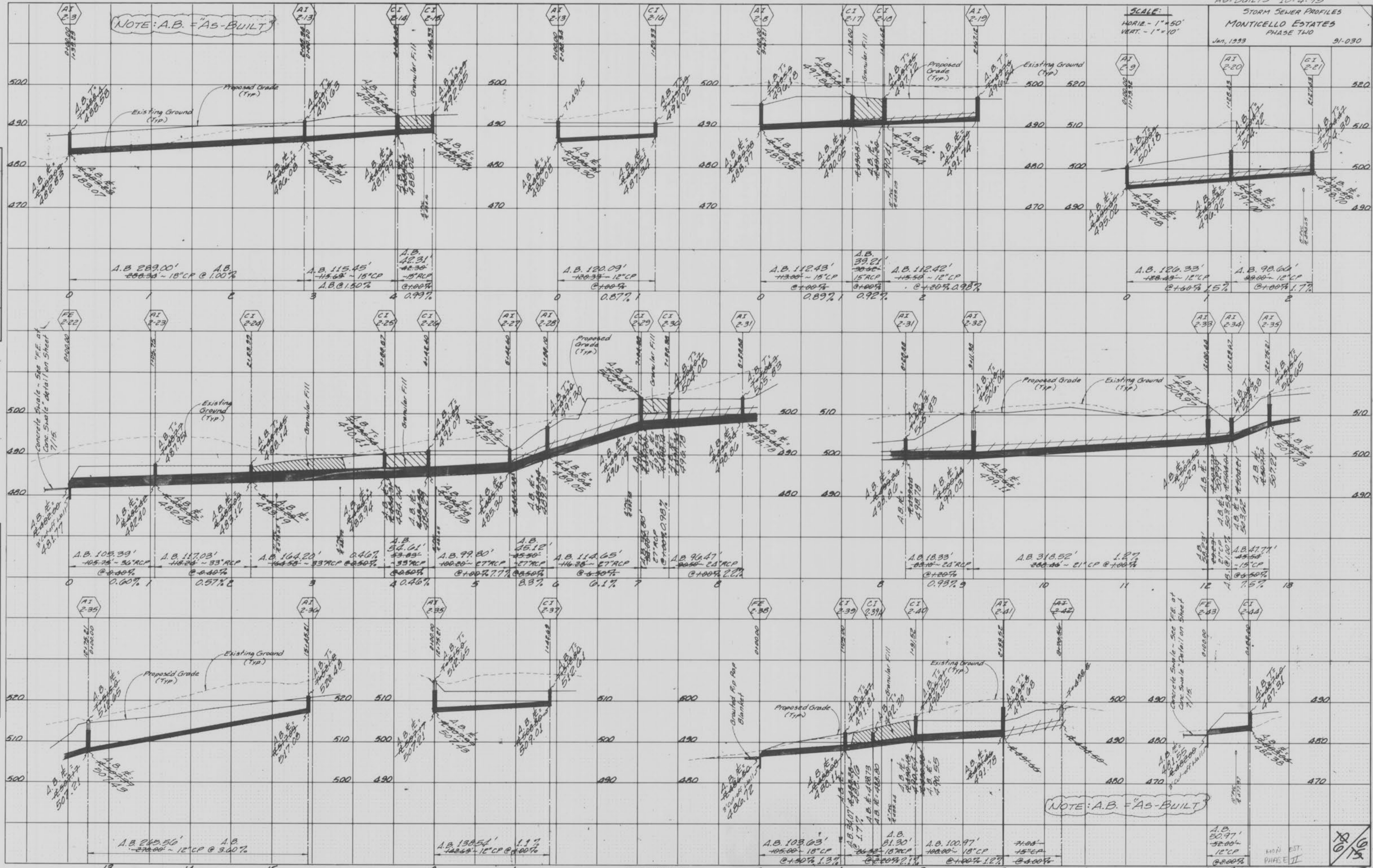


FEDERAL AID SHEET
 PLATE 3-FULL CROSS SECTION LINE & 50'
 WYBLENDE
 PRINTED IN U.S.A.

AS-BUILTS
 Monticello Estates Ph. II

2/16/93
 5/15

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



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