

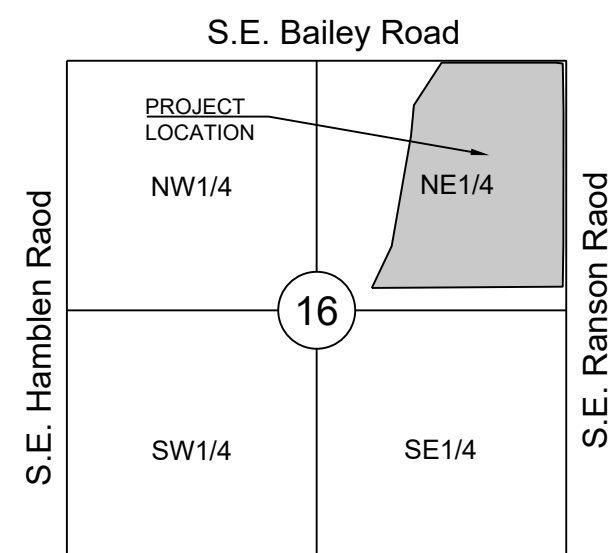
# SANITARY MAIN EXTENSION PLANS FOR MANOR AT BAILEY FARMS, FIRST PLAT IN THE CITY OF LEE'S SUMMIT JACKSON COUNTY, MO

## LEGEND:

A/E	- ACCESS EASEMENT
BC	- BACK OF CURB
B/B	- BACK TO BACK
BM	- BENCHMARK
BL or B.L.	- BUILDING LINE
CO	- CLEANOUT
TJB	- TELEPHONE JUNCTION BOX
C&G	- CURB AND GUTTER
D/E	- DRAINAGE EASEMENT
E/E	- ELECTRICAL EASEMENT
EL	- ELEVATION
FL	- FLOW LINE
G/E	- GAS LINE EASEMENT
HDPE	- HIGH-DENSITY POLYETHYLENE
L/E	- LANDSCAPE EASEMENT
MSFE	- MINIMUM SERVICEABLE FLOOR ELEVATION
PVC	- POLYVINYL CHLORIDE
P/L	- PROPERTY LINE
PUB/E	- PUBLIC EASEMENT
RCP	- REINFORCED CONCRETE PIPE
ROW or RW	- RIGHT-OF-WAY
S/E	- SANITARY SEWER EASEMENT
SL	- SERVICE LINE
SW	- SIDEWALK
TE	- TOP ELEVATION
U/E	- UTILITY EASEMENT
WSE	- WATER SURFACE ELEVATION
W/E	- WATERLINE EASEMENT

	ASPHALT PAVEMENT - EXISTING
	ASPHALT PAVEMENT - PROPOSED
	CONCRETE PAVEMENT - EXISTING
	CONCRETE PAVEMENT - PROPOSED
	CONCRETE SIDEWALK - EXISTING
	CONCRETE SIDEWALK - PROPOSED
	CURB & GUTTER
	CURB & GUTTER - EXISTING
	TREELINE
	EXISTING LOT AND R/W LINES
	EXISTING PLAT LINES
	PROPERTY LINES
	RIGHT-OF-WAY
	SANITARY SEWER MAIN
	SANITARY SEWER MAIN - EXIST.
	STORM SEWER
	STORM SEWER - EXISTING
	CABLE TV - EXISTING
	FIBER OPTIC CABLE - EXISTING
	TELEPHONE LINE - EXIST.
	ELECTRIC LINE - EXISTING
	OVERHEAD POWER LINE - EXIST.
	UNDERGROUND ELECTRIC - EX.
	GAS LINE - EXISTING
	WATERLINE - EXISTING
	LIGHT - EXISTING
	EXISTING MANHOLE
	CLEANOUT
	EXISTING SANITARY MANHOLE
	PROPOSED SANITARY MANHOLE
	EXISTING AREA INLET
	EXISTING CURB INLET
	EXISTING GRATE INLET
	EXISTING JUNCTION BOX
	EXISTING STORM MANHOLE



## UTILITY CONTACTS:

**MISSOURI DEPARTMENT OF TRANSPORTATION (MODOT)**  
Steve Holloway  
600 NE Colbern Road  
Lee's Summit, MO 64086  
(816) 607-2186

**MISSOURI GAS ENERGY (MGE)**  
Brent Jones  
3025 SE Clover Drive  
Lee's Summit, MO 64082  
(816) 399-9633  
brent.jones@spireenergy.com

**EVERGY**  
Ron DeJarnette  
1300 SE Hamblin Road  
Lee's Summit, MO 64081  
Office: (816) 347-4316  
Cell: (816) 810-5234  
ron.dejarnette@evergy.com

**CITY OF LEE'S SUMMIT PUBLIC WORKS**  
Dena Mezger  
220 SE Green Street  
Lee's Summit, MO 64063  
(816) 969-1800

**AT&T**  
Mark Manion or Marty Loper  
500 E. 8th Street, Room 370  
Kansas City, MO 64106  
(816) 275-2341 or (816) 275-1550

**COMCAST CABLE**  
John Meadows  
4700 Little Blue Parkway  
Independence, MO 64057  
(816) 795-2257

**CITY OF LEE'S SUMMIT WATER UTILITIES**  
Mark Schaulfer  
1200 SE Hamblin Road  
Lee's Summit, MO 64081  
(816) 969-1900

	SUMMARY OF QUANTITIES		
	ITEM	QUANTITY	UNITS
1	12" DIP	222	LF
2	10" PVC SDR-26	2405	LF
3	8" PVC SDR-26	3074	LF
4	6" PVC SDR-26	3519	LF
5	10" x 6" WYES	23	EA
6	8" x 6" WYES	60	EA
7	STD. 4' DIAMETER MANHOLE	29	EA
8	CONNECT TO EXISTING MANHOLE	1	EA
9	EXTRA DEPTH IN MANHOLE	253	VF
10	ROCK EXCAVATION (ESTIMATED)	500	CY
11	MANHOLE BARREL ADJUSTMENT	12	EA
12	MANHOLE RING ADJUSTMENT	12	EA
13	EROSION CONTROL	1	LS
14	BONDS	1	LS

## GENERAL NOTES:

- ALL CONSTRUCTION TO FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
- ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE ENGINEERING DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI.
- LINEAL FOOT MEASUREMENTS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS, NOT SLOPE MEASUREMENTS. ALL PAYMENTS SHALL BE MADE ON HORIZONTAL MEASUREMENTS.
- THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE TAKEN FROM UTILITY COMPANY RECORDS AND APPARENT FIELD LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL NUMBER 583, 78TH GENERAL ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT OF WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. THE CONTRACTOR MAY ALSO UTILIZE THE FOLLOWING TOLL FREE PHONE NUMBER PROVIDED BY "MISSOURI ONE CALL SYSTEM, INC.": 1-800-DIG-RITE. THIS PHONE NUMBER IS APPLICABLE ANYWHERE WITHIN THE STATE OF MISSOURI. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED.
- PRIOR TO ORDERING PRECAST STRUCTURES, SHOP DRAWING SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR APPROVAL.
- THE CONTRACTOR SHALL PROTECT ALL MAJOR TREES FROM DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN OTHERWISE.
- CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
- ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR, OR AS DIRECTED BY THE OWNER AT NO ADDITIONAL COST.
- ALL EXCAVATIONS SHALL BE UNCLASSIFIED. NO SEPARATE PAYMENT WILL BE MADE FOR ROCK EXCAVATION.
- THE CONTRACTOR SHALL CONTROL THE EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION AND SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS.
- THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH AN INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.
- THE CONTRACTOR SHALL CONTACT THE RIGHT OF WAY INSPECTOR AT 816-969-1800 PRIOR TO ANY LAND DISTURBANCE ACTIVITIES WITHIN THE RIGHT OF WAY. THESE ACTIVITIES MAY REQUIRE A PERMIT.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TRAFFIC HANDLING MEASURES NECESSARY TO ENSURE THAT THE GENERAL PUBLIC IS PROTECTED AT ALL TIMES. TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD-LATEST EDITION).
- ALL SANITARY SEWER LATERALS SHALL HAVE A TRENCH CHECK, CONSISTING OF FLOWABLE BACKFILL, INSTALLED DURING CONSTRUCTION. TRENCH CHECK SHALL EXTEND TO BOTTOM OF TRENCH, TO WIDTH OF TRENCH, TO 12 INCHES ABOVE PIPE. FOR A MINIMUM LENGTH OF 12 INCHES. TRENCH CHECK SHALL BE LOCATED AT LEAST 5 FEET FROM SANITARY MAIN.

## UTILITIES:

- Existing utilities have been shown to the greatest extent possible based upon information provided to the Engineer. The contractor is responsible for contacting the respective utility companies and field locating utilities prior to construction and identifying any potential conflicts. All conflicts shall immediately be brought to the attention of the Engineer.
- The contractor shall be responsible for coordinating any required utility relocations. Utilities damaged through the negligence of the contractor shall be repaired at the contractor's expense.
- Contractor shall verify flow-lines and structure tops prior to construction, and shall notify Engineer of any discrepancies. Provide shop drawings for all precast and manufactured utility structures for review by the Engineer prior to construction of the structures.
- Utility Separation: Waterlines shall have a minimum of 10 feet horizontal and 2 feet vertical separation from all sanitary sewer lines, manholes, and sanitary sewer service laterals, as measured from edge to edge. If minimum separations can not be obtained, concrete encasement of the sanitary line shall be required 10 feet in each direction of the conflict.
- Payment for trenching, backfilling, pipe embedment, flowable fill, backfill materials, clean up, seeding, sodding and any other items necessary for the construction of the utility line shall be included in the contract price for the utility installation.
- The Contractor shall be responsible for contacting respective utility companies 48-hours in advance for the inspection of any proposed utility main extension or service line or service connection to any existing main.
- Trench spoils shall be neatly placed onsite adjacent to the trench, and compacted to prevent saturation and excess sediment runoff. Unsuitable materials, excess rock and shale, asphalt, concrete, trees, brush etc. shall be properly disposed of offsite. Materials may be wasted onsite at the direction of the Owner or his appointed representative.
- All excavation is considered unclassified, unless noted otherwise. Unclassified excavation for utility trenching is subsidiary to the unit price provided for the pipe. Any quantity provided for rock excavation is estimated based on the information provided to the Project Engineer. The Engineer has the authority to identify and define the physical characteristics to determine the classification. Unit price quantities for rock excavation will be paid at a trench width of the nominal pipe diameter of the installed main plus 18 inches. Contractor is required to dispose of excess rock from their trenches by disposing it in areas as specified by the Project Engineer.

Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	OVERALL SITE LAYOUT
3	SITE LAYOUT
4	SITE LAYOUT
5	SITE LAYOUT
6	LINE A PLAN & PROFILE (STA. 0+00 - 14+00)
7	LINE A PLAN & PROFILE (STA. 0+00 - 14+00) (2)
8	LINE B PLAN & PROFILE
9	LINE C PLAN & PROFILE
10	LINE D PLAN & PROFILE
11	LINE E & F PLAN & PROFILE
12	LINE G & K PLAN & PROFILE
13	LINE L PLAN & PROFILE
14	SANITARY DETAILS

PREPARED BY:



1/31/2022

SCHLAGEL & ASSOCIATES, P.A.

APPROVED BY:

CITY ENGINEER

APPROVED FOR ONE YEAR FROM THIS DATE

DATE

OWNER/DEVELOPER:

CLAYTON PROPERTIES GROUP INC., DBA SUMMIT HOMES  
BRAD KEMPF  
120 SE 30TH STREET  
LEE'S SUMMIT, MISSOURI  
p (816) 246-6700  
BRADLEY@SUMMITHOMESKC.COM



## MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:

BM JA-45, IS A KC METRO ALUMINUM GRS DISK SET IN CONCRETE AND ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE RANSON ROAD. IT IS STAMPED JA45, 1987.

ELEV. = 1046.25

MANOR AT BAILEY FARMS, FIRST PLAT  
SANITARY MAIN EXTENSION PLANS  
1300 SE RANSON ROAD LEE'S SUMMIT, MO

DRAWN BY: NCA	CHECKED BY: JLL	DATE PREPARED: 1/16/2021	PROJ. NUMBER: 21-130	REVISION DATE: 1/24/2021	DESCRIPTION
					CITY COMMENTS

COVER SHEET

SHEET

1



**MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:**  
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--- PHASE LINE

- GENERAL NOTES:**
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  5. ALL SANITARY SEWER MANHOLES ARE 4' DIAMETER UNLESS OTHERWISE NOTED:



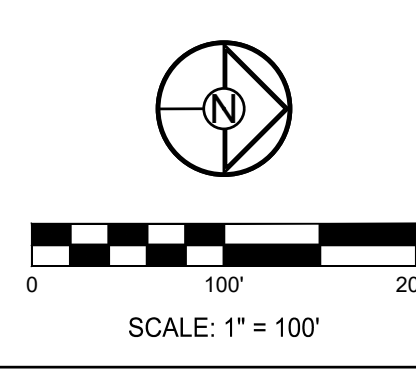
**SCHLAGEL**  
 ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS  
 14920 West 107th Street • Lenexa, Kansas 66215  
 (913) 492-5158 • Fax: (913) 492-8400  
 WWW.SCHLAGELASSOCIATES.COM  
 Missouri State Certificate of Authority  
 #E2002003690F #LAC2001005237 #LS2002008659F

PREPARED BY:  
  
 JAMES L. LONG  
 NUMBER PE-2014116495  
 PROFESSIONAL ENGINEER  
 1/31/2022  
 SCHLAGEL & ASSOCIATES, P.A.

**MANOR AT BAILEY FARMS, FIRST PLAT  
 SANITARY MAIN EXTENSION PLANS  
 1300 SE RANSON ROAD LEE'S SUMMIT, MO**

REVISION DATE	DESCRIPTION
1/24/2021	CITY COMMENTS

OVERALL SITE LAYOUT  
 SHEET  
**2**



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(UNPLATTED)  
 1728 SE RANSON ROAD  
 OWNER: WHITANCE DAVID E &  
 TRACY L.

365 ROCK 38 PAGE 84  
 (UNPLATTED)  
 OWNER: SCHOOL DISTRICT 7  
 (UNPLATTED)  
 OWNER: SCHOOL DISTRICT 7

17

E. LINE NE 1/4, SECTION 16-47-31

S02°17'56"W 2652.43'

N-TINE NE 1/4 SECTION 16-47-31  
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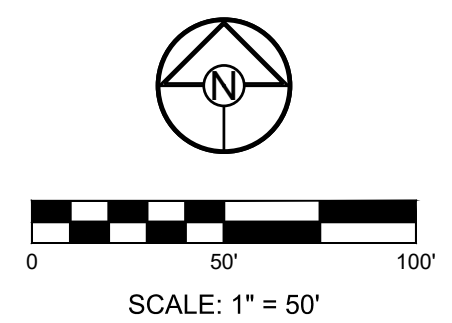
--- PHASE LINE

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FOUND 1/2" REBAR & CAP LS #1785



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 Missouri State Certificates of Authority  
 #E2002003690-F #LAC200100237 #LS200200859-F

PREPARED BY:  
  
 JAMES L. LONG  
 NUMBER PE-201410495  
 EXPIRES 1/31/2022  
 SCHLAGEL & ASSOCIATES, P.A.

**MANOR AT BAILEY FARMS, 1ST PLAT  
 SANITARY MAIN EXTENSION PLANS**  
 1300 SE RANSON ROAD LEE'S SUMMIT, MO

REVISION DATE	DESCRIPTION
	DESCRIPTION 1

DRAWN BY: NCA	CHECKED BY: JLL	DATE PREPARED: 11/05/2021	PROJ. NUMBER: 21-130
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SITE LAYOUT  
 SHEET  
**3**

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(UNPLATTED)  
 1720 SE RANSON ROAD  
 OWNER: WHITANCE DAVID

**MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:**

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--- PHASE LINE

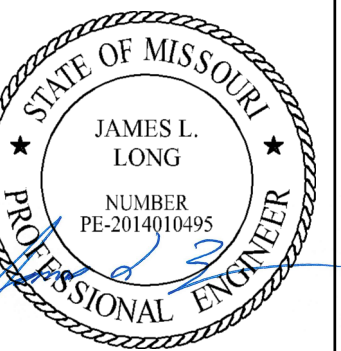
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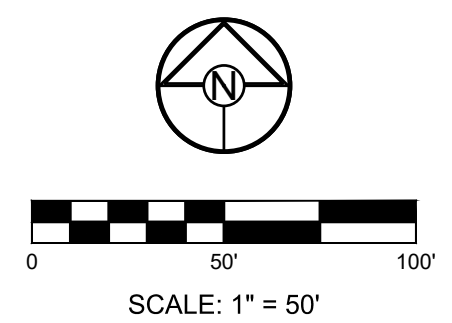
PREPARED BY:



1/31/2022

SCHLAGEL & ASSOCIATES, P.A.

**MANOR AT BAILEY FARMS, 1ST PLAT  
SANITARY MAIN EXTENSION PLANS**  
1300 SE RANSON ROAD LEE'S SUMMIT, MO



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CHECKED BY:	JLL
DATE PREPARED:	1/16/2021
PROJ. NUMBER:	21-130

SITE LAYOUT

SHEET

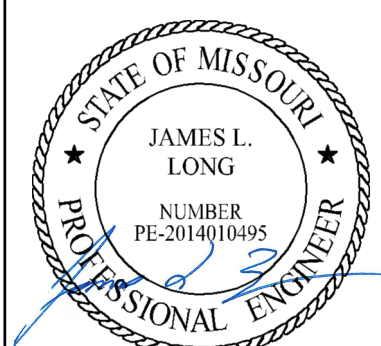
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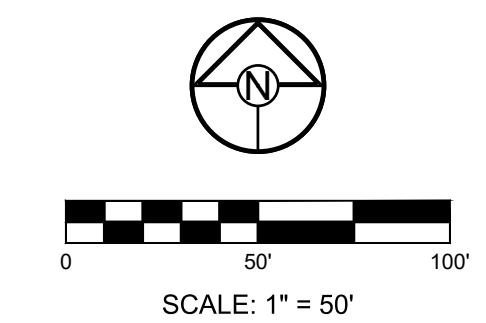
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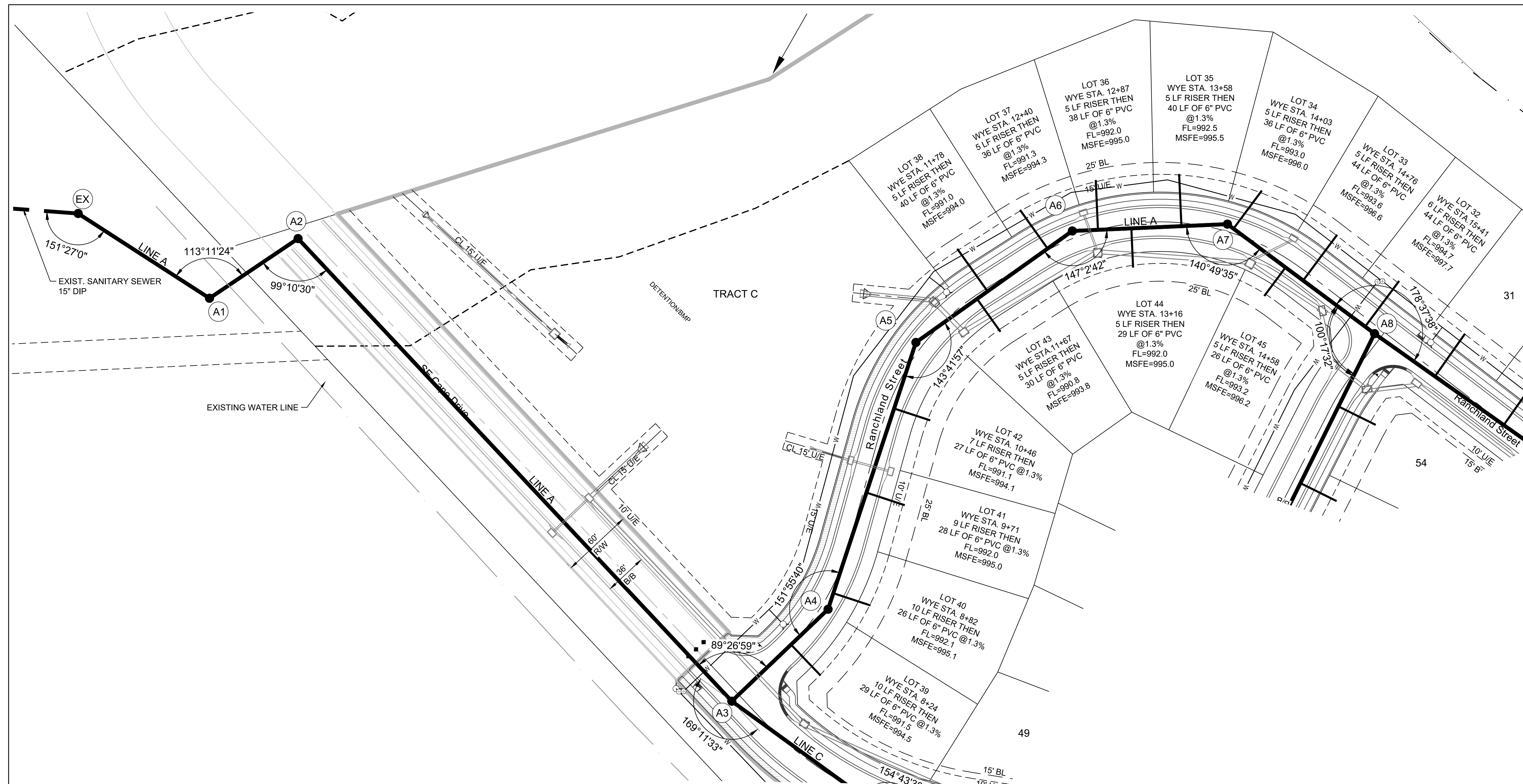
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CHECKED BY:	JLL	DATE PREPARED:	PROJ. NUMBER:
		1/16/2021	21-130

**SITE LAYOUT**



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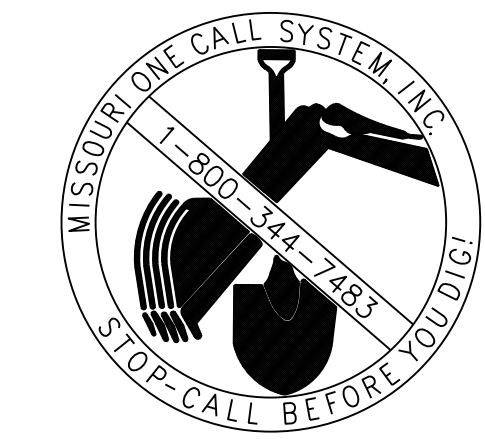


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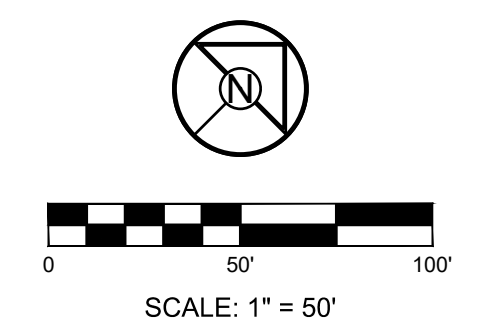


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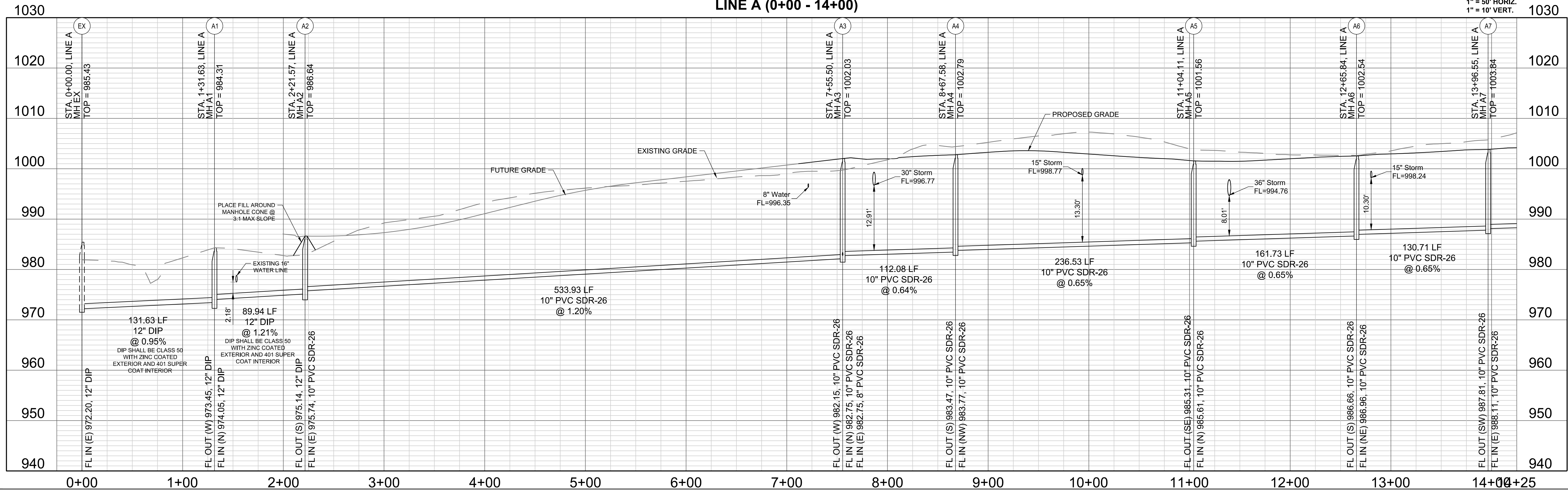
PREPARED BY:



1/31/2022  
SCHLAGEL & ASSOCIATES, P.A.



**LINE A (0+00 - 14+00)**



**MANOR AT BAILEY FARMS, FIRST PLAT**  
**SANITARY MAIN EXTENSION PLANS**  
**1300 SE RANSON ROAD LEE'S SUMMIT, MO**

REVISION DATE	DESCRIPTION
1/24/2021 <td>CITY COMMENTS</td>	CITY COMMENTS

LINE A PLAN & PROFILE (STA. 0+00 - 14+00)

SHEET  
**6**

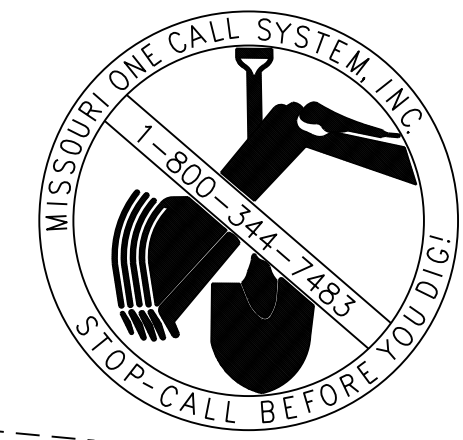
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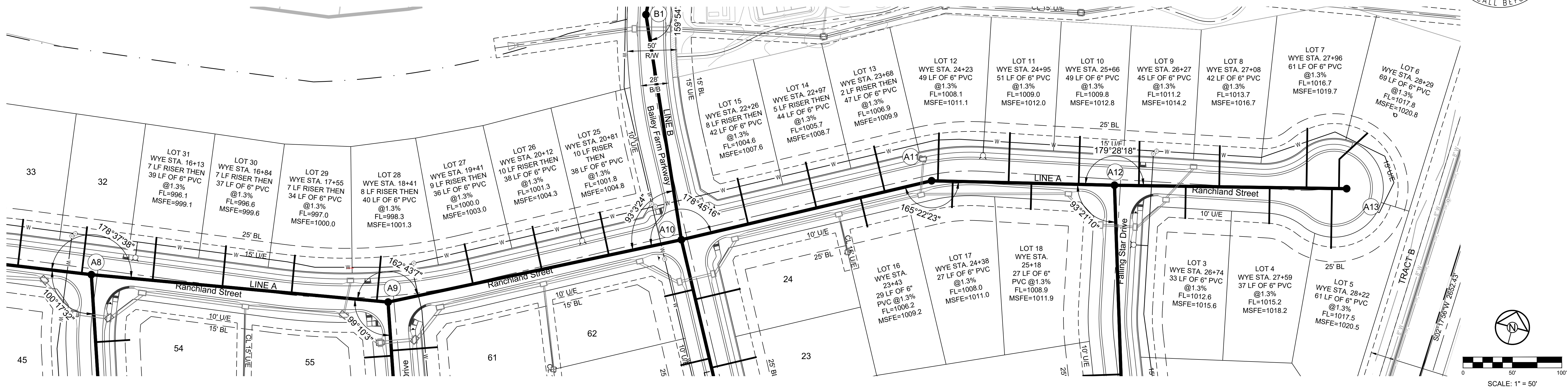
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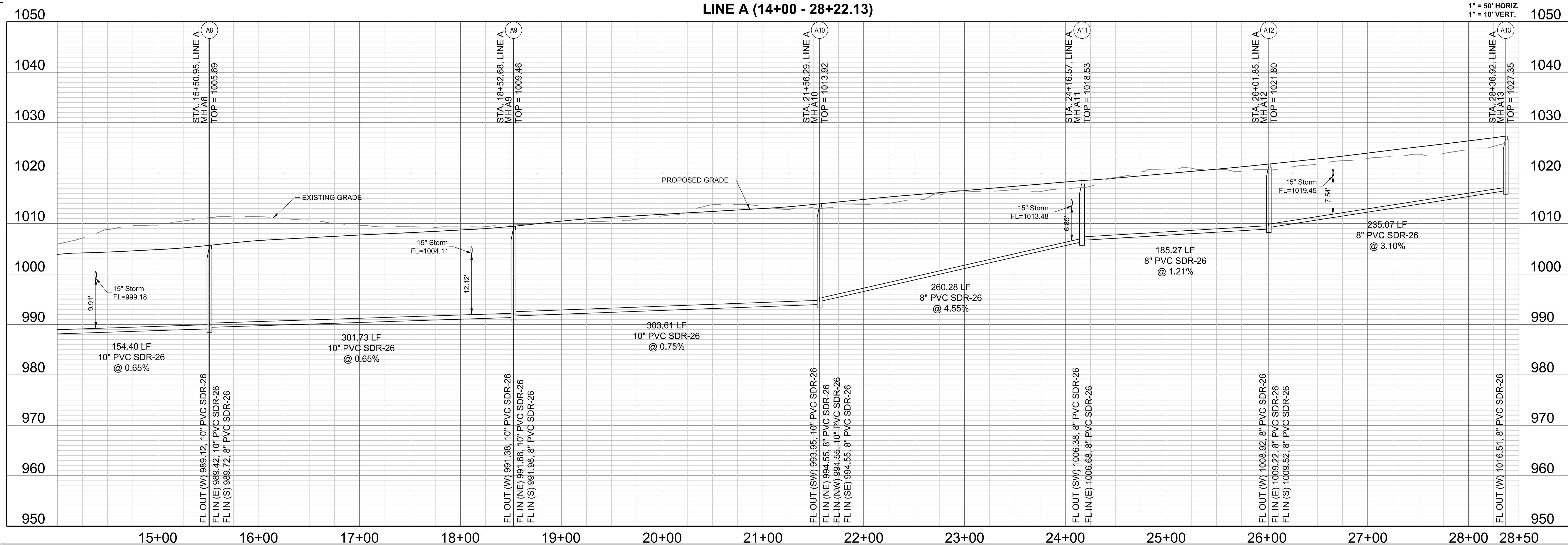
PREPARED BY:



1/31/2022  
SCHLAGEL & ASSOCIATES, P.A.



**LINE A (14+00 - 28+22.13)**



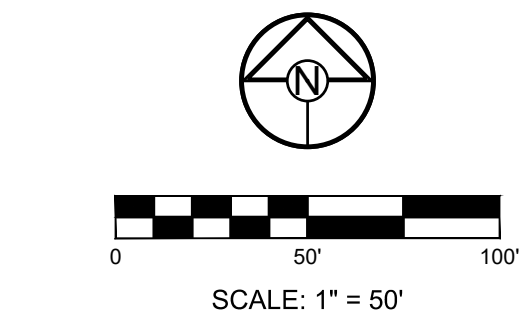
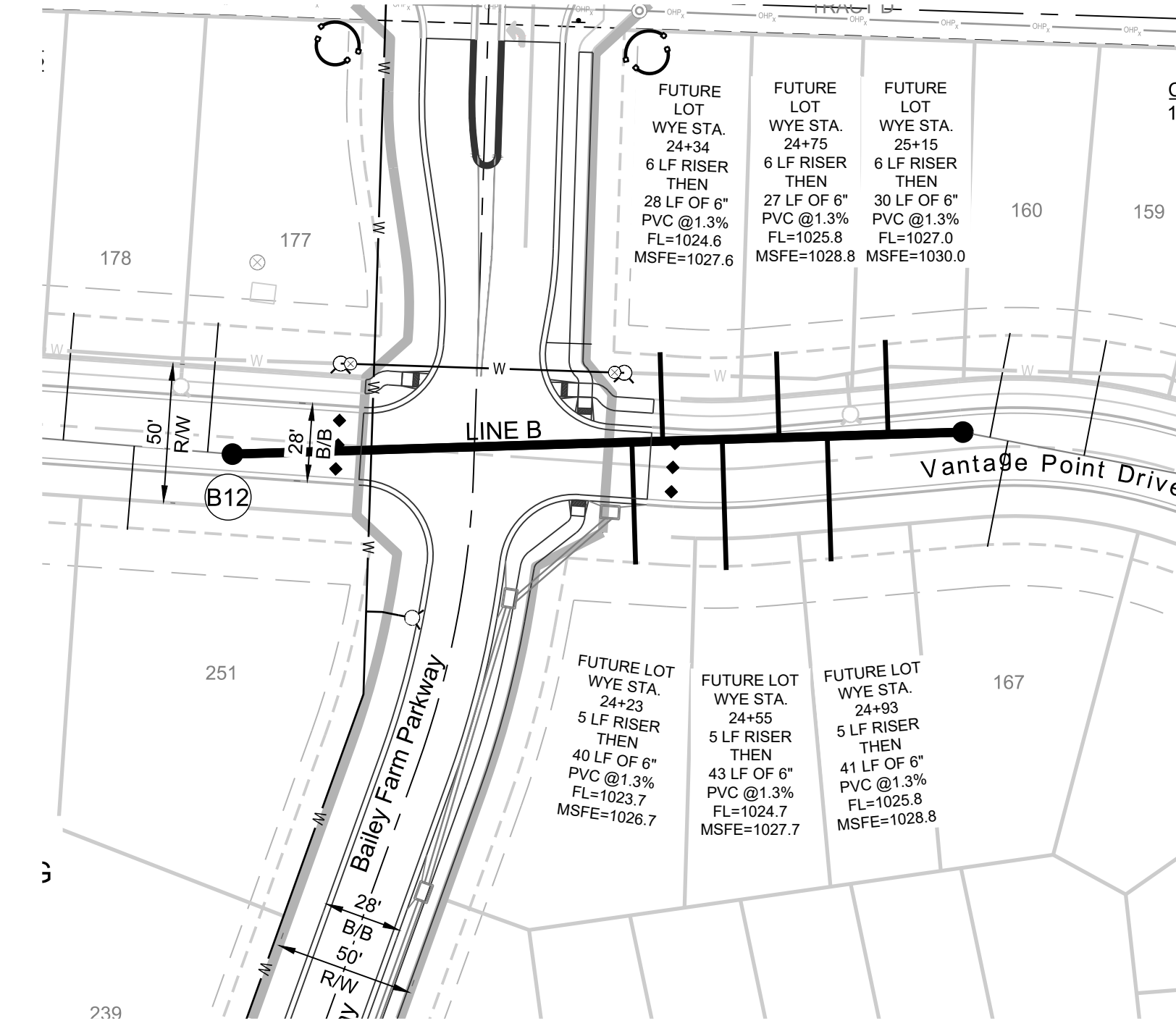
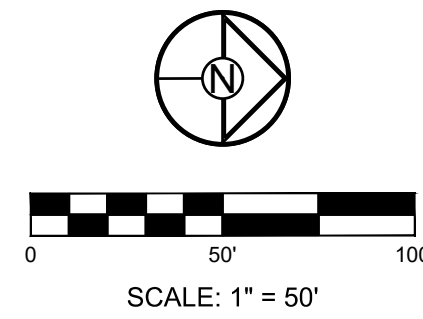
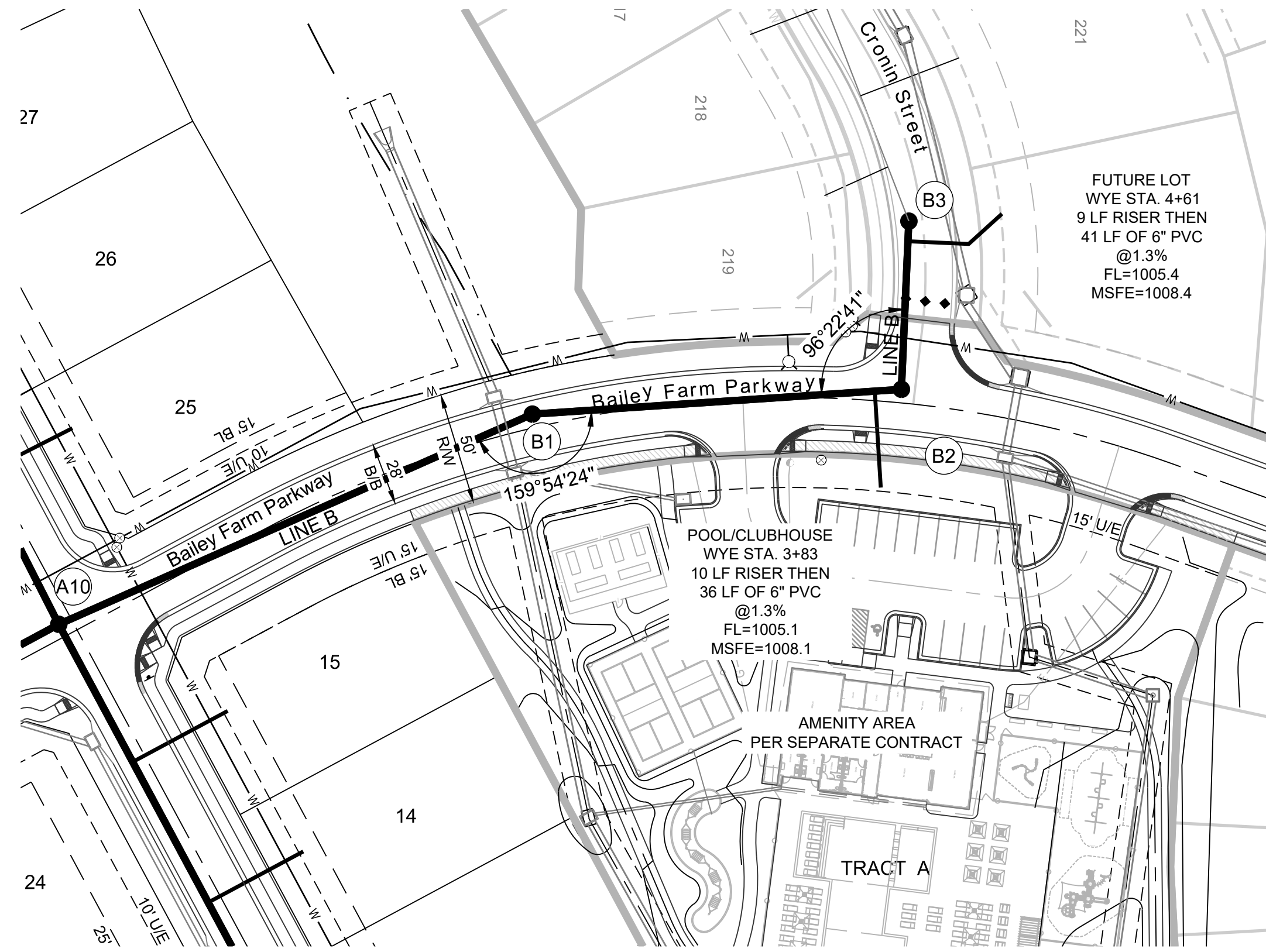
**MANOR AT BAILEY FARMS, FIRST PLAT  
SANITARY MAIN EXTENSION PLANS  
1300 SE RANSON ROAD LEE'S SUMMIT, MO**

REVISION DATE	DESCRIPTION
1/24/2021	CITY COMMENTS

DRAWN BY:	CHECKED BY:	DATE PREPARED:	PROJ. NUMBER:
NCA	JLL	01/03/2022	21-130

LINE A PLAN & PROFILE (STA. 0+00 - 14+00) (2)

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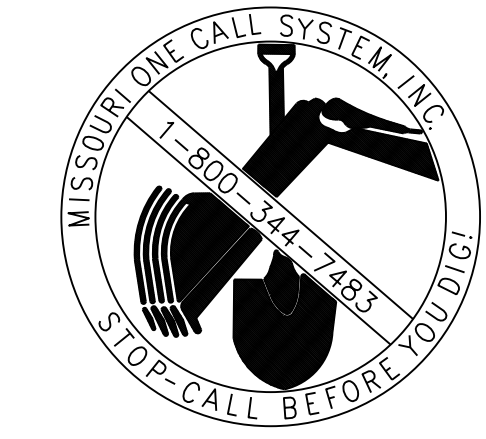
**MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:**

BM JA-45, IS A KC METRO ALUMINUM GRS DISK SET IN CONCRETE AND ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE RANSON ROAD. IT IS STAMPED JA45, 1987.

ELEV. = 1046.25

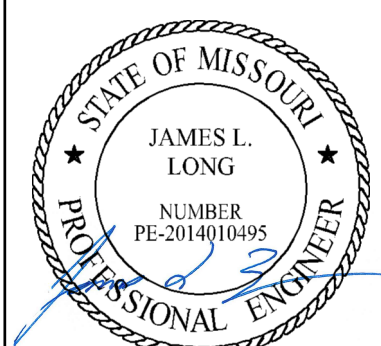
**GENERAL NOTES:**

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- ALL SERVICE LINES ARE TO BE 90° TO THE MAIN UNLESS OTHERWISE NOTED.
- ALL SANITARY SEWER MANHOLES ARE 4' DIAMETER UNLESS OTHERWISE NOTED:



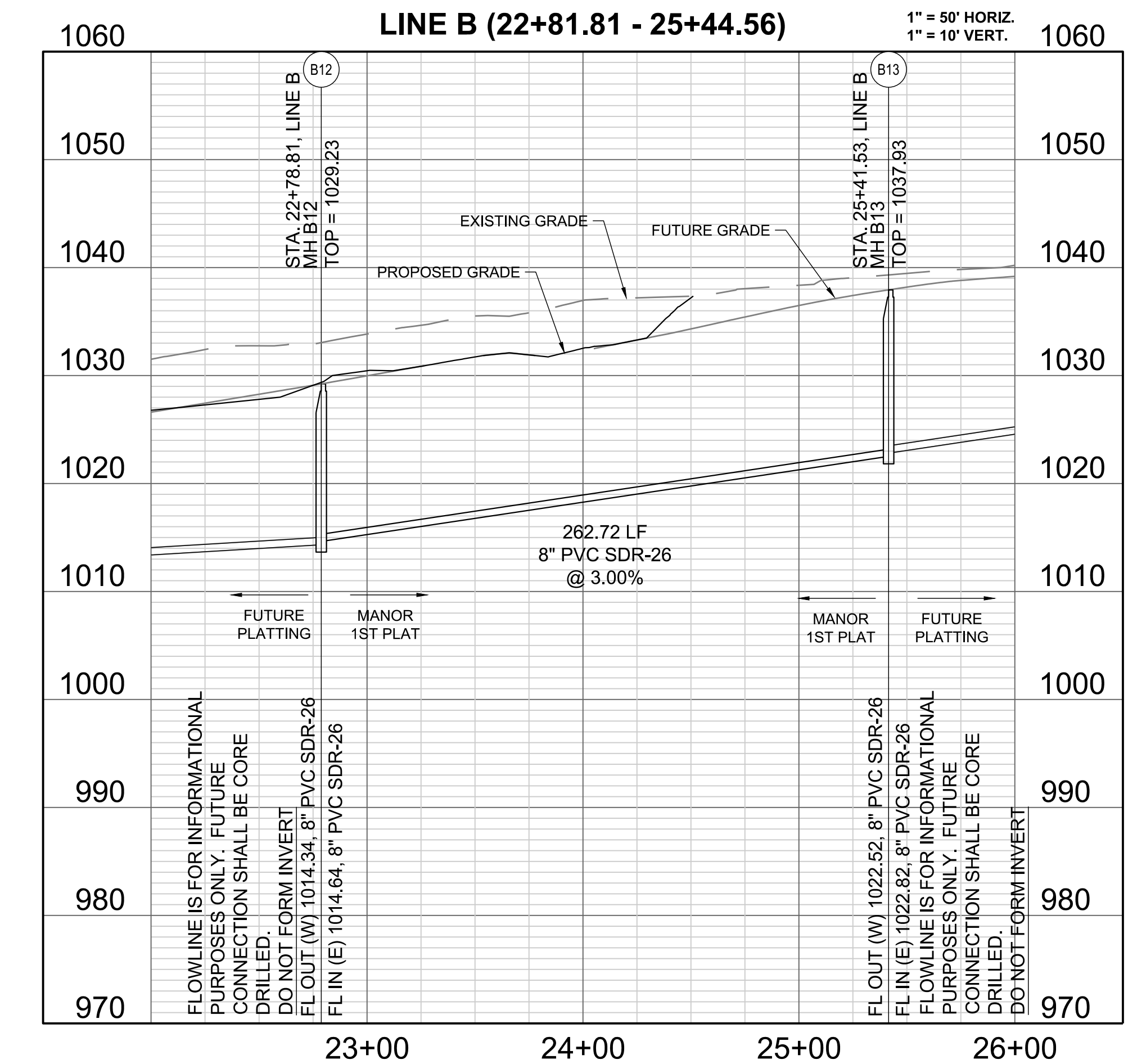
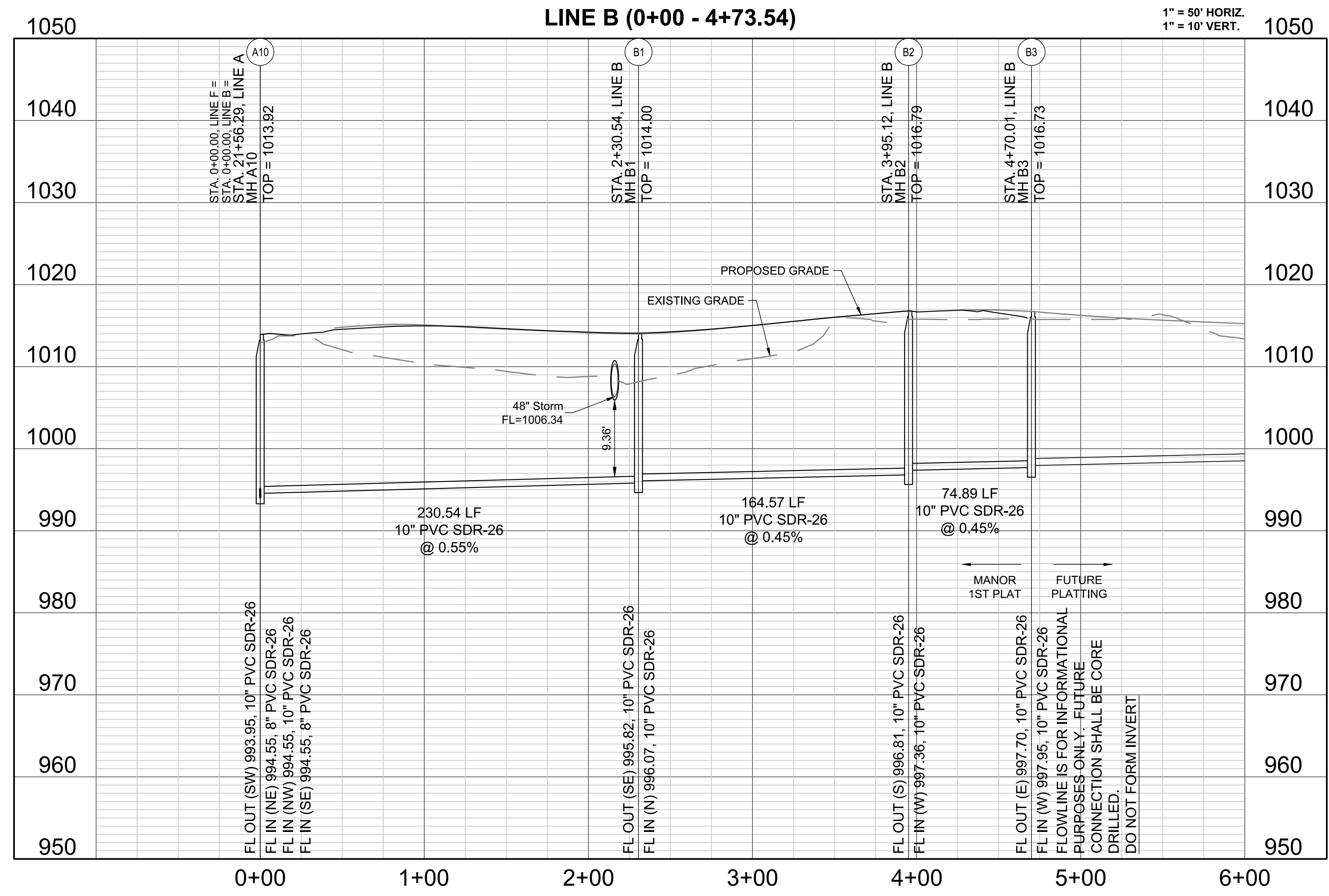
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PREPARED BY:



1/31/2022  
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**MANOR AT BAILEY FARMS, FIRST PLAT  
SANITARY MAIN EXTENSION PLANS  
1300 SE RANSON ROAD LEE'S SUMMIT, MO**



REVISION DATE	DESCRIPTION
1/24/2021	CITY COMMENTS

**LINE B PLAN & PROFILE**

SHEET  
**8**

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**MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:**

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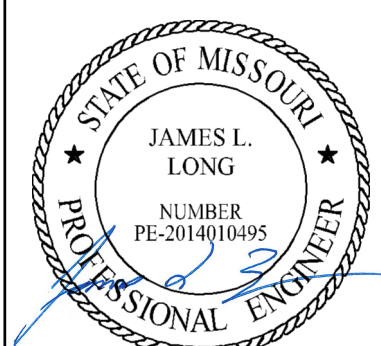
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**GENERAL NOTES:**

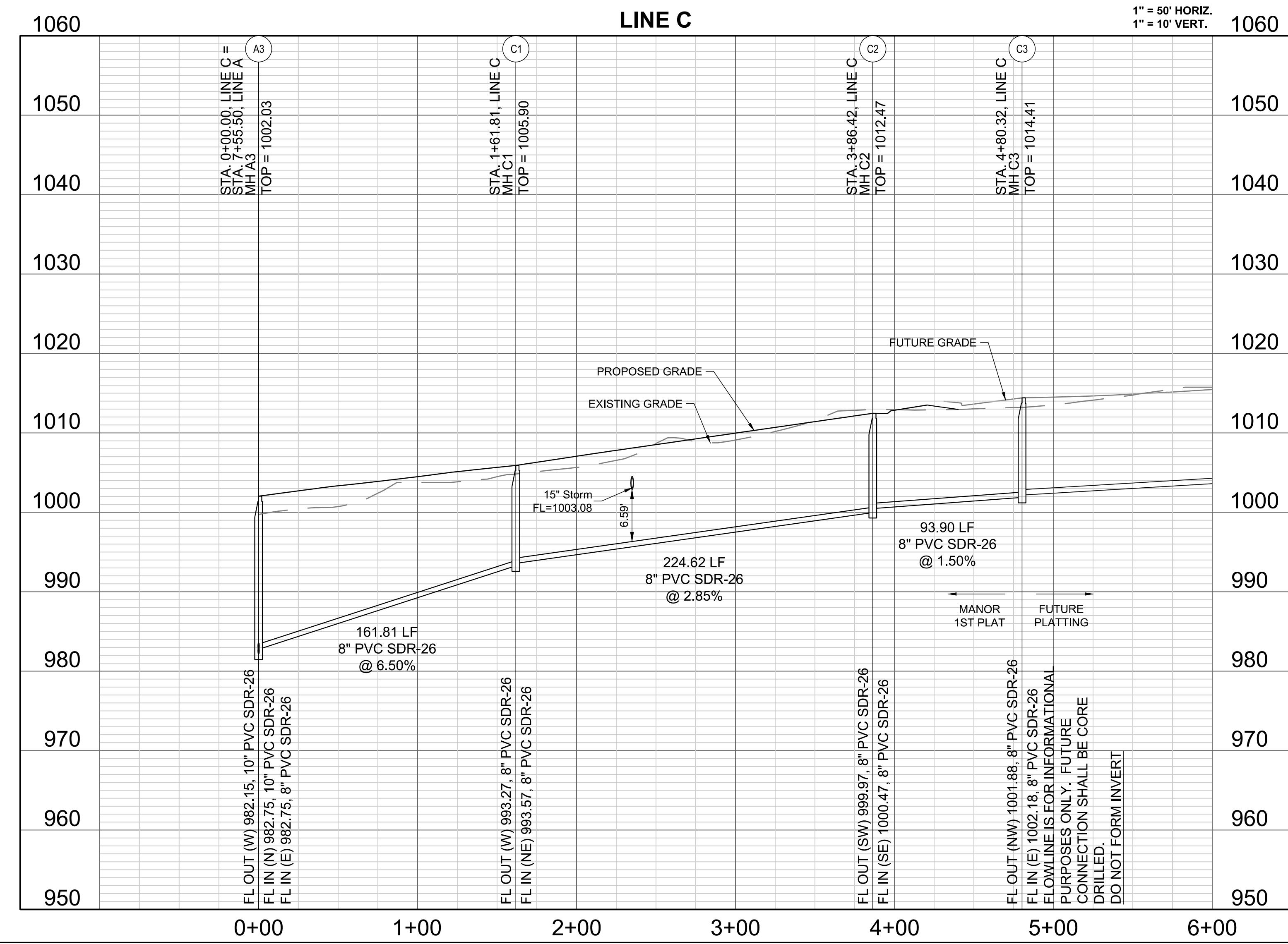
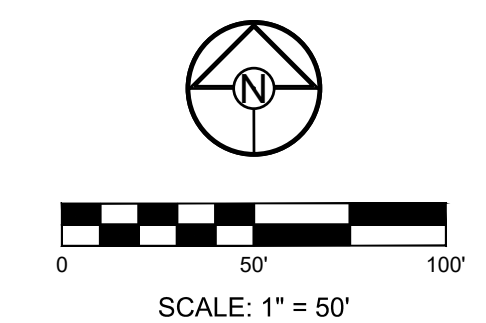
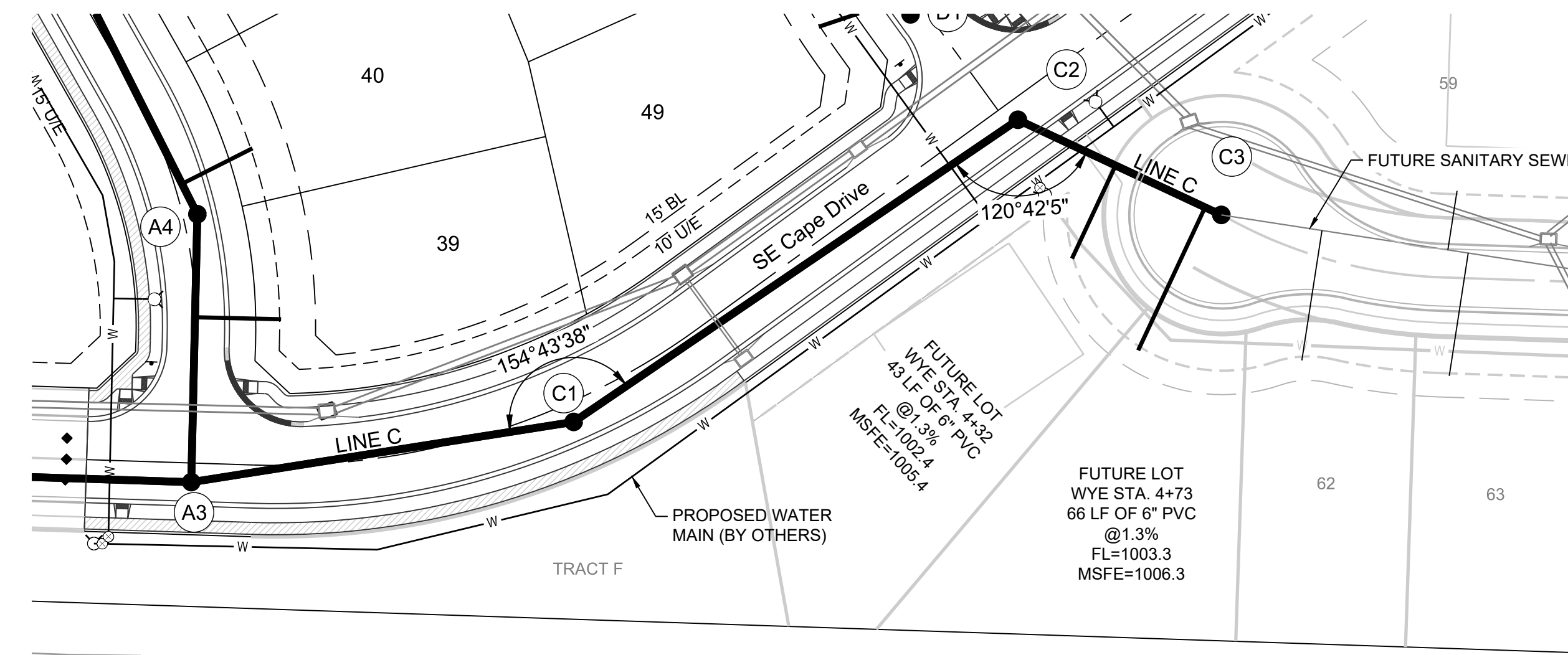
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NOTE:  
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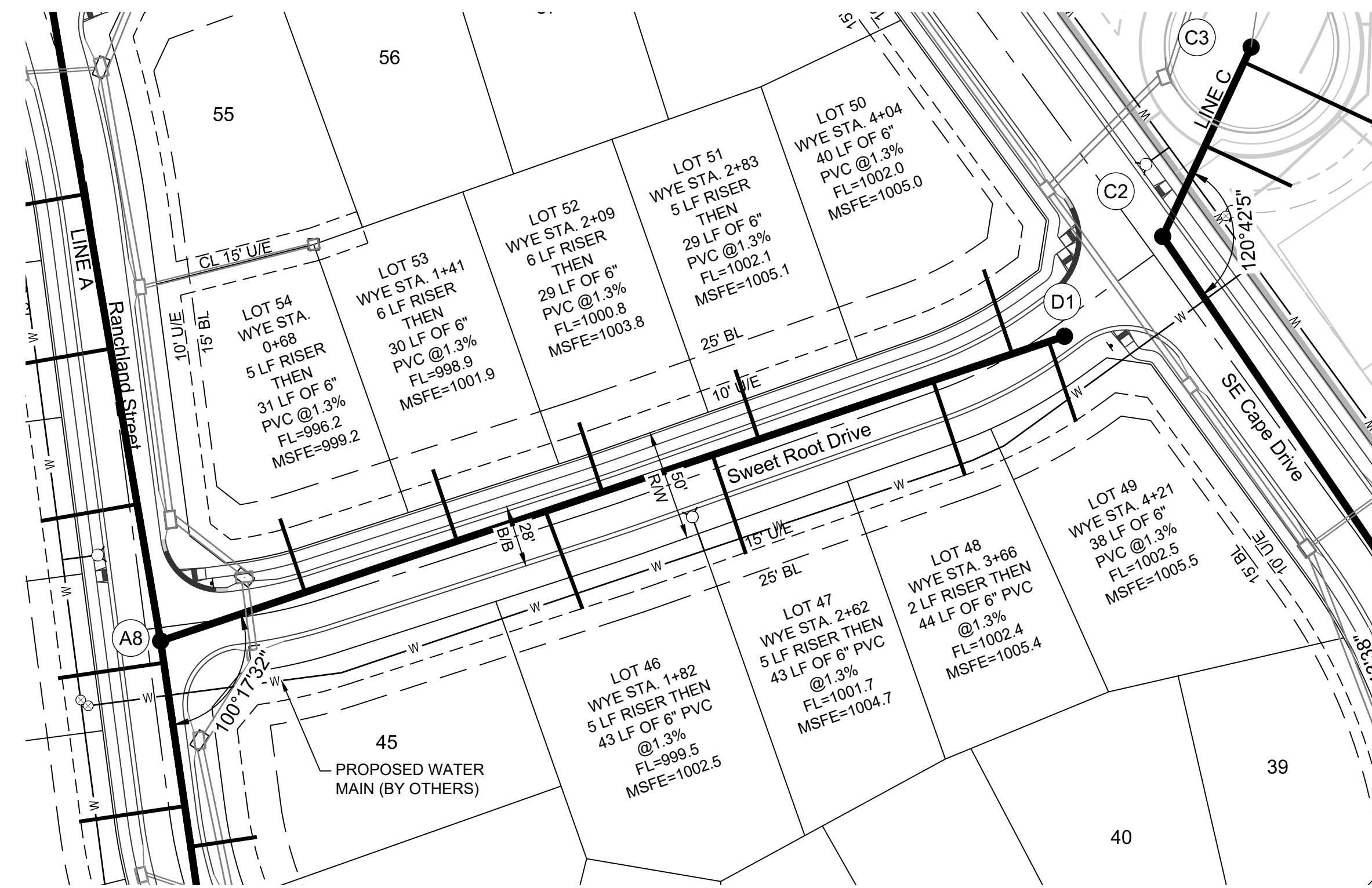
MANOR AT BAILEY FARMS, FIRST PLAT  
 SANITARY MAIN EXTENSION PLANS  
 1300 SE RANSON ROAD LEE'S SUMMIT, MO

REVISION DATE	DESCRIPTION
1/24/2021	CITY COMMENTS

LINE C PLAN & PROFILE

SHEET  
**9**

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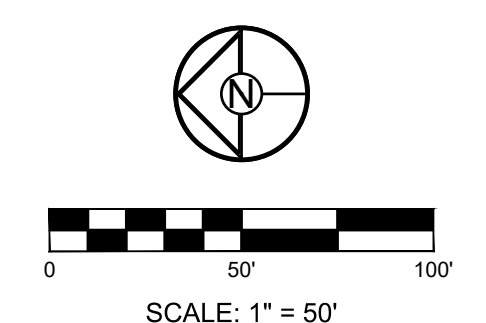
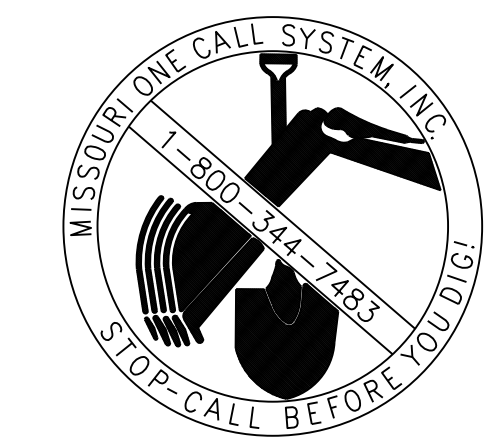
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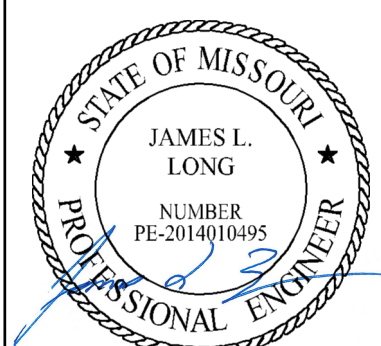
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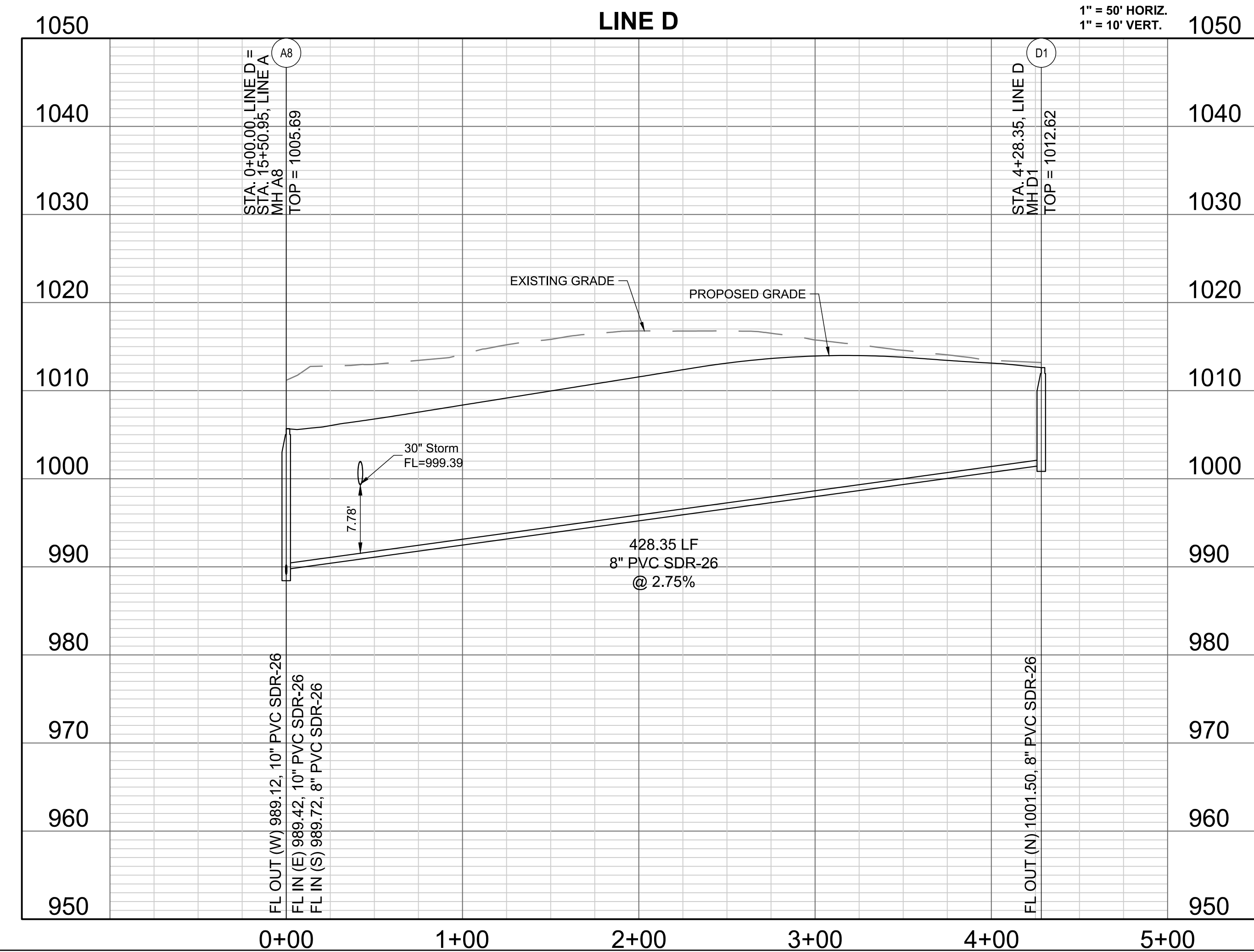
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1/31/2022  
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MANOR AT BAILEY FARMS, FIRST PLAT  
SANITARY MAIN EXTENSION PLANS  
1300 SE RANSON ROAD LEE'S SUMMIT, MO



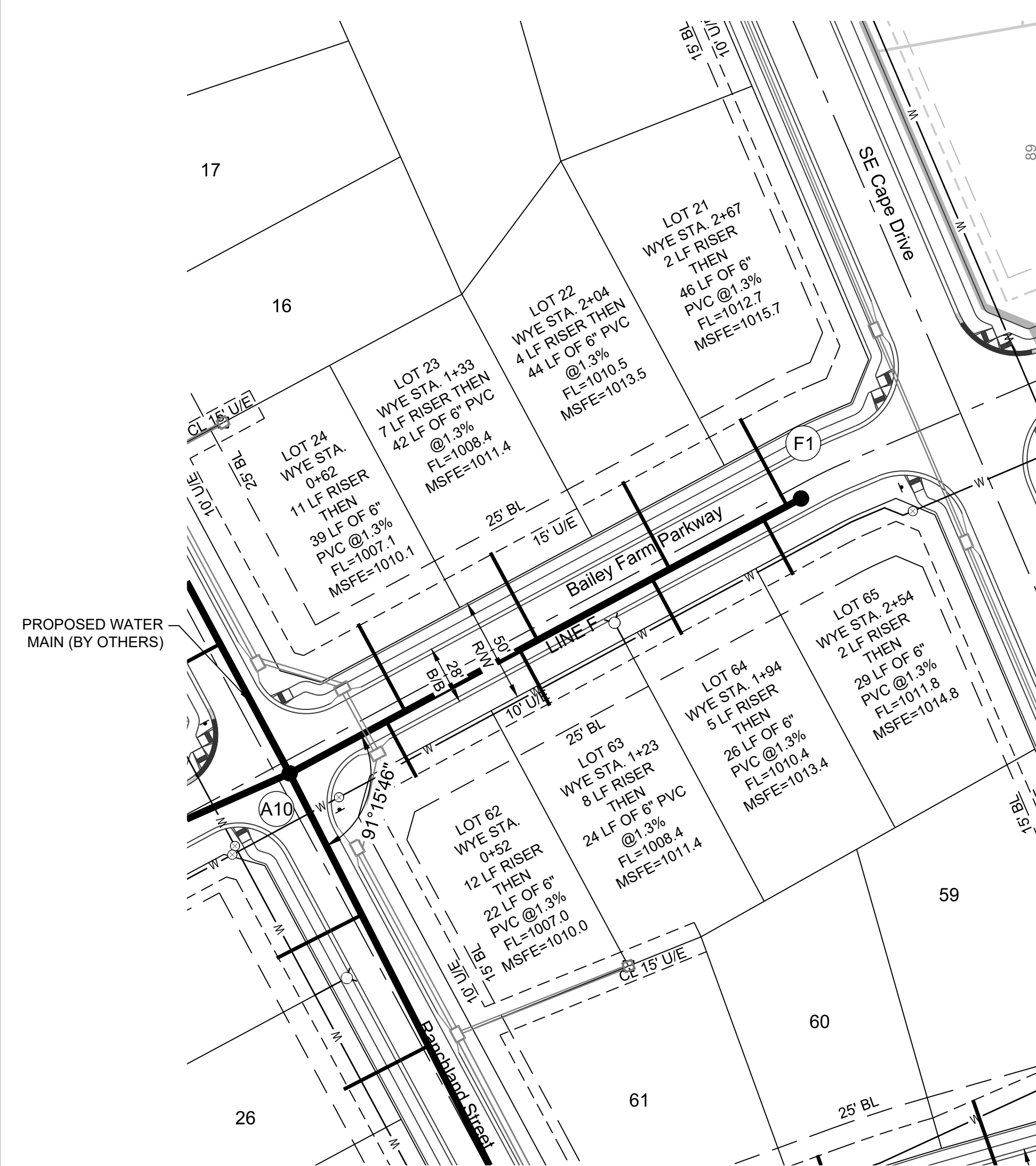
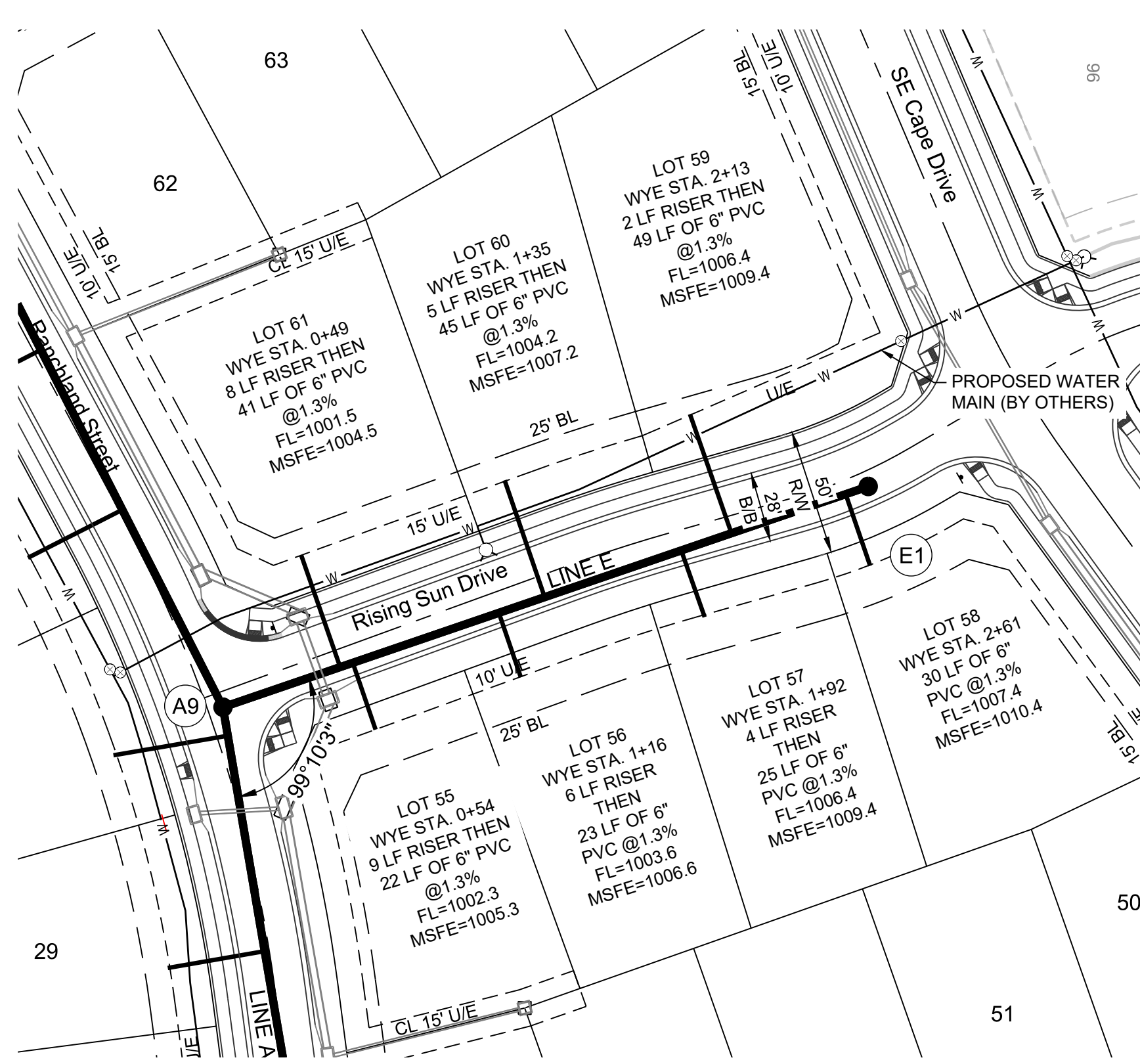
REVISION DATE	DESCRIPTION
1/24/2021	CITY COMMENTS

DRAWN BY: NCA	CHECKED BY: JLL	DATE PREPARED: 01/05/2022	PROJ. NUMBER: 21-130
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LINE D PLAN & PROFILE

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**10**

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**MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:**

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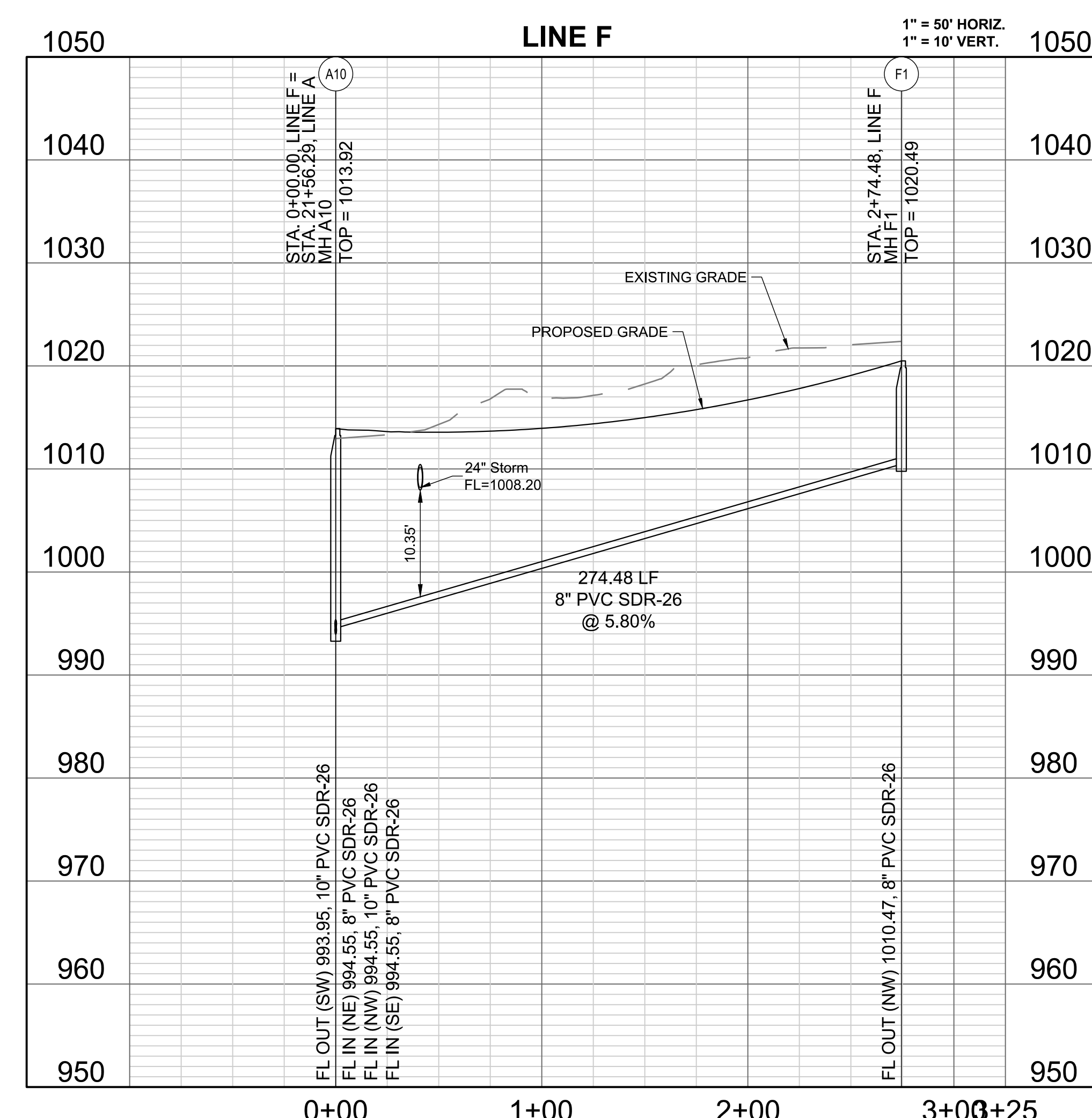
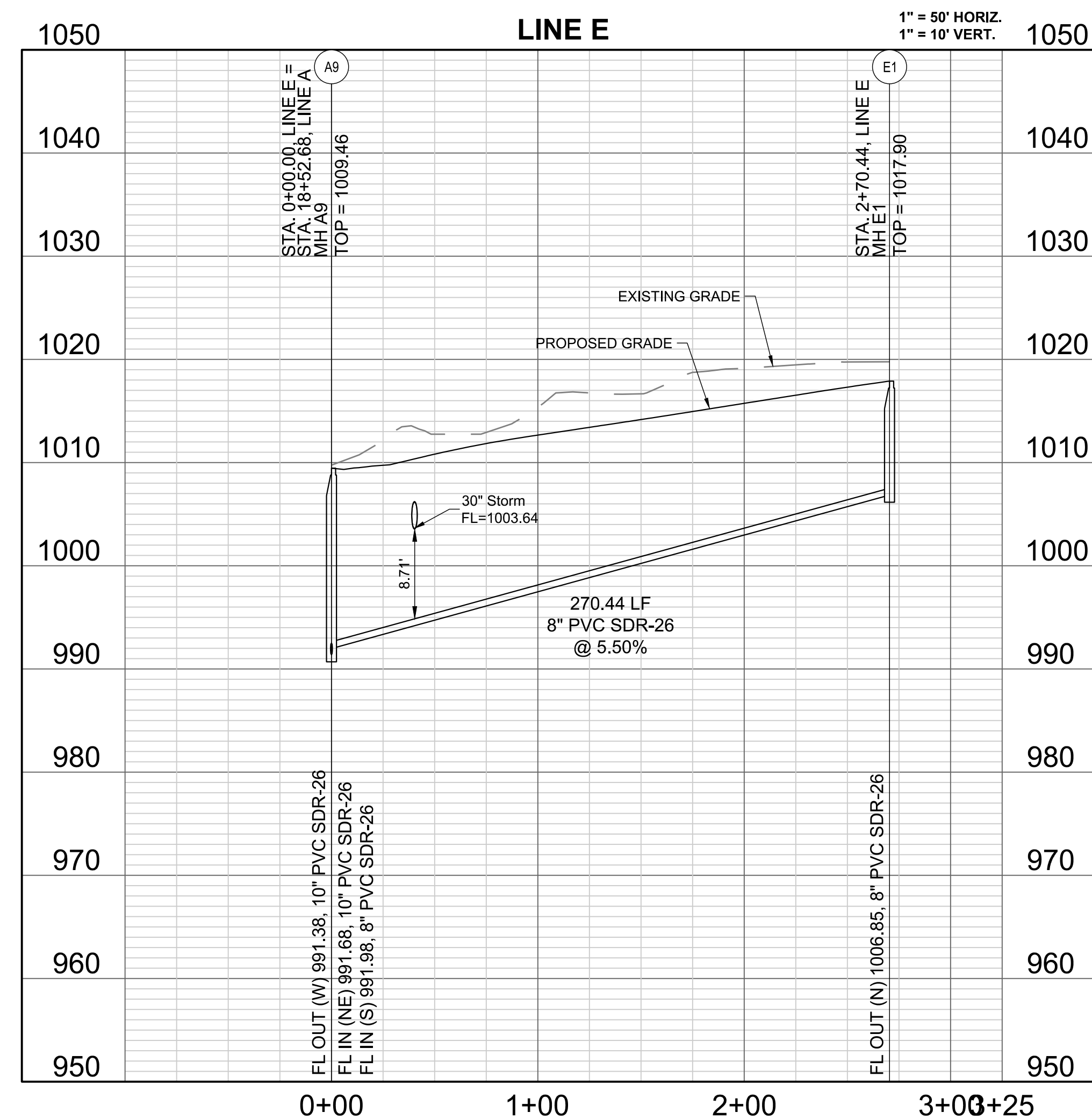
PREPARED BY:



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MANOR AT BAILEY FARMS, FIRST PLAT  
SANITARY MAIN EXTENSION PLANS  
1300 SE RANSON ROAD LEE'S SUMMIT, MO

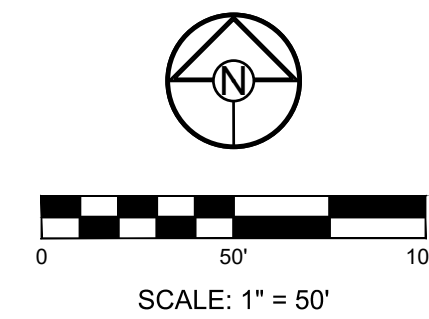
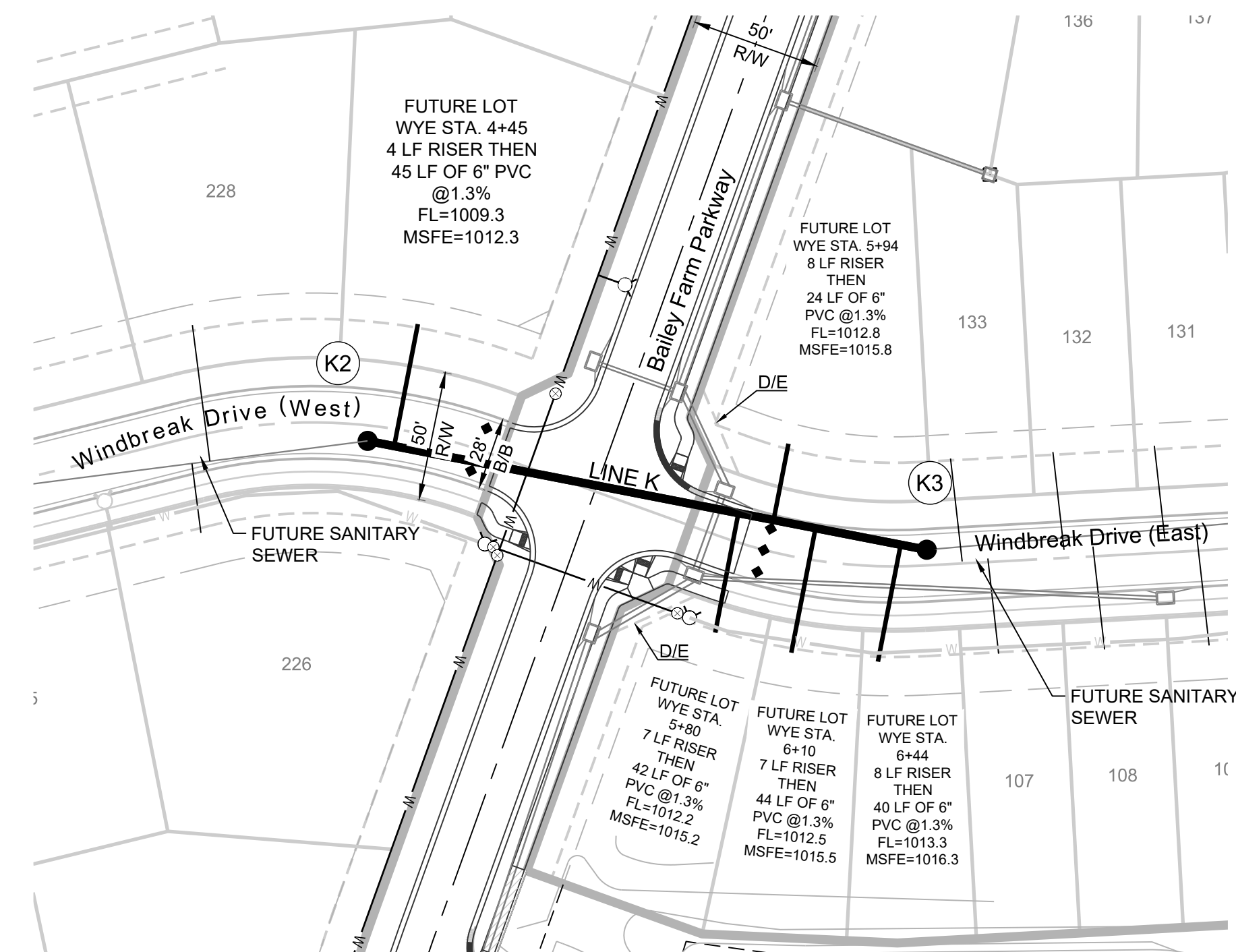
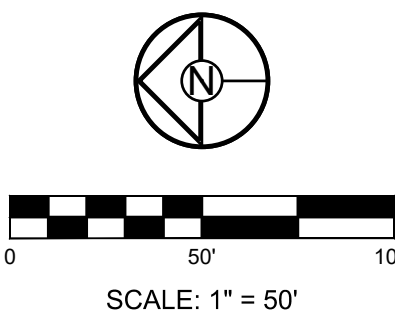
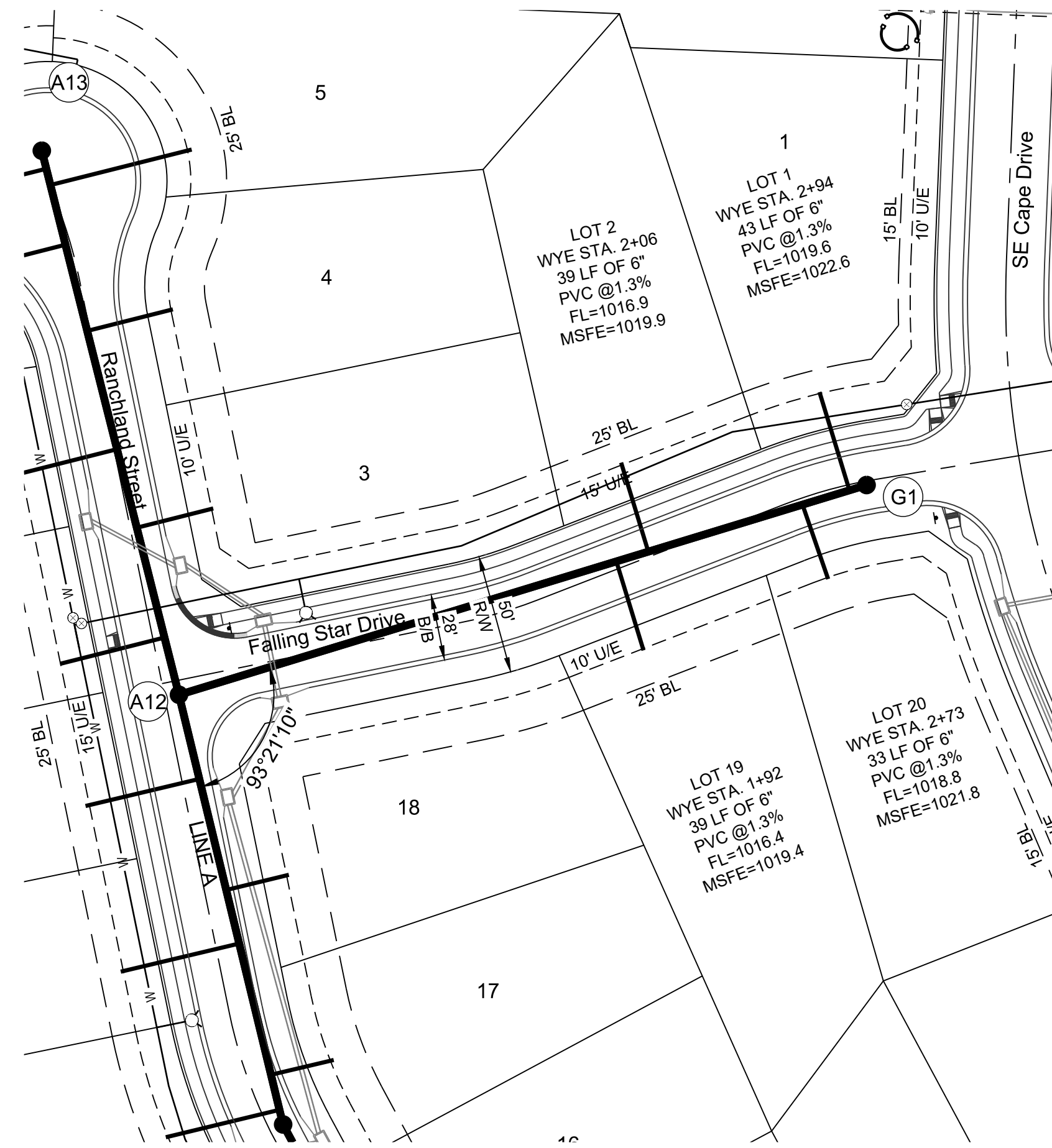


REVISION DATE	DESCRIPTION
1/24/2021	CITY COMMENTS

LINE E & F PLAN & PROFILE

SHEET  
**11**

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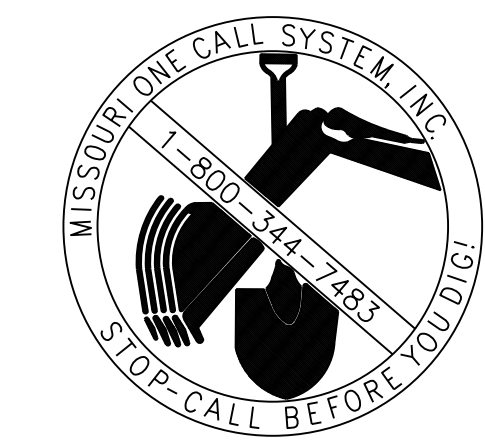
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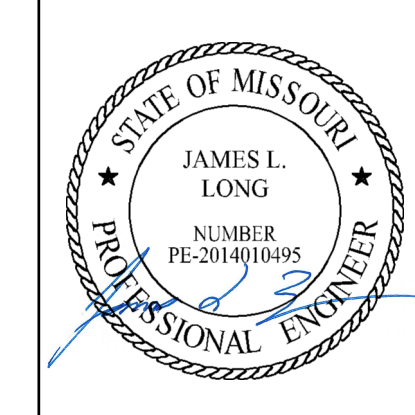
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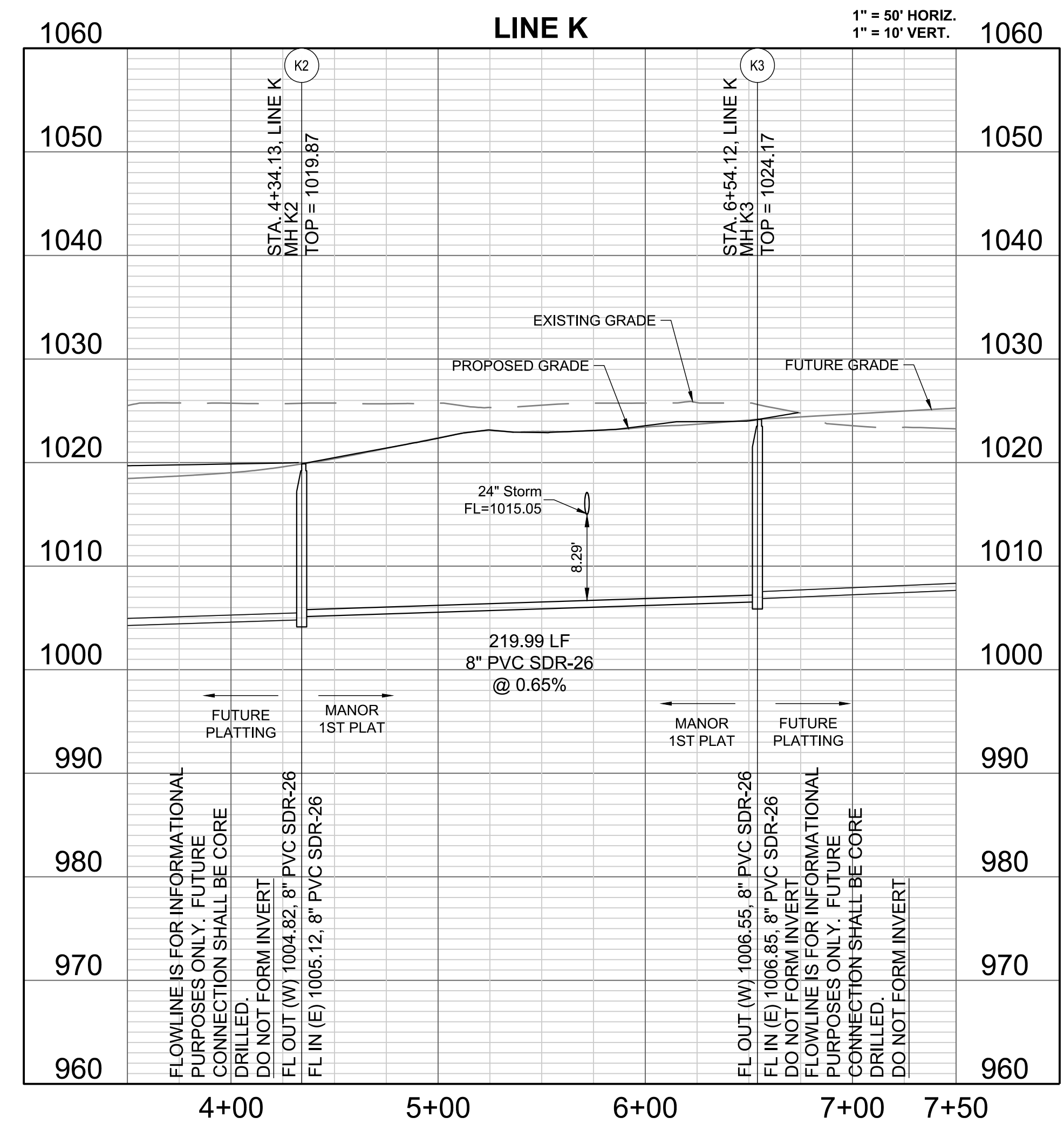
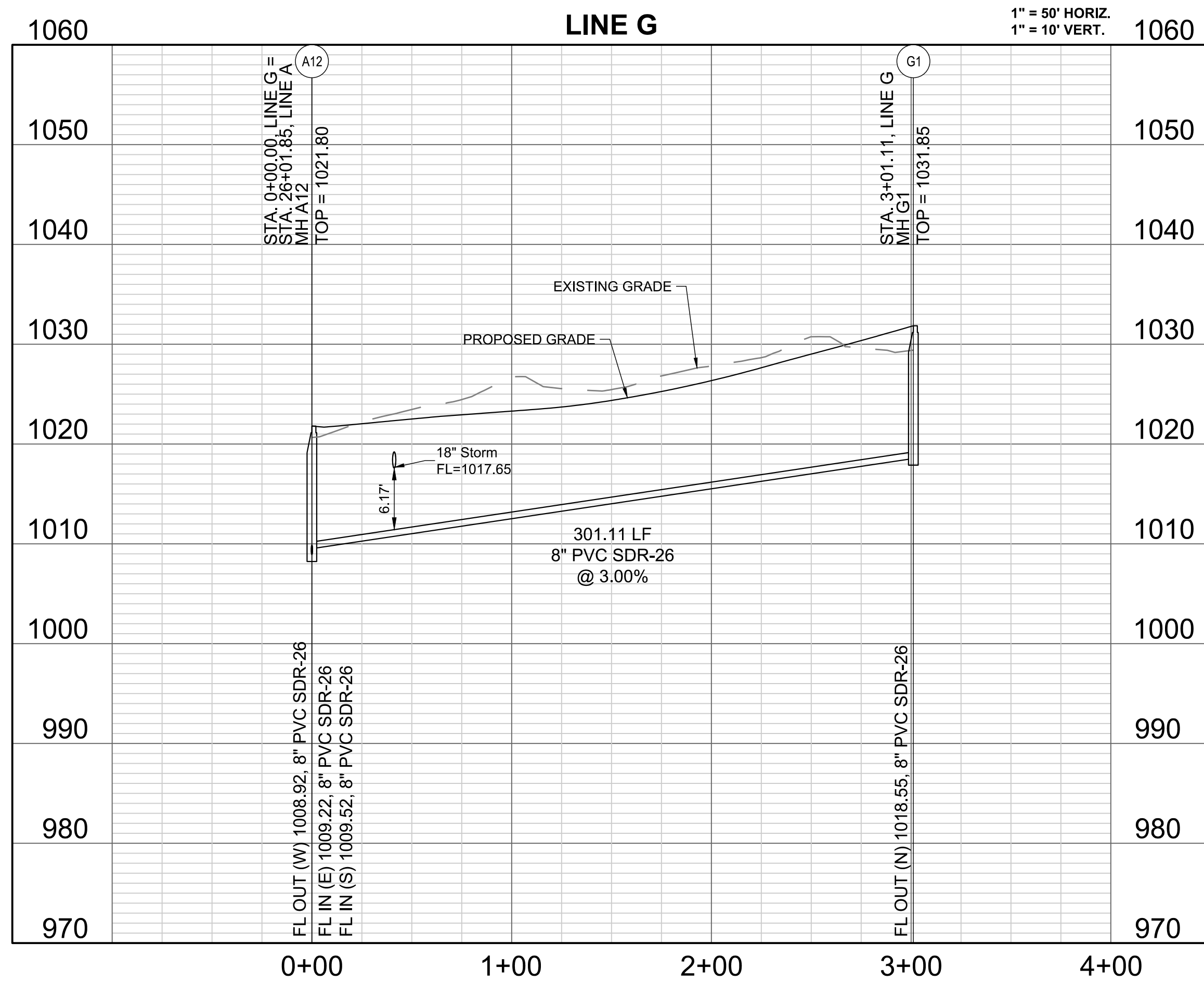
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PREPARED BY:



1/31/2022  
SCHLAGEL & ASSOCIATES, P.A.

**MANOR AT BAILEY FARMS, FIRST PLAT  
SANITARY MAIN EXTENSION PLANS**  
1300 SE RANSON ROAD LEE'S SUMMIT, MO



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REVISION DATE	DESCRIPTION
1/24/2021	CITY COMMENTS

LINE G & K PLAN  
& PROFILE

SHEET  
**12**

**MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:**

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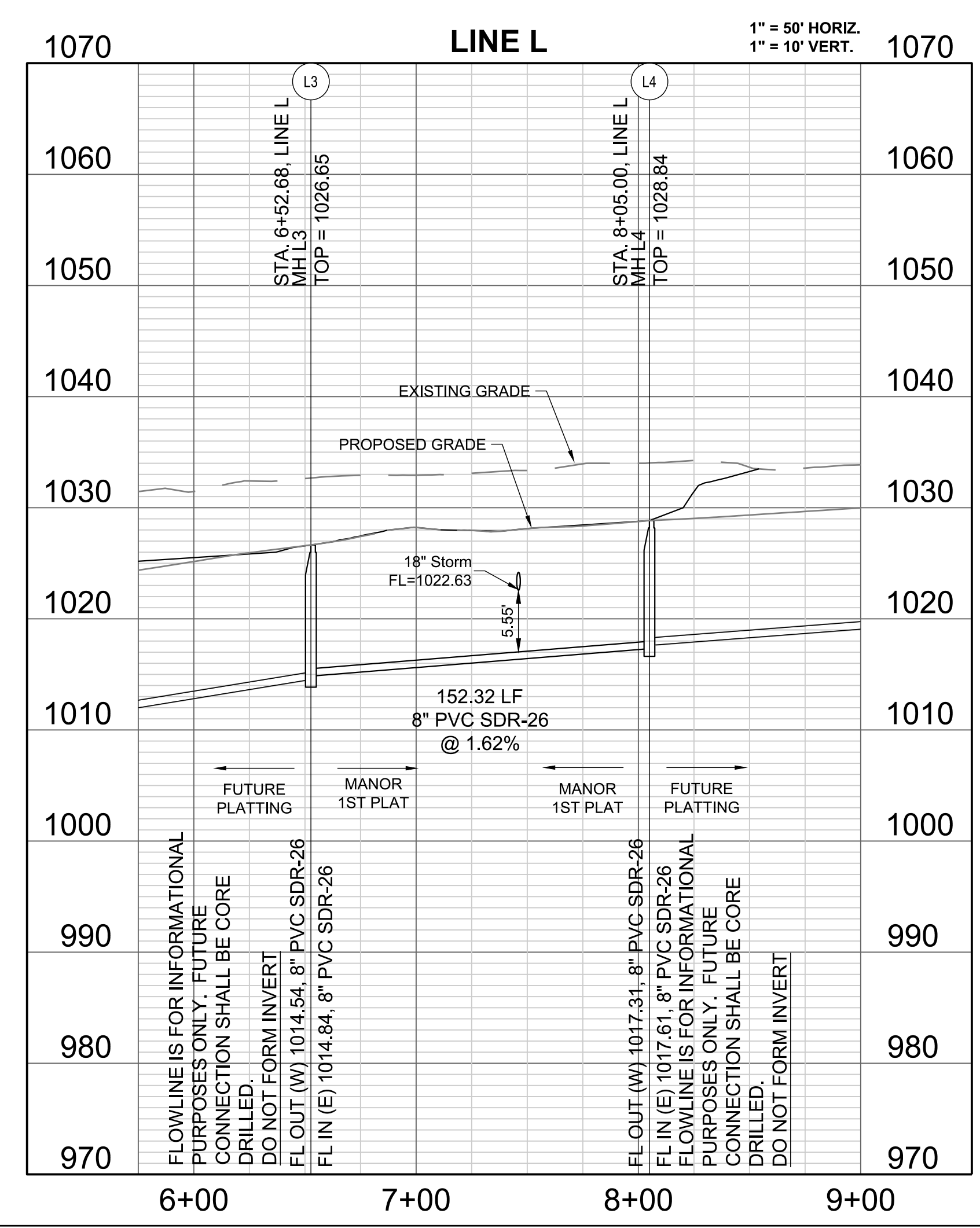
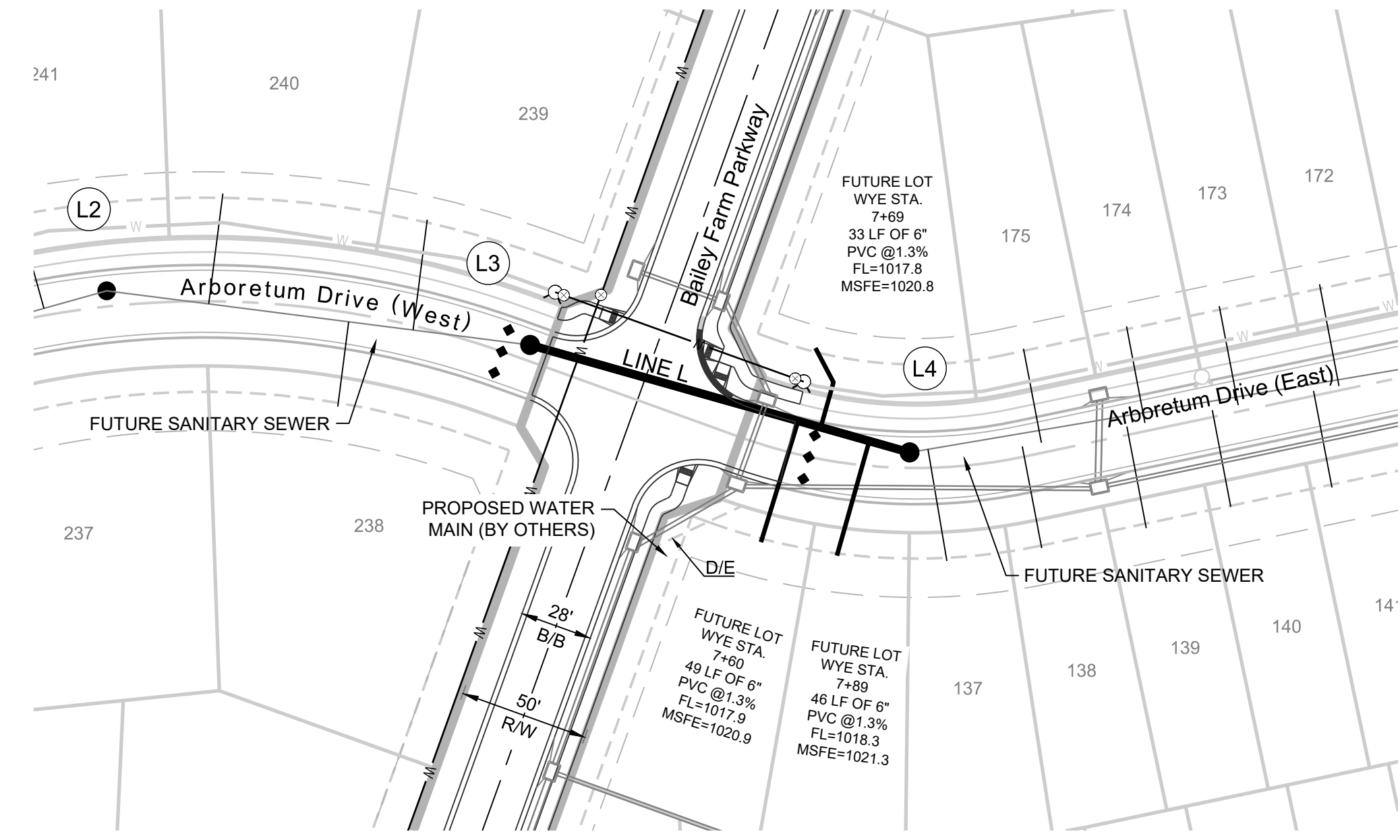
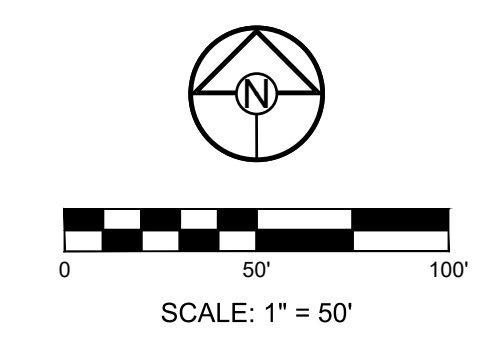
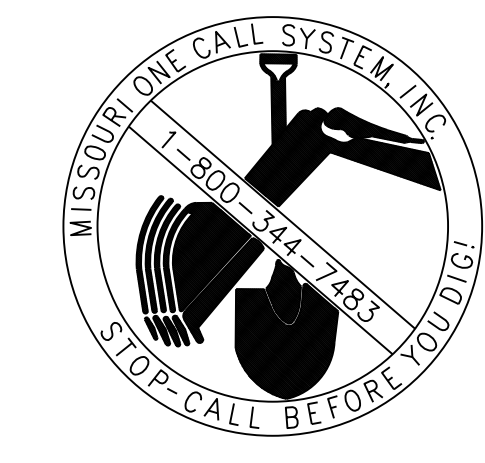
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1/31/2022  
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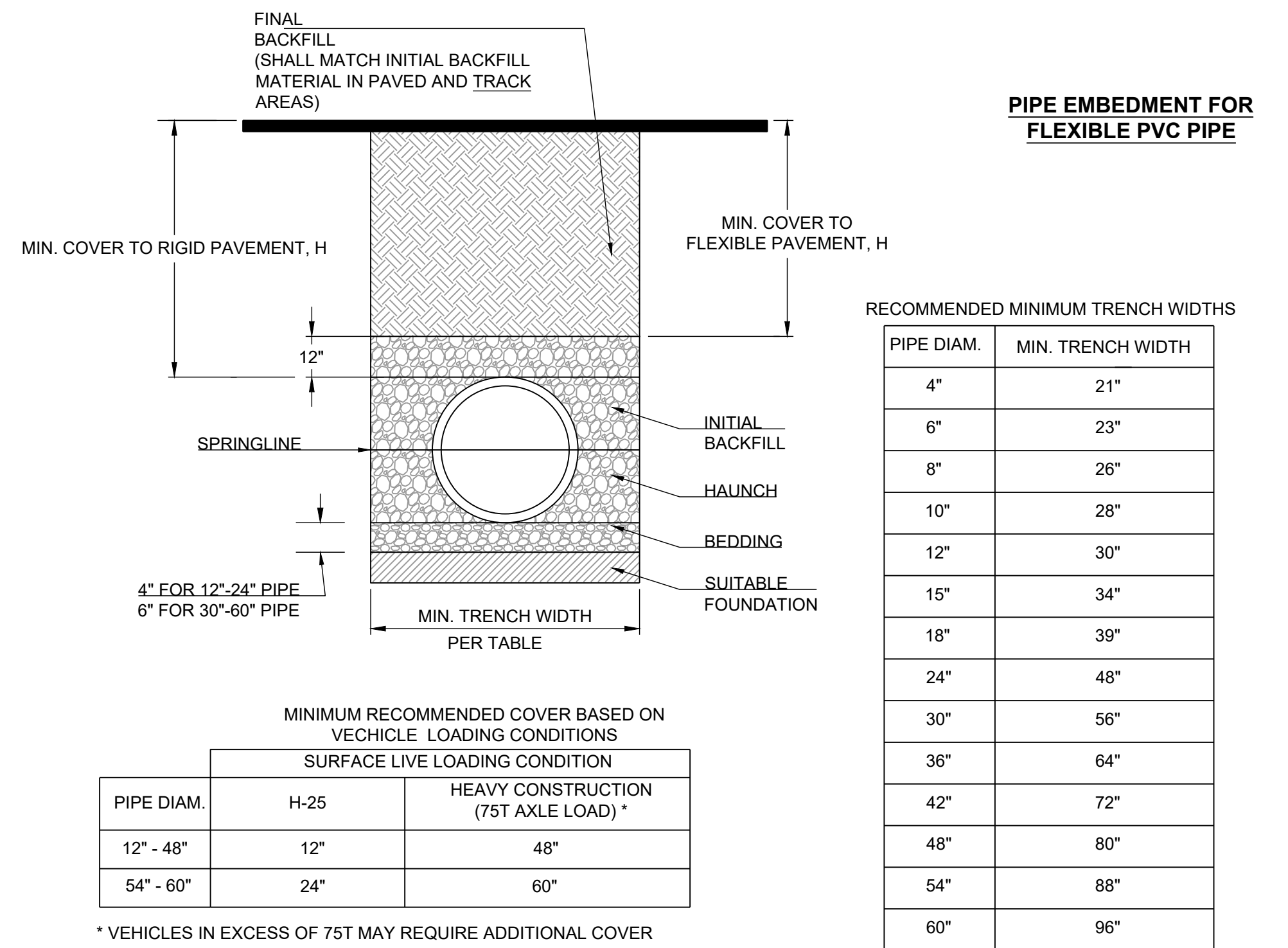
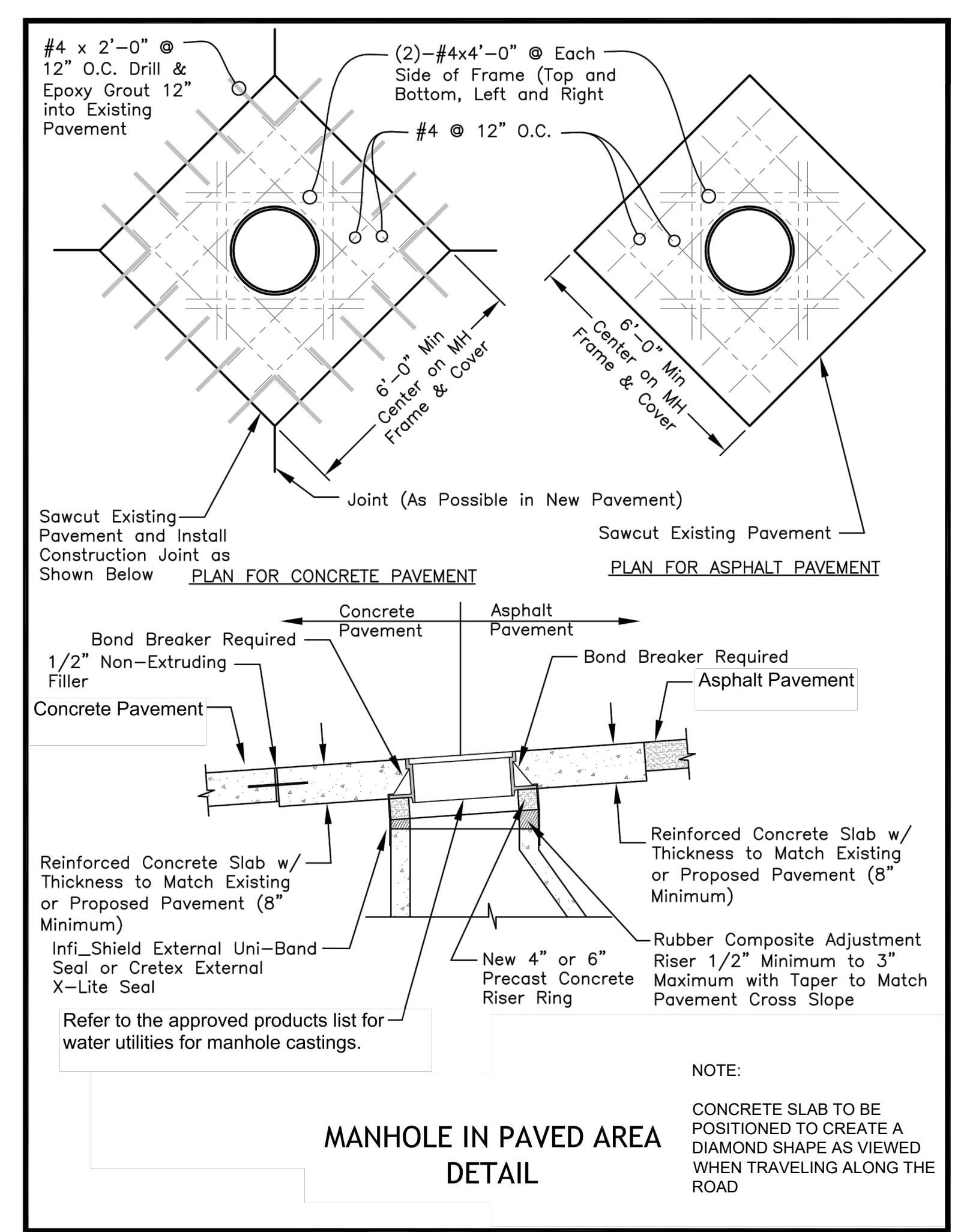
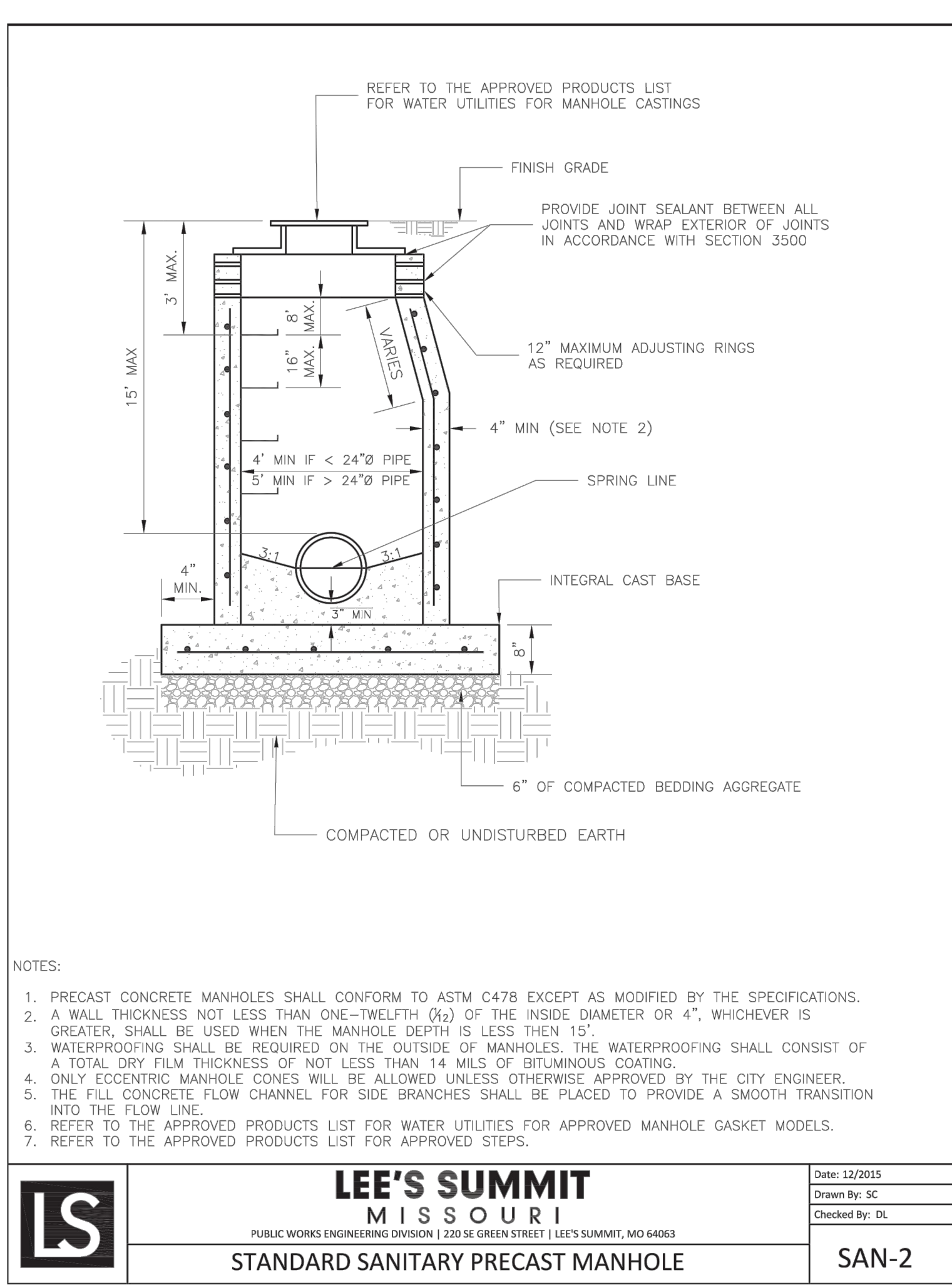
**MANOR AT BAILEY FARMS, FIRST PLAT**  
**SANITARY MAIN EXTENSION PLANS**  
**1300 SE RANSON ROAD LEE'S SUMMIT, MO**

REVISION DATE	DESCRIPTION
1/24/2021	CITY COMMENTS

LINE L PLAN & PROFILE

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REVISION DATE	DATE	DESCRIPTION



- NOTES:**
- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION
  - MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
  - FOUNDATION:** WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
  - BEDDING:** SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-900mm).
  - INITIAL BACKFILL:** SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
  - MINIMUM COVER:** MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATON. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

