

THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT

LOTS 20-37 & TRACTS E-F STREET AND STORM CONSTRUCTION PLANS

Section 8, Township 48 North, Range 31 West
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

CONSTRUCTION AND DESIGN NOTES:

STREET & STORM SEWERS:

1 ~ STREET PAVEMENT SHALL CONSIST OF TYPE CG-2 CURBS WITH PAVEMENT PER TABLE LS-2 OF THE LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL

RESIDENTIAL LOCAL STREET SEE BELOW FOR TYPICAL SECTION.
OPTION 1) 4" TYPE 5 ASPHALT BASE AND 2" TYPE 5 or 6 ASPHALT SURFACE OVER A 6" MoDOT TYPE 5 BASE AND A SUBGRADE MIXTURE OF 6" FLY ASH SUBGRADE IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.
OPTION 2) 4" TYPE 5 ASPHALT BASE AND 2" TYPE 5 or 6 ASPHALT SURFACE OVER 10" MoDOT TYPE 5 BASE OVERTOP A BIAXIAL GEOGRID PER THE CITY'S APPROVED PRODUCT LIST.
2 ~ STORM SEWER PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) AS APPROVED BY CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.

3 ~ JUNCTION BOXES SHALL BE PER CITY OF LEE'S SUMMIT STANDARD DRAWING NO. STM-3. FIELD INLETS SHALL BE PER CITY OF LEE'S SUMMIT STANDARD DRAWING STM-2. TOEWALLS SHALL BE PER CITY OF LEE'S SUMMIT DRAWING NO. STM-5. ROCK LINING AND RIP RAP SHALL BE PER CITY OF LEE'S SUMMIT.

GENERAL NOTES:

1 ~ ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
2 ~ ALL REQUIRED EASEMENTS WITHIN THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR ON THE FINAL PLAT.
3 ~ ANY REQUIRED EASEMENT LOCATED OUTSIDE OF THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR BY SEPARATE INSTRUMENT PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS.
4 ~ THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.
5 ~ THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH THE IMPROVEMENTS PROPOSED BY THESE PLANS AND SITE CONDITIONS.
6 ~ THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND OBTAIN THE APPROPRIATE BLASTING PERMITS FOR A REQUIRED BLASTING. IF BLASTING IS ALLOWED, ALL BLASTING SHALL CONFORM TO STATE REGULATIONS AND LOCAL ORDINANCES.

UTILITY COMPANIES:

THE FOLLOWING LIST OF UTILITY COMPANIES IS PROVIDED FOR INFORMATION ONLY. WE DO NOT OFFER ANY GUARANTEE OR WARRANTY THAT THIS LIST IS COMPLETE OR ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES THAT MAY BE AFFECTED BY THE PROPOSED CONSTRUCTION AND VERIFYING THE ACTUAL LOCATION OF EACH UTILITY LINE. THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH PROPOSED IMPROVEMENTS.

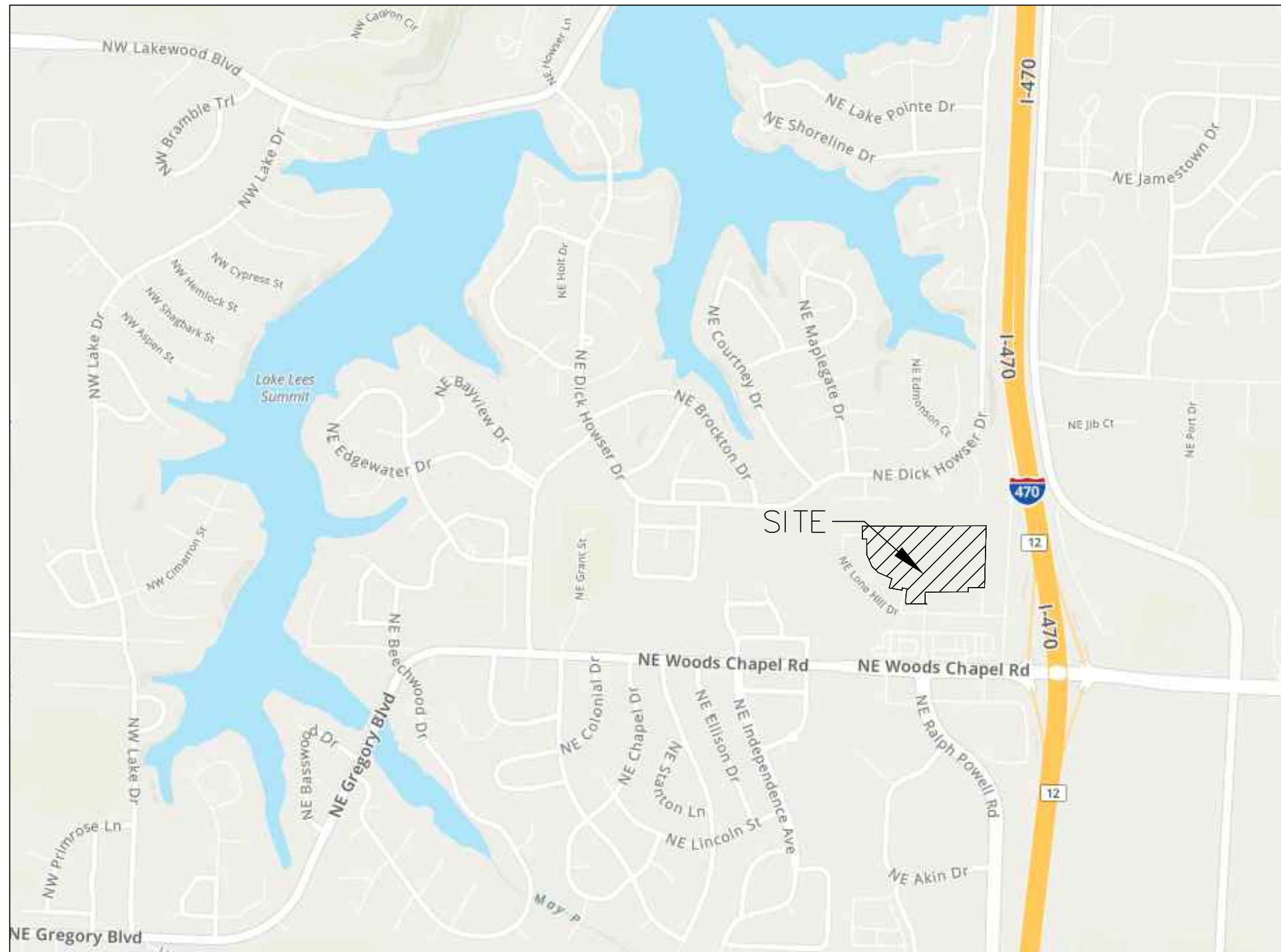
EVERGY ~ 298-1198
MISSOURI GAS ENERGY ~ 756-5261
SOUTHWESTERN BELL TELEPHONE ~ 761-5011
COMCAST CABLE ~ 795-1100
WILLIAMS PIPELINE ~ 422-6300
CITY OF LEE'S SUMMIT PUBLIC WORKS ~ 969-1800
CITY OF LEE'S SUMMIT PUBLIC WORKS INSPECTIONS ~ 969-1800
CITY OF LEE'S SUMMIT WATER UTILITIES ~ 969-1900
MISSOURI ONE CALL (DIG RITE) ~ 1-800-344-7483

OIL - GAS WELLS

ACCORDING TO EDWARD ALTON MAY JR'S ENVIRONMENTAL IMPACT STUDY OF ABANDONED OIL AND GAS WELLS IN LEE'S SUMMIT, MISSOURI IN 1995, THERE ARE NOT OIL AND GAS WELLS WITHIN 185 FEET OF THE PROPERTY AS SURVEYED HEREON.

FLOOD INFORMATION:

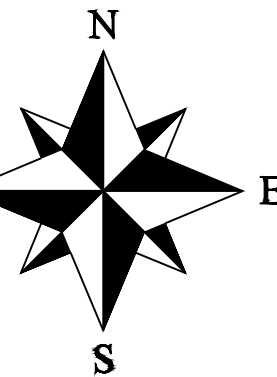
The property is located in Zone "X" areas outside the 100 year flood plain per FEMA Map 29095C0430G, dated January 20, 2017



SITE LOCATION MAP

Summary of Quantities:

ITEM AND DESCRIPTION	UNIT	ESTIMATED QUANTITY
ASPHALT PAVING	S.Y.	4,620.00
CURBING	FT	3,084.00
5' SIDEWALK	S.F.	12,804.00
MoDOT Type 5 Base	S.Y.	5,460.00
GEOGRID	S.Y.	5,460.00
ADA SIDEWALK RAMP	UNIT	4
CLEARING, GRADING & GRUBBING	LS	1
STORM		
24" HDPE	FT	161.46
18" HDPE	FT	836.80
15" HDPE	FT	1,013.56
18" HDPE END SECTION / TOE WALL	LS	1.00
4' x 4' STORM FIELD INLET	EA	4.00
5' x 4' STORM CURB INLET	EA	11.00



LEGEND:

B/L - BUILDING SET-BACK
C/A - COMMON AREA
D/E - DRAINAGE EASEMENT
FND - FOUND
L/E - LANDSCAPE EASEMENT
L.N.A - LIMITS OF NO ACCESS
R/W - RIGHT OF WAY
SAN - SANITARY SEWER LINE
S/W - SIDEWALK
U/E - UTILITY EASEMENT
W - WATER LINE
ST - STORM SEWER LINE

ENGINEER'S CERTIFICATION:

I HEREBY CERTIFY THAT THIS PROJECT HAS BEEN DESIGNED AND THESE PLANS PREPARED IN ACCORDANCE WITH THE CURRENT DESIGN CRITERIA OF THE CITY OF LEE'S SUMMIT, MISSOURI AND THE STATE OF MISSOURI. I FURTHER CERTIFY THAT THESE PLANS WERE DESIGNED IN ACCORDANCE TO AASHTO STANDARDS.

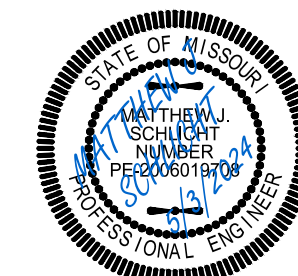


Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

THE TOWNHOMES OF CHAPEL RIDGE-2ND PLAT
LOTS 9-19 & TRACTS A-D
Lee's Summit, Jackson County, Missouri

Project: TOWNHOMES AT CHAPEL RIDGE PHASE 2, LSWO
Issue Date: May 3, 2024

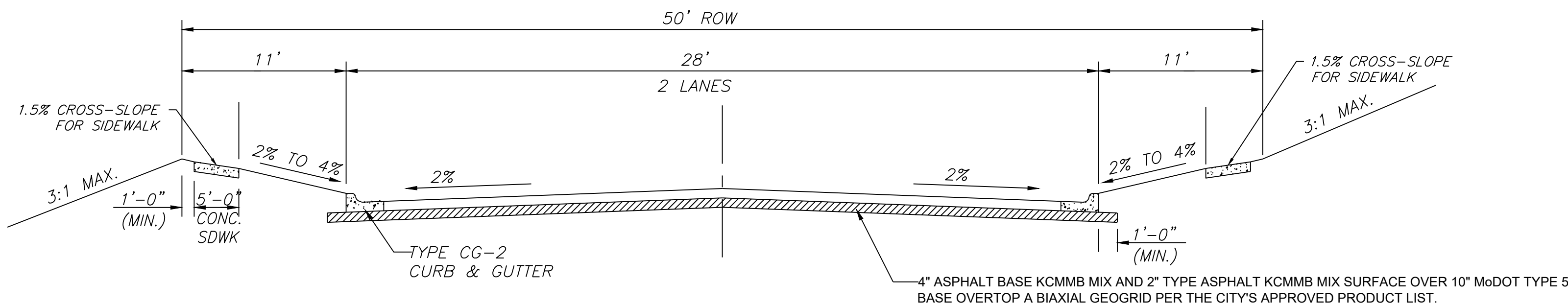
Street & Storm Cover Sheet
Construction Plans for:
THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
LOTS 20-37 & TRACTS E-F
Lee's Summit, Jackson County, Missouri



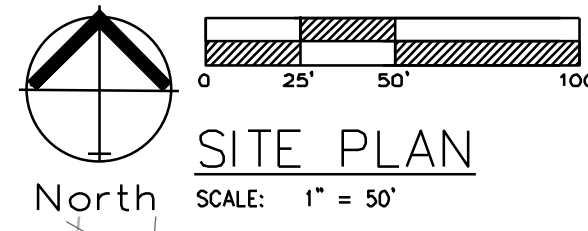
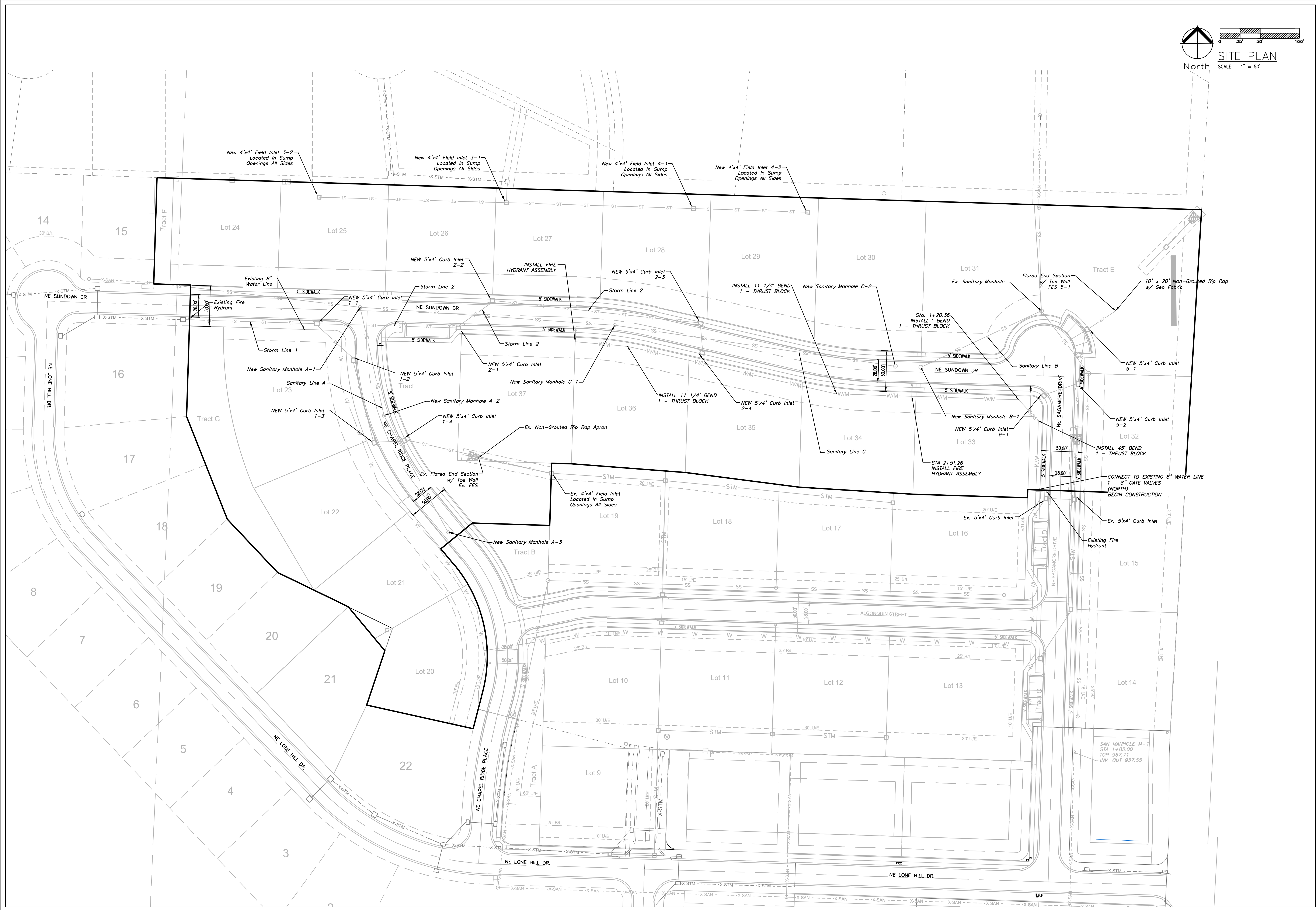
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS

C.001



TYPICAL SECTION
(RESIDENTIAL STREET)



Professional Registration
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LOTS 9-19 & TRACTS A-D
Lee's Summit, Jackson County, Missouri

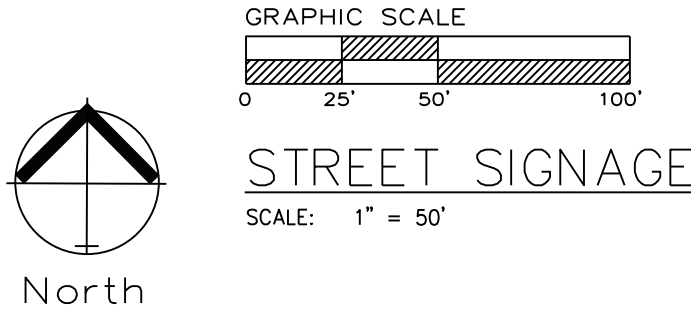
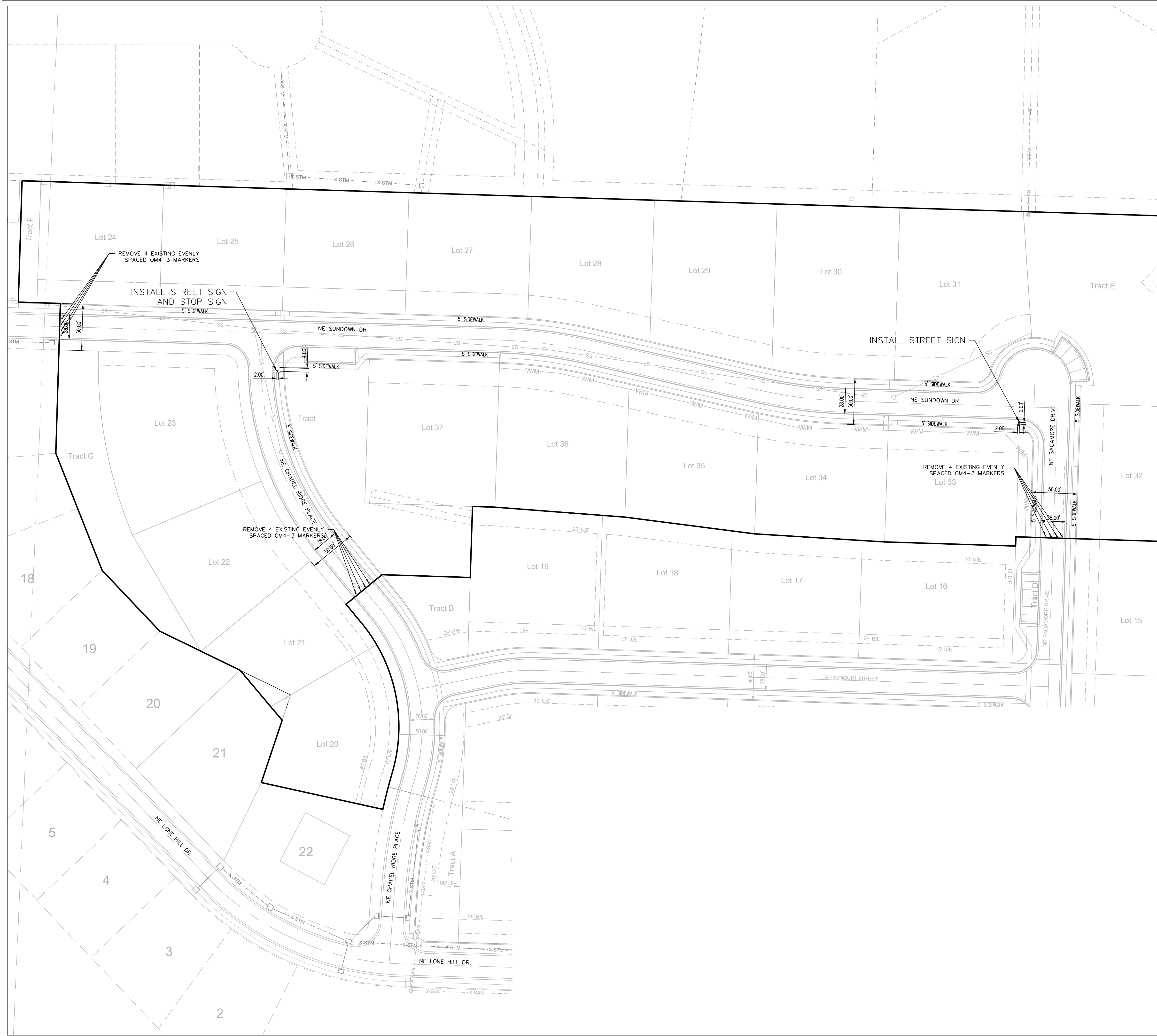
Project:
TOWNHOMES AT
CHAPEL RIDGE
PHASE 2, LINDO
Issue Date:
May 3, 2024

Site Plan
Construction Plans for:
THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
LOTS 20-37 & TRACTS E-F
Lee's Summit, Jackson County, Missouri



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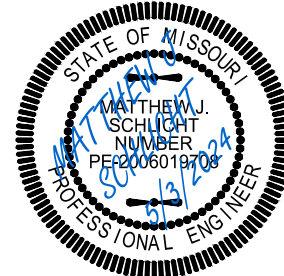


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THE TOWNHOMES OF CHAPEL RIDGE-2ND PLAT
LOTS 9-19 & TRACTS A-D
Lee's Summit, Jackson County, Missouri

Project: TOWNHOMES AT CHAPEL RIDGE
Phase: 2, L&MO
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Street Signage
Construction Plans for:
THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
LOTS 20-37 & TRACTS E-F
Lee's Summit, Jackson County, Missouri



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Estimated Cut / Fill Quantities

Site Area	7.32 Acres
Cut Volume (Unadjusted)	29,628 c.y.
Fill Volume (Unadjusted)	30,922 c.y.
Street & Sidewalk Cut Volume	1,820 c.y.

Net Excess 3,114 c.y. (Unadjusted)(Cut)

Notes

- Contractor is responsible for verifying all existing utility locations prior to excavation
- There are no known natural or artificial water storage detention areas, or wetlands in the area designated for construction
- No part of the project lies within the 100 year flood plain
- All erosion and sediment control measures need to be implemented prior to construction
- Additional erosion control may be required by the City Engineer, Design Engineer or Owner at any time problematic areas are noted in the field or existing measures are found to be ineffective
- Soil Stabilization of disturbed areas shall be completed within 14 days of construction inactivity
- Contractor responsible for all density testing of roadway subgrade and granular base.

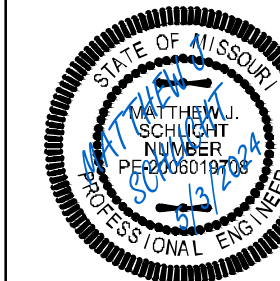
Master Drainage Plan 1 of 3:

Grading Plan
Construction Plans for:
THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
LOTS 20-37 & TRACTS E-F
Lee's Summit, Jackson County, Missouri

Project: CHAPEL RIDGE
PHASE 2, LMO
Issue Date: May 3, 2024

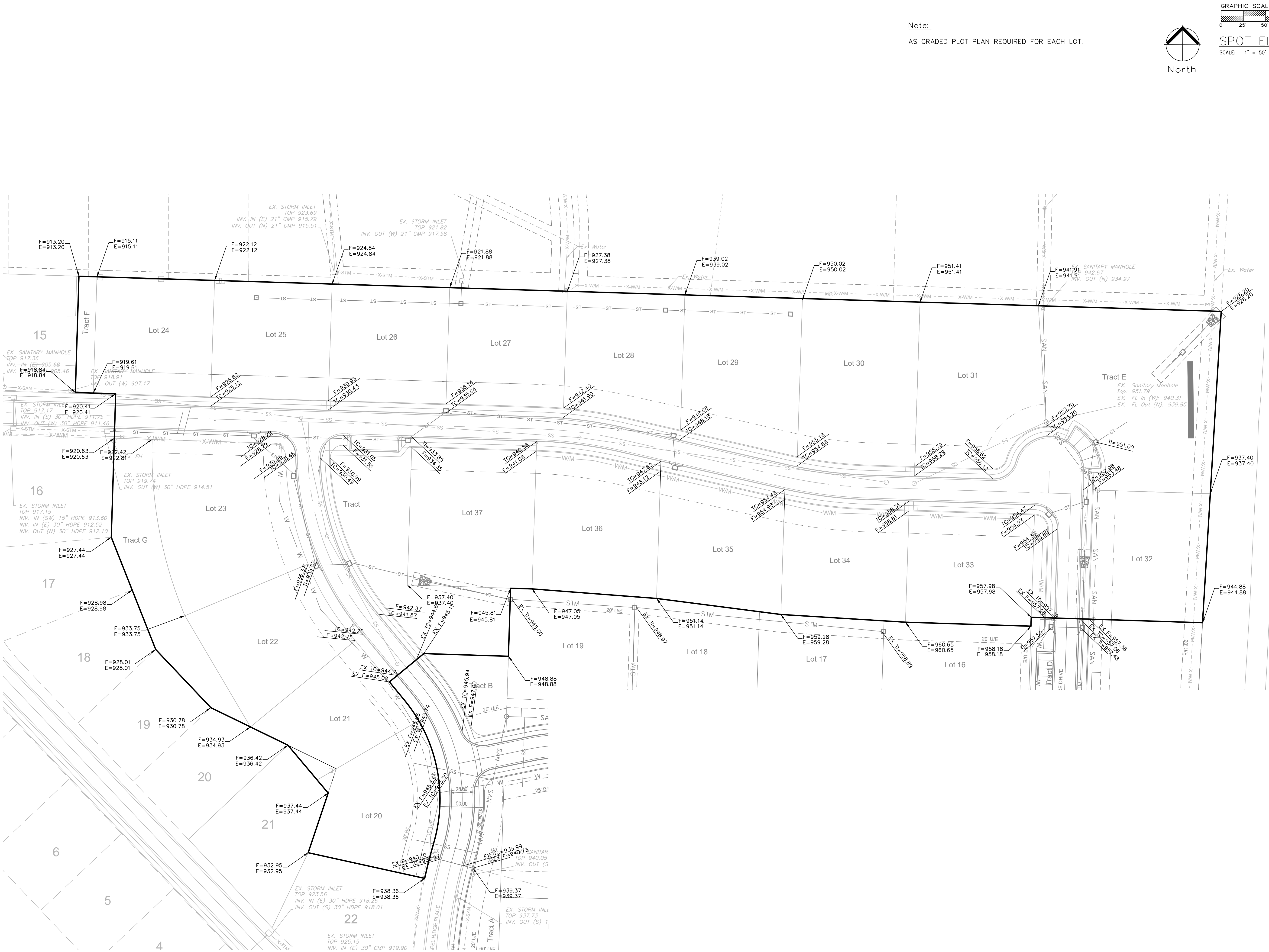
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LOTS 9-19 & TRACTS A-D
Lee's Summit, Jackson County, Missouri

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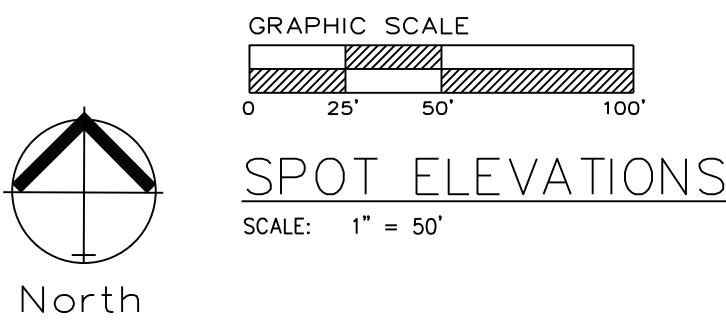


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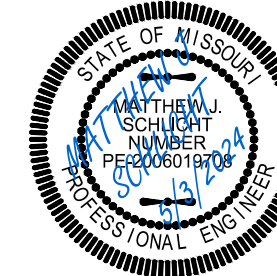
Note:
AS GRADED PLOT PLAN REQUIRED FOR EACH LOT.



Master Drainage Plan 2 of 3:
Spot Elevations
Construction Plans for:
THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
LOTS 20-37 & TRACTS E-F
Lee's Summit, Jackson County, Missouri

THE TOWNHOMES OF CHAPEL RIDGE-2ND PLAT
LOTS 9-19 & TRACTS A-D
Lee's Summit, Jackson County, Missouri

Project: TOWNHOMES AT CHAPEL RIDGE
Phase: 2, LSWO
Issue Date: May 3, 2024



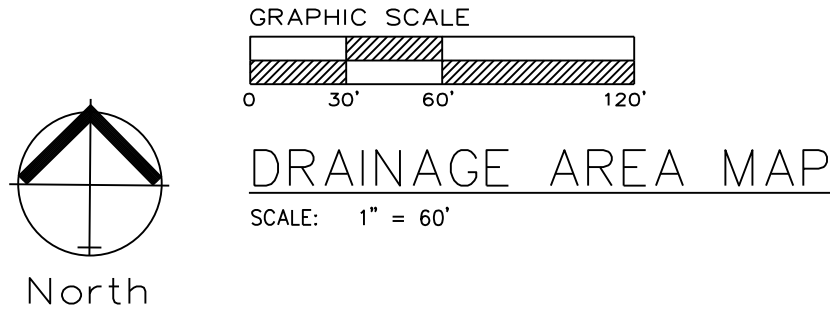
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OK PE 25226
NE PE 14335

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Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

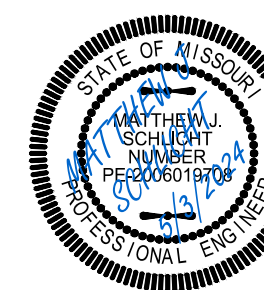
50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
P: (816) 623-9888 F: (816) 623-9849



APWA STORM DRAINAGE "TC" COMPUTATIONS FOR: TOWNHOMES OF CHAPEL RIDGE 2ND PLAT

AREA ID	TOTAL SQ.FT.	yellow areas are self computing overwrite if necessary					Surface types: Asph/ConcBus/Com Dirt Grass/Park Lake MultFam SnglFam Undev Other										TC COMPUTATION										AREA ID												
		TOTAL ACRES	WTRSHD LENGTH	UP ELEV	DN ELEV	SURFACE CODES					SURFACE CODE	P=Paved U=Unpaved U=Unpaved					Cal Overland	Used Min 5	Cal Channel	Cal Channel	Total	Intensity 10 I	Intensity 100 I	CFS 10 Q	CFS 100 Q														
						"C" Values						Overwrite Length - DN ELEV or Slope if necessary																											
						OVERLAND FLOW - 100' MAX	LENGTH	ELEV	DN ELEV	SLOPE %		or U	CHANNEL LENGTH	ELEV	DN ELEV	SLOPE %												VELOCITY F/S	Flow T(I)	Max 15 T(I)	One T(I)	Two T(I)	⊗ 10 I						
PROP.						SURFACE CODE	"C" VALUE	OVRLND LENGTH	ELEV	DN ELEV	SLOPE %		or U	CHANNEL LENGTH	ELEV	DN ELEV	SLOPE %	VELOCITY F/S										PROP.											
1	10895	0.25	437.00	933.35	918.00	M	0.66	17.0	933.4	933.00	2.1	P	420.0	933.0	918.0	3.57	3.8	2.6	5.0	1.8	0.0	6.8	6.8	9.6	1.13	1.98	1												
2	22237	0.51	370.00	942.00	920.00	M	0.66	100.0	942.0	935.50	6.5	U	270.0	935.5	920.0	5.74	3.9	4.2	5.0	1.2	0.0	6.2	7.0	9.9	2.36	4.15	2												
3	27231	0.63	337.00	948.00	928.00	M	0.66	100.0	948.0	940.00	8.0	P	237.0	940.0	928.0	5.06	4.6	4.0	5.0	0.9	0.0	5.9	7.1	10.0	2.93	5.14	3												
4	6022	0.14	232.00	946.00	937.00	M	0.66	23.0	946.0	945.50	2.2	P	209.0	945.5	937.0	4.07	4.1	2.9	5.0	0.8	0.0	5.8	7.1	10.0	0.65	1.14	4												
5	30757	0.71	387.00	956.00	937.00	M	0.66	100.0	956.0	949.50	6.5	P	287.0	949.5	937.0	4.36	4.2	4.2	5.0	1.1	0.0	6.1	7.0	9.9	3.27	5.75	5												
6	41233	0.95	367.00	951.00	934.00	M	0.66	100.0	951.0	948.75	2.3	P	267.0	948.8	934.0	5.52	4.8	6.0	6.0	0.9	0.0	7.0	6.8	9.6	4.24	7.47	6												
7	40955	0.94	315.00	960.50	948.50	M	0.66	100.0	960.5	958.25	2.3	U	215.0	958.3	948.5	4.53	3.4	6.0	6.0	1.0	0.0	7.1	6.8	9.5	4.19	7.39	7												
8	35814	0.82	250.00	964.00	954.00	M	0.66	100.0	964.0	959.50	4.5	U	150.0	959.5	954.0	3.67	3.1	4.8	5.0	0.8	0.0	5.8	7.1	10.0	3.86	6.78	8												
9	8924	0.20	152.00	958.00	953.00	M	0.66	100.0	958.0	956.00	2.0	P	52.0	956.0	953.0	5.77	4.9	6.3	6.3	0.2	0.0	6.5	6.9	9.7	0.94	1.65	9												
10	10158	0.23	251.00	957.40	951.50	M	0.66	17.0	957.4	957.00	2.4	P	234.0	957.0	951.5	2.35	3.1	2.5	5.0	1.3	0.0	6.3	7.0	9.8	1.08	1.89	10												
11	65237	1.50	502.00	957.50	930.00	M	0.66	100.0	957.5	953.00	4.5	U	402.0	953.0	930.0	5.72	3.9	4.8	5.0	1.7	0.0	6.7	6.9	9.6	6.77	11.92	11												
12	6793	0.16	265.00	958.50	948.00	M	0.66	21.0	958.5	958.00	2.4	P	244.0	958.0	948.0	4.10	4.1	2.7	5.0	1.0	0.0	6.0	7.1	9.9	0.73	1.28	12												
13	7439	0.17	250.00	947.50	936.00	M	0.66	20.0	947.5	947.00	2.5	P	230.0	947.0	936.0	4.78	4.4	2.6	5.0	0.9	0.0	5.9	7.1	10.0	0.80	1.41	13												
14	9171	0.21	180.00	957.00	949.50	M	0.66	100.0	957.0	953.50	3.5	U	80.0	953.5	949.5	5.00	3.6	5.2	5.2	0.4	0.0	5.6	7.2	10.1	1.00	1.75	14												
15	21869	0.50	248.00	955.00	937.50	M	0.66	100.0	955.0	953.00	2.0	U	148.0	953.0	937.5	10.47	5.2	6.3	6.3	0.5	0.0	6.8	6.8	9.6	2.27	3.99	15												
16	44687	1.03	322.00	947.50	921.50	M	0.66	100.0	947.5	941.00	6.5	U	222.0	941.0	921.5	8.78	4.8	4.2	5.0	0.8	0.0	5.8	7.1	10.0	4.82	8.47	16												
17	18133	0.42	208.00	931.00	909.00	M	0.66	100.0	931.0	926.80	4.2	U	108.0	926.8	909.0	16.48	6.6	4.9	5.0	0.3	0.0	5.3	7.3	10.2	2.00	3.51	17												
18	2903	0.07	156.00	935.40	931.00	M	0.66	18.0	935.4	935.00	2.2	P	138.0	935.0	931.0	2.90	3.5	2.6	5.0	0.7	0.0	5.7	7.2	10.1	0.31	0.55	18												

Master Drainage Map 3 of 3:
Drainage Area Map
Construction Plans for:
THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
LOTS 20-37 & TRACTS E-F
Lee's Summit, Jackson County, Missouri



Matthew J. Schlacht
MO PE 0006019708
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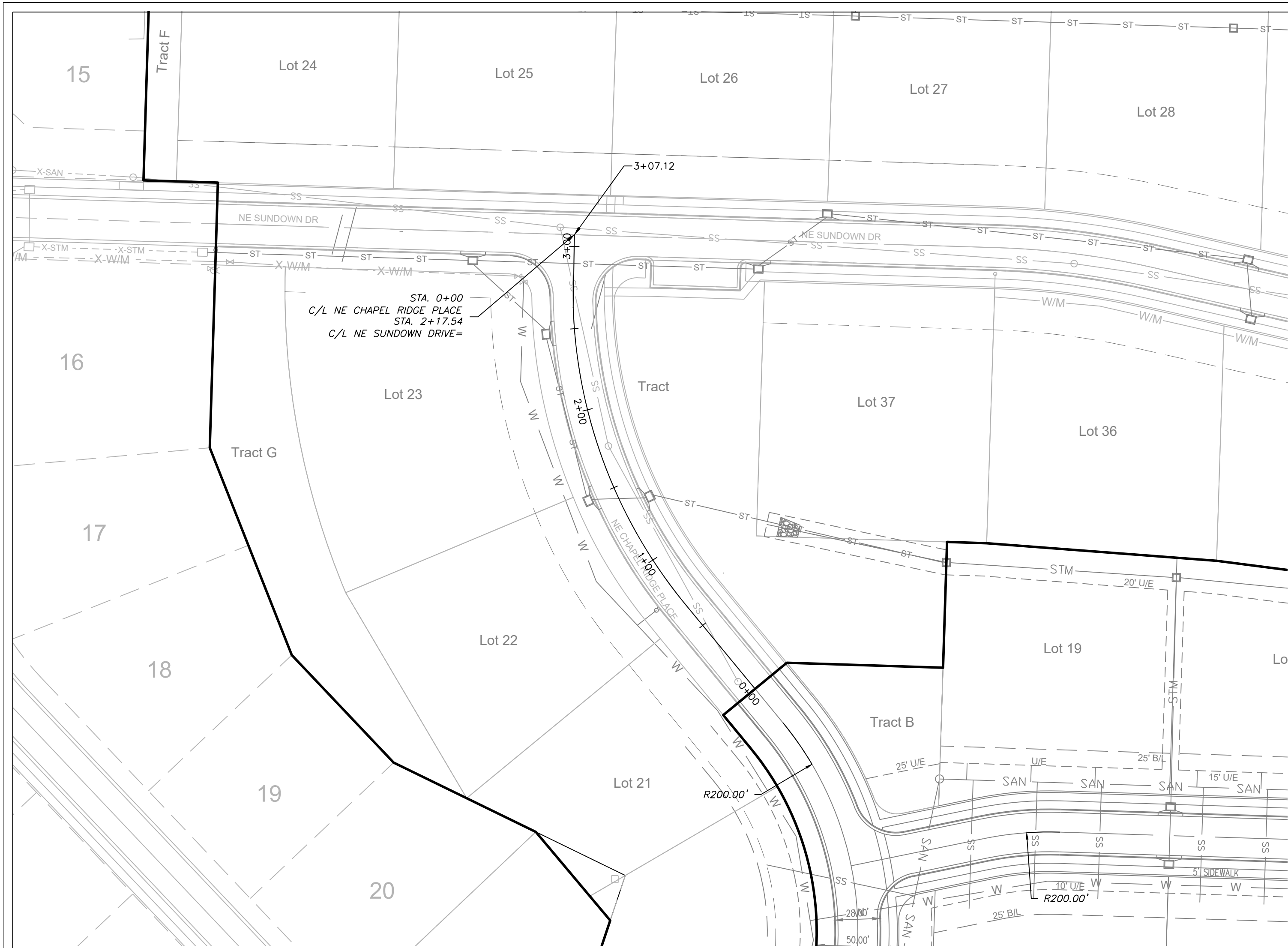
REVISIONS	

THE TOWNHOMES OF CHAPEL RIDGE-2ND PLAT
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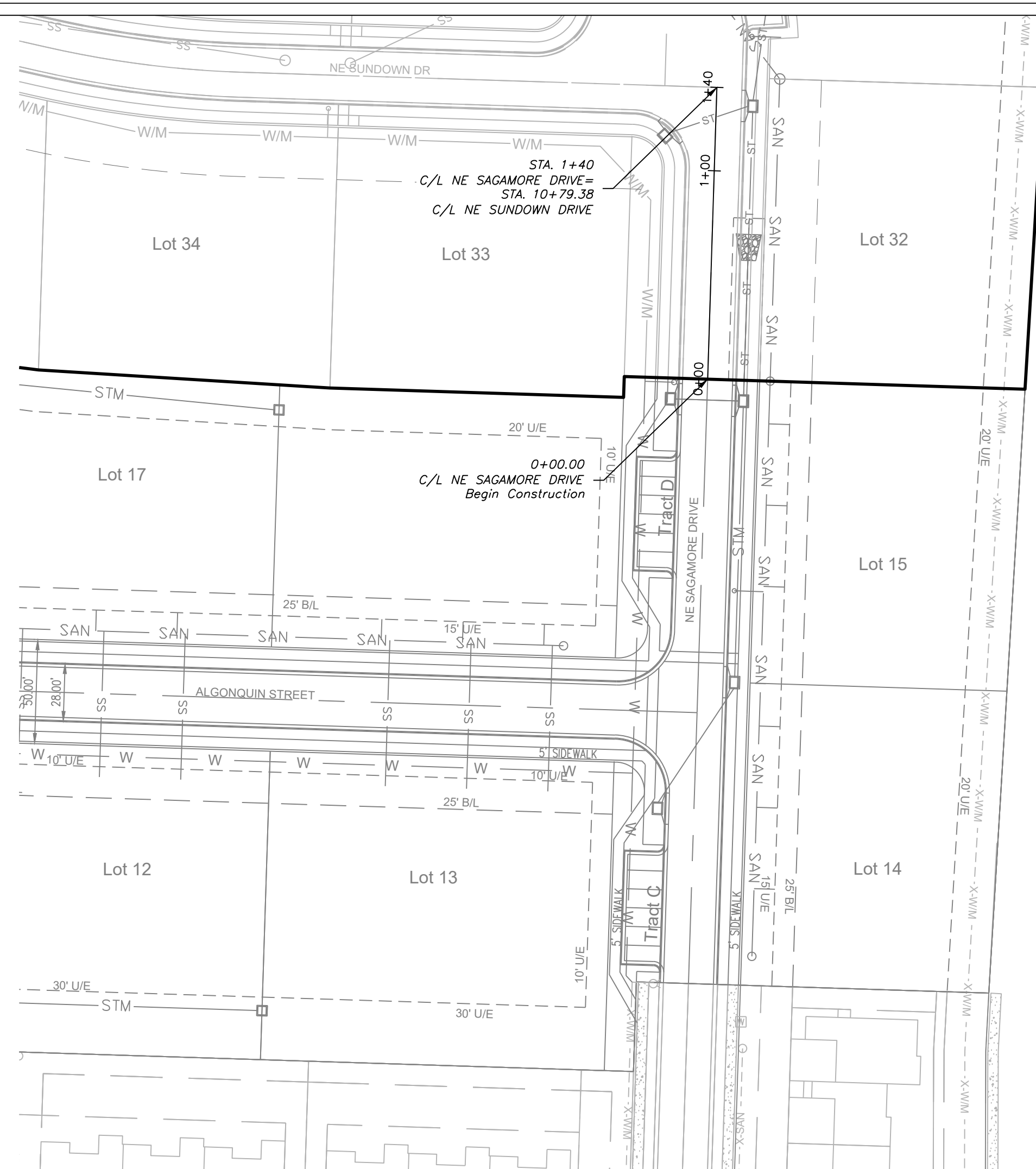
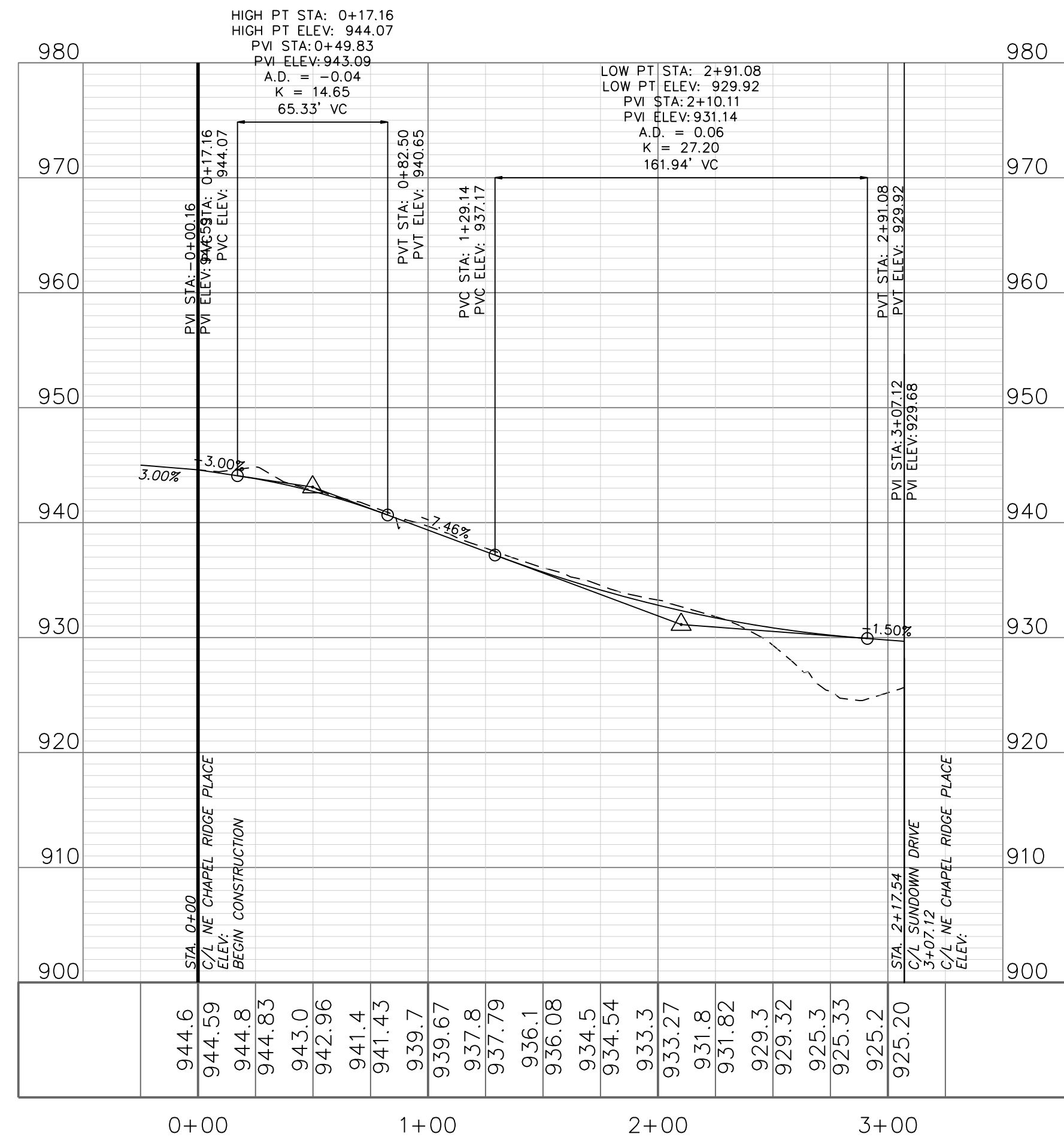
Project: THE TOWNHOMES AT CHAPEL RIDGE
Phase: 2, LSWO
Issue Date: May 3, 2024

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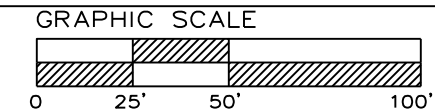
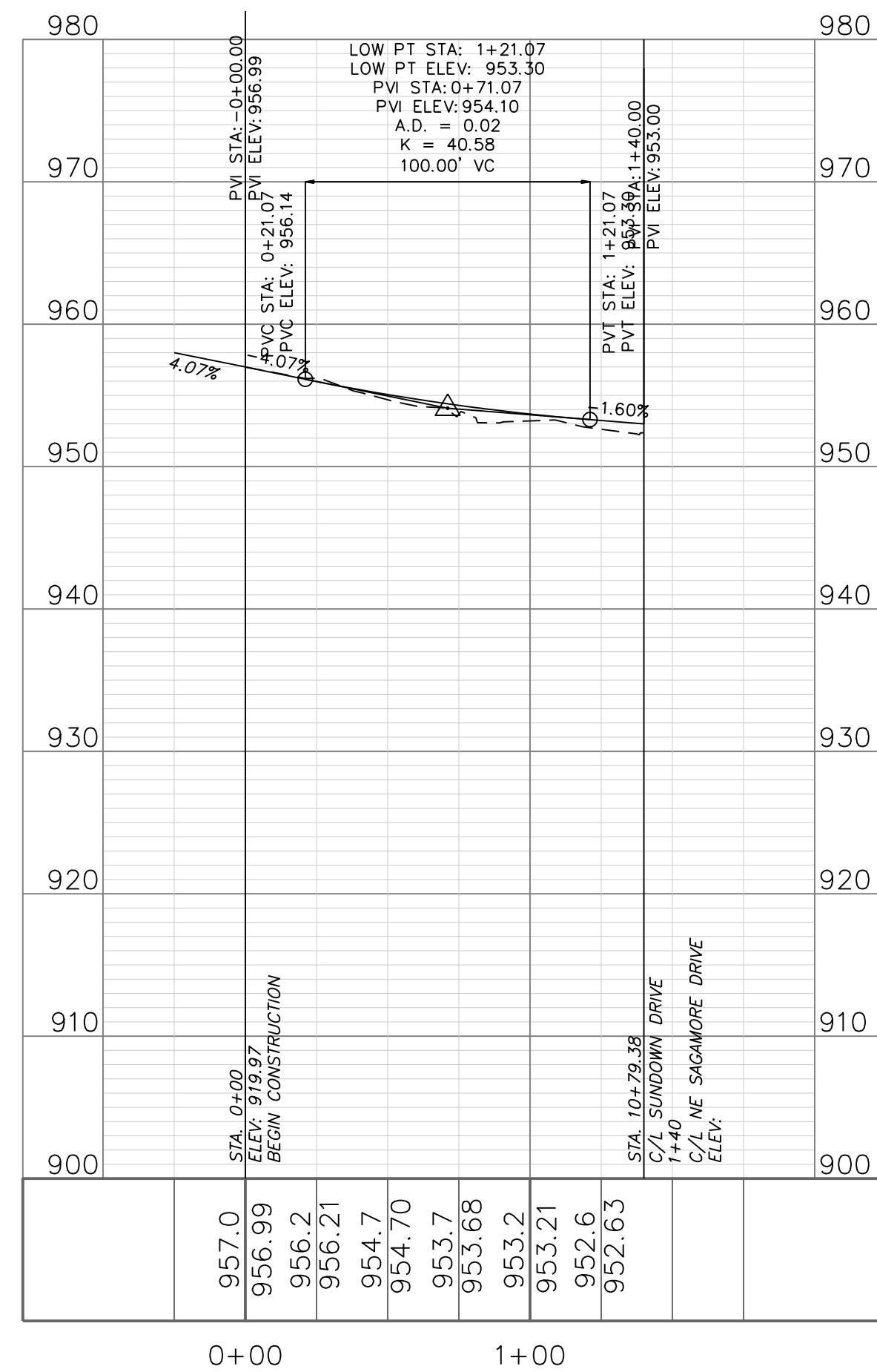




NE CHAPEL RIDGE PLACE

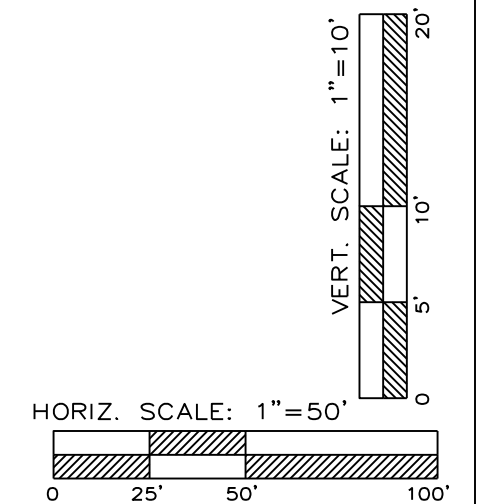


NE SAGAMORE DRIVE



STREET PLAN & PROFILE

SCALE: 1" = 50'

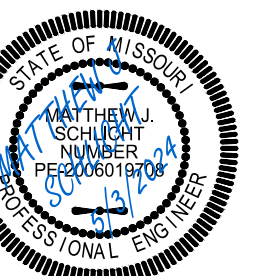


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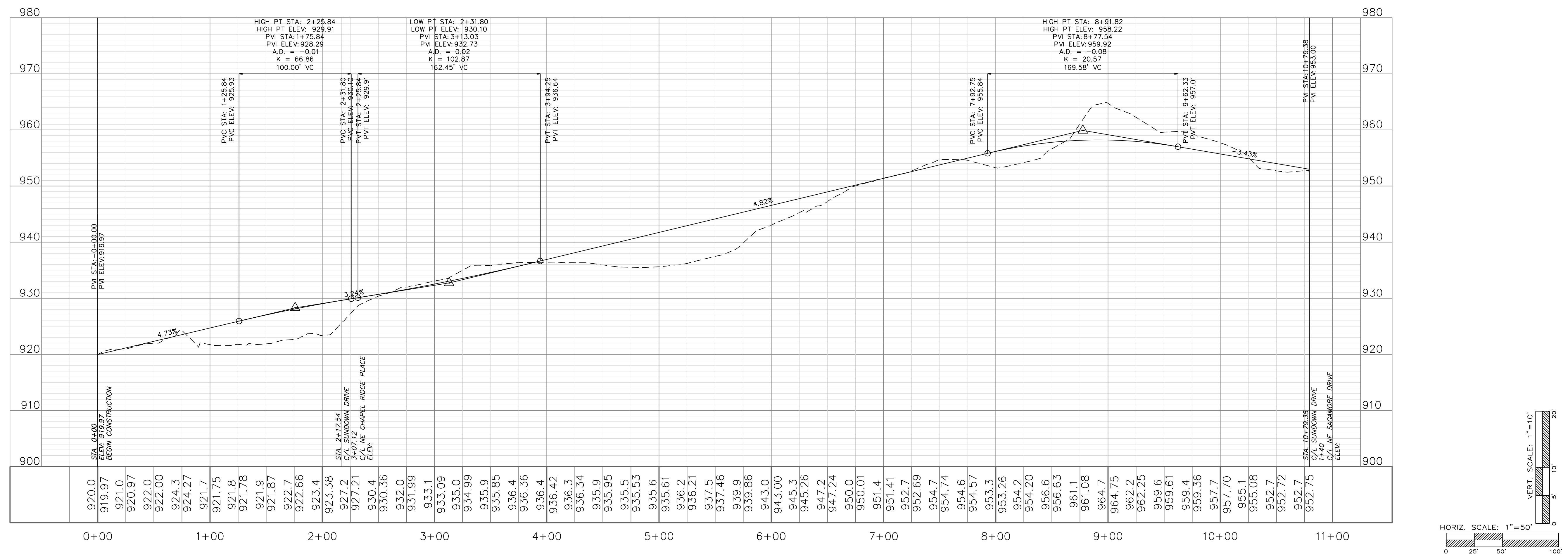
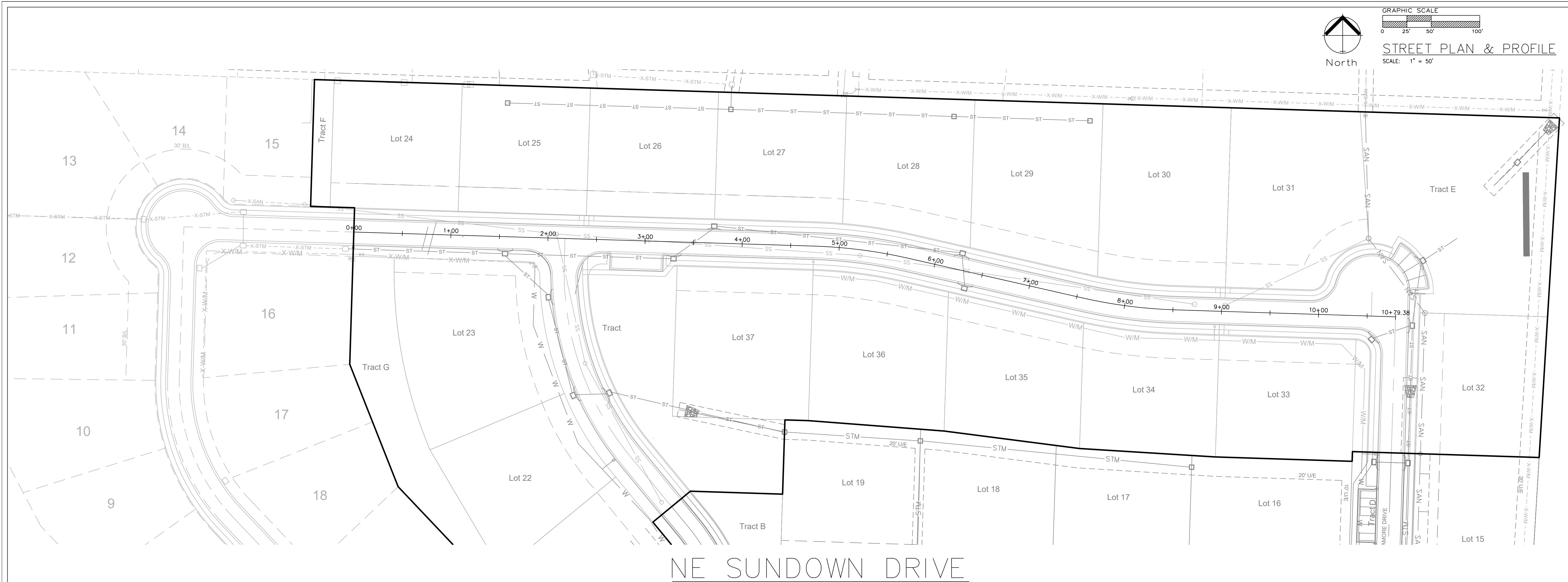
Street Plan and Profile
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ENGINEERING SOLUTIONS

ENGINEERING & SURVEYING

50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
P: (816) 623-9888 F: (816) 623-9849

Professional Registration

Missouri
Engineering 2005002186-D
Surveying 2005008319-D

Kansas
Engineering E-1685
Surveying LS-218

Oklahoma
Engineering 5254

Nebraska
Engineering CA2821

Project: THE TOWNHOMES OF CHAPEL RIDGE
Phase 2, L&MO

Issue Date: May 3, 2024

Street Plan and Profile

Construction Plans for:

THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT

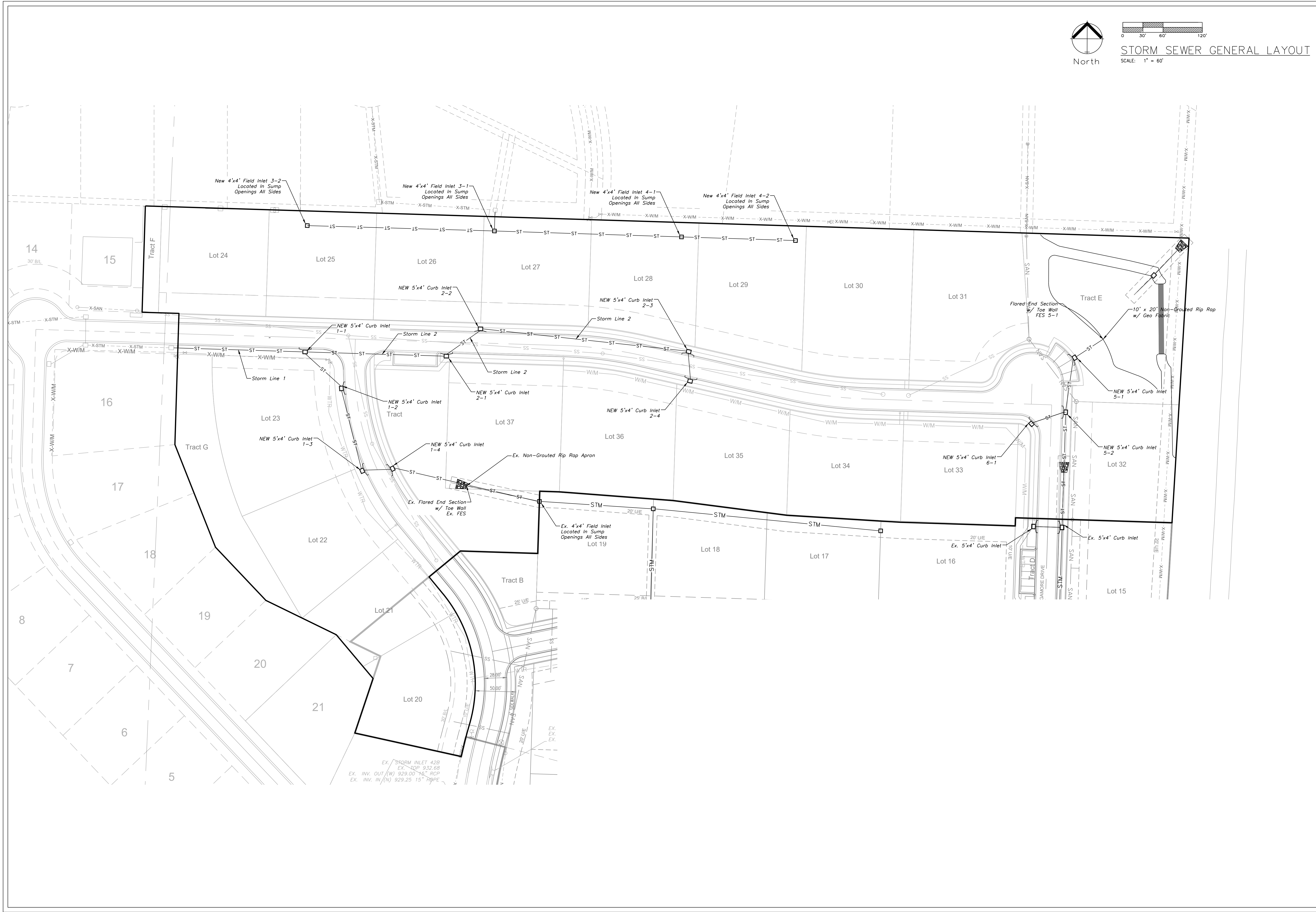
LOTS 20-37 & TRACTS E-F

Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS

C.204

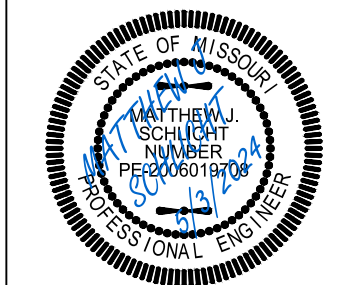


Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

THE TOWNHOMES OF CHAPEL RIDGE-2ND PLAT
LOTS 9-19 & TRACTS A-D
Lee's Summit, Jackson County, Missouri

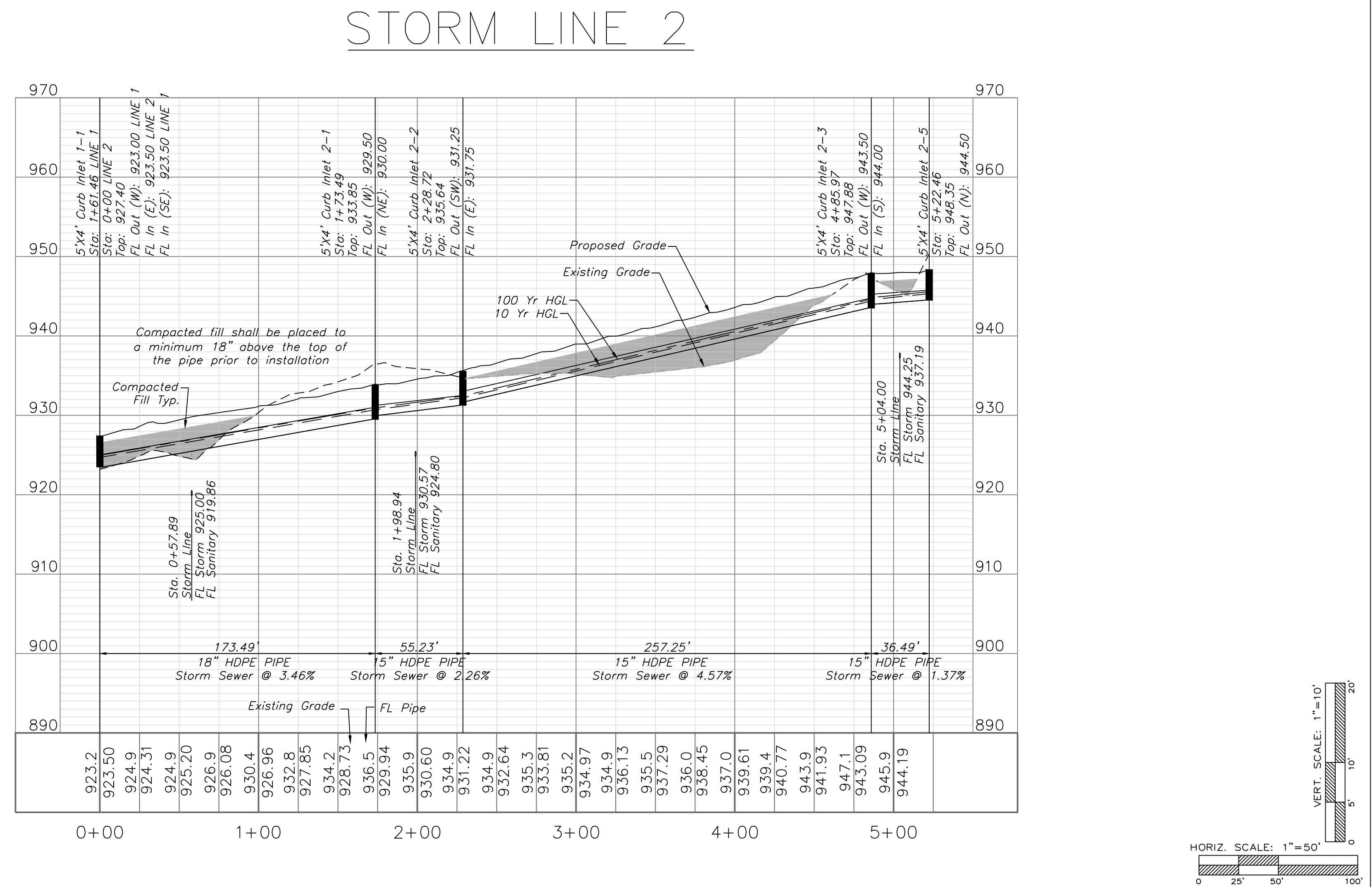
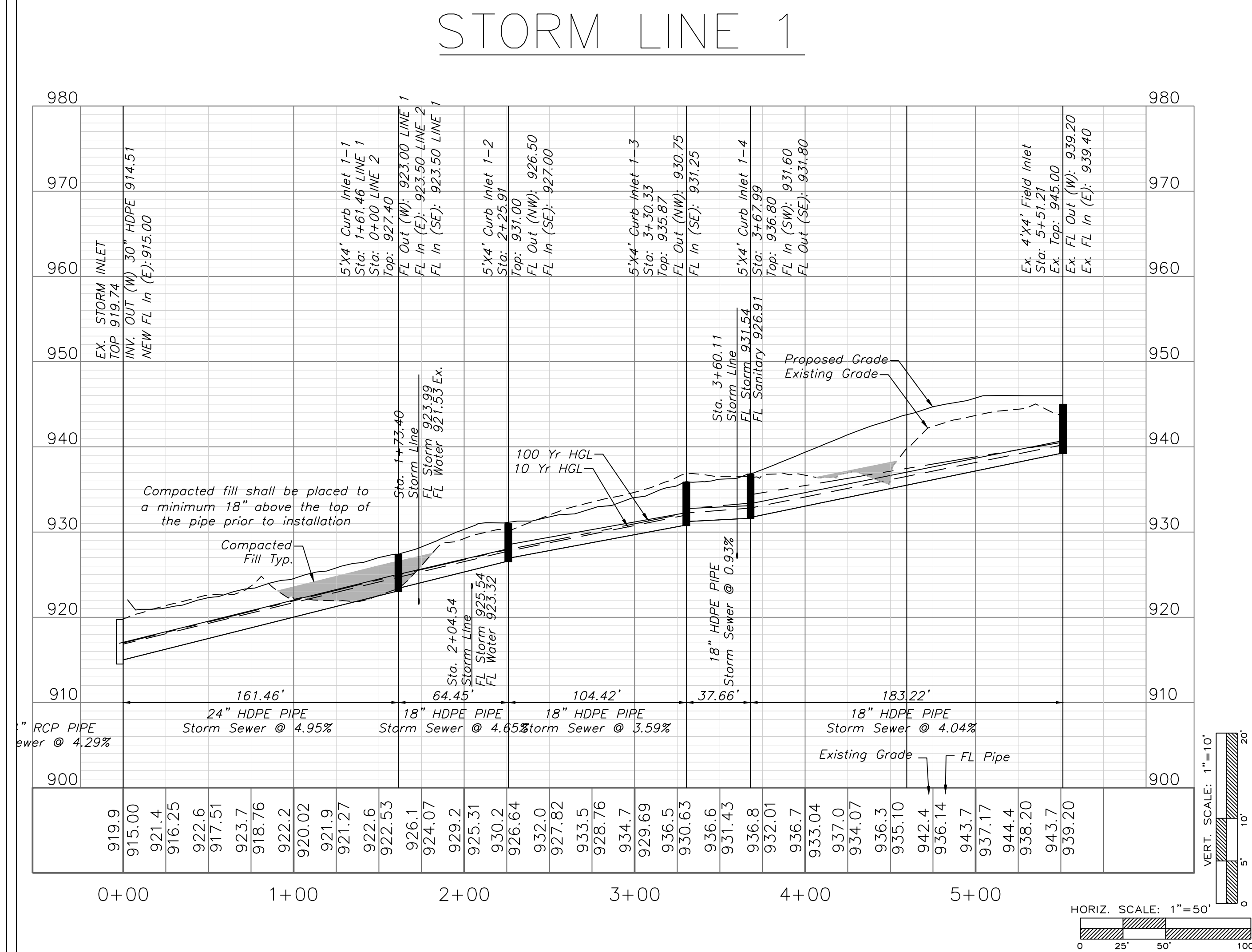
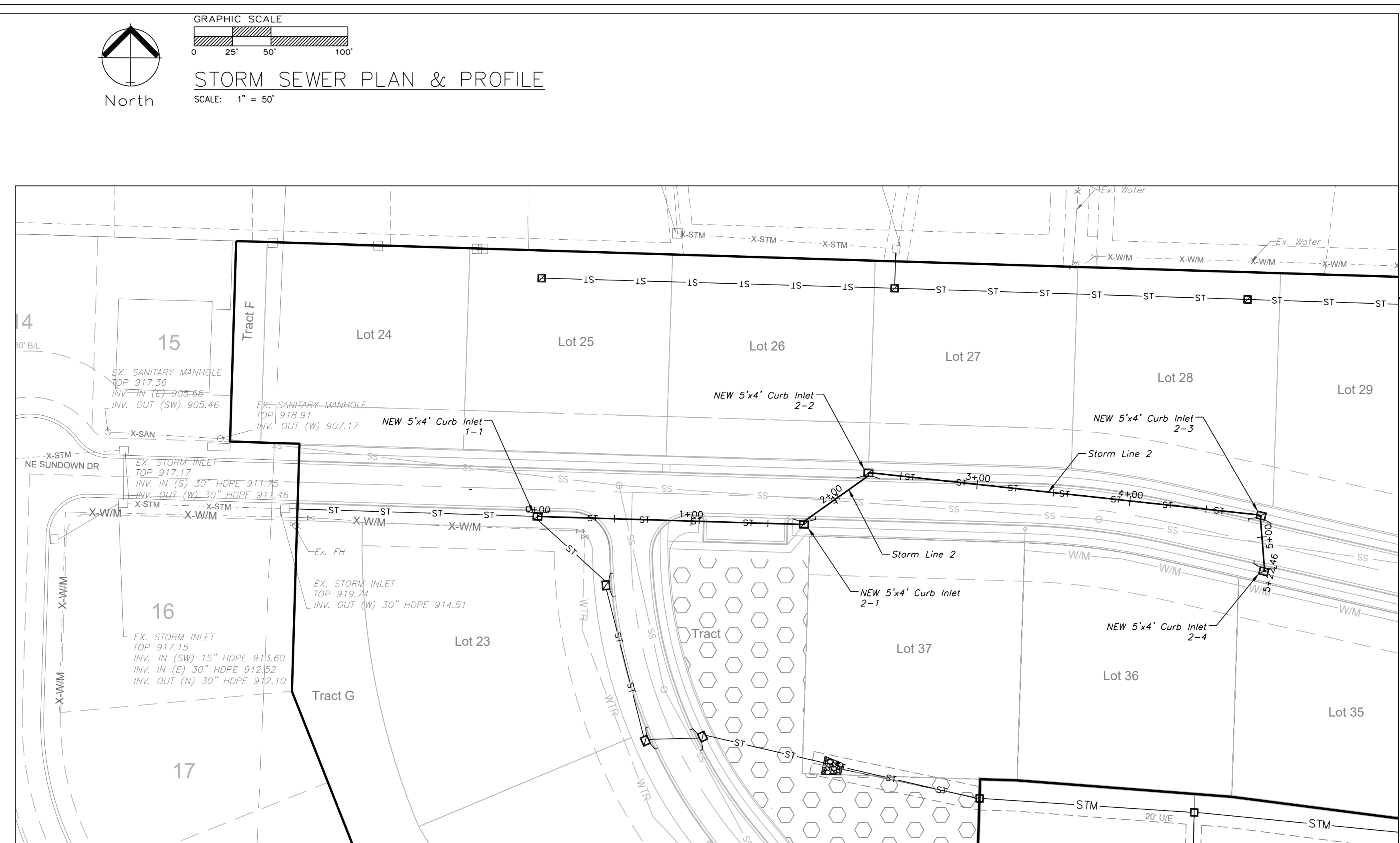
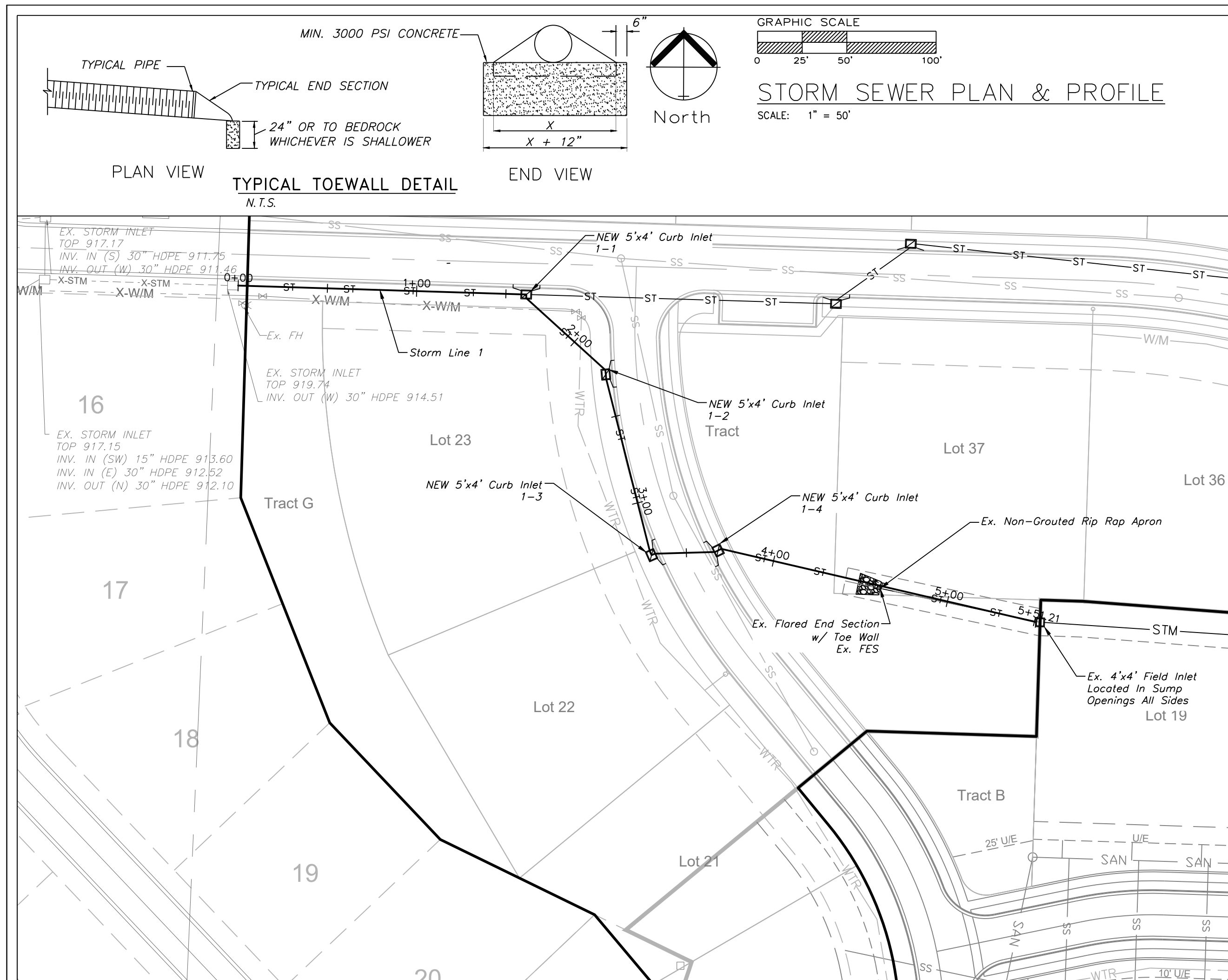
Project: CHAPEL RIDGE
CHAPL RIDGE
PHASE 2, L&MO
Issue Date:
May 3, 2024

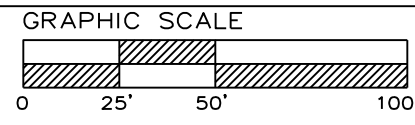
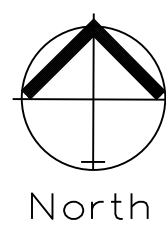
Storm Sewer General Layout
Construction Plans for:
THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
LOTS 20-37 & TRACTS E-F
Lee's Summit, Jackson County, Missouri



Matthew J. Schlicht
MO PE 2006019708
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NE PE E-114335

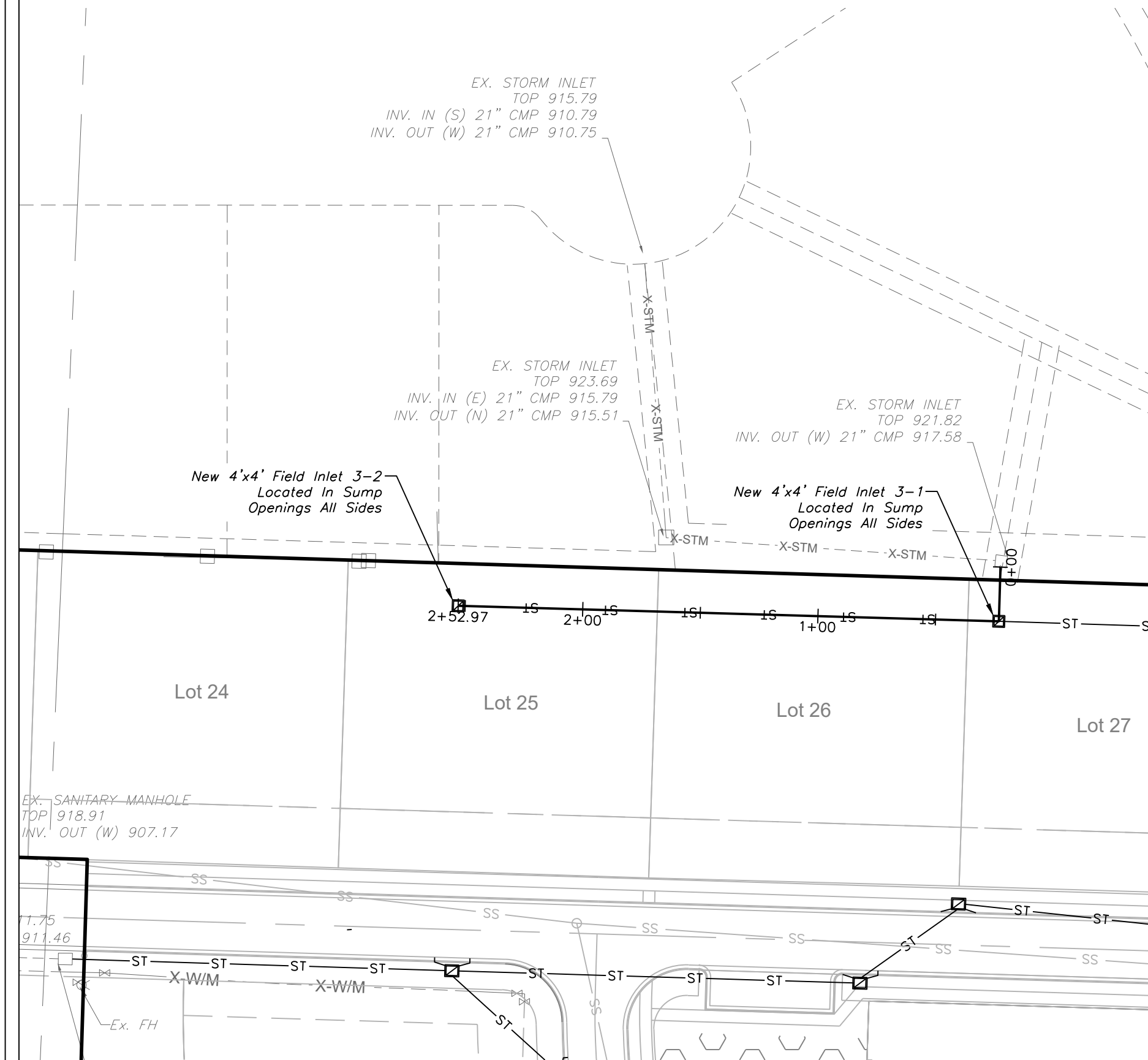
REVISIONS



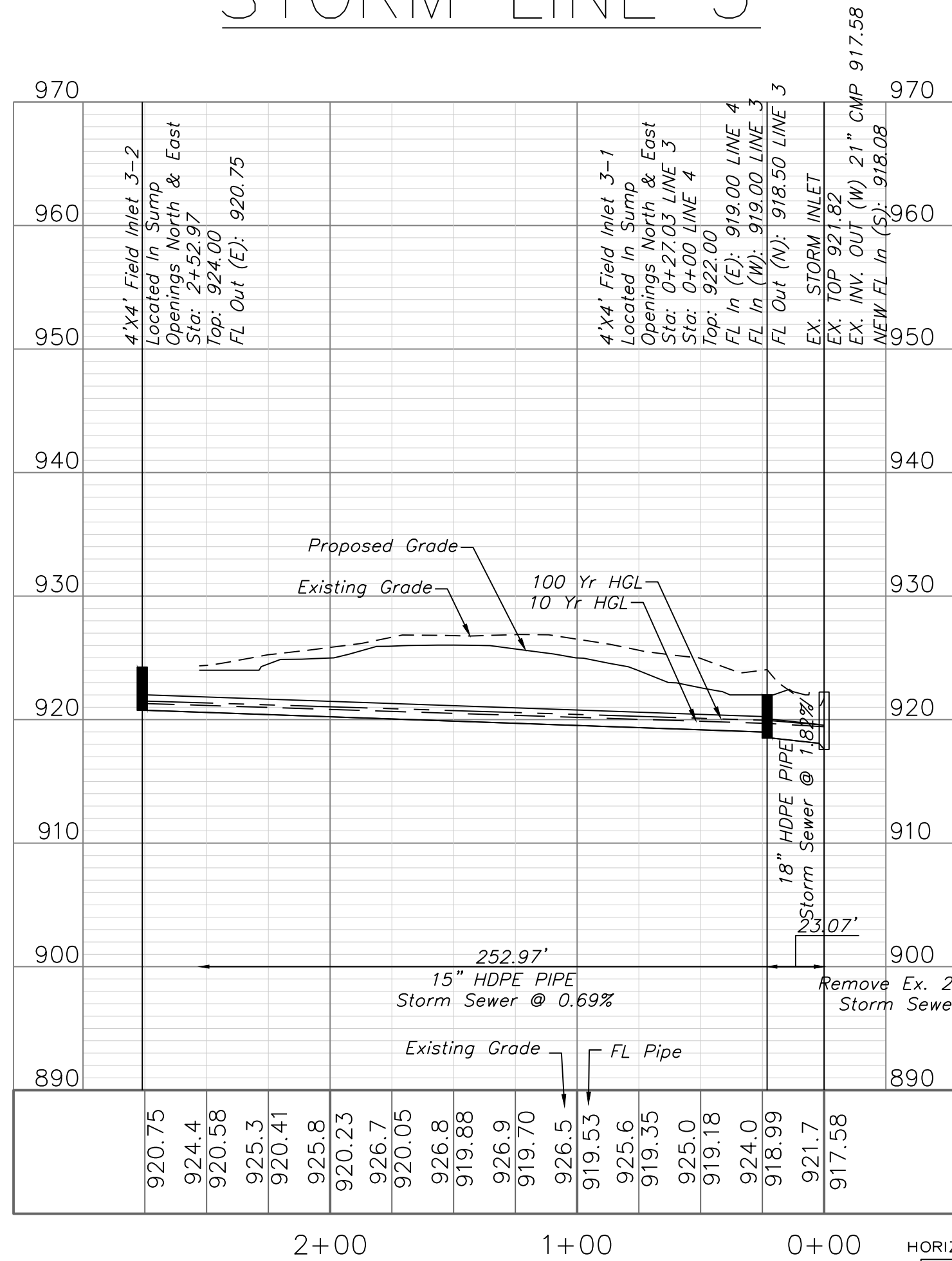


STORM SEWER PLAN & PROFILE

SCALE: 1" = 50'

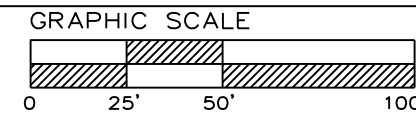
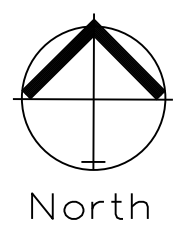
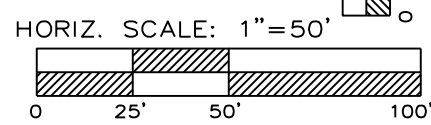


STORM LINE 3



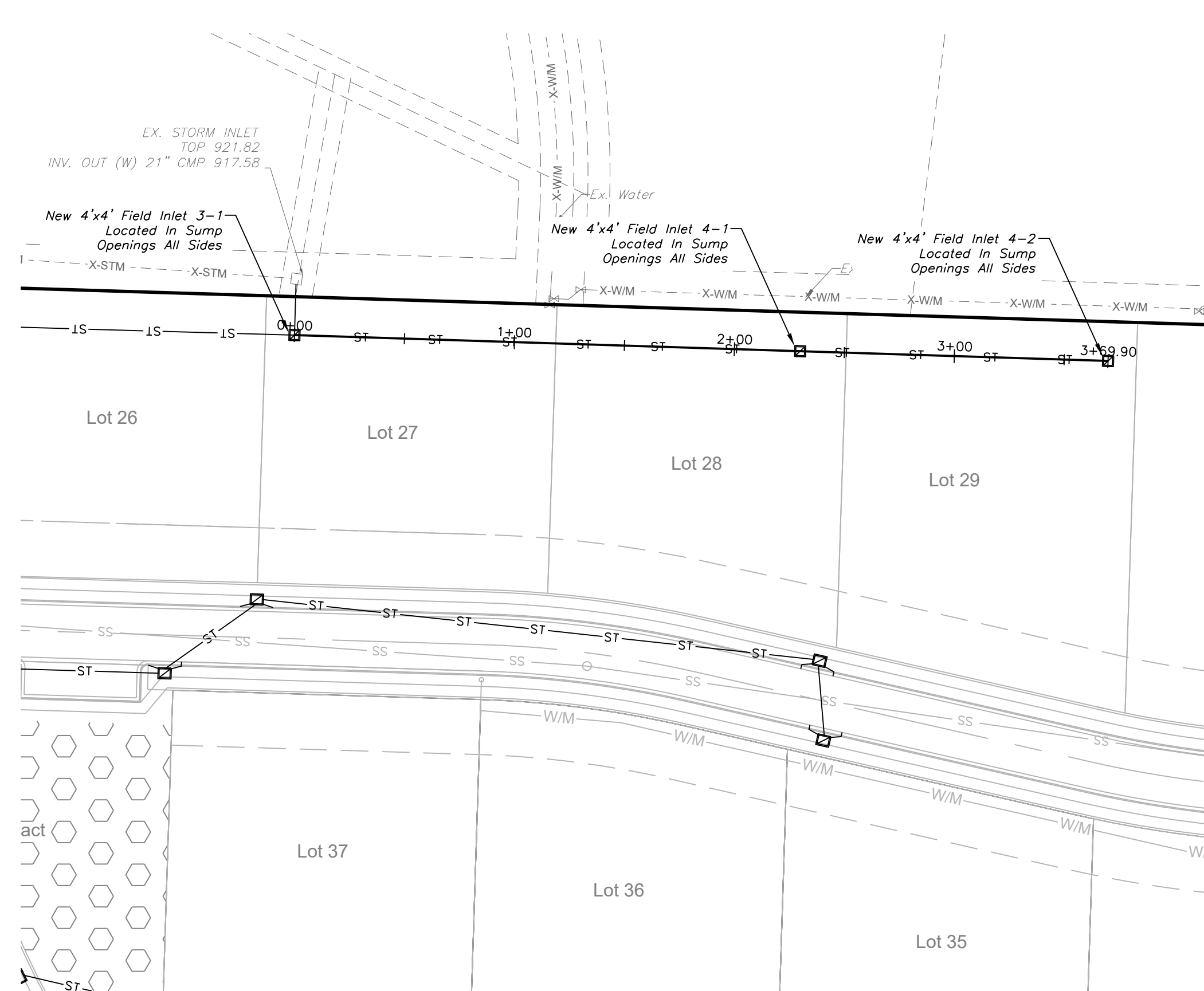
Remove Ex. 24" RCP PIPE Storm Sewer @ 4.29%

HORIZ. SCALE: 1"=50'

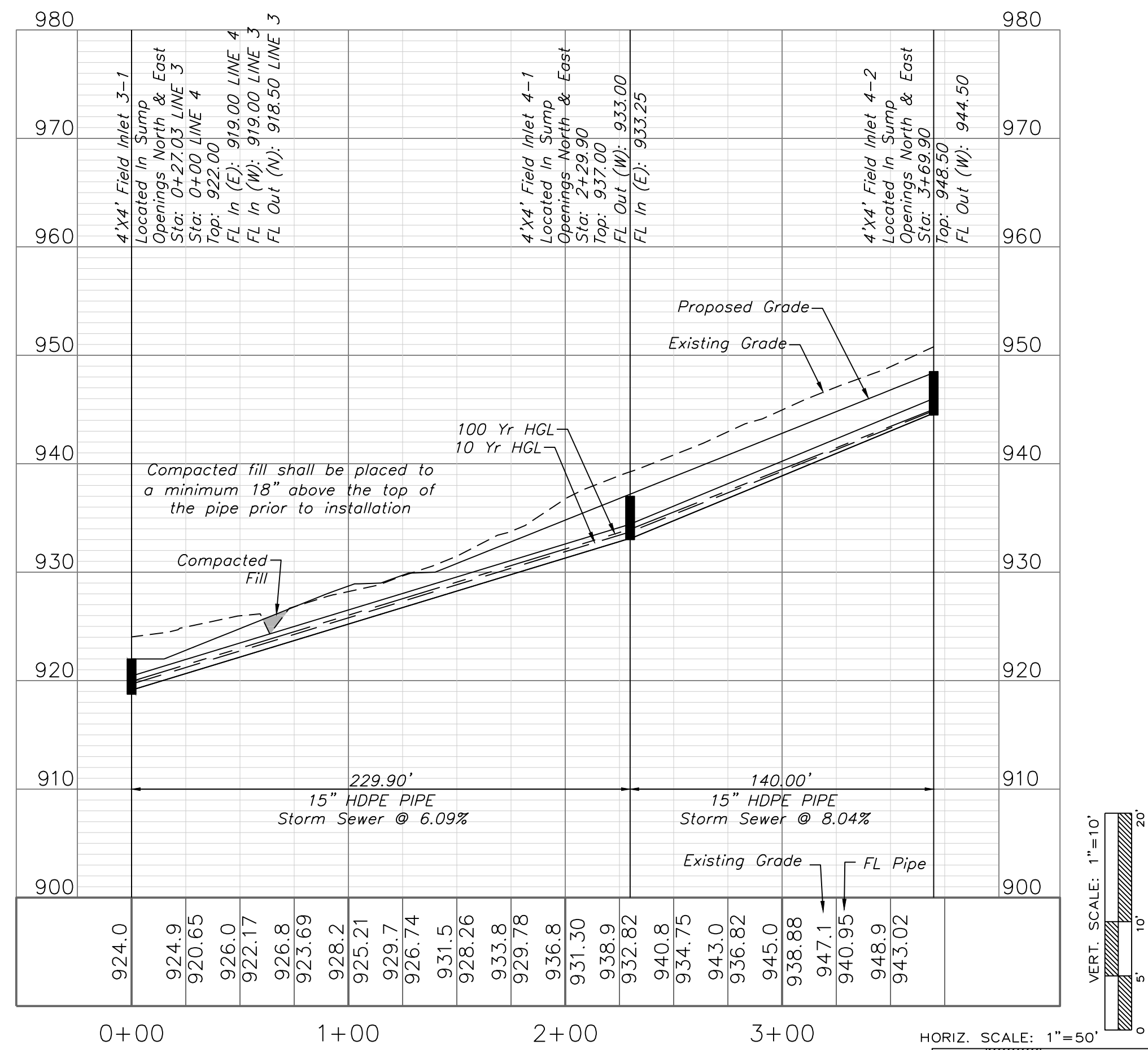


STORM SEWER PLAN & PROFILE

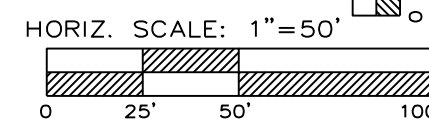
SCALE: 1" = 50'



STORM LINE 4



HORIZ. SCALE: 1"=50'

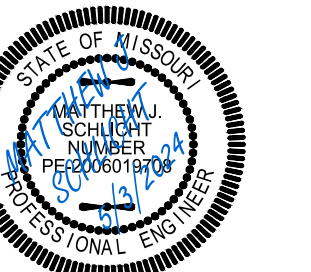


Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

THE TOWNHOMES OF CHAPEL RIDGE-2ND PLAT
LOTS 9-19 & TRACTS A-D
Lee's Summit, Jackson County, Missouri

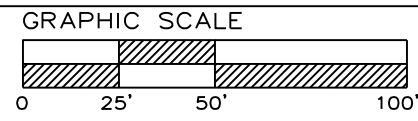
Project: TOWNHOMES OF CHAPEL RIDGE-2ND PLAT
PHASE 2, LSWO
Issue Date: May 3, 2024

Storm Sewer Plan and Profile
Construction Plans for:
THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
LOTS 20-37 & TRACTS E-F
Lee's Summit, Jackson County, Missouri



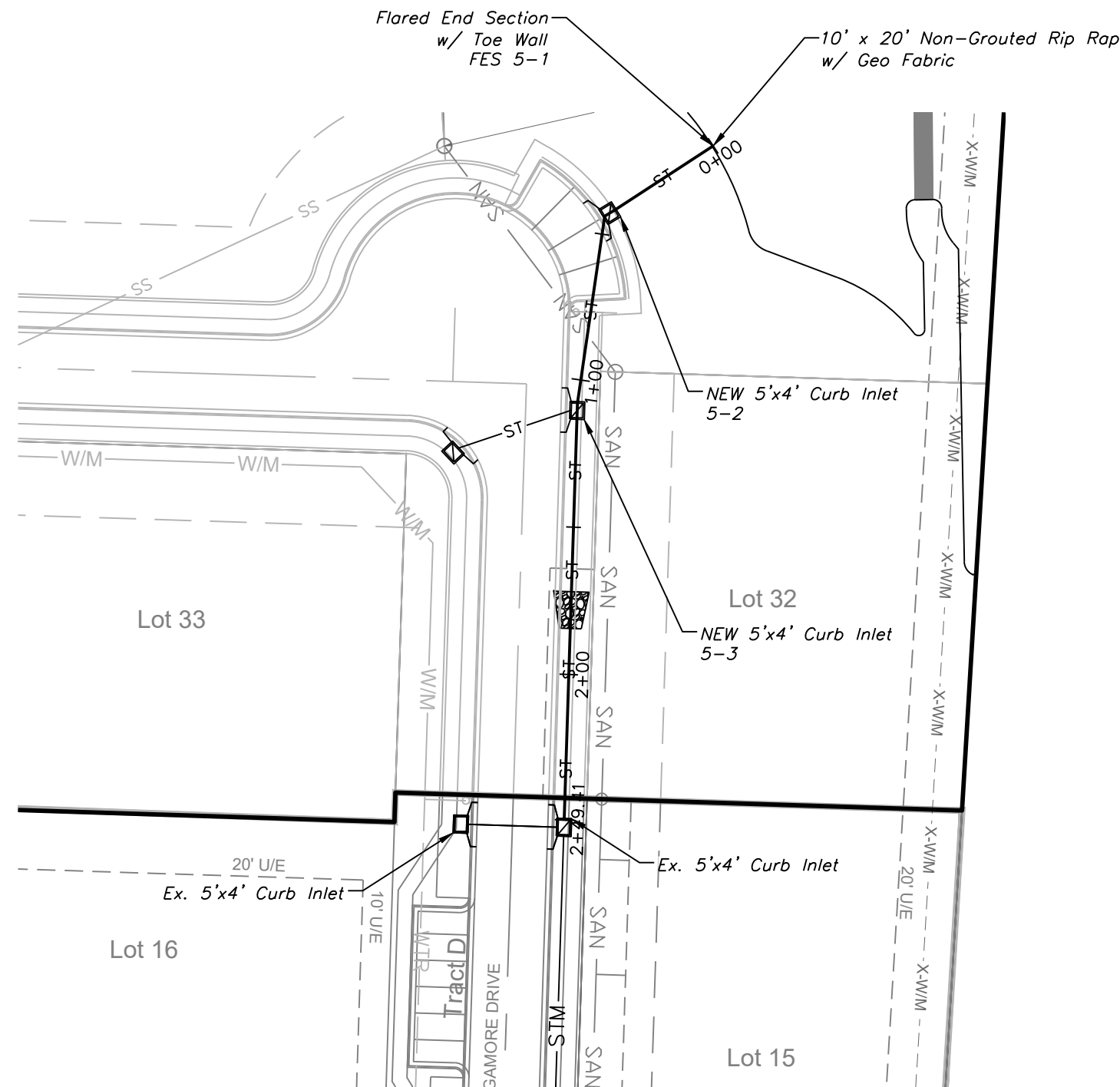
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-114335

REVISIONS

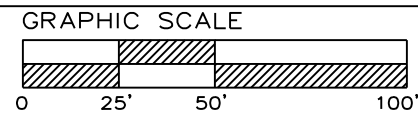
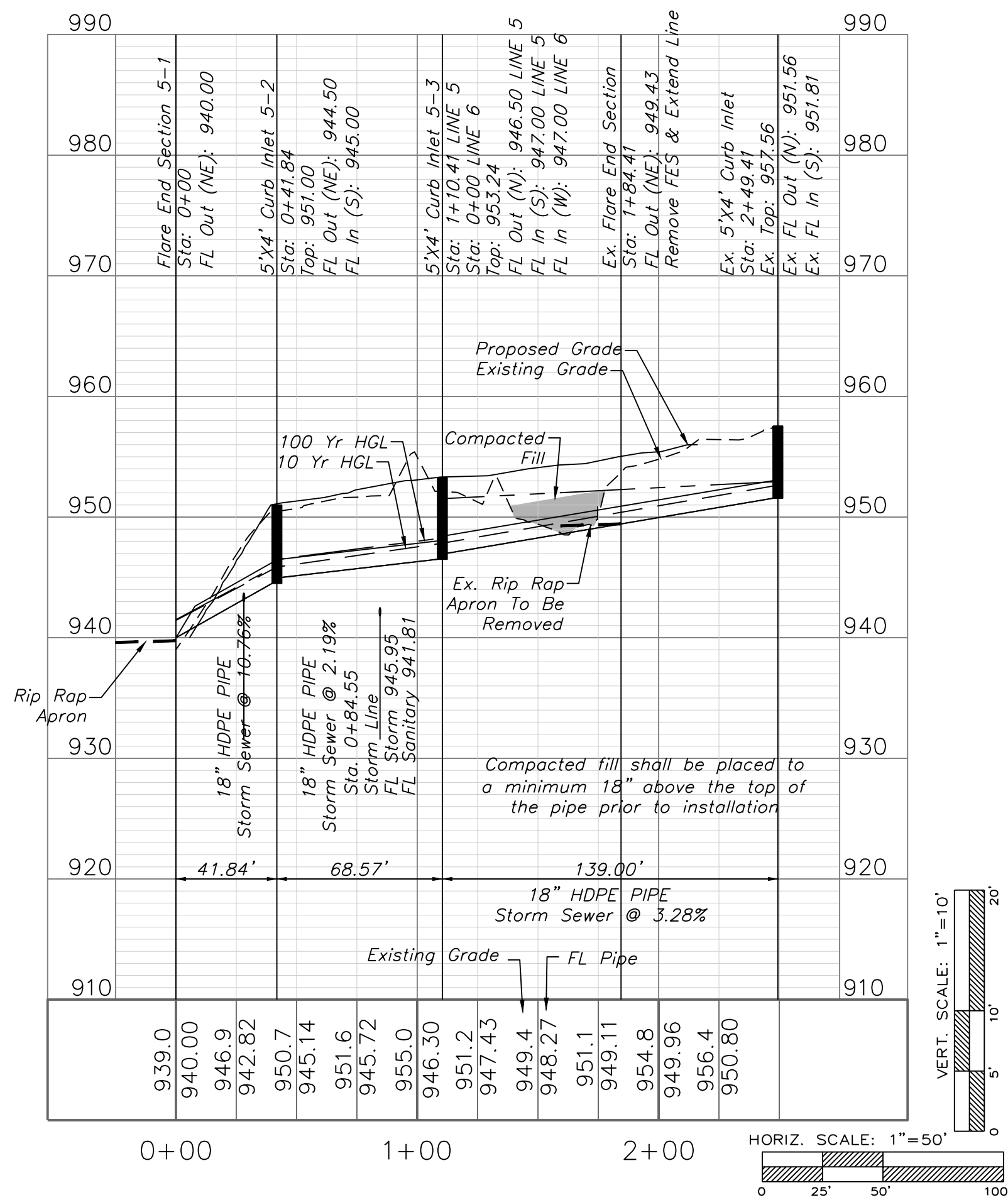


STORM SEWER PLAN & PROFILE

SCALE: 1" = 50'

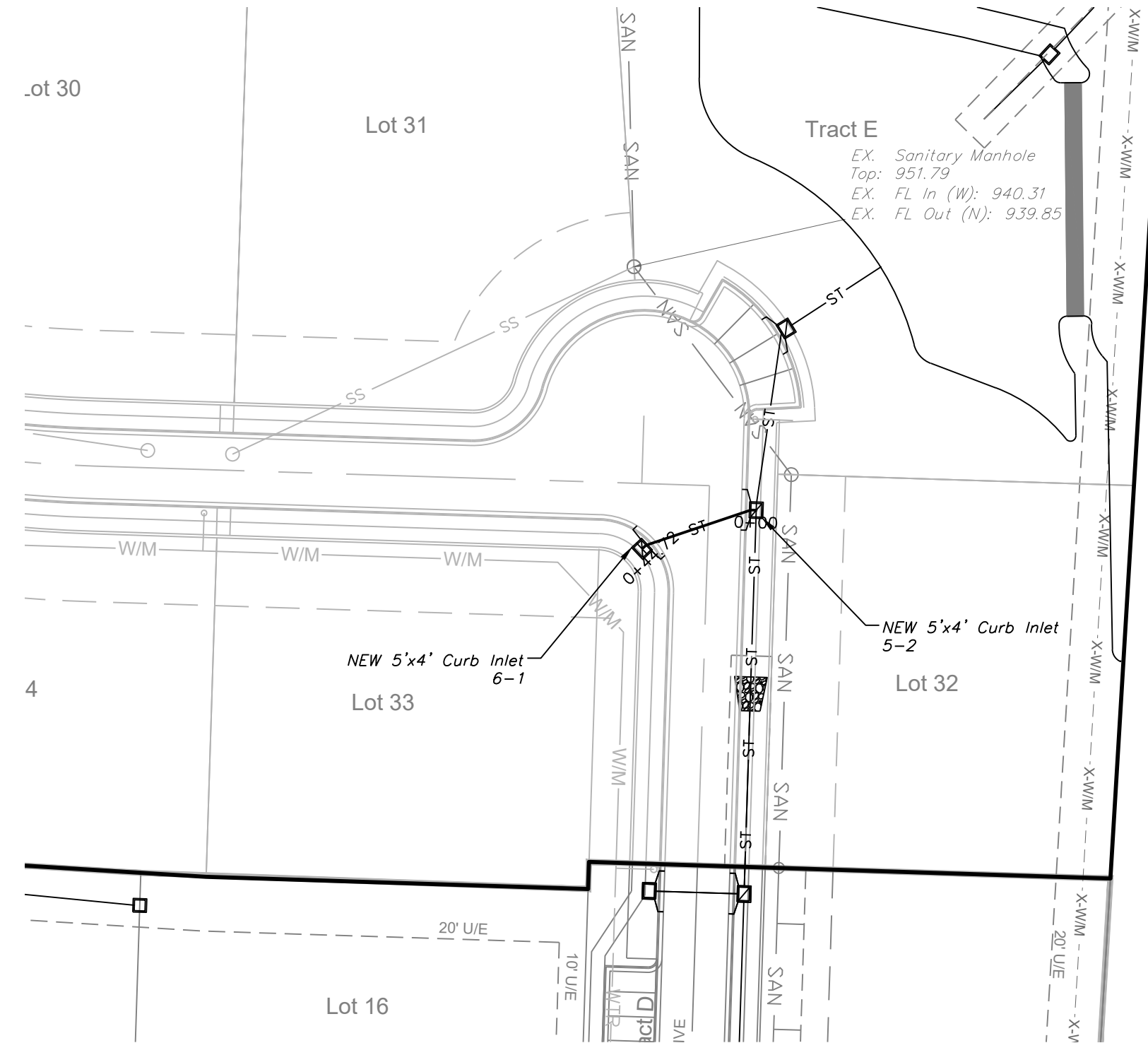


STORM LINE 5

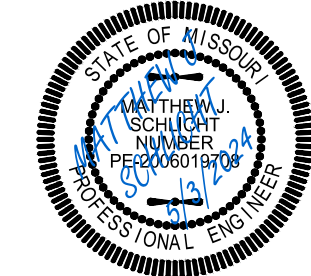
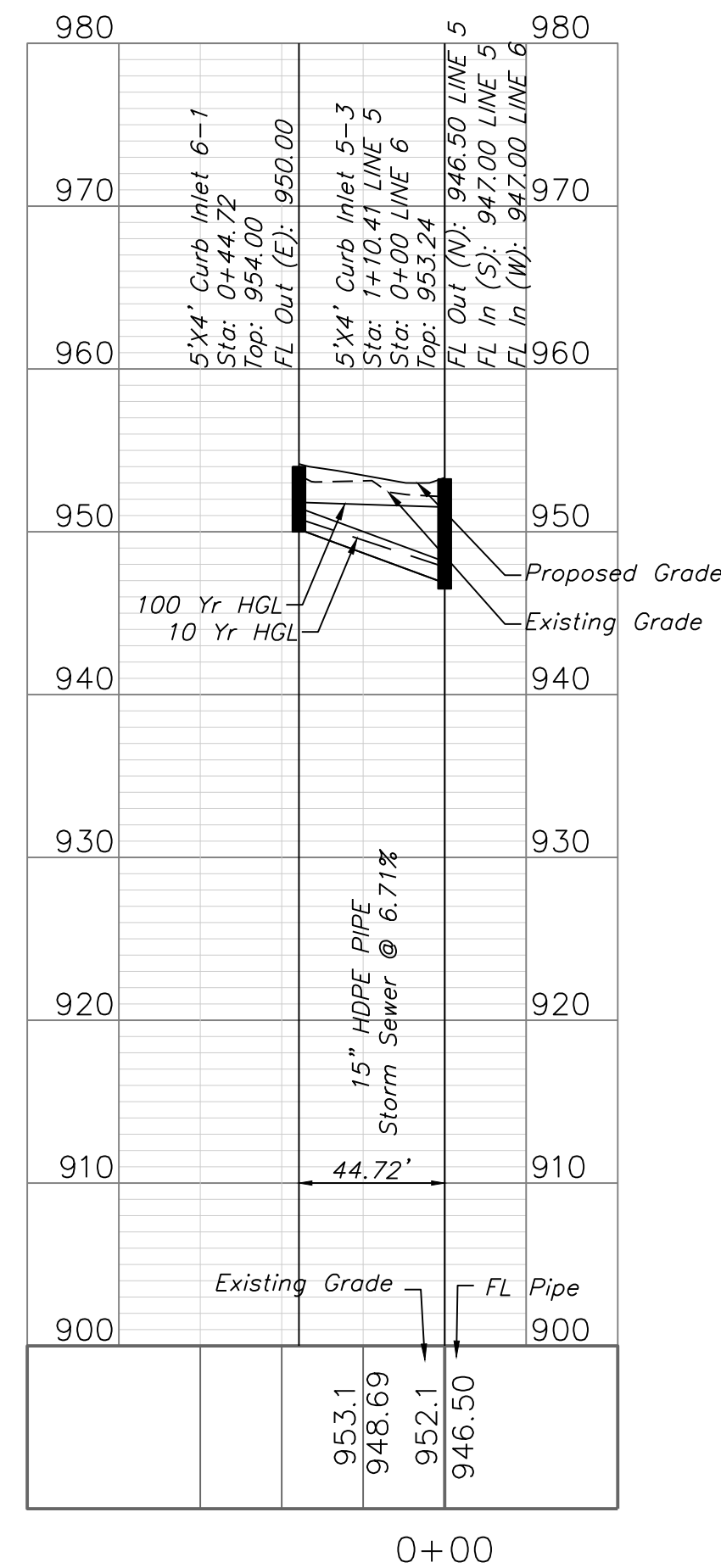


STORM SEWER PLAN & PROFILE

SCALE: 1" = 50'



STORM LINE 6



Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-1-143355

REVISIONS

Storm Sewer Plan and Profile
Construction Plans for:
THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
LOTS 20-37 & TRACTS E-F
Lee's Summit, Jackson County, Missouri

Project: TOWNHOMES AT
CHAPEL RIDGE
PHASE 2, LSWO
Issue Date:
May 3, 2024

THE TOWNHOMES OF CHAPEL RIDGE-2ND PLAT
LOTS 9-19 & TRACTS A-D
Lee's Summit, Jackson County, Missouri

Professional Registration
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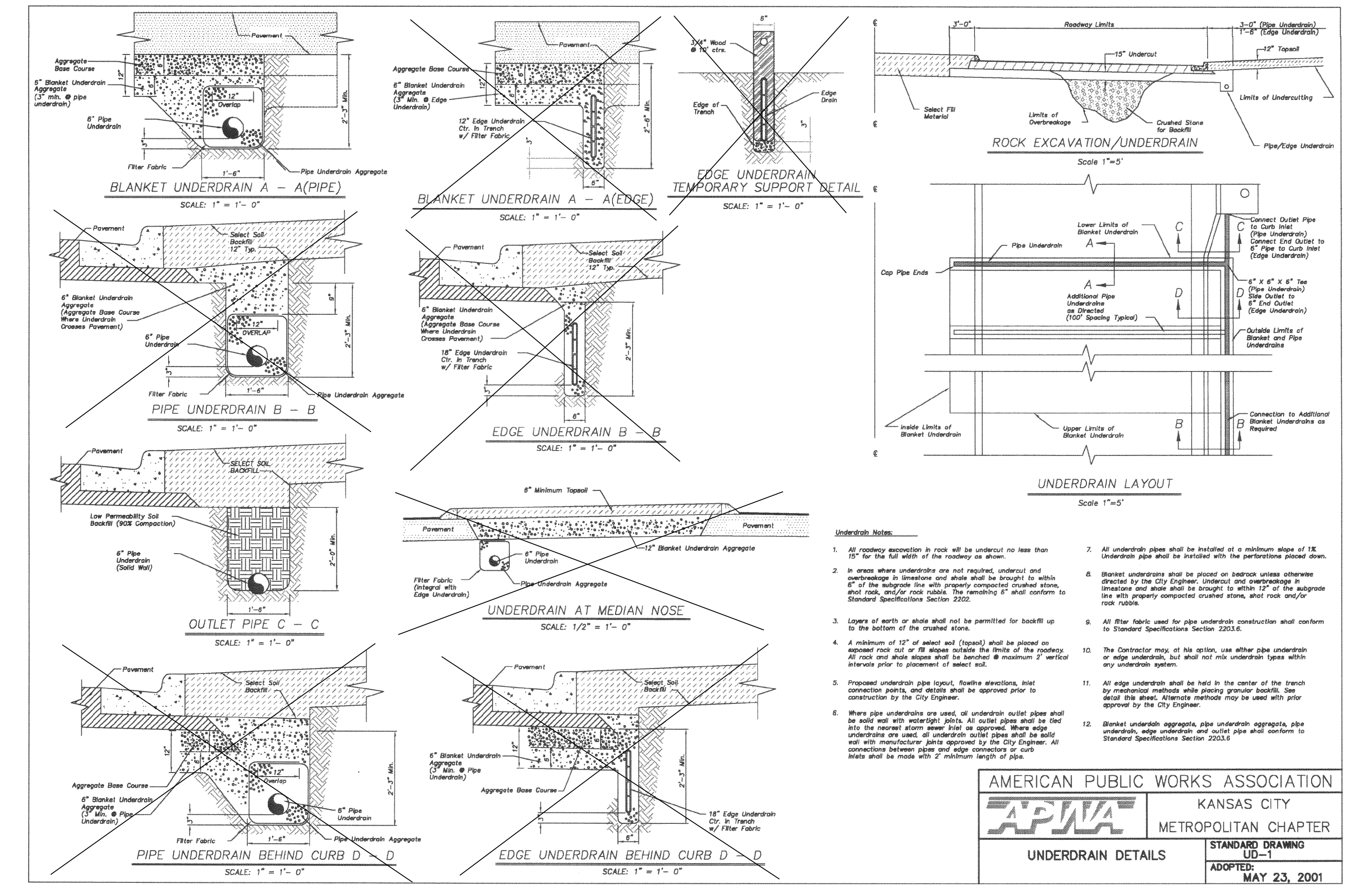
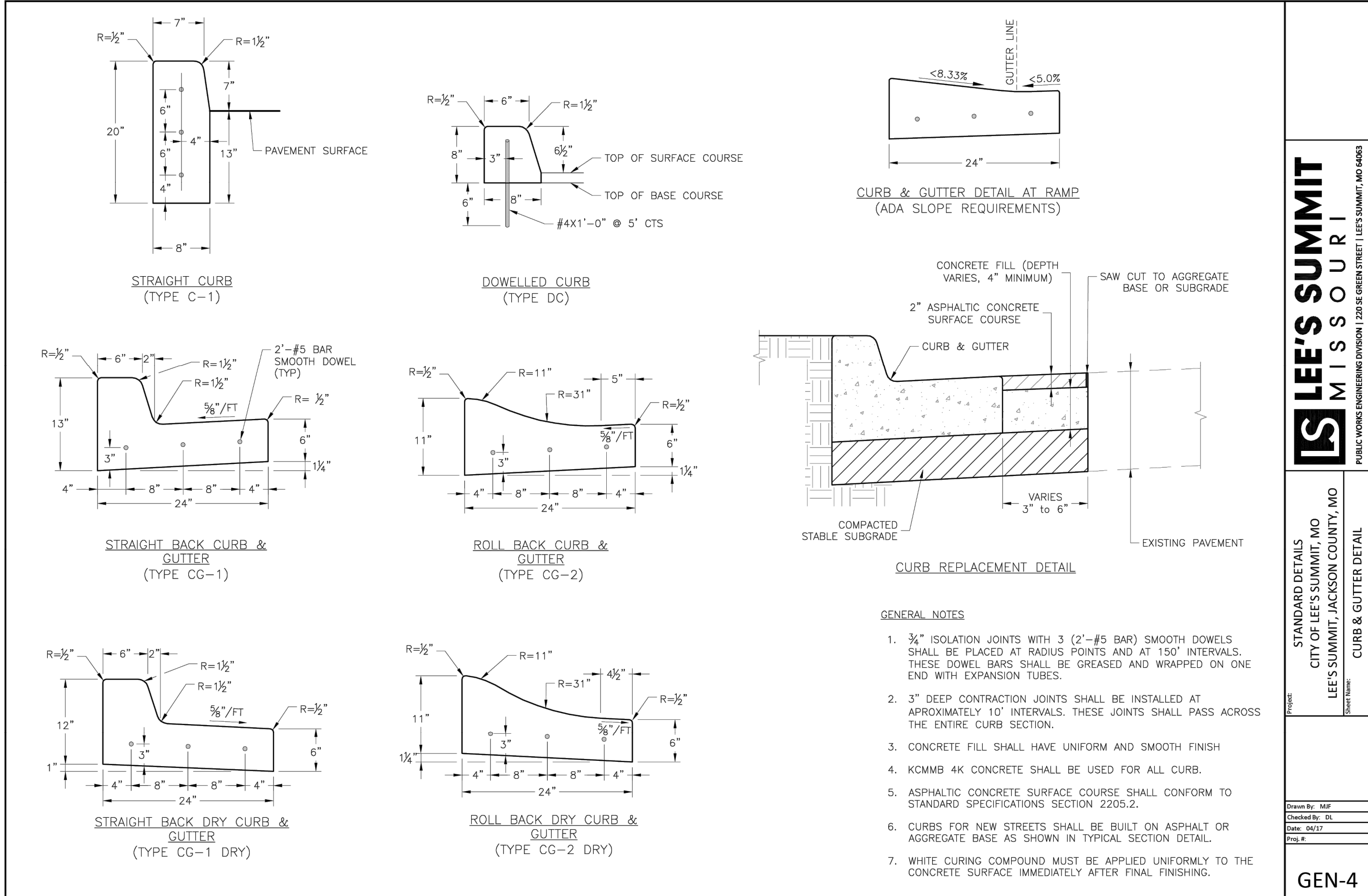
ENGINEERING
SOLUTIONS
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50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
P: (816) 623-9888 F: (816) 623-9849

10-YR STRUCTURE																							
D.S. Str.	Str. No.	Area	InletTime	Int.	RunoffCoeff.	Q=CIA	Q Carry-over	QCaptured	QBypassed	JunctType	CurbHeight	CurbLength	GutterSlope	GutterWidth	CrossSlope, Sw	CrossSlope, Sx	LocalDepr.	InletDepth	BypassDepth	BypassSpread	GutterDepth	GutterSpread	Bypass Str.
		(ac)	(min)	(in/hr)	(C)	(cfs)	(cfs)	(cfs)	(cfs)		(in)	(ft)	(ft/ft)	(ft)	(ft/ft)	(ft/ft)	(in)	(ft)	(ft)	(ft)	(ft)	(ft)	
EX CI	1-1	0.63	5.9	7.08	0.66	2.95	4.97	3.08	4.84	Curb	3.8	5	0.04	2	0.05	0.02	7	0.86	0.23	8.74	0.27	10.72	Offsite
1-1	1-2	0.07	5.7	7.14	0.66	0.33	0.02	0.35	0	Curb	3.8	5	0.017	2	0.05	0.02	7	0.7	0	0	0.11	2.74	1-1
1-2	1-3	0.14	5.8	7.11	0.66	0.66	0	0.64	0.02	Curb	3.8	5	0.07	2	0.05	0.02	7	0.69	0.03	0.61	0.11	2.57	1-2
1-3	1-4	0.71	6.1	7.03	0.66	3.29	0	1.82	1.47	Curb	3.8	5	0.07	2	0.05	0.02	7	0.77	0.15	4.36	0.19	6.52	1-1
1-4	EX FI	1.65	7.8	6.6	0.66	7.18	0	7.18	0	Dp-Curb	6	16	Sag	....	0.02	0.02	....	0.28	n/a	n/a	0.28	14.09	Sag
1-1	2-1	0.95	7	6.79	0.66	4.26	2	2.76	3.5	Curb	3.8	5	0.04	2	0.05	0.02	7	0.84	0.21	7.6	0.25	9.73	1-1
2-1	2-2	0.17	5.9	7.08	0.66	0.79	0.01	0.8	0.01	Curb	3.8	5	0.04	2	0.05	0.02	7	0.72	0.03	0.57	0.13	3.61	Offsite
2-2	2-3	0.16	6	7.06	0.66	0.75	0	0.73	0.01	Curb	3.8	5	0.048	2	0.05	0.02	7	0.71	0.03	0.56	0.12	3.23	2-2
2-3	2-4	0.94	7.1	6.77	0.66	4.2	0	2.2	2	Curb	3.8	5	0.048	2	0.05	0.02	7	0.8	0.17	5.63	0.22	7.91	2-1
EX FI	3-1	1.03	5.8	7.11	0.66	4.83	0	4.83	0	Dp-Curb	6	16	Sag	....	0.02	0.02	....	0.22	n/a	n/a	0.22	10.82	Sag
3-1	3-2	0.42	5.3	7.26	0.66	2.01	0	2.01	0	Dp-Curb	6	12	Sag	....	0.02	0.02	....	0.15	n/a	n/a	0.15	7.3	Sag
3-1	4-1	0.5	6.8	6.84	0.66	2.26	0	2.26	0	Dp-Curb	6	12	Sag	....	0.02	0.02	....	0.16	n/a	n/a	0.16	7.89	Sag
4-1	4-2	0.21	5.6	7.17	0.66	0.99	0	0.99	0	Dp-Curb	6	12	Sag	....	0.02	0.02	....	0.09	n/a	n/a	0.09	4.56	Sag
5-1	5-2	0.23	6.3	6.98	0.66	1.06	0	1.06	0	Curb	3.8	5	Sag	2	0.05	0.02	7	0.79	n/a	n/a	0.2	7.1	Sag
5-2	5-3	0.2	6.5	6.92	0.66	0.91	0	0.91	0	Curb	3.8	5	0.016	2	0.05	0.02	7	0.74	0	0	0.16	5.01	5-2
5-3	EX CI	1.71	6.4	6.95	0.66	7.84	0	7.84	0	Curb	3.8	5	Sag	2	0.05	0.02	7	1.18	n/a	n/a	0.6	26.98	Sag
5-2	6-1	0.82	5.8	7.11	0.66	3.85	0	3.85	0	Curb	3.8	5	Sag	2	0.05	0.02	7	0.98	n/a	n/a	0.4	16.78	Sag

10-YR PIPE																						
D.S. Str.	U.S. Str.	LineLength (ft)	Incr.Area (ac)	TotalArea (ac)	RunoffCoeff. (C)	IncrC x A	TotalC x A	InletTime (min)	TimeConc (min)	RnfalInt (in/hr)	TotalRunoff (cfs)	TotalFlow (cfs)	CapacFull (cfs)	Veloc (ft/s)	PipeSize (in)	PipeSlope (%)	Inv ElevDn (ft)	Inv ElevUp (ft)	HGLDn (ft)	HGLUp (ft)	Grnd/RimDn (ft)	Grnd/RimUp (ft)
EX CI	1-1	161.46	0.63	5.42	0.66	0.42	3.58	5.9	8.8	6.4	22.8	22.8	65.45	7.77	24	4.95	915.00	923.00	916.85	924.70	0.00	927.40
1-1	1-2	64.45	0.07	2.57	0.66	0.05	1.7	5.7	8.6	6.4	10.87	10.87	29.45	7.01	18	4.65	923.50	926.50	924.70	927.76	927.40	931.00
1-2	1-3	104.42	0.14	2.5	0.66	0.09	1.65	5.8	8.4	6.5	10.64	10.64	25.87	9.27	18	3.59	927.00	930.75	927.76	932.00	931.00	935.87
1-3	1-4	37.66	0.71	2.36	0.66	0.47	1.56	6.1	8.3	6.5	10.08	10.08	13.16	7.37	18	0.93	931.25	931.60	932.23	932.82	935.87	936.80
1-4	EX FI	183.22	1.65	1.65	0.66	1.09	1.09	7.8	7.8	6.6	7.18	7.18	27.44	5.56	18	4.04	931.80	939.20	932.82	940.24	936.80	945.00
1-1	2-1	173.49	0.95	2.22	0.66	0.63	1.47	7	7.8	6.6	9.66	9.66	25.39	6.38	18	3.46	923.50	929.50	924.70	930.70	927.40	933.85
2-1	2-2	55.23	0.17	1.27	0.66	0.11	0.84	5.9	7.7	6.6	5.55	5.55	12.63	6.7	15	2.26	930.00	931.25	930.70	932.20	933.85	935.64
2-2	2-3	257.25	0.16	1.1	0.66	0.11	0.73	6	7.2	6.7	4.9	4.9	17.94	8.68	15	4.57	931.75	943.50	932.20	944.40	935.64	947.88
2-3	2-4	36.49	0.94	0.94	0.66	0.62	0.62	7.1	7.1	6.8	4.2	4.2	9.83	6.28	15	1.37	944.00	944.50	944.57	945.33	947.88	948.35
EX FI	3-1	23.07	1.03	2.16	0.66	0.68	1.43	5.8	7.6	6.6	9.46	9.46	18.42	5.99	18	1.82	918.08	918.50	919.42	919.69	0.00	922.00
3-1	3-2	252.97	0.42	0.42	0.66	0.28	0.28	5.3	5.3	7.3	2.01	2.01	6.98	3.32	15	0.69	919.00	920.75	919.69	921.31	922.00	924.00
3-1	4-1	229.9	0.5	0.71	0.66	0.33	0.47	6.8	6.8	6.8	3.21	3.21	20.72	4.51	15	6.09	919.00	933.00	919.69	933.72	922.00	937.00
4-1	4-2	140	0.21	0.21	0.66	0.14	0.14	5.6	5.6	7.2	0.99	0.99	23.8	2.69	15	8.04	933.25	944.50	933.72	944.89	937.00	948.50
5-1	5-2	41.84	0.23	2.96	0.66	0.15	1.95	6.3	6.9	6.8	13.34	13.34	44.77	7.8	18	10.76	940.00	944.50	941.43	945.86	0.00	951.00
5-2	5-3	68.57	0.2	2.73	0.66	0.13	1.8	6.5	6.7	6.9	12.36	12.36	20.19	9.62	18	2.19	945.00	946.50	945.86	947.83	951.00	953.24
5-3	EX CI	139	1.71	1.71	0.66	1.13	1.13	6.4	6.4	6.9	7.84	7.84	24.73	6.79	18	3.28	947.00	951.56	947.83	952.64	953.24	957.56
5-2	6-1	44.72	0.82	0.82	0.66	0.54	0.54	5.8	5.8	7.1	3.85	3.85	21.74	4.58	15	6.71	947.00	950.00	947.83	950.79	953.24	954.00

100-YR STRUCTURE																							
D.S. Str.	Str. No.	Area	InletTime	Int.	RunoffCoeff.	Q=CIA	Q Carry-over	QCaptured	QBypassed	JunctType	CurbHeight	CurbLength	GutterSlope	GutterWidth	CrossSlope, Sw	CrossSlope, Sx	LocalDepr.	InletDepth	BypassDepth	BypassSpread	GutterDepth	GutterSpread	Bypass Str.
		(ac)	(min)	(in/hr)	(C)	(cfs)	(cfs)	(cfs)	(cfs)		(in)	(ft)	(ft/ft)	(ft)	(ft/ft)	(ft/ft)	(in)	(ft)	(ft)	(ft)	(ft)	(ft)	
EX CI	1-1	0.63	5.9	12.48	0.66	5.19	11.75	4.3	12.63	Curb	3.8	5	0.04	2	0.05	0.02	7	0.93	0.32	12.93	0.35	14.51	Offsite
1-1	1-2	0.07	5.7	12.57	0.66	0.58	0.18	0.76	0	Curb	3.8	5	0.017	2	0.05	0.02	7	0.73	0	0	0.15	4.46	1-1
1-2	1-3	0.14	5.8	12.52	0.66	1.16	0	0.98	0.18	Curb	3.8	5	0.07	2	0.05	0.02	7	0.72	0.07	1.36	0.14	3.79	1-2
1-3	1-4	0.71	6.1	12.39	0.66	5.8	0	2.41	3.4	Curb	3.8	5	0.07	2	0.05	0.02	7	0.81	0.19	6.62	0.23	8.38	1-1
1-4	EX FI	1.65	7.8	11.68	0.66	12.72	0	12.72	0	Dp-Curb	6	16	Sag	....	0.02	0.02	....	0.41	n/a	n/a	0.41	20.62	Sag
1-1	2-1	0.95	7	12	0.66	7.53	4.53	3.71	8.35	Curb	3.8	5	0.04	2	0.05	0.02	7	0.9	0.28	10.94	0.31	12.69	1-1
2-1	2-2	0.17	5.9	12.48	0.66	1.4	0.18	1.31	0.27	Curb	3.8	5	0.04	2	0.05	0.02	7	0.75	0.09	1.78	0.16	5.25	Offsite
2-2	2-3	0.16	6	12.43	0.66	1.31	0	1.13	0.18	Curb	3.8	5	0.048	2	0.05	0.02	7	0.73	0.07	1.49	0.15	4.54	2-2
2-3	2-4	0.94	7.1	11.96	0.66	7.42	0	2.89	4.53	Curb	3.8	5	0.048	2	0.05	0.02	7	0.84	0.22	8.17	0.26	10.05	2-1
EX FI	3-1	1.03	5.8	12.52	0.66	8.51	0	8.51	0	Dp-Curb	6	16	Sag	....	0.02	0.02	....	0.32	n/a	n/a	0.32	15.77	Sag
3-1	3-2	0.42	5.3	12.75	0.66	3.53	0	3.53	0	Dp-Curb	6	12	Sag	....	0.02	0.02	....	0.21	n/a	n/a	0.21	10.63	Sag
3-1	4-1	0.5	6.8	12.08	0.66	3.99	0	3.99	0	Dp-Curb	6	12	Sag	....	0.02	0.02	....	0.23	n/a	n/a	0.23	11.52	Sag
4-1	4-2	0.21	5.6	12.61	0.66	1.75	0	1.75	0	Dp-Curb	6	12	Sag	....	0.02	0.02	....	0.13	n/a	n/a	0.13	6.65	Sag
5-1	5-2	0.23	6.3	12.3	0.66	1.87	0.13	1.99	0	Curb	3.8	5	Sag	2	0.05	0.02	7	0.86	n/a	n/a	0.28	10.82	Sag
5-2	5-3	0.2	6.5	12.21	0.66	1.61	0	1.48	0.13	Curb	3.8	5	0.016	2	0.05	0.02	7	0.78	0.08	1.59	0.19	6.59	5-2
5-3	EX CI	1.71	6.4	12.26	0.66	13.83	0	13.83	0	Curb	3.8	5	Sag	2	0.05	0.02	7	1.43	n/a	n/a	0.85	39.39	Sag
5-2	6-1	0.82	5.8	12.52	0.66	6.78	0	6.78	0	Curb	3.8	5	Sag	2	0.05	0.02	7	1.13	n/a	n/a	0.55	24.47	Sag

100-YR PIPE																						
D.S. Str.	U.S. Str.	LineLength	Incr.Area	TotalArea	RunoffCoeff.	IncrC x A	TotalC x A	InletTime	TimeConc	RnfalInt	TotalRunoff	TotalFlow	CapacFull	Veloc	PipeSize	PipeSlope	Inv ElevDn	Inv ElevUp	HGLDn	HGLUp	Grnd/RimDn	Grnd/RimUp
		(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
EX CI	1-1	161.46	0.63	5.42	0.66	0.42	3.58	5.9	8.5	11.4	40.84	40.84	65.45	13.05	24	4.95	915.00	923.00	916.98	924.96	0.00	927.40
1-1	1-2	64.45	0.07	2.57	0.66	0.05	1.7	5.7	8.4	11.5	19.42	19.42	29.45	11.08	18	4.65	923.50	926.50	924.96	927.96	927.40	931.00
1-2	1-3	104.42	0.14	2.5	0.66	0.09	1.65	5.8	8.3	11.5	18.98	18.98	25.87	13.32	18	3.59	927.00	930.75	927.96	932.21	931.00	935.87
1-3	1-4	37.66	0.71	2.36	0.66	0.47	1.56	6.1	8.2	11.5	17.95	17.95	13.16	10.16	18	0.93	931.25	931.60	932.75	933.40	935.87	936.80
1-4	EX FI	183.22	1.65	1.65	0.66	1.09	1.09	7.8	7.8	11.7	12.72	12.72	27.44	7.42	18	4.04	931.80	939.20	934.20	940.54	936.80	945.00
1-1	2-1	173.49	0.95	2.22	0.66	0.63	1.47	7	7.7	11.7	17.17	17.17	25.39	9.82	18	3.46	923.50	929.50	924.96	930.94	927.40	933.85
2-1	2-2	55.23	0.17	1.27	0.66	0.11	0.84	5.9	7.6	11.8	9.85	9.85	12.63	9.08	15	2.26	930.00	931.25	930.94	932.43	933.85	935.64
2-2	2-3	257.25	0.16	1.1	0.66	0.11	0.73	6	7.2	11.9	8.66	8.66	17.94	10.03	15	4.57	931.75	940.50	932.43	944.64	935.64	947.88
2-3	2-4	36.49	0.94	0.94	0.66	0.62	0.62	7.1	7.1	12	7.42	7.42	9.83	7.68	15	1.37	944.00	944.50	944.81	945.58	947.88	948.35
EX FI	3-1	23.07	1.03	2.16	0.66	0.68	1.43	5.8	7.5	11.8	16.83	16.83	18.42	9.62	18	1.82	918.08	919.50	919.55	919.94	0.00	922.00
3-1	3-2	252.97	0.42	0.42	0.66	0.28	0.28	5.3	5.3	12.8	3.53	3.53	6.98	4.06	15	0.69	919.00	920.75	919.94	921.51	922.00	924.00
3-1	4-1	229.9	0.5	0.71	0.66	0.33	0.47	6.8	6.8	12.1	5.66	5.66	20.72	5.66	15	6.09	919.00	933.00	919.94	933.96	922.00	937.00
4-1	4-2	140	0.21	0.21	0.66	0.14	0.14	5.6	5.6	12.6	1.75	1.75	23.8	3	15	8.04	933.25	944.50	933.96	945.02	937.00	948.50
5-1	5-2	41.84	0.23	2.96	0.66	0.15	1.95	6.3	6.8	12.1	23.62	23.62	44.77	13.39	18	10.76	940.00	944.50	941.49	945.98	0.00	951.00
5-2	5-3	68.57	0.2	2.73	0.66	0.13	1.8	6.5	6.7	12.1	21.86	21.86	20.19	12.37	18	2.19	945.00	946.50	946.50	946.26	951.00	953.24
5-3	EX CI	139	1.71	1.71	0.66	1.13	1.13	6.4	6.4	12.3	13.83	13.83	24.73	7.99	18	3.28	947.00	951.56	951.52	952.94	953.24	957.56
5-2	6-1	44.72	0.82	0.82	0.66	0.54	0.54	5.8	5.8	12.5	6.78	6.78	21.74	5.52	15	6.71	947.00	950.00	951.52	951.81	953.24	954.00



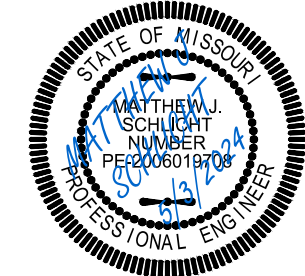
GENERAL NOTE:
1 - ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.

Construction Details

THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
LOTS 20-37 & TRACTS E-F

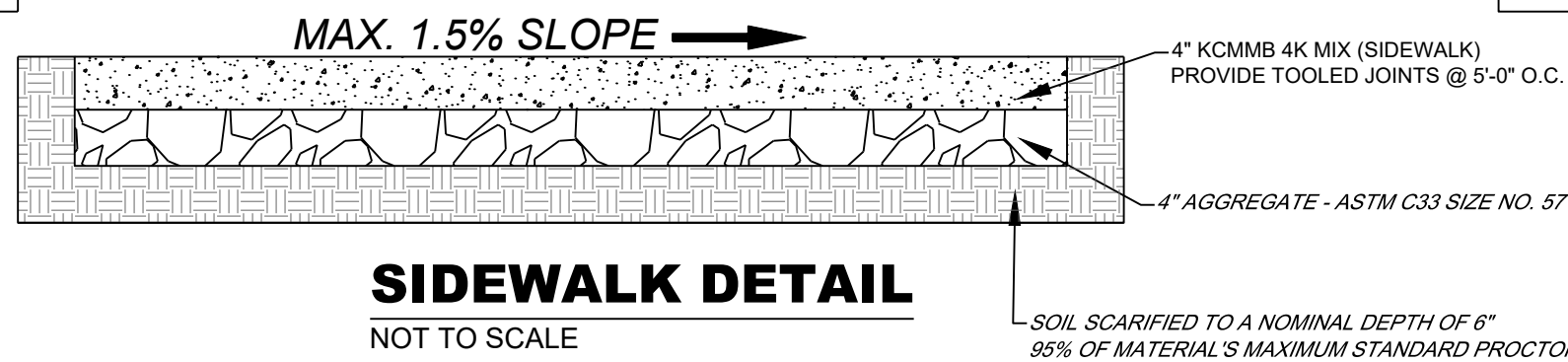
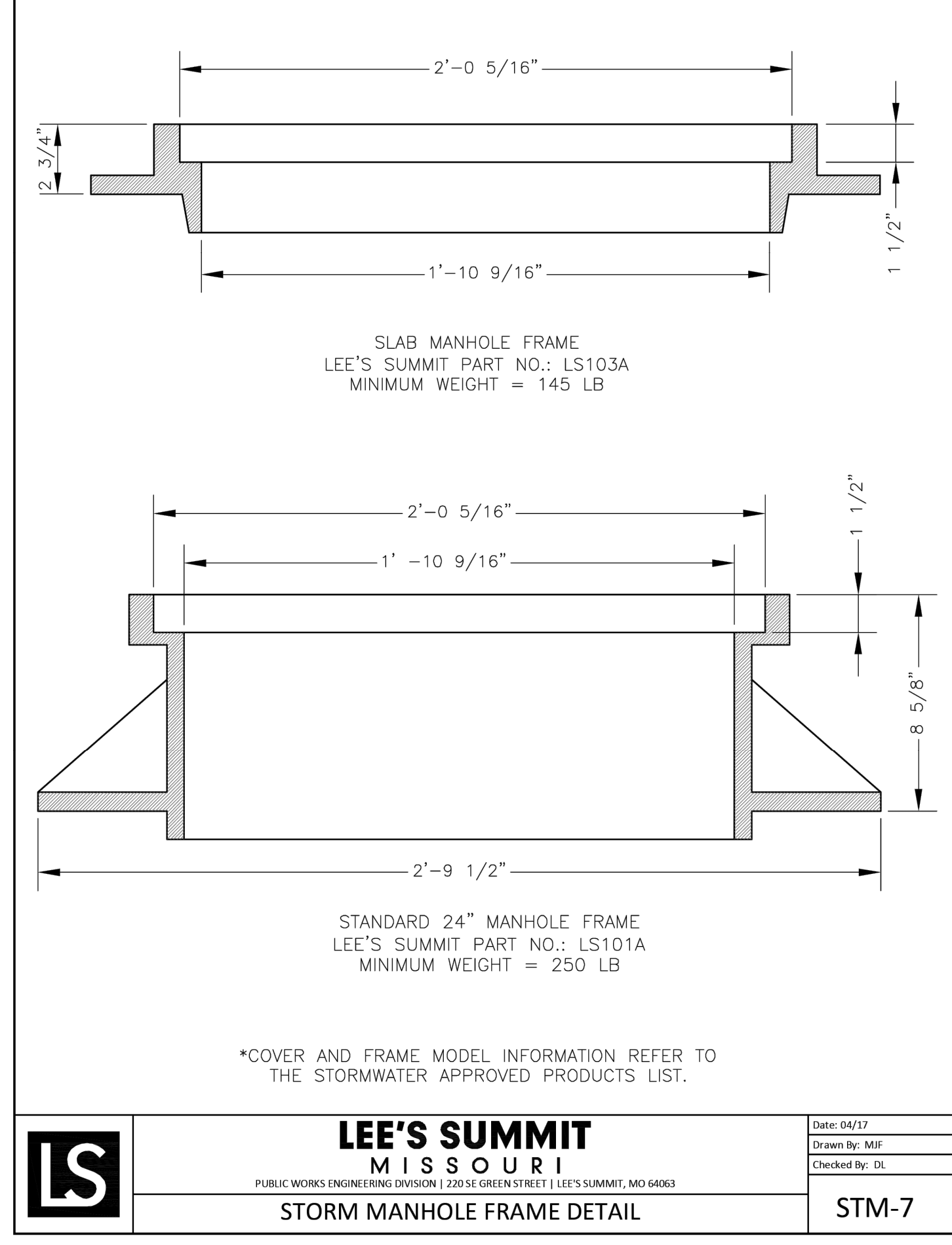
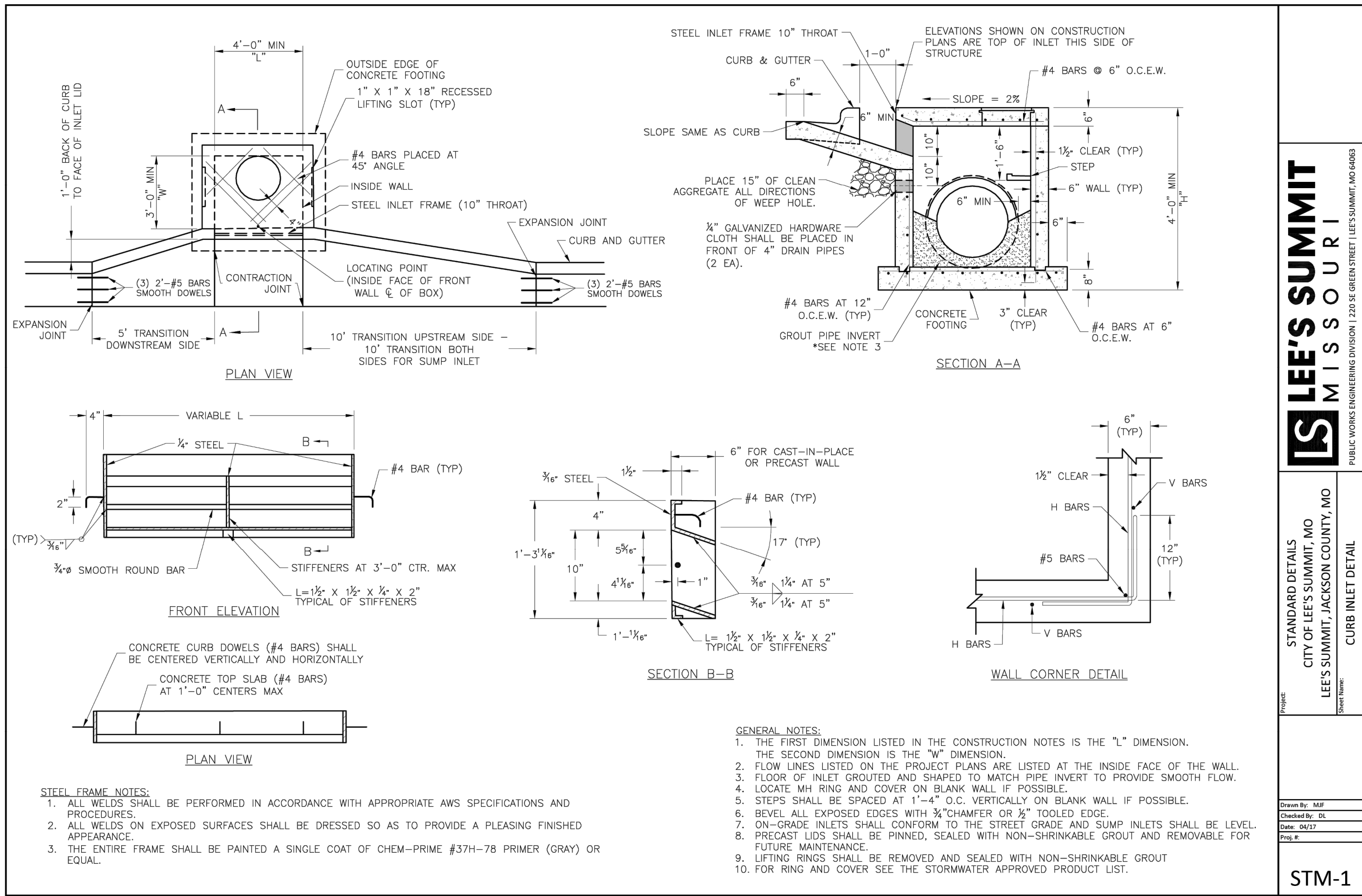
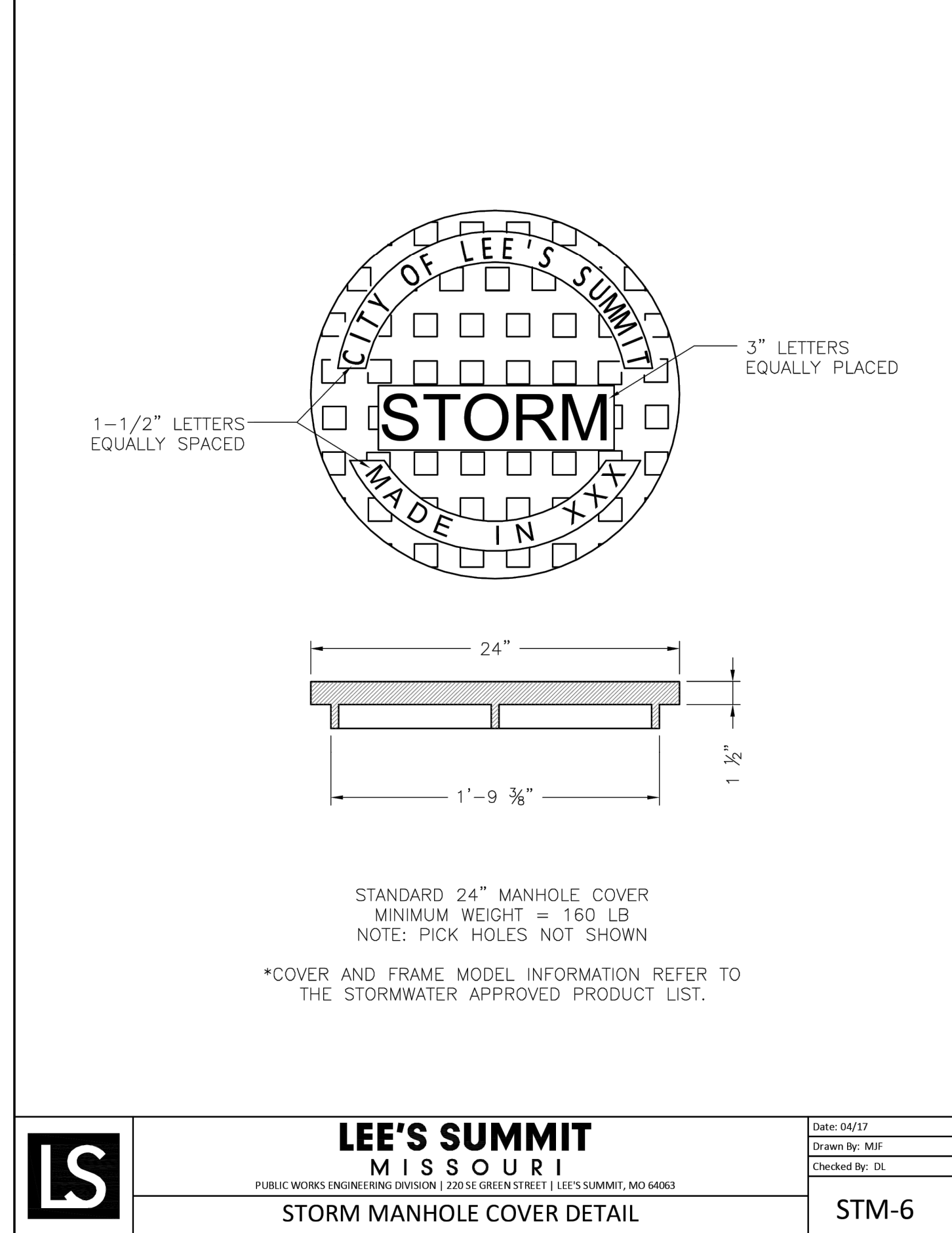
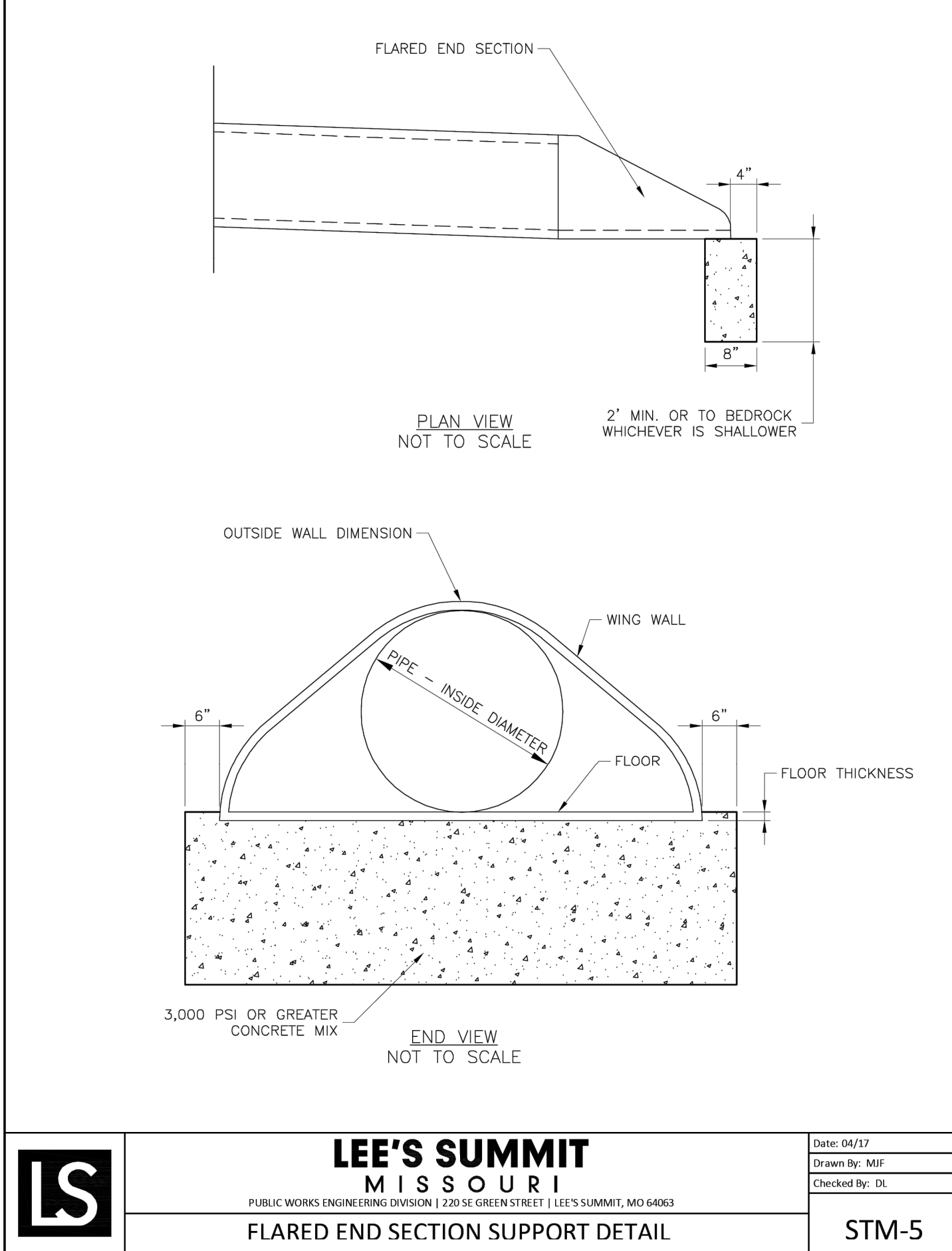
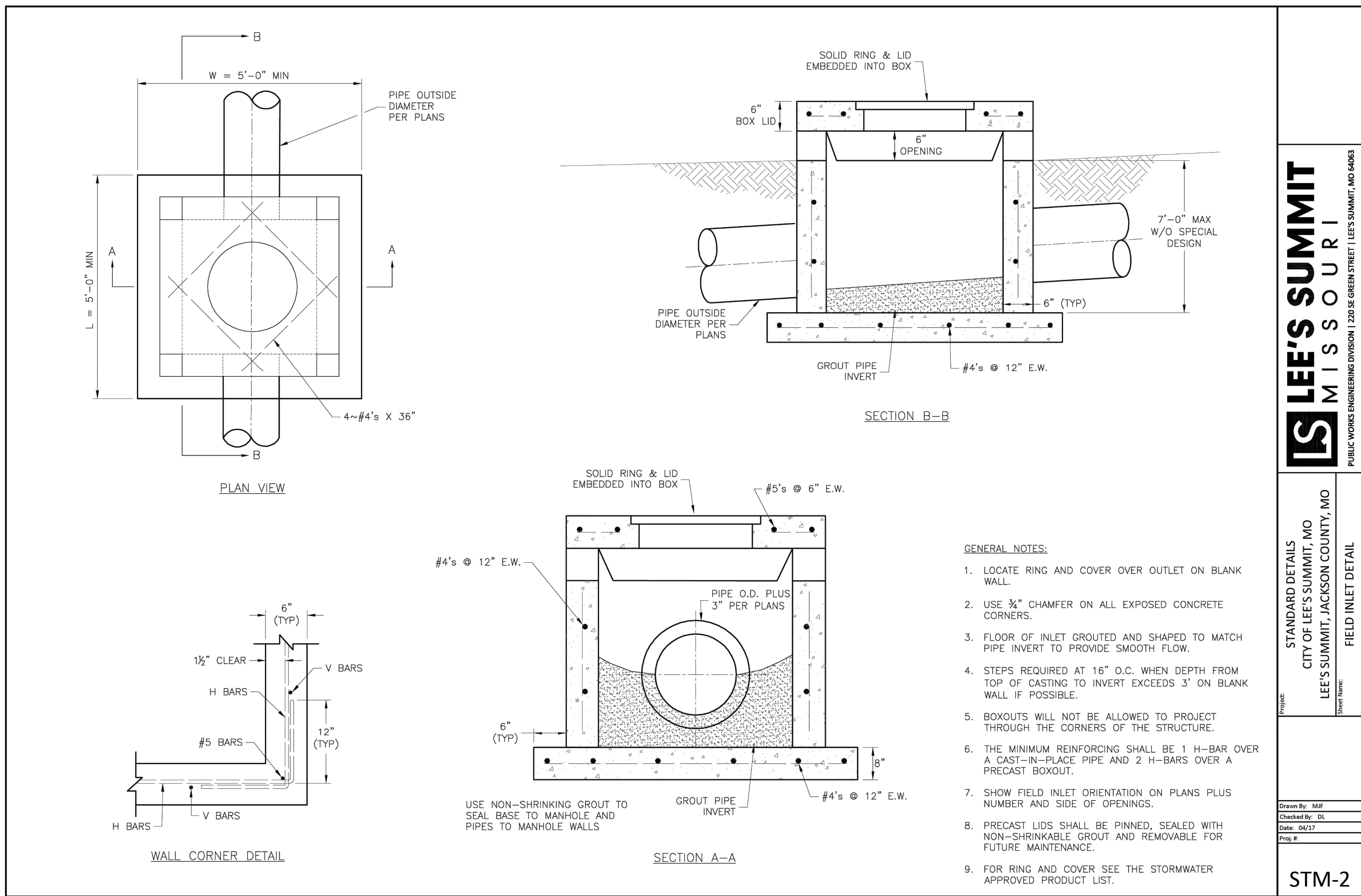
Lee's Summit, Jackson County, Missouri

Project: THE TOWNHOMES AT CHAPEL RIDGE
Phase: 2, LSWO
Issue Date: May 3, 2024



Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS



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