

2 REVISED MAIN TITLE AND
TITLEBLOCK TO MATCH THE
PLAT TITLE THROUGHOUT
PLAN SET.

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

 REVISED NOTE 1.

1 ~ STREET PAVEMENT SHALL CONSIST OF TYPE CG-1 AND 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.

4" ASPHALT BASE KCMMB MIX AND 2" TYPE ASPHALT KCMMB MIX SURFACE OVER 6" MoDOT TYPE 5 BASE OVERTOP A BIAXIAL GEOGRID PER THE CITY'S APPROVED PRODUCT LIST.

RESIDENTIAL COLLECTOR STREET FOR SW ARBORWALK BLVD SEE BELOW FOR TYPICAL SECTION.

4" ASPHALT BASE KCMMB MIX AND 2" TYPE ASPHALT KCMMB MIX SURFACE OVER 6" 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 LEES SUMMIT DESIGN AND CONSTRUCTION MANUAL.

3 - JUNCTION BOXES SHALL BE PER CITY OF LEES SUMMIT STANDARD DRAWING NO. STM-3. FIELD INLETS SHALL BE PER CITY OF LEES SUMMIT STANDARD DRAWING STM-2. TOEWALLS SHALL BE PER CITY OF LEES SUMMIT DRAWING NO. STM-5. CURB INLETS SHALL BE PER CITY OF LEES SUMMIT STM-1. ROCK LINING AND RIP RAP SHALL BE PER CITY OF LEES SUMMIT.

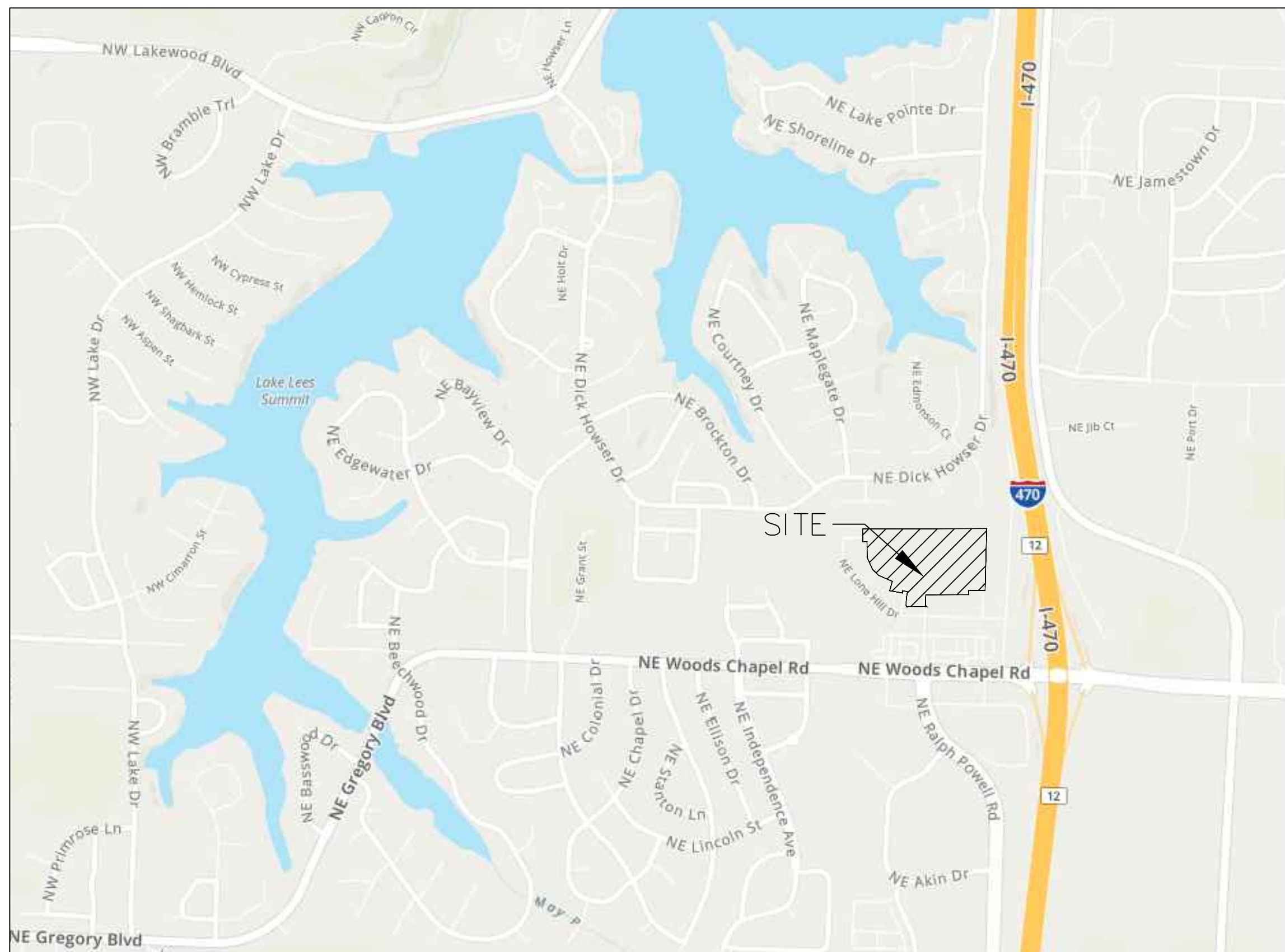
- 1 - ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
- 2 - ALL REQUIRED EASEMENTS WITHIN THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR ON THE FINAL PLAT.
- 3 - ANY REQUIRED EASEMENT LOCATED OUTSIDE OF THE BOUNDARY OF THIS PROJECT 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.

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

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.

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

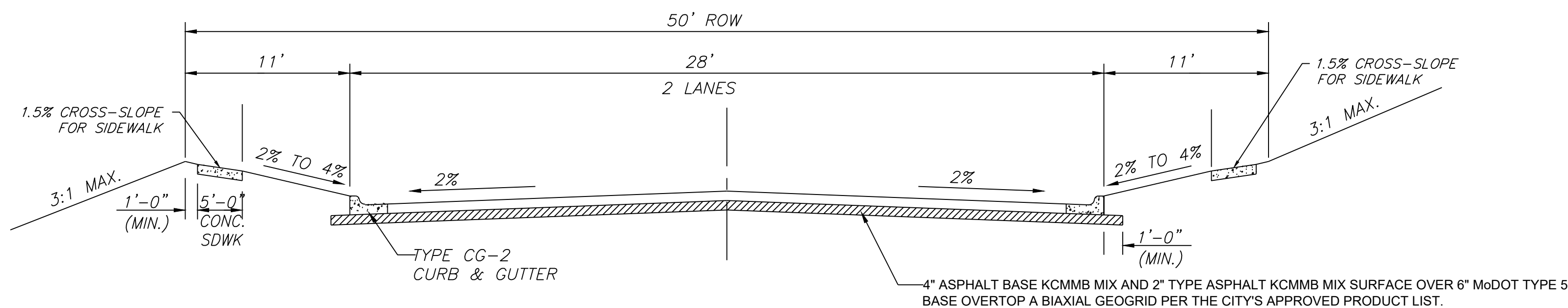


LEGEND:

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

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	836.60
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

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.



TYPICAL SECTION
(RESIDENTIAL STREET)



ENGINEERING
—ENGINEERING & SURVEYING—
SOLUTIONS

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

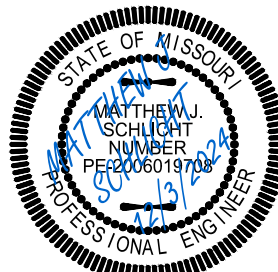
Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
LOTS 20-38 & TRACTS E-I
Lee's Summit, Jackson County, Missouri

Project: TOWNHOMES AT
CHAPEL RIDGE
PHASE 2, LSMO

Issue Date:
May 3, 2024

Street & Storm Cover Sheet



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

REVISIONS

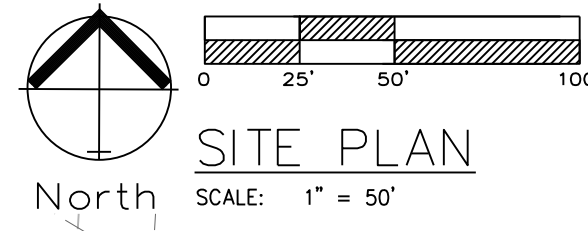
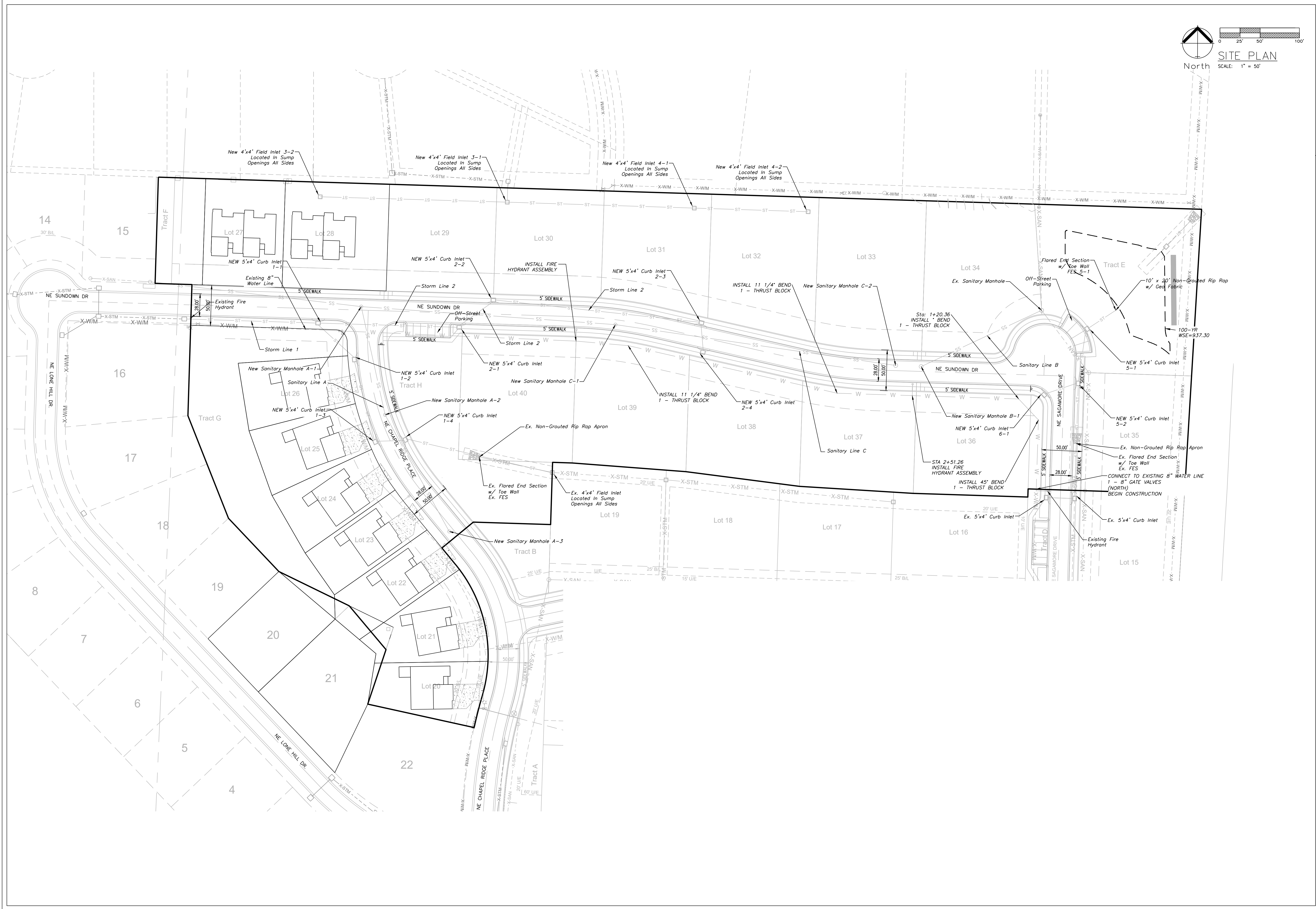
1 REV. 5/31/2024

2 REV. 6/20/2024

REV. 7/30/2024

REV. 12/3/2024

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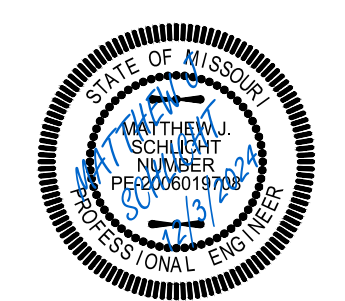


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THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
LOTS 20-38 & TRACTS E-I
Lee's Summit, Jackson County, Missouri

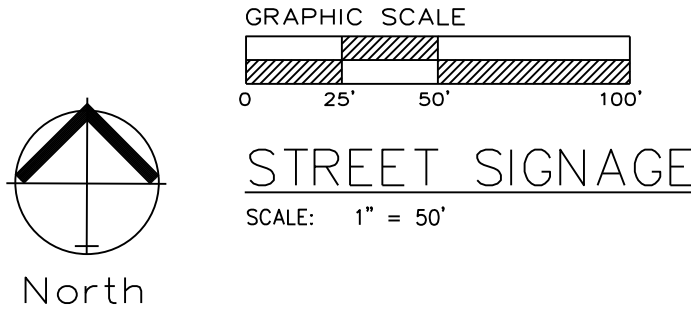
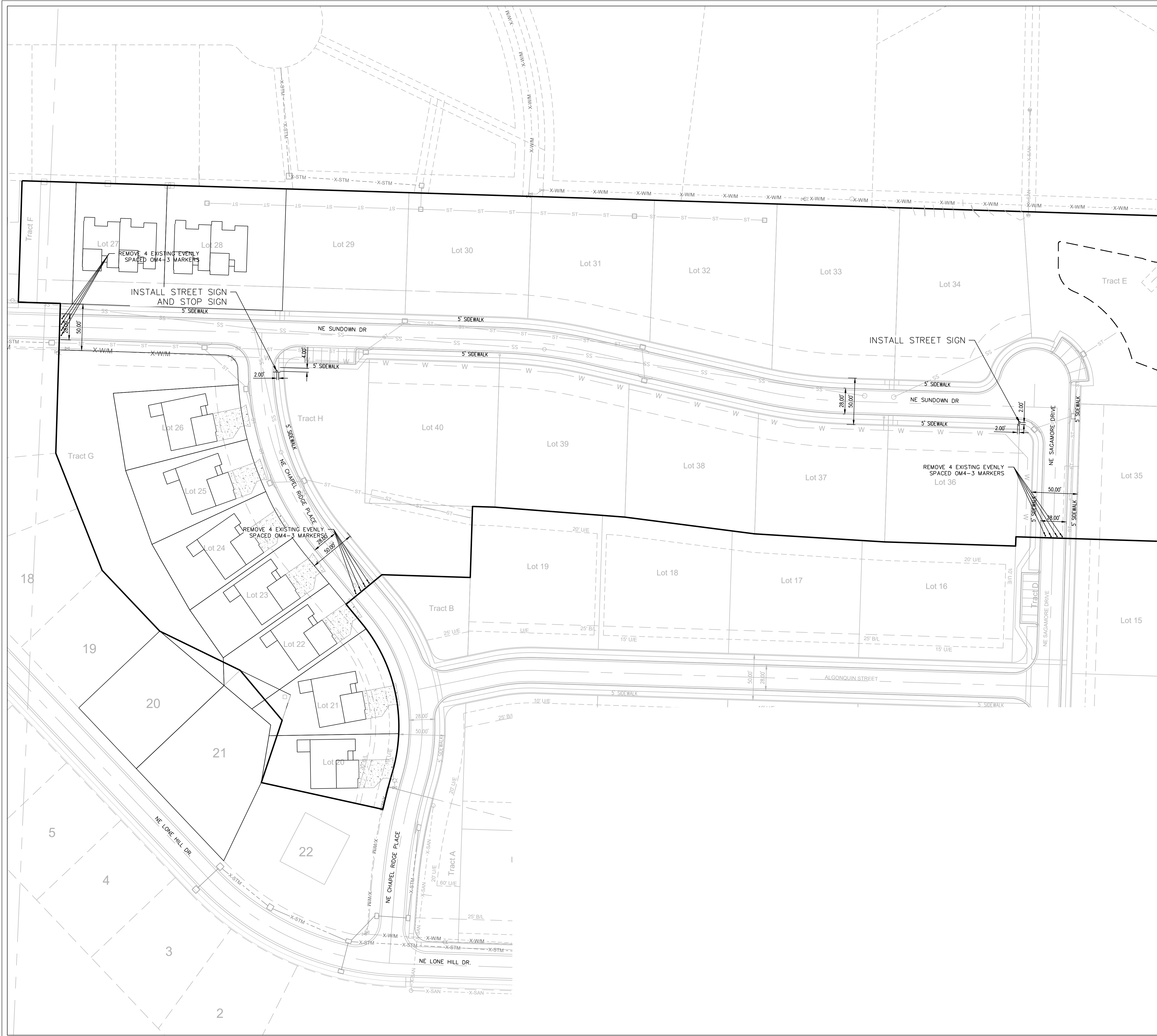
Project:
TOWNHOMES AT
PHASE 1, L&NO
Issue Date:
May 9, 2024

Site Plan
Construction Plans for:
THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
LOTS 20-38 & TRACTS E-I
Lee's Summit, Jackson County, Missouri



Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
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REVISIONS	
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REV. 7/30/2024	
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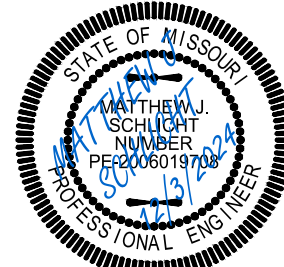


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LOTS 20-38 & TRACTS E-I
Lee's Summit, Jackson County, Missouri

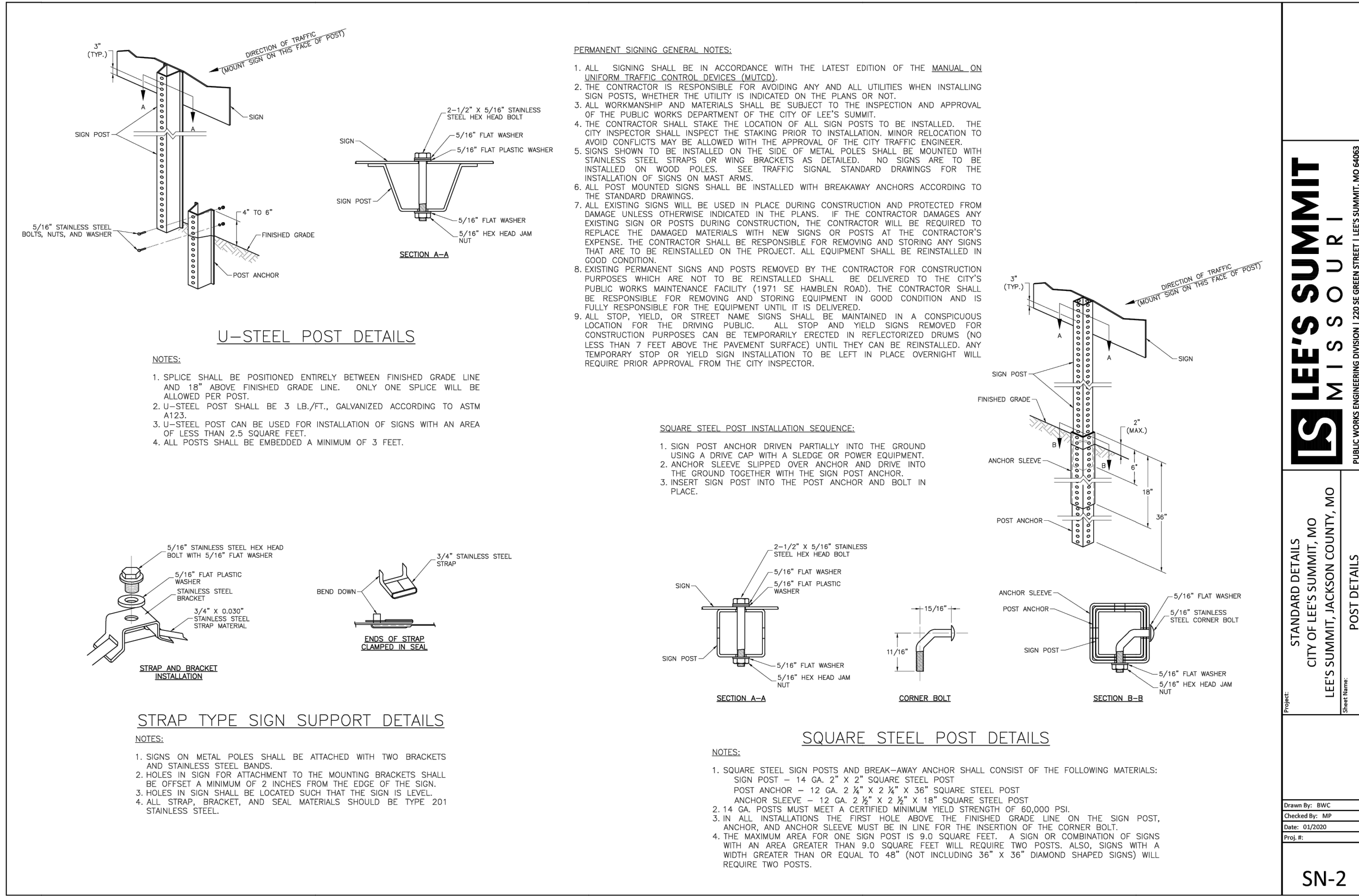
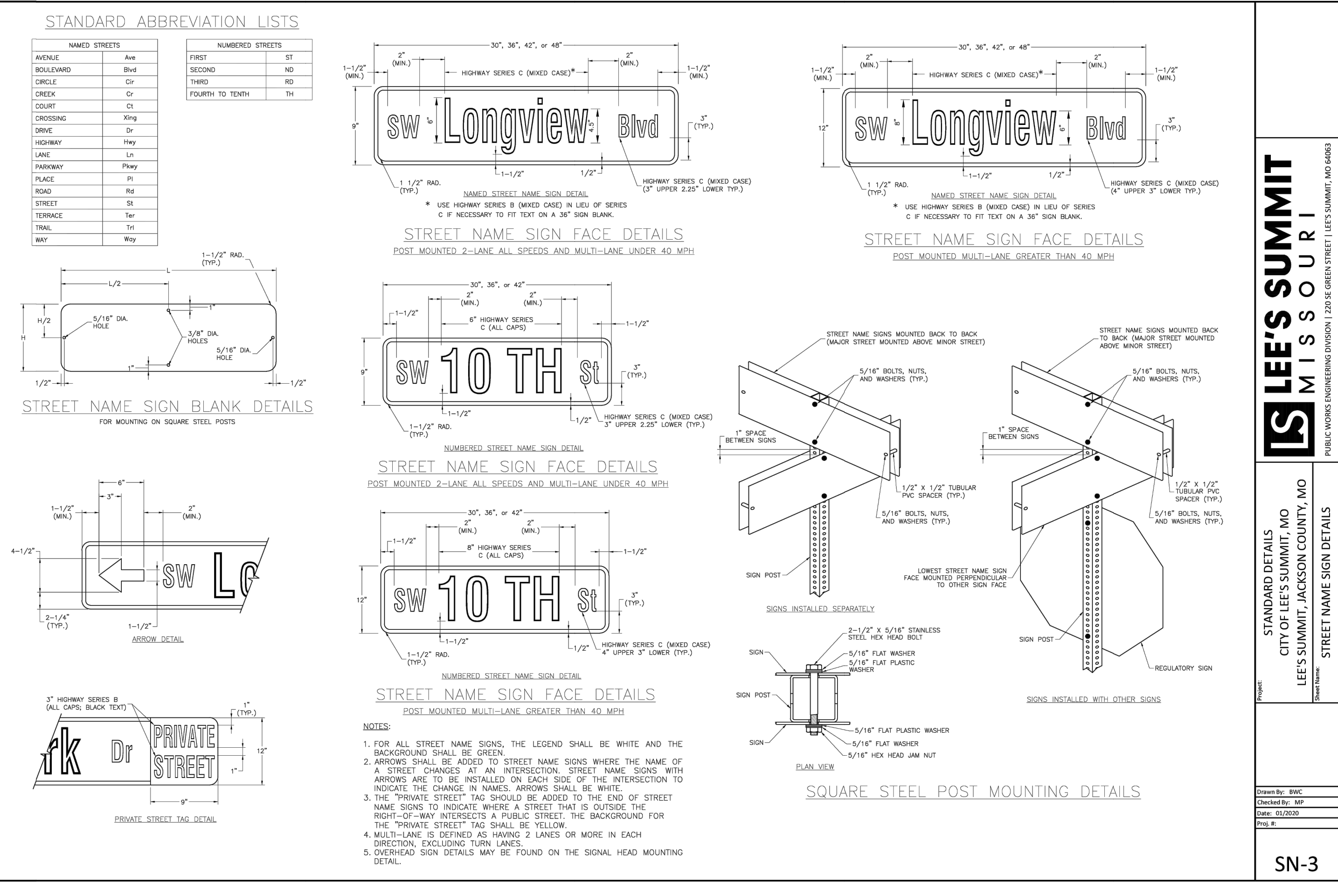
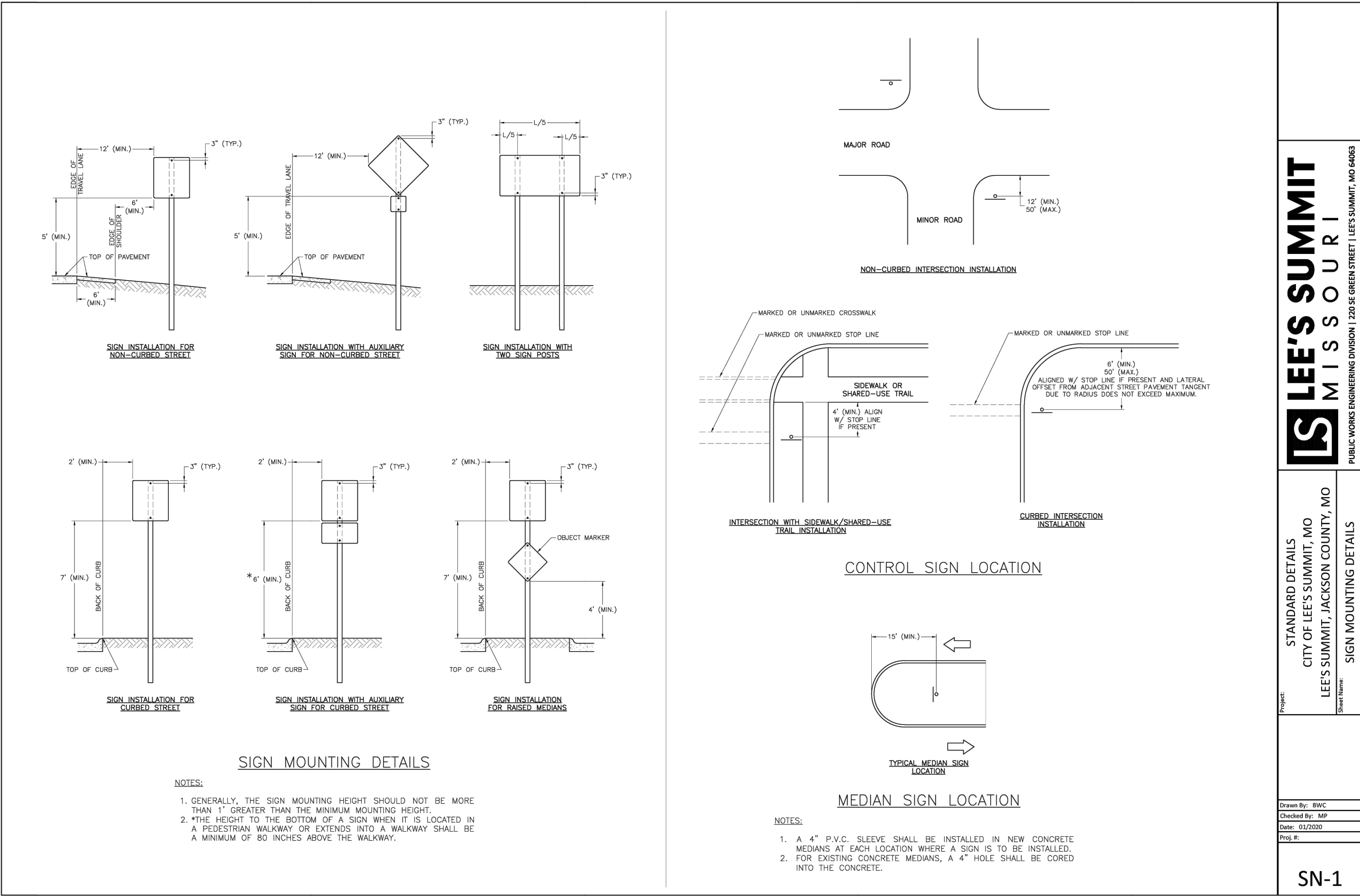
Project: TOWNHOMES AT CHAPEL RIDGE
PHASE 2, L&MO
Issue Date: May 3, 2024

Street Signage
Construction Plans for:
THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
LOTS 20-38 & TRACTS E-I
Lee's Summit, Jackson County, Missouri



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

REVISIONS	
△	REV. 5/31/2024
△	REV. 6/20/2024
	REV. 7/30/2024
	REV. 12/3/2024

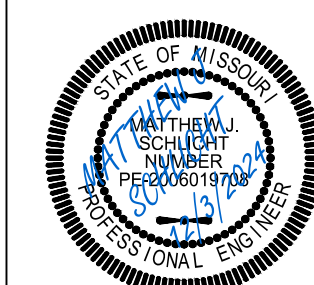


Professional Registration
 Missouri
 Engineering 2005002186-D
 Surveying 2005008319-D
 Kansas
 Engineering E-1695
 Surveying LS-218
 Oklahoma
 Engineering 6254
 Nebraska
 Engineering CA2821

THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
 LOTS 20-38 & TRACTS E-1
 Lee's Summit, Jackson County, Missouri

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

Street Signage Details
 Construction Plans for:
 THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
 LOTS 20-38 & TRACTS E-1
 Lee's Summit, Jackson County, Missouri



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

REVISIONS	
REV. 5/31/2024	
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ENGINEERING SOLUTIONS
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THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
LOTS 20-38 & TRACTS E-I
Lee's Summit, Jackson County, Missouri

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

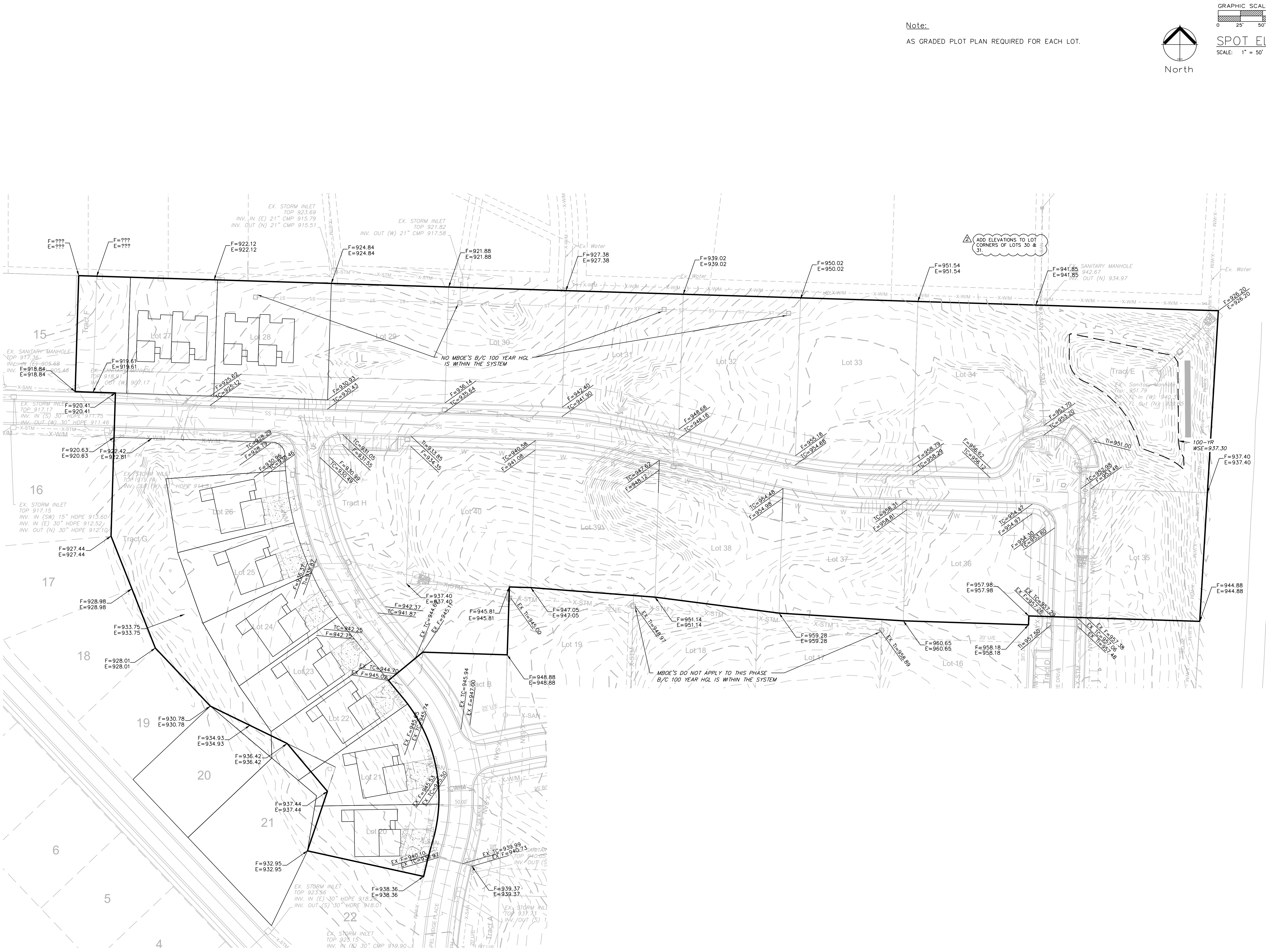
Master Drainage Plan 1 of 3:
Grading Plan
Construction Plans for:
THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
LOTS 20-38 & TRACTS E-I
Lee's Summit, Jackson County, Missouri

STATE OF MISSOURI
MATTHEW J. SCHLICHT
REGISTERED PROFESSIONAL ENGINEER
NO. 600619708
EXPIRATION DATE 12/31/2026
MATTHEW J. SCHLICHT
PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

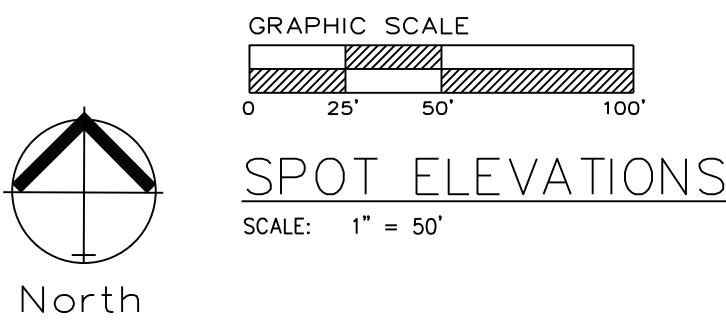
REVISIONS

REV.	5/31/2024
REV.	6/20/2024
REV.	7/30/2024
REV.	12/3/2024

C.200



Note:
AS GRADED PLOT PLAN REQUIRED FOR EACH LOT.

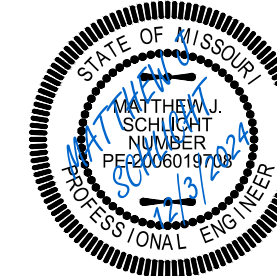


Master Drainage Plan 2 of 3:
Spot Elevations
Construction Plans for:
THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
LOTS 20-38 & TRACTS E-I
Lee's Summit, Jackson County, Missouri

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

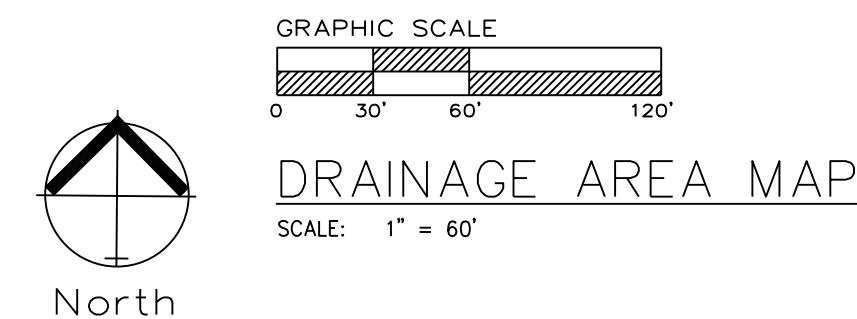
THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
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Lee's Summit, Jackson County, Missouri

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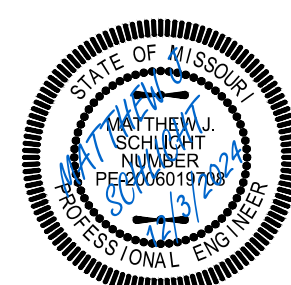


Matthew J. Schlicht
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REVISIONS	
REV. 5/31/2024	ADD ELEVATIONS TO LOT CORNERS OF LOTS 30 & 31.
REV. 6/20/2024	
REV. 7/30/2024	
REV. 12/3/2024	



APWA STORM DRAINAGE "TC" COMPUTATIONS FOR: TOWNHOMES OF CHAPEL RIDGE 2ND PLAT																																																																		
		yellow areas are self computing overwrite if necessary					Surface types: SURFACE CODES "C" Values		Asph/Conc		Bus/Com		Dirt		Grass/Park		Lake		MultFam		SnglFam		Undev		Other		TC COMPUTATION																																							
		TOTAL WATERSHED																																																																



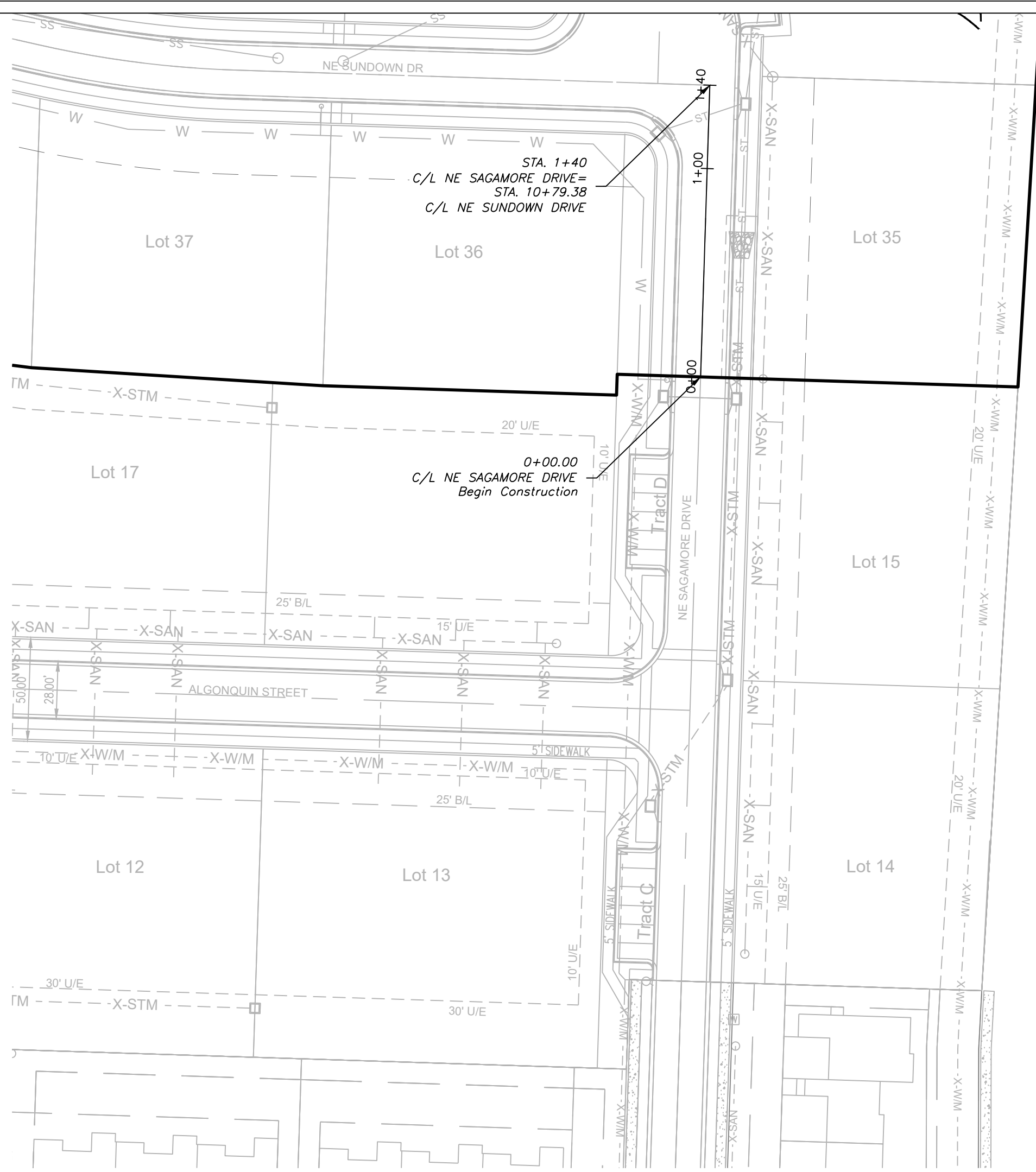
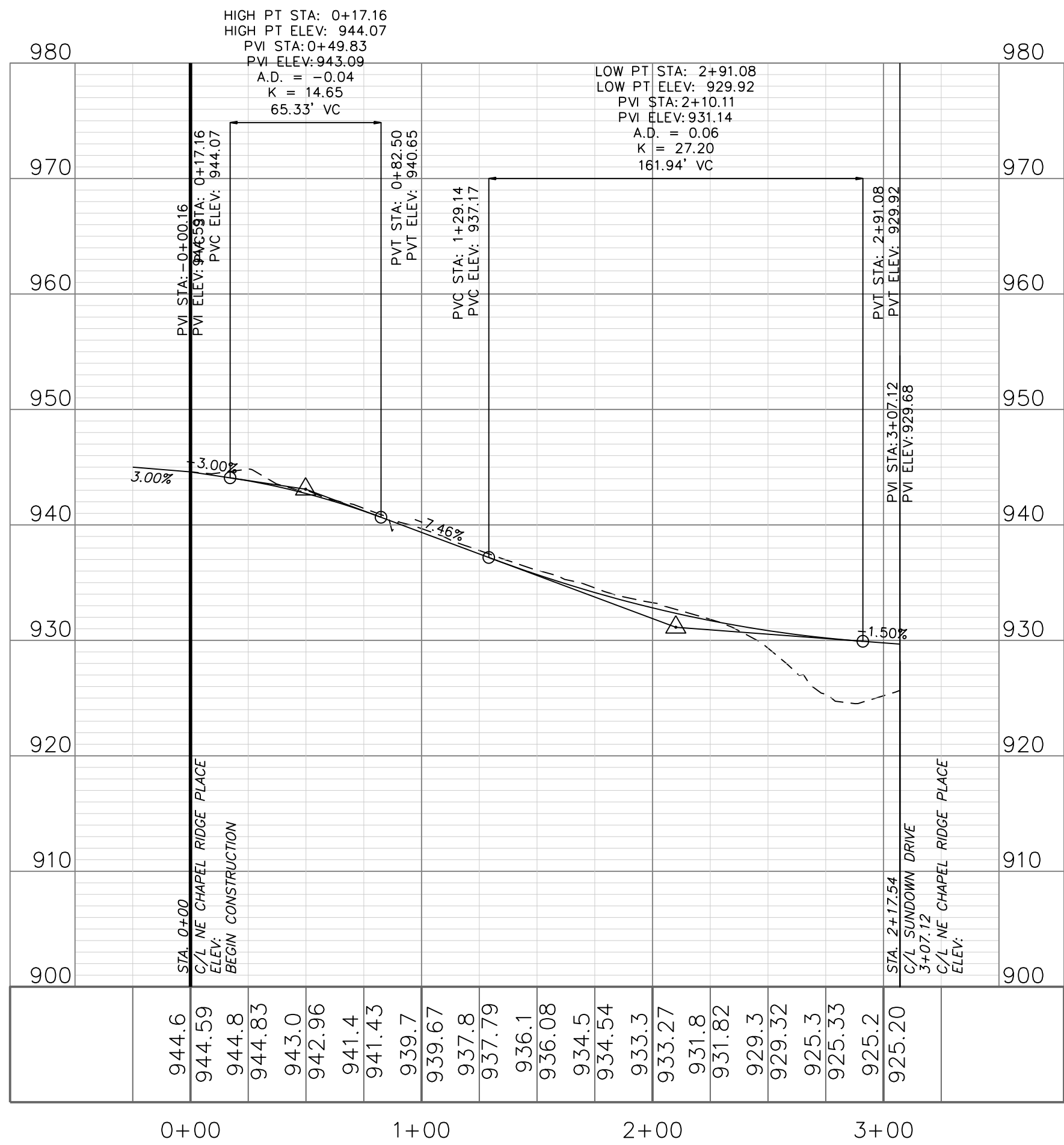
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REVISIONS

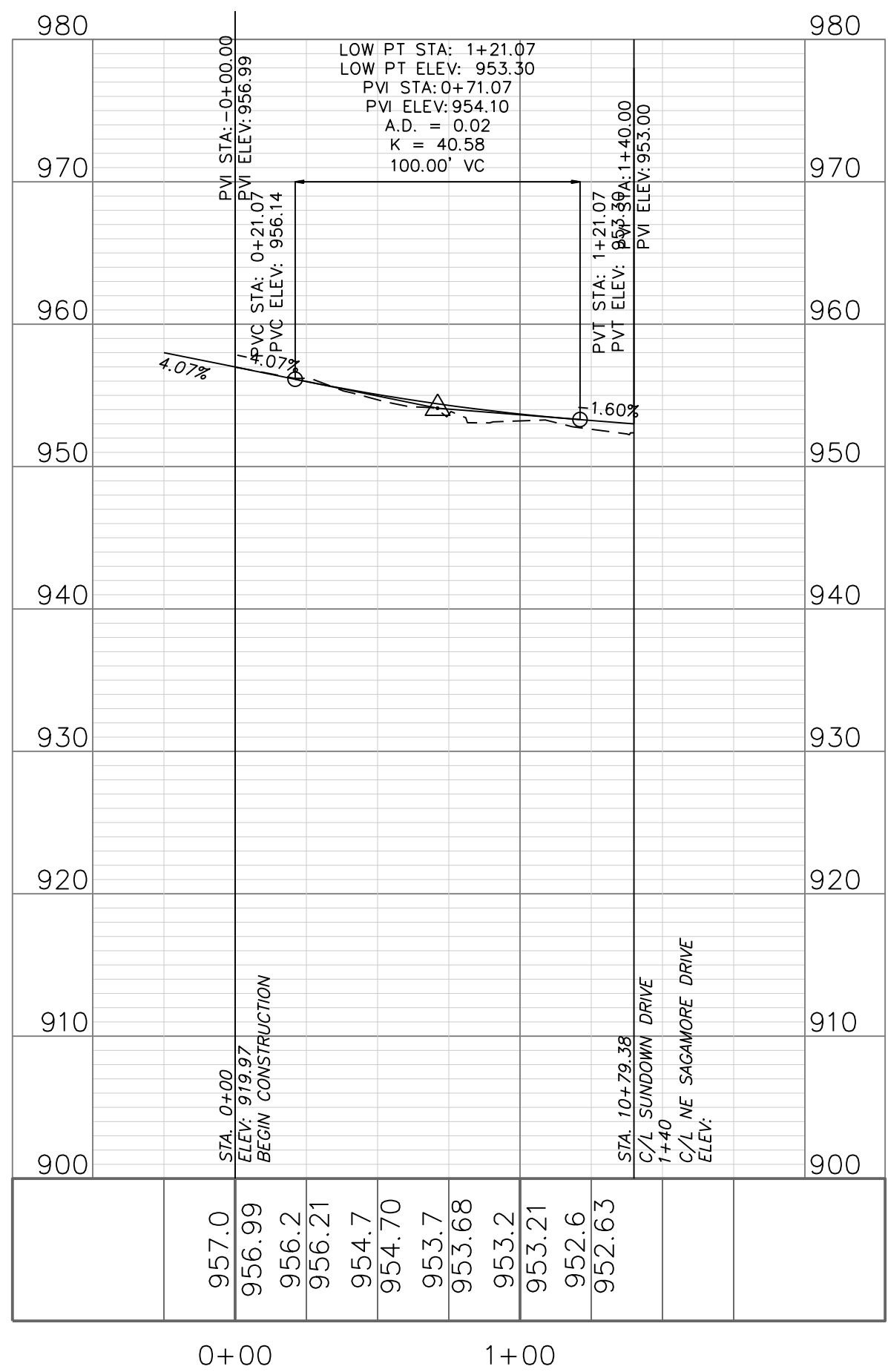
- 1 REV. 5/31/2022
2 REV. 6/20/2022
REV. 7/30/2022
REV. 12/3/2022



NE CHAPEL RIDGE PLACE



NE SAGAMORE DRIVE



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THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
LOTS 20-38 & TRACTS E-I
Lee's Summit, Jackson County, Missouri

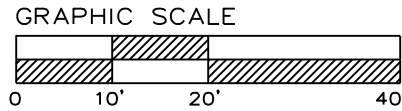
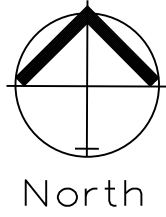
Project: TOWNHOMES AT CHAPEL RIDGE PHASE 2, L&MO
Issue Date: May 3, 2024

Street Plan and Profile
Construction Plans for:
THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
LOTS 20-38 & TRACTS E-I
Lee's Summit, Jackson County, Missouri

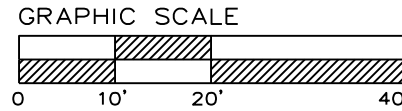
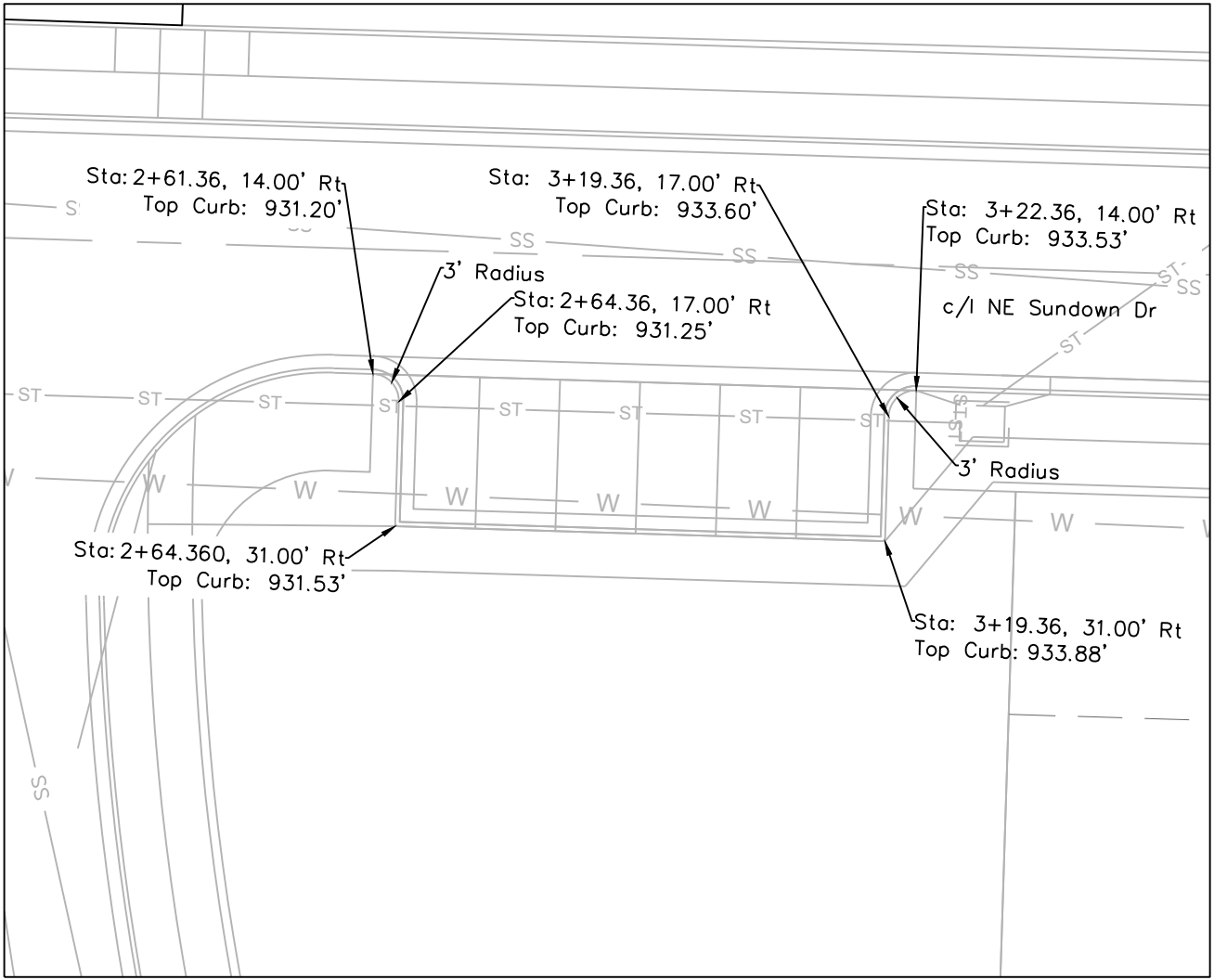
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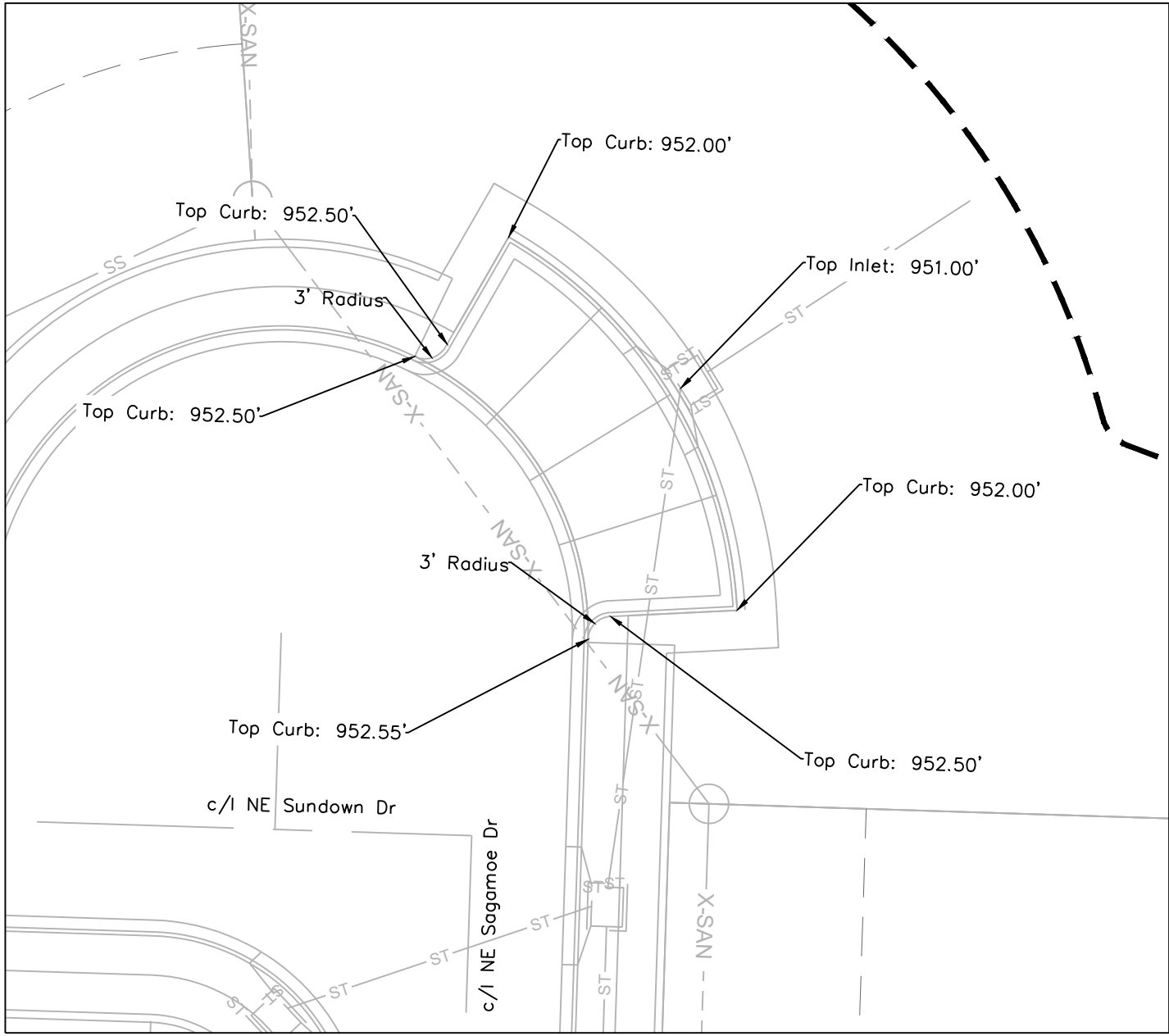
C.203



SIDEWALK AND INTERSECTION PLAN
SCALE: 1" = 20'



SIDEWALK AND INTERSECTION PLAN
SCALE: 1" = 20'



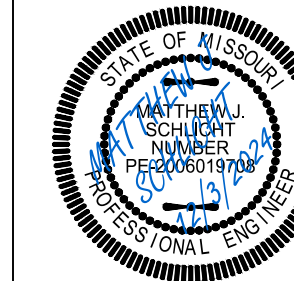
Sidewalk and
Intersection Plan

Construction Plans for:
THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
LOTS 20-38 & TRACTS E-1
Lee's Summit, Jackson County, Missouri

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

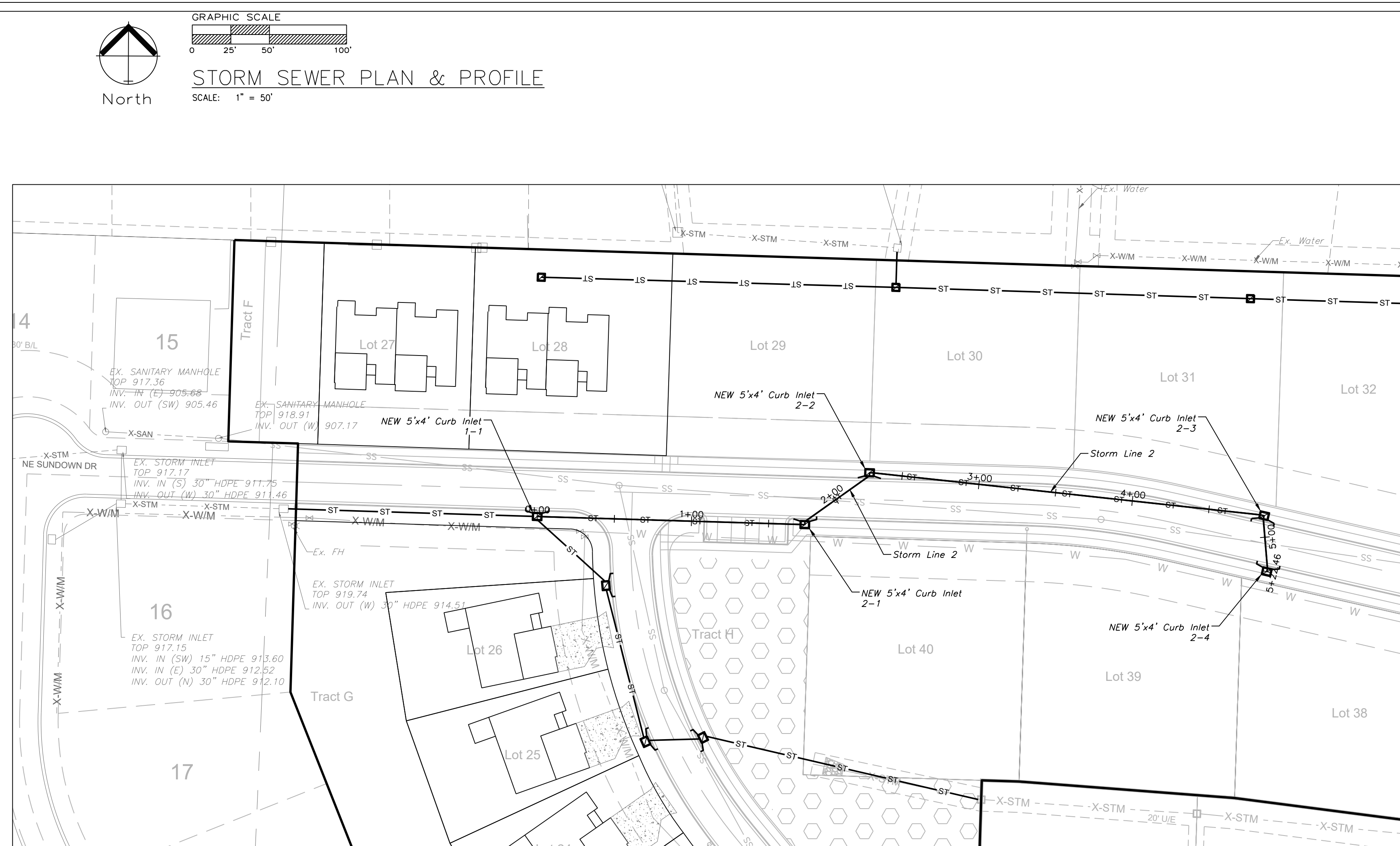
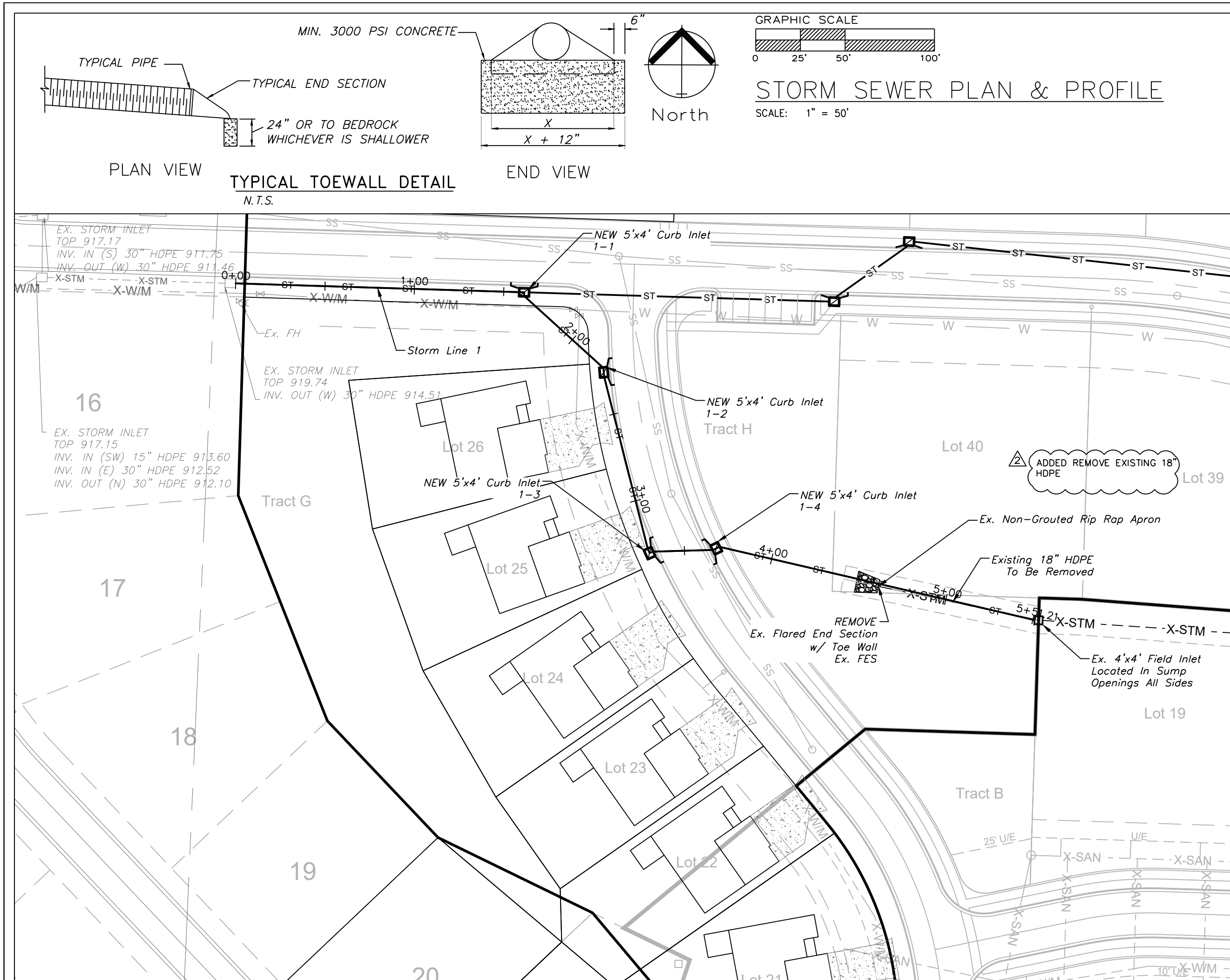
THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
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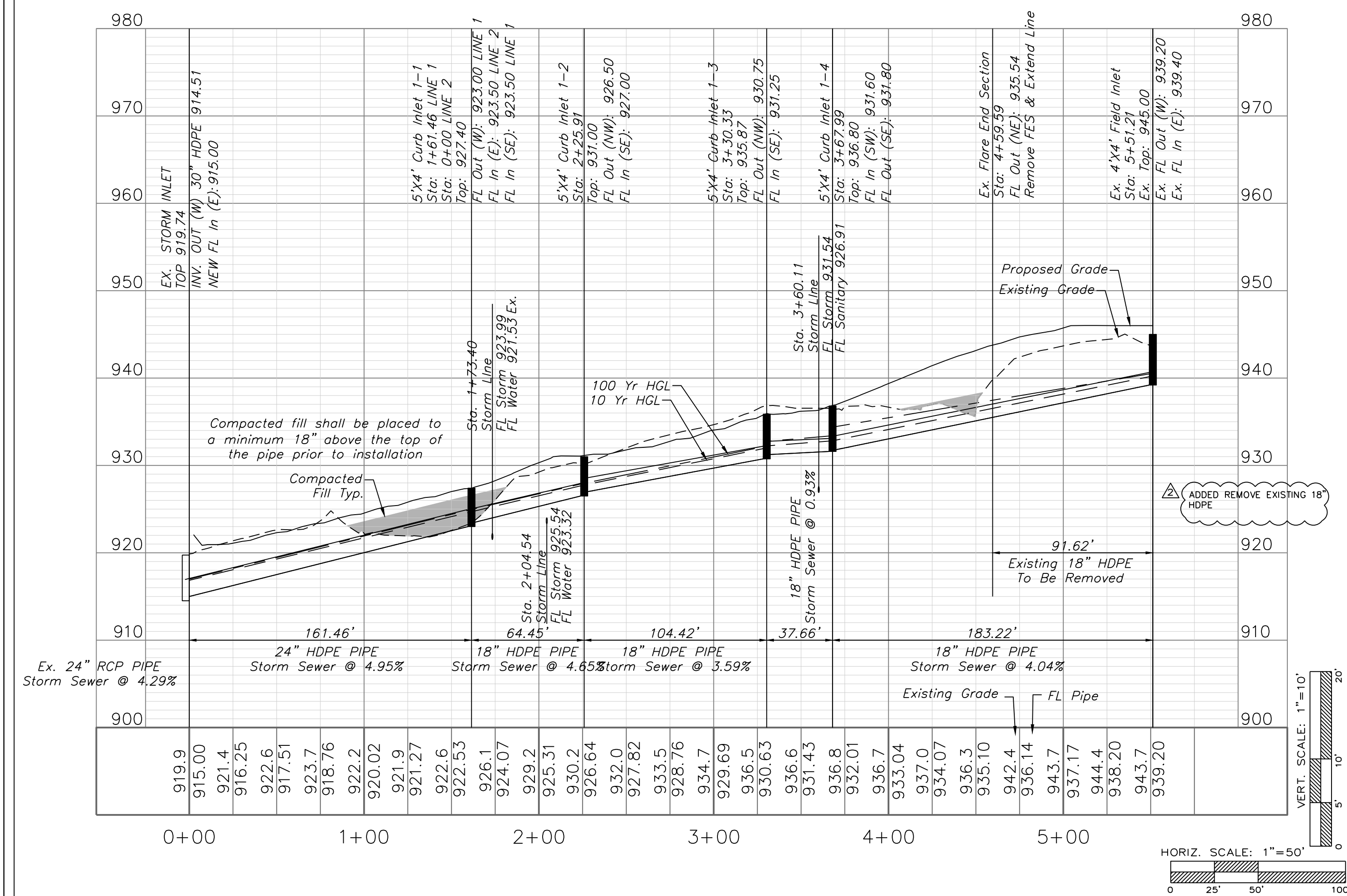


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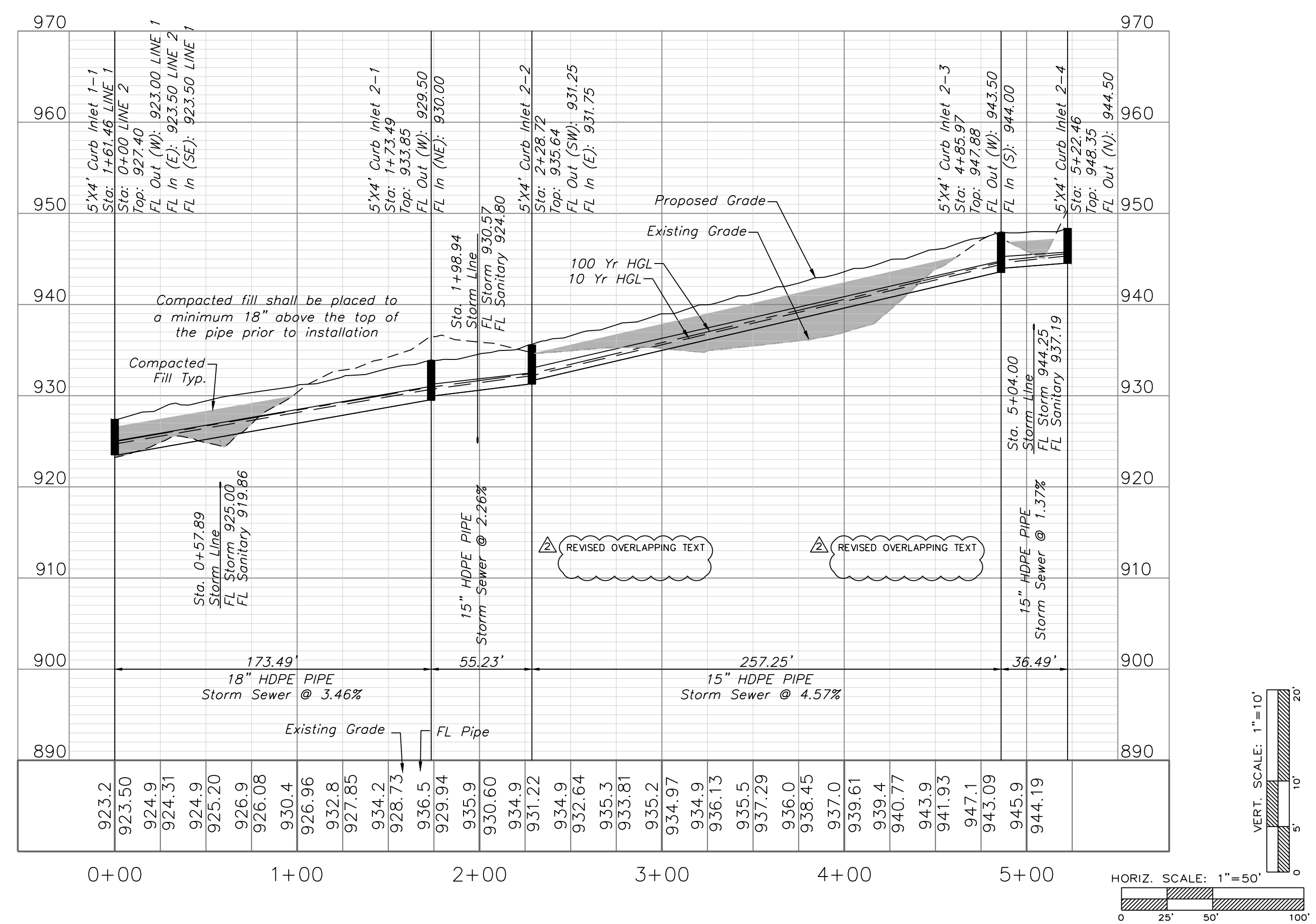
REVISIONS	
△	REV. 5/31/2024
△	REV. 6/20/2024
	REV. 7/30/2024
	REV. 12/3/2024

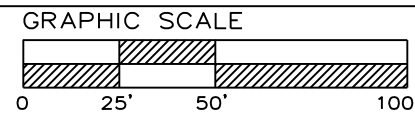
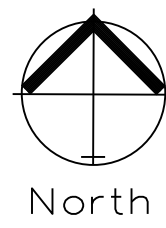


STORM LINE 1



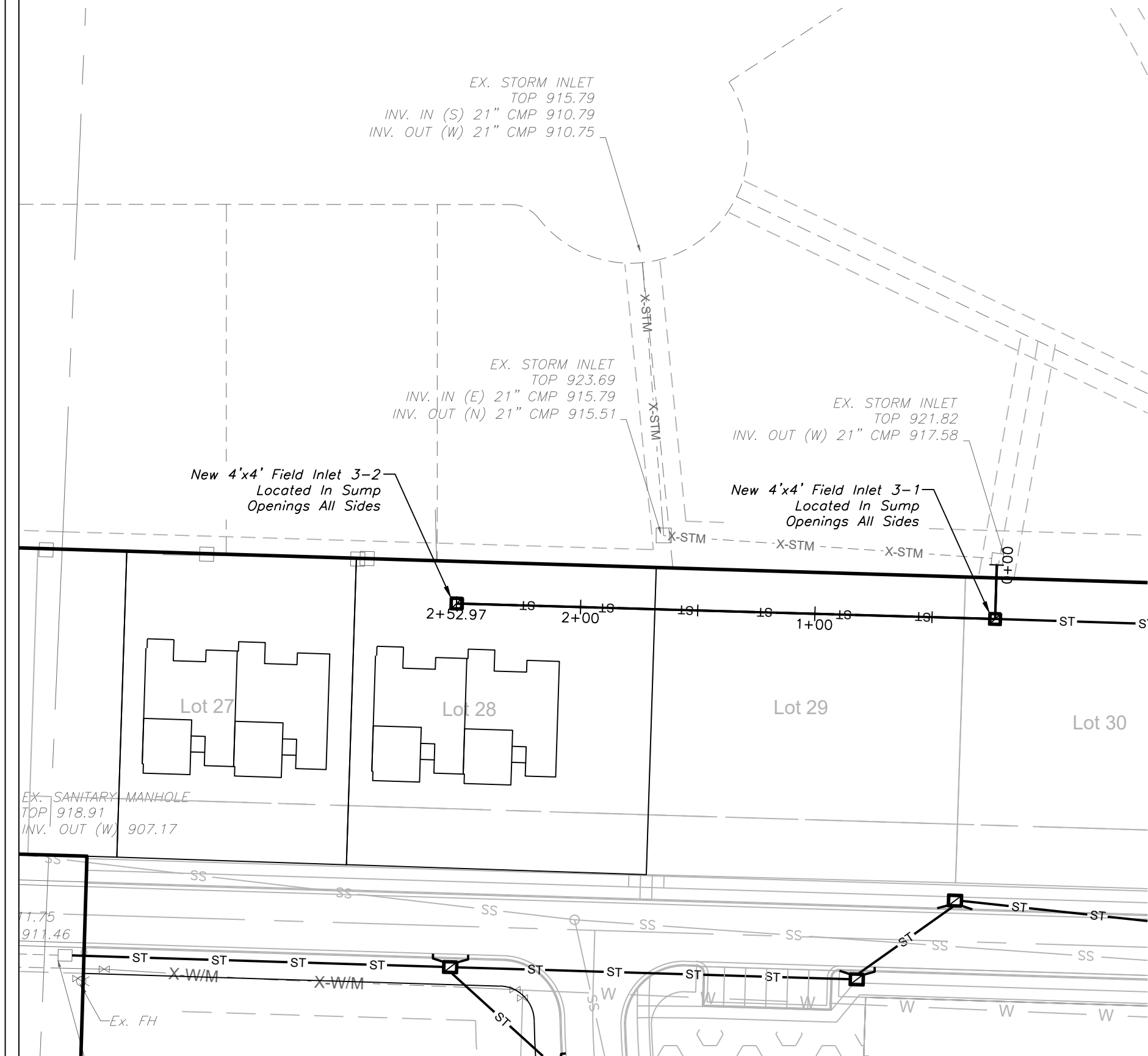
STORM LINE 2



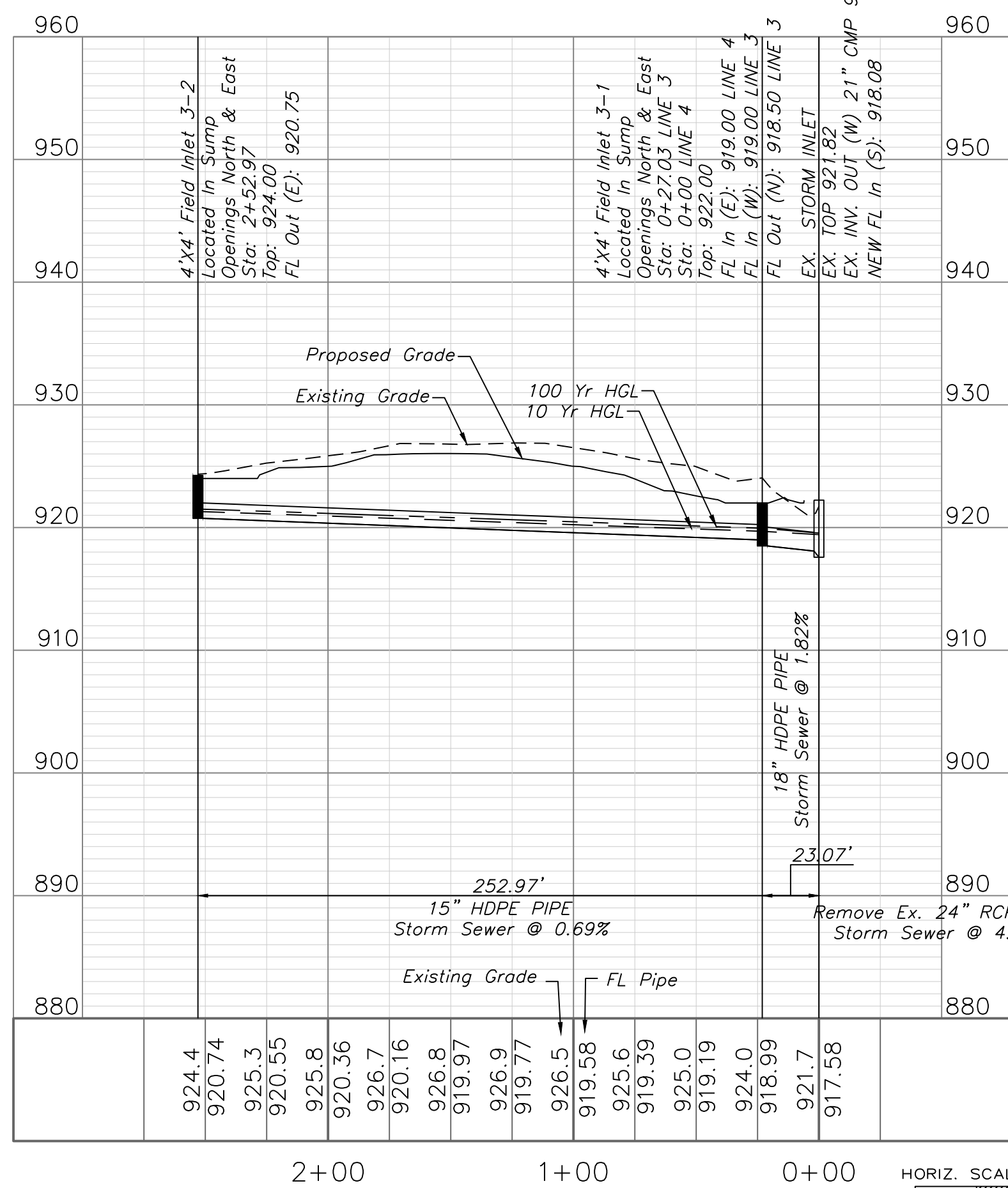


STORM SEWER PLAN & PROFILE

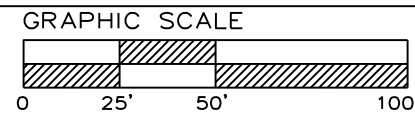
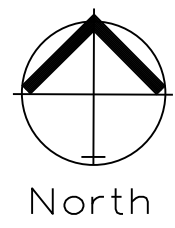
SCALE: 1" = 50'



STORM LINE 3

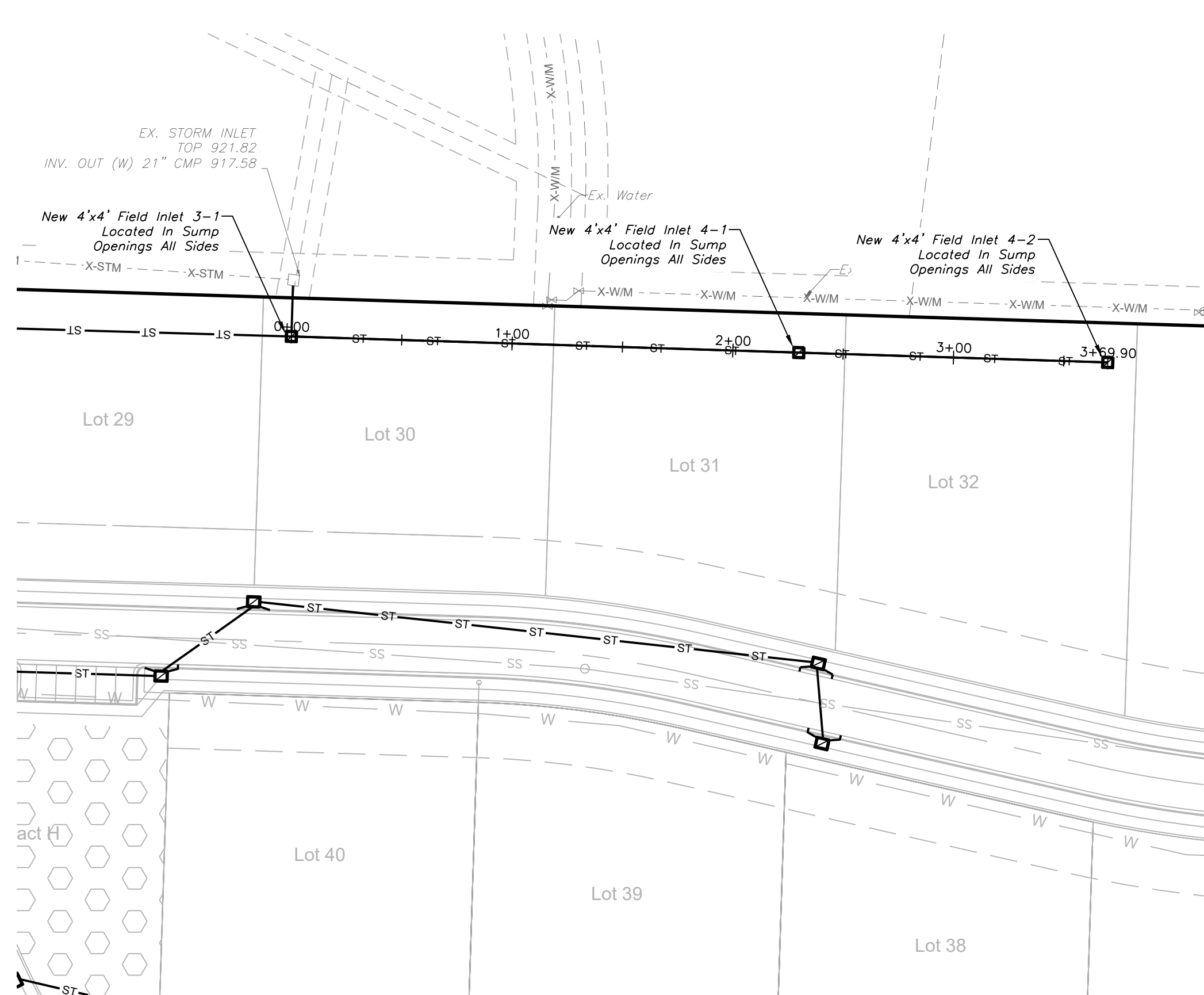


REVISD OVERLAPPING TEXT

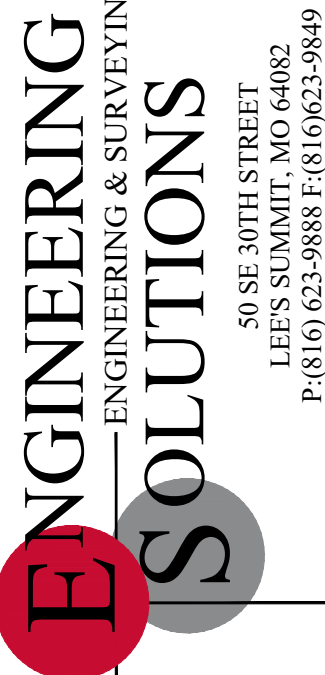
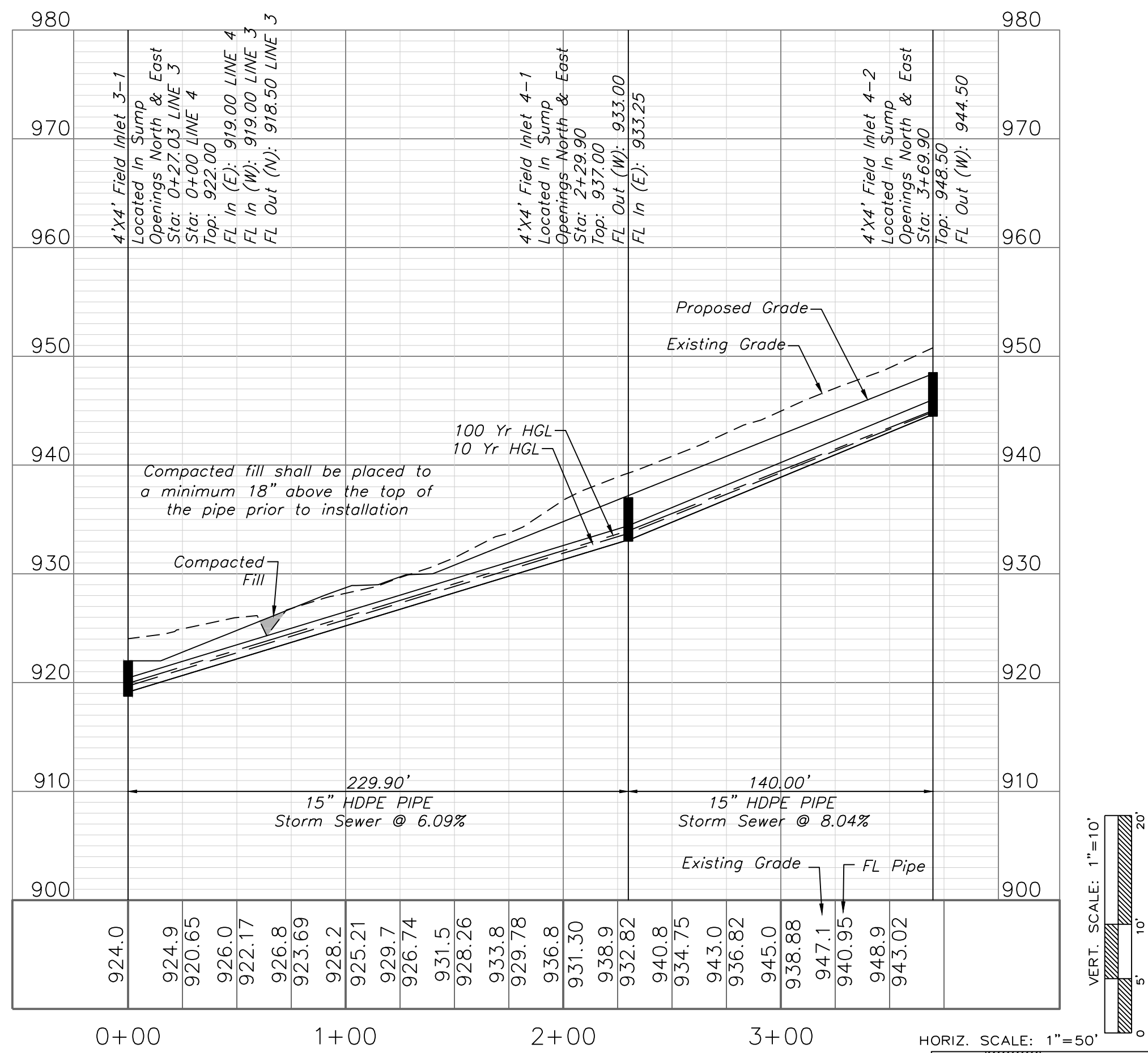


STORM SEWER PLAN & PROFILE

SCALE: 1" = 50'



STORM LINE 4

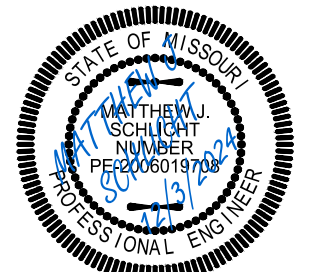


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Engineering 6254
Nebraska
Engineering CA2821

THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
LOTS 20-38 & TRACTS E-1
Lee's Summit, Jackson County, Missouri

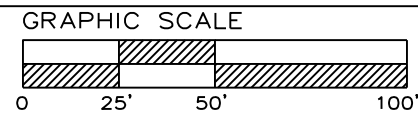
Project: CHAPEL RIDGE-3RD PLAT
PHASE 2, LSWO
Issue Date: May 3, 2024

Storm Sewer Plan and Profile
Construction Plans for:
THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
LOTS 20-38 & TRACTS E-1
Lee's Summit, Jackson County, Missouri



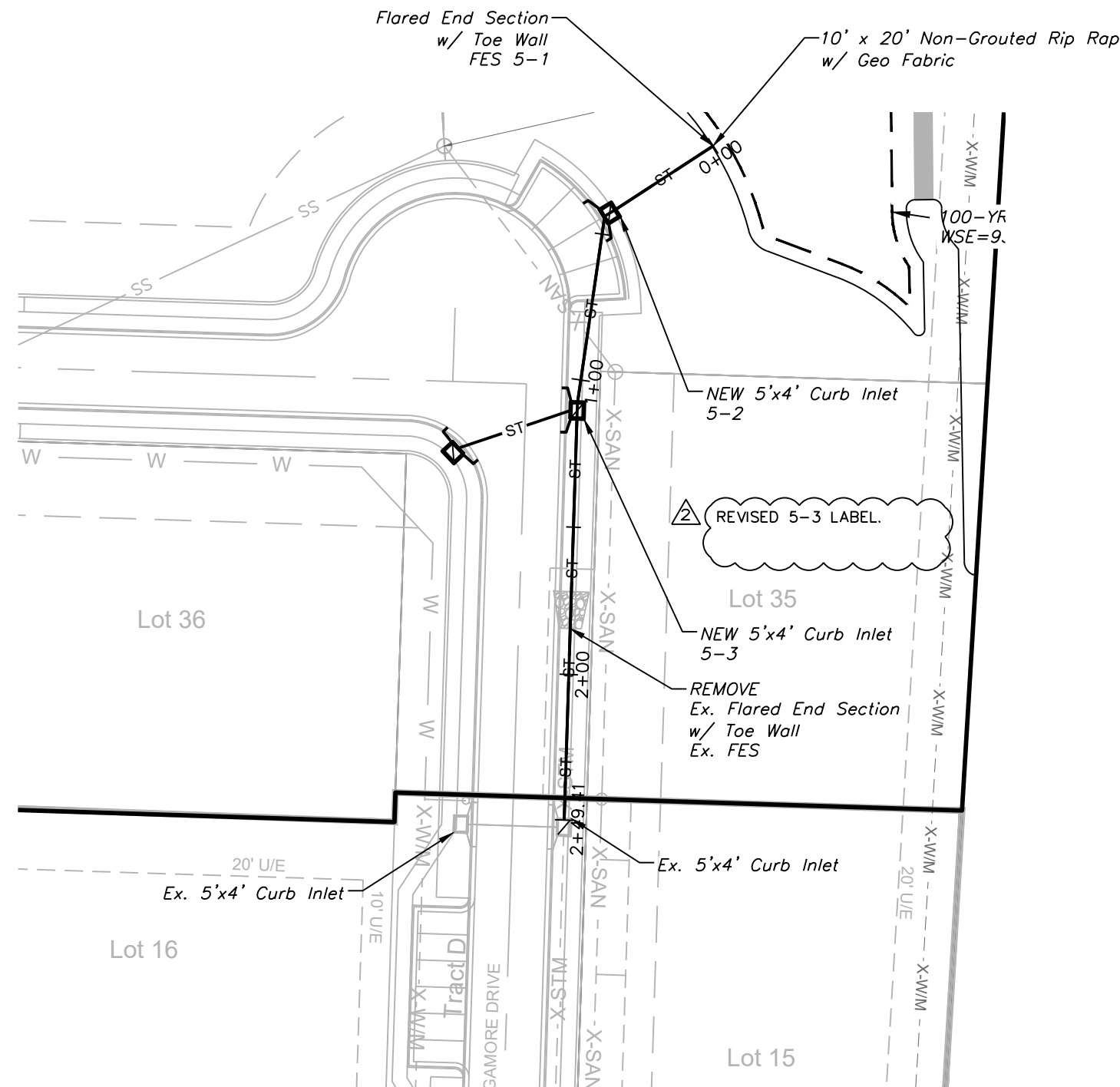
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-114335

REVISIONS
REV. 5/31/2024
REV. 6/20/2024
REV. 7/30/2024
REV. 12/3/2024

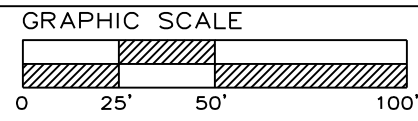
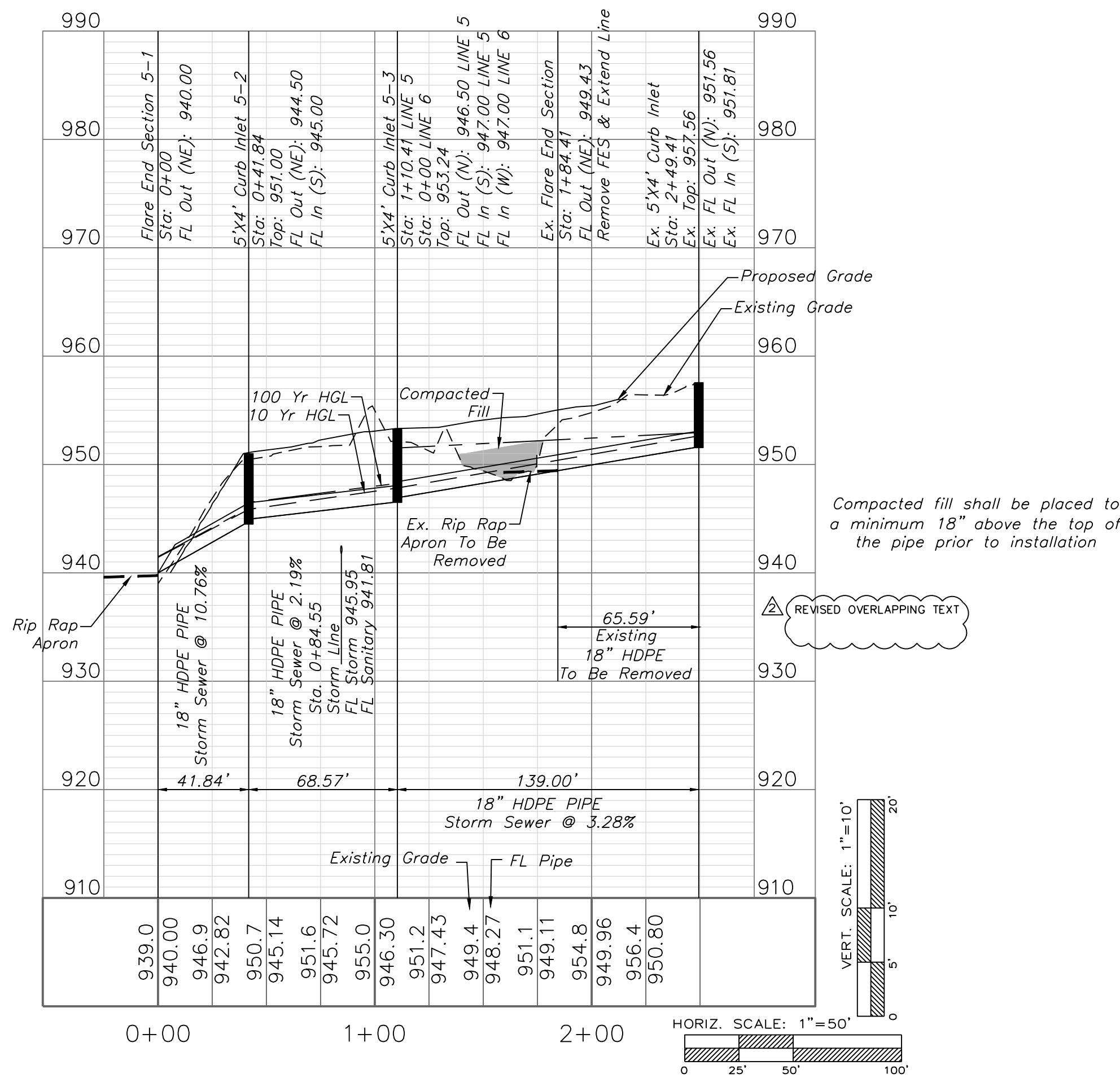


STORM SEWER PLAN & PROFILE

SCALE: 1" = 50'

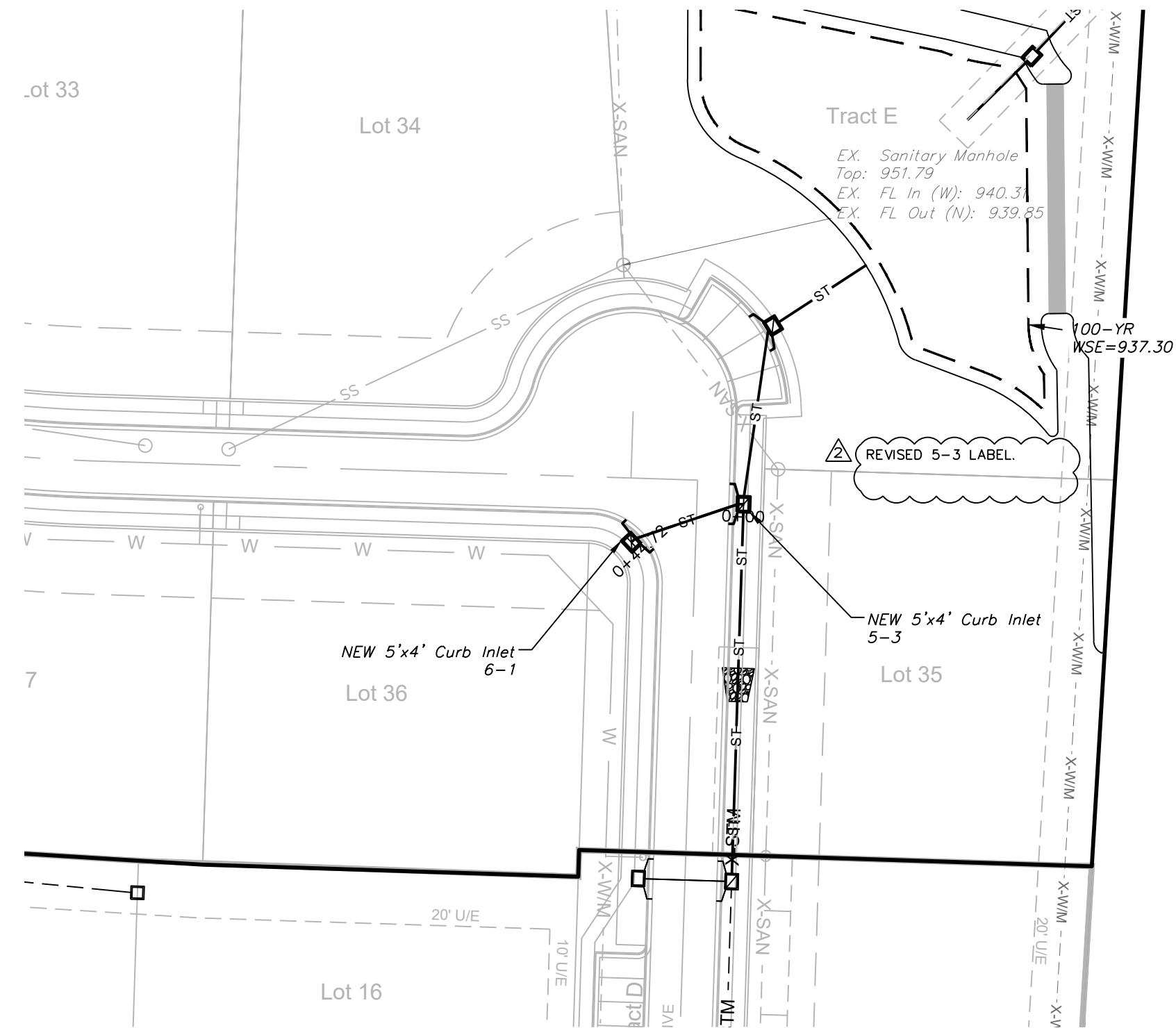


STORM LINE 5

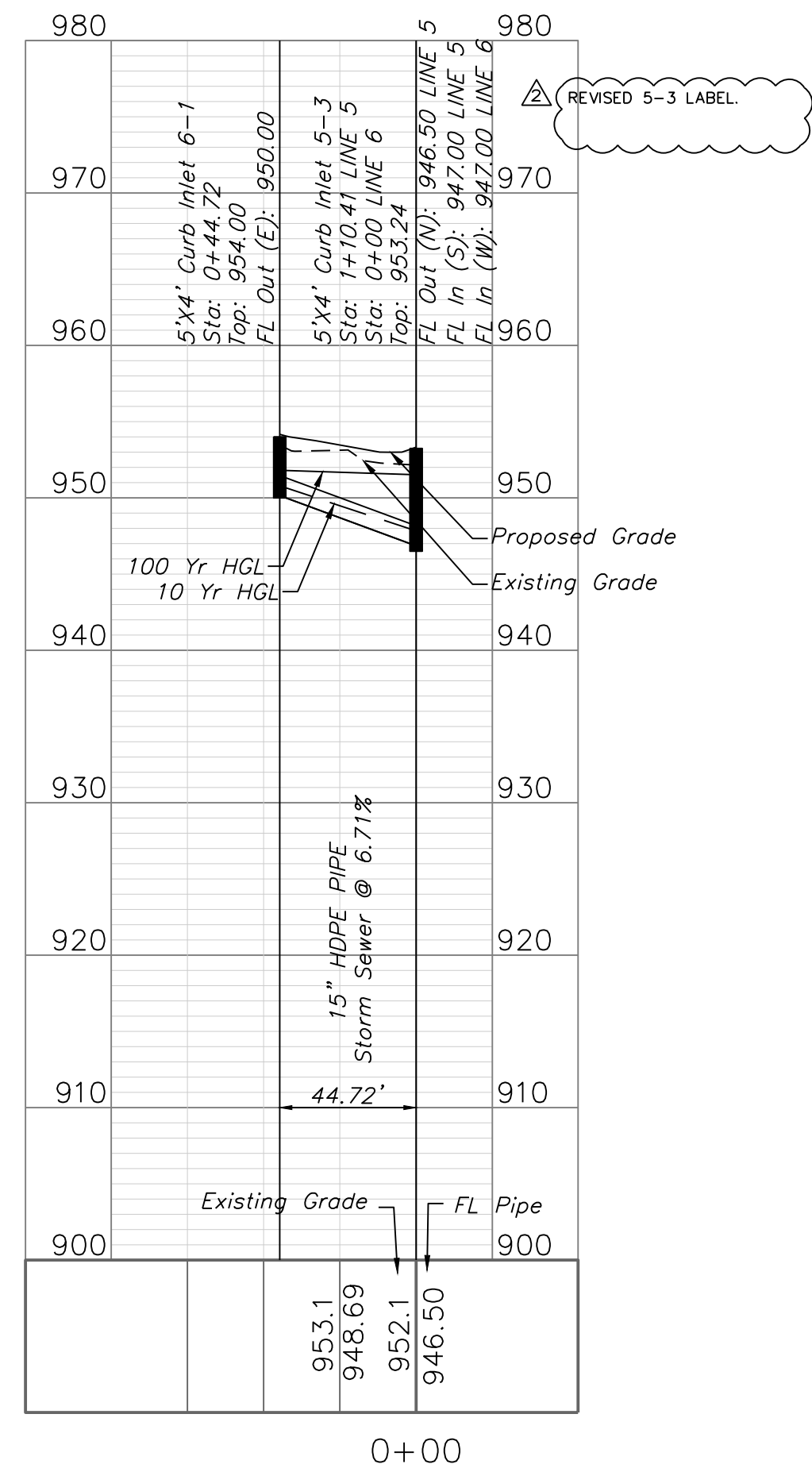


STORM SEWER PLAN & PROFILE

SCALE: 1" = 50'



STORM LINE 6

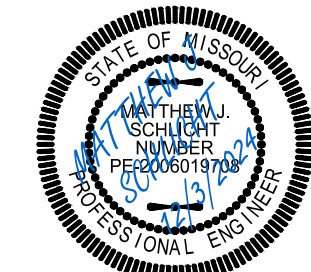


Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering E254
Nebraska
Engineering CA2821

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

REVISIONS
REV. 5/31/2024
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REV. 7/30/2024
REV. 12/3/2024

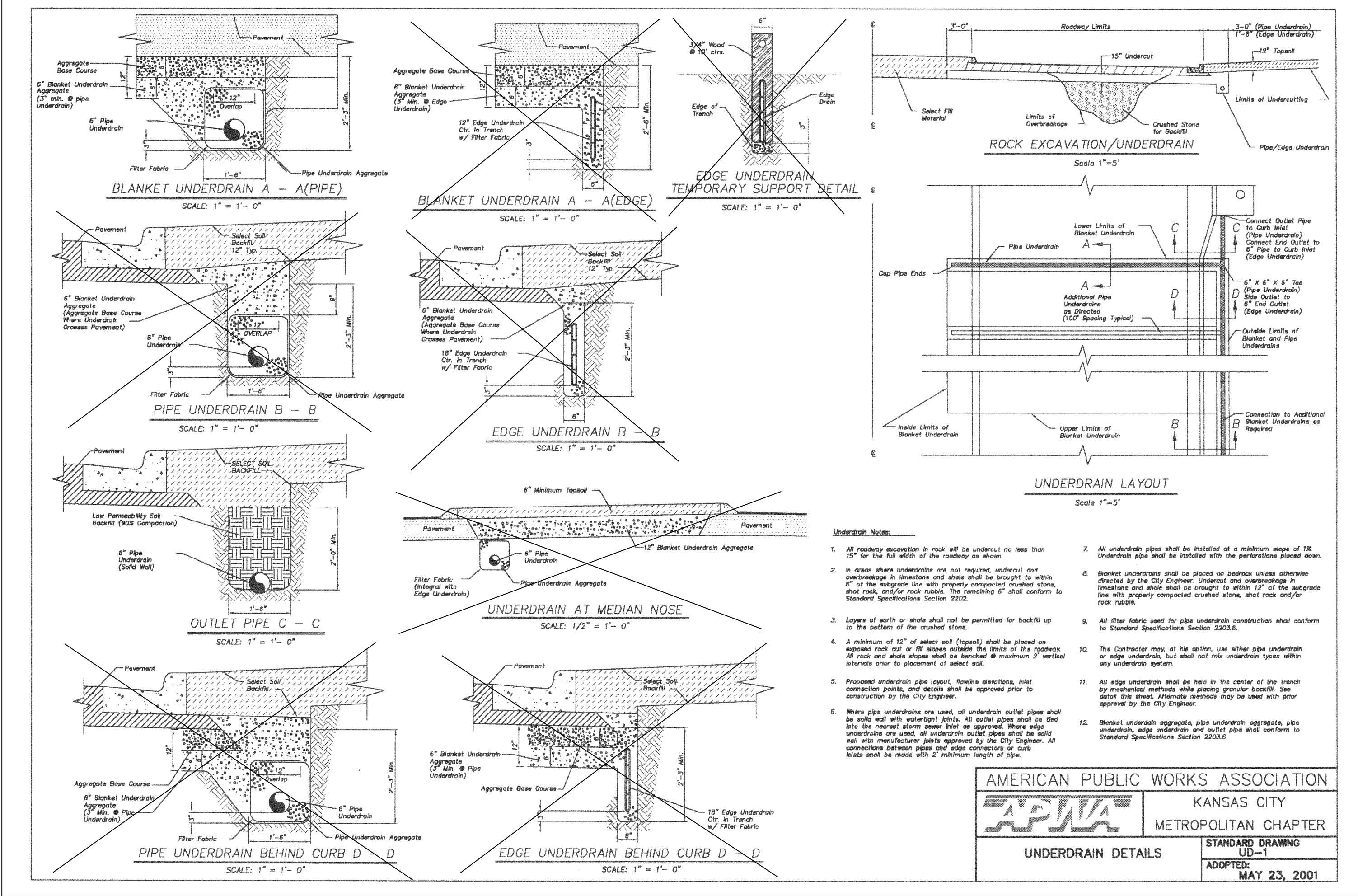
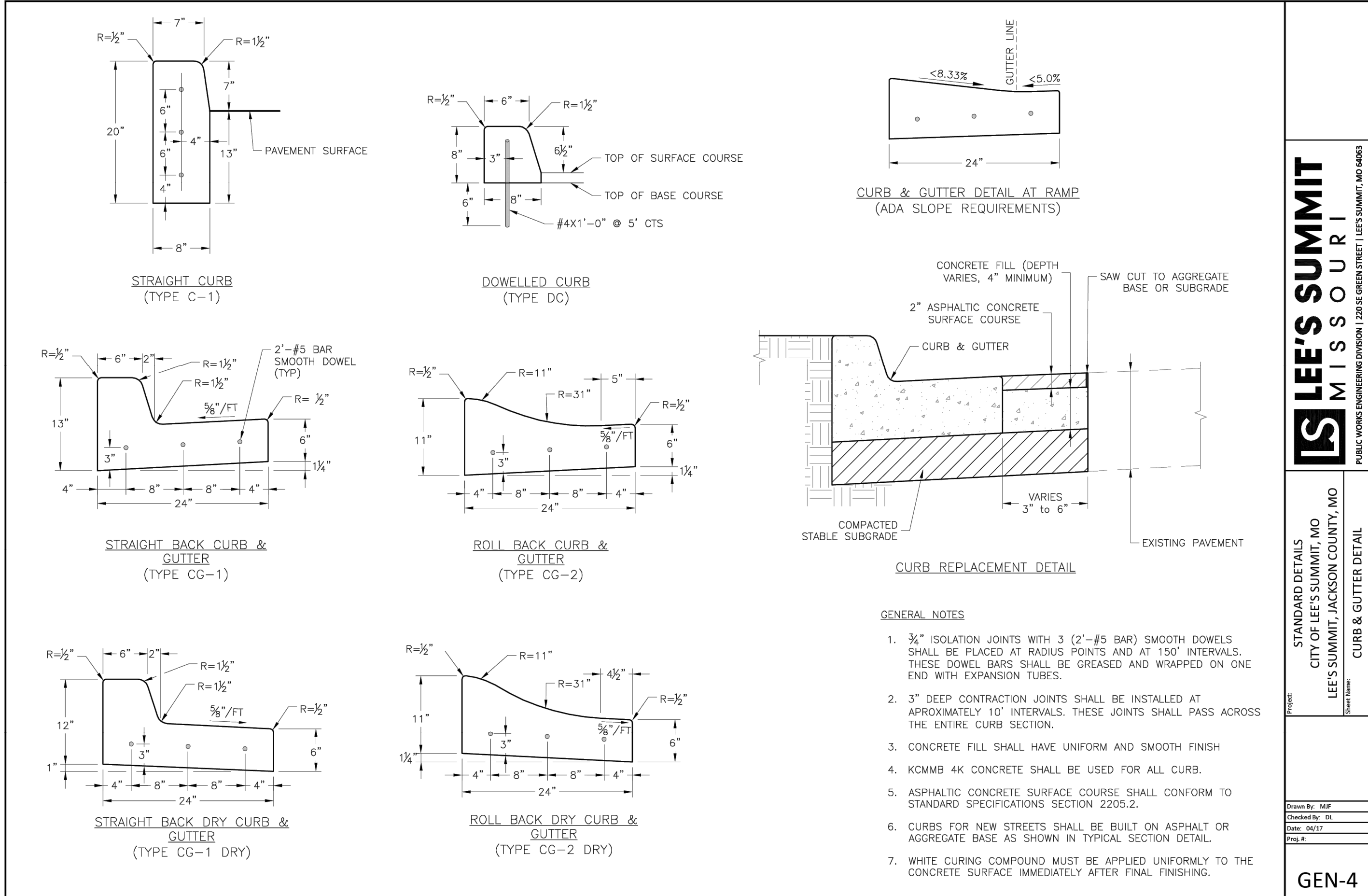
C. 303

10-YR STRUCTURE																							
D.S. Str.	Str. No.	Area (ac)	InletTime (min)	Int. (in/hr)	RunoffCoeff. (C)	Q=CIA (cfs)	Q Carry-over (cfs)	QCaptured (cfs)	QBypassed (cfs)	JunctType	CurbHeight (in)	CurbLength (ft)	GutterSlope (ft/ft)	GutterWidth (ft)	CrossSlope, Sw (ft/ft)	CrossSlope, Sx (ft/ft)	LocalDepr. (in)	InletDepth (ft)	BypassDepth (ft)	BypassSpread (ft)	GutterDepth (ft)	GutterSpread (ft)	Bypass Str.
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	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	8.8	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 (ac)	InletTime (min)	Int. (in/hr)	RunoffCoeff. (C)	Q=CIA (cfs)	Q Carry-over (cfs)	QCaptured (cfs)	QBypassed (cfs)	JunctType	CurbHeight (in)	CurbLength (ft)	GutterSlope (ft/ft)	GutterWidth (ft)	CrossSlope, Sw (ft/ft)	CrossSlope, Sx (ft/ft)	LocalDepr. (in)	InletDepth (ft)	BypassDepth (ft)	BypassSpread (ft)	GutterDepth (ft)	GutterSpread (ft)	Bypass Str.
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	RnfalIn	TotalRunoff	TotalFlow	CapacFull	Veloc	PipeSize	PipeSlope	Invr ElevDn	Invr 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

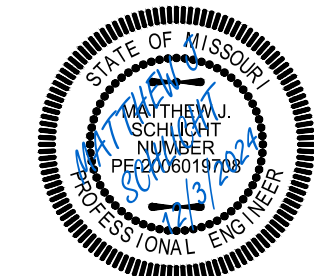


GENERAL NOTE:
1 - ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.

Construction Details

THE TOWNHOMES OF CHAPEL RIDGE-3RD PLAT
LOTS 20-38 & TRACTS E-1
Lee's Summit, Jackson County, Missouri

Project: THE TOWNHOMES AT CHAPEL RIDGE
Phase: 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

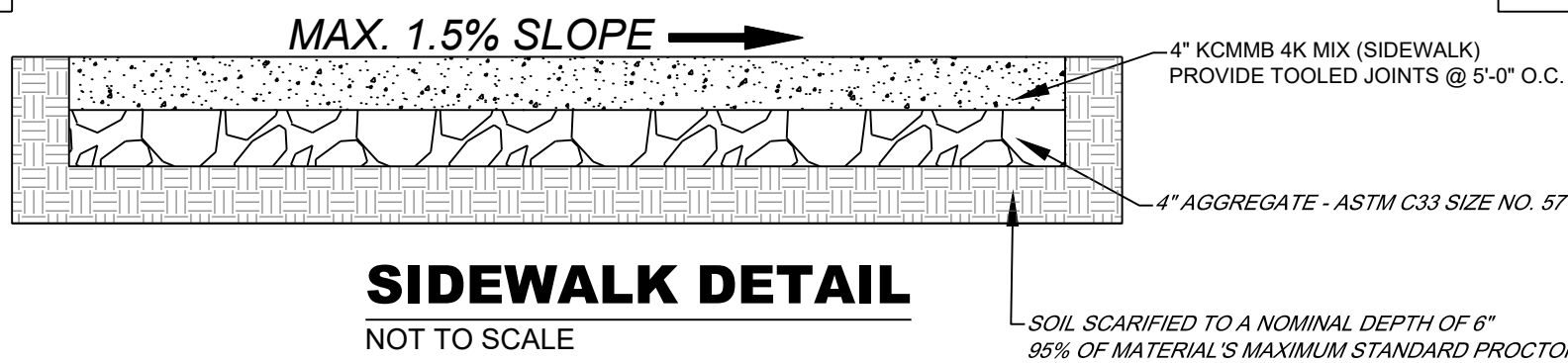
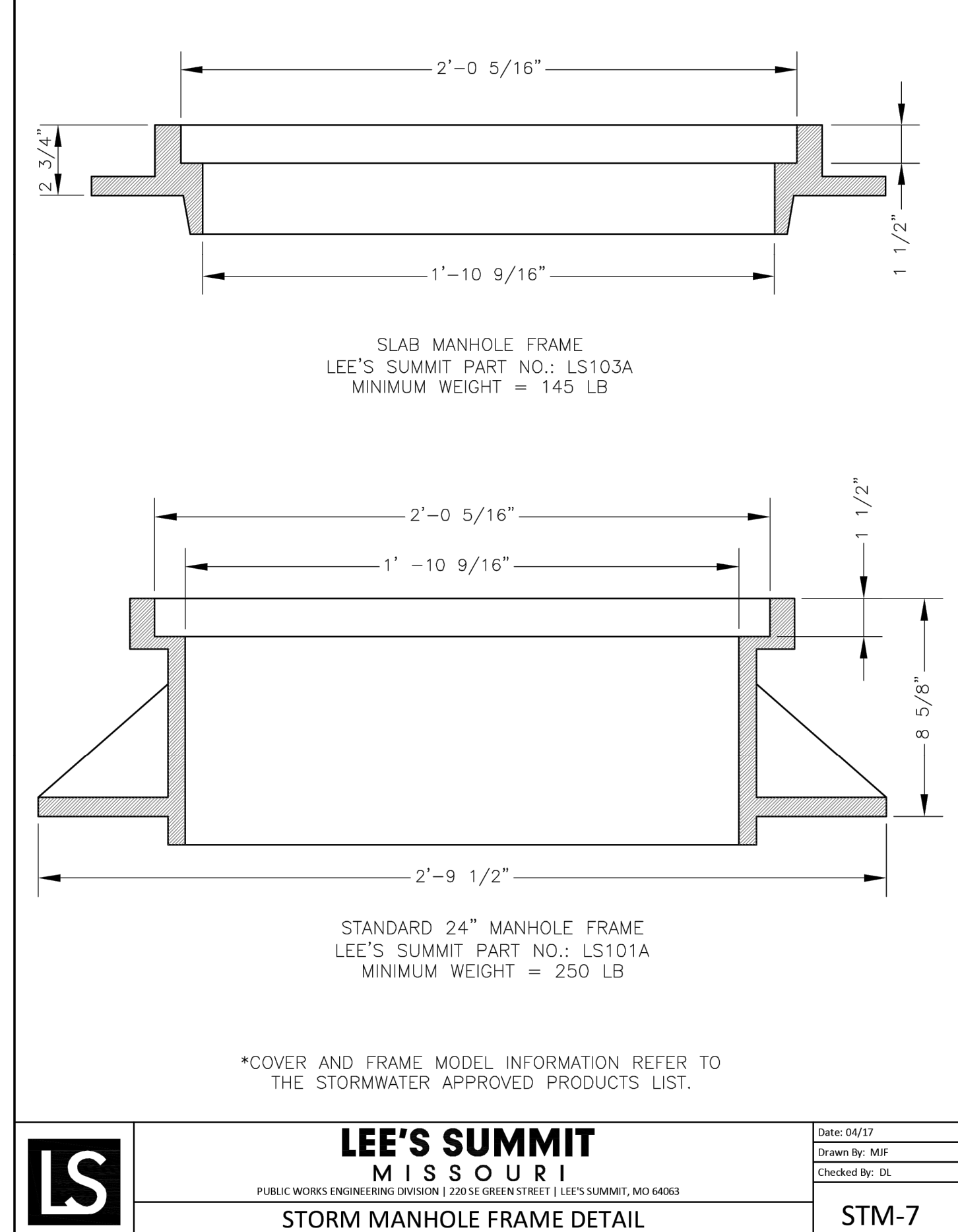
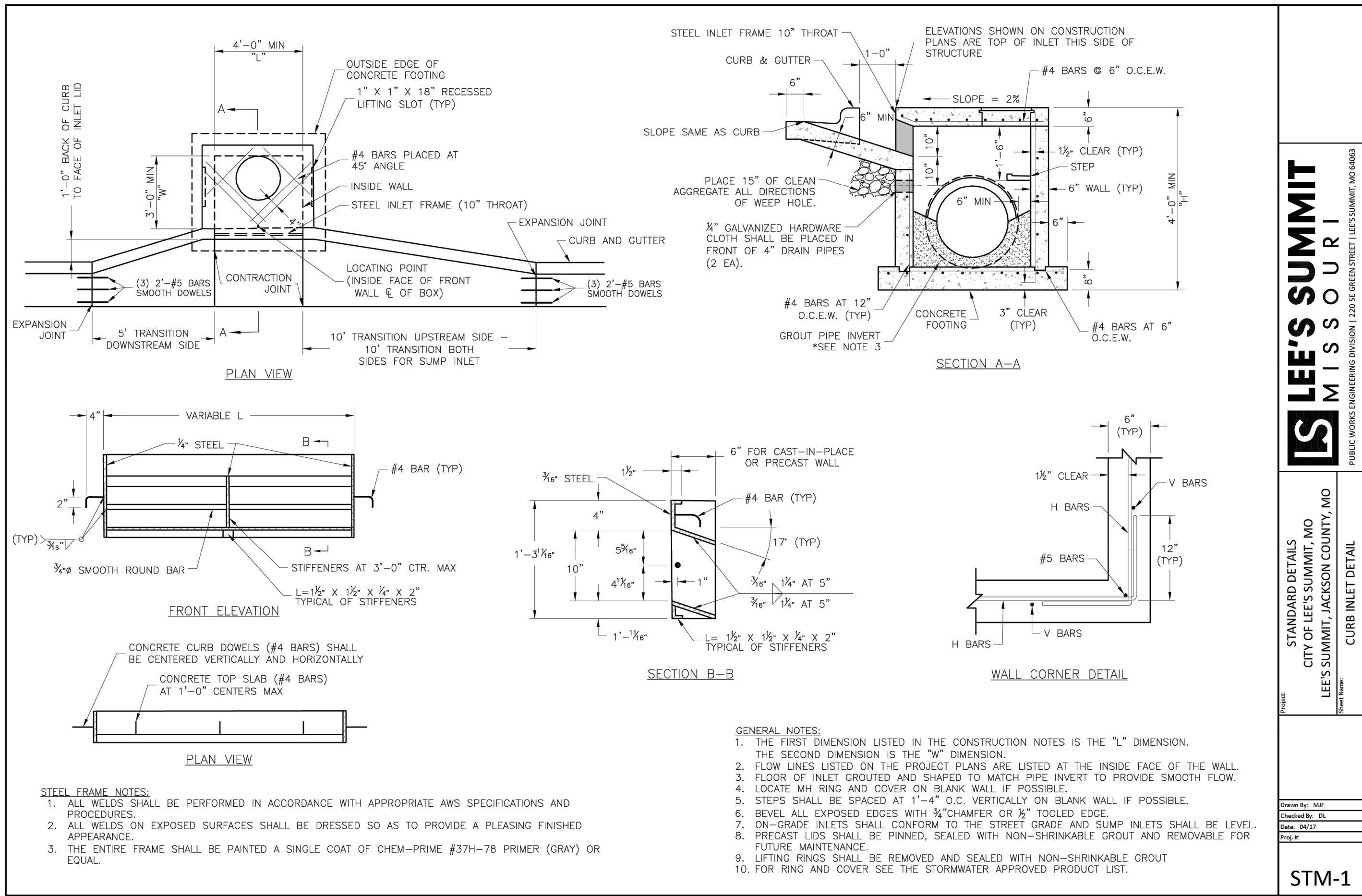
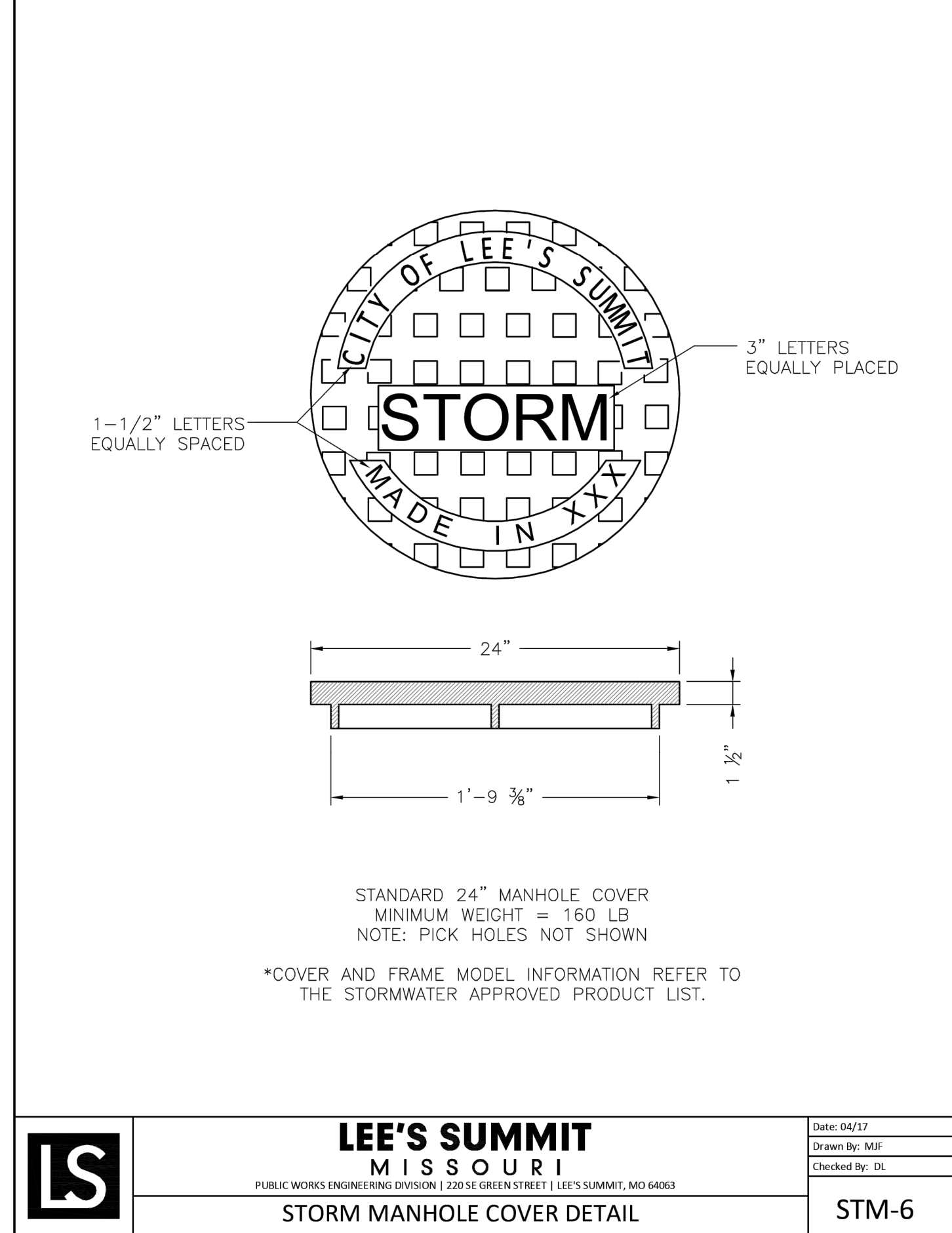
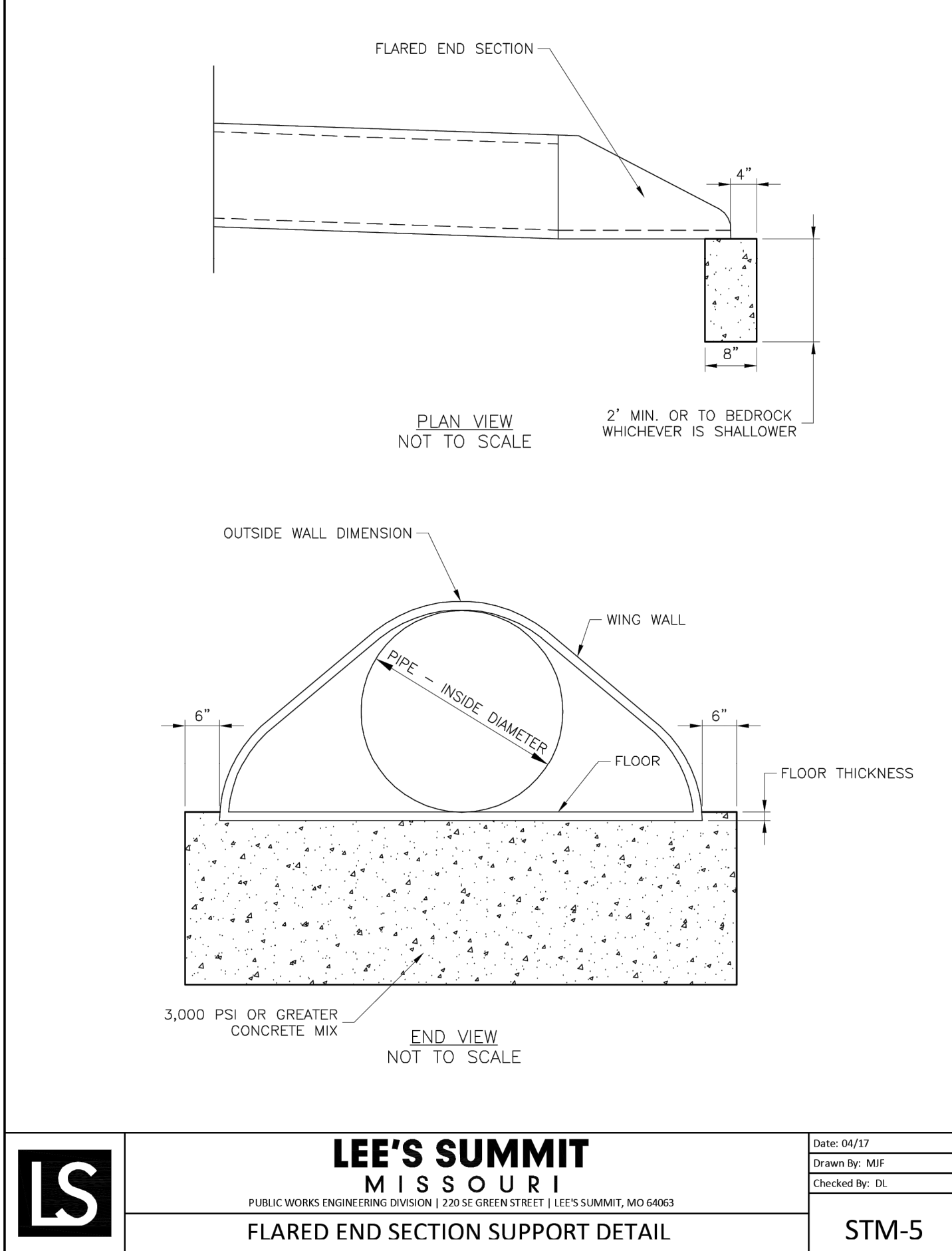
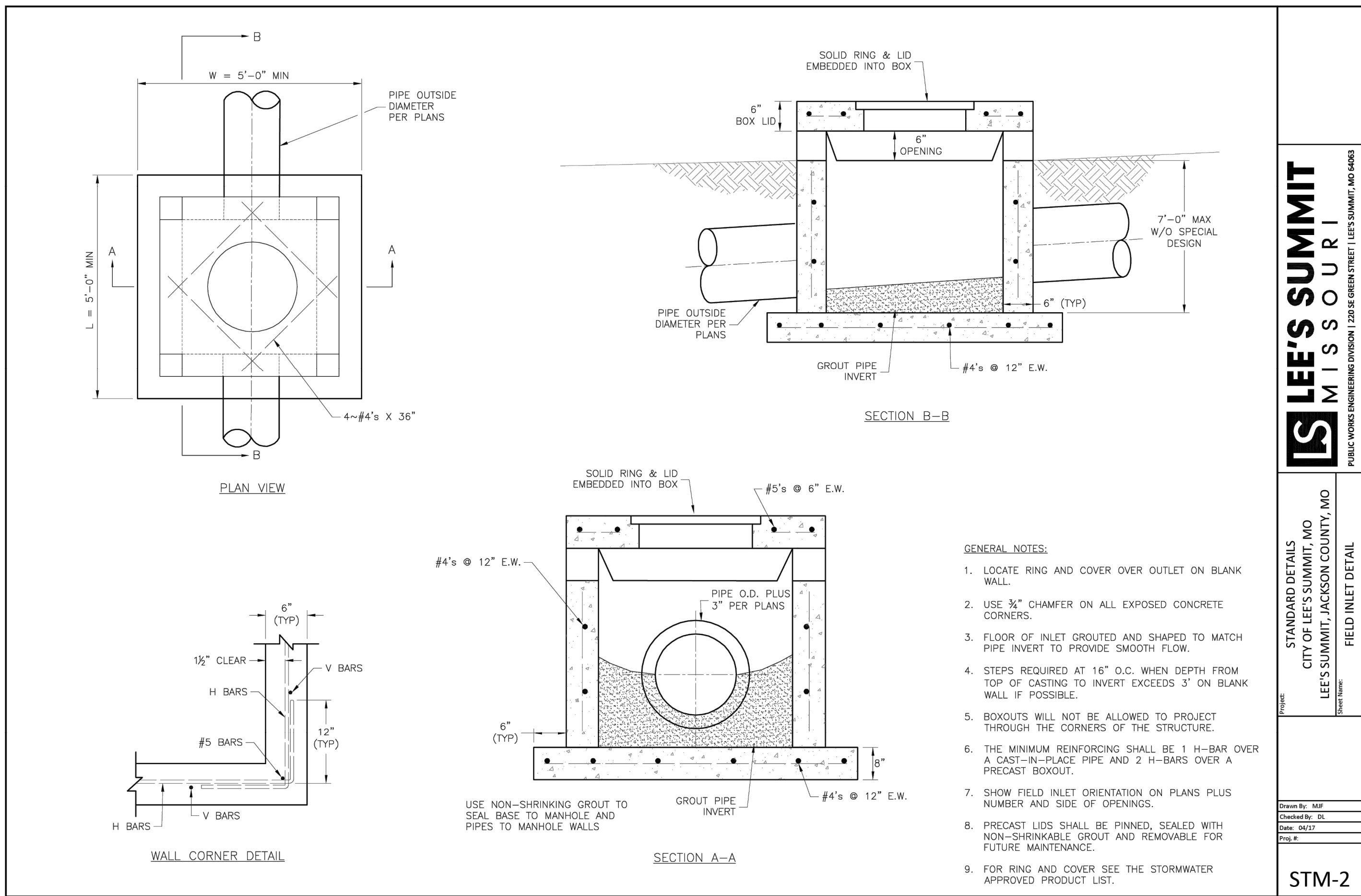
- REV. 5/31/2024
REV. 6/20/2024
REV. 7/30/2024
REV. 12/3/2024

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-3RD PLAT
LOTS 20-38 & TRACTS E-1
Lee's Summit, Jackson County, Missouri



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