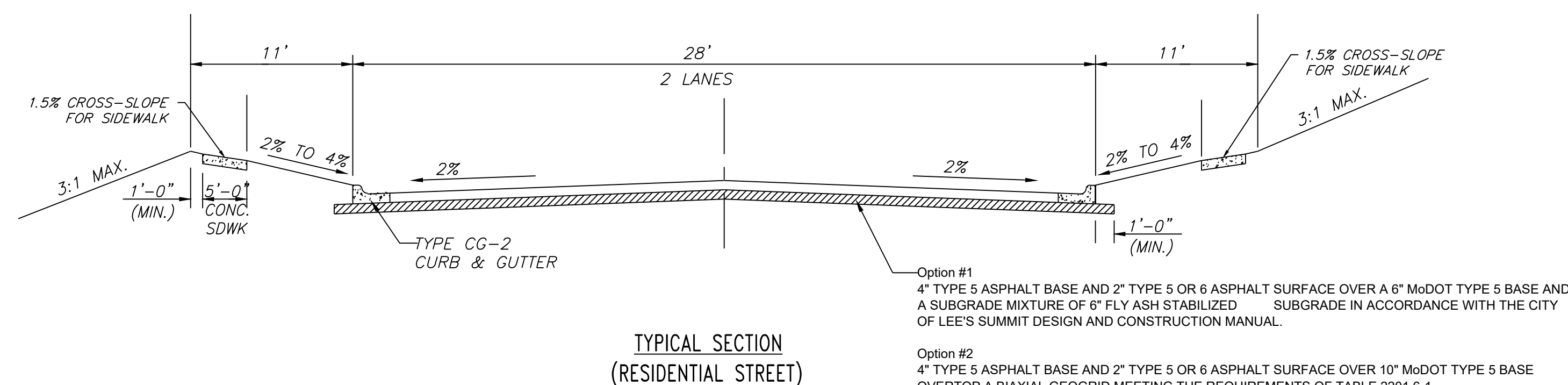


Section 8, Township 48 North, Range 31 West
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

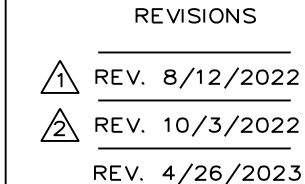
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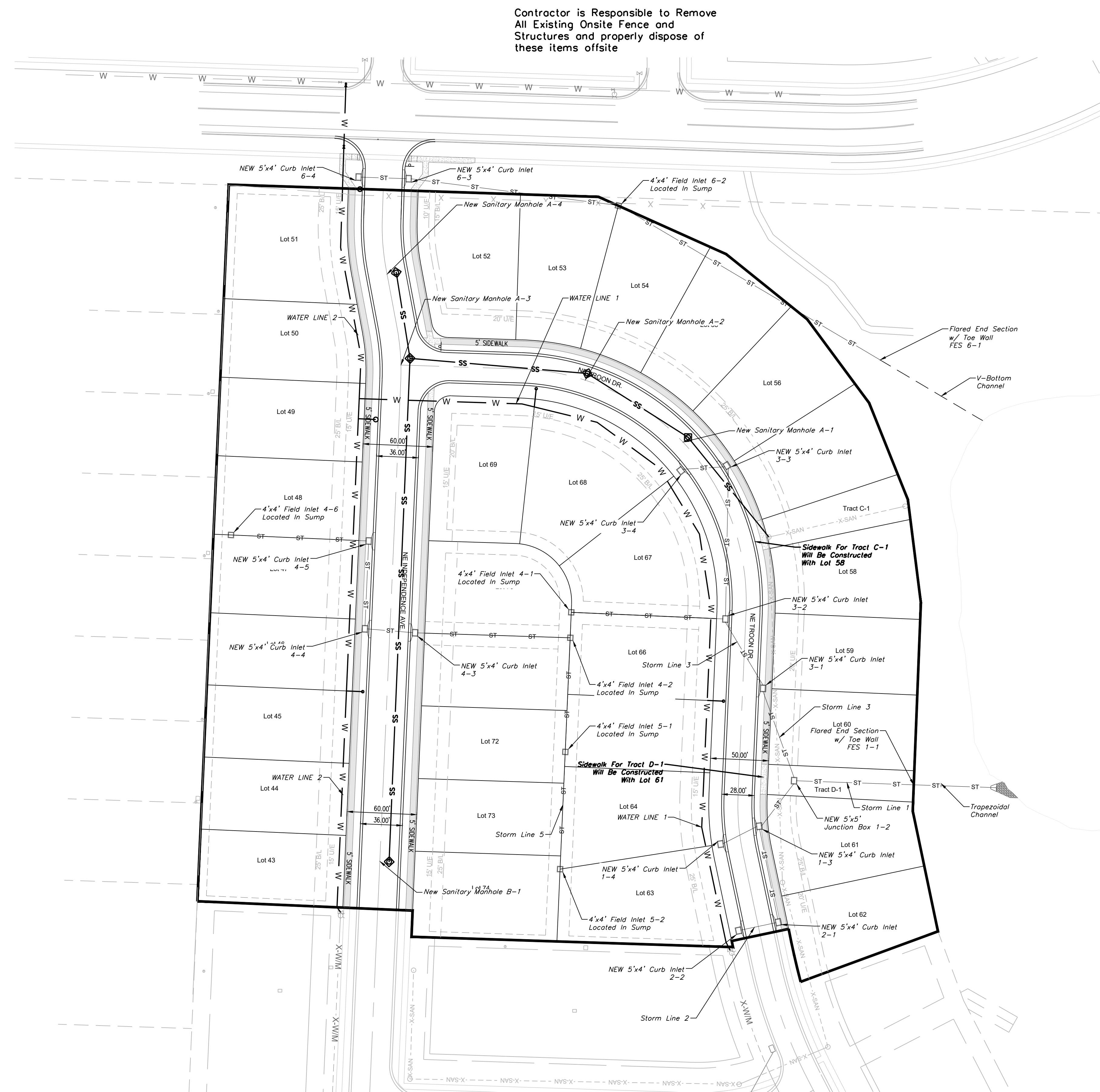


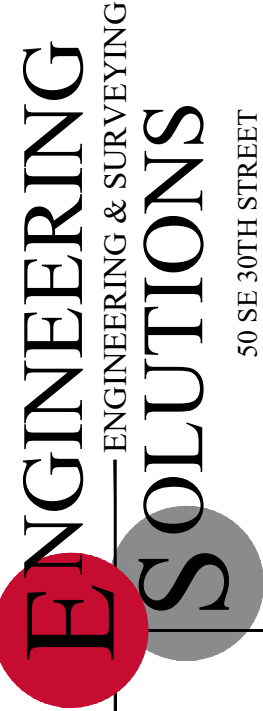
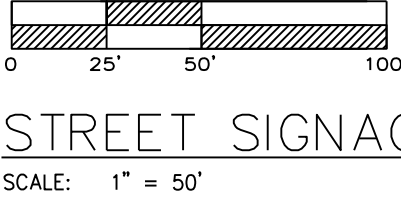
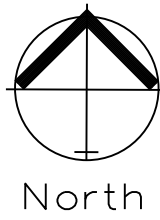
THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

Site Plan



C.100



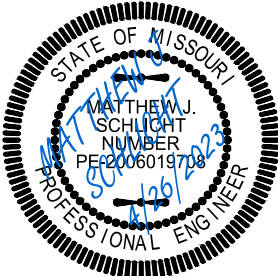


Professional Registration
Missouri
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Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

Project:
VILLAS OF CHAPEL
RIDGE-LSMO
Issue Date:
June 24, 2022

Street Signage
Construction Plans for:
THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri



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KS PE 19071
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Drainage Notes
Side yard swales for individual lots shall be graded during the plot plan process.

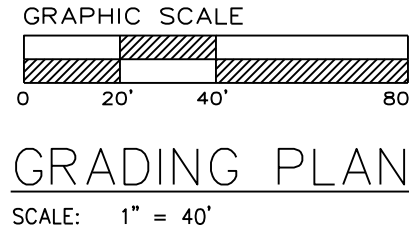
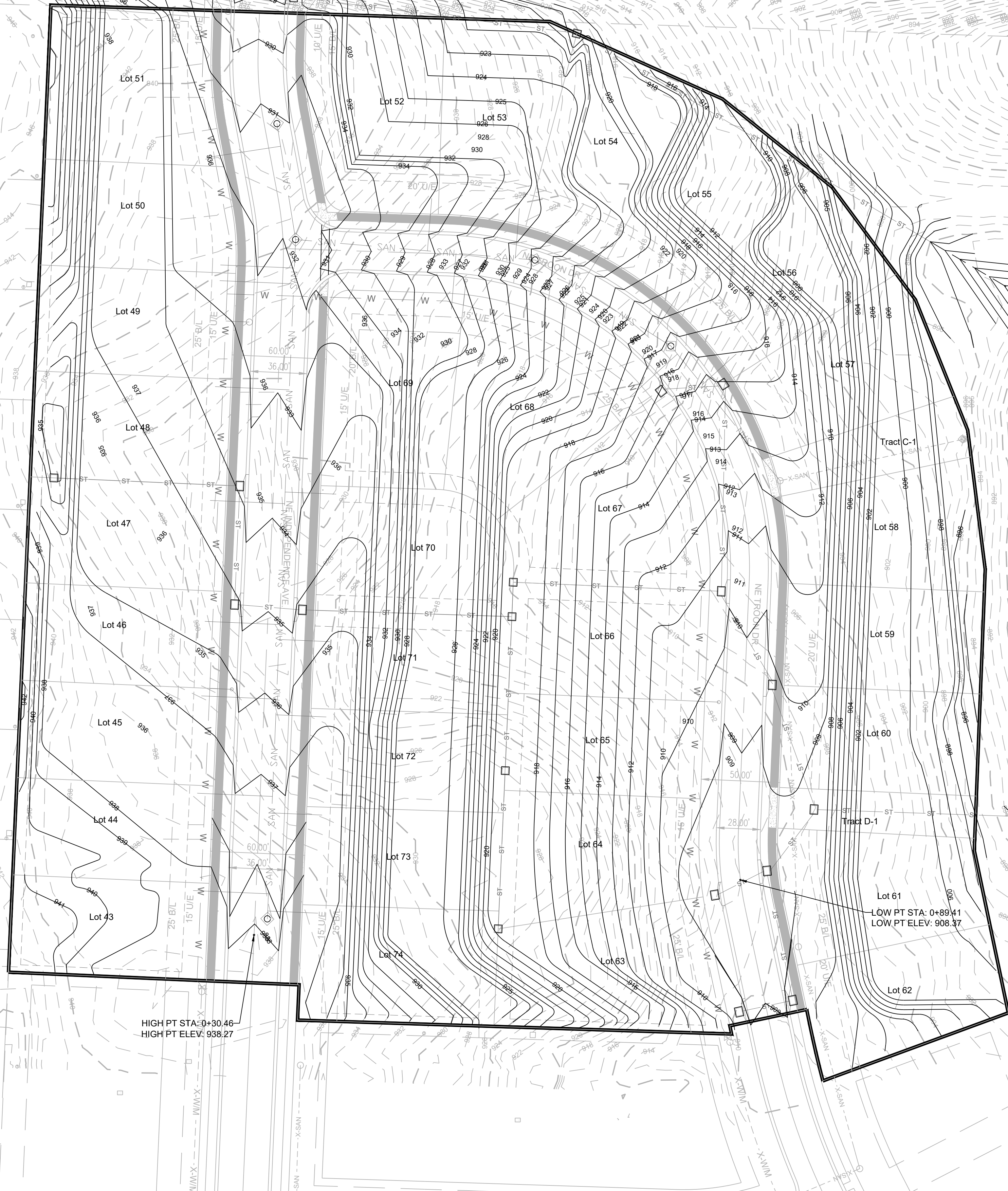
Estimated Cut / Fill Quantities

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.

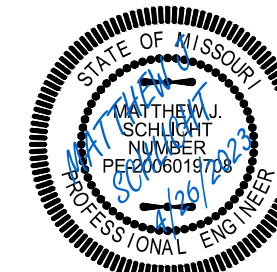


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THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

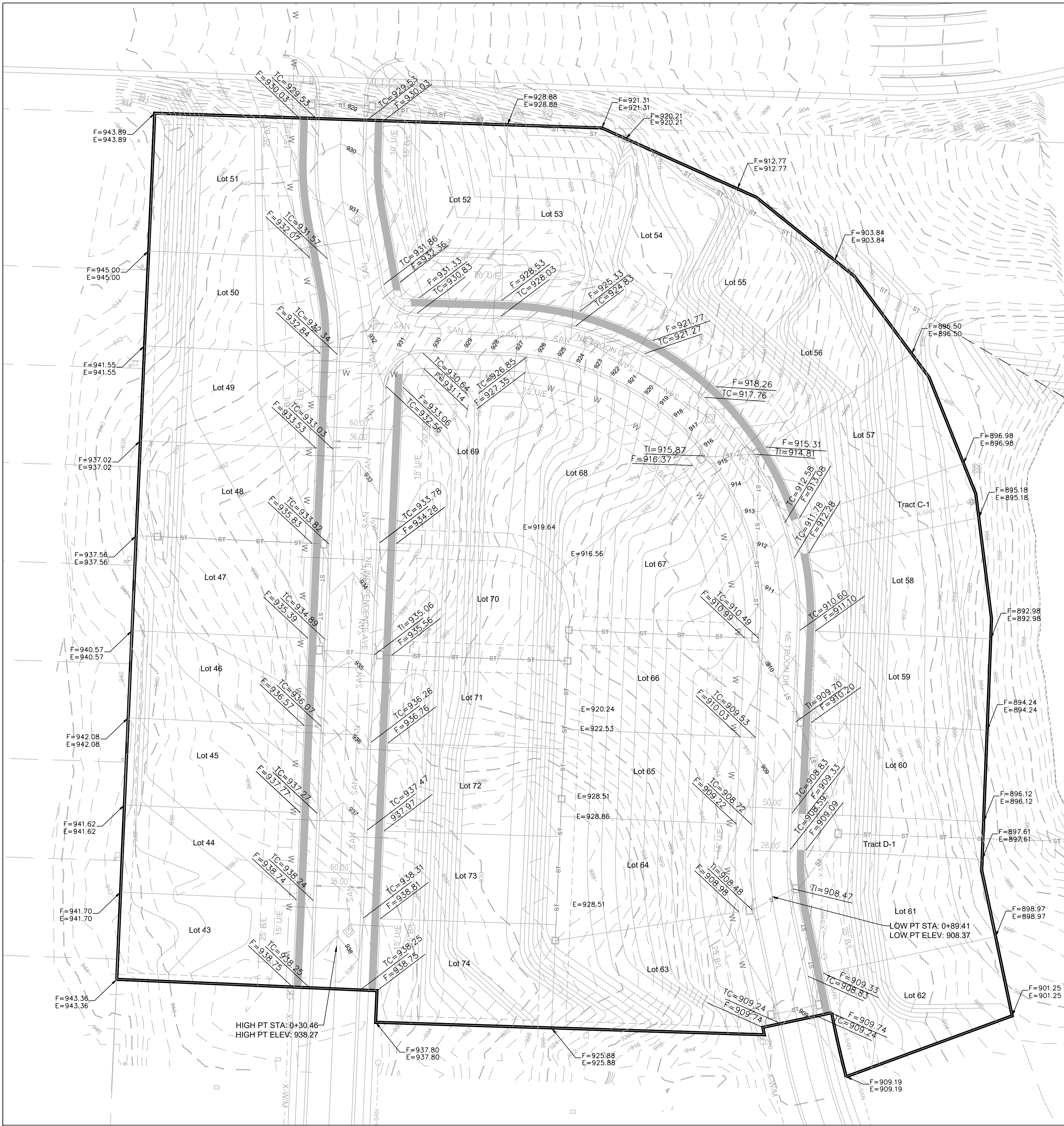
Project:
VILLAS OF CHAPEL
RIDGE-LSMO
Issue Date:
June 24, 2022

Master Drainage Plan 1 of 3:
Grading Plan
Construction Plans for:
THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri



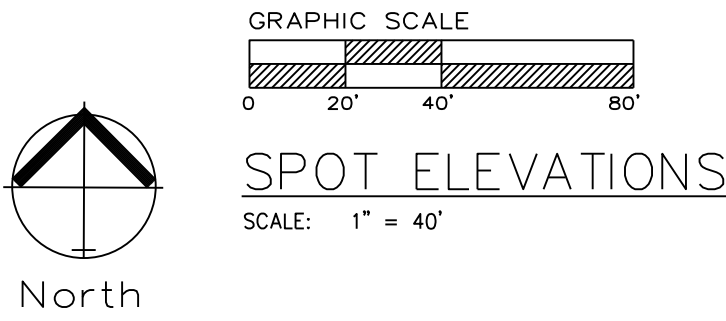
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REV. 4/26/2023



Note:
AS GRADED PLOT PLAN REQUIRED FOR EACH LOT.

Lot Number	Basement Type	MBOE
43	Full	942.00
44	Full	941.00
45	Full	940.00
46	Full	939.00
47	Full	939.00
48	Full	940.00
49	Full	941.00
50	Full	942.00
51	Full	N/A
52	Daylight	N/A
53	Walkout	N/A
54	Walkout	N/A
55	Walkout	N/A
56	Walkout	N/A
57	Walkout	N/A
58	Walkout	N/A
59	Walkout	N/A
60	Walkout	N/A
61	Walkout	N/A
62	Walkout	N/A
63	Full	913.00
64	Full	913.00
65	Full	913.00
66	Full	914.00
67	Full	920.00
68	Full	N/A
69	Walkout	N/A
70	Walkout	N/A
71	Walkout	N/A
72	Walkout	N/A
73	Walkout	N/A
74	Walkout	N/A



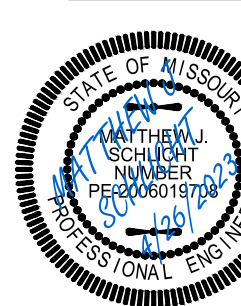
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ENGINEERING & SURVEYING
SOLUTIONS
50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
P: (816) 623-9888 F: (816) 623-9849

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THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

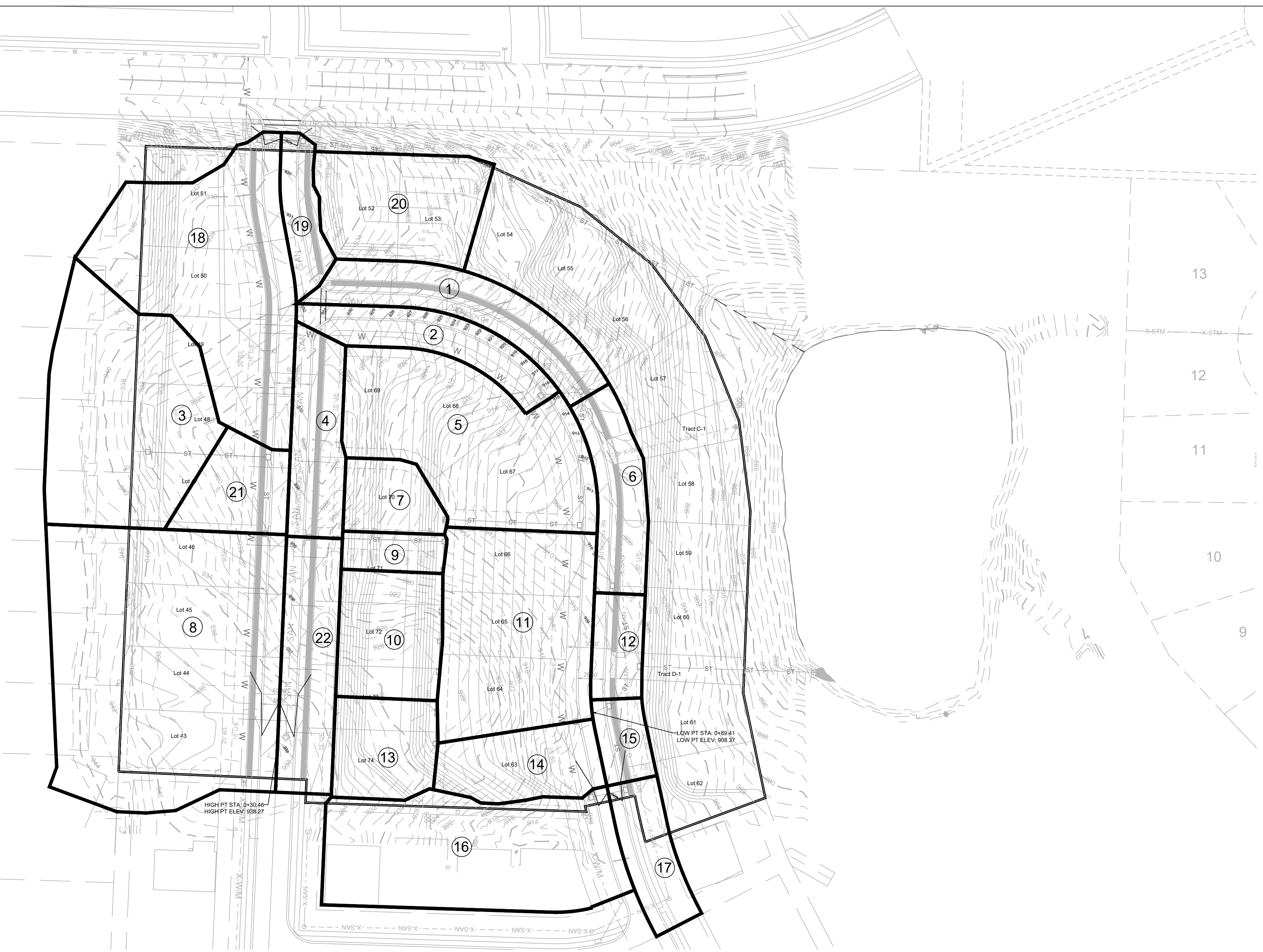
Project:
VILLAS OF CHAPEL
RIDGE-LSMO
Issue Date:
June 24, 2022

Master Drainage Plan 2 of 3:
Spot Elevations
Construction Plans for:
THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri



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REV.	8/12/2022
REV.	10/3/2022
REV.	4/26/2023



GRAPHIC SCALE
0 30' 60' 120'
DRAINAGE AREA MAP
SCALE: 1" = 60'

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ENGINEERING & SURVEYING
50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
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THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

Project:
VILLAS OF CHAPEL RIDGE-LSMO
Issue Date:
June 24, 2022

Master Drainage Map 3 of 3:
Drainage Area Map
Construction Plans for:
THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

REVISIONS
REV. 8/12/2022
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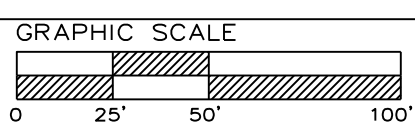
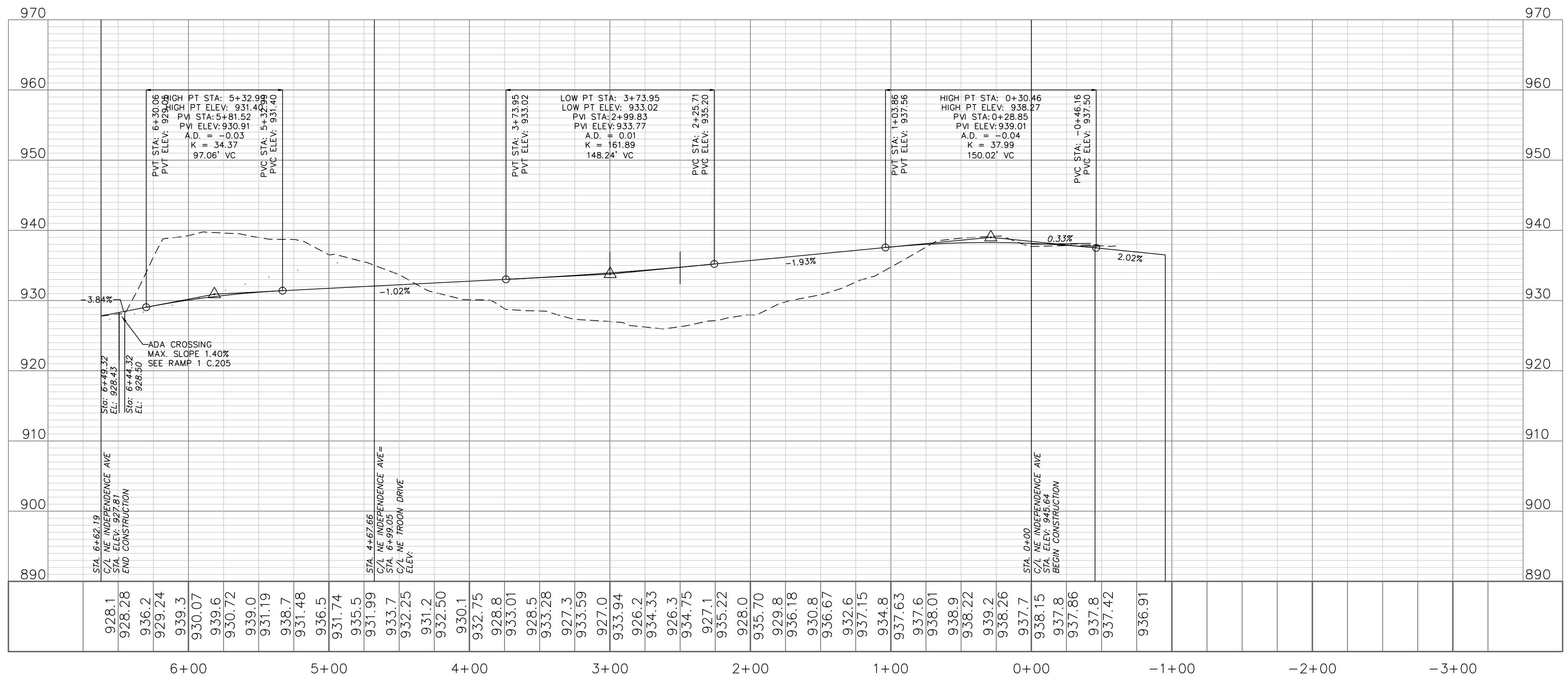
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C. 202

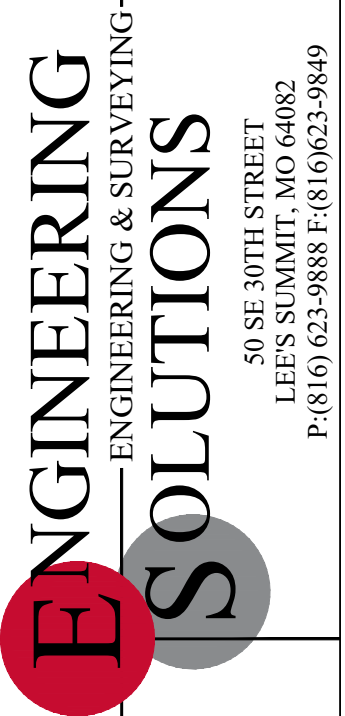
APWA STORM DRAINAGE "TC" COMPUTATIONS FOR: VILLAS OF CHAPEL RIDGE 2ND PLAT																														
		yellow areas are self computing overwrite if necessary				Surface types: SURFACE CODES "C" Values					Lake MultFam SnglFam Undev Other L M S U Z																			
		TOTAL WATERSHED				Overwrite Length - DnElev or Slope if necessary					SURFACE CODE P=Paved U=Unpaved Overwrite Slope or Elevations P or U CHANNEL UP DN SLOPE VELOCITY LENGTH ELEV ELEV % F/S					TC COMPUTATION														
AREA ID	TOTAL SQ.FT.	TOTAL ACRES	WTRSHD LENGTH	UP ELEV	DN ELEV	SURFACE CODE	"C" VALUE	OVRLND LENGTH	UP ELEV	DN ELEV	SLOPE %	P CODE	CHANNEL LENGTH	UP ELEV	DN ELEV	SLOPE %	VELOCITY F/S	Cal Overland Flow T(I)	Used Min 5 Max 15 T(I)	Cal Channel One T(T)	Cal Channel Two T(T)	Total T@ 10	Intensity 10 I	Intensity 100 I	CFS 10 Q	K 1.25 CFS 100 Q	AREA ID			
PROP																											PROP			
1	13710	0.31	278.00	936.00	918.00	M	0.66	88.0	936.0	932.00	4.5	P	190.0	932.0	918.0	7.37	5.5	4.5	5.0	0.6	0.0	5.6	7.2	10.1	1.49	2.62	1			
2	10065	0.23	216.00	936.00	918.00	M	0.66	100.0	936.0	929.00	7.0	P	116.0	929.0	918.0	9.48	6.3	4.1	5.0	0.3	0.0	5.3	7.3	10.2	1.11	1.94	2			
3	33255	0.76	222.00	946.00	934.00	M	0.66	100.0	946.0	940.00	6.0	U	122.0	940.0	934.0	4.92	3.6	4.4	5.0	0.6	0.0	5.6	7.2	10.1	3.62	6.36	3			
4	24340	0.56	208.00	936.00	934.00	M	0.66	36.0	936.0	935.25	2.1	P	172.0	935.3	934.0	0.73	1.7	3.7	5.0	1.7	0.0	6.7	6.9	9.7	2.54	4.46	4			
5	31497	0.72	290.00	936.00	911.00	M	0.66	100.0	936.0	924.00	12.0	U	190.0	924.0	911.0	6.84	4.2	3.5	5.0	0.8	0.0	5.8	7.1	10.0	3.40	5.98	5			
6	9686	0.22	200.00	916.00	910.00	M	0.66	55.0	916.0	914.00	3.6	P	145.0	914.0	910.0	2.76	3.4	3.8	5.0	0.7	0.0	5.7	7.1	10.0	1.05	1.84	6			
7	6391	0.15	112.00	936.00	919.00	M	0.66	100.0	936.0	920.00	16.0	U	12.0	920.0	919.0	8.33	4.7	3.1	5.0	0.0	0.0	5.0	7.3	10.3	0.71	1.25	7			
8	60289	1.38	453.00	947.00	934.00	M	0.66	100.0	947.0	941.00	6.0	P	353.0	941.0	934.0	1.98	2.9	4.4	5.0	2.1	0.0	7.1	6.8	9.5	6.18	10.88	8			
9	3848	0.09	125.00	934.00	919.00	M	0.66	100.0	934.0	920.00	14.0	U	25.0	920.0	919.0	4.00	3.2	3.3	5.0	0.1	0.0	5.1	7.3	10.3	0.43	0.75	9			
10	12701	0.29	152.00	936.00	921.00	M	0.66	100.0	936.0	923.00	13.0	U	52.0	923.0	921.0	3.85	3.2	3.4	5.0	0.3	0.0	5.3	7.3	10.2	1.40	2.46	10			
11	29486	0.68	312.00	919.00	908.00	M	0.66	100.0	919.0	910.50	8.5	P	212.0	910.5	908.0	1.18	2.2	3.9	5.0	1.6	0.0	6.6	6.9	9.7	3.08	5.42	11			
12	5185	0.12	145.00	910.00	908.00	M	0.66	43.0	910.0	909.00	2.3	P	102.0	909.0	908.0	0.98	2.0	3.9	5.0	0.8	0.0	5.8	7.1	10.0	0.56	0.98	12			
13	9844	0.23	118.00	935.50	922.00	M	0.66	100.0	935.5	924.00	11.5	U	18.0	924.0	922.0	11.11	5.4	3.5	5.0	0.1	0.0	5.1	7.3	10.3	1.09	1.92	13			
14	10644	0.24	170.00	927.00	908.00	M	0.66	100.0	927.0	912.00	15.0	P	70.0	912.0	908.0	5.71	4.9	3.2	5.0	0.2	0.0	5.2	7.3	10.2	1.17	2.06	14			
15	4112	0.09	113.00	910.00	908.00	M	0.66	36.0	910.0	909.00	2.8	P	77.0	909.0	908.0	1.30	2.3	3.4	5.0	0.6	0.0	5.6	7.2	10.1	0.45	0.79	15			
16	31892	0.73	347.00	934.00	909.00	M	0.66	100.0	934.0	924.00	10.0	P	247.0	924.0	909.0	6.07	5.0	3.7	5.0	0.8	0.0	5.8	7.1	10.0	3.43	6.04	16			
17	7514	0.17	181.00	911.00	909.00	M	0.66	36.0	911.0	910.00	2.8	P	145.0	910.0	909.0	0.69	1.7	3.4	5.0	1.4	0.0	6.4	6.9	9.8	0.79	1.39	17			
18	36997	0.85	375.00	946.00	929.00	M	0.66	100.0	946.0	940.00	6.0	P	275.0	940.0	929.0	4.00	4.1	4.4	5.0	1.1	0.0	6.1	7.0	9.9	3.94	6.92	18			
19	5456	0.13	127.00	933.00	929.00	M	0.66	50.0	933.0	931.00	4.0	P	77.0	931.0	929.0	2.60	3.3	3.5	5.0	0.4	0.0	5.4	7.2	10.2	0.60	1.05	19			
20	16737	0.38	191.00	933.00	919.00	M	0.66	100.0	933.0	923.00	9.5	U	91.0	923.5	919.0	4.95	3.6	3.7	5.0	0.4	0.0	5.4	7.2	10.1	1.83	3.22	20			
21	8657	0.20	171.00	937.00	934.00	M	0.66	100.0	937.0	935.00	2.0	P	71.0	935.0	934.0	1.41	2.4	6.3	6.3	0.5	0.0	6.8	6.8	9.6	0.90	1.58	21			
22	13859	0.32	184.00	938.50	934.00	M	0.66	37.0	938.5	937.60	2.4	P	147.0	937.6	934.0	2.45	3.2	3.6	5.0	0.8	0.0	5.8	7.1	10.0	1.50	2.63	22			



NE INDEPENDENCE AVE



STREET PLAN & PROFILE
SCALE: 1" = 50'



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THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

Project:
VILLAS OF CHAPEL
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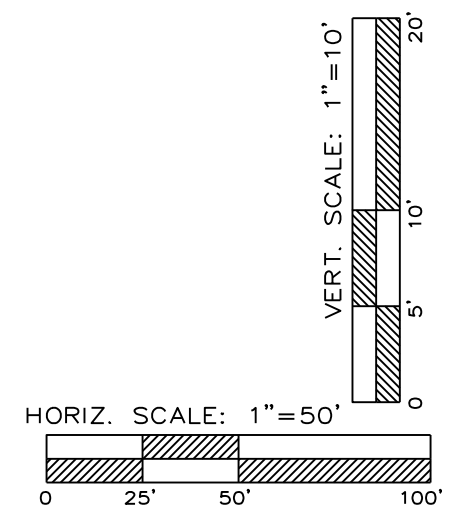
Street Plan and Profile

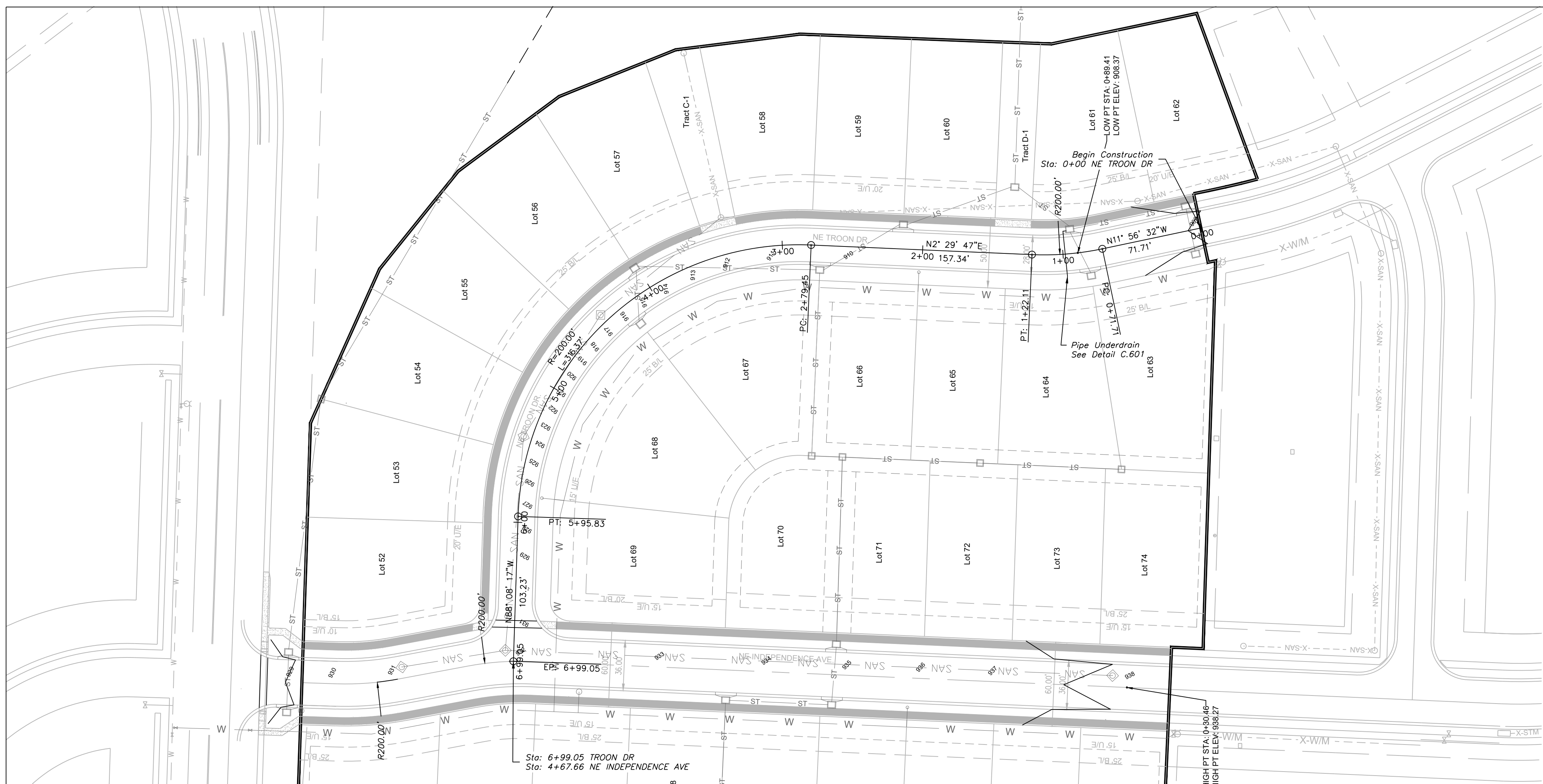
Construction Plans for:
THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri



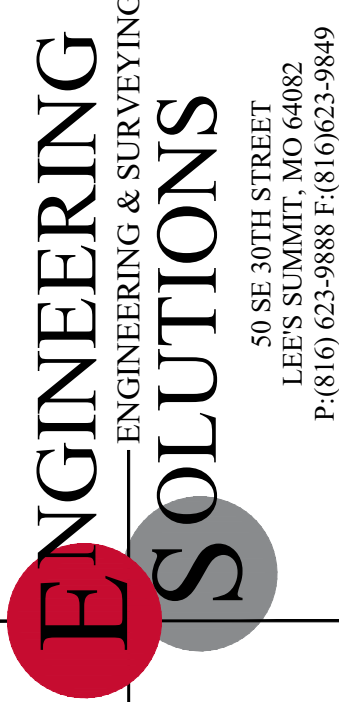
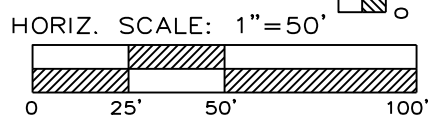
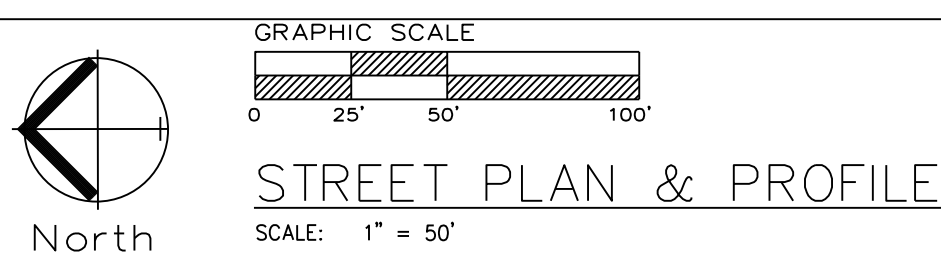
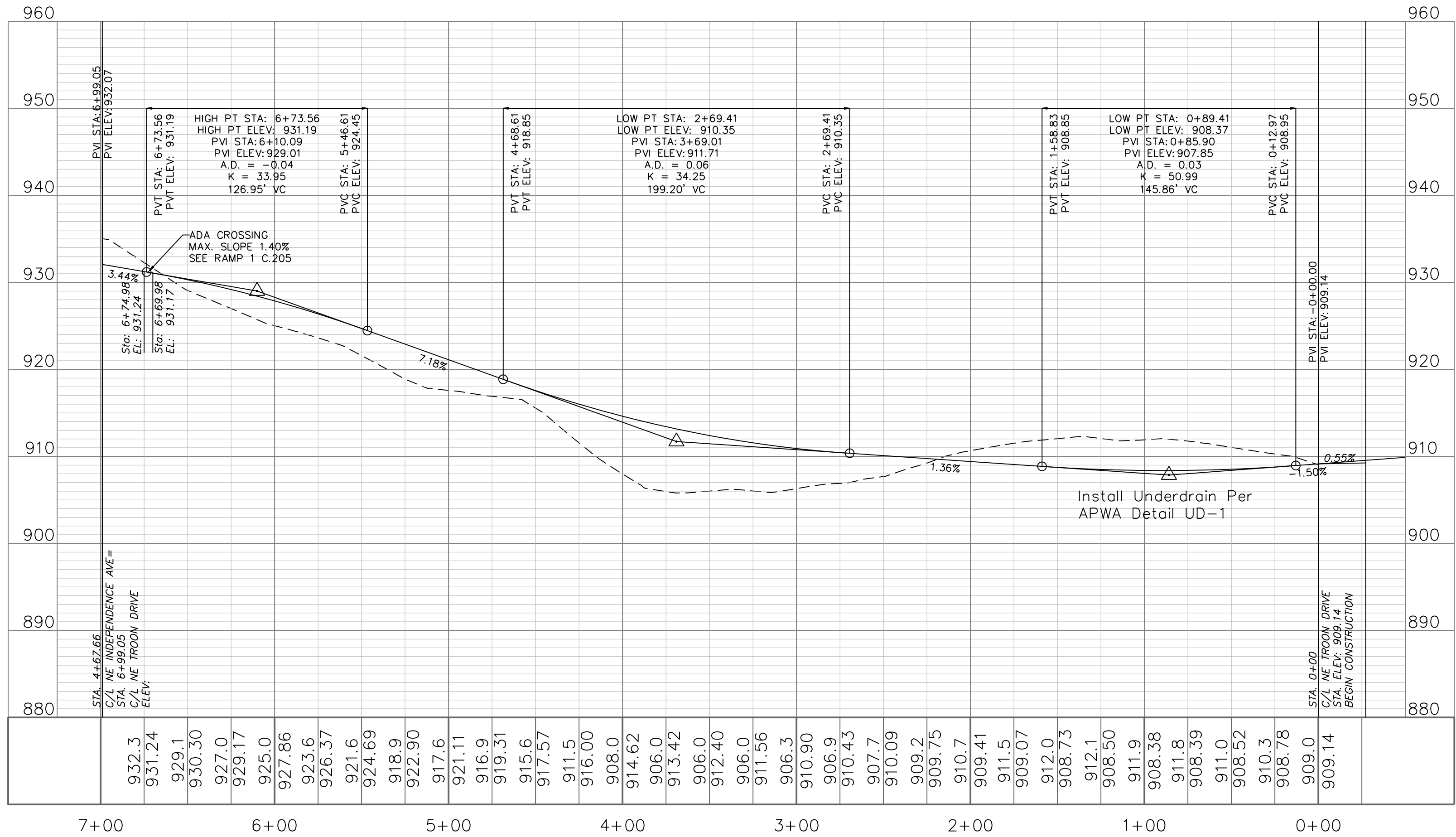
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NE TROON DRIVE

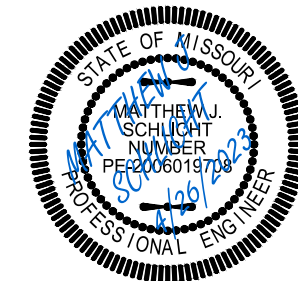


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THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

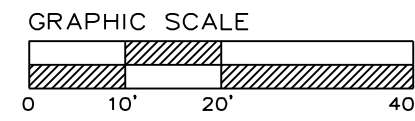
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Street Plan and Profile
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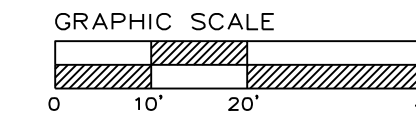
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SCALE: 1" = 20'

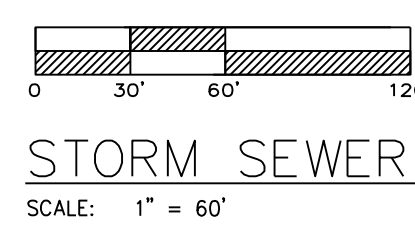
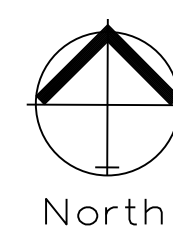


SPOT ELEVATION TABLE				
	Ramp 1	Ramp 2		
Spot	Elevation	Elevation		
A	928.11	930.84		
B	928.31	931.00		
C	928.43	931.17		
D	928.31	931.00		
E	928.09	930.83		
F	928.15	930.92		
G	928.39	931.08		
H	928.50	931.24		
I	928.39	931.07		
J	928.17	930.90		

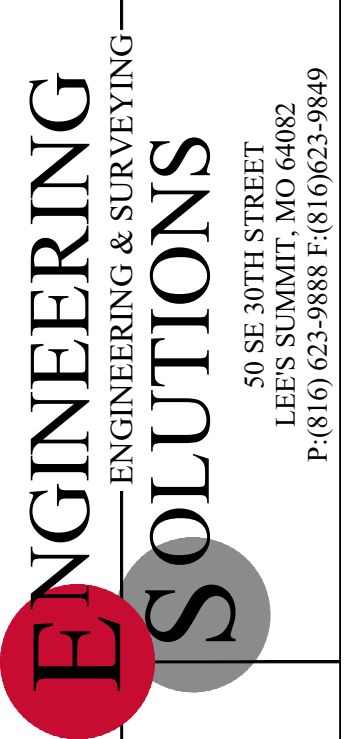


SCALE: 1" = 20'





STORM SEWER GENERAL LAYOUT

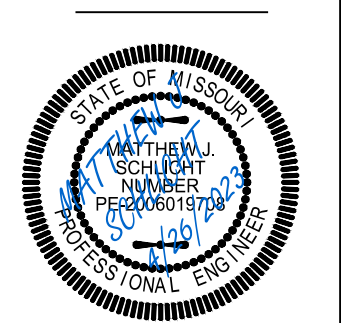


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Nebraska
Engineering CA2821

THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

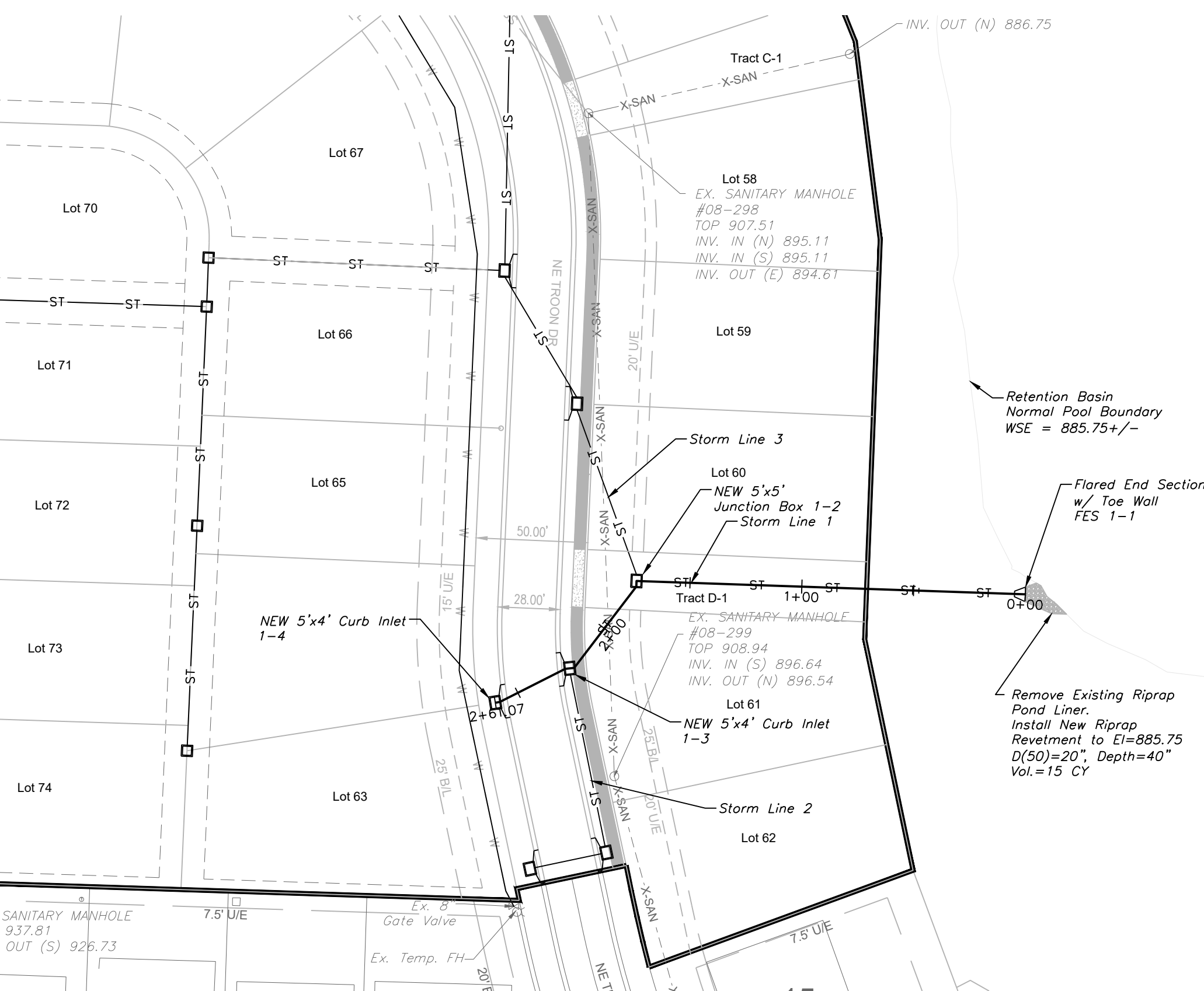
Project:
VILLAS OF CHAPEL
RIDGE-LSMO
Issue Date:
June 24, 2022

Storm Sewer General Layout
Construction Plans for:
THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri



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

REVISIONS	
REV. 8/12/2022	
REV. 10/3/2022	
REV. 4/26/2023	



950

940

930

920

910

900

890

880

870

2+00

1+00

0+00

5'x4' Curb Inlet 1-4
Sta: 2+67.07
Top: 908.48
FL Out (NE): 904.25

5'x4' Curb Inlet 1-3
Sta: 2+34.22
Top: 908.47
FL In (SW): 904.00
FL Out (NE): 903.25

5'x5' Junction Box 1-2
Sta: 1+73.94
Top: 908.50
FL In (SW): 900.50
FL (NW): 899.00 Line 3
FL Out (E): 898.50

15" HDPE PIPE
Storm Sewer @ 0.68%

18" HDPE PIPE
Storm Sewer @ 5.47%

30" HDPE PIPE
Storm Sewer @ 6.90%

Existing Grade

Proposed Grade

100 YEAR HGL

10 YEAR HGL

Riprap
Revetment

FL Pipe

36.85'

50.27'

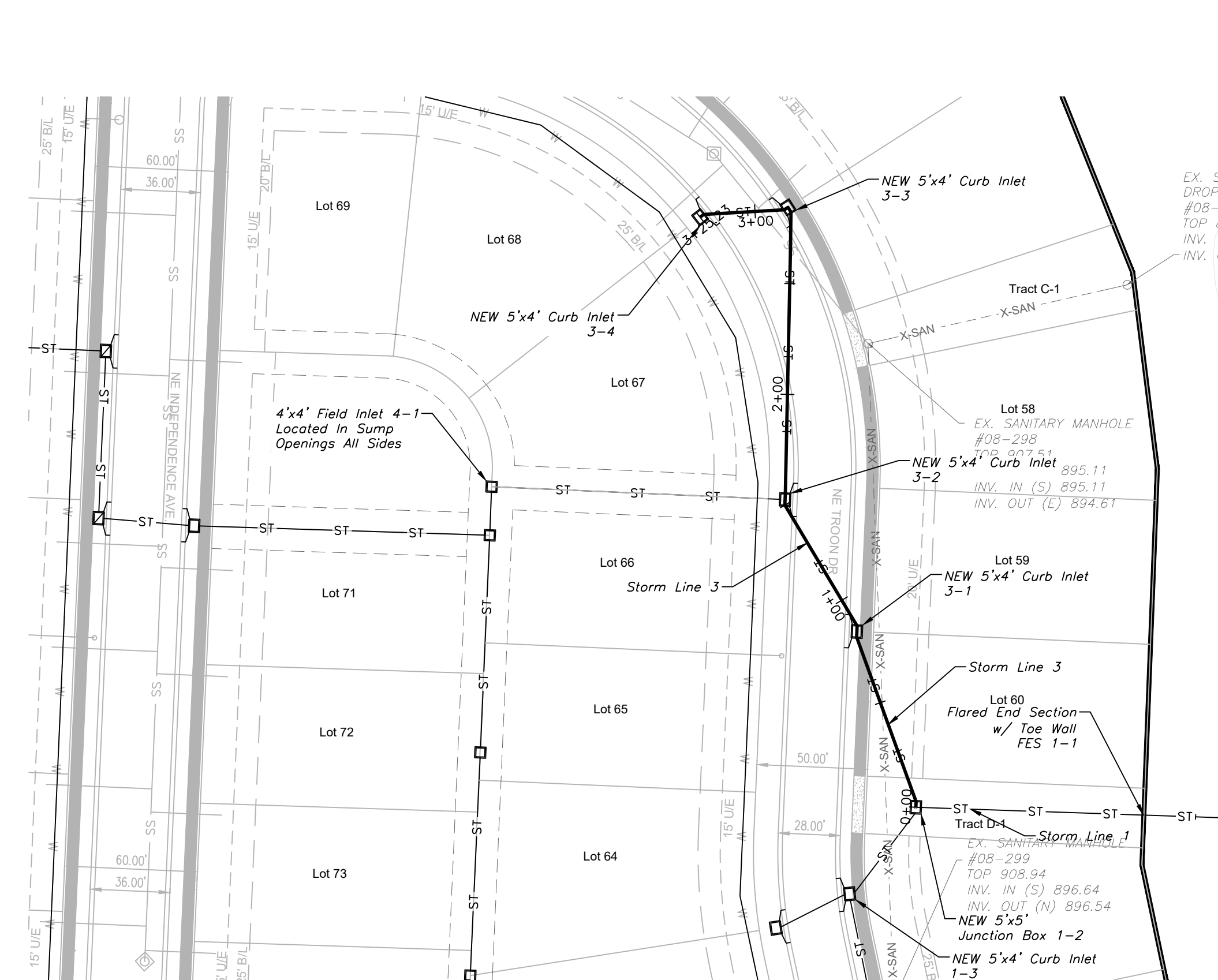
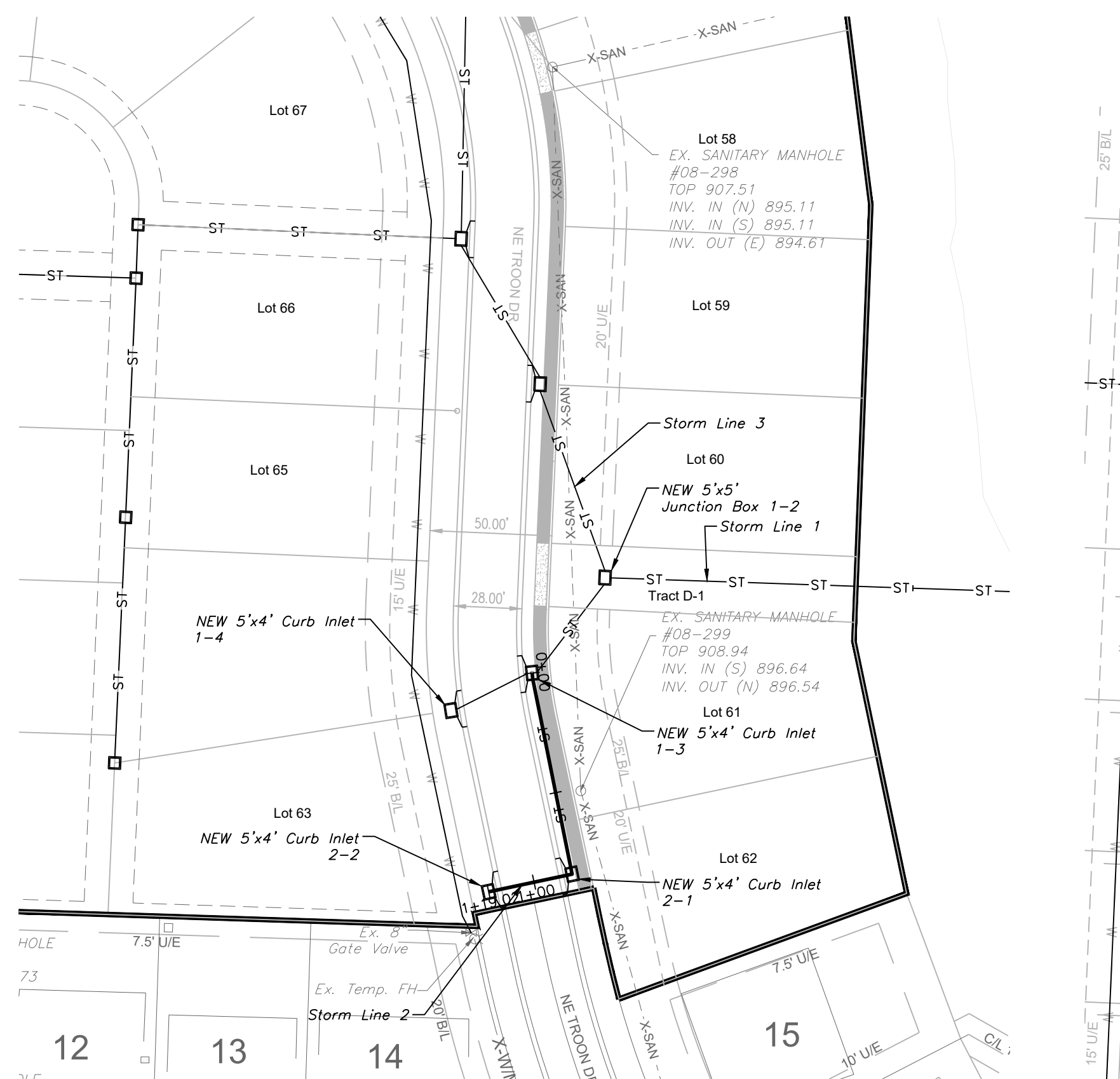
173.94'

VERT. SCALE: 1"=10'

HORIZ. SCALE: 1"=50'

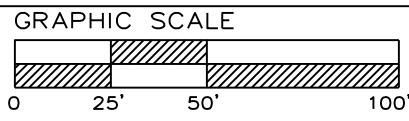
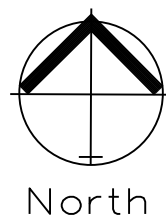
0 25' 50' 100'

0 5 10 20

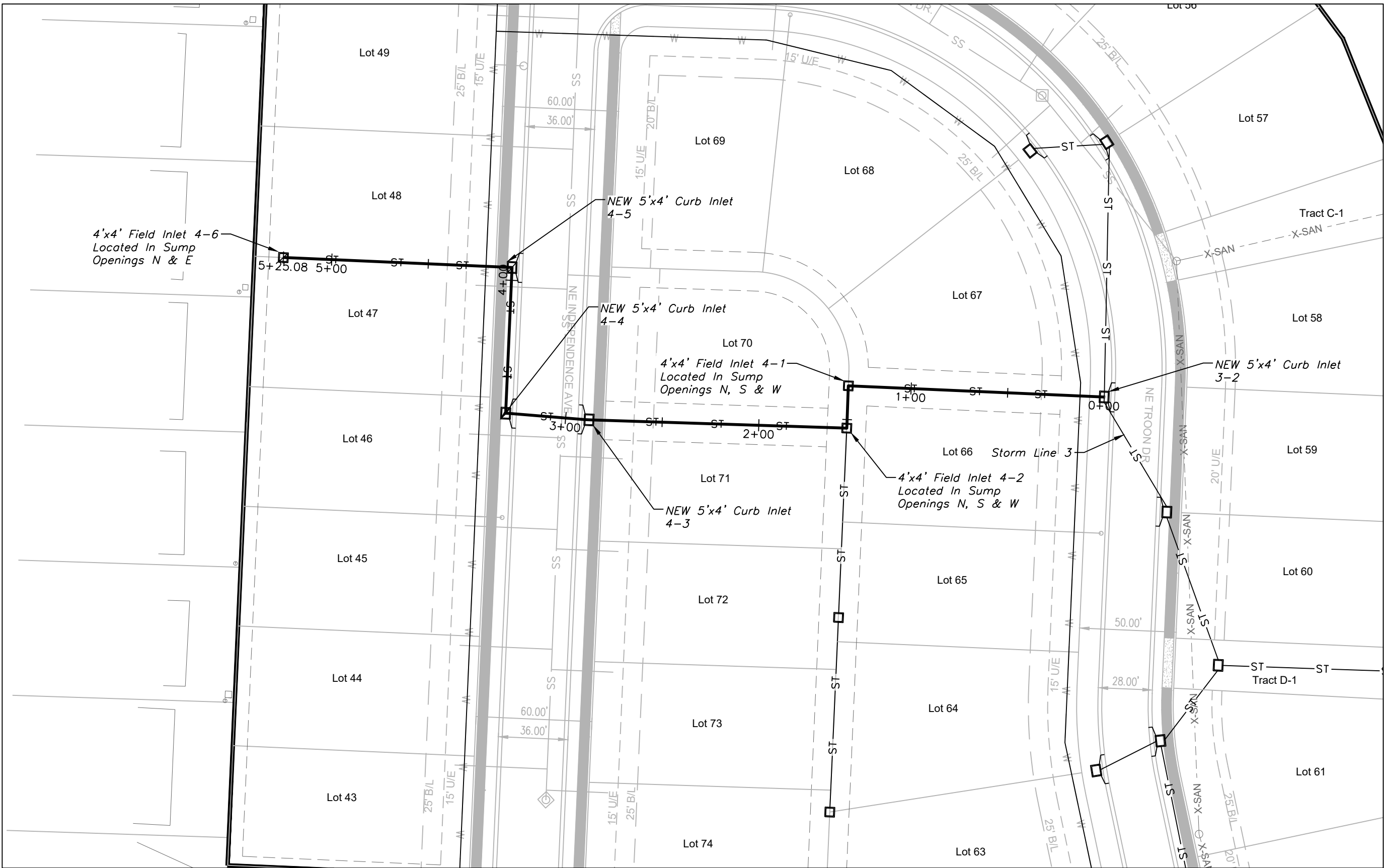


Profile view of the proposed 15" HDPE pipe storm sewer. The drawing shows the pipe profile with elevations from 870 to 950 feet. Key features include:

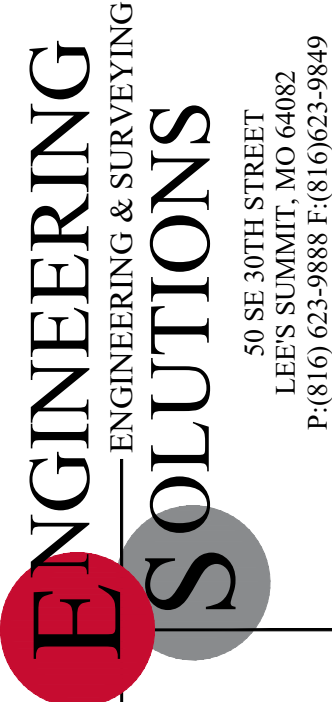
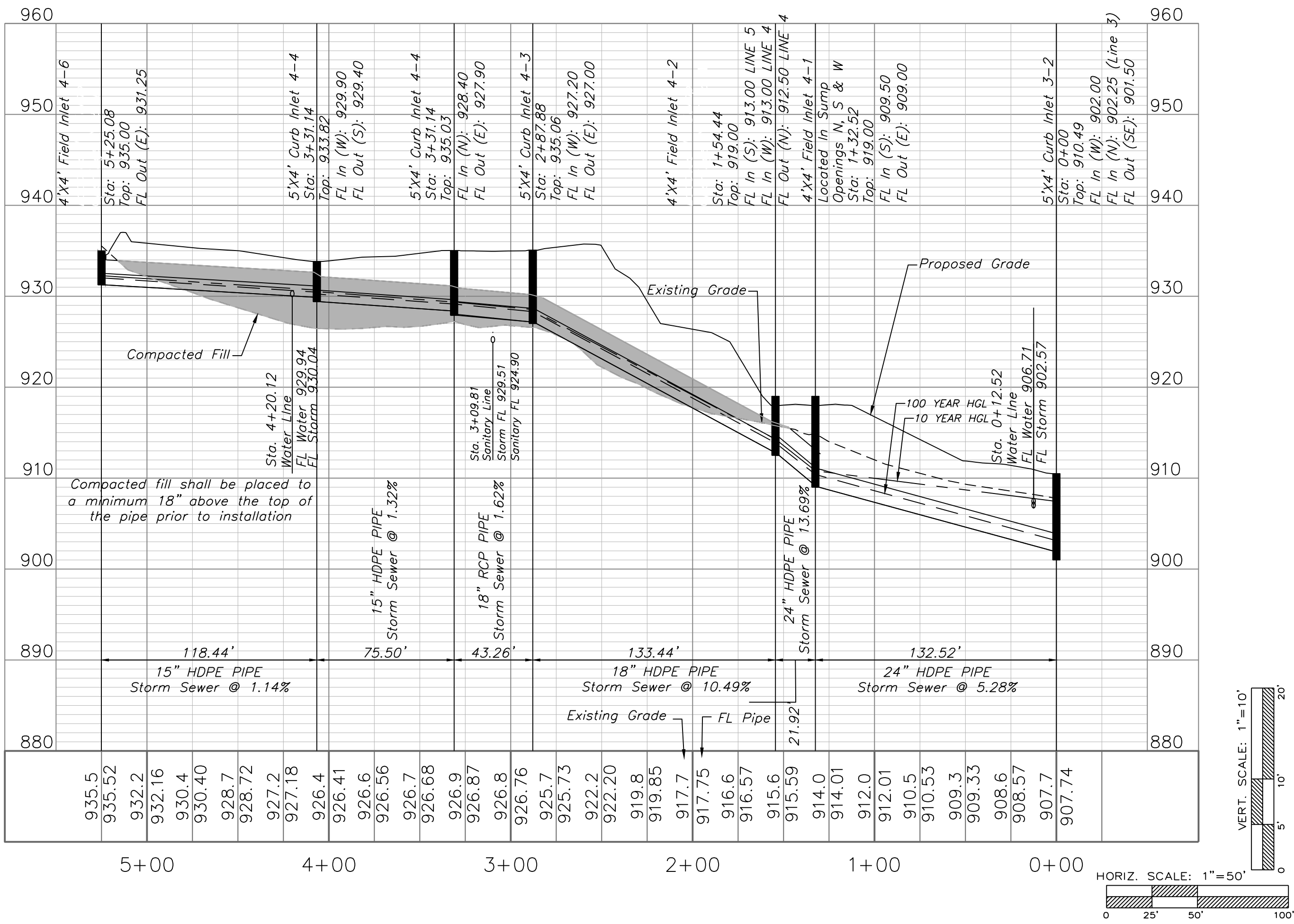
- Inlet Structures:**
 - Station 0+00: 5'x4' Curb Inlet 1-2. Elevation: 909.0.
 - Station 1+00: 5'x4' Curb Inlet 3-1. Elevation: 908.6.
 - Station 2+00: 5'x4' Curb Inlet 3-2. Elevation: 907.1.
 - Station 3+00: 5'x4' Curb Inlet 3-4. Elevation: 912.7.
- Pipe Segments:**
 - 30' HDPE PIPE Storm Sewer @ 1.19% Storm Sewer @ 1.19% Storm Sewer @ 1.19% Storm Sewer @ 1.19%
 - 24' HDPE PIPE Storm Sewer @ 1.09% Storm Sewer @ 1.09% Storm Sewer @ 1.09% Storm Sewer @ 1.09%
 - 15' HDPE PIPE Storm Sewer @ 6.43% Storm Sewer @ 6.43% Storm Sewer @ 6.43% Storm Sewer @ 6.43%
 - 15' HDPE PIPE Storm Sewer @ 5.56% Storm Sewer @ 5.56% Storm Sewer @ 5.56% Storm Sewer @ 5.56%
- Elevation Markers:**
 - Existing Grade
 - Proposed Grade
 - Compacted Fill
 - 100 YEAR HGL
 - 10 YEAR HGL
- Stationing and Offsets:**
 - Station 0+00: 83.98' offset.
 - Station 1+00: 68.55' offset.
 - Station 2+00: 132.24' offset.
 - Station 3+00: 40.46' offset.
- Sanitary and Storm Lines:**
 - Sanitary Line: Station 0+00.00, Station 1+00.00, Station 2+00.00, Station 3+00.00.
 - Storm Line: Station 0+00.00, Station 1+00.00, Station 2+00.00, Station 3+00.00.
- Note:** Compacted fill shall be placed to a minimum 18" above the top of the pipe prior to installation.



STORM SEWER PLAN & PROFILE
SCALE: 1" = 50'



STORM LINE 4

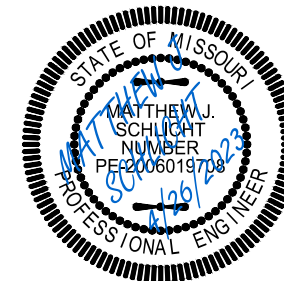


Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1685
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

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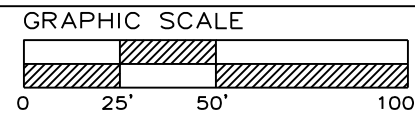
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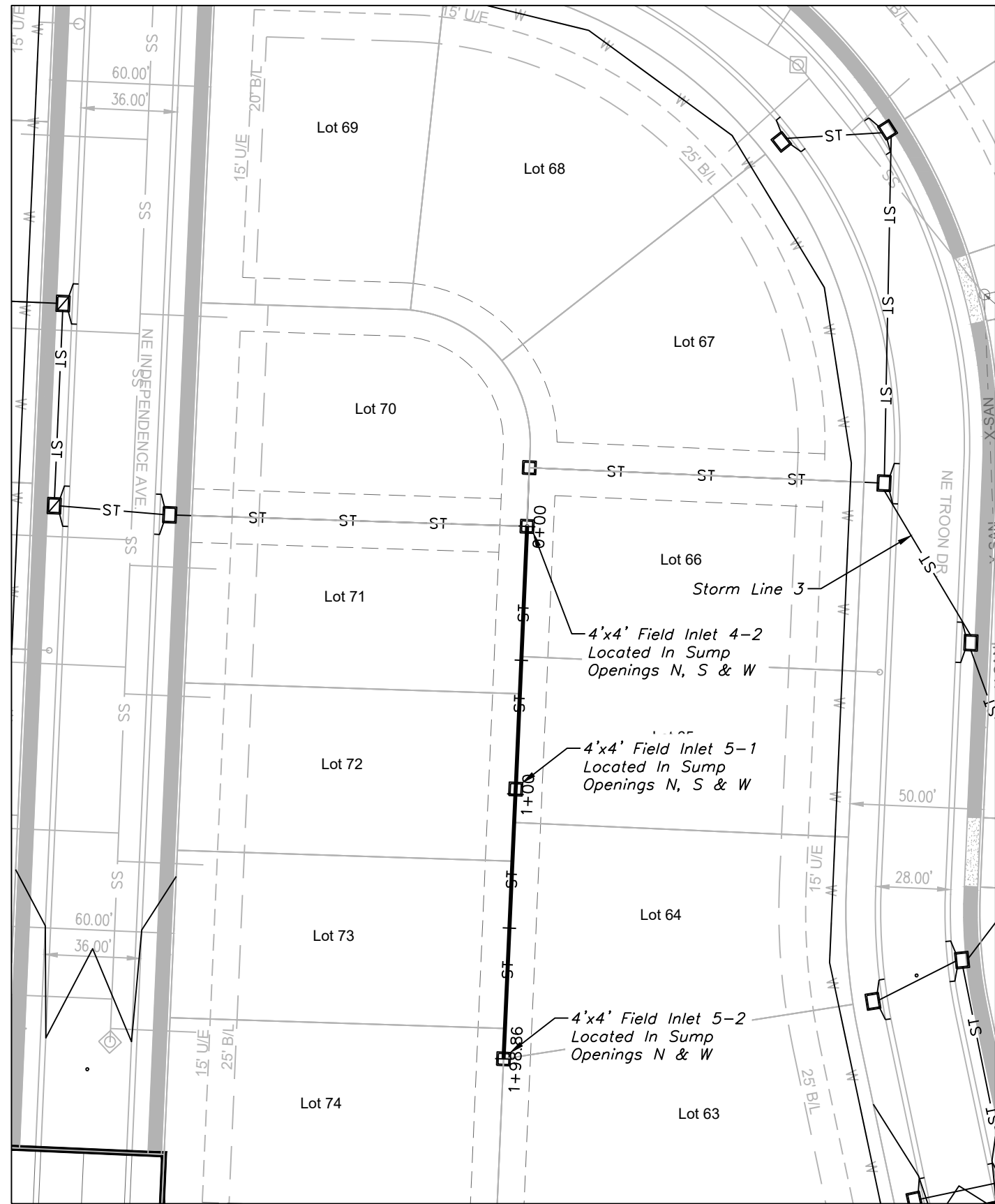


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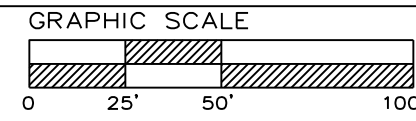
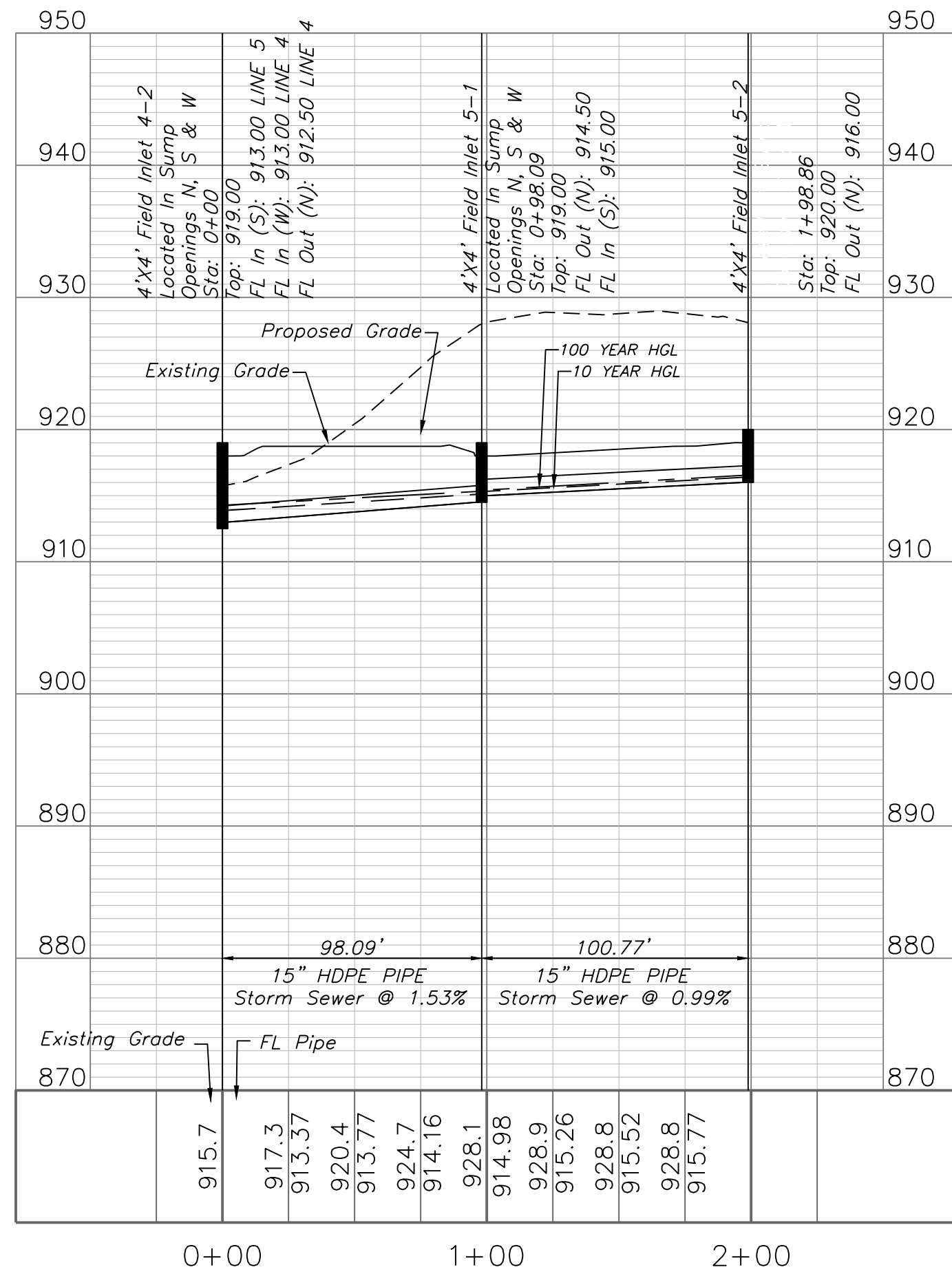
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REV. 8/12/2022
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REV. 4/26/2023



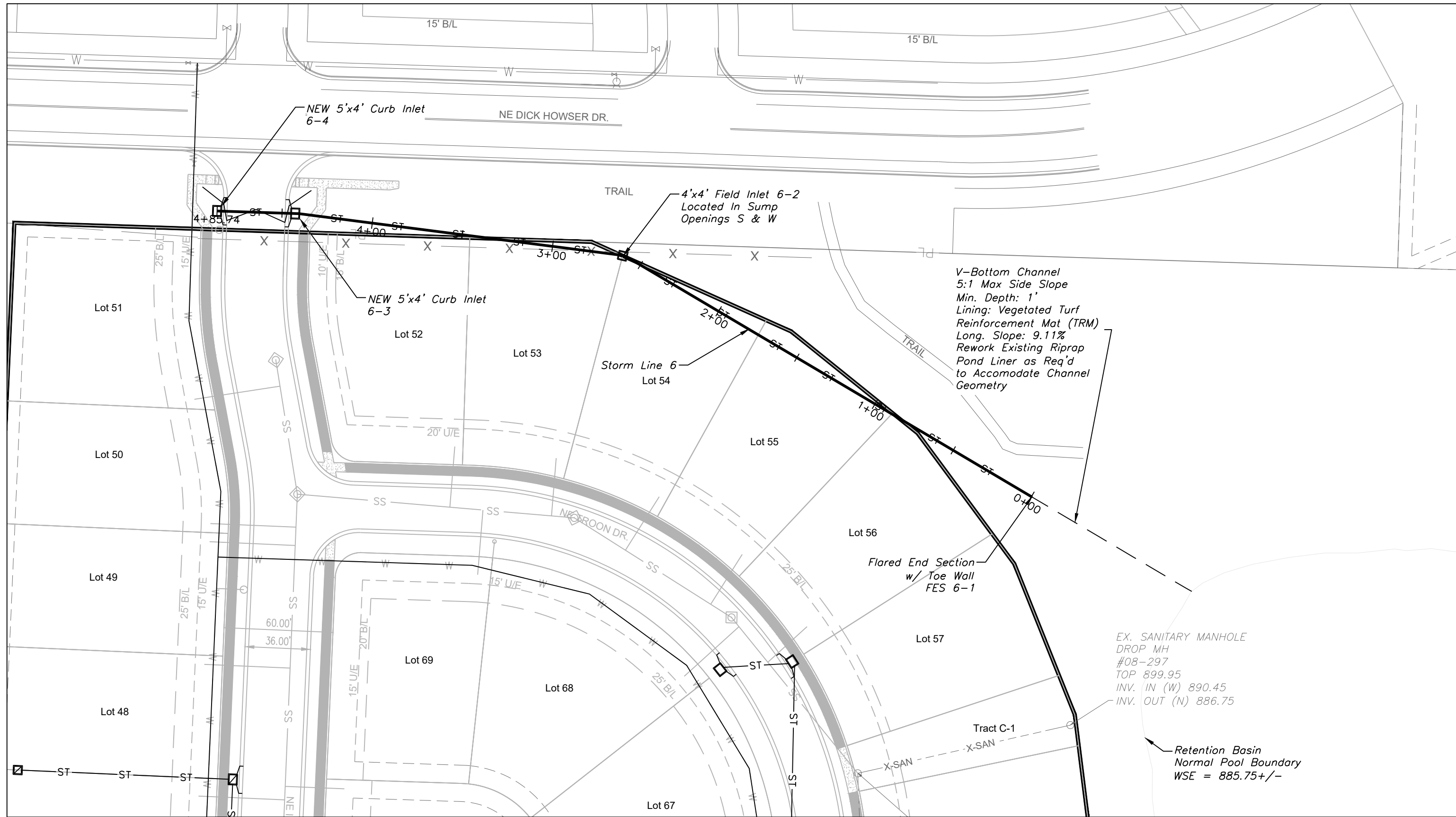
STORM SEWER PLAN & PROFILE
SCALE: 1" = 50'



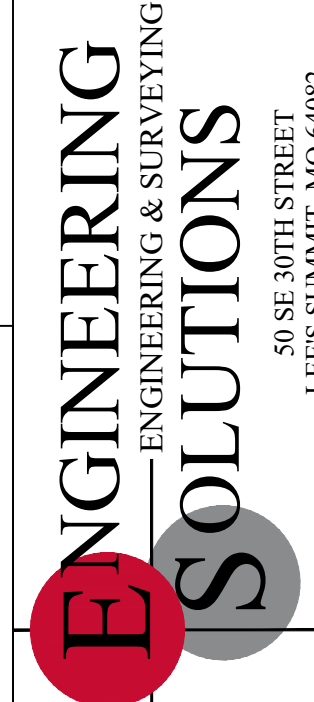
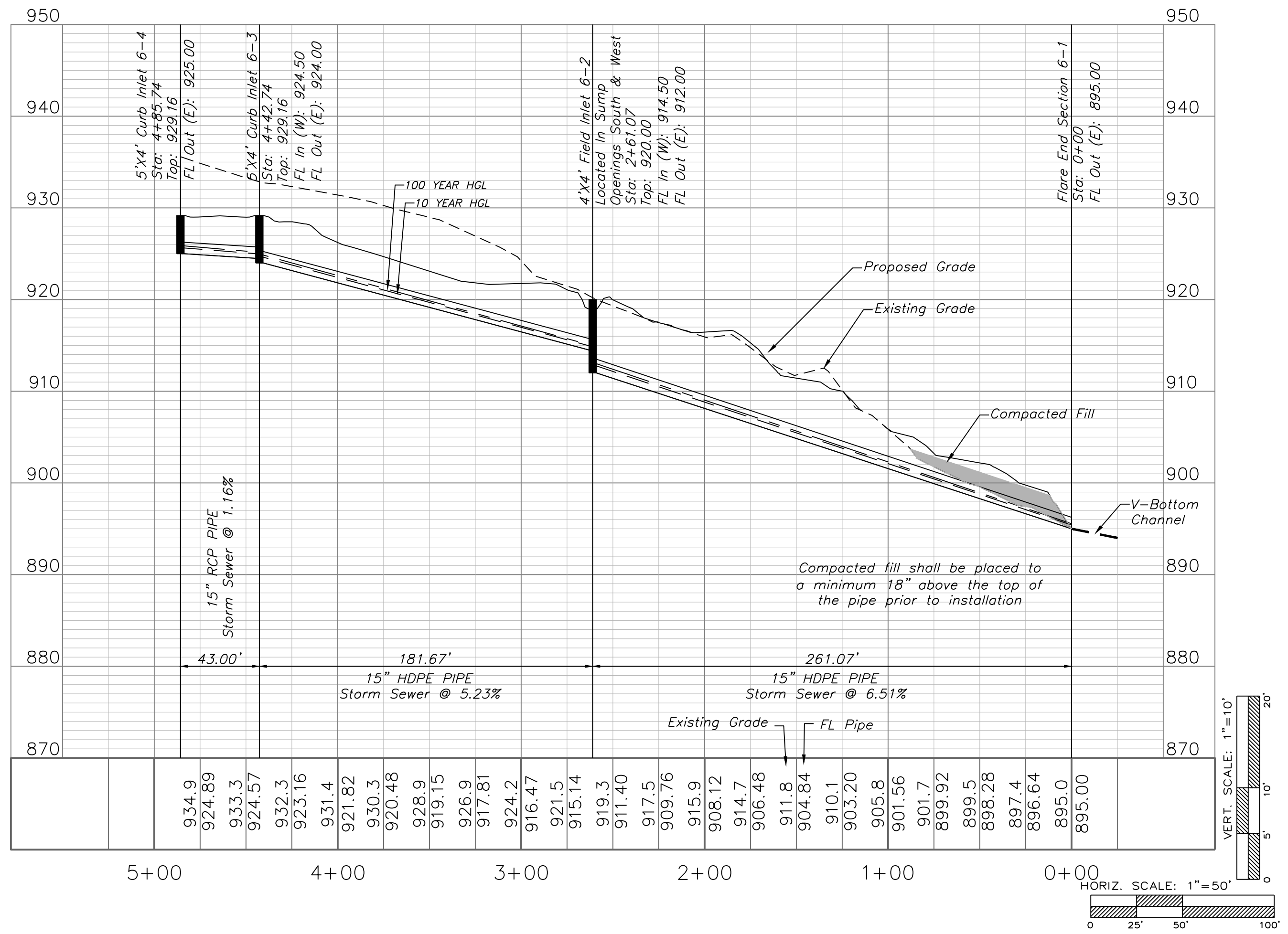
STORM LINE 5



STORM SEWER PLAN & PROFILE
SCALE: 1" = 50'



STORM LINE 6

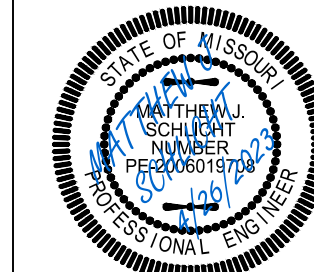


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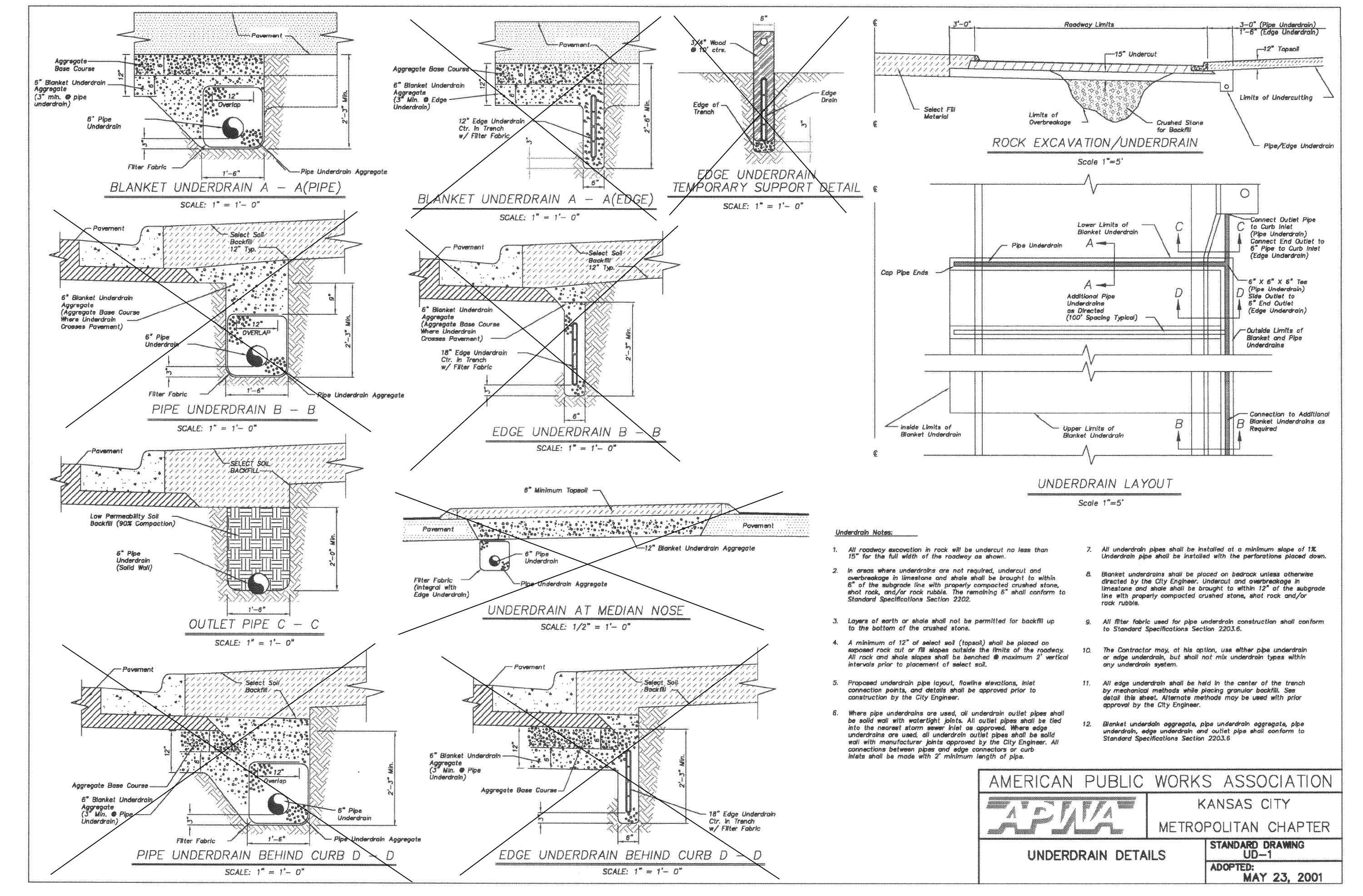
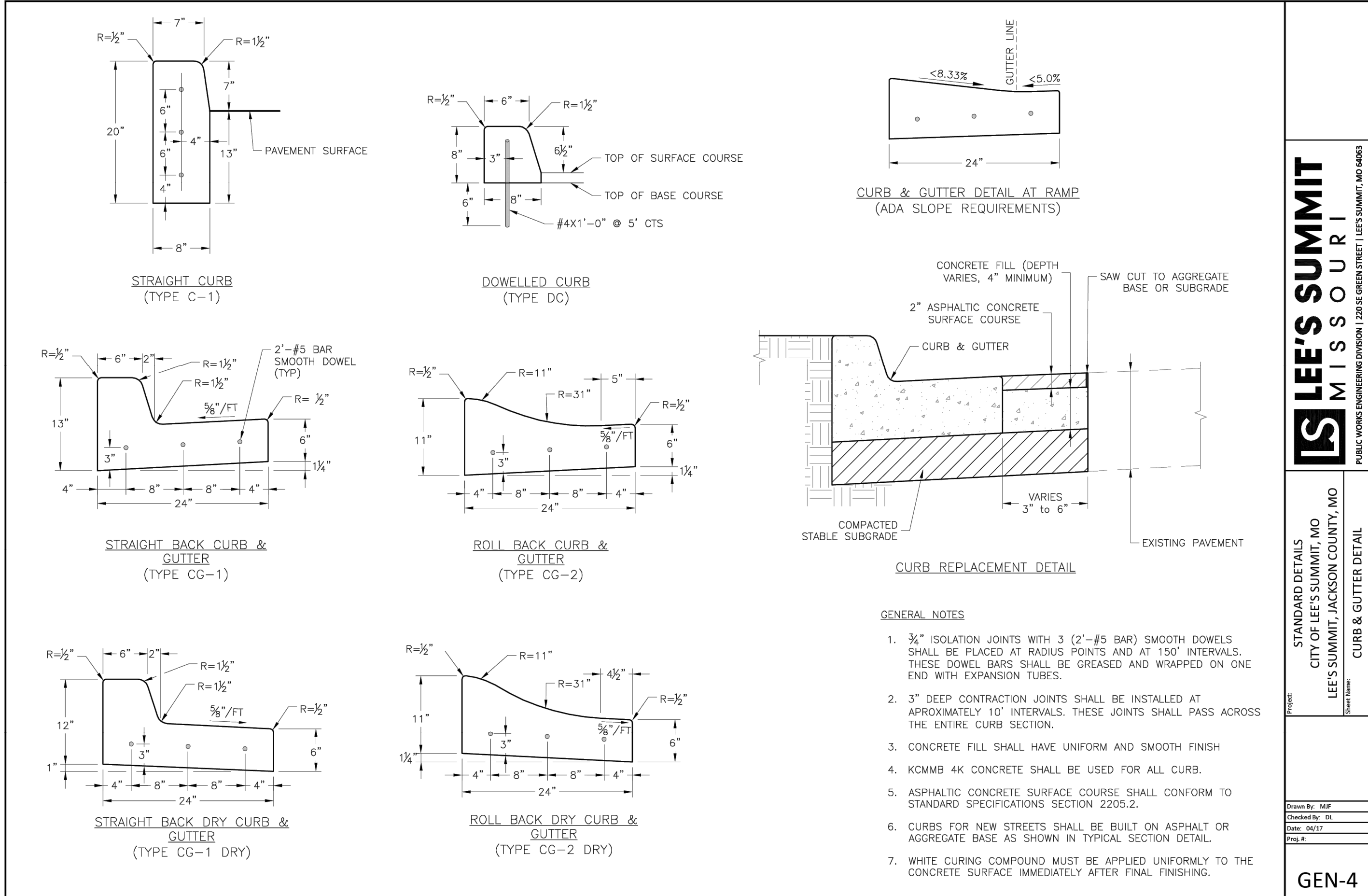
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10-YR STRUCTURE																							
D.S. Str.	Str. No.	Area (ac)	InletTime (min)	Int. (in/hr)	RunoffCoeff. (C)	Q=CIA (cfs)	Q Carry-over (cfs)	QCaptured (cfs)	QBypassed (cfs)	JunctType	CurbHeight (in)	CurbLength (ft)	GutterSlope (ft/ft)	GutterWidth (ft)	CrossSlope, Sw (ft/ft)	CrossSlope, Sx (ft/ft)	LocalDepr. (in)	InletDepth (ft)	BypassDepth (ft)	BypassSpread (ft)	GutterDepth (ft)	GutterSpread (ft)	Bypass Str.
1-1	1-2	0	0	0	0	0	0	0	0	MH	0	0	0	0	0	0	0	0	0	0	0	0	0
1-2	1-3	0.21	5.8	7.11	0.66	0.99	0.2	1.19	0	Curb	3.8	5	Sag	2	0.05	0.02	9	0.96	n/a	n/a	0.21	7.66	Sag
1-3	1-4R	0.68	6.6	6.9	0.66	3.09	0.83	3.92	0	Curb	3.8	5	Sag	2	0.05	0.02	9	1.15	n/a	n/a	0.4	16.99	Sag
1-4R	1-4L	0.24	5.4	7.23	0.66	1.14	0.81	1.95	0	Curb	3.8	5	Sag	2	0.05	0.02	9	1.02	n/a	n/a	0.27	10.67	Sag
1-3	2-1	0.17	6.4	6.95	0.66	0.78	0	0.78	0	Curb	3.8	5	0.015	2	0.05	0.02	9	0.9	0	0	0.15	4.69	1-3
2-1	2-2	0.73	5.8	7.11	0.66	3.43	0	2.62	0.81	Curb	3.8	5	0.015	2	0.05	0.02	9	1	0.16	4.78	0.25	9.29	1-4L
1-2	3-1	0.22	5.7	7.14	0.66	1.04	1.05	1.88	0.2	Curb	3.8	5	0.017	2	0.05	0.02	9	0.96	0.09	1.87	0.21	7.3	1-3
3-1	3-2	0.72	5.8	7.11	0.66	3.38	0	2.55	0.83	Curb	3.8	5	0.017	2	0.05	0.02	9	0.99	0.15	4.68	0.24	8.99	1-4R
3-2	3-3	0.31	5.6	7.17	0.66	1.47	1.55	1.97	1.05	Curb	3.8	5	0.062	2	0.05	0.02	9	0.94	0.13	3.71	0.19	6.44	3-1
3-3	3-4	0.79	6.7	6.87	0.66	3.58	0.04	2.08	1.55	Curb	3.8	5	0.08	2	0.05	0.02	9	0.94	0.15	4.32	0.19	6.61	3-3
3-2	4-1	0.15	5	7.34	0.66	0.73	0	0.73	0	Dp-Curb	6	12	Sag	0.02	0.02	0.02	0.07	n/a	n/a	0.07	3.7	Sag	
4-1	4-2	0.09	5.1	7.31	0.66	0.43	0	0.43	0	Dp-Curb	6	12	Sag	0.02	0.02	0.02	0.05	n/a	n/a	0.05	2.63	Sag	
4-2	4-3	0.32	5.8	7.11	0.66	1.5	0	1.46	0.04	Curb	3.8	5	0.019	2	0.05	0.02	9	0.93	0.05	1.02	0.18	6.13	3-4
4-3	4-4	1.38	7.1	6.77	0.66	6.16	0	3.46	2.71	Curb	3.8	5	0.019	2	0.05	0.02	9	1.04	0.22	7.99	0.29	11.26	4-5
4-4	4-5	0.2	6.8	6.84	0.66	0.9	2.71	2.44	1.17	Curb	3.8	5	0.015	2	0.02	0.02	9	0.95	0.13	6.57	0.2	10.01	6-4
4-5	4-6	0.76	5.6	7.17	0.66	3.6	0	3.6	0	Dp-Curb	6	16	Sag	0.02	0.02	0.02	0.18	n/a	n/a	0.18	8.88	Sag	
4-2	5-1	0.29	5.3	7.26	0.66	1.39	0	1.39	0	Dp-Curb	6	12	Sag	0.02	0.02	0.02	0.11	n/a	n/a	0.11	5.7	Sag	
5-1	5-2	0.23	5.1	7.31	0.66	1.11	0	1.11	0	Dp-Curb	6	12	Sag	0.02	0.02	0.02	0.1	n/a	n/a	0.1	4.91	Sag	
6-1	6-2	0.38	7.2	6.74	0.66	1.69	0	1.69	0	Dp-Curb	6	8	Sag	0.02	0.02	0.02	0.17	n/a	n/a	0.17	8.52	Sag	
6-2	6-3	0.13	7.2	6.74	0.66	0.58	0	0.58	0	Curb	3.8	5	0.038	2	0.05	0.02	9	0.87	0	0	0.12	2.94	Offsite
6-3	6-4	0.61	7.2	6.74	0.66	2.71	1.17	2.44	1.45	Curb	3.8	5	0.038	2	0.05	0.02	9	0.97	0.16	5.08	0.22	8.04	Offsite

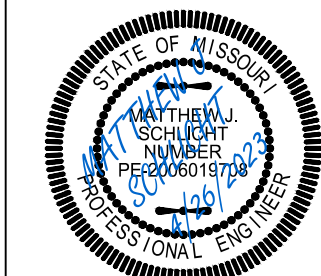
10-YR PIPE																						
D.S. Str.	U.S. Str.	LineLength (ft)	Incr.Area (ac)	TotalArea (ac)	RunoffCoeff. (C)	IncrC x A	TotalC x A	InletTime (min)	TimeConc (min)	RnfallInt (in/hr)	TotalRunoff (cfs)	TotalFlow (cfs)	CapacFull (cfs)	Veloc (ft/s)	PipeSize (in)	PipeSlope (%)	Inv ElevDn (ft)	Inv ElevUp (ft)	HGLDn (ft)	HGLUp (ft)	Grnd/RimDn (ft)	Grnd/RimUp (ft)
1-1	1-2	173.94	0	7.49	0	0	4.94	0	8.1	6.5	32.26	32.26	140.04	15.55	30	6.90	886.50	898.50	887.32	900.43	0.00	908.00
1-2	1-3	50.27	0.21	2.03	0.66	0.14	1.34	5.8	6.7	6.9	9.2	9.2	31.93	10.91	18	5.47	900.50	903.25	901.05	904.42	908.00	908.47
1-3	1-4R	36.85	0.68	0.92	0.66	0.45	0.61	6.6	6.6	6.9	4.19	4.19	6.91	5.38	15	0.68	904.00	904.25	904.70	905.08	908.47	908.48
1-4R	1-4L	1	0.24	0.24	0.66	0.16	0.16	5.4	5.4	7.2	1.14	1.14	59.36	2.24	15	50.00	904.25	904.75	905.08	905.17	908.48	908.48
1-3	2-1	84.05	0.17	0.9	0.66	0.11	0.59	6.4	6.4	6.9	4.13	4.13	6.47	5.21	15	0.59	903.75	904.25	904.48	905.07	908.47	909.13
2-1	2-2	34.97	0.73	0.73	0.66	0.48	0.48	5.8	5.8	7.1	3.43	3.43	7.1	5.11	15	0.71	904.75	905.00	905.36	905.75	909.13	909.13
1-2	3-1	83.98	0.22	5.46	0.66	0.15	3.6	5.7	7.9	6.6	23.67	23.67	58.18	7.5	30	1.19	899.00	900.00	900.43	901.66	908.00	909.70
3-1	3-2	68.55	0.72	5.24	0.66	0.48	3.46	5.8	7.8	6.6	22.82	22.82	30.76	9.37	24	1.09	900.75	901.50	902.03	903.20	909.70	910.49
3-2	3-3	132.24	0.31	1.1	0.66	0.2	0.73	5.6	6.8	6.8	4.97	4.97	21.28	5.1	15	6.43	902.25	910.75	903.20	911.65	910.49	914.81
3-3	3-4	40.46	0.79	0.79	0.66	0.52	0.52	6.7	6.7	6.9	3.58	3.58	19.8	7.51	15	5.56	911.25	913.50	911.65	914.26	914.81	915.87
3-2	4-1	132.52	0.15	3.42	0.66	0.1	2.26	5	7.5	6.7	15.06	15.06	67.58	7.04	24	5.28	902.00	909.00	903.20	910.40	910.49	923.00
4-1	4-2	21.92	0.09	3.27	0.66	0.06	2.16	5.1	7.4	6.7	14.42	14.42	108.78	8.43	24	13.69	909.50	912.50	910.40	913.87	923.00	923.00
4-2	4-3	133.44	0.32	2.66	0.66	0.21	1.76	5.8	7.2	6.7	11.84	11.84	44.22	9.21	18	10.49	913.00	927.00	913.87	928.31	923.00	935.06
4-3	4-4	43.26	1.38	2.34	0.66	0.91	1.54	7.1	7.1	6.8	10.45	10.45	17.37	7.08	18	1.62	927.20	927.90	928.31	929.14	935.06	935.03
4-4	4-5	75.5	0.2	0.96	0.66	0.13	0.63	6.8	6.8	6.8	4.34	4.34	9.66	5.32	15	1.32	928.40	929.40	929.14	930.24	935.03	933.82
4-5	4-6	118.44	0.76	0.76	0.66	0.5	0.5	5.6	5.6	7.2	3.6	3.6	8.96	5.73	15	1.14	929.90	931.25	930.45	932.02	933.82	935.00
4-2	5-1	98.09	0.29	0.52	0.66	0.19	0.34	5.3	5.5	7.2	2.47	2.47	10.38	3.35	15	1.53	913.00	914.50	913.87	915.13	923.00	920.40
5-1	5-2	100.77	0.23	0.23	0.66	0.15	0.15	5.1	5.1	7.3	1.11	1.11	8.36	3.92	15	0.99	915.00	916.00	915.31	916.41	920.40	922.00
6-1	6-2	261.07	0.38	1.12	0.66	0.25	0.74	7.2	7.7	6.6	4.89	4.89	21.42	9.67	15	6.51	895.00	912.00	895.41	912.90	0.00	920.00
6-2	6-3	181.67	0.13	0.74	0.66	0.09	0.49	7.2	7.3	6.7	3.28	3.28	19.2	8.04	15	5.23	914.50	924.00	914.85	924.73	920.00	929.16
6-3	6-4	43	0.61	0.61	0.66	0.4	0.4	7.2	7.2	6.7	2.71	2.71	9.05	5.28	15	1.16	924.50	925.00	924.97	925.66	929.16	929.16

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.
1-1	1-2	0	0	0	0	0	0	0	0	MH	0	0	0	0	0	0	0	0	0	0	0	0	0
1-2	1-3	0.21	5.8	12.52	0.66	1.74	2.16	3.9	0	Curb	3.8	5	Sag	2	0.05	0.02	9	1.15	n/a	n/a	0.4	16.92	Sag
1-3	1-4R	0.68	6.6	12.17	0.66	5.46	2.49	7.95	0	Curb	3.8	5	Sag	2	0.05	0.02	9	1.35	n/a	n/a	0.6	27.23	Sag
1-4R	1-4L	0.24	5.4	12.71	0.66	2.01	2.48	4.49	0	Curb	3.8	5	Sag	2	0.05	0.02	9	1.18	n/a	n/a	0.43	18.6	Sag
1-3	2-1	0.17	6.4	12.26	0.66	1.38	0	1.37	0	Curb	3.8	5	0.015	2	0.05	0.02	9	0.93	0.02	0.47	0.18	6.22	1-3
2-1	2-2	0.73	5.8	12.52	0.66	6.03	0	3.55	2.48	Curb	3.8	5	0.015	2	0.05	0.02	9	1.04	0.22	8.09	0.29	11.7	1-4L
1-2	3-1	0.22	5.7	12.57	0.66	1.82	3.65	3.31	2.16	Curb	3.8	5	0.017	2	0.05	0.02	9	1.03	0.21	7.41	0.28	10.97	1-3
3-1	3-2	0.72	5.8	12.52	0.66	5.95	0	3.46	2.49	Curb	3.8	5	0.017	2	0.05	0.02	9	1.04	0.22	7.89	0.29	11.35	1-4R
3-2	3-3	0.31	5.6	12.61	0.66	2.58	3.97	2.91	3.65	Curb	3.8	5	0.062	2	0.05	0.02	9	0.99	0.2	7.02	0.24	9.05	3-1
3-3	3-4	0.79	6.7	12.13	0.66	6.32	0.47	2.82	3.97	Curb	3.8	5	0.08	2	0.05	0.02	9	0.98	0.2	6.89	0.23	8.71	3-3
3-2	4-1	0.15	5	12.9	0.66	1.28	0	1.28	0	Dp-Curb	6	12	Sag	0.02	0.02	0.02	0.11	n/a	n/a	0.11	5.39	Sag	
4-1	4-2	0.09	5.1	12.85	0.66	0.76	0	0.76	0	Dp-Curb	6	12	Sag	0.02	0.02	0.02	0.08	n/a	n/a	0.08	3.82	Sag	
4-2	4-3	0.32	5.8	12.52	0.66	2.64	0	2.17	0.47	Curb	3.8	5	0.019	2	0.05	0.02	9	0.97	0.13	3.25	0.22	7.91	3-4
4-3	4-4	1.38	7.1	11.96	0.66	10.89	0	4.53	6.36	Curb	3.8	5	0.019	2	0.05	0.02	9	1.09	0.29	11.4	0.34	14.13	4-5
4-4	4-5	0.2	6.8	12.08	0.66	1.6	6.36	3.68	4.27	Curb	3.8	5	0.015	2	0.02	0.02	9	1.02	0.21	10.66	0.27	13.46	6-4
4-5	4-6	0.76	5.6	12.61	0.66	6.33	0	6.33	0	Dp-Curb	6	16	Sag	0.02	0.02	0.02	0.26	n/a	n/a	0.26	12.94	Sag	
4-2	5-1	0.29	5.3	12.75	0.66	2.44	0	2.44	0	Dp-Curb	6	12	Sag	0.02	0.02	0.02	0.17	n/a	n/a	0.17	8.31	Sag	
5-1	5-2	0.23	5.1	12.85	0.66	1.95	0	1.95	0	Dp-Curb	6	12	Sag	0.02	0.02	0.02	0.14	n/a	n/a	0.14	7.15	Sag	
6-1	6-2	0.38	7.2	11.92	0.66	2.99	0	2.99	0	Dp-Curb	6	8	Sag	0.02	0.02	0.02	0.25	n/a	n/a	0.25	12.46	Sag	
6-2	6-3	0.13	7.2	11.92	0.66	1.02	0	1.01	0.01	Curb	3.8	5	0.038	2	0.05	0.02	9	0.89	0.03	0.55	0.14	4.22	Offsite
6-3	6-4	0.61	7.2	11.92	0.66	4.8	4.27	3.69	5.39	Curb	3.8	5	0.038	2	0.05	0.02	9	1.04	0.24	9.24	0.29	11.44	Offsite



GENERAL NOTE:

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



Matthew J. Schlicht

MO PE 2006019708

KS PE 19071

OK PE 25226

NE PE E-14335

REVISIONS	
REV. 8/12/2022	
REV. 10/3/2022	
REV. 4/26/2023	

