

RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department
Lee's Summit, Missouri

10/30/2025
Digitally signed by Gene Williams
DN: cn=Gene Williams, ou=Development, ou=LS
V, email=DC=LS, DC=LS
Date: 2025.10.30 13:30:54-0500

Gene Williams

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STREET LIGHT PLANS
SIGNAL PLANS

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.

ENGINEERING SOLUTIONS

—ENGINEERING & SURVEYING—

Professional Registration

Missouri
 Engineering 2005002186-D
 Surveying 2005008319-D
 Kansas
 Engineering E-1695
 Surveying LS-216
 Oklahoma
 Engineering 6254
 Nebraska
 Engineering CA2821

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

Project: STREET & STORM COVER SHEET

Client: LEES SUMMIT MARKETPLACE, LSMO

Issue Date: November 5, 2024

Street & Storm Cover Sheet

Construction Plans for:

Oldham Village

Lee's Summit, Jackson County, Missouri

Oldham Village

Lee's Summit, Jackson County, Missouri



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

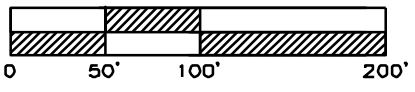
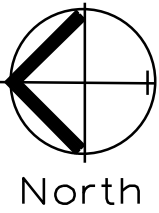
REVISIONS

REV.	DATE	DESCRIPTION
1	12/10/2024	REV. 12/10/2024
2	1/2/2025	REV. 1/2/2025
3	2/6/2025	REV. 2/6/2025
4	3/5/2025	REV. 3/5/2025
5	3/24/2025	REV. 3/24/2025
6	4/15/2025	REV. 4/15/2025
7	10/16/2025	REV. 10/16/2025

C. 001

C.001

CONSTRUCTION ACTIVITY	MAR	APRIL	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
	2025 WORK SCHEDULE												2026 WORK SCHEDULE
1 Demo Existing Buildings													
2 PHA SE 1													
3 PHASE 2													
4 PHASE 3													
5 PHASE 4													
6 PHASE 5													
7 OLDHAM PKWY CLOSURE													
8 OLDHAM PKWY OPEN TO LOCAL TRAFFIC													
9 JEFFERSON STREET CLOSURE													



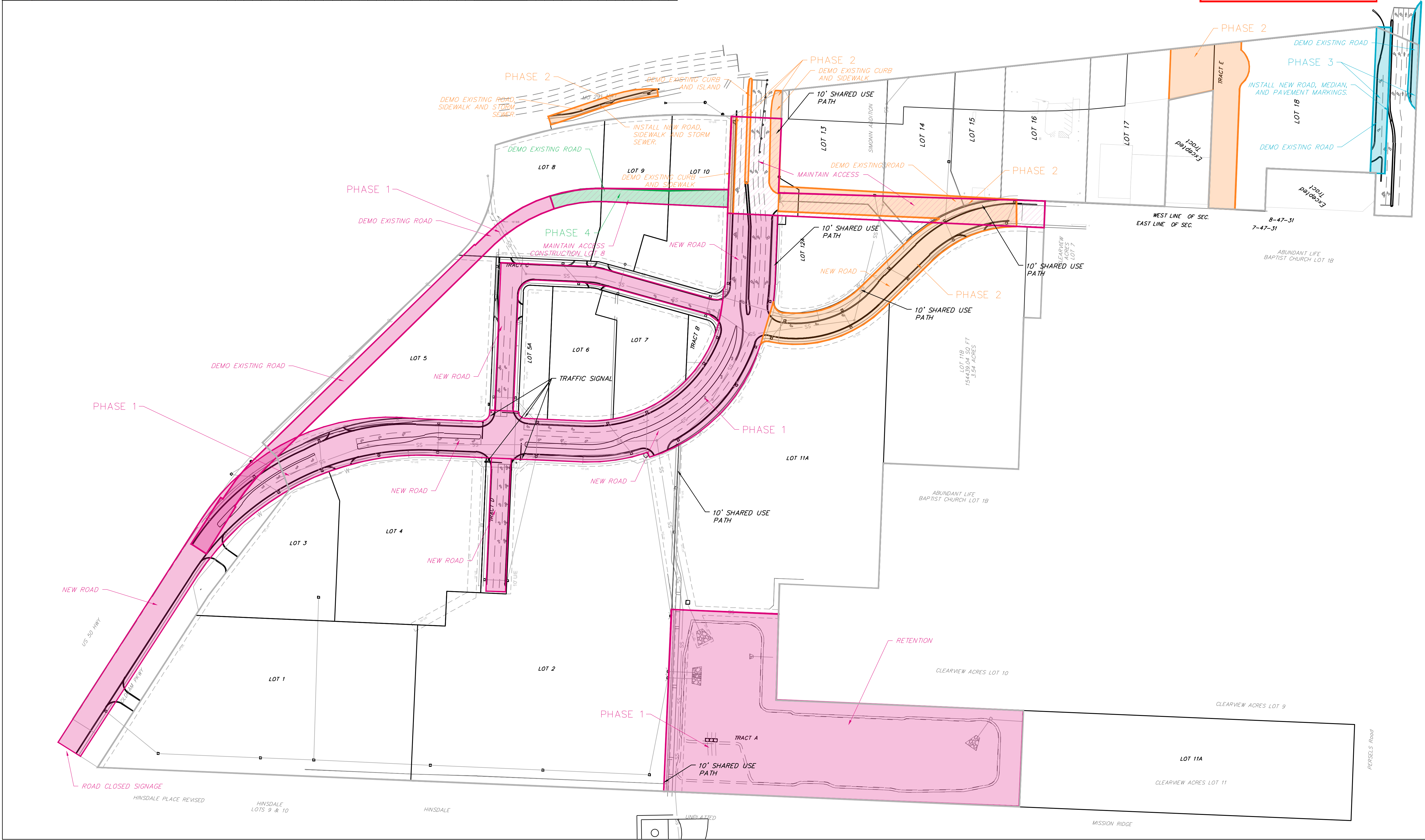
CONSTRUCTION PHASING OVERALL SITE PLAN

SCALE: 1" = 100'

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Development Services Department
Lee's Summit, Missouri

10/30/2025

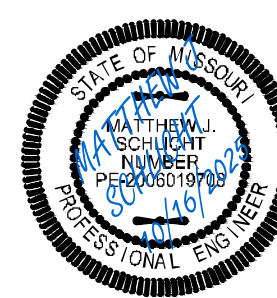


Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

Project: MARKETPLACE, LS MO
Issue Date: November 6, 2024

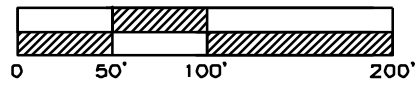
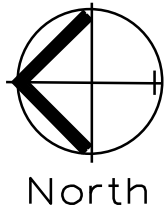
CONSTRUCTION PHASING
OVERALL SITE PLAN
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



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

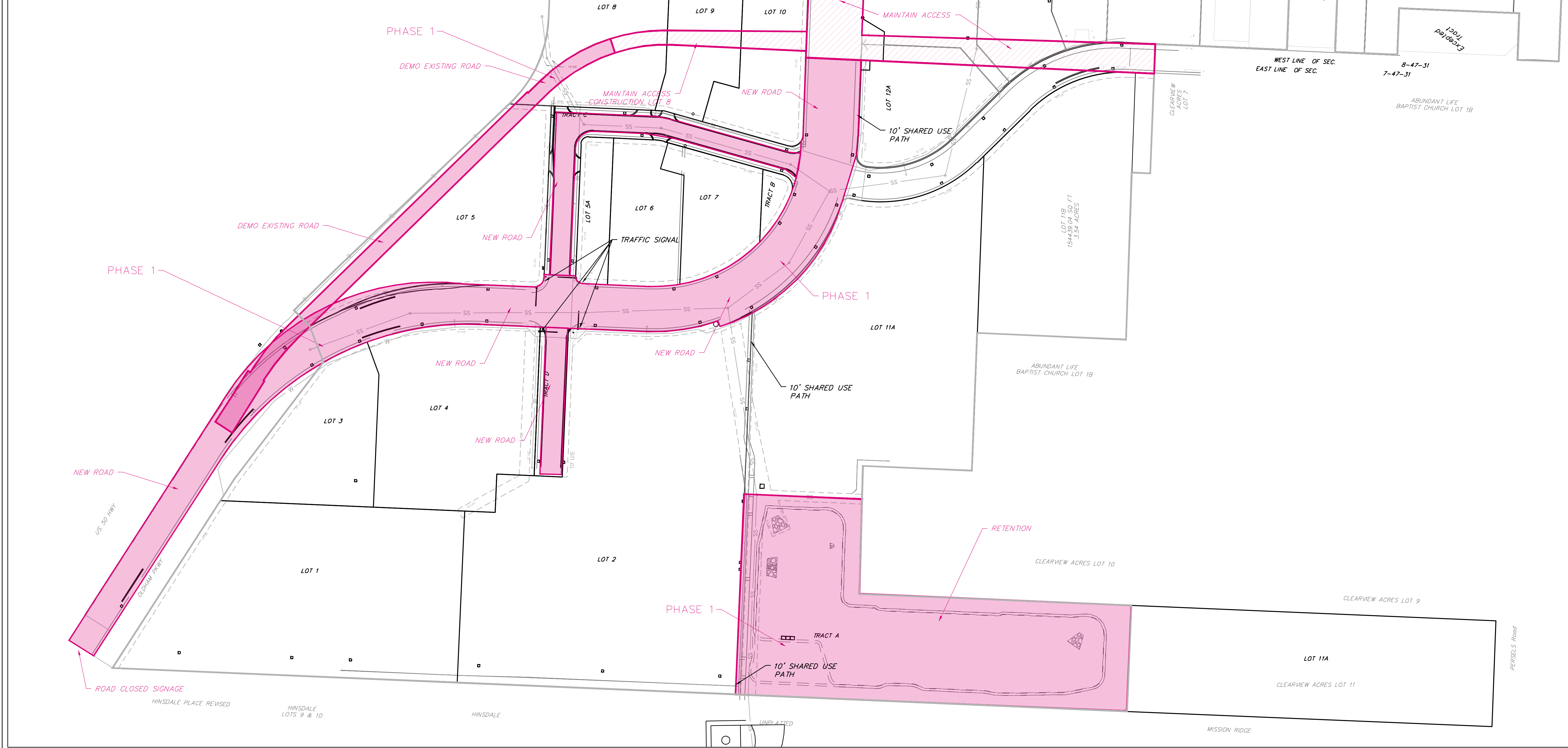
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REV. 3/5/2025	
REV. 3/24/2025	
REV. 4/15/2025	
REV. 10/16/2025	

CONSTRUCTION ACTIVITY		2025 WORK SCHEDULE												2026 WORK SCHEDULE		
		MAR	APRIL	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR		
66	Clearing and Removals															
66	Mass Grading															
70	Retaining Walls															
71	Sanitary Sewer															
72	Storm Sewer															
73	Public															
74	Private															
75	Waterline															
76	Energy Conduit															
77	Order Signal Poles															
78	Cleanup and Prep for Agg base															
78	7.0" Aggregate Base Course W/ Geogrid @ ACC Pavement															
80	2.0' CG-1 Curb & Gutter (Non-Reinforced)															
81	C-1 Vertical Curb (Non-Reinforced)															
82	Backfill C/G/ Trim Agg Base															
83	8.0" PCC Pavement (Commercial Drive/Entrance) (Non-Reinforced) W/4.0" Aggregate Base Course (Streets 2, 3 & 6)															
84	PCC Concrete Median (Colored/ Stamped) (Non-Reinforced) W/4.0" Aggregate Base Course															
85	PCC Raised Median Nose															
86	10.0" Asphalt Pavement															
87	Signs and Stripe															
88	Open New Oldham to Local Traffic															



CONSTRUCTION PHASING PHASE 1
SCALE: 1" = 100'

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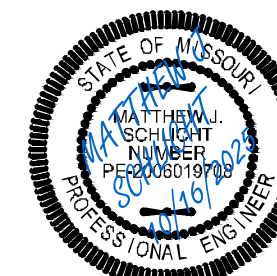


Professional Registration
Missouri
Engineering 2005002186-D
Surveying 200500318-D
Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

Project: MM
MARKETPLACE
LSMO
Issue Date:
November 6, 2024

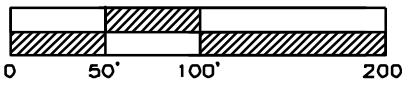
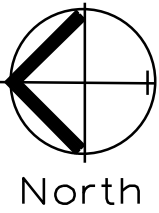
CONSTRUCTION PHASING PHASE 1
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



Matthew J. Schlicht
MO PE 0000019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS
REV. 12/10/2024
REV. 1/2/2025
REV. 2/6/2025
REV. 3/5/2025
REV. 3/24/2025
REV. 4/15/2025
REV. 10/16/2025

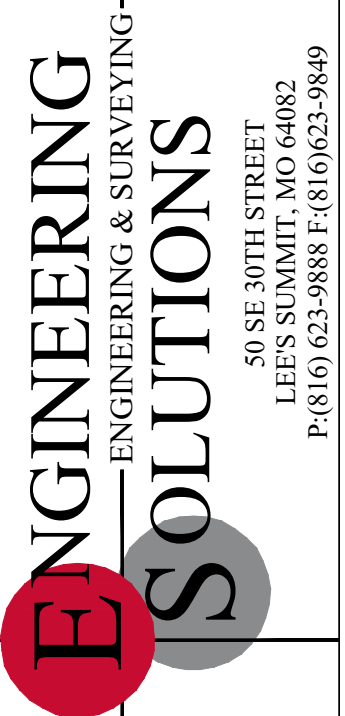
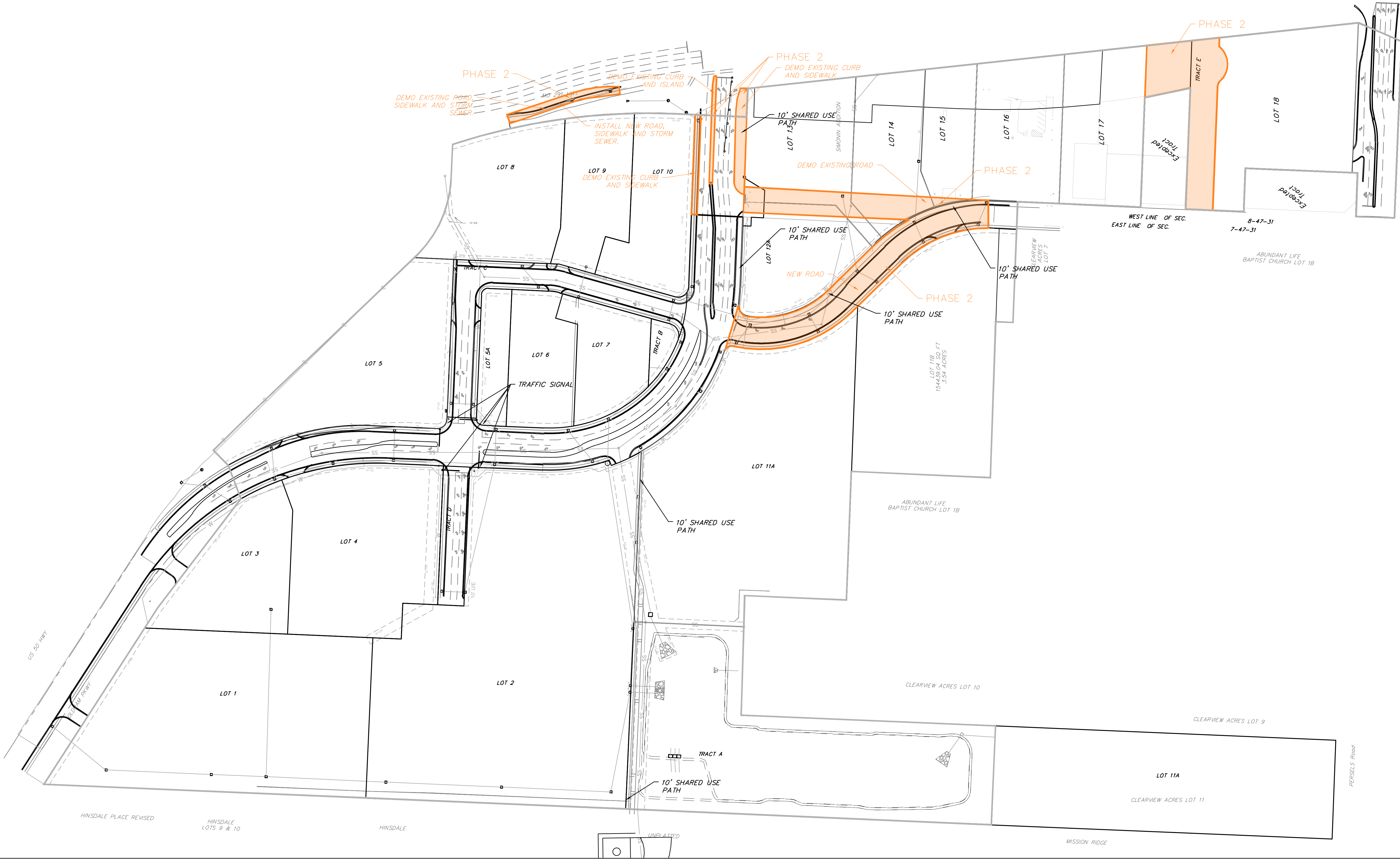
	CONSTRUCTION ACTIVITY	2025 WORK SCHEDULE												2026 WORK SCHEDULE		
		MAR	APRIL	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR		
90	Close E/W Oldham and Jefferson															
91	Complete Jefferson Street Connection															
92	Complete South and Island Improvements on Existing Oldham															
93	Open Relocated Jefferson and E/W Oldham															



CONSTRUCTION PHASING PHASE 2
SCALE: 1" = 100'

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Lee's Summit, Missouri
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Oklahoma
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Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

Project: MM
MARKETPLACE,
LSMO
Issue Date:
November 6, 2024

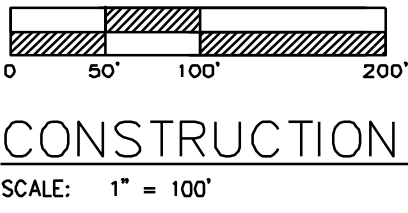
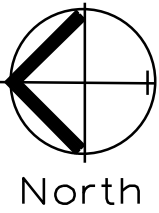
CONSTRUCTION PHASING PHASE 2
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



Matthew J. Schlicht
MO PE 0000019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS	
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REV. 3/24/2025	
REV. 4/15/2025	
REV. 10/16/2025	

	CONSTRUCTION ACTIVITY	2025 WORK SCHEDULE												2026 WORK SCHEDULE		
		MAR	APRIL	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR		
96	Complete Percels Improvements															
96	Complete 291 Improvements															
97	Complete Improvements on North Side of Existing Oldham															

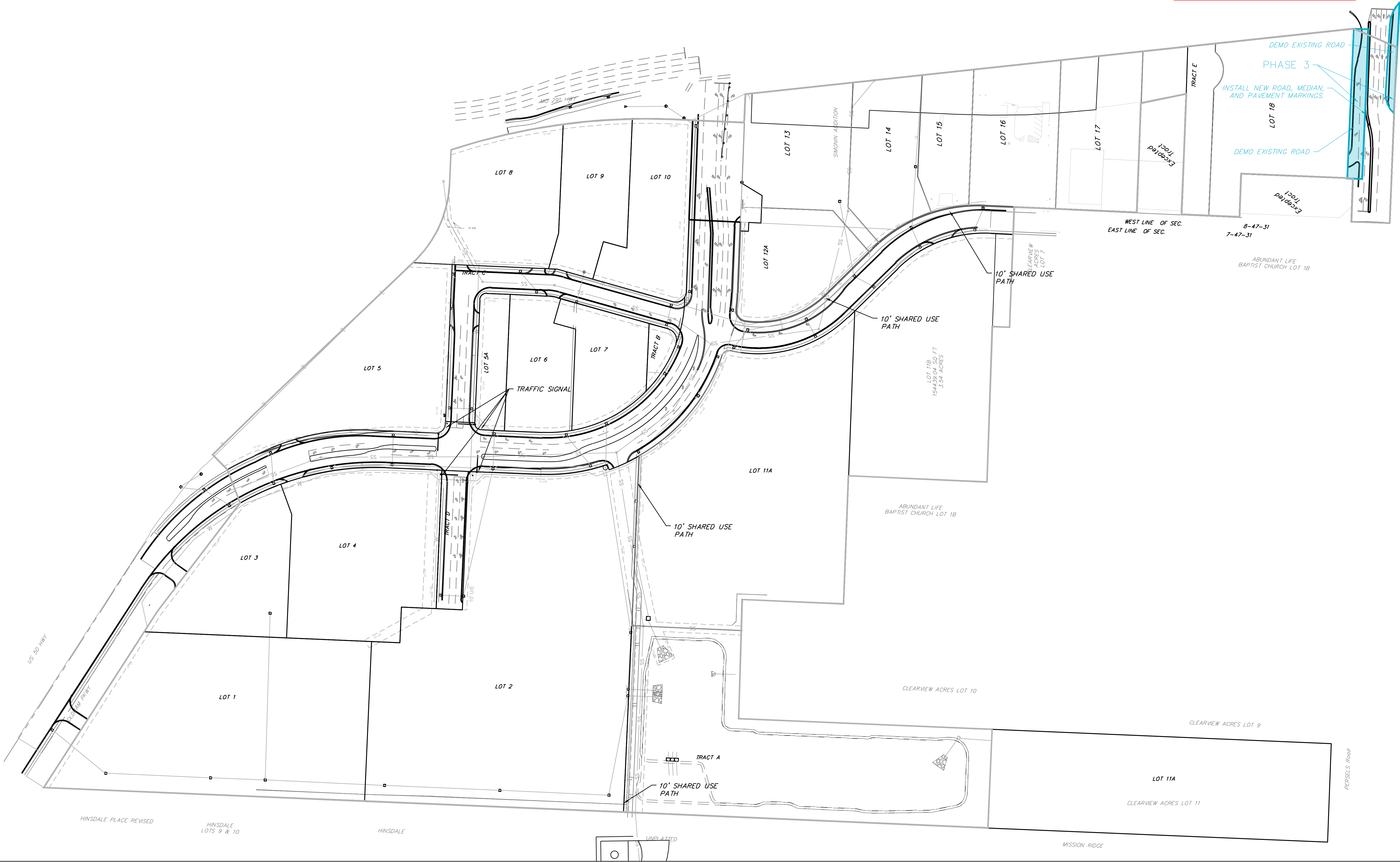


CONSTRUCTION PHASING PHASE 3

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Development Services Department
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10/30/2025

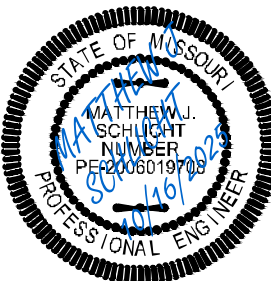


Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

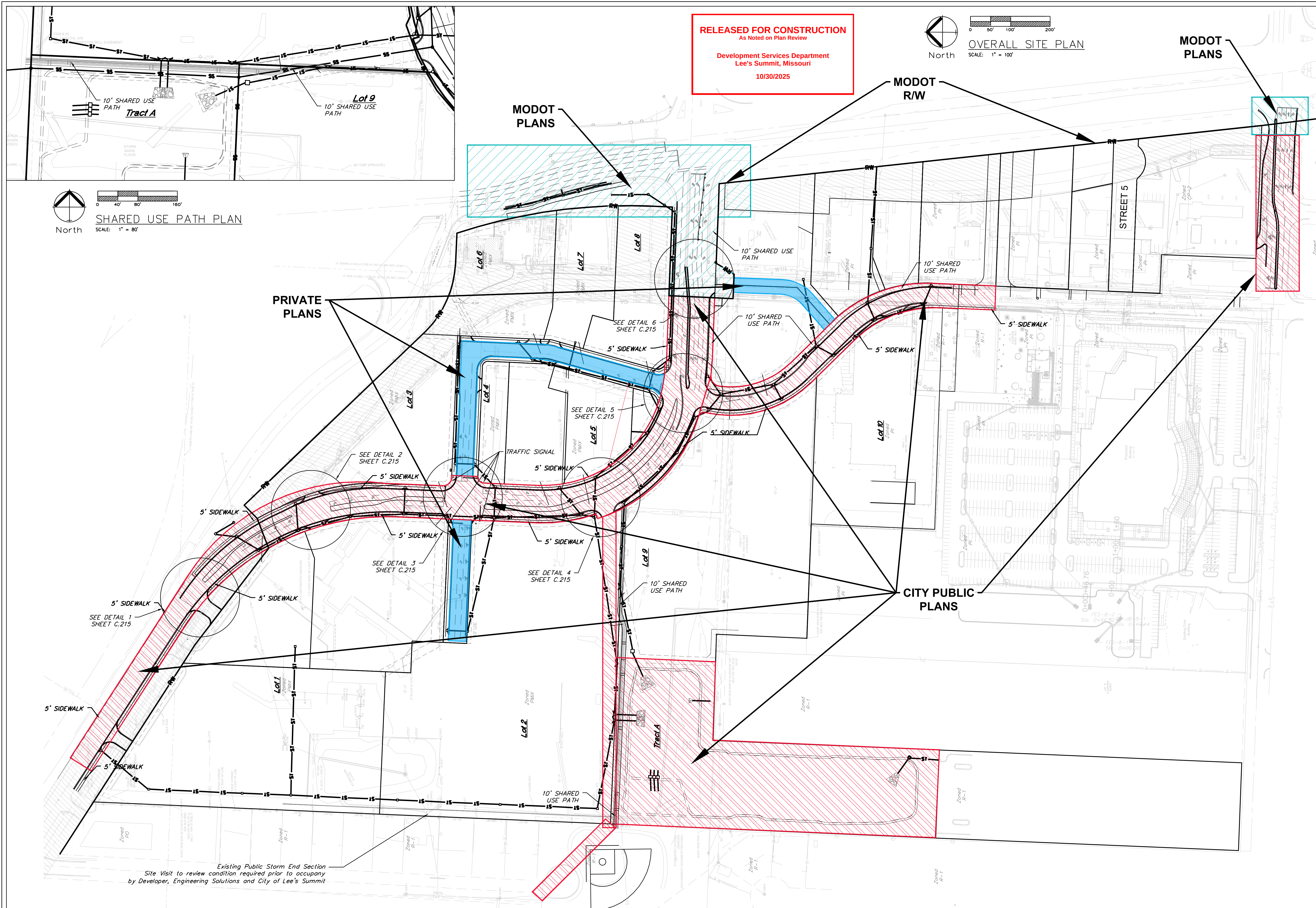
Project:
MATTHEW J. SCHLICHT
LSMO
Issue Date:
November 6, 2024

CONSTRUCTION PHASING PHASE 3
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



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

REVISIONS	
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REV. 3/24/2025	
REV. 4/15/2025	
REV. 10/16/2025	



ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING
50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
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Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Project: MARKETPLACE
LSMO
Issue Date: November 6, 2024

OVERALL SITE PLAN
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri

STATE OF MISSOURI
MATTHEW J. SCHLICHT
REGISTERED PROFESSIONAL ENGINEER
NO. 000019708
EX. 25226
E-14335

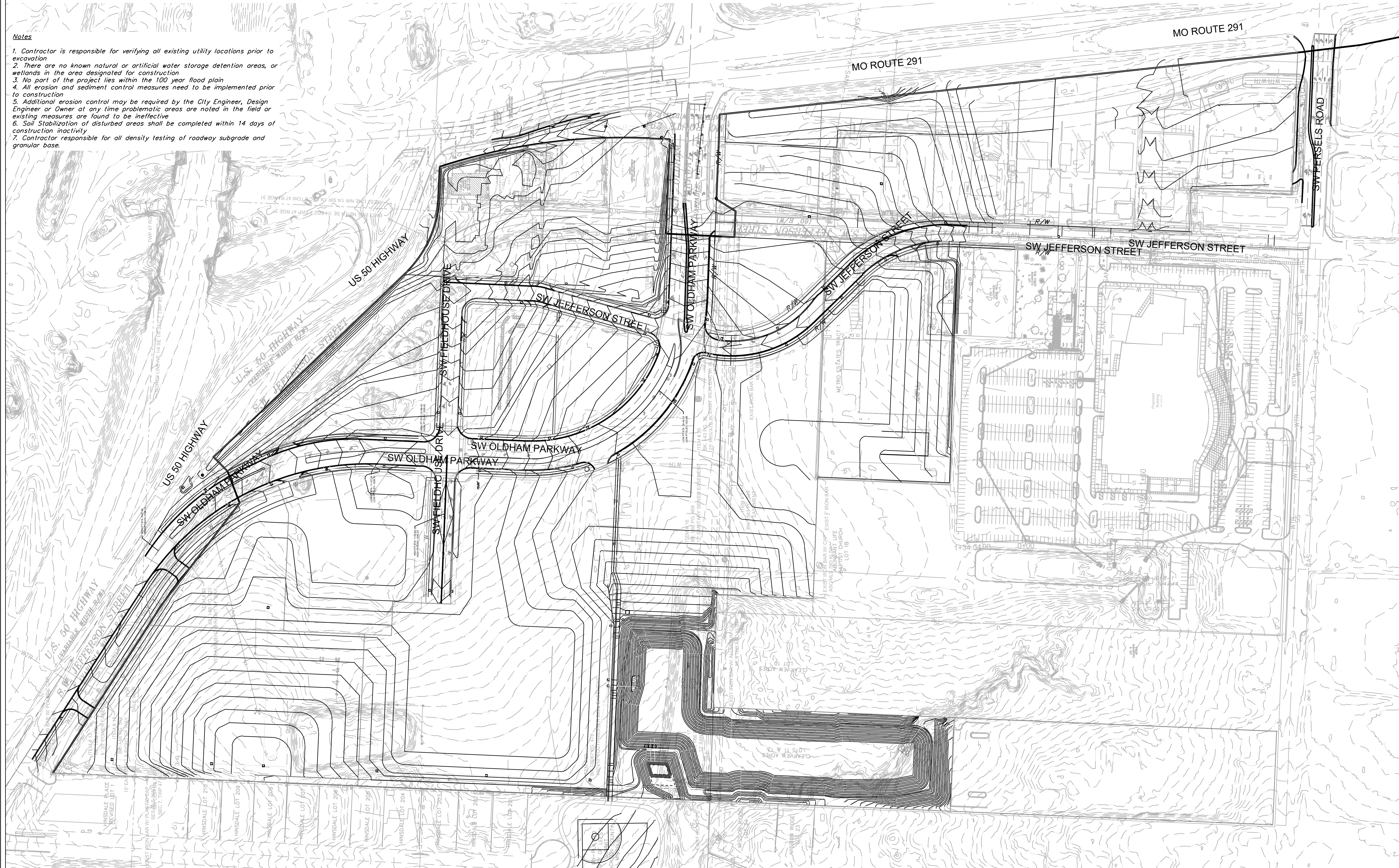
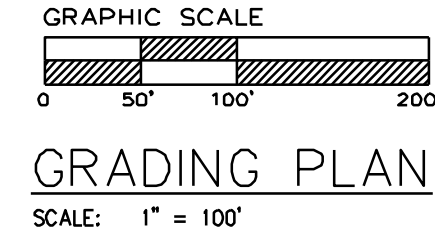
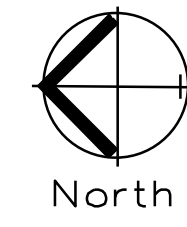
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REV. 2/6/2025
REV. 3/5/2025
REV. 3/24/2025
REV. 4/15/2025
REV. 10/16/2025

C.100

Notes

1. Contractor is responsible for verifying all existing utility locations prior to excavation
2. There are no known natural or artificial water storage detention areas, or wetlands in the area designated for construction
3. No part of the project lies within the 100 year flood plain
4. All erosion and sediment control measures need to be implemented prior to construction
5. 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
6. Soil Stabilization of disturbed areas shall be completed within 14 days of construction inactivity
7. Contractor responsible for all density testing of roadway subgrade and granular base.

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Lee's Summit, Missouri
10/30/2025



Master Drainage Plan 1 of 3:

Grading Plan
Construction Plans for:
Oldham Village

Lee's Summit, Jackson County, Missouri

Project:
Master Drainage Plan
LSMO
Issue Date:
November 6, 2024

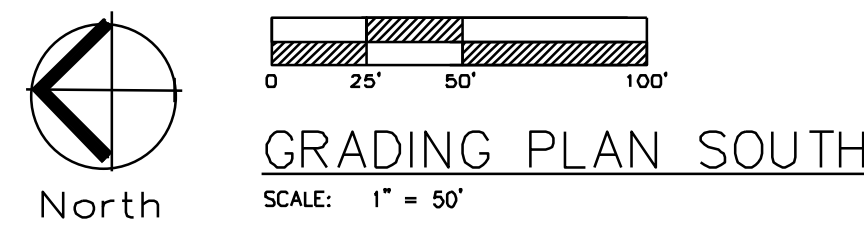
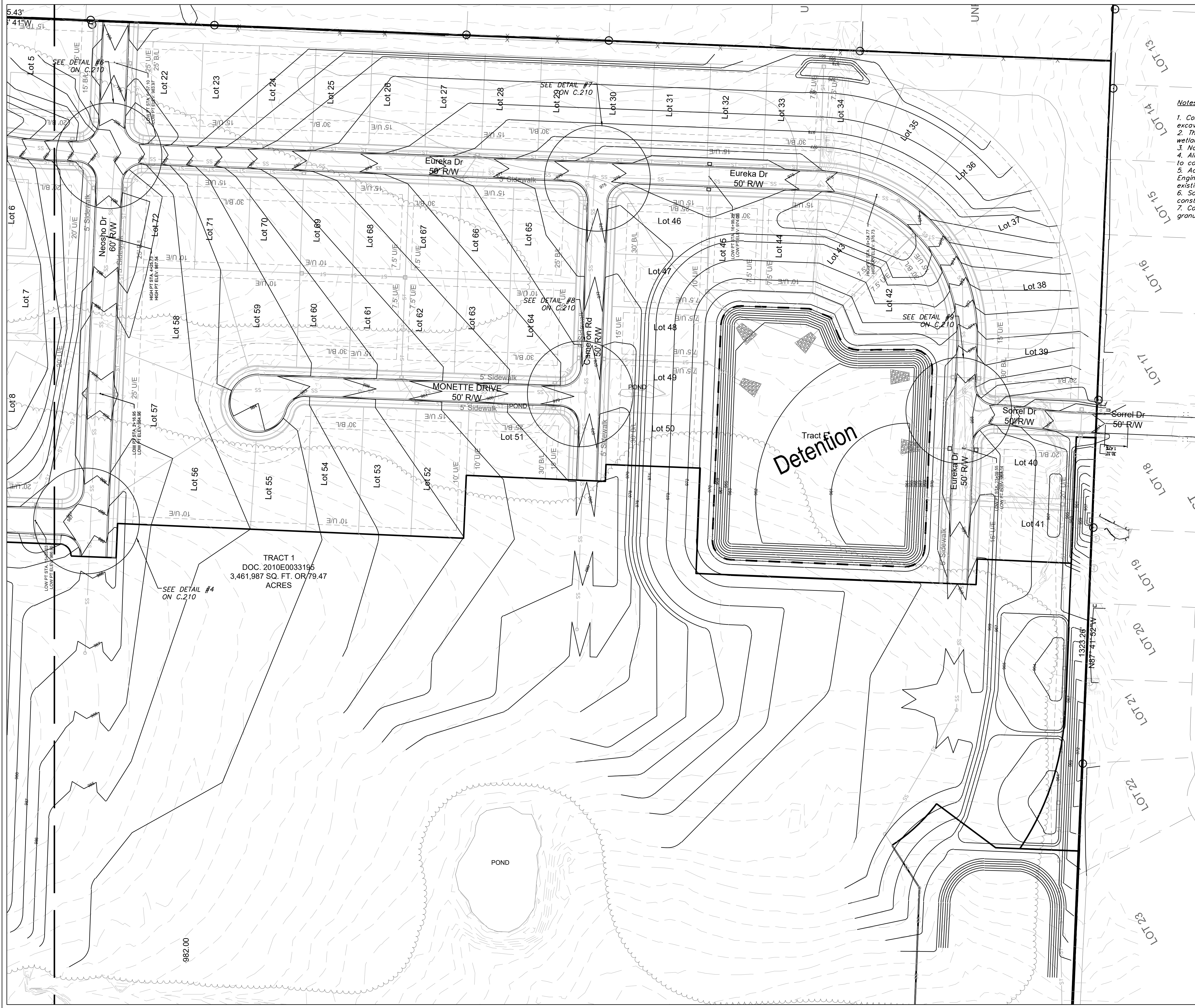
Oldham Village
Lee's Summit, Jackson County, Missouri

Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821



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

REVISIONS
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- Notes**
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Development Services Department
Lee's Summit, Missouri
10/30/2025

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50 SE 30TH STREET
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Professional Registration
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Engineering 2005000185-D
Surveying 2020000185-D
Kansas
Engineering 5-1696
Surveying 15-219
Oklahoma
Engineering 8254
Alabama
Engineering CA2821

Project:
Ovation, LSMO
Issue Date:
July 3, 2025

Grading Plan South
Construction Plans for:
Ovation
Lee's Summit, Jackson County, Missouri

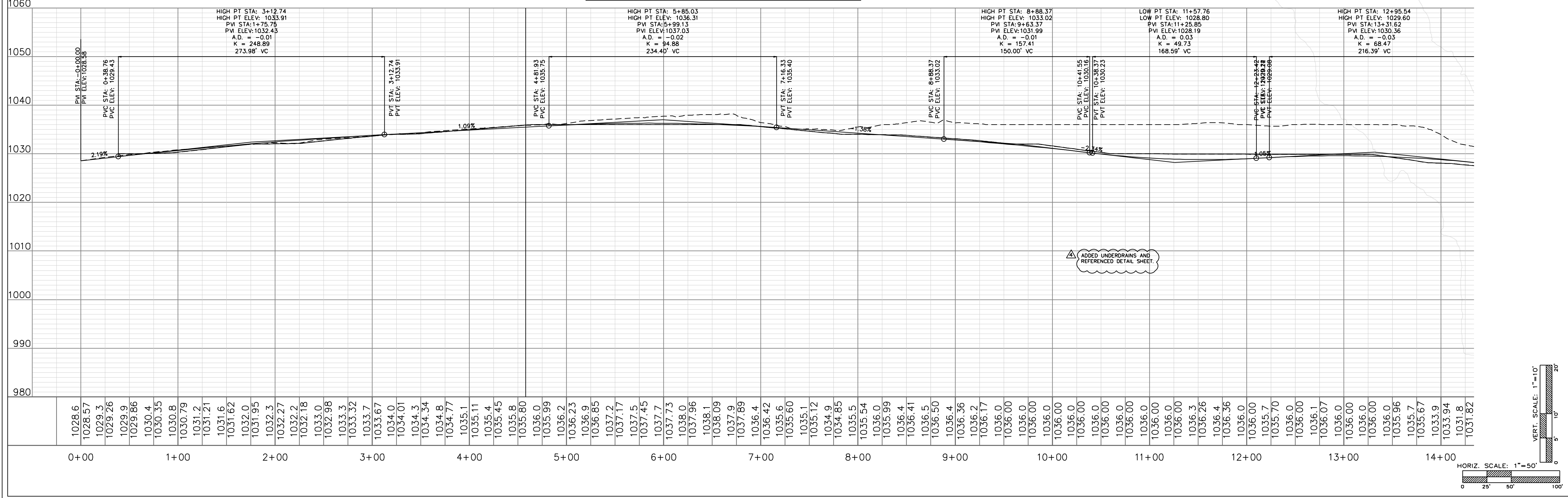
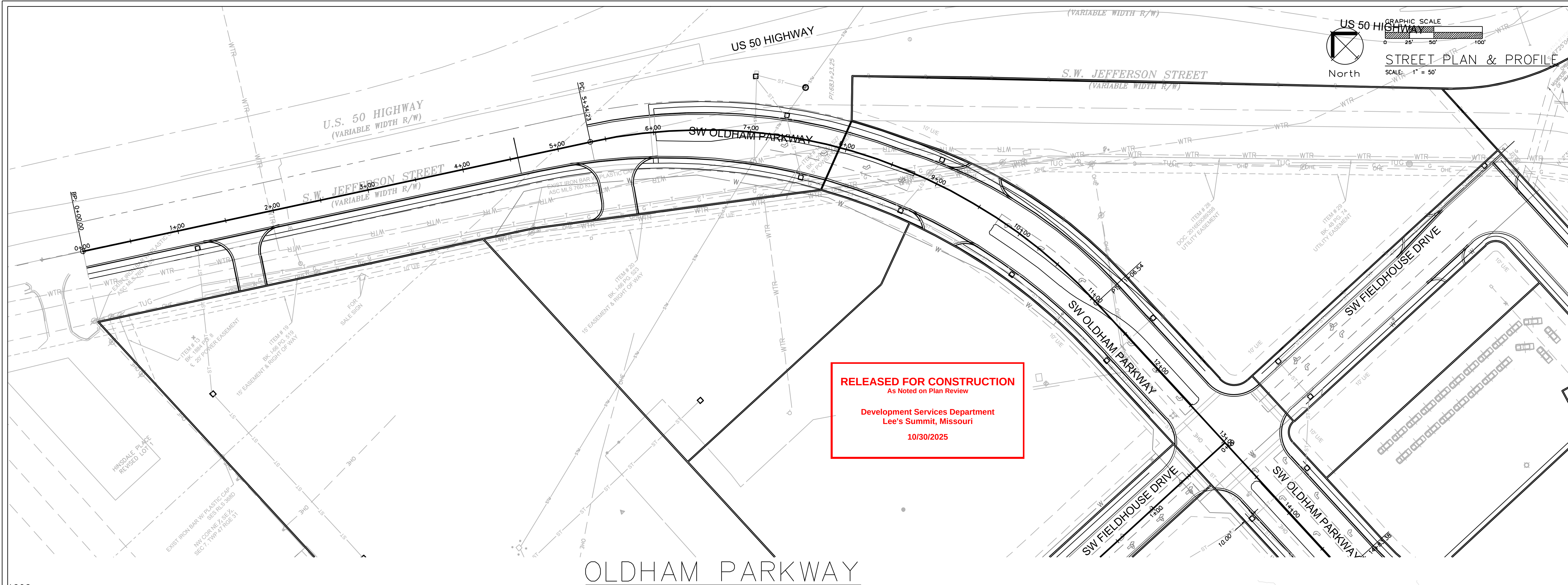
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226

REVISIONS

REV. 9/25/2025	
REV. 10/17/2025	

C.201

Revised plan to show the extent of grading to the west of the plot boundary



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 200502186-D
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Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

Project:
MARKETPLACE,
LSMO

Issue Date:
November 6, 2024

Street Plan and Profile
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri

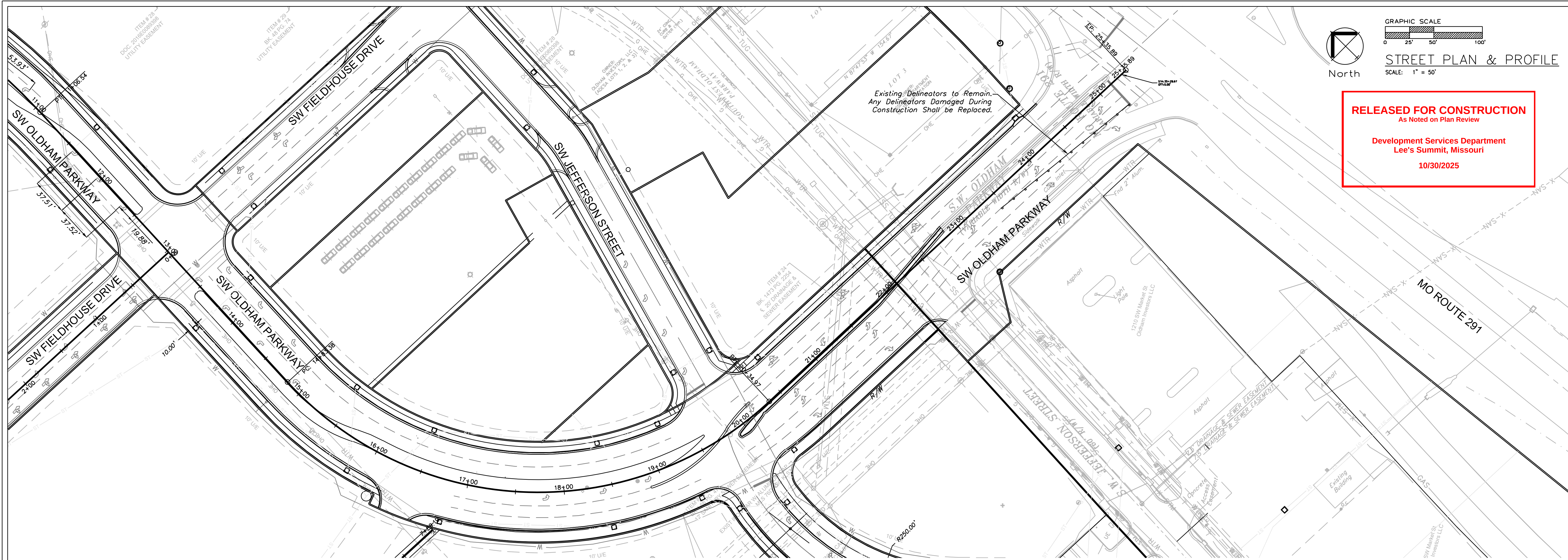
STATE OF MISSOURI
MATTHEW J. SCHLICHT
REGISTERED PROFESSIONAL ENGINEER

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-141335

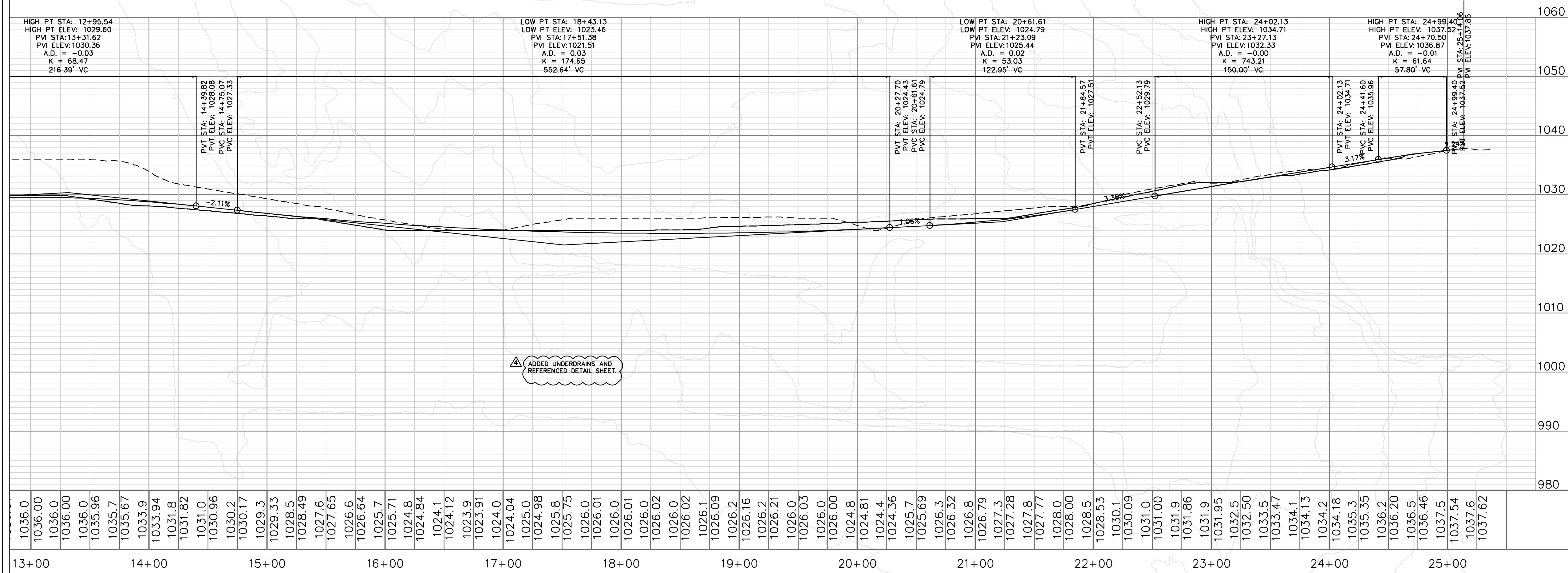
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REV. 4/15/2025
REV. 10/16/2025

C. 202



OLDHAM PARKWAY



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-1695
Surveying LS-216
Oklahoma
Engineering 6284
Nebraska
Engineering CA2821

Project: OLDHAM PARKWAY
LSMO
Issue Date: November 6, 2024

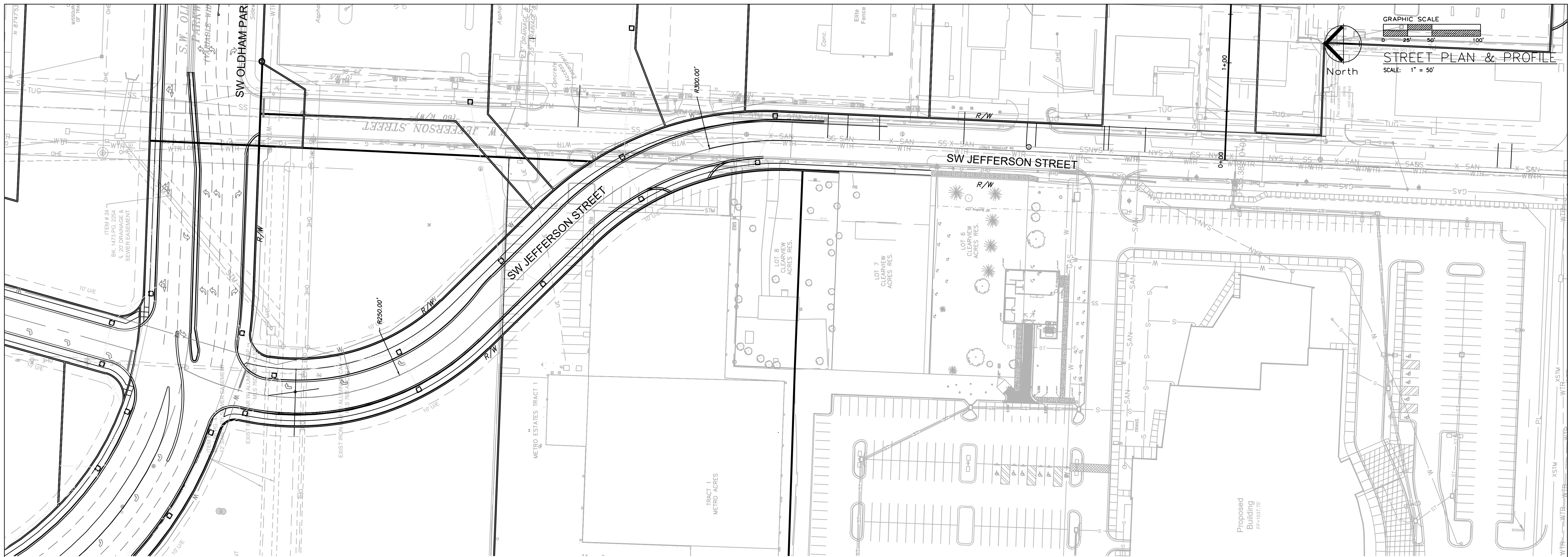
Oldham Village
Lee's Summit, Jackson County, Missouri

State of Missouri
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335
PROFESSIONAL ENGINEER

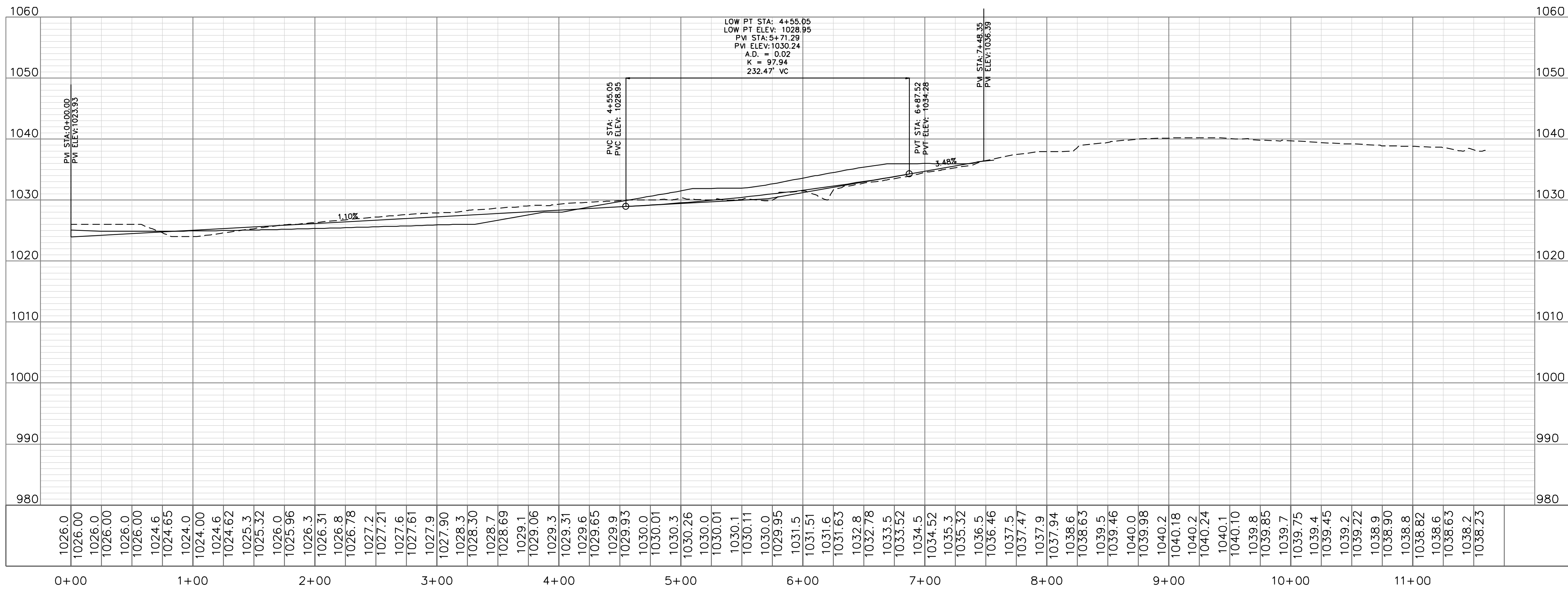
Street Plan and Profile
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri

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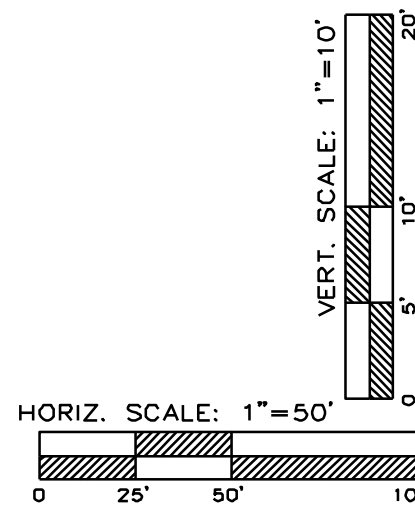
C. 203



SW JEFFERSON STREET



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Development Services Department
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10/30/2025



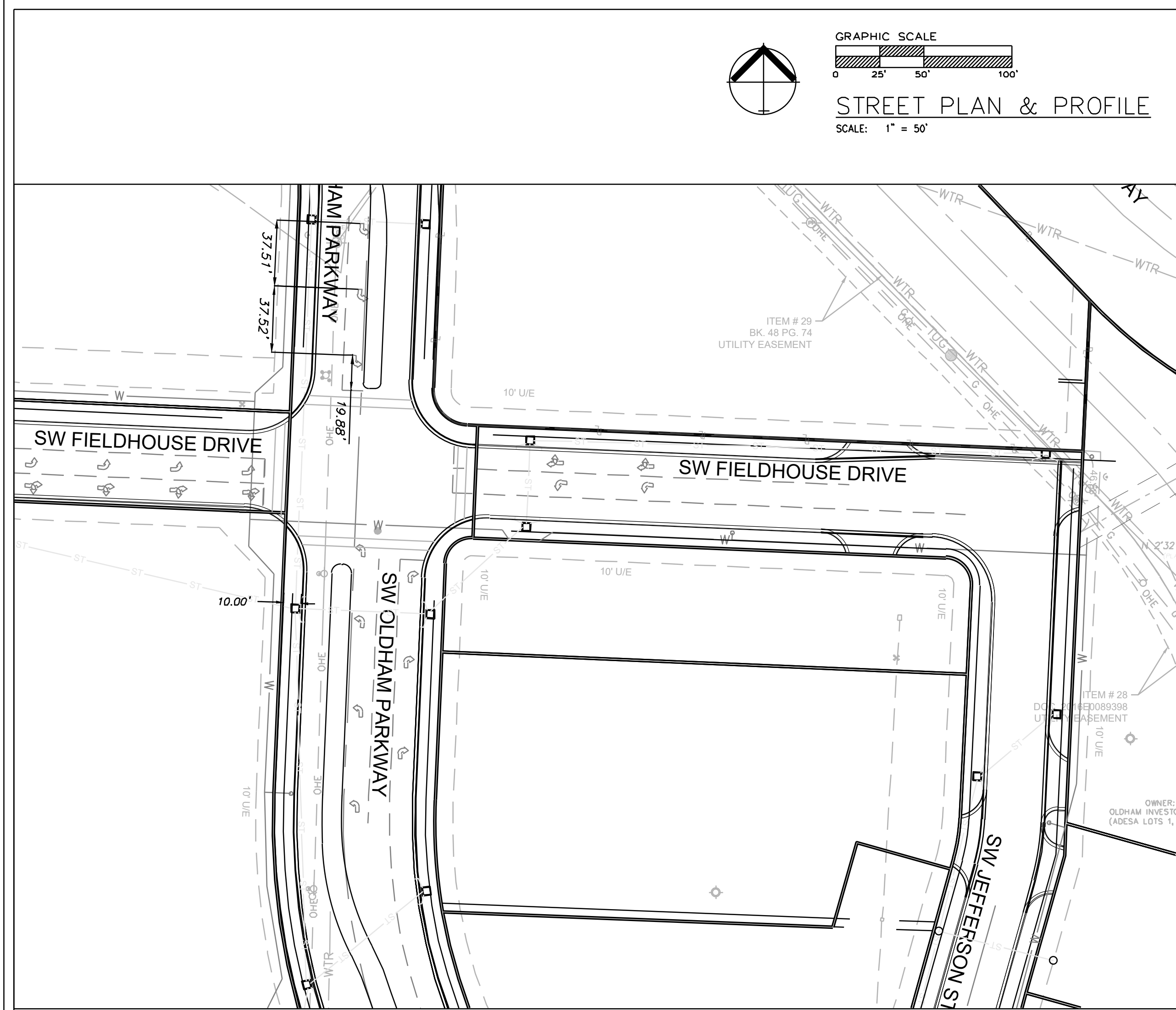
Street Plan and Profile

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Lee's Summit, Jackson County, Missouri

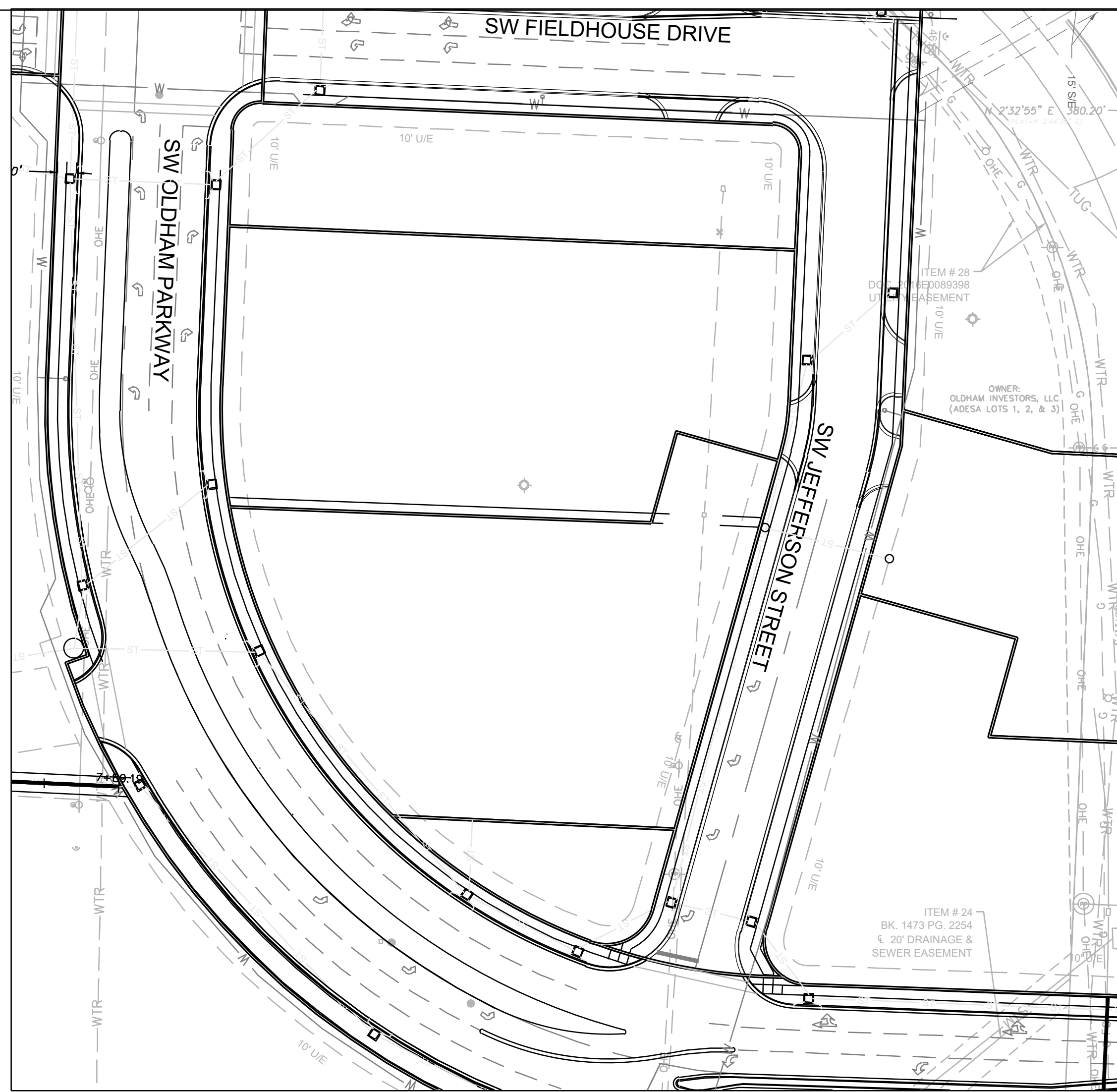
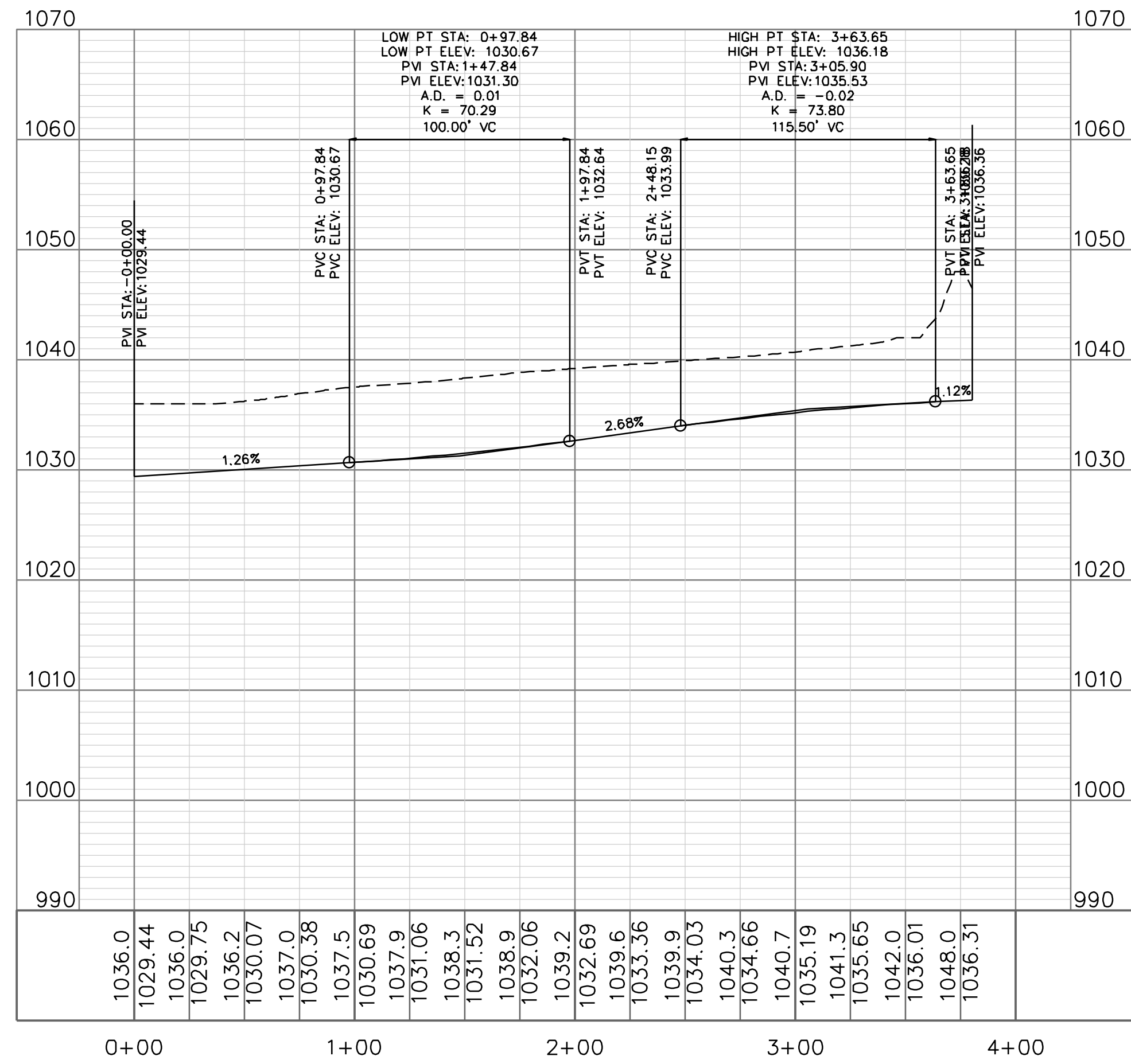


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OK PE 25226
NE PE E-14335

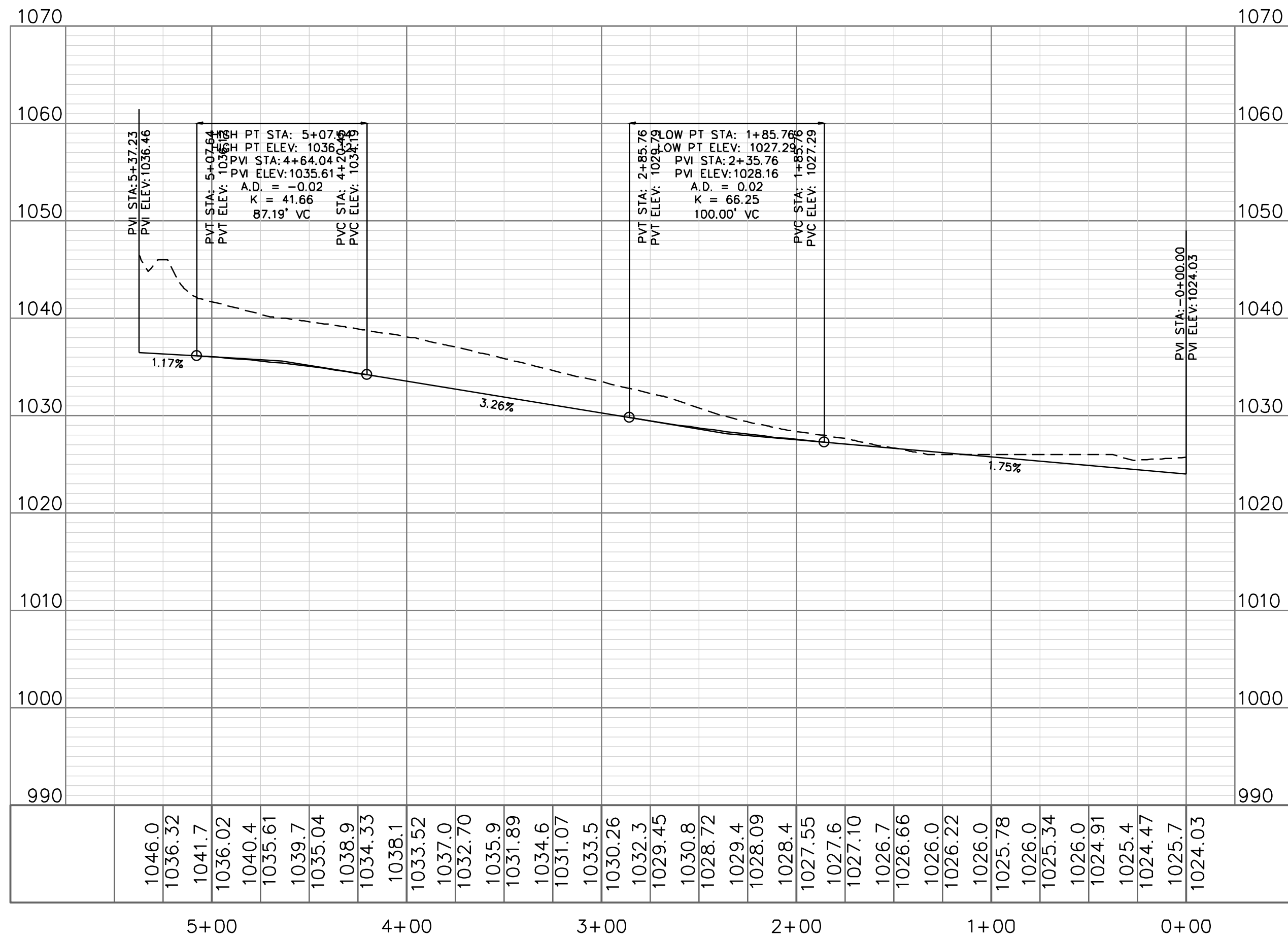
REVISIONS	
REV. 12/10/2024	
REV. 1/2/2025	
REV. 2/6/2025	
REV. 3/5/2025	
REV. 3/24/2025	
REV. 4/15/2025	
REV. 10/16/2025	



SW FIELDHOUSE DR



SW JEFFERSON ST



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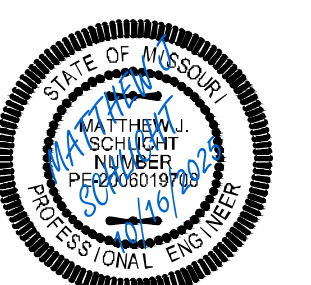
Street Plan and Profile
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri

Project: OLDHAM VILLAGE
LSMO
Issue Date: November 6, 2024

Oldham Village
Lee's Summit, Jackson County, Missouri

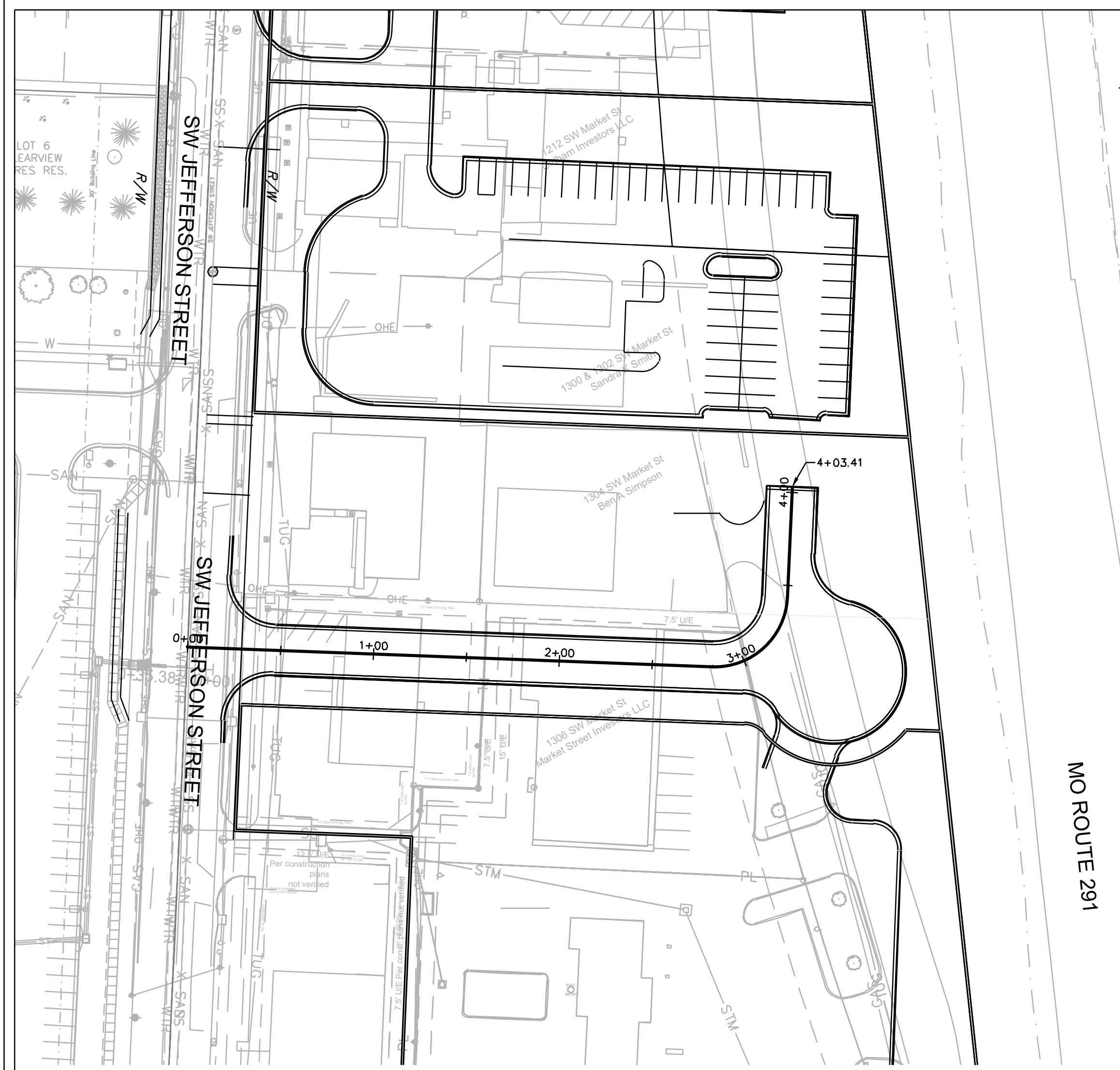
Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6284
Nebraska
Engineering CA2821

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

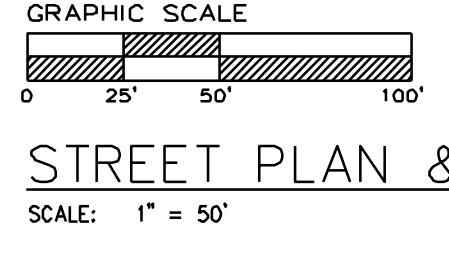
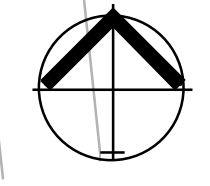


Matthew J. Schlacht
MO PE 0006191708
KS PE 19071
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REV. 4/15/2025
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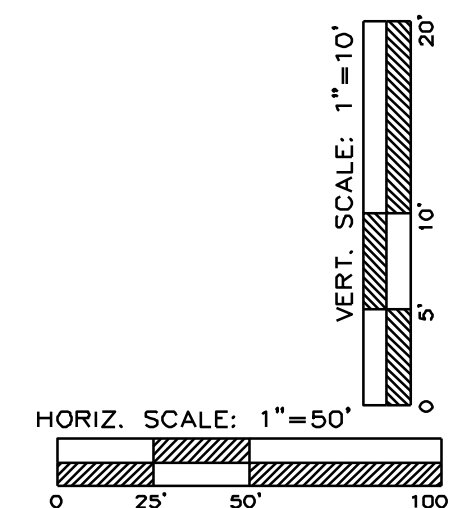
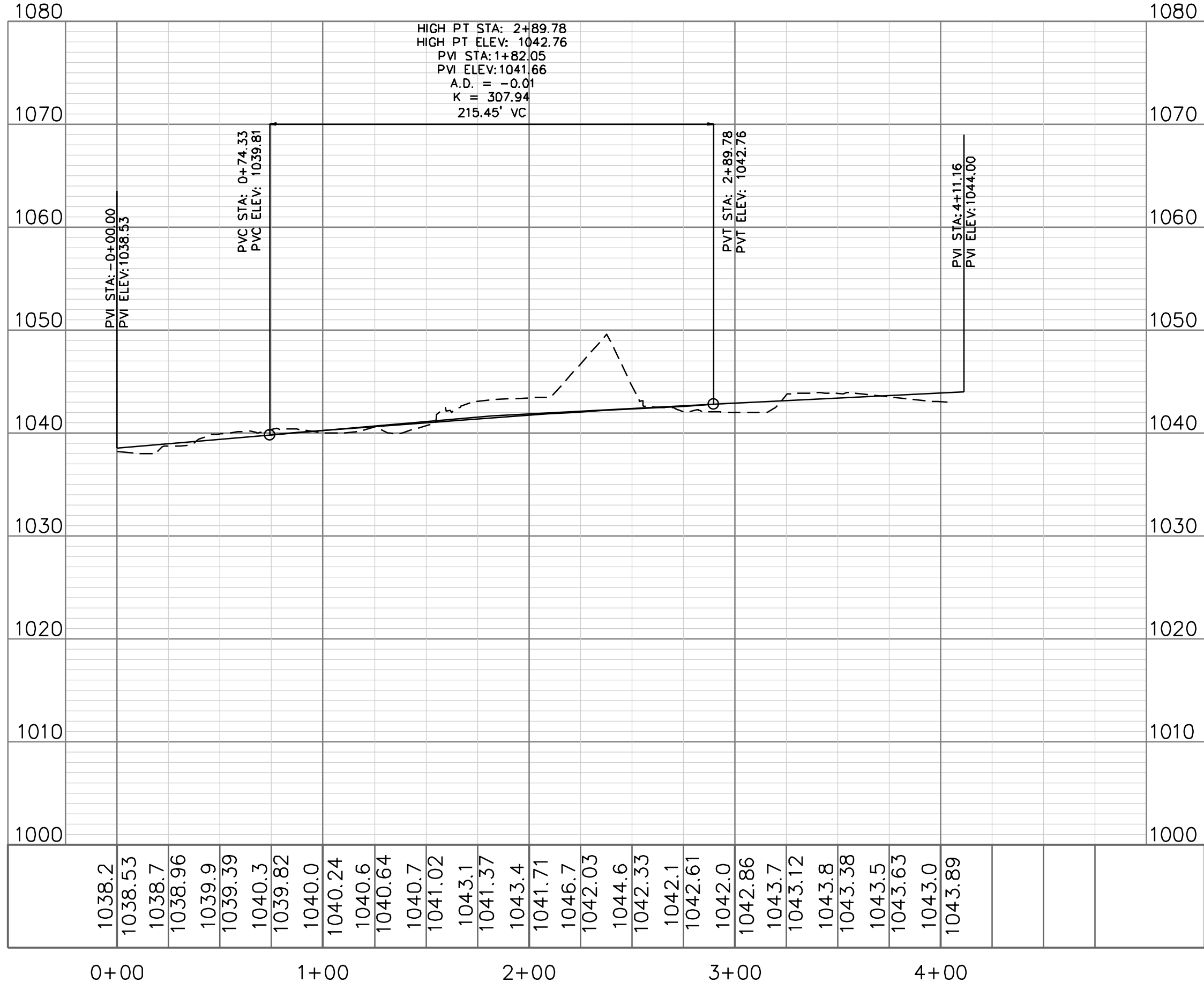
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STREET PLAN & PROFILE

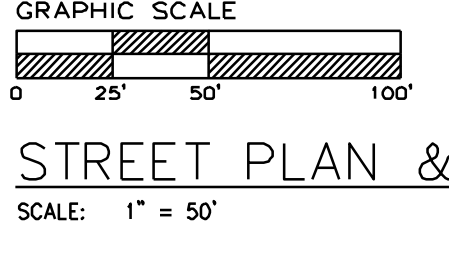
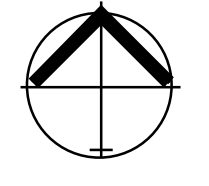
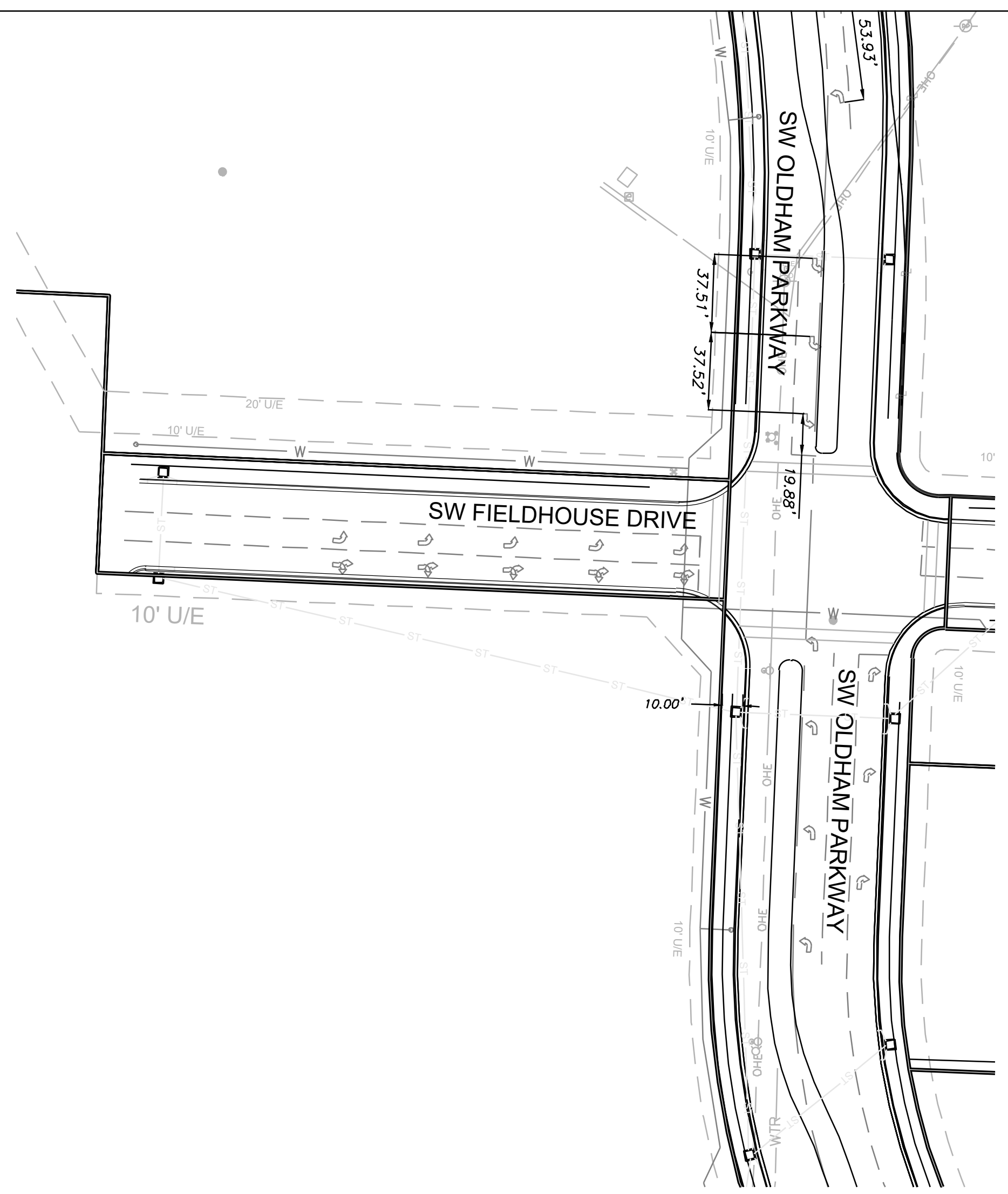
SCALE: 1" = 50'

STREET 5



HORIZ. SCALE: 1"=50'

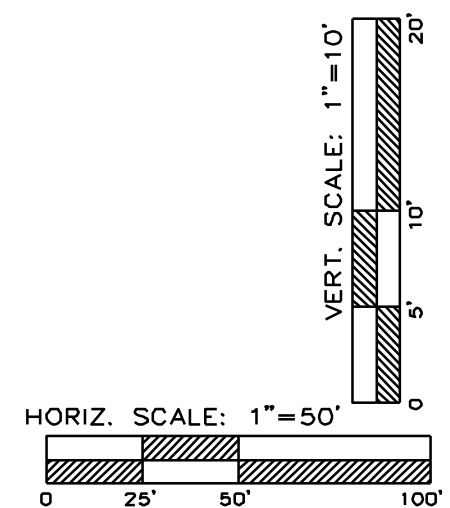
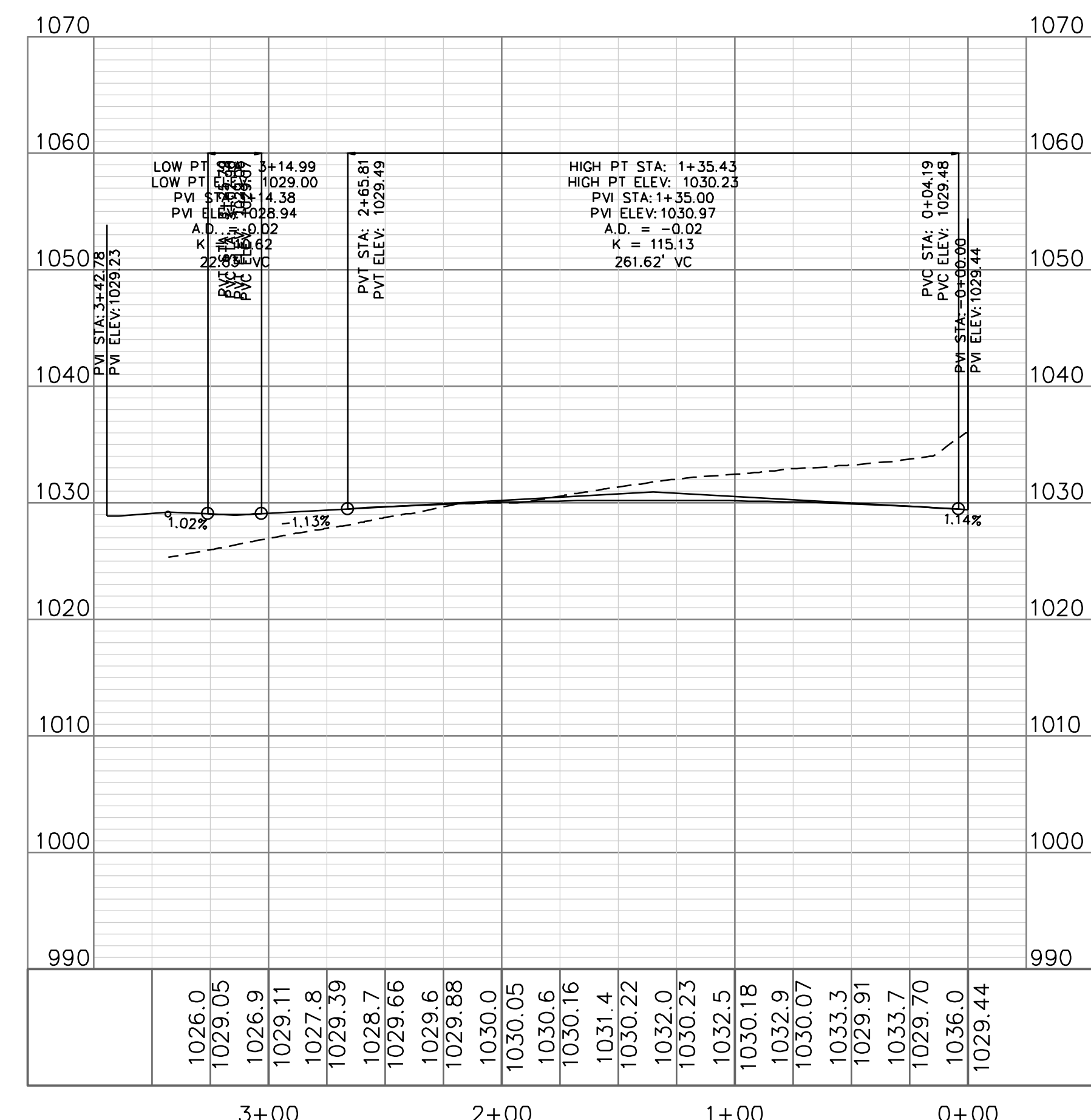
VERT. SCALE: 1"=10'



STREET PLAN & PROFILE

SCALE: 1" = 50'

SW FIELDHOUSE DRIVE



HORIZ. SCALE: 1"=50'

VERT. SCALE: 1"=10'

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Oldham Village
Lee's Summit, Jackson County, Missouri

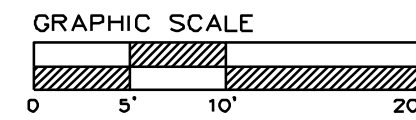
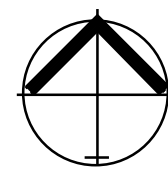
Project: OLDHAM VILLAGE
LSMO
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Street Plan and Profile
Construction Plans for:
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Lee's Summit, Jackson County, Missouri

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

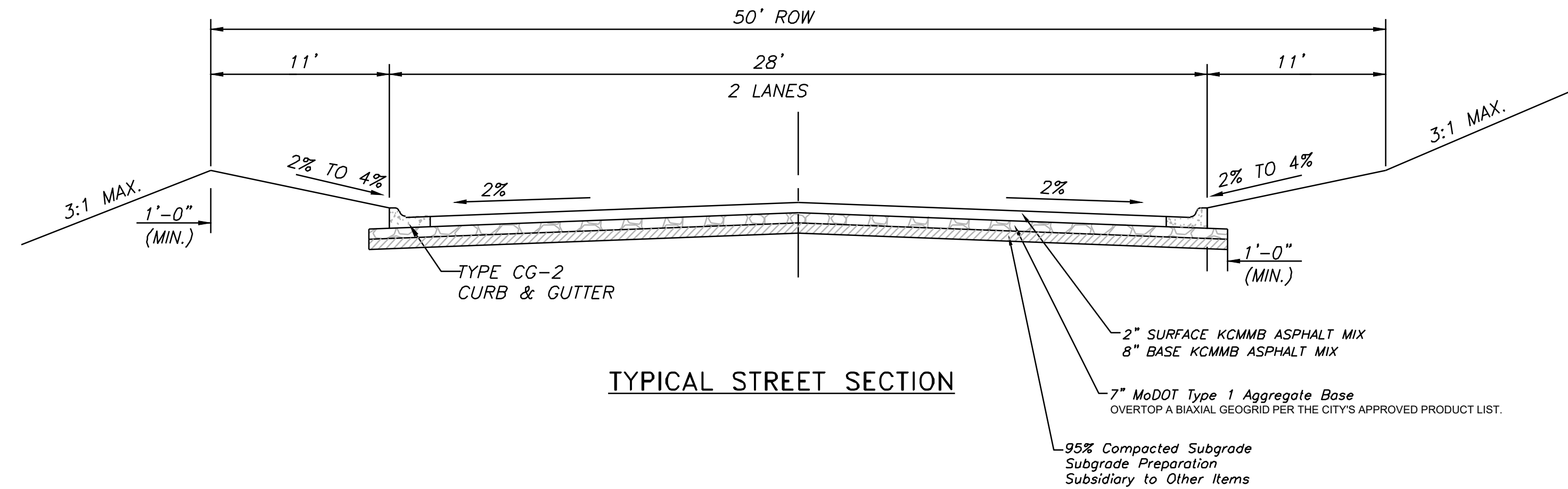
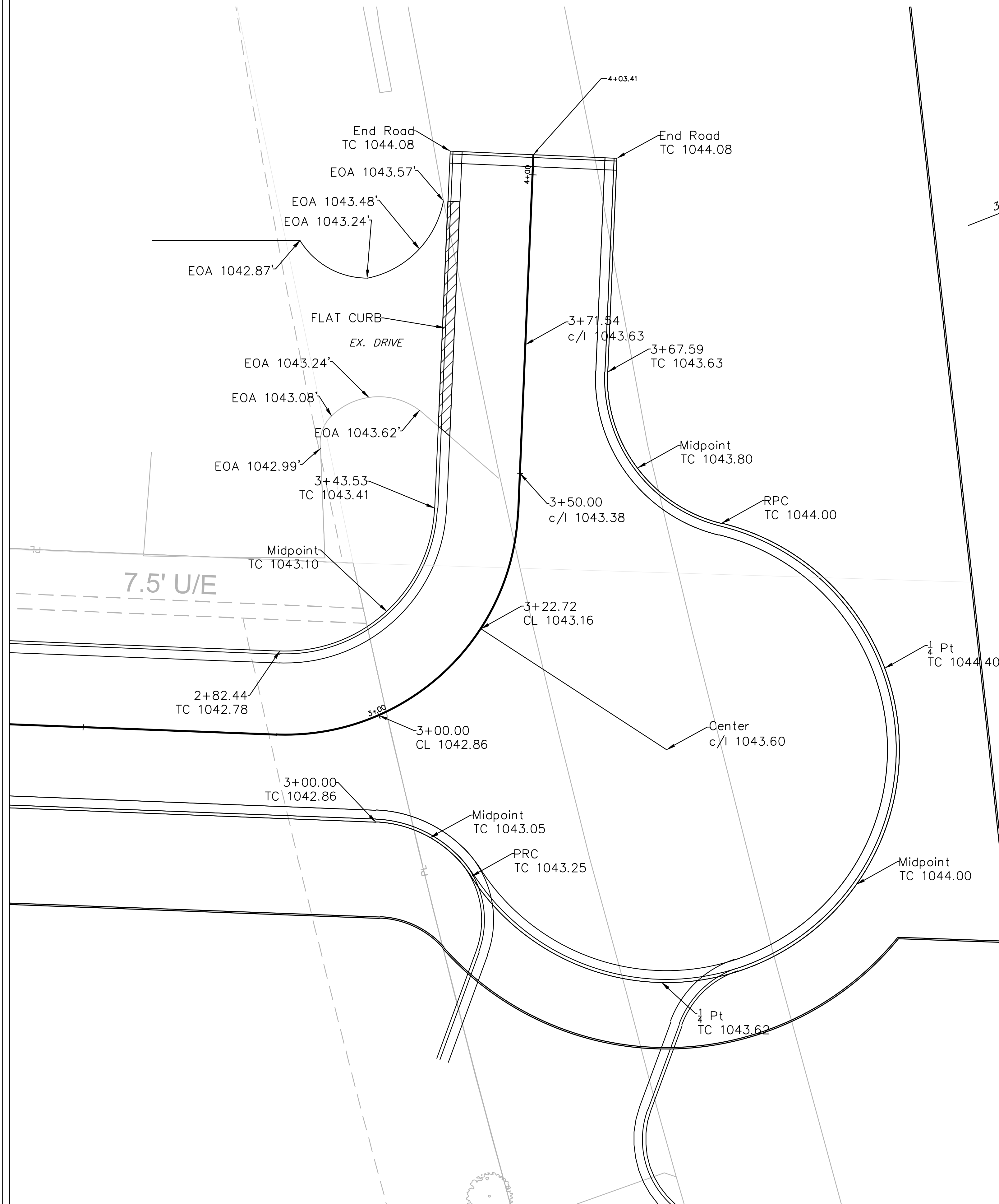
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C.206

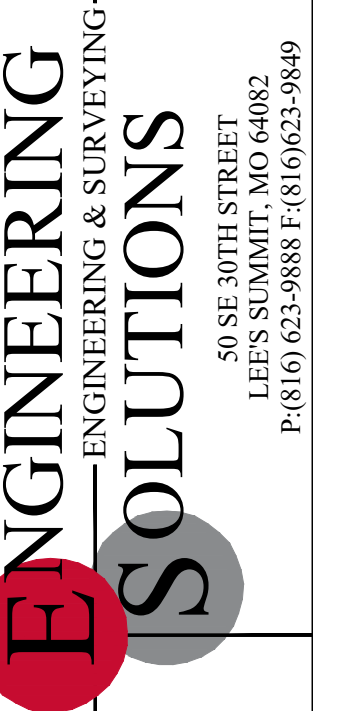


STREET 5 SPOT GRADES
SCALE: 1" = 10'

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TYPICAL STREET SECTION

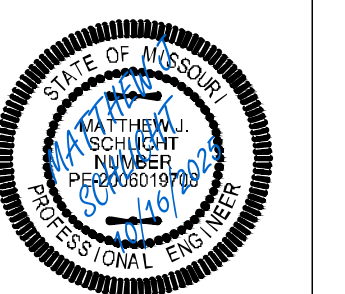


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Lee's Summit, Jackson County, Missouri

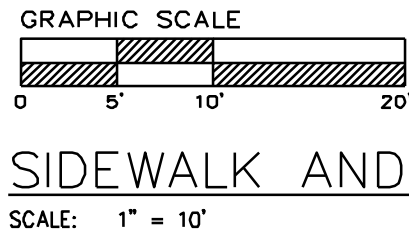
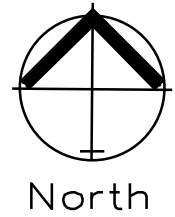
Project: MM
Marketplace:
LSMO
Issue Date:
November 6, 2024

Street 5 Spot Grades
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri

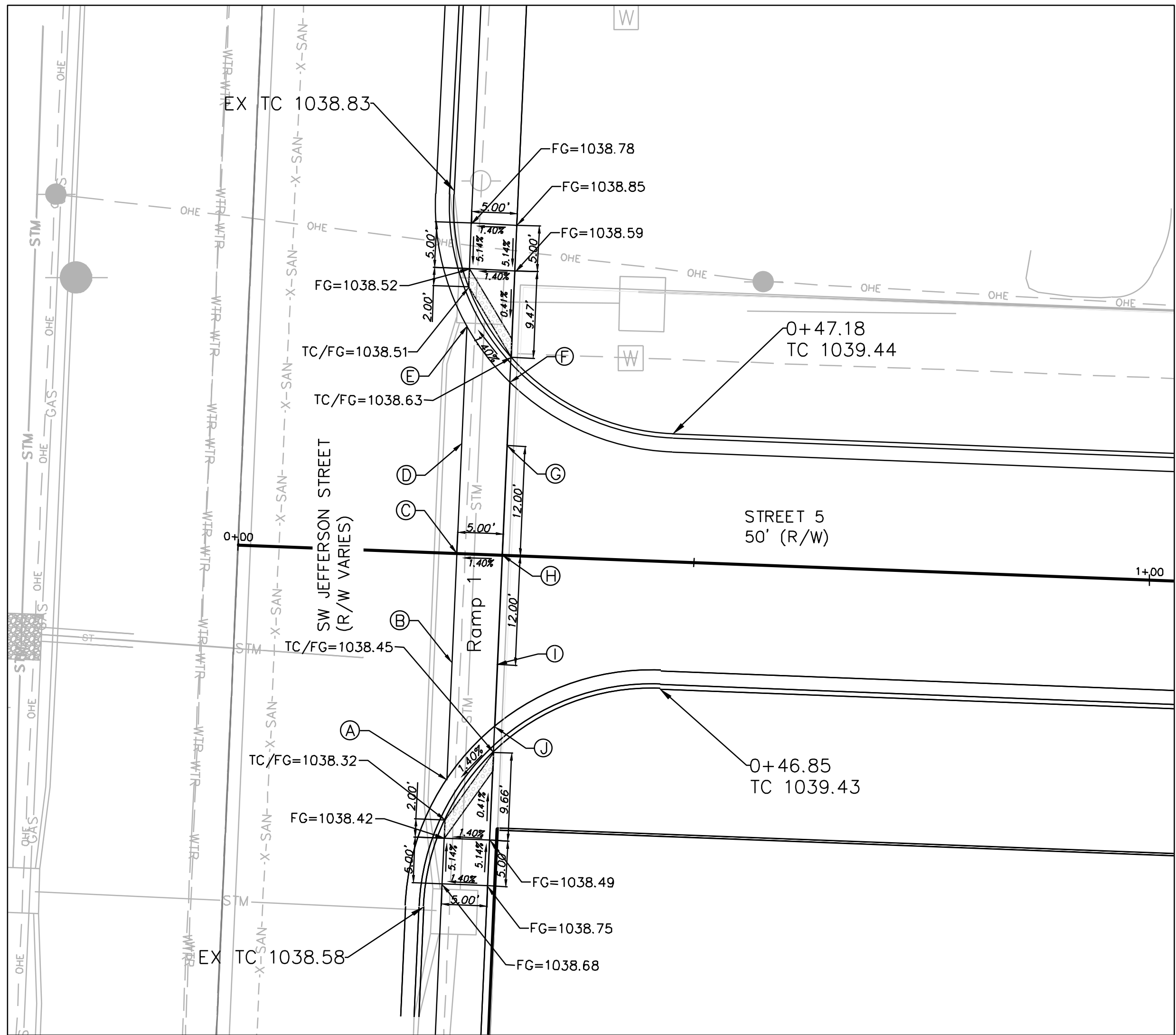


Matthew J. Schlicht
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REV. 10/16/2025	



SIDEWALK AND INTERSECTION PLAN



DETAIL 1

Legend:

EX TC = Existing Top of Curb

EX FG = Existing Finished Grade

FG = Finished Grade

TC = Top of Curb

TC/FG = Top of Curb/Finished Grade

Detectable Warning

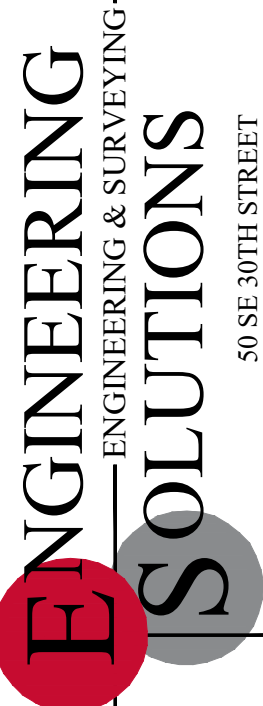
SPOT ELEVATION TABLE

Spot	Ramp 1			
A	1038.32			
B	1038.84			
C	1038.96			
D	1038.84			
E	1038.51			
F	1038.63			
G	1038.91			
H	1039.03			
I	1038.91			
J	1038.45			

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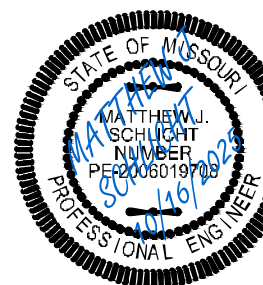


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Oldham Village
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Project:
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Street 5 Spot Grades
Construction Plans for:
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Lee's Summit, Jackson County, Missouri

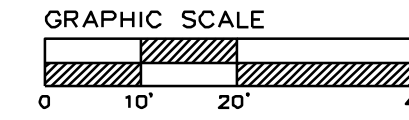


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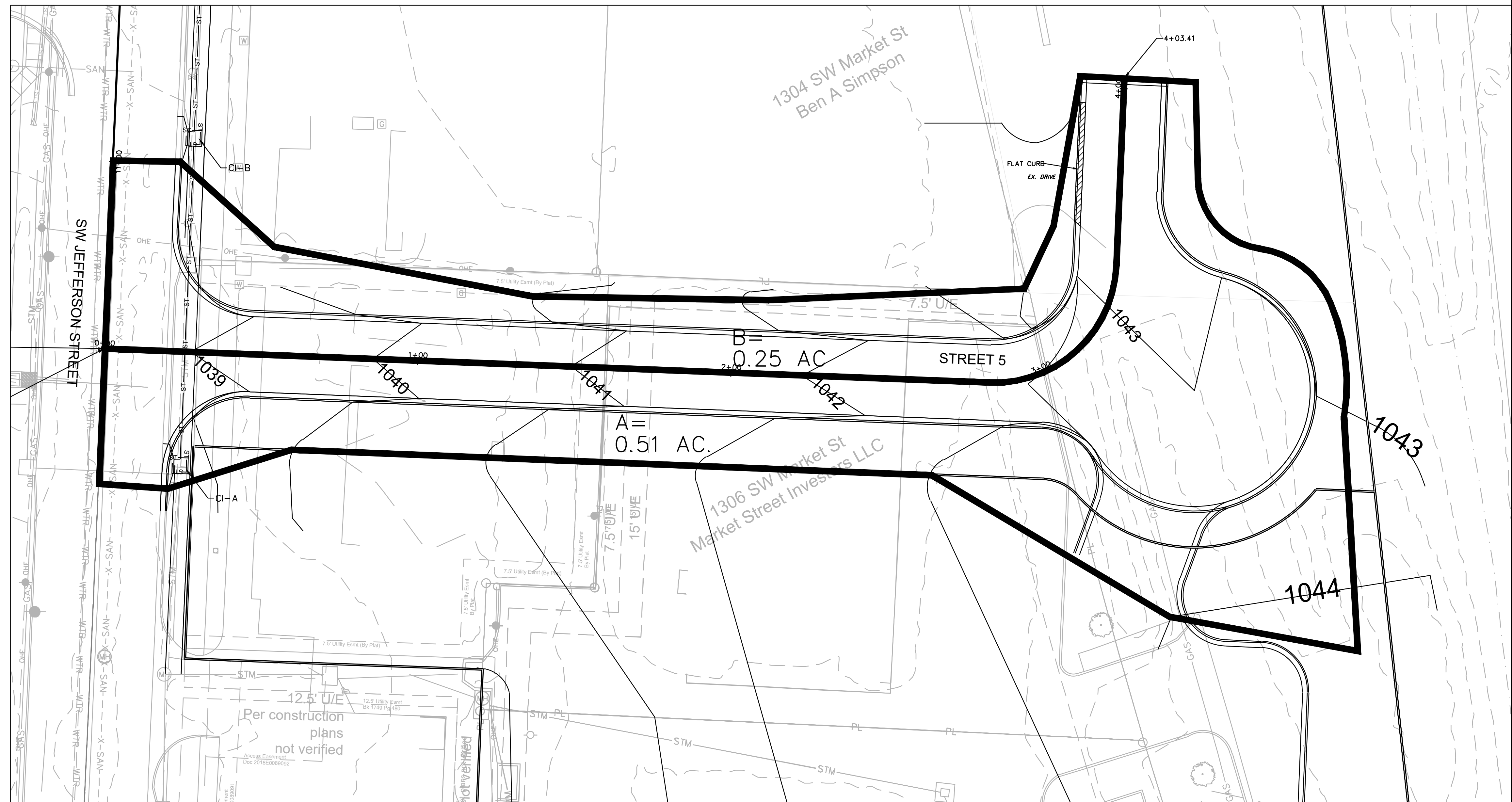
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Development Services Department
Lee's Summit, Missouri
10/30/2025



SCALE: 1" = 20'

100-YEAR STRUCTURE																							
D.S. St	U.S. St	Area	InletTime	Inlet	RunoffCoef	Q = CI	Q Carry-ove	Q Capture	Q Bypass	JunctTyp	CurbHeight	CurbLength	GutterSlop	GutterWidth	CrossSlope, St	CrossSlope, S	LocalDepth	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 C	FUT CI B	0.25	5.5	9.66	0.68	1.64	0.00	1.63	0.01	Curb	5.8	5.00	0.010	2.00	0.050	0.020	9.0	0.96	0.03	0.69	0.21	7.39	Offsite
FUT CI B	FUT C I A	0.51	6.5	9.33	0.68	3.24	0.00	2.67	0.56	Curb	5.8	5.00	0.010	2.00	0.050	0.020	9.0	1.01	0.15	4.39	0.26	9.87	Offsite

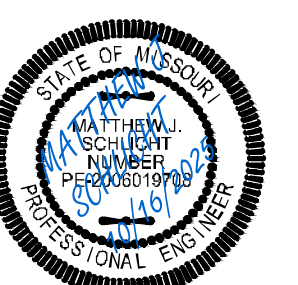


Oldham Village
Lee's Summit, Jackson County, Missouri

Project:
OLDHAM
MARKETPLACE,
LSMO

Issue Date:
November 5, 2024

Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



Matthew J. Schlicht
MO PE 2006019708
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REVISIONS

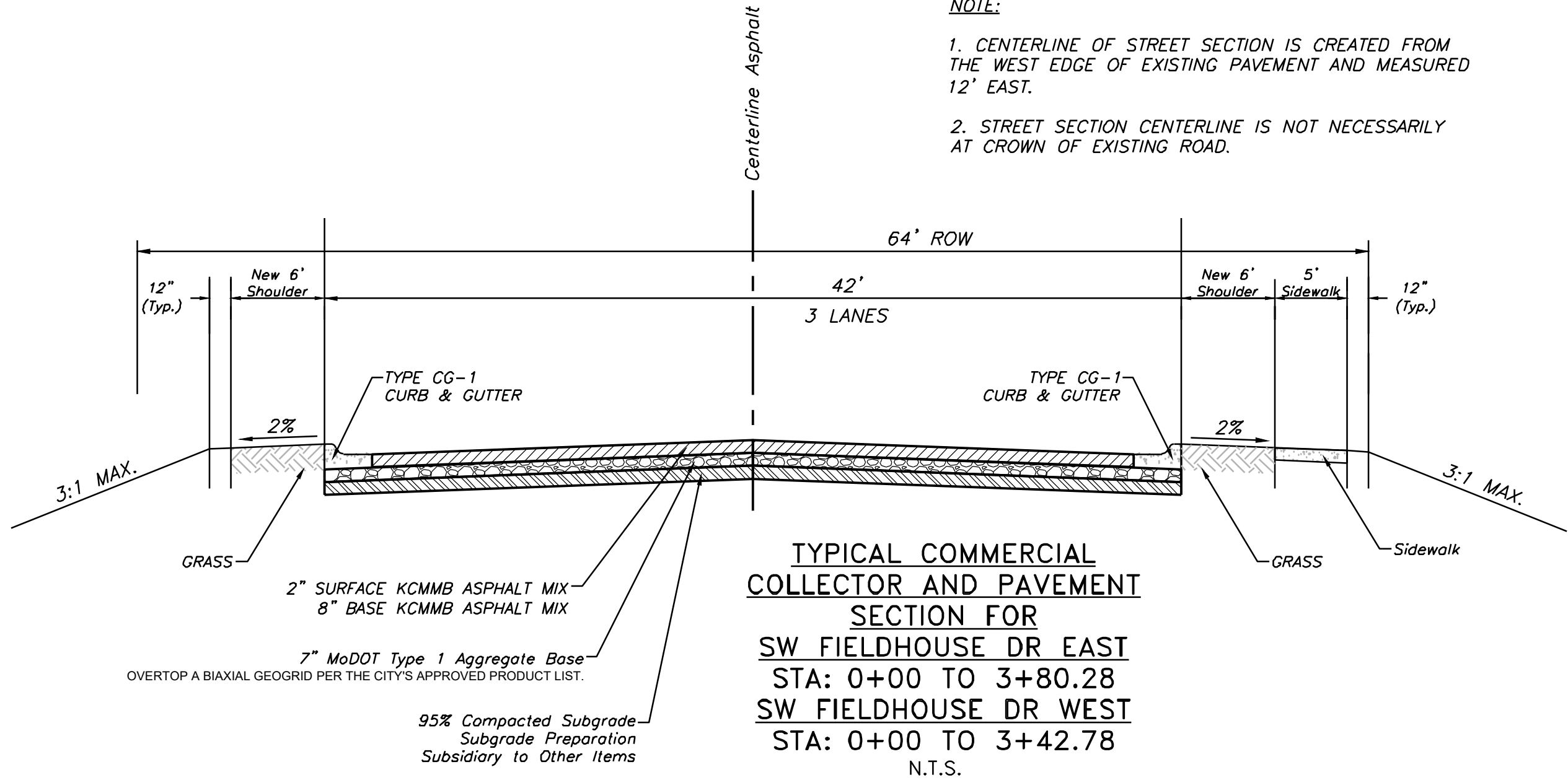
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 2. REV. 1/2/2025
 3. REV. 2/6/2025
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NOTE:

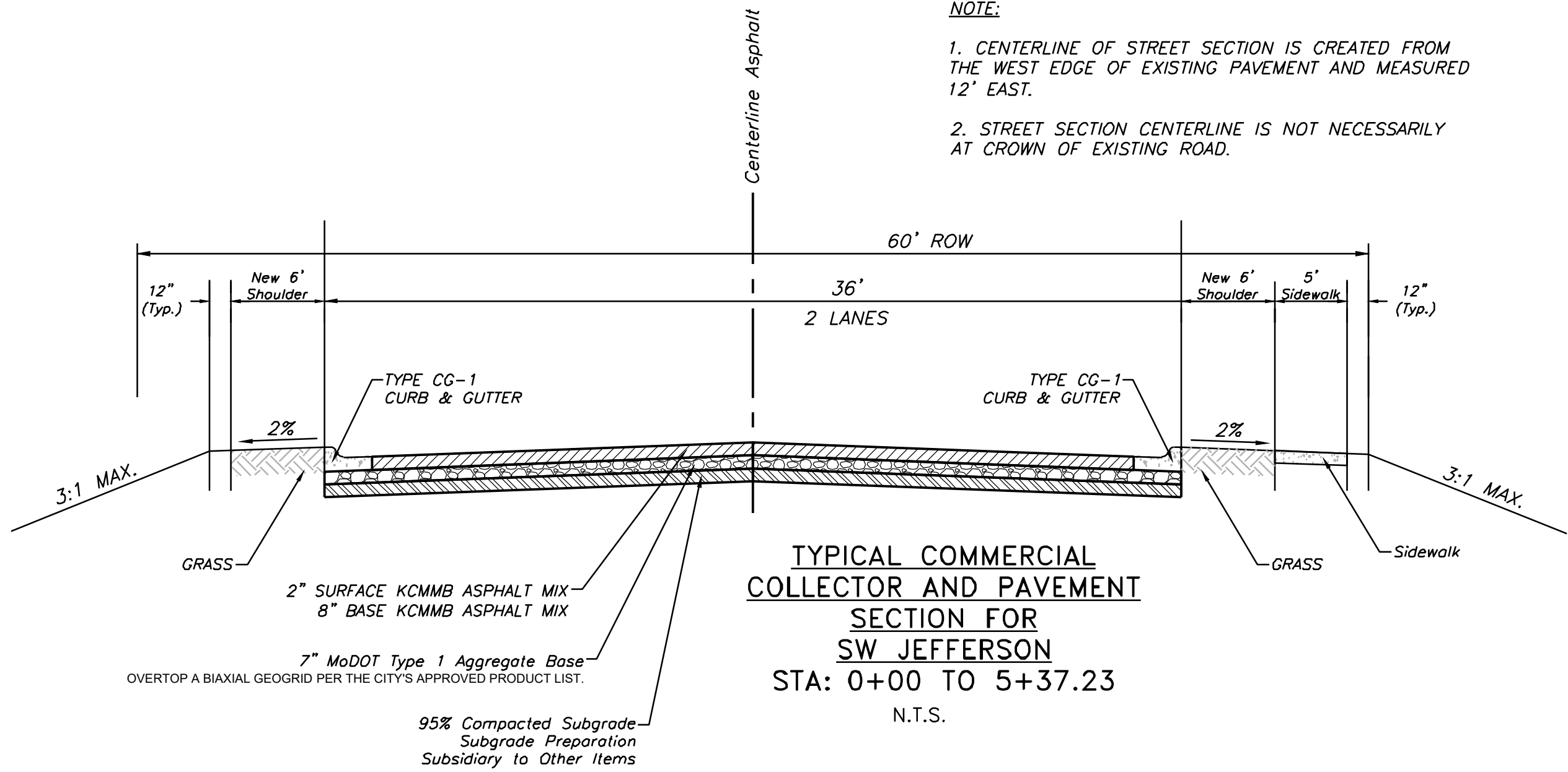
1. CENTERLINE OF STREET SECTION IS CREATED FROM THE WEST EDGE OF EXISTING PAVEMENT AND MEASURED 12' EAST.
2. STREET SECTION CENTERLINE IS NOT NECESSARILY AT CROWN OF EXISTING ROAD.



TYPICAL COMMERCIAL COLLECTOR AND PAVEMENT SECTION FOR SW FIELDHOUSE DR EAST STA: 0+00 TO 3+80.28 SW FIELDHOUSE DR WEST STA: 0+00 TO 3+42.78 N.T.S.

NOTE:

1. CENTERLINE OF STREET SECTION IS CREATED FROM THE WEST EDGE OF EXISTING PAVEMENT AND MEASURED 12' EAST.
2. STREET SECTION CENTERLINE IS NOT NECESSARILY AT CROWN OF EXISTING ROAD.



TYPICAL COMMERCIAL COLLECTOR AND PAVEMENT SECTION FOR SW JEFFERSON STA: 0+00 TO 5+37.23 N.T.S.

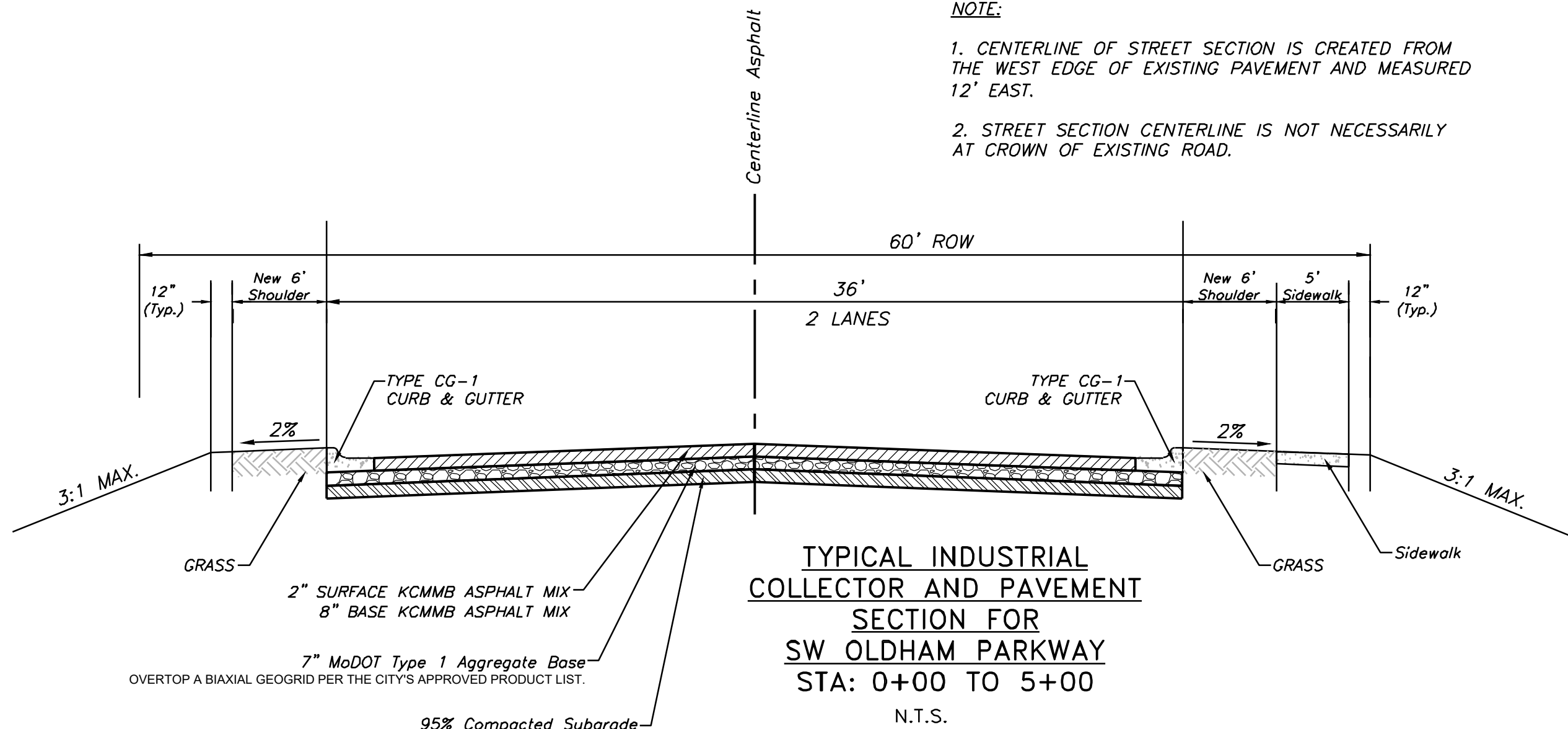
B. Weather Limitations: When the moisture of the aggregate in the stockpile or from the dryer interferes with the quality of mix production, or with normal plant operations, the mixing and placing of hot-mix asphalt will not be permitted without the permission of the Engineer. No mixture shall be placed on wet or frozen surface.

Hot Mix asphalt paving shall not be mixed or placed when the ambient air or base temperature is below the temperatures shown in the following table, or when there is frost in the subgrade or any other time when weather conditions are unsuitable for the type of material being placed without expressed approval of the Engineer.

Paving Course	Thickness (inches)	Air Temperature (Degrees F)	Road Surface Temperature (Degrees F)
Surface	All	50	55
Base	Less than 3	40	45
Base	3 or more	30	35

NOTE:

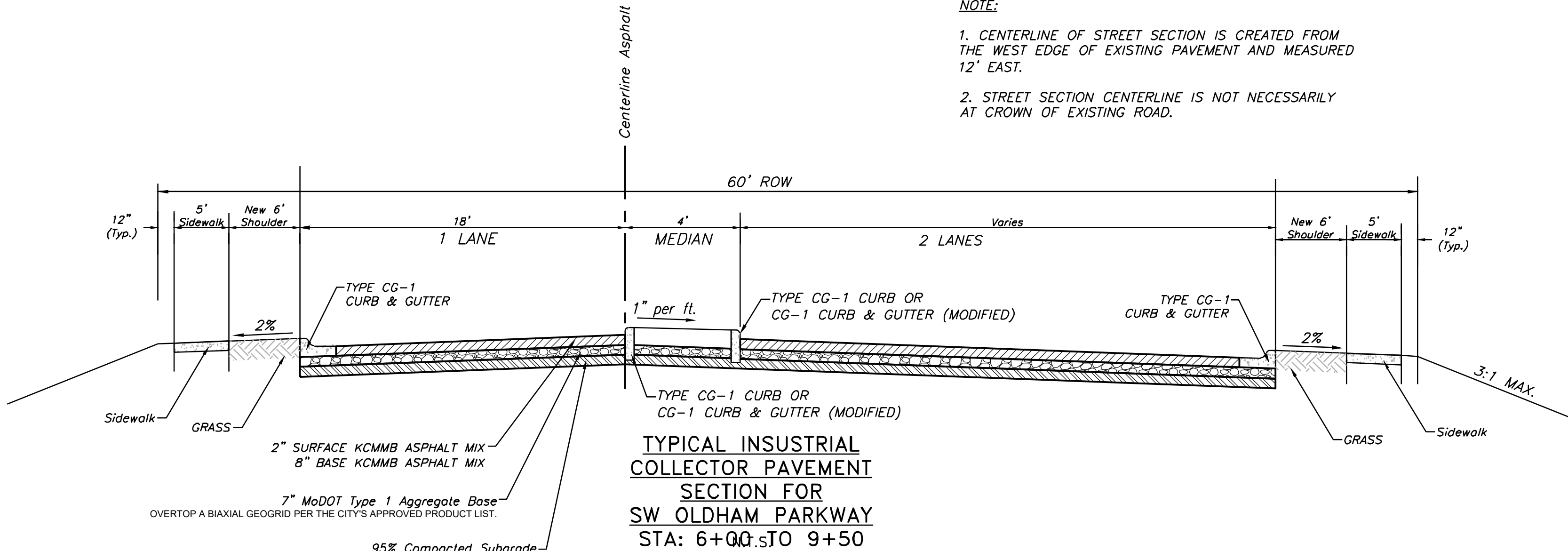
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2. STREET SECTION CENTERLINE IS NOT NECESSARILY AT CROWN OF EXISTING ROAD.



TYPICAL INDUSTRIAL COLLECTOR AND PAVEMENT SECTION FOR SW OLDHAM PARKWAY STA: 0+00 TO 5+00 N.T.S.

NOTE:

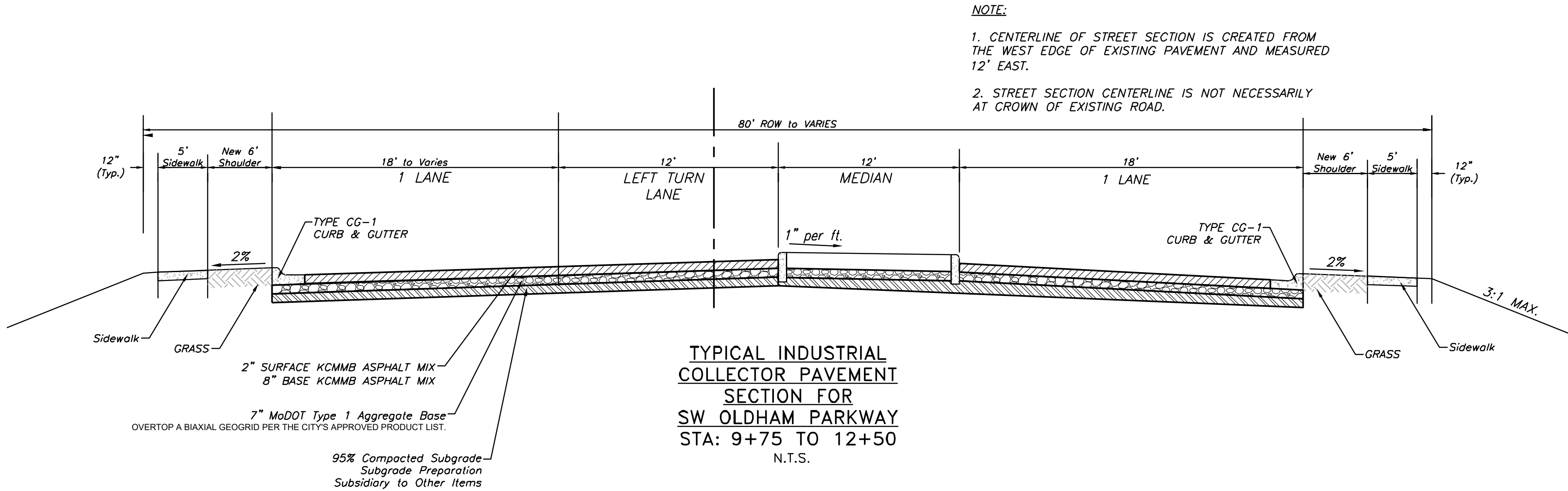
1. CENTERLINE OF STREET SECTION IS CREATED FROM THE WEST EDGE OF EXISTING PAVEMENT AND MEASURED 12' EAST.
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TYPICAL INDUSTRIAL COLLECTOR PAVEMENT SECTION FOR SW OLDHAM PARKWAY STA: 6+00 TO 9+50

NOTE:

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TYPICAL INDUSTRIAL COLLECTOR PAVEMENT SECTION FOR SW OLDHAM PARKWAY STA: 9+75 TO 12+50 N.T.S.

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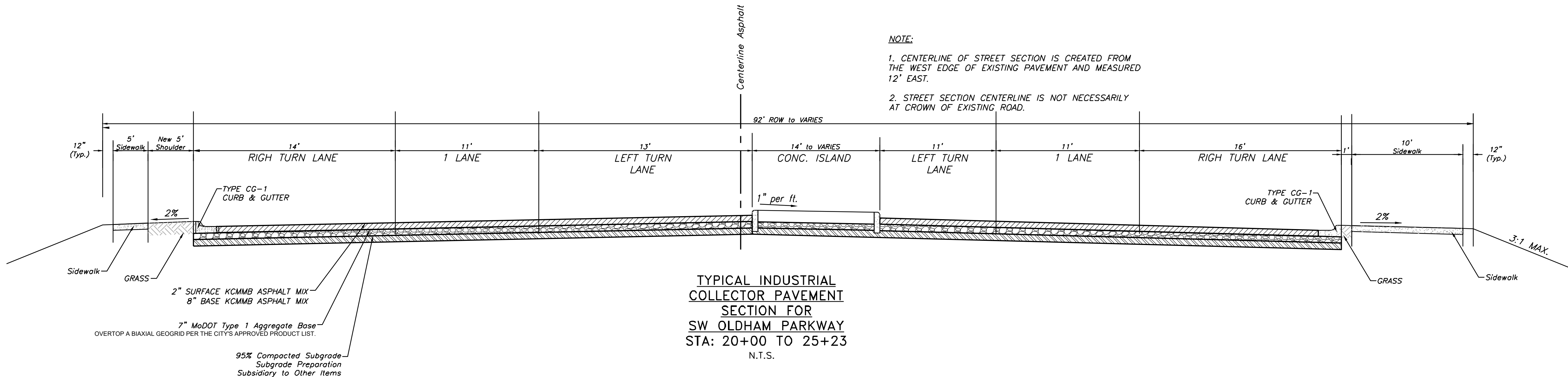
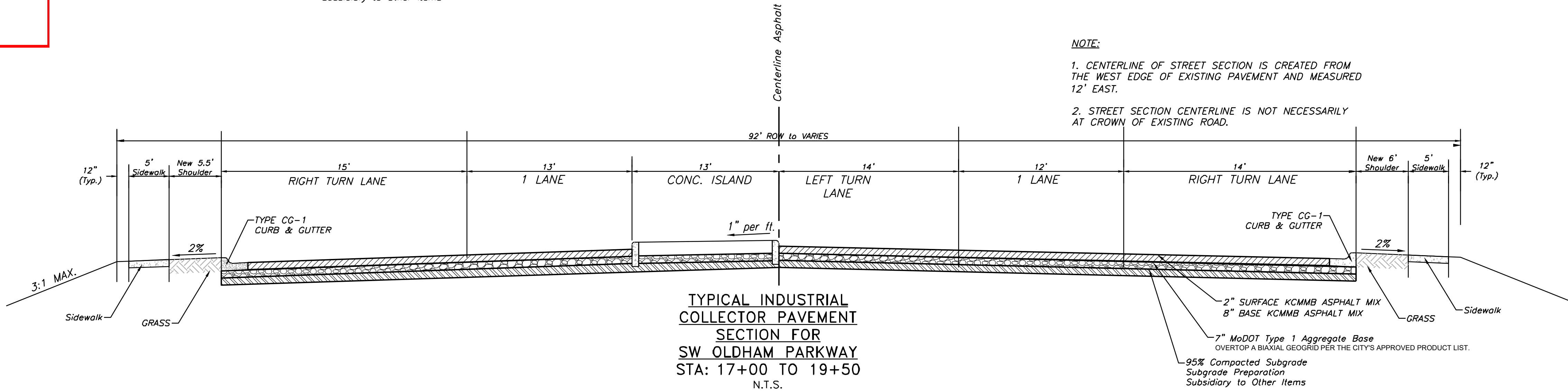
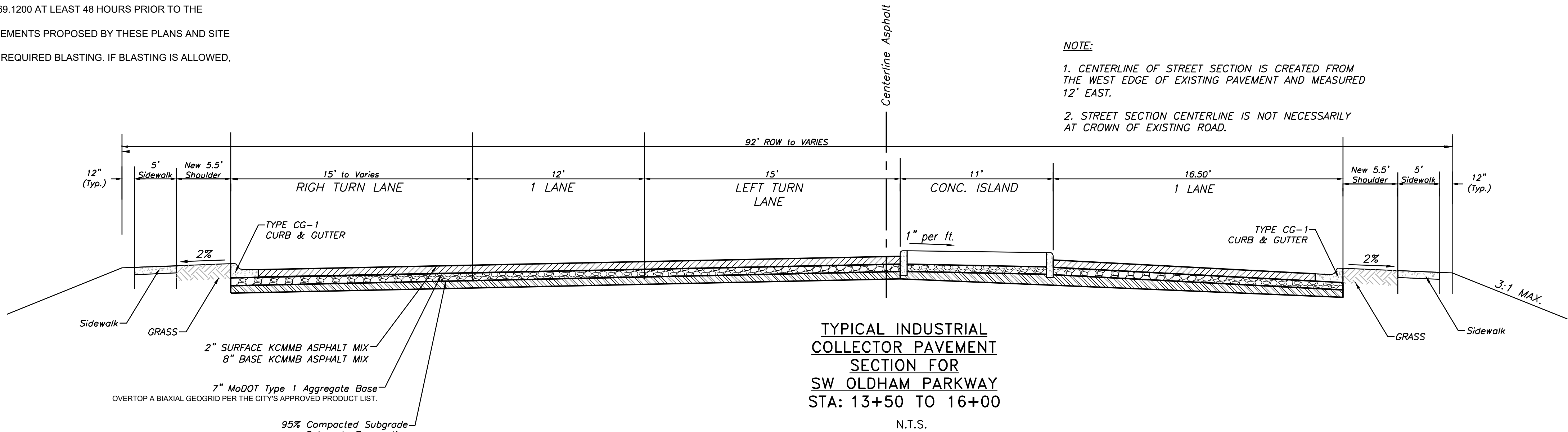
Development Services Department
Lee's Summit, Missouri
10/30/2025

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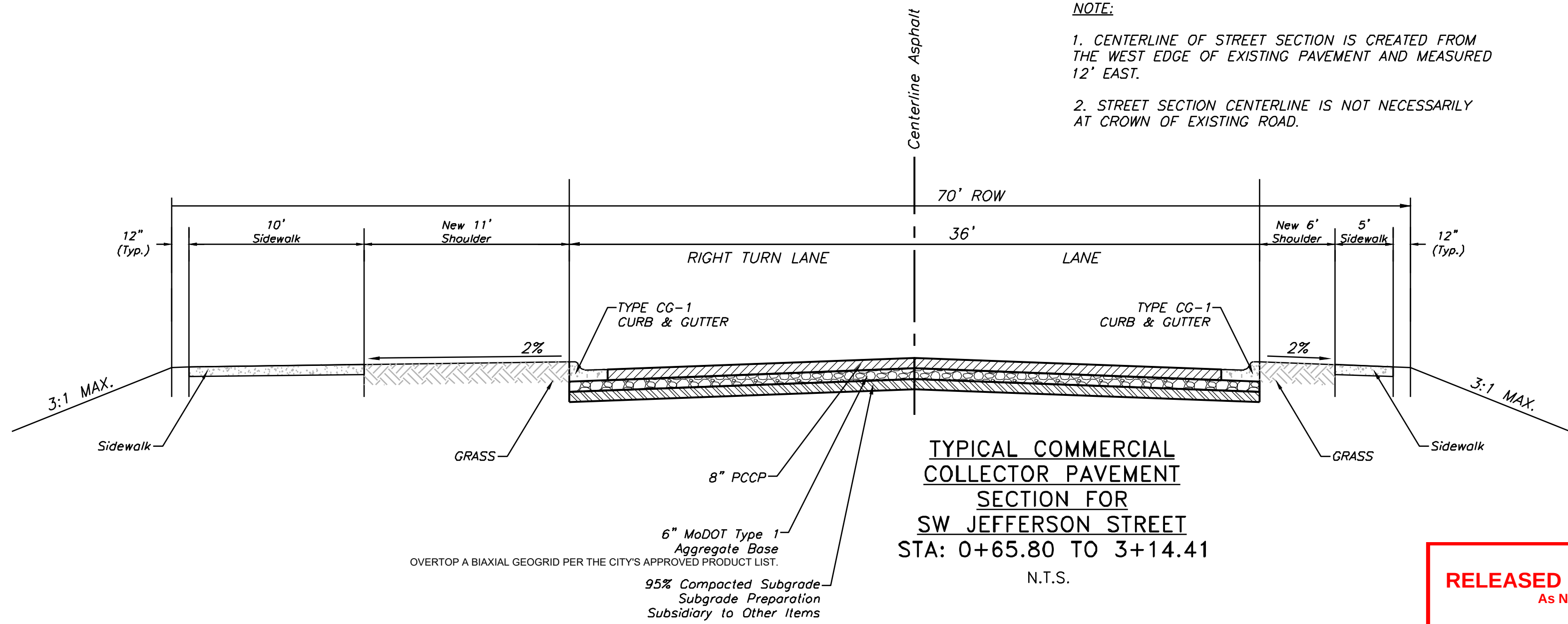
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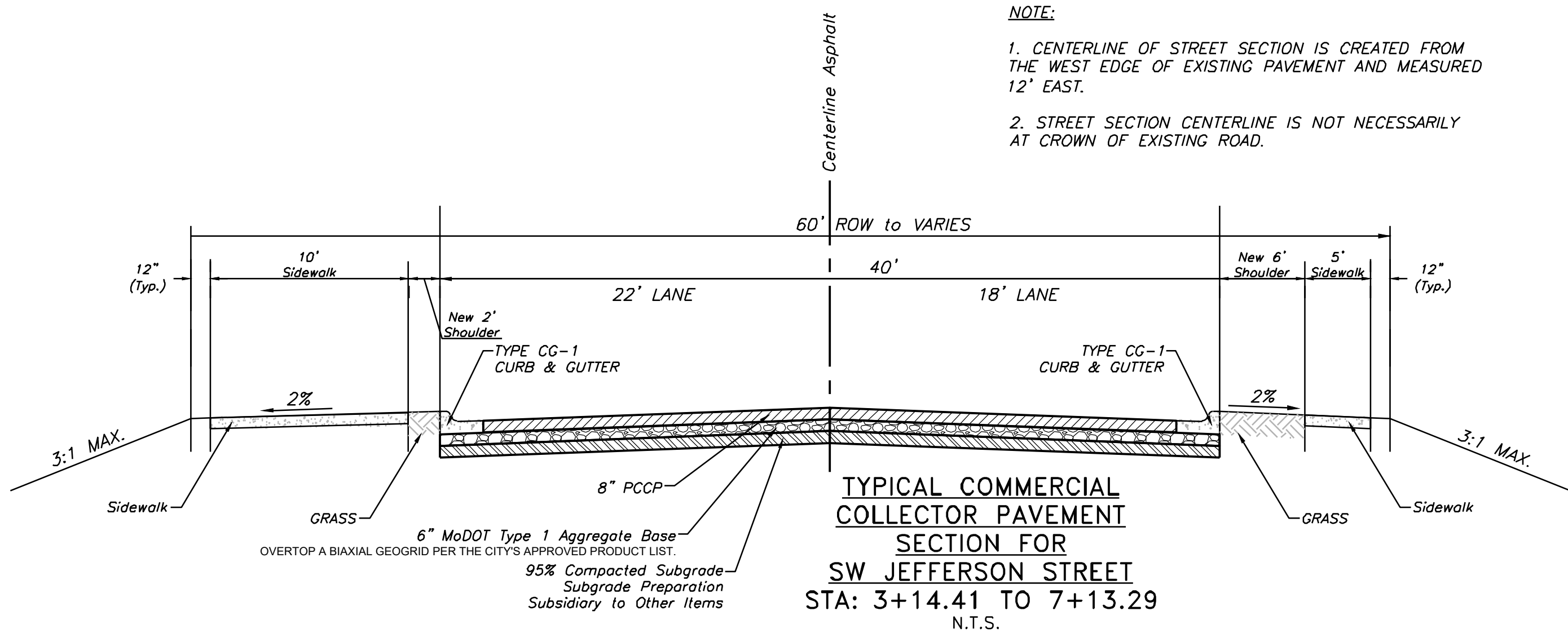
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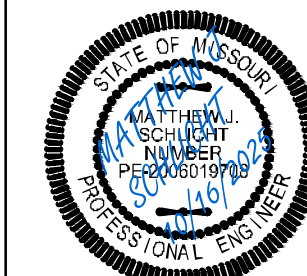
Oldham Parkway
Construction Notes and Cross Section
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri

Project: MM
MARKETPLACE,
LSMO
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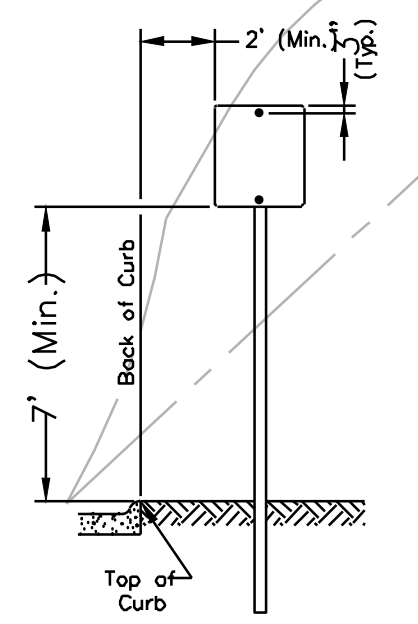
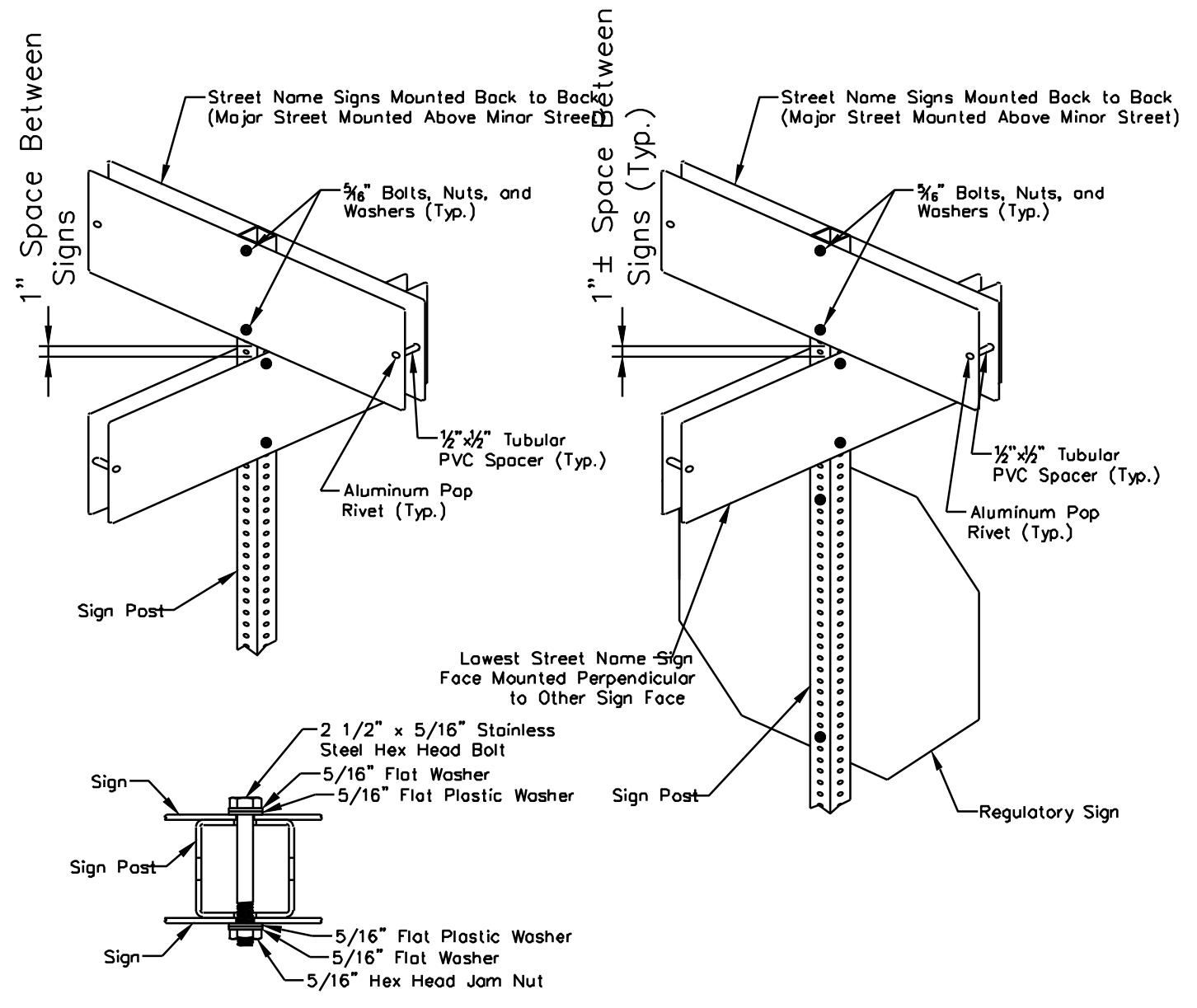
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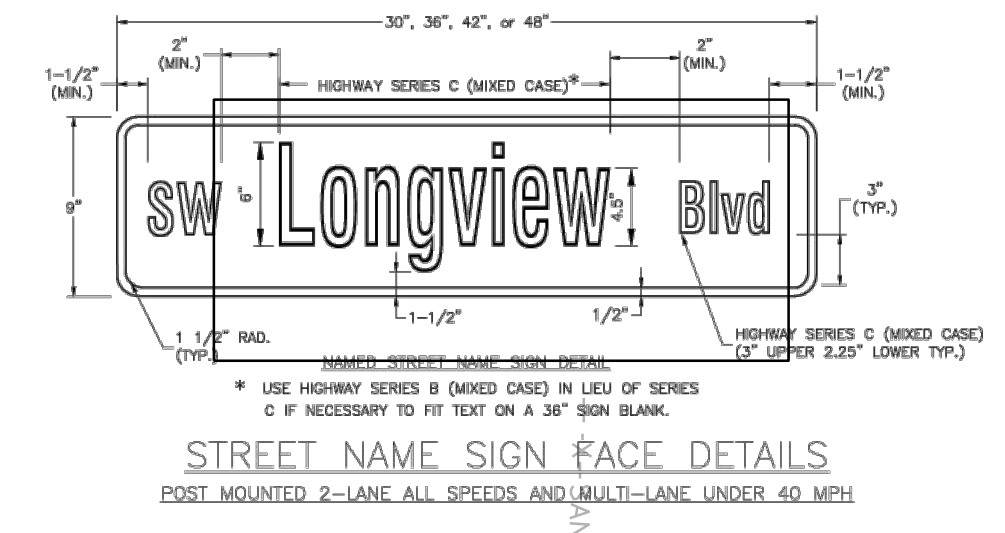
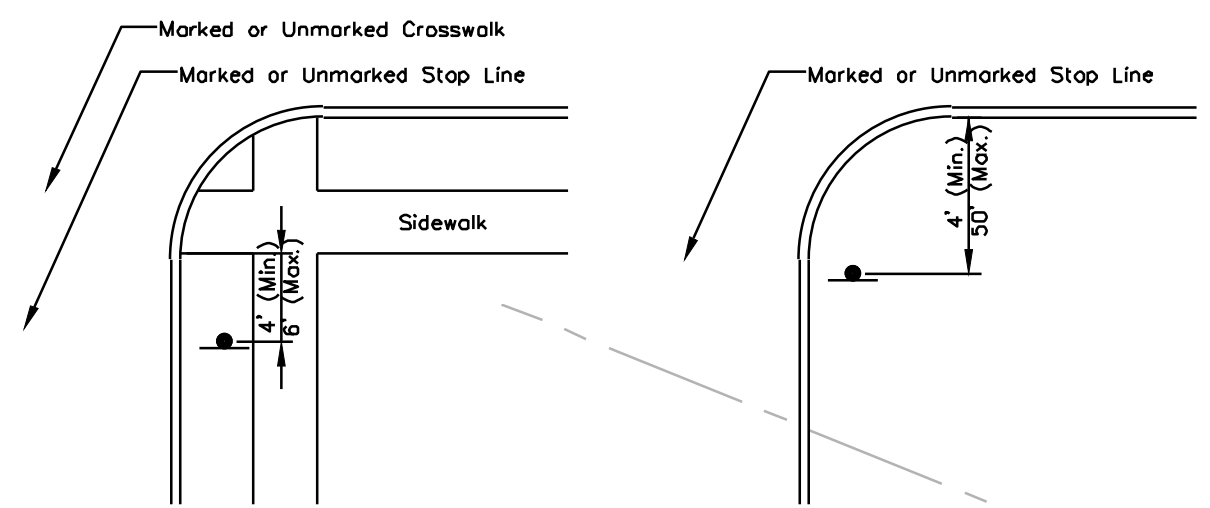


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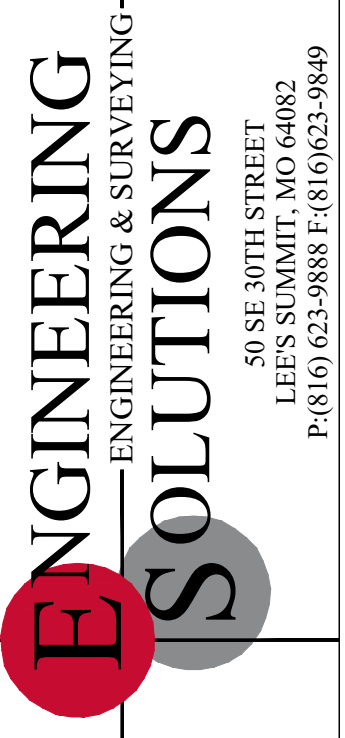
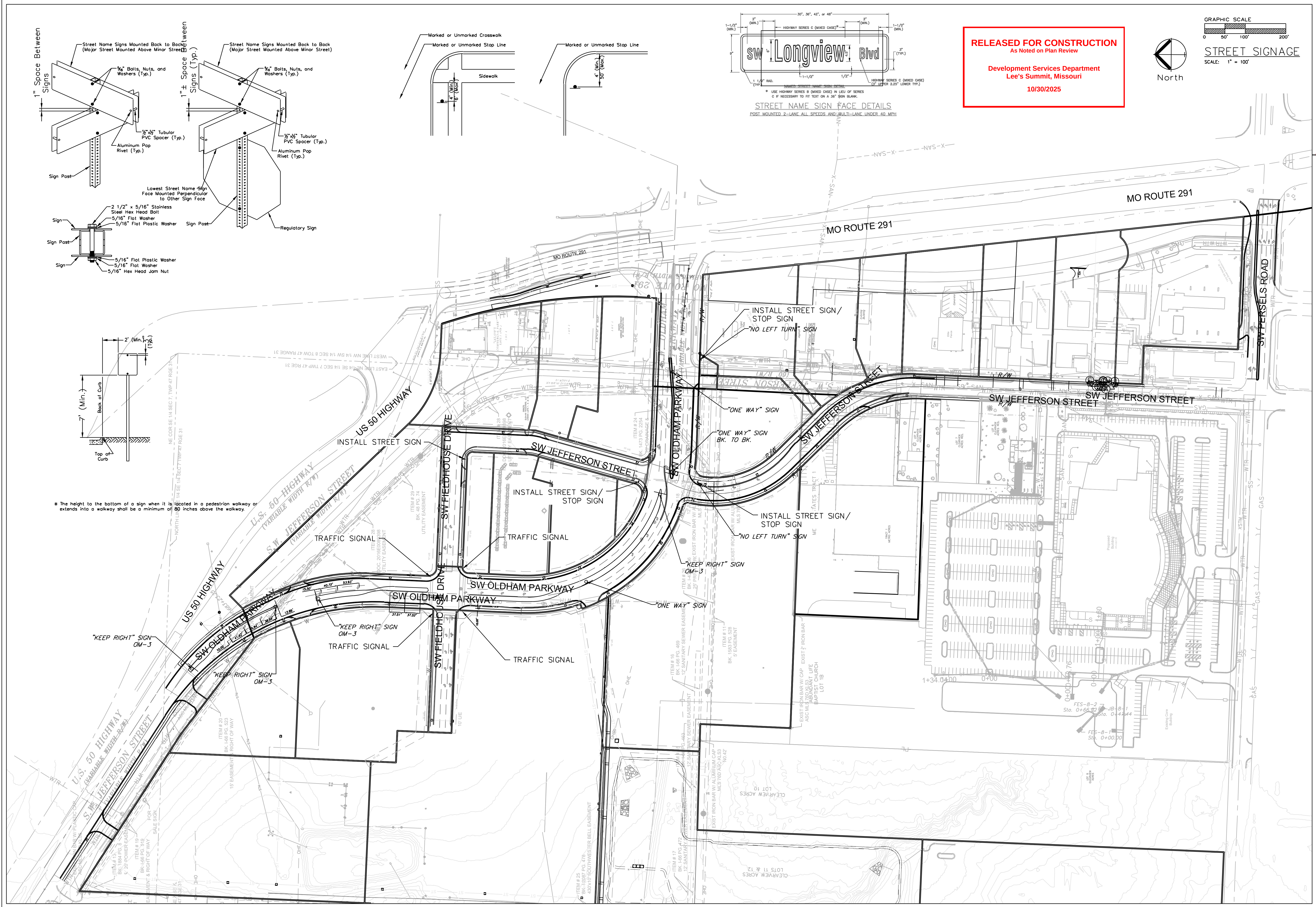
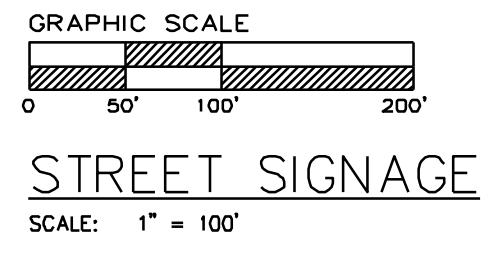
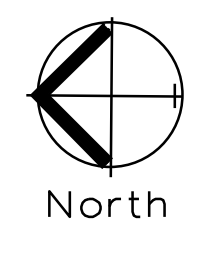


* The height to the bottom of a sign when it is located in a pedestrian walkway or extends into a walkway shall be a minimum of 80 inches above the walkway.



RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department
Lee's Summit, Missouri
10/30/2025

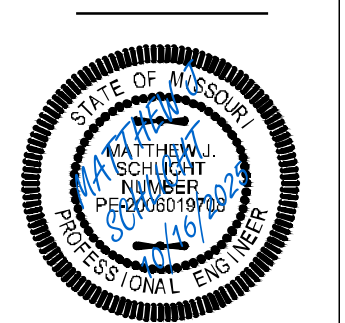


Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6284
Nebraska
Engineering CA2821

Project: MARKETPLACE, LS MO
Issue Date: November 6, 2024
Oldham Village
Lee's Summit, Jackson County, Missouri

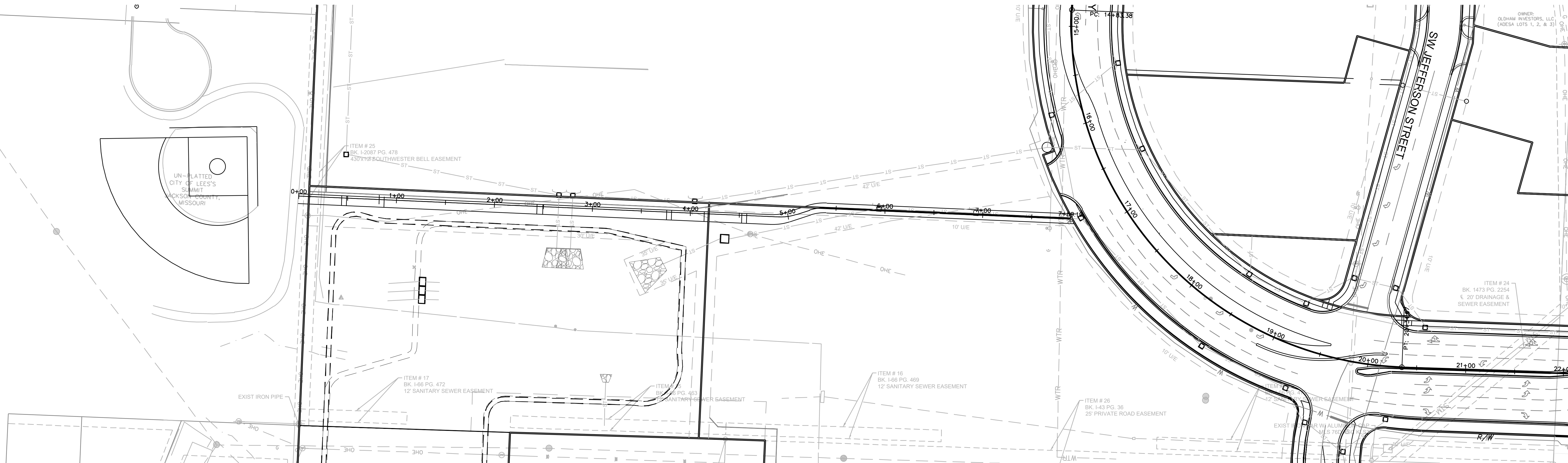
Project: MARKETPLACE, LS MO
Issue Date: November 6, 2024
Oldham Village
Lee's Summit, Jackson County, Missouri

Project: MARKETPLACE, LS MO
Issue Date: November 6, 2024
Oldham Village
Lee's Summit, Jackson County, Missouri

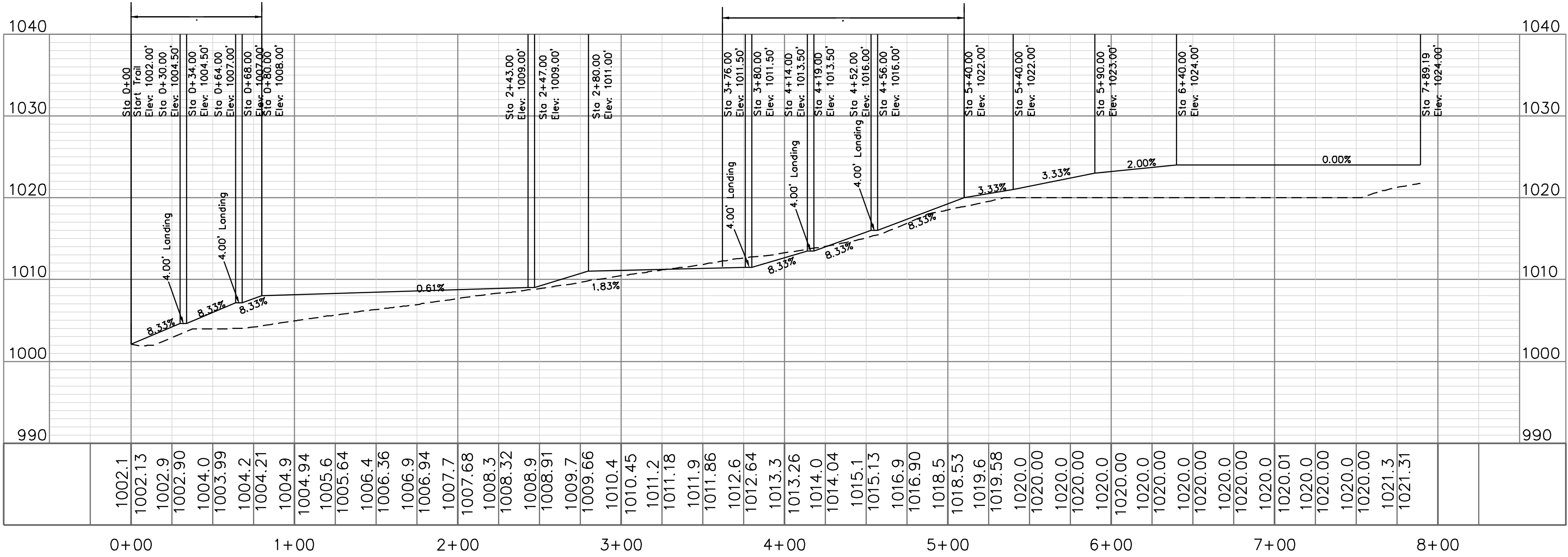


Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS	
REV. 12/10/2024	
REV. 1/2/2025	
REV. 2/6/2025	
REV. 3/5/2025	
REV. 3/24/2025	
REV. 4/15/2025	
REV. 10/16/2025	

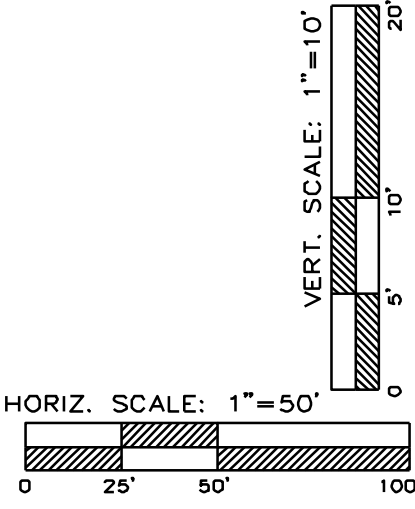
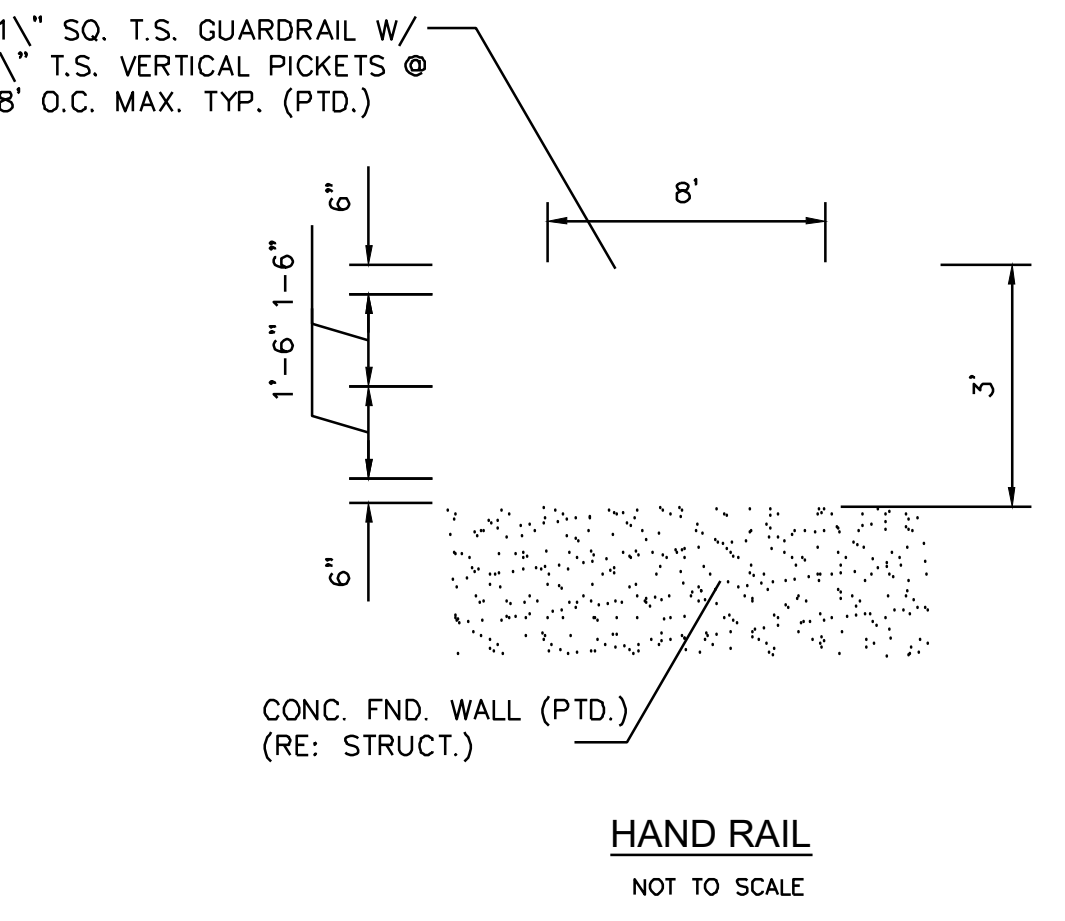


PARK TRAIL ACCESS



RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department
Lee's Summit, Missouri
10/30/2025



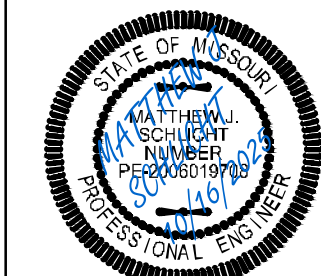
ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING
50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
P: (816) 623-9888 F: (816) 623-9849

Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

Project: OLDHAM VILLAGE
MARKETPLACE
LSMO
Issue Date: November 6, 2024

Trail Plan and Profile
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



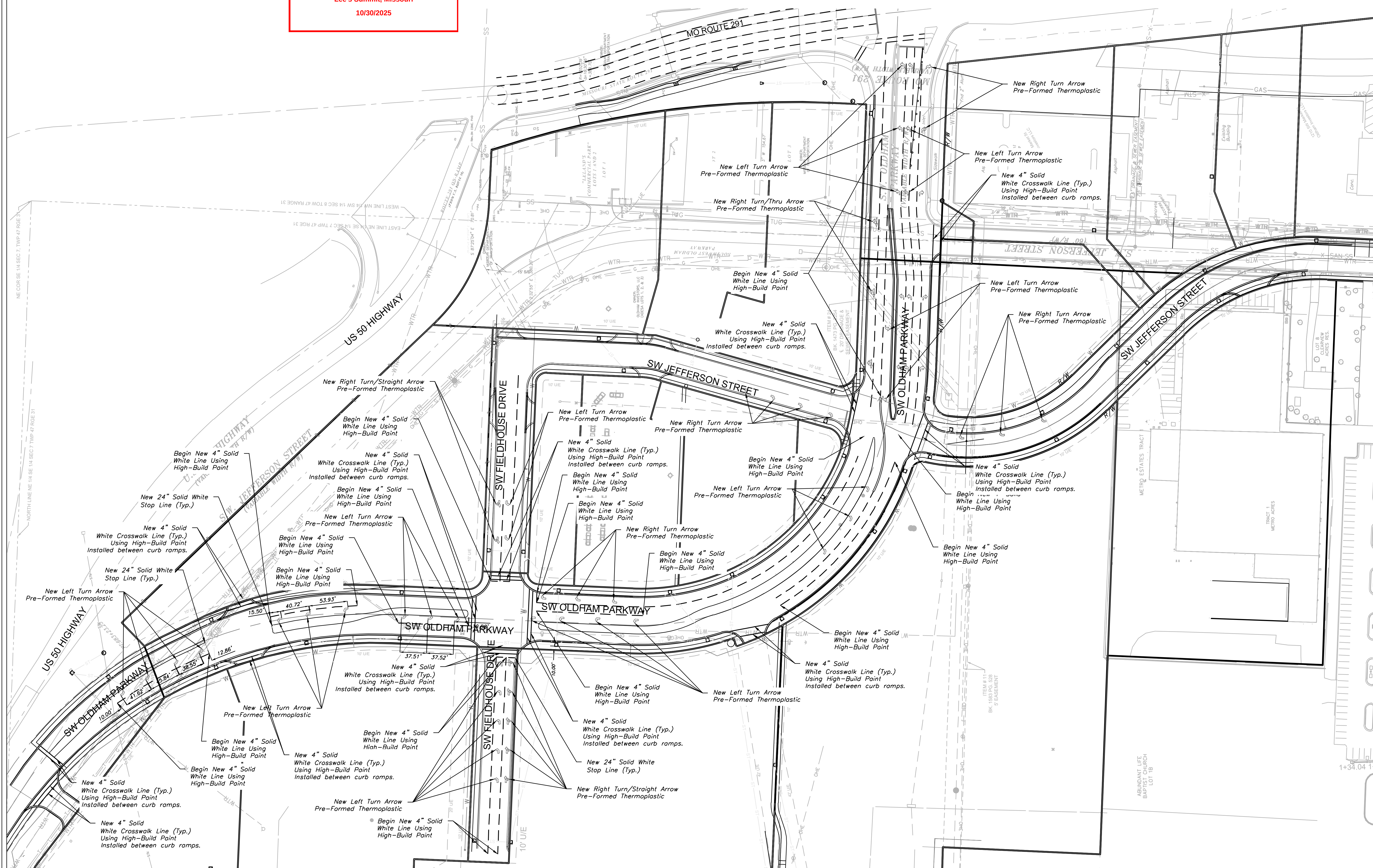
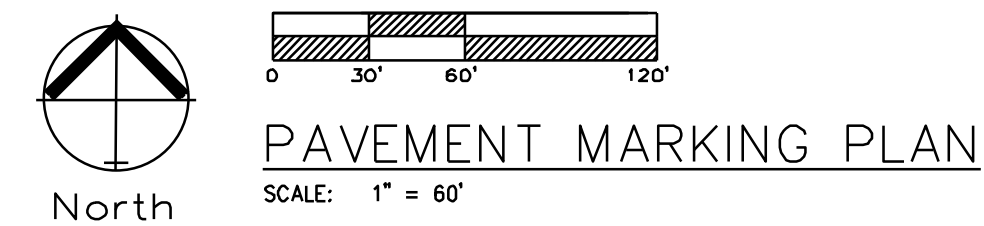
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS
REV. 12/10/2024
REV. 1/2/2025
REV. 2/6/2025
REV. 3/5/2025
REV. 3/24/2025
REV. 4/15/2025
REV. 10/16/2025

RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department
Lee's Summit, Missouri
10/30/2025

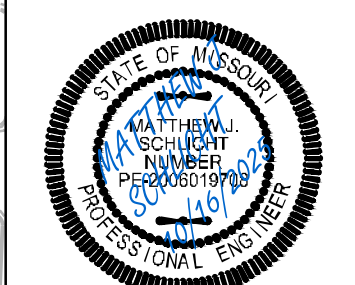
- Notes:
1. New Arrows Shall Be Preformed Thermoplastic.
 2. New Point Stripes Shall Be High Build Point In Accordance With City Standards and Specifications.



Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

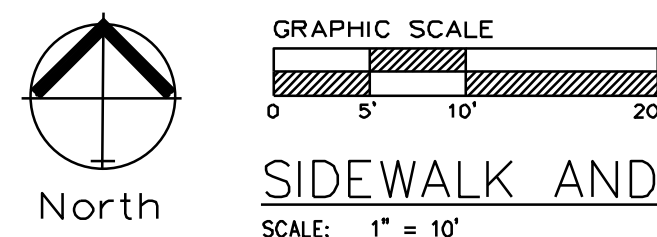
Project: Oldham Village
Location: Lee's Summit, Jackson County, Missouri
Issue Date: November 6, 2024

PAVEMENT MARKING PLAN
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



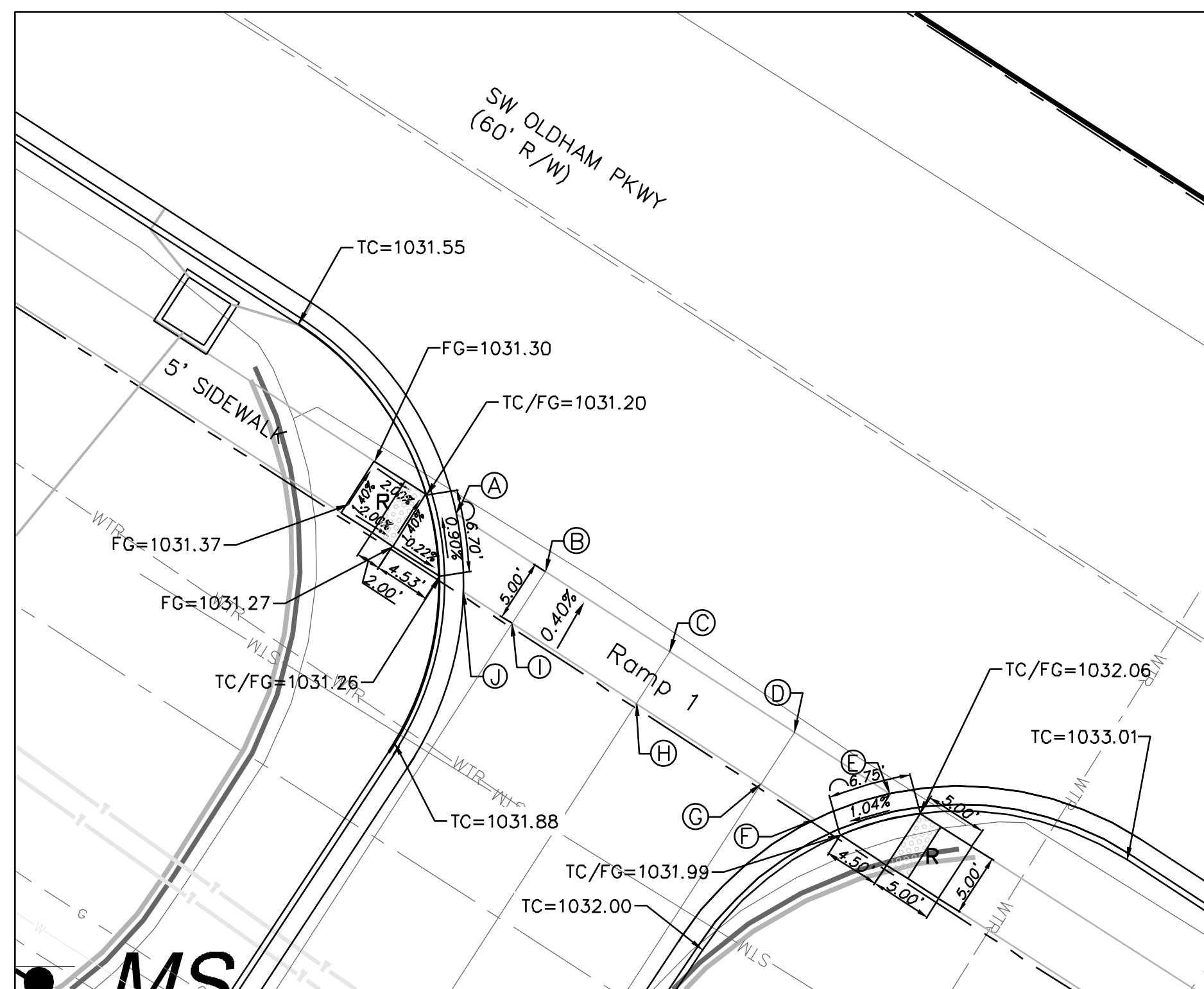
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS	
REV. 12/10/2024	
REV. 1/2/2025	
REV. 2/6/2025	
REV. 3/5/2025	
REV. 3/24/2025	
REV. 4/15/2025	
REV. 10/16/2025	

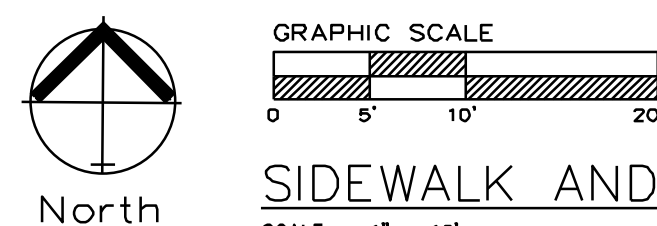


SIDEWALK AND INTERSECTION PLAN

SCALE: 1" = 10'

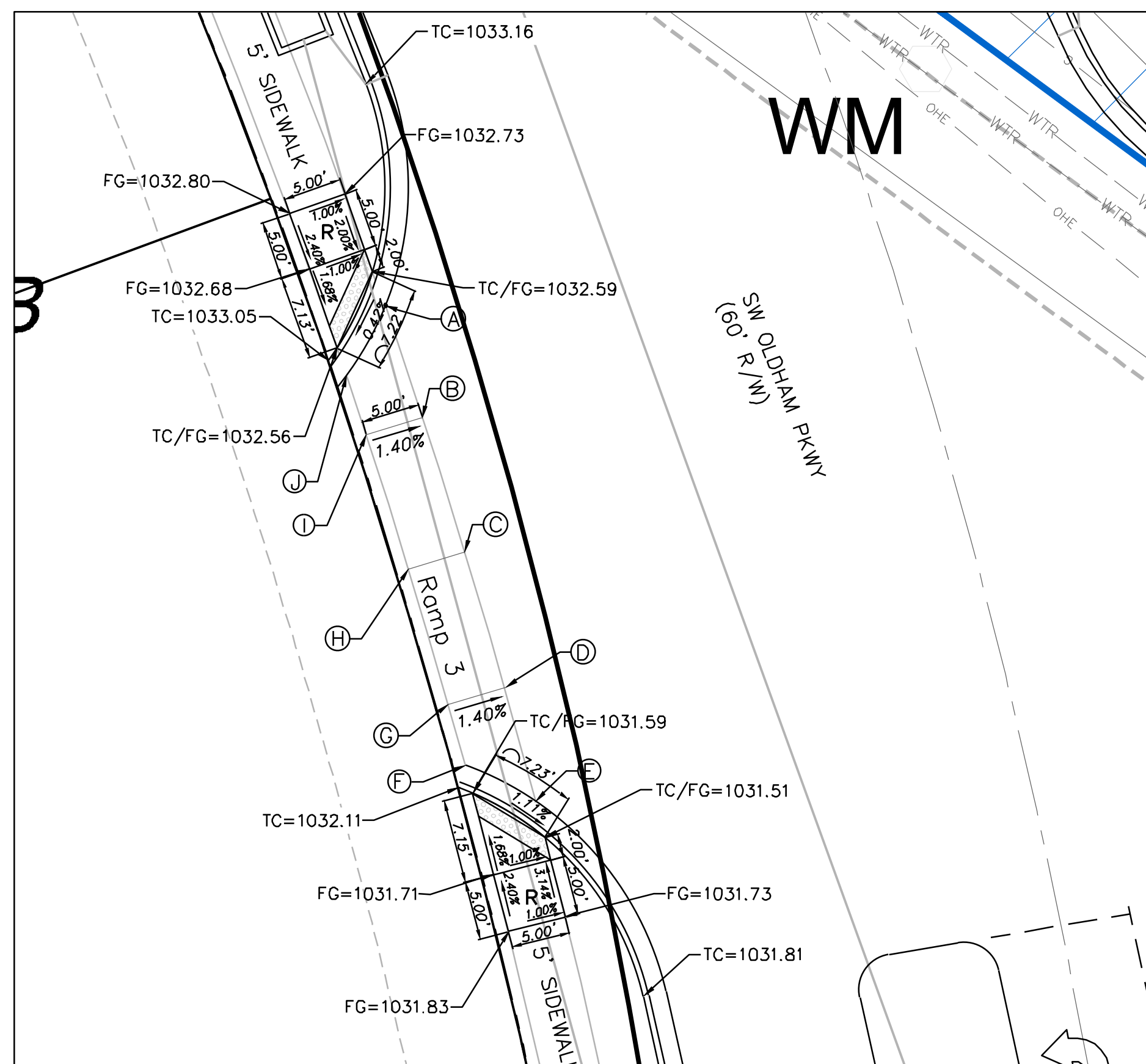


DETAIL 1



SIDEWALK AND INTERSECTION PLAN

SCALE: 1" = 10'



DETAIL 3

Legend:

EX TC = Existing Top of Curb

EX FG = Existing Finished Grade

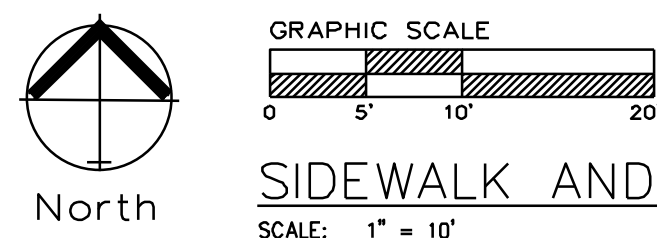
FG = Finished Grade

TC = Top of Curb

TC/FG = Top of Curb/Finished Grade

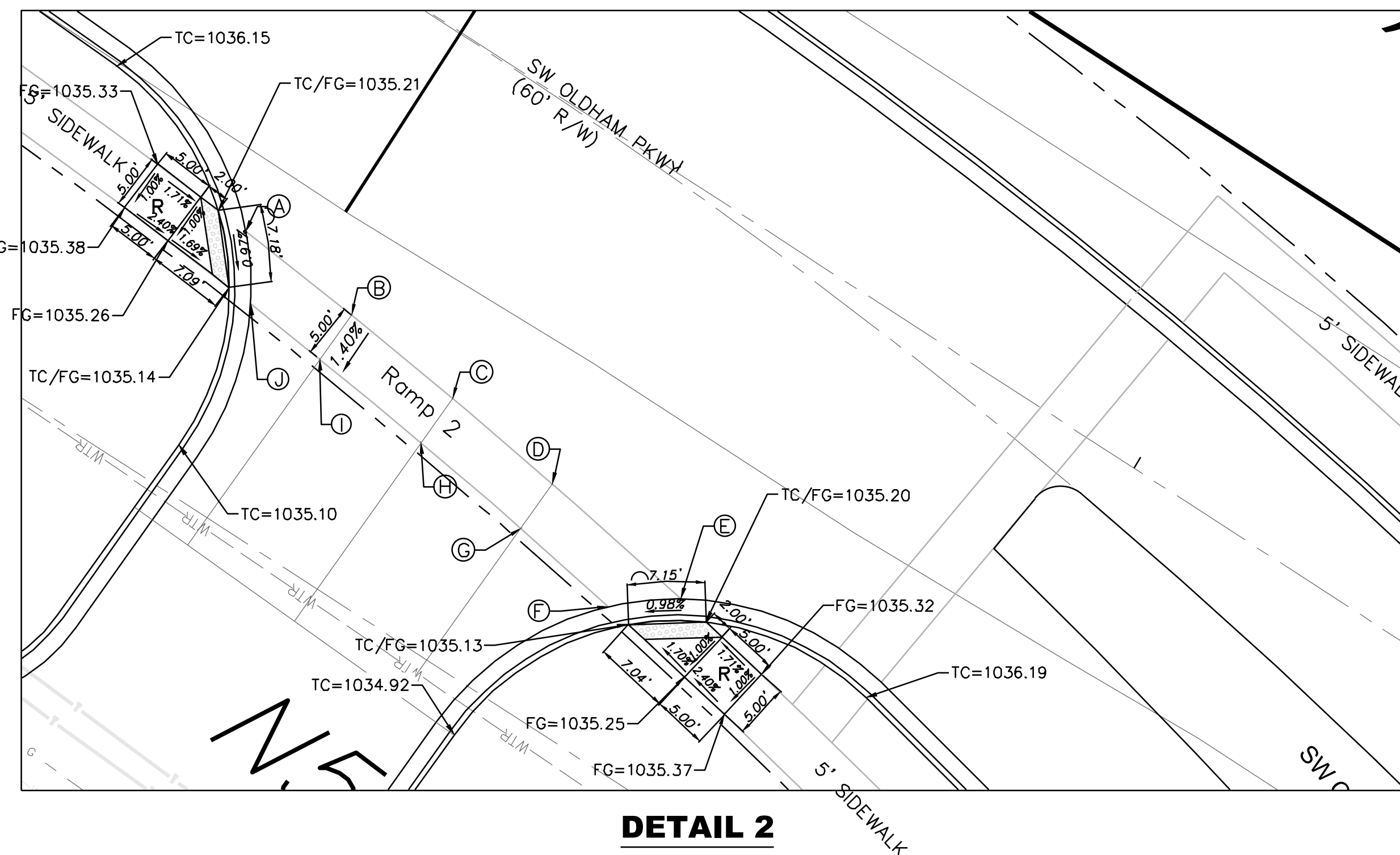
Detectable Warning

SPOT ELEVATION TABLE				
Spot	Ramp 1 Elevation	Ramp 2 Elevation	Ramp 3 Elevation	Ramp 4 Elevation
A	1031.20	1035.21	1032.59	1035.21
B	1031.38	1035.21	1032.34	1035.21
C	1031.62	1035.21	1032.05	1035.21
D	1031.87	1035.20	1031.76	1035.20
E	1032.06	1035.20	1031.51	1035.20
F	1031.99	1035.13	1031.59	1035.13
G	1031.88	1035.13	1031.74	1035.13
H	1031.62	1035.14	1032.08	1035.14
I	1031.36	1035.14	1032.41	1035.14
J	1031.26	1035.14	1032.56	1035.14



SIDEWALK AND INTERSECTION PLAN

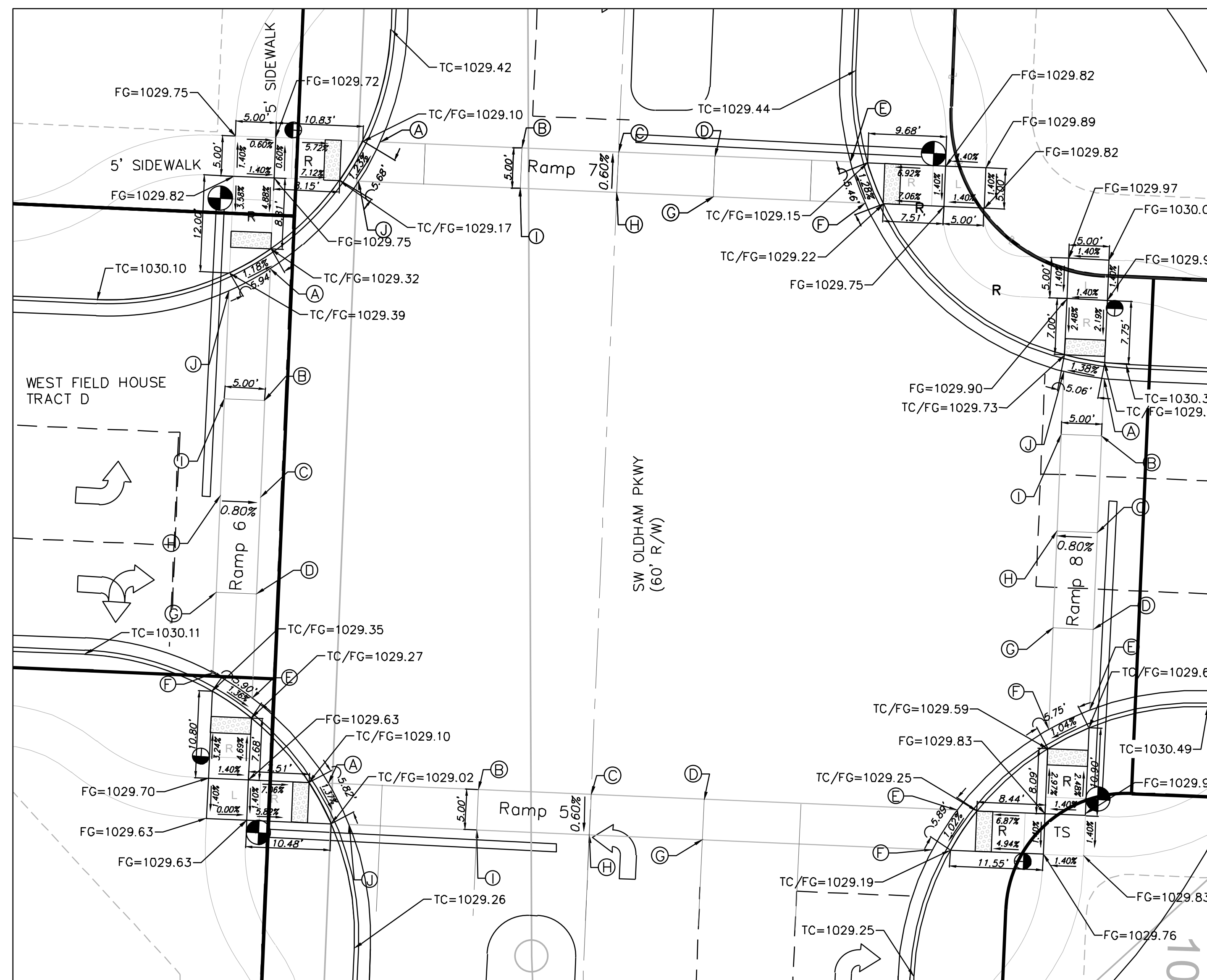
SCALE: 1" = 10'

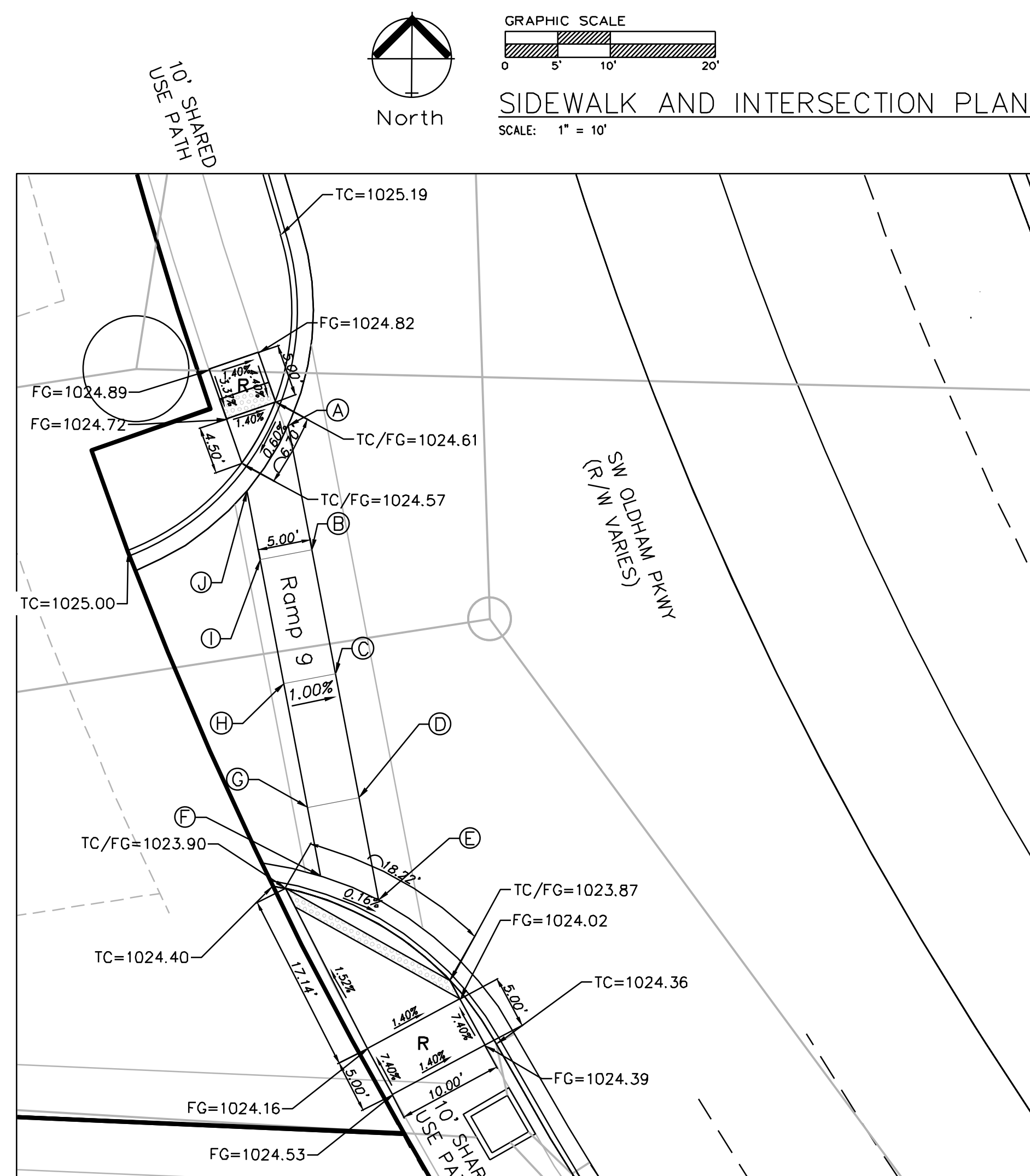


DETAIL 2

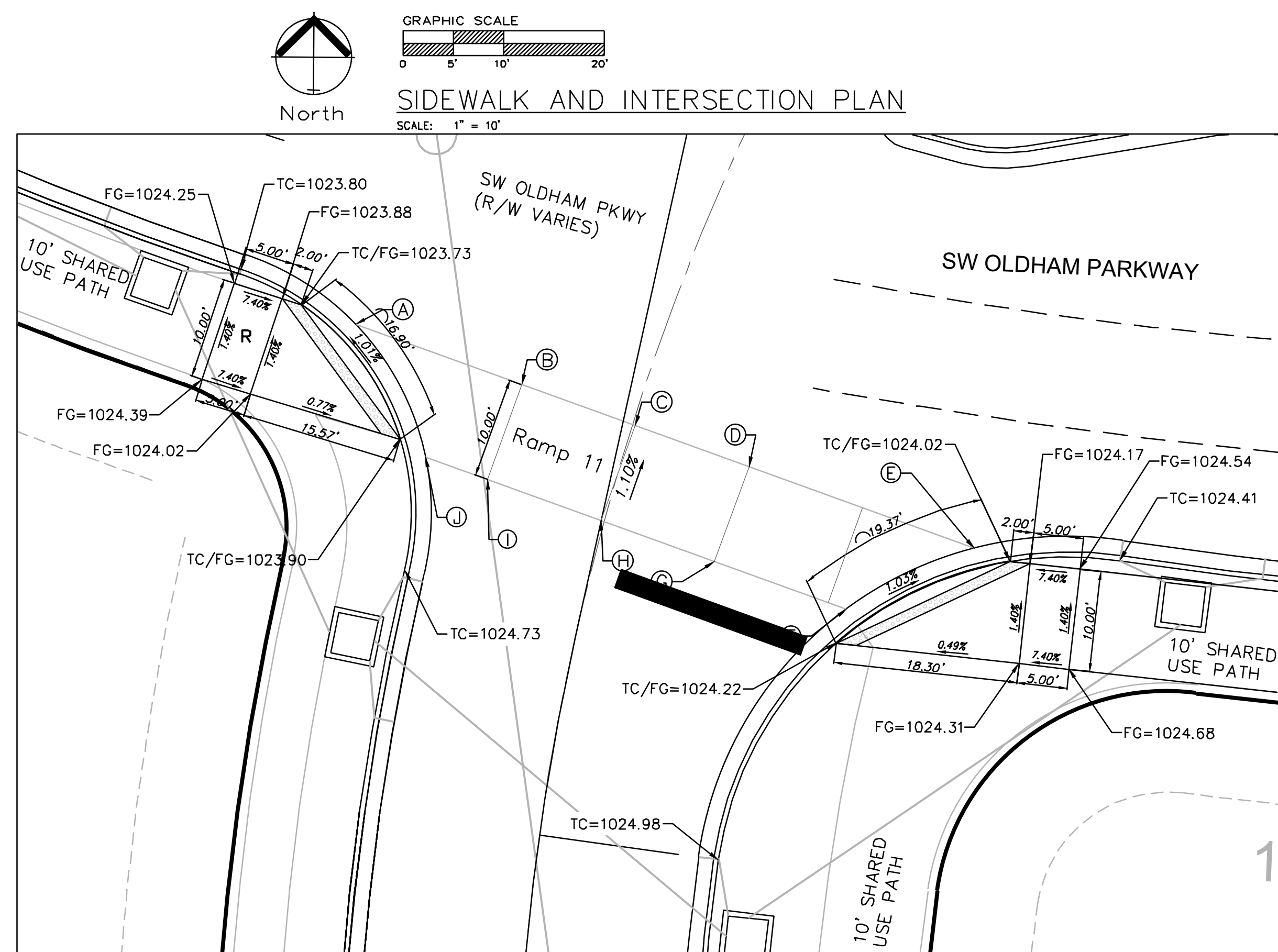
SPOT ELEVATION TABLE				
Spot	Ramp 5 Elevation	Ramp 6 Elevation	Ramp 7 Elevation	Ramp 8 Elevation
A	1029.10	1029.32	1029.10	1029.80
B	1029.21	1029.63	1029.27	1029.95
C	1029.30	1029.86	1029.39	1030.21
D	1029.27	1029.58	1029.29	1029.90
E	1029.25	1029.27	1029.15	1029.65
F	1029.19	1029.35	1029.22	1029.59
G	1029.23	1029.60	1029.34	1029.87
H	1029.27	1029.90	1029.41	1030.14
I	1029.15	1029.66	1029.32	1029.89
J	1029.02	1029.39	1029.17	1029.73

DETAIL 4





DETAIL 5



DETAIL 7

Legend:

EX TC = Existing Top of Curb

EX FG = Existing Finished Grade

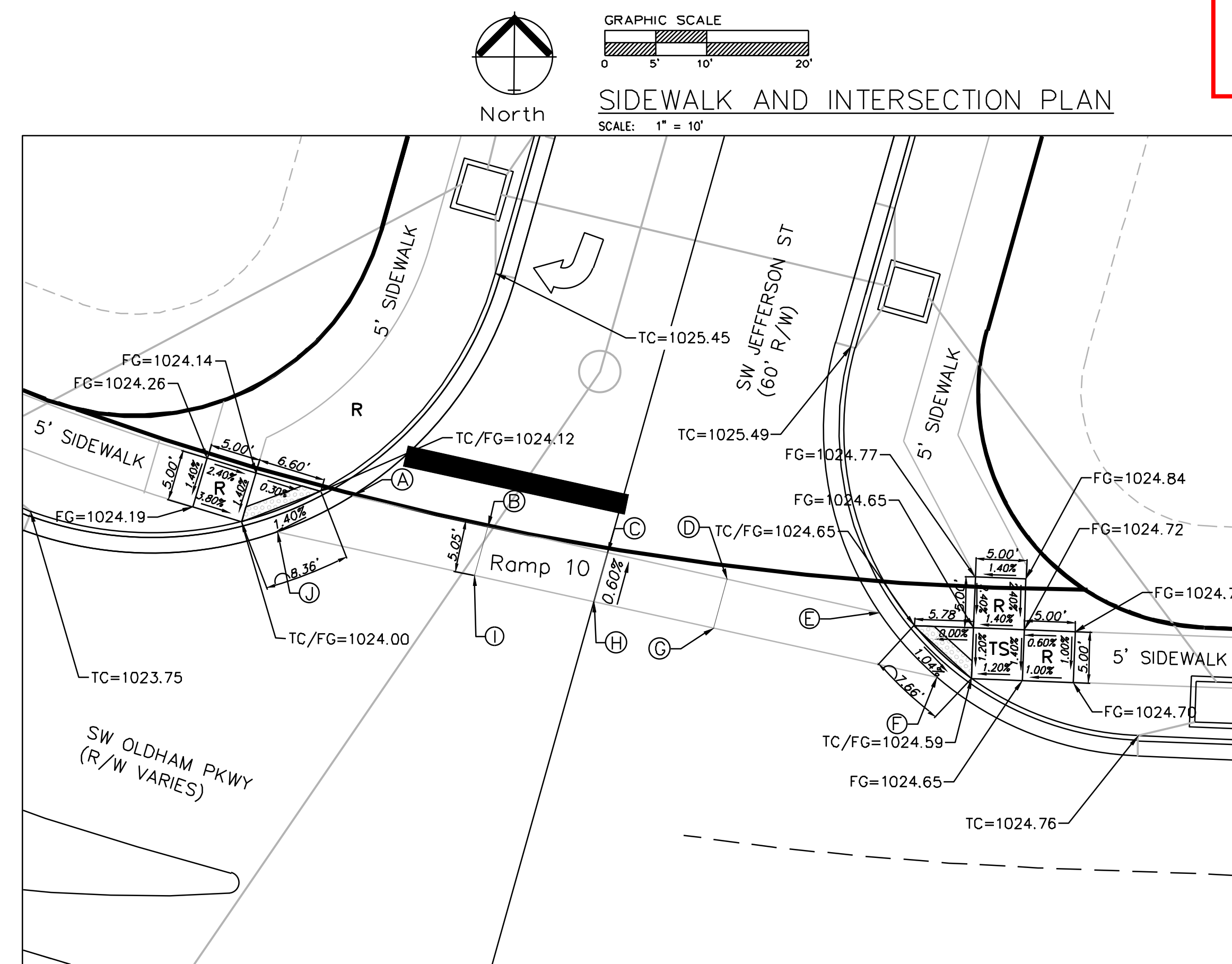
FG = Finished Grade

TC = Top of Curb

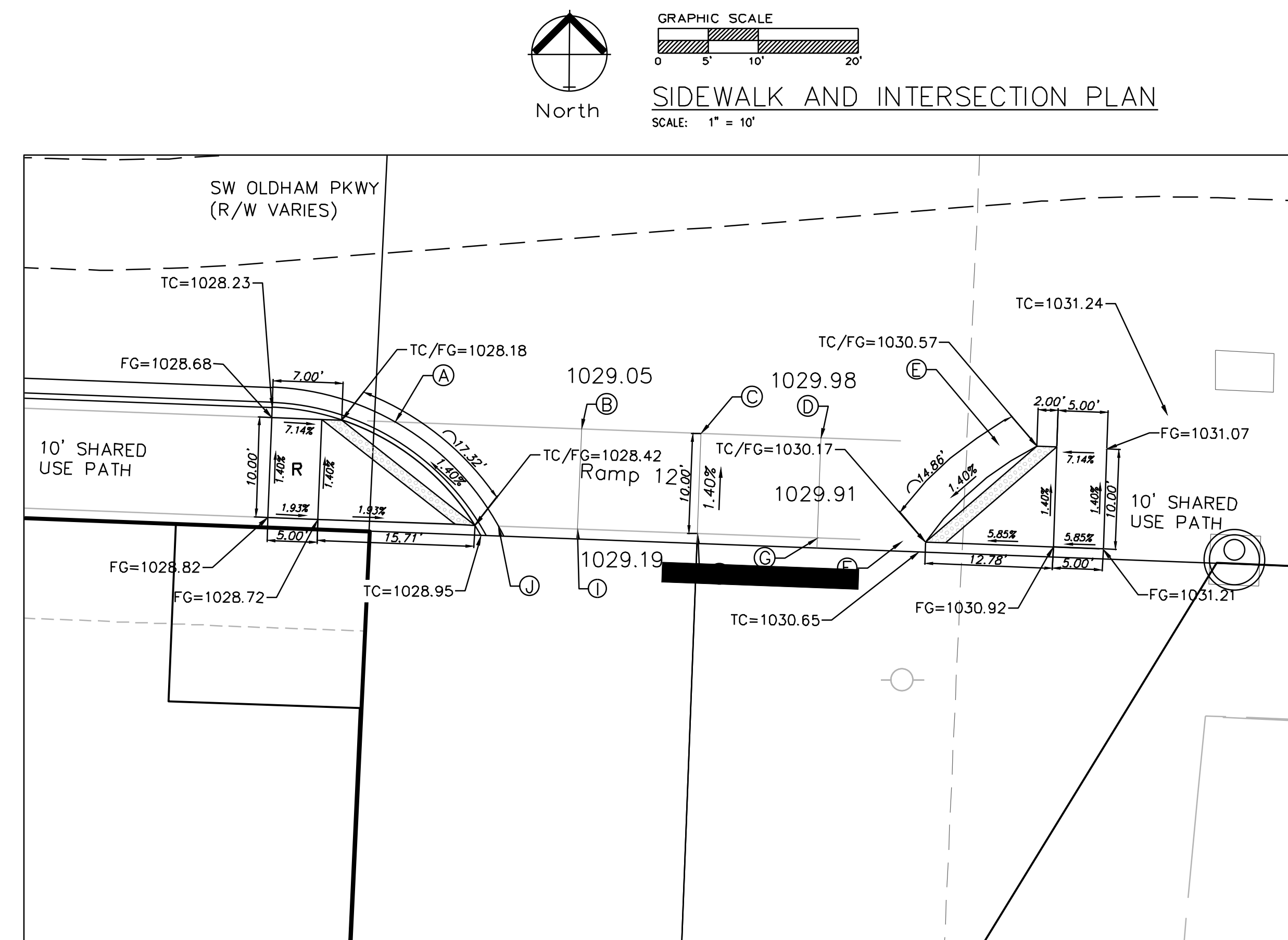
TC/FG = Top of Curb/Finished Grade

Detectable Warning

SPOT ELEVATION TABLE				
Spot	Ramp 9 Elevation	Ramp 10 Elevation	Ramp 11 Elevation	Ramp 12 Elevation
A	1024.61	1024.12	1023.73	1028.18
B	1024.62	1024.57	1024.14	1029.05
C	1024.64	1024.94	1024.42	1029.58
D	1024.23	1024.83	1024.29	1029.98
E	1023.89	1024.65	1024.02	1030.57
F	1023.90	1024.59	1024.22	1030.17
G	1024.18	1024.77	1024.39	1029.91
H	1024.69	1024.85	1024.53	1029.65
I	1024.61	1024.54	1024.12	1029.19
J	1024.57	1024.00	1023.90	1028.95



DETAIL 6



DETAIL 8

182

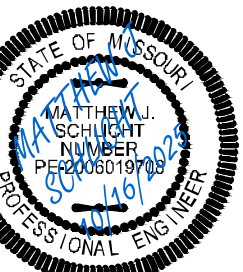
Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

OLDHAM
MARKETPLACE,
LSMO

Issue Date:
November 5, 2024

Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



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

REVISIONS

REV. 12/10/2024
REV. 1/2/2025
REV. 2/6/2025
REV. 3/5/2025
REV. 3/24/2025
REV. 4/15/2025
REV. 10/16/2025

C.217

Legend:

EX TC = Existing Top of Curb

EX FG = Existing Finished Grade

FG = Finished Grade

$TC = \text{Top of Curb}$

TC/FG = Top of Curb/Finished Grade

ME = Match Existing



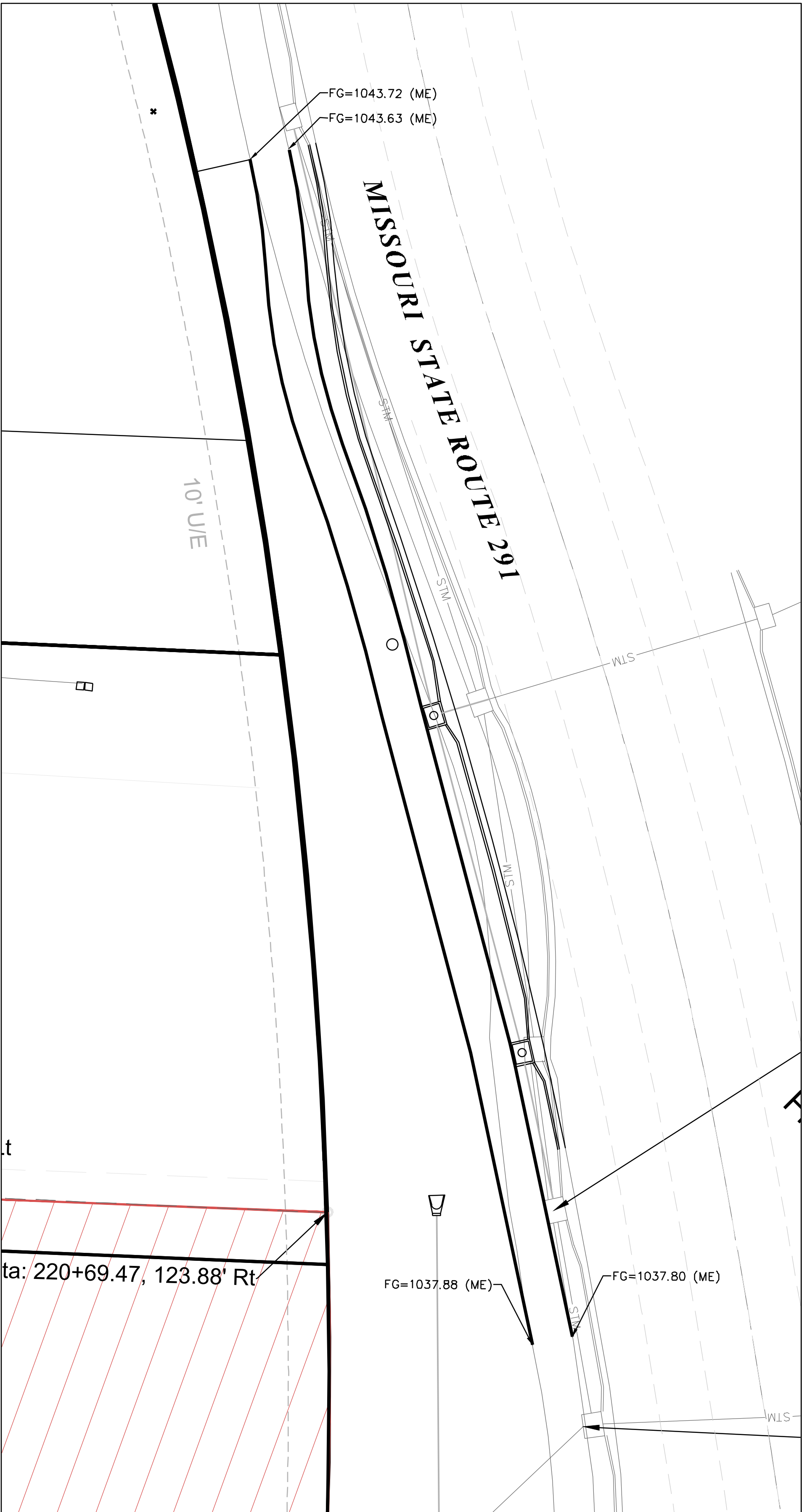
Detectable Warning



GRAPHIC SCALE

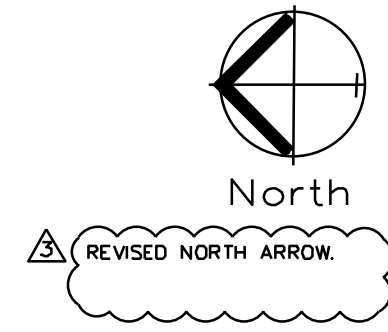
SIDEWALK AND INTERSECTION PLAN

SCALE: 1" = 20'

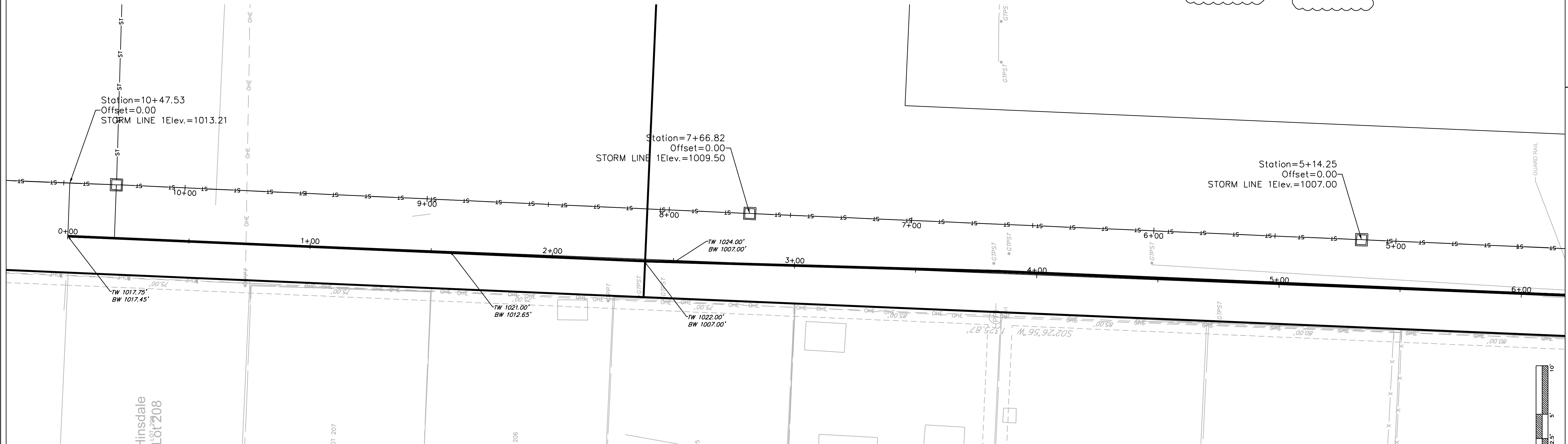
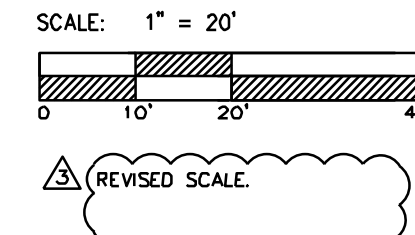


DETAIL 9

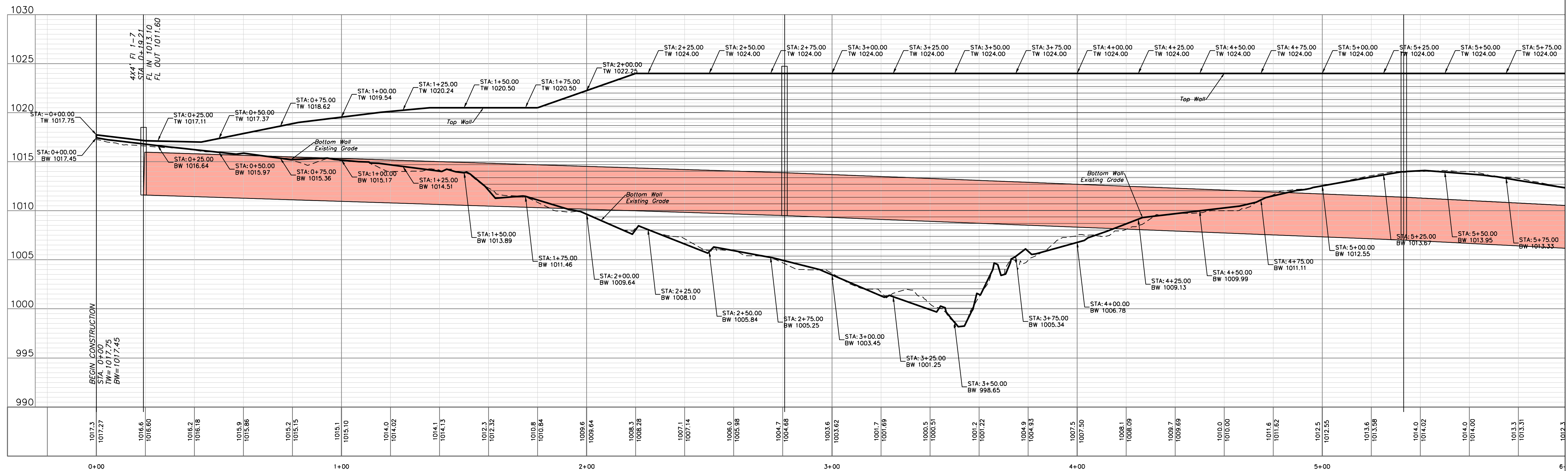
NOTE:
RETAINING WALL SHALL BE DESIGNED
BY A DESIGN PROFESSIONAL
LICENSED IN THE STATE OF
MISSOURI.



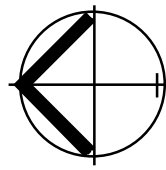
RETAINING WALL PLAN AND PROFILE



RETAINING WALL 1



NOTE:
RETAINING WALL SHALL BE DESIGNED
BY A DESIGN PROFESSIONAL
LICENSED IN THE STATE OF
MISSOURI.



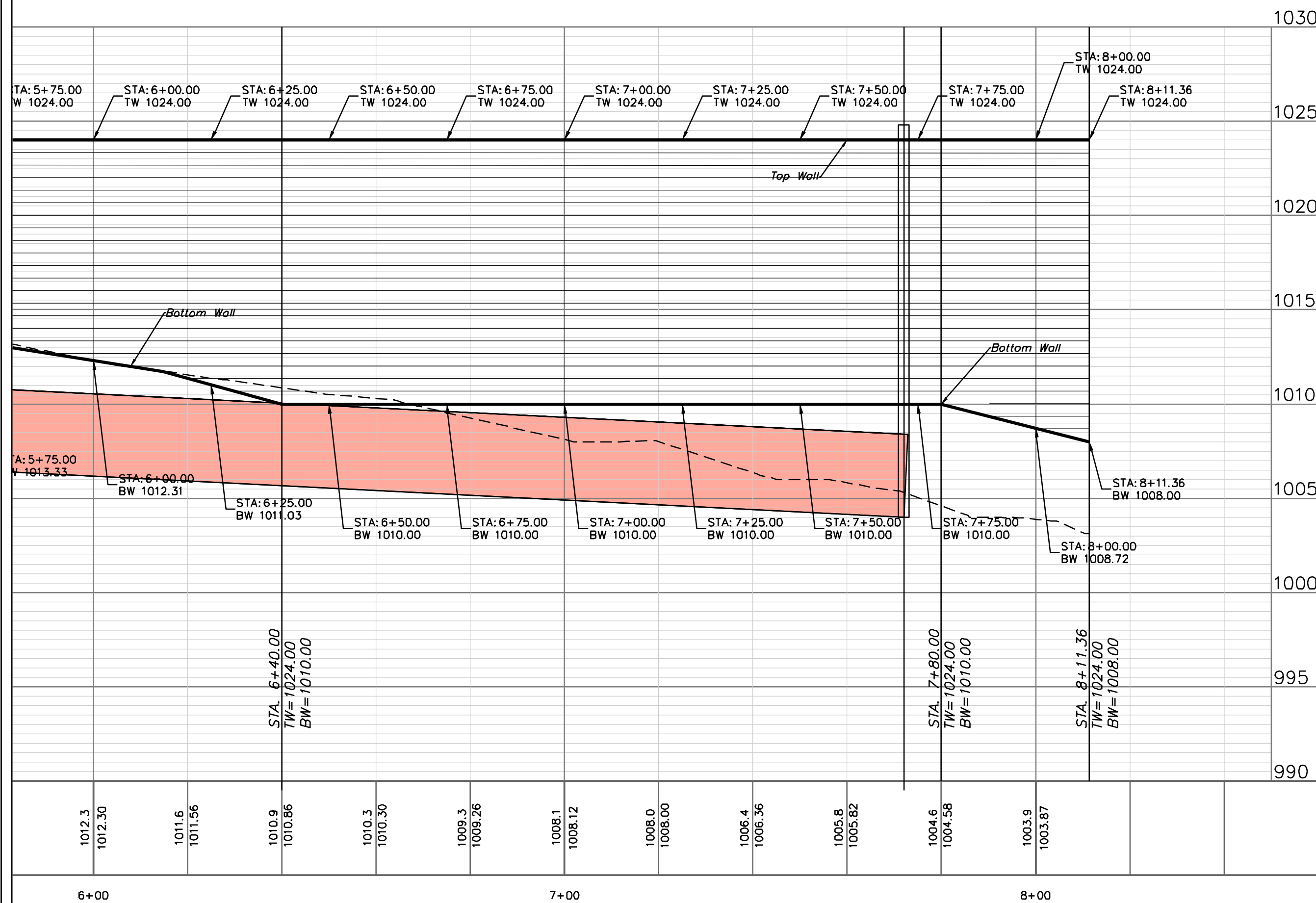
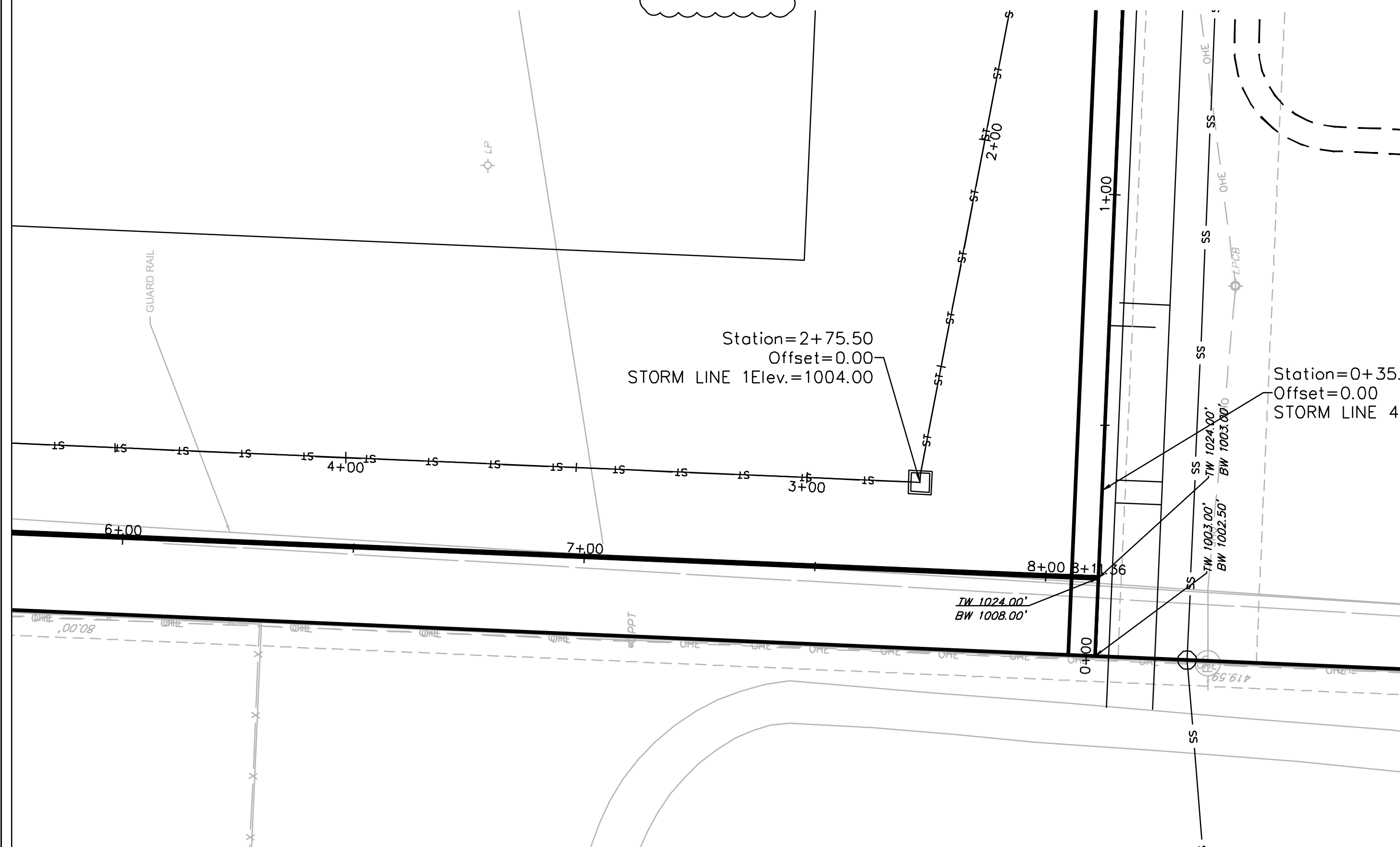
RETAINING WALL PLAN AND PROFILE

SCALE: 1" = 20'
0 10' 20' 40'

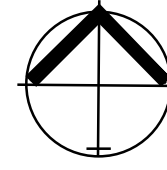
REVISED NORTH ARROW

Station=2+75.50
Offset=0.00
STORM LINE 1 Elev.=1004.00

Station=0+35.
Offset=0.00
STORM LINE 4

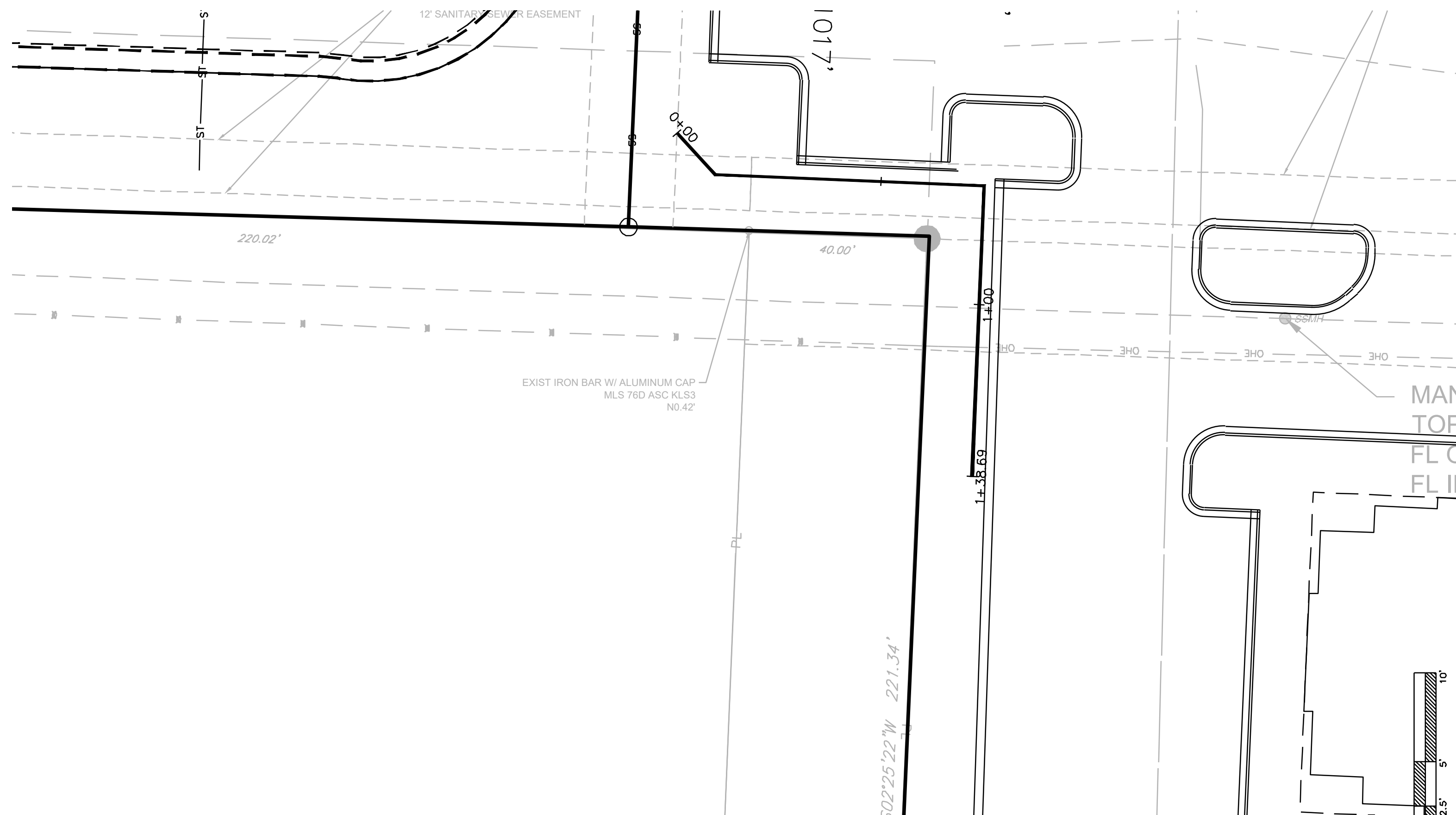


NOTE:
RETAINING WALL SHALL BE DESIGNED
BY A DESIGN PROFESSIONAL
LICENSED IN THE STATE OF
MISSOURI.

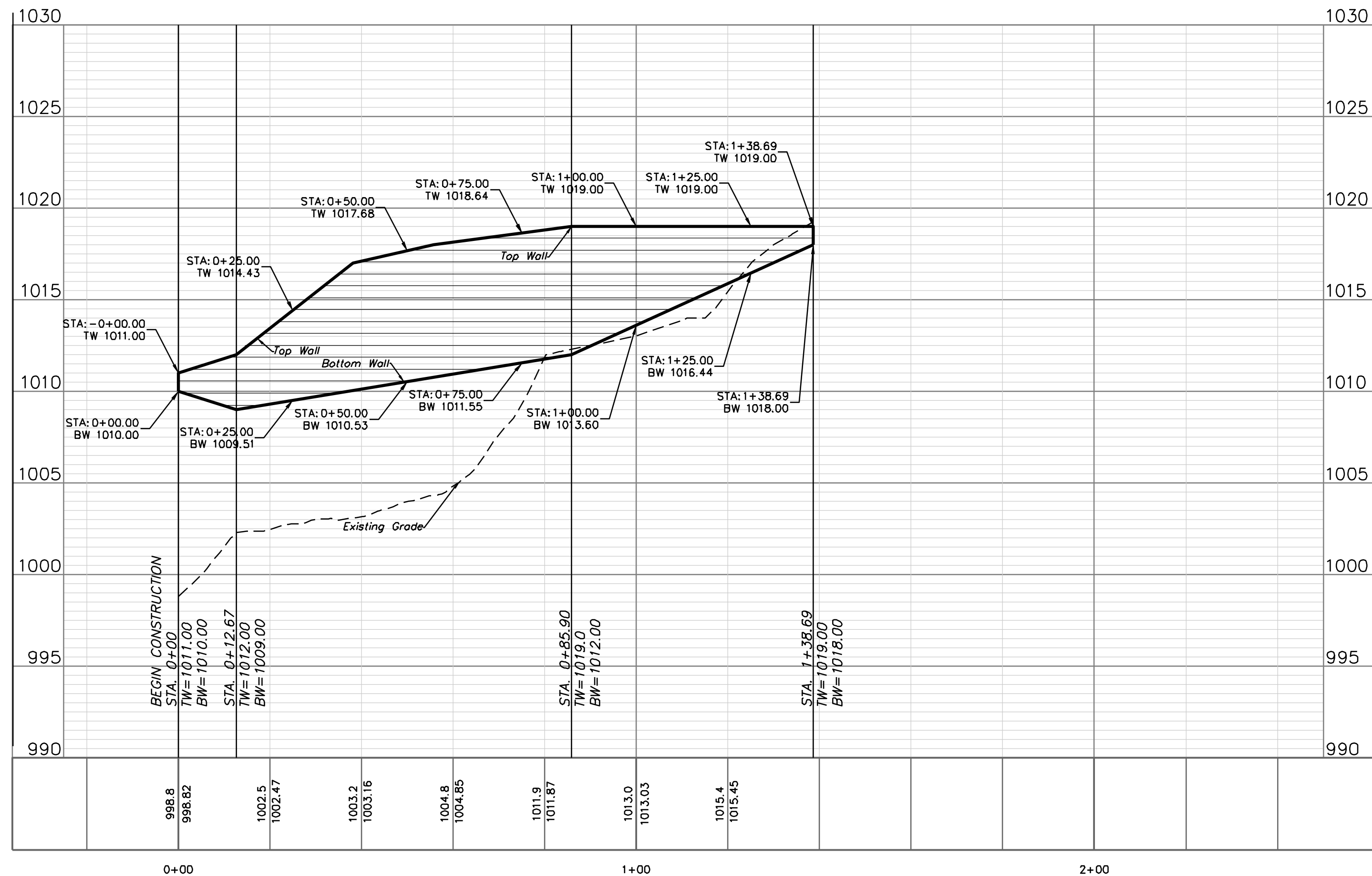


RETAINING WALL PLAN AND PROFILE

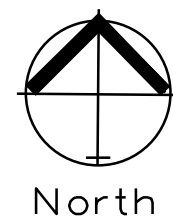
SCALE: 1" = 20'
0 10' 20' 40'



RETAINING WALL 3

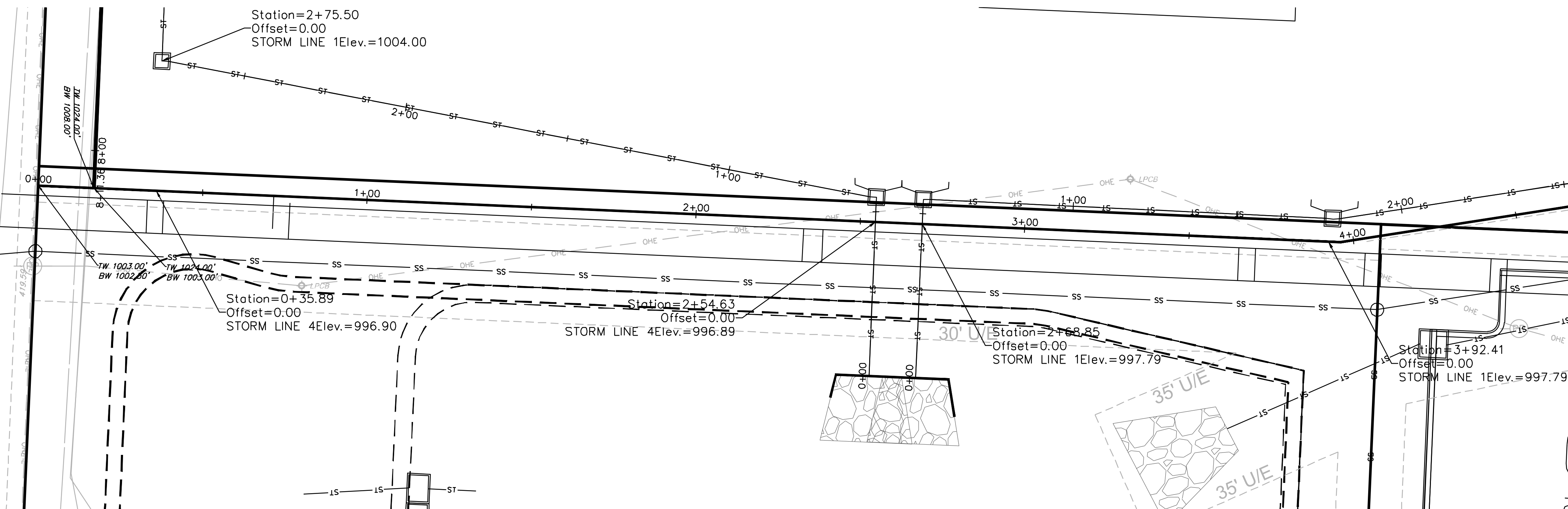


NOTE:
RETAINING WALL SHALL BE DESIGNED
BY A DESIGN PROFESSIONAL
LICENSED IN THE STATE OF
MISSOURI.

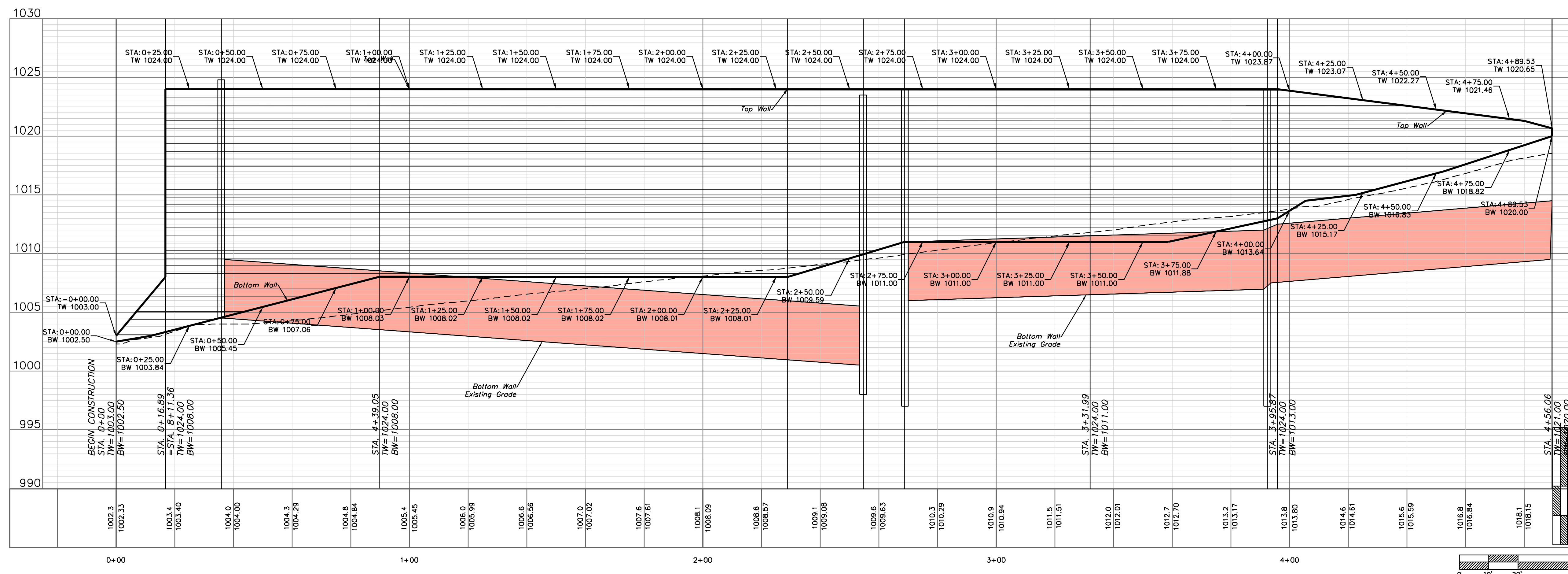


RETAINING WALL PLAN AND PROFILE

SCALE: 1" = 20'
0 10' 20' 40'



RETAINING WALL 2



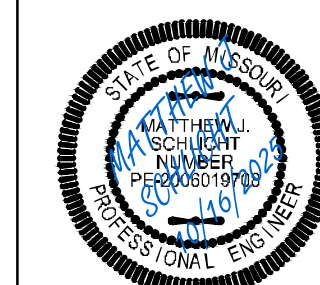


Professional Registration
Missouri
Engineering 2005020186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

Project:
MARKETPLACE,
LSMO
Issue Date:
November 5, 2024

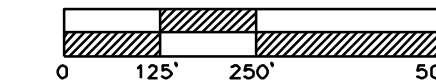
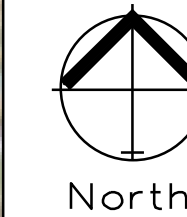
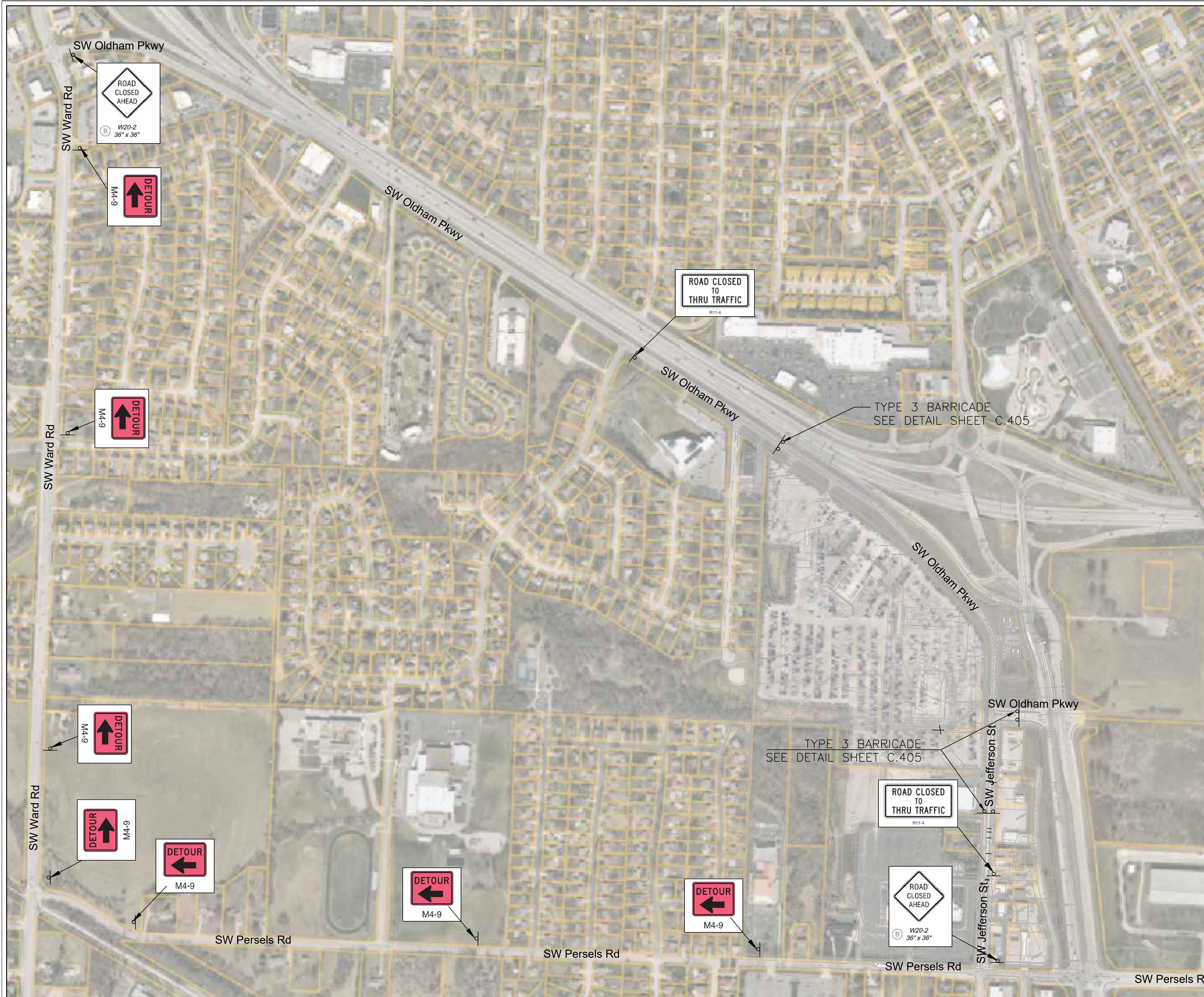
TRAFFIC CONTROL PLAN GENERAL LAYOUT
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



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

REVISIONS

- REV. 12/10/2024
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- REV. 3/5/2025
- REV. 3/24/2025
- REV. 4/15/2025
- REV. 10/16/2025



TRAFFIC CONTROL PLAN
GENERAL LAYOUT

SCALE: 1" = 250'

NOTES:

1. ALL SIGNS TO BE PLACED PER MUTCD MANUAL.
2. THE ROAD SHALL BE CLOSED AND WORK ONLY BE ALLOWED BETWEEN 9:00 A.M. AND 4:00 P.M., MONDAY THROUGH FRIDAY.
3. THE STREET TO BE PLATED DURING NON-WORKING HOURS AND THE ROAD REOPENED FOR NORMAL TRAFFIC.
4. GIVEN THE DEPTH OF THE TRENCH, THE CONTRACTOR MAY DECIDE TO DO A COMPACTED BACKFILL, COMPACTION TESTING AND REPORTS WILL BE REQUIRED.
5. A RIGHT-OF-WAY AND TRAFFIC CONTROL PERMIT APPLICATION WILL NEED TO BE COMPLETED PRIOR TO COMMENCEMENT OF THE WORK.
6. A PRE-CONSTRUCTION MEETING IS REQUIRED BETWEEN THE CONTRACTOR AND THE CITY'S FIELD ENGINEERING INSPECTOR PRIOR TO COMMENCEMENT OF ANY WORK.
7. CONTRACTOR TO NOTIFY CITY 14 CALENDAR DAYS BEFORE CLOSURE.

10/30/2025

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



Professional Registration
Missouri
Engineering 20050202186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

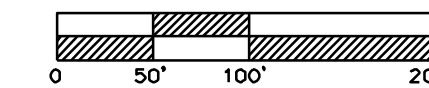
Project: OLDHAM MARKETPLACE, LS MO
Issue Date: November 6, 2024

TRAFFIC CONTROL PLAN
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



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

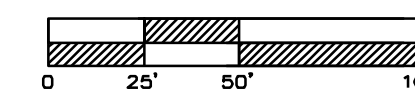
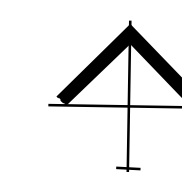
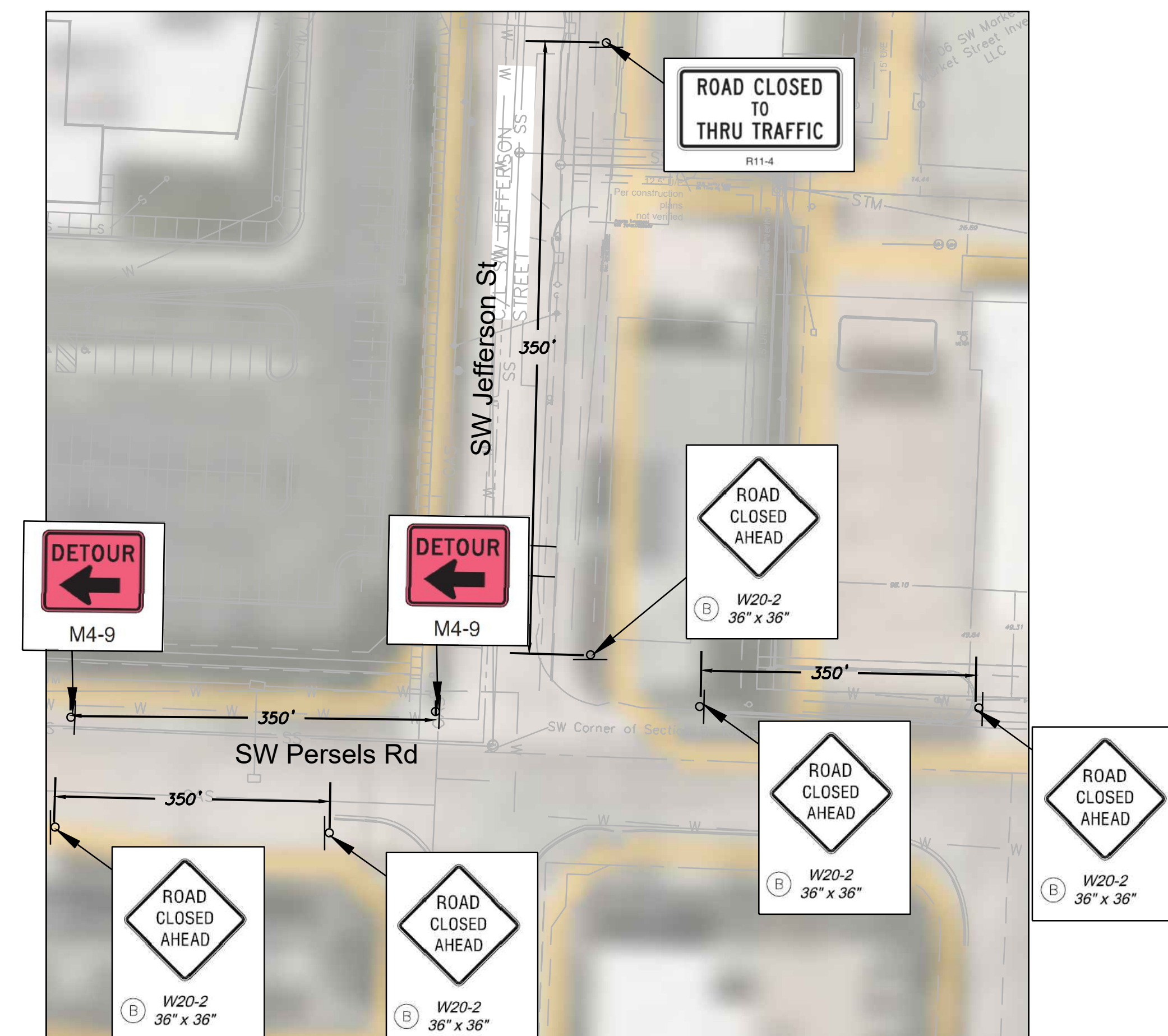
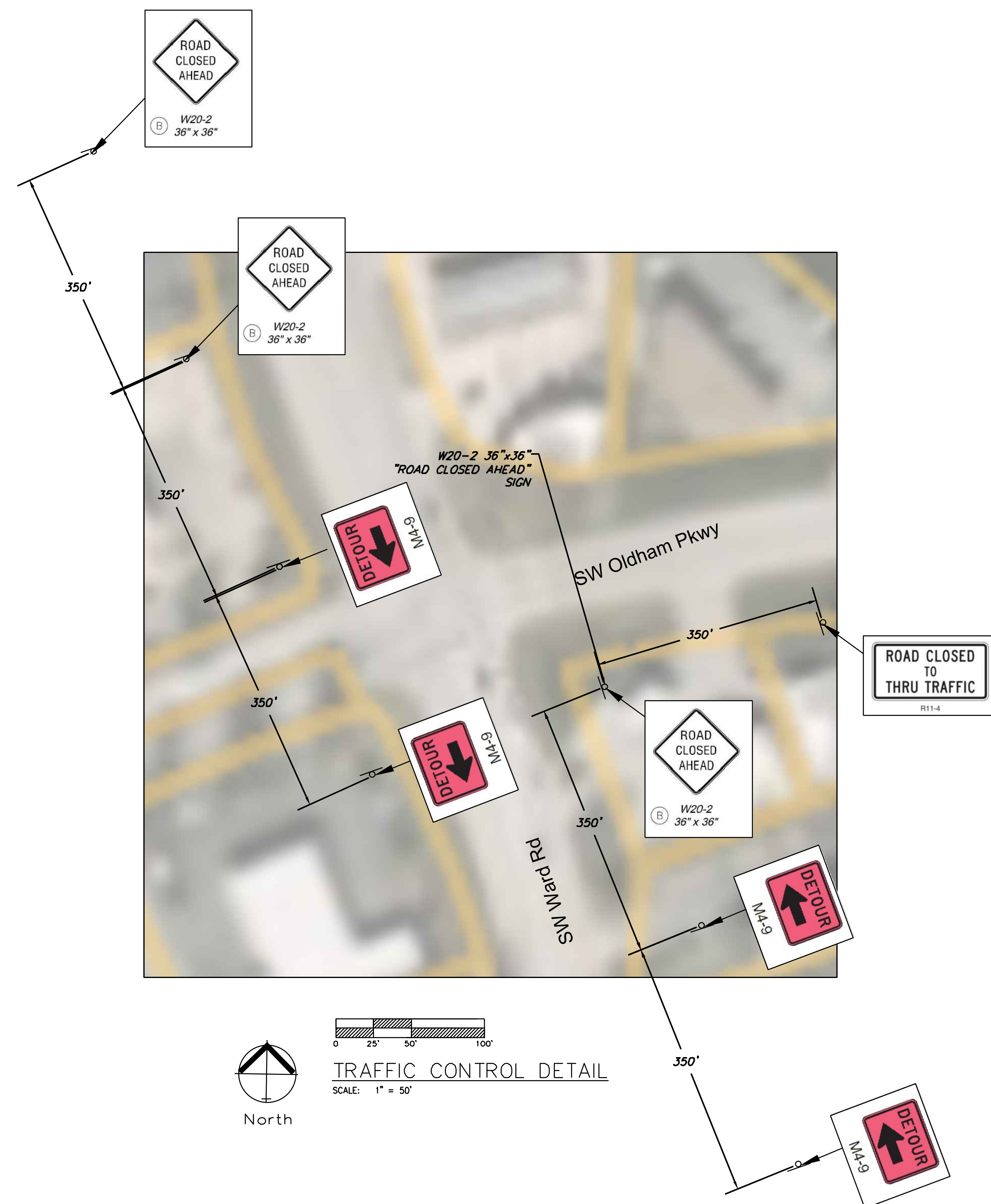
REVISIONS
REV. 12/10/2024
REV. 1/2/2025
REV. 2/6/2025
REV. 3/5/2025
REV. 3/24/2025
REV. 4/15/2025
REV. 10/16/2025



TRAFFIC CONTROL PLAN
SCALE: 1" = 100'

NOTES:

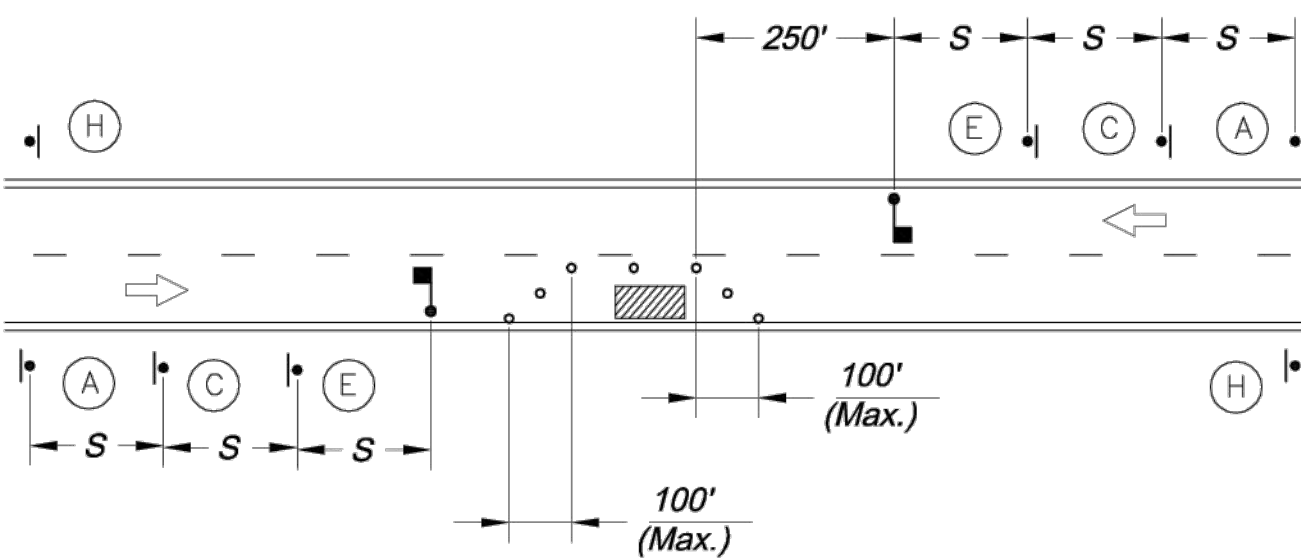
1. ALL SIGNS TO BE PLACED PER MUTCD MANUAL.
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4. GIVEN THE DEPTH OF THE TRENCH, THE CONTRACTOR MAY DECIDE TO DO A COMPACTED BACKFILL, COMPACTION TESTING AND REPORTS WILL BE REQUIRED.
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6. A PRE-CONSTRUCTION MEETING IS REQUIRED BETWEEN THE CONTRACTOR AND THE CITY'S FIELD ENGINEERING INSPECTOR PRIOR TO COMMENCEMENT OF ANY WORK.



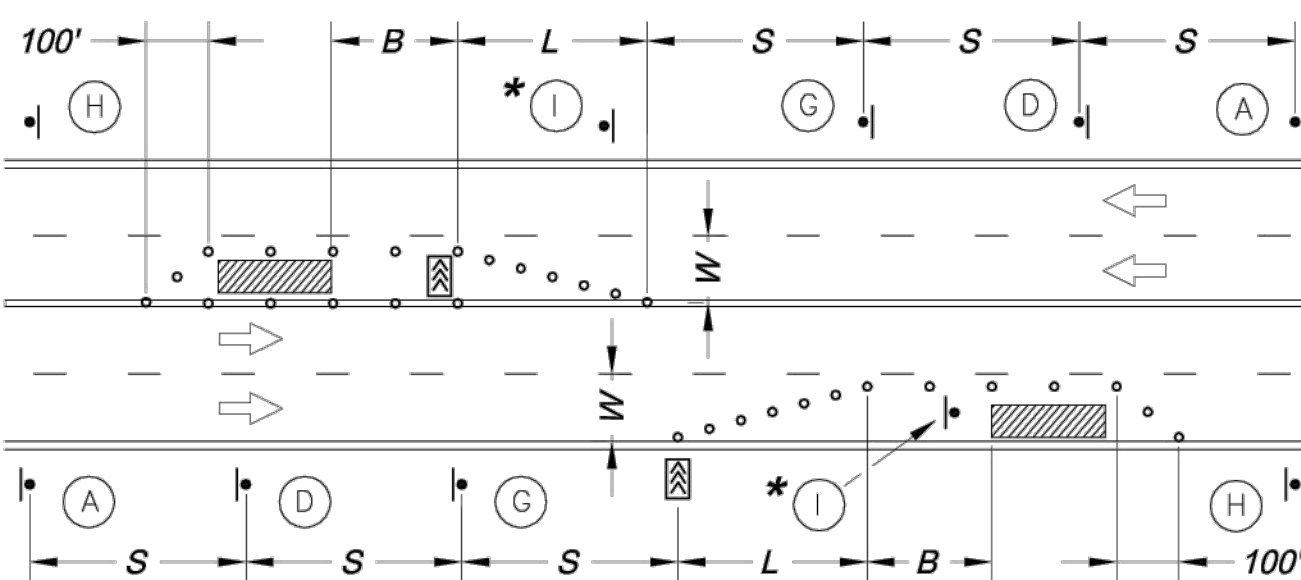
TRAFFIC CONTROL DETAIL
SCALE: 1" = 50'

SYMBOL LEGEND

- Work Area
- Sign
- Barricade
- Direction of Travel
- Channelizer
- Arrow Panel
- Flagger

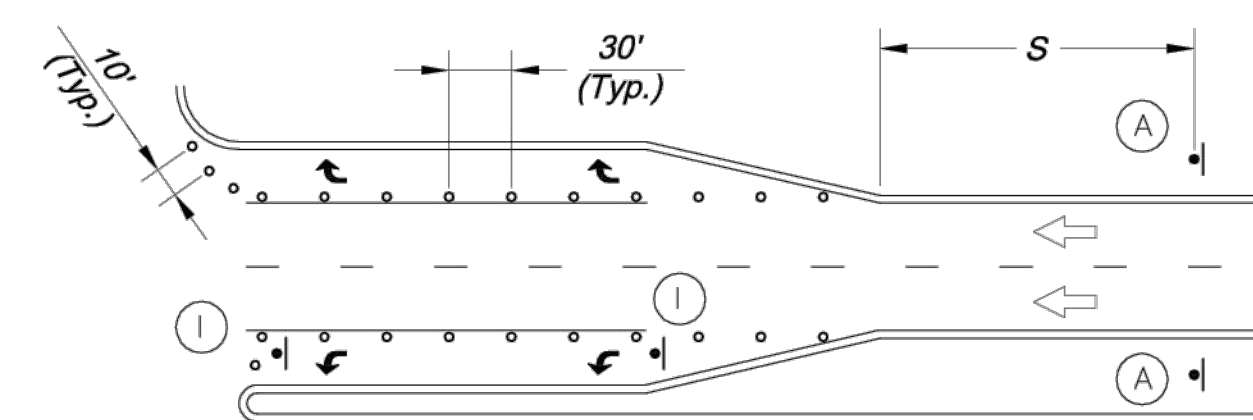


LANE CLOSURE - TWO LANE STREET



LANE CLOSURE - FOUR LANE STREET

* Install Signs Every 200 Feet Throughout the Closed Lane or As Needed



TURN LANE CLOSURE

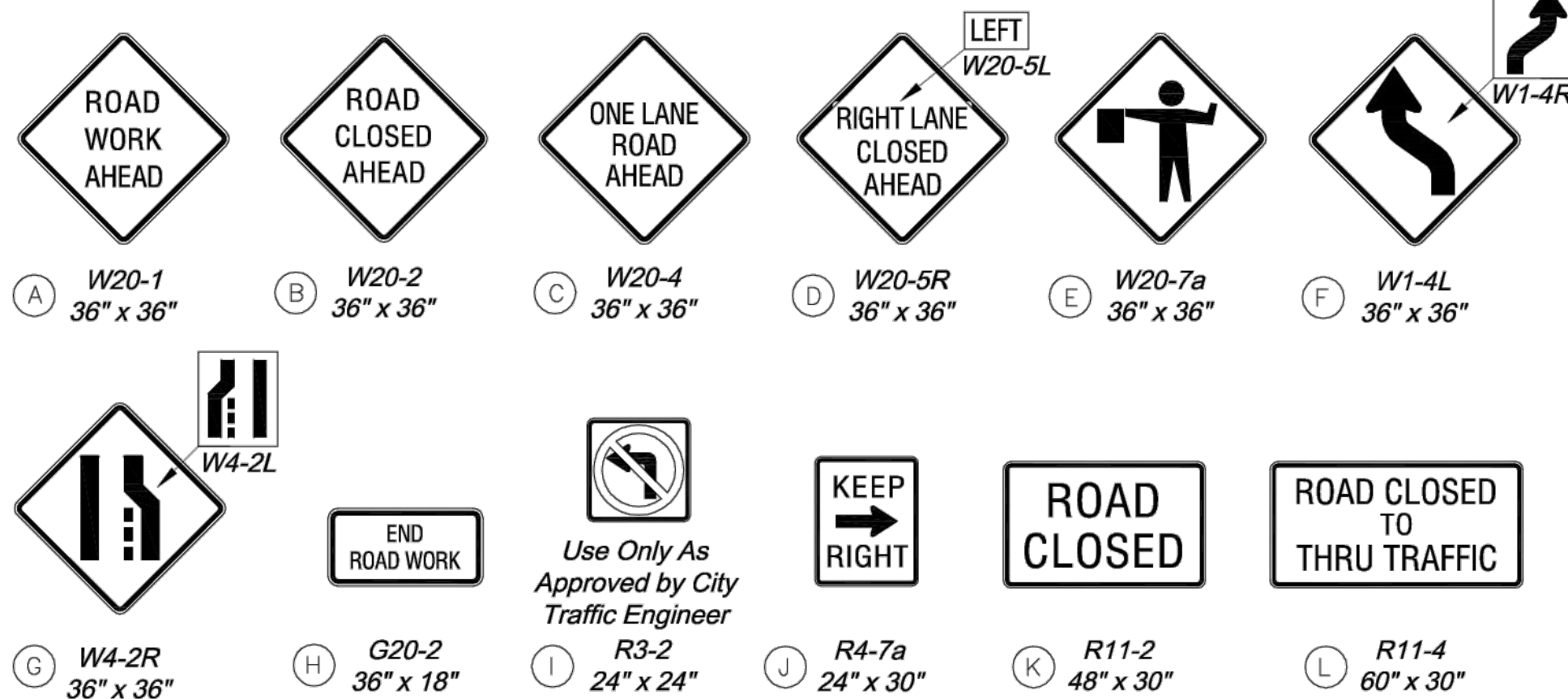
Sign Spacing "S"	
Speed Limit (mph)	Spacing (Feet)
25	100
30 - 35	250
≥ 40	350

Taper Dimensions (Feet)				
Speed Limit (mph)	Minimum Taper Length "L", per Lane Width "W"			Minimum Number of Channelizers
	10	11	12	
25	105	115	125	6
30	150	165	180	7
35	205	225	245	8
40	270	295	320	9
45	450	495	540	13

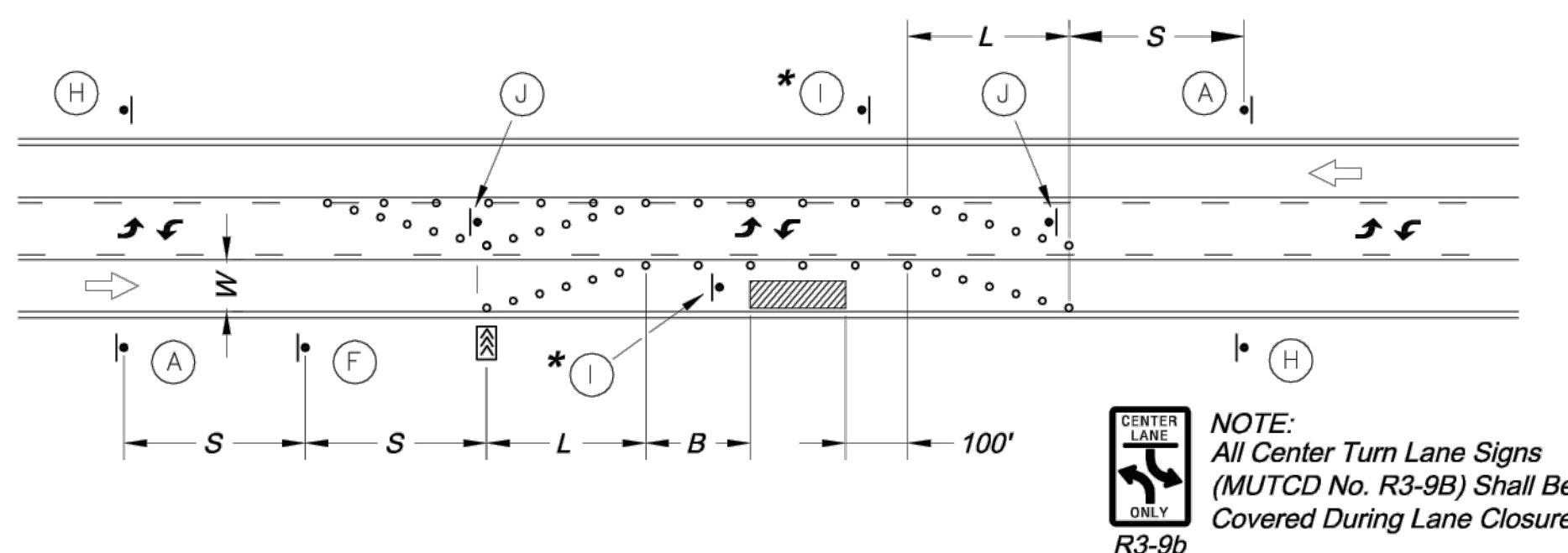
Guidelines for Length of Longitudinal Buffer Space "B"	
Speed Limit (mph)	Length (Feet)
25	35
30	55
35	85
40	120
45	170

Maximum Channelizer Spacing		
Speed Limit (mph)	Within Taper (Feet)	Outside Taper (Feet)
25	25	50
30	30	60
35	35	70
40	40	80
45	45	90

SIGN LEGEND

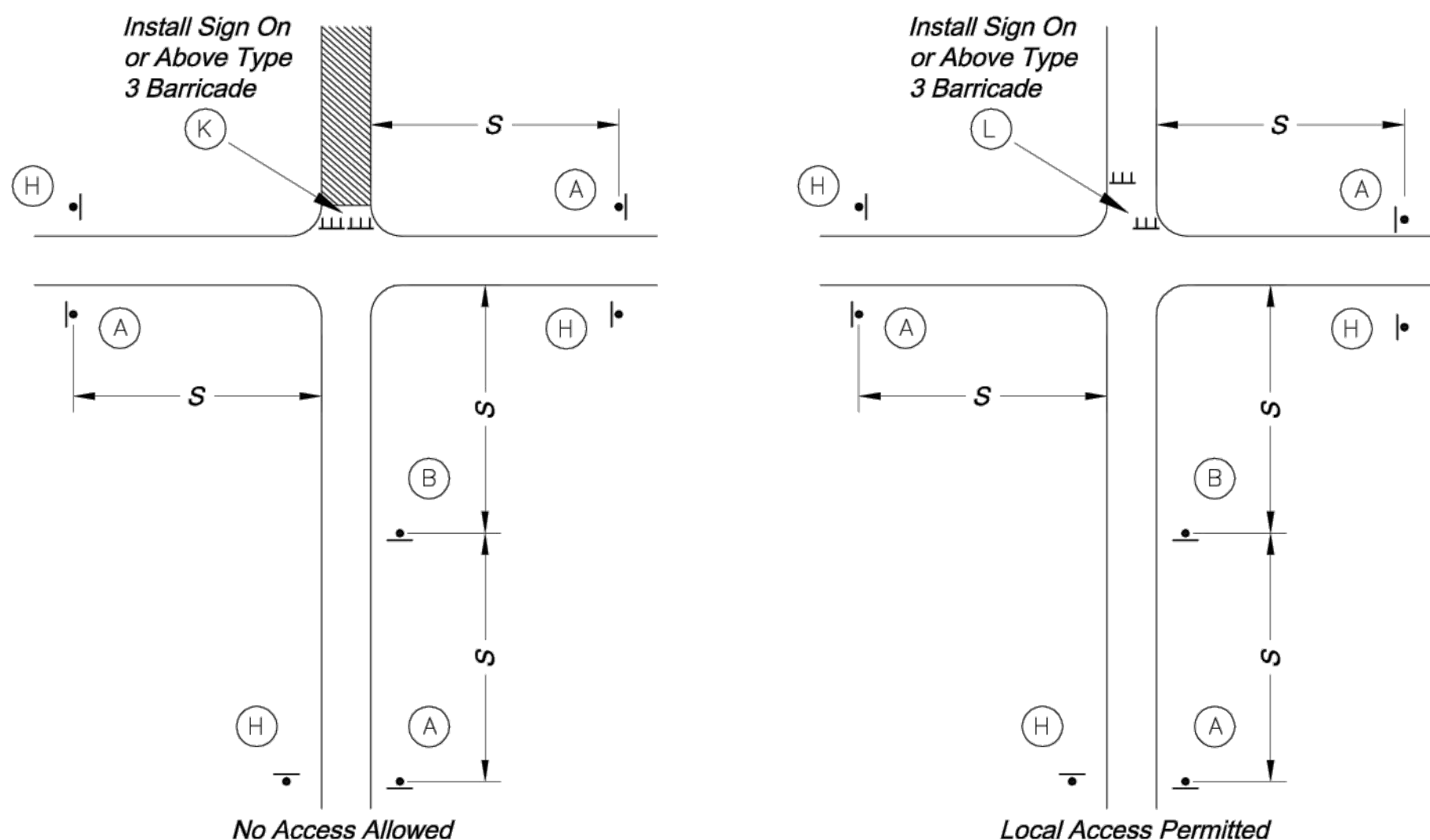


TYPICAL SIGNING FOR WORK ADJACENT TO THE STREET



LANE CLOSURE - THREE LANE STREET

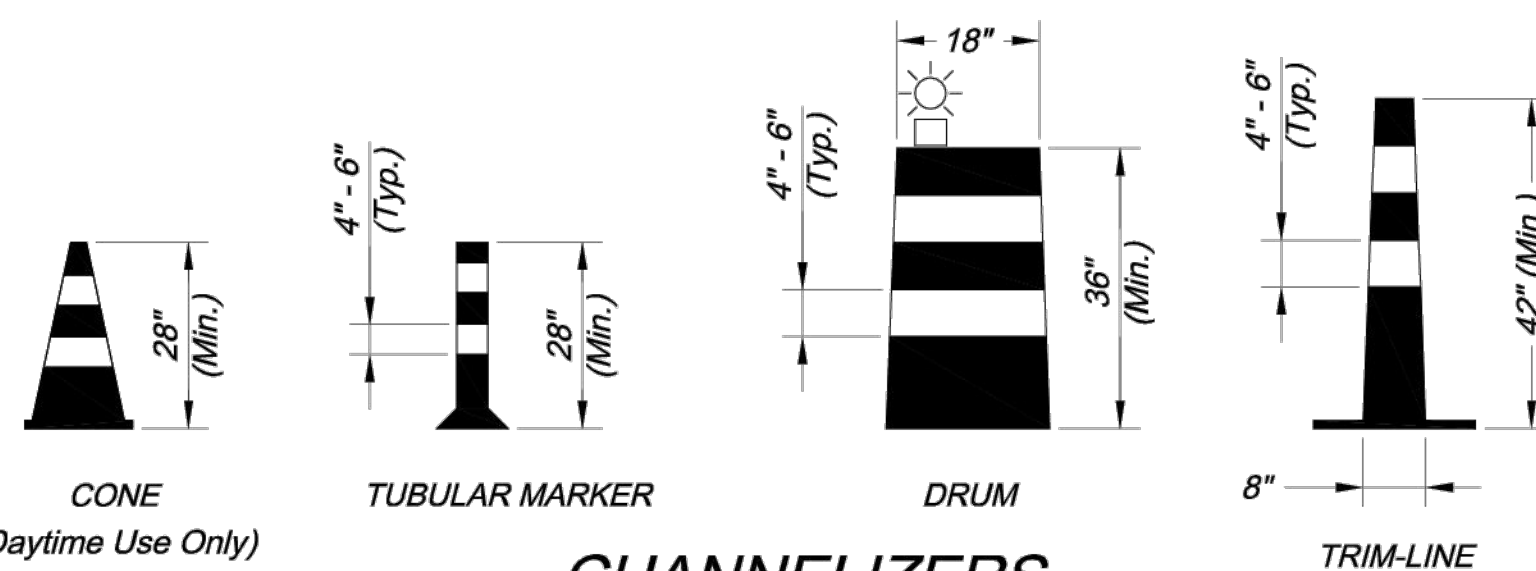
* Install Signs Every 200 Feet Throughout the Closed Lane or As Needed



TYPICAL STREET CLOSURE

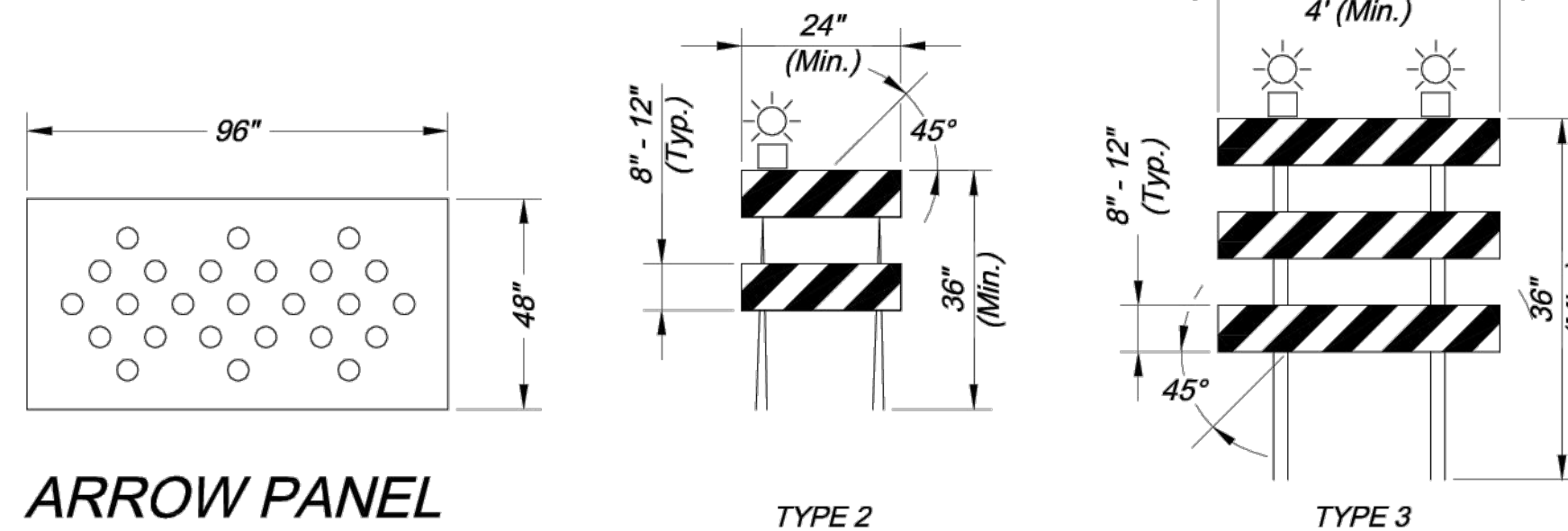
GENERAL NOTES:

- All signs, barricades, channelizers, markings and other traffic control devices shall conform to the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).
- All traffic control devices shall be standard in size, shape, color, and message, in good condition, and retro-reflectorized. All signs shall be securely mounted with height and lateral location as described in the MUTCD.
- Warning lights shall be used on barricades in place at night and on warning signs which alert drivers about a change in alignment, traffic control, lane closure, or road closure.
- Flaggers shall be used where indicated on the plans, where construction vehicles interact with normal traffic, or where construction activities impose a restriction on traffic, as directed by the City Traffic Engineer. Where flaggers are used, advance signing shall be erected as shown in the details or as specified in the MUTCD. Flaggers shall meet the requirements in the MUTCD in regard to character, training, attire, and behavior.
- Trim-lines are the City's preferred channelizing device. Cones may not be used at nighttime.
- Traffic control devices not in use or not applicable shall be either covered or removed from the work area.
- The Contractor shall use barricades, street plates, or fencing as needed to effectively shield pedestrian and vehicular traffic from exposed objects, excavations, and construction activities.
- Access shall be maintained to all driveways and side streets unless noted otherwise on the plans.
- No street shall be closed without the approval of the City Traffic Engineer. The Contractor shall notify the City Traffic Engineer at least 7 days in advance of any street closure. If a detour route around the closure is to be provided, all detour signing shall be as shown on a plan approved by the City Traffic Engineer.
- Construction vehicles parked along streets shall be located within the work area (traffic control) or where otherwise normally permitted. Construction materials, including traffic control and vehicles shall not restrict sight distance for vehicles exiting at streets or drives.
- Construction materials shall be kept off of sidewalks, consolidated in one location within City right-of-way, and removed daily unless otherwise approved by the Inspector. Dirt, mud, and other construction debris on streets and sidewalks shall be removed immediately.
- The Contractor shall not perform any work that will restrict vehicular traffic in any way between the hours of 7:00 a.m. and 9:00 a.m. or 4:00 p.m. and 6:00 p.m. Monday through Friday unless otherwise indicated in the specifications.
- All travel lanes should be at least 11 feet wide unless otherwise authorized by the City Traffic Engineer. A "Narrow Lanes" sign shall be installed in advance of a lane width reduction to less than 11 feet.
- All edge drop-offs of more than 2 inches and less than 4 inches should be protected by a wedge or barrier and all edge drop-offs greater than 4 inches shall have edge protection (see Traffic Control Specifications for edge treatment requirements).
- The "Workers" symbolic sign (MUTCD No. W21-1a) may be used instead of the "Road Work Ahead" sign for work with a duration of 12 hours or less. The "End Road Work" sign is not required to be installed after the "Workers" sign.
- No traffic signal shall be altered or modified in any way without a plan approved by the City Traffic Engineer.
- The Contractor shall be responsible for maintaining all traffic control devices on an around-the-clock basis, whether or not work is actively being pursued and any deficiencies noted shall be corrected immediately.
- The traffic control requirements shown on these plans are minimum requirements only and do not attempt to address in depth the variety of situations that may occur once construction has started. In no way do the requirements shown on these plans relieve the Contractor of his responsibility for selecting the proper traffic control devices and implementation procedures that will assure the safety of drivers, pedestrians, and workers at all times.
- Should the contractor fail to enforce the traffic control plan or fail to clean, replace or otherwise maintain the traffic control devices when directed to do so by the City Traffic Engineer or representative, the City may take one or more of the following actions:
 - Employ another agency to correct deficiencies in traffic control devices and deduct the cost from the Contractor's pay estimate,
 - Stop the work until deficiencies are corrected,
 - Suspend all pay estimates until deficiencies are corrected, or
 - Place the Contractor in default.



CHANNELIZERS

NOTE: White Bands On Barricades and Channelizers Shall Be Made From High Intensity Sheeting Material.



ARROW PANEL

BARRICADES

Project:

TRAFFIC CONTROL DETAILS

STANDARD DRAWING TC-1

Sheet Name:

Drawn By: JJW

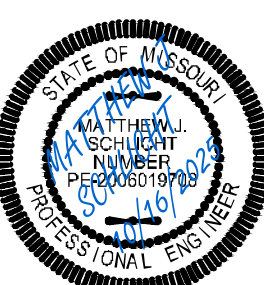
Checked By: MP

Date: 12-10-2008

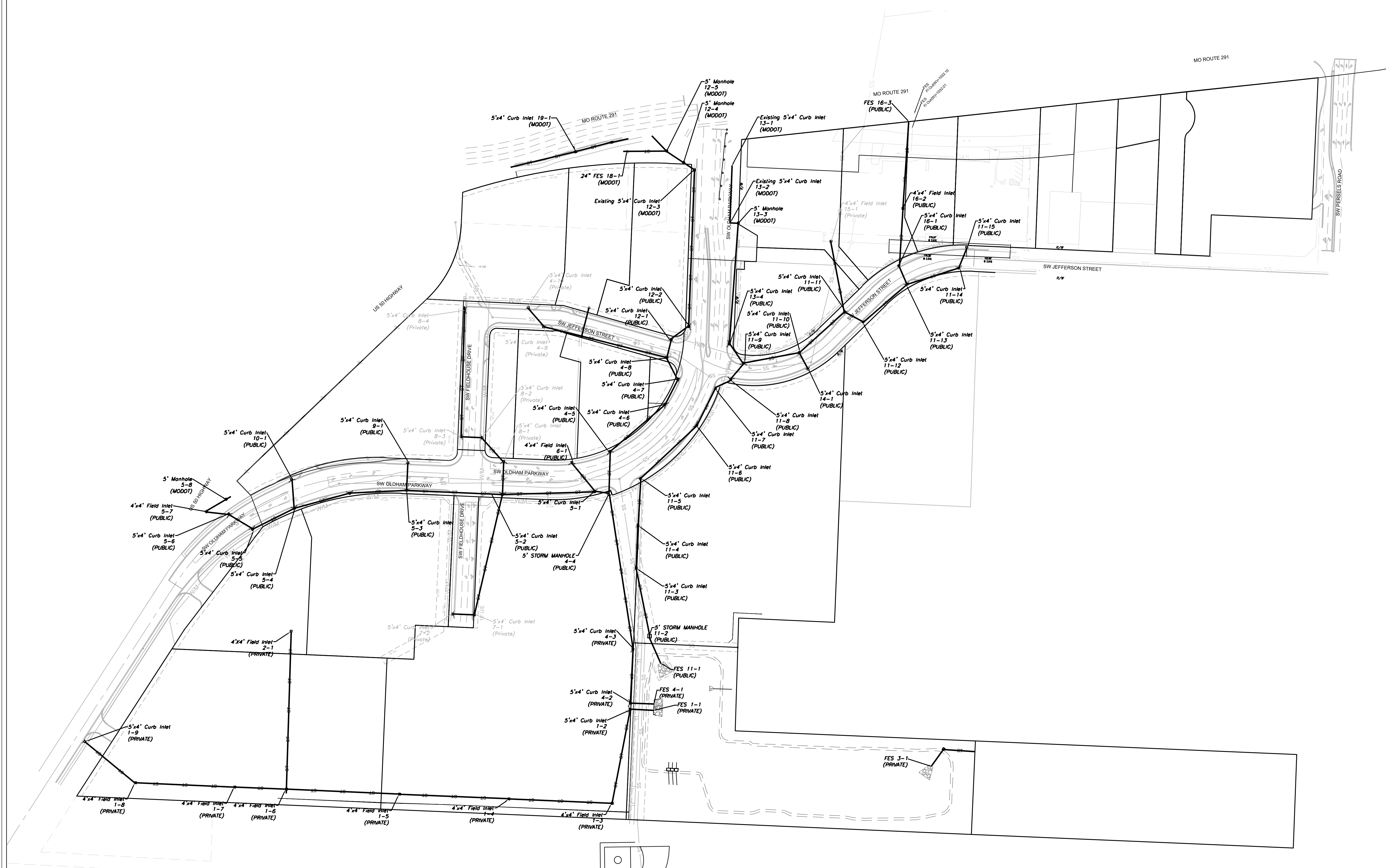
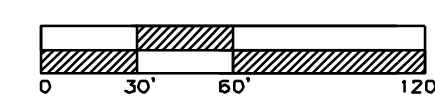
Project No.: X

x OF x

X



SCALE: 1" = 60'





Professional Registration
Missouri
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Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

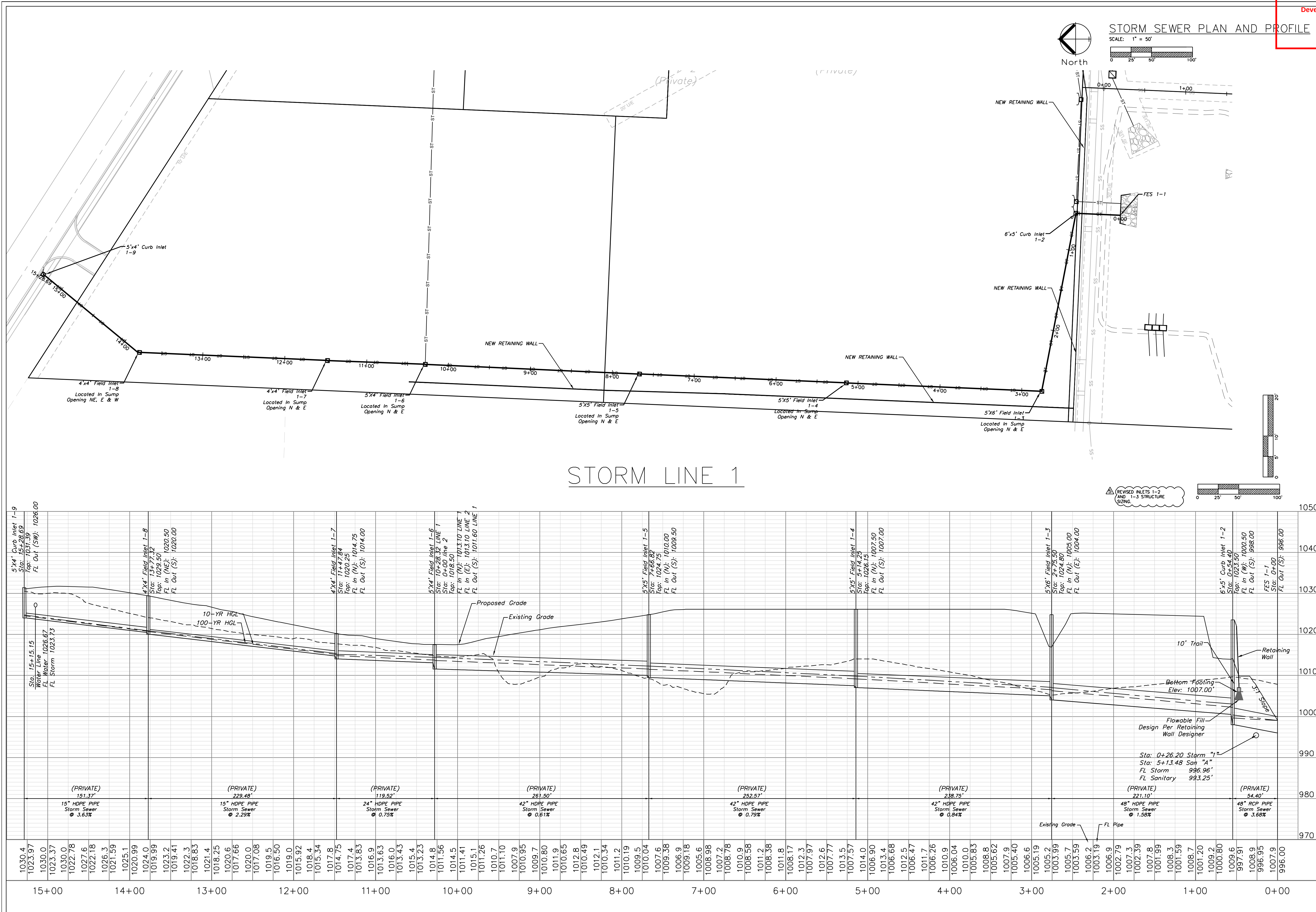
Project:
MARKETPLACE,
LSMO
Issue Date:
November 5, 2024

Storm Sewer Plan and Profile
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



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

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REV. 4/15/2025	
REV. 10/16/2025	



10/30/2025

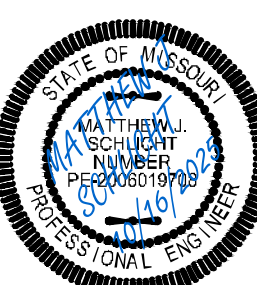
ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING
50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
P: (816) 623-9888 F: (816) 623-9849

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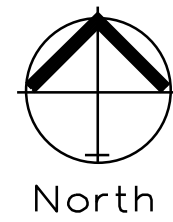
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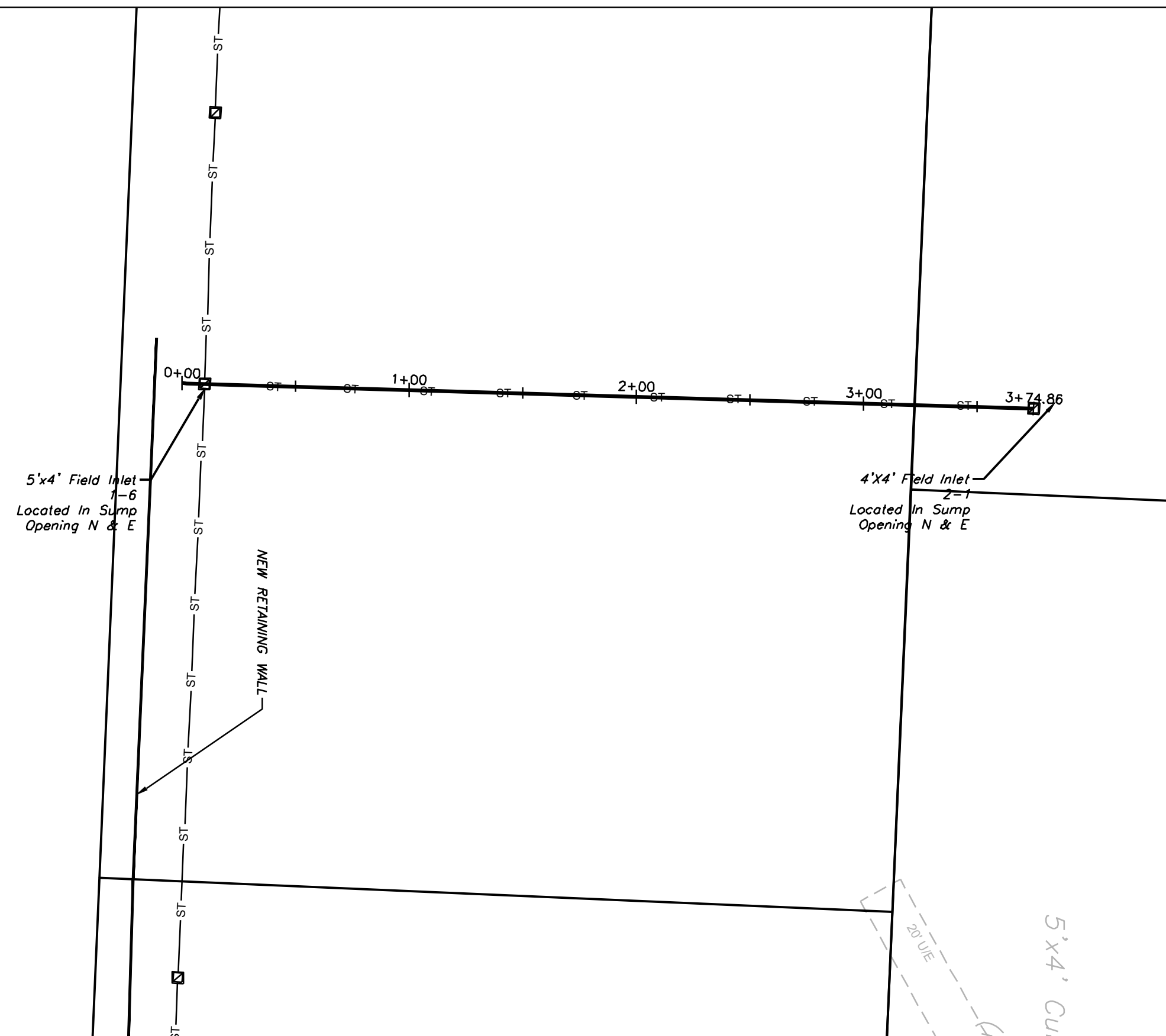
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REV. 10/16/2025

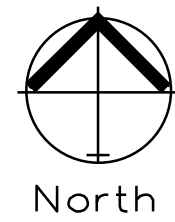
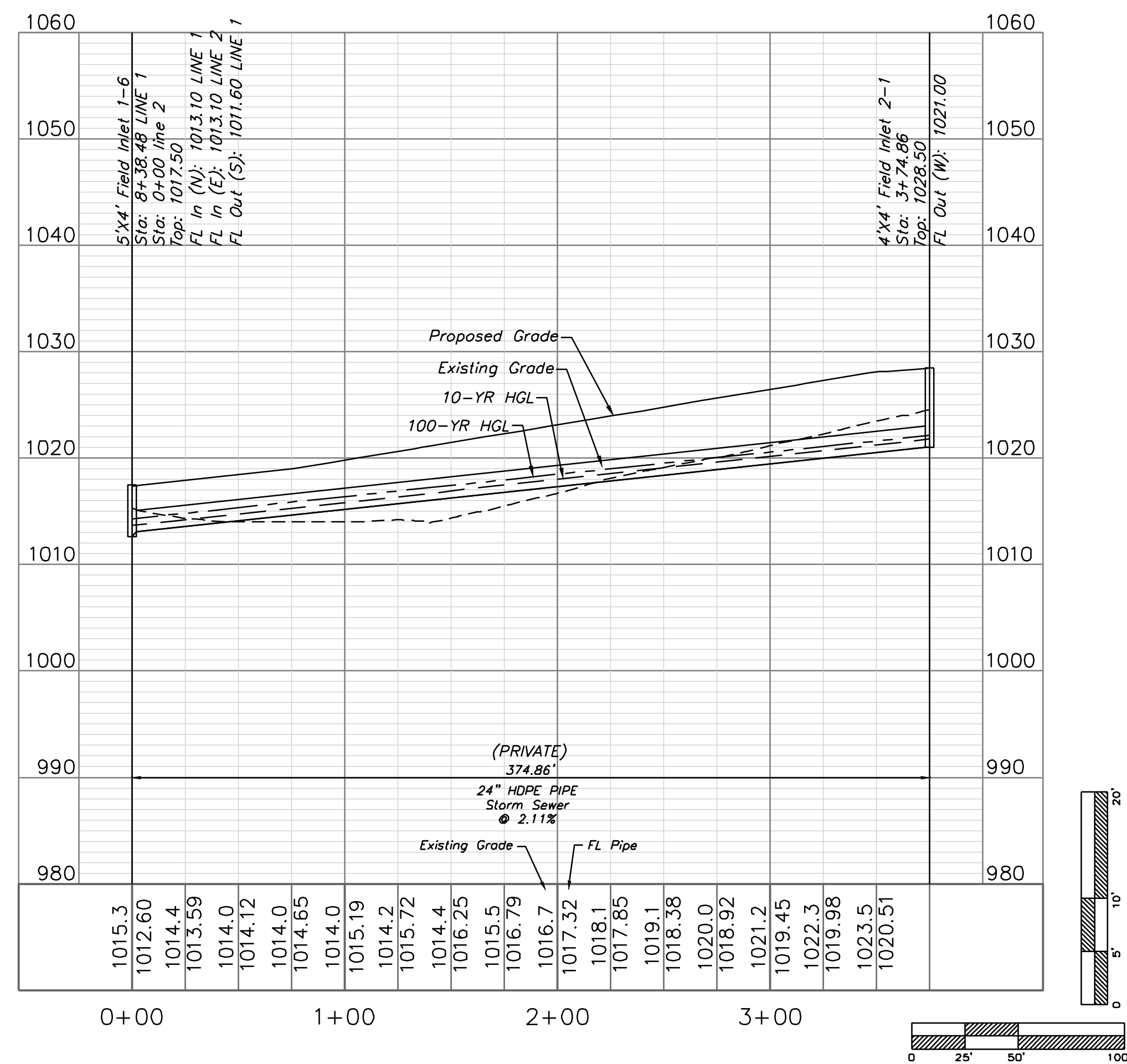


STORM SEWER PLAN AND PROFILE

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0 25' 50' 100'

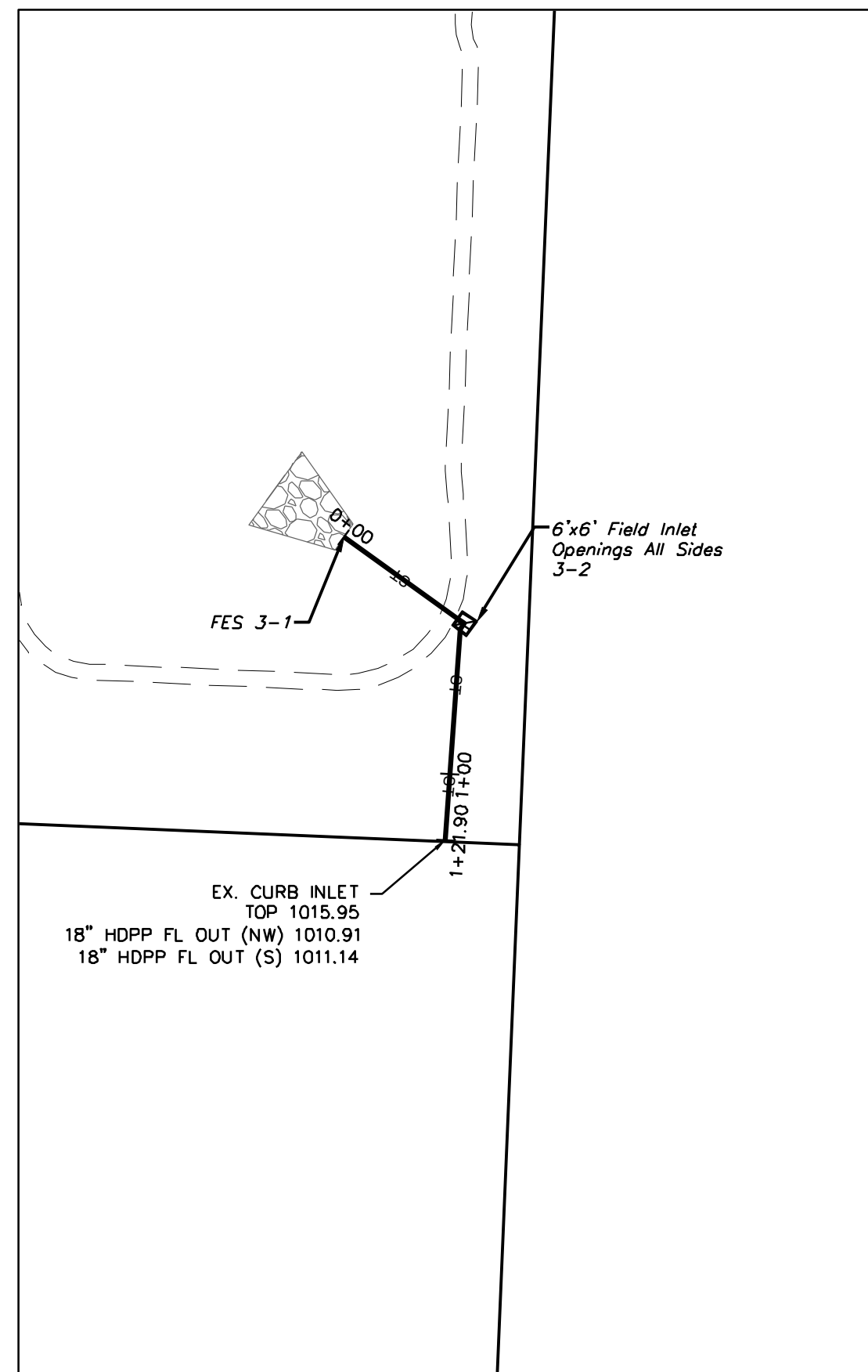


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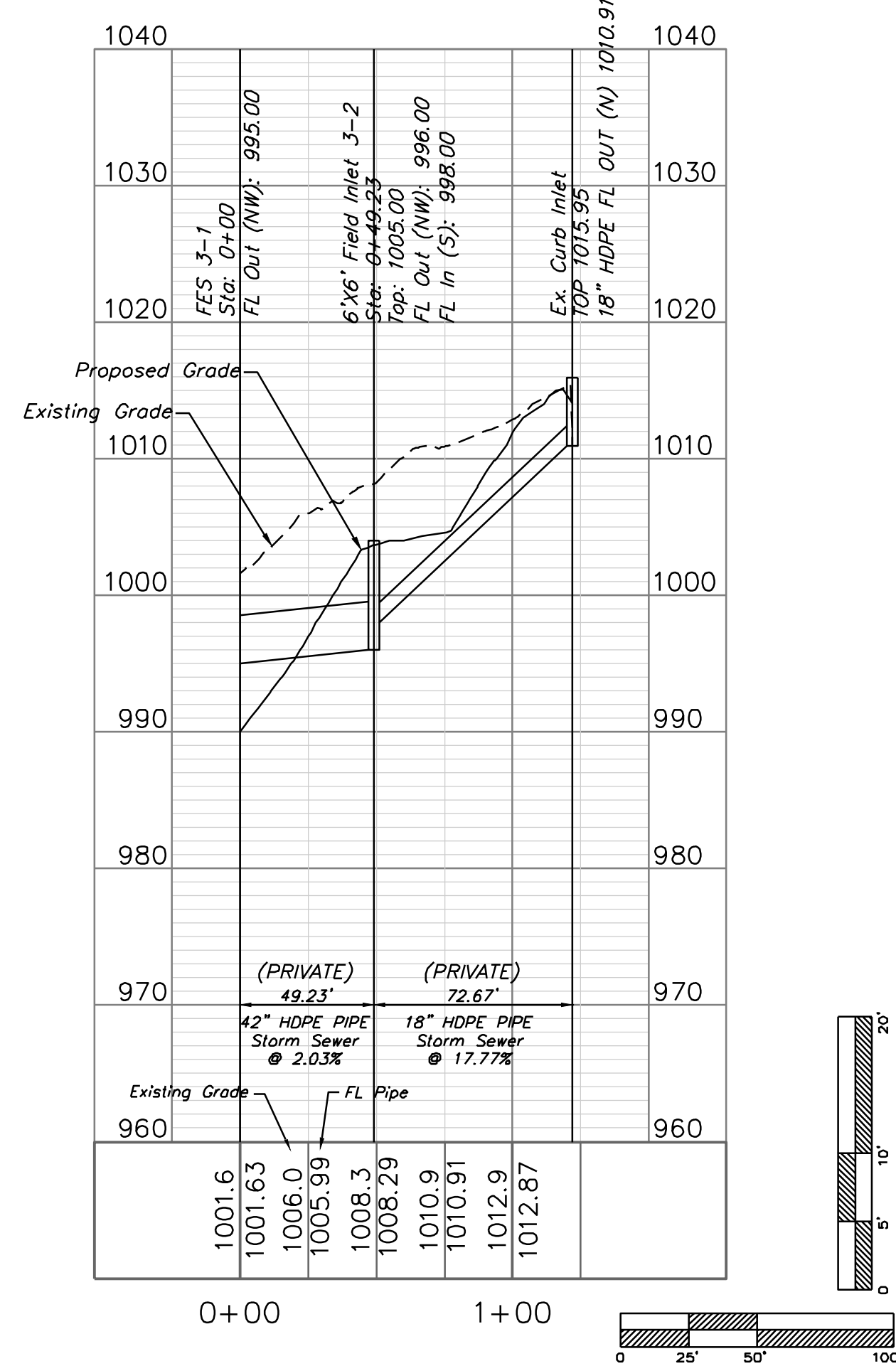


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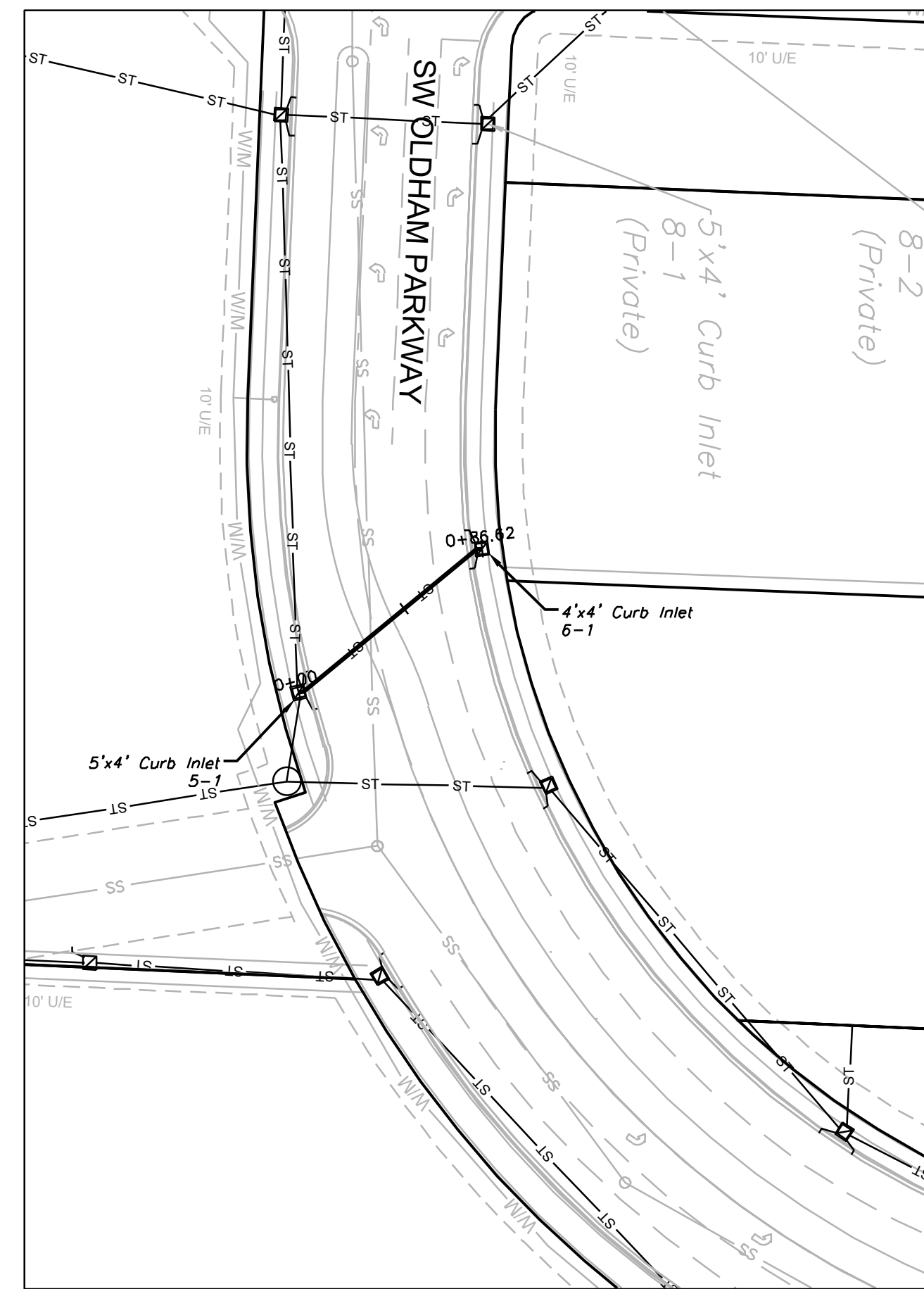


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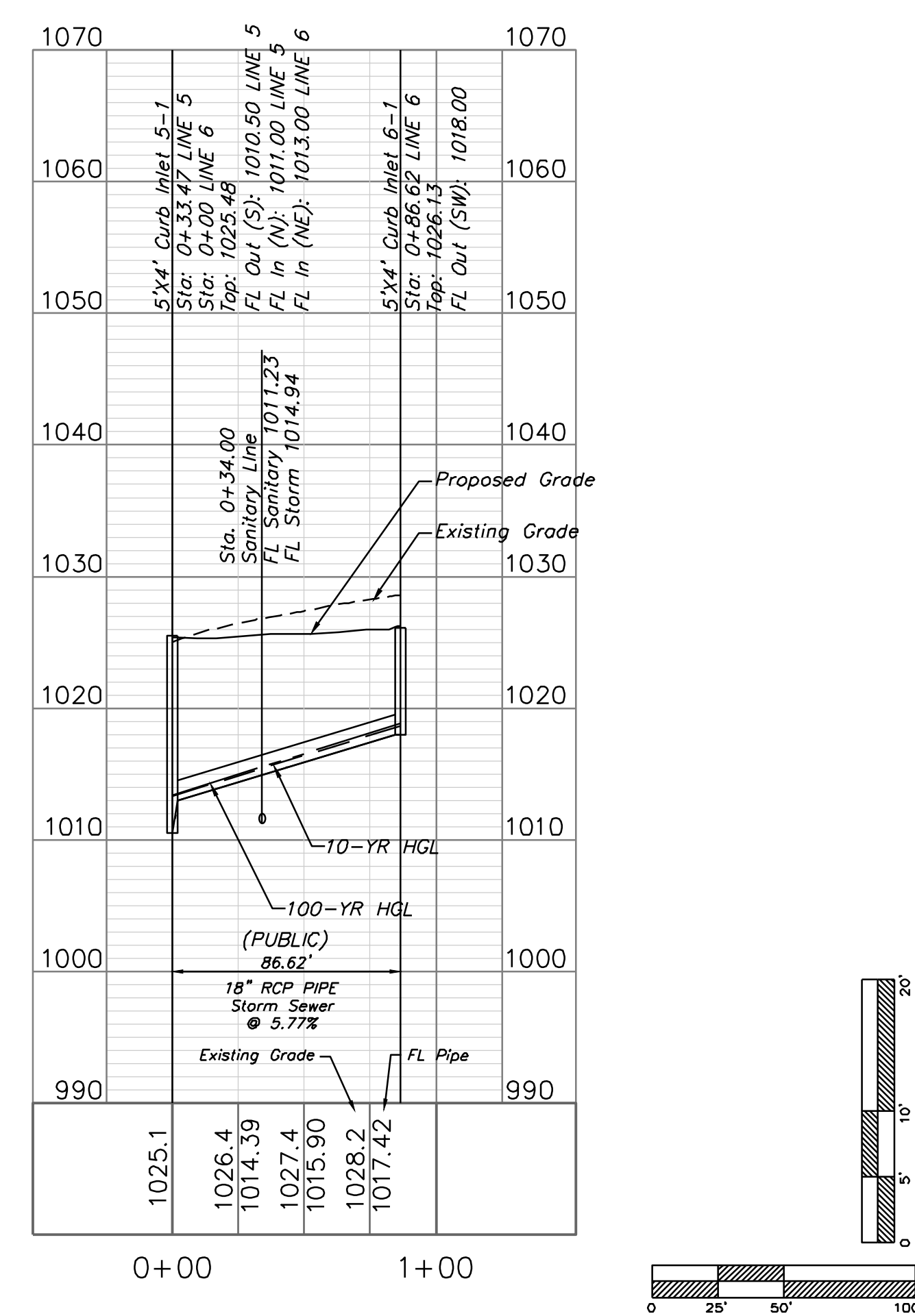


STORM SEWER PLAN AND PROFILE

SCALE: 1" = 50'
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STORM LINE 6



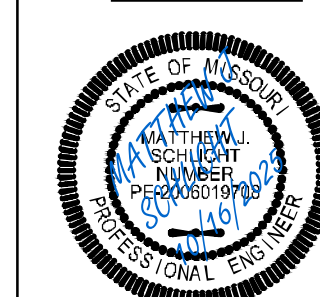


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Lee's Summit, Jackson County, Missouri



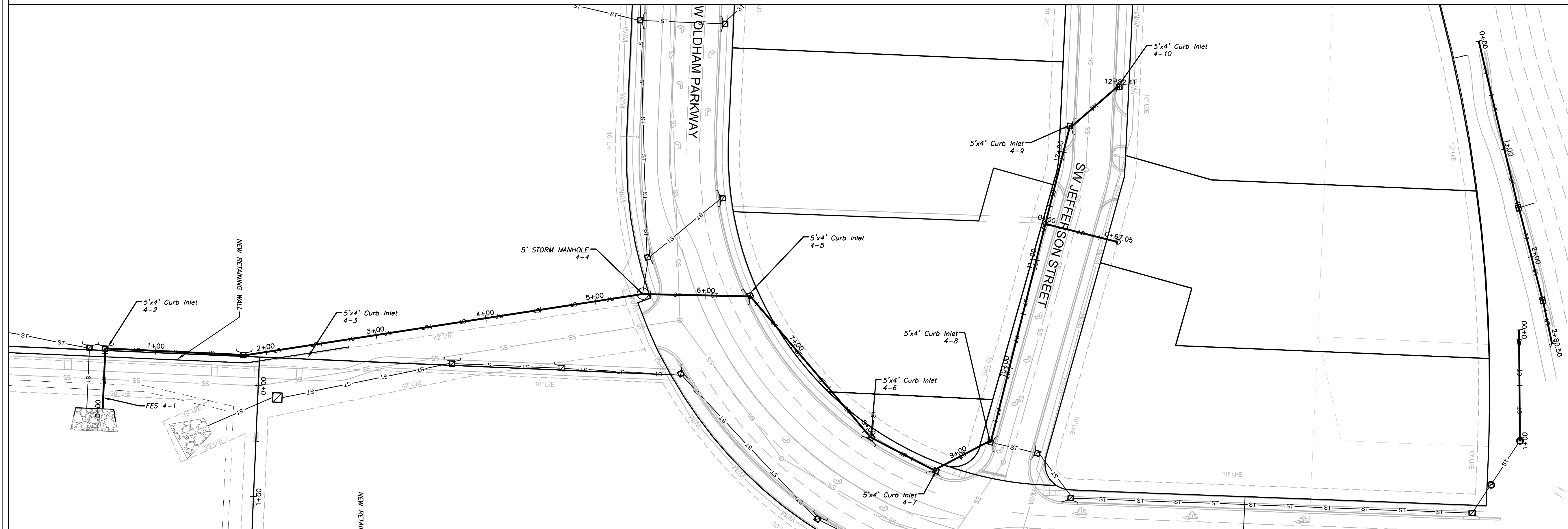
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REV. 4/15/2025
REV. 10/16/2025

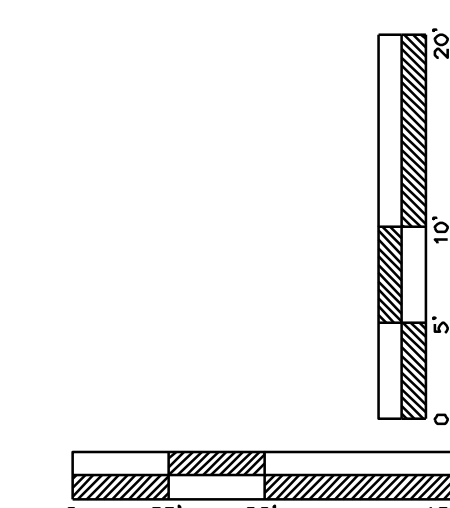
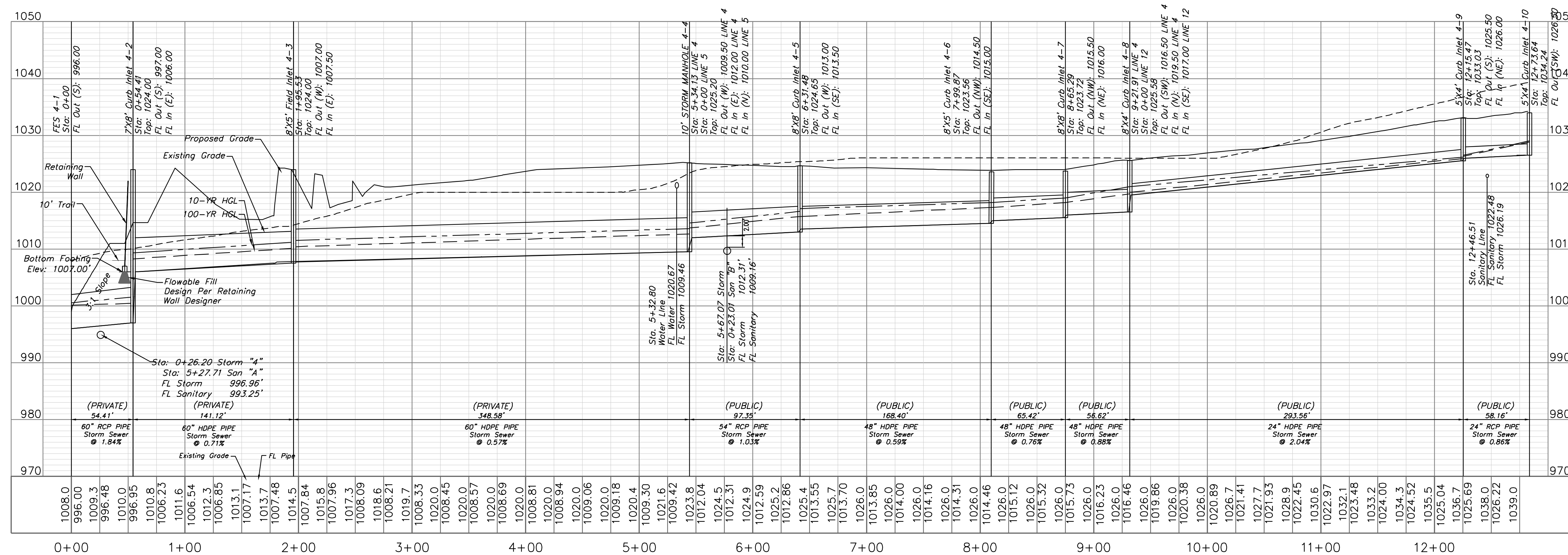


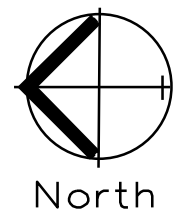
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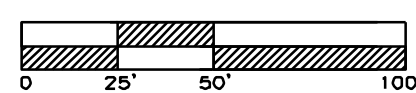
STORM LINE 4





STORM SEWER PLAN AND PROFILE

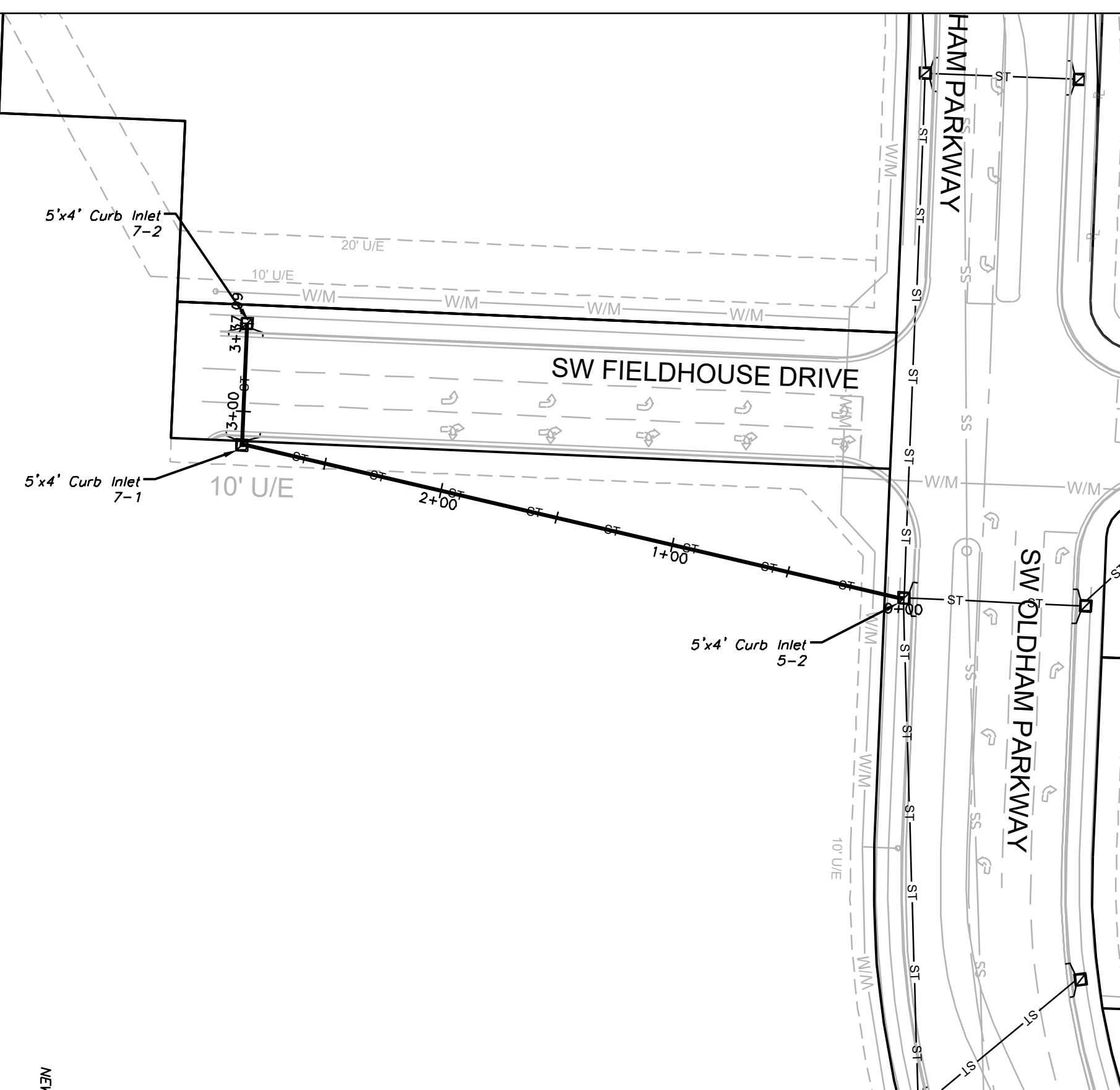
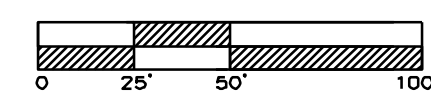
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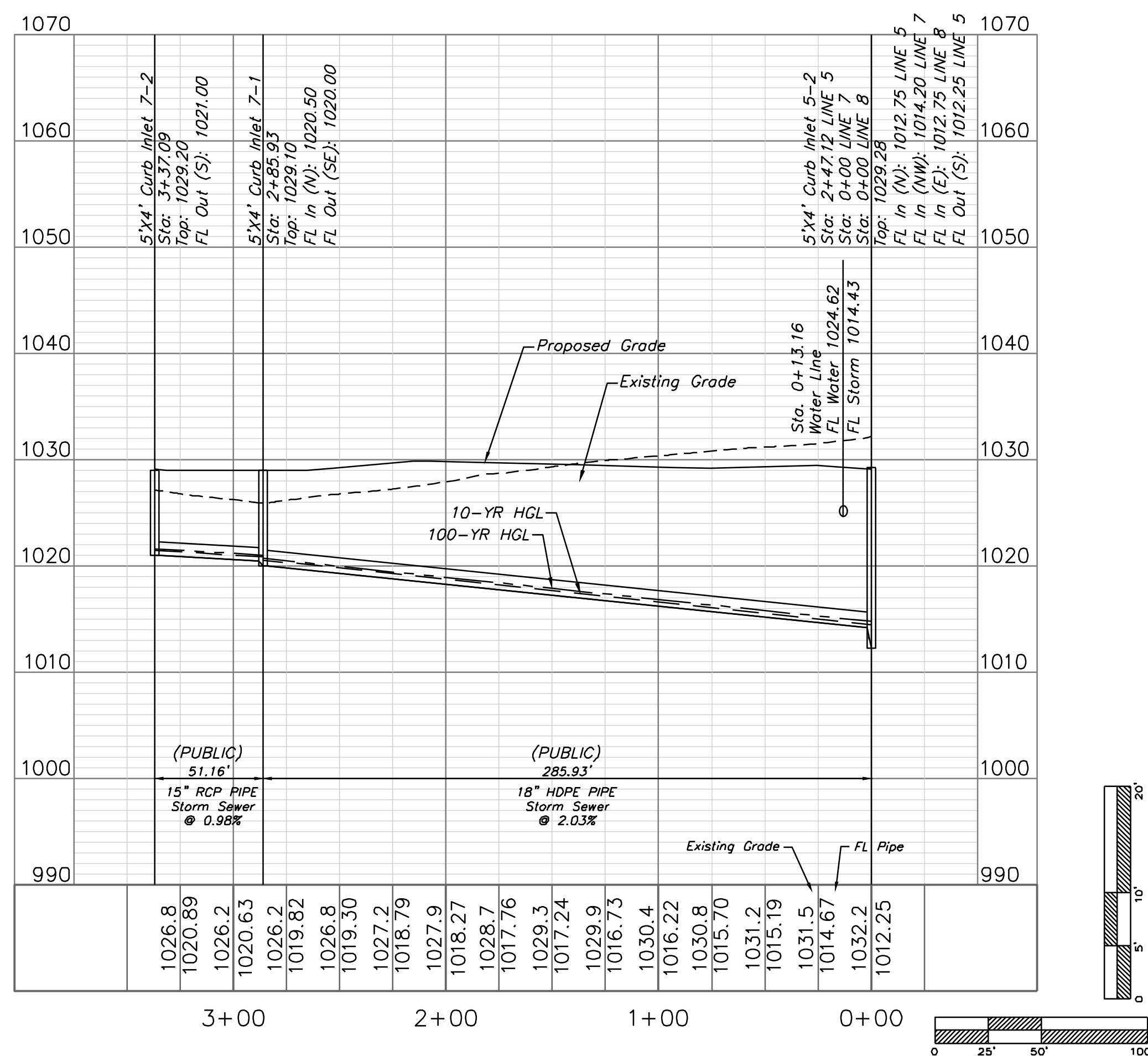


STORM SEWER PLAN AND PROFILE

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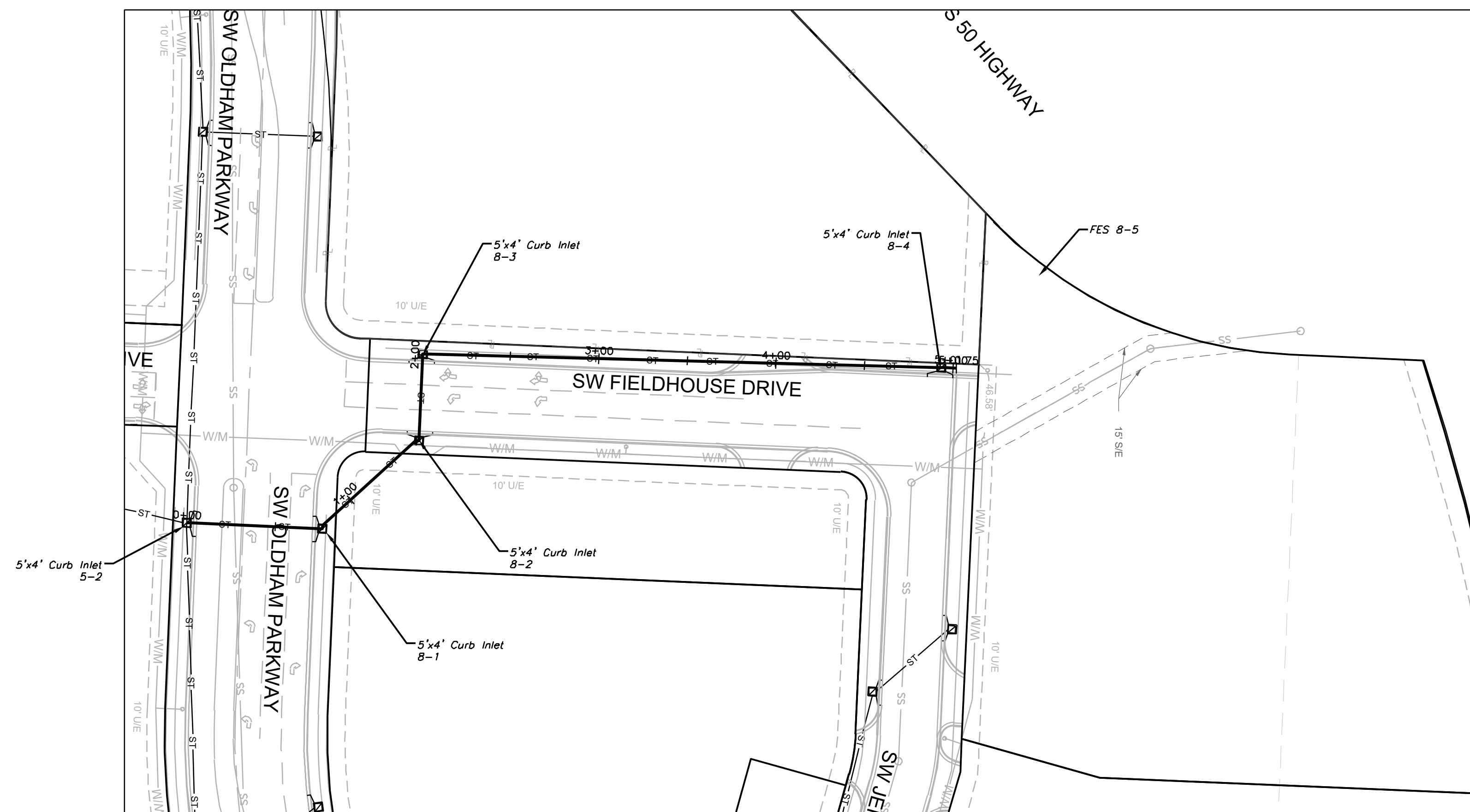
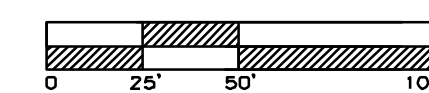


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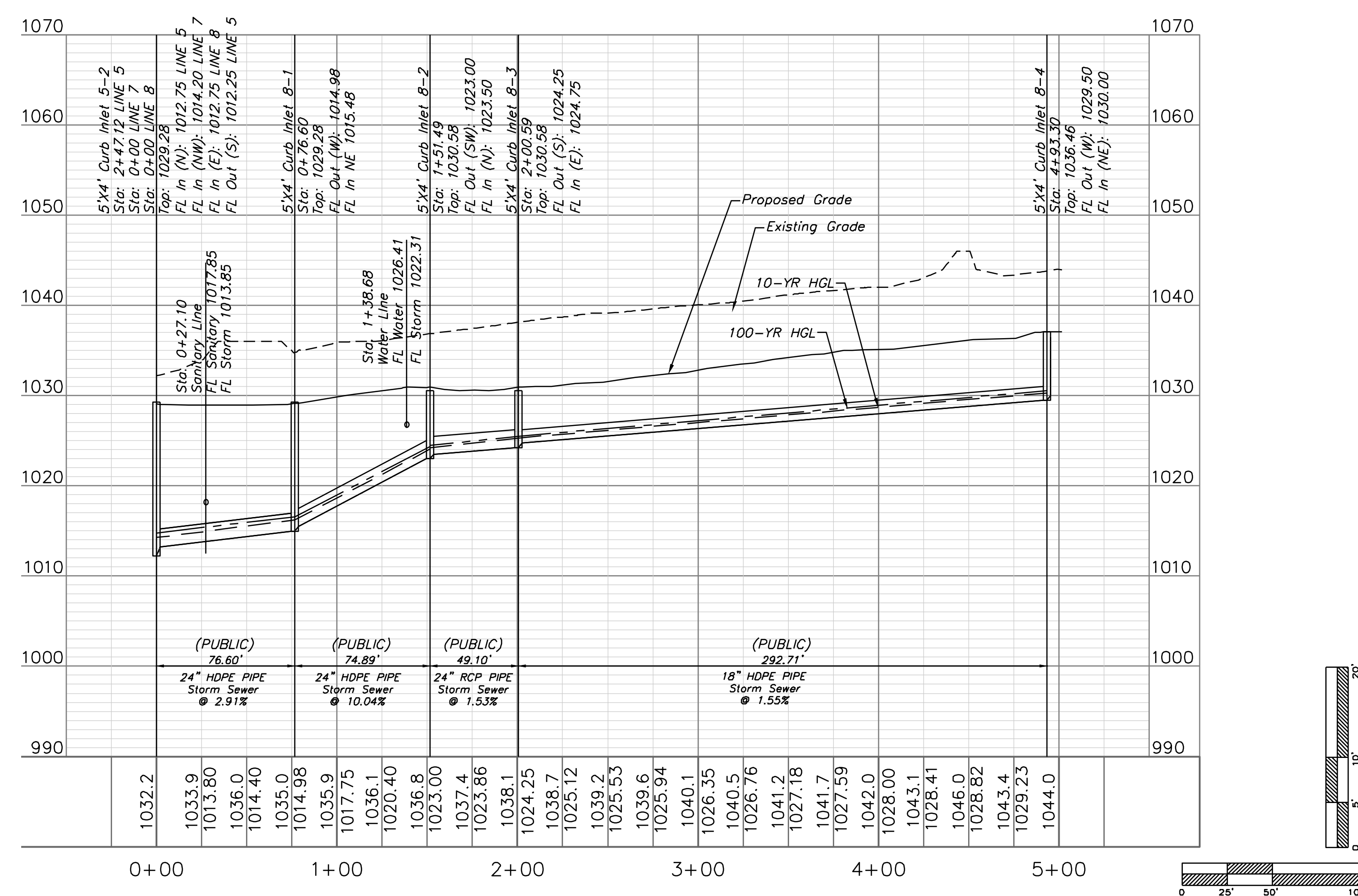


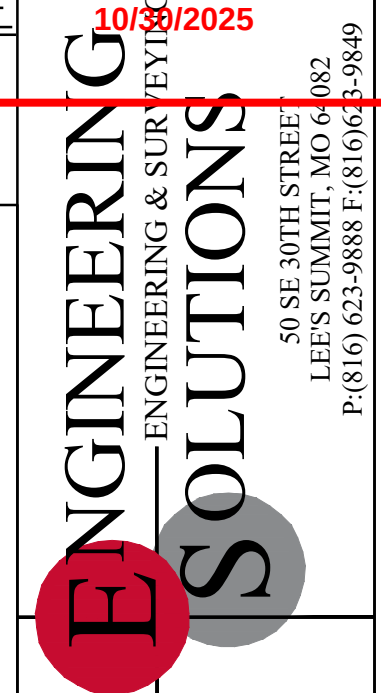
STORM SEWER PLAN AND PROFILE

SCALE: 1" = 50'



STORM LINE 8



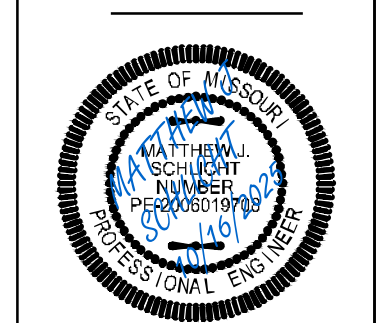


Professional Registration
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Lee's Summit, Jackson County, Missouri

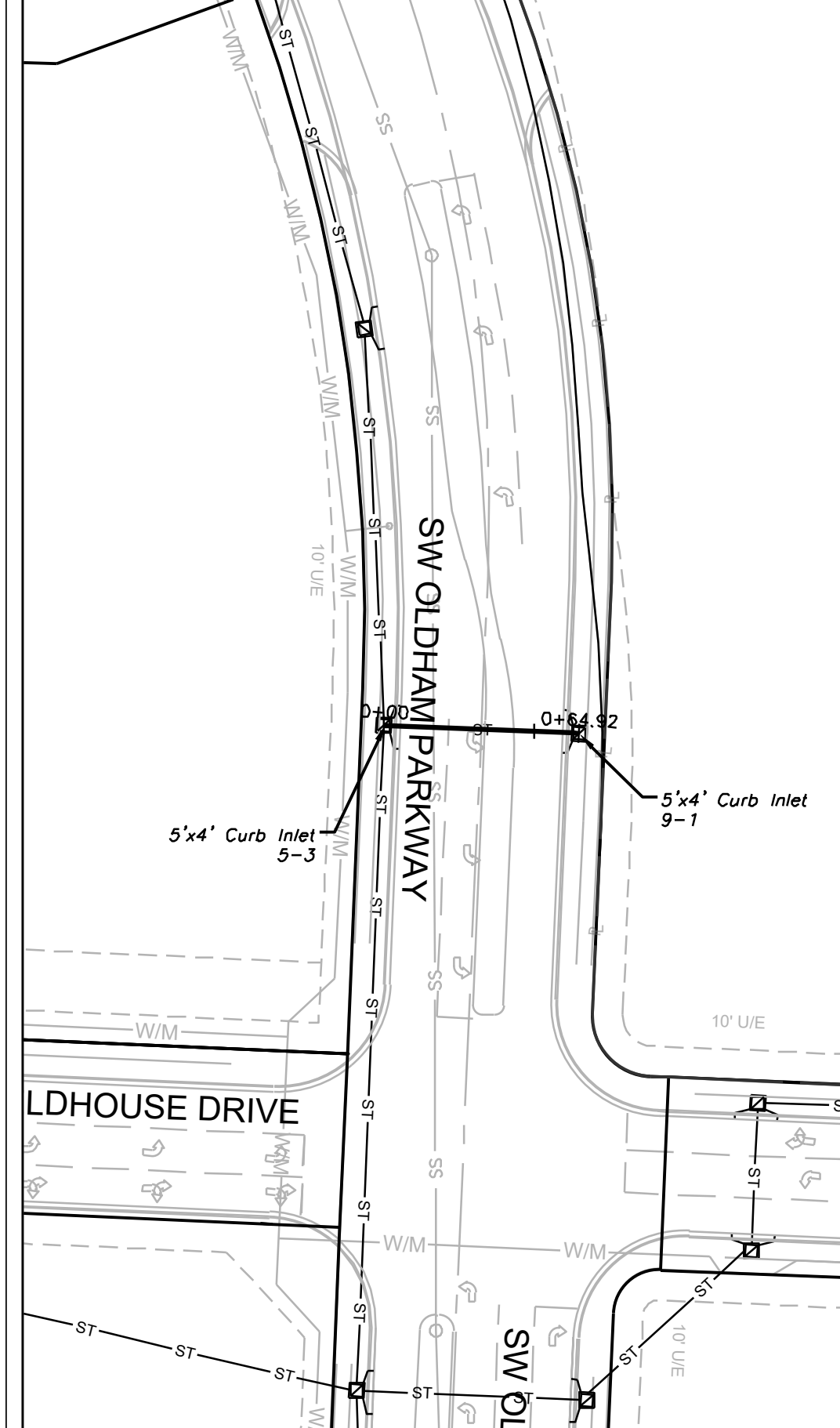
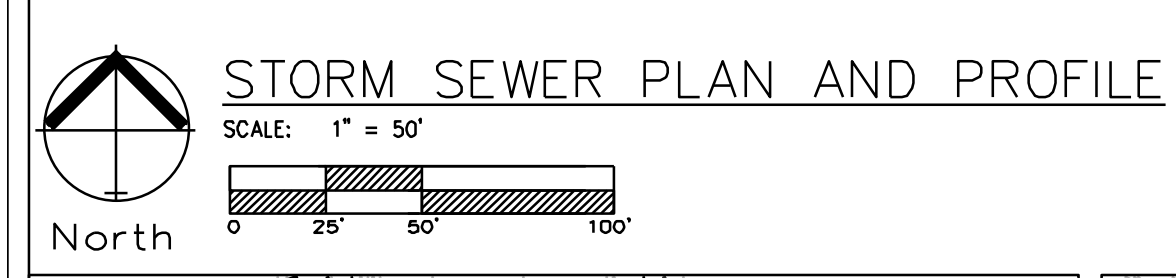
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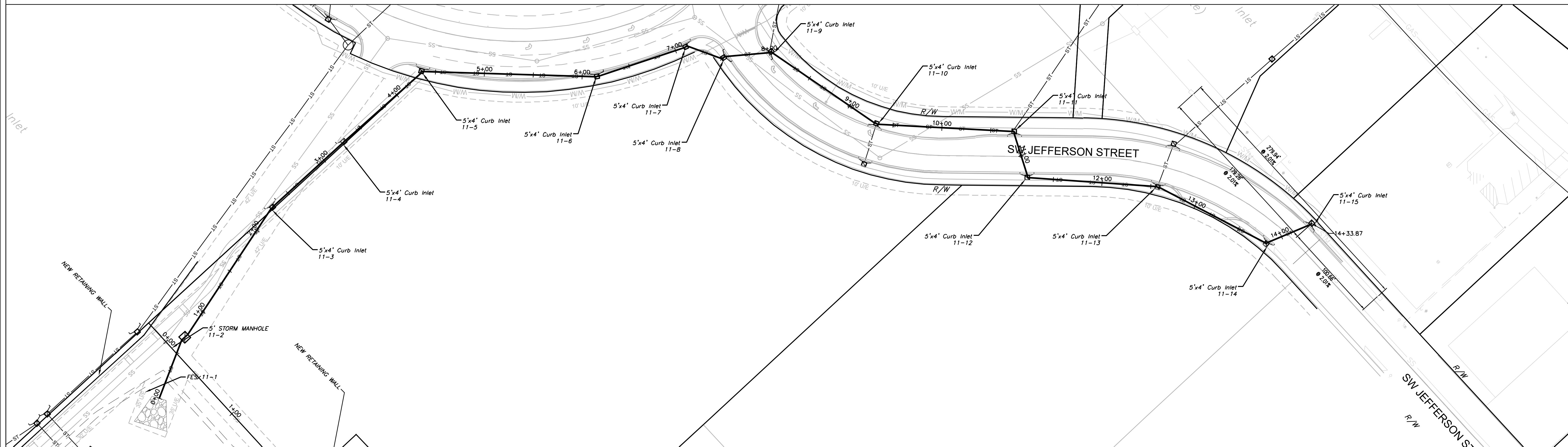
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REV. 2/6/2025	
REV. 3/5/2025	
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REV. 4/15/2025	
REV. 10/16/2025	



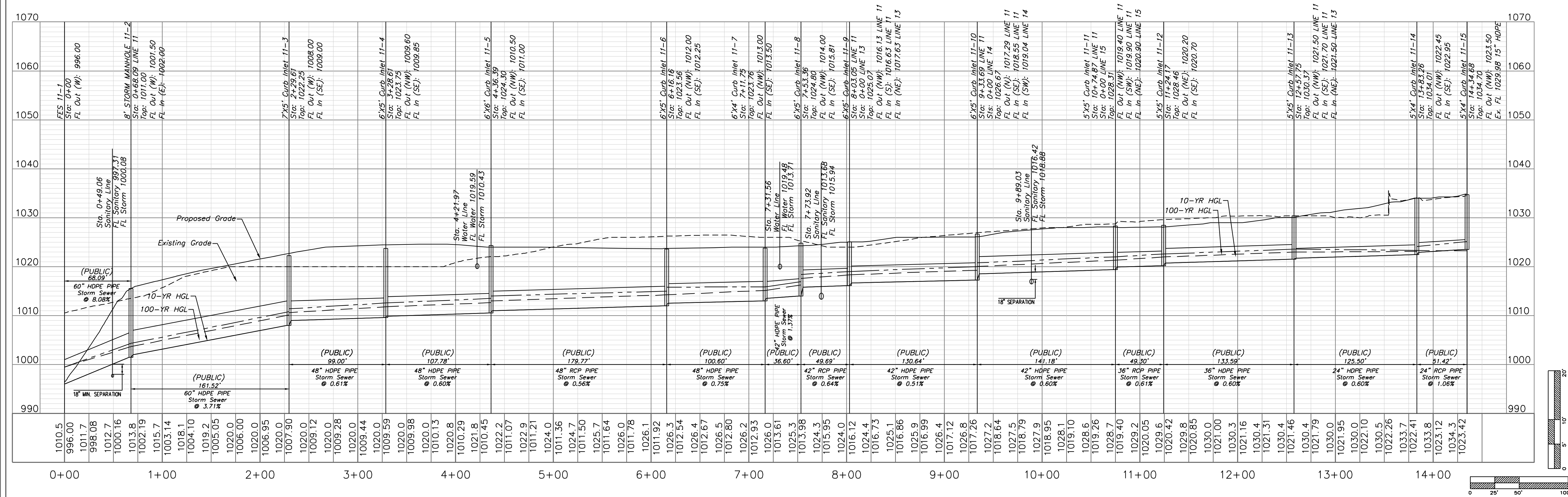


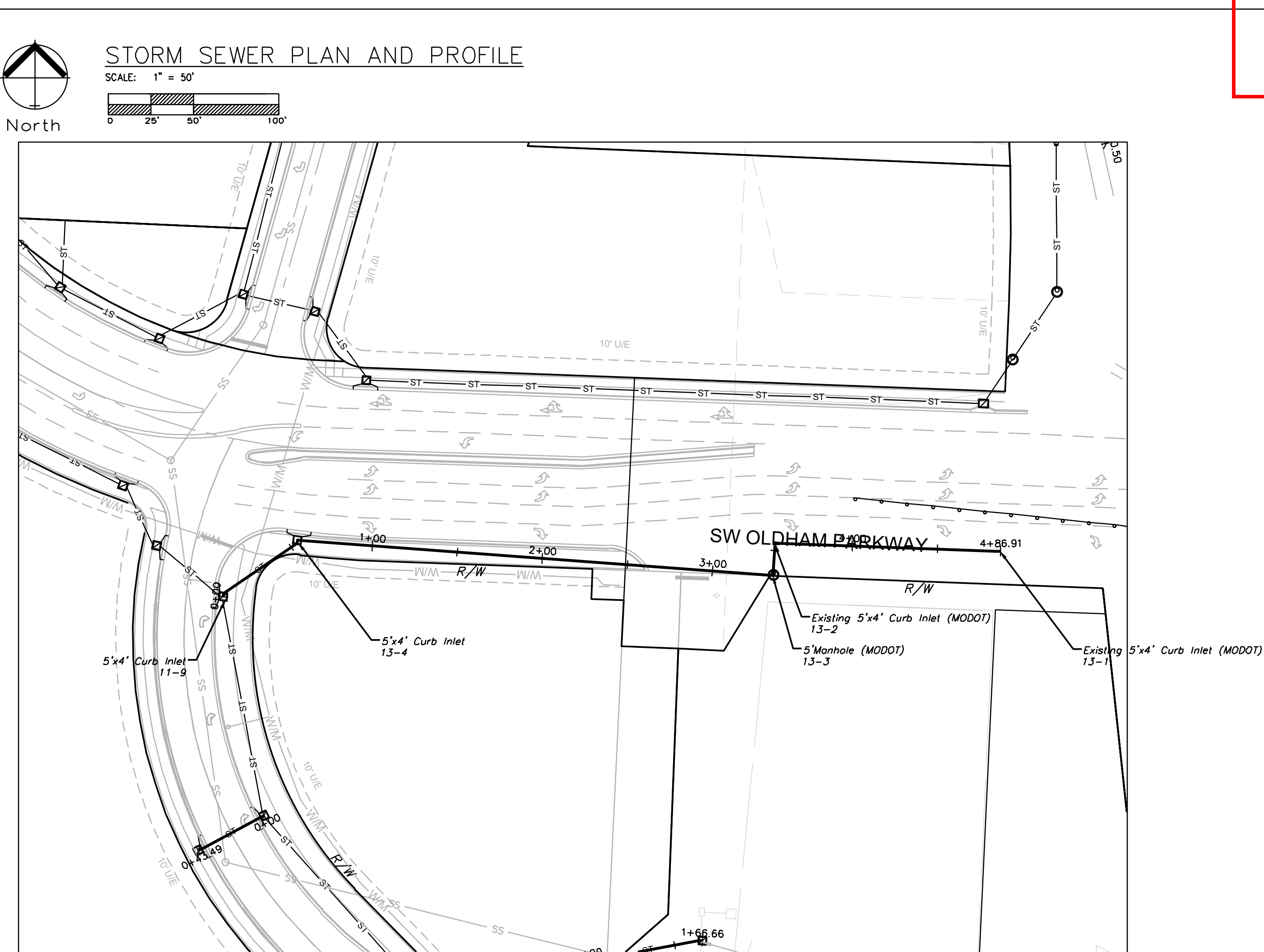
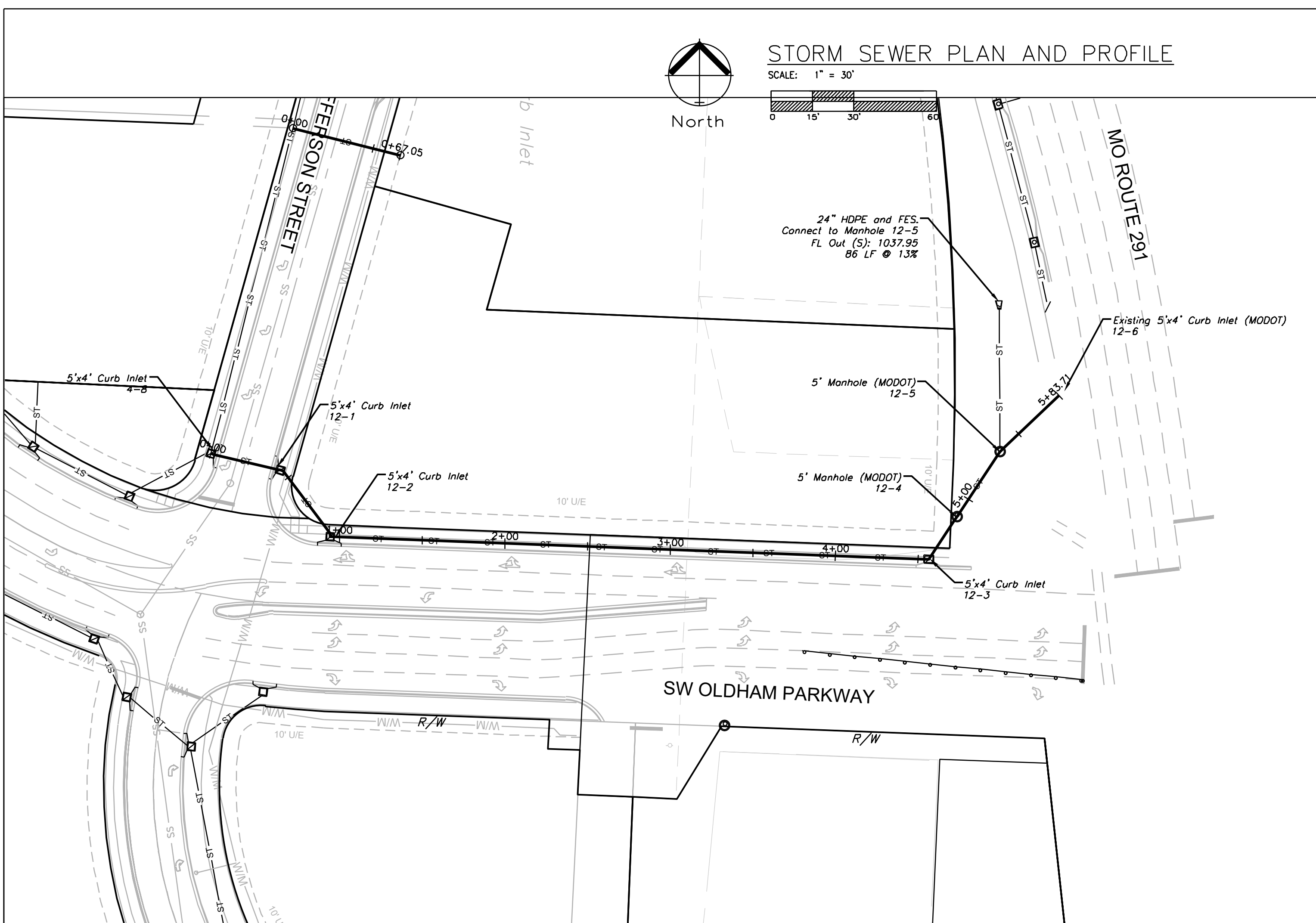
STORM SEWER PLAN AND PROFILE

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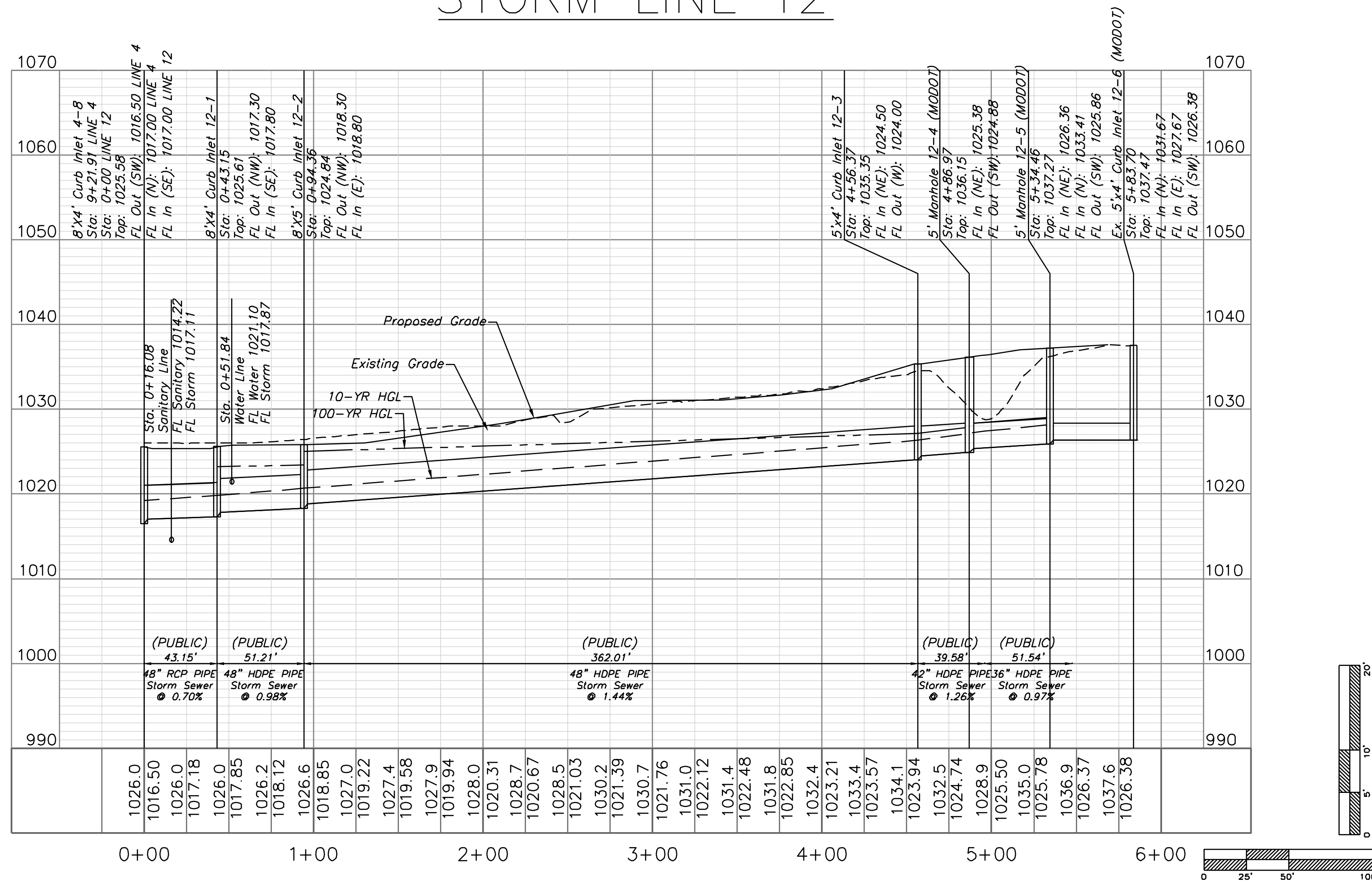


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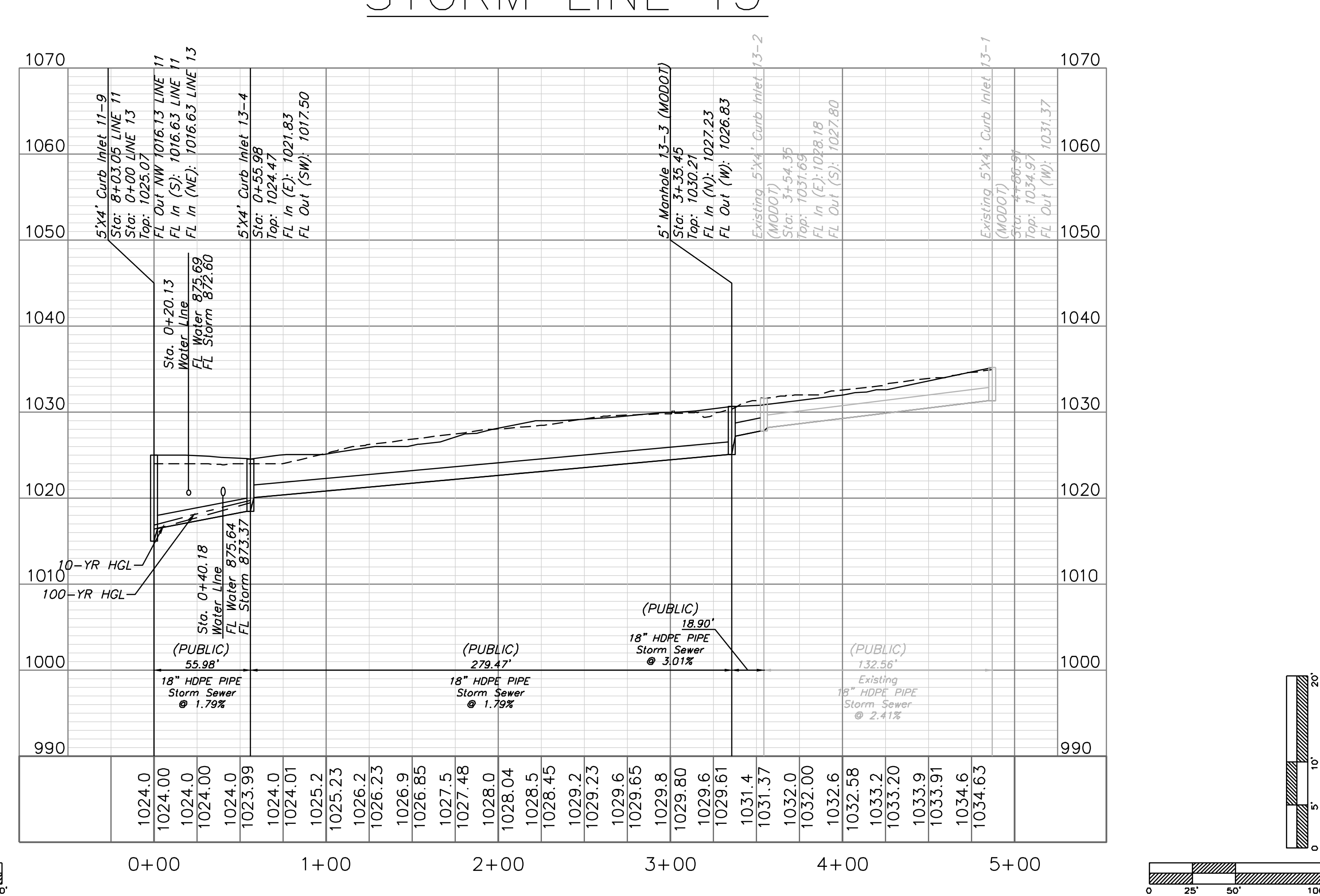




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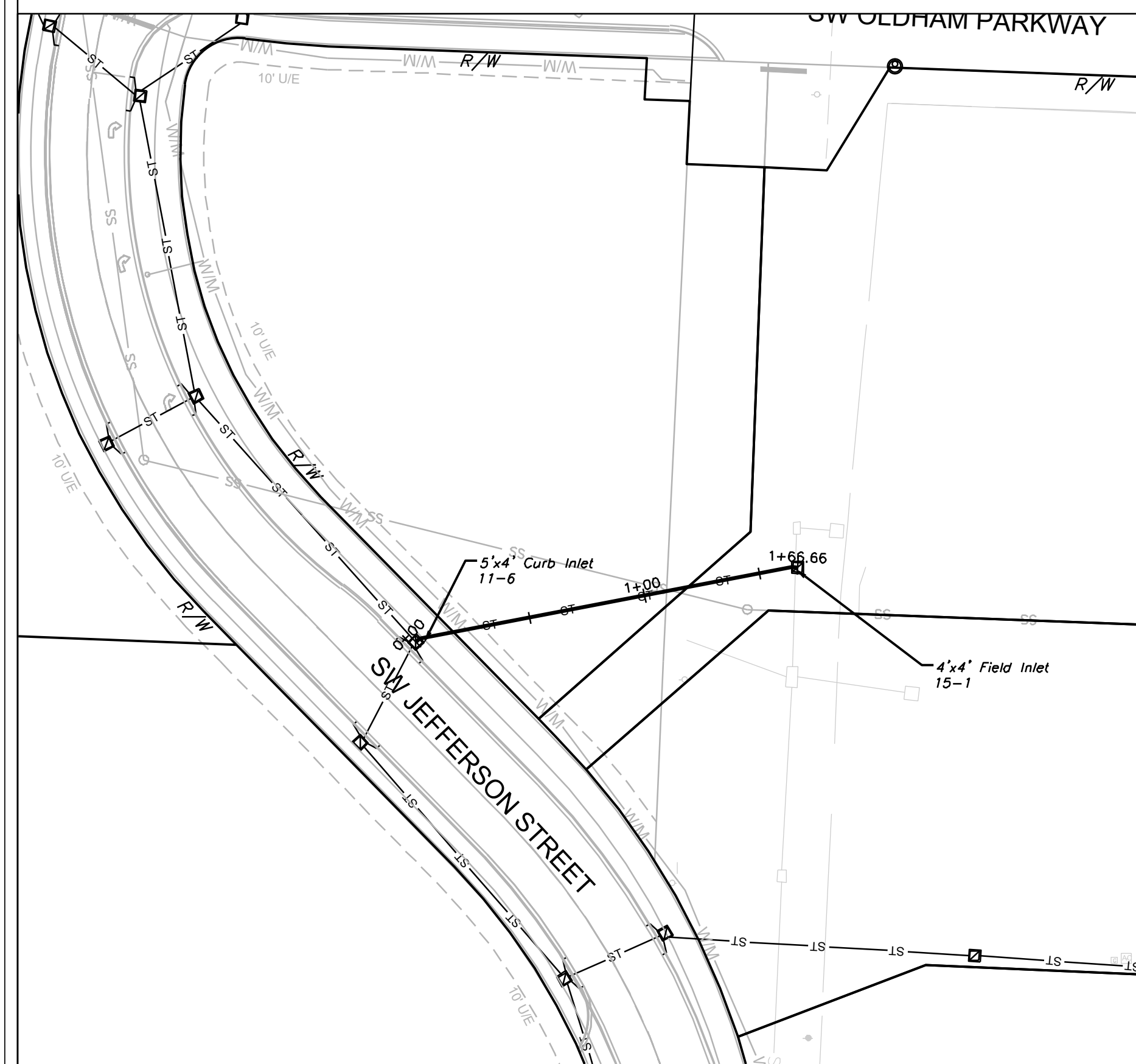
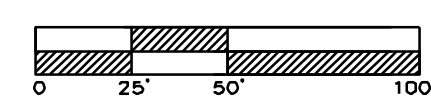
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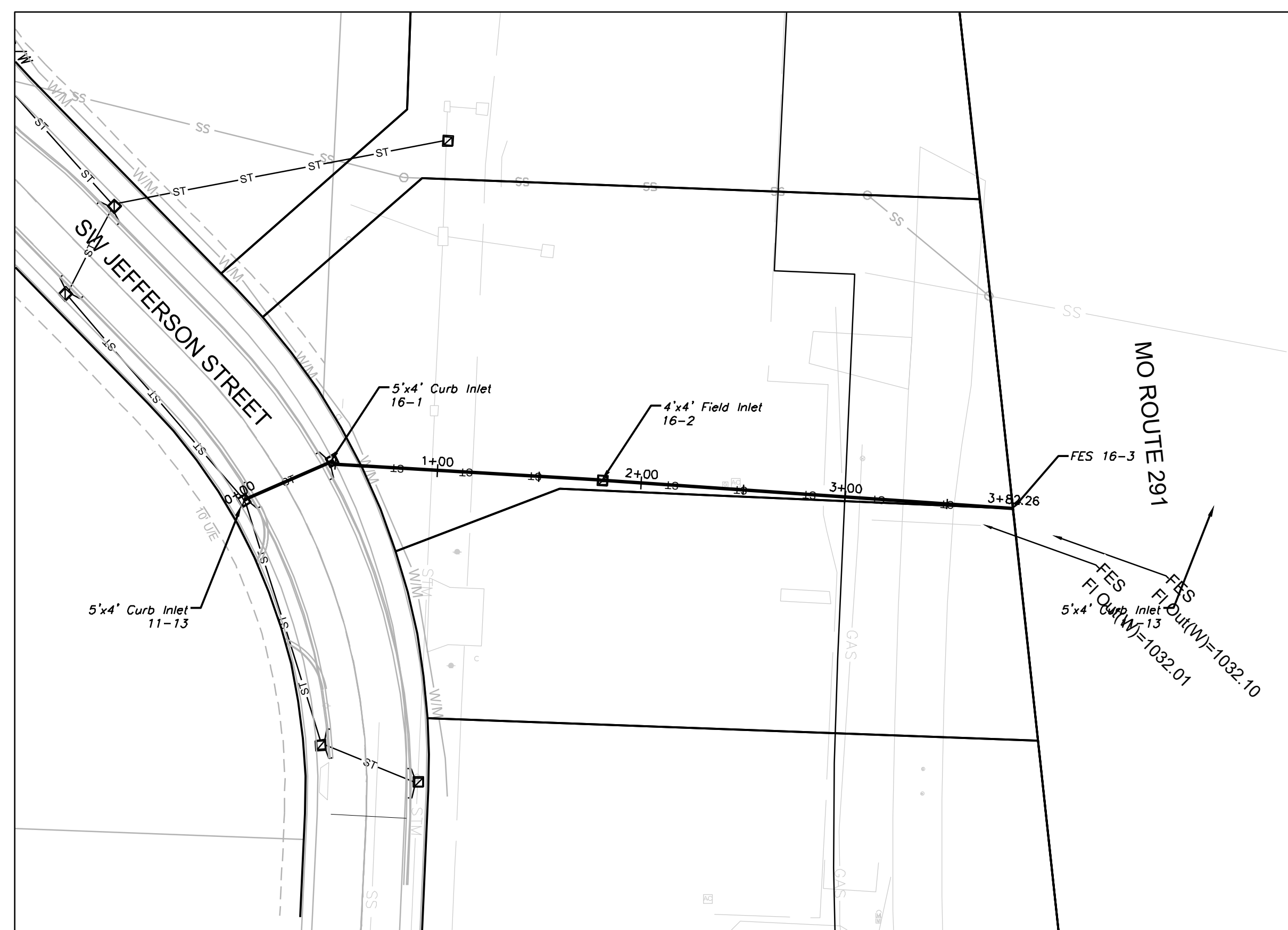
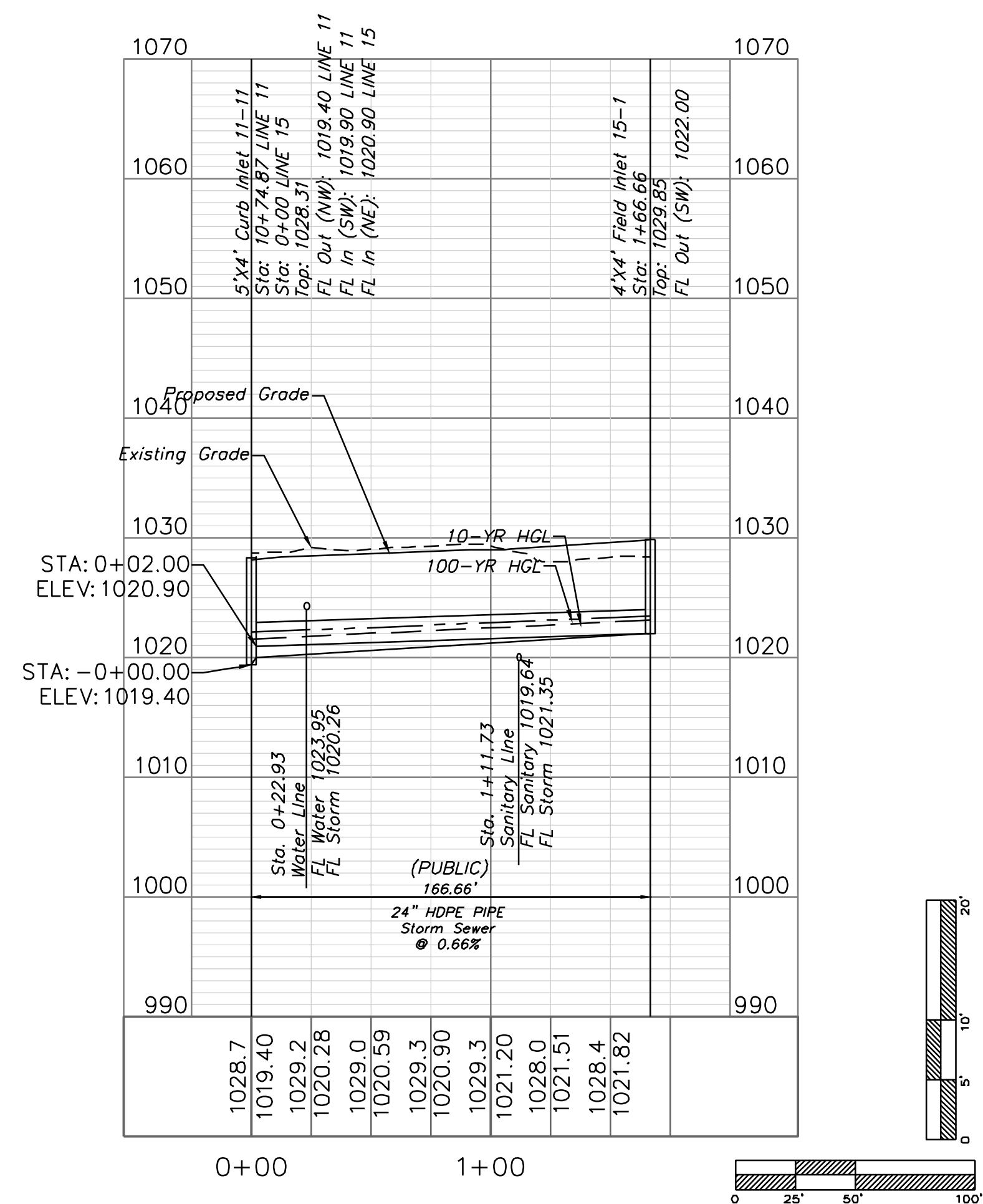


STORM SEWER PLAN AND PROFILE

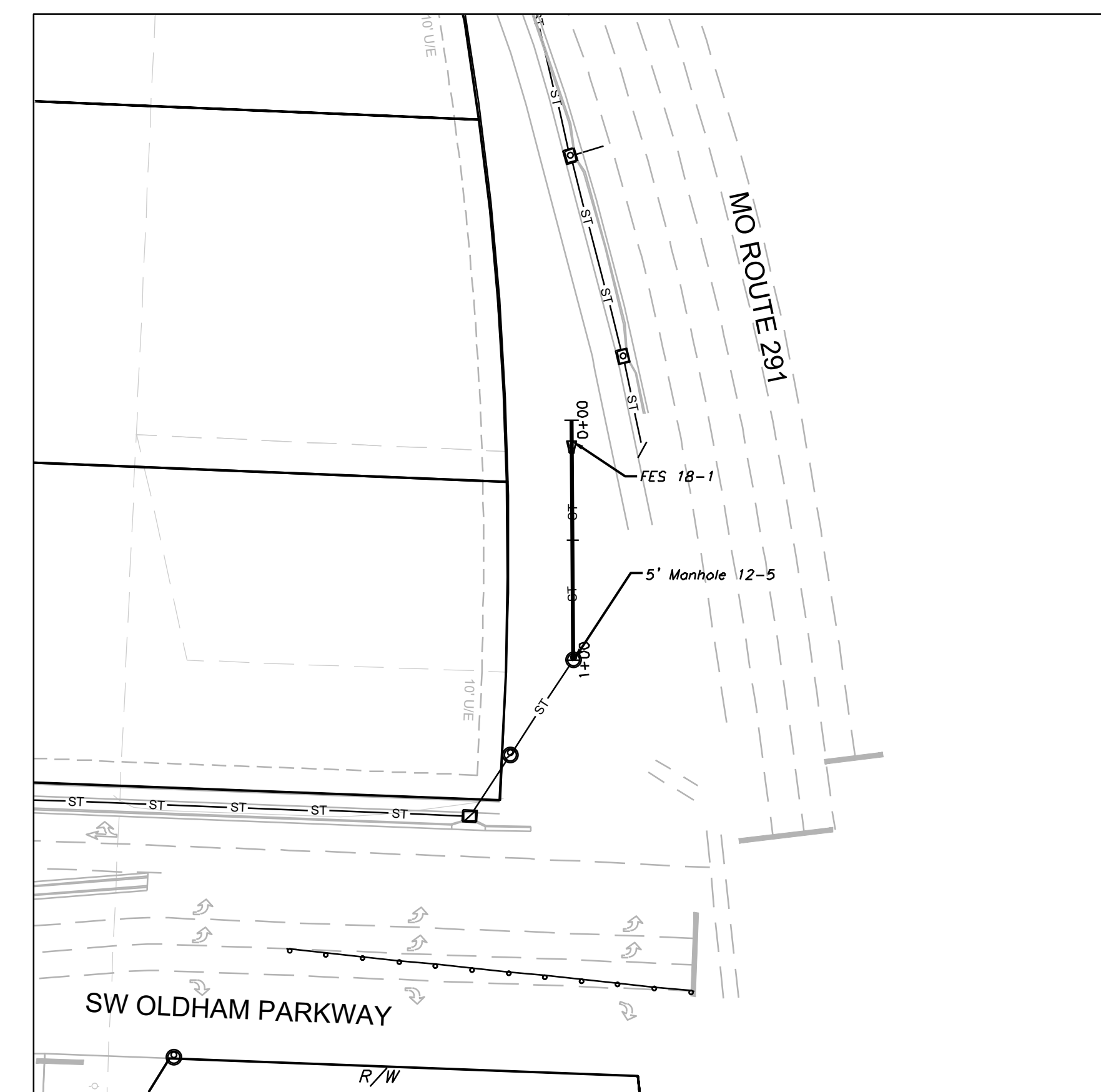
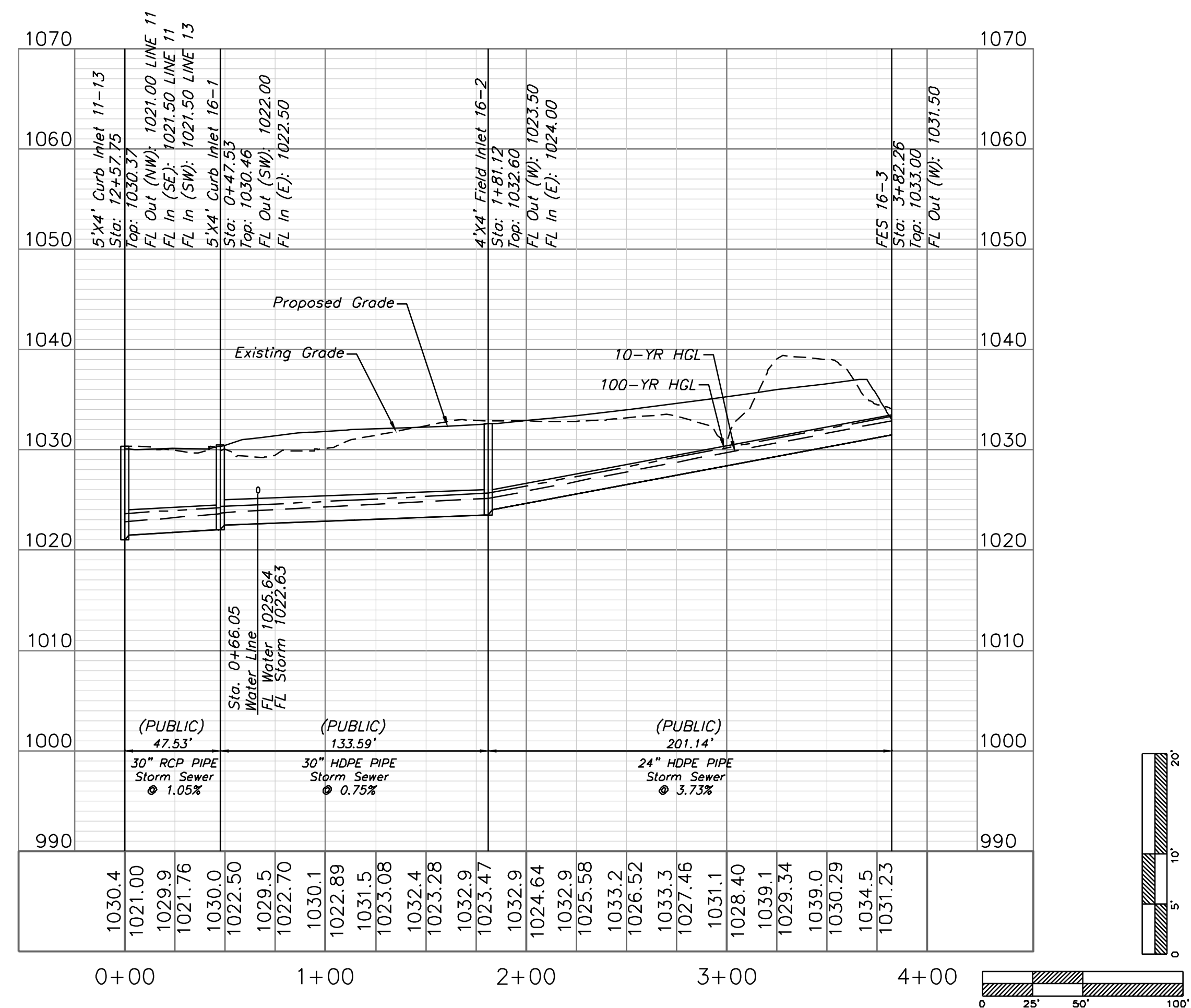
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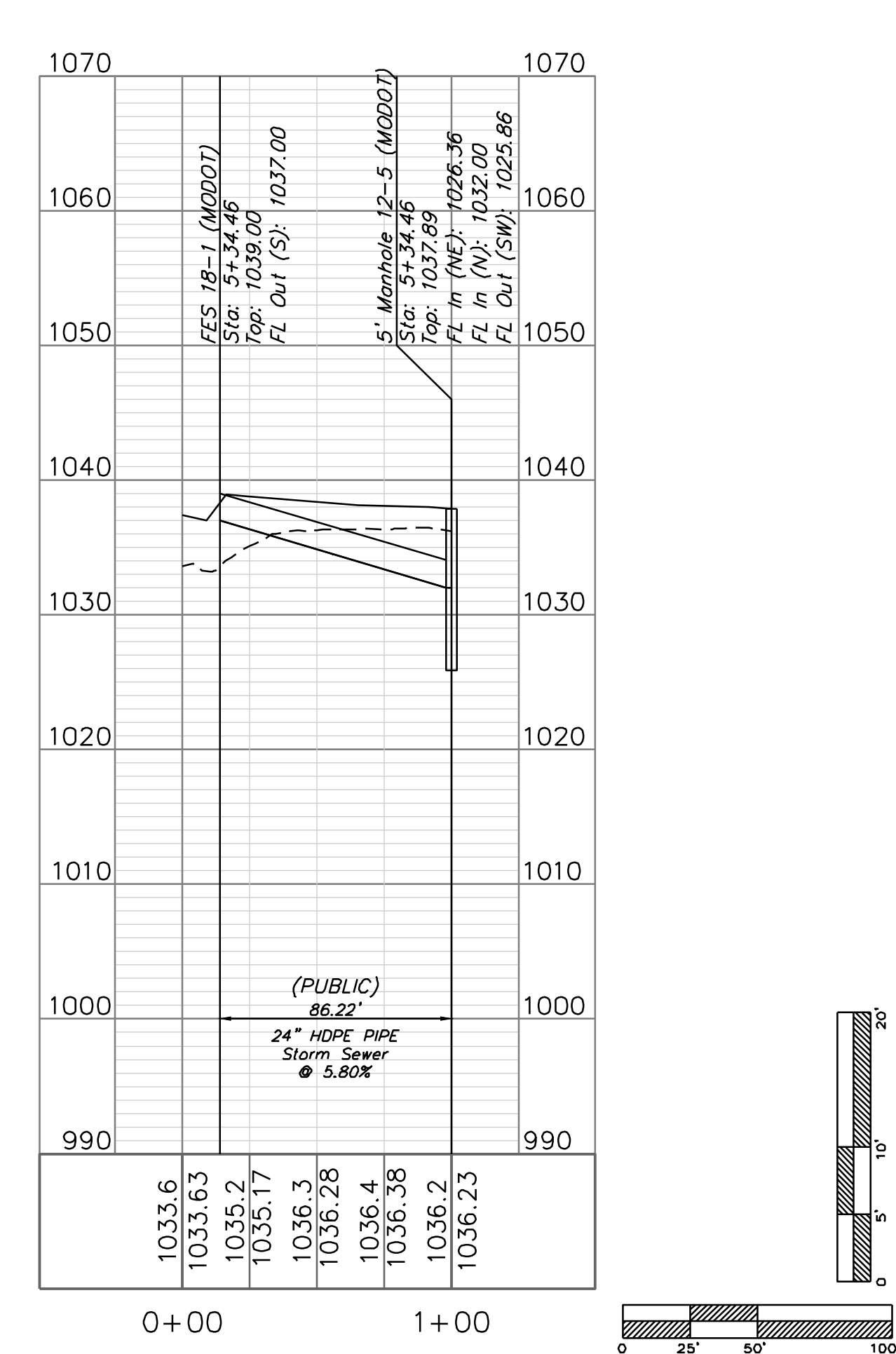
STORM LINE 15

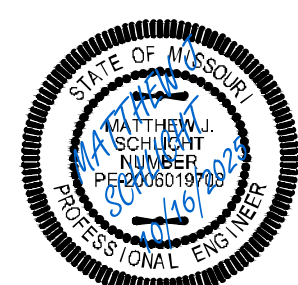


STORM LINE 16



STORM LINE 18

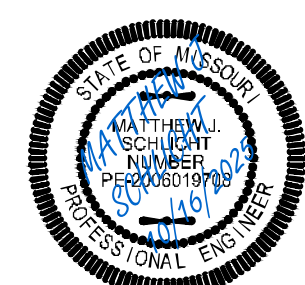




REVISIONS

- REV. 12/10/2024
- REV. 1/2/2025
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- REV. 3/5/2025
- REV. 3/24/2025
- REV. 4/15/2025
- REV. 10/16/2025

10-YEAR 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	0.8	7.1	6.77	0.68	3.68	0	3.68	0	Curb	5.8	6	Sag	2	0.02	0.02	9	1.05	n/a	n/a	0.3	15.14	Sag	
1-2	1-3	0.23	6.3	6.98	0.68	1.09	0	1.09	0	Dp-Curb	6	16	Sag	n/a	0.02	0.02	....	0.08	n/a	n/a	0.08	4.01	Sag	
1-3	1-4	0.97	6.5	6.92	0.68	4.57	0	4.57	0	Dp-Curb	6	20	Sag	....	0.02	0.02	....	0.18	n/a	n/a	0.18	8.97	Sag	
1-4	1-5	0.2	6.3	6.98	0.68	0.95	0	0.95	0	Dp-Curb	6	16	Sag	n/a	0.02	0.02	....	0.07	n/a	n/a	0.07	3.65	Sag	
1-5	1-6	7.54	9.3	6.26	0.68	32.11	0	32.11	0	Dp-Curb	6	16	Sag	....	0.02	0.02	....	0.81	n/a	n/a	0.81	40.39	Sag	
1-6	1-7	0.76	6.2	7	0.68	3.62	0	3.62	0	Dp-Curb	6	16	Sag	....	0.02	0.02	....	0.18	n/a	n/a	0.18	8.92	Sag	
1-7	1-8	0.2	5.2	7.28	0.68	0.99	0	0.99	0	Dp-Curb	6	16	Sag	....	0.02	0.02	....	0.08	n/a	n/a	0.08	3.76	Offsite	
1-8	1-9	0.45	8.1	6.53	0.68	2	0	1.85	0.15	Curb	5.8	5	0.015	2	0.05	0.02	9	0.96	0.08	1.69	0.21	7.37	Sag	
1-5	2-1	1.32	7.3	6.72	0.68	6.03	0	6.03	0	Dp-Curb	6	16	Sag	....	0.02	0.02	....	0.25	n/a	n/a	0.25	12.53	Sag	
3-1	3-2	24.42	21.9	4.44	0.68	73.75	0	73.75	0	Dp-Curb	6	24	Sag	....	0.02	0.02	....	1.56	n/a	n/a	1.56	77.9	Sag	
3-2	EX CI	3.68	30	3.77	0.68	9.43	0	9.43	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.42	n/a	n/a	0.67	30.51	Sag	
4-1	4-2	0.46	7.1	6.77	0.68	2.12	0	2.12	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.04	n/a	n/a	0.29	11.26	....	
4-2	4-3	2.8	8.7	6.39	0.68	12.17	0	12.17	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.53	n/a	n/a	0.78	36.16	4-6L	
4-3	4-4	0	0	0	0.68	0	....	....	....	MH	....	....	....	....	....	....	....	....	....	....	....	....	Sag	
4-4	4-5	0.34	5.7	7.14	0.68	1.65	0.66	2.31	0	Curb	5.8	8	0.021	2	0.05	0.02	9	0.96	0	0	0.21	7.29	Sag	
4-5	4-6L	0.21	6.6	6.9	0.68	0.98	2.16	3.14	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.1	n/a	n/a	0.35	14.66	....	
4-6L	4-6R	0.25	6.6	6.9	0.68	1.17	0	1.17	0	Curb	5.8	5	Sag	2	0.05	0.02	9	0.96	n/a	n/a	0.21	7.59	4-6L	
4-6L	4-6B	1.62	7.7	6.62	0.68	7.29	0	7.29	0	Hdwall	....	....	....	....	....	....	....	....	....	....	....	....	4-7	
4-6L	4-7	0.46	7.5	6.67	0.68	2.09	6.64	6.56	2.16	Curb	5.8	8	0.01	2	0.05	0.02	9	1.1	0.23	8.32	0.35	14.69	4-8	
4-7	4-8	0.21	6.5	6.92	0.68	0.99	0	0.99	0	Curb	5.8	8	0.018	2	0.05	0.02	9	0.91	0	0	0.16	5.06	12-1	
4-8	4-9	0.1	5.7	7.14	0.68	0.49	0	0.49	0	Curb	5.8	5	0.033	2	0.05	0.02	9	0.86	0	0	0.11	2.72	11-5	
4-9	4-10	0.28	5.5	7.2	0.68	1.37	0	1.3	0.07	Curb	5.8	5	0.033	2	0.05	0.02	9	0.91	0.06	1.12	0.16	5.12	5-1	
4-4	5-1	0.21	6.5	6.92	0.68	0.99	0	0.99	0	Curb	5.8	5	0.018	2	0.05	0.02	9	0.91	0	0	0.16	5.06	Sag	
5-1	5-2	0.16	5.8	7.11	0.68	0.77	0	0.77	0	Curb	5.8	5	0.015	2	0.05	0.02	9	0.9	0	0	0.15	4.67	Sag	
5-2	5-3L	0.2	7.1	6.77	0.68	0.92	0	0.92	0	Curb	5.8	5	Sag	2	0.05	0.02	9	0.94	n/a	n/a	0.19	6.46	....	
5-3L	5-3R	0.27	6.5	6.92	0.68	1.27	0	1.27	0	Curb	5.8	5	Sag	2	0.05	0.02	9	0.97	n/a	n/a	0.22	8.01	5-3L	
5-3L	5-3B	1.2	7.2	6.74	0.68	5.5	0	5.5	0	Hdwall	....	....	....	....	....	....	....	....	....	....	....	....	5-4	
5-3L	5-4	0.12	5.6	7.17	0.68	0.58	0	0.58	0	Curb	5.8	5	0.014	2	0.05	0.02	9	0.89	0	0	0.14	4.08	10-1	
5-4	5-5	0.18	7.4	6.69	0.68	0.82	0	0.82	0	Curb	5.8	5	0.014	2	0.05	0.02	9	0.91	0	0	0.16	4.9	Sag	
5-5	5-6	0.16	7.8	6.6	0.68	0.72	0	0.72	0	Curb	5.8	5	0.013	2	0.05	0.02	9	0.9	0	0	0.15	4.66	4-5	
5-6	5-7	2.34	9.2	6.28	0.68	10	0	10	0	Dp-Curb	6	16	Sag	....	0.02	0.02	....	0.35	n/a	n/a	0.35	17.56	1-4	
5-1	6-1	0.66	7.1	6.77	0.68	3.04	0	2.38	0.66	Curb	5.8	5	0.018	2	0.05	0.02	9	0.98	0.14	4.06	0.23	8.49	1-4	
5-2	7-1	0.18	6.7	6.87	0.68	0.84	0	0.84	0	Curb	5.8	5	0.011	2	0.05	0.02	9	0.92	0	0	0.17	5.28	6-1	
7-1	7-2	0.3	6.7	6.87	0.68	1.4	0	1.4	0	Curb	5.8	5	0.011	2	0.05	0.02	9	0.94	0	0	0.19	6.74	9-1L	
5-2	8-1	0.21	6.6	6.9	0.68	0.98	0	0.98	0	Curb	5.8	5	0.013	2	0.05	0.02	9	0.92	0	0	0.17	5.48	8-2	
8-1	8-2	0.76	6.5	6.92	0.68	3.58	0	2.74	0.84	Curb	5.8	5	0.013	2	0.05	0.02	9	1	0.16	5.05	0.25	9.74	....	
8-2	8-3	0	0	0	0.68	0	0	0	0	Curb	5.8	5	0.011	2	0.05	0.02	9	0.75	0	0	0	0	Sag	
8-3	8-4	0.88	6.7	6.87	0.68	4.11	0	4.11	0	Hdwall	....	....	....	....	....	....	....	....	....	....	....	....	Sag	
5-3	9-1L	1.31	6.6	6.9	0.68	6.14	0.84	6.98	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.31	n/a	n/a	0.56	24.96	9-1L	
9-1L	9-1R	0.96	6.8	6.84	0.68	4.47	0	4.47	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.18	n/a	n/a	0.43	18.54	4-7	
5-4	10-1	0.28	5.6	7.17	0.68	1.36	0	1.36	0	Curb	5.8	5	0.014	2	0.05	0.02	9	0.94	0.02	0.32	0.19	6.3	4-7	
4-8	12-1	2.72	7.7	6.62	0.68	12.25	0.07	7.22	5.1	Curb	5.8	8	0.018	2	0.05	0.02	9	1.11	0.27	10.54	0.36	14.98	12-2	
12-1	12-2	1.59	7.4	6.69	0.68	7.24	0.21	5.91	1.54	Curb	5.8	8	0.011	2	0.05	0.02	9	1.08	0.2	7.03	0.33	13.54	Sag	
12-2	12-3	0.41	8.7	6.39	0.68	1.78	0	1.57	0.21	Curb	5.8	5	0.032	2	0.05	0.02	9	0.93	0.08	1.68	0.18	5.87	....	
12-3	12-4	0.19	6.5	6.92	0.68	0.89	0	0.89	0	Dp-Curb	6	24	Sag	....	0.02	0.02	....	0.05	n/a	n/a	0.05	2.68	....	
12-4	12-5	21.58	14.8	5.3	0.51	58.28	0	58.28	0	Hdwall	....	....	....	....	....	....	....	....	....	....	....	....	Sag	
11-1	11-2	0	0	0	0.68	0	....	....	....	MH	....	....	....	....	....	....	....	....	....	....	....	....	Sag	
11-2	11-3	0.43	7.3	6.72	0.68	1.96	0	1.96	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.02	n/a	n/a	0.27	10.71	11-6R	
11-3	11-4	0.13	5.6	7.17	0.68	0.63	0	0.63	0	Curb	5.8	5	Sag	2	0.05	0.02	9	0.91	n/a	n/a	0.16	5.04	Sag	
11-4	11-5	0.12	5.8	7.11	0.68	0.58	0	0.58	0	Curb	5.8	6	0.011	2	0.05	0.02	9	0.9	0	0	0.15	4.34	Sag	
11-5	11-6R	0.24	7.5	6.67	0.68	1.09	1.14	2.23	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.04	n/a	n/a	0.29	11.65	11-6R	
11-6R	11-6L	0.53	7.9	6.57	0.68	2.37	0	2.37	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.05	n/a	n/a	0.3	12.14	11-7	
11-6R	11-7	0.43	8.8	6.37	0.68	1.86	2.44	3.16	1.14	Curb	5.8	5	0.01	2	0.05	0.02	9	1.03	0.19	6.26	0.28	11.08	Sag	
11-7	11-8	0.21	6.8	6.84	0.68	0.98	0.41	1.39	0	Curb	5.8	6	0.01	2	0.05	0.02	9	0.95	0	0	0.2	6.86	11-9	
11-8	11-9	0.94	7.9	6.57	0.68	4.2	0	4.2	0	Curb	5.8	6	Sag	2	0.05	0.02	9	1.14	n/a	n/a	0.39	16.53	11-10	
11-9	11-10	0.17	6.1	7.03	0.68	0.81	0.01	0.82	0	Curb	5.8	5	0.011	2	0.05	0.02	9	0.91	0	0	0.16	5.23	11-11	
11-10	11-11	0.22	5.9	7.08	0.68	1.06	0.53	1.58	0.01	Curb	5.8	5	0.011	2	0.05	0.02	9	0.95	0.03	0.69	0.2	7.14	11-12	
11-11	11-12	0.47	5.9	7.08	0.68	2.26	0.19	2.21	0.25	Curb	5.8	5	0.011	2	0.05	0.02	9	0.98	0					



REVISIONS

- △ REV. 12/10/2024
△ REV. 1/2/2025
△ REV. 2/6/2025
REV. 3/5/2025
△ REV. 3/24/2025
△ REV. 4/15/2025
REV. 10/16/2025

10-YEAR 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)	Grnc/RimDn (ft)	Grnc/RimUp (ft)
1-1	1-2	54.4	0.8	12.47	0.68	0.54	8.48	7.1	11.2	5.9	49.89	49.89	358.06	6.14	48	3.68	996.00	998.00	999.03	1000.12	0.00	1023.50
1-2	1-3	221.1	0.23	11.67	0.68	0.16	7.94	6.3	10.9	5.9	47.19	47.19	234.95	10.93	48	1.58	1000.50	1004.00	1001.72	1006.06	1023.50	1024.80
1-3	1-4	238.75	0.97	11.44	0.68	0.66	7.78	6.5	10.5	6	46.87	46.87	119.71	9.65	42	0.84	1005.00	1007.00	1006.52	1009.14	1024.80	1025.15
1-4	1-5	252.57	0.2	10.47	0.68	0.14	7.12	6.3	10	6.1	43.58	43.58	116.39	8.65	42	0.79	1007.50	1009.50	1009.14	1011.56	1025.15	1024.50
1-5	1-6	261.5	7.54	10.27	0.68	5.13	6.98	9.3	9.5	6.2	43.46	43.46	102.3	8.8	42	0.61	1010.00	1011.60	1011.59	1013.65	1024.50	1017.50
1-6	1-7	119.52	0.76	1.41	0.68	0.52	0.96	6.2	9.1	6.3	6.04	6.04	25.52	5.63	24	0.75	1013.10	1014.00	1013.76	1014.87	1017.50	1019.25
1-7	1-8	229.48	0.2	0.65	0.68	0.14	0.44	5.2	8.5	6.4	2.84	2.84	12.7	6.27	15	2.29	1014.75	1020.00	1015.15	1020.68	1019.25	1026.15
1-8	1-9	157.61	0.45	0.45	0.68	0.31	0.31	8.1	8.1	6.5	2	2	15.68	6.25	15	3.49	1020.50	1026.00	1020.80	1026.56	1026.15	1031.39
1-5	2-1	374.86	1.32	1.32	0.68	0.9	0.9	7.3	7.3	6.7	6.03	6.03	42.68	6.58	24	2.11	1013.10	1021.00	1013.65	1021.87	1017.50	1028.50
3-1	3-2	49.23	24.42	28.1	0.68	16.61	19.11	21.9	30.2	3.8	71.76	71.76	186.41	7.63	42	2.03	996.00	997.00	1000.13	1000.19	0.00	1005.00
3-2	EX Cl	72.67	3.68	3.68	0.68	2.5	2.5	30	30	3.8	9.43	9.43	57.54	5.82	18	17.77	998.00	1010.91	1001.59	1012.10	1005.00	1015.95
4-1	4-2	44.43	0.46	43.6	0.68	0.31	25.98	7.1	17.8	4.9	127.29	127.29	508	6.48	60	2.25	996.00	997.00	1011.81	1011.87	0.00	1024.00
4-2	4-3	183.92	2.8	43.14	0.68	1.9	25.67	8.7	17.3	5	127.28	127.28	305.8	6.48	60	0.82	1006.00	1007.50	1012.85	1013.11	1024.00	1024.00
4-3	4-4	305.78	0	40.34	0.68	0	23.76	0	16.5	5.1	120.24	120.24	256.16	6.5	60	0.57	1007.75	1009.50	1013.44	1013.67	1024.00	1025.20
4-4	4-5	97.35	0.34	29.96	0.68	0.23	16.7	5.7	16.3	5.1	85.03	85.03	315.15	7.19	54	2.57	1010.50	1013.00	1014.37	1015.70	1025.20	1024.65
4-5	4-6L	168.4	0.21	29.62	0.68	0.14	16.47	6.6	16	5.1	84.45	84.45	143.9	10.48	48	0.59	1013.50	1014.50	1015.70	1017.28	1024.65	1023.56
4-6L	4-6R	1	0.25	0.25	0.68	0.17	0.17	6.6	6.6	6.9	1.17	1.17	1320.46	1.37	48	50	1014.50	1015.00	1017.28	1015.31	1023.56	1023.56
4-6L	4-6B	50	1.62	1.62	0.68	1.1	1.1	7.7	7.7	6.6	7.29	7.29	33.44	10.34	18	6	1017.00	1020.00	1017.48	1021.05	1023.56	0.00
4-6L	4-7	65.42	0.46	27.54	0.68	0.31	15.06	7.5	15.9	5.1	77.43	77.43	163.26	9.58	48	0.76	1015.00	1015.50	1017.28	1018.16	1023.56	1023.72
4-7	4-8	56.62	0.21	27.08	0.68	0.14	14.75	6.5	15.8	5.2	76.02	76.02	175.49	9.81	48	0.88	1016.00	1016.50	1018.16	1019.14	1023.72	1025.58
4-8	4-9	293.56	0.1	0.38	0.68	0.07	0.26	5.7	5.8	7.1	1.84	1.84	32.34	4.42	24	2.04	1019.50	1025.50	1019.82	1025.97	1025.58	1033.03
4-9	4-10	58.16	0.28	0.28	0.68	0.19	0.19	5.5	5.5	7.2	1.37	1.37	20.97	3.39	24	0.86	1026.00	1026.50	1026.35	1026.90	1033.03	1034.24
4-4	5-1	33.47	0.21	10.38	0.68	0.14	7.06	6.5	12	5.7	40.53	40.53	228.24	3.24	48	1.49	1010.00	1010.50	1014.37	1014.38	1025.20	1025.48
5-1	5-2	237.82	0.16	9.51	0.68	0.11	6.47	5.8	11.2	5.9	38.09	38.09	94.82	4.79	42	0.53	1011.00	1012.25	1014.55	1014.58	1025.48	1029.28
5-2	5-3L	196.77	0.2	7.02	0.68	0.14	4.77	7.1	10.6	6	28.66	28.66	47.55	5.44	36	0.51	1012.75	1013.75	1015.66	1015.48	1029.28	1028.80
5-3L	5-3R	1	0.27	0.27	0.68	0.18	0.18	6.5	6.5	6.9	1.27	1.27	613.08	1.54	36	50	1013.75	1014.25	1015.48	1014.60	1028.80	1028.80
5-3L	5-3B	25	1.2	1.2	0.68	0.82	0.82	7.2	7.2	6.7	5.5	5.5	16.79	8.87	15	4	1016.00	1017.00	1016.49	1017.95	1028.80	0.00
5-3L	5-4	262.42	0.12	3.08	0.68	0.08	2.09	5.6	9.8	6.2	12.91	12.91	40.31	5.43	30	0.57	1014.25	1015.75	1015.48	1016.96	1028.80	1033.29
5-4	5-5	108.31	0.18	2.68	0.68	0.12	1.82	7.4	9.5	6.2	11.34	11.34	44.37	6.42	30	0.69	1016.25	1017.00	1017.11	1018.13	1033.29	1034.91
5-5	5-6	65.85	0.16	2.5	0.68	0.11	1.7	7.8	9.3	6.3	10.64	10.64	19.71	5.99	24	0.76	1017.50	1018.00	1018.55	1019.17	1034.91	1035.23
5-6	5-7	45.64	2.34	2.34	0.68	1.59	1.59	9.2	9.2	6.3	10	10	30.78	7.1	24	1.1	1018.50	1019.00	1019.28	1020.13	1035.23	1035.00
5-1	6-1	86.62	0.66	0.66	0.68	0.45	0.45	7.1	7.1	6.8	3.04	3.04	32.8	2.88	18	5.77	1013.00	1018.00	1014.55	1015.66	1025.48	1026.13
5-2	7-1	282.43	0.18	0.48	0.68	0.12	0.33	6.7	6.9	6.8	2.22	2.22	19.56	2.47	18	2.05	1014.20	1020.00	1015.66	1020.56	1029.28	1029.10
7-1	7-2	51.16	0.3	0.3	0.68	0.2	0.2	6.7	6.7	6.9	1.4	1.4	6.38	3.76	15	0.98	1020.50	1021.00	1020.90	1021.47	1029.10	1029.20
5-2	8-1	118.16	0.21	1.85	0.68	0.14	1.26	6.6	7.8	6.6	8.31	8.31	82.27	3.9	24	7.83	1013.75	1023.00	1015.66	1024.03	1029.28	1030.58
8-1	8-2	49.1	0.76	1.64	0.68	0.52	1.12	6.5	7.6	6.6	7.4	7.4	27.95	6.22	24	1.53	1023.50	1024.25	1024.20	1025.22	1030.58	1030.58
8-2	8-3	306.93	0	0.88	0.68	0	0.6	0	6.8	6.8	4.09	4.09	16.98	6.18	18	1.55	1024.75	1029.50	1025.25	1030.27	1030.58	1036.46
8-3	8-4	76.99	0.88	0.88	0.68	0.6	0.6	6.7	6.7	6.9	4.11	4.11	51.6	10.95	18	14.29	1030.00	1041.00	1030.29	1041.78	1036.46	0.00
5-3	9-1L	64.92	1.31	2.27	0.68	0.89	1.54	6.6	6.8	6.8	10.56	10.56	16.03	11.34	15	6.16	1016.00	1020.00	1016.74	1021.20	1028.80	1028.80
9-1L	9-1R	1	0.96	0.96	0.68	0.65	0.65	6.8	6.8	6.8	4.47	4.47	45.66	4.34	15	50	1020.00	1020.50	1021.20	1021.36	1028.80	1028.80
5-4	10-1	67.91	0.28	0.28	0.68	0.19	0.19	5.6	5.6	7.2	1.36	1.36	21.46	6.54	15	11.04	1017.50	1025.00	1017.71	1025.46	1033.29	1033.04
4-8	12-1	43.15	2.72	26.49	0.68	1.85	14.34	7.7	15.7	5.2	74.1	74.1	119.77	9.3	48	0.7	1017.00	1017.30	1019.28	1019.90	1025.58	1025.61
12-1	12-2	51.21	1.59	23.77	0.68	1.08	12.5	7.4	15.6	5.2	64.71	64.71	184.52	8.89	48	0.98	1017.80	1018.30	1019.90	1020.73	1025.61	1024.84
12-2	12-3	362.01	0.41	22.18	0.68	0.28	11.41	8.7	14.9	5.3	60.2	60.2	223.81	8.98	48	1.44	1018.80	1024.00	1020.73	1026.34	1024.84	1035.35
12-3	12-4	39.58	0.19	21.77	0.68	0.13	11.14	6.5	14.9	5.3	58.84	58.84	147	9.94	42	1.26	1024.50	1025.00	1026.34	1027.40	1035.35	1036.50
12-4	12-5	51.54	21.58	21.58	0.51	11.01	11.01	14.8	14.8	5.3	58.28	58.28	85.4	10.85	36	0.97	1025.50	1026.00	1027.40	1028.47	1036.50	0.00
11-1	11-2	53.05	0	17.17	0.68	0	10.71	0	16.6	5.1	54.09	54.09	464.9	2.76	60	1.89	996.00	997.00	1011.41	1011.42	0.00	1011.00
11-2	11-3	176.56	0.43	17.17	0.68	0.29	10.71	7.3	15.7	5.2	55.36	55.36	825.75	3.36	60	5.95	997.50	1008.00	1011.44	1011.39	1011.00	1022.25
11-3	11-4	99	0.13	16.74	0.68	0.09	10.42	5.6	15.5	5.2	54.19	54.19	145.37	7.07	48	0.61	1009.00	1009.60	1011.51	1011.81	1022.25	1023.75
11-4	11-5	107.78	0.12	16.61	0.68	0.08	10.33	5.8	15.2	5.2	54.05	54.05	145.02	8.21	48	0.6	1009.85	1010.50	1011.81	1012.71	1023.75	1024.30
11																						



REVISIONS

- △ REV. 12/10/2024
△ REV. 1/2/2025
△ REV. 2/6/2025
REV. 3/5/2025
△ REV. 3/24/2025
△ REV. 4/15/2025
REV. 10/16/2025

100-YEAR 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	0.8	7.1	11.96	0.68	6.51	0	6.51	0	Curb	5.8	6	Sag	2	0.02	0.02	9	1.19	n/a	n/a	0.44	22.13	Sag
1-2	1-3	0.23	6.3	12.3	0.68	1.92	0	1.92	0	Dp-Curb	6	16	Sag	n/a	0.02	0.02	.....	0.12	n/a	n/a	0.12	5.85	Sag
1-3	1-4	0.97	6.5	12.21	0.68	8.06	0	8.06	0	Dp-Curb	6	20	Sag	.....	0.02	0.02	.....	0.26	n/a	n/a	0.26	13.1	Sag
1-4	1-5	0.2	6.3	12.3	0.68	1.67	0.26	1.93	0	Dp-Curb	6	16	Sag	n/a	0.02	0.02	.....	0.12	n/a	n/a	0.12	5.86	Sag
1-5	1-6	7.54	9.3	11.13	0.68	57.06	0	57.06	0	Dp-Curb	6	16	Sag	.....	0.02	0.02	.....	2.01	n/a	n/a	2.01	100.59	Sag
1-6	1-7	0.76	6.2	12.34	0.68	6.38	0	6.38	0	Dp-Curb	6	16	Sag	.....	0.02	0.02	.....	0.26	n/a	n/a	0.26	13.01	Sag
1-7	1-8	0.2	5.2	12.8	0.68	1.74	0	1.74	0	Dp-Curb	6	16	Sag	.....	0.02	0.02	.....	0.11	n/a	n/a	0.11	5.47	Offsite
1-8	1-9	0.45	8.1	11.57	0.68	3.54	0	2.67	0.87	Curb	5.8	5	0.015	2	0.05	0.02	9	1	0.16	4.97	0.25	9.41	Sag
1-5	2-1	1.32	7.3	11.88	0.68	10.66	0	10.66	0	Dp-Curb	6	16	Sag	.....	0.02	0.02	.....	0.37	n/a	n/a	0.37	18.33	Sag
3-1	3-2	24.42	21.9	8.06	0.68	133.86	0	133.86	0	Dp-Curb	6	24	Sag	.....	0.02	0.02	.....	4.56	n/a	n/a	4.56	228	Sag
3-2	EX Cl	3.68	30	6.9	0.68	17.27	0	17.27	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.72	n/a	n/a	0.97	45.67	Sag
4-1	4-2	0.46	7.1	11.96	0.68	3.74	0	3.74	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.14	n/a	n/a	0.39	16.47	.....
4-2	4-3	2.8	8.7	11.34	0.68	21.6	0	21.6	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.87	n/a	n/a	1.12	53.02	4-6L
4-3	4-4	0	0	0	0.68	0	.....	.....	.....	MH	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Sag
4-4	4-5	0.34	5.7	12.57	0.68	2.91	2.15	4.29	0.76	Curb	5.8	8	0.021	2	0.05	0.02	9	1.01	0.14	4.23	0.26	10.18	Sag
4-5	4-6L	0.21	6.6	12.17	0.68	1.74	11.97	13.71	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.59	n/a	n/a	0.84	39.15	.....
4-6L	4-6R	0.25	6.6	12.17	0.68	2.07	0	2.07	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.03	n/a	n/a	0.28	11.09	4-6L
4-6L	4-6B	1.62	7.7	11.72	0.68	12.91	0	12.91	0	Hdwall	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4-7
4-6L	4-7	0.46	7.5	11.8	0.68	3.69	18.05	10.54	11.21	Curb	5.8	8	0.01	2	0.05	0.02	9	1.23	0.38	16.2	0.48	20.92	4-8
4-7	4-8	0.21	6.5	12.21	0.68	1.74	0	1.74	0	Curb	5.8	8	0.018	2	0.05	0.02	9	0.94	0	0	0.19	6.65	12-1
4-8	4-9	0.1	5.7	12.57	0.68	0.85	0	0.85	0	Curb	5.8	5	0.033	2	0.05	0.02	9	0.89	0	0	0.14	3.96	11-5
4-9	4-10	0.28	5.5	12.66	0.68	2.41	0	1.9	0.51	Curb	5.8	5	0.033	2	0.05	0.02	9	0.94	0.12	2.81	0.19	6.71	5-1
4-4	5-1	0.21	6.5	12.21	0.68	1.74	0	1.65	0.1	Curb	5.8	5	0.018	2	0.05	0.02	9	0.94	0.07	1.41	0.19	6.66	Sag
5-1	5-2	0.16	5.8	12.52	0.68	1.36	0	1.36	0	Curb	5.8	5	0.015	2	0.05	0.02	9	0.93	0.02	0.43	0.18	6.19	Sag
5-2	5-3L	0.2	7.1	11.96	0.68	1.63	0	1.63	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1	n/a	n/a	0.25	9.45	.....
5-3L	5-3R	0.27	6.5	12.21	0.68	2.24	0	2.24	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.04	n/a	n/a	0.29	11.7	5-3L
5-3L	5-3B	1.2	7.2	11.92	0.68	9.73	0	9.73	0	Hdwall	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5-4
5-3L	5-4	0.12	5.6	12.61	0.68	1.03	0.01	1.04	0	Curb	5.8	5	0.014	2	0.05	0.02	9	0.92	0	0	0.17	5.52	10-1
5-4	5-5	0.18	7.4	11.84	0.68	1.45	0	1.44	0.01	Curb	5.8	5	0.014	2	0.05	0.02	9	0.94	0.03	0.6	0.19	6.47	Sag
5-5	5-6	0.16	7.8	11.68	0.68	1.27	0	1.27	0	Curb	5.8	5	0.013	2	0.05	0.02	9	0.93	0	0	0.18	6.19	4-5
5-6	5-7	2.34	9.2	11.16	0.68	17.76	0	17.76	0	Dp-Curb	6	16	Sag	.....	0.02	0.02	.....	0.52	n/a	n/a	0.52	25.76	1-4
5-1	6-1	0.66	7.1	11.96	0.68	5.37	0.05	3.27	2.15	Curb	5.8	5	0.018	2	0.05	0.02	9	1.03	0.21	7.31	0.28	10.81	1-4
5-2	7-1	0.18	6.7	12.13	0.68	1.48	0	1.48	0	Curb	5.8	5	0.011	2	0.05	0.02	9	0.95	0.02	0.34	0.2	6.91	6-1
7-1	7-2	0.3	6.7	12.13	0.68	2.47	0	2.22	0.25	Curb	5.8	5	0.011	2	0.05	0.02	9	0.98	0.11	2.52	0.23	8.64	9-1L
5-2	8-1	0.21	6.6	12.17	0.68	1.74	0	1.69	0.05	Curb	5.8	5	0.013	2	0.05	0.02	9	0.95	0.06	1.18	0.2	7.15	8-2
8-1	8-2	0.76	6.5	12.21	0.68	6.31	0	3.72	2.59	Curb	5.8	5	0.013	2	0.05	0.02	9	1.06	0.23	8.5	0.31	12.26	.....
8-2	8-3	0	0	0	0.68	0	0	0	0	Curb	5.8	5	0.011	2	0.05	0.02	9	0.75	0	0	0	0	Sag
8-3	8-4	0.88	6.7	12.13	0.68	7.26	0	7.26	0	Hdwall	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Sag
5-3	9-1L	1.31	6.6	12.17	0.68	10.84	2.87	13.71	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.59	n/a	n/a	0.84	39.16	9-1L
9-1L	9-1R	0.96	6.8	12.08	0.68	7.89	0	7.89	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.35	n/a	n/a	0.6	27.08	4-7
5-4	10-1	0.28	5.6	12.61	0.68	2.4	0	2.12	0.28	Curb	5.8	5	0.014	2	0.05	0.02	9	0.97	0.11	2.5	0.22	8.1	4-7
4-8	12-1	2.72	7.7	11.72	0.68	21.68	0.51	9.59	12.59	Curb	5.8	8	0.018	2	0.05	0.02	9	1.19	0.36	15.11	0.44	18.83	12-2
12-1	12-2	1.59	7.4	11.84	0.68	12.8	0.92	8.26	5.46	Curb	5.8	8	0.011	2	0.05	0.02	9	1.15	0.3	11.97	0.4	17.2	Sag
12-2	12-3	0.41	8.7	11.34	0.68	3.16	0	2.24	0.92	Curb	5.8	5	0.032	2	0.05	0.02	9	0.96	0.14	4.17	0.21	7.63	.....
12-3	12-4	0.19	6.5	12.21	0.68	1.58	0	1.58	0	Dp-Curb	6	24	Sag	.....	0.02	0.02	.....	0.08	n/a	n/a	0.08	3.91	.....
12-4	12-5	21.58	14.8	9.52	0.51	104.73	0	104.73	0	Hdwall	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Sag
11-1	11-2	0	0	0	0.68	0	.....	.....	.....	MH	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Sag
11-2	11-3	0.43	7.3	11.88	0.68	3.47	0	3.47	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.12	n/a	n/a	0.37	15.67	11-6R
11-3	11-4	0.13	5.6	12.61	0.68	1.11	0	1.11	0	Curb	5.8	5	Sag	2	0.05	0.02	9	0.96	n/a	n/a	0.21	7.34	Sag
11-4	11-5	0.12	5.8	12.52	0.68	1.02	0.1	1.12	0	Curb	5.8	6	0.011	2	0.05	0.02	9	0.93	0	0	0.18	6.07	Sag
11-5	11-6R	0.24	7.5	11.8	0.68	1.93	4.87	6.79	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.3	n/a	n/a	0.55	24.51	11-6R
11-6R	11-6L	0.53	7.9	11.64	0.68	4.2	0	4.2	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.17	n/a	n/a	0.42	17.78	11-7
11-6R	11-7	0.43	8.8	11.31	0.68	3.31	6.35	4.79	4.87	Curb	5.8	5	0.01	2	0.05	0.02	9	1.12	0.29	11.65	0.37	15.28	Sag
11-7	11-8	0.21	6.8	12.08	0.68	1.73	1.63	3.04	0.32	Curb	5.8	6	0.01	2	0.05	0.02	9	1.01	0.12	3.12	0.26	10.02	11-9
11-8	11-9	0.94	7.9	11.64	0.68	7.44	0.55	7.99	0	Curb	5.8	6	Sag	2	0.05	0.02	9	1.32	n/a	n/a	0.57	25.39	11-10
11-9	11-10	0.17	6.1	12.39	0.68	1.43	1.71	2.59	0.55	Curb	5.8	5	0.011	2	0.05	0.02	9	1	0.14	4.22	0.25	9.56	11-11
11-10	11-11	0.22	5.9	12.48	0.68	1.87	3.29	3.44	1.71	Curb	5.8	5	0.011	2	0.05	0.02	9	1.04	0.21	7.37			

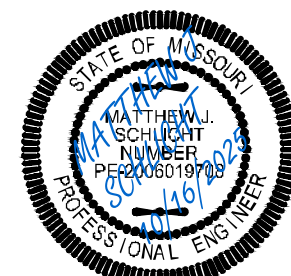


Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

Project: OLDHAM MARKETPLACE, LS MO
Issue Date: November 6, 2024

Storm Sewer Calcs - Pipe 100-Year
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



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

REVISIONS

- REV. 12/10/2024
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- REV. 4/15/2025
- REV. 10/16/2025

100-YEAR 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)	
1-1	1-2	54.4	0.8	12.47	0.68	0.54	8.48	7.1	10.8	10.6	90.23	90.23	358.06	9.08	48	3.68	996.00	998.00	999.03	1000.88	0.00	1023.50	
1-2	1-3	221.1	0.23	11.67	0.68	0.16	7.94	6.3	10.5	10.7	85.15	85.15	234.95	13.14	48	1.58	1000.50	1004.00	1002.17	1006.80	1023.50	1024.80	
1-3	1-4	238.75	0.97	11.44	0.68	0.66	7.78	6.5	10.1	10.8	84.33	84.33	119.71	11.75	42	0.84	1005.00	1007.00	1007.17	1009.86	1024.80	1025.15	
1-4	1-5	252.57	0.2	10.47	0.68	0.14	7.12	6.3	9.7	11	78.14	78.14	116.39	10.46	42	0.79	1007.50	1009.50	1009.86	1012.26	1025.15	1024.50	
1-5	1-6	261.5	7.54	10.27	0.68	5.13	6.98	9.3	9.3	11.1	77.63	77.63	102.3	10.63	42	0.61	1010.00	1011.60	1012.28	1014.35	1024.50	1017.50	
1-6	1-7	119.52	0.76	1.41	0.68	0.52	0.96	6.2	9	11.2	10.78	10.78	25.52	5.41	24	0.75	1013.10	1014.00	1014.35	1015.18	1017.50	1019.25	
1-7	1-8	229.48	0.2	0.65	0.68	0.14	0.44	5.2	8.5	11.4	5.05	5.05	12.7	7.51	15	2.29	1014.75	1020.00	1015.30	1020.91	1019.25	1026.15	
1-8	1-9	157.61	0.45	0.45	0.68	0.31	0.31	8.1	8.1	11.6	3.54	3.54	15.68	7.31	15	3.49	1020.50	1026.00	1020.91	1026.76	1026.15	1031.39	
1-5	2-1	374.86	1.32	1.32	0.68	0.9	0.9	7.3	7.3	11.9	10.66	10.66	42.68	5.37	24	2.11	1013.10	1021.00	1014.35	1022.17	1017.50	1028.50	
3-1	3-2	49.23	24.42	28.1	0.68	16.61	19.11	21.9	30.1	6.9	131.56	131.56	186.41	13.68	42	2.03	996.00	997.00	1000.13	1000.63	0.00	1005.00	
3-2	EX Cl	72.67	3.68	3.68	0.68	2.5	2.5	30	30	6.9	17.27	17.27	57.54	9.83	18	17.77	998.00	1010.91	1004.93	1012.35	1005.00	1015.95	
4-1	4-2	44.43	0.46	43.6	0.68	0.31	25.98	7.1	17.1	9	233.5	233.5	508	11.89	60	2.25	996.00	997.00	1011.81	1012.02	0.00	1024.00	
4-2	4-3	183.92	2.8	43.14	0.68	1.9	25.67	8.7	16.8	9	232.15	232.15	305.8	11.82	60	0.82	1006.00	1007.50	1015.32	1016.19	1024.00	1024.00	
4-3	4-4	305.78	0	40.34	0.68	0	23.76	0	16.4	9.1	217.37	217.37	256.16	11.07	60	0.57	1007.75	1009.50	1017.27	1018.53	1024.00	1025.20	
4-4	4-5	97.35	0.34	29.96	0.68	0.23	16.7	5.7	16.2	9.2	153.44	153.44	315.15	9.65	54	2.57	1010.50	1013.00	1020.34	1020.94	1025.20	1024.65	
4-5	4-6L	168.4	0.21	29.62	0.68	0.14	16.47	6.6	16	9.2	152.19	152.19	143.9	12.11	48	0.59	1013.50	1014.50	1022.63	1023.75	1024.65	1023.56	
4-6L	4-6R	1	0.25	0.25	0.68	0.17	0.17	6.6	6.6	12.2	2.07	2.07	1320.46	0.16	48	50	1014.50	1015.00	1028.70	1028.70	1023.56	1023.56	
4-6L	4-6B	50	1.62	1.62	0.68	1.1	1.1	7.7	7.7	11.7	12.91	12.91	33.44	7.31	18	6	1017.00	1020.00	1028.70	1029.15	1023.56	0.00	
4-6L	4-7	65.42	0.46	27.54	0.68	0.31	15.06	7.5	15.9	9.3	139.47	139.47	163.26	11.1	48	0.76	1015.00	1015.50	1028.70	1029.06	1023.56	1023.72	
4-7	4-8	56.62	0.21	27.08	0.68	0.14	14.75	6.5	15.8	9.3	136.87	136.87	175.49	10.89	48	0.88	1016.00	1016.50	1031.50	1031.80	1023.72	1025.58	
4-8	4-9	293.56	0.1	0.38	0.68	0.07	0.26	5.7	6.8	12.1	3.13	3.13	32.34	1	24	2.04	1019.50	1025.50	1034.72	1034.77	1025.58	1033.03	
4-9	4-10	58.16	0.28	0.28	0.68	0.19	0.19	5.5	5.5	12.7	2.41	2.41	20.97	0.77	24	0.86	1026.00	1026.50	1034.79	1034.79	1033.03	1034.24	
4-4	5-1	33.47	0.21	10.38	0.68	0.14	7.06	6.5	11.9	10.3	72.64	72.64	228.24	5.78	48	1.49	1010.00	1010.50	1020.34	1020.39	1025.20	1025.48	
5-1	5-2	237.82	0.16	9.51	0.68	0.11	6.47	5.8	11.4	10.5	67.64	67.64	94.82	7.03	42	0.53	1011.00	1012.25	1020.95	1021.59	1025.48	1029.28	
5-2	5-3L	196.77	0.2	7.02	0.68	0.14	4.77	7.1	10.9	10.6	50.6	50.6	47.55	7.16	36	0.51	1012.75	1013.75	1023.29	1024.43	1029.28	1028.80	
5-3L	5-3R	1	0.27	0.27	0.68	0.18	0.18	6.5	6.5	12.2	2.24	2.24	613.08	0.32	36	50	1013.75	1014.25	1026.22	1026.22	1028.80	1028.80	
5-3L	5-3B	25	1.2	1.2	0.68	0.82	0.82	7.2	7.2	11.9	9.73	9.73	16.79	7.93	15	4	1016.00	1017.00	1026.22	1026.56	1028.80	0.00	
5-3L	5-4	262.42	0.12	3.08	0.68	0.08	2.09	5.6	10	10.9	22.84	22.84	40.31	4.65	30	0.57	1014.25	1015.75	1026.22	1026.70	1028.80	1033.29	
5-4	5-5	108.31	0.18	2.68	0.68	0.12	1.82	7.4	9.5	11.1	20.14	20.14	44.37	4.1	30	0.69	1016.25	1017.00	1027.21	1027.36	1033.29	1034.91	
5-5	5-6	65.85	0.16	2.5	0.68	0.11	1.7	7.8	9.3	11.1	18.9	18.9	19.71	6.02	24	0.76	1017.50	1018.00	1027.70	1028.16	1034.91	1035.23	
5-6	5-7	45.64	2.34	2.34	0.68	1.59	1.59	9.2	9.2	11.2	17.76	17.76	30.78	5.65	24	1.1	1018.50	1019.00	1028.61	1028.78	1035.23	1035.00	
5-1	6-1	86.62	0.66	0.66	0.68	0.45	0.45	7.1	7.1	12	5.37	5.37	32.8	3.04	18	5.77	1013.00	1018.00	1020.95	1021.08	1025.48	1026.13	
5-2	7-1	282.43	0.18	0.48	0.68	0.12	0.33	6.7	7.1	12	3.9	3.9	19.56	2.21	18	2.05	1014.20	1020.00	1023.29	1023.52	1029.28	1029.10	
7-1	7-2	51.16	0.3	0.3	0.68	0.2	0.2	6.7	6.7	12.1	2.47	2.47	6.38	2.02	15	0.98	1020.50	1021.00	1023.64	1023.71	1029.10	1029.20	
5-2	8-1	118.16	0.21	1.85	0.68	0.14	1.26	6.6	7.7	11.7	14.73	14.73	82.27	5.52	24	7.83	1013.75	1023.00	1023.29	1024.38	1029.28	1030.58	
8-1	8-2	49.1	0.76	1.64	0.68	0.52	1.12	6.5	7.6	11.7	13.1	13.1	27.95	7.4	24	1.53	1023.50	1024.25	1024.46	1025.55	1030.58	1030.58	
8-2	8-3	306.93	0	0.88	0.68	0	0.6	0	6.8	12.1	7.22	7.22	16.98	6.52	18	1.55	1024.75	1029.50	1025.55	1030.54	1030.58	1036.46	
8-3	8-4	76.99	0.88	0.88	0.68	0.6	0.6	6.7	6.7	12.1	7.26	7.26	51.6	9.11	18	14.29	1030.00	1041.00	1030.54	1042.04	1036.46	0.00	
5-3	9-1L	64.92	1.31	2.27	0.68	0.89	1.54	6.6	6.8	12.1	18.65	18.65	15.03	15.2	15	6.16	1016.00	1020.00	1026.22	1031.64	1028.80	1028.80	
9-1L	9-1R	1	0.96	0.96	0.68	0.65	0.65	6.8	6.8	12.1	7.89	7.89	45.66	6.43	15	50	1020.00	1020.50	1033.43	1033.45	1028.80	1028.80	
5-4	10-1	67.91	0.28	0.28	0.68	0.19	0.19	5.6	5.6	12.6	2.4	2.4	21.46	1.96	15	11.04	1017.50	1025.00	1027.21	1027.30	1033.29	1033.04	
4-8	12-1	43.15	2.72	26.49	0.68	1.85	14.34	7.7	15.7	9.3	133.37	133.37	119.77	10.61	48	0.7	1017.00	1017.30	1034.72	1035.09	1025.58	1025.61	
12-1	12-2	51.21	1.59	23.77	0.68	1.08	12.5	7.4	15.6	9.3	116.44	116.44	184.52	9.27	48	0.98	1017.80	1018.30	1036.91	1037.11	1025.61	1024.84	
12-2	12-3	362.01	0.41	22.18	0.68	0.28	11.41	8.7	14.9	9.5	108.29	108.29	223.81	8.62	48	1.44	1018.80	1024.00	1038.74	1039.96	1024.84	1035.35	
12-3	12-4	39.58	0.19	21.77	0.68	0.13	11.14	6.5	14.9	9.5	105.8	105.8	147	11	42	1.26	1024.50	1025.00	1041.63	1041.89	1035.35	1036.50	
12-4	12-5	51.54	21.58	21.58	0.51	11.01	11.01	14.8	14.8	9.5	104.73	104.73	85.4	14.82	36	0.97	1025.50	1026.00	1043.37	1044.13	1036.50	0.00	
11-1	11-2	53.05	0	17.17	0.68	0	10.71	0	15.7	9.3	99.49	99.49	464.9	5.07	60	1.89	996.00	997.00	1011.41	1011.46	0.00	1011.00	
11-2	11-3	176.56	0.43	17.17	0.68	0.29	10.71	7.3	15.3	9.4	100.69	100.69	825.75	6.22	60	5.95	997.50	1008.00	1011.52	1011.30	1011.00	1022.25	
11-3	11-4	99	0.13	16.74	0.68	0.09	10.42	5.6	15.1	9.4	98.34	98.34	145.37	10.26	48	0.61	1009.00	1009.60	1011.72	1012.60	1022.25	1023.75	
11-4	11-5	107.78	0.12	16.61	0.68	0.08	10.33	5.8	14.9	9.5	97.95	97.95	145.02	10.16	48	0.6	1009.85						

10/30/2025

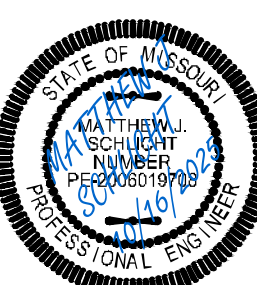
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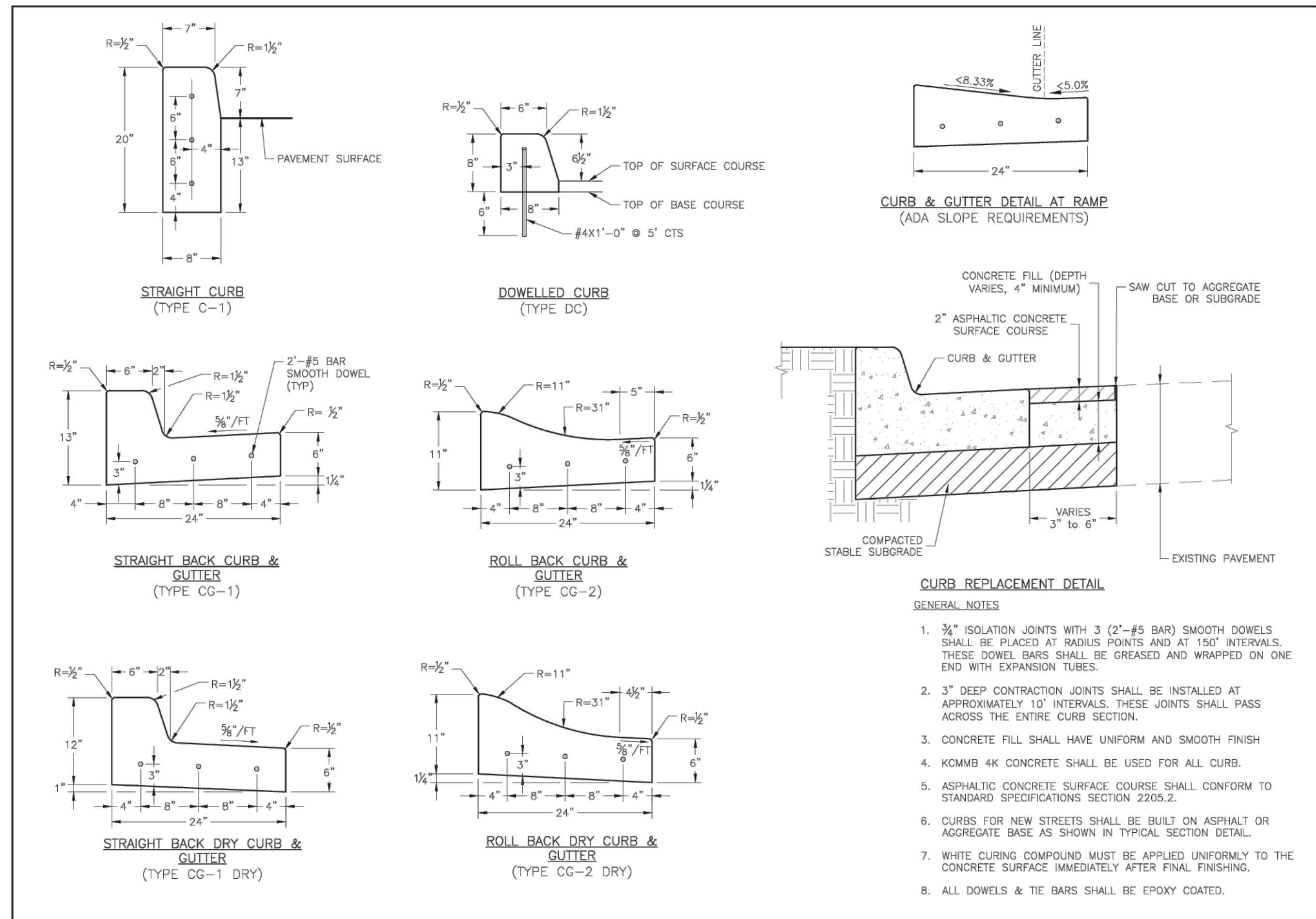
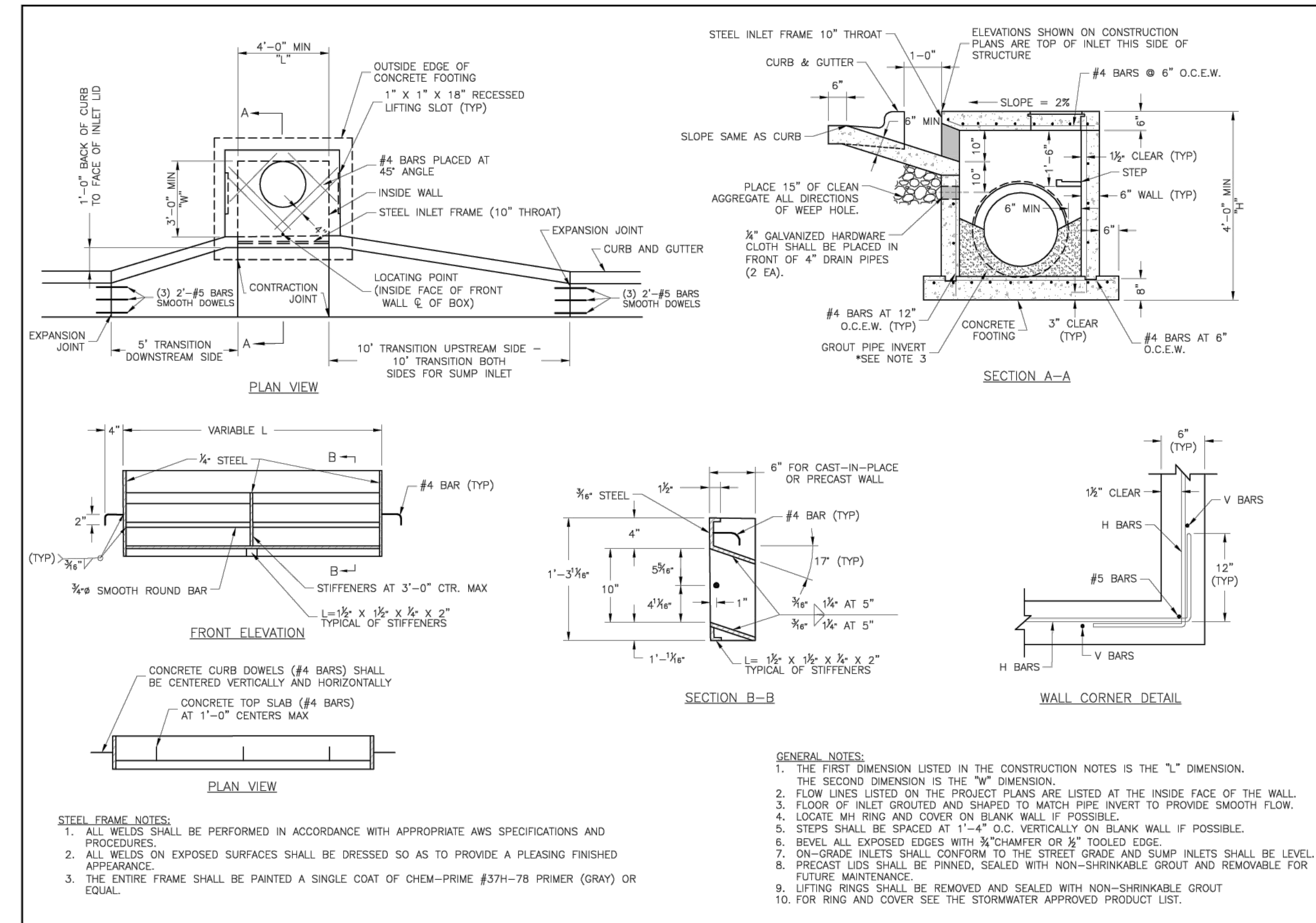
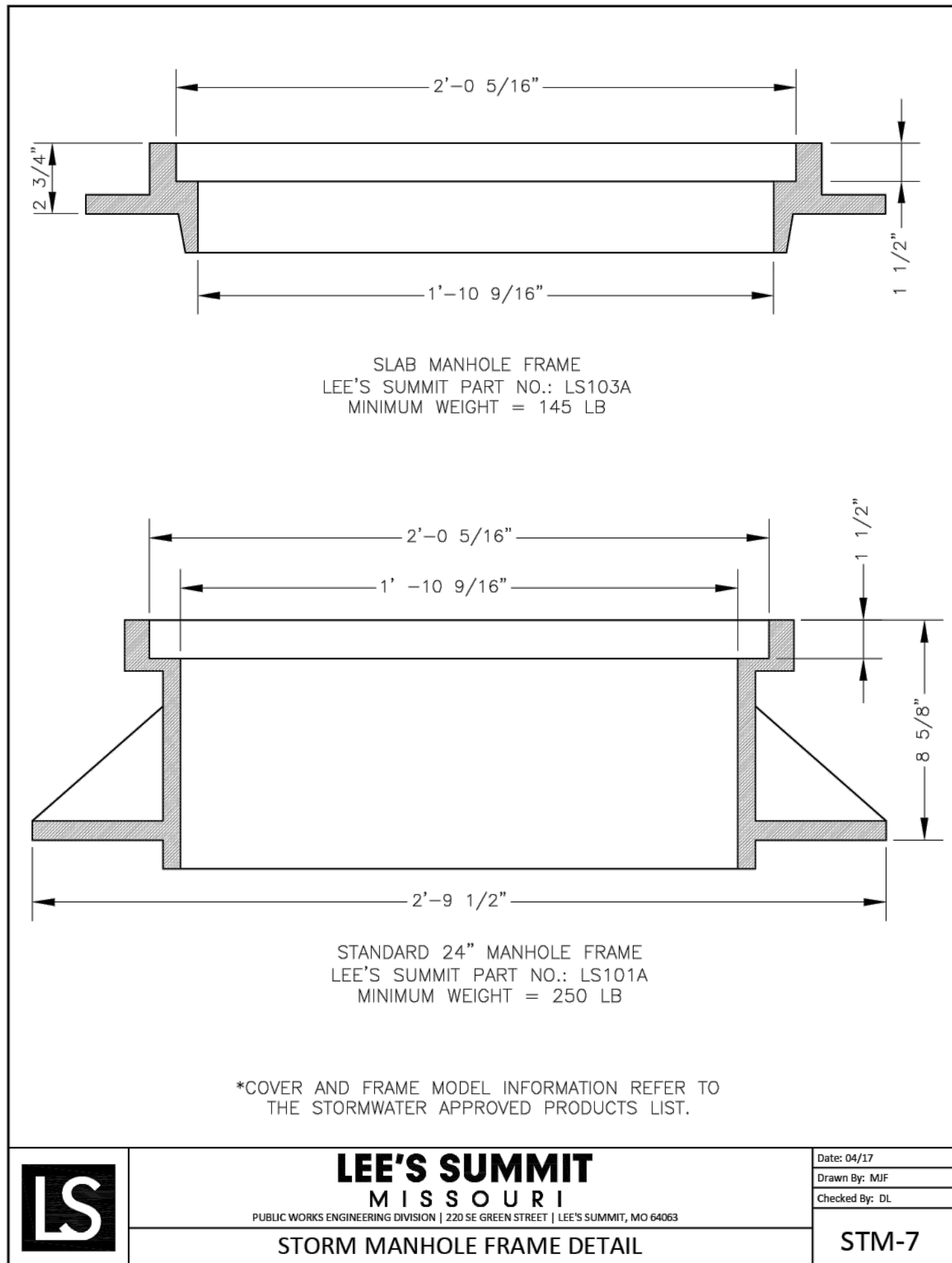
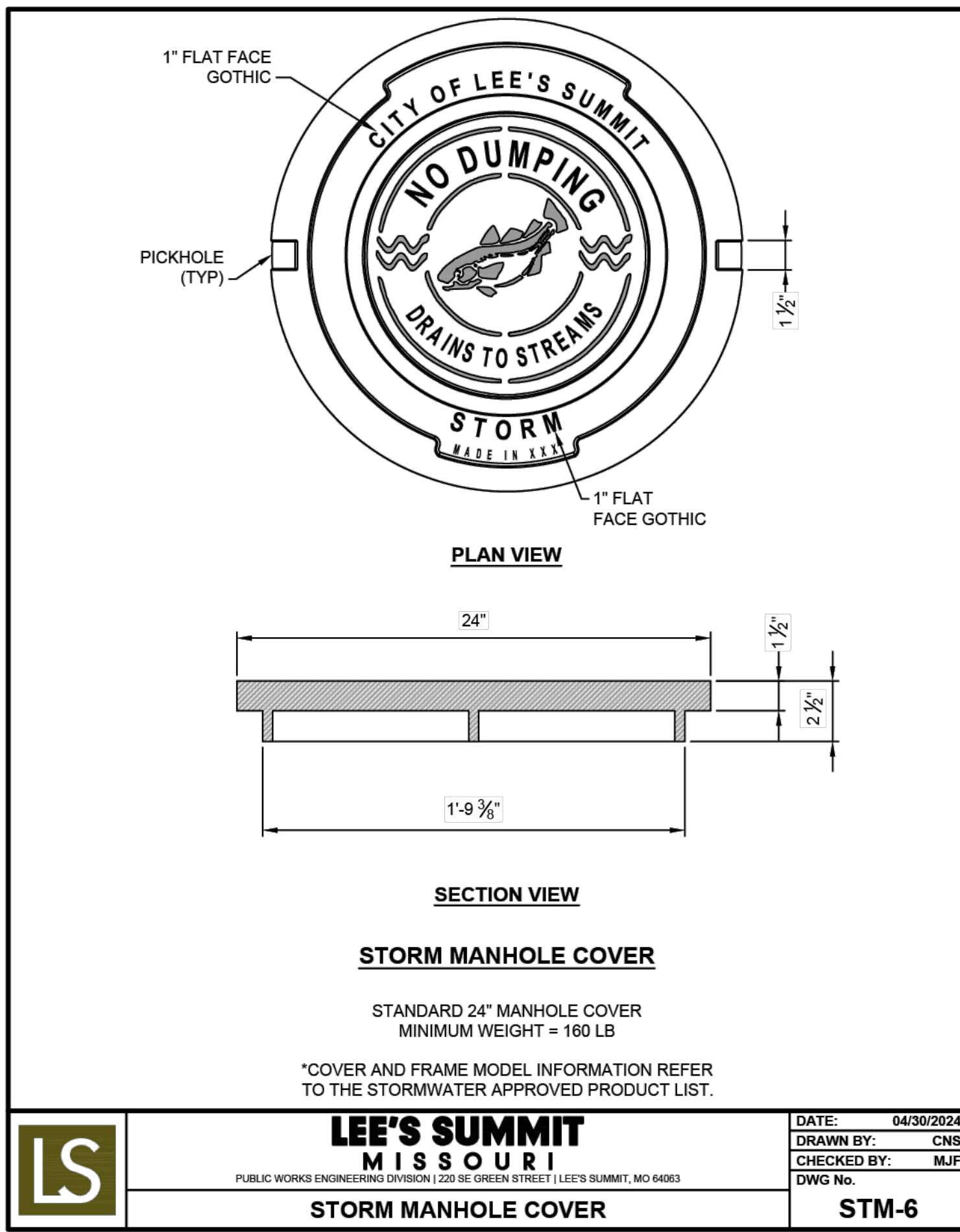
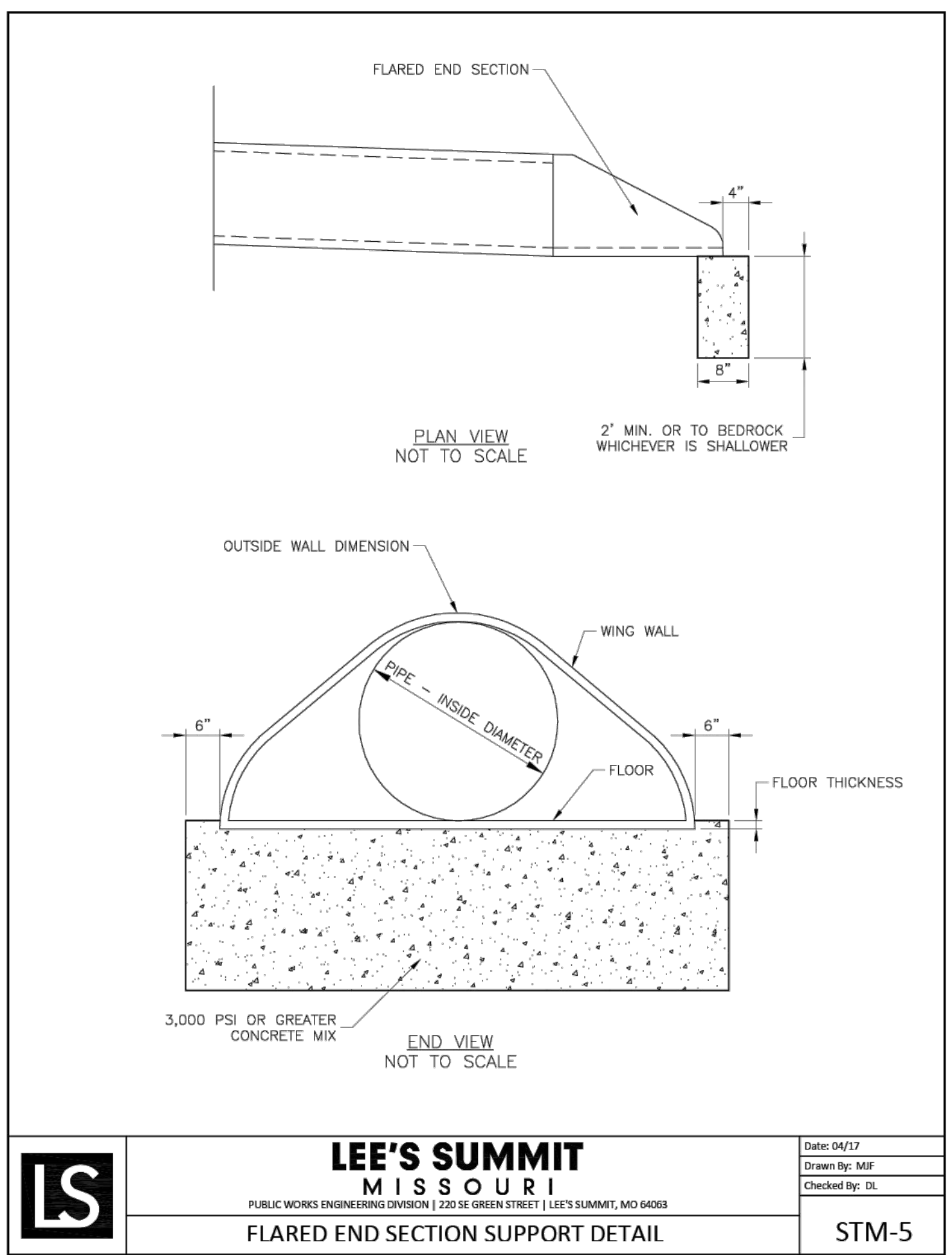
Project: OLDHAM MARKETPLACE, LS MO
Issue Date: November 5, 2024

Construction Details
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri

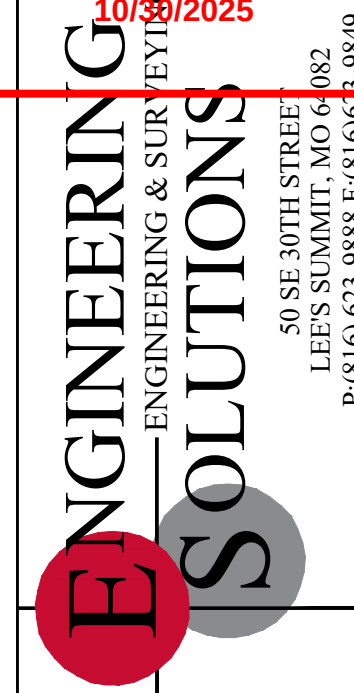


Matthew J. Schlacht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS
REV. 12/10/2024
REV. 1/2/2025
REV. 2/6/2025
REV. 3/5/2025
REV. 3/24/2025
REV. 4/15/2025
REV. 10/16/2025



10/30/2025

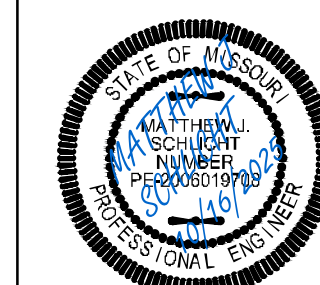


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Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

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