

OLDHAM VILLAGE
CONSTRUCTION PLANS
Section 7, Township 47 North, Range 31 West
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

DEVELOPER:
Oldham Investors, LLC
David Olson
1700 132nd St, Suite 150
Phone: 314-413-3598

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- C.309 ~ STORM SEWER PLAN AND PROFILE
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- C.312 ~ STORM SEWER TABLES
- C.313 ~ STORM SEWER TABLES
- C.600 ~ CONSTRUCTION DETAILS
- C.601 ~ CONSTRUCTION DETAILS
- STREET LIGHT PLANS
- SIGNAL PLANS

LEGEND:

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

ENGINEER'S CERTIFICATION:

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

Tract Description[illegible]

GENERAL NOTES:

- 1 - ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
- 2 - ALL REQUIRED EASEMENTS WITHIN THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR ON THE FINAL PLAN.
- 3 - ANY REQUIRED EASEMENT LOCATED OUTSIDE OF THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR BY SEPARATE INSTRUMENT PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS.
- 4 - THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING SECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH AN INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 869-1200.
- 5 - THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH THE IMPROVEMENTS PROPOSED BY THESE PLANS AND SITE CONDITIONS.
- 6 - THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND OBTAIN THE APPROPRIATE BLASTING PERMITS FOR A REQUIRED BLASTING. IF BLASTING IS ALLOWED, ALL BLASTING SHALL CONFORM TO STATE REGULATIONS AND LOCAL ORDINANCES.

UTILITY COMPANIES:

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

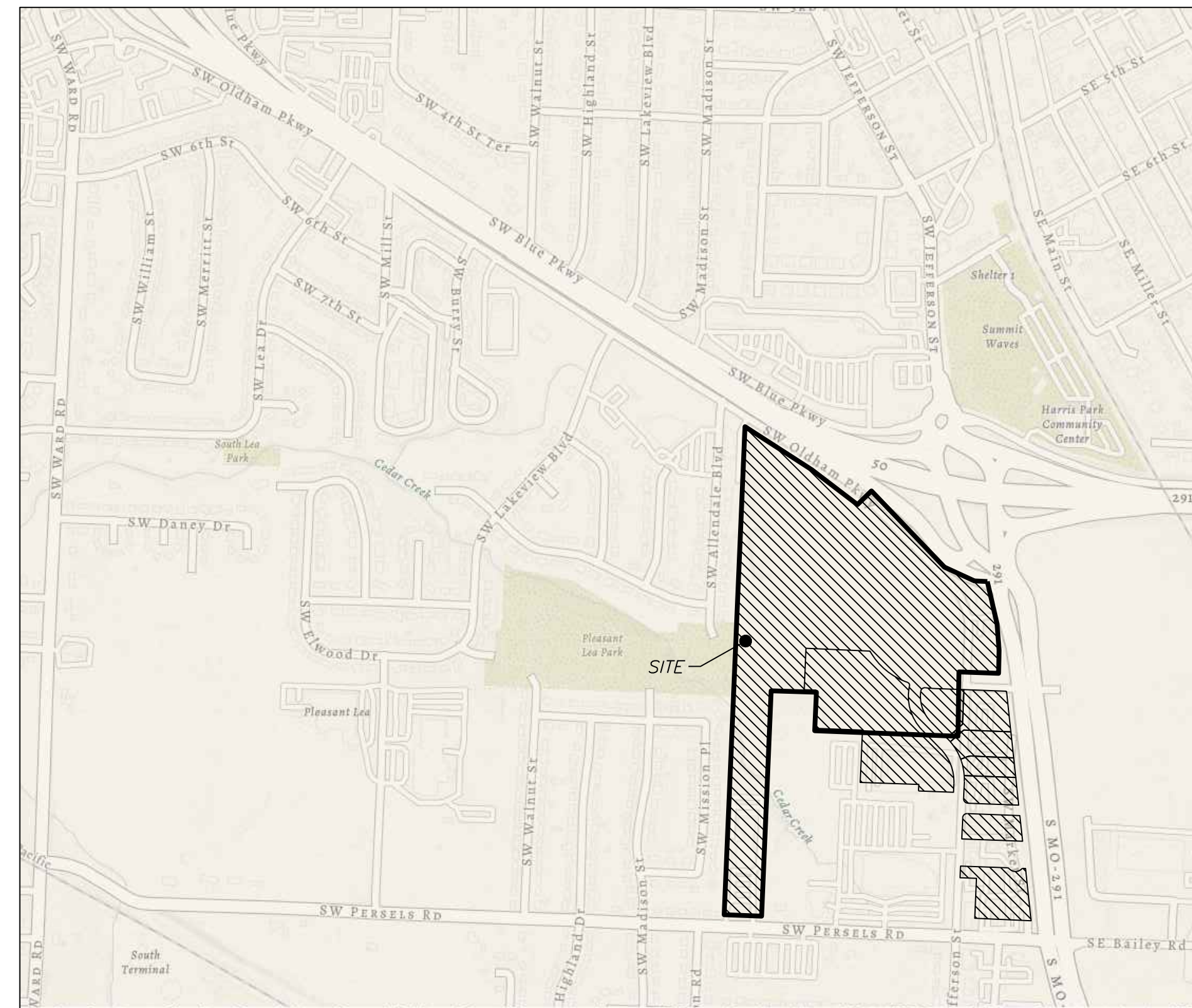
EVERGY ~ 298-1196
MISSOURI GAS ENERGY ~ 756-5261
SOUTHWESTERN BELL TELEPHONE ~ 761-5011
COMCAST CABLE ~ 795-1100
WILLIAMS PIPELINE ~ 422-6300
CITY OF LEE'S SUMMIT PUBLIC WORKS ~ 969-1800
CITY OF LEE'S SUMMIT DEVELOPMENT ENGINEERING INSPECTION AT 816.969.1200
CITY OF LEE'S SUMMIT WATER UTILITIES ~ 969-1900
MISSOURI ONE CALL (DIG RITE) ~ 1-800-344-7483

OIL - GAS WELLS

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

FLOOD INFORMATION:

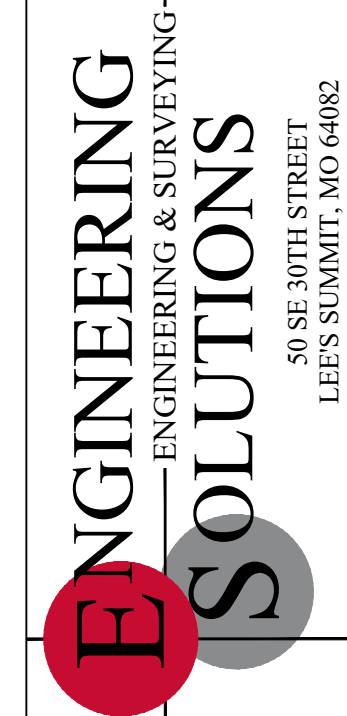
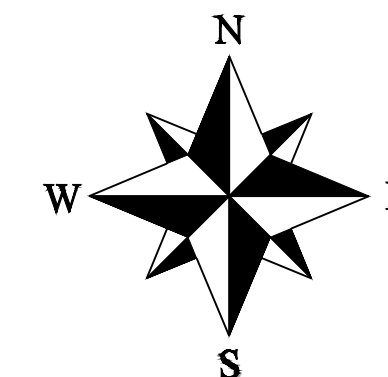
The property is located in Zone "X" areas outside the 100 year flood plain per FEMA Map 29095C0419G, dated January 20, 2017



SITE LOCATION MAP

Summary of Quantities:

ITEM AND DESCRIPTION	UNIT	ESTIMATED QUANTITY
ASPHALT PAVING	S.Y.	16,680.00
CURBING	FT	8,453.00
5' SIDEWALK	S.F.	52,075.00
MoDOT Type 5 Base	S.Y.	20,220.00
GEOGRID	S.Y.	20,220.00
ADA SIDEWALK RAMP	UNIT	18
STORM	FT	
72" HDPE	FT	534.13
60" HDPE	FT	520.05
48" HDPE	FT	559.66
42" HDPE	FT	751.64
36" HDPE	FT	1,063.63
30" HDPE	FT	297.35
24" HDPE	FT	1,176.14
18" HDPE	FT	481.97
15" HDPE	FT	202.03
60" RCP	FT	97.35
48" RCP	FT	222.92
42" RCP	FT	196.77
36" RCP	FT	107.85
30" RCP	FT	98.40
24" RCP	FT	235.41
15" RCP	FT	43.45



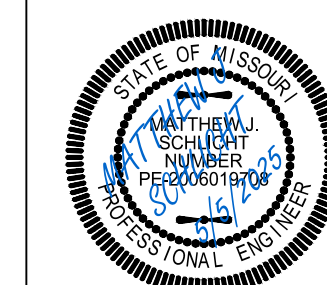
Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

Project:
OLDHAM
MARKETPLACE,
LSMO

Issue Date:

Street & Storm Cover Sheet
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri

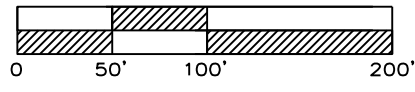
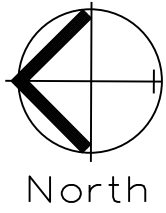


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KS PE 19071
OK PE 25226
NE PE E-14335

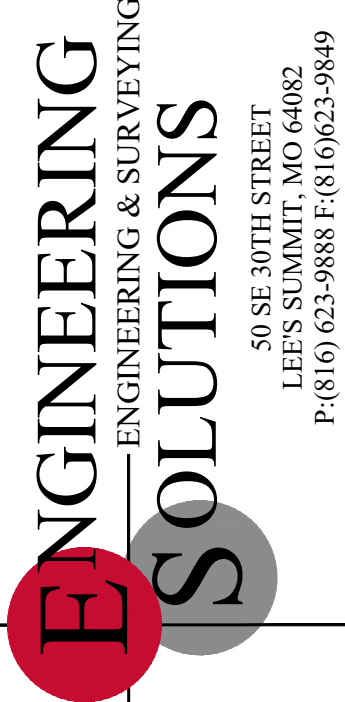
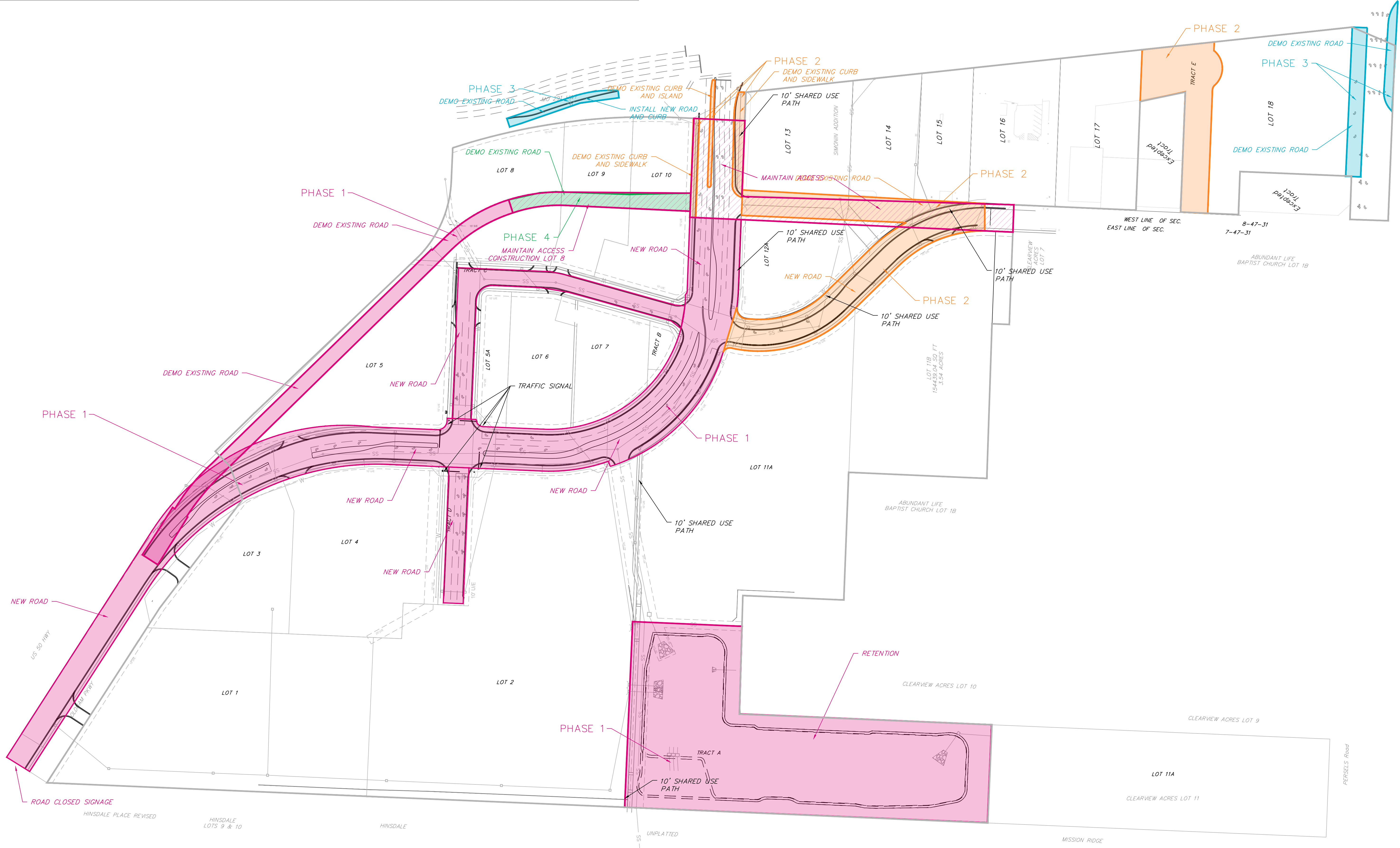
REVISIONS

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

	CONSTRUCTION ACTIVITY	2025 WORK SCHEDULE												2026 WORK SCHEDULE		
		MAR	APRIL	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR		
1	Demo Existing Buildings															
2	PHASE 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'

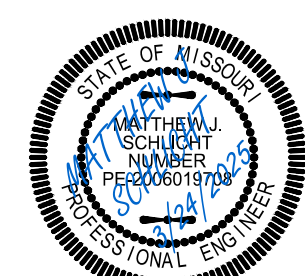


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Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

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

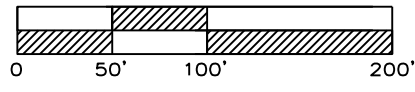
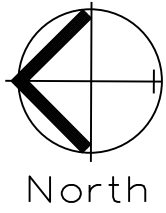
CONSTRUCTION PHASING
OVERALL SITE PLAN
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



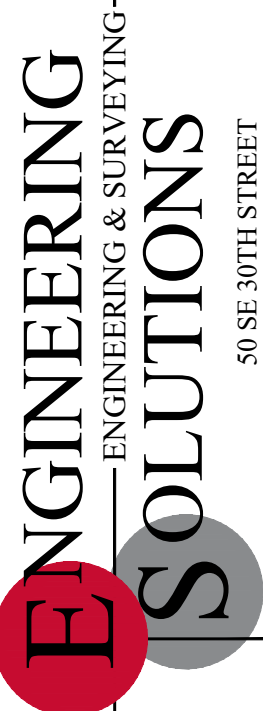
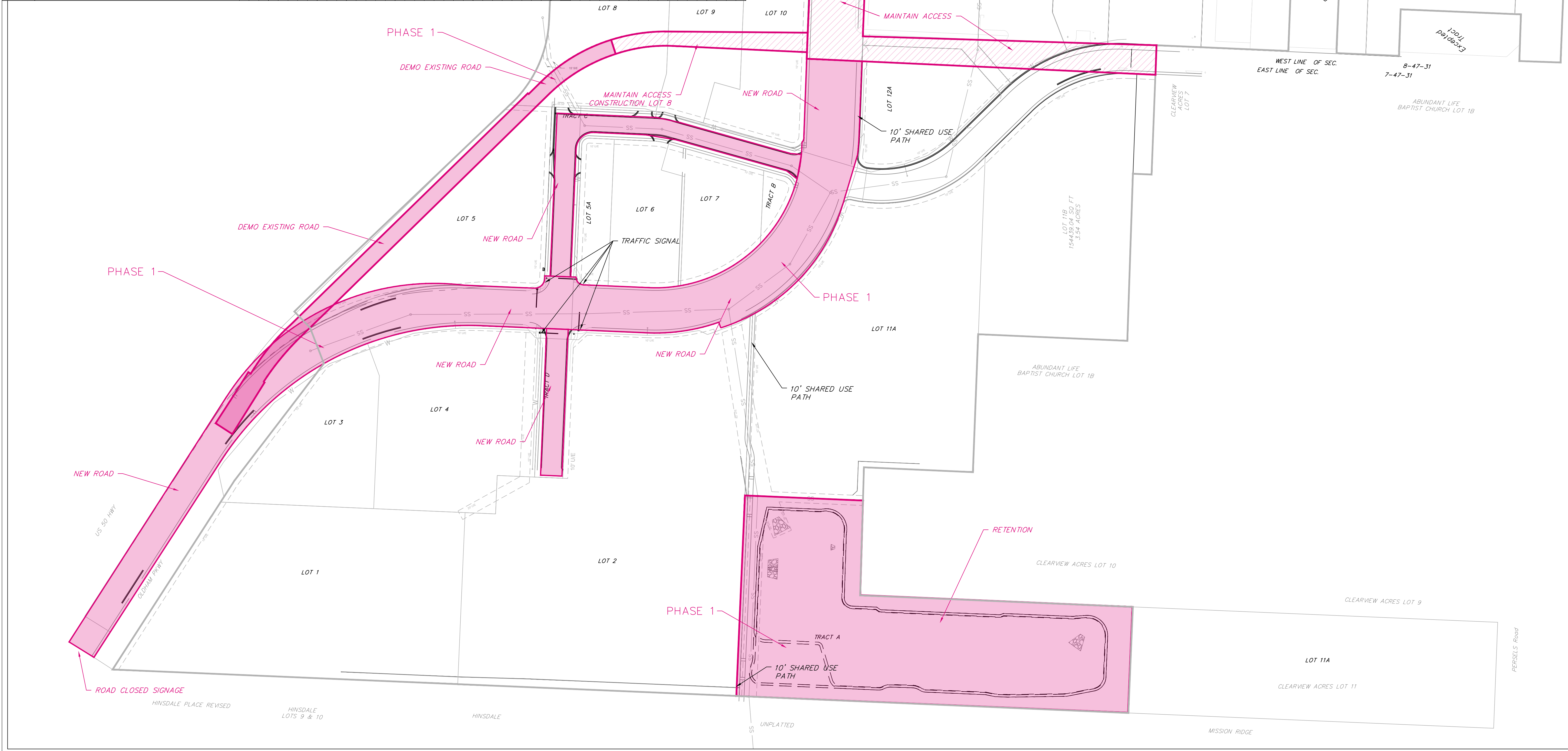
Matthew J. Schlicht
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KS PE 19071
OK PE 25226
NE PE E-14335

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REV. 2/6/2025	
REV. 3/5/2025	
REV. 3/24/2025	

CONSTRUCTION ACTIVITY		2025 WORK SCHEDULE												2026 WORK SCHEDULE		
		MAR	APRIL	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR		
68	Clearing and Removals															
69	Mass Grading															
70	Retaining Walls															
71	Sanitary Sewer															
72	Storm Sewer															
73	Public															
74	Private															
75	Waterline															
76	Everygy Conduit															
77	Order Signal Poles															
78	Cleanup and Prep for Agg base															
79	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'

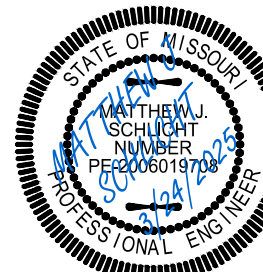


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Oldham Village
Lee's Summit, Jackson County, Missouri

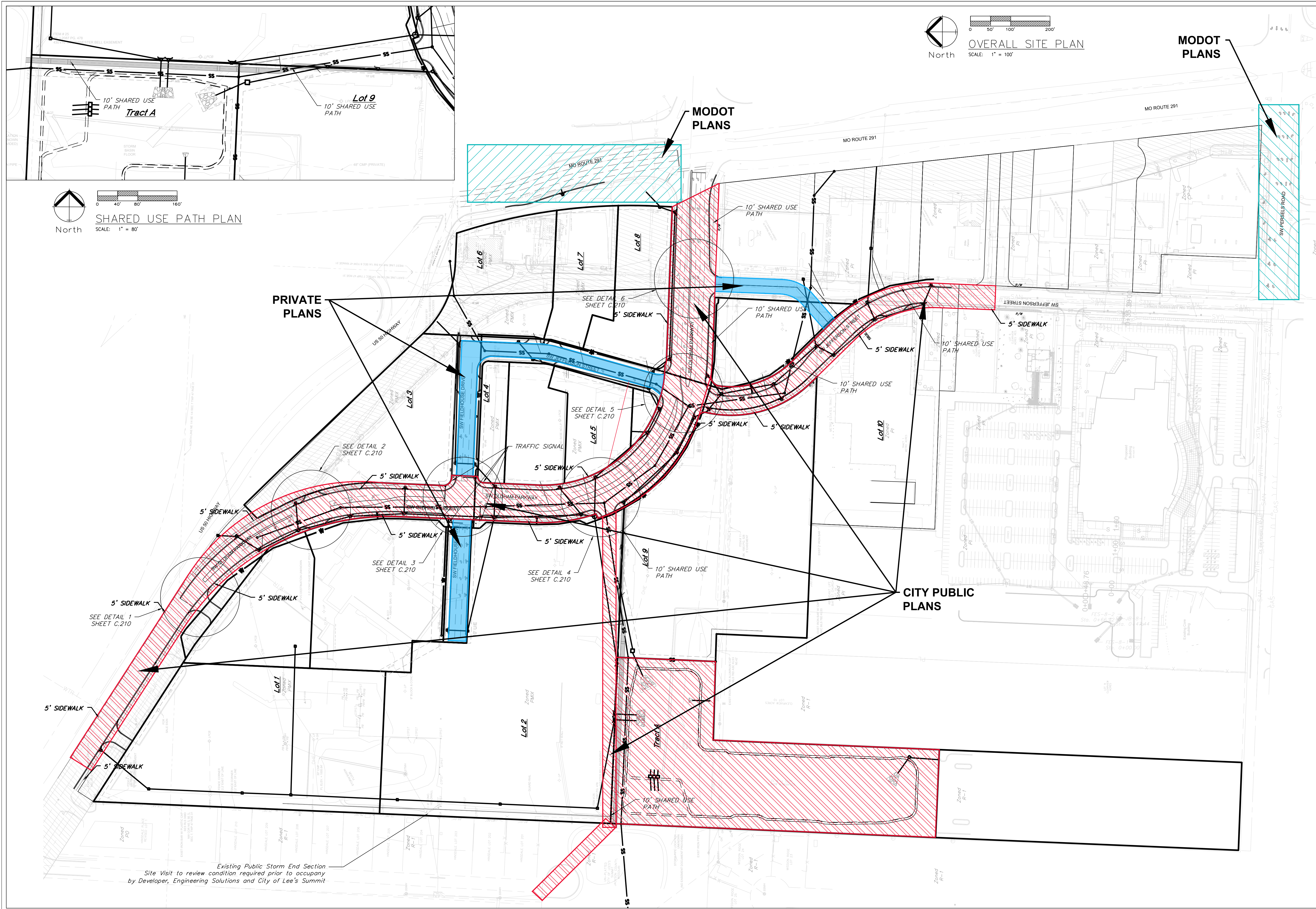
Project: Oldham Village
Marketplace
LSMO
Issue Date: November 6, 2024

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



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△	REV. 12/10/2024
△	REV. 1/2/2025
△	REV. 2/6/2025
△	REV. 3/5/2025
△	REV. 3/24/2025



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 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering S254
Nebraska
Engineering CA2821

Project
Oldham Village
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

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

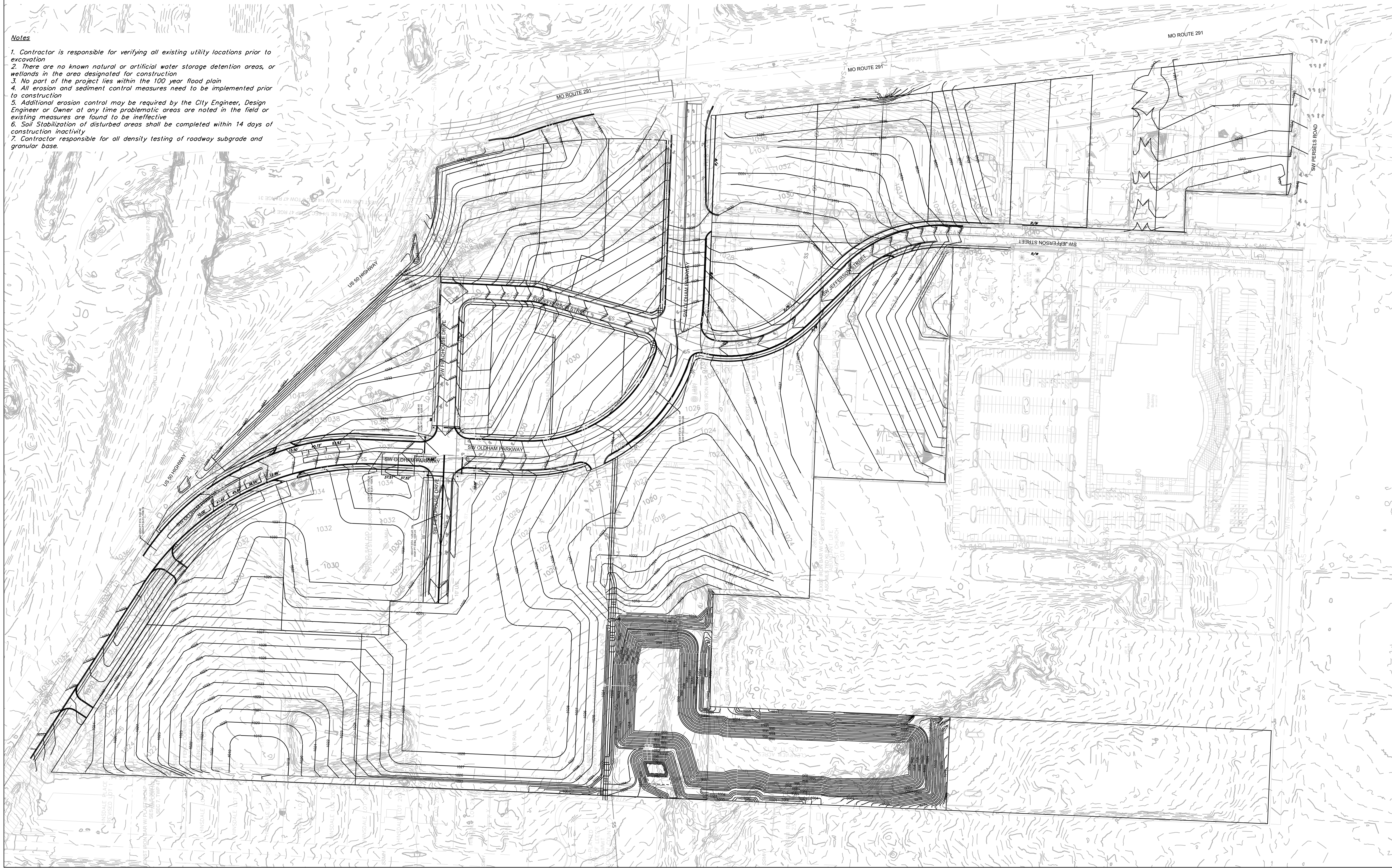
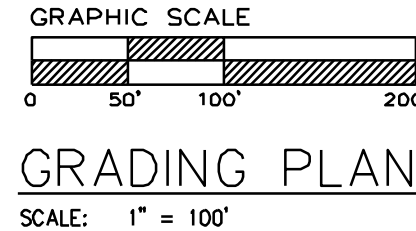
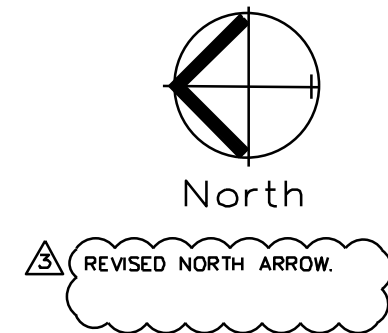
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REV. 3/24/2025

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.



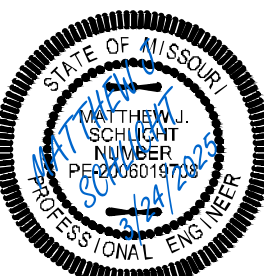
Master Drainage Plan 1 of 3:

Grading Plan
Construction Plans for:

Oldham Village
Lee's Summit, Jackson County, Missouri

Project:
MARKETPLACE
LSMO

Issue Date:
November 6, 2024



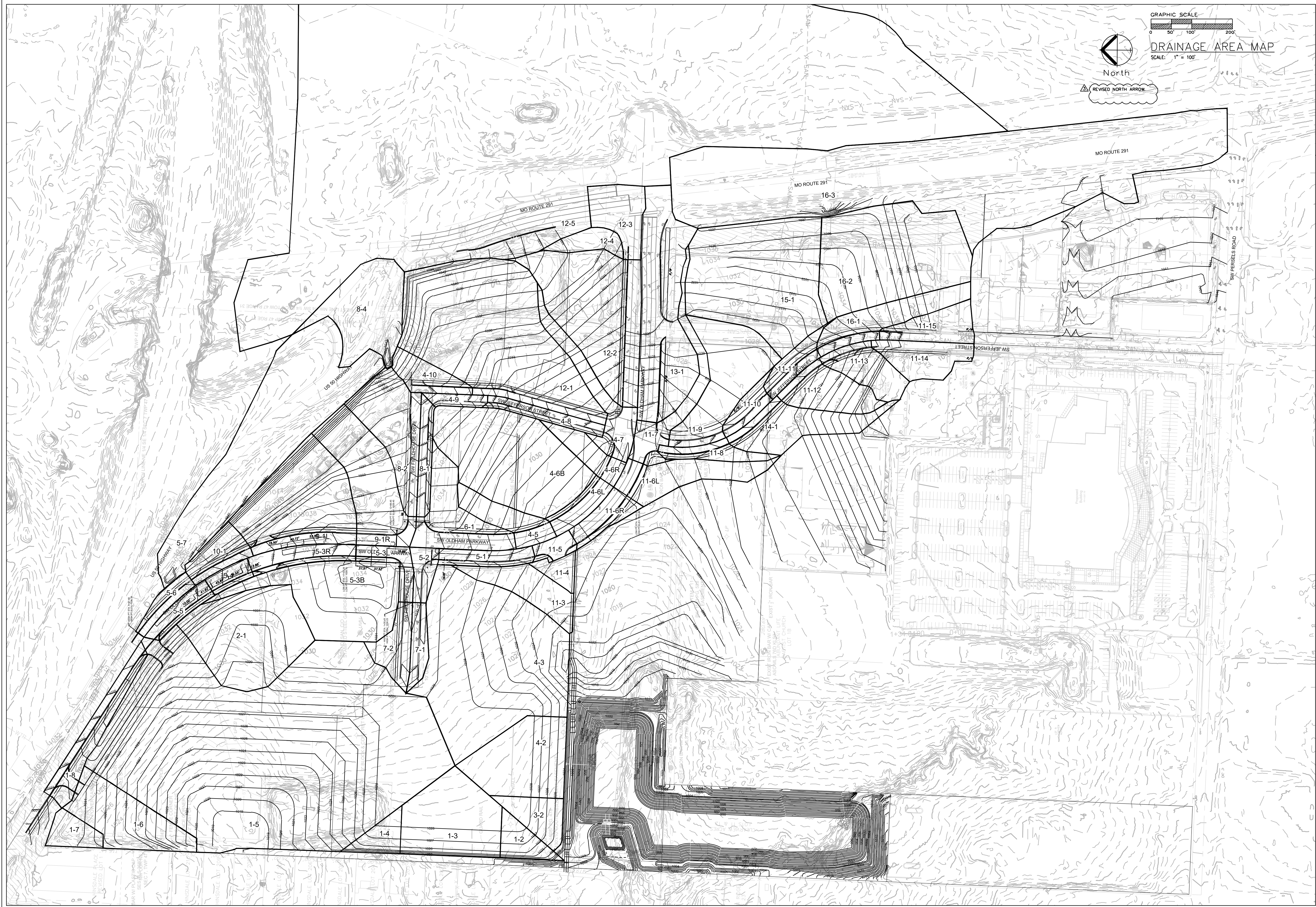
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 - REV. 1/2/2025
 - REV. 2/6/2025
 - REV. 3/5/2025
 - REV. 3/24/2025



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Engineering 200502186-D
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Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri



Master Drainage Map 3 of 3:
Drainage Area Map
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri

Project:
MARKETPLACE
LSMO
Issue Date:
November 6, 2024

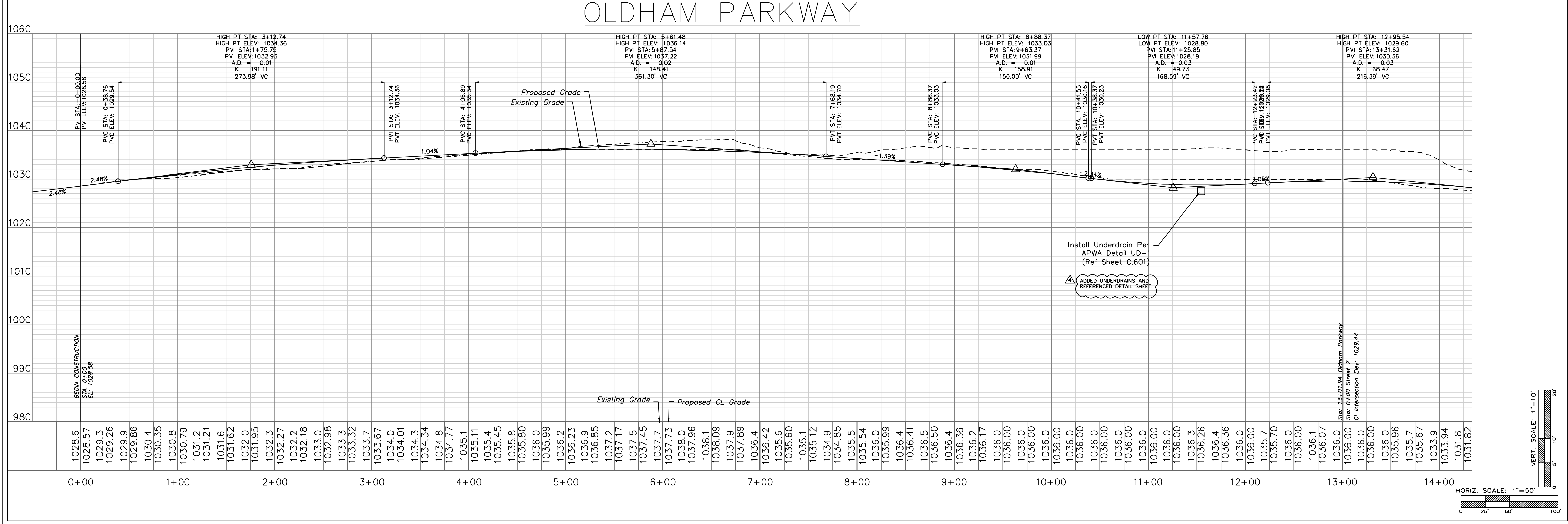
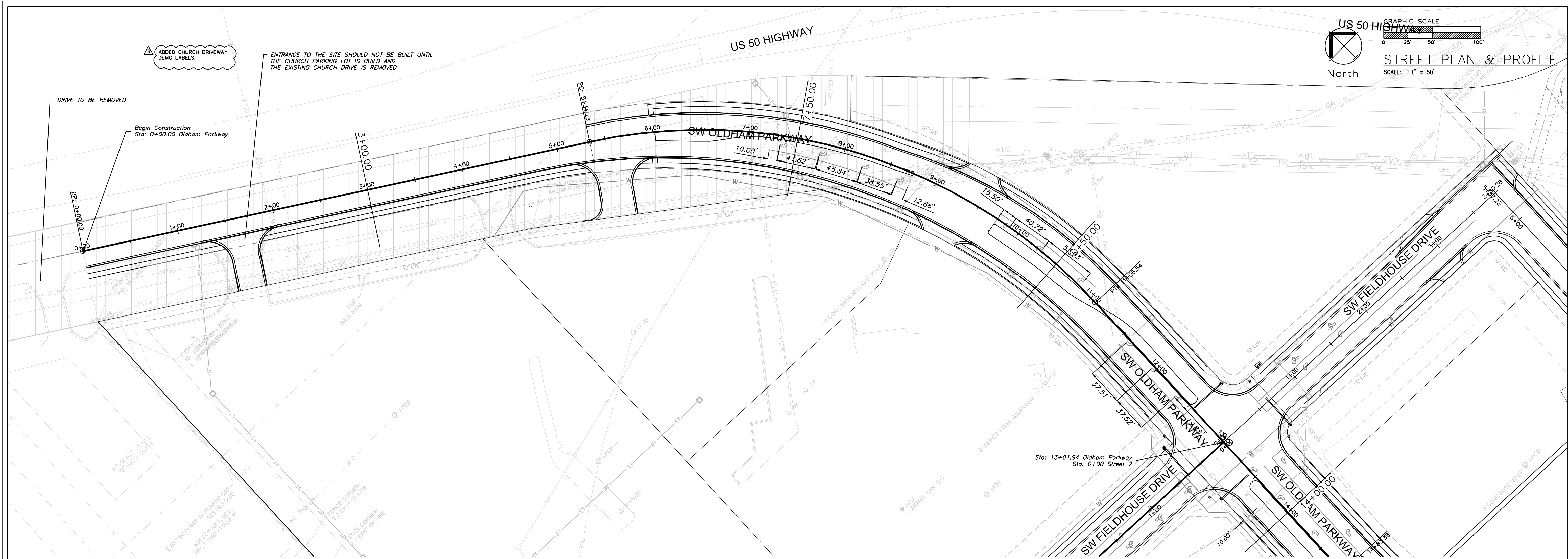
Oldham Village
Lee's Summit, Jackson County, Missouri

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Oldham Village
Lee's Summit, Jackson County, Missouri

Project:
MARKRETHPLACE
LSMO

Issue Date:
November 6, 2024

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

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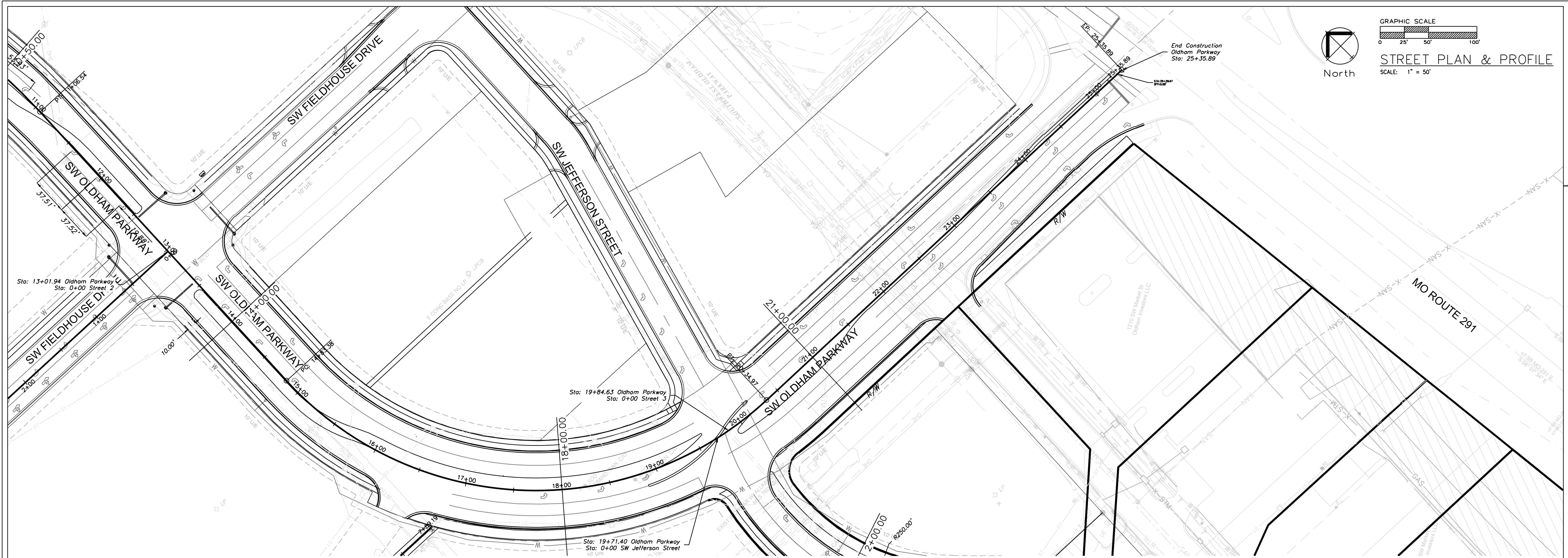
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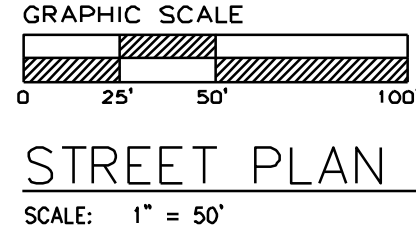
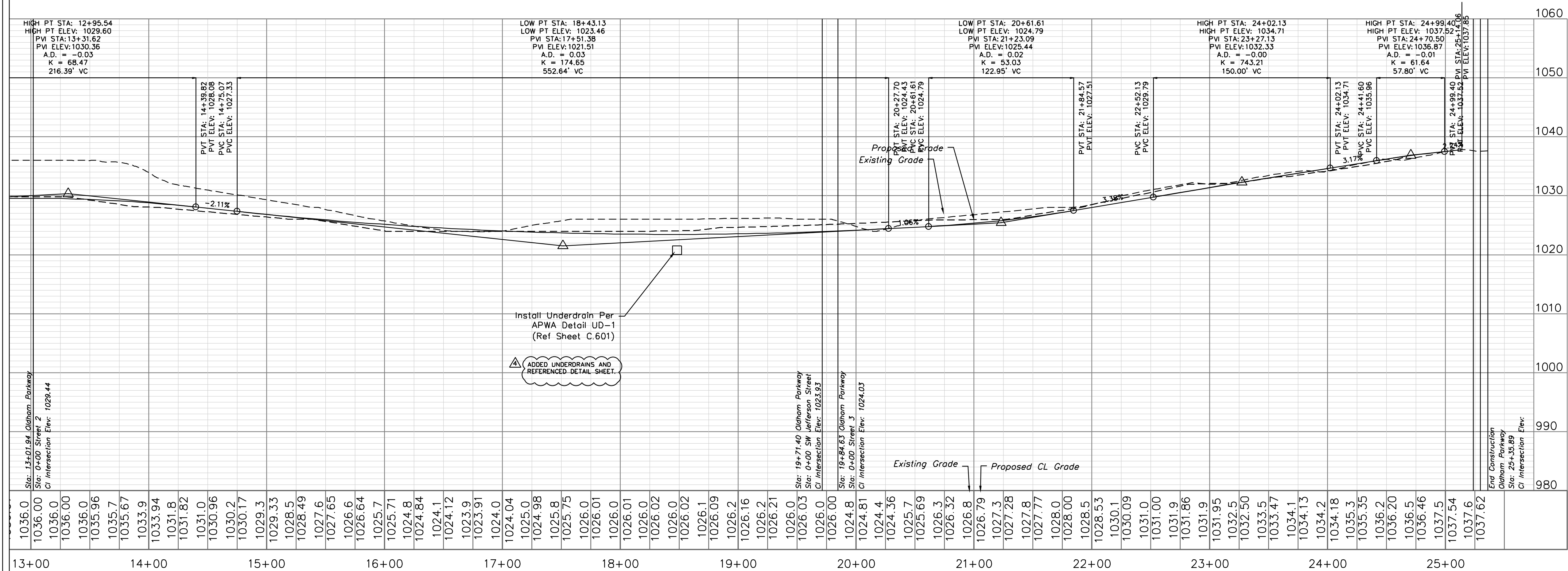
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REV. 3/24/2025

C. 202



OLDHAM PARKWAY



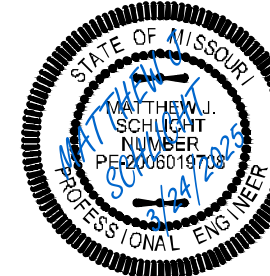
STREET PLAN & PROFILE
SCALE: 1" = 50'



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

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

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



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REVISIONS
REV. 12/10/2024
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REV. 3/24/2025



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Oklahoma
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Nebraska
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Project: MARKETPLACE, LSMO

Issue Date: November 6, 2024

Street Plan and Profile

Construction Plans for:
Oldham Village

Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
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REVISIONS

REV. 12/10/2024

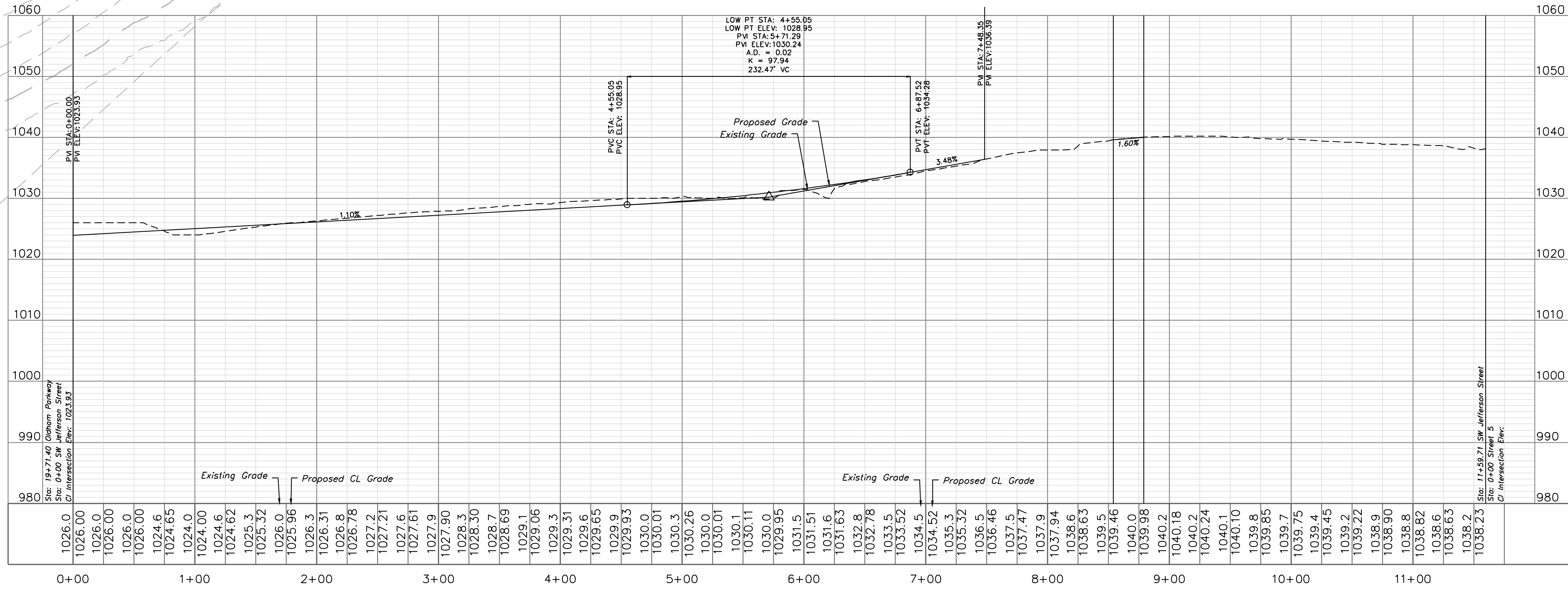
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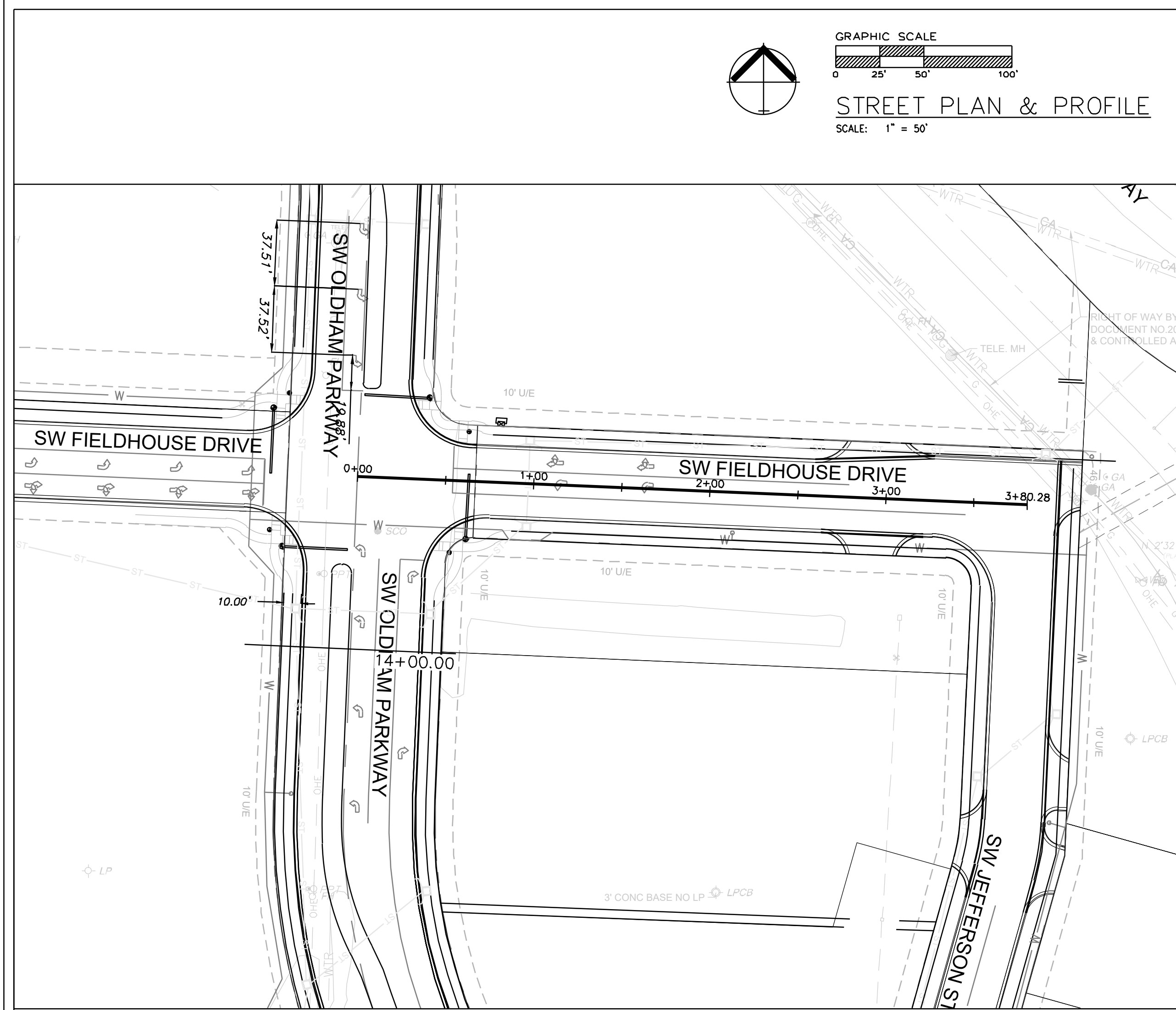
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REV. 3/5/2025

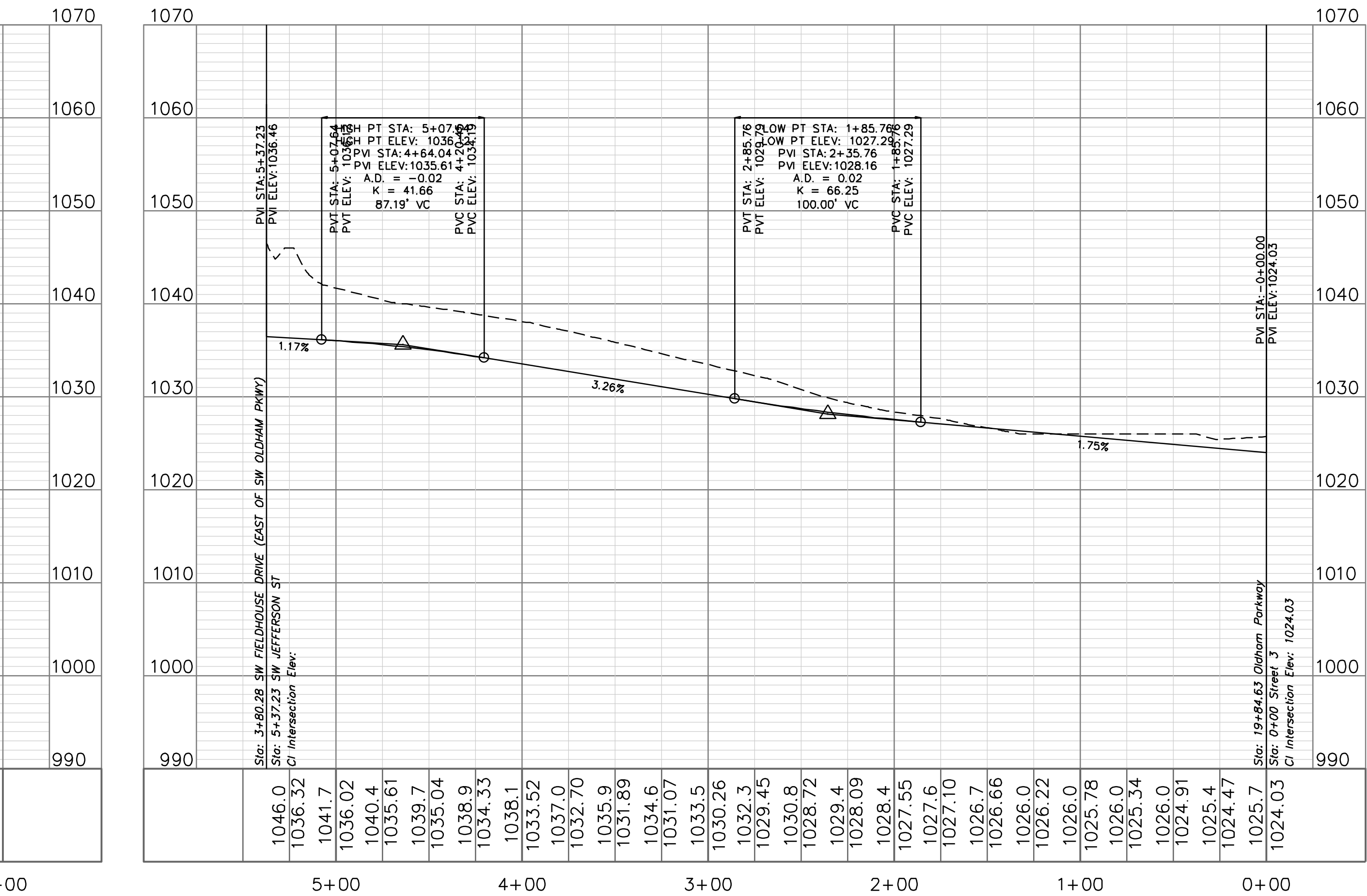
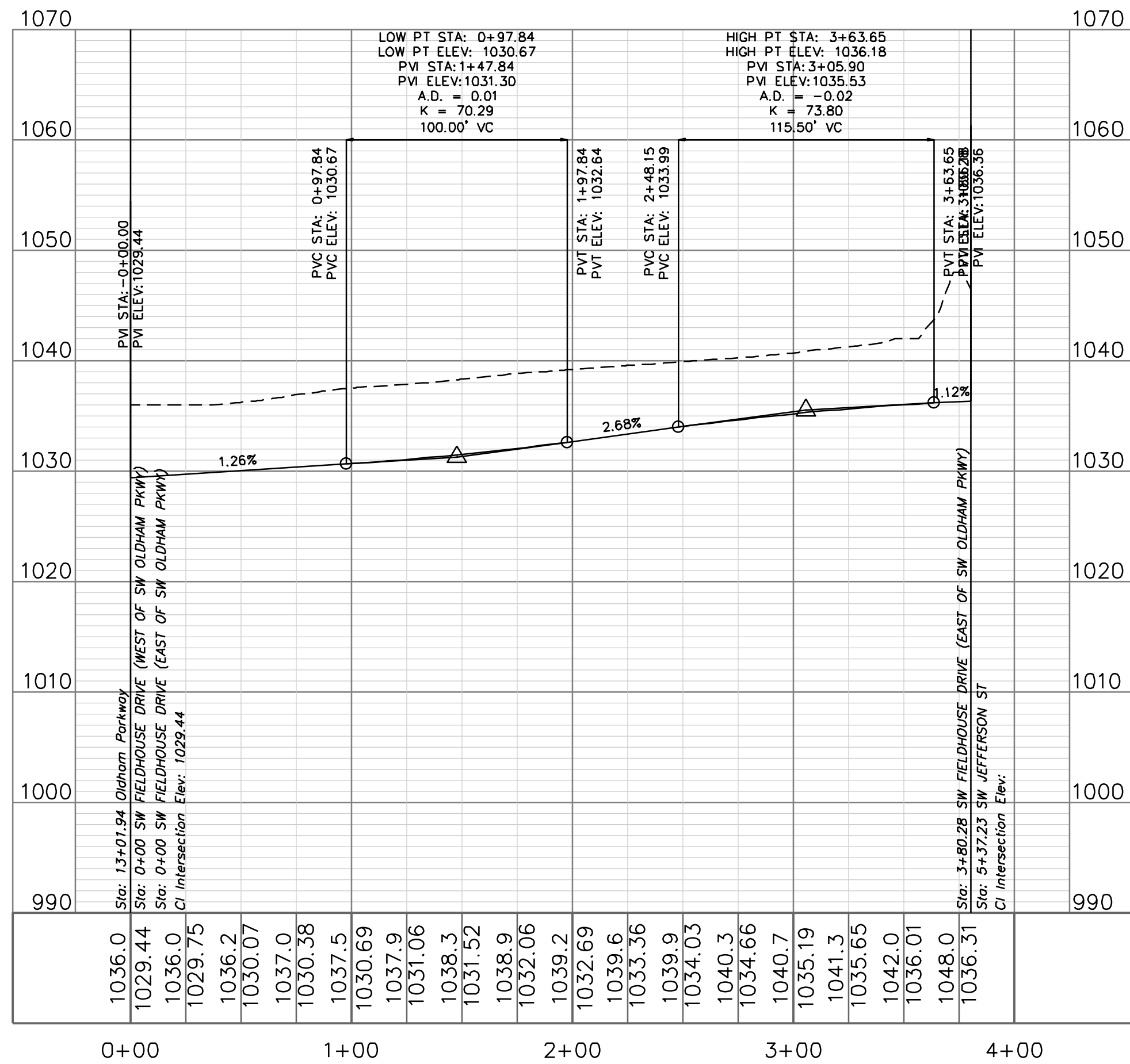
REV. 3/24/2025

C.204





SW FIELDHOUSE DR



SW JEFFERSON ST

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50 SE 30TH STREET
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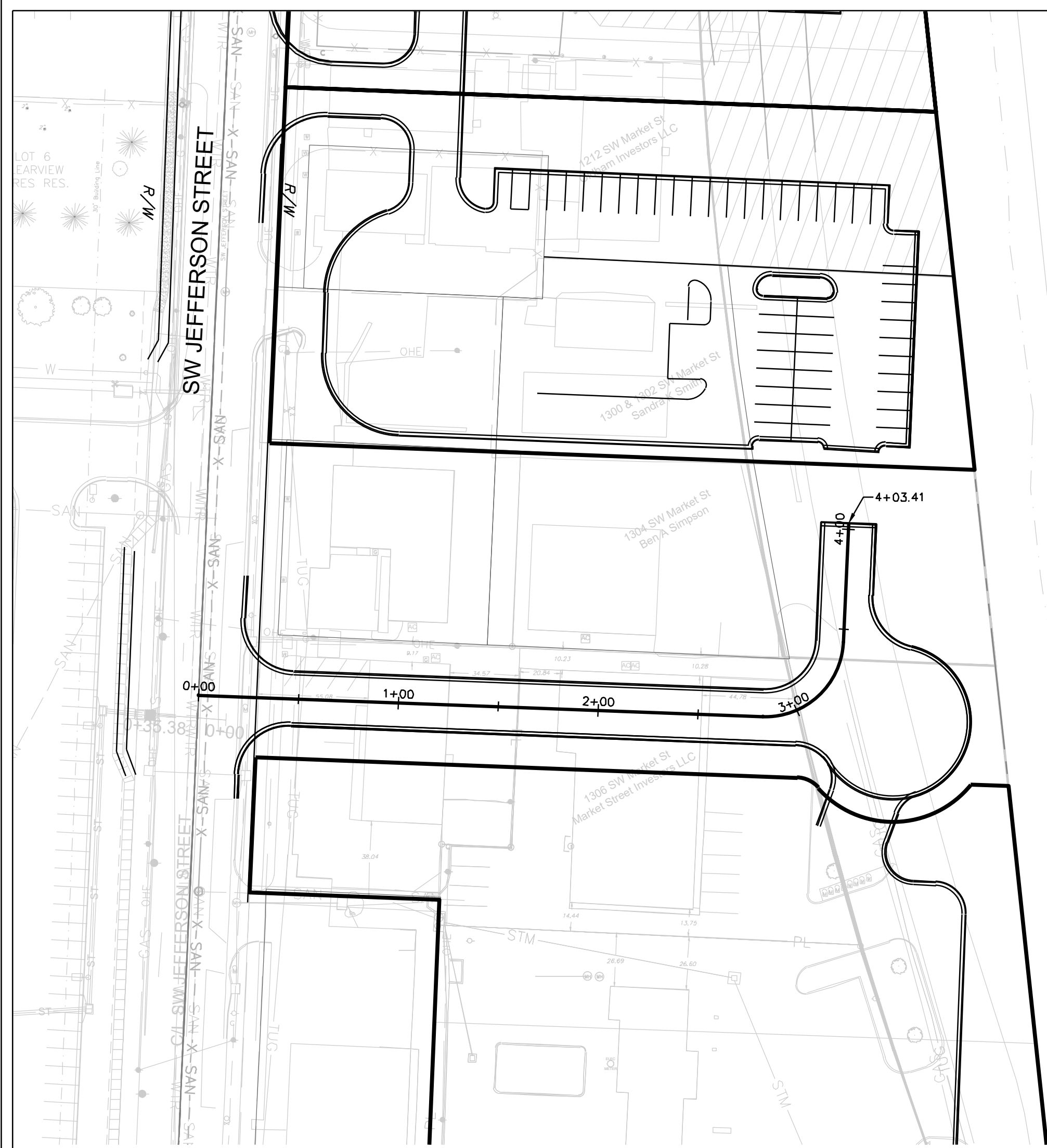
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OK PE 25226
NE PE E-14335

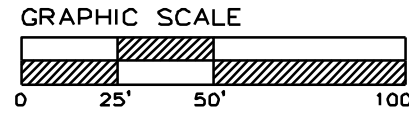
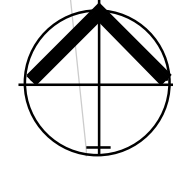
REVISIONS
REV. 12/10/2024
REV. 1/2/2025
REV. 2/6/2025
REV. 3/5/2025
REV. 3/24/2025

C. 205

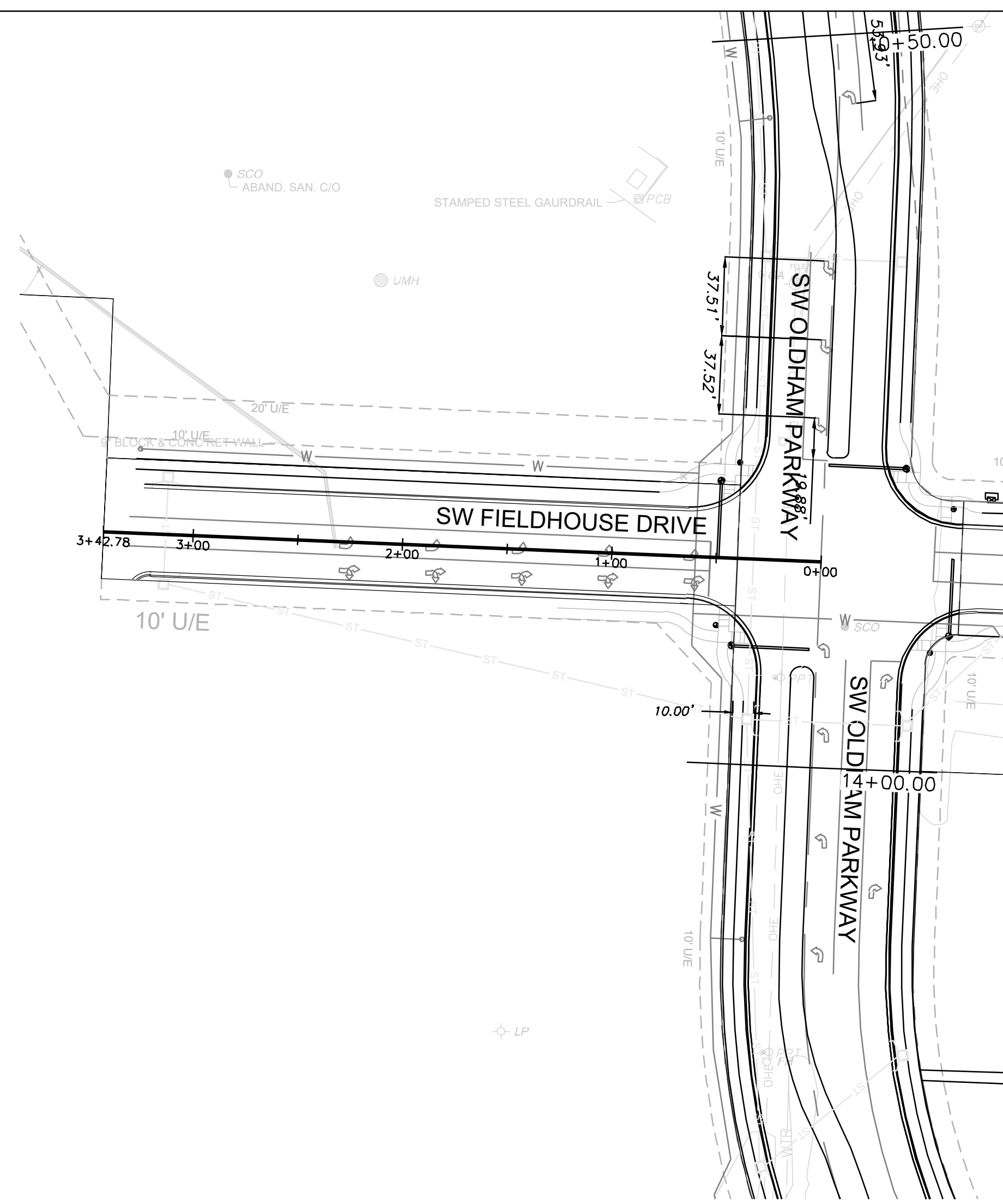
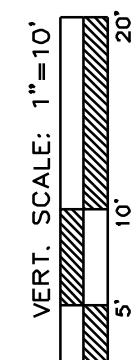
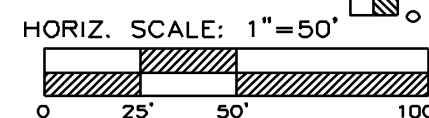
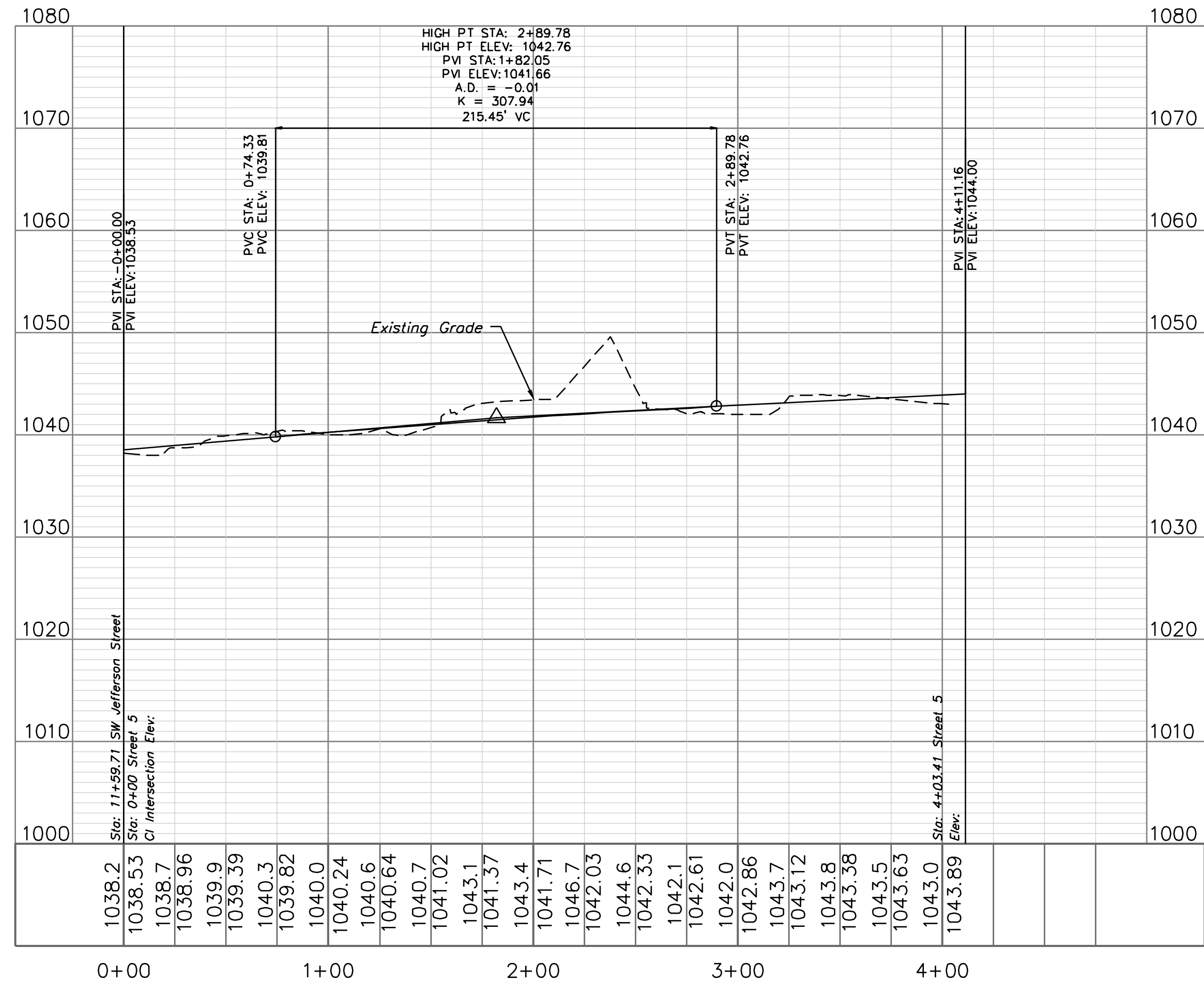


STREET 5

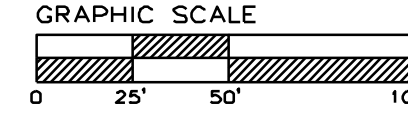
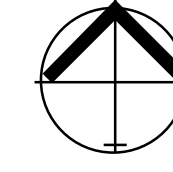
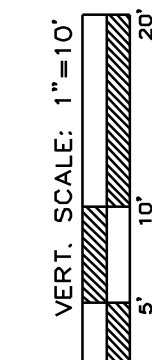
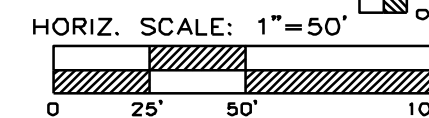
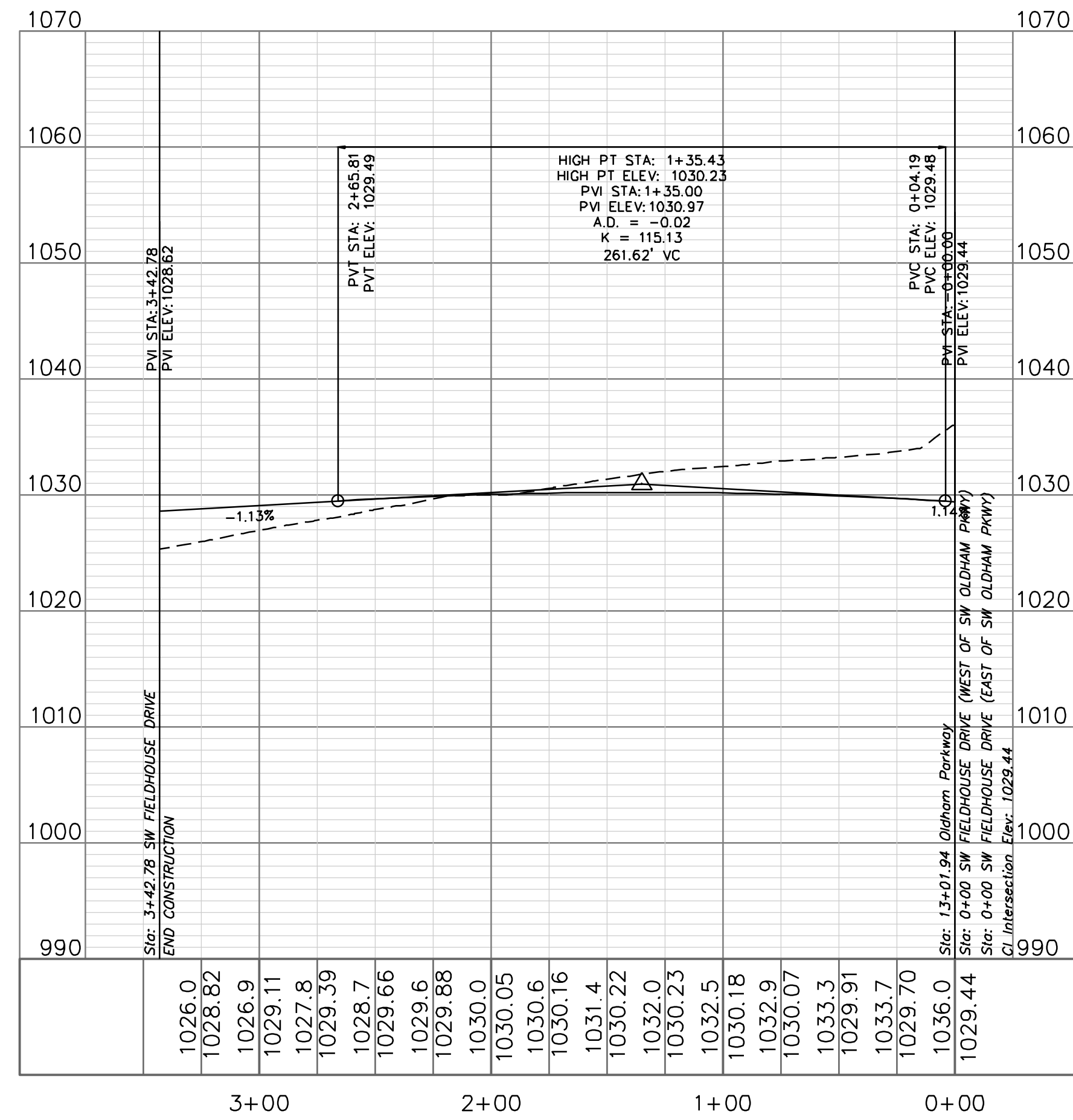
MO ROUTE 291



STREET PLAN & PROFILE
SCALE: 1" = 50'



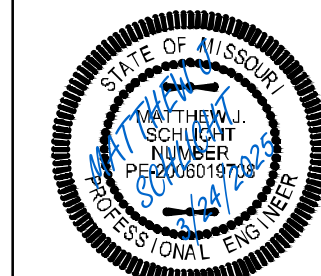
SW FIELDHOUSE DRIVE



STREET PLAN & PROFILE
SCALE: 1" = 50'

Street 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

C.206

Oldham Village
Lee's Summit, Jackson County, Missouri

Project: OLDHAM VILLAGE
LSMO
Issue Date:
November 5, 2024

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

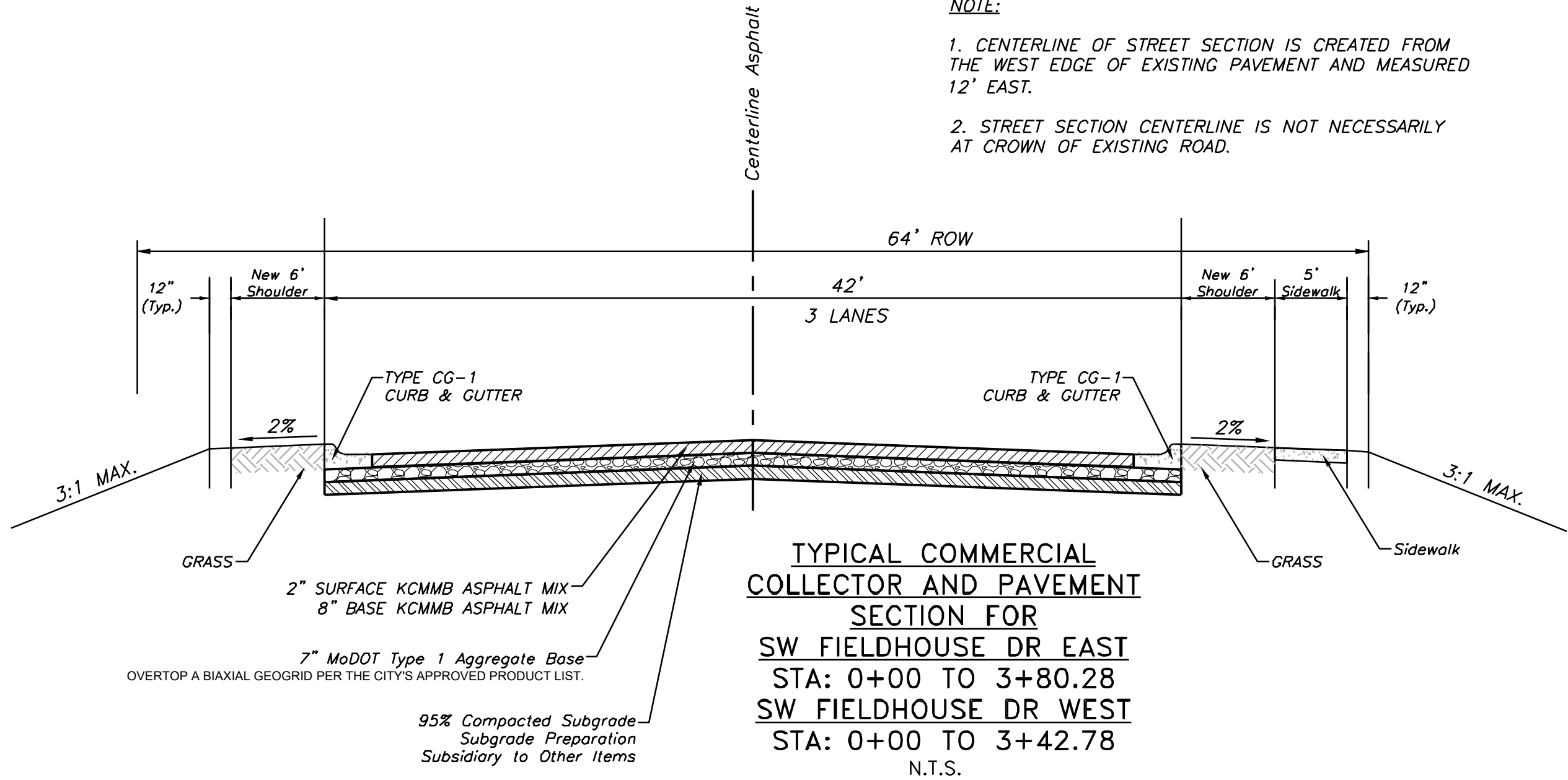
ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING
50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
P: (816) 623-9888 F: (816) 623-9849

GENERAL NOTES:

- 1 - ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
2 - ALL REQUIRED EASEMENTS WITHIN THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR ON THE FINAL PLAT.
3 - ANY REQUIRED EASEMENT LOCATED OUTSIDE OF THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR BY SEPARATE INSTRUMENT PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS.
4 - THE CONTRACTOR SHALL NOTIFY THE CITY OF LEE'S SUMMIT DEVELOPMENT ENGINEERING INSPECTION AT 816.969.1200 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
5 - THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH THE IMPROVEMENTS PROPOSED BY THESE PLANS AND SITE CONDITIONS.
6 - THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND OBTAIN THE APPROPRIATE BLASTING PERMITS FOR A REQUIRED BLASTING. IF BLASTING IS ALLOWED, ALL BLASTING SHALL CONFORM TO STATE REGULATIONS AND LOCAL ORDINANCES.

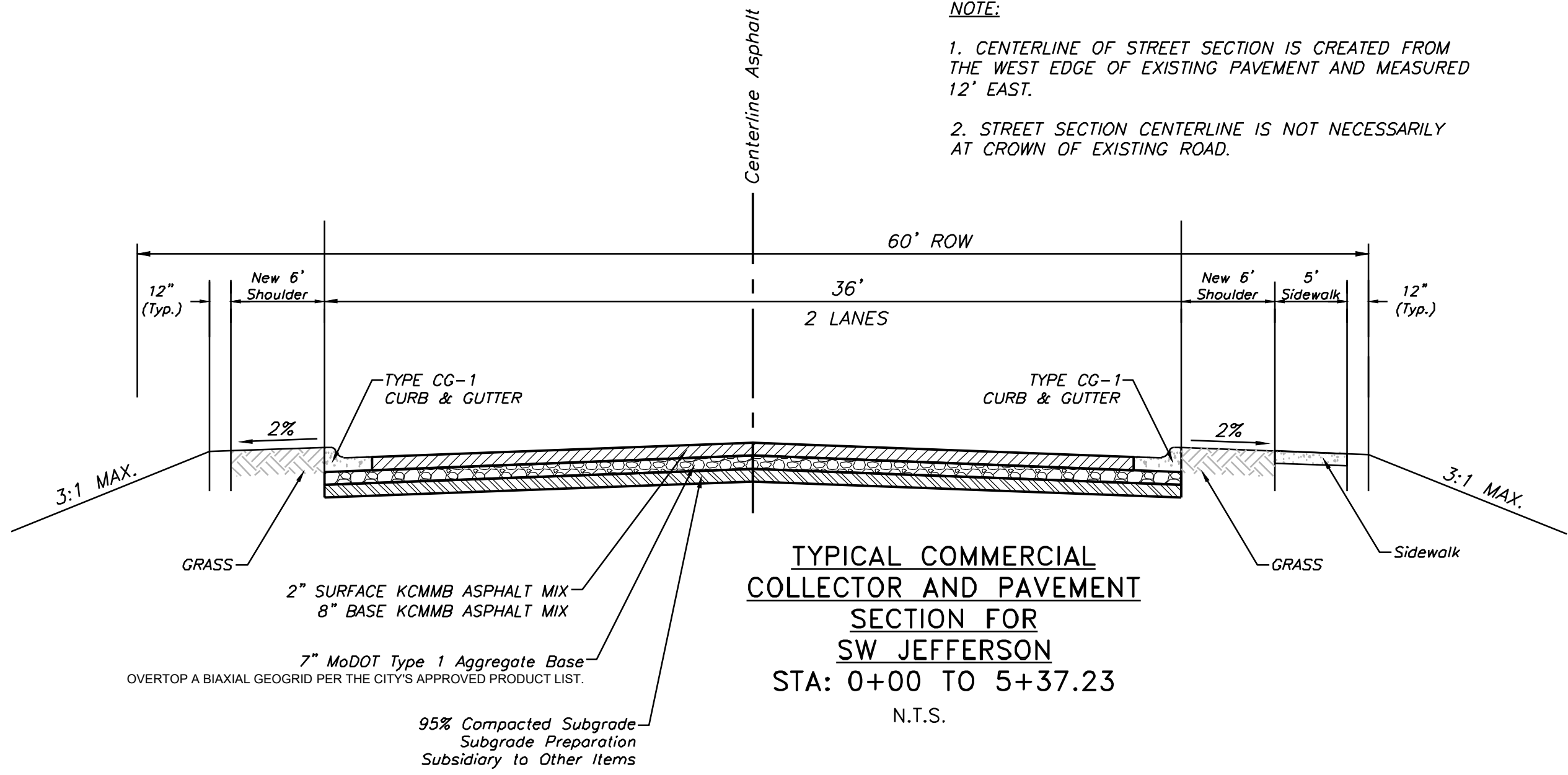
NOTE:

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.



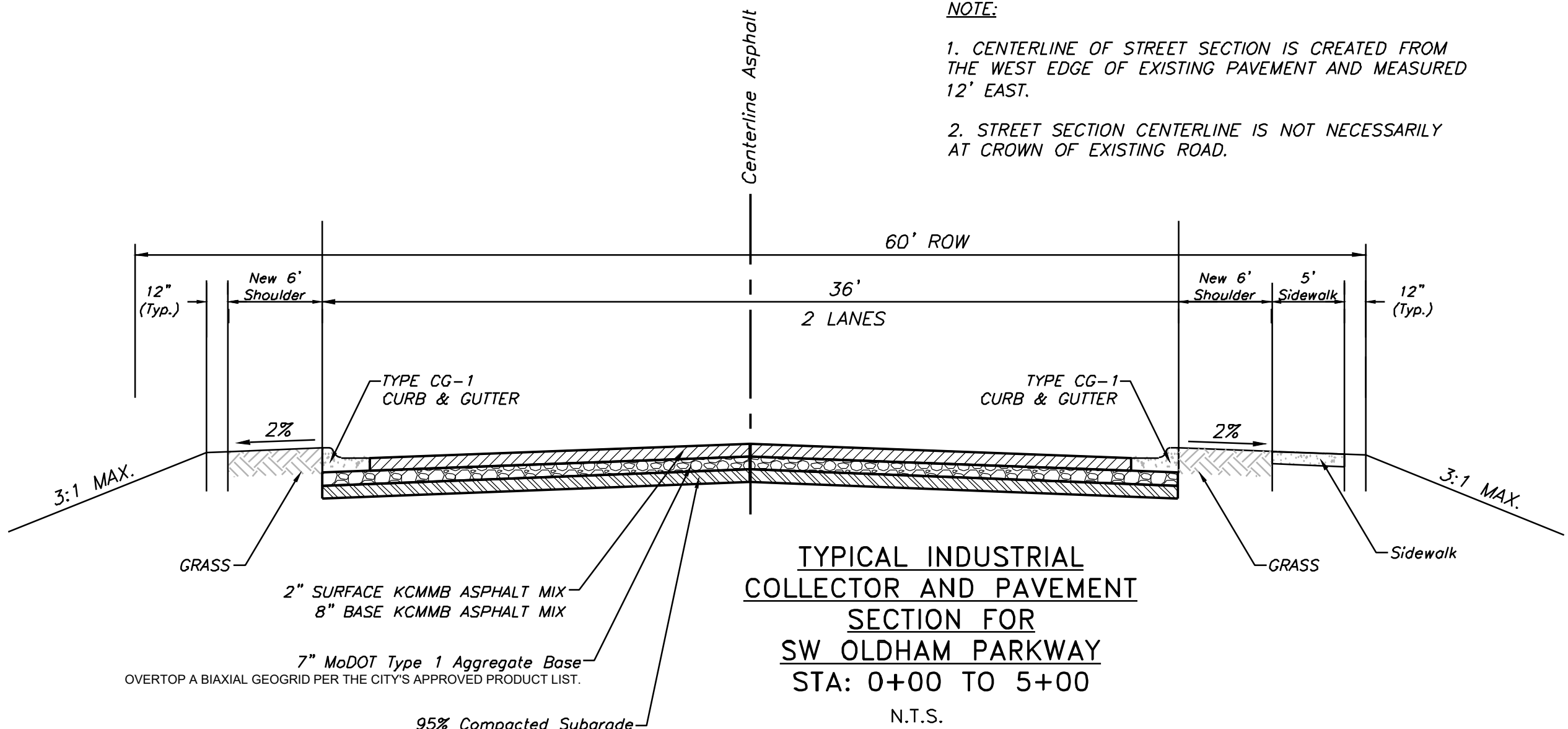
NOTE:

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.



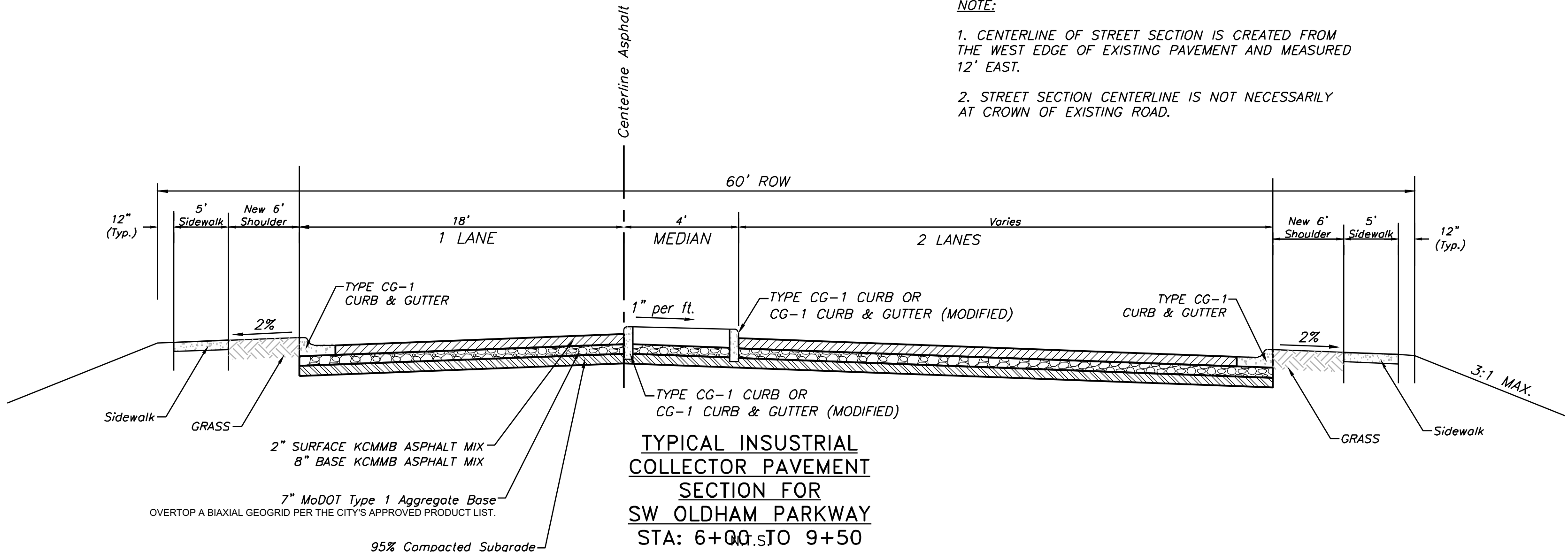
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2. STREET SECTION CENTERLINE IS NOT NECESSARILY AT CROWN OF EXISTING ROAD.



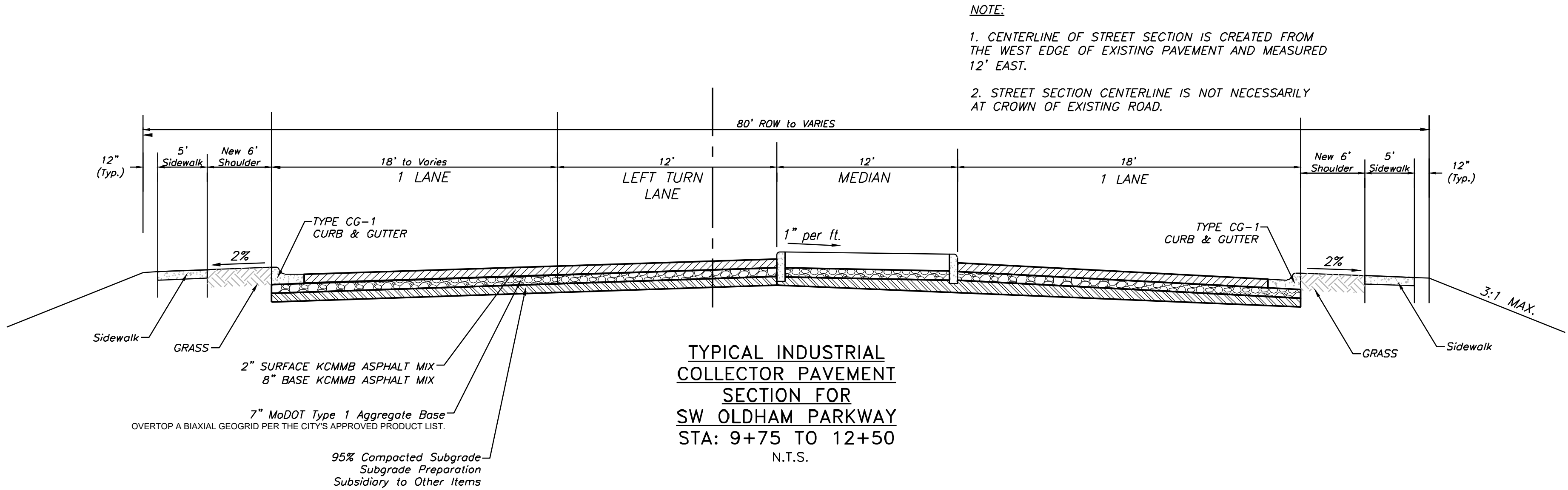
NOTE:

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



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



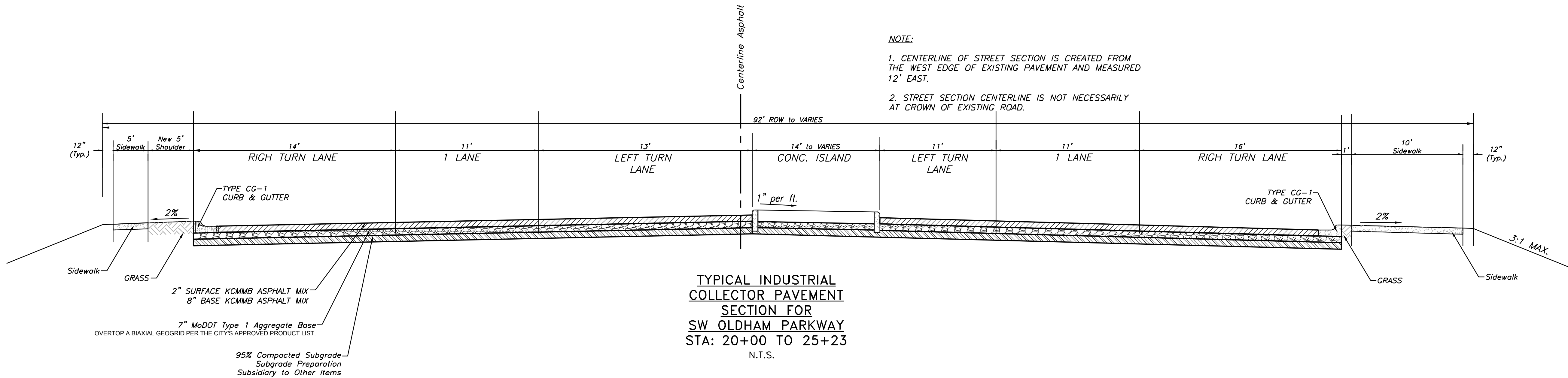
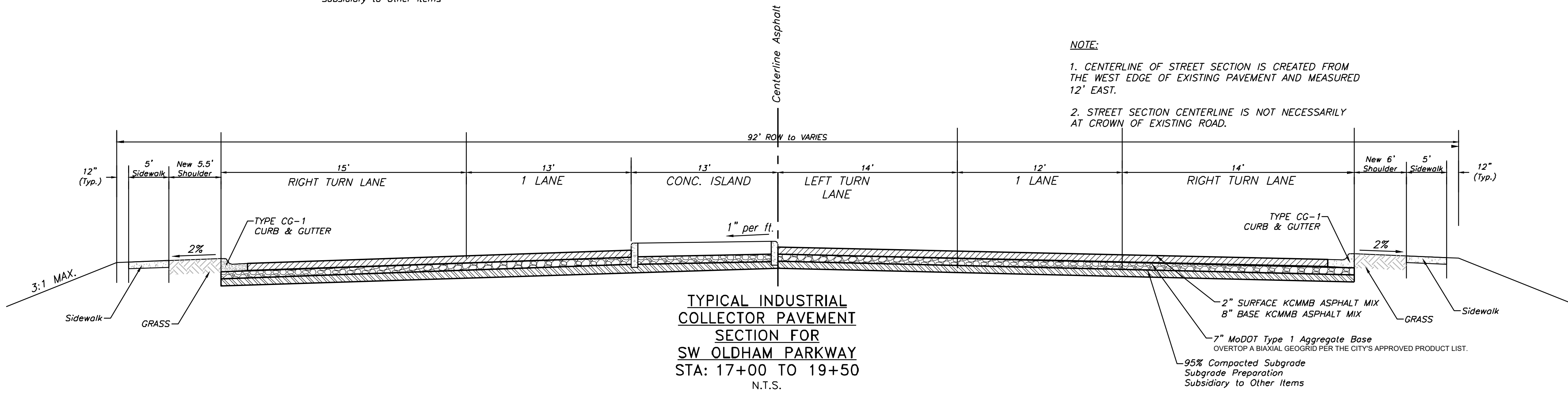
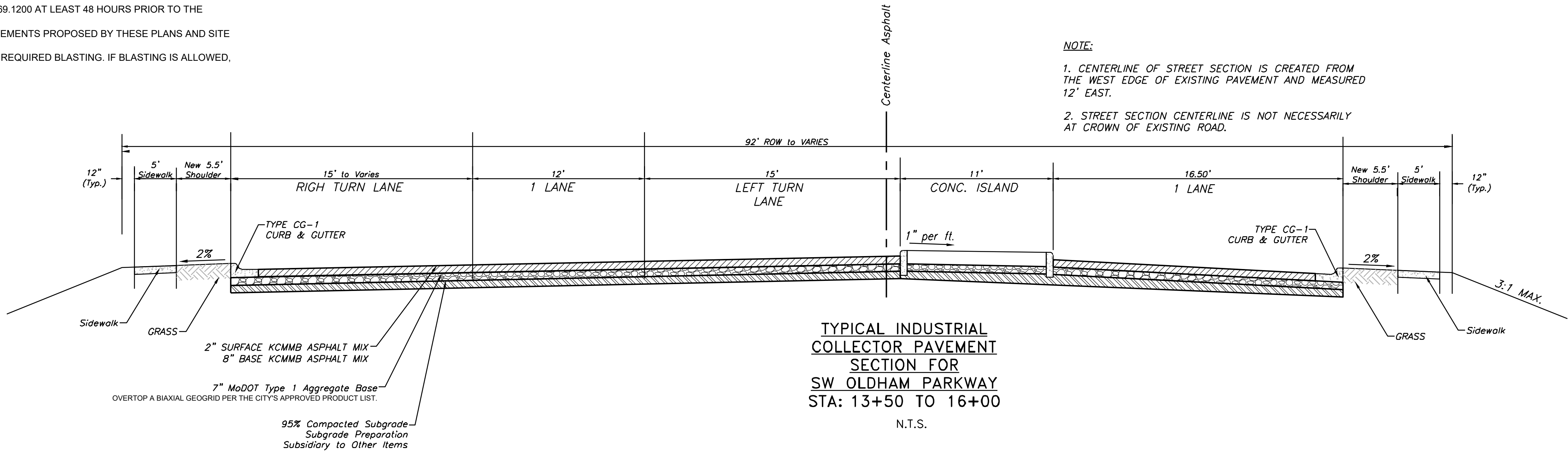
B. Weather Limitations: When the moisture of the aggregate in the stockpile or from the dryer interferes with the quality of mix production, or with normal plant operations, the mixing and placing of hot-mix asphalt will not be permitted without the permission of the Engineer. No mixture shall be placed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

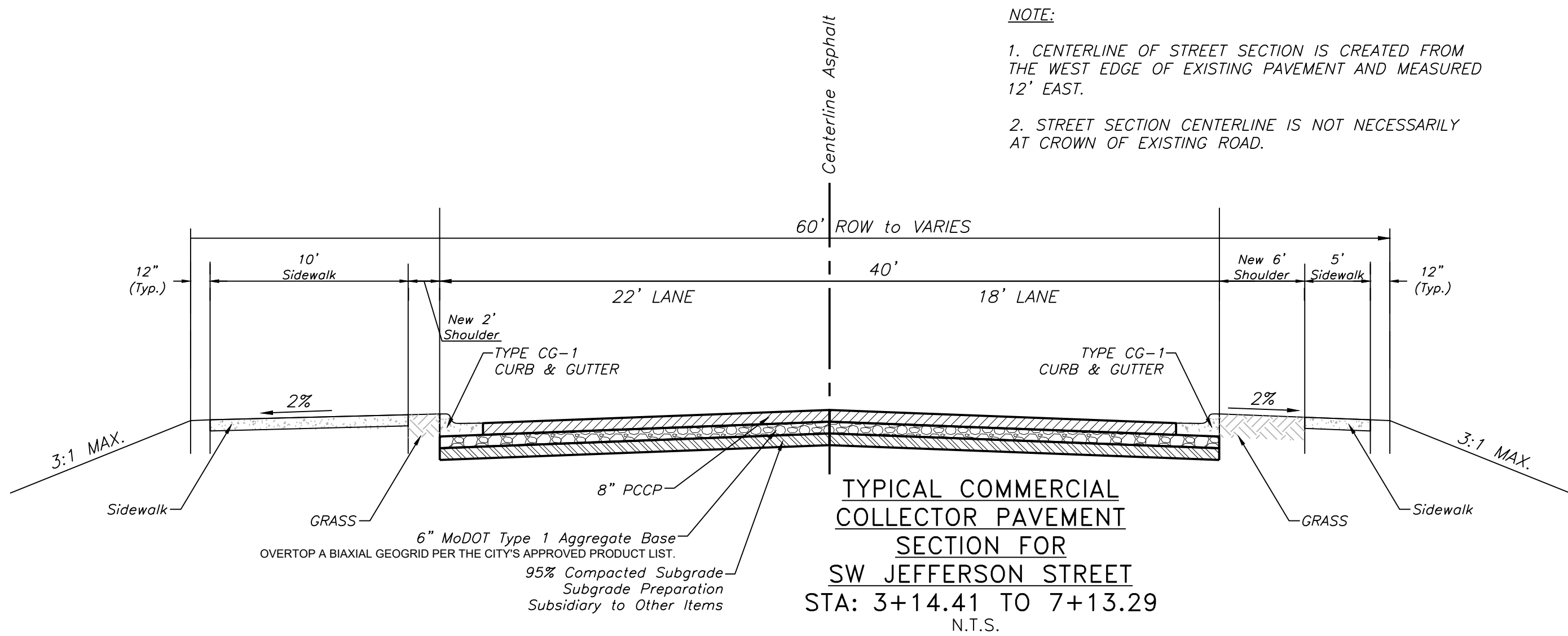
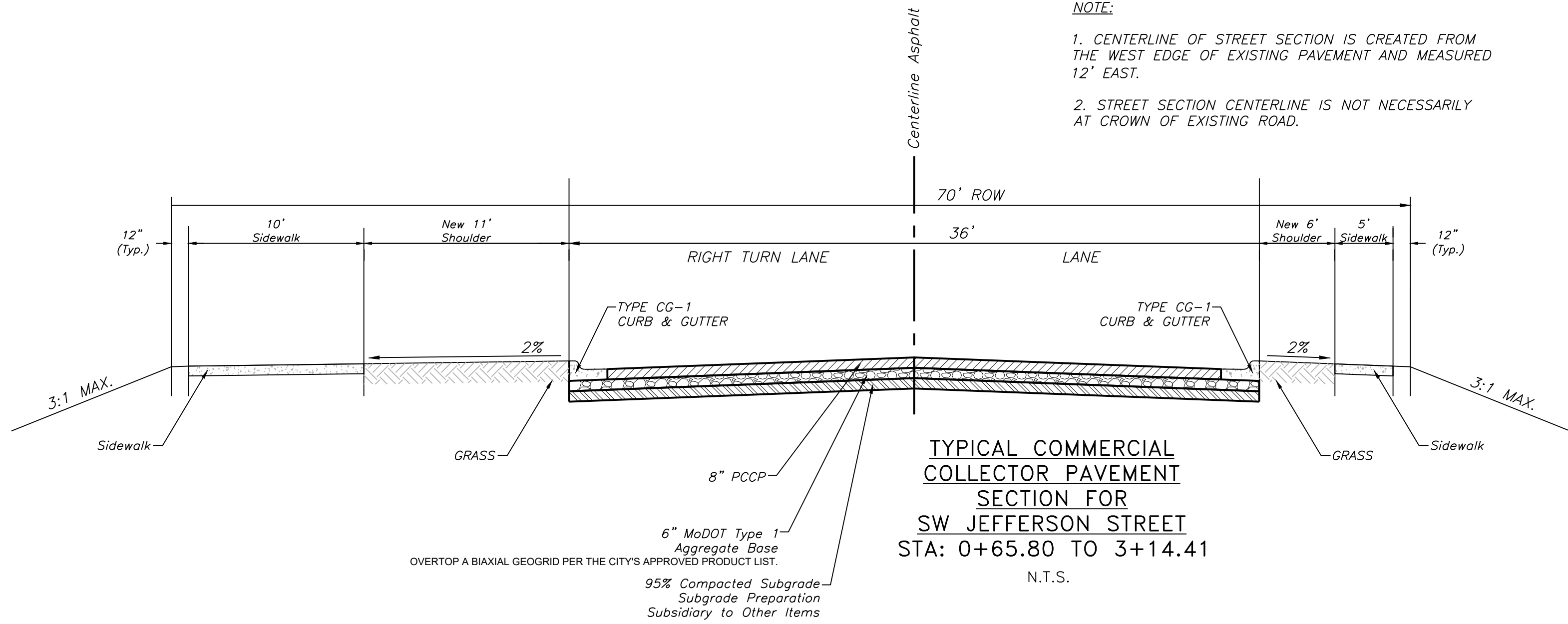
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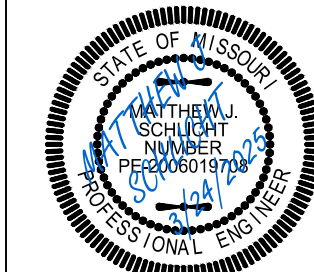


Oldham Parkway
Construction Notes and Cross Section
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri

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

Oldham Village
Lee's Summit, Jackson County, Missouri

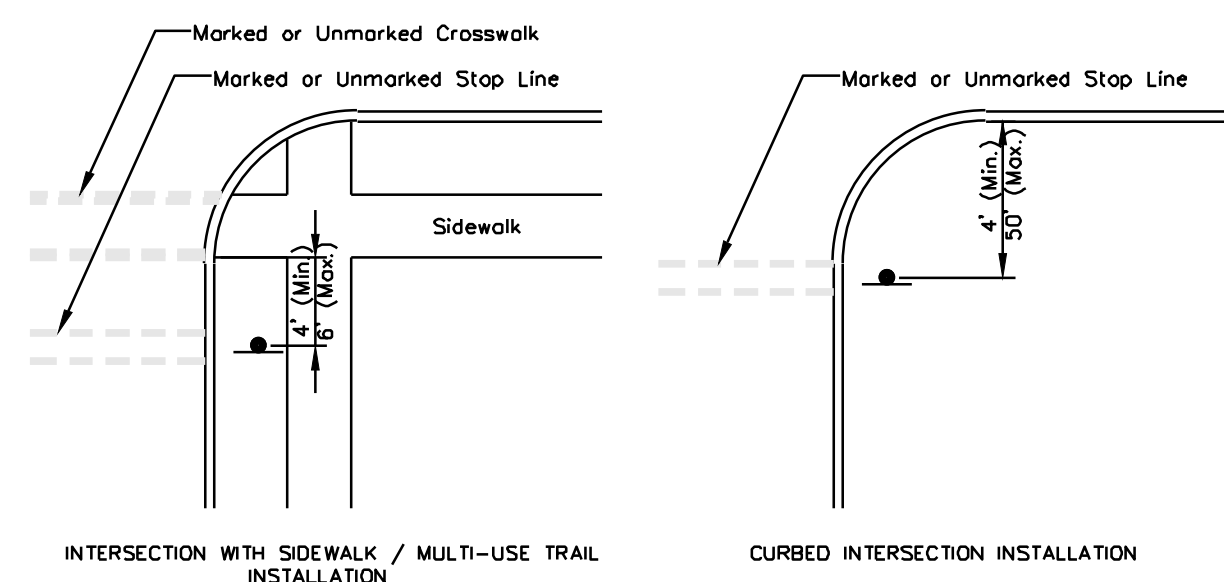
Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1685
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821



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



30", 36", 42", or 48"

1'-1 1/2" (MIN.)

2" (MIN.)

HIGHWAY SERIES C (MIXED CASE)*

2" (MIN.)

1'-1 1/2" (MIN.)

2"

sw Longview Blvd

1 1/8" (MIN.)

1'-1/2"

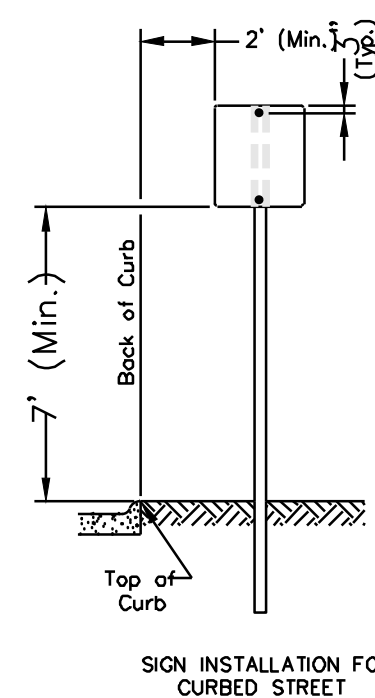
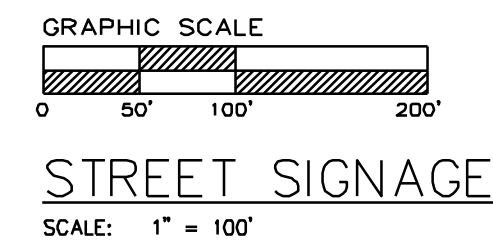
1/8" (MIN.)

HIGHWAY SERIES C (MIXED CASE) 2" (MIN.) (UPON 2.25" LOWER TOP)

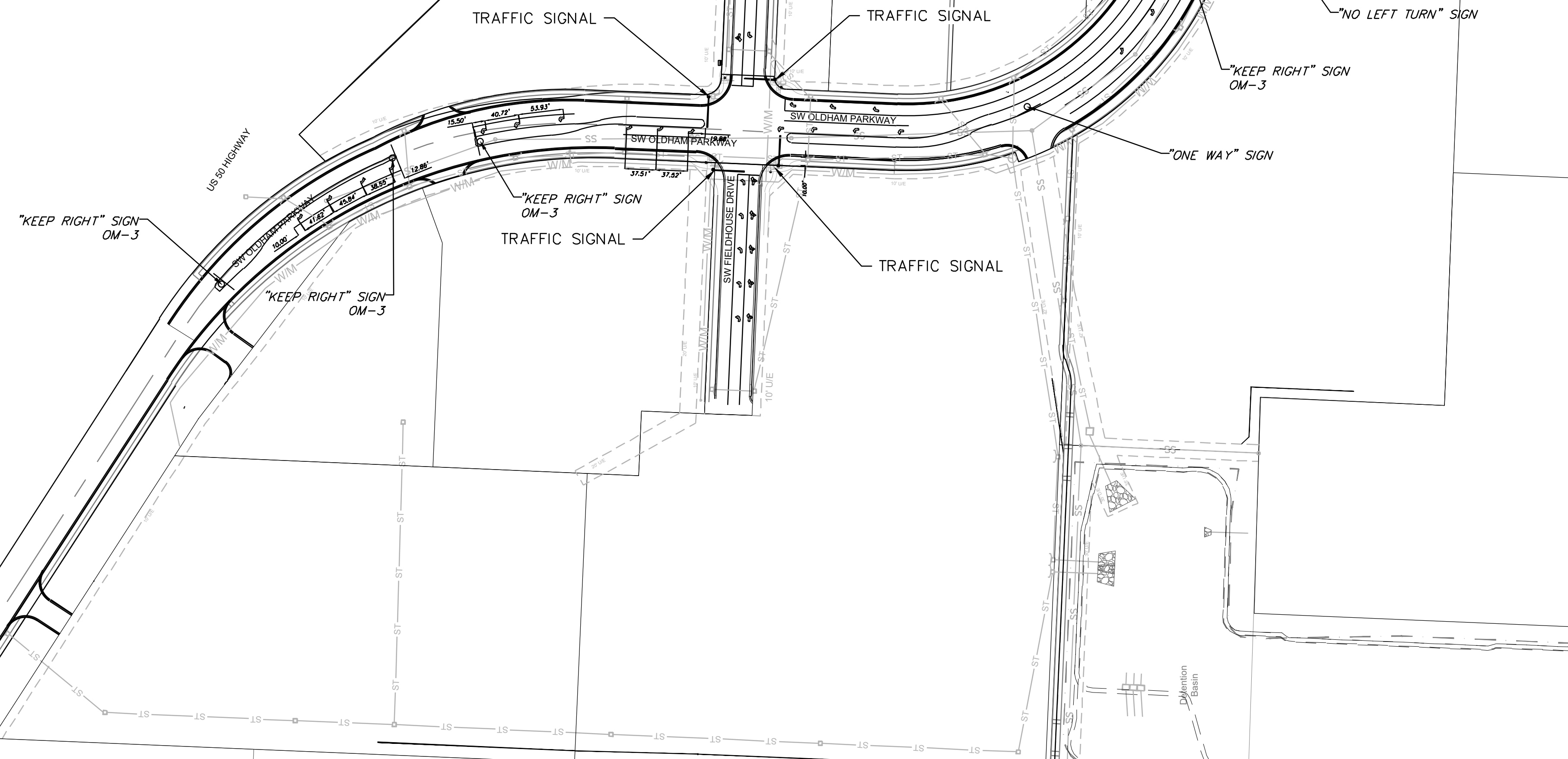
* USE HIGHWAY SERIES C (MIXED CASE) IN A SET OF SERIES C. IF NECESSARY TO FIT TEXT ON A 36" SIGN BLANK.

STREET NAME SIGN FACE DETAILS

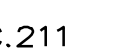
POST MOUNTED 2-LANE ALL SPEEDS AND MULTI-LANE UNDER 40 MPH

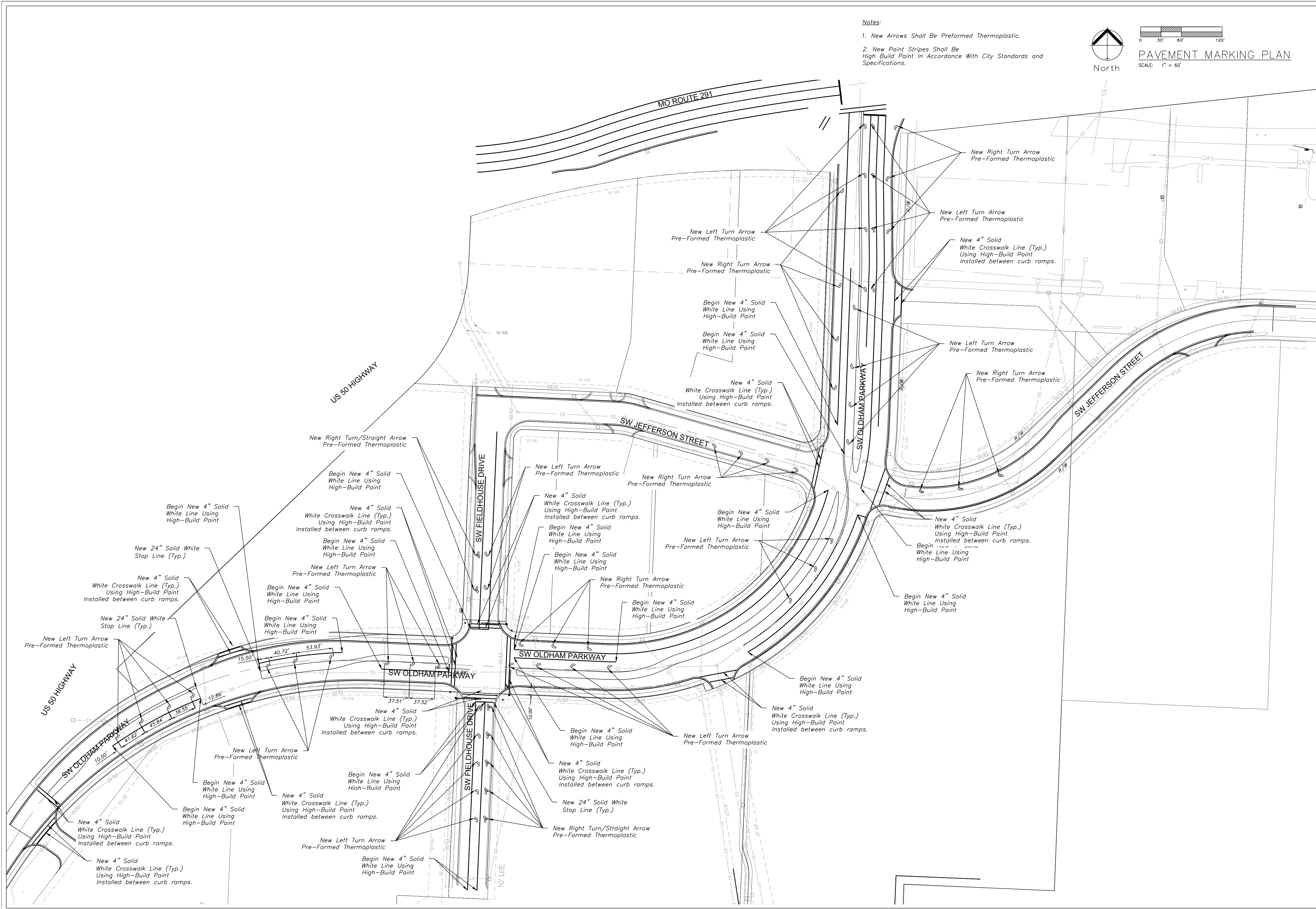


* The height to the bottom of a sign when it is located in a pedestrian walkway or extends into a walkway shall be a minimum of 80 inches above the walkway.

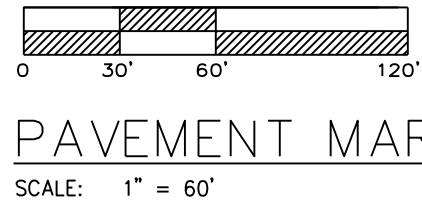
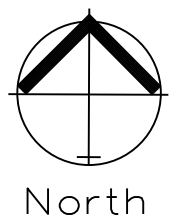


C.210





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



PAVEMENT MARKING PLAN

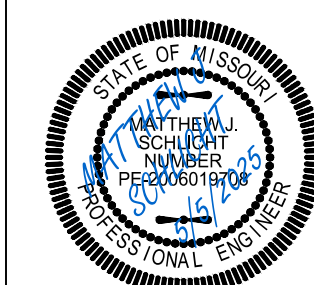


Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 5254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

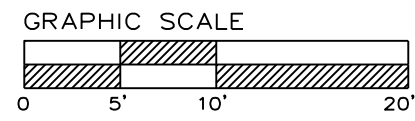
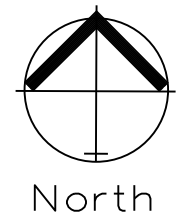
Project
MARKETPLACE
LSMO
Issue Date
November 6, 2024

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



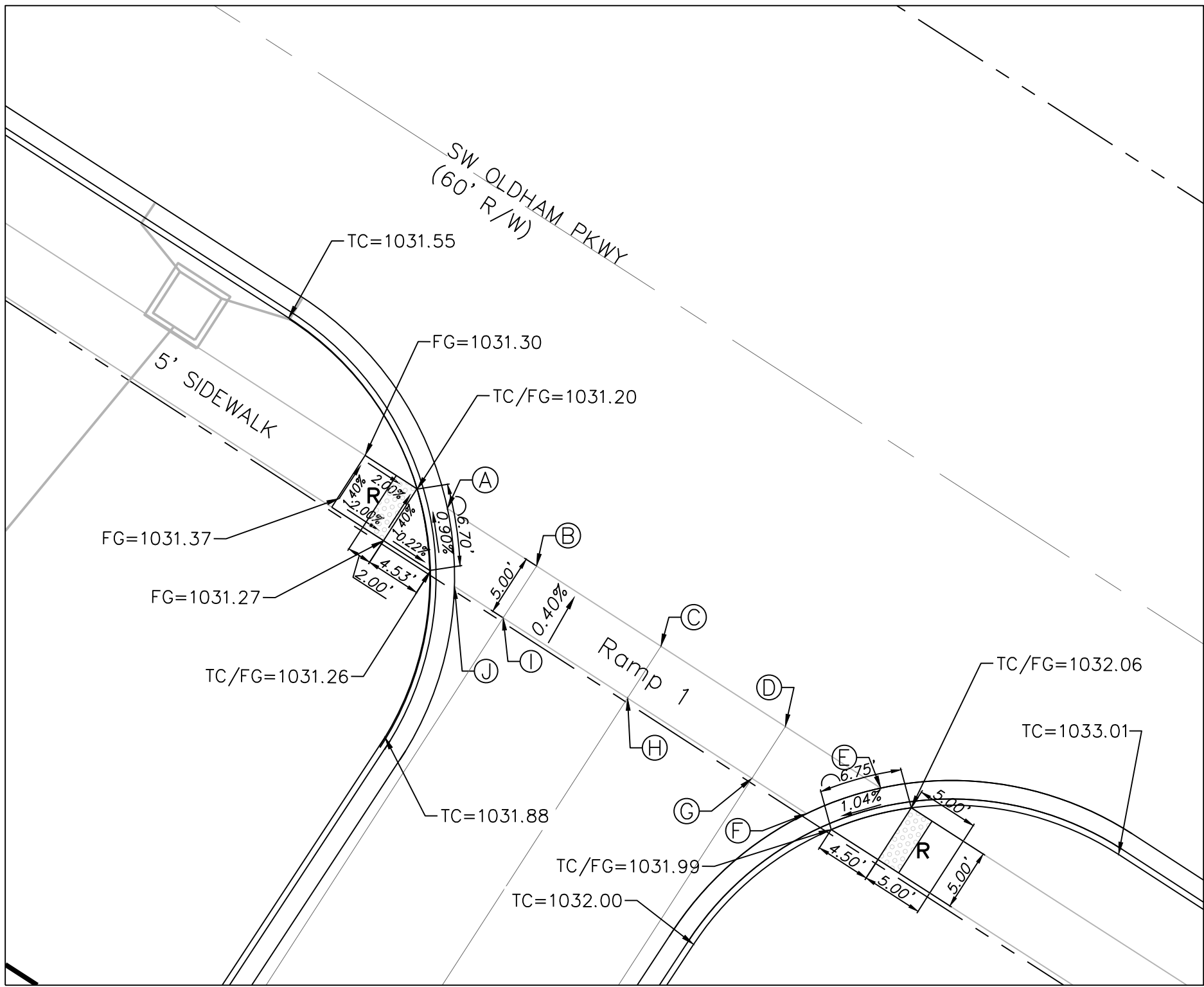
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

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	

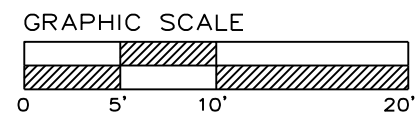
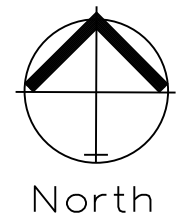


SIDEWALK AND INTERSECTION PLAN

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

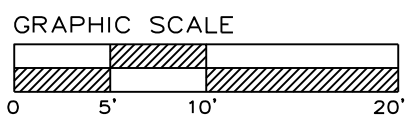
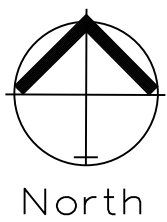
FG = Finished Grade

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 2 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

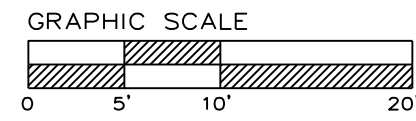
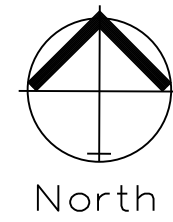


SIDEWALK AND INTERSECTION PLAN

SCALE: 1" = 10'

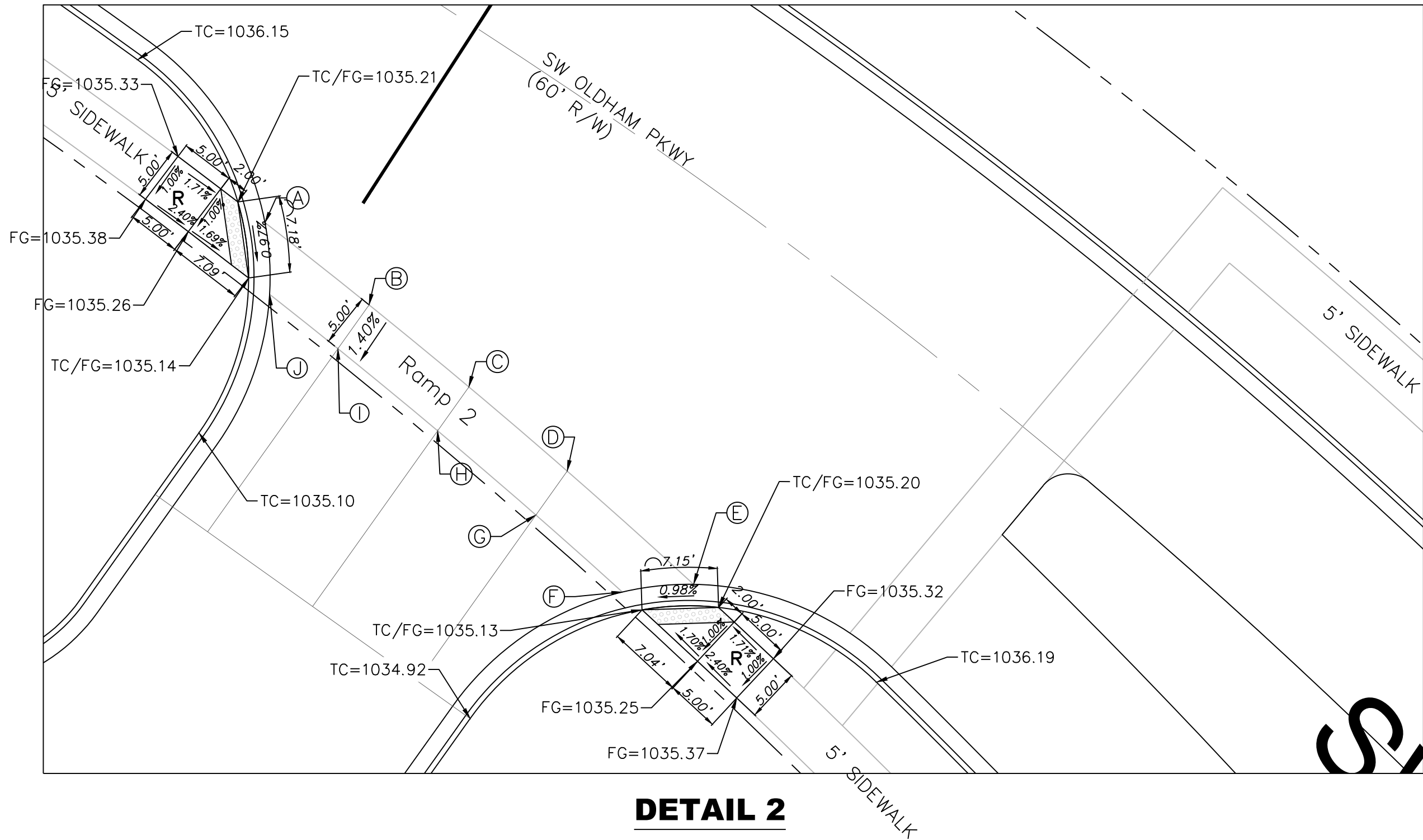
SPOT ELEVATION TABLE				
Spot	Ramp 5 Elevation	Ramp 6 Elevation	Ramp 7 Elevation	Ramp 8 Elevation
A	1029.10	1029.32	1029.10	1029.80
B	1029.21	1029.63	1029.27	1029.95
C	1029.30	1029.86	1029.39	1030.21
D	1029.27	1029.58	1029.29	1029.90
E	1029.25	1029.27	1029.15	1029.65
F	1029.19	1029.35	1029.22	1029.59
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

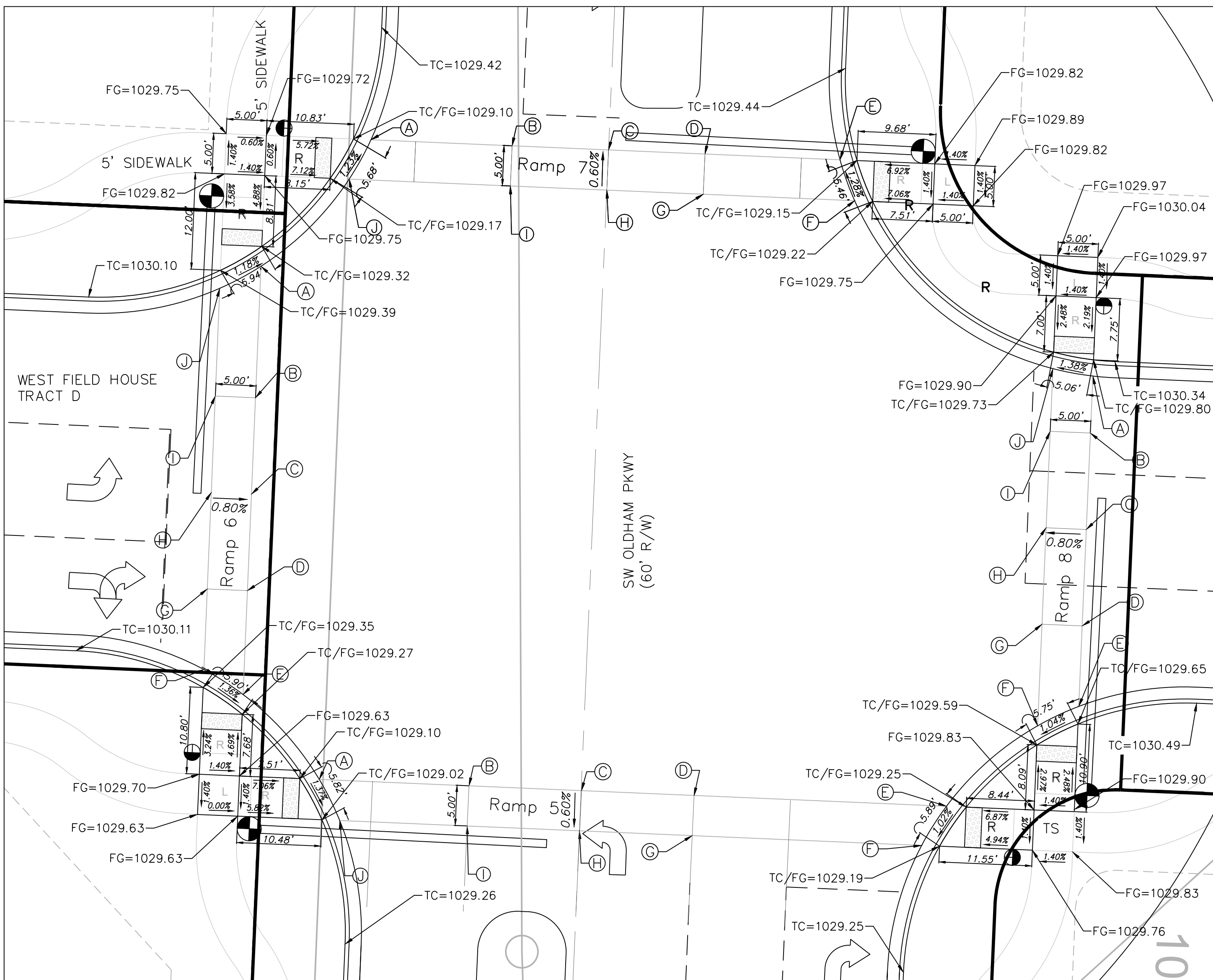


SIDEWALK AND INTERSECTION PLAN

SCALE: 1" = 10'



DETAIL 2

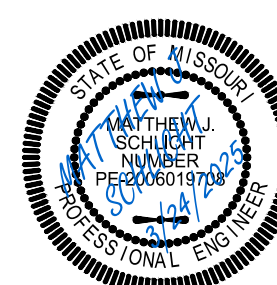


Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1685
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

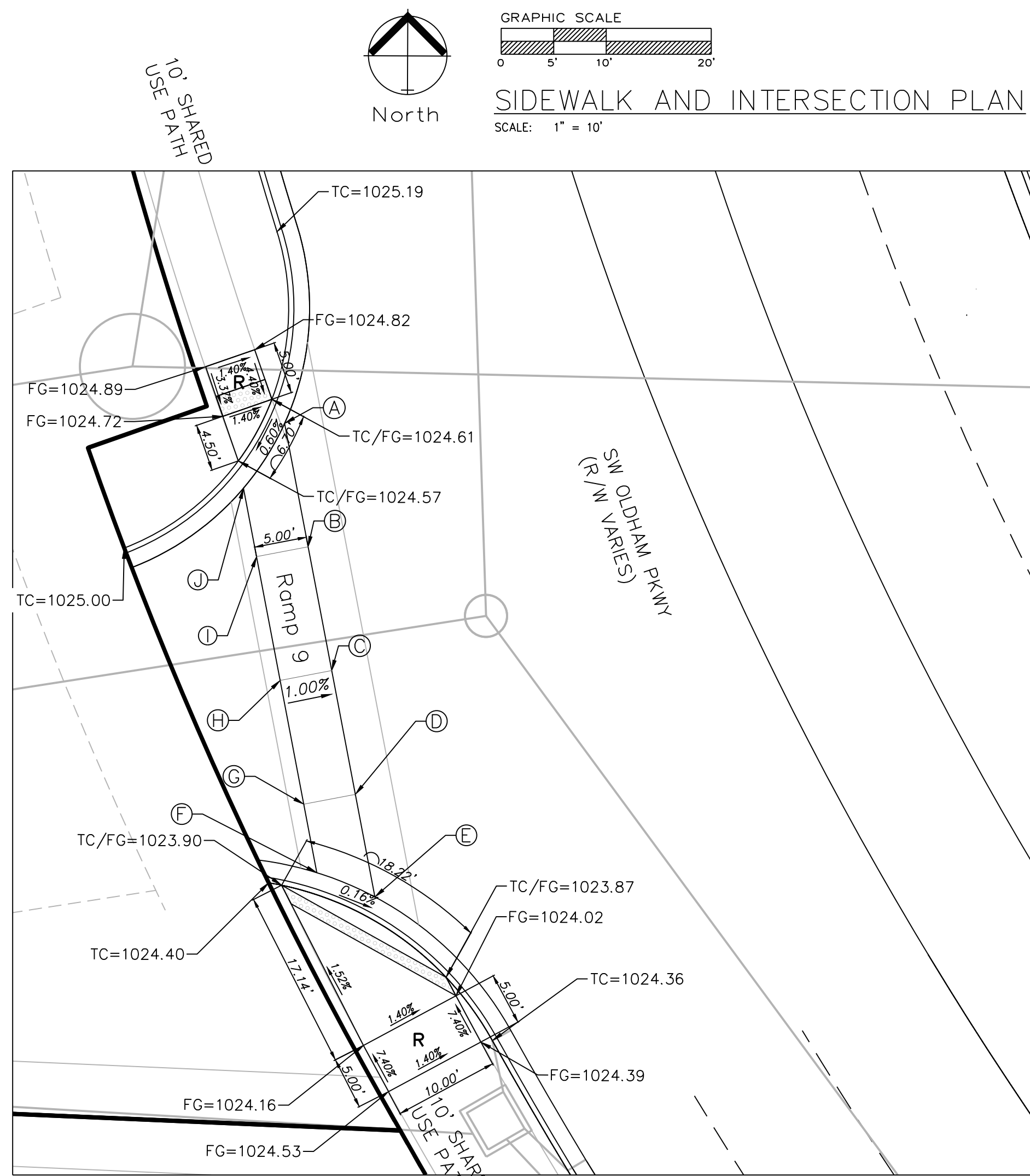
Project
MARKETPLACE
LSMO
Issue Date
November 6, 2024

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

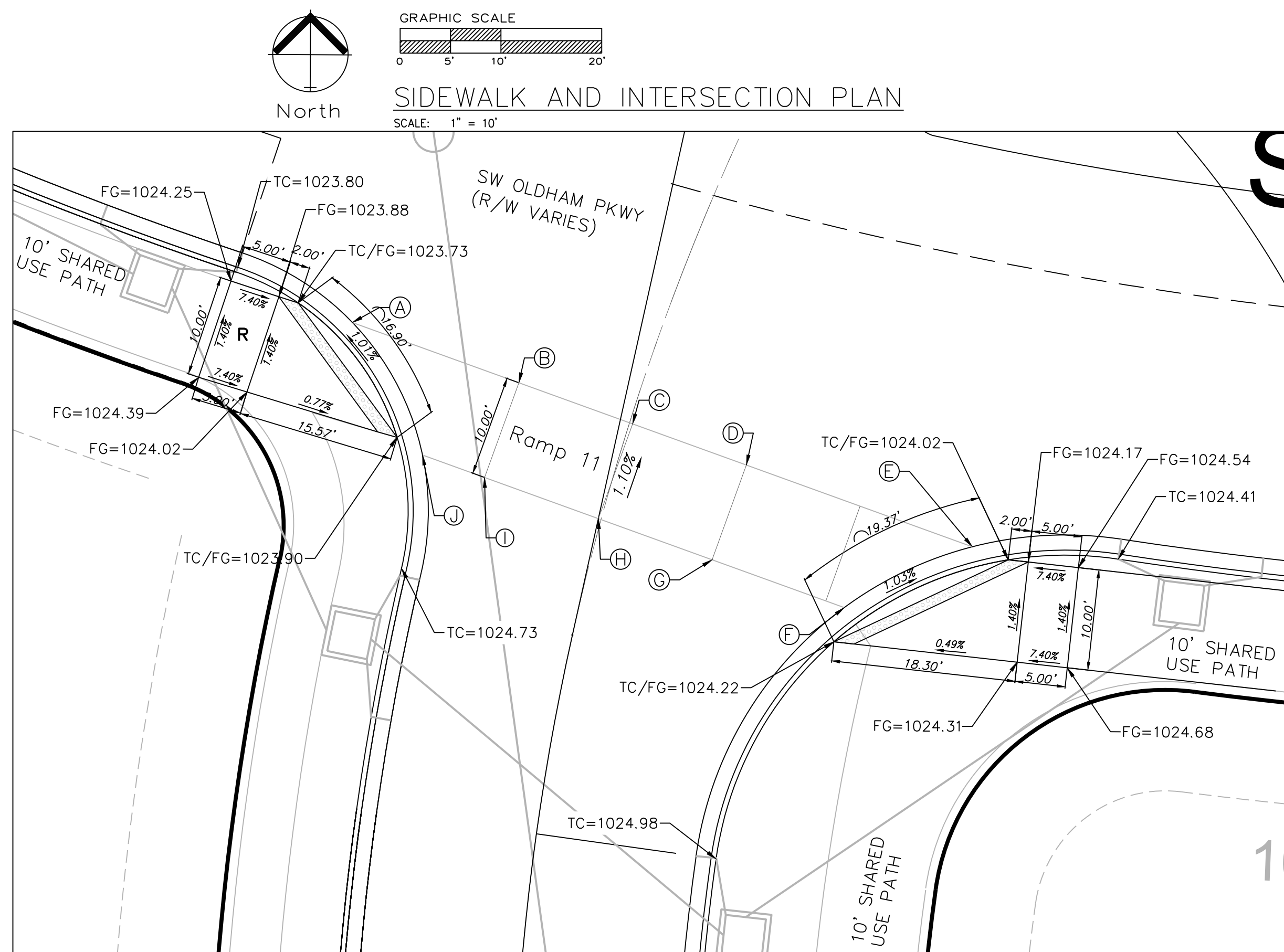


Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
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REVISIONS	
REV. 12/10/2024	
REV. 1/2/2025	
REV. 2/6/2025	
REV. 3/5/2025	
REV. 3/24/2025	



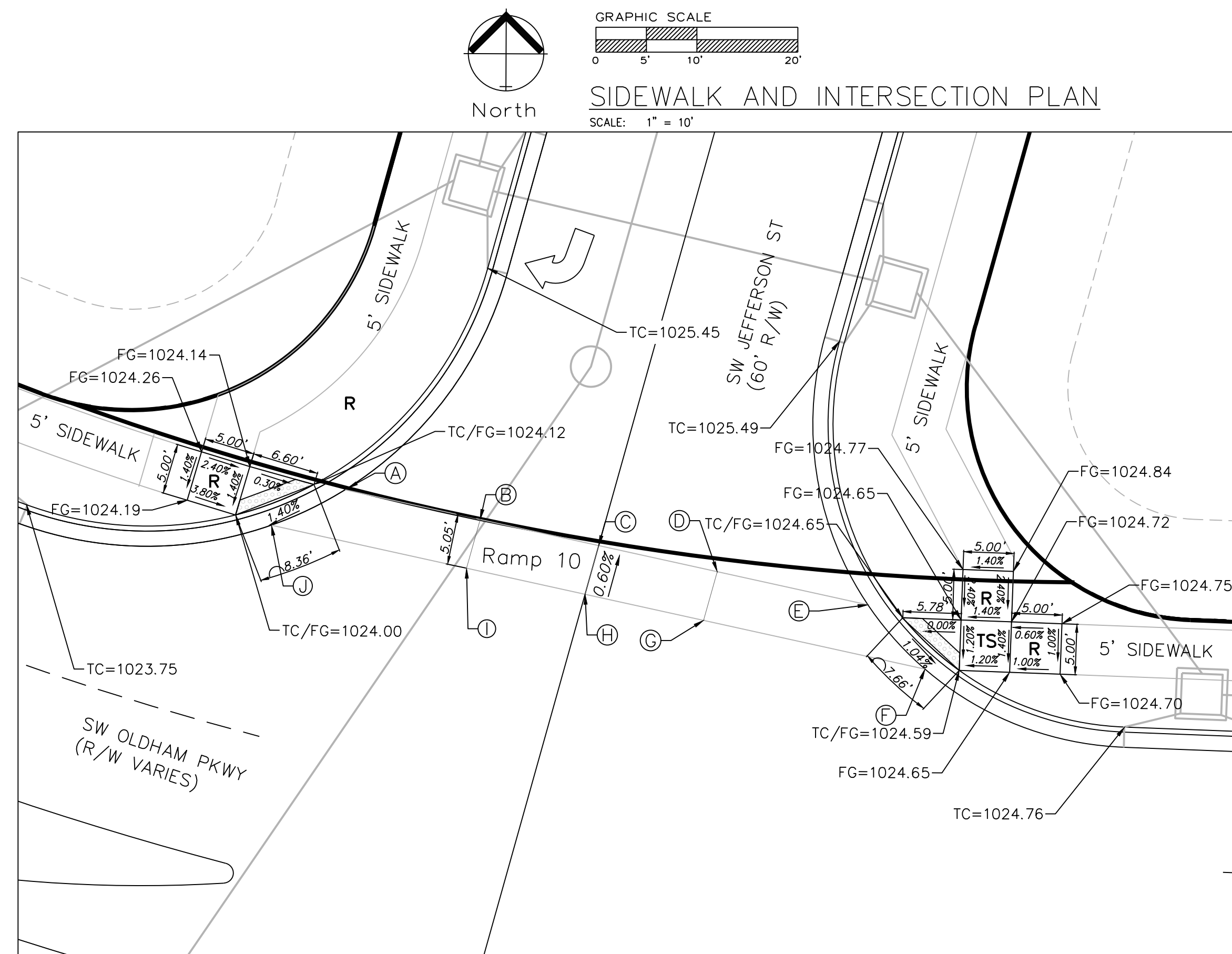
DETAIL 5



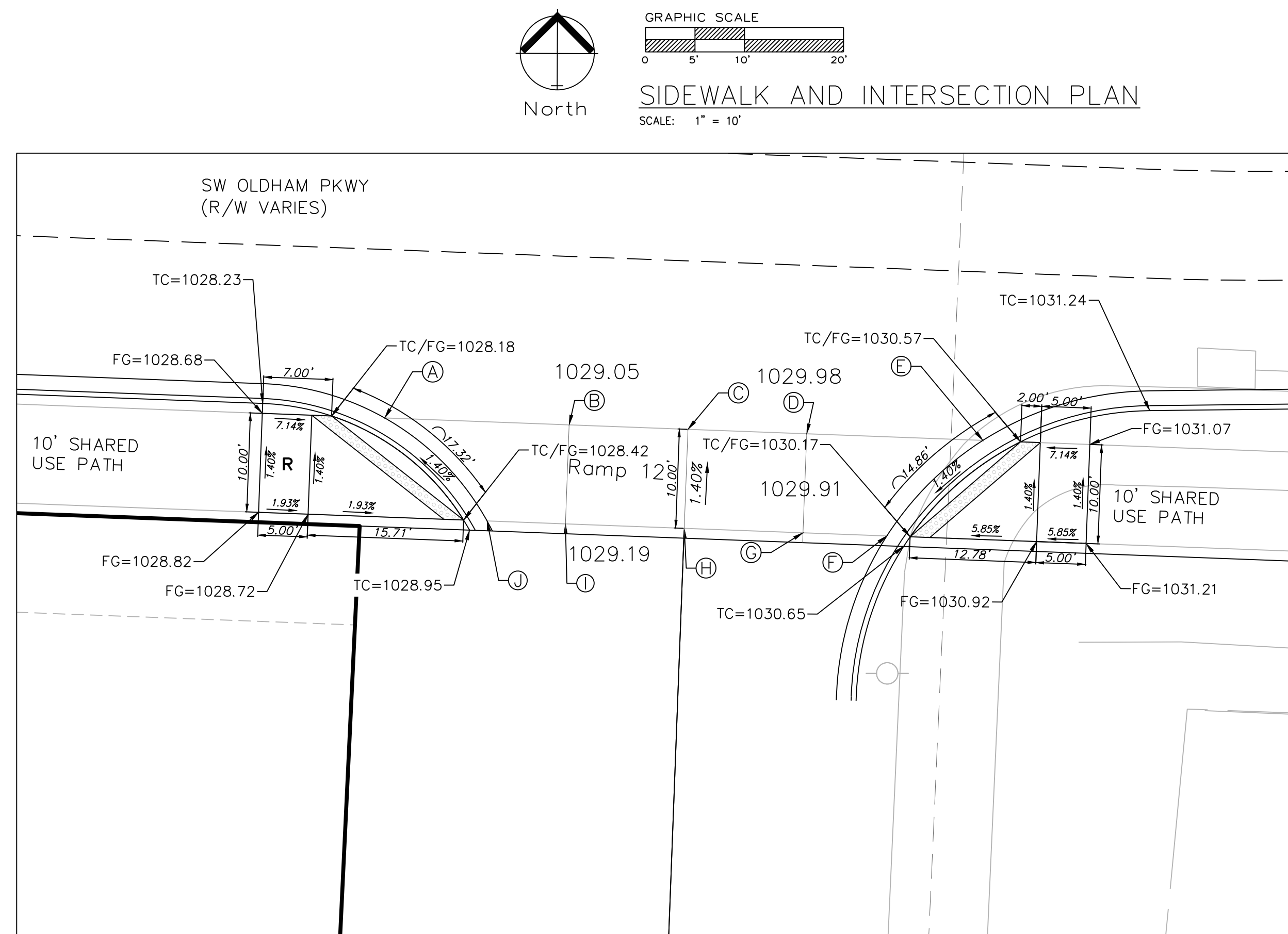
DETAIL 7

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
 [Pattern] Detectable Warning

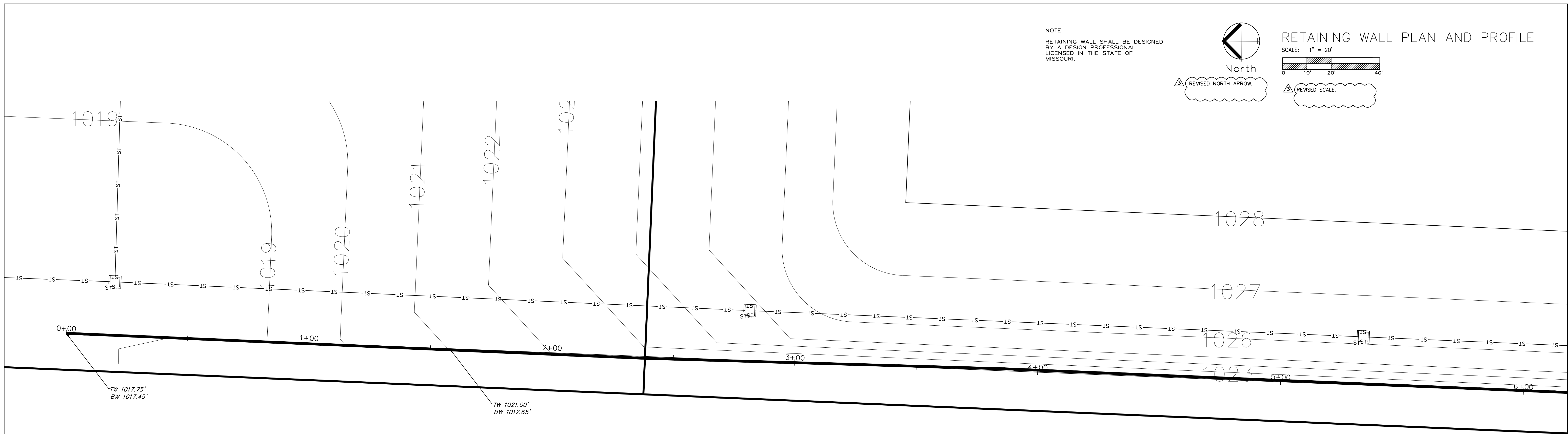
SPOT ELEVATION TABLE				
Spot	Ramp 9 Elevation	Ramp 10 Elevation	Ramp 11 Elevation	Ramp 12 Elevation
A	1024.61	1024.12	1023.73	1028.18
B	1024.62	1024.57	1024.14	1029.05
C	1024.64	1024.94	1024.42	1029.58
D	1024.23	1024.83	1024.29	1029.98
E	1023.89	1024.65	1024.02	1030.57
F	1023.90	1024.59	1024.22	1030.17
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



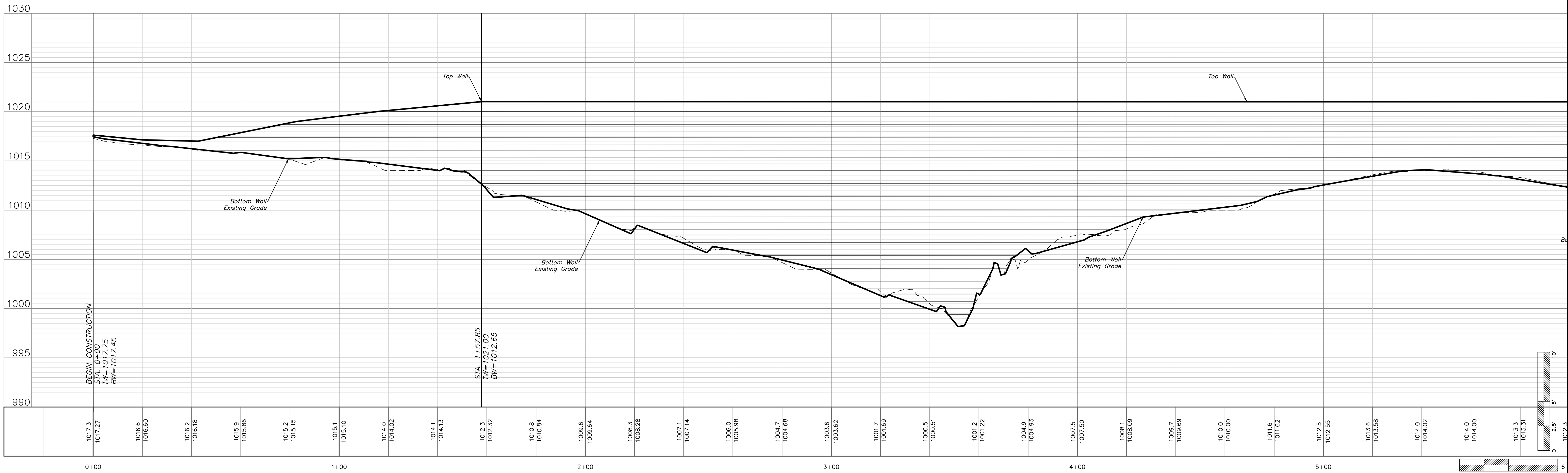
DETAIL 6



DETAIL 8



RETAINING WALL 1



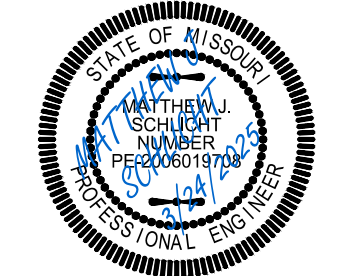
Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1685
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Project
MARKETPLACE
LSMO
Issue Date
November 6, 2024

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

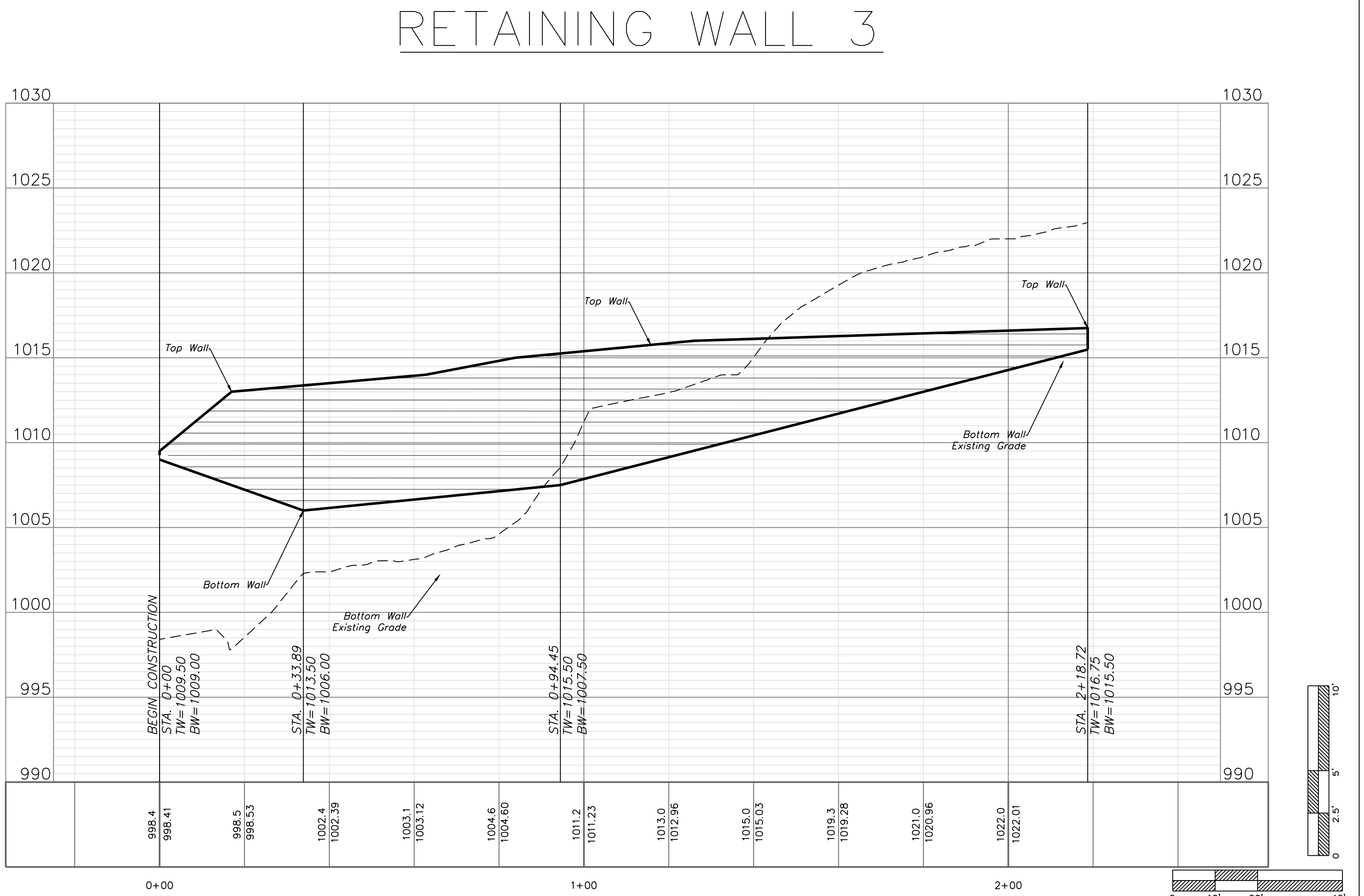
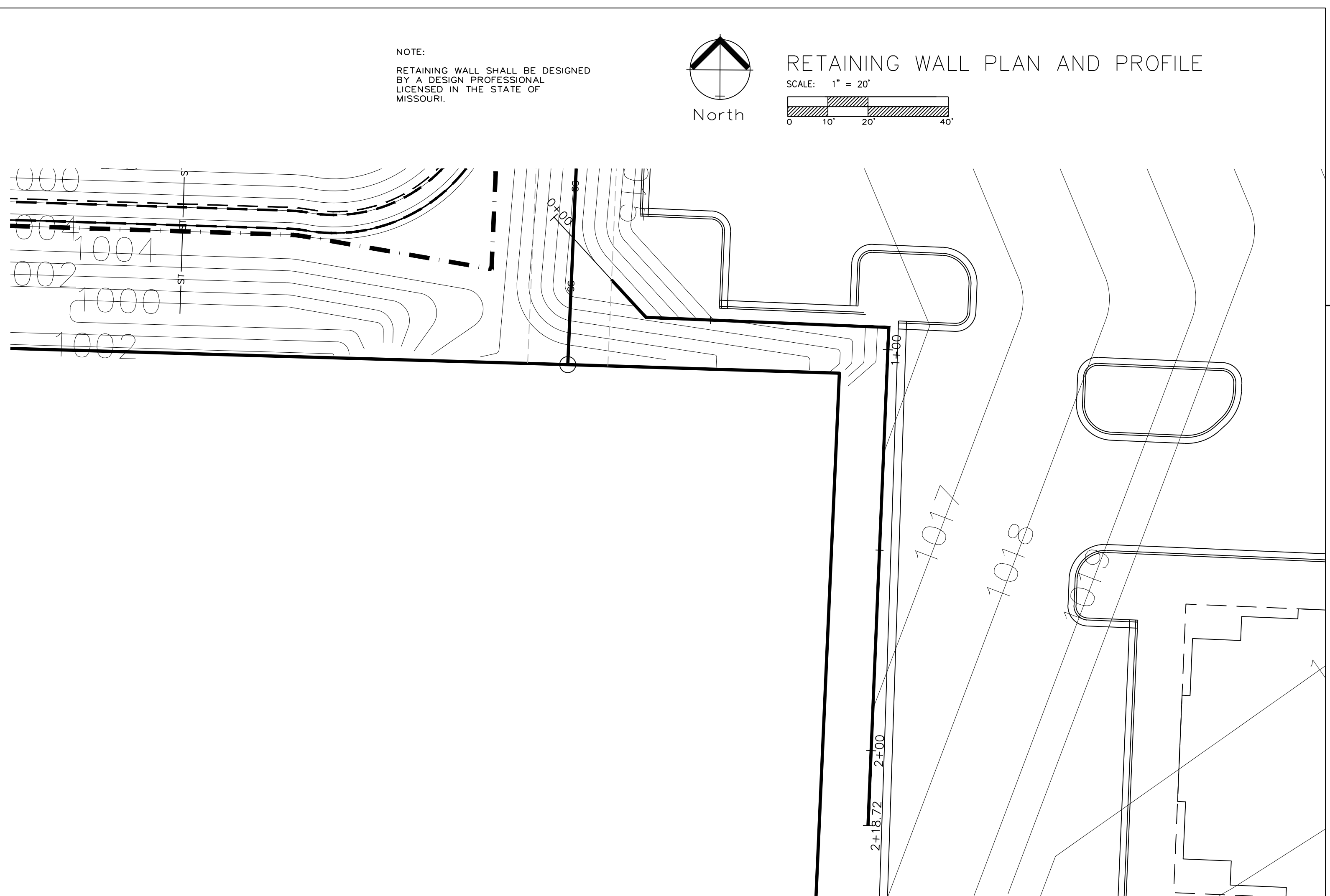
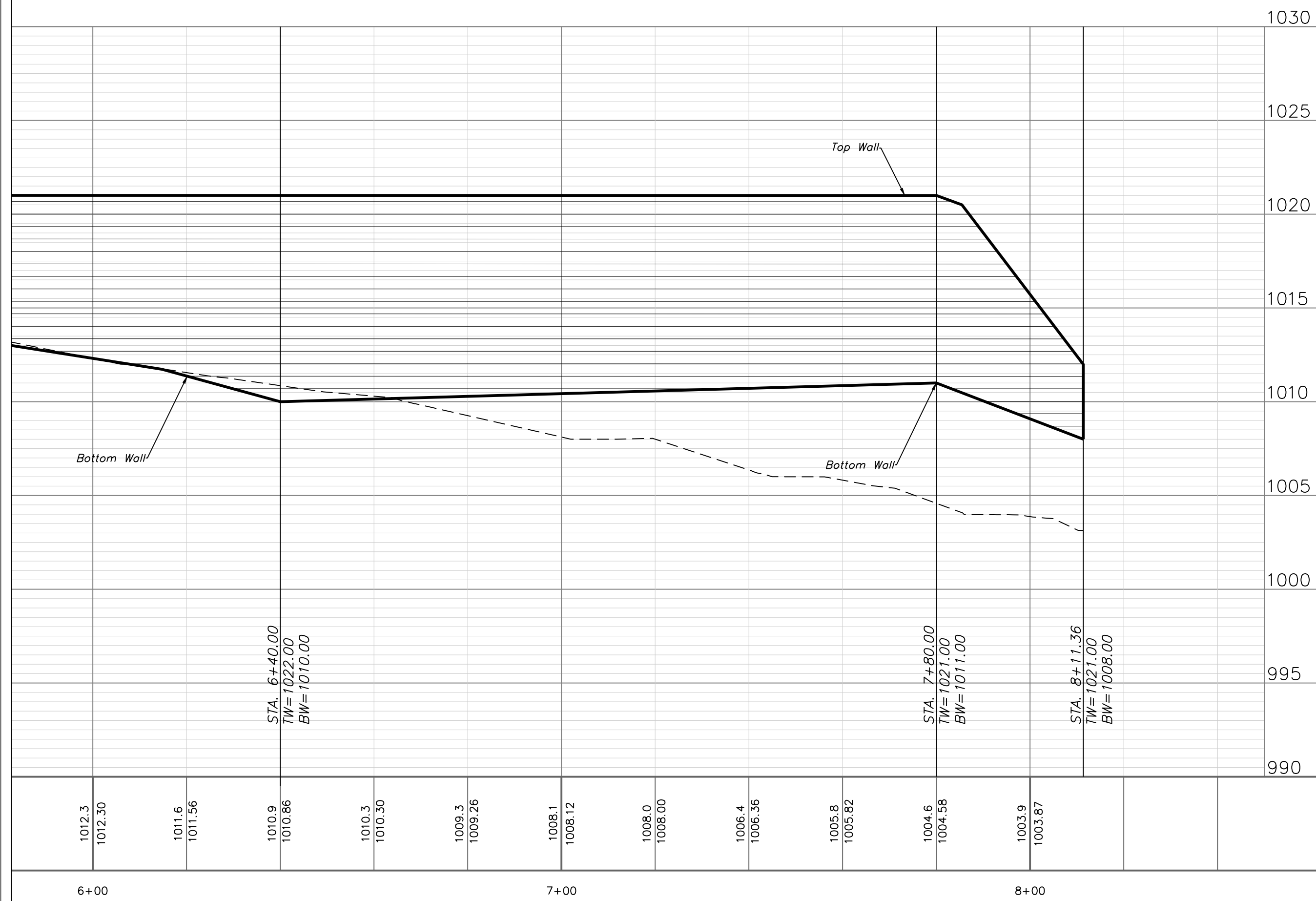
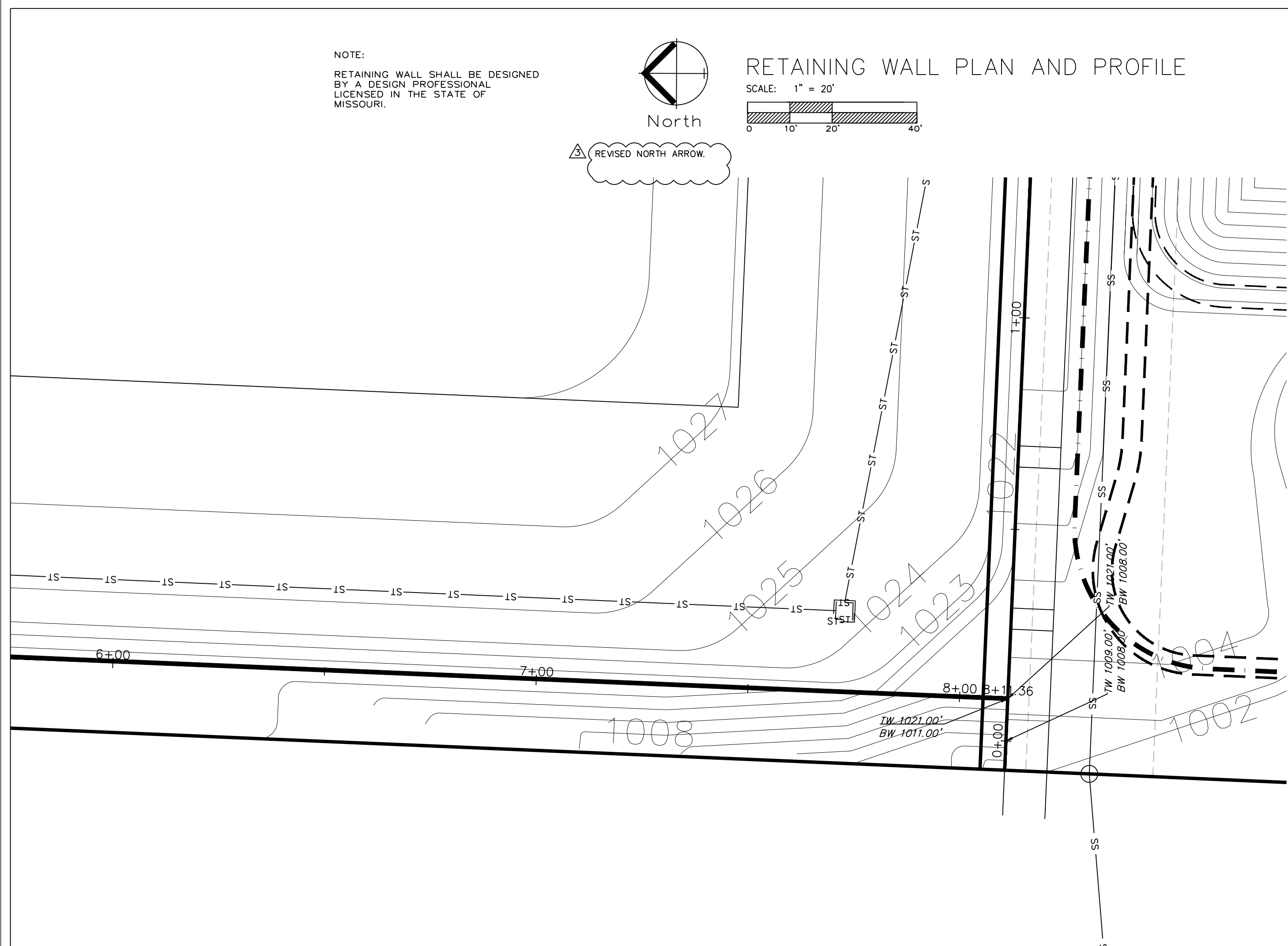
Project
MARKETPLACE
LSMO
Issue Date
November 6, 2024

Spot Elevations
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



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

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

Project: MARKETPLACE, LSMD
Issue Date: November 6, 2024

Spot Elevations
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

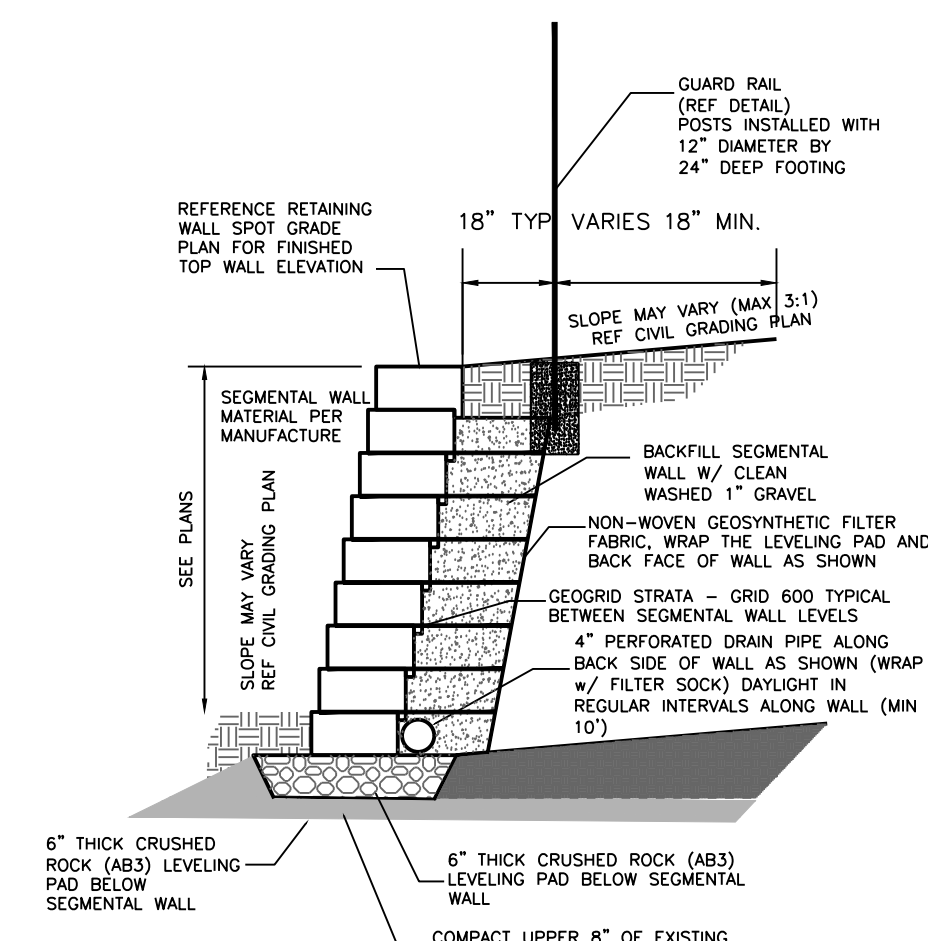
C. 221



North

SCALE: 1" = 20'

0 10' 20' 40'



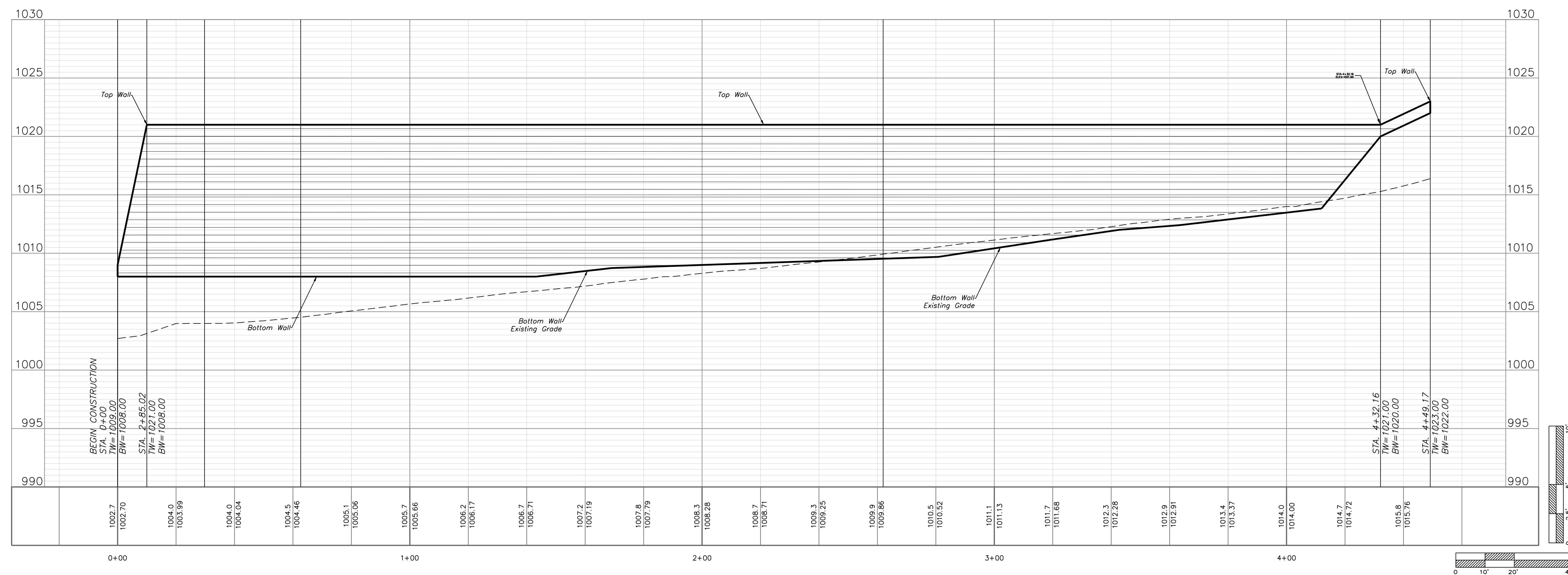
SEGMENTAL WALL SECTION
NOT TO SCALE
RETAINING WALL DESIGN DETAILS

The drawing consists of two views: a Plan View at the top and a Profile View at the bottom.

Plan View: Shows the top-down layout of the wall. A horizontal line represents the wall's length. A vertical line on the left indicates a "4' EXTENSION". A series of rectangular blocks along the wall represent the "TOP OF SEGMENTAL RETAINING WALL". A dimension line indicates a spacing of "ADDED 4' GUARD RAIL FENCE @ 90° FROM MAIN FENCE LINE". A callout points to the wall material: "1.5\" GALV. SQ. T.S. GUARDRAIL W/ 1.5\" T.S. HORIZONTALS @ 19\" O.C. MAX. TYP."

Profile View: Shows the cross-section of the wall. The wall is depicted as a grid of rectangular blocks. A dimension line indicates a height of "9\" MAX.". A horizontal line at the top right is labeled "T.O. GUARD RAIL +3'-6\"". A horizontal line below it is labeled "T.O. CONC. +0'-0\"". A callout points to the wall face: "FACE OF SEGMENTAL RETAINING WALL". A dimension line indicates a width of "4' TYP." between two vertical lines.

GUARD RAIL DETAIL
NOT TO SCALE



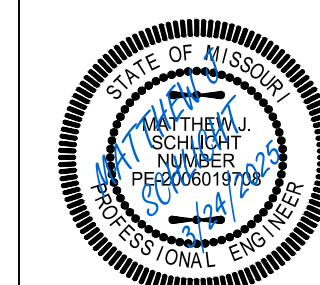
Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

Project: OLDHAM MARKETPLACE, LSMO

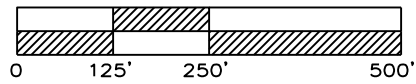
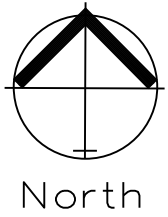
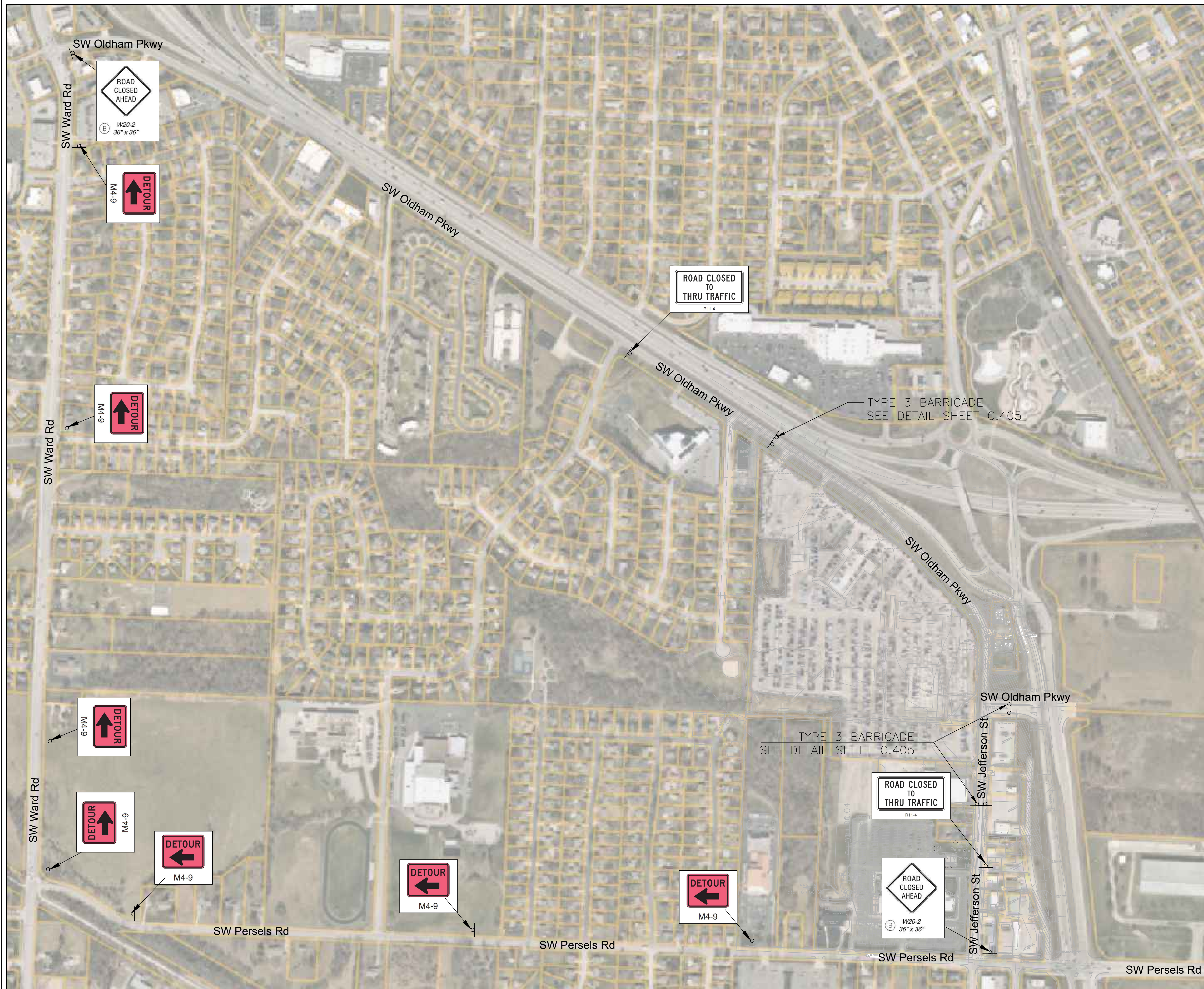
Issue Date: November 5, 2024

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



Matthew J. Schlich
MO PE 200601970
KS PE 19071
OK PE 25226
NE PE E-14335

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



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.

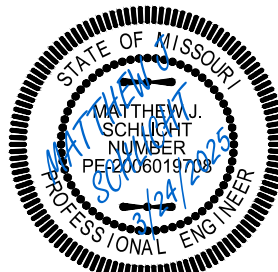


Professional Registration
Missouri
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Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

Project
MARKETPLACE
LSMO
Issue Date
November 6, 2024

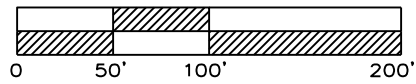
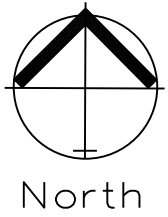
TRAFFIC CONTROL PLAN GENERAL LAYOUT
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



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

REVISIONS

- | |
|-----------------|
| REV. 12/10/2024 |
| REV. 1/2/2025 |
| REV. 2/6/2025 |
| REV. 3/5/2025 |
| REV. 3/24/2025 |

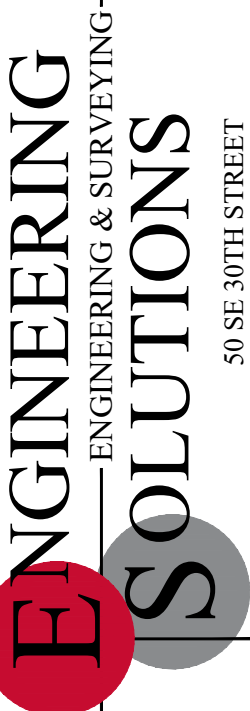


TRAFFIC CONTROL PLAN

SCALE: 1" = 100'

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.

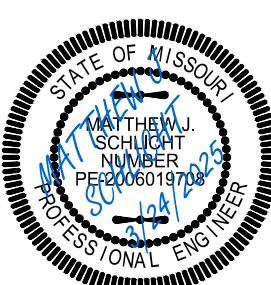


Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1685
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

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

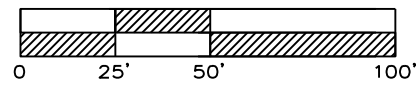
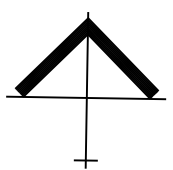
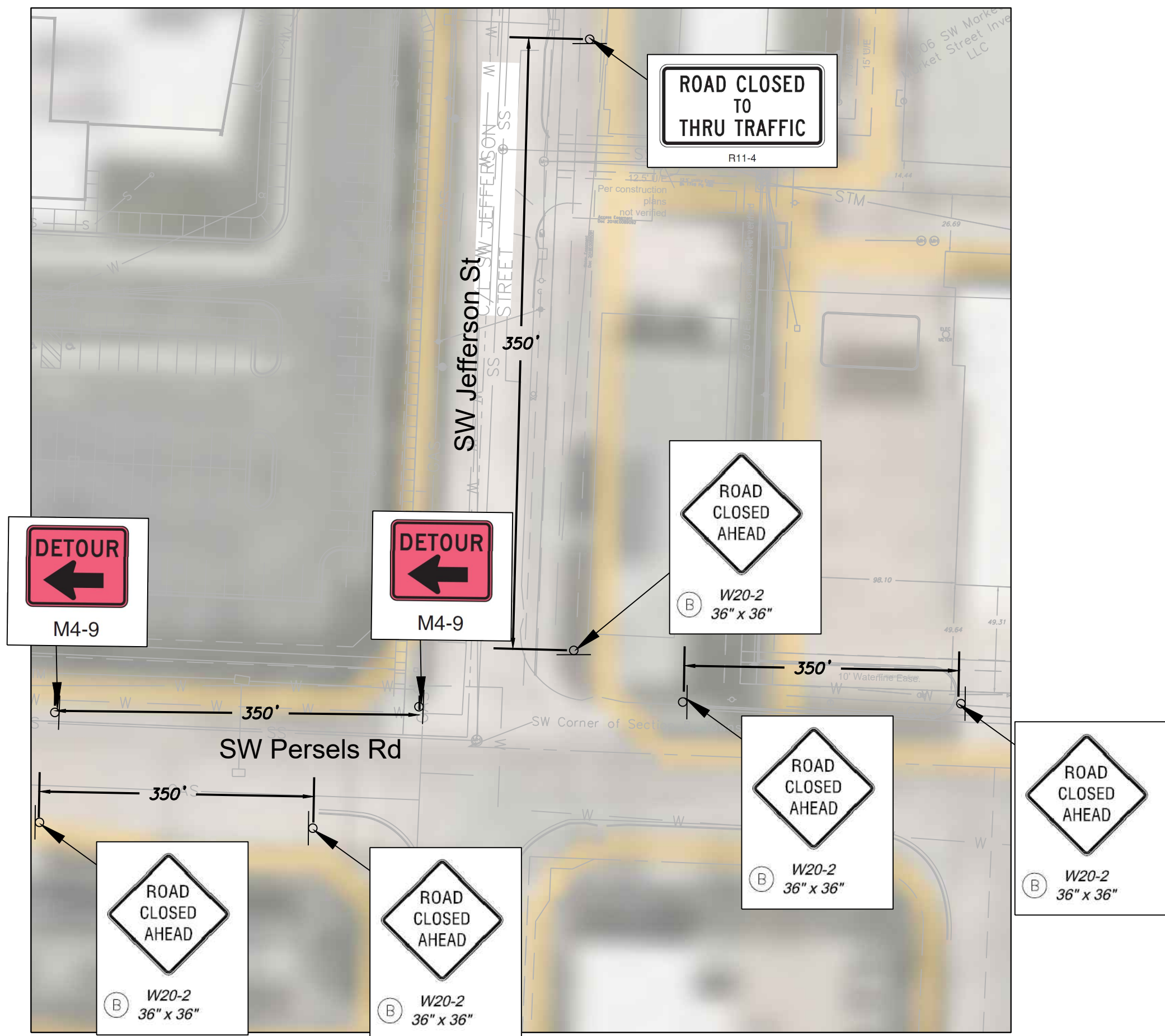
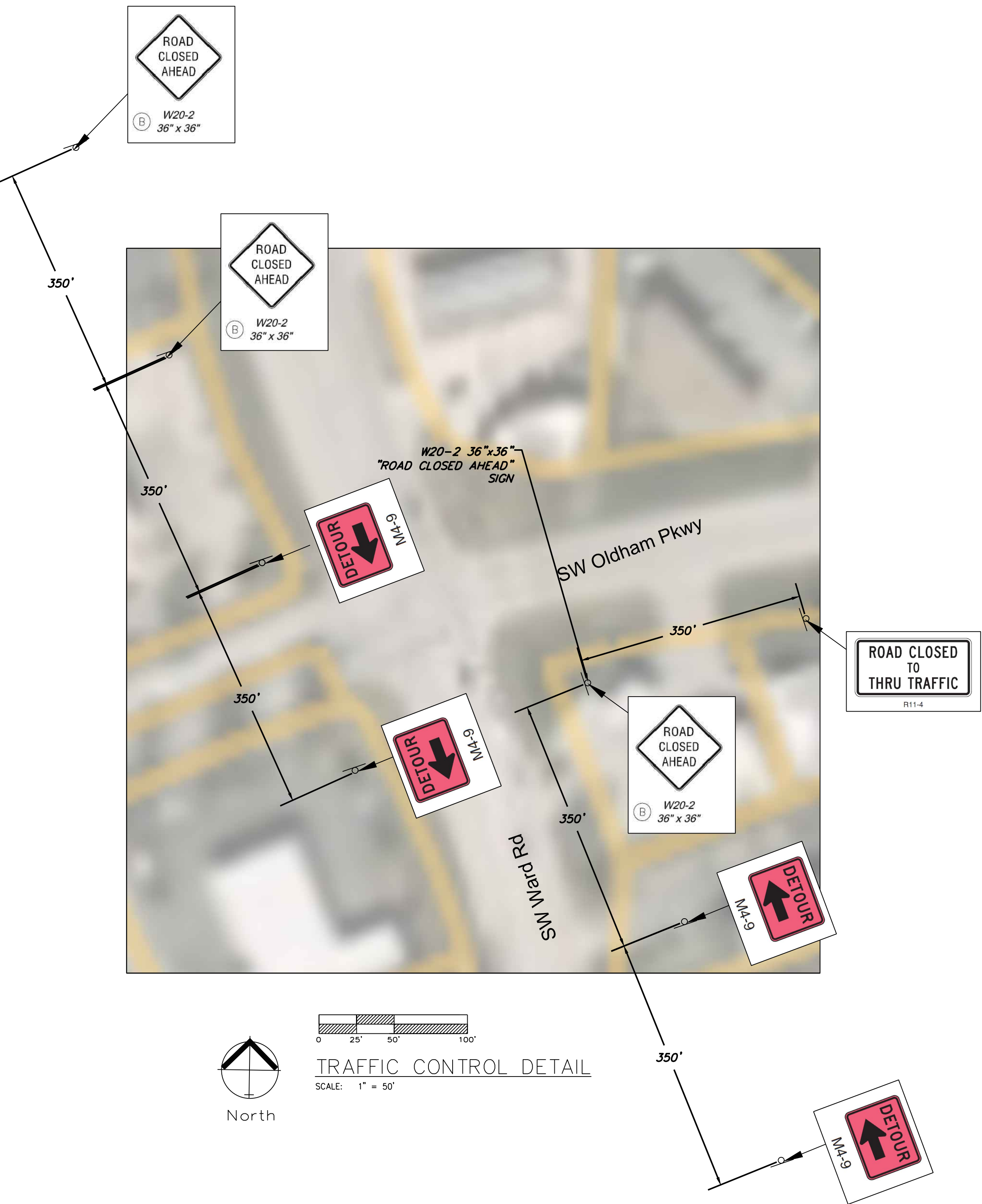
TRAFFIC CONTROL PLAN
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



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



TRAFFIC CONTROL DETAIL

SCALE: 1" = 50'

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

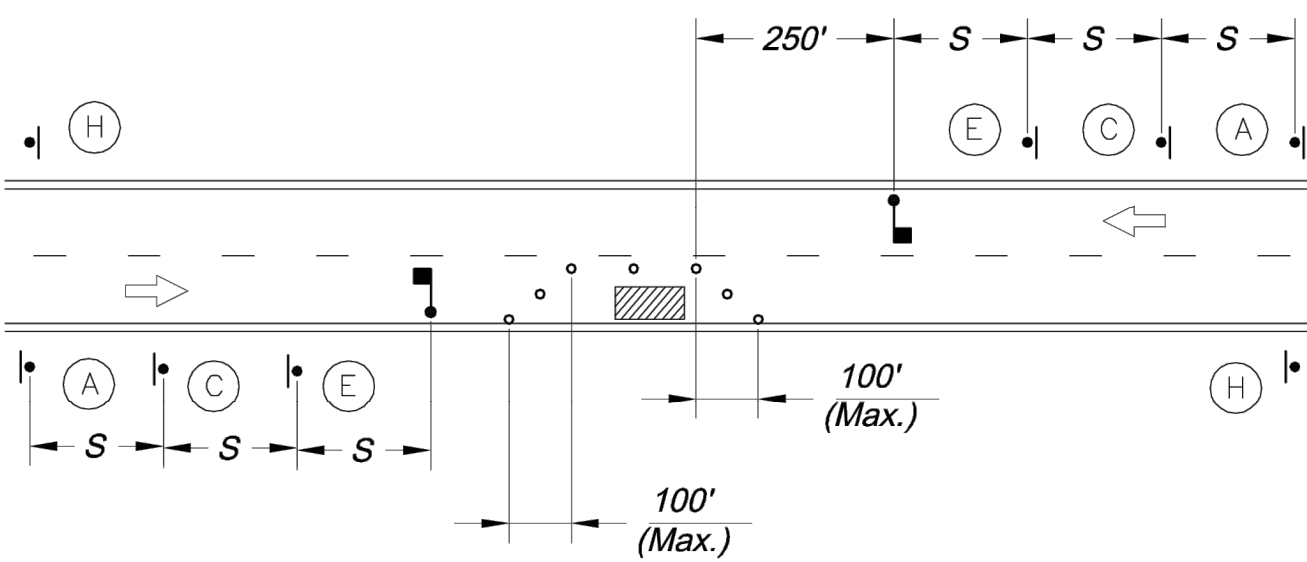
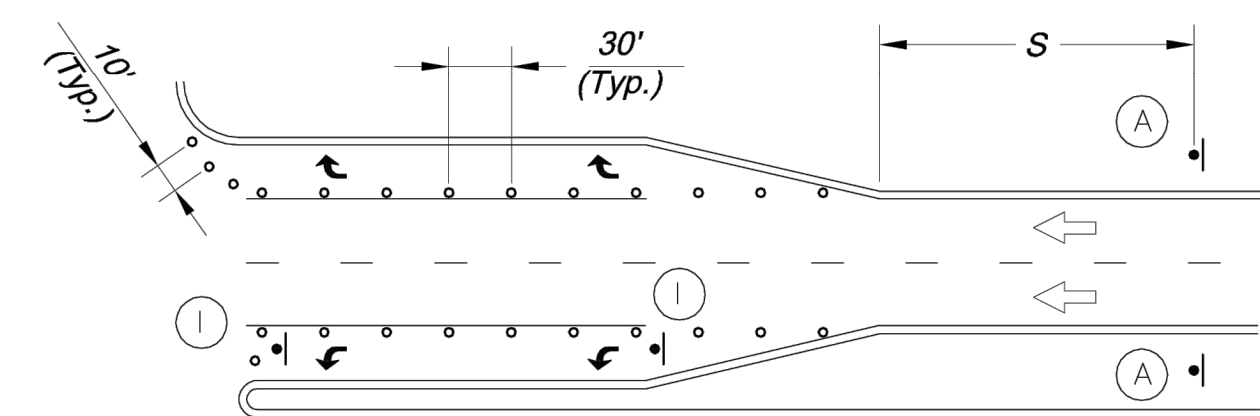


Figure 1 consists of two schematic diagrams, (a) and (b), illustrating the experimental setup. Diagram (a) is a top-down view of a 100' track. It shows a starting line (H) at the left end, followed by a 10' zone (I) marked with an asterisk (*). The track is divided into three 10' zones (G, D, A) by vertical lines. The distance between the starting line and the first 10' zone (I) is labeled B. The distance between the 10' zones (I, G, D, A) is labeled L. Diagram (b) is a side view of the track. It shows the track layout with a 10' zone (I) marked with an asterisk (*), a 10' zone (G), and a 10' zone (D). The distance between the 10' zones (I, G, D) is labeled L. The distance between the 10' zone (I) and the starting line (H) is labeled B. The track is divided into three 10' zones (G, D, A) by vertical lines. The distance between the starting line and the first 10' zone (I) is labeled B. The distance between the 10' zones (I, G, D, A) is labeled L.

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

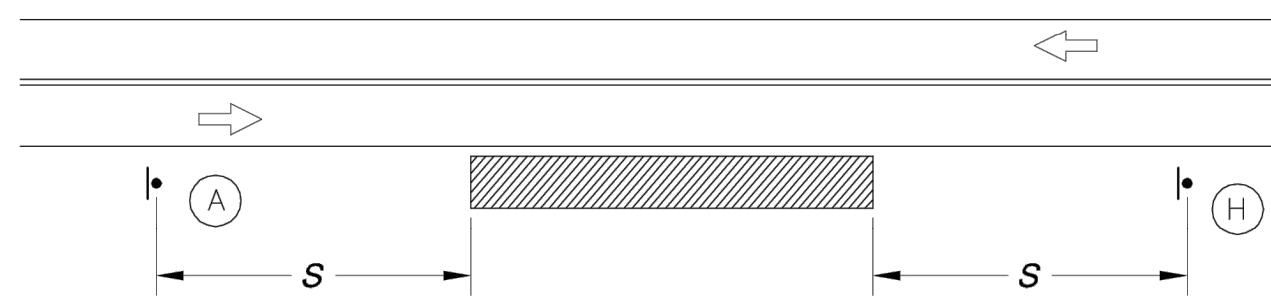


<i>Sign Spacing "S"</i>		<i>Taper Dimensions (Feet)</i>				
<i>Speed Limit (mph)</i>	<i>Spacing (Feet)</i>	<i>Speed Limit (mph)</i>	<i>Minimum Taper Length "L", per Lane Width "W"</i>			<i>Minimum Number of Channelizers</i>
25	100	25	10	11	12	6
30 - 35	250	30	150	165	180	7
≥ 40	350	35	205	225	245	8
		40	270	295	320	9
		45	450	495	540	13

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

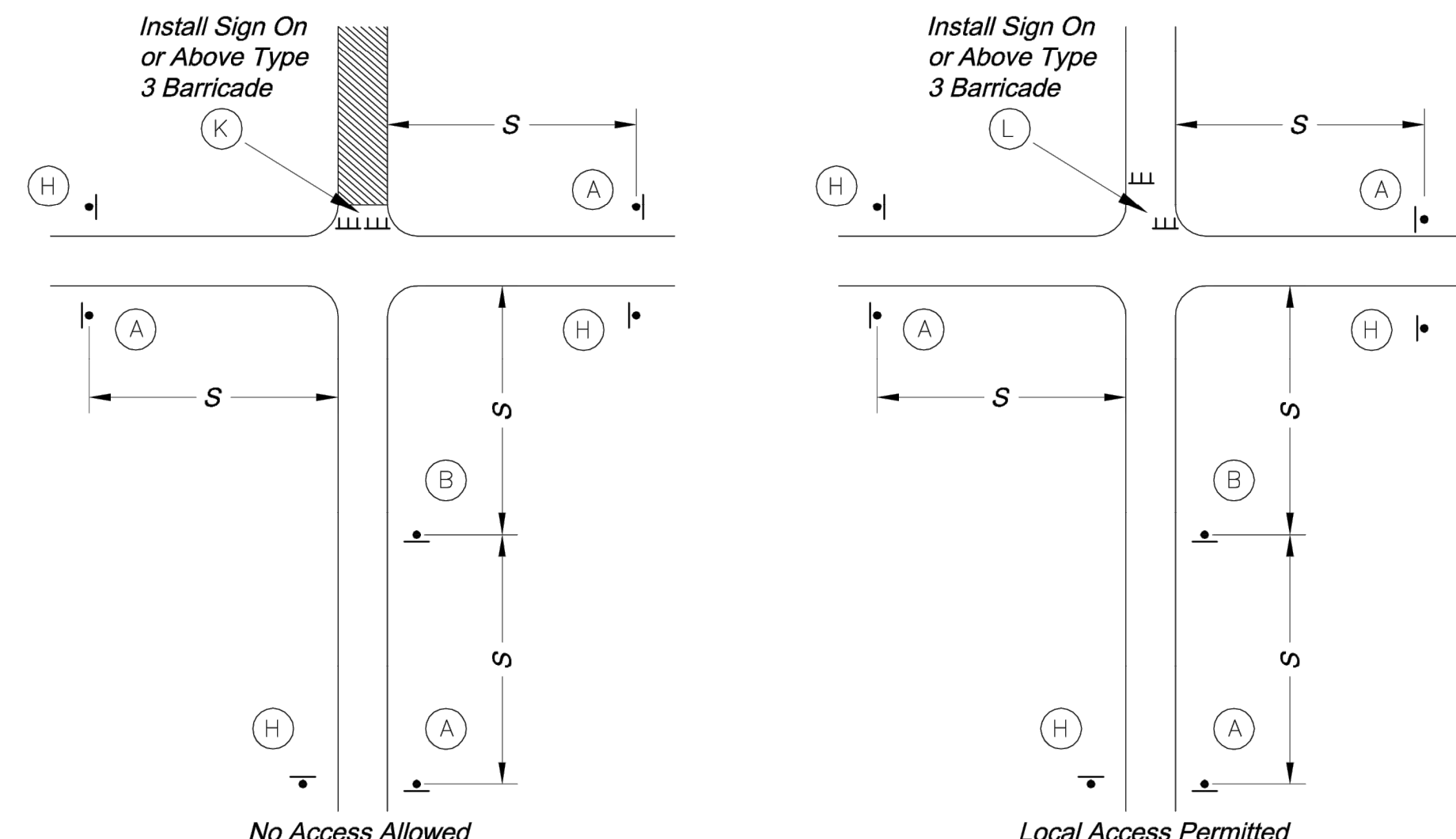
<i>Maximum Channelizer Spacing</i>		
<i>Speed Limit (mph)</i>	<i>Within Taper (Feet)</i>	<i>Outside Taper (Feet)</i>
25	25	50
30	30	60
35	35	70
40	40	80
45	45	90

W20-1 36" x 36"	W20-2 36" x 36"	W20-4 36" x 36"	W20-5R 36" x 36"	W20-7a 36" x 36"	W1-4L 36" x 36"
W4-2L 36" x 36"	G20-2 36" x 18"	R3-2 24" x 24"	R4-7a 24" x 30"	R11-2 48" x 30"	R11-4 60" x 30"

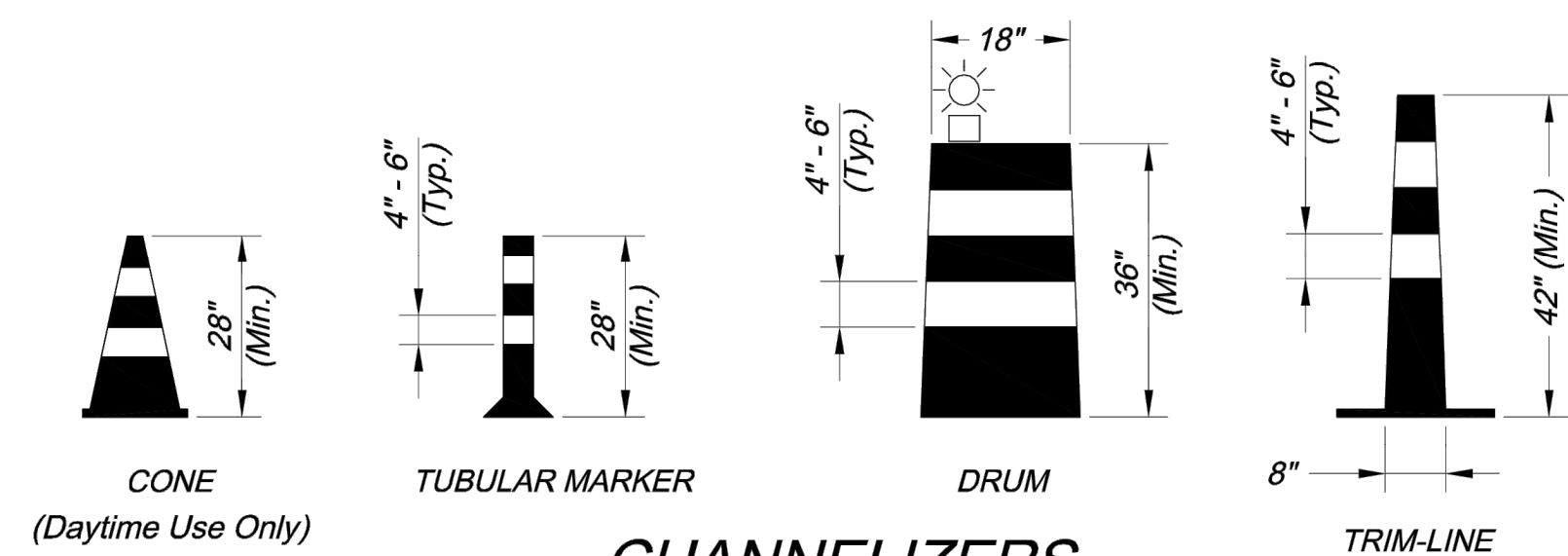


The diagram illustrates a center turn lane configuration. It shows a three-lane road with a center turn lane. A center turn lane sign (R3-9b) is placed in the center turn lane, and a center turn lane closure sign (R3-9b) is placed in the center turn lane. The diagram includes dimensions for the lane width (100'), the distance between the signs (S), and the distance from the signs to the center line (L). The center turn lane is shown with a dashed line and a center line. The center turn lane closure sign is shown with a red 'X' over the sign.

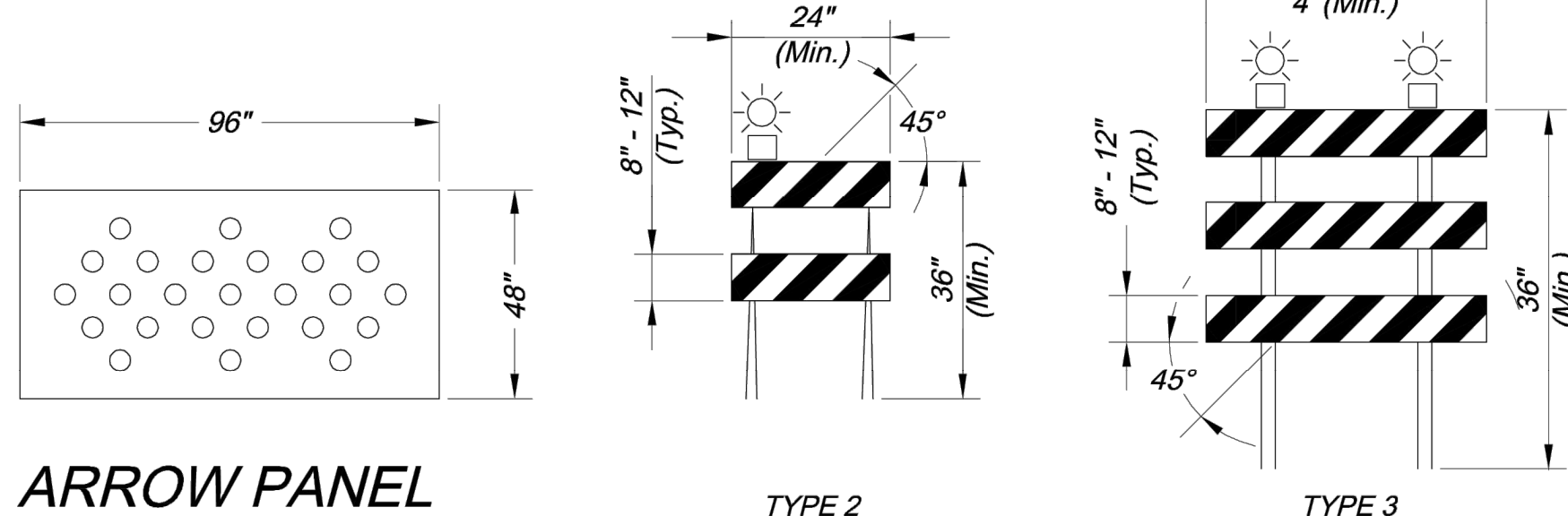
** Install Signs Every 200 Feet Throughout the Closed Lane or As Needed*



1. 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)*.
2. 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*.
3. 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.
4. 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.
5. Trim-lines are the City's preferred channelizing device. Cones may not be used at nighttime.
6. Traffic control devices not in use or not applicable shall be either covered or removed from the work area.
7. 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.
8. Access shall be maintained to all driveways and side streets unless noted otherwise on the plans.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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).
15. 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.
16. No traffic signal shall be altered or modified in any way without a plan approved by the City Traffic Engineer.
17. 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.
18. 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.
19. 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:
 - A) Employ another agency to correct deficiencies in traffic control devices and deduct the cost from the Contractor's pay estimate,
 - B) Stop the work until deficiencies are corrected,
 - C) Suspend all pay estimates until deficiencies are corrected, or
 - D) Place the Contractor in default.



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



TYPE 2

TRAFFIC CONTROL DETAILS

STANDARD DRAWING TC-1

Drawn By: JJW
Checked By: MP
Date: 12-10-2008
Project No.: X

x OF x

X

X

ENGINEERING SOLUTIONS — ENGINEERING & SURVEYING —

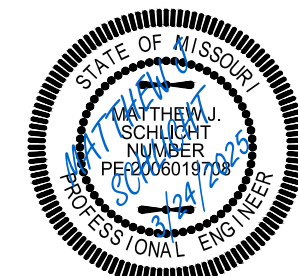
50 SE 30TH STREET
 LEE'S SUMMIT, MO 64082
 P(816) 623-9888 F(816)623-9849

Professional Registration
 Missouri
*Engineering 2005002186-D
 Surveying 2005003319-D*
 Kansas
*Engineering E-1695
 Surveying LS-218*
 Oklahoma
Engineering 6254
 Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

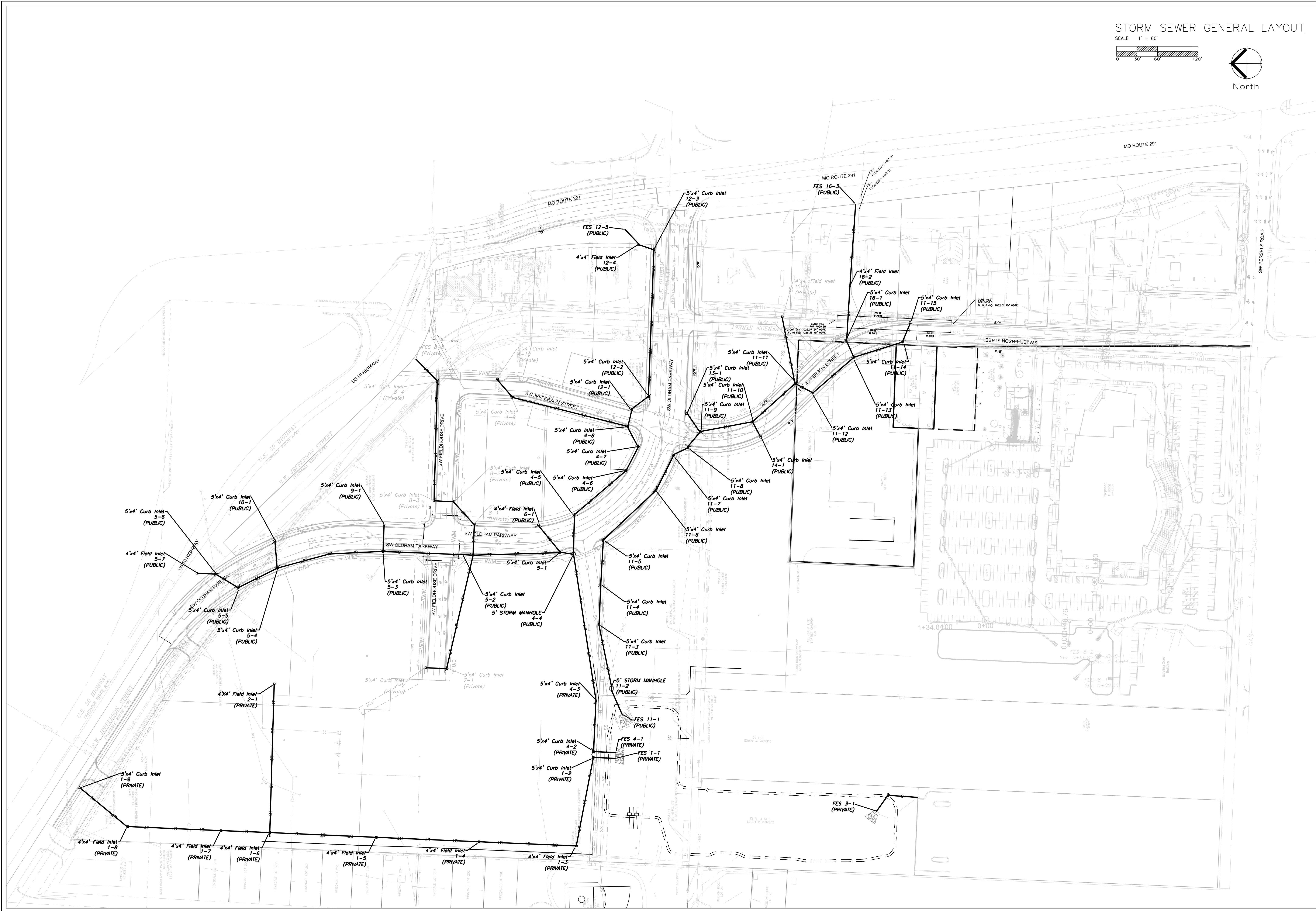
Project:
OLDHAM
MARKETPLACE,
LSMO

TRAFFIC CONTROL STANDARD DETAILS



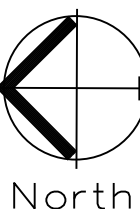
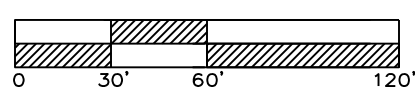
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

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



STORM SEWER GENERAL LAYOUT

SCALE: 1" = 60'

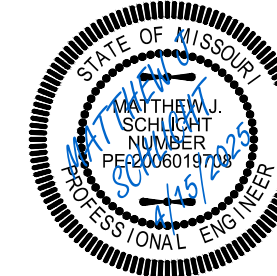


Professional Registration
Missouri
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Engineering E-1695
Surveying LS-218
Oklahoma
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Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

Project
MARKETPLACE
LSMO
Issue Date
November 6, 2024

Storm Sewer General Layout
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



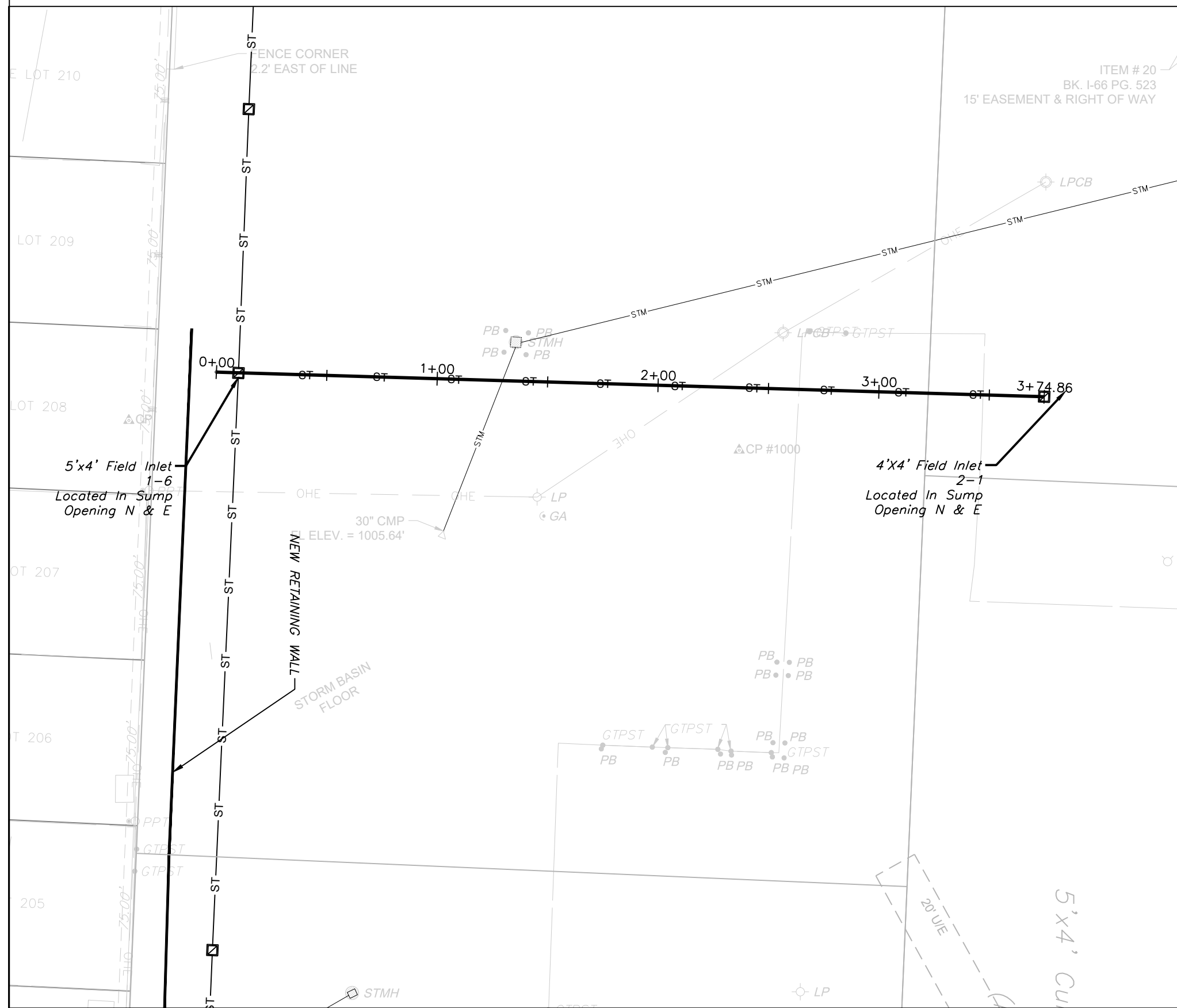
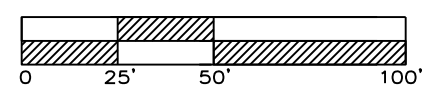
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

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

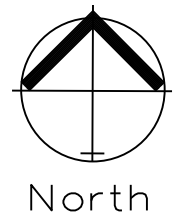
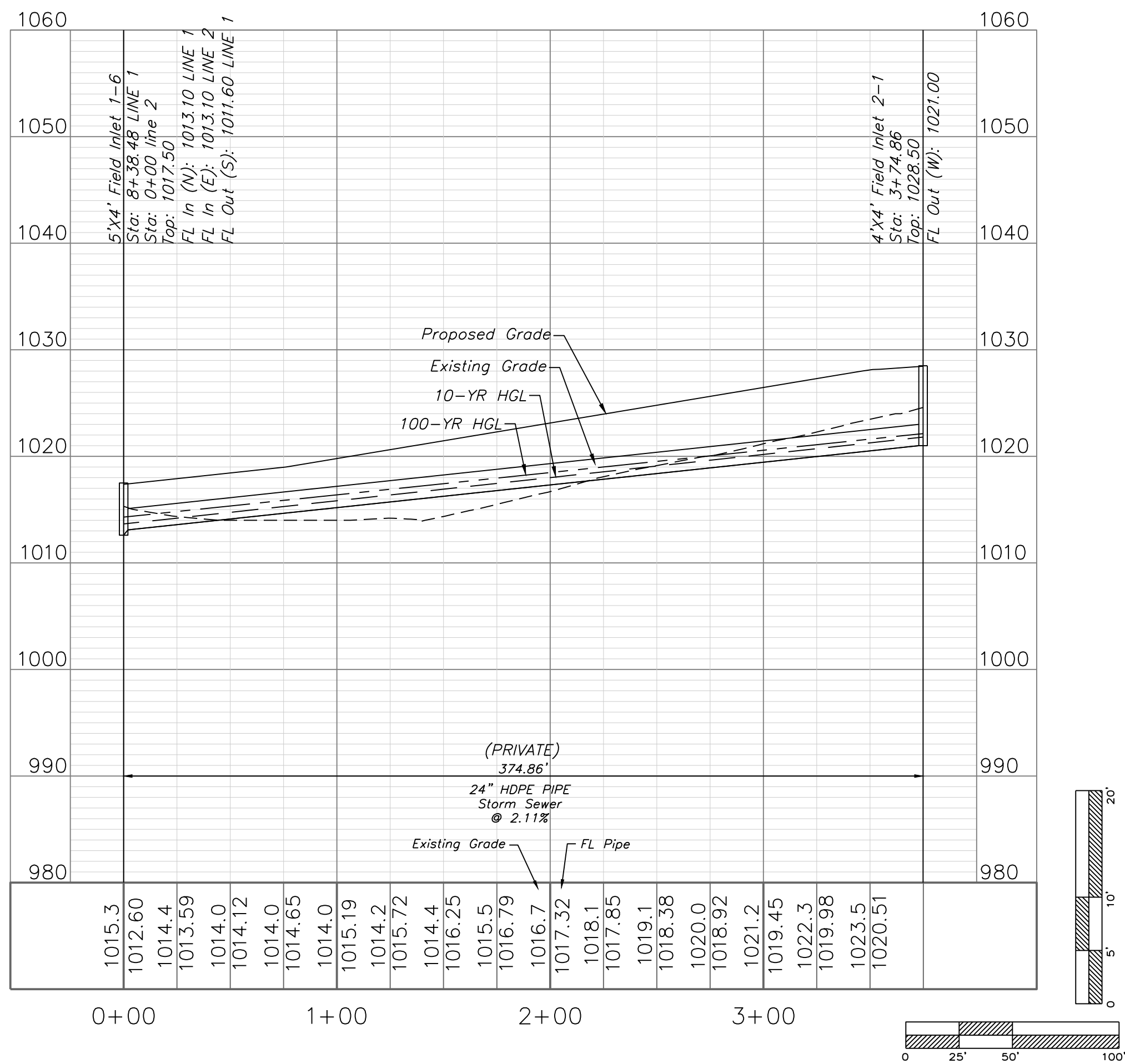


STORM SEWER PLAN AND PROFILE

SCALE: 1" = 50'

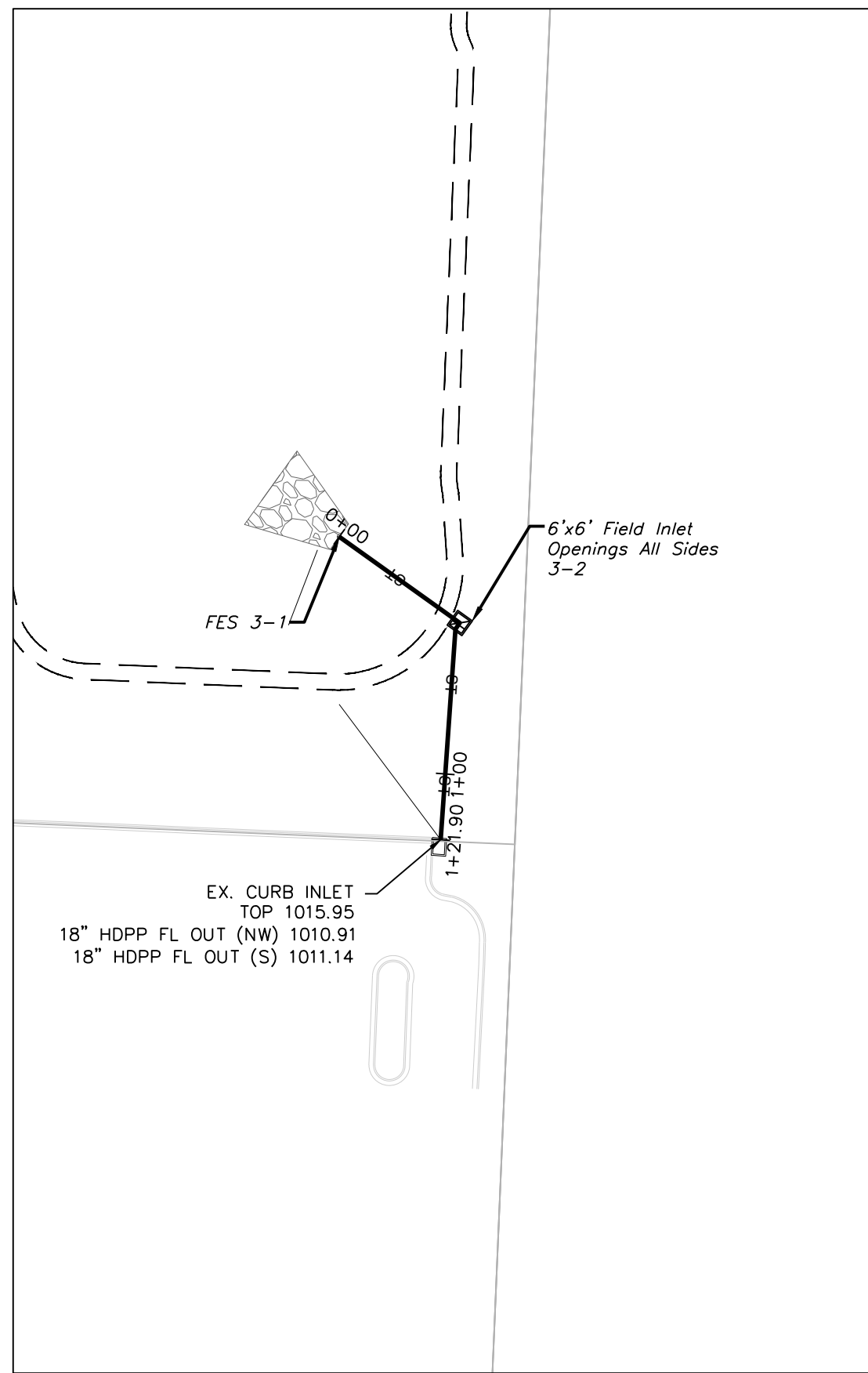
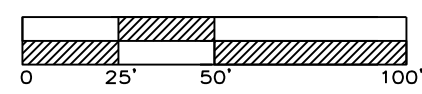


STORM LINE 2

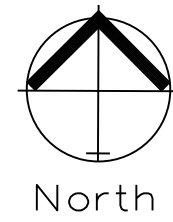
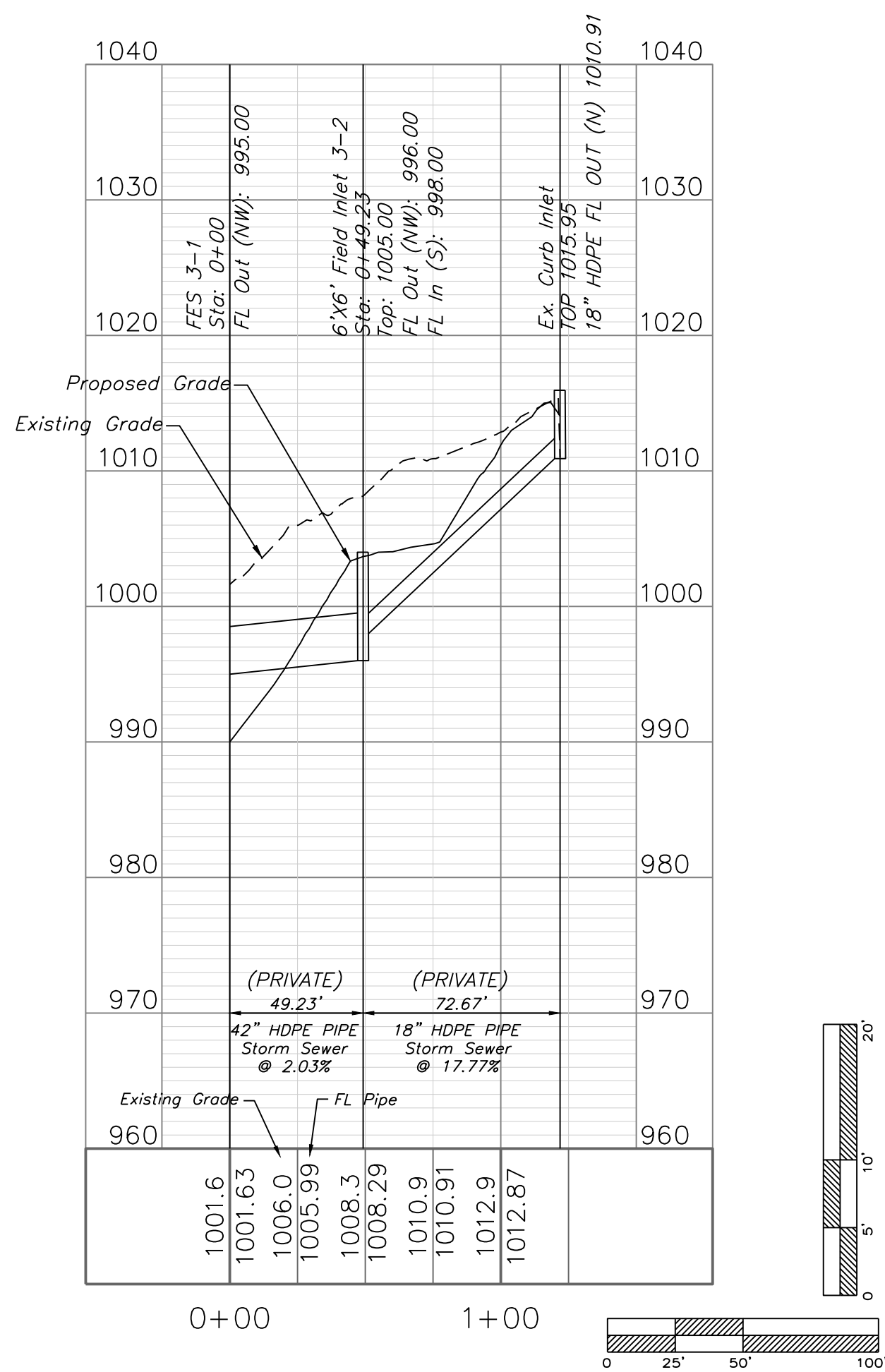


STORM SEWER PLAN AND PROFILE

SCALE: 1" = 50'

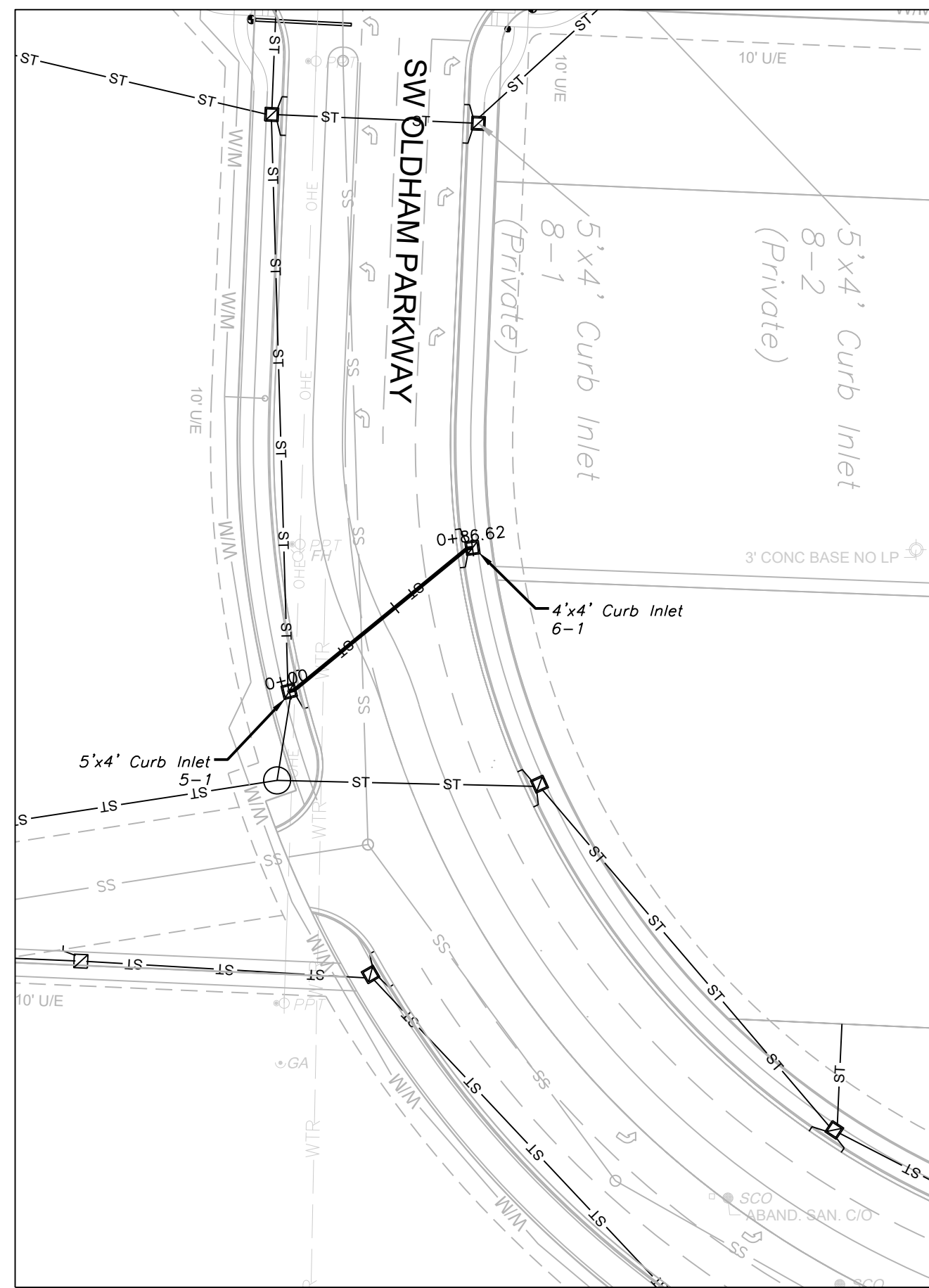
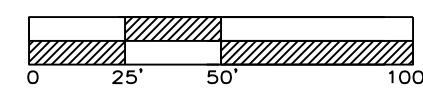


STORM LINE 3

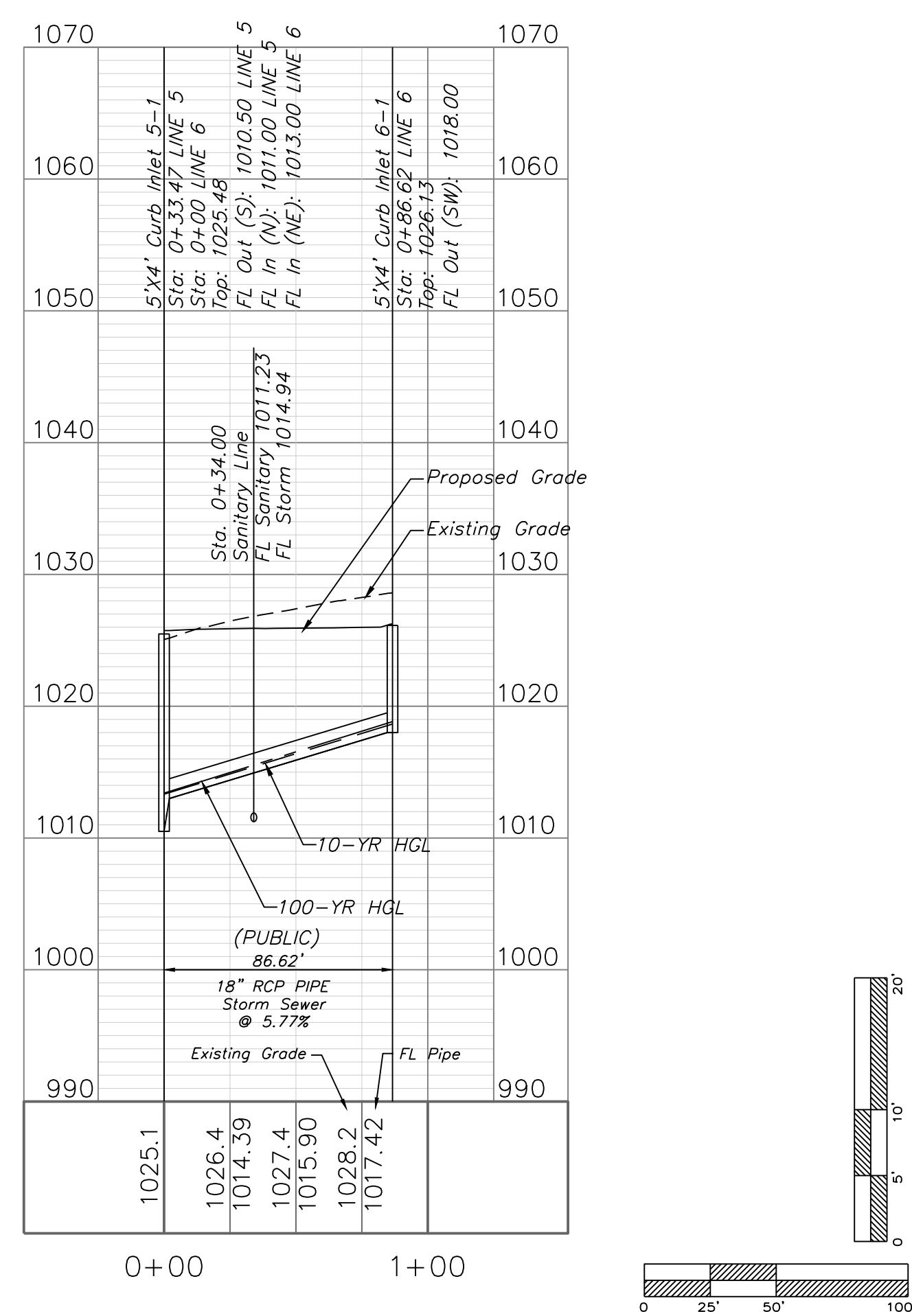


STORM SEWER PLAN AND PROFILE

SCALE: 1" = 50'



STORM LINE 6

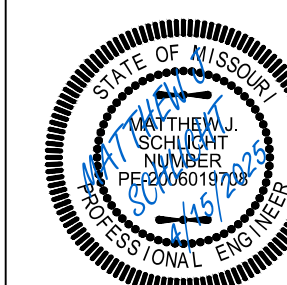


Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1685
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

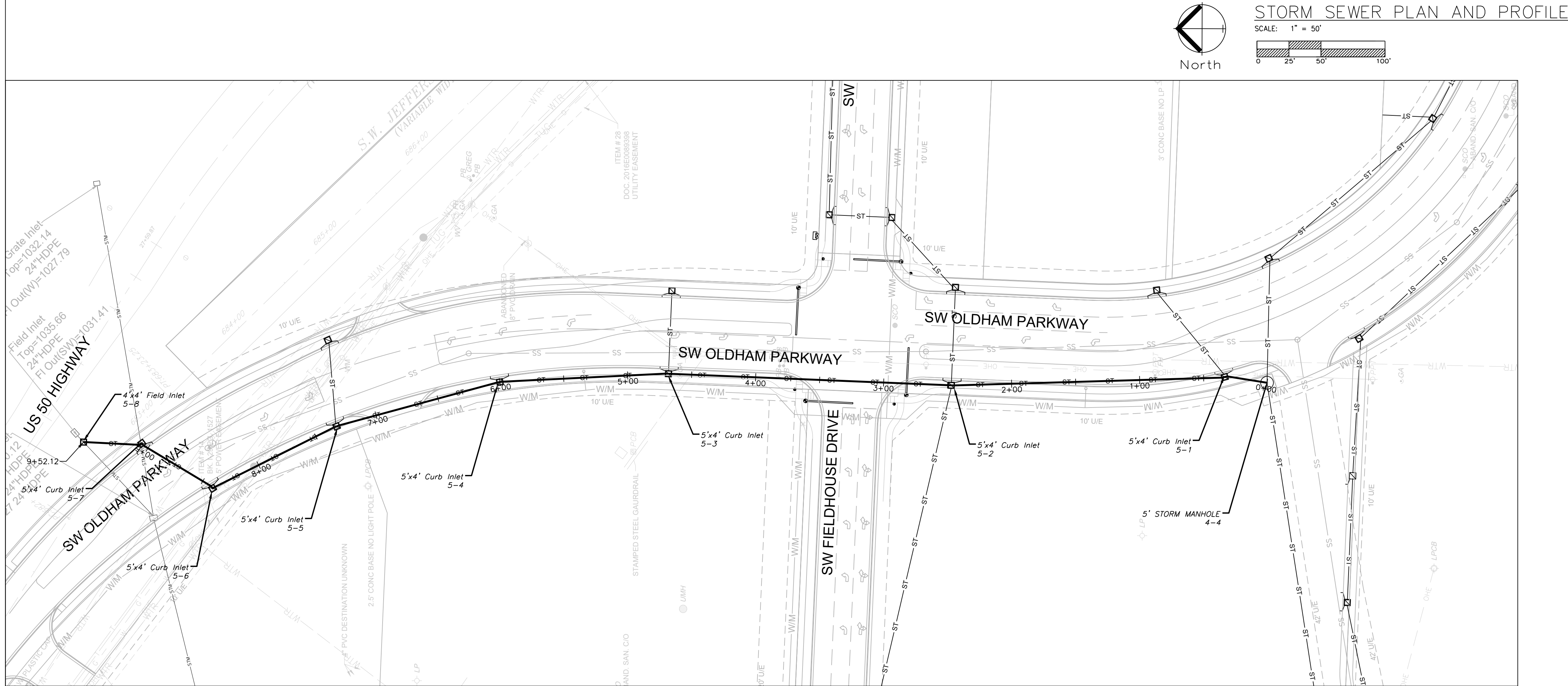
Project: Oldham Village
Marketplace
LSMO
Issue Date:
November 6, 2024

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

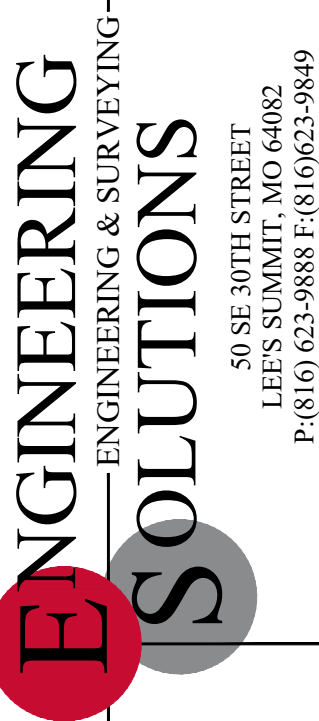
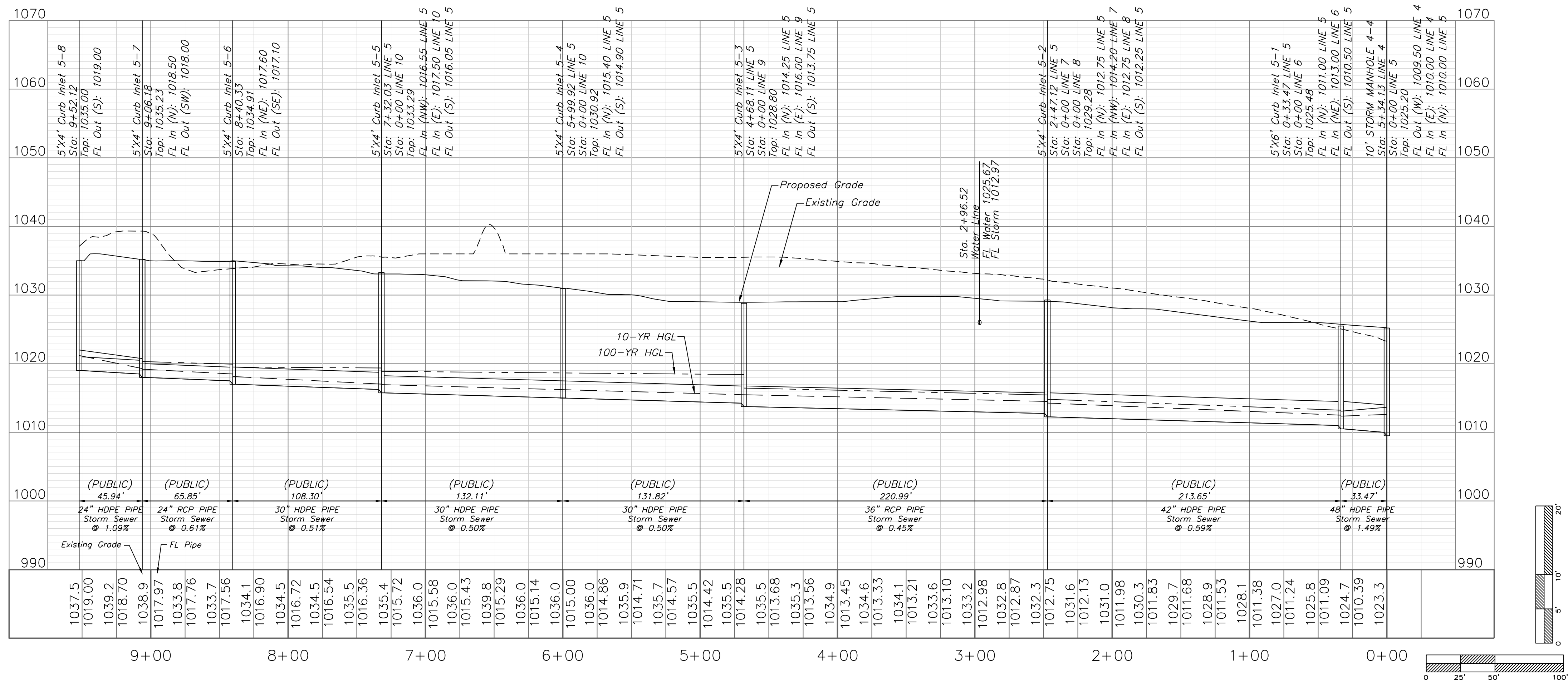


Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

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



STORM LINE 5

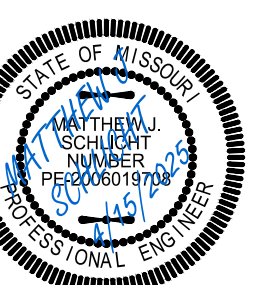


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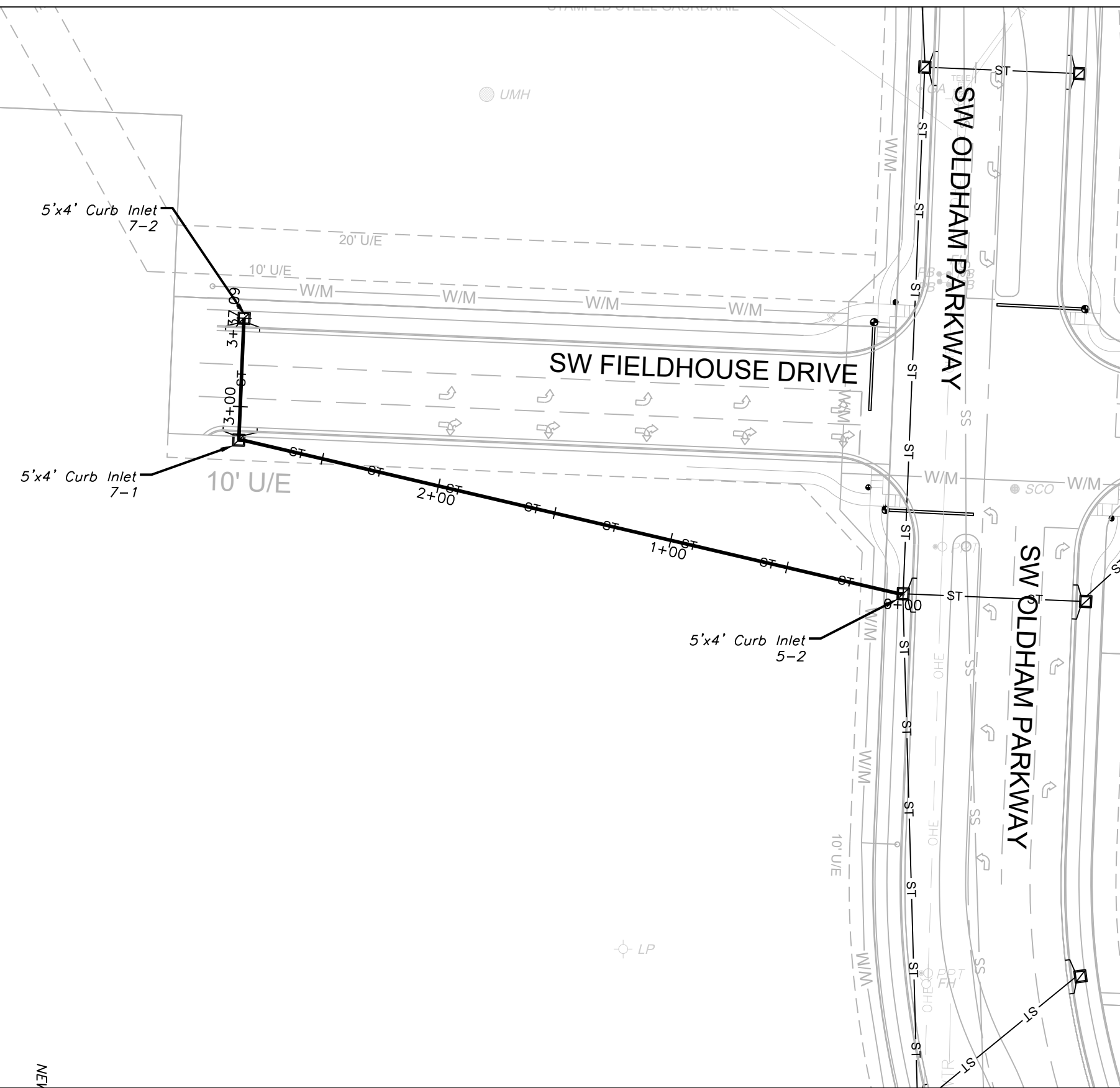
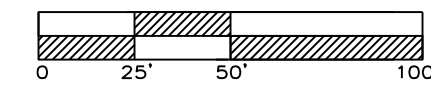
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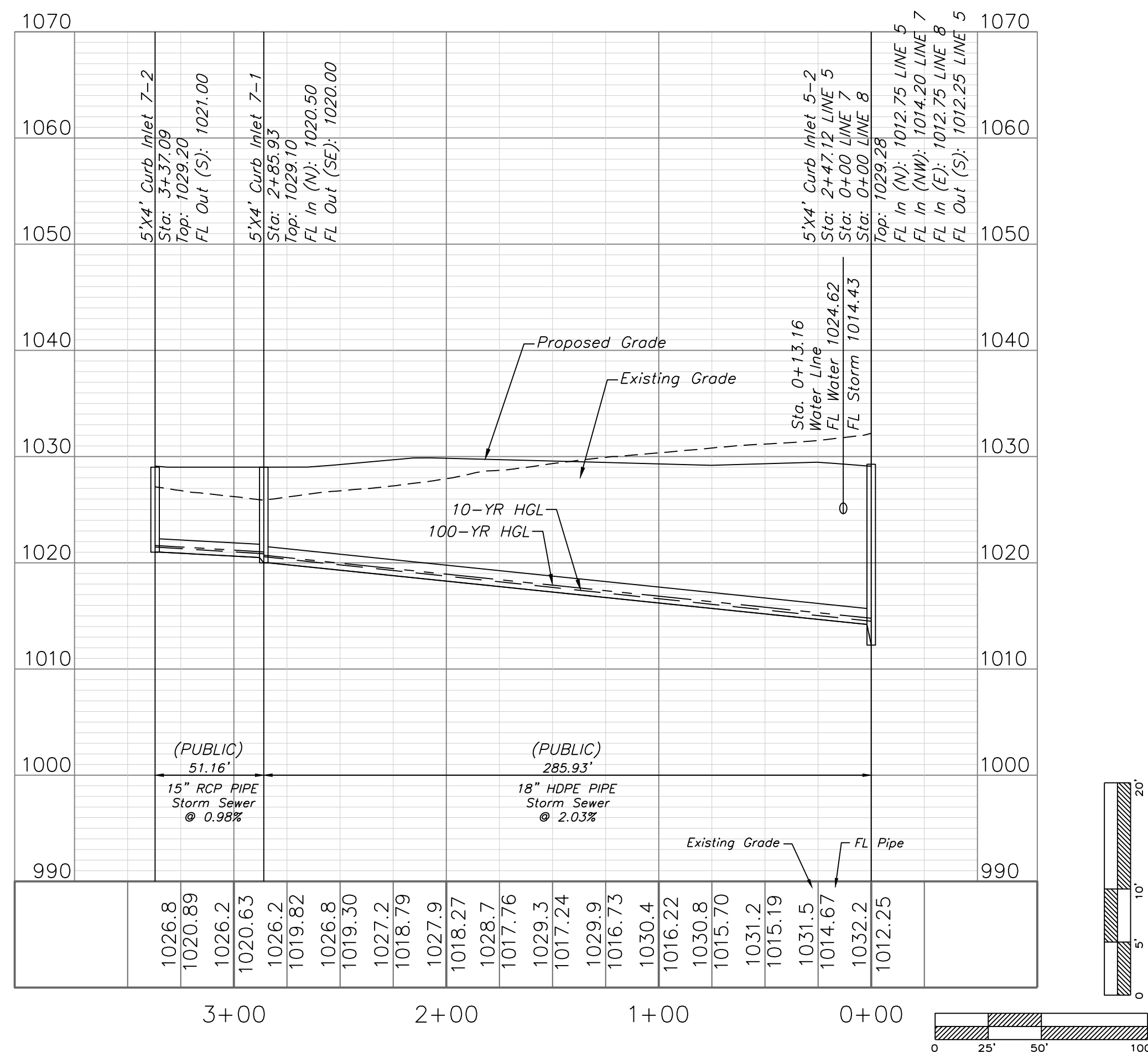


STORM SEWER PLAN AND PROFILE

SCALE: 1" = 50'

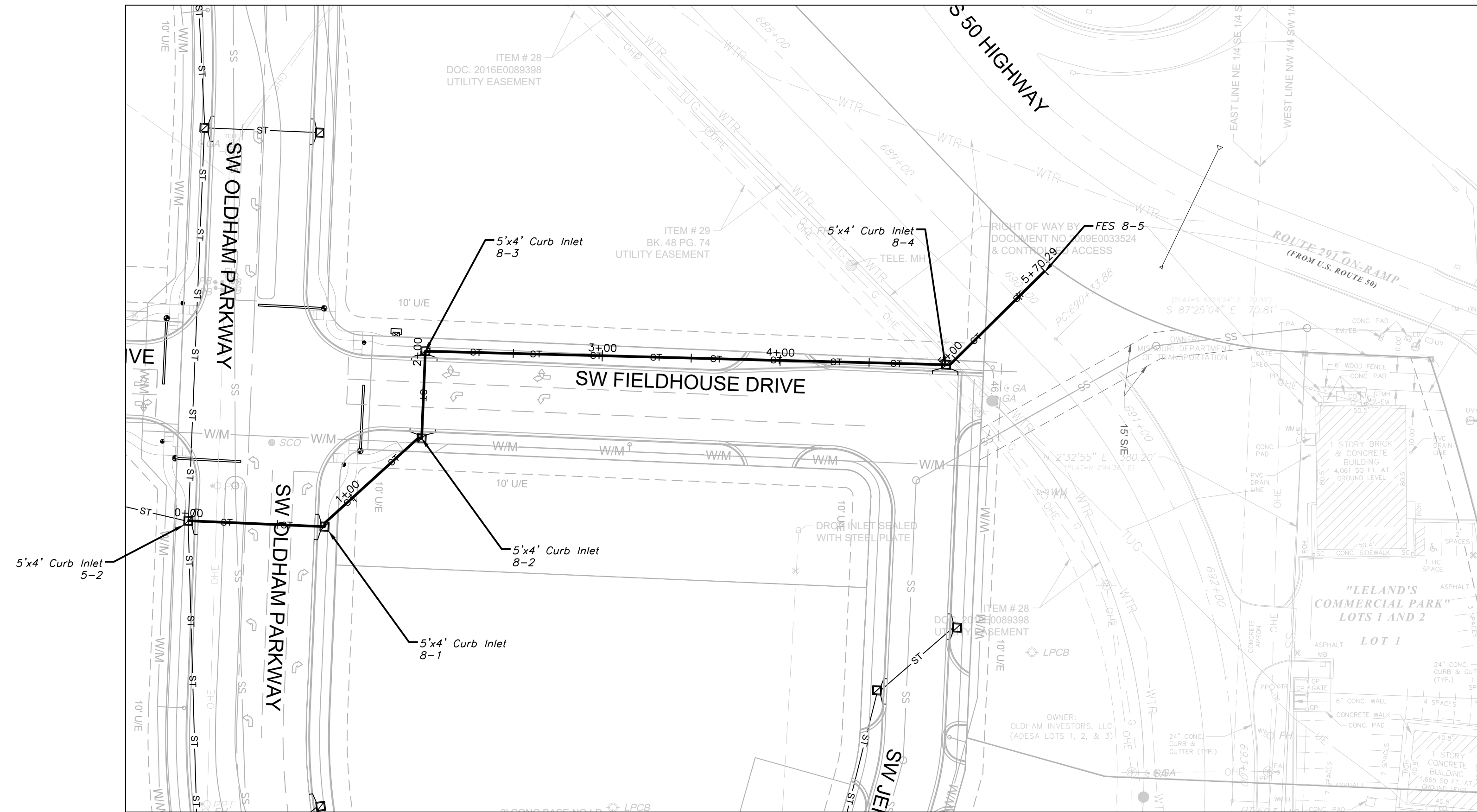
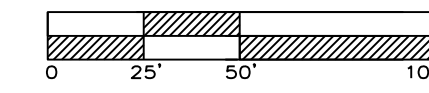


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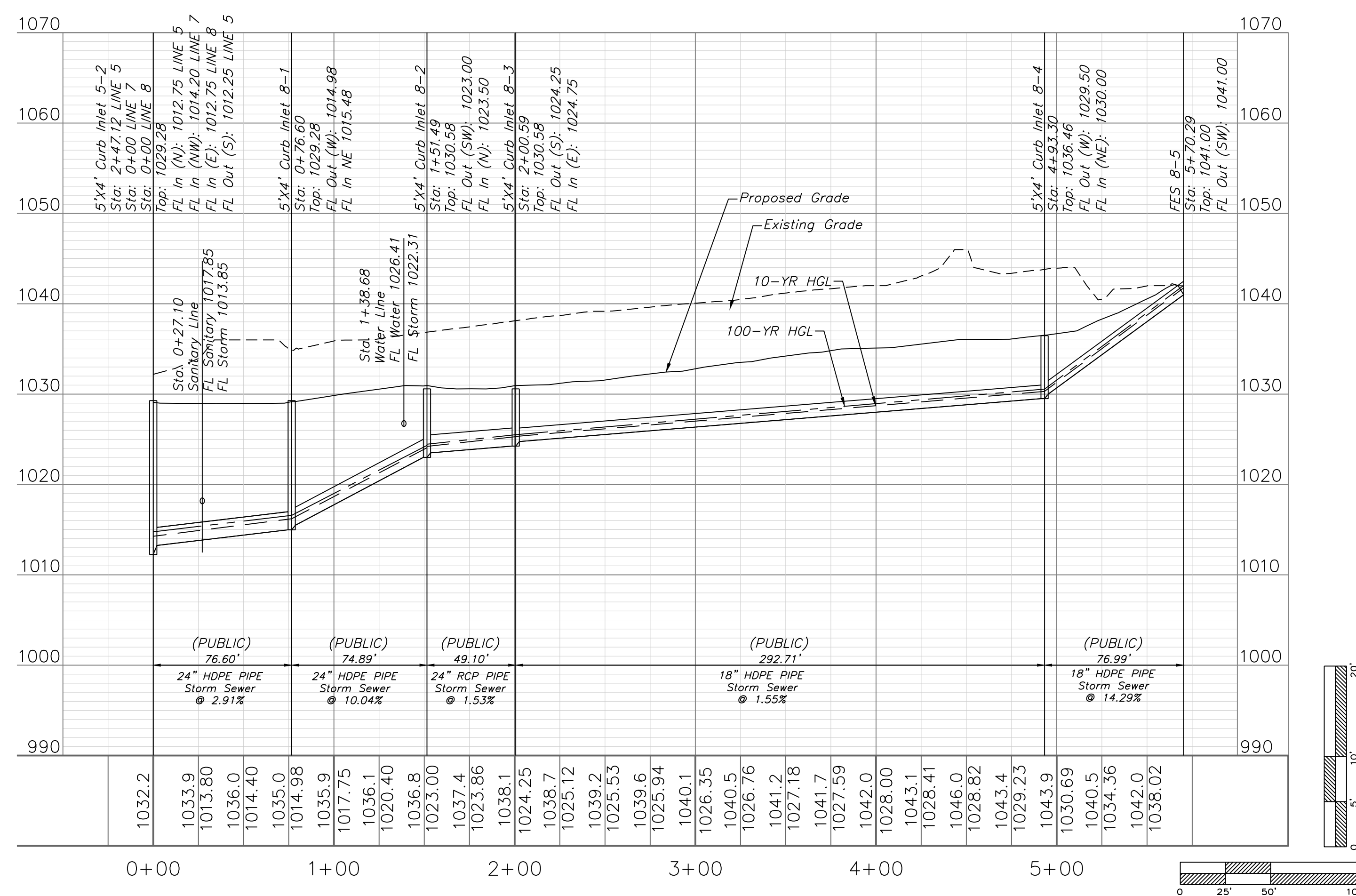


STORM SEWER PLAN AND PROFILE

SCALE: 1" = 50'



STORM LINE 8

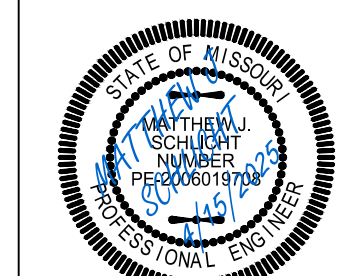


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Oldham Village
Lee's Summit, Jackson County, Missouri

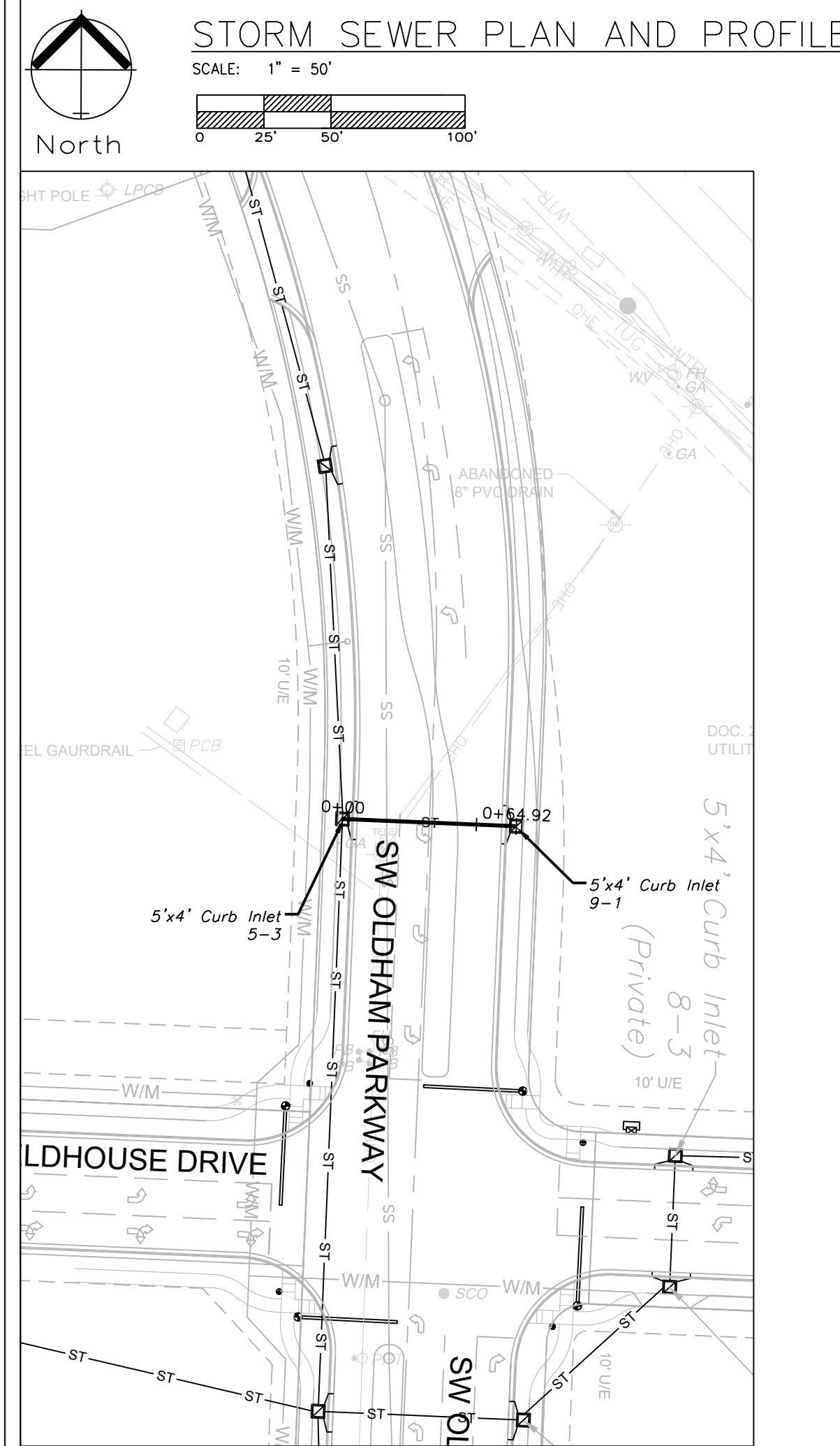
Project
MARKETPLACE
LSMO
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Storm Sewer Plan and Profile
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri

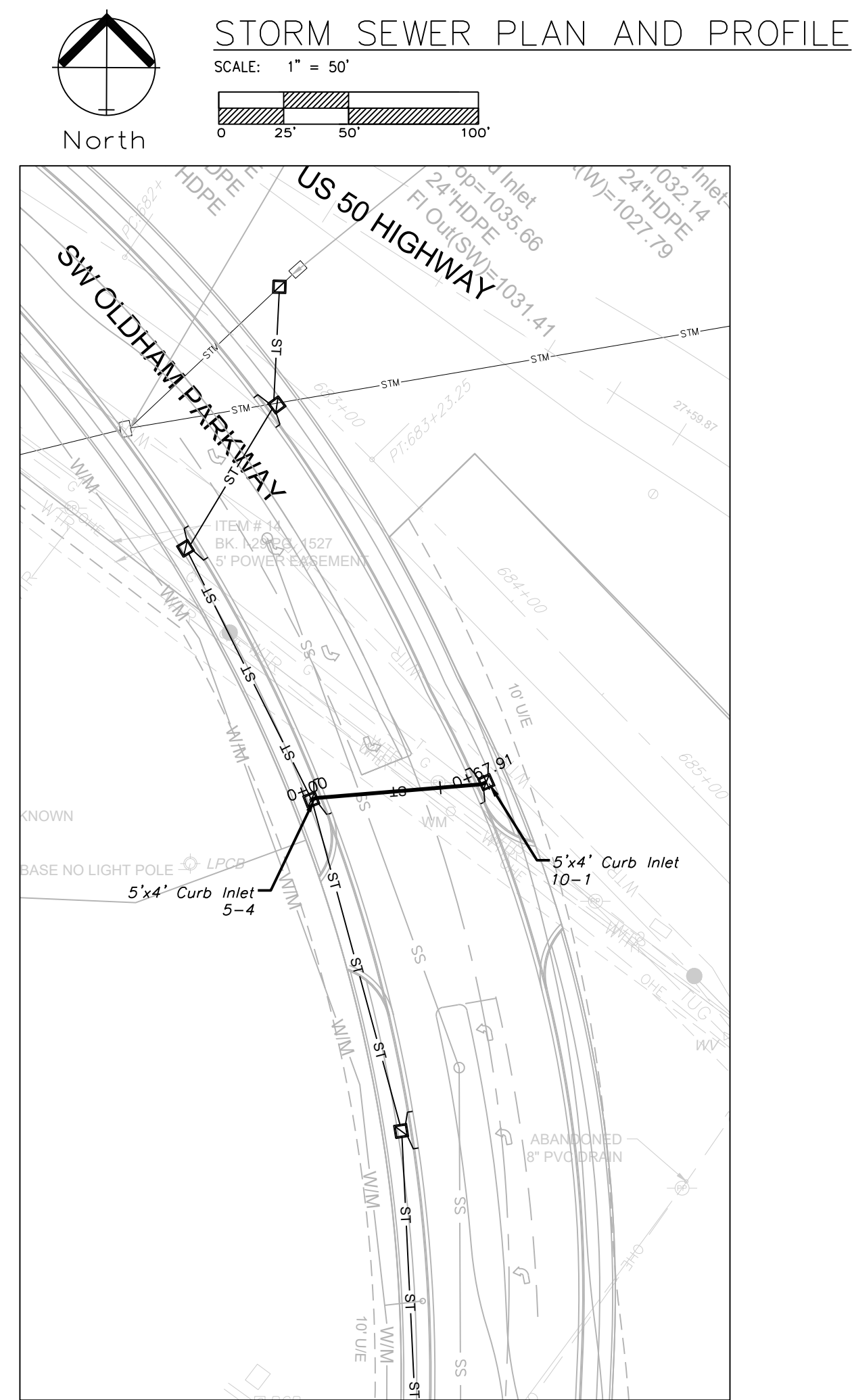
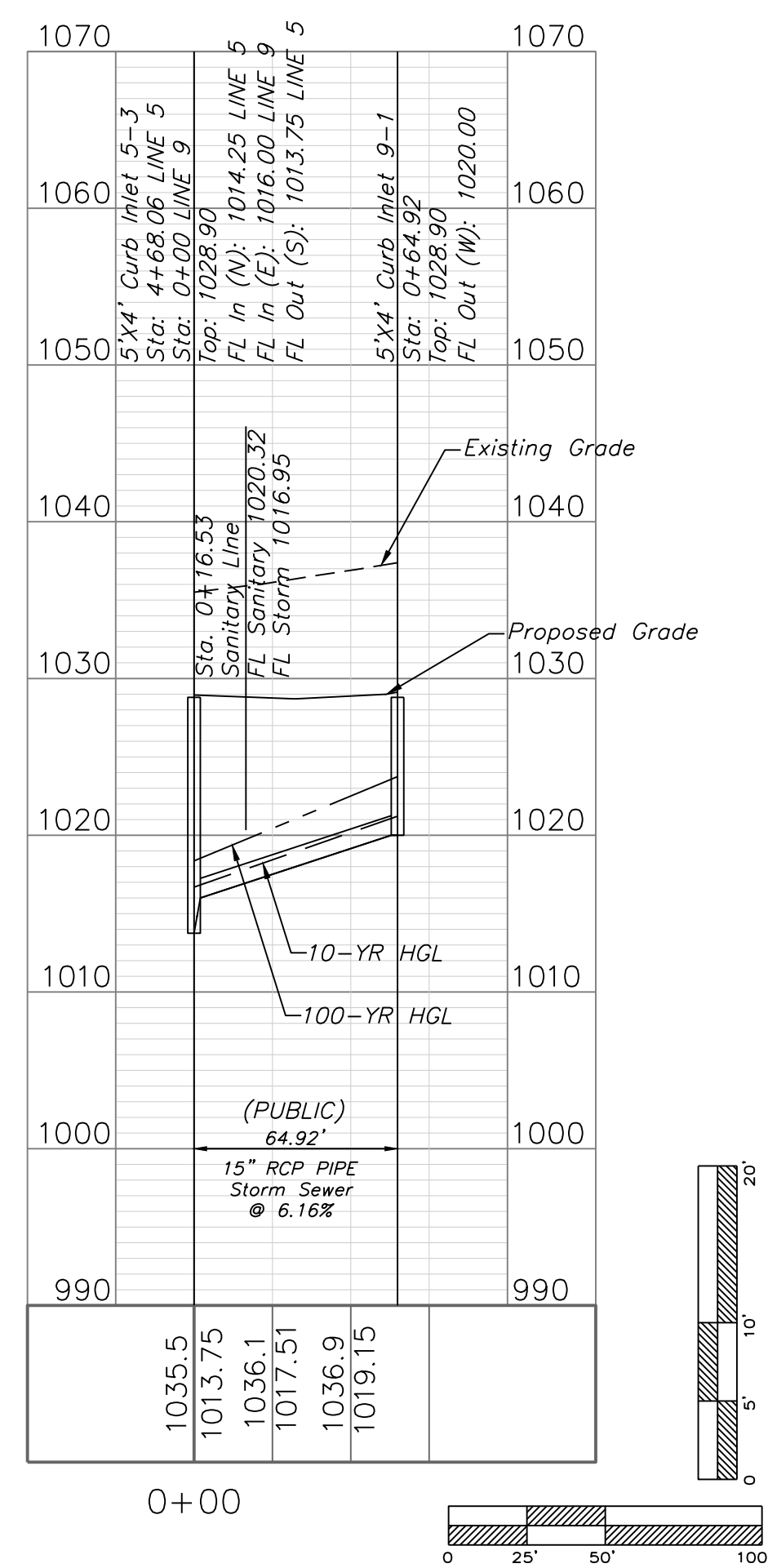


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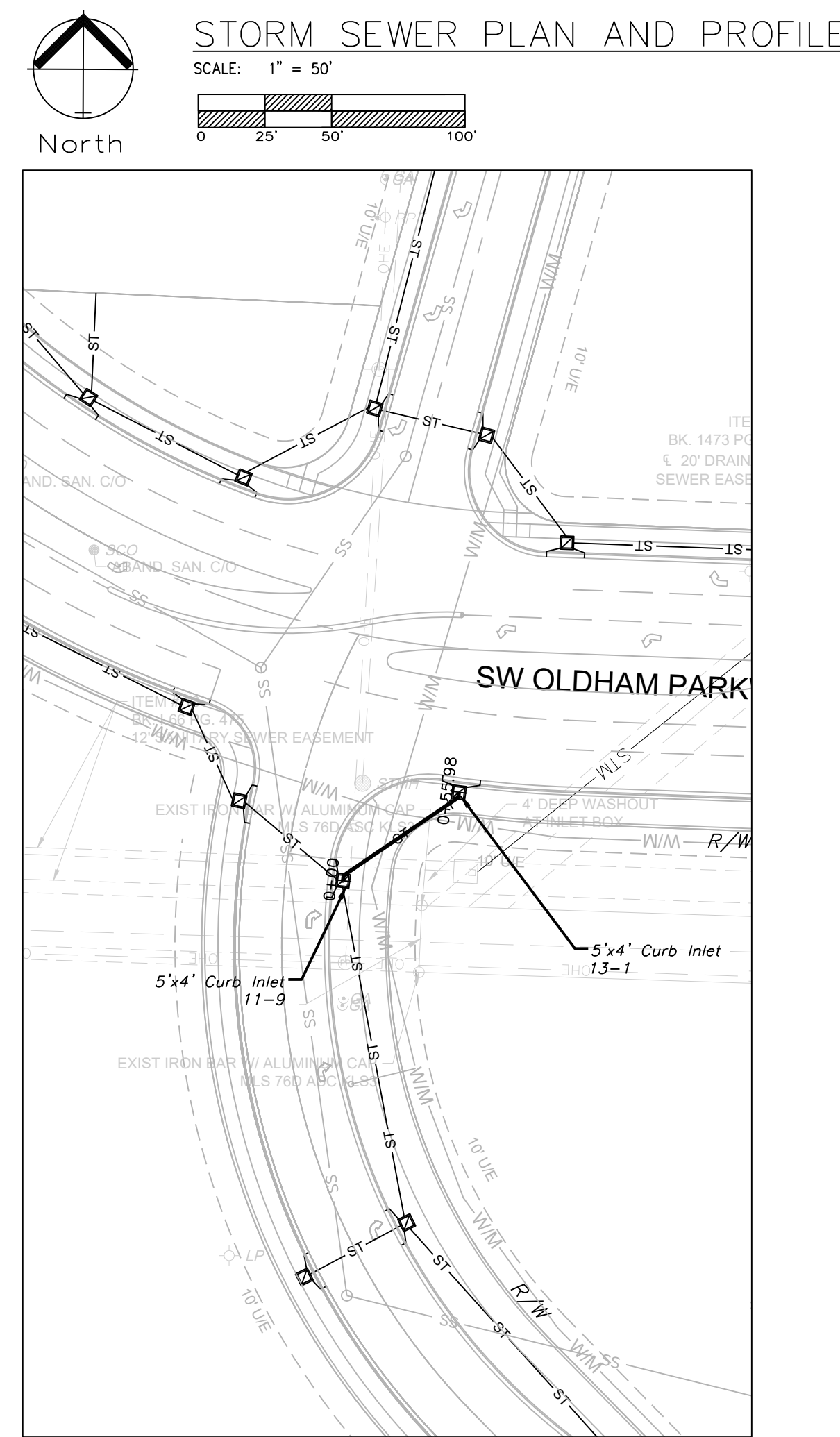
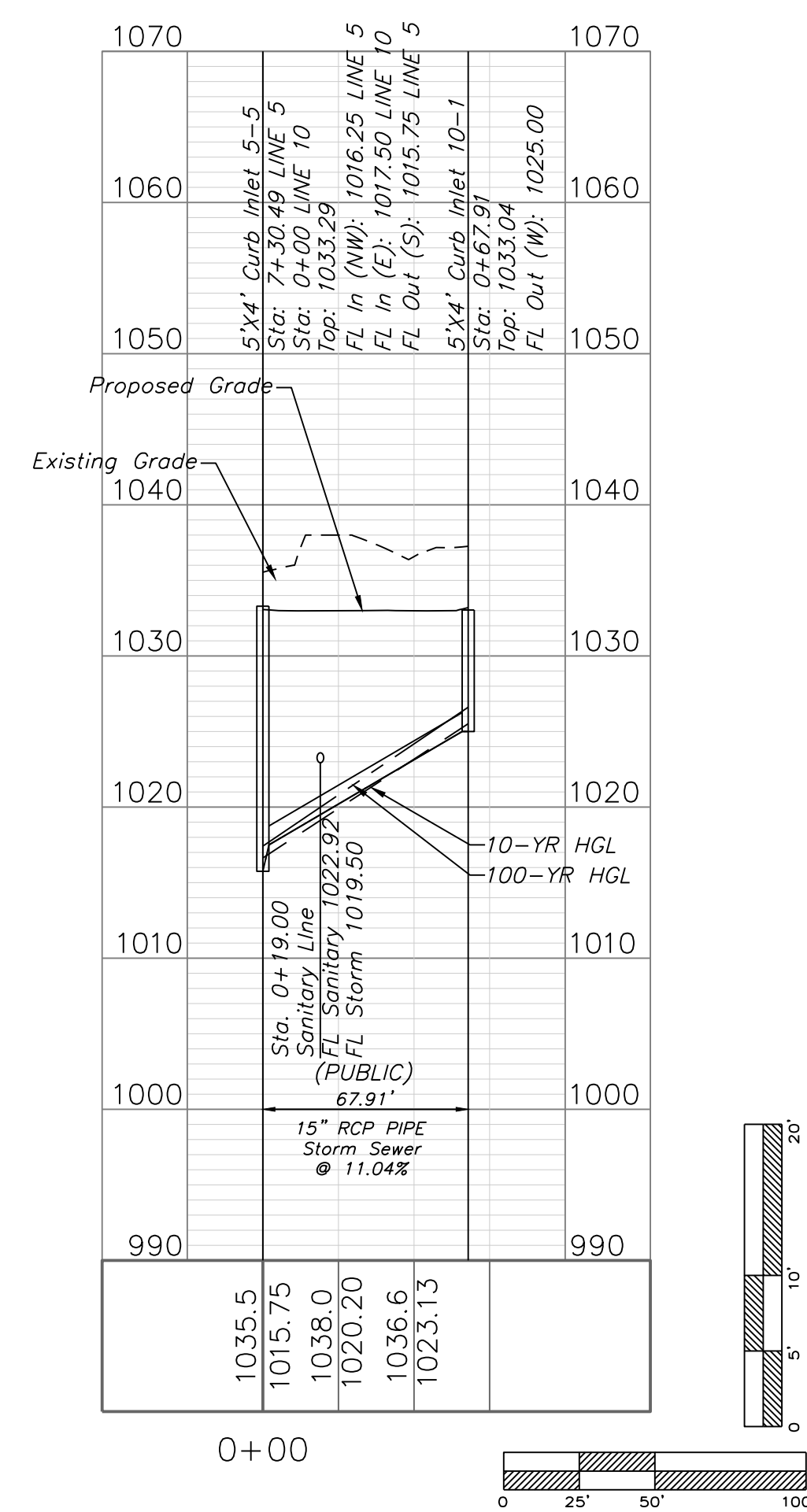
REVISIONS	
REV. 12/10/2024	
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REV. 2/6/2025	
REV. 3/5/2025	
REV. 3/24/2025	
REV. 4/15/2025	



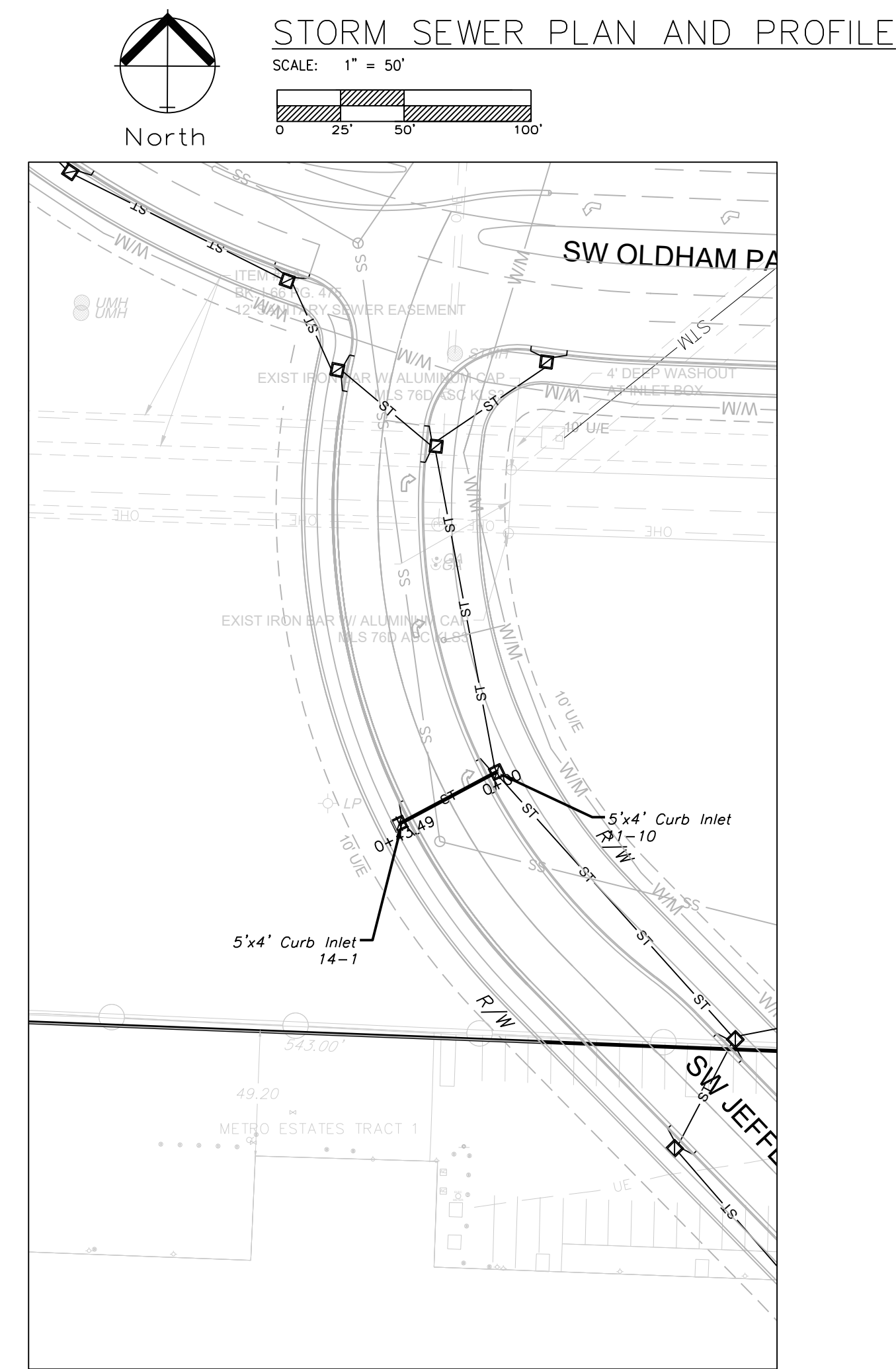
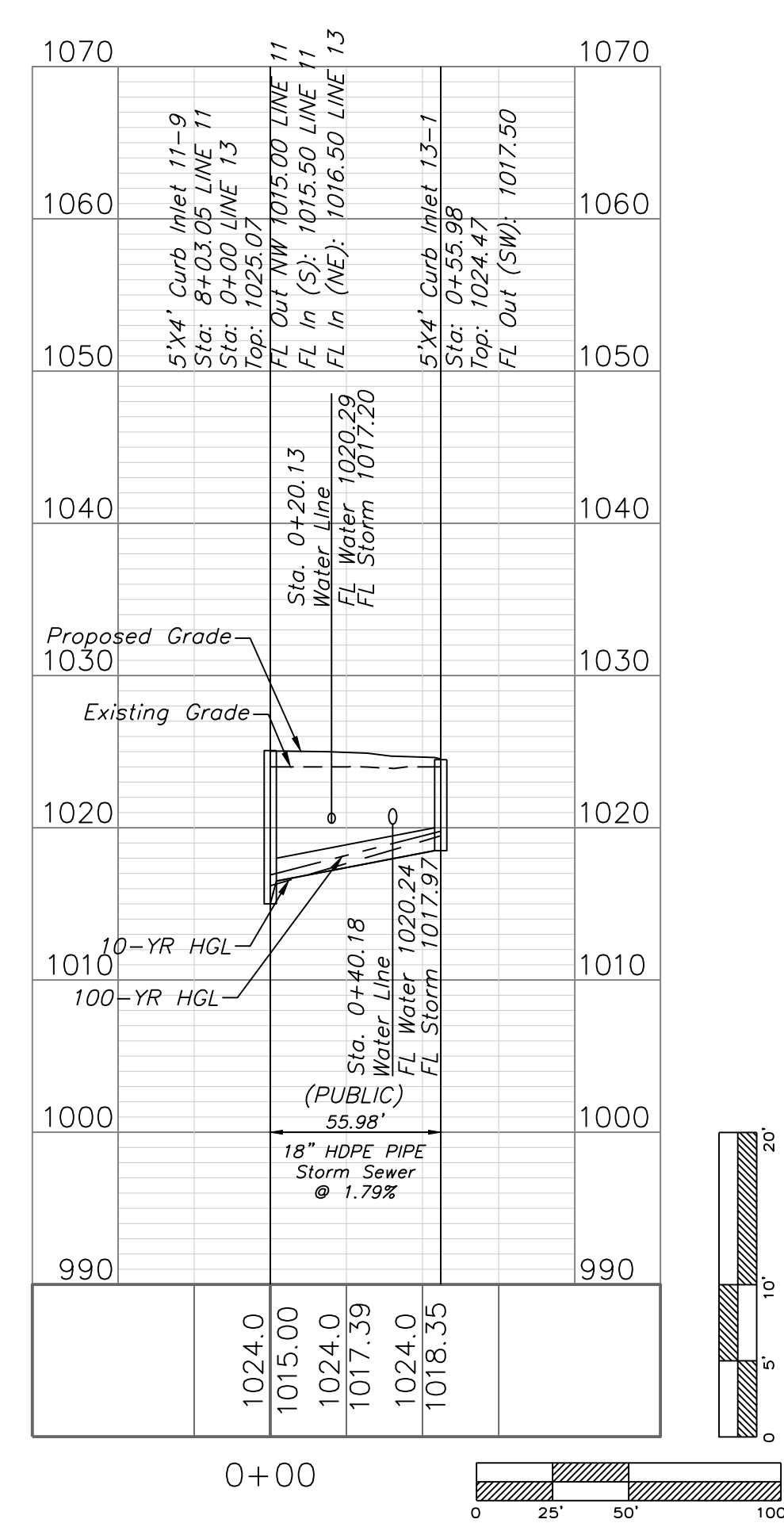
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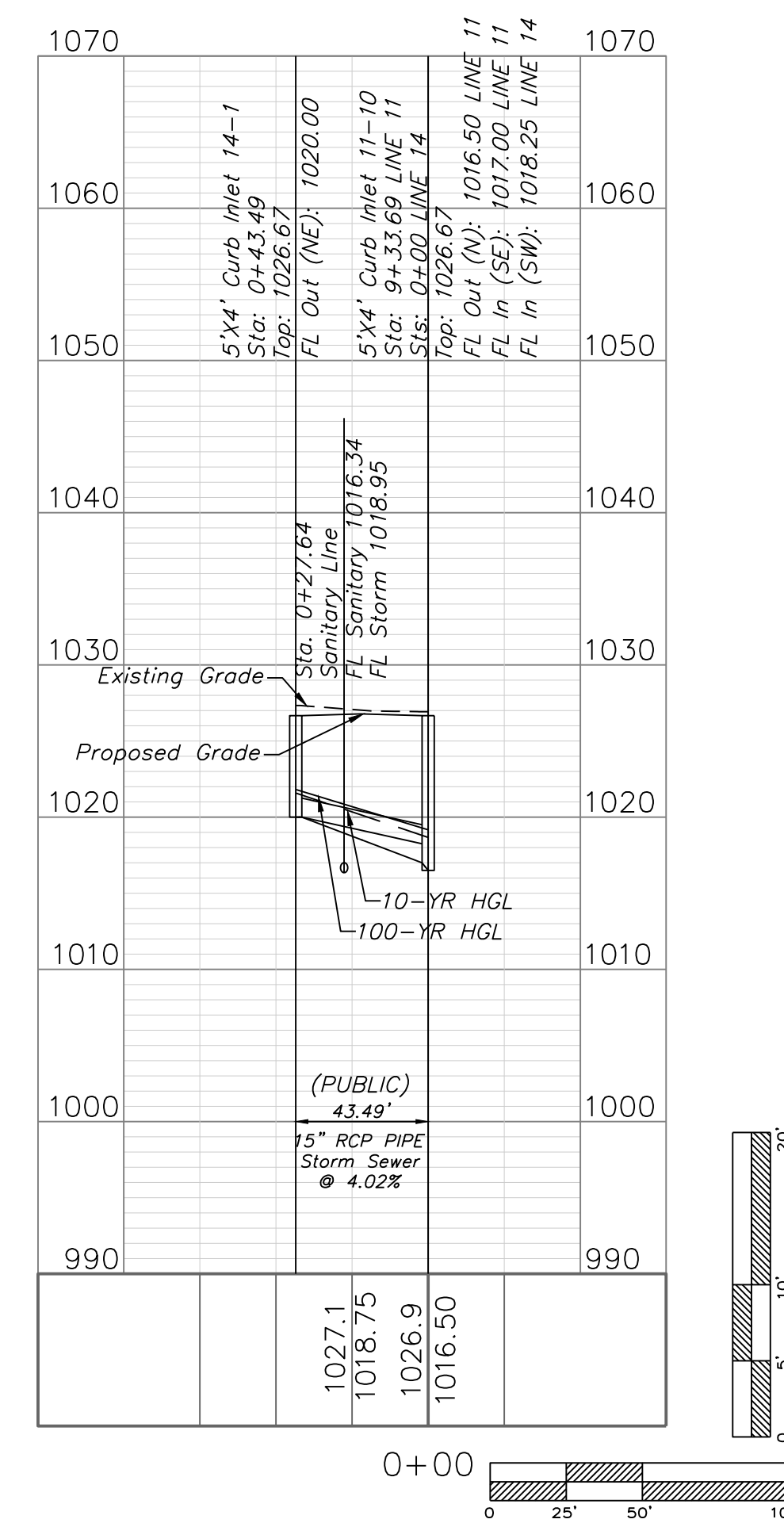
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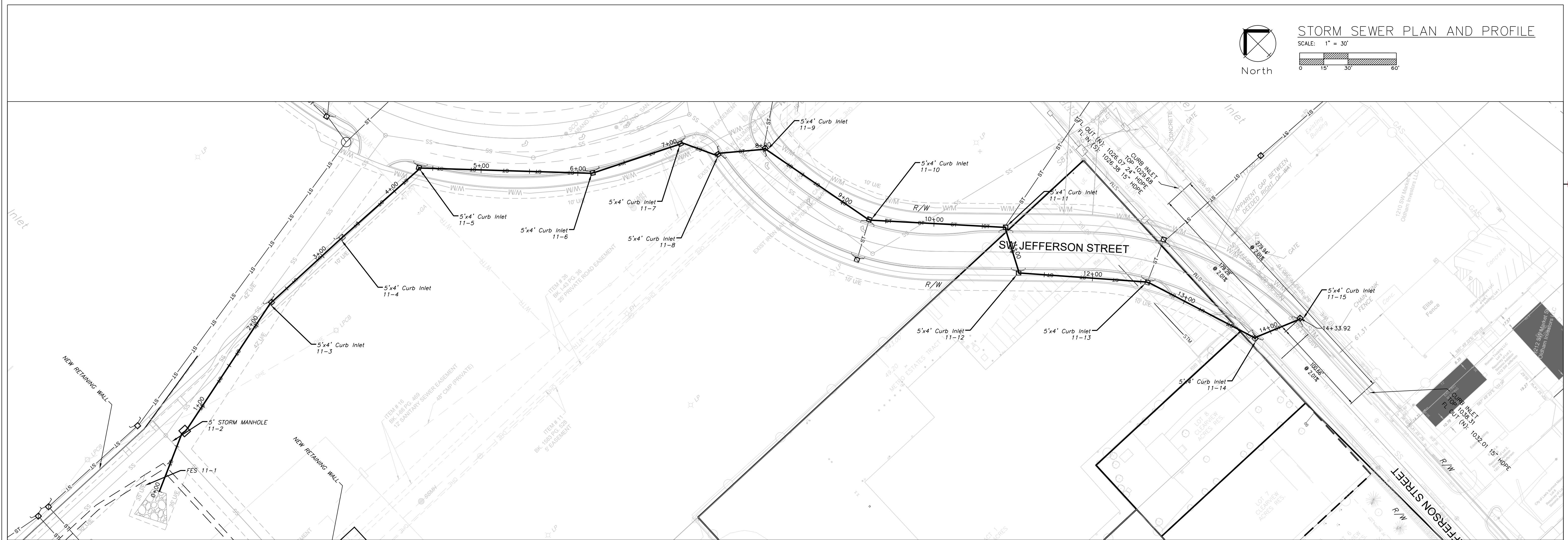


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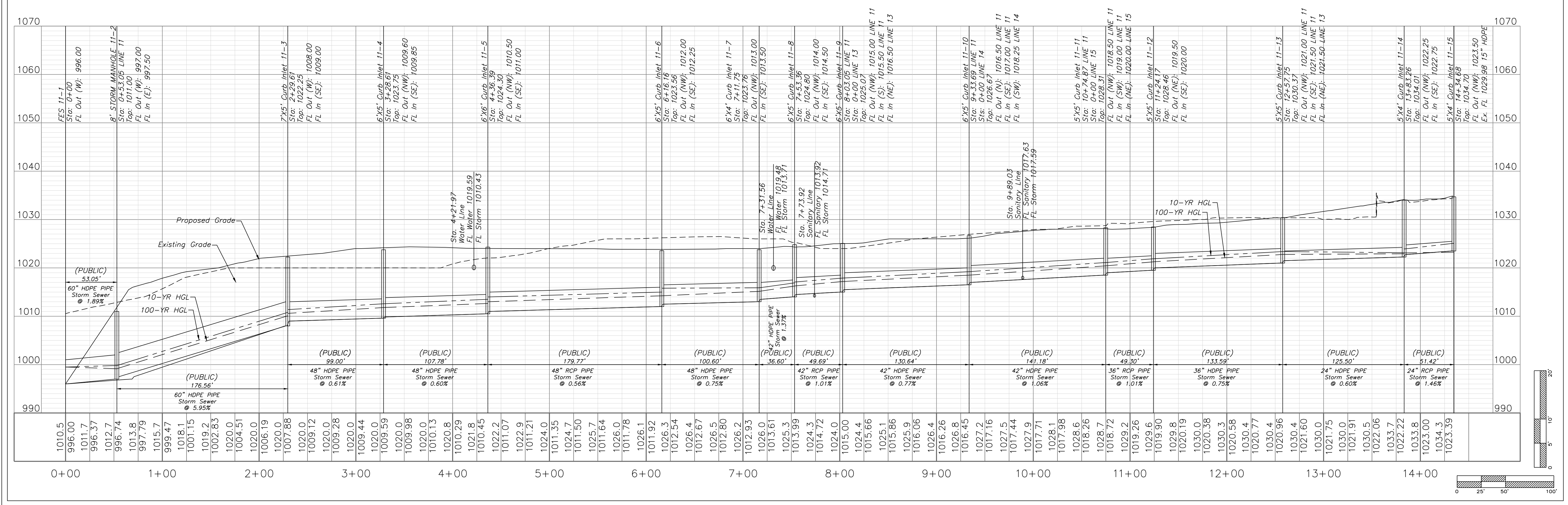


STORM LINE 14





STORM LINE 11



ENGINEERING SOLUTIONS

ENGINEERING & SURVEYING

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

Professional Registration

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Kansas
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Project

MARKETPLACE
LSMO

Issue Date

November 6, 2024

Storm Sewer Plan and Profile

Construction Plans for:

Oldham Village

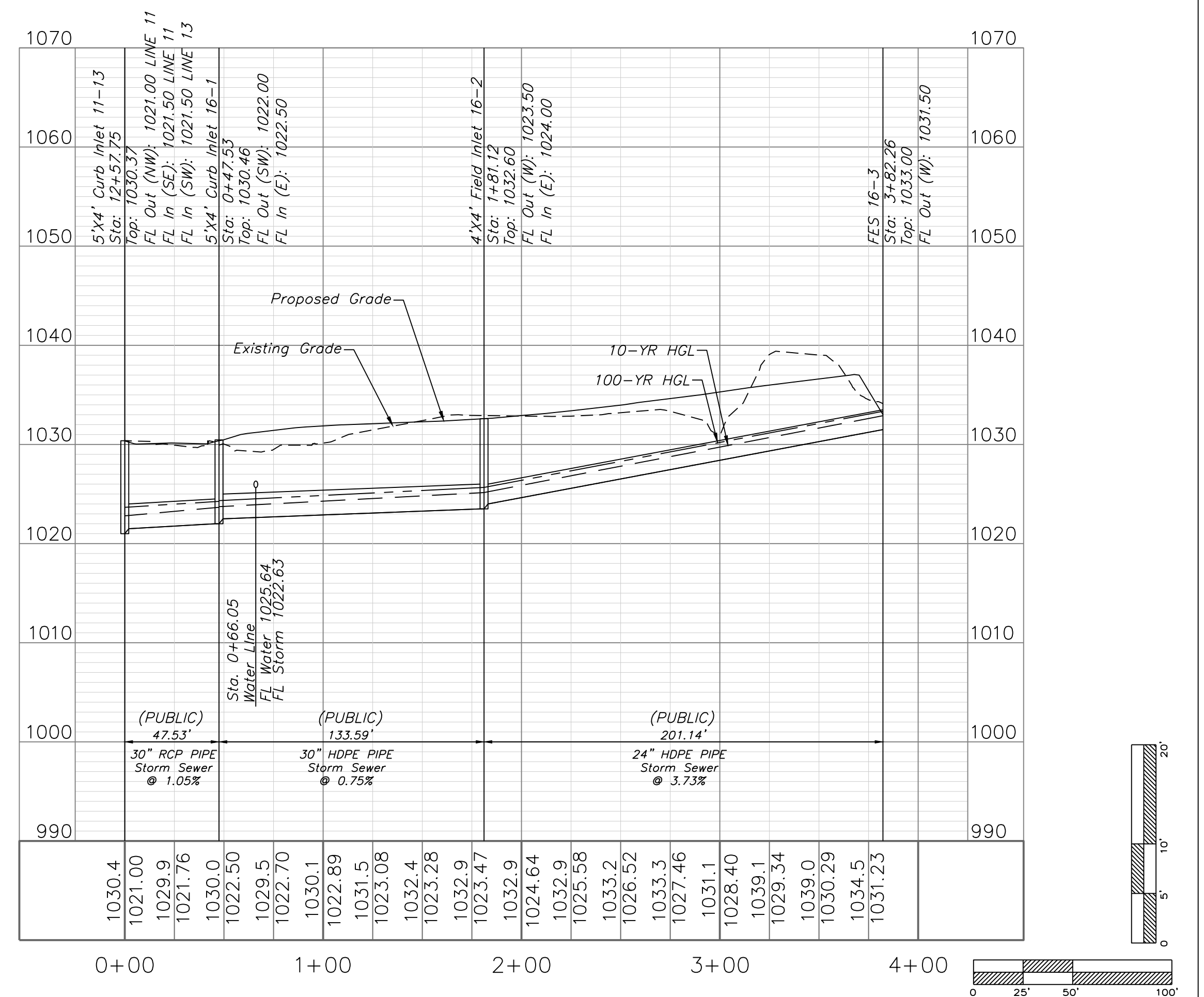
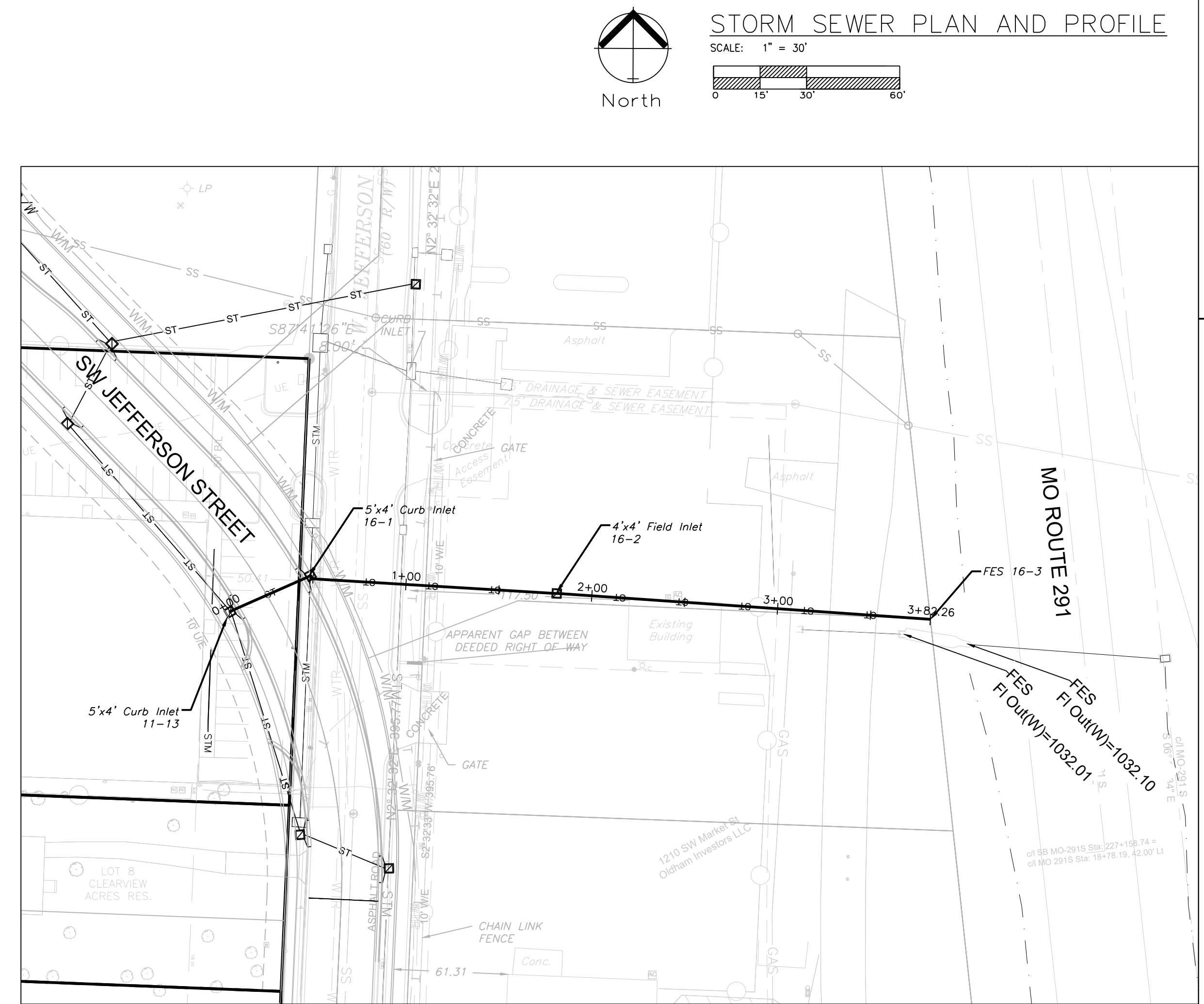
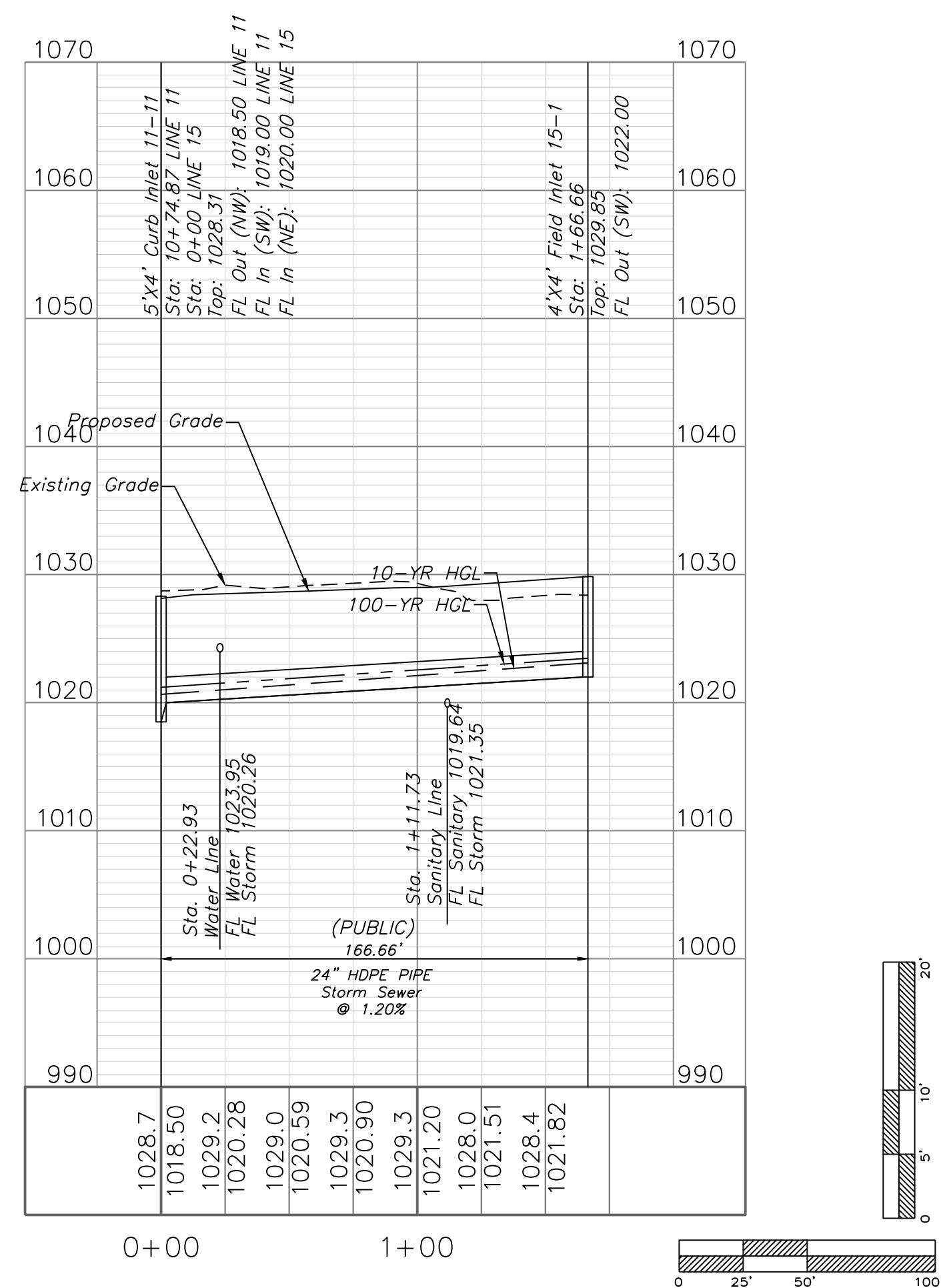
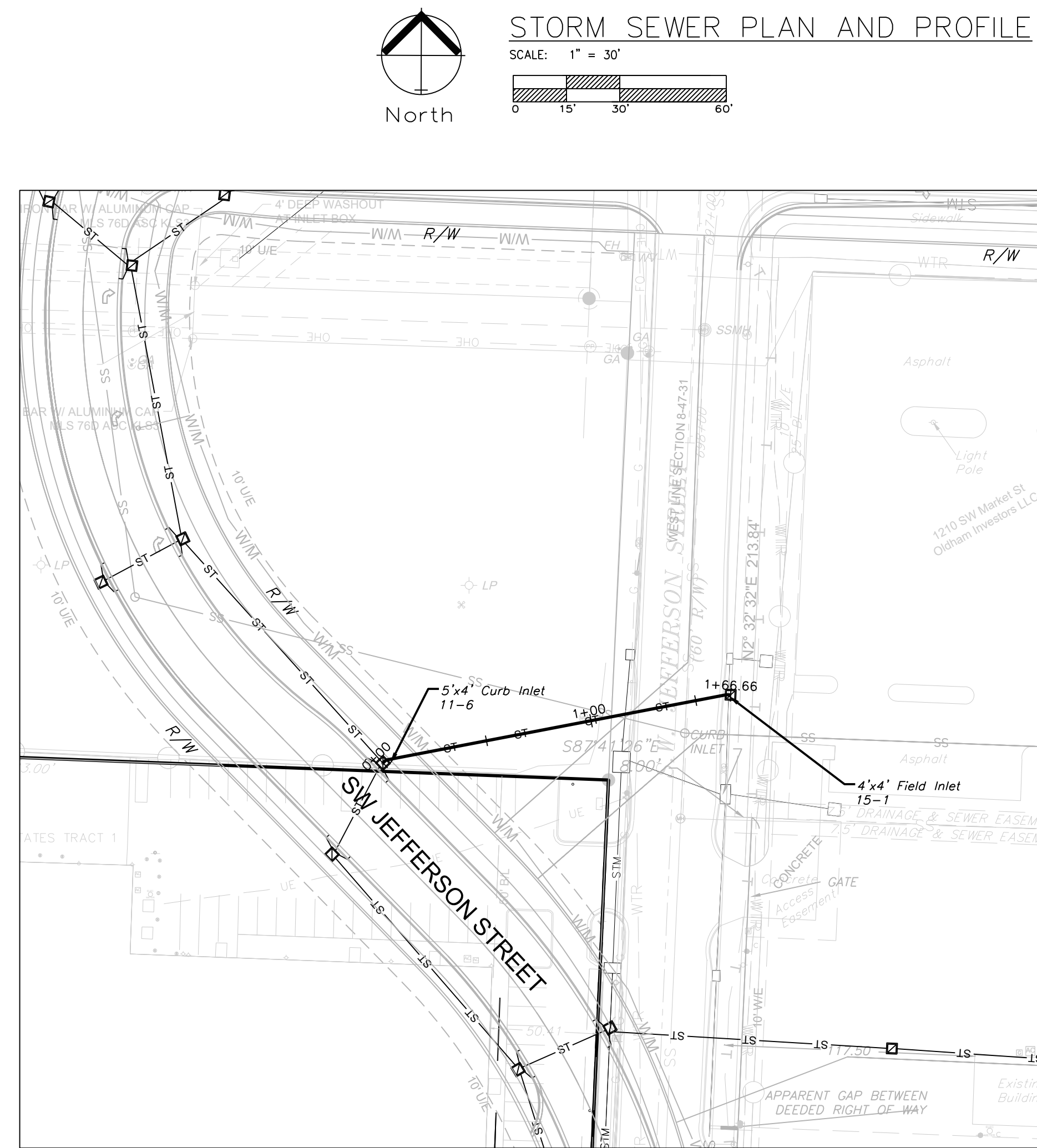
Lee's Summit, Jackson County, Missouri

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C. 307



10-YEAR STRUCTURE																							
D.S. Str.	Str. No.	Area (ac)	InletTime (min)	Int. (in/hr)	RunoffCoeff. (C)	Q=CIA (cfs)	Q Carry-over (cfs)	Q Captured (cfs)	Q Bypassed (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		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		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	0.11	2.46	0.23	8.61	11-13
11-12	11-13	0.38	5.6	7.17	0.68	1.85	0.35	2.01	0.19	Curb	5.8	5	0.013	2	0.05	0.02	9	0.97	0.1	1.92	0.22	7.93	11-14
11-13	11-14	0.4	5.7	7.14	0.68	1.94	0.17	1.76	0.35	Curb	5.8	5	0.032	2	0.05	0.02	9	0.94	0.1	2.1	0.19	6.36	11-7
11-14	11-15	0.35	6.7	6.87	0.68	1.64	0	1.47	0.17	Curb	5.8	5	0.035	2	0.05	0.02	9	0.92	0.08	1.52	0.17	5.51	11-8
11-9	13-1	1.42	8.4	6.46	0.68	6.24	0	3.8	2.44	Curb	5.8	5	0.011	2	0.05	0.02	9	1.06	0.23	8.59	0.31	12.62	Sag
11-10	14-1	0.61																					

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)	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	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	1018.66	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	
11-5	11-6R	179.77	0.24	16.49	0.68	0.16	10.25	7.5	14.9	5.3	54.17	54.17	107.14	8.08	48	0.56	1011.00	1012.00	1013.01	1014.21	1024.30	1023.56	
11-6R	11-6L	1	0.53	0.53	0.68	0.36	0.36	7.9	7.9	6.6	2.37	2.37	1015.74	1.73	48	50	1012.00	1012.50	1014.21	1012.94	1023.56	1023.56	
11-6R	11-7	100.6	0.43	15.72	0.68	0.29	9.72	8.8	14.7	5.3	51.7	51.7	161.24	7.96	48	0.75	1012.25	1013.00					

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		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		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 CI	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	0.29	11.69	11-12	
11-11	11-12	0.47	5.9	12.48	0.68	3.99	1.6	3.59	2	Curb	5.8	5	0.011	2	0.05	0.02	9	1.05	0.22	7.89	0.3	12.08	11-13	
11-12	11-13	0.38	5.6	12.61	0.68	3.26	1.59	3.25	1.6	Curb	5.8	5	0.013	2	0.05	0.02	9	1.03	0.2	6.89	0.28	11.03	11-14	
11-13	11-14	0.4	5.7	12.57	0.68	3.42	0.79	2.61	1.59	Curb	5.8	5	0.032	2	0.05	0.02	9	0.98	0.17	5.56	0.23	8.63	11-7	
11-14	11-15	0.35	6.7	12.13	0.68	2.89	0	2.1	0.79	Curb	5.8	5	0.035	2	0.05	0.02	9	0.95	0.13	3.7	0.2	7.19	11-8	
11-9	13-1	1.42	8.4																					

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)	RnfallInt (in/hr)	TotalRunoff (cfs)	TotalFlow (cfs)	CapacFull (cfs)	Veloc (ft/s)	PipeSize (in)	PipeSlope (%)	Inv ElevDn (ft)	Inv ElevUp (ft)	HGLDn (ft)	HGLUp (ft)	Grnd/RimDn (ft)	Grnd/RimUp (ft)	
1-1	1-2	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 CI	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	0.68	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	16.03	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	1010.50	1012.60	1013.50	1023.75	1024.30	
11-5	11-6R	179.77	0.24	16.49	0.68	0.16	10.25	7.5	14.6	9.6	97.96	97.96	107.14	9.67	48	0.56	1011.00	1012.00	1014.01	1015.01	1024.30	1023.56	
11-6R	11-6L	1	0.53	0.53	0.68	0.36	0.36	7.9	7.9	11.6	4.2	4.2	1015.74	1.98	48	50	1012.00	1012.50	1015.86	1013.09	1023.56	1023.56	
11-6R	11-7	100.6	0.43	15.72	0.68	0.29	9.72	8.8	14.4	9.6													

