

CONSTRUCTION PLANS
FOR
LOWENSTEIN DRIVE & BLACK TWIG LANE
IMPROVEMENTS
STREETS OF WEST PRYOR
LEE'S SUMMIT, MISSOURI

JANUARY 2019

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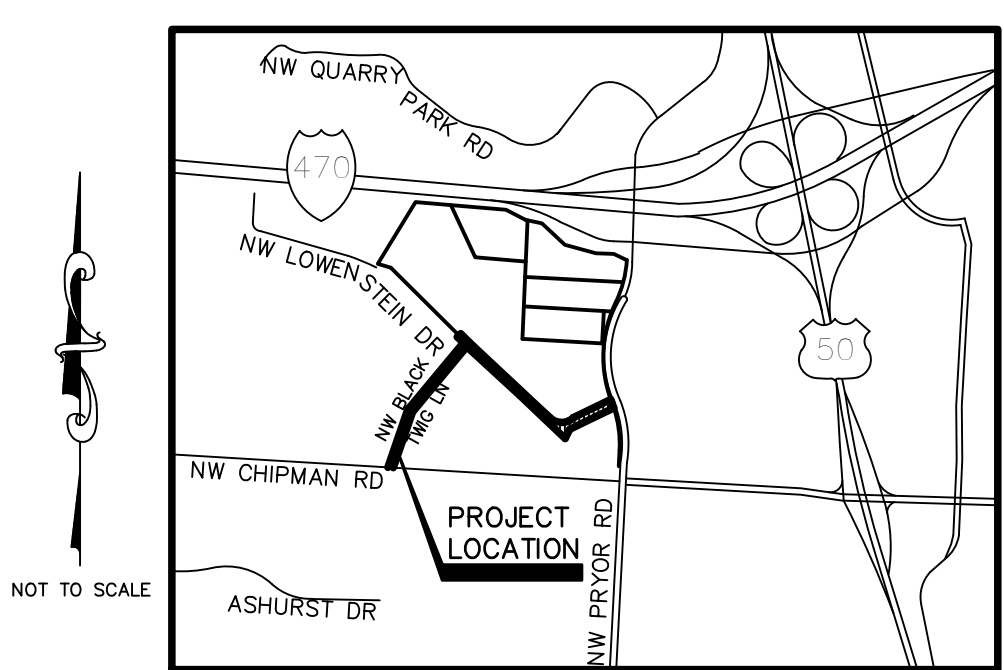
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MISSOURI ONE CALL SYSTEM, INC.



LOCATION MAP
CITY OF LEE'S SUMMIT, MISSOURI

UTILITY STATEMENT:
THE UNDERGROUND UTILITIES SHOWN HEREON ARE FROM FIELD SURVEY INFORMATION OF ONE-CALL LOCATED UTILITIES, FIELD SURVEY INFORMATION OF ABOVE GROUND OBSERVABLE EVIDENCE, AND/OR THE SCALING AND PLOTTING OF EXISTING UTILITY MAPS AND DRAWINGS AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHERMORE, THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES BY EXCAVATION UNLESS OTHERWISE NOTED ON THIS SURVEY.

CAUTION - NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

SAFETY NOTICE TO CONTRACTOR
IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

WARRANTY / DISCLAIMER
THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A TEMPORARY BASIS AT THE SITE.

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Table with 3 columns: Street Name, Posted Speed, Design Speed. Rows: NW Lowenstien Road (35, 35), NW Black Twig Lane (25, 25).



LEON D. OSBOURN
PROFESSIONAL ENGINEER

APPROVED THIS _____ DAY OF _____, _____.
OWNER: MATT PENNINGTON

APPROVED THIS _____ DAY OF _____, _____.
CITY APPROVAL

OWNER:
STREETS OF WEST PRYOR, LLC
12701 METCALF AVENUE
OVERLAND PARK, KS 66213
CONTACT: MATT PENNINGTON
email: matt@drakekc.com

DEVELOPER:
DRAKE DEVELOPMENT, LLC
12701 METCALF AVENUE
OVERLAND PARK, KS 66213
AGENT: DAVID N. OLSON
email: daveolson@monarchprojectllc.com

PREPARED BY:
KAW VALLEY ENGINEERING, INC.
2319 N. JACKSON
JUNCTION CITY, KS 66441
785-762-5040
CONTACT: LEON D OSBOURN
EMAIL: ldo@kveng.com

DATUM BENCHMARK:
VERTICAL DATUM IS NAVD 88 ESTABLISHED USING OPUS PROJECTS ON PROJECT CONTROL.

BENCHMARKS:
BM #1: CHISELED "SQUARE" ON TOP OF CURB POINT OF INTERSECTION OF WEST PARK PARKING LOT AT EAST DRIVE ENTRANCE. ELEV=985.05
BM #2: CHISELED "SQUARE" ON NORTHWEST CORNER AREA INLET, 25'± EAST OF CURB LINE AND ON-LINE WITH SOUTH CURB OF LOWENSTEIN DRIVE AT 90' BEND IN ROAD. ELEV=971.06

INDEX TO SHEETS

- 1 TITLE SHEET
2 GENERAL NOTES AND QUANTITIES
3 GENERAL LAYOUT SHEET
4 TYPICAL SECTIONS
5 NW LOWENSTEIN DRIVE - PLAN & PROFILE
6 NW LOWENSTEIN DRIVE - PLAN & PROFILE
7 NW LOWENSTEIN DRIVE - PLAN & PROFILE
8 NW LOWENSTEIN DRIVE - PLAN & PROFILE
9 NW LOWENSTEIN DRIVE - PLAN & PROFILE
10 NW PRYOR DRIVE WIDENING
11 NW BLACK TWIG DRIVE - PLAN & PROFILE
12 NW BLACK TWIG DRIVE - PLAN & PROFILE
13 NW BLACK TWIG DRIVE - PLAN & PROFILE
14 DRAINAGE AREA MAP
15 STORM SEWER PLAN AND PROFILE - LINE D
16 STORM SEWER PLAN AND PROFILE - LINE D
17 STORM SEWER PLAN AND PROFILE - LINE F
18 STORM SEWER PLAN AND PROFILE - LINE H
19 STORM SEWER PLAN AND PROFILE - LINE D-6 AND T
20 STORM SEWER PLAN AND PROFILE - LINE V AND V-1
21 STORM SEWER PLAN AND PROFILE - LINE G AND X
22 EROSION CONTROL PLAN
23 PAVEMENT MARKING & SIGNING PLANS
24 PAVEMENT MARKING & SIGNING PLANS
25 PAVEMENT MARKING DETAIL SHEET
26 SIGN AND TRAFFIC CONTROL DETAIL SHEET
27 STREET DETAIL SHEET
28 STREET DETAIL SHEET
29 STORM SEWER DETAIL SHEET
30 STORM SEWER AND EROSION CONTROL DETAIL SHEET
31 EROSION CONTROL DETAIL SHEET
32 EROSION CONTROL DETAIL SHEET
33 EROSION CONTROL DETAIL SHEET
34 EROSION CONTROL DETAIL SHEET
35 CURB RAMP DETAIL SHEET
36 CURB RAMP DETAIL SHEET
37 LOWENSTEIN DRIVE - CROSS SECTIONS
38 LOWENSTEIN DRIVE - CROSS SECTIONS
39 LOWENSTEIN DRIVE - CROSS SECTIONS
40 LOWENSTEIN DRIVE - CROSS SECTIONS
41 LOWENSTEIN DRIVE - CROSS SECTIONS
42 LOWENSTEIN DRIVE - CROSS SECTIONS
43 LOWENSTEIN DRIVE - CROSS SECTIONS
44 LOWENSTEIN DRIVE - CROSS SECTIONS
45 NW PRYOR DRIVE WIDENING - CROSS SECTIONS
46 BLACK TWIG - CROSS SECTIONS
47 BLACK TWIG - CROSS SECTIONS
48 BLACK TWIG - CROSS SECTIONS

Revision table and project information including: Project No. A14-7061-1, Designer LDO, Drawn by JT/BKR, City of Lee's Summit, Missouri, Public Street Plans, Title Sheet, Kaw Valley Engineering logo and contact info.

1. EXCESS EXCAVATION SHALL BE DEPOSITED IN AREAS AS DIRECTED BY THE OWNER.

3. THE CONTRACTOR SHALL TAKE CARE IN PROTECTING EXISTING TREES AND SHRUBS OUTSIDE OF THE PROPOSED CONSTRUCTION. CARE SHALL BE TAKEN NOT TO DISTURB LAWNS OR EXISTING STRUCTURES OUTSIDE OF THE CONSTRUCTION LIMITS.

5. CONTRACTOR SHALL SEED ALL DISTURBED AREAS IN ACCORDANCE TO REQUIREMENTS OF TECHNICAL SPECIFICATIONS. BUILDING LOTS WILL NOT REQUIRE SEEDING BUT ALL SLOPES AND BACKFILL BEHIND CURBS SHALL BE SEEDED WITHIN RIGHT-OF-WAY LIMITS, AND ON SLOPES OF EMBANKMENTS. AREAS SHALL BE SEEDED WITHIN 28 DAYS OF FINISH GRADING OR AS DIRECTED BY OWNER.

7. CONTRACTOR SHALL SUBMIT A JOINTING PLAN AND RECEIVE APPROVAL FROM THE ENGINEER AND CITY PRIOR TO CONCRETE PAVING OPERATIONS.

9. CONTRACTOR SHALL INSTALL SILT FENCE TO PREVENT SEDIMENT FROM LEAVING CONSTRUCTION LIMITS. SILT FENCE IS REQUIRED AT BOTTOM OF SLOPE ON ALL EMBANKMENTS AND AT DISCHARGE POINTS OF STREETS, STORM SEWER INLETS AND PIPE END SECTIONS.

11. THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY PAVING. TOPSOIL FOR REPLACEMENT ON SLOPES MAY BE STOCKPILED ON-SITE. EXCESS TOPSOIL MAY BE WASTED IN FILL SLOPES PROVIDED THAT NO TOPSOIL WILL BE WASTED WITHIN 10 FEET OF THE EDGE OF THE BUILDING OR PARKING AREA. BURNING OF TIMBER WILL NOT BE PERMITTED UNLESS APPROVAL IS OBTAINED FROM GOVERNING OFFICIALS. STRIPPING EXISTING TOPSOIL AND ORGANIC MATTER SHALL BE TO A MINIMUM DEPTH OF 6 INCHES.

13. EROSION CONTROL SEDIMENT FENCE SHALL BE INSTALLED 1'-0" BEHIND CURB & GUTTER UPON COMPLETION OF BACKFILL OF CURB IN ALL AREAS WHERE SLOPES FROM LOT DRAIN TOWARDS CURB. UPON COMPLETION OF FINAL GRADING THE TOES OF ALL EMBANKMENTS IN EXCESS OF TWO FEET IN HEIGHT SHALL HAVE EROSION CONTROL SEDIMENT FENCE INSTALLED.

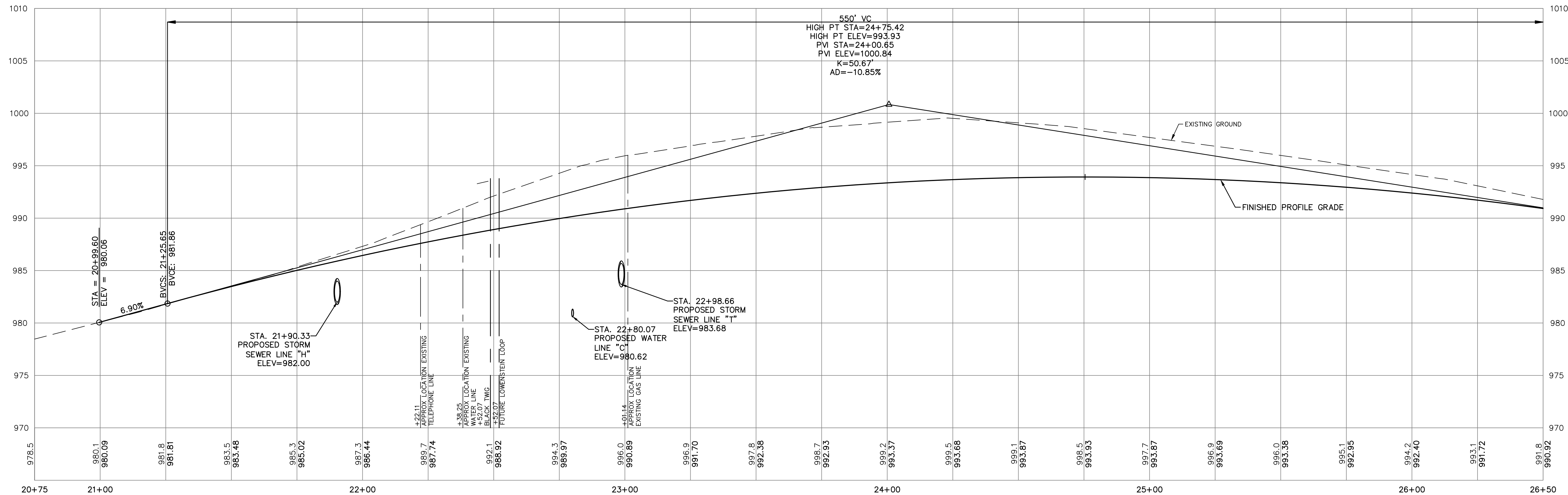
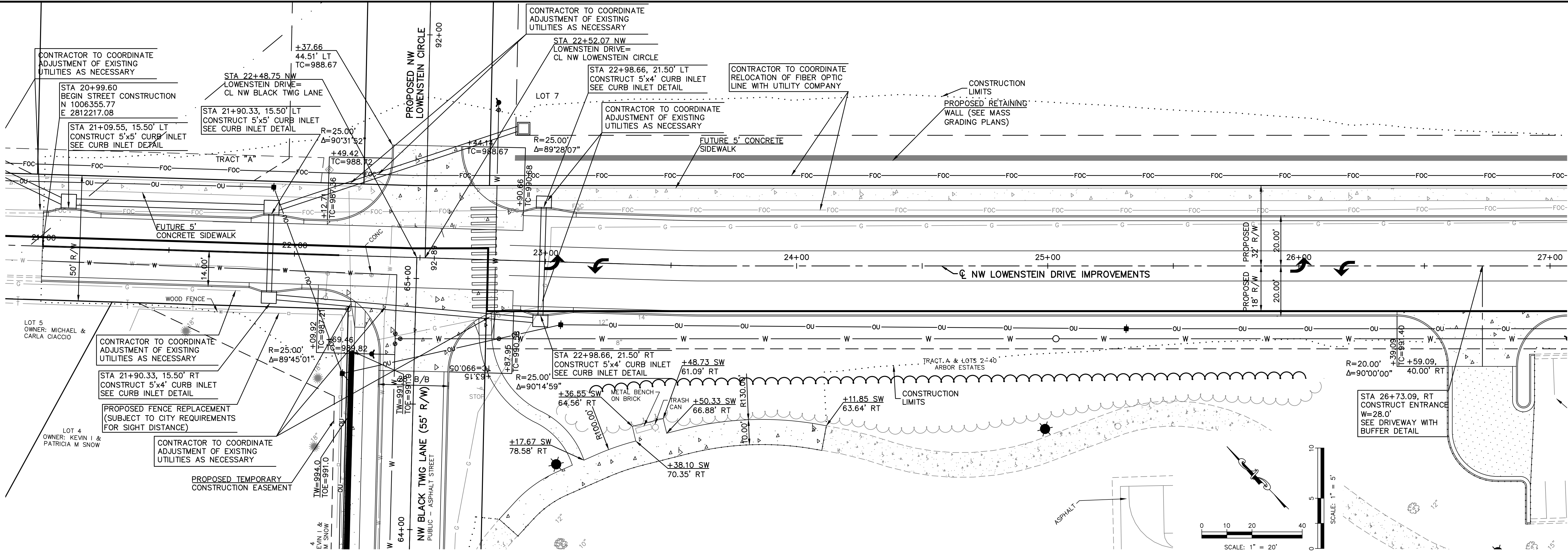
15. WHERE CURB AND GUTTER IS MONOLITHIC WITH THE STREET, THE CURVE SHALL BE POURED AT THE SAME DEPTH AS THE STREET.

20. THE STANDARD SPECIFICATIONS AND DESIGN CRITERIA OF THE CITY OF LEE'S SUMMIT AND KANSAS CITY METROPOLITAN CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION SHALL GOVERN THE CONSTRUCTION OF ALL PUBLIC IMPROVEMENTS FOR THIS PROJECT.

	SECTION CORNER, ORIGIN UNKNOWN UNLESS OTHERWISE NOTED		STORM SEWER MANHOLE
	MONUMENT FOUND, ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED		TELEPHONE SIGN
(D)	DESCRIBED		TELEPHONE MANHOLE
(M)	MEASURED		TELEPHONE PEDESTAL
(C)	CALCULATED	_____ T _____	UNDERGROUND TELEPHONE LINE
(P)	PLATTED		SPLICE BOX
	STREET SIGN		FIBER OPTIC CABLE SIGN
	UTILITY POLE	_____ FOC _____	UNDERGROUND FIBER OPTIC CABLE
	UTILITY POLE W/ LIGHT		TRAFFIC CONTROL POLE
	UTILITY POLE W/TRANSFORMER		PULL BOX
	LIGHT POLE		FLAG POLE
_____	DEADMAN ANCHOR		MAILBOX
_____	OVERHEAD UTILITY - # LINES		HANDICAP SIGN
	AIR CONDITIONING UNIT		HANDICAP PAINTED SYMBOL
	ELECTRIC PEDESTAL		LEFT TURN ARROW
	ELECTRIC METER		RIGHT TURN ARROW
_____	UNDERGROUND ELECTRIC LINE		RIGHT TURN ARROW
	UTILITY MANHOLE		GATE POST
	CABLE TV SIGN		FENCE POST
	CABLE TV PEDESTAL	_____	WOOD FENCE
	GAS SIGN	_____	CHAIN LINK FENCE
	GAS METER	_____ X _____	BARBED WIRE FENCE
_____	UNDERGROUND GAS LINE		DECIDUOUS TREE W/SIZE & DRIP LINE
	GAS CATHODIC PROTECTION STATION		EVERGREEN TREE W/SIZE & DRIP LINE
_____	WATER LINE		SAPLING TREE
	WATER LINE GATE VALVE		SHRUB
	WATER SPIGOT		STUMP
	WATER METER		TREE LINE
	WELL		SHRUB LINE
	FIRE HYDRANT		PARKING STALL COUNT
	SANITARY SEWER MANHOLE	_____ -970 _____	1' CONTOUR INTERVAL
_____	SANITARY SEWER LINE		RESTRICTED ACCESS
			BACK OF CURB TO BACK OF CURB
			EDGE TO EDGE

2319 N. JACKSON P.O. BOX 1364 LEE'S SUMMIT, MISSOURI 64044 PH. (785) 762-5040 FAX (785) 762-7744 joe@kveeng.com www.kveeng.com KAW VALLEY ENGINEERING KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19		STATE OF MISSOURI REGISTERED PROFESSIONAL ENGINEER LEON D. OSBOURN NUMBER E-1726 LEON D. OSBOURN ENGINEER MO # 021726		<table><thead><tr><th>REV</th><th>DATE</th><th>DESCRIPTION</th><th>DDN</th><th>CHK</th></tr></thead><tbody><tr><td>0</td><td>01-11-19</td><td>INITIAL ISSUE</td><td>LDO</td><td>JT</td></tr></tbody></table>		REV	DATE	DESCRIPTION	DDN	CHK	0	01-11-19	INITIAL ISSUE	LDO	JT
REV	DATE	DESCRIPTION	DDN	CHK											
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STREETS OF WEST PRYOR NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE LEE'S SUMMIT, MISSOURI		PUBLIC STREET PLANS GENERAL NOTES AND QUANTITIES													
PROJ. NO. A14-7061-1 DESIGNER LDO DRAWN BY JT/BKR CFN SHEET C-2 REV 0															





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DRAWN BY	JT/BKR
CFN	067-1PI-STPP
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LDG	JT	LDG	CHK

STATE OF MISSOURI
LEON D. OSBOURN
REGISTERED PROFESSIONAL ENGINEER
E-21726
EXPIRES 12/31/19

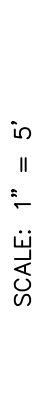
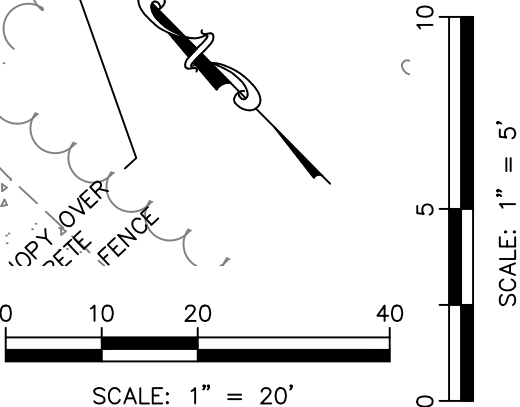
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ENGINEER
MO # 021726

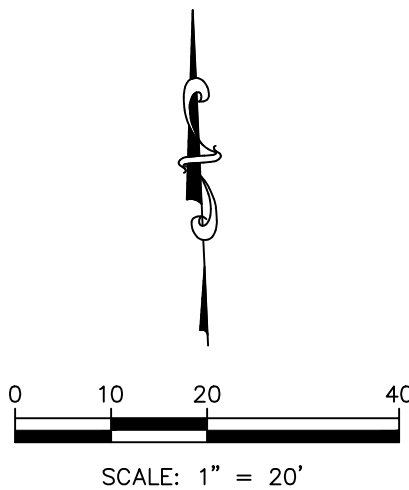
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jke@kvw.com | www.kvw.com

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EXPIRES 12/31/19

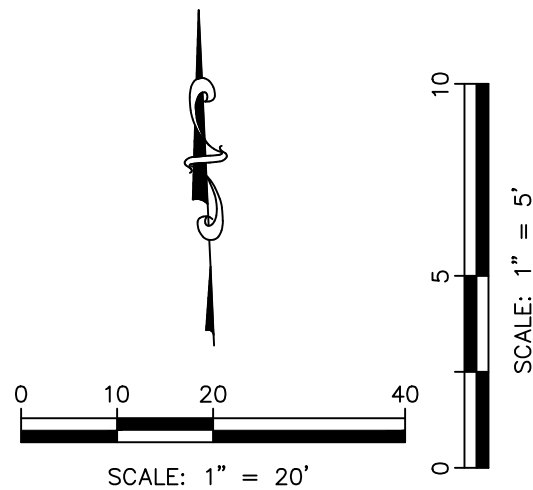
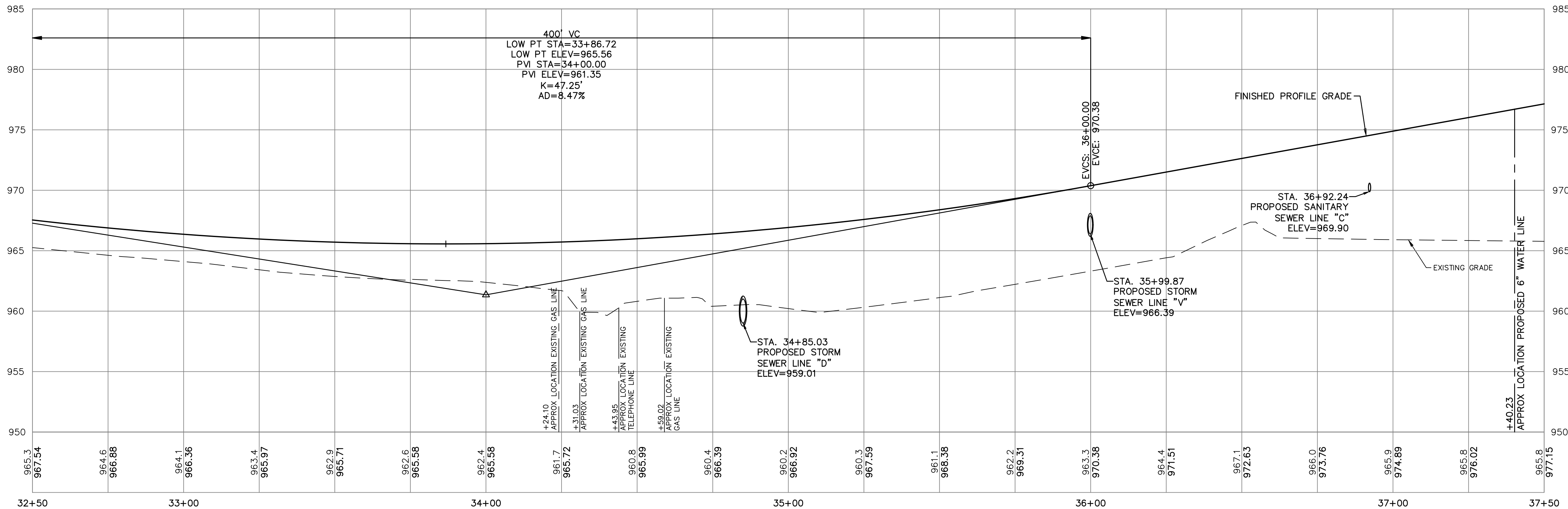
STREETS OF WEST PRYOR
NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE
LEE'S SUMMIT, MISSOURI

PUBLIC STREET PLANS
NW LOWENSTEIN DRIVE - PLAN & PROFILE

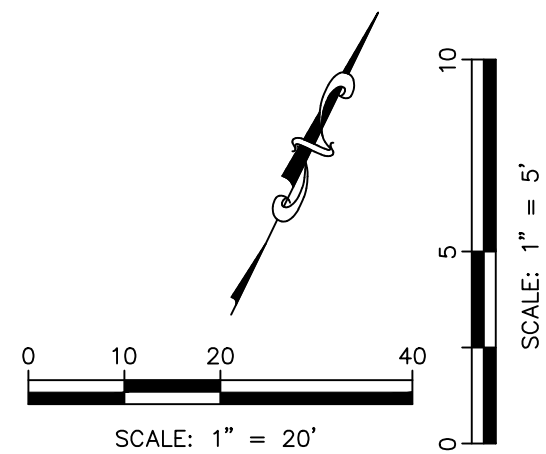
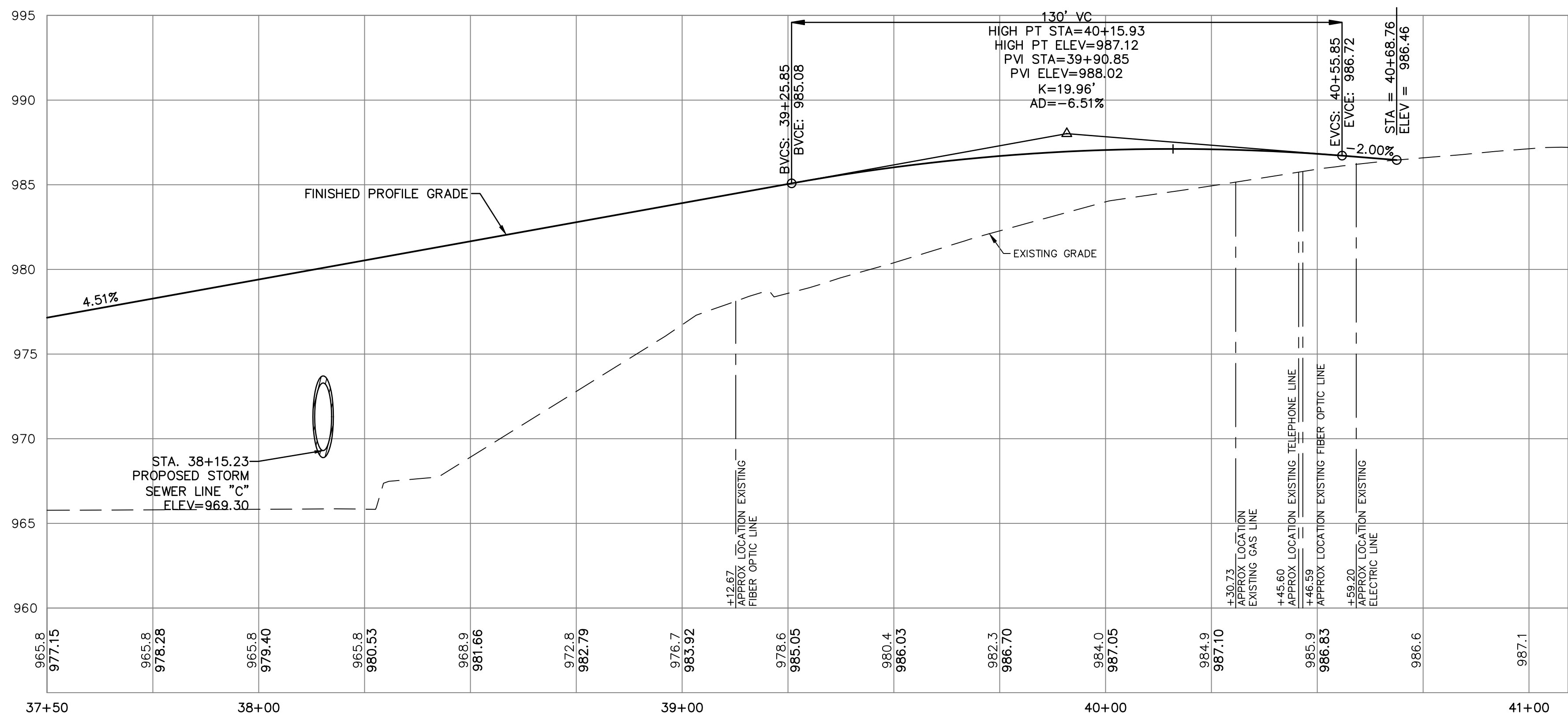
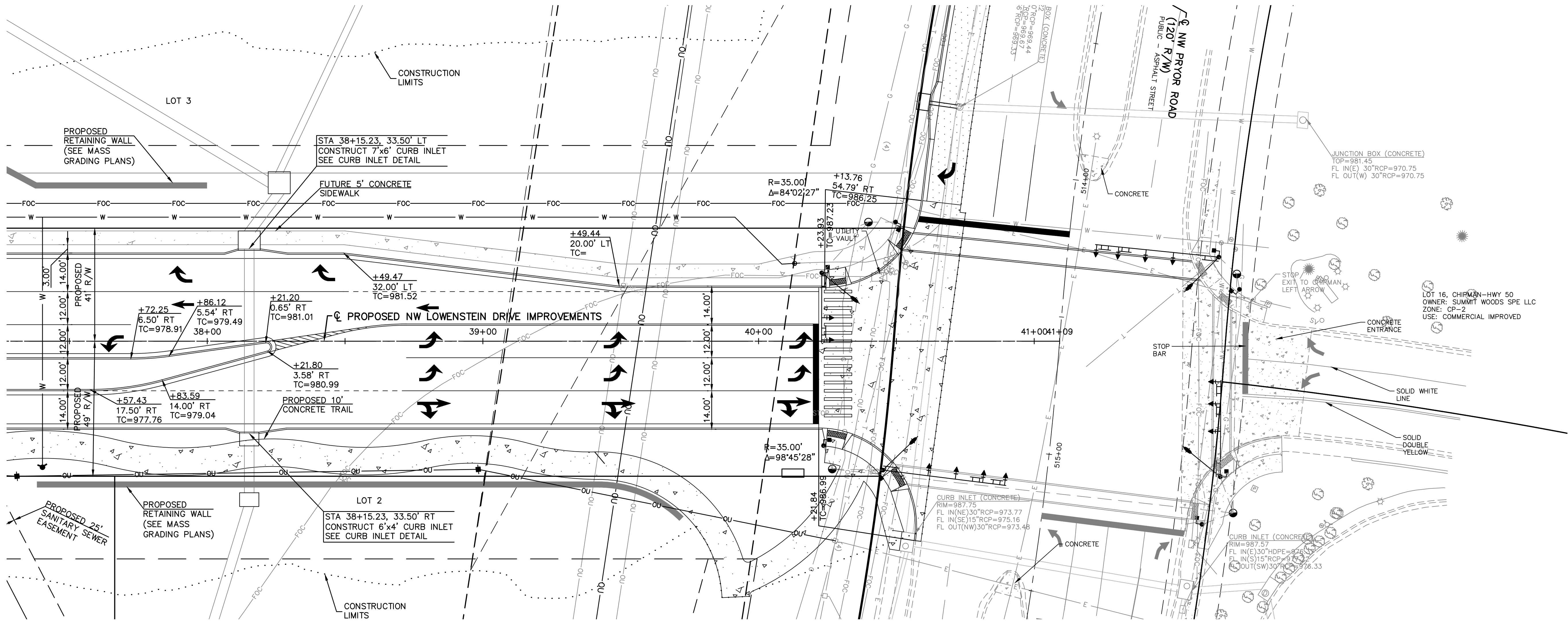




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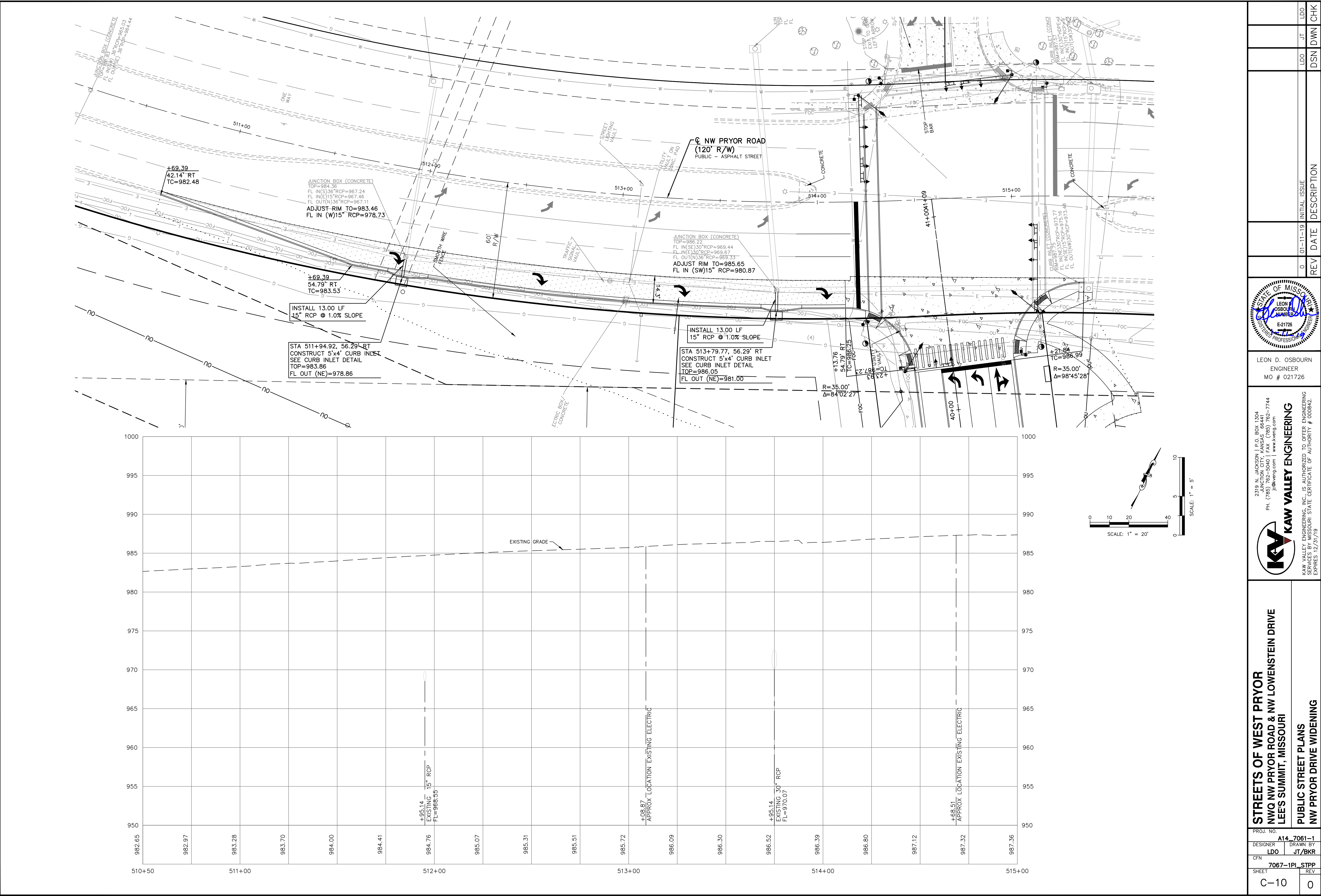
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LEON D. OSBOURN ENGINEER MO # 021726		LEON D. OSBOURN ENGINEER MO # 021726		STATE OF MISSOURI LEON D. OSBOURN E-21726 REGISTERED PROFESSIONAL ENGINEER	
2319 N. JACKSON P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 PH. (785) 762-5040 FAX (785) 762-7744 jke@kveeng.com www.kveeng.com		KAW VALLEY ENGINEERING		KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19	
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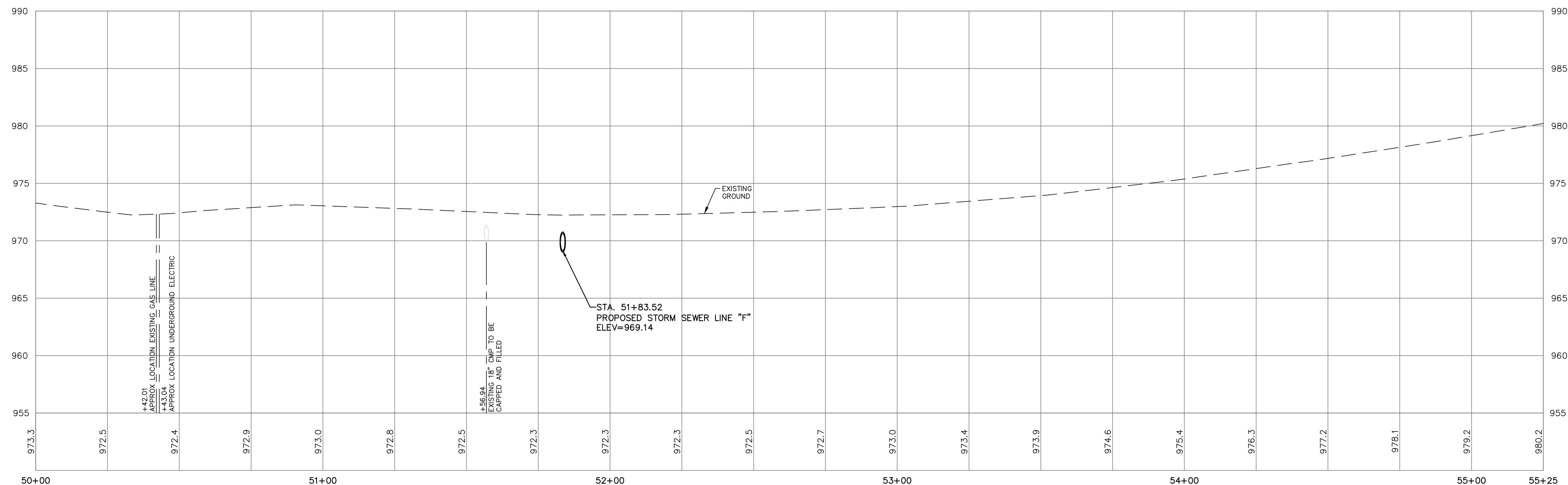
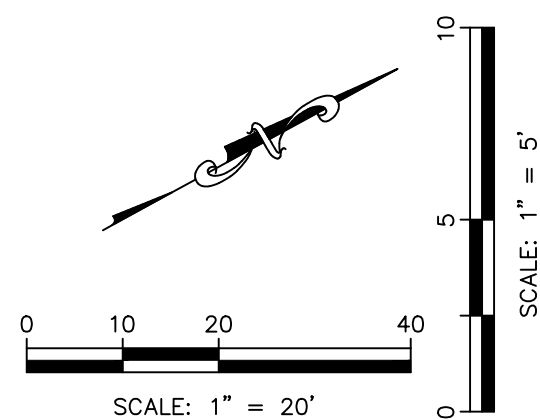
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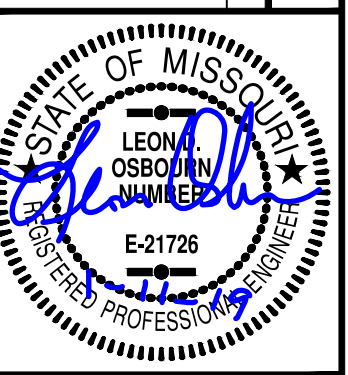
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LEON D. OSBOURN
ENGINEER
MO # 021726

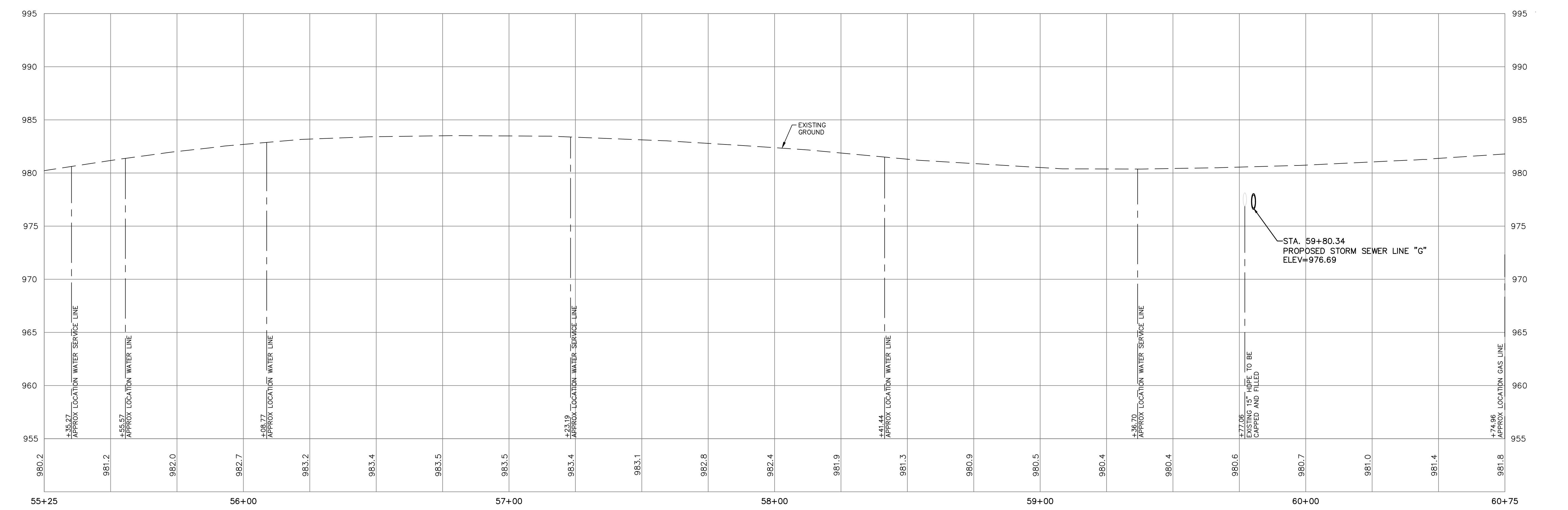
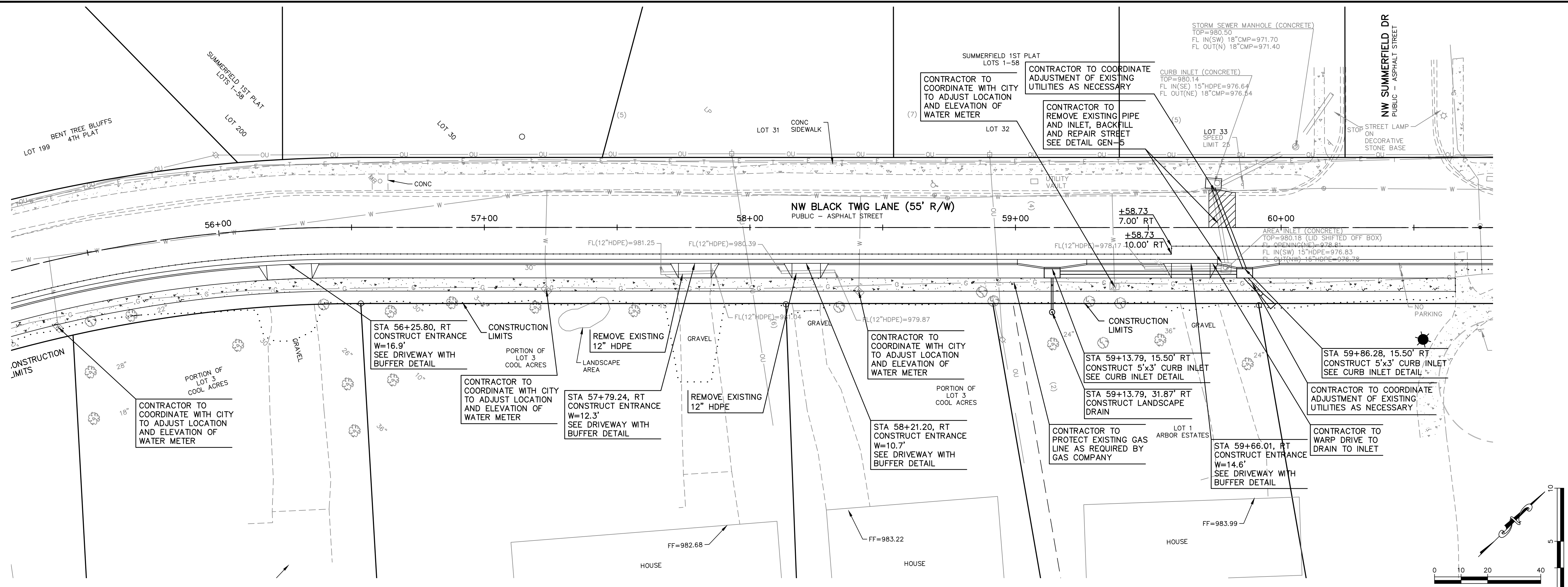
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STREETS OF WEST PRYOR
NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE
LEE'S SUMMIT, MISSOURI

PUBLIC STREET PLANS
NW BLACK TWIG DRIVE - PLAN & PROFILE

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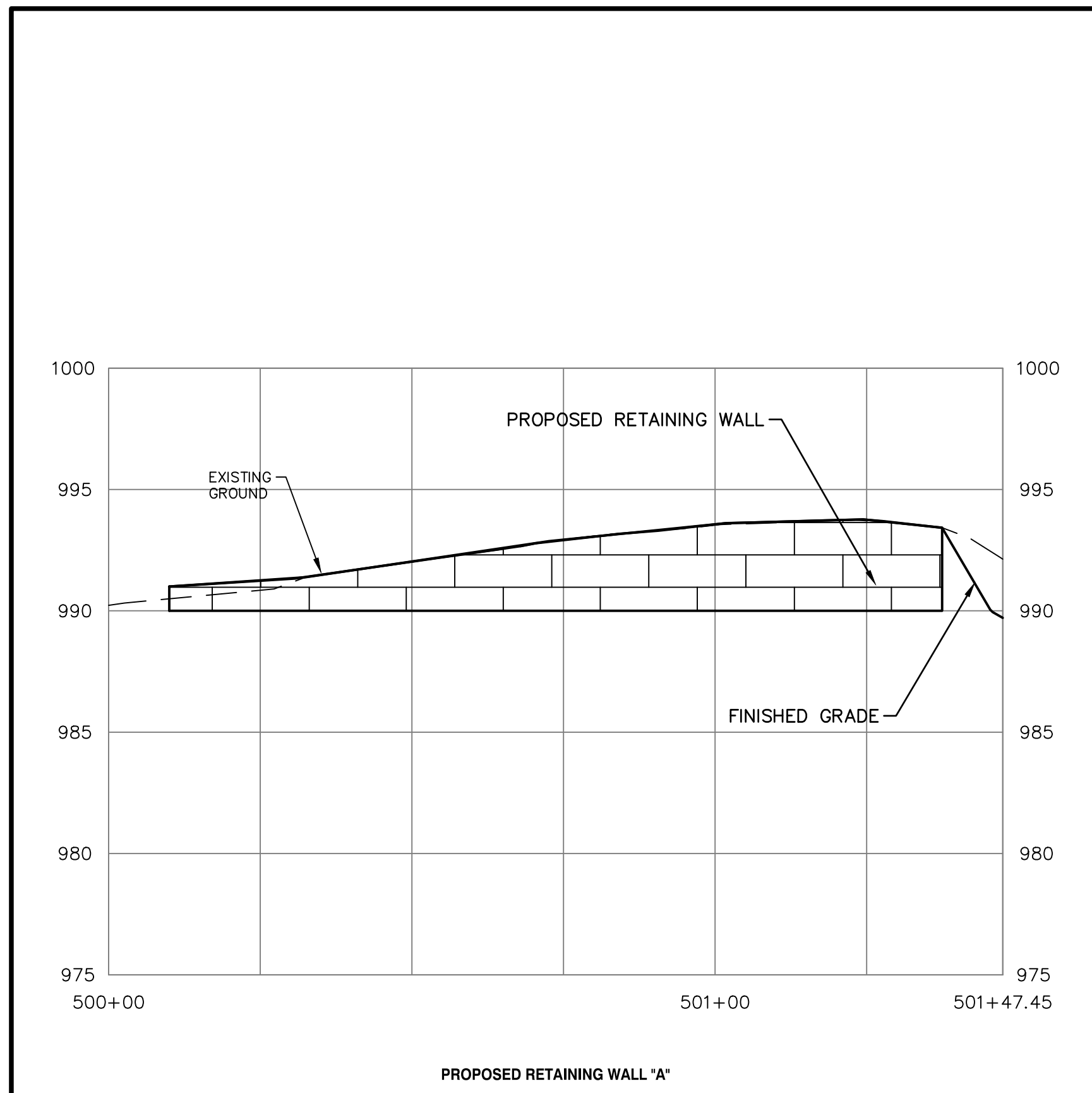
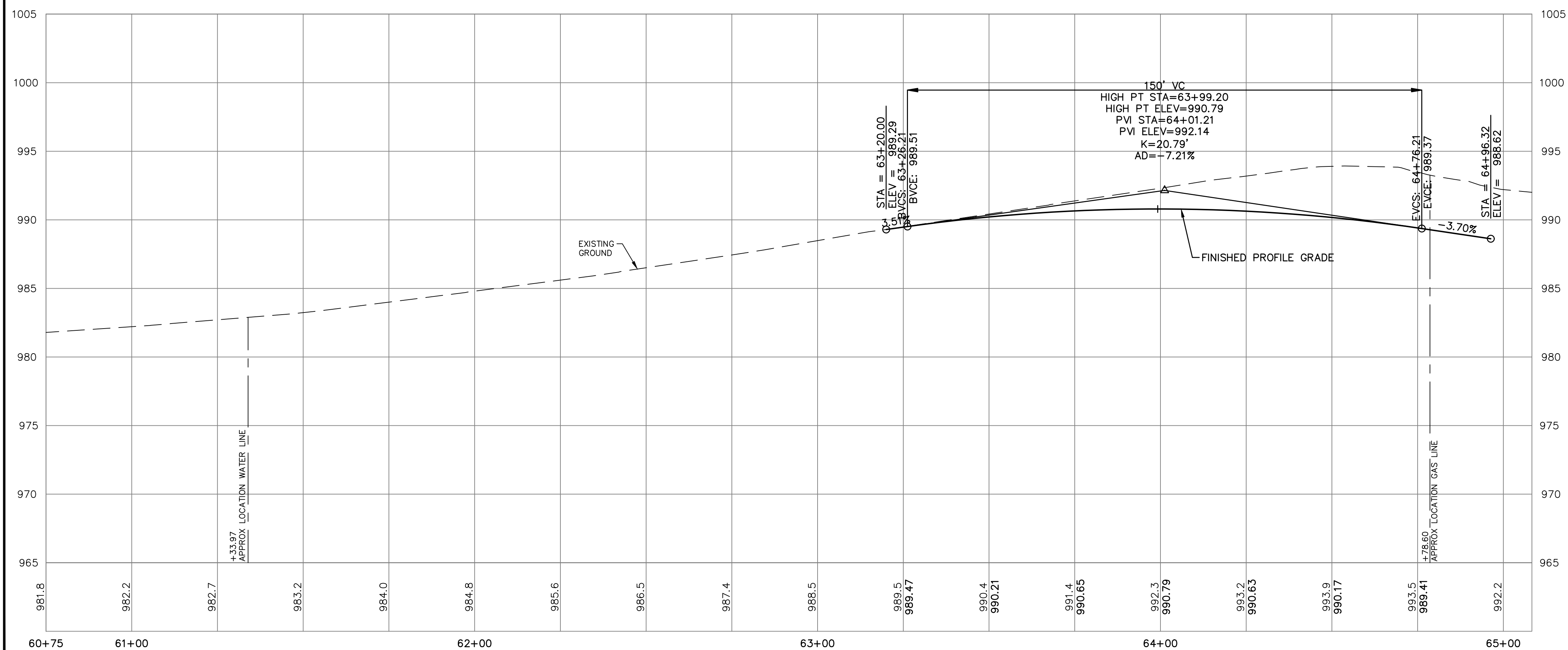
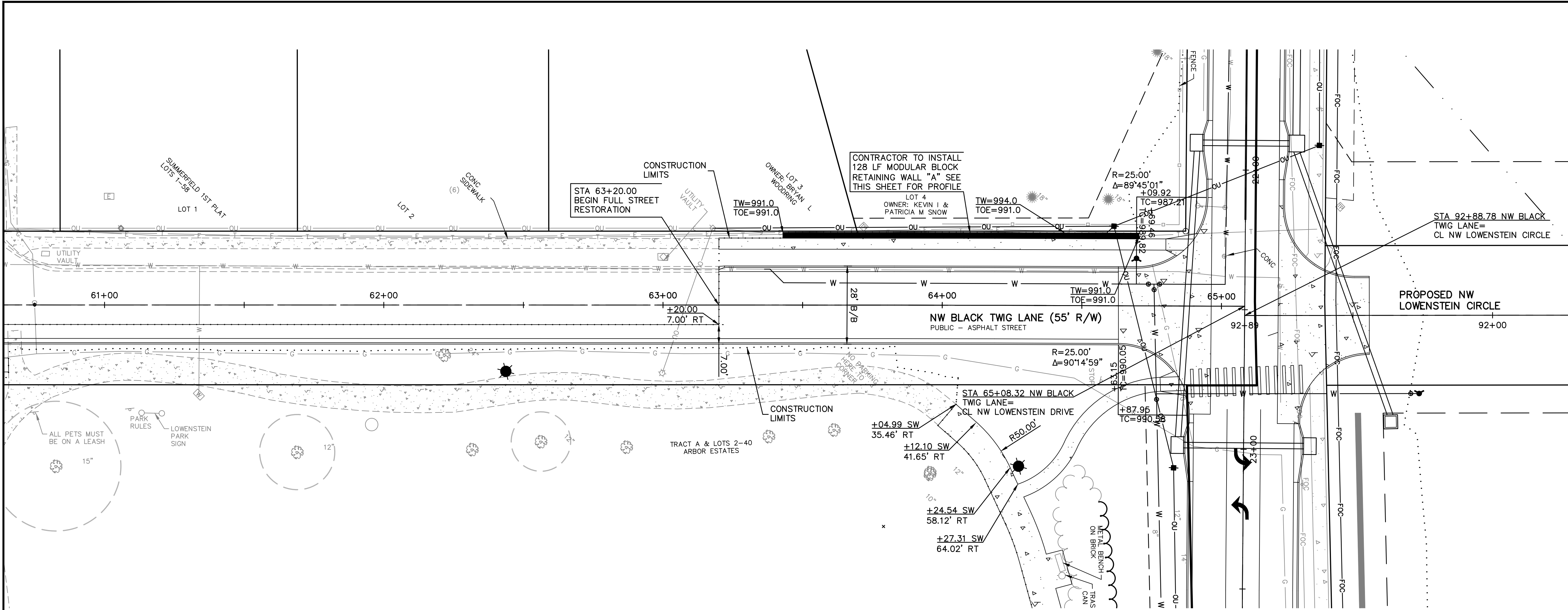
STATE OF MISSOURI
LEON D. OSBOURN
ENGINEER
MO # 021726

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joe@kawvalley.com | www.kawvalley.com

KAW VALLEY ENGINEERING
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842.
EXPIRES 12/31/19

STREETS OF WEST PRYOR
NW/Q NW PRYOR ROAD & NW LOWENSTEIN DRIVE
LEE'S SUMMIT, MISSOURI

PUBLIC STREET PLANS
NW BLACK TWIG DRIVE - PLAN & PROFILE



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PROJ. NO. A14-7061-1	
DESIGNER LDO	DRAWN BY JT/BKR
CFN	7067-1PI STPP
SHEET C-13	REV 0

STATE OF MISSOURI
LEON D. OSBOURN
E-21726
REGISTERED PROFESSIONAL ENGINEER

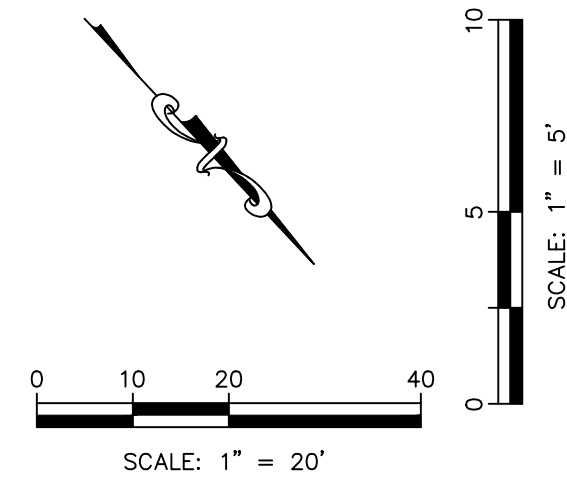
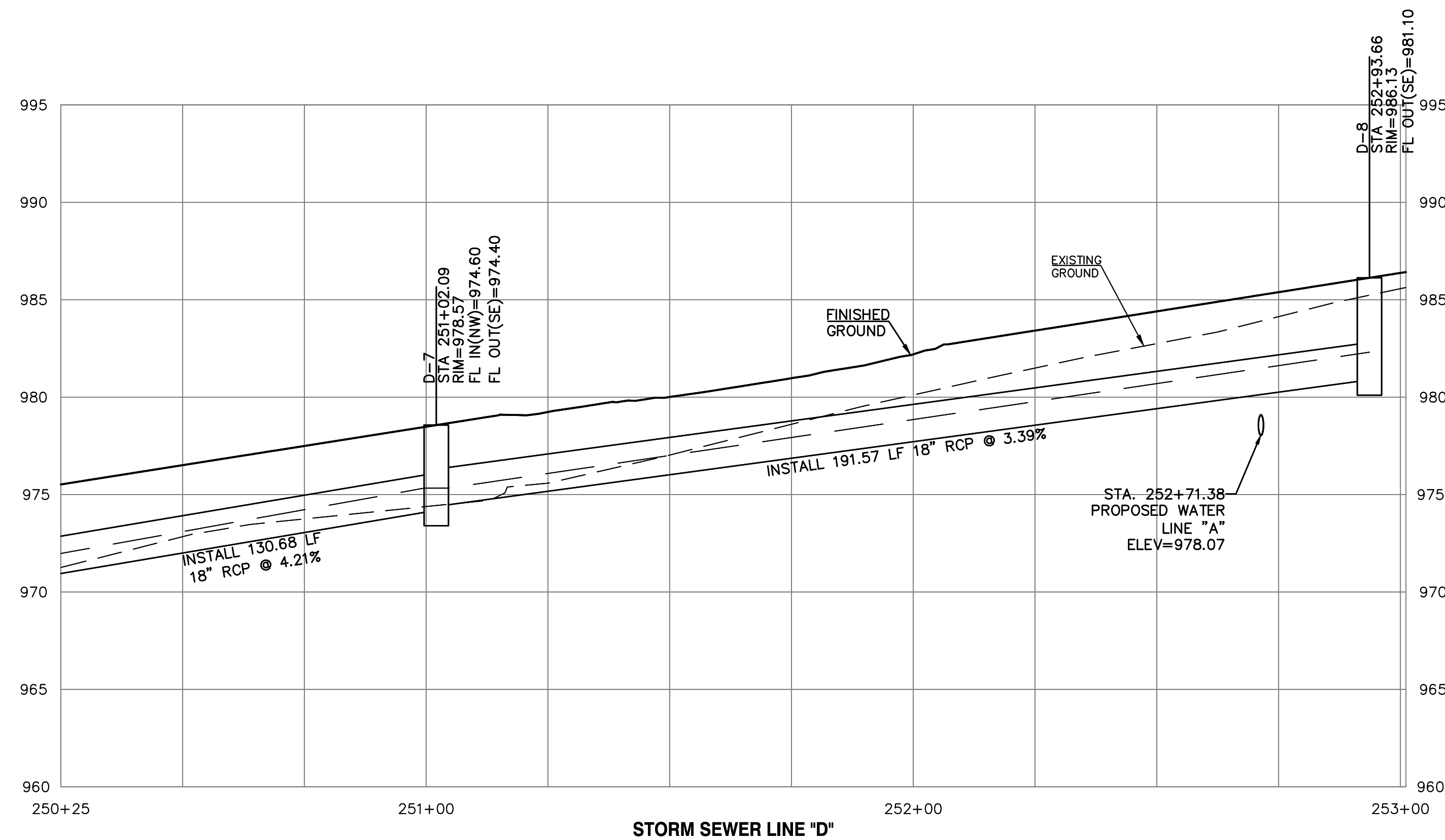
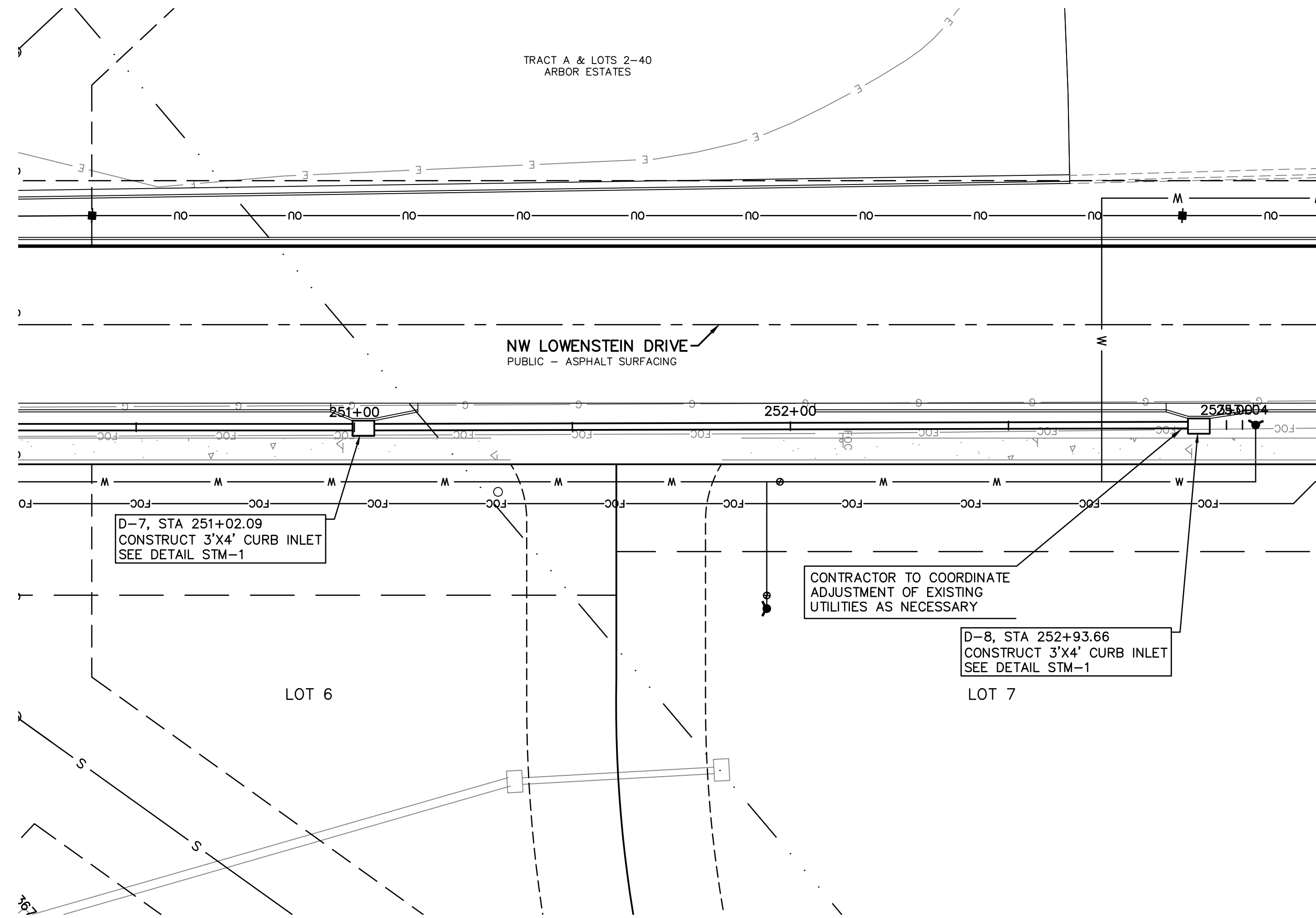
LEON D. OSBOURN
ENGINEER
MO # 021726

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EXPIRES 12/31/19

REV	DATE	DESCRIPTION
0	01-11-19	INITIAL ISSUE
		DSN
		DWN
		CHK

STREETS OF WEST PRYOR
NW/Q NW PRYOR ROAD & NW LOWENSTEIN DRIVE
LEE'S SUMMIT, MISSOURI

PUBLIC STREET PLANS
NW BLACK TWIG DRIVE - PLAN & PROFILE



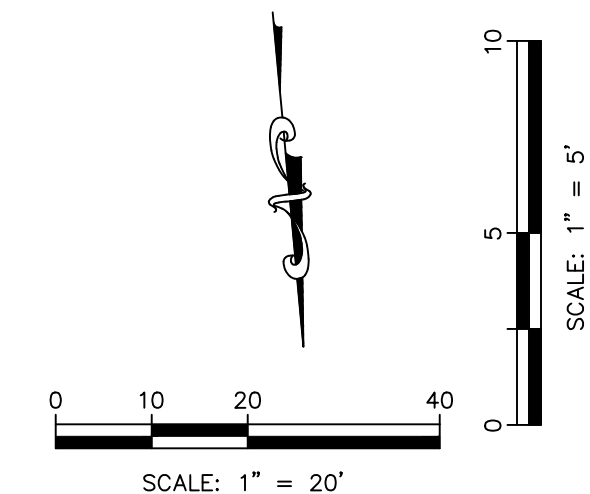
LEON D. OSBOURN ENGINEER MO # 021726	REV	DATE	DESCRIPTION	STREETS OF WEST PRYOR NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE LEE'S SUMMIT, MISSOURI PUBLIC STREET PLANS STORM SEWER PLAN AND PROFILE - LINE D	
	0	01-11-19	INITIAL ISSUE		
			DSN		DWN
			LDO		CHK

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jke@kve.com | www.kve.com

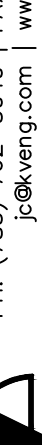
KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19

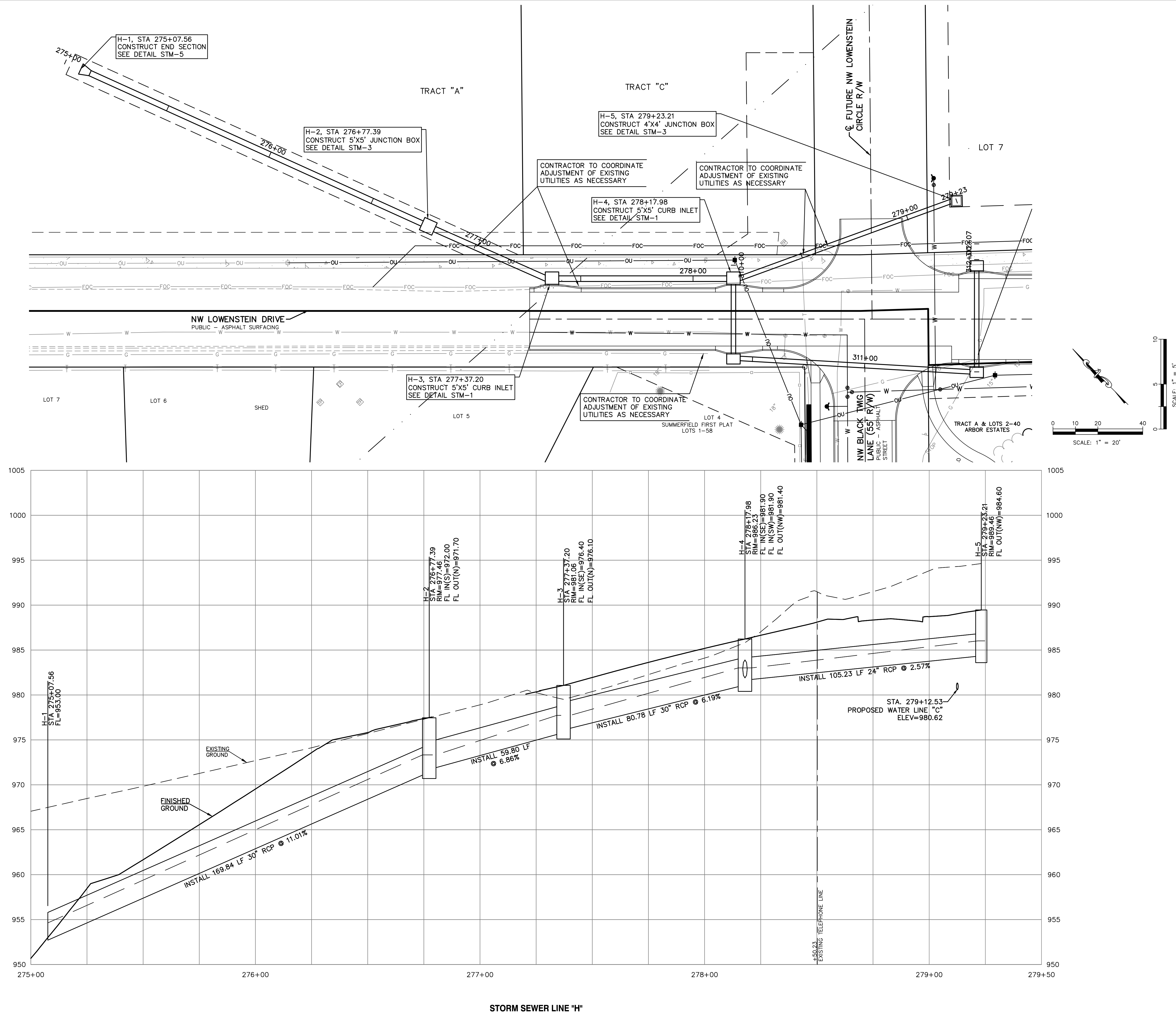
PROJ. NO. A14_7061-1	
DESIGNER LDO	DRAWN BY JT/BKR
CFN	
7067-1PI_DPP	
SHEET C-16	REV 0



STREETS OF WEST PRYOR NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE LEE'S SUMMIT, MISSOURI	PROJ. NO. A14_7061-1		DESIGNER LDO	DRAWN BY JT/BKR	REV 0	DATE 01-11-19	INITIAL	ISSUE	DESCRIPTION	DSN	DWN	CHK
	CFN 7061-1P1	DDP										
PUBLIC STREET PLANS STORM SEWER PLAN AND PROFILE - LINE F	C-17		0									

2319 N. JACKSON P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 PH. (785) 762-5040 FAX (785) 762-7744 joe@kvw.com www.kvw.com		KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19

	
LEON D. OSBOURN ENGINEER MO # 021726	



PROJ. NO. A14_7061-1	
DESIGNER LDO	DRAWN BY JT/BKR
CFN	7067-1PI_DPP
SHEET C-18	REV 0

STREETS OF WEST PRYOR NW/Q NW PRYOR ROAD & NW LOWENSTEIN DRIVE LEE'S SUMMIT, MISSOURI	PUBLIC STREET PLANS STORM SEWER PLAN AND PROFILE - LINE H
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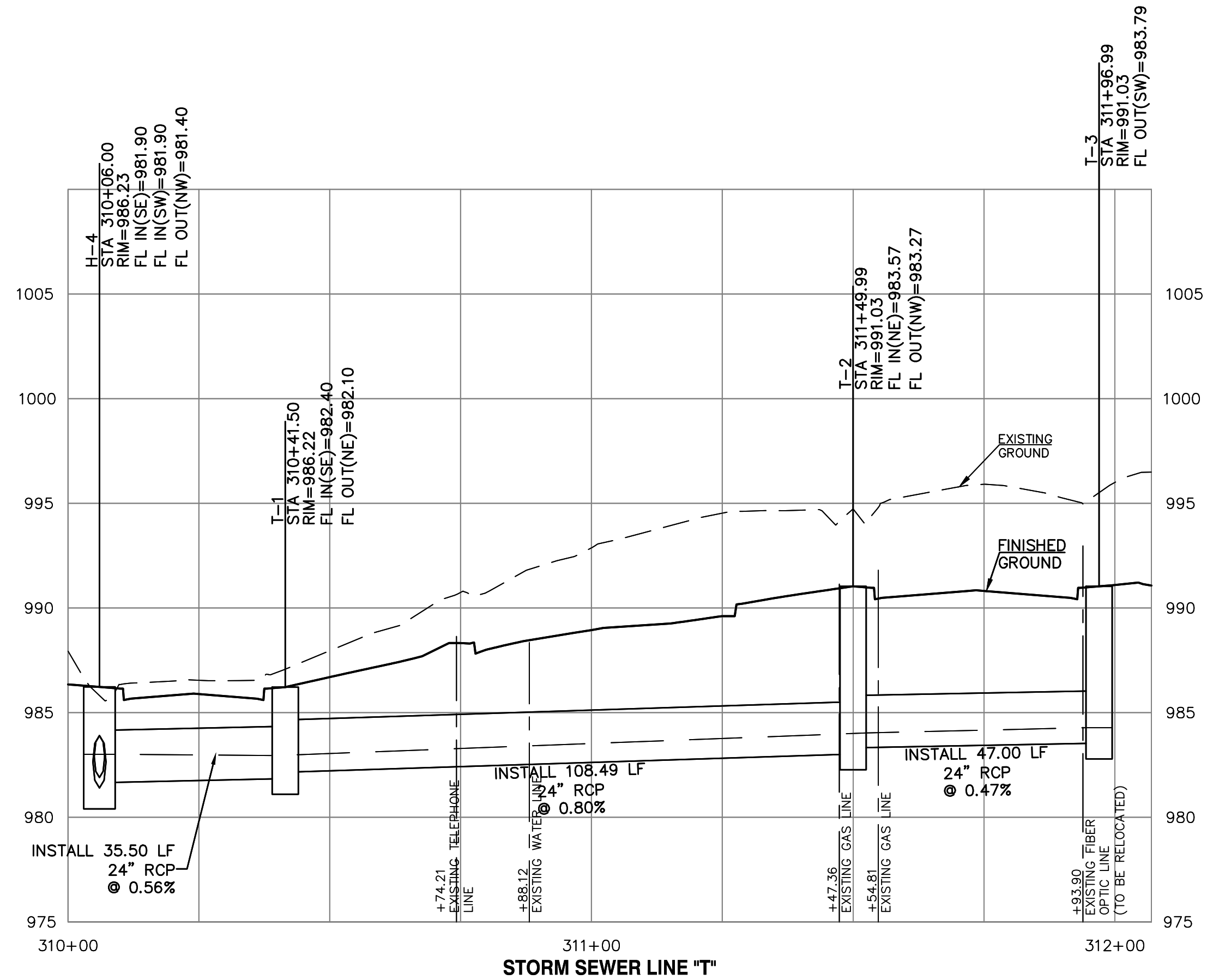
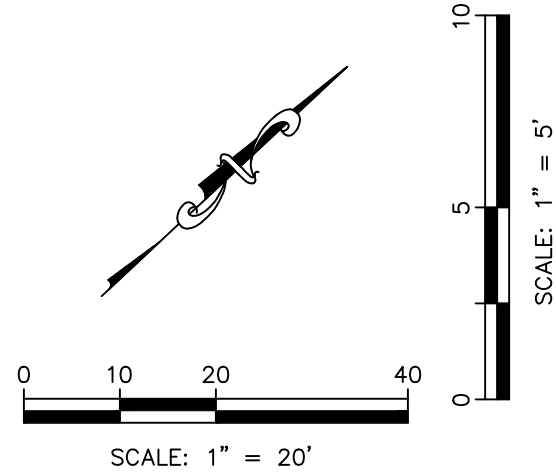
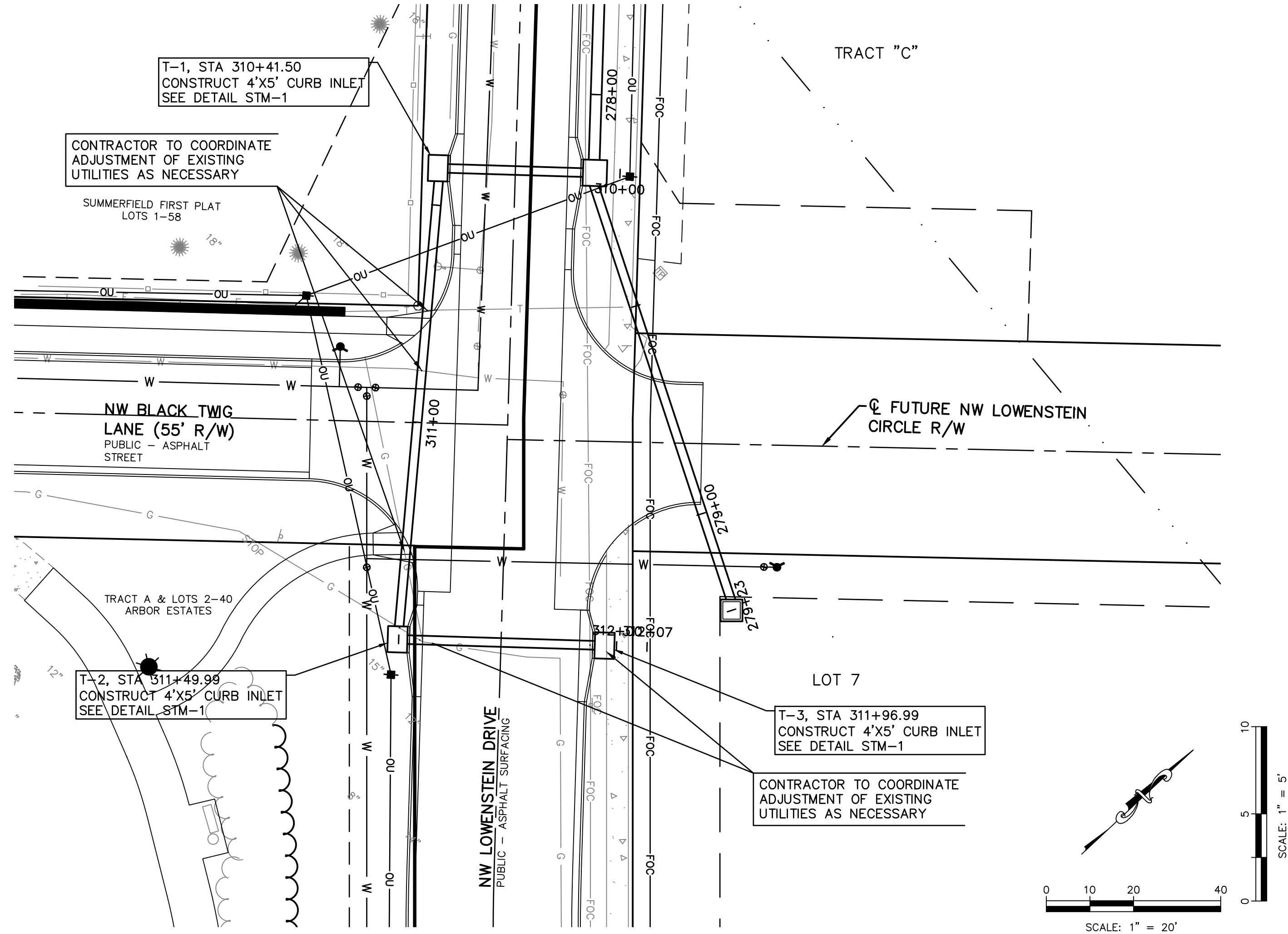
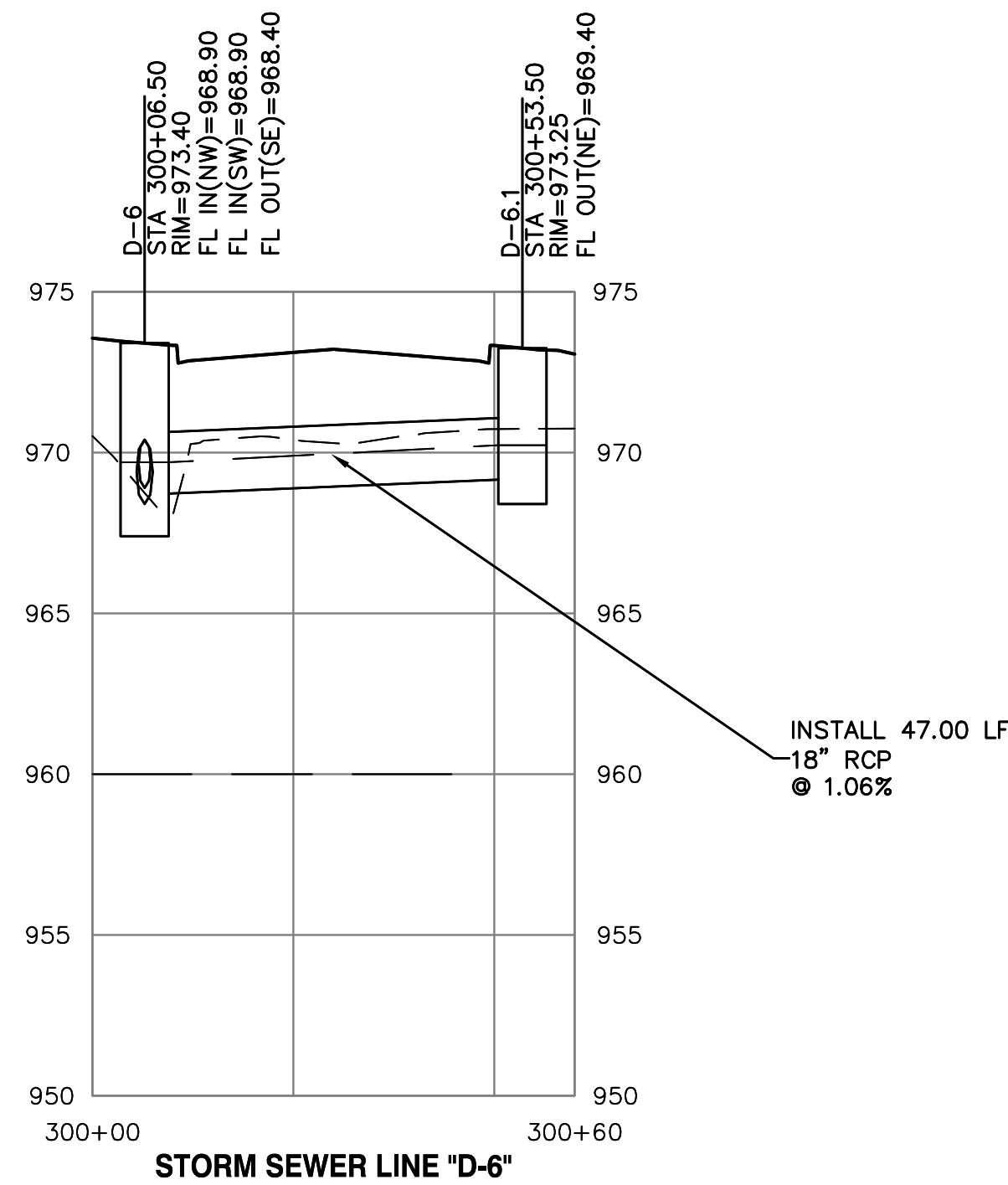
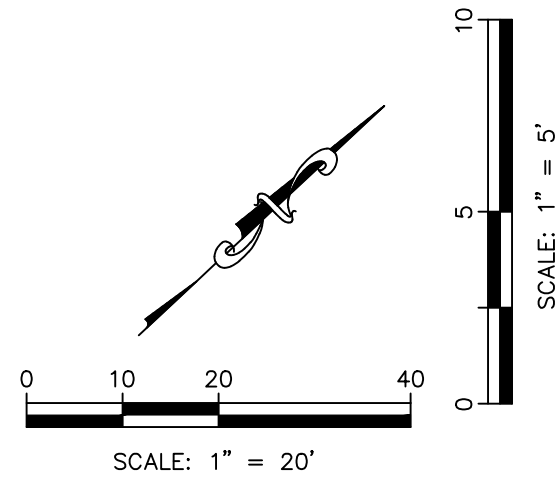
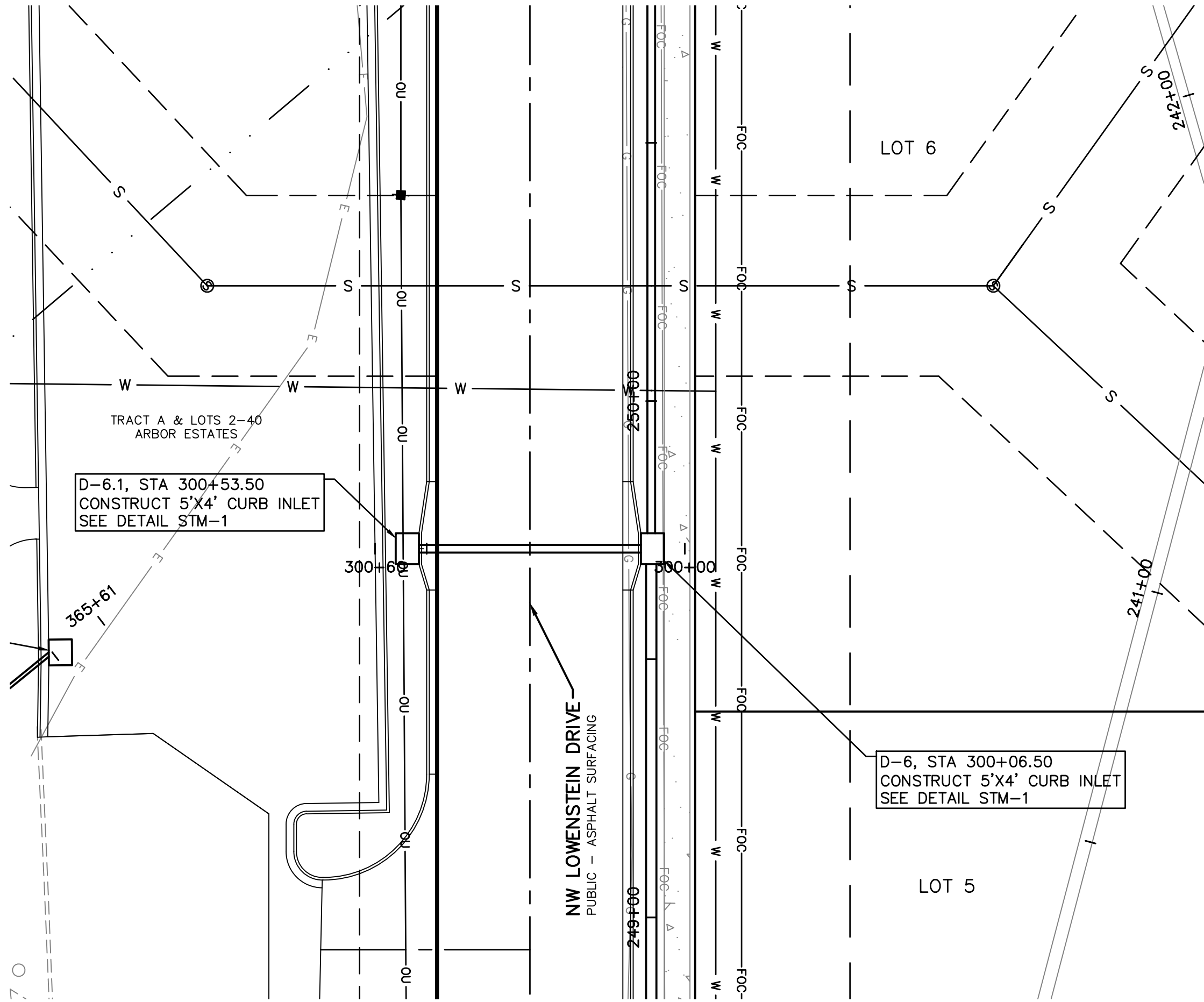
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MO # 021726

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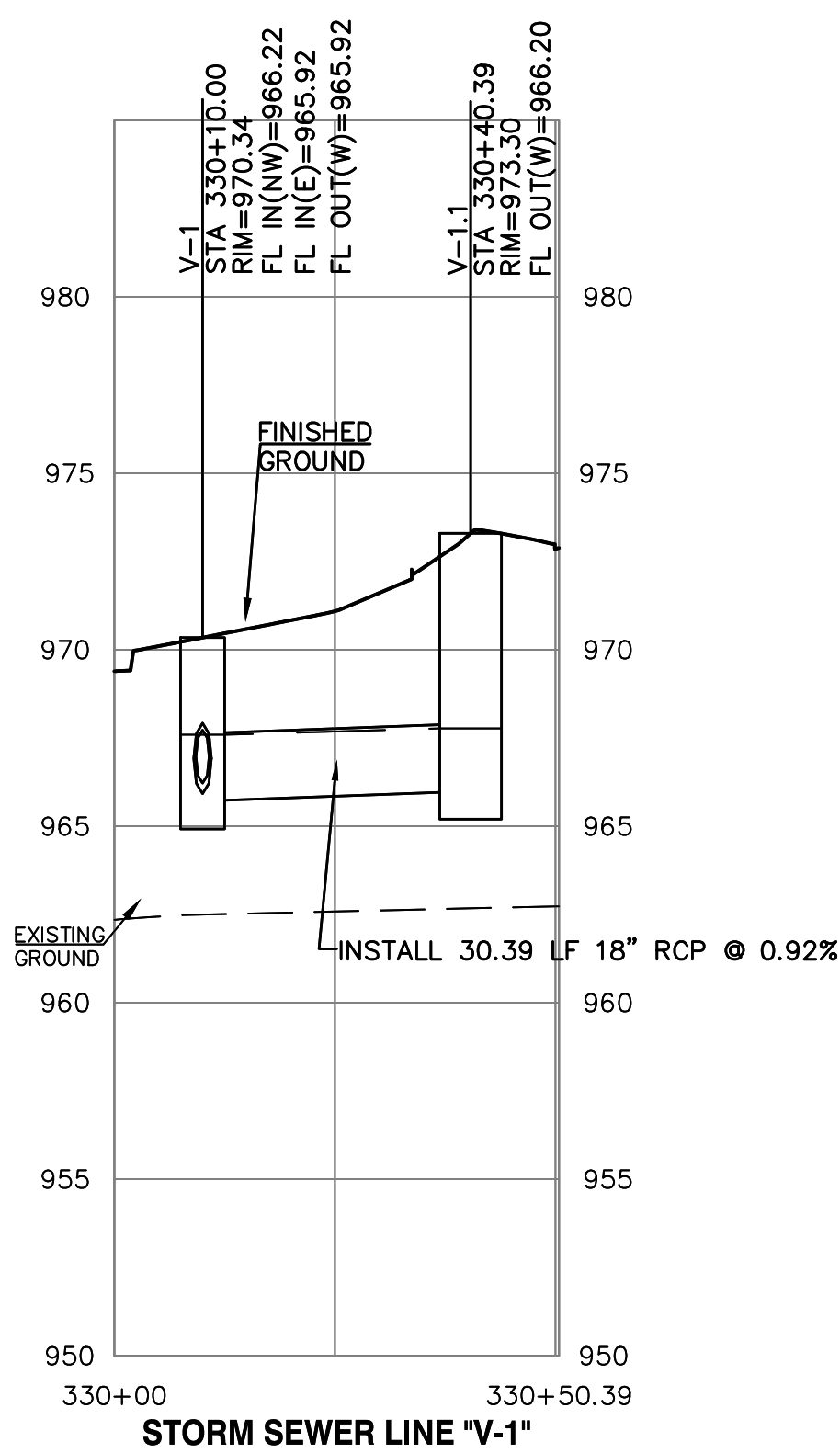
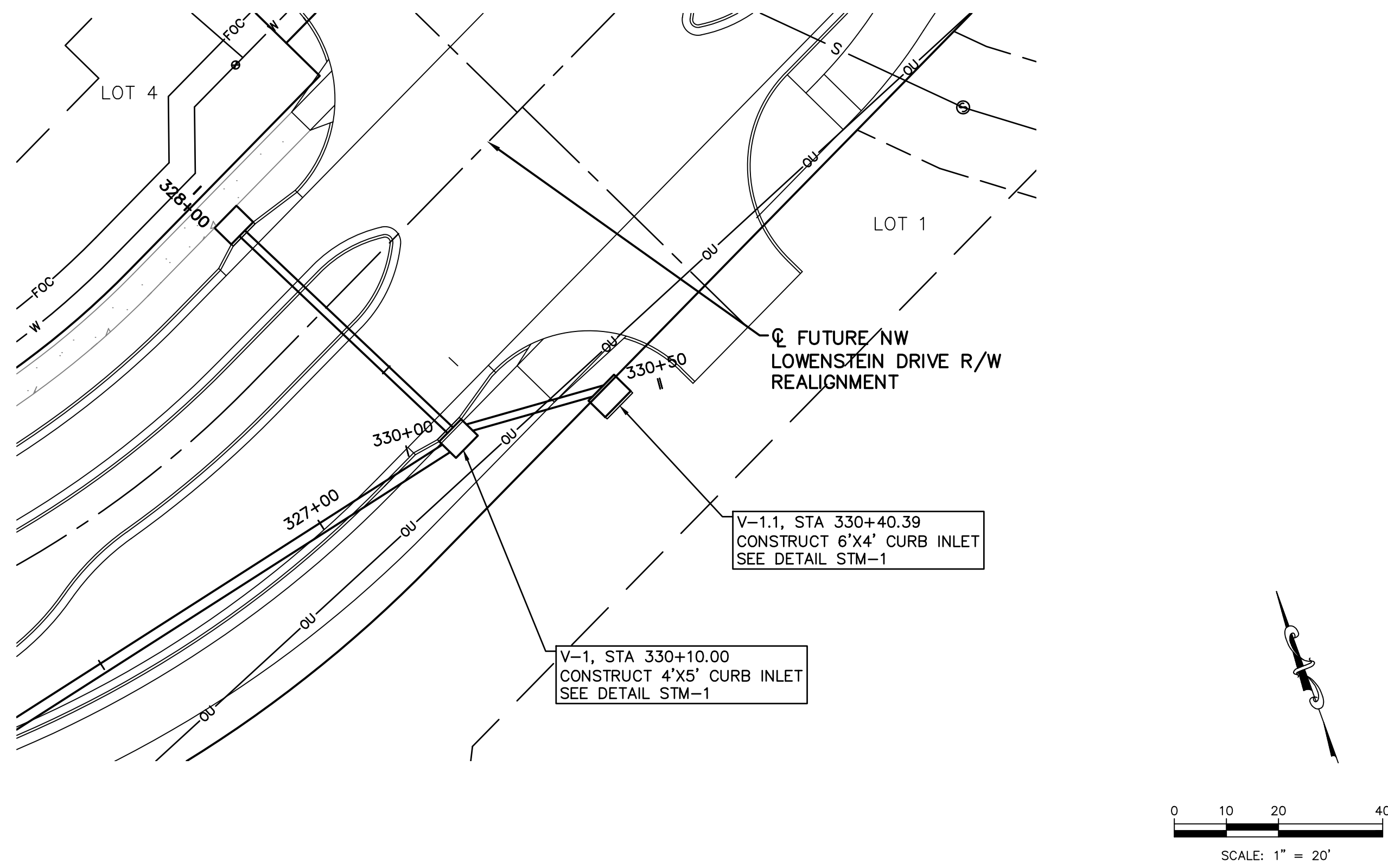
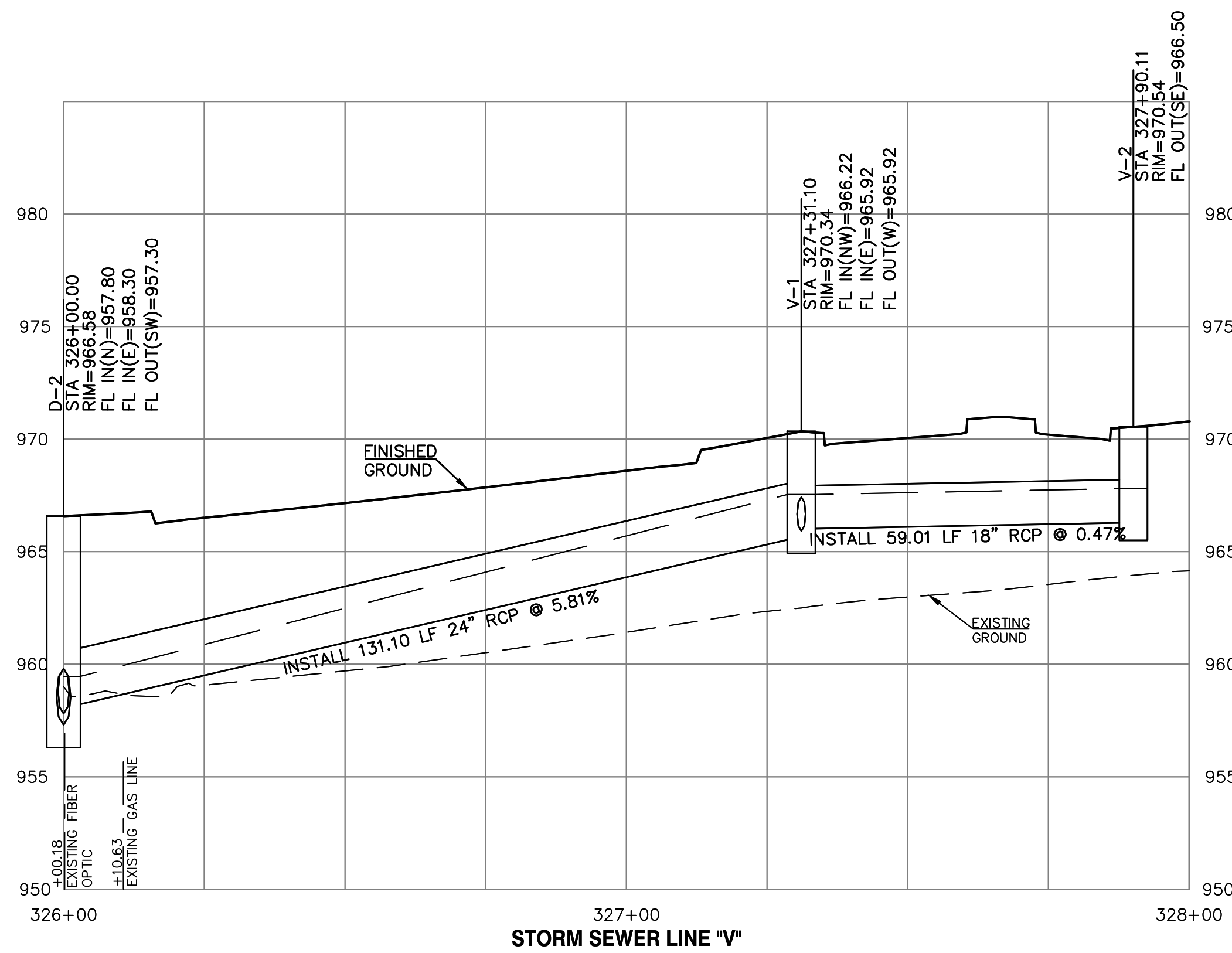
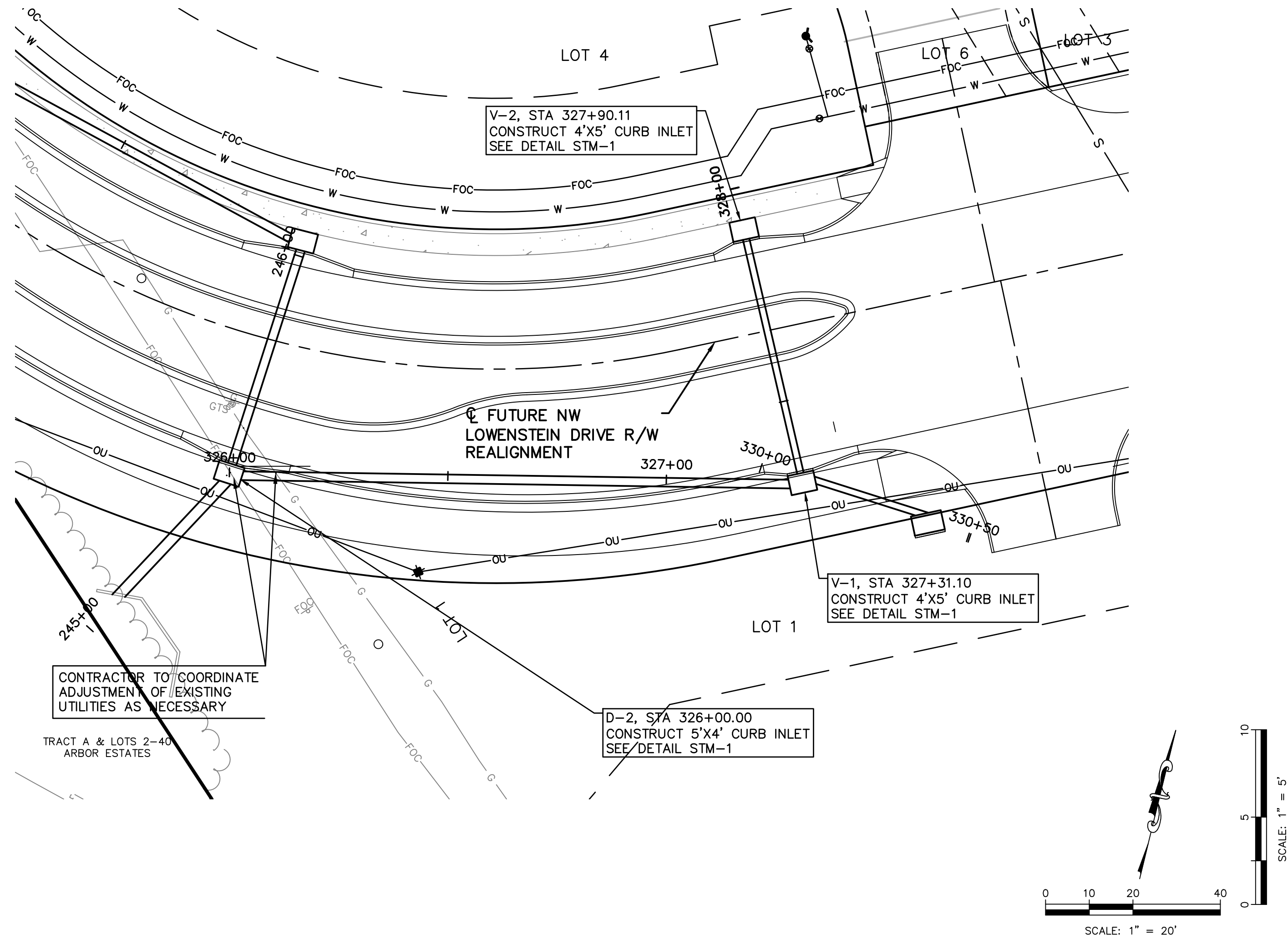
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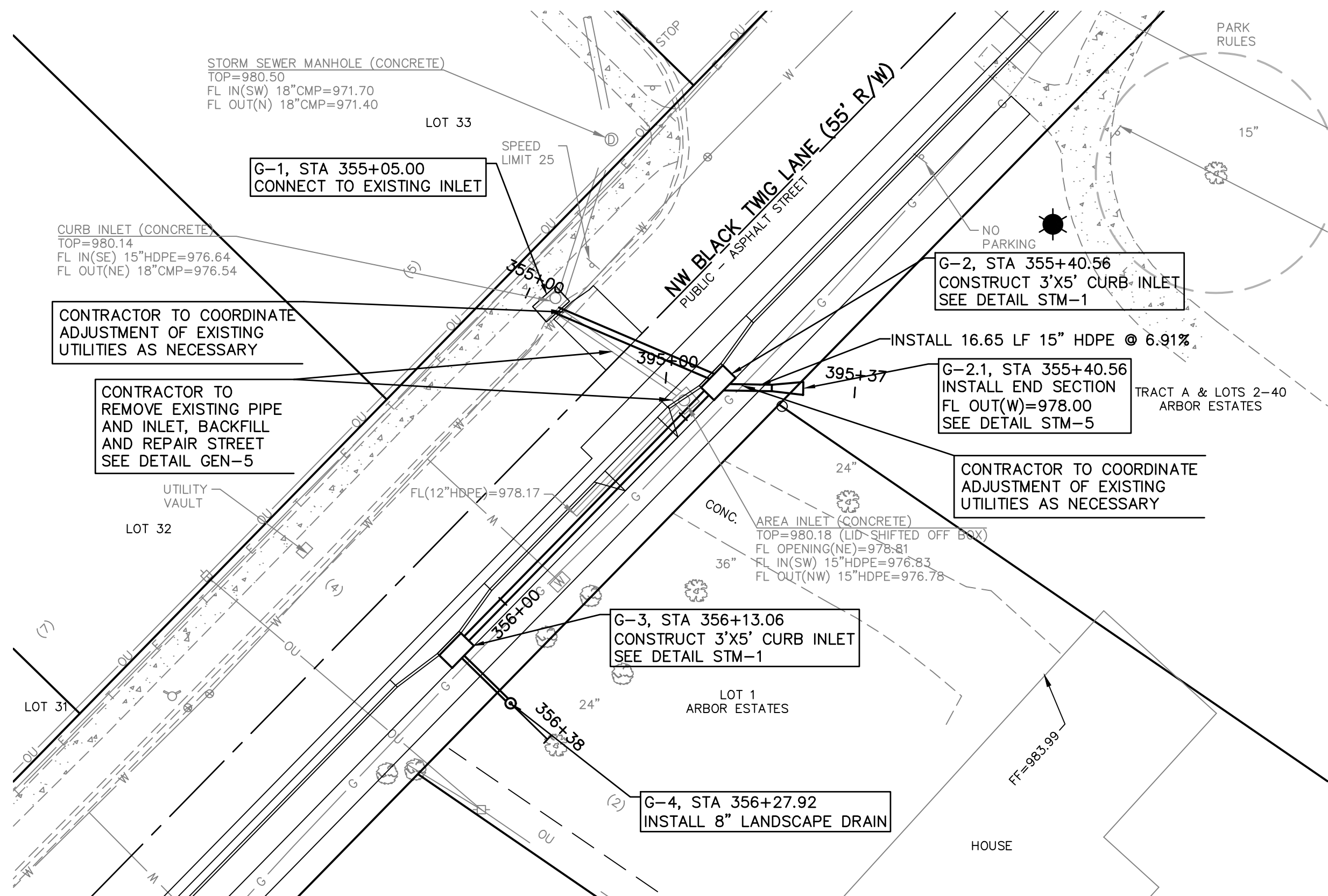
REV	DATE	DESCRIPTION
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		DWN
		CHK



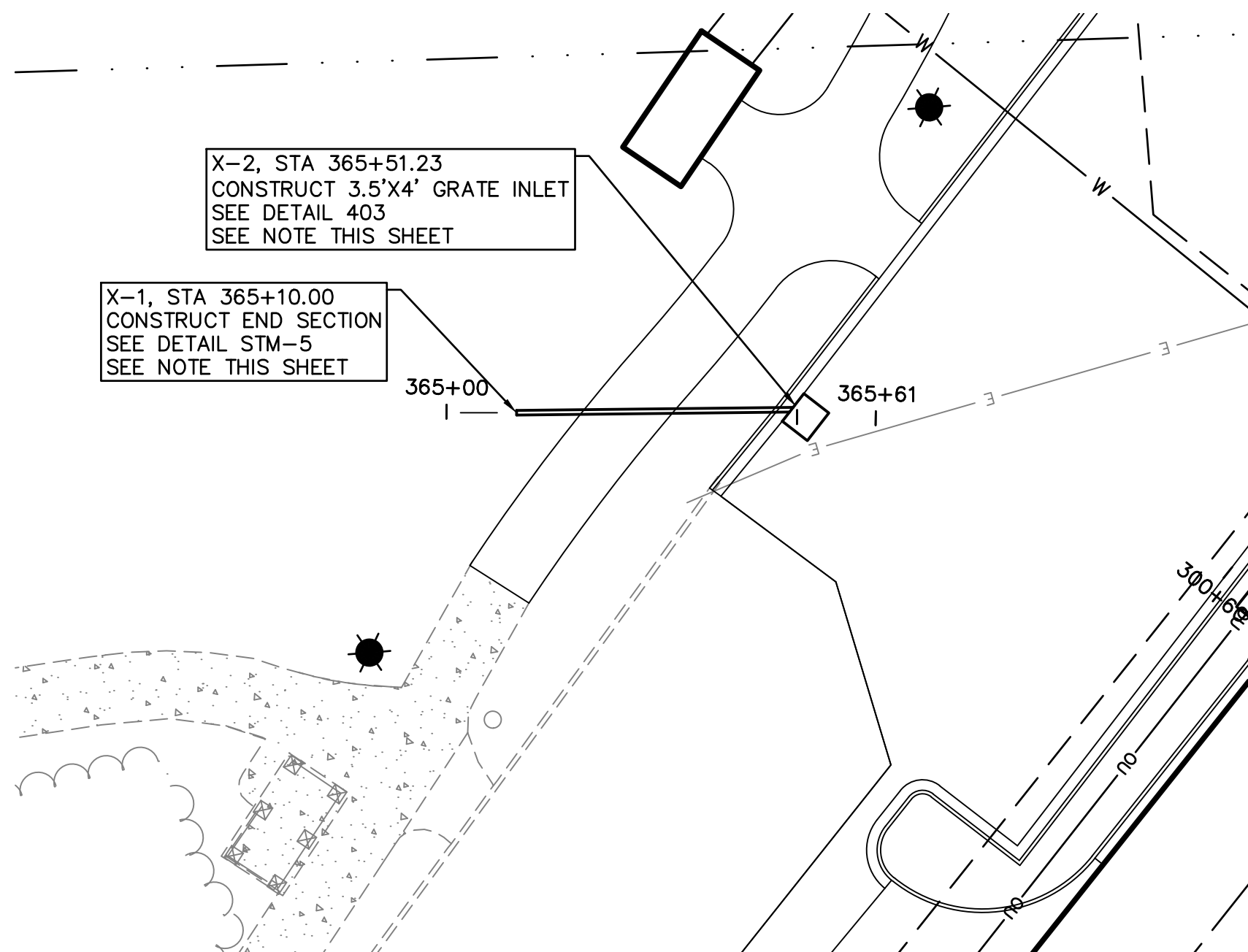
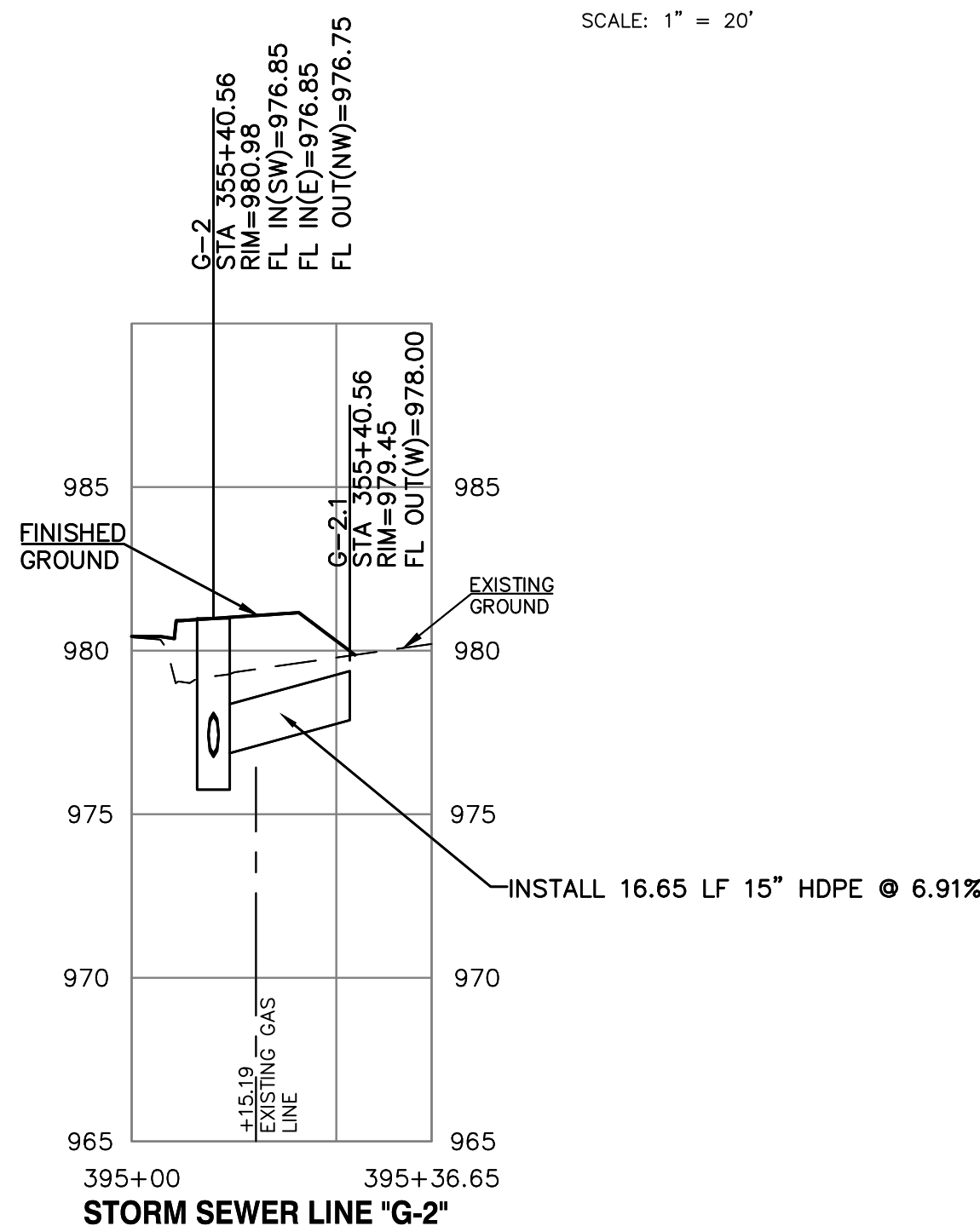
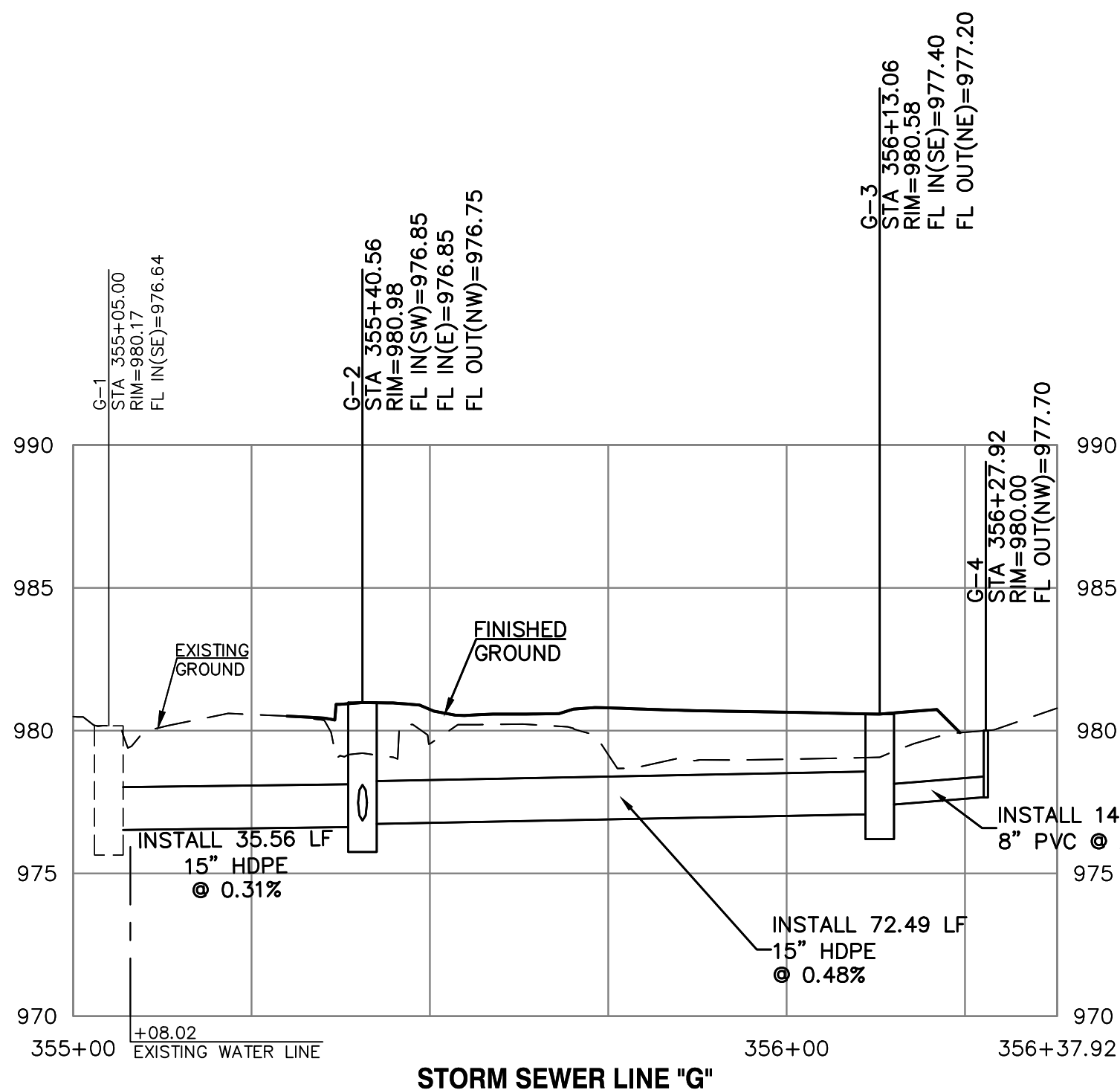
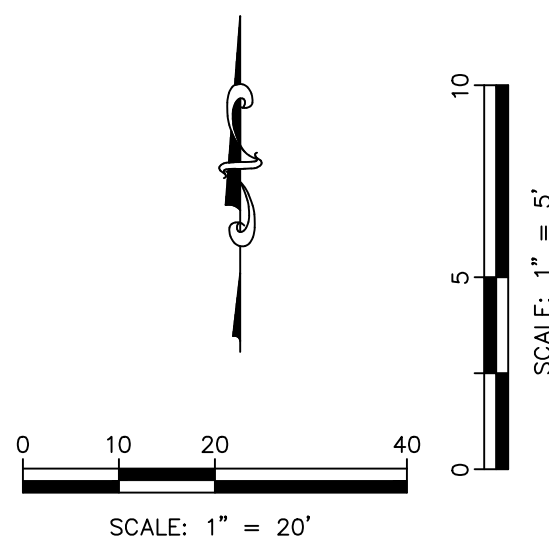
STREETS OF WEST PRYOR NW/2 NW PRYOR ROAD & NW LOWENSTEIN DRIVE LEE'S SUMMIT, MISSOURI		PUBLIC STREET PLANS STORM SEWER PLAN AND PROFILE - LINE D-6 AND T	
PROJ. NO. A14-7061-1		DESIGNER LDO	
SHEET C-19		DRAWN BY JT/BKR	
7067-1PI_DPP		REV	
C-19		0	
KAW VALLEY ENGINEERING 2319 N. JACKSON P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 PH. (785) 762-5040 FAX (785) 762-7744 jke@kaveng.com www.kaveng.com		LEON D. OSBOURN ENGINEER MO # 021726	
KAW VALLEY ENGINEERING KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19			
		REV	DATE
		0	01-11-19
		INITIAL	ISSUE
		DSN	DWN
		JT	LDO
		CHK	CHK



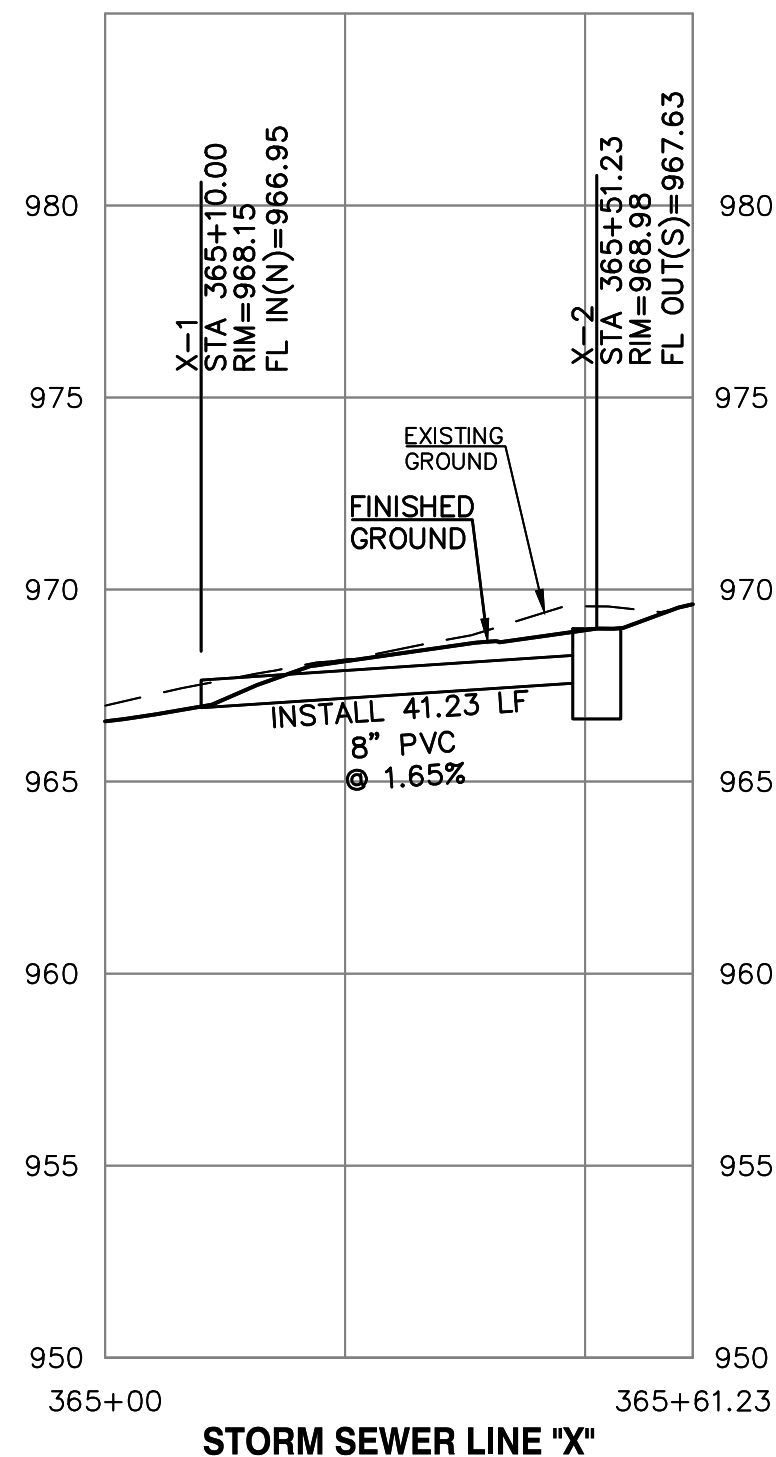
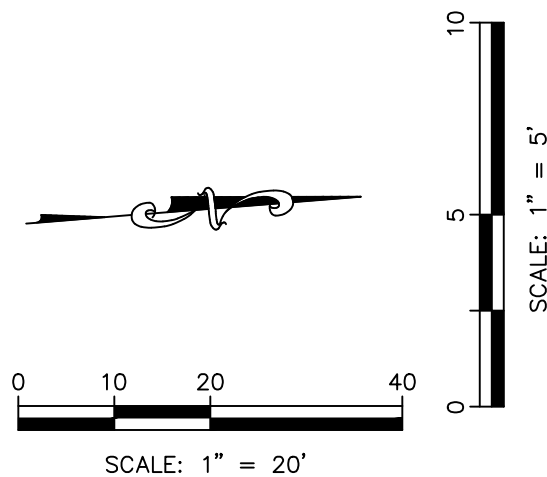
STREETS OF WEST PRYOR NW/4 NW PRYOR ROAD & NW LOWENSTEIN DRIVE LEE'S SUMMIT, MISSOURI		PUBLIC STREET PLANS STORM SEWER PLAN AND PROFILE - LINE V AND V-1	
PROJ. NO. A14_7061-1 DESIGNER LDO DRAWN BY JT/BKR CFN 7067-1PI_DPP SHEET C-20 REV 0			
LEON D. OSBOURN ENGINEER MO # 021726		2319 N. JACKSON P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 PH. (785) 762-5040 FAX (785) 762-7744 jkew@kve.com www.kve.com KAW VALLEY ENGINEERING KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19	
0 10 20 40 SCALE: 1" = 20'		0 10 20 40 SCALE: 1" = 20'	
REV	DATE	DESCRIPTION	CHK
0	01-11-19	INITIAL ISSUE	LDO
			JT
			DWN
			CHK



NOTE: ADJUST CURB LINE ELEVATION
AS NEEDED FOR POSITIVE DRAINAGE
TO EACH INLET



NOTE: INLET AND PIPE SHALL BE SELECTED AND
CONSTRUCTED BY CONTRACTOR TO MATCH
THOSE IN EXISTING PARK PARKING LOT.



STREETS OF WEST PRYOR
NW/Q NW PRYOR ROAD & NW LOWENSTEIN DRIVE
LEE'S SUMMIT, MISSOURI

PUBLIC STREET PLANS
STORM SEWER PLAN AND PROFILE - LINE G AND X

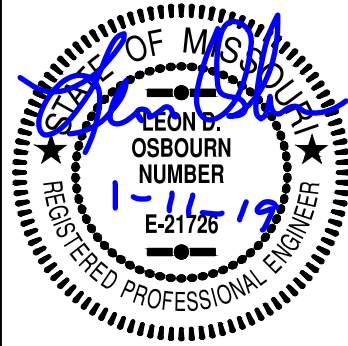
PROJ. NO. A14_7061-1	
DESIGNER LDO	DRAWN BY JT/BKR
CFN 7067-1PI_DPP	
SHEET C-21	REV 0



KAW VALLEY ENGINEERING
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING
SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842.
EXPIRES 12/31/19

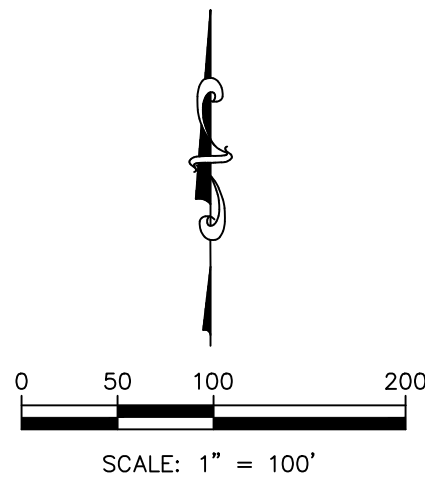
2319 N. JACKSON | P.O. BOX 1304
JUNCTION CITY, KANSAS 66441
PH. (785) 762-5040 | FAX (785) 762-7744
jke@kaveng.com | www.kaveng.com

LEON D. OSBOURN
ENGINEER
MO # 021726



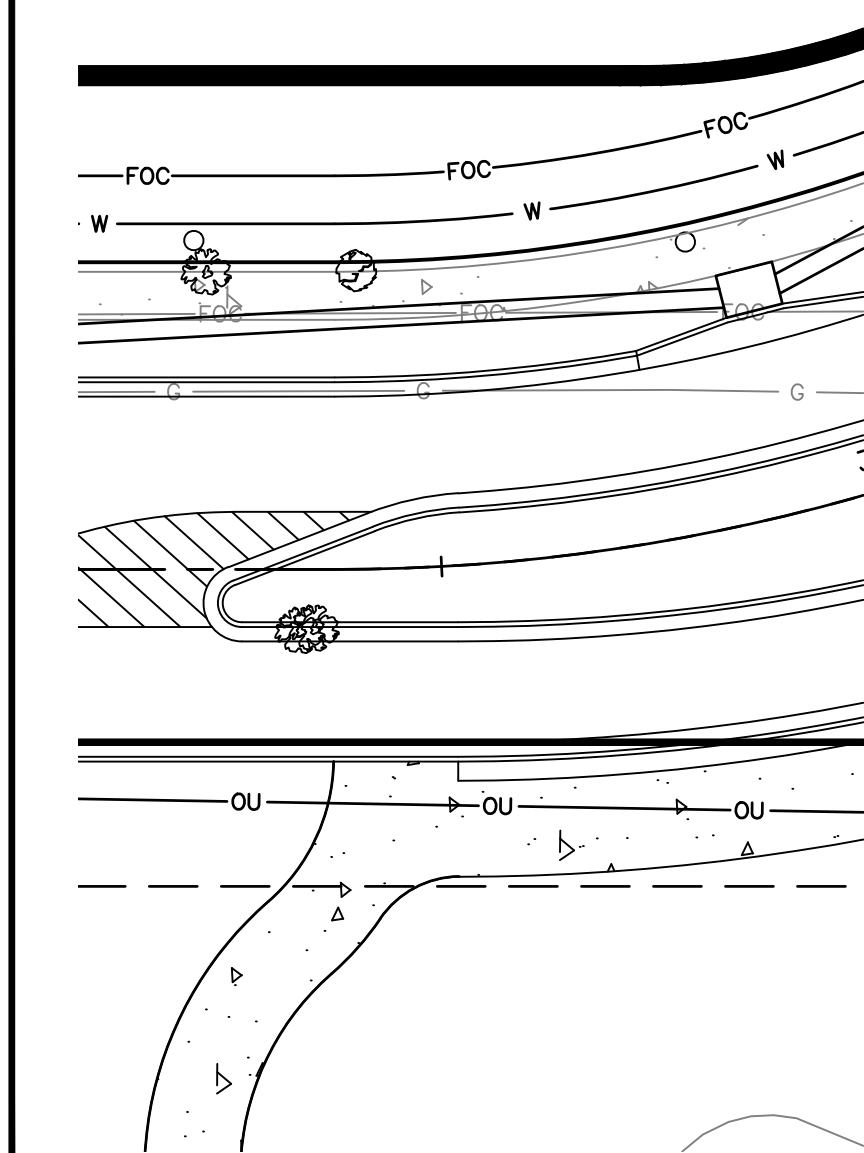
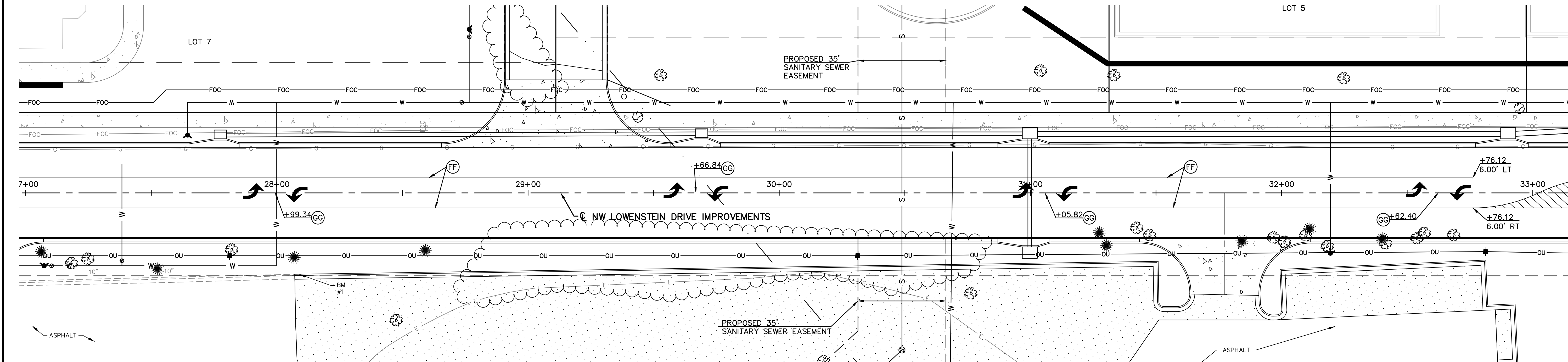
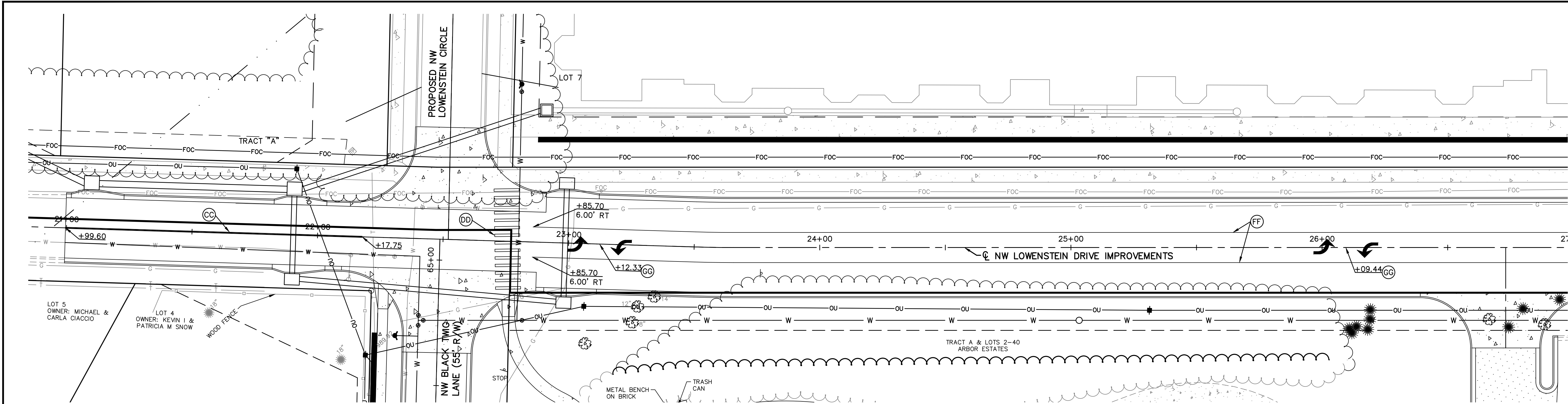
REV	DATE	DESCRIPTION
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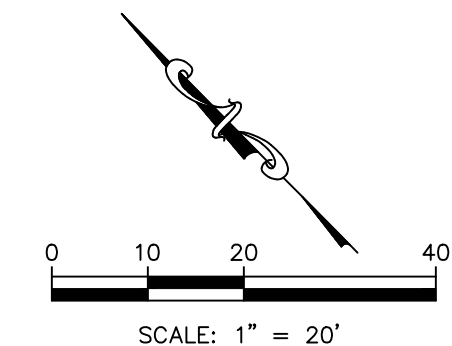
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PROJ. NO.		A14-7061-1	
DESIGNER		DRAWN BY	
LDO		JT/BKR	
CFN			
7067-1PI-ECP			
SHEET		REV	
C-22		0	

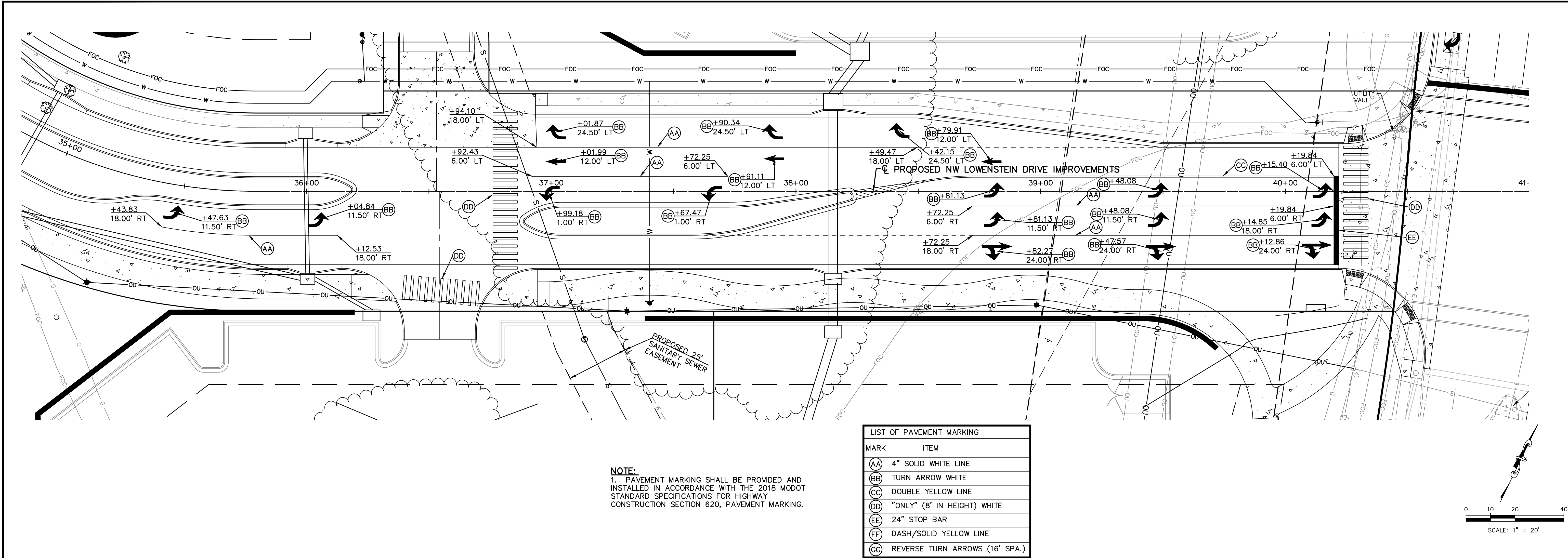


NOTE:
1. PAVEMENT MARKING SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE 2018 MODOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION SECTION 620, PAVEMENT MARKING.

LIST OF PAVEMENT MARKING	
MARK	ITEM
(AA)	4" SOLID WHITE LINE
(BB)	TURN ARROW WHITE
(CC)	DOUBLE YELLOW LINE
(DD)	"ONLY" (8" IN HEIGHT) WHITE
(EE)	24" STOP BAR
(FF)	DASH/SOLID YELLOW LINE
(GG)	REVERSE TURN ARROWS (16' SPA.)

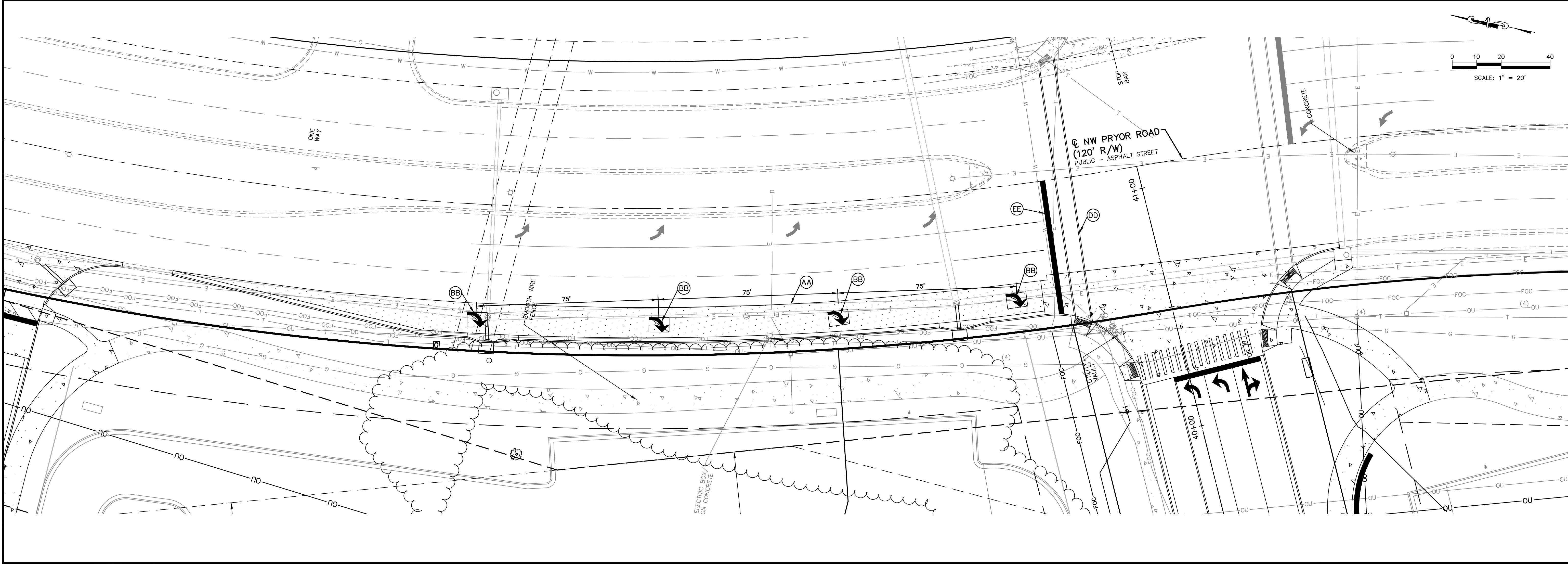


2319 N. JACKSON P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 PH. (785) 762-5040 FAX (785) 762-7744 www.kawvalley.com www.kawvalley.com	LEON D. OSBOURN ENGINEER MO # 021726	
STREETS OF WEST PRYOR NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE LEE'S SUMMIT, MISSOURI PUBLIC STREET PLANS PAVEMENT MARKING & SIGNING PLANS	PROJ. NO. A14_7061-1 DESIGNER LDO DRAWN BY JT/BKR CFN 7067-1PI_PMP SHEET C-23 REV 0	REV 01-11-19 DATE DESCRIPTION DSN DWN CHK LDO JT LDO



NOTE:
 1. PAVEMENT MARKING SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE 2018 MODOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION SECTION 620, PAVEMENT MARKING.

MARK	ITEM
AA	4" SOLID WHITE LINE
BB	TURN ARROW WHITE
CC	DOUBLE YELLOW LINE
DD	"ONLY" (8' IN HEIGHT) WHITE
EE	24" STOP BAR
FF	DASH/SOLID YELLOW LINE
GG	REVERSE TURN ARROWS (16' SPA.)



REV	DATE	DESCRIPTION
0	01-11-19	INITIAL ISSUE
		DSN DWN CHK

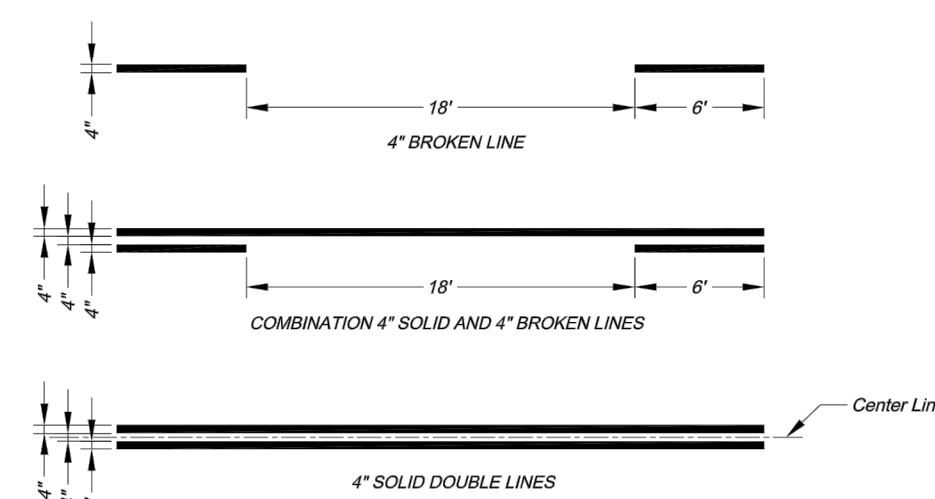
2319 N. JACKSON | P.O. BOX 1304
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 PH. (785) 762-5040 | FAX (785) 762-7744
 jk@kvweng.com | www.kvweng.com

KAW VALLEY ENGINEERING

STREETS OF WEST PRYOR
 NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE
 LEE'S SUMMIT, MISSOURI

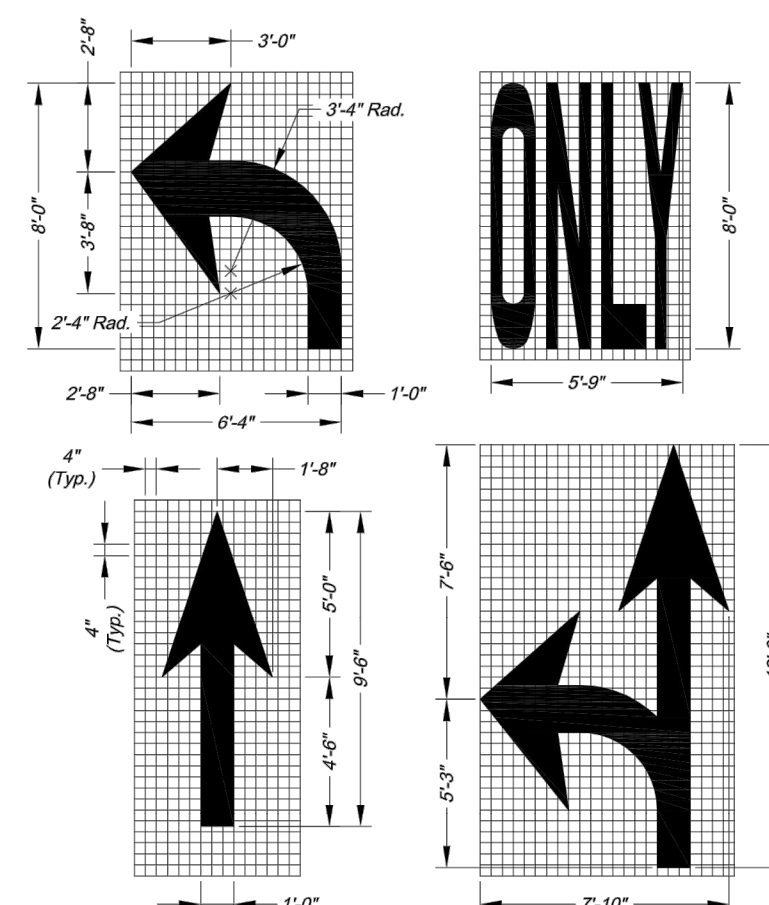
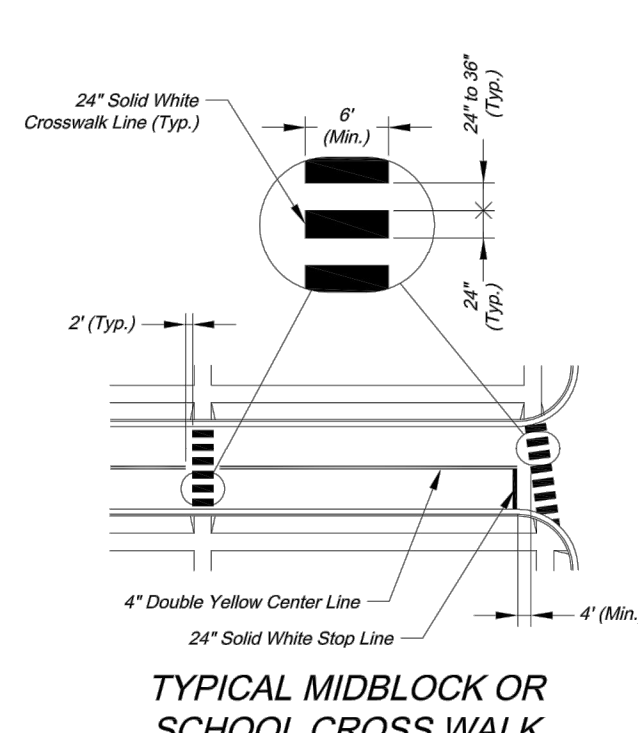
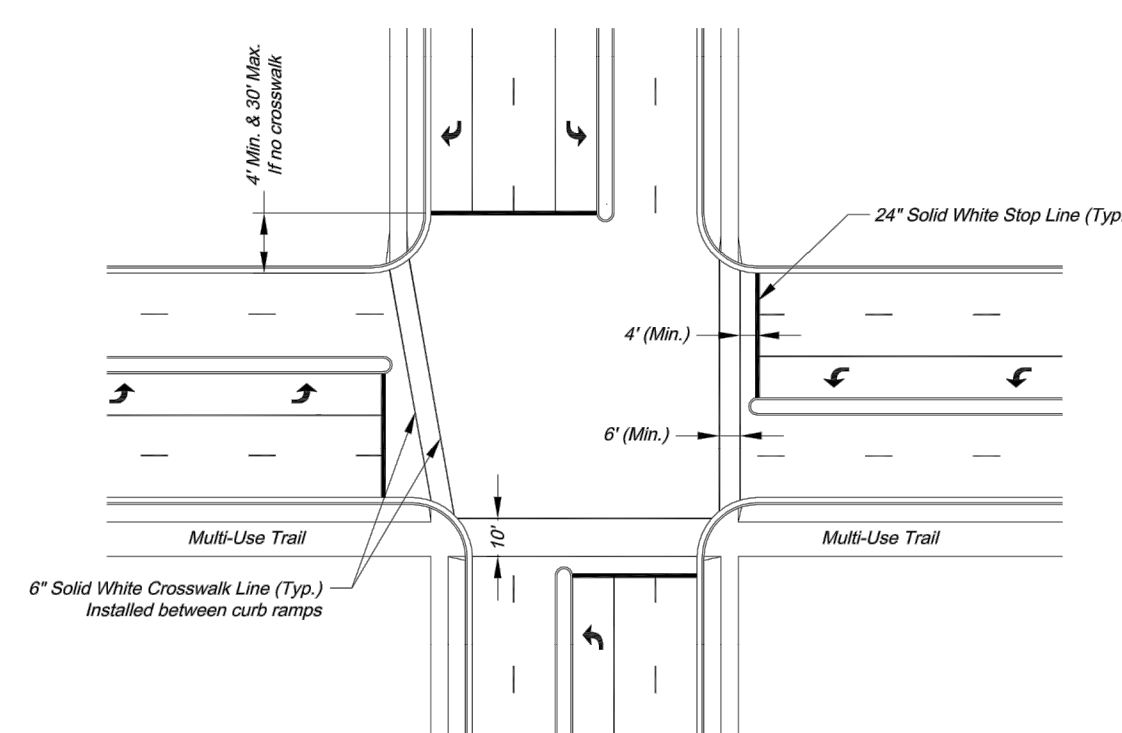
PUBLIC STREET PLANS
 PAVEMENT MARKING & SIGNING PLANS

PROJ. NO.	A14-7061-1
DESIGNER	LDO
DRAWN BY	JT/BKR
CFN	7067-1PI_PMP
SHEET	C-24
REV	0



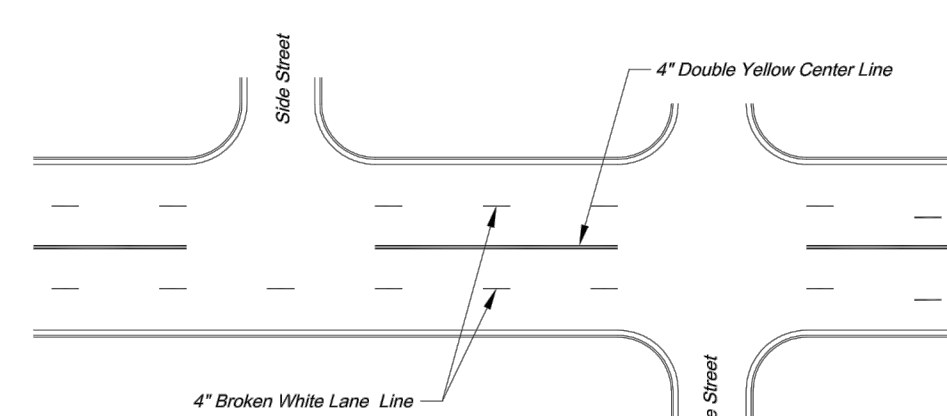
NOTES:

1. All edge line, center line, and lane line pavement markings shall be 4" wide unless otherwise noted.
2. Edge lines shall be continuous solid white or yellow lines. Right side edge lines shall be solid white. Median or left side edge lines on divided roadways are to be solid yellow. Edge lines and center lines shall be continuous across driveways.



NOTES:

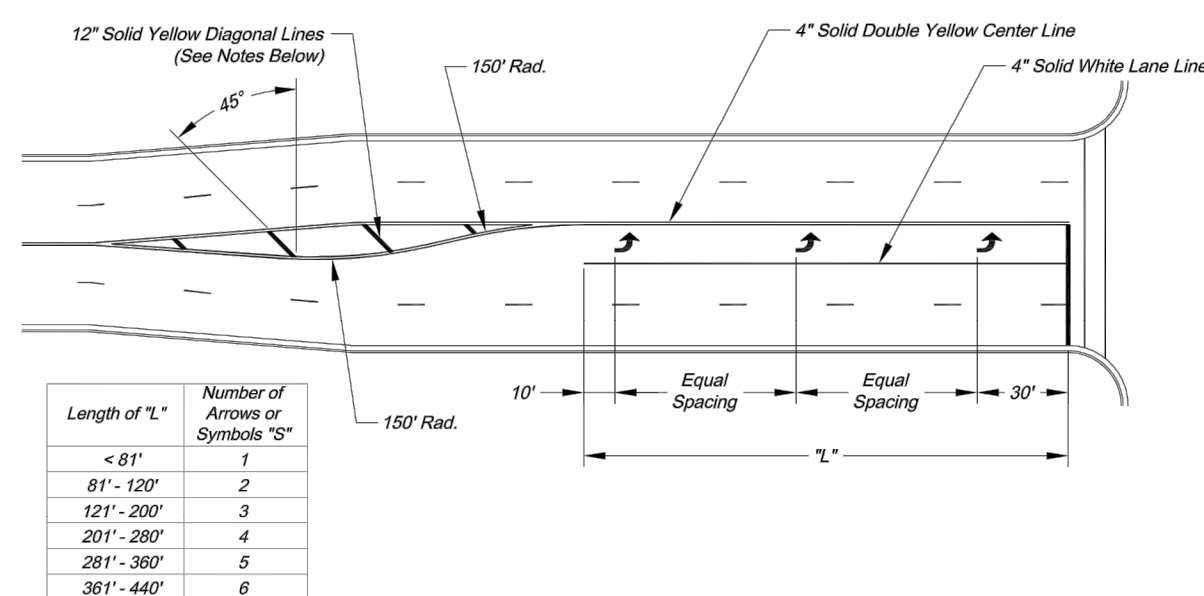
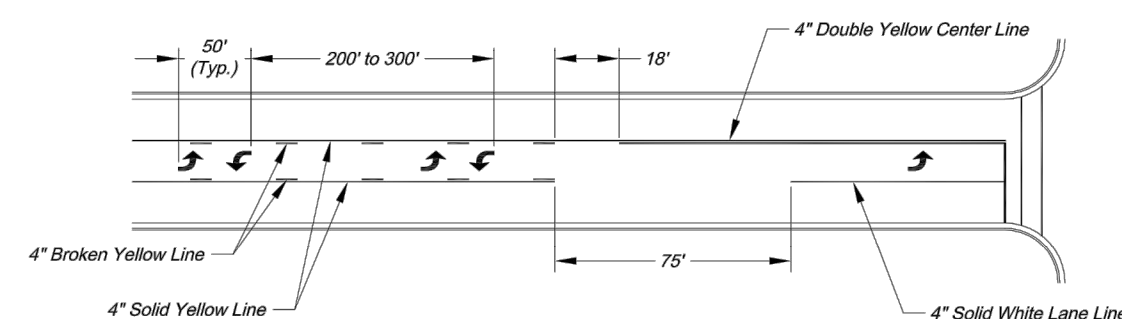
1. All arrow and symbol markings shall be white, and shall be centered in their respective traffic lanes.
2. Right-turn and combination right-turn/straight arrows are reverse of arrows shown.



*TYPICAL MARKINGS FOR FOUR-LANE
UNDIVIDED ROADWAY*

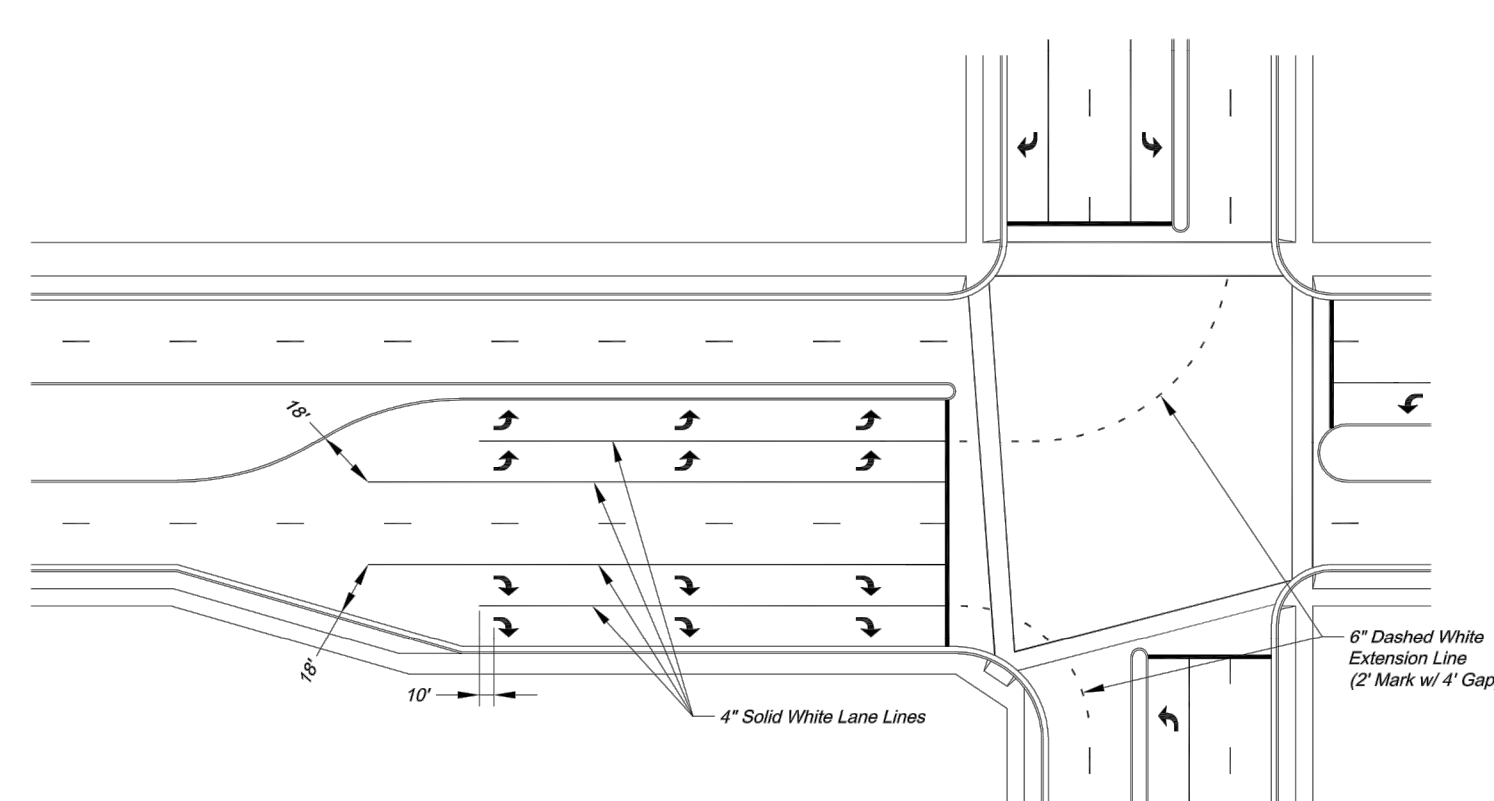
PAVEMENT MARKING GENERAL NOTES:

1. All pavement markings shall be in accordance with the latest edition of the *Manual on Uniform Traffic Control Devices (MUTCD)*
2. All words and symbols shall conform to the latest edition of *Standard Alphabets for Highway Signs and Pavement Markings* as promulgated by the U.S. Department of Transportation, Federal Highway Administration
3. Pavement markings, either temporary or permanent are required at all times if the roadway is open to traffic.
4. All pavement markings that conflict with the desired markings shall be completely removed. Removals shall not leave the road surface scarred with an image that misleads traffic. Any excess damage or scarring of pavement shall be repaired at the Contractor's expense.
5. The proposed permanent markings shall be laid out by the Contractor in advance of the marking installation. Markings shall not be applied until the layout has been approved by the City Traffic Engineer.
6. Center lines shall be marked on all undivided arterial streets, and any other undivided street with more than two lanes and/or a speed limit of 30 mph or more.
7. Edge lines shall be marked on all non-urban streets.



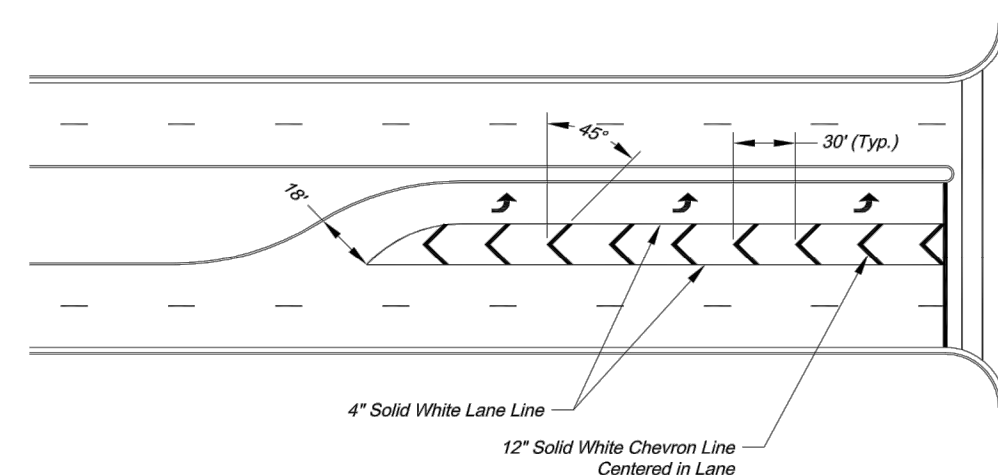
NOTES:

1. *Diagonal lines are required between centerlines if the width of the area between the center lines is greater than 12' and/or the length of the area between center lines is greater than 250'.*
2. *Diagonal lines should be spaced at 5' increments, equal to the posted speed limit.*
3. *Equal Spacing is calculated as $(L - 40) / (S - 1)$.*
4. *When a through lane of traffic terminates as a mandatory turn lane, Arrow and "ONLY" symbols should be marked in the turn lane, in alternating order. The first and last symbols should be Arrow*



TYPICAL DUAL TURN LANE MARKINGS

NOTE:
1. Dashed extension lines shall not extend through crosswalks.



TYPICAL STRIPED OUT TURN LANE MARKINGS

CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
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Project: ROADWAY MARKING DETAILS
Sheet Name: STANDARD DRAWING PM-1

Drawn By: AS
 Checked By: JW
 Date: 09/09/2009
 Project#
 1 OF 2
1

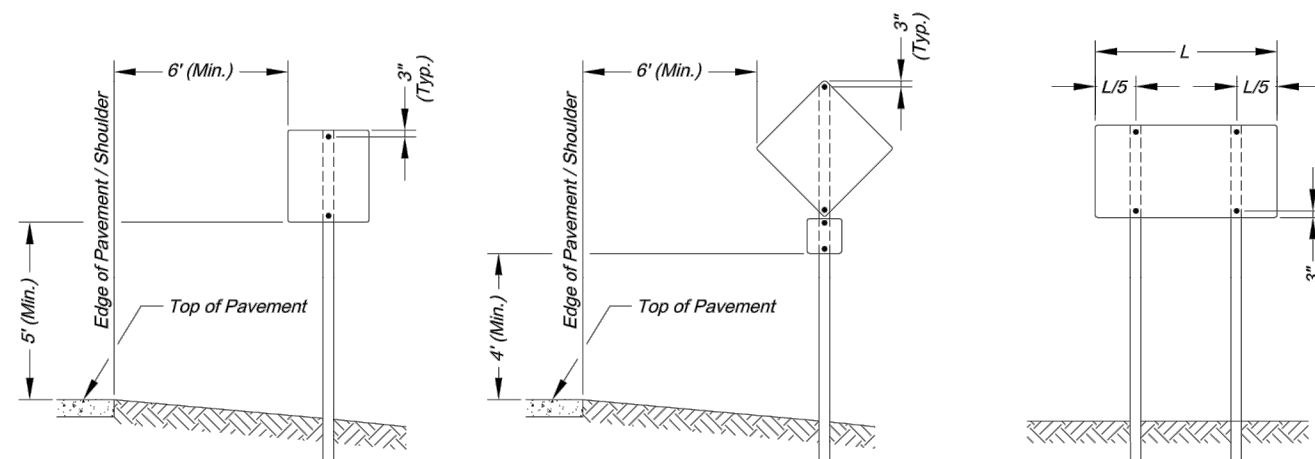
CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809



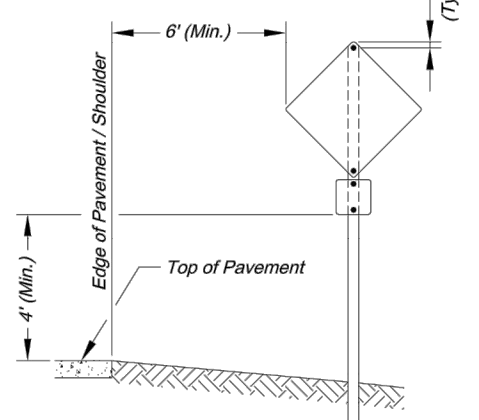
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INTERSECTION MARKING DETAILS	
Sheet Name:	STANDARD DRAWING PM-2

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Checked By: JW
Date: 09/09/2009
Project: 0
2 OF 2
2

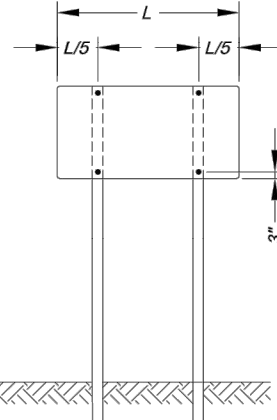
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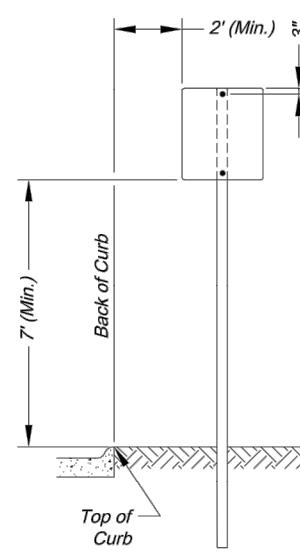
SIGN INSTALLATION FOR NON-CURBED STREET



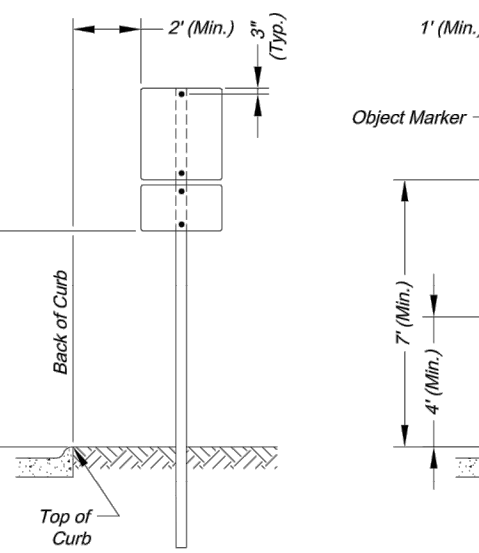
SIGN INSTALLATION WITH AUXILIARY SIGN FOR NON-CURBED STREET



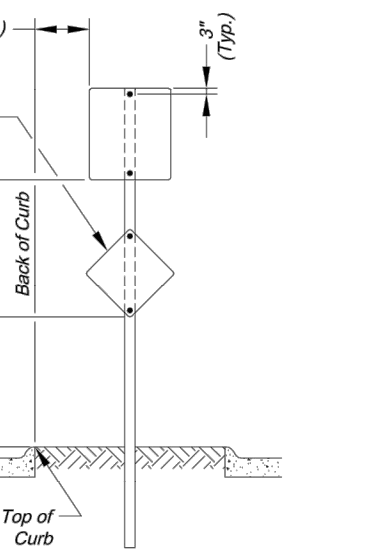
SIGN INSTALLATION WITH TWO SIGN POSTS



SIGN INSTALLATION FOR CURBED STREET



SIGN INSTALLATION WITH AUXILIARY SIGN FOR CURBED STREET



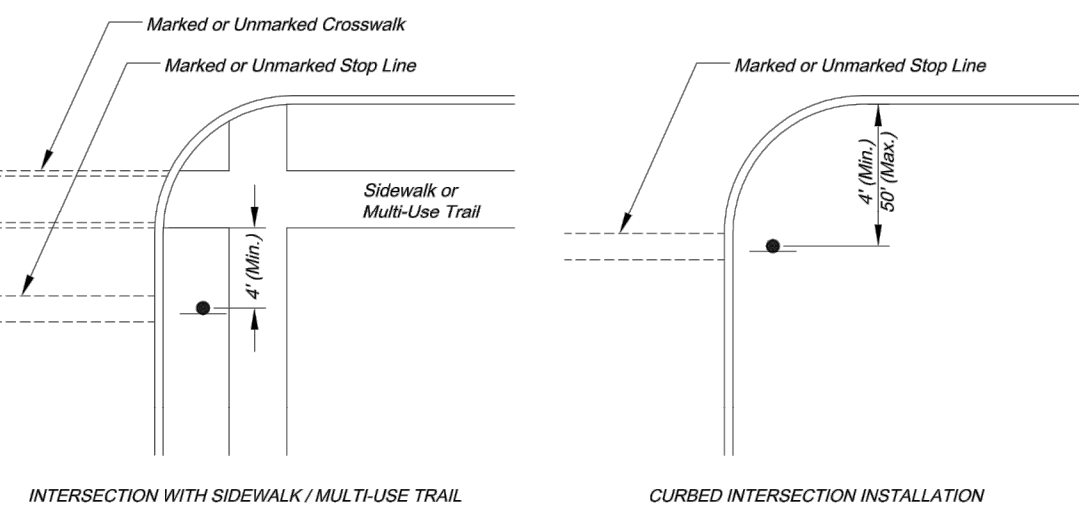
SIGN INSTALLATION FOR RAISED MEDIANS

SIGN MOUNTING DETAILS

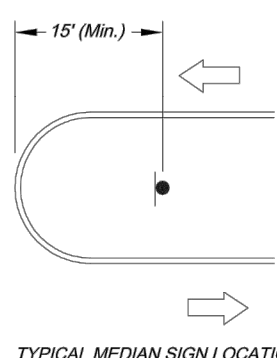
* The height to the bottom of a sign when it is located in a pedestrian walkway or extends into a walkway shall be a minimum of 80 inches above the walkway.

NOTE:

- Generally, the sign mounting height should not be more than 1' greater than the minimum mounting height.



CONTROL SIGN LOCATION



MEDIAN SIGN LOCATION

- NOTES:
- 4" P.V.C. sleeve shall be installed in new concrete medians at each location where a sign is to be installed.
 - For existing concrete medians, a 4" hole shall be bored into the concrete.

STANDARD ABBREVIATION LISTS

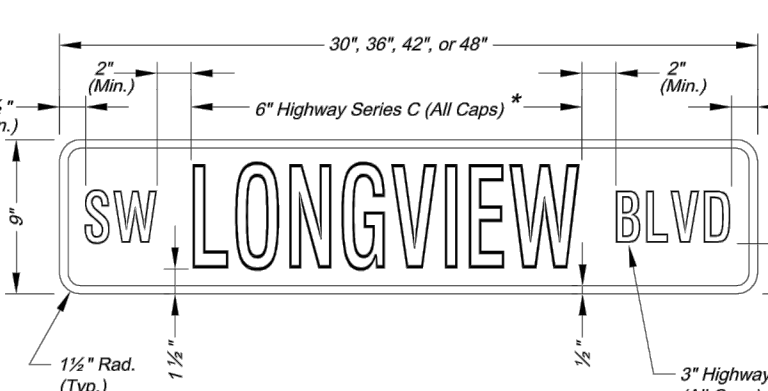
Named Streets	Abbreviation
Avenue	AVE
Boulevard	BLVD
Cir	CIR
Creek	CR
Court	CT
Crossing	XING
Driv	DR
Highway	HWY
Lane	LN
Parkway	PKWY
Place	PL
Road	RD
Street	ST
Terrace	TER
Trail	TRL
Way	WAY

STREET NAME SIGN QUANTITIES

Sign Designation	Sign Size	Sign Area (Sq. Ft.)	Number	Quantity
D3-1 (SP-1)	9" x 9"	Sq. Ft.	1	1
D3-1 (SP-2)	9" x 9"	Sq. Ft.	1	1
D3-1 (SP-3)	9" x 9"	Sq. Ft.	1	1
D3-1 (SP-4)	9" x 9"	Sq. Ft.	1	1
D3-1 (SP-5)	9" x 9"	Sq. Ft.	1	1
D3-1 (SP-6)	9" x 9"	Sq. Ft.	1	1

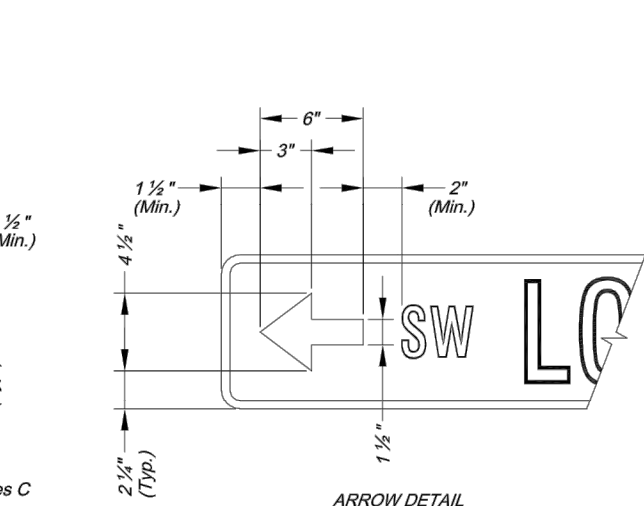
STREET NAME SIGN BLANK DETAILS

For Mounting on Square Steel Posts

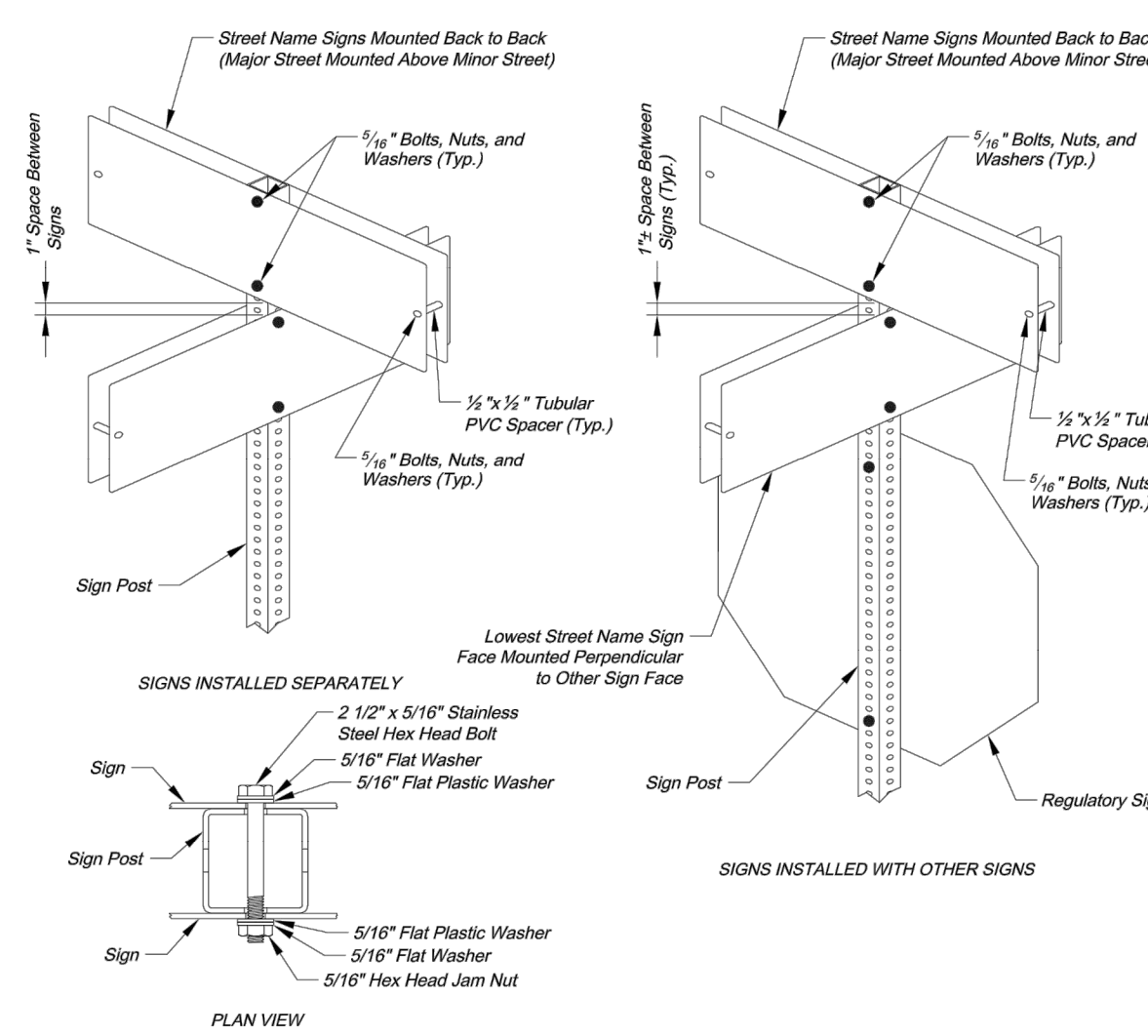


* Use Highway Series B (All Caps) in lieu of series C if necessary to fit text on a 36" sign blank.

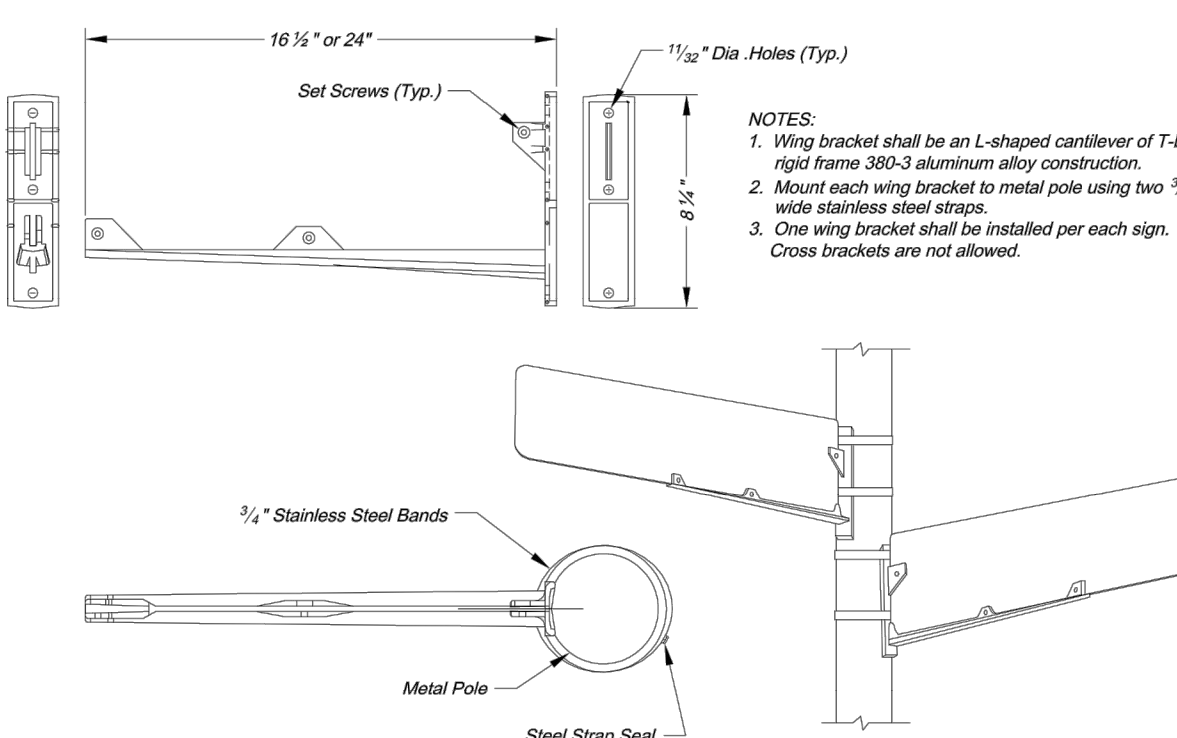
PROJECT SIGN DETAILS



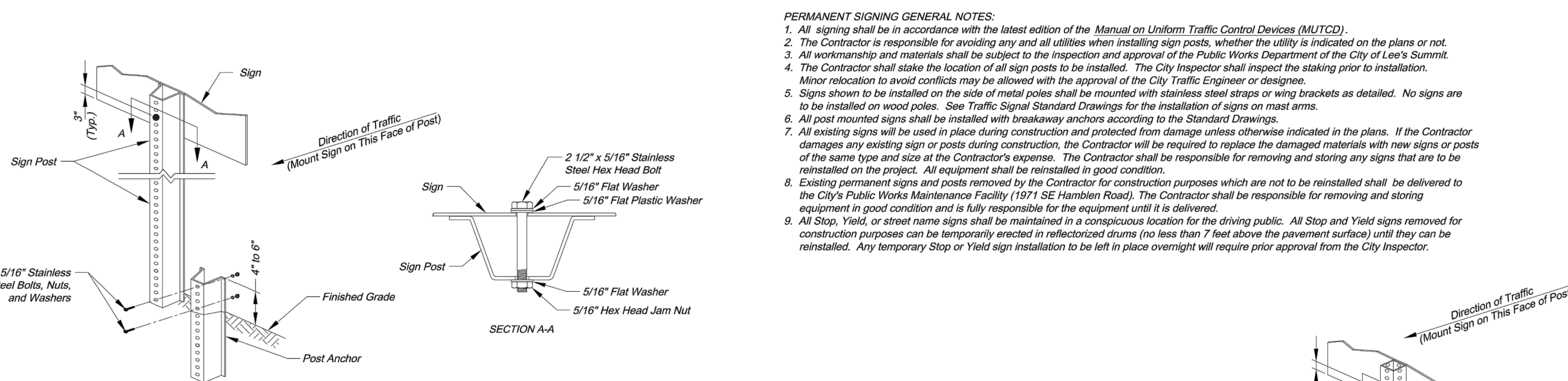
* Use Highway Series B (All Caps) in lieu of series C if necessary to fit text on a 36" sign blank.



SQUARE STEEL POST MOUNTING DETAILS



WING BRACKET MOUNTING DETAILS

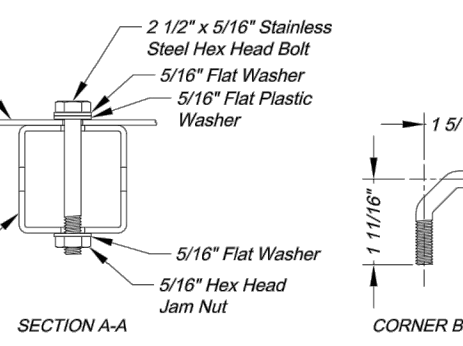


U-STEEL POST DETAILS

- U-STEEL POST NOTES:
- Splice shall be positioned entirely between finished grade line and 18" above finished grade line. Only one splice will be allowed per post.
 - U-Steel post shall be 3/4" dia., galvanized according to ASTM A123.
 - U-Steel post can be used for installation of signs with an area of less than 2.5 square feet.
 - All posts shall be embedded a minimum of 3 feet.

SQUARE STEEL POST INSTALLATION SEQUENCE:

- Sign post anchor driven partially into the ground using a drive cap with a sledge or power equipment.
- Anchor sleeve slipped over anchor and drive into the ground together with the sign post anchor.
- Insert sign post into the post anchor and bolt in place.

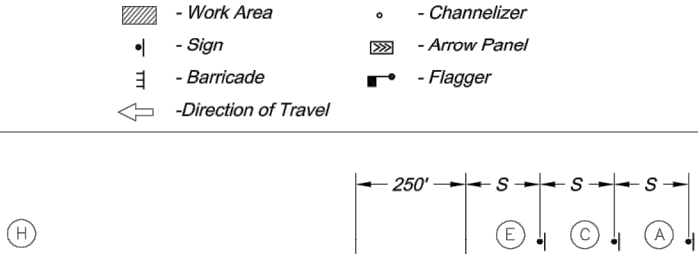


SQUARE STEEL POST DETAILS

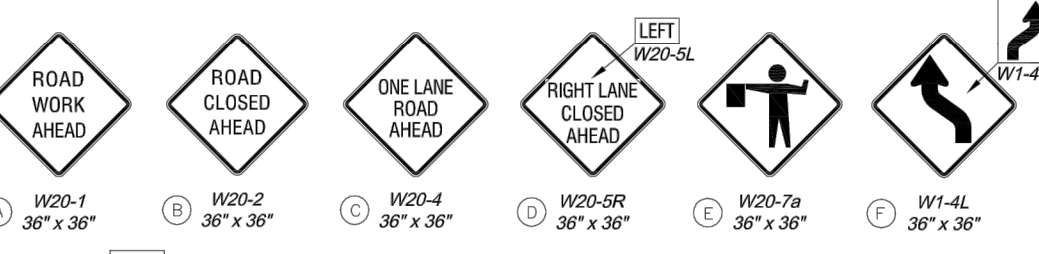
SQUARE STEEL POST NOTES:

- Square steel sign posts and break-away anchor shall consist of the following materials:
 - Sign Post - 14 Ga. 2" x 2" Square Steel Post
 - Post Anchor - 12 Ga. 2 1/2" x 2 1/2" x 36" Square Steel Post
 - Anchor Sleeve - 12 Ga. 2 1/2" x 2 1/2" x 18" Square Steel Post
- 14 Gauge posts must meet a certified minimum yield strength of 60,000 psi.
- In all installations the first hole above the finished grade line on the sign post, anchor, and anchor sleeve must be in line for the insertion of the corner bolt.
- The maximum area for one sign post is 9.0 square feet. A sign or combination of signs with an area greater than 9.0 square feet will require two posts. Also, signs with a width greater than 36" (not including 36" x 36" diamond shaped signs) will require two posts.

SYMBOL LEGEND

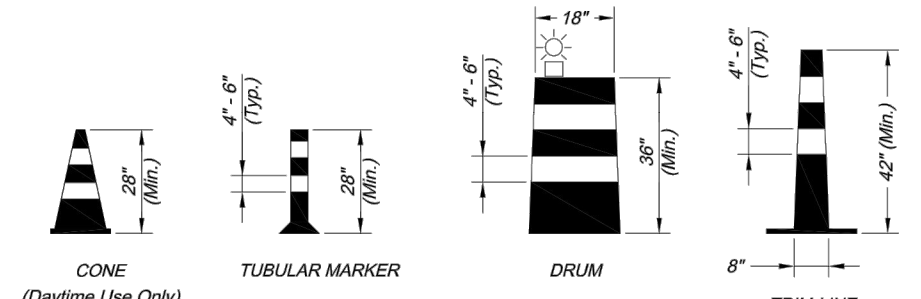


SIGN LEGEND



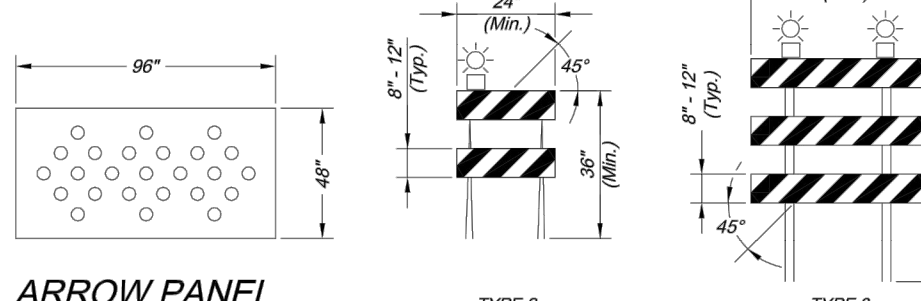
GENERAL NOTES:

- 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-reflective.
- All signs shall be securely mounted with height and lateral location as described in the MUTCD.
- Warning signs 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.
- Flags 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. When flags are used, advance signing shall be as shown in the details or as specified in the MUTCD. The Contractor shall meet the requirements in the MUTCD in regard to character, timing, attire, and behavior.
- Trin-lines are the City's preferred channelizing device. Cones may not be used at night.
- Flags 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. When flags are used, advance signing shall be as shown in the details or as specified in the MUTCD. The Contractor shall meet the requirements in the MUTCD in regard to character, timing, attire, and behavior.
- 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 City Traffic Engineer. 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 6:00 p.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 "Workmen" symbolic sign (MUTCD No. W12-1a) 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 "Workmen" 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 ensure 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:
 - 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.



CHANNELIZERS

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



ARROW PANEL

BARRICADES

Sign Spacing "S"	Speed Limit (mph)	Spacing (Feet)
25	100	100
30-35	200	200
40	300	300

Taper Dimensions (Feet)	Speed Limit (mph)	Minimum Taper Length "L"	Minimum Number of Channelizers
10	11	12	6
25	105	115	125
30	160	165	160
35	205	225	245
40	270	295	320
45	450	495	540

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	25	30
30	30	30	60
35	35	35	70
40	40	40	80
45	45	45	90

Guidelines for Length of Longitudinal Buffer Space "B"

Speed Limit (mph) Length (Feet)

25 35 30 30 60 35 35 70 40 40 80 45 45 90

2

Drawn By: AS

Checked By: JH

Date: 08/26/2009

Project:

2 OF 3

STANDARD DRAWING SN-2

PROJECT: CITY OF LEE'S SUMMIT PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MISSOURI 64063 PHONE: (816) 899-1800 FAX: (816) 969-8599

Sheet Name: SIGN POST DETAILS

Project No: X

Drawn By: JH

Checked By: JH

Date: 08/26/2009

Project:

2 OF 3

STANDARD DRAWING SN-2

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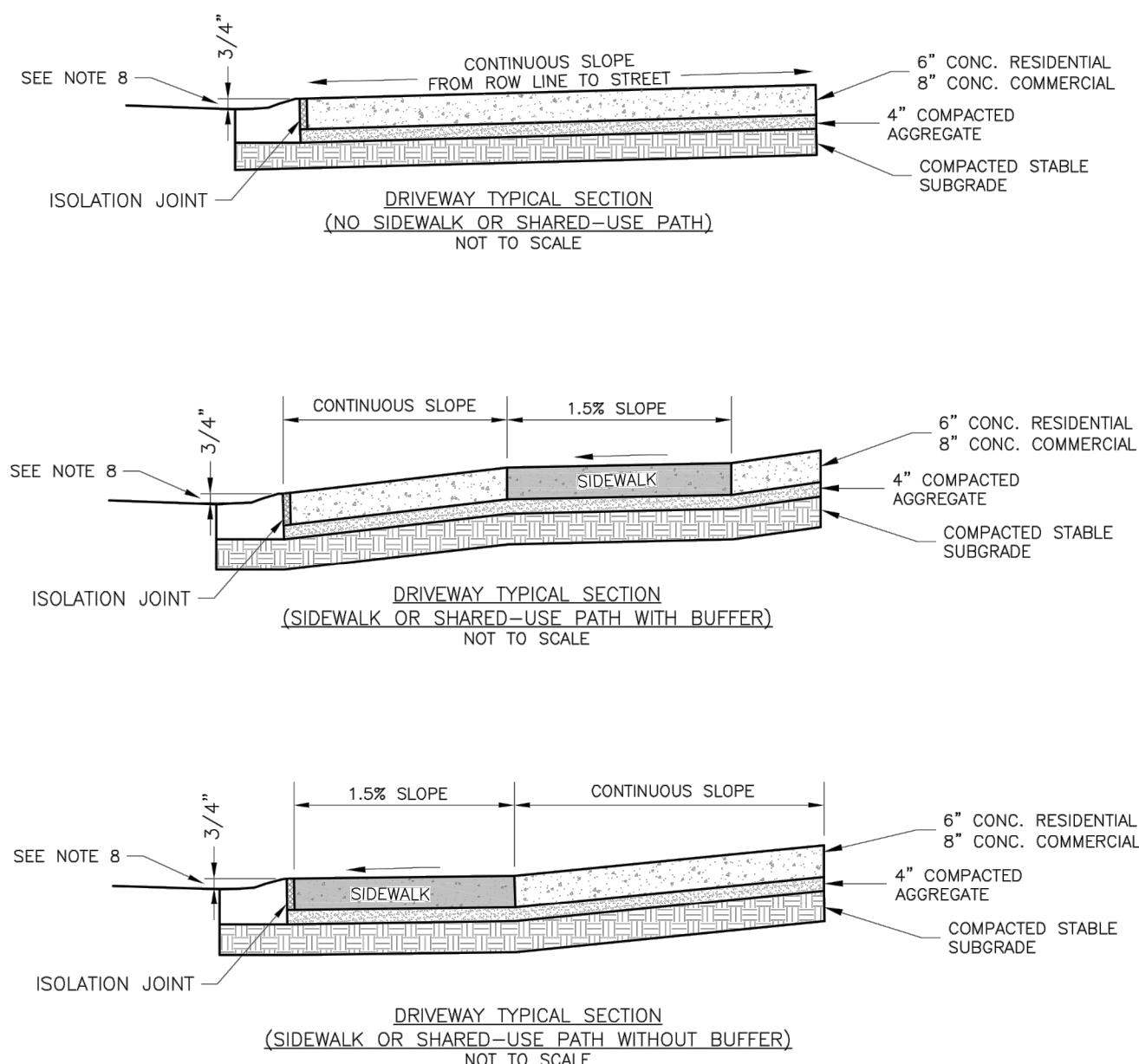
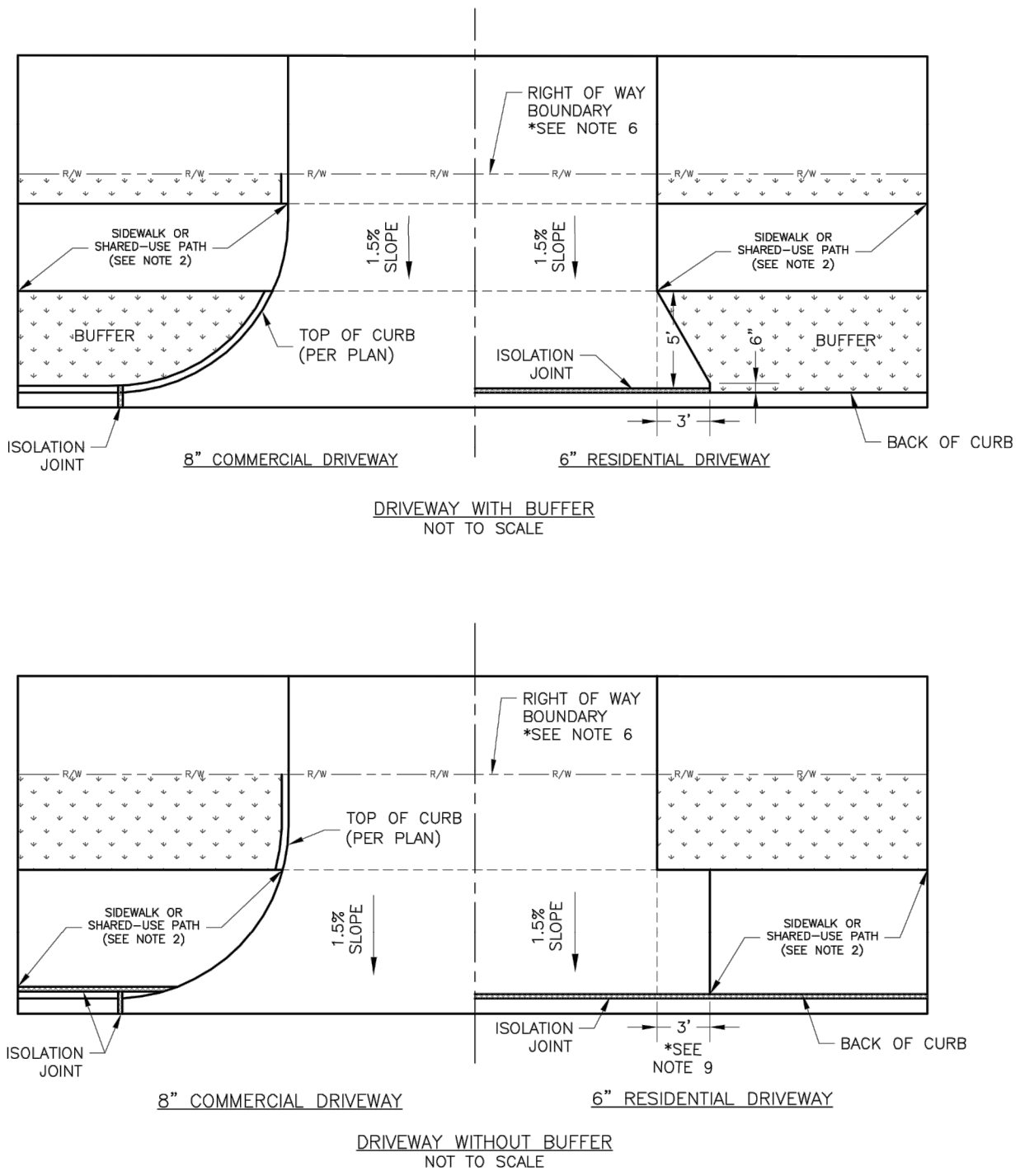
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Date: 08/26/2009

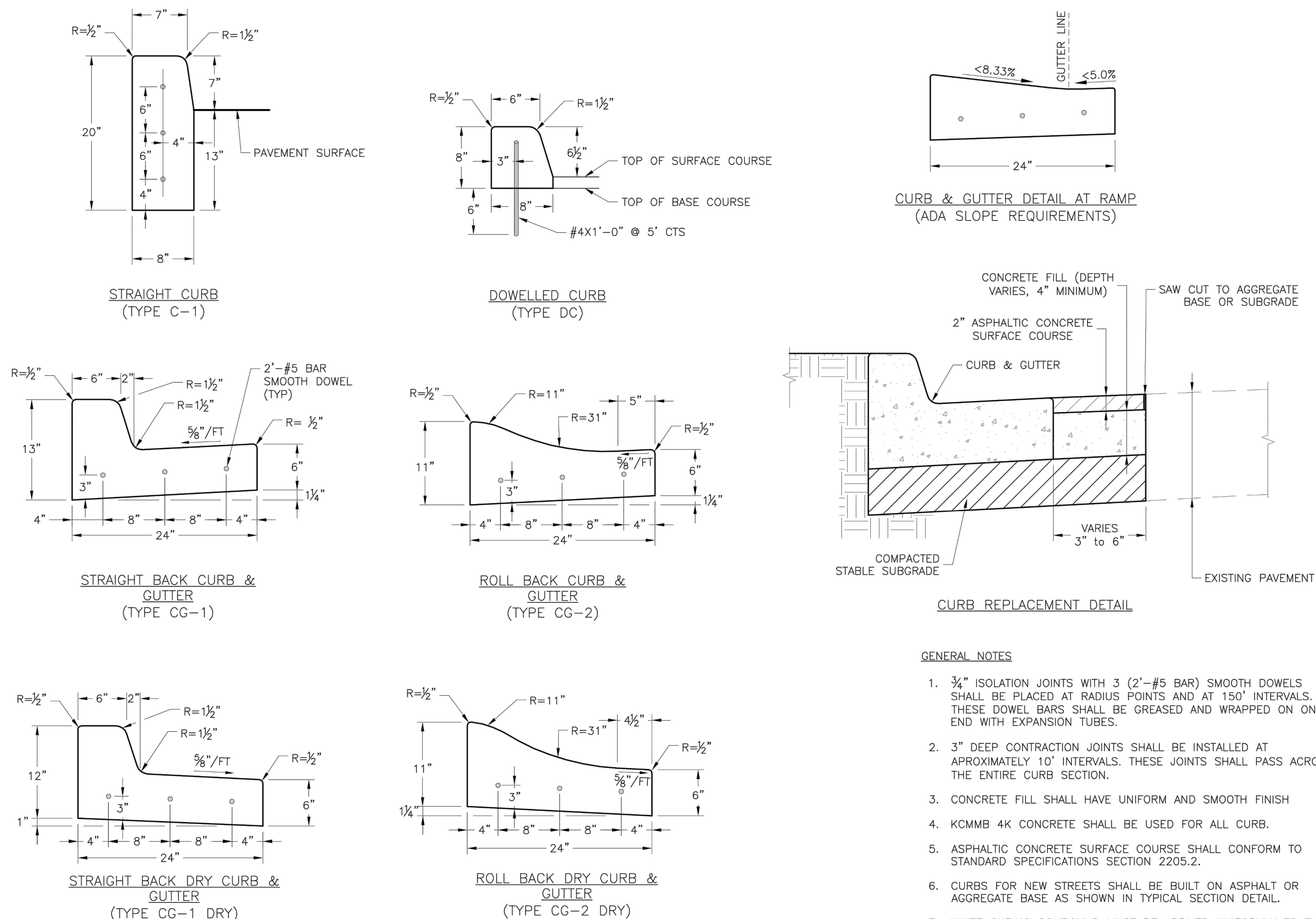
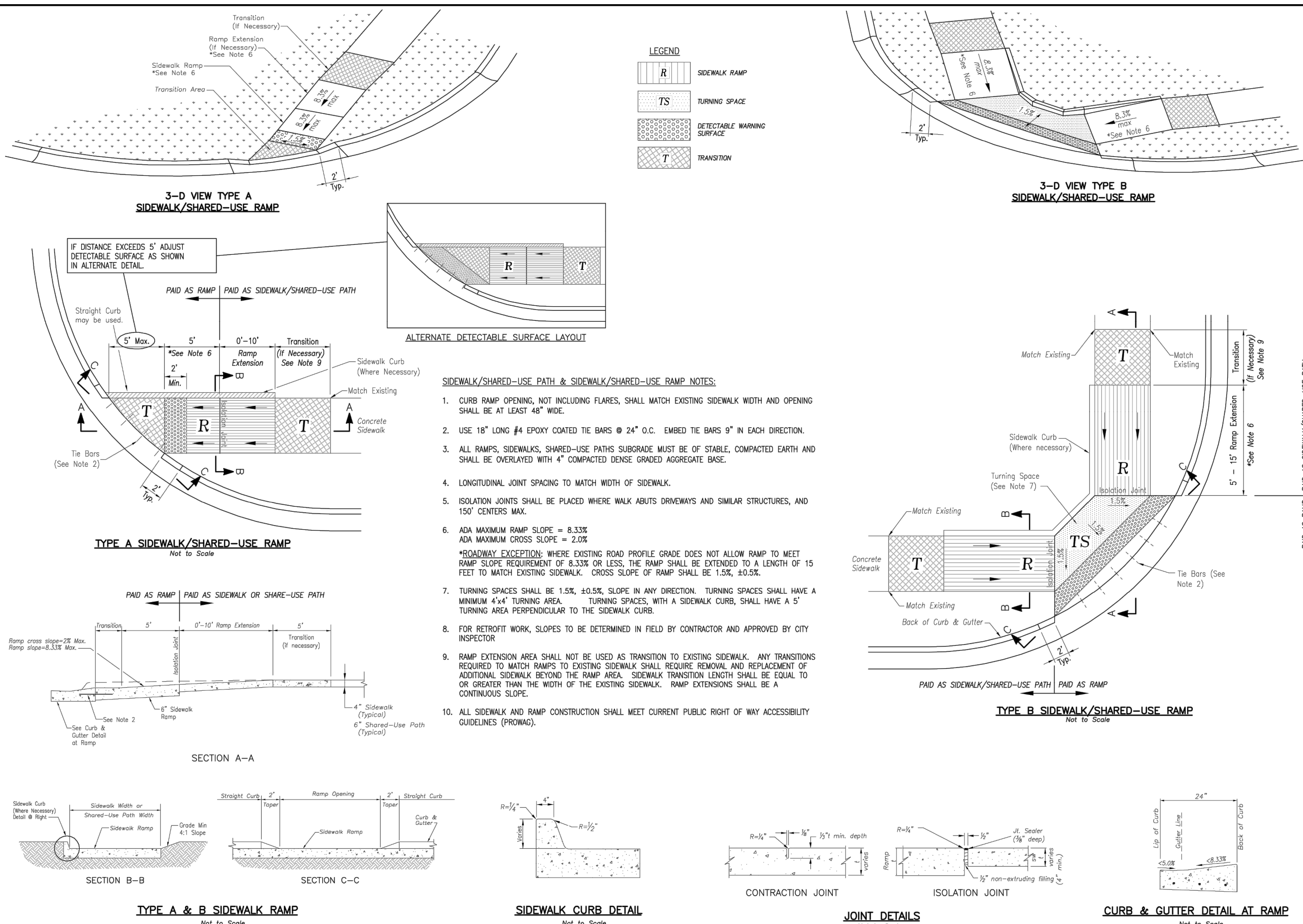
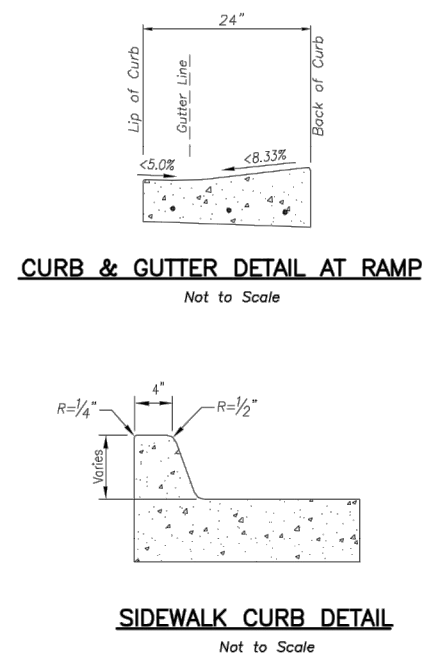
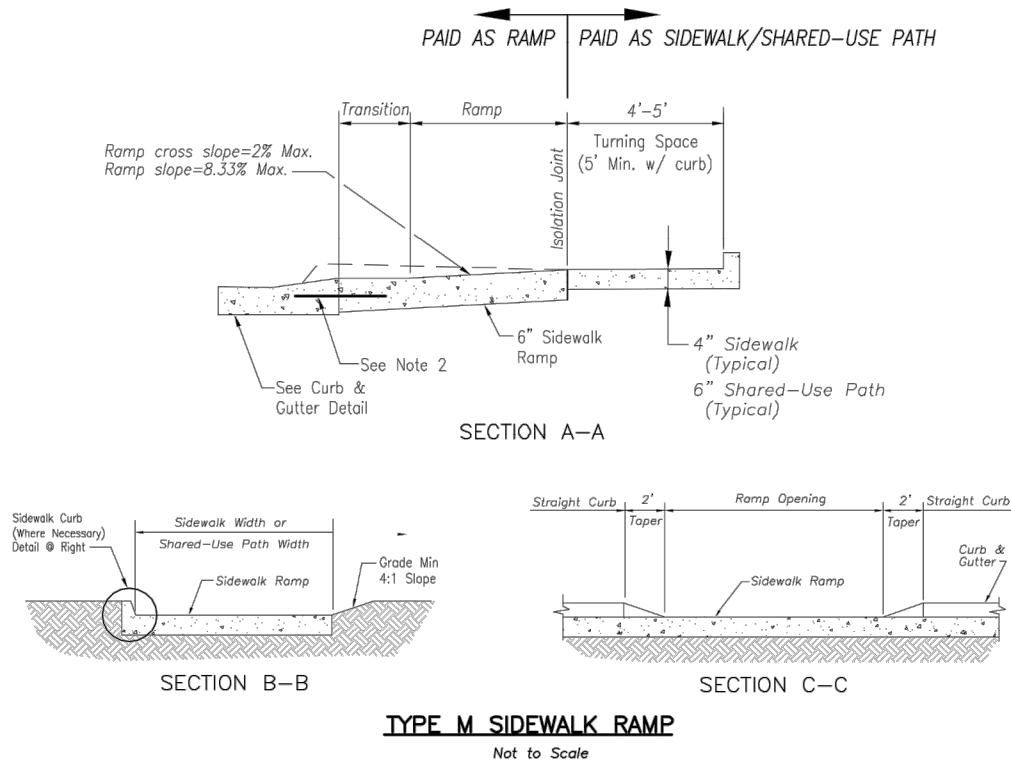
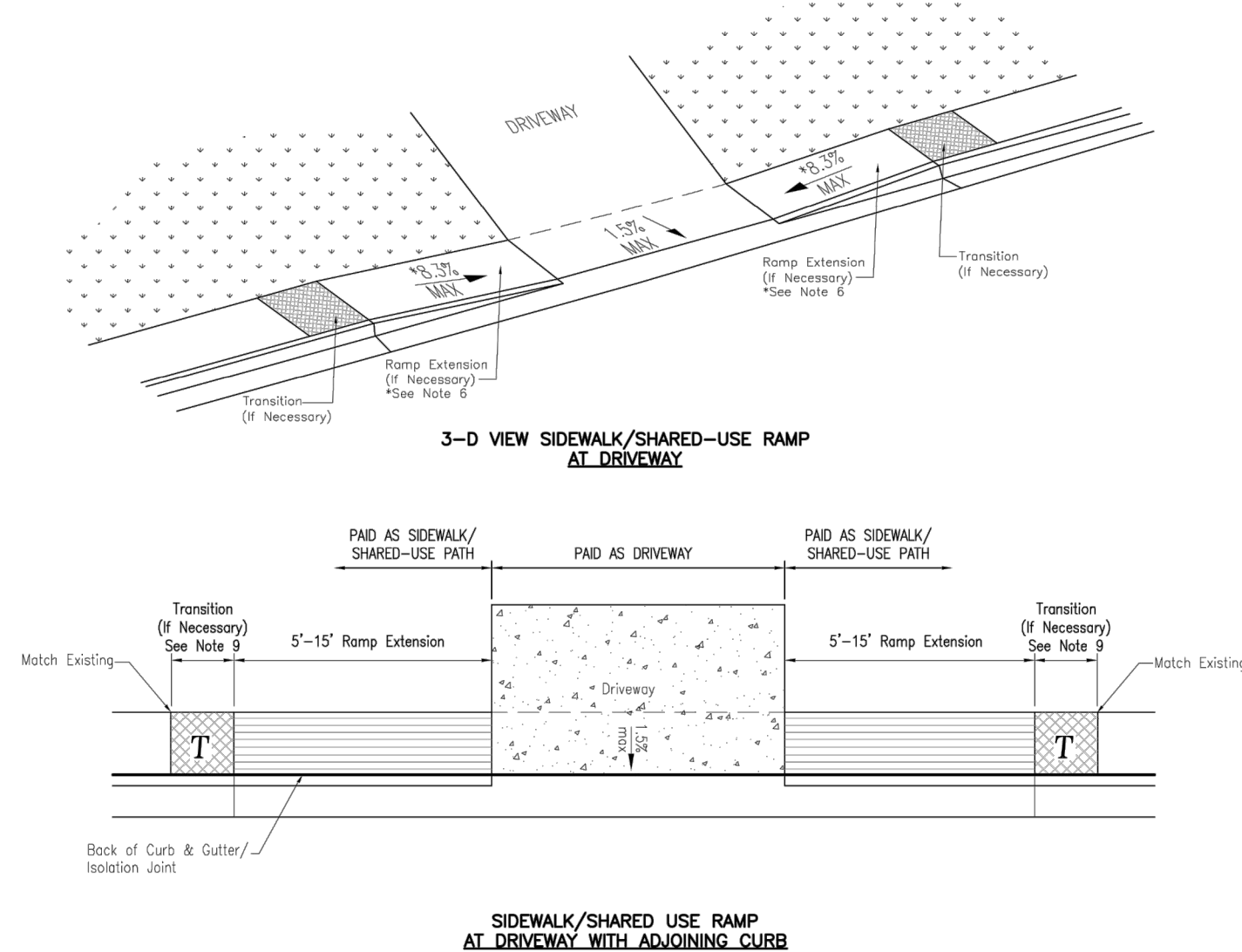
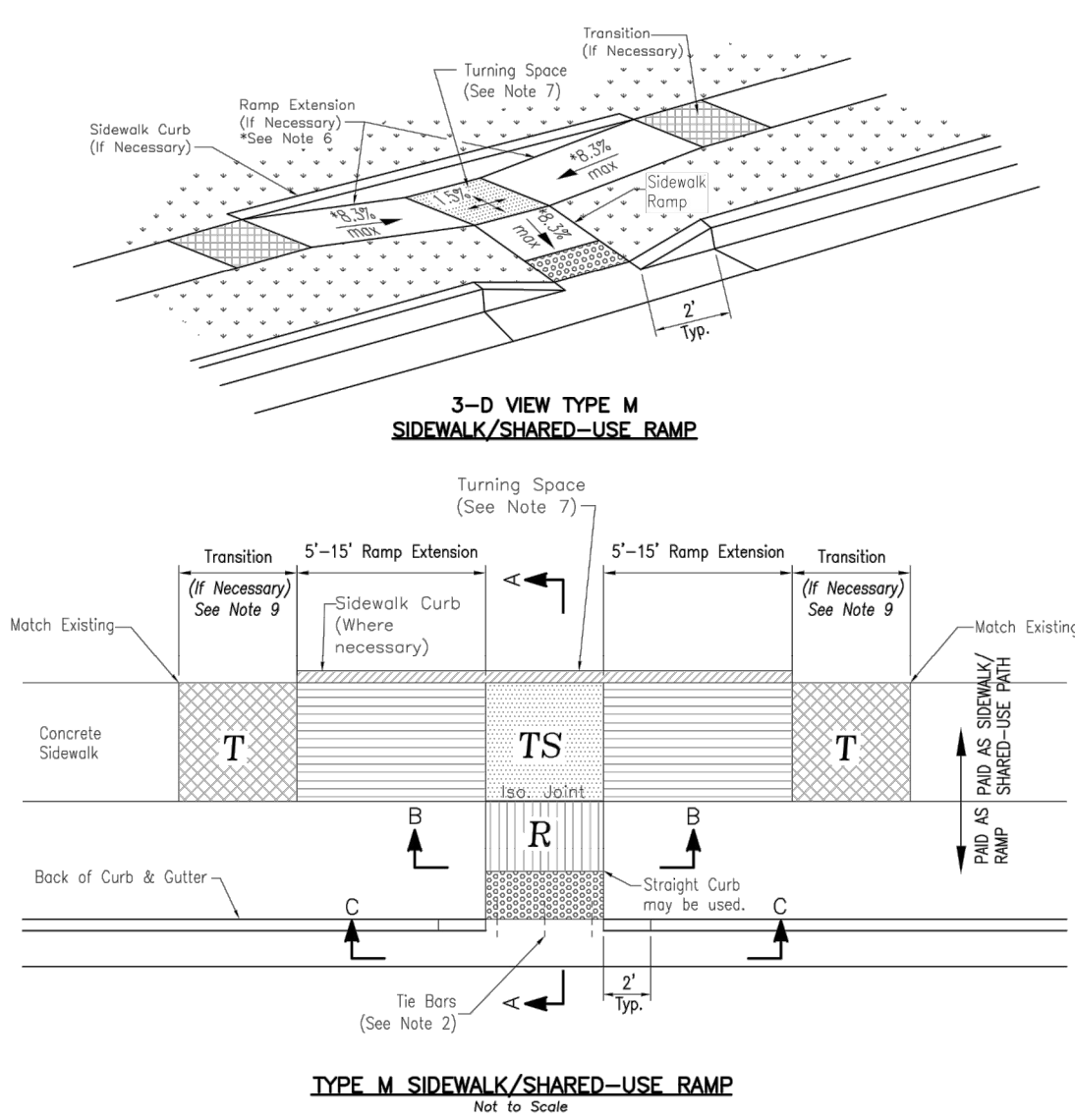
Project:

2 OF 3

ST



- GENERAL NOTES
1. SUBGRADE SHALL BE STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
 2. ALL DRIVE APPROACHES SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG) FOR SLOPE REQUIREMENTS WHEN SIDEWALK IS REQUIRED (SEE ADA AMP RETROFIT DETAILS).
 3. JAIL AT BACK OF CURB LINE SHALL BE AN ISOLATION JUMP FOR RESIDENTIAL DRIVEWAYS.
 4. MINIMUM DRIVEWAY WIDTH IS REQUIRED FOR ALL CURBS.
 5. COMMERCIAL DRIVEWAYS AND DRIVEWAY APPROACHES, IN THE PUBLIC RIGHT OF WAY, SHALL BE KOMB4 K40 CONCRETE MIX.
 6. JAIL MUST BE INSTALLED AT THE RIGHT OF WAY BOUNDARY FOR PROPERTY DELINEATION.
 7. WHITE PAVEMENT MARKING TO BE INSTALLED TO THE RIGHT OF DRIVEWAY APPROACH AFTER FINAL FINISHING.
 8. "X" FROM TOP OF CURB TO FLOWLINE AT DRIVEWAY (TYPE CG-1 CURB ONLY), MUST MAINTAIN ORIGINAL FLOWLINE OF CURB.
 9. DRIVING CURB SHALL BE 6" THICK EXTENDING 3' FROM DRIVEWAY APPROACH.
 10. THE MAXIMUM WIDTH OF A RESIDENTIAL DRIVEWAY IS 36 FEET WITHIN THE RIGHT OF WAY.



LS **LEE'S SUMMIT**
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 1220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Project: STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Name: DRIVEWAY DETAIL

GEN-1

LS **LEE'S SUMMIT**
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Project: STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Name: ADA RAMP RETROFIT DETAIL

GEN-3B

LS LEE'S SUMMIT
MISSOURI

Project: STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Name: ADA RAMP RETROFIT DETAIL

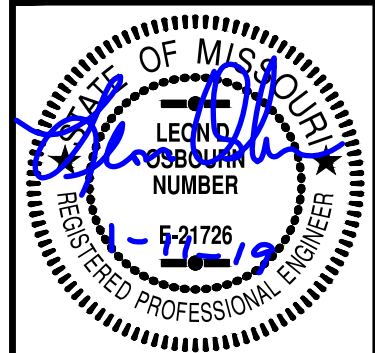
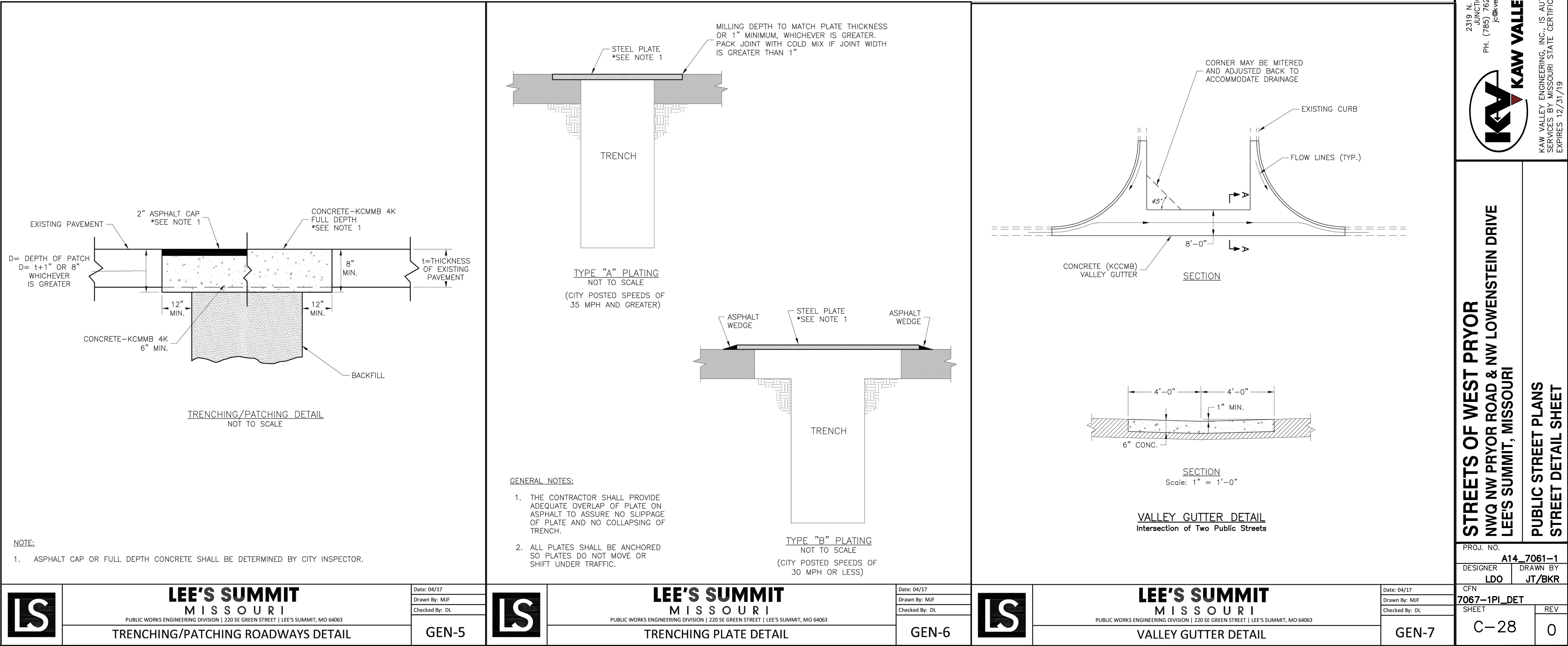
GEN-3A

LS LEE'S SUMMIT
MISSOURI

Project: STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Name: CLIP & GUTTER DETAIL

GEN-4

STREETS OF WEST PRYOR NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE LEE'S SUMMIT, MISSOURI		 KAW VALLEY ENGINEERING KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19				LEON D. OSBOURN ENGINEER MO # 021726		2319 N. JACKSON P.O. BOX 1304 JACKSON, MISSOURI 64501 PH. (785) 752-5040 FAX (785) 762-7744 jsek@kveeng.com www.kveeng.com		01-11-19 REV DATE DESCRIPTION INITIAL ISSUE LDO DSN DWN CHK LDO	
PROJ. NO. A14_7061-1		DESIGNER LDO		DRAWN BY JT/BKR		CFN 7067-1-PL_DET		REV 0		C-27	
PUBLIC STREET PLANS STREET DETAIL SHEET											



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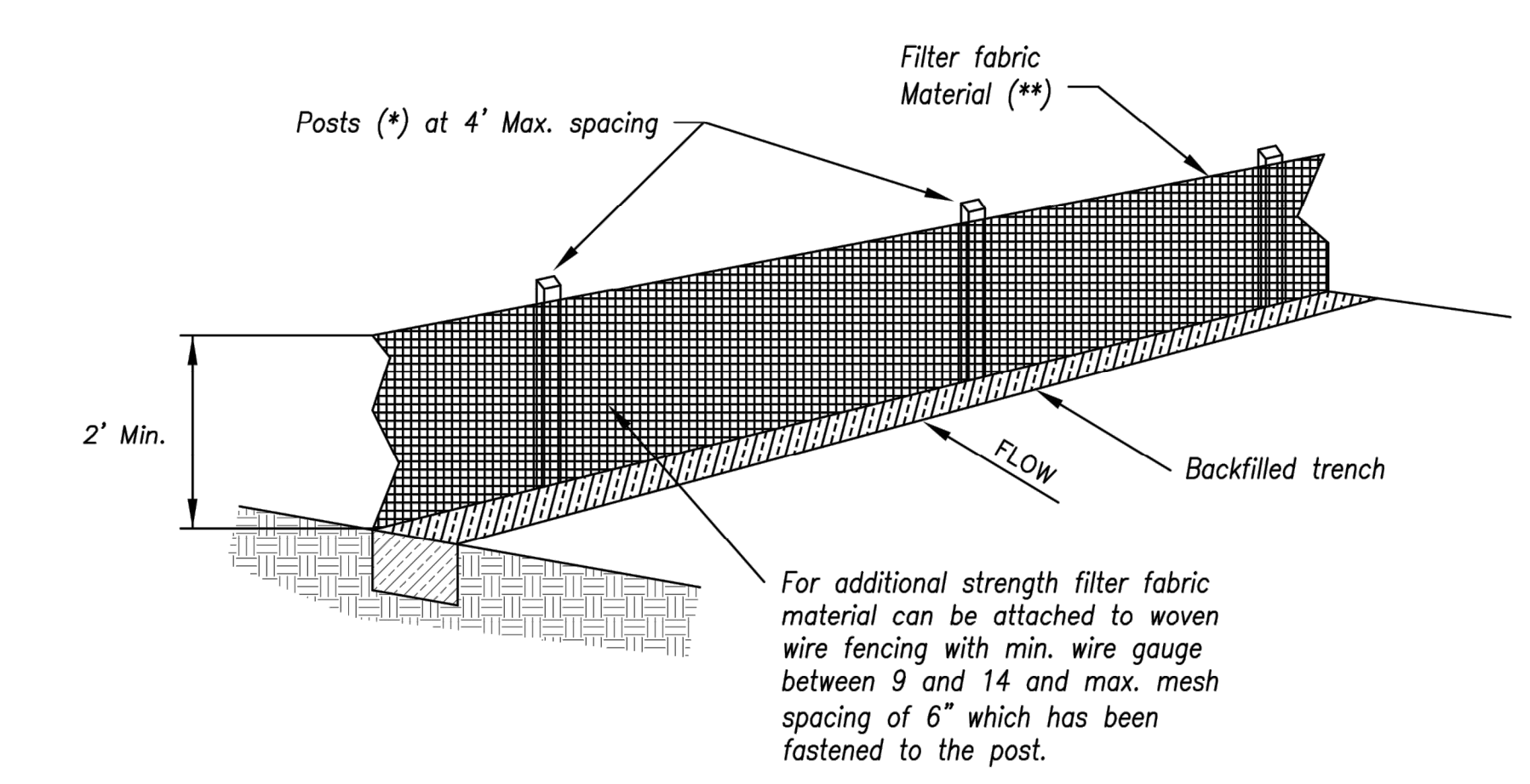
KAW VALLEY ENGINEERING
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EXPIRES 12/31/19

STREETS OF WEST PRYOR
NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE
LEE'S SUMMIT, MISSOURI

PUBLIC STREET PLANS
STREET DETAIL SHEET

REV	DATE	DESCRIPTION
0	01-11-19	INITIAL ISSUE

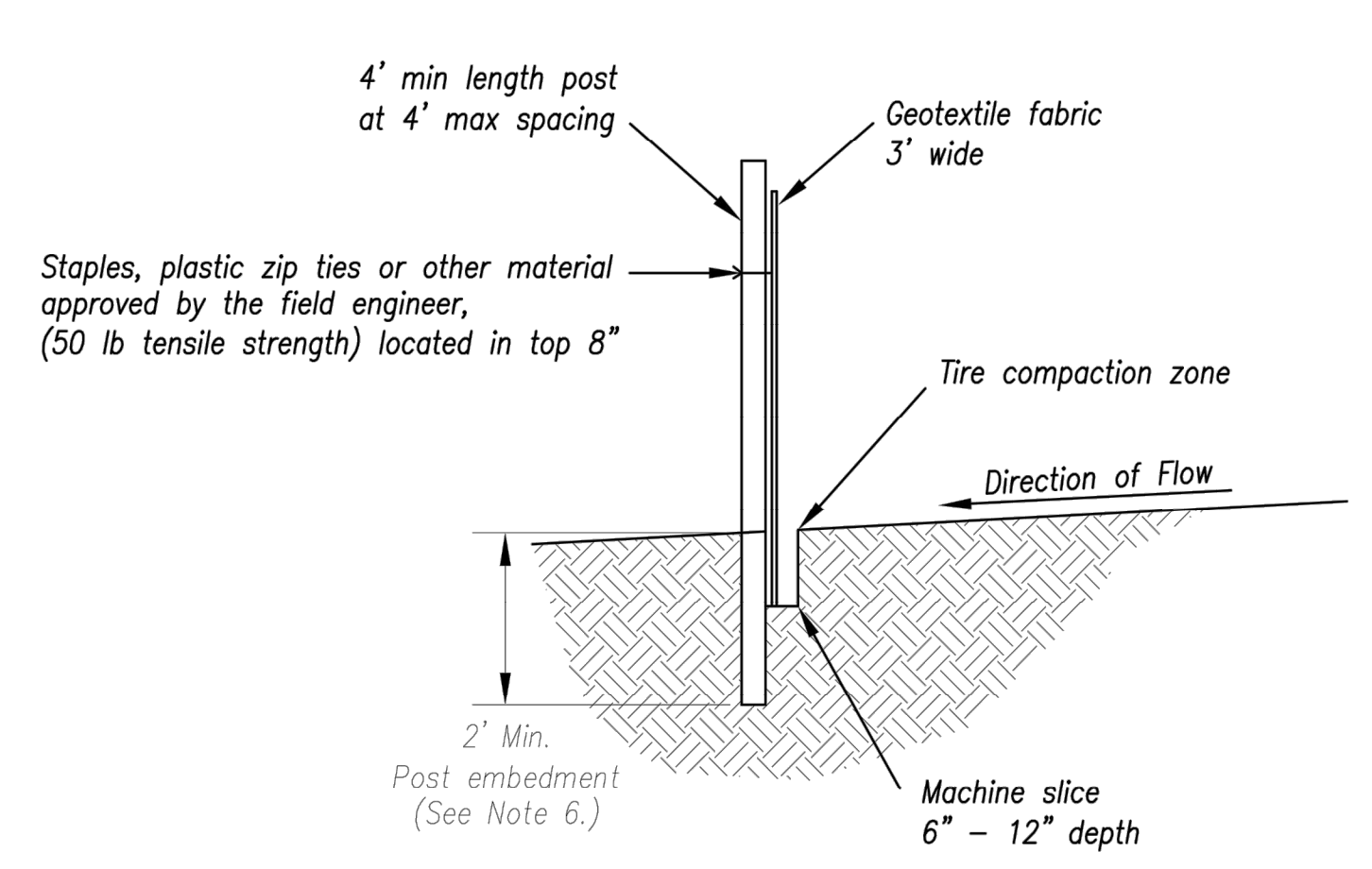
	LDO	DSN	JT	LDO	CHK
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- (*) POSTS
- MIN. LENGTH 4'
 - HARDWOOD 1 3/16" x 1 3/16"
 - NO.2 SOUTHERN PINE 2 5/8" x 2 5/8"
 - STEEL 1.33 LB/FT

(**) - Geotextile Fabric shall meet the requirements of AASHTO M288

SILT FENCE DETAILS
Not to Scale



- Notes:
1. In order to contain water, the ends of the silt fence must be turned uphill (Figure A).
 2. Long perimeter runs of silt fence must be limited to 100'. Runs should be broken up into several smaller segments to minimize water concentrations (Figure A).
 3. Long slopes should be broken up with intermediate rows of silt fence to slow runoff velocities.
 4. Attach fabric to upstream side of post.
 5. Install posts a minimum of 2' into the ground.
 6. Trenching will only be allowed for small or difficult installation, where slicing machine cannot be reasonably used.

- Maintenance:
1. Remove and dispose of sediment deposits when the deposit approaches 1/3 the height of silt fence.
 2. Repair as necessary to maintain function and structure.

STATE OF MISSOURI
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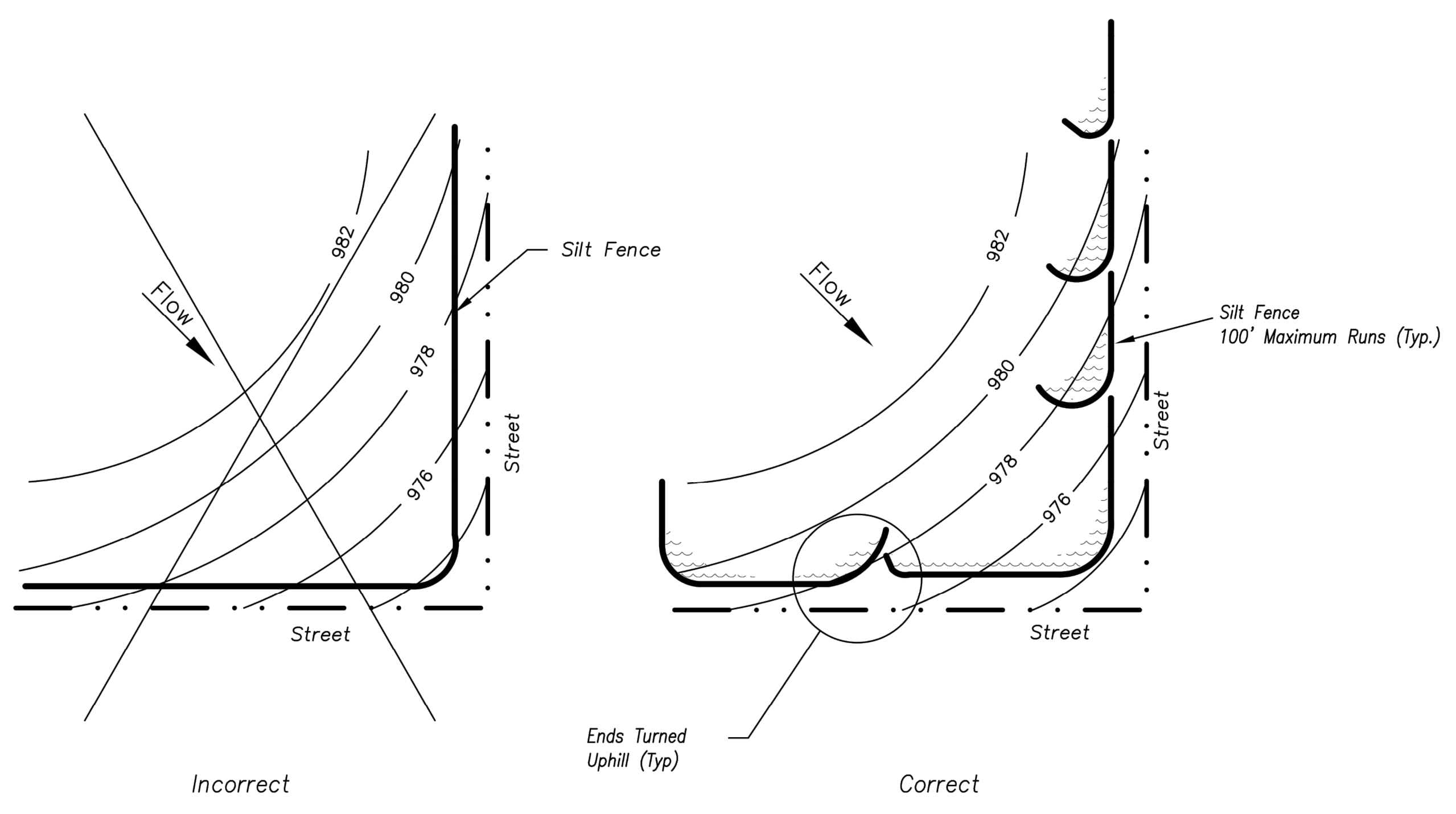
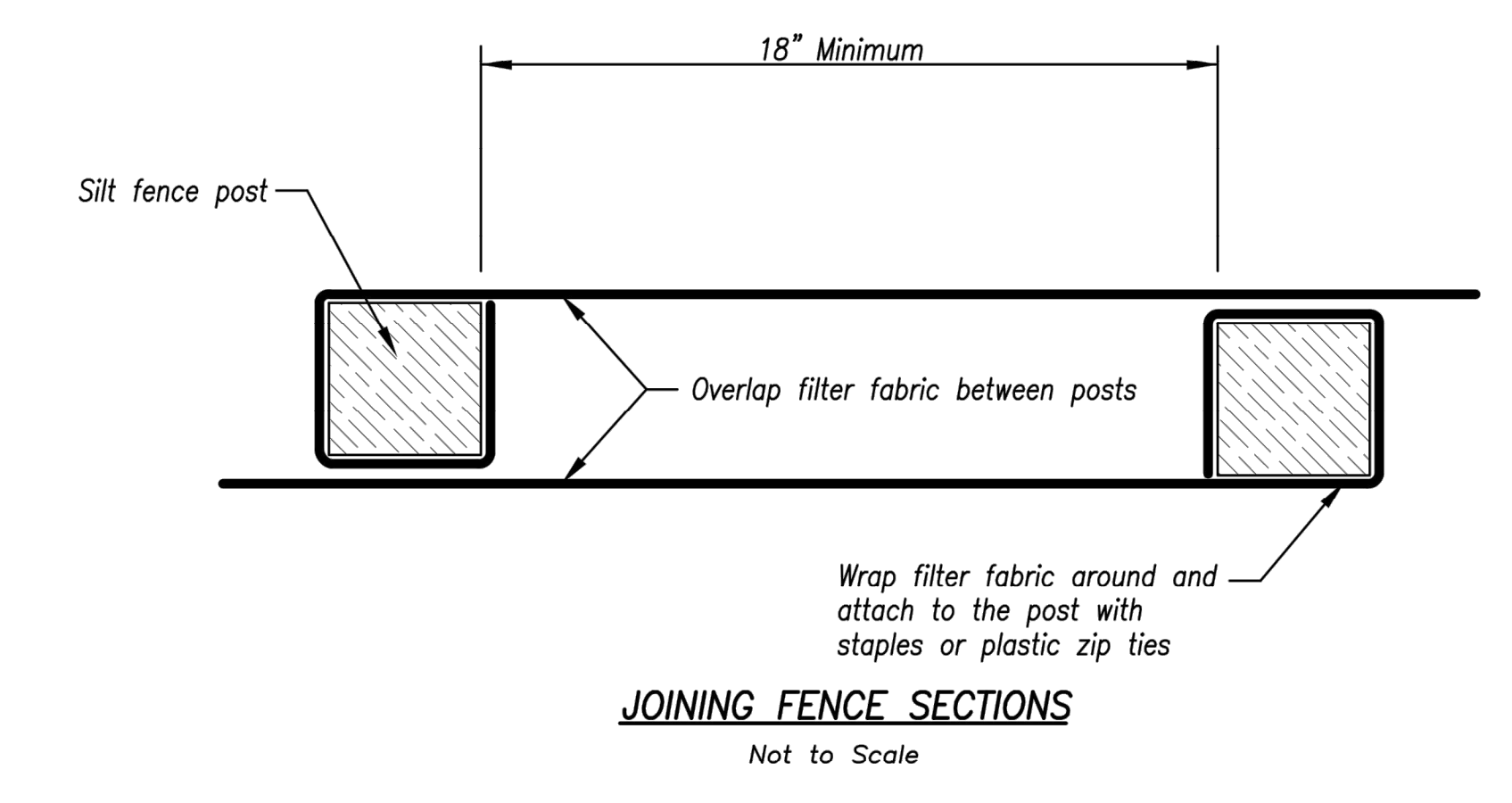
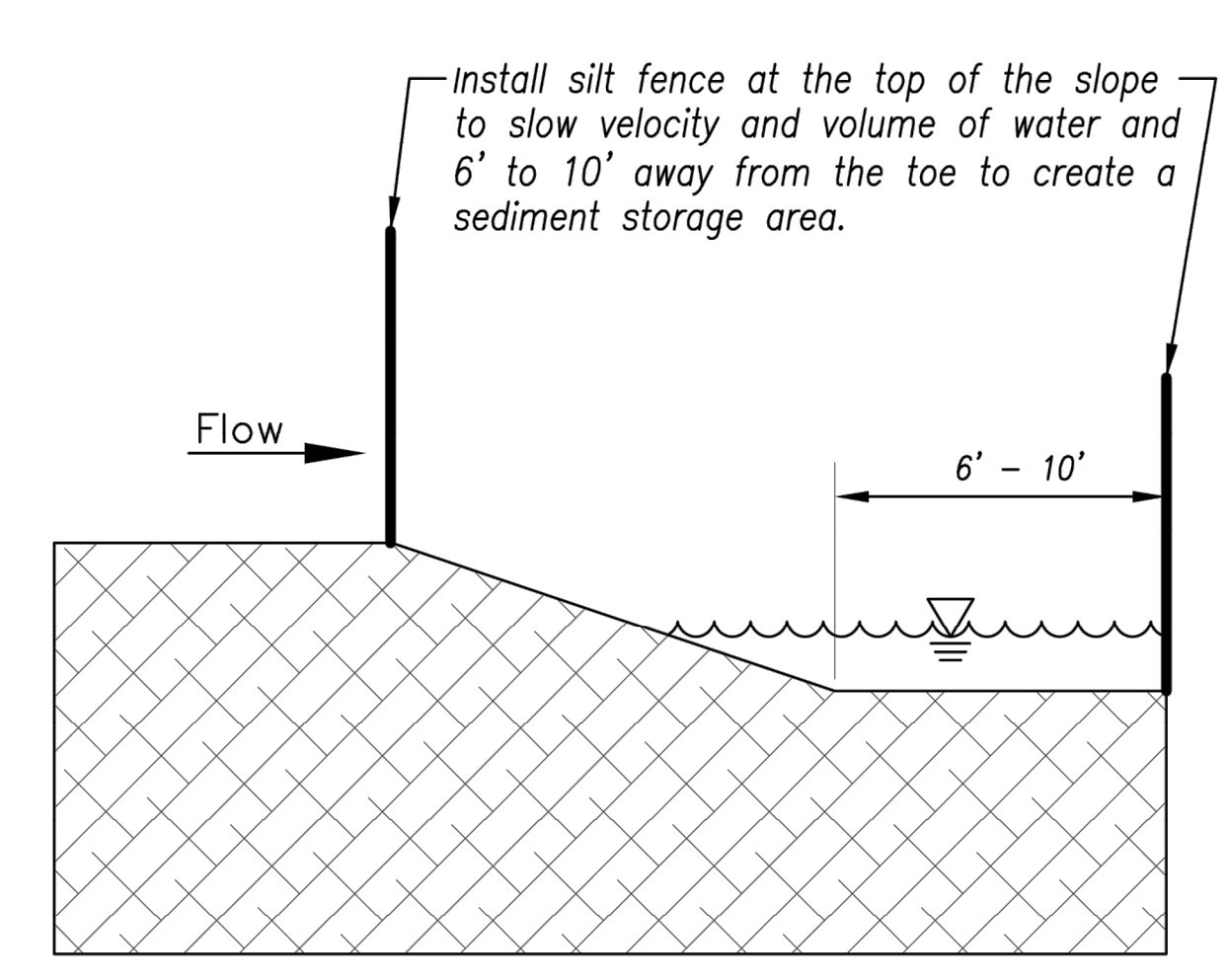


Figure A

SILT FENCE LAYOUT
Not to Scale



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Kansas City Metro Chapter
APWA
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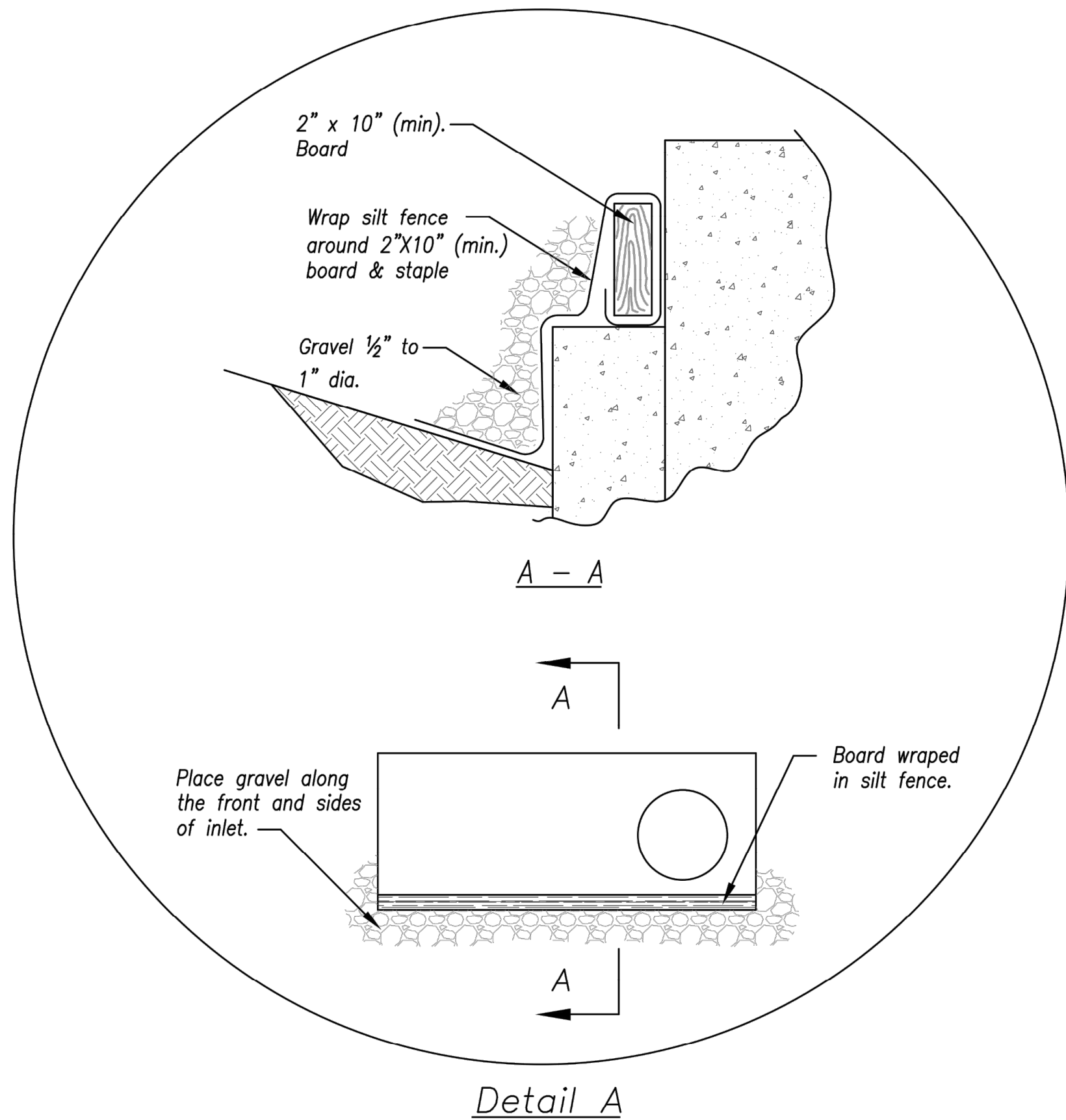
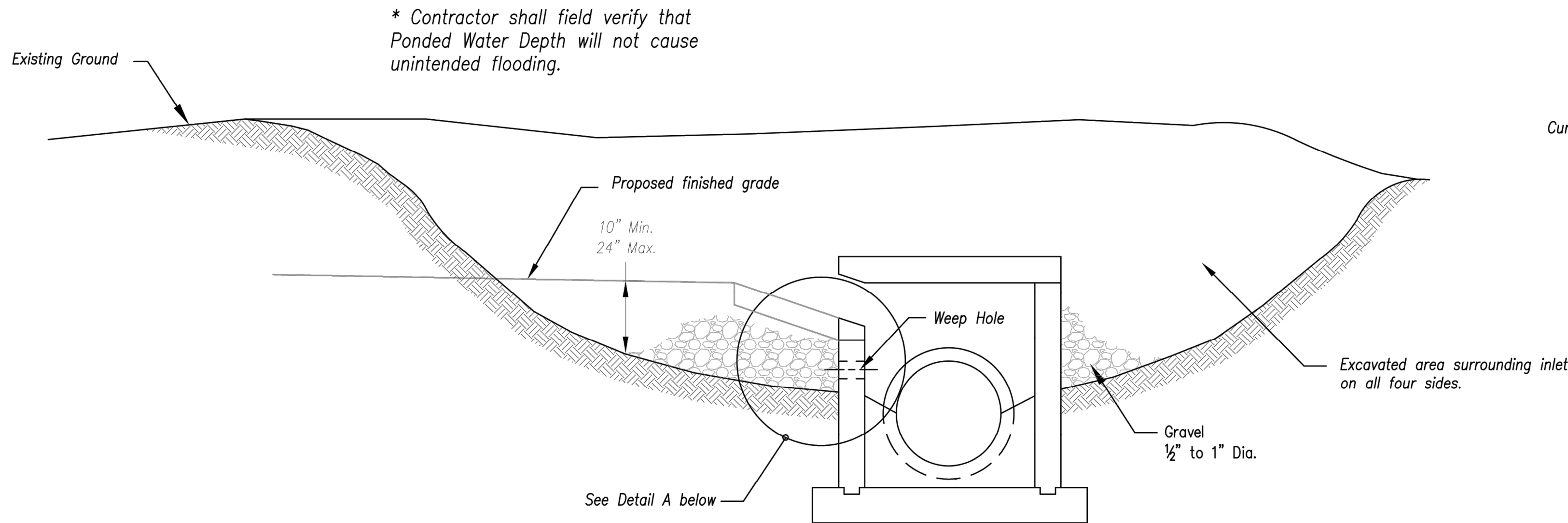
KANSAS CITY
METRO CHAPTER

SILT FENCE

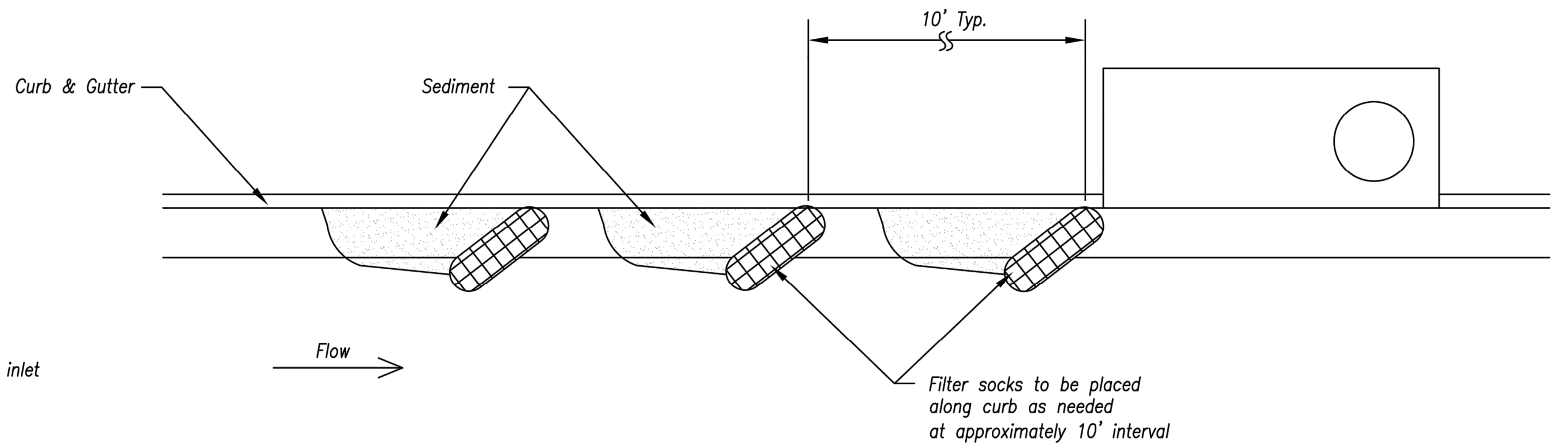
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NUMBER ESC-03
ADOPTED:
10/24/2016

STREETS OF WEST PRYOR
NW/Q NW PRYOR ROAD & NW LOWENSTEIN DRIVE
LEE'S SUMMIT, MISSOURI
PUBLIC STREET PLANS
EROSION CONTROL DETAIL SHEET

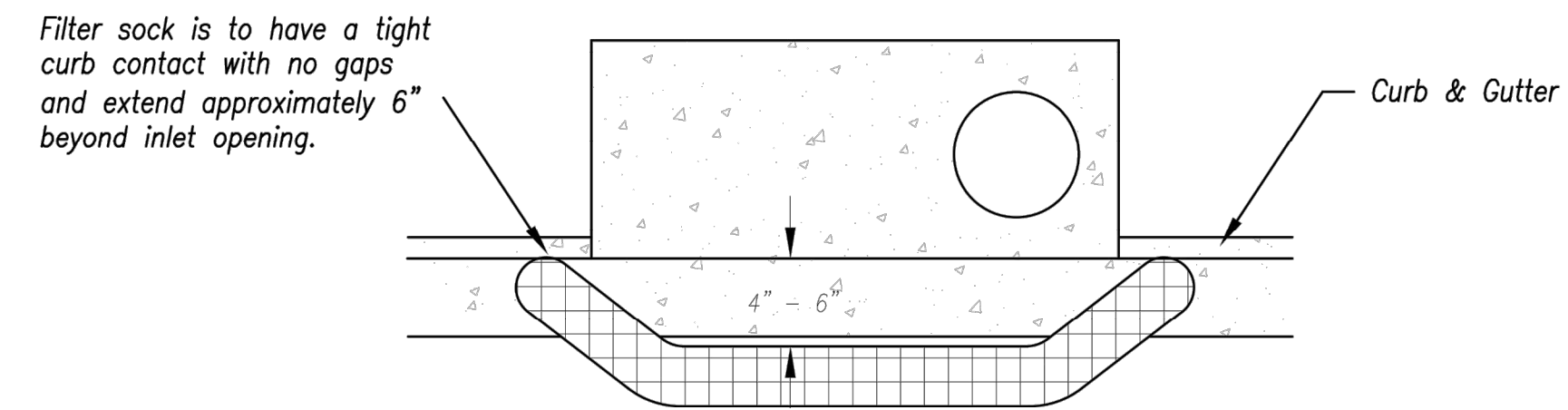
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DESIGNER LDO
DRAWN BY JT/BKR
CFN 7067-1PI_DET
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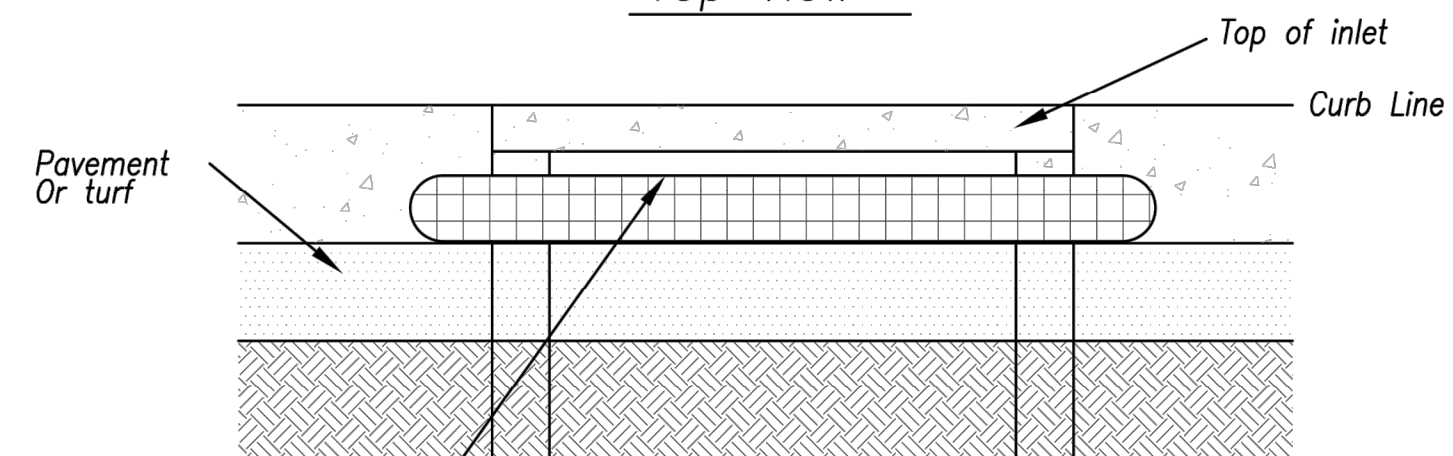
EARLY STAGE CURB INLET
(Open Box and Prior to Pouring Curb and Inlet Throat)



On Grade Curb Inlet Protection



Top View



Front View

Sump Inlet Sediment Filter

LATE STAGE CURB INLET
(After Pouring Curb and Inlet Throat)

Notes:

1. Immediately following inlet construction and prior to construction of curb and inlet throat, protect inlet opening by installing 2" X 10" (min.) board wrapped in silt fence. Structures shall have excavated storage area on all four sides to allow settling of sediment (Early Stage Curb Inlet).
2. When inlet is completed and curb poured, filter socks or approved equal should be used (Late Stage Curb Inlet). Straw wattles are not approved for curb inlet use.
3. Contractor to field verify ponding water shall not create a traffic hazard.

Maintenance:

1. Remove deposited sediment from excavated storage areas when available storage has been reduced by 20%.
2. Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
3. Repair or replace as necessary to maintain function and integrity of installation.

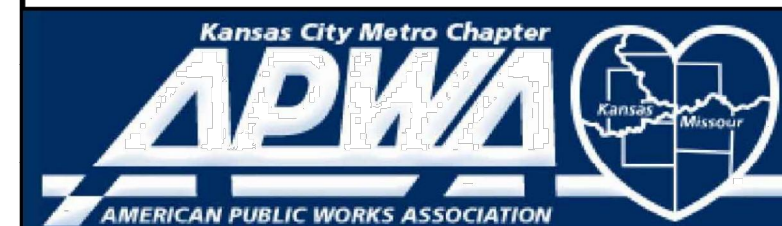


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STREETS OF WEST PRYOR
NW/4 NW PRYOR ROAD & NW LOWENSTEIN DRIVE
LEE'S SUMMIT, MISSOURI
PUBLIC STREET PLANS
EROSION CONTROL DETAIL SHEET

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METRO CHAPTER

CURB INLET PROTECTION

STANDARD DRAWING
NUMBER ESC-06

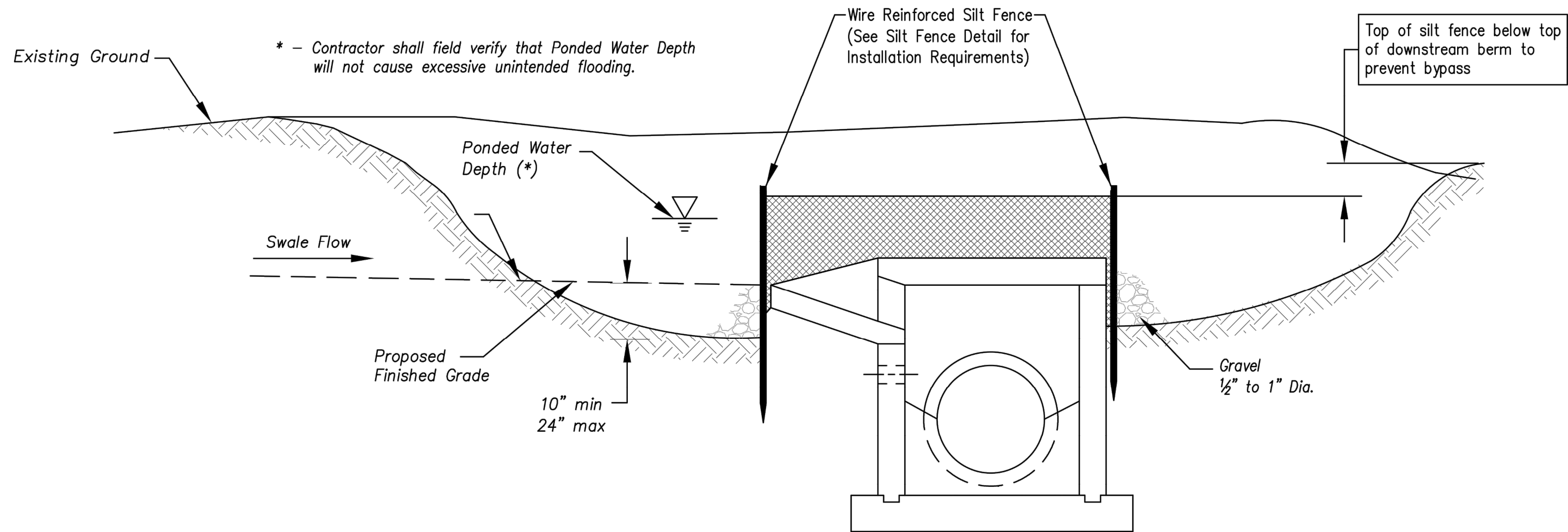
ADOPTED:
10/24/2016

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DESIGNER LDO
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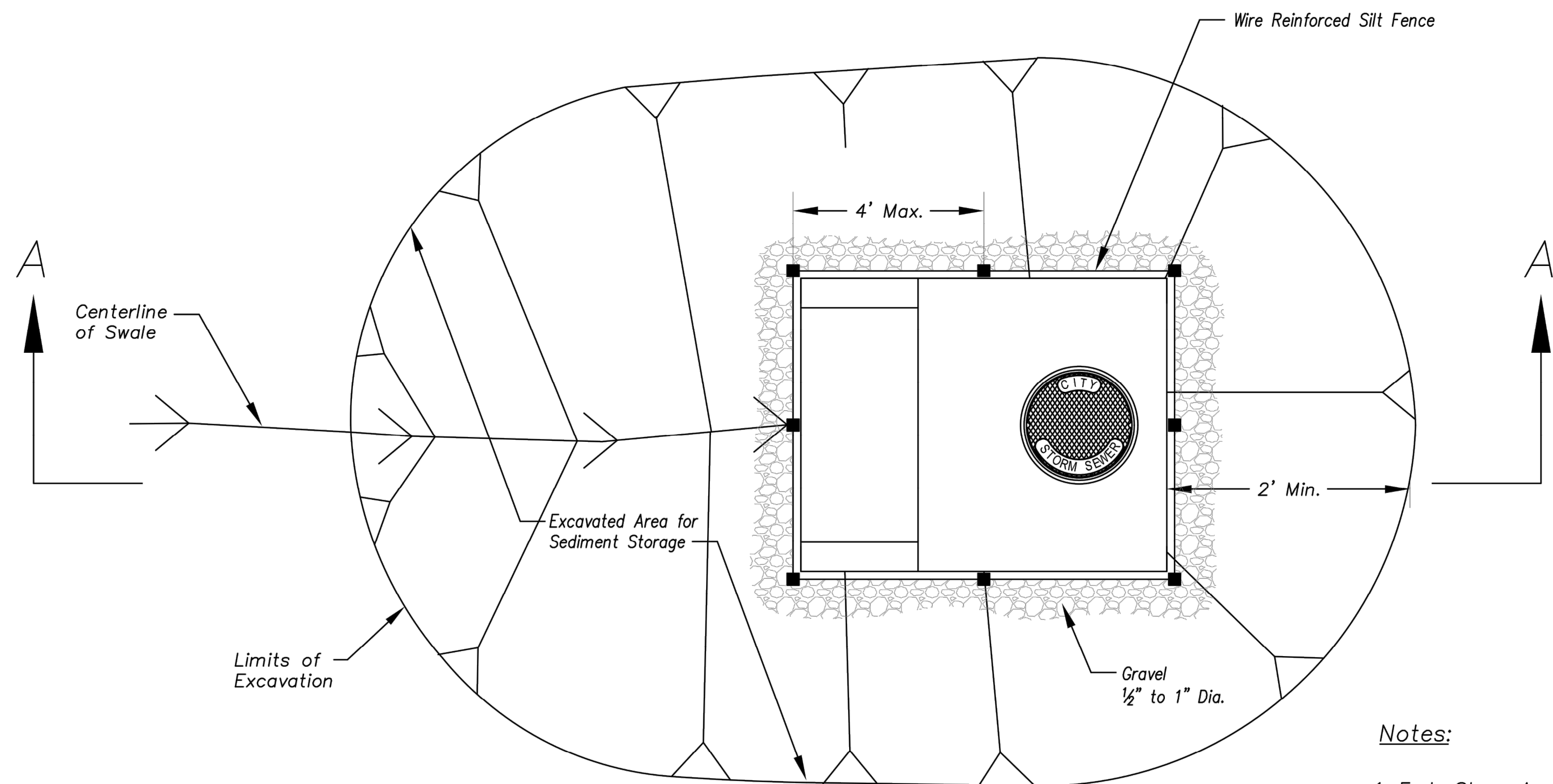
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SHEET

REV C-32
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Modified from 2015 Overland Park Standard Details
for Erosion and Sediment Control.



Section A-A
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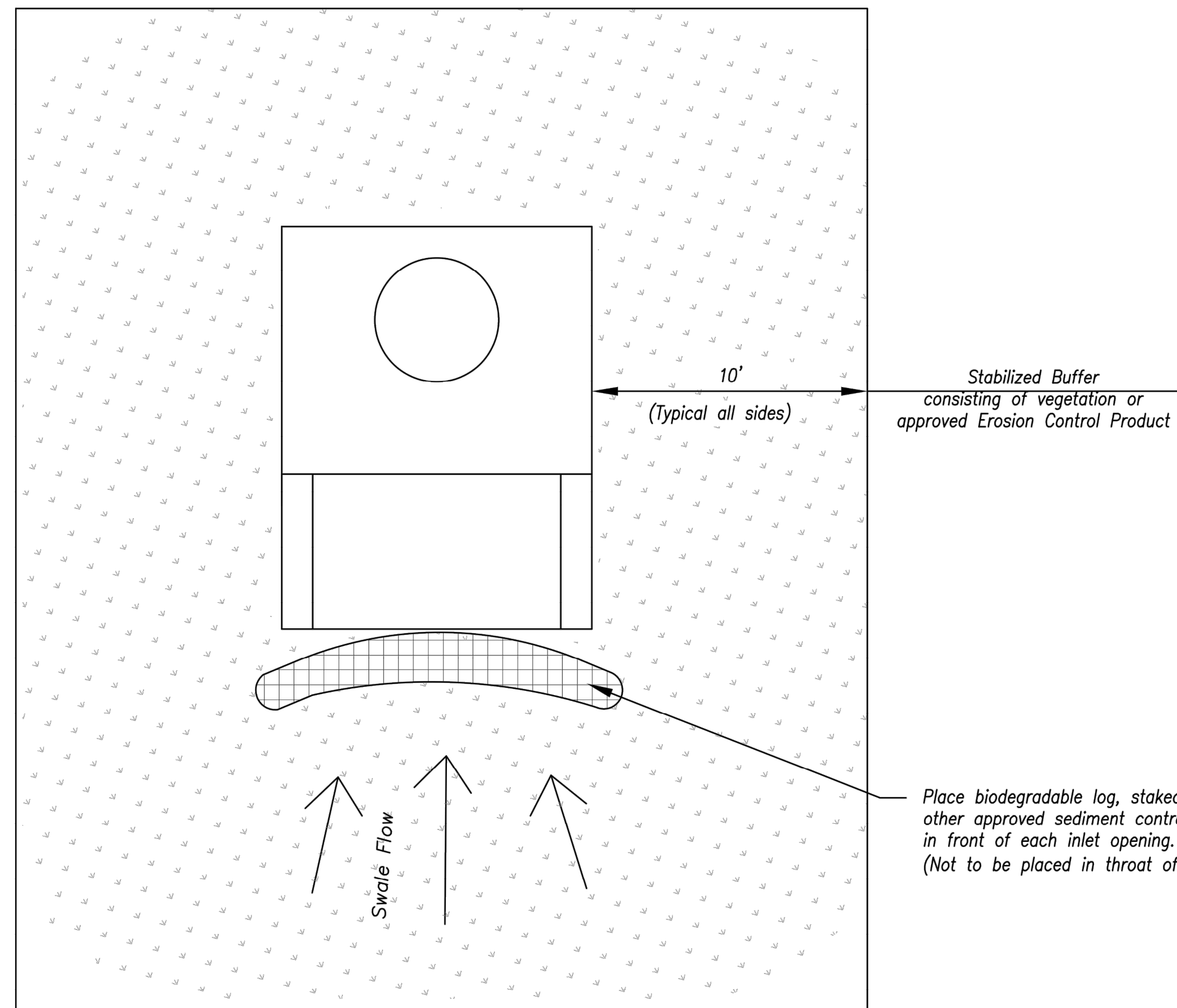


Plan
Not to Scale

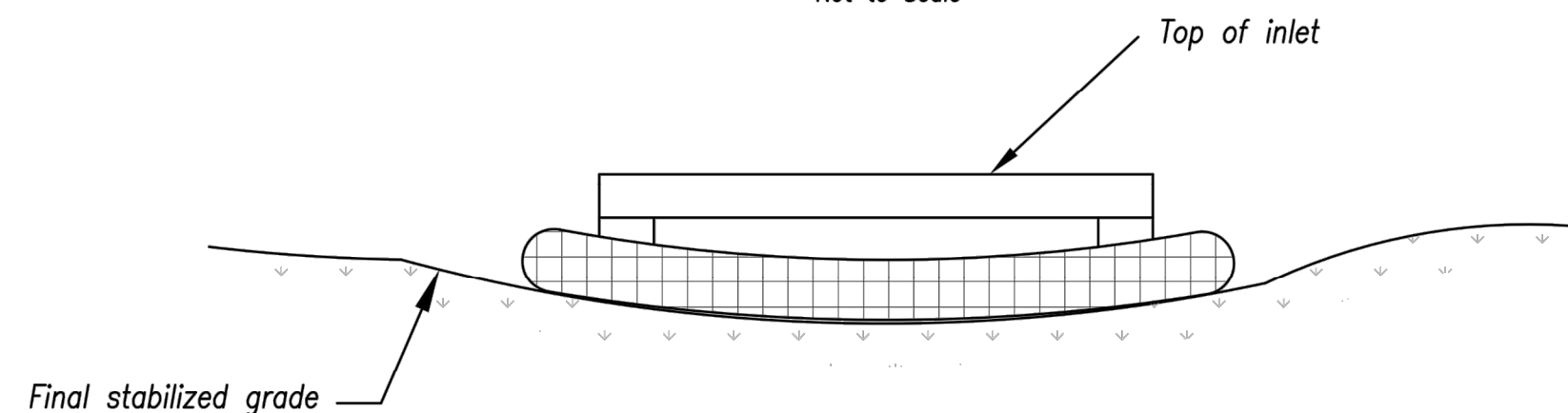
EARLY STAGE AREA INLET
(All open boxes and inlets not at final grade)

Notes:

1. Early Stage Area Inlet Sediment Barrier to be installed immediately after inlet or junction box is constructed.
2. Silt fence shall remain in place until excavated area is removed and Late Stage Area Inlet is being installed.
3. Backfill excavated area ONLY after final grading of the site. Stabilization of the site is to immediately follow.
4. Wire reinforced silt fence may be used in place of silt fence attached to wood frame.



Plan
Not to Scale



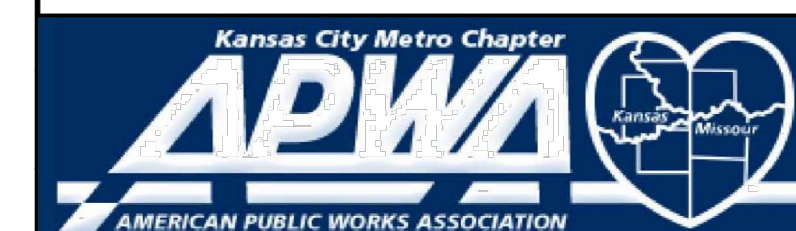
Front View

LATE STAGE AREA INLET
(Area inlets at final grade and existing inlets)

Maintenance:

1. Remove deposited sediment from excavated storage areas when available storage has been reduced by 20%.
2. Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
3. Repair or replace as necessary to maintain function and integrity of installation.

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METRO CHAPTER

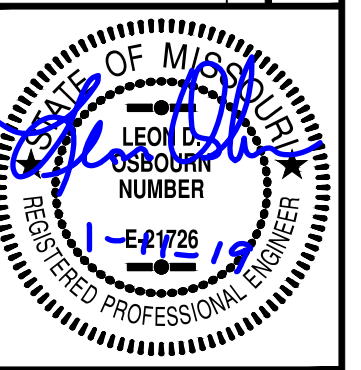
AREA INLET AND
JUNCTION BOX PROTECTION

STANDARD DRAWING
NUMBER ESC-07
ADOPTED:
10/24/2016

STREETS OF WEST PRYOR
NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE
LEE'S SUMMIT, MISSOURI

PUBLIC STREET PLANS
EROSION CONTROL DETAIL SHEET

PROJ. NO.	A14_7061-1
DESIGNER	LDO
DRAWN BY	JT/BKR
CFN	7067-1PI_DET
SHEET	C-33
REV	0

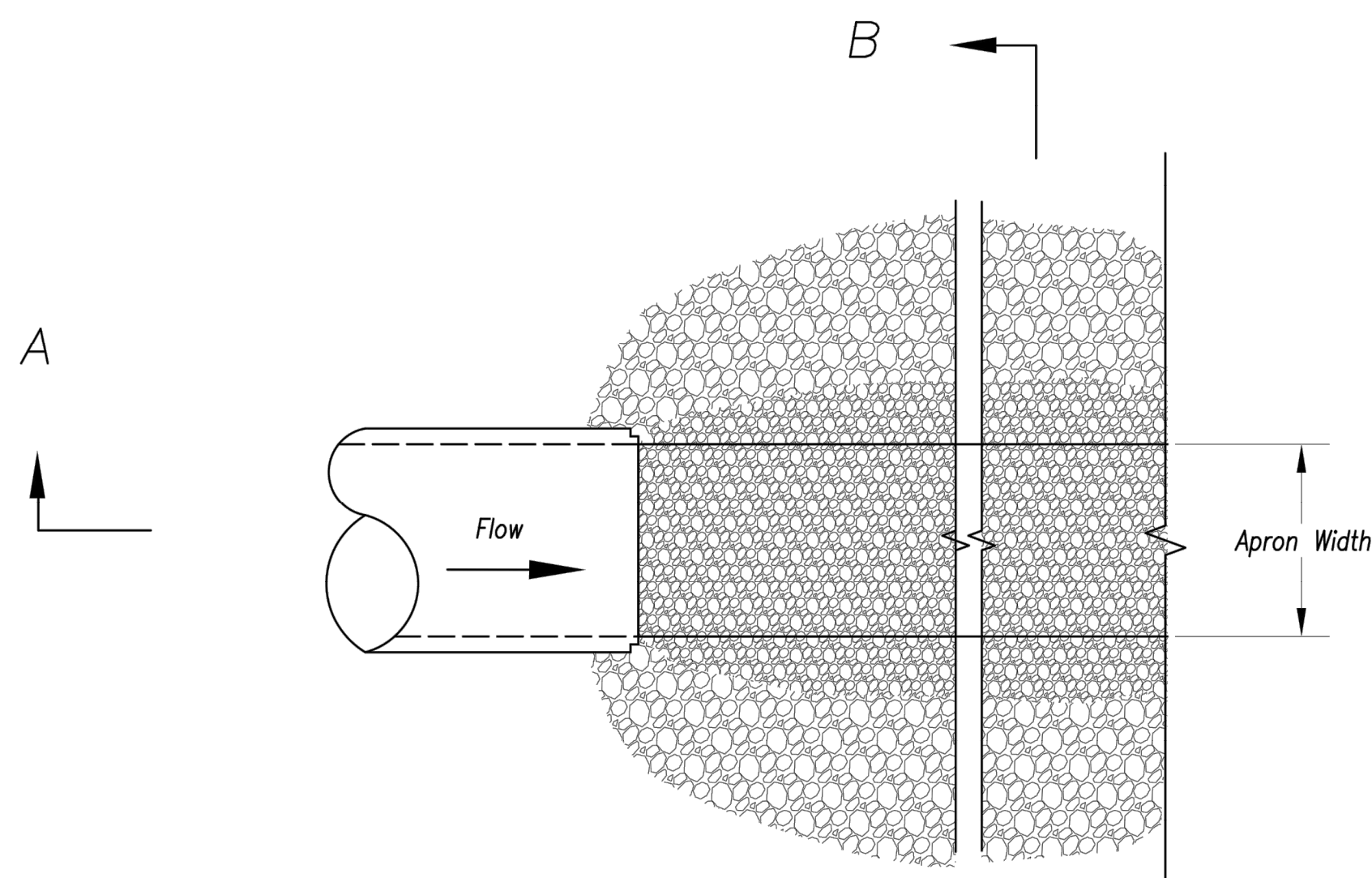


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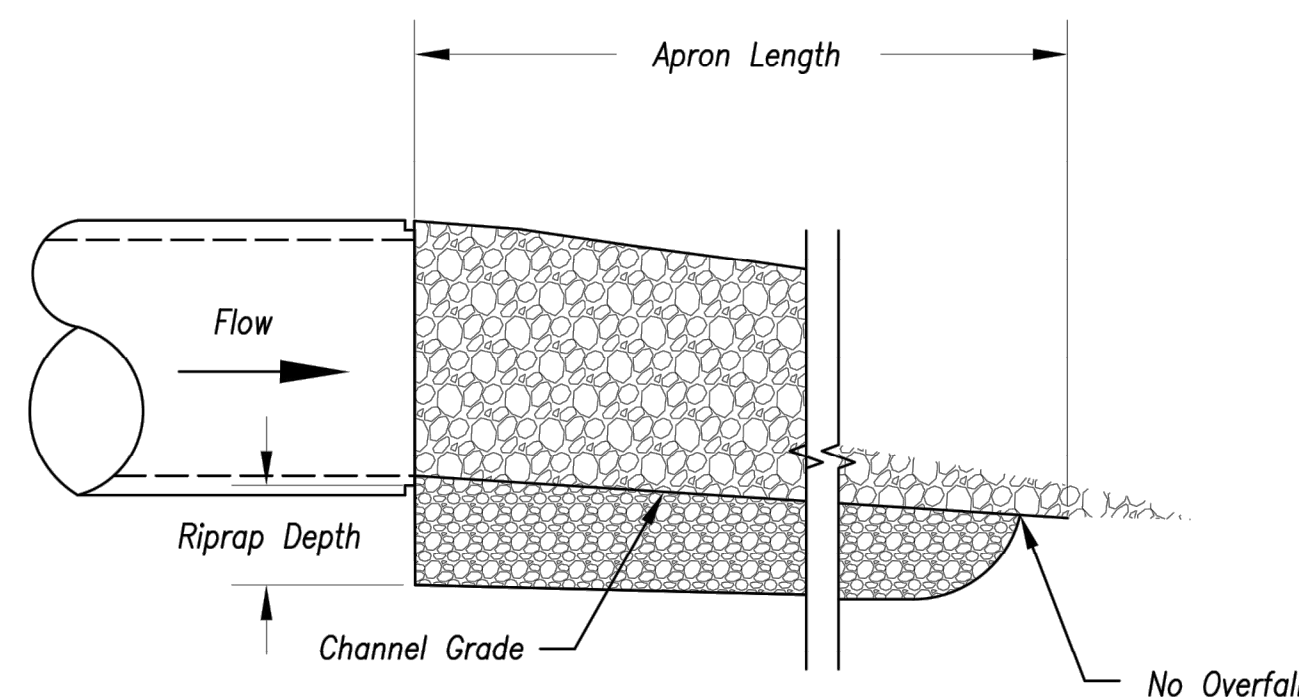
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EXPIRES 12/31/19

REV	DATE	DESCRIPTION
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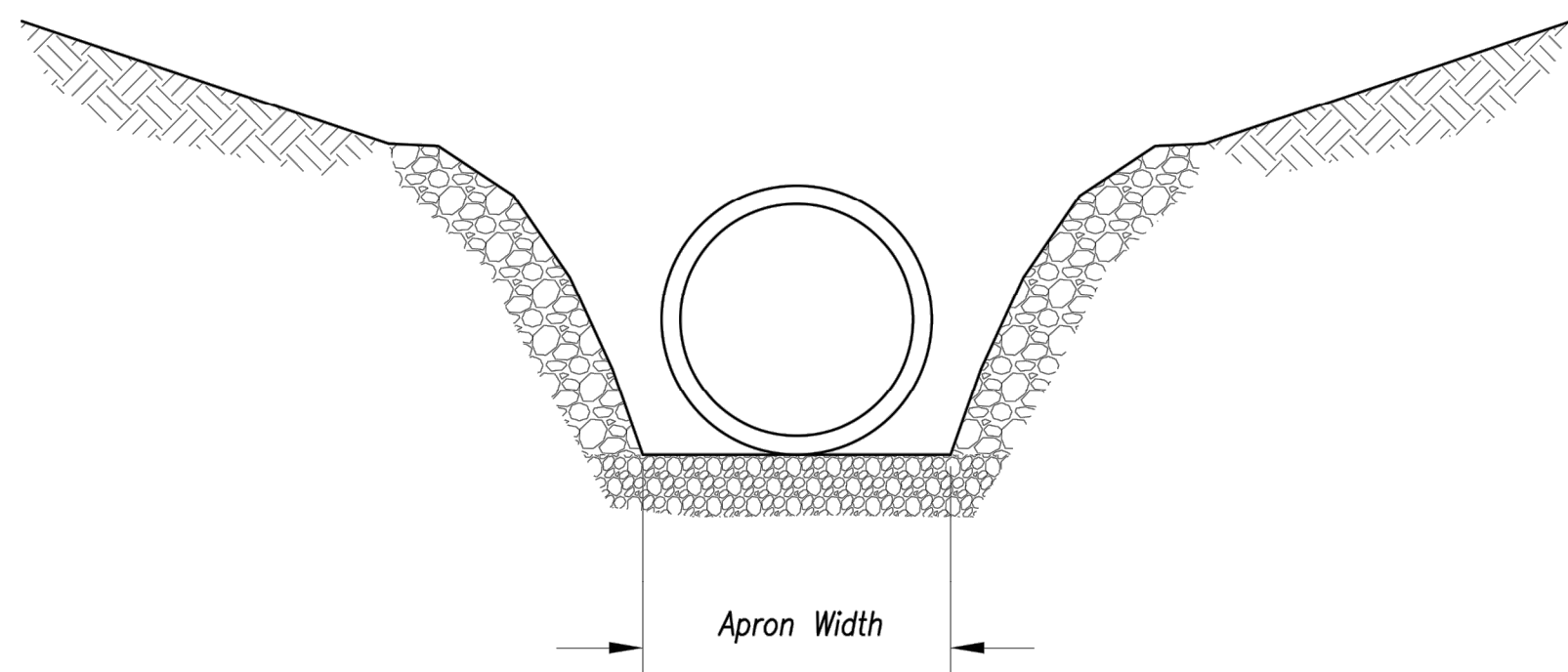
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JT			



Plan View
Not to Scale

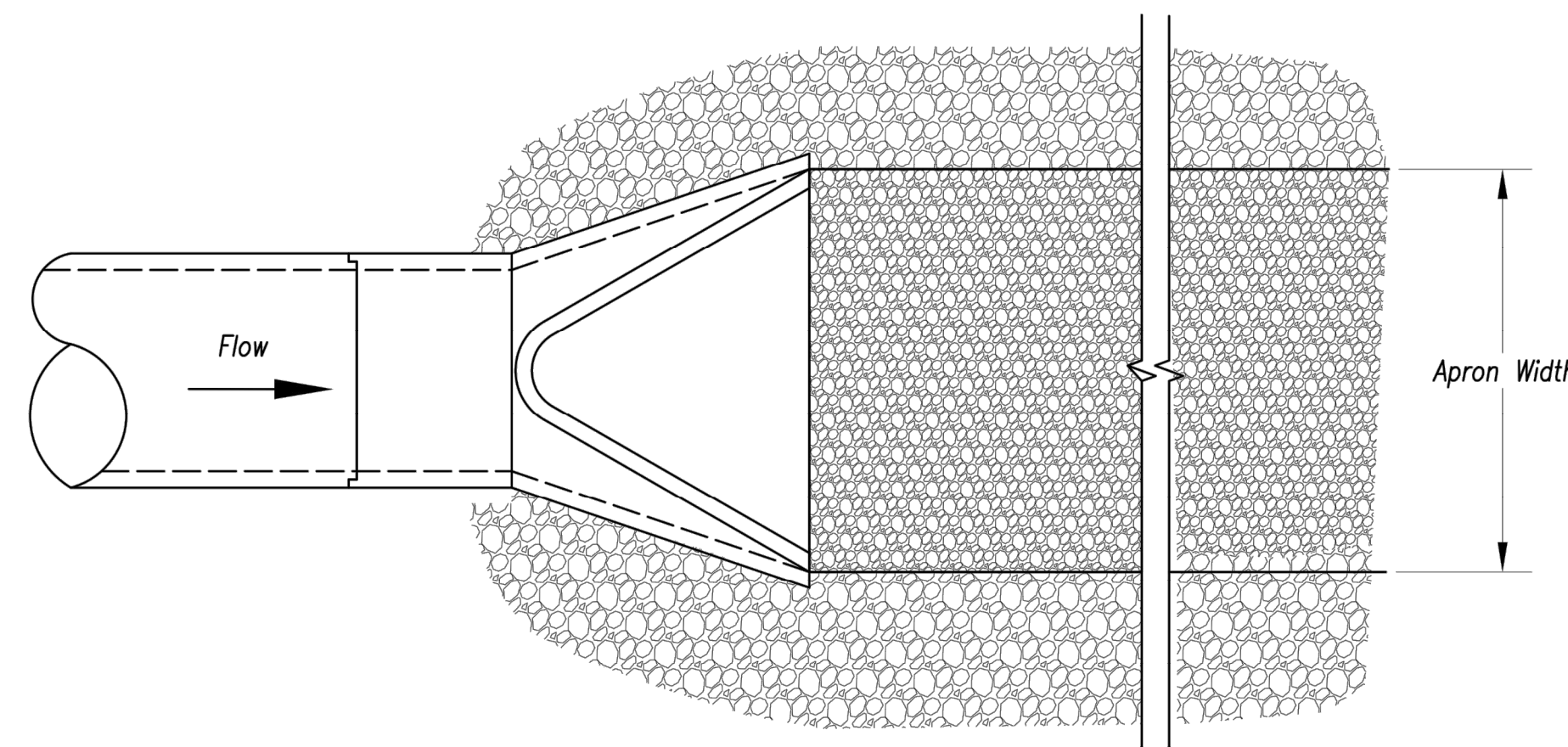
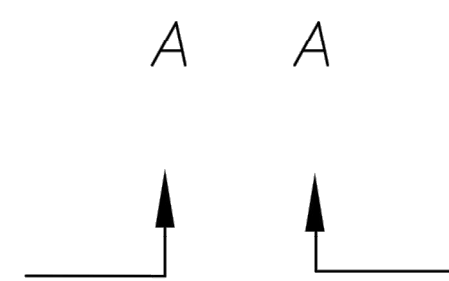


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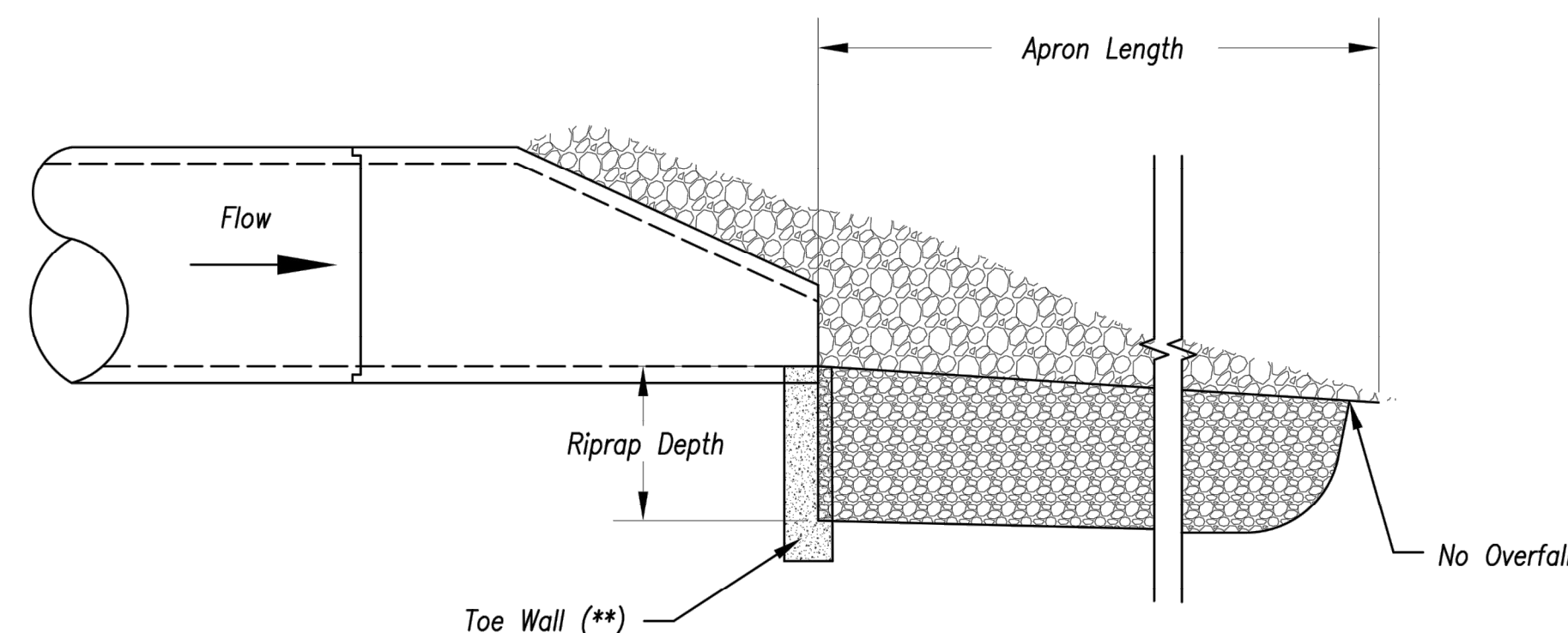


Section B-B
Not to Scale

OUTLET PROTECTION W/O END SECTION



Plan View
Not to Scale



Section A-A
Not to Scale

OUTLET PROTECTION WITH END SECTION

Notes:

1. Rock all sides steeper than 3:1.
2. Stabilize all disturbed areas downstream of outlet to the limits of disturbance.
3. Alternative outlet protection and slope stabilization measures may be used with approval by the Engineer.
4. Install riprap apron so that it is no higher than flowline of pipe.
5. Reference APWA Specification 2650 for rock type, size, and placement.

Modified from 2015 Overland Park Standard Details
for Erosion and Sediment Control.

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KANSAS CITY
METRO CHAPTER

OUTLET PROTECTION

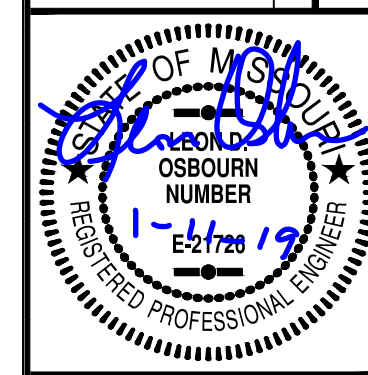
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NUMBER ESC-I4

ADOPTED:
10/24/2016

STREETS OF WEST PRYOR
NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE
LEE'S SUMMIT, MISSOURI

PUBLIC STREET PLANS
EROSION CONTROL DETAIL SHEET

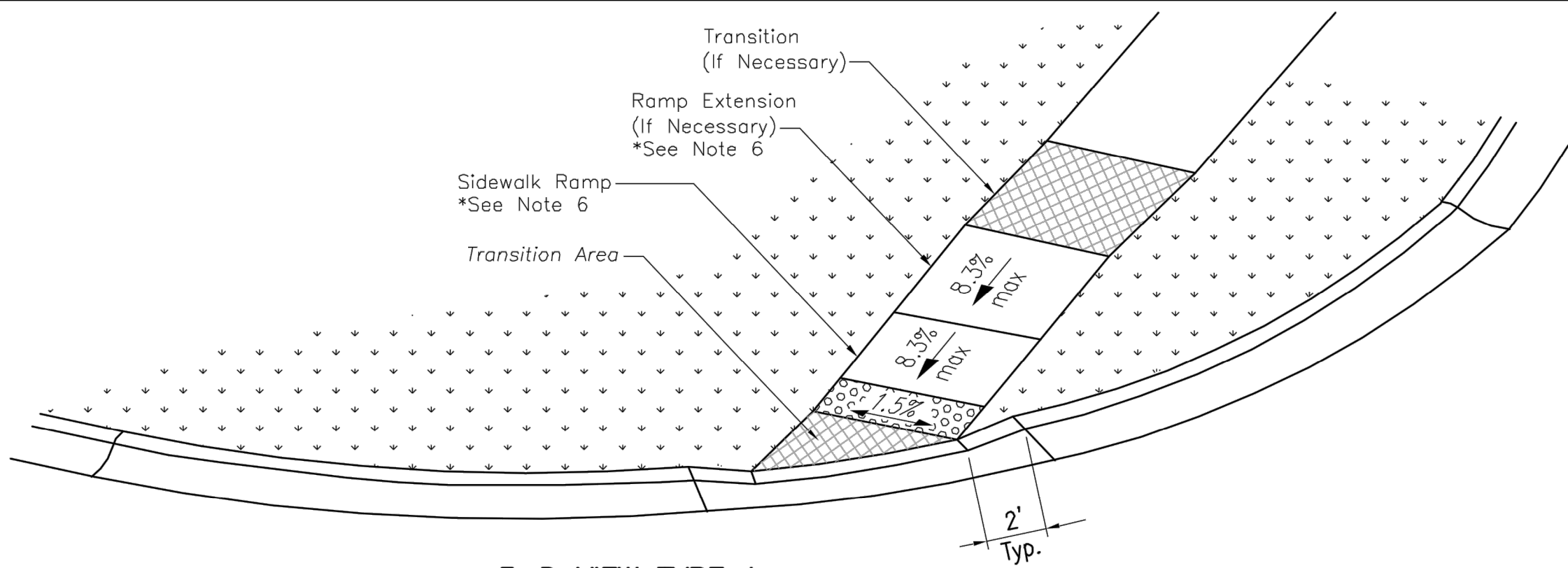
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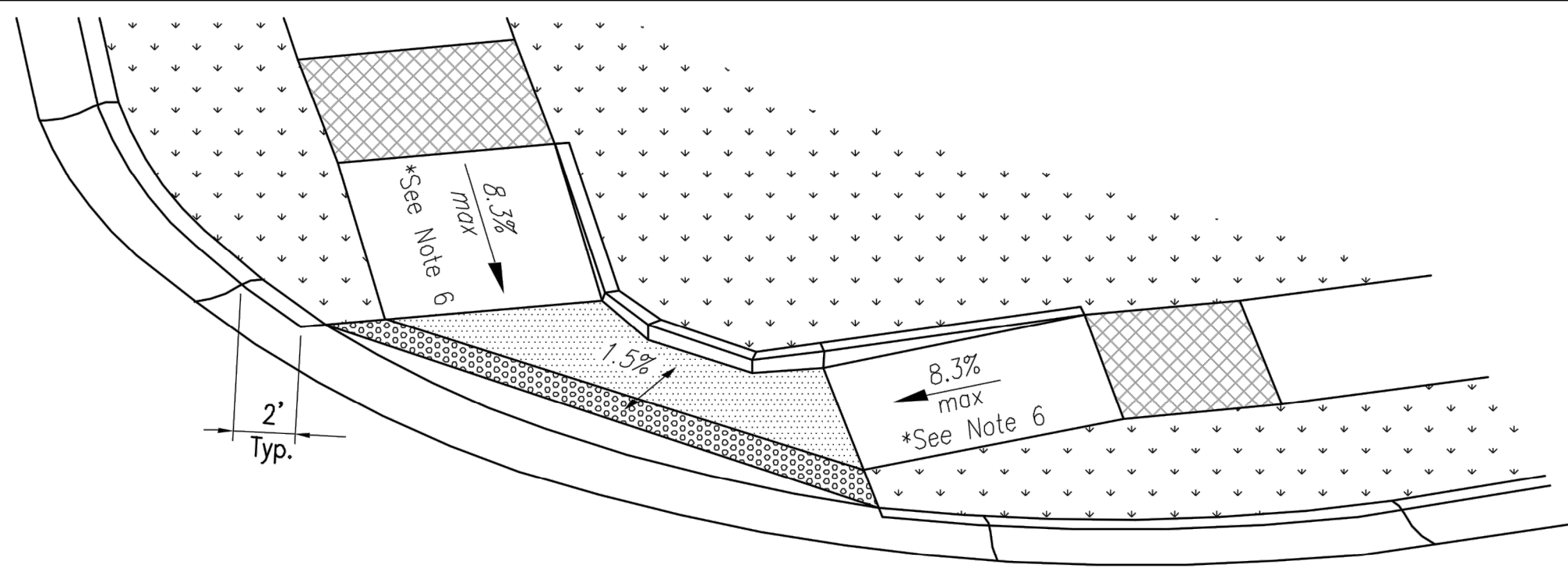
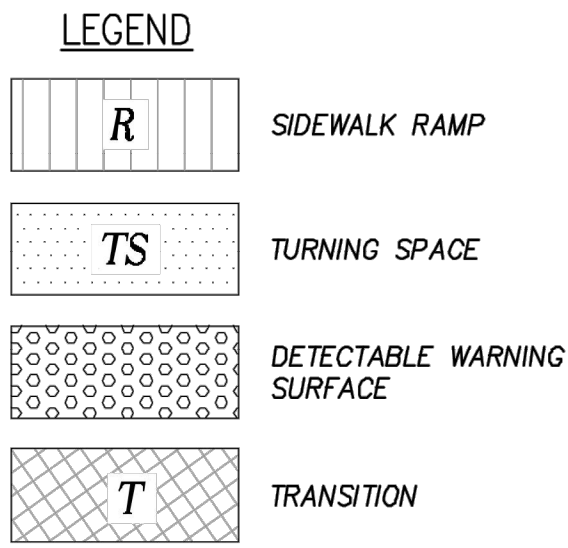
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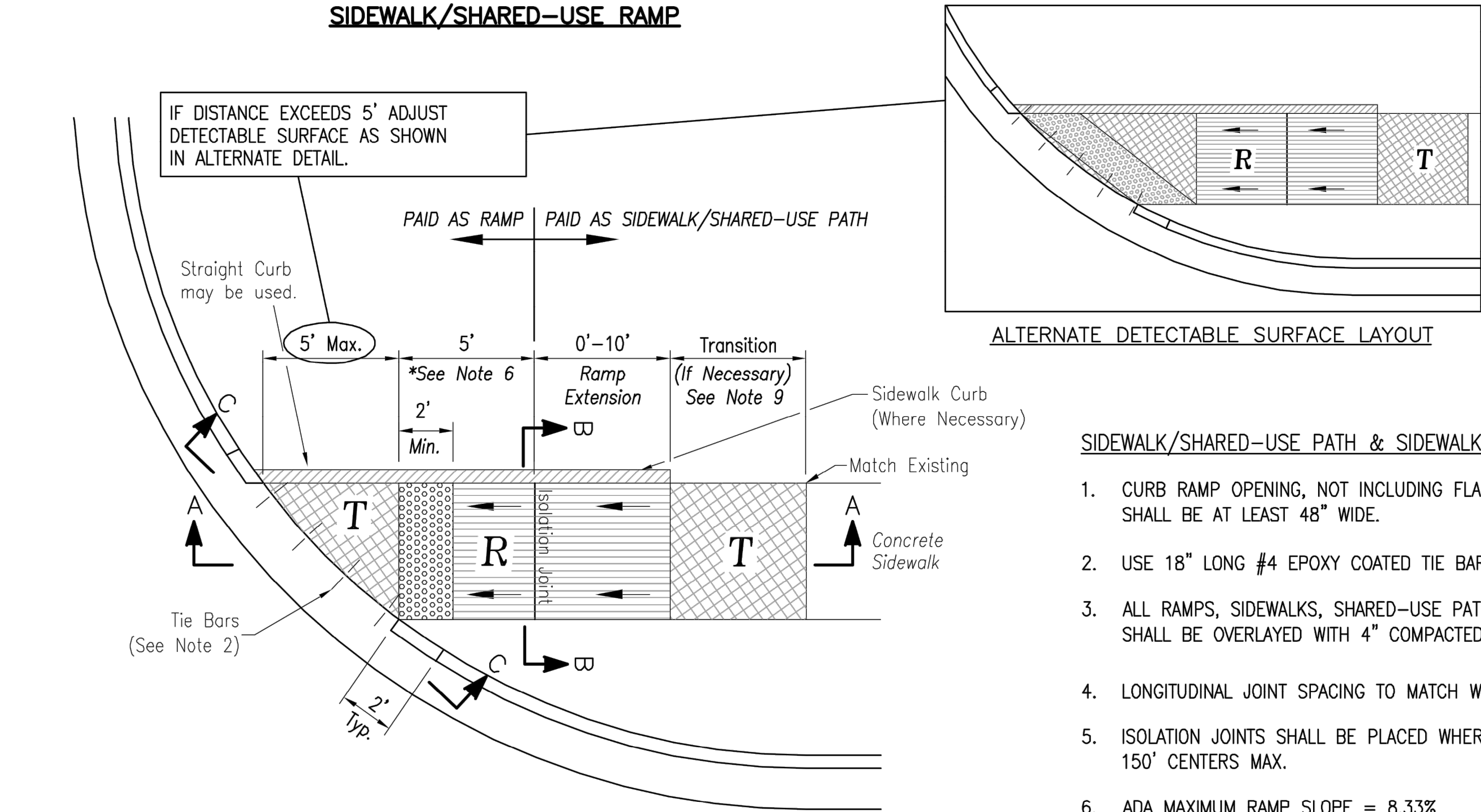
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3-D VIEW TYPE A
SIDEWALK/SHARED-USE RAMP



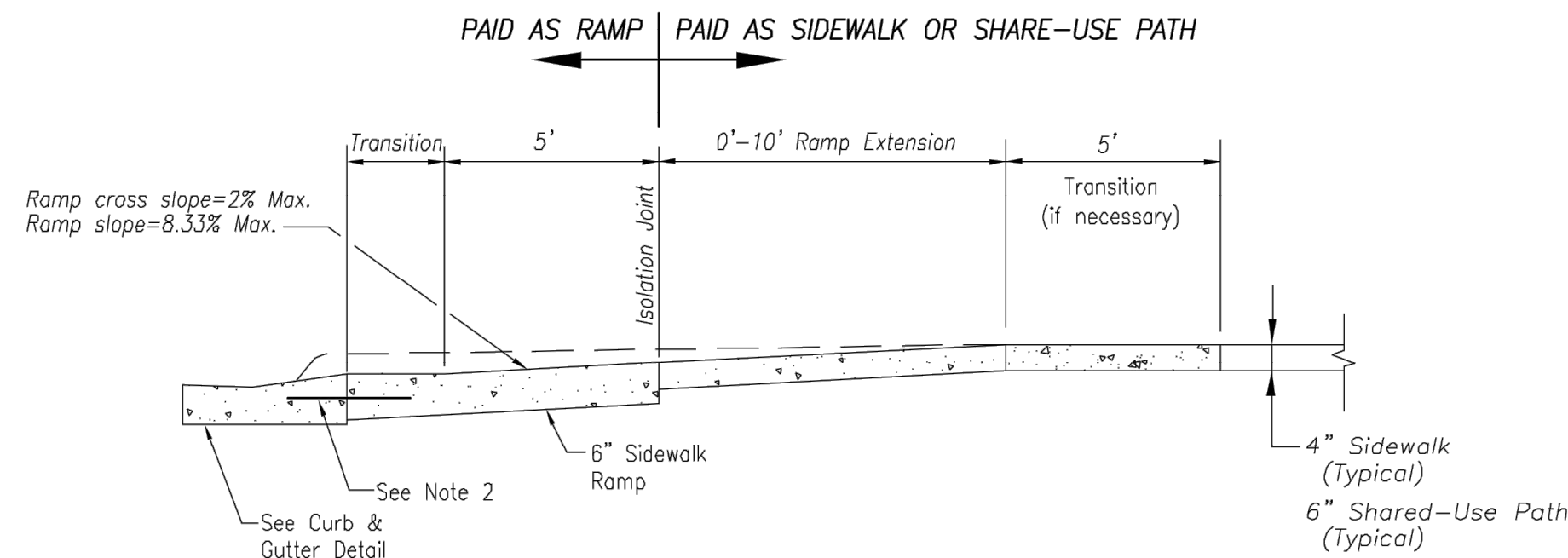
3-D VIEW TYPE B
SIDEWALK/SHARED-USE RAMP



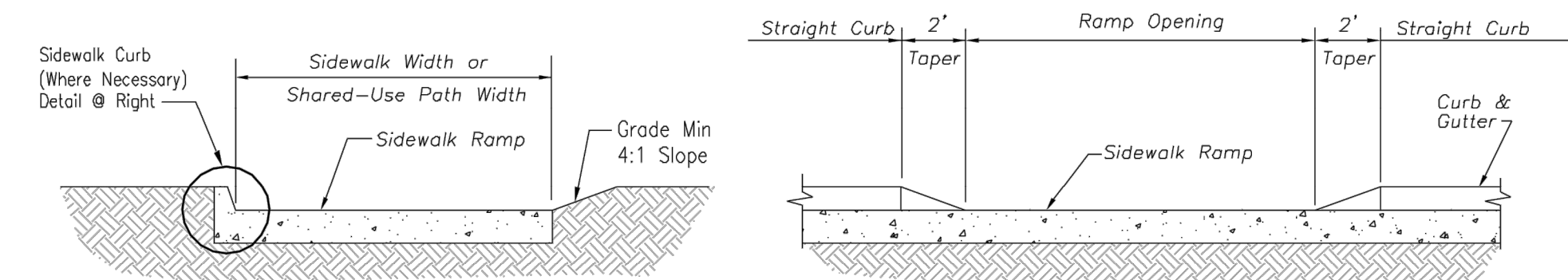
TYPE A SIDEWALK/SHARED-USE RAMP
Not to Scale

SIDEWALK/SHARED-USE PATH & SIDEWALK/SHARED-USE RAMP NOTES:

1. CURB RAMP OPENING, NOT INCLUDING FLARES, SHALL MATCH EXISTING SIDEWALK WIDTH AND OPENING SHALL BE AT LEAST 48" WIDE.
2. USE 18" LONG #4 EPOXY COATED TIE BARS @ 24" O.C. EMBED TIE BARS 9" IN EACH DIRECTION.
3. ALL RAMPS, SIDEWALKS, SHARED-USE PATHS SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
4. LONGITUDINAL JOINT SPACING TO MATCH WIDTH OF SIDEWALK.
5. ISOLATION JOINTS SHALL BE PLACED WHERE WALK ABUTS DRIVEWAYS AND SIMILAR STRUCTURES, AND 150' CENTERS MAX.
6. ADA MAXIMUM RAMP SLOPE = 8.33%
ADA MAXIMUM CROSS SLOPE = 2.0%
*ROADWAY EXCEPTION: WHERE EXISTING ROAD PROFILE GRADE DOES NOT ALLOW RAMP TO MEET RAMP SLOPE REQUIREMENT OF 8.33% OR LESS, THE RAMP SHALL BE EXTENDED TO A LENGTH OF 15 FEET TO MATCH EXISTING SIDEWALK. CROSS SLOPE OF RAMP SHALL BE 1.5%, ±0.5%.
7. TURNING SPACES SHALL BE 1.5%, ±0.5%, SLOPE IN ANY DIRECTION. TURNING SPACES SHALL HAVE A MINIMUM 4'x4' TURNING AREA. TURNING SPACES, WITH A SIDEWALK CURB, SHALL HAVE A 5' TURNING AREA PERPENDICULAR TO THE SIDEWALK CURB.
8. FOR RETROFIT WORK, SLOPES TO BE DETERMINED IN FIELD BY CONTRACTOR AND APPROVED BY CITY INSPECTOR
9. RAMP EXTENSION AREA SHALL NOT BE USED AS TRANSITION TO EXISTING SIDEWALK. ANY TRANSITIONS REQUIRED TO MATCH RAMPS TO EXISTING SIDEWALK SHALL REQUIRE REMOVAL AND REPLACEMENT OF ADDITIONAL SIDEWALK BEYOND THE RAMP AREA. SIDEWALK TRANSITION LENGTH SHALL BE EQUAL TO OR GREATER THAN THE WIDTH OF THE EXISTING SIDEWALK. RAMP EXTENSIONS SHALL BE A CONTINUOUS SLOPE.
10. ALL SIDEWALK AND RAMP CONSTRUCTION SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).



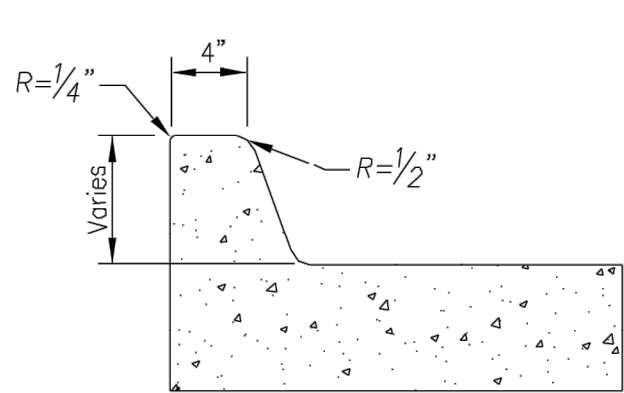
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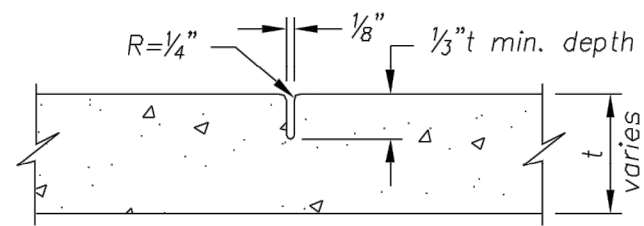
SECTION B-B

SECTION C-C

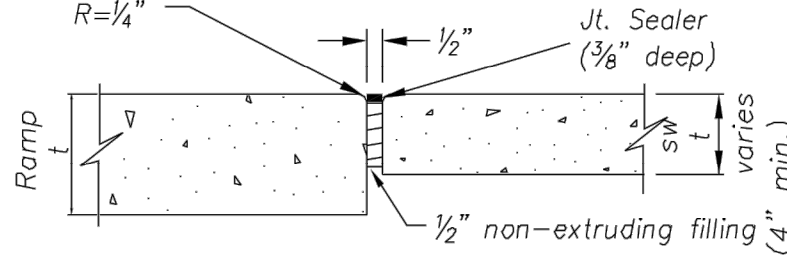
TYPE A & B SIDEWALK RAMP
Not to Scale



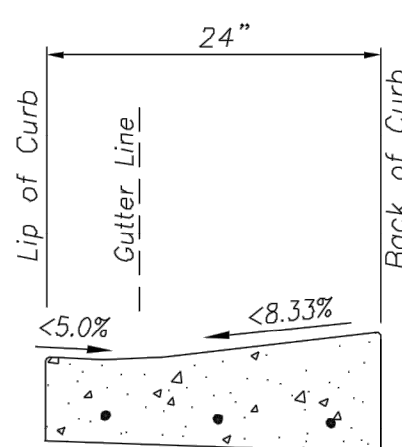
SIDEWALK CURB DETAIL
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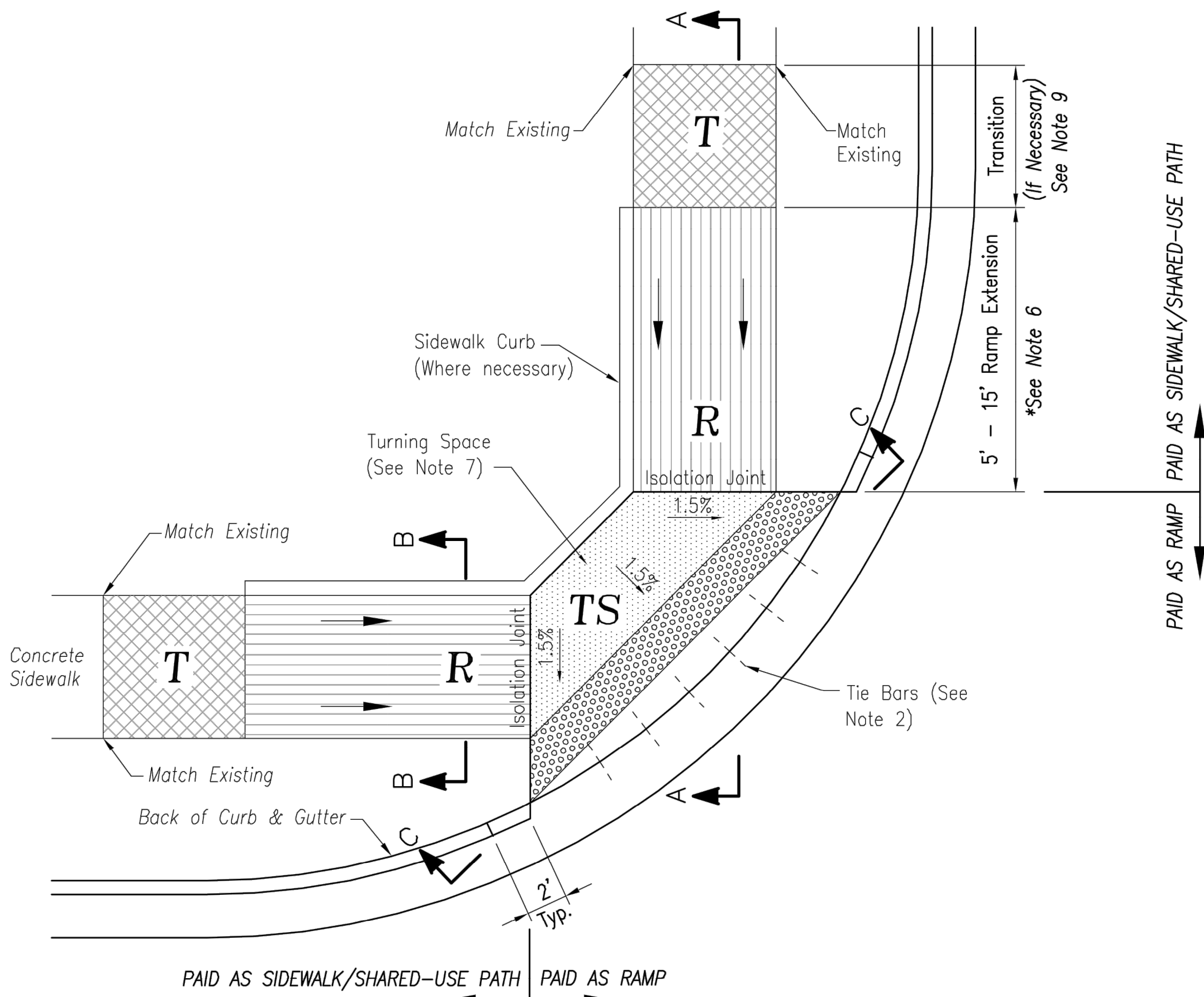
CONTRACTION JOINT



ISOLATION JOINT



CURB & GUTTER DETAIL AT RAMP
Not to Scale



TYPE B SIDEWALK/SHARED-USE RAMP
Not to Scale

LEE'S SUMMIT
MISSOURI

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Name: ADA RAMP RETROFIT DETAIL

Drawn By: MJF
Checked By: DL
Date: 04/17
Proj. #:

GEN-3A

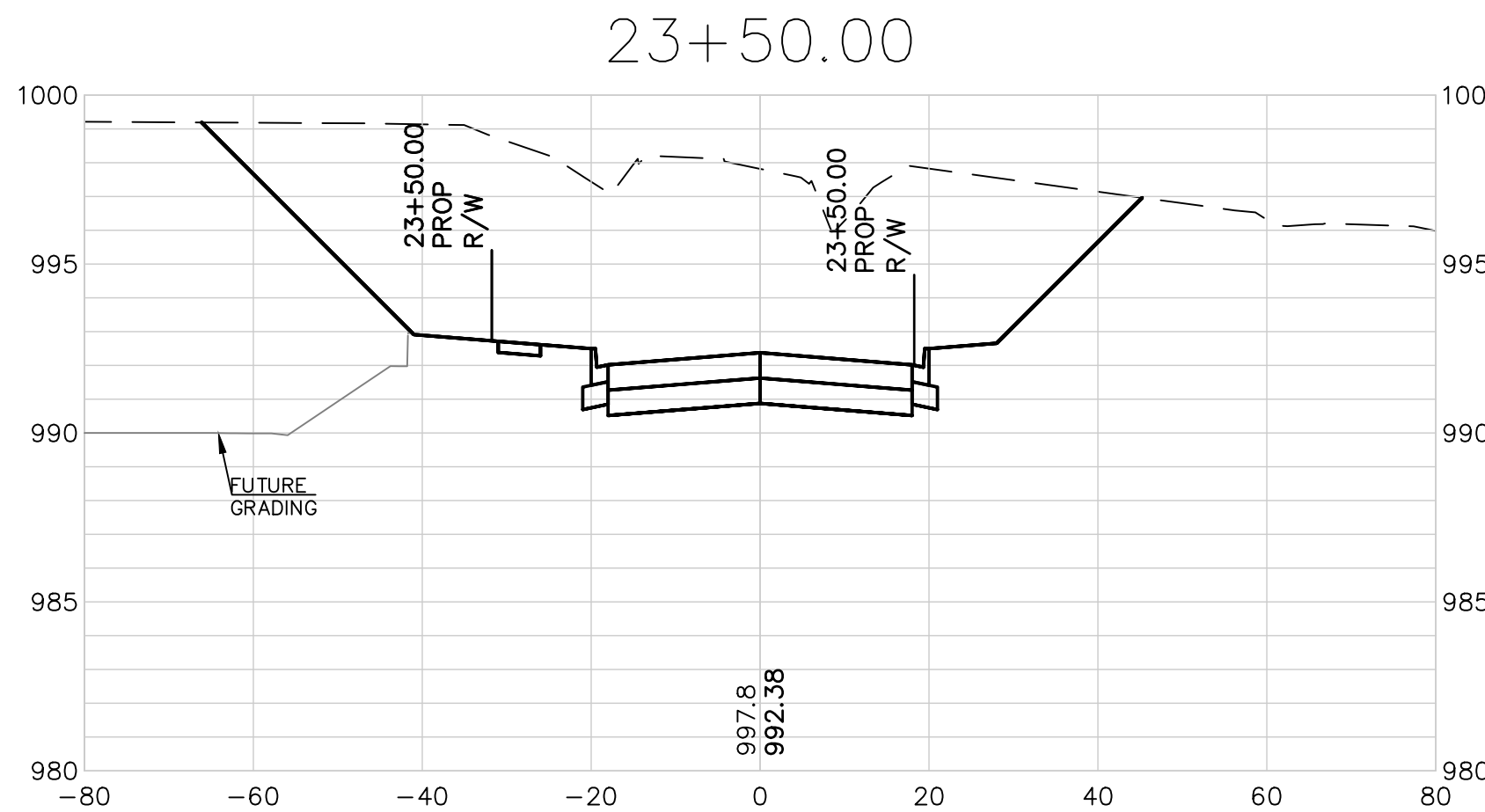
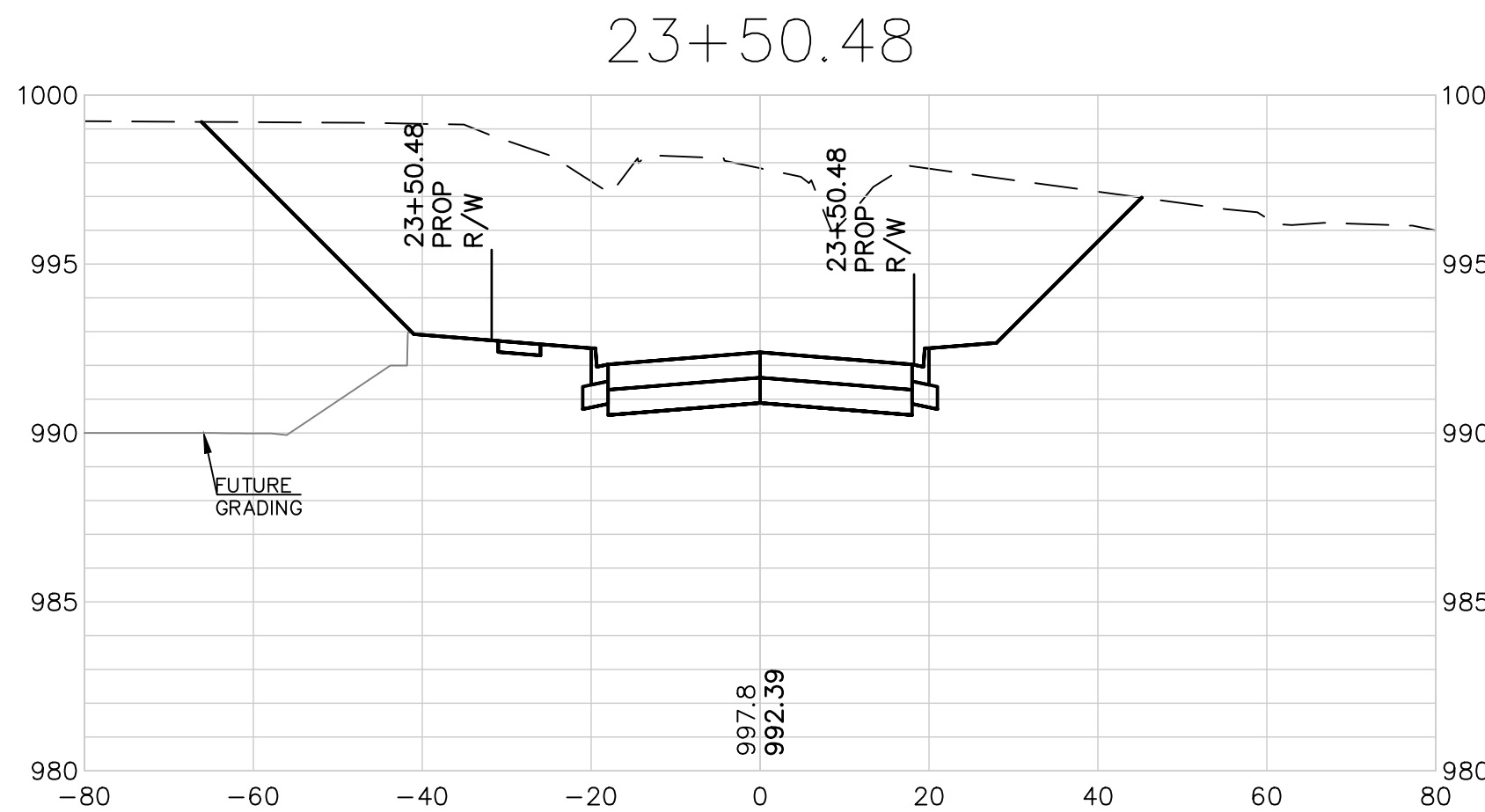
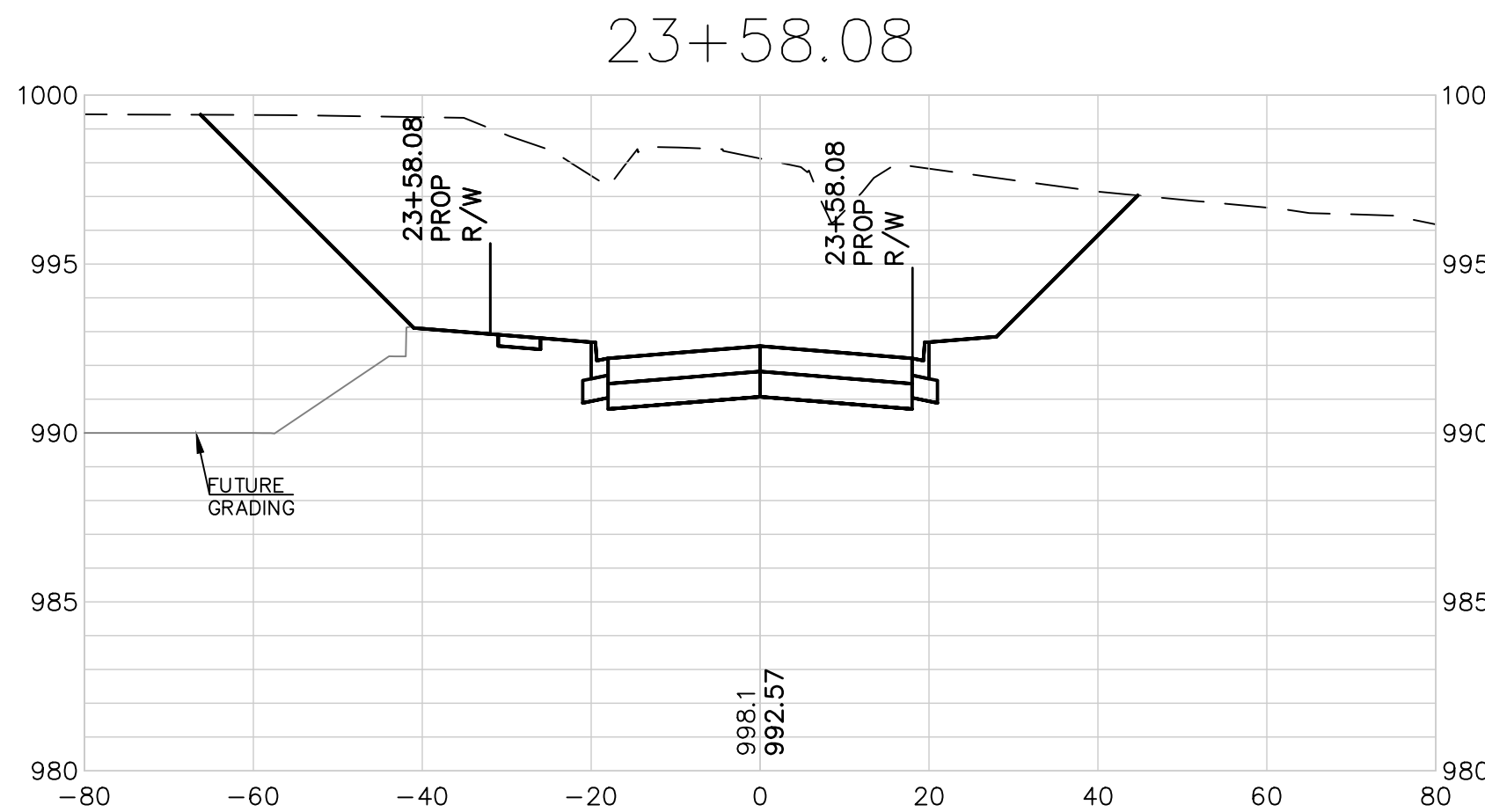
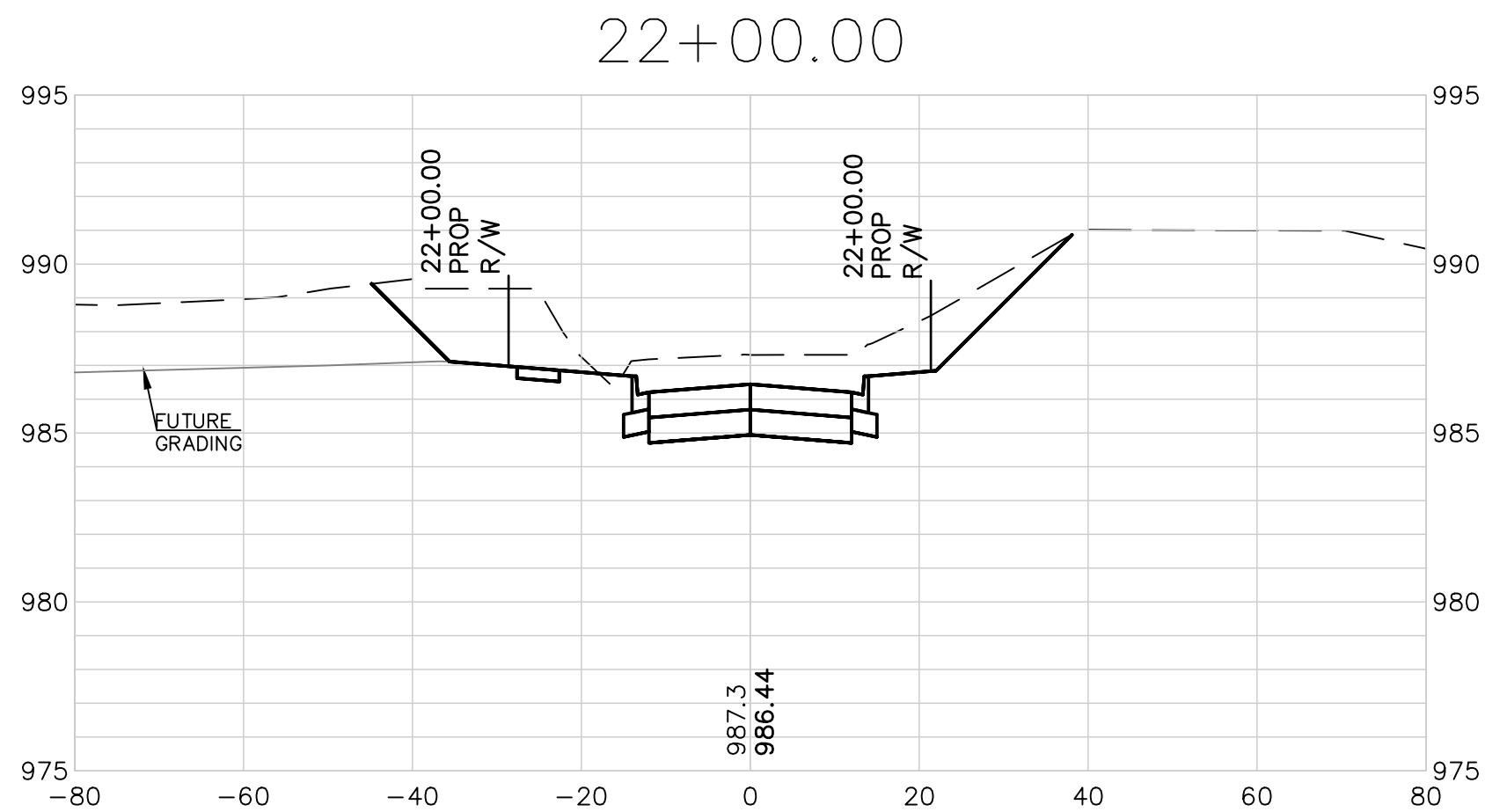
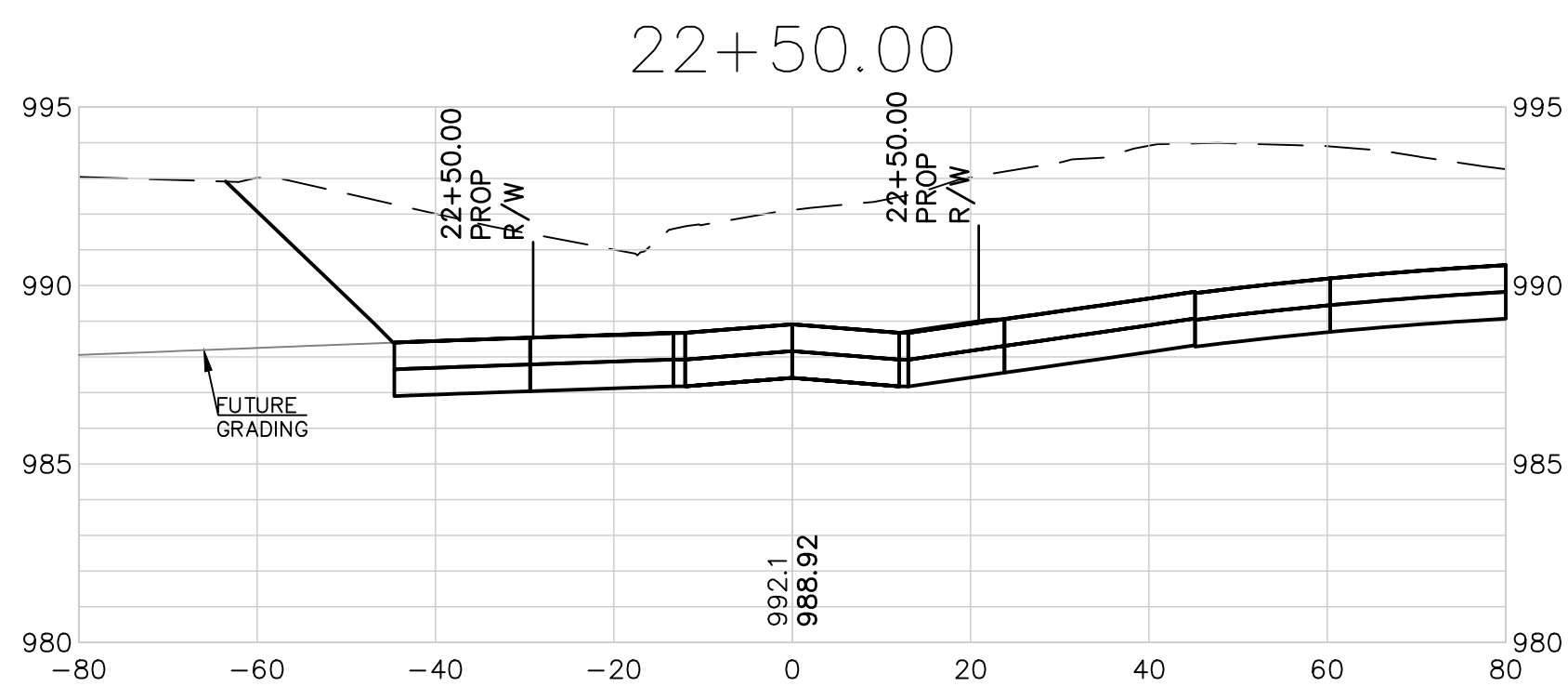
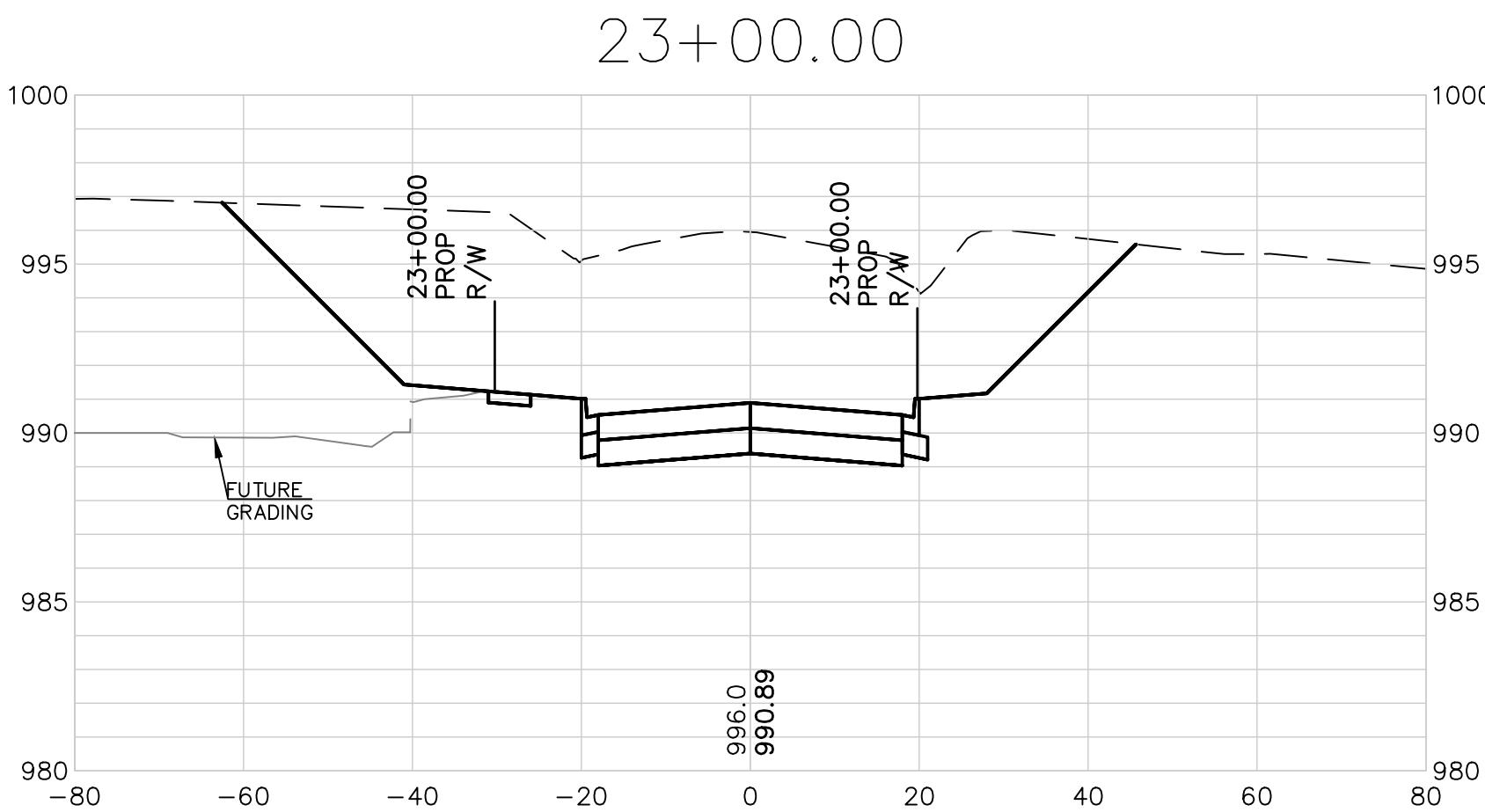
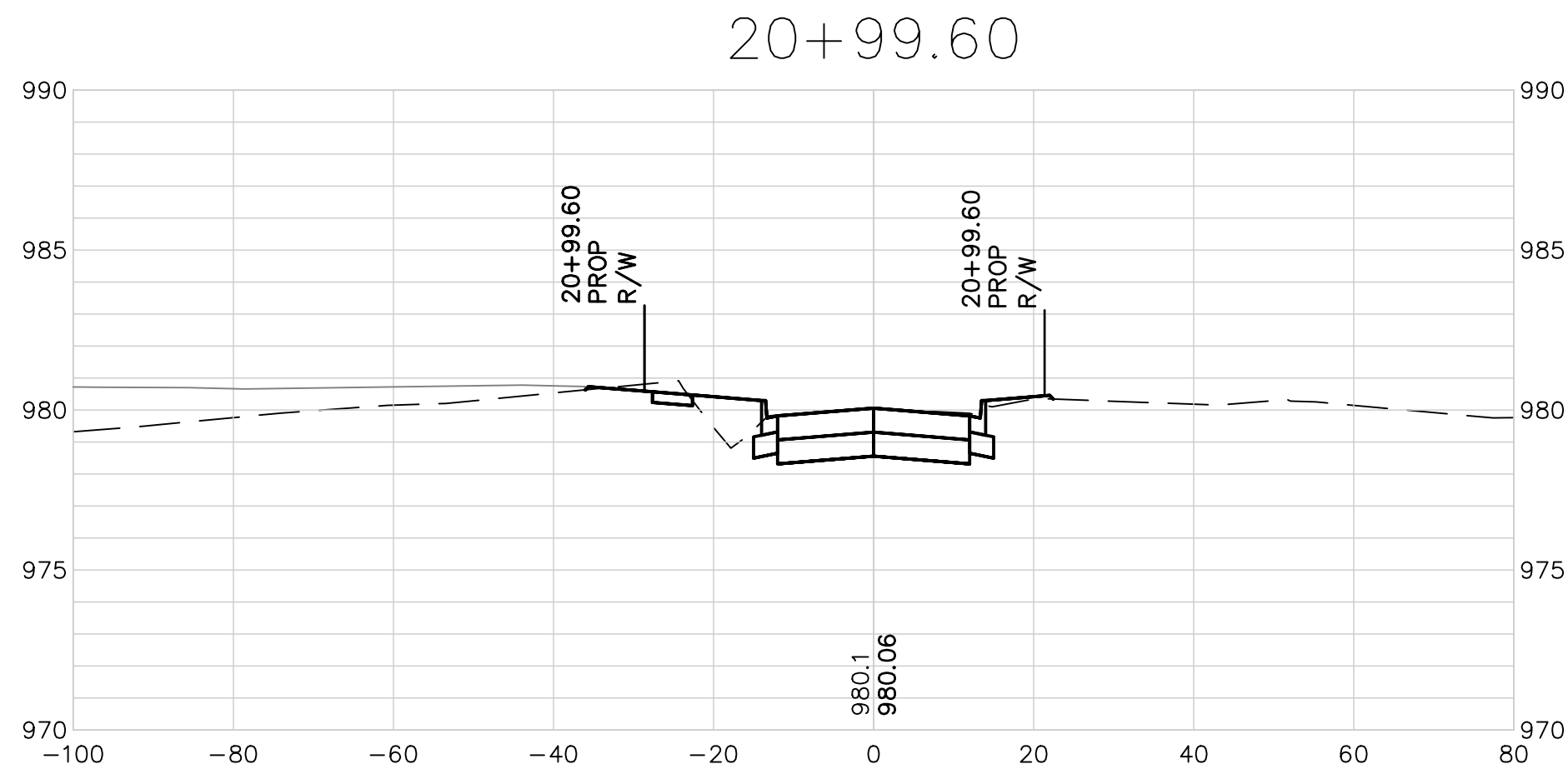
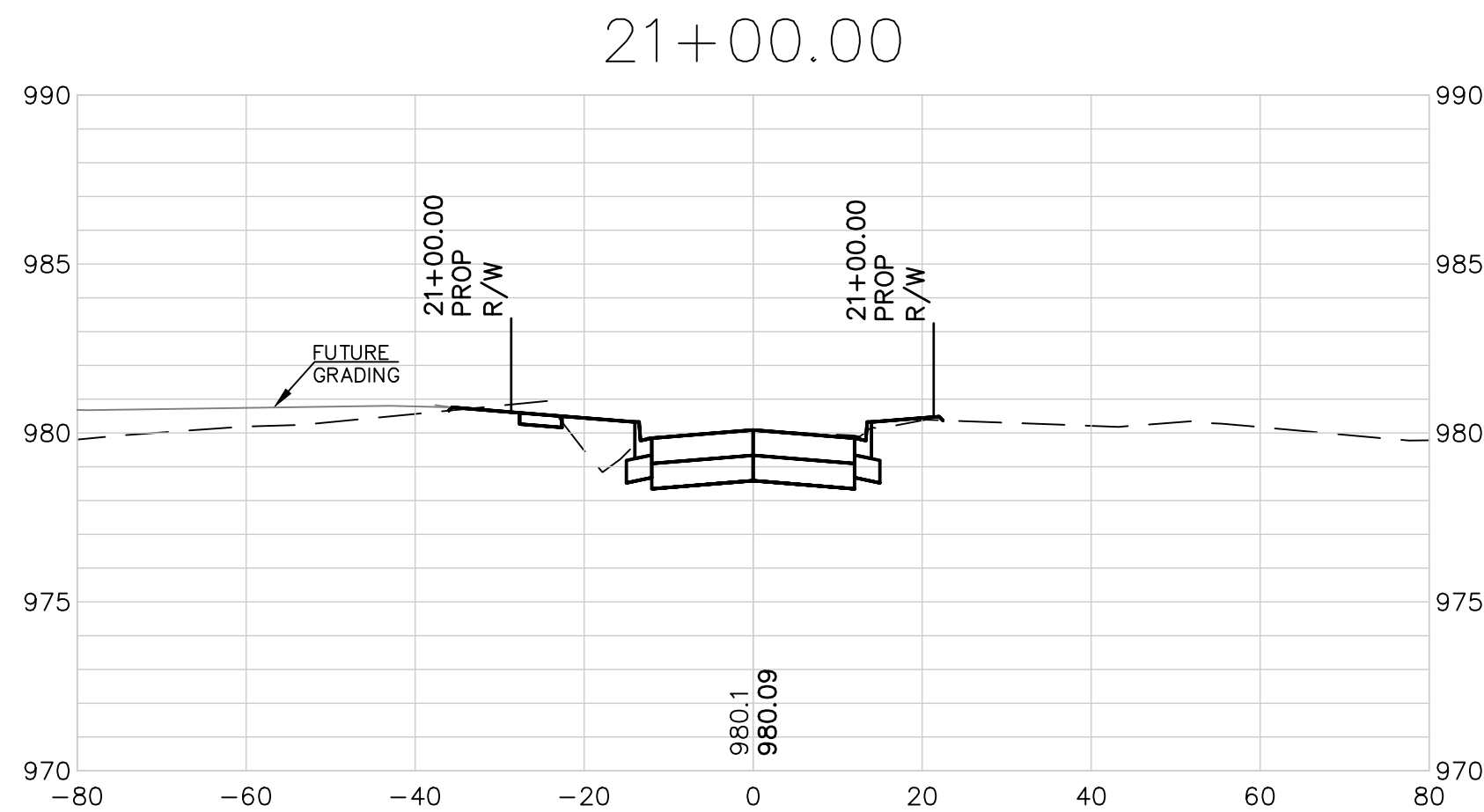
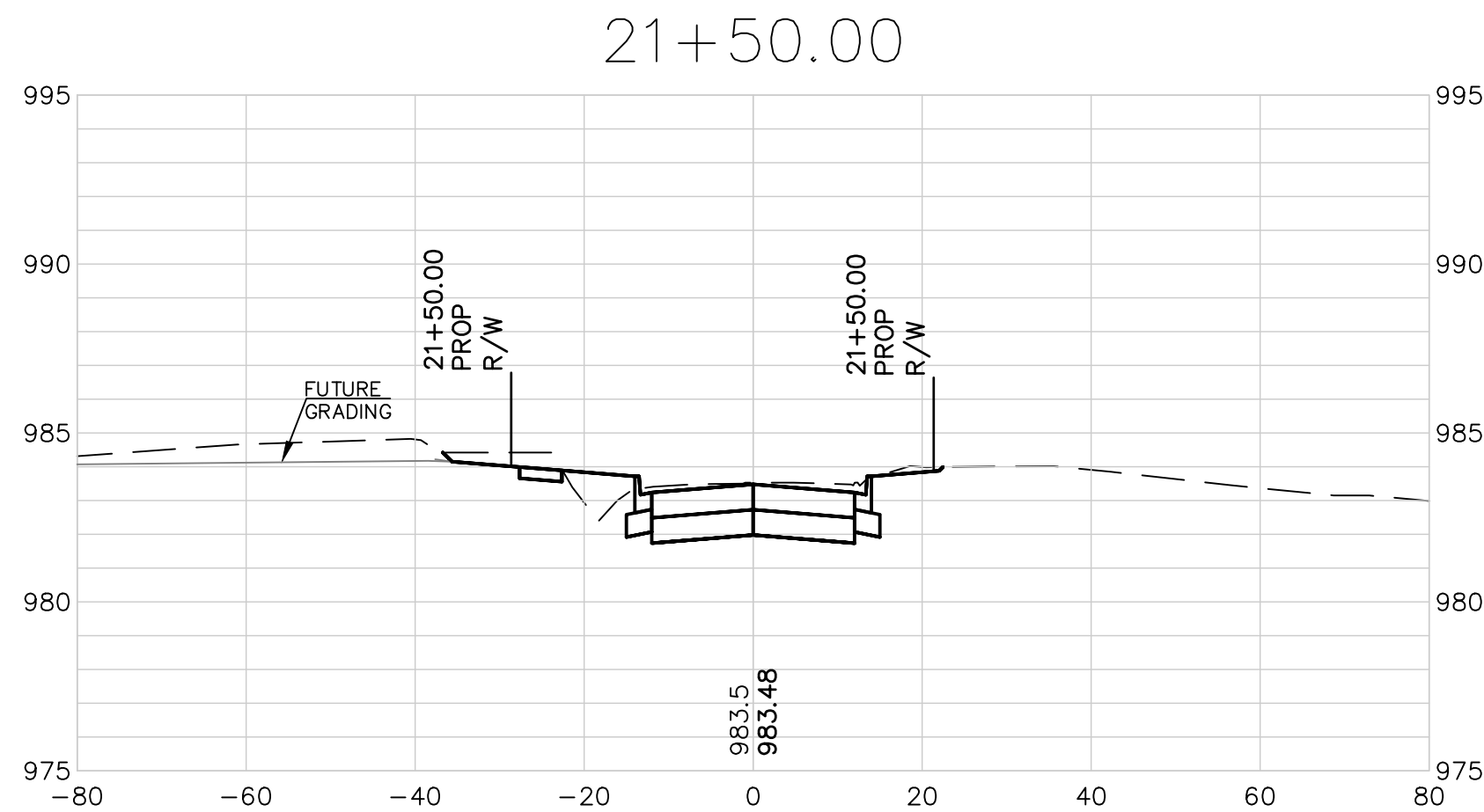
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

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EXPIRES 12/31/19

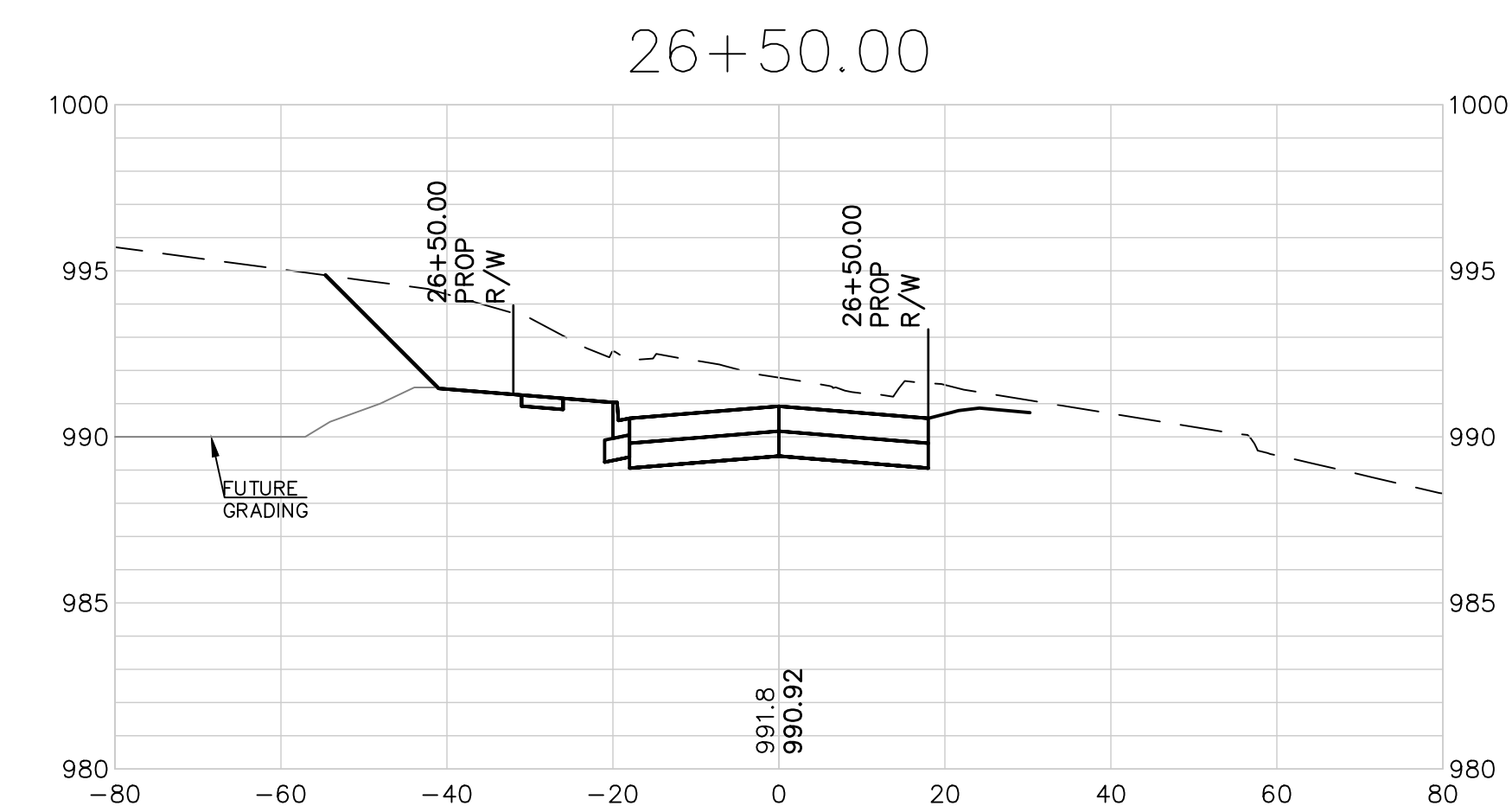
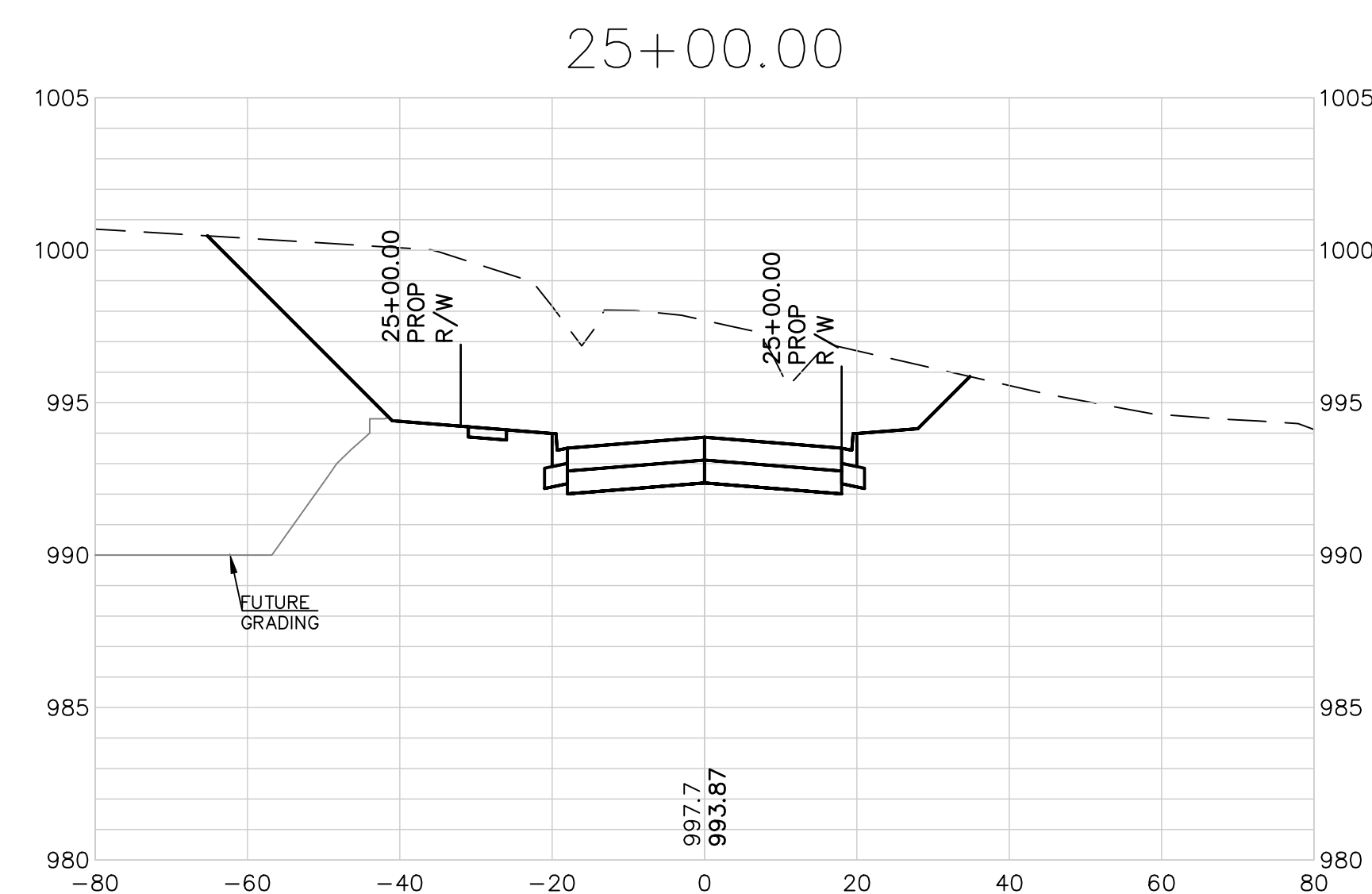
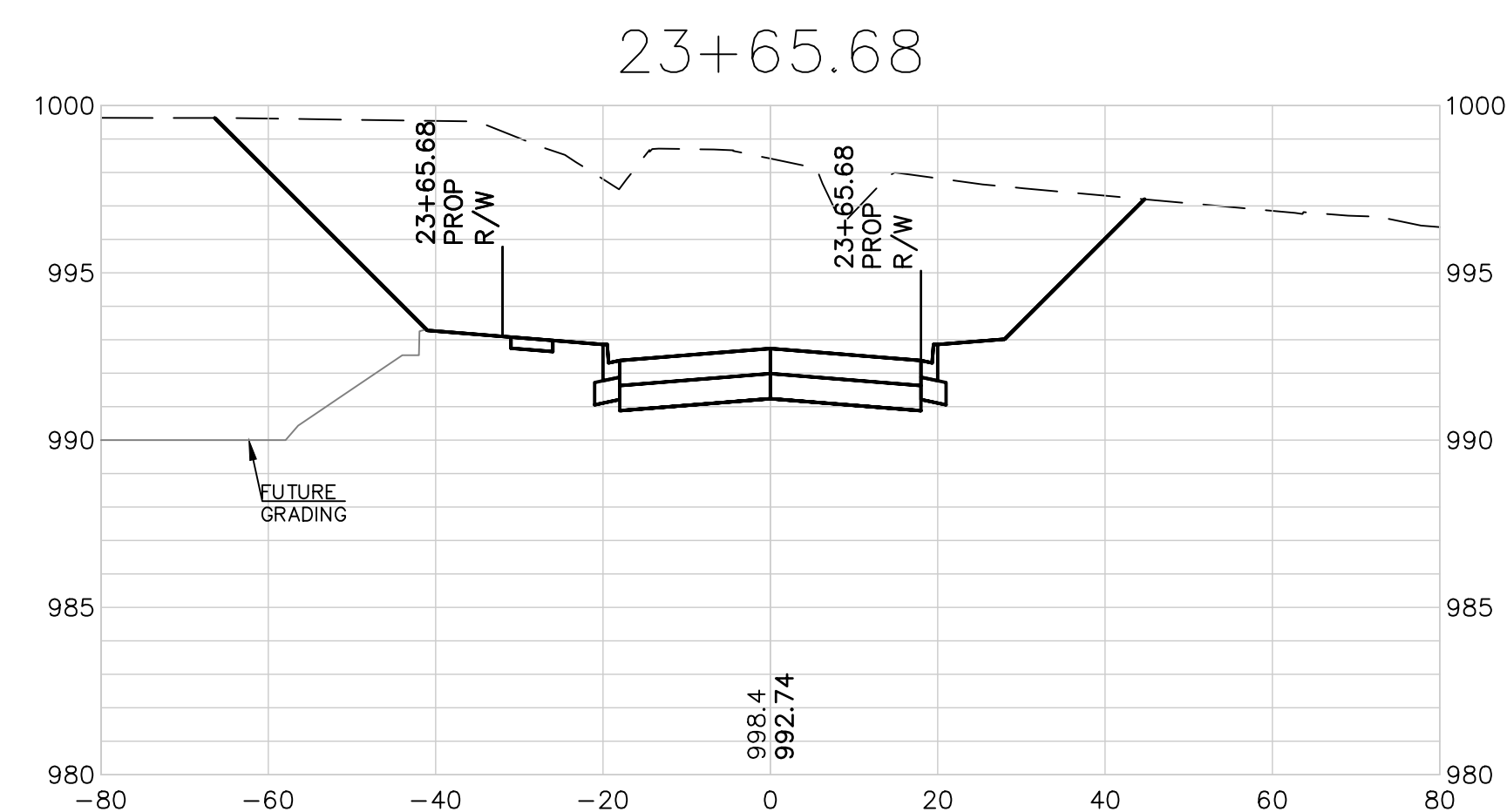
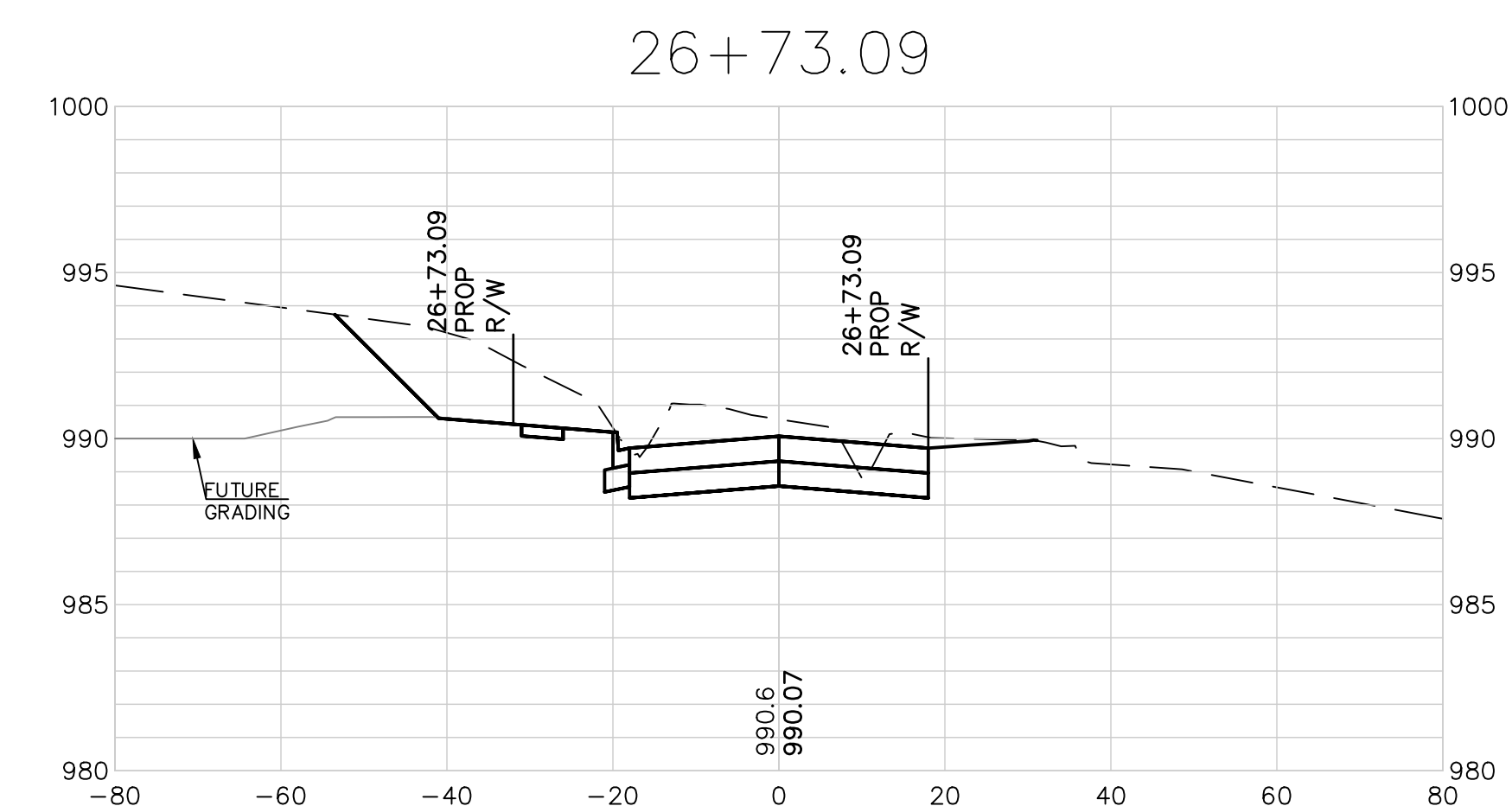
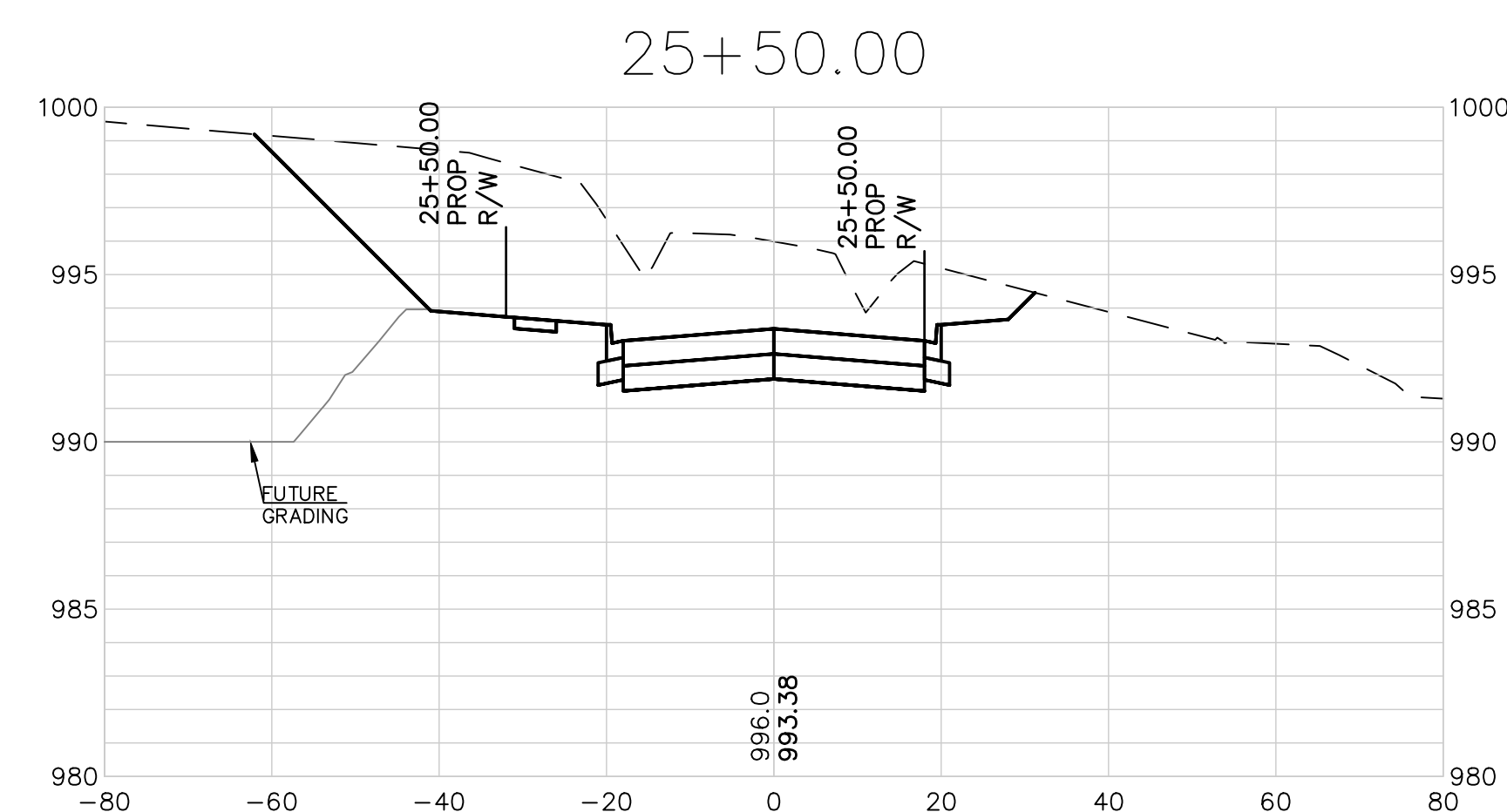
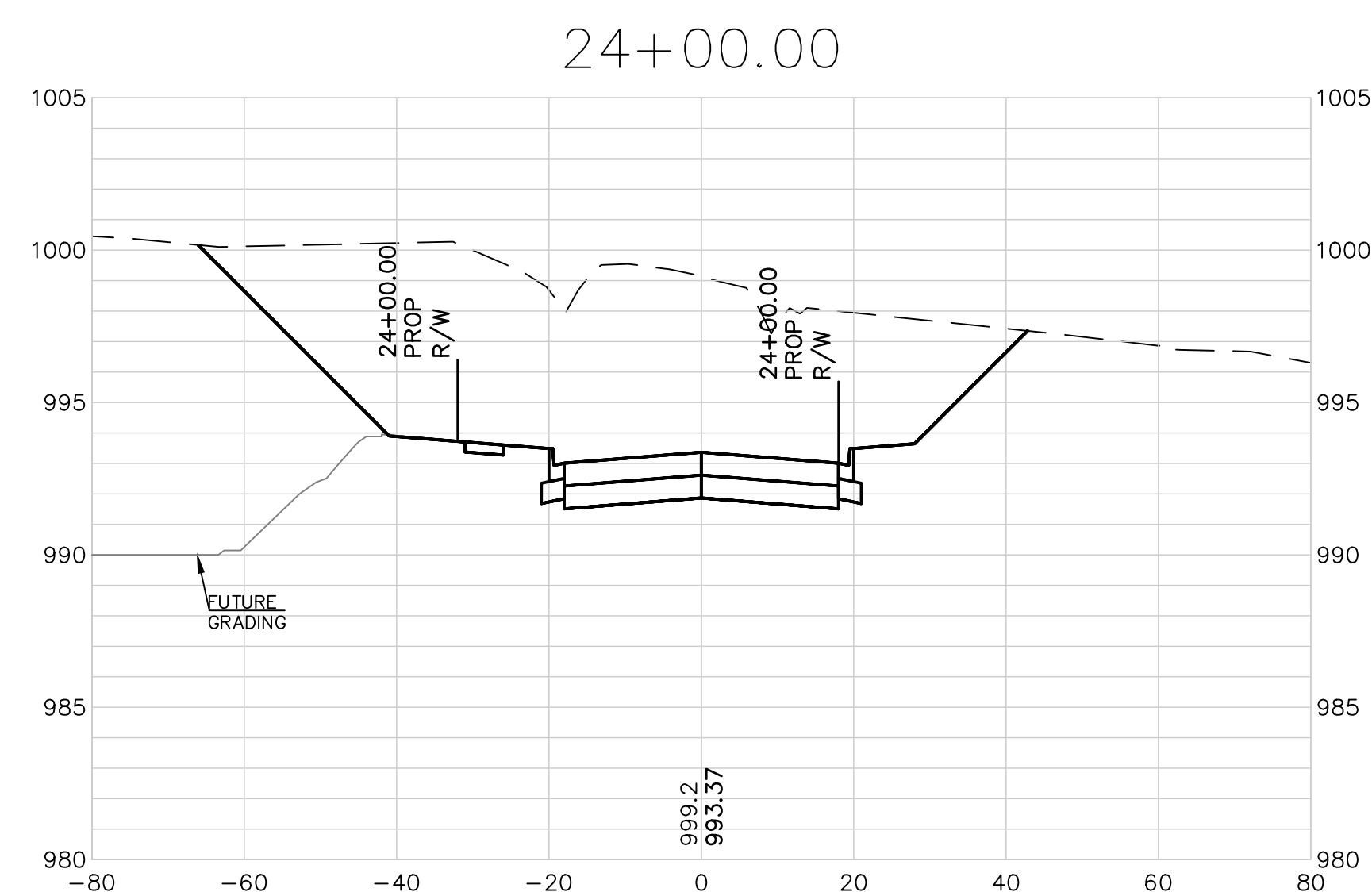
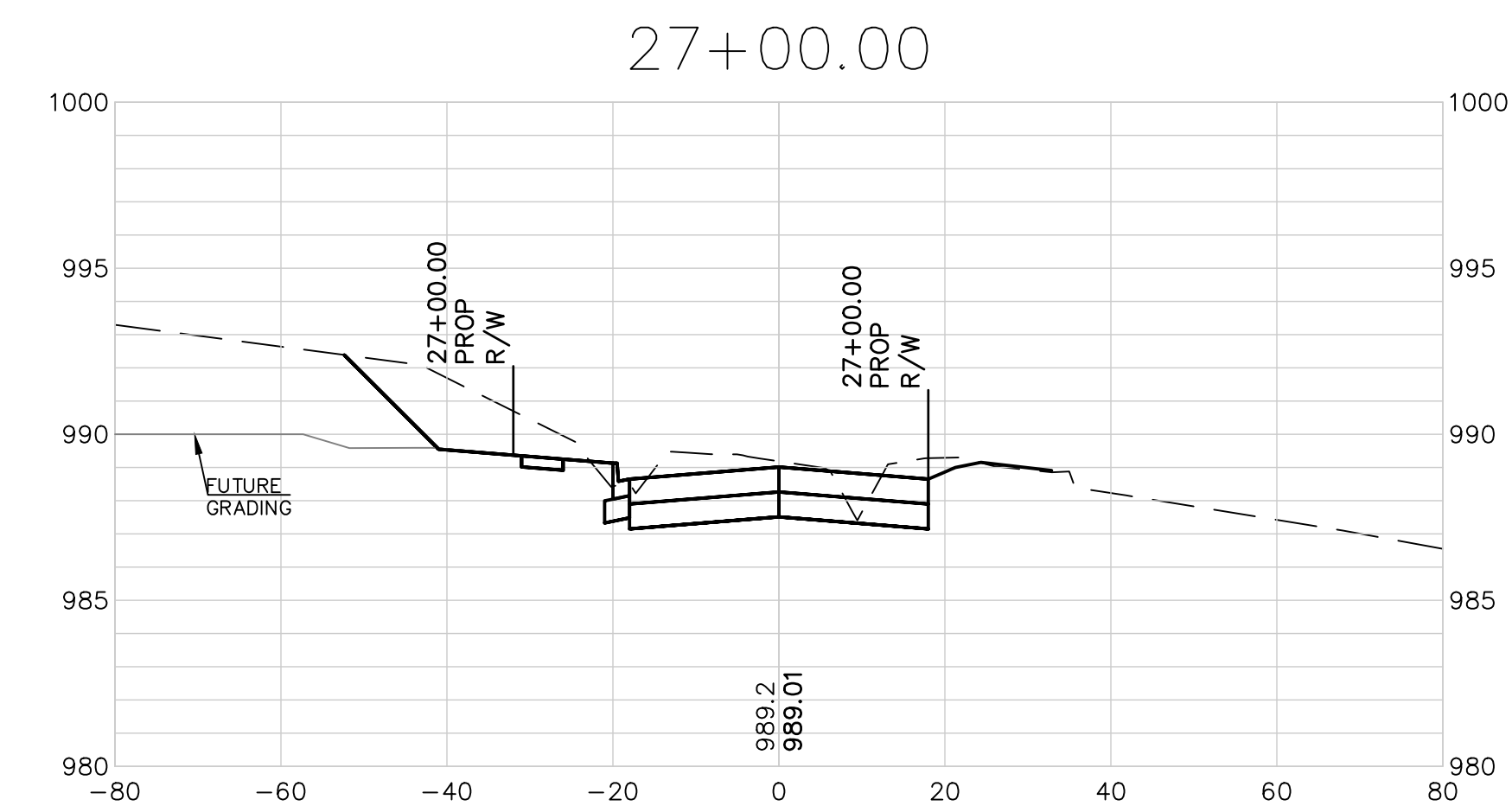
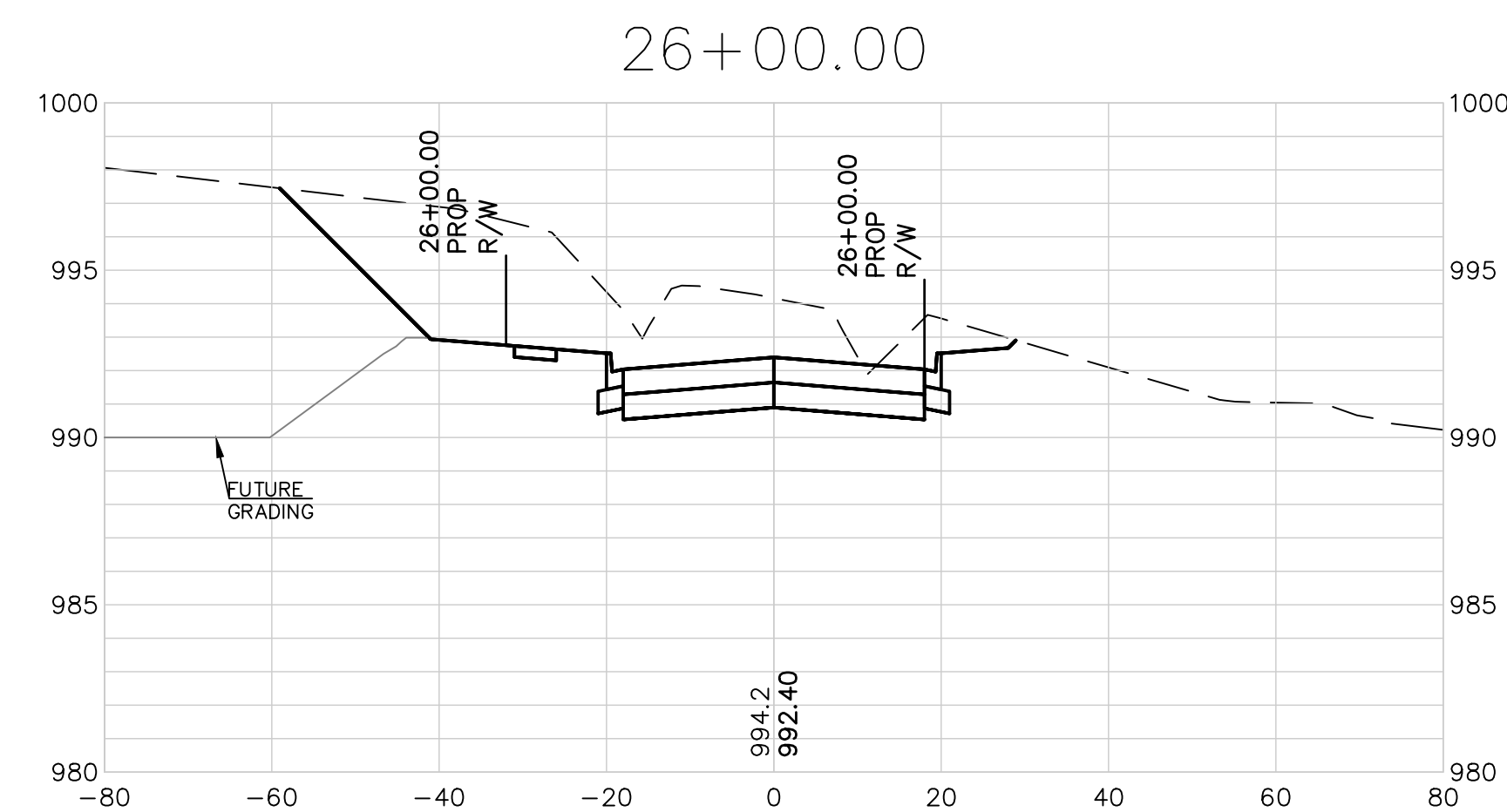
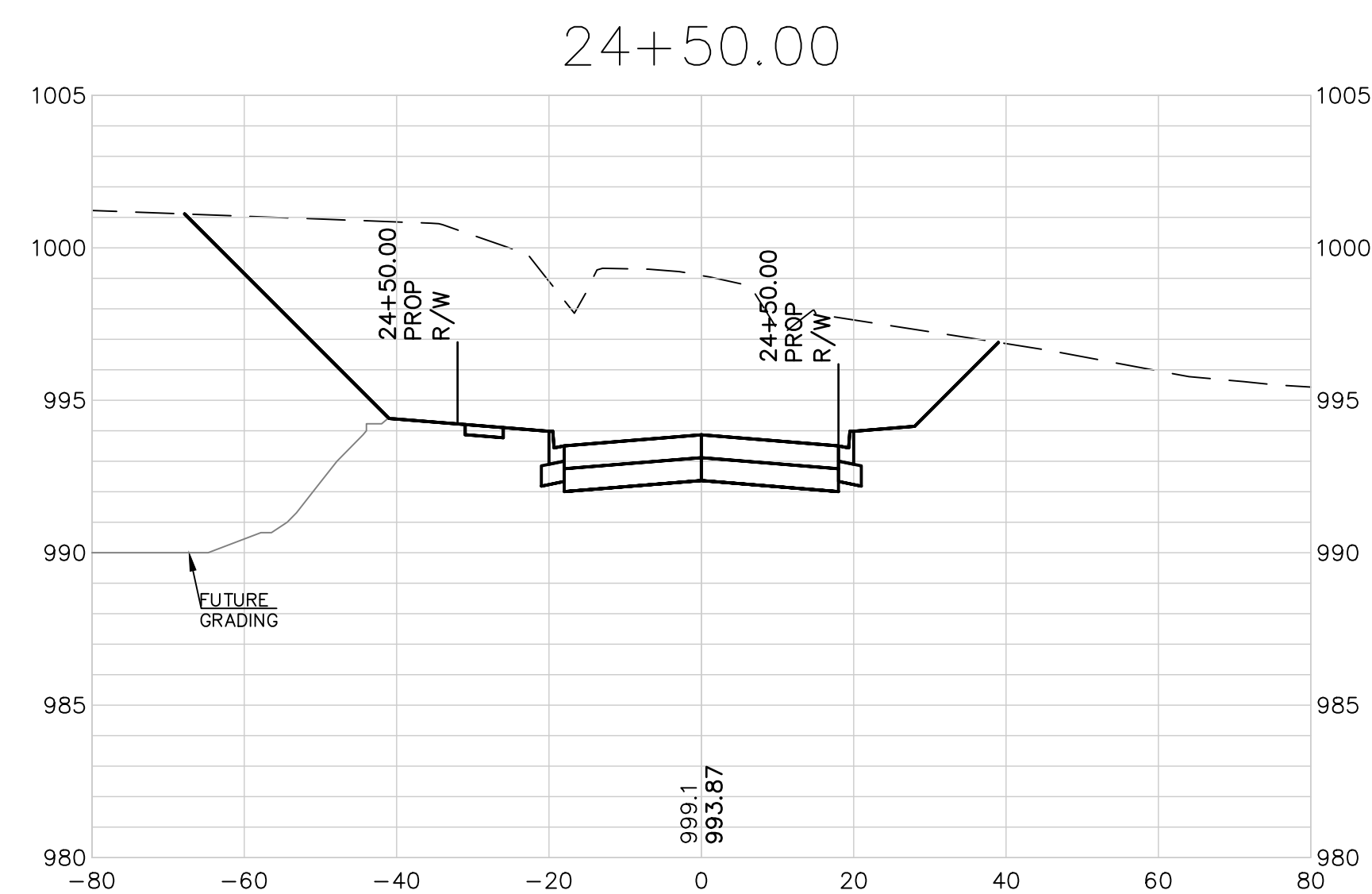
STREETS OF WEST PRYOR
NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE
LEE'S SUMMIT, MISSOURI
PUBLIC STREET PLANS
CURB RAMP DETAIL SHEET

PROJ. NO. A14_7061-1
DESIGNER LDO DRAWN BY JT/BKR
CFN 7067-1PI_DET
SHEET C-35 REV 0

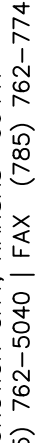
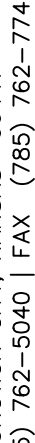
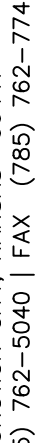
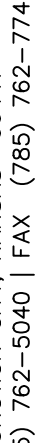
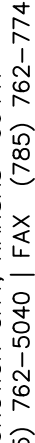
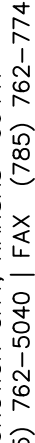
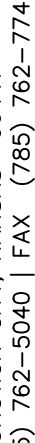
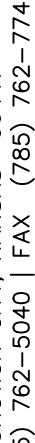
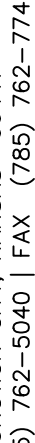
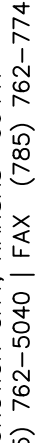
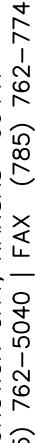
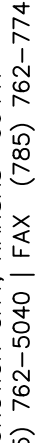
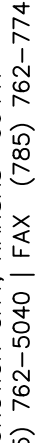
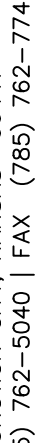
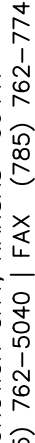
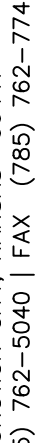
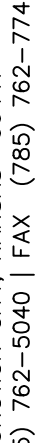
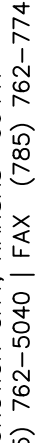
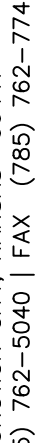
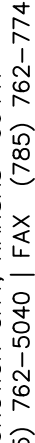
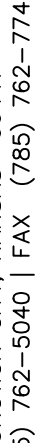
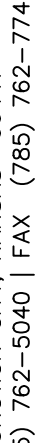
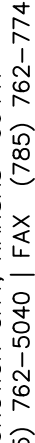
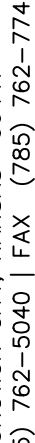
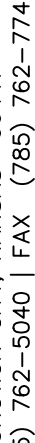
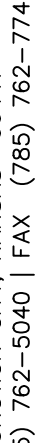
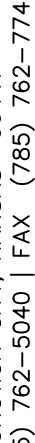
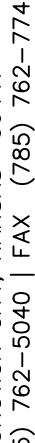
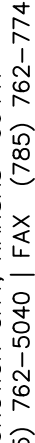
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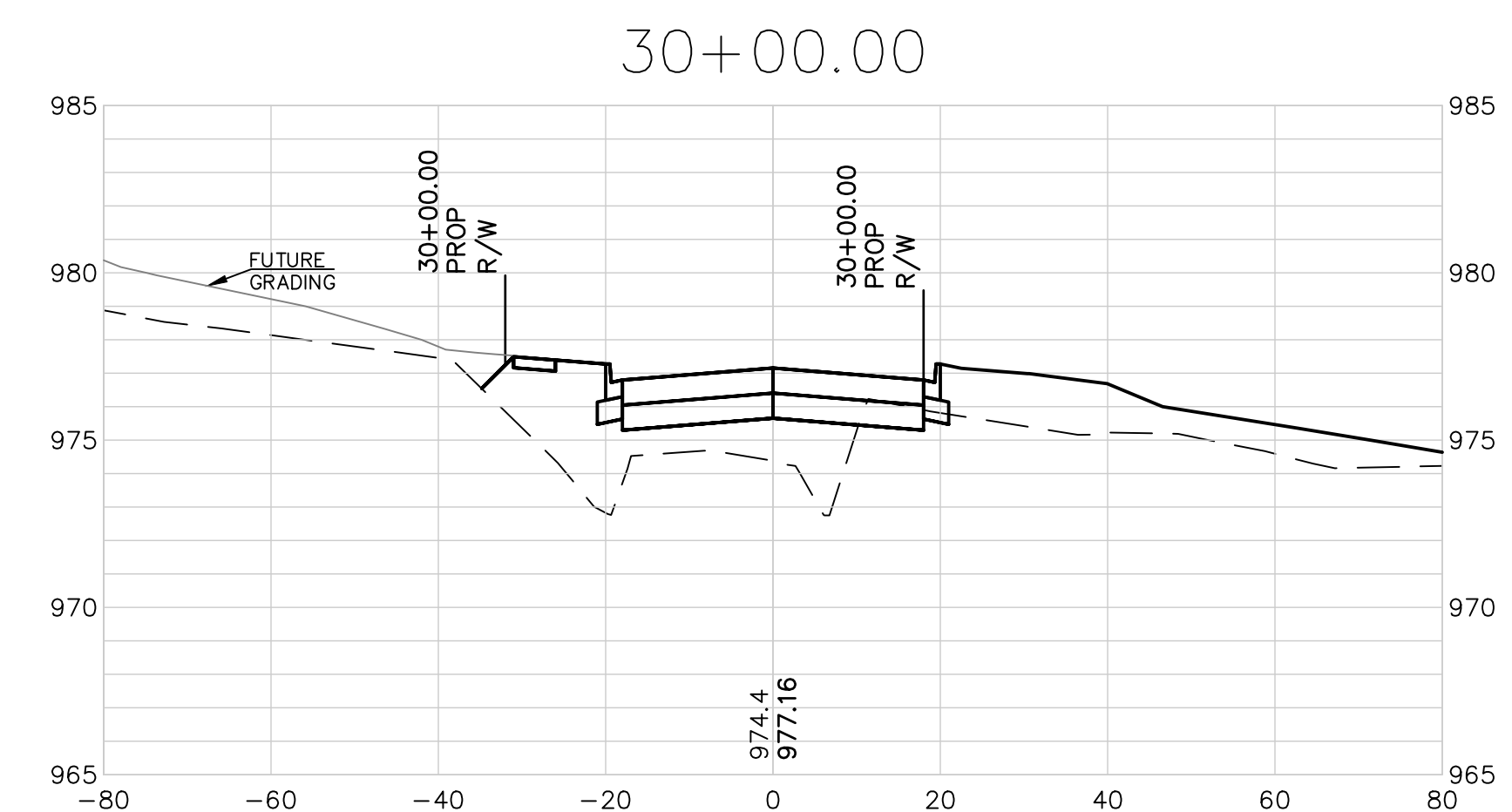
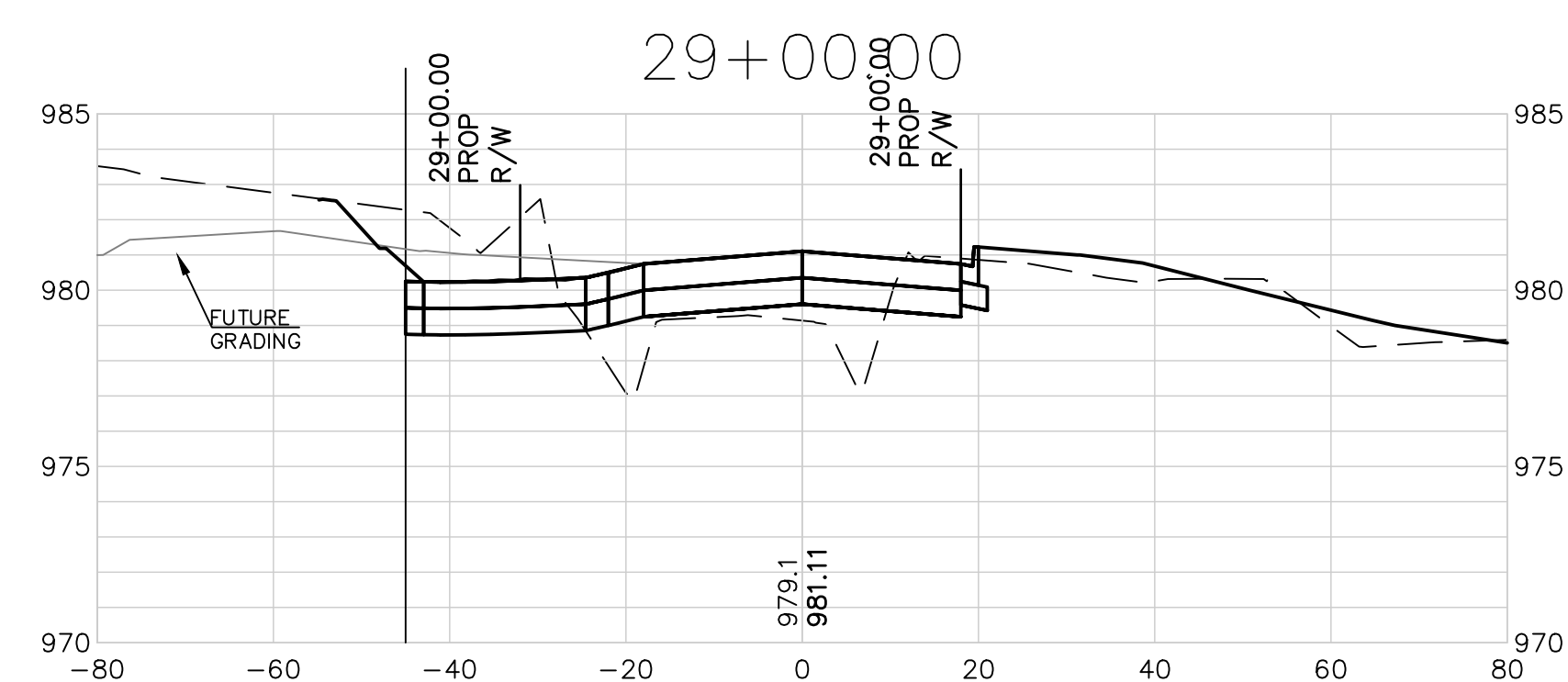
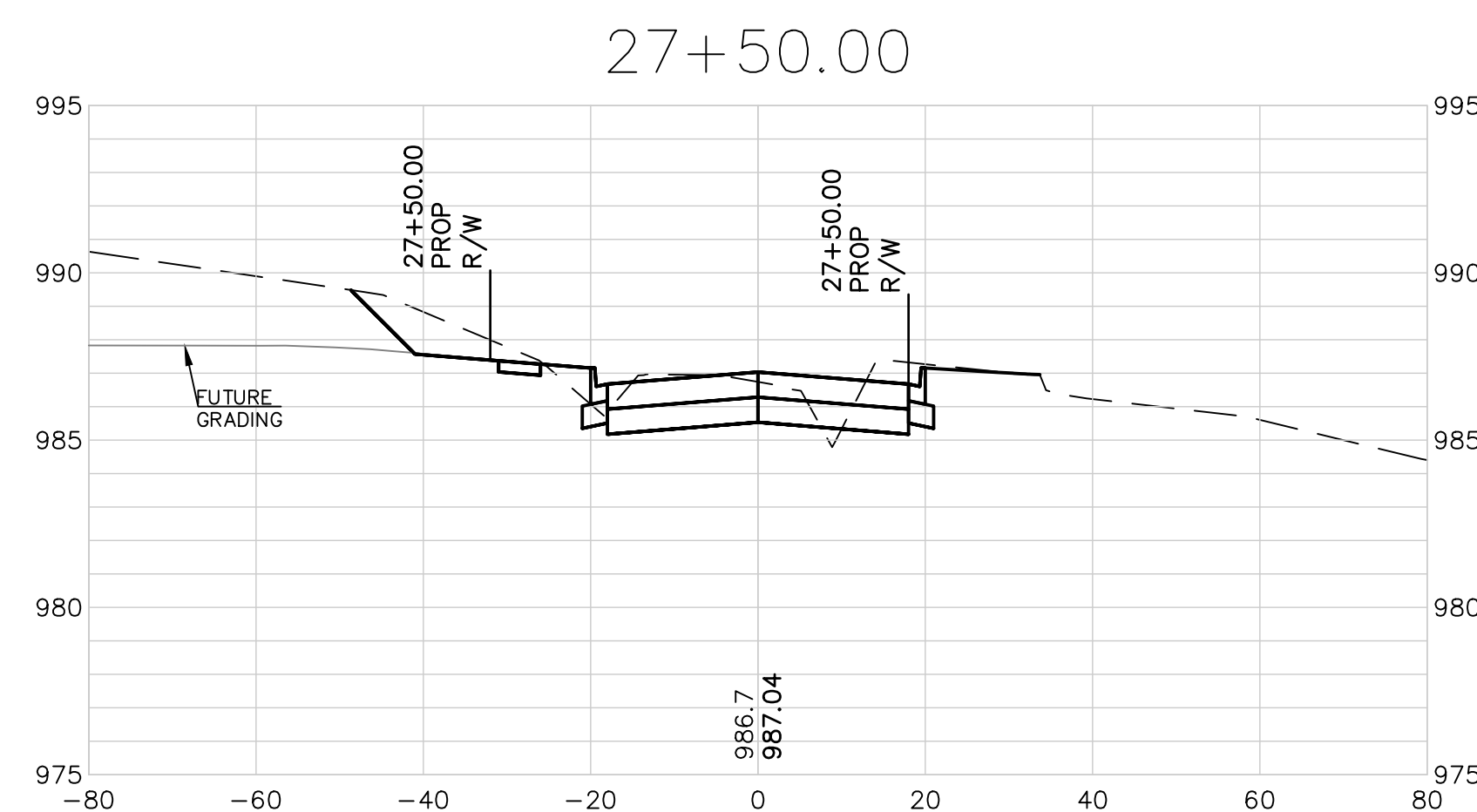
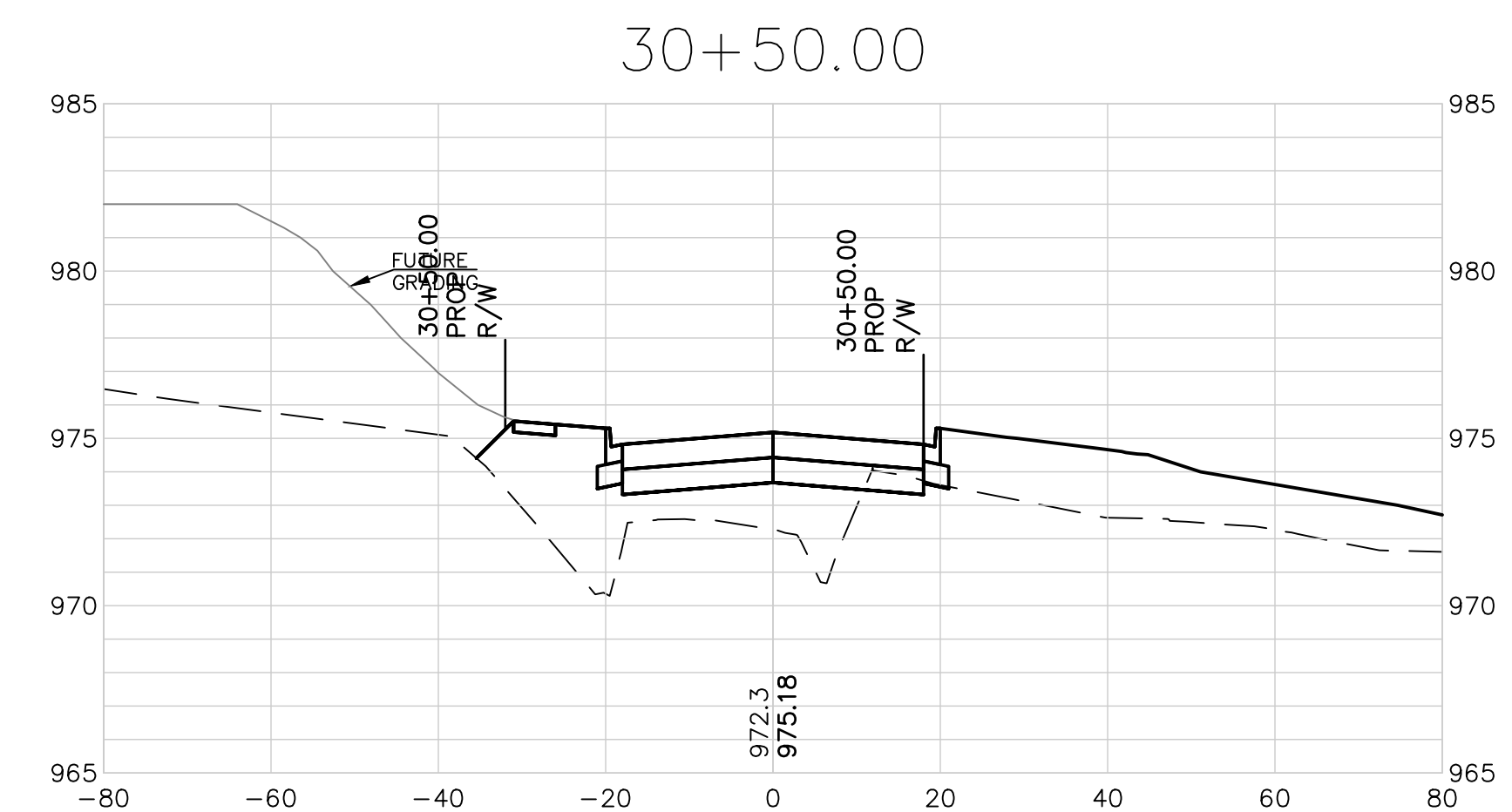
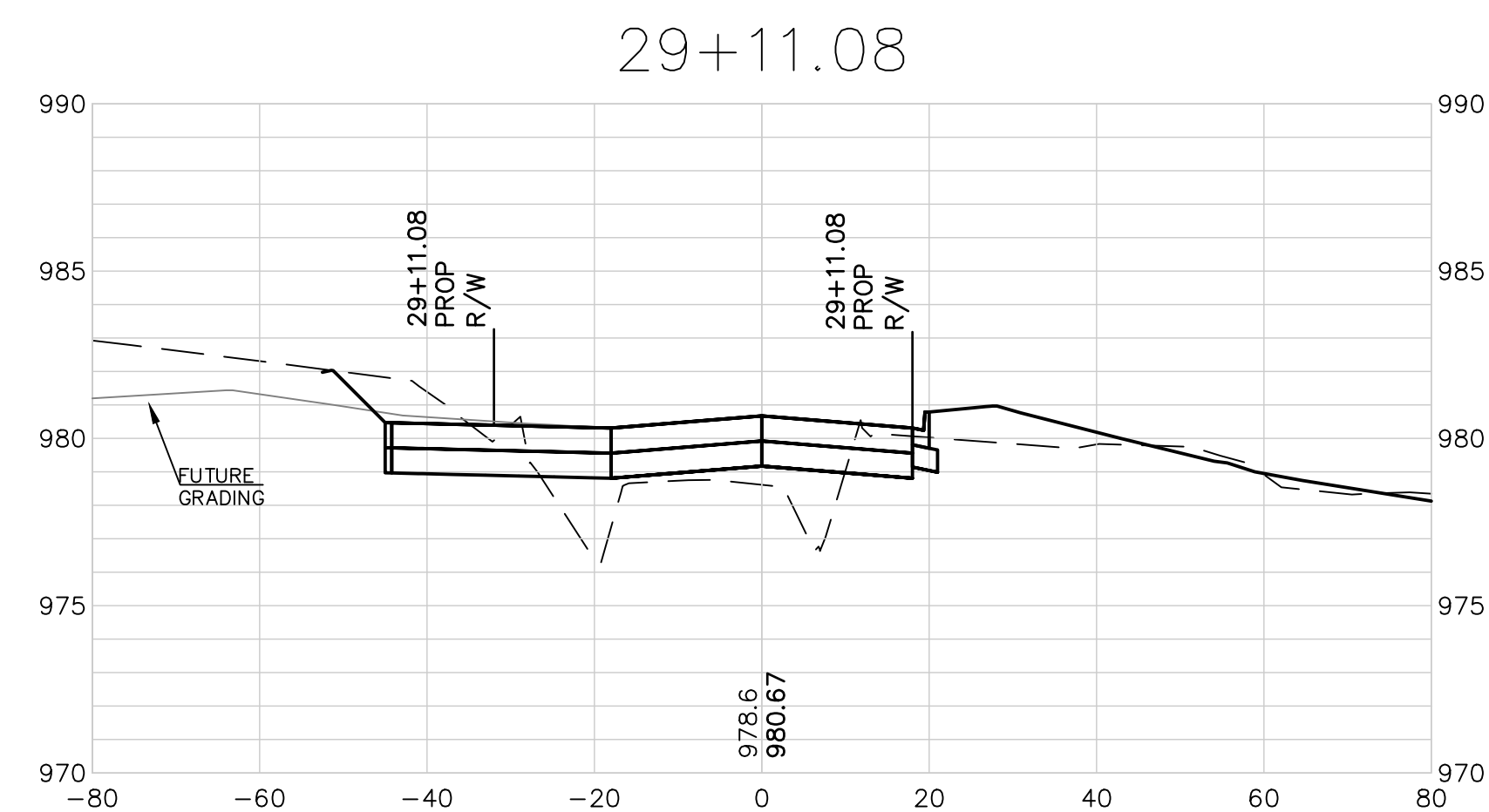
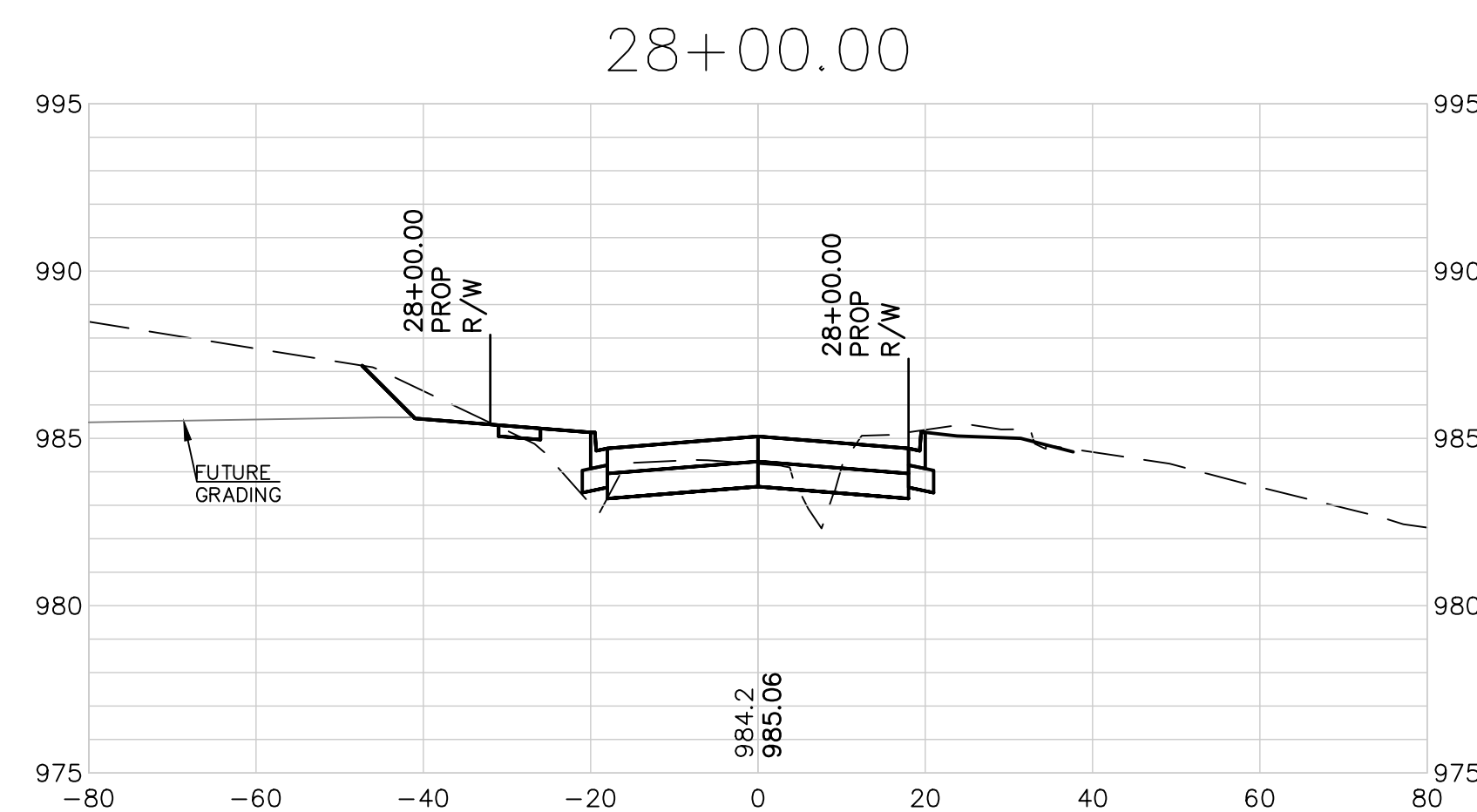
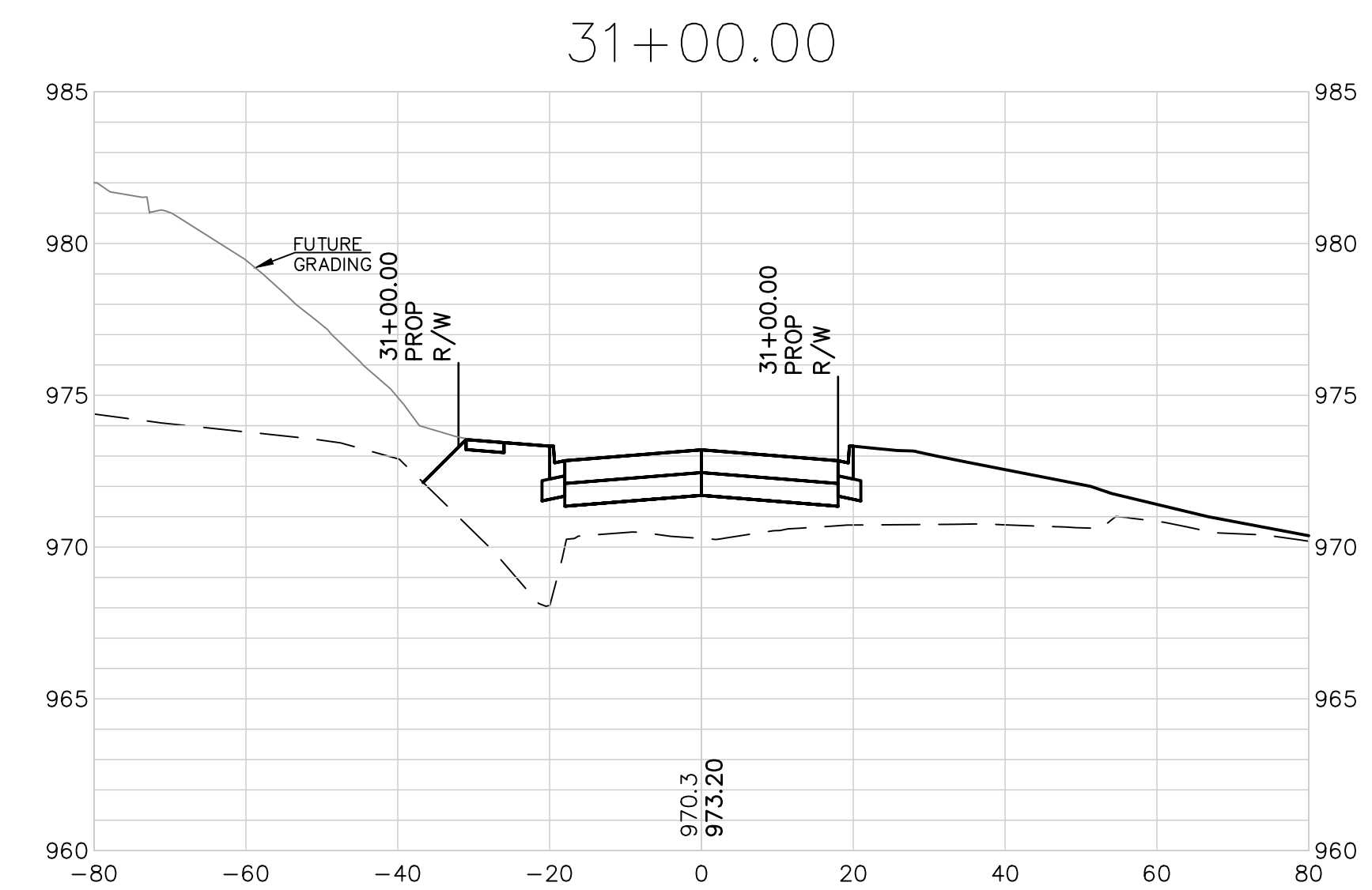
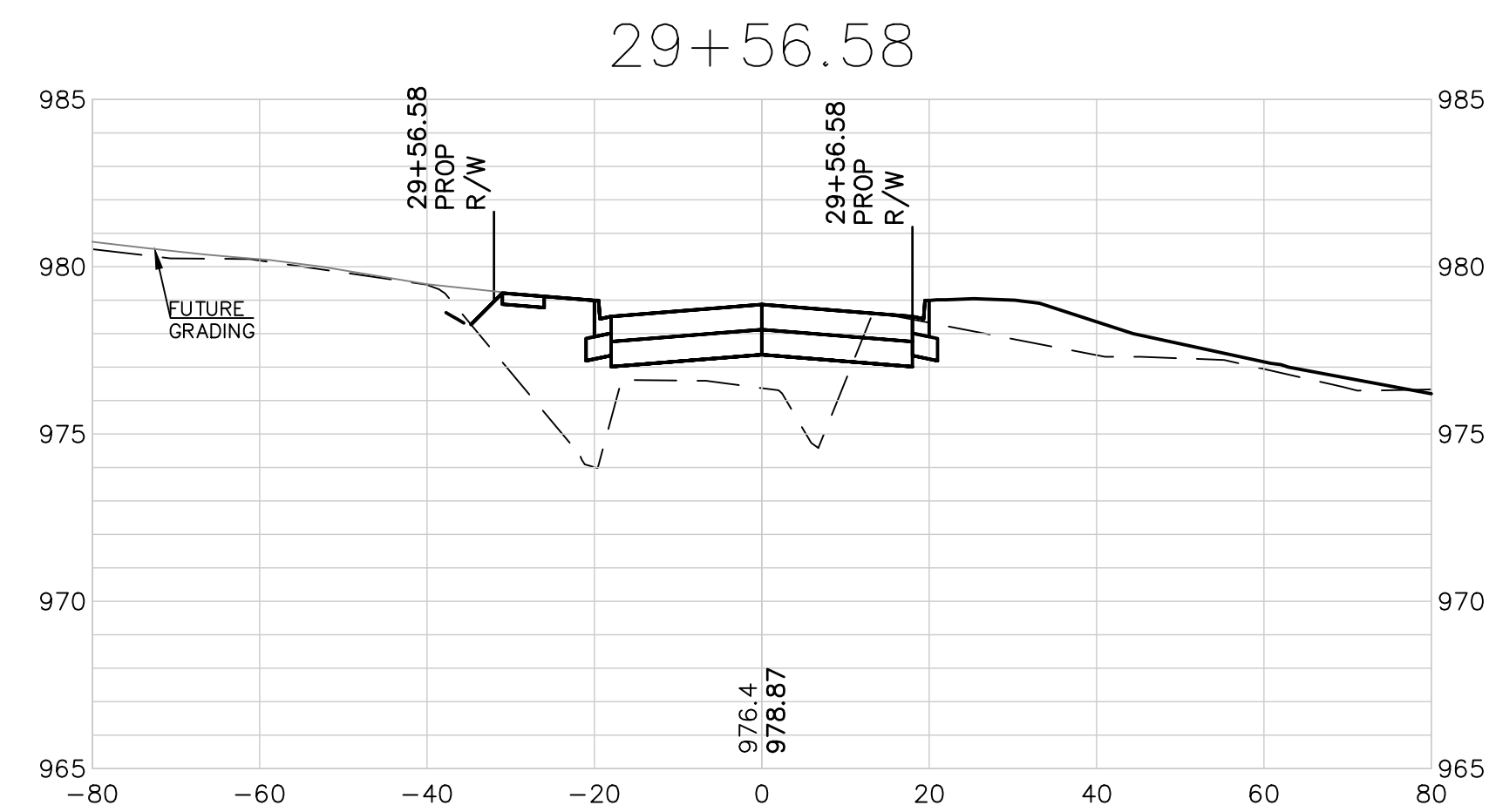
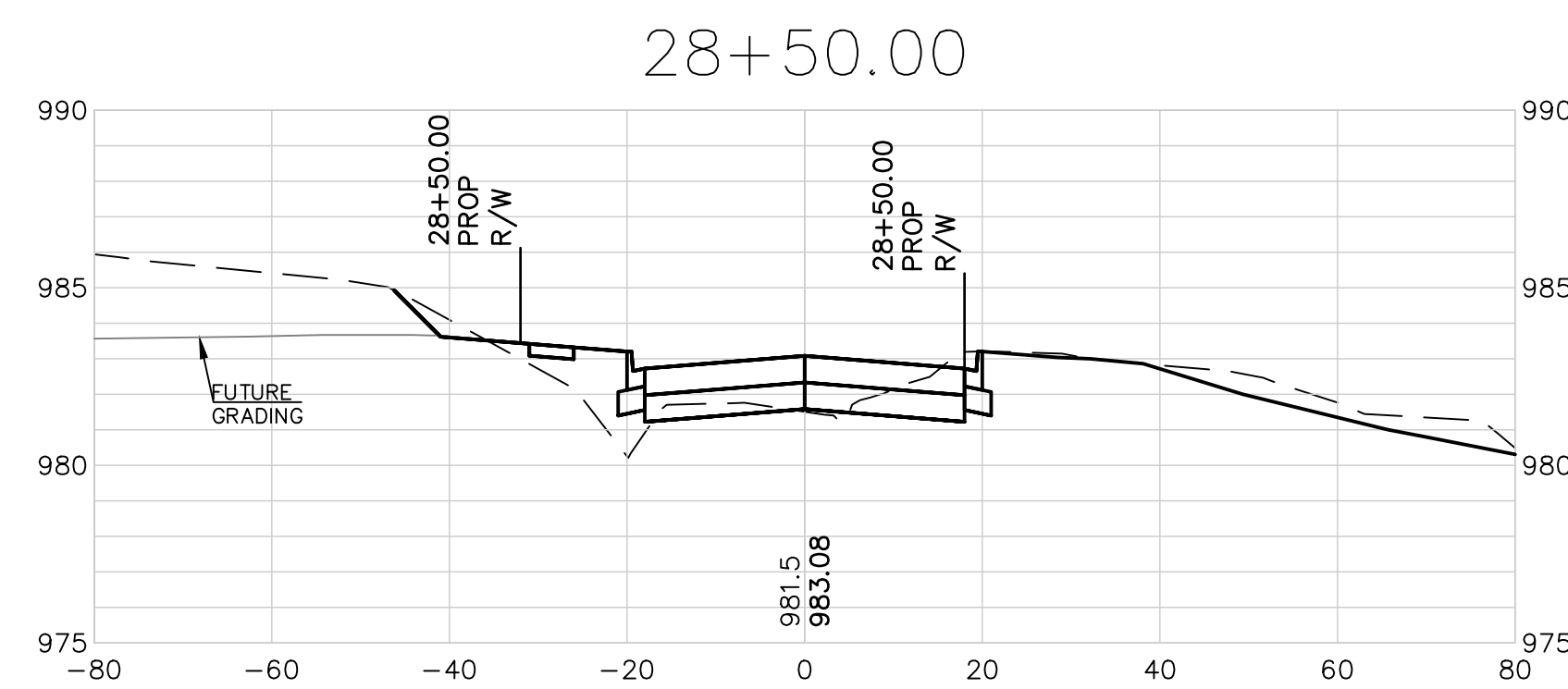


STATE OF MISSOURI		0	01-11-19	REV	DATE	DESCRIPTION	DSN	DWN	CHK
LEON D. OSBOURN		E-21726		REGISTERED PROFESSIONAL ENGINEER		LEON D. OSBOURN		ENGINEER	
2319 N. JACKSON P.O. BOX 1304		JUNCTION CITY, KANSAS 66441		PH. (785) 762-5040 FAX (785) 762-7744		www.kawvalley.com		KAW VALLEY ENGINEERING	
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842.		EXPRES 12/31/19		KAW VALLEY ENGINEERING		STREETS OF WEST PRYOR NW/4 NW PRYOR ROAD & NW LOWENSTEIN DRIVE LEE'S SUMMIT, MISSOURI		PUBLIC STREET PLANS LOWENSTEIN DRIVE - CROSS SECTIONS	
PROJ. NO.		A14_7061-1		DESIGNER		LDO		DRAWN BY	
CFN		7067-1PL		SHEET		C-37		REV	
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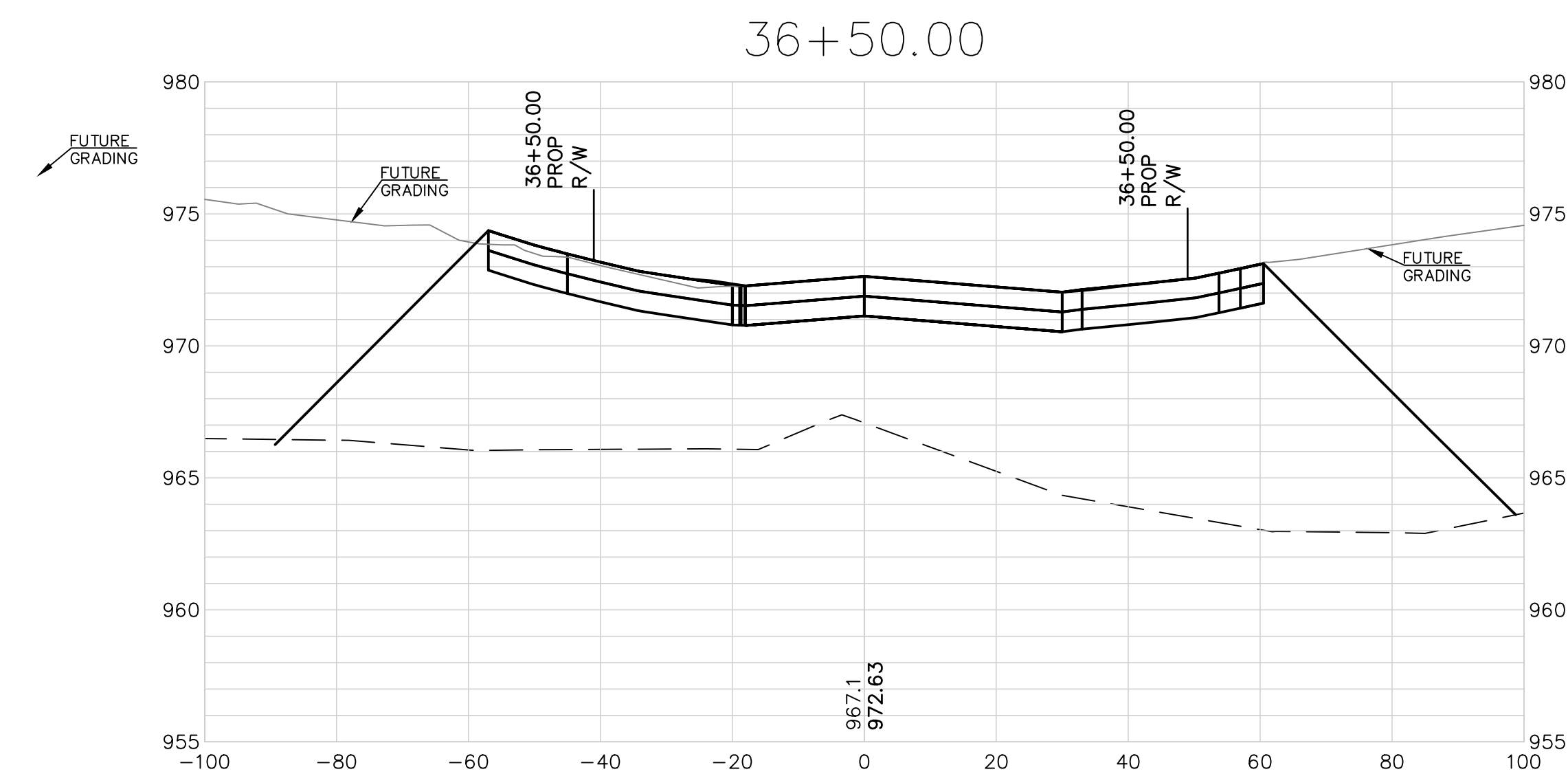
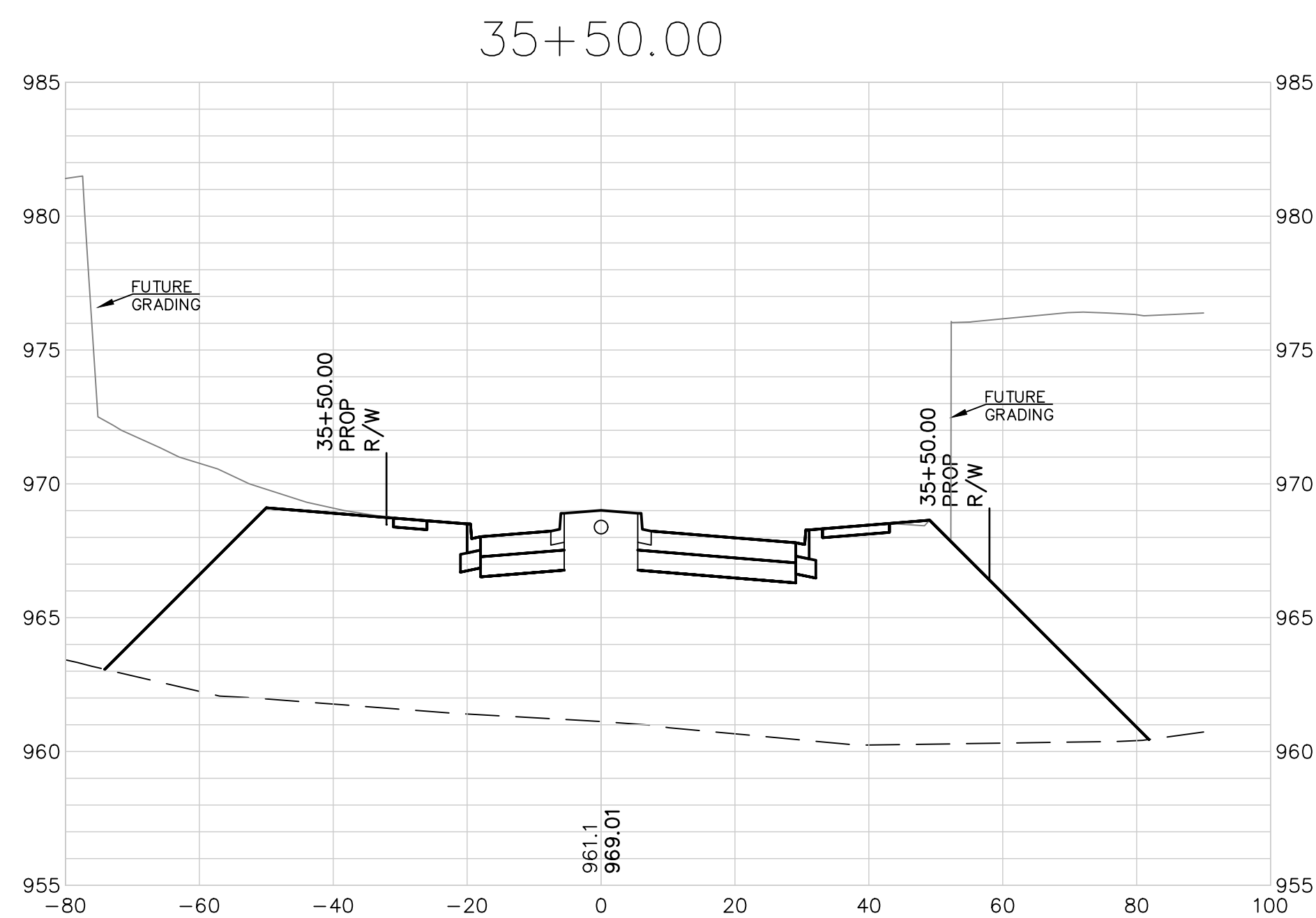
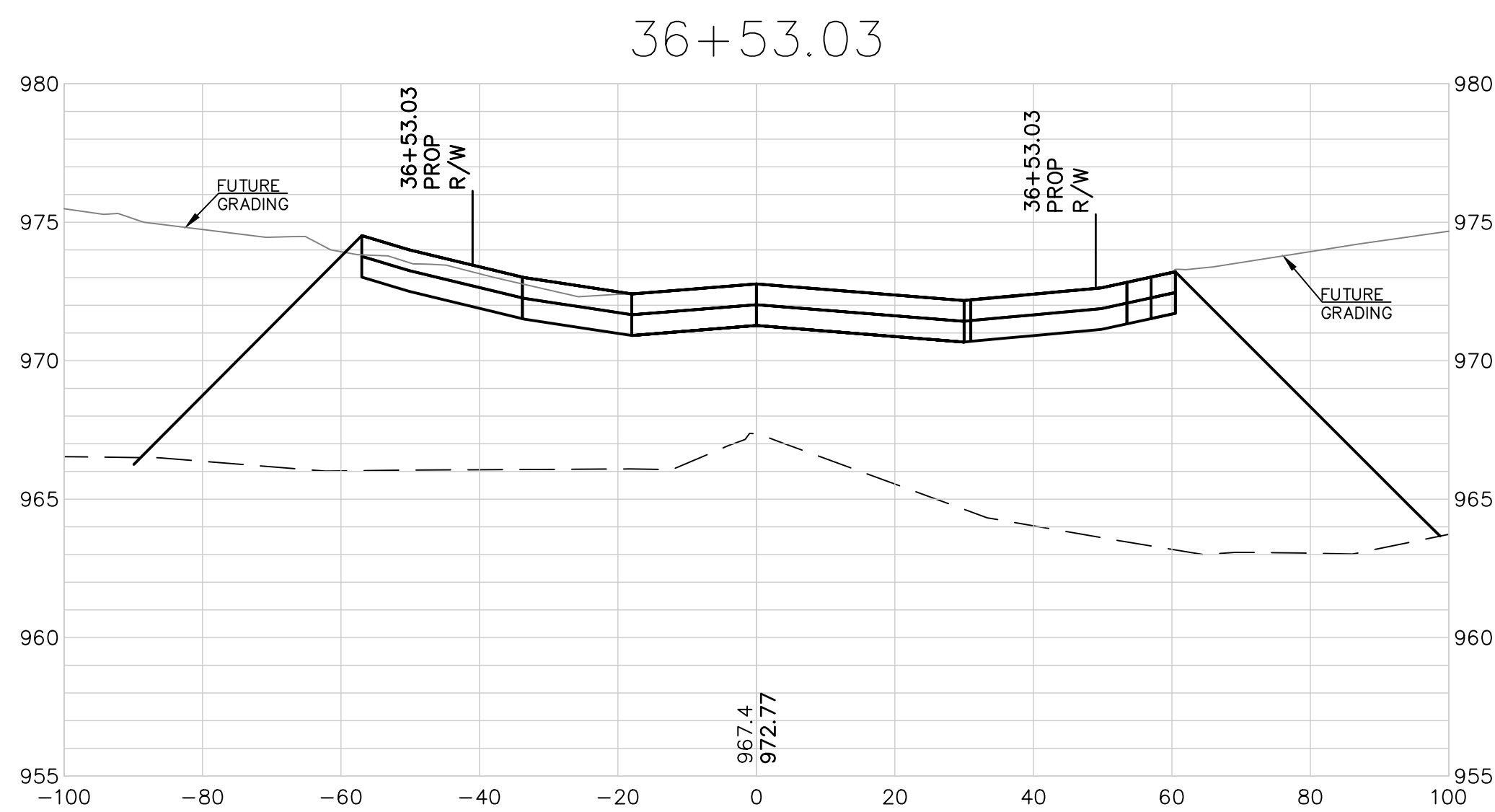
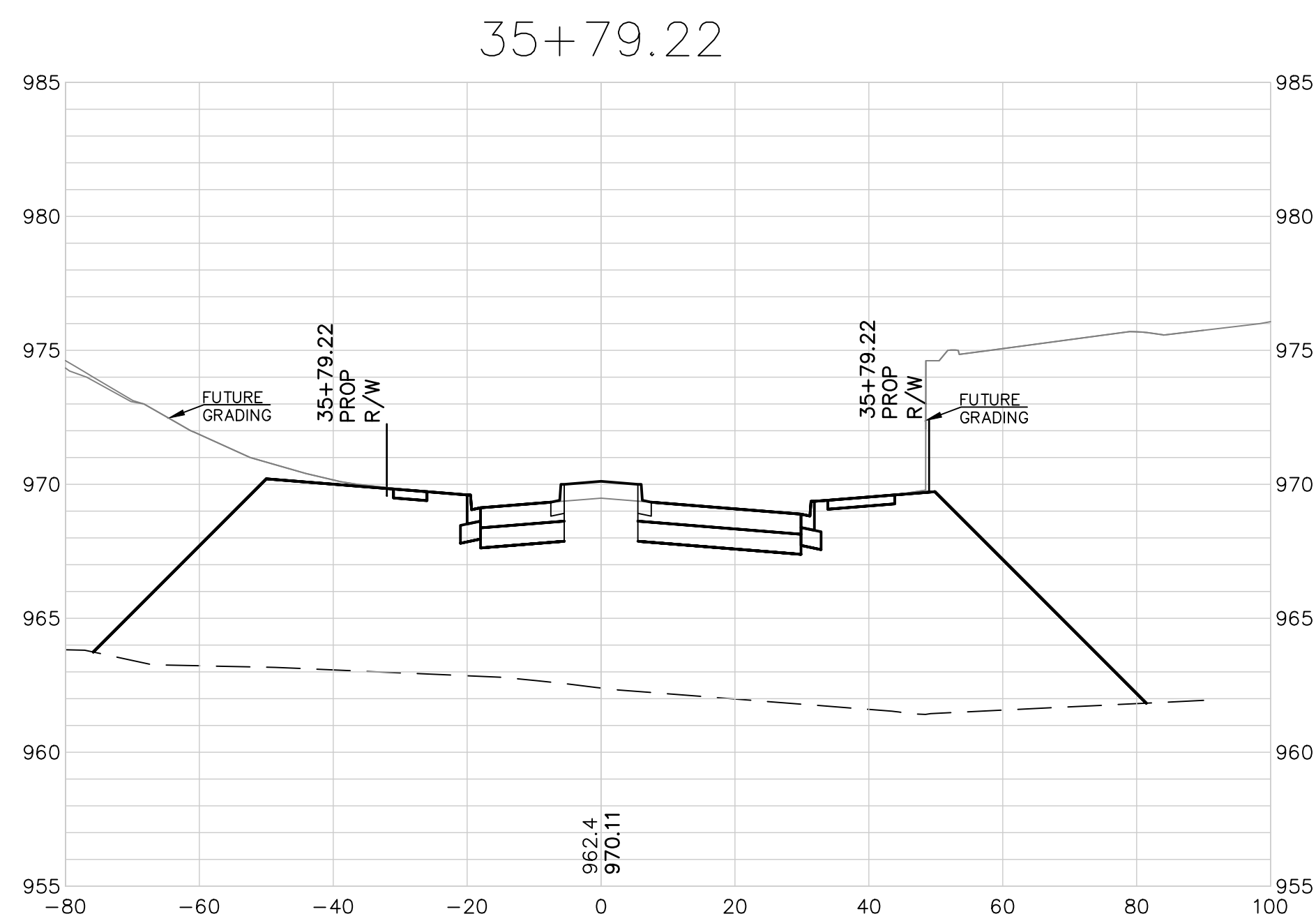
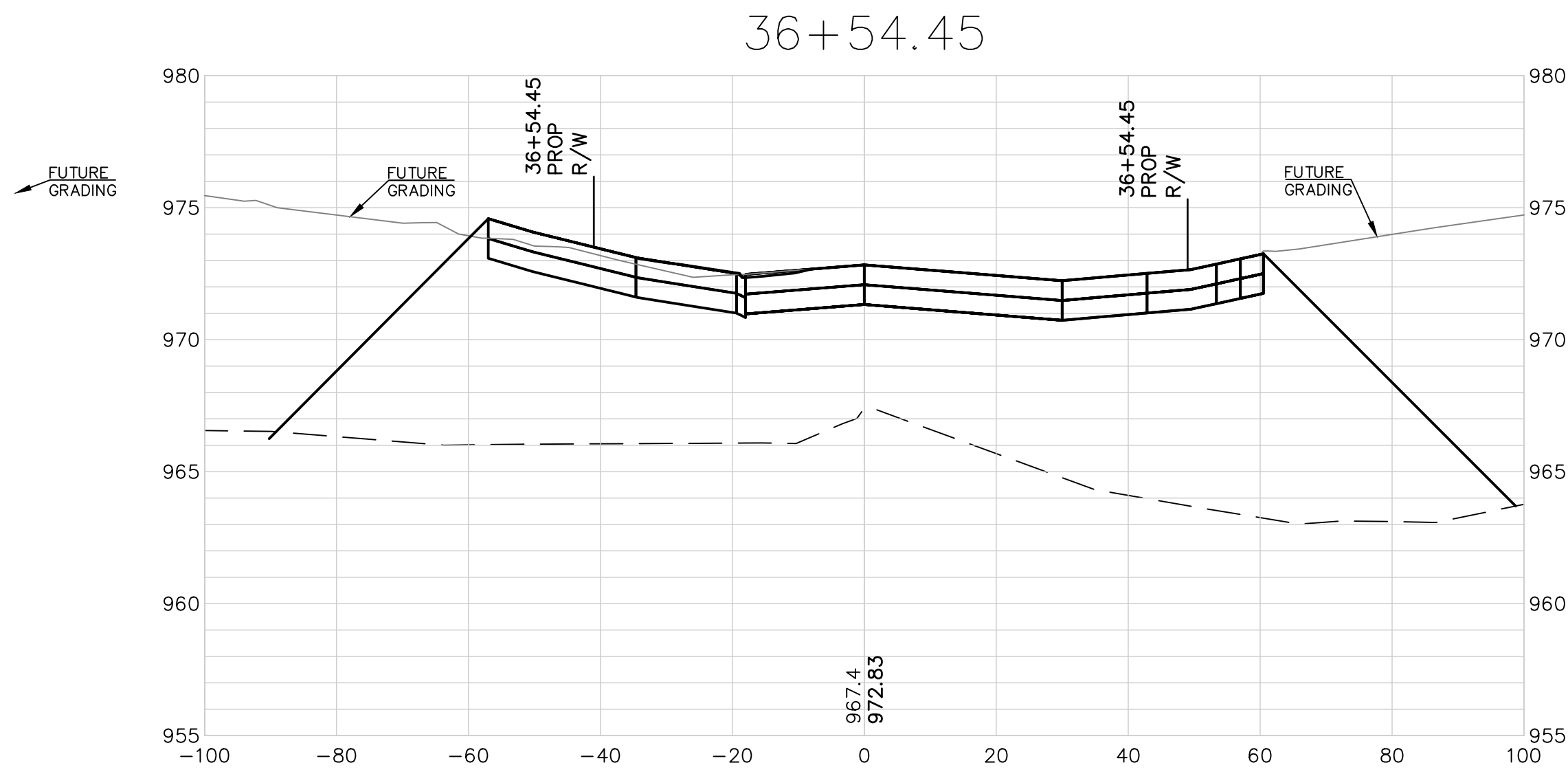
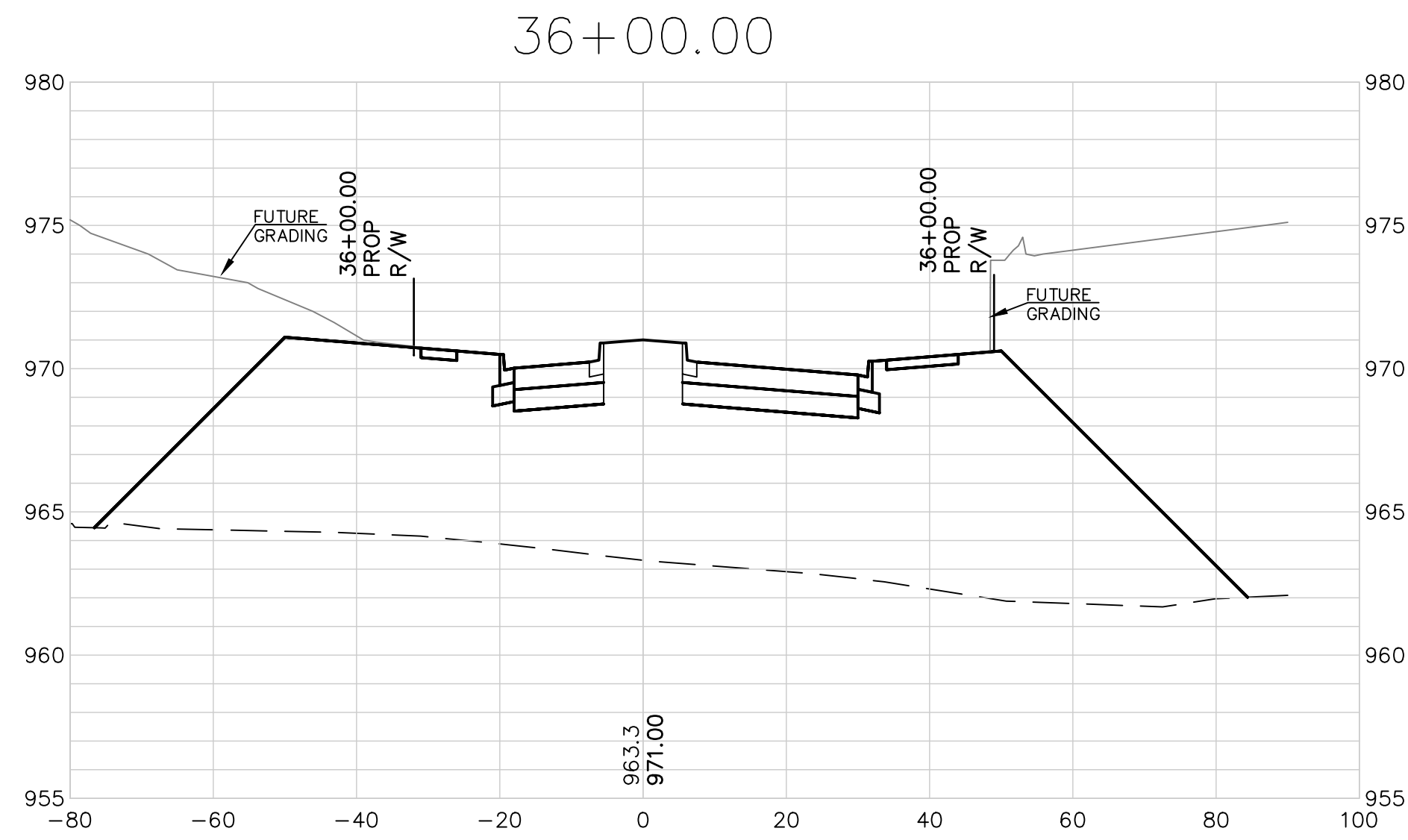
SCALE:
1"=20' HORIZ.
1"=5' VERT.

STREETS OF WEST PRYOR NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE LEE'S SUMMIT, MISSOURI		 2319 N. JACKSON P.O. BOX 1304 CITY OF LEON, MISSOURI 64444 PH. (785) 762-5040 FAX (785) 762-7744 info@kveeng.com www.kveeng.com KAW VALLEY ENGINEERING KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842.		 LEON D. OSBOURN ENGINEER MO # 021726		<table><tr><td>0</td><td>01-11-19</td><td>INITIAL ISSUE</td><td>LDO</td><td>JT</td><td>LDO</td></tr><tr><td>REV</td><td>DATE</td><td>DESCRIPTION</td><td>BY</td><td>CHKD</td><td>APPD</td></tr></table>		0	01-11-19	INITIAL ISSUE	LDO	JT	LDO	REV	DATE	DESCRIPTION	BY	CHKD	APPD
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SCALE:
1"=20' HORIZ.
1"=5' VERT.

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PROJ. NO.		A14		7067-1	
DESIGNER	LDO	DRAWN BY	JT/RRP	LDO	JT
CFN		CHECKED BY	JT/RRP	DSN	DWN
SHEET	C-39	REV	0	INITIAL ISSUE	LDO
0			REV	DATE	DESCRIPTION
0			01-11-19		
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KV KAW VALLEY ENGINEERING 2319 N. JACKSON, P.O. BOX 1304 JACKSON, MISSOURI 64501 PH. (783) 762-5040 FAX (783) 762-7744 jdo@kveeng.com www.kveeng.com KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19					
PUBLIC STREET PLANS LOWENSTEIN DRIVE - CROSS SECTIONS					



NOTE: FINISH GROUND ELEVATION REPORTED AT CENTERLINE IS TO TOP OF MEDIAN WHEN PRESENT. CONSULT THE VERTICAL PROFILE FOR PROFILE GRADE ELEVATIONS.

SCALE:
1"=20' HORIZ.
1"=5' VERT.

REV	DATE	DESCRIPTION
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LEON D. OSBOURN
ENGINEER
MO # 021726

2319 N. JACKSON | P.O. BOX 1304
JUNCTION CITY, KANSAS 66441
PH. (785) 762-5040 | FAX (785) 762-7744
jke@kveeng.com | www.kveeng.com

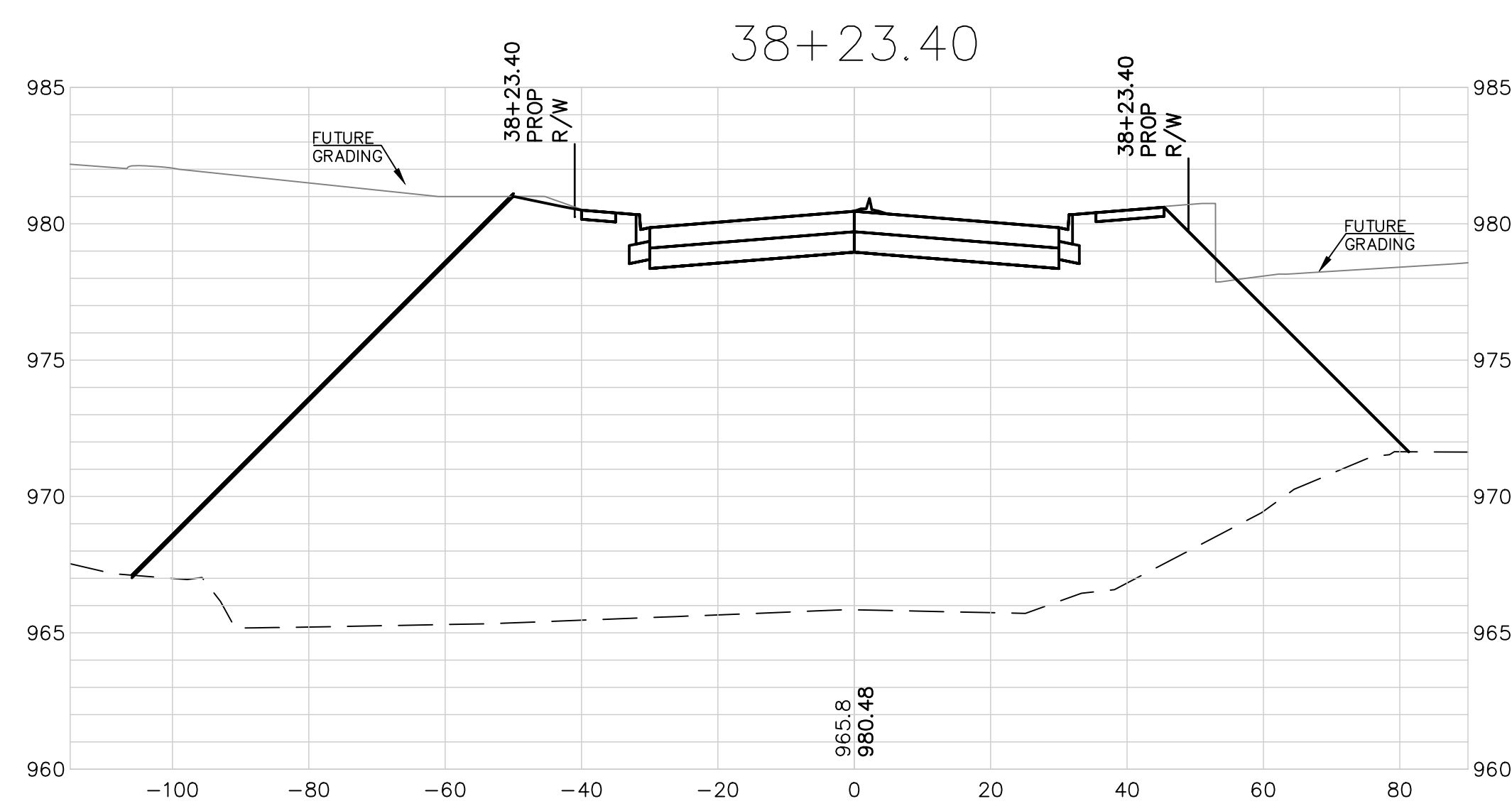
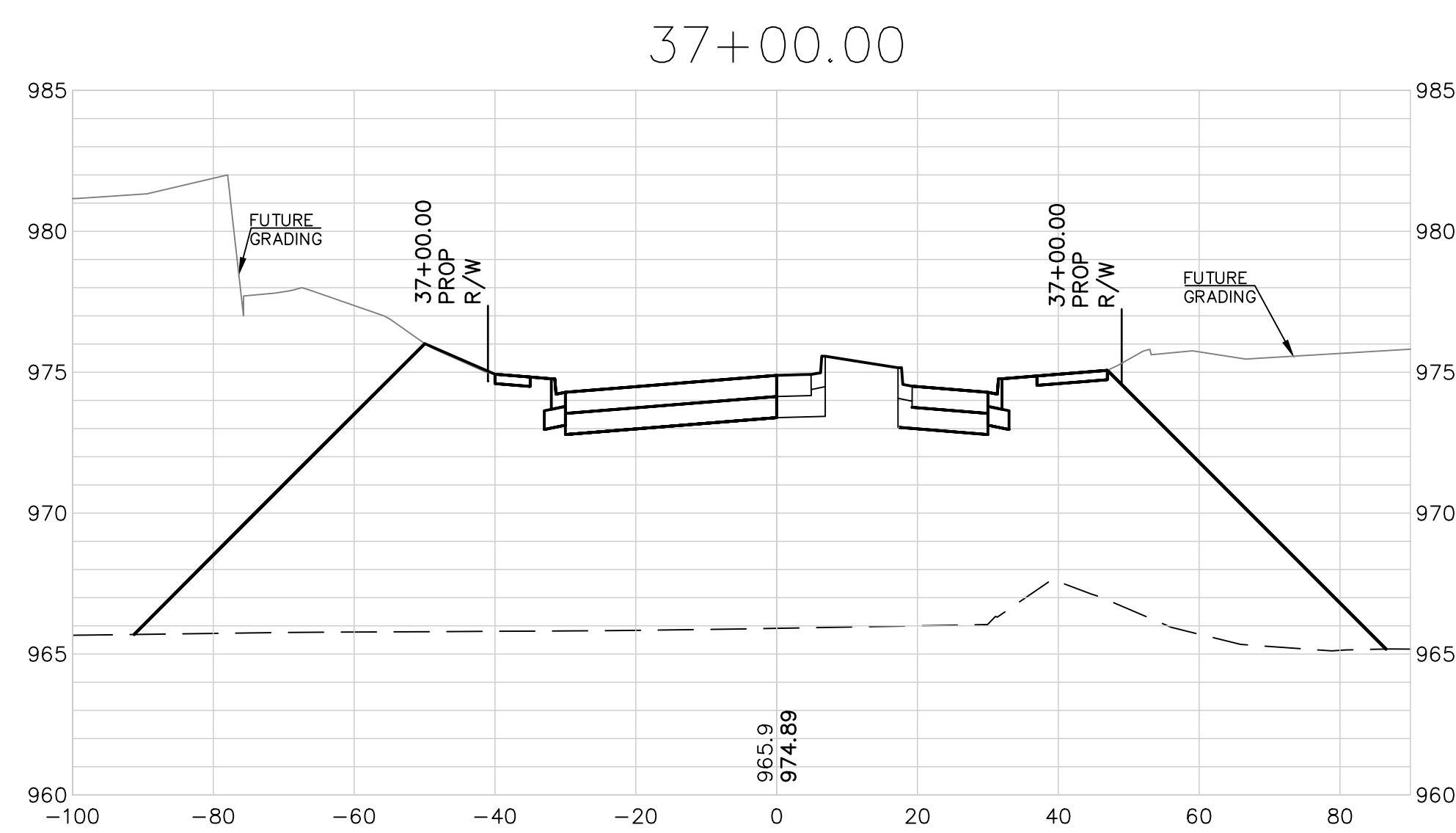
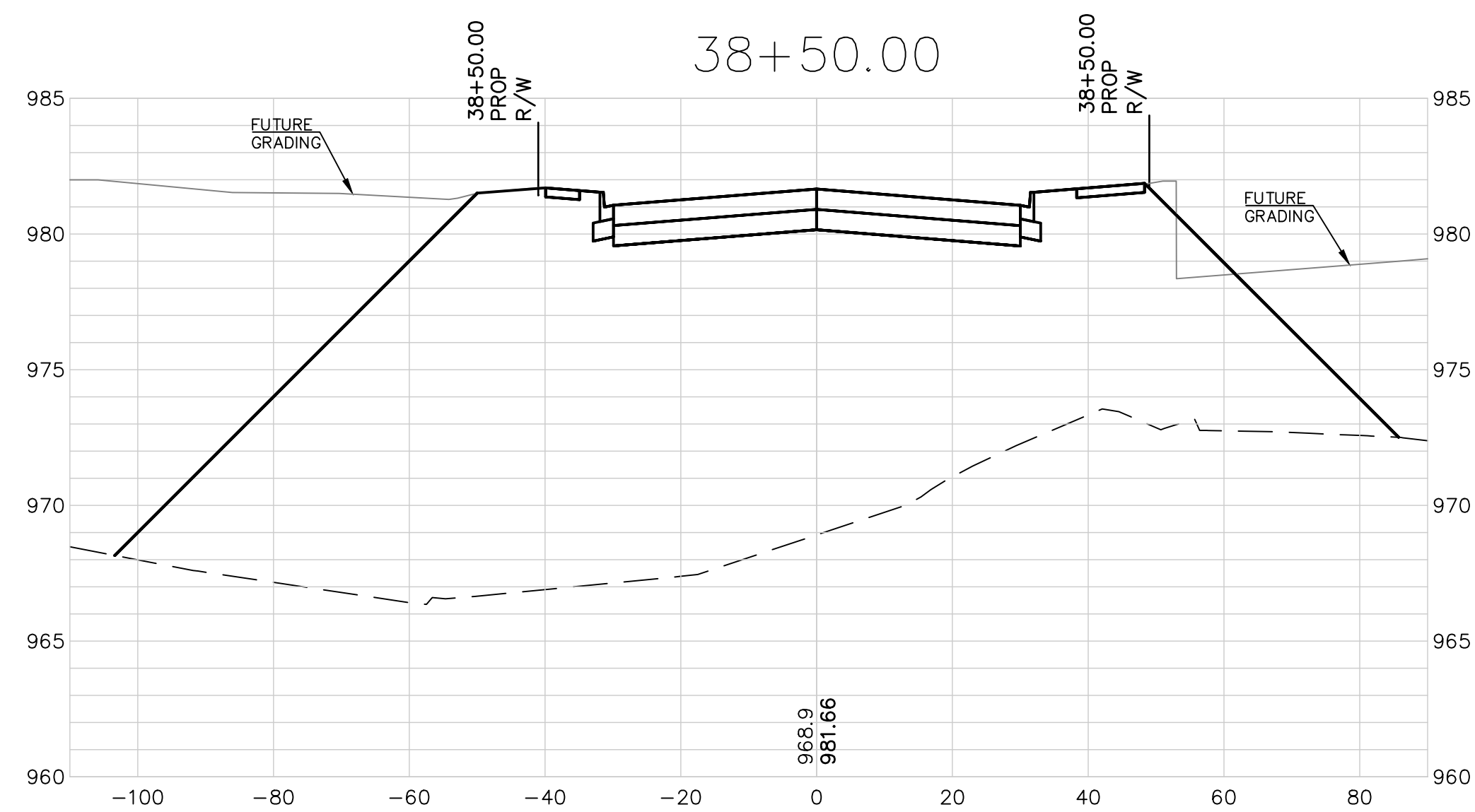
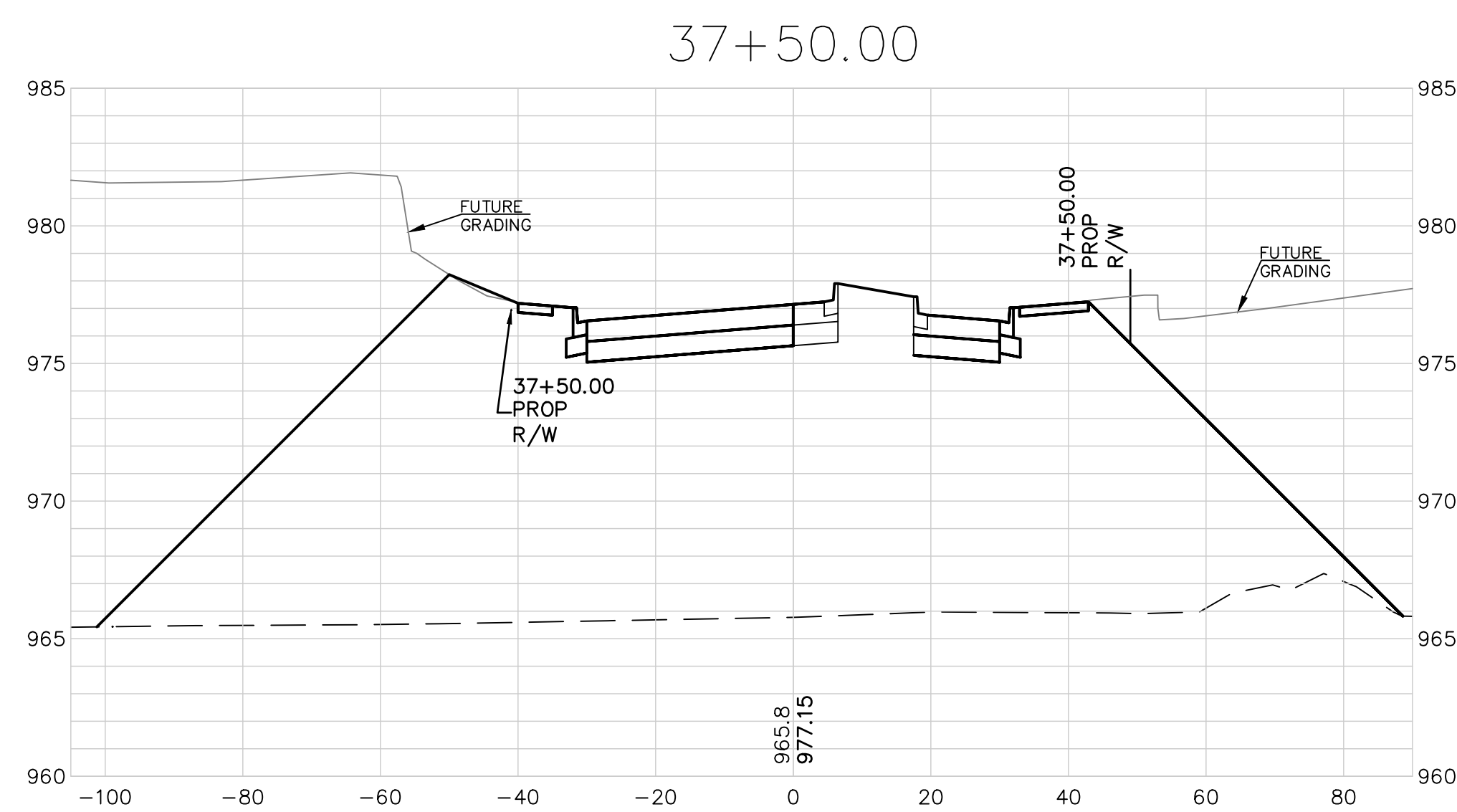
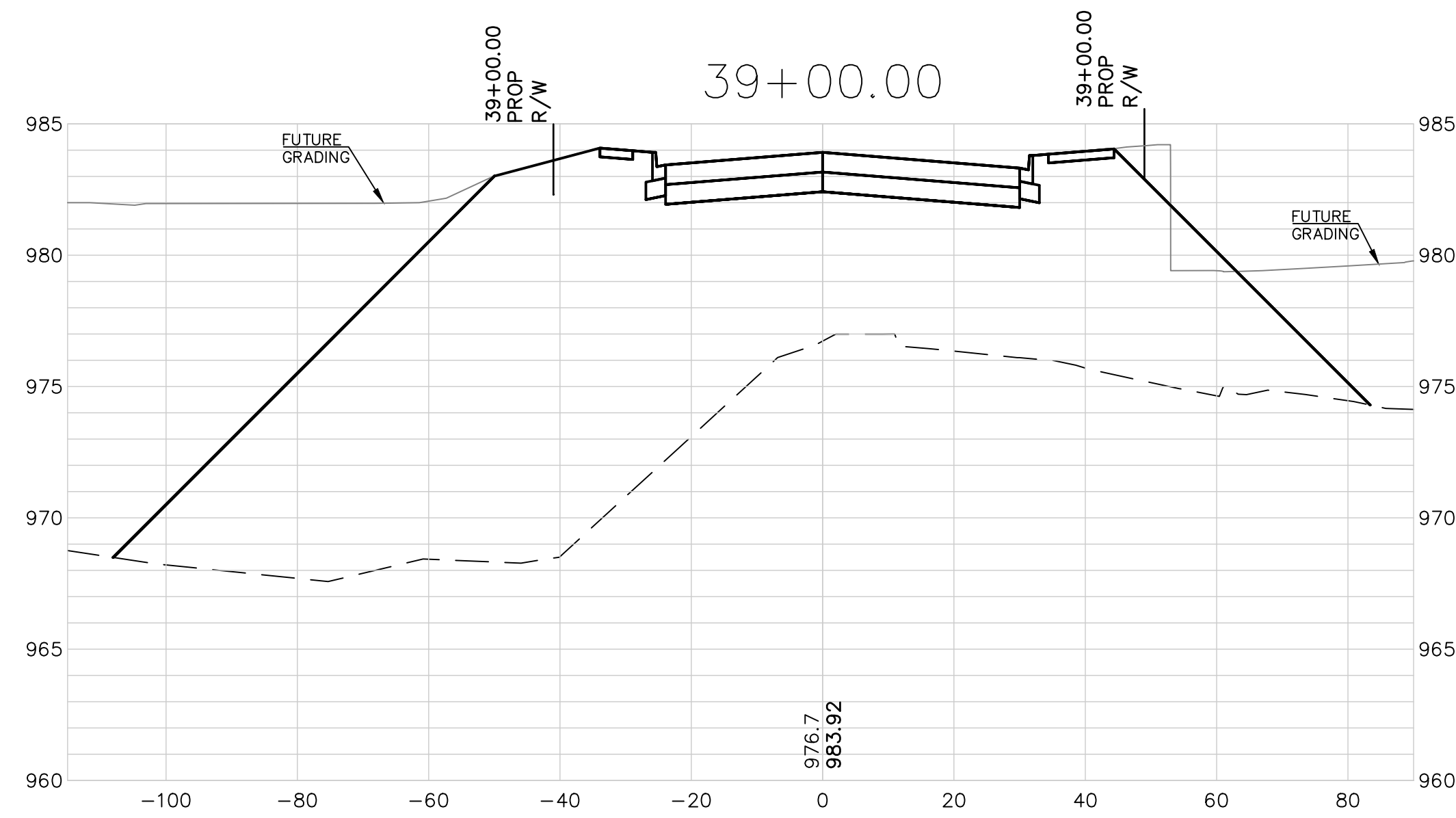
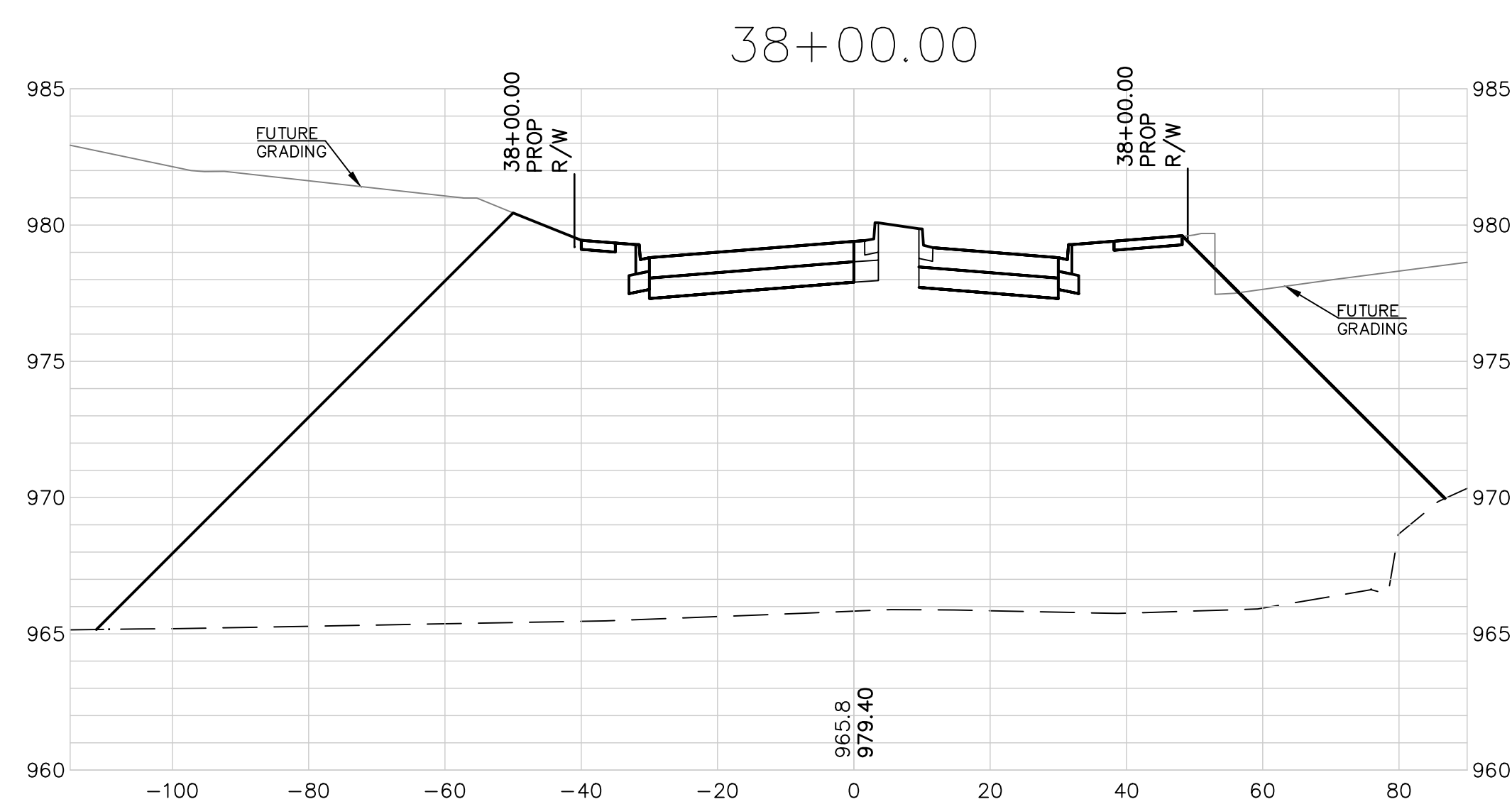
KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19

STREETS OF WEST PRYOR
NW/4 NW PRYOR ROAD & NW LOWENSTEIN DRIVE
LEE'S SUMMIT, MISSOURI

PUBLIC STREET PLANS
LOWENSTEIN DRIVE - CROSS SECTIONS

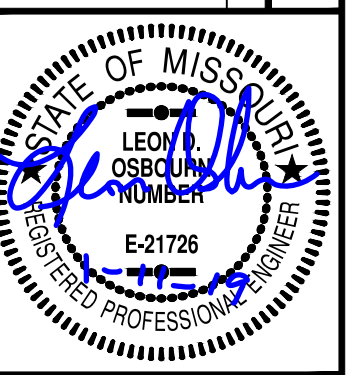
PROJ. NO.	A14_7061-1
DESIGNER	LDO
DRAWN BY	JT/BKR
CFN	7067-1PL STPP
SHEET	REV
C-42	0



NOTE: FINISH GROUND
ELEVATION REPORTED AT
CENTERLINE IS TO TOP OF
MEDIAN WHEN PRESENT.
CONSULT THE VERTICAL PROFILE
FOR PROFILE GRADE ELEVATIONS.

SCALE:
1"=20' HORIZ.
1"=5' VERT.

	0	01-11-19	INITIAL ISSUE	LDO	JT	LDO
	REV	DATE	DESCRIPTION	DSN	DWN	CHK



LEON D. OSBOURN
ENGINEER
MO # 021726

KAW VALLEY ENGINEERING

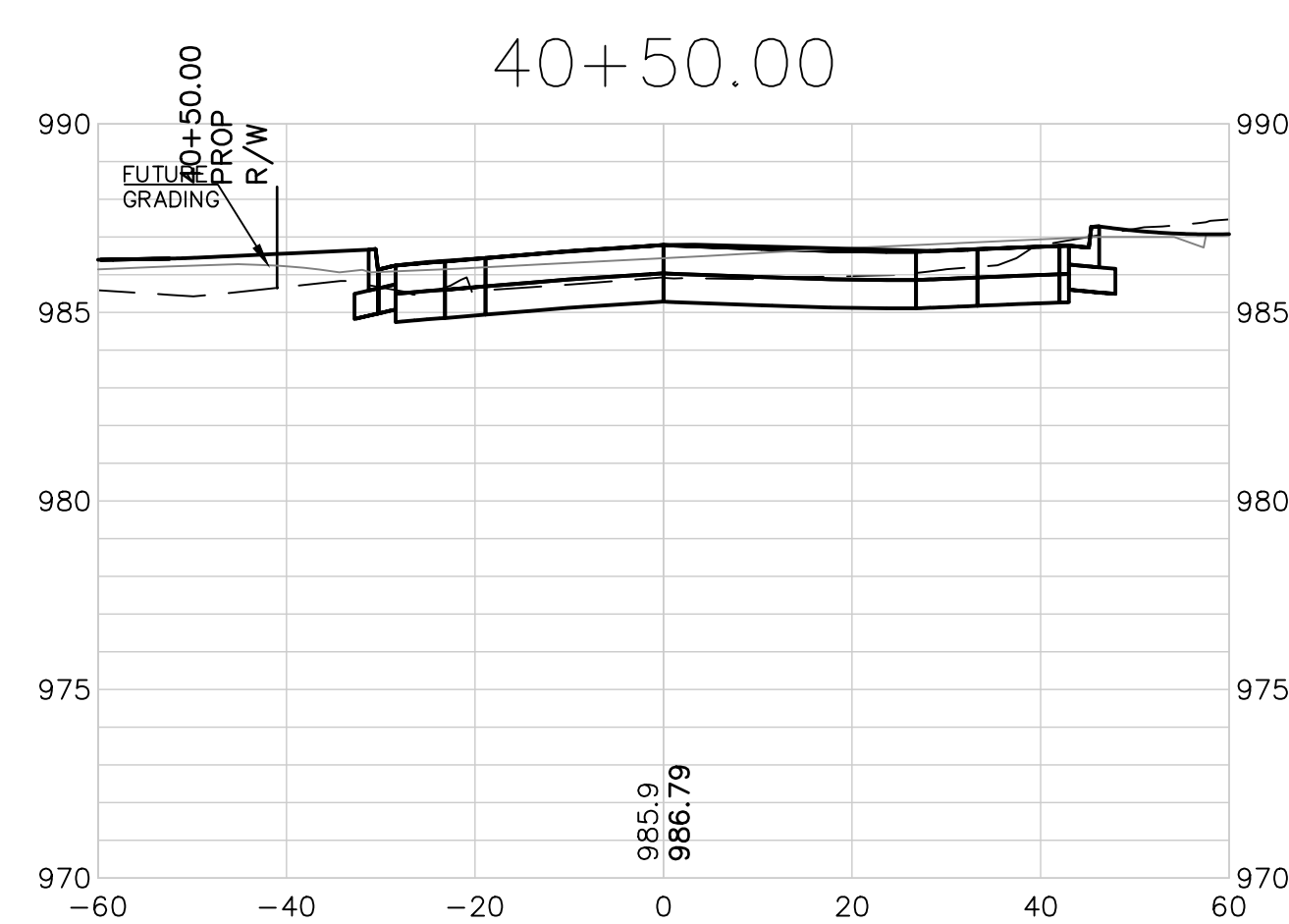
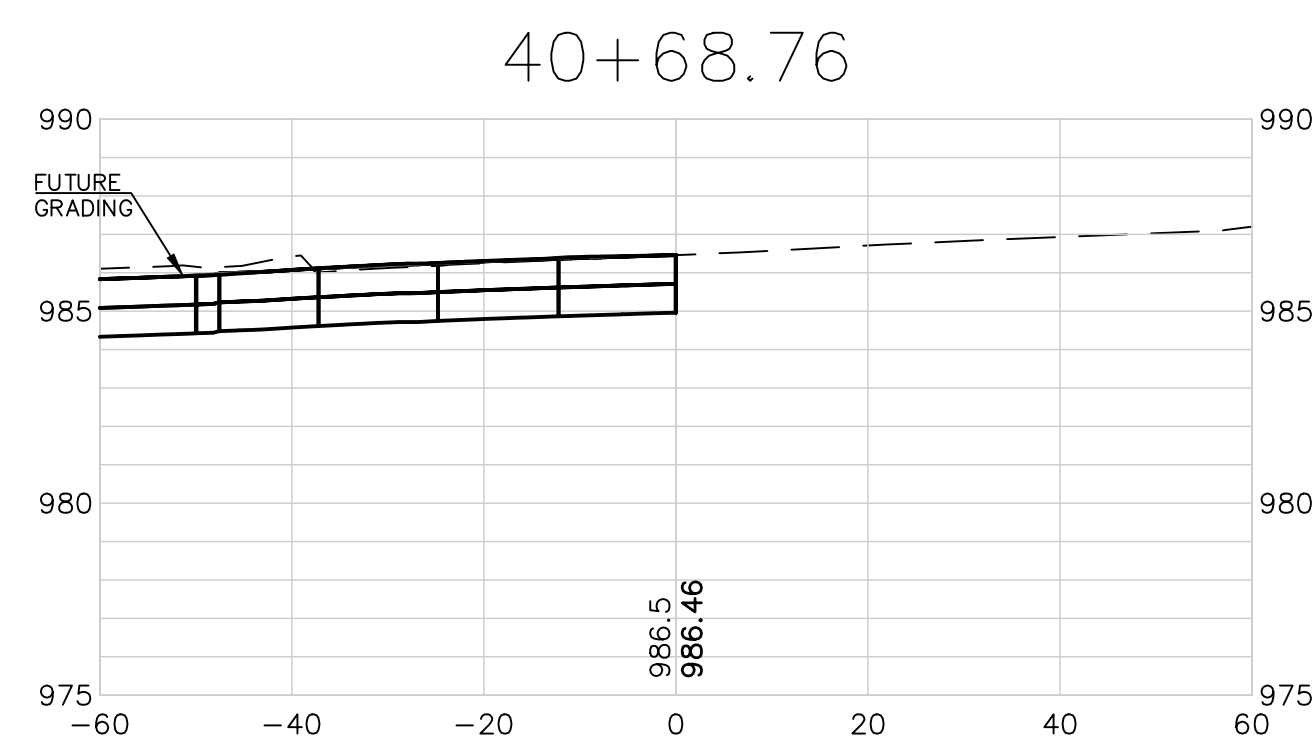
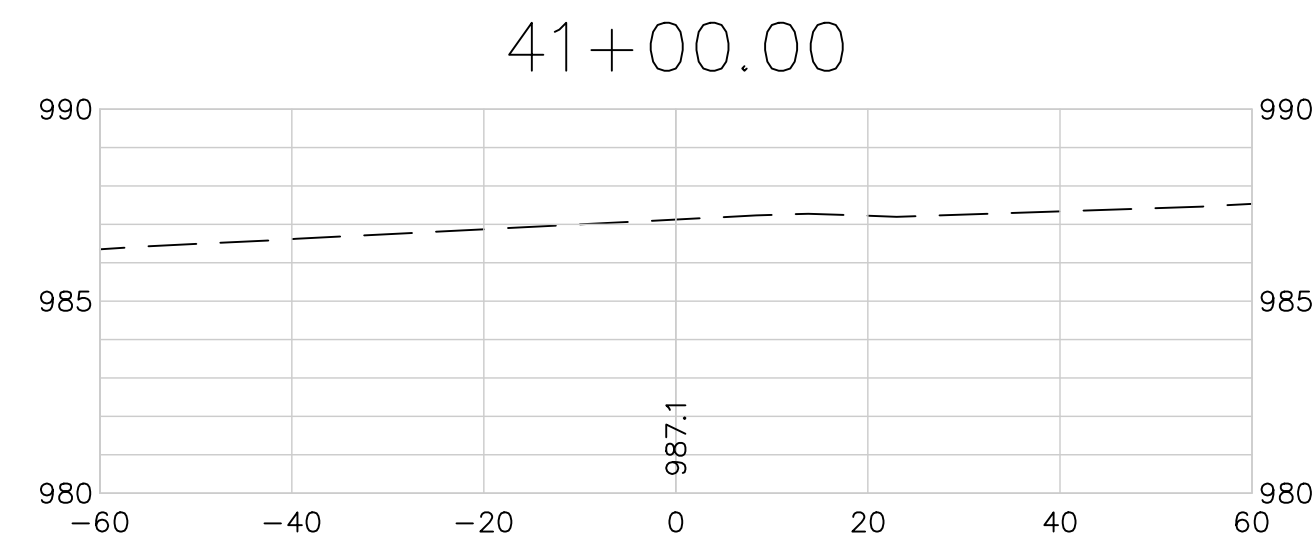
2319 N. JACKSON | P.O. BOX 1304
JUNCTION CITY, KANSAS 66441
PH. (785) 762-3040 | FAX (785) 762-7744
jke@kveeng.com | www.kveeng.com

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842 EXPIRES 12/31/19

STREETS OF WEST PRYOR
NW/4 NW PRYOR ROAD & NW LOWENSTEIN DRIVE
LEE'S SUMMIT, MISSOURI

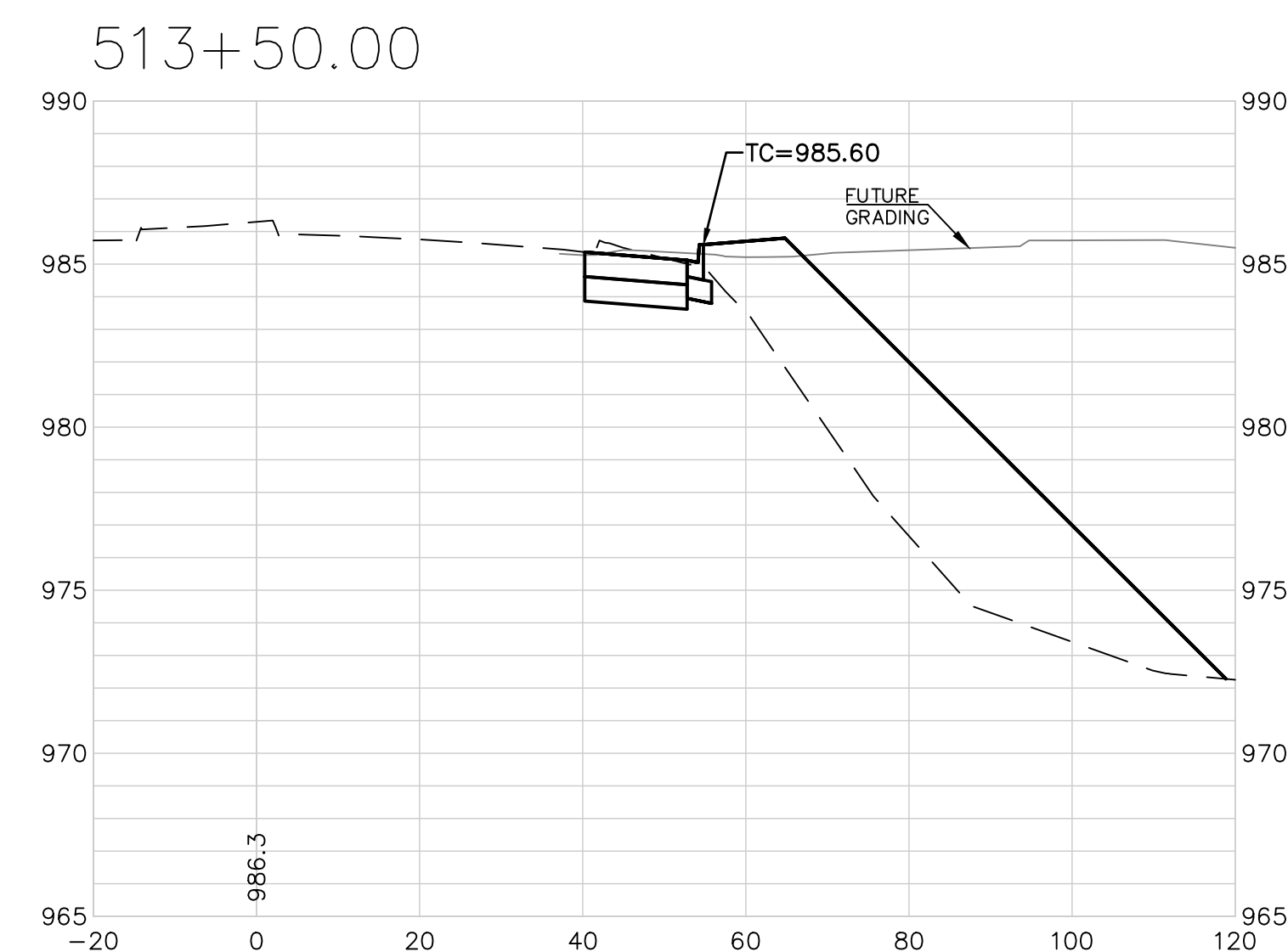
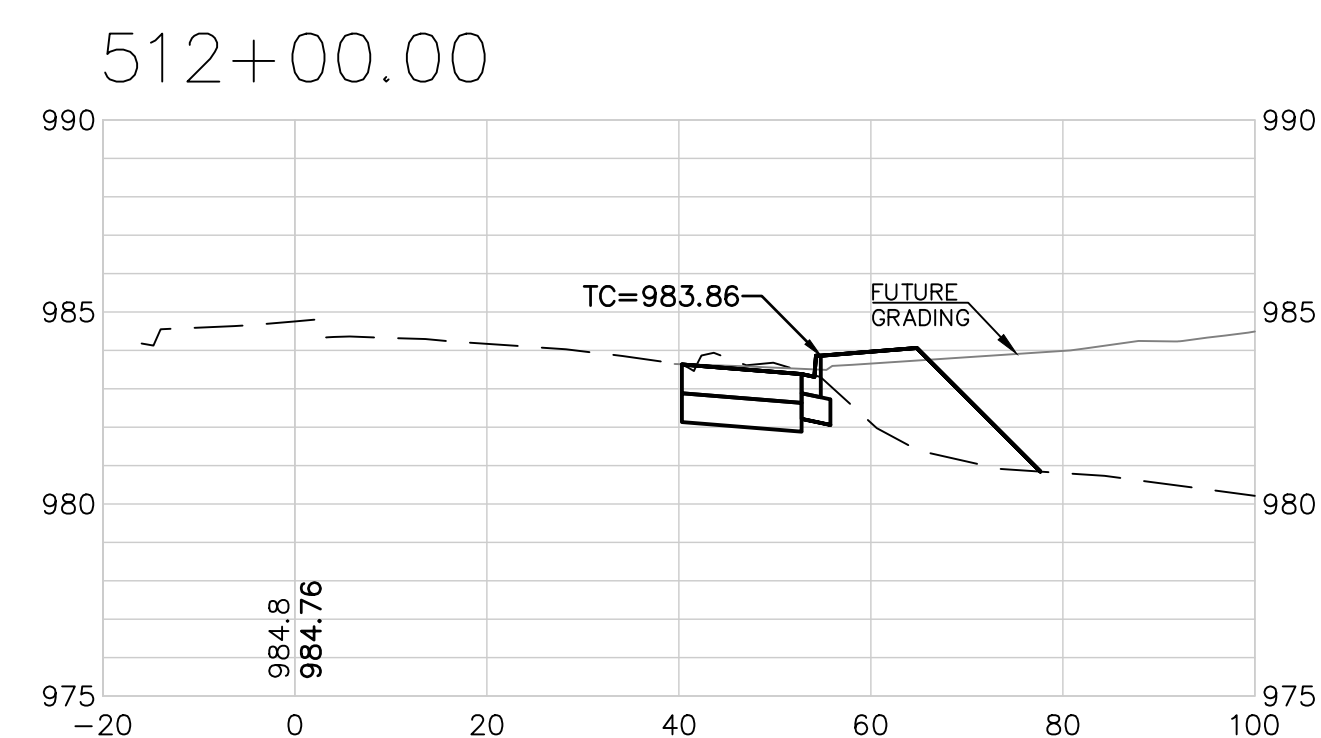
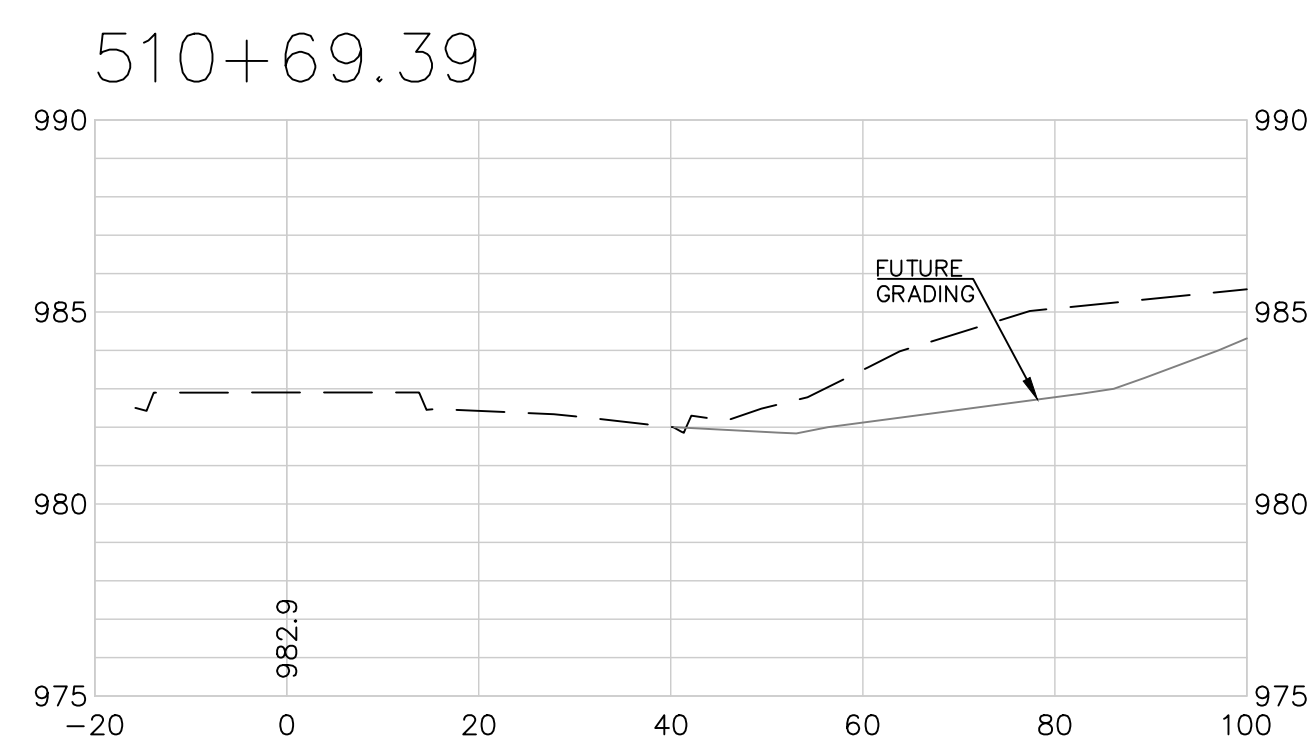
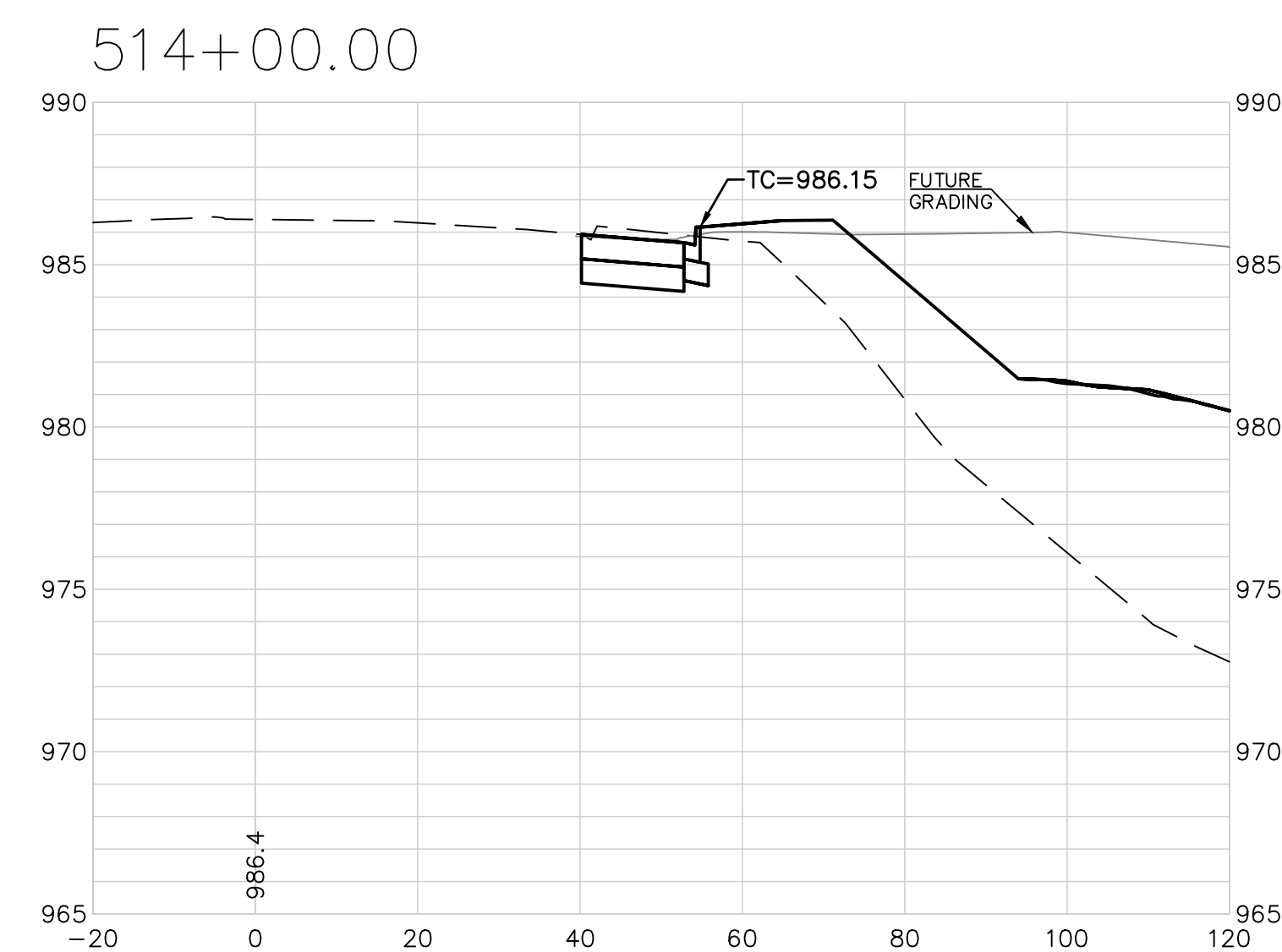
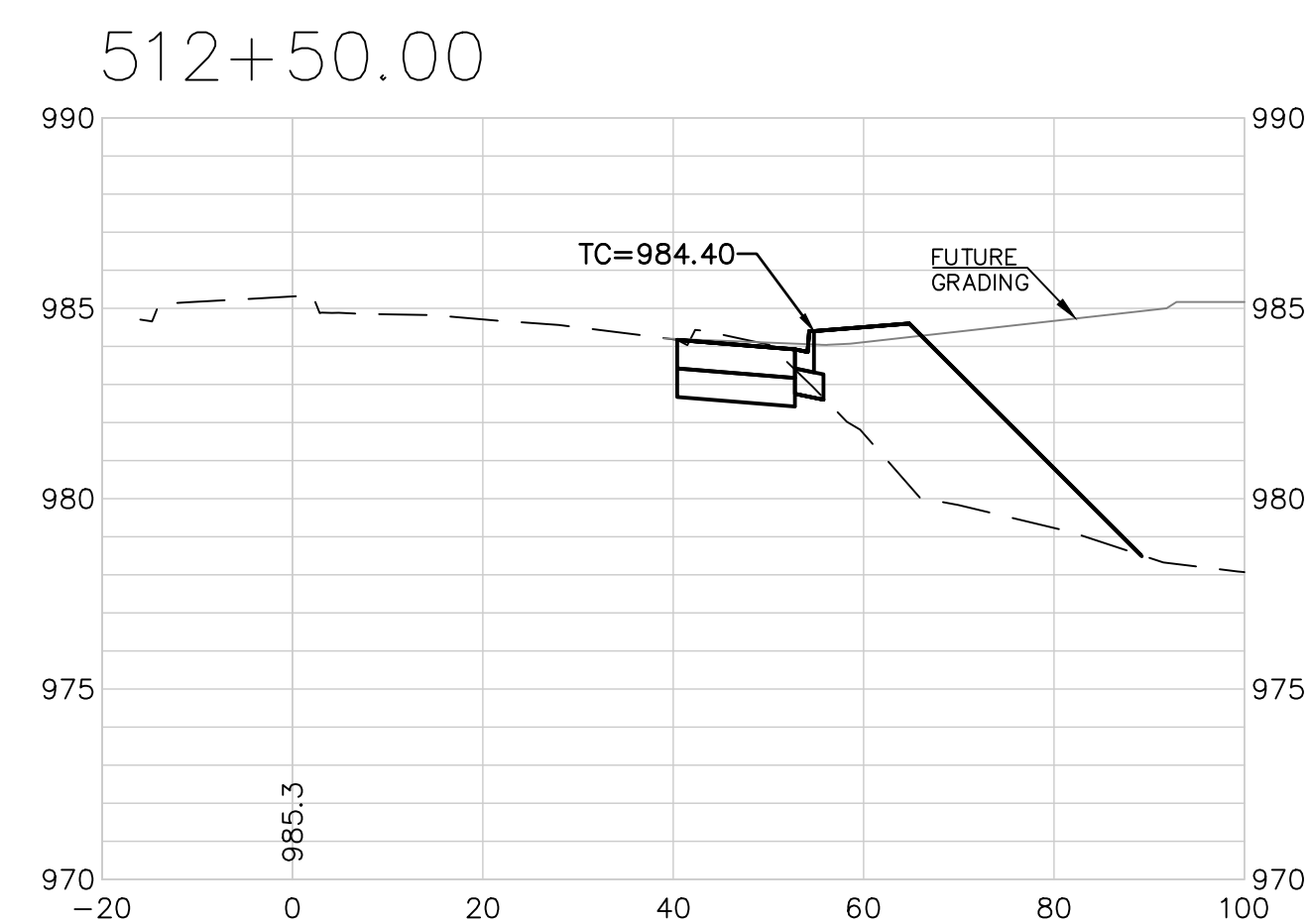
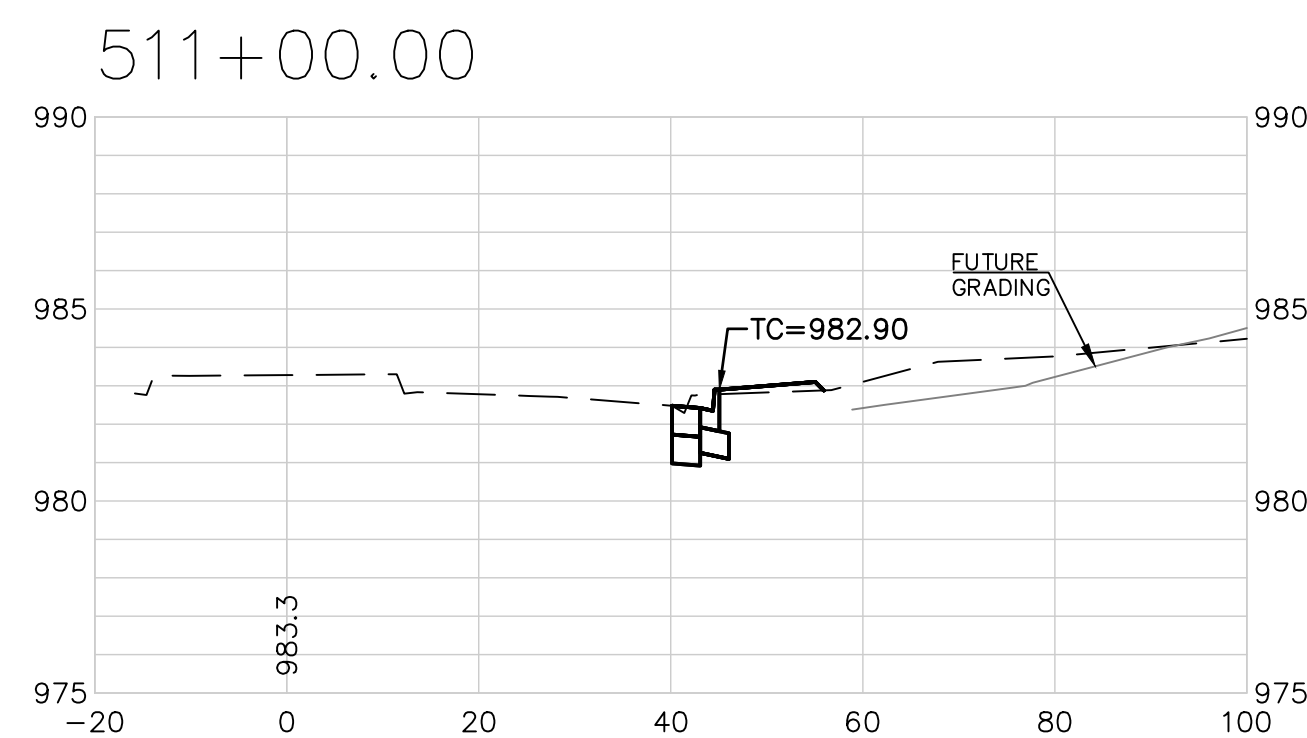
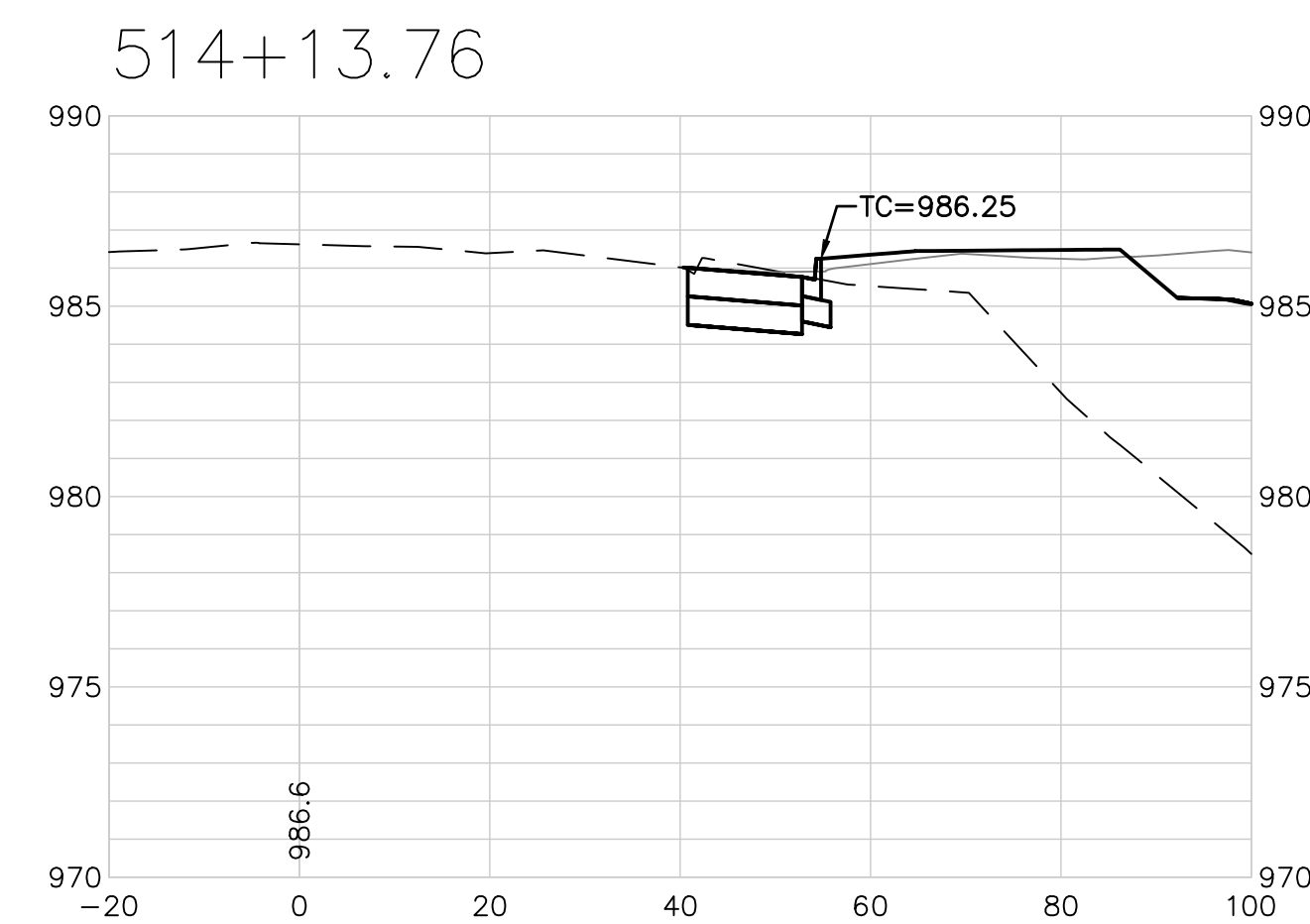
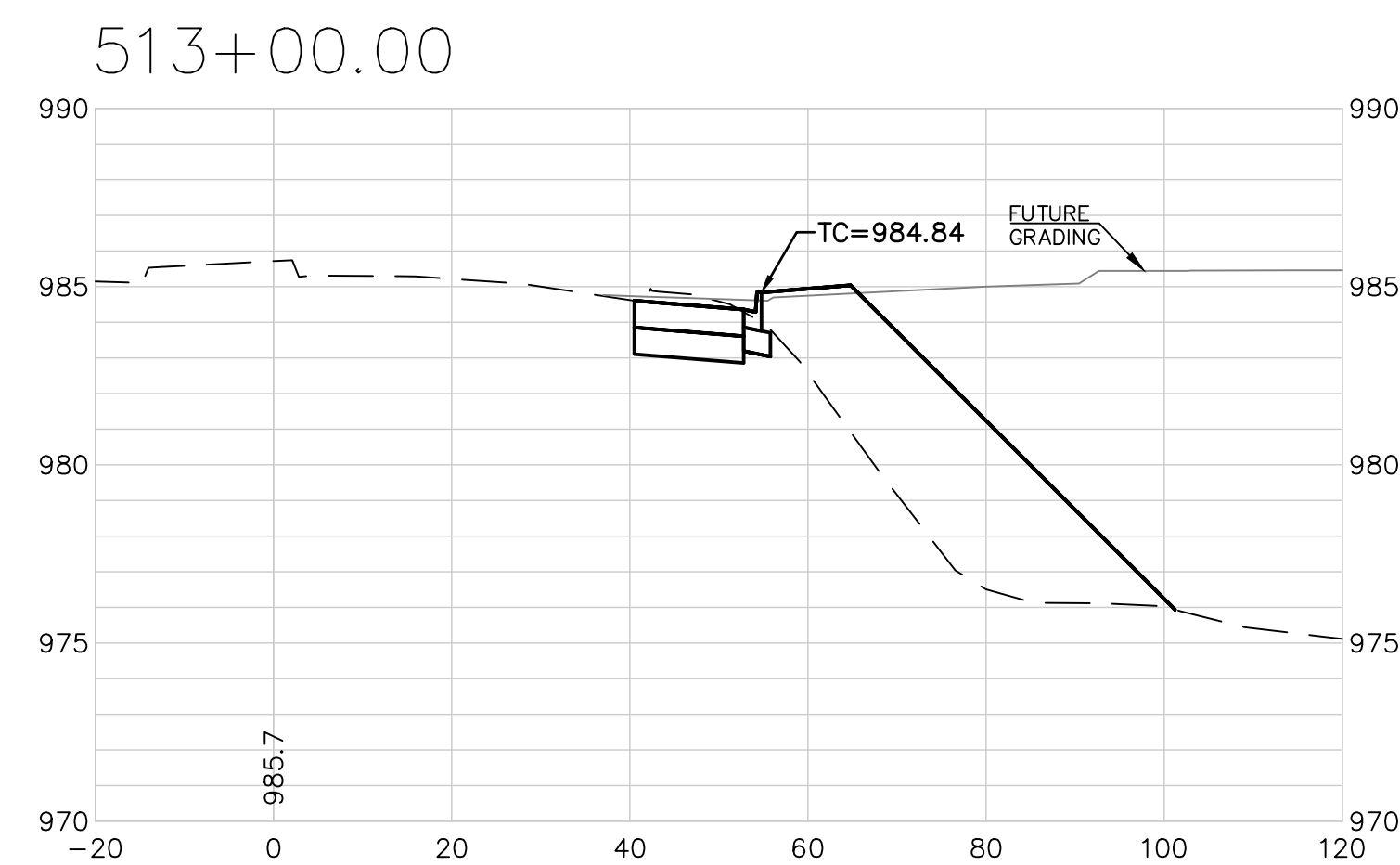
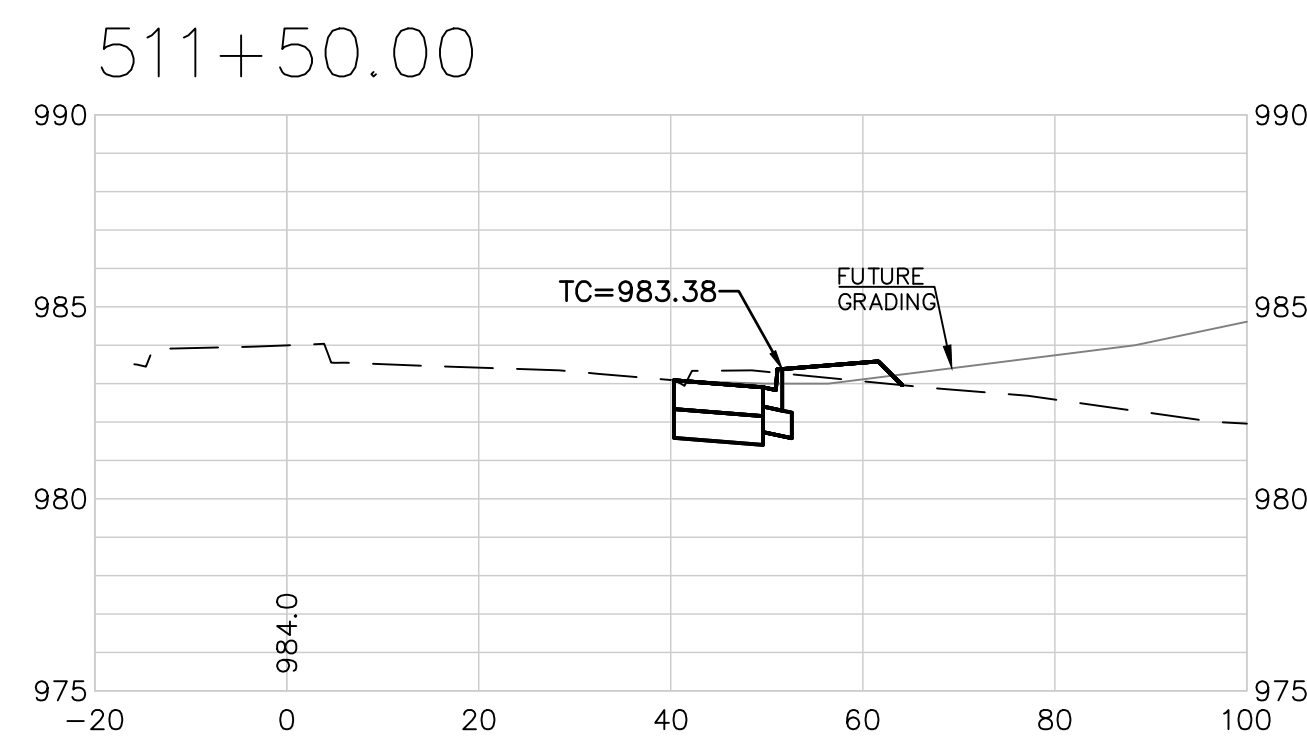
PUBLIC STREET PLANS
LOWENSTEIN DRIVE - CROSS SECTIONS

PROJ. NO.		A14_7061-1	
DESIGNER		DRAWN BY	
LDO		JT/BKR	
CFN			
7067-1PI_STPP			
SHEET		REV	
C-43		0	



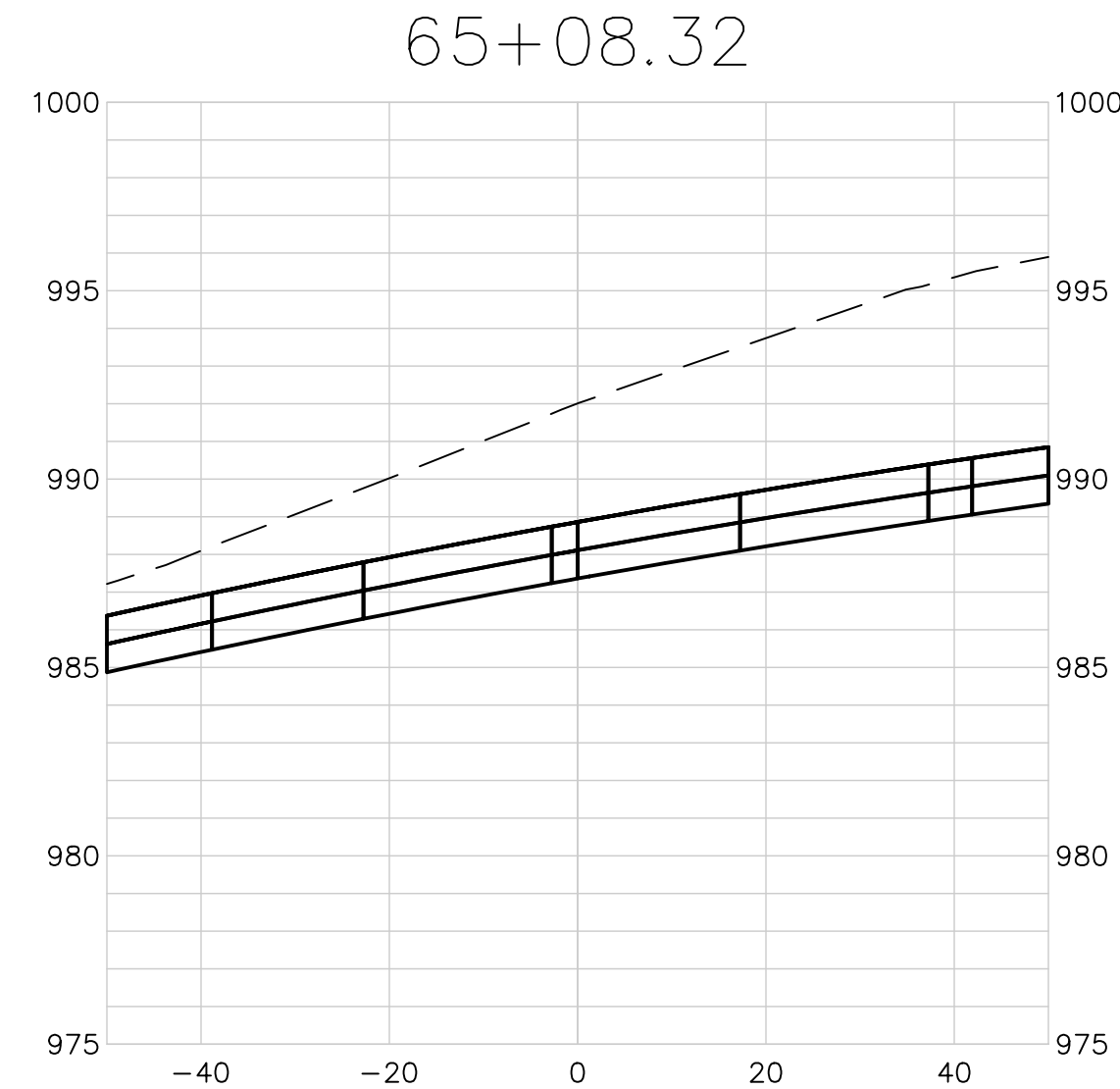
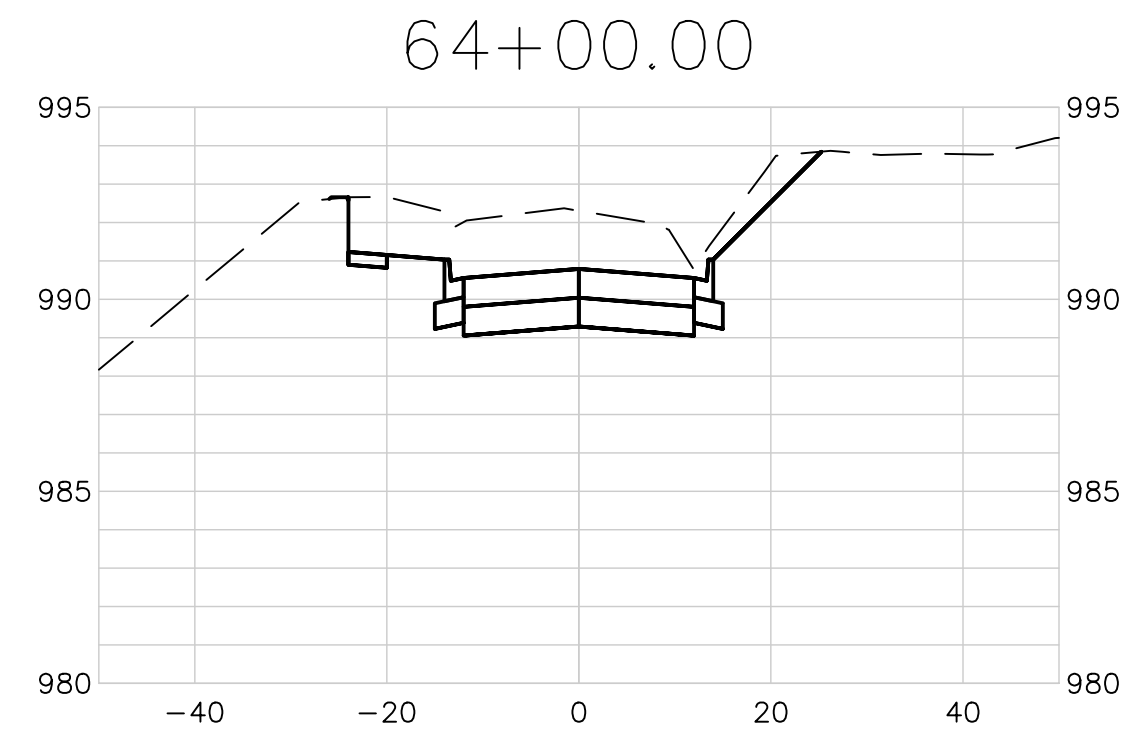
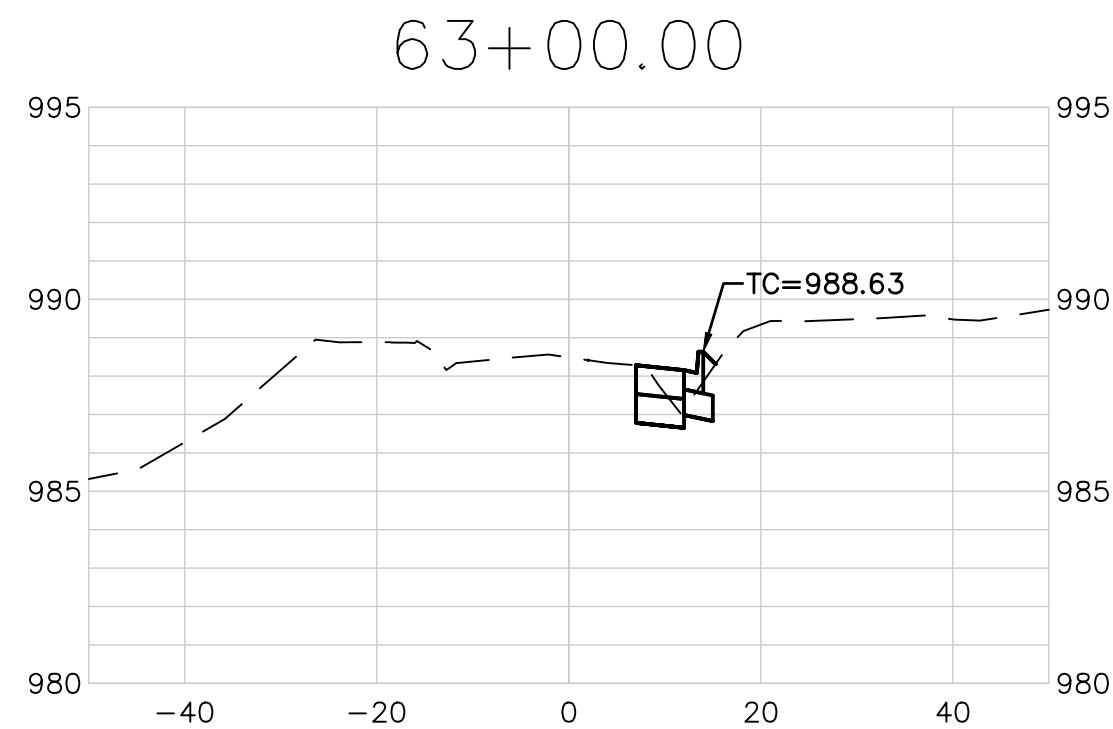
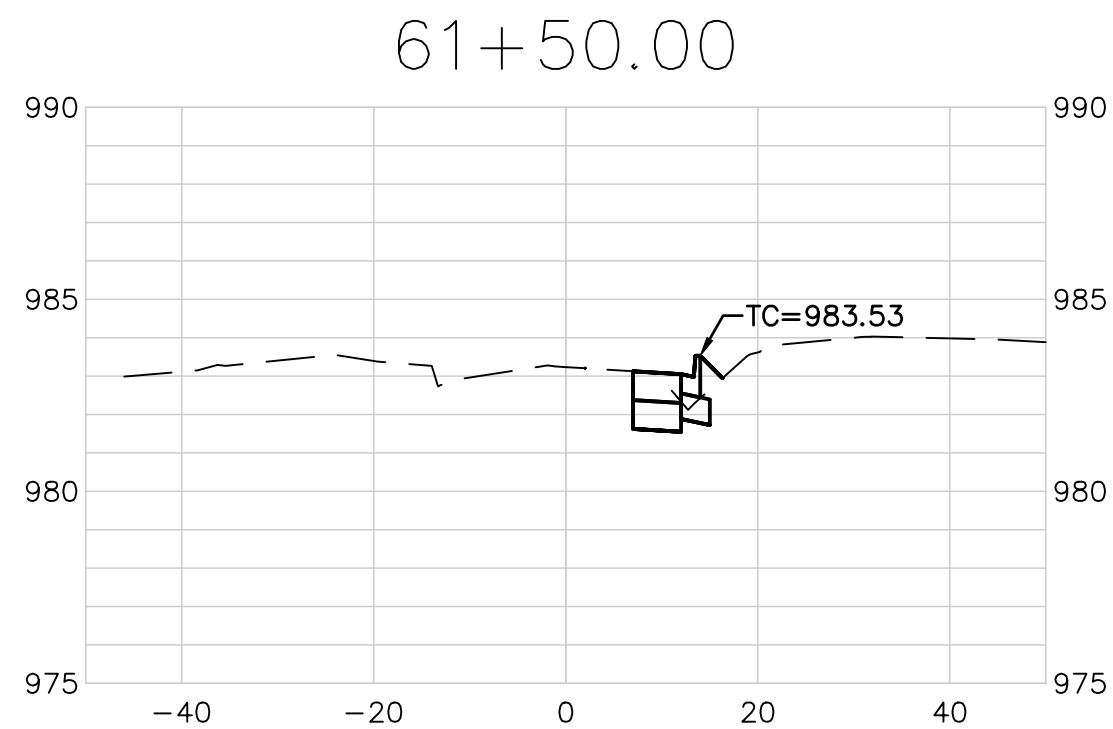
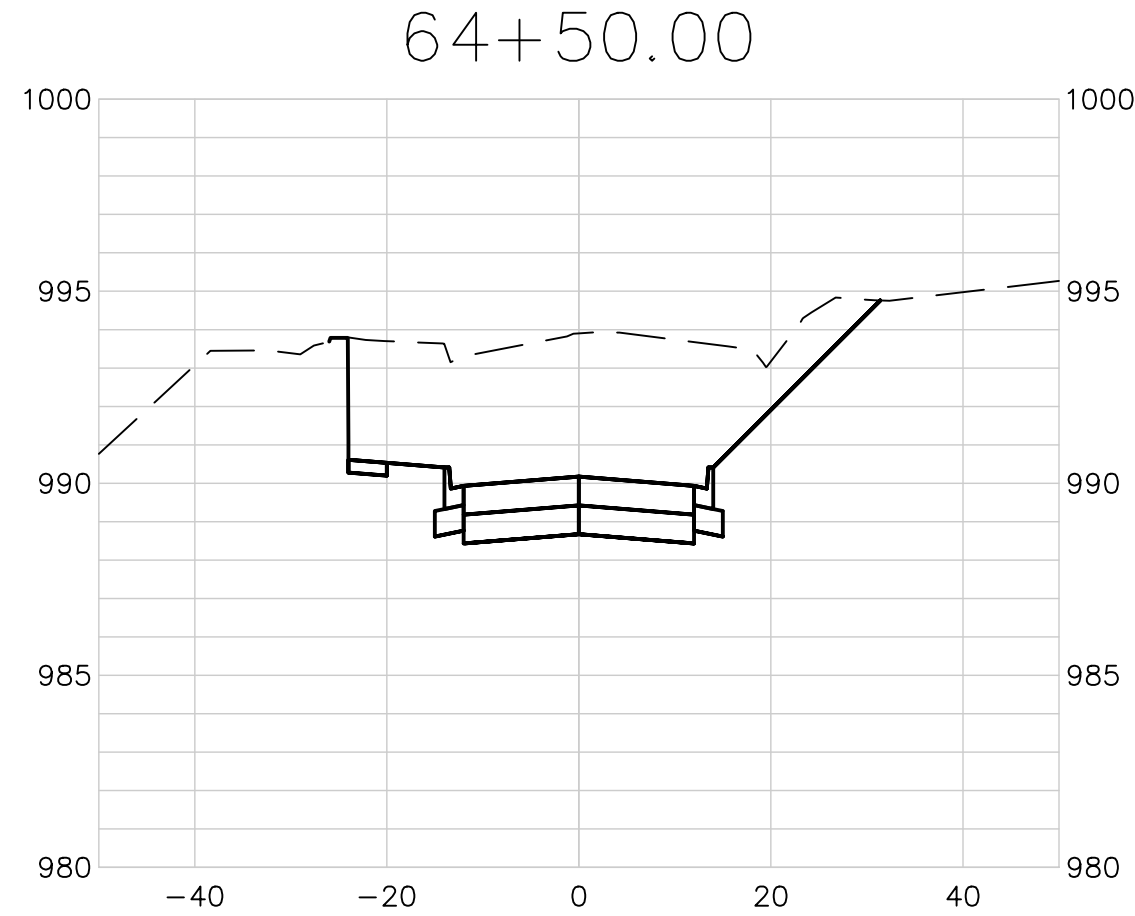
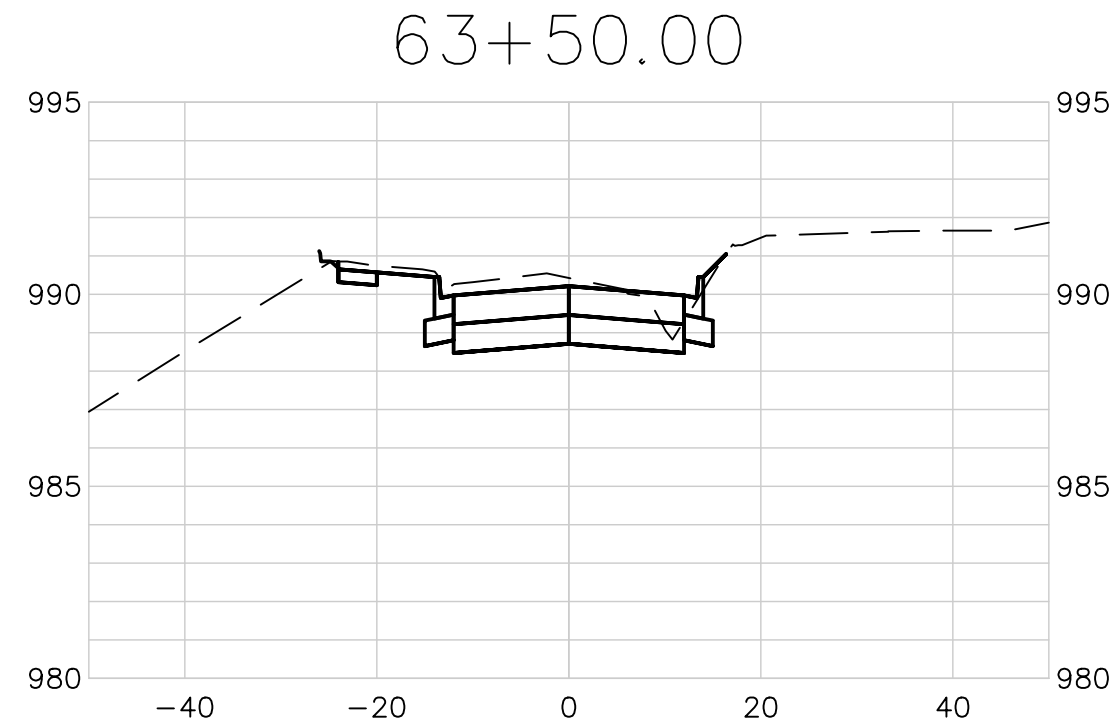
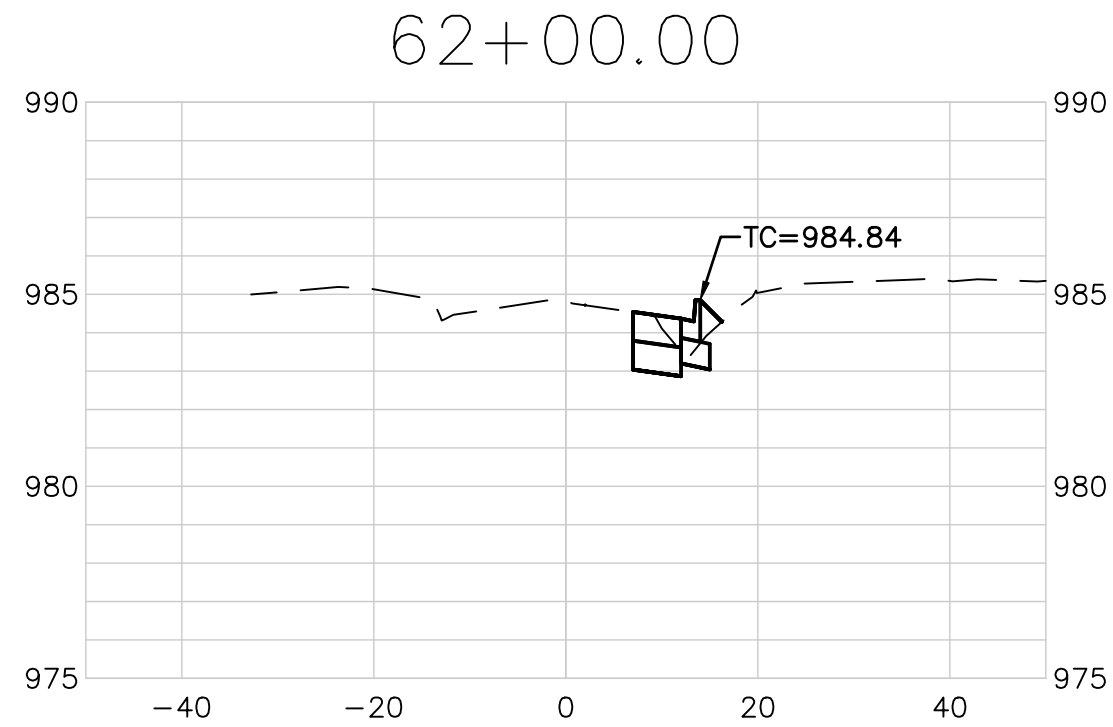
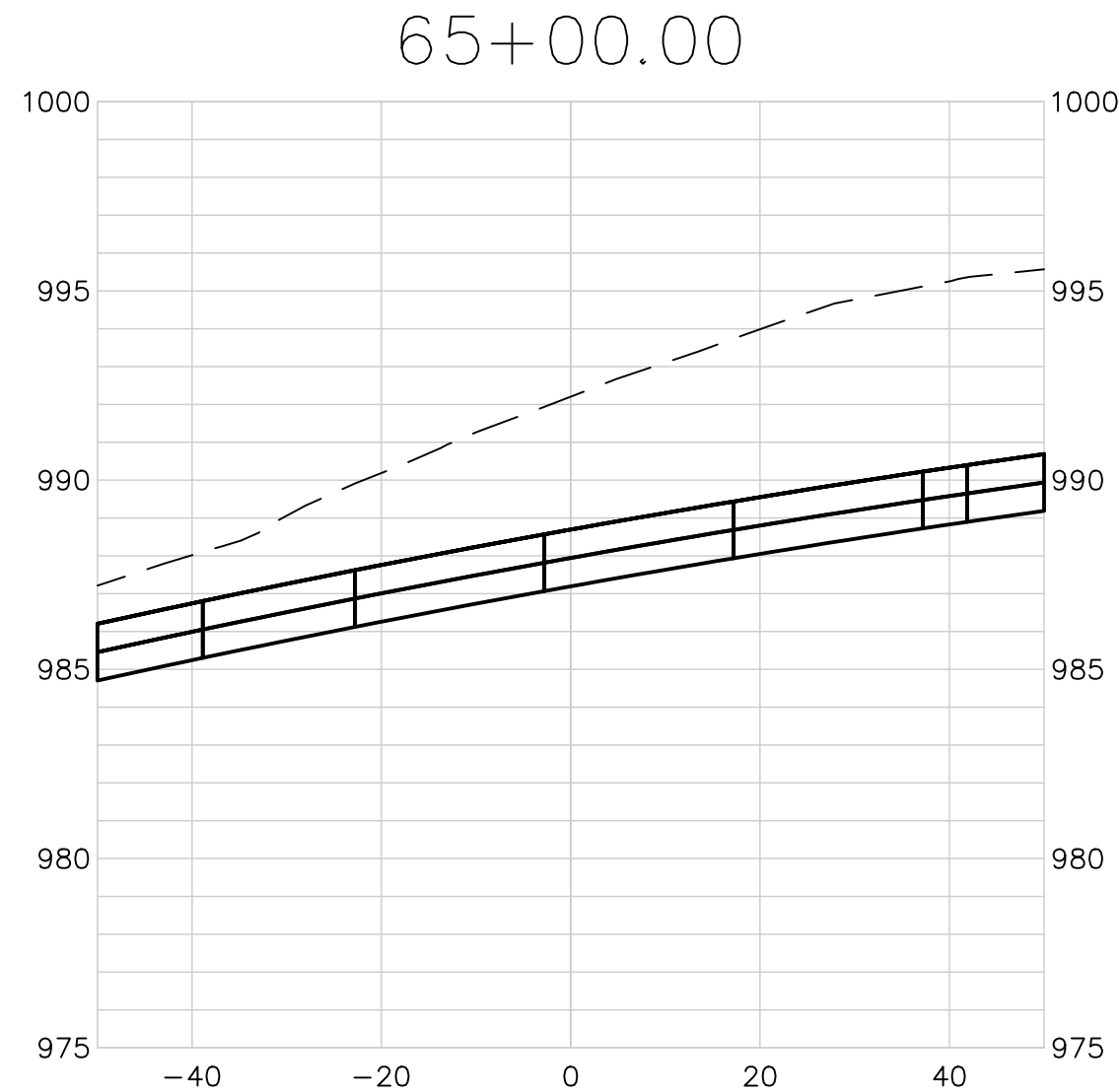
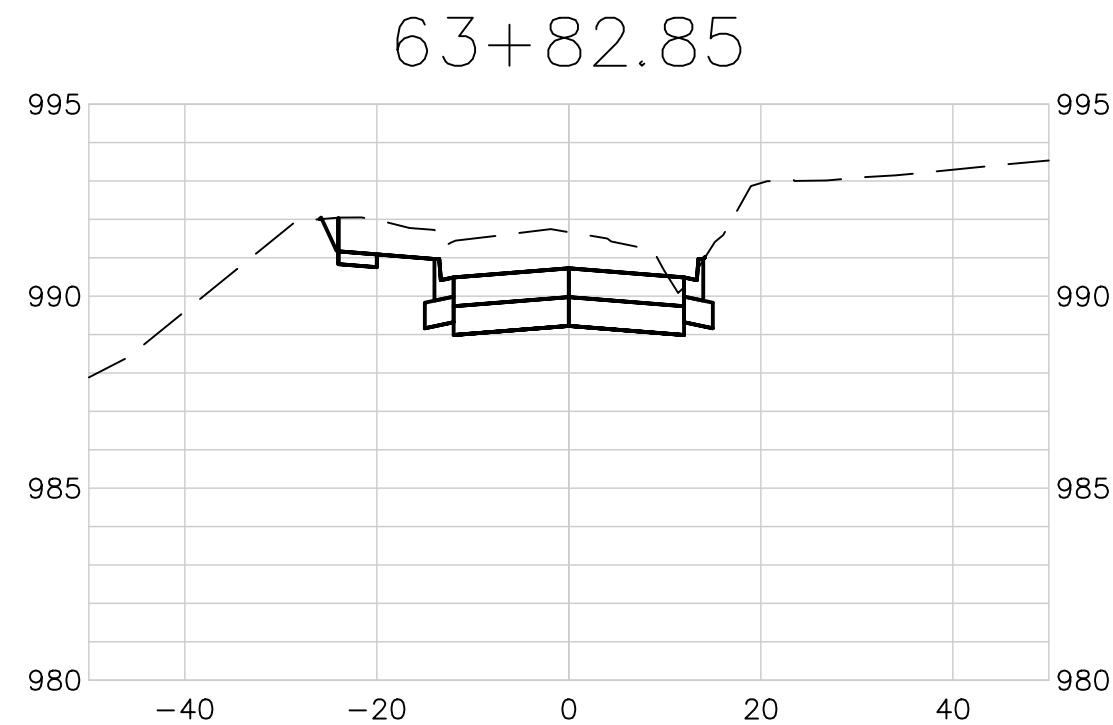
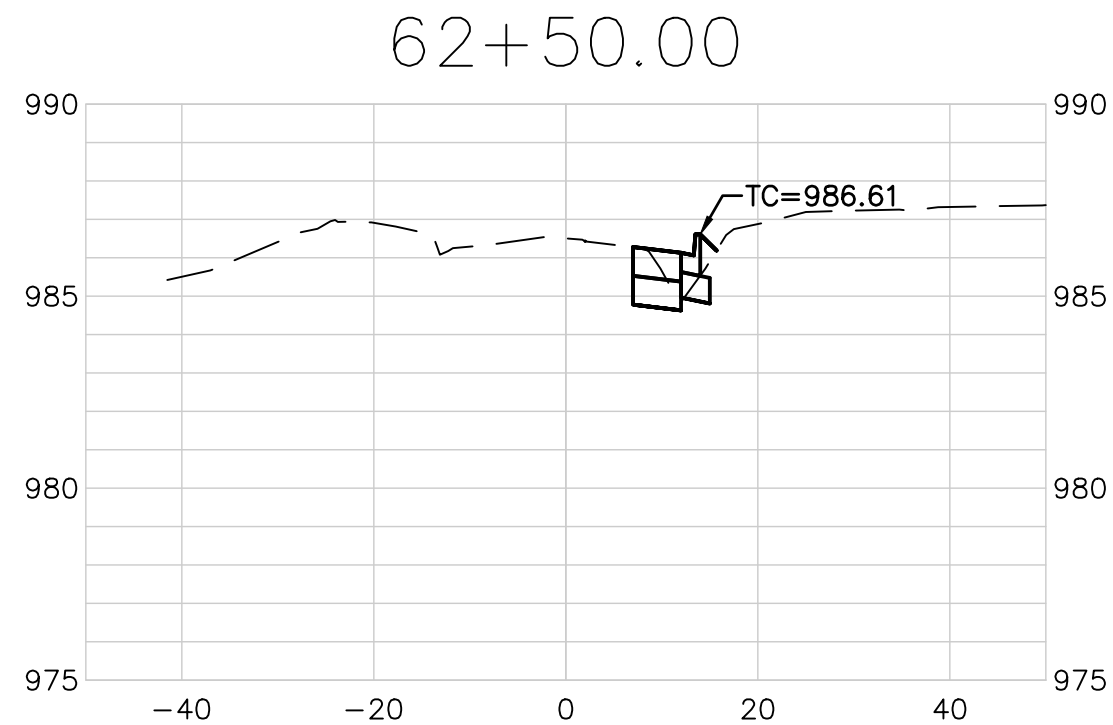
SCALE:
1"=20' HORIZ.
1"=5' VERT.

STREETS OF WEST PRYOR NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE LEE'S SUMMIT, MISSOURI		PUBLIC STREET PLANS LOWENSTEIN DRIVE - CROSS SECTIONS	
PROJ. NO. A14 7061-1		DRAWN BY JT/BKR	
DESIGNER LDO		CHECKED JT	
CFN 7067-1PI		STPP STPP	
SHEET C-44		REV 0	



SCALE:
1"=20' HORIZ.
1"=5' VERT.

		LDO JT	LDO DSN	LDO CHK
LEON D. OSBOURN ENGINEER MO # 021726		01-11-19	INITIAL ISSUE	REV DATE DESCRIPTION
 KAW VALLEY ENGINEERING KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19		LEON D. OSBOURN ENGINEER MO # 021726		
2319 N. JACKSON, P.O. BOX 1304 JACKSON, MISSOURI 64501 PH: (785) 765-5040 FAX: (785) 762-7744 l.d@kveeng.com www.kveeng.com		LEON D. OSBOURN ENGINEER MO # 021726		
PROJECT NO. A14_7061-1 DESIGNER LDO CHECKED JT/BKR		PUBLIC STREET PLANS NW PRYOR DRIVE WIDENING - CROSS SECTIONS		
C-45		0		



SCALE:
1"=20' HORIZ.
1"=5' VERT.

		LDO	CHK
		JT	DWN
		LDO	DSN
		INITIAL ISSUE	DESCRIPTION
		01-11-19	REV DATE
		0	REV

LEON D. OSBOURN
ENGINEER
MO # 021726

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KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19

STREETS OF WEST PRYOR
NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE
LEE'S SUMMIT, MISSOURI

PUBLIC STREET PLANS
BLACK TWIG - CROSS SECTIONS

PROJ. NO. A14-7061-1	
DESIGNER LDO	DRAWN BY JT/BKR
CFN 7067-1PI STPP	
SHEET C-48	REV 0