

CONSTRUCTION PLANS FOR NINTEEN DRIVE & NW BLACK T IMPROVEMENTS STREETS OF WEST PRYOR LEE'S SUMMIT, MISSOURI

² JULY 2019

Map of the project location showing NW Quarry Park Rd, NW Lowenstein Dr, NW Chipman Rd, Ashurst Dr, and NW Pryor Rd. The project location is marked with a black outline and labeled "PROJECT LOCATION". A north arrow and "NOT TO SCALE" are also present.

LOCATION MAP
CITY OF LEE'S SUMMIT, MISSOURI

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CALL BEFORE YOU
DIG - DRILL - BLAST
1-800-344-7483
(TOLL FREE)

MISSOURI ONE CALL SYSTEM, INC.

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 THE SURVEY. THE SURVEYOR HAS NO GUARANTEE THAT ALL 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 NO LIABILITY FOR DAMAGES FROM 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 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 CONTEMPORARY BASIS AT THE SITE.

	POSTED SPEED	DESIGN SPEED
NW LOWENSTEIN DRIVE	25	25
NW BLACK TWIG LANE	25	25

APPROVED THIS _____ DAY OF _____, _____

OWNER: MATT PENNINGTON

APPROVED THIS _____ DAY OF _____, _____

CITY APPROVAL

OWNER:
STREETS OF WEST PRYOR, LLC
7200 WEST 132ND STREET
OVERLAND PARK, KS 66213
CONTACT: MATT PENNINGTON
email: matt@drakekc.com

DEVELOPER:
STREETS OF WEST PRYOR, LLC
7200 WEST 132ND STREET
OVERLAND PARK, KS 66213
AGENT: DAVID N. OLSON
email: daveolson@monarchprojectllc.com

PREPARED BY:
KAW VALLEY ENGINEERING, INC.
2319 N. JACKSON
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785-762-5040
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EMAIL: ldo@kvenq.com

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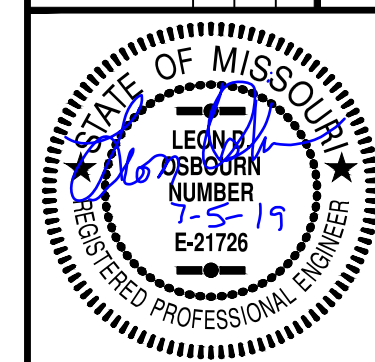
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DATUM BENCHMARK:
VERTICAL DATUM IS NAVD 88 ESTABLISHED USING OPUS PROJECTS ON PROJECT CONTROL

BENCHMARKS:

BM #1: CHISELED "SQUARE" ON TOP OF CURB POINT OF INTERSECTION OF WEST PARK
PARKING LOT AT EAST DRIVE ENTRANCE. ELEV=984.97

BM #2: CHISELED "SQUARE" ON NORTHWEST CORNER AREA INLET, 25'± EAST OF CUR LINE AND ON-LINE WITH SOUTH CURB OF LOWENSTEIN DRIVE AT 90° BEND IN ROAD.

[illegible]

LEON D. OSBOURN
ENGINEER
MO # 021726

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KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842.

STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

PUBLIC STREET PLANS
TITLE SHEET

PROJ. NO.	
A14_7067-1	
DESIGNER	DRAWN BY
LDO	JT/BKR
CFN	
7067-1PI_TS	
SHEET	REV
1	2

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

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2. THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE EXISTING SURFACING ON STREETS NEEDED TO BE TRAVELED UPON BY EQUIPMENT DURING CONSTRUCTION, AND IF DAMAGED, HE SHALL REPLACE THE SURFACING AND REPAIR THE STREET TO THE ORIGINAL CONDITION. NO TYPE OF EARTH MOVING EQUIPMENT WILL BE PERMITTED TO HAUL ON OR OVER ANY EXISTING STREET.

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.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

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.

6. JOINT SPACING FOR CONCRETE PAVEMENT SHALL BE MODIFIED TO MEET THE CONTRACTOR'S CONSTRUCTION EQUIPMENT AND METHODS OF POURING. CONTRACTOR TO DRILL AND INSERT EPOXY-COATED DOWEL BARS INTO CONSTRUCTION JOINTS AND HEADERS. CONTRACTOR TO SAW-CUT CLEAN VERTICAL EDGE AT JOINT LOCATION. SAWED CONTRACTION JOINTS SHALL BE REQUIRED ON MAXIMUM 12'-0" CENTERS.

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

8. ALL SANITARY SEWER, WATER MAINS AND STORM SEWER UNDER PAVEMENTS SHALL BE BACKFILLED WITH MODOT TYPE 5 AGGREGATE IN TRENCHES GREATER THAN 24" AND FLOWABLE IN TRENCHES LESS THAN 24".

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.

10. PIPE LENGTHS ARE CENTER TO CENTER OF STRUCTURE OR TO END OF 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.

12. CONTRACTOR SHALL COMPLETE ROUGH SITE AND STREET GRADING PRIOR TO INSTALLATION OF UTILITIES.

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.

14. CUT AND FILL SECTIONS ARE TYPICAL ONLY. NEITHER ALTERNATE PAVEMENT TYPE IS SPECIFIED FOR EXCLUSIVE USE WITH CUT OR FILL SECTIONS. REFER TO SPECIFICATIONS FOR INFORMATION ON FLY ASH TREATED SUBGRADE, CRUSHED AGGREGATE BASE COURSE, AND PAVEMENT UNDERDRAINS.

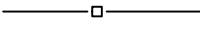
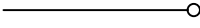
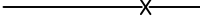
15. WHERE CURB AND GUTTER IS MONOLITHIC WITH THE STREET, THE CURVE SHALL BE POURED AT THE SAME DEPTH AS THE STREET.

16. UNLESS SPECIFIED OTHERWISE, KCMMB 4K IS REQUIRED FOR ALL CONCRETE.

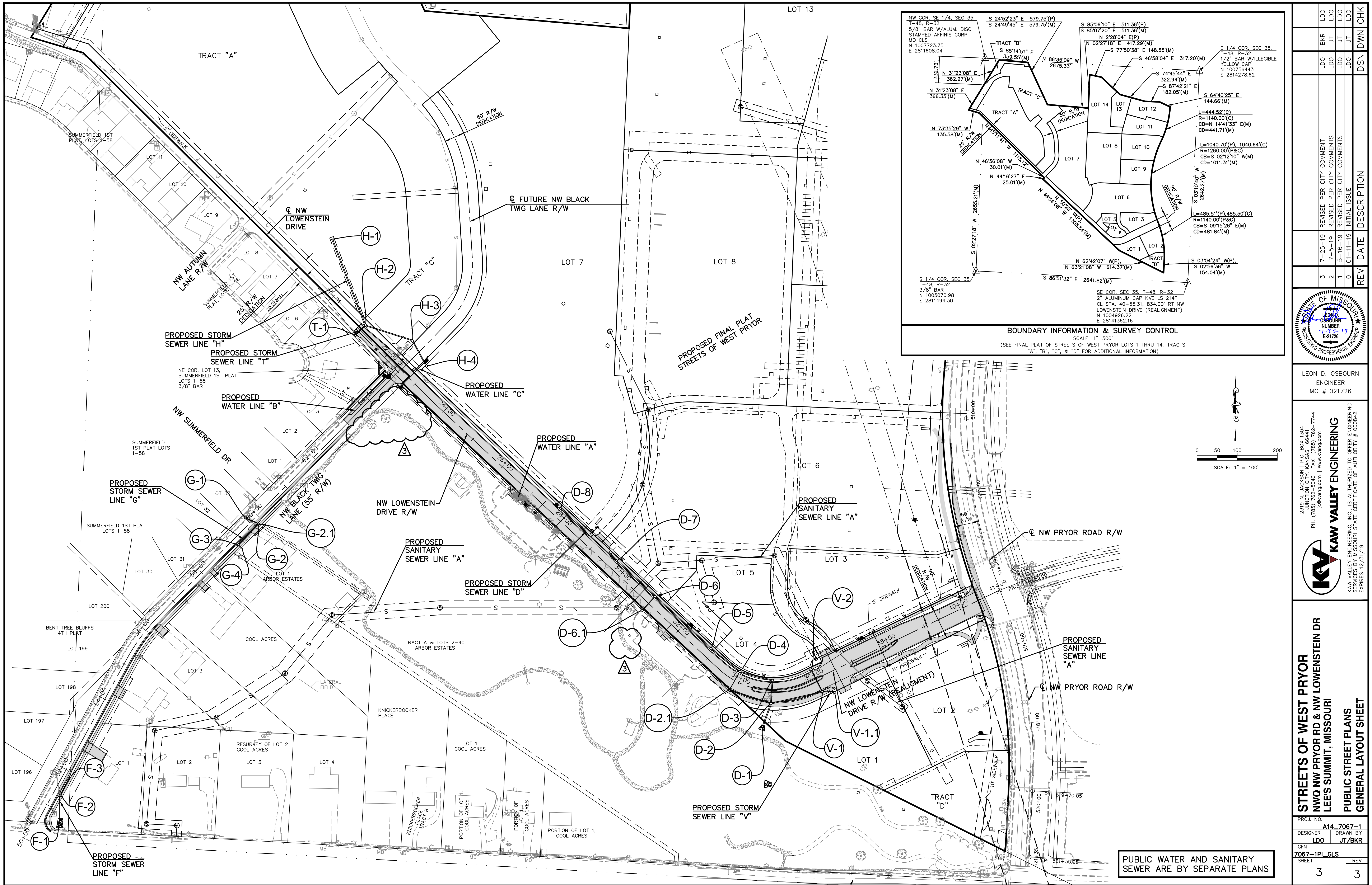
20. THE STANDARD SPECIFICATIONS AND DESIGN CRITERIA OF THE CITY OF LEE'S SUMMIT SHALL GOVERN THE CONSTRUCTION OF ALL PUBLIC IMPROVEMENTS FOR THIS PROJECT.

Summary of Quantities			
Sanitary Sewer			
Item No.	Item	Estimated Quantity	Unit
1	Connect to Existing Manhole	2	Ea.
2	8" Sewer Main	4,346	L.F.
3	Extra Depth Manhole (Less than 10')	9	Ea.
4	Extra Depth Manhole (10' to 15')	6	Ea.
5	Extra Depth Manhole (Greater than 15')	8	Ea.
6	General Conditions Profit and Misc.	1	Ea.
Storm Sewer			
Item No.	Item	Estimated Quantity	Unit
1	Demo, Clearing and Grubbing	1	L.S.
2	Excavation	7,629	C.Y.
3	Embankment	7,629	C.Y.
4	Seeding	1	L.S.
5	5'x3' Curb Inlet	1	Ea.
6	5'X4' Curb Inlet	14	Ea.
7	5'x5' Curb Inlet	2	Ea.
8	6'x4' Curb Inlet	1	Ea.
9	4'x4'Junction Box	1	Ea.
10	Landscape drain	1	Ea.
11	18" RCP	461	L.F.
12	24" RCP	698	L.F.
13	30" RCP	374	L.F.
14	15" HDPE	180	L.F.
15	18" Corrugated HDPE	70	L.F.
16	15" HDPE End Section	1	Ea.
17	30" RCP End Section	2	Ea.
18	General Conditions Profit and Misc.	1	Ea.
Paving			
Item No.	Item	Estimated Quantity	Unit
1	2' Curb & Gutter (CG-1)	6,796	L.F.
2	2" Asphaltic cement concrete surface	11,521	S.Y.
3	7.5" Asphaltic cement concrete base	11,521	S.Y.
4	6" MoDOT Type 5 Base	14,075	S.Y.
5	8" Concrete Entrance	1,855	S.Y.
6	4" Aggregate (Driveway)	137	S.Y.
7	Handicap Ramp	11	Ea.
8	8" Concrete Patch	15	S.Y.
9	Pavement Removal	1	L.S.
10	Concrete Sidewalk	1,830	S.Y.
11	Mult-use trail	1,280	S.Y.
12	Wood Fence Replacement	78	L.F.
13	Modular Block Retaining Wall	128	L.F.
14	General Conditions Profit and Misc.	1	Ea.
Water Main			
Item No.	Item	Estimated Quantity	Unit
1	Connect to Existing Water Main	4	Ea.
2	6" Fire Line Main	208	L.F.
3	6" Water Main	41	L.F.
4	8" Water Main	452	L.F.
5	12" Water Main	1,808	L.F.
6	1" Copper Water Service Line	164	L.F.
7	Fire Hydrant with 6" Valve	4	Ea.
8	Temporary Fire Hydrant with 8" Valve	4	Ea.
9	6" Gate Valve	1	Ea.
10	8" Gate Valve	4	Ea.
11	12" Gate Valve	2	Ea.
12	8" Butterfly Valve	1	Ea.
13	12" Butterfly Valve	3	Ea.
14	12"x8"x8" Tee	2	Ea.
15	12"x12"x8" Tee	2	Ea.
16	12"x12"x6" Tee	2	Ea.
17	Air Release Valve	1	Ea.
18	General Conditions Profit and Misc.	1	Ea.

LEGEND

	SECTION CORNER, ORIGIN UNKNOWN UNLESS OTHERWISE NOTED		TELEPHONE SIGN
	MONUMENT FOUND, ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED		TELEPHONE MANHOLE
(D)	DESCRIBED		TELEPHONE PEDESTAL
(M)	MEASURED		UNDERGROUND TELEPHONE LINE
(C)	CALCULATED		SPLICE BOX
(P)	PLATTED		FIBER OPTIC CABLE SIGN
	STREET SIGN		UNDERGROUND FIBER OPTIC CABLE
	UTILITY POLE		TRAFFIC CONTROL POLE
	UTILITY POLE W/ LIGHT		PULL BOX
	UTILITY POLE W/TRANSFORMER		FLAG POLE
	LIGHT POLE		MAILBOX
	DEADMAN ANCHOR		HANDICAP SIGN
(5) 	OVERHEAD UTILITY - # LINES		HANDICAP PAINTED SYMBOL
	AIR CONDITIONING UNIT		LEFT TURN ARROW
	ELECTRIC PEDESTAL		STRAIGHT ARROW
	ELECTRIC METER		RIGHT TURN ARROW
	UNDERGROUND ELECTRIC LINE		GATE POST
	UTILITY MANHOLE		FENCE POST
	CABLE TV SIGN		WOOD FENCE
	CABLE TV PEDESTAL		CHAIN LINK FENCE
	GAS SIGN		BARBED WIRE FENCE
	GAS METER		18" DECIDUOUS TREE W/SIZE & DRIP LINE
	UNDERGROUND GAS LINE		22" EVERGREEN TREE W/SIZE & DRIP LINE
	GAS CATHODIC PROTECTION STATION		SAPLING TREE
	WATER LINE		SHRUB
	WATER LINE GATE VALVE		STUMP
	WATER SPIGOT		TREE LINE
	WATER METER		SHRUB LINE
	WELL		10 PARKING STALL COUNT
	FIRE HYDRANT		970 1' CONTOUR INTERVAL
	SANITARY SEWER MANHOLE		RESTRICTED ACCESS
	SANITARY SEWER LINE		B/B BACK OF CURB TO BACK OF CURB
			E/E EDGE TO EDGE

2319 N. JACKSON P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 PH. (785) 762-5040 FAX. (785) 762-7744 jckveng.com www.kveng.com		STATE OF MISSOURI LEON D. OSBOURN ENGINEER MO # 021726		37-25-19 7-5-19 5-16-19 01-11-19		REVISED PER CITY COMMENT REVISED PER CITY COMMENTS REVISED PER CITY COMMENTS INITIAL ISSUE		LD0 LD0 LD0 LD0		BKR JT JT JT	
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REV	DATE	DESCRIPTION	DSN	CHK
3	7-25-19	REVISED PER CITY COMMENT	LDO	BKR
2	7-5-19	REVISED PER CITY COMMENT	LDO	JT
1	5-18-19	REVISED PER CITY COMMENT	LDO	JT
0	01-11-19	INITIAL ISSUE	LDO	JT

STATE OF MISSOURI
LEON D. OSBOURN
ENGINEER
NUMBER
7-25-19
E-21726
REGISTERED PROFESSIONAL ENGINEER

LEON D. OSBOURN
ENGINEER
MO # 021726

2319 N. JACKSON | P.O. BOX 304
JUNCTION CITY, KANSAS 66441
PH. (785) 762-5040 | FAX (785) 762-7744
joe@kve.com | www.kve.com

KAW VALLEY ENGINEERING

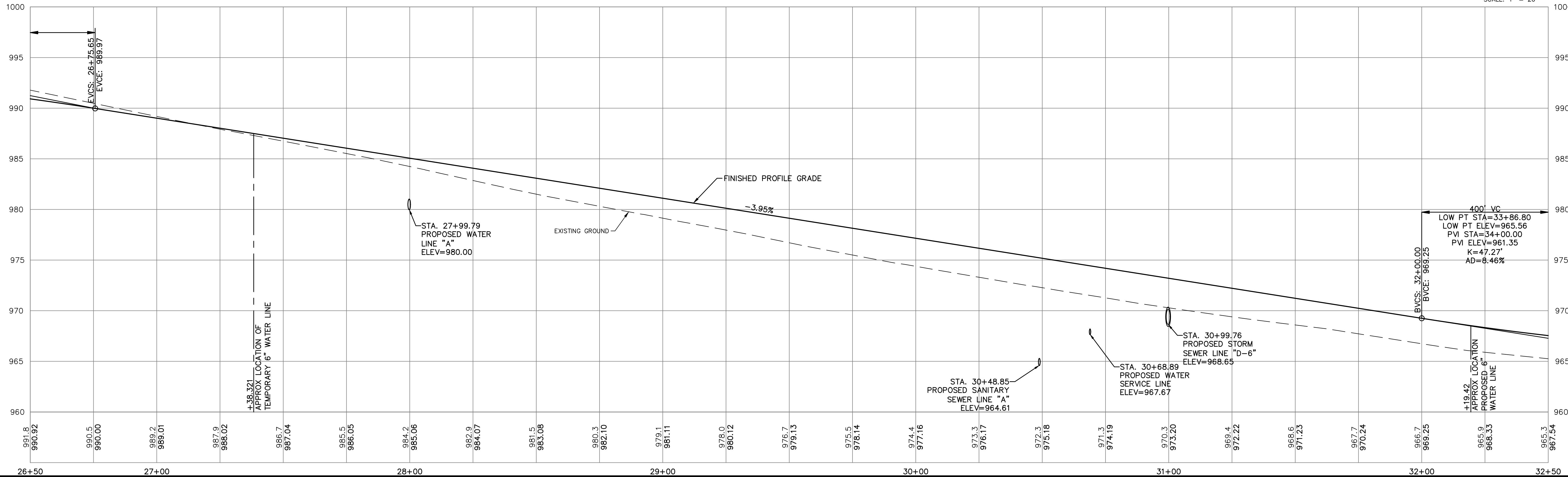
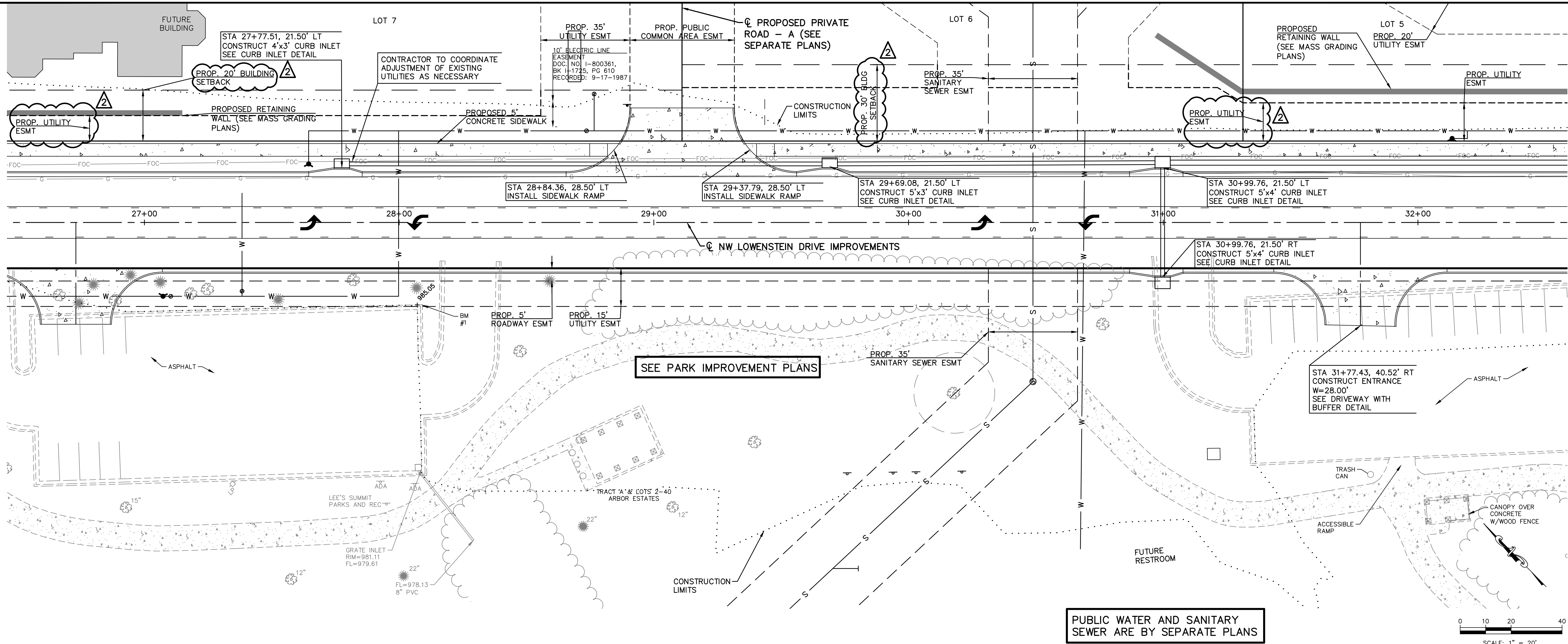
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING
MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842.
EXPIRES 12/31/19

STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

PUBLIC STREET PLANS
GENERAL LAYOUT SHEET

PROJ. NO.	A14-7067-1
DESIGNER	LDO
DRAWN BY	JT/BKR
CFN	7067-1PI-GLS
SHEET	3
REV	3





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0	01-11-19	INITIAL ISSUE	LDO	JT

LEON D. OSBOURN
ENGINEER
MO # 021726

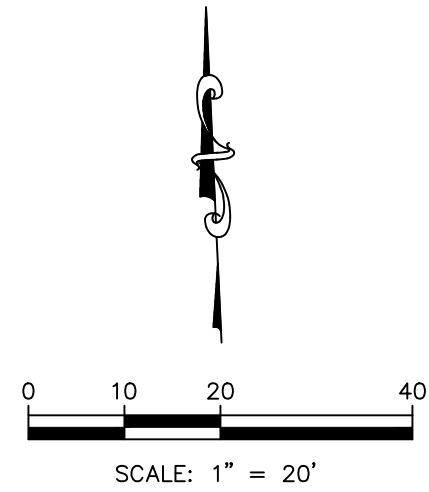
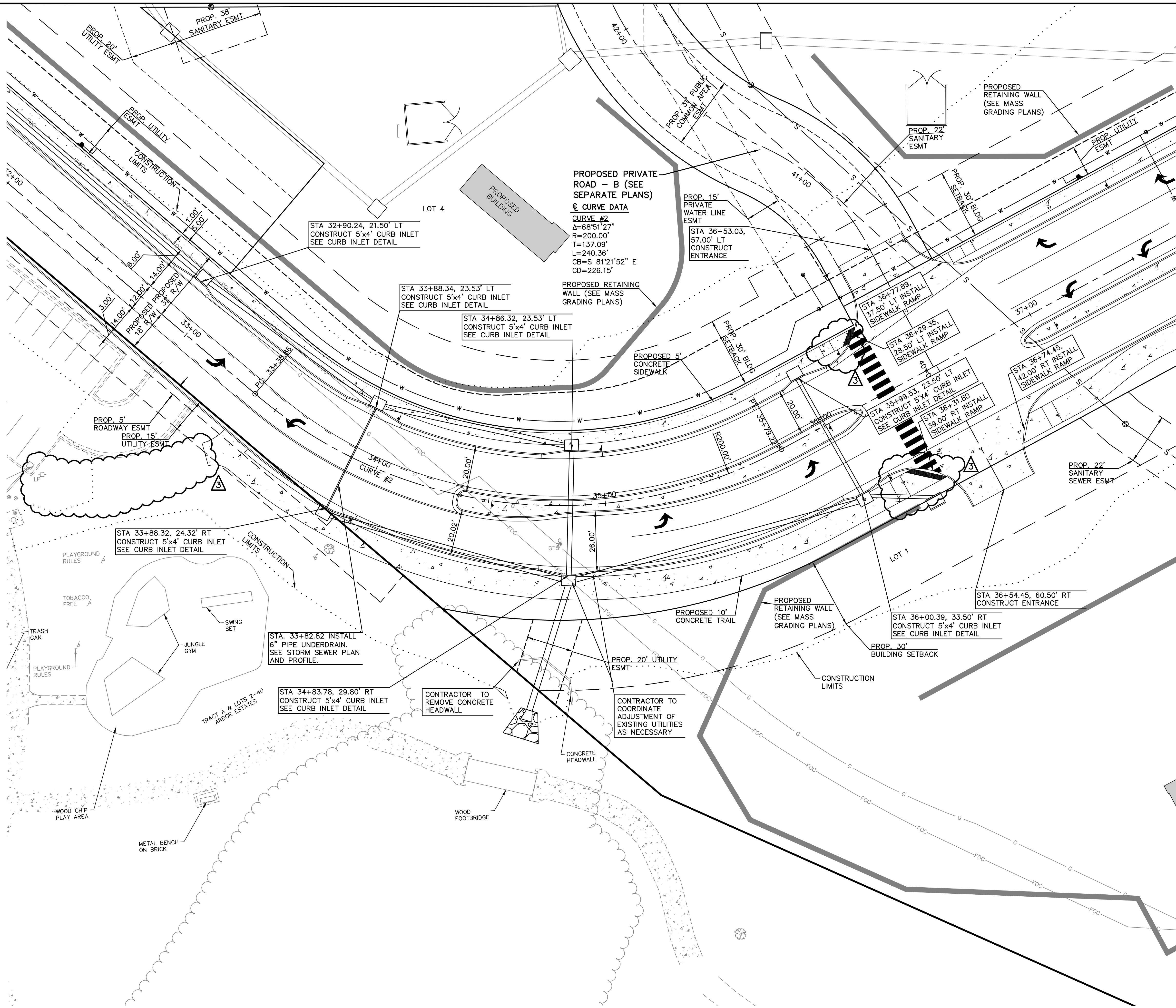
2319 N. JACKSON | P.O. BOX 1304
JUNCTION CITY, KANSAS 66441
PH. (785) 762-5040 | FAX (785) 762-7744
joe@kveeng.com | www.kveeng.com

KAW VALLEY ENGINEERING
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES IN THE STATE OF MISSOURI
EXPIRES 12/31/19

STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

PUBLIC STREET PLANS
NW LOWENSTEIN DRIVE - PLAN & PROFILE

PROJ. NO.	A14-7067-1
DESIGNER	LDO
CFN	JT/BKR
SHEET	6
REV	2



PUBLIC WATER AND SANITARY
SEWER ARE BY SEPARATE PLANS

PROJ. NO.	A14_7067-1	
DESIGNER	LDO	DRAWN BY JT/BKR
CFN	7067-1PI_STPP	
SHEET	7	3

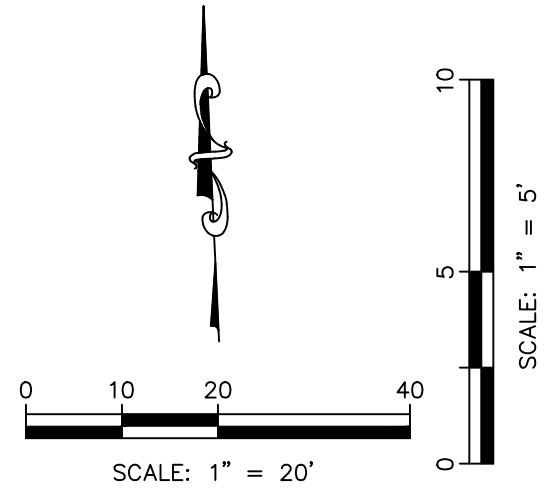
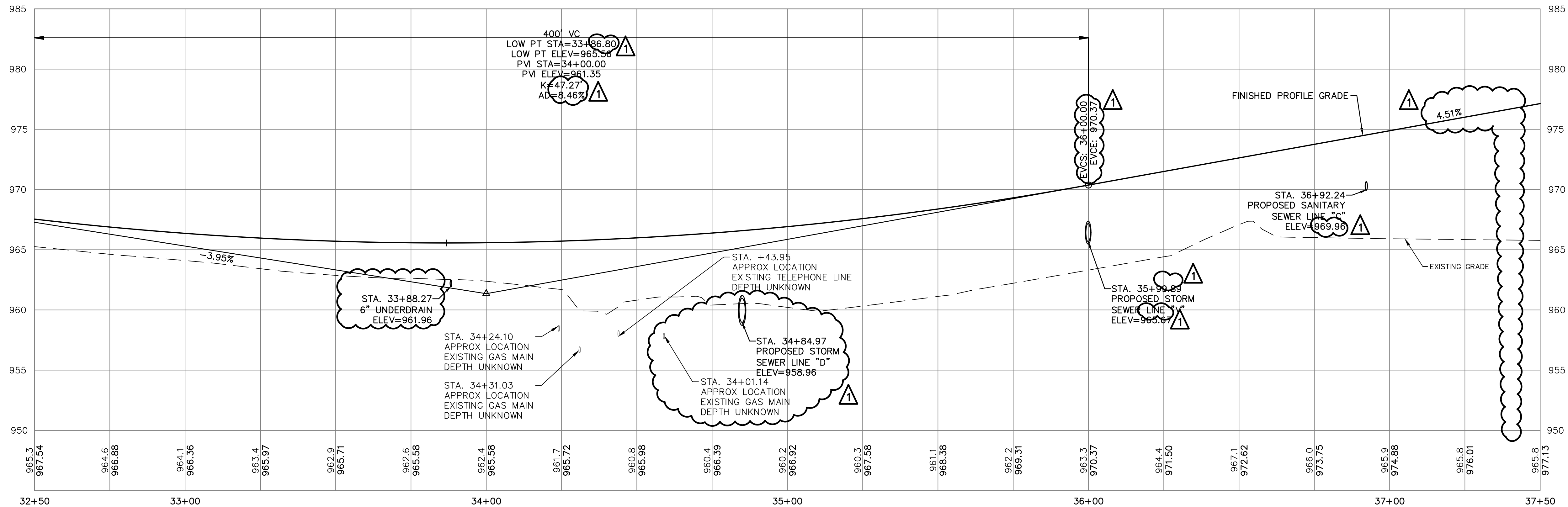
REV	DATE	DESCRIPTION	CHK
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0	01-11-19	INITIAL ISSUE	LDO
			DSN
			DWN
			CHK

LEON D. OSBOURN
ENGINEER
MO # 021726

KAW VALLEY ENGINEERING
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2319 N. JACKSON | P.O. BOX 1304
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PH. (785) 762-5040 | FAX (785) 762-7744
joe@kveeng.com | www.kveeng.com

STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

PUBLIC STREET PLANS
NW LOWENSTEIN DRIVE - PLAN



1

PUBLIC WATER AND SANITARY SEWER ARE BY SEPARATE PLANS



LEON D. OSBOURN
ENGINEER
MO # 021726

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KAW VALLEY ENGINEERING

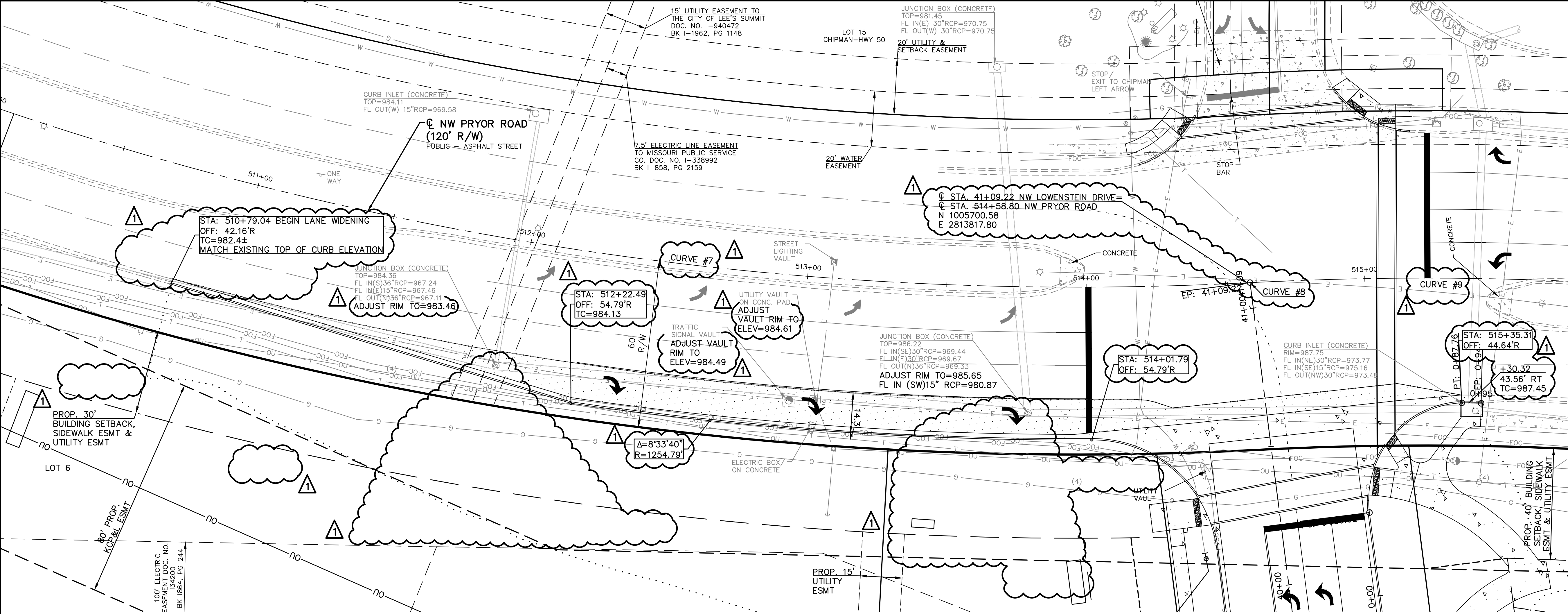
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES IN THE STATE OF MISSOURI UNDER THE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19

STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

PUBLIC STREET PLANS
NW LOWENSTEIN DRIVE - PROFILE

PROJ. NO. A14-7067-1	
DESIGNER LDO	DRAWN BY JT/BKR
CFN 7067-1PI-STPP	
SHEET 8	REV 1

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

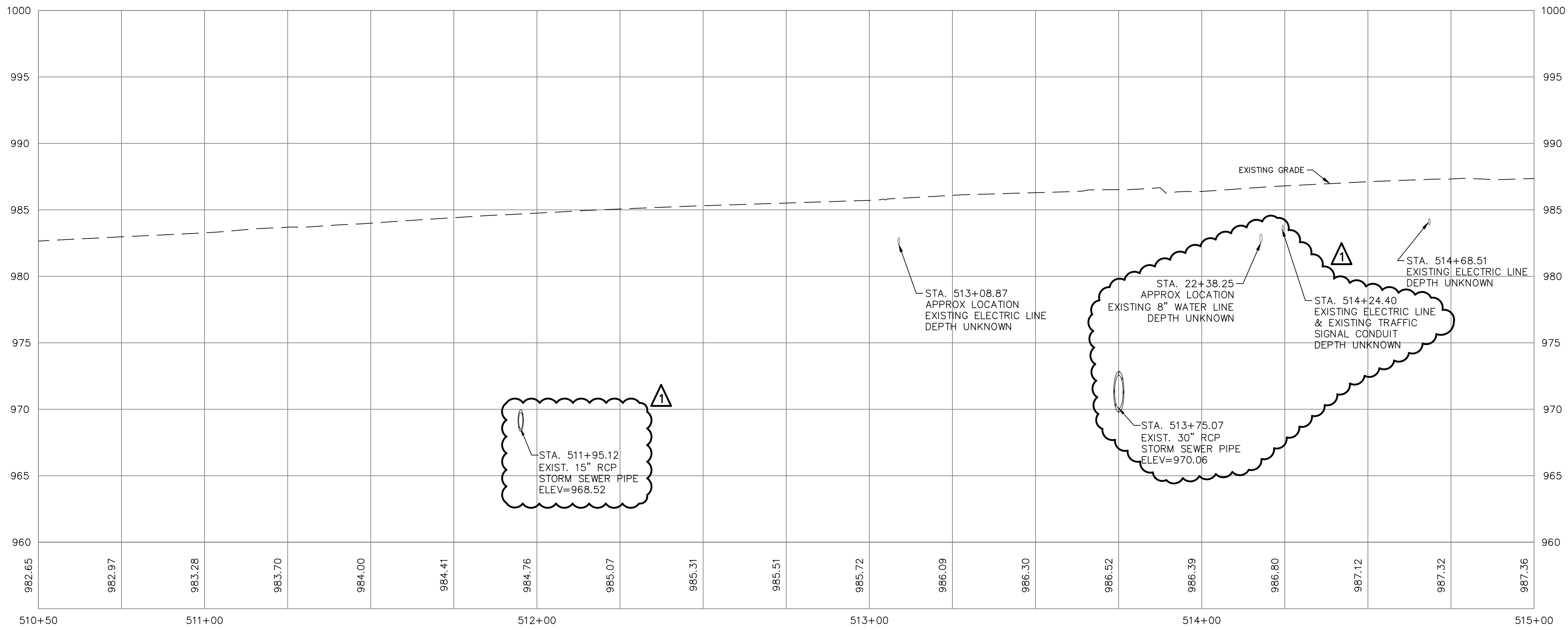


☼ CURVE DATA

CURVE #7
POC STA. 510+08.63
N 1006140.33 E 2813734.70
POC STA. 514+58.80 NW PRYOR ROAD =
☼ STA. 41+09.22 NW LOWENSTEIN DRIVE
N 1005700.58 E 2813817.80
Δ=21°29'39"
R=1200.00'
T=227.76'
L=450.17'
CB=S 10°42'05" E
CD=447.54'

CURVE #8
POC STA. 514+58.80 NW PRYOR ROAD =
☼ STA. 41+09.22 NW LOWENSTEIN DRIVE
N 1005700.58 E 2813817.80
PRC STA 514+59.00
N 1005700.40 E 2813817.87
Δ=00°00'34"
R=1200.00'
T=0.10'
L=0.20'
CB=S 21°27'11" E
CD=0.20'

CURVE #9
PRC STA. 514+59.00
N 1005700.40 E 2813817.87
PC STA. 519+70.05
N 1005199.81 E 2813899.46
Δ=24°24'04"
R=1200.00'
T=259.46'
L=511.05'
CB=S 09°15'26" E
CD=507.20'



ADDED ESMTS

PUBLIC WATER AND SANITARY SEWER ARE BY SEPARATE PLANS

PROJ. NO.	A14-7067-1
DESIGNER	LDO
CFN	JT/BKR
SHEET	7067-1PI-STPP
10	1

STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

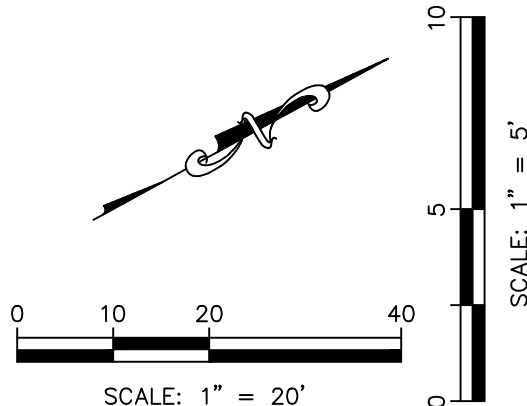
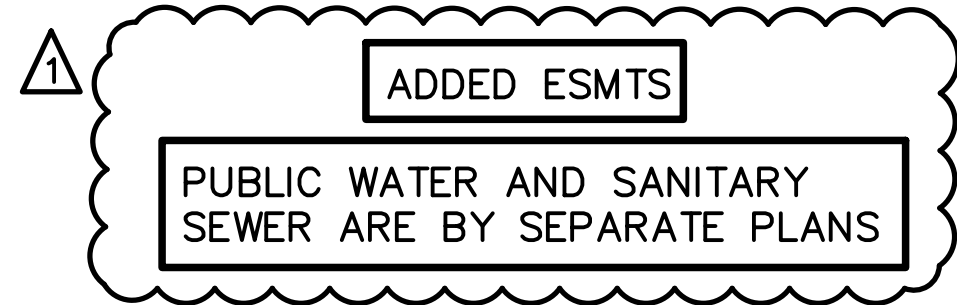
PUBLIC STREET PLANS
NW PRYOR RD WIDENING AT NW LOWENSTEIN DR

KAW VALLEY ENGINEERING
2319 N. JACKSON | P.O. BOX 1304
JUNCTION CITY, KANSAS 66441
PH. (785) 762-5040 | FAX (785) 762-7744
joe@kveg.com | www.kveg.com
LEON D. OSBOURN
ENGINEER
MO # 021726
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES IN THE STATE OF MISSOURI
EXPIRES 12/31/19

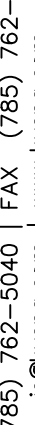
STATE OF MISSOURI
LEON D. OSBOURN
REGISTERED PROFESSIONAL ENGINEER
E-21726

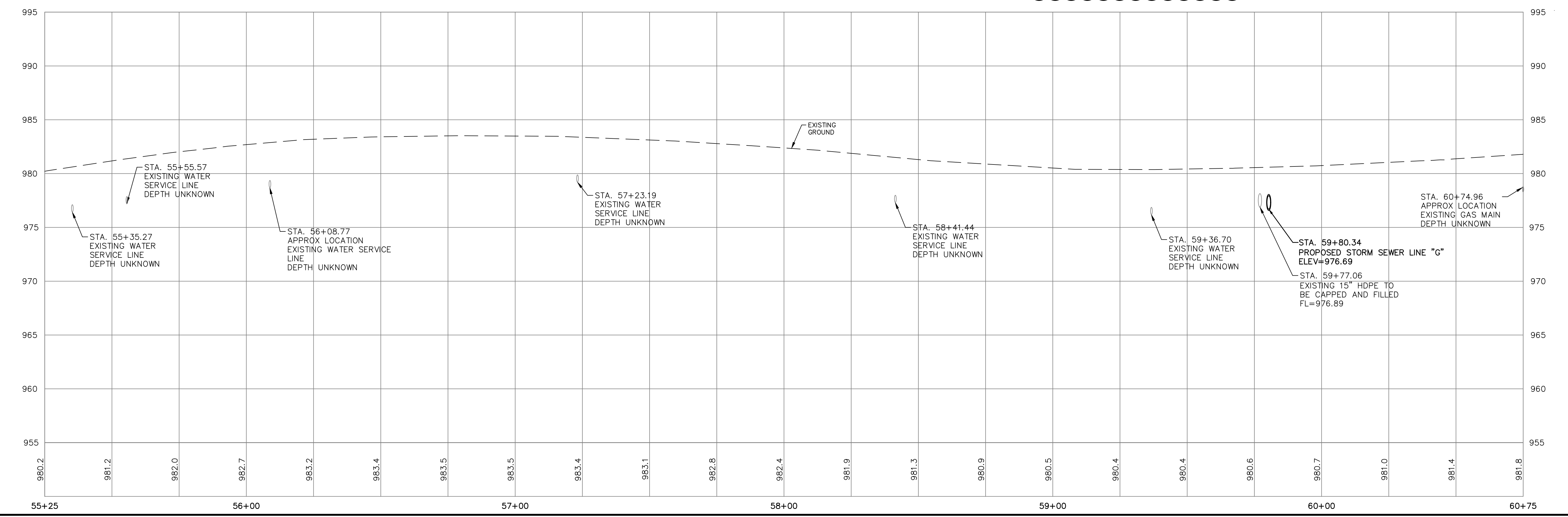
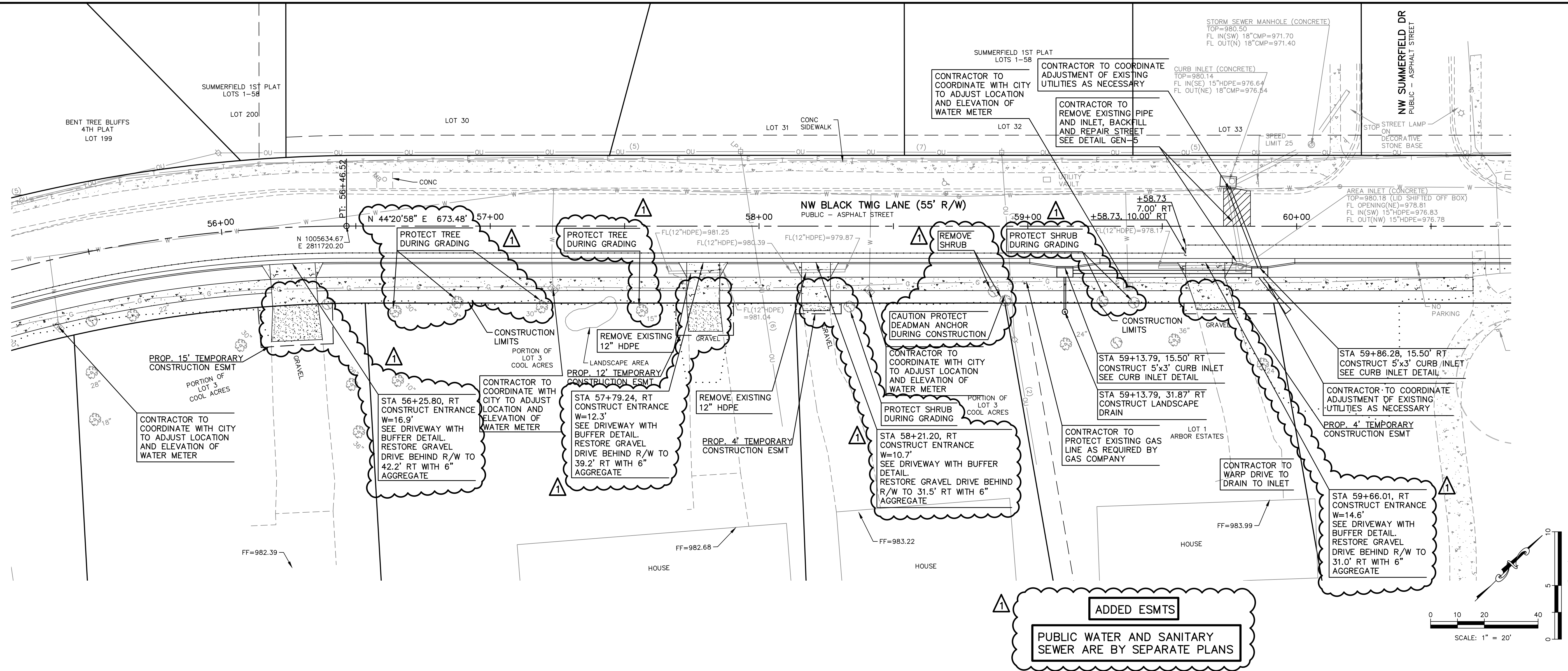
REV	DATE	DESCRIPTION
1	5-18-19	REVISED PER CITY COMMENTS
0	01-11-19	INITIAL ISSUE

LDO	JT	LDO
DSN	DWN	CHK



THIS DRAWING SHALL NOT BE UTILIZED BY ANY PERSON, FIRM, OR CORPORATION IN WHOLE OR IN PART WITHOUT THE SPECIFIC PERMISSION OF KAW VALLEY ENGINEERING, INC.

STREETS OF WEST PRYOR NWQ NW PRYOR RD & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI		PUBLIC STREET PLANS NW BLACK TWIG LANE - PLAN & PROFILE					
PROJ. NO. A14-7067-1							
DESIGNER LDO		DRAWN BY JT/BKR					
CFN		SHEET 11					
7067-IPI		STPP					
SHEET		REV					
11		1					
 KAW VALLEY ENGINEERING KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000942. EXPIRES 12/31/19 2319 N. JACKSON P.O. BOX 1304 JACKSON, MO 64301-0304 PH. (785) 702-5040 FAX (785) 762-7744 jcd@kveg.com www.kveg.com		 LEON D. OSBOURN ENGINEER MO # 021726		1 5-16-19 REVISED PER CITY COMMENTS 0 01-11-19 INITIAL ISSUE REV DATE DESCRIPTION		DWN CHK	



REV	DATE	DESCRIPTION
1	5-18-19	REVISED PER CITY COMMENTS
0	01-11-19	INITIAL ISSUE

REV	DATE	DESCRIPTION
1	5-18-19	REVISED PER CITY COMMENTS
0	01-11-19	INITIAL ISSUE

STATE OF MISSOURI
LEON D. OSBOURN
ENGINEER
E-21726

2319 N. JACKSON | P.O. BOX 1304
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joe@kve.com | www.kve.com

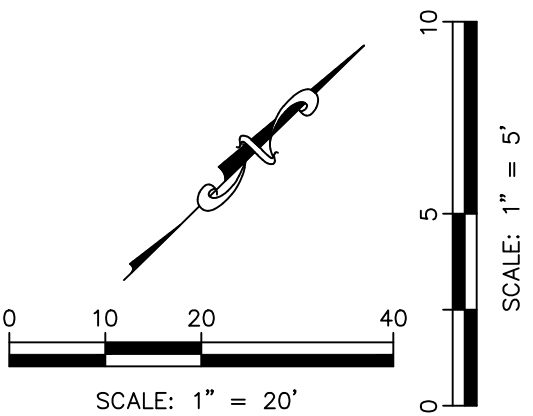
KAW VALLEY ENGINEERING
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES IN THE STATE OF MISSOURI. CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19.

STREETS OF WEST PRYOR
NW & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

PUBLIC STREET PLANS
NW BLACK TWIG LANE - PLAN & PROFILE

PROJ. NO.	DESIGNER	DRAWN BY
A14-7067-1	LDO	JT/BKR

SHEET	REV
12	1



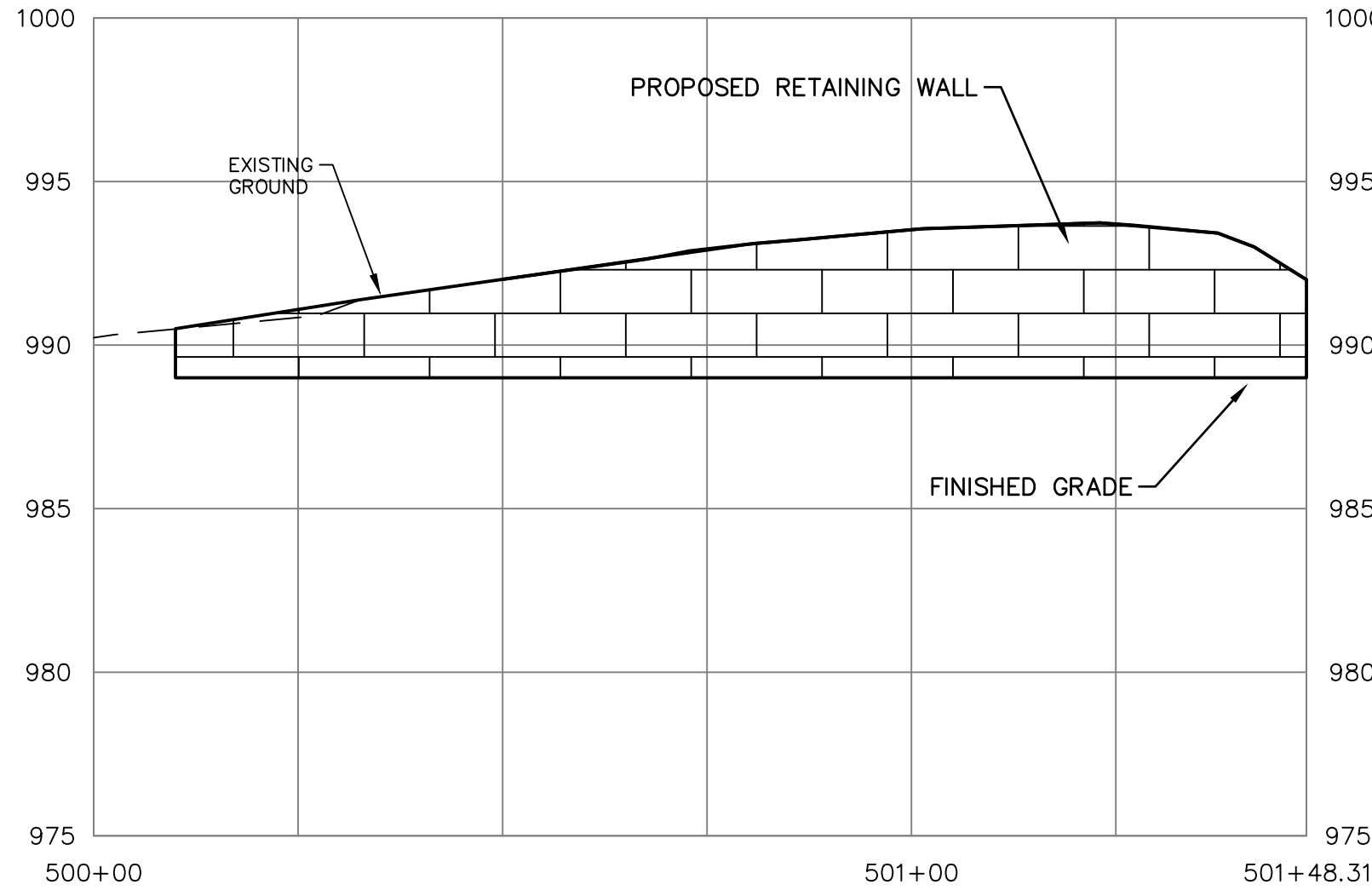
2319 N. JACKSON | P.O. BOX 1304
JUNCTION CITY, KANSAS 66441
PH. (785) 762-5040 | FAX (785) 762-7744
jc@kvereng.com | www.kvereng.com

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842.

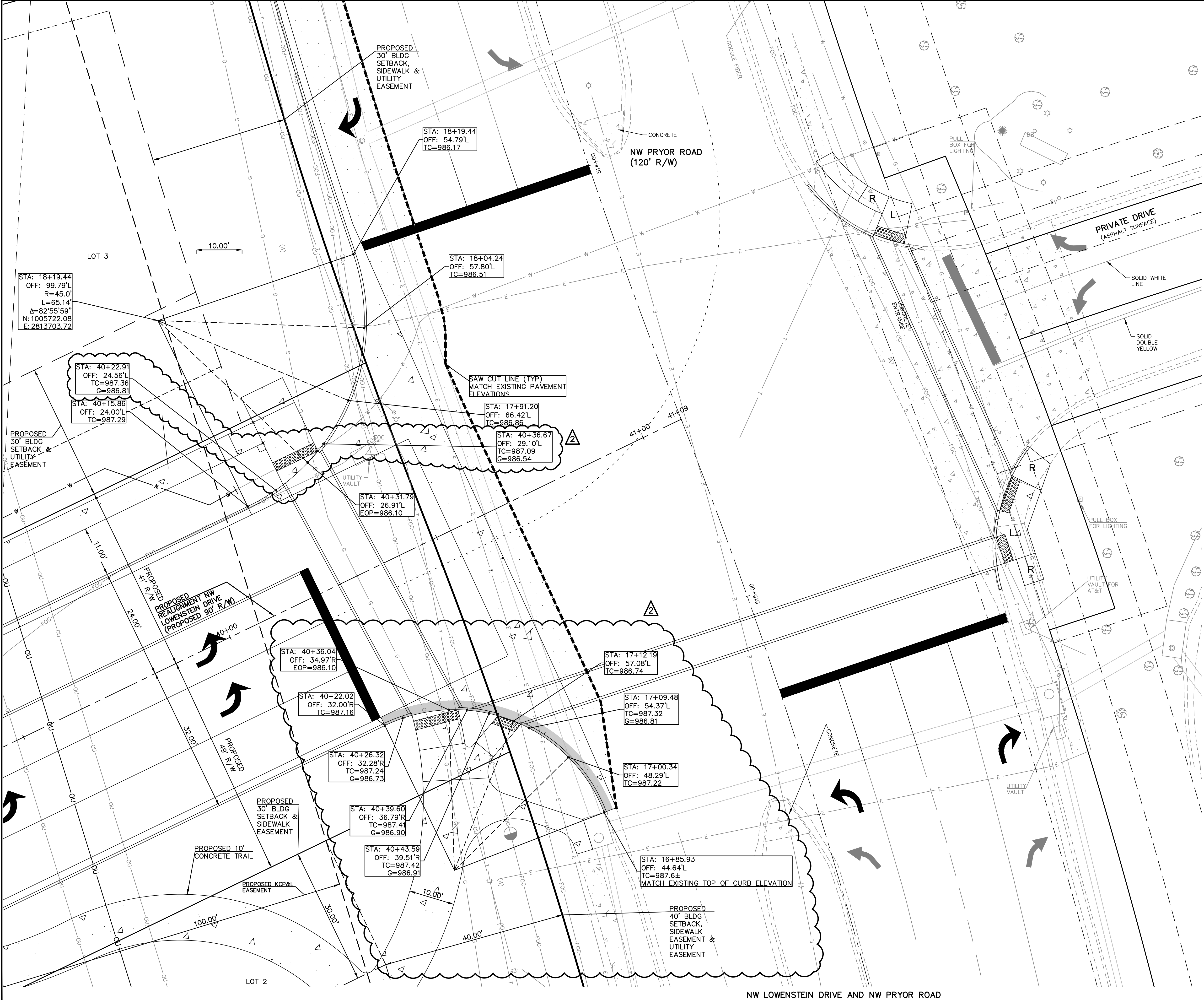
PUBLIC STREET PLANS

PUBLIC STREET PLANS

PROJ. NO.		A14_7067-	
DESIGNER	LDO	DRAWN BY	JT/BK
CFN		7067-1PI_STP	
SHEET		REVISION	
13		3	



PROPOSED RETAINING WALL "A"



PUBLIC WATER AND SANITARY
SEWER ARE BY SEPARATE PLANS

STATE OF MISSOURI
LEON D. OSBOURN
ENGINEER
NO. 021726

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KAW VALLEY ENGINEERING
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SERVICES IN THE STATE OF MISSOURI. CERTIFICATE OF AUTHORITY # 000842.
EXPIRES 12/31/19

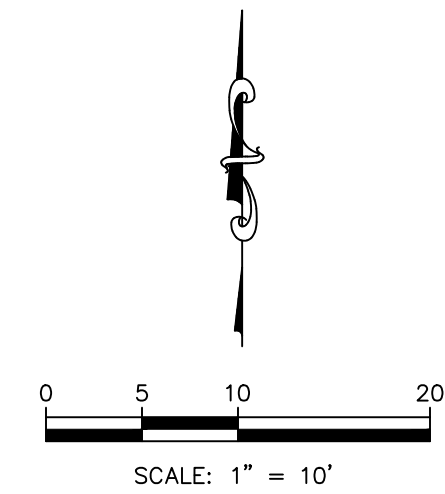
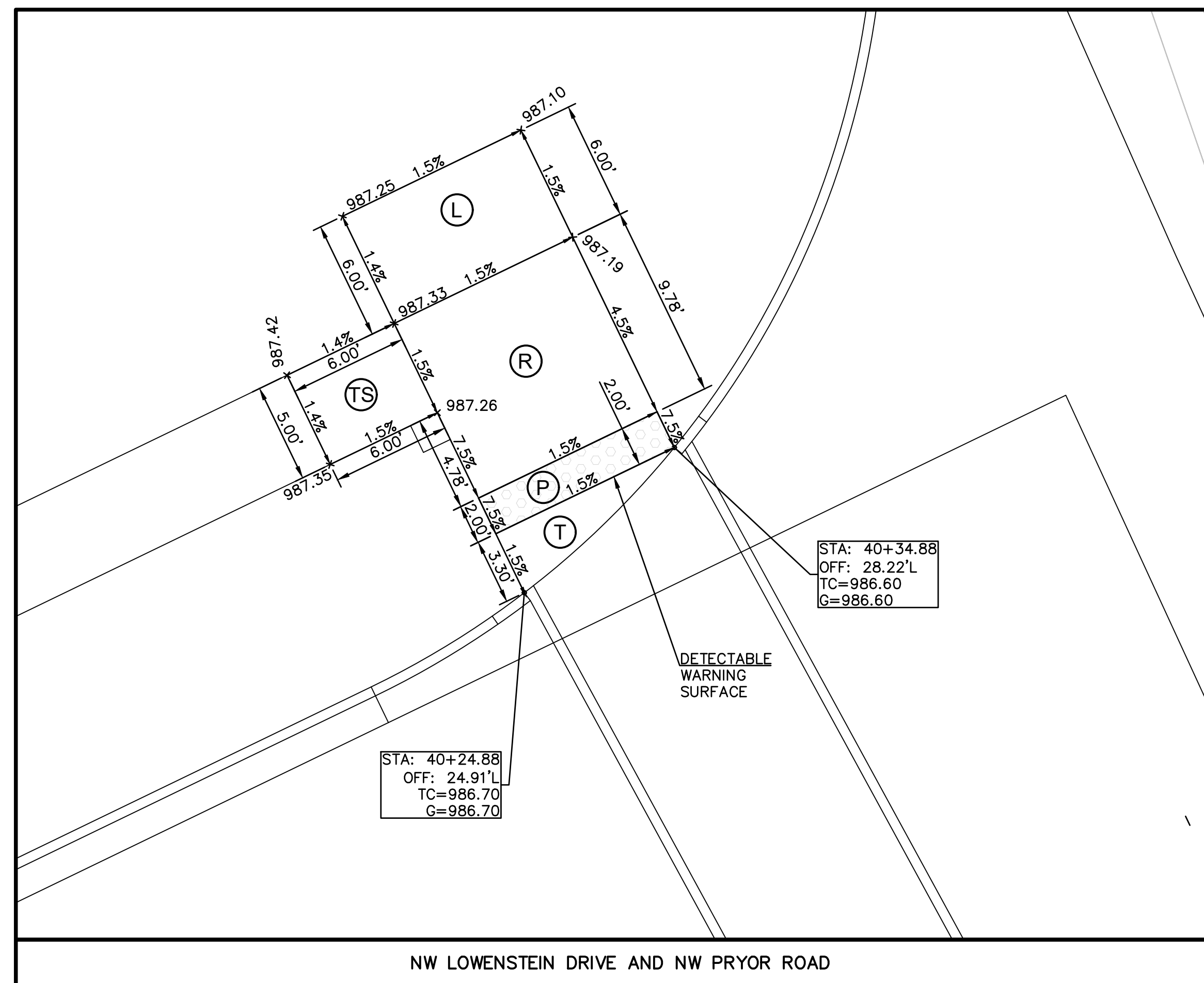
REV	DATE	DESCRIPTION
2	7-25-19	REVISED PER CITY COMMENT
1	7-5-19	REVISED PER CITY COMMENT
0	5-16-19	INITIAL ISSUE

STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

PUBLIC STREET PLANS
GEOMETRIC LAYOUT - INTERSECTION AND SIDEWALK

PROJ. NO.	DESIGNER	DRAWN BY
A14-7067-1	LDO	JT/BKR

SHEET	REV
13A	2



LEGEND	
	DRY CURB
TC	TOP OF CURB ELEVATION
G	GUTTER ELEVATION
	RAMP (7.5% RUNNING SLOPE, 1.5% MAXIMUM CROSS SLOPE)
	LANDING (1.5% MAX IN ALL DIRECTIONS)
	TURNING SPACE (1.5% MAX IN ALL DIRECTIONS)
	PAN
	TRANSITION

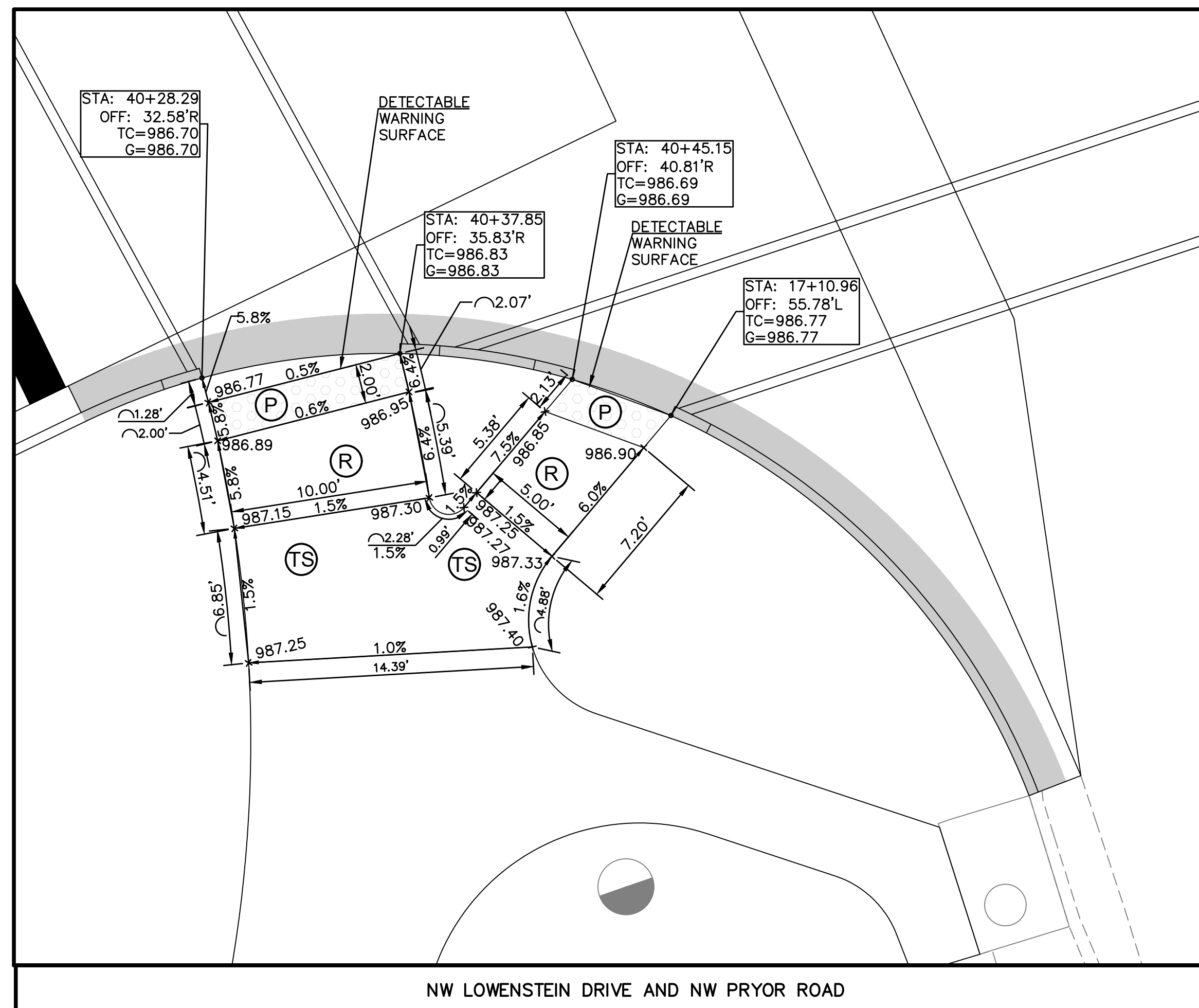
CONSTRUCTION NOTES:

1. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH LEE'S SUMMIT STANDARD DETAIL GEN-3A. CONSTRUCTION SHALL COMPLY WITH GENERAL NOTES.

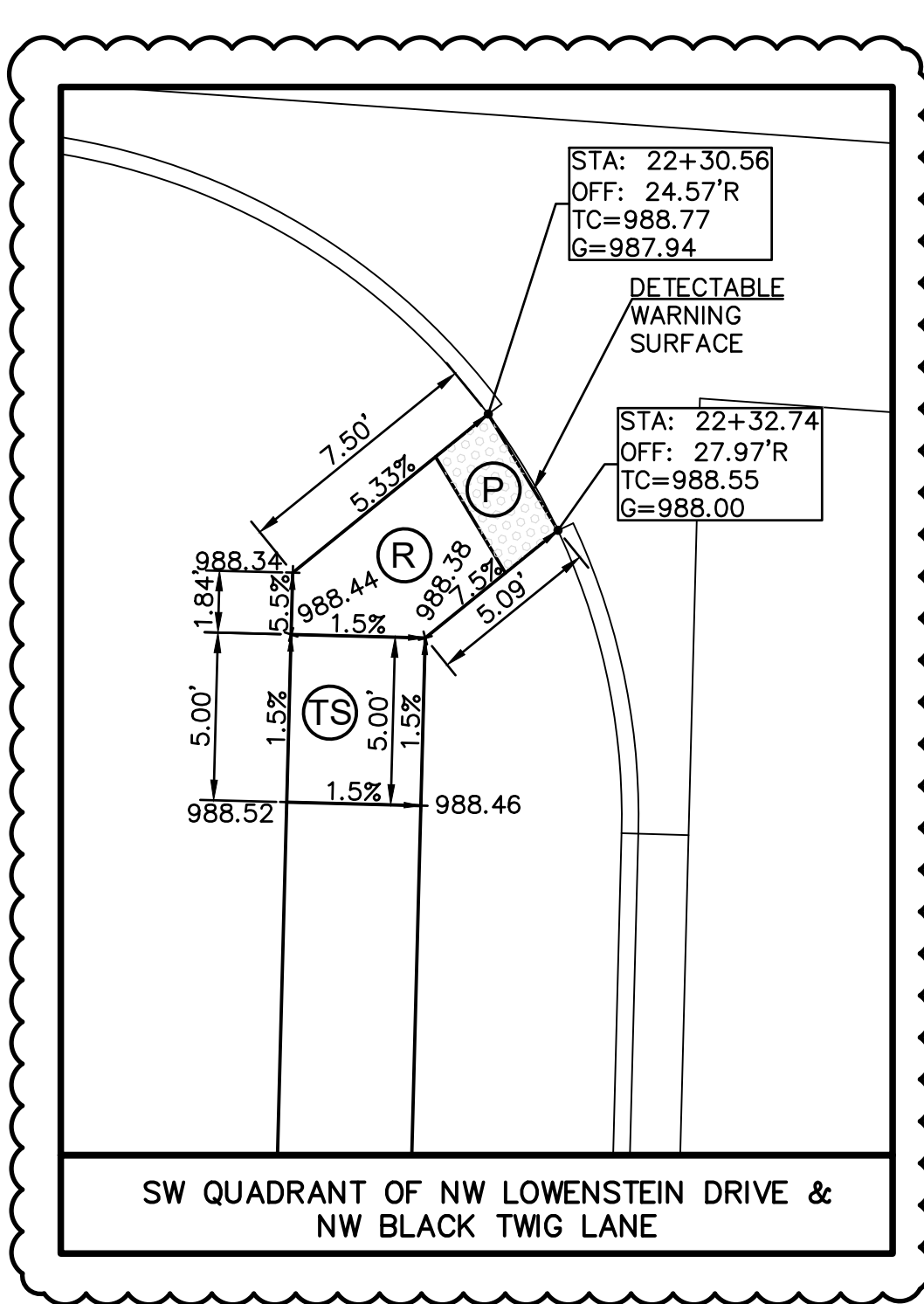


Know what's **below**.
Call before you dig.

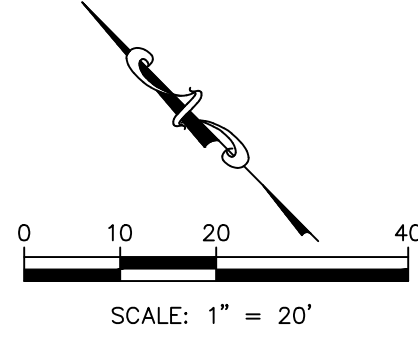
PUBLIC WATER AND SANITARY
SEWER ARE BY SEPARATE PLANS



STREETS OF WEST PRYOR											
NWQ NW PRYOR RD & NW LOWENSTEIN DR											
LEE'S SUMMIT, MISSOURI											
PUBLIC STREET PLANS											
ADA RAMPS											
PROJ. NO.											
A14_7067-1											
DESIGNER						DRAWN BY					
LDO						JT/BKR					
CFN											
SHEET						REV					
13A1						1					



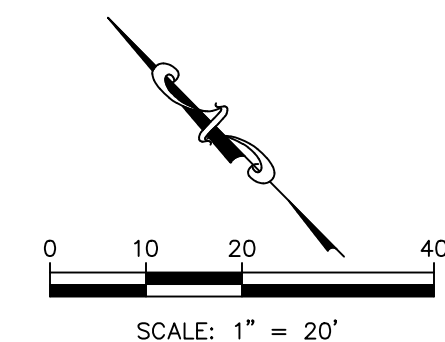
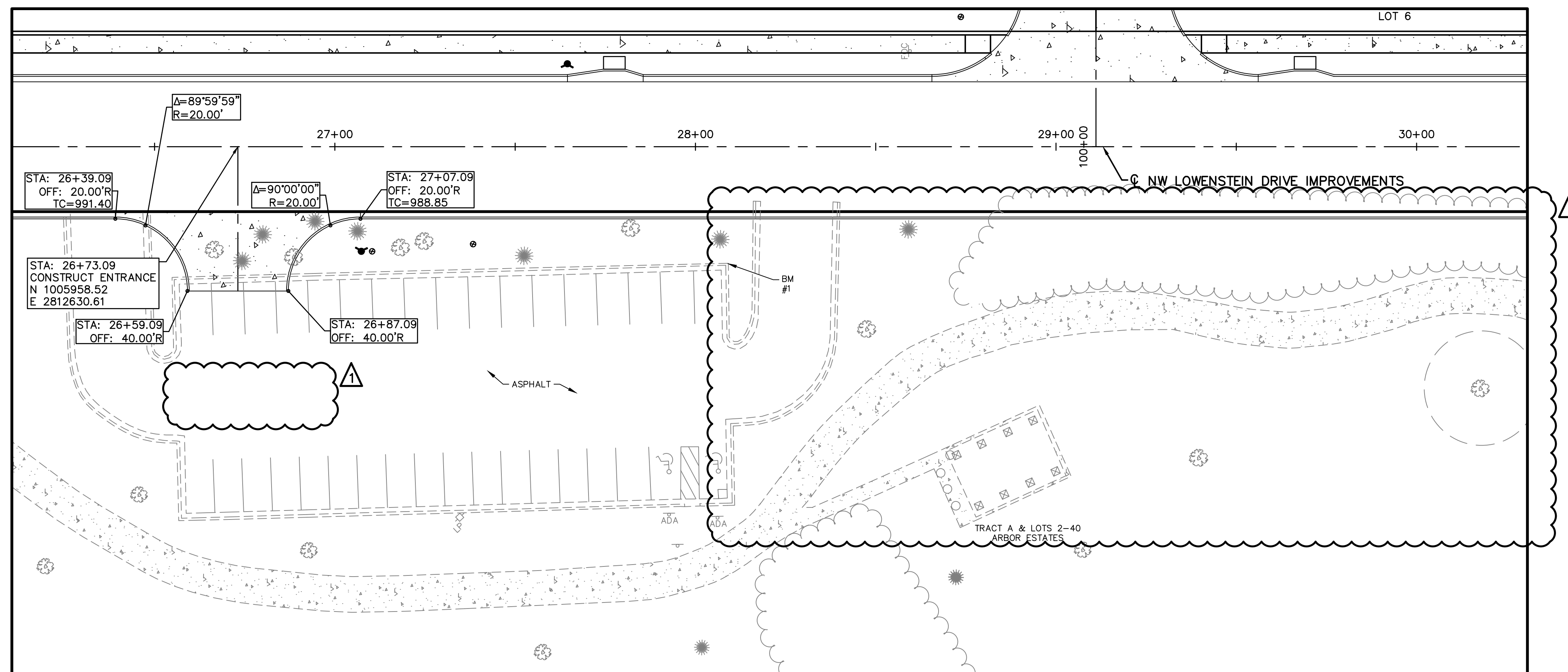
Know what's **below**.
Call before you dig.



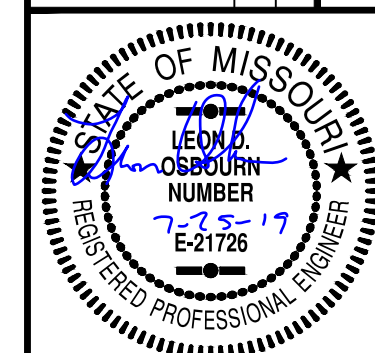
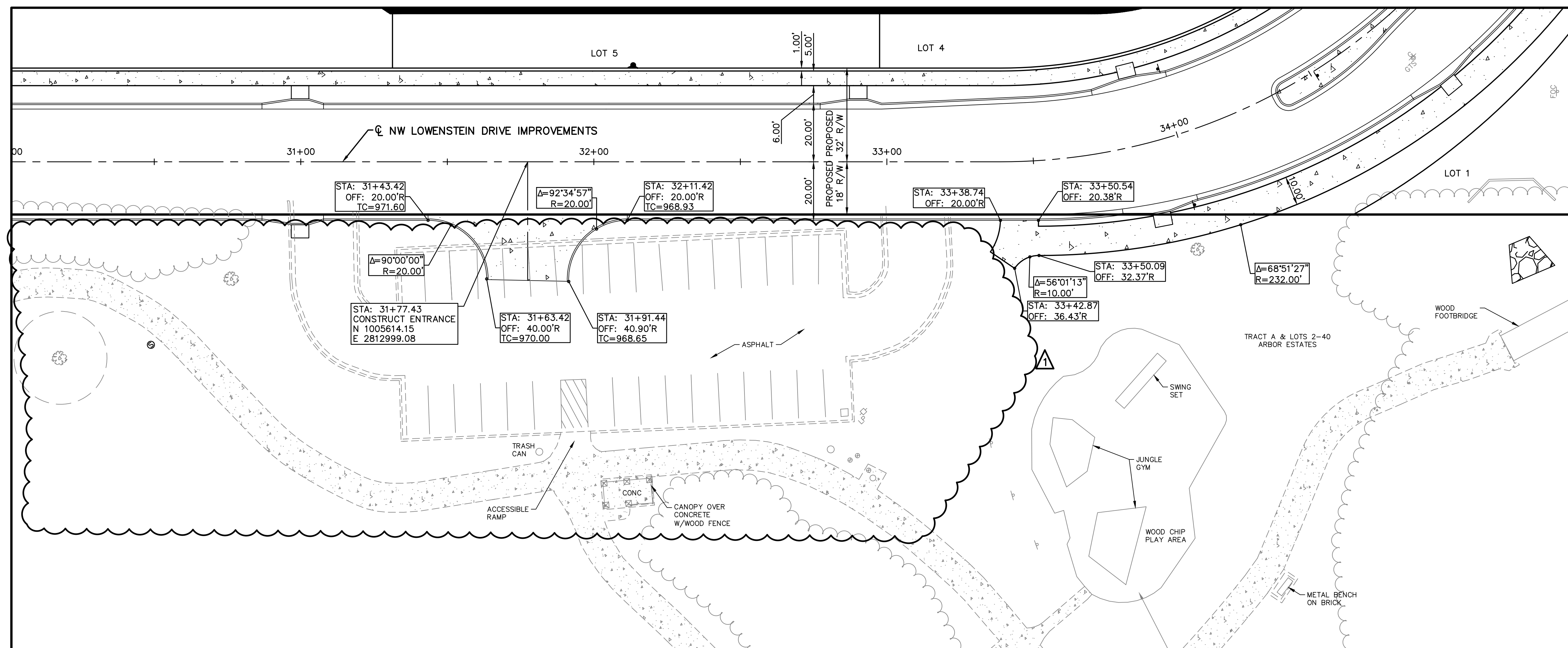
PUBLIC WATER AND SANITARY
SEWER ARE BY SEPARATE PLANS

CONSTRUCTION NOTES:
1. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH LEE'S SUMMIT STANDARD DETAIL GEN-3A. CONSTRUCTION SHALL COMPLY WITH GENERAL NOTES.

STREETS OF WEST PRYOR NWQ NW PRYOR RD & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI		PUBLIC STREET PLANS GEOMETRIC LAYOUT - INTERSECTION, SIDEWALK AND ADA RAMPS	
PROJ. NO. A14 7067-1		DRAWN BY JT/BKR	
DESIGNER LDO		CHECKED JT/BKR	
CFN 7067-1PI		INT2	
SHEET 13B		REV	

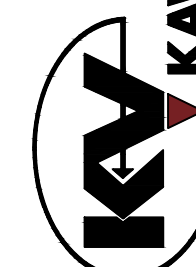


PUBLIC WATER AND SANITARY
SEWER ARE BY SEPARATE PLANS



LEON D. OSBOURN
ENGINEER
MO # 021726

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JUNCTION CITY, KANSAS 66441
PH. (785) 762-5040 | FAX (785) 762-7744
jc@kveng.com | www.kveng.com



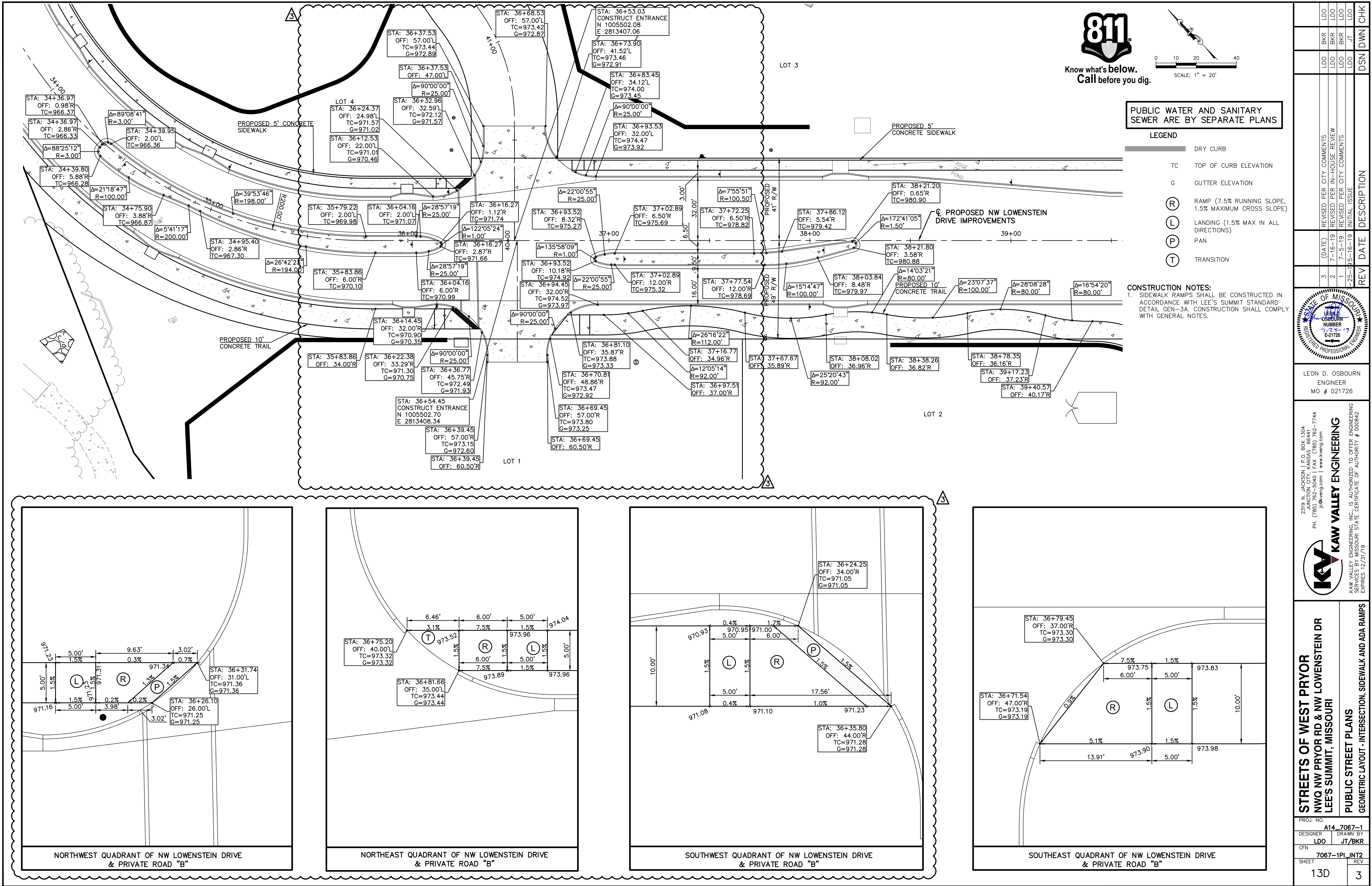
KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842.

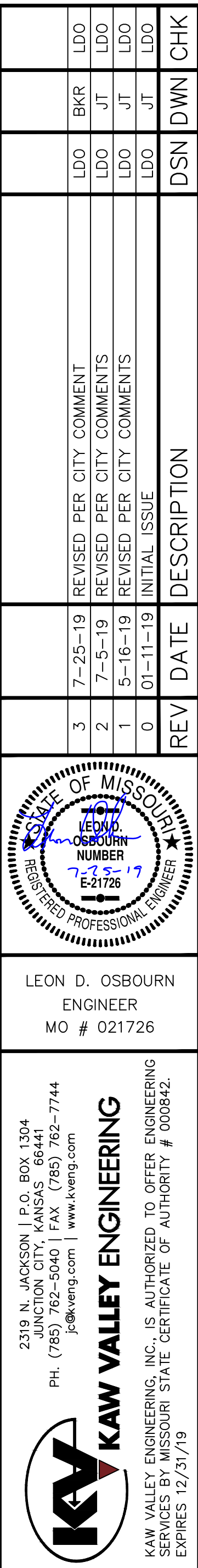
STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

PUBLIC STREET PLANS

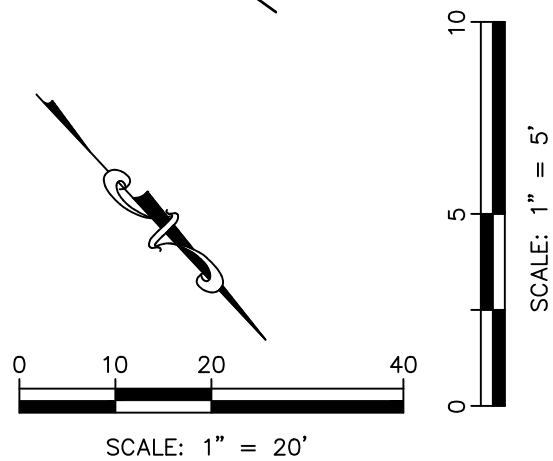
PUBLIC STREET PLANS

PROJ. NO.	
A14_7067-1	
DESIGNER	DRAWN BY
LDO	JT/BKF
CFN	
7067-1PI_INT2	
SHEET	REV
13C	1

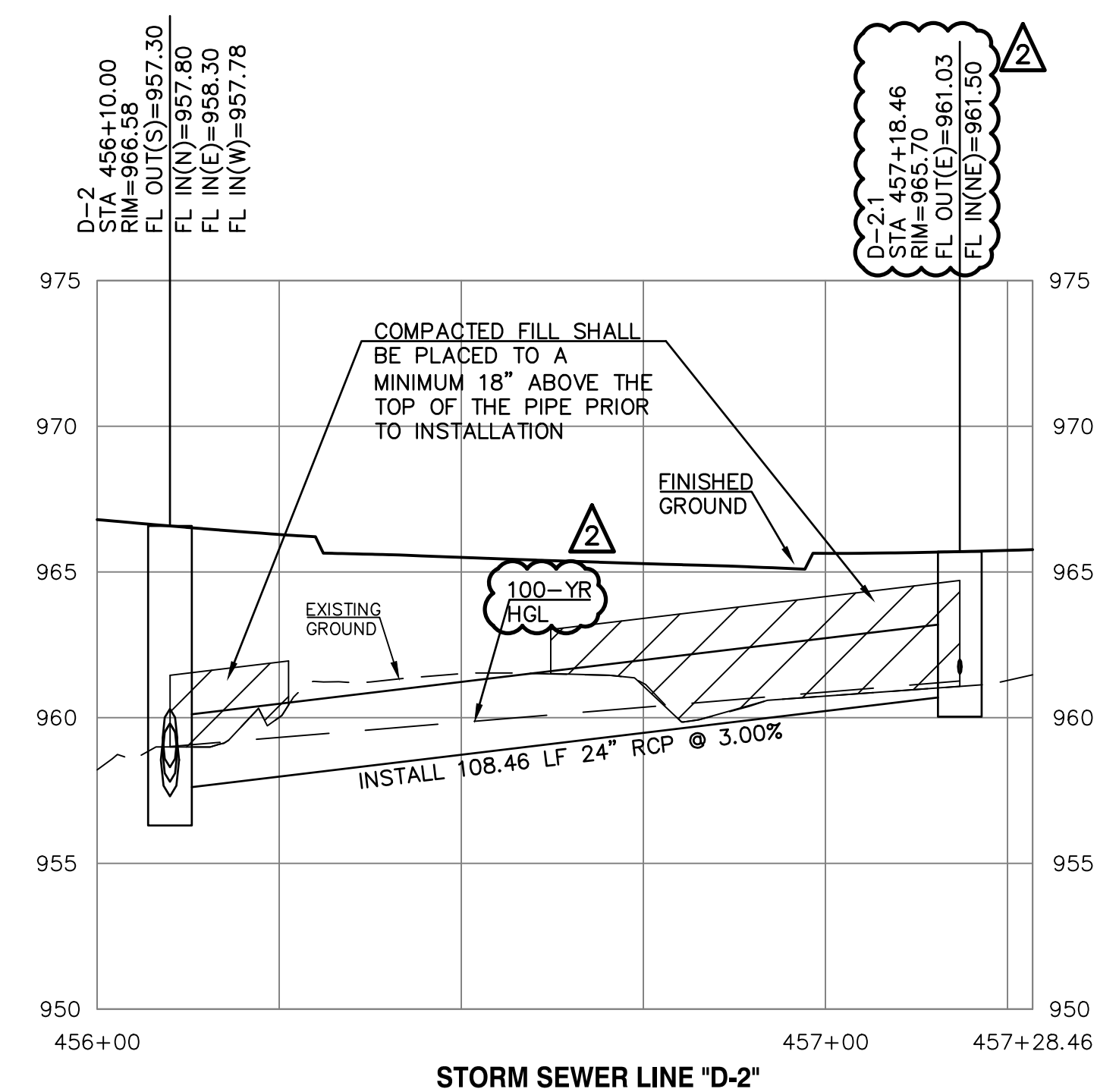
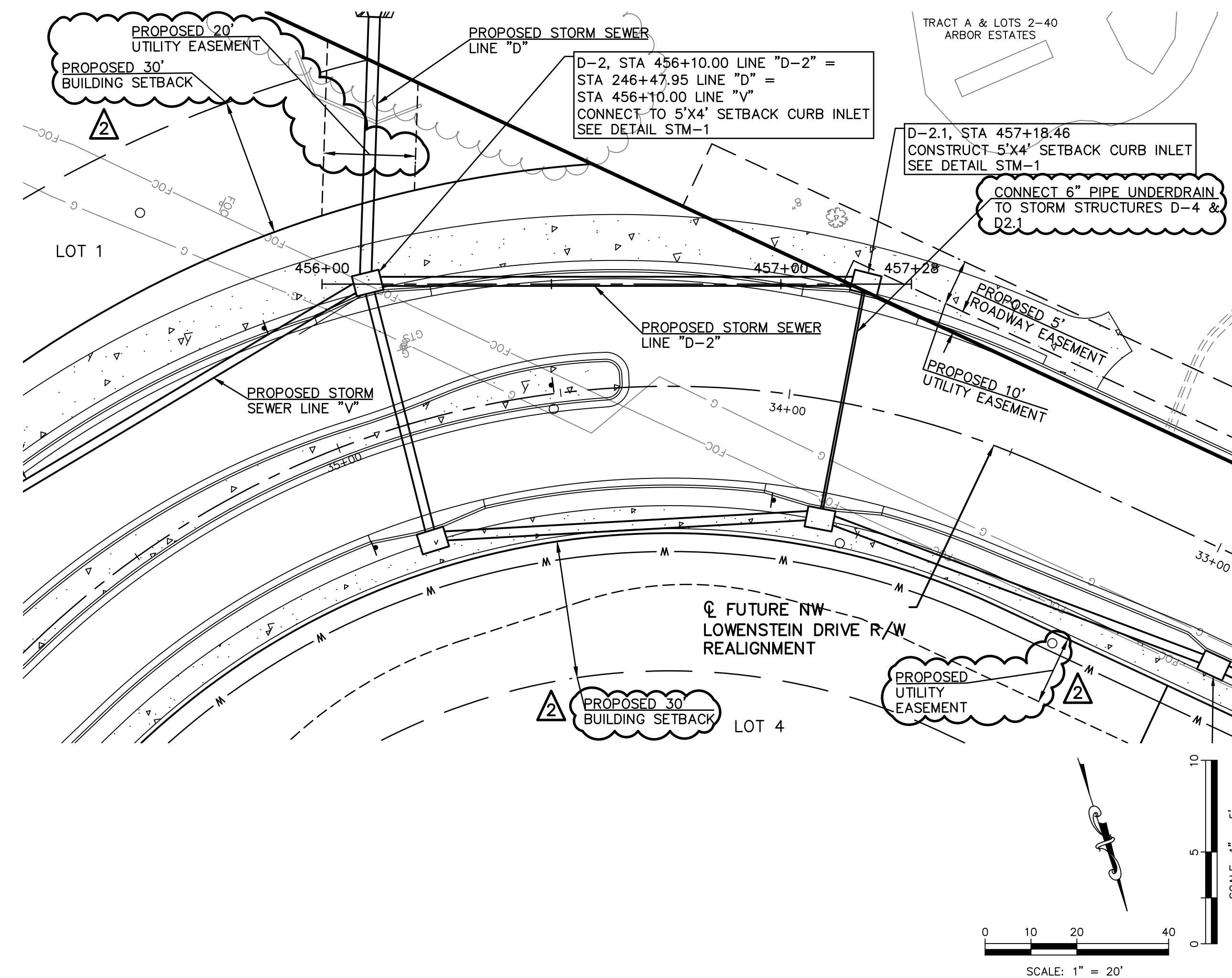
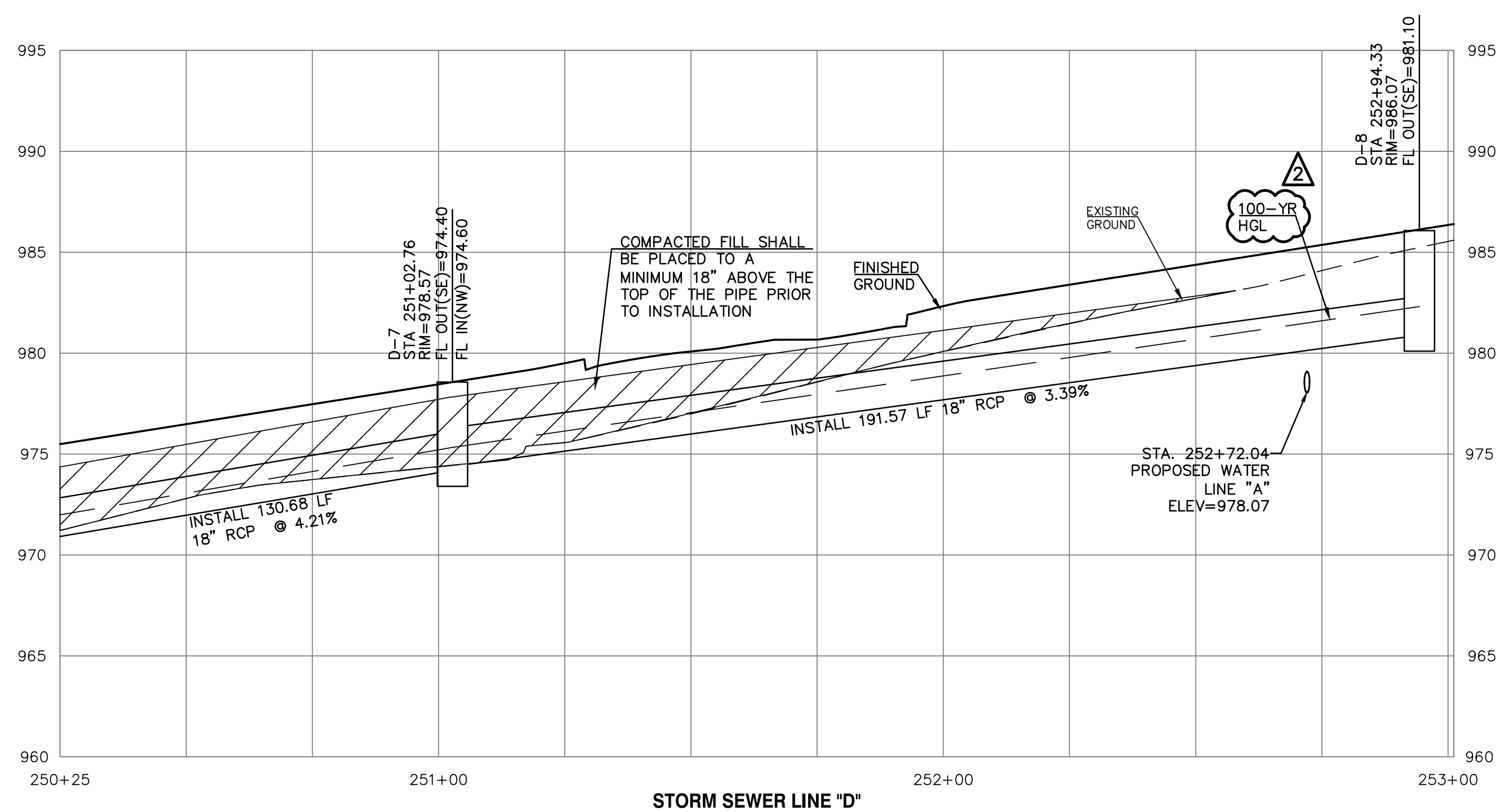
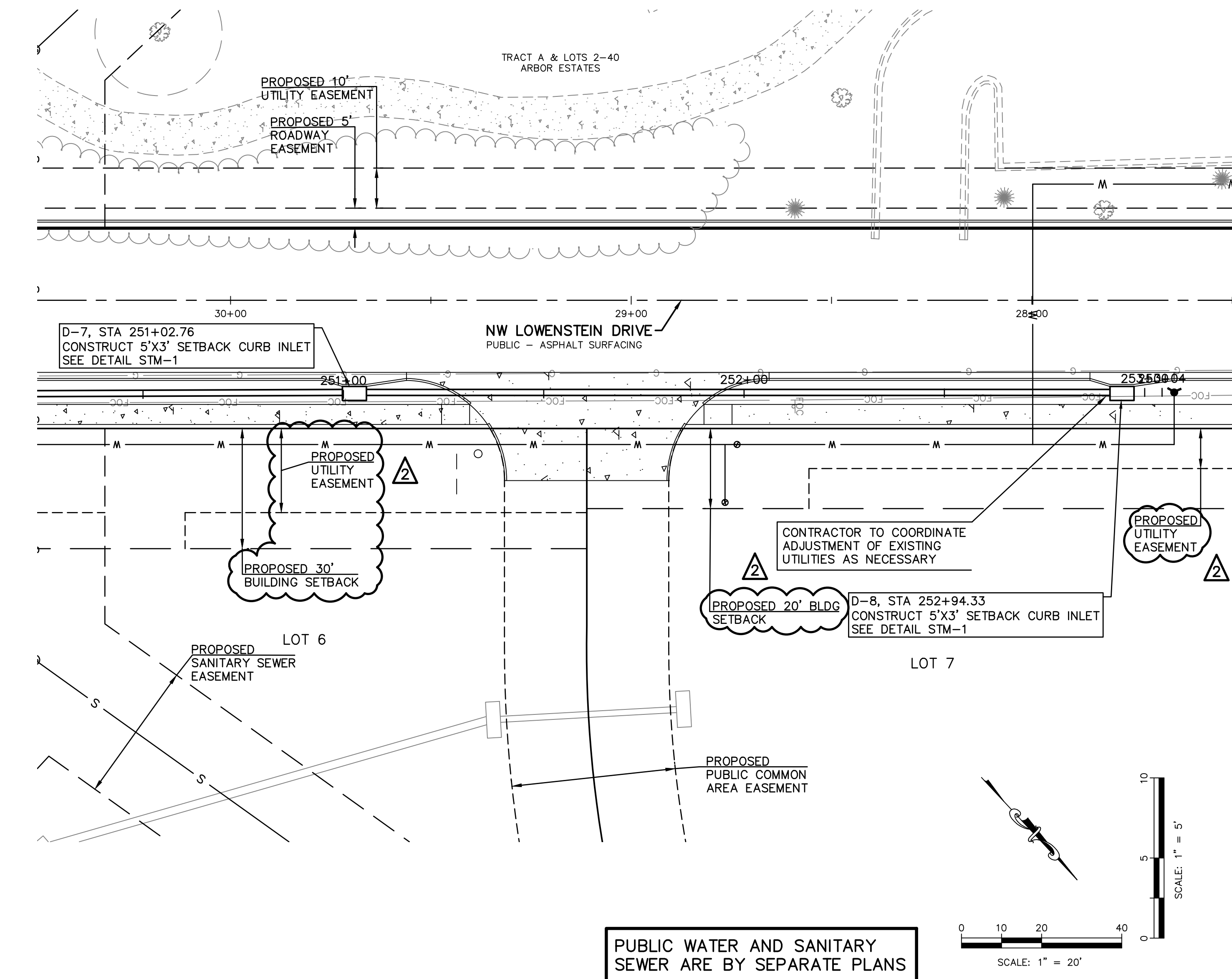


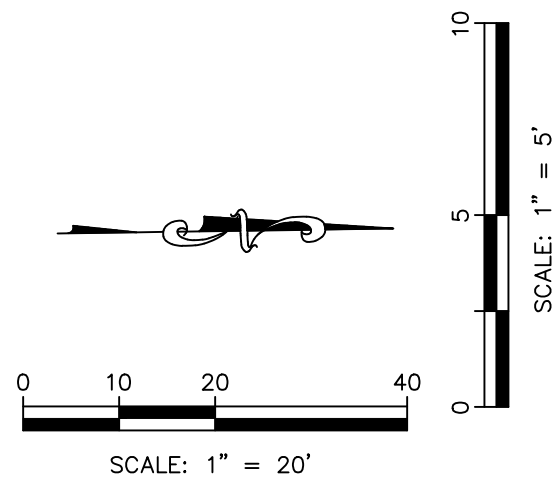
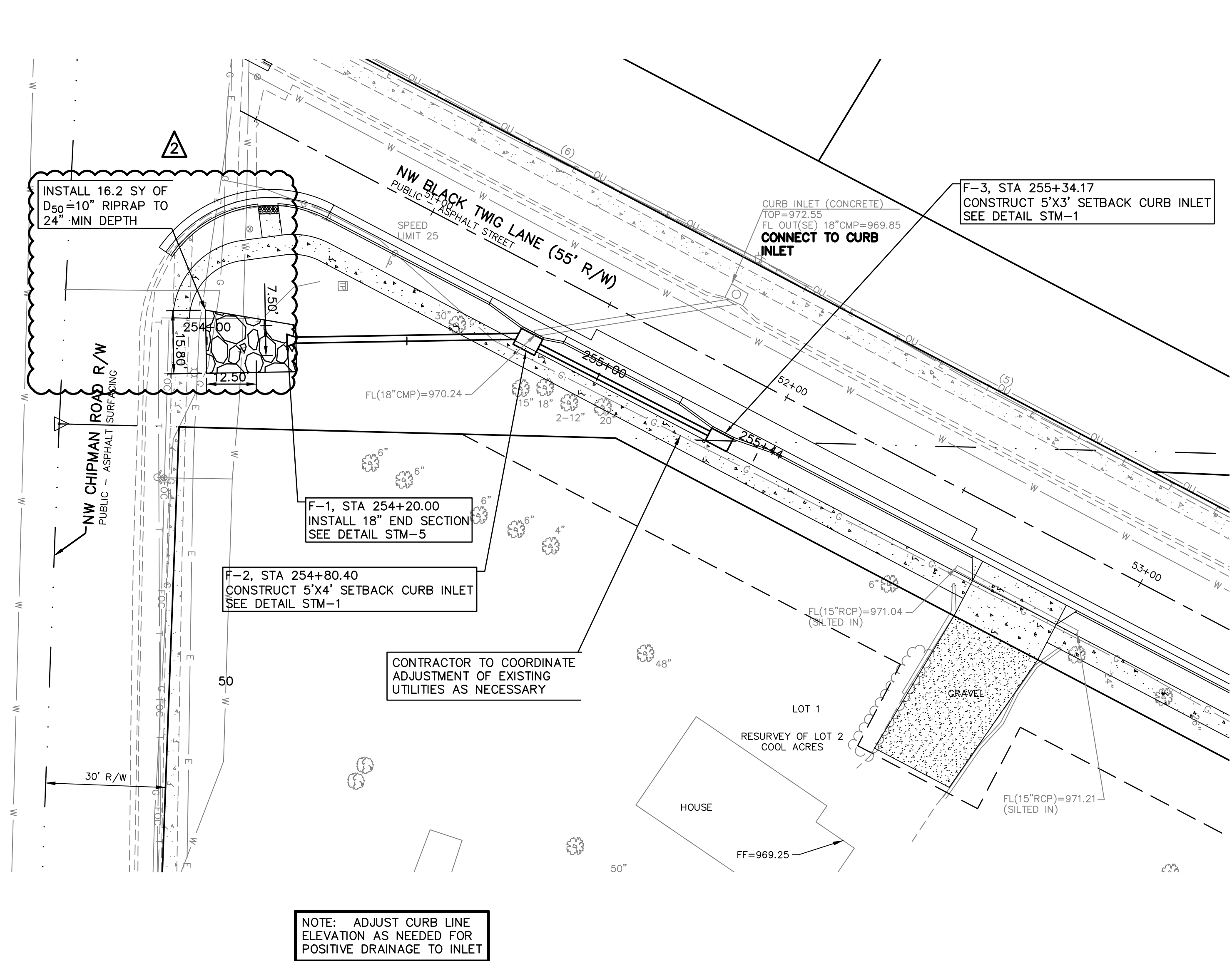


STREETS OF WEST PRYOR NWQ NW PRYOR RD & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI		PUBLIC STREET PLANS DRAINAGE AREA MAP	
PROJ. NO. A14 - 7067-1			
DESIGNER LDO		DRAWN BY JT/BKR	
CFN			
SHEET 7067-1PI_DAM		REV	
14		3	

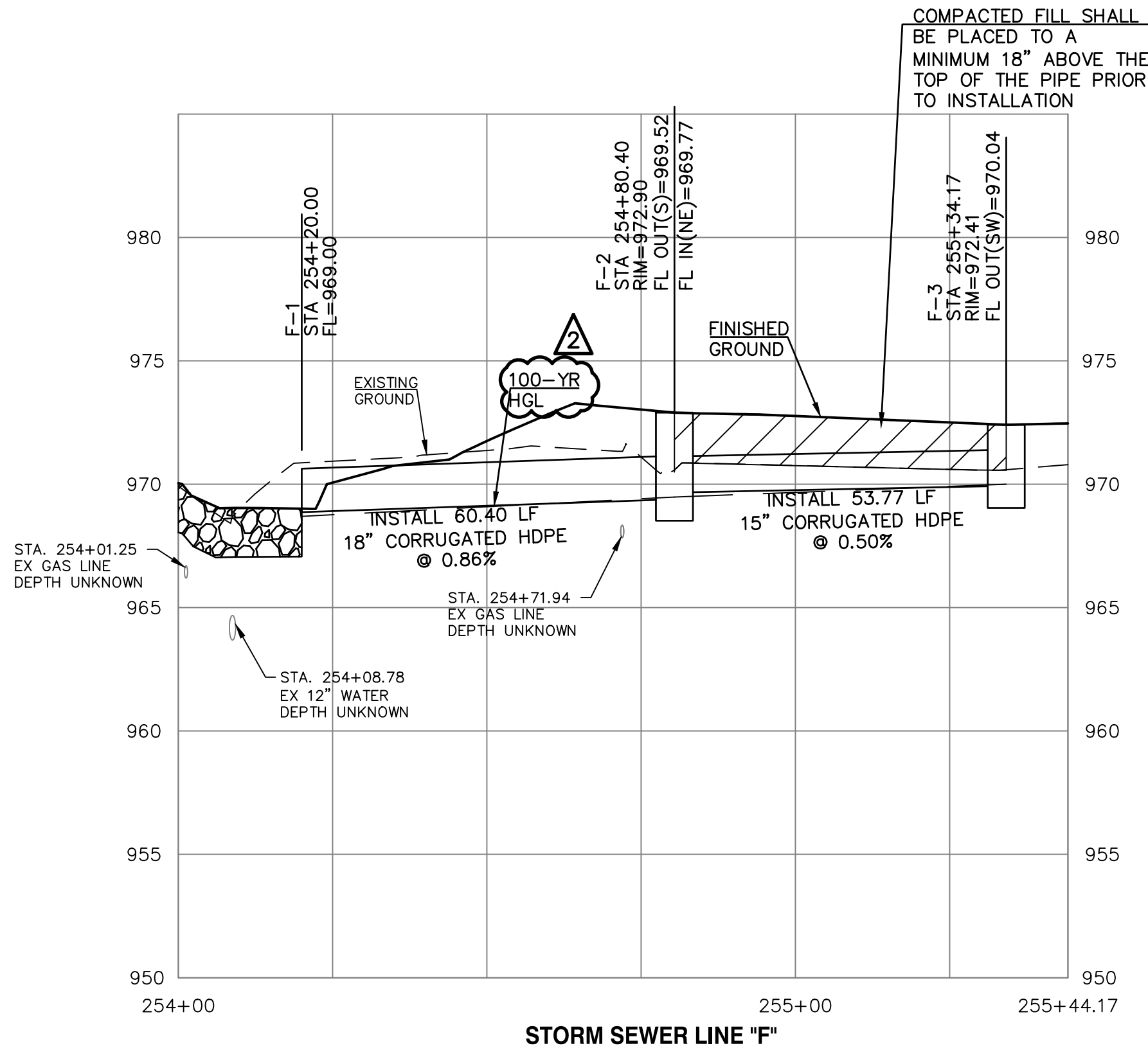


PROJ. NO. A14_7067-1		DESIGNER UDO		DRAWN BY J/BJR	
SHEET 15		CDR. 0767-1PI-DPP		REV	
STREETS OF WEST PRYOR NWQ NW PRYOR RD & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI		PUBLIC STREET PLANS STORM SEWER PLAN AND PROFILE - LINE D			
 K&V KAW VALLEY ENGINEERING KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000942. EXPIRES 12/31/19		2319 N. JACKSON P.O. BOX 1304 JACKSON, MISSOURI 64501 PH. (783) 782-5040 FAX (783) 782-7744 jck&veng.com www.kveng.com		LEON D. OSBOURN ENGINEER MO # 021726	
					
REV	DATE	DESCRIPTION	DSN	DWN	CHK
2	7-5-19	REVISED PER CITY COMMENTS	UDO	JT	UDO
	5-16-19	REVISED PER CITY COMMENTS	UDO	JT	UDO
0	01-11-19	INITIAL ISSUE	UDO	JT	UDO





PUBLIC WATER AND SANITARY SEWER ARE BY SEPARATE PLANS

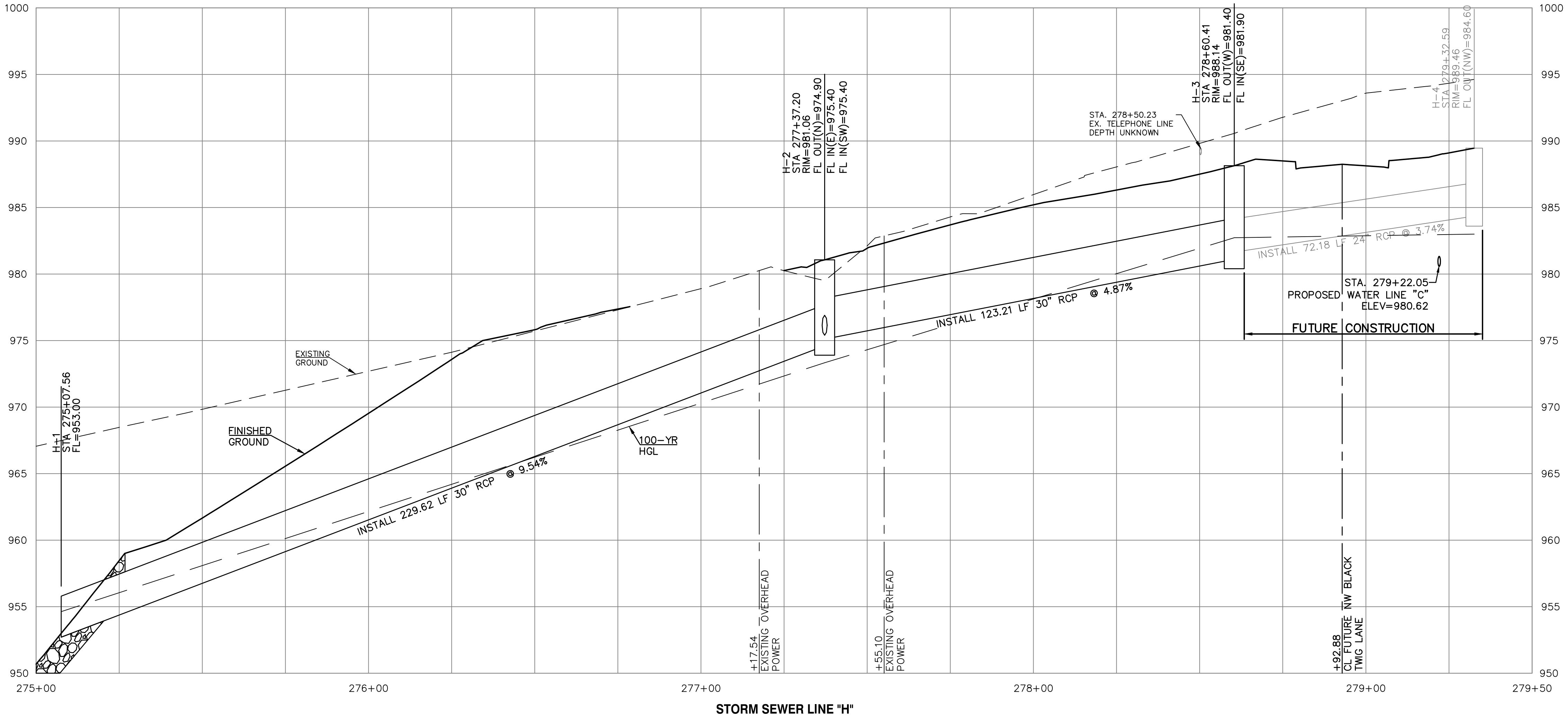
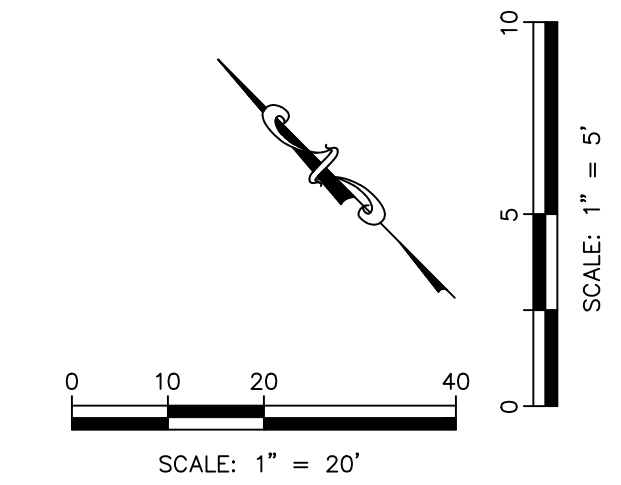
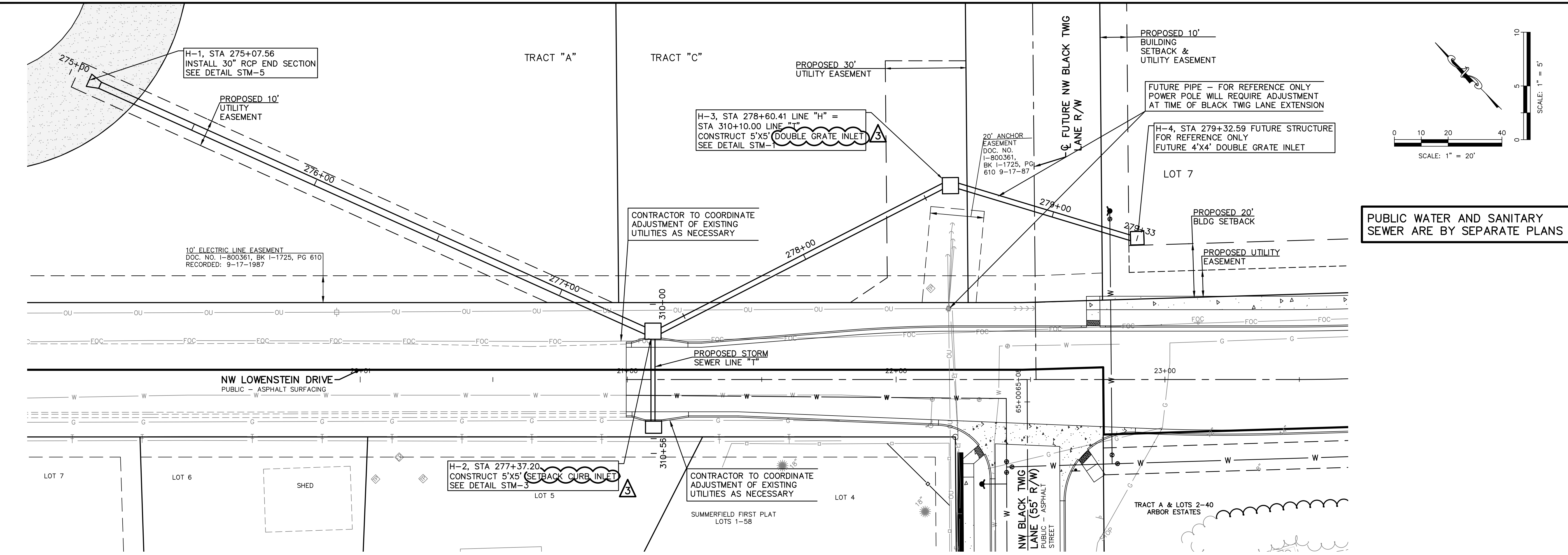


REV	DATE	DESCRIPTION	CHK
2	7-5-19	REVISED PER CITY COMMENTS	LDO
1	5-18-19	REVISED PER CITY COMMENTS	JT
0	01-11-19	INITIAL ISSUE	LDO
			DSN
			DWN
			CHK

2319 N. JACKSON P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 PH. (785) 762-5040 FAX (785) 762-7744 joe@kveeng.com www.kveeng.com	LEON D. OSBOURN ENGINEER MO # 021726
--	--

KAW VALLEY ENGINEERING KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES IN THE STATE OF MISSOURI. CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19.	STREETS OF WEST PRYOR NWQ NW PRYOR RD & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI PUBLIC STREET PLANS STORM SEWER PLAN AND PROFILE - LINE F
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PROJ. NO.	A14_7067-1
DESIGNER	LDO
DRAWN BY	JT/BKR
CFN	7067-1PI_DPP
SHEET	17
REV	2



PROJ. NO.	A14-7067-1
DESIGNER	LDO
DRAWN BY	JT/BKR
CFN	7067-1PI_DPP
SHEET	18
REV	3

REV	DATE	DESCRIPTION	CHK
0	01-11-19	INITIAL ISSUE	LDO
1	5-18-19	REVISED PER CITY COMMENTS	LDO
2	7-5-19	REVISED PER CITY COMMENTS	LDO
3	7-25-19	REVISED PER CITY COMMENTS	LDO

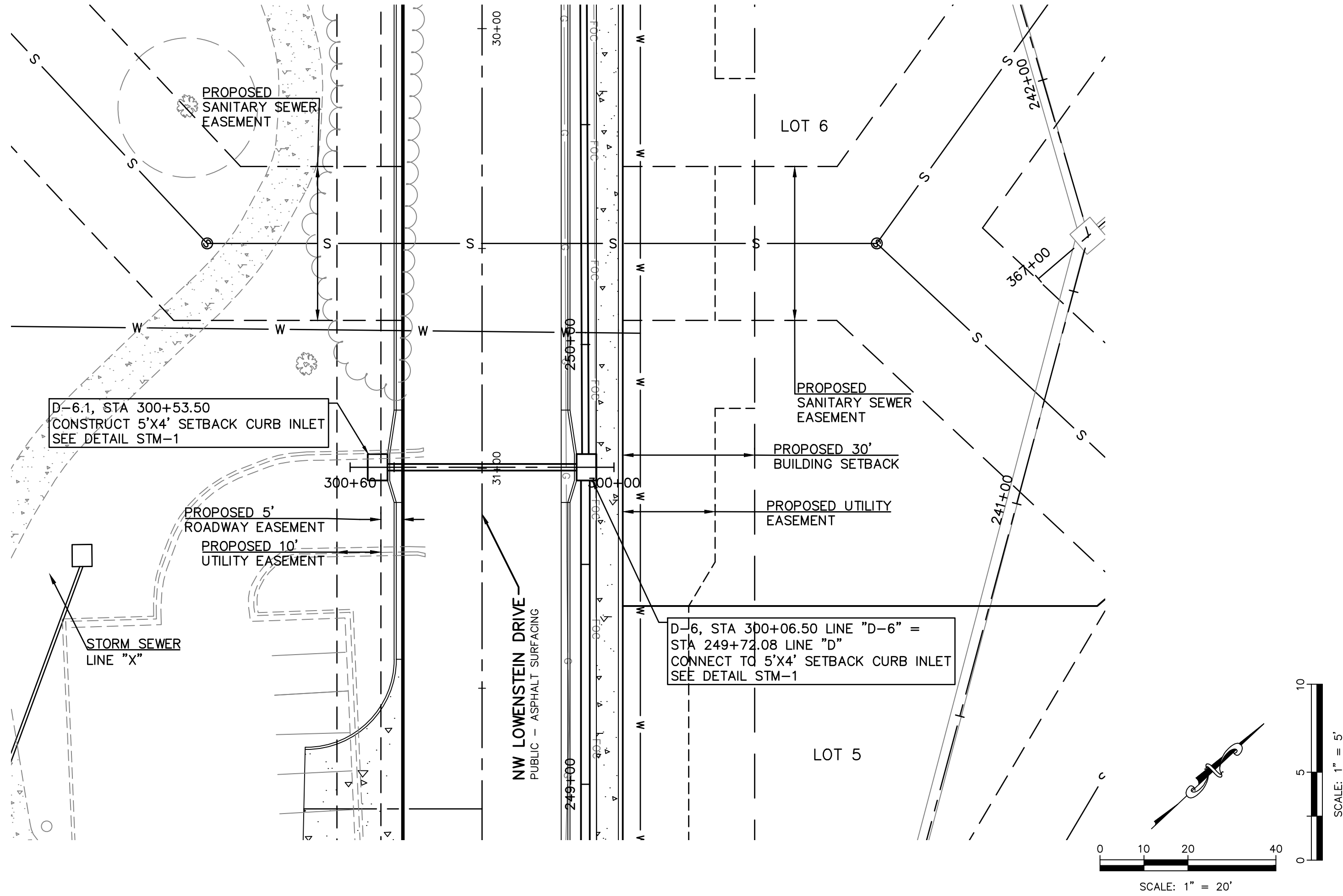
LEON D. OSBOURN
ENGINEER
MO # 021726

KAW VALLEY ENGINEERING
2319 N. JACKSON | P.O. BOX 1304
JUNCTION CITY, KANSAS 66441
PH. (785) 762-5040 | FAX. (785) 762-7744
j@kveg.com | www.kveg.com

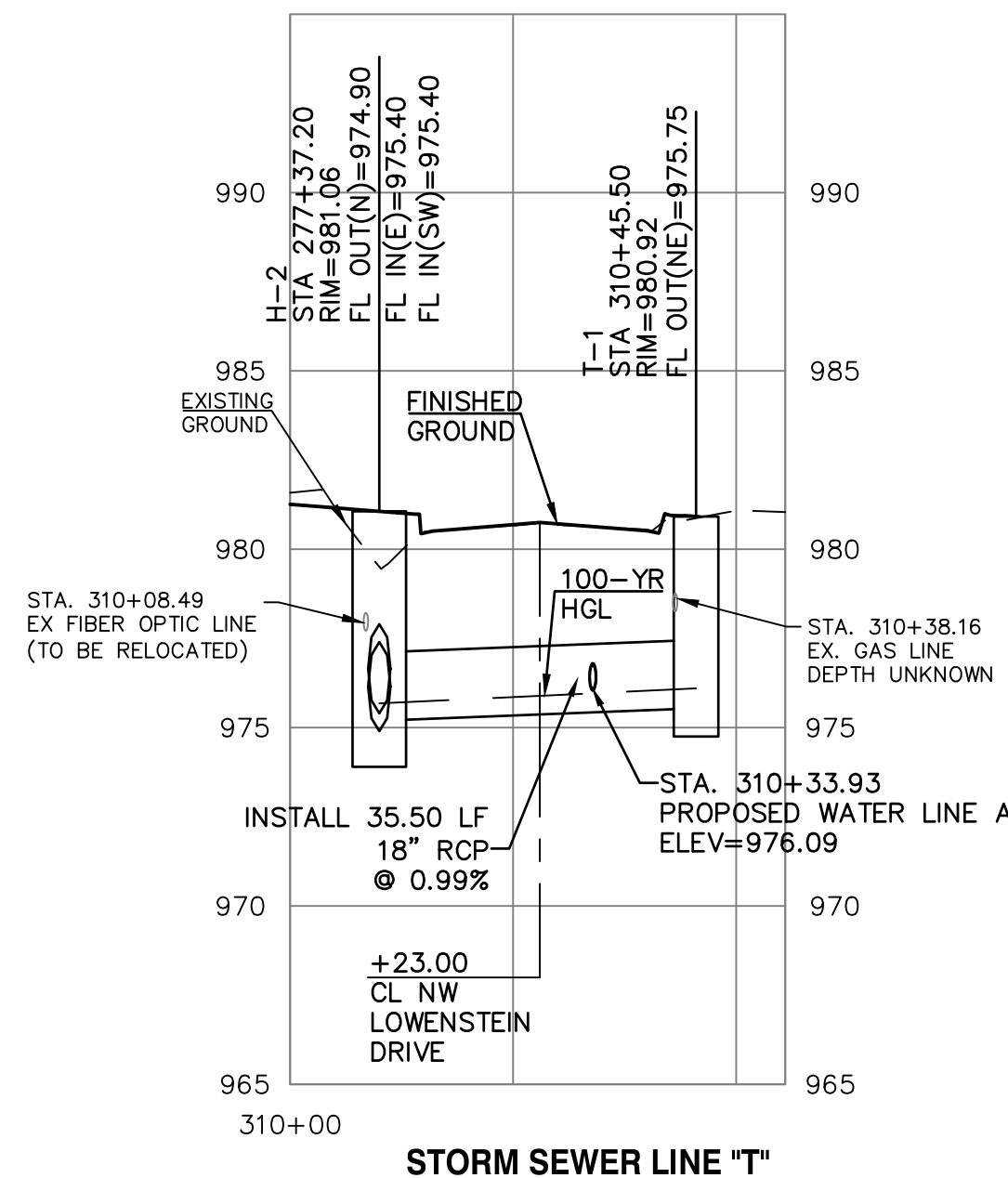
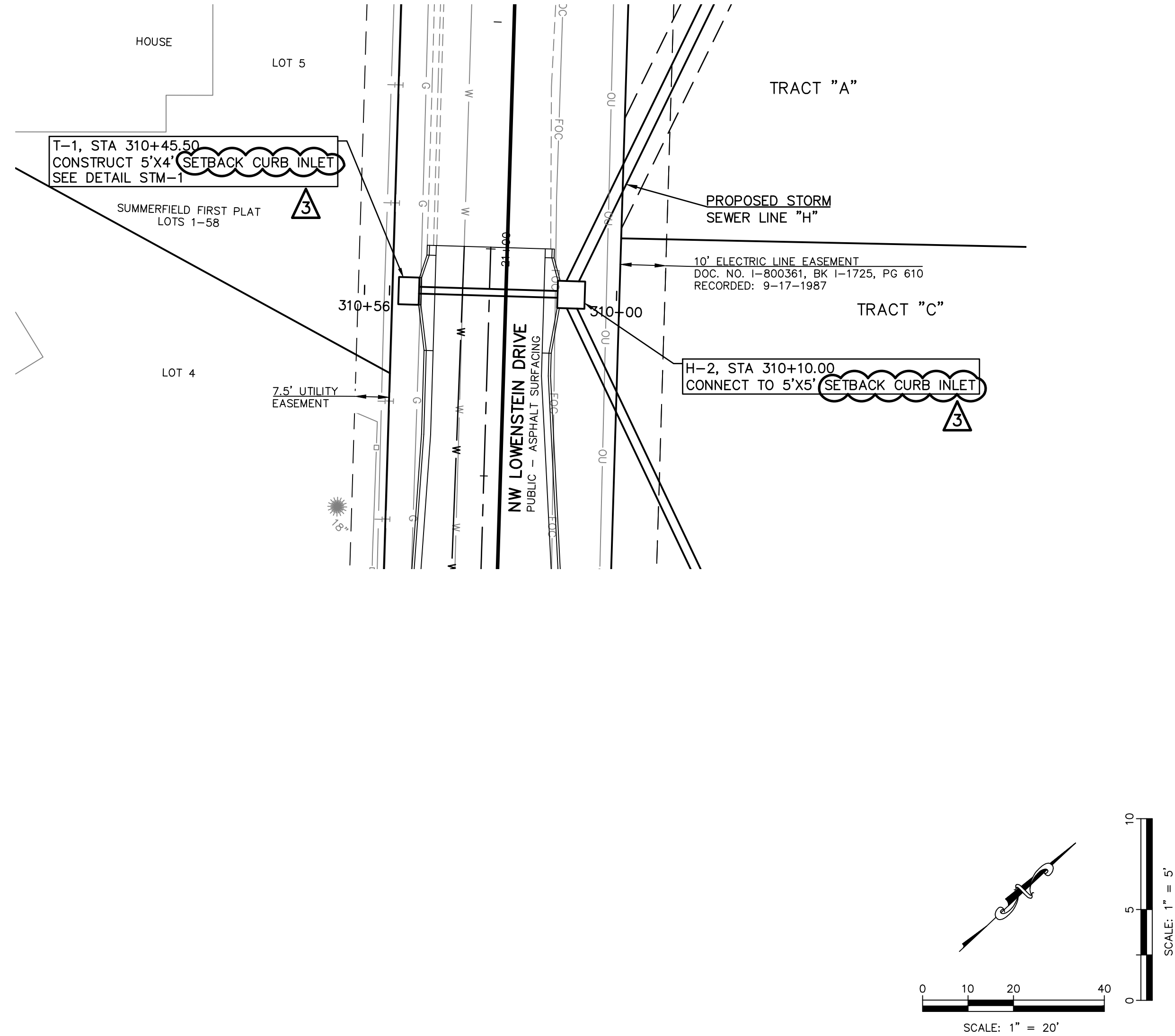
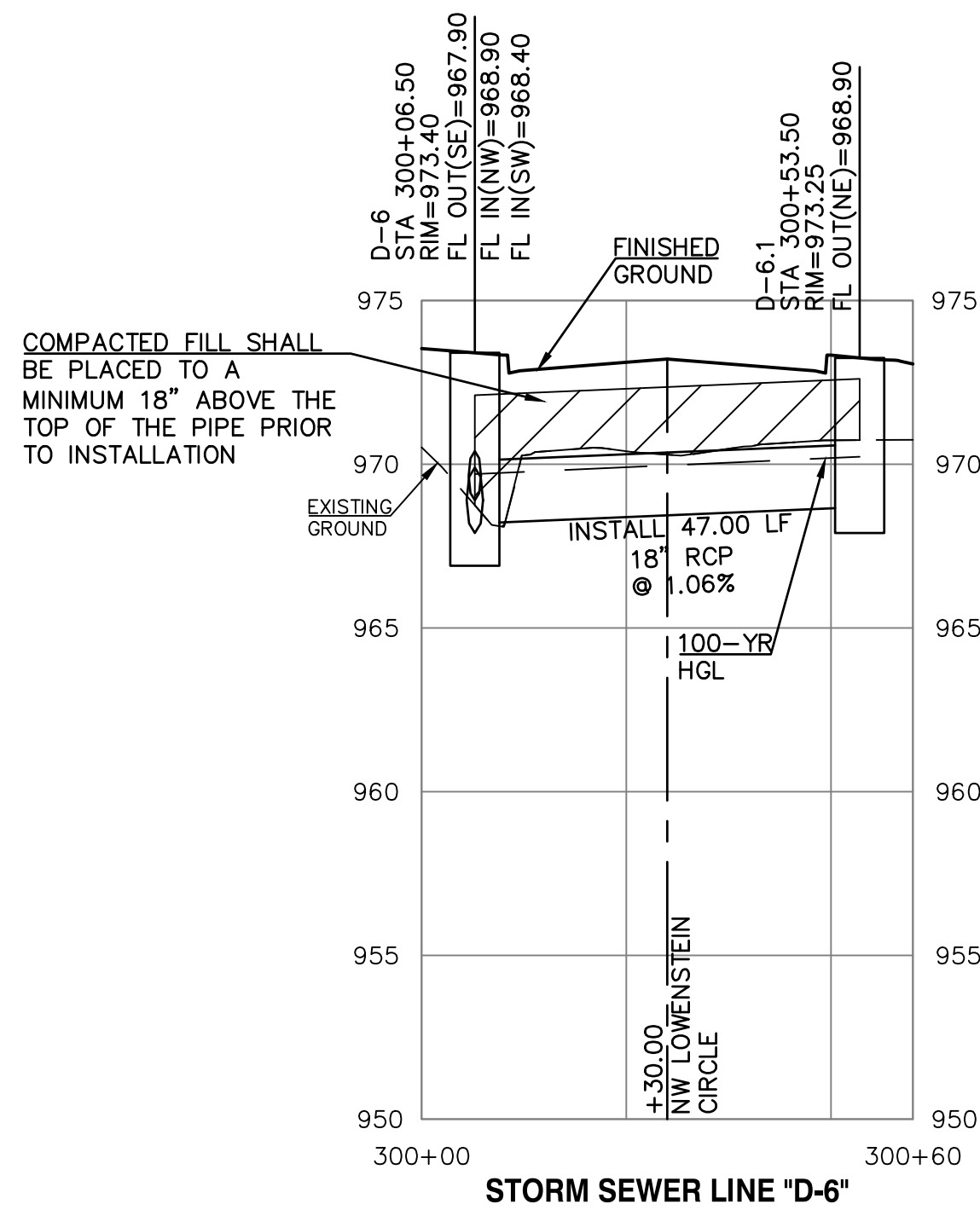
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES IN THE STATE OF MISSOURI. CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19.

STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

PUBLIC STREET PLANS
STORM SEWER PLAN AND PROFILE - LINE H



PUBLIC WATER AND SANITARY
SEWER ARE BY SEPARATE PLANS



PROJ. NO. A14-7067-1	
DESIGNER LDO	DRAWN BY JT/BKR
CFN 7067-1PI-DPP	
SHEET 19	REV 3

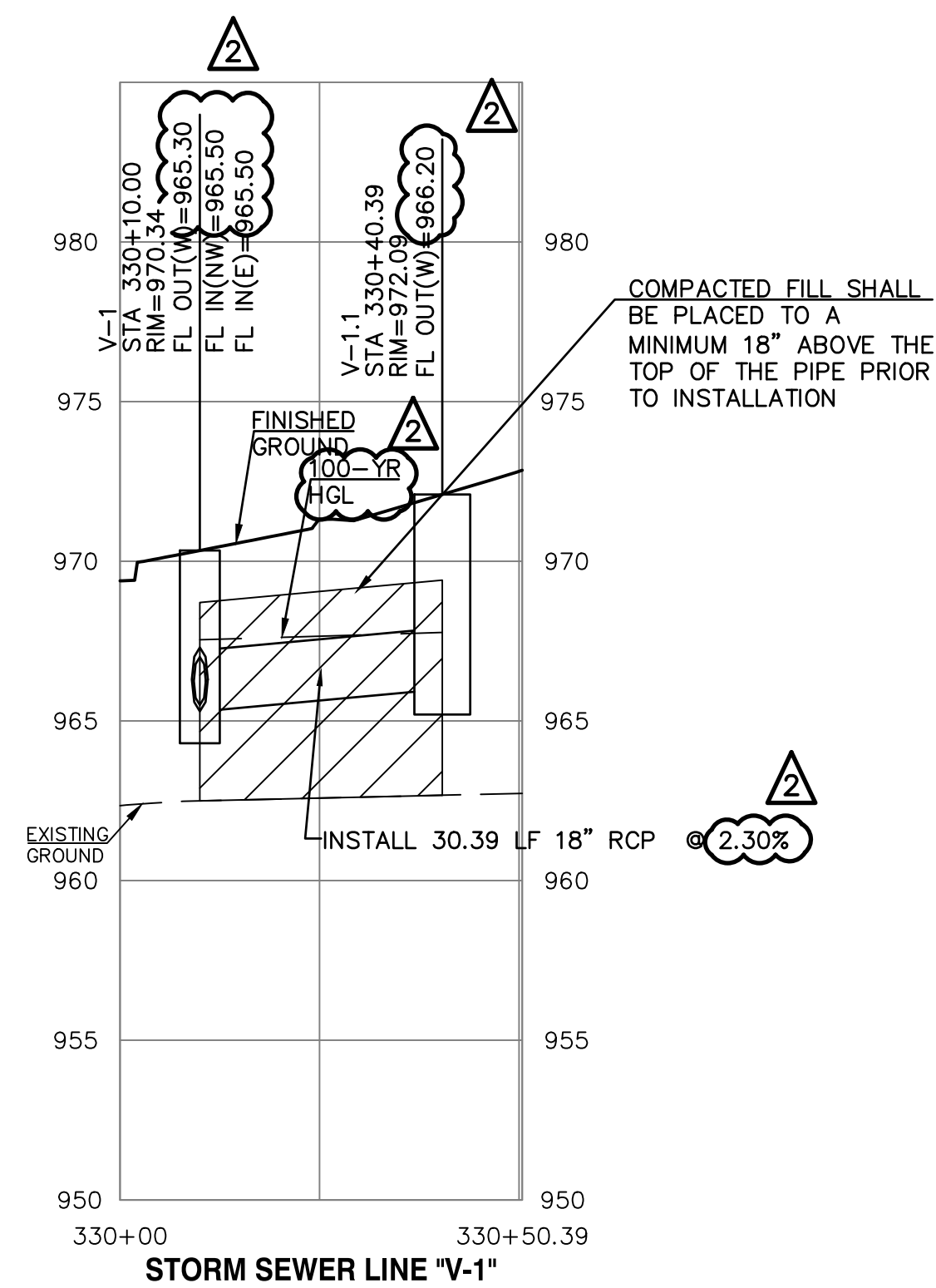
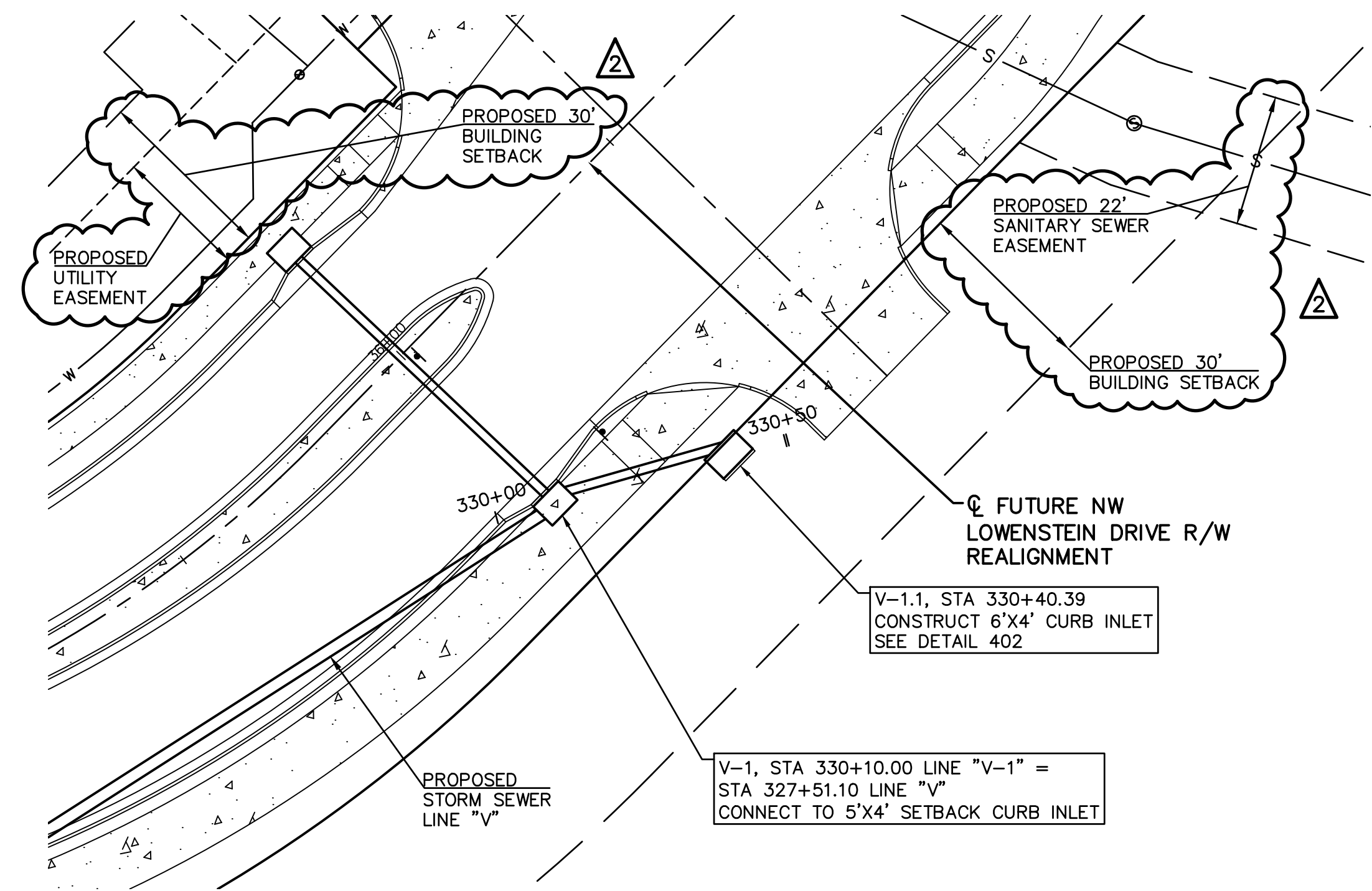
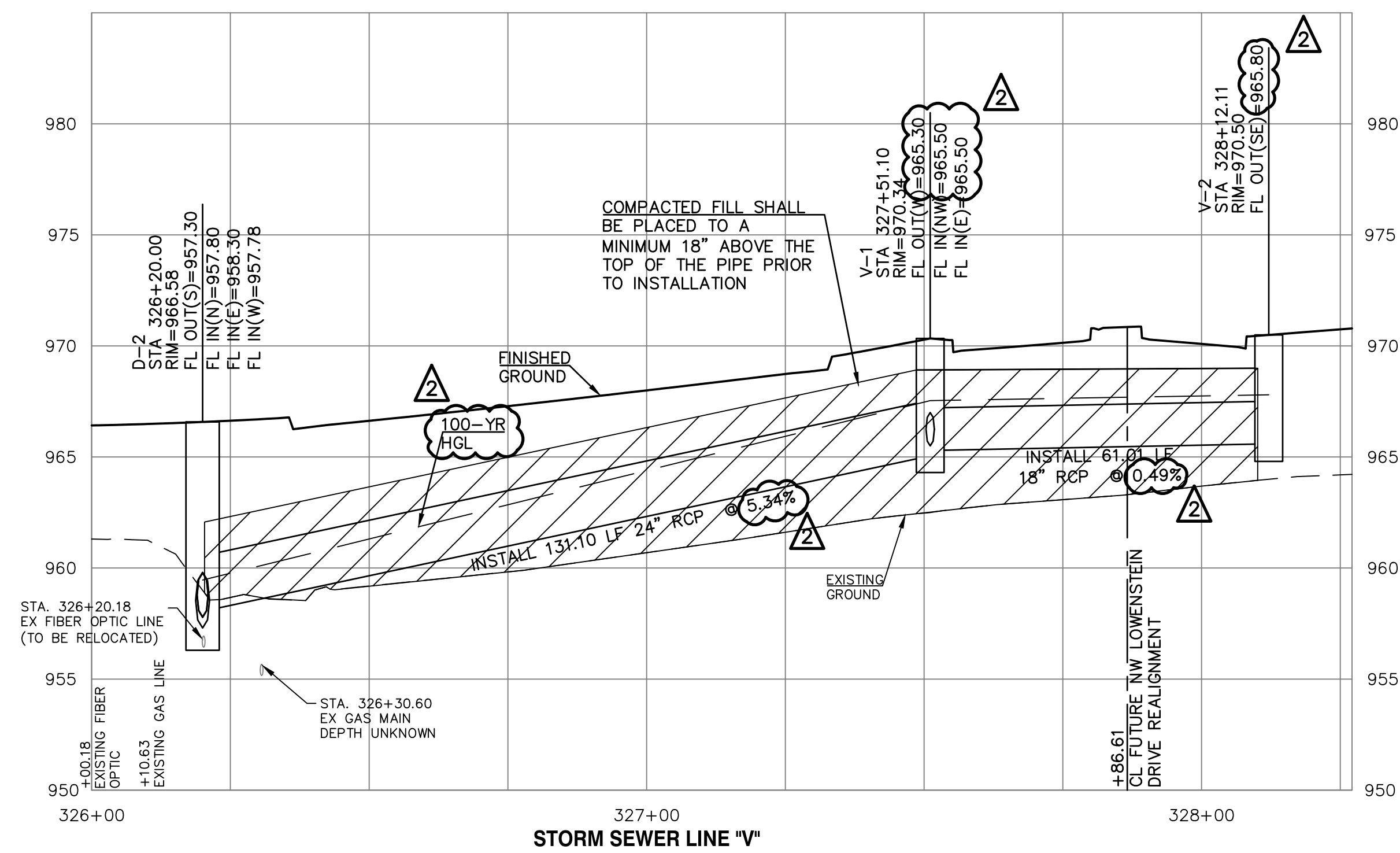
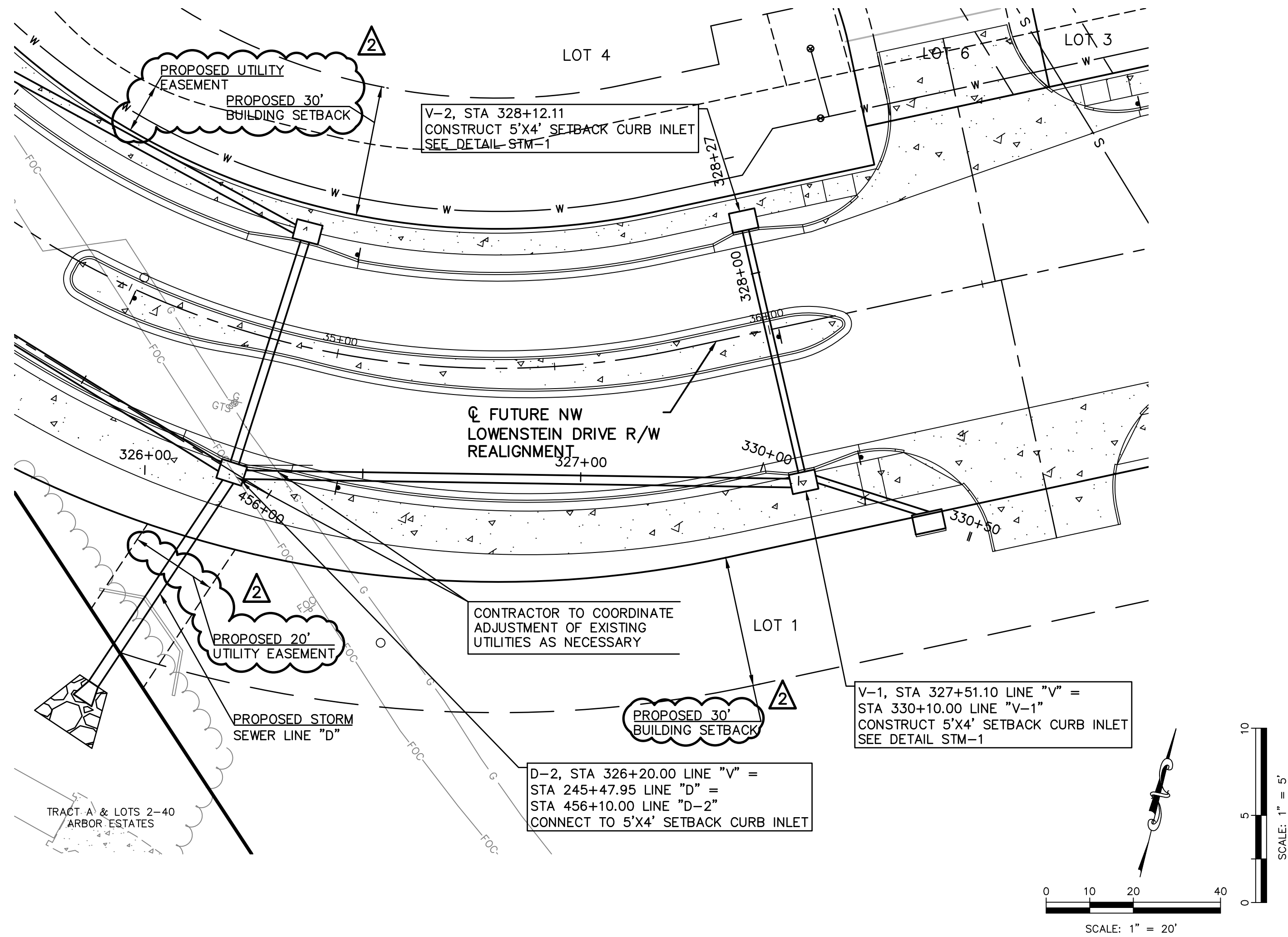
STREETS OF WEST PRYOR NWQ NW PRYOR RD & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI	PUBLIC STREET PLANS STORM SEWER PLAN AND PROFILE - LINE D-6 AND T
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2319 N. JACKSON P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 PH. (785) 762-5040 FAX (785) 762-7744 joe@kve.com www.kve.com	KAW VALLEY ENGINEERING KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES IN MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19
--	--

LEON D. OSBOURN ENGINEER MO # 021726	STATE OF MISSOURI REGISTERED PROFESSIONAL ENGINEER OSBOURN NUMBER 72519 E-21726
--	--

3	7-25-19	REVISED PER CITY COMMENT
2	7-5-19	REVISED PER CITY COMMENT
1	5-18-19	REVISED PER CITY COMMENTS
0	01-11-19	INITIAL ISSUE
REV	DATE	DESCRIPTION

LDO	BKR	LDO
LDO	JT	LDO
LDO	JT	LDO
DSN	DWN	CHK



PUBLIC WATER AND SANITARY SEWER ARE BY SEPARATE PLANS

2	7-5-19	REVISED PER CITY COMMENTS	LDO	JT	LDO
1	5-18-19	REVISED PER CITY COMMENTS	LDO	JT	LDO
0	01-11-19	INITIAL ISSUE	LDO	JT	LDO
REV	DATE	DESCRIPTION	DSN	DWN	CHK

STATE OF MISSOURI

LEON D. OSBOURN
ENGINEER
NUMBER 75519
E-21726

LEON D. OSBOURN
ENGINEER
MO # 021726

2319 N. JACKSON | P.O. BOX 1304
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joe@kveeng.com | www.kveeng.com

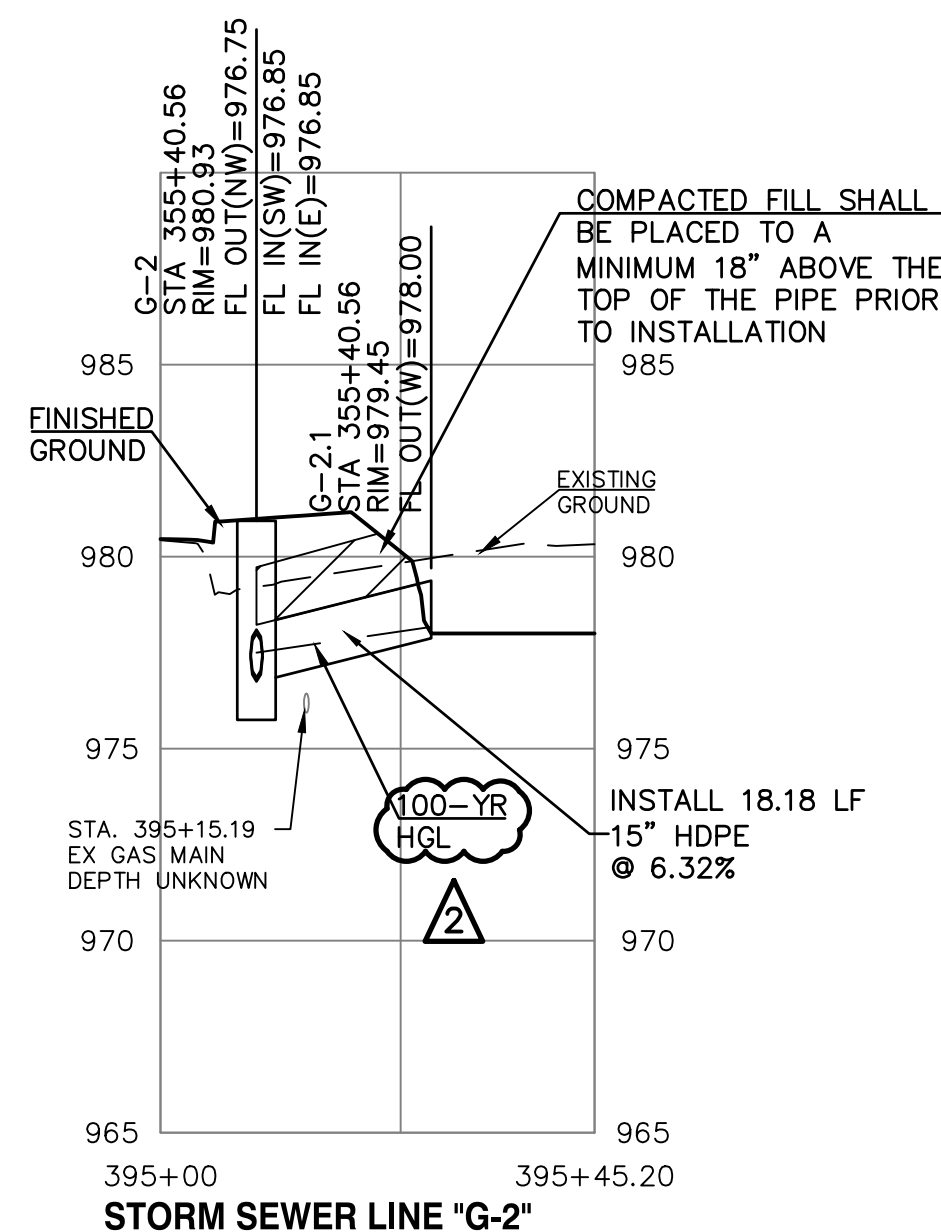
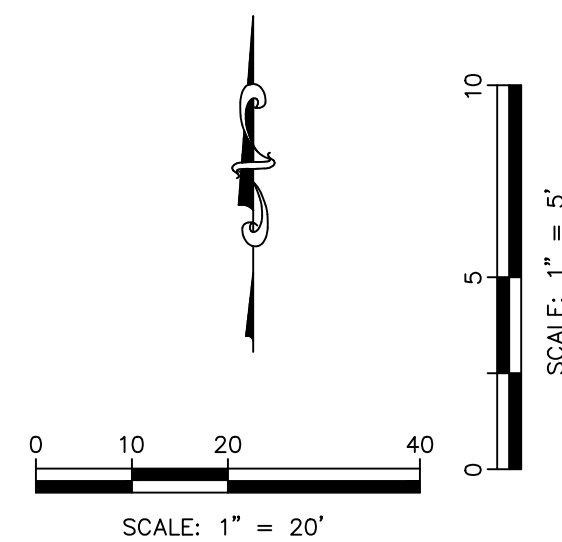
KAW VALLEY ENGINEERING

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

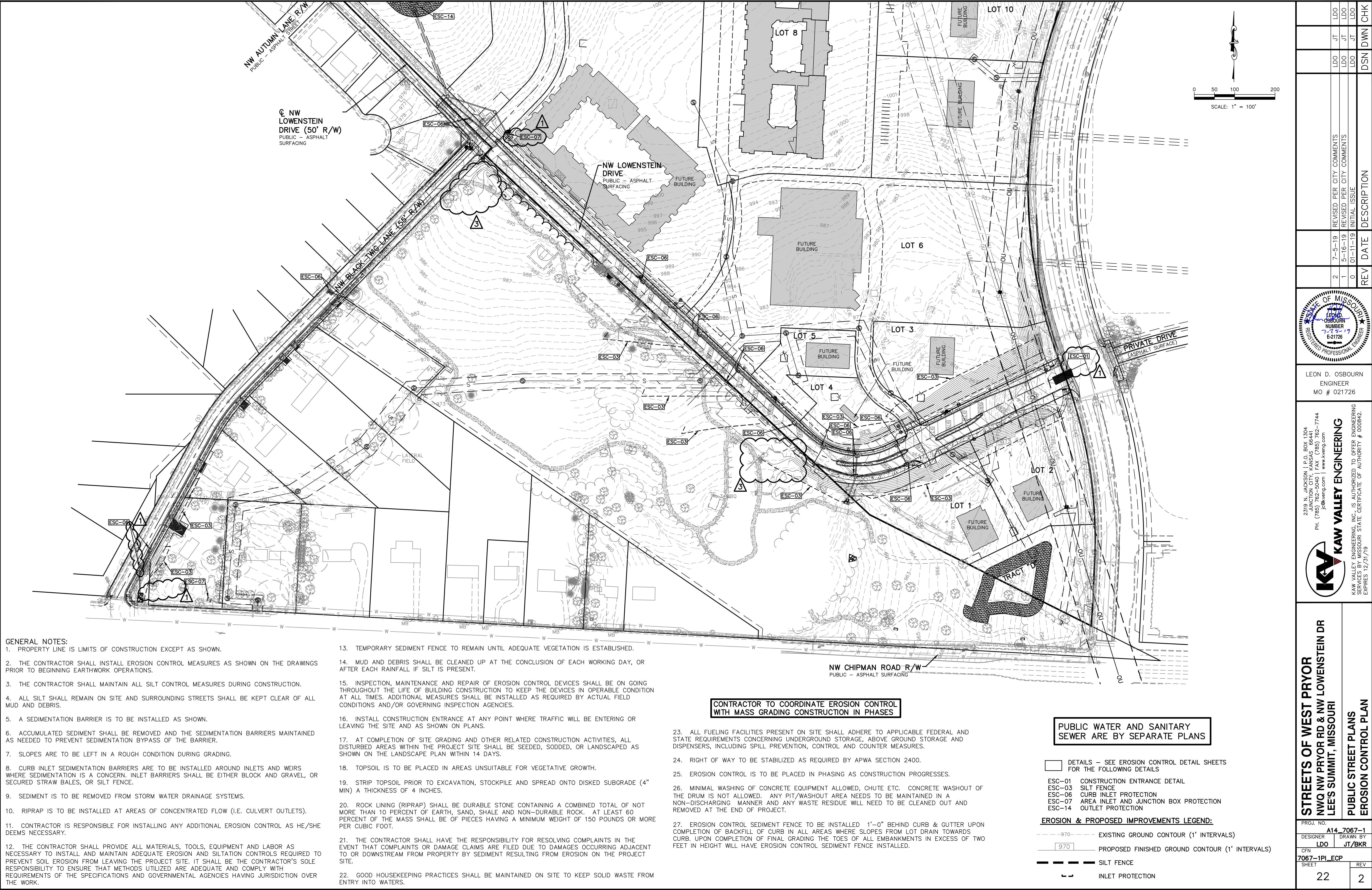
STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

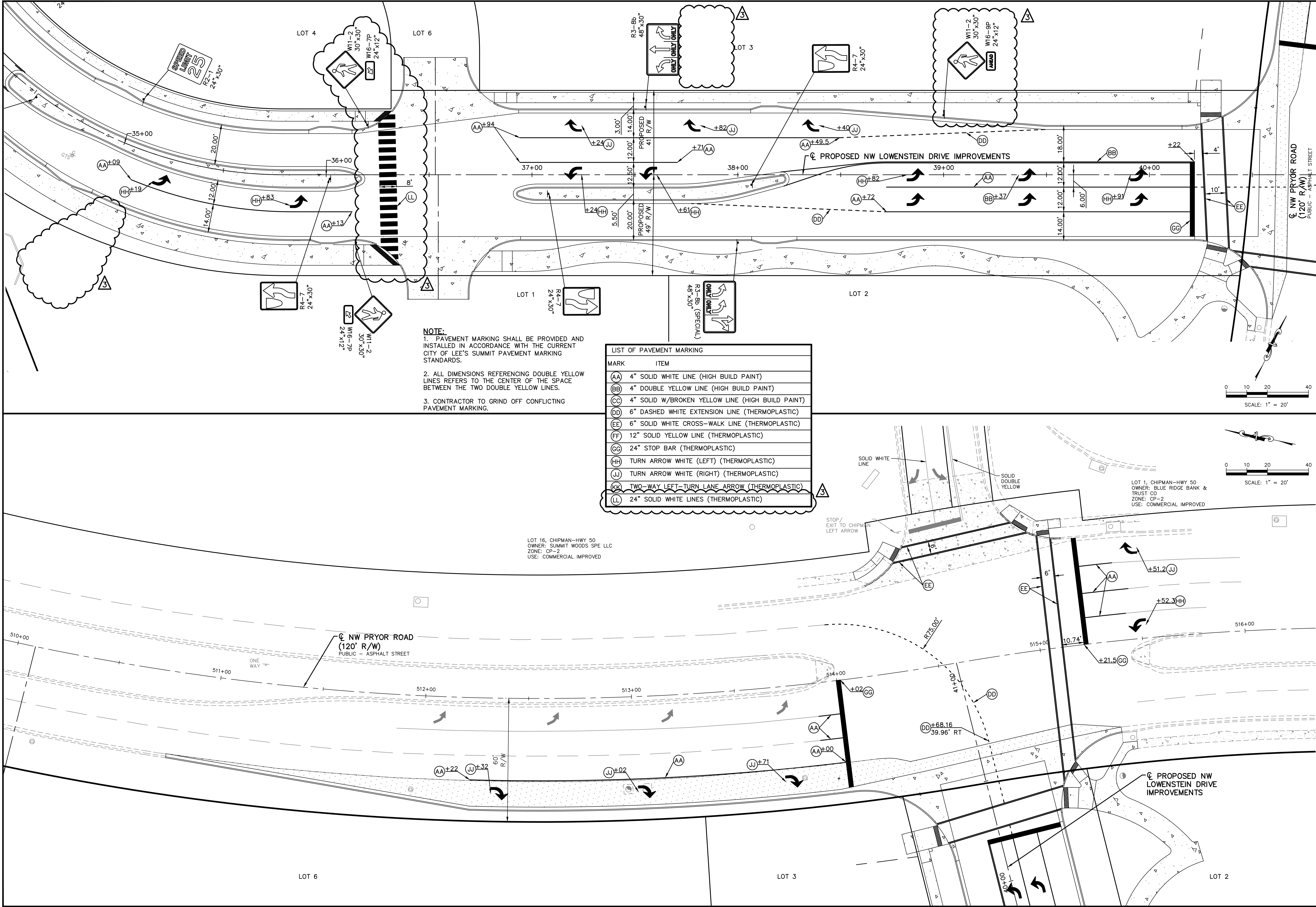
PUBLIC STREET PLANS
STORM SEWER PLAN AND PROFILE - LINE V AND V-1

PROJ. NO.	A14-7067-1
DESIGNER	LDO
DRAWN BY	JT/BKR
CFN	7067-1PI_DPP
SHEET	20
REV	2



STREETS OF WEST PRYOR NWQ NW PRYOR RD & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI		PUBLIC STREET PLANS STORM SEWER PLAN AND PROFILE - LINE G	
PROJ. NO. A14-7067-1			
DESIGNER LDO	DRAWN BY JT/BKR		
CFN 7067-1PL_DPP	REV 21		
SHEET 21		REV 2	





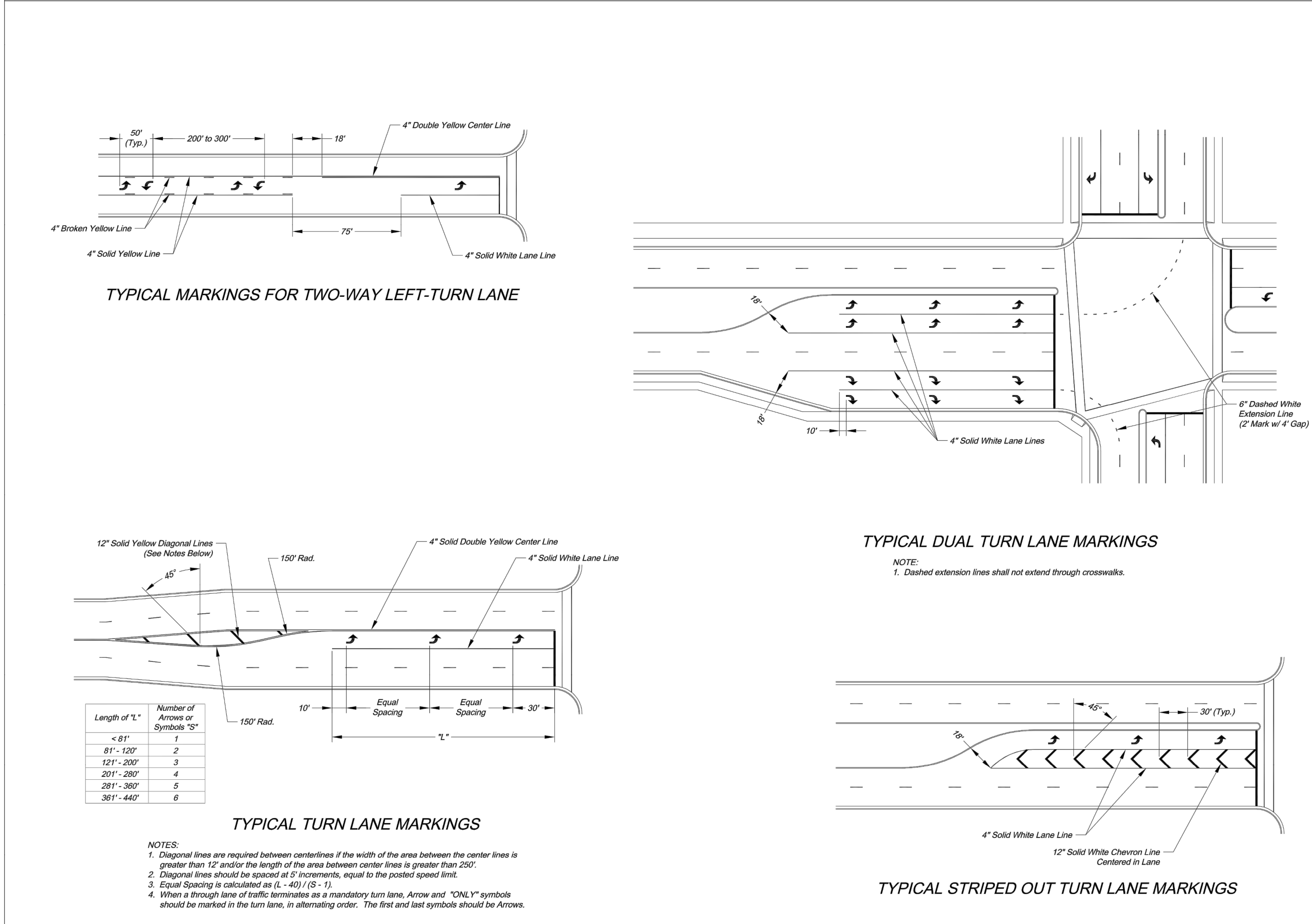
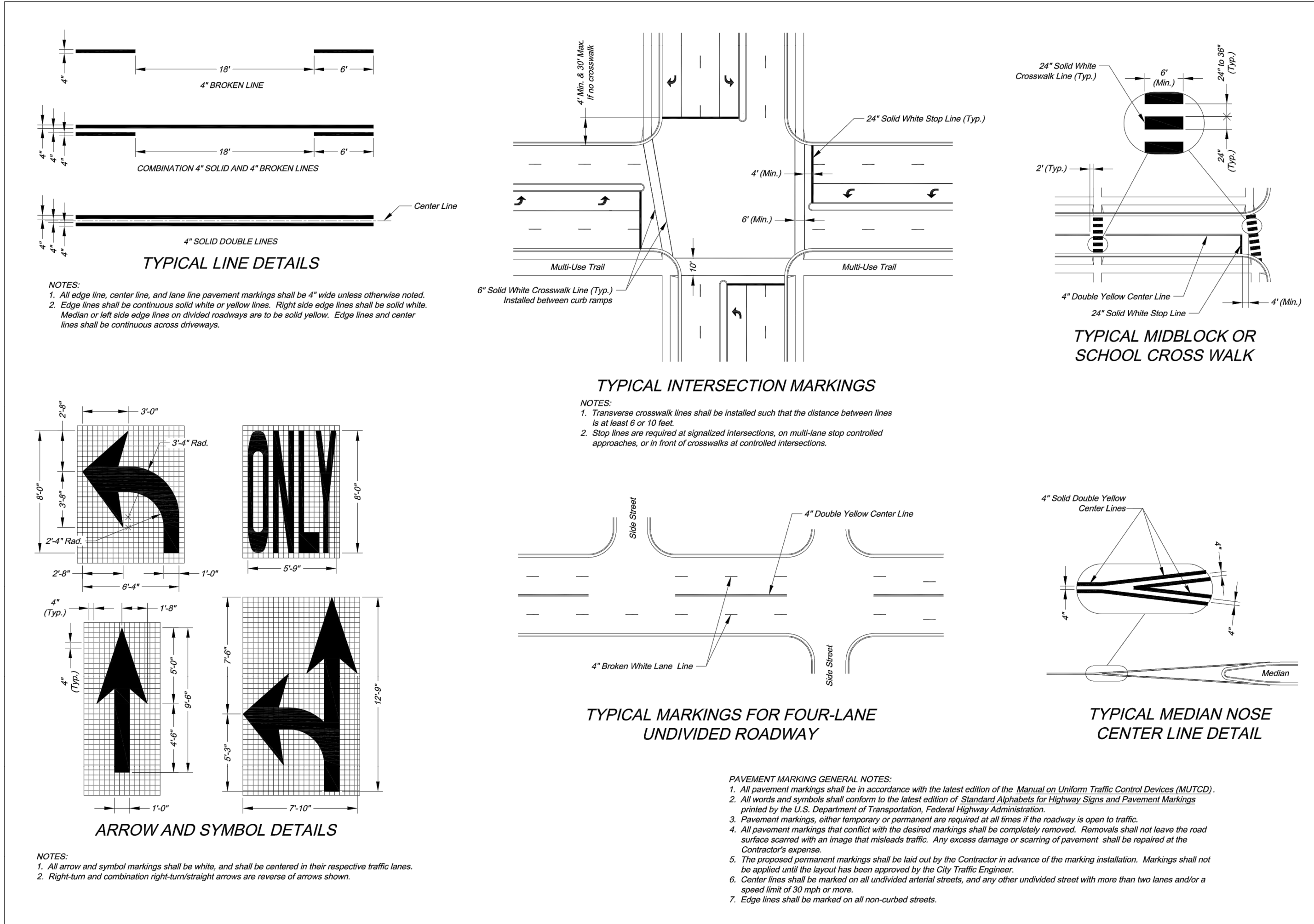
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DESIGNER	LDO
DRAWN BY	JT/BKR
CFN	7067-1PI_PMP
SHEET	24
REV	3

REV	DATE	DESCRIPTION
3	7-25-19	REVISED PER CITY COMMENT
2	7-5-19	REVISED PER CITY COMMENT
1	5-18-19	REVISED PER CITY COMMENT
0	01-11-19	INITIAL ISSUE

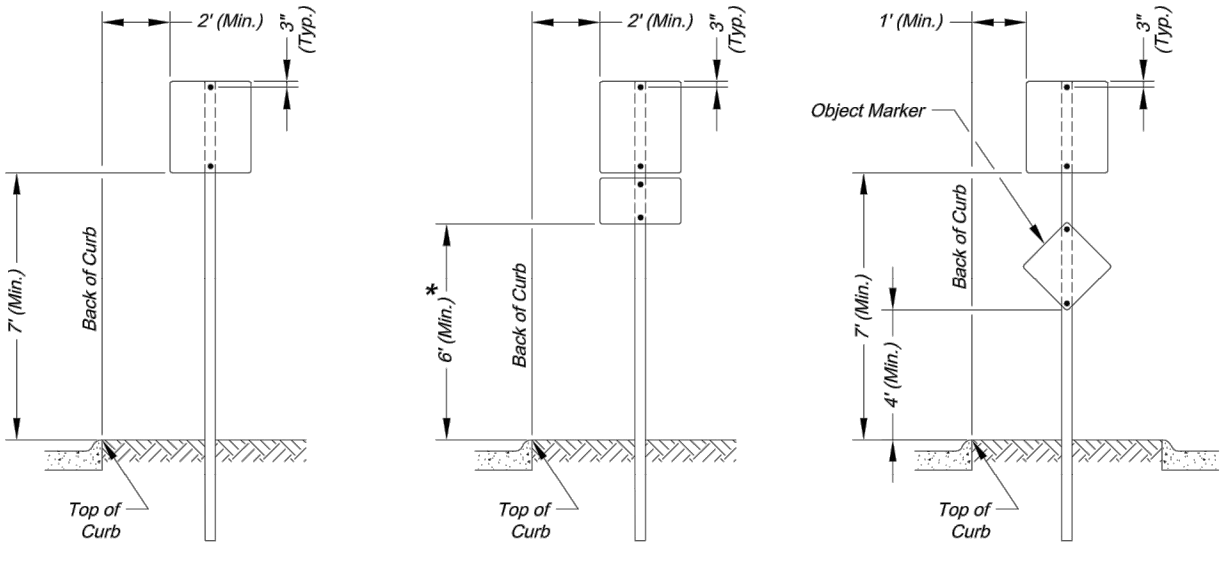
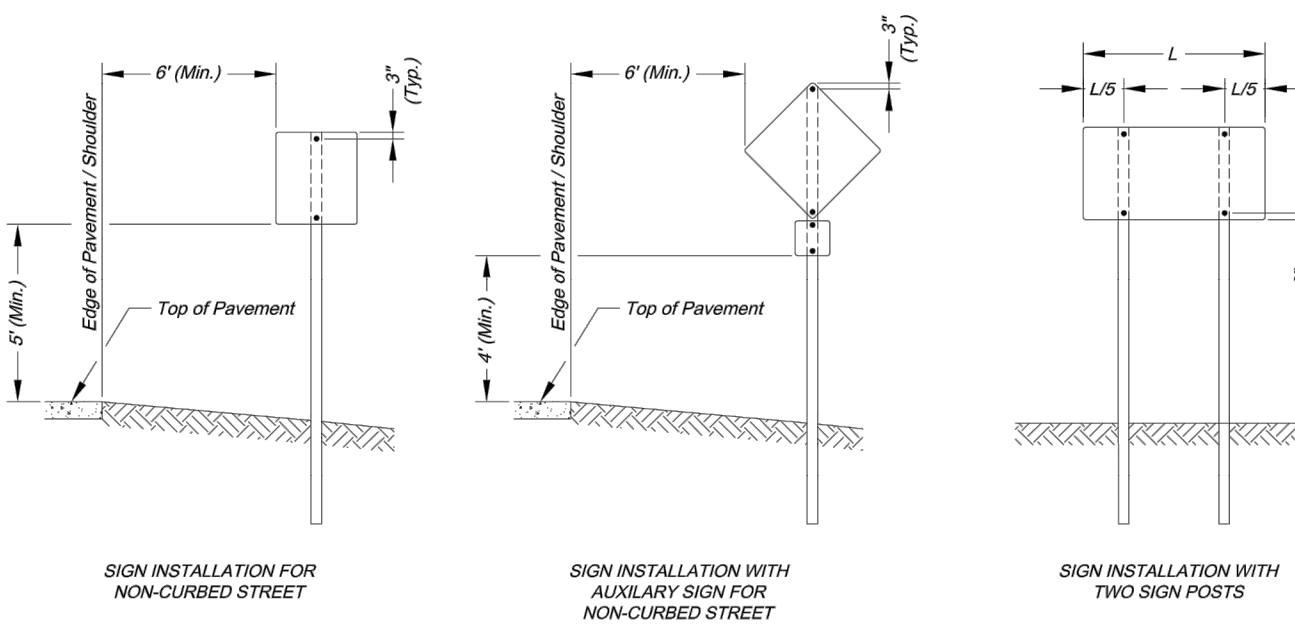
DSN	DWN	CHK
LDO	BKR	LDO
LDO	JT	LDO
LDO	JT	LDO
LDO	JT	LDO

LEON D. OSBOURN
ENGINEER
MO # 021726

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



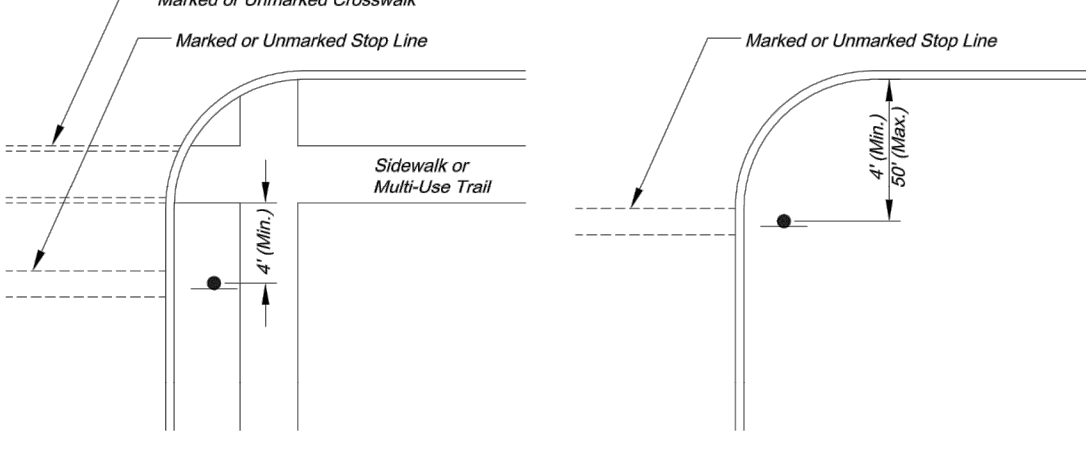
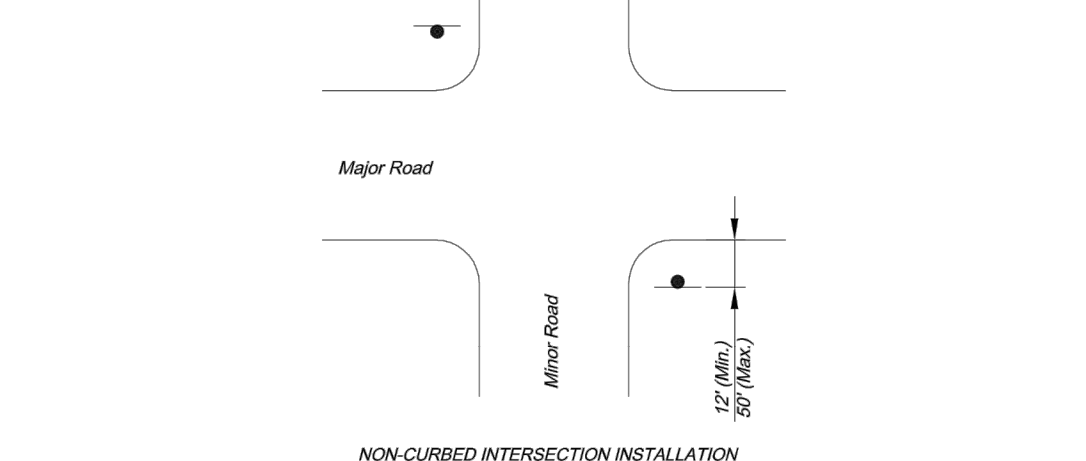
CITY OF LEE'S SUMMIT PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MISSOURI 64441 PHONE (816) 895-1800 FAX (816) 898-1809		CITY OF LEE'S SUMMIT PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MISSOURI 64441 PHONE (816) 895-1800 FAX (816) 898-1809	
PROJECT: ROADWAY MARKING DETAILS SHEET NAME: STANDARD DRAWING PM-1		PROJECT: INTERSECTION MARKING DETAILS SHEET NAME: STANDARD DRAWING PM-2	
Drawn By: AS Checked By: JW Date: 09/09/2009 Project: 1 OF 2 1		Drawn By: AS Checked By: JW Date: 09/09/2009 Project: 2 OF 2 2	
LEON D. OSBOURN ENGINEER MO # 021726		STREETS OF WEST PRYOR NWQ NW PRYOR RD & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI PUBLIC STREET PLANS PAVEMENT MARKING DETAIL SHEET	
2310 N. JACKSON P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 PH. (785) 762-5040 FAX (785) 762-7744 joe@kveg.com www.kveg.com		PROJ. NO. A14-7067-1 DESIGNER LDO DRAWN BY JT/BKR CFN 7067-1PI_DET SHEET 25 REV 0	
KAW VALLEY ENGINEERING KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES IN THE STATE OF MISSOURI EXPIRES 12/31/19		STATE OF MISSOURI LEON D. OSBOURN REGISTERED PROFESSIONAL ENGINEER E-21726	
0		01-11-19	
REV		DATE	
INITIAL		ISSUE	
LDO		JN	
DWN		CHK	



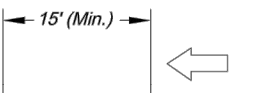
SIGN MOUNTING DETAILS

* 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:
- A 4\"/>

CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64083
PHONE: (816) 969-1800 FAX: (816) 969-1809



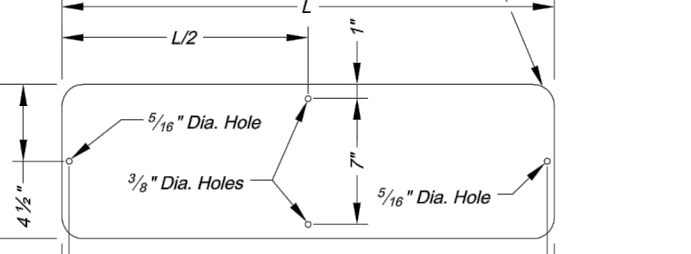
PROJECT:
SHEET NAME:
STANDARD DRAWING SN-1

Drawn By: AS
Checked By: JW
Date: 08/26/2009
Project:
1 OF 3

STANDARD ABBREVIATION LISTS

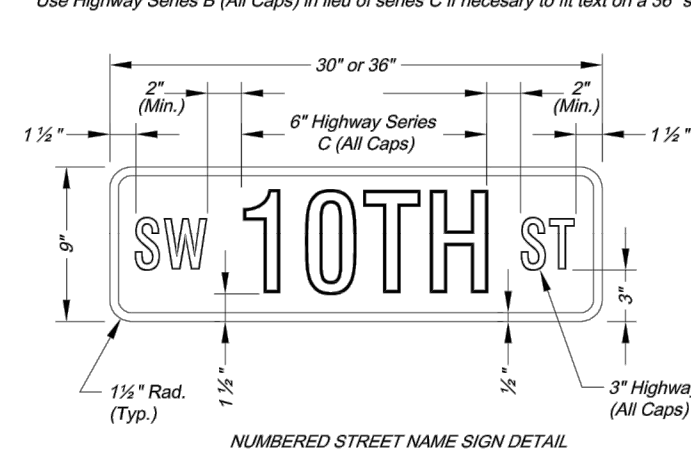
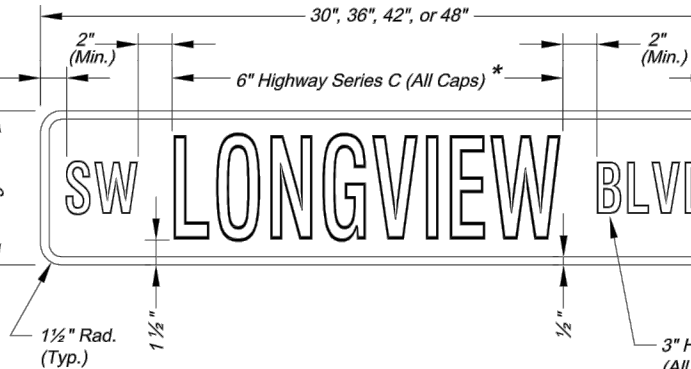
Named Streets	Abbreviation
Avenue	AVE
Boulevard	BLVD
Circle	CIR
Creek	CR
Court	CT
Crossing	XING
Drive	DR
Highway	HWY
Lane	LN
Parkway	PKWY
Place	PL
Road	RD
Street	ST
Terrace	TER
Trail	TRL
Way	WAY

Numbered Streets	Abbreviation
First	ST
Second	ND
Third	RD
Fourth to Tenth	TH



STREET NAME SIGN BLANK DETAILS

For Mounting on Square Steel Posts



STREET NAME SIGN FACE DETAILS

SYMBOL LEGEND

- Work Area
- Sign
- Barricade
- Direction of Travel

- Channelizer
- Arrow Panel
- Flagger

- Direction of Travel

- Direction of Travel

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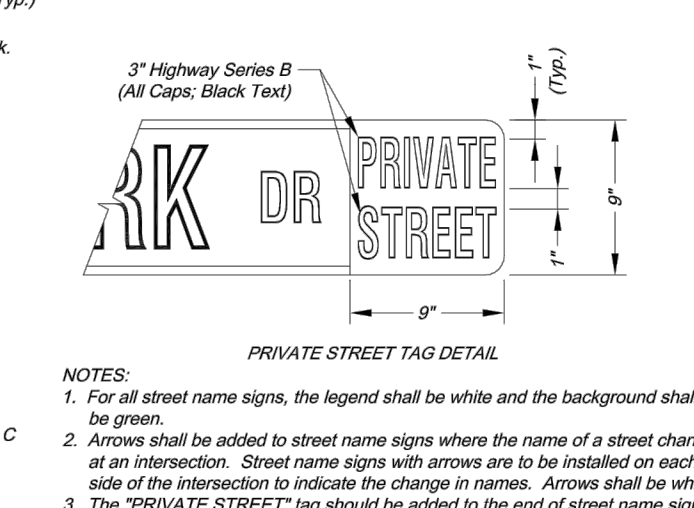
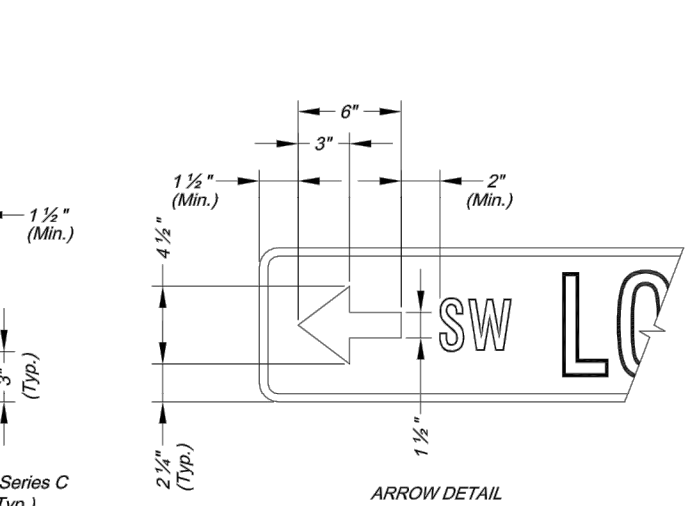
- Direction of Travel

- Direction of Travel

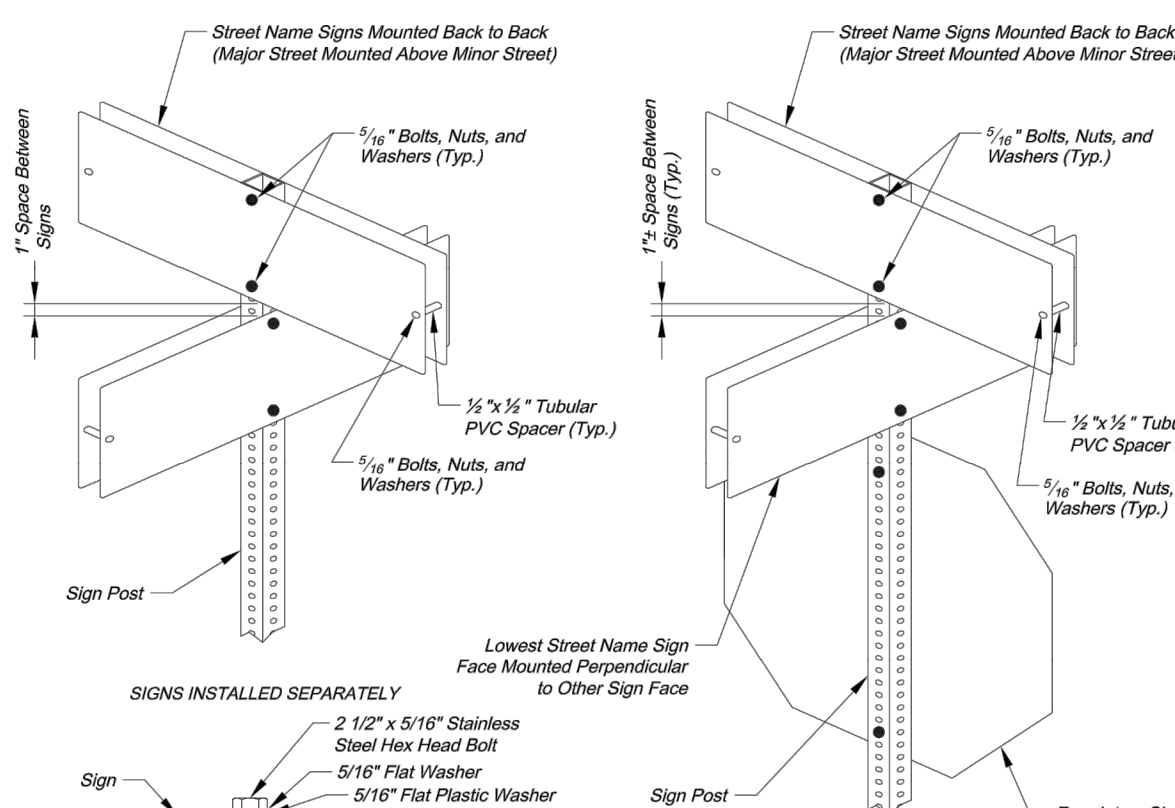
STREET NAME SIGN QUANTITIES

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

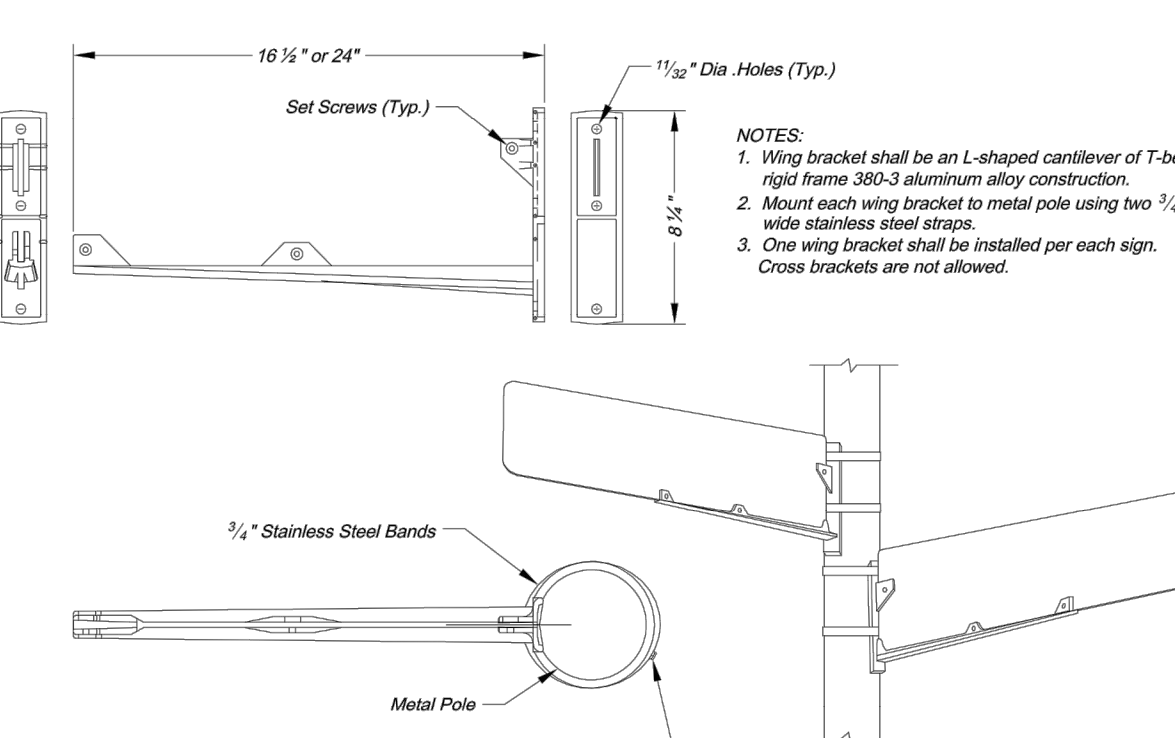
PROJECT SIGN DETAILS



- NOTES:
- For all street name signs, the legend shall be white and the background shall be green.
 - Arrows shall be added to street name signs where the name of a street changes at an intersection. Street name signs with arrows are to be installed on each side of the intersection to indicate the change in names. Arrows shall be white.
 - The "PRIVATE STREET" tag should be added to the end of street name signs to indicate where a street that is outside the right-of-way intersects a public street. The background for the "PRIVATE STREET" tag shall be yellow.



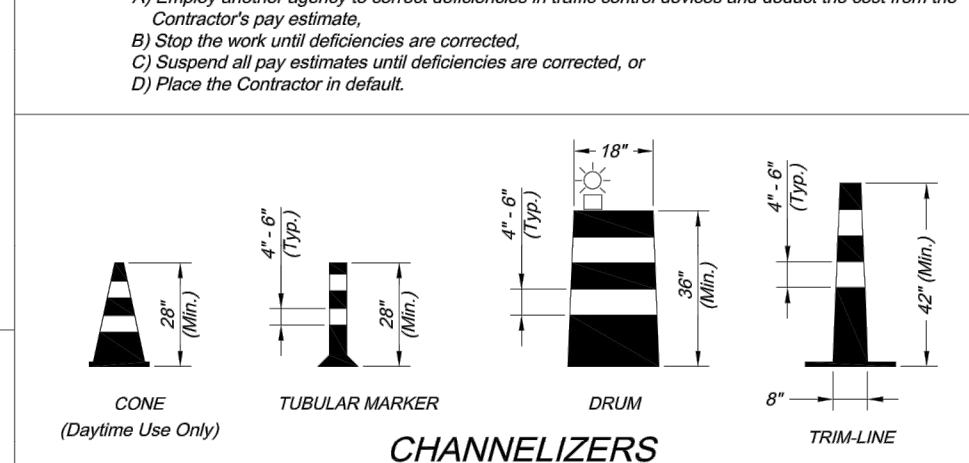
SQUARE STEEL POST MOUNTING DETAILS



WING BRACKET MOUNTING DETAILS

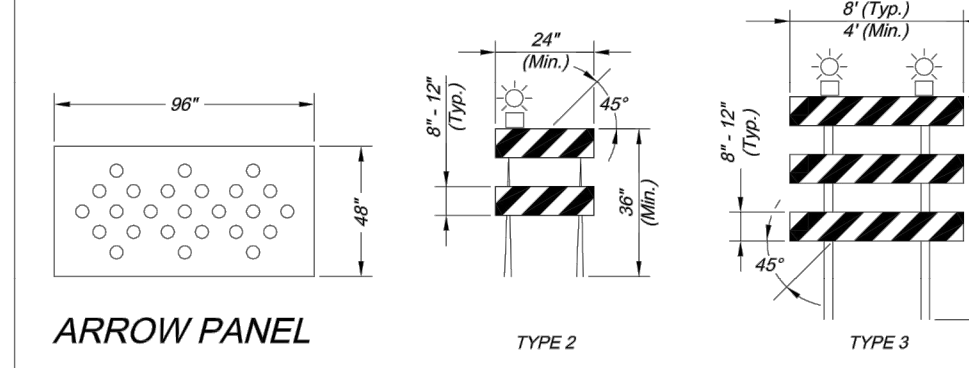
GENERAL NOTES:

- 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.
- 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.
- Flagger shall be used where indicated on the plans, where construction vehicles interact with normal traffic, or where construction activities require 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.
- Trin-fines are the City's preferred channelizing device. Cones may not be used at night.
- Traffic control devices not in use or not applicable shall be either covered or removed from the work area.
- The Contractor shall use barricades, steel plates, or fencing as needed to effectively shield pedestrian and vehicular traffic from exposed objects, excavations, and construction activities.
- Access shall be maintained to all driveways and side streets unless noted otherwise on the plans.
- No street shall be closed without the approval of the City Traffic Engineer. The Contractor shall notify the City Traffic Engineer at least 7 days in advance of any street closure. If a detour route around the closure is to be provided, all detour signing shall be as shown on a plan approved by the City Traffic Engineer.
- Construction vehicles parked along streets shall be located within the work area (traffic control) or where otherwise normally permitted. Construction materials, including traffic control and vehicles shall not restrict sight distance for vehicles exiting at streets or drives.
- Construction materials shall be kept off of sidewalks, consolidated in one location within City right-of-way, and removed daily unless otherwise approved by the Inspector. Dirt, mud, and other construction debris on streets and sidewalks shall be removed immediately.
- The Contractor shall not perform any work that will restrict vehicular traffic in any way between the hours of 7:00 a.m. and 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. "Narrow Lanes" sign shall be installed in advance of a lane width reduction to less than 11 feet.
- All edge drop-offs of more than 2 inches and less than 4 inches should be protected by a wedge or barrier and all edge drop-offs greater than 4 inches shall have edge protection (see Traffic Control Specifications for edge treatment requirements).
- The "Workers" symbolic sign (MUTCD No. W21-1a) may be used instead of the "Road Work Ahead" sign for work with a duration of 12 hours or less. The "End Road Work" sign is not required to be installed after the "Workers" sign.
- No traffic sign shall be altered or modified in any way without a plan approved by the City Traffic Engineer.
- The Contractor shall be responsible for maintaining all traffic control devices on an around-the-clock basis, whether or not work is actively being pursued and any deficiencies noted shall be corrected immediately.
- The traffic control requirements shown on these plans are minimum requirements only and do not attempt to address in depth the variety of situations that may occur once construction has started. In no way do the requirements shown on these plans relieve the Contractor of his responsibility for selecting the proper traffic control devices and implementation procedures that will assure the safety of drivers, pedestrians, and workers at all times.
- Should the contractor fail to enforce the traffic control plan or fail to clean, replace or otherwise maintain the traffic control devices when directed to do so by the City Traffic Engineer or representative, the City may take one or more of the following actions:
 - 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.



BARRICADES

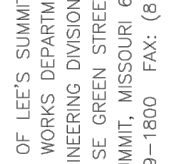
ARROW PANEL

ARROW PANEL

ARROW PANEL

ARROW PANEL

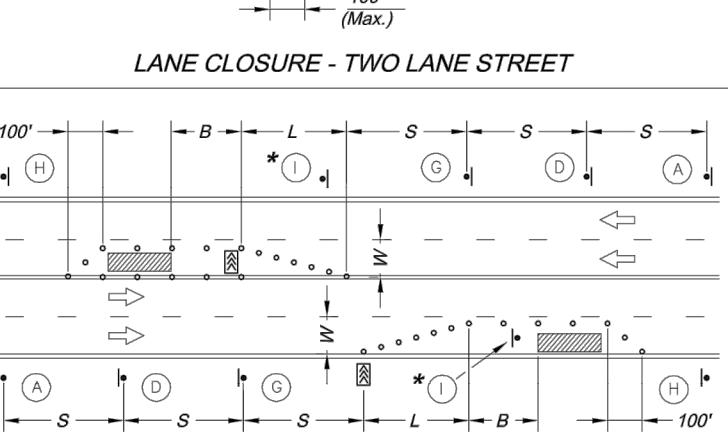
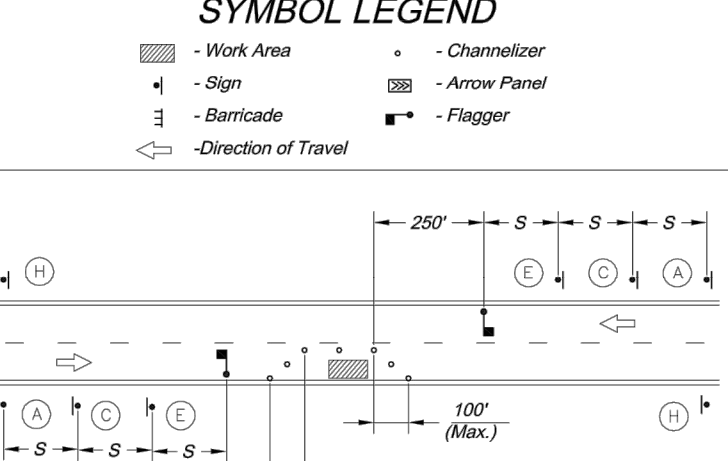
CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64083
PHONE: (816) 969-1800 FAX: (816) 969-1809



PROJECT:
SHEET NAME:
STANDARD DRAWING SN-2

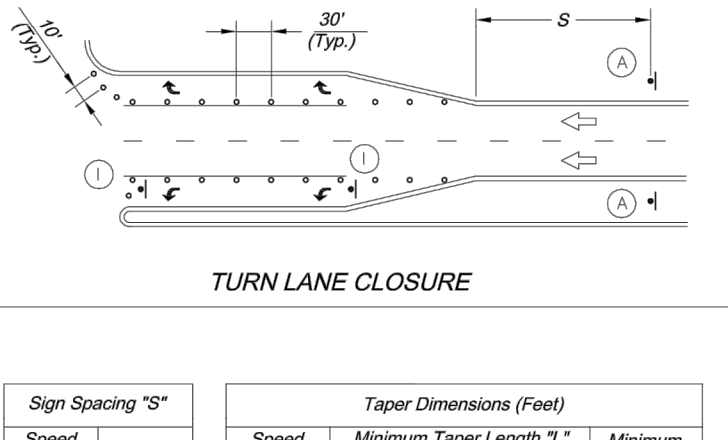
Drawn By: AS
Checked By: JW
Date: 08/26/2009
Project:
2 OF 3

2



LANE CLOSURE - FOUR LANE STREET

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



TURN LANE CLOSURE

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

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

Speed Limit (mph)	Length (ft)
25	35
30	35
35	35
40	120
45	170

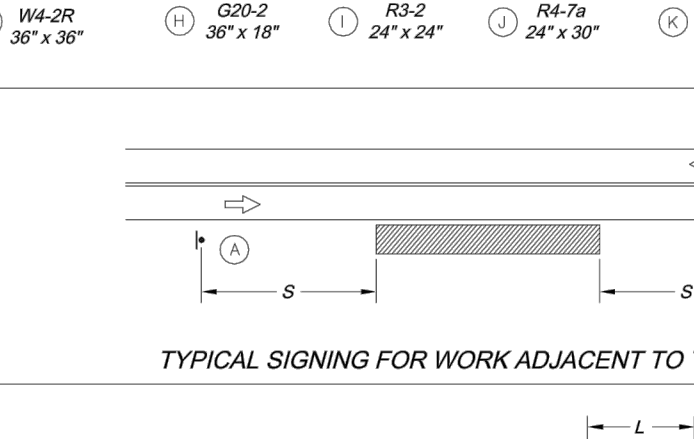
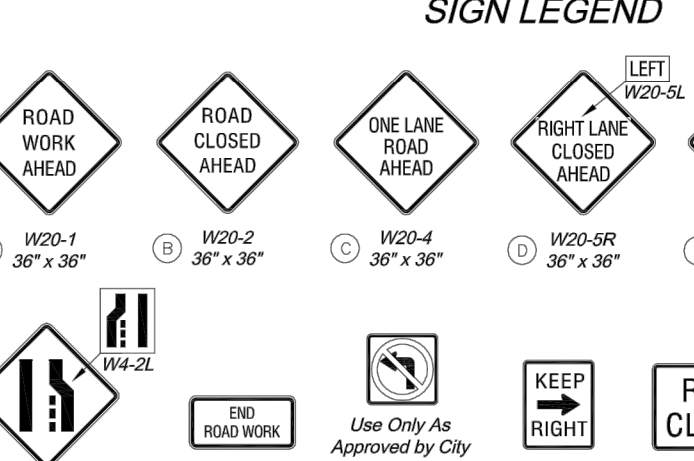
Speed Limit (mph)	Length (ft)
25	35
30	35
35	35
40	120
45	170

Speed Limit (mph)	Length (ft)
25	35
30	35
35	35
40	120
45	170

STANDARD DRAWING SN-2

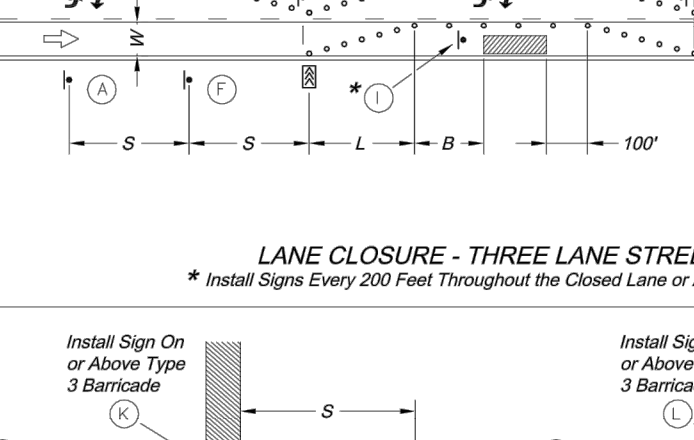
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2 OF 3

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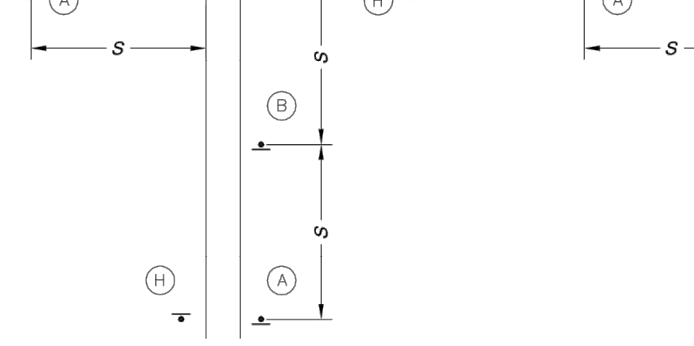
LANE CLOSURE - THREE LANE STREET

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



TYPICAL STREET CLOSURE

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



TYPICAL STREET CLOSURE

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

Drawn By: AS
Checked By: JW
Date: 08/26/2009
Project:
2 OF 3

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PROJECT:
SHEET NAME:
STANDARD DRAWING SN-3

Drawn By: AS
Checked By: JW
Date: 08/26/2009
Project:
3 OF 3

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Date: 08/26/2009
Project:
3 OF 3

PROJECT:
SHEET NAME:
STANDARD DRAWING SN-3

Drawn By: AS
Checked By: JW
Date: 08/26/2009
Project:
3 OF 3

PROJECT:
SHEET NAME:
STANDARD DRAWING SN-3

Drawn By: AS
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3 OF 3

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Project:
3 OF 3

PROJECT:
SHEET NAME:
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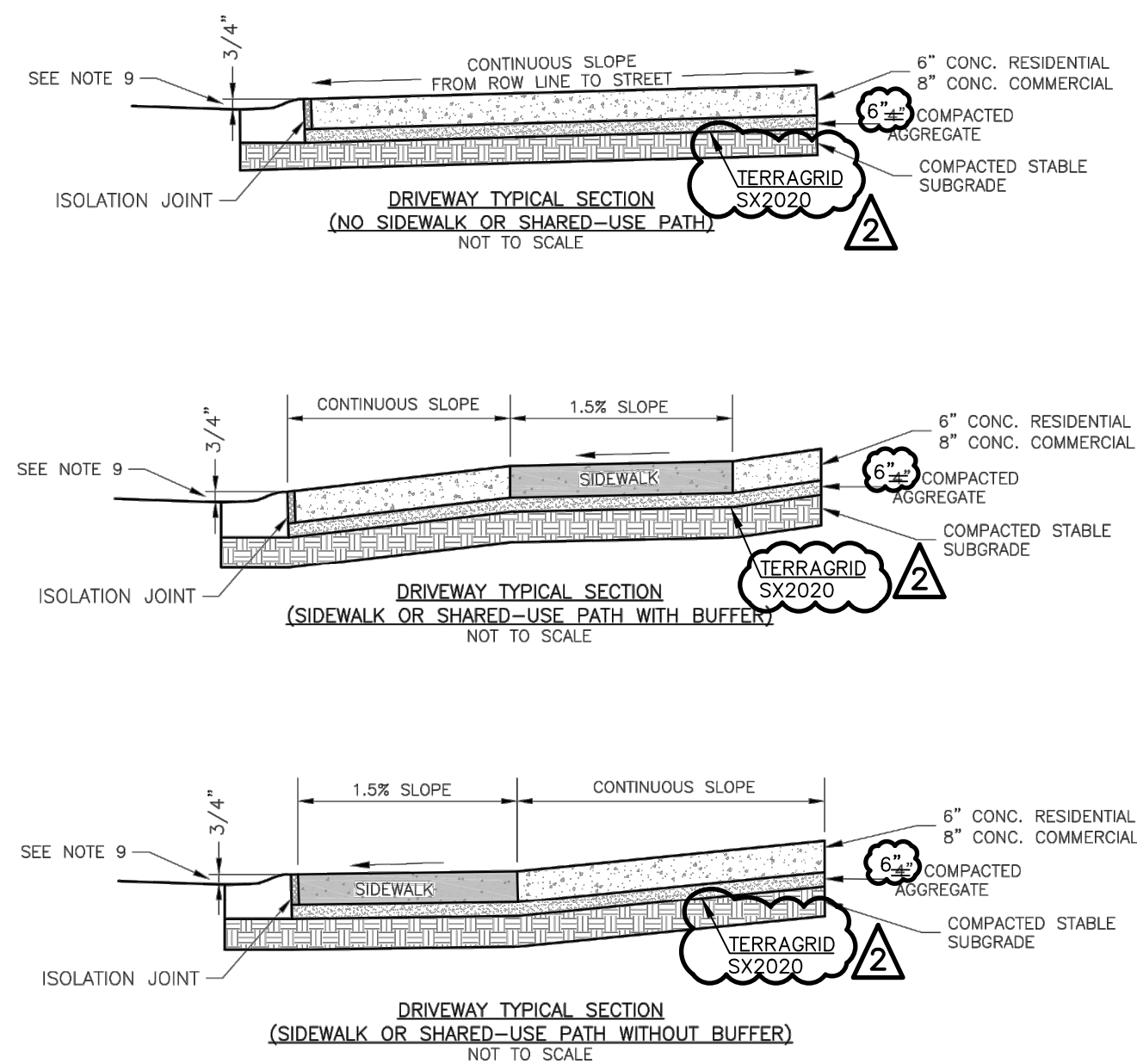
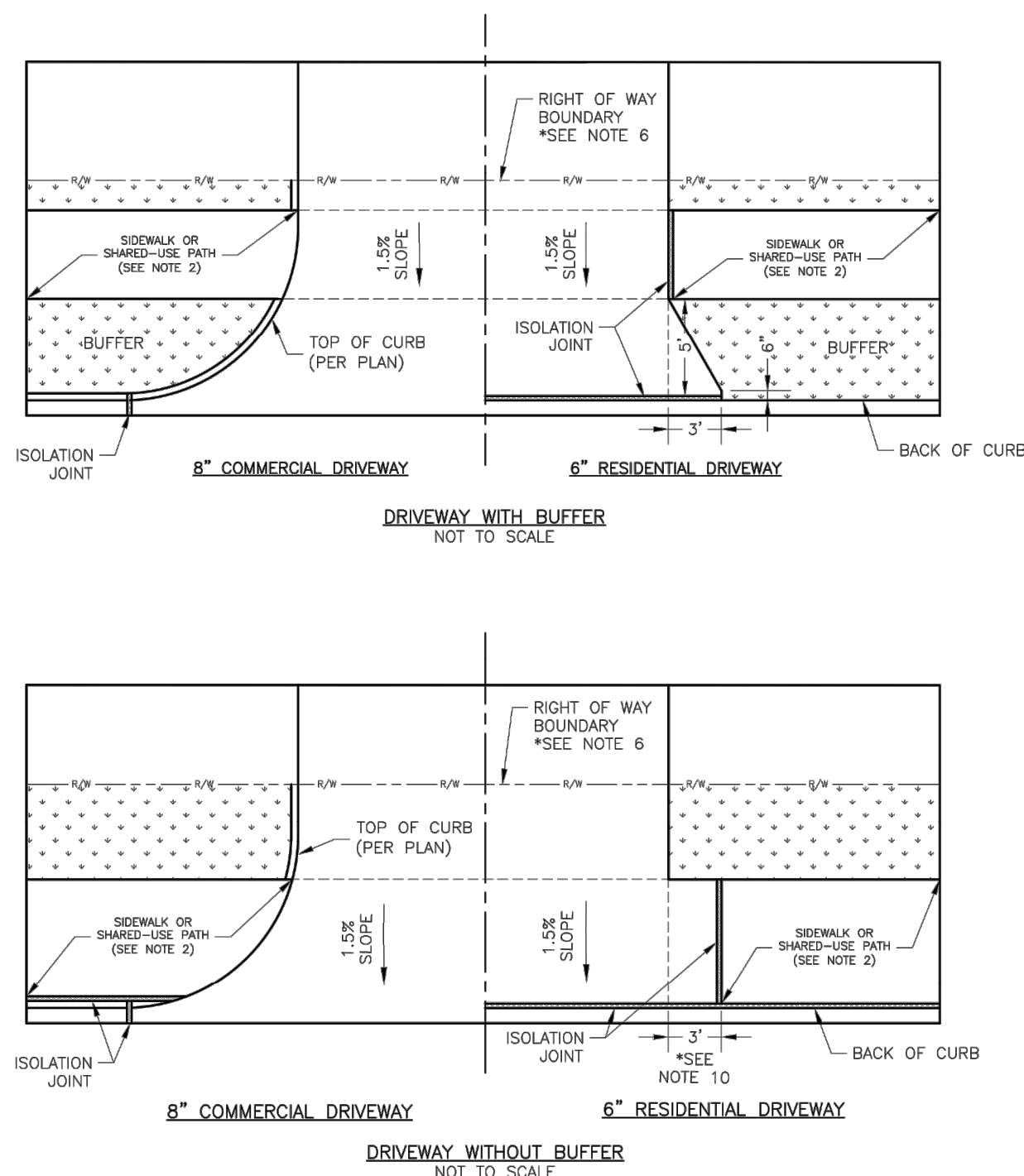
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Project:
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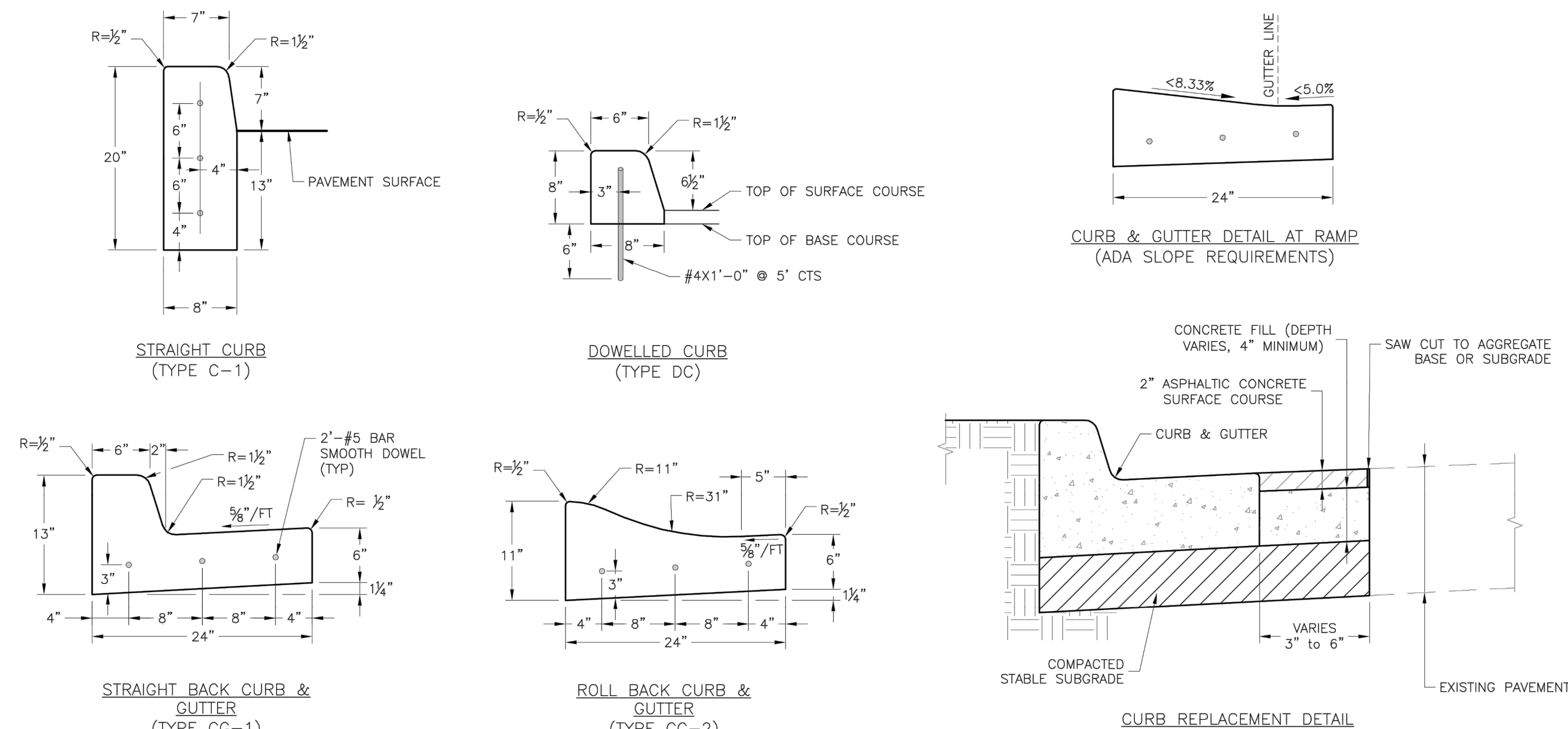
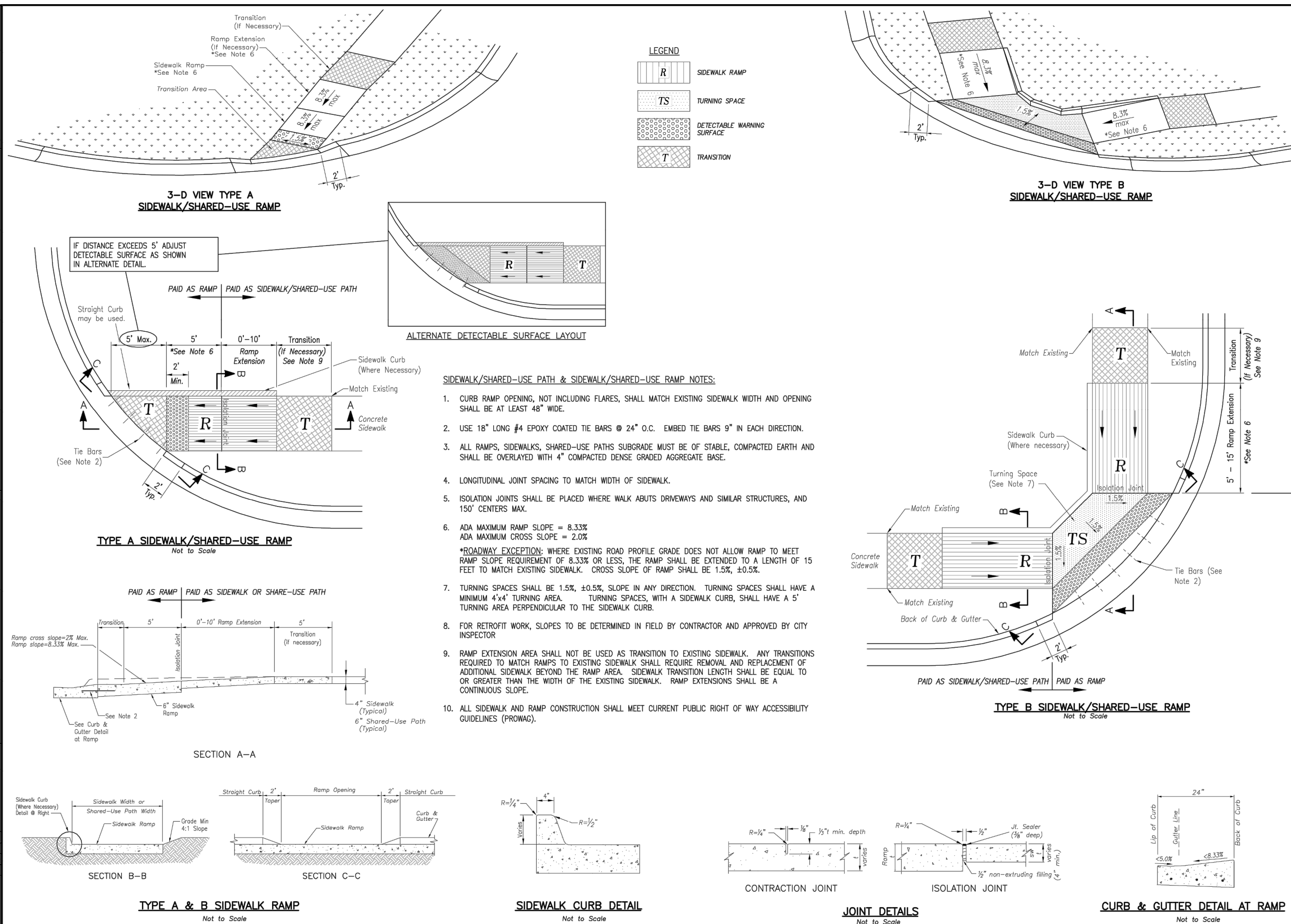
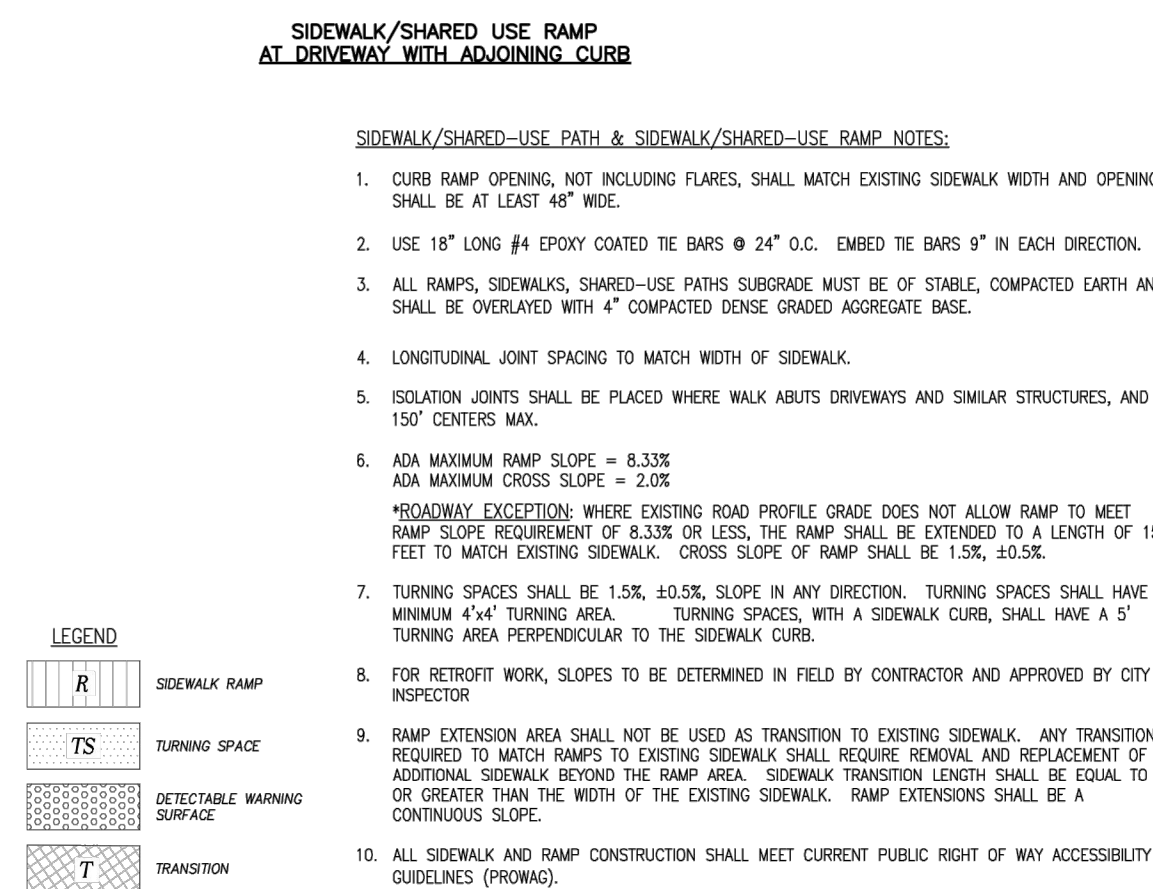
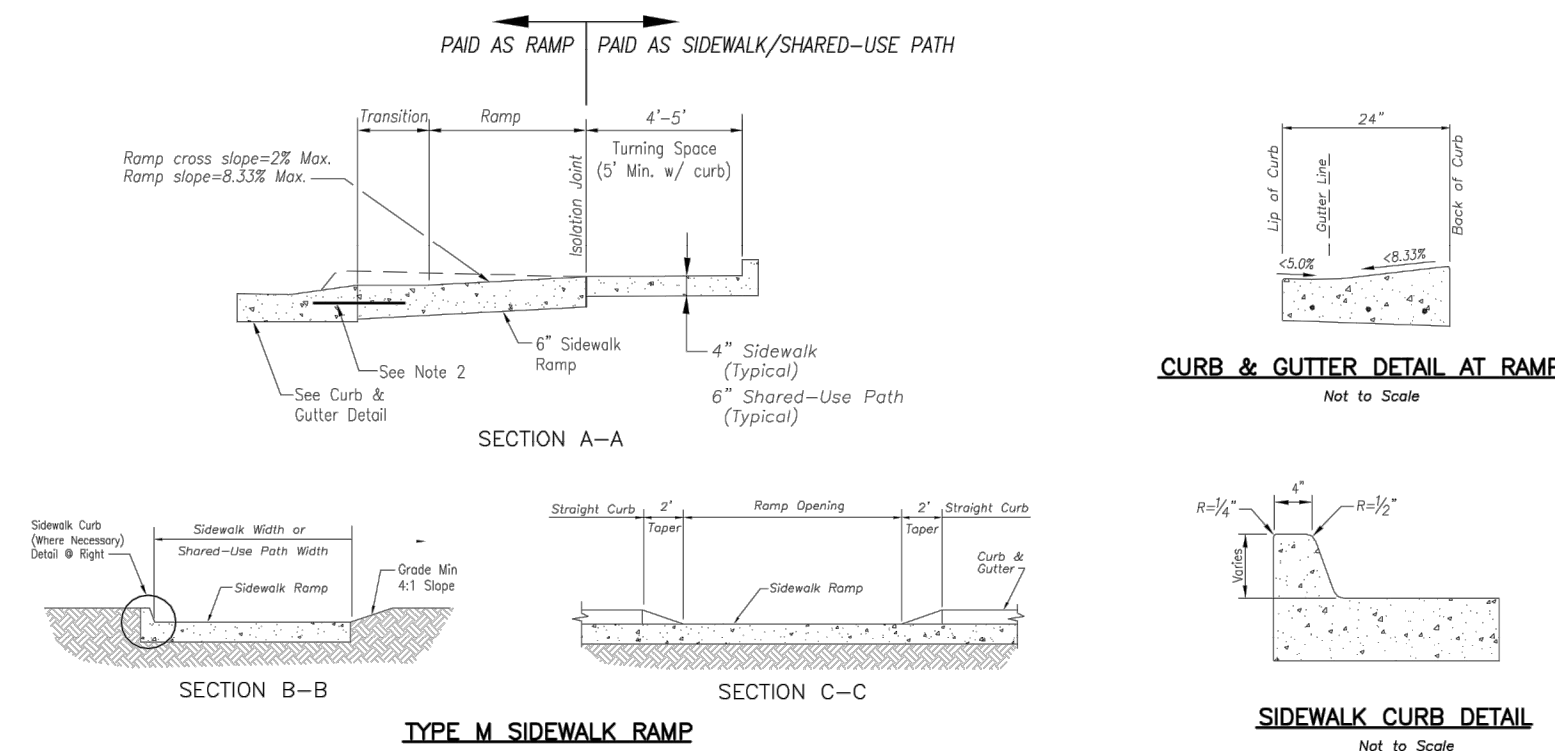
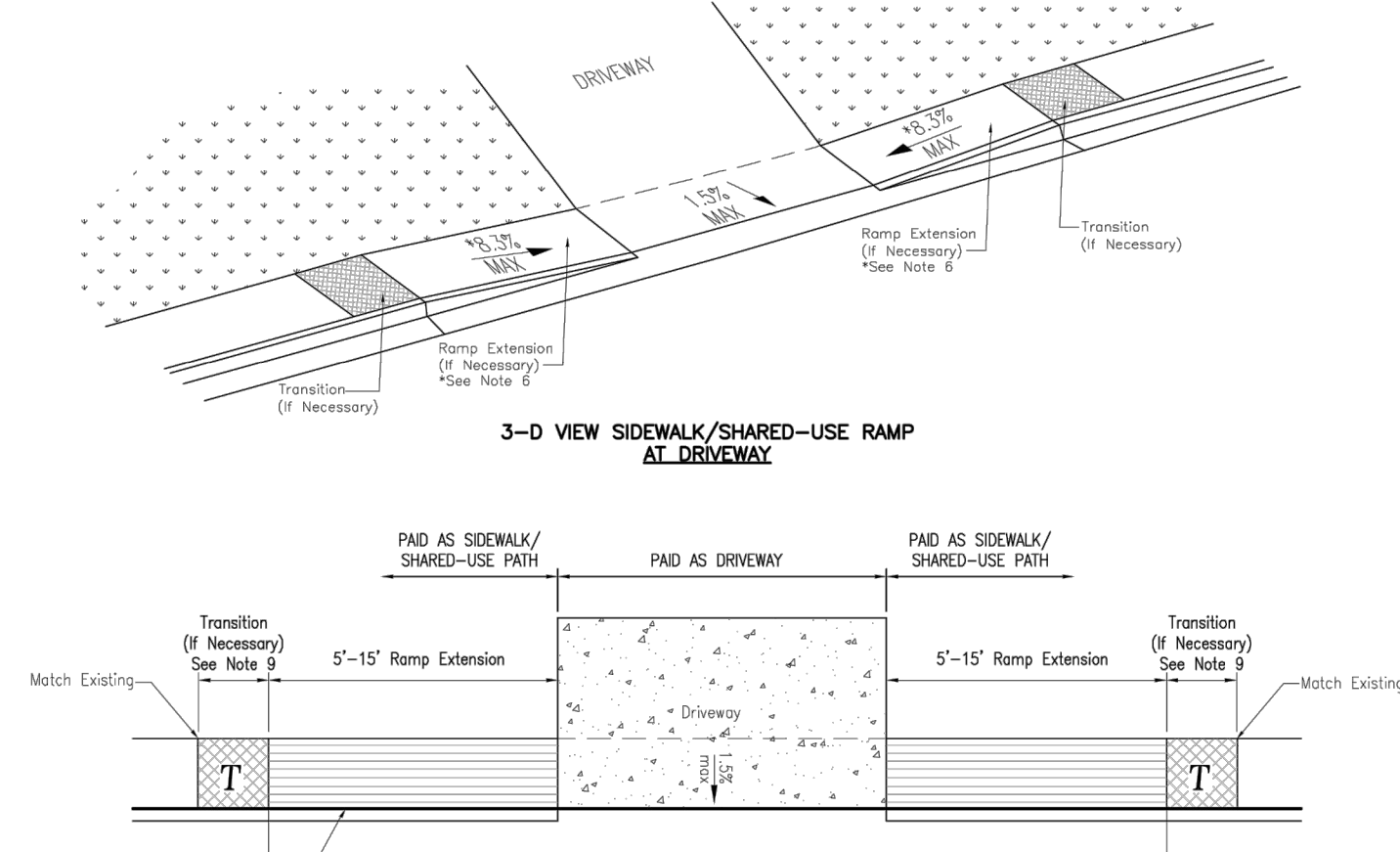
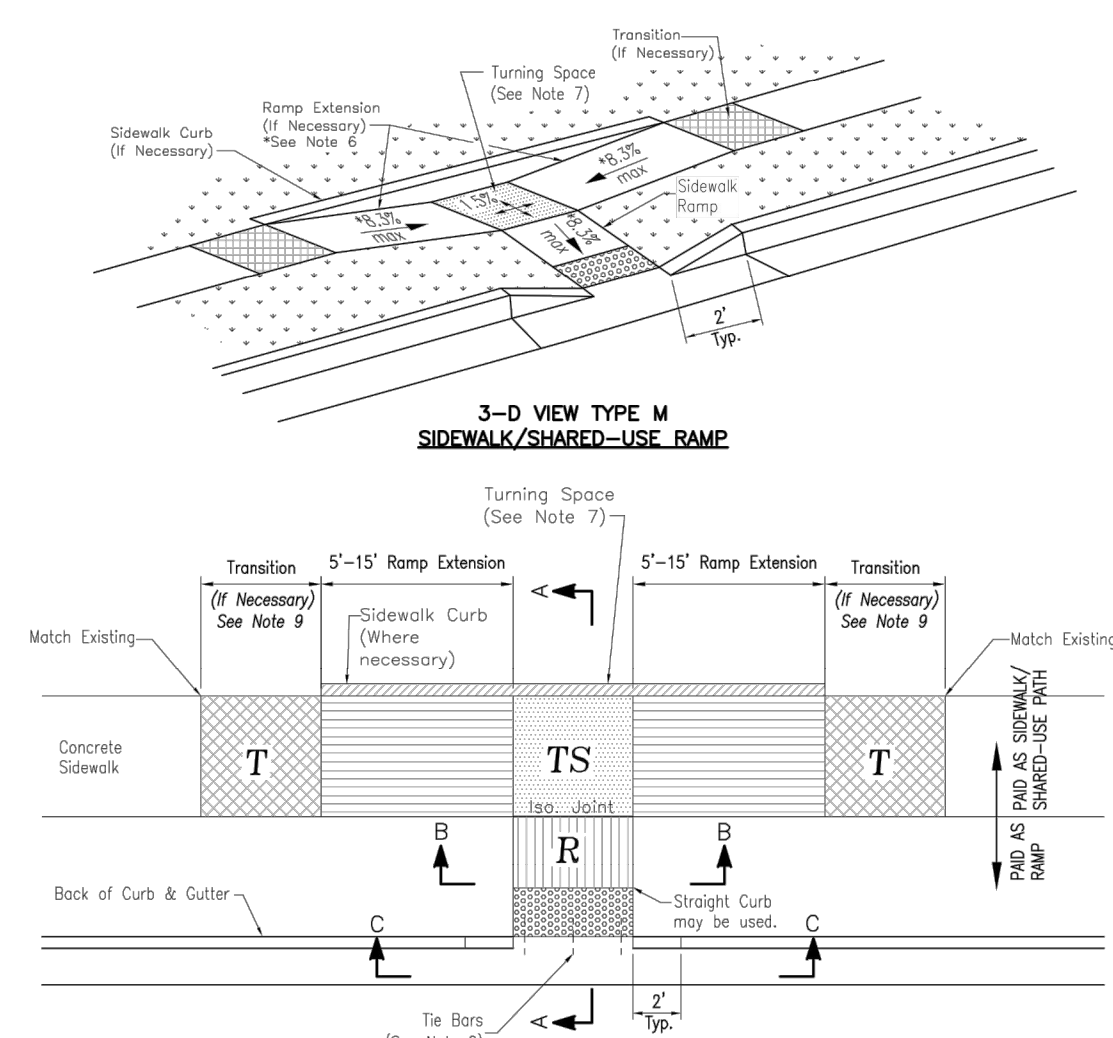
PROJECT:
SHEET NAME:
STANDARD DRAWING SN-3

Drawn By: AS
Checked By: JW



GENERAL NOTES:

1. SUBGRADE SHALL BE STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED BASE. ALL SURFACE APPROACHES SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG) FOR SLOPE REQUIREMENTS WHEN SIDEWALK IS REQUIRED (SEE ADA RAMP RETROFIT DETAIL GEN-36). SIDEWALK/SHARED USE PATH RAMP AT DRIVEWAY DETAILS.
2. JOINT AT BACK OF CURB LINE SHALL BE AN ISOLATION JOINT FOR RESIDENTIAL DRIVEWAYS.
3. KCMXB 4K CONCRETE MIX IS REQUIRED FOR ALL CURBS.
4. COMMERCIAL DRIVEWAYS, IN THE PUBLIC RIGHT OF WAY, SHALL BE KCMXB 4K CONCRETE MIX.
5. RESIDENTIAL DRIVEWAYS, IN THE PUBLIC RIGHT OF WAY, SHALL BE KCMXB 4K CONCRETE MIX. COMMERCIAL MIXES TO BE APPROVED BY CITY INSPECTOR.
6. A JOINT MUST BE INSTALLED AT THE RIGHT OF WAY BOUNDARY FOR PROPERTY DELINEATION.
7. WITHIN PUBLIC RIGHT OF WAY, CONCRETE SHALL BE CONFORMAL TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.
8. 3/4" FROM TOP OF CURB TO FLOWLINE AT DRIVEWAY (TYPE CG-1 CURB ONLY). MUST MAINTAIN ORIGINAL FLOWLINE OF CURB.
9. KCMXB ADJOINING CURB SHALL BE 6" THICK, EXTENDING 3' FROM THE DRIVEWAY.
10. MAXIMUM WIDTH OF A RESIDENTIAL DRIVEWAY SHALL BE 12' TO THE DRIVEWAY CURB LINE.



GENERAL NOTES

1. ¾" ISOLATION JOINTS WITH 3 (2"-#5 BAR) SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWEL BARS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
2. 3" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APPROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
3. CONCRETE FILL SHALL HAVE UNIFORM AND SMOOTH FINISH
4. KCMBB 4K CONCRETE SHALL BE USED FOR ALL CURB.
5. ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2205.2.
6. CURBS FOR NEW STREETS SHALL BE BUILT ON ASPHALT OR AGGREGATE BASE AS SHOWN IN TYPICAL SECTION DETAIL.
7. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE

	STANDARD DETAILS CITY OF LEE'S SUMMIT, MO LEE'S SUMMIT, JACKSON COUNTY, MO	 LEE'S SUMMIT MISSOURI
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ADA RAMP RETROFIT DETAIL		PUBLIC WORKS ENGINEERING DIVISION 220 S. GREEN STREET LITTLE ROCK, AR 72202	
2	7-5-19	REVISED PER CITY COMMENTS	LDO JT LDO
1	5-16-19	REVISED PER CITY COMMENTS	LDO JT LDO
0	01-11-19	INITIAL ISSUE	LDO JT LDO
REV	DATE	DESCRIPTION	DSN DWN CHK

ENGINEER
MO # 021726

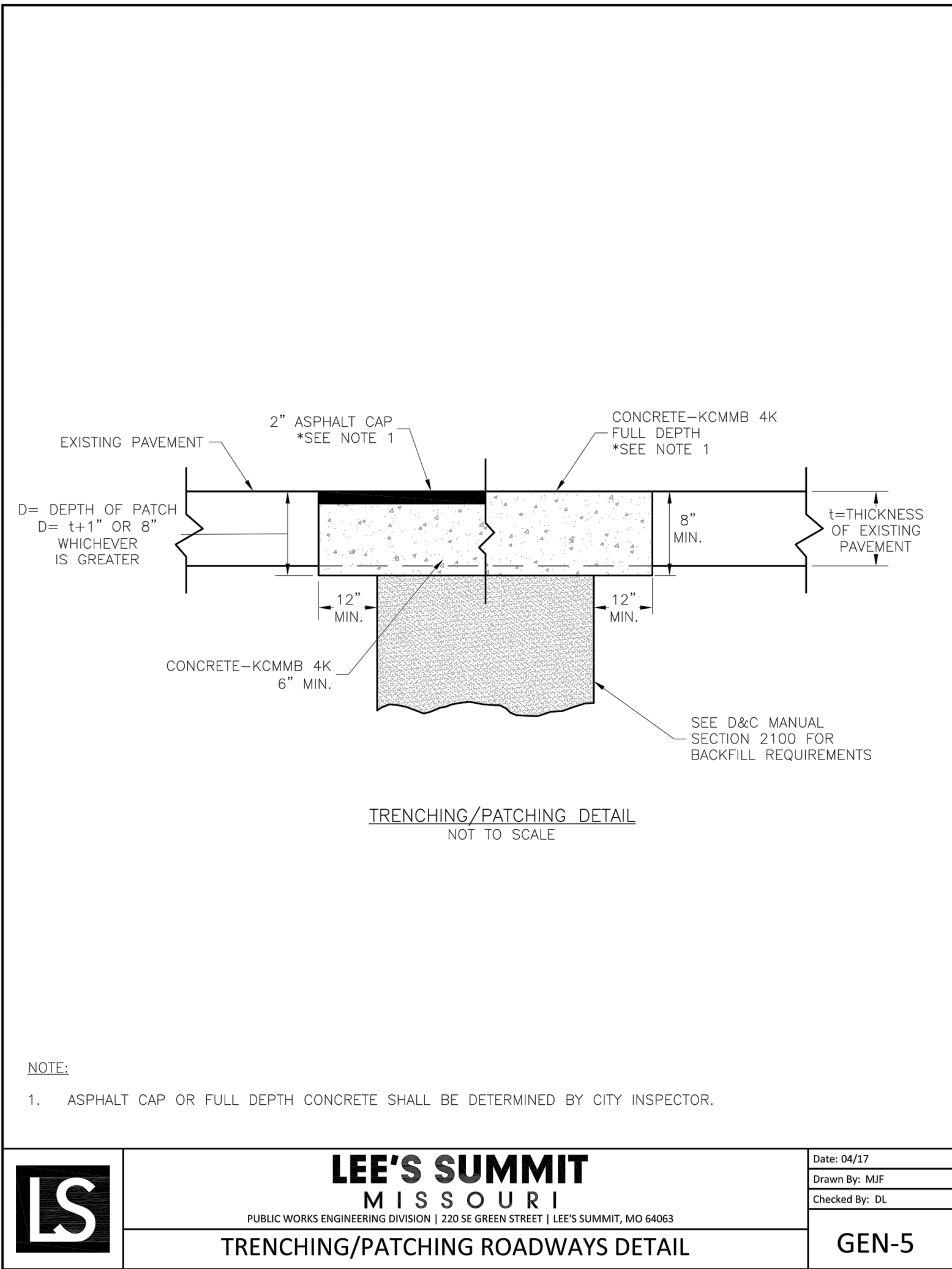
ENGINEERING

P.O. BOX 1304
JASAS 66441
K (785) 762-7744
www.lweng.com

P.O. OFFER ENGINEERING
THORITY # 000842.

STANDARD DETAILS CITY OF LEE'S SUMMIT, MO LEE'S SUMMIT, JACKSON COUNTY, MO	LS LEE'S SUMMIT MISSOURI
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4	SHEET	27	REV	2	STREETS OF WEST PRYOR NWQ NW PRYOR RD & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI	 KAW VALLEY ENG	2319 N. JACKSON JEFFERSON CITY, MO 64501 PH. (785) 462-5040 FAX (785) 462-5041 jce@kveeng.com www.kawvalleyeng.com	KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO PROVIDE PROFESSIONAL ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY #00000001, WHICH EXPIRES 12/31/19	PUBLIC WORKS ENGINEERING DIVISION 120 S. GREEN STREET LEE'S SUMMIT, MO 64063	CURB & GUTTER DETAIL



LS

LEE'S SUMMIT

MISSOURI

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

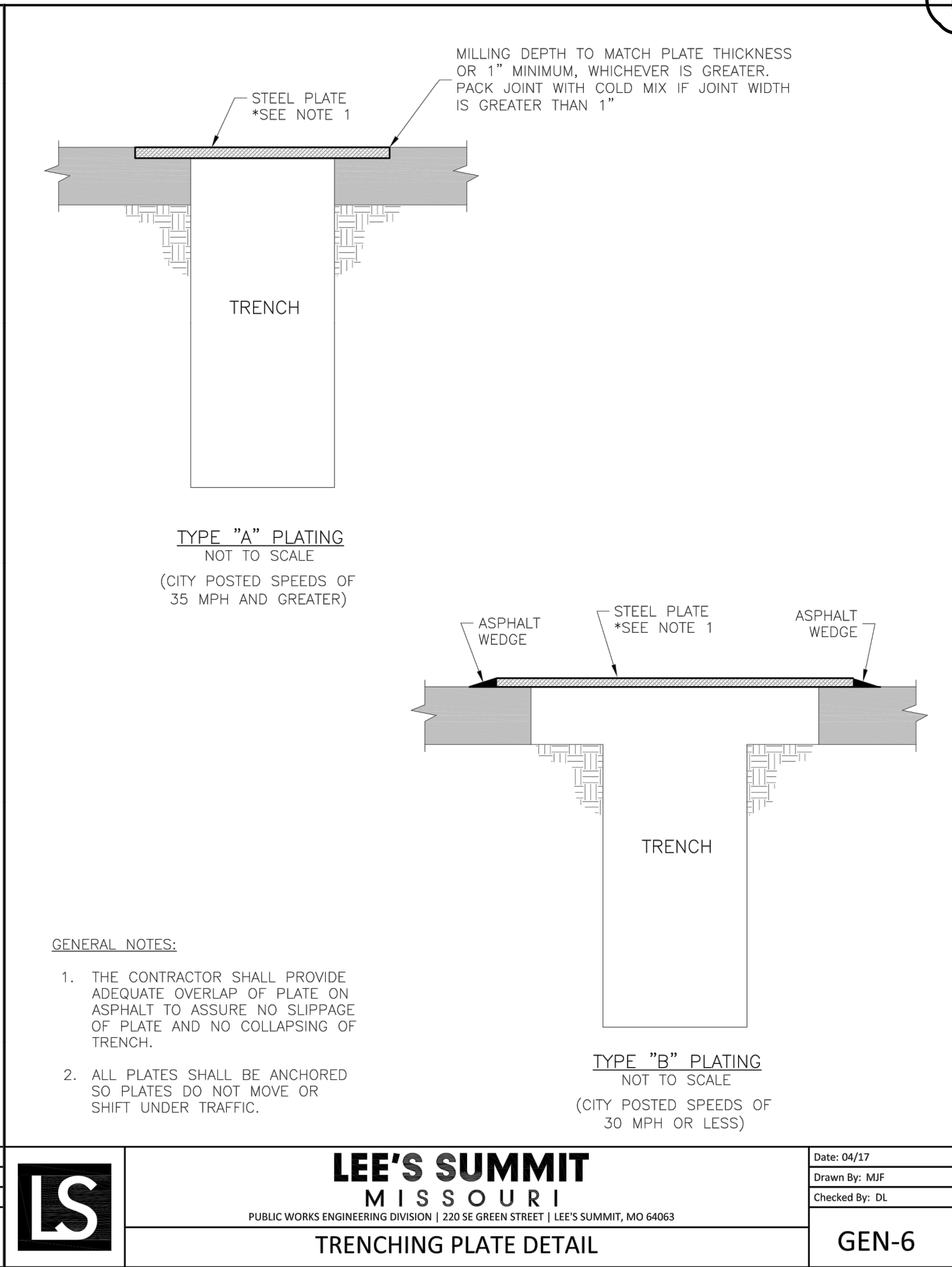
Date: 04/17

Drawn By: MJF

Checked By: DL

GEN-5

TRENCHING/PATCHING ROADWAYS DETAIL



LS

LEE'S SUMMIT

MISSOURI

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

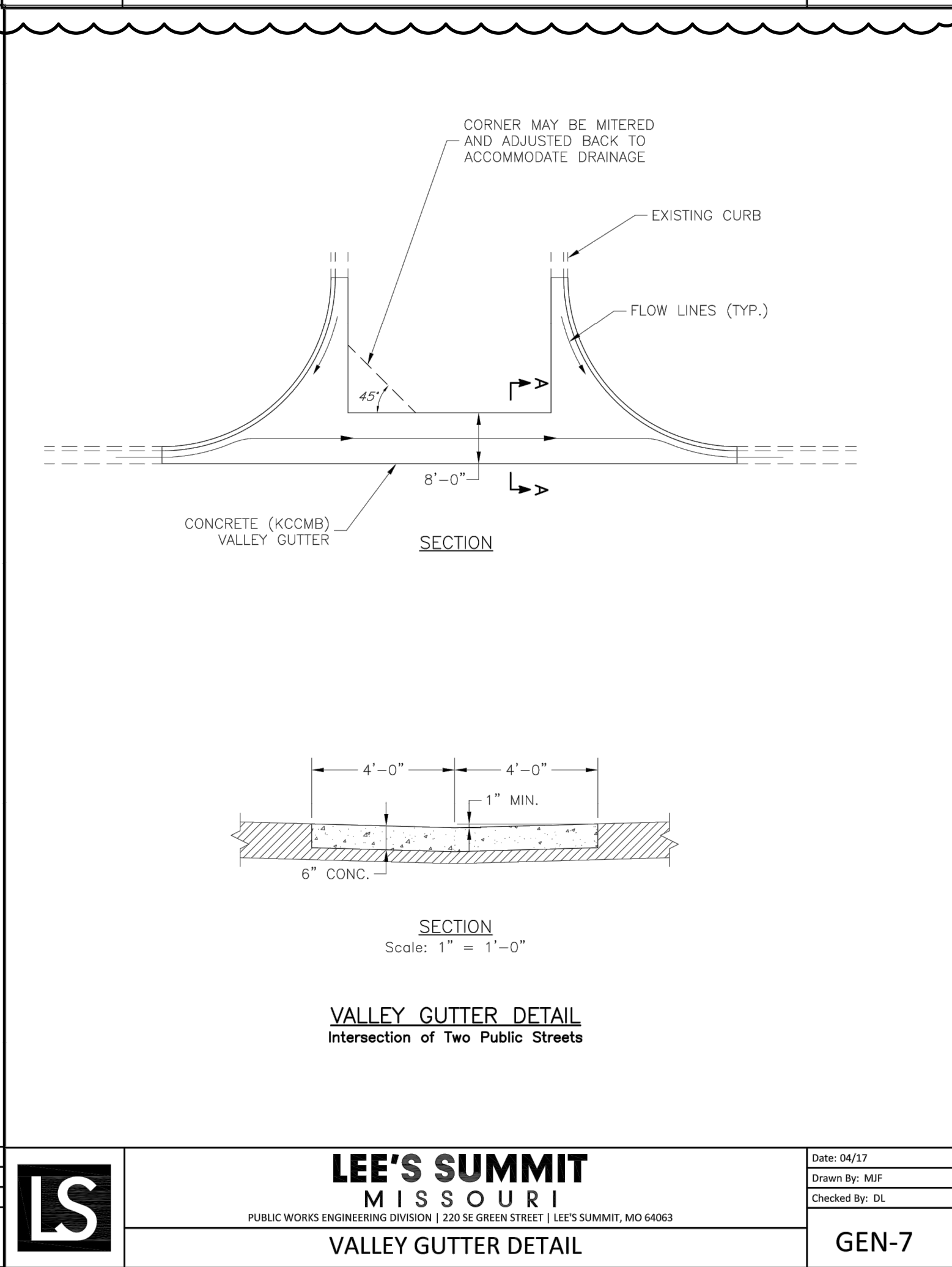
Date: 04/17

Drawn By: MJF

Checked By: DL

GEN-6

TRENCHING PLATE DETAIL



LS

LEE'S SUMMIT

MISSOURI

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

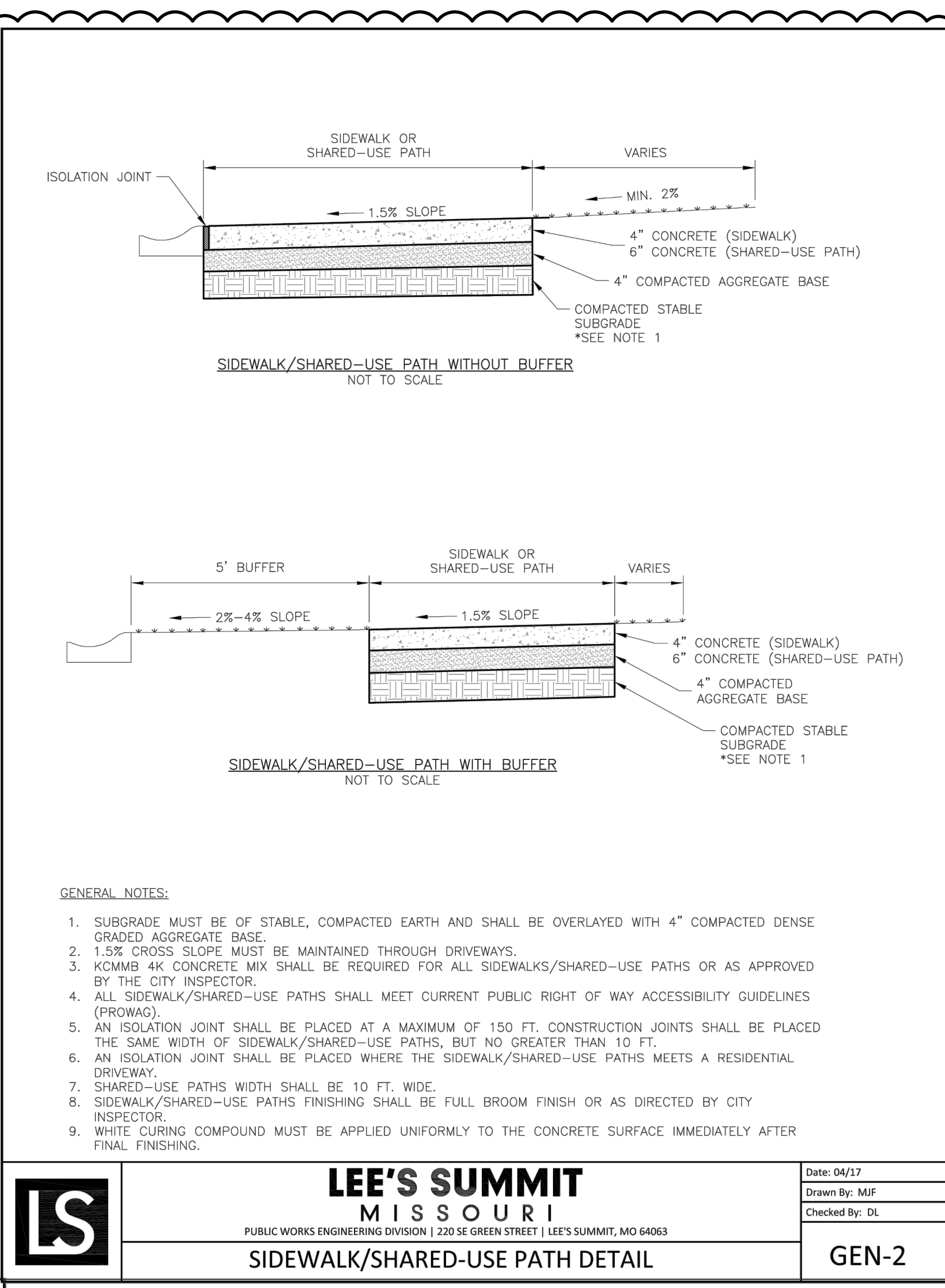
Date: 04/17

Drawn By: MJF

Checked By: DL

GEN-7

VALLEY GUTTER DETAIL



LS

LEE'S SUMMIT

MISSOURI

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

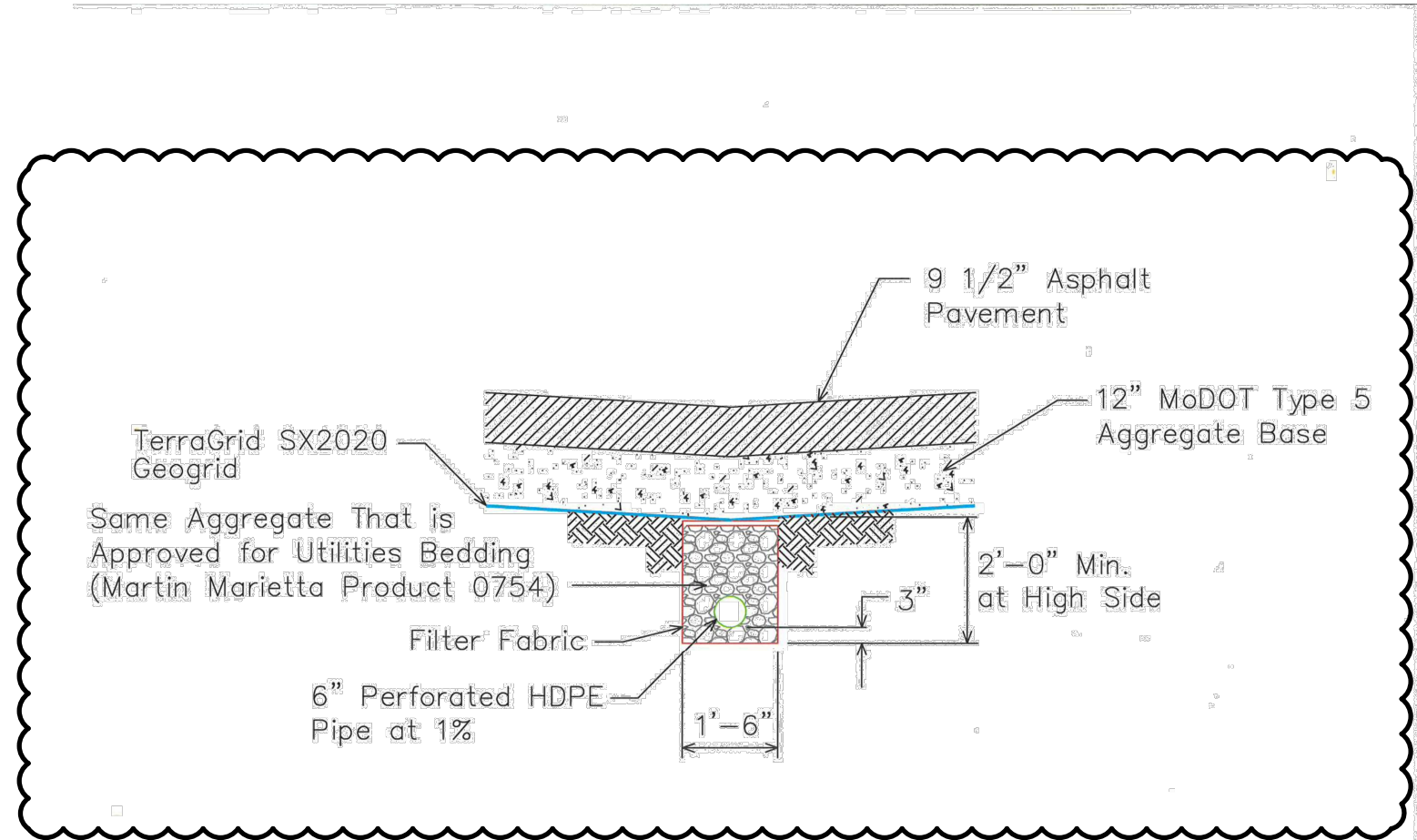
Date: 04/17

Drawn By: MJF

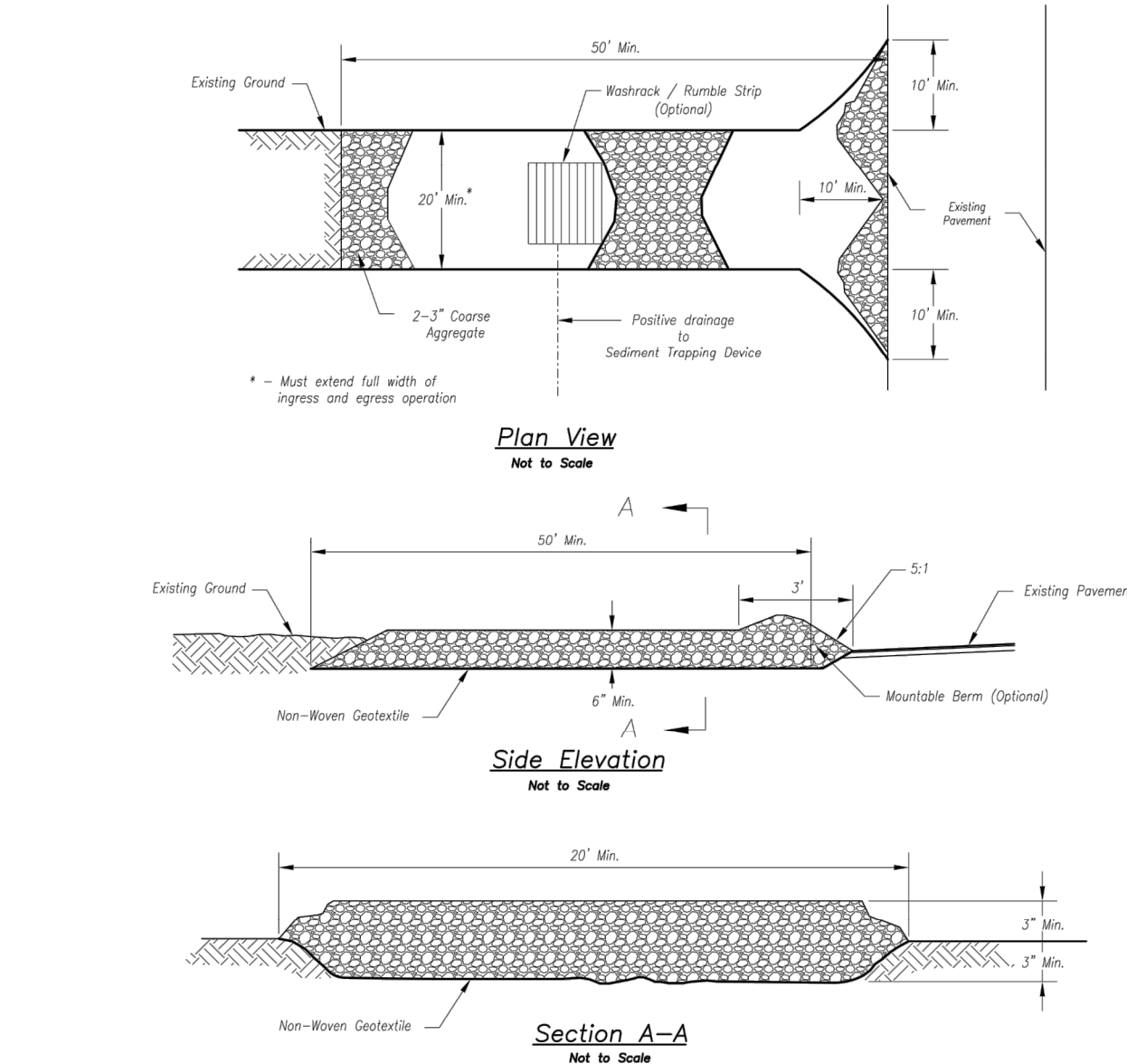
Checked By: DL

GEN-2

SIDEWALK/SHARED-USE PATH DETAIL



2



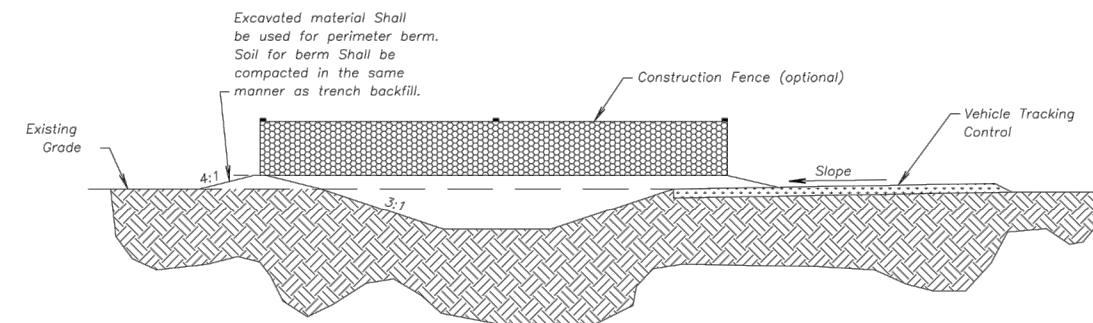
Notes for Construction Entrance:

1. Avoid locating on steep slopes, at curves on public roads, or downhill or disturbed areas.
2. Remove all vegetation and other unsuitable material from the foundation area, grade, and crown for positive drainage.
3. If slope towards the public road exceeds 2%, construct a 6- to 8-inch high ridge with 30:1V side slopes across the foundation approximately 15 feet from the edge of the public road to divert runoff from it.
4. Install pipe under the entrance if needed to maintain drainage ditches along public roads.
5. Place stone to dimensions and grade as shown on plans. Leave surface sloped for drainage.
6. Divert all surface runoff and drainage from the entrance to a sediment control device.
7. If conditions warrant, place geotextile fabric on the graded foundation to improve stability.

Maintenance for Construction Entrance:

1. Washage entrance as needed to maintain function and integrity of installation. Top dress with clean aggregate as needed.

CONSTRUCTION ENTRANCE



CONCRETE WASHOUT

AMERICAN PUBLIC WORKS ASSOCIATION



KANSAS CITY
METRO CHAPTER

CONSTRUCTION ENTRANCE
AND CONCRETE WASHOUT

STANDARD DRAWING
NUMBER ESC-01
ADOPTED:
10/24/2016

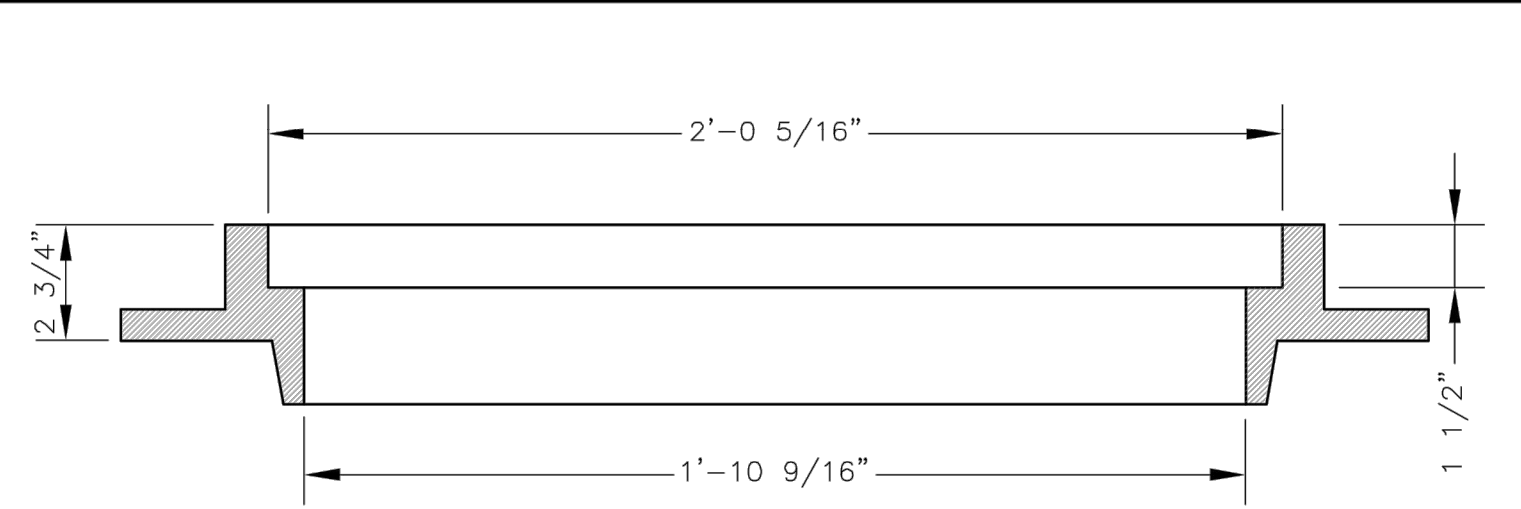
Construction Entrance modified from 2015 Overland Park Standard Details for Erosion and Sediment Control. Concrete Washout modified from 2009 City of Great Bend Standard Drawings.

Notes for Concrete Washout:

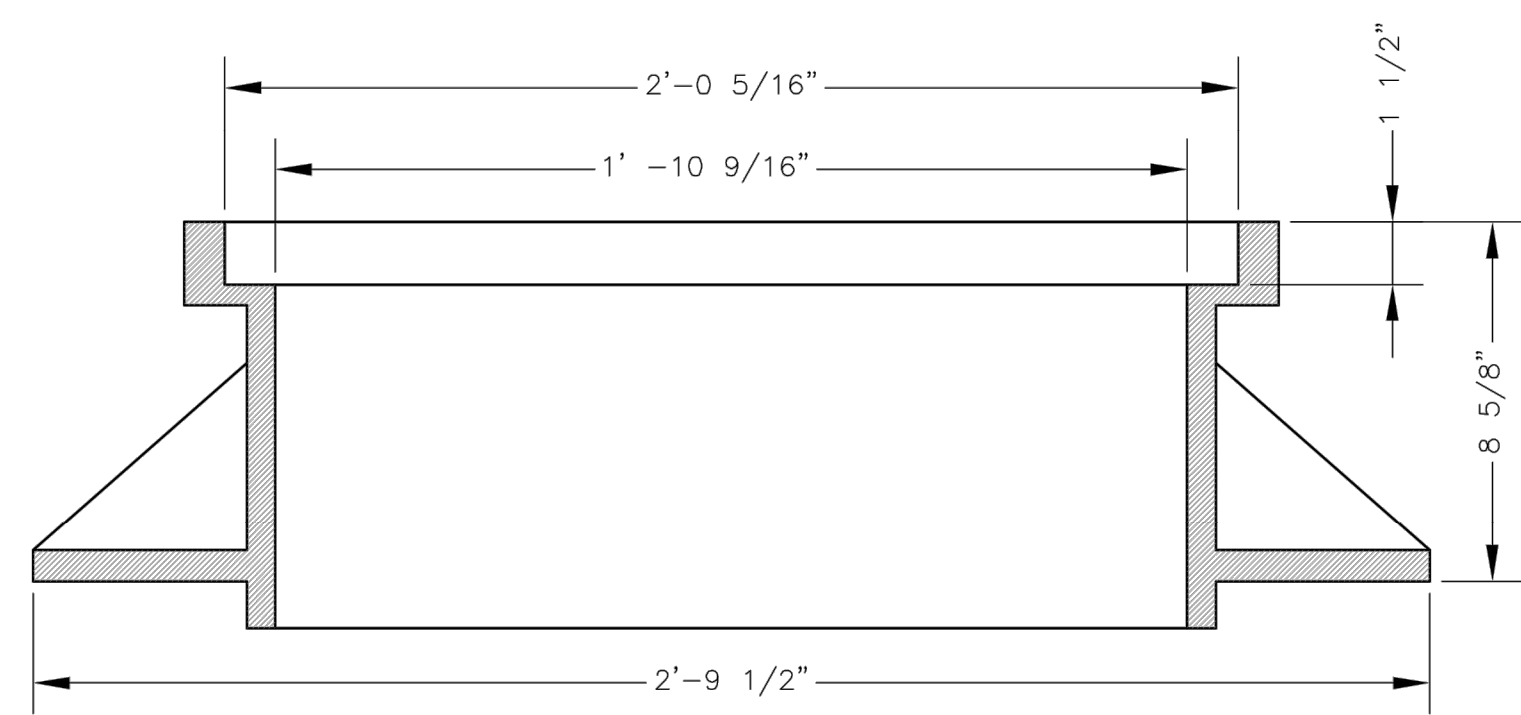
1. Concrete washout areas shall be installed prior to any concrete placement on site.
2. Concrete washout areas shall include a flat subgrade pit sized relative to the amount of concrete to be placed on site. The slope leading out of the subgrade pit shall be 3:1. The vehicle tracking pad shall be sloped towards the concrete washout area.
3. Vehicle tracking control is required at the access point to all concrete washout areas.
4. Signs shall be placed at the construction site entrance, washout area and elsewhere as necessary to clearly indicate the location(s) of the concrete washout area(s) to operators of concrete truck and pump rigs.
5. A one-place impervious liner may be required along the bottom and sides of the subgrade pit in sandy or gravelly soils.

Maintenance for Concrete Washout:

1. Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.
2. Concrete washout areas shall be enlarged as necessary to maintain capacity for washed concrete.
3. Concrete washout water, wasted places of concrete and all other debris in the subgrade pit shall be transported from the job site in a water-tight container and disposed of properly.
4. Concrete washout areas shall remain in place until all concrete for the project is placed.
5. When concrete washout areas are removed, excavations shall be filled with suitable compacted backfill and topped, any disturbed areas associated with the installation, maintenance, and/or removal of the concrete washout areas shall be stabilized.



SLAB MANHOLE FRAME
LEE'S SUMMIT PART NO.: LS103A
MINIMUM WEIGHT = 145 LB



STANDARD 24" MANHOLE FRAME
LEE'S SUMMIT PART NO.: LS101A
MINIMUM WEIGHT = 250 LB

*COVER AND FRAME MODEL INFORMATION REFER TO THE STORMWATER APPROVED PRODUCTS LIST.

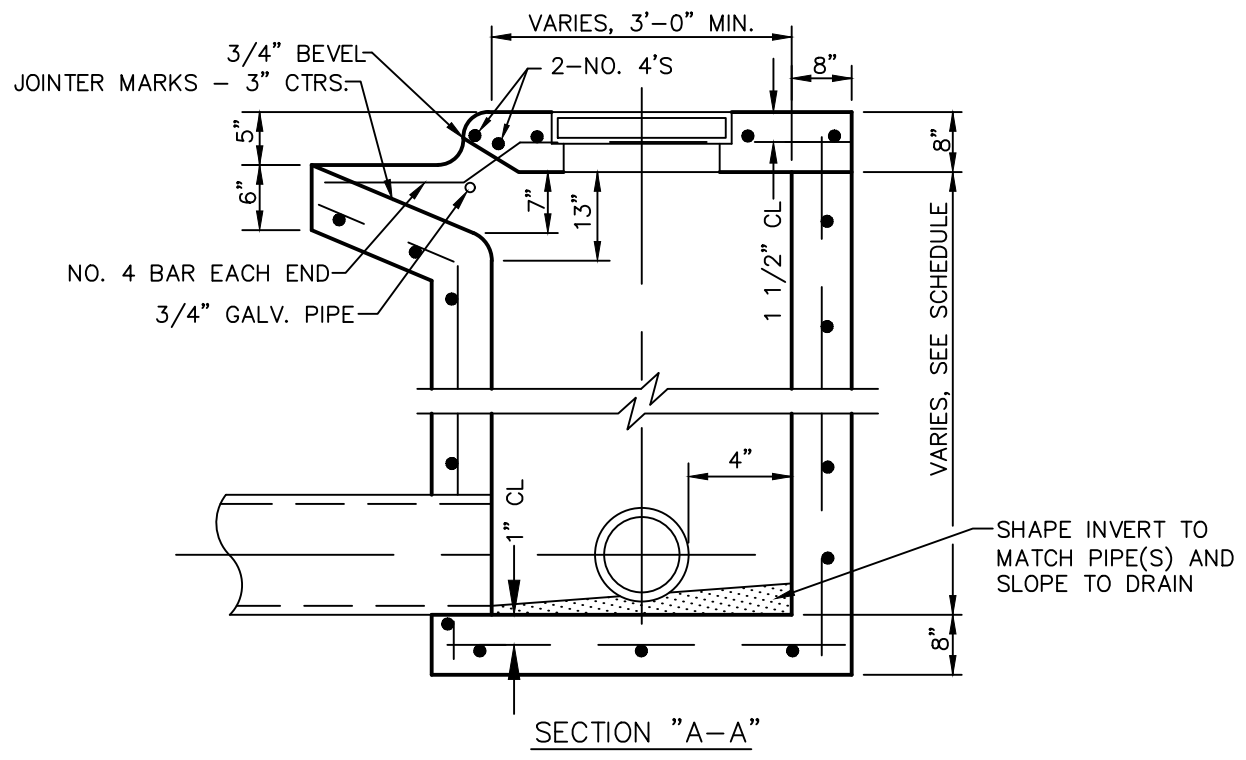
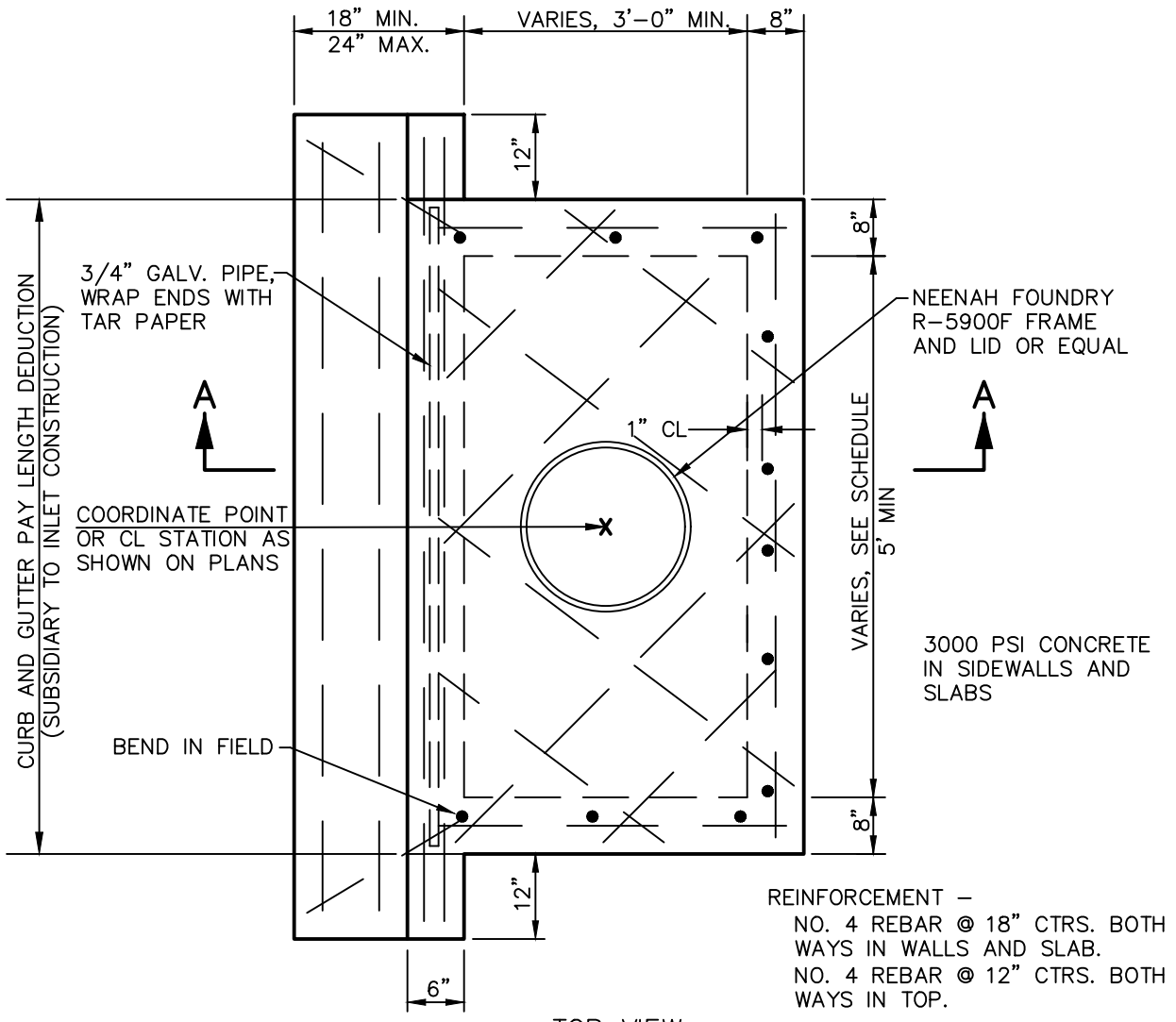


LEE'S SUMMIT
MISSOURI

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

STORM MANHOLE FRAME DETAIL

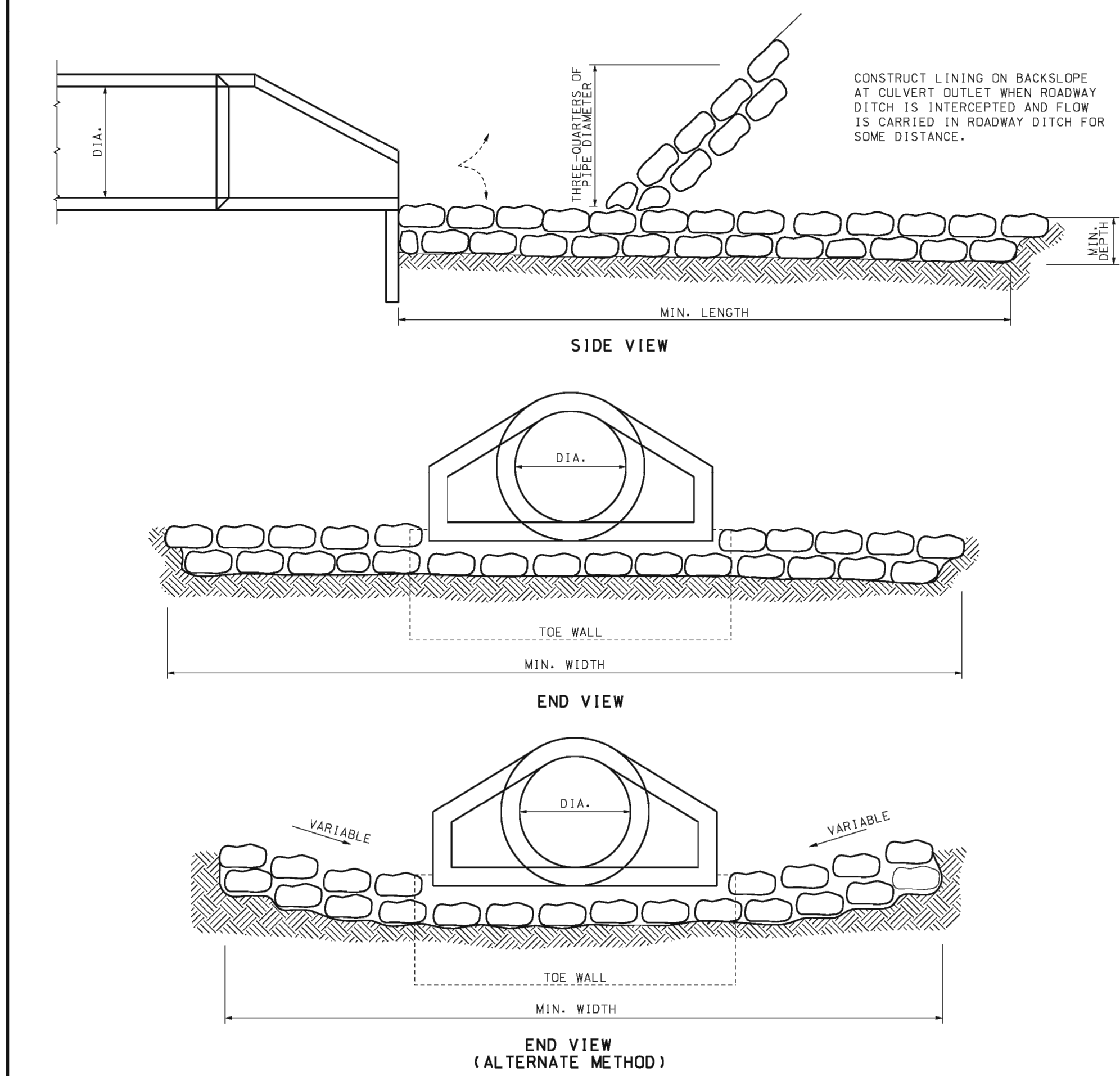
Date: 04/17
Drawn By: MJF
Checked By: DL
STM-7



- NOTES:
1. USE 3000 P.S.I. CONCRETE IN SIDE WALL AND SLAB.
 2. PROVIDE 3/4" ROUNDED EDGE ON ALL EXPOSED CORNERS.
 3. WHERE INLETS ARE SET IN CURVES, FORM FRONT WALL TO CONFORM TO CURVE.
 4. PRE-CAST UNITS MAY BE SUBSTITUTED WITH THE ENGINEER'S APPROVAL. SHOP DRAWINGS AND DESIGN CALCULATIONS MUST BE SUBMITTED.
 5. THE TOP OF THE INLET SHALL BE SLOPED TO FIT STREET, SIDEWALK, OR FINISHED GROUND ELEVATIONS

CURB INLET

402



ROCK LINING FOR CULVERT OUTLETS					
CULVERT SIZE, DIA (IN.)	MINIMUM DEPTH AND WIDTH (FT.)	MINIMUM LENGTH (FT.)	ROCK LINING (CU. YD.)	EQUIVALENT PIPE ARCH CULVERT (APPROX.)	EQUIVALENT CONCRETE BOX CULVERT (APPROX.)
18	1 X 4	12	2		
24	1 X 6	14	3		
30	1 X 7	16	4	B-5	2' X 2'
36	1.5 X 9	18	9	B-6	3' X 2'
42	2 X 10	20	15	B-7	3' X 3'
48	2 X 12	20	18	B-8	4' X 3'
54	2 X 13.5	22	22	B-9	4' X 4'
60	2 X 15	25	28	B-10	5' X 4'
66	2 X 18	25	33	B-11	5' X 5'
72	2 X 20	30	44	B-12	5' X 6'
84	2.5 X 25	35	81		6' X 6'
96	2.5 X 30	40	111		7' X 7'
108	3 X 32	40	142		8' X 8'

GENERAL NOTES:

THE DIMENSIONS SHOWN IN THE TABLE CAN BE APPLIED TO BOX OR ARCH CULVERTS OF EQUIVALENT WATERWAY AREA.



ROCK LINING FOR CULVERT OUTLET

DATE EFFECTIVE: 10/01/1981
DATE PREPARED: 8/21/2009
609.70C
SHEET NO. 1 OF 1

2310 N. JACKSON | P.O. BOX 1304
JUNCTION CITY, KANSAS 66441
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joe@kveeng.com | www.kveeng.com

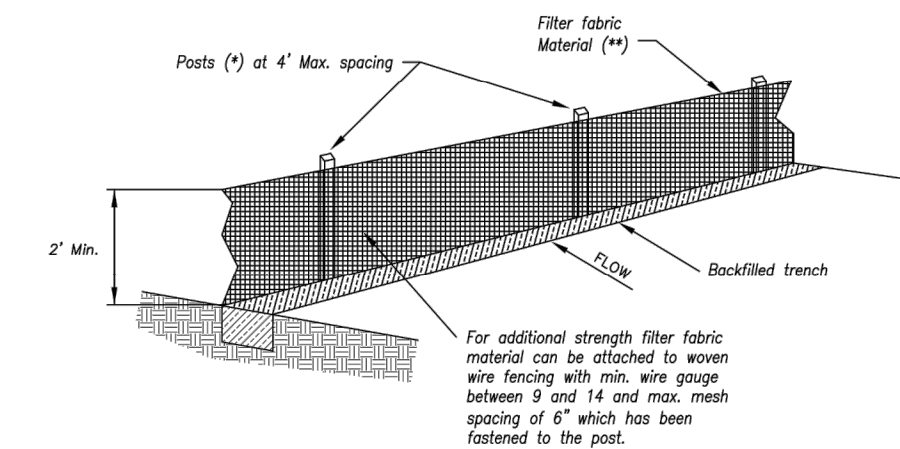
KAW VALLEY ENGINEERING

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

STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

PUBLIC STREET PLANS
STORM SEWER AND EROSION CONTROL DETAIL SHEET

PROJ. NO. A14-7067-1
DESIGNER LDO
DRAWN BY JT/BKR
CFN 7067-1PI_DET
SHEET 30
REV 2



(*) POSTS

- MIN. LENGTH 4'
- HARDWOOD 1 3/4" x 1 3/4"
- NO.2 SOUTHERN PINE 2 3/4" x 2 3/4"
- STEEL 1.33 LB/77

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

SILT FENCE DETAILS
Not to Scale

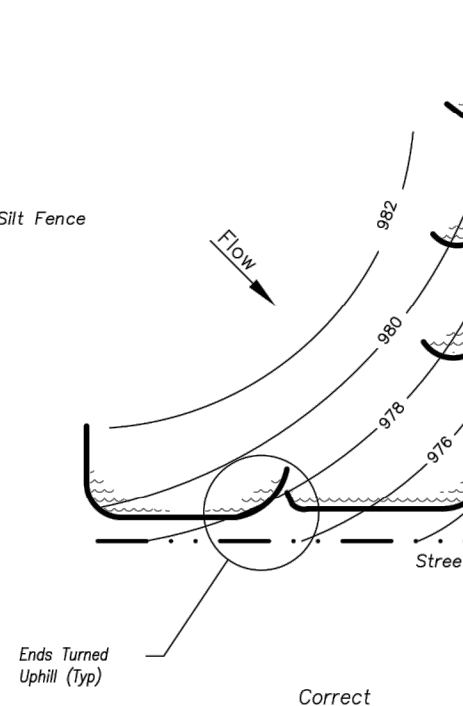
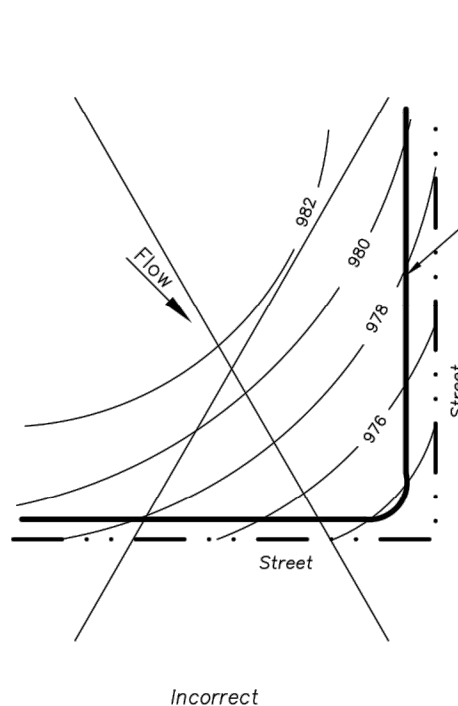
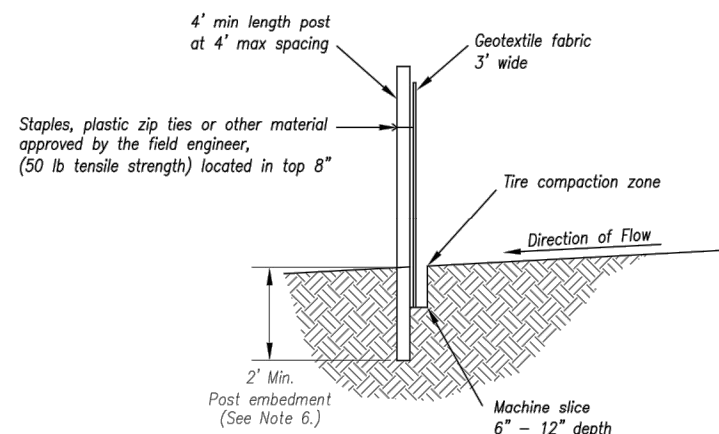


Figure A

SILT FENCE LAYOUT
Not to Scale

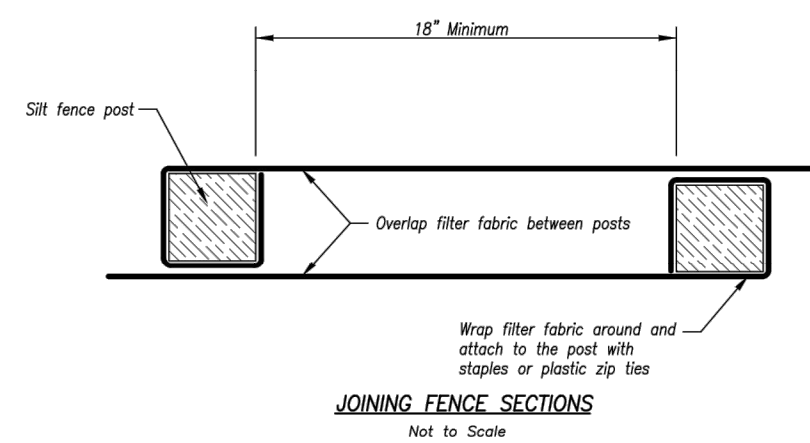


Notes:

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.

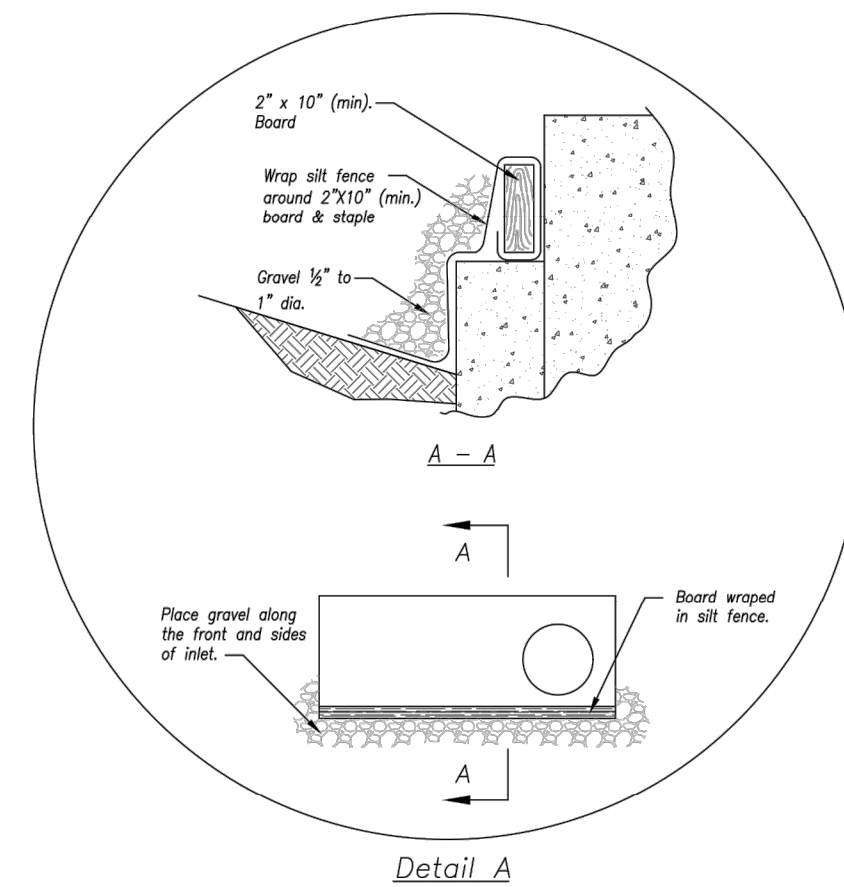
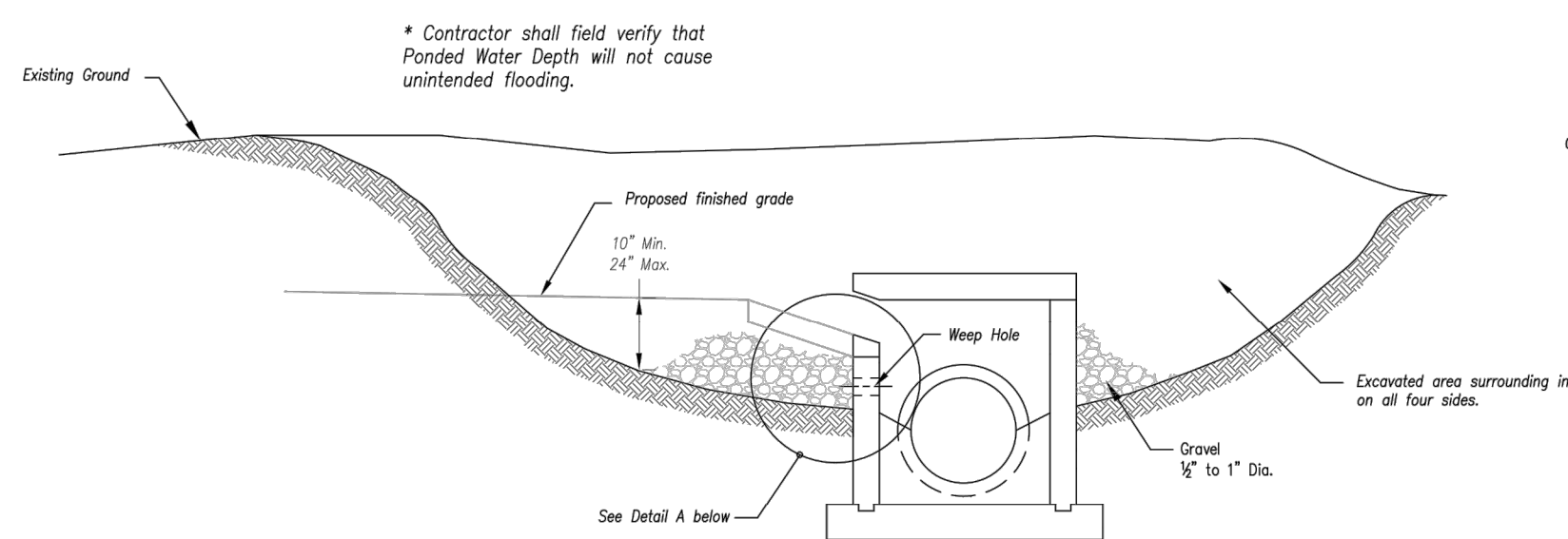
Maintenance:

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.



AMERICAN PUBLIC WORKS ASSOCIATION	
	KANSAS CITY METRO CHAPTER
SILT FENCE	STANDARD DRAWING NUMBER ESC-03 ADOPTED: 10/24/2016

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



EARLY STAGE CURB INLET
(Open Box and Prior to Pouring Curb and Inlet Throat)

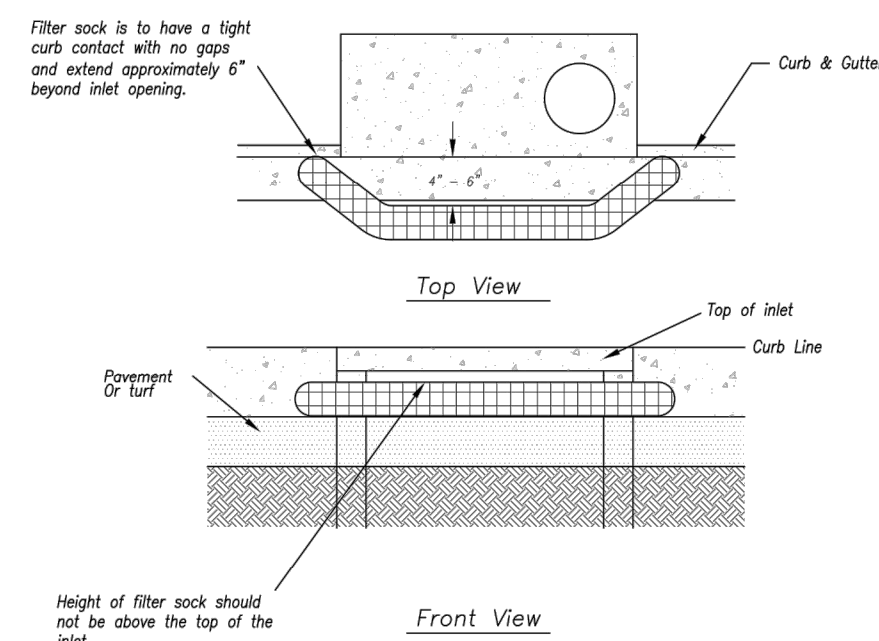
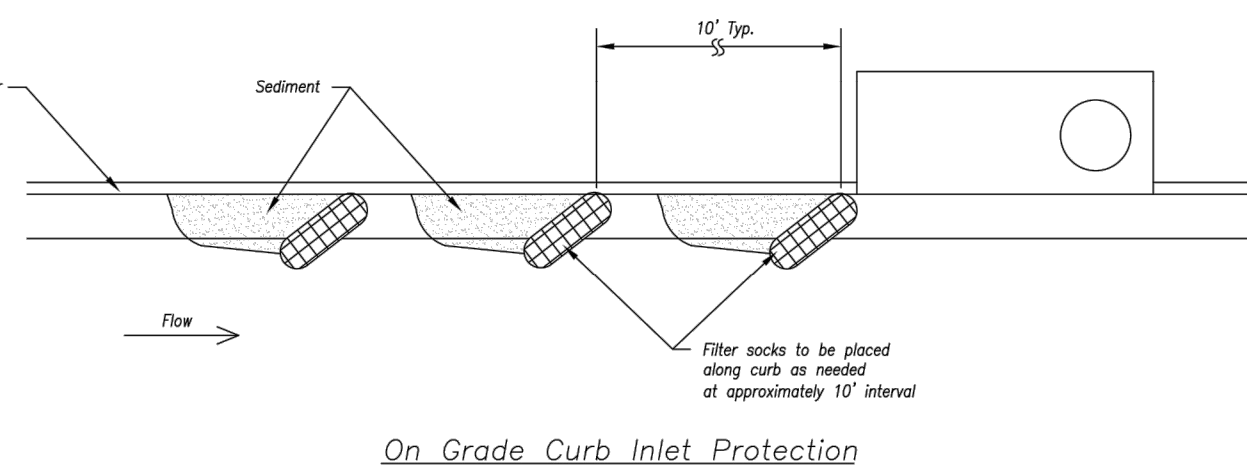
Notes:

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 setting 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.

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

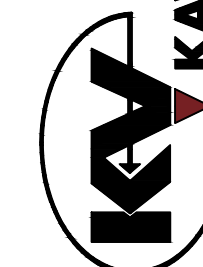


LATE STAGE CURB INLET
(After Pouring Curb and Inlet Throat)

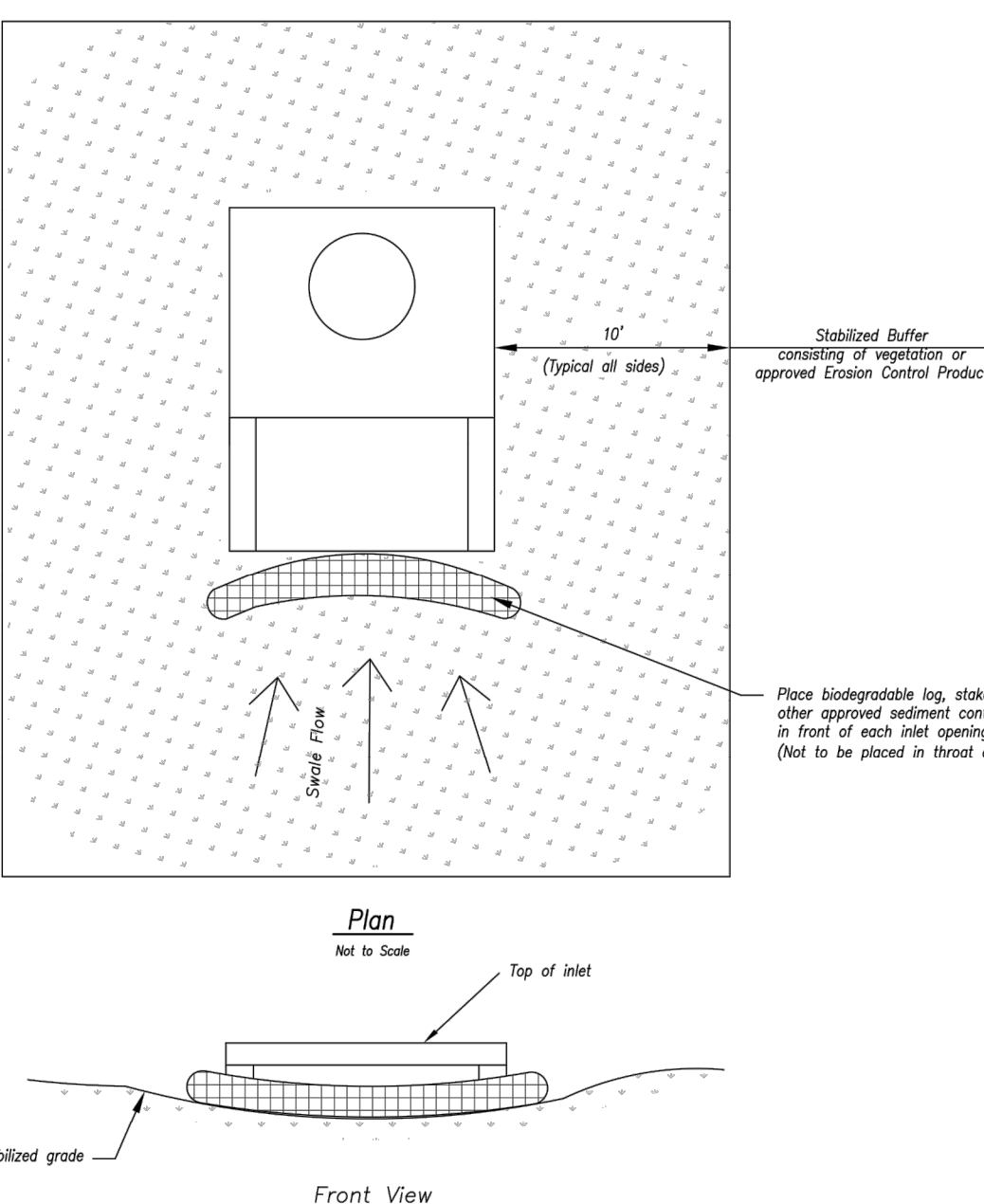
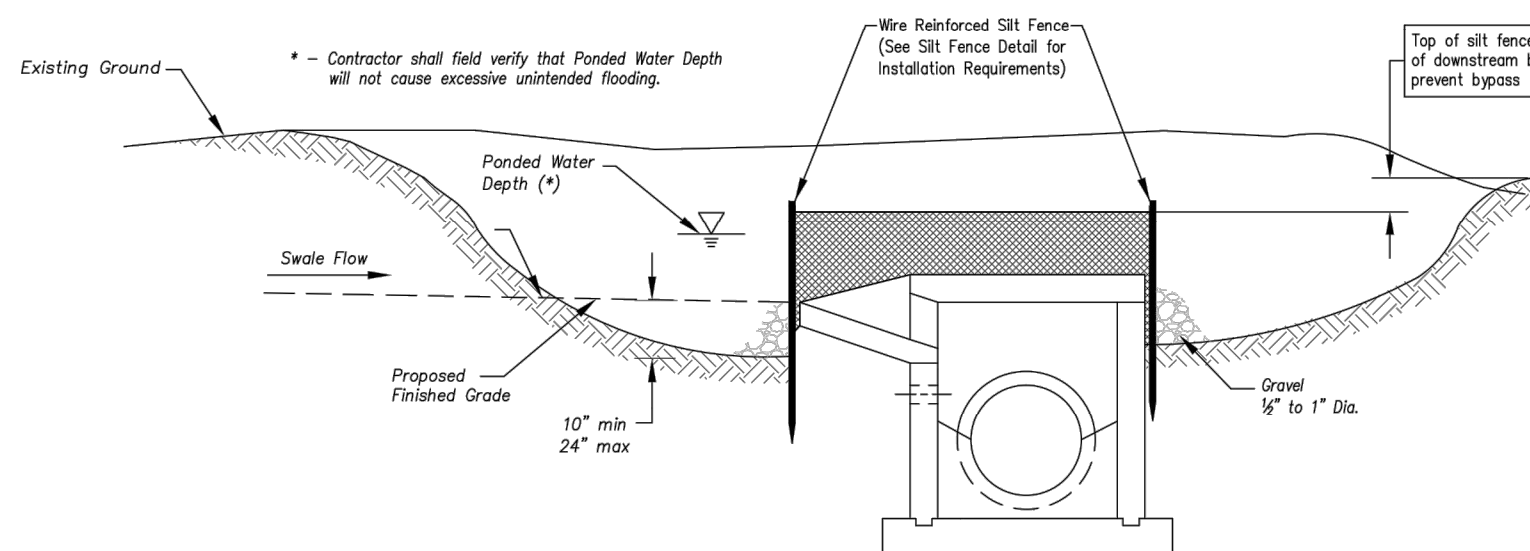
AMERICAN PUBLIC WORKS ASSOCIATION	
	KANSAS CITY METRO CHAPTER
CURB INLET PROTECTION	STANDARD DRAWING NUMBER ESC-06 ADOPTED: 10/24/2016

LEON D. OSBOURN
ENGINEER
MO # 021726

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PH. (785) 762-5040 | FAX (785) 762-7744
joe@kve.com | www.kve.com



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EXPIRES 12/31/19



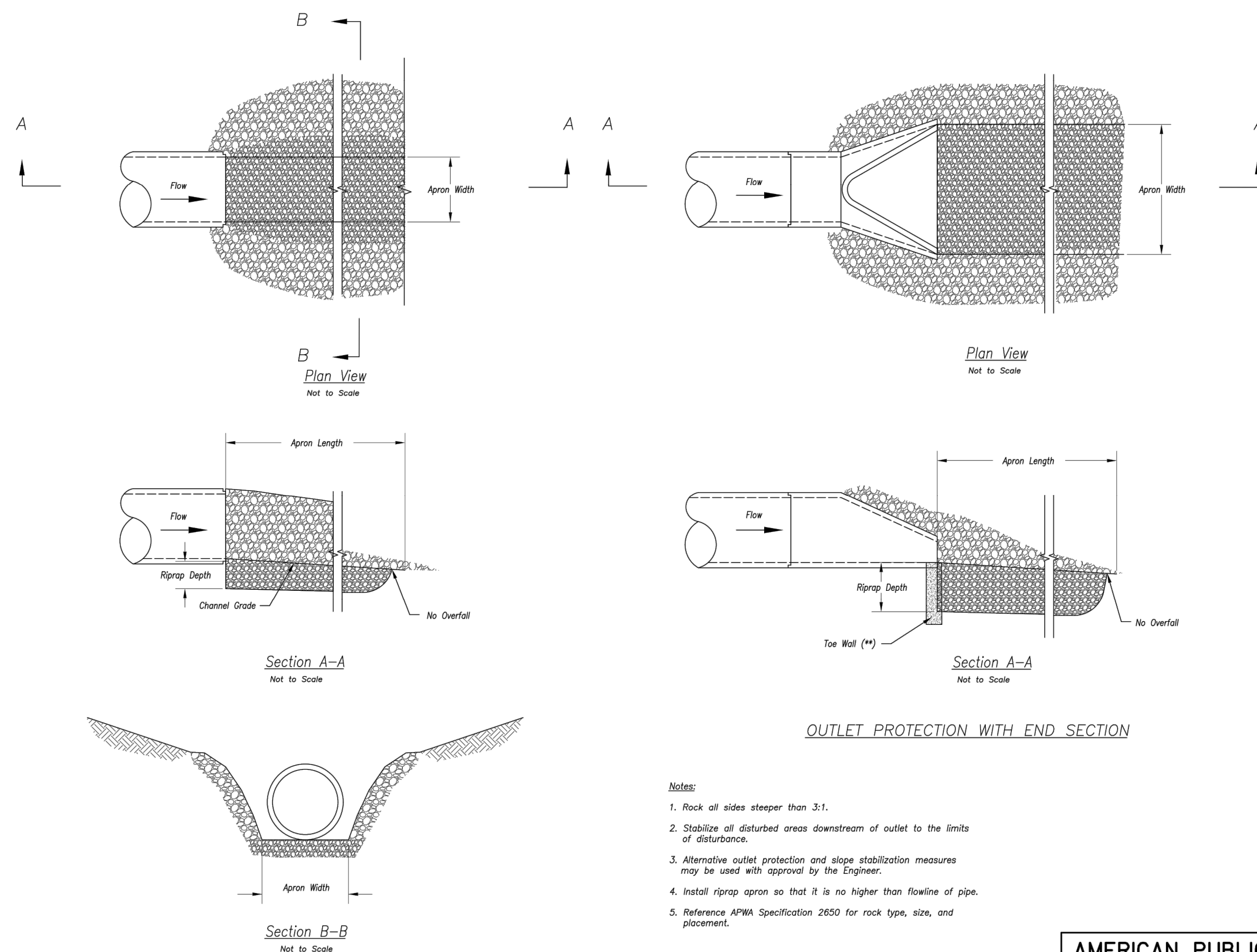
LATE STAGE AREA INLET
(Area inlets at final grade and existing inlets)

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.

AMERICAN PUBLIC WORKS ASSOCIATION	
	KANSAS CITY METRO CHAPTER
AREA INLET AND JUNCTION BOX PROTECTION	STANDARD DRAWING NUMBER ESC-07 ADOPTED: 10/24/2016

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



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.

AMERICAN PUBLIC WORKS ASSOCIATION	
	KANSAS CITY METRO CHAPTER
OUTLET PROTECTION	STANDARD DRAWING NUMBER ESC-14 ADOPTED: 10/24/2016

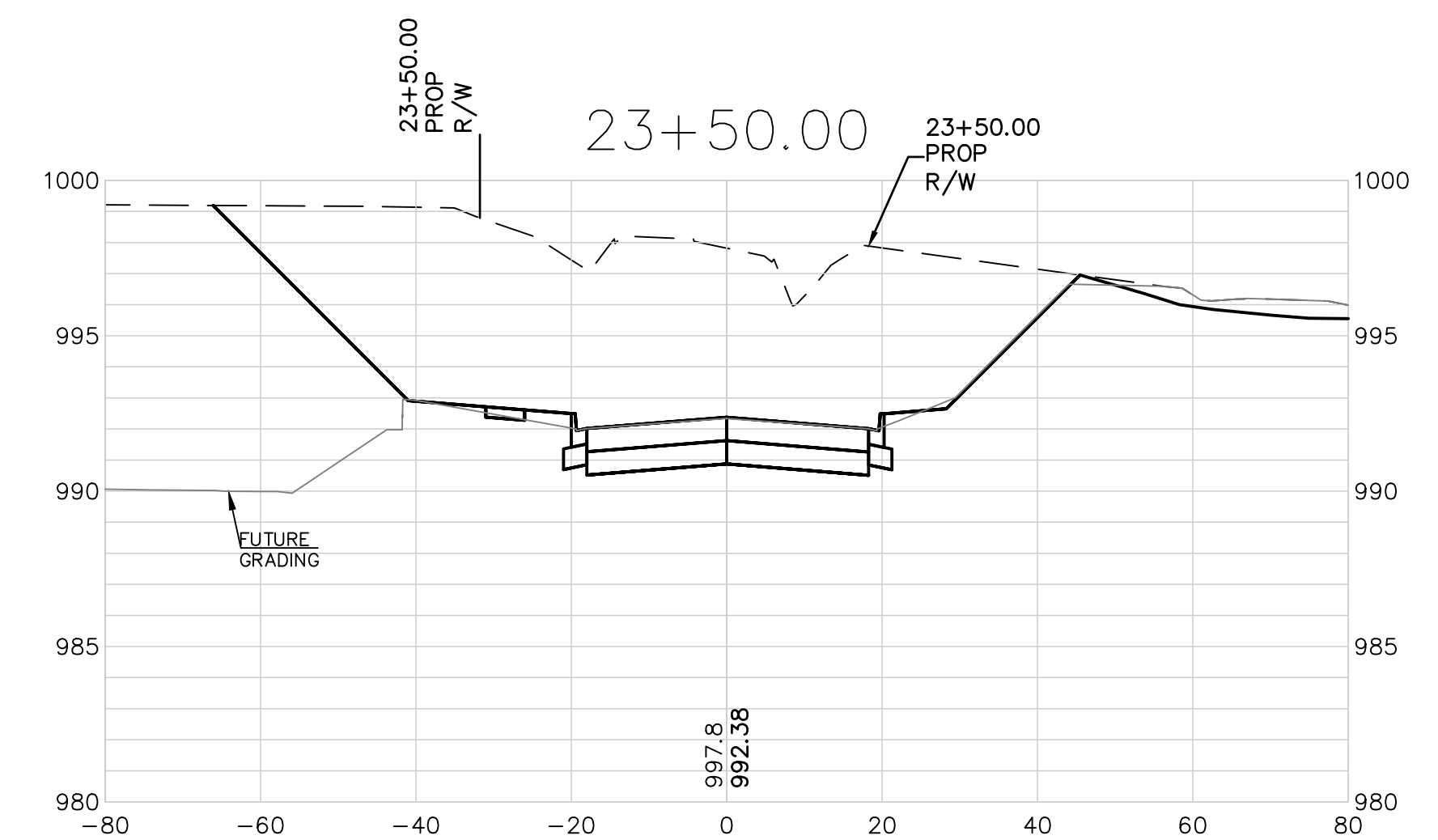
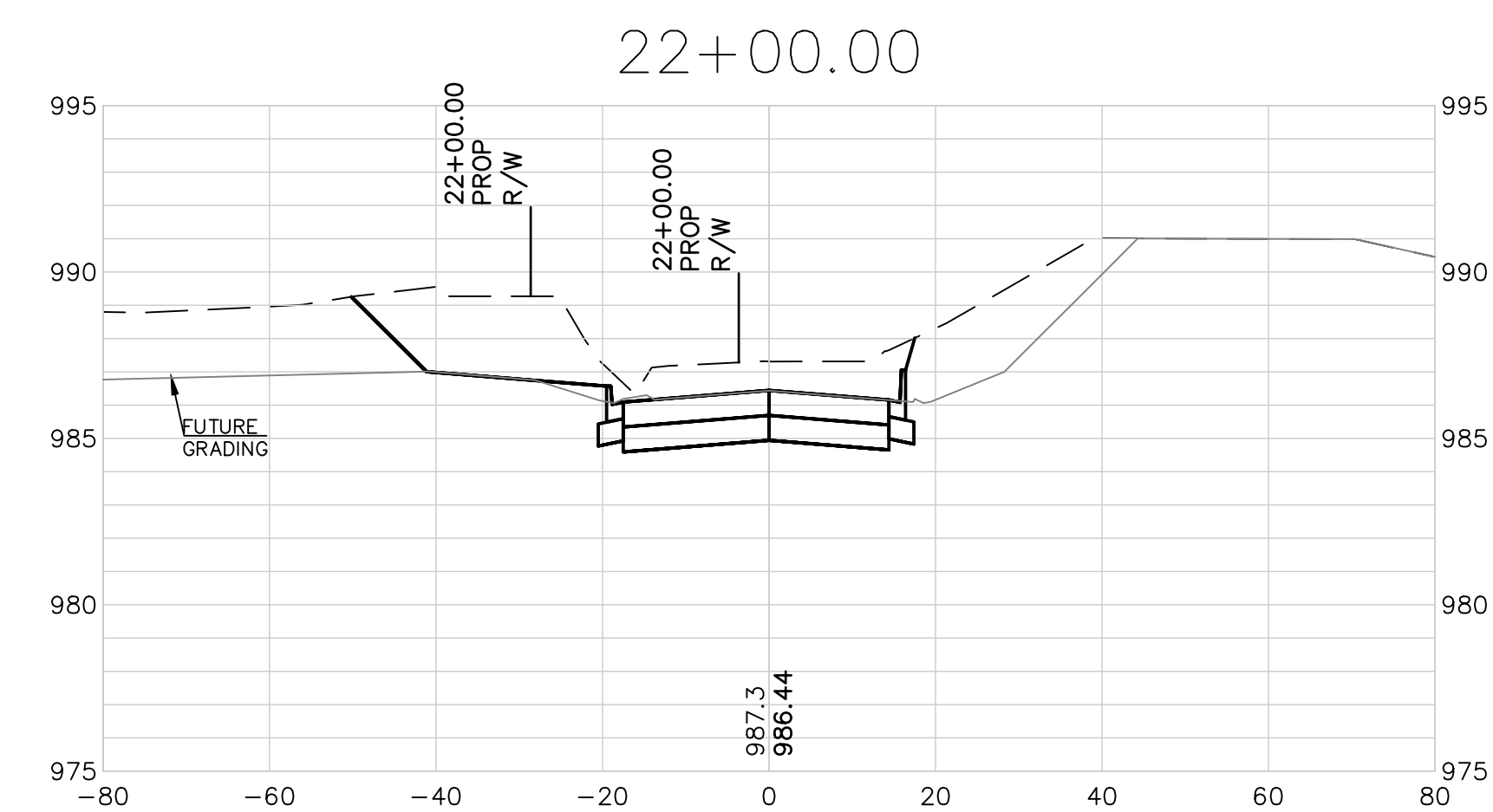
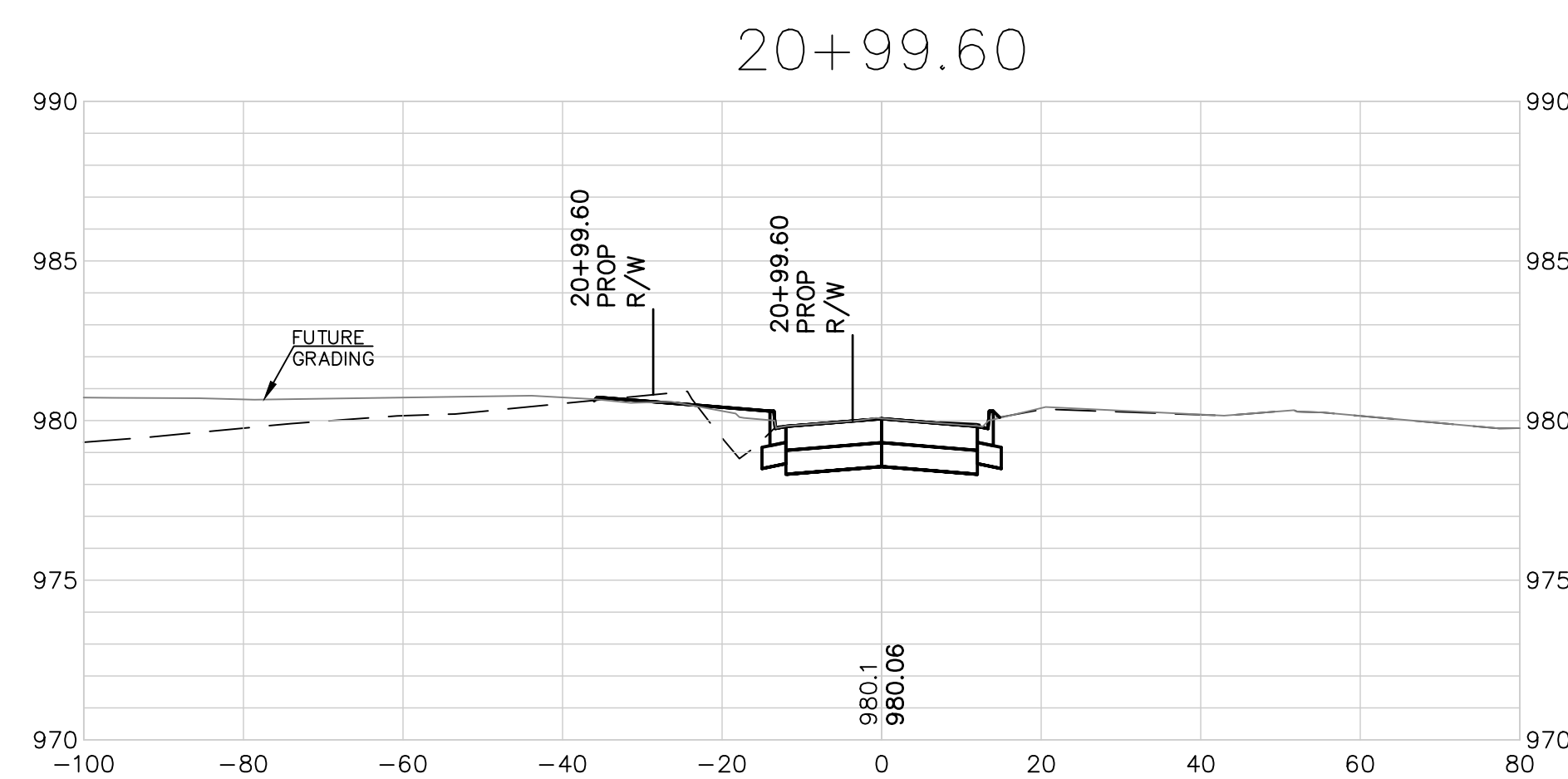
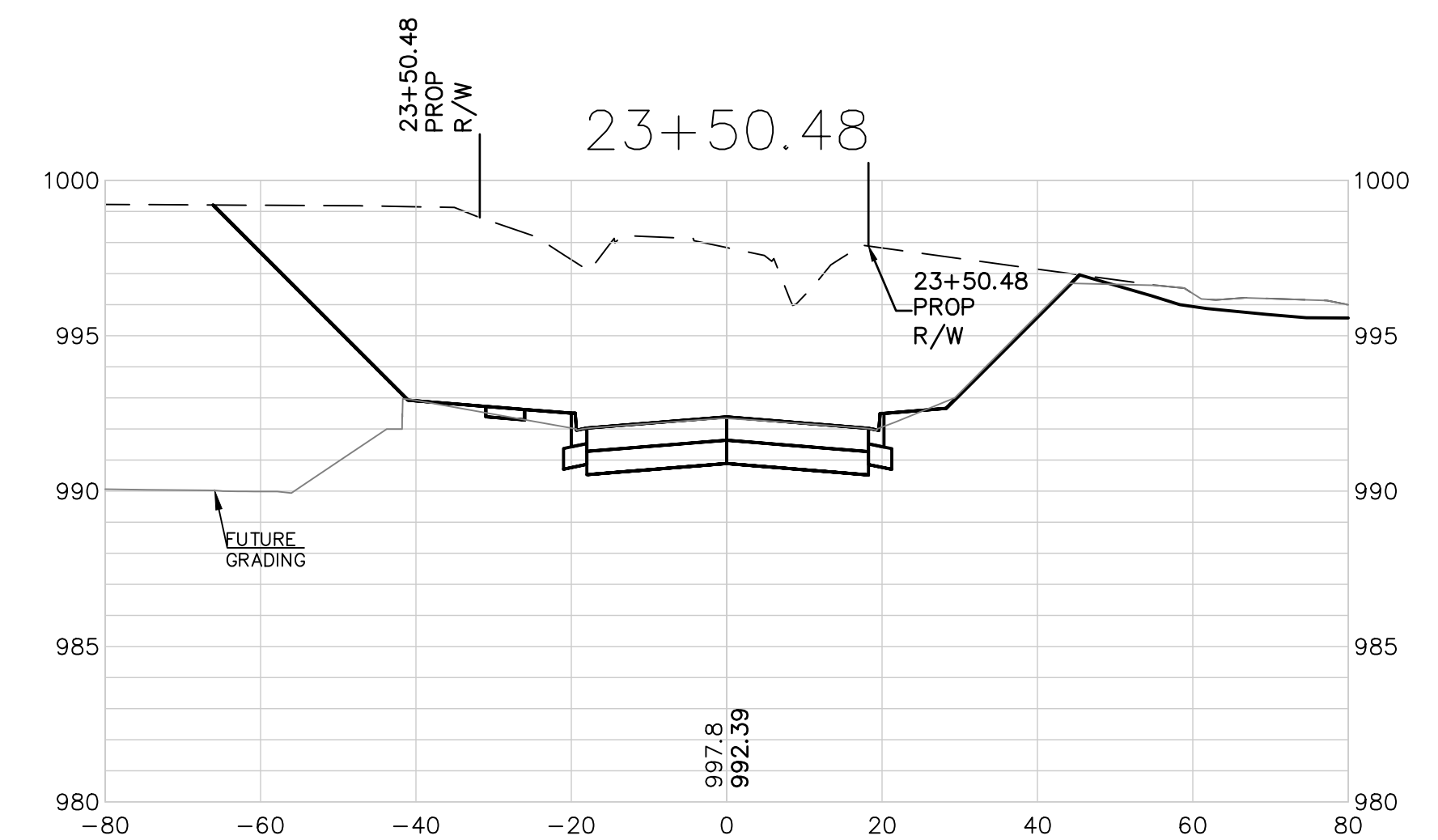
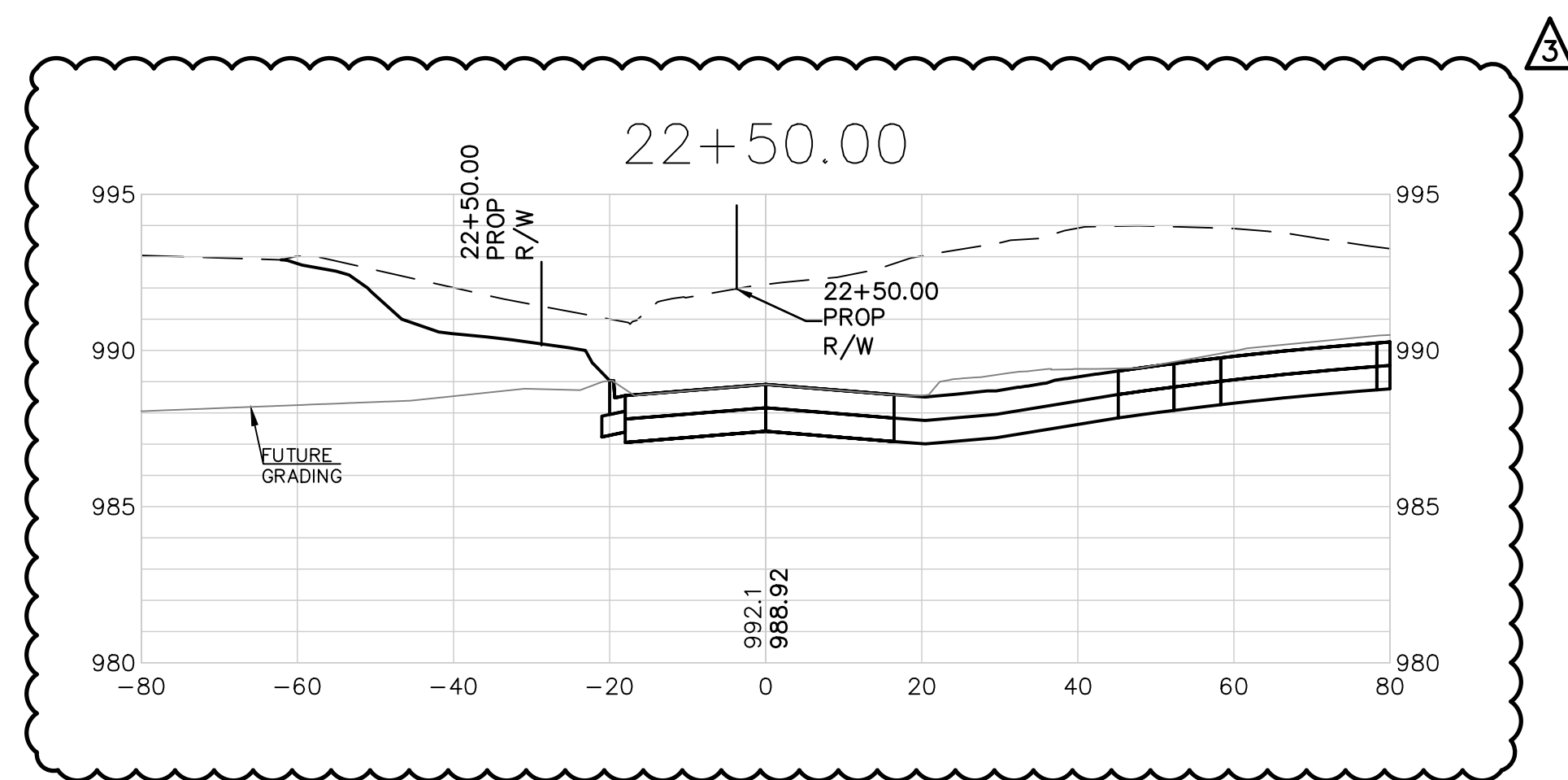
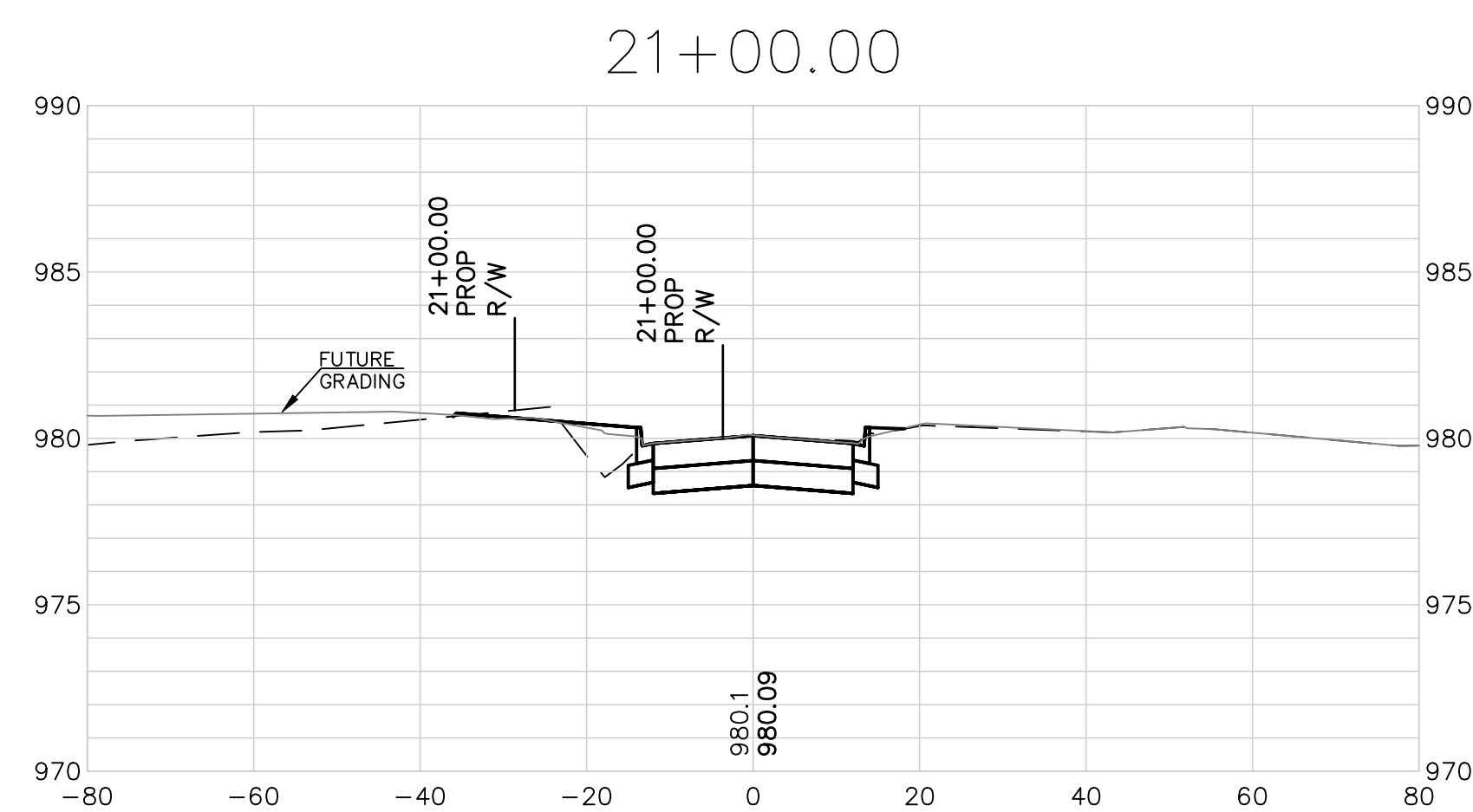
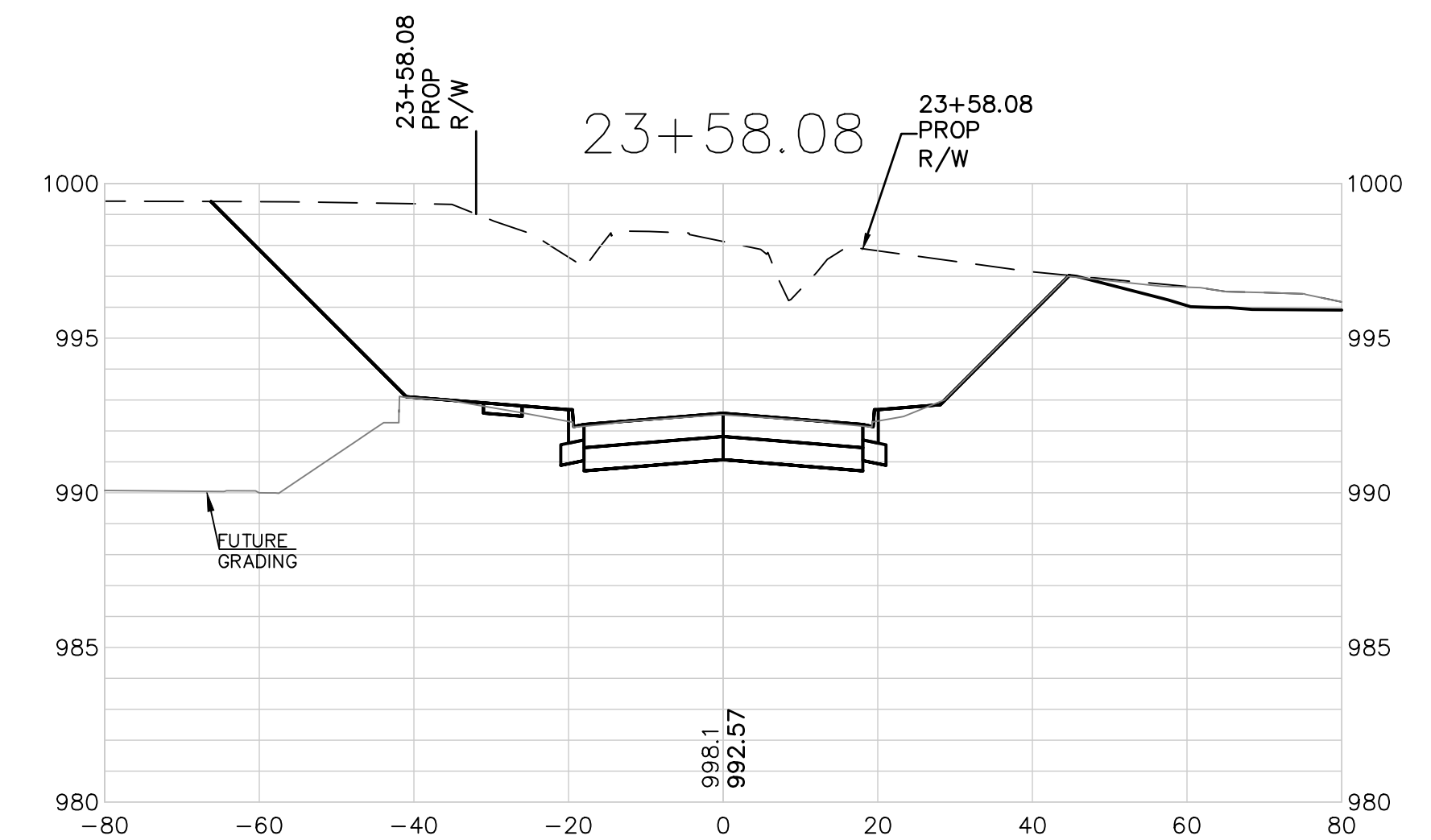
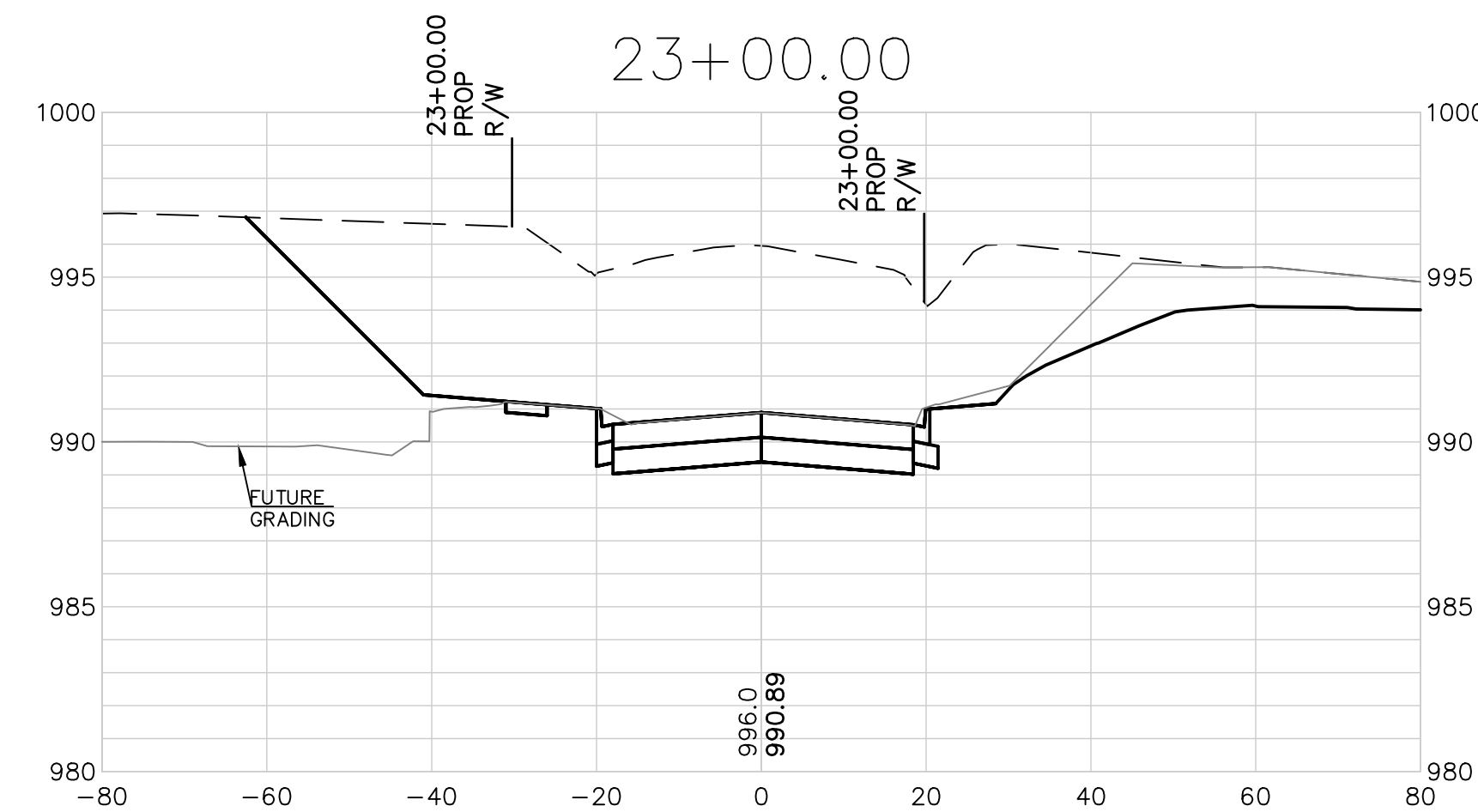
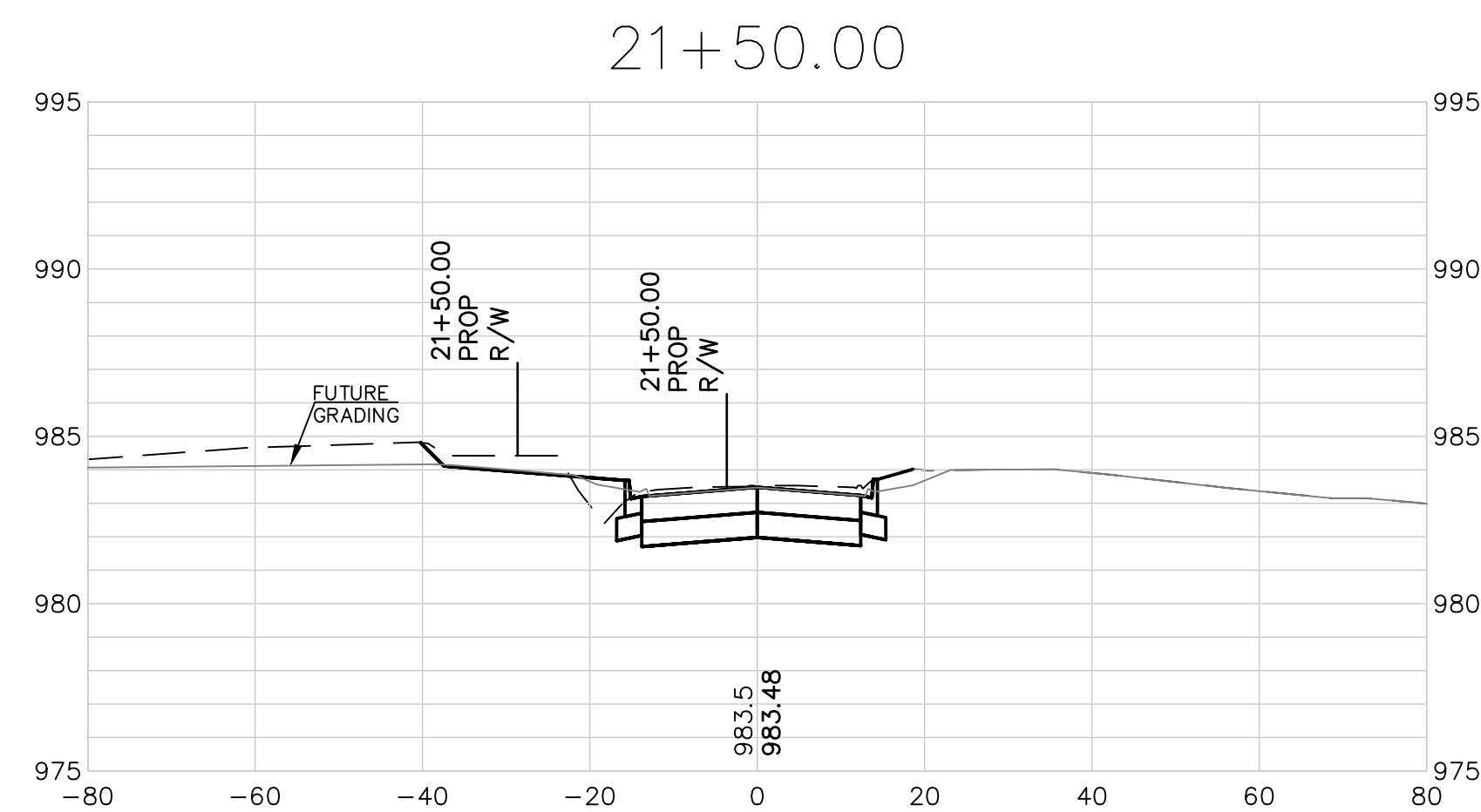
Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

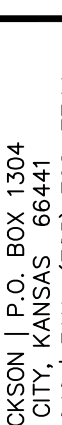
PUBLIC STREET PLANS
EROSION CONTROL DETAIL SHEET

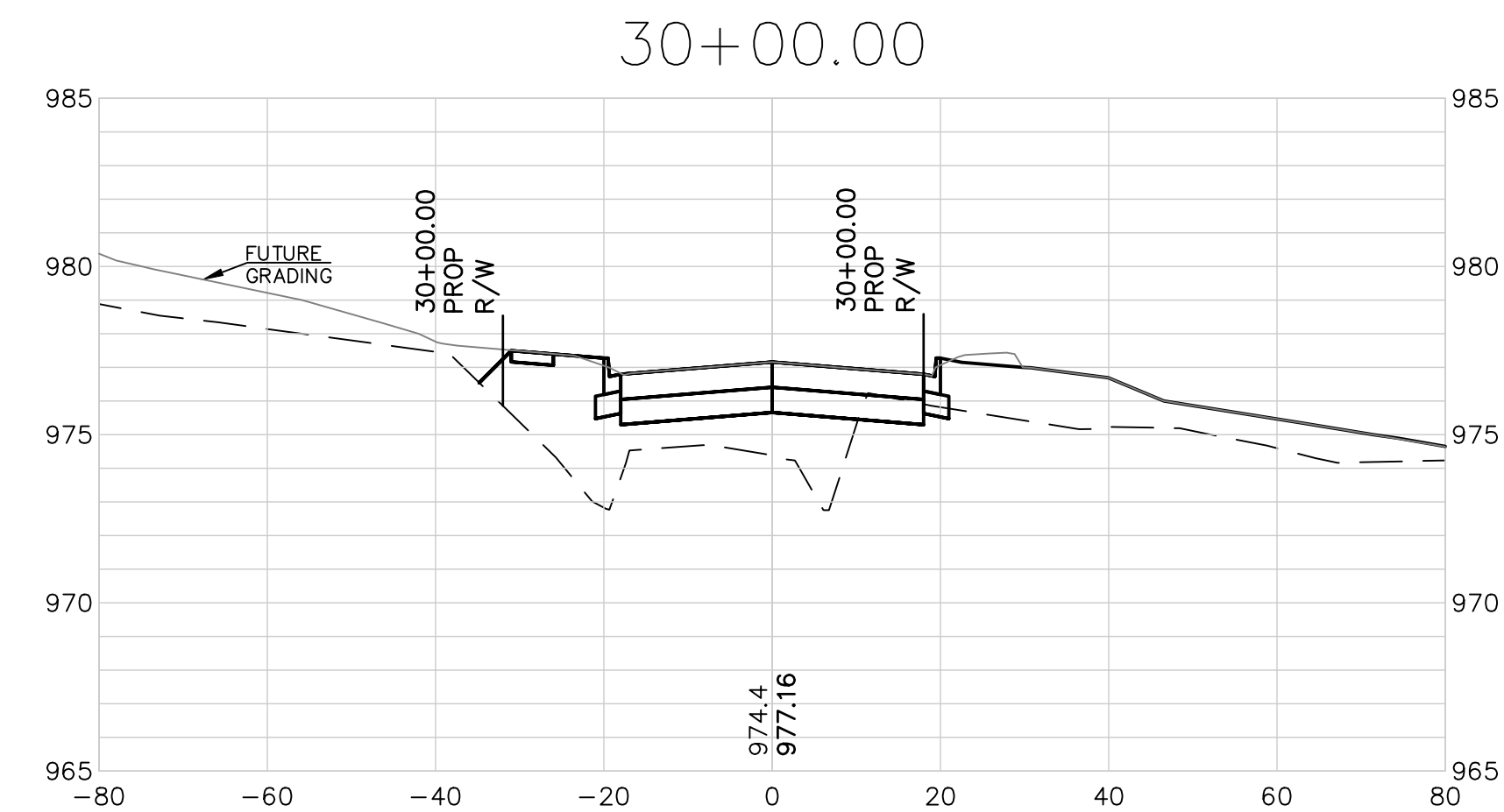
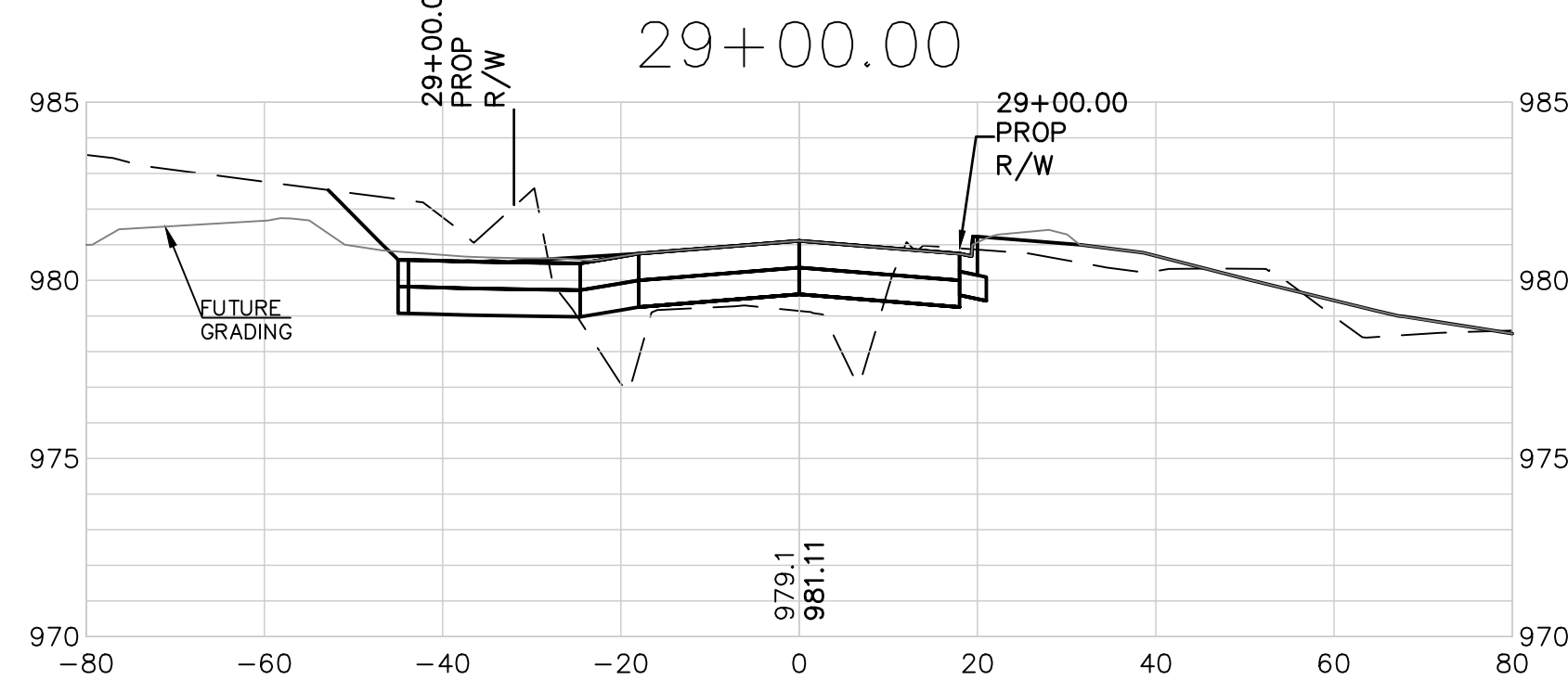
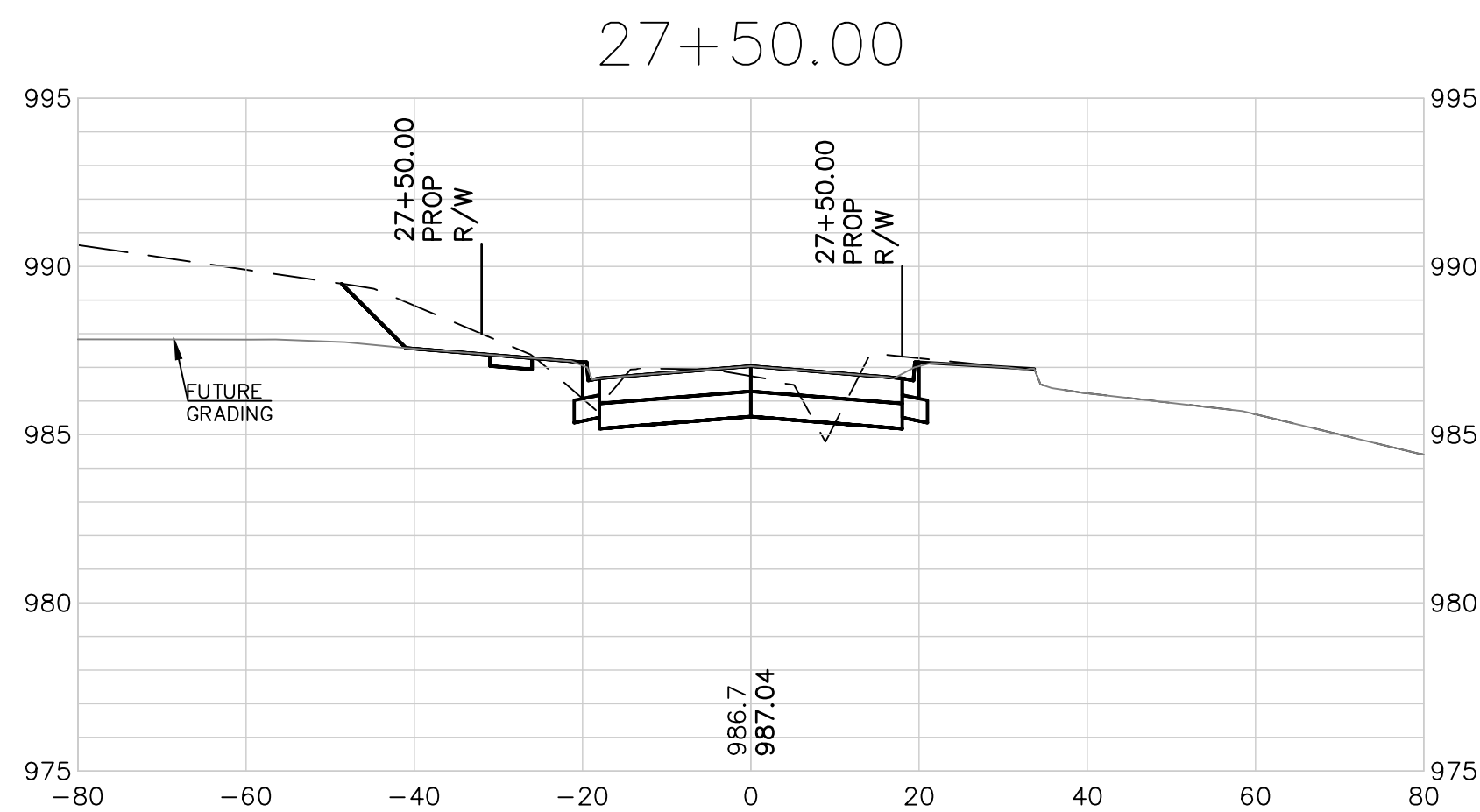
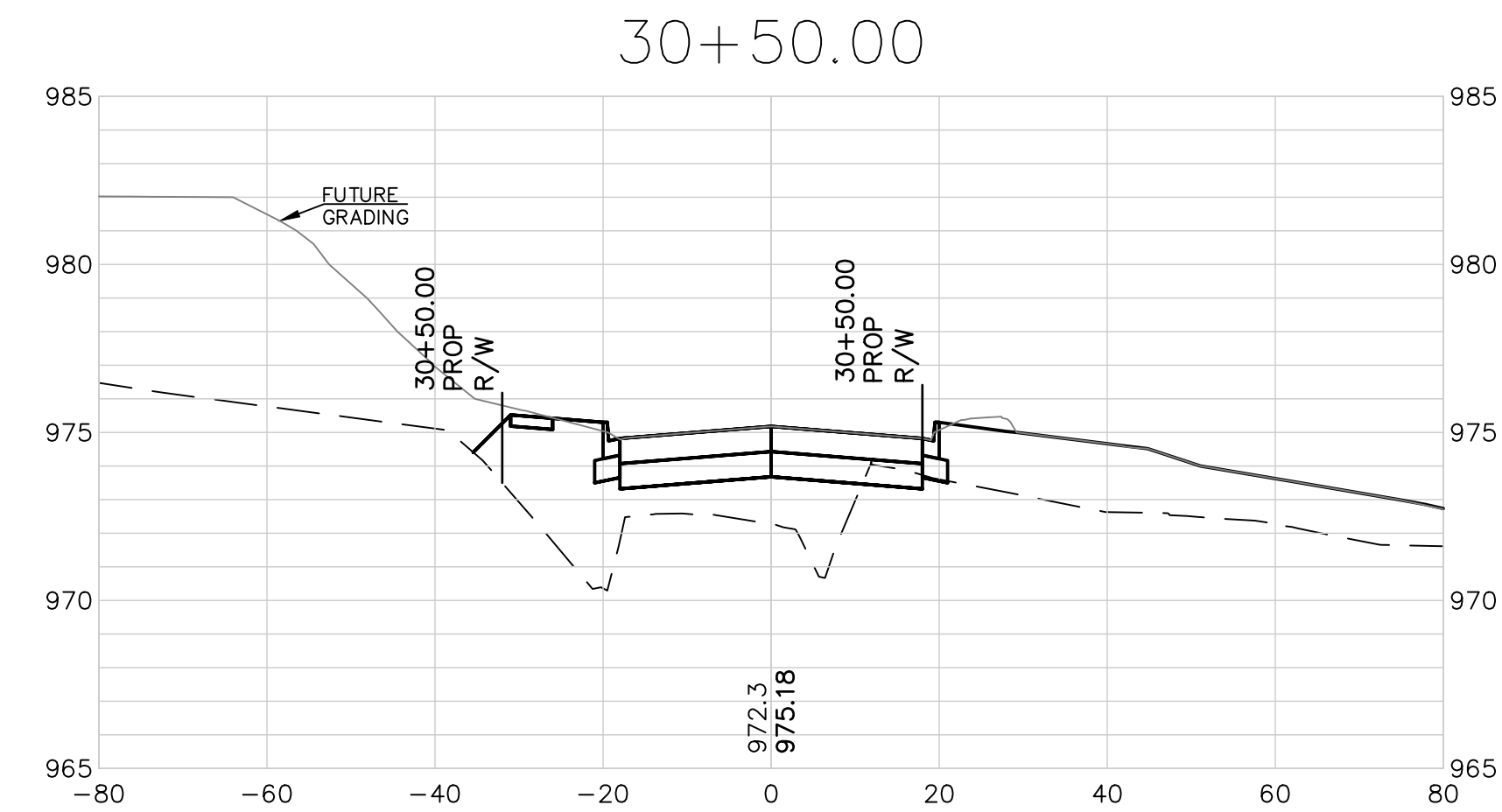
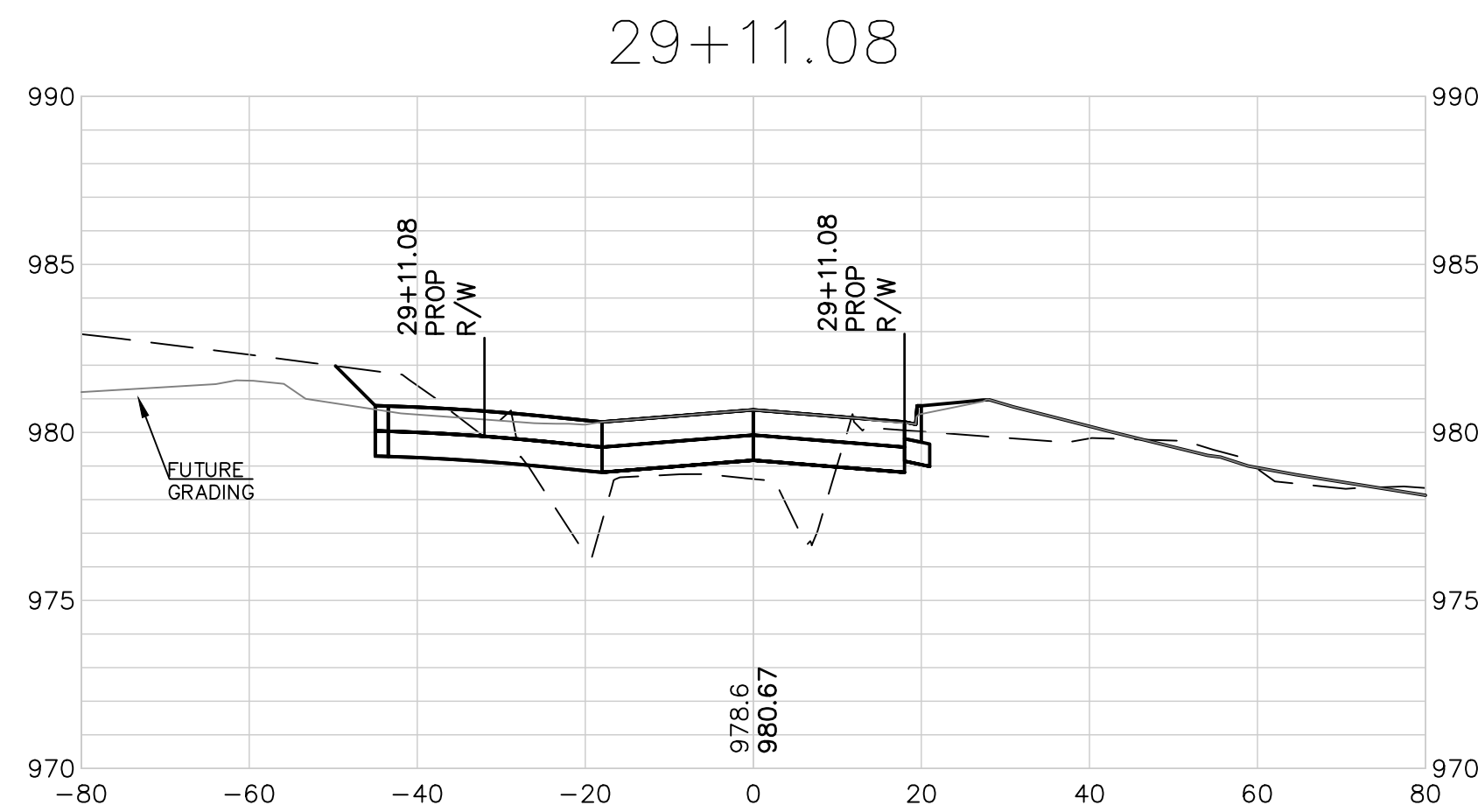
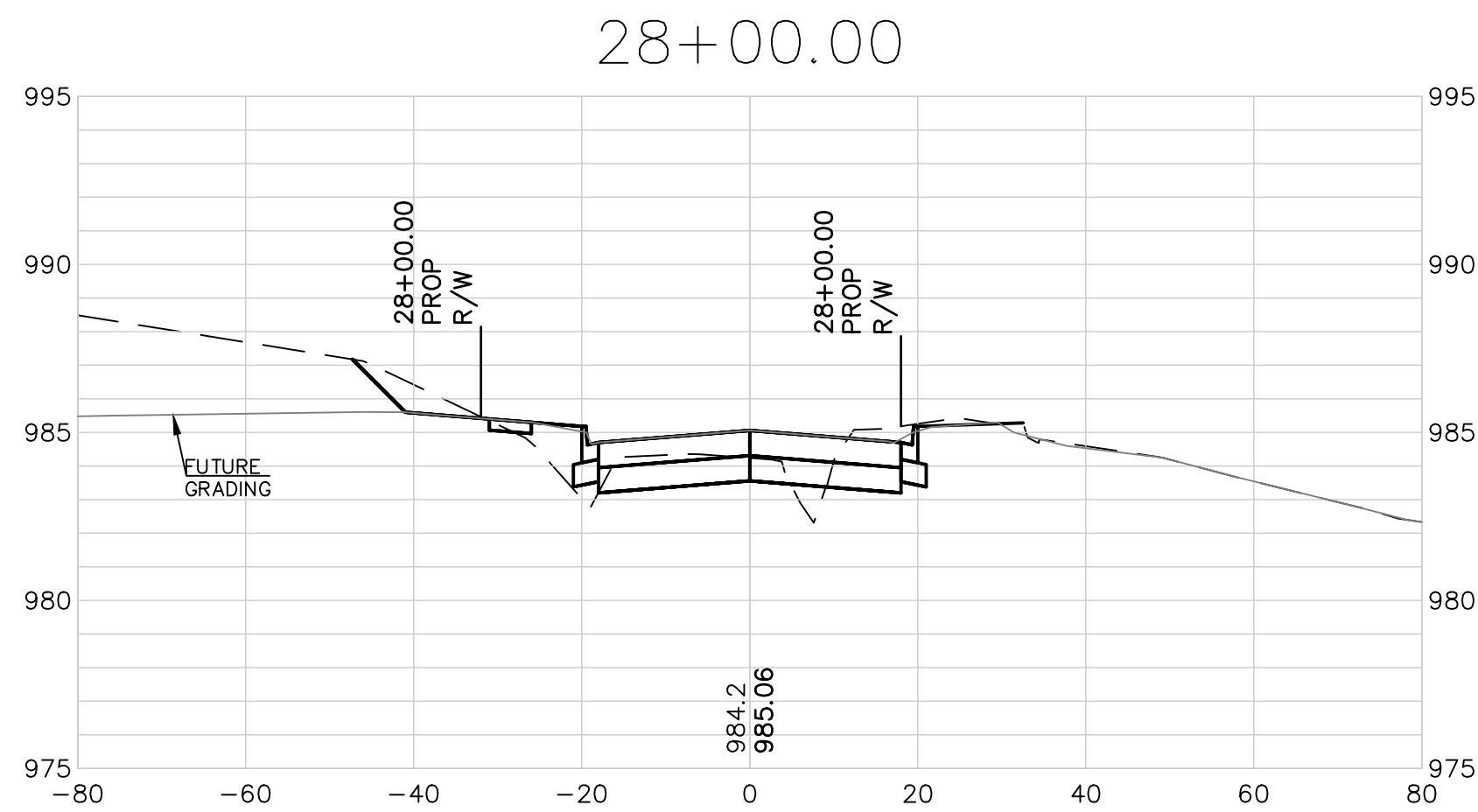
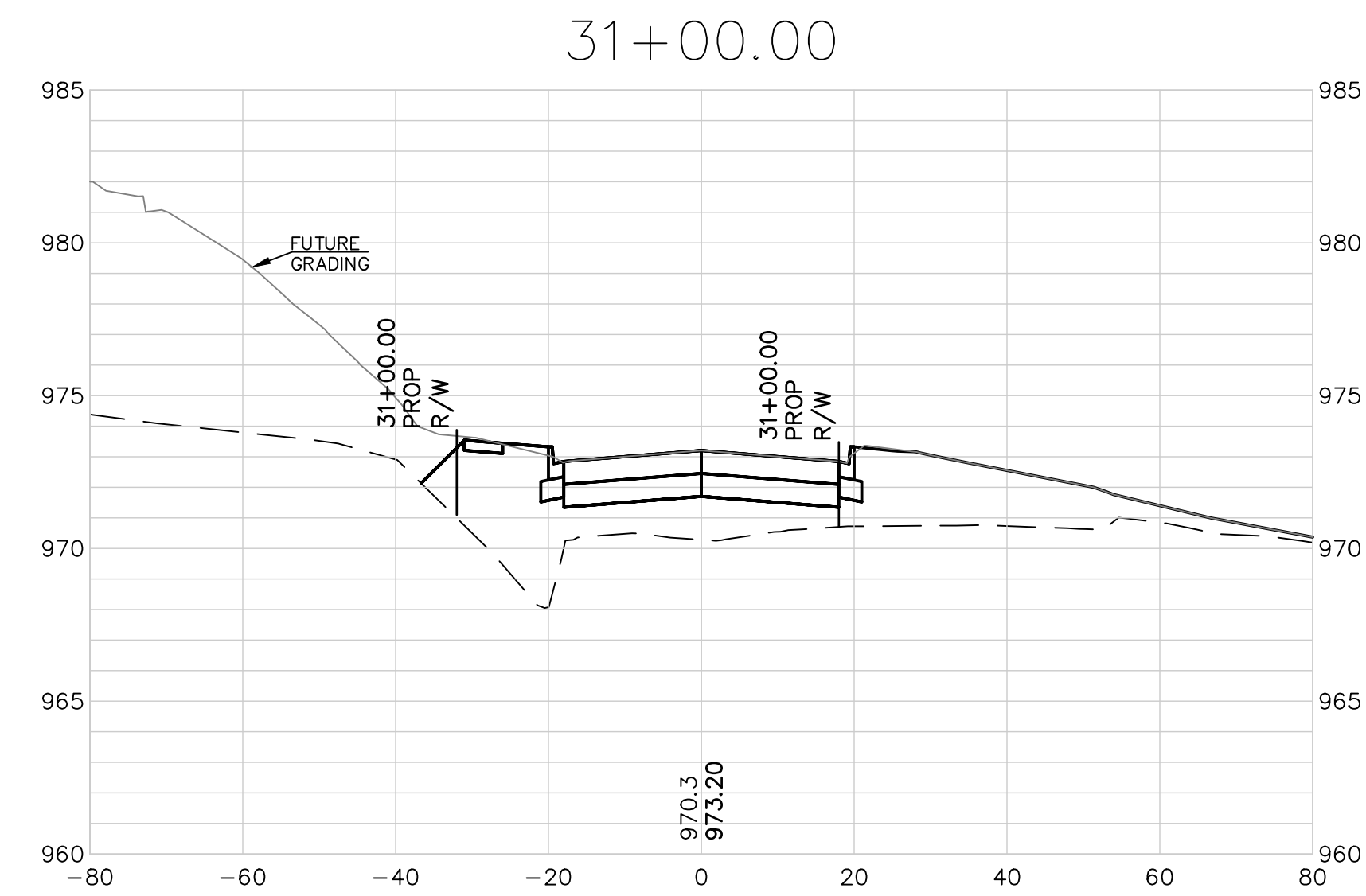
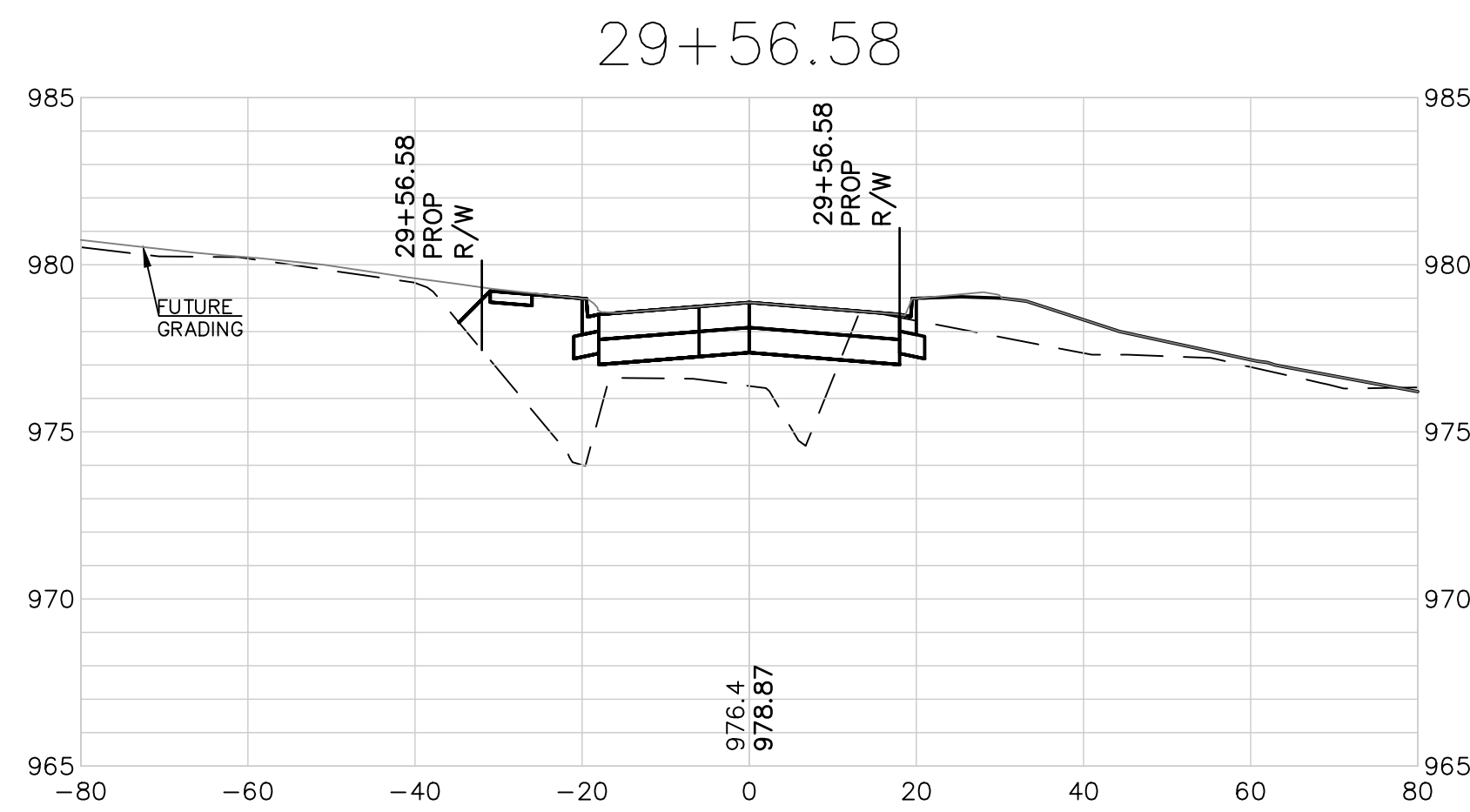
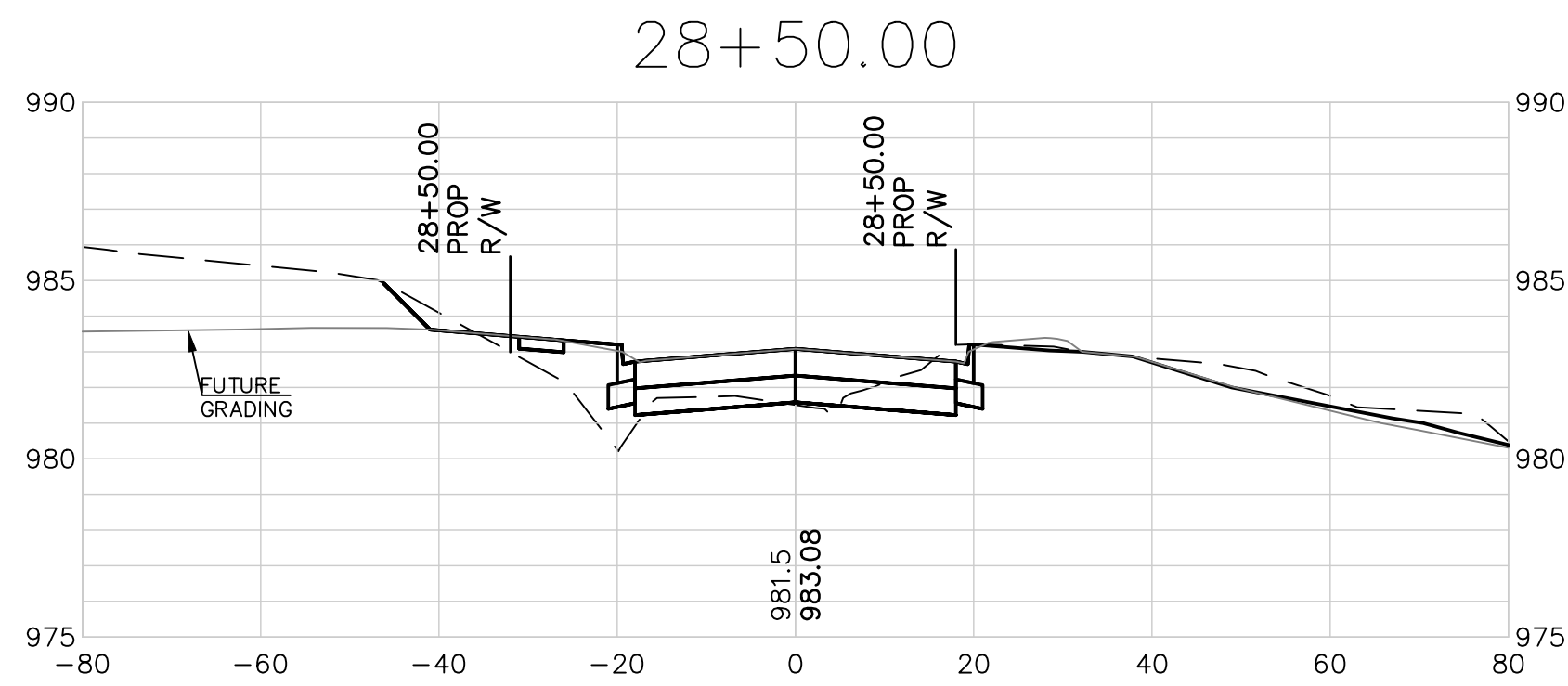
PROJ. NO. A14-7067-1
DESIGNER LDO
DRAWN BY JT/BKR

CFN 7067-1PI_DET
SHEET



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

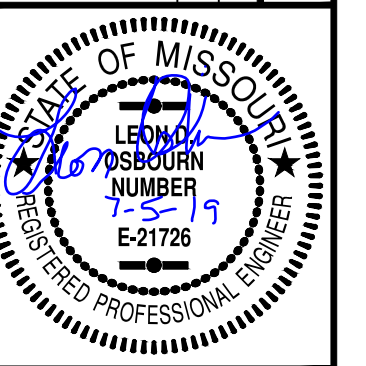
STREETS OF WEST PRYOR NWQ NW PRYOR RD & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI		PROJ. NO. A14_7067-1	
DESIGNER LDO	DRAWN BY JT/BKR	SHEET 32	
7067-1PI_STTP		REV 3	CFN
PUBLIC STREET PLANS NW LOWENSTEIN DRIVE - CROSS SECTIONS		2319 N. JACKSON P.O. BOX 4304 JCK, MO 64504 PH. (785) 782-5040 FAX (785) 782-7744 jck@kvwg.com www.kvwg.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	
LEON D. OSBOURN ENGINEER MO # 021726			
3	7-25-19	REVISED PER CITY COMMENT	BKR
2	7-5-19	REVISED PER CITY COMMENTS	LDO
1	5-16-19	REVISED PER CITY COMMENTS	JT
0	01-11-19	INITIAL ISSUE	LDO
REV	DATE	DESCRIPTION	DSN
			CHK



EXTENSIVE REVISIONS

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

REV	DATE	DESCRIPTION
1	5-18-19	REVISED PER CITY COMMENTS
0	01-11-19	INITIAL ISSUE

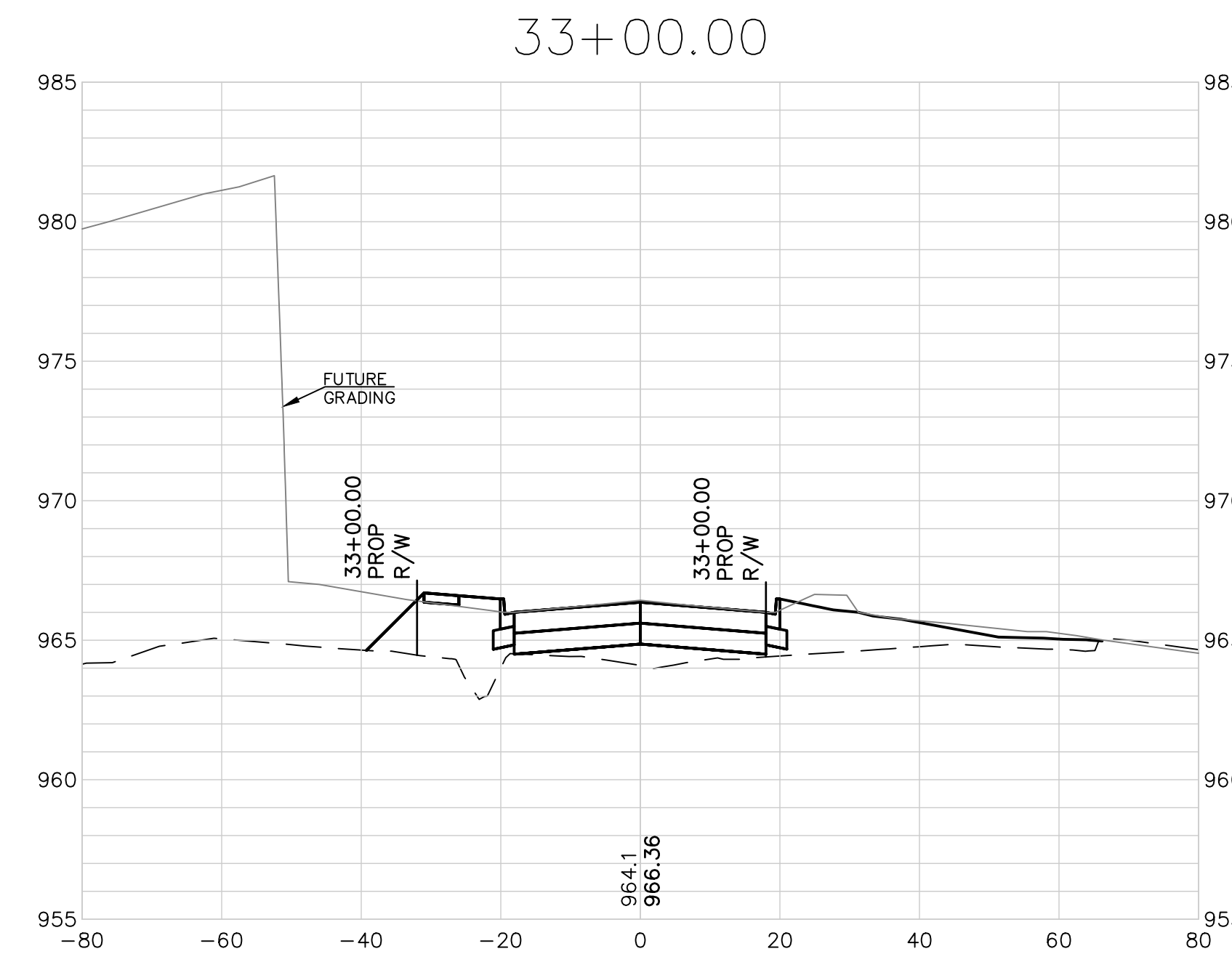
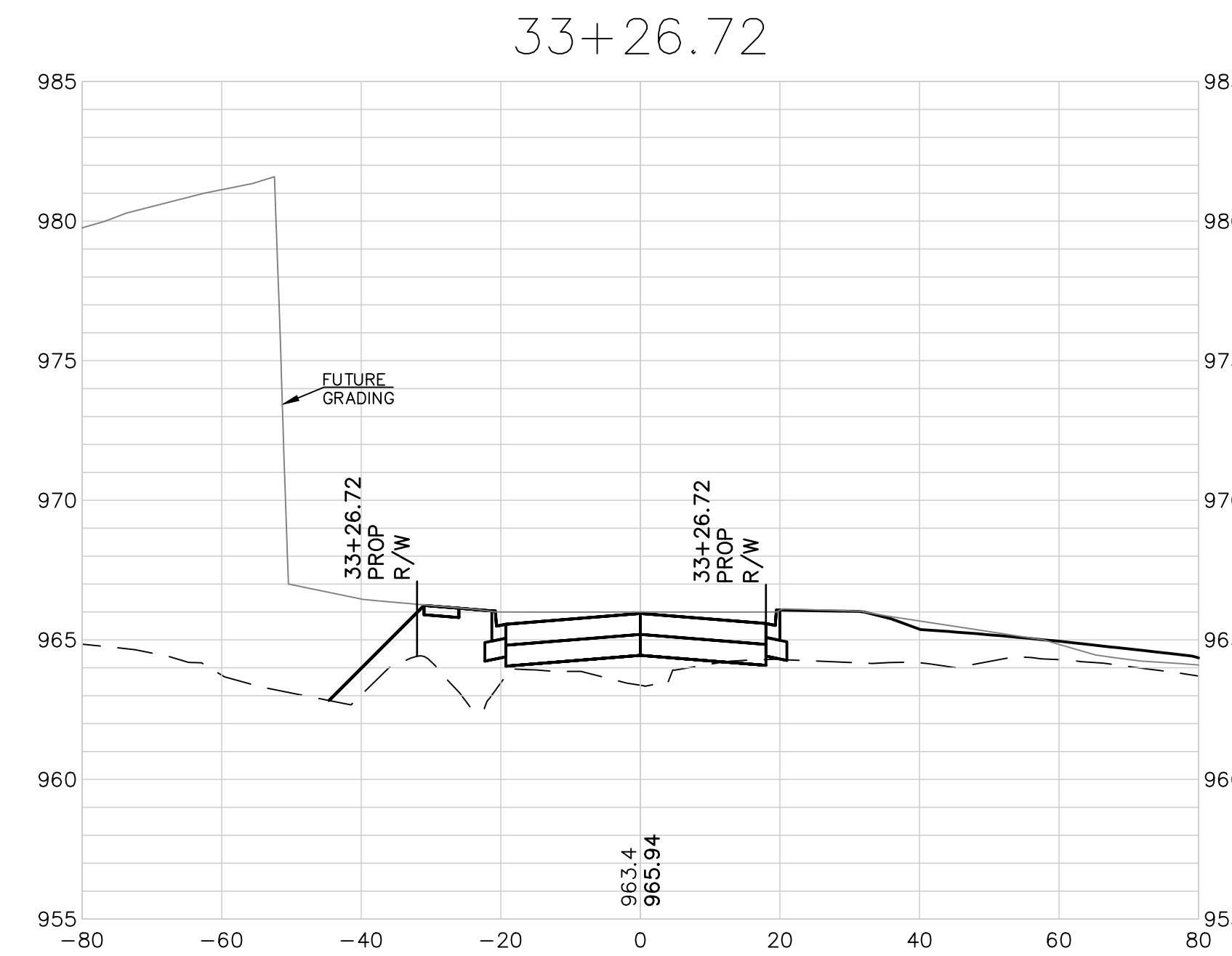
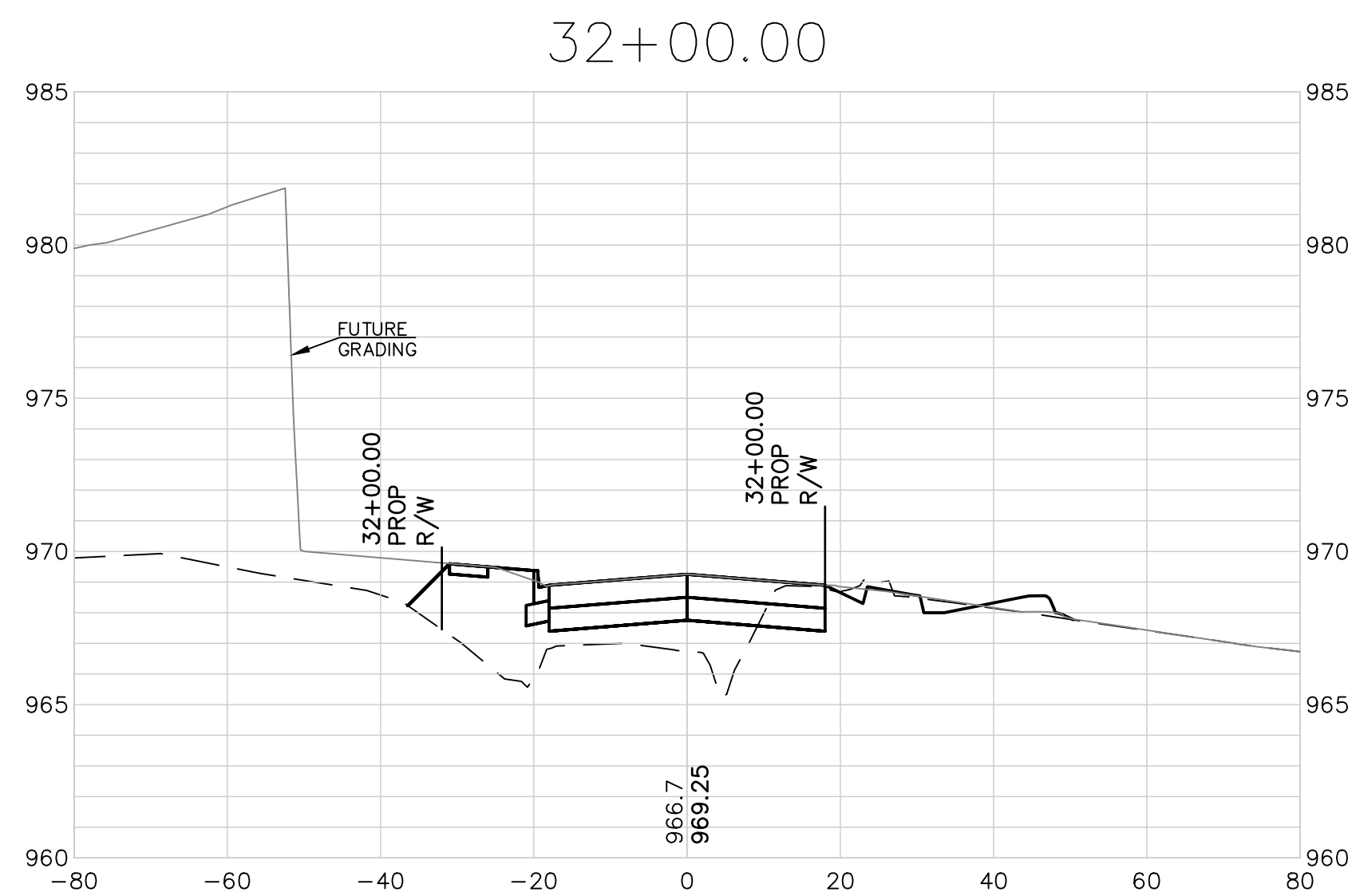
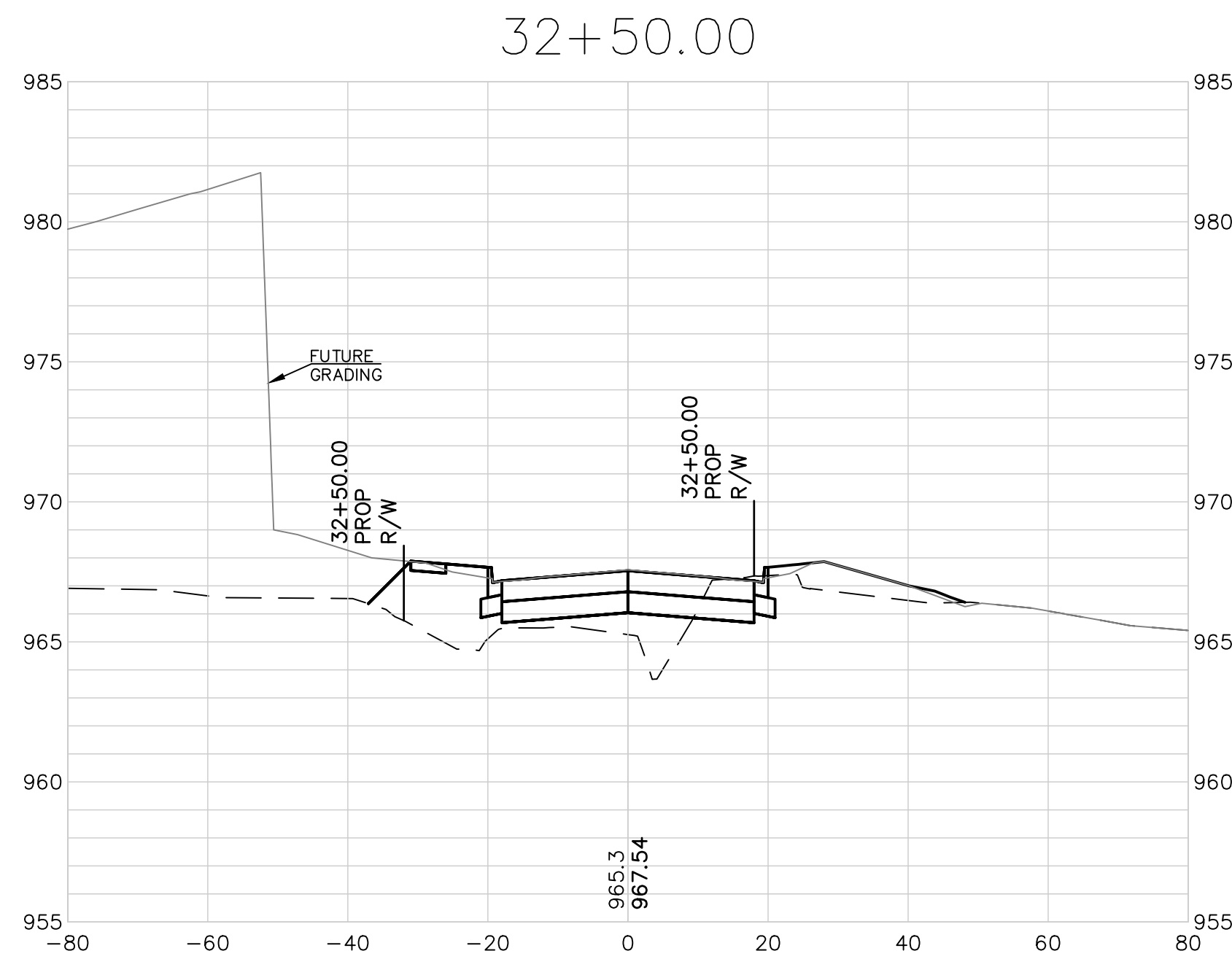
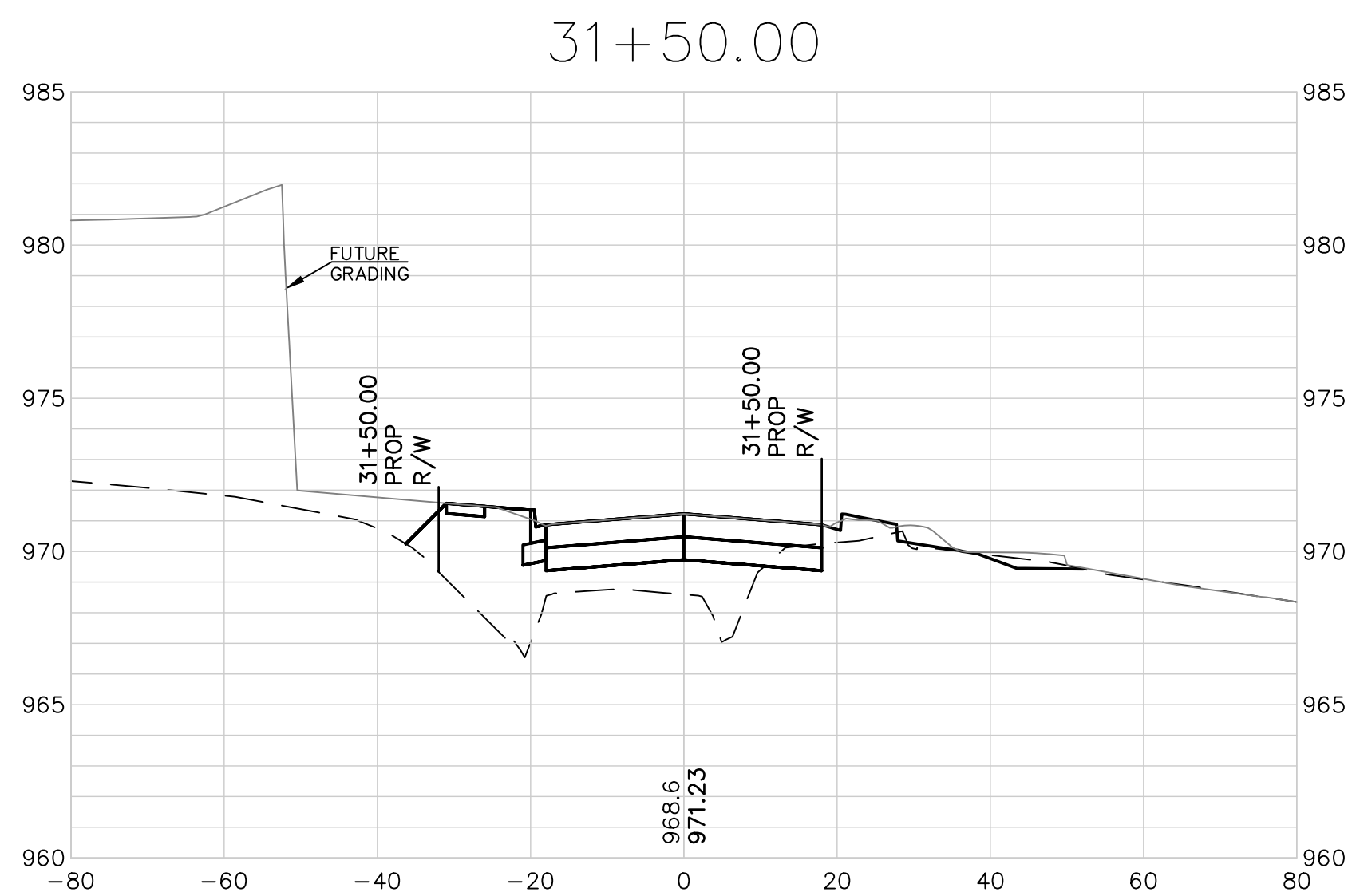
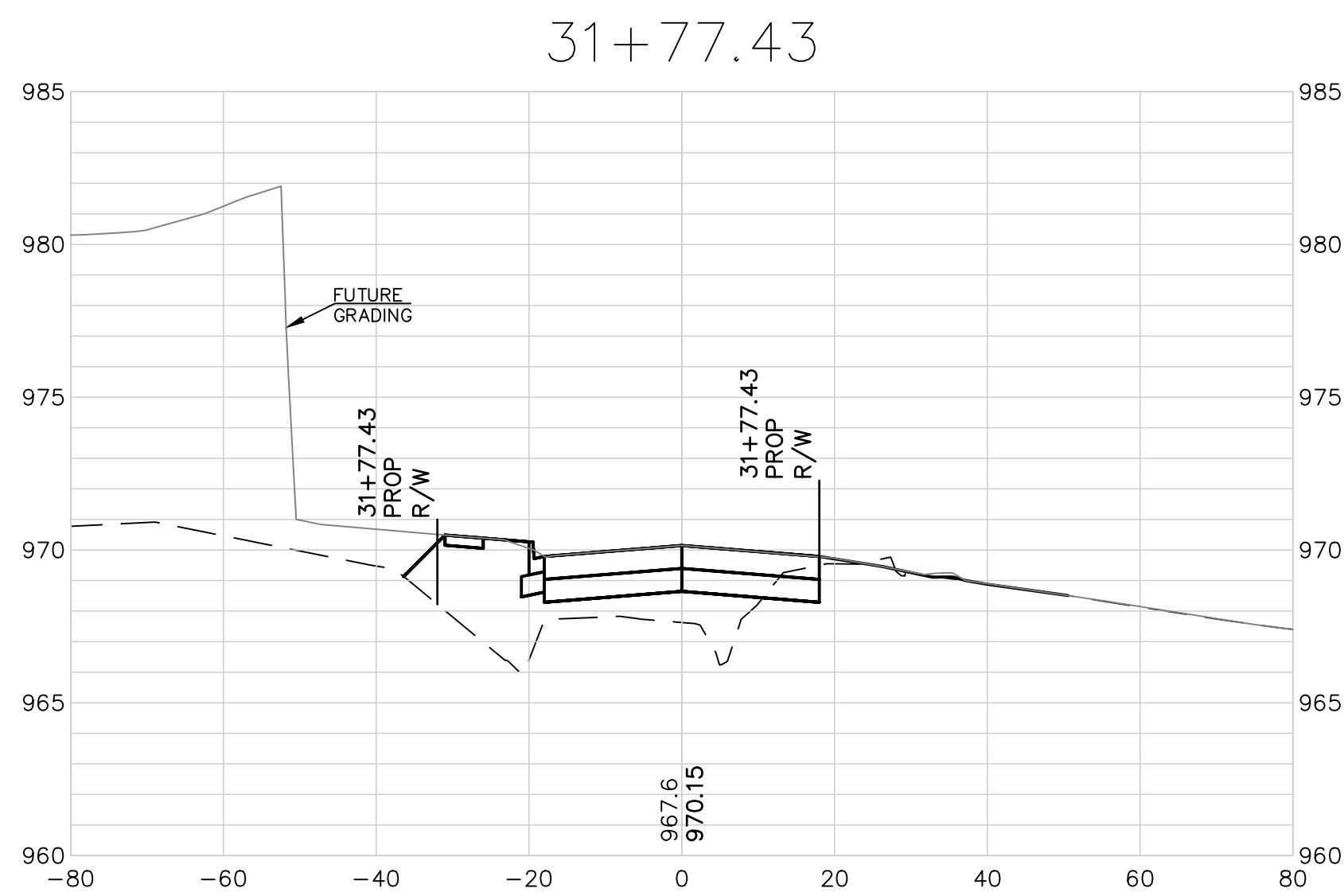


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joe@kveeng.com | www.kveeng.com
KAW VALLEY ENGINEERING
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES IN MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842.
EXPIRES 12/31/19

STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI
PUBLIC STREET PLANS
NW LOWENSTEIN DRIVE - CROSS SECTIONS

PROJ. NO.	A14-7067-1
DESIGNER	LDO
CFN	JT/BKR
SHEET	7067-1PI-STPP
34	REV
	1



EXTENSIVE REVISIONS

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

STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

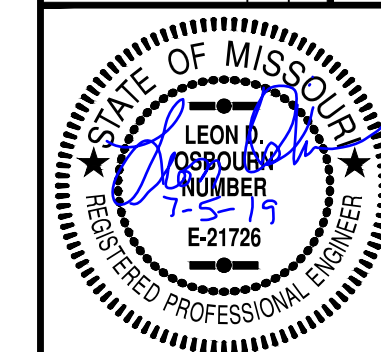
PUBLIC STREET PLANS
NW LOWENSTEIN DRIVE - CROSS SECTIONS

PROJ. NO.	A14-7067-1
DESIGNER	LDO
DRAWN BY	JT/BKR
CFN	7067-1PI-STPP
SHEET	35
REV	1

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KAW VALLEY ENGINEERING

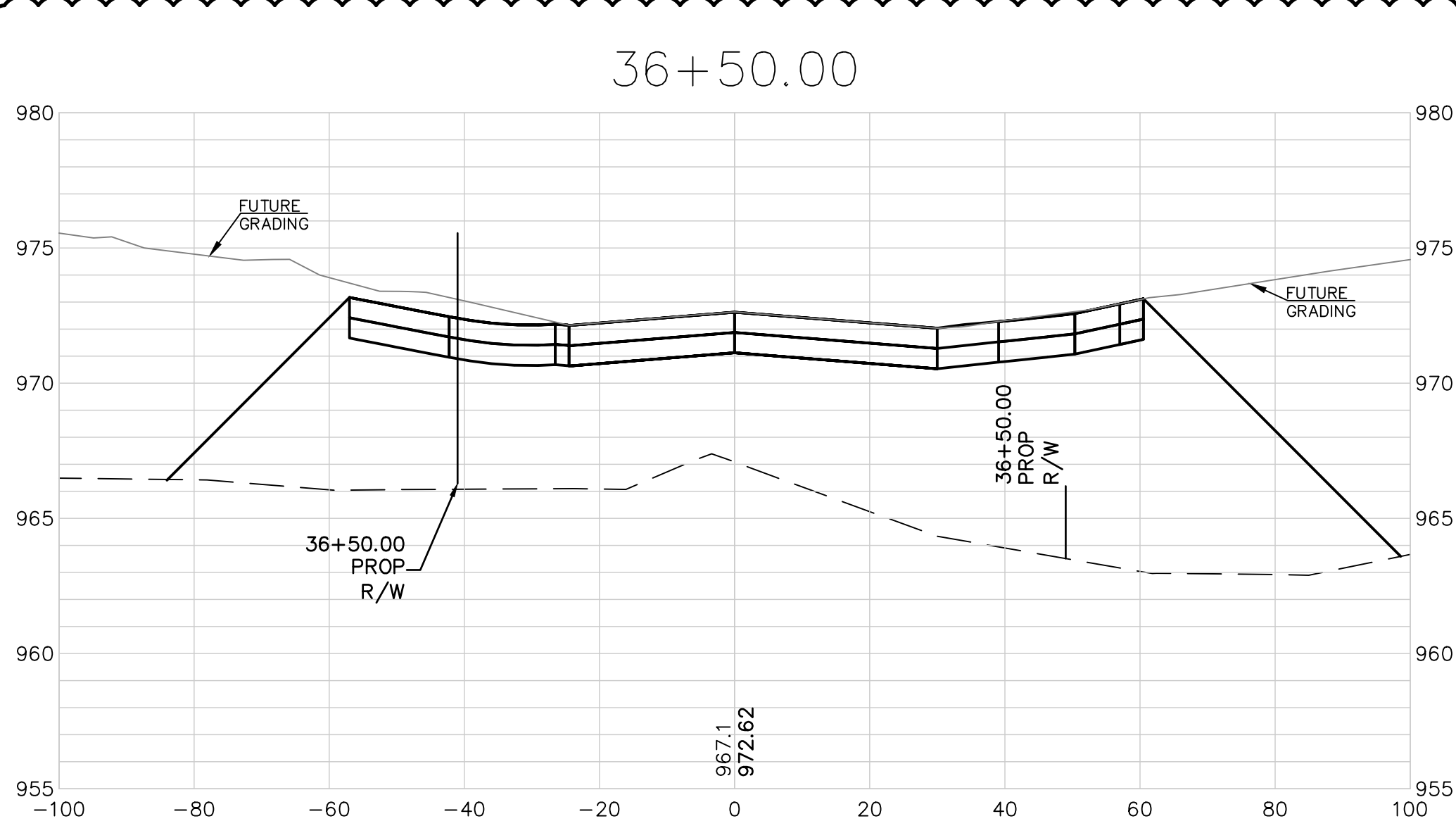
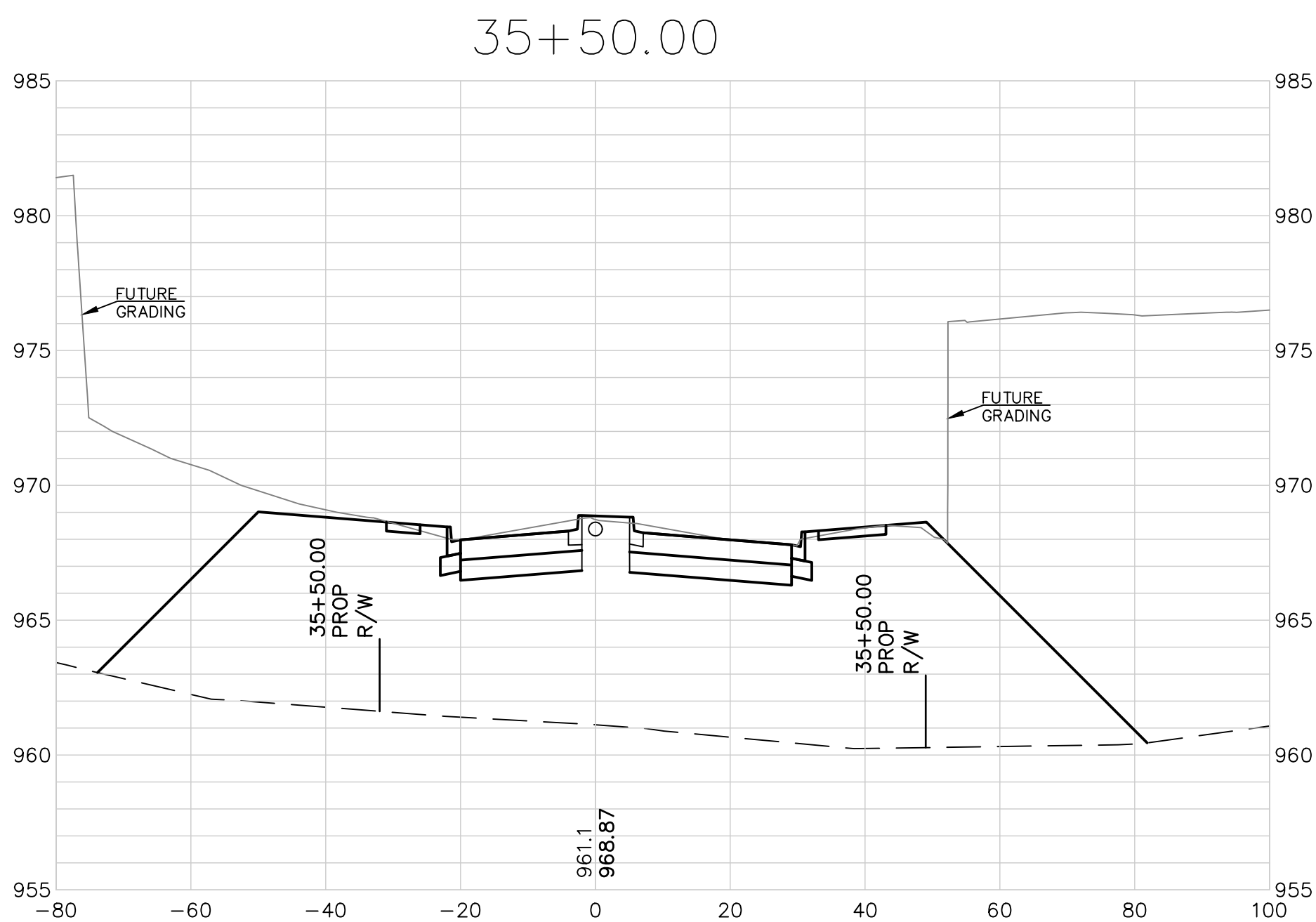
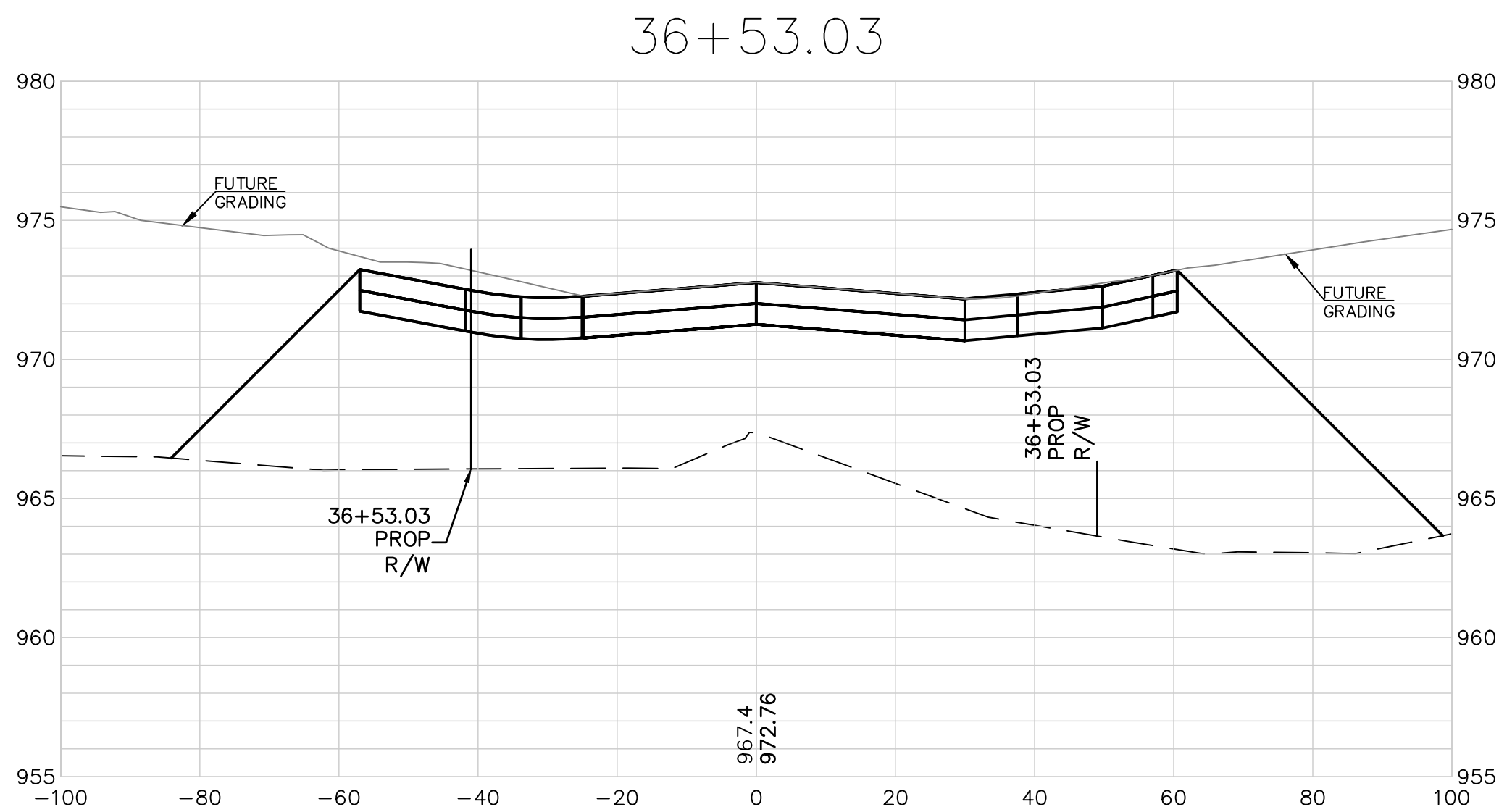
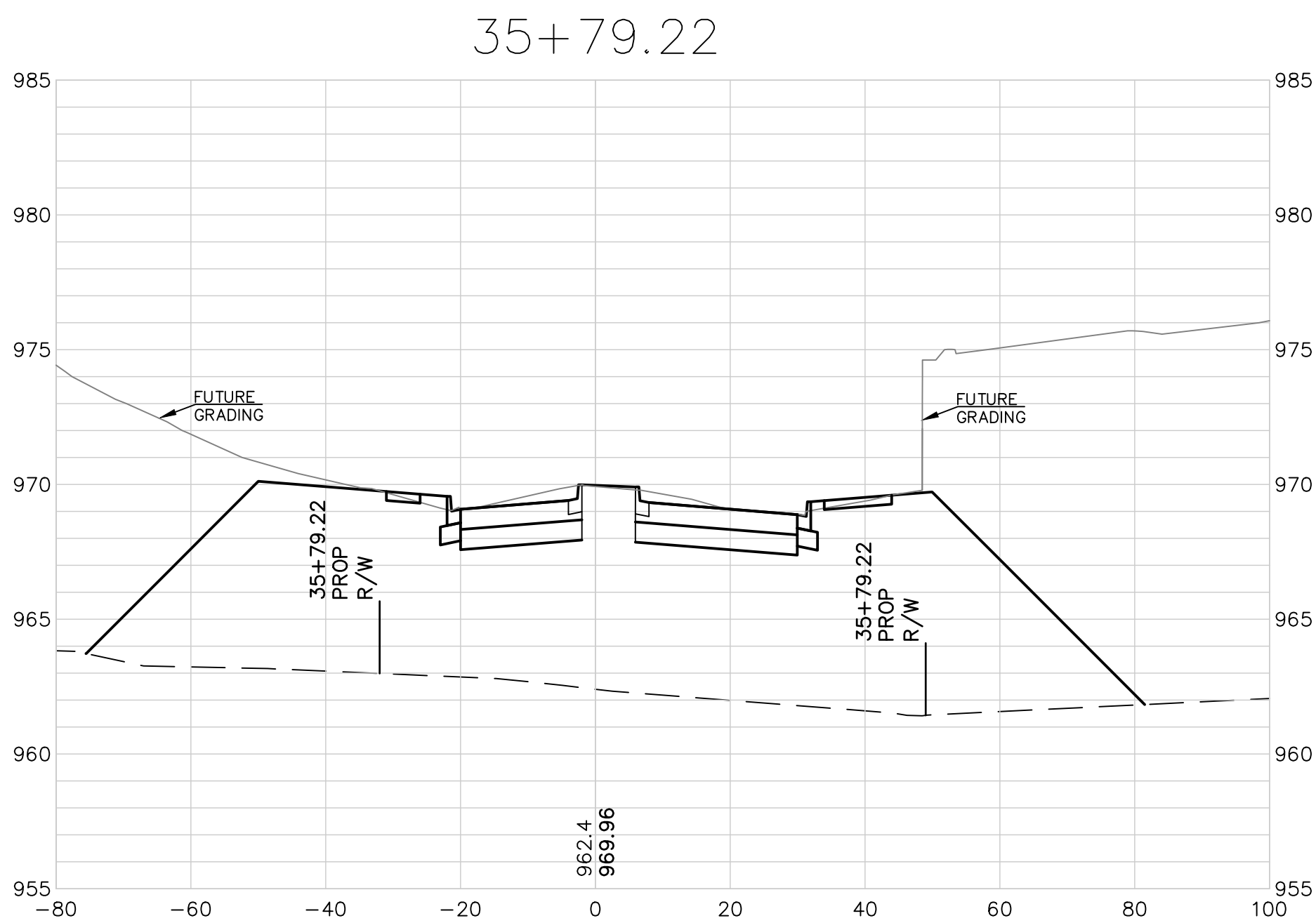
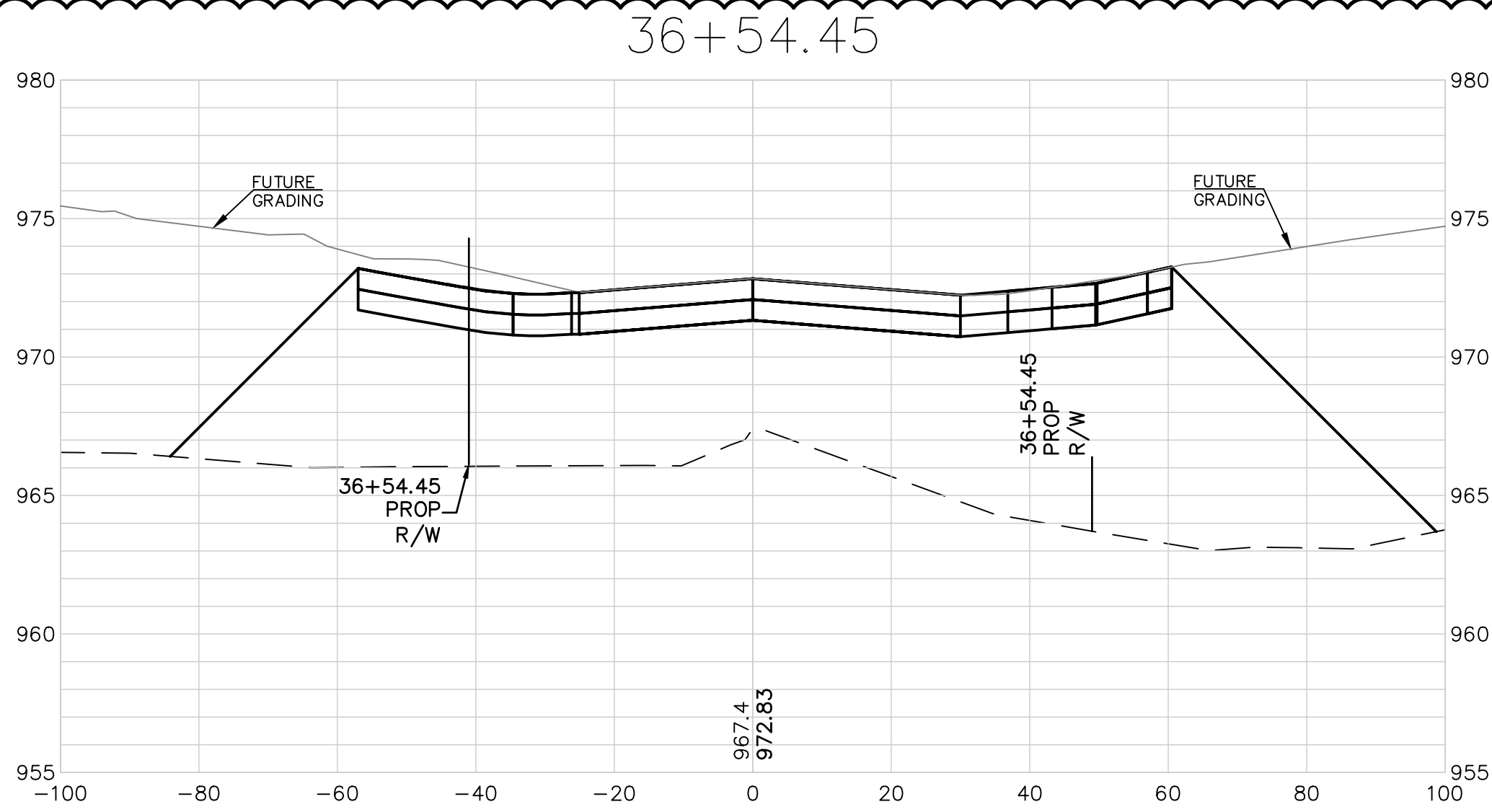
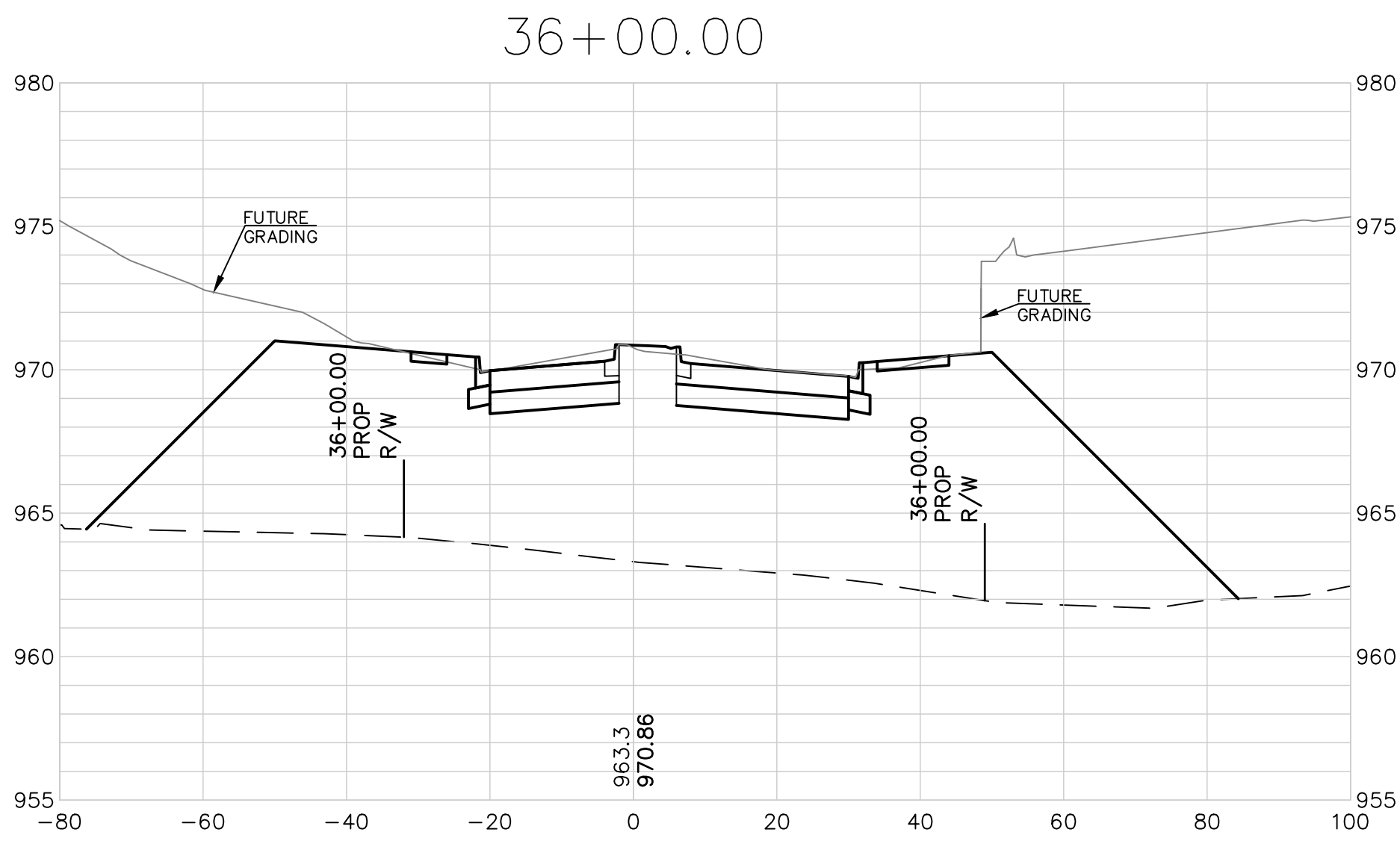
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES IN THE STATE OF MISSOURI
EXPIRES 12/31/19



LEON D. OSBOURN
ENGINEER
MO # 021726

REV	DATE	DESCRIPTION
0	01-11-19	INITIAL ISSUE
1	5-16-19	REVISED PER CITY COMMENTS

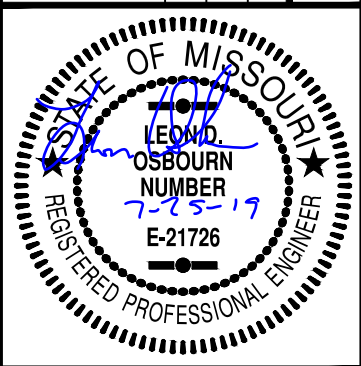
	LDO	JT	LDO
	DSN	DWN	CHK



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	CHK
2	7-25-19	REVISED PER CITY COMMENTS	LDO
1	5-18-19	REVISED PER CITY COMMENTS	LDO
0	01-11-19	INITIAL ISSUE	LDO

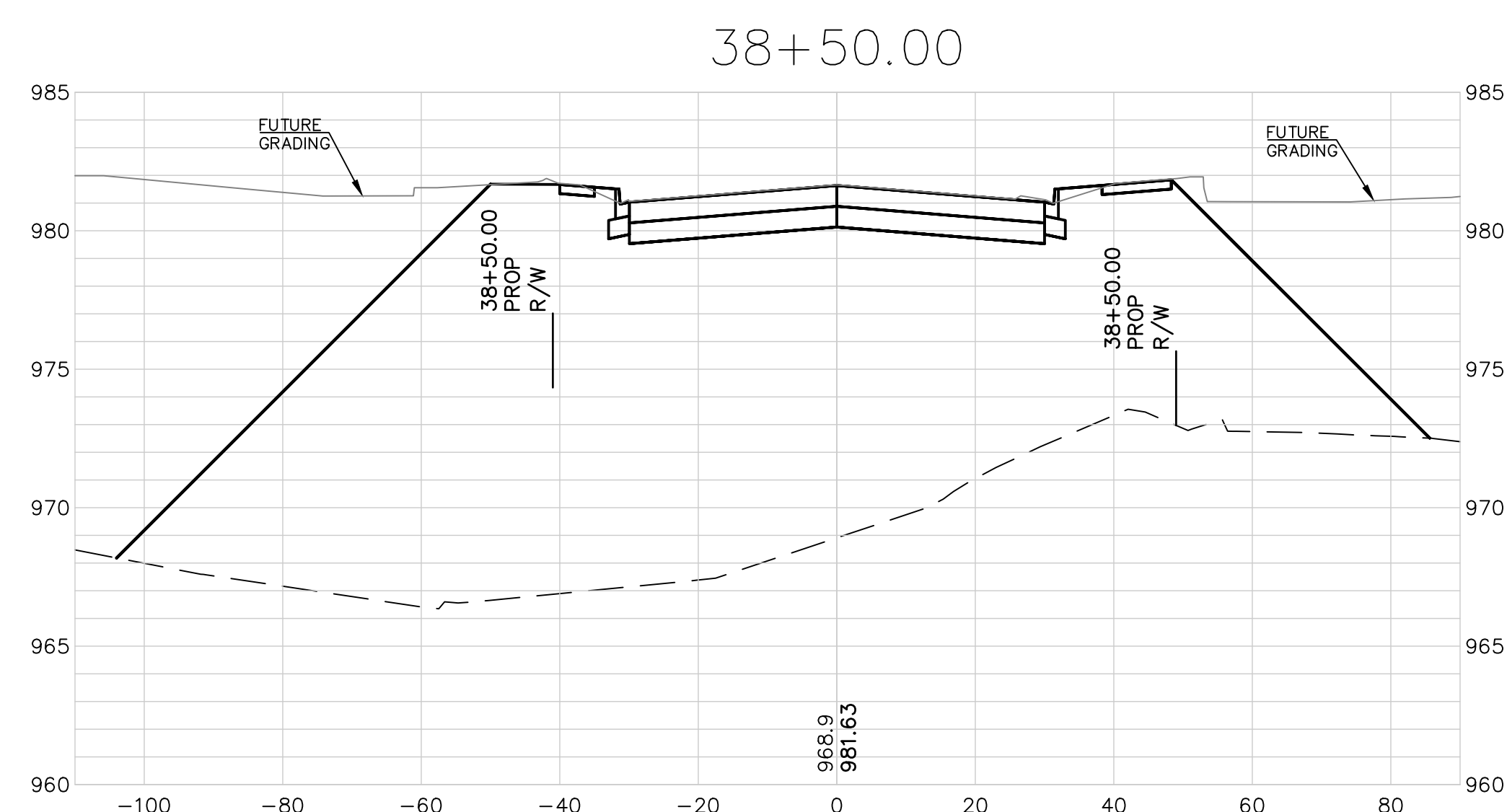
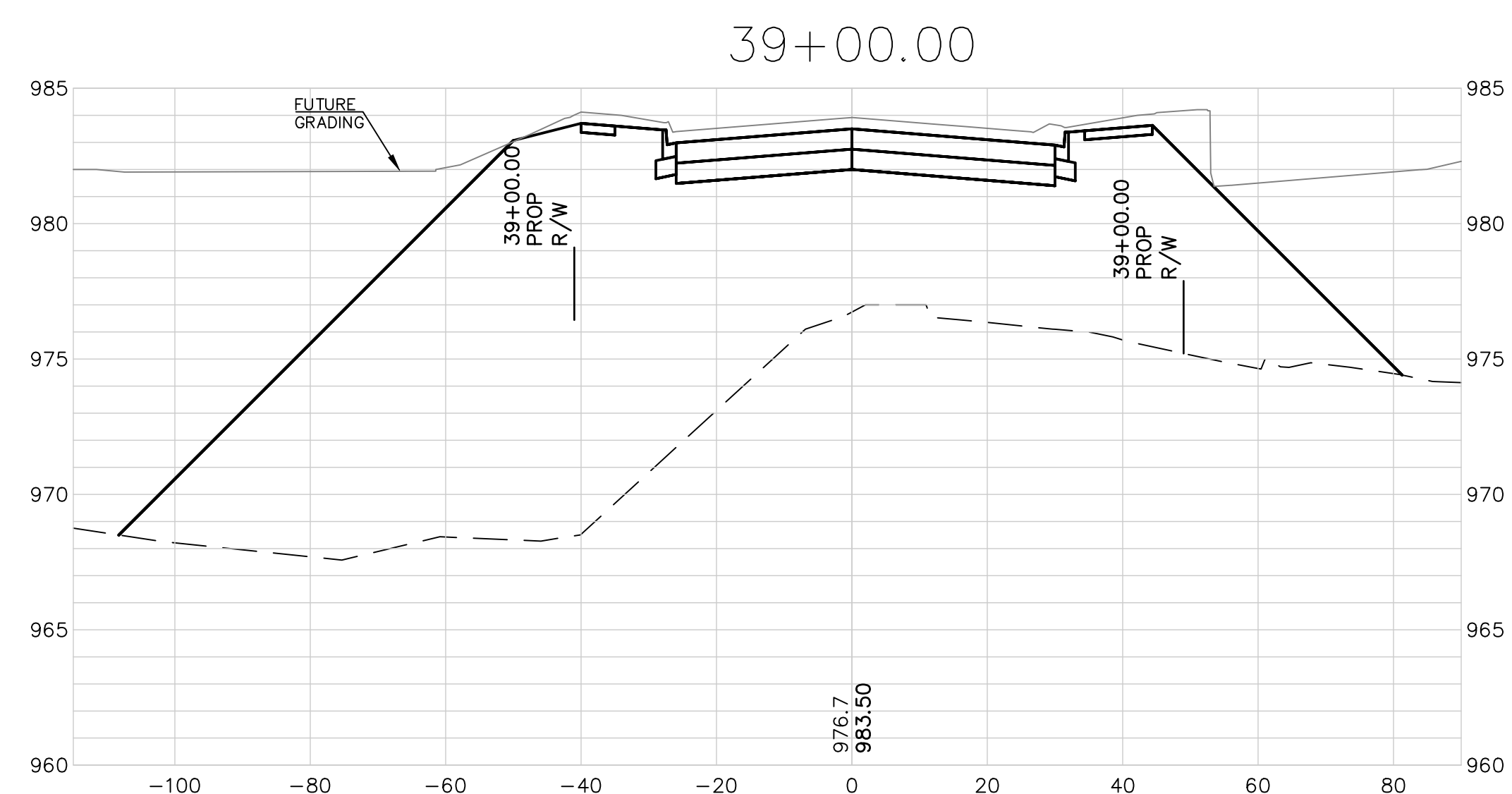
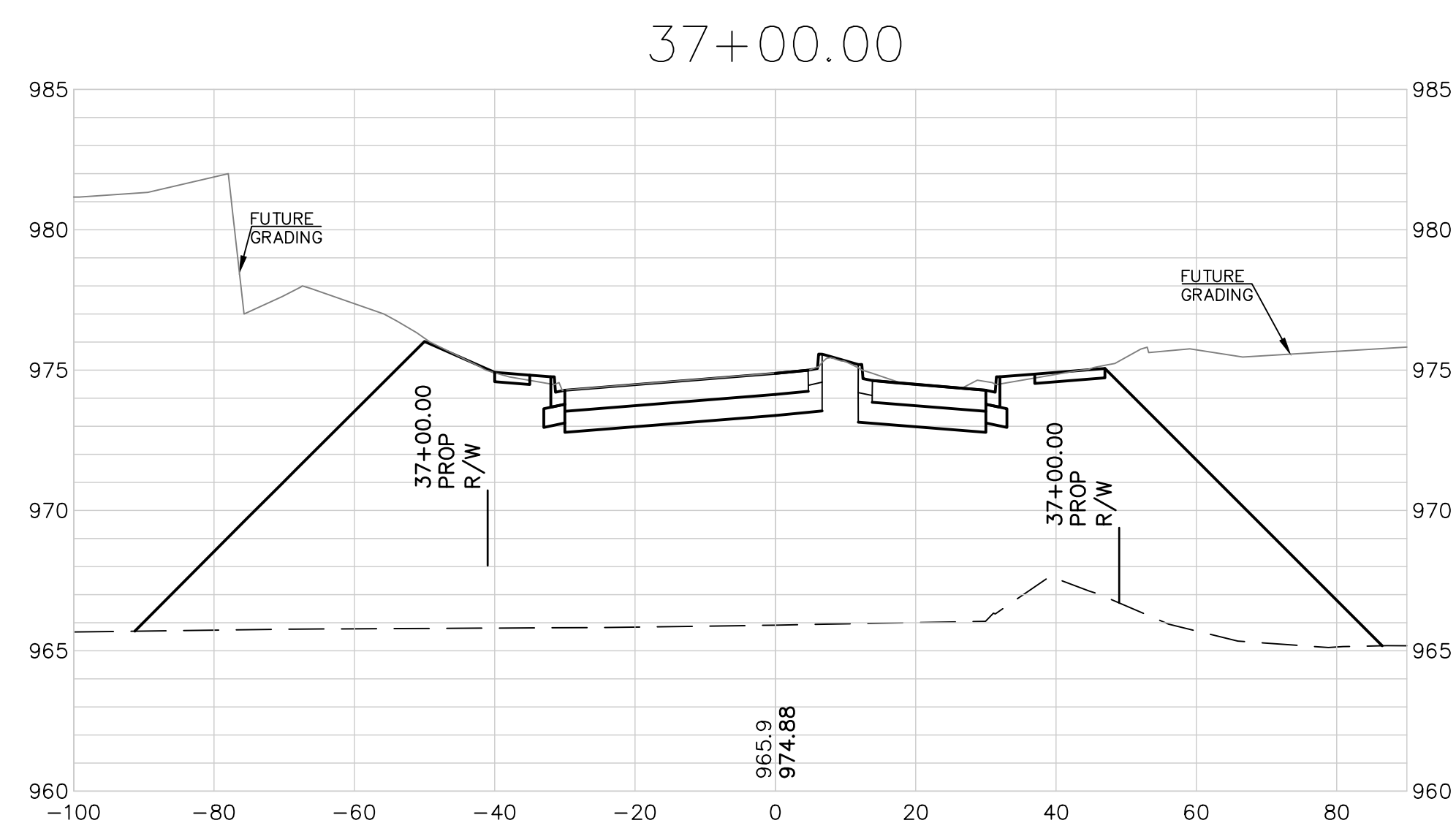
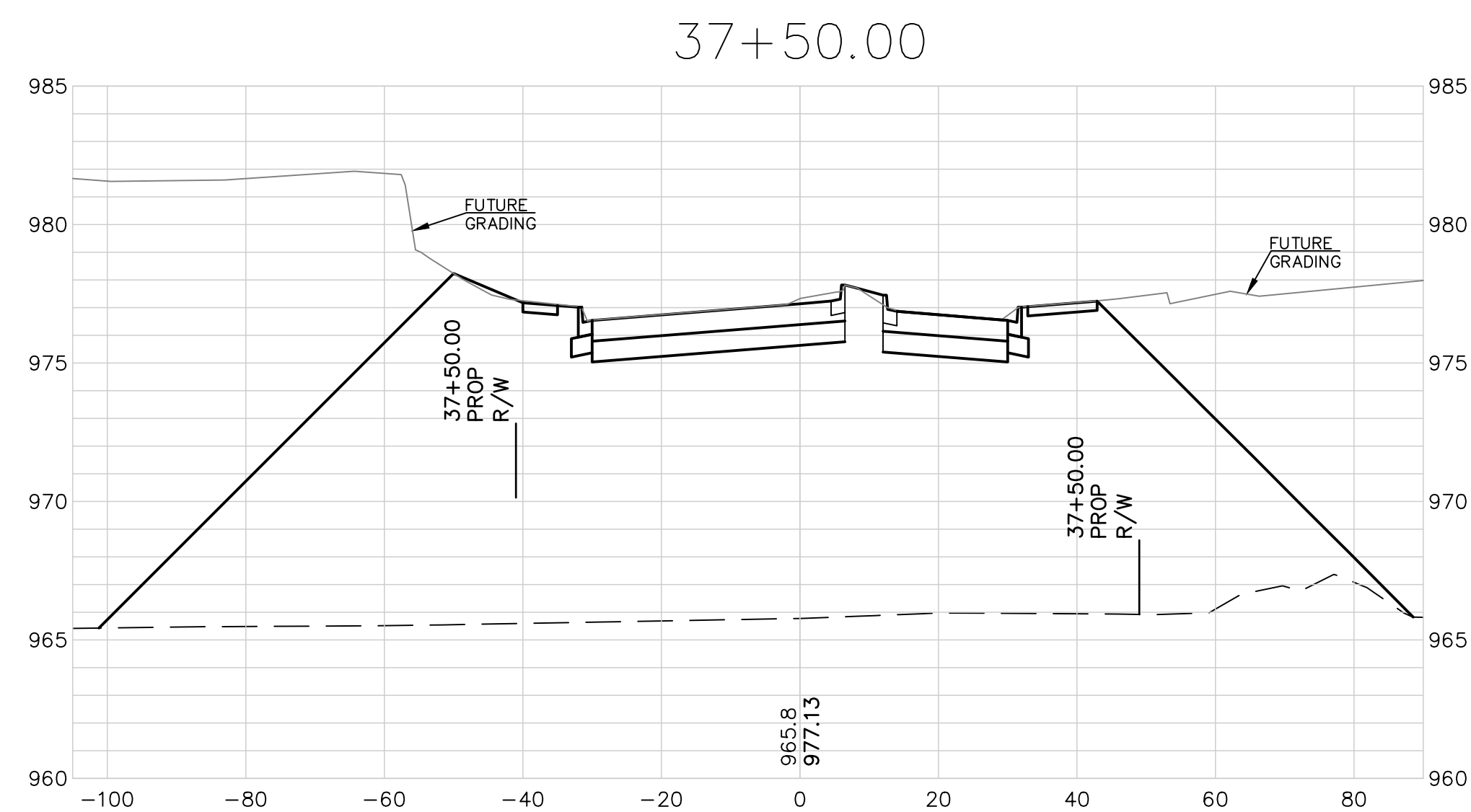
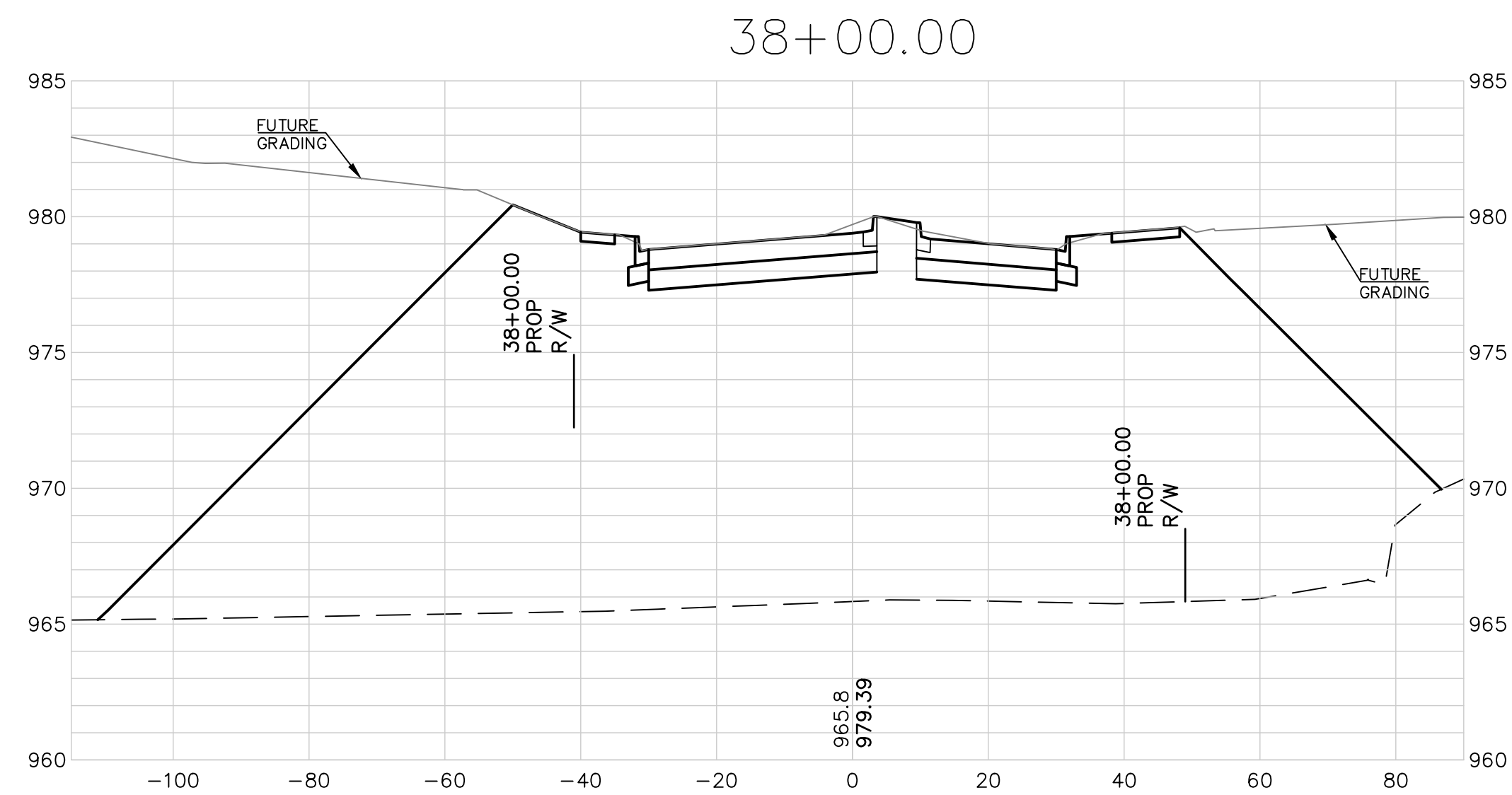


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joe@kveeng.com | www.kveeng.com
KAW VALLEY ENGINEERING
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING
SERVICES IN MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842.
EXPIRES 12/31/19

STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI
PUBLIC STREET PLANS
NW LOWENSTEIN DRIVE - CROSS SECTIONS

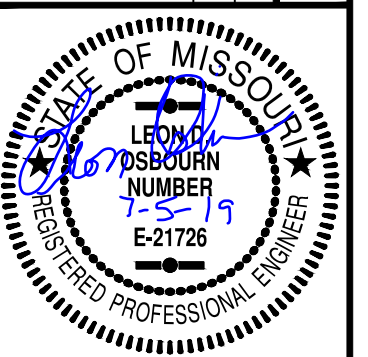
PROJ. NO.	A14-7067-1
DESIGNER	LDO
DRAWN BY	JT/BKR
CFN	7067-1PI-STPP
SHEET	37
REV	2



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

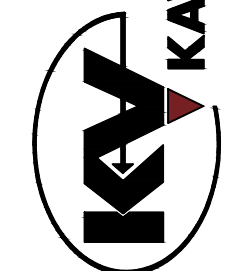
EXTENSIVE REVISIONS

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

[illegible]

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js@kveeng.com | www.kveeng.com

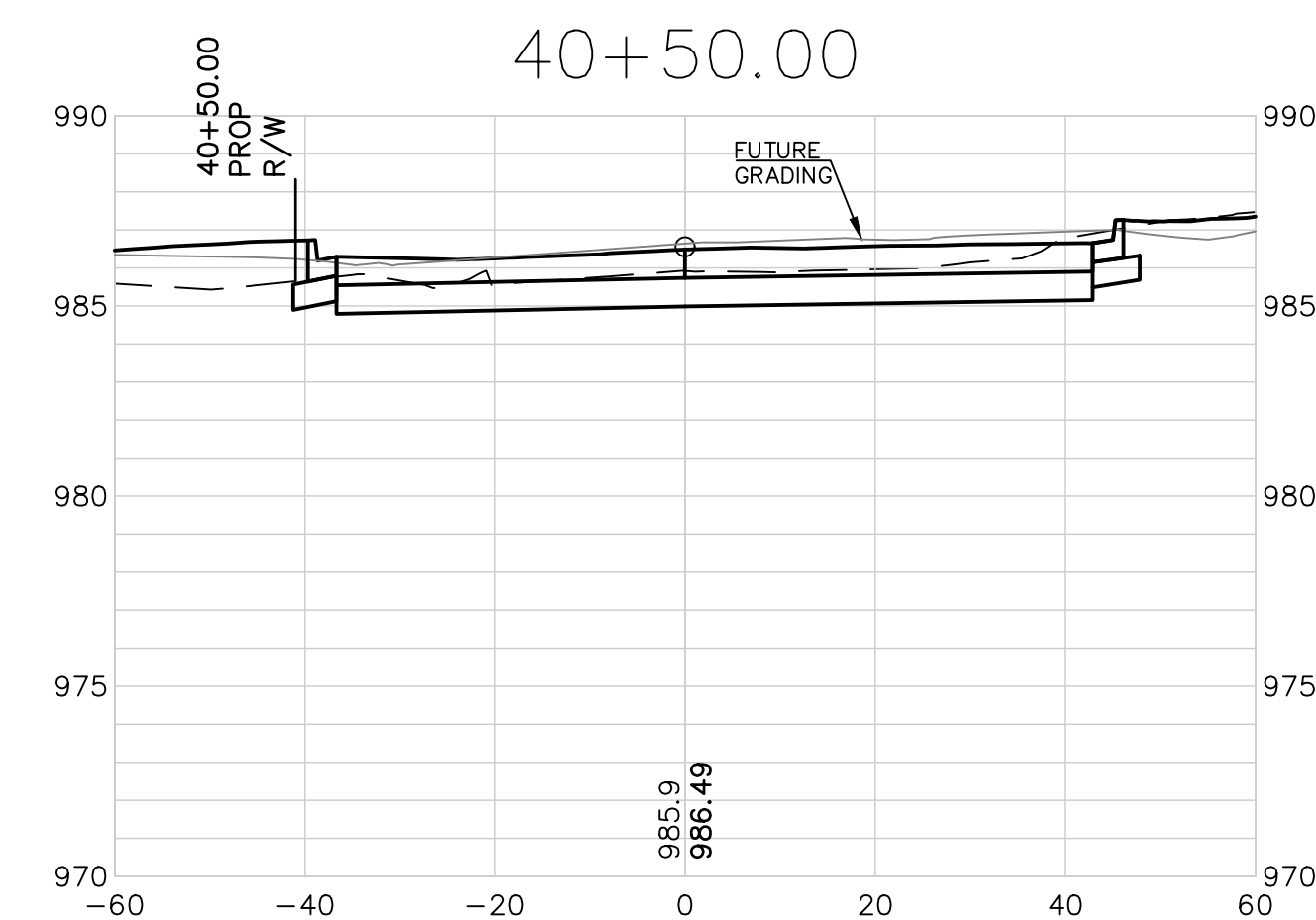
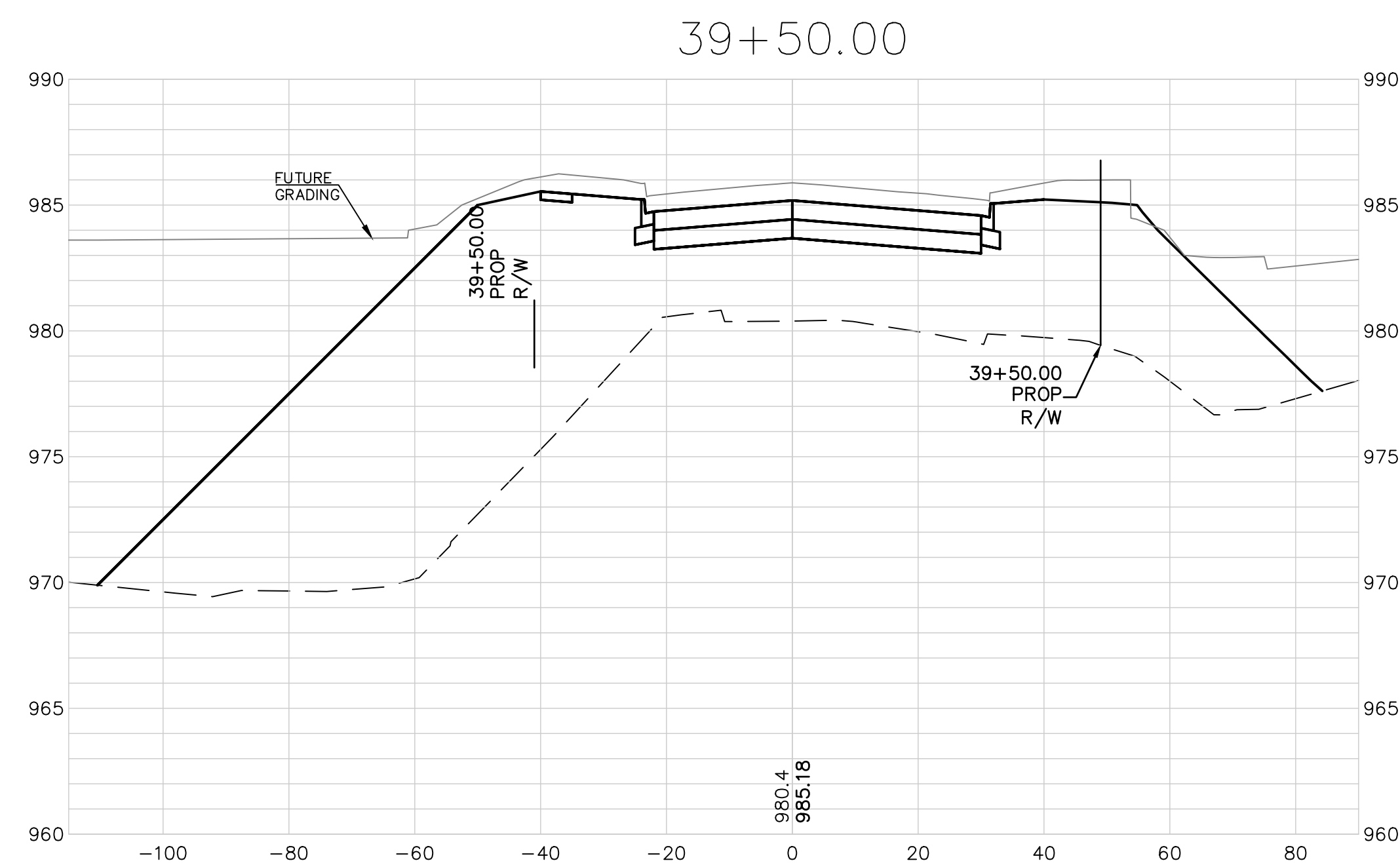
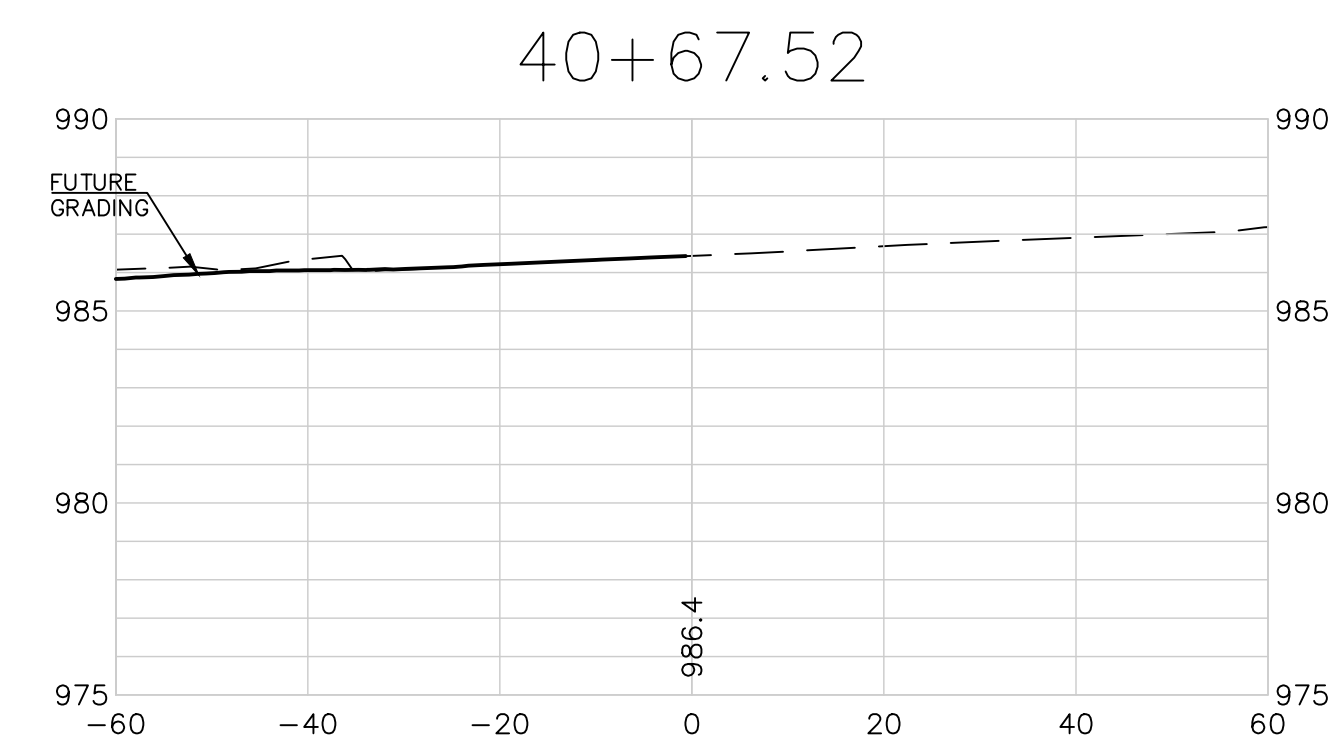
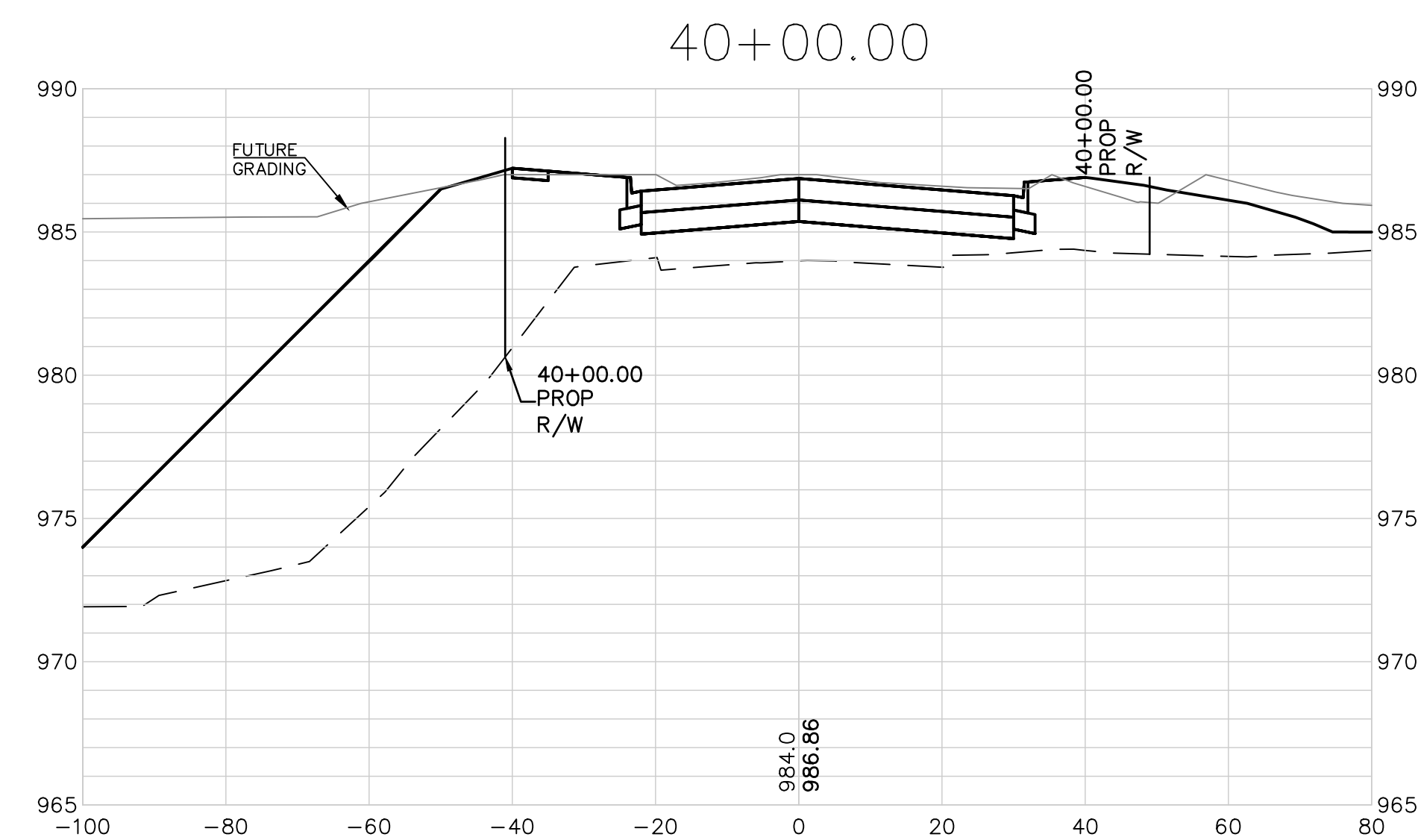
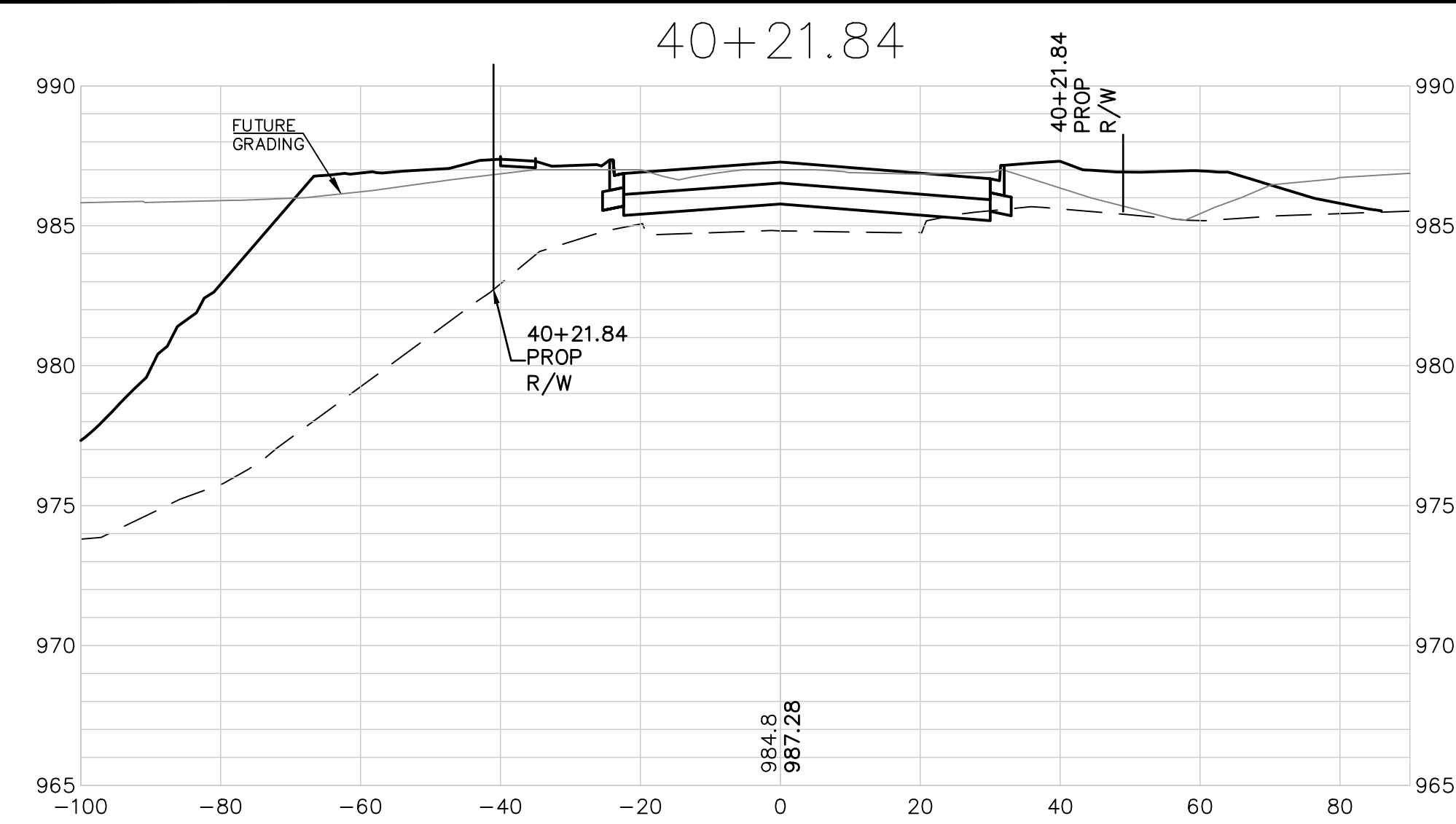


KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842.
EXPIRES 12/31/19

STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

PUBLIC STREET PLANS
NW LOWENSTEIN DRIVE - CROSS SECTIONS

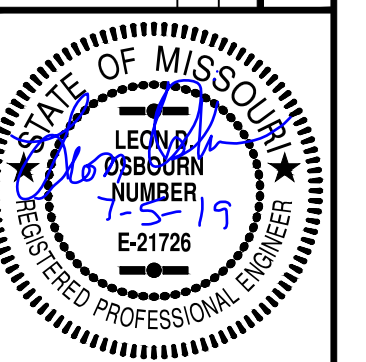
PROJ. NO.	
A14_7067-1	
DESIGNER	DRAWN BY
LDO	JT/BKR
CFN	
7067-1PI_STPP	
SHEET	REV
38	1



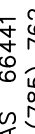
EXTENSIVE REVISIONS

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

REV	DATE	DESCRIPTION	DSN	DWN	CHK
1	5-16-19	REVISED PER CITY COMMENTS	LDO	JT	LDO
0	01-11-19	INITIAL ISSUE	LDO	JT	LDO



LEON D. OSBOURN
ENGINEER
MO # 021726

 **KAW VALLEY ENGINEERING**

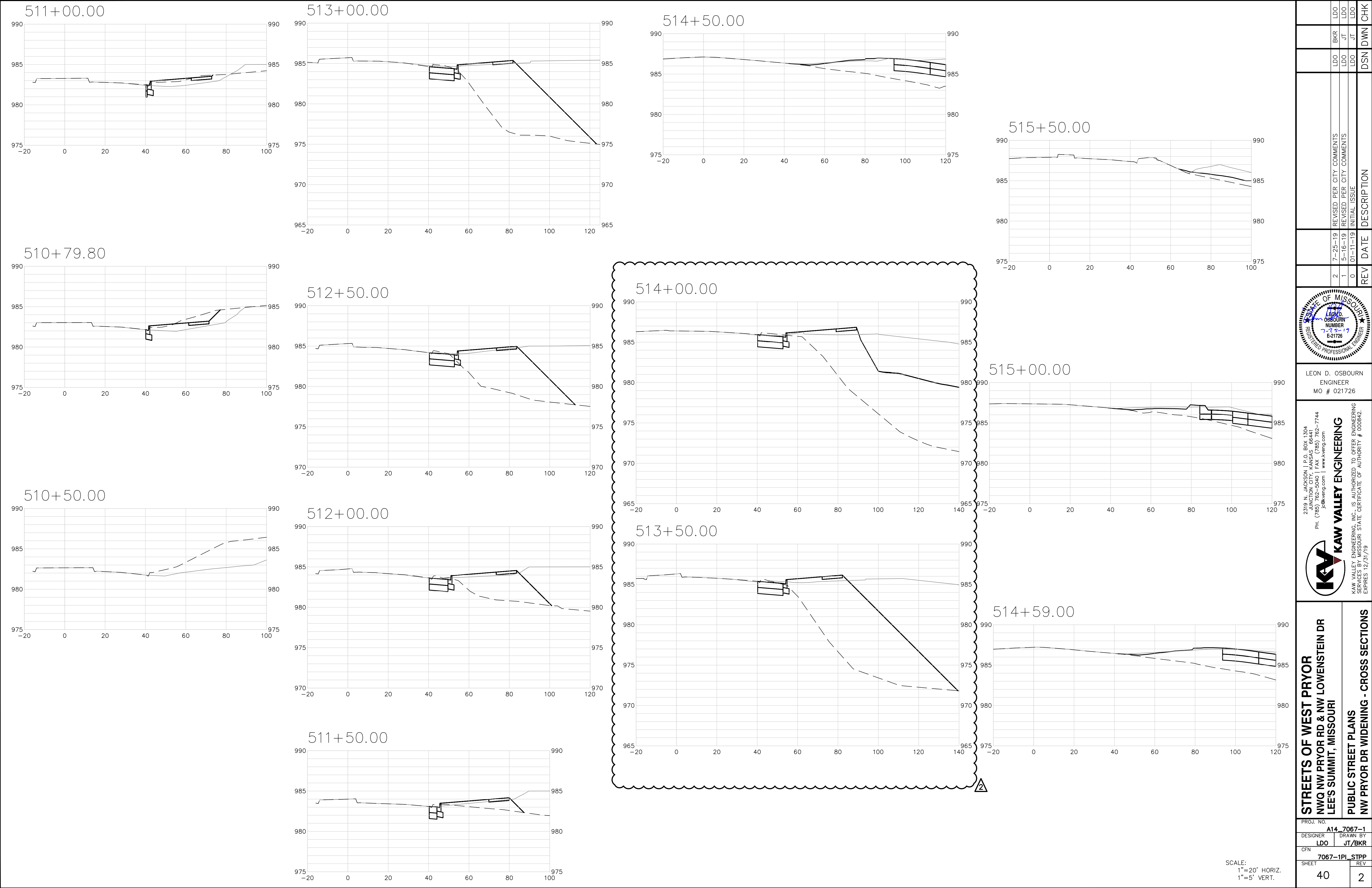
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EXPIRES 12/31/19

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p-kveeng.com | www.kveeng.com

STREETS OF WEST PRYOR
NWQW NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

PUBLIC STREET PLANS
NWQW LOWENSTEIN DRIVE - CROSS SECTIONS

PROJ. NO.	
A14_7067-1	
DESIGNER	DRAWN BY
LDO	JT/BKR
CFN	
7067-1PI_STPP	
SHEET	REV
39	1



514+00.00

513+50.00

514+59.00

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jke@kveg.com | www.kveg.com

STATE OF MISSOURI

LEON D. OSBOURN

REGISTERED PROFESSIONAL ENGINEER

E-21726

LEON D. OSBOURN
ENGINEER
MO # 021726

STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

PUBLIC STREET PLANS
NW PRYOR DR WIDENING - CROSS SECTIONS

PROJ. NO.
A14-7067-1

DESIGNER
LDO

CFN
7067-1PI-STPP

SHEET
40

DRAWN BY
JT/BKR

REV
2

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

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