

# CONSTRUCTION PLANS FOR SANITARY SEWER IMPROVEMENTS TO SERVE STREETS OF WEST PRYOR LEE'S SUMMIT, MISSOURI

APRIL 2019  
RECORD DRAWINGS

ELECTRIC- SERVICE  
KCP&L  
NATHAN MICHAEL  
(913) 347-4310  
Nathan.Michael@kcp.com

COMMUNICATION SERVICE  
AT&T  
CARRIE CILKE  
(816) 703-4386  
cc3527@att.com

GAS SERVICE  
SPIRE  
KATIE DARNELL  
(816) 969-2247  
Katie.Darnell@spireenergy.com

COMMUNICATION SERVICE  
TIME WARNER CABLE  
STEVE BAXTER  
(913) 643-1928  
Steve.Baxter@charter.com

WATER, SANITARY/STORM SEWER SERVICE  
CITY OF LEE'S SUMMIT  
KENT MONTER  
(816) 969-1900  
Kent.Monter@cityofls.net

COMMUNICATION SERVICE  
COMCAST  
RYAN ALKIRE  
(816) 795-2218  
Ryan.Alkire@cable.comcast.com

COMMUNICATION SERVICE  
GOOGLE FIBER  
BECKY DAVIS  
(913) 725-8745  
KC-Google-UC@google.com  
rebeccadavis@google.com



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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 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**

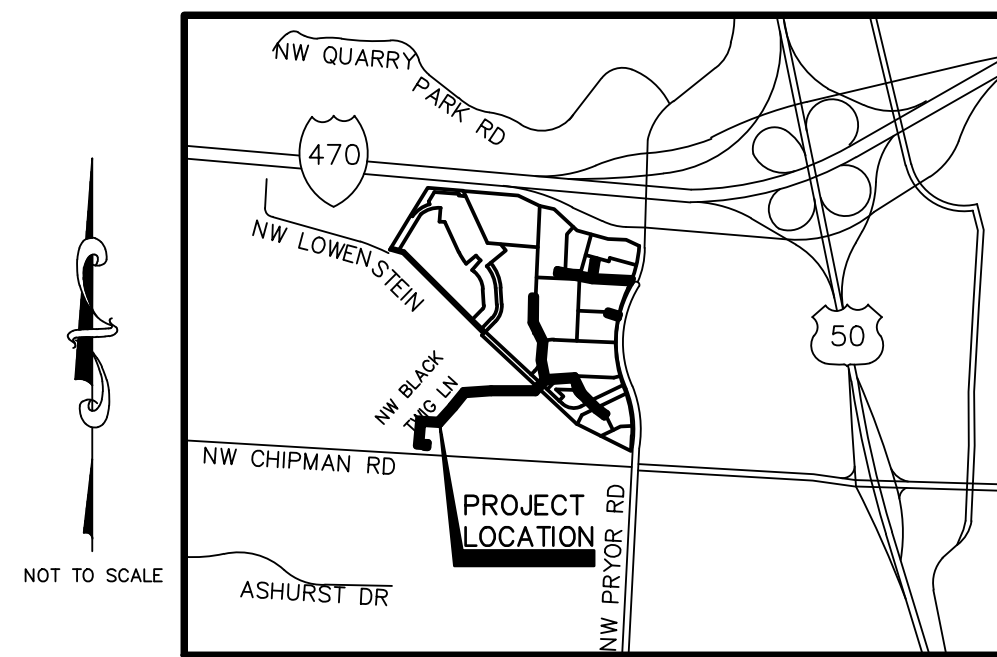
THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANT THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT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

**Summary of Quantities  
Sanitary Sewer**

Item No.	Item	Estimated Quantity	Unit
1	Connect to Existing Manhole	3	Ea.
2	8" Sanitary Sewer Main	414	L.F.
3	8" Sanitary Sewer Main (Private)	218	L.F.
4	Manhole (Less than 10')	8	Ea.
5	Manhole (10-15')	8	Ea.
6	Manhole (10-15' - Private)	1	Ea.
7	Manhole (greater than 15')	4	Ea.
8	Drop Manhole	2	Ea.

**Erosion Control**

Item No.	Item	Estimated Quantity	Unit
1	Erosion Control Devices, Straw Wattles	1,439	L.F.
2	Erosion Control Devices, Sedimentation Fence	661	L.F.
3	Erosion Control Devices, Curb Inlet Protection	3	Ea.
4	Erosion Control Devices, Temporary Construction Entrance	3	Ea.
5	Seed	3.18	AC



LOCATION MAP  
CITY OF LEE'S SUMMIT, MISSOURI

Accepted  
Record Drawings

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

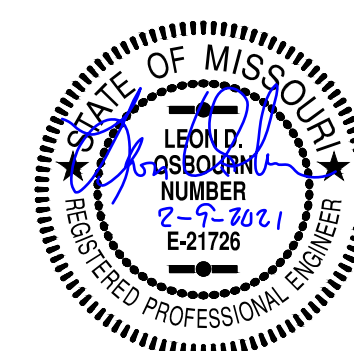
APPROVED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_

OWNER: MATT PENNINGTON

APPROVED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_

CITY APPROVAL

I HAVE REVIEWED THE AS-BUILT INFORMATION PROVIDED ON THESE RECORD DRAWINGS AND TAKE NO EXCEPTION TO THE INFORMATION PROVIDED ON SEPTEMBER 2, 2020 BY EMERY SAPP AND SONS, INC.



LEON D. OSBOURN  
PROFESSIONAL ENGINEER

**OWNER:**  
STREETS OF WEST PRYOR, LLC  
7200 WEST 132ND STREET  
OVERLAND PARK, KS 66213  
CONTACT: MATT PENNINGTON  
email: matt@drakek.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  
JUNCTION CITY, KS 66441  
785-762-5040  
CONTACT: LEON D OSBOURN  
EMAIL: ldo@kven.com

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AS-BUILT

REV	DATE	DESCRIPTION
4	2-5-21	AS-BUILT PLANS
3	4-15-19	REVISED PER CITY COMMENT
2	2-26-19	REVISED PER CITY COMMENT
1	1-23-19	REVISED PER CITY COMMENT
0	1-8-19	INITIAL ISSUE

LEON D. OSBOURN  
ENGINEER  
MO # 021726

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

**KAW VALLEY ENGINEERING**

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 00664E. EXPIRES 12/31/19

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

**SANITARY SEWER PLANS  
TITLE SHEET**

PROJ. NO.	A14-7067-1
DESIGNER	LDO
DRAWN BY	JT/BKR
CIN	7067-1S_TS
SHEET	C-1
REV	4

LEGEND

△	SECTION CORNER, ORIGIN UNKNOWN UNLESS OTHERWISE NOTED	CO	SANITARY SEWER CLEANOUT
○	MONUMENT FOUND, ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED	⊕	STORM SEWER MANHOLE
⊠	RIGHT-OF-WAY MARKER FOUND	⊕	TELEPHONE SIGN
(D)	DESCRIBED	⊕	TELEPHONE MANHOLE
(M)	MEASURED	⊕	TELEPHONE PEDESTAL
(C)	CALCULATED	— T —	UNDERGROUND TELEPHONE LINE
(P)	PLATTED	⊕	SPUCE BOX
—	STREET SIGN	F <sub>OC</sub>	FIBER OPTIC CABLE SIGN
⊠	CANOPY SUPPORT	— FOC —	UNDERGROUND FIBER OPTIC CABLE
⊕	UTILITY POLE	▽	TRAFFIC CONTROL POLE
LP	UTILITY POLE W/ LIGHT	⊕	PULL BOX
⊕	UTILITY POLE W/TRANSFORMER	FP	FLAG POLE
☆	LIGHT POLE	MB	MAILBOX
←	DEADMAN ANCHOR	ADA	HANDICAP SIGN
(5)OU	OVERHEAD UTILITY - # LINES	⊕	HANDICAP PAINTED SYMBOL
⊠	AIR CONDITIONING UNIT	→	LEFT TURN ARROW
⊠	ELECTRIC PEDESTAL	↘	RIGHT TURN ARROW
⊠	ELECTRIC METER	○	GATE POST
⊠	ELECTRIC TRANSFORMER	○	FENCE POST
BB	BREAKER BOX	—	WOOD FENCE
— E —	UNDERGROUND ELECTRIC LINE	—	CHAIN LINK FENCE
⊕	UTILITY MANHOLE	— X —	BARBED WIRE FENCE
⊕	CABLE TV SIGN	18'	DECIDUOUS TREE W/SIZE & DRIP LINE
⊕	CABLE TV PEDESTAL	22'	EVERGREEN TREE W/SIZE & DRIP LINE
⊕	GAS SIGN	SAP	SAPPLING TREE
⊕	GAS METER	⊕	SHRUB
— G —	UNDERGROUND GAS LINE	⊕	STUMP
GTS	GAS CATHODIC PROTECTION STATION	—	TREE LINE
— W —	WATER LINE	⊕	SHRUB LINE
⊕	WATER LINE GATE VALVE	10	PARKING STALL COUNT
WS	WATER SPIGOT	— 970 —	1' CONTOUR INTERVAL
⊕	WATER METER	—	RESTRICTED ACCESS
⊕	WELL	B/B	BACK OF CURB TO BACK OF CURB
⊕	FIRE HYDRANT	E/E	EDGE TO EDGE
SV	SPRINKLER VALVE		
⊕	SANITARY SEWER MANHOLE		
— S —	SANITARY SEWER LINE		

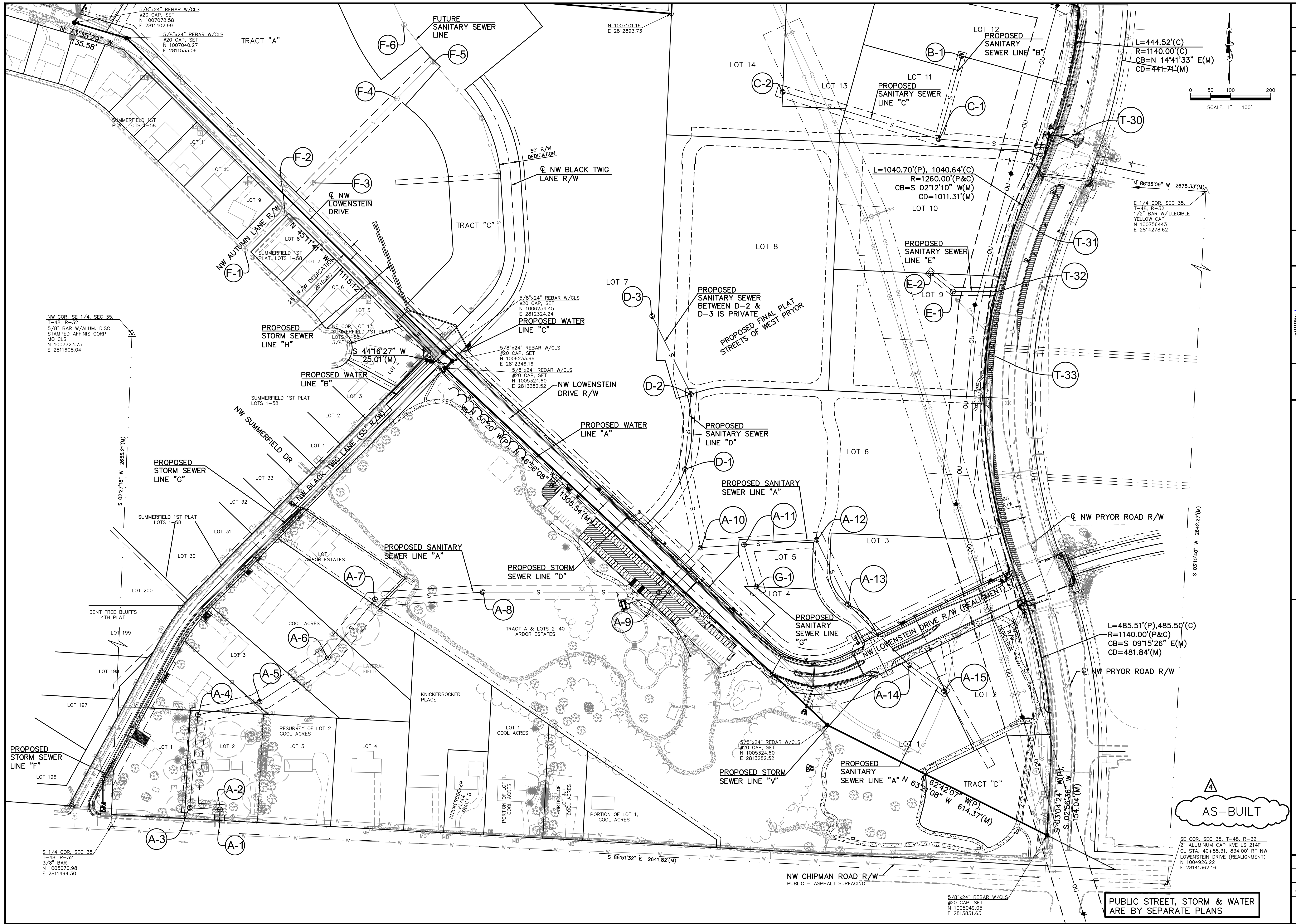
CONSTRUCTION NOTES:

- CONSTRUCTION SHALL CONFORM TO LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.
- CONTRACTOR SHALL NOTIFY DEVELOPMENT ENGINEERING INSPECTION AT 816-969-1200 AT LEAST 48 HOURS PRIOR TO STARTING WORK.
- 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.
- CONTRACTOR SHALL SEED ALL DISTURBED AREAS IN ACCORDANCE TO REQUIREMENTS OF TECHNICAL SPECIFICATIONS.
- PIPE LENGTHS ARE CENTER TO CENTER OF STRUCTURE OR TO END OF END SECTIONS.

		LDO	LDO	
		JT	JT/BKR	
		LDO	LDO	DSN
		LDO	LDO	DWN
		LDO	LDO	CHK
		2-5-21	AS-BUILT PLANS	
		1-23-19	INITIAL ISSUE	
		4	0	REV
		4	0	DATE
				DESCRIPTION
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 jce@kveeng.com   www.kveeng.com				
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 00864E. EXPIRES 12/31/19				
<b>STREETS OF WEST PRYOR</b> <b>NWQ NW PRYOR ROAD &amp; NW LOWENSTEIN DRIVE</b> <b>LEES SUMMIT, MISSOURI</b> <b>SANITARY SEWER PLANS</b> <b>GENERAL NOTES</b>				
PROJ. NO.	A14_7067-1			
DESIGNER	LDO	DRAWN BY	JT/BKR	
CFN	7067-1S_GEN			
SHEET	C-2	REV	4	

AS-BUILT





REV	DATE	DESCRIPTION	DSN	DWN	CHK
0	1-8-19	INITIAL ISSUE	LDO	JT/BKR	LDO
1	1-23-19	REVISED PER CITY COMMENT	LDO	JT	LDO
2	2-26-19	REVISED PER CITY COMMENT	LDO	JT	LDO
3	4-15-19	REVISED PER CITY COMMENT	LDO	JT	LDO
4	2-5-21	AS-BUILT PLANS	LDO	JT	LDO

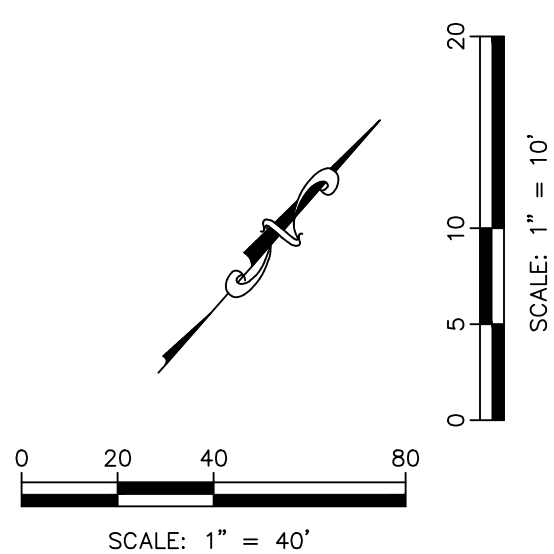
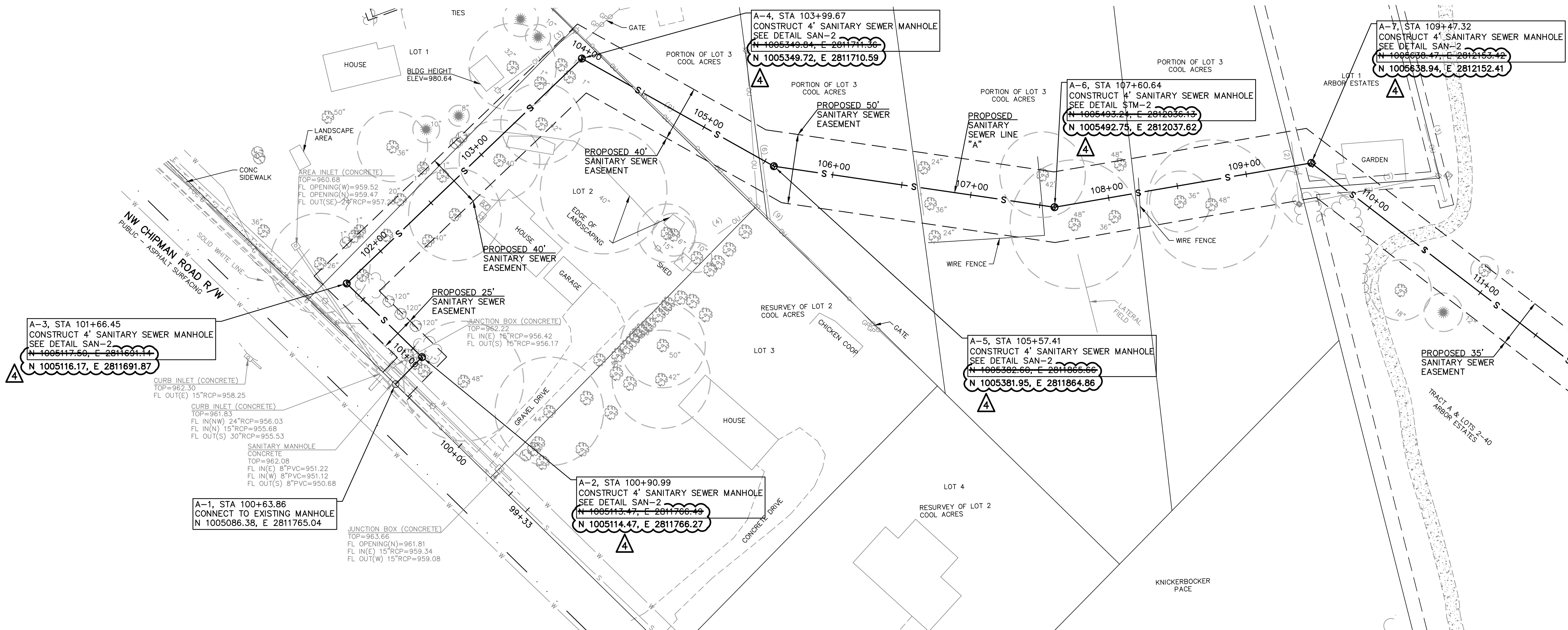
LEON D. OSBOURN ENGINEER MO # 021726	
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<b>SANITARY SEWER PLANS</b> <b>GENERAL LAYOUT SHEET</b>	
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DESIGNER	LDO
DRAWN BY	JT/BKR
CFN	7067-1S_GLS
SHEET	C-3
REV	4

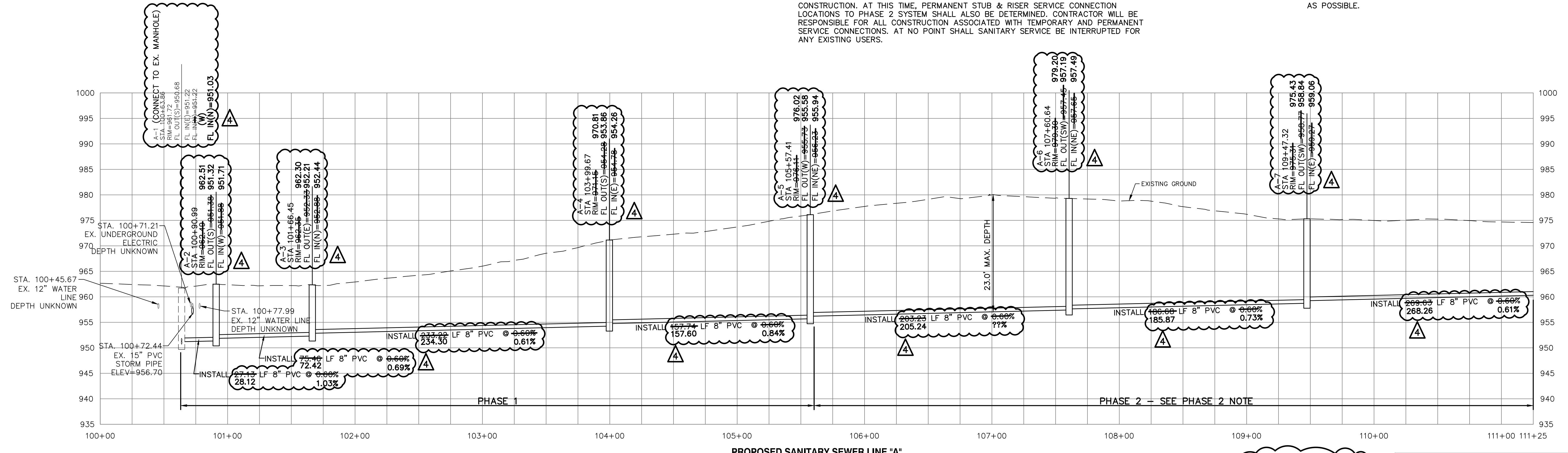
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**PHASE 2 NOTE:**  
 DURING PHASE 1, CONTRACTOR TO CONDUCT FIELD INVESTIGATION TO IDENTIFY AND LOCATE EXISTING SERVICE LINES AND LATERAL FIELD LOCATIONS FOR RESIDENCES LOCATED ALONGSIDE PHASE 2 ALIGNMENT. ONCE IDENTIFIED, CONTRACTOR AND ENGINEER SHALL COORDINATE TO PROVIDE TEMPORARY SERVICE CONNECTION PLAN TO CONNECT RESIDENCES TO PHASE 1 LINE AS NECESSARY DURING PHASE 2 CONSTRUCTION. AT THIS TIME, PERMANENT STUB & RISER SERVICE CONNECTION LOCATIONS TO PHASE 2 SYSTEM SHALL ALSO BE DETERMINED. CONTRACTOR WILL BE RESPONSIBLE FOR ALL CONSTRUCTION ASSOCIATED WITH TEMPORARY AND PERMANENT SERVICE CONNECTIONS. AT NO POINT SHALL SANITARY SERVICE BE INTERRUPTED FOR ANY EXISTING USERS.

**NOTE:**  
 AT EACH WATER LINE CROSSING, THE SANITARY SEWER SHALL BE INSTALLED WITH A MINIMUM VERTICAL CLEAR DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. A FULL LENGTH OF SEWER PIPE SHALL BE LOCATED WITH THE CENTER OF PIPE AT THE CROSSINGS SO THAT BOTH JOINTS ARE AS FAR FROM THE WATERLINE AS POSSIBLE.



AS-BUILT PUBLIC STREET, STORM & WATER ARE BY SEPARATE PLANS

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DRAWN BY	JT/BKR
DATE	7067-1S_SPP
SHEET	C-4
REV	4

**STREETS OF WEST PRYOR**  
 NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE  
 LEES SUMMIT, MISSOURI

**SANITARY SEWER PLANS**  
 SANITARY SEWER LINE A

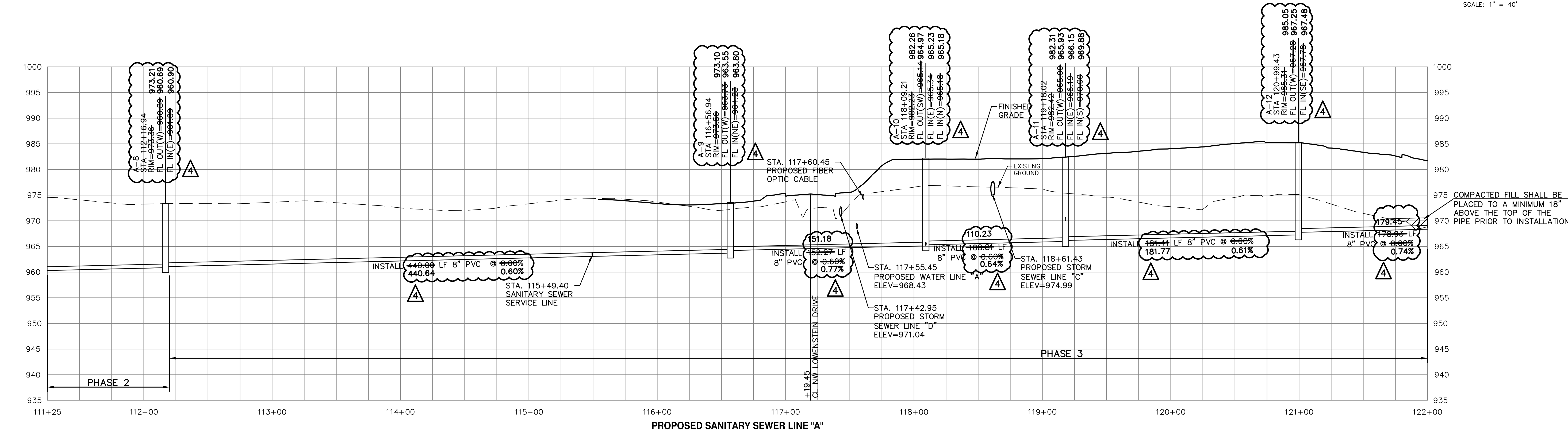
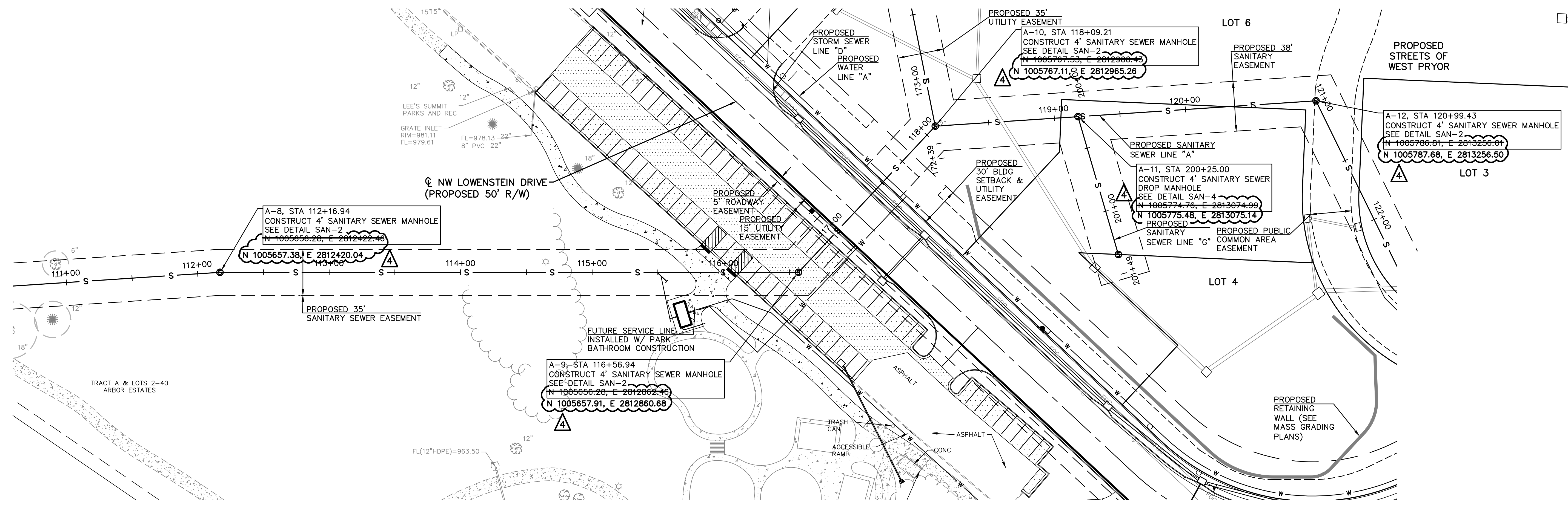
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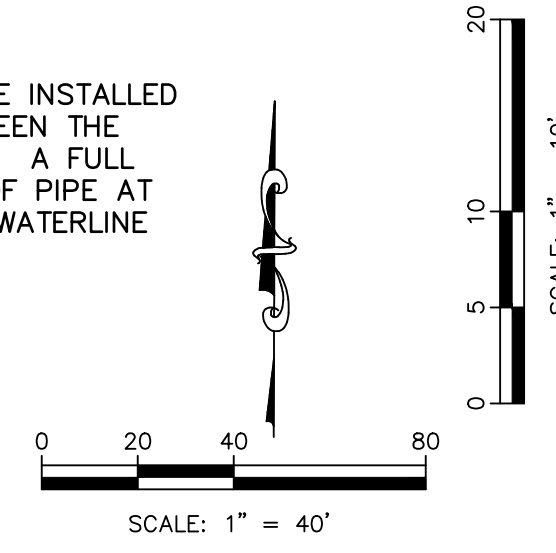
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PROJ. NO.	A14-7067-1
DESIGNER	LDO
DRAWN BY	JT/BKR
DATE	7067-1S_SPP
SHEET	C-5
REV	4

REV	DATE	DESCRIPTION
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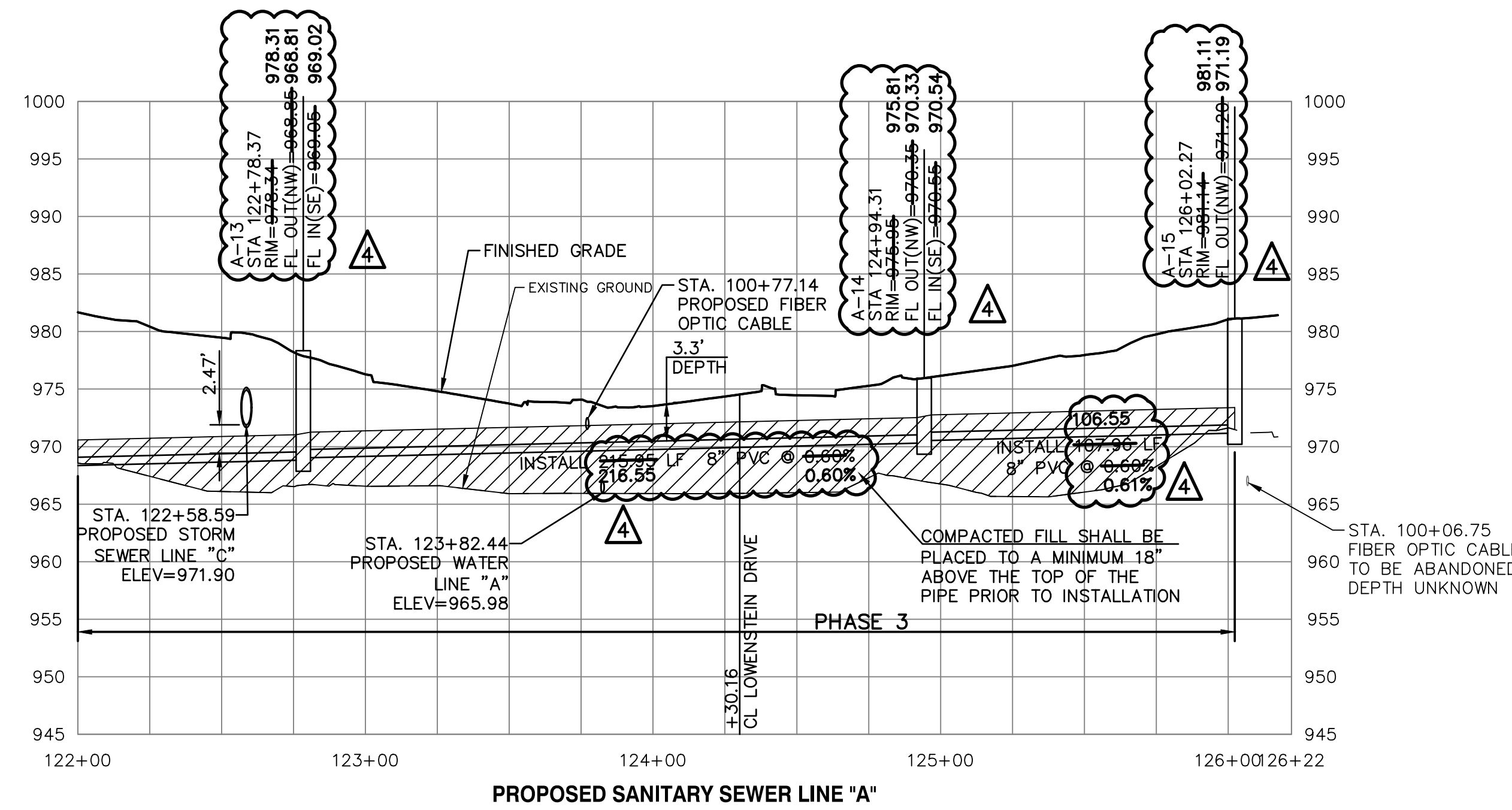
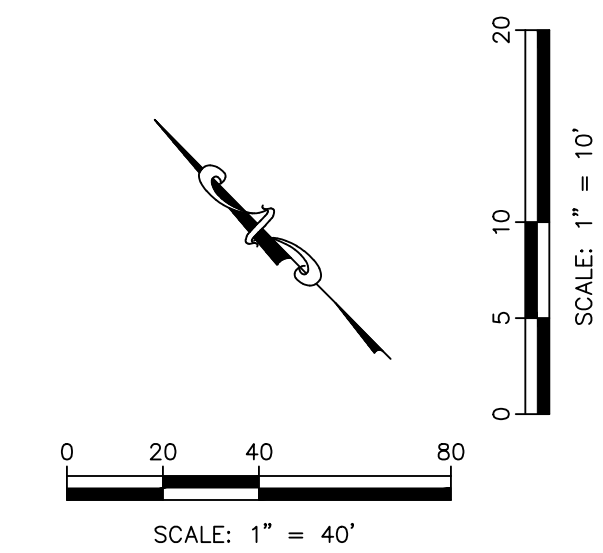
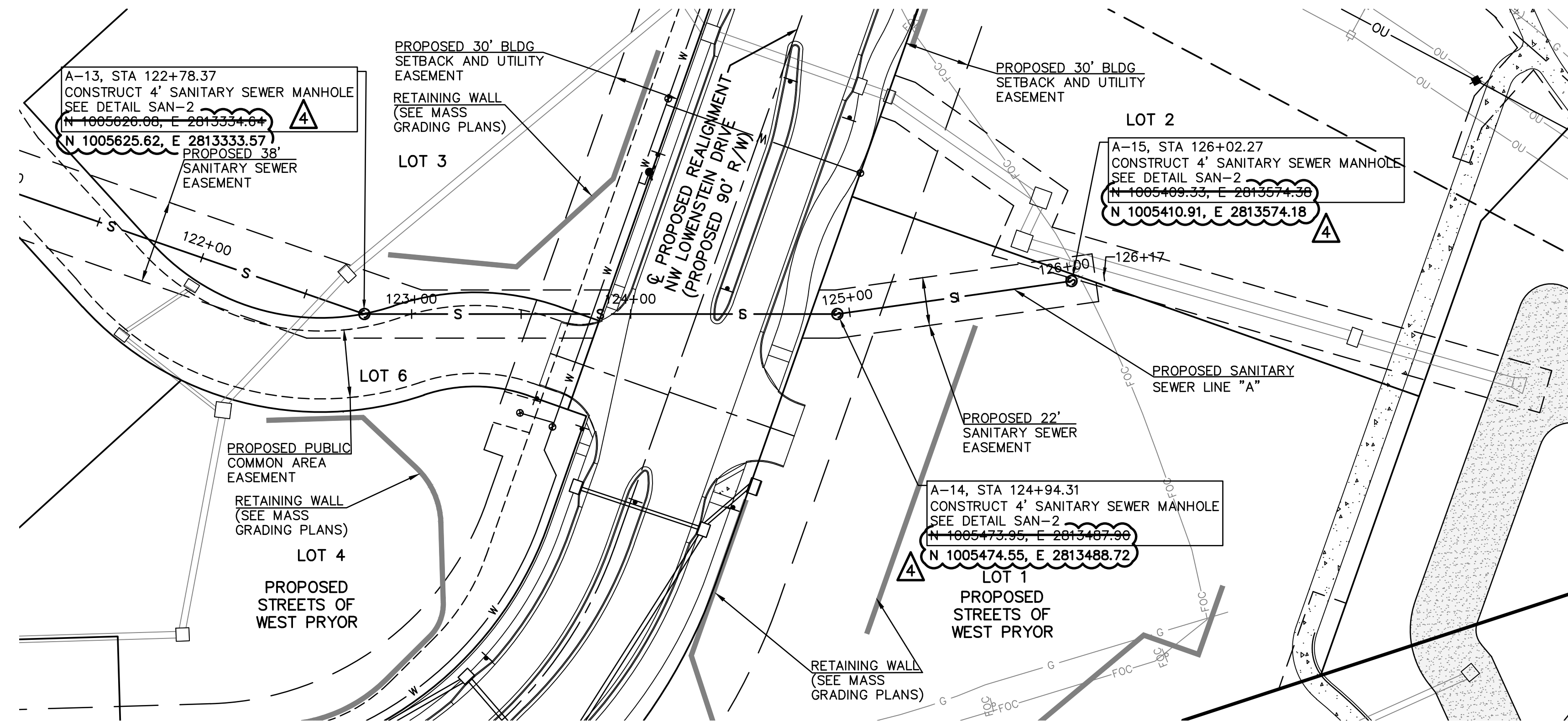
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 NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE  
 LEE'S SUMMIT, MISSOURI  
 SANITARY SEWER PLANS  
 SANITARY SEWER LINE A

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AS-BUILT

PUBLIC STREET, STORM & WATER ARE BY SEPARATE PLANS

PROJ. NO.	A14_7067-1	
DESIGNER	LDO	
DRAWN BY	JT/BKR	
DATE	7/1/2019	
SHEET	C-6	
REV	4	
REV	DATE	DESCRIPTION
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1	1-23-19	REVISED PER CITY COMMENT
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3	4-15-19	REVISED PER CITY COMMENT
4	2-5-21	AS-BUILT PLANS
LDO	JT	LDO
LDO	JT	LDO
LDO	JT	LDO
LDO	JT/BKR	LDO
DSN	DWN	CHK



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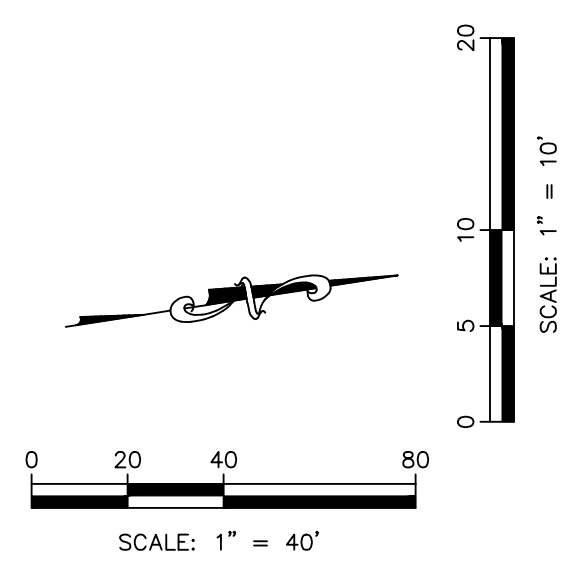
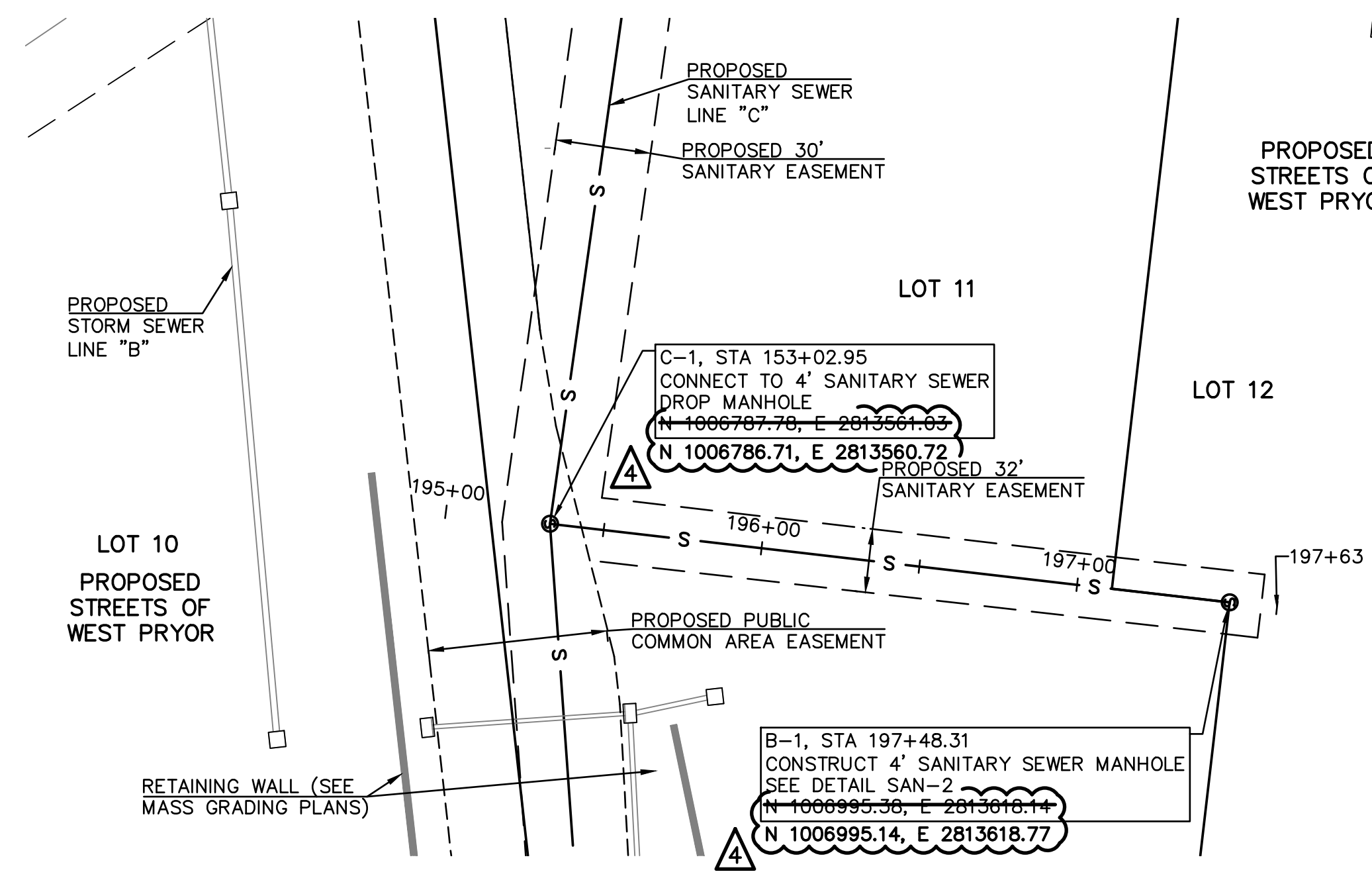
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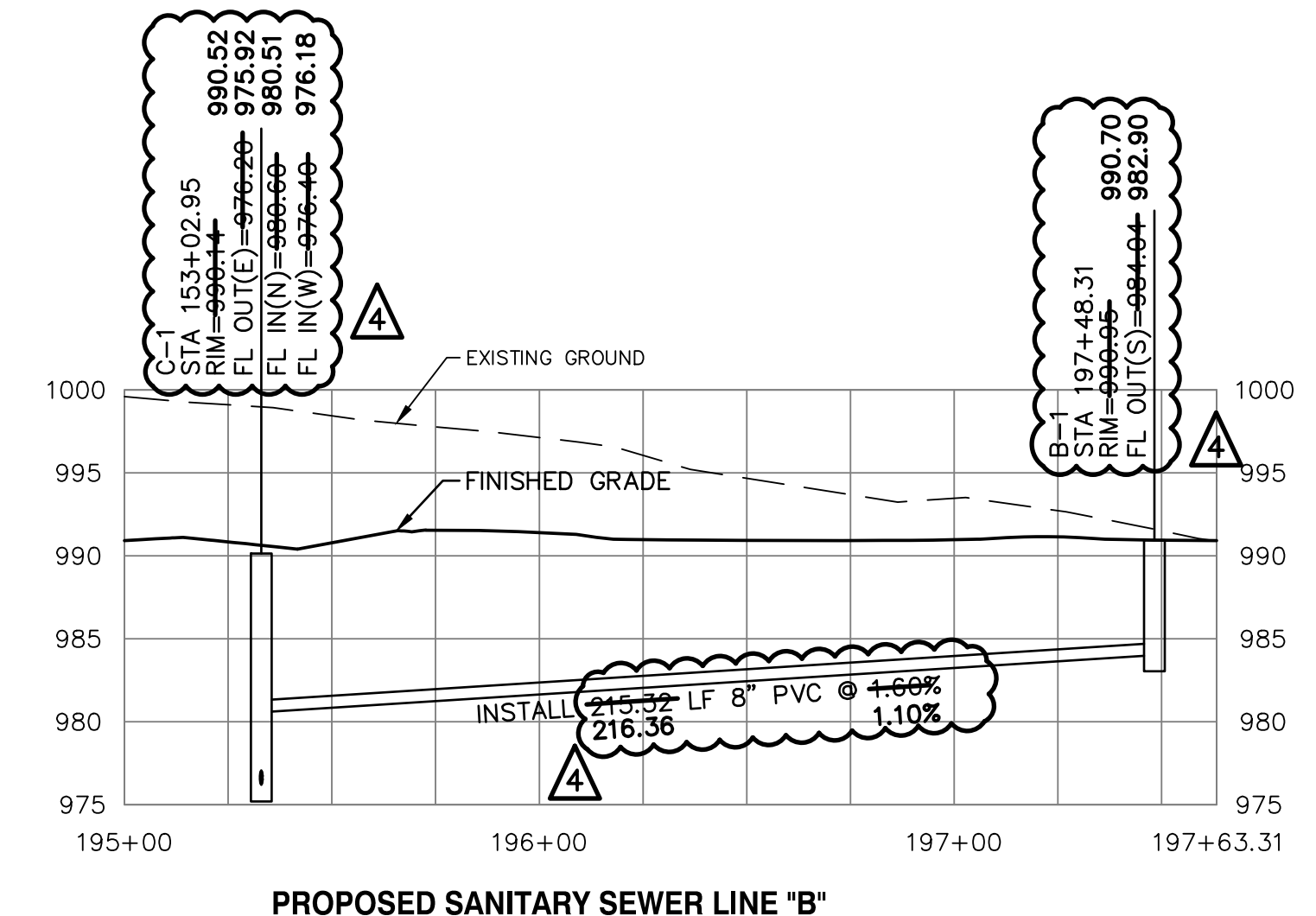
**STREETS OF WEST PRYOR**  
NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE  
LEES SUMMIT, MISSOURI

**SANITARY SEWER PLANS**  
SANITARY SEWER LINE A

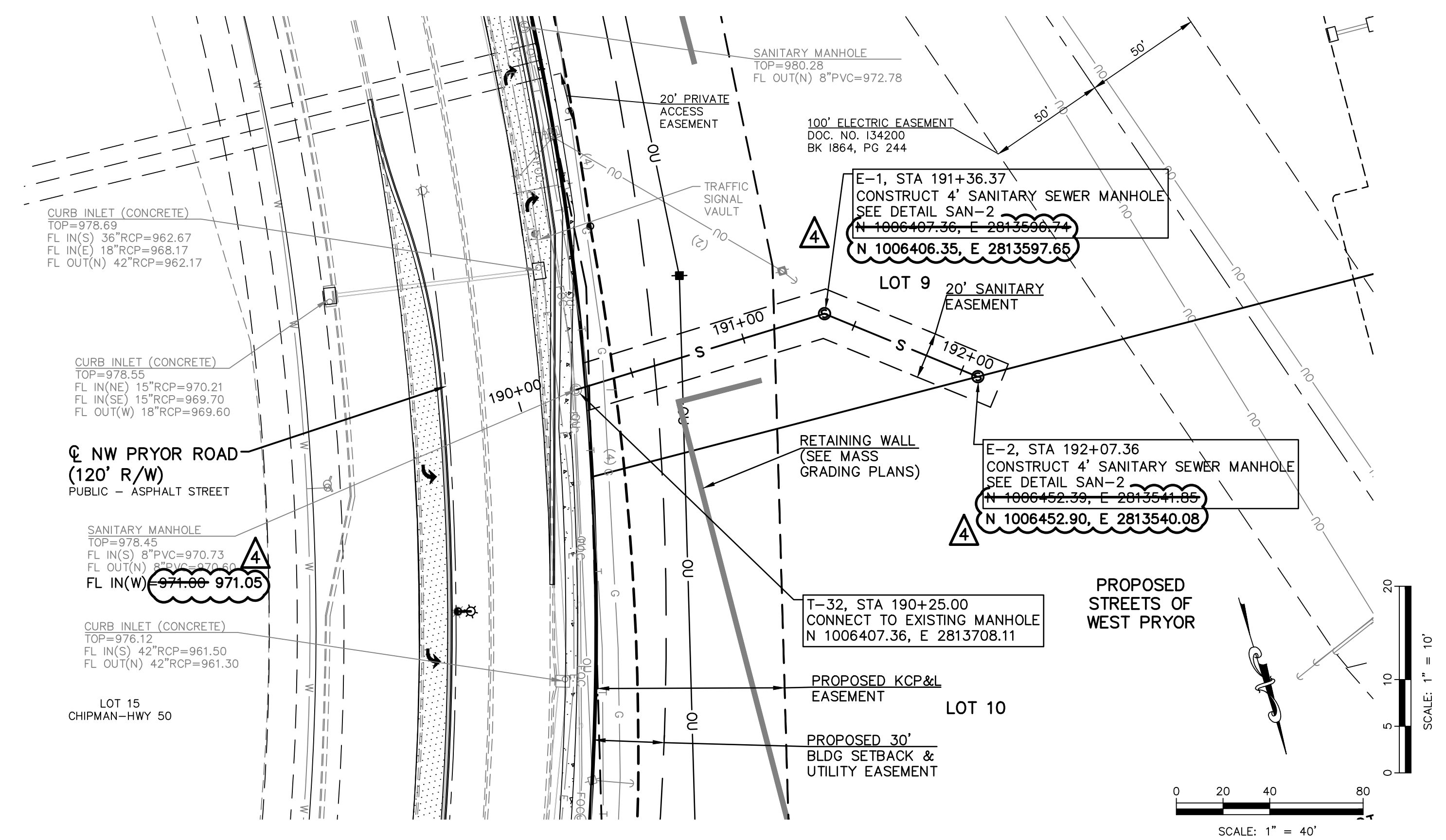




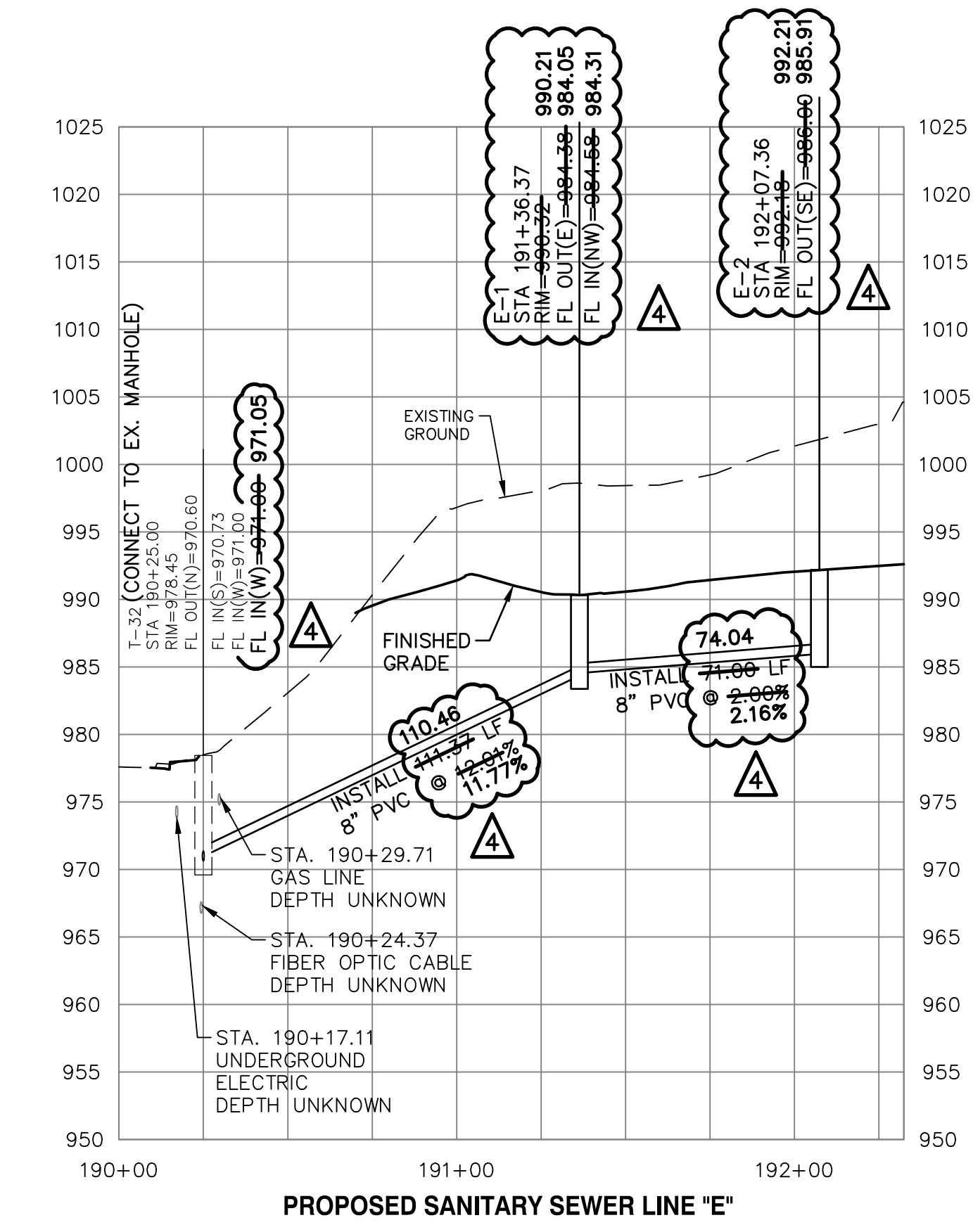
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PROPOSED SANITARY SEWER LINE "B"



NOTE:  
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PROPOSED SANITARY SEWER LINE "E"

AS-BUILT PUBLIC STREET, STORM & WATER ARE BY SEPARATE PLANS

DESIGNER	LDO	DRAWN BY	JT/BKR
PROJ. NO.	A14_7067-1		
SHEET	C-7	REV	4

PROJ. NO. A14\_7067-1  
DESIGNER LDO DRAWN BY JT/BKR  
SHEET C-7 REV 4

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JUNCTION CITY, KANSAS 66441  
PH. (785) 762-5040 | FAX (785) 762-7744  
jckawvalley.com | www.kveeng.com

**KAW VALLEY ENGINEERING**  
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 00864E. EXPIRES 12/31/19

LEON D. OSBOURN  
ENGINEER  
MO # 021726

REVISIONS:

REV	DATE	DESCRIPTION
0	1-8-19	INITIAL ISSUE
1	1-23-19	REVISED PER CITY COMMENT
2	2-26-19	REVISED PER CITY COMMENT
3	4-15-19	REVISED PER CITY COMMENT
4	2-5-21	AS-BUILT PLANS

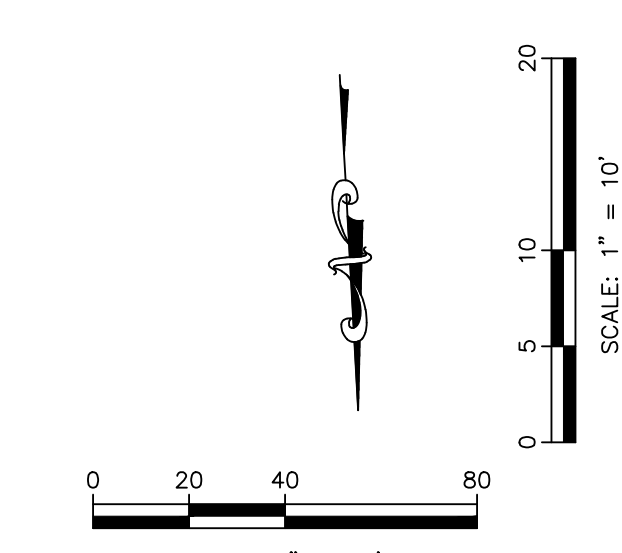
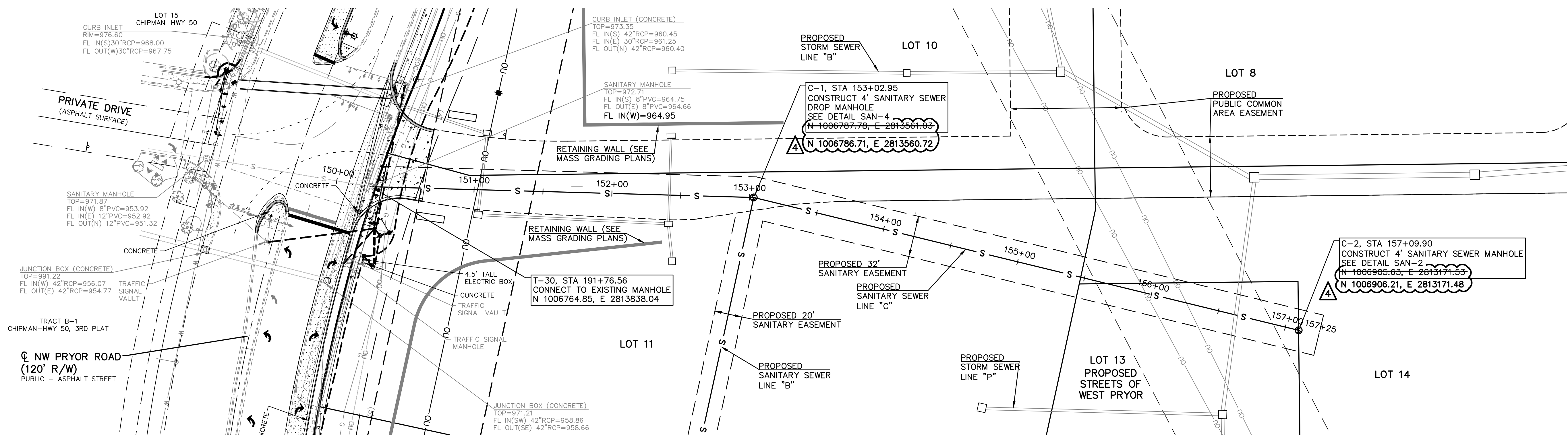
STREETS OF WEST PRYOR  
NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE  
LEES SUMMIT, MISSOURI

SANITARY SEWER PLANS  
SANITARY SEWER LINE B & E - PLAN & PROFILE

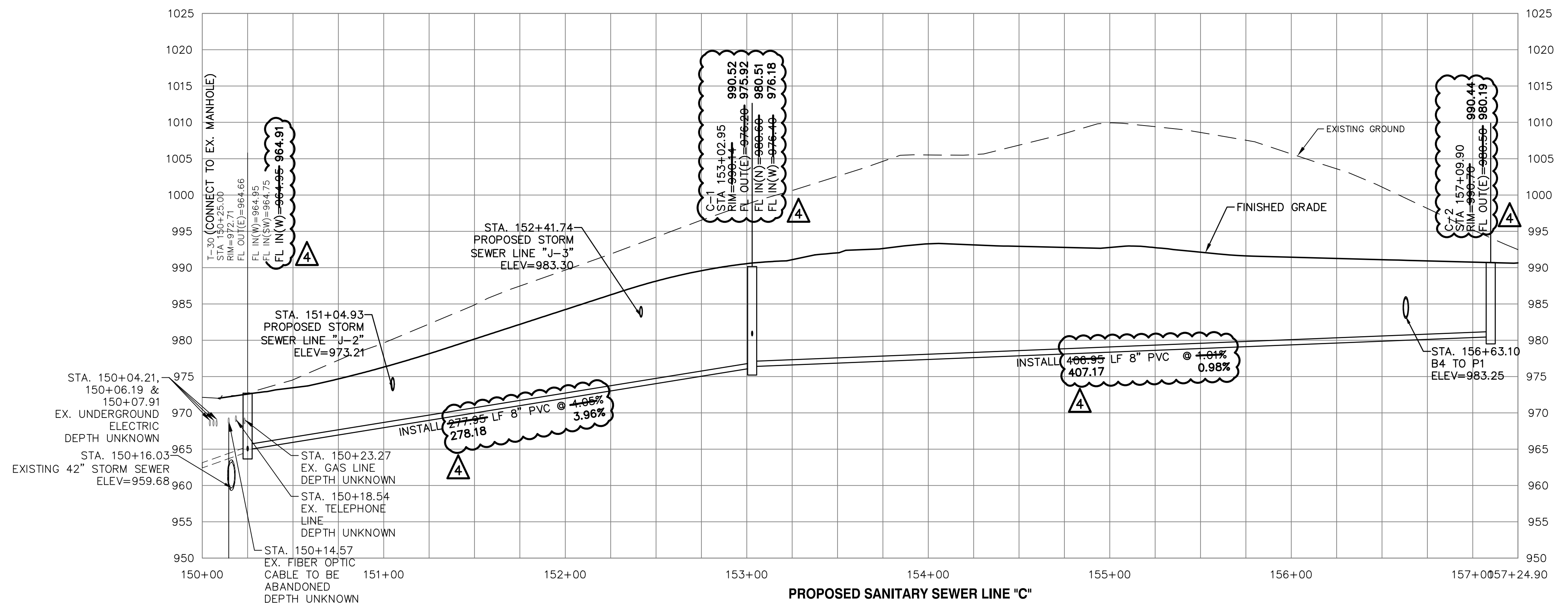
SCALE: 1" = 40'

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NOTE:  
 AT EACH WATER LINE CROSSING, THE SANITARY SEWER SHALL BE INSTALLED WITH A MINIMUM VERTICAL CLEAR DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. A FULL LENGTH OF SEWER PIPE SHALL BE LOCATED WITH THE CENTER OF PIPE AT THE CROSSINGS SO THAT BOTH JOINTS ARE AS FAR FROM THE WATERLINE AS POSSIBLE.



AS-BUILT

PUBLIC STREET, STORM & WATER ARE BY SEPARATE PLANS

PROJ. NO.	A14-7067-1
DESIGNER	LDO
DRAWN BY	JT/BKR
DATE	7-1-2021
SHEET	C-8
REV	4

LEON D. OSBOURN  
 ENGINEER  
 MO # 021726

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

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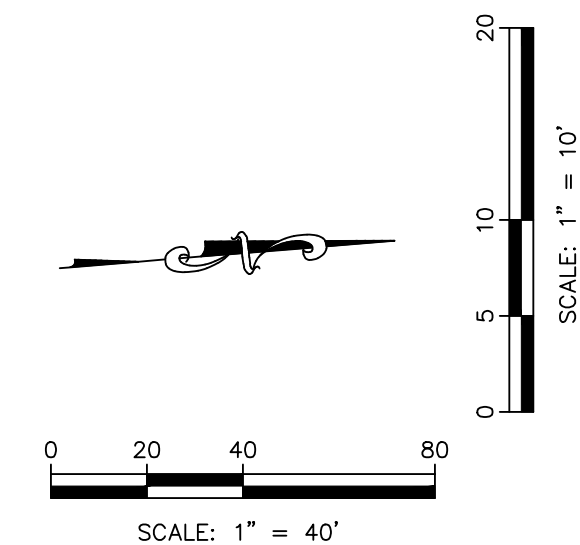
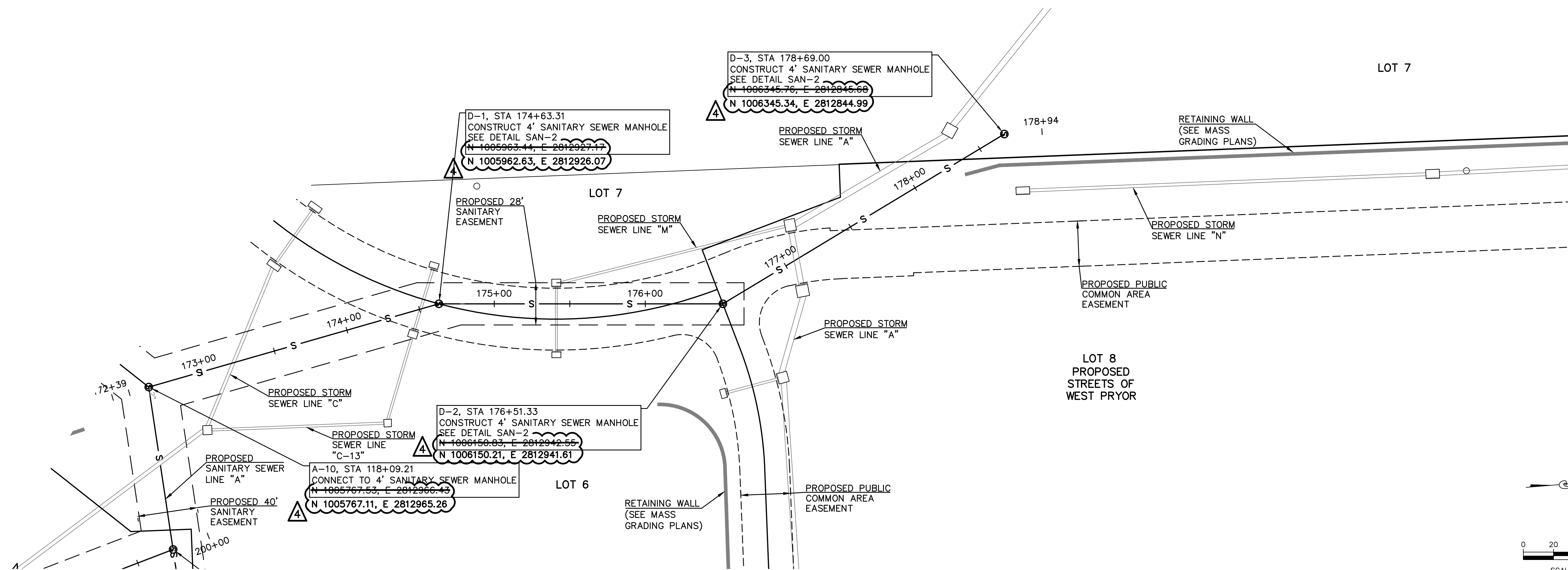
**STREETS OF WEST PRYOR**  
 NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE  
 LEES SUMMIT, MISSOURI

**SANITARY SEWER PLANS**  
 SANITARY SEWER LINE C - PLAN & PROFILE

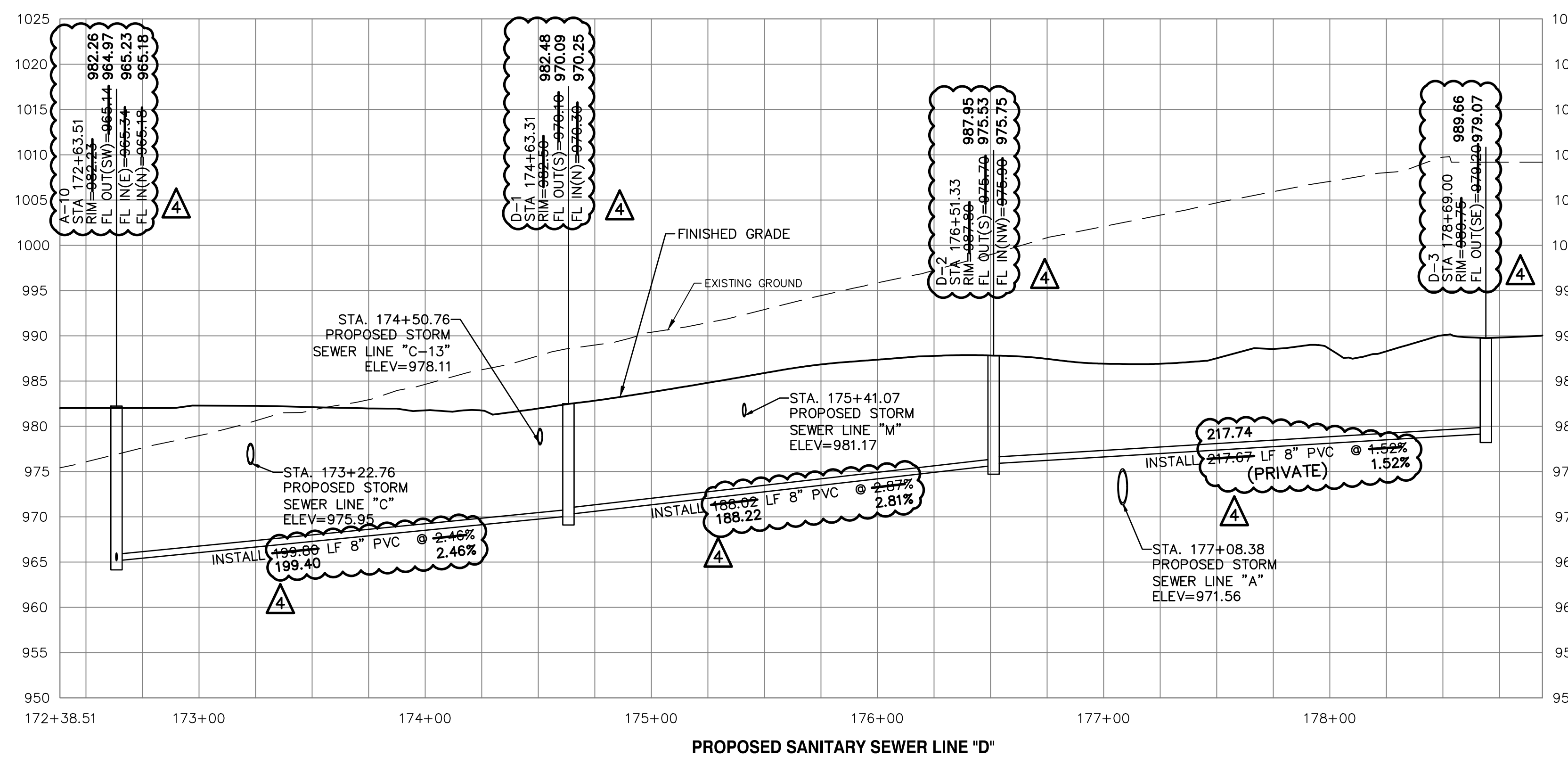
REV	DATE	DESCRIPTION
4	1-8-19	INITIAL ISSUE
3	2-26-19	REVISED PER CITY COMMENT
2	4-15-19	REVISED PER CITY COMMENT
1	2-5-21	AS-BUILT PLANS

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▲ AS-BUILT

PUBLIC STREET, STORM & WATER ARE BY SEPARATE PLANS

PROJ. NO.	A14_7067-1
DESIGNER	LDO
DRAWN BY	JT/BKR
CFN	7067-1S_SPP
SHEET	C-9
REV	4

REV	DATE	DESCRIPTION
4	2-5-21	AS-BUILT PLANS
3	4-15-19	REVISED PER CITY COMMENT
2	2-26-19	REVISED PER CITY COMMENT
1	1-23-19	REVISED PER CITY COMMENT
0	1-8-19	INITIAL ISSUE

LEON D. OSBOURN  
 ENGINEER  
 MO # 021726

2319 N. JACKSON I.P.O. BOX 1304  
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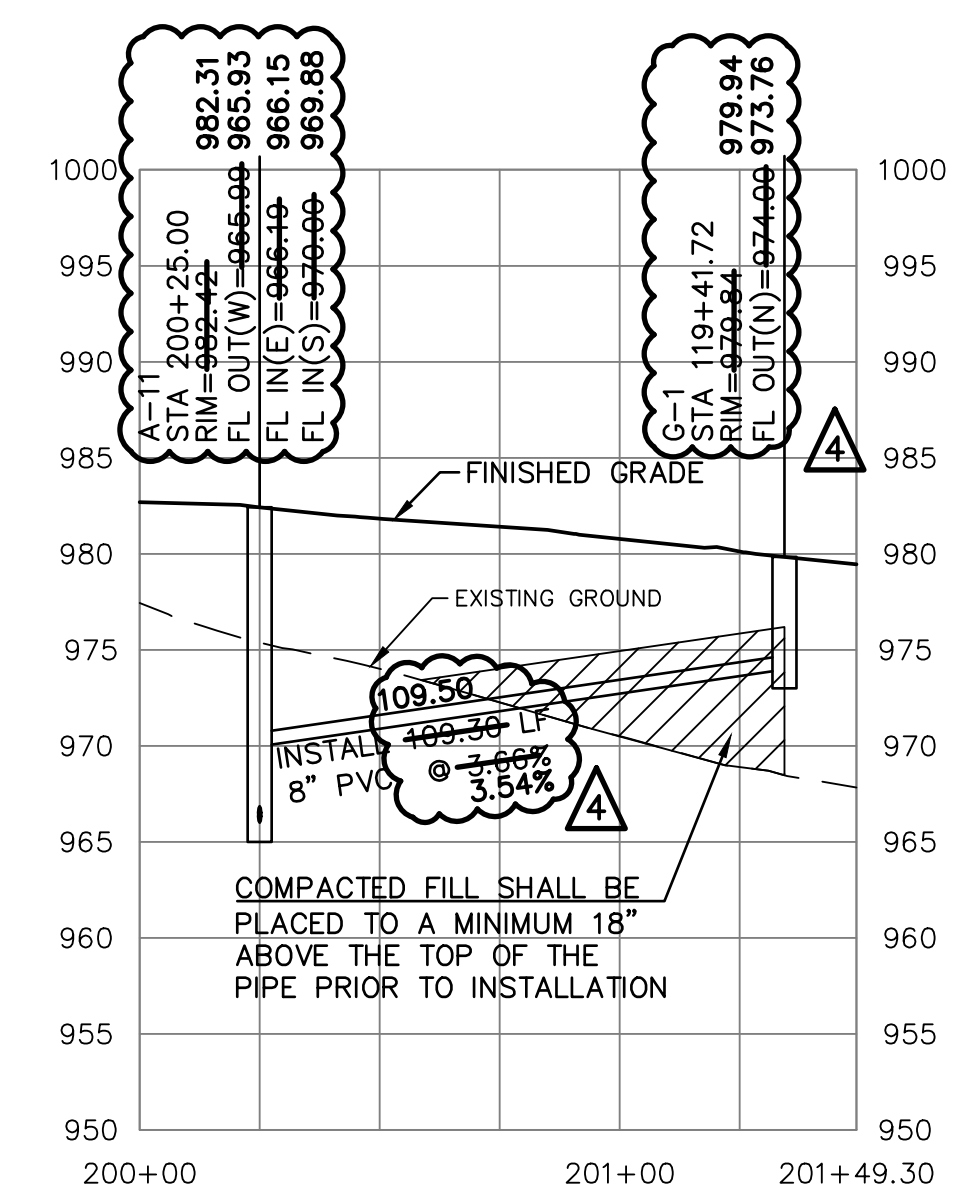
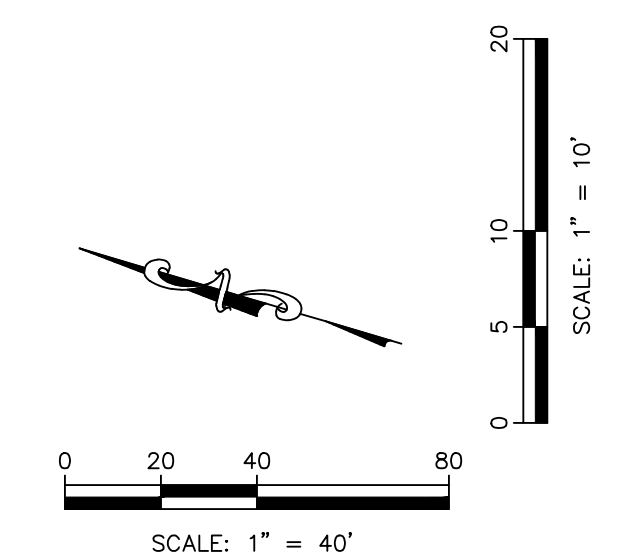
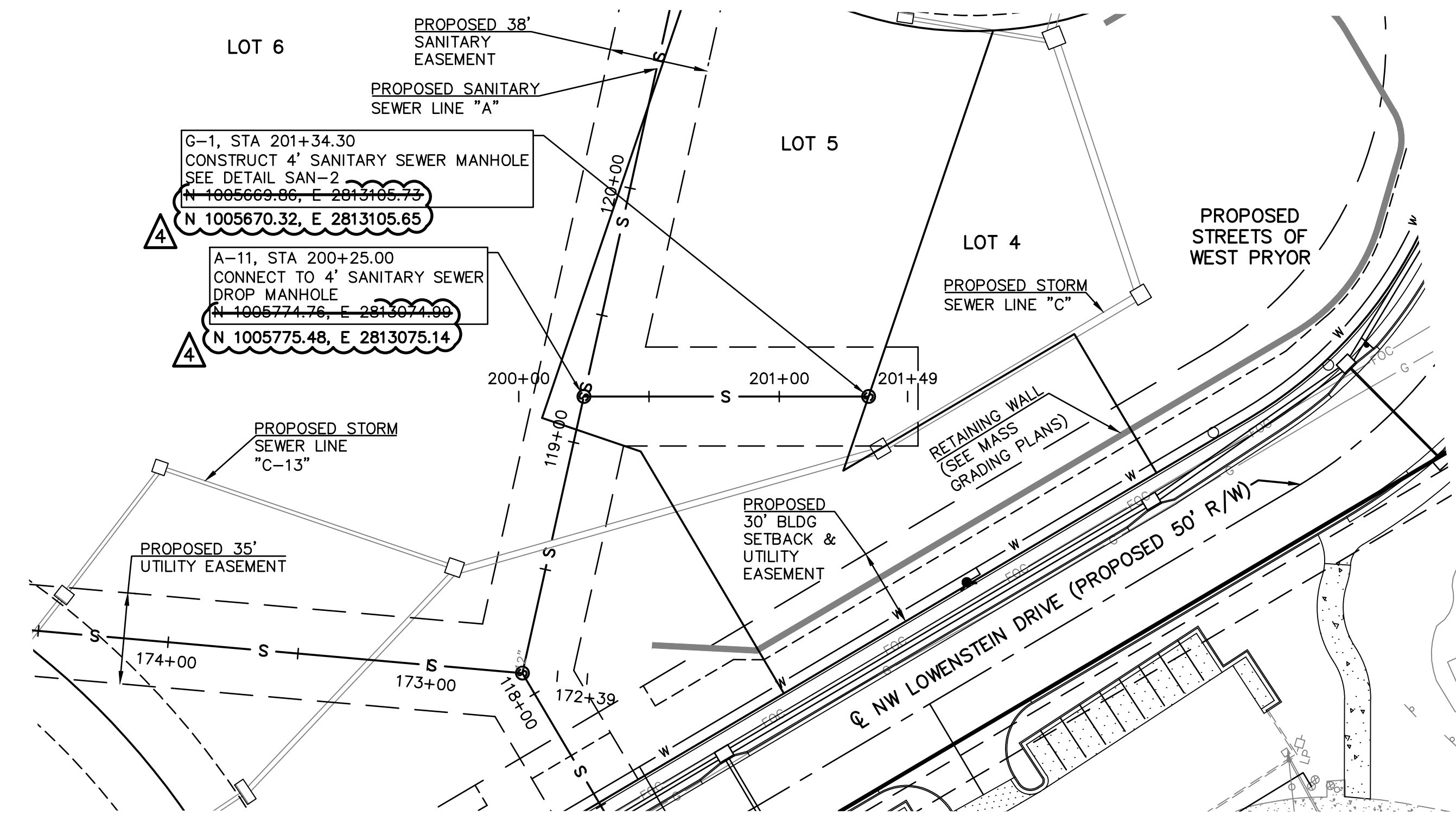
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**STREETS OF WEST PRYOR**  
 NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE  
 LEES SUMMIT, MISSOURI

**SANITARY SEWER PLANS**  
**SANITARY SEWER LINE D - PLAN & PROFILE**

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▲ AS-BUILT

PUBLIC STREET, STORM & WATER ARE BY SEPARATE PLANS

PROJ. NO.	A14-7067-1	
DESIGNER	LDO	
DRAWN BY	JT/BKR	
DATE	7-1-2021	
SHEET	C-10	
REV	4	
REV	DATE	DESCRIPTION
0	1-8-19	INITIAL ISSUE
1	1-23-19	REVISED PER CITY COMMENT
2	2-26-19	REVISED PER CITY COMMENT
3	4-15-19	REVISED PER CITY COMMENT
4	2-5-21	AS-BUILT PLANS
LDO	JT	LDO
LDO	JT	LDO
LDO	JT	LDO
LDO	JT/BKR	LDO
DSN	DWN	CHK

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

**SANITARY SEWER PLANS**  
**SANITARY SEWER LINE G - PLAN & PROFILE**

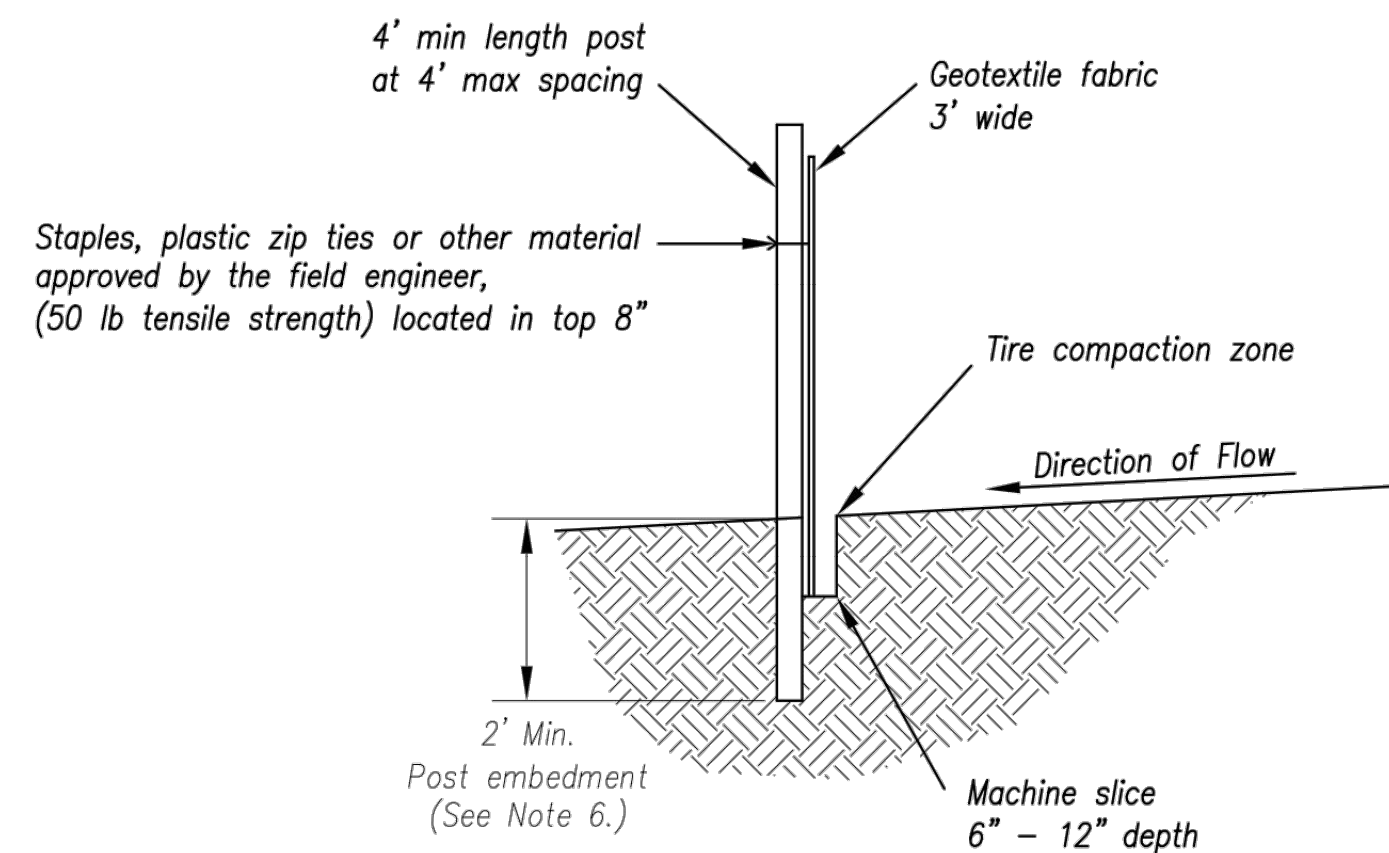
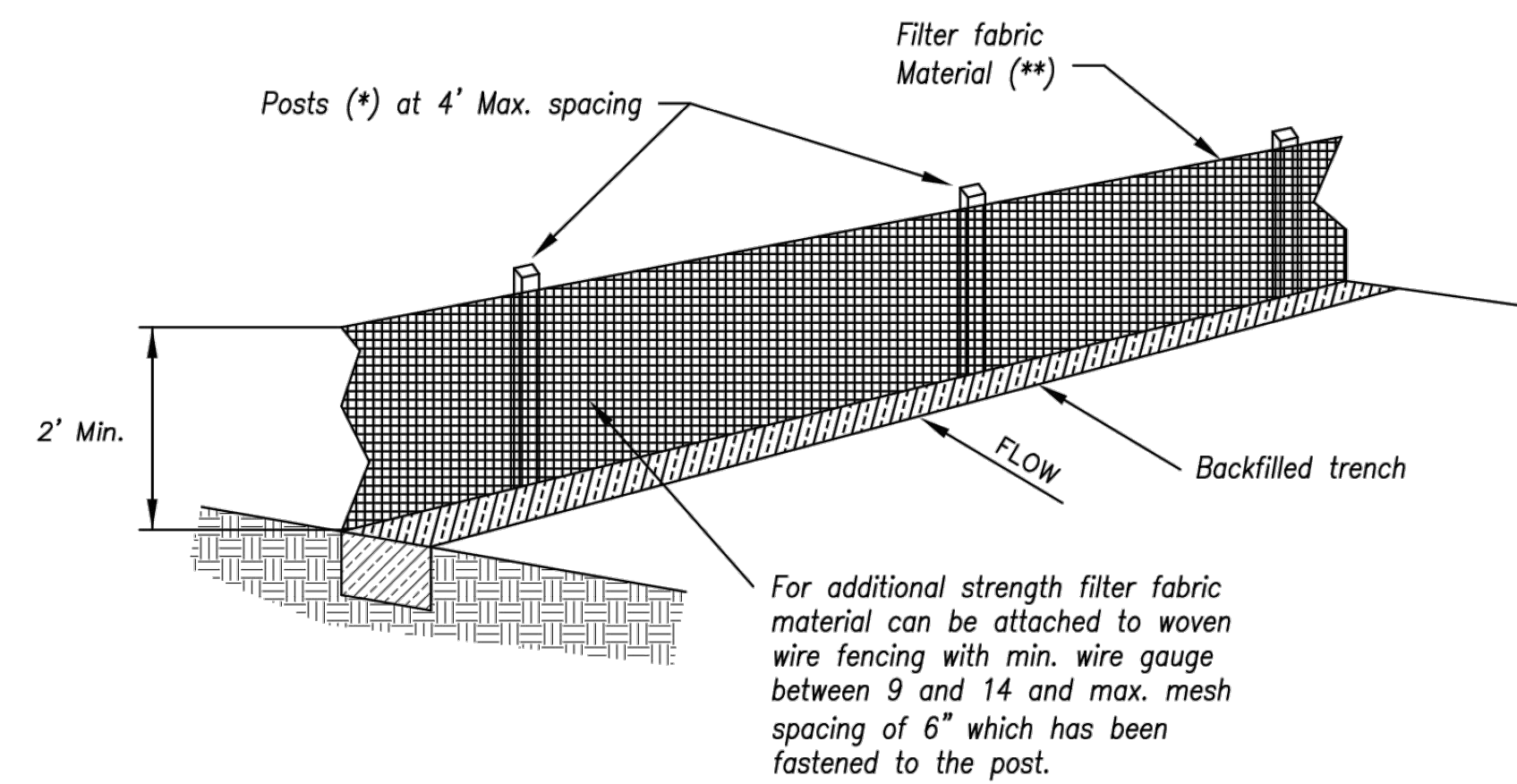












- (\*) POSTS
- MIN. LENGTH 4'
  - HARDWOOD 1 3/8" x 1 3/8"
  - NO.2 SOUTHERN PINE 2 3/8" x 2 3/8"
  - STEEL 1.33 LB/FT

(\*\*) - 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.

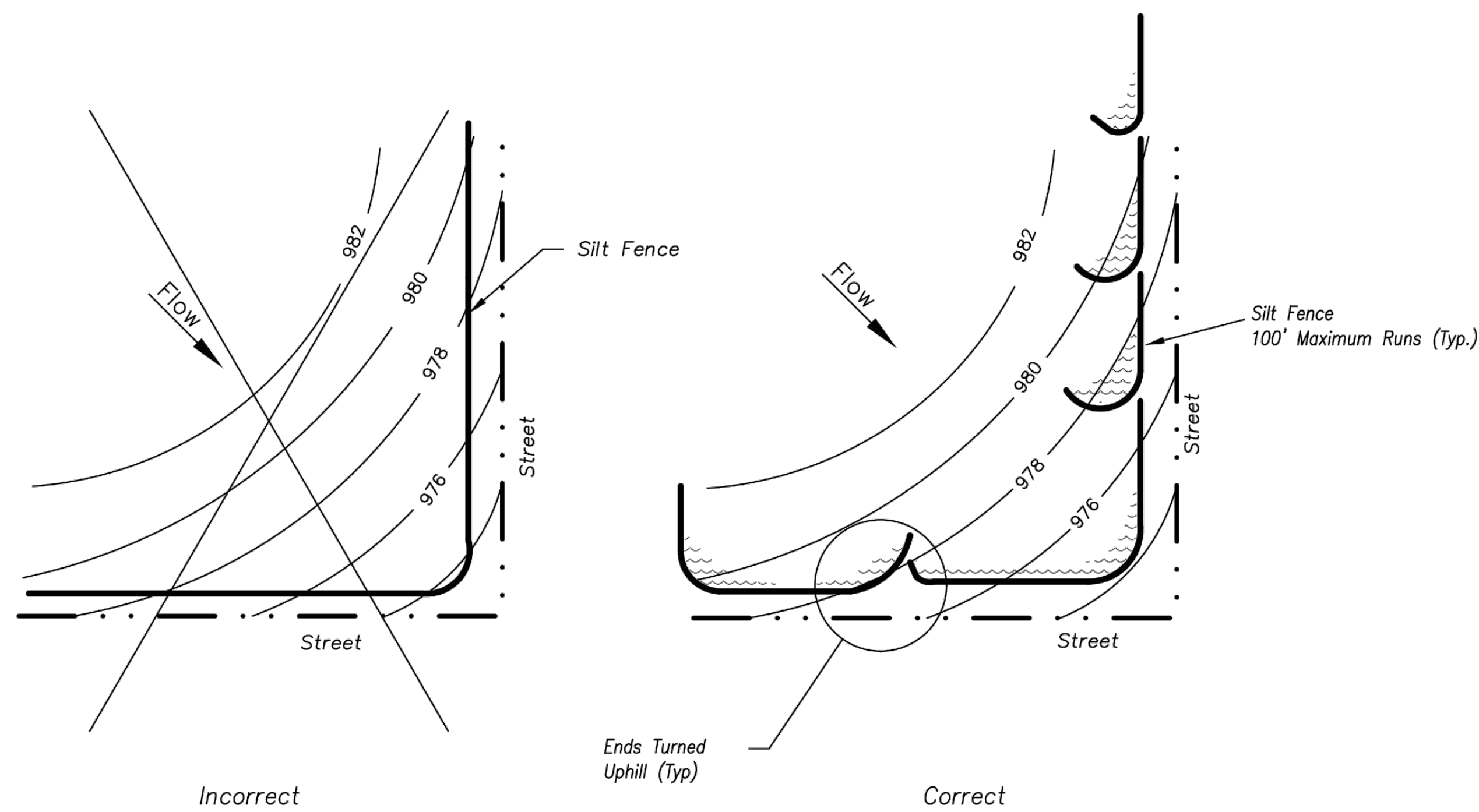
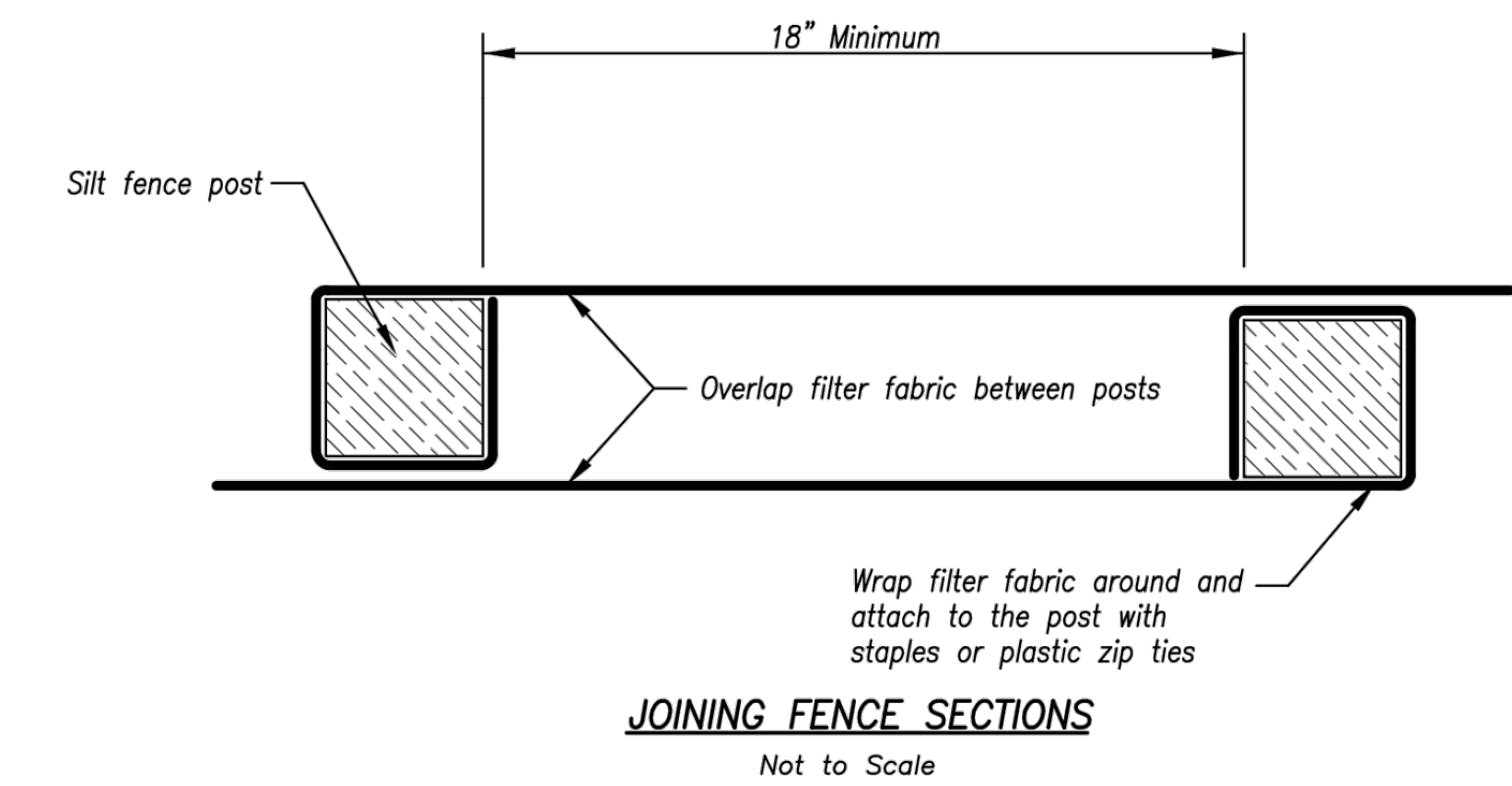


Figure A

**SILT FENCE LAYOUT**  
Not to Scale

AS-BUILT

AMERICAN PUBLIC WORKS ASSOCIATION  
Kansas City Metro Chapter

KANSAS CITY METRO CHAPTER

SILT FENCE

STANDARD DRAWING NUMBER ESC-03  
ADOPTED: 10/24/2016

STREETS OF WEST PRYOR  
NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE  
LEES SUMMIT, MISSOURI  
SANITARY SEWER PLANS  
DETAIL SHEET

PROJ. NO.	A14_7067-1
DESIGNER	LDO
DRAWN BY	JT/BKR
CFN	7067-1S_DET
SHEET	4

REV	DATE	DESCRIPTION
0	1-8-19	INITIAL ISSUE
1	1-23-19	REVISED PER CITY COMMENT
4	2-5-21	AS-BUILT PLANS
LDO	JT	LDO
LDO	JT	LDO
LDO	JT/BKR	LDO
DSN	DWN	CHK



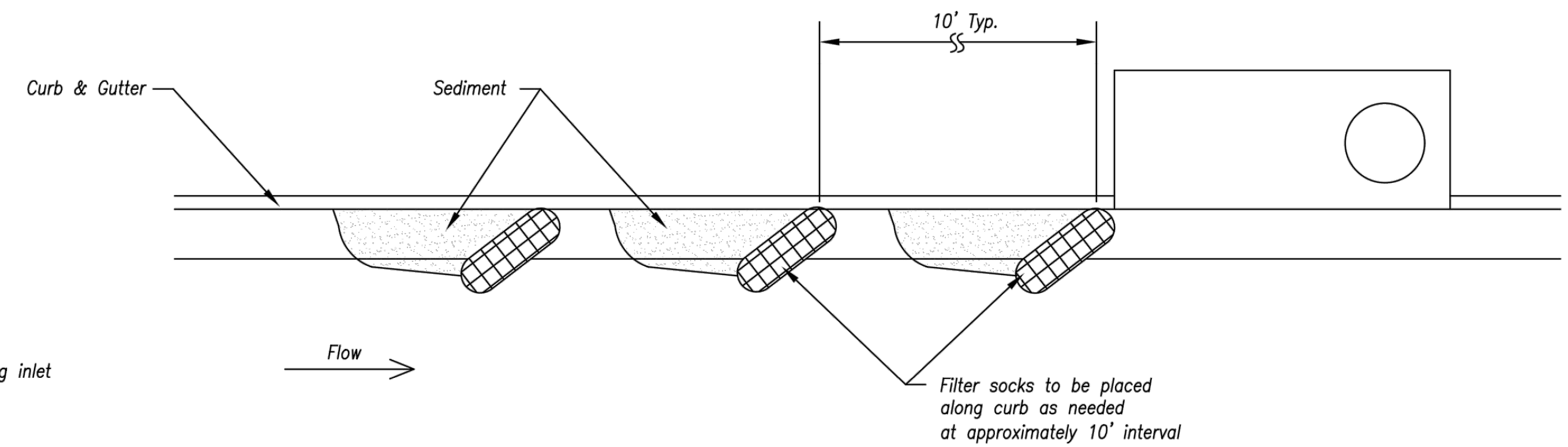
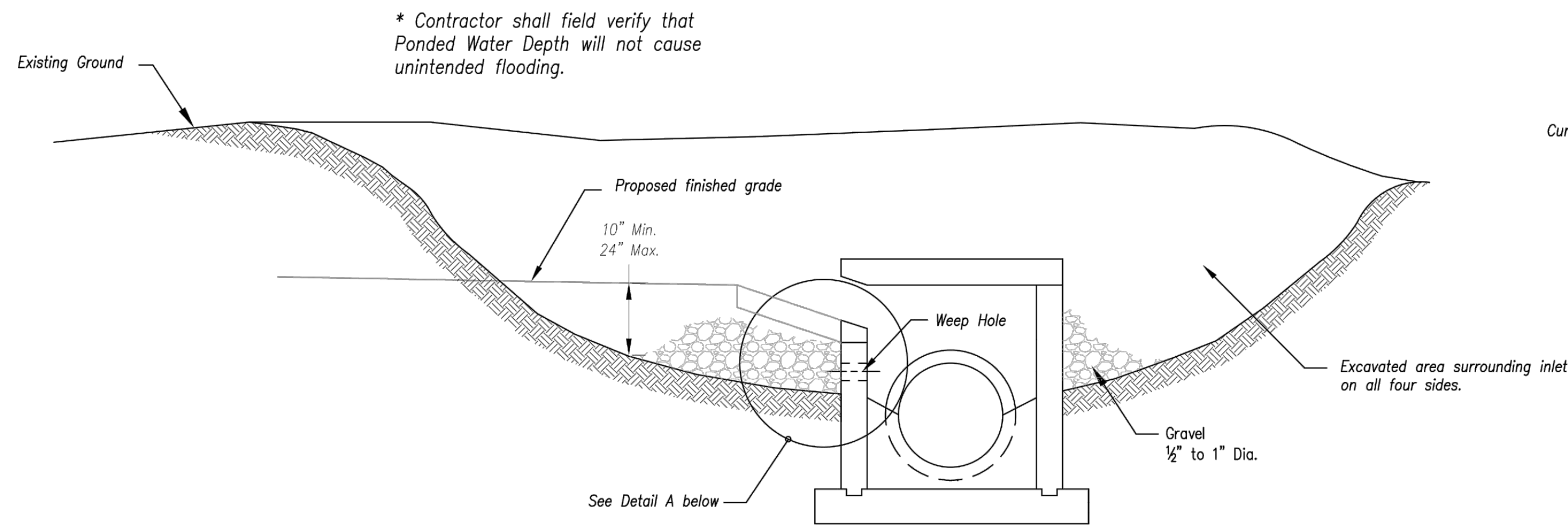
LEON D. OSBOURN  
ENGINEER  
MO # 021726

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jce@kveeng.com | www.kveeng.com

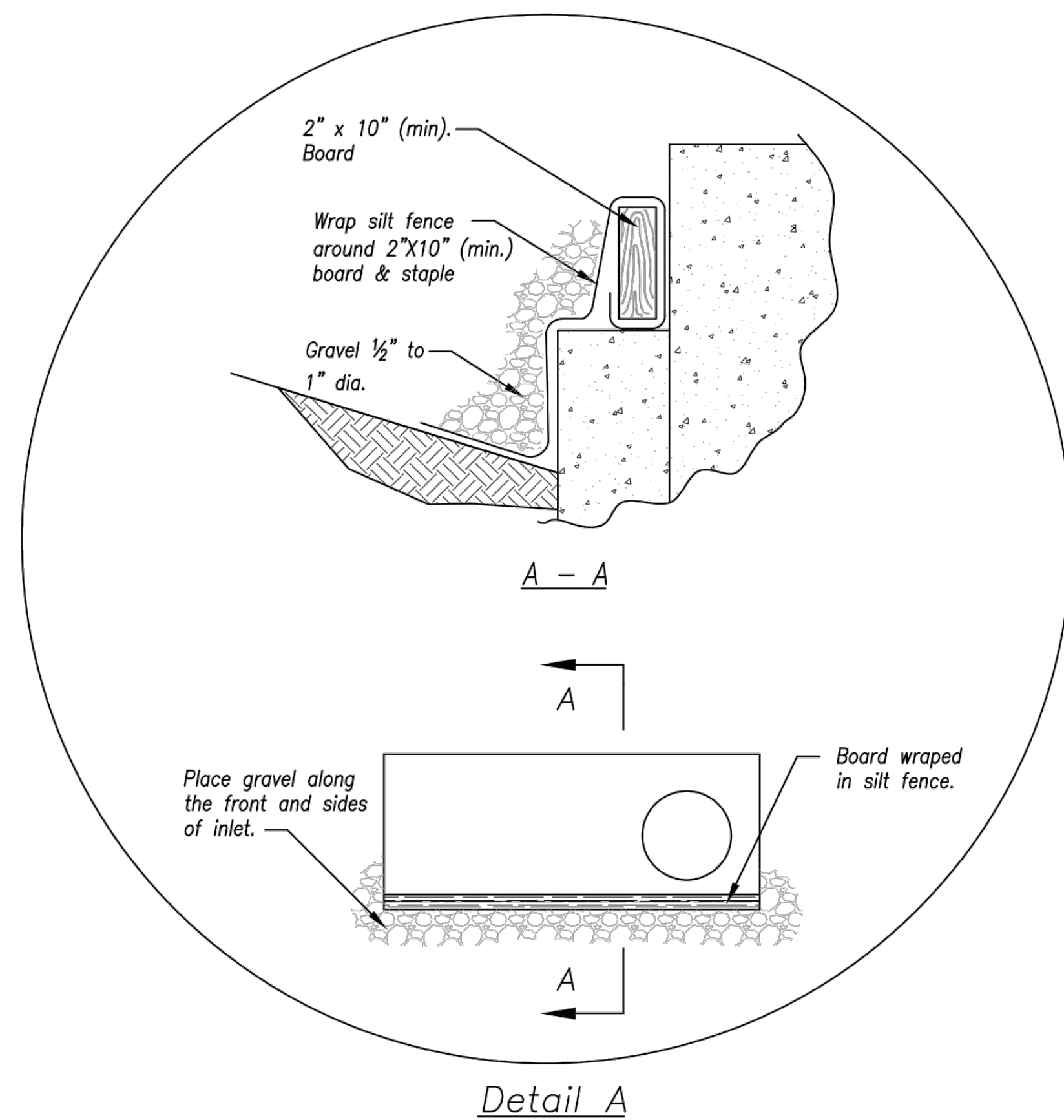
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*On Grade Curb Inlet Protection*



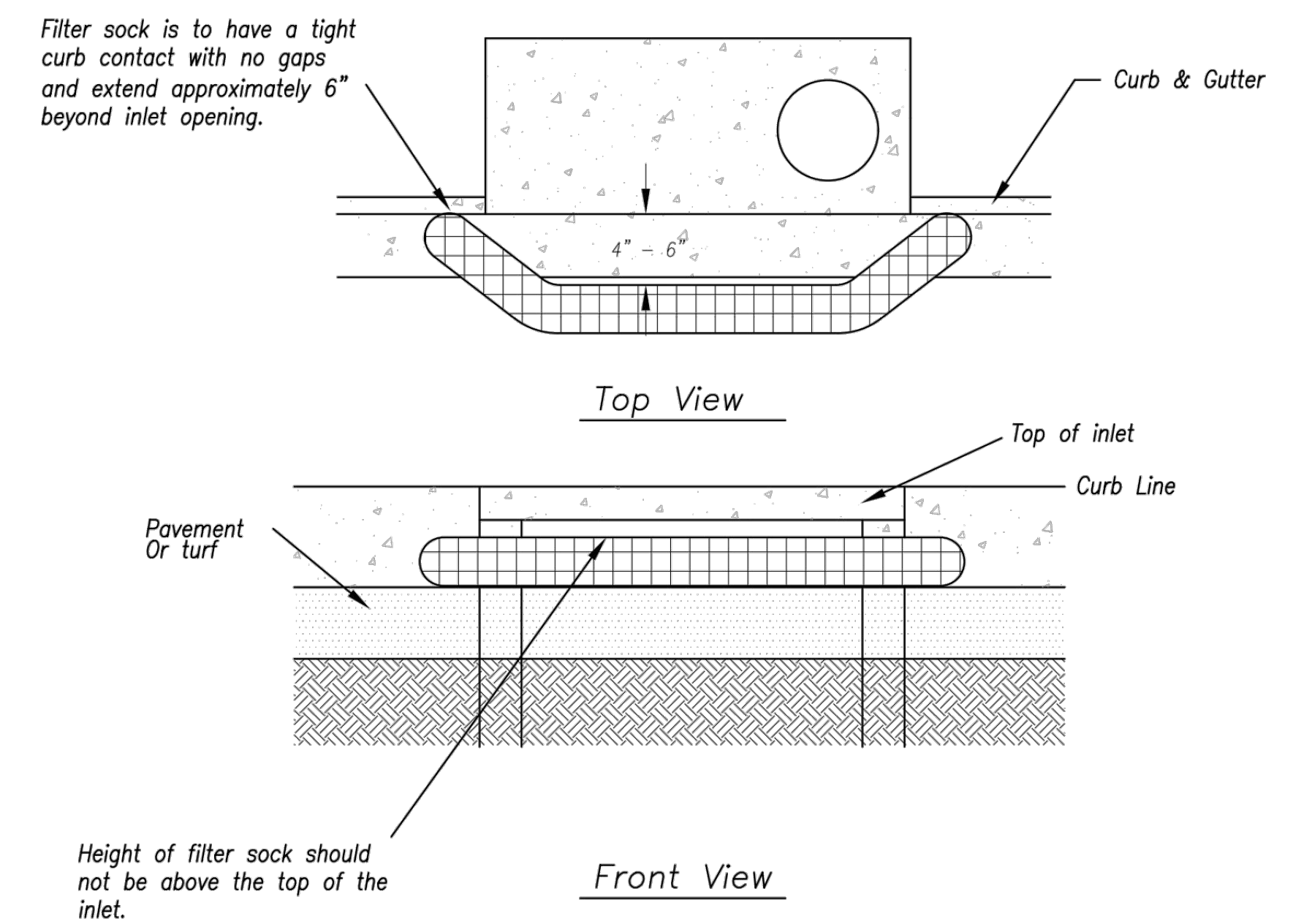
*EARLY STAGE CURB INLET  
(Open Box and Prior to Pouring  
Curb and Inlet Throat)*

**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 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.



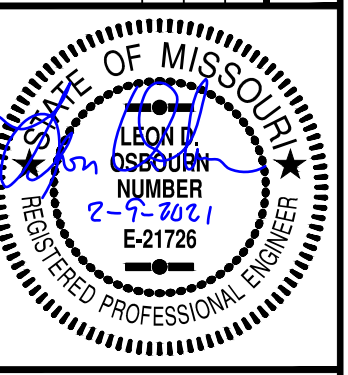
*Sump Inlet Sediment Filter*

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

AS-BUILT

<b>AMERICAN PUBLIC WORKS ASSOCIATION</b> <small>Kansas City Metro Chapter</small> 		<b>KANSAS CITY METRO CHAPTER</b>	
<b>CURB INLET PROTECTION</b>		<b>STANDARD DRAWING NUMBER ESC-06</b> ADOPTED: 10/24/2016	

REV	DATE	DESCRIPTION
0	1-8-19	INITIAL ISSUE
1	1-23-19	REVISED PER CITY COMMENT
4	2-5-21	AS-BUILT PLANS
LDO	JT	LDO
LDO	JT	LDO
LDO	JT/BKR	LDO
DSN	DWN	CHK



LEON D. OSBOURN  
ENGINEER  
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2319 N. JACKSON | P.O. BOX 1304  
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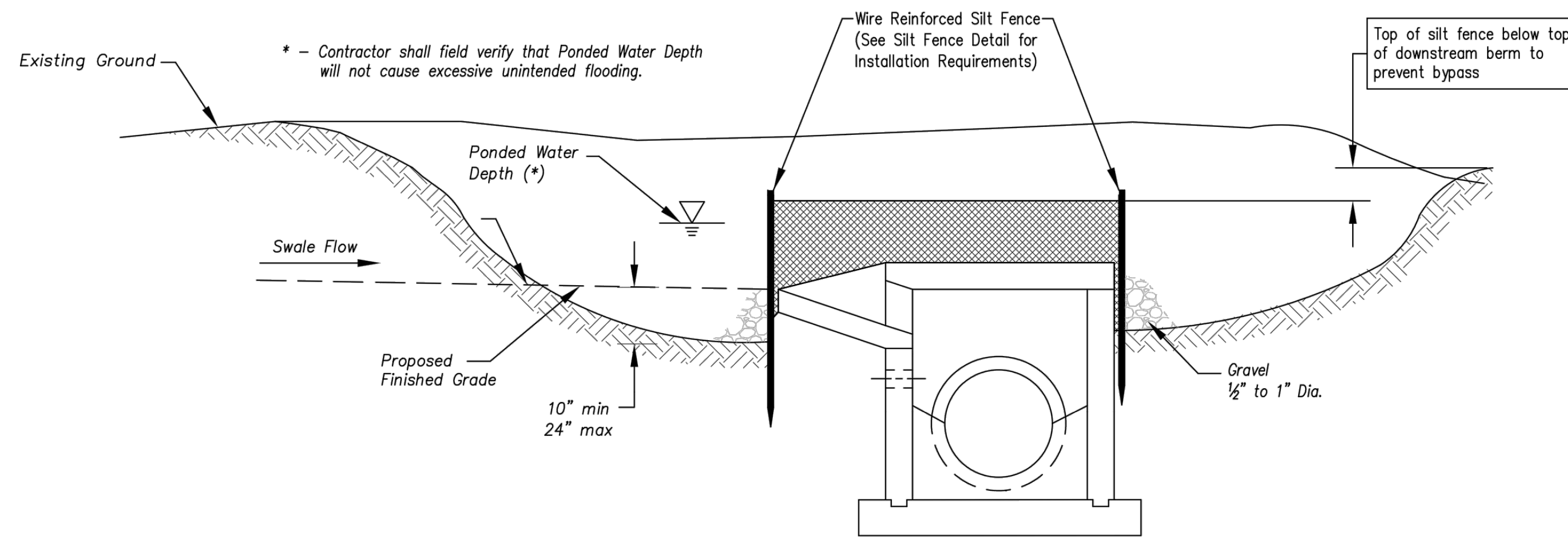
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**STREETS OF WEST PRYOR**  
**NW Q NW PRYOR ROAD & NW LOWENSTEIN DRIVE**  
**LEES SUMMIT, MISSOURI**

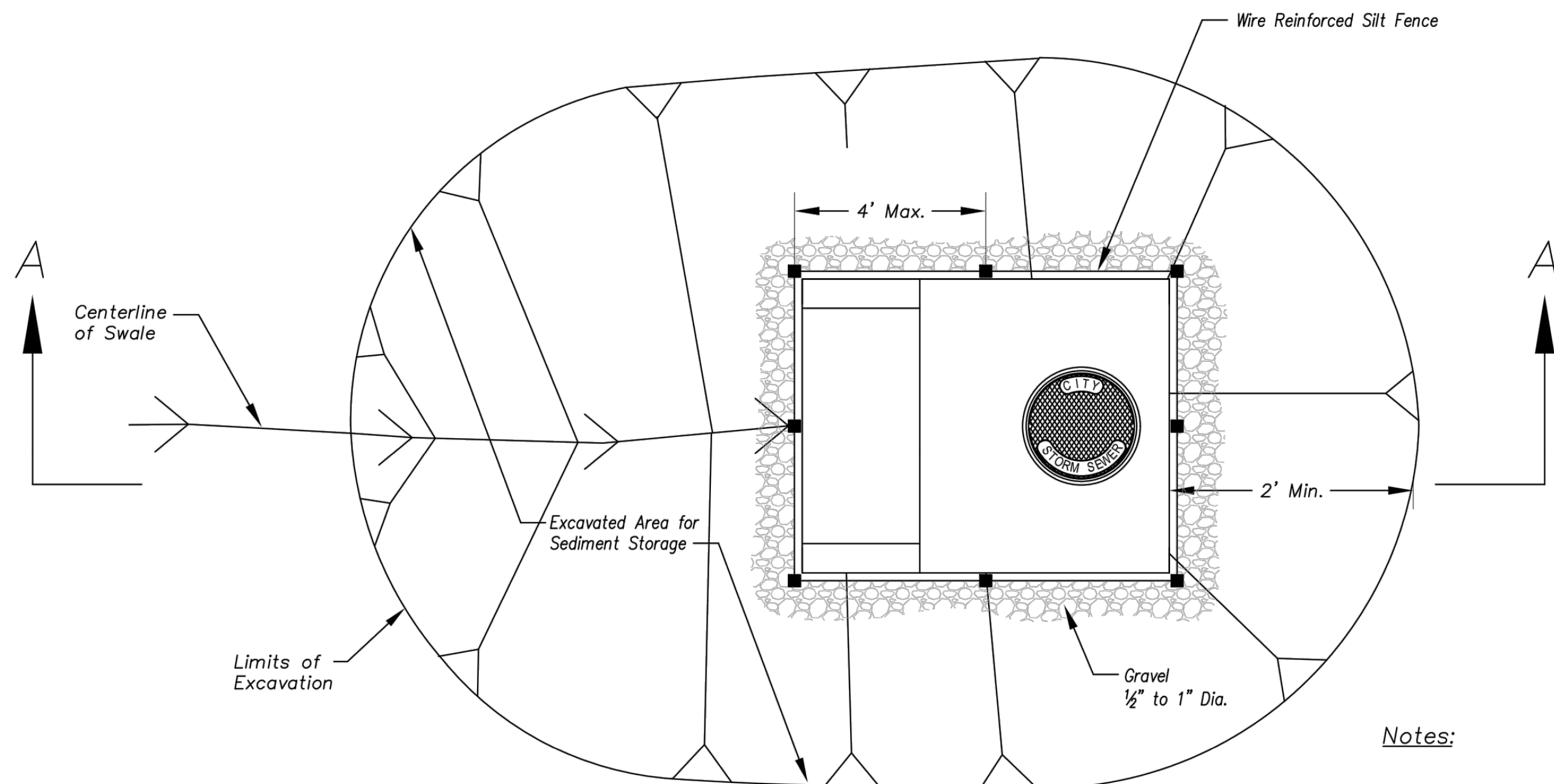
**SANITARY SEWER PLANS**  
**DETAIL SHEET**

PROJ. NO.	A14_7067-1
DESIGNER	LDO
DRAWN BY	JT/BKR
CFN	7067-1S_DET
SHEET	C-14
REV	4





**Section A-A**  
Not to Scale

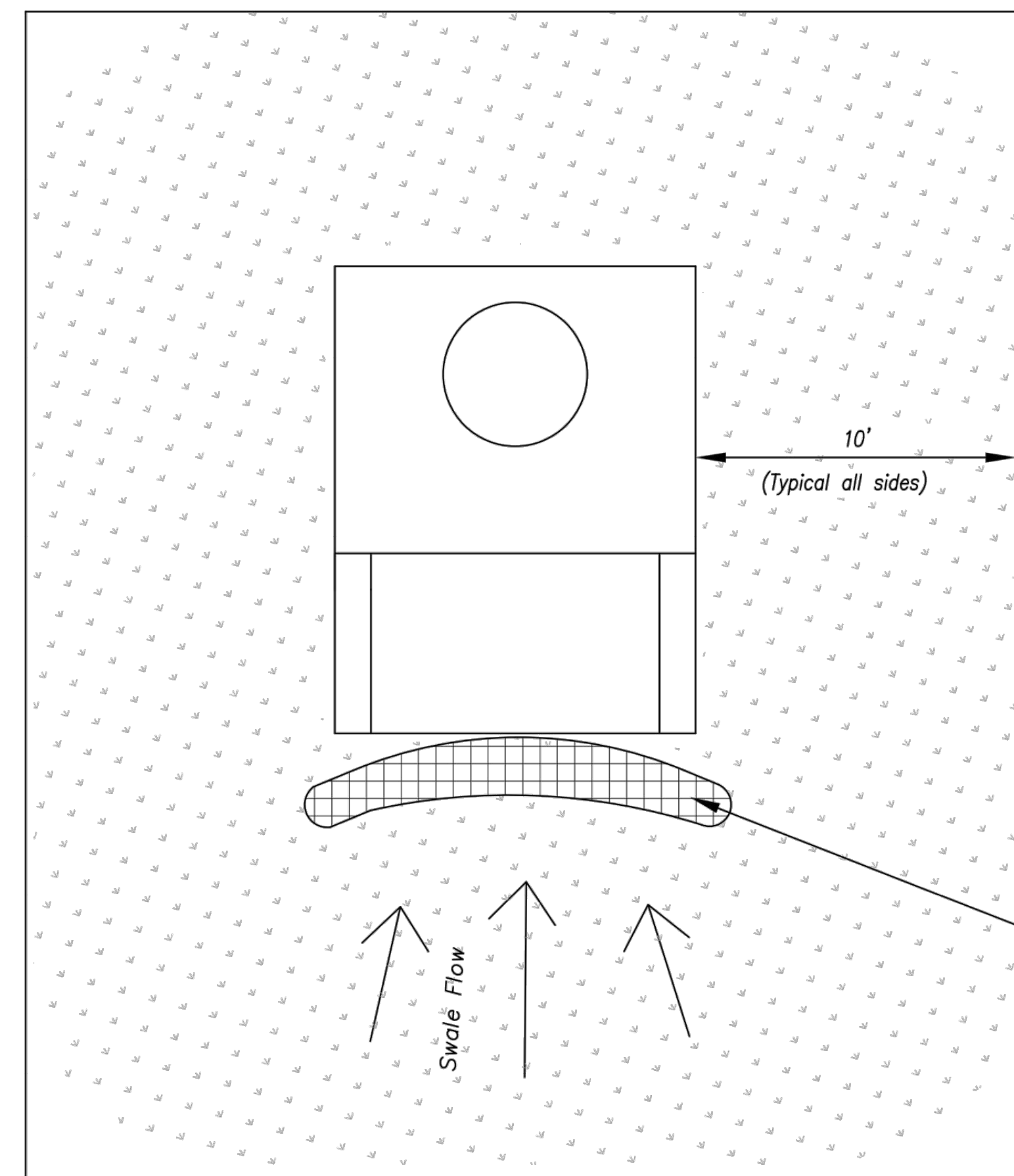


**Plan**  
Not to Scale

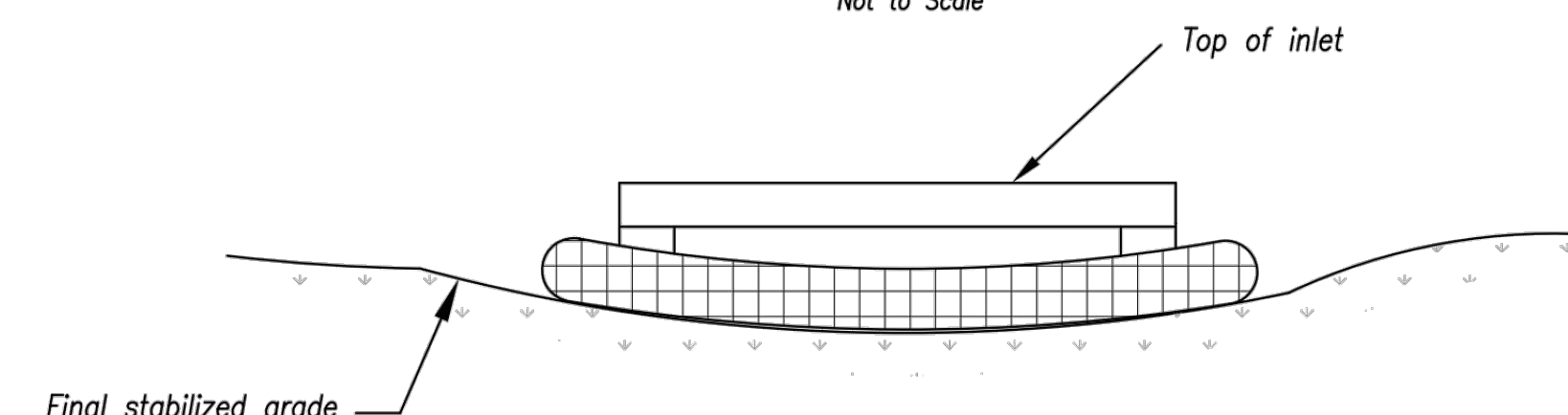
**EARLY STAGE AREA INLET**  
(All open boxes and inlets not at final grade)

**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.

AS-BUILT

AMERICAN PUBLIC WORKS ASSOCIATION



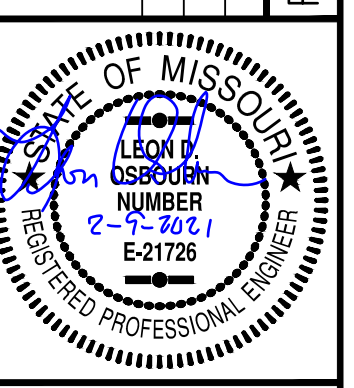
KANSAS CITY  
METRO CHAPTER

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  
LEES SUMMIT, MISSOURI  
SANITARY SEWER PLANS  
DETAIL SHEET

PROJ. NO.	A14-7067-1
DESIGNER	LDO
DRAWN BY	JT/BKR
CFN	7067-1S_DET
SHEET	C-15
REV	4



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2319 N. JACKSON | P.O. BOX 1304  
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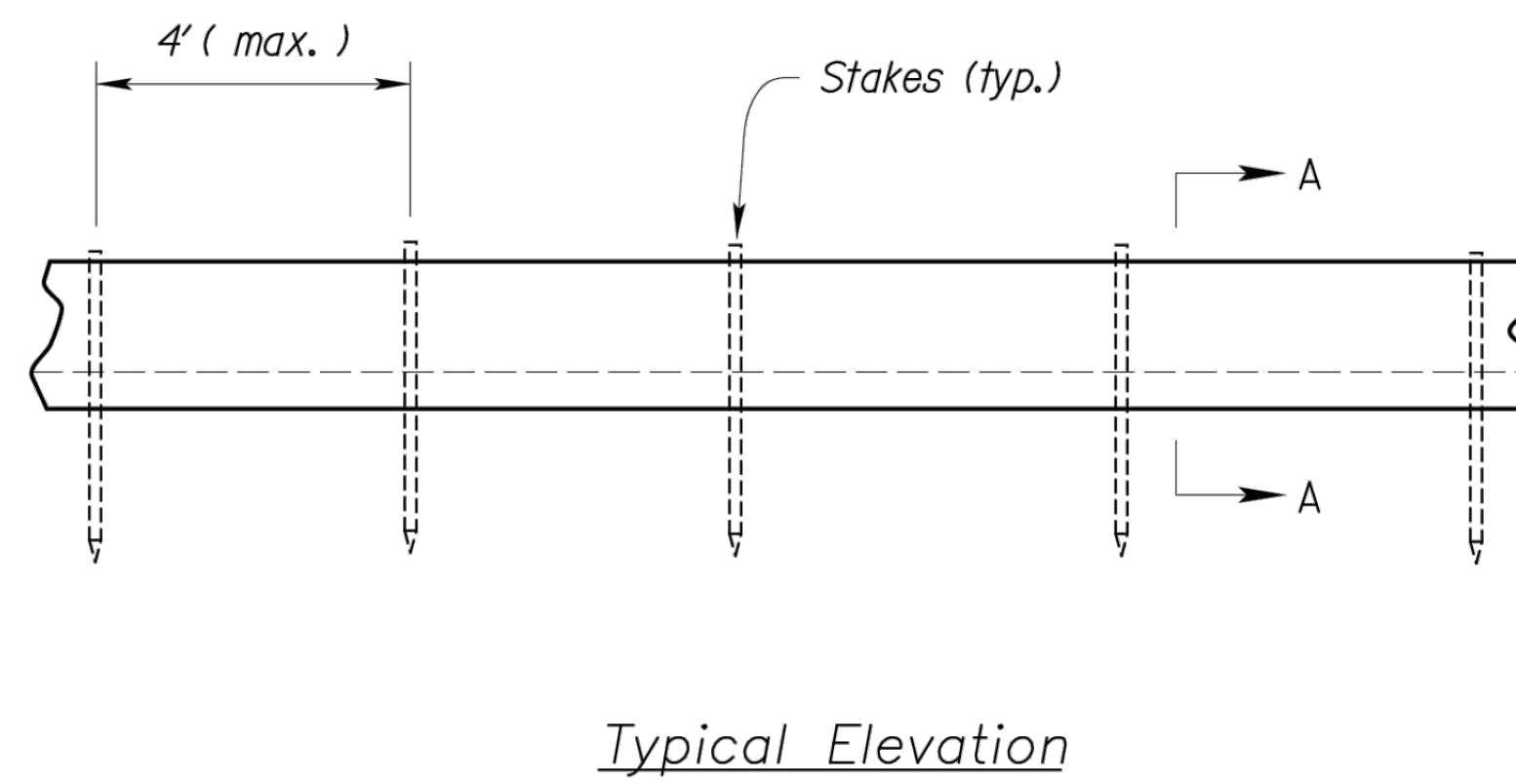
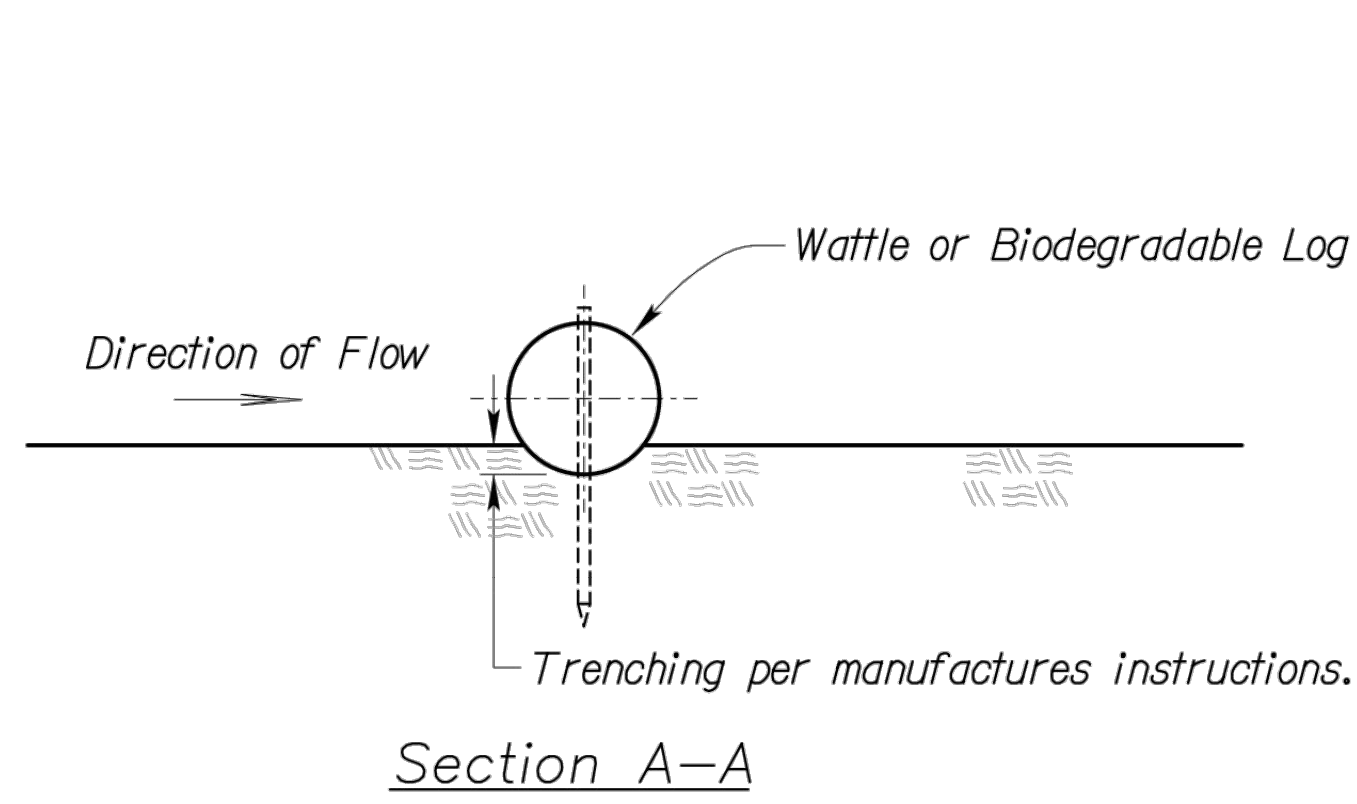
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REV	DATE	DESCRIPTION
0	1-8-19	INITIAL ISSUE
1	1-23-19	REVISED PER CITY COMMENT
2	5-21-19	AS-BUILT PLANS
JT		
LDO		
JT/BKR		
LDO		
DSN		
DWN		
CHK		





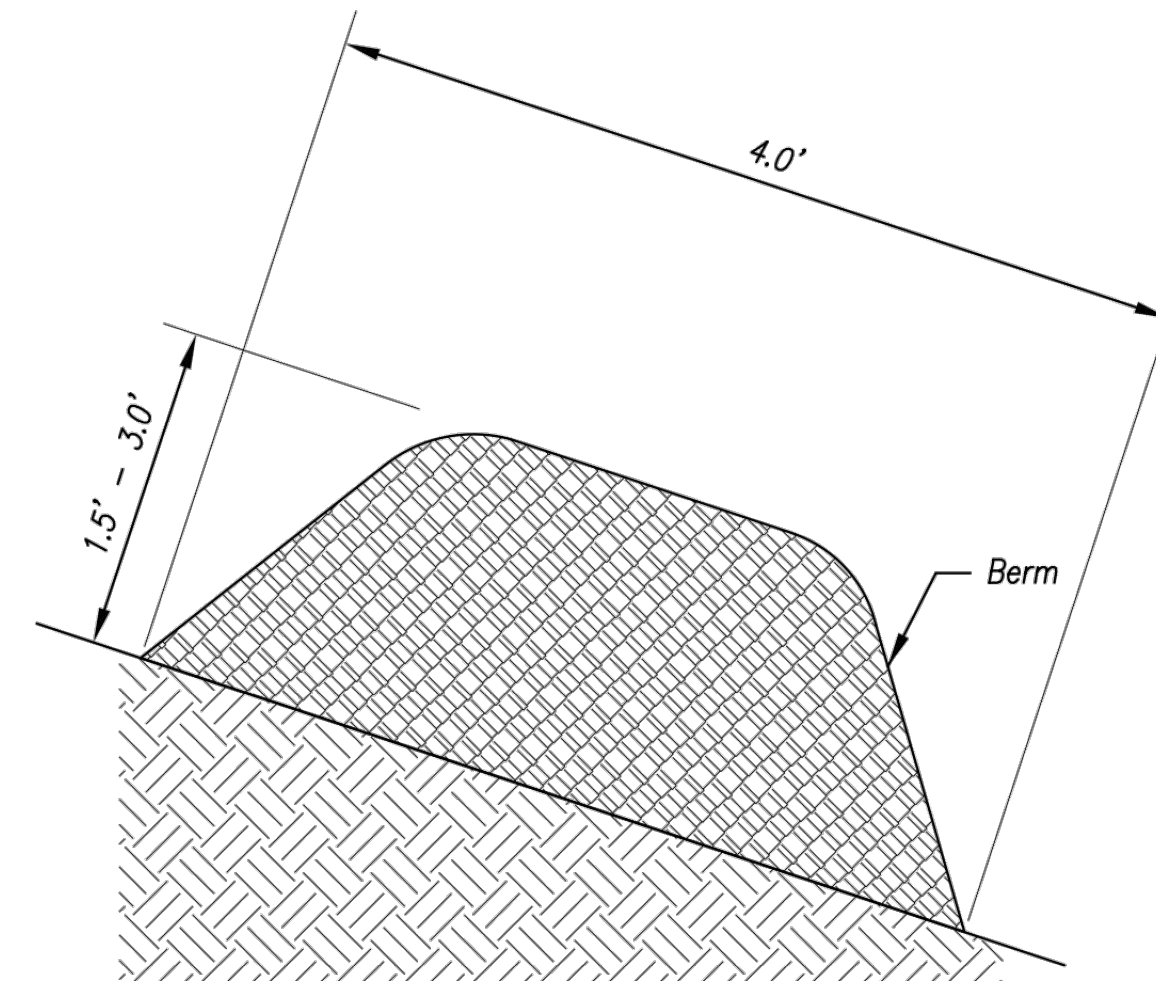
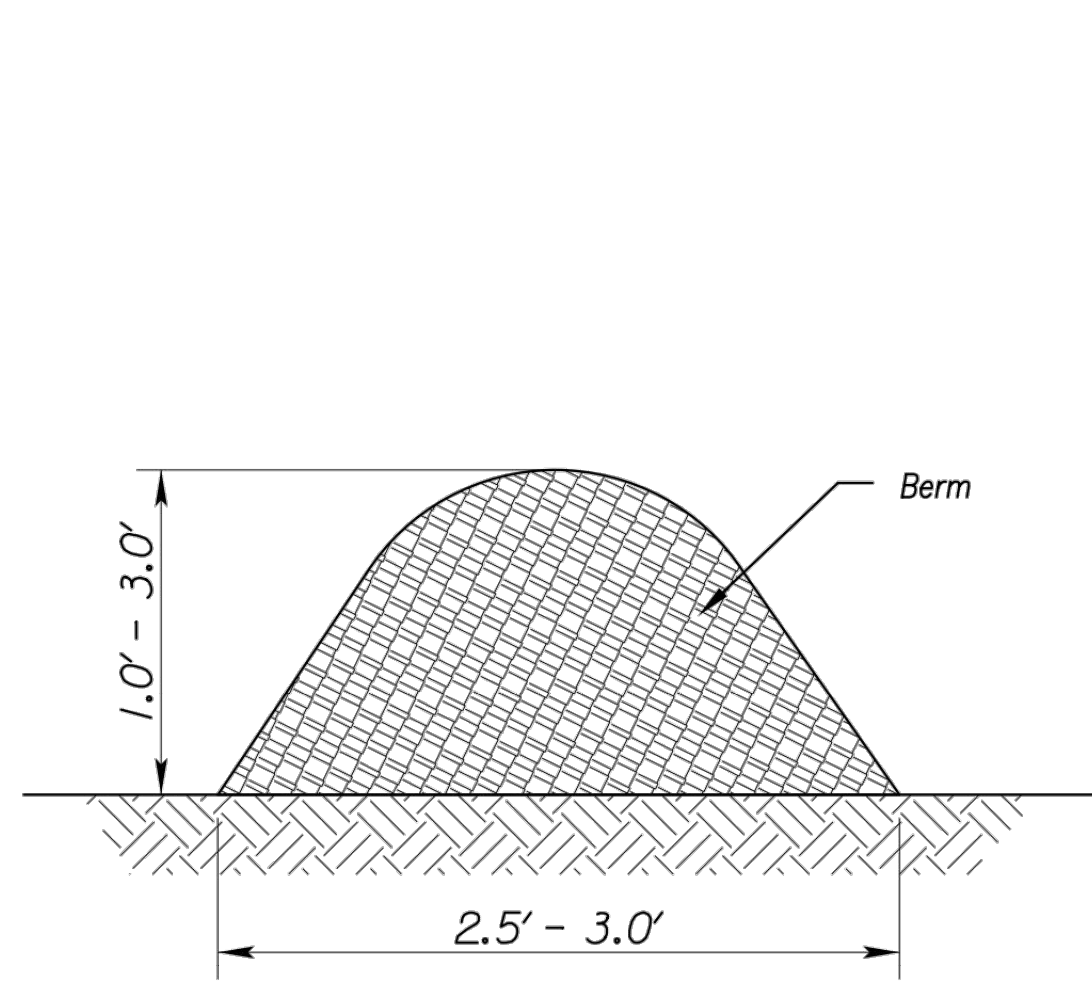




Notes for Wattles and Biodegradable Log Slope Protection:

1. The Slope barriers shall be placed along contour lines, with a short section turned upgrade at each end of the barrier. The maximum length of the slope barrier shall not exceed 250 feet, and the barrier ends need to be staggered.
2. Install wattles and biodegradable logs per manufacturer's instructions.
3. Spacing of stakes per manufacturer's instructions with 4' max. spacing. Length of stakes shall be a minimum of 2 times the diameter of the log with minimum of 24".

WATTLES AND BIODEGRADABLE LOG



MULCH OR COMPOST FILTER BERMS

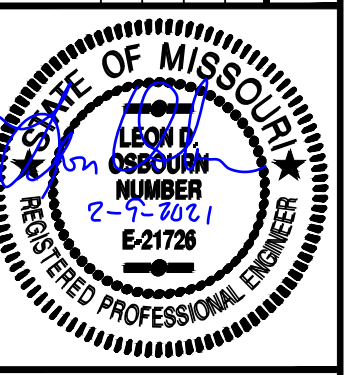
Notes for Mulch and Compost Filter Beam:

1. The sediment control berm shall be placed uncompacted in a windrow at locations shown on the plans or as directed by the engineer.
2. Parallel to the base of the slope, or around the perimeter of other affected areas, construct a 1 to 3 foot high by 2.5 to 3 foot wide berm (see Figure 1). For maximum water treatment ability or for steep slopes, construct a 1.5 to 3 foot high trapezoidal berm that is a minimum of 4 feet wide at the base (see Figure 2). In extreme conditions, or where specified by the engineer, a second berm shall be constructed at the top of the slope. Engineer will specify berm requirements.
3. If berm is to be left as permanent or part of the natural landscape, the compost berm may be seeded during application for permanent vegetation.
4. Do not use compost or wood mulch berms in any runoff channels or concentrated flow areas.
5. Wood mulch shall consist of tree and shrub debris resulting from clearing and grubbing and shall be ground by the mechanical means such as a chipper, hammermill, tub grinder or other approved method. Mulch sizing varies with a maximum width of 2" and a maximum length of 10".

Maintenance for Mulch and Compost Filter Beam:

1. Berm shall be reshaped and material added as necessary to maintain function and dimensions.
2. Breaches in the berm shall be repaired promptly.

REV	DATE	DESCRIPTION	DSN	DWN	CHK
4	2-5-21	AS-BUILT			
2	2-26-19	REVISED PER CITY COMMENT			
1	1-23-19	REVISED PER CITY COMMENT			
0	1-8-19	INITIAL ISSUE			



LEON D. OSBOURN  
ENGINEER  
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**AMERICAN PUBLIC WORKS ASSOCIATION**



KANSAS CITY  
METRO CHAPTER

WATTLES/BIODEGRADABLE LOG  
AND  
MULCH/COMPOST FILTER BERM

STANDARD DRAWING  
NUMBER ESC-04  
ADOPTED:  
10/24/2016

STREETS OF WEST PRYOR  
NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE  
LEES SUMMIT, MISSOURI  
SANITARY SEWER PLANS  
DETAIL SHEET

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

AS-BUILT

PROJ. NO.	DESIGNER	DRAWN BY
A14-7067-1	LDO	JT/BKR
7067-1S_DET		
SHEET	C-17	REV 4