



LEGEND			
	SECTION CORNER, ORIGIN UNKNOWN UNLESS OTHERWISE NOTED		SANITARY SEWER CLEANOUT
	MONUMENT FOUND, ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED		STORM SEWER MANHOLE
	RIGHT-OF-WAY MARKER FOUND		TELEPHONE SIGN
	DESCRIBED		TELEPHONE MANHOLE
	MEASURED		TELEPHONE PEDESTAL
	CALCULATED		UNDERGROUND TELEPHONE LINE
	PLATTED		SPUCE BOX
	STREET SIGN		FIBER OPTIC CABLE SIGN
	CANOPY SUPPORT		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
	OVERHEAD UTILITY - # LINES		HANDICAP PAINTED SYMBOL
	AIR CONDITIONING UNIT		LEFT TURN ARROW
	ELECTRIC PEDESTAL		STRAIGHT ARROW
	ELECTRIC METER		RIGHT TURN ARROW
	ELECTRIC TRANSFORMER		GATE POST
	BREAKER BOX		FENCE POST
	UNDERGROUND ELECTRIC LINE		WOOD FENCE
	UTILITY MANHOLE		CHAIN LINK FENCE
	CABLE TV SIGN		BARBED WIRE FENCE
	CABLE TV PEDESTAL		DECIDUOUS TREE W/SIZE & DRIP LINE
	GAS SIGN		EVERGREEN TREE W/SIZE & DRIP LINE
	GAS METER		SAPPLING TREE
	UNDERGROUND GAS LINE		SHRUB
	WATER LINE		STUMP
	WATER LINE GATE VALVE		TREE LINE
	WATER SPIGOT		SHRUB LINE
	WATER METER		PARKING STALL COUNT
	WELL		1' CONTOUR INTERVAL
	FIRE HYDRANT		RESTRICTED ACCESS
	SPRINKLER VALVE		B/B BACK OF CURB TO BACK OF CURB
	SANITARY SEWER MANHOLE		E/E EDGE TO EDGE
	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.

AS-BUILT

4

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

SANITARY SEWER PLANS  
GENERAL NOTES

PROJ. NO.		A14-7067-1	
DESIGNER	LDO	DRAWN BY	JT/BKR
CFN	7067-1S_GEN		
SHEET	C-2	REV	4



LEON D. OSBOURN  
ENGINEER  
MO # 021726

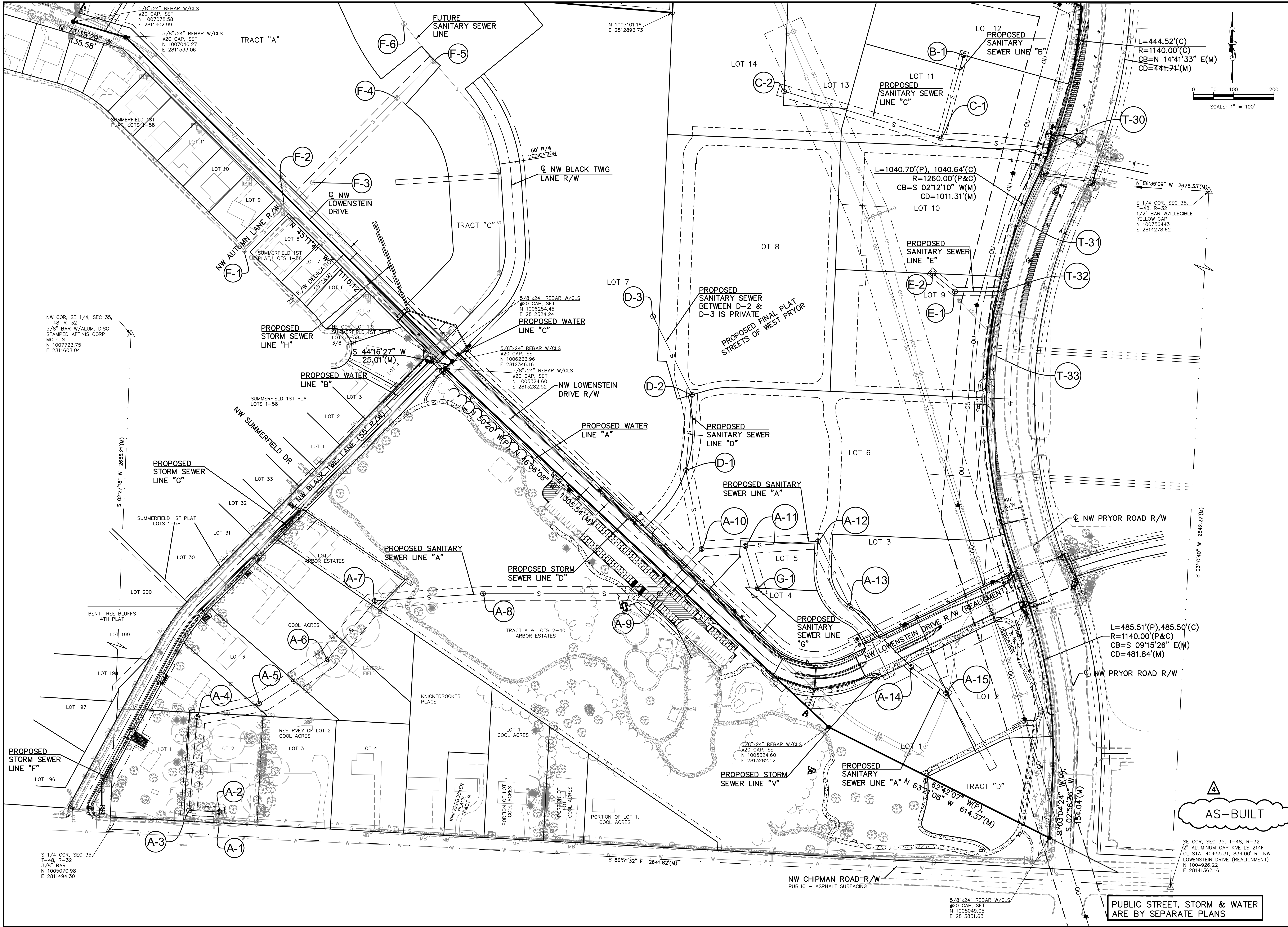
2319 N. JACKSON | P.O. BOX 1304  
JUNCTION CITY, KANSAS 66441  
PH. (785) 762-5040 | FAX (785) 762-7744  
j@kveeng.com | www.kveeng.com

KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 008642. EXPIRES 12/31/19

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REV	DATE	DESCRIPTION
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4	2-5-21	AS-BUILT PLANS

STATE OF MISSOURI  
LEON D. OSBOURN  
ENGINEER  
MO # 021726

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

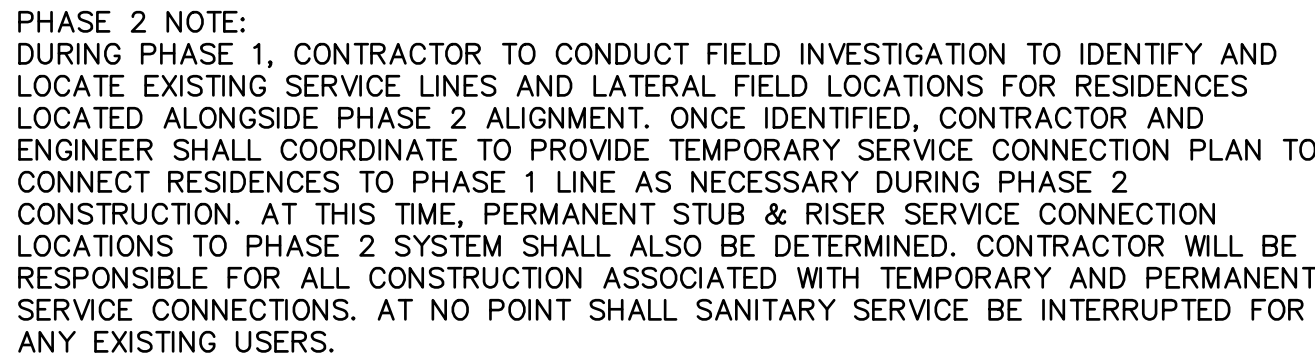
**KAW VALLEY ENGINEERING**  
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EXPIRES 12/31/19

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

**SANITARY SEWER PLANS**  
GENERAL LAYOUT SHEET

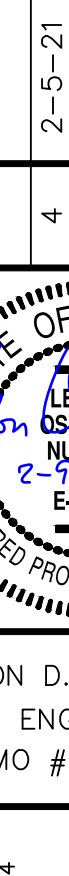
PROJ. NO.	A14-7067-1
DESIGNER	LDO
DRAWN BY	JT/BKR
CFN	7067-1S_GLS
SHEET	C-3
REV	4



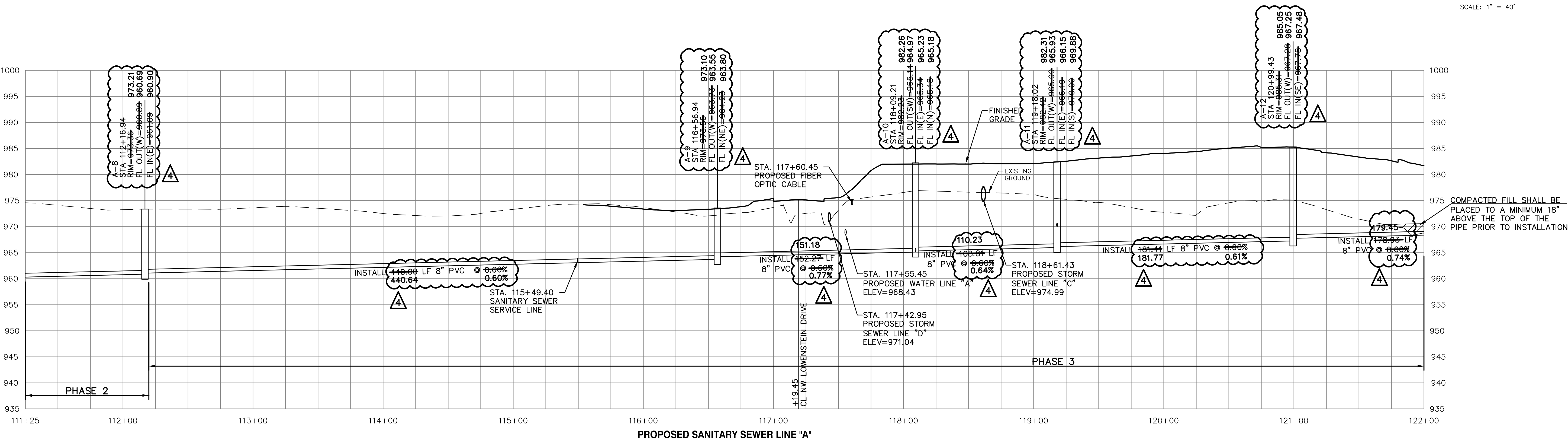
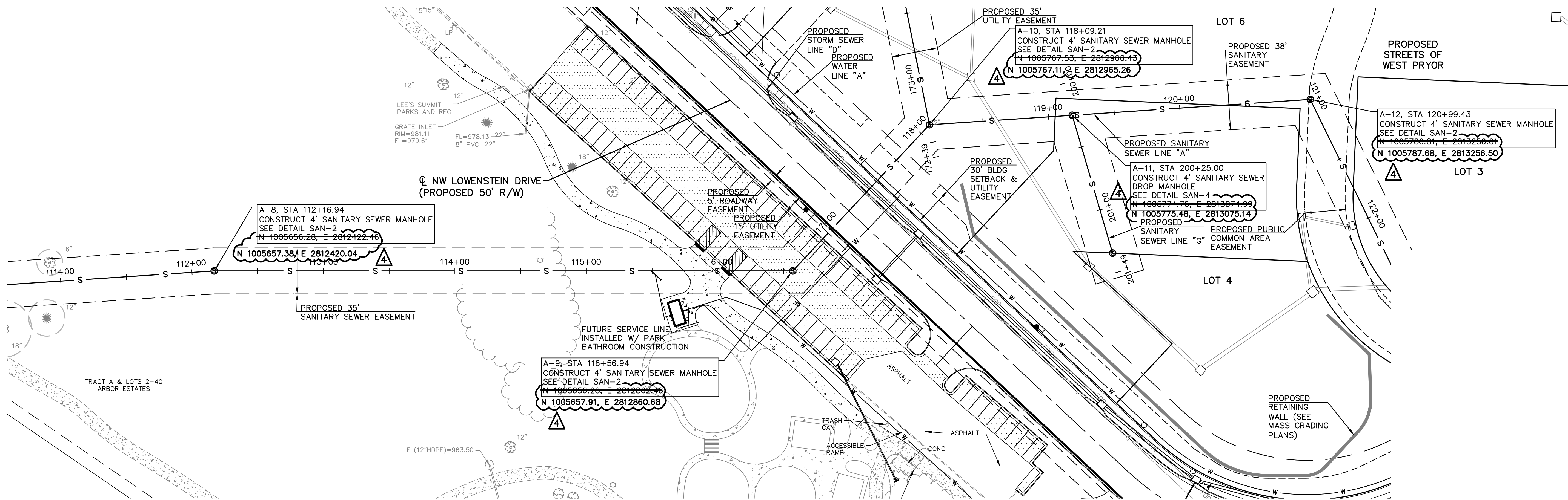


NOTE:  
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STREETS OF WEST PRYOR NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE LEE'S SUMMIT, MISSOURI		 <b>KAW VALLEY ENGINEERING</b> 2319 N. JACKSON   P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 PH. (785) 835-7744 <a href="http://www.kveeng.com">www.kveeng.com</a>				LEON D. OSBOURN ENGINEER MO # 021726		<table><tr><th>REV</th><th>DATE</th><th>DESCRIPTION</th><th>DSN</th><th>DWN</th><th>CHK</th></tr><tr><td>0</td><td>1-8-19</td><td>INITIAL ISSUE</td><td>LDO</td><td>JT/BKR</td><td>LDO</td></tr><tr><td>1</td><td>1-23-19</td><td>REVISED PER CITY COMMENT</td><td>LDO</td><td>JT</td><td>LDO</td></tr><tr><td>2</td><td>2-26-19</td><td>REVISED PER CITY COMMENT</td><td>LDO</td><td>JT</td><td>LDO</td></tr><tr><td>4</td><td>2-5-21</td><td>AS-BUILT</td><td>LDO</td><td>JT</td><td>LDO</td></tr></table>		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	4	2-5-21	AS-BUILT	LDO	JT	LDO
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SANITARY SEWER PLANS SANITARY SEWER LINE A		KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19																																					
PROJ. NO. <b>A14_7067-1</b>		DESIGNER <b>LDO</b>		DRAWING BY <b>JT/BKR</b>																																			
CEN <b>7067-1S_SPP</b>		SHEET <b>C-4</b>		REV <b>4</b>																																			





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

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LDO	JT	LDO
LDO	JT	LDO
LDO	JT	LDO
LDO	JT/BKR	LDO

STATE OF MISSOURI  
LEON D. OSBOURN  
REGISTERED PROFESSIONAL ENGINEER  
NUMBER 2-17-021  
EXPIRES 12/31/19

LEON D. OSBOURN  
ENGINEER  
MO # 021726

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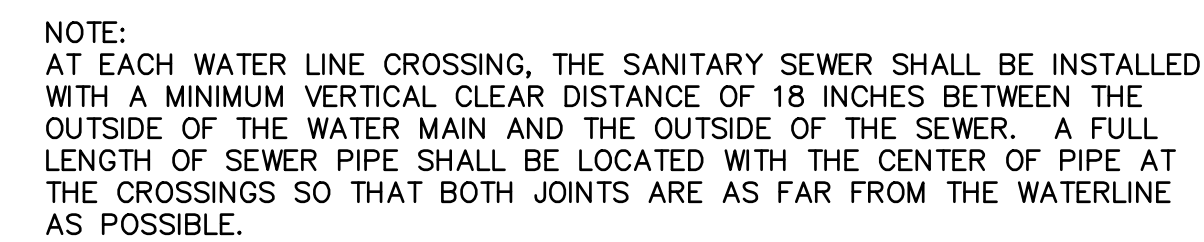
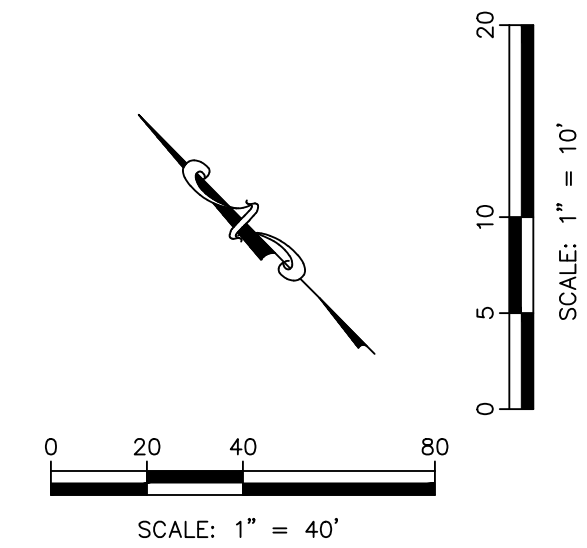
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**STREETS OF WEST PRYOR**  
NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE  
LEE'S SUMMIT, MISSOURI



**SANITARY SEWER PLANS**  
SANITARY SEWER LINE A

PROJ. NO. **A14-7067-1**  
DESIGNER **LDO** DRAWN BY **JT/BKR**  
SHEET **7067-1S\_SPP** REV **C-5** 4

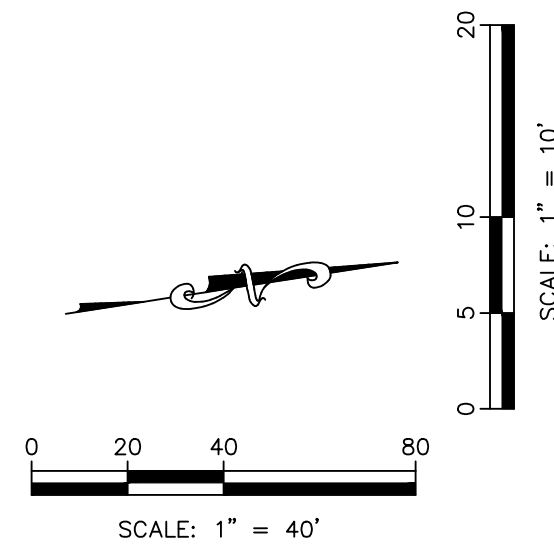




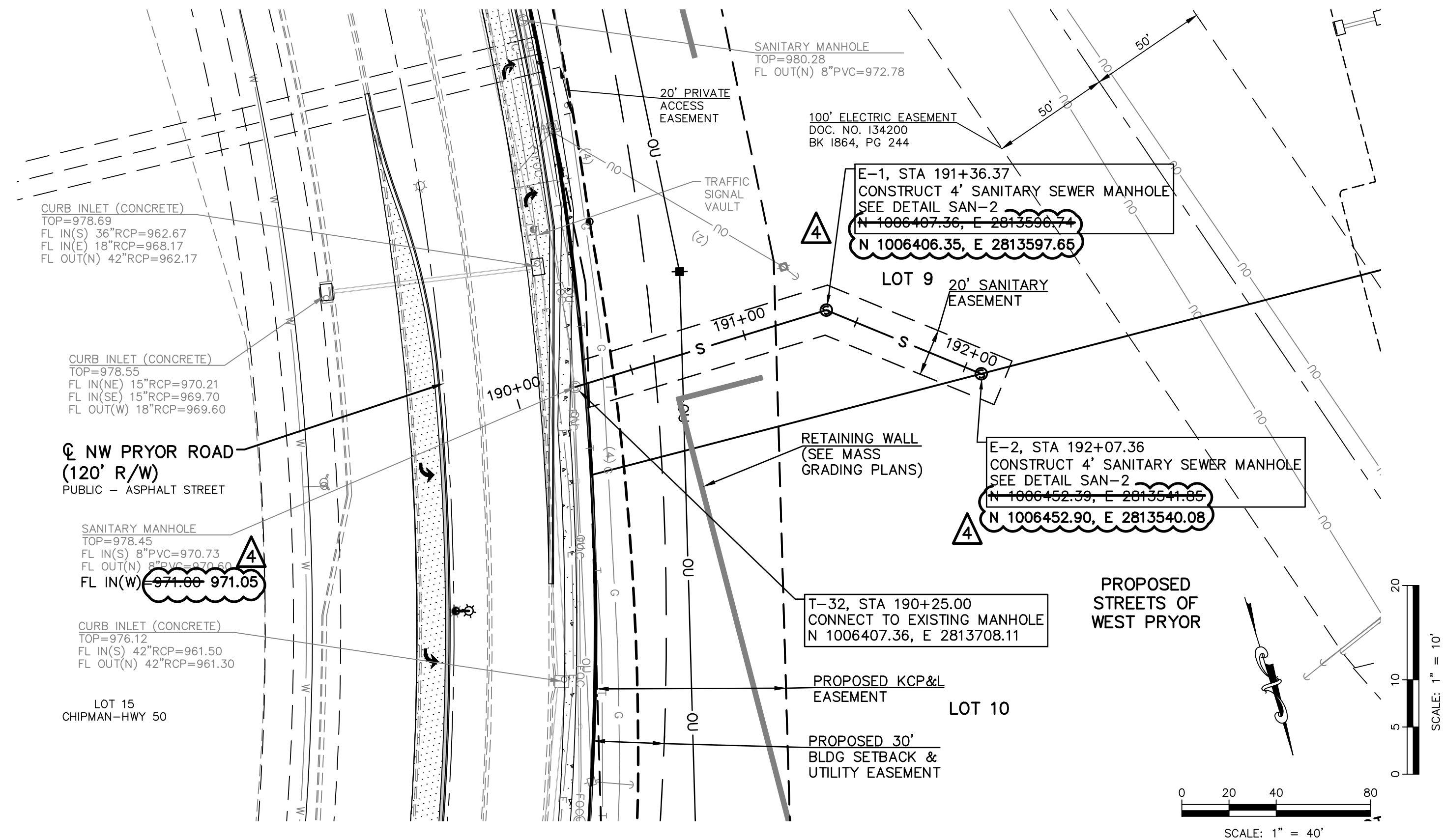
PUBLIC STREET, STORM & WATER  
ARE BY SEPARATE PLANS

<div>2319 N. JACKSON   P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 PH. (785) 762-5040   FAX (785) 762-7744 jckweng.com   www.kvweng.com</div> <div><p><b>KAW VALLEY ENGINEERING</b></p><p>KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE. CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19</p></div>		<div>LEON D. OSBOURN ENGINEER MO # 021726</div> <div></div>		<table><tr><th>REV</th><th>DATE</th><th>DESCRIPTION</th></tr><tr><td>0</td><td>1-8-19</td><td>INITIAL ISSUE</td></tr><tr><td>1</td><td>1-23-19</td><td>REVISED PER CITY COMMENT</td></tr><tr><td>2</td><td>2-26-19</td><td>REVISED PER CITY COMMENT</td></tr><tr><td>3</td><td>4-15-19</td><td>REVISED PER CITY COMMENT</td></tr><tr><td>4</td><td>2-5-21</td><td>AS-BUILT PLANS</td></tr></table>		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	<table><tr><td>LDO</td><td>JT</td><td>LDO</td></tr><tr><td>LDO</td><td>JT</td><td>LDO</td></tr><tr><td>LDO</td><td>JT</td><td>LDO</td></tr><tr><td>LDO</td><td>JT</td><td>LDO</td></tr><tr><td>LDO</td><td>JT</td><td>LDO</td></tr><tr><td>LDO</td><td>JT/BKR</td><td>LDO</td></tr><tr><td>DSN</td><td>DWN</td><td>CHK</td></tr></table>		LDO	JT	LDO	LDO	JT	LDO	LDO	JT	LDO	LDO	JT	LDO	LDO	JT	LDO	LDO	JT/BKR	LDO	DSN	DWN	CHK
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SHEET		REV																																												





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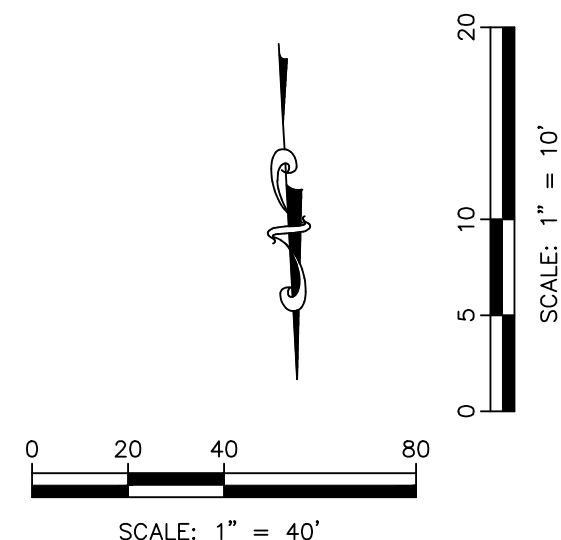


AS-BUILT

PUBLIC STREET, STORM & WATER  
ARE BY SEPARATE PLANS

STREETS OF WEST PRYOR NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE LEE'S SUMMIT, MISSOURI		PROJ. NO. A14-7067-1		DESIGNER		DRAWN BY									
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SANITARY SEWER PLANS SANITARY SEWER LINE B & E- PLAN & PROFILE		CFN 7067-1S_SPP		SHEET C-7		REV									
						4									
 <p>2319 N. JACKSON   P.O. BOX 1304 PH. (785) 762-5040   FAX (785) 762-7744 kveng.com   www.kveng.com</p> <p><b>KAW VALLEY ENGINEERING</b></p> <p>KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19</p>		 <p>LEON D. OSBOURN ENGINEER MO # 021726</p>		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	





This profile view illustrates the proposed sanitary sewer line 'C' along with existing infrastructure. The vertical axis represents elevation in feet, ranging from 950 to 1025. The horizontal axis shows stationing from 150+00 to 157+00.57.

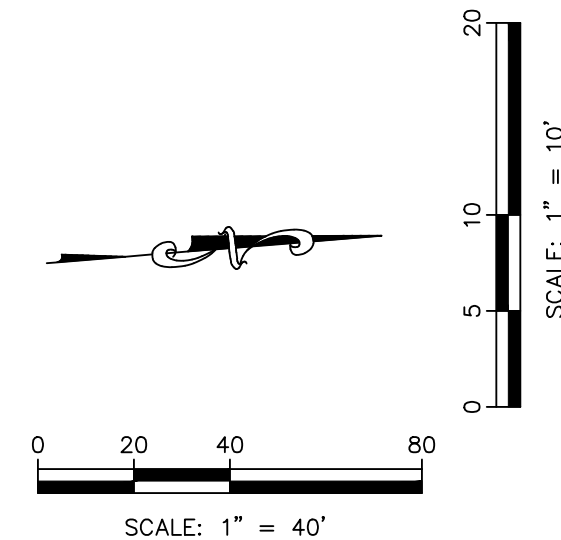
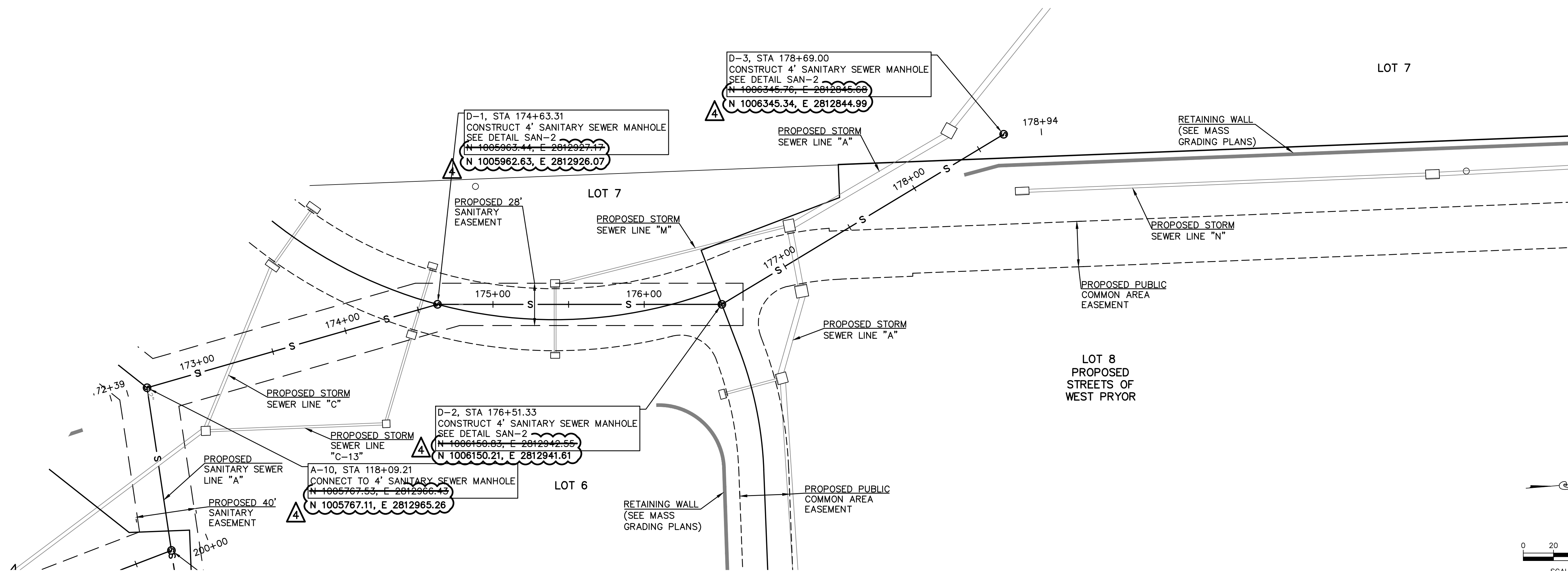
**Key Features and Data:**

- Proposed Storm Sewer Line "J-2":** STA. 151+04.93, ELEV=973.21.
- Proposed Storm Sewer Line "J-3":** STA. 152+41.74, ELEV=983.30.
- Proposed Sanitary Sewer Line "C":**
  - Segment 1: STA. 150+04.21 to 150+06.19, EX. UNDERGROUND ELECTRIC, DEPTH UNKNOWN.
  - Segment 2: STA. 150+16.03, EXISTING 42" STORM SEWER, ELEV=959.68.
  - Segment 3: STA. 150+23.27, EX. GAS LINE, DEPTH UNKNOWN.
  - Segment 4: STA. 150+18.54, EX. TELEPHONE LINE, DEPTH UNKNOWN.
  - Segment 5: STA. 150+14.57, EX. FIBER OPTIC CABLE TO BE ABANDONED, DEPTH UNKNOWN.
  - Segment 6: STA. 150+04.21 to 150+06.19, EX. UNDERGROUND ELECTRIC, DEPTH UNKNOWN.
- Manholes:**
  - Manhole 1: STA. 150+04.21, ELEV=975.00, RM=972.71, FL IN(W)=964.95, FL IN(SW)=964.75, FL OUT(E)=964.66.
  - Manhole 2: STA. 151+04.93, ELEV=973.21.
  - Manhole 3: STA. 152+41.74, ELEV=983.30.
  - Manhole 4: STA. 156+63.10, ELEV=983.25.
- Ground and Grade:**
  - EXISTING GROUND: Dashed line.
  - FINISHED GRADE: Solid line.
- Installation Details:**
  - INSTALL 277.95 LF 8" PVC @ 4.06% 3.96% (Elevations: 977.95, 978.18).
  - INSTALL 466.95 LF 8" PVC @ 4.04% 0.98% (Elevations: 977.95, 978.18).

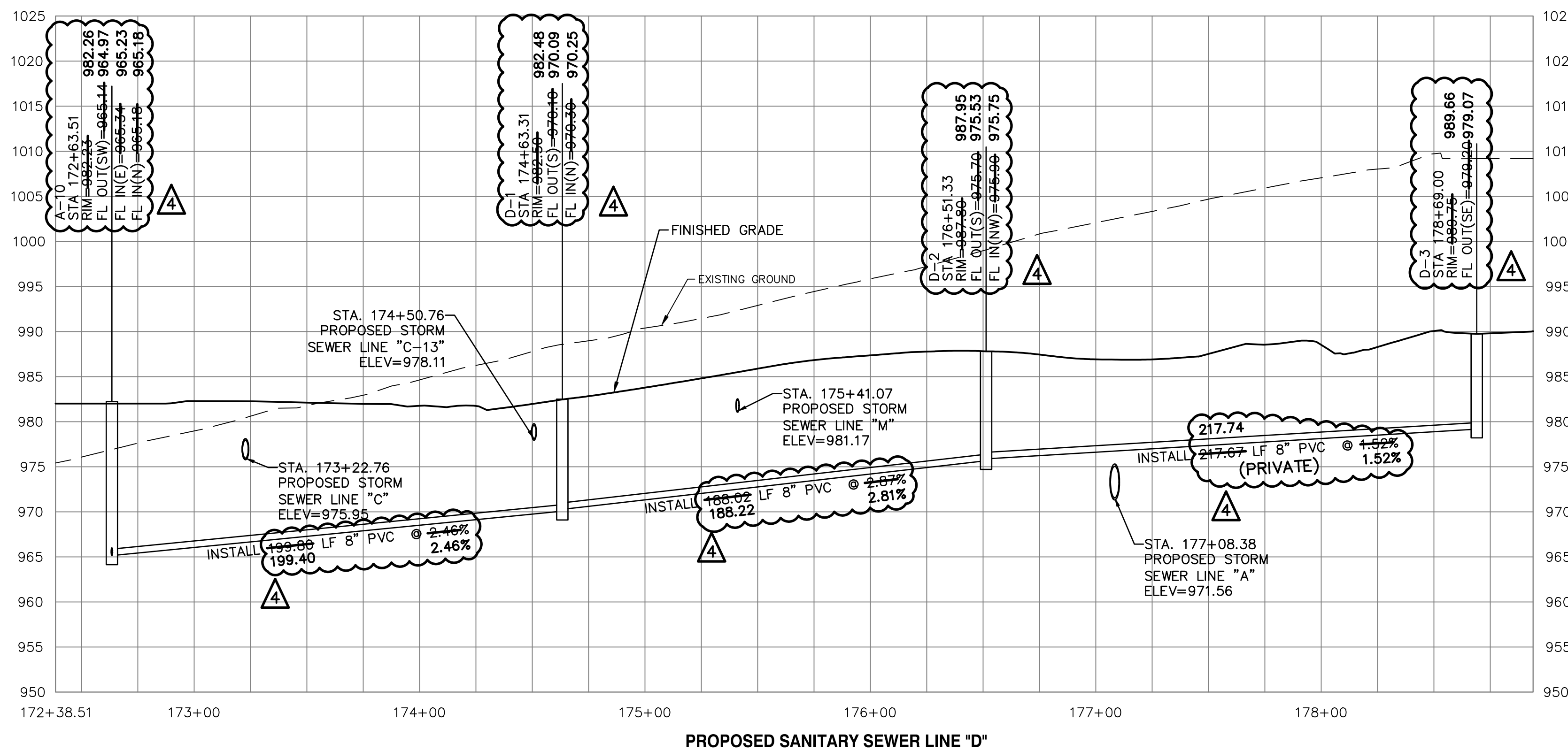
PUBLIC STREET, STORM & WATER  
ARE BY SEPARATE PLANS

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.





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
SHEET C-9	
REV 4	

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

LEON D. OSBOURN  
ENGINEER  
MO # 021726

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

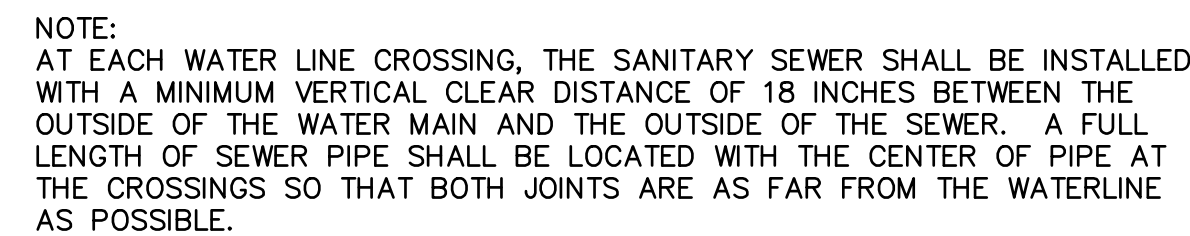
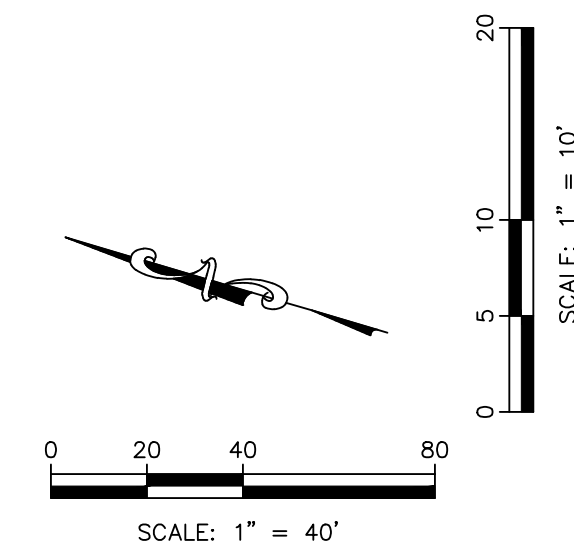
**KAW VALLEY ENGINEERING**

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 008642. EXPIRES 12/31/19

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

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

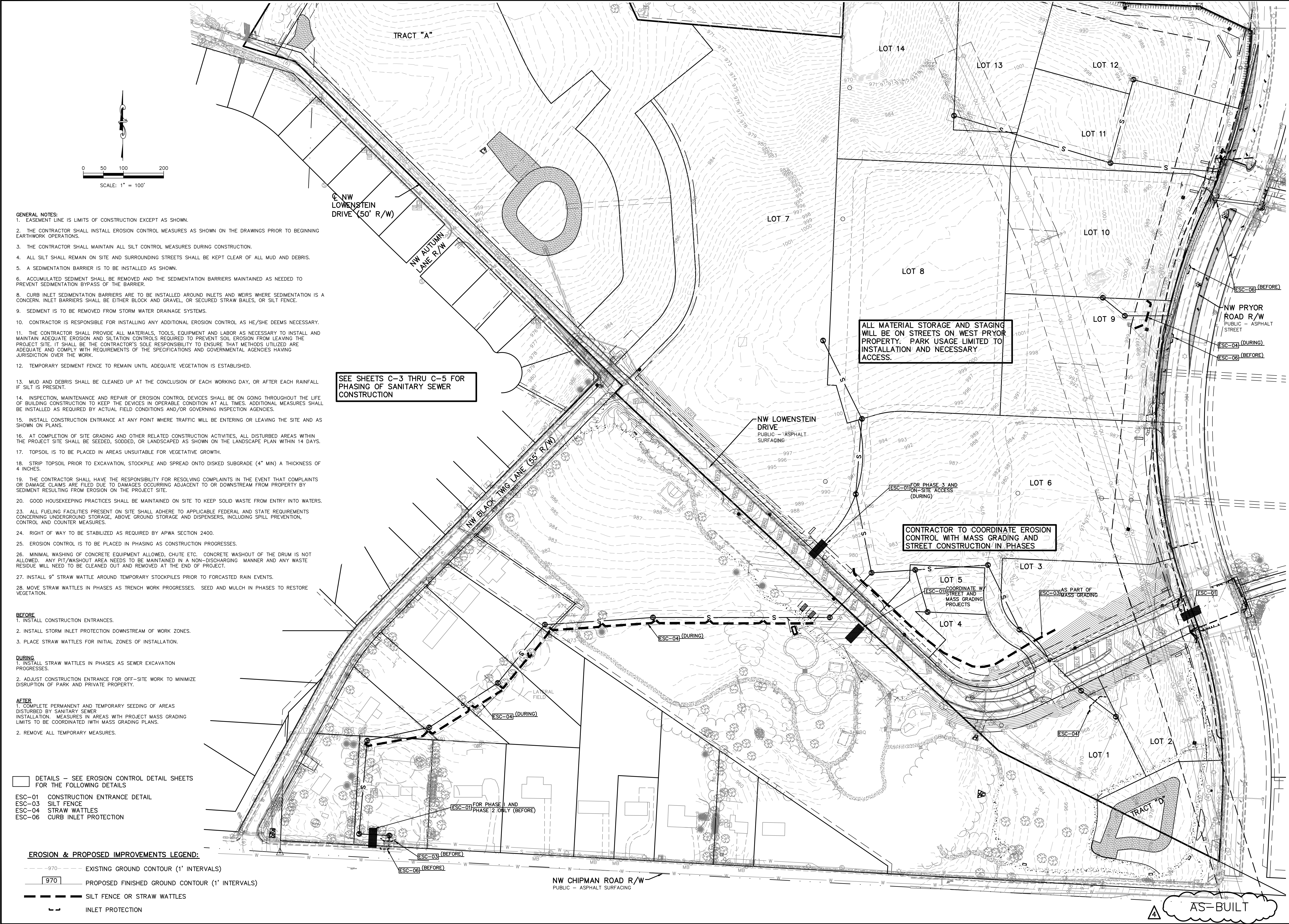




PUBLIC STREET, STORM & WATER  
ARE BY SEPARATE PLANS

<div>STREETS OF WEST PRYOR</div> <div>NWQ NW PRYOR ROAD &amp; NW LOWENSTEIN DRIVE</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>SANITARY SEWER PLANS</div> <div>SANITARY SEWER LINE G - PLAN &amp; PROFILE</div>		PROJ. NO.		A14_7067-1											
		DESIGNER		LDO		DRAWN BY		JT/BKR							
		CFN		7067-1S_SPP											
		SHEET		C-10		REV		4							
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- GENERAL NOTES:**
- EASEMENT LINE IS LIMITS OF CONSTRUCTION EXCEPT AS SHOWN.
  - THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING EARTHWORK OPERATIONS.
  - THE CONTRACTOR SHALL MAINTAIN ALL SILT CONTROL MEASURES DURING CONSTRUCTION.
  - ALL SILT SHALL REMAIN ON SITE AND SURROUNDING STREETS SHALL BE KEPT CLEAR OF ALL MUD AND DEBRIS.
  - A SEDIMENTATION BARRIER IS TO BE INSTALLED AS SHOWN.
  - ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE SEDIMENTATION BARRIERS MAINTAINED AS NEEDED TO PREVENT SEDIMENTATION BYPASS OF THE BARRIER.
  - CURB INLET SEDIMENTATION BARRIERS ARE TO BE INSTALLED AROUND INLETS AND WEIRS WHERE SEDIMENTATION IS A CONCERN. INLET BARRIERS SHALL BE EITHER BLOCK AND GRAVEL, OR SECURED STRAW BALES, OR SILT FENCE.
  - SEDIMENT IS TO BE REMOVED FROM STORM WATER DRAINAGE SYSTEMS.
  - CONTRACTOR IS RESPONSIBLE FOR INSTALLING ANY ADDITIONAL EROSION CONTROL AS HE/SHE DEEMS NECESSARY.
  - THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, EQUIPMENT AND LABOR AS NECESSARY TO INSTALL AND MAINTAIN ADEQUATE EROSION AND SILTATION CONTROLS REQUIRED TO PREVENT SOIL EROSION FROM LEAVING THE PROJECT SITE. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THAT METHODS UTILIZED ARE ADEQUATE AND COMPLY WITH REQUIREMENTS OF THE SPECIFICATIONS AND GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
  - TEMPORARY SEDIMENT FENCE TO REMAIN UNTIL ADEQUATE VEGETATION IS ESTABLISHED.
  - MUD AND DEBRIS SHALL BE CLEANED UP AT THE CONCLUSION OF EACH WORKING DAY, OR AFTER EACH RAINFALL IF SILT IS PRESENT.
  - INSPECTION, MAINTENANCE AND REPAIR OF EROSION CONTROL DEVICES SHALL BE ON GOING THROUGHOUT THE LIFE OF BUILDING CONSTRUCTION TO KEEP THE DEVICES IN OPERABLE CONDITION AT ALL TIMES. ADDITIONAL MEASURES SHALL BE INSTALLED AS REQUIRED BY ACTUAL FIELD CONDITIONS AND/OR GOVERNING INSPECTION AGENCIES.
  - INSTALL CONSTRUCTION ENTRANCE AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING THE SITE AND AS SHOWN ON PLANS.
  - AT COMPLETION OF SITE GRADING AND OTHER RELATED CONSTRUCTION ACTIVITIES, ALL DISTURBED AREAS WITHIN THE PROJECT SITE SHALL BE SEEDED, SODDED, OR LANDSCAPED AS SHOWN ON THE LANDSCAPE PLAN WITHIN 14 DAYS.
  - TOPSOIL IS TO BE PLACED IN AREAS UNSUITABLE FOR VEGETATIVE GROWTH.
  - STRIP TOPSOIL PRIOR TO EXCAVATION, STOCKPILE AND SPREAD ONTO DISKED SUBGRADE (4" MIN) A THICKNESS OF 4 INCHES.
  - THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY FOR RESOLVING COMPLAINTS IN THE EVENT THAT COMPLAINTS OR DAMAGE CLAIMS ARE FILED DUE TO DAMAGES OCCURRING ADJACENT TO OR DOWNSTREAM FROM PROPERTY BY SEDIMENT RESULTING FROM EROSION ON THE PROJECT SITE.
  - GOOD HOUSEKEEPING PRACTICES SHALL BE MAINTAINED ON SITE TO KEEP SOLID WASTE FROM ENTRY INTO WATERS.
  - ALL FUELING FACILITIES PRESENT ON SITE SHALL ADHERE TO APPLICABLE FEDERAL AND STATE REQUIREMENTS CONCERNING UNDERGROUND STORAGE, ABOVE GROUND STORAGE AND DISPENSERS, INCLUDING SPILL PREVENTION, CONTROL AND COUNTER MEASURES.
  - RIGHT OF WAY TO BE STABILIZED AS REQUIRED BY APWA SECTION 2400.
  - EROSION CONTROL IS TO BE PLACED IN PHASING AS CONSTRUCTION PROGRESSES.
  - MINIMAL WASHING OF CONCRETE EQUIPMENT ALLOWED. CHUTE ETC. CONCRETE WASHOUT OF THE DRUM IS NOT ALLOWED. ANY PIT/WASHOUT AREA NEEDS TO BE MAINTAINED IN A NON-DISCHARGING MANNER AND ANY WASTE RESIDUE WILL NEED TO BE CLEANED OUT AND REMOVED AT THE END OF PROJECT.
  - INSTALL 9" STRAW WATTLE AROUND TEMPORARY STOCKPILES PRIOR TO FORECASTED RAIN EVENTS.
  - MOVE STRAW WATTLES IN PHASES AS TRENCH WORK PROGRESSES. SEED AND MULCH IN PHASES TO RESTORE VEGETATION.

- BEFORE**
- INSTALL CONSTRUCTION ENTRANCES.
  - INSTALL STORM INLET PROTECTION DOWNSTREAM OF WORK ZONES.
  - PLACE STRAW WATTLES FOR INITIAL ZONES OF INSTALLATION.
- DURING**
- INSTALL STRAW WATTLES IN PHASES AS SEWER EXCAVATION PROGRESSES.
  - ADJUST CONSTRUCTION ENTRANCE FOR OFF-SITE WORK TO MINIMIZE DISRUPTION OF PARK AND PRIVATE PROPERTY.
- AFTER**
- COMPLETE PERMANENT AND TEMPORARY SEEDING OF AREAS DISTURBED BY SANITARY SEWER INSTALLATION. MEASURES IN AREAS WITH PROJECT MASS GRADING LIMITS TO BE COORDINATED WITH MASS GRADING PLANS.
  - REMOVE ALL TEMPORARY MEASURES.

- DETAILS - SEE EROSION CONTROL DETAIL SHEETS FOR THE FOLLOWING DETAILS
- ESC-01 CONSTRUCTION ENTRANCE DETAIL
  - ESC-03 SILT FENCE
  - ESC-04 STRAW WATTLES
  - ESC-06 CURB INLET PROTECTION

- EROSION & PROPOSED IMPROVEMENTS LEGEND:**
- 970--- EXISTING GROUND CONTOUR (1' INTERVALS)
  - [ 970 ] PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS)
  - SILT FENCE OR STRAW WATTLES
  - INLET PROTECTION

ALL MATERIAL STORAGE AND STAGING WILL BE ON STREETS ON WEST PRYOR PROPERTY. PARK USAGE LIMITED TO INSTALLATION AND NECESSARY ACCESS.

CONTRACTOR TO COORDINATE EROSION CONTROL WITH MASS GRADING AND STREET CONSTRUCTION IN PHASES

LOT 5  
ESC-01 COORDINATE W STREET AND MASS GRADING PROJECTS

LOT 3  
AS PART OF ESC-03 MASS GRADING

ESC-01 FOR PHASE 1 AND PHASE 2 ONLY (BEFORE)

ESC-03 (BEFORE)

ESC-06 (BEFORE)

AS-BUILT

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

STATE OF MISSOURI  
LEON D. OSBOURN  
ENGINEER  
NO. 021726

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

**KAW VALLEY ENGINEERING**  
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 008642.  
EXPIRES 12/31/19

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

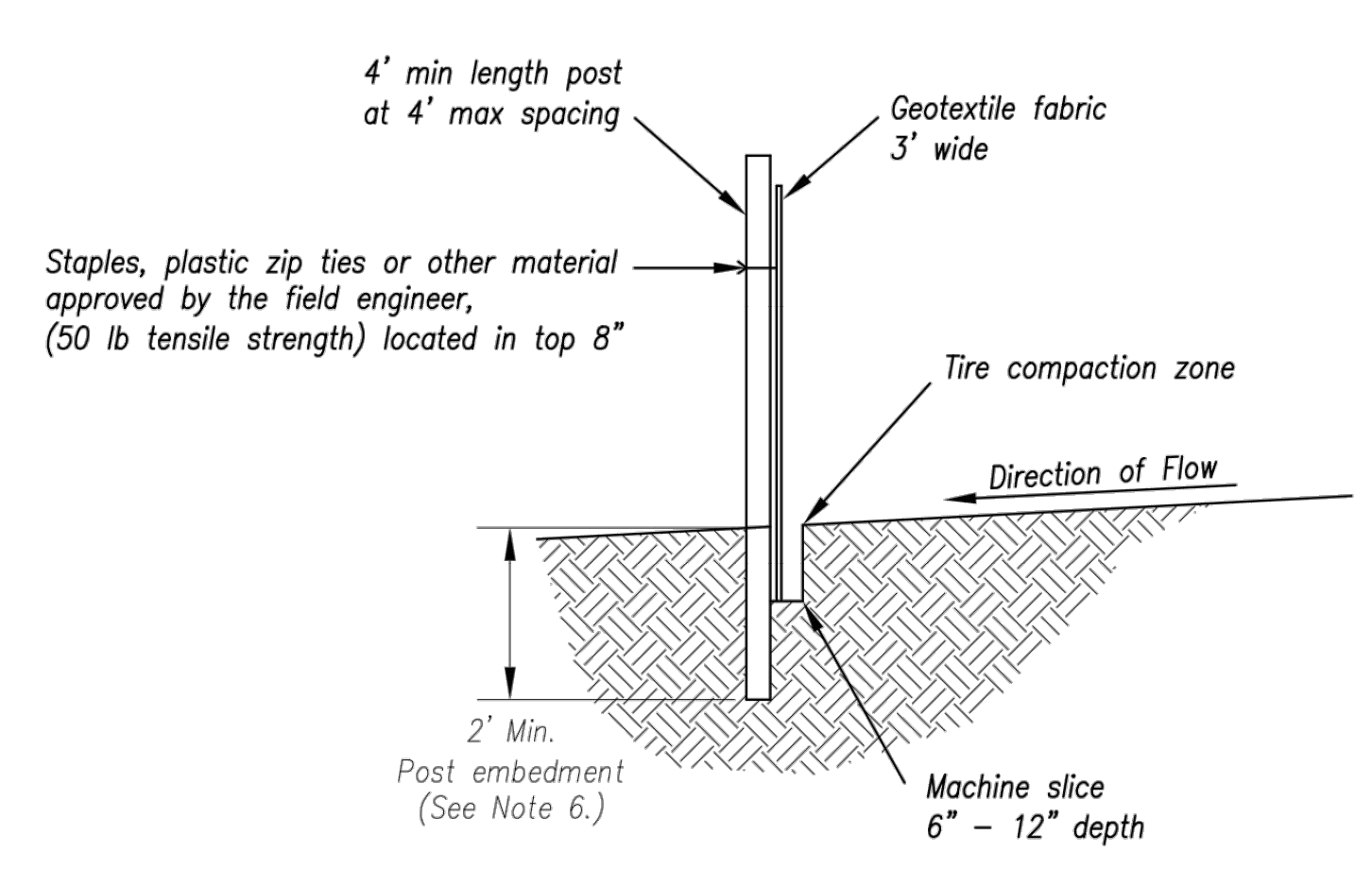
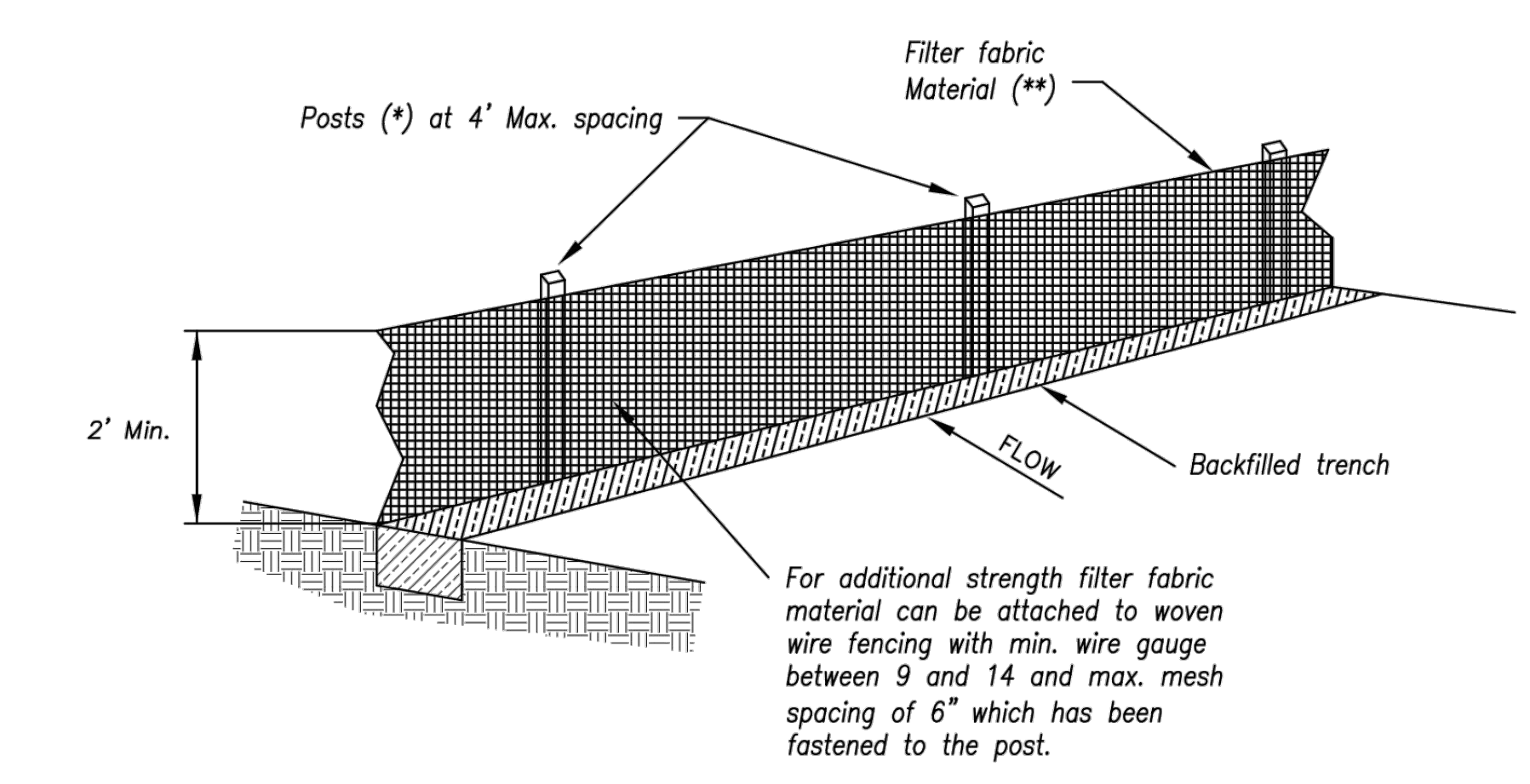
**SANITARY SEWER PLANS**  
EROSION CONTROL PLAN

PROJ. NO. A14-7067-1  
DESIGNER LDO  
DRAWN BY JT/BKR  
DATE 2-5-21  
REV 4





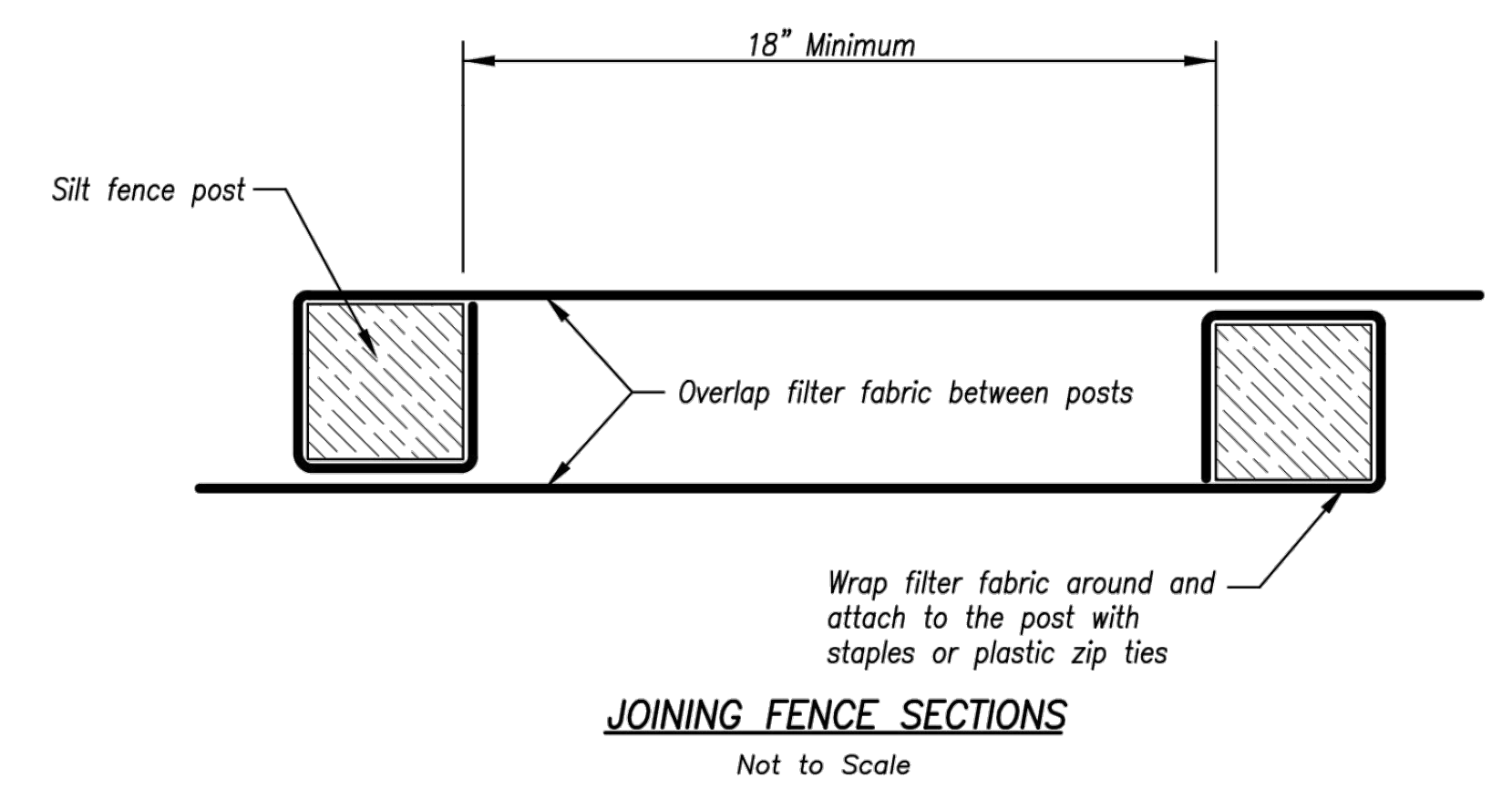
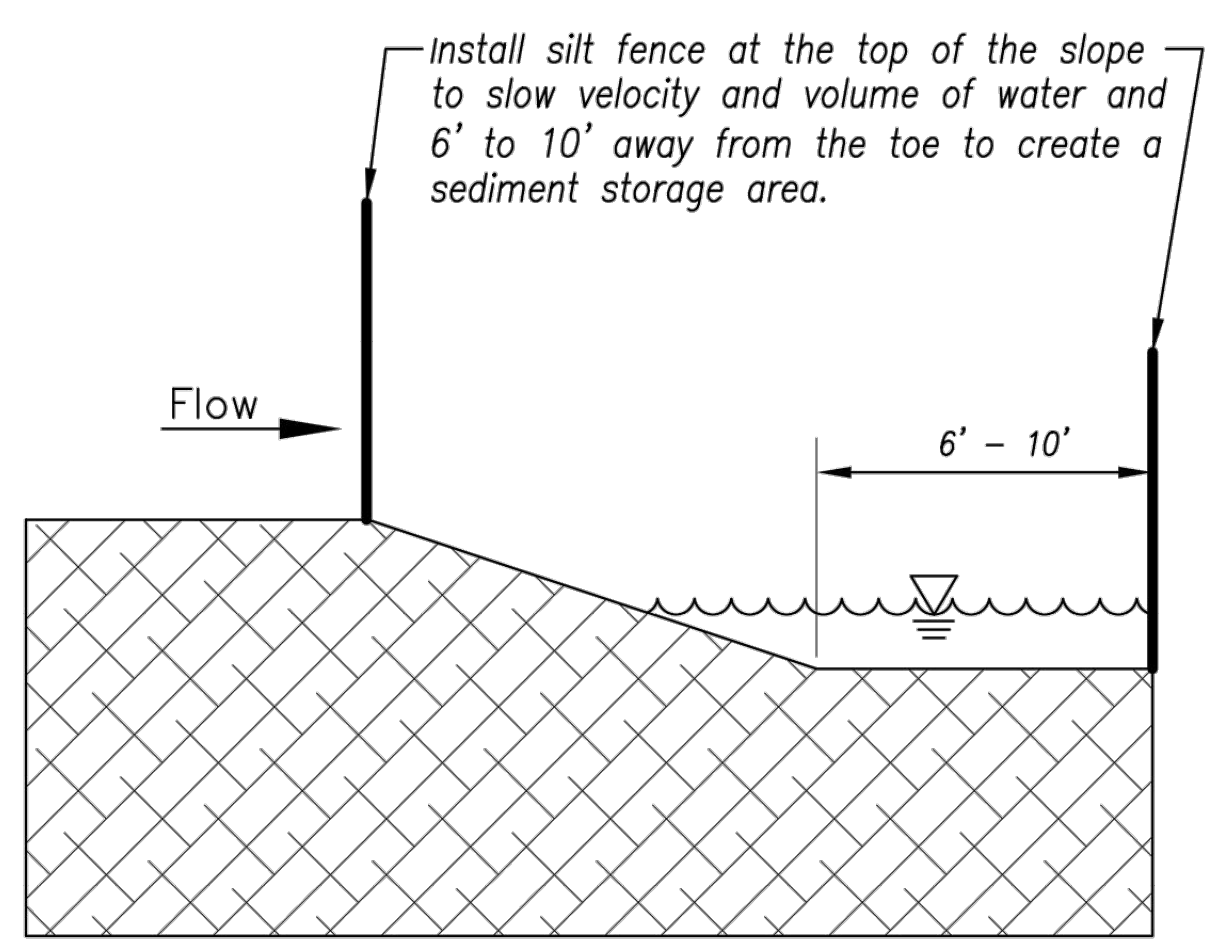
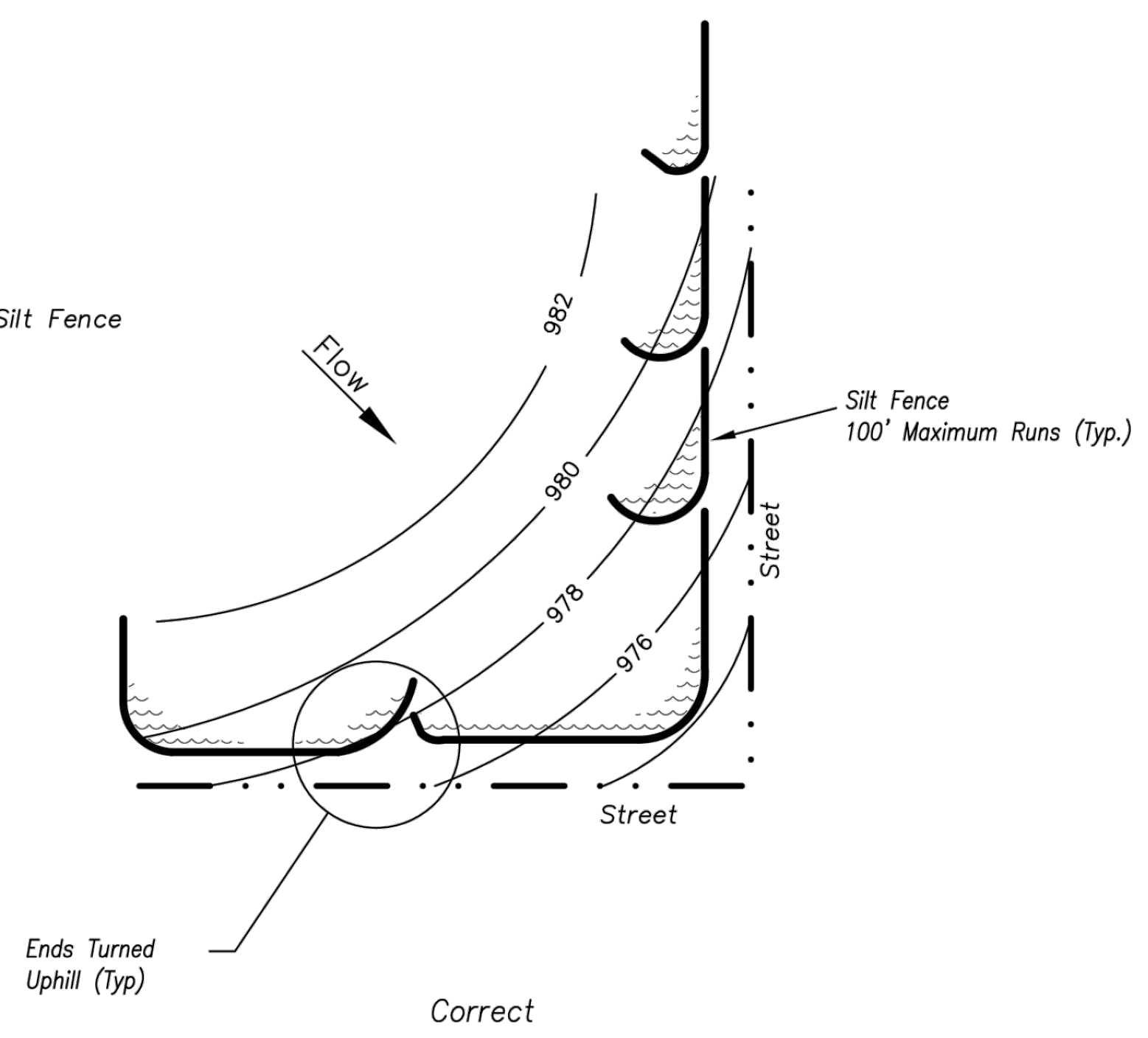
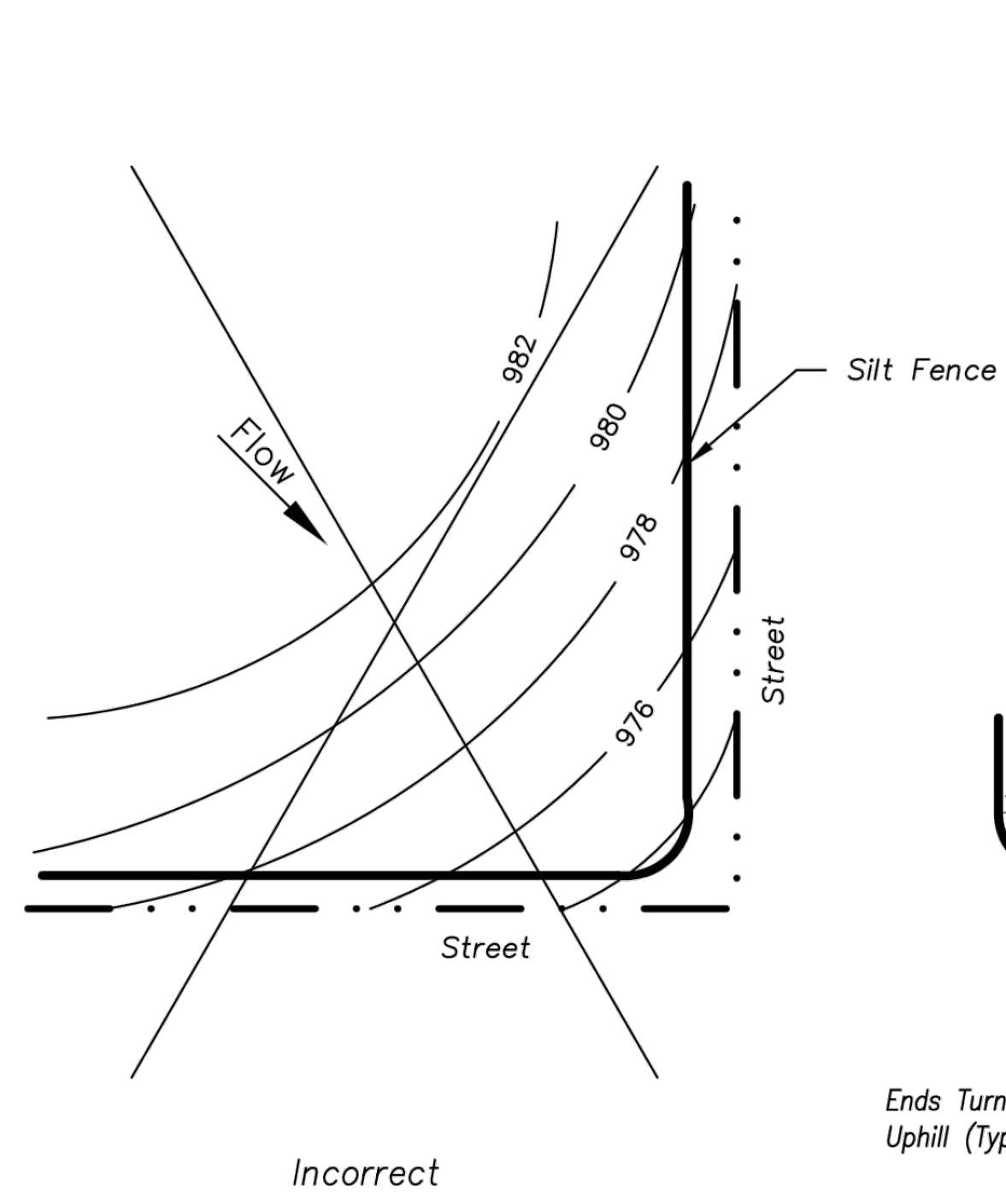




- (\*) POSTS
- MIN. LENGTH 4'
  - HARDWOOD 1 3/8" x 1 3/16"
  - NO.2 SOUTHERN PINE 2 5/8" x 2 5/8"
  - STEEL 1.33 LB/FT

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

**SILT FENCE DETAILS**  
Not to Scale



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

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

AS-BUILT

AMERICAN PUBLIC WORKS ASSOCIATION

Kansas City Metro Chapter

APWA

AMERICAN PUBLIC WORKS ASSOCIATION

KANSAS CITY  
METRO CHAPTER

SILT FENCE

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

PROJ. NO. A14-7067-1

DESIGNER LDO

DRAWN BY JT/BKR

CFN 7067-1S\_DET

SHEET

REV 4

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

SANITARY SEWER PLANS  
DETAIL SHEET

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EXPIRES 12/31/19

LEON D. OSBOURN  
ENGINEER  
MO # 021726

STATE OF MISSOURI  
REGISTERED PROFESSIONAL ENGINEER  
NUMBER 2-9-02  
E-0708

AS-BUILT PLANS

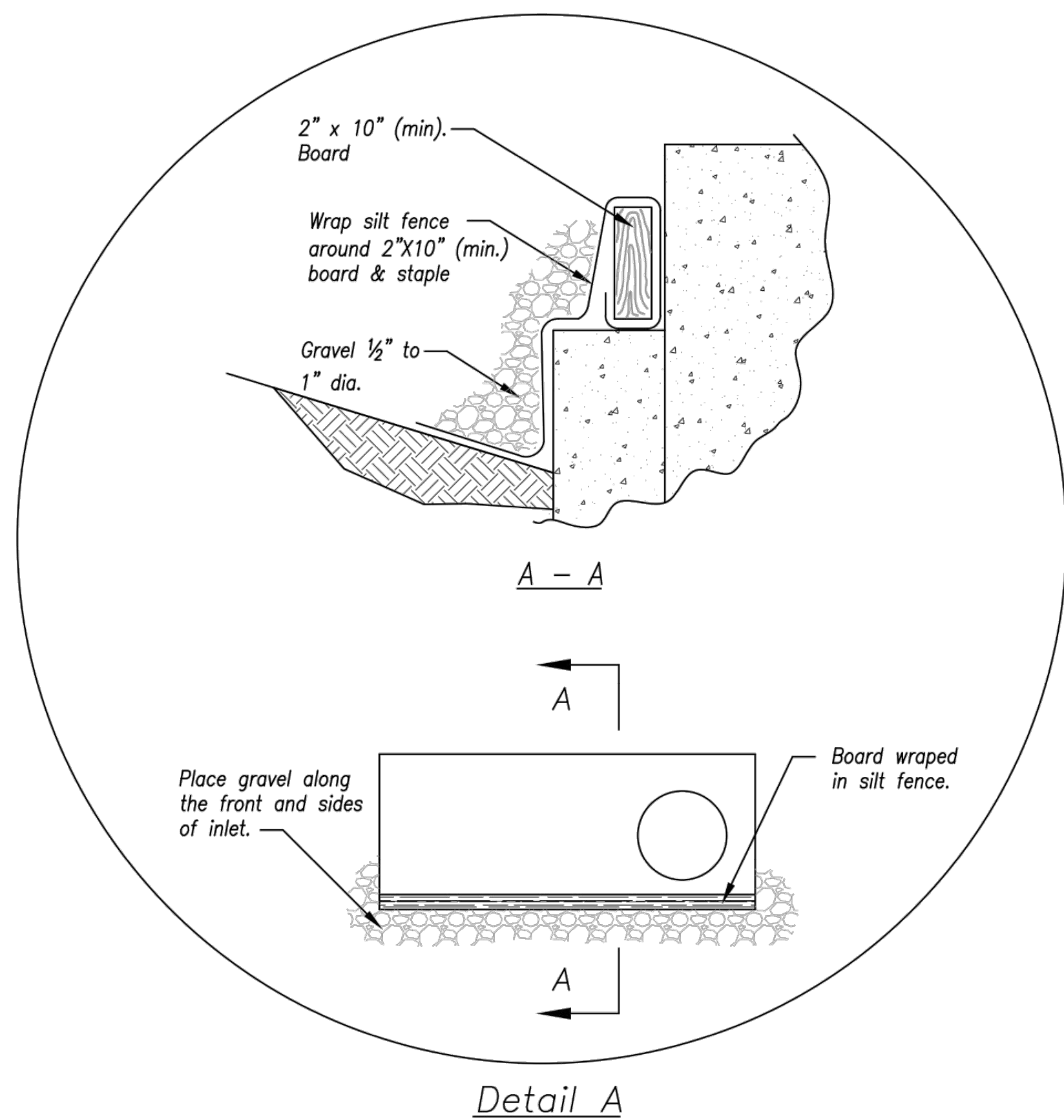
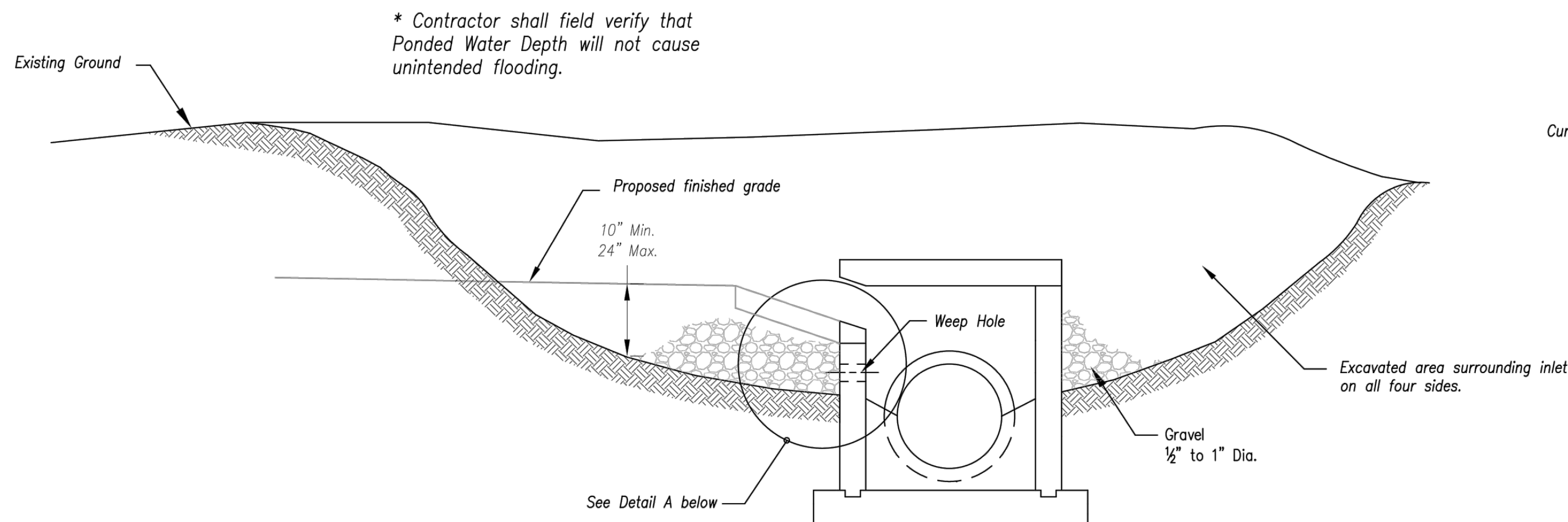
REVISED PER CITY COMMENT

INITIAL ISSUE

REV DATE DESCRIPTION

DSN DWN CHK





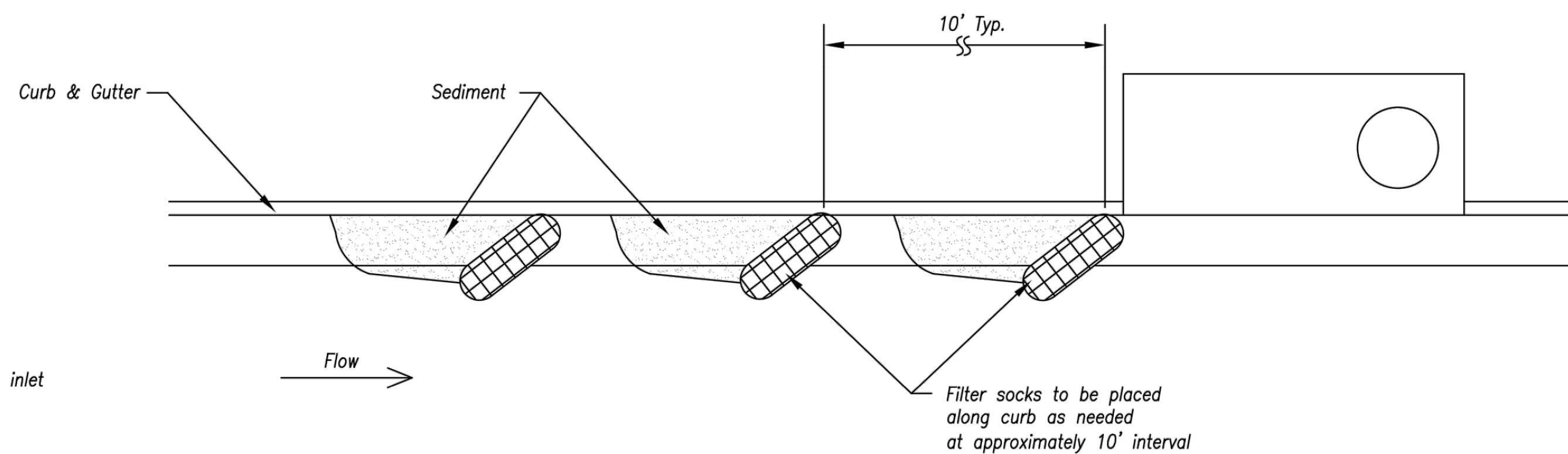
EARLY STAGE CURB INLET  
(Open Box and Prior to Pouring Curb and Inlet Throat)

Notes:

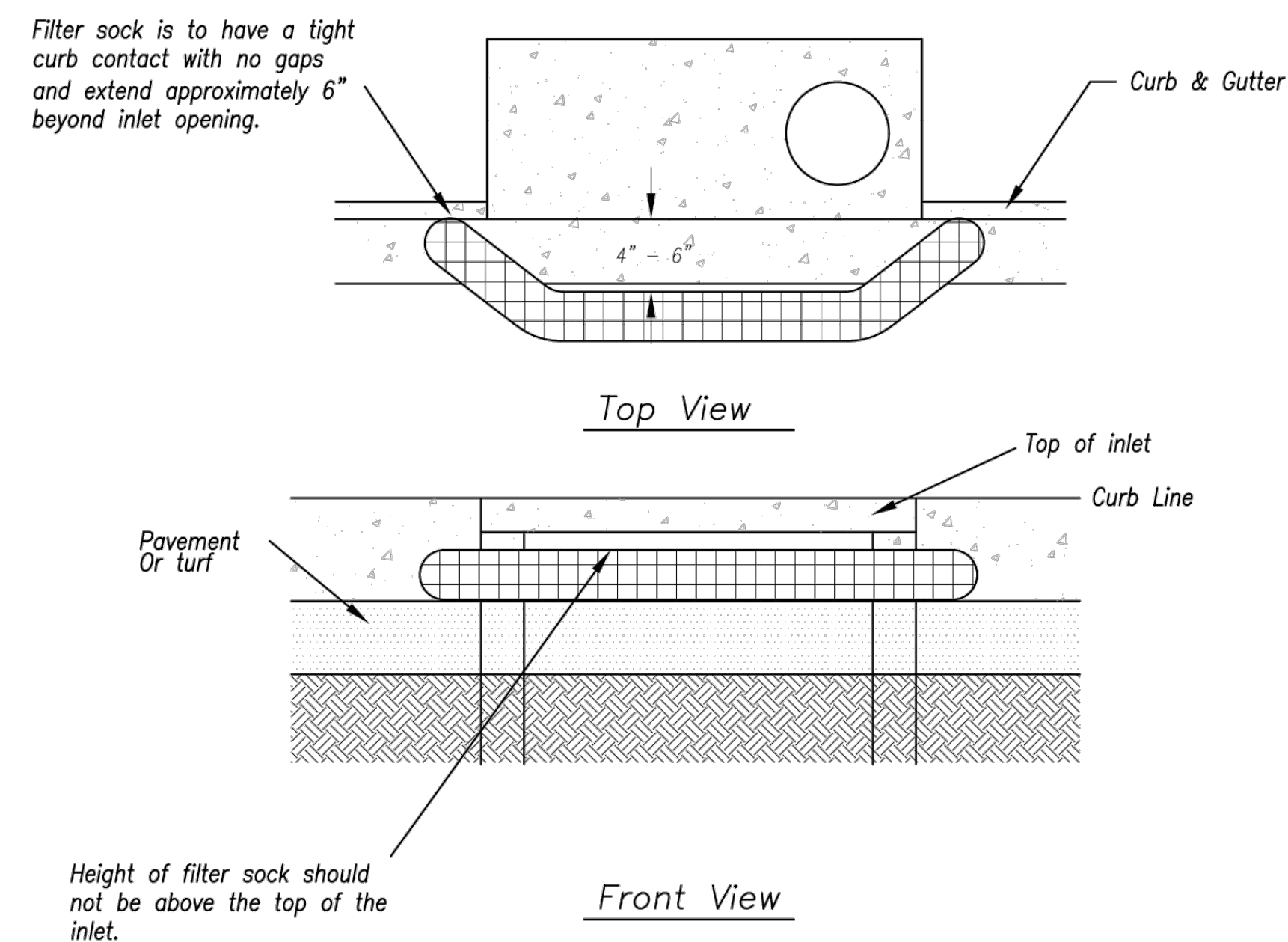
1. Immediately following inlet construction and prior to construction of curb and inlet throat, protect inlet opening by installing 2" X 10" (min.) board wrapped in silt fence. Structures shall have excavated storage area on all four sides to allow settling of sediment (Early Stage Curb Inlet).
2. When 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.



On Grade Curb Inlet Protection



Sump Inlet Sediment Filter

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

AS-BUILT

AMERICAN PUBLIC WORKS ASSOCIATION



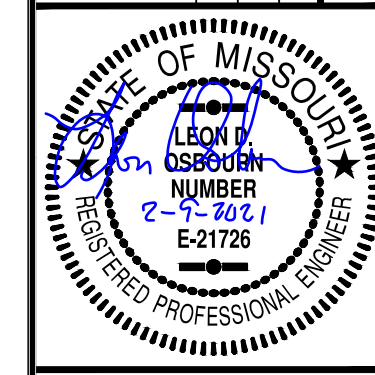
KANSAS CITY  
METRO CHAPTER

CURB INLET PROTECTION

STANDARD DRAWING  
NUMBER ESC-06  
ADOPTED:  
10/24/2016

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

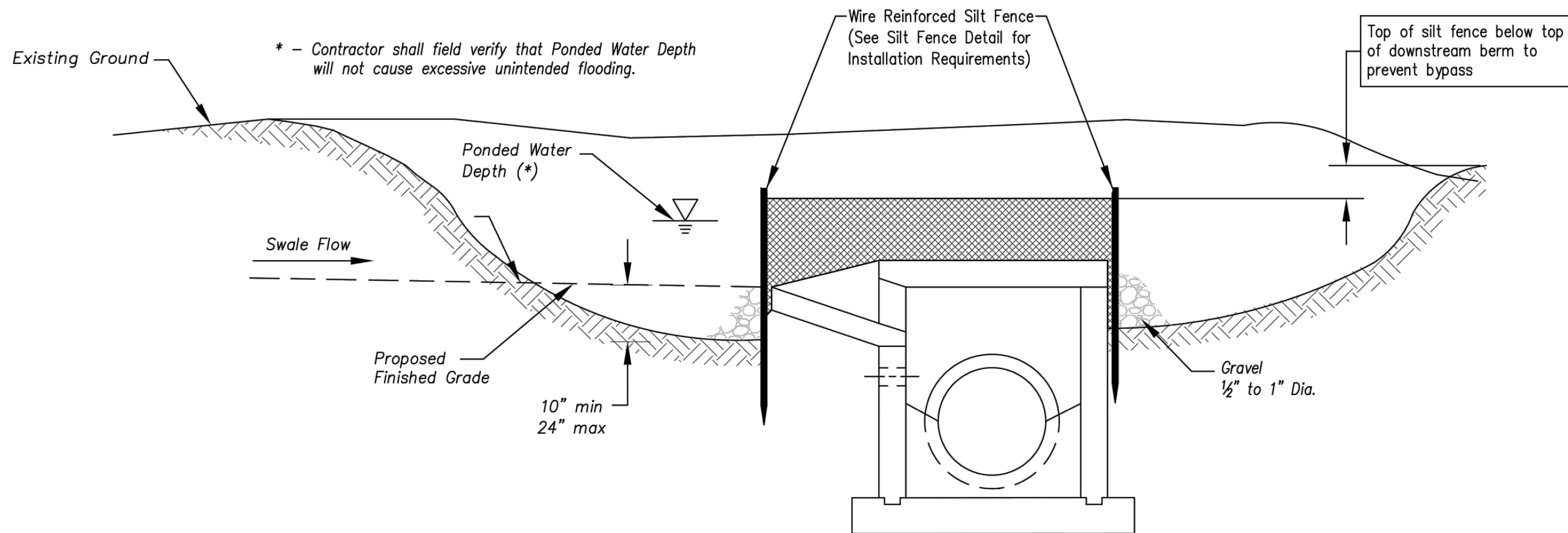
PROJ. NO.	A14-7067-1
DESIGNER	LDO
DRAWN BY	JT/BKR
CFN	7067-1S_DET
SHEET	C-14
REV	4



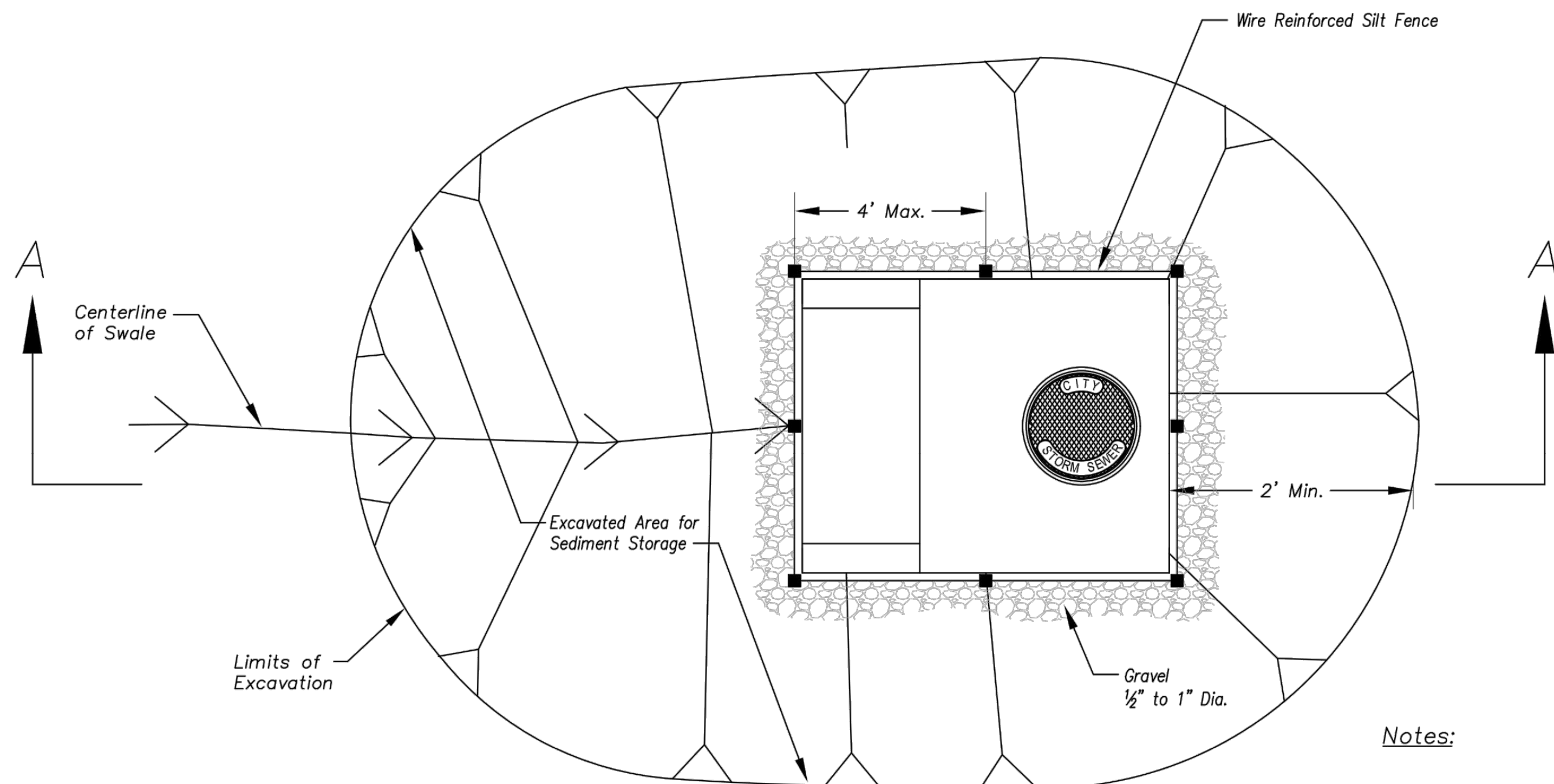
LEON D. OSBOURN  
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MO # 021726

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EXPIRES 12/31/19





Section A-A  
Not to Scale

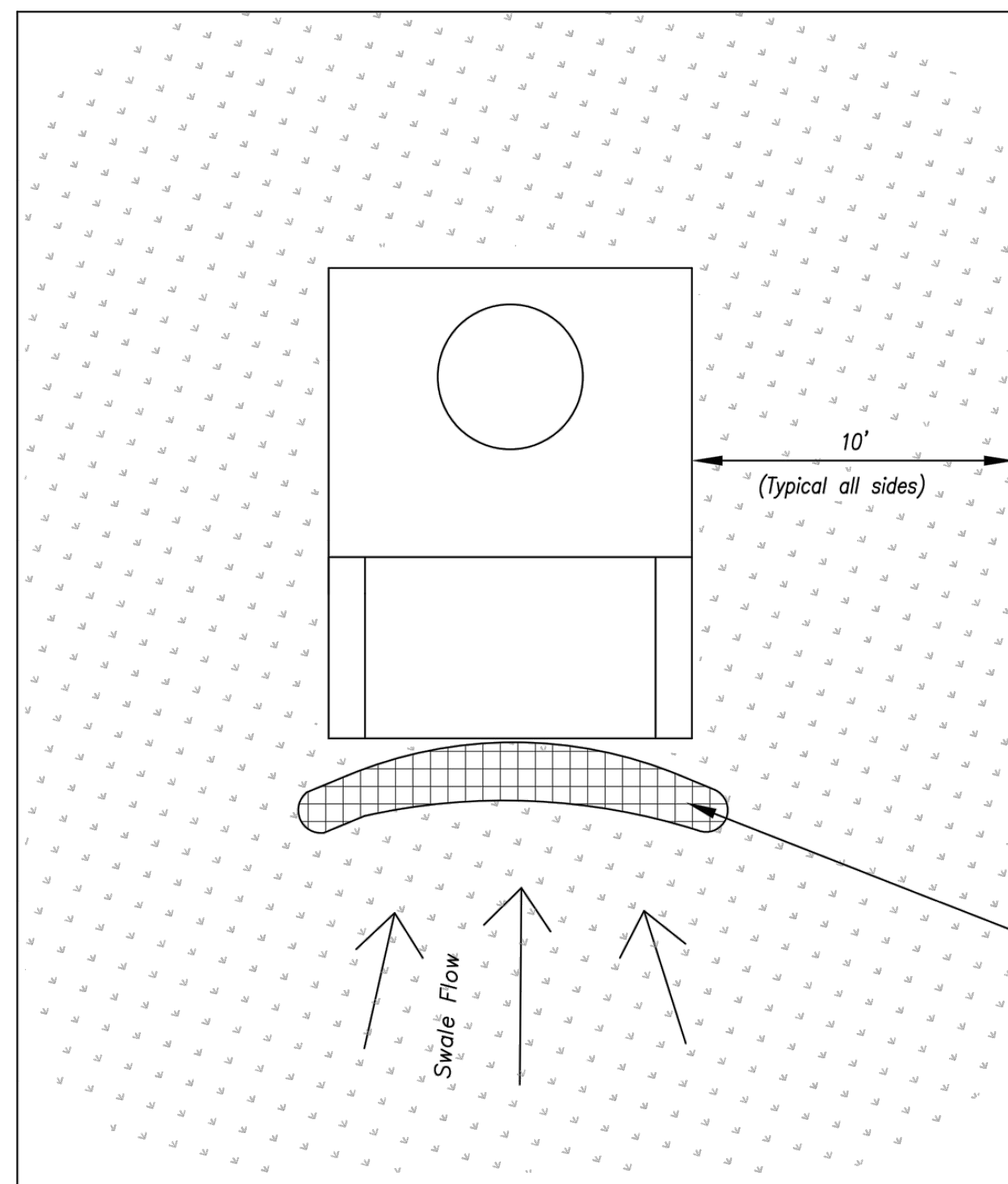


Plan  
Not to Scale

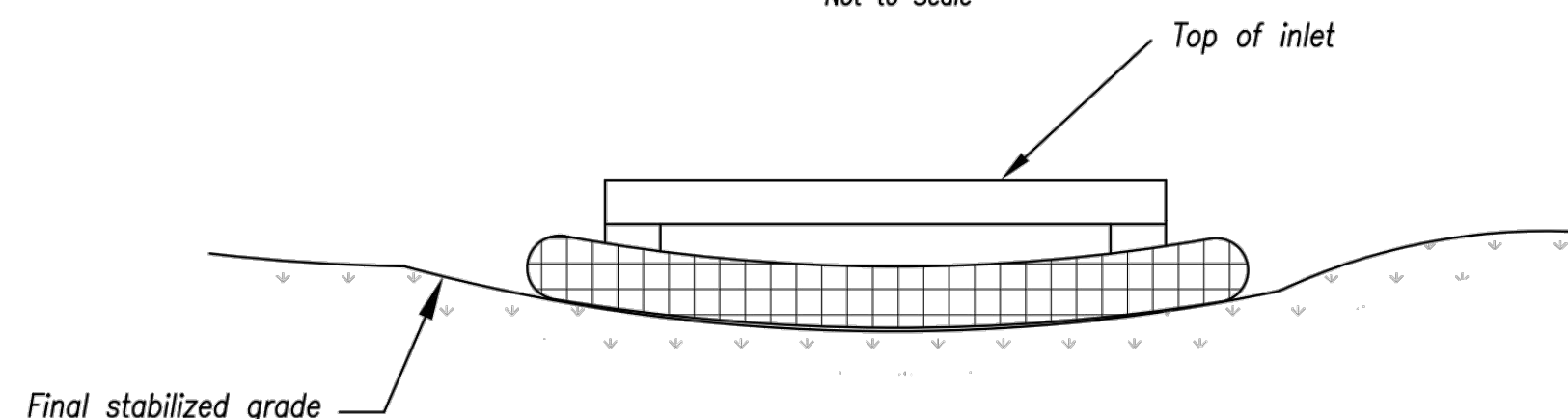
**EARLY STAGE AREA INLET**  
(All open boxes and inlets not at final grade)

**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**



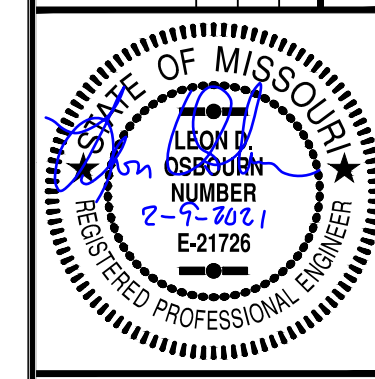
KANSAS CITY  
METRO CHAPTER

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  
LEE'S 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

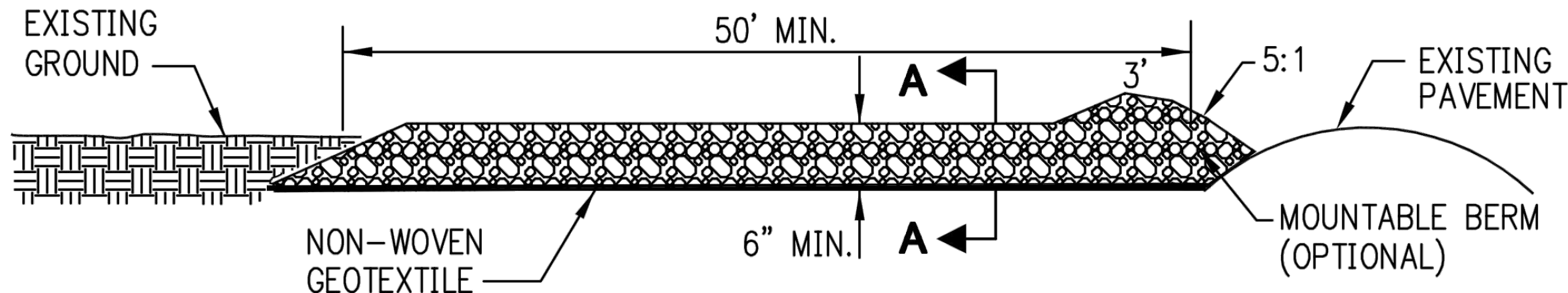


LEON D. OSBOURN  
ENGINEER  
MO # 021726

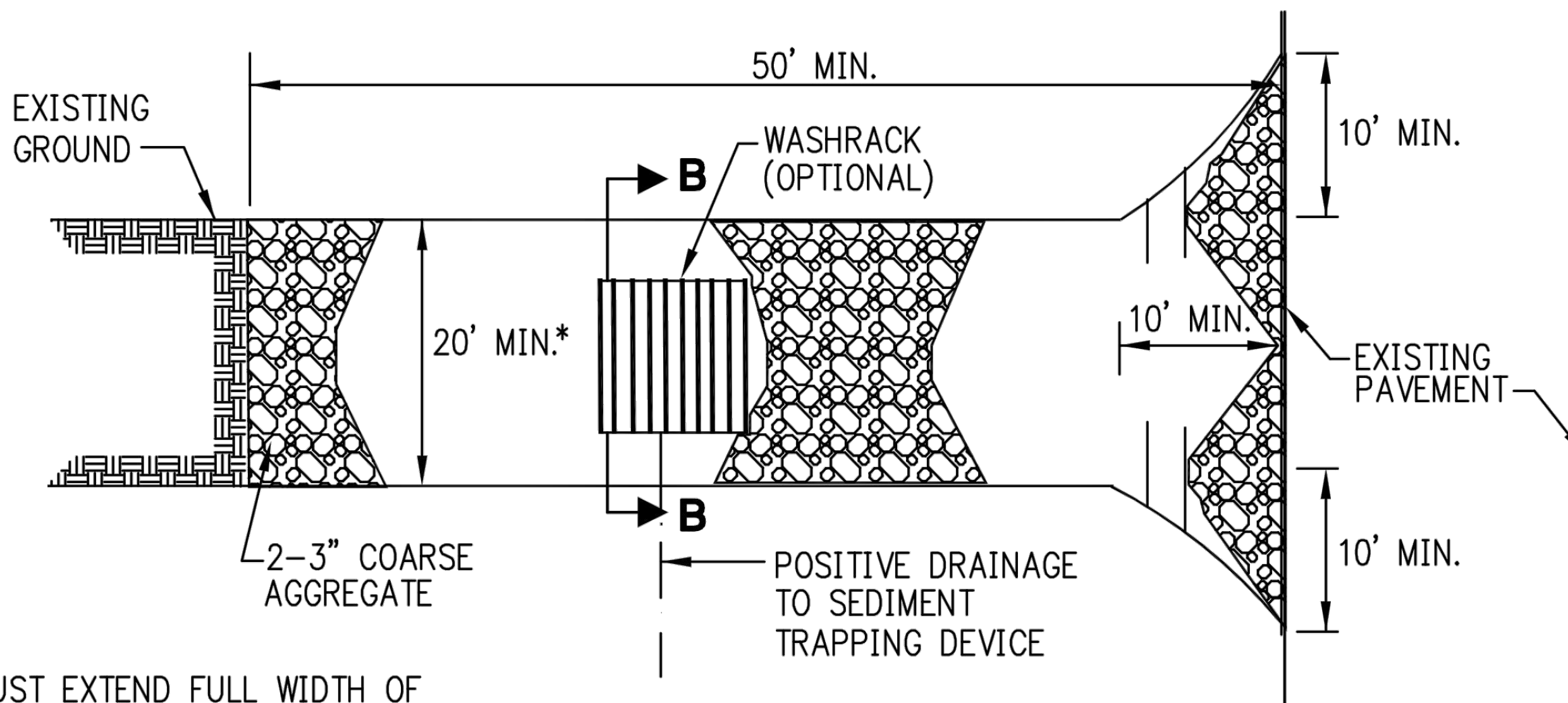
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EXPIRES 12/31/19



# TEMPORARY CONSTRUCTION ENTRANCE

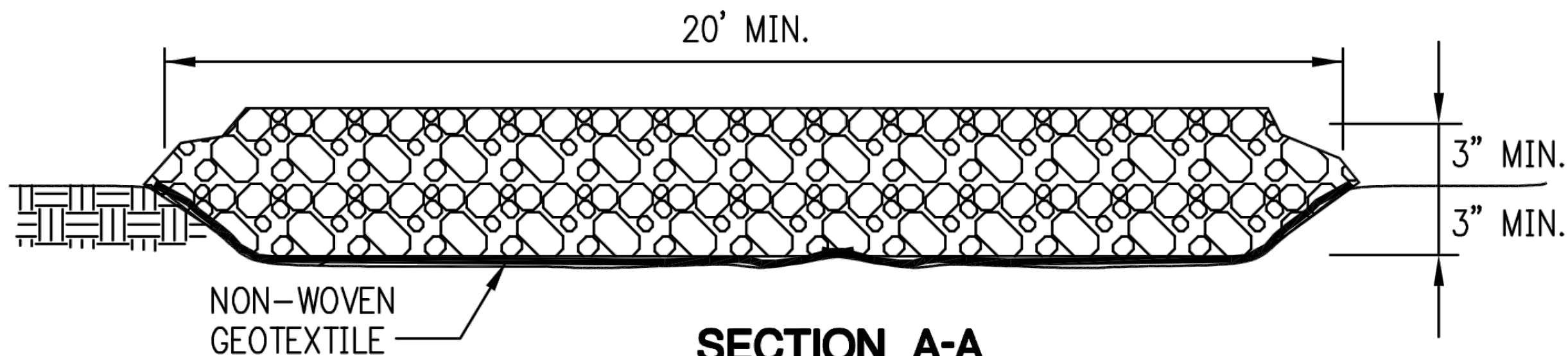


**SIDE ELEVATION**  
NOT TO SCALE

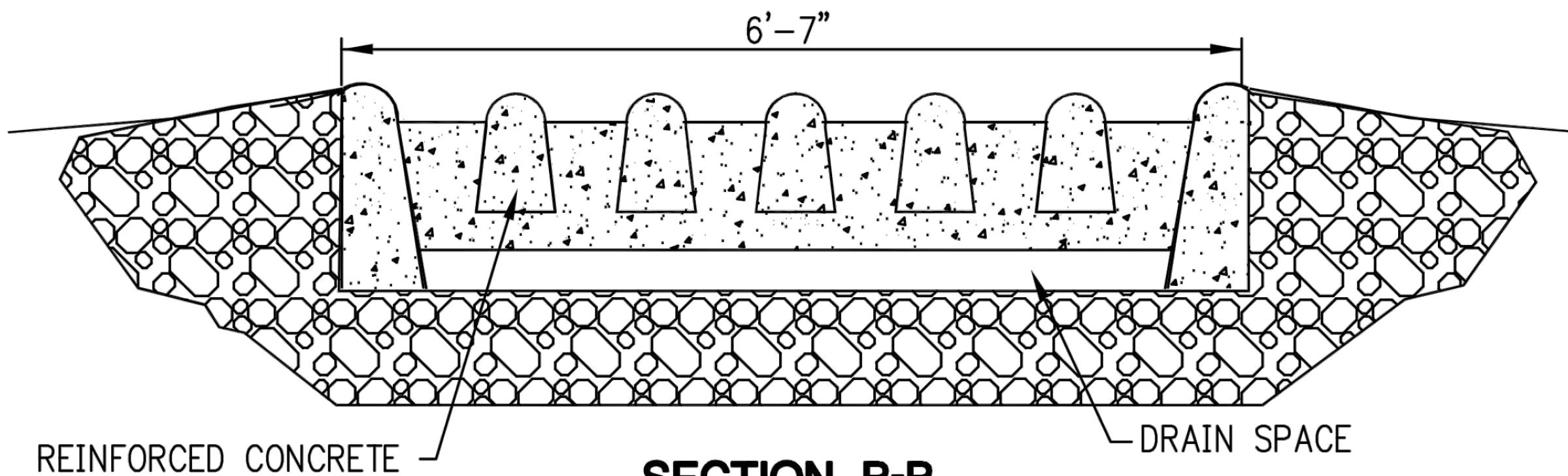


\* MUST EXTEND FULL WIDTH OF  
INGRESS AND EGRESS OPERATION

**PLAN VIEW**  
NOT TO SCALE



**SECTION A-A**  
NOT TO SCALE



**SECTION B-B**  
NOT TO SCALE

SOURCE: MODIFIED FROM VA. DCR, 1992

**TEMPORARY CONSTRCUTION ENTRANCE PAD NOTES:**

### A) INSTALLATION:

1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS. IF POSSIBLE, LOCATE WHERE PERMANENT ROADS WILL EVENTUALLY BE CONSTRUCTED.
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 3H:1V SIDE SLOPES ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE EDGE OF THE PUBLIC ROAD TO DIVERT RUNOFF AWAY 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 SMOOTH AND SLOPED FOR DRAINAGE.
6. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE.
7. IF WET CONDITIONS ARE ANTICIPATED, PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY.

## B) TROUBLESHOOTING:

1. CONSULT WITH A QUALIFIED DESIGN PROFESSIONAL IF ANY OF THE FOLLOWING OCCUR:
  - a. INADEQUATE RUNOFF CONTROL TO THE EXTENT THAT SEDIMENT WASHES ONTO PUBLIC ROAD – INSTALL DIVERSIONS OR OTHER RUNOFF CONTROL MEASURES.
  - b. SMALL STONE, THIN PAD, OR ABSENCE OF GEOTEXTILE FABRIC RESULTS IN RUTS AND MUDDY CONDITIONS AS STONE IS PRESSED INTO SOIL – INCREASE STONE SIZE OR PAD THICKNESS OR ADD GEOTEXTILE FABRIC.
  - c. PAD TOO SHORT FOR HEAVY CONSTRUCTION TRAFFIC – EXTEND PAD BEYOND THE MINIMUM 50-FOOT LENGTH AS NECESSARY.

### **C) INSPECTION AND MAINTENANCE:**

1. INSPECT STONE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER 1/2-INCH OR GREATER STORM EVENTS.
2. RESHAPE PAD AS NEEDED FOR PROPER DRAINAGE AND RUNOFF CONTROL.
3. TOPDRESS WITH CLEAN 2-AND 3-INCH STONE AS NEEDED.
4. IMMEDIATELY REMOVE MUD OR SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROAD. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY.
5. REMOVE ALL TEMPORARY ROAD MATERIALS FROM AREAS WHERE PERMANENT VEGETATION WILL BE ESTABLISHED.

**AMERICAN PUBLIC WORKS ASSOCIATION**



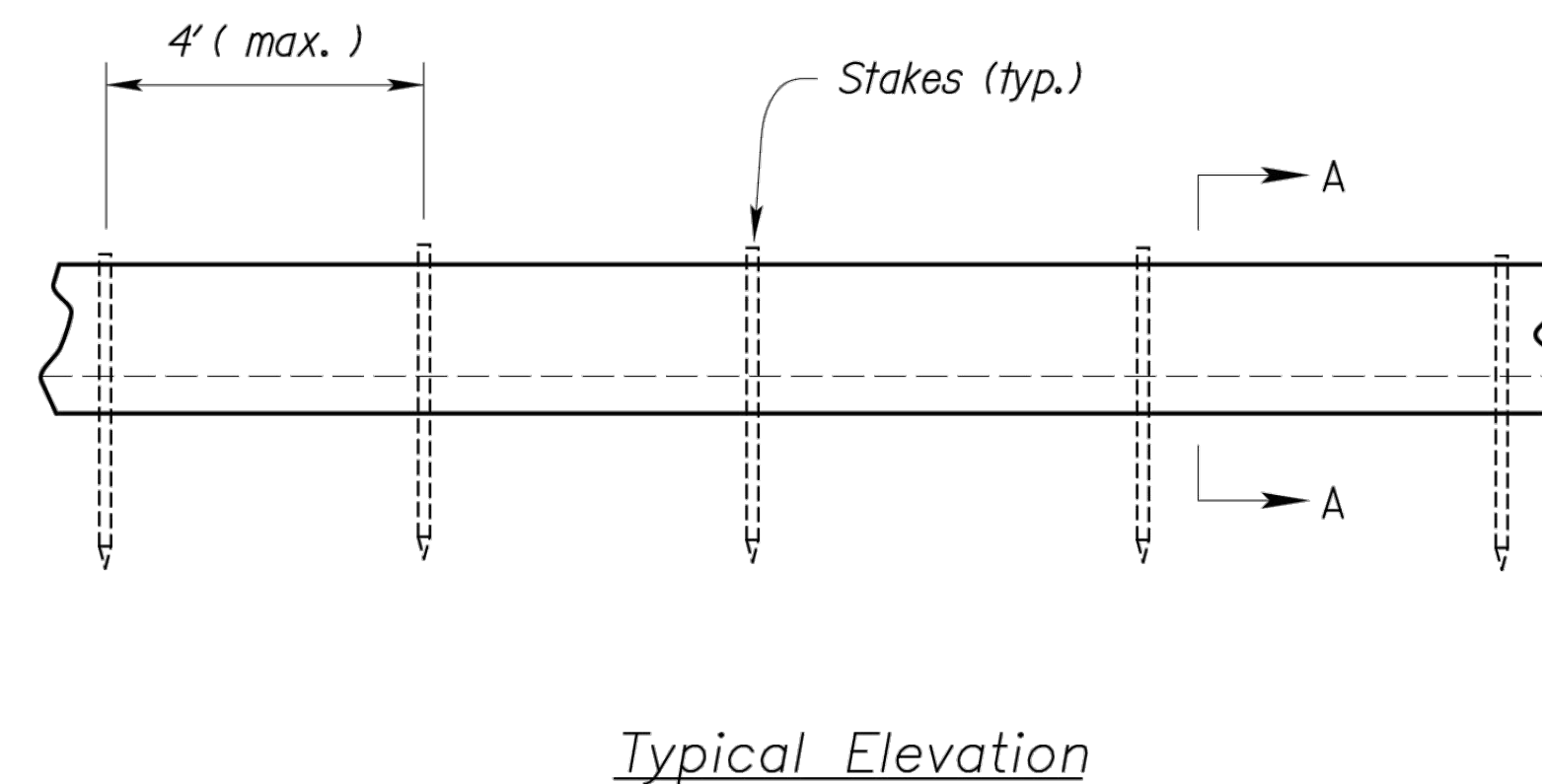
KANSAS CITY  
METROPOLITAN CHAPTER

TEMPORARY CONSTRUCTION  
ENTRANCE

STANDARD DRAWING NUMBER	ESC-01
ADOPTED:	

AS-BUILT





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".

Figure 2  
(Steep Slopes)

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".

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

AS-BUILT 4

<b>STREETS OF WEST PRYOR</b>											
<b>NWQ NW PRYOR ROAD &amp; NW LOWENSTEIN DRIVE</b>											
<b>LEE'S SUMMIT, MISSOURI</b>											
<b>SANITARY SEWER PLANS</b>											
<b>DETAIL SHEET</b>											
PRJ. NO.						A14_7067-1					
DESIGNER LDO			DRAWN BY JT/BKR								
CFN 7067-IS_DET											
SHEET			REV								
C-17						4					