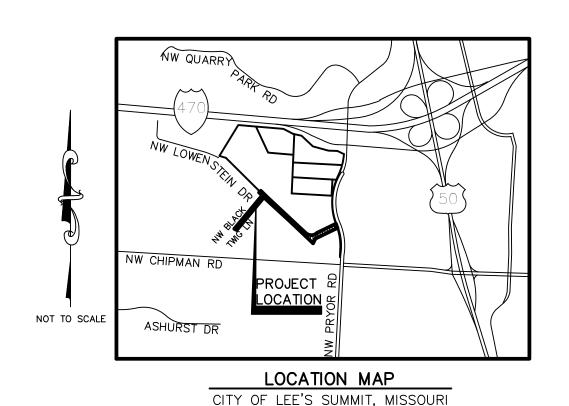
CONSTRUCTION PLANS NW LOWENSTEIN DRIVE & NW BLACK TWIG LANE WATER LINE REPLACEMENT STREETS OF WEST PRYOR

SECTION CORNER, ORIGIN UNKNOWN UNLESS RIGHT-OF-WAY MARKER FOUND TELEPHONE MANHOLE TELEPHONE PEDESTAL (M) MEASURED ------ T ------ UNDERGROUND TELEPHONE LINE (C) CALCULATED (P) PLATTED FOC FIBER OPTIC CABLE SIGN STREET SIGN ____ FOC _____ UNDERGROUND FIBER OPTIC CABLE TRAFFIC CONTROL POLE ── UTILITY POLE P PULL BOX o FLAG POLE O MAILBOX ADA HANDICAP SIGN HANDICAP PAINTED SYMBOI LEFT TURN ARROW → STRAIGHT ARROW AIR CONDITIONING UNIT RIGHT TURN ARROW E ELECTRIC METER ----- WOOD FENCE BREAKER BOX ----- CHAIN LINK FENCE UNDERGROUND ELECTRIC LINE BARBED WIRE FENCE UTILITY MANHOLE DECIDUOUS TREE W/SIZE & DRIP LINE CTV CABLE TV SIGN CP CABLE TV PEDESTAL EVERGREEN TREE W/SIZE & DRIP LINE SAPPLING TREE GAS SIGN G GAS METER SHRUB UNDERGROUND GAS LINE P STUMP GAS CATHODIC PROTECTION STATION TREE LINE SHRUB LINE (10) PARKING STALL COUNT WATER LINE GATE VALVE ____ 970 ___ 1' CONTOUR INTERVAL WATER SPIGOT WATER METER | RESTRICTED ACCESS B/B BACK OF CURB TO BACK OF CURB FIRE HYDRANT E/E EDGE TO EDGE

LEE'S SUMMIT, MISSOURI

JANUARY 2019



INDEX TO SHEETS

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UTILITY STATEMENT:

HE 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

CAUTION - NOTICE TO CONTRACTOR

SPRINKLER VALVE

—— S ———— SANITARY SEWER LINE

SANITARY SEWER MANHOLE

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.

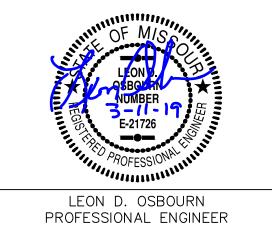
THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT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

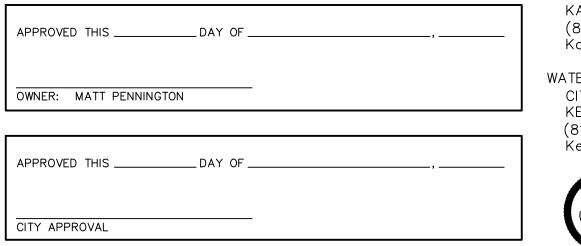
	<u>Water Main</u>					
Item No.	ltem	Estimated Quantity	Unit			
1	Connect to Existing Water Main	4	Ea.			
2	6" Fire Line Main	208	L.F.			
3	6" Water Main	41	L.F.			
4	8" Water Main	445	L.F.			
5	12" Water Main	1808	L.F.			
6	1" Copper Water Service Line	164	L.F.			
7	Fire Hydrant with 6" Valve	4	Ea.			
8	Temporary Fire Hydrant	1	Ea.			
9	Temporary Fire Hydrant with 8" Valve	3	Ea.			
10	6" Gate Valve	1	Ea.			
11	8" Gate Valve	6	Ea.			
12	12" Butterfly Valve	6	Ea.			
13	12"x8"x8" Tee	2	Ea.			
14	12"x12"x8" Tee	2	Ea.			
15	12"x12"x6" Tee	2	Ea.			
16	Air Release Valve	1	Ea.			
	Erosion Contro	ol				
Item No.	ltem	Estimated Quantity	Unit			
		Estimated Quantity	L.F.			
1	Erosion Control Devices, Sedimentation Fence	2140	L.F.			

Erosion Control Devices, Curb Inlet Protection

Summary of Quantities

0.66





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

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

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

email: daveolson@monarchprojectllc.com

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

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

WATER, SANITARY/STORM SEWER SERVICE CITY OF LEE'S SUMMIT KENT MONTER (816) 969 1900 1 Kent.Monter@cityofls.net



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

MISSOURI ONE CALL SYSTEM, INC.

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

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

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

COMMUNICATION SERVICE

COMMUNICATION SERVICE

COMMUNICATION SERVICE

TIME WARNER CABLE

Steve.Baxter@charter.com

Ryan.Alkire@cable.comcast.com

KC-Google-UC@google.com

rebeccadavis@google.com

CARRIE CILKE

(816) 703-4386 cc3527@att.com

STEVE BAXTER

COMCAST

RYAN ALKIRE

GOOGLE FIBER

BECKY DAVIS

(913) 725-8745

(816) 795-2218

COMMUNICATION SERVICE

(913) 643-1928

AT&T

2 36 10 BEWSER BEB CITY COMMENTS	1-4-19 INITIAL ISSUE	REV DATE DESCRIPTION	
	1-4-19	DATE	
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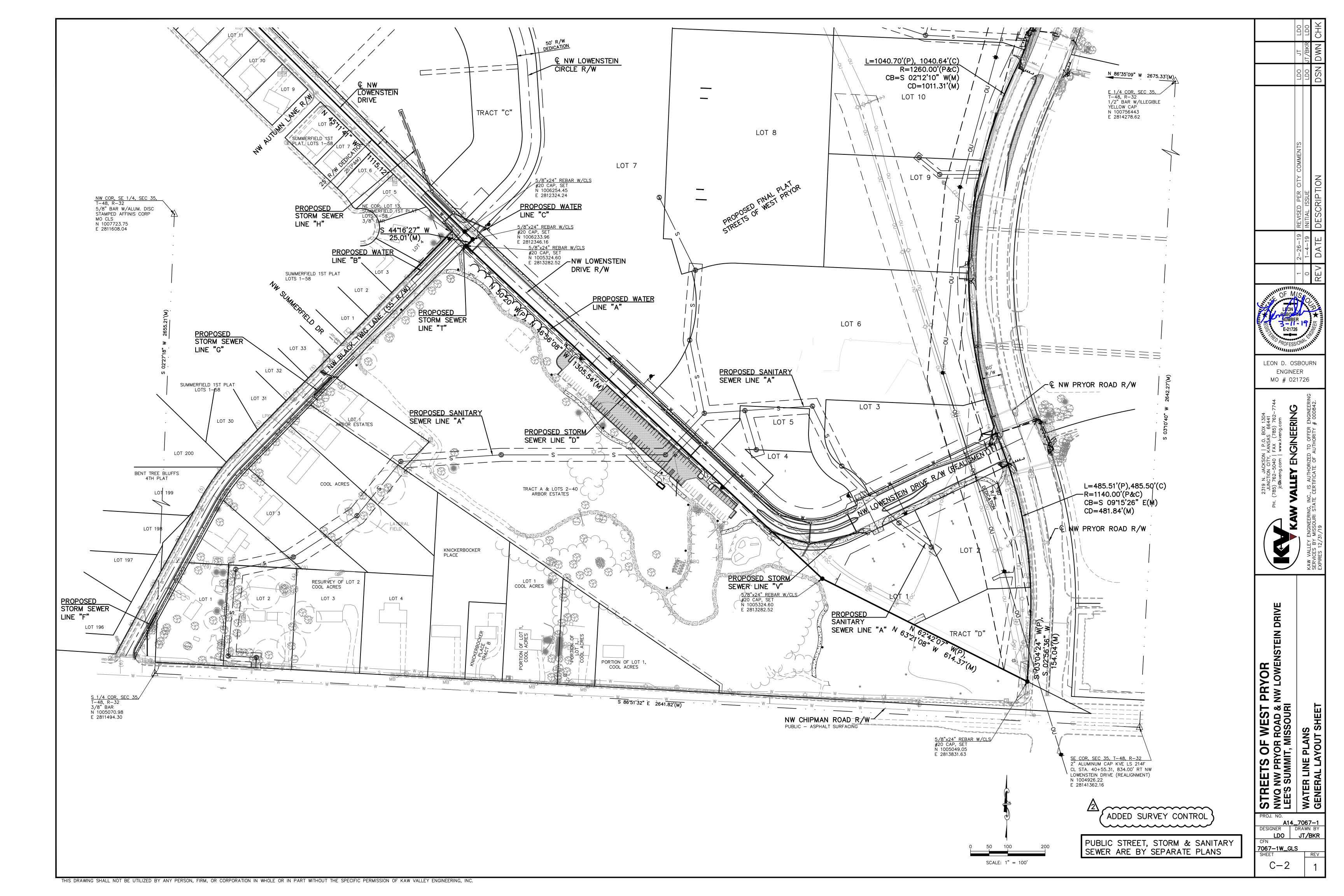
ENGINEER MO # 021726

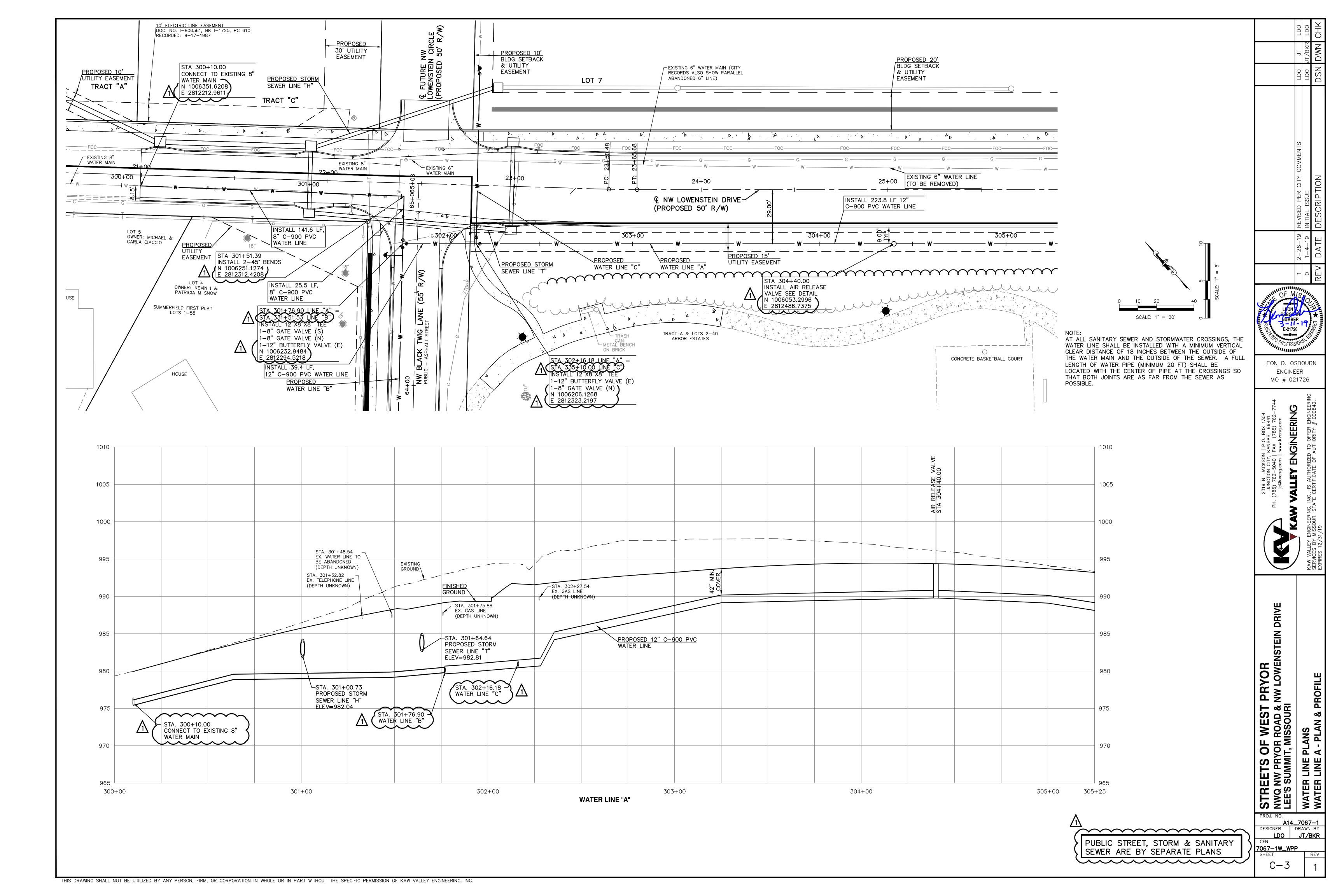
LEON D. OSBOURN

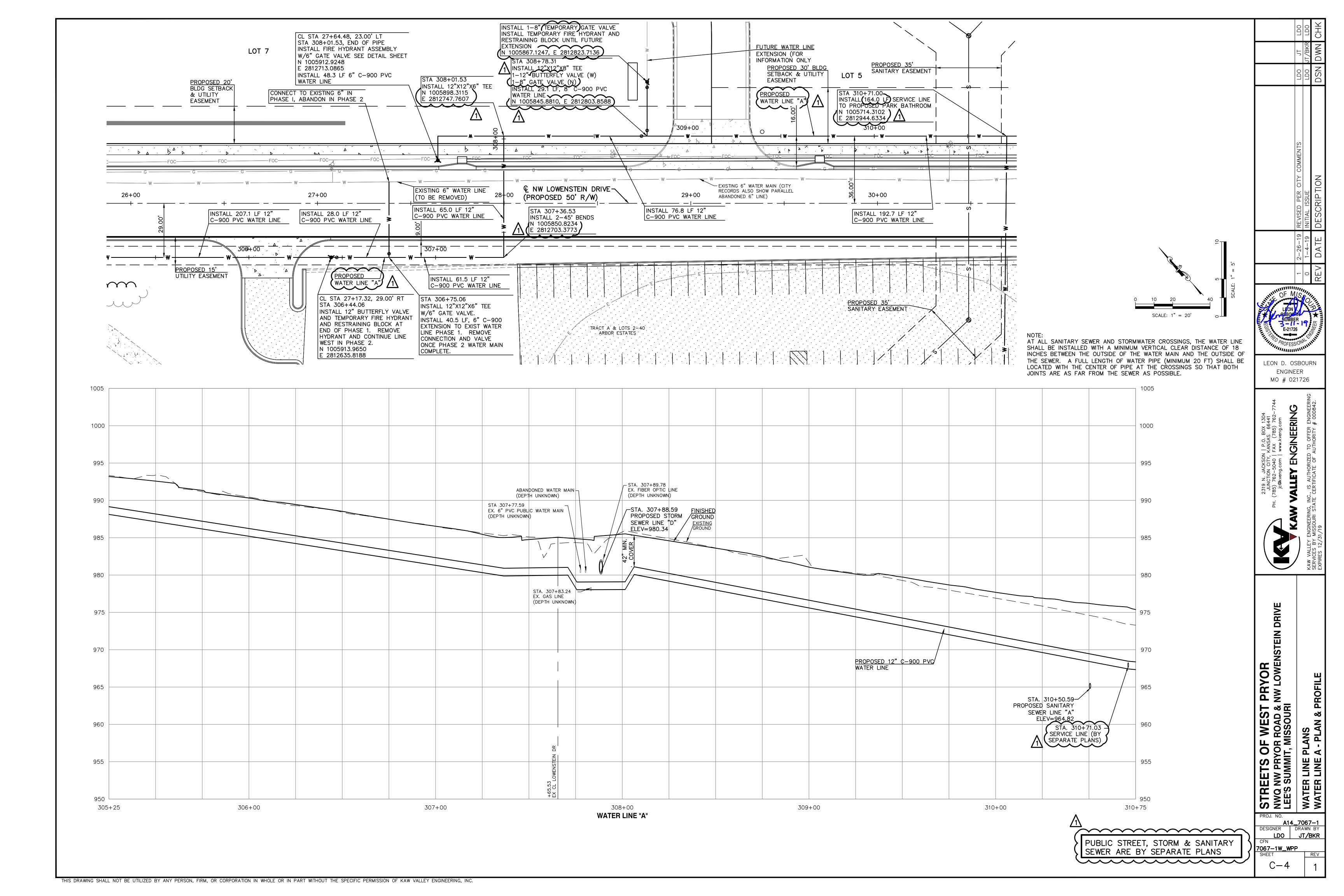
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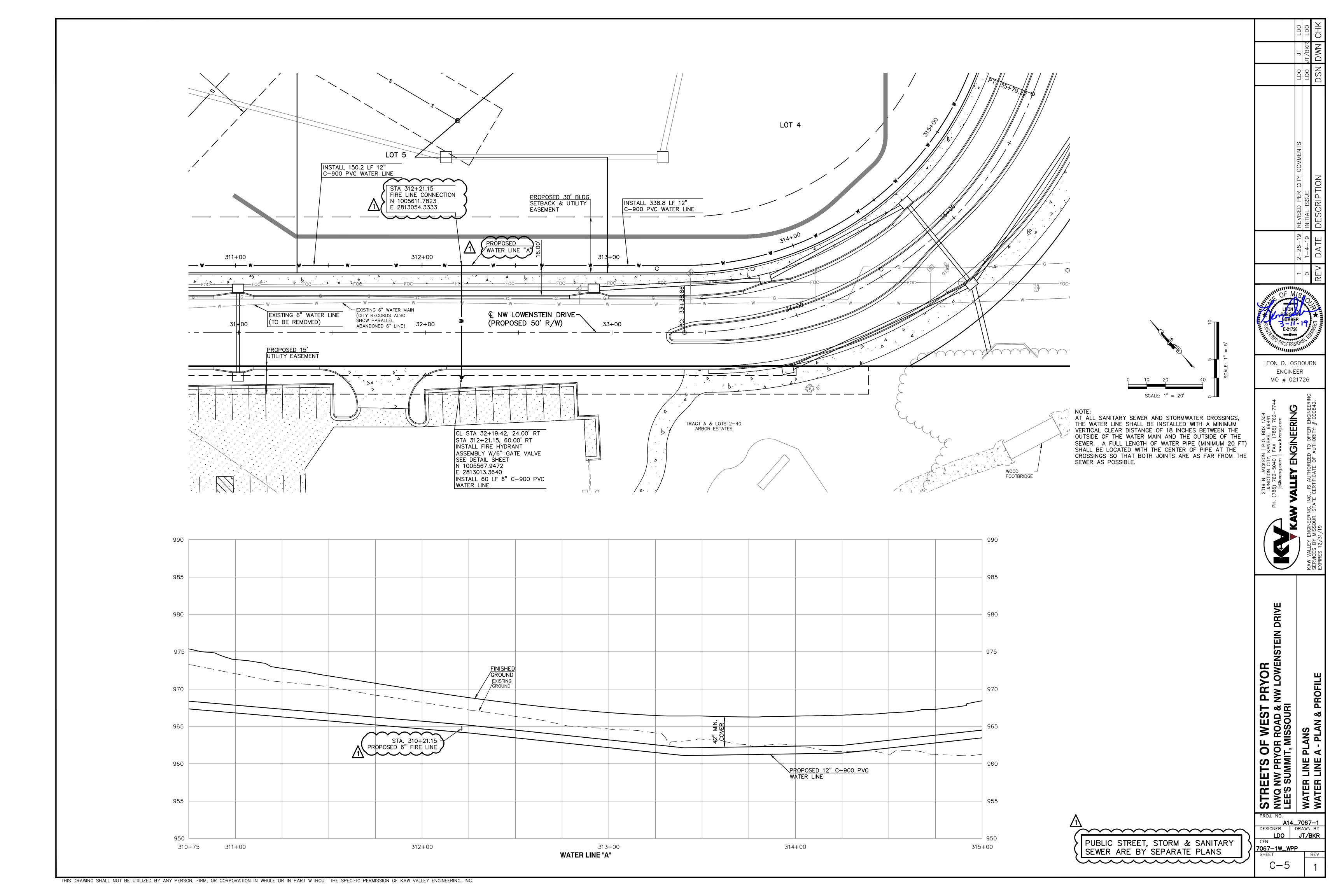
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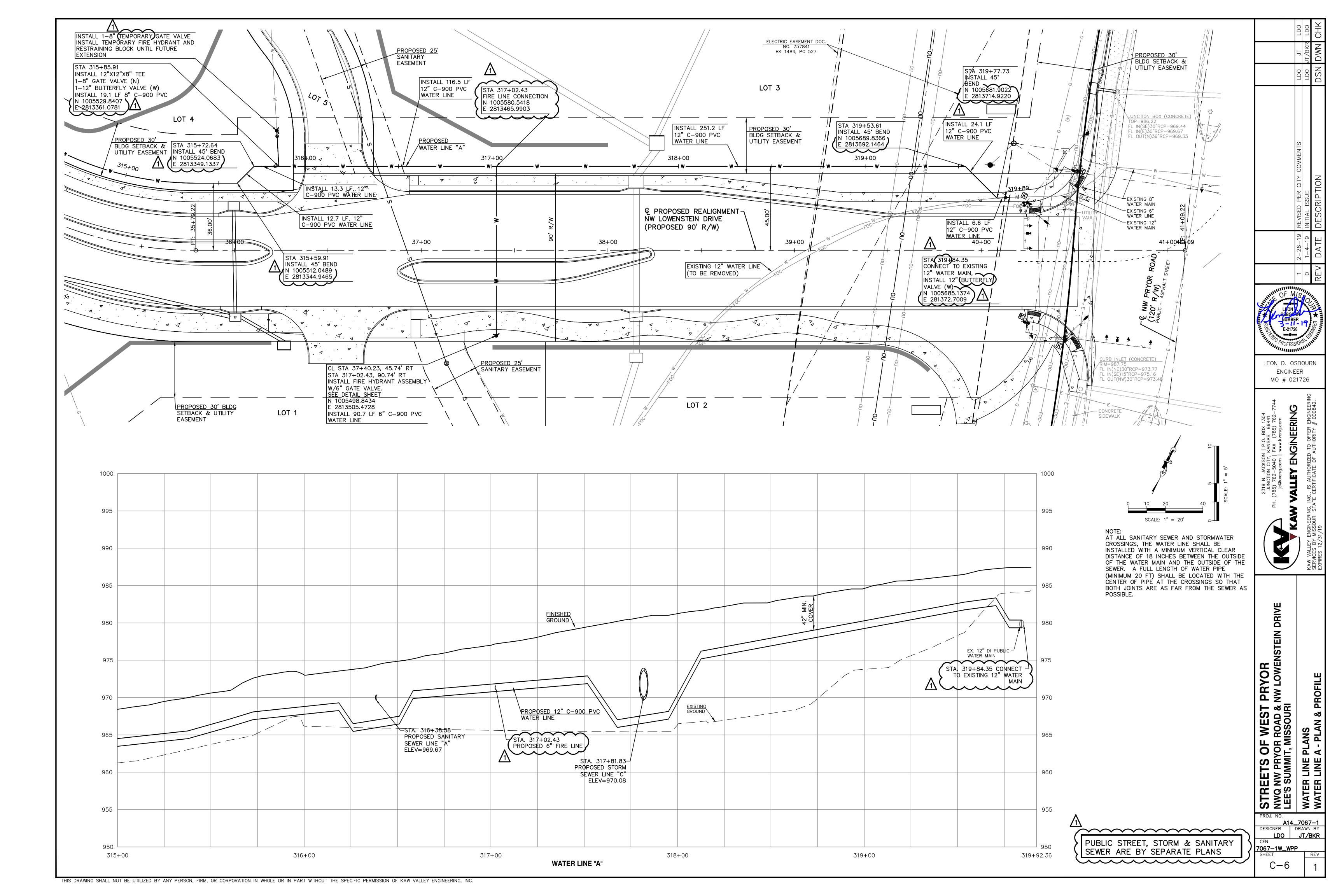
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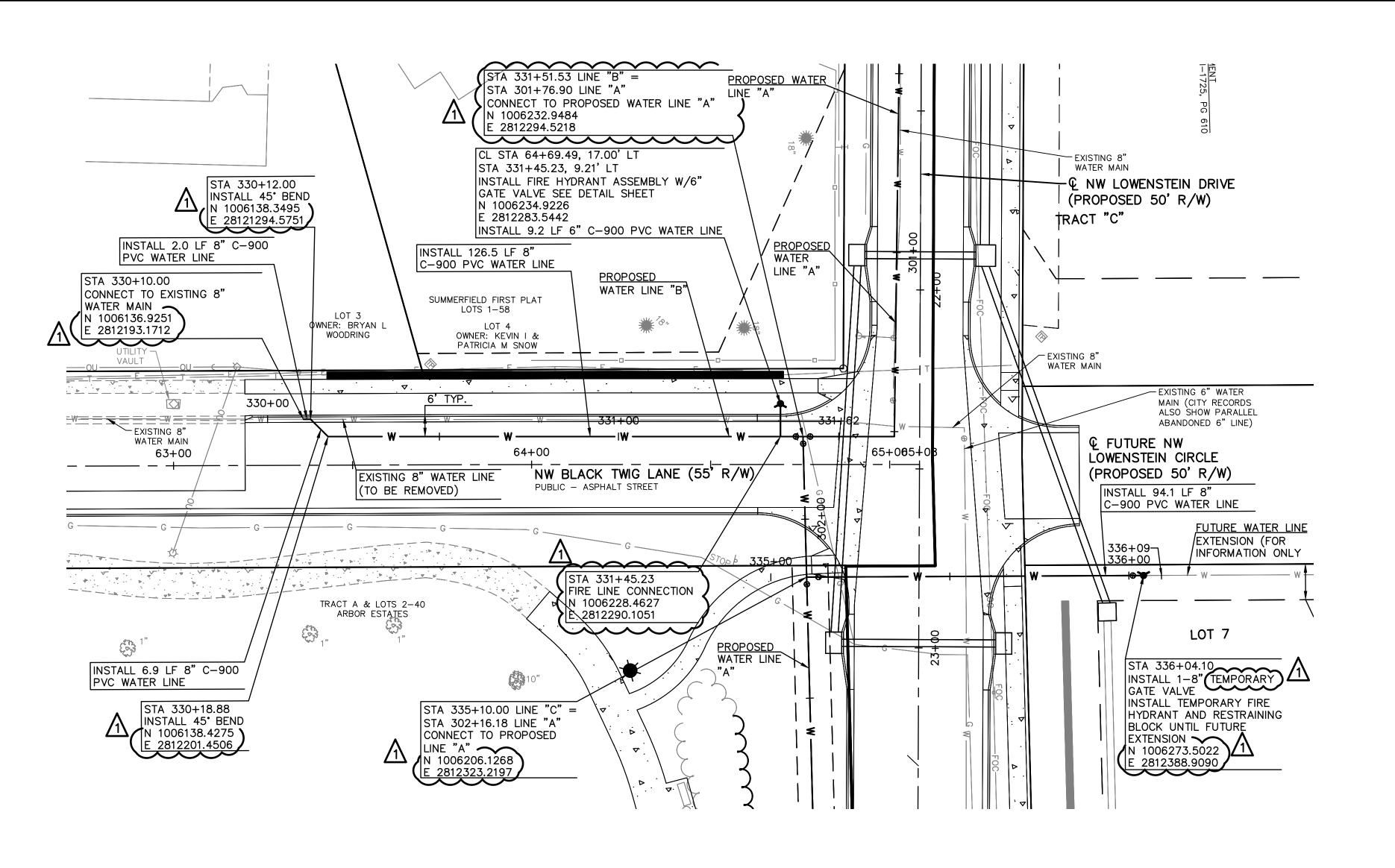


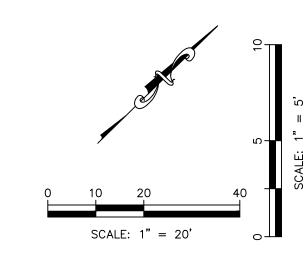




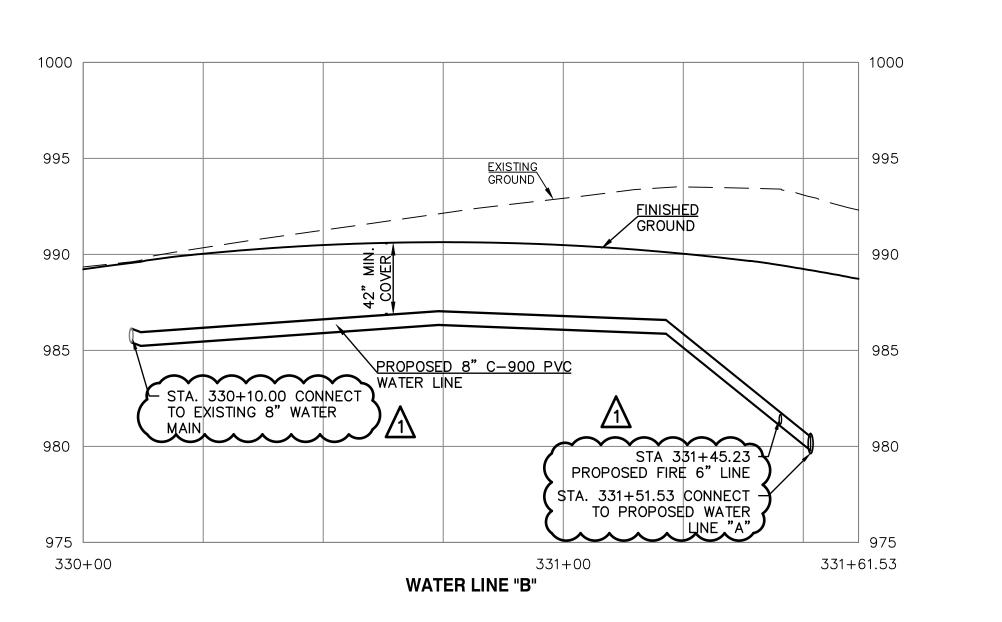


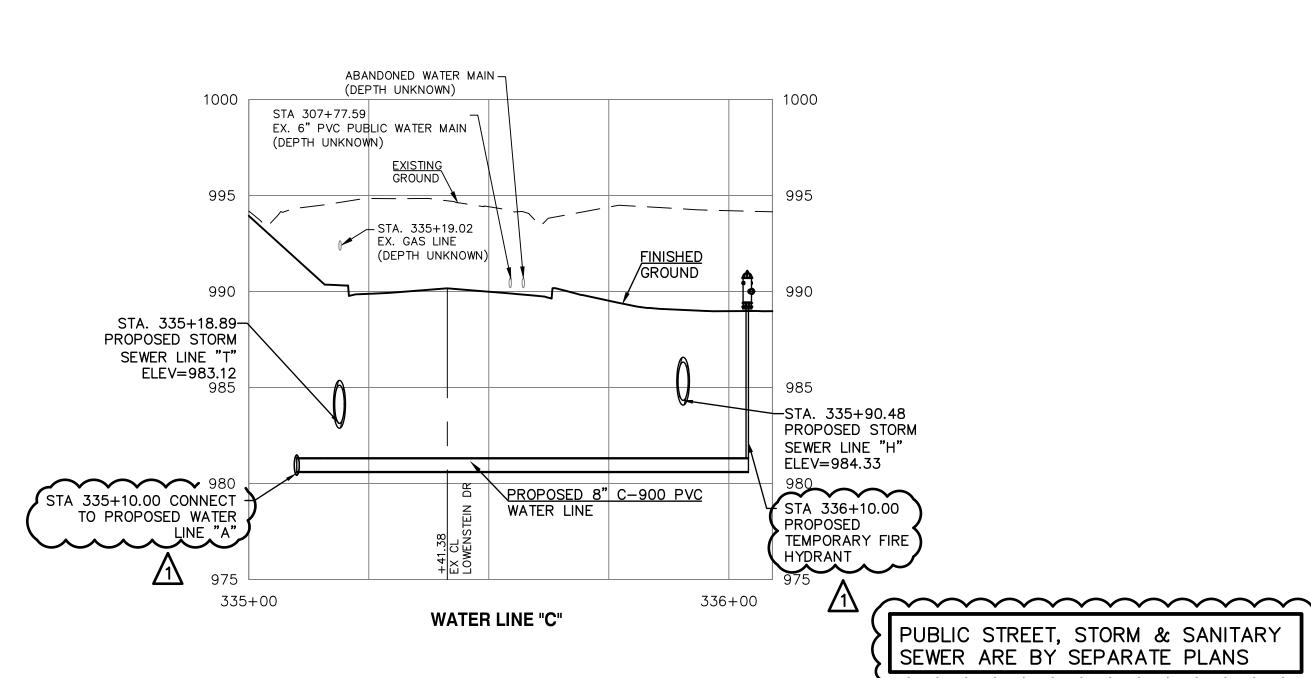






NOTE:
AT ALL SANITARY SEWER AND STORMWATER CROSSINGS, THE WATER LINE SHALL BE INSTALLED WITH A MINIMUM VERTICAL CLEAR DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. A FULL LENGTH OF WATER PIPE (MINIMUM 20 FT) SHALL BE LOCATED WITH THE CENTER OF PIPE AT THE CROSSINGS SO THAT BOTH JOINTS ARE AS FAR FROM THE SEWER AS POSSIBLE.





STREETS OF WEST PRYOR

NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE

LEE'S SUMMIT, MISSOURI

WATER LINE PLANS

WATER LINE B & C - PLAN & PROFILE

LDO JT/BKR

7067-1W_WPP

LEON D. OSBOURN

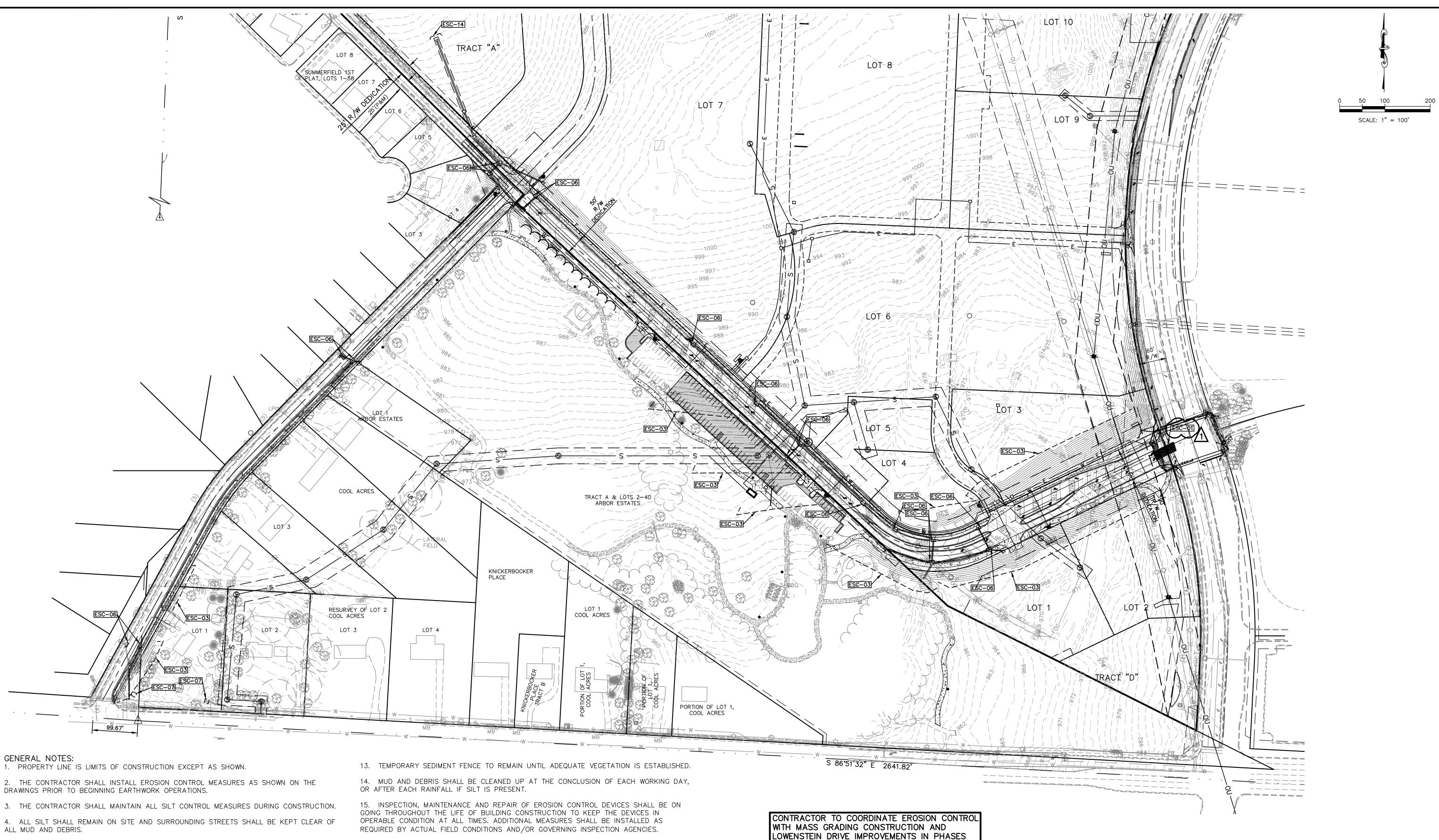
ENGINEER

MO # 021726

ENGINEERING

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- 5. A SEDIMENTATION BARRIER IS TO BE INSTALLED AS SHOWN.
- 6. ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE SEDIMENTATION BARRIERS MAINTAINED AS NEEDED TO PREVENT SEDIMENTATION BYPASS OF THE BARRIER.
- 7. SLOPES ARE TO BE LEFT IN A ROUGH CONDITION DURING GRADING.
- 8. 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.
- 9. SEDIMENT IS TO BE REMOVED FROM STORM WATER DRAINAGE SYSTEMS.
- 10. RIPRAP IS TO BE INSTALLED AT AREAS OF CONCENTRATED FLOW (I.E. CULVERT OUTLETS).
- 11. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ANY ADDITIONAL EROSION CONTROL AS HE/SHE DEEMS NECESSARY.
- 12. 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.

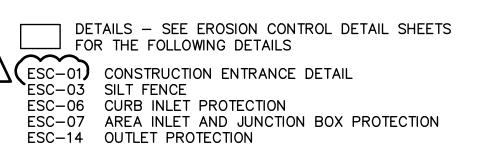
- 16. INSTALL CONSTRUCTION ENTRANCE AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING THE SITE AND AS SHOWN ON PLANS.
- 17. AT COMPLETION OF SITE GRADING AND OTHER RELATED CONSTRUCTION ACTIVITIES, ALL DISTURBED AREAS WITHIN THE PROJECT SITE SHALL BE SEEDED, SODDED, OR LANDSCAPED AS SHOWN ON THE LANDSCAPE PLAN WITHIN 14 DAYS.
- 18. TOPSOIL IS TO BE PLACED IN AREAS UNSUITABLE FOR VEGETATIVE GROWTH.
- 19. STRIP TOPSOIL PRIOR TO EXCAVATION, STOCKPILE AND SPREAD ONTO DISKED SUBGRADE (4" MIN) A THICKNESS OF 4 INCHES.
- 20. ROCK LINING (RIPRAP) SHALL BE DURABLE STONE CONTAINING A COMBINED TOTAL OF NOT MORE THAN 10 PERCENT OF EARTH, SAND, SHALE AND NON-DURABLE ROCK. AT LEAST 60 PERCENT OF THE MASS SHALL BE OF PIECES HAVING A MINIMUM WEIGHT OF 150 POUNDS OR MORE PER CUBIC FOOT.
- 21. 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.
- 22. GOOD HOUSEKEEPING PRACTICES SHALL BE MAINTAINED ON SITE TO KEEP SOLID WASTE FROM ENTRY INTO WATERS.

23. 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.

- 24. RIGHT OF WAY TO BE STABILIZED AS REQUIRED BY APWA SECTION 2400.
- 25. EROSION CONTROL IS TO BE PLACED IN PHASING AS CONSTRUCTION PROGRESSES.

26. 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.

27. EROSION CONTROL SEDIMENT FENCE TO 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 WILL HAVE EROSION CONTROL SEDIMENT FENCE INSTALLED.



EROSION & PROPOSED IMPROVEMENTS LEGEND:

----970---- EXISTING GROUND CONTOUR (1' INTERVALS)

970 PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS)

SILT FENCE

PROJ. NO.

A14_7067-1

DESIGNER DRAWN BY

LDO JT/BKR

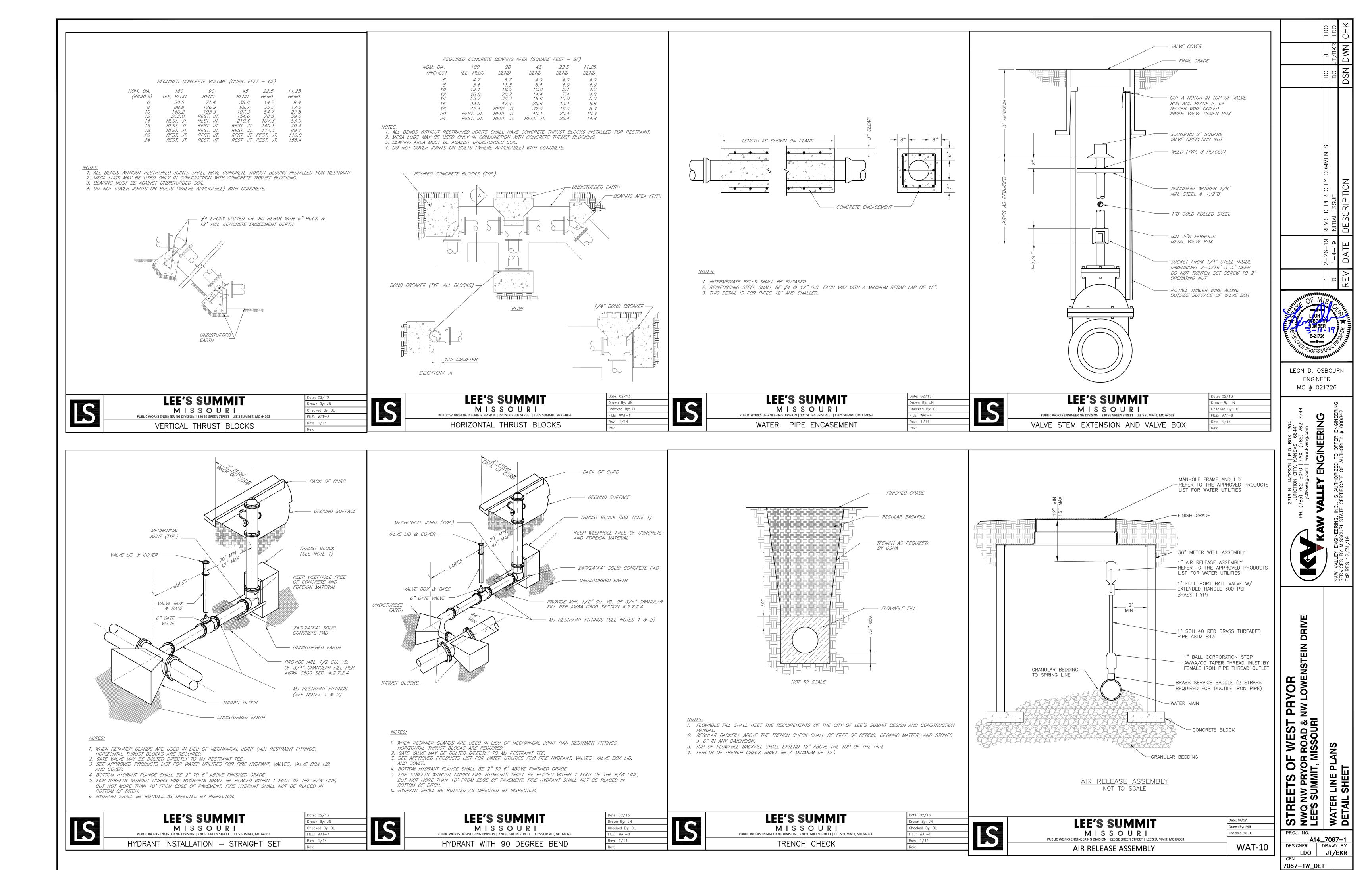
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SHEET REV

RETS OF NW PRYOF SUMMIT, I

LEON D. OSBOURN
ENGINEER
MO # 021726

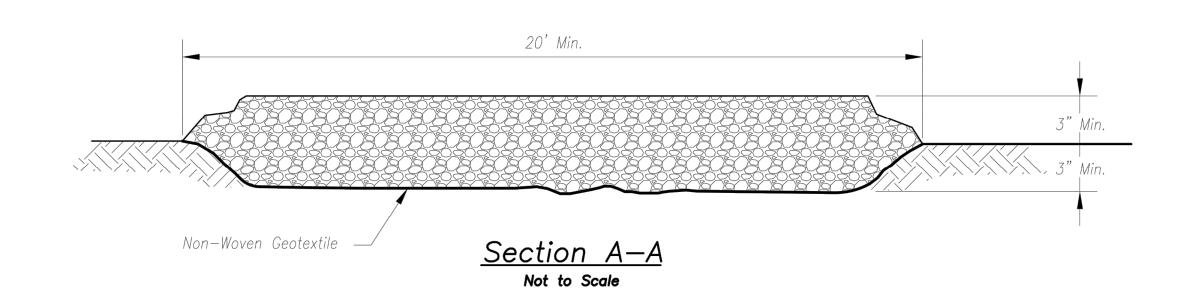


50' Min. Existing Ground — — Washrack / Rumble Strip (Optional) Existing Pavement 2-3" Coarse ——— Positive drainage Aggregate Sediment Trapping Device * - Must extend full width of ingress and egress operation

Plan View

Not to Scale

50' Min. Existing Ground — Existing Pavement – Mountable Berm (Optional) Non-Woven Geotextile Side Elevation



Notes for Construction Entrance:

- 1. Avoid locating on steep slopes, at curves on public roads, or downhill of disturbed area.
- 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 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. Reshape entrance as needed to maintain function and integrity of Installation. Top dress with clean aggregate as needed.

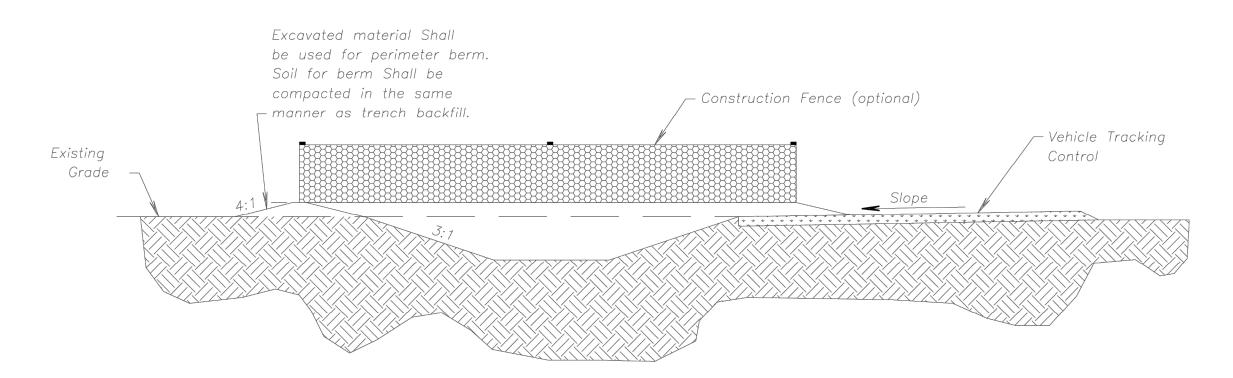
CONSTRUCTION ENTRANCE

Notes for Concrete Washout:

- 1. Concrete washout areas shall be installed prior to any concrete placement on site.
- 2. Concrete washout area shall include a flat subsurface pit sized relative to the amount of concrete to be placed on site. The slopes leading out of the subsurface pit shall be 3:1. The vehicle tracking pad shall be sloped towards the concrete washout area.
- 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-piece impervious liner may be required along the bottom and sides of the subsurface pit in sandy or gravelly soils.

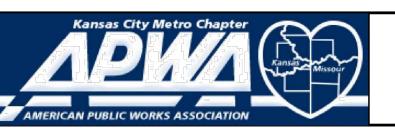
Maintenance for Concrete Washout:

- 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 wasted concrete.
- 3. Concrete washout water, wasted pieces of concrete and all other debris in the subsurface 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 topsoil, any disturbed areas associated with the installation, maintenance, and/or removal of the concrete washout areas shall be stabilized.



CONCRETE WASHOUT

AMERICAN PUBLIC WORKS ASSOCIATION



KANSAS CITY METRO CHAPTER

CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT

STANDARD DRAWING NUMBER ESC-OI ADOPTED:

10/24/2016

LDO JT/BKR 7067-1W_DET
SHEET

LEON D. OSBOURN

ENGINEER

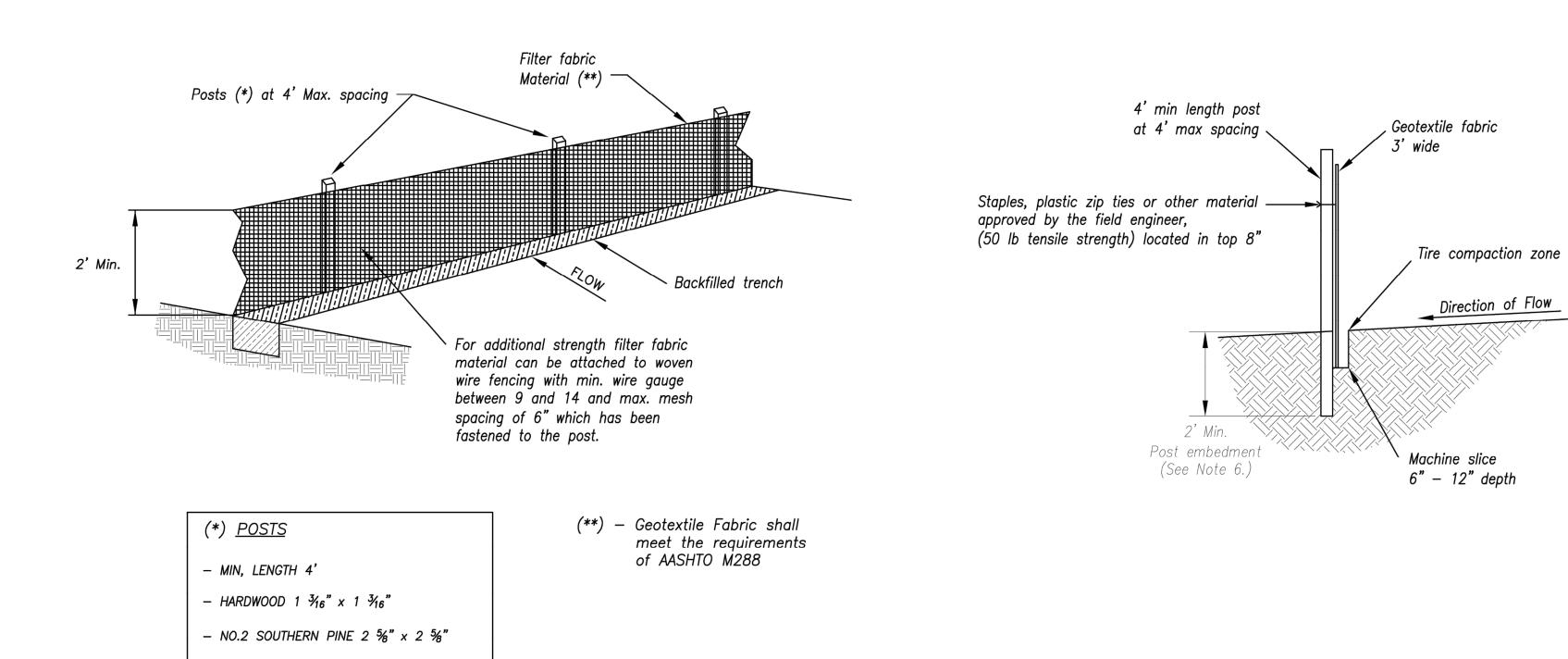
MO # 021726

DRIVE

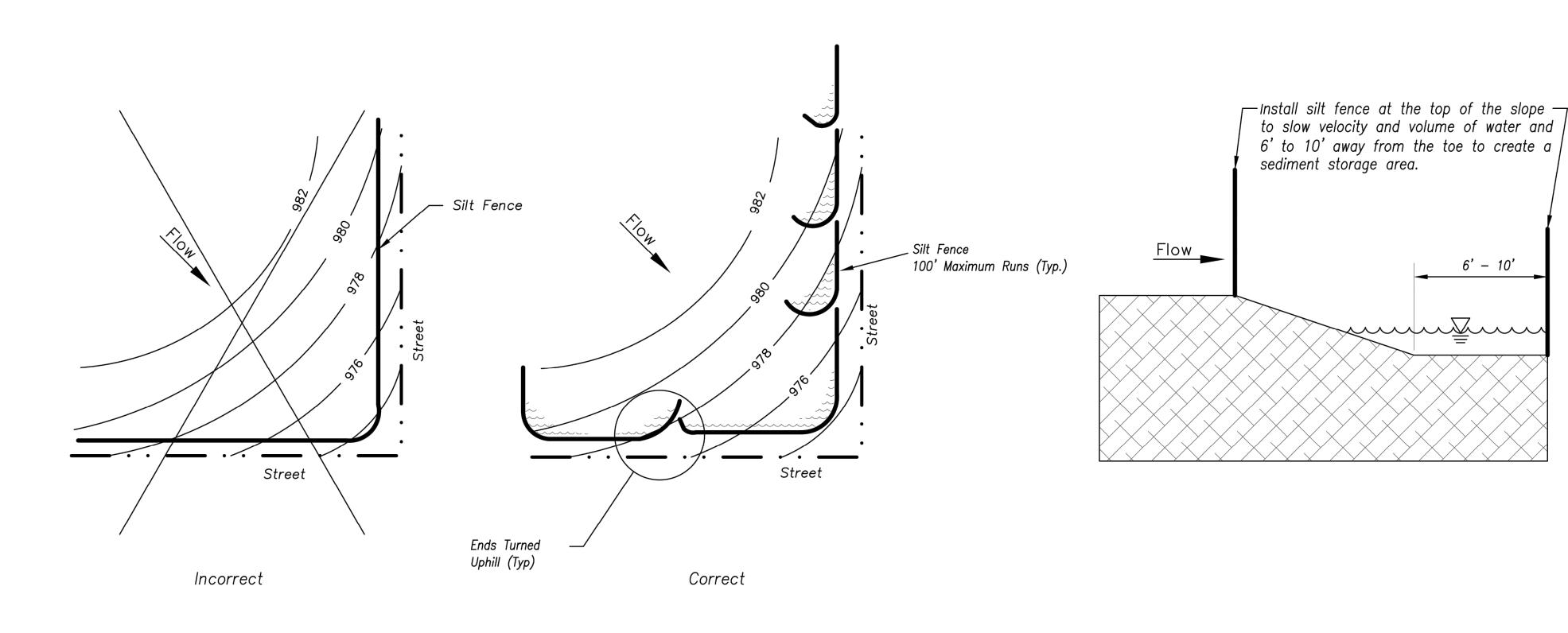
REETS OF WEST IN NW PRYOR ROAD & NESSOURIES SUMMIT, MISSOURIES

A14_7067-1
DESIGNER DRAWN BY

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.



SILT FENCE DETAILS Not to Scale



SILT FENCE LAYOUT

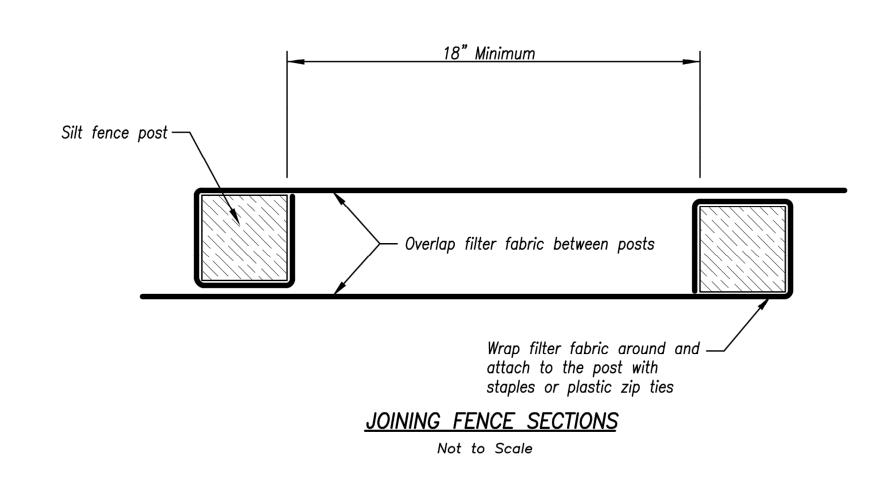
Not to Scale

<u>Notes:</u>

- 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

<u>Maintenance:</u>

- 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.







KANSAS CITY METRO CHAPTER

STANDARD DRAWING NUMBER ESC-03 ADOPTED:

10/24/2016

SILT FENCE

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<u>Figure A</u>

- STEEL 1.33 LB/FT

LEON D. OSBOURN ENGINEER MO # 021726 ACKSON | P.O. BOX 1304 I CITY, KANSAS 66441 5040 | FAX (785) 762-7744 I.com | www.kvens.com ENGINEERING
ORIZED TO OFFER ENGINEERII
E OF AUTHORITY # 000842.

DRIVE

STREETS OF WEST PRYOR

NWQ NW PRYOR ROAD & NW LOWENSTEIN DF

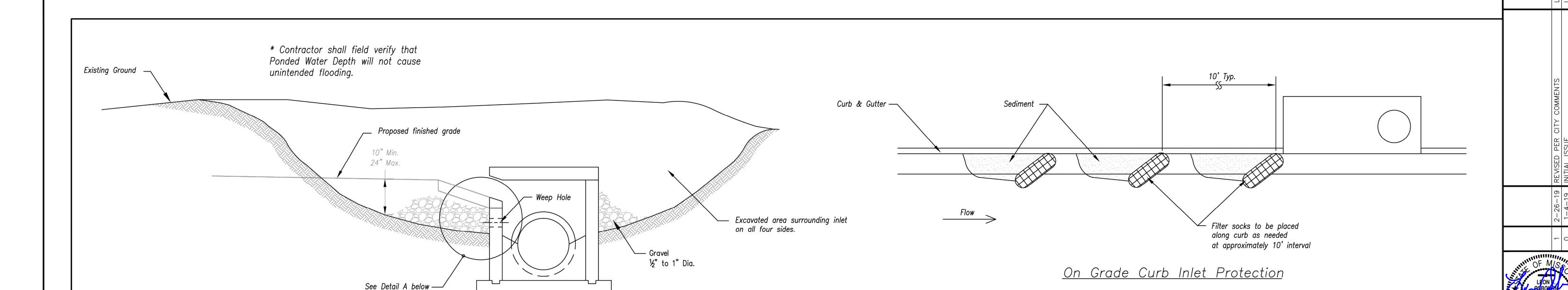
LEE'S SUMMIT, MISSOURI

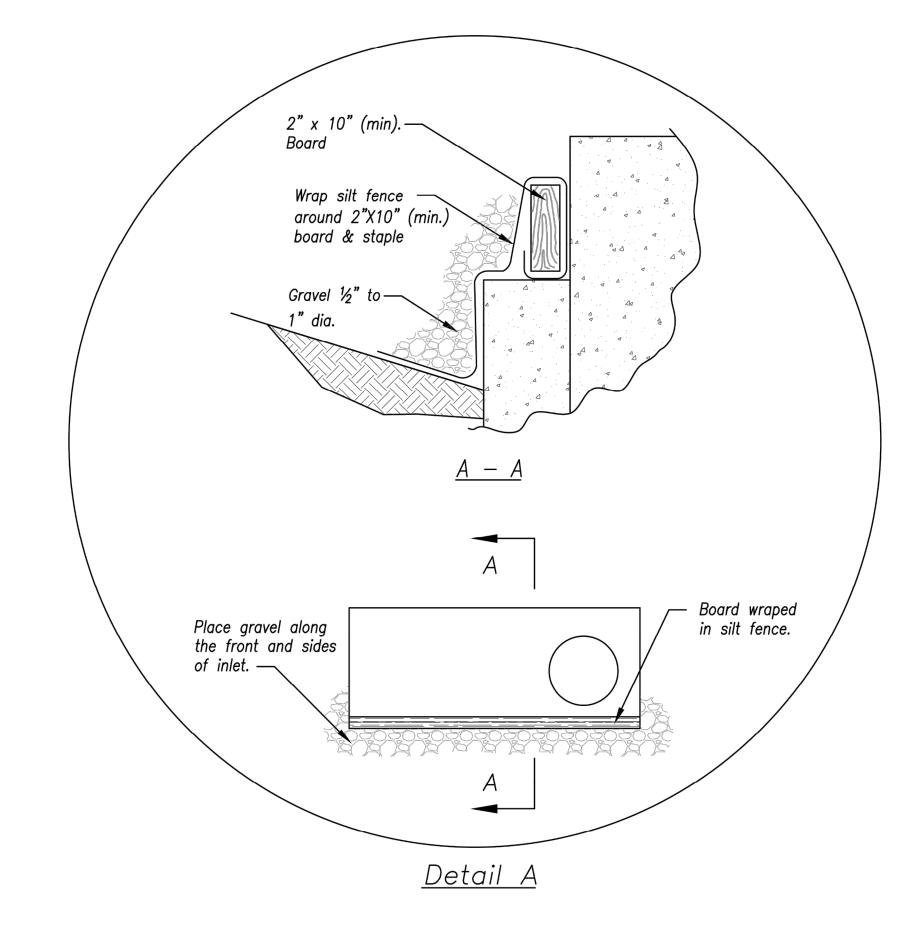
WATER LINE PLANS

DETAIL SHEET

A14_7067-1
DESIGNER DRAWN BY LDO JT/BKR **7067-1W_DET** SHEET

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





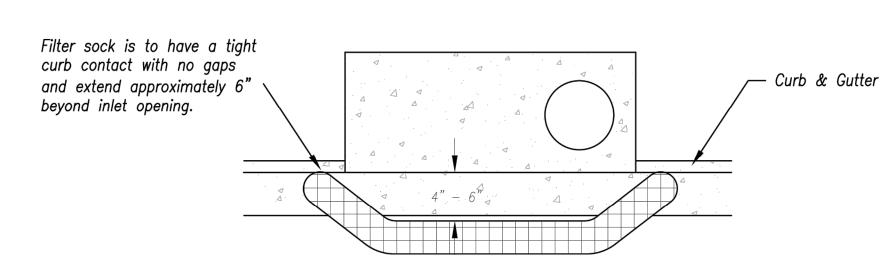
EARLY STAGE CURB INLET (Open Box and Prior to Pouring Curb and Inlet Throat)

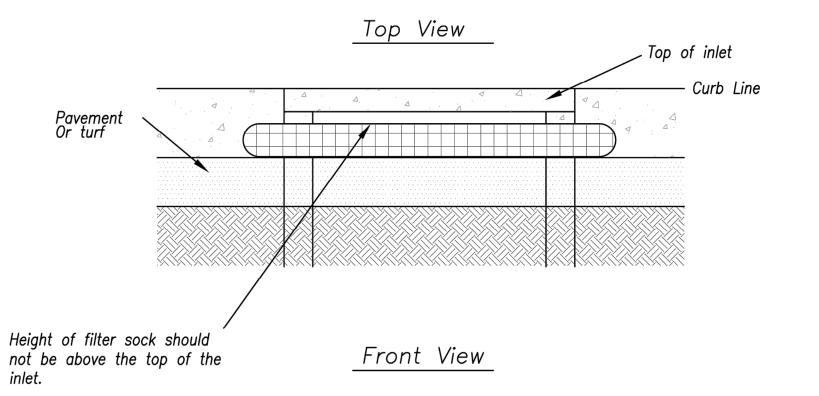
<u>Notes:</u>

- 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.
- Contractor to field verify ponding water shall not create a traffic hazard.

<u>Maintenance:</u>

- 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
- 3. Repair or replace as necessary to maintain function and integrity





Sump Inlet Sediment Filter

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

AMERICAN PUBLIC WORKS ASSOCIATION KANSAS CITY

CURB INLET PROTECTION

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

STREETS OF WEST PRYOR
NWQ NW PRYOR ROAD & NW LOWENSTEIN DE
LEE'S SUMMIT, MISSOURI
WATER LINE PLANS
DETAIL SHEET A14_7067-1
DESIGNER DRAWN BY LDO JT/BKR **7067-1W_DET**SHEET

DRIVE

LEON D. OSBOURN ENGINEER MO # 021726

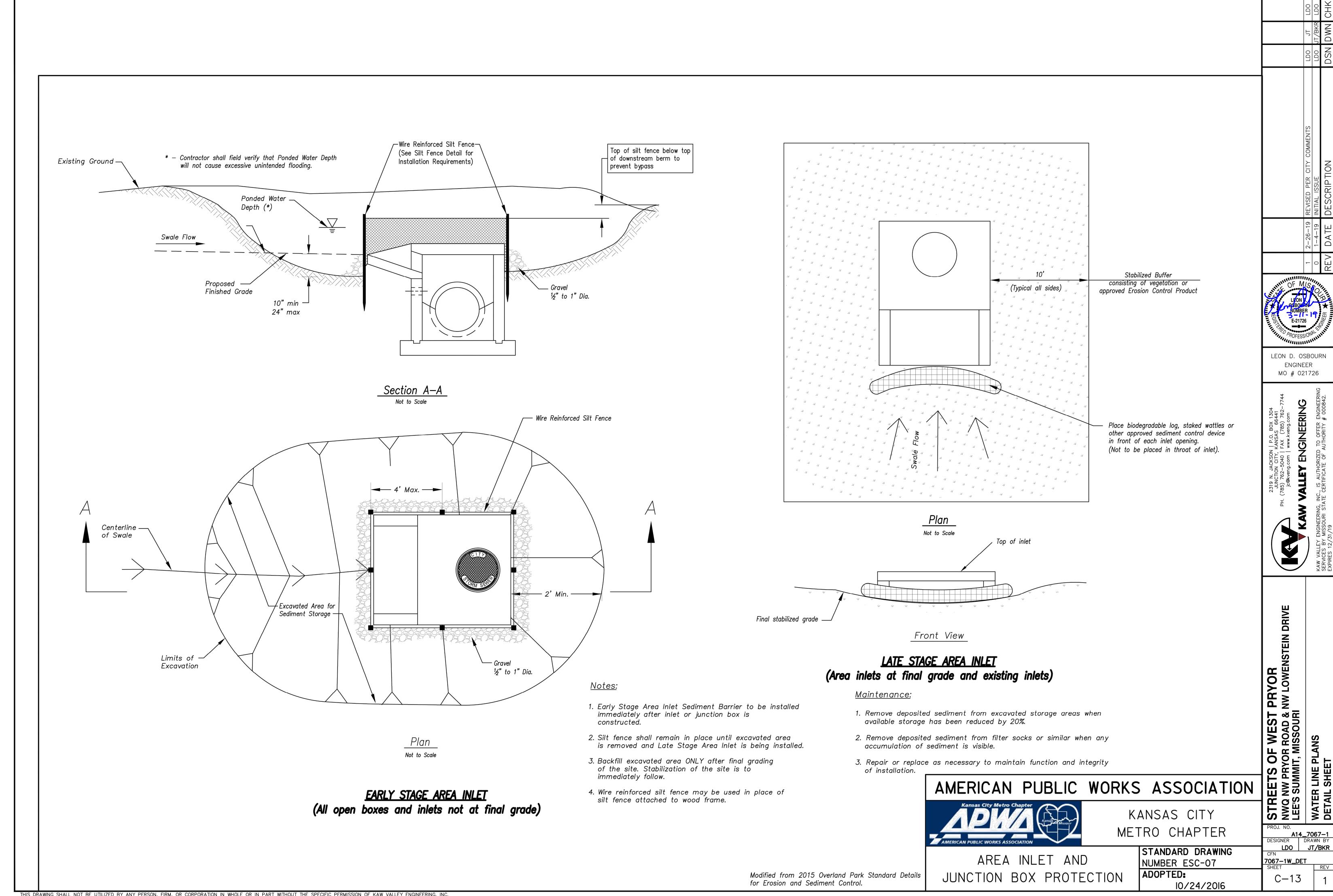
ENGINEERING

ACKSON | P.O. BOX 1304 I CITY, KANSAS 66441 5040 | FAX (785) 762-7744 I.com | www byser

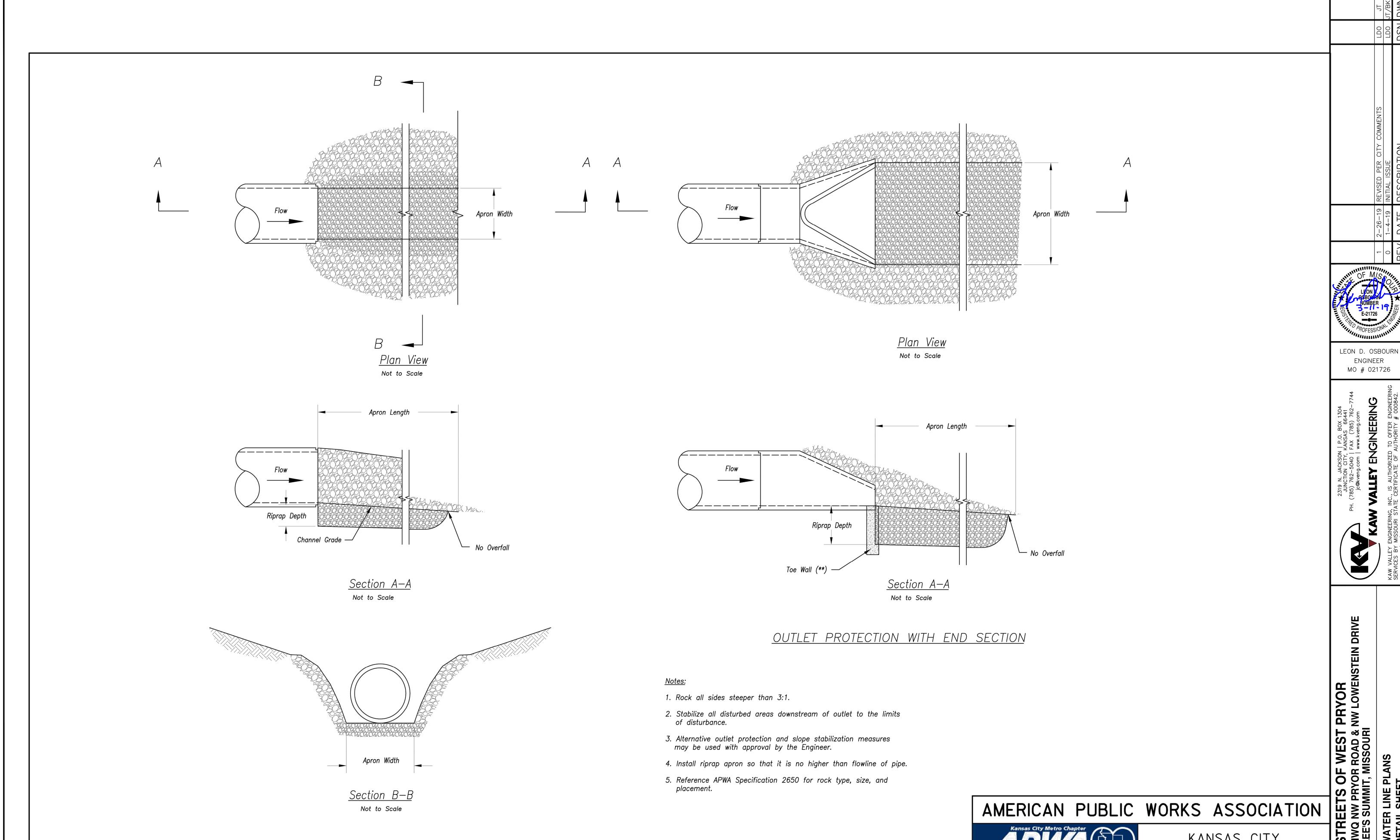
Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

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METRO CHAPTER



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



KANSAS CITY METRO CHAPTER

NUMBER ESC-14 OUTLET PROTECTION ADOPTED: 10/24/2016

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OUTLET PROTECTION W/O END SECTION