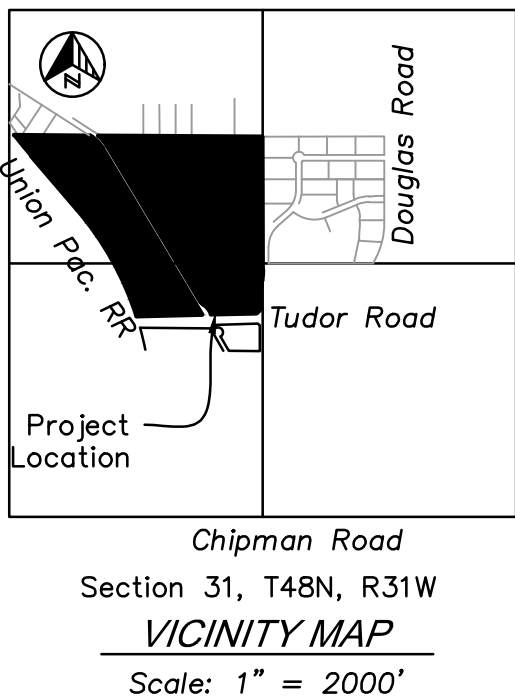


# MASS GRADING AND EROSION & SEDIMENT CONTROL PLAN FOR DEVELOPMENT LEE'S SUMMIT LOGISTICS AN UNPLATTED PARCEL IN THE WEST HALF OF SECTION 31, TOWNSHIP 48 NORTH, RANGE 31 WEST, IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY MISSOURI

AN UNPLATTED PARCEL IN THE WEST HALF OF SECTION 31, TOWNSHIP 48  
NORTH, RANGE 31 WEST, IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY  
MISSOURI

UTILITY AND GOVERNING AGENCY CONTACT INFORMATION	
CITY OF LEE'S SUMMIT, MO	
CITY OF LEE'S SUMMIT: CITY HALL	220 SE GREEN STREET LEE'S SUMMIT, MO 64063 PH: 816-969-1000
LEE'S SUMMIT DEVELOPMENT SERVICES:	220 SE GREEN STREET LEE'S SUMMIT, MO 64063 PH: 816-969-1200
LEE'S SUMMIT PUBLIC WORKS:	220 SE GREEN STREET LEE'S SUMMIT, MO 64063 PH: 816-969-1800
LEE'S SUMMIT WATER UTILITIES SERVICE CENTER:	1200 SE HAMBLEN ROAD LEE'S SUMMIT, MO 64081 PH: 816-969-1900
LEE'S SUMMIT R-7 SCHOOL DISTRICT	KINZIE WOODERSON 301 NE TUDOR ROAD LEE'S SUMMIT, MO 64086 PH: 816-986-1050 KINZIE.WOODERSON@RS7.NET
CABLE/FIBER/TELEPHONE SERVICE	
AT&T	RON GIPPERT 500 E. 8TH STREET, ROOM 1146 KANSAS CITY, MO 64106 PH: 816-275-1550 EMAIL: RG7910@ATT.COM
CONSOLIDATED COMMUNICATIONS	JOHN CASTILLO 14859 W. 95TH STREET LENEXA, KS 66215 PH: 913-322-9785 EMAIL: JOHNCASTILLO@CONSOLIDATED.COM
GOOGLE FIBER	LAUREN MARCUCCI 1814 WESTPORT ROAD KANSAS CITY, MO 64111 PH: 913-663-1900 EMAIL: LMARCUCCI@GOOGLE.COM
CHARTER/SPECTRUM	TROY PREWITT 8221 W. 119TH STREET OVERLAND PARK, KS 66213 PH: 816-401-3573 EMAIL: TROY.PREWITT@CHARTER.COM
ELECTRIC SERVICE	
EVERGY	JEFF R. WILLIAMS - ENGINEER CENTRAL DIVISION 401 SE BAILEY ROAD LEE'S SUMMIT, MO 64081 PH: 816-347-4310 EMAIL: JEFF.WILLIAMS@KCP&L.COM
GAS SERVICE	
SPIRE GAS	RICHARD FROCK 3025 SE CLOVER DRIVE LEE'S SUMMIT, MO 64082 PH: 816-472-3489 EMAIL: RICHARD.FROCK@SPIREENERGY.COM

DEVELOPMENT TEAM CONTACT INFORMATION	
OWNER/DEVELOPER	
SHAUN COFER	8801 RIVER CROSSING BLVD SUITE 300
SCANNELL PROPERTIES #603, LLC	INDIANAPOLIS, IN 46240 PH: 317-218-1648 EMAIL: Shaun@scannellproperties.com
CIVIL ENGINEER	
METH REECE/LUKE MOORE WITH PLEAK, PE	7301 W. 133RD STREET SUITE 200
OLSSON	OVERLAND PARK, KS 66213 PH: 913.381.1170 EMAIL: sreece@olsson.com/lmoore@olsson.com EMAIL: mpleak@olsson.com



THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL NUMBER 583, 78TH GENERAL ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, & OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. CALL 1-800-DIG-RITE.



LOCATION MAP  
NOT TO SCALE

PROPERTY DESCRIPTION:

LOT 3, LEE'S SUMMIT LOGISTICS, A SUBDIVISION IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI.

ALL THAT PART OF AN UNPLATTED TRACT OF LAND, TOGETHER WITH ALL THAT PART OF NORTH MAIN STREET RIGHT OF WAY, ALL LYING IN THE WEST HALF OF SECTION 31, TOWNSHIP 48 NORTH, RANGE 31 WEST, LYING IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, DESCRIBED BY PATRICK ETHAN WARD, MO PLS-20050071, OF OLSSON MOLC-366, ON JANUARY 18, 2022, AS FOLLOWS:

BEGINNING AT THE NORTH-EAST CORNER OF THE SOUTHWEST QUARTER OF SECTION 31, TOWNSHIP 48 NORTH, RANGE 31 WEST; THENCE SOUTH ONE DEGREE 59 MINUTES 47 SECONDS WEST, ON THE EAST LINE OF SAID SOUTHWEST QUARTER, A DISTANCE OF 65.98 FEET TO A POINT ON THE WEST LINE OF NW SLOAN STREET RIGHT OF WAY, AS SHOWN ON PLAT 101-2010075031, CONTINUING ON SAID WEST LINE AND ON A CURVE TO THE RIGHT WHOSE INITIAL TANGENT BEARS SOUTH 02 DEGREES 47 MINUTES 37 SECONDS WEST, HAVING A RADIUS OF 970.00 FEET, THROUGH A CENTRAL ANGLE OF 6 DEGREES 27 MINUTES 07 SECONDS, AN ARC DISTANCE OF 109.23 FEET TO A POINT OF TANGENCY; THENCE SOUTH 09 DEGREES 14 MINUTES 44 SECONDS WEST, ON THE WEST LINE OF SAID SLOAN STREET RIGHT OF WAY, A DISTANCE OF 10.00 FEET TO THE INTERSECTION OF SAID WEST LINE AND THE CURVE TO THE LEFT, HAVING A RADIUS OF 1030.00 FEET, THROUGH A CENTRAL ANGLE OF 7 DEGREES 14 MINUTES 57 SECONDS, AN ARC DISTANCE OF 130.32 FEET TO A POINT OF TANGENCY; THENCE SOUTH ONE DEGREE 59 MINUTES 47 SECONDS WEST, CONTINUING ON SAID WEST LINE, A DISTANCE OF 69.49 FEET TO A POINT OF TANGENCY; THENCE SOUTH 02 DEGREE 47 MINUTES 37 SECONDS WEST, ESTABLISHED IN SAID DOCUMENT 2010075031; THENCE SOUTH 46 DEGREES 5 MINUTES 48 SECONDS WEST, ON THE NORTH LINE OF SAID NORTH LINE, A DISTANCE OF 124.23 FEET TO THE INTERSECTION OF SAID NORTH LINE AND THE NORTH LINE OF NW TUDOR ROAD RIGHT OF WAY, AS ESTABLISHED IN DOCUMENT 20130075030, A DISTANCE OF 1249.23 FEET TO A POINT ON THE EAST LINE OF UNION PACIFIC RAILROAD RIGHT OF WAY, AS NOW ESTABLISHED, SAID POINT ALSO LYING ON A NON-TANGENT CURVE; THENCE IN A NORTHERLY AND EASTERLY CURVED COURSE, THROUGH A CENTRAL ANGLE OF 22 DEGREES 48 MINUTES 11 SECONDS, AN ARC DISTANCE OF 1275.12 FEET TO A POINT OF TANGENCY; THENCE NORTH 38 DEGREES 34 MINUTES 39 SECONDS WEST, CONTINUING ON SAID EAST LINE, A DISTANCE OF 738.40 FEET TO A POINT OF CURVATURE; THENCE IN A NORTHERLY AND EASTERLY CURVED COURSE, THROUGH A CENTRAL ANGLE OF 22 DEGREES 48 MINUTES 11 SECONDS, AN ARC DISTANCE OF 1275.12 FEET TO A POINT OF TANGENCY; THENCE SOUTH 02 DEGREES 39 MINUTES 22 SECONDS, AN ARC DISTANCE OF 277.27 FEET TO A POINT ON THE NORTH LINE OF THE SOUTH HALF OF THE NORTHWEST QUARTER OF SAID SECTION 31, SAID POINT ALSO LYING ON A NON-TANGENT LINE; THENCE SOUTH 87 DEGREES 40 MINUTES 30 SECONDS EAST, DEPARTING SAID EAST LINE, ON SAID NORTH LINE OF SAID NORTHWEST QUARTER, A DISTANCE OF 1318.02 FEET TO THE POINT OF BEGINNING, CONTAINING 3,439.86 SQUARE FEET OR 78.9677 ACRES, MORE OR LESS.

Sheet List Table	
Sheet Number	Sheet Title
LD0.0	COVER SHEET
LD0.1	GENERAL NOTES
LD1.0	PHASE A – EROSION CONTROL PLAN
LD1.1	PHASE B – EROSION CONTROL PLAN
LD1.2	PHASE C – EROSION CONTROL PLAN
LD1.3	PHASE D – EROSION CONTROL PLAN
LD1.4	SEDIMENT BASIN #1 DETAIL
LD2.0	EROSION CONTROL DETAILS
LD2.1	EROSION CONTROL DETAILS
LD2.2	EROSION CONTROL DETAILS
LD2.3	EROSION CONTROL DETAILS
LD2.4	EROSION CONTROL DETAILS

MITCH PLEAK, P.E.  
CIVIL ENGINEER  
MO # PE-2009018764

DATE \_\_\_\_\_

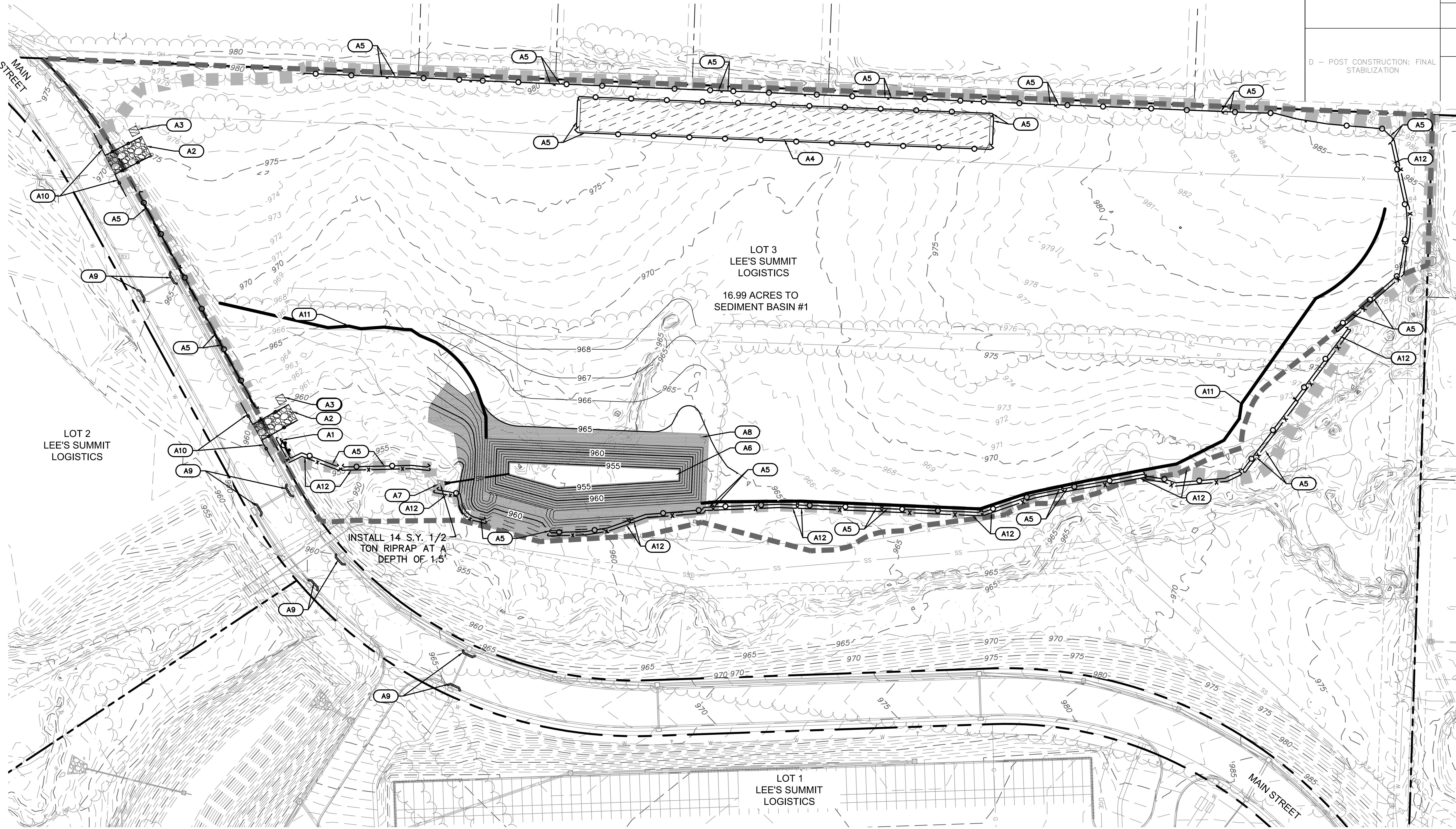
☐ NOT FOR CONSTRUCTION

☒ REVIEWED FOR CONSTRUCTION

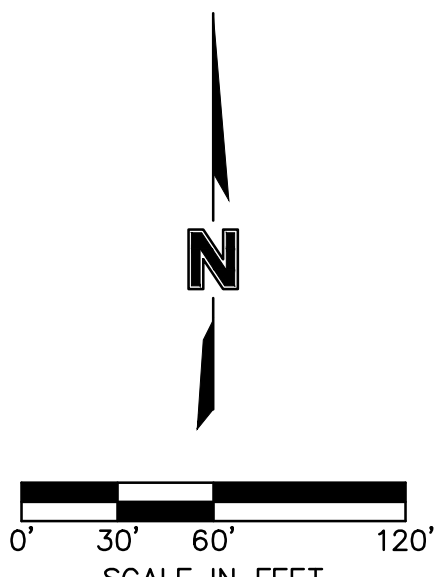








EROSION CONTROL STAGING CHART				
PROJECT PHASE	EROSION CONTROL BMP REFERENCE NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
A – PRE-CONSTRUCTION	A1	INSTALL SWPPP SIGN	D	INSTALL AS INDICATED ON PLANS
	A2	TEMPORARY CONSTRUCTION ENTRANCE	C	INSTALL AS INDICATED ON PLANS
	A3	TEMPORARY CONCRETE WASHOUT	C	INSTALL AS INDICATED ON PLANS
	A4	TEMPORARY STAGING/STOCKPILE AREA	C	INSTALL AS INDICATED ON PLANS
	A5	TEMPORARY SEDIMENT FENCE	C	INSTALL AS INDICATED ON PLANS
	A6	TEMPORARY SEDIMENT BASIN	C	INSTALL AS SHOWN. SEE SHEET(S) LD2.2 FOR DETAILS.
	A7	END SECTION PROTECTION (RIPRAP)	C	INSTALL AS SHOWN. SEE SHEET(S) LD2.3 FOR DETAILS.
	A8	TEMPORARY SLOPE STABILIZATION (EROSION CONTROL BLANKET)	C	INSTALL AS INDICATED ON PLANS
	A9	CURB INLET PROTECTION – LATE STAGE	C	INSTALL AS INDICATED ON PLANS
	A10	TEMPORARY WATTLE/BIODEGRADABLE LOG	C	INSTALL AS INDICATED ON PLANS
	A11	TEMPORARY DIVERSION BERM	B	INSTALL AS INDICATED ON PLANS
	A12	TEMPORARY REINFORCED SILT FENCE SLOPE BARRIER	C	INSTALL AS INDICATED ON PLANS
	A13	NOT USED	N/A	
	A14	NOT USED	N/A	
B – CLEARING, MASS GRADING, AND CONSTRUCTION OF SANITARY SEWER	B1	TEMPORARY DIVERSION BERM	B	INSTALL AS INDICATED ON PLANS. PHASE A BERM TO BE REMOVED UPON COMPLETION OF THIS BERM
	B2	TEMPORARY SEDIMENT FENCE	C	INSTALL AS NEEDED.
	B3	TEMPORARY SLOPE STABILIZATION (EROSION CONTROL BLANKET)	C	INSTALL AS INDICATED ON PLANS
C – CONSTRUCTION: BUILDING, PAVEMENT & STORM SEWER AND UTILITIES	C1	NOT USED	N/A	
	C2	TEMPORARY CURB INLET PROTECTION (CONDITION A)	C	INSTALL AS INDICATED ON PLANS
	C3	TEMPORARY AREA INLET/JUNCTION BOX PROTECTION (CONDITION A)	C	INSTALL AS INDICATED ON PLANS
	C4	TEMPORARY LANDSCAPE DRAIN PROTECTION (CONDITION A)	C	INSTALL AS INDICATED ON PLANS
	C5	TEMPORARY CURB INLET PROTECTION (CONDITION B)	C	REMOVE AS INDICATED ON PLANS
	C6	TEMPORARY AREA INLET/JUNCTION BOX PROTECTION (CONDITION B)	C	INSTALL AS INDICATED ON PLANS
	C7	TEMPORARY LANDSCAPE DRAIN PROTECTION (CONDITION B)	C	INSTALL AS INDICATED ON PLANS
	C8	END SECTION PROTECTION (RIPRAP)	N/A	INSTALL AS INDICATED ON PLANS
	C9	REMOVE SEDIMENT BASIN	N/A	BASIN TO BE FILLED AND COMPACTED TO FINISH GRADE ONCE STORM SEWER HAS BEEN INSTALLED.
	D1	NOT USED	N/A	
D – POST CONSTRUCTION: FINAL STABILIZATION	D2	REPLACE TOP SOIL, SEED MULCH, SOD, LANDSCAPE	N/A	WITH A 70% DENSITY OVER 100% OF THE DISTURBED AREA. REFERENCE LANDSCAPE UNDERSTORY PLANS FOR DETAILS. INTERVAL TO THE LIMITS OF SEEDING PER THE LEGEND ABOVE.







LOT 3  
LEE'S SUMMIT  
LOGISTICS  
15.8 ACRES TO  
SEDIMENT BASIN #1

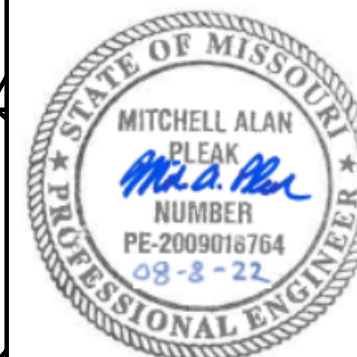
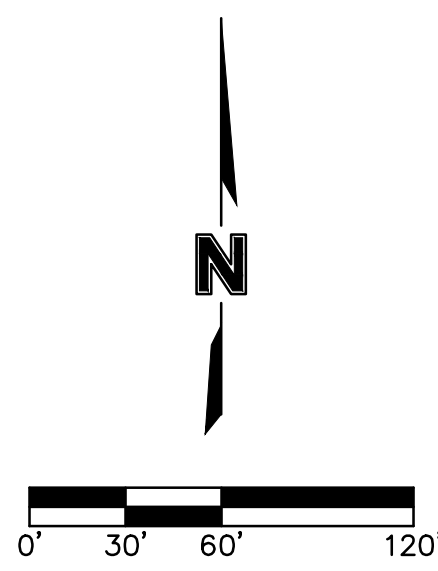
MASS GRADE PROPOSED DRY  
DETENTION BASIN. WATER TO  
BE DIVERTED TO SEDIMENT  
BASIN UNTIL STORM SEWER  
HAS BEEN INSTALLED.

LOT 5  
SUMMIT NORTH  
BUSINESS PARK

LOT 5  
SUMMIT NORTH  
BUSINESS PARK

LOT 9  
DOUGLAS STATION  
COMMERCIAL PARK

TRACT A  
DOUGLAS STATION  
COMMERCIAL PARK

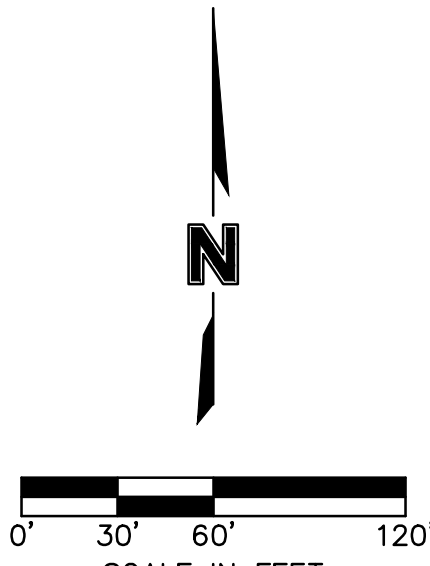
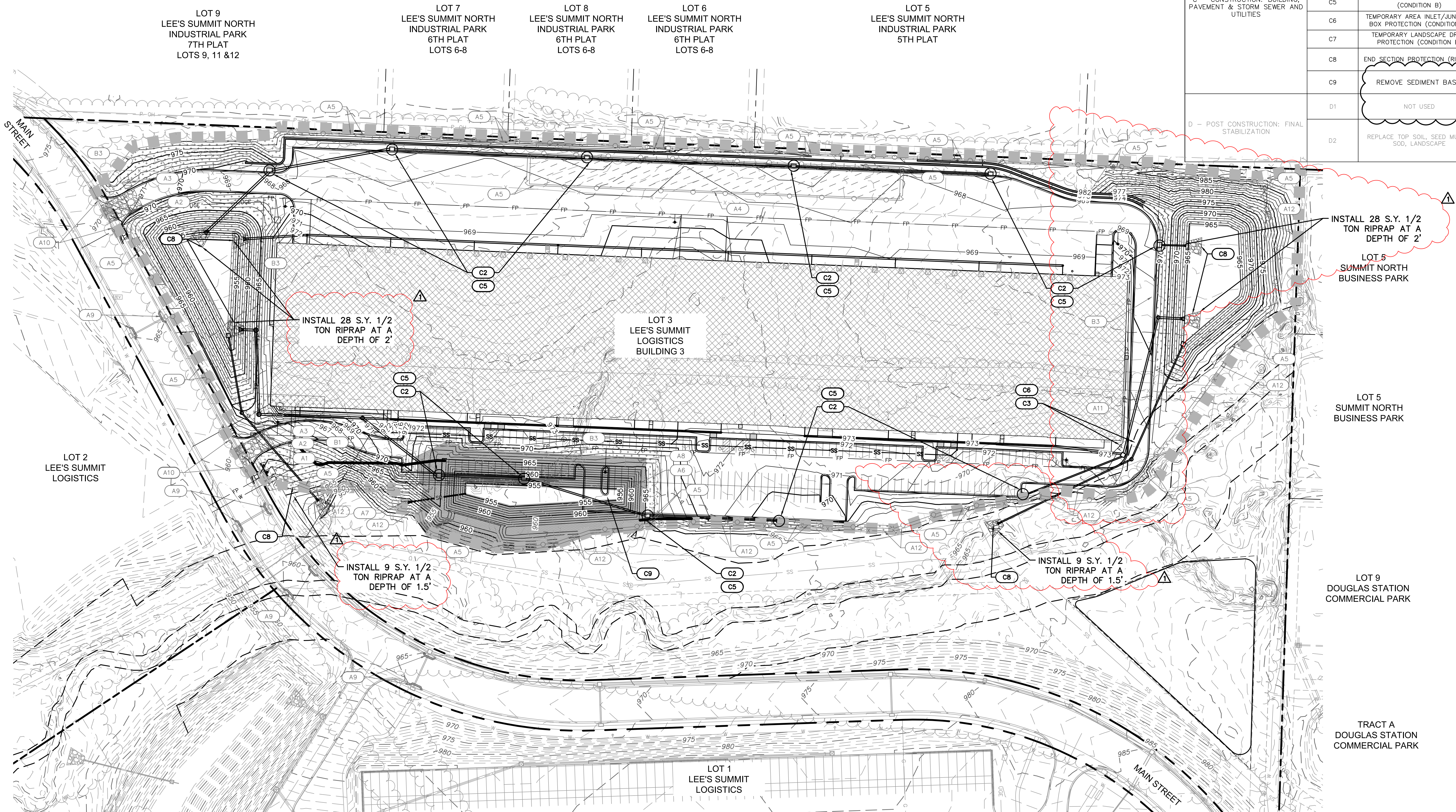




DWG: F:\2021\04001-04500\021-04157-c40-design\Autocad\final plans\Sheets\NCV\Land Disturbance\C\_EROC3\_C2104157.dwg USER: bboyne2  
DATE: Aug 10, 2022 12:29pm XREFS: C:\PRAISE\_C2104157 C:\BLK\_C2104157 C:\PSURF\_C2104157 C:\PSURF\_EROC01\_C2104157 C:\PSURF\_EROC02\_C2104157 C:\PSURF\_EROC03\_C2104157 C:\ERC\_LEGEND\_C2104157

LEGEND	
	PROPERTY LINE
	SURROUNDING PROPERTY LINES
	EXISTING CONTOUR
	PROPOSED CONTOUR
	TEMPORARY SEDIMENT FENCE
	INSTALL TEMPORARY REINFORCED SILT FENCE SLOPE BARRIER
	INSTALL TEMPORARY WATTLE/BIODEGRADABLE LOG
	LIMITS OF DISTURBANCE (15.8 ACRES)
	DRAINAGE BOUNDARIES
	TEMPORARY DIVERSION BERM (REFERENCE DETAILS)
	STABILIZATION. "LANDLOK (S2)" (EROSION CONTROL BLANKET) SHALL BE USED OR APPROVED EQUAL. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. SEED WITH PERENNIAL SEEDING TO MEET SWPPP REQUIREMENTS. INSTALL PER DETAIL AND MANUFACTURER RECOMMENDATIONS.
	STABILIZATION. "LANDLOK (S2)" (EROSION CONTROL BLANKET) SHALL BE USED OR APPROVED EQUAL. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. SEED WITH PERENNIAL SEEDING TO MEET SWPPP REQUIREMENTS. INSTALL PER DETAIL AND MANUFACTURER RECOMMENDATIONS.
	STABILIZATION. "LANDLOK (S2)" (EROSION CONTROL BLANKET) SHALL BE USED OR APPROVED EQUAL. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. SEED WITH PERENNIAL SEEDING TO MEET SWPPP REQUIREMENTS. INSTALL PER DETAIL AND MANUFACTURER RECOMMENDATIONS.
	TEMPORARY CONSTRUCTION ENTRANCE
	TEMPORARY STAGING/STOCKPILE AREA
	CONCRETE WASHOUT
	EROSION CONTROL REFERENCE NUMBER
	GRAVEL BAGS CURB INLET PROTECTION

EROSION CONTROL STAGING CHART				
PROJECT PHASE	EROSION CONTROL BMP REFERENCE NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
A - PRE-CONSTRUCTION	A1	INSTALL SWPPP SIGN	D	INSTALL AS INDICATED ON PLANS
	A2	TEMPORARY CONSTRUCTION ENTRANCE	C	INSTALL AS INDICATED ON PLANS
	A3	TEMPORARY CONCRETE WASHOUT	C	INSTALL AS INDICATED ON PLANS
	A4	TEMPORARY STAGING/STOCKPILE AREA	C	INSTALL AS INDICATED ON PLANS
	A5	TEMPORARY SEDIMENT FENCE	C	INSTALL AS INDICATED ON PLANS
	A6	TEMPORARY SEDIMENT BASIN	C	INSTALL AS SHOWN. SEE SHEET(S) LD2.2 FOR DETAILS.
	A7	END SECTION PROTECTION (RIPRAP)	C	INSTALL AS SHOWN. SEE SHEET(S) LD2.3 FOR DETAILS.
	A8	TEMPORARY SLOPE STABILIZATION (EROSION CONTROL BLANKET)	C	INSTALL AS INDICATED ON PLANS
	A9	CURB INLET PROTECTION - LATE STAGE	C	INSTALL AS INDICATED ON PLANS
	A10	TEMPORARY WATTLE/BIODEGRADABLE LOG	C	INSTALL AS INDICATED ON PLANS
	A11	TEMPORARY DIVERSION BERM	B	INSTALL AS INDICATED ON PLANS
	A12	TEMPORARY REINFORCED SILT FENCE SLOPE BARRIER	C	INSTALL AS INDICATED ON PLANS
	A13	NOT USED	N/A	
	A14	NOT USED	N/A	
B - CLEARING, MASS GRADING, AND CONSTRUCTION OF SANITARY SEWER	B1	TEMPORARY DIVERSION BERM	B	INSTALL AS INDICATED ON PLANS. PHASE A BERM TO BE REMOVED UPON COMPLETION OF THIS BERM
	B2	TEMPORARY SEDIMENT FENCE	C	INSTALL AS NEEDED.
	B3	TEMPORARY SLOPE STABILIZATION (EROSION CONTROL BLANKET)	C	INSTALL AS INDICATED ON PLANS
C - CONSTRUCTION: BUILDING, PAVEMENT & STORM SEWER AND UTILITIES	C1	NOT USED	N/A	
	C2	TEMPORARY CURB INLET PROTECTION (CONDITION A)	C	INSTALL AS INDICATED ON PLANS
	C3	TEMPORARY AREA INLET/JUNCTION BOX PROTECTION (CONDITION A)	C	INSTALL AS INDICATED ON PLANS
	C4	TEMPORARY LANDSCAPE DRAIN PROTECTION (CONDITION A)	C	INSTALL AS INDICATED ON PLANS
	C5	TEMPORARY CURB INLET PROTECTION (CONDITION B)	C	INSTALL AS INDICATED ON PLANS
	C6	TEMPORARY AREA INLET/JUNCTION BOX PROTECTION (CONDITION B)	C	INSTALL AS INDICATED ON PLANS
	C7	TEMPORARY LANDSCAPE DRAIN PROTECTION (CONDITION B)	C	INSTALL AS INDICATED ON PLANS
	C8	END SECTION PROTECTION (RIPRAP)	N/A	INSTALL AS INDICATED ON PLANS
	C9	REMOVE SEDIMENT BASIN	N/A	BASIN TO BE FILLED AND COMPACTED TO FINISH GRADE ONCE STORM SEWER HAS BEEN INSTALLED.
D - POST CONSTRUCTION: FINAL STABILIZATION	D1	NOT USED	N/A	
	D2	REPLACE TOP SOIL, SEED MULCH, SOD, LANDSCAPE	N/A	WITH A 70% DENSITY OVER 100% OF THE DISTURBED AREA. REFERENCE LANDSCAPE UNDERSTORY PLANS FOR DETAILS INTERNAL TO THE LIMITS OF SEEDING PER THE LEGEND ABOVE.



drawn by: OLSSON  
checked by: ENG  
approved by: ENG  
checked by: ENG  
project no.: C21-04157  
drawing no.: C2104157.dwg  
date:

PHASE C - EROSION CONTROL PLAN  
MASS GRADING AND EROSION & SEDIMENT CONTROL PLAN  
SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS - BUILDING 3  
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET  
LEE'S SUMMIT, MISSOURI

REV. NO. 1  
DATE 2022-08-10  
REVISIONS DESCRIPTION  
CITY COMMENTS

BY  
REVISIONS



SCANNELL  
PROPERTIES

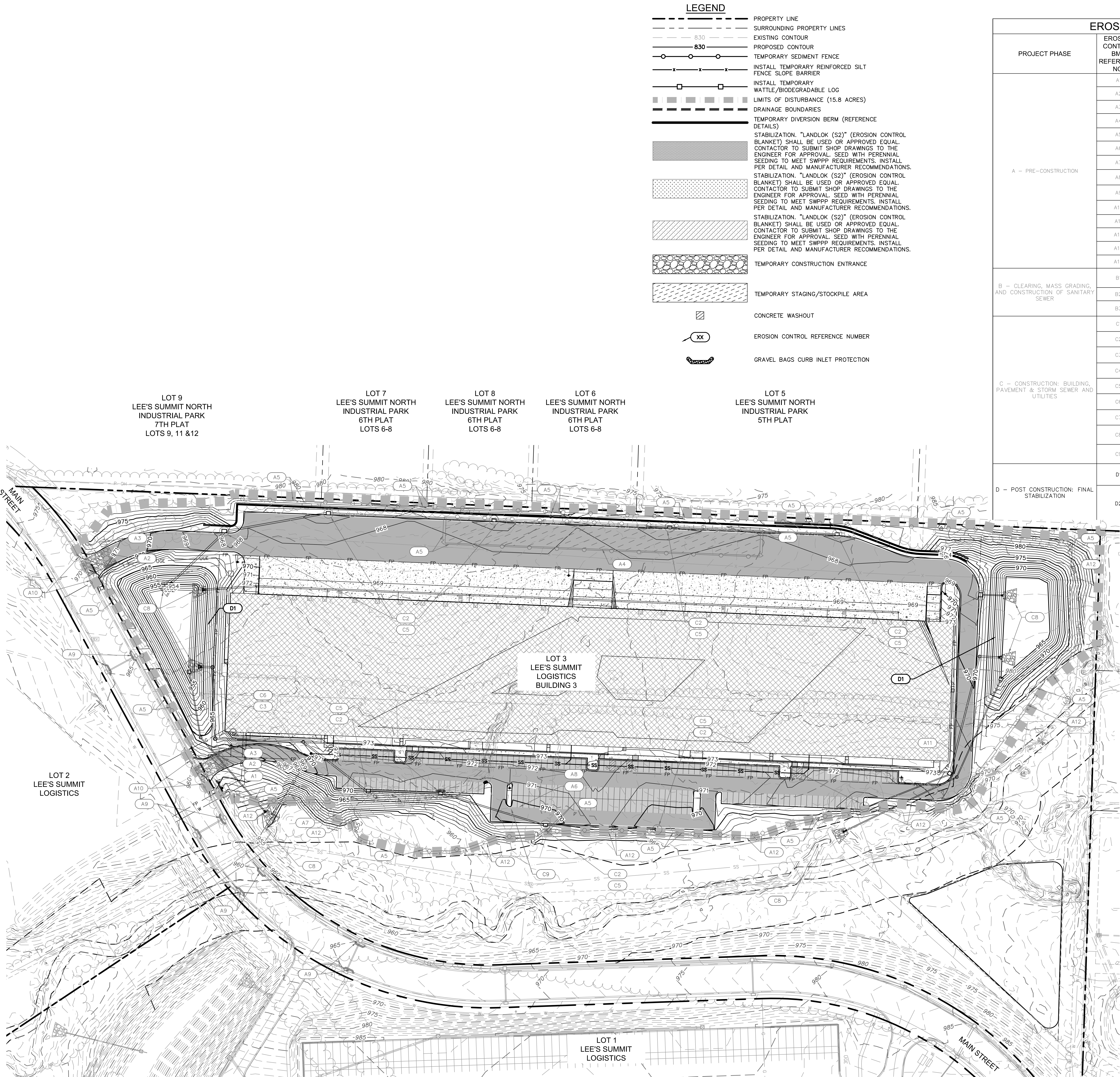
olsson

7901 West 133rd Street, Suite 200  
Overland Park, KS 66213-7756  
TEL 913.381.1170  
www.olsson.com

SHEET  
LD1.2



DWG: F:\2021\04001-04500\021-04157-c40-design\Autocad\final\_plans\Sheets\GNV\Land Disturbance\C\_ER004\_C2104157.dwg USER: bboyne2  
DATE: Aug 10, 2022 12:29pm XREFS: C\_PRAISE\_C2104157 C\_BLK\_C2104157 C\_PSIURF\_C2104157 C\_PSIURF\_ERC01\_C2104157 C\_ERC\_LEGEND\_C2104157 C\_PSIURF\_ERC02\_C2104157 C\_PSIURF\_ERC03\_C2104157



**LEGEND**

- PROPERTY LINE
- SURROUNDING PROPERTY LINES
- EXISTING CONTOUR
- PROPOSED CONTOUR
- TEMPORARY SEDIMENT FENCE
- INSTALL TEMPORARY REINFORCED SILT FENCE SLOPE BARRIER
- INSTALL TEMPORARY WATTLE/BIODEGRADABLE LOG
- LIMITS OF DISTURBANCE (15.8 ACRES)
- DRAINAGE BOUNDARIES
- TEMPORARY DIVERSION BERM (REFERENCE DETAILS)
- STABILIZATION, "LANDLOK (S2)" (EROSION CONTROL BLANKET) SHALL BE USED OR APPROVED EQUAL. CONTACTOR TO SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. SEED WITH PERENNIAL SEEDING TO MEET SWPPP REQUIREMENTS. INSTALL PER DETAIL AND MANUFACTURER RECOMMENDATIONS.
- STABILIZATION, "LANDLOK (S2)" (EROSION CONTROL BLANKET) SHALL BE USED OR APPROVED EQUAL. CONTACTOR TO SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. SEED WITH PERENNIAL SEEDING TO MEET SWPPP REQUIREMENTS. INSTALL PER DETAIL AND MANUFACTURER RECOMMENDATIONS.
- STABILIZATION, "LANDLOK (S2)" (EROSION CONTROL BLANKET) SHALL BE USED OR APPROVED EQUAL. CONTACTOR TO SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. SEED WITH PERENNIAL SEEDING TO MEET SWPPP REQUIREMENTS. INSTALL PER DETAIL AND MANUFACTURER RECOMMENDATIONS.
- TEMPORARY CONSTRUCTION ENTRANCE
- TEMPORARY STAGING/STOCKPILE AREA
- CONCRETE WASHOUT
- EROSION CONTROL REFERENCE NUMBER
- GRAVEL BAGS CURB INLET PROTECTION

EROSION CONTROL STAGING CHART				
PROJECT PHASE	EROSION CONTROL BMP REFERENCE NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
A - PRE-CONSTRUCTION	A1	INSTALL SWPPP SIGN	D	INSTALL AS INDICATED ON PLANS
	A2	TEMPORARY CONSTRUCTION ENTRANCE	C	INSTALL AS INDICATED ON PLANS
	A3	TEMPORARY CONCRETE WASHOUT	C	INSTALL AS INDICATED ON PLANS
	A4	TEMPORARY STAGING/STOCKPILE AREA	C	INSTALL AS INDICATED ON PLANS
	A5	TEMPORARY SEDIMENT FENCE	C	INSTALL AS INDICATED ON PLANS
	A6	TEMPORARY SEDIMENT BASIN	C	INSTALL AS SHOWN, SEE SHEET(S) LD2.2 FOR DETAILS
	A7	END SECTION PROTECTION (RIPRAP)	C	INSTALL AS SHOWN, SEE SHEET(S) LD2.3 FOR DETAILS
	A8	TEMPORARY SLOPE STABILIZATION (EROSION CONTROL BLANKET)	C	INSTALL AS INDICATED ON PLANS
	A9	CURB INLET PROTECTION - LATE STAGE	C	INSTALL AS INDICATED ON PLANS
	A10	TEMPORARY WATTLE/BIODEGRADABLE LOG	C	INSTALL AS INDICATED ON PLANS
	A11	TEMPORARY DIVERSION BERM	B	INSTALL AS INDICATED ON PLANS
	A12	TEMPORARY REINFORCED SILT FENCE SLOPE BARRIER	C	INSTALL AS INDICATED ON PLANS
	A13	NOT USED	N/A	
	A14	NOT USED	N/A	
B - CLEARING, MASS GRADING, AND CONSTRUCTION OF SANITARY SEWER	B1	TEMPORARY DIVERSION BERM	B	INSTALL AS INDICATED ON PLANS, PHASE A BERM TO BE REMOVED UPON COMPLETION OF THIS BERM
	B2	TEMPORARY SEDIMENT FENCE	C	INSTALL AS NEEDED.
	B3	TEMPORARY SLOPE STABILIZATION (EROSION CONTROL BLANKET)	C	INSTALL AS INDICATED ON PLANS
C - CONSTRUCTION: BUILDING, PAVEMENT & STORM SEWER AND UTILITIES	C1	NOT USED	N/A	
	C2	TEMPORARY CURB INLET PROTECTION (CONDITION A)	C	INSTALL AS INDICATED ON PLANS
	C3	TEMPORARY AREA INLET/JUNCTION BOX PROTECTION (CONDITION A)	C	INSTALL AS INDICATED ON PLANS
	C4	TEMPORARY LANDSCAPE DRAIN PROTECTION (CONDITION A)	C	INSTALL AS INDICATED ON PLANS
	C5	TEMPORARY CURB INLET PROTECTION (CONDITION B)	C	REMOVE AS INDICATED ON PLANS
	C6	TEMPORARY AREA INLET/JUNCTION BOX PROTECTION (CONDITION B)	C	INSTALL AS INDICATED ON PLANS
	C7	TEMPORARY LANDSCAPE DRAIN PROTECTION (CONDITION B)	C	INSTALL AS INDICATED ON PLANS
	C8	END SECTION PROTECTION (RIPRAP)	N/A	INSTALL AS INDICATED ON PLANS
	C9	REMOVE SEDIMENT BASIN	N/A	BASIN TO BE FILLED AND COMPACTED TO FINISH GRADE, ONCE STORM SEWER HAS BEEN INSTALLED.
D - POST CONSTRUCTION: FINAL STABILIZATION	D1	NOT USED	N/A	
	D2	REPLACE TOP SOIL, SEED MULCH, SOD, LANDSCAPE	N/A	LANDSCAPE UNDERSTORY PLANS FOR DETAILS INTERNAL TO THE LIMITS OF SEEDING PER THE LEGEND ABOVE.

7301 West 133rd Street, Suite 200  
Overland Park, KS 66213-7756  
TEL 913.381.1170  
www.olsson.com

SCANNELL PROPERTIES

BY	REVISIONS DESCRIPTION	DATE	REV. NO.	CITY COMMENTS
		2022-08-10	1	

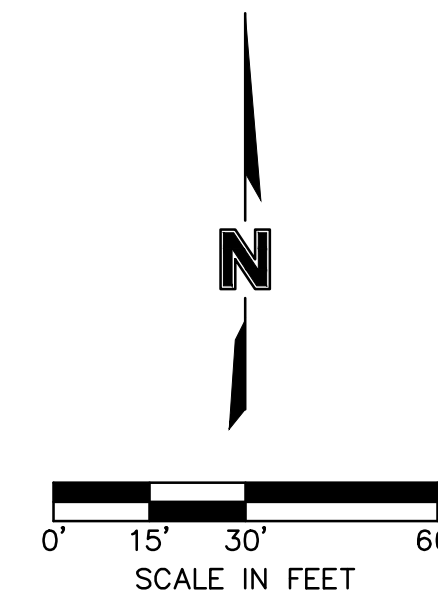
PHASE D - EROSION CONTROL PLAN  
MASS GRADING AND EROSION & SEDIMENT CONTROL PLAN  
SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS - BUILDING 3  
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET  
LEE'S SUMMIT, MISSOURI

drawn by: OLSSON  
checked by: ENG  
approved by: ENG  
checked by: ENG  
project no.: C21-04157  
drawing no.: C2104157.dwg  
date:

2022

SHEET  
LD1.3
















SHEET  
LD1.4

SEDIMENT BASIN #1 DETAIL	
MASS GRADING AND EROSION & SEDIMENT CONTROL PLAN	
SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS - BUILDING 3 NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET	
LEE'S SUMMIT, MISSOURI	2022

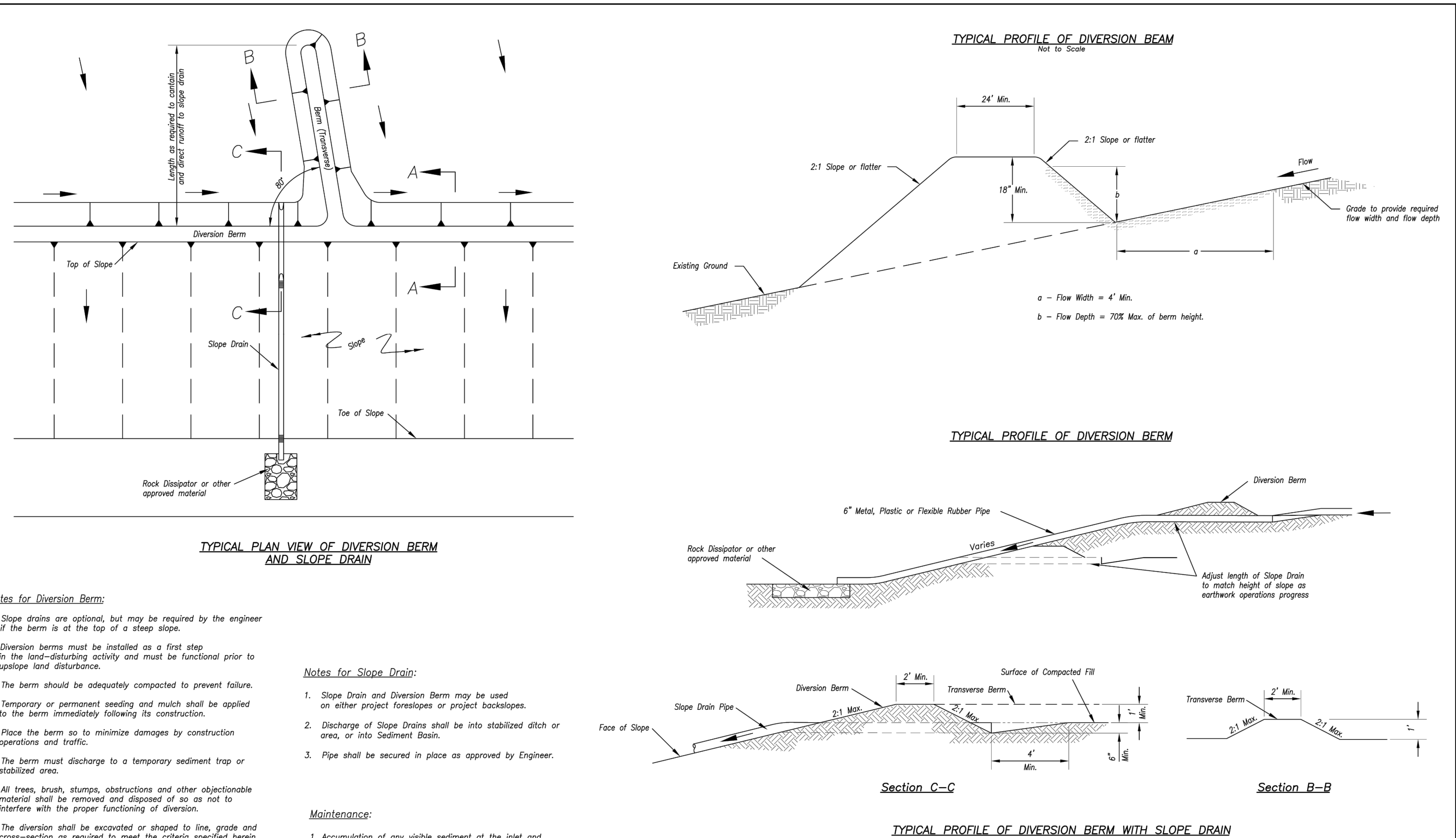
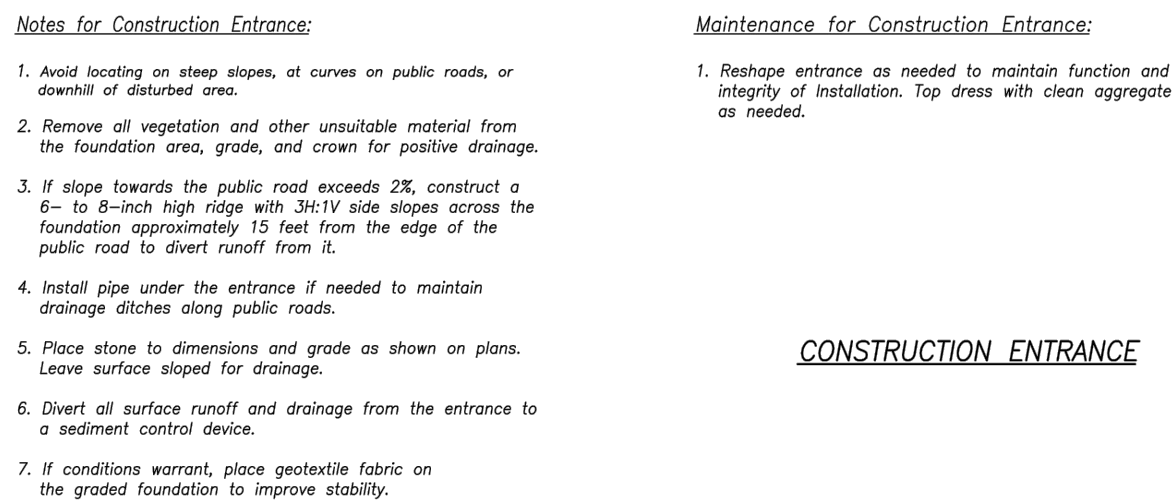
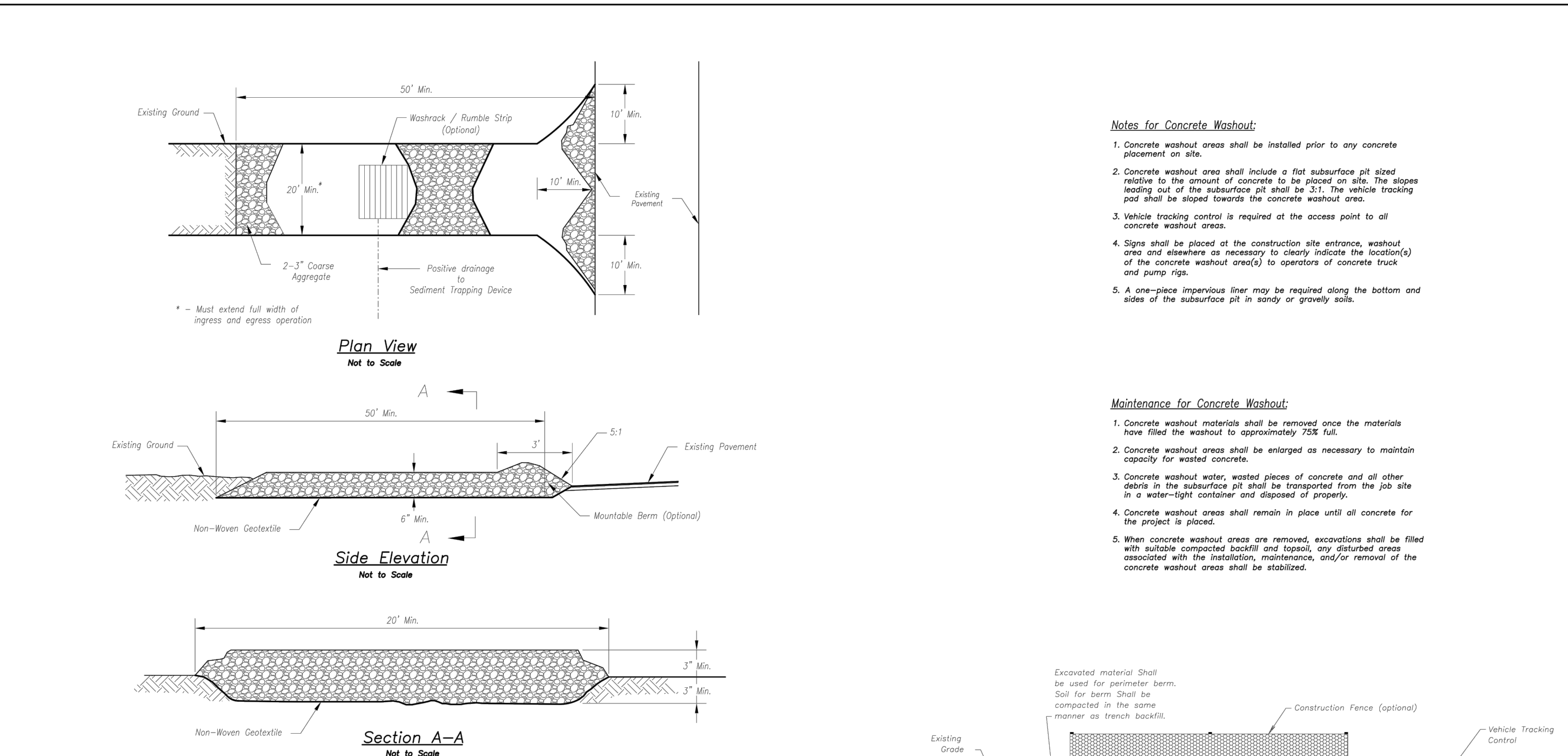
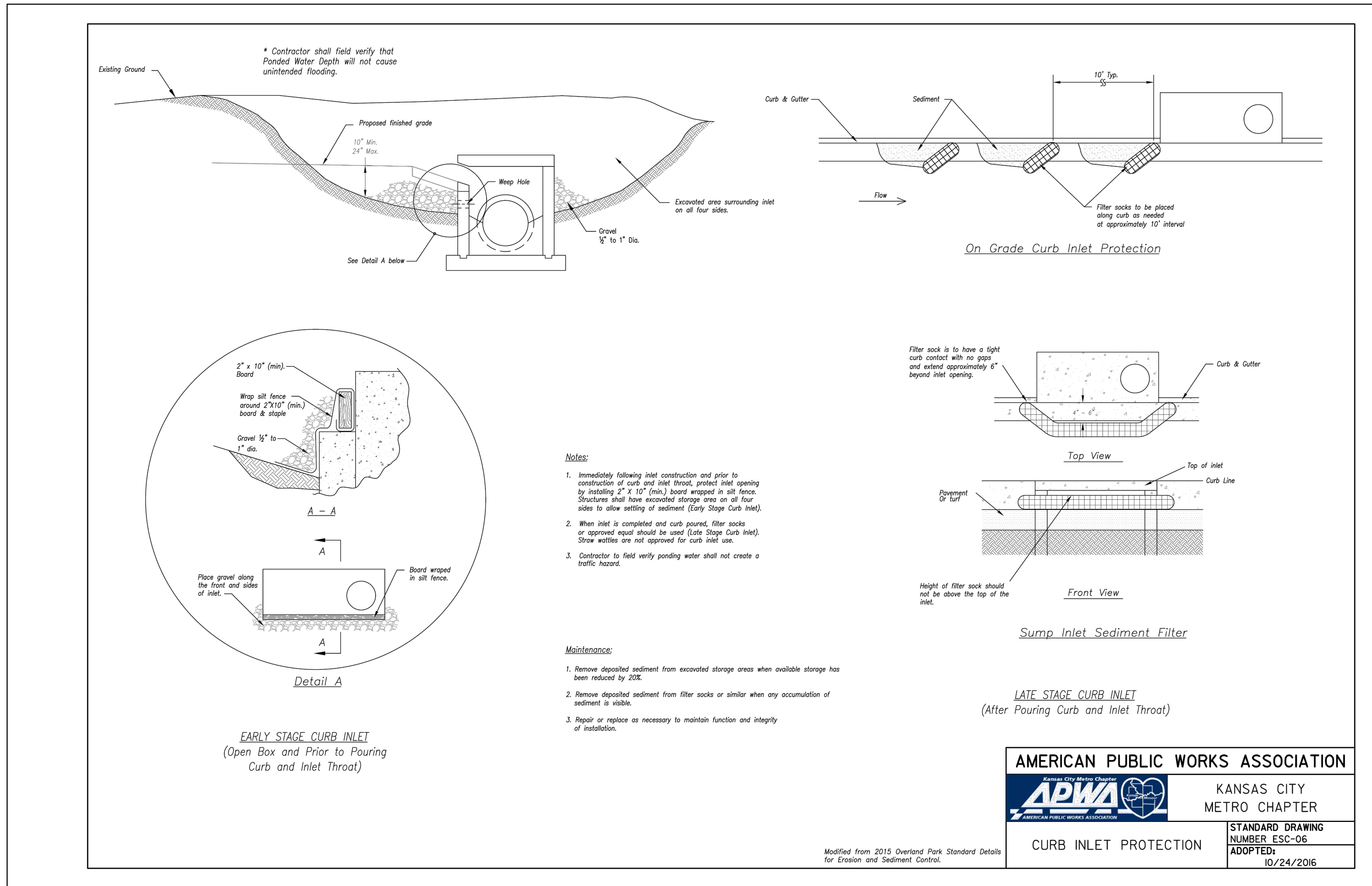
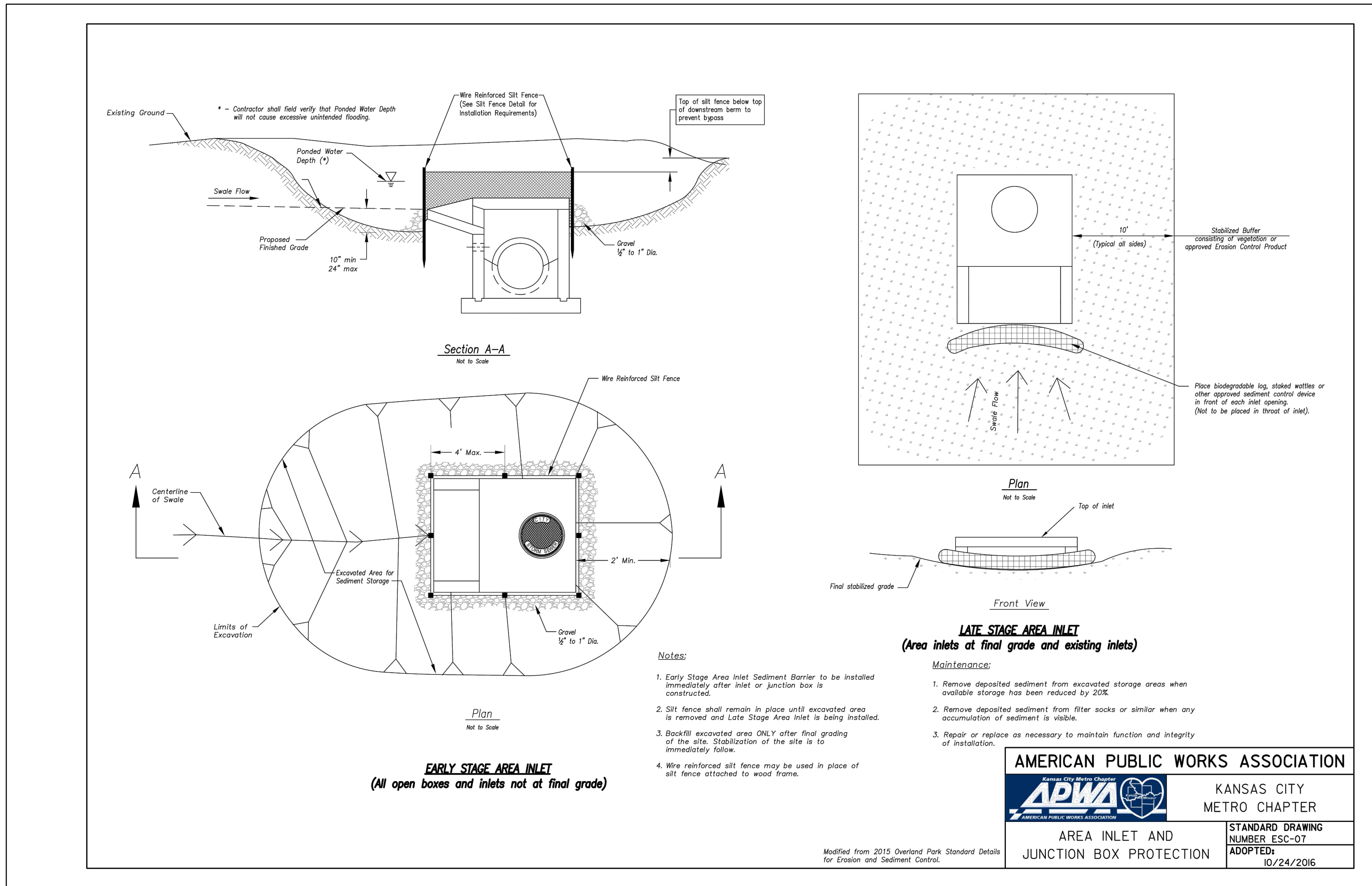


7301 West 133rd Street, Suite 200  
Overland Park, KS 66213-4750  
TEL 913.381.1170 [www.olsson.com](http://www.olsson.com)

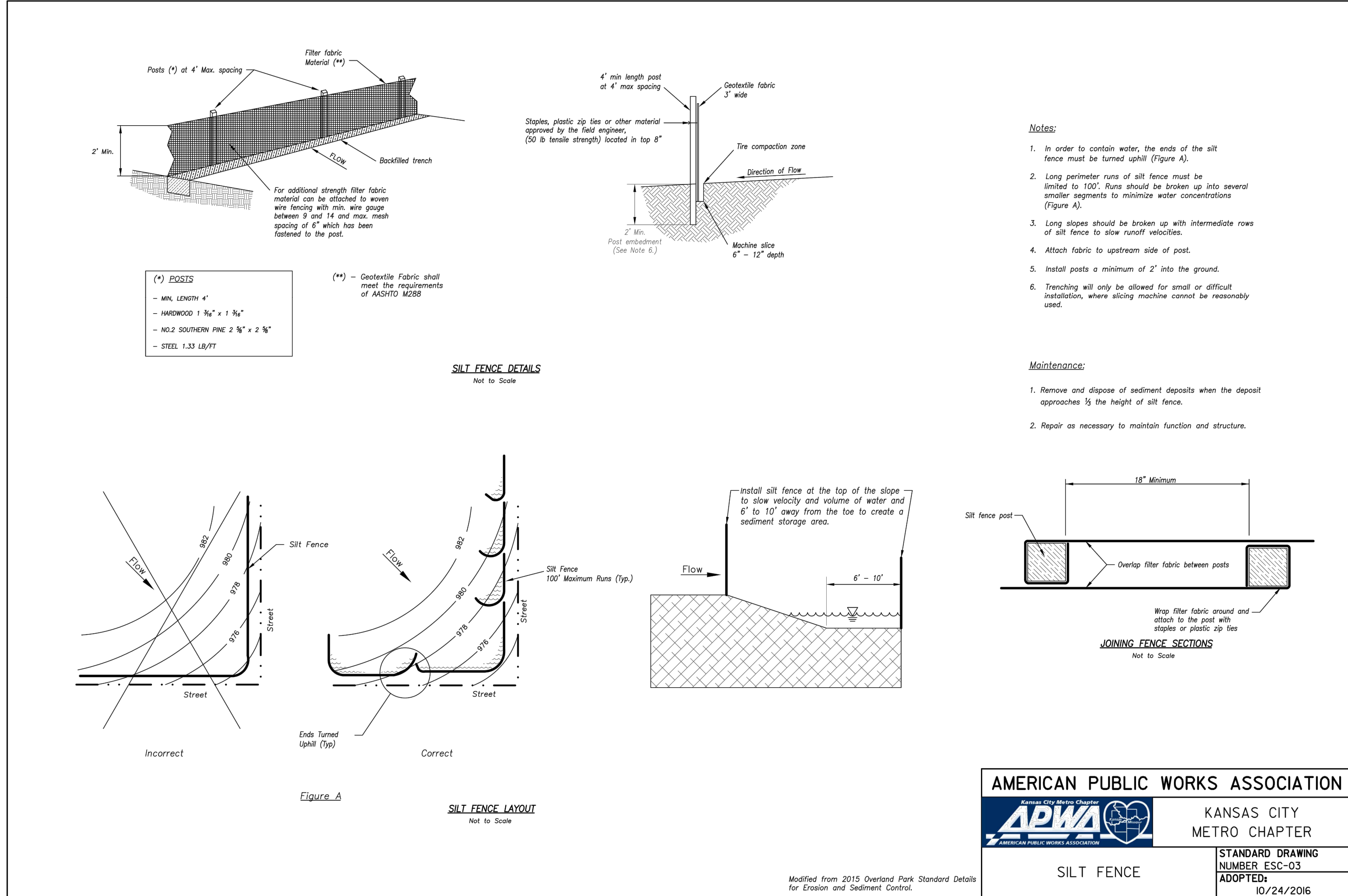
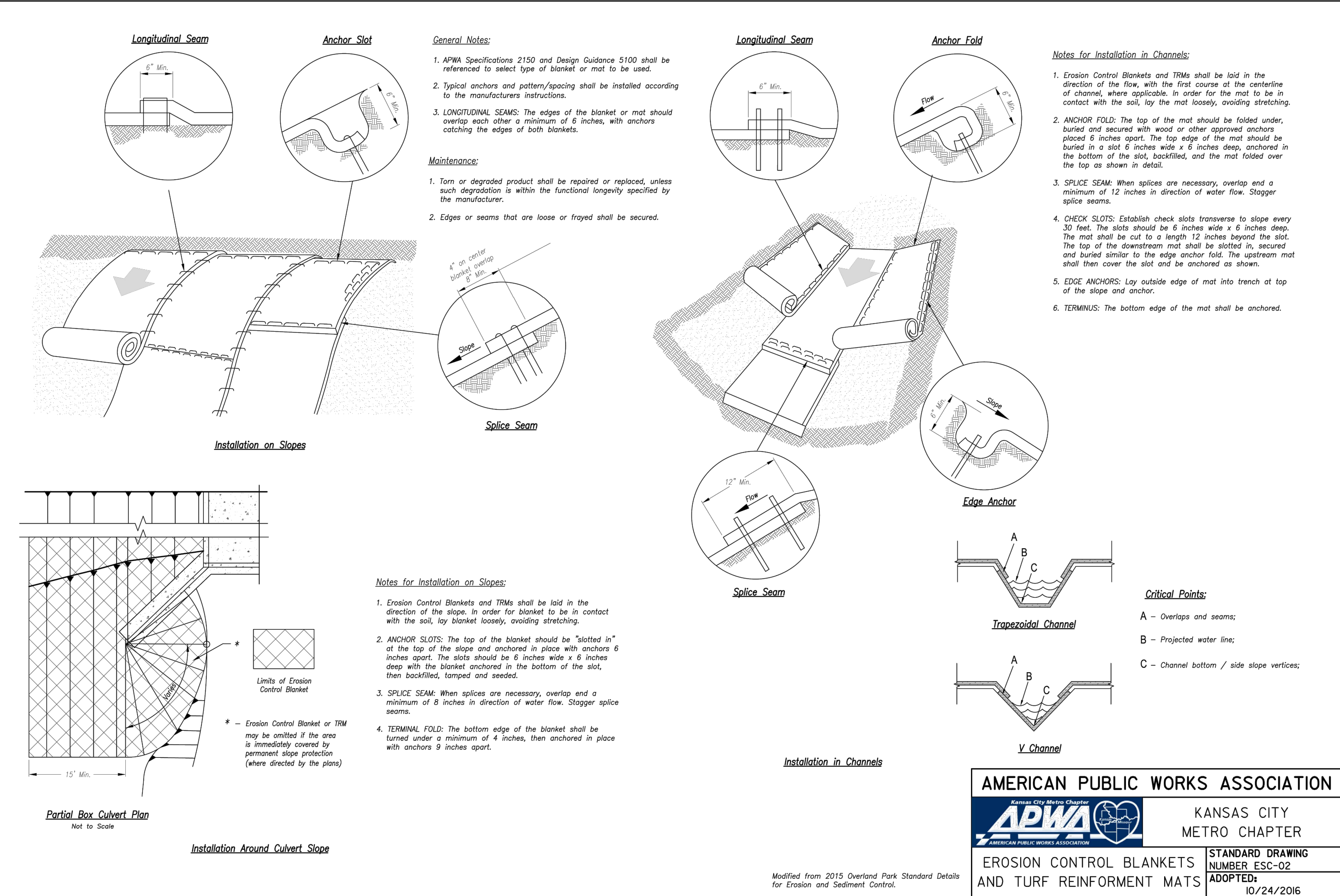
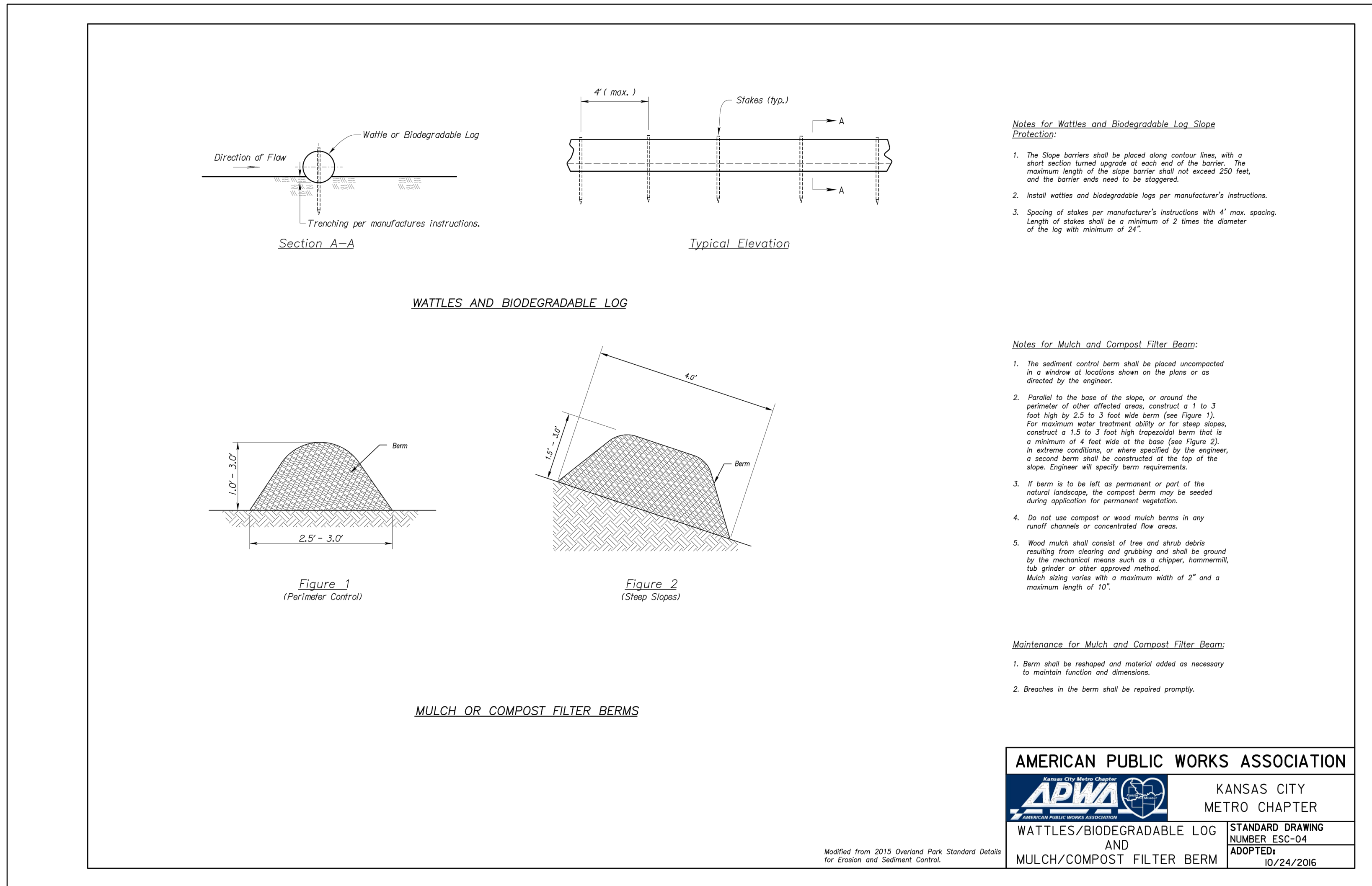
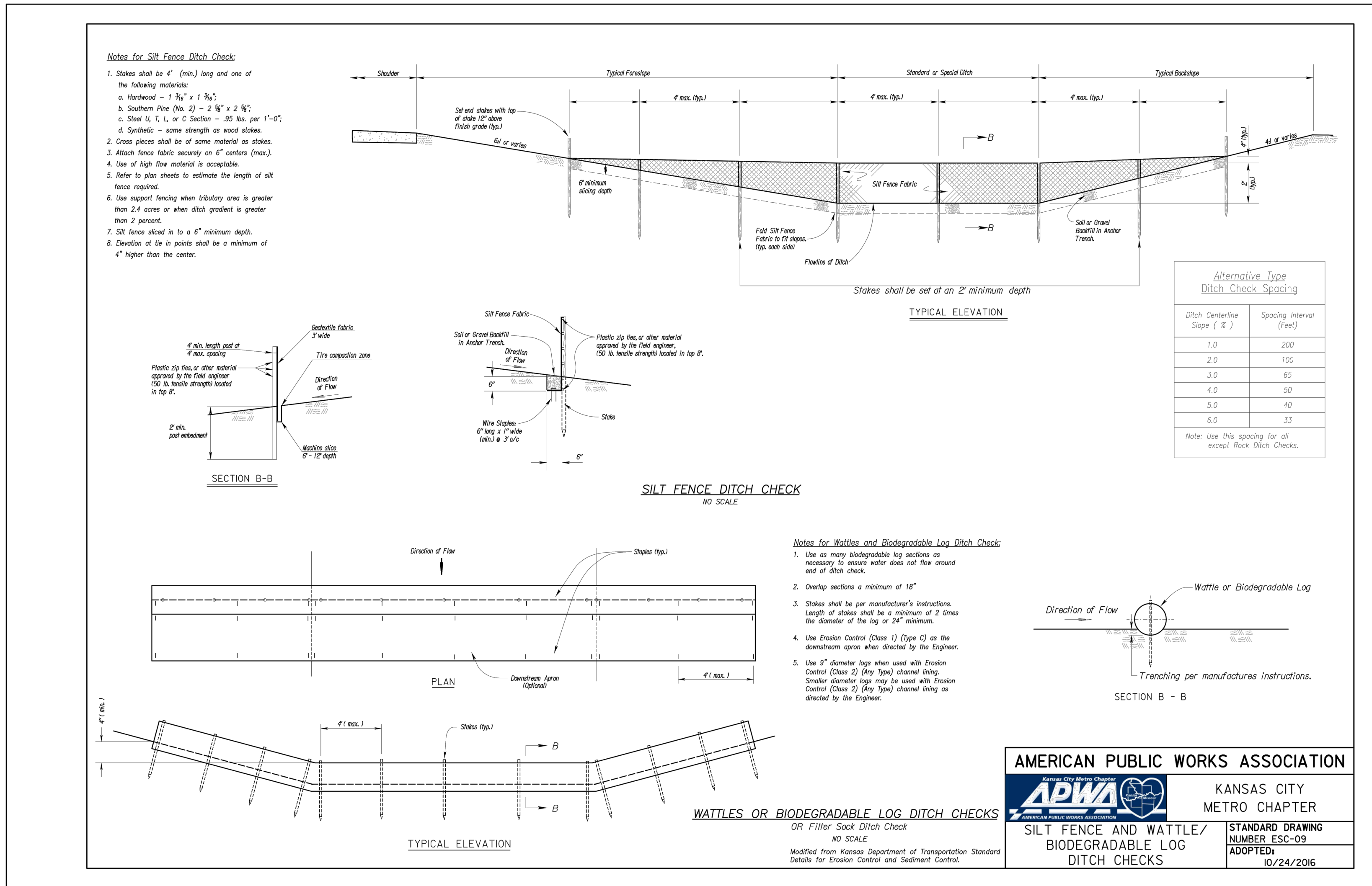
**LEGEND**

-  PROPERTY LINE
-  SURROUNDING PROPERTY LINES
-  EXISTING CONTOUR
-  PROPOSED CONTOUR
-  TEMPORARY SEDIMENT FENCE
-  INSTALL TEMPORARY REINFORCED SILT FENCE SLOPE BARRIER
-  INSTALL TEMPORARY WATTLE/BIODEGRADABLE LOG
-  LIMITS OF DISTURBANCE (15.6 ACRES)
-  DRAINAGE BOUNDARIES
-  TEMPORARY DIVERSION BERM (REFERENCE DETAILS)
-  STABILIZATION, "LANDLOK (S2)" (EROSION CONTROL BLANKET) SHALL BE USED OR APPROVED EQUAL. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. SEED WITH PERENNIAL SEEDING TO MEET SWPPP REQUIREMENTS. INSTALL PER DETAIL AND MANUFACTURER RECOMMENDATIONS.

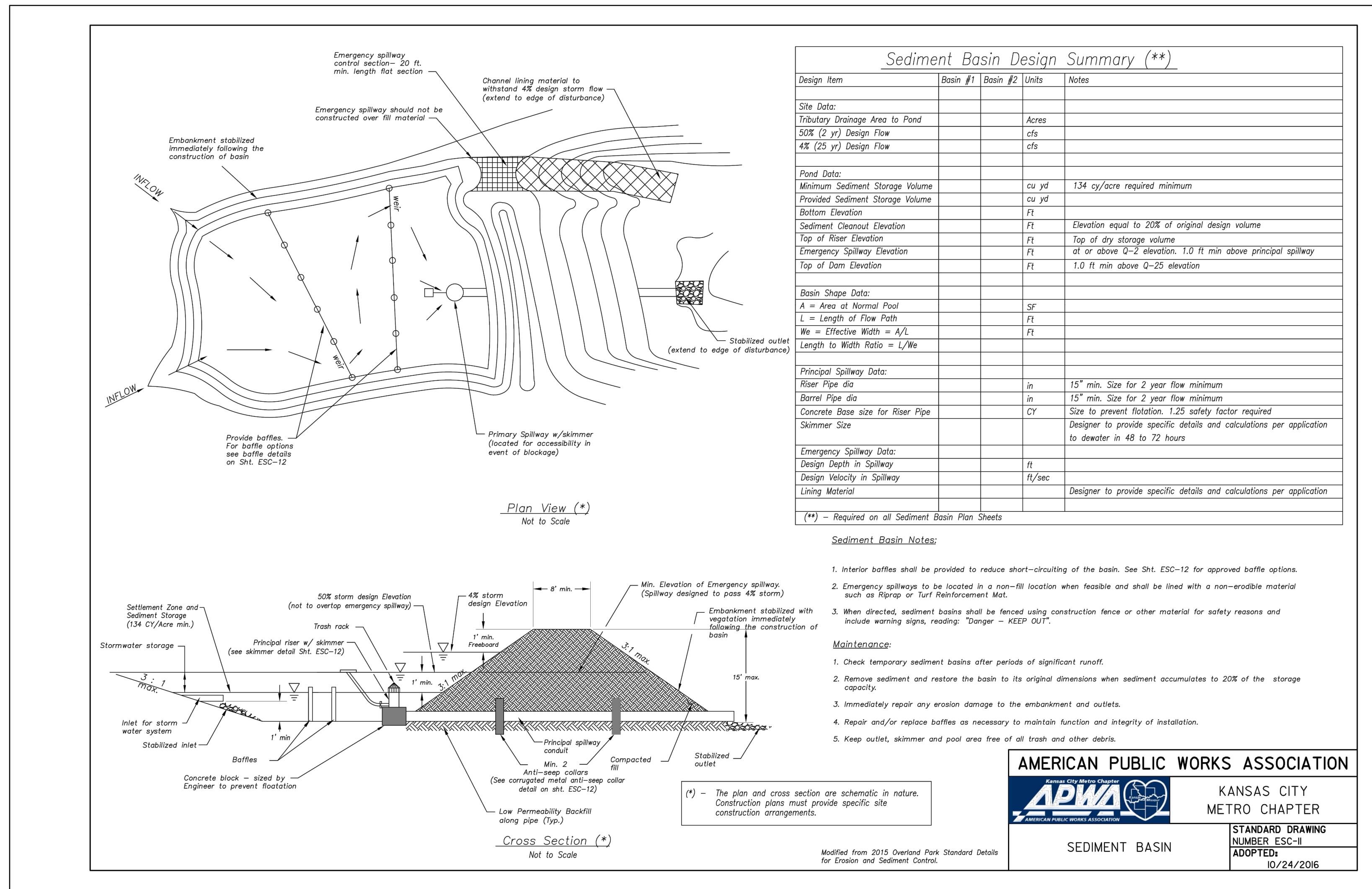
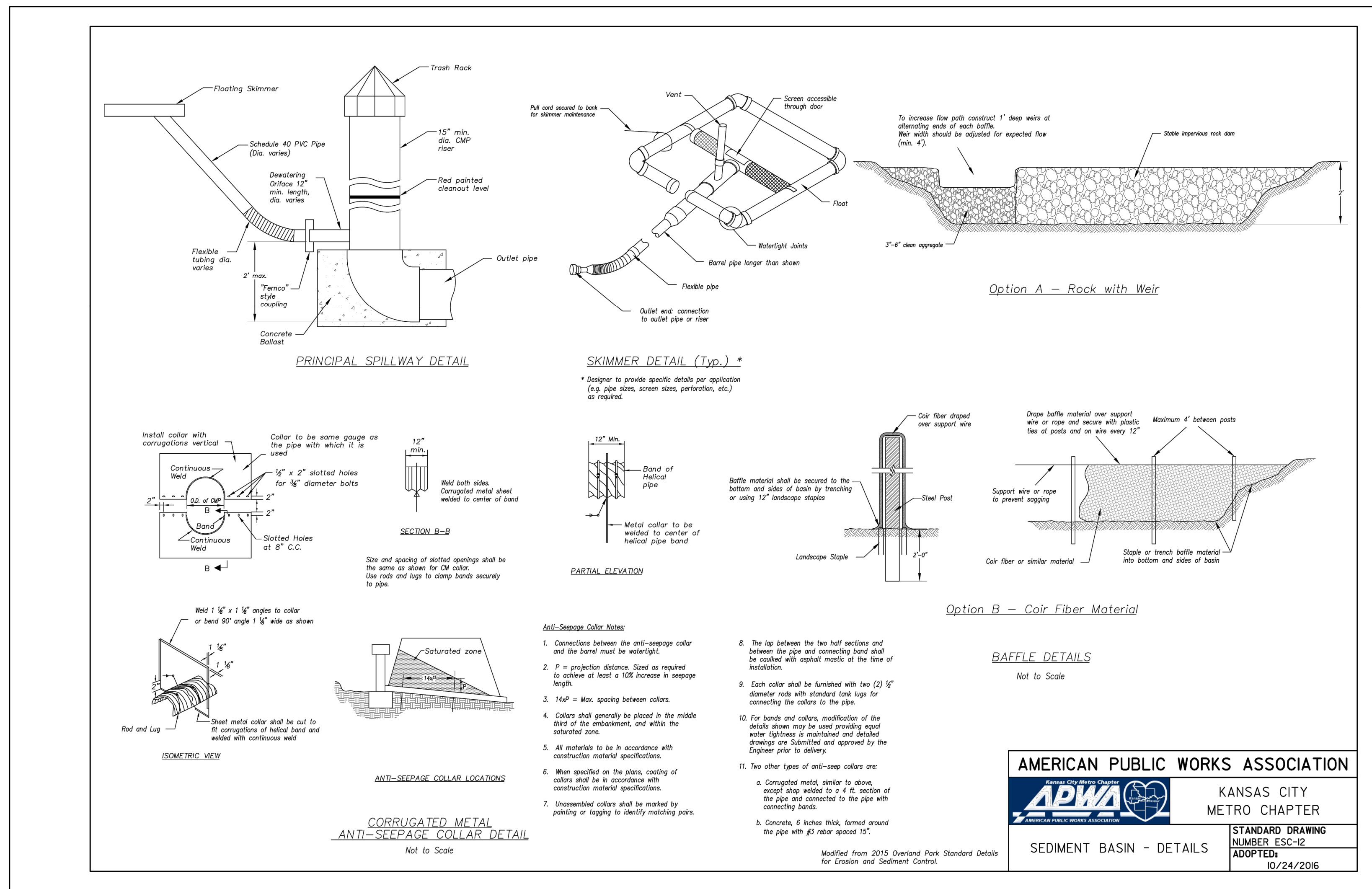




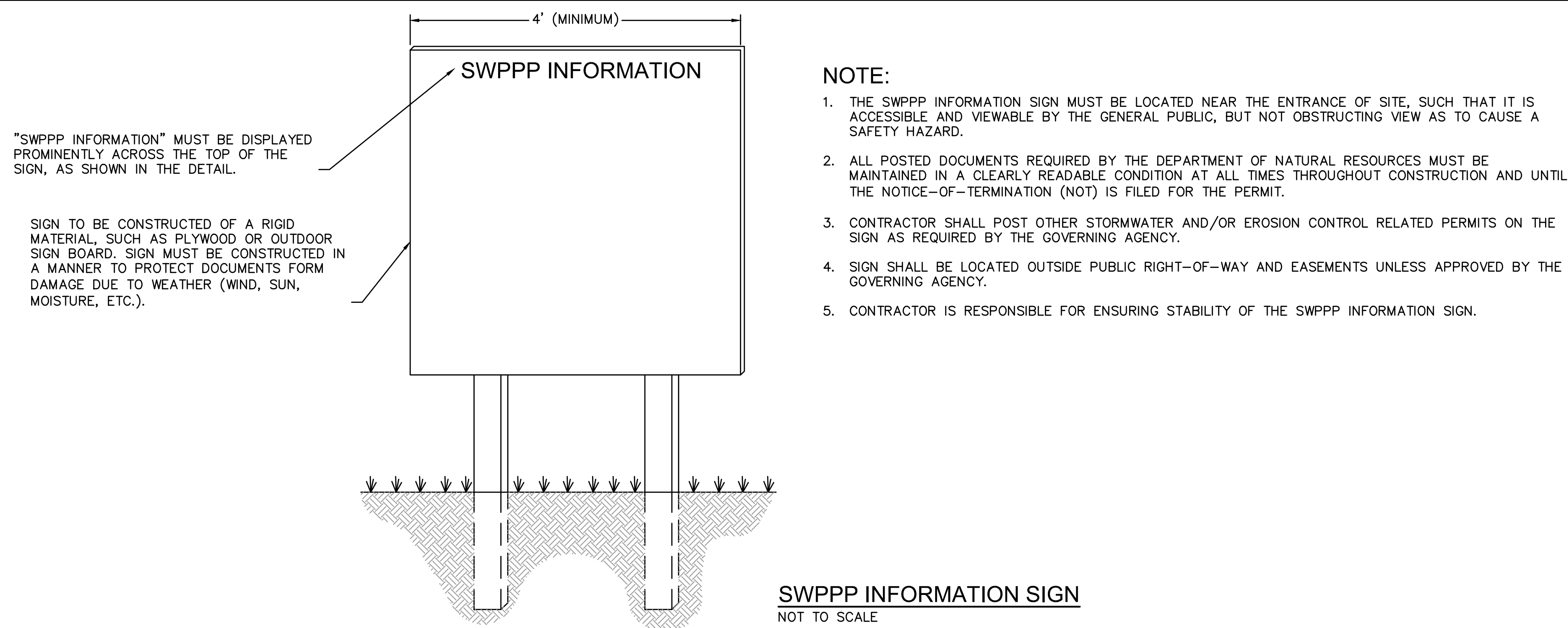






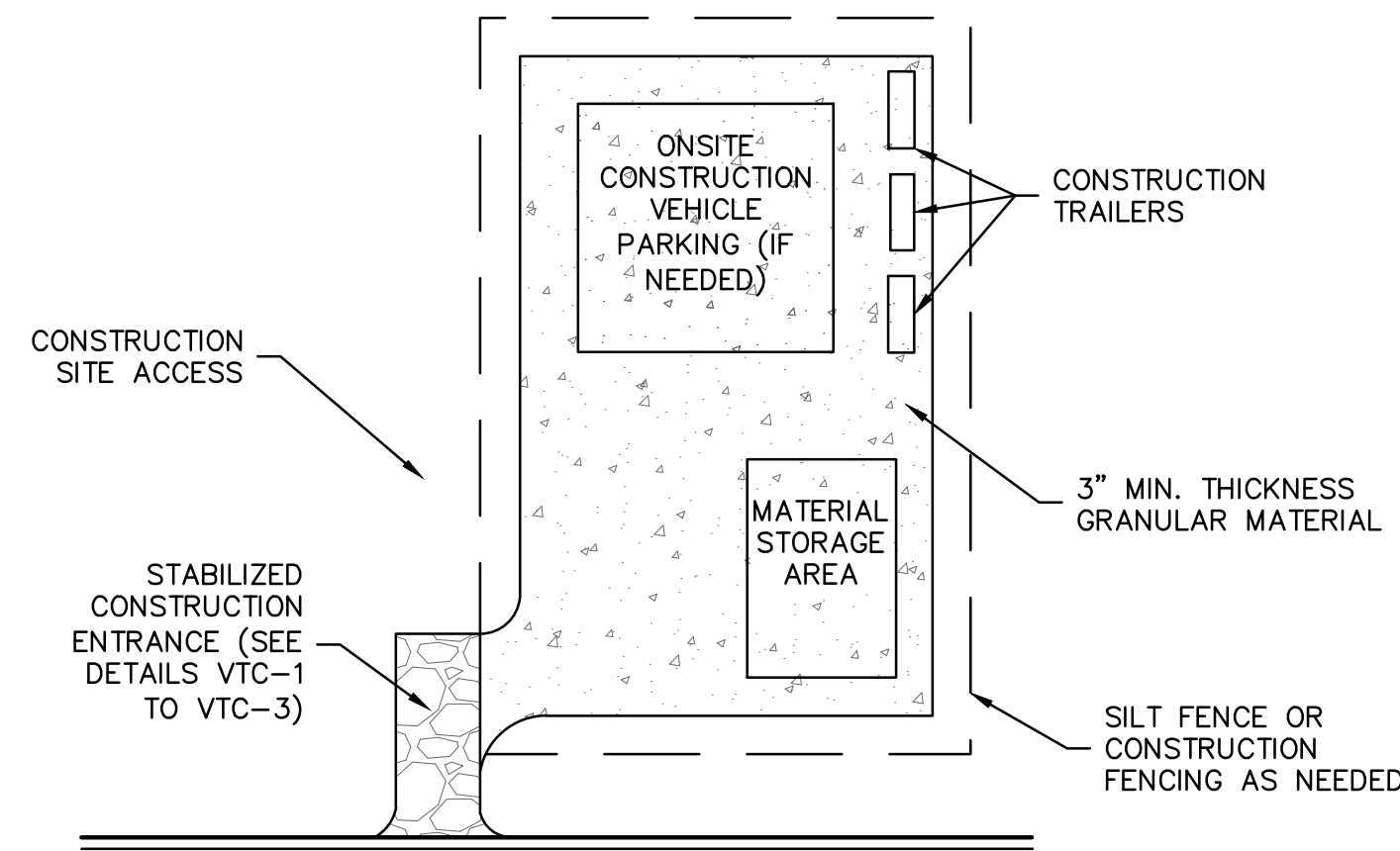


SEDIMENT BASIN DESIGN DATA SUMMARY			
TITLE: Lee's Summit - Building 3			
JOB #: 021-04157-C			
<u>Design Item:</u>	<u>Basin 1</u>	<u>Units</u>	<u>Notes:</u>
<u>Site Data:</u>			
Tributary Drainage Area to Pond:	17.00	Acres	
Disturbed Tributary Drainage Area to Pond:	17.00	Acres	
50% (2 yr) Design Flow:	32.19	cfs	
4% (25 yr) Design Flow:	55.85	cfs	
<u>Pond Data:</u>			
Minimum Sediment Storage Volume:	2278	cu. yd.	134 cy/acre minimum
Provided Sediment Storage Volume:	2409	cu. yd.	134 cy/acre minimum
Bottom Elevation:	954.50	Ft	
Sediment Cleanout Elevation:	956.68	Ft	Elevation Equal to 20% of Original Design Volume.
Top of Riser Elevation:	961.50	Ft	Top of Dry Storage Volume
Emergency Spillway Elevation:	963.00	Ft	at or Above Q-2 elev. 1.0 ft min above principal spillway
Top of Dam Elevation:	964.50	Ft	1.0 ft min above Q-25 elev.
<u>Basin Shape Data:</u>			
A= Area at Normal Pool	15055.00	SF	
L = Length of Flow Path	205.00	Ft	
Wc = Effective Width = A/L	73.44	Ft	
Length to Width Ratio = L/We	2.79		If Length to Width Ratio is less than 2, baffles are required
<u>Principal Spillway Data:</u>			
Riser Pipe Diameter:	36.00	in	15-inch min. Size for 2 year flow minimum
Barrell Pipe Diameter:	24	in	15-inch min. Size for 2 year flow minimum
Concrete Base size for Riser Pipe	5.66	cu. yd.	Size to Prevent Floation. 1.25 safety factor required.
Skimmer Size:	4.00	in	Designer to provide specific details and calculations per application to dewater in 48 to 72 hours
<u>Emergency Spillway Data:</u>			
Design Width of Spillway:	60.00	Ft	
Design Depth in Spillway:	0.49	Ft	Use $Q25y=CsbH^{3/2}$ where $Cs=2.63$ , b is the Width of Spillway
Design Velocity in Spillway:	1.89	Ft/sec	
Lining Material:	LANDLOK S2 ERC	N/A	



- ## EROSION CONTROL NOTES
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION & SEDIMENT CONTROL MEASURES AND PRACTICES THROUGHOUT THE PROJECT. ANY AND ALL FINES ASSOCIATED WITH EROSION CONTROL VIOLATIONS WILL BE THE CONTRACTOR'S RESPONSIBILITY.
  2. EROSION CONTROL IS THE CONTRACTOR'S RESPONSIBILITY. THIS PLAN SHOULD BE USED AS A GUIDE AND REPRESENTS THE MINIMUM EROSION CONTROL DEVICES REQUIRED.
  3. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
  4. CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND REPAIRING ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH RAINFALL EVENT.
  5. THE CONTRACTOR SHALL PROVIDE ANY FURTHER EROSION CONTROL MEASURES IN ADDITION TO THOSE LISTED TO ENSURE THAT SILT WILL NOT LEAVE THE PROJECT CONFINES.
  6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED WITH A HEALTHY STAND OF PERMANENT VEGETATION.
  7. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AT COMPLETION OF CONSTRUCTION.
  8. THE CONTRACTOR SHALL ENSURE THAT ALL DRAINAGE STRUCTURES, FLUMES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
  9. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY STABILIZATION AS REQUIRED.
  10. THE CONTRACTOR SHALL LEAVE THE EROSION CONTROL DEVICES AROUND ALL FIELD INLETS AT THE COMPLETION OF THE PROJECT.
  11. THE CONTRACTOR SHALL PROVIDE AN INGRESS/EGRESS TRACKING PAD FOR VEHICULAR TRAFFIC AT A LOCATION APPROVED BY THE OWNERS REPRESENTATIVE.
  12. ALL EROSION CONTROL DEVICES SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND DESIGN CRITERIA OF THE ENGINEERING DIVISION, DEPARTMENT OF PUBLIC WORKS, CITY OF LEE'S SUMMIT, MISSOURI AND THE MISSOURI DEPARTMENT OF HEALTH & ENVIRONMENT, WATER POLLUTION CONTROL DIVISION, MOST CURRENT EDITIONS.
  13. AT ANY TIME DURING CONSTRUCTION THE CITY ENGINEER MAY REQUIRE ADDITIONAL EROSION/SILTATION CONTROL MEASURES TO BE INSTALLED IN ORDER TO ADDRESS PROBLEM SITUATIONS OBSERVED ON THE SITE. WHEN REQUIRED SUCH MEASURES SHALL BE INSTALLED WITHIN 48 HOURS OF THE CITY ENGINEER'S VERBAL OR WRITTEN ORDER.
  14. PROPOSED CONTOURS SHOWN ARE TO FINISH GRADE AND REFLECT SURFACE ELEVATIONS OF PAVEMENT AND LANDSCAPED AREAS AROUND BUILDINGS. THE CONTRACTOR SHALL ADJUST FOR PAVEMENT AND LANDSCAPED MATERIALS AS REQUIRED.
  15. THE CONTRACTOR SHALL PLACE SEED AND TURF REINFORCEMENT EXCELSIOR BLANKETS (OR OTHER APPROVED EQUAL EROSION CONTROL BLANKETS) ON ALL SLOPES 6:1 AND GREATER.
  16. SEED ALL DISTURBED AREA PER CITY STANDARDS AND SPECIFICATIONS.





SSA-1. STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES

1. SEE PLAN VIEW FOR  
-LOCATION OF STAGING AREA(S)  
-CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM LOCAL JURISDICTION
2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703. AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
6. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

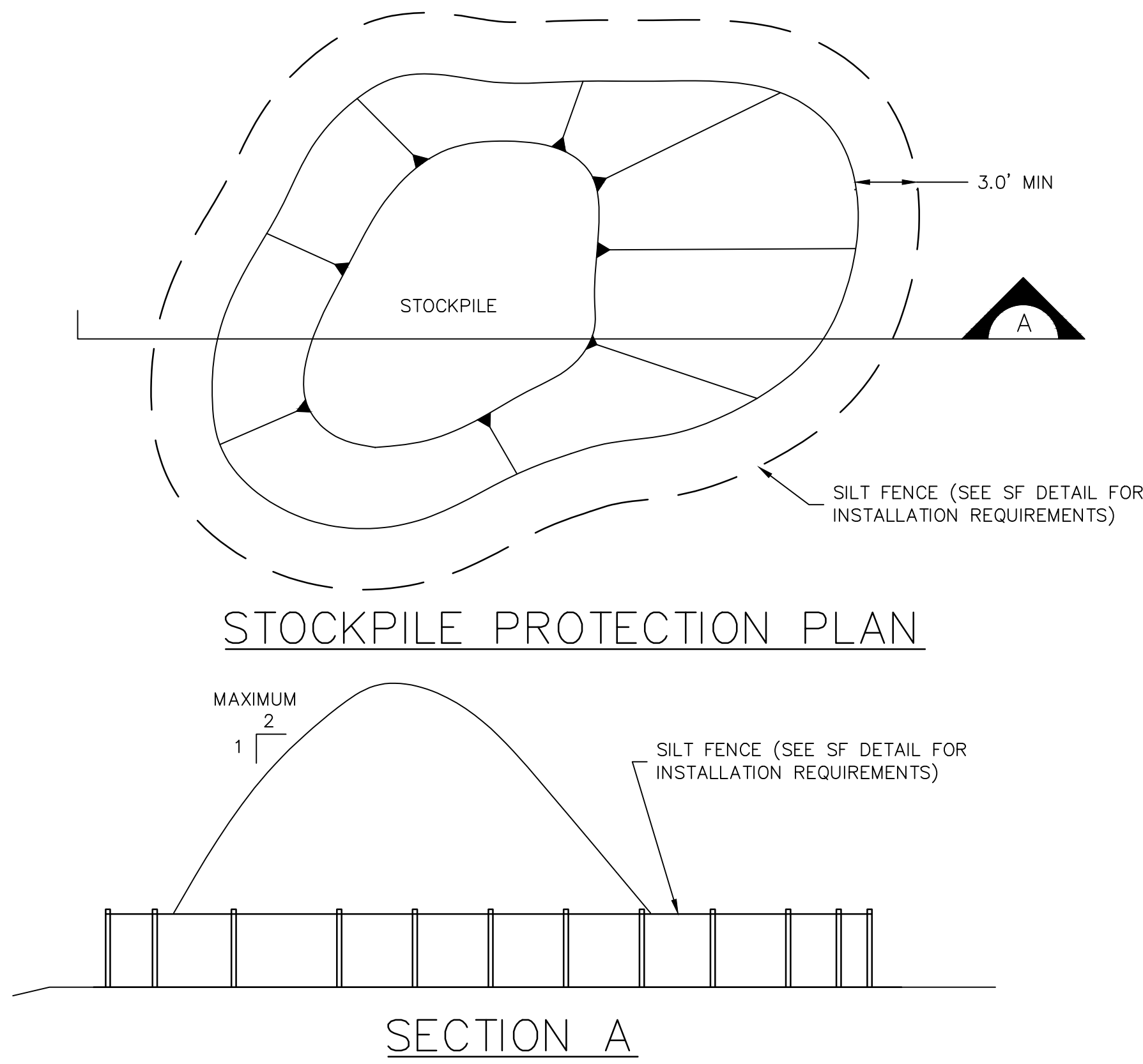
STABILIZED STAGING AREA MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITH 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. ROCK SHALL BE REAPPLIED OR REGARDED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.
5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE AND UNLOADING/LOADING OPERATIONS.
6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO)



URBAN DRAINAGE AND FLOOD CONTROL DISTRICT  
URBAN STORM DRAINAGE CRITERIA MANUAL VOLUME 3

STOCKPILE PROTECTION INSTALLATION NOTES

1. SEE PLAN FOR:  
-LOCATION OF STOCKPILES  
-TYPE OF STOCKPILE PROTECTION
2. INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENTS CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A Pervious OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.
3. STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).
4. FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

STOCKPILE PROTECTION MAINTENANCE NOTES

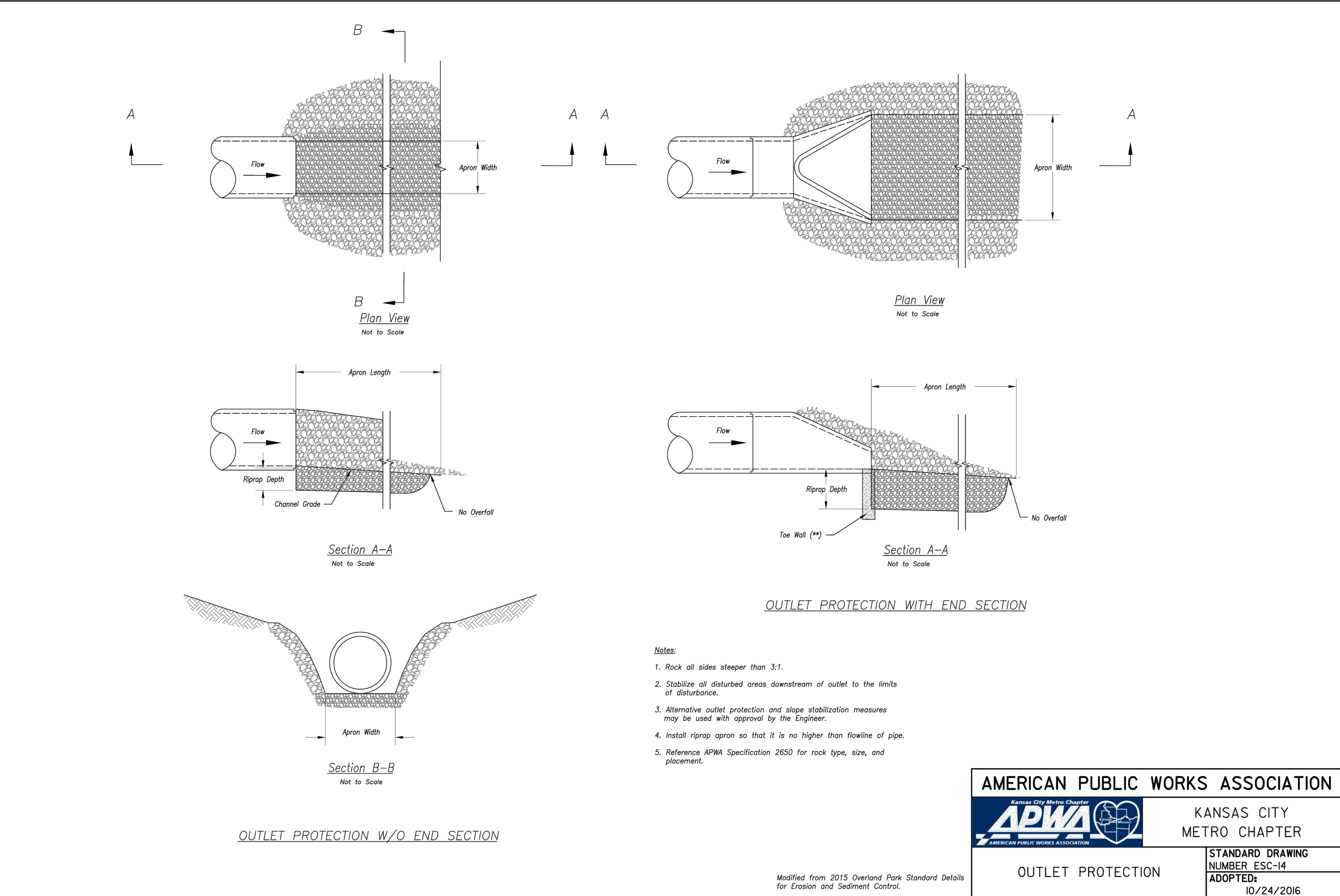
1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

STOCKPILE PROTECTION MAINTENANCE NOTES

4. IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROL BY THE END OF THE WORKDAY.
5. STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.

(DETAILS ADAPTED FROM PARKER, COLORADO)

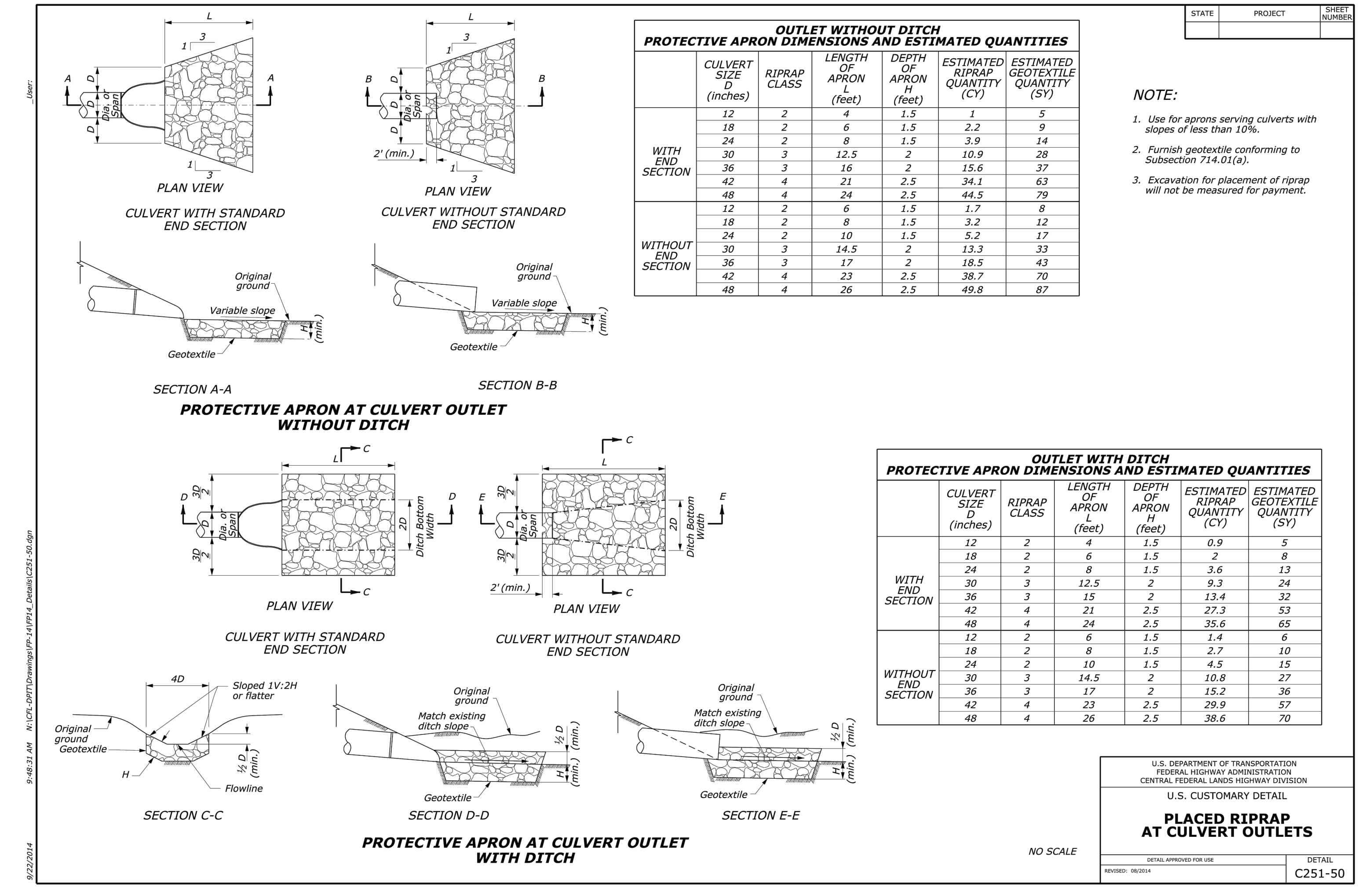
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.



- 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  
STANDARD DRAWING NUMBER ESC-14 ADOPTED 10/24/2016  
OUTLET PROTECTION

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Controls



OUTLET WITHOUT DITCH PROTECTIVE APRON DIMENSIONS AND ESTIMATED QUANTITIES					
	CULVERT SIZE (inches)	RIPRAP CLASS	LENGTH OF APRON (feet)	DEPTH OF APRON (feet)	ESTIMATED RIPRAP QUANTITY (CY)
WITH END SECTION	12	2	1.5	1	5
	18	2	6	1.5	2.2
	24	2	8	1.5	3.9
	30	3	12.5	2	10.9
	36	3	16	2	15.6
	42	4	21	2.5	34.1
WITHOUT END SECTION	12	2	6	1.5	1.7
	18	2	8	1.5	3.2
	24	2	10	1.5	5.2
	30	3	14.5	2	13.3
	36	3	17	2	18.5
	42	4	23	2.5	38.7

- NOTE:
1. Use for aprons serving culverts with slopes of less than 10%.
  2. Furnish geotextile conforming to Subsection 714.01(a).
  3. Excavation for placement of riprap will not be measured for payment.

OUTLET WITH DITCH PROTECTIVE APRON DIMENSIONS AND ESTIMATED QUANTITIES					
	CULVERT SIZE (inches)	RIPRAP CLASS	LENGTH OF APRON (feet)	DEPTH OF APRON (feet)	ESTIMATED RIPRAP QUANTITY (CY)
WITH END SECTION	12	2	4	1.5	0.9
	18	2	6	1.5	2
	24	2	8	1.5	3.6
	30	3	12.5	2	9.3
	36	3	15	2	13.4
	42	4	21	2.5	27.3
WITHOUT END SECTION	12	2	6	1.5	1.4
	18	2	8	1.5	2.7
	24	2	10	1.5	4.5
	30	3	14.5	2	10.8
	36	3	17	2	15.2
	42	4	23	2.5	29.9

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
CENTRAL FEDERAL LANDS HIGHWAY DIVISION  
U.S. CUSTOMARY DETAIL  
PLACED RIPRAP AT CULVERT OUTLETS  
DETAIL NUMBER FOR USE: C251-50



USER: bpayne2

## NO SCALE

1. ALL WORK IN PUBLIC EASEMENTS AND RIGHT-OF-WAY AND ALL EROSION CONTROL WORK MUST COMPLY WITH THE LATEST EDITION OF THE TECHNICAL PROVISIONS & STANDARD DRAWINGS FOR ROADS AND SEWERS LEES SUMMIT, MISSOURI.
2. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, EQUIPMENT, AND LABOR AS NECESSARY TO INSTALL AND MAINTAIN ADEQUATE EROSION CONTROL. KEEP THE STREETS CLEAN OF MUD AND DEBRIS, AND PREVENT SOIL FROM LEAVING THE PROJECT SITE. THE CONTRACTOR'S EROSION CONTROL MEASURES SHALL CONFORM TO LEE'S SUMMIT, MISSOURI TECHNICAL PROVISIONS, SPECIFICATIONS, AND THE PROJECT'S STORMWATER POLLUTION PREVENTION PLAN. A COPY OF WHICH SHALL BE MAINTAINED AND UPDATED ON SITE AT ALL TIMES.
3. CONTRACTOR SHALL INSTALL EROSION CONTROL DEVICES BEFORE STARTING ANY CONSTRUCTION ACTIVITY. REFERENCE PRE-CONSTRUCTION PHASE IN STAGING TABLE.
4. GOOD HOUSEKEEPING, INCLUDING SPILL RESPONSE SHALL BE PERFORMED IN ACCORDANCE WITH THE KANSAS CITY, MISSOURI, AND THE AMERICAN PUBLIC WORKS ASSOCIATION STANDARD SPECIFICATIONS, SECTION 2150.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADDITIONAL EROSION CONTROL MEASURES OR MODIFICATIONS IF THE PLAN FAILS TO SUBSTANTIALLY CONTROL EROSION OR OFFSITE SEDIMENTATION.
6. THE CONTRACTOR SHALL TEMPORARILY SEED, MULCH, OR OTHERWISE STABILIZE ANY DISTURBED AREA WHERE THE LAND DISTURBANCE ACTIVITY HAS CEASED FOR A PERIOD OF FOURTEEN (14) CALENDAR DAYS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL DEVICES AND REMOVING SEDIMENT UNTIL A MINIMUM OF 70% OF PERMANENT VEGETATION HAS BECOME ESTABLISHED AND ESTABLISHED EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE 70% ESTABLISHED VEGETATION IS MET, OR THE DURATION OF THE PROJECT, WHICHEVER IS THE LATER DATE.
8. THE CONTRACTOR SHALL HAVE A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ON SITE AT ALL TIMES. INSPECTION LOGS AND ANY CHANGES TO EROSION CONTROL MEASURES SHALL BE ADDED TO THE SWPPP.
9. REMOVE SEDIMENT AND RESTORE THE SEDIMENT BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO 20% OF THE STORAGE CAPACITY. CONTRACTOR SHALL CLEAN OUT SEDIMENT BASIN BEFORE FINAL GRADING OF DETENTION BASIN AND DRY DETENTION BASINS. CONTRACTOR TO HAVE DETENTION BASIN AND DRY DETENTION BASINS STAKED BEFORE FINAL GRADING. CONTRACTOR SHALL HAVE THE DETENTION BASIN COMPLETED FINAL GRADING, AS-BUILT SHOTS AND VOLUME STORAGE CAPACITY CALCULATIONS SHALL BE PROVIDED TO THE ENGINEER TO CONFIRM COMPLIANCE WITH DESIGN PLANS AND LEES SUMMIT STANDARDS.
10. REMOVE SEDIMENT AND RESTORE THE SEDIMENT TRAP TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO 20% OF THE STORAGE CAPACITY.

157.dwg

LD2.4

—

2022

RI



SCANELL  
PROPERTIES

**olsson**

7301 West 133rd Street, Suite 200  
Overland Park, KS 66213-4750  
TEL 913.381.1170 [www.olsson.com](http://www.olsson.com)