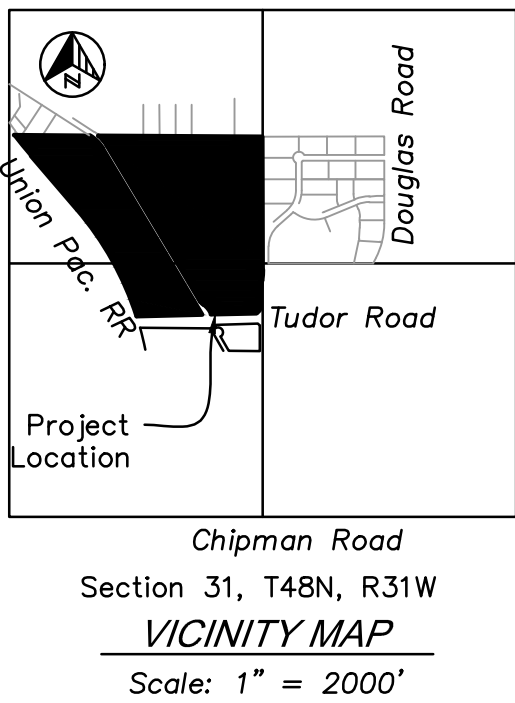


LAND DISTURBANCE PLANS FOR SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS - BUILDING 2

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: 816-969-1200
LEE'S SUMMIT DEVELOPMENT SERVICES:	220 SE GREEN STREET LEE'S SUMMIT, MO 64063 PH: 816-969-1800
LEE'S SUMMIT PUBLIC WORKS:	220 SE GREEN STREET LEE'S SUMMIT, MO 64063 PH: 816-969-1800
LEE'S SUMMIT 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: 816-966-1050 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 CASTILOW 14859 W. 95TH STREET LENEXA, KS 66215 PH: 913-322-9785 EMAIL: JOHNCASTILOW@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@KCPL.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	
SETH REECE/LUKE MOORE MITH PLEAK, PE	7301 W. 133RD STREET SUITE 200 OVERLAND PARK, KS 66213 PH: 913.381.1170
OLSSON	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-8RTE.



LOCATION MAP

NOT TO SCALE

PROPERTY DESCRIPTION

LOT 2, 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 09 DEGREES 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 SLOAN CREEK RIGHT OF WAY, AS ESTABLISHED IN DOCUMENT 201300070530, CONTAINING 3.439,836 SQUARE FEET OR 78.9677 ACRES, MORE OR LESS, 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 8 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 EAST LINE OF SAID SOUTHWEST QUARTER, A DISTANCE OF 103.00 FEET TO A POINT OF TANGENCY; THENCE SOUTH 07 DEGREES 14 MINUTES 57 SECONDS WEST, ON A 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 103.32 FEET TO A POINT OF TANGENCY; THENCE SOUTH 01 DEGREE 59 MINUTES 47 SECONDS WEST, CONTINUING ON SAID WEST LINE, A DISTANCE OF 69.49 FEET TO A POINT OF TANGENCY; THENCE SOUTH 01 DEGREE 59 MINUTES 47 SECONDS WEST, CONTINUING ON SAID WEST LINE, A DISTANCE OF 69.49 FEET TO A POINT OF TANGENCY; THENCE DEPARTING SAID WEST LINE, ON SAID NORTH LINE, A DISTANCE OF 46.09 FEET TO A POINT; THENCE NORTH 09 DEGREES 24 MINUTES 16 SECONDS WEST, CONTINUING ON SAID NORTH LINE, AND ON THE NORTH LINE OF NW TUDOR ROAD RIGHT OF WAY, AS ESTABLISHED IN DOCUMENT 201300070530, A DISTANCE OF 1249.23 FEET TO A POINT ON THE NORTH LINE OF SAID TUDOR ROAD RIGHT OF WAY, CONTAINING 3.439,836 SQUARE FEET OR 78.9677 ACRES, MORE OR LESS, CONTINUING ON SAID NORTH LINE IN THE NORTH-WESTERLY DIRECTION, DEPARTING SAID NORTH LINE, ON SAID EAST LINE AND ON A CURVE TO THE LEFT WHOSE INITIAL TANGENT BEARS NORTH 15 DEGREES 46 MINUTES 27 SECONDS WEST, HAVING A RADIUS OF 3203.90 FEET, 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 338.40 FEET TO A POINT OF CURVATURE; THENCE NORTH 38 DEGREES 34 MINUTES 39 SECONDS WEST, CONTINUING ON SAID EAST LINE, A DISTANCE OF 338.40 FEET TO A POINT OF TANGENCY; THENCE NORTH 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, A DISTANCE OF 1318.02 FEET TO A POINT OF TANGENCY; THENCE SOUTH 87 DEGREES 40 MINUTES 30 SECONDS EAST, CONTINUING ON SAID NORTH LINE, A DISTANCE OF 1318.02 FEET TO A POINT OF TANGENCY; THENCE SOUTH 87 DEGREES 40 MINUTES 30 SECONDS EAST, CONTINUING ON SAID NORTH LINE, A DISTANCE OF 1318.02 FEET TO A POINT OF BEGINNING, CONTAINING 3,439,836 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
LD1.5	SEDIMENT BASIN #2 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

1. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL UTILITIES PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "1-800-DIG-RITE", (800)344-7483 OR 811 AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. I-HSTOP!! CALL BEFORE YOU DIG!!

2. THE CONTRACTOR SHALL NOT CHANGE OR DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER AND ENGINEER.

3. ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

4. ALL ESTIMATES OF QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL QUANTITIES AND FOR BRINGING THE PROJECT TO THE LINES AND GRADES SHOWN HEREIN. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS REQUIRED TO FULFILL THE PLANS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE EARTHWORK QUANTITIES AND TO ACCOUNT FOR HAUL IN OR HAUL OFF OF MATERIAL AS NECESSARY TO MEET THE LINES AND GRADES OF THE PLANS EVEN IF QUANTITY ESTIMATES ARE SHOWN WITHIN THESE DOCUMENTS. NO ADDITIONAL PAYMENTS WILL BE MADE FOR IMPORT OR EXPORT OF MATERIAL OR FOR ADJUSTMENTS TO QUANTITY ESTIMATES.

5. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST STANDARDS AND SPECIFICATIONS OF THE AMERICAN PUBLIC WORKS ASSOCIATION - KANSAS CITY METROPOLITAN CHAPTER (APWA-KC) AND THE CITY OF LEE'S SUMMIT, MO, EXCEPT WHERE SHOWN OTHERWISE. NOTIFY ENGINEER OF DISCREPANCIES.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, PAYING ALL FEES AND FOR OTHERWISE COMPLYING WITH ALL APPLICABLE REGULATIONS GOVERNING THE WORK.

7. THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF MISSOURI STATE LAW WHICH REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM UTILITY COMPANIES.

8. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED.

9. THE CONTRACTOR SHALL LIMIT THE REMOVAL OF TREES TO THE LIMITS OF DEMOLITION SHOWN ON THE DEMOLITION PLAN.

10. CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.

11. ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR.

12. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS ARE TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF SURFACE EROSION DURING CONSTRUCTION AND UNTIL THE OWNER ACCEPTS THE WORK AS COMPLETE. EROSION CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, THE SILT FENCES AND GRAVEL FILTER BAGS SHOWN ON THE EROSION CONTROL PLAN SHALL BE IN PLACE FOR THE DURATION OF THE SITE IMPROVEMENTS.

14. ALL HDPE PIPE SHALL BE ADS (N-12) OR APPROVED EQUAL, AND CONFORM TO AASHTO M294 SPECIFICATIONS. ALL PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

15. IF PRECAST CONCRETE STORM SEWER STRUCTURES ARE TO BE USED ON THIS PROJECT, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND HAVE THEM APPROVED BY THE ENGINEER PRIOR TO FABRICATION OF THE STRUCTURES. FAILURE TO DO SO SHALL BE CAUSE FOR REJECTION.

19. EXISTING TOPSOIL SHALL BE STRIPPED TO A POINT WHERE ALL VEGETATION IS REMOVED. REFER TO CITY STANDARDS.

20. THE CONTRACTOR SHALL, BY HIS OWN INVESTIGATION, AND PRIOR TO COMMENCING WORK, SATISFY HIMSELF AS TO THE SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED.

21. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL BOUNDARY CORNERS AND SECTION CORNERS. ANY BOUNDARY CORNER AND/OR SECTION CORNER DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE RESET BY A LAND SURVEYOR LICENSED IN THE STATE OF MISSOURI, AT THE CONTRACTOR'S EXPENSE.

22. NO FEDERALLY OWNED MAILBOX MAY BE DISTURBED. THE CONTRACTOR SHALL GIVE AT LEAST TWENTY-FOUR (24) HOURS ADVANCE NOTICE TO THE MANAGER OF DELIVERY AND COLLECTIONS. TAMPERING WITH FEDERAL MAIL FACILITIES MAY SUBJECT THE CONTRACTOR TO PROSECUTION BY THE FEDERAL GOVERNMENT.

23. THE CONTOUR LINES SHOWN ARE FOR MASS GRADING PURPOSES.

24. EXISTING CONTOURS REPRESENT MASS FINISH GRADE ELEVATIONS.

25. THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL UNLESS OTHERWISE SHOWN BY CONTOURS OR SPOT ELEVATIONS.

26. THE CONTRACTOR SHALL GRADE LANDSCAPED AREAS TO PROVIDE POSITIVE DRAINAGE IN THE BORROW AREA.

27. THE CONTRACTOR SHALL MAKE HIS OWN ASSUMPTIONS ON THE LOCATION AND CONSISTENCY OF ANY EXISTING ROCK LAYERS UNDERLYING THE PROJECT SITE. ALL ROCK EXCAVATION AND REMOVAL SHALL BE INCLUDED IN THE CONTRACTORS' BID.

28. CONTRACTOR TO FIELD VERIFY ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES AND INFRASTRUCTURE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN PLANS AND FIELD CONDITIONS.

29. BY ACCEPTING AND UTILIZING ANY ELECTRONIC FILE OF ANY DRAWING, REPORT OR DATA TRANSMITTED BY OLSSON (OLSSON), THE RECIPIENT AGREES FOR ITSELF, ITS SUCCESSORS, ASSIGNS, INSURERS AND ALL THOSE CLAIMING UNDER OR THROUGH IT, THAT BY USING ANY OF THE INFORMATION CONTAINED IN THE ELECTRONIC FILE, ALL USERS AGREE TO BE BOUND BY THE FOLLOWING TERMS. ALL OF THE INFORMATION CONTAINED IN THIS ELECTRONIC FILE IS THE PROPERTY OF OLSSON AND THE INFORMATION NEEDS TO BE PROTECTED BY THE RECIPIENT. THE RECIPIENT SHALL NOT RETRANSMIT THE ELECTRONIC FILE, OR ANY PORTION THEREOF, WITHOUT INCLUDING THIS DISCLAIMER AS PART OF ANY SUCH TRANSMISSION. IN ADDITION, THE RECIPIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS OLSSON, ITS OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS AGAINST ANY AND ALL DAMAGES, LIABILITIES, CLAIMS OR COSTS, INCLUDING REASONABLE ATTORNEY'S AND EXPERT WITNESS FEES AND DEFENSE COSTS, ARISING FROM ANY CHANGES MADE BY ANYONE OTHER THAN OLSSON OR FROM ANY REUSE OF THE ELECTRONIC FILES WITHOUT THE PRIOR WRITTEN CONSENT OF OLSSON.

30. DESIGN PROFESSIONAL SHALL REVIEW SHOP DRAWINGS OR SAMPLES FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPTS ON THE PROJECT AND FOR ACCURACY OF INFORMATION GIVEN IN THE CONTRACT DOCUMENTS, AND SHALL NOT EXTEND TO MEANS OR METHODS OF CONSTRUCTION. THE DESIGN PROFESSIONAL'S REVIEW SHALL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ANY VARIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS UNLESS CONTRACTOR HAS IN WRITING CALLED DESIGN PROFESSIONAL'S ATTENTION TO EACH SUCH VARIATION AT THE TIME OF SUBMISSION, AND DESIGN PROFESSIONAL HAS GIVEN WRITTEN APPROVAL OF EACH SUCH VARIATION BY SPECIFIC WRITTEN NOTATION THEREOF INCORPORATED INTO OR APPROPRIATELY REVISIONED THE SAMPLE, NOR WILL ANY APPROVAL BY THE DESIGN PROFESSIONAL RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS WITH CONFORMANCE TO CONTRACT DOCUMENTS.

31. GENERAL CONSTRUCTION NOTE REGARDING SEQUENCING OF EROSION CONTROL - ALL PERIMETER SILT FENCE, EARTH DIKES, SEDIMENT BASINS, AND ROCK CONSTRUCTION ENTRANCES WILL BE INSTALLED BEFORE GRADING OPERATIONS BEGIN, EXCEPT THAT SILT FENCE WHICH IS TO BE PLACED ALONG THE BACK OF CURB FOR PROTECTION OF THE STREET, SILT FENCE AND EARTH DIKES THAT ARE PLACED BEFORE GRADING BEGINS WILL BE MAINTAINED BY THE GRADING CONTRACTOR UNTIL ALL UTILITIES ARE IN PLACE. THE SILT FENCE THAT IS PLACED ALONG THE BACK OF THE CURB OR RIGHT -OF-WAY WILL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION BEGINS AND REMOVED AS SOON AS THE GRADING AND SEDIMENTATION CONTROLS ARE TEMPORARY AND MUST BE REMOVED BY THE CONTRACTOR AFTER CONSTRUCTION IS COMPLETE AND THE DISTURBED AREA IS AT LEAST 70% PERMANENTLY VEGETATED.

32. HANDICAP PARKING STALLS SHALL BE SIGNED WITH CITY/ADA APPROVED SIGNAGE AND CONSTRUCTED IN STRICT ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE APWA-KC, CITY OF LEE'S SUMMIT, MO, ADA STANDARDS, AND SHALL NOT EXCEED 2.00 PERCENT IN ANY DIRECTION. A MAXIMUM SIDEWALK HAVE A MAXIMUM CROSS SLOPE OF 2 PERCENT AND A MAXIMUM LONGWALD SLOPE OF 5 PERCENT AND ADA RAMP HAVE A MAXIMUM CROSS SLOPE OF 2 PERCENT AND A MAXIMUM LONGWALD SLOPE OF 8.33 PERCENT.

33. ALL WATER LINES SHALL BE INSTALLED PER THE LATEST STANDARDS AND SPECIFICATIONS OF THE APWA-KC AND THE CITY OF LEE'S SUMMIT, MO. ALL WATER LINES SHALL BE A MINIMUM OF 48 INCHES BELOW THE FINISHED GRADE ELEVATIONS SHOWN HEREIN.

34. ALL WATER LINES SHALL BE INSTALLED PER CITY STANDARDS. ALL WATER LINES SHALL BE A MINIMUM OF 48 INCHES BELOW THE FINISHED GRADE ELEVATIONS SHOWN HEREIN.

35. ALL EXTERIOR CONCRETE SHALL BE KCMWB-4K AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI, SHALL MEET KCMWB STANDARDS AND SPECIFICATIONS, AND SHALL BE AIR ENTRAINED. FLYASH IS NOT A SUITABLE REPLACEMENT FOR PORTLAND CEMENT.

36. ALL ON-SITE WIRING AND CABLES SHALL BE PLACED UNDERGROUND.

37. CONCRETE PAVEMENT JOINTS SHALL BE CONSTRUCTED AS FOLLOWS (REFER TO HARDCAPE PLANS FOR SPECIFIC TREATMENT OF THESE AREAS):

A. CONTROL JOINTS SPACED AT INTERVALS NOT GREATER THAN 12 FEET AND TOOLED TO 1/3 THE SLAB THICKNESS.

B. CONSTRUCTION JOINTS AT THE END OF EACH POUR AND WHEN PAVING OPERATIONS ARE SUSPENDED FOR 30 MINUTES OR MORE.

C. ISOLATION JOINTS PLACED WHERE THE PAVEMENT ABUTS THE BUILDING, DRAINAGE STRUCTURES AND OTHER FIXED STRUCTURES, CONSTRUCTED WITH A 1/2" NONEXTRUDING FILLER, CLOSED-CELL FOLSSUMN RUBBER OR A BITUMEN-TREATED FIBER-BOLSSONMD, AND WITH A THICKENED EDGE, INCREASED BY 20 PERCENT, TAPERED TO THE REGULAR THICKNESS IN 5 FEET.

D. ALL EXPANSION JOINTS SHALL BE FILLED AND SEALED WITH A PLASTIC JOINT SEALANT MATERIAL.

38. TELEPHONE AND COMMUNICATION SERVICE ROUTING AND CONDUITS NOT SHOWN ON PLANS. CONTRACTOR SHALL INSTALL NECESSARY CONDUIT PRIOR TO PAVEMENT INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING AND INSTALLATION SLOPE WITH SERVICE PROVIDER.

39. ANY CONTRACTOR BIDDING ANY PORTION OF THIS WORK SHALL HAVE IN HIS OR HER POSSESSION A COMPLETE SET OF CONSTRUCTION DOCUMENTS AND BE FAMILIAR WITH ALL SCOPES OF WORK AND TRADES TO UNDERSTAND THEIR INTERACTIONS.

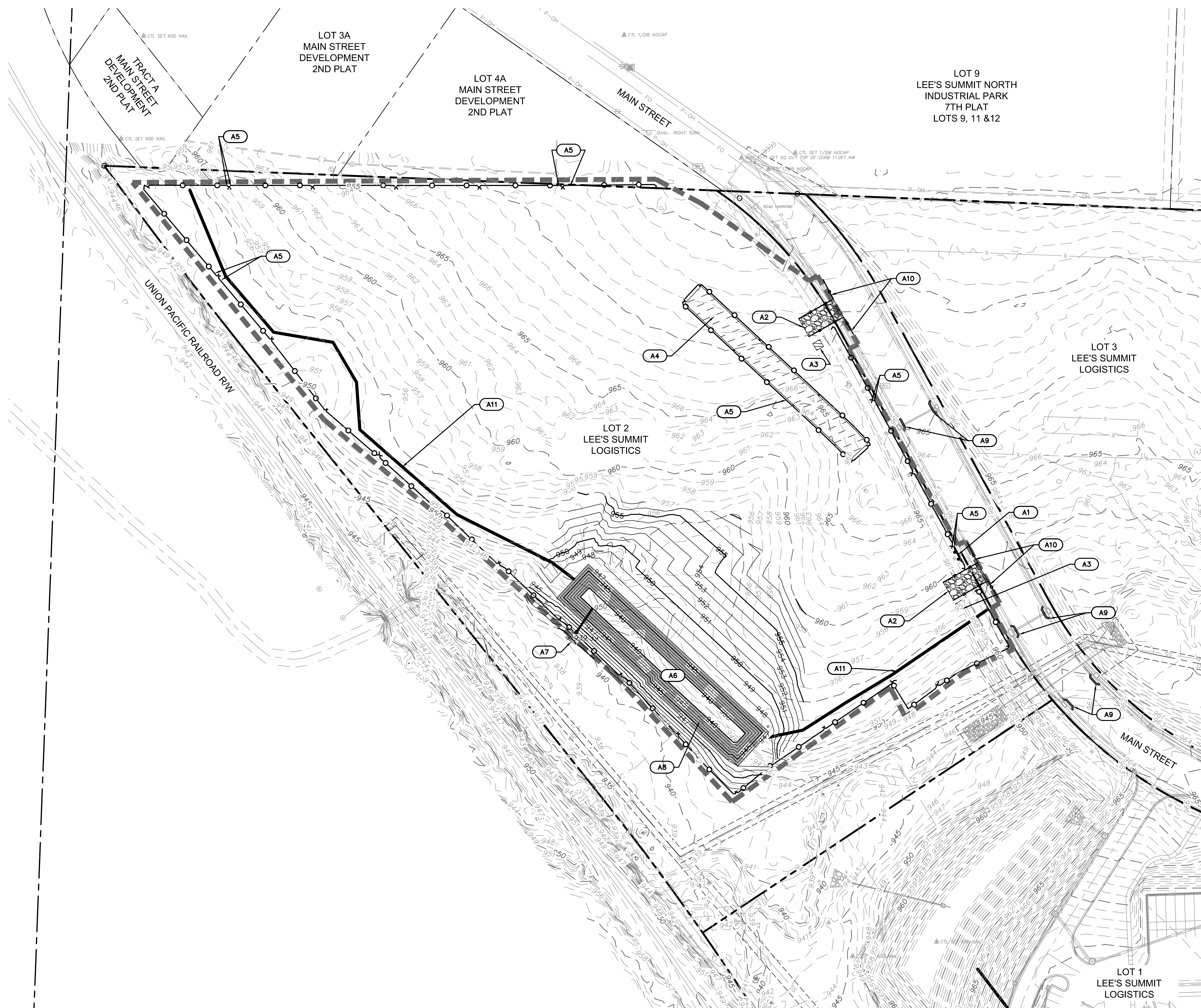
37. EXISTING TOPSOIL SHALL BE STRIPPED TO A POINT WHERE ALL VEGETATION IS REMOVED. REFER TO THE GEOTECHNICAL REPORT PROVIDED BY OLSSON DATED 01/09/2019 AND ALL ADDENDUMS.

38. SITE PREPARATION, GRADING AND EXCAVATION PROCEDURES SHALL CONFORM TO THE RECOMMENDATIONS AS OUTLINED IN THE GEOTECHNICAL REPORT PREPARED BY OLSSON DATED 01/09/2019 AND ALL ADDENDUMS.

1. CONTRACTOR TO PRESERVE ALL SURVEY CONTROL.
2. CONTRACTOR TO COMPLETE DEMOLITION PER THE INTENT OF THESE PLANS AND PROPOSED IMPROVEMENTS.
3. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE ENGINEER MAKES NO GUARANTEES THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE ENGINEER HAS NOT PHYSICALLY LOCATED ALL SUCH UTILITIES. THIS INCLUDES PRIVATE AND PUBLIC UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT MISSOURI ONE CALL AT 1-800-344-7483 IN ADVANCE OF ANY EXCAVATION TO COORDINATE UTILITY LOCATIONS.
4. CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER EXISTING LINES NOT OF RECORD OR SHOWN ON THESE PLANS.
5. REMOVAL AND DISPOSAL OF BUSHES AND TREES SMALLER THAN 6" IN DIAMETER SHALL BE CONSIDERED A SUBSIDIARY TO THE PRICE BID FOR CLEARING AND GRUBBING.
6. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OFF SITE BY THE CONTRACTOR.
7. DO NOT DISRUPT UTILITY SERVICE TO ADJACENT BUSINESSES OR RESIDENCES WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER.
8. DO NOT DISRUPT TRAFFIC ON ADJACENT PUBLIC STREETS WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY.
9. ALL SIDEWALK AND PAVEMENT TO REMAIN SHALL BE PROTECTED IN PLACE INCLUDING PROTECTION FROM DAMAGE CAUSED BY REMOVAL OF ADJUTING PAVEMENT. CONTRACTOR SHALL SAW CUT WHERE NECESSARY.
10. CONTRACTOR SHALL GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DISSECTION, DEMOLITION, AND REMOVAL OF SERVICE LINES. CAP ALL LINES BEFORE PROCEEDING WITH WORK ON THIS CONTRACT.
11. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANIES WORK FORCE AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES.
12. CONTRACTOR SHALL PROTECT THE PUBLIC AT ALL TIME WITH CHAINING, BARRICADES, ENCLOSURES, ETC. TO THE BEST PRACTICES AND AS APPROVED BY THE ENGINEER AND THE CITY.
13. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
14. DEMOLITION OF BUILDINGS SHALL INCLUDE THE BUILDING STRUCTURE, PAD, FOOTINGS, FOUNDATIONS, BASEMENT WALLS, BASEMENT FLOORS, TRUCK DOCKS, STEPS, DECKS, ALL ITEMS REMAINING IN BUILDING, ALL BUILDING UTILITY SERVICES, SIDEWALKS AND PAVEMENT, AND ALL REMAINING REMAINING EXCAVATIONS, BASEMENTS AND TRENCHES PER SPECIFICATIONS.
15. ALL LIGHT POLE DEMOLITION SHALL INCLUDE FIXTURES, BASES AND WIRING.
16. ALL UTILITY DEMOLITION SHALL INCLUDE METERS, MANHOLES AND OTHER STRUCTURES ASSOCIATED WITH THE UTILITY SERVICE LINE.



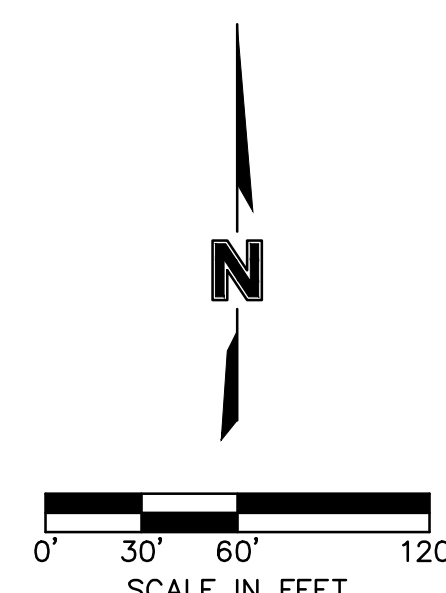
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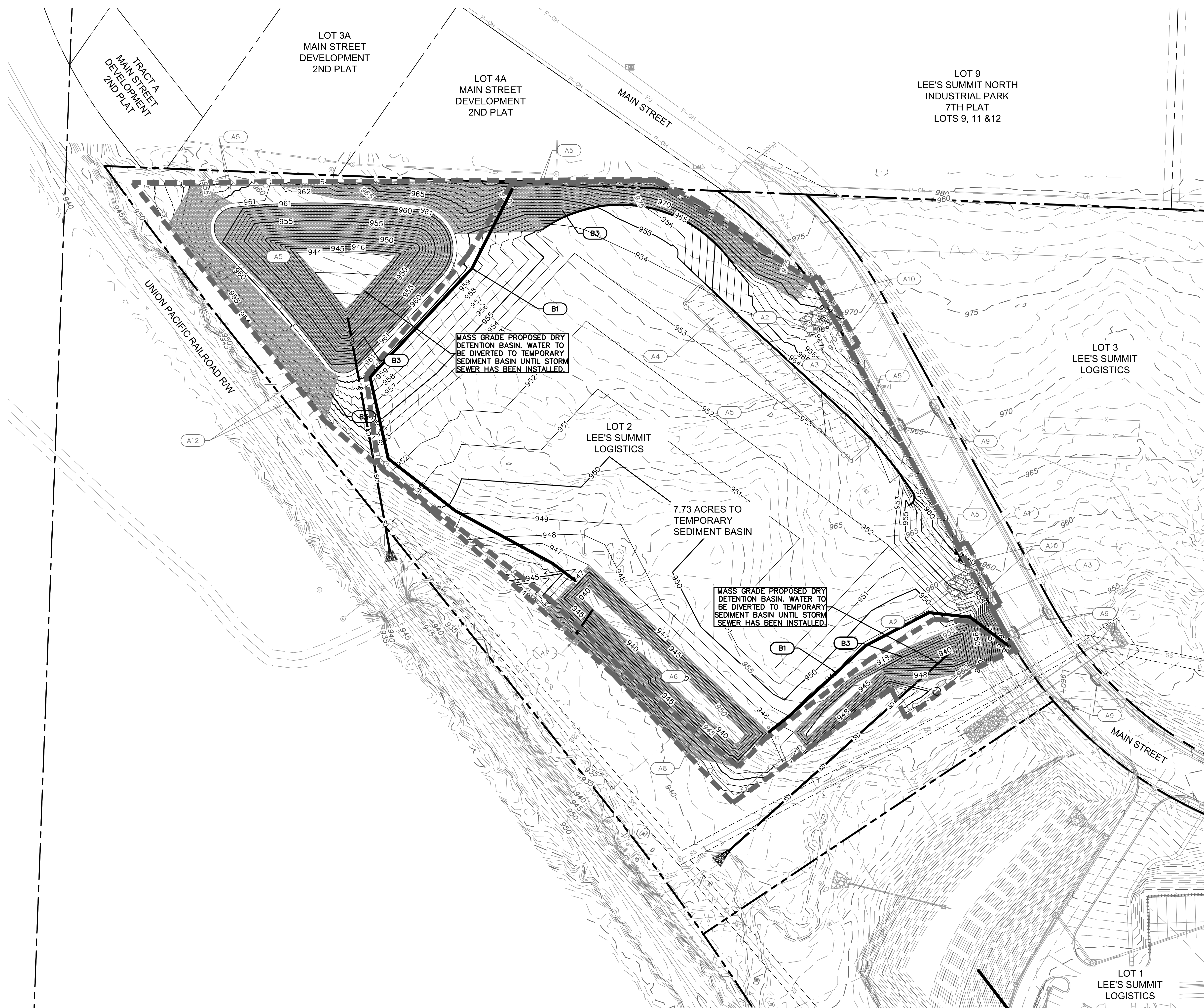


LEGEND

- PROPERTY LINE
- SURROUNDING PROPERTY LINES
- EXISTING CONTOUR
- PROPOSED CONTOUR
- TEMPORARY SEDIMENT FENCE
- INSTALL TEMPORARY WATTLE/BIODEGRADABLE LOG
- LIMITS OF DISTURBANCE (10.28 ACRES)
- DRAINAGE BOUNDARIES
- TEMPORARY DIVERSION BERM (REFERENCE DETAILS) (18" DEEP BERM W/ "ECB S32
- 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) LD1.4 & LD1.5 FOR DETAILS.
	A7	END SECTION PROTECTION (RIPRAP)	C	INSTALL AS SHOWN. SEE SHEET(S) LD1.4 & LD1.5 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	C	INSTALL AS INDICATED ON PLANS
	A12	NOT USED	N/A	INSTALL AS INDICATED ON PLANS
	A13	NOT USED	N/A	
B – CLEARING, MASS GRADING, AND CONSTRUCTION OF SANITARY SEWER	A14	NOT USED	N/A	
	B1	TEMPORARY DIVERSION BERM	B	INSTALL AS INDICATED ON PLANS
	B2	TEMPORARY SEDIMENT FENCE	C	INSTALL AS INDICATED ON PLANS
	B3	TEMPORARY SLOPE STABILIZATION (EROSION CONTROL BLANKET)	C	INSTALL AS INDICATED ON PLANS
	C1	TEMPORARY SLOPE STABILIZATION (EROSION CONTROL BLANKET)	C	INSTALL AS INDICATED ON PLANS
C – CONSTRUCTION: BUILDING, PAVEMENT & STORM SEWER AND UTILITIES	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	NOT USED	N/A	
	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	NOT USED	N/A	
	C8	END SECTION PROTECTION (RIPRAP)	N/A	REFERENCE STORM SEWER SHEETS FOR DESIGN AND INSTALLATION INFORMATION
	C9	REMOVE SEDIMENT BASIN	N/A	REMOVE AS INDICATED ON PLANS
	D1	CONVERT SEDIMENT BASINS TO FINAL CONDITION (DRY DETENTION BASIN)	N/A	REFERENCE GRADING AND STORM SHEETS FOR FINAL DESIGN INFORMATION
D – POST CONSTRUCTION: FINAL STABILIZATION	D2	REPLACE TOP SOIL, SEED MULCH, SOD, LANDSCAPE	N/A	ESTABLISH PERENNIAL VEGETATION 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.





LEGEND

PROPERTY LINE

SURROUNDING PROPERTY LINES

EXISTING CONTOUR

PROPOSED CONTOUR

TEMPORARY SEDIMENT FENCE

INSTALL TEMPORARY WATTLE/BIODEGRADABLE LOG

LIMITS OF DISTURBANCE (10.28 ACRES)

DRAINAGE BOUNDARIES

TEMPORARY DIVERSION BERM (REFERENCE DETAILS) (18" DEEP BERM W/ EOCB S32

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

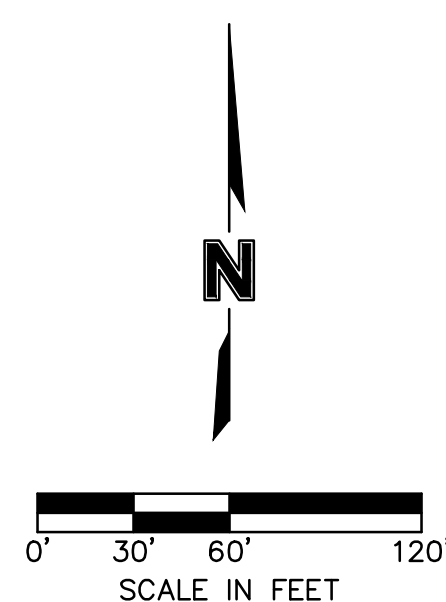
TEMPORARY STAGING/STOCKPILE AREA

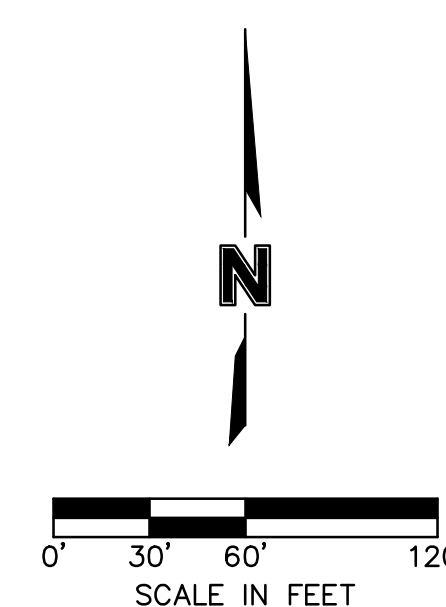
CONCRETE WASHOUT

EROSION CONTROL REFERENCE NUMBER

GRAVEL BAGS CURB INLET PROTECTION

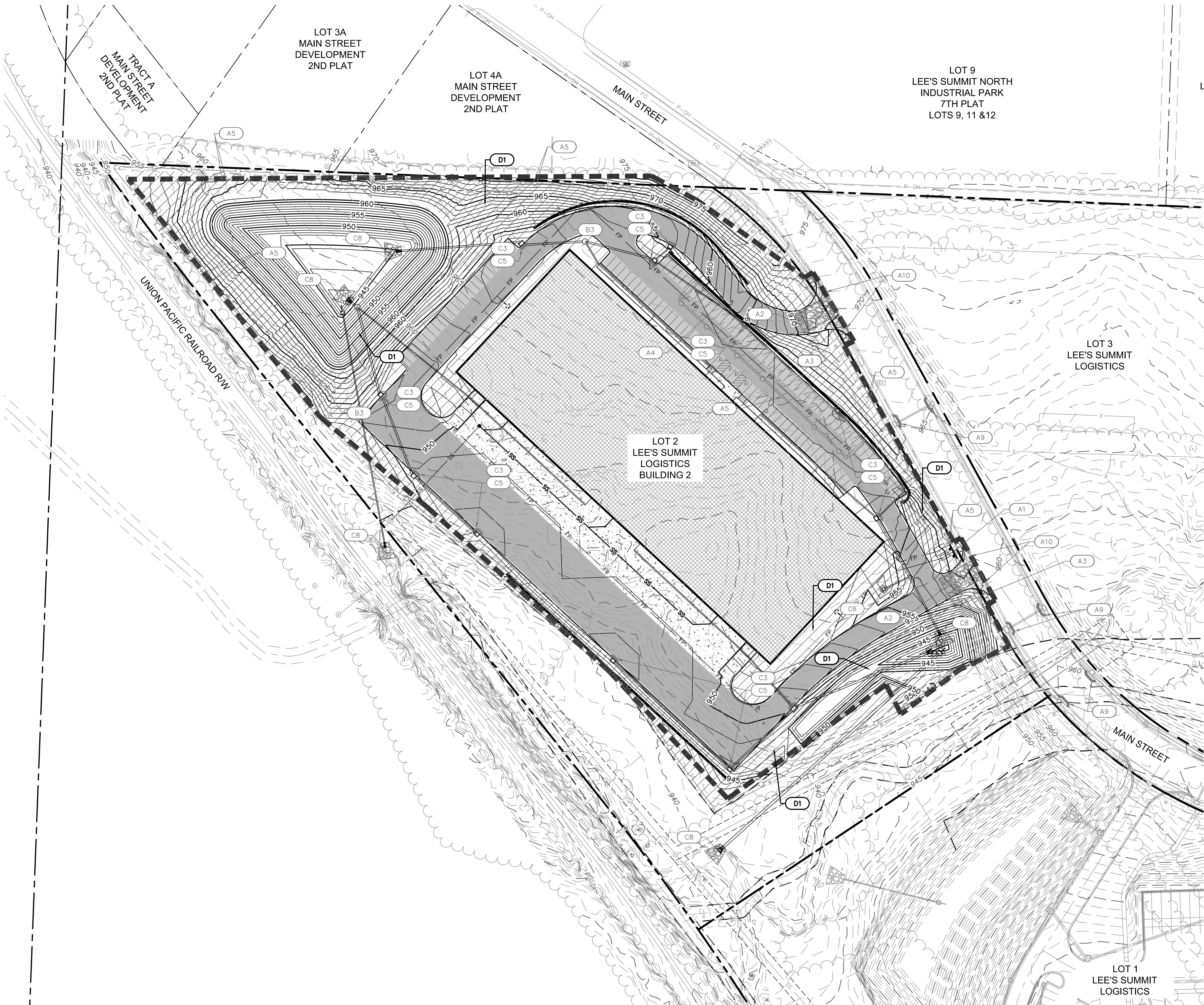
EROSION CONTROL STAGING CHART				
PROJECT PHASE	EROSION CONTROL BMP REFERENCE NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
A – PRE-CONSTRUCTION	A1	INSTALL SWPPP SIGN	D	INSTALL AS INDICATED ON PLANS
	A2	TEMPORARY CONSTRUCTION ENTRANCE	C	INSTALL AS INDICATED ON PLANS
	A3	TEMPORARY CONCRETE WASHOUT	C	INSTALL 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) LD1.4 & LD1.5 FOR DETAILS.
	A7	END SECTION PROTECTION (RIPRAP)	C	INSTALL AS SHOWN. SEE SHEET(S) LD1.4 & LD1.5 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	C	INSTALL AS INDICATED ON PLANS
	A12	NOT USED	N/A	
	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
	B2	TEMPORARY SEDIMENT FENCE	C	INSTALL AS INDICATED ON PLANS
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C – CONSTRUCTION: BUILDING, PAVEMENT & STORM SEWER AND UTILITIES	C1	TEMPORARY SLOPE STABILIZATION (EROSION CONTROL BLANKET)	C	INSTALL AS INDICATED ON PLANS
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	C7	NOT USED	N/A	
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D – POST CONSTRUCTION: FINAL STABILIZATION	D1	CONVERT SEDIMENT BASINS TO FINAL CONDITION (DRY DETENTION BASIN)	N/A	REFERENCE GRADING AND STORM SHEETS FOR FINAL DESIGN INFORMATION
	D2	REPLACE TOP SOIL, SEED MULCH, SOD, LANDSCAPE	N/A	ESTABLISH PERENNIAL VEGETATION 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.





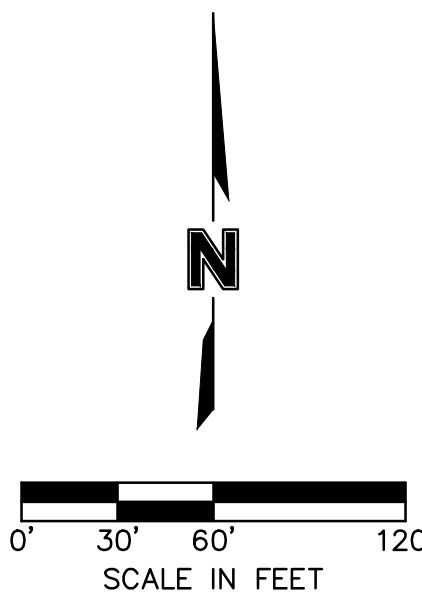
EROSION CONTROL STAGING CHART				
PROJECT PHASE	EROSION CONTROL BMP REFERENCE NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
A – PRE-CONSTRUCTION	A1	INSTALL SWPPP SIGN	D	INSTALL AS INDICATED ON PLANS
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	A12	NOT USED	N/A	
	A13	NOT USED	N/A	
	A14	NOT USED	N/A	
B – CLEARING, MASS GRADING, AND CONSTRUCTION OF SANITARY SEWER	B1	TEMPORARY DIVERSION BERM	B	INSTALL AS INDICATED ON PLANS
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- LEGEND**
- PROPERTY LINE
 - SURROUNDING PROPERTY LINES
 - EXISTING CONTOUR
 - PROPOSED CONTOUR
 - TEMPORARY SEDIMENT FENCE
 - INSTALL TEMPORARY WATTLE/BIODEGRADABLE LOG
 - LIMITS OF DISTURBANCE (10.28 ACRES)
 - DRAINAGE BOUNDARIES
 - TEMPORARY DIVERSION BERM (REFERENCE DETAILS) (18" DEEP BERM W/ "ECB S32
 - 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.
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 - 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:
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	A2	TEMPORARY CONSTRUCTION ENTRANCE	C	INSTALL AS INDICATED ON PLANS
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	C4	NOT USED	N/A	
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	D2	REPLACE TOP SOIL, SEED MULCH, SOD, LANDSCAPE	N/A	ESTABLISH PERENNIAL VEGETATION 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.



PHASE D - EROSION CONTROL PLAN
LAND DISTURBANCE PLANS

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS - BUILDING 2
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET

LEE'S SUMMIT, MISSOURI

drawn by: OLSSON
checked by: ENG
approved by: ENG
QA/QC by: ENG
project no.: B21-04157
drawing: @ER004_B2104157.dwg
date:

2022

SHEET
LD1.3

BY:

REVISIONS DESCRIPTION

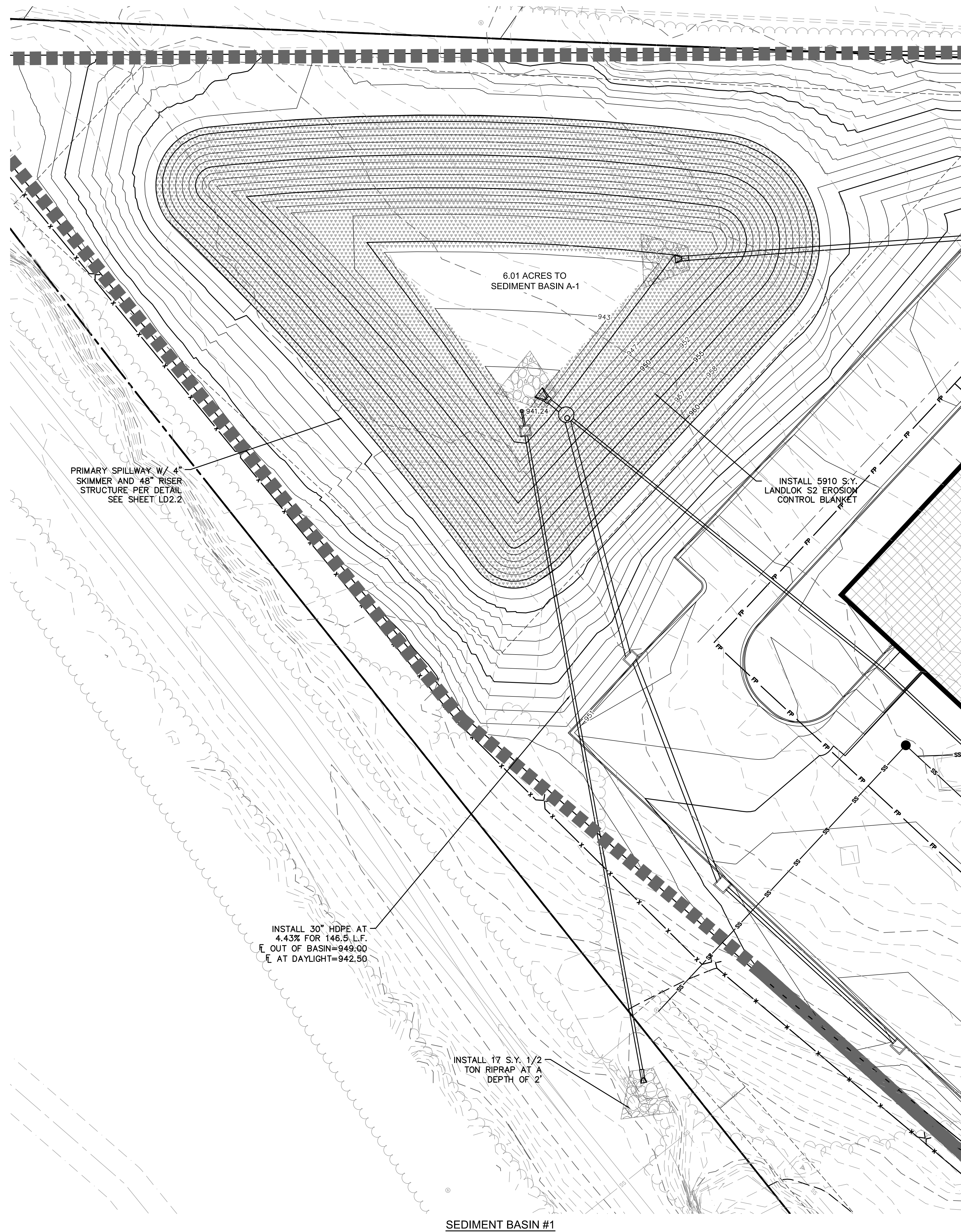
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REV. NO.

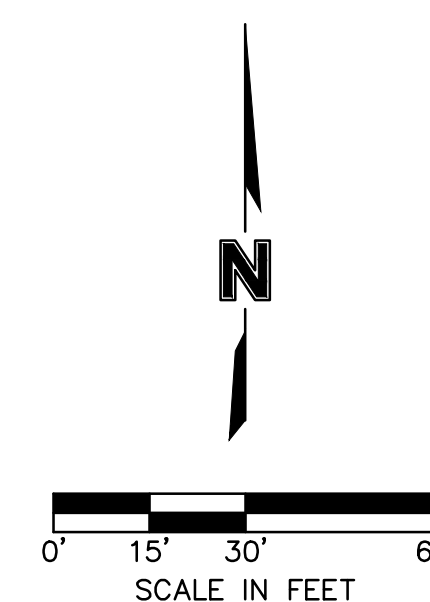
REVISIONS

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

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SEDIMENT BASIN #1



LEGEND

- PROPERTY LINE
- SURROUNDING PROPERTY LINES
- EXISTING CONTOUR
- PROPOSED CONTOUR
- TEMPORARY SEDIMENT FENCE
- INSTALL TEMPORARY WATTLE/BIODEGRADABLE LOG
- LIMITS OF DISTURBANCE (10.28 ACRES)
- DRAINAGE BOUNDARIES
- TEMPORARY DIVERSION BERM (REFERENCE DETAILS) (18" DEEP BERM W/ "ECB S32 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 RECOMMENDATION

SEDIMENT BASIN #1 DETAIL
LAND DISTURBANCE PLANS

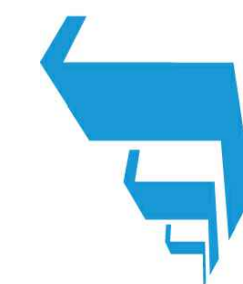
SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS - BUILDING 2
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET

OLSSON
ENG
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2022

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SCANNELL
P R O P E R T I E S

Olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213-4750
TEL 913.381.1170 www.olsson.com

C PSURE B2104157

bpayne2
C ERC LEGEND B2104157

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C TRUK B2104157design\AutoCAD
BASE B2104157

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Apr 28, 2022 1

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DATE:



INSTALL 30" HDPE AT
1.61% FOR 372.00 L.F.
OUT OF BASIN=943.00
AT DAYLIGHT=937.00

INSTALL 4085 S.Y.
LANDLOK S2 EROSION
CONTROL BLANKET

- PRIMARY SPILLWAY W/ 4" SKIMMER AND 48" RISER STRUCTURE PER DETAIL SEE SHEET LD2.2

LEGEND

PROPERTY LINE
 SURROUNDING PROPERTY LINES
 EXISTING CONTOUR
 PROPOSED CONTOUR
 TEMPORARY SEDIMENT FENCE
 INSTALL TEMPORARY
 WATTLE/BIODEGRADABLE LOG
 LIMITS OF DISTURBANCE (10.28 ACRES)
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 STABILIZATION, "LANDLOK (S2)" (EROSION CONTROL
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P R O P E R T I E S

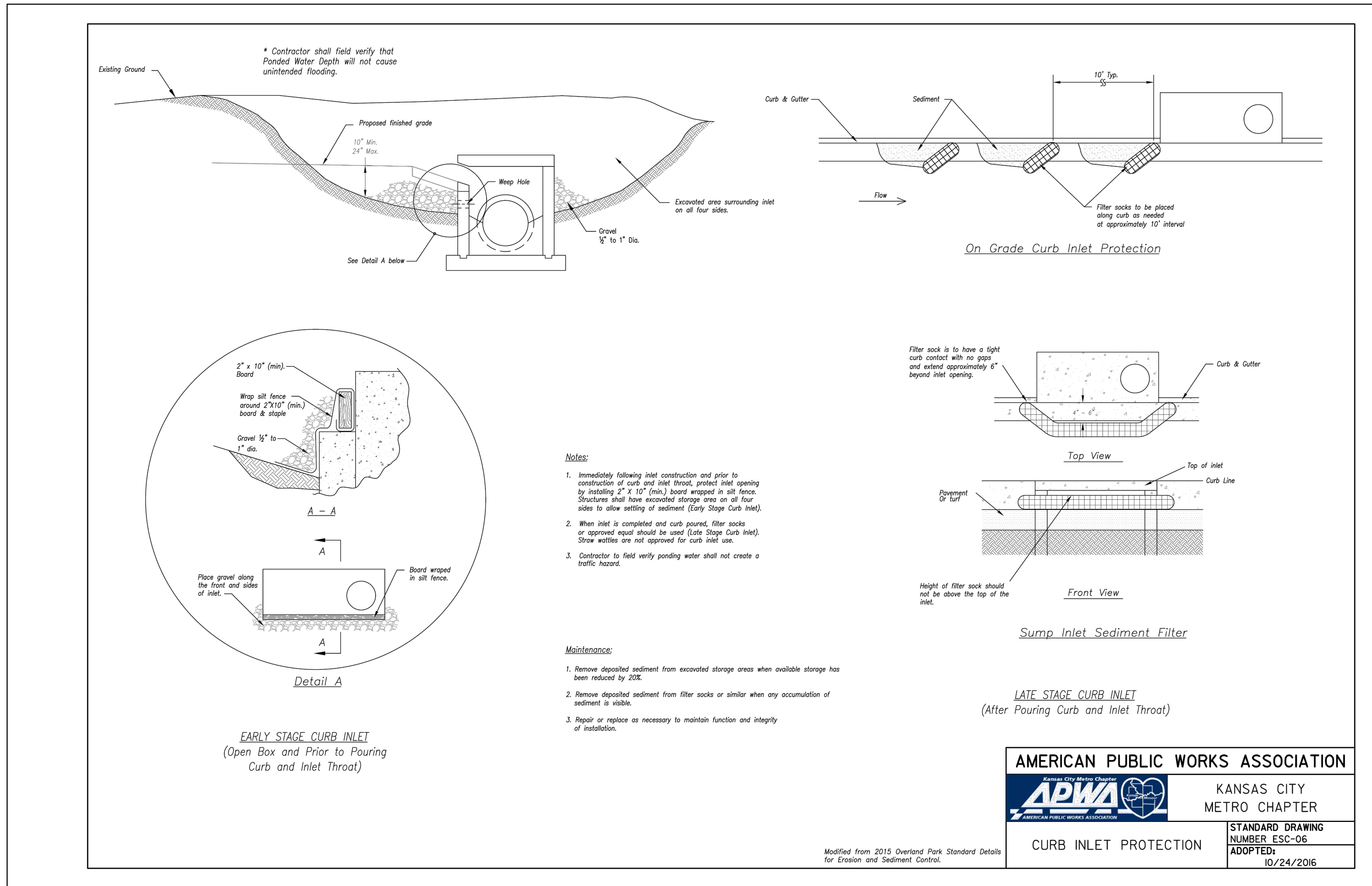
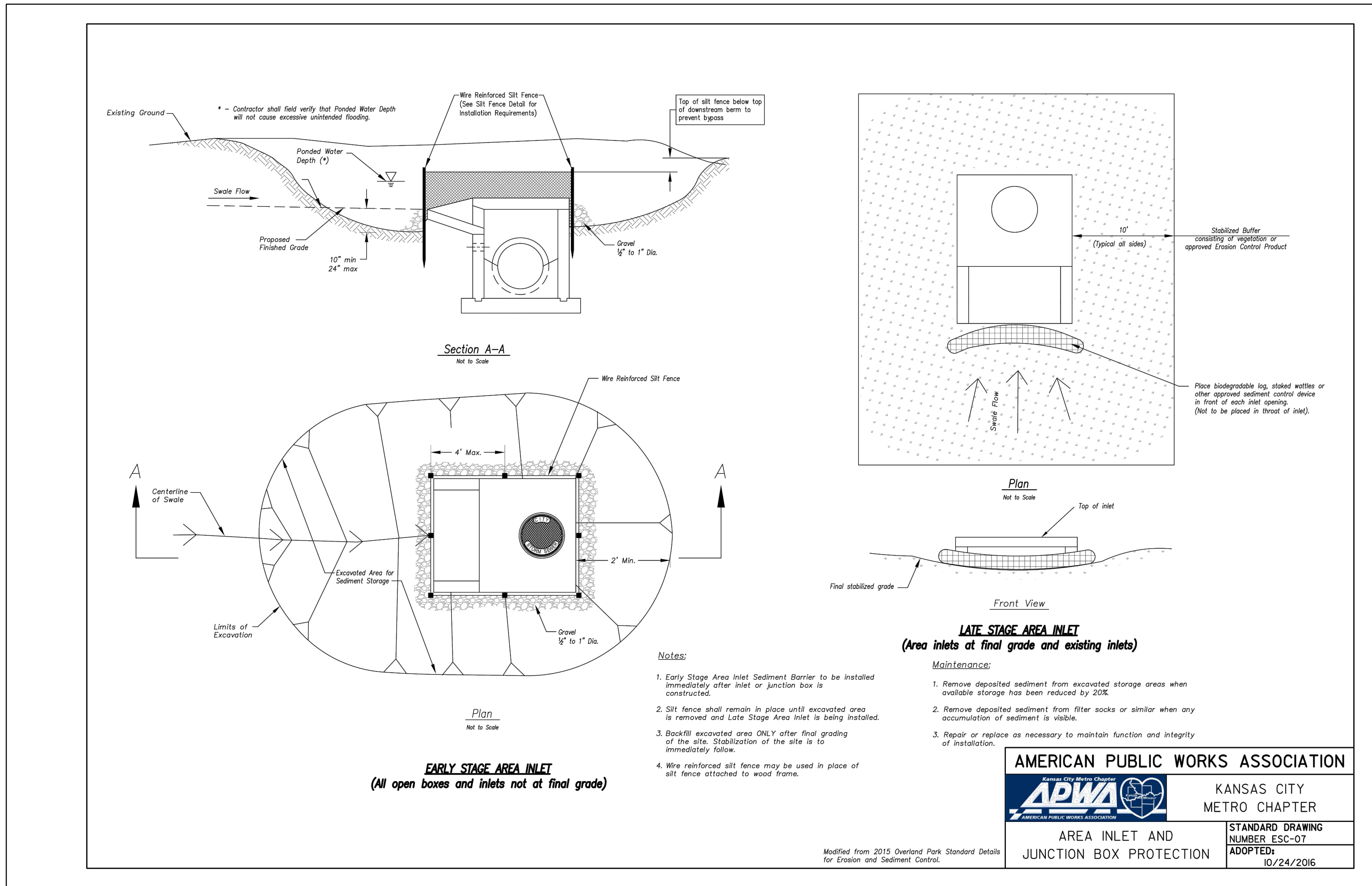
olsson

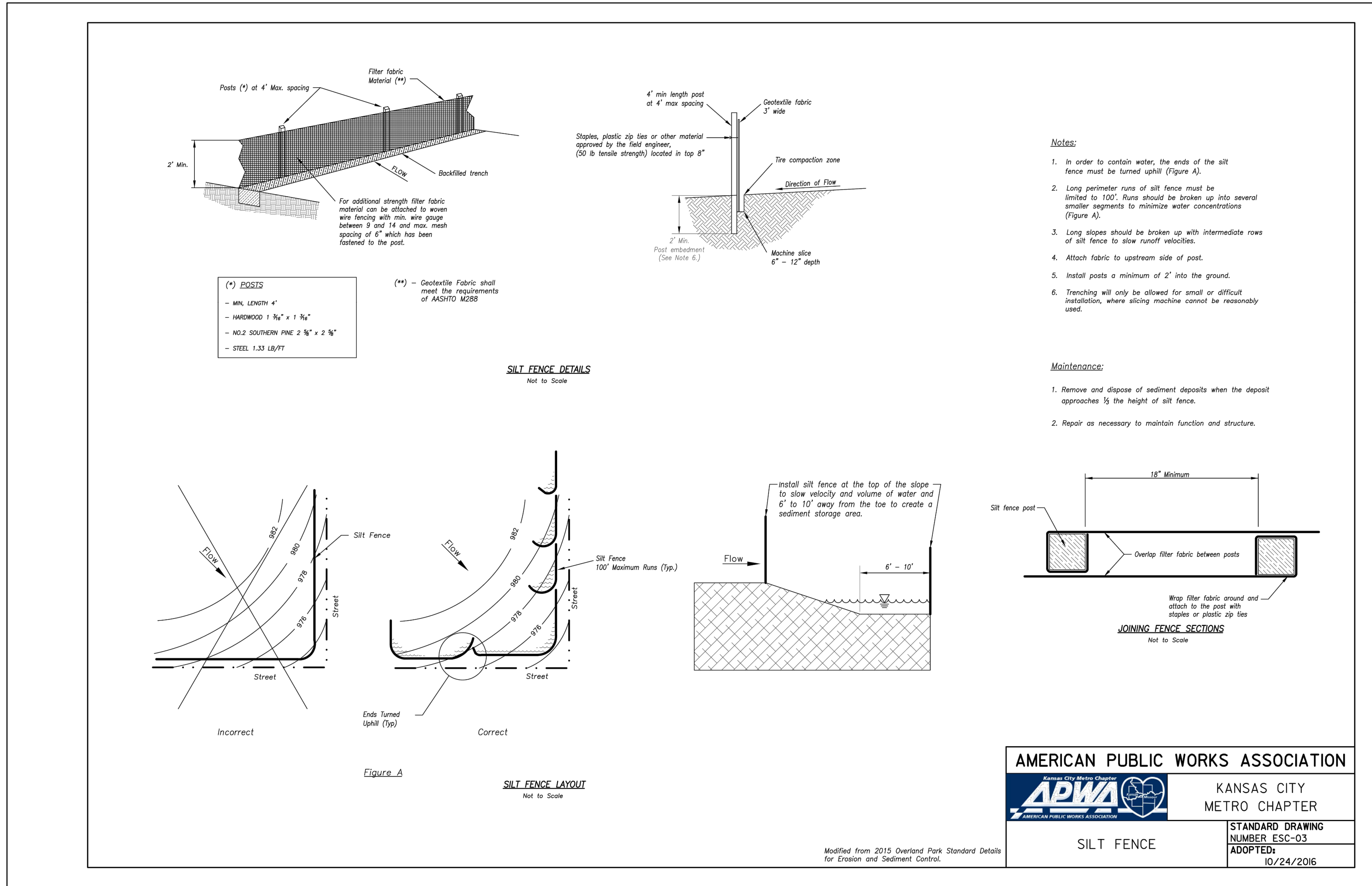
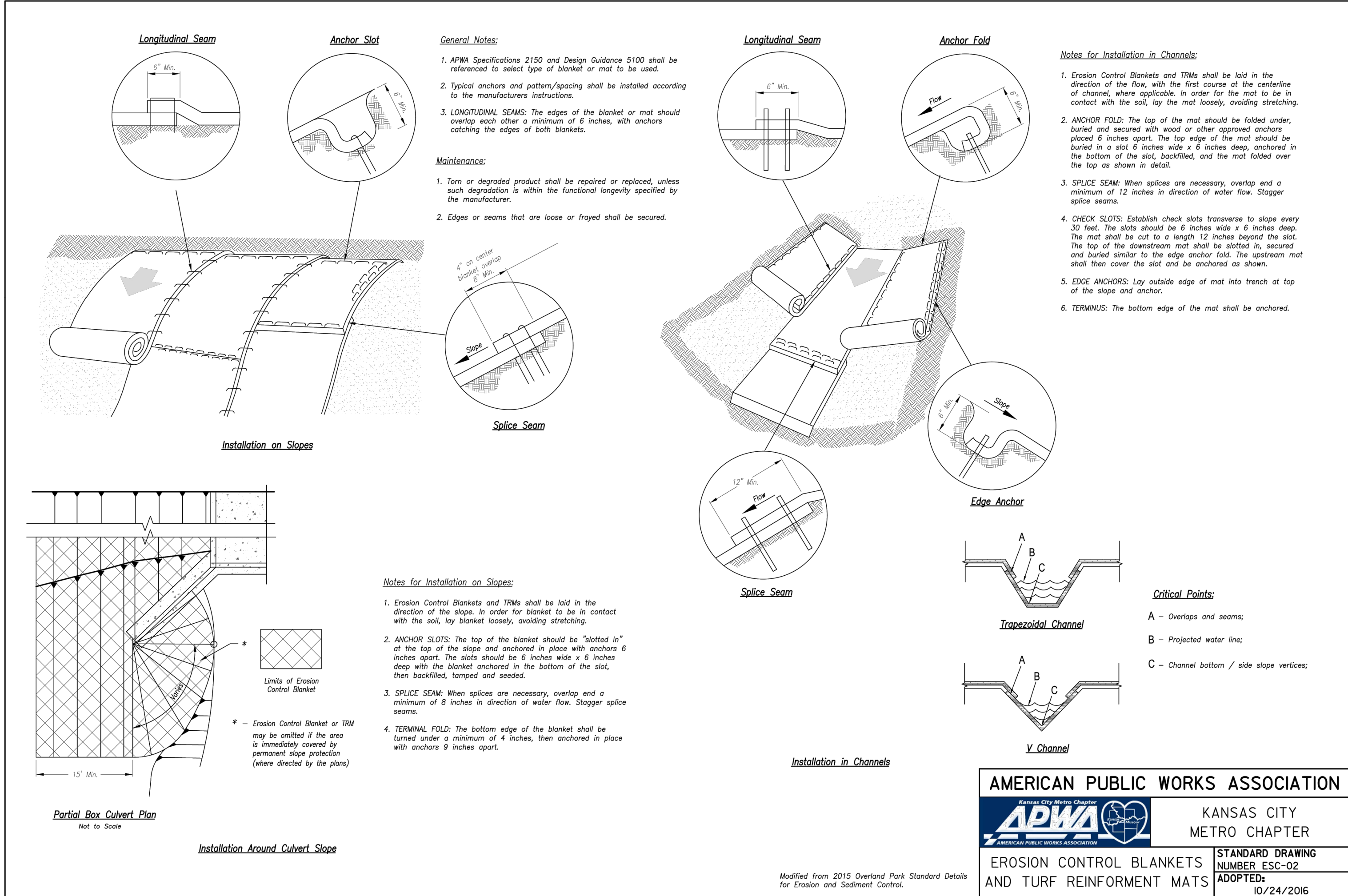
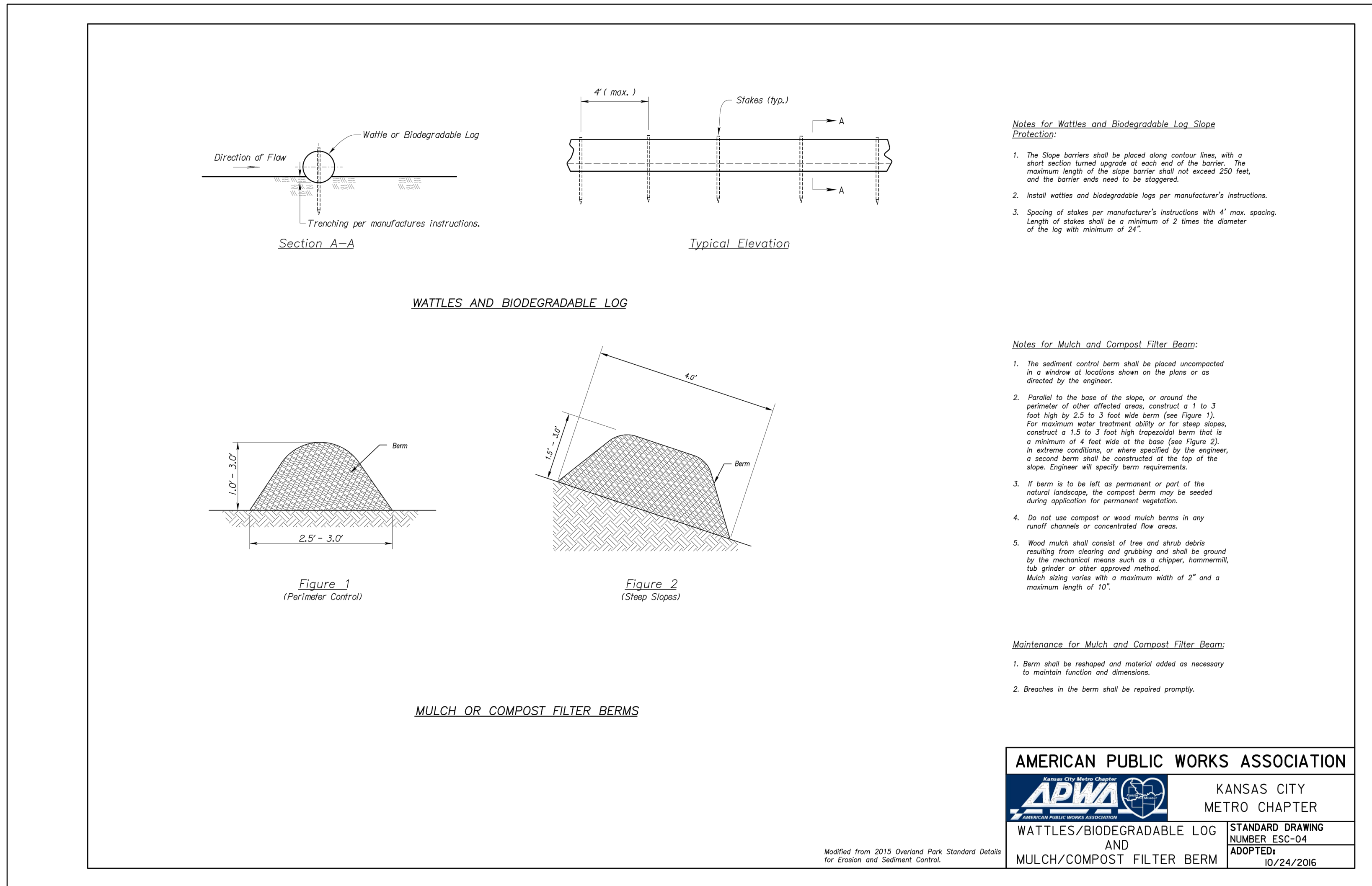
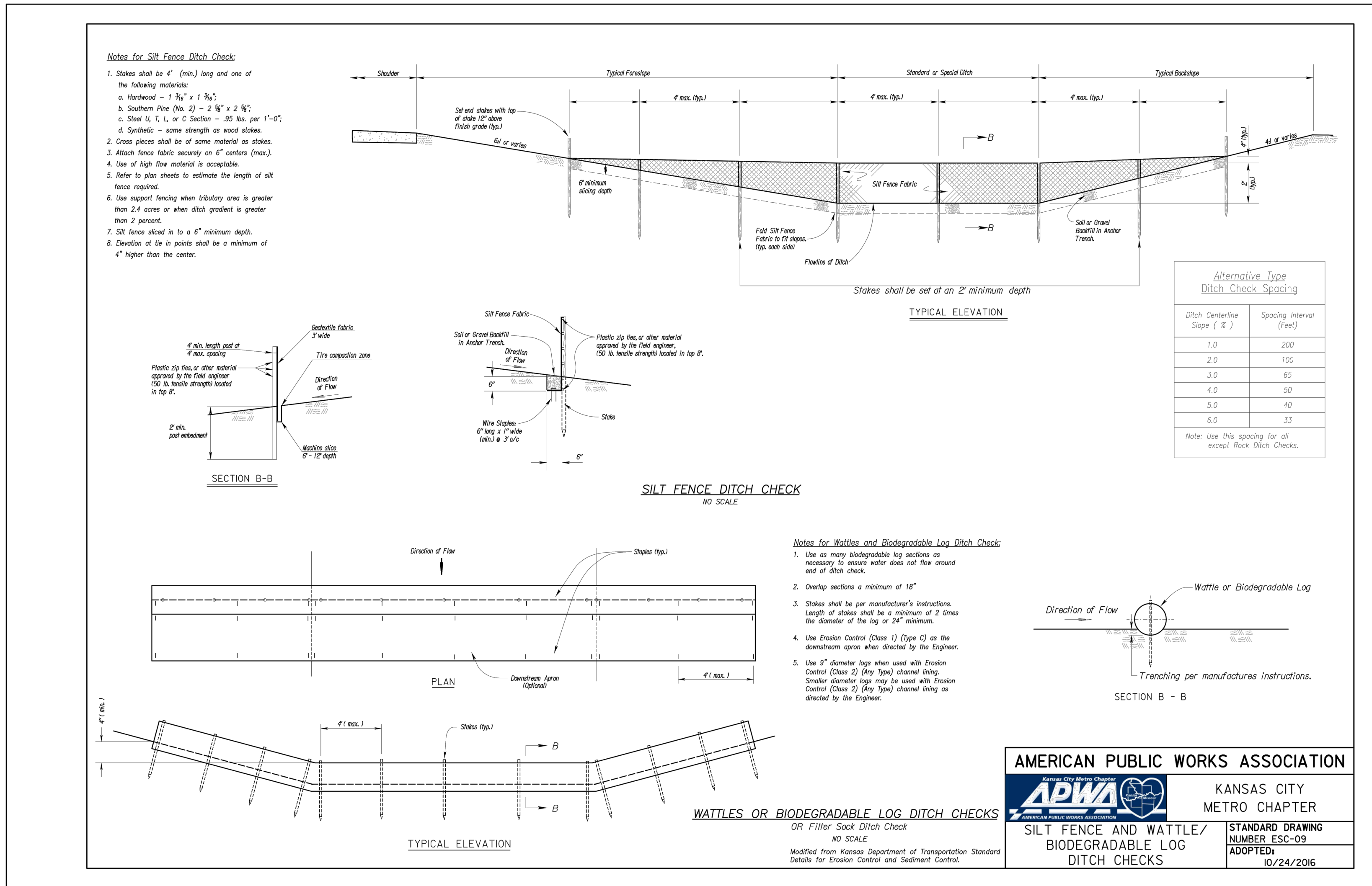
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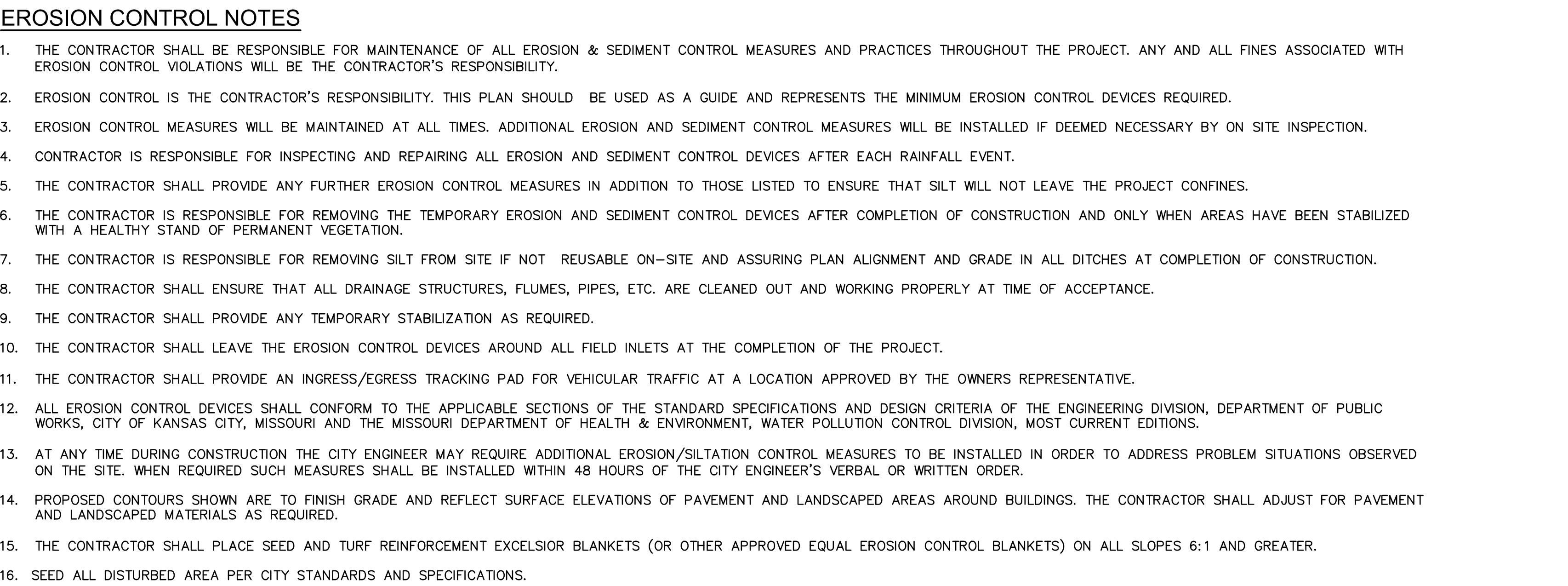
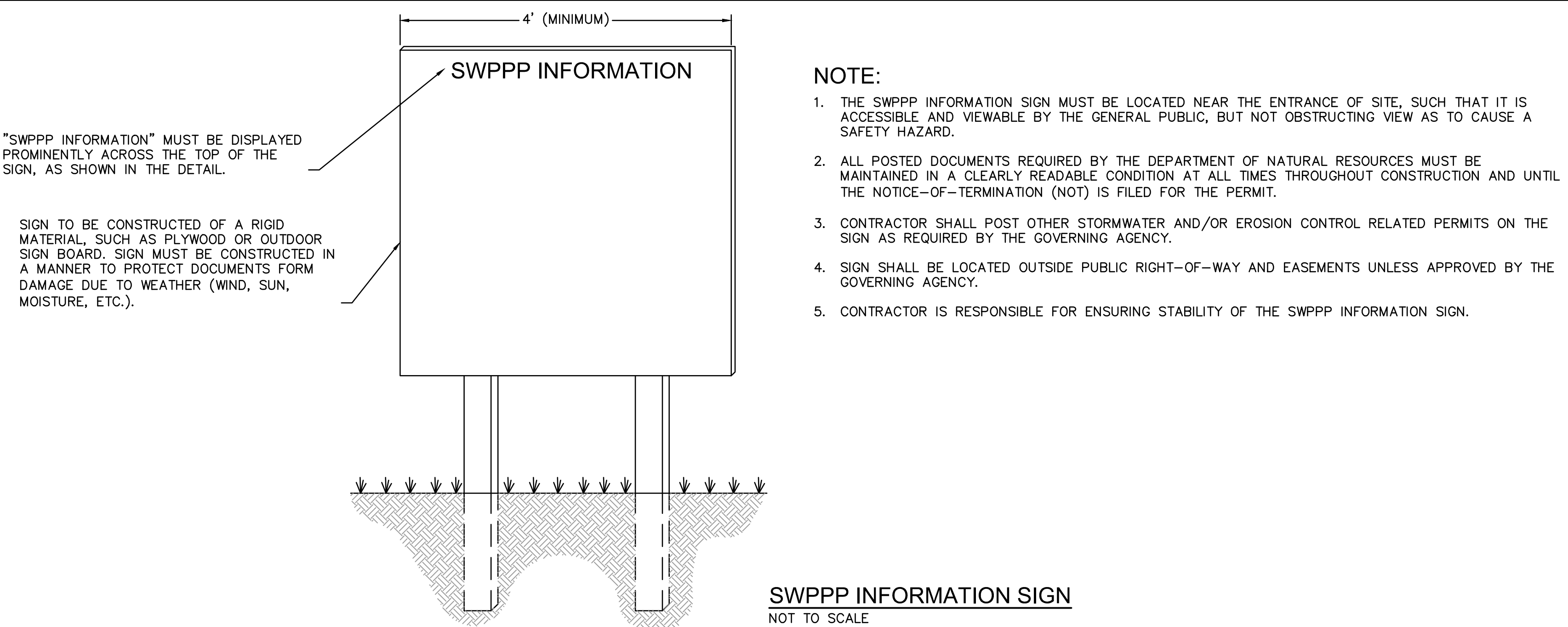
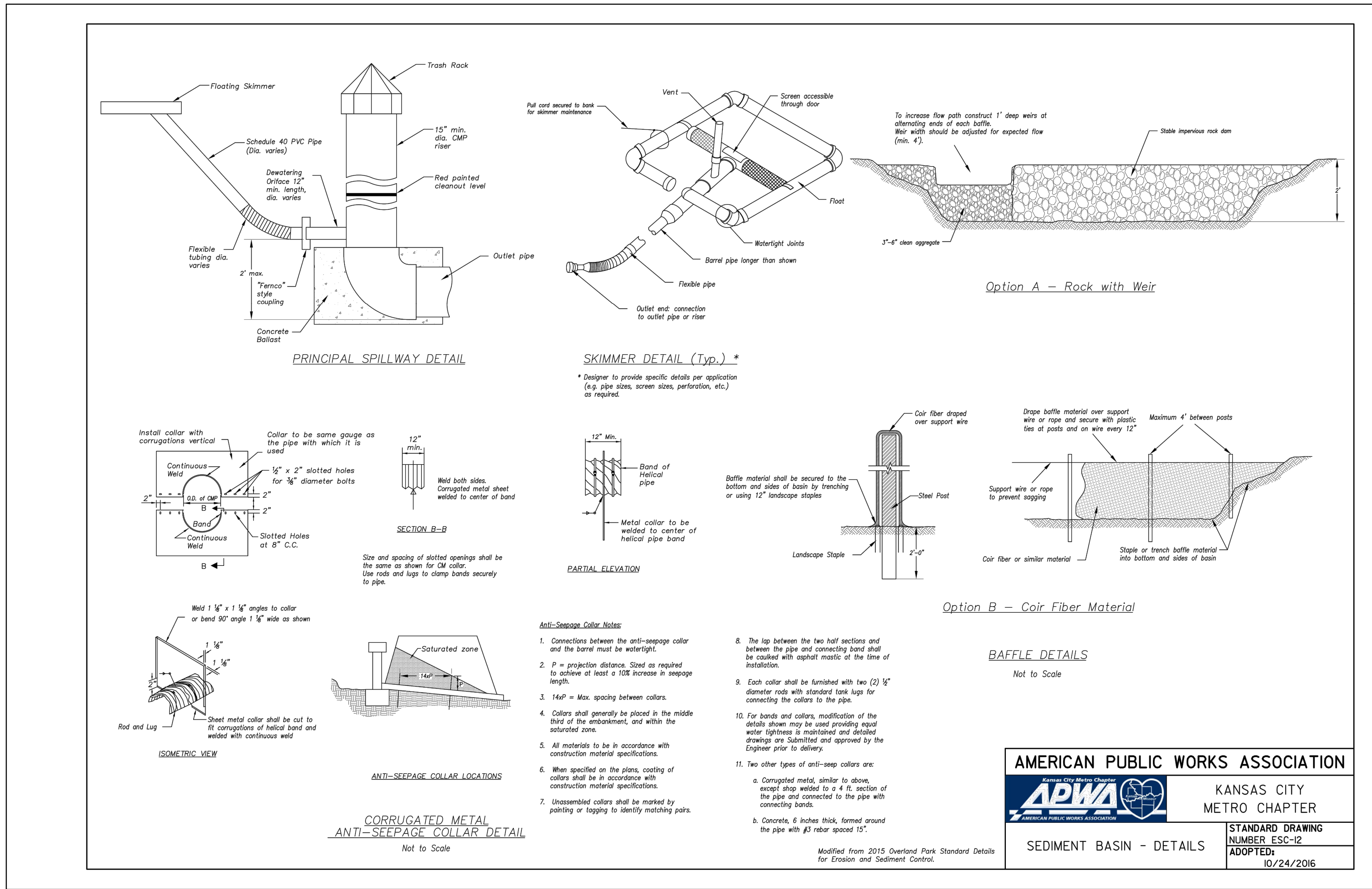
REV. NO.	DATE	REVISIONS DESCRIPTION	BY
SEDIMENT BASIN #2 DETAIL LAND DISTURBANCE PLANS			
SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS - BUILDING 2 NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET			
LEE'S SUMMIT, MISSOURI			2022
REVISIONS			

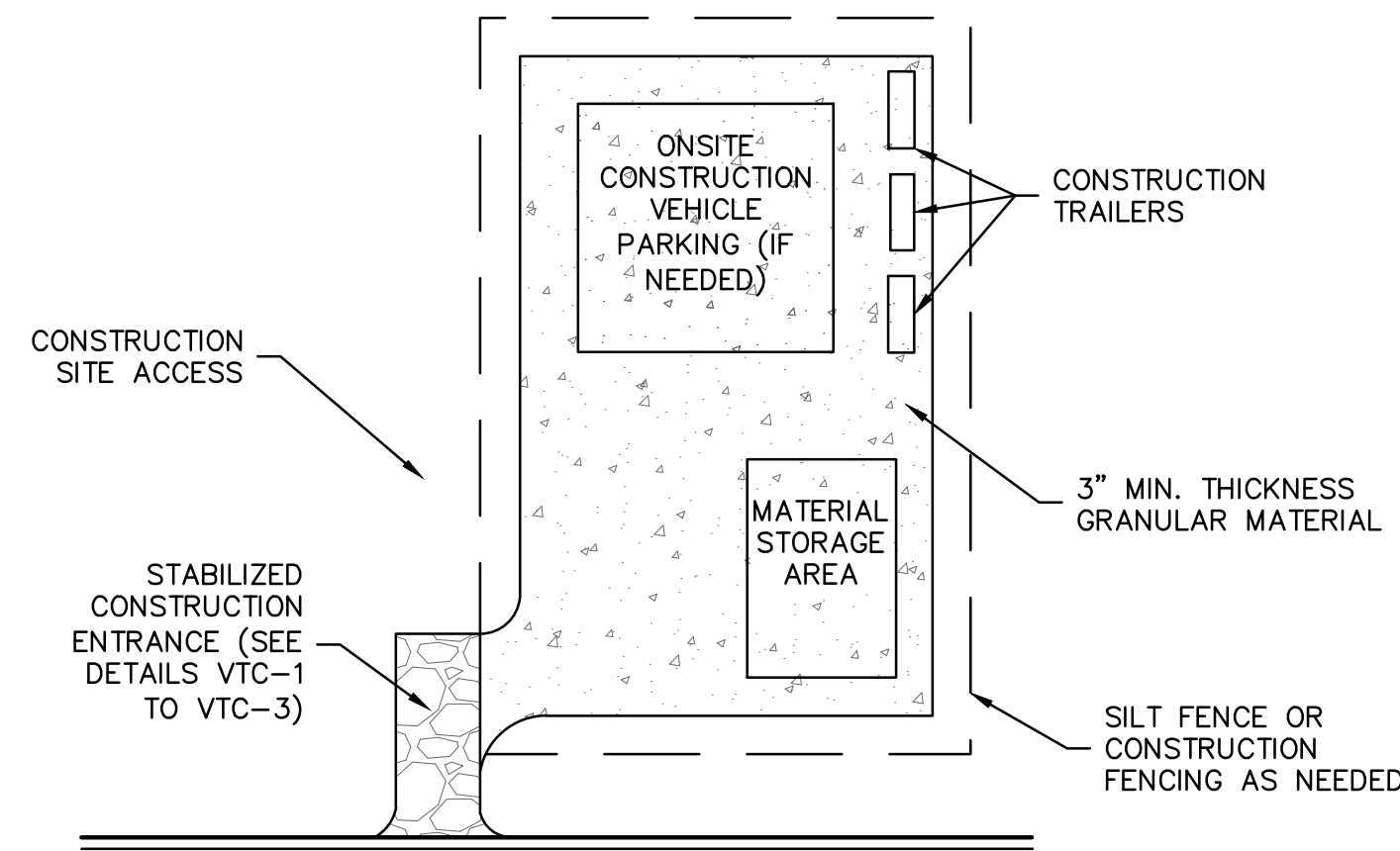
drawn by: _____ OLSSON
checked by: _____ ENG
approved by: _____ ENG
QA/QC by: _____ ENG
project no.: _____ B21-04157
drawing no.: _____ B2104157.dwg

SHEET
LD1.5









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.

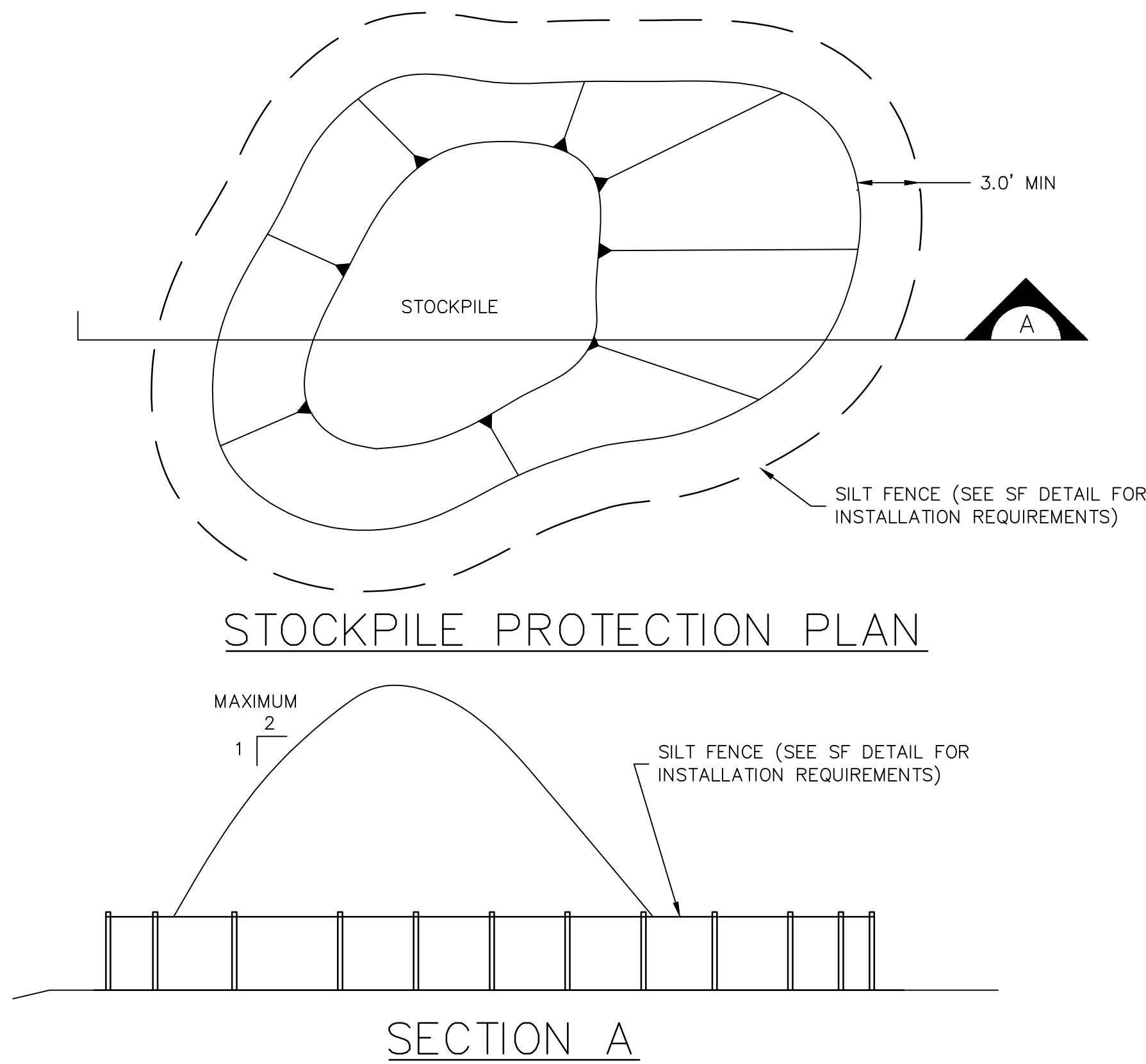
STABILIZED STAGING AREA MAINTENANCE NOTES

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

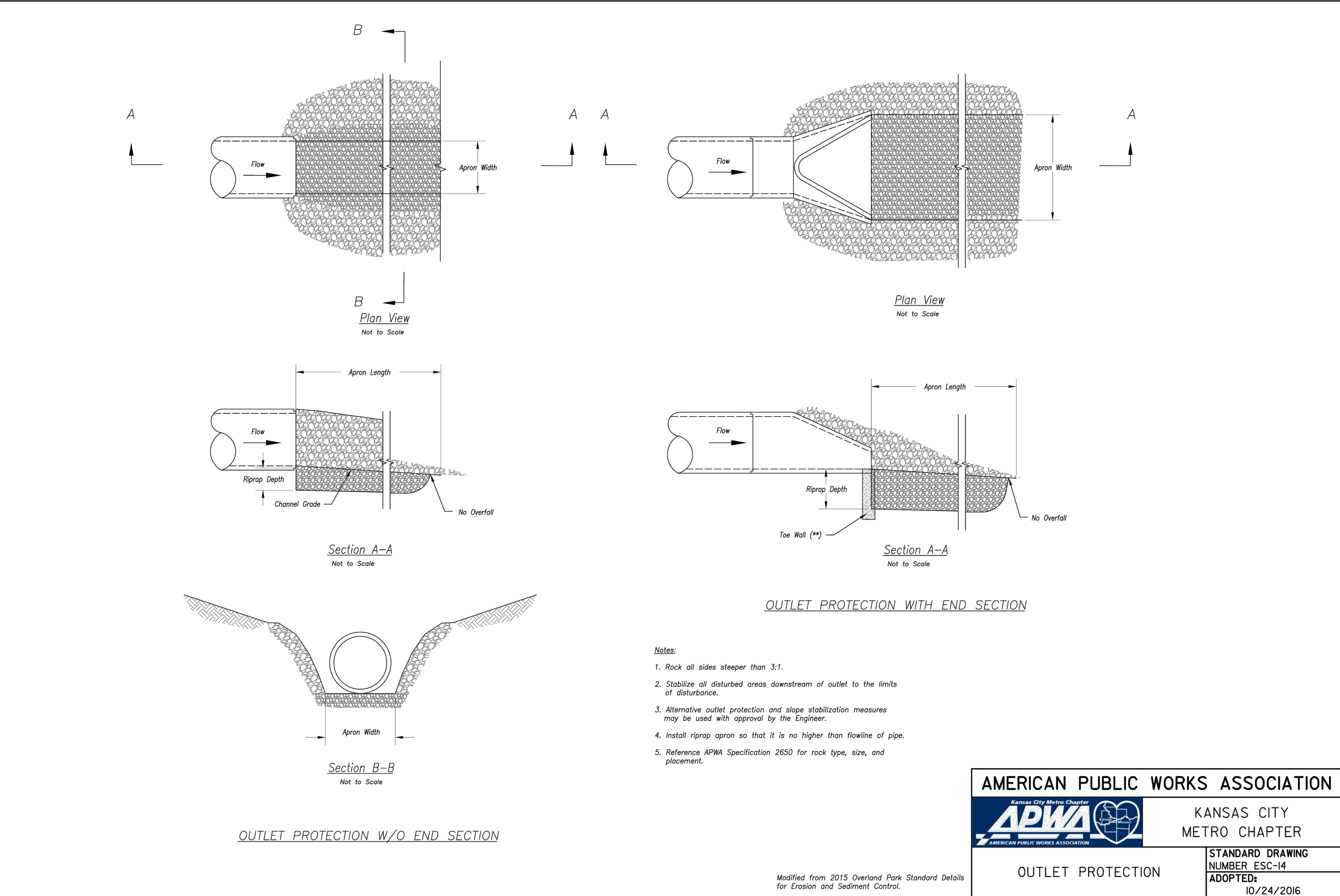
1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS 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)

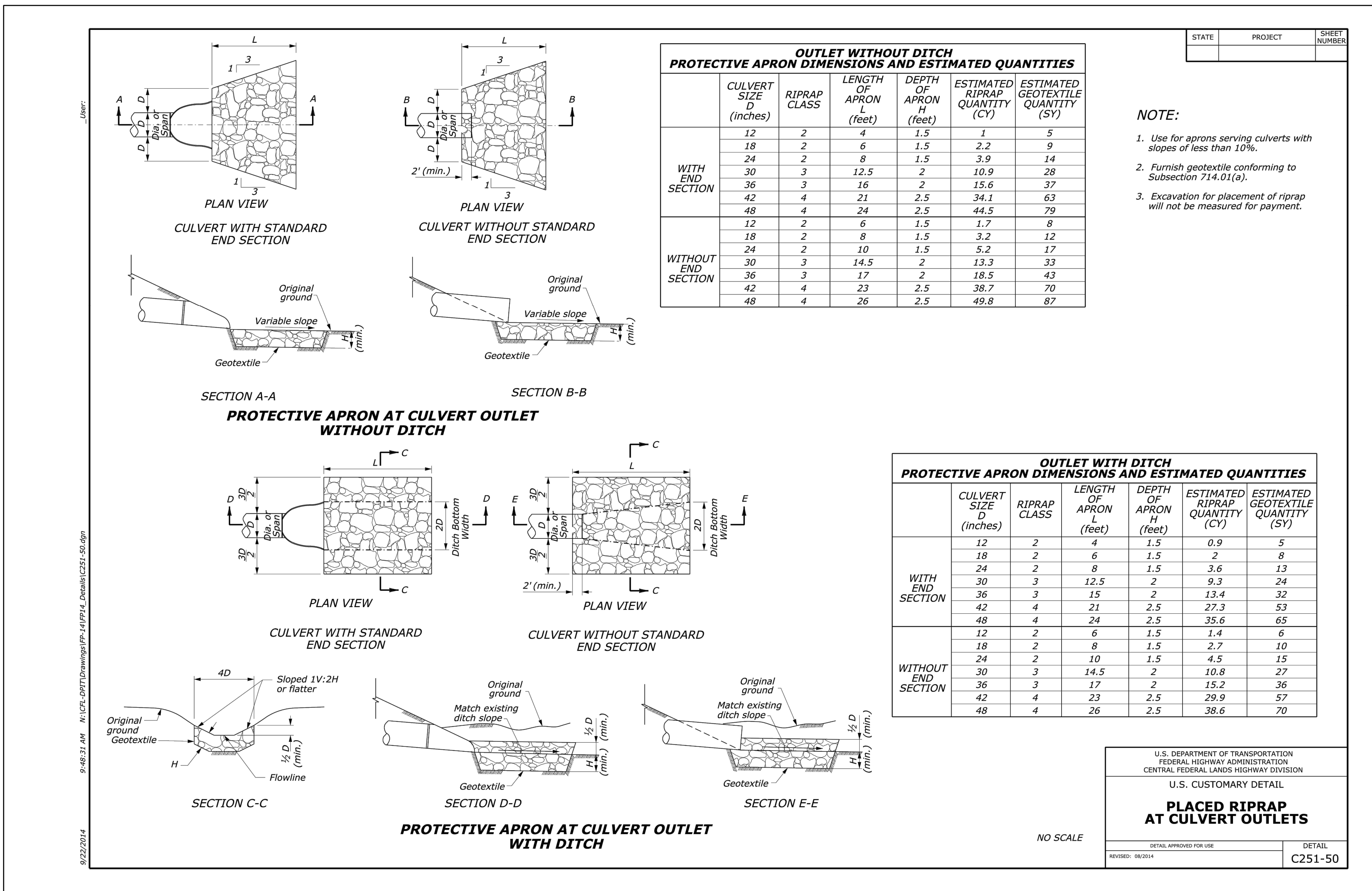
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.



- 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 01/24/2016
OUTLET PROTECTION

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

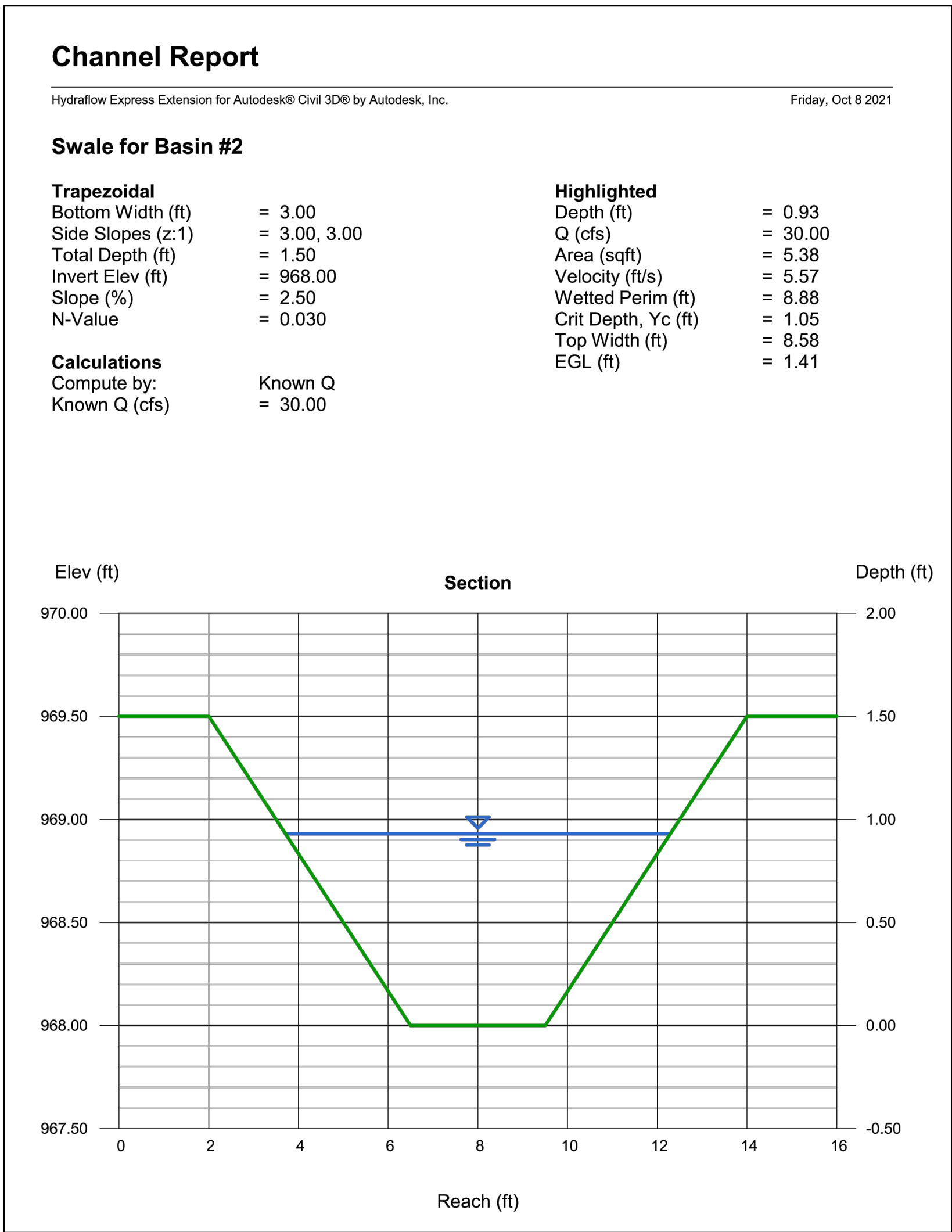
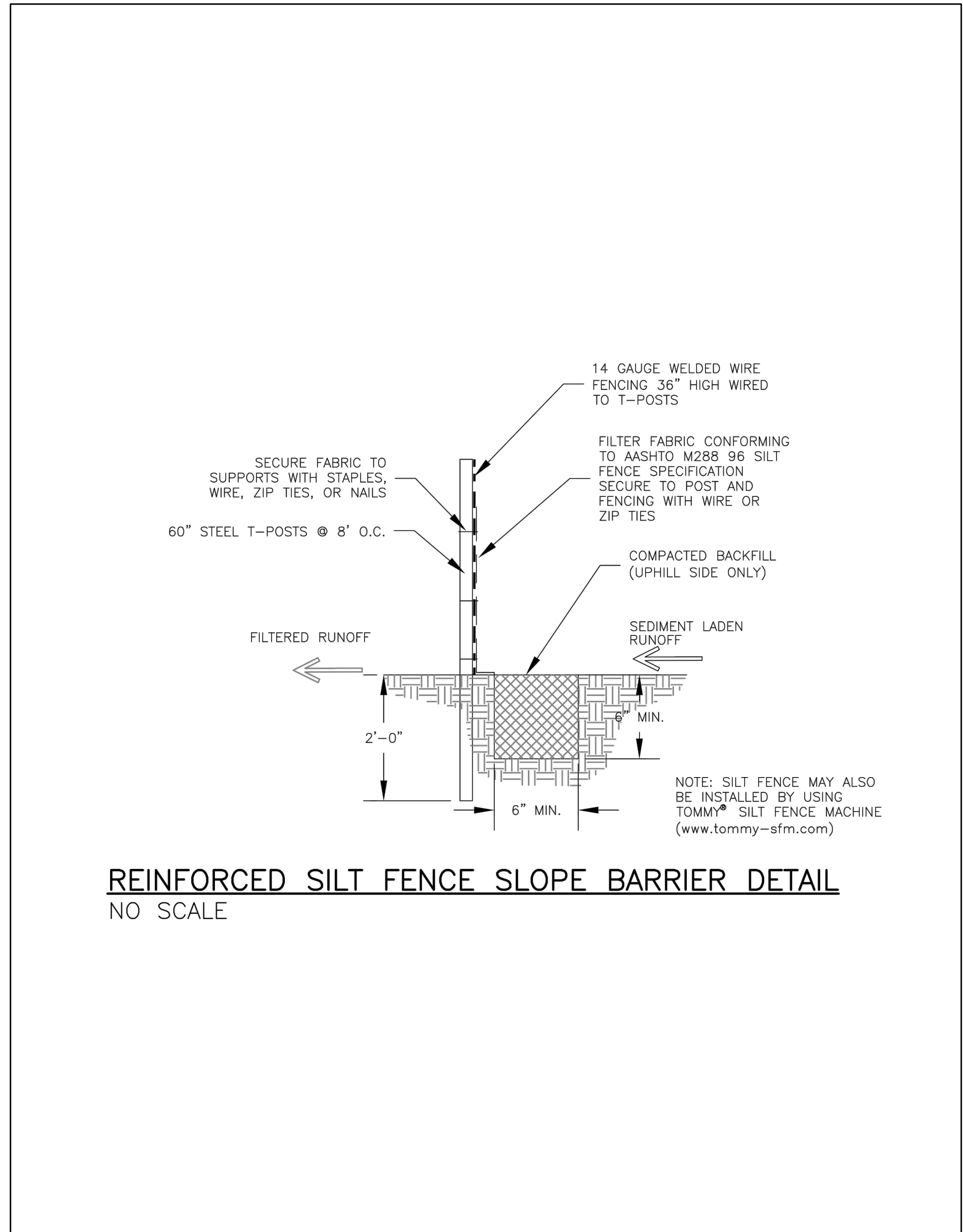
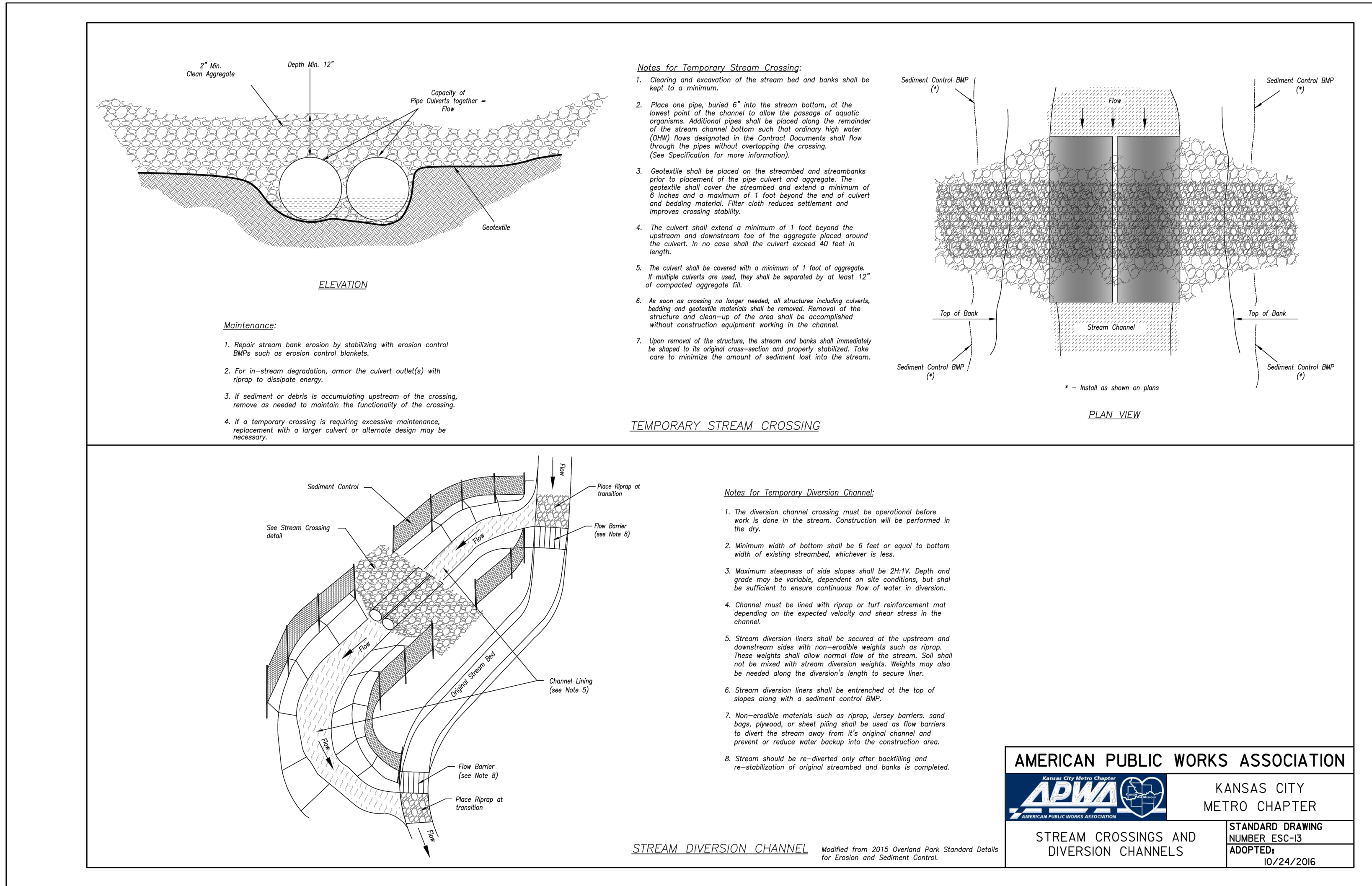


OUTLET WITHOUT DITCH PROTECTIVE APRON DIMENSIONS AND ESTIMATED QUANTITIES					
	CULVERT SIZE (inches)	RIPRAP CLASS	LENGTH OF APRON (feet)	DEPTH OF APRON (feet)	ESTIMATED RIPRAP QUANTITY (CY)
WITH END SECTION	12	2	1.5	1	5
	18	2	6	1.5	2.2
	24	2	8	1.5	3.9
	30	3	12.5	2	10.9
	36	3	16	2	15.6
WITHOUT END SECTION	42	4	21	2.5	34.1
	48	4	24	2.5	44.5
	12	2	6	1.5	1.7
	18	2	8	1.5	3.2
	24	2	10	1.5	5.2
WITHOUT END SECTION	30	3	14.5	2	13.3
	36	3	17	2	18.5
	42	4	23	2.5	38.7
	48	4	26	2.5	49.8
					87

- 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
WITHOUT END SECTION	42	4	21	2.5	27.3
	48	4	24	2.5	35.6
	12	2	6	1.5	1.4
	18	2	8	1.5	2.7
	24	2	10	1.5	4.5
WITHOUT END SECTION	30	3	14.5	2	10.8
	36	3	17	2	15.2
	42	4	23	2.5	29.9
	48	4	26	2.5	38.6
					70

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION
U.S. CUSTOMARY DETAIL
PLACED RIPRAP AT CULVERT OUTLETS
DETAIL WFOED FOR USE
REVISION: 06/2014
C251-50

EROSION CONTROL NOTES:

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 OF THE UNIFIED GOVERNMENT OF WYANDOTTE COUNTY/KANSAS CITY, KANSAS. IF ANY OF THE GENERAL NOTES CONFLICT WITH THE TECHNICAL PROVISIONS & STANDARD DRAWINGS FOR ROADS AND SEWERS, OF THE UNIFIED GOVERNMENT OF WYANDOTTE COUNTY/KANSAS CITY, KANSAS (THE UG), THE UG'S STANDARDS SHALL OVERRULE.
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 SHALL CONFORM TO THE UNIFIED GOVERNMENT OF WYANDOTTE COUNTY, KANSAS CITY, KS 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 CHAPTER OF 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 SEDIMENT FROM THE SITE.
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 STABILIZED 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. GRADING EQUIPMENT SHALL BE COMPLETED WITH FINAL GRADING, AS-BUILT SHOTS AND VOLUME STORAGE CAPACITY CALCULATIONS SHALL BE PROVIDED TO THE ENGINEER TO CONFIRM COMPLIANCE WITH DESIGN PLANS AND UG STANDARDS.
10. REMOVE SEDIMENT AND RESTORE THE SEDIMENT TRAP TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO 20% OF THE STORAGE CAPACITY.