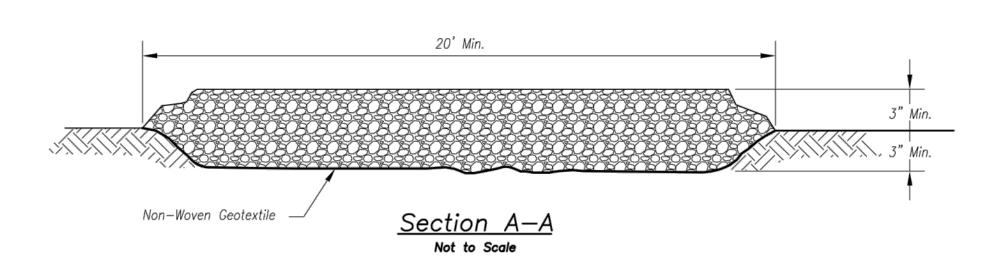


Not to Scale



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.

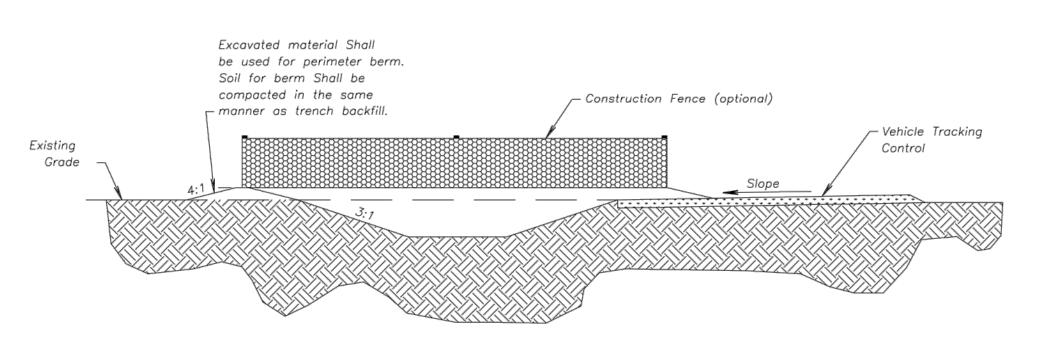
CONSTRUCTION ENTRANCE

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.
- 3. 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

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.

C.O.A. NO.: DRAWN BY: ARJ/AMW CHECKED BY: APPROVED BY: QA/QC BY: PROJECT NO.: 021-04157 DWG NO.: T_ERCD_02104157 2021-10-14 SHEET

54 OF 105

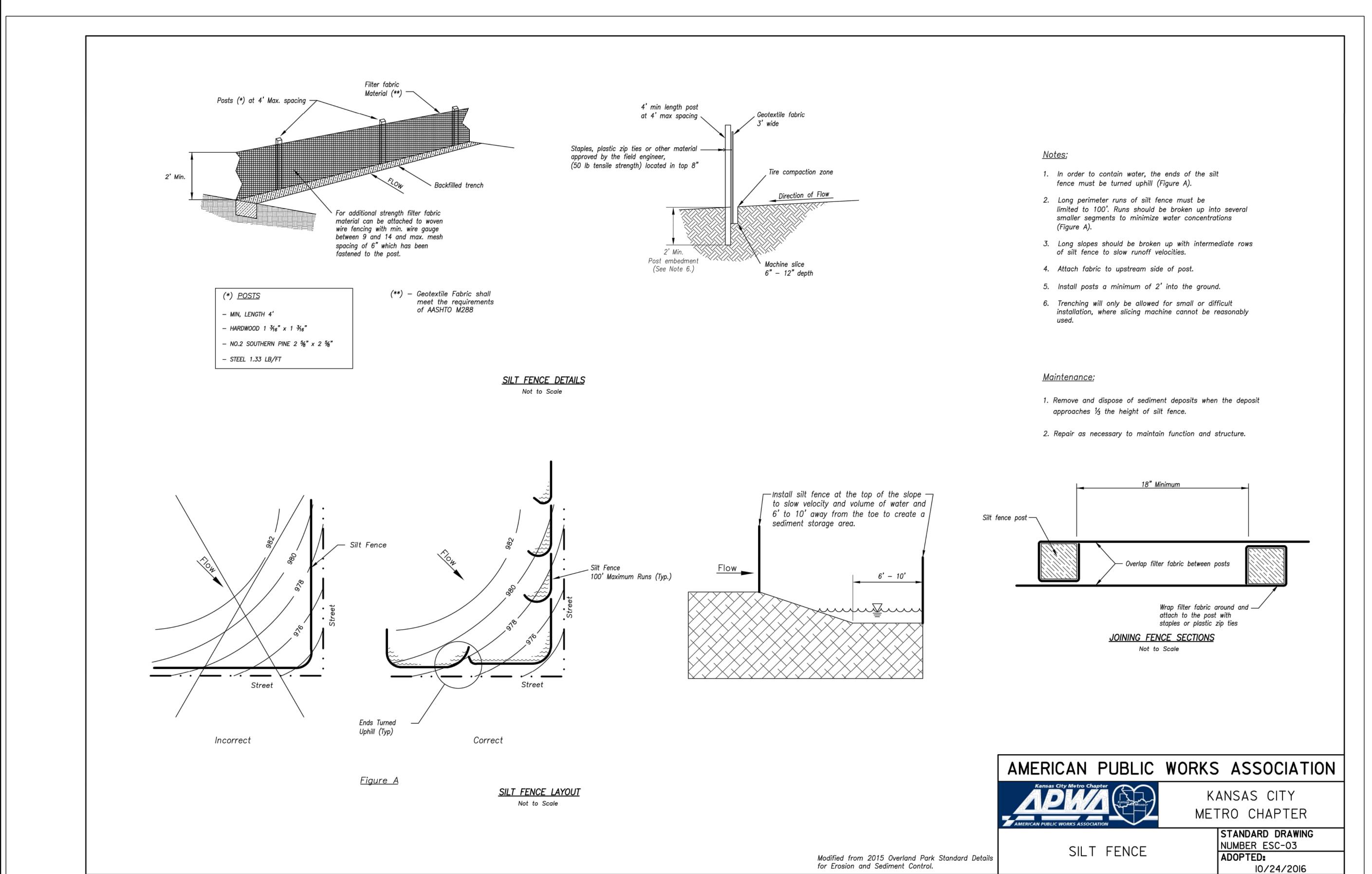
SUMMIT LOGISTICS OAD AND MAIN STREET

SCANNELL DEVELOPMENT LEE'S ORTHWEST CORNER OF TUDOR R

FLEMING

NUMBER PE-2002003161

RYAN B. FLEMING MO. NO. PE-2002003161



FLEWING NUMBER PE-2002003161 10-14-21

RYAN B. FLEMING MO. NO. PE-2002003161

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
E'S SUMMIT, MISSOURI

C.O.A. NO.: DRAWN BY: ARJ/AMW CHECKED BY: APPROVED BY: QA/QC BY: PROJECT NO.: 021-04157
DWG NO.: T_ERCD_02104157
DATE: 2021-10-14

SHEET 55 OF 105

NUMBER PE-2002003161

RYAN B. FLEMING MO. NO. PE-2002003161

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
EE'S SUMMIT, MISSOURI

C.O.A. NO.: DRAWN BY: ARJ/AMW CHECKED BY: XXX RBF APPROVED BY: QA/QC BY: PROJECT NO.: 021-04157
DWG NO.: T_ERCD_02104157
DATE: 2021-10-14

STANDARD DRAWING

10/24/2016

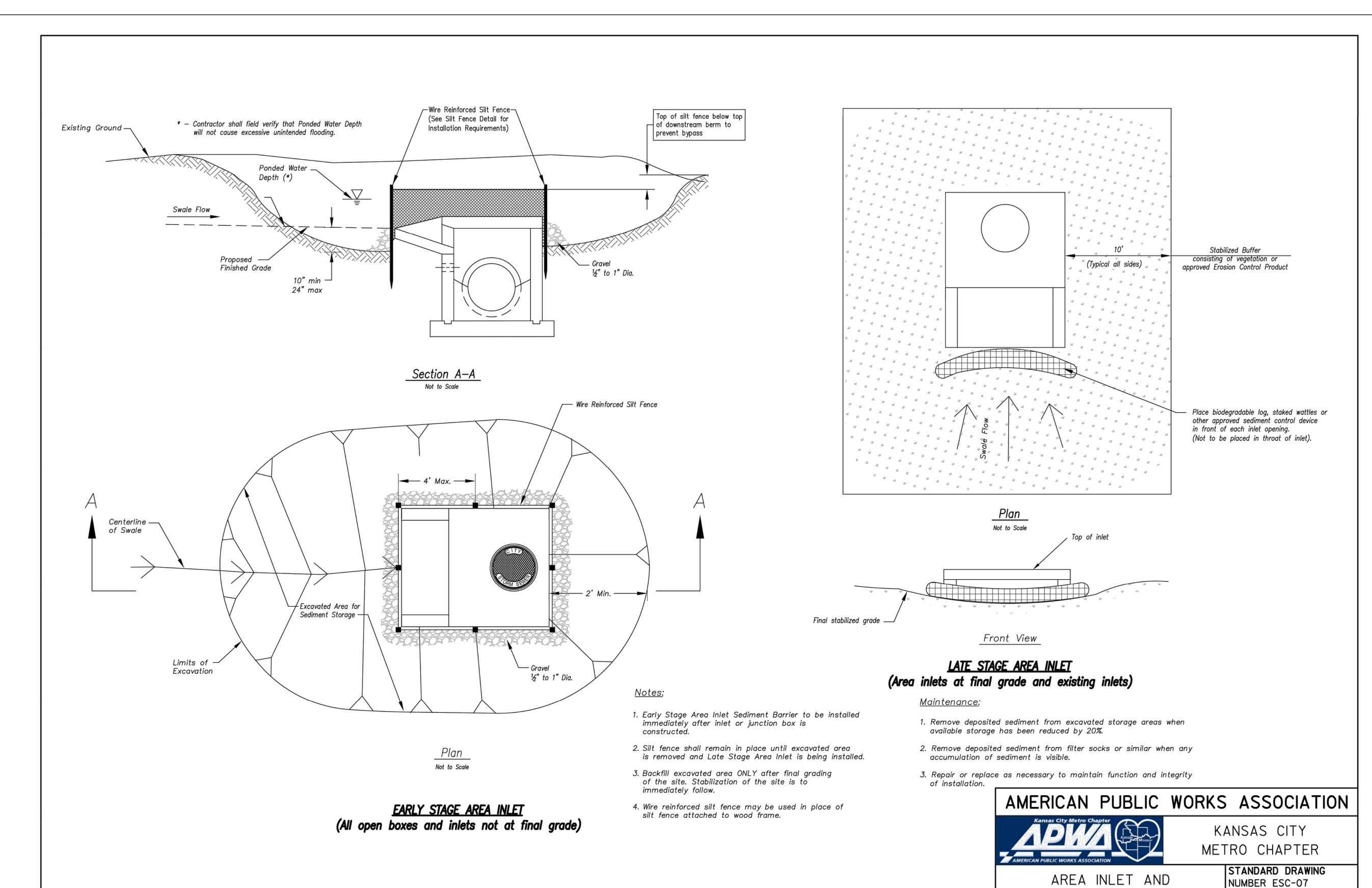
NUMBER ESC-06

ADOPTED:

CURB INLET PROTECTION

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

SHEET 56 OF 105



Modified from 2015 Overland Park Standard Details

for Erosion and Sediment Control.

NUMBER

RYAN B. FLEMING MO. NO. PE-2002003161

'S SUMMIT LOGISTICS ROAD AND MAIN STRE

SCANNELL DEVELOPMENT LEE'S ORTHWEST CORNER OF TUDOR R

C.O.A. NO.: DRAWN BY: ARJ/AMW CHECKED BY: APPROVED BY: QA/QC BY: PROJECT NO.: 021-04157 DWG NO.: T_ERCD_02104157

ADOPTED:

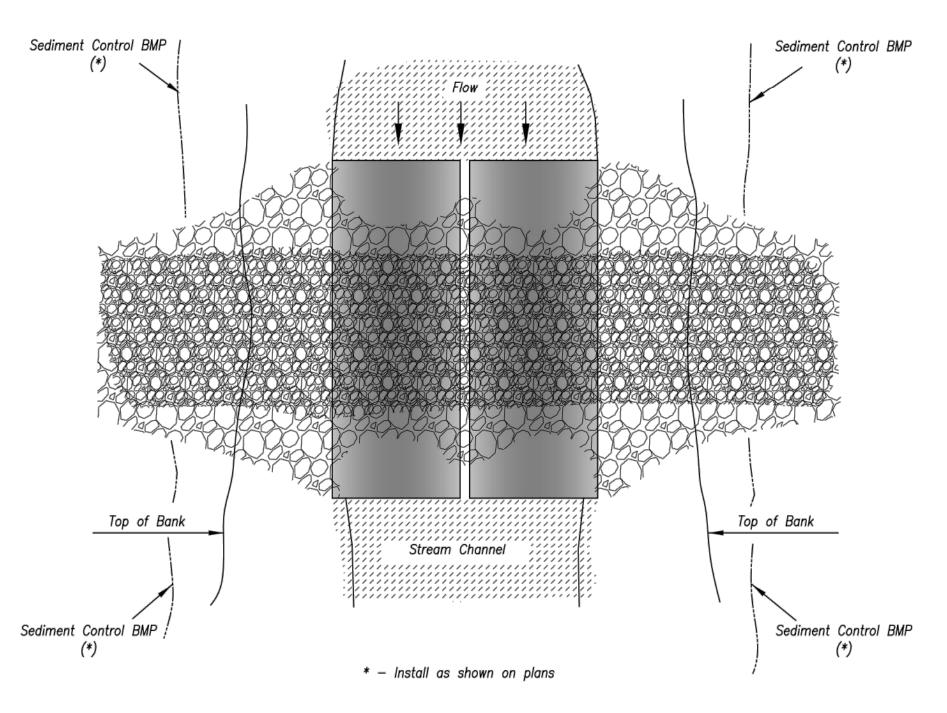
10/24/2016

JUNCTION BOX PROTECTION

SHEET 57 OF 105

Notes for Temporary Stream Crossing:

- 1. Clearing and excavation of the stream bed and banks shall be kept to a minimum.
- 2. Place one pipe, buried 6" into the stream bottom, at the lowest point of the channel to allow the passage of aquatic organisms. Additional pipes shall be placed along the remainder of the stream channel bottom such that ordinary high water (OHW) flows designated in the Contract Documents shall flow through the pipes without overtopping the crossing. (See Specification for more information).
- 3. Geotextile shall be placed on the streambed and streambanks prior to placement of the pipe culvert and aggregate. The geotextile shall cover the streambed and extend a minimum of 6 inches and a maximum of 1 foot beyond the end of culvert and bedding material. Filter cloth reduces settlement and improves crossing stability.
- 4. The culvert shall extend a minimum of 1 foot beyond the upstream and downstream toe of the aggregate placed around the culvert. In no case shall the culvert exceed 40 feet in
- 5. The culvert shall be covered with a minimum of 1 foot of aggregate. If multiple culverts are used, they shall be separated by at least 12" of compacted aggregate fill.
- 6. As soon as crossing no longer needed, all structures including culverts, bedding and geotextile materials shall be removed. Removal of the structure and clean-up of the area shall be accomplished without construction equipment working in the channel.
- 7. Upon removal of the structure, the stream and banks shall immediately be shaped to its original cross-section and properly stabilized. Take care to minimize the amount of sediment lost into the stream.



PLAN VIEW

TEMPORARY STREAM CROSSING

Sediment Control - Flow Barrier See Stream Crossing (see Note 8) (see Note 5) (see Note 8) Place Riprap at transition STREAM DIVERSION CHANNEL

Notes for Temporary Diversion Channel:

- 1. The diversion channel crossing must be operational before work is done in the stream. Construction will be performed in
- 2. Minimum width of bottom shall be 6 feet or equal to bottom width of existing streambed, whichever is less.
- 3. Maximum steepness of side slopes shall be 2H:1V. Depth and grade may be variable, dependent on site conditions, but shal be sufficient to ensure continuous flow of water in diversion.
- 4. Channel must be lined with riprap or turf reinforcement mat depending on the expected velocity and shear stress in the
- 5. Stream diversion liners shall be secured at the upstream and downstream sides with non-erodible weights such as riprap. These weights shall allow normal flow of the stream. Soil shall not be mixed with stream diversion weights. Weights may also be needed along the diversion's length to secure liner.
- 6. Stream diversion liners shall be entrenched at the top of slopes along with a sediment control BMP.
- 7. Non-erodible materials such as riprap, Jersey barriers. sand bags, plywood, or sheet piling shall be used as flow barriers to divert the stream away from it's original channel and prevent or reduce water backup into the construction area.
- 8. Stream should be re-diverted only after backfilling and re-stabilization of original streambed and banks is completed.

Modified from 2015 Overland Park Standard Details

for Erosion and Sediment Control.

AMERICAN PUBLIC WORKS ASSOCIATION KANSAS CITY



STREAM CROSSINGS AND

STANDARD DRAWING NUMBER ESC-I3 ADOPTED: 10/24/2016

METRO CHAPTER

DIVERSION CHANNELS

APPROVED BY:

ARJ/AMW

C.O.A. NO.:

DRAWN BY:

QA/QC BY:

CHECKED BY:

'S SUMMIT LOGISTICS ROAD AND MAIN STREET

SCANNELL DEVELOPMENT LEE'S ORTHWEST CORNER OF TUDOR ROWS SUMMIT, MISSOURI

NUMBER PE-2002003161

RYAN B. FLEMING

MO. NO. PE-2002003161

PROJECT NO.: 021-04157 DWG NO.: T_ERCD_02104157 2021-10-14 SHEET 58 OF 105