



I-470 LOT 13A
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

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REVISIONS	
△	7-24-19
△	
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△	

SHEET NO.

C302

JOB NO.
E18-337

4
5

(*) Cross Section of Outlet
Not to Scale

H	H ₀	W
1.5	0.5	2.0
2.0	1.0	2.0
2.5	1.5	2.5
3.0	2.0	2.5
3.5	2.5	3.0
4.0	3.0	3.0
4.5	3.5	4.0
5.0	4.0	4.5

(*) Perspective View of Outlet
Not to Scale

(*) - The perspective view and cross section are automatic in nature. Construction plans must provide specific site construction arrangements.

Maintenance for Sediment Trap:

1. Check sediment traps after periods of significant runoff.
2. Remove sediment and restore the trap to its original dimensions when sediment accumulates to 25% of the storage capacity.
3. Immediately repair any erosion damage to the embankment and outlet.
4. Keep outlet and pool areas free of all trash and other debris.

SEDIMENT TRAP AT CULVERT OPENING
Not to Scale

Notes for Sediment Trap of Culvert Opening:

1. The best protection device shall be constructed in a manner that will facilitate clean-out and disposal of trapped sediment and requires maintenance with construction activities.
2. The best protection device shall be constructed in such manner that any residual ponding downstream will not cause excessive inconvenience or damage to adjacent areas or structures.
3. Geometry of the design will be a horseshoe shape around the culvert inlet.
4. The toe of the slope shall be no closer than 24" from the culvert opening to provide an acceptable emergency outlet for flash flows larger storm events.
5. Storage requirements equivalent to that of temporary sediment trap.
6. 67 C.F.R. Area set storage below base of slope.
7. 67 C.F.R. Area set storage from base of slope to top of slope form.

Maintenance for Sediment Trap of Culvert Opening:

1. Check sediment traps after periods of significant runoff.
2. Remove sediment and restore the trap to its original dimensions when sediment accumulates to 25% of the storage capacity.
3. Immediately repair any erosion damage to the embankment and outlet.
4. Keep outlet and pool areas free of all trash and other debris.

AMERICAN PUBLIC WORKS ASSOCIATION

 KANSAS CITY METRO CHAPTER
 STANDARD DRAWING NUMBER ESC-08
 ADOPTED: 10/24/2016
 SEDIMENT TRAPS

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

Notes:

1. Immediately following final construction and prior to construction of curb and inlet throat, protect inlet opening by installing 2" x 12" (min.) board wrapped in silt fence. Structures shall have excavated storage area on all four sides to allow settling of sediment (Early Stage Curb Inlet).
2. When inlet is completed and curb poured, filter socks or equivalent equal should be used (Late Stage Curb Inlet). Stone filter socks are not approved for curb inlet use.
3. Contractor to field verify ponding water shall not create a traffic hazard.

Maintenance:

1. Remove deposited sediment from excavated storage areas when available storage has been reduced by 25%.
2. Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
3. Repair or replace as necessary to maintain function and integrity of installation.

On Grade Curb Inlet Protection

Notes:

1. Immediately following final construction and prior to construction of curb and inlet throat, protect inlet opening by installing 2" x 12" (min.) board wrapped in silt fence. Structures shall have excavated storage area on all four sides to allow settling of sediment (Early Stage Curb Inlet).
2. When inlet is completed and curb poured, filter socks or equivalent equal should be used (Late Stage Curb Inlet). Stone filter socks are not approved for curb inlet use.
3. Contractor to field verify ponding water shall not create a traffic hazard.

Maintenance:

1. Remove deposited sediment from excavated storage areas when available storage has been reduced by 25%.
2. Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
3. Repair or replace as necessary to maintain function and integrity of installation.

AMERICAN PUBLIC WORKS ASSOCIATION

 KANSAS CITY METRO CHAPTER
 STANDARD DRAWING NUMBER ESC-06
 ADOPTED: 10/24/2016
 CURB INLET PROTECTION

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2
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SILT FENCE DETAILS
Not to Scale

(*) EGGS - MIL LENGTH 4"
- HARDWOOD 1 1/2" x 1 1/2"
- NO. 2 SOUTHERN PINE 2 1/2" x 2 1/2"
- STEEL 1.3 LB/FT

()** - Geotextile Fabric shall meet the requirements of ASTM D2875

Notes:

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

Maintenance:

1. Remove and dispose of sediment deposits when the deposit approaches 1/2 the height of all fence.
2. Repair as necessary to maintain function and structure.

SILT FENCE LAYOUT
Not to Scale

Figure A

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 KANSAS CITY METRO CHAPTER
 STANDARD DRAWING NUMBER ESC-03
 ADOPTED: 10/24/2016
 SILT FENCE

1
2
3

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

Notes:

1. Early Stage Area Inlet Sediment Barrier to be installed immediately after inlet or junction box is constructed.
2. Silt fence shall remain in place until excavated area is removed and Late Stage Area Inlet is being installed.
3. Backfill excavated area ONLY after final grading of the site. Distribution of the site is to immediately follow.
4. Wire reinforced all fence may be used in place of silt fence attached to wood frame.

LATE STAGE AREA INLET
(Area inlets at final grade and existing inlets)

Maintenance:

1. Remove deposited sediment from excavated storage areas when available storage has been reduced by 25%.
2. Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
3. Repair or replace as necessary to maintain function and integrity of installation.

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 KANSAS CITY METRO CHAPTER
 STANDARD DRAWING NUMBER ESC-07
 ADOPTED: 10/24/2016
 AREA INLET AND JUNCTION BOX PROTECTION

△ UPDATED DETAILS

SITE ESC DETAILS