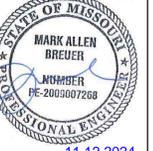




PREPARED BY:



11.12.2024

SCHLAGEL & ASSOCIATES, P.A.

**PERGOLA PARK 6TH PLAT**  
**MASS GRADING AND EROSION SEDIMENT CONTROL PLANS**  
**----- LEE'S SUMMIT, MISSOURI**

REVISION DATE	DESCRIPTION
11-8-24	CITY COMMENTS

PRE CONSTRUCTION EROSION CONTROL SHEET

LEGEND	
	TEMP. CONSTRUCTION ENTRANCE AND STAGING AREA
	CONCRETE WASHOUT AREA
	BMP PLAN REF. NO.
	SILT FENCE FOR INLET PROTECTION PRIOR TO STRUCTURE TOP
	EXCESS MATERIAL STOCK PILE LOCATION
	SILT FENCE (PRIOR TO LAND DISTURBANCE)
	SILT FENCE (DURING CONSTRUCTION)
	LIMITS OF DISTURBANCE
	EXISTING CONTOURS
	PROPOSED CONTOURS
	GRAVEL FILTER FOR STORM SEWER STRUCTURES ONLY

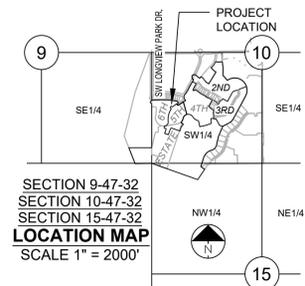
EROSION AND SEDIMENT CONTROL STAGING CHART				
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	2	EXISTING INLET PROTECTION	E	PLACE WHERE INDICATED. REPAIR OR REPLACE AS NECESSARY AND REMOVE ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED
B - MASS GRADING	3	SILT FENCE (DURING CONSTRUCTION)	E	PLACE WHERE INDICATED. REPAIR OR REPLACE AS NECESSARY AND REMOVE ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED
	4	CONCRETE WASHOUT AREA	E	MAINTAIN, REPAIR, OR REPLACE AS NECESSARY
C - UTILITY CONSTRUCTION	5	INLET PROTECTION (SILT FENCE)	D/E	PLACE SILT FENCE AROUND ALL STORM SEWER STRUCTURES / YARD AREA STORM STRUCTURES TO HAVE SILT FENCE REMOVED ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED
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D - AFTER PAVING OPERATIONS	7	INLET PROTECTION (GRAVEL FILTER BAGS)	E	BOARDS SHALL BE PLACED IN FRONT OF INLET OPENING FROM THE TIME SILT FENCE IS REMOVED UNTIL SUCH TIME THAT THE CURB / THROAT IS POURED. PLACE GRAVEL FILTER BAGS AT THE OPENING OF ALL CURB INLETS IMMEDIATELY AFTER THE INLET THROATS ARE POURED
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PRE-CLEARING PHASE  
 CONSTRUCTION PHASE  
 FINAL STABILIZATION PHASE

**DISTURBED AREA = 2.56 A.C.**

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- AREAS WITHIN PUBLIC RIGHT-OF-WAY SHALL BE SODDED IMMEDIATELY AFTER CONSTRUCTION IS COMPLETE.



**MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:**

BM JA-148, IS A STAMPED KC METRO DISK SET IN CONCRETE LOCATED 2 MILES WEST OF THE INTERSECTION OF HIGHWAY 50 AND 3RD ST. IT IS 44 FT NORTH OF THE CENTER OF 3RD ST. AND 102.5 FT WEST OF THE CENTER OF THE EXIT FROM THE ADJACENT PARKING LOT.  
 ELEV. 935.18

**PROJECT BENCHMARK:**

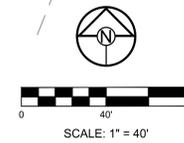
CHISELED "SQUARE" ON STORM CURB INLET AT NORTHWEST INTERSECTION OF SW. TOWER PARK DRIVE AND SW. LONGVIEW BOULEVARD.

NORTHING: 998893.4148  
 EASTING: 2803318.5413  
 ELEV. 1004.09

**SURVEY NOTES**

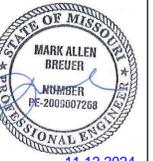
The bases of bearing and coordinates are base on the Missouri Coordinate System of 1983, West Zone (2003 Adjustment) with a Grid Factor of 0.9999020.

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SW CORNER, SW 1/4  
 SEC. 10-47-32  
 CORP OF ENGINEERS 3"  
 ALUMINUM MONUMENT

PREPARED BY:



11.12.2024

SCHLAGEL & ASSOCIATES, P.A.

**PERGOLA PARK 6TH PLAT**  
**MASS GRADING AND EROSION SEDIMENT CONTROL PLANS**  
 --- LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
11-8-24	CITY COMMENTS

CONSTRUCTION EROSION CONTROL

SHEET

3

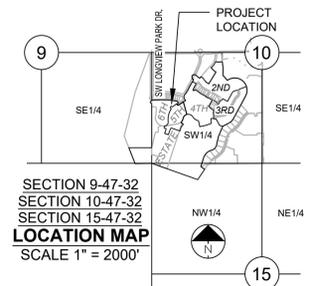
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PHASE	EROSION AND SEDIMENT CONTROL STAGING CHART				
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FINAL STABILIZATION PHASE	D - AFTER PAVING OPERATIONS	7	INLET PROTECTION (GRAVEL FILTER BAGS)	E	BOARDS SHALL BE PLACED IN FRONT OF INLET OPENING FROM THE TIME SILT FENCE IS REMOVED UNTIL SUCH TIME THAT THE CURB / THROAT IS POURED. PLACE GRAVEL FILTER BAGS AT THE OPENING OF ALL CURB INLETS IMMEDIATELY AFTER THE INLET THROATS ARE POURED
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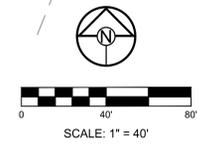
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**SURVEY NOTES**

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SW CORNER, SW 1/4  
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 CORP OF ENGINEERS 3"  
 ALUMINUM MONUMENT

REVISION DATE	DESCRIPTION
11-8-24	CITY COMMENTS
11-8-24	
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POST  
 CONSTRUCTION  
 EROSION  
 CONTROL

SHEET  
**4**

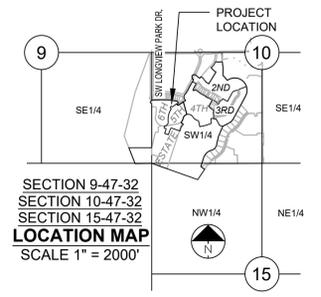
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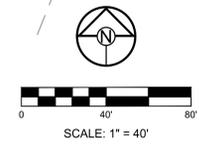
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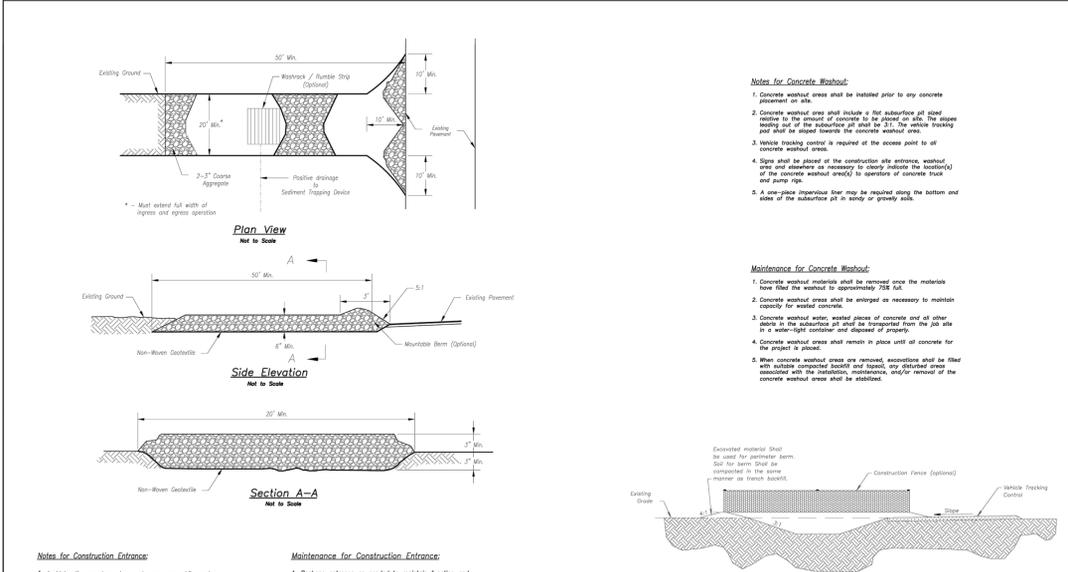
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SW CORNER, SW 1/4  
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 CORP OF ENGINEERS 3"  
 ALUMINUM MONUMENT

REVISION DATE	DESCRIPTION
11-8-24	CITY COMMENTS

DRAWN BY:	BAL
CHECKED BY:	MAB
DATE PREPARED:	8-16-24
PROJ. NUMBER:	24-041



**Notes for Concrete Washout:**

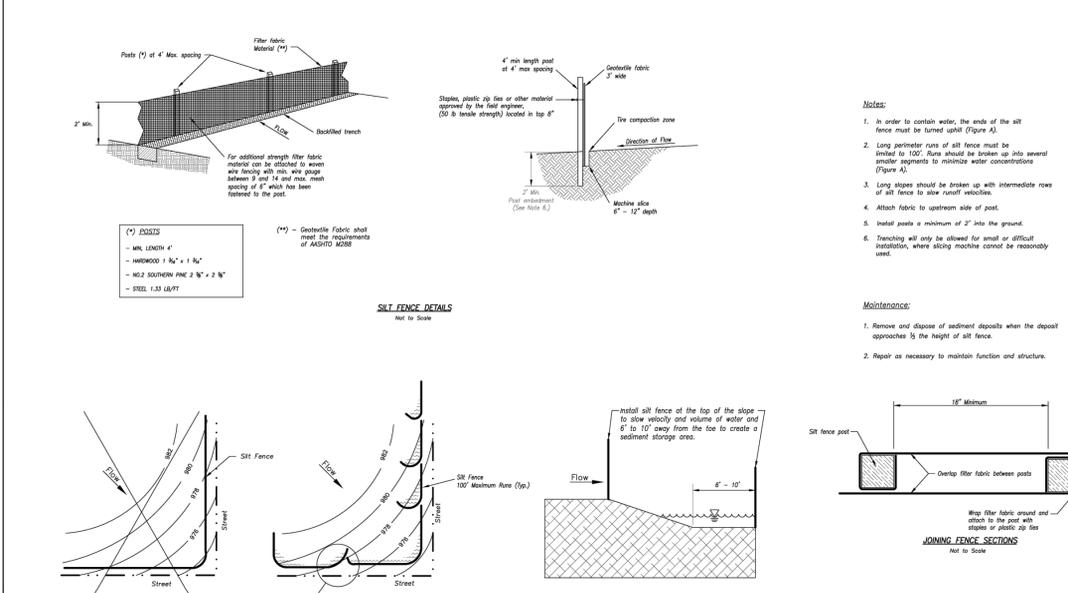
- Concrete washout areas shall be installed prior to any concrete placement on site.
- Concrete washout areas shall include a flat subsurface all steel rebar to the maximum of concrete to be placed on site. The slope leading up to the subsurface shall be 3:1. The vehicle tracking post shall be placed towards the concrete washout area.
- Vehicle tracking control is required at the access point to all concrete washout areas.
- Signs shall be placed at the construction site entrance, washout area and elsewhere as necessary to direct traffic to the location of the concrete washout area(s) to operators of concrete truck and pump rigs.
- A one-piece interlocking bar may be required along the bottom and sides of the subsurface pit in sandy or gravelly soils.

**Maintenance for Concrete Washout:**

- Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.
- Concrete washout areas shall be enlarged as necessary to maintain capacity for washed concrete.
- Concrete washout water washed pieces of concrete and all other debris in the subsurface pit shall be removed from the site via 18" x 6" mesh high concrete curb and inlet.
- Concrete washout areas shall remain in place until all concrete for the project is placed.
- When concrete washout areas are removed, excavations shall be filled with suitable compacted backfill and treated, any disturbed areas associated with the installation, maintenance, repair or removal of the concrete washout areas shall be stabilized.

**CONCRETE WASHOUT**

**AMERICAN PUBLIC WORKS ASSOCIATION**  
 KANSAS CITY METRO CHAPTER  
 STANDARD DRAWING NUMBER ESC-D1  
 ADOPTED: 10/24/2016



**Notes for Construction Entrance:**

- Avoid locating on steep slopes, at curves on public roads, or adjacent to distressed areas.
- Remove all vegetation and other unsuitable material from the foundation area, grade, and crown for possible drainage.
- If slope towards the public road exceeds 2%, construct a 6"- to 8"-inch high ridge with 3:1:1V side slopes across the foundation approximately 15 feet from the edge of the public road to divert runoff from it.
- Install pipe under the entrance if needed to maintain drainage ditches along public roads.
- Place stone to dimensions and grade as shown on plans. Leave surface sloped for drainage.
- Direct all surface runoff and drainage from the entrance to a sediment control device.
- If conditions warrant, place geotextile fabric on the graded foundation to improve stability.

**Maintenance for Construction Entrance:**

- Reinspect entrance as needed to maintain function and integrity of installation. Top areas with clean aggregate as needed.

**CONSTRUCTION ENTRANCE**

**Notes for Silt Fence:**

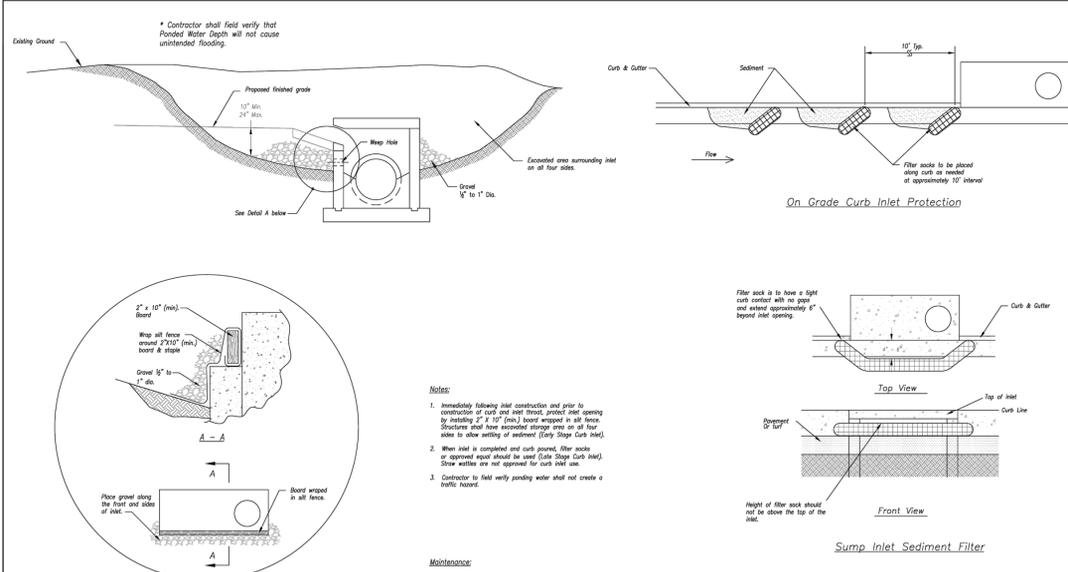
- In order to contain water, the ends of the silt fence must be turned uphill (Figure A).
- Long perimeter runs of all fence must be broken up into several smaller segments to minimize water concentrations (Figure A).
- Long slopes should be broken up with intermediate rows of all fence to slow runoff velocities.
- Attach fabric to upstream side of post.
- Install posts a minimum of 2' into the ground.
- Traversing will only be allowed for small or difficult installation, where slope machine cannot be readily used.

**Maintenance:**

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

**SILT FENCE**

**AMERICAN PUBLIC WORKS ASSOCIATION**  
 KANSAS CITY METRO CHAPTER  
 STANDARD DRAWING NUMBER ESC-03  
 ADOPTED: 10/24/2016



**Notes:**

- Immediately following inlet construction and prior to construction of curb and street front, protect inlet opening by installing 2" x 2" (min.) board exposed on all four sides to allow settling of sediment (Early Stage Curb Inlet).
- When inlet is completed and curb poured, filter socks or approved equal should be used (Late Stage Curb Inlet). Show details are not approved for curb inlet use.
- Contractor to field verify ponding water shall not create a traffic hazard.

**Maintenance:**

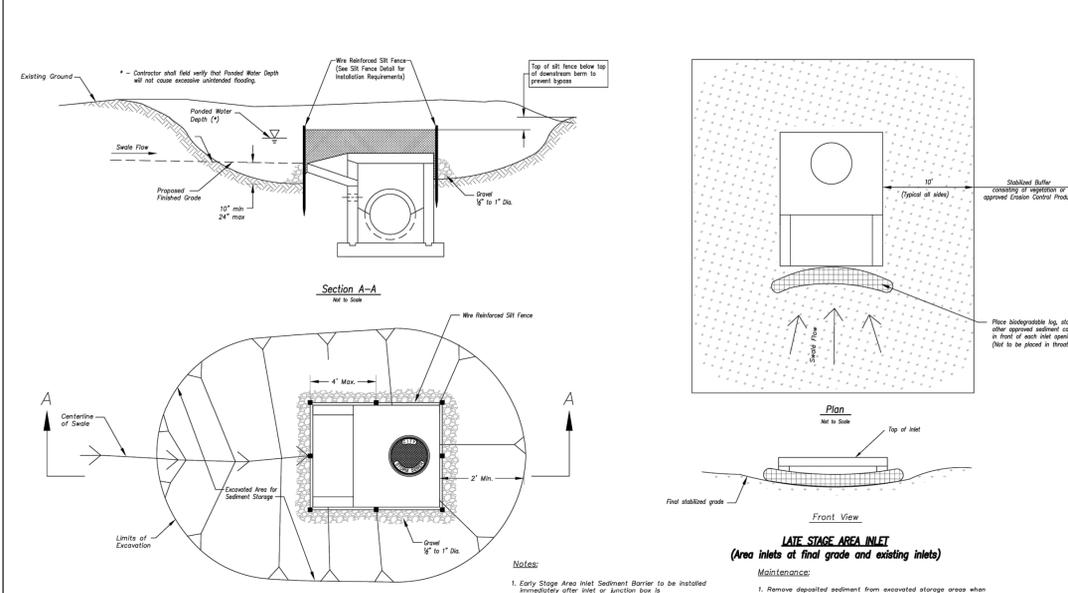
- Remove deposited sediment from excavated storage areas when available storage has been reduced by 20%.
- Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
- Repair or replace as necessary to maintain function and integrity of installation.

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

**ON GRADE CURB INLET PROTECTION**

**SUMP INLET SEDIMENT FILTER**

**AMERICAN PUBLIC WORKS ASSOCIATION**  
 KANSAS CITY METRO CHAPTER  
 STANDARD DRAWING NUMBER ESC-06  
 ADOPTED: 10/24/2016



**Notes:**

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

**Maintenance:**

- Remove deposited sediment from excavated storage areas when available storage has been reduced by 20%.
- Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
- Repair or replace as necessary to maintain function and integrity of installation.

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

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

**AMERICAN PUBLIC WORKS ASSOCIATION**  
 KANSAS CITY METRO CHAPTER  
 STANDARD DRAWING NUMBER ESC-07  
 ADOPTED: 10/24/2016

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