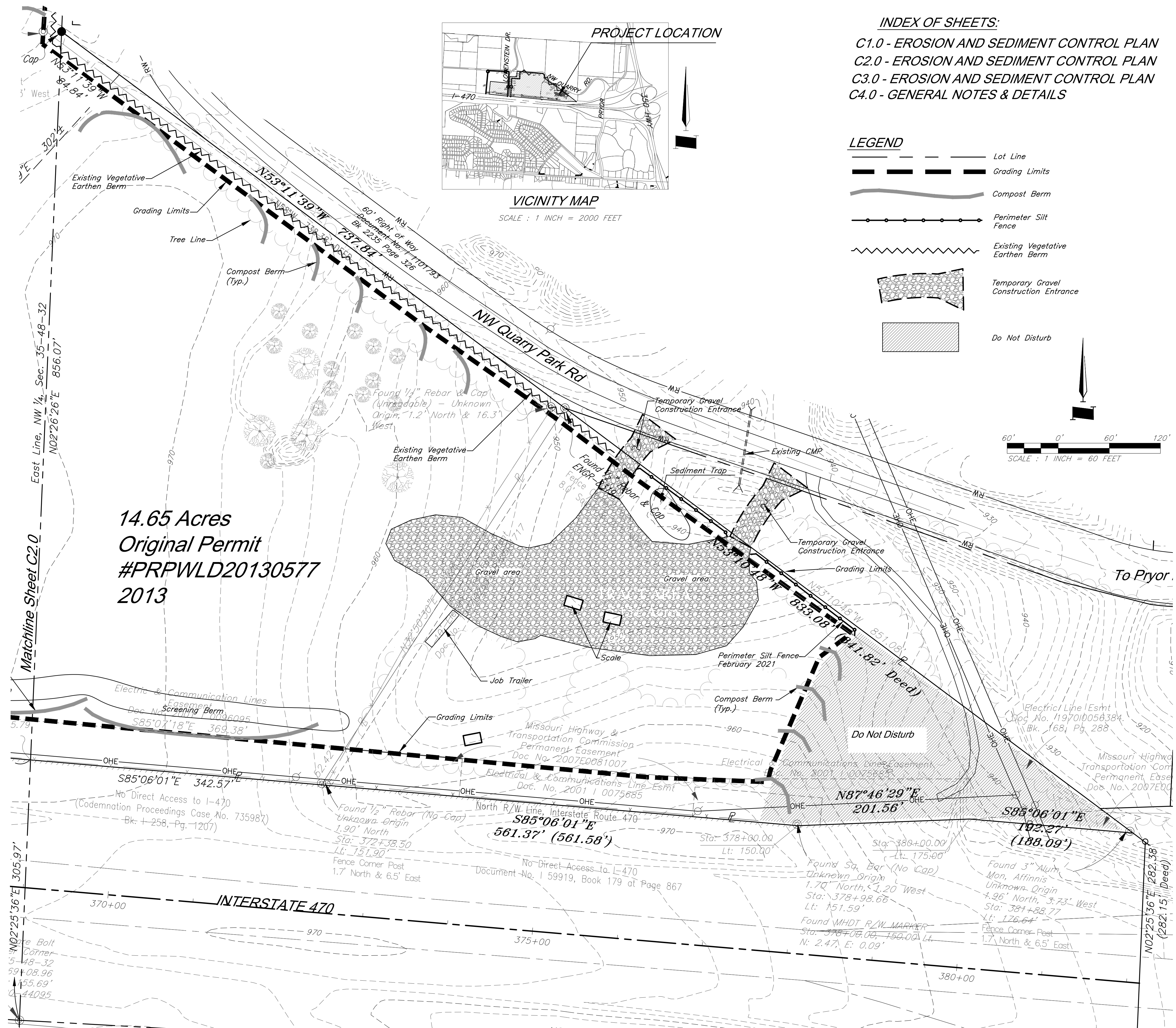
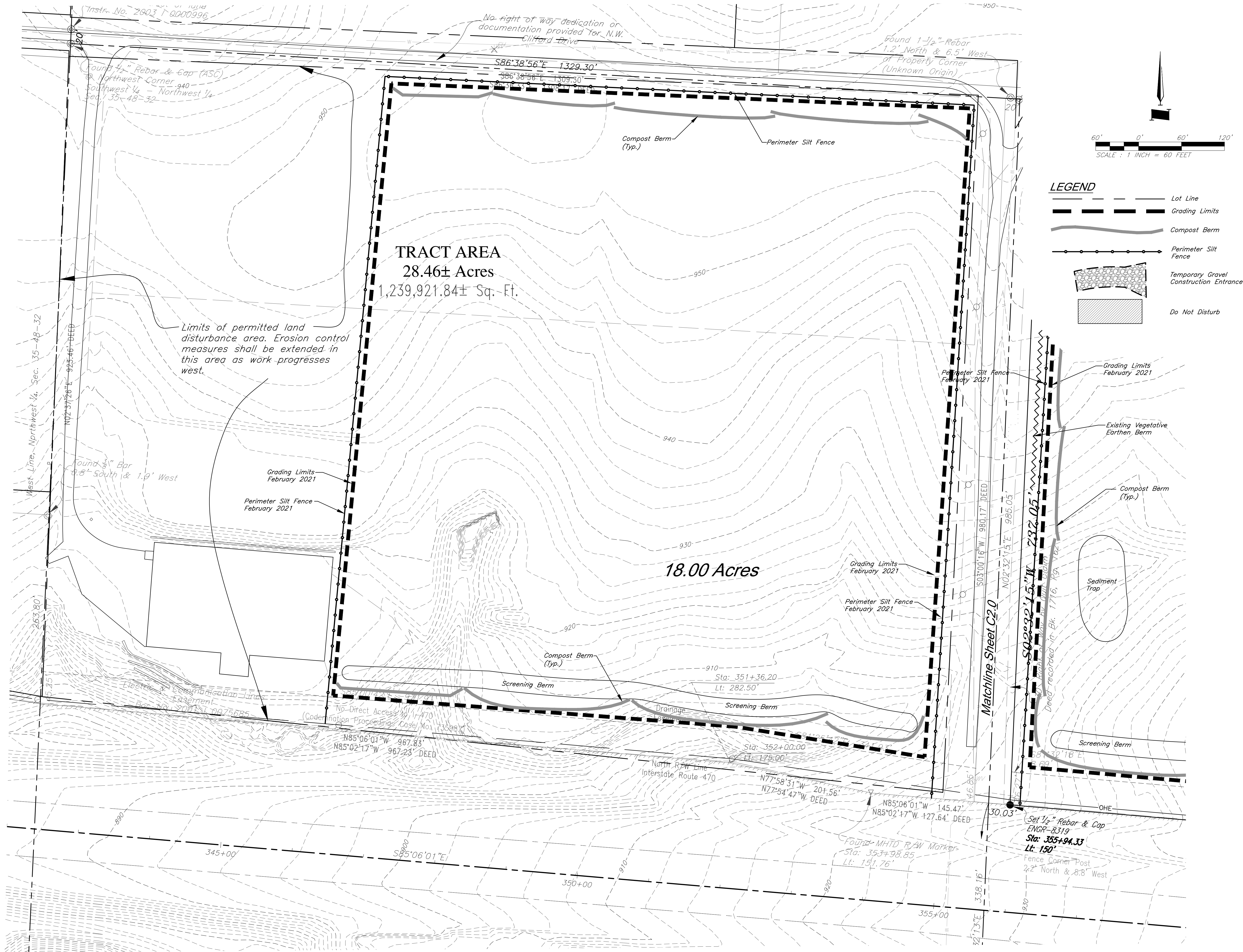


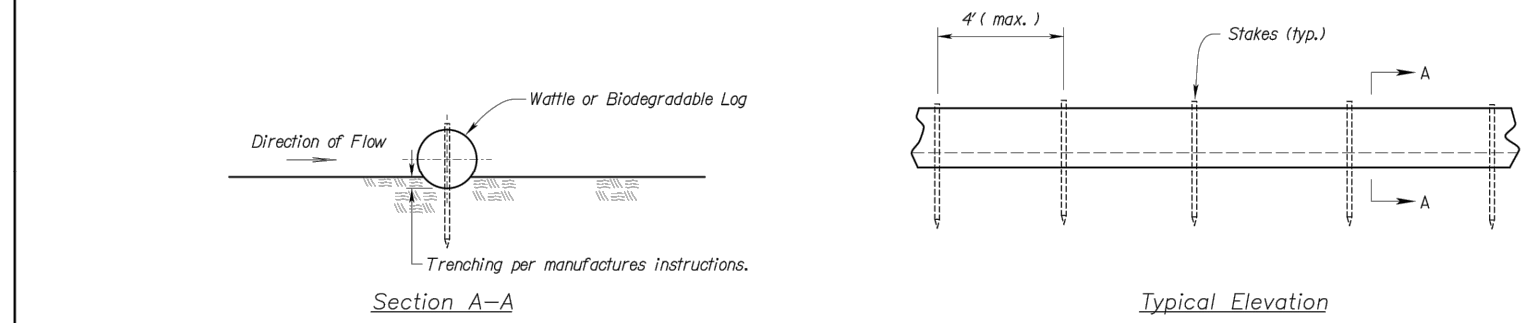






Sediment Control General Notes:

- The construction covered by these plans shall conform to all applicable standards and specifications of the Lee's Summit design and construction manual.
- Except where necessary to install erosion and sediment control devices, clearing activities shall not begin until all erosion and sediment control devices have been installed.
- The contractor shall provide for control of surface erosion and sediment deposition during all phases of construction and until the owner accepts the work as complete. The contractor shall provide temporary seeding, berms, silt fence, sediment traps or other means to prevent sediment from reaching the public right-of-way, streams or adjacent property. In the event the prevention measures are not effective, the contractor shall remove any debris sediment and restore the right-of-way and adjacent property to its original or better condition.
- All land disturbances, including residential and commercial development projects, shall provide adequate erosion control to protect public streets, public storm sewer systems, adjacent property, streams, and surface waters from being polluted with sediment and silt.
- Contractor shall keep the entire project site free of debris and trash at all times. Contractor shall execute work using methods that minimize excessive noise or dust emissions. Contractor shall provide methods, means and facilities to prevent contamination of soil or water from discharge of potential construction site pollutants (i.e., diesel fuel, port-a-potty waste, paints, etc.)
- Areas are not noted on the plan sheets for stockpiling of materials. Soil stockpiles shall be graded such that they do not exceed 3:1, mulch berms or another effectively equal best management practice (bmp) shall be installed completely around the down gradient perimeter of the soil stockpiles and the disturbed areas shall be seeded within 14 days once construction activities on them cease. Gravel material stockpiles shall have mulch berms or another effectively equal bmp installed completely around the down gradient perimeter of the gravel material stockpile.
- Following stripping operations, the contractor shall remove existing topsoil and stockpile the material in an approved area. Stockpiles shall be stabilized by temporary seeding and mulch berms (see note 6).
- Soil stabilizing erosion control measures as detailed in sections 215.3 of APWA shall be implemented within 14 calendar days after construction activities have temporarily or permanently ceased on any portion of the project site.
- Contractor must install and maintain the erosion and sediment control measures shown on these plans. If the engineer determines that the installation or the maintenance is inadequate, the contractor must immediately correct at his expense. If it is determined that additional erosion and sediment control measures are needed the contractor will be directed to install and maintain those measures.
- All mulch berms shall be left in place following final stabilization of the project site.
- Erosion control BMPs shall remain in place until the watershed treated by each BMP has been stabilized.



WATTLES AND BIODEGRADABLE LOG

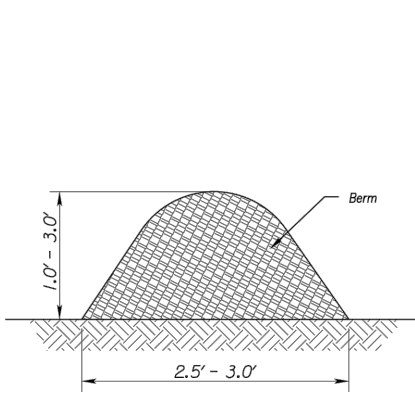


Figure 1
(Perimeter Control)

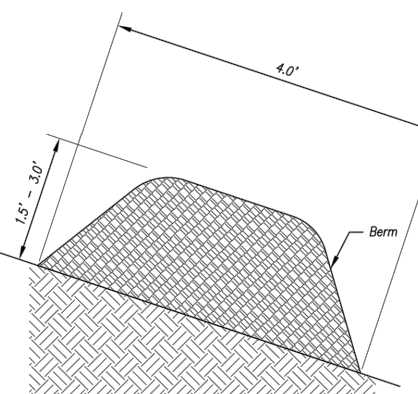


Figure 2
(Steep Slopes)

MULCH OR COMPOST FILTER BERMS

Notes for Wattles and Biodegradable Log Slope Protection:

- The slope barriers shall be placed along contour lines, with a short section turned upstage at each end of the barrier. The maximum length of the slope barrier shall not exceed 200 feet, and the barrier ends need to be staggered.
- Install wattle and biodegradable logs per manufacturer's instructions.
- Spacing of stakes per manufacturer's instructions with 4' max. spacing. Length of stakes shall be a minimum of 2 times the diameter of the log with minimum of 24".

Notes for Mulch and Compost Filter Berm:

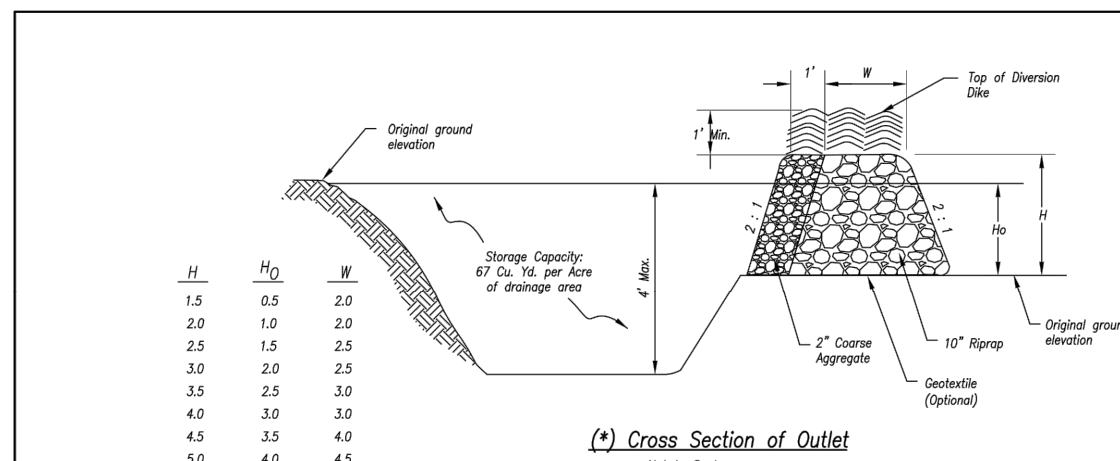
- The sediment control berm shall be placed unconsolidated in a window at locations shown on the plans or as directed by the engineer.
- Parallel to the base of the slope, or around the perimeter of other affected areas, construct a 1 to 3 foot high by 2.5 to 3 foot wide berm (see Figure 1). For maximum water treatment ability, or for steep slopes, construct a 1.5 to 3 foot high (steep) berm that is a minimum of 4 feet wide at the base (see Figure 3). In extreme conditions, or where specified by the engineer, a second berm shall be constructed at the top of the slope. Engineer will specify berm requirements.
- If berm is to be left as permanent or part of the natural landscape, the compost berm may be seeded using appropriate for permanent vegetation.
- Do not use compost or wood mulch berms in any runoff channels or concentrated flow areas.
- Wood mulch shall consist of tree and shrub debris resulting from clearing and grubbing and shall be ground by the mechanical means such as a chipper, hammermill, log grinder or other approved method. Mulch being come with a maximum width of 2" and a maximum length of 10".

Maintenance for Mulch and Compost Filter Berm:

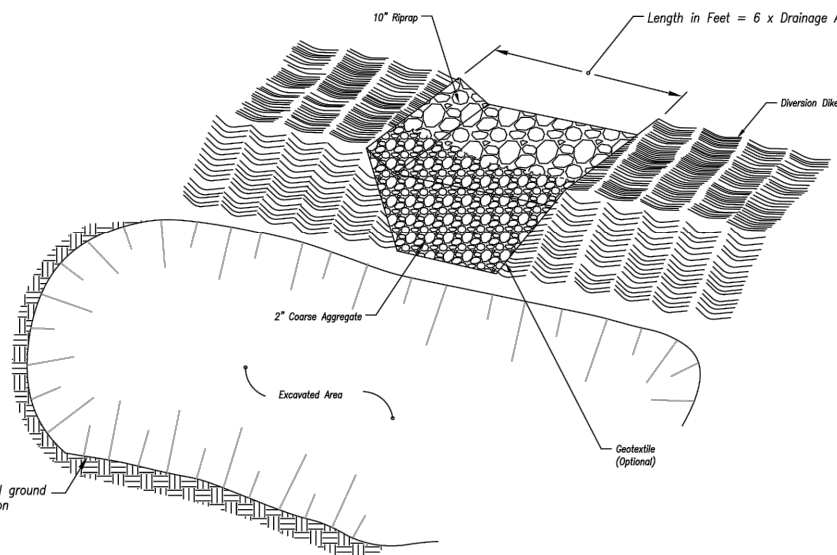
- Berm shall be reshaped and material added as necessary to maintain function and dimensions.
- Breaches in the berm shall be repaired promptly.

AMERICAN PUBLIC WORKS ASSOCIATION	
	KANSAS CITY METRO CHAPTER
WATTLES/Biodegradable LOG	STANDARD DRAWING NUMBER ESC-04
MULCH/COMPOST FILTER BERM	ADOPTED 10/24/2016

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



(*) Cross Section of Outlet



(*) Perspective View of Outlet

Notes for Sediment Trap:

- The area under the embankment shall be cleared, graded, and riprapped if any vegetation and root risk.
- Fill material for the embankment shall be free of roots or other woody vegetation, organic material, large stones, and other debris/obstacles. The embankment shall be compacted in 6-inch layers by tamping with construction equipment.
- The northern embankment shall be stabilized immediately after installation.
- Construction operations shall be carried out to minimize erosion and water pollution.
- The structure shall be removed and the area stabilized when the outlet drainage area has been stabilized.
- All cut and fill slopes shall be 2H:1V or flatter, except for sediment and storage areas which may be at a maximum 1H:1V grade.

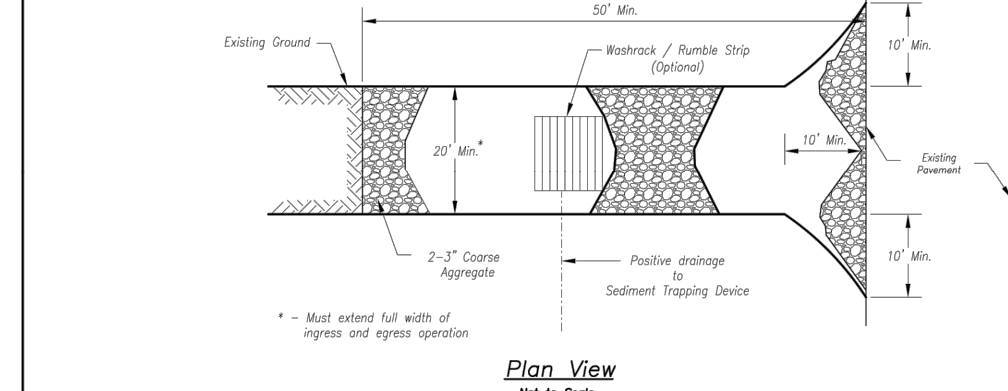
SEDIMENT TRAP

- Maintenance for Sediment Trap:
- Check sediment traps after periods of significant runoff.
 - Remove sediment and restore the trap to its original dimensions when sediment accumulation to 20% of the storage capacity.
 - Immediately repair any erosion damage to the embankment and outlet.
 - Keep outlet and pool areas free of all trash and other debris.

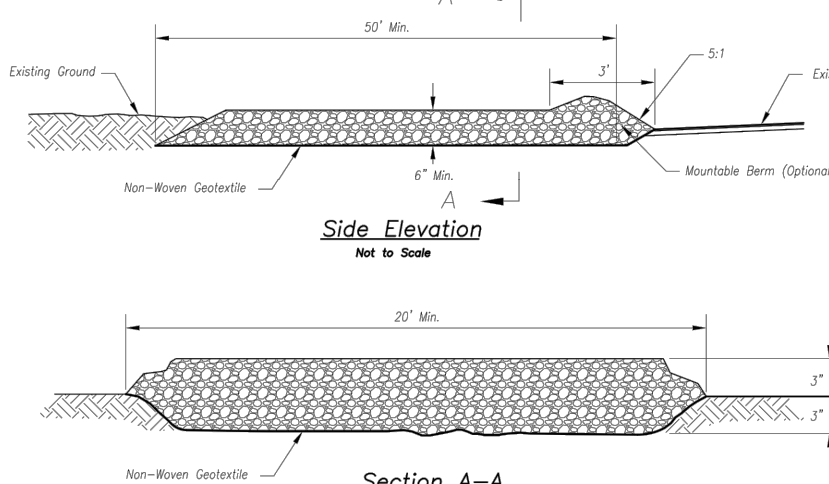
SEDIMENT TRAP AT CULVERT OPENING

AMERICAN PUBLIC WORKS ASSOCIATION	
	KANSAS CITY METRO CHAPTER
SEDIMENT TRAPS	STANDARD DRAWING NUMBER ESC-08
	ADOPTED 10/24/2016

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



Plan View
Not to Scale



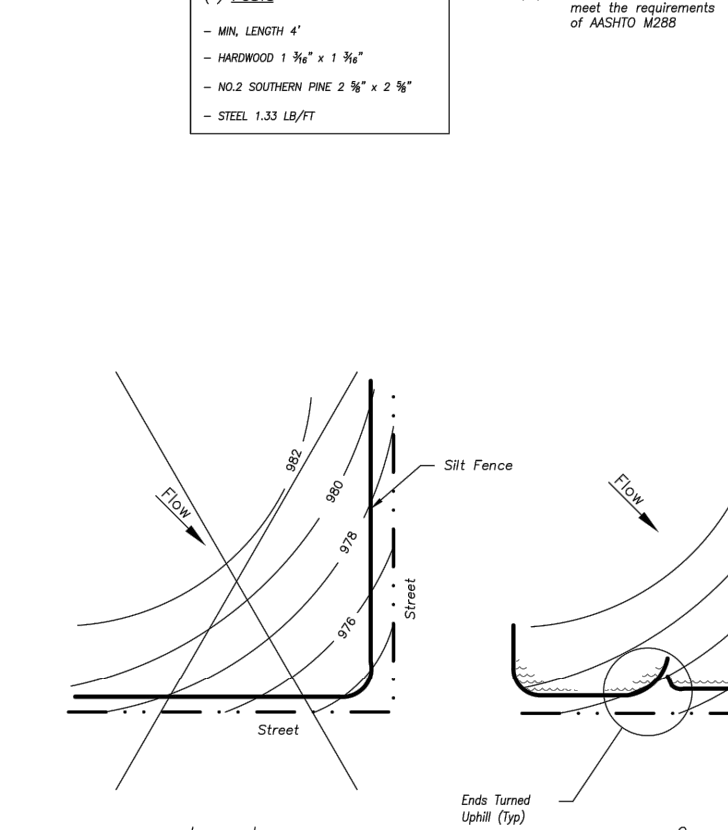
Section A-A
Not to Scale

Notes for Construction Entrance:

- Avoid loading on steep slopes, at curves on public roads, or adjacent to adjacent areas.
- Remove all vegetation and other unsuitable material from the foundation area, grade, and crown for positive drainage.
- If slope intersects the public road, 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.
- 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.

CONSTRUCTION ENTRANCE

Figure A



SILT FENCE DETAILS



SILT FENCE LAYOUT



Notes for Concrete Washout:

- Concrete washout areas shall be installed prior to any concrete placement or fill.
- Concrete washout areas shall include a flat subgrade all along the length of the concrete washout area. The concrete washout area shall be placed on a 3:1 slope. The concrete washout area shall be placed on a 3:1 slope. The concrete washout area shall be placed on a 3:1 slope.
- Vehicle loading control is required at the access point to all concrete washout areas.
- Spills shall be placed at the construction site entrance, washout area and stabilized as soon as possible. The concrete washout area shall be placed on a 3:1 slope. The concrete washout area shall be placed on a 3:1 slope.
- A one-phase impervious liner may be required along the bottom and sides of the subgrade all at once or in phases.

Maintenance for Concrete Washout:

- Concrete washout materials shall be removed once the materials have been placed in the washout area.
- Concrete washout areas shall be enlarged as necessary to maintain capacity for washed concrete.
- Concrete washout areas shall be placed on a 3:1 slope. The concrete washout area shall be placed on a 3:1 slope. The concrete washout area shall be placed on a 3:1 slope.
- Concrete washout areas shall be placed on a 3:1 slope. The concrete washout area shall be placed on a 3:1 slope. The concrete washout area shall be placed on a 3:1 slope.
- When concrete washout areas are removed, the area shall be filled with suitable compacted earth and gravel. Any disturbed area 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
CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT	STANDARD DRAWING NUMBER ESC-01
	ADOPTED 10/24/2016

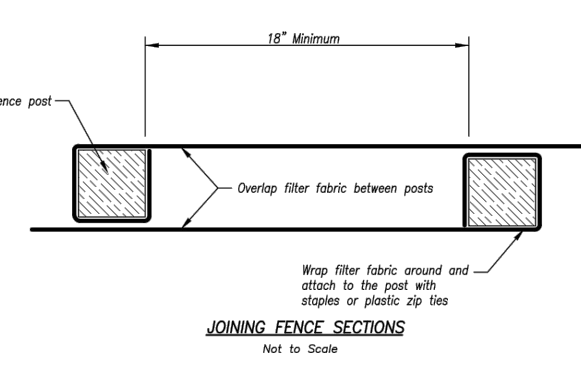
Construction Entrance modified from 2015 Overland Park Standard Details for Erosion and Sediment Control. Concrete Washout modified from 2009 City of Great Bend Standard Drawings.

Notes:

- In order to contain water, the ends of the silt fence must be turned up (Figure A).
- Long perimeter runs of silt fence must be limited to 100'. Runs should be broken up into several smaller segments to minimize water concentrations (Figure A).
- Long slopes should be broken up with intermediate rows of silt fence to slow runoff velocities.
- Attach fabric to upstream side of post.
- Install posts a minimum of 2' into the ground.
- Tranching will only be allowed for small or difficult installation, using string machine control as necessary used.

Maintenance:

- Remove and dispose of sediment deposits when the deposit approaches 50% the height of silt fence.
- Repair as necessary to maintain function and structure.



JOINING FENCE SECTIONS

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

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

PROPOSED FACILITY FOR:

STAR EXCAVATION LLC.

THE FAMILY RANCH RECLAMATION PROJECT

1470 & PRYOR ROAD
LEE'S SUMMIT, MISSOURI



10-8-21

REVISION

PROJECT NUMBER
12720.01

DATE
03/21/13
09/10/13
10/22/15
02/04/21
08/16/21

DESIGNED
DWC
DRAWN
DWC/JWM
REVIEWED
BBB
SHEET TITLE

EROSION AND SEDIMENT
CONTROL GENERAL NOTES
& DETAILS

SHEET NUMBER

C4.0

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