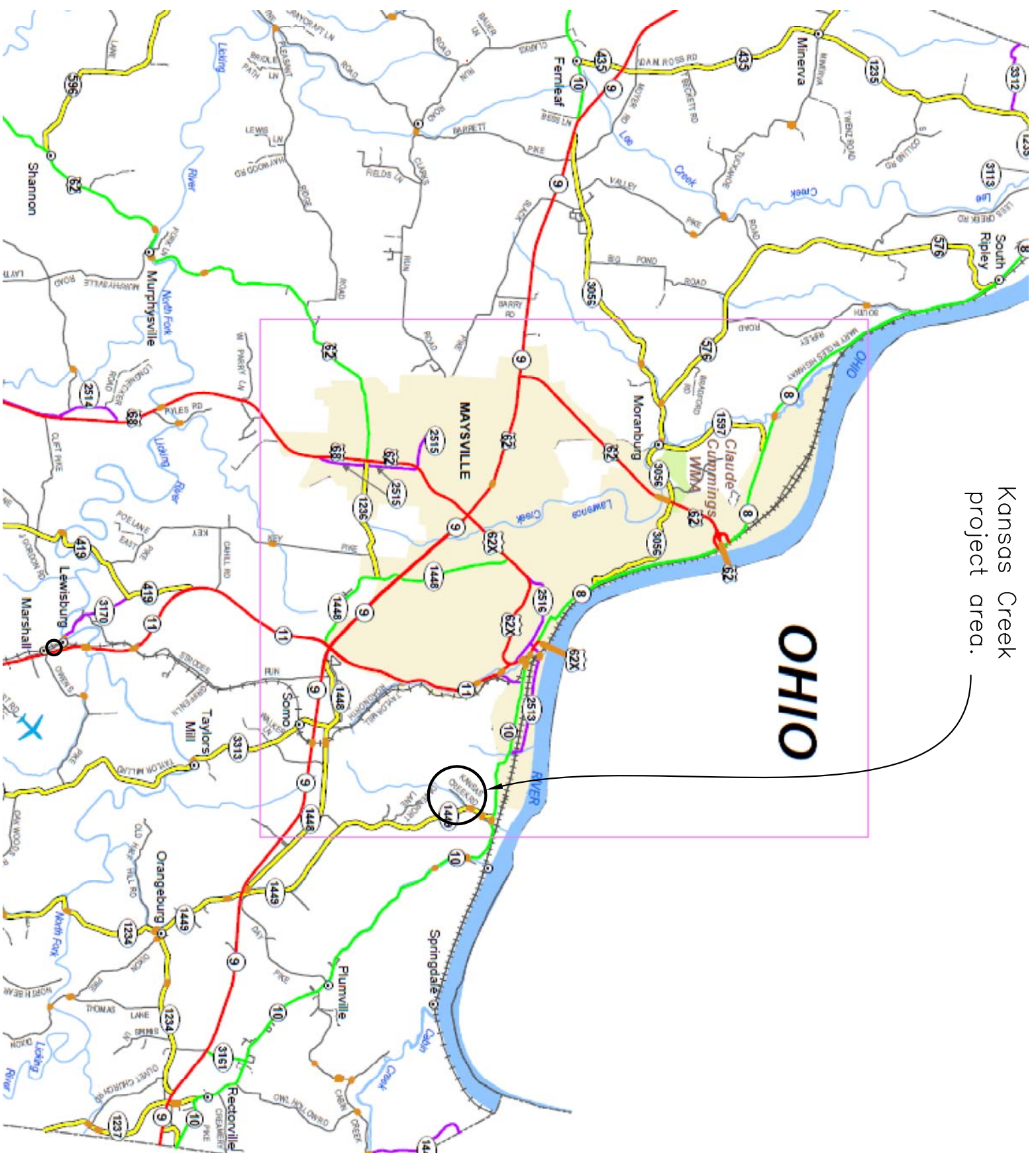


Kansas Creek project area.



OHIO

Debris Removal Project
through the
Emergency Watershed Protection Program
with the cooperation of the
Natural Resources Conservation Service
and the

Mason County Fiscal Court,
Maysville Ky.

DSR 21-161-17-01-010 2E

Design data: Job Class V, 8.6 fps, 1720 cfs
Drainage of 5 Square Miles & Length of 445 LF.

Sheet _____ Description _____ INDEX _____

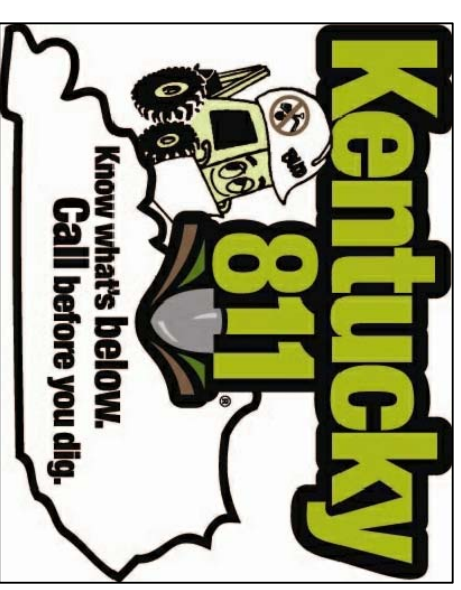
1. Cover.
2. Debris removal details.
3. Locations.
4. Site details.
5. Cross Sections

AS BUILT drawings. _____ (BY) _____ (DATE)

This project is complete to NRCS requirements to
the best of my professional knowledge. _____ (BY) _____ (DATE)

Utilities note:
the location and
marking of all utilities
both under ground and
above ground at the
construction site are
the responsibility
of the sponsor and
contractor.

Project Map
(NTS)



Designed Boyd, Imel, Williams date 02/18
Drawn Williams, Hamilton date 05/18
Checked _____ date _____
Approved _____ date _____

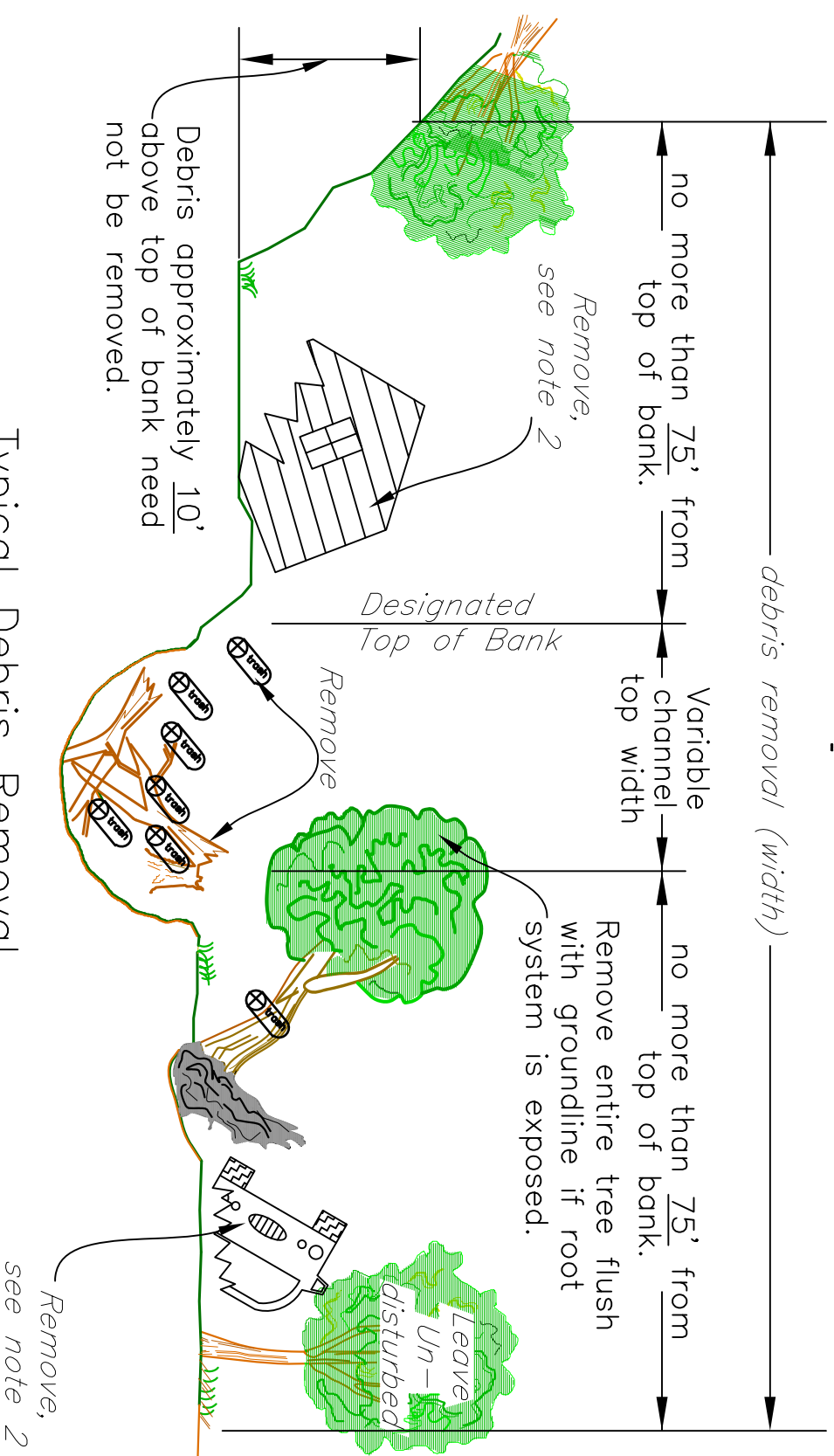
Kansas Creek
Emergency Measure EWP Project

United States
Department of
Agriculture
Natural Resources
Conservation Service

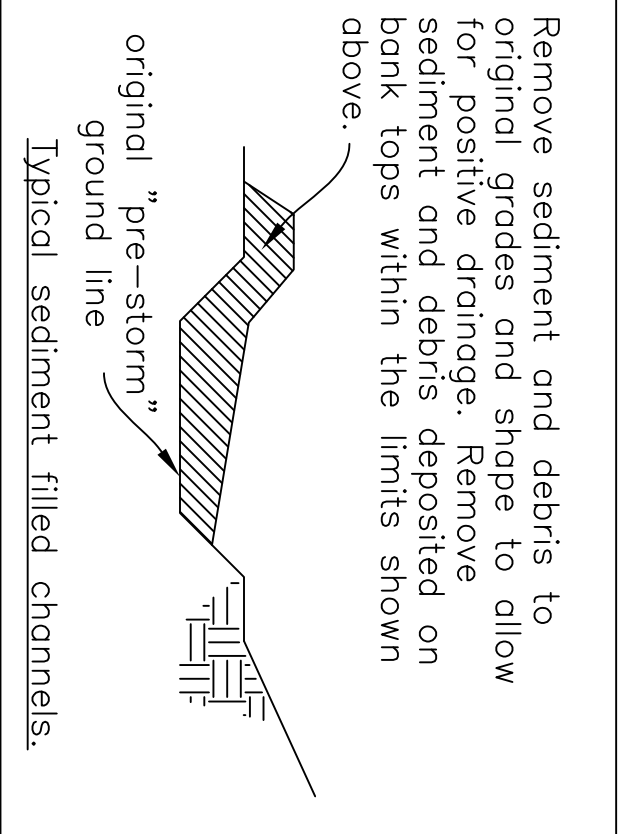
Debris Removal notes:

1. Clean out limits shall be as detailed on this sheet and as determined by NRCS representatives.
2. Any MAN-MADE MATERIAL or NATURAL MATERIAL of salvageable value to sponsor or land owner shall be moved disposed of or secured in a manner agreeable to sponsor, land owner, insurance provider and contractor.
3. BRIDGE/CULVERT DEBRIS REMOVAL. This debris removal is adjacent to or in close proximity to an existing bridge or culvert. Extreme care should be taken not to disturb any component of the bridge span, bridge abutments, or bridge piers. Any damage to the bridge or culvert is the sole responsibility of the contractor and sponsor.
4. SEDIMENT (earthen) DEBRIS REMOVAL. Sediment shall not be removed below the "pre-storm" ground line. Sediment shall be removed by the "One Step" removal process. Heavy Equipment shall operate from the top of the bank as much as possible to minimize environmental damages and help prevent future erosion and not be positioned in the channel during Debris Removal.
5. Care should be taken not to remove or damage live and rooted trees and minimize the stripping of all vegetation from the banks during the removal process. See Construction Specification 4 for Indiana Bat tree removal requirements.
6. Apply Vegetative Treatment to all areas disturbed during construction in accordance with Construction Specification 6. Approximately 0.25 acres of seeding and mulching required.
7. Woody and earthen debris removed from the reach will be placed in the designated disposal site area above the floodplain determined by local Floodplain Coordinator. Woody debris may be burned on site if all local and state burn regulations are followed. No burring in channel shall take place.
8. Man-Made debris, trash and hazardous debris removed from the reach will be disposed in a designated Landfill site or other method as determined by local Solid Waste Coordinator.

Approximately 450 LF in the channel, culvert entrances, bridge entrances and flood way as needed and or marked in field.



Typical Debris Removal
CROSS SECTION



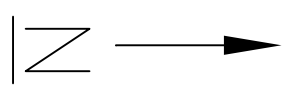
Remove sediment and debris to original grades and shape to allow for positive drainage. Remove sediment and debris deposited on bank tops within the limits shown above.

Large walnut tree in bank, power pole and over head utilities as needed will be moved by Sponsor

445 LF of steel rail wall, see sheet 4 for details

Upstream end of steel rail wall at 1+75.

Downstream edge of private bridge at 1+60.



0+00

creek flow

1+60

3+75

6+15

7+52

road

Location
Kansas Creek (Road)

NOTE:
Any additional work required for road at sites to meet KY DOH safety requirements are the responsibility of the Sponsor.

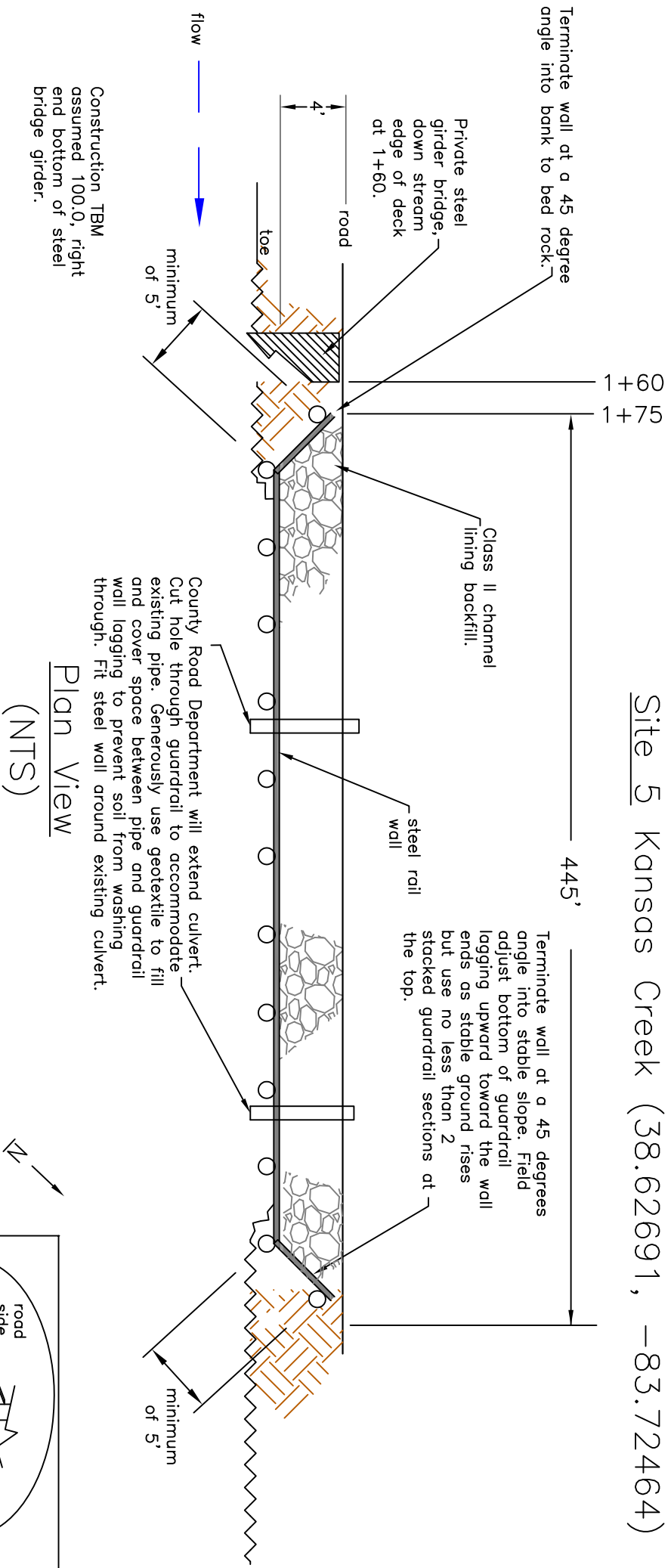


Scale

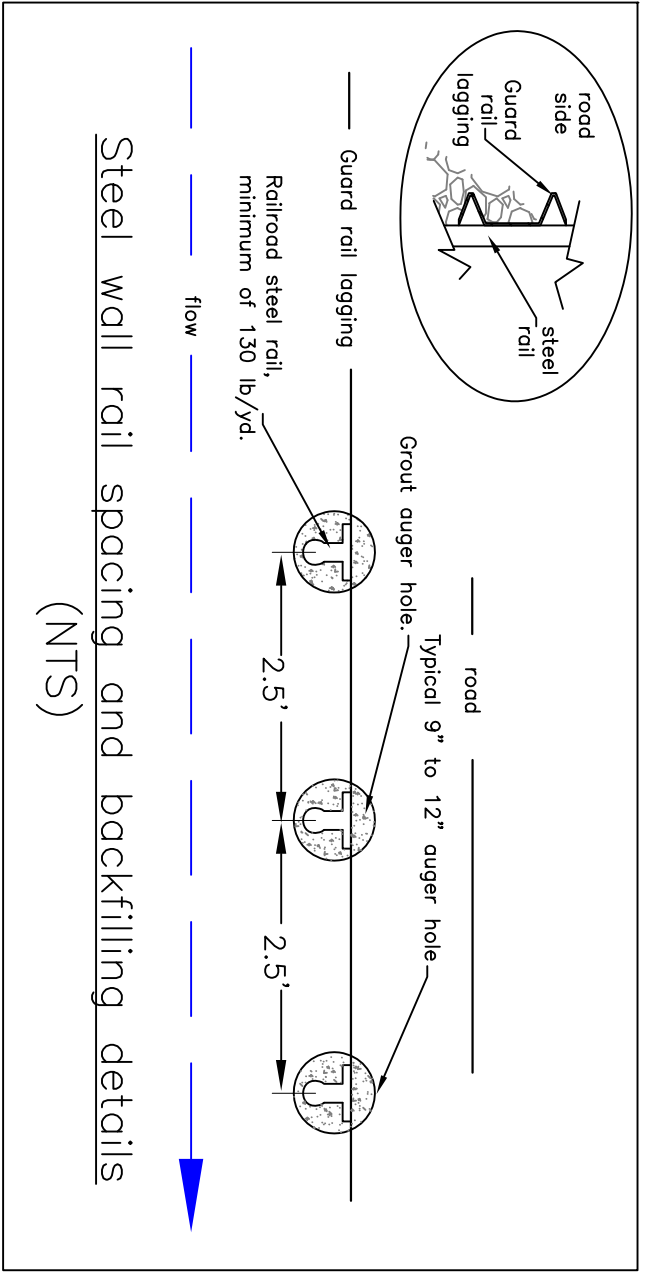
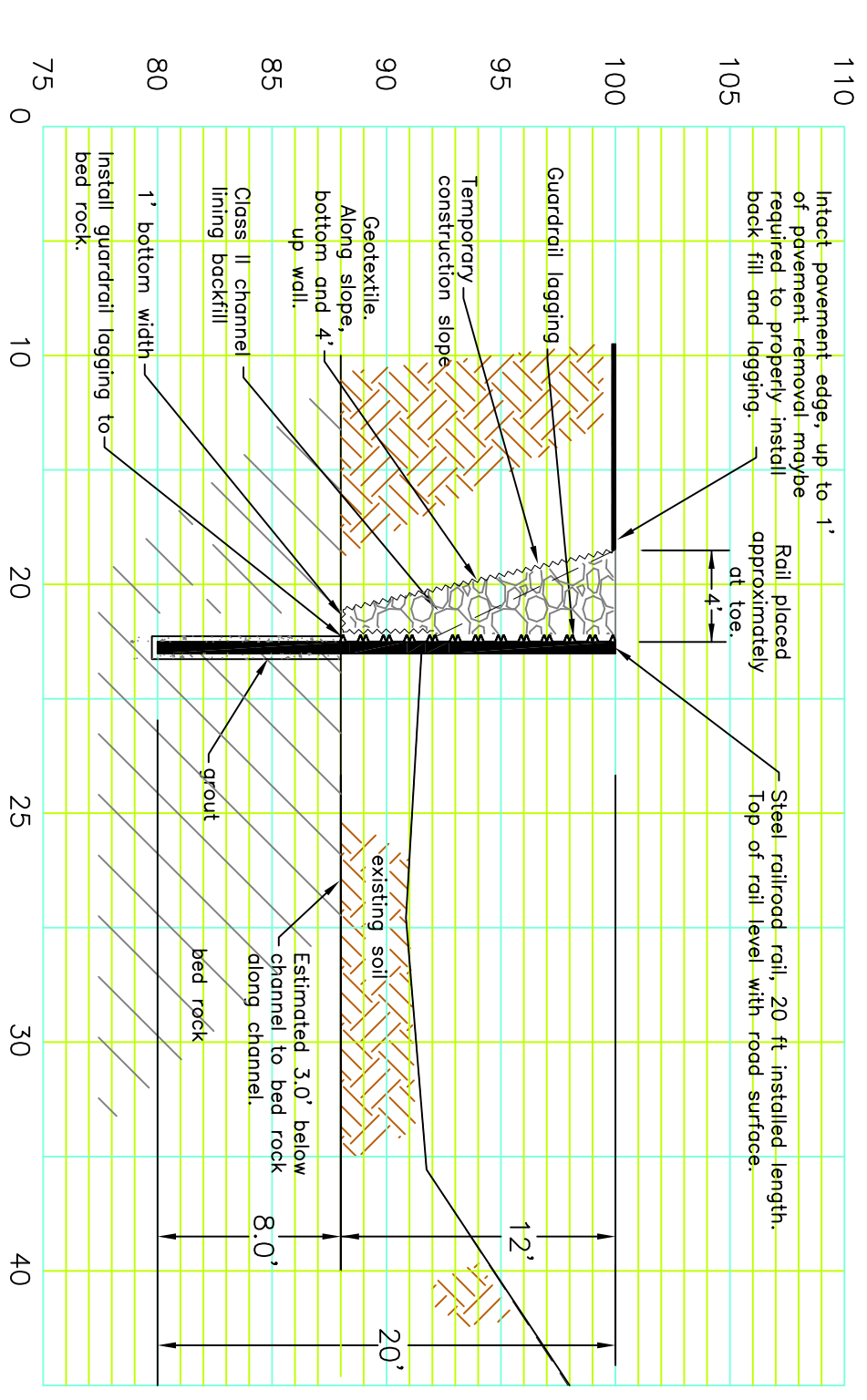
Designed Boyd,Imel,Williams date 02/18
 Drawn Williams date 05/18
 Checked _____ date _____
 Approved _____ date _____

Kansas Creek
Emergency Measure EWP Project

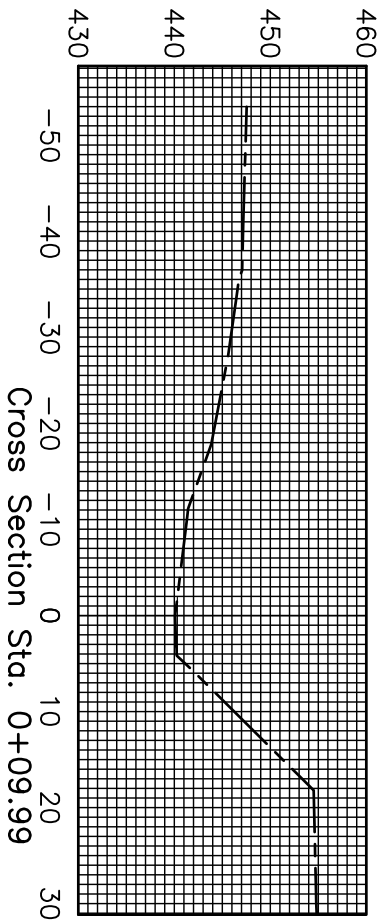
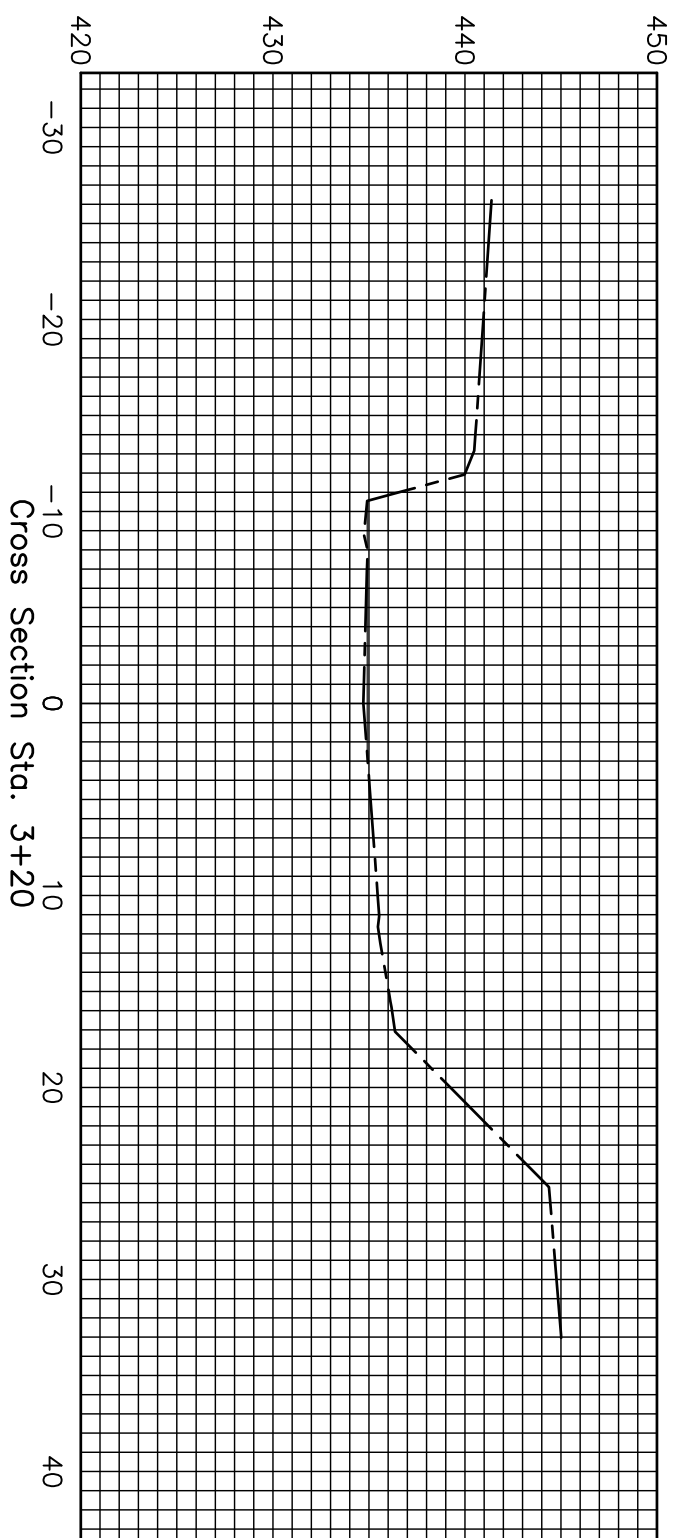
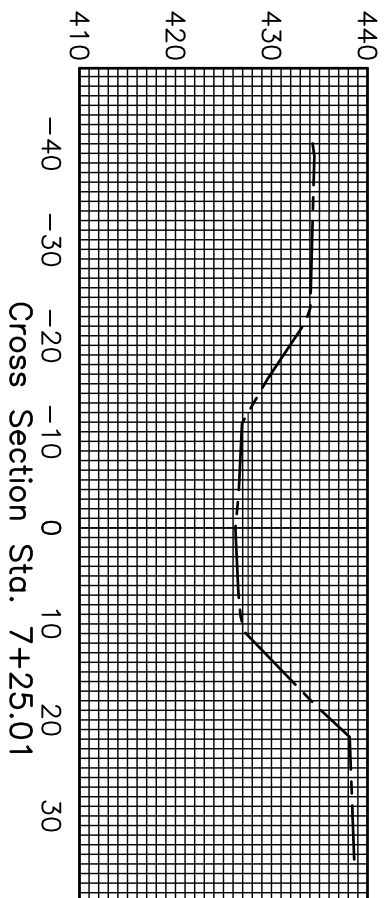
Site 5 Kansas Creek (38.62691, -83.72464)



Existing site looking from creek upstream at upper end of site.



ESTIMATED QUANTITIES				
Bid Item	Description	Specification	unit	estimated quantity
1	Channel Clearing / Debris Removal		LS	1 (500 LF)
2	Seeding and mulching		LS	1 (0.25 AC)
4	Grouting		CY	55
5	Rock Riprap, Class II channel lining		TON	1000
6	Steel, Railroad Rail		LF	3580
7	Steel, Guard Rail		LF	5876
8	Geotextile		SY	1000



Date

Designed: _____
 Drawn: *RJH* _____ *3/1/18*
 Checked: _____
 Approved: _____

SECTIONS
 Emergency Measure EWP Project
 NRCS

Kansas, Creek

Mason County, Kentucky



File No. *Kansas.dwg*
 Drawing No. _____
 3/1/18 2:27 PM
 Sheet 5 of 5.