

Knox County

S.R. 62, Western Avenue From Texas Ave. to Major Ave.

Pre-Bid Meeting

September 16, 2016



Agenda

- 1. Presentation of Project
- 2. Discussion of Critical Areas
 - a) Utilities
 - b) Railroad
 - c) Phase Zero Work
 - d) Structures
 - e) Retaining Walls
 - f) Environmental
 - g) City of Knoxville
 - h) SP 108B
- 3. Questions



Project Staff

TDOT Headquarters

- Jay Norris Assistant Director, Construction Division
- Adam Price Civil Engineering Manager 1, Structures Division

TDOT Region 1 Staff

Design Consultant – Neel-Schaffer, Inc.

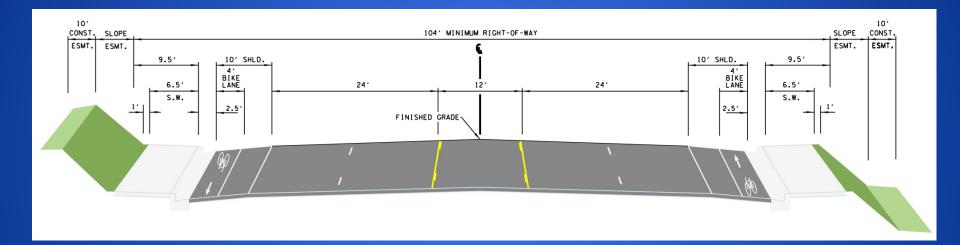
- Michael Agnew
- Steve Lamm

SWPPP Consultant – Arcadis

• Jeff Hoilman



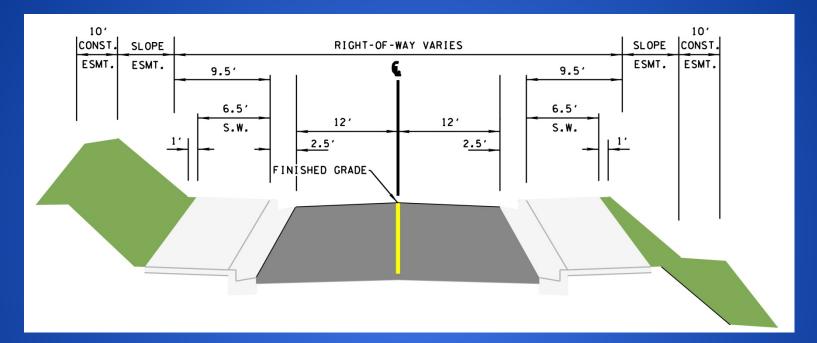
General Overview



SR 62 Western Avenue Proposed Typical Section



General Overview



Keith Avenue Proposed Typical Section



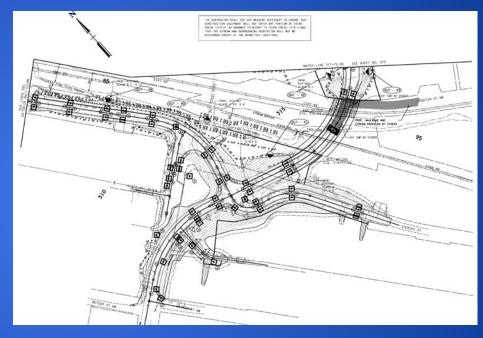
Utilities

- 1. General Overview
 - a. Critical Relocations in Each Phase
- 2. Gerdau Commitments
- 3. KUB
 - 1. Specs (01110 & 01130)
 - 2. Pre-Order of Poles
- 4. AT&T
 - a. Temporary Work
 - b. Calendar Days



Railroad

- 1. Tunneling
- 2. Haul Road
- 3. Additional Work
 - a. Storm Drainage
 - b. Sanitary Sewer
- 1. Flagging



Haul Road Location



Railroad

Schedule of Availability Dates

- Phase I Tunneling and Jack & Bore Work Under CSXT and KXHR August 1, 2017
- Phase II Utility Work within Railroad Right of Way October 1, 2017
- Phase III Project Clearing Work and Bridge No. 2 Haul Road May 1, 2017



Phase Zero Work

- 1. Mynderse Ave.
- 2. Utility Work
- 3. Temporary Runaround
- 4. Personal Property Demolition

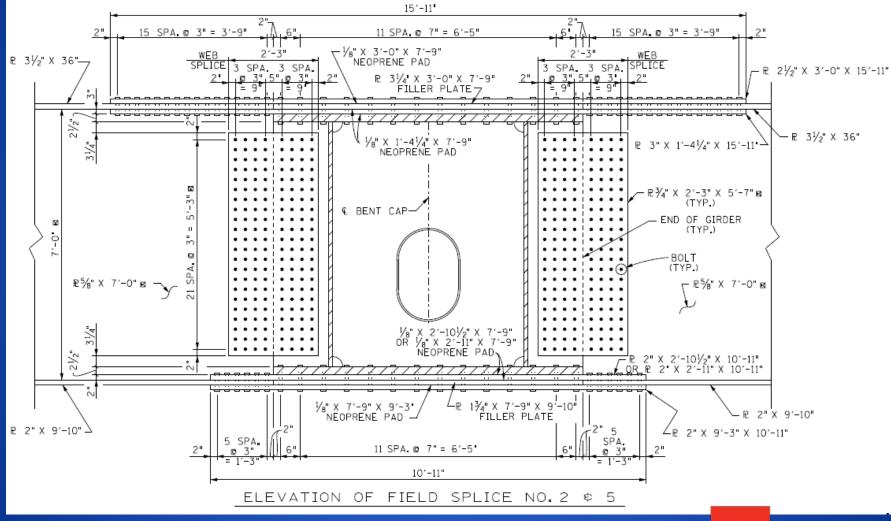


Structures



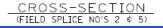
Structures

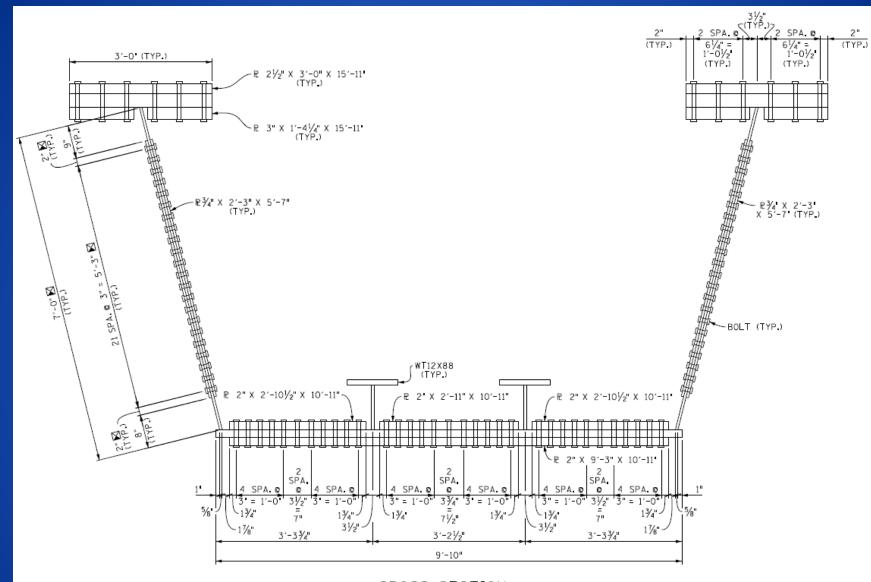


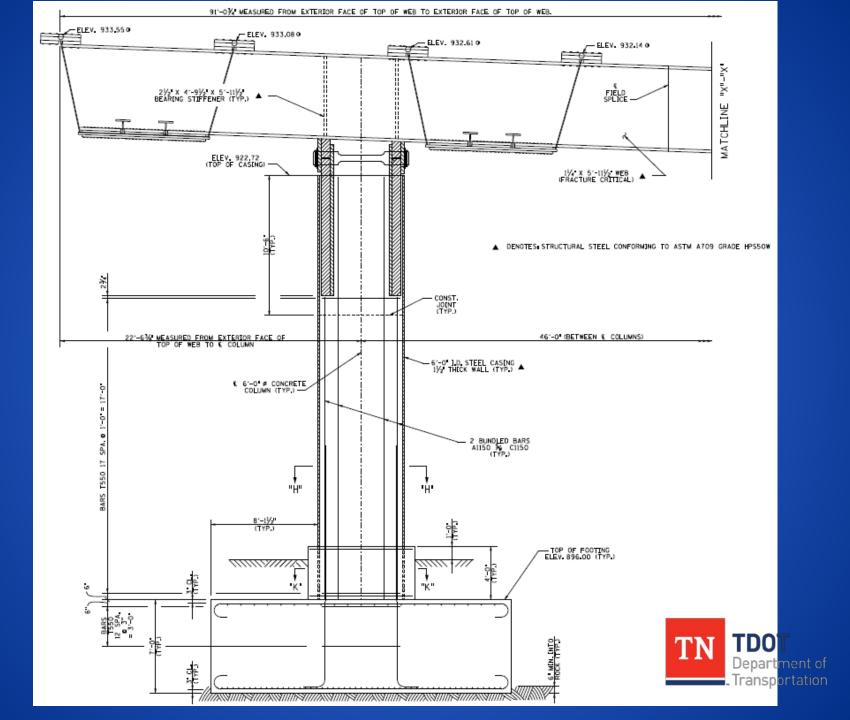


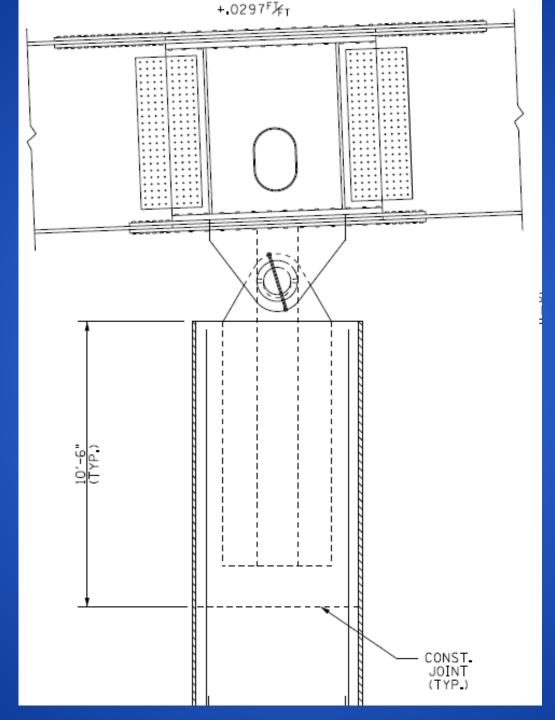
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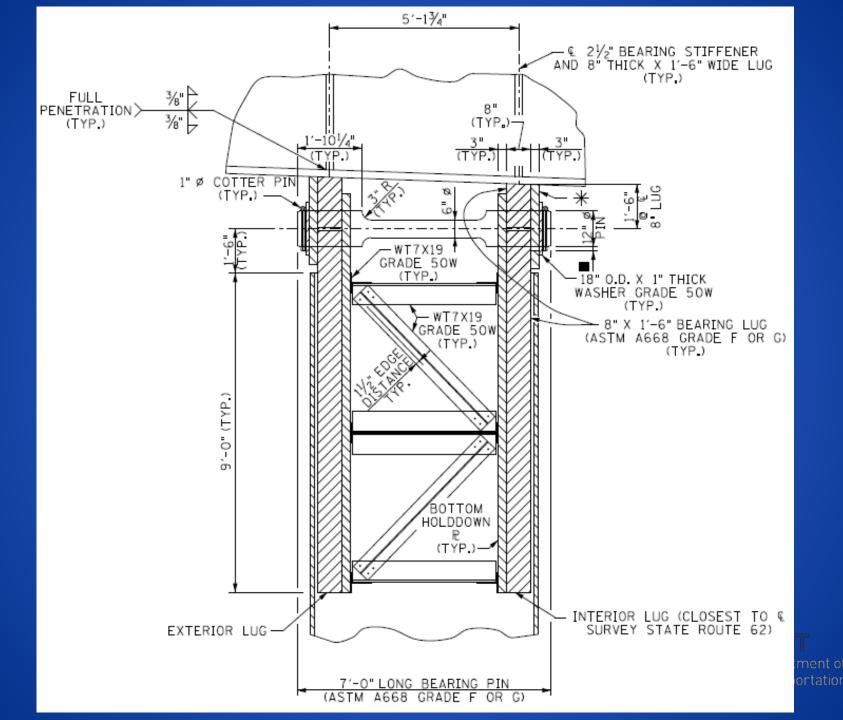


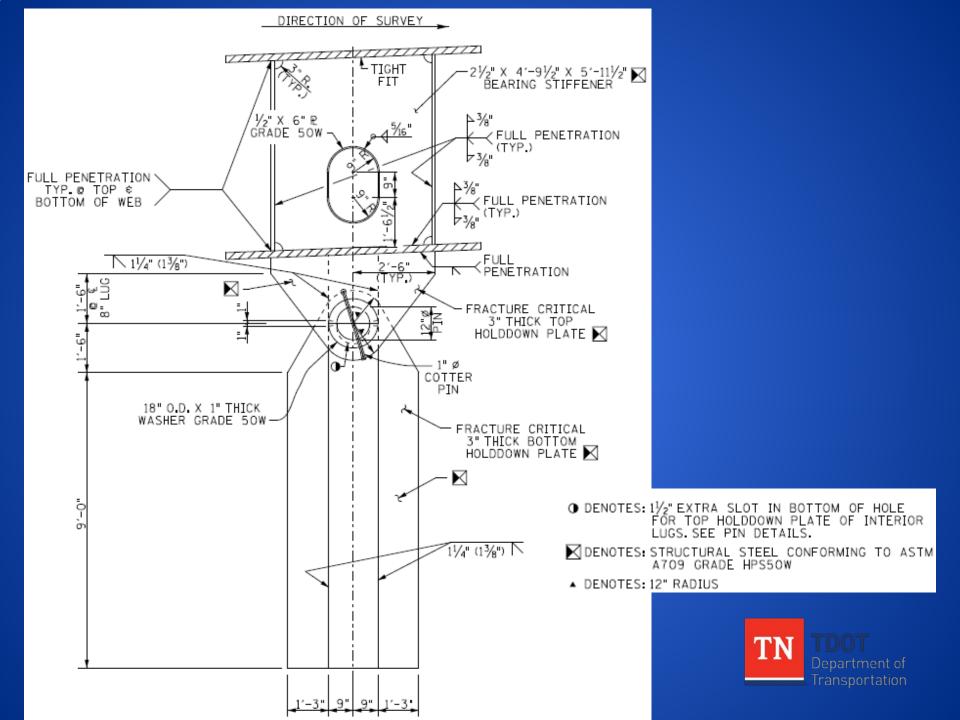


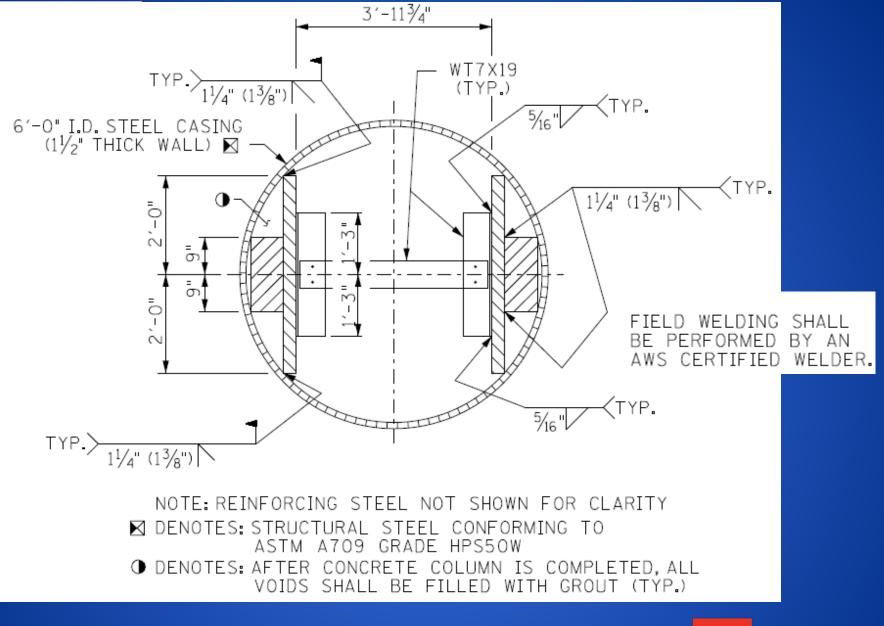














Retaining Walls



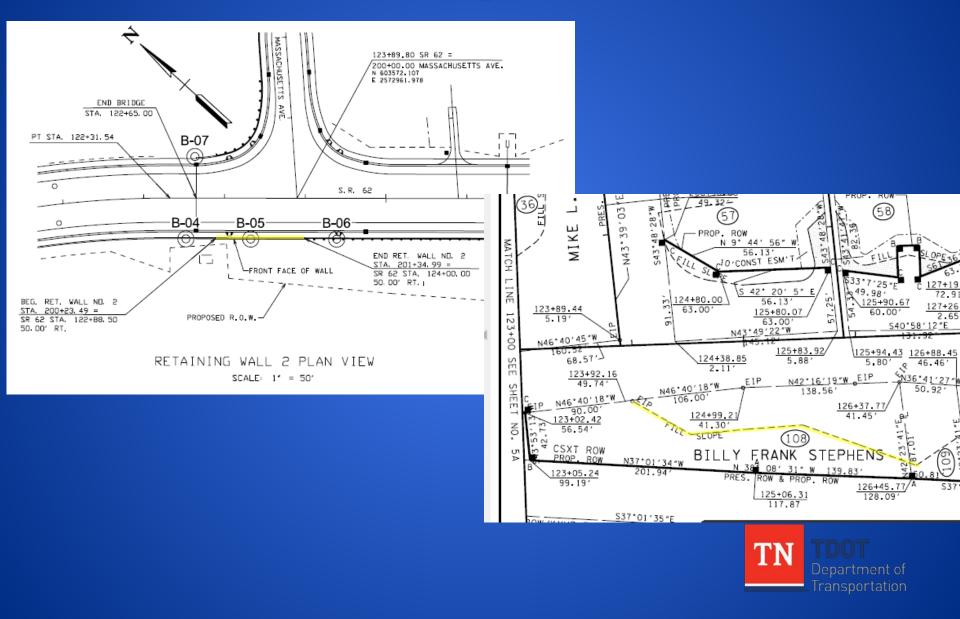
Retaining Walls

There are a total of 11 Retaining Walls.

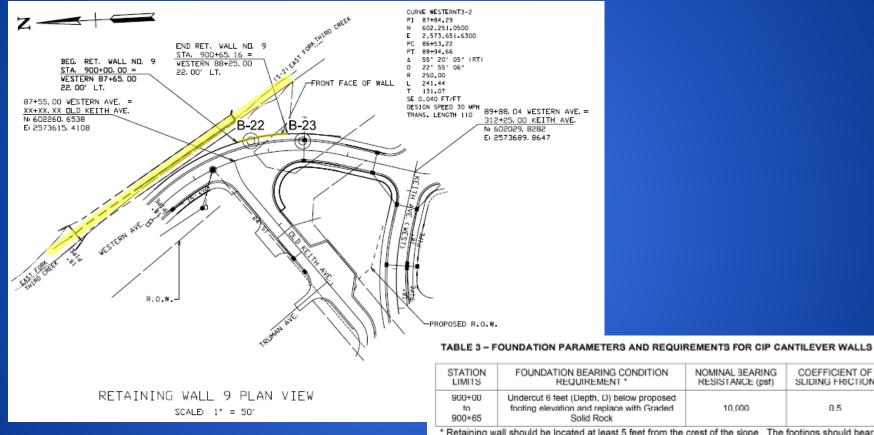
- Walls 1, 2, 8, 9 and 10 require foundation improvement.
- Walls 4, 6 and 7 there is an option for ground improvement if additional bearing capacity needed.



Retaining Wall #2



Retaining Wall #9



* Retaining wall should be located at least 5 feet from the crest of the slope. The footings should bear a minimum of 4 feet below surrounding finish grade. Refer to Typical Details for additional recommendations.



COEFFICIENT OF

SLIDING FRICTION

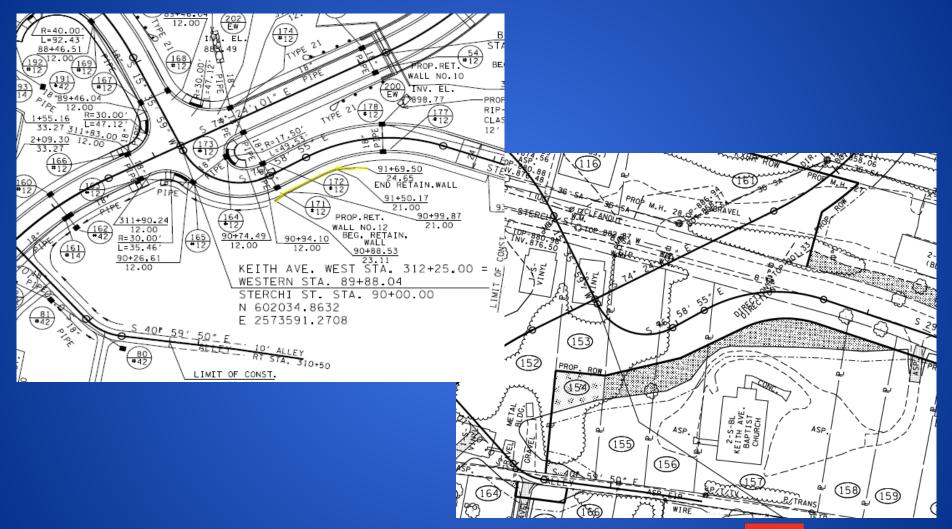
0.5

NOMINAL BEARING

RESISTANCE (pst)

10.000

Retaining Wall #12





Environmental



Water Quality Permits

Permits received to date:

- TDEC Individual ARAP/401 Water Quality Certification
- TDEC Construction NPDES
- COE Nationwide Section 404
- TVA Section 26a

Permits received for impact associated with:

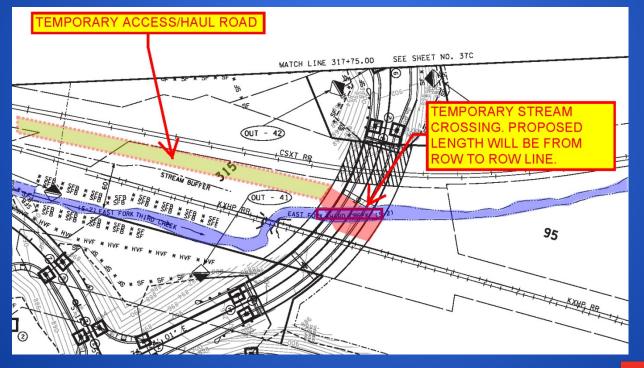
- STR-1 (Unnamed Trib. to East Fork Third Creek) Box Culvert (STA. 109+27)
- STR-2 (East Fork Third Creek) Box Culvert & Utilities (STA. 12+19.50 Mynderse Ave.)
- STR-2 Span Bridge & Utilities (STA.120+00<u>+</u>)
- STR-2 Span Bridge, Bank Stabilization & Utilities (STA. 316+00±)



Water Quality Permits

Permits modifications to be obtained prior to construction:

- STR-2 Span Bridge Temporary Stream Crossing (STA.119+50±)
- STR-2 Span Bridge Temporary Stream Crossing (STA. 316+00±)
- STR-2 (85+25±, LT Western Ave.) Outfall (rip rap apron)





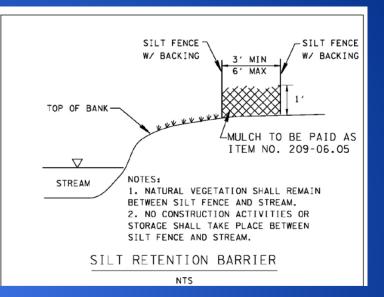
East Fork Third Creek

TDEC 303d listed for:

- Sedimentation/Siltation
- Habitat Impaired

Impaired Watershed

- Total Maximum Daily Load (TMDL) for Siltation
- Waste Load Allocation (WLA) for Sediment



TDOT Permits has obtained a TMDL consultation with TDEC for this project.

- Special notes/details in the plans regarding impacts, clearing, etc. around streams
- Additional EPSC measures required
- Protect and maintain the natural buffers

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF THIRD CREEK (STR-2)OR UNNAMED TRIBUTARY TO THIRD CREEK (STR-1) AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED EXCEPT AT THE PERMITTED LOCATIONS.

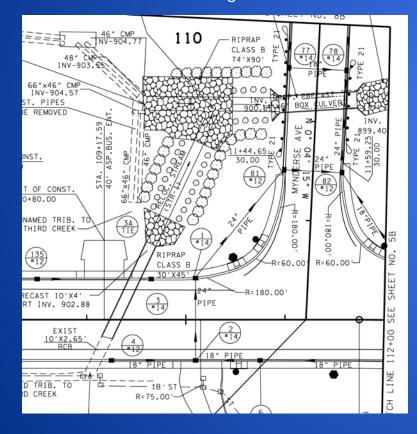


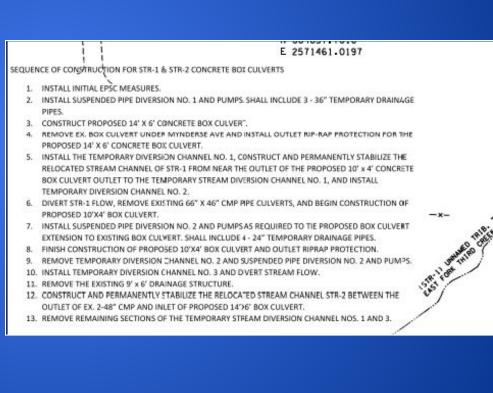
East Fork Third Creek Box Construction

Sequence of Construction for STR-1 & STR-2 Box Culvert Construction

Erosion Prevention & Sediment Control (EPSC) Plans

> Stage 2 - SHT. 37







City of Knoxville

- 1. Lane Closures on City Streets
- 2. Noise Ordinance





- No lane closures will be permitted Monday through Friday 6:00 a.m. 9:00 a.m. and 3:00 p.m. – 6:00 p.m.
- Prior to Phase 1 Traffic Control, the following shall take place:
 - Mynderse Ave. shall be open to traffic
 - The runaround at Bridge No. 1 constructed
 - Demolition of all structures
- The Contractor shall coordinate and accommodate Gerdau and KUB regarding the power swap over that will occur during the project.



Questions?

