

**PRELIMINARY DOCUMENT
NOT FOR RELEASE PURSUANT TO 23 U.S.C. SECTION 409**

OFFICE USE ONLY

MINIMUM WARNING TIME
20 seconds Minimum Time (MT)
seconds Clearance Time (CT)
seconds Minimum Warning Time (MWT)
seconds Buffer Time (BT)
seconds Equipment Response Time (ERT)
seconds Advance Traffic Signal Preemption Time (APT)
seconds TOTAL APPROACH TIME

_____ Average Daily Traffic (ADT) _____ Special Vehicle moves _____ MPH
_____ through trains at _____ mph per day _____ switch moves at _____ mph per day

Salvaged equipment: YES NO

Total estimated cubic yards of fill material:

- This project is actual cost for reimbursement of payment to the Railroad Company as agreed to by:
- This project is lump sum cost for reimbursement of payment to the Railroad Company as agreed to by:

TxDOT: _____ Railroad Company: _____

- Existing cross bucks meet TMUTCD guidelines
- Existing cross bucks do not meet TMUTCD guidelines and need to be replaced repaired. If replacement or repair is needed the railroad company or its contractor will make necessary arrangements, within 30 days of diagnostic
Notify TRF/RR when discrepancies are correct

- RxR pavement markings are to be installed, per the guidelines in the TMUTCD
- No RxR pavement markings are to be installed because
- Stop bars are to be installed, per the guidelines in the TMUTCD
- No stop bars are to be installed because

- Side lights are to be installed at this location. (Crossing is 50 feet or less from the parallel roadway)
- No side lights will be installed at this location. (Crossing is greater than 50 feet from the parallel roadway)

- AC power service is available at this location
- AC power service is not available at this location

- A signalized intersection is located _____ ft from crossing. Distance measured from the warning device to the edge of road/shoulder.
Attach copy of the preemption form
- No signalized intersection at this location

- Letter to proceed with project development was given to the Railroad Company
- No letter to proceed with project development was given to the Railroad Company because

- No yield or stop signs are to be installed by the State because
- Yield signs were recommended by the diagnostic team on an interim basis, per the guidelines in the TMUTCD. The local road authority was notified at Diagnostic. will be notified in writing. Yield signs to be installed within 30 days of diagnostic.
Notify TRF/RR when signs are installed

- Stop signs were recommended by the diagnostic team on an interim basis, per the guidelines in the TMUTCD. The local road authority was notified at Diagnostic. will be notified in writing. Stop signs to be installed within 30 days of diagnostic.
Notify TRF/RR when signs are installed

- Memo to install signs given to the district

DIAGNOSTIC TEAM

PROJECT INFORMATION

COUNTY: _____
 DOT No.: _____
 CONTROL: _____
 PROJECT: _____
 LOCATION: _____

RAILROAD: _____
 MILEPOST: _____

Date of Inspection: _____
 Date Layout Due: _____

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GENERAL NOTES

1. Signal circuits are designed to give 20 seconds Minimum Warning Time prior to the arrival of the fastest train at this crossing. Refer to signal circuit layout for total approach time.
2. **Constant warning** **Phase motion** **C Style /AC-DC** _____ circuits are to be used at this location. Upgrades required; _____ for circuit compatibility.
3. Conduit, fill dirt and crushed cover rock to be furnished in place by the Railroad Company or its Contractor at state's expense.
4. The Railroad Company or its Contractor will remove the existing **cross bucks** **mast flashers** **cantilevers** and dispose of the foundations.
5. The State or its Contractor will furnish and install or replace the appropriate pavement markings as outlined on the attached layout and standard sheet and in accordance with the guidelines in the Texas Manual on Uniform Traffic Control Devices.
6. The State or its Contractor will furnish and install or replace the following signs in accordance with the guidelines in the Texas Manual on Uniform Traffic Control Devices (TMUTCD) and the Standard Highway Sign Designs Manual for Texas(SHSD): _____ea.(W10-1), _____ea.(W10-2), _____ea.(W10-3), _____ea.(W10-4), _____ea.(R15-4). Additional signs to be added. _____
7. The **State** **County** **City** agrees to maintain the pavement markings and advance warning signs placed along the roadways under their jurisdiction in accordance with the guidelines in the Texas Manual on Uniform Traffic Control Devices and as shown on the layout and standard sheets as acknowledged on the Title Sheet.
8. The Railroad Company or its Contractor shall furnish, install and maintain sign mounting brackets for the report sign (R15-4) at the States expense.
9. The Railroad Company or its Contractor shall stencil the DOT-AAR numbers on the signal masts facing the adjacent roadway in 2" black lettering.
10. The **State** **County** **City** agrees to trim and maintain trees and vegetation for adequate visibility of the crossing signals and advance warning signs as acknowledged on the Title Sheet.
11. The Railroad Company or its Contractor will provide traffic control in accordance with the guidelines in the Texas Manual on Uniform Traffic Control Devices.
12. The **State** **Railroad Company** or its Contractor will install metal beam guard fence as shown on the layout, at the **State's** **Railroads** expense.
13. The **State** **Railroad Company** or its Contractor will install retaining wall as shown on the layout, at the **State's** **Railroads** expense.
14. The Railroad or its Contractor will furnish and install a relay to provide **simultaneous** **advance preemption** to **existing traffic signal** **proposed traffic signal** **advance flasher**. Normally a closed circuit is required between the control relay of the grade crossing warning device and the traffic signal controller or flasher as stated in the Texas Manual on Uniform Traffic Control Devices.



W10-1



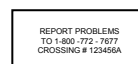
W10-2



W10-3



W10-4



R15-4



R15-2



R8-8

ADDITIONAL NOTES

DESCRIPTION OF PROJECT

_____ Complete gate assemblies with _____ gate arm
 _____ Complete cantilever assemblies with _____ foot arm
 _____ Ea. R15-2, (_____ Tracks)

12" lamp housing shall be used and equipped with LED's (light emitting diodes), operated at not less than 8.5 volts under normal operating conditions.