ARKANSAS HIGHWAY COMMISSION ARDOT-EQUIPMENT AND PROCUREMENT DIVISION BID INVITATION

Contract Number	Н-20-254Н	BID OPENING LOCATION: ARDOT Equipment and Procurement Division 11302 West Baseline Road	ArDO Procu P.O.	OT Equip rement Box 226	oment and Division 1	DELIVER TO: ARDOT Equipment and Procurement Division 11302 West Baseline Roa
	ning Date: February 25, 2020 Time: 11:00 a.m. Times of furnishing the commodities and/or services described below, subj	Little Rock, AR 72209 lect to the Conditions on page 2 of				Little Rock, AR 72209 at the above-noted mail and
delivery	locations until the above-noted bid opening date and time, and then publicents when appropriate, or bids will be rejected. Late bids and unsigned	cly opened at the above-noted bid	opening loca	tion. Bid	s must be si	ubmitted on this form, with
	iance with this Bid Invitation and subject to all the Conditions thereof, the ur each item.	ndersigned offers and agrees to furni	ish any and a	ll items up	oon which prid	ces are quoted, at the price set
Compa	ny Name:	Name (Type or Print)				
Addres	s:	Title:				
		Phone:		Fa	ax:	
City:	State: Zip:	E-mail Address:				
Federal	Tax ID or Social Security No.:	Signature:_ Signature must be legible Unsigned bids will be reje	e, original (no	t photoco	pied) and in i	nk.
Item No.	Description		Quantity	Unit	Unit Price	e Amount
	Contract for furnishing to the Arkansas Departmen	t of Transportation, Distr	ict Three	e, requi	rements of	of Guard Rail

Contract for furnishing to the Arkansas Department of Transportation, District Three, requirements of <u>Guard Rail</u> <u>Maintenance</u> at pricing set forth on the attached Bid Form and in accordance with attached Specifications. Contract shall be for a 1 year period from Date of Award thru March 31, 2020 or to a maximum amount of \$150,000.00, whichever comes first, with the option to renew upon mutual agreement by both parties.

ALL OR NONE BIDS ONLY WILL BE CONSIDERED.

All bidders should complete and return the Eligible Bidder Certification (Attachment A) and Disclosure Form (see Page 2 of Standard Bid Conditions – Item 18) and Restriction of Boycott of Israel Certification issued with this bid. A current copy of the DFA Illegal Immigrant Contractor Disclosure Certification (see Page 1 of Standard Bid Conditions – Item 17) should also be submitted with bid.

The Bid Invitation, Bid Form and Specifications are parts of the contract and by this reference are incorporated herein as fully and effectively as if set forth in detail herein.

It shall be understood that by submission of bid that bidder agrees to the conditions herein specified and, if bid is found acceptable by the Department either in whole or in part, shall consider this bid a contract agreement bound under these conditions. The parties hereto agree that this contract in all things shall be governed by the Laws of the State of Arkansas.

Bid Bond in the amount of \$500.00 required of all bidders at time of bid opening or bid will be rejected. **Personal and company checks are not acceptable as Bid Bonds.** See Condition 4 on page 1 of Bid Invitation.

Performance Bond in the amount of \$5000.00 will be required of successful bidder prior to providing goods/services. **Personal and company checks are not acceptable as Performance Bonds**. See Condition 4 on page 1 of Bid Invitation.

TWO SIGNED COPIES OF BID INVITATION AND BID FORM MUST BE SUBMITTED.

Bids and Specifications are available on-line by going to the ARDOT Web Site —<u>www.ardot.gov</u> and clicking on "Commodities and Services Bids/Contracts Information". Tabulations will also be available at this site after award of bid/contract. If you have any questions, call this office at 501-569-2667.

ARDOT - STANDARD BID CONDITIONS

- 1. **GENERAL:** Any special terms and conditions included in the invitation for bid override these standard terms and conditions. The standard terms and conditions and any special terms and conditions become part of any contract entered into if any or all parts of the bid are accepted by the Arkansas Department of Transportation (ARDOT).
- ACCEPTANCE AND REJECTION: ARDOT reserves the right to reject any or all bids, to accept bids in whole or in part (unless
 otherwise indicated by bidder), to waive any informalities in bids received, to accept bids on materials or equipment with
 variations from specifications where efficiency of operation will not be impaired, and to award bids to best serve the interest of the
 State.
- 3. **PRICES:** Unless otherwise stated in the Bid Invitation, the following will apply: (1) unit prices shall be bid, (2) prices should be stated in units of quantity specified (feet, each, lbs., etc.), (3) prices must be F.O.B. destination specified in bid, (4) prices must be firm and not subject to escalation, (5) bid must be firm for acceptance for 30 days from bid opening date. In case of errors in extension, unit prices shall govern. Discounts from bid price will not be considered in making awards.
- BID BONDS AND PERFORMANCE BONDS: If required, a Bid Bond in the form of a cashier's check, certified check, or surety bond issued by a surety company, in an amount stated in the Bid Invitation, must accompany bid. Personal and company checks are not acceptable as Bid Bonds. Failure to submit a Bid Bond as required will cause a bid to be rejected. The Bid Bond will be forfeited as liquidated damages if the successful bidder fails to provide a required Performance Bond within the period stipulated by ARDOT or fails to honor their bid. When a bidder claims and can show clear and convincing evidence that a material mistake was made in the bid and was not the bid intended, the bidder may be permitted to withdraw their bid prior to award without forfeiture of bid bond. Cashier's checks and certified checks submitted as Bid Bonds will be returned to unsuccessful bidders; surety bonds will be retained. The successful bidder will be required to furnish a Performance Bond in an amount stated in the Bid Invitation and in the form of a cashier's check, certified check, or surety bond issued by a surety company, unless otherwise stated in the Bid Invitation, as a guarantee of delivery of goods/services in accordance with the specifications and within the time established in the bid. Personal and company checks are not acceptable as Performance Bonds. In some cases, a cashier's check or certified check submitted as a Bid Bond will be held as the Performance Bond of the successful bidder. Cashier's checks or certified checks submitted as Performance Bonds will be refunded shortly after payment has been made to the successful bidder for completion of all terms of the bid; surety bonds will be retained. Surety bonds must be issued by a surety company that is authorized to do business in the State of Arkansas and that is listed on the current United States Department of the Treasury Listing of Approved Sureties. Surety bonds must be executed by a resident or non-resident agent who is licensed by the Arkansas State Insurance Commissioner to represent the surety company executing the bond, and the resident or non-resident agent shall file with the bond the power of attorney of the agent to act on behalf of the bonding company. Certain bids involving labor will require Performance Bonds in the form of surety bonds only (no checks of any kind allowed). These bonds shall not only serve to quarantee the completion of the work, but also to guarantee the excellence of both workmanship and material until the work is finally accepted and the provisions of the Plans, Specifications, and Special Provisions fulfilled. In such cases, the company issuing the surety bond must comply with all stipulations herein and must be named in the U. S. Treasury listing of companies holding Certificates of Authority as acceptable sureties on Federal Bonds and as acceptable reinsuring companies. Any excess between the face amount of the bond and the underwriting limitation of the bonding company shall be protected by reinsurance provided by an acceptable reinsuring company. Annual Bid and Performance Bonds on file with E & P Division must have sufficient unencumbered funds to meet current bonding requirements, or the bid will be rejected, unless the balance is submitted as set forth above, prior to bid opening.
- 5. TAXES: The ARDOT is not exempt from Arkansas State Sales and Use Taxes, or local option city/county sales taxes, when applicable, and bidders are responsible to the State Revenue Department for such taxes. These taxes should not be included in bid prices, but where required by law, will be paid by the ARDOT as an addition thereto, and should be added to the billing to the ARDOT. The ARDOT is exempt from Federal Excise Taxes on all commodities except motor fuels; and excise taxes should not be included in bid prices except for motor fuels. Where applicable, tax exemption certificates will be furnished by the ARDOT.
- 6. "ALL OR NONE" BIDS: Bidders who wish to bid "All or None" on two or more items shall so stipulate on the face of bid sheet; otherwise, bid may be awarded on an individual item basis.
- 7. **SPECIFICATIONS:** Complete specifications should be attached for any substitution or alternate offered, or where amplification is necessary. Bidder's name must be placed on all attachments to the bid.
- 8. **EXCEPTIONS TO SPECIFICATIONS:** Any exceptions to the bid specifications must be stated in the bid. Any exceptions to manufacturer's published literature must be stated in the bid, or it will be assumed that bidder is bidding exactly as stated in the literature.
- 9. **BRAND NAME REFERENCES:** All brand name references in bid specifications refer to that commodity or its equivalent, unless otherwise stated in Bid Invitation. Bidder should state brand or trade name of item being bid, if such name exists.
- 10. **FREIGHT:** All freight charges should be included in bid price. Any change in common carrier rates authorized by the Interstate Commerce Commission will be adjusted if such change occurs after the bid opening date. Receipted common carrier bills that reflect ICC authorized rate changes must be furnished.

- 11. **SAMPLES**, **LITERATURE**, **DEMONSTRATIONS**: Samples and technical literature must be provided free of any charge within 14 days of ARDOT request, and free demonstrations within 30 days, unless ARDOT extends time. Failure to provide as requested within this period may cause bid to be rejected. Samples, literature and demonstrations must be substantially the same as the item(s) being bid, unless otherwise agreed to by ARDOT. Samples that are not destroyed will be returned upon request at bidders expense. Samples from successful bidders may be retained for comparison with items actually furnished.
- 12. **GUARANTY:** Unless otherwise indicated in Bid Invitation, it is understood and agreed that any item offered or shipped on this bid shall be newly manufactured, latest model and design, and in first class condition; and that all containers shall be new, suitable for storage or shipment and in compliance with all applicable laws relating to construction, packaging, labeling and registration.
- 13. BACKORDERS OR DELAY IN DELIVERY: Backorders or failure to deliver within the time required may constitute default. Vendor must give written notice to the ARDOT, as soon as possible, of the reason for any delay and the expected delivery date. The ARDOT has the right to extend delivery if reasons appear valid. If reason or delivery date is not acceptable, vendor is in default.
- 14. **DEFAULT:** All commodities furnished will be subject to inspection and acceptance by ARDOT after delivery. Default in promised delivery or failure to meet specifications authorizes the ARDOT to cancel award or any portion of same, to reasonably purchase commodities or services elsewhere and to charge full increase, if any, in cost and handling to defaulting vendor. Applicable bonds may be forfeited.
- 15. **ETHICS:** "It shall be a breach of ethical standards for a person to be retained, or to retain a person, to solicit or secure a State contract upon an agreement of understanding for a commission, percentage, brokerage, or contingent fee, except for retention of bona fide employees or bona fide established commercial selling agencies maintained by the contractor for the purpose of securing business." (Arkansas Code, Annotated, Section 19-11-708).
- 16. NOTICE OF NONDISCRIMINATION: The Arkansas State Highway Commission, through ARDOT, complies with all civil rights provisions of federal statutes and related authorities that prohibit discrimination in programs and activities receiving federal financial assistance. Therefore, ARDOT does not discriminate on the basis of race, sex, color, age, national origin, religion (not applicable as a protected group under the Federal Motor Carrier Safety Administration Title VI Program), disability, Limited English Proficiency (LEP), or low-income status in the admission, access to and treatment in the ARDOT's programs and activities, as well as the ARDOT's hiring or employment practices. Complaints of alleged discrimination and inquiries regarding the ARDOT's nondiscrimination policies may be directed to Joanna P. McFadden Section Head EEO/DBE (ADA/504/Title VI Coordinator), P. O. Box 2261, Little Rock, AR 72203, (501)569-2298, (Voice/TTY 711), or the following email address: joanna.mcfadden@ardot.gov. Free language assistance for Limited English Proficient individuals is available upon request. This notice is available from the ADA/504/Title VI Coordinator in large print, on audiotape and in Braille.
- 17. PROHIBITION OF EMPLOYMENT OF ILLEGAL IMMIGRANTS: Pursuant to Arkansas Code Annotated 19-11-105, all bidders must certify prior to award of a contract that they <u>do not</u> employ or contract with any illegal immigrant(s) in its contract with the state. Bidders shall certify online at https://www.ark.org/dfa/immigrant/index.php.
- 18. **DISCLOSURE**: Failure to make any disclosure required by Governor's Executive Order 98-04, or any violation of any rule, regulation, or policy adopted pursuant to that order, **shall** be a material breach of the terms of this contract. Any contractor, whether an individual or entity, who fails to make the required disclosure or who violates any rule, regulation, or policy **shall** be subject to all legal remedies available to the agency.

ATTACHMENT A

ELIGIBLE BIDDER CERTIFICATION

The Bidder represents and warrants for itself, its employees and its subcontractors and certifies they:

- 1. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- 2. Have not within a three-year period preceding thus Bid been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- 3. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph two (2) of this Certification;
- 4. Have not within a one-year period preceding this application/Bid had one or more public transactions (Federal, State, or local) terminated for cause or default; and

The Bidder represents, warrants and acknowledges the understanding that restrictions placed on the employment of labor or on the scale of pay for the work on a contract will be the requirements of the Fair Labor Standards Act (Federal Wage-Hour Law) of 1938, 28 USC §201 et seq., and other applicable labor laws.

The person executing this Certification further represents, warrants and affirms the truthfulness and accuracy of the contents of the statements submitted on or with this Certification and understands that the provisions of 31 USC §3801 et seq. are applicable thereto.

BIDDER NAME	
BY:Signature	
TITLE:	

CONTRACT AND GRANT DISCLOSURE AND CERTIFICATION FORM

Constitutional Officer, State Board or Commission Member, State Employee, or the spouse, brother, sister, parent, or child of a member of the General Assembly, Constitutional Officer, State Board Position of Control AS A CONDITION OF OBTAINING, EXTENDING, AMENDING, OR RENEWING A CONTRACT, LEASE, PURCHASE AGREEMENT, OR GRANT AWARD Indicate below If any of the following persons, current or former, hold any position of control or hold any ownership interest of 10% or greater in the entity: member of the General Assembly, Indicate below if: you, your spouse or the brother, sister, parent, or child of you or your spouse is a current or former: member of the General Assembly, Constitutional Officer, State Board or Relation What is the person(s) name and what is his/her % of ownership interest and/or Ownership Interest (%) What is the person(s) name and how are they related to you? (i.e., Jane Q. Public, spouse, John Q. Public, Jr., child, etc.) what is his/her position of control? Failure to complete all of the following information may result in a delay in obtaining a contract, lease, purchase agreement, or grant award with any Arkansas State Agency. or Commission Member, or State Employee. Position of control means the power to direct the purchasing policies or influence the management of the entity. M COUNTY: Person's Name(s) Person's Name(s) WITH ANY ARKANSAS STATE AGENCY, THE FOLLOWING INFORMATION MUST BE DISCLOSED. **FOR AN ENTITY (BUSINESS)* FOR INDIVIDUALS*** □ Both? ZIP CODE: To MM/YY For How Long? To MM/YY For How Long? ☐ Services? MM/YY From From MM/YY Name of Position of Job Held (senator, representative, name of board/ commission, data entry, etc.) Name of Position of Job Held (senator, representative, name of board/ commission, data entry, etc.) ☐ Goods? IS THIS FOR: FIRST NAME: STATE: SUBCONTRACTOR NAME: Former Former Mark (🗸) Commission Member, or State Employee: Mark (1 ☐ None of the above applies □None of the above applies Current Current BIDDER INFORMATION: Constitutional Officer Commission Member Constitutional Officer Commission Member Position Held Position Held 2 General Assembly General Assembly TAXPAYER ID NAME: State Employee State Employee State Board or SUBCONTRACTOR: State Board or YOUR LAST NAME: □ Yes ADDRESS: CHY

Contract and Grant Disclosure and Certification Form

Failure to make any disclosure required by Governor's Executive Order 98-04, or any violation of any rule, regulation, or policy adopted pursuant to that Order, shall be a material breach of the terms of this contract. Any contractor, whether an individual or entity, who fails to make the required disclosure or who violates any rule, regulation, or policy shall be subject to all legal remedies available to the agency.

As an additional condition of obtaining, extending, amending, or renewing a contract with a state agency I agree as follows:

- whereby I assign or otherwise delegate to the person or entity, for consideration, all, or any part, of the performance required of me under the terms of Prior to entering into any agreement with any subcontractor, prior or subsequent to the contract date, I will require the subcontractor to complete a CONTRACT AND GRANT DISCLOSURE AND CERTIFICATION FORM. Subcontractor shall mean any person or entity with whom I enter an agreement my contract with the state agency. ←i
- 2. I will include the following language as a part of any agreement with a subcontractor:

Failure to make any disclosure required by Governor's Executive Order 98-04, or any violation of any rule, regulation, or policy adopted pursuant to that Order, shall be a material breach of the terms of this subcontract. The party who fails to make the required disclosure or who violates any rule, regulation, or policy shall be subject to all legal remedies available to the contractor.

of the CONTRACT AND GRANT DISCLOSURE AND CERTIFICATION FORM completed by the subcontractor and a statement containing the dollar amount of No later than ten (10) days after entering into any agreement with a subcontractor, whether prior or subsequent to the contract date, I will mail a copy the subcontract to the state agency. æ,

Date	Phone No.
Title	Title
Signature	Vendor Contact Person

Agency Use Only				
Agency Number	Agency Name	Agency Contact Person	Contact Phone No.	Contract or Grant No.

RESTRICTION OF BOYCOTT OF ISRAEL CERTIFICATION

Pursuant to Arkansas Code Annotated § 25-1-503, a public entity **shall not** enter into a contract valued at \$1,000 or greater with a company unless the contract includes a written certification that the person or company is not currently engaged in, and agrees for the duration of the contract not to engage in, a boycott of Israel.

By signing below, the Contractor agrees and certifies that they do not currently boycott Israel and will not boycott Israel during any time in which they are entering into, or while in contract, with any public entity as defined in § 25-1-503* If at any time after signing this certification the contractor decides to engage in a boycott of Israel, the contractor must notify the contracting public entity in writing.

If a company does boycott Israel, see Arkansas Code Annotated § 25-1-503.

Name of public entity Description of product or	Arkansas Department of Transportation
service	H-20-254H/Guard Rail Maintenance D3
Contractor name	

Contractor Signature:	Date:
Signature must be hand written, in ink	

"Public Entity" means the State of Arkansas, or a political subdivision of the state, including all boards, commissions, agencies, institutions, authorities, and bodies politic and corporate of the state, created by or in accordance with state law or regulations, and does include colleges, universities, a statewide public employee retirement system, and institutions in Arkansas as well as units of local and municipal government.

ILLEGAL IMMIGRANT CERTIFICATION

Pursuant to Arkansas Code Annotated § 19-11-105, Contractor(s) **shall** certify with OSP that they do not employ or contract with illegal immigrants.

By signing below, the Contractor agrees and certifies that they do not employ illegal immigrants and will not employ illegal immigrants during the remaining aggregate term of the contract.

Bid Number/Contract Number	H-20-254H
AASIS Number	N/A
Description	Guard Rail Maintenance District 3
Contractor name	
Contractor Signature:	Date:
Signature must be hand written, in ink	

ARKANSAS DEPARTMENT OF TRANSPORTATION CONTRACT FOR GUARD RAIL MAINTENANCE **BID FORM**

CONTRACT NO.	H-20-254H
CONTRACT NO.	11-40-43711

CONTRACT NO. H-20-254H	BIDDER	
Prices bid herein are subject to discount of _	% for payment of invoices within	days.

Item	Description	Approx.	Unit	Unit Price	Extended Amount
No. 1.	Description Guardrail (Section 1)	Useage 350	L.F.	Tice	Amount
2.	Guardrail (Section 2)	3000	L.F.		
3.	Guardrail (Section 3)	200	L.F.		
4.	Guardrail (Section 4)	200	L.F.		
5.	Guardrail Spacer Blocks (Plastic)	200	EA.		
6.	Guardrail Line Posts (Steel)	200	EA.		
*7.	Install Furnished Guardrail Line Posts (Steel)	10	EA.		
*8.	Install Furnished Guardrail Line Posts (Concrete)	10	EA.		
9.	Guardrail Line Posts (Wood)	3	EA.		
10.	Guardrail Spacer Blocks (Steel I-Beam)	200	EA.		
*11.	Install Furnished Guardrail Spacer Blocks (Concrete)	10	EA.		
12.	Guardrail Spacer Blocks (Wood)	10	EA.		
13.	Terminal Anchor Posts (Type A)	1	EA.		
14.	Terminal Anchor Posts (Type B)	1	EA.		
15.	Special End Shoe	3	EA.		
16.	Removal & Disposal of Guardrail (Type A)	4000	L.F.		

^{*}To be furnished by Arkansas Department of Transportation.

CONTRACT NO. H-20-254H

BIDDER

Item		Approx.	I Imit	Unit	Extended Amount
No. 17.	Description Removal & Disposal of Guardrail (Type B)	Useage 1	Unit L.F.	Price	Amount
18.	Furnish and Install Guardrail System (Type A)	100	L.F.		
19.	Furnish and Install Guardrail System (Type B)	1	L.F.		
20.	Guardrail Terminal Section	10	EA.		
21.	Straighten and Align existing Guardrail Posts	100	EA.		
22.	Guardrail Terminal (Type 2) Guardrail (12 GA.)	15	EA.		
23.	Steel Tube (6"x8"x54"x3/16")	20	EA.		
24.	Soil Plate (18"x24"x1/4")	1	EA.		
25.	Guard Rail Terminal (Type 2), Wood Posts (5-1/2"x7-1/2"x45")	30	EA.		
26.	Guard Rail Terminal (Type 2), Wood Posts (6"x8"x6'0")	40	EA.		
27.	Guard Rail Terminal (Type 2), Wood Posts (5-1/2"x7-1/2"x14")	40	EA.		
28.	Pipe Sleeve (2" Std. Pipe x 5-1/2")	7	EA.		
29.	Bearing Plate (8"x8"x5/8")	8	EA.		
30.	Cable Anchor Bracket	8	EA.		

CONTRACT NO.	H-20-25	4H
CONTINACTION.	. 11-20-23	T1.

BIDDER

Item No.	Description	Approx. Useage	Unit	Unit Price	Extended Amount
31.	Cable Assembly	8	EA.		· · · · · · · · · · · · · · · · · · ·
32.	Offset Strut	1	EA.		
33.	Guard Rail Extruder	8	EA.		
34.	Furnish and Install Terminal System (Type 2)	5	EA.		
35.	Guard Rail (Thrie Section)	2	EA.		
36.	Guard Rail(Thrie Transition Section)	2	EA.		
37.	Guard Rail Connector Plate (Thrie Beam)	1	EA.		
38.	Special End Shoe (Thrie Beam)	1	EA.		
39.	Guard Rail Spacer Blocks (Plastic- Thrie)	3	EA.		
40.	Guard Rail Spacer Blocks (Steel Tube- Thrie)	3	EA.		
41.	Guard Rail Spacer Blocks (Wood-Thrie)	3	EA.		
42.	Furnish & Install Thrie Beam Guard Rail Terminal	1	EA.		
43.	ET2000 HBA Post #1 Top	2	EA.		
44.	ET2000 HBA Post #2 thru #8 Top	14	EA.		
45.	ET2000 HBA Post #1 & #2 Bottom	4	EA.		
46.	ET2000 HBA Post #3 thru #8 Bottom	12	EA.		
47.	ET2000 HBA Angle Strut	1	EA.		
48.	Furnish & Install ET2000 Plus (HBA Post)	1	EA.		

CONTRACT NO. H-20-254H

Item No.	Description	Approx. Useage	Unit	Unit Price	Extended Amount
49.	Steel Yielding Terminal Post	7	EA.	THEE	Amount
50.	Furnish & Install ET-Plus with SYTP	1	EA.		
51.	Metal Hinged Breakaway Post	1	EA.		
52,	Thrie Beam Guardrail Wood Post (6" x 8" x 84")	24	EA.		
53.	Thrie Beam Guardrail Steel Post (78")	24	EA.		
**54.	Furnish & Install Bridge End Terminal (excluding concrete pad)	1	EA.		
**55.	Nose Assy. QT-350, G or Y	1	EA.		
**56.	Panel, Fender, QG, G	6	EA.		
**57.	Post #1, G	1	EA.		
**58.	Post #2, G	5	EA.		
**59.	Base, Slip	6	EA.		
**60.	Blockout, G	6	EA.		
**61.	Washer, Mushroom, Forged, QG, G	6	EA.		
**62.	Container, Sand, 150LB.	2	EA.		
**63.	Container, Sand, 100LB	4	EA.		
**64.	Strap, Back, 78 -1/8	2	EA.		
**65.	Strap, Back, System to Barrier, 88, QT-350	1	EA.		
**66.	Plate, Bolt Keeper	6	EA.		
**67.	End Shoe, QG, G	1	EA.		

^{**}Items 54 thru 67 must be for Quad Trend-350 System with End Shoe or Equivalent. Removal and disposal will be paid under item 16. Furnishing and placing anchor bolts, splicing hardware, assembly hardware, and/or attachment hardware will not be measured and paid for directly but will be considered included in the prices bid for the various items of the Contract.

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BIDDER

Item No.	Description	Approx. Useage	Unit	Unit Price	Extended Amount
***68.	Furnish & Install SoftStop System End Terminal	5	EA.	Trice	Amount
***69.	SoftStop Impact Head (15208)	4	EA.		
***70.	SoftStop Anchor Rail 12'-06" (15200)	5	EA.		
***71.	System Rail 12'-06" (00011)	5	EA.		
***72.	SoftStop Anchor Rail 25'-00" (15215)	5	EA.		
***73.	System Rail 25'-00" (00061)	5	EA.		
***74.	SoftStop Anchor Post (Post 0) (15205)	3	EA.		
***75.	SoftStop SYTP (Post 1) (15203)	5	EA.		
***76.	SYTP Post 6'-00" (Post 2) (15000)	5	EA.		
***77.	System Line Post 6'00" (Post 3,4,5,6,7&8) (00533)	5	EA.		
***78.	Offset Block (King Block) (06777)	10	EA.		,
***79.	SoftStop Anchor Paddle (15204)	5	EA.		
***80.	SoftStop Keeper Plate (15207)	5	EA.		
***81.	SoftStop Plate Washer (15206)	4	EA.		
***82.	SoftStop Anchor Angle (15201)	4	EA.		
***83.	SoftStop Angle Strut (15202)	5	EA.		
			BII	D TOTAL:	

^{***}Items 68 thru 83 must be for the SoftStop System (8 Blocks) Mash Test Level 3. Removal and disposal will be paid under item 16. Furnishing and placing anchor bolts, splicing hardware, assembly hardware, and/or attachment hardware will not be measured and paid for directly but will be considered included in the prices bid for the various items of the Contract.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

GUARD RAIL MAINTENANCE

DESCRIPTION:

This work shall consist of:

- 1. Removing and disposing of existing sub-standard installations or those installations which have been damaged beyond repair.
- 2. Installation of new guard rail systems with materials furnished by the Contractor or the Department as appropriate and constructed to current standards.

This work shall be limited to District Three (Hempstead, Howard, Lafayette, Little River, Miller, Nevada, Pike, & Sevier Counties). Locations within the District shall be selected by the District Engineer.

The Contract shall be limited to a one year period following the award of the Contract.

The Department reserves the right to cancel the Contract before the one year time limit.

The Department reserves the right to also perform guard rail repair as necessary within the areas covered by this Contract.

The Contractor shall assume full liability for traffic hazards that might be created by his operation and save harmless the Arkansas State Highway Commission in all respects.

MATERIALS:

All materials furnished by the Contractor shall meet the requirements of the Arkansas Department of Transportation Standard Specifications for Highway Construction, Edition of 2014, all applicable Special Provisions and Supplemental Specifications and Current Standard Drawings GR-7, GR-8, GR-8A, GR-9, GR-10, GR-10A, GR-11, GRT-1 and MNTNC-1.

Department furnished materials will be available at the District Three Headquarters at Hope during normal working hours. Miscellaneous hardware items such as nuts, bolts, washers, etc. necessary to reset Department furnished items shall be supplied by the Contractor and shall comply with all applicable specification requirements and be approved by Materials Division. Only the exact amount of materials necessary for the installation will be furnished. Any material damaged by the Contractor will be replaced at no cost to the State.

Any guard rail elements removed from an installation which the District Engineer determines to be salvageable shall become the property of the Department and shall be delivered to the District Three Headquarters during normal working hours. Non-Salvageable materials shall be disposed of by the Contractor.

EQUIPMENT:

All equipment necessary for the satisfactory performance of this work shall be on hand before work begins.

PROCEDURE:

The Contractor will be required to begin work within ten (10) calendar days of notification from the District Engineer that work is required and will be notified in writing each time it is necessary to perform work. A list will be enclosed with the notification which includes Department furnished materials, Contractor furnished materials, and the location and length of each installation. This list will be an estimate only and may be adjusted once work begins. The Contractor shall provide the District Maintenance Engineer with their schedule for repairs at the various locations. This notification shall include anticipated traffic control. No lane closures will be allowed in the mornings between 6 a.m. and 9 a.m. and in the afternoons between 3 p.m. and 6 p.m. without the consent of the District Engineer. When the Contractor completes all of the specified work at a location, he shall notify the District Maintenance Engineer and an inspection will be made. Upon acceptance of the work and materials by the Department, a list of completed pay items will be furnished by the Contractor and the specified work will be considered complete.

Replacement, assembly and or installation of guard rail elements shall conform to the Arkansas Department of Transportation Standard Specifications for Highway Construction, Edition of 2014, all applicable Special Provisions and Supplemental Specifications and Current Standard Drawings GR-7, GR-8, GR-8A, GR-9, GR-10, GR-10A, GR-11, GRT-1 and MNTNC-1. The alignment and location of replaced guard rail elements shall conform to and match the portion of any installation which is undamaged and is to remain in place.

When the Engineer determines that an entire guard rail installation is damaged beyond repair or needs to be upgraded to current standards, the Contractor will be instructed to remove and dispose of the installation and to construct a new installation with materials supplied by the Contractor. In such instances, all materials, work, measurement and payment will be in accordance with Arkansas Department of Transportation Standard Specifications for Highway Construction, Edition of 2014, all applicable Special Provisions and Supplemental Specifications and Current Standard Drawings numbered GR-7, GR-8, GR-8A, GR-9, GR-10, GR-10A GR-11 GRT-1 and MNTNC-1. Post holes created by the removal of concrete or wood posts shall be backfilled and thoroughly compacted using suitable material before driving the new steel posts. When possible the spacing of the steel posts shall be staggered between the vacated post holes. In such instances the backfilling may then be accomplished either before or after the steel posts are driven.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT:

Mobilization will not be measured and paid for directly but will be considered included in the prices bid for the various items of the Contract.

The cost of traffic control through the work zones will not be measured and paid for directly but will be considered included in the prices bid for the various items of the Contract.

Replaced steel guard rail sections, installed and accepted, will be measured by the linear foot, complete in place, and paid for at the Contract unit price bid. As indicated on the Standard Drawings Sections 1 and 2 are end sections and will each be considered as 25 feet in length. Intermediate Section 3 shall be measured along the roadway face from centerline of post to centerline of post. NOTE: The item, Guard Rail Section 1, as shown on Standard Drawing GR-8A, is required to be a double section. Each Section 1 of the double rail will be paid as 50 L.F. of guard rail plate. For the items, Guard Rail Sections 2, 3 and 4, each installation will be paid for as a 25 L.F. section of guard rail plate. This note applies only when individual parts or pieces of a guard rail installation are being replaced and does not apply to the items "Furnish and Install Guard Rail (Type _____).

Replaced guard rail line posts, spacer blocks, back-up plates, terminal sections and terminal anchor posts (Type A & B), installed and accepted, will be measured by the unit and paid for at the Contract unit price bid.

Furnishing and placing anchor bolts, splicing hardware, and/or attachment hardware will not be measured and paid for directly but will be considered included in the prices bid for the various items of the Contract.

No measurement and payment will be made for necessary excavation and/or backfilling performed in connection with replacing damaged elements of guard rail.

Removal and disposal of guard rail will be measured as provided in the Arkansas Department of Transportation Standard Specifications for Highway Construction, Edition of 2014, all applicable Special Provisions and Standard Drawings GR-7, GR-8, GR-8 (Special), GR-8A, GR-9, GR-10, GR-10A, GR-11, GRT-1, MNTNC-1 and paid for at the contract unit price bid. Removal and disposal of posts, spacer blocks, and miscellaneous hardware will not be measured and paid for directly but will be considered included in the price bid for the various items of the contract.

Work completed at each designated location shall be paid for upon acceptance of the work. Payment shall be based upon the list of completed pay items furnished by the Contractor to the Department and the Contract unit price for those items.

TRAFFIC CONTROL THROUGH WORK ZONE:

The Contractor shall sign and mark all work zones and lane closures in accordance with the Manual on Uniform Traffic Control Devices and Current Standard Drawings TC-1, TC-2, TC-3, TC-4 and TC-5. All signing materials shall be High Intensity. The Contractor shall conduct repair operations in such a manner that all feasible traffic lanes will be open to traffic. Lane closures may be established as needed to perform the work, except that during period of adverse weather or peak high traffic, lane closures will be permitted only if approved by the Engineer.

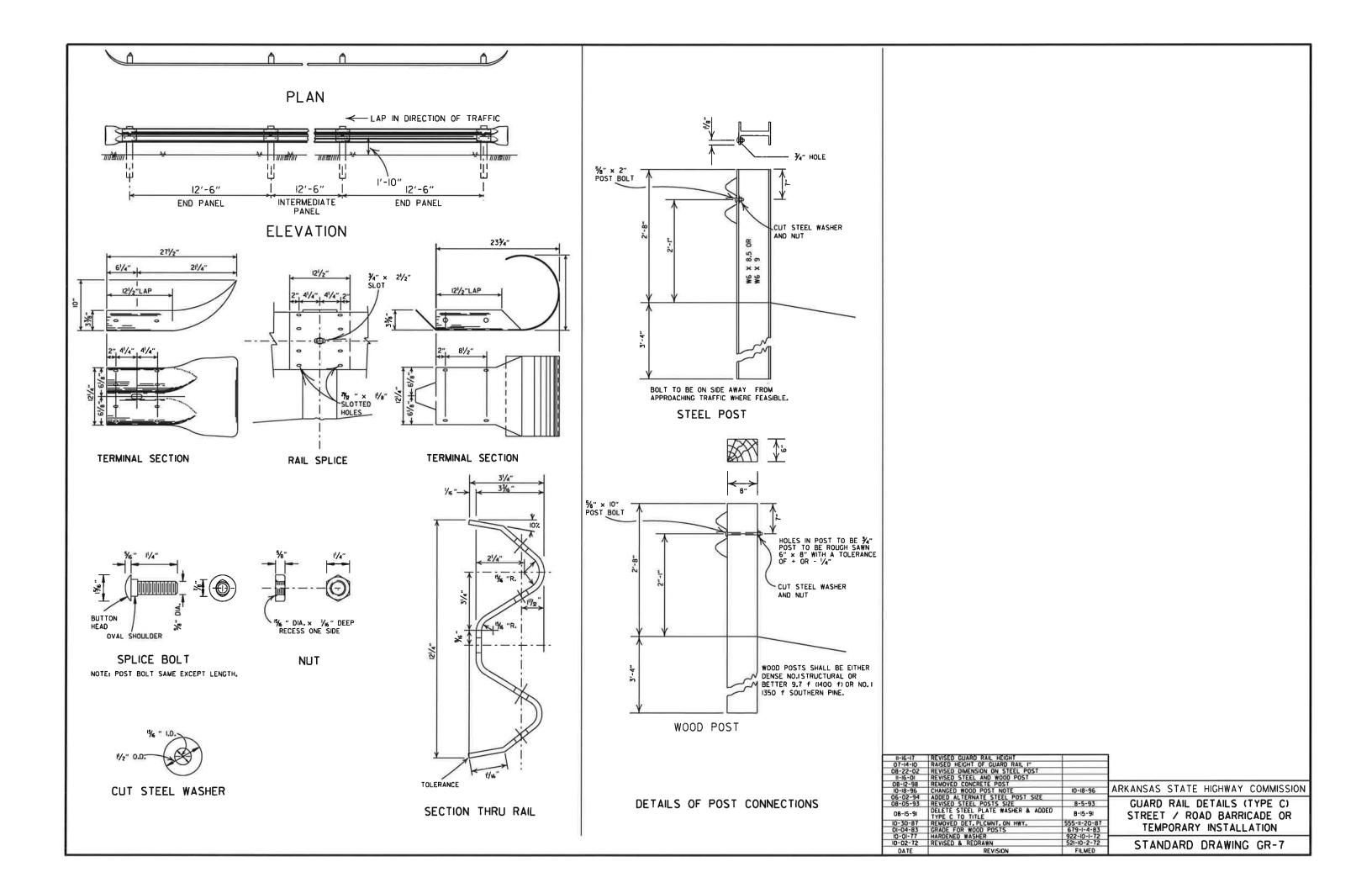
LITTLE ROCK, ARKANSAS ARDOT -EQUIPMENT & PROCUREMENT DIVISION

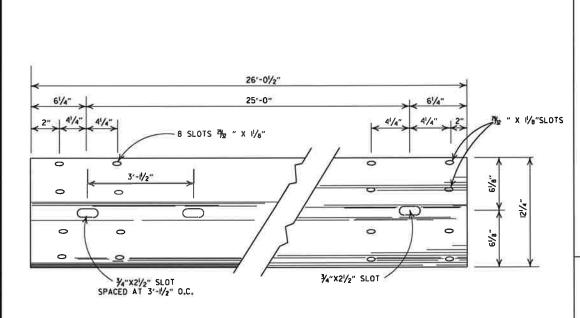
Contract No. H-20-254H

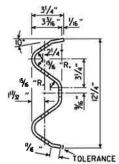
Cooperative Purchasing. Other tax-supported entities* in Arkansas (cities, counties, state agencies, school districts, etc.) may purchase commodities covered in this Contract on an individual basis under the same specifications and conditions, and at the pricing set forth by each vendor, all at the discretion of each vendor in each case. Prices could be reduced by a vendor for minor alterations in conditions (changing minimum order quantities, etc.) as agreed by both parties, but could not be raised above the contract bid price under any circumstances. Vendors would not be required to sell to any such entity under this Contract, and those entities would not be obligated to purchase from the Contract.

Each entity wishing to purchase from the Contract would make contact directly with the appropriate vendor(s). The Department of Transportation would remain "out of the loop" for such transactions: all contact, orders, invoices, payments, etc. regarding such transactions must take place exclusively between the tax-supported entity and the vendor. The Department would be held harmless of any and all liability arising from such transactions.

*Tax-supported entities are defined as those receiving more than half of total funding from appropriated tax funds.

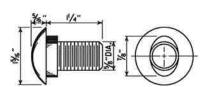




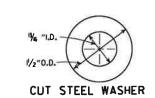


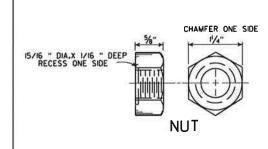
DETAILS OF W-BEAM GUARD RAIL

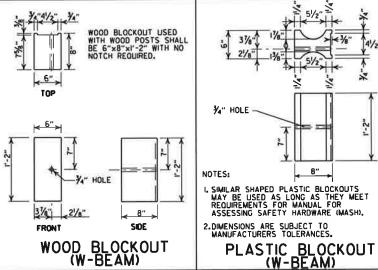
RAIL SECTION OF CLOSELY SIMILAR DIMENSIONS AND COMPARABLE STRENGTH MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.

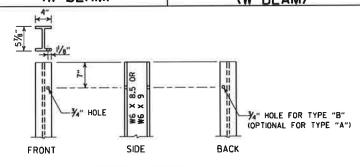


SPLICE BOLT POST BOLT - SAME EXCEPT LENGTH

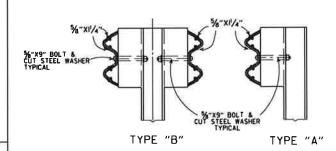








STEEL POST



DETAILS OF STEEL LINE POST CONNECTIONS (W-BEAM)

-GENERAL NOTES-

ALL BOLTS SHALL BE SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND NO MORE THAN 3/4" BEYOND IT.

SHERE W-BEAM GUARD RAIL CONTINUES, THE INTERMEDIATE SECTIONS SHALL HAVE A POST SPACING OF 6'-3" UNLESS OTHERWISE NOTED.

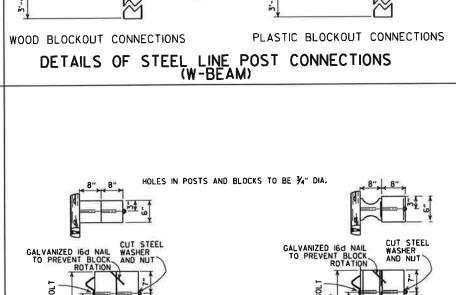
W-BEAM GUARD RAIL REPRESENTING INTERMEDIATE SECTIONS WILL BE MEASURED ALONG THE ROADWAY FACE FROM CENTERLINE OF POST TO CENTERLINE OF POST.

USE W-BEAM GUARD RAIL COMPONENTS OF SAME MATERIAL FOR ENTIRE JOB. FOR EXTENSIONS OR MODIFICATION OF EXISTING GUARD RAIL, W-BEAM GUARD RAIL COMPONENTS OF THE SAME TYPE AS THOSE EXISTING SHALL BE USED.

ANY BACKFILLING UNDER OR AROUND POST SHALL BE DAMP SAND THOROUGHLY TAMPED IN PLACE.

WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. ISTRUCTURAL OR BETTER 9.7f (1400 f) OR NO. 1 1350 f SOUTHERN PINE.

CONTRACTOR SHALL HAVE THE OPTION OF USING WOOD BLOCKOUTS FOR W-BEAM GUARD RAIL OR PLASTIC BLOCKOUTS, AS LONG AS BLOCKOUT USED MEETS REQUIREMENTS FOR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) FOR W-BEAM GUARD RAIL.



HOLES IN POSTS AND BLOCKS TO BE 34" DIA.

6"x8"x1'-2" PLASTIC BLOCK W/ 38"x41/2"x1'2" NOTCH

WOOD BLOCKOUT CONNECTIONS

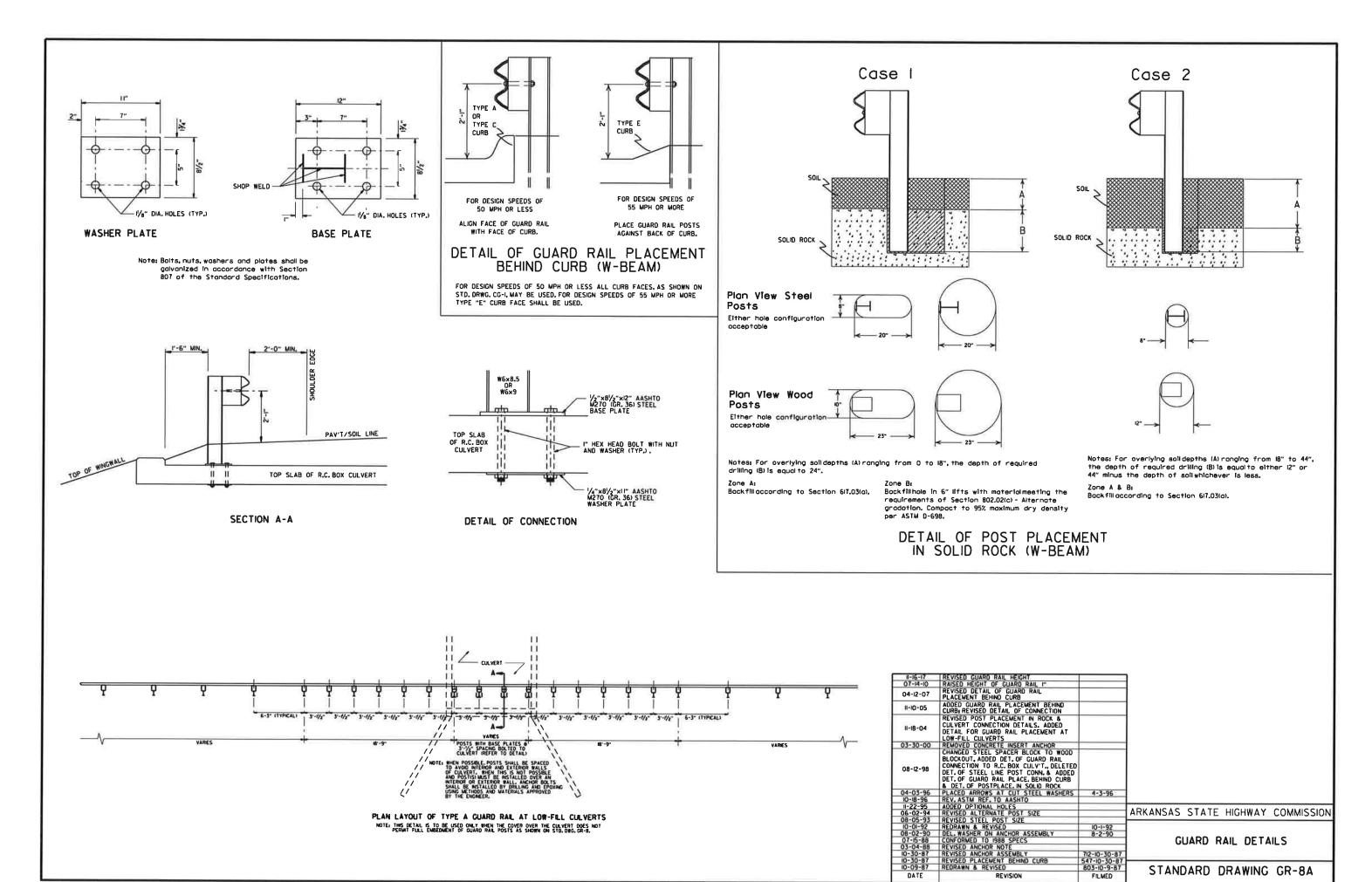
POSTS AND BLOCKS TO BE ROUGH SAWN 6"X8" WITH A TOLERANCE OF + OR - 1/4".

6"x8"x1'-2" WOOD BLOCK W/ 1/4"x41/4"x1'2"' NOTCH

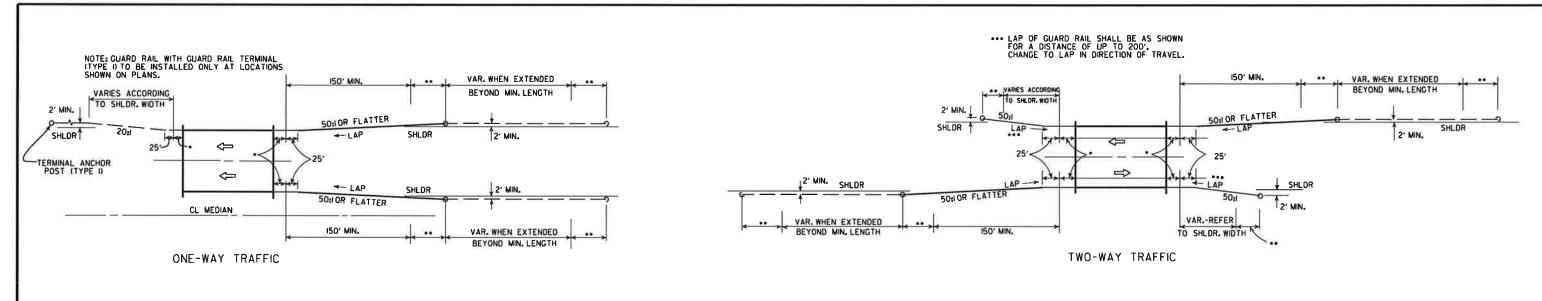
PLASTIC BLOCKOUT CONNECTIONS

DETAILS OF WOOD LINE POST CONNECTIONS (W-BEAM)

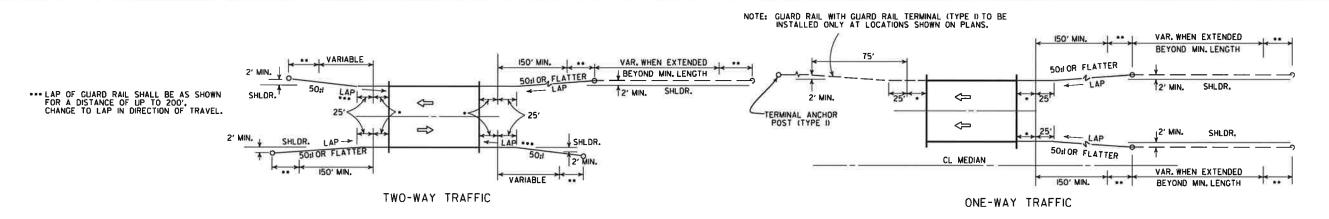
11-16-17	REVISED GENERAL NOTES AND RAISED GUARD RAIL HEIGHT 3"		
07-14-10	RAISED HEIGHT OF GUARD RAIL I"		
10-15-09	ADDED REFERENCE TO MASH		
04-10-03	REVISED GENERAL NOTES		
08-22-02	REVISED DIMENSION ON WOOD & PLASTIC BLOCKOUT CONNECTIONS & STEEL POST		
11-16-01	REVISED WOOD BLOCKOUT & DETAILS OF WOOD LINE POST CONNECTIONS		
03-30-00	REMOVED GUARD RAIL AT BRIDGE ENDS		
01-12-00	ADDED PLASTIC BLOCKOUT		
08-12-98	REV, BLOCKOUTS TO WOOD, DELETED CONC. POST & REV, CEMERAL NOTE, DELETED DET. OF GUARD RAM. REPLACE, BEHNND CURB & DET. OF POST PLACE. IN SOLID ROCK, & ADDEO DETAILS OF STEEL LINE POST CONN. REMOVED BACK-UP PLATE, REVISED HOLES IN STEEL POLES		
04-03-97	REMOVED "LAP IN DIRECTION OF TRAFFIC" NOTE & PLACED ARROWS ON WASHERS		
10-18-96	REVISED WOOD POST NOTE		
06-02-94	ADDED ALT. STEEL POST SIZE		
08-05-93	REVISED STEEL POST SIZE	8-5-93	ARKANSAS STATE HIGHWAY COMMISSION
10-01-92	REDRAWN & REVISED	10-1-92	ARRANSAS STATE HIGHWAT COMMISSION
08-15-91	REVISED WASHER NOTE	8-15-91	
08-02-90	REV. GEN. NOTE & DEPTH OF ANC. POST IN ROCK	8-2-90	CHARD DAN DETAILS
07-15-88	REVISED SECTION 3 & GENERAL NOTES		GUARD RAIL DETAILS
03-04-88	REV. ANCHOR POST ,ELEV. NOTES & POST	780-3-4-88	
10-30-87	REVISED WOOD LINE POST DETAIL	546-10-30-87	
10-09-87	REDRAWN & REVISED	802-10-9-87	STANDARD DRAWING GR-8
DATE	REVISION	FILMED	STANDAND BRAWING ON G



STANDARD DRAWING GR-8A

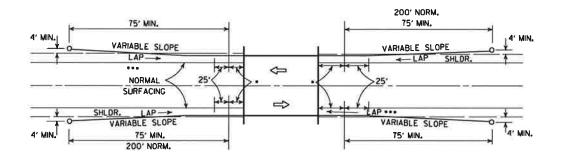


METHODS OF INSTALLATION OF GUARD RAIL AT LESS THAN FULL SHOULDER WIDTH BRIDGES USING GUARD RAIL TERMINAL (TYPE 2)



METHOD OF INSTALLATION OF GUARD RAIL AT FULL SHOULDER WIDTH BRIDGES USING GUARD RAIL TERMINAL (TYPE 2)

••• LAP OF GUARD RAIL SHALL BE AS SHOWN FOR A DISTANCE OF UP TO 200', CHANGE TO LAP IN DIRECTION OF TRAVEL.



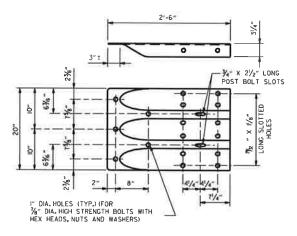
METHOD OF INSTALLATION OF GUARD RAIL USING GUARD RAIL TERMINAL (TYPE I) (FULL SHOULDER WIDTH OR LESS BRIDGES)

	·					
			ARKANSAS STATE HIGHWAY COMMISSION			
4-17-08	REVISED LAYOUTS					
11-10-05	REMOVED GUARD RAIL NOTES AND DETAILS					
11-16-01	DELETED NOTE-METHOD OF INSTALLATION OF GUARD RAIL USING GUARD RAIL TERM. (TY. I)		GUARD RAIL DETAILS			
1-12-00	ADDED CONSTRUCTION NOTE	1-12-00				
6-26-97	REVISED LAYOUT					
10-1-92	REDRAWN & REVISED	10-1-92				
	ADDED NOTE					
10-9-87	REDRAWN & REVISED		STANDARD DRAWING GR-9			
DATE	REVISION	DATE FILM				

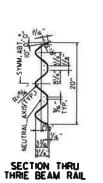
LEGEND

. THRIE BEAM GUARD RAIL TERMINAL

.. GUARD RAIL TERMINAL (TYPE 2)



SPECIAL END SHOE



13'-6'/2"

13'-6'/2"

2"-4'/4"-4'/4"

1-6-1/4"

1-6-1/4"

1-6-1/4"

1-6-1/4"

1-6-1/4"

1-6-1/4"

1-6-1/4"

1-6-1/4"

SLOTS

3-6-1/4"-4/4"-2"

SLOTS

3-6-1/4"-4/4"-2"

SLOTS

3-6-1/4"-4/4"-2"

SLOTS

3-6-1/4"-4/4"-2"

SLOTS

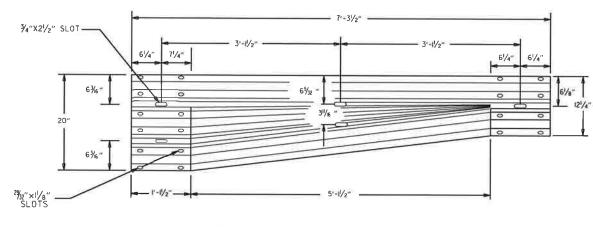
3-6-1/4"-4/4"-2"

SLOTS

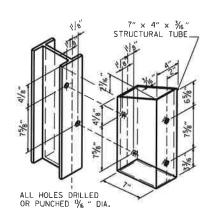
3-6-1/4"-4/4"-2"

SLOTS

THRIE BEAM RAIL



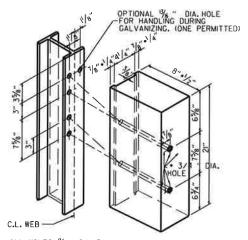
TRANSITION SECTION



STRUCTURAL STEEL TUBING

BLOCKOUT DETAIL

ATTACH BLOCKOUT TO POST USING %" DIA. HEX HEAD BOLTS WITH 11/2" O.D. CUT STEEL WASHERS AND NUT.



ALL HOLES 13/6 " DIAMETER EXCEPT AS NOTED

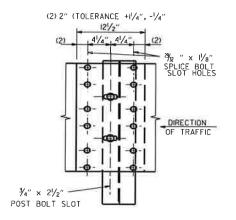
HOLE PUNCHING DETAIL FOR STEEL POST & WOOD OR PLASTIC BLOCKOUTS

NOTE: BLOCKS SHALL BE THE SAME TYPE THROUGHOUT THE PROJECT LIMITS.

FOR 7/8 " DIA. HOLES (TYP.) FOR 7/8 " DIA. HICH-STRENGTH BOLTS NOTE: SEE STANDARD DRAWING GR-IOA FOR GUARD RAIL POST EMBEDMENT DEPTHS.

CONNECTOR PLATE

CONNECTOR PLATE SHALL BE AASHTO M270, CR. 36 AND SHALL BE GALVANIZED AFTER FABRICATION. GALVANIZING SHALL CONFORM TO SUBSECTION 807.19 OF THE STANDARD SPECIFICATIONS. CONNECTOR PLATE TO BE BOLTED TO SPECIAL END SHOE USING "DIA. HIGH STRENGTH BOLTS, WITH THE HEADS PLACED ON THE TRAFFIC FACE. WASHERS SHALL BE USED UNDER THE HEAD AND NUT. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AND SHALL CONFORM TO SUBSECTION 807.06.



THRIE BEAM RAIL SPLICE AT POST

ENERAL NOTES

THE THRE BEAM RAIL, SPECIAL END SHOE, AND THE TRANSITION SECTION SHALL BE MADE OF STEEL AND SHALL BE 12 GAGE. ZINC COATING SHALL BE TYPE I.

RAIL POSTS SHALL BE SET PERPENDICULAR TO THE ROADWAY PROFILE GRADE AND VERTICALLY IN CROSS SECTION.

ALL BOLTS SHALL BE SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND NO MORE THAN $3^{\rm H}4^{\rm H}$ BEYOND IT.

ALL LAP SPLICES, INCLUDING SPECIAL END SHOES, SHALL BE MADE IN THE DIRECTION SHOWN ON STANDARD DRAWINGS GR-9 & GR-13.

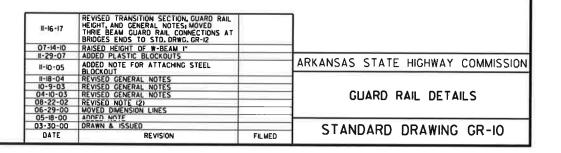
REFER TO STD. DRWG. GR-II FOR POST DETAILS.

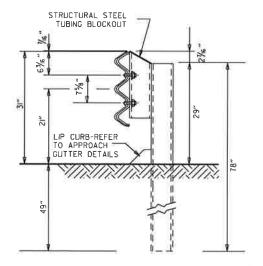
USE THRIE BEAM GUARD RAIL COMPONENTS OF SAME MATER

USE THRIE BEAM GUARD RAIL COMPONENTS OF SAME MATERIAL FOR ENTIRE JOB.

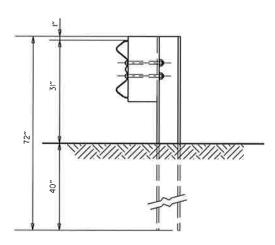
THRIE BEAM POSTS SHALL BE SAME MATERIAL AS W-BEAM POSTS FOR ENTIRE JOB.

WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. ISTRUCTURAL OR
BETTER 9,7f (1400 f) OR NO. 1350 f SOUTHERN PINE.

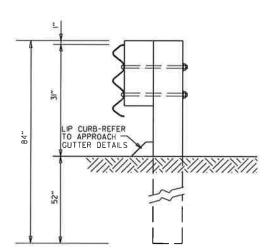




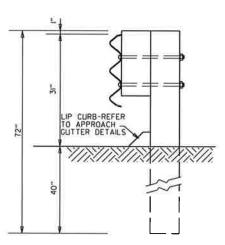
THRIE BEAM RAIL WITH STEEL TUBING BLOCKOUT AND STEEL POST POSTS 1-7



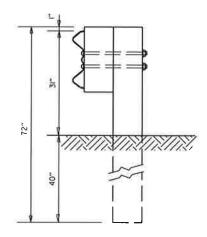
W-BEAM TO THRIE BEAM TRANSITION RAIL WITH WOOD OR PLASTIC BLOCKOUT AND STEEL POST POST 8



THRIE BEAM RAIL
WITH WOOD OR PLASTIC
BLOCKOUTS & WOOD POSTS
POSTS I-6



THRIE BEAM RAIL
WITH WOOD OR PLASTIC
BLOCKOUT & WOOD POST
POST 7

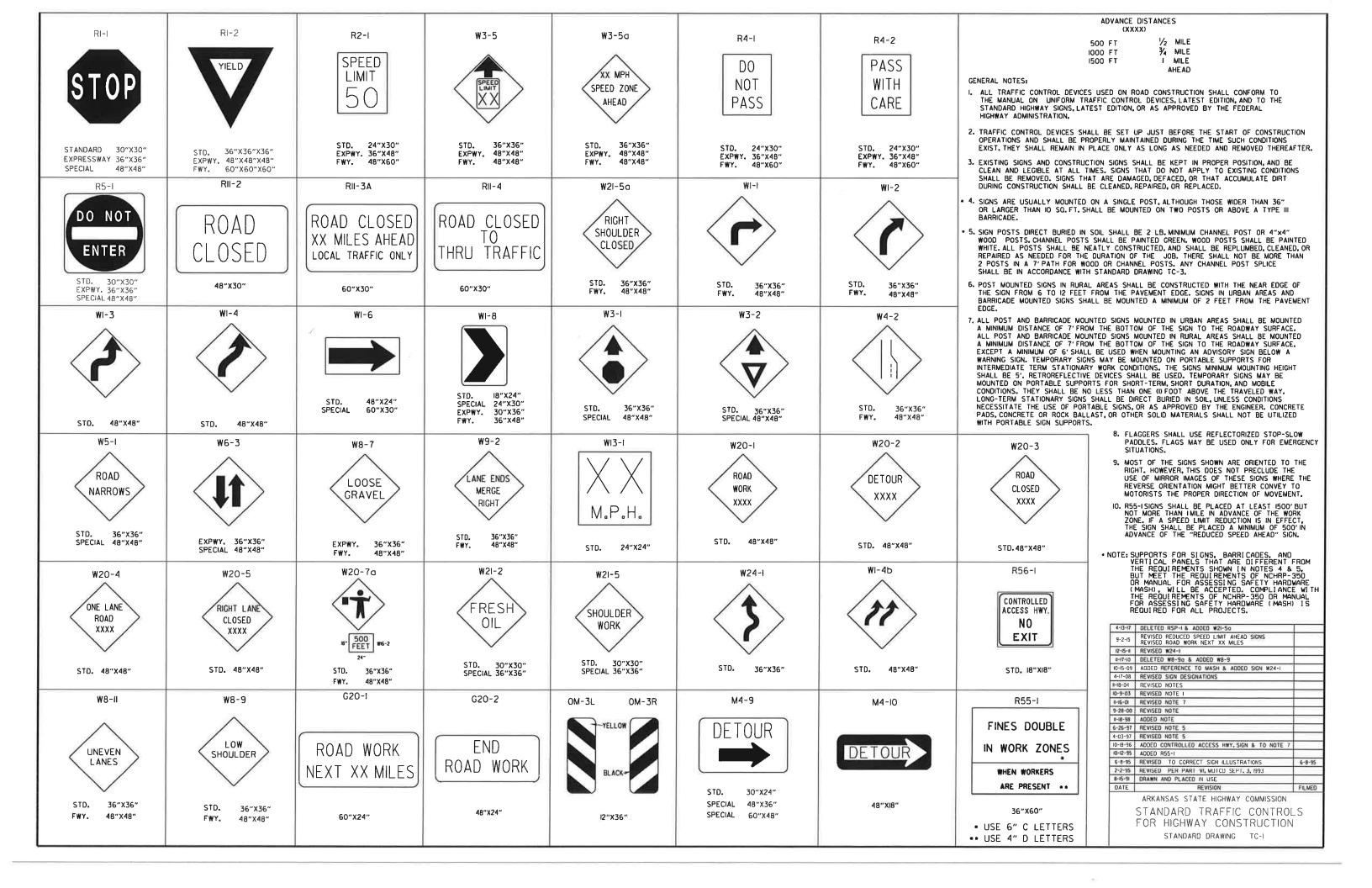


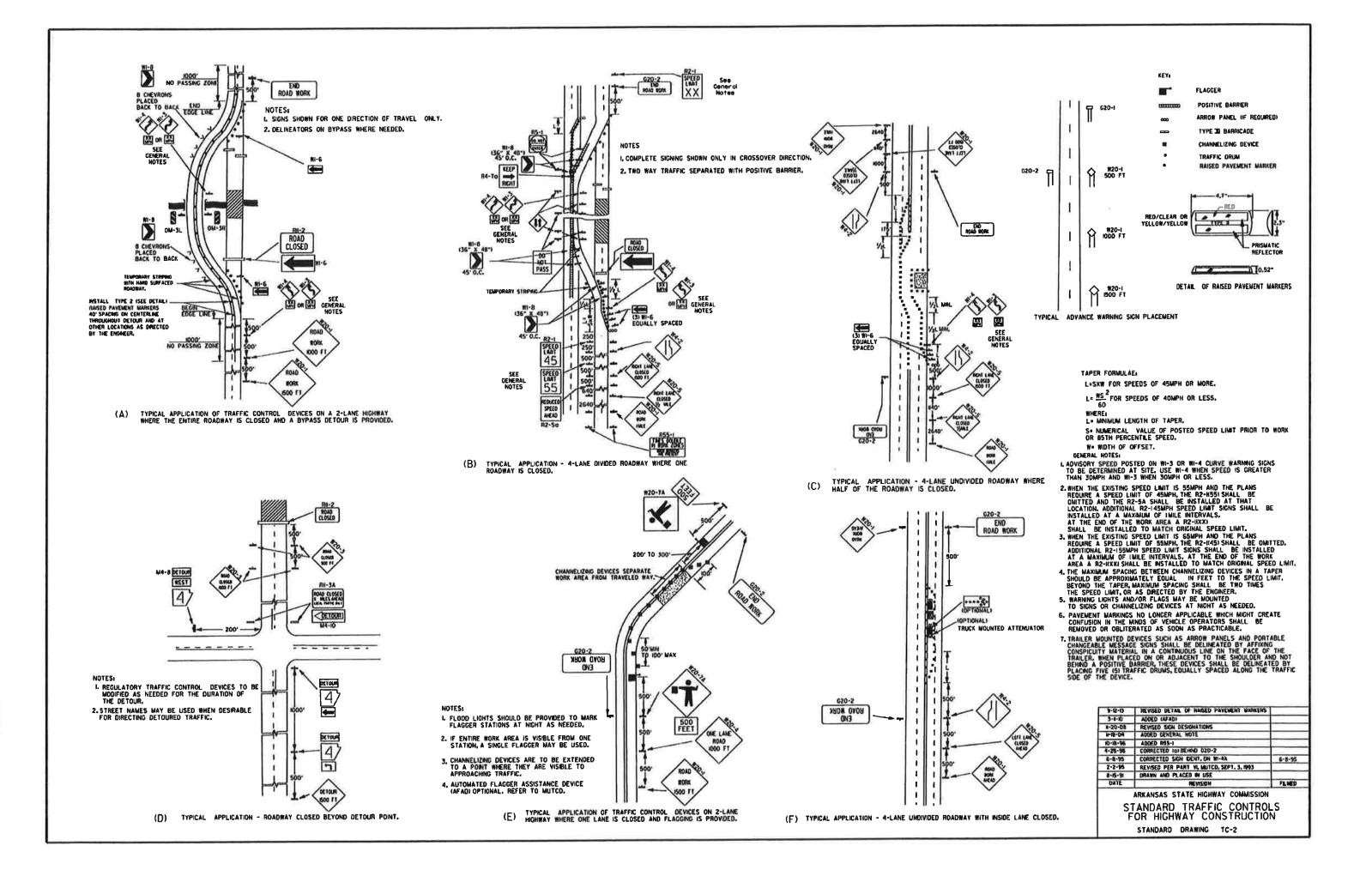
W-BEAM TO THRIE BEAM TRANSITION RAIL WITH WOOD OR PLASTIC BLOCKOUT & WOOD POST POST 8

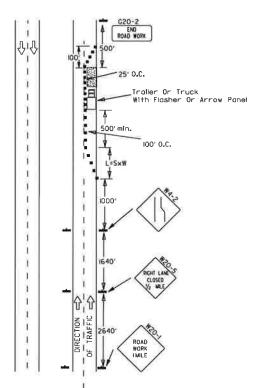
GENERAL NOTES:
RAIL POSTS SHALL BE SET PERPENDICULAR TO THE ROADWAY PROFILE GRADE AND VERTICALLY IN CROSS SECTION.

WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. ISTRUCTURAL OR BETTER 9.7f (4000 f) OR NO.11350 f SOUTHERN PINE.

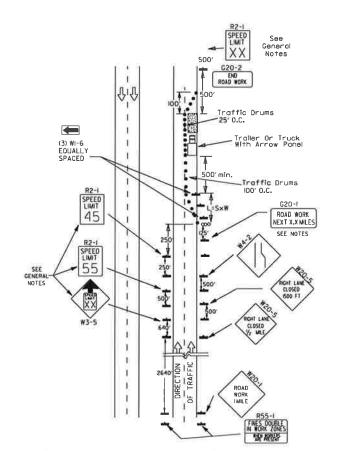
			ARKANSAS STATE HIGHWAY COMMISSION
11-16-17	REVISED GUARD RAIL HEIGHT, CHANGED STD. DWG, NUMBER FROM GR-IOA TO GR-II		GUARD RAIL DETAILS
07-14-10	REVISED POST 8 DIMENSIONS		JOHNS MAIL BETALES
11-29-07	ADDED PLASTIC BLOCKOUTS		
08-22-02	REVISED LIP CURB NOTE		
03-30-00	DRAWN & ISSUED		STANDARD DRAWING GR-II
DATE	REVISION	FILMED	3 I ANDARD DRAWING GR-II



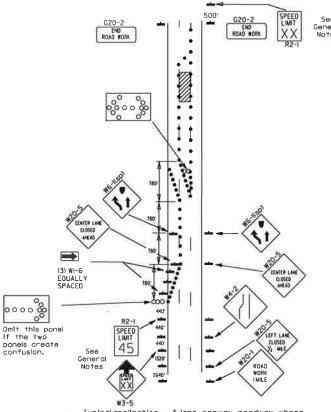




(A) Typical application - daytime maintenance operations of short duration on a 4-lane divided roadway where half of the roadway is closed.



Typical application - construction operations of intermediate to long term duration on a 4-lane divided roadway where half of the roadway is closed.



Typical application - 3-lane oneway roadway where center lane is closed.

OOO Arrow Panel(If Required)

- Channelizing Device
- Traffic drum

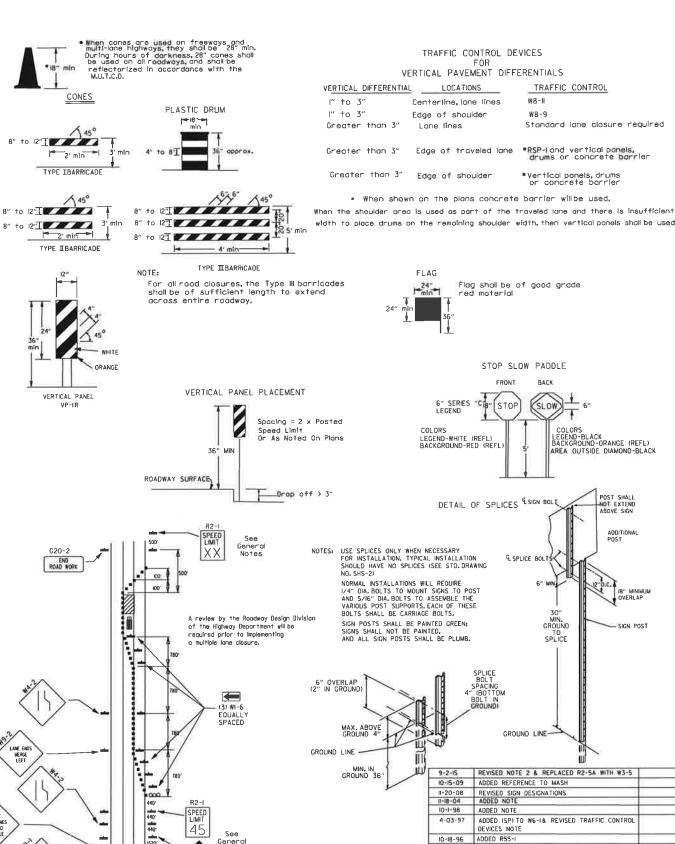
GENERAL NOTES:

- A speed limit reduction may be implemented ONLY when designated in the plan or when recommended by the Roadway Design Division.
- 2. When the existing speed limit is 55mph and the plans require a speed limit of 45mph, the R2-I(55) shall be omlitted and the W3-5 shall be Installed at that location, Additional R2-I45mph speed limit signs shall be Installed at a maximum of Imile Intervals. At the end of the work area a R2-I(XX) shall be Installed to match original speed limit.
- 3. When the existing speed limit is 65mph and the plans require a speed limit of 55mph, the R2-1(45) shall be omitted. Additional R2-155mph speed limit signs shall be installed at a maximum of imile intervals. At the end of the work area a R2-1(XX) shall be installed to match original speed limit.
- The maximum spacing between channelizing devices in a taper should be approximately equal in feet to the speed limit. Beyond the taper maximum spacing shall be two times the speed limit or as directed by the Engineer.
- 5. Warning lights and/or flags may be mounted to signs or channelizing devices at night as needed.
- 6. Pavement markings no longer applicable which might create confusion in the minds of vehicle operators shall be removed or obliterated as soon as practicable.
- 7. The G20-Isign will be required on jobs of over two miles in length. When the lane closure is not at the beginning of the project, the G20-Isign shall be erected I25' in advance of the job limit. Additional W20-I (I MILE) signs are not required in advance of lane closures that begin inside the project limits.
- 8. Flaggers shall use STOP/SLOW paddles for controlling traffic through work zones. Flags may be used only for emergency situations.
- All plastic drums and cones shall meet the requirements of NCHRP-350 or Manual For Assessing Safety Hardware (MASH).

M.H

(\bigcirc) Typical application - closing multiple lanes of a multilane highway.

ID. Trailer mounted devices such as arrow panels and portable changeable message signs shall be delineated by affixing conspicuity material in a continuous line on the face of the trailer. When placed on or adjacen to the shoulder and not behind a positive barrier, these devices shall be delineated by placing five (5) traffic drums, equally spaced along the traffic side of the device.



LEGEND-BLACK BACKGROUND-ORANGE (REFL)

AREA OUTSIDE DIAMOND-BLACK

MIN. GROUND

SPLICE

10-12-95 MOVED UPPER SPLICE

DATE

6-8-95 REVISED SPLICE DETAIL, TEXT

8+15-91 DRAWN AND PLACED IN USE

2-2-95 REVISED PER PART VI, MUTCD, SEPT. 3, 1993

STANDARD DRAWING TC-3

REVISION ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS

FOR HIGHWAY CONSTRUCTION

ADDITIONAL POST

- SIGN POST

6-8-95

