ARKANSAS HIGHWAY COMMISSION ARDOT-EQUIPMENT AND PROCUREMENT DIVISION BID INVITATION

Contract Number: H-19-291H	BID OPENING LOCATION: ARDOT Equipment and	MAIL TO: ARDOT Equipmen					
Bid Opening Date: <u>March 26, 2019</u> Time: <u>11:00 a.m.</u>							
Sealed bids for furnishing the commodities and/or services described below, subj delivery locations until the above-noted bid opening date and time, and then publi attachments when appropriate, or bids will be rejected. Late bids and unsigned	icly opened at the above-noted bid op	his Bid Invitation will be repending location. Bids mu	eceived at the above-noted mail and ust be submitted on this form, with				
In compliance with this Bid Invitation and subject to all the Conditions thereof, the un opposite each item,	ndersigned offers and agrees to furnis	h any and all items upon w	vhich prices are quoted, at the price set				
Company Name:							
Address:							
City:State:Zip:							
Federal Tax ID or Social Security No.:	Signature: Signature must be legible, Unsigned bids will be reject) and in ink.				
Item Description		Quantity Unit U	Init Price Amount				
 Maintenance at pricing set forth on the attached B shall be for a 1 year period from Date of Award thr whichever comes first, with the option to renew up ALL OR NONE BIDS ONLY WILL BE CONSI All bidders should complete and return the Elip Page 2 of Standard Bid Conditions – Item 18) a A current copy of the DFA Illegal Immigram Conditions – Item 17) should also be submitted The Bid Invitation, Bid Form and Specifications a as fully and effectively as if set forth in detail herei It shall be understood that by submission of bid tha acceptable by the Department either in whole or in conditions. The parties hereto agree that this condrivers. The parties hereto agree that this conditions. The parties hereto agree that this conditions. Bid Bond in the amount of \$500.00 required of all company checks are not acceptable as Bid Bond Performance Bond in the amount of \$5000.00 will Personal and company checks are not acceptable as a solution. TWO SIGNED COPIES OF BID INVITATION Bids and Specifications are available on-line by on "Commodities and Services Bids/Contracts after award of bid/contract. If you have any quality and participation is a solution of bid/contract. If you have any quality of bid/contract. 	 a March 31, 2020 or to a monomutual agreement by b IDERED. gible Bidder Certification and Restriction of Boycott t Contractor Disclosure (with bid.) are parts of the contract and an part, shall consider this lontract in all things shall bidders at time of bid operations and the required of successfiends as Performance Box (AND BID FORM MUS) y going to the ARDOT W Information". Tabulation 	maximum amount ooth parties. (Attachment A) a t of Israel Certifica Certification (see ad by this reference bid a contract agree be governed by the ening or bid will b ge 1 of Bid Invitati ul bidder prior to ponds. See Condition T BE SUBMITT Veb Site – <u>www.a</u> ons will also be a	and Disclosure Form (see ation issued with this bid. Page 1 of Standard Bid ce are incorporated herein ecified and, if bid is found eement bound under these the Laws of the State of be rejected. <u>Personal and</u> ion. providing goods/services. ition 4 on page 1 of Bid <u>FED.</u> <u>ardot.gov</u> and clicking available at this site				

ARKANSAS STATE HIGHWAY COMMISSION

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 guarantee 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.
- "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.
- 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 <u>https://www.ark.org/dfa/immigrant/index.php</u>.
- 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 GR	ANT DI	SCLOSI	CONTRACT AND GRANT DISCLOSURE AND CERTIFICATION FORM	
Failure to complete all of the subcontractor:	e following informatic SUBCONTRACTOR NAME:	Information TOR NAME:	n may result in a delay in obtainin	ig a contract	, lease, pur	Fallure 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. SUBCONTRACTOR: SUBCONTRACTOR NAME: Yes No	
			IS THIS FOR:				
TAXPAYER ID NAME:			🗌 Goods?	Services?		🗆 Both?	
YOUR LAST NAME:			FIRST NAME:			M.L.:	
ADDRESS:							
CITY:			STATE:		ZIP CODE:	E: COUNTY:	
<u>AS A CONDITION OF</u> WITH ANY ARKANS	- OBTAIN AS STATI	<u>VING, E</u> E AGEN	<u>AS A CONDITION OF OBTAINING, EXTENDING, AMENDING</u> WITH ANY ARKANSAS STATE AGENCY. THE FOLLOWING IN	OR REN	JEWING	<u>AS A CONDITION OF OBTAINING, EXTENDING, AMENDING, OR RENEWING A CONTRACT, LEASE, PURCHASE AGREEMENT, OR GRANT AWARD</u> WITH ANY ARKANSAS STATE AGENCY. THE FOLLOWING INFORMATION MUST BE DISCLOSED:	NT AWARD
				FOR	VIDN	FOR INDIVIDUALS*	
Indicate below if: you, your spouse or the Commission Member or State Employee	r spouse or	the broth	Indicate below if: you, your spouse or the brother, sister, parent, or child of you Commission Member, or State Employee	u or your sp	ouse is a c	you or your spouse is a current or former: member of the General Assembly, Constitutional Officer, State Board or	State Board or
	Mark	Mark (✓)	Name of Position of Job Held	-	For How Long?	What is the person(s) name and how are they related to you? (i.e Jane O. Public. spouse. John O. Public. Jr., child. etc.)	i.
	Current	Former	(senator, representative, name of board/ commission, data entry. etc.)	From MM/YY	To MM/YY		Relation
General Assembly				-	-		
Constitutional Officer							
State Board or Commission Member							
State Employee							
\Box None of the above applies	ve appli	es		10 10 10 10 10 10 10 10 10 10 10 10 10 1			
			Ð	R AN E	TITN	FOR AN ENTITY (BUSINESS)*	
Indicate below If any of the Constitutional Officer, Stat. or Commission Member, or	e following e Board or r State Emp	persons, c Commissic oloyee. Poy	urrent or former, hold any posi on Member, State Employee, or sition of control means the pow	tion of cont r the spouse ver to direct	trol or hold e, brother, t the purch	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, 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 or Commission Member, or State Employee. Position of control means the power to direct the purchasing policies or influence the management of the entity.	neral Assembly, al Officer, State Board
	Mark (🗸)	5	Name of Position of Job Held	For How Long?	Long?	What is the person(s) name and what is his/her % of ownership interest and/or what is his/her position of control?	st and/or
	Current	Former	(senator, representative, name of board/ commission, data entry, etc.)	From MM/YY	To MM/YY	Person's Name(s) Ownership Interest (%)	ship Position of t (%) Control
General Assembly							
Constitutional Officer							
State Board or Commission Member							
State Employee							

UNONE OF THE ABOVE APPLIES

	Contract and Grant Disclosure and Certification Form	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.	Governor's Executive Order 98-04, or a ns of this contract. Any contractor, whe hall be subject to all legal remedies avai	any violation of any rule, regulation ether an individual or entity, who fa ilable to the agency.	ve Order 98-04, or any violation of any rule, regulation, or policy adopted pursuant to that Any contractor, whether an individual or entity, who fails to make the required disclosure or I 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:	nding, amending, or renewing a contrac	t with a state agency I agree as follo:	VS:
 Prior to entering into any agreement with any subcontr CONTRACT AND GRANT DISCLOSURE AND CERTIFICATI whereby I assign or otherwise delegate to the person or my contract with the state agency. 		quent to the contract date, I will req ractor shall mean any person or ent cion, all, or any part, of the performar	actor, prior or subsequent to the contract date, I will require the subcontractor to complete a ION FORM. Subcontractor shall mean any person or entity with whom I enter an agreement entity, for consideration, all, or any part, of the performance required of me under the terms of
2. I will include the following language as	I will include the following language as a part of any agreement with a subcontractor:	tractor:	
Failure to make any disclosure requence that Order, shall be a material breared breared breared be any or policy shall be subjected by the sub	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.	3-04, or any violation of any rule, reguire party who fails to make the require contractor.	lation, or policy adopted pursuant to d disclosure or who violates any rule,
 No later than ten (10) days after enter of the CONTRACT AND GRANT DISCLOS the subcontract to the state agency. 	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 of the CONTRACT AND GRANT DISCLOSURE AND CERTIFICATION FORM completed by the subcontractor and a statement containing the dollar amount of the subcontract to the state agency.	ractor, whether prior or subsequent eted by the subcontractor and a state	o the contract date, I will mail a copy ment containing the dollar amount of
Signature	Title	a)	Date
Vendor Contact Person	Title		Phone No.
الحمصير الحم كمار			
Agency use Only			~
Agency Agency Number Name	Agency Contact Dercon	Contact	Contract or
			drant NO.

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-19-291H
AASIS Number	N/A
Description	Guard Rail Maintenance/ District 6
Contractor name	

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

10

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.

	Arkances Department of Transportation
Name of public entity	Arkansas Department of Transportation
Description of product or service	H-19-291H/Guard Rail Maintenance/ District 6
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.

08102018

ARKANSAS DEPARTMENT OF TRANSPORTATION CONTRACT FOR GUARD RAIL MAINTENANCE BID FORM

CONTRACT NO. H- 19-291H

BIDDER_____

Prices bid herein are subject to discount of _____% for payment of invoices within _____ days.

Item No.	Description	Approx. Useage	Unit	Unit Price	Extended Amount
1.	Guardrail (Section 1)	50	L.F.		
2.	Guardrail (Section 2)	800	L.F.		
3.	Guardrail (Section 3)	75	L.F.		
4.	Guardrail (Section 4)	50	L.F.		
5.	Guardrail (Terminal Rail, Type 2, 12 Ga.)	2	EA.		
6.	SKT W-beam Guardrail End Section, 12 Ga.	1	EA.		
7.	Guardrail Backup Plate	15	EA.		
8.	Guardrail Line Posts (Steel)	45	EA.		
9.	Guardrail Line Posts (Concrete)	40	EA.		
10.	Guardrail Line Posts (Wood)	15	EA.		
11.	Guardrail Spacer Blocks (Steel)	71	EA.		
12.	Guardrail Spacer Blocks (Concrete)	2	EA.		
13.	Guardrail Spacer Blocks (Wood)	16	EA.		
14.	Guardrail Spacer Blocks (Plastic)	33	EA.		
15.	Terminal Anchor Posts (Type A)	1	EA.		
16.	Terminal Anchor Posts (Type B)	1	EA.		

*To be furnished by Arkansas Department of Transportation.

ARKANSAS DEPARTMENT OF TRANSPORTATION CONTRACT FOR GUARD RAIL MAINTENANCE <u>BID FORM</u>

CONTRACT NO. H-19-291H BIDDER_____

Item No.	Description	Approx. Useage	Unit	Unit Price	Extended Amount
17.	Removal & Disposal of Guardrail (Type A)	900	L.F.	Thee	Anoun
18.	Removal & Disposal of Guardrail (Type B)	1	L.F.		
19.	Guardrail Terminal Section	2	EA.		
20.	Straighten and Align existing Guardrail Posts	34	EA.		
21.	Furnish & Install Guardrail System (Type A)	50	L.F.		
22.	Furnish & Install Guardrail System (Type B)	1	L.F.		
23.	Furnish & Install Bridge Connection - Curb	3	EA.		
24.	Furnish & Install Bridge Connection – Parapet Wall	1	EA.		
25.	Steel Tube (6"x8"x54"x3/16")	1	EA.		
26.	Soil Plate (18"x24"x1/4")	4	EA.		
27.	Guard Rail Terminal (Type 2), Wood Posts (5-1/2"x7-1/2"x45")	2	EA.		
28.	Guard Rail Terminal (Type 2), Wood Posts (6"x8"x6'0")	3	EA.		×.
29.	Guard Rail Terminal (Type 2), Wood Posts (5-1/2"x7-1/2"x14")	1	EA.		
30.	Pipe Sleeve (2" Std. Pipe x 5-1/2")	1	EA.		

ARKANSAS DEPARTMENT OF TRANSPORTATION CONTRACT FOR GUARD RAIL MAINTENANCE <u>BID FORM</u>

CONTRACT NO. H-19-291H

BIDDER_____

Item No.	Description	Approx. Useage	Unit	Unit Price	Extended Amount
31.	Bearing Plate (8"x8"x5/8")	1	EA.	Thee	Amount
32.	Cable Anchor Bracket	2	EA.		
33.	SKT Anchor Box	1	EA.		
34.	Cable Assembly	3	EA.		
35.	Offset Strut	1	EA.		
36.	Guard Rail Extruder	1	EA.		
37.	SKT Ground Strut Hinged Post	1	EA.		
38.	Furnish and Install Terminal (Type 2) System (50')	1	EA.		
39.	ET2000 HBA Post #1 Top	1	EA.		
40.	ET2000 HBA Post #1 Bottom	1	EA.		
41.	ET2000 HBA Angle Strut	1	EA.		
42.	Steel Yielding Terminal Post SYTP	3	EA.		
43.	Guard Rail (Thrie Section)	2	EA.		
44.	SKT First Post Assembly Top	1	EA.	Ĩ4	
45.	SKT First Post Assembly Bottom	1	EA.		
46.	SKT Second Post Assembly Top	1	EA.		
47.	SKT Second Post Assembly Bottom	1	EA.		
48.	Guard Rail(Thrie Transition Section)	1	EA.		

ARKANSAS DEPARTMENT OF TRANSPORTATION CONTRACT FOR GUARD RAIL MAINTENANCE BID FORM

CONTRACT NO. H-19-291H

BIDDER_____

Item	D	Approx.		Unit	Extended
No.	Description Guard Rail Connector Plate	Useage	Unit	Price	Amount
49.		1	EA.		
	(Thrie Beam)		- D t		
50.	Guard Rail Spacer Blocks	7	EA.		
	(Steel Tube- Thrie)			7	
51.	Guard Rail Spacer Blocks	1	EA.		
	(Wood- Thrie)				
52.	Furnish & Install Thrie Beam	1	EA.		
	Guard Rail Terminal				
53.	Special End Shoe (Thrie Beam)	1	EA.		
54.	Thrie Beam Guardrail Steel Post	7	EA.		
	(78")				
55.	Thrie Beam Guardrail Transition	1	EA.		-
	Steel Post (72")				
*56.	Guard Rail Post (Concrete)	1	EA.		
	(Dept. Supplied)				
*57.	Guard Rail Spacer Block	1	EA.		
	(Concrete) (Dept. Supplied)				
		-			
		-			
0					
			BI	D TOTAL:	

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 these counties within District Six (Garland, Hot Spring, Lonoke, and Prairie). 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 Seven Headquarters at Camden 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 Six 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.

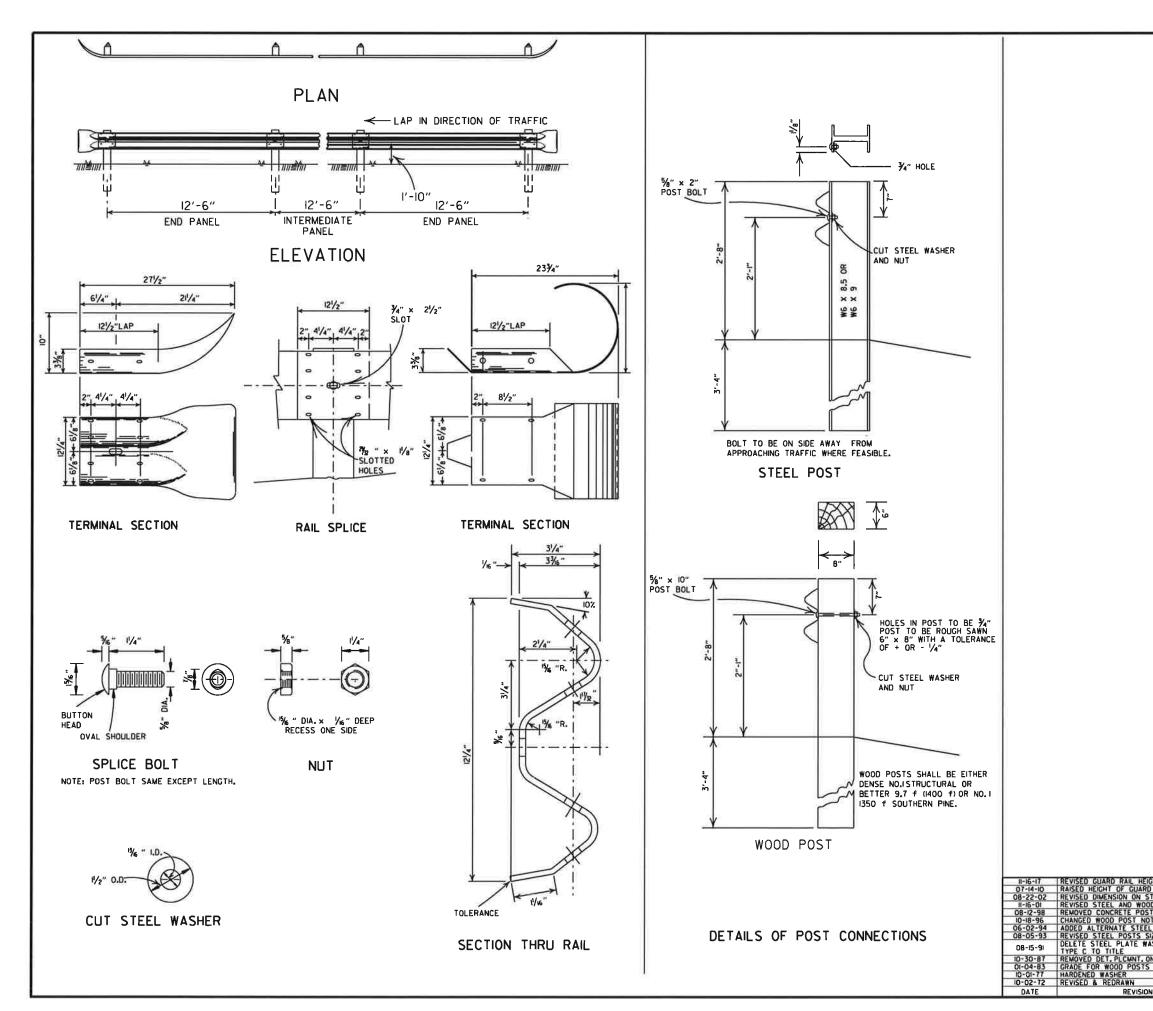
ARKANSAS DEPARTMENT OF TRANSPORTATION LITTLE ROCK, ARKANSAS ARDOT -EQUIPMENT & PROCUREMENT DIVISION

Contract No. H-19-291H

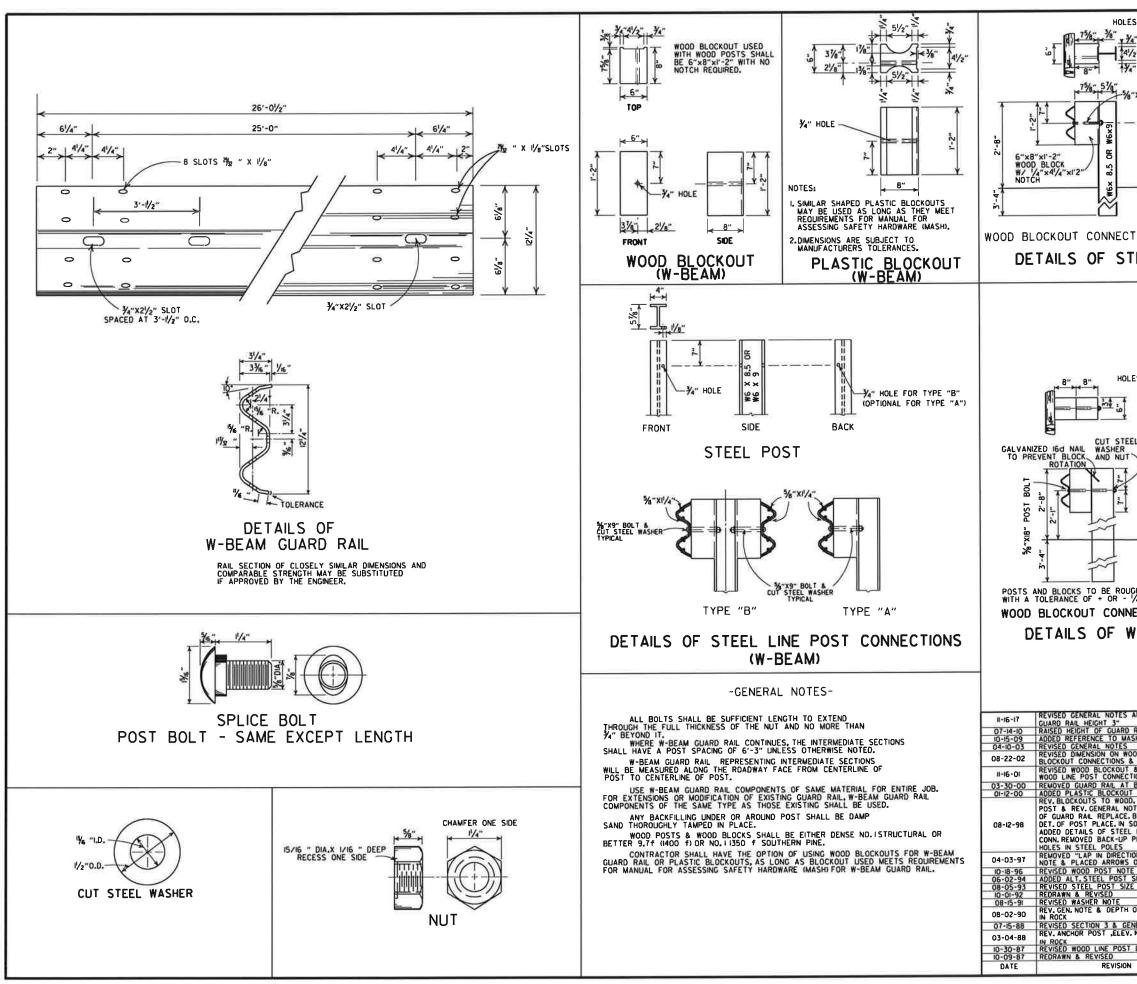
<u>Cooperative Purchasing</u>. Other tax-supported entities* in Arkansas (cities, counties, state agencies, school districts, etc.) may purchase commodities covered in this Contract on an individual basis under the same specifications and conditions, and at the pricing set forth by each vendor, all at 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.

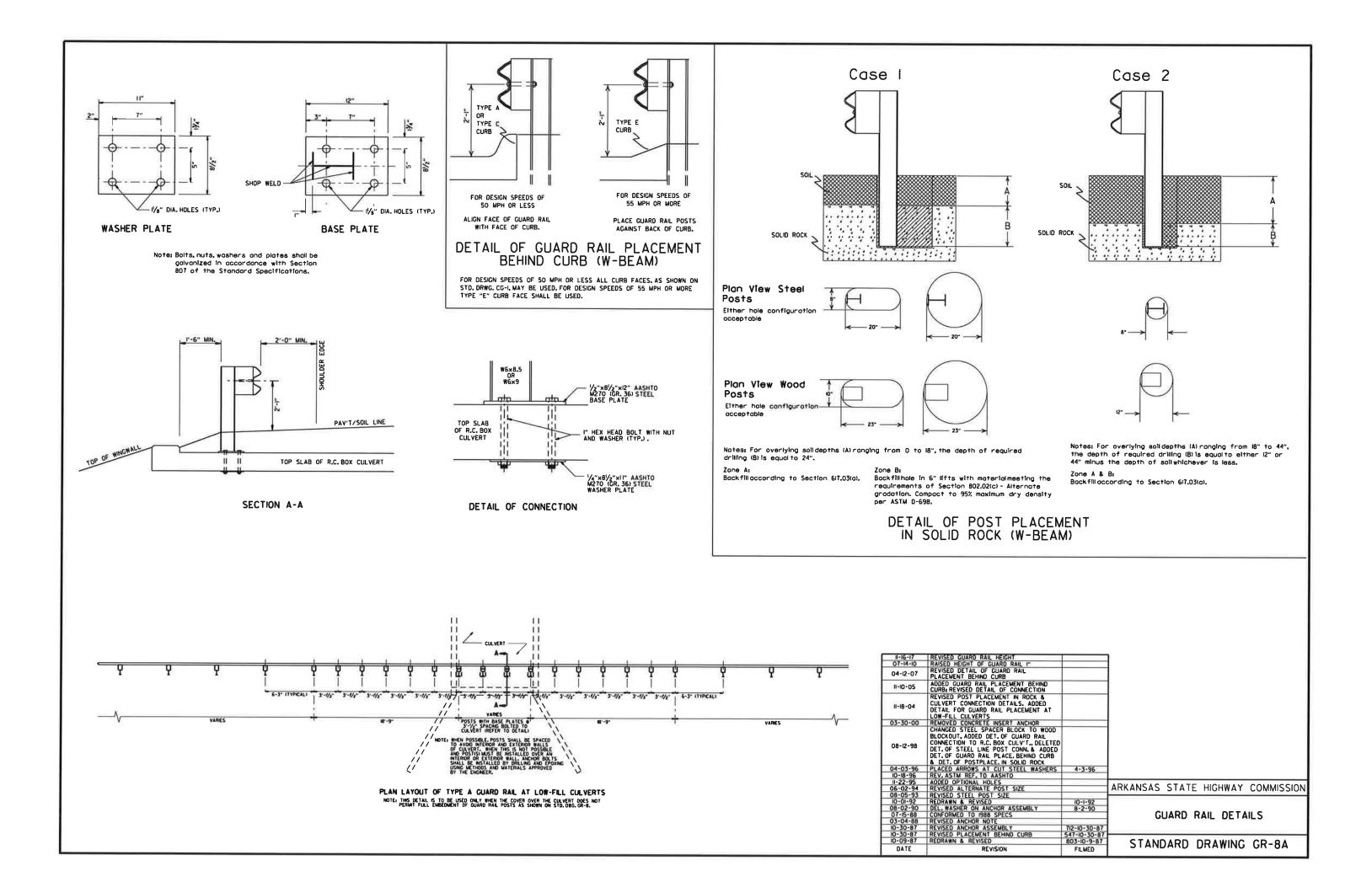
*Tax-supported entities are defined as those receiving more than half of total funding from appropriated tax funds.

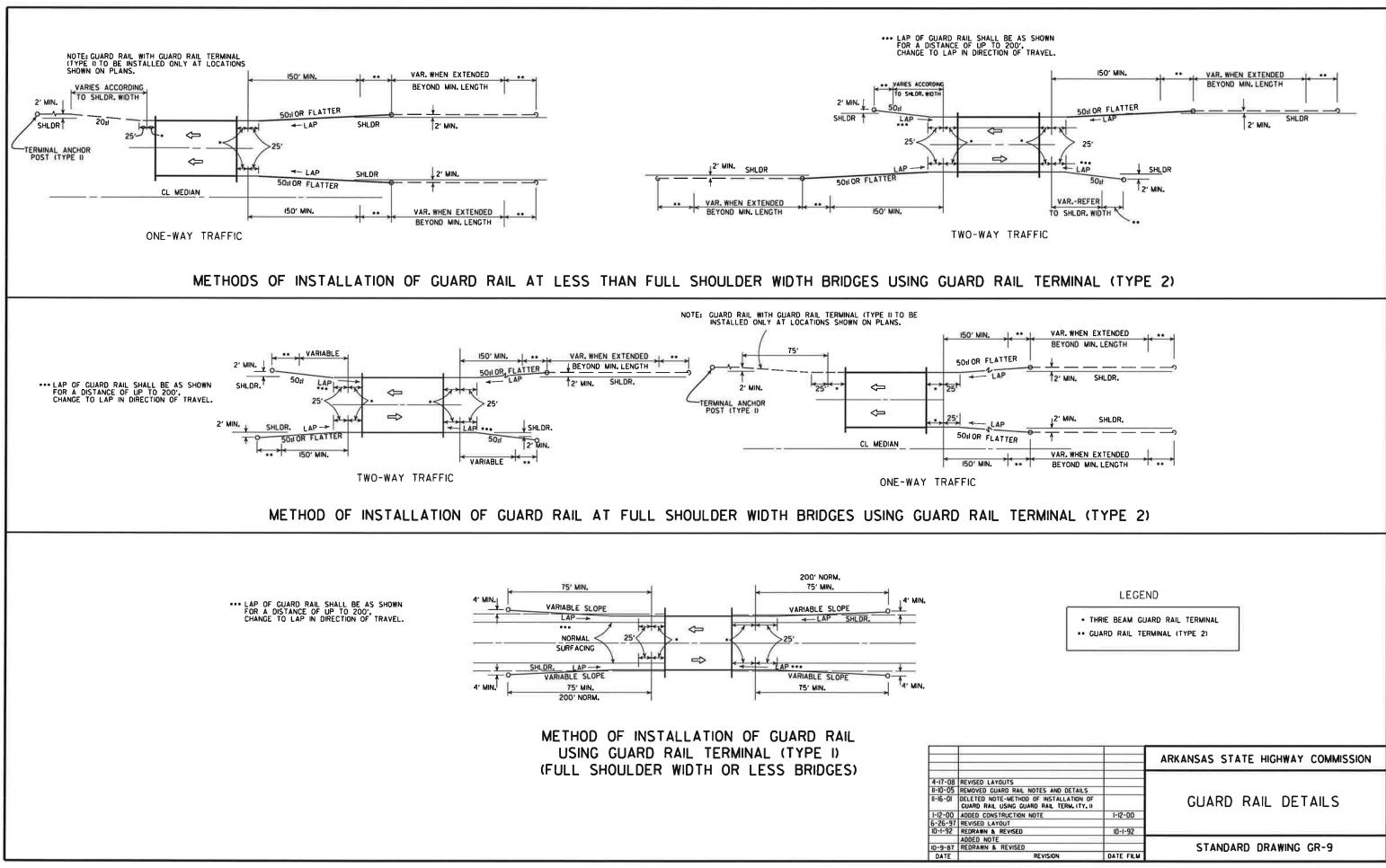


GHT	//	1
RAIL I"		1
TEEL POST		1
O POST		
T		ADVANCAS STATE UCUNAN COMMISSION
ITE	10-18-96	ARKANSAS STATE HIGHWAY COMMISSION
L POST SIZE		
IZE	8-5-93	GUARD RAIL DETAILS (TYPE C)
ASHER & ADDED	8-15-91	STREET / ROAD BARRICADE OR
N HWY.	555-11-20-87	TEMPODADY INCTALLATION
	679-1-4-83	TEMPORARY INSTALLATION
	922-10-1-72	
	521-10-2-72	STANDARD DRAWING GR-7
N	FILMED	STANDARD DRAWING ON T

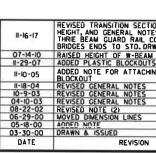


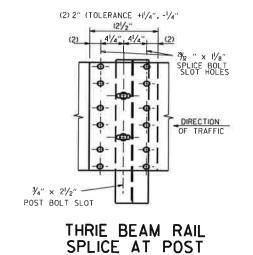
LES IN POSTS AND	BLOCKS TO	θΕ ¾" DIA.
<u>Ya"</u>		- M5 756 - 36" Har
41/2"		
7		
21011		7% 5%
%"X9"BOL T	5	5%"X9"BOLT
	1	
	-8-	6"x8"x1'-2" ප
		6"x8"x1'-2" PLASTIC BLOCK W/ 36"x41/2"x1'2" NOTCH
-		NUTCH X
	.4.	ž
	in .	↓Ľ
CTIONS		STIC BLOCKOUT CONNECTIONS
CTIONS		
TEEL LIN	E POSI	
W-BE	AM)	CONNECTIONS
DLES IN POSTS AN	ID BLOCKS TO	D BE ≯₄" DIA.
Ŧ		
L.		
.		B
EEL		GAL VANIZED 16d NAIL CUT STEEL
1		CALVANIZED IGO NAIL TO PREVENT BLOCK ROTATION
,)		
Y		
Ť		%""XIB" POST BOL
¥		
		× + +
		3
		m 7~T
		¥
DUCH SAWN 6"X8"		
INECTIONS		PLASTIC BLOCKOUT CONNECTIONS
WUUD LIN		T CONNECTIONS
(W-B	EAM)	
S AND RAISED		1
D RAIL I"		
WOOD & PLASTIC		
WOOD & PLASTIC & STEEL POST IT & DETAILS OF CTIONS		
T BRIDGE ENDS		
UT OD. DELETED CONC.		
NOTE DELETED DET.		
E. BEHIND CURB & SOLID ROCK.&		
EL LINE POST P PLATE, REVISED		
Contention and the second second		
TION OF TRAFFIC"		
DTE T SIZE NZE	9.6 03	
	8-5-93 10-1-92	ARKANSAS STATE HIGHWAY COMMISSION
H OF ANC. POST	8-15-91 8-2-90	
GENERAL NOTES	0-2-30	GUARD RAIL DETAILS
V. NOTES & POST	780-3-4-86	
ST DETAIL	546-10-30-87 802-10-9-87	
ON	FILMED	STANDARD DRAWING GR-8



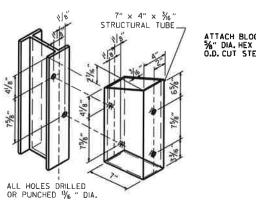


		ARKANSAS STATE HIGHWAY COMMISSION				
NOTES AND DETAILS OF INSTALLATION OF		GUARD RAIL DETAILS				
NOTE	1-12-00	GUARD RAIL DETAILS				
REVISION	ID-I-92	STANDARD DRAWING GR-9				









ATTACH BLOCKOUT TO POST USING $\frac{1}{20}$ " DIA. HEX HEAD BOLTS WITH $\frac{1}{2}$ " O.D. CUT STEEL WASHERS AND NUT.

REFER TO STD. DRWG. GR-IFOR POST DETAILS. 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.1 1350 f SOUTHERN PINE.

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

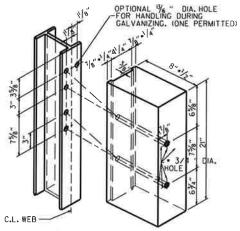
ALL BOLTS SHALL BE SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND NO MORE THAN $3^{\rm +}4^{\prime\prime}$ Beyond it.

GENERAL NOTES: THE THRIE 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.

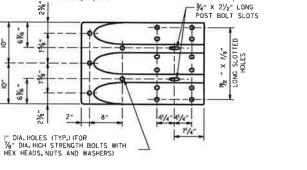
NOTE: BLOCKS SHALL BE THE SAME TYPE THROUGHOUT THE PROJECT LIMITS.

HOLE PUNCHING DETAIL FOR STEEL POST & WOOD OR PLASTIC BLOCKOUTS

ALL HOLES 13/6 " DIAMETER EXCEPT AS NOTED



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



0

SPECIAL END SHOE

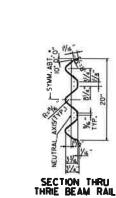
2"-6=

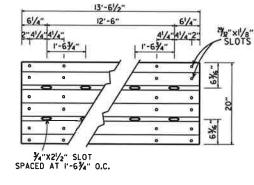
3" ±

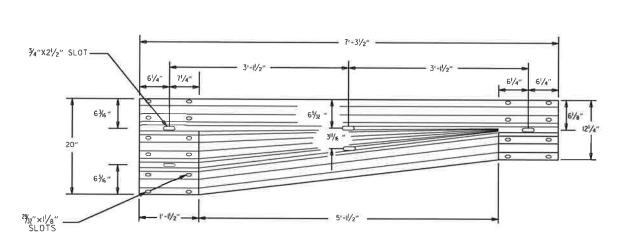
534"

%

0

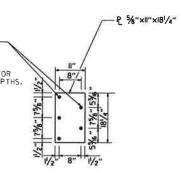






THRIE BEAM RAIL

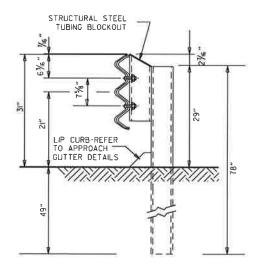
TRANSITION SECTION



CONNECTOR PLATE

CONNECTOR PLATE SHALL BE AASHTO M270, GR. 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.

	FILMED	STANDARD DRAWING GR-10
		GUARD RAIL DETAILS
S ING STEEL		ARKANSAS STATE HIGHWAY COMMISSION
ION, GUARD RAIL ES; MOVED CONNECTIONS AT IWG. GR-12		-



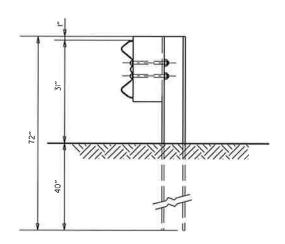
GENERAL NOTES:

VERTICALLY IN CROSS SECTION.

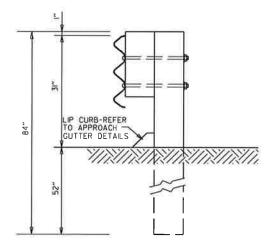
RAIL POSTS SHALL BE SET PERPENDICULAR TO THE ROADWAY PROFILE GRADE AND

WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. ISTRUCTURAL OR BETTER 9.7f (400 f) OR NO.11350 f SOUTHERN PINE.

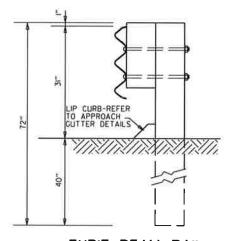
THRIE BEAM RAIL WITH STEEL TUBING BLOCKOUT AND STEEL POST POSTS I-7



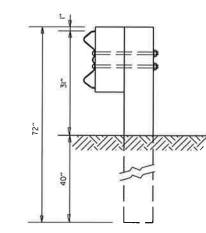
W-BEAM TO THRIE BEAM TRANSITION RAIL WITH WOOD OR PLASTIC BLOCKOUT AND STEEL POST POST 8



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



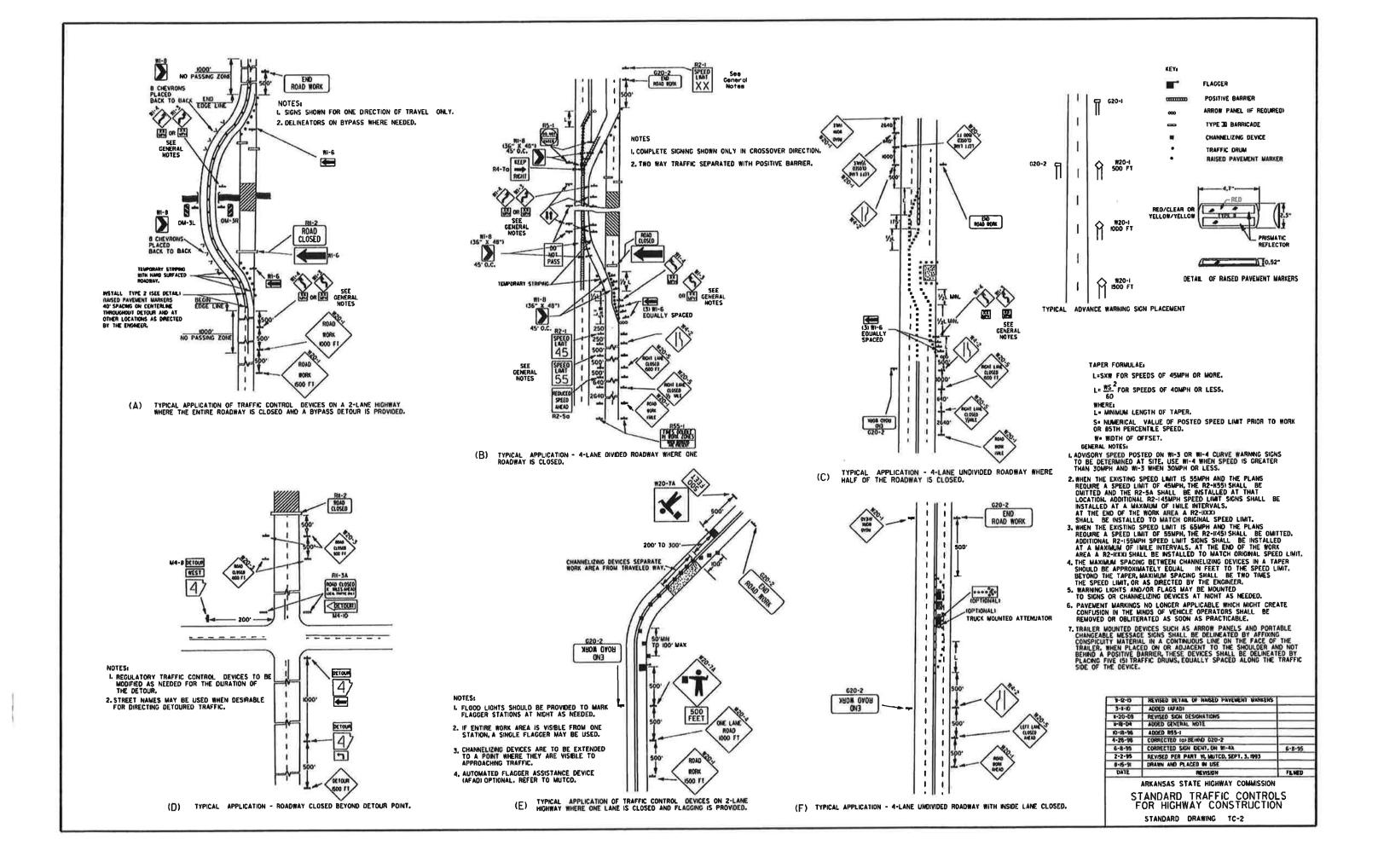
W-BEAM TO THRIE BEAM TRANSITION RAIL WITH WOOD OR PLASTIC BLOCKOUT & WOOD POST POST 8

REVISED GUARD RAIL HEIG 8-16-17 07-14-10 REVISION DATE

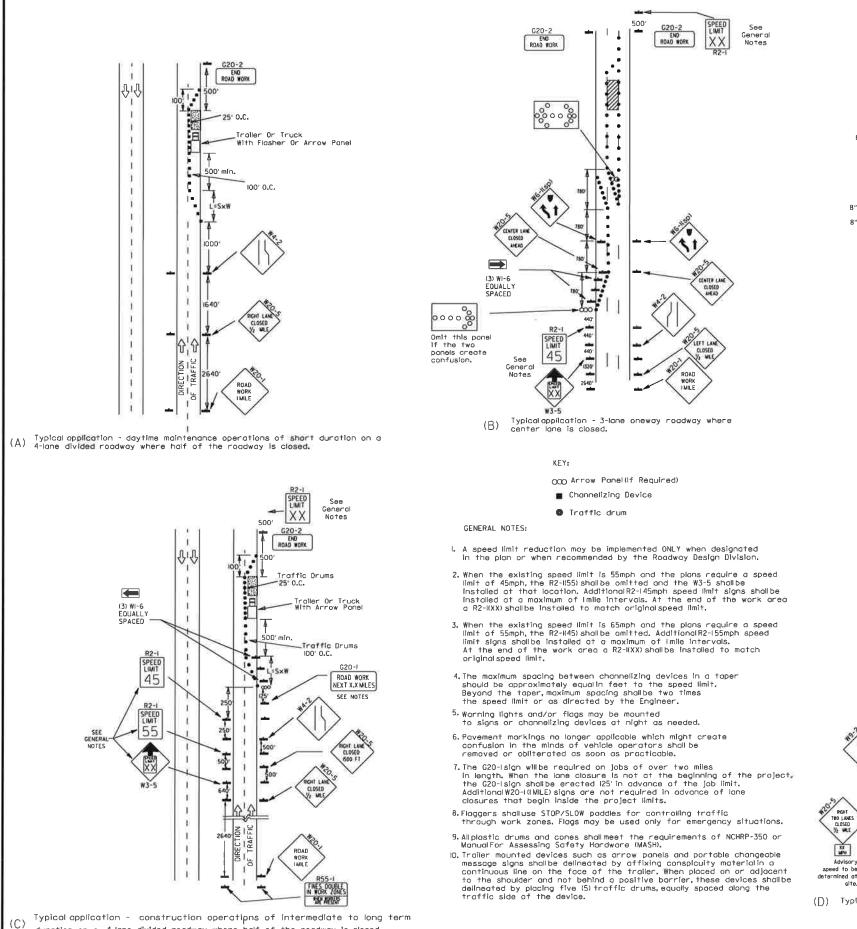
		ARKANSAS STATE HIGHWAY COMMISSION
CHT, CHANGED CR-IDA TO CR-II ONS ITS		GUARD RAIL DETAILS
N	FILMED	STANDARD DRAWING GR-II

								ADVANCE DISTANCES
STOP	RI-2	R2-I SPEED LIMIT	W3-5	W3-5a XX MPH SPEED ZONE	R4-I DO NOT	R4-2 PASS WITH	GENERAL NOTES:	(XXXX) 500 FT ½ MILE 1000 FT ¾ MILE 1500 FT I MILE AHEAD 5 USED ON ROAD CONSTRUCTION SHALL CONFORM TO
STANDARD 30"X30" EXPRESSWAY 36"X36"	STD, 36"X36"X36"	STD. 24"X30" EXPWY. 36"X48"	STD. 36"X36" EXPWY. 48"X48"	AHEAD STD. 36"X36" EXPWY. 49"X48"	PASS STD. 24"x30" EXPWY. 36"x48"	CARE STD. 24"X30" EXPWY. 36"X48"	THE MANUAL ON UNIFORM TR. STANDARD HIGHWAY SIGNS, LAT HIGHWAY ADMINISTRATION. 2. TRAFFIC CONTROL DEVICES SHA OPERATIONS AND SHALL BE PR EXIST. THEY SHALL REMAIN IN	AFFIC CONTROL DEVICES, LATEST EDITION, AND TO THE EST EDITION, OR AS APPROVED BY THE FEDERAL ALL BE SET UP JUST BEFORE THE START OF CONSTRUCTION OPERLY MAINTAINED DURING THE TIME SUCH CONDITIONS PLACE ONLY AS LONG AS NEEDED AND REMOVED THEREAFTER.
SPECIAL 48"X48"	EXPWY. 48"X48"X48" FWY. 60"X60"X60" RII-2	FWY. 48"X60" RII-3A	FWY. 48"X48" RII-4	FWY. 48"X48" W2I-5a	FWY. 48"X60"	FWY. 48"X60" WI-2	CLEAN AND LEGIBLE AT ALL T SHALL BE REMOVED. SIGNS THA DURING CONSTRUCTION SHALL E	TION SIGNS SHALL BE KEPT IN PROPER POSITION, AND BE IMES. SIGNS THAT DO NOT APPLY TO EXISTING CONDITIONS AT ARE DAMAGED, DEFACED, OR THAT ACCUMULATE DIRT BE CLEANED, REPAIRED, OR REPLACED.
DO NOT ENTER	ROAD CLOSED	ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY	ROAD CLOSED TO THRU TRAFFIC	RIGHT SHOULDER CLOSED		$\langle \boldsymbol{c} \rangle$	OR LARGER THAN IO SO.FT.SH BARRICADE. 5. SIGN POSTS DIRECT BURIED IN WOOD POSTS.CHANNEL POSTS WHITE.ALL POSTS SHALL BE NI REPAIRED AS NEEDED FOR THE	ON A SINGLE POST, ALTHOUGH THOSE WIDER THAN 36" ALL BE MOUNTED ON TWO POSTS OR ABOVE A TYPE III SOIL SHALL BE 2 LB. MINIMUM CHANNEL POST OR 4"×4" SHALL BE PAINTED GREEN. WOOD POSTS SHALL BE PAINTED EATLY CONSTRUCTED, AND SHALL BE REPLUMBED, CLEANED, OR DURATION OF THE JOB. THERE SHALL NOT BE MORE THAN 100 OR CHANNEL POSTS. ANY CHANNEL POST SPLICE I STANDARD DRAWING TC-3.
STD. 30"X30" EXPWY. 36"X36" SPECIAL 48"X48"	48″X30″	60"X30"	60"X30"	STD. 36"X36" FWY. 48"X48"	STD. 36"X36" FWY. 48"X48"	STD. 36"X36" FWY. 48"X48"	THE SIGN FROM 6 TO 12 FEET	L AREAS SHALL BE CONSTRUCTED WITH THE NEAR EDGE OF FROM THE PAVEMENT EDGE. SIGNS IN URBAN AREAS AND ALL BE MOUNTED A MINIMUM OF 2 FEET FROM THE PAVEMENT
WI-3	WI-4	WI-6	STD. 18"X24"	W3-I	W3-2	W4-2	A MINIMUM DISTANCE OF 7'FRO ALL POST AND BARRICADE MOU A MINIMUM DISTANCE OF 7'FRO EXCEPT A MINIMUM OF 6'SHALL WARNING SIGN. TEMPORARY SIGN INTERMEDIATE TERM STATIONAR SHALL BE 5'. RETROREFLECTIVE MOUNTED ON PORTABLE SUPPO CONDITIONS. THEY SHALL BE NO	NTED SIGNS MOUNTED IN URBAN AREAS SHALL BE MOUNTED M THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE. NTED SIGNS MOUNTED IN RURAL AREAS SHALL BE MOUNTED M THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE, L BE USED WHEN MOUNTING AN ADVISORY SIGN BELOW A NS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR Y WORK CONDITIONS. THE SIGNS MINIMUM MOUNTING HEIGHT E DEVICES SHALL BE USED. TEMPORARY SIGNS MAY BE RTS FOR SHORT-TERM, SHORT DURATION, AND MOBILE D LESS THAN ONE (1) FOOT ABOVE THE TRAVELED WAY. SHALL BE DRECT BURIED IN SOIL, UNLESS CONDITIONS
STD. 48″X48″	STD. 48"X48"	SPECIAL 60"X30"	SPECIAL 24"X30" EXPWY. 30"X36" FWY. 36"X48"	STD. 36"X36" SPECIAL 48"X48"	STD. 36"X36" SPECIAL 48"X48"	STD. 36"X36" FWY. 48"X48"	NECESSITATE THE USE OF PORT	TABLE SIGNS, OR AS APPROVED BY THE ENGINEER. CONCRETE AST, OR OTHER SOLID MATERIALS SHALL NOT BE UTILIZED
W5-I ROAD NARROWS	W6-3	W8-7 LOOSE GRAVEL	W9-2 LANE ENDS MERGE RIGHT	WI3-I M.P.H.	W2O-I ROAD WORK XXXX	W2O-2 DETOUR XXXX	W2O-3 ROAD CLOSED XXXX	 PADDLES. FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS. 9. MOST OF THE SIGNS SHOWN ARE ORIENTED TO THE RIGHT. HOWEVER, THIS DOES NOT PRECLUDE THE USE OF MIRROR IMAGES OF THESE SIGNS WHERE THE REVERSE ORIENTATION MIGHT BETTER CONVEY TO MOTORISTS THE PROPER DIRECTION OF MOVEMENT. 10. R55-ISIGNS SHALL BE PLACED AT LEAST ISOO' BUT NOT MORE THAN I MILE IN ADVANCE OF THE WORK ZONE. IF A SPEED LIMIT REDUCTION IS IN EFFECT, THE SIGN SHALL BE PLACED A MINIMUM OF 500' IN
STD. 36"X36" SPECIAL 48"X48"	EXPWY, 36"X36" SPECIAL 48"X48"	EXPWY. 36"X36" FWY. 48"X48"	STD. 36"X36" FWY. 48"X48"	STD. 24"X24"	STD. 48"X48"	STD. 48"X48"	STD. 48"X48"	ADVANCE OF THE "REDUCED SPEED AHEAD" SIGN. • NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM
W20-4 ONE LANE ROAD XXXX	W2O-5 RIGHT LANE CLOSED XXXX	W20-7a	FRESH OIL	W2I-5 SHOULDER WORK	W24-1	WI-4b	R56-I CONTROLLED ACCESS HWY. NO EXIT	THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) IS REQUIRED FOR ALL PROJECTS. 4-03-17 DELETED RSP-1 & ADDED W21-50 9-2-15 REVISED REDUCED SPEED LIMIT AHEAD SIGNS REVISED REDUCED SPEED LIMIT AHEAD SIGNS 12-05-REVISED W24-1 0-07740 DELETED W8-90 & ADDED W8-9
STD. 48"X48"	STD. 48"X48"	STD. 36"X36" FWY. 48"X48"	STD. 30"X30" SPECIAL 36"X36"	STD. 30"X30" SPECIAL 36"X36"	STD. 36"X36"	STD. 48″X48″	STD. 18"X18"	10-IS-09 ADDED REFERENCE TO MASH & ADDED SIGN W24-I 4-I7-08 REVISED SIGN DESIGNATIONS 11-I8-04 REVISED NOTES
W8-II UNEVEN LANES	W8-9 LOW SHOULDER	G20-1 ROAD WORK NEXT XX MILES	620-2 END ROAD WORK	OM-3L OM-3R	M4-9 DETOUR STD. 30"x24"	M4-IO	R55-I FINES DOUBLE IN WORK ZONES WHEN WORKERS ARE PRESENT ••	10-9-03 REVISED NOTE I N-6-01 REVISED NOTE 7 9-28-00 REVISED NOTE 7 9-28-00 REVISED NOTE 7 9-28-00 REVISED NOTE 7 8-98 ADDED NOTE 5 4-03-97 REVISED NOTE 5 10-18-96 ADDED CONTROLLED ACCESS HWY, SIGN & TO NOTE 7 10-12-95 ADDED CONTROLLED ACCESS HWY, SIGN & TO NOTE 7 10-12-95 ADDED CONTROLLED ACCESS HWY, SIGN & TO NOTE 7 10-12-95 REVISED TO CORRECT SIGN ILLUSTRATIONS 6-8-95 REVISED TO CORRECT SIGN ILLUSTRATIONS 2-2-95 REVISED TO CORRECT SIGN ILLUSTRATIONS 8-15-91 DRAWN AND PLACED IN USE DATE REVISION
STD. 36"X36" FWY. 48"X48"	STD. 36"X36" FWY. 48"X48"	60"X24"	48″X24″	I2"X36"	SPECIAL 48"X36" SPECIAL 60"X48"	48"XI8"	36"x60" • USE 6" C LETTERS •• USE 4" D LETTERS	ARKANSAS STATE HIGHWAY COMMISSION STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION STANDARD DRAWING TC-1

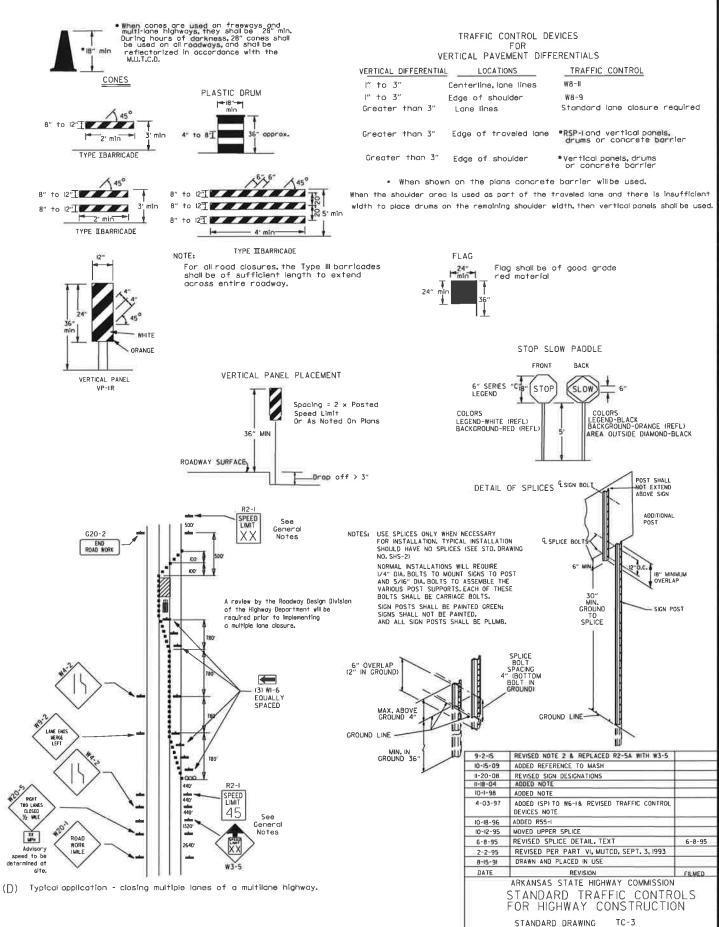
500	FΤ	1/2	MILI
000	FΤ	₹4	MILE
500	FT	1	MILE
			AHF A

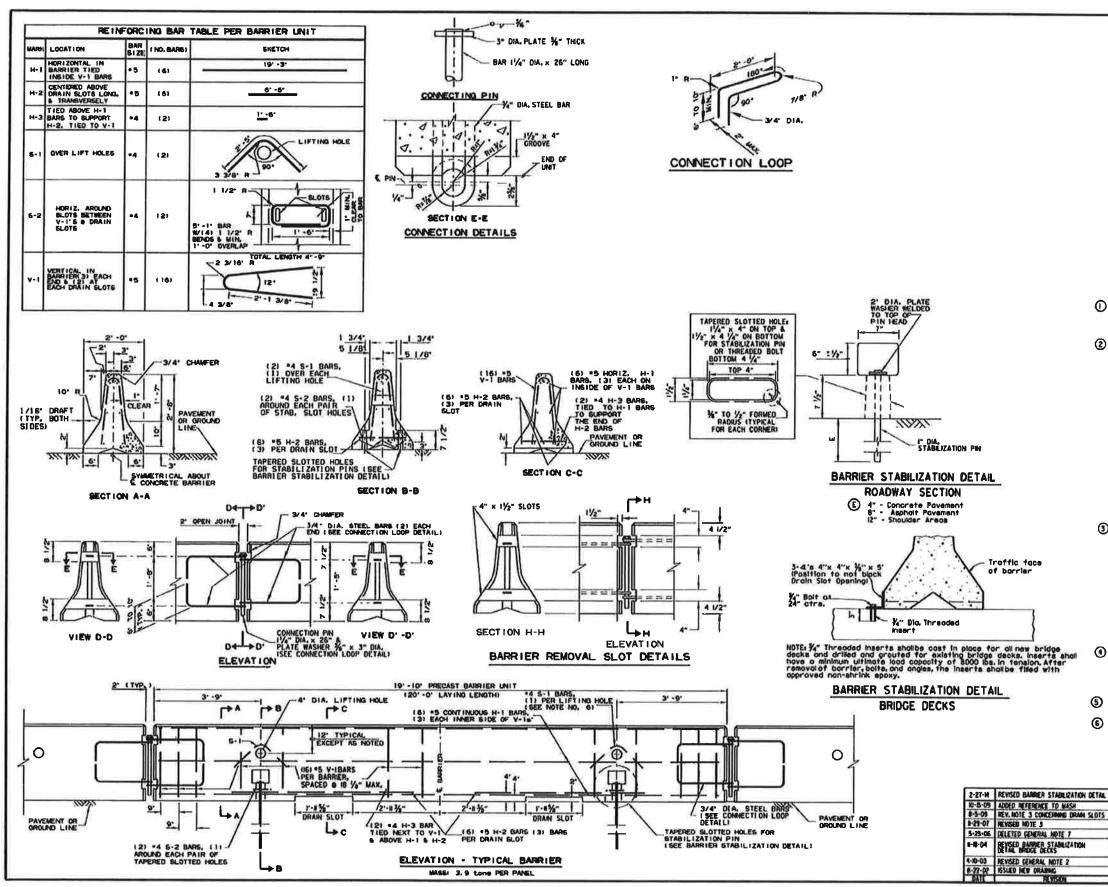


Channelizing devices



duration on a 4-lone divided roadway where half of the roadway is closed.





<u>GeneralNotes</u> () The contractor shall furnish the Precest Concrete Barrier Units and shallbe responsible for the monufacture, shipment, storage, piccement and removal. At the completion of the project, the precost units will remain the property of the contractor. (2) Moteriols shall meet the following minimum requirements: Concrete: 2500 psi compressive strength of 28 doys. Reinforcing Steel: AASHTO W 31or M 53, Grade 50 StructuralSteel: AASHTO-W2TO Grade 35 shaltbe used for the Connection Pin, Connection Loops, and Stabilization Pins. A One Piece Pin with a 3" rounded top may be used in place of the detailed Connection Pin. Delinectors: Delinectors shaltbe mounted at 10" spacing on top of precast barrier. In opplications where barrier walls within 6 feet of a traffic ions, additional delineators shallbe placed on the barrier at 10' spacing approximately one (0) foot from the top of the barrier. Delineators shallbe on the AHID Qualified Products List for Construction Concrete Barrier Markers, Construction Concrete Barrier Markers, Definestor color shollbe in accordence with the Manucion Uniform Traffic Controllevices. Poyment for defineators shallbe considered included in the price bid per Lin.Ft.for "Furnishing and installing Precest Concrete Barrier". The contractor shallceriffy to the Engineer that the material and the design used in the precest barrier units meets the requirements as shown on this standard drawing. (3) Other Precast Concrete Borriers that have been crash tested and approved by the Federal Highway Administration to meet the requirements of NCHRP-350 test level3 or Manual For Assessing Sofety Hordware (MASH) will be accepted in lieu of the barrier above. Drain slots ahalibe provided as needed or as directed by the Engineer. The Contractor shall furnish a certification of NCHRP Report 350 or Manual For Assessing Sofety Hordware (MASH) contractor and turnish a certification of NCHRP Report 350 or Manual For Assessing Sofety Hordware (MASH) contractor any other types of precast barrier to be used. The certification shall state that the precast concrete barrier meets the requirements of NCHRP Report 350 or Manual For Assessing Sofety Hordware (MASH) contractor shall state that the precast concrete barrier meets the requirements of NCHRP Report 350 or Manual For Assessing Sofety Hordware (MASH) approval letter with all attachments. Precast concrete barrier units shalls to and installed in accordance with crash testing and documentation provided in the FHWA approval letter. Winding at shopes will not be allowed in a continuous line of units.
 (4) Dowel holes in payement or bridge wides that are to respin in payment. (3) Dowel holes in povement or bridge slobs that are to remain in place shall be filled, klotes in concrete povement and bridge slobs shall be filled with an approved non-shrink epsky grout. Noise in asphalt povement shall be filled with an opproved capnait joint filler, Poyment for drilling and filling holes to be included in the price for various (5) Attach Units To Roadway Surface with Stabilization Pins and to Deck Slabs using bolts when required. 6 A 4" White PVC Sleeve may be used to form the Lifting Hole and if used the Sleeve is to be left in place. ARKANSAS STATE HIGHWAY COMMISSION STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION -TEMPORARY PRECAST BARRIER

STANDARD DRAWING TC-4

