

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 5/28/2015

Control	0213-08-077
Project	BR 1502(228)
Highway	US 190
County	JASPER

Ladies/Gentlemen:

Attached please find an addendum on the above captioned project. Included in the attachment is an addendum notification which details the changes and the respective proposal pages which were added and/or changed.

Except for new bid insert pages, it is unnecessary to return any of the pages attached.

Bid insert pages must be returned with the bid proposal submitted to the Department, unless your firm is submitting a bid using a computer print out. The computer print out must be changed to reflect the new bid item information.

Contractors and material suppliers, etc. who have previously been furnished informational proposals are not being furnished a copy of the addendum. If you have a subcontractor on the above project, please advise them of this addendum. Acknowledgment of this addendum is not requested if your company has been issued a proposal stamped "This Proposal Issued for Informational Purposes."

You are required to acknowledge receipt of this addendum on the Addendum Acknowledgement form contained in your bid proposal by placing a mark in the box next to the respective addendum.

Failure to Acknowledge receipt of this addendum in your bid proposal will result in your bid not being read.

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: BR 1502(228)

CONTROL: 0213-08-077

COUNTY: JASPER

LETTING: 06/03/2015

REFERENCE NO: 0527

PROPOSAL ADDENDUMS

-
- PROPOSAL COVER
 - BID INSERTS (SH. NO.: 1-7 of 7)
 - GENERAL NOTES (SH. NO.: "C", "D", "K" & "M")

 - SPEC LIST (SH. NO.: 3 of 3)
 - SPECIAL PROVISIONS:
 - ADDED:

 - DELETED:

 - SPECIAL SPECIFICATIONS:
 - ADDED: 4027

 - DELETED: 4027

 - OTHER: Plan sheets 5A, 5E, 5F, 6, 10, 15 & 175

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

Bid Insert
Revised quantity of Item 403-6001
Bid Inserts consolidated from 8 sheets to 7 sheets

Spec List
Deleted SS4027 and replaced with revised SS4027

General Notes
Revised notes for Items 8, 409 & 502

Plans
Plan sheet 5A (General Notes) Revised notes for Item 8
Plan sheet 5E (General Notes) Revised notes for Item 409
Plan sheet 5F (General Notes) Revised notes for Item 502
Plan sheet 6 (E&Q Sheet) Revised quantity of Item 403
Plan sheet 10 (Summary of Roadway Quantities) Revised quantity of Item 403
Plan sheet 15 (Temporary Shoring) Revised details and notes
Plan sheet 175 (EPIC Notes) Revised notes

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	100	6002		PREPARING ROW DOLLARS and CENTS	STA	31.790	1
	104	6054		REMOVING CONCRETE(MOW STRIP) DOLLARS and CENTS	LF	845.000	2
	105	6016		REMOVING STAB BASE & ASPH PAV(16") DOLLARS and CENTS	SY	513.000	3
	110	6001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	3,633.000	4
	110	6002		EXCAVATION (CHANNEL) DOLLARS and CENTS	CY	3,386.000	5
	110	6003		EXCAVATION (SPECIAL) DOLLARS and CENTS	CY	933.000	6
	132	6006		EMBANKMENT (FINAL)(DENS CONT)(TY C) DOLLARS and CENTS	CY	6,912.000	7
	160	6003		FURNISHING AND PLACING TOPSOIL (4") DOLLARS and CENTS	SY	2,849.000	8
	164	6009		BROADCAST SEED (TEMP) (WARM) DOLLARS and CENTS	SY	1,849.000	9
	164	6011		BROADCAST SEED (TEMP) (COOL) DOLLARS and CENTS	SY	1,849.000	10
	164	6021		CELL FBR MLCH SEED(PERM)(RURAL)(SANDY) DOLLARS and CENTS	SY	2,849.000	11

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	168	6001		VEGETATIVE WATERING DOLLARS and CENTS	MG	.100	12
	247	6053		FL BS (CMP IN PLC)(TYD GR1-2)(FNAL POS) DOLLARS and CENTS	CY	904.000	13
	310	6005		PRIME COAT (AE-P) DOLLARS and CENTS	GAL	543.000	14
	316	6398		AGGR (TY-PD GR-4 OR TY-PL GR-4)(SAC-B) DOLLARS and CENTS	CY	21.000	15
	316	6405		ASPH (AC-20-5TR OR AC-20XP) DOLLARS and CENTS	GAL	978.000	16
	340	6047		D-GR HMA(SQ) TY-C SAC-A PG70-22 DOLLARS and CENTS	TON	1,879.000	17
	341	6064		D-GR HMA TY-D PG 70-22 (LEVEL-UP) DOLLARS and CENTS	TON	423.000	18
	354	6052		PLANE ASPH CONC PAV (0" TO 3 1/2") DOLLARS and CENTS	SY	881.000	19
	400	6005		CEM STABIL BKFL DOLLARS and CENTS	CY	132.000	20
	403	6001		TEMPORARY SPL SHORING DOLLARS and CENTS	SF	17,381.000	21
	405	6002		FOUNDATION LOAD TEST (D4945) (PILE) DOLLARS and CENTS	EA	1.000	22
	409	6001		PRESTR CONC PIL (16 IN SQ) DOLLARS and CENTS	LF	1,150.000	23

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	409	6004		PRESTR CONC PIL (24 IN SQ) DOLLARS and CENTS	LF	3,304.000	24
	420	6013		CL C CONC (ABUT) DOLLARS and CENTS	CY	56.200	25
	420	6025		CL C CONC (BENT) DOLLARS and CENTS	CY	153.300	26
	422	6001		REINF CONC SLAB DOLLARS and CENTS	SF	28,000.000	27
	422	6015		APPROACH SLAB DOLLARS and CENTS	CY	77.000	28
	425	6035		PRESTR CONC GIRDER (TX28) DOLLARS and CENTS	LF	3,892.000	29
	432	6033		RIPRAP (STONE PROTECTION)(18 IN) DOLLARS and CENTS	CY	1,821.000	30
	432	6045		RIPRAP (MOW STRIP)(4 IN) DOLLARS and CENTS	CY	59.000	31
	450	6006		RAIL (TY T223) DOLLARS and CENTS	LF	1,168.000	32
	454	6001		SEALED EXPANSION JOINT (4 IN) (SEJ - A) DOLLARS and CENTS	LF	148.000	33
	496	6010		REMOV STR (BRIDGE 100 - 499 FT LENGTH) DOLLARS and CENTS	EA	1.000	34
	500	6001		MOBILIZATION DOLLARS and CENTS	LS	1.000	35

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	502	6001		BARRICADES, SIGNS AND TRAFFIC HAN- DLING DOLLARS and CENTS	MO	12.000	36
	506	6002	001	ROCK FILTER DAMS (INSTALL) (TY 2) DOLLARS and CENTS	LF	100.000	37
	506	6011	001	ROCK FILTER DAMS (REMOVE) DOLLARS and CENTS	LF	100.000	38
	506	6020	001	CONSTRUCTION EXITS (INSTALL) (TY 1) DOLLARS and CENTS	SY	312.000	39
	506	6024	001	CONSTRUCTION EXITS (REMOVE) DOLLARS and CENTS	SY	312.000	40
	506	6038	001	TEMP SEDMT CONT FENCE (INSTALL) DOLLARS and CENTS	LF	4,000.000	41
	506	6039	001	TEMP SEDMT CONT FENCE (REMOVE) DOLLARS and CENTS	LF	4,000.000	42
	512	6005		PORT CTB (FUR & INST)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	2,910.000	43
	512	6029		PORT CTB (MOVE)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	630.000	44
	512	6053		PORT CTB (REMOVE)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	2,910.000	45
	530	6002		INTERSECTIONS (ACP) DOLLARS and CENTS	SY	228.000	46
	538	6001		RIGHT OF WAY MARKERS DOLLARS and CENTS	EA	1.000	47

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	540	6001		MTL W-BEAM GD FEN (TIM POST) DOLLARS and CENTS	LF	1,370.000	48
	540	6006		MTL BEAM GD FEN TRANS (THRIE-BEAM) DOLLARS and CENTS	EA	4.000	49
	542	6001		REMOVE METAL BEAM GUARD FENCE DOLLARS and CENTS	LF	1,800.000	50
	544	6001		GUARDRAIL END TREATMENT (INSTALL) DOLLARS and CENTS	EA	2.000	51
	544	6003		GUARDRAIL END TREATMENT (REMOVE) DOLLARS and CENTS	EA	2.000	52
	545	6003		CRASH CUSH ATTEN (MOVE & RESET) DOLLARS and CENTS	EA	2.000	53
	545	6005		CRASH CUSH ATTEN (REMOVE) DOLLARS and CENTS	EA	2.000	54
	545	6019		CRASH CUSH ATTEN (INSTL)(S)(N)(TL3) DOLLARS and CENTS	EA	2.000	55
	644	6071		RELOCATE SM RD SN SUP&AM TY TWT DOLLARS and CENTS	EA	4.000	56
	647	6002		RELOCATE LRSA DOLLARS and CENTS	EA	1.000	57
	658	6014		INSTL DEL ASSM (D-SW)SZ (BRF)CTB (BI) DOLLARS and CENTS	EA	12.000	58
	658	6016		INSTL DEL ASSM (D-SW)SZ (BRF)GF1 (BI) DOLLARS and CENTS	EA	16.000	59

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	658	6060		REMOVE DELIN & OBJECT MARKER ASSMS DOLLARS and CENTS	EA	3.000	60
	662	6016		WK ZN PAV MRK NON-REMOV (W)24"(SLD) DOLLARS and CENTS	LF	24.000	61
	662	6048		WK ZN PAV MRK REMOV (REFL) TY I-C DOLLARS and CENTS	EA	284.000	62
	662	6050		WK ZN PAV MRK REMOV (REFL) TY II-A-A DOLLARS and CENTS	EA	268.000	63
	666	6036		REFL PAV MRK TY I (W)8"(SLD)(100MIL) DOLLARS and CENTS	LF	110.000	64
	666	6048		REFL PAV MRK TY I (W)24"(SLD)(100MIL) DOLLARS and CENTS	LF	25.000	65
	666	6303		RE PM W/RET REQ TY I (W)4"(SLD)(100MIL) DOLLARS and CENTS	LF	6,445.000	66
	666	6312		RE PM W/RET REQ TY I (Y)4"(BRK)(100MIL) DOLLARS and CENTS	LF	2,602.000	67
	666	6315		RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL) DOLLARS and CENTS	LF	3,010.000	68
	668	6077		PREFAB PAV MRK TY C (W) (ARROW) DOLLARS and CENTS	EA	2.000	69
	672	6007		REFL PAV MRKR TY I-C DOLLARS and CENTS	EA	6.000	70
	672	6009		REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	119.000	71

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	ITEM NO	DESC CODE	S.P. NO.				
	672	6016		TRAFFIC BUTTON TY W DOLLARS and CENTS	EA	889.000	72
	672	6017		TRAFFIC BUTTON TY Y DOLLARS and CENTS	EA	841.000	73
	677	6001		ELIM EXT PAV MRK & MRKS (4") DOLLARS and CENTS	LF	6,430.000	74
	677	6003		ELIM EXT PAV MRK & MRKS (8") DOLLARS and CENTS	LF	110.000	75
	677	6007		ELIM EXT PAV MRK & MRKS (24") DOLLARS and CENTS	LF	24.000	76
	677	6008		ELIM EXT PAV MRK & MRKS (ARROW) DOLLARS and CENTS	EA	2.000	77
	681	6001		TEMP TRAF SIGNALS DOLLARS and CENTS	EA	2.000	78
	4027	6001		TEMP CONSTRUCTION ACCESS DOLLARS and CENTS	LS	1.000	79
	6001	6002		PORTABLE CHANGEABLE MESSAGE SIGN DOLLARS and CENTS	EA	4.000	80

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GENERAL NOTES:

A non-mandatory pre-bid conference will be held on Thursday, May 21, 2015 at 2:00PM at Texas Department of Transportation, Beaumont District Office, District Assembly Room located at 8350 Eastex Freeway, Beaumont, TX 77708. Prospective bidders are encouraged to attend.

Maintain the existing and proposed sections of highway and its appurtenances which are to be constructed, reconstructed or modified in this project. Repair those sections damaged by the contractor's forces at Contractor's expense.

A portion of the waterway under the trestle, the existing and proposed bridges shall remain open at all times for canoers and boaters to navigate from one side of the highway to the other. The portion to remain open shall be in a location that has sufficient water depth and of adequate width to allow these vessels to cross. At no time will the entire width of the opening be allowed to be closed. The minimum height clearance for the openings shall be no less than the current clearance of the existing bridge. The location and configuration of the opening will require the approval of the Engineer.

The contractor is advised that a construction speed zone will be applicable for this project. The construction speed zone shall be limited to the actual work areas under construction.

Maintain adequate drainage throughout the limits of the project during all construction phases.

Provide on a weekly basis a list of equipment, including idle equipment, utilized on the project that week.

Item 5 Control of the Work

Station the project prior to commencing work. Mark the stations every 100 feet. Maintain stationing throughout the duration of the project. Remove the station markings at the completion of the project. Consider this work to be subsidiary to the various bid items of the contract.

Verify all horizontal and vertical control, approach grades to structures and driveways prior to beginning work. Notify the Engineer immediately if discrepancies are discovered.

Furnish, to the Engineer, a list of the final centerline elevations based on the alignment stationing shown in the plans.

Item 6 Control of Materials

Mixing of materials, storing of materials, storing of equipment, or repairing of equipment on top of concrete pavement or bridge decks will not be permitted unless specifically authorized by the Engineer. Permission will be granted if, in the opinion of the Engineer, storage of the materials

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will not cause damage or discoloration. Any damage resulting from this work will be corrected at the Contractor's expense.

Item 7 Legal Relations and Responsibilities

The Contractor Force Account "Safety Contingency" That has been established for this project is intended to be utilized for work zone enhancements, to improve the effectiveness of the traffic control plan, that could not be foreseen in the project planning and design stage. These enhancements will be mutually agreed upon by the engineer and the contractor's responsible person based on weekly or more frequent traffic management reviews on the project. The engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

Furnish all materials, labor and incidentals required to provide for traffic across the highway and for temporary ingress and egress to private property in accordance with article 7.2.4 of the standard specifications at no additional cost to the state. Maintain ingress and egress to the adjacent property at all times. Consider this work to be subsidiary to the various bid items of the contract.

The Contractor shall be completely responsible for the immediate removal of any material that gets upon any vehicle as a result of their operation.

State contract mowers will mow the right of way during the growing season. The Contractor will be notified by the Engineer one week in advance of the anticipated time when mowers will be in the limits of the project. Clean the right of way to such a condition that allows the mowing contractors to safely mow.

Personal vehicles of the contractor's employees shall not be parked within the right-of-way at any time including any section closed to public traffic, unless the vehicle is being utilized for construction procedures. However, the Contractor's employees may park on the right-of-way at sites where the contractor has their office, equipment and materials storage yard.

The Contractor shall be familiar with the right-of-way map and the location of all the right-of-way monumentation. Care shall be taken by the Contractor and its subcontractors to protect and avoid disturbance to the right-of-way monumentation. Any monument disturbed by the Contractor will be repaired and/or replaced to the satisfaction of the Engineer. This work will be corrected at the Contractor's expense.

Place all equipment and vehicles not in operation and materials not being used a minimum of 30 feet from the travel way unless protected behind positive barrier.

Item 8 Prosecution and Progress

Loads wider than 8'6" will not be allowed through the only open 11' lane in Phase 1 and will be required to use an alternate route. 7 days prior to Phase 1 start of work, set up the detour for wide loads as shown in plans.

Working days will be charged during all observed curing times, even if no other work is being performed.

Compute and charge working days in accordance with Article 8.3.1.1 Five-Day Workweek.

Submit monthly progress schedules in accordance with 8.5.5.2.3. Failure to supply updated project schedule may result in the Engineer withholding progress (monthly) payments.

The road-user cost liquidated damages for Milestone 1 is **\$900.00** per day.

Substantially complete Milestone 1 in **119** working days.

The time charges for Milestone 1 will begin once one-lane two-way traffic control has been initiated.

The time charges for Milestone 1 will end once two-way two-lane traffic control has been restored.

The daily incentive rate for substantial completion of Milestone 1 is **\$900.00**.

The maximum number of working days for computing the Milestone 1 incentive credit is **15** days.

Adjoining projects may be in progress during the construction of a portion of this project. Plan and prosecute the sequence of construction and the traffic control plan with adjacent construction projects, if applicable. Manage construction of all phases to minimize disruption to traffic.

Notify the Engineer 72 hours in advance of any traffic control changes. Any other modification to the roadway that may adversely affect the mobility of oversized/overweight trucks shall require 5 business day advance written notice to the Engineer.

Temporary lane closures during Phase 1 will only be allowed during non-peak hours unless otherwise approved in advance by the Engineer. Only lane closures of 10 minutes or less will be considered for peak hours only with approval by the Engineer. Only lane closures of 30 minutes or less will be considered for non-peak hours only with approval by the Engineer. Non-peak hours will be nighttime hours and will be defined as 8:00 PM until 7:00 AM.

Temporary lane closures during Phases 2 and 3 will be allowed during peak and non-peak hours with advanced approval from the Engineer. The contractor must maintain at least one lane of traffic open at all times during Phases 2 and 3.

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No work will be allowed on **any** Friday night through Sunday night.

Night work will be allowed Monday night through Thursday night **except** as noted below

- Alligator Hunt – At Martin Dies Jr State Park. Usually occurs the last week of August or the first week of September. TxDOT will provide the contractor dates of the hunt each year at least 30 days prior to the hunt.
- Labor Day Weekend - each Labor Day weekend during construction; work will end by 5:00 pm the Friday before Labor Day and no night work will occur at any time through (and including) the Monday holiday. Work may resume at 8:00 a.m. the following Tuesday.
- Columbus Day Weekend - work will end by 5:00 p.m. the Friday before Columbus Day and no night work will occur at any time through (and including) the Monday holiday. Work may resume at 8:00 a.m. the following Tuesday.
- Haunted Hike– at Martin Dies Jr State Park. Dates for the Haunted Hike will be provided 30 days prior to the hike. Work will cease by 5:00 p.m. the day of the Haunted Hike. (This year’s hike is set for October 24th 2015)
- Thanksgiving Week – no night work the Sunday before Thanksgiving through and including the Sunday after Thanksgiving. Work may resume at 8:00 a.m. the Monday after Thanksgiving.

No lane closures will be allowed at any time during the following unless approved in writing by the Engineer: on Good Friday until midnight Easter Sunday, after 7:00 AM Tuesday before Thanksgiving Day through midnight Sunday after Thanksgiving, after 7:00 AM December 23 through midnight January 2, the Saturday before Labor Day through Labor Day, the Saturday before Memorial Day through Memorial Day, the week of local spring break as determined by Engineer.

Placement of traffic control devices for night operations shall not commence until after the start time and all devices shall be removed from the roadway prior to the finish time. For all travel lane closures, provide information regarding dates, times, typical work hours, type of closure, reason for closure, and expected project duration to the Jasper Area Office. This information shall be provided 48 hours in advance of the closure to the Jasper Area Office. If the closure is approved, the Jasper Area Office will forward the information to the Public Information Officer for the Beaumont District.

One lane in each direction of each travel way is to remain open at all times. Placement of traffic control devices for night or weekend operations shall not commence until after the start time and all devices shall be removed from the roadway prior to the finish time. For all travel lanes, ramps, or connector closures, provide information regarding dates, times, typical work hours, type of closure, reason for closure, and expected project duration to the Beaumont Area Office. This information shall be provided 72 hours in advance of the closure to the Jasper Area Office.

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If approved, the Jasper Area Office will forward the information to the Public Information Officer for the Beaumont District.

Work may be performed on Saturday when approved by the Engineer.

The Contractor will be expected to schedule this work so that the base placement operations will follow the subgrade work as closely as practical in order to reduce the hazard to the traveling public and prevent undue delay from wet weather.

Supplemental lighting in addition to lighting on equipment and work vehicles will be required to insure adequate lighting for workers safety and inspection. All operations including planing and ACP placement must be adequately lighted using supplemental lighting. All supplemental lights are subject to the approval of the Engineer. Supplemental lighting shall be added to the milling machine, asphalt distributor, aggregate spreader, rollers and laydown machine unless otherwise approved by the Engineer. This is considered subsidiary to the various bid Items of the contract.

Pavement drop-offs greater than two (2) inches must be sloped back to a minimum of 3:1 slopes at the end of each day's operations, see "Worksheet for Edge Condition Treatment Types" sheet for additional edge drop-off requirements.

Complete all work at one location before proceeding to a new location unless otherwise approved by the Engineer. If additional locations are approved, erect barricades only for those additional locations. Maintain barricades at each of these locations until all work at the site is completed and accepted by the Engineer.

The Engineer will suspend time charges after completion of all work and removal of the barricades. The Department will grant final acceptance when all performance periods are complete.

Accrue Contract time charges through the Contractor's completion of the final punch list. Time will not be suspended until all work is completed.

Submit a work schedule to the Engineer at the preconstruction meeting indicating completion dates for each location, and the number of crews required for the completion of the contract within the contract time period. If at any time during the contract the work progress is behind the initial schedule, submit documentation indicating how the project will be accelerated to ensure project completion in the remaining contract time.

Provide a sequence of work with an estimated project schedule to the Engineer at the preconstruction meeting. By noon of each Wednesday, provide the Engineer a written outline of the proposed work schedule for the following week. This outline will also list the times and places for any proposed traffic control changes.

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Monthly critical path method (CPM) updates are a very important aspect of managing the progress of this project. CPM planning schedule software will be required on this project. An updated electronic schedule shall be provided to the Engineer by the tenth day of each month. The Engineer may withhold the monthly estimate if the schedule update has not been received.

For this project, the critical path method schedule shall be created and maintained in accordance with 8.5.2.

Work will not be permitted when impending bad weather or low temperatures may impair the quality of work.

The construction sequence may be modified as directed and approved by the Engineer.

Wait three hours after applying prime to base before using blotter or allowing traffic on base unless approved otherwise by the Engineer.

3:1 maximum edge tapers as shown on the typical section before opening lanes to traffic. Provide a 100 foot minimum temporary longitudinal grade taper at the end of the section being reworked prior to opening the lanes to traffic.

Complete work on one side of one structure before beginning work on the other side of the structure or before beginning work on another structure, unless approved otherwise by the Engineer.

Where road closures or detours around structures are necessary to accomplish proposed work, the removal of existing structures and/or cutting of existing pavement will not be permitted until all pre-cast members for the proposed structure have been cast, tested and approved for use.

Item 100 Preparing Right of Way

Chipping and disposal on right of way of smaller debris will be allowed. Depth of the chipped material shall not exceed 2 inches. Direct discharge of chipped material towards the right of way line in non-residential areas only. Chipping will not be allowed in front of residences.

Heavy equipment rutting shall be graded to the existing terrain profile. Consider this work to be subsidiary to the various bid items of the contract.

Do not burn trash, debris, etc. at any time.

Item 104 Removing Concrete

Saw the longitudinal break-back line when removing the existing concrete pavement for stage construction. Saw depth to be approximately two (2) inches. The saw depth is to increase, if the

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edge of the existing concrete pavement to remain in place is not reasonably straight or as directed by the Engineer. Consider this work to be subsidiary to the various bid items of the contract.

Limits of riprap and/or mow strip removal will be as directed by the Engineer.

Item 110 Excavation

Removal of existing rock riprap is paid for as Excavation (Special). Any existing rock riprap that is deemed to be reusable by the Engineer and meets the specifications for Item 432, will need to be decontaminated by adhering to the TPWD Clean/Drain/Dry Procedures as outlined in the EPIC notes.

Excavated material adhering to density control Embankment Type C requirements may be used for embankment construction as approved by the Engineer.

Any earthwork cross-sections, computer printouts, data files and any other information provided is for non-construction purposes only and it is the responsibility of the prospective bidder to validate the data with the appropriate plans, specifications and estimates for the projects. Contact the Area Office for information on availability.

Do not windrow or stockpile material next to or along the roadway. Remove excess material from the project daily.

Transition the ditch grades and channel bottom widths at structure locations. Use only approved channel excavation in the embankment.

Item 132 Embankment

Compaction method specified as density controlled compaction.

Underwater placement of embankment material is not permitted.

It is the Contractor's responsibility to advise the Engineer of the location of the material source sufficiently in advance to avoid delay due to testing requirements.

Any earthwork cross-sections, computer printouts, data files and any other information provided is for non-construction purposes only and it is the responsibility of the prospective bidder to validate the data with the appropriate plans, specifications and estimates for the projects. Contact the Area Office for information on availability.

Embankment Type C will conform to the following specification requirements:

1. Liquid Limit – 40 maximum

2. Plasticity Index – 25 maximum, 8 minimum
3. A cohesionless sand will not be permitted

All slopes requiring embankment will be tracked immediately upon final grading to prevent erosion. Tracking consists of operating a tracked vehicle or equipment up and down the slopes leaving track marks perpendicular to the direction of the slope. Tracking slopes to prevent erosion will not be measured or paid for directly, but will be subsidiary to pertinent items.

Item 160 Topsoil

All slopes requiring topsoil will be tracked immediately upon final grading to prevent erosion. Tracking consists of operating a tracked vehicle or equipment up and down the slopes leaving track marks perpendicular to the direction of the slope. Tracking slopes to prevent erosion will not be measured or paid for directly, but will be subsidiary to pertinent items.

Place Topsoil in accordance with the sequence of construction, in phases, as partial completion of the roadway is obtained.

Item 164 Seeding for Erosion Control

Final grading and stabilization (seeding) shall be achieved as soon as possible and not scheduled only for the end of the project. Final grading and stabilization should be initiated as the overall work progresses.

Multiple mobilizations of the seeding crews will be expected to comply with the Construction General Permit of the Texas Pollution Elimination Discharge System requirements for re-vegetating disturbed soils.

Eliminate seeding in areas of natural growth determined by the Engineer to have sufficient cover.

Item 166 Fertilizer

Fertilize all the seeded or sodded areas of project.

Furnish and apply fertilizer with analysis of 16-20-0 at a rate of 625 bulk pounds per acre.

Item 168 Vegetative Watering

Equip water trucks with sprinkler systems capable of covering the entire area to be seeded or sodded from the roadway.

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Water all newly placed sod or seeded areas the same day of installation. Thereafter, maintain the sod or seeded areas in a well-watered condition and at no time allow the areas to dry to the condition that water stress is evident.

Mechanical watering may not be required during periods of adequate moisture as determined by the Engineer.

Furnish and apply water at a rate of 2 gallons per square yard.

Comply with stabilization requirements for 70% grass coverage; uniform vegetative coverage is required. During this period, meter and operate water equipment under pumping pressure capable of delivering the required quantities of water necessary. Each cycle shall be executed every two (2) days, unless directed otherwise by the Engineer.

Upon request of the Engineer, provide a log book showing daily water usage and receipts of water applied, in addition to metering the water equipment.

Item 247 Flexible Base

Use Type D Grade 1 & 2 flexible base.

The minimum plasticity index for this material shall be 3.

Use of RAP is allowed

Do not damage existing or proposed structures during base operations.

Construct flexible base at a maximum of 6 inch lifts.

Transition the thickness of the proposed base from the existing grade to the proposed grade at each end of the project or days production over a minimum of three hundred (300) feet length.

Item 302 Aggregates for Surface Treatments

The aggregate for the surface treatment shall be surface dry before application unless otherwise directed by the Engineer.

Aggregate stockpile locations shall be approved prior to stockpiling.

When directed, flush aggregate stockpiled for surface treatment with water to remove excessive dust particles, in such sequence that will permit free water to drain from the stockpiled aggregate prior to surfacing operations. This work will be considered subsidiary to various bid items.

Item 316 Seal Coat

Furnish medium pneumatic-tire rollers in accordance with Item 210, "Rolling."

Remove all vegetation from pavement edges, intersections, curbs and gutters and driveways prior to planning or ACP operations. This work will not be paid for directly but will be subsidiary to the various bid items.

The open season for the application of asphalt is May 1st through September 15th unless otherwise directed by the Engineer in writing.

Seal intersections and driveways before sealing the main lanes. Seal all existing roadway surfaces, including extra widths, crossovers, roadside parks, picnic areas, mailbox turnouts, public road intersections, and public drives, within the limits of each project. Do not seal intersections or driveways surfaced with ACP or constructed of concrete.

Sweep all roadways with a powered rotary broom prior to placement of the surface treatment to remove all loose or excess material or debris. After rolling, sweep as soon as aggregate has sufficiently bonded to remove excess. Use a vacuum broom on all roadway sections having curb and gutter and all roadway sections within the city limits of any city.

Cure the surface treatment as directed prior to placement of the overlay.

Item 354 Planing and Texturing Pavement

Where the underlying flexible base is exposed during the planing operation, prime this area with an asphalt at a rate as directed and patch with an approved HMA material, at the end of the day's operation in which it occurs. These items of work will not be paid for directly but will be subsidiary to Item 354.

Complete planing operations in adjacent lanes and shoulders to the same point at the end of each day.

Cut the existing shoulder pavement to allow for drainage of water away from travel lanes which have been planed. This work will be subsidiary to various bid items.

Retain ownership of planed materials.

Schedule the work so that a seal coat or HMA is placed no more than two weeks after milling has been performed on any pavement surface, unless otherwise approved by the Engineer. The Engineer may require the seal coat to be placed sooner than two weeks in cases when base materials are exposed or when the pavement structure is showing signs of distress.

Item 403 Temporary Special Shoring

Submit design calculations and detail sheets bearing the seal of a licensed professional Engineer for all temporary shoring. Do not begin work until the design calculations and detail sheets have been approved. The contractor will be responsible for the complete design, fabrication and removal of the temporary shoring.

Item 409 Prestressed Concrete Piling

Pile driving will not be permitted at night between April 1 and August 31. Temporary night time closures will be permitted for pile delivery (loading and unloading) and for pouring caps.

A maximum of 30 minutes will be allowed for temporary lane closures for pile delivery.

Item 427 Surface Finishes for Concrete

Provide the default ordinary surface finish for all concrete elements.

Item 496 Removing Structures

Remove existing bents flush with the existing bottom of lake in a manner that avoids dropping debris into lake and minimizes turbidity.

Submit a bridge demolition plan for review and approval.

Item 502 Barricades, Signs, and Traffic Handling

Construct all work zone signs, sign supports, and barricades from material other than wood unless approved otherwise by the Engineer. Metal posts, if used, are to be galvanized. Aluminum signs, if used, shall meet the following minimum thickness requirements:

<u>Square Feet</u>	<u>Minimum Thickness</u>
Less than 7.5	0.080 inches
7.5 to 15	0.100 inches
Greater than 15	0.125 inches

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Adjoining projects may be in progress during the construction of this project. Coordinate and manage the sequence of construction and the traffic control plan with adjoining construction projects, if applicable, to minimize disruption to traffic in all phases of the work.

Restrict work to one side of the roadway at a time.

Remove all traffic control devices from the right of way when they are not in use. Devices scheduled to be used within 3 days may be placed along the shoulder of the roadway or along the right of way when not in use, or stored in other approved areas on the project. Cover any construction signs that are not in effect and are installed in a fashion that will not allow them to be removed from the right of way easily.

Ensure the Contractor's Responsible Person (CRP) for Barricades, Signs and Traffic Handling is available at all times and able to receive instructions from the Engineer or authorized Department representative. The CRP shall be a person that is usually at the project site during normal working hours.

The Contractor Responsible Person (CRP) for Work Zone Traffic Controls shall inspect and insure any deficiencies are corrected each and every day throughout the duration of this contract.

Carefully monitor the work site to ensure that all delineation devices, signs, and pavement markings are clean, upright, in good repair, properly located, operating effectively, and in an overall highly visible condition. Problems brought to the Contractor's attention shall be corrected as soon as possible and by no later than the next day. This shall include corrections necessary due to acts of vandalism or accidents.

Notify the Engineer prior to placing any materials or equipment on the right of way. Locate equipment, stockpiles or other materials not in use as far as possible from the driving lanes and in no case closer than 30 feet unless otherwise authorized. Any equipment, stockpiles, or materials placed within 30 feet of the driving lane must have adequate signs, barricades or other warning devices as approved. As a minimum place an 8 feet wide TY III Barricade on the approach side of each site that is within 30 feet of the driving lane. Barricade the site similarly on the departure side if the location is within 30 feet of the opposing traffic lane.

Written approval of the Engineer will be required for all road and side street closures. A request for closure must be made 72 hours in advance. Special times and procedures will also be required subject to the Engineer's direction.

Follow the phasing sequence provided unless otherwise agreed upon by the Area Engineer and the Project Manager. A meeting between the Contractor and Engineer to discuss upcoming construction phasing and traffic switches is required 14 days prior to the phase change. Items to be discussed at this meeting include temporary signing, traffic control, pavement markings, the processes necessary for the phase change and subcontractor scheduling. All changes to the phasing sequence will be submitted to the Area Engineer for consideration and approval at least

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72 hours prior to any changes being made. Changes to the original sequence will contain a layout showing construction phasing, all signs, and striping. The proposed sequence of work shall minimize the inconvenience to the traveling public. Supporting documentation will be made available to the Engineer upon request.

Install adequate signs and barricades, as approved by the Engineer, prior to opening any roadway section to traffic. The Engineer may direct the contractor to adjust or furnish additional signs, barricades, and channelizing devices as required to maintain traffic and motorist safety during construction. Any such traffic control devices shall be considered subsidiary to Item 502. Speed zone signing shall be considered subsidiary to Item 502.

One lane traffic control will require a pilot car unless a temporary traffic signal is being used.

Item 506 Temporary Erosion, Sedimentation, and Environmental Controls

The Contractor is prohibited from removing grass vegetation throughout the entire project limits and then ceasing construction for long periods, typically over three weeks. The Contractor schedule shall be developed based on staged vegetation removal, limiting disturbed soil to no more than 25 percent at one time, unless otherwise approved by the Engineer. Should the Contractor not be able to adequately control sediment and erosion for areas disturbed, TxDOT will substantially reduce the size of areas that the Contractor may disturb soil. Should the project be evaluated to have sediment control problems as a result of the Contractor disturbing excessive amounts of soil, the Contractor shall be required to immediately re-vegetate (seed and water) those disturbed areas at no cost to TxDOT.

When specified by the Engineer, the Contractor shall implement storm water pollution prevention plan measures using the Items listed below as specified in Item 506 and as directed by the Engineer:

Temporary Sediment Control Fence

Rock Filter Dams and

Construction Exits

Freshwater Mussel BMPs

- When work is in the water, survey project footprints for state listed species where appropriate habitat exists.
- When work is in the water and mussels are discovered during surveys, relocate state listed and SGCN mussels under TPWD permit and implement Water Quality BMPs

Water Quality BMPs

- Once construction is complete and disturbed areas have been revegetated, remove silt fence and accumulated sediment to reduce wildlife barriers and hazards.
- Minimize the use of equipment in streams and riparian areas during construction. When possible, equipment access should be from banks, bridge decks, or barges.
- When temporary stream crossings are unavoidable, remove stream crossings once they are longer needed and stabilize banks and soils around the crossing.
- Wet-Bottomed detention ponds area recommended to benefit wildlife and downstream water quality. Consider potential wildlife-vehicle interactions when siting detention ponds.
- Rubbish found near bridges on TxDOT ROW should be removed and disposed of properly to minimize the risk of pollution. Rubbish does not include brush piles or snags.

The Contractor shall designate a clean out area for concrete trucks. No other area will be allowed without approval of the Engineer.

Item 512 Portable Traffic Barrier

Unless otherwise noted in the plans or directed by the Engineer, all CSB used for TCP shall have drainage slots.

Barrier from existing stockpiles that substantially meet the requirements of standards sheets may be used on this project.

Pin barriers, as specified on the Traffic Control Plan sheets, shall be accomplished using a rotary hammer drill. Percussion (star drill) type drilling equipment shall not be used.

When PCTB is removed, obstruction from removing the pin shall be repaired by the contractor as approved by the Engineer. This work shall be considered subsidiary to Item 512.

Item 538 Right of Way Markers

Right of way markers must be established by a registered professional land surveyor.

Item 540 Metal Beam Guard Fence

Provide Type II metal beam rail elements.

Provide round timber posts.

Fully install MBGF before opening up to traffic.

Item 542 Removing Metal Beam Guard Fence

Salvage all functional steel guardrail elements, including steel posts, either to reuse in the current project or to be retained by TxDOT for use in future projects.

Accept ownership of removed metal beam guard fence and terminal anchors.

In cases where existing landscape shrubs located adjacent to the metal beam guard fence conflict with construction, remove those shrubs necessary to facilitate construction as directed by the Engineer. This work will not be paid for directly, but shall be considered subsidiary to various bid items.

Item 545 Crash Cushion Attenuators

Provide attenuators for temporary installations as per crash cushion summary sheet, TCP layouts, and in accordance with standards.

The Contractor shall furnish all anchoring hardware.

Item 644 Small Roadside Sign Assemblies

Erect Reference Marker signs at the same station as they were located prior to removal.

Remove and stockpile all existing signs and sign posts within the project that are not to remain, at a stockpile location designated by the Engineer. Remove the signs from the posts. Replace any signs or post damaged by the Contractor at his/her entire expense. Consider this work to be subsidiary to the various bid items of the contract.

Item 658 Delineator and Object Marker Assemblies

Use Type A reflector unit (sheeting) on delineator assemblies attached to concrete barrier.

Mount reflector at a height of 4.0' to 4.5' from the bottom of the continuous concrete barrier. If this cannot be achieved mount reflector 6" from the top of the barrier to the bottom of the reflector.

Mount reflectors on a steel or concrete bridge rail, where the bridge is greater than 200' in length, at a height of 6" from the top of the rail to the bottom of the reflector.

Use bolt-on attachment for delineator assemblies attached to guard fence.

Install delineators as directed by the Engineer. This may require installation of delineators on portions of guardrail and bridge rail that is not being repaired in order to maintain consistency with adjacent sections.

Item 662 Work Zone Pavement Markings

Place work zone pavement markings within 7 calendar days after elimination of the existing striping and placement of short term striping. If it is not possible to place the standard pavement markings due to inclement weather, maintain the short-term pavement markings in accordance with Item 662, "Work Zone Pavement Markings" until placement of the standard markings is possible. Maintenance of the short-term pavement markings will not be paid for directly but will be considered subsidiary to Item 662.

Item 666 Retroreflectorized Pavement Markings

Furnish Type II drop-on glass beads.

Sealer will be required for concrete surfaces.

Item 677 Eliminating Existing Pavement Markings and Markers

Any striping that is not to overlaid should be removed by water blasting.

Item 681 Temporary Traffic Signals

Fully actuated temporary traffic signal shall be provided with a countdown timer integrated. Timing shall be minimum delay.

An additional temporary traffic signal shall be located on site in case of malfunction.

Provide backup power for each location at all times.

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PROJECT : BR 1502(228)
HIGHWAY : US 190
COUNTY : JASPER

TEXAS DEPARTMENT OF TRANSPORTATION

GOVERNING SPECIFICATIONS AND SPECIAL PROVISIONS

ALL SPECIFICATIONS AND SPECIAL PROVISIONS APPLICABLE TO THIS PROJECT ARE IDENTIFIED AS FOLLOWS:

STANDARD SPECIFICATIONS: ADOPTED BY THE TEXAS DEPARTMENT OF
----- TRANSPORTATION NOVEMBER 1, 2014.
STANDARD SPECIFICATIONS ARE INCORPORATED
INTO THE CONTRACT BY REFERENCE.

ITEMS 1 TO 9 INCL., GENERAL REQUIREMENTS AND COVENANTS
ITEM 100 PREPARING RIGHT OF WAY (100)
ITEM 104 REMOVING CONCRETE
ITEM 105 REMOVING TREATED AND UNTREATED BASE AND ASPHALT PAVEMENT
ITEM 110 EXCAVATION (132)
ITEM 132 EMBANKMENT (100) (160) (204) (210) (216) (260) (400)
ITEM 160 TOPSOIL (168)
ITEM 164 SEEDING FOR EROSION CONTROL (162) (166) (168)
ITEM 168 VEGETATIVE WATERING
ITEM 247 FLEXIBLE BASE (105) (204) (210) (216) (520)
ITEM 310 PRIME COAT (300) (316)
ITEM 316 SEAL COAT (210) (300) (302)
ITEM 340 DENSE-GRADED HOT-MIX ASPHALT (SMALL QUANTITY) (300) (301)
(320) (520) (585)
ITEM 341 DENSE-GRADED HOT-MIX ASPHALT (300) (301) (320) (520) (585)
ITEM 354 PLANING AND TEXTURING PAVEMENT
ITEM 400 EXCAVATION AND BACKFILL FOR STRUCTURES (110) (132) (401)
(402) (403) (416) (420) (421) (423)
ITEM 403 TEMPORARY SPECIAL SHORING (410) (411) (423)
ITEM 405 FOUNDATION LOAD TEST (404) (416)
ITEM 409 PRESTRESSED CONCRETE PILING (404) (405) (420) (421) (424)
(425) (440)
ITEM 420 CONCRETE SUBSTRUCTURES (400) (404) (421) (422) (426) (427)
(440) (441) (448)
ITEM 422 CONCRETE SUPERSTRUCTURES (420) (421) (424) (438) (440) (448)
(454) (782)
ITEM 425 PRECAST PRESTRESSED CONCRETE STRUCTURAL MEMBERS (409)
(420) (421) (424) (426) (427) (434) (440) (442) (445)
ITEM 432 RIPRAP (247) (420) (421) (431) (440)
ITEM 450 RAILING (420) (421) (422) (424) (440) (441) (442) (445) (446)

(448)

ITEM 454 BRIDGE EXPANSION JOINTS (429) (442) (785)

ITEM 496 REMOVING STRUCTURES

ITEM 500 MOBILIZATION

ITEM 502 BARRICADES, SIGNS, AND TRAFFIC HANDLING

ITEM 506 TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS (161) (432) (556)

ITEM 512 PORTABLE CONCRETE TRAFFIC BARRIER (420) (421) (424) (440) (442)

ITEM 530 INTERSECTIONS, DRIVEWAYS, AND TURNOUTS (247) (260) (263) (275) (276) (292) (316) (330) (334) (340) (360) (421) (440)

ITEM 538 RIGHT OF WAY MARKERS (420) (421) (440)

ITEM 540 METAL BEAM GUARD FENCE (421) (441) (445) (529)

ITEM 542 REMOVING METAL BEAM GUARD FENCE

ITEM 544 GUARDRAIL END TREATMENTS

ITEM 545 CRASH CUSHION ATTENUATORS (421)

ITEM 644 SMALL ROADSIDE SIGN ASSEMBLIES (421) (440) (441) (442) (445) (636) (643) (656)

ITEM 647 LARGE ROADSIDE SIGN SUPPORTS AND ASSEMBLIES (416) (421) (440) (441) (442) (445) (636)

ITEM 658 DELINEATOR AND OBJECT MARKER ASSEMBLIES (445)

ITEM 662 WORK ZONE PAVEMENT MARKINGS (666) (668) (672) (677)

ITEM 666 RETROREFLECTORIZED PAVEMENT MARKINGS (316) (318) (502) (662) (677) (678)

ITEM 668 PREFABRICATED PAVEMENT MARKINGS (678)

ITEM 672 RAISED PAVEMENT MARKERS (677) (678)

ITEM 677 ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS (300) (302) (316)

ITEM 681 TEMPORARY TRAFFIC SIGNALS (416) (610) (618) (620) (621) (622) (624) (625) (627) (628) (636) (644) (656) (680) (682) (684) (686) (687) (688) (690)

SPECIAL PROVISIONS: SPECIAL PROVISIONS WILL GOVERN AND TAKE
 ----- PRECEDENCE OVER THE SPECIFICATIONS ENUMERATED
 HEREON WHEREVER IN CONFLICT THEREWITH.

REQUIRED CONTRACT PROVISIONS, FEDERAL-AID CONSTRUCTION CONTRACTS
 (FORM FHWA 1273, MAY, 2012)

WAGE RATES

SPECIAL PROVISION "SCHEDULE OF LIQUIDATED DAMAGES" (000---001)

SPECIAL PROVISION "NONDISCRIMINATION" (000---002)

SPECIAL PROVISION "CERTIFICATION OF NONDISCRIMINATION IN EMPLOYMENT"
 (000---003)

SPECIAL PROVISION "NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO
 ENSURE EQUAL EMPLOYMENT OPPORTUNITY" (000---004)

SPECIAL PROVISION "STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY
 CONSTRUCTION CONTRACT SPECIFICATIONS" (000---005)

SPECIAL PROVISION "ON-THE-JOB TRAINING PROGRAM" (000---006)

SPECIAL PROVISION "DISADVANTAGED BUSINESS ENTERPRISE IN FEDERAL AID
 CONTRACTS" (000---007)

SPECIAL PROVISION "IMPORTANT NOTICE TO CONTRACTORS" (000---010)

SPECIAL PROVISION TO ITEM 6 (006---001)

SPECIAL PROVISION TO ITEM 7 (007---001)
SPECIAL PROVISION TO ITEM 8 (008---003)
SPECIAL PROVISION TO ITEM 506 (506---001)

SPECIAL SPECIFICATIONS:

ITEM 4027 TEMPORARY CONSTRUCTION ACCESS
ITEM 6001 PORTABLE CHANGEABLE MESSAGE SIGN

GENERAL: THE ABOVE-LISTED SPECIFICATION ITEMS ARE THOSE UNDER WHICH
----- PAYMENT IS TO BE MADE. THESE, TOGETHER WITH SUCH OTHER
PERTINENT ITEMS, IF ANY, AS MAY BE REFERRED TO IN THE ABOVE-
LISTED SPECIFICATION ITEMS, AND INCLUDING THE SPECIAL
PROVISIONS LISTED ABOVE, CONSTITUTE THE COMPLETE SPECIFI-
CATIONS FOR THIS PROJECT.

Special Specification 4027

Temporary Construction Access



1. DESCRIPTION

This item governs for the design, construction, mobilization, operation, and removal of all temporary structures necessary to remove existing structures and erect new permanent structures for the bridge project including materials, equipment, and personnel. This Item also includes all efforts associated with construction access within or adjacent to the existing and proposed bridge.

2. CONSTRUCTION

Adhere to the access limits and construction methods described in the project environmental permits, issues and commitments documentation, as well as project traffic control requirements. Provide a design of the temporary structures signed and sealed by an Engineer licensed in the State of Texas, including design calculations demonstrating the adequacy of these structures for the range of load conditions. Submit specific construction and removal methods in detail for review by the Engineer and all applicable regulatory agencies.

3. MEASUREMENT

The work as provided for by this specification will be measured by the lump sum.

4. PAYMENT

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Temp Construction Access". This price is full compensation for construction access and removal and for all labor, materials, tools, equipment and incidentals necessary to complete the work.

Partial payments of the "Lump Sum" bid for "Construction Access" will be established by the Engineer and based upon estimated percentages of construction access performed by the Contractor.

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