

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 4/30/2014

Control	0914-33-035
Project	BR 2005(711)
Highway	CR
County	HAYS

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 2005(711)

CONTROL: 0914-33-035

COUNTY: HAYS

LETTING: 05/07/2014

REFERENCE NO: 0429

PROPOSAL ADDENDUMS

- PROPOSAL COVER
- BID INSERTS (SH. NO.:
- GENERAL NOTES (SH. NO.: A thru S

- SPEC LIST (SH. NO.:
- SPECIAL PROVISIONS:
- ADDED:

DELETED:

- SPECIAL SPECIFICATIONS:
- ADDED:

DELETED:

X OTHER: Plans

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

GENERAL NOTES

Added notes under SW3P/WPAP section.

Added notes under Bodies of Water section.

Deleted note under Item 7 concerning parking equipment and added note for washing equipment.

Added notes under headings for Item 416 and 416 & 420.

Added note for Item 459.

Replaced notes under Item 496.

PLANS

Title Sheet - Added sheet 2I to Index of Sheets.

Sh 2, 2A-2H - Same as general notes changes.

Sh 2I - Added due to additional notes.

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

(CONTINUED)

GENERAL NOTES:

Basis of Estimate

Item	Description	**Rate	Basis	Quantity
160	Topsoil	9 SF/ SY	SY	887 SY
164	Seed for Erosion Cont	9 SF/SY	SY	887 SY
168	Vegetative Watering (Item 164)(Perm)	20 GAL/SY	SY	17.8 MG
247	FL BS (CMP IN PLC) (TY A GR 5)	27 CF/CY	CF	412 CY
310	Prime Coat(MC-30 or AE-P)	0.20 GAL/SY	SY	240GAL
3268	Dense-Graded Hot-Mix Asphalt (QC/QA) TY C_ SAC B_ PG64-22 _ TY C PG64-22	110 LB/SY/IN 110LB/SY/IN	SY SY	122 TON 126 TON

** For Informational Purposes Only

GENERAL

References to manufacturer’s trade name or catalog numbers are for the purpose of identification only. Similar materials from other manufacturers are permitted if they are of equal quality, comply with the specifications for this project, and are approved.

Do not place surface treatments or pavement when in the Engineer’s professional judgment, the apparent general weather conditions are unsuitable for Overlay operations.

Remove and replace, at the Contractor's expense, and as directed, all defective work, which was caused by the Contractor's workforce, materials, or equipment.

Perform work during good weather unless otherwise directed. If work is performed at Contractor’s option, when inclement weather is impending, and the work is damaged by subsequent precipitation, the Contractor is responsible for all costs associated with replacing the work, if required.

Accrue contract time charges through the Contractor’s completion of the final punchlist.

Meet weekly with the Engineer to notify him/her of planned work for the upcoming week. Provide a three-week “look ahead,” as well as all work performed over the past week.

Blade the side slopes to remove all grass from the area of construction before placing flexible base on that portion of the roadway to be widened, leveled-up, seal coated/surfaced treated, or Hot Mix Asphaltic Concrete Pavement (HMACP) overlaid. Blade the sod back onto the side slopes after the proposed items of work have been completed. Consider subsidiary to pertinent Items.

Project Number: BR 2005 (711)

County: HAYS

Highway: CR 266

Sheet:

Control: 0914-33-035

Equip all construction equipment used in roadway work with a permanently mounted 360° revolving or strobe warning light with amber lens. Light will have a minimum lens height and diameter of 5 inches and mounting height of not less than 6 feet above the roadway surface and be visible from all sides. Attach at each side of the rear end of the construction equipment an approved orange warning flag mounted not less than 6 feet above the roadway surface.

Overhead and underground utilities may exist in the vicinity of the project. The exact location of underground utilities is not known.

If working near power lines, comply with the appropriate sections of Local Legal Requirements, Texas State Law, and Federal Regulations relating to the type of work involved.

In the event of unforeseen utility adjustment, the Contractor will prosecute their work in such a manner and sequence as to facilitate the adjustments to be made.

Be aware that an Intelligent Transportation Systems (ITS) Infrastructure may exist within the limits of this project and that the system must remain operational throughout construction. The exact location of ITS Infrastructure is not known. Contact the TxDOT Area Engineer's or Inspection Team's Office for the location(s) at least 48 hours before commencing any work that might affect present ITS Infrastructure. Use caution if working in these areas to avoid damaging or interfering with existing facilities. Repair any damage to this system within 8 hours of occurrence at no cost to the Department. In the event of system damage, notify TxDOT/CTECC at (512) 974-0883 within one hour of occurrence. Failure of the Contractor to repair damage to any infrastructure that conveys any corridor information to TxDOT/CTECC will result in the Contractor being billed for the full cost of emergency repairs.

Superelevate all curves to conform to the slope(s) of the existing curves, as directed. Consider subsidiary to the pertinent Items.

Match existing cross slopes, as directed. Consider subsidiary to the pertinent Items.

Provide a smooth, clean sawcut along the existing asphalt pavement structure, as directed. Consider subsidiary to the pertinent Items.

Remove all construction debris and surplus material generated by the construction work within the project limits. Perform this work as directed. Consider subsidiary to the pertinent Items.

Trim vegetation around signs and other obstructions. Consider subsidiary to pertinent Items.

Supply litter barrels in enough numbers at locations as directed to control litter within the project. Consider subsidiary to pertinent Items.

Use a self-contained vacuum broom to sweep the roadway and keep it free of sediment due to the Construction of the Roadway, as directed. Consider subsidiary to pertinent Items.

Project Number: BR 2005 (711)

County: HAYS

Highway: CR 266

Sheet:

Control: 0914-33-035

Protect all areas of the right of way, which are not included in the actual limits of the proposed construction areas, from destruction. Exercise care to prevent damage to trees, vegetation, and other natural surroundings. Areas not to be disturbed will be as directed. Restore any area disturbed because of the Contractor's operations to a condition as good as, or better than, before the beginning of work.

Damage to existing pipes and SET's due to Contractor operations shall be repaired at Contractor's expense.

All locations used for storing construction equipment, materials, and stockpiles of any type, within the right of way, will be as directed. Use of right of way for these purposes will be restricted to those locations where driver sight distance to businesses and side street intersections is not obstructed and at other locations where an unsightly appearance will not exist. The Contractor will not have exclusive use of right of way but will cooperate in the use of the right of way with the city/county and various public utility companies as required.

The Project Superintendent will be capable of speaking English and will be available to contact at all times when work is being performed, including subcontractor work. The Superintendent will be available and on-call 24 hours a day.

The latest start-work date is November 1, 2014.

Measure all minimum vertical clearances for all structures (including, but not limited to, signal mast arms, span wires, and overhead sign bridge structures) within the limits of the project for all roadway alignments in all directions of travel. Coordinate with the Engineer to take these measurements and obtain prior to opening roadways to traffic unless otherwise approved. The Engineer will report all minimum vertical clearance information to the District Permit Office.

Furnish, to the Engineer, a list of the final centerline elevations.

When directed, designate an official backer/spotter or "dump-man" who shall wear specially marked clothing and a specially marked hard hat which specifically identifies them as the backer/spotter and identifies that they are the person who is directing the backing operations. They shall be identified to all project personnel, Contractor and TxDOT, when dumping the various project materials, throughout the course of the project.

Storm Water Pollution Prevention Plan (SW3P)/Water Pollution Abatement Plan (WPAP) notes

Maintain erosion control features according to the TxDOT SW3P sheet.

In the event that significant contamination is encountered based on odors, visual evidence, or vapor monitoring, immediately contact the Engineer in accordance with Item 4.3 of the General Provisions of the STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES. The Engineer may suspend work wholly or in part to determine the coordination/management for the testing, removal and

Project Number: BR 2005 (711)

County: HAYS

Highway: CR 266

Sheet:

Control: 0914-33-035

disposal of hazardous materials that might be necessary according to all applicable rules, laws and regulations.

When any abandoned well is encountered, cease construction operations in this area and notify the Engineer who will coordinate the proper plugging procedures with Texas Commission on Environmental Quality (TCEQ).

Plug any drill holes, resulting from core sampling on-site or down-gradient of the site, with concrete from the bottom of the hole to the top of the hole so that water and contaminants are not allowed to enter the subsurface environment.

Removal of the existing structure at the San Marcos River shall be in compliance with the general notes listed under Item 496-Removing Structures.

No fueling of vehicles or equipment shall be allowed in the San Marcos River floodplain without written approval by the Engineer. With Prior approval, large immobile cranes may be refueled if adequate measures are in place to insure no discharge of fuel into the environment. The Engineer shall be sole judge as to the adequacy of these measures.

Move and park all heavy equipment on timber mats or imported washed 4X8 rock when working in the San Marcos River Floodplain.

Restrict construction vehicles from traversing or utilizing existing roadways, unprotected construction areas, and areas with vegetative cover.

Maintain vehicles at designated maintenance sites, unless otherwise approved.

Transport any soils contaminated during construction off of the proposed project, away from the site, and properly dispose of off-site.

Remove any spoils generated from construction within the proposed project daily unless otherwise approved by the Engineer.

Collect wastewater generated on-site by chemical toilets, transport and dispose of off-site, in a proper manner.

Suspend all activities near any significant recharge features, such as sinkholes, caves, or any other subterranean openings that are discovered during construction or core sampling. Do not proceed until the designated Geologist or TCEQ representative is present to evaluate and approve remedial action.

Locate aboveground storage tanks kept on-site for construction purposes over bermed impervious liners as to not allow any leakage into underlying soils. Additionally, the containment will be sized to capture 150% of the total volume of fluids stored on-site within the storage area.

Project Number: BR 2005 (711)
County: HAYS
Highway: CR 266

Sheet:
Control: 0914-33-035

No blasting will be allowed within 300 feet of a geologic feature of significant recharge potential, unless otherwise approved. Known locations of these features are available from the Area Engineer.

For all work over or near Bodies of Water (Lakes, Rivers, Ponds, Creeks, etc.):

Keep on hand Synthetic Absorbent Booms (Petroleum Sorbent Booms, Petroleum Socks, Absorbant Socks, etc.) and Absorbent Pads (Eversoak Sorbents, Industrial Absorbent Pads, Calicorp Absorbent Pads, etc.), both types, for spilled petroleum products, in enough quantity to mitigate a petroleum-type spill due to Contract work.

Exercise extreme caution while performing any activity in the vicinity of the San Marcos River due to the presence of endangered species. Contractor's attention is directed to the presence of Texas Wild Rice in the proximity to the existing/proposed bridge. Maintain a 4-foot diameter non-disturbance around the Texas Wild Rice. Delineate the area around the Texas Wild Rice with orange construction fence and use caution when removing the fence to avoid disturbing the plant. Notify the Engineer prior to any work in proximity to identify limits of non-disturbance locations.

Mechanically place riprap stone protection into the San Marcos River. No free fall will be allowed. The Engineer must approve the placement procedures before rock is placed on the project. Pre-rinse rocks at suitable outside of project limits prior to placing them in the river.

Mechanically place gabions into the San Marcos River. No free fall will be allowed. The Engineer must approve the placement procedures before gabions are placed on the project. Pre-rinse rocks at suitable outside of project limits prior to placing them in the river. Any material dumped that shows signs of dust or contamination may be rejected by the engineer

Safety Contingency & Item 502

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.

ITEM 4 – SCOPE OF WORK

Final cleanup will include the removal of excess material considered detrimental to vegetation growth along the front slope of the ditch. Materials such as surface aggregates and other materials, as specified by the Engineer, will be removed at the Contractor's expense.

ITEM 5 – CONTROL OF THE WORK

Before Contract letting, bidders may obtain from the Engineer's office, the earthwork information. If copies of the actual cross-sections (paper copies) are requested, they will be available at the Engineer's office for borrowing by copying companies for the purpose of making

Project Number: BR 2005 (711)

County: HAYS

Highway: CR 266

Sheet:

Control: 0914-33-035

copies for the bidder, at the bidder's expense. In addition, cross-sections will be available in electronic format, upon request, at no cost to the bidder.

RDS or GEOPAK earthwork output listings for this project are available upon request, on diskettes or CD ROM's, at the Area Engineer's office.

Mark and maintain 100-foot station intervals for the duration of the project, as directed. Consider subsidiary to pertinent Items.

Electronic Shop Drawing Submittals:

Submit Electronic Shop Drawing Submittals according to the current **Guide to Electronic Shop Drawing Submittal (GESDS)**. For instructions on submitting shop drawings electronically go to TxDOT website (Business with TxDOT > Bridge Information > Shop Drawings. File is titled: **Guide to Electronic Shop Drawing Submittal.**)

For information on the electronic shop plan process, please visit the Bridge Division/Fabrication Branch web pages at:

http://www.txdot.gov/business/contractors_consultants/bridge/shop_drawings.htm

The Guide to Electronic Shop Drawing Submittal at:

ftp://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/e_submit_guide.pdf

and the Submittal Requirements table at:

ftp://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/electronic_submission.pdf

have been updated to include additional guidance on segmental bridge submittals.

And

Copies of the standard shop drawings are on file with Traffic Operations Division, Bridge Division, and the Materials Section of Construction Division. Additional shop drawings for roadway illumination assemblies built in conformance with these drawings are not required. Pre-approved shop drawing manufacturers and assembly model numbers can be found at TxDOT website (Business with TxDOT > Materials Information > Material Producer List. Category is Roadway Illumination and Electrical Supplies

1. In the E-mail "To:" box place the E-mail address to the following:

If the Bridge(s) on this Project is a (are) TxDOT Bridge(s), which utilizes TxDOT Standards, then submit the appropriate Shop Drawings (and Working Drawings, if required) directly to the **Bridge Division Fabrication Section**<mailto:>. **See the two paragraphs above.**

Submit all Shop Drawings (and Working Drawings, if/when required), which do not require direct submittal to the **Bridge Division Fabrication Section**, electronically, to the following address:

South Austin Area	David Klipple	David.Klipple@txdot.gov	AUS_SA-ShopReview@txdot.gov
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And

2. In the e-mail "CC:" or "Copy To:" box place the following E-mail addresses:

In every e-mail submittal, the “CC:” or “Copy To:” line of the header will include the following e-mail addresses:

a. Contractor’s Contact:

AND

b. Area Office Contact:

South Austin Area	David Klipple	David.Klipple@txdot.gov	AUS_SA-ShopReview@txdot.gov
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ITEM 6 - CONTROL OF MATERIALS

Article 6.5. Give a minimum of 24 hours of notice for materials, which require Inspection at the Plant.

ITEM 7 – LEGAL RELATIONS AND RESPONSIBILITIES

Article 7.19

Do not initiate activities in a Project Specific Location (PSL) associated with a U.S. Army Corps of Engineers (USACE) jurisdictional area that have not been previously evaluated by the USACE as part of the permit review of this project. Such activities include, but are not limited to, haul roads, equipment staging areas, borrow and disposal sites. Associated defined here means materials are delivered to or from the PSL. The jurisdictional area includes all waters of the U.S. including wetlands or associated wetlands affected by activities associated with this project. Special restrictions may be required for such work. Consult with the USACE regarding activities, including Project Specific Locations (PSLs) that have not been previously evaluated by the USACE. Provide the Department with a copy of all consultations or approvals from the USACE before initiating activities.

Proceed with activities in PSLs that do not affect a USACE jurisdictional area if a self-determination has been made that the PSL is non-jurisdictional or proper USACE clearances have been obtained in jurisdictional areas or have been previously evaluated by the USACE as part of the permit review of this project. Document any determinations that their activities do not affect a USACE jurisdictional area. Maintain copies of their determinations for review by the Department or any regulatory agency.

The Contractor must document and coordinate with the USACE, if required, before any excavation hauled from or embankment hauled into a USACE jurisdictional area by either (1) or (2) below.

(1) Restricted Use of Materials for the Previously Evaluated Permit Areas.

Document both the project specific location (PSL) and their authorization. Maintain copies for review by the Department or any regulatory agency. When an area within the project limits has been evaluated by the USACE as part of the permit process for this project:

- a. Suitable excavation of required material in the areas shown on the plans and cross sections as specified in Item 110, Excavation, is used for permanent or temporary fill (Item 132, Embankment) within a USACE jurisdictional area;
- b. Suitable embankment (Item 132) from within the USACE jurisdictional area is used as fill within a USACE evaluated area; and,

- c. Unsuitable excavation or excess excavation [“Waste”] (Item 110, Excavation) that is disposed of at an approved location within a USACE evaluated area.
- (2) Contractor Materials from Areas Other than Previously Evaluated Areas.**
Provide the Department with a copy of all USACE coordination or approvals before initiating any activities in a jurisdictional area within the project limits that has not been evaluated by the USACE or for any off right of way locations used for the following, but not limited to, haul roads, equipment staging areas, borrow and disposal sites:
- a. Item 132, Embankment, used for temporary or permanent fill within a USACE jurisdictional area; and,
 - b. Unsuitable excavation or excess excavation [“Waste”] (Item 110, Excavation) that is disposed of outside a USACE evaluated area.

The total area estimated to be disturbed for this project is 0.61 acres. The disturbed area in this project, all project locations in the Contract, and the Contractor project specific locations (PSLs), within 1 mile of the project limits, for the Contract will further establish the authorization requirements for storm water discharges. The Department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction activities shown on the plans. The Contractor is to obtain required authorization from the TCEQ for Contractor PSLs for construction support activities on or off the ROW. When the total area disturbed in the Contract and PSLs within 1 mile of the project limits exceeds 5 acres, provide a copy of the Contractor NOI for PSLs on the ROW to the Engineer and to the local government that operates a separate storm sewer system

This project required formal consultation, permits, or both with environmental resource agencies. Environmentally sensitive areas will most likely be encountered on Contractor designated PSLs for this project.

TxDOT has assumed a U.S. Army Corps of Engineers’ (USACE) Nationwide Permit #3 (a) [NWP #3(a)] for this project. The requirement of NWP #3(a) will be adhered to and all disturbed areas will be restored to their original contours after construction is complete. The areas affected by the temporary fills would be revegetated, as appropriate.

TxDOT has assumed a U.S. Army Corps of Engineers’ (USACE) Nationwide Permit #14 (NWP #14) for this project. This allows a maximum of $\frac{1}{10}$ of an acre of permanent fill to be placed within the creek channel. If more than $\frac{1}{10}$ of an acre will need to be filled, a pre-construction notice will need to be completed and mailed to the USACE or an additional permit will need to be obtained, by the Contractor, prior to construction. If temporary access roads will be needed, adhered to the requirement of NWP #14 and restore all disturbed areas be to their original contours, once construction is complete.

A project that requires a USACE permit must use at least one of the Best Management Practices (BMP) from each category listed on the Texas Commission on Environmental Quality (TCEQ) Section 401 checklist for NWP’s. The erosion control BMP for this project would be

Project Number: BR 2005 (711)

County: HAYS

Highway: CR 266

Sheet:

Control: 0914-33-035

blankets/matting. The post construction total suspended solid control BMP for this project would be vegetative filter strips. The sedimentation control BMP for this project would be silt fences and rock berms.

Wash equipment and machinery prior to bringing onto the site. Check machinery for leaks daily. Have equipment on-hand to contain and repair any leaks, should they occur. Remove all equipment and machinery from the area if there is a chance of flooding.

Maintain positive drainage for permanent, as well as, temporary drainage for the duration of the project. This work is the sole responsibility of the Contractor. Construct temporary and permanent drainage systems prior to the placement of temporary pavement, when possible, but absolutely prior to the placement of permanent pavement. Be responsible for any items associated with the temporary/interim drainage and all related maintenance. No direct payment will be made for this work. The Engineer will have the final authority in determining/approving the adequacy of any temporary/permanent drainage features installed.

Migratory Birds

The Contractor's attention is directed to the fact that there is the possibility that migratory birds may be nesting within the project limits. Migratory bird nesting activity can be concentrated on roadway structures such as bridges and culverts. Remove all old migratory bird nests from any structures between September 1 and January 31, and while the nests are not occupied or being used by migratory birds. In addition, be prepared to prevent migratory birds from re-nesting between February 1 and August 31.

All methods used for the removal of old bird nests and the prevention of re-nesting must be approved by the Engineer, well in advance of the planned use.

In the event that any active nest of a migratory bird species is encountered on-site during project construction, all construction activity, within the immediate vicinity of the nest, will cease immediately. Contact the Engineer to determine how to proceed.

No blasting on this project, unless otherwise allowed.

ITEM 8 – PROSECUTION AND PROGRESS

Article 8.3.

Working days will be computed and charged in accordance with Article 8.3.A.1. Five-Day Workweek.

Provide a virus-free computer disk containing the construction schedule.

ITEM 100, 132 & 160 - PREP ROW, EMBANKMENT, & TOPSOIL

Do not burn brush, unless otherwise approved.

Use hand methods or other means to remove objectionable material and obstructions, if doing work by mechanical methods is impractical. Consider subsidiary to the pertinent Items.

Project Number: BR 2005 (711)

County: HAYS

Highway: CR 266

Sheet:

Control: 0914-33-035

ITEM 100 - PREPARING RIGHT OF WAY

Treat cuts on trees with an approved tree wound dressing within 20 minutes of making a pruning cut or otherwise causing damage to the tree, as directed. Consider subsidiary to the pertinent Items.

Trees designated, by the Engineer, to be removed shall be considered subsidiary to Preparing Right of Way.

ITEM 110 & 132 – EXCAVATION & EMBANKMENT

At no time will the retaining wall backfill material exceed the adjacent embankment operation by more than one embankment lift. At no time will the embankment adjacent to the retaining wall backfill exceed the wall backfill by any elevation.

Unsuitable material encountered in a cut or fill section will be considered waste. The Engineer will define unsuitable material. Material, which the Contractor might deem to be unsatisfactory or unsuitable, due to moisture content, will not be considered unsuitable material, unless otherwise approved.

Obtain approval of all compaction equipment prior to all backfilling and embankment operations.

ITEM 132 - EMBANKMENT

Work to correct unstable material (e.g. dry, wet, loose, etc.) to a depth of 6" below existing subgrade elevation, prior to beginning any embankment placement. Consider subsidiary to the various bid Items. Any work to correct unstable material below the 6" depth, below existing subgrade elevation, will be paid as extra work. However, there will be no payment to correct failures, in the subgrade areas, that were constructed under this contract.

Track ALL embankment slopes left idle for more than 14 days, within or at the end of the 14-day idle period, to prevent erosion. Tracking consists of operating a tracked vehicle or equipment up and down the slope, leaving track marks perpendicular to the direction of the slope. Retrack slopes after rain event, as directed. Consider tracking of slopes to prevent erosion as subsidiary to the pertinent Items.

Correct subgrade (e.g. unstable areas, soft spots, etc.) prior to the dumping of Flexbase or HMA CP. Consider subsidiary to the pertinent Items.

Scarify and re-compact existing asphaltic/base sections, which are not called out to be removed in fill sections, where the bottom of the proposed pavement structure is higher than and over the top of the existing asphalt surface, in order to reduce the possibility of a slip plane.

ITEM 160 - TOPSOIL

Obtain approval of all topsoil sources before digging begins. Ensure off-site topsoil has a minimum PI of 25, or as directed. Ensure that the topsoil placed is similar to the topsoil that is within the project. To the extent possible, obtain as much of the topsoil from within the project site, or as directed. TxDOT reserves the right to take samples, as needed, to assure that the

Project Number: BR 2005 (711)

County: HAYS

Highway: CR 266

Sheet:

Control: 0914-33-035

material meets the PI and other requirements as indicated in the Specifications (Fertility, Organics, Erodability, etc.).

No Sandy Loam allowed, unless the project dictates otherwise.

Obtain approval of the actual depth of the topsoil sources for both on-site and off-site sources.

Construct topsoil stockpiles of no more than five (5) feet in height.

It is permissible to use topsoil dikes for erosion control berms within the right of way, as directed.

Track ALL topsoiled slopes left idle for more than 14 days, within or at the end of the 14-day idle period, to prevent erosion. Tracking consists of operating a tracked vehicle or equipment up and down the slope, leaving track marks perpendicular to the direction of the slope. Retrack slopes after rain event, as directed. Consider the tracking of slopes to prevent erosion as subsidiary to the pertinent Items.

Upon final grading, immediately track all topsoiled slopes to prevent erosion, prior to seeding operations, as directed. Consider subsidiary to the pertinent Items.

Provide measurements for payment of topsoil quantities before seeding. Consider subsidiary to the pertinent Items.

Place Topsoil in accordance with the SW3P, in phases, as partial completion of the roadway is obtained.

Perform topsoil measurements with the Engineer, as directed. Consider subsidiary to the pertinent Items.

ITEM 164 – SEEDING FOR EROSION CONTROL

Obtain vegetation establishment of all seeded areas, including adequate coverage, prior to “Final Acceptance.” If all other work is complete, time charges may be suspended, until adequate coverage is established.

Do not use ryegrass for temporary cover.

Reseed all areas with “little or no” grass growth after 1 month from the last seeding date, as directed. Consider subsidiary to the various bid Items.

Provide measurements for payment of seeding for erosion control quantities before seeding. Consider subsidiary to the pertinent Items.

Perform seeding for erosion control measurements with the Engineer, as directed. Consider subsidiary to the pertinent Items.

Project Number: BR 2005 (711)

County: HAYS

Highway: CR 266

Sheet:

Control: 0914-33-035

ITEM 168 – VEGETATIVE WATERING

Water all areas of project to be seeded or sodded.

Maintain the seedbed in a condition favorable for the growth of grass. Watering can be postponed immediately after a rainfall on the site of ½ inch or greater, but will be resumed before the soil dries out. Continue watering until final acceptance.

Vegetative watering rates and quantities are based on ¼ inch of watering per week over a 3-month watering cycle. The actual rates used and paid for will be as directed and will be based on prevailing weather conditions to maintain the seedbed.

Obtain water at a source that is metered (furnish a current certification of the meter being used) or furnish the manufacturer’s specifications showing the tank capacity for each truck used. Notify the Engineer, each day that watering takes place, before watering, so that meter readings or truck counts can be verified.

ITEM 169 – SOIL RETENTION BLANKETS

Provide machined mat of curled wood excelsior of 80%, six-inch or longer fibers. The top of each blanket is covered with a photodegradable extruded plastic mesh. For the weight requirements, (lbs/sq yd), of the matting see DMS 6370, typical roll width = 48 or 96 inches; typical roll length = 90 feet. This soil retention blanket should meet the previous stated requirements, equal, or better as approved.

Use materials from prequalified material producers list as shown on the Texas Department of Transportation (TxDOT) ----- Construction Divisions (CST) materials producers list. See TxDOT website ([www.txdot.gov/Business with TxDOT > Materials Information > Material Producer List](http://www.txdot.gov/Business%20with%20TxDOT%20Materials%20Information%20Material%20Producer%20List)) for list of pre-qualified manufacturers. Direct all questions to the Maintenance Division, Vegetation Management Section, 125 E. 11th Street, Austin, TX 78701-2483.

ITEM 247 - FLEXIBLE BASE

Furnish Type A material.

Furnish flexible base meeting Grade 5 requirements.

The following table will govern the acceptance of compaction on base courses, when compacted in multiple courses. Compaction requirements are in percent of maximum dry density as determined by (Tex-113-E). When compacting in a single course, compact to at least 100% of maximum dry density as determined by Tex-113-E.

Item	Material	All Roadways	
		Lift	Min Density
247	FL BS (CMP IN PLC)	1	95%
		2	98%
		3 (final lift)	100%

Use Flex Base (CMP IN PL) (TY A GR 5) for driveways, minor streets, and other locations as directed.

Project Number: BR 2005 (711)
County: HAYS
Highway: CR 266

Sheet:
Control: 0914-33-035

ITEM 300 – ASPHALTS, OILS, AND EMULSIONS

Asphalt season starts May 1 and ends September 15.

ITEM 310

Perform work during good weather, unless otherwise directed. If work is performed at Contractor's option, when inclement weather is impending, and the work is damaged by subsequent precipitation, the Contractor is responsible for all costs associated with replacing the work, if required.

ITEM 310 – PRIME COAT

Any oil or asphaltic material being paid for on the project shall use tank strap method as shown in TxDOT Seal Coat and Surface Treatment Manual 2004-1.

ITEM SS3268 (HMACP Testing)

The Contractor must sample asphalt binder, in accordance to the applicable item. Label the sample can with the corresponding CSJ, lot, and subplot numbers.

Samples must be stored in a common area where they are readily available to the TxDOT representative at the plant. The Contractor will be responsible for supplying storage for all samples. Retain all asphalt samples until hot mix production is complete or directed otherwise.

When directed, the Contractor is responsible for disposal of all asphalt binder samples, in accordance to Local, State, and Federal regulations.

[Hot Mix Asphaltic Conc (HMAC) Core Holes]

Refill and compact all HMAC core holes to the same elevation as the adjacent roadway. Use hot mix of the type being used in the project to fill core holes. As an alternative a high performance cold patching mix such as Rapid Cure Patching Mix meeting the requirements of DMS-9203 or Medium Cure Patching mix made with SCM meeting requirements of DMS-9202. Consider this work subsidiary to the pertinent Items.

ITEM SS3268

Transition from the new ACP to the existing surface tie-in by utilizing a required milled transition to a vertical butt joint. Make the transition a minimum of 50 feet H: 1 inch V slope ratio of newly placed ACP. Make the temporary joint, at the tie-in, a minimum of a "3-paper-taper" longitudinally and covering the entire width. Sawcut existing pavement as directed. Prior to milling, core the existing pavement to determine its thickness. Do not proceed with milling until directed. Consider this work subsidiary to the pertinent Items.

ITEM SS3268 - DENSE-GRADED HOT-MIX ASPHALT (Method) & (QC/QA)

Provide mixture Type C using PG binder 64-22.

Use aggregate meeting a Surface Aggregate Classification (SAC) requirement of "B" for surface course mixtures.

All base or non-surface mixtures require SAC "B" aggregate, unless directed otherwise.

Target laboratory molded density is 96.5% for mixtures without recycled asphalt and 97% for mixtures with recycled asphalt for TGC mixture designs.

When using Superpave Gyrotory Compactor (SGC) to design mixtures, submit the SGC mix design to the Engineer for approval.

When using substitute binders, mold specimens for mix design and production at the temperature required for the substitute binder used to produce the HMA.

All mixtures must meet the Hamburg requirement as stated in the table below.

High-Temperature Binder Grade	Test Method	Hamburg Wheel Test Requirements¹		
		Minimum # of Passes	Maximum Rut Depth (mm)²	Minimum Rut Depth (mm)^{2,3}
PG 64 or lower	Tex-242-F	7,000	12.5	3
PG 70	Tex-242-F	15,000	12.5	3
PG 76 or higher	Tex-242-F	20,000	12.5	3

1. The Engineer may accept Hamburg Wheel test results for production and placement if no more than 1 of the 5 most recent tests is below the specified number of passes and the failing test is no more than 2,000 passes below the specified number of passes.
2. Rut depth tested @122°F
3. Unless approved otherwise.

Complete all roadways before final surface course placement, unless directed otherwise.

Ensure placement sequence to avoid excess distance of longitudinal joint lapback not to exceed one day's production rates.

Use a device to create a maximum 3H: 1V notched wedge joint on all hot mix joints of 2 in. or greater. Consider subsidiary to the pertinent Items.

Submit any proposed adjustments or changes to a job mix formula to the Engineer before production of the new job mix formula.

Tack every intermediate layer, unless otherwise directed. Do not dilute tack coat. Apply it through a distributor spray bar in accordance with Article 316.3(A) Distributor.

Do not dilute tack coat. Apply it through a distributor spray bar in accordance with Article 316.3(A) Distributor.

When surface irregularities, as defined in Article 341.4.I.3.c(5), "Irregularities", are detected or measured, the Contractor must take immediate corrective action defined as the removal and replacement of a full lane width of the defective area using a paver to place new mix, unless

Project Number: BR 2005 (711)

County: HAYS

Highway: CR 266

Sheet:

Control: 0914-33-035

otherwise directed. If there are multiple defective areas within a subplot, making up to 30% of the subplot by area, the Engineer will require the entire subplot be removed, unless directed otherwise.

Provide a minimum transition for all side streets of at least 12 feet and driveways of at least six (6) feet, unless otherwise shown on the plans or otherwise approved/directed.

ITEM 3268

Submit thermal and segregation profiles as well as longitudinal joint densities on electronic forms provided by TXDOT.

ITEM 416 - DRILLED SHAFT FOUNDATIONS

Stake all Foundations, for approval, before beginning drilling operations, as directed.

Remove spoils, daily, out of flood plain, or as directed.

Take one core hole at each abutment and bent, as directed.

ITEM 416 & 420

For work within the water. The Contractor shall prepare a rock bed for access to the river using 4x8 washed rock. The rock shall be contained by washed traffic barrier on all sides. The rock and barrier shall all be removed upon completion of work. Contractor shall provide a sketch of this work or written alternate to provide access to work within the water. This access shall not be placed across the entire river. There shall always be 50 feet of stream open to river traffic in the deepest part of the river. Materials and work performed to complete the rock bed access shall be subsidiary to the various bid items.

The Contractor's attention is drawn to the interior bent location highlighting a section of the columns to be constructed underwater. The Contractor shall submit for review the method for constructing the interior bent/columns. The detailed plan will include techniques in place to keep any material from entering the San Marcos River. All items needed to accomplish the construction will be subsidiary to the various bid items.

ITEM - 420 & 425

Notify TxDOT Contact for Bridge Inventory prior to opening each phase of bridge or bridge class culvert construction to traffic. Notification is required for all new and modified bridge class structures. Notify TxDOT Contact within 24 hours of Bridge demolition. Structure shall be inventoried by Austin District Bridge Section within 90 days of structure opening to traffic.

TxDOT Contact: Austin District Bridge Engineer, Michelle Romage-Chambers, at Michelle.RomageChambers@txdot.gov & (512-814-9624).

ITEM 420 & 432

Remove all loose Formwork and other Materials from the Floodplain or drainage areas, daily, which could float off in a Stormwater Event, as directed.

Project Number: BR 2005 (711)

County: HAYS

Highway: CR 266

Sheet:

Control: 0914-33-035

ITEM 420 - CONCRETE STRUCTURES

Perform work during good weather unless otherwise directed. If work is performed at Contractor's option, when inclement weather is impending, and the work is damaged by subsequent precipitation, the Contractor is responsible for all costs associated with replacing the work, if required.

Prior to the completion of work, stencil the National Bridge Inventory (NBI) number (structure number) on each structure built/shown on this project, as directed. Verify with the Engineer that the NBI number, which is shown on each Bridge Layout, is the number to use. Stencil the NBI number in an approved location on each bridge. Consider subsidiary to the pertinent Items.

ITEM 432 - RIPRAP

Make 5-inches thick unless otherwise noted or directed.

Make all mow strip riprap four (4) inches, unless otherwise directed.

Where any proposed riprap joins existing riprap, saw cut the existing riprap and dowel/epoxy the joint as directed. Consider subsidiary to the pertinent Items.

Additional riprap may be required, as determined by the Engineer, near the end of project completion, due to unanticipated erosion locations. Any additional, approved riprap will be paid under this Item.

Consider saw cutting of riprap as subsidiary.

Provide Class B Concrete for that riprap placed around ground mounted large signs and overhead sign structures.

ITEM 459 - GABIONS

Use Duckbill anchors, Manta Ray anchors, or equivalent to secure the gabion baskets to the ground.

ITEM 496 - REMOVING STRUCTURES

Notify TxDOT at least 30 days prior to any bridge removal that will require a 10-Calendar Day, Prior-To-Work Notification to Texas Department of State Health Services (DSHS). If the work does not happen on the notified date then another 10-Calendar Day, Prior-To-Work Notification will be required.

Provide a detailed plan for the removal of the existing structure to include the schedule of removal and list of all equipment to be used.

Have a complete containment system in place to prevent any material from entering the San Marcos River. This system shall be submitted, in writing, to the Engineer and shall be in place prior to any demolition or construction activity. The containment system submission shall

Project Number: BR 2005 (711)

County: HAYS

Highway: CR 266

Sheet:

Control: 0914-33-035

consist of, as a minimum, a detailed work plan, material and equipment storage plan, material removal plan, and technical shop drawings. No work in the vicinity of the waterways will be permitted until this system has been approved, in writing, by the Engineer and installed by the Contractor. This system shall prevent all foreign matter, including dust from entering the waterways. No direct payment shall be made for this work; it shall be considered subsidiary to this bid item.

A saw cutting plan shall also be submitted to, and approved by, the Engineer prior to any activity. The method of finishing the saw cut areas shall be included in the submitted plan and shall prevent corrosion decay or erosion from entering the river. All residue produced by saw cutting shall be vacuumed up and not allowed to flow into the river. No direct payment shall be made for this work; it shall be considered subsidiary to this bid item.

The Demolition Plan will meet the requirements of the Corps of Engineers Section 404 permit. No debris will be allowed to fall into the San Marcos River or its floodway.

No demolition work over, around, or in the San Marcos River will be allowed to proceed until the Engineer has approved the Demolition Plan. There may be other requirements associated with this item, to be determined dependent on the Demolition Plan submitted.

The structure or structures to be removed may have surface coatings, which may contain hazardous materials. Provide for the safety and health of employees and abide by all OSHA Standards and regulations as well as those set by the Texas Department of State Health Services (DSHS).

The structural steel to be removed may contain lead paint. Submit a proposed Demolition Plan for approval by the Engineer at least 60 days prior to the desired demolition date. Demolition Plan should limit disturbing where lead paint is located, when possible. If flame-cutting methods will be used and lead paint cannot be avoided, the Department will arrange to have the paint removed at the indicated flame-cutting locations. The paint will be removed by a separate Contractor for a width of 4-inches. No paint removal will be required if other demolition methods are employed.

ITEM 502 - BARRICADES, SIGNS, AND TRAFFIC HANDLING

Within the limits of the project, provide standard barricades, warning signs, delineators, lights, 28-inch cones, and flaggers in enough numbers and combinations, as directed.

Maintain access to all streets and driveways at all times, unless otherwise approved. Consider subsidiary to the pertinent Items.

Maintain enough workers to revise traffic control as directed.

Maintain construction-warning signs, which are needed for longer periods than what is shown on the traffic control plan or as directed. Consider subsidiary to the pertinent Items.

Project Number: BR 2005 (711)

County: HAYS

Highway: CR 266

Sheet:

Control: 0914-33-035

Cover or remove any existing sign(s), which conflict with temporary traffic control operations. Install all permanent signs, delineation, and object markers necessary for the operation of any roadway before opening that section of roadway to traffic, regardless of the phase during which the roadway construction occurs. Erect the signs on temporary mounts until the permanent mounts are installed. Consider any costs associated with the temporary mounts subsidiary. Repair or replace any signs, which are damaged by the Contractor's operations during construction or which are deemed not sufficient. The Engineer will be the sole judge of the adequacy of the sign(s). Consider this work subsidiary to the pertinent Items.

Secure a 28-inch cone on top of any foundations that have protruding studs during construction. The cones will meet the specifications listed on BC (10)-07. In addition, they will be reflectorized, as described. All labor and materials will be considered subsidiary to the pertinent Items.

ITEM 1122 - TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS

Obtain the Engineer's approval for proposed methods used for erosion control before starting each phase of construction.

Stockpile 4-inch by 8-inch (4" x 8") rock for emergency erosion control use, as directed. Place this rock in ditches and other areas, as directed. The Contractor will be reimbursed in accordance with Pertinent Items or Article 9.5, "Force Account."

Place temporary sediment fence at locations where large roadside guide signs and new overhead sign structures are installed. In addition, place temporary sediment fence at those locations where existing large guide signs and structures are to be removed.

Double-bag all sandbags used for erosion control Items. Consider subsidiary to pertinent Items.

ITEM 540 - METAL BEAM GUARD FENCE

Adjust the limits of the Metal Beam Guard Fence (MBGF) to meet field conditions, as directed, before erection.

Before beginning the installation of the proposed MBGF, stake the locations for approval.

Furnish new, round, domed and unpainted timber posts. Furnish steel posts at locations where the minimum embedment shown on the plans for wooden posts cannot be achieved. Field verify the steel post lengths before fabrication. Consider the steel posts subsidiary to pertinent Items.

Install all permanent MBGF and delineators, when the roadway is constructed in one-half widths, on that section, before opening the road to traffic.

ITEM 644 - SMALL ROADSIDE SIGN SUPPORTS AND ASSEMBLIES

Fabricate all small signs not detailed on the plans in conformance with the latest edition of the "Standard Highway Sign Designs for Texas."

<http://www.txdot.gov/business/resources/highway.html>

Project Number: BR 2005 (711)

County: HAYS

Highway: CR 266

Sheet:

Control: 0914-33-035

ITEM 666, & 672

Apply markings during good weather unless otherwise directed. If markings are placed at Contractor's option, when inclement weather is impending, and the markings are damaged by subsequent precipitation, the Contractor is responsible for all costs associated with replacing the markings if required.

ITEM 666 - REFLECTORIZED PAVEMENT MARKINGS

Apply Type I ReflectORIZED Pavement Markings no sooner than 4 days after applying the final course of HMA CP, unless otherwise directed.

ITEM 672 - RAISED PAVEMENT MARKERS

Place the bituminous adhesive at a temperature range of 380°F to 390°F. Place the pavement marker on the bituminous adhesive approximately 20 seconds after the adhesive is placed on the pavement. Ensure the pavement marker rests solely on the adhesive and not the pavement surface. Ensure that a minimum of 1/8 in. layer of bituminous adhesive remains between the pavement marker and the pavement surface.