
To:	All Plan Holders	Project:	Runway Pavement and Lighting Improvements
Airport:	Munday Municipal Airport	KSA Project No.:	MUN.001
Date:	Friday February 19 th , 2021	TxDOT Project No.:	2025MUNDY

The plans, specifications, and contract documents are modified as described below. All bidders shall acknowledge receipt of this and all other addenda on page 6 of the bid form. This addendum becomes a part of the contract documents. All provisions of the original plans, specifications, and contract documents shall remain in full force and effect, except as modified by this addendum.

I. Notice to Bidders

A. Modify the first paragraph to read:

Sealed bids for the construction of airport improvements at Munday Municipal Airport need to be addressed and delivered to Mr. David Trevino, City Manager, City Hall, 121 E. Main Street, Munday, TX 76371. Bids will be received until 2:30 PM, March 3, 2021, then publicly opened and read. Any bid received after closing time will be returned unopened.

II. Specification Revisions

A. Item C-100 Contractor Quality Control Program (CQCP)

Replace existing Item C-100 with the attached Item C-100

III. Plan Revisions

A. Replace existing Sheet C11 with attached Sheet C11

B. Replace existing Sheet C12 with attached Sheet C12

IV. Contractor Questions

A. When are Contractor questions due?

With the extension of the bid date, questions must be received by noon on February 22nd, 2021.

B. Can site visits be made?

Yes. Please coordinate site visits to the Airport with Ryan Cottingham. See the attached sign in sheet for contact information.

C. Is water available?

Yes. Limited well water is available on site. Additional water is available elsewhere. Coordinate with the City for locations and cost.

D. Where is the "Unsuitable Subgrade?"

Per Item KSA-200, this material is in the areas where weak or pumping subgrade is encountered beneath areas to be paved.

- E. Can the requirements of C-100, related to the quality control plan, be relaxed due to the minimal amount of paving work?

Revisions have been made to C-100. Revised C-100 is attached.

- F. Is there a pay item for the edge grading or is it subsidiary?

Shoulder grading is paid for under Additive Alternate 2 and is a separate pay item.

- G. Sheet C11, Detail 2 states that payment is made at a price per gallon. Is this correct?

It is not. This has been corrected on the attached Sheet C11.

- H. Is AEP acceptable for prime coat?

Per paragraph 602-2.1 of Item P-620, prime coat must be an emulsified asphalt material as specified in ASTM D3628 for use as a prime coat.

- I. Can we squeegee the crack sealer or no band on top?

Preparation of cracks prior to surface treatment must be per paragraph 101-3.2 of Item P-101 "Preparation/Removal of Existing Pavements." Per Item P-101, when placing crack sealer, underfill the crack sealant a minimum of 1/8 inch, not to exceed 1/4 inch. Any excess crack sealer must be removed from the pavement surface.

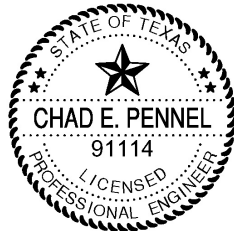
V. **Attachments**

- A. Revised Item C-100 of the Specifications
- B. Revised Plan Sheets C11 and C12
- C. Pre-Bid Meeting Agenda
- D. Pre-Bid Meeting Sign In

Addendum No. 1 Issued By:
KSA



Chad E. Pennel, P.E.



2/19/21

TBPE Firm Registration No. F-1356

Item C-100 Contractor Quality Control Program (CQCP)

100-1 General. Quality is more than test results. Quality is the combination of proper materials, testing, workmanship, equipment, inspection, and documentation of the project. Establishing and maintaining a culture of quality is key to achieving a quality project. The Contractor shall establish, provide, and maintain an effective Contractor Quality Control Program (CQCP) that details the methods and procedures that will be taken to assure that all materials and completed construction required by this contract conform to contract plans, technical specifications and other requirements, whether manufactured by the Contractor, or procured from subcontractors or vendors. Although guidelines are established and certain minimum requirements are specified here and elsewhere in the contract technical specifications, the Contractor shall assume full responsibility for accomplishing the stated purpose.

The Contractor shall establish a CQCP that will:

- a. Provide qualified personnel to develop and implement the CQCP.
- b. Provide for the production of acceptable quality materials.
- c. Provide sufficient information to assure that the specification requirements can be met.
- d. Document the CQCP process.

The Contractor shall not begin any construction or production of materials to be incorporated into the completed work until the CQCP has been reviewed and approved by the **Engineer Resident Project Representative (RPR)**. No partial payment will be made for materials subject to specific quality control (QC) requirements until the CQCP has been reviewed and approved.

The QC requirements contained in this section and elsewhere in the contract technical specifications are in addition to and separate from the quality assurance (QA) testing requirements. QA testing requirements are the responsibility of the **Engineer**, RPR or Contractor as specified in the specifications.

~~A Quality Control (QC)/Quality Assurance (QA) workshop with the Engineer, Resident Project Representative (RPR), Contractor, subcontractors, testing laboratories, and Owner's representative must be held prior to start of construction. The QC/QA workshop will be facilitated by the Contractor. The Contractor shall coordinate with the Airport and the Engineer RPR on time and location of the QC/QA workshop. Items to be addressed, at a minimum, will include:~~

- ~~a. Review of the CQCP including submittals, QC Testing, Action & Suspension Limits for Production, Corrective Action Plans, Distribution of QC reports, and Control Charts.~~
- ~~b. Discussion of the QA program.~~
- ~~c. Discussion of the QC and QA Organization and authority including coordination and information exchange between QC and QA.~~
- ~~d. Establish regular meetings to discuss control of materials, methods and testing.~~
- ~~e. Establishment of the overall QC culture.~~

100-2 Description of program.

a. General description. The Contractor shall establish a CQCP to perform QC inspection and testing of all items of work required by the technical specifications, including those performed by subcontractors. The CQCP shall ensure conformance to applicable specifications and plans with respect to materials, off-

site fabrication, workmanship, construction, finish, and functional performance. The CQCP shall be effective for control of all construction work performed under this Contract and shall specifically include surveillance ~~and tests~~ required by the technical specifications, in addition to other requirements of this section and any other activities deemed necessary by the Contractor to establish an effective level of QC.

b. Contractor Quality Control Program (CQCP). The Contractor shall describe the CQCP in a written document that shall be reviewed and approved by the ~~Engineer RPR~~ prior to the start of any production, construction, or off-site fabrication. The written CQCP shall be submitted to the ~~Engineer RPR~~ for review and approval at least 10 calendar days before the CQCP Workshop. The Contractor's CQCP ~~and QC testing laboratory~~ must be approved in writing by the ~~Engineer RPR~~ prior to the Notice to Proceed (NTP).

The CQCP shall be organized to address, as a minimum, the following:

- (1) QC organization and resumes of key staff
- (2) Project progress schedule
- (3) Submittals schedule
- (4) Inspection requirements
- ~~(5) QC testing plan~~
- (6) Documentation of QC activities and distribution of QC reports
- (7) Requirements for corrective action when QC and/or QA acceptance criteria are not met

~~(8) Material quality and construction means and methods. Address all elements applicable to the project that affect the quality of the pavement structure including subgrade, subbase, base, and surface course. Some elements that must be addressed include, but is not limited to mix design, aggregate grading, stockpile management, mixing and transporting, placing and finishing, quality control testing and inspection, smoothness, laydown plan, equipment, and temperature management plan.~~

The Contractor must add any additional elements to the CQCP that is necessary to adequately control all production and/or construction processes required by this contract.

100-3 CQCP organization. The CQCP shall be implemented by the ~~Program Administrator, establishment of a QC organization.~~ An organizational chart shall be developed to show all QC personnel, ~~their authority, and how these personnel integrate with other management/production and construction functions and personnel.~~

The organizational chart shall identify all QC staff by name and function, and shall indicate the total staff required to implement all elements of the CQCP. ~~including inspection and testing for each item of work. If necessary, different technicians can be used for specific inspection and testing functions for different items of work. If an outside organization or independent testing laboratory is used for implementation of all or part of the CQCP, the personnel assigned shall be subject to the qualification requirements of paragraphs 100-03a and 100-03b. The organizational chart shall indicate which personnel are Contractor employees and which are provided by an outside organization.~~

The QC organization shall, as a minimum, consist of the following personnel:

a. Program Administrator. The Contractor Quality Control Program Administrator (CQCPA) must be a full-time employee of the Contractor, or a consultant engaged by the Contractor. The CQCPA must have a minimum of five (5) years of experience in QC pavement construction with ~~prior QC~~ experience on a project of comparable size and scope as the contract.

~~Included in the five (5) years of paving/QC experience,~~ †The CQCPA must meet at least one of the following requirements:

- (1) Professional Engineer with one (1) year of airport paving experience.
- (2) Engineer-in-training with two (2) years of airport paving experience.
- (3) National Institute for Certification in Engineering Technologies (NICET) Civil Engineering Technology Level IV with three (3) years of airport paving experience.
- (4) An individual with four (4) years of airport paving experience, with a Bachelor of Science Degree in Civil Engineering, Civil Engineering Technology or Construction.

The CQCPA must have full authority to institute any and all actions necessary for the successful implementation of the CQCP to ensure compliance with the contract plans and technical specifications. The CQCPA authority must include the ability to immediately stop production until materials and/or processes are in compliance with contract specifications. The CQCPA must report directly to a principal officer of the construction firm. The CQCPA may supervise the Quality Control Program on more than one project provided that person can be at the job site within two (2) hours after being notified of a problem.

b. QC technicians. If necessary, a sufficient number of QC technicians necessary to adequately implement the CQCP must be provided. These personnel must be either Engineers, engineering technicians, or experienced craftsman with qualifications in the appropriate field equivalent to NICET Level II in Civil Engineering Technology or higher, and shall have a minimum of two (2) years of experience in their area of expertise.

The QC technicians must report directly to the CQCPA and shall perform the following functions:

- (1) Inspection of all materials, construction, plant, and equipment for conformance to the technical specifications, and as required by paragraph 100-6.
- (2) ~~Performance of all QC tests as required by the technical specifications and paragraph 100-8.~~
- (3) Performance of tests for the Engineer and RPR when required by the technical specifications.

Certification at an equivalent level of qualification and experience by a state or nationally recognized organization will be acceptable in lieu of NICET certification.

c. Staffing levels. The Contractor shall provide sufficient qualified QC personnel to monitor each work activity at all times. ~~Where material is being produced in a plant for incorporation into the work, separate plant and field technicians shall be provided at each plant and field placement location.~~ The scheduling and coordinating of all inspection and testing must match the type and pace of work activity. The CQCP shall state where different technicians will be required for different work elements.

100-4 Project progress schedule. Critical QC activities must be shown on the project schedule as required by Section 80, paragraph 80-03, *Execution and Progress*.

100-5 Submittals schedule. The Contractor shall submit a detailed listing of all submittals (for example, mix designs, material certifications) and shop drawings required by the technical specifications. The listing can be developed in a spreadsheet format and shall include as a minimum:

- a. Specification item number
- b. Item description
- c. Description of submittal
- d. Specification paragraph requiring submittal
- e. Scheduled date of submittal

100-6 Inspection requirements. QC inspection functions shall be organized to provide inspections for all definable features of work, as detailed below. All inspections shall be documented by the Contractor as specified by paragraph 100-9.

Inspections shall be performed as needed to ensure continuing compliance with contract requirements until completion of the particular feature of work. Inspections shall include the following minimum requirements:

~~a. During plant operation for material production, QC test results and periodic inspections shall be used to ensure the quality of aggregates and other mix components, and to adjust and control mix proportioning to meet the approved mix design and other requirements of the technical specifications. All equipment used in proportioning and mixing shall be inspected to ensure its proper operating condition. The CQCP shall detail how these and other QC functions will be accomplished and used.~~

~~b. During field operations, QC test results and periodic inspections shall be used to ensure the quality of all materials and workmanship. All equipment used in placing, finishing, and compacting shall be inspected to ensure its proper operating condition and to ensure that all such operations are in conformance to the technical specifications and are within the plan dimensions, lines, grades, and tolerances specified. The CQCP shall document how these and other QC functions will be accomplished and used.~~

100-7 Contractor QC testing facility.

~~a. For projects that include Item P 401, Item P 403, and Item P 404, the Contractor shall ensure facilities, including all necessary equipment, materials, and current reference standards, are provided that meet requirements in the following paragraphs of ASTM D3666, *Standard Specification for Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials*:~~

- ~~● 8.1.3 Equipment Calibration and Checks;~~
- ~~● 8.1.9 Equipment Calibration, Standardization, and Check Records;~~
- ~~● 8.1.12 Test Methods and Procedures~~

~~b. For projects that include P 501, the Contractor shall ensure facilities, including all necessary equipment, materials, and current reference standards, are provided that meet requirements in the following paragraphs of ASTM C1077, *Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation*:~~

- ~~● 7 Test Methods and Procedures~~
- ~~● 8 Facilities, Equipment, and Supplemental Procedures~~

100-8 QC testing plan. As a part of the overall CQCP, the Contractor shall implement a QC testing plan, as required by the technical specifications. The testing plan shall include the minimum tests and test frequencies required by each technical specification Item, as well as any additional QC tests that the Contractor deems necessary to adequately control production and/or construction processes.

The QC testing plan can be developed in a spreadsheet fashion and shall, as a minimum, include the following:

- ~~a. Specification item number (e.g., P 401)~~
- ~~b. Item description (e.g., Hot Mix Asphalt Pavements)~~
- ~~c. Test type (e.g., gradation, grade, asphalt content)~~
- ~~d. Test standard (e.g., ASTM or American Association of State Highway and Transportation Officials (AASHTO) test number, as applicable)~~
- ~~e. Test frequency (e.g., as required by technical specifications or minimum frequency when requirements are not stated)~~
- ~~f. Responsibility (e.g., plant technician)~~
- ~~g. Control requirements (e.g., target, permissible deviations)~~

~~The QC testing plan shall contain a statistically based procedure of random sampling for acquiring test samples in accordance with ASTM D3665. The Engineer and RPR shall be provided the opportunity to witness QC sampling and testing.~~

~~All QC test results shall be documented by the Contractor as required by paragraph 100-9.~~

100-9 Documentation. The Contractor shall maintain current QC records of all inspections ~~and tests~~ performed. These records shall include factual evidence that the required QC inspections ~~or tests~~ have been performed, including type and number of inspections ~~or tests~~ involved; results of inspections ~~or tests~~; nature of defects, deviations, causes for rejection, etc.; proposed remedial action; and corrective actions taken.

These records must cover both conforming and defective or deficient features, and must include a statement that all supplies and materials incorporated in the work are in full compliance with the terms of the contract. Legible copies of these records shall be furnished to the Engineer and RPR daily. The records shall cover all work placed subsequent to the previously furnished records and shall be verified and signed by the CQCPA.

Contractor QC records required for the contract shall include, but are not necessarily limited to, the following records:

a. Daily inspection reports. Each Contractor QC technician shall maintain a daily log of all inspections performed for both Contractor and subcontractor operations. These technician's daily reports shall provide factual evidence that continuous QC inspections have been performed and shall, as a minimum, include the following:

- (1) Technical specification item number and description
- (2) Compliance with approved submittals
- (3) Proper storage of materials and equipment
- (4) Proper operation of all equipment
- (5) Adherence to plans and technical specifications
- (6) Summary of any necessary corrective actions
- (7) Safety inspection.

The daily inspection reports shall identify all QC inspections ~~and QC tests~~ conducted, results of inspections, location and nature of defects found, causes for rejection, and remedial or corrective actions taken or proposed.

The daily inspection reports shall be signed by the responsible QC technician and the CQCPA. The Engineer and RPR shall be provided at least one copy of each daily inspection report on the work day following the day of record. When QC inspection ~~and test results~~ are recorded and transmitted electronically, the results must be archived.

b. Daily test reports. ~~The Contractor shall be responsible for establishing a system that will record all QC test results. Daily test reports shall document the following information:~~

- ~~(1) Technical specification item number and description~~
- ~~(2) Test designation~~
- ~~(3) Location~~
- ~~(4) Date of test~~
- ~~(5) Control requirements~~
- ~~(6) Test results~~
- ~~(7) Causes for rejection~~
- ~~(8) Recommended remedial actions~~

~~(9) Retests~~

~~Test results from each day's work period shall be submitted to the Engineer and RPR prior to the start of the next day's work period. When required by the technical specifications, the Contractor shall maintain statistical QC charts. When QC daily test results are recorded and transmitted electronically, the results must be archived.~~

100-10 Corrective action requirements. The CQCP shall indicate the appropriate action to be taken when a process is deemed, or believed, to be out of control (out of tolerance) and detail what action will be taken to bring the process into control. The requirements for corrective action shall include both general requirements for operation of the CQCP as a whole, and for individual items of work contained in the technical specifications.

The CQCP shall detail how the results of QC inspections ~~and tests~~ will be used for determining the need for corrective action and shall contain clear rules to gauge when a process is out of control and the type of correction to be taken to regain process control.

~~When applicable or required by the technical specifications, the Contractor shall establish and use statistical QC charts for individual QC tests. The requirements for corrective action shall be linked to the control charts.~~

100-11 Inspection and/or observations by the Engineer and RPR. All items of material and equipment are subject to inspection and/or observation by the Engineer and RPR at the point of production, manufacture or shipment to determine if the Contractor, producer, manufacturer or shipper maintains an adequate QC system in conformance with the requirements detailed here and the applicable technical specifications and plans. In addition, all items of materials, equipment and work in place shall be subject to inspection and/or observation by the Engineer and RPR at the site for the same purpose.

Inspection and/or observations by the Engineer and RPR does not relieve the Contractor of performing QC inspections of either on-site or off-site Contractor's or subcontractor's work.

100-12 Noncompliance.

a. The Engineer Resident Project Representative (RPR) will provide written notice to the Contractor of any noncompliance with their CQCP. After receipt of such notice, the Contractor must take corrective action.

b. When QC activities do not comply with either the CQCP or the contract provisions or when the Contractor fails to properly operate and maintain an effective CQCP, and no effective corrective actions have been taken after notification of non-compliance, the Engineer RPR will recommend the Owner take the following actions:

(1) Order the Contractor to replace ineffective or unqualified QC personnel or subcontractors and/or

(2) Order the Contractor to stop operations until appropriate corrective actions are taken.

METHOD OF MEASUREMENT

100-13 Basis of measurement and payment. Contractor Quality Control Program (CQCP) is for the personnel, ~~tests~~, facilities and documentation required to implement the CQCP. The CQCP will be paid as a lump sum with the following schedule of partial payments:

a. With first pay request, 50% with approval of CQCP and completion of the Quality Control (QC)/Quality Assurance (QA) workshop.

b. When 25% or more of the original contract is earned, an additional 25%.

- c. When 50% or more of the original contract is earned, an additional 10%.
- d. When 75% or more of the original contract is earned, an additional 10%
- e. After final inspection and acceptance of project, the final 5%.

BASIS OF PAYMENT

100-14 Payment will be made under:

Item C-100 Contractor Quality Control Program (CQCP)

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

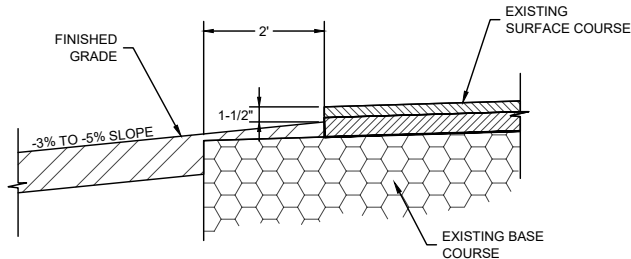
National Institute for Certification in Engineering Technologies (NICET)

ASTM International (ASTM)

ASTM C1077	Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation
ASTM D3665	Standard Practice for Random Sampling of Construction Materials
ASTM D3666	Standard Specification for Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials

END OF ITEM C-100

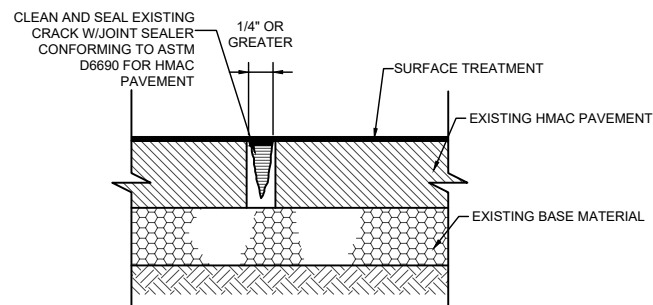
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NOTES:

1. PROVIDE 1-1/2" DROP OFF FROM TOP OF PAVEMENT TO ADJACENT FINISHED GRADE AT EDGE OF ALL PAVEMENT CONSTRUCTED IN THIS PROJECT. EDGE DROP MAY BE LESS IF GRADES DON'T ALLOW FOR 1-1/2" OF DROP.
2. SHOULDER GRADE MAY BE REDUCED IF -3% SLOPE CANNOT BE ACHIEVED.

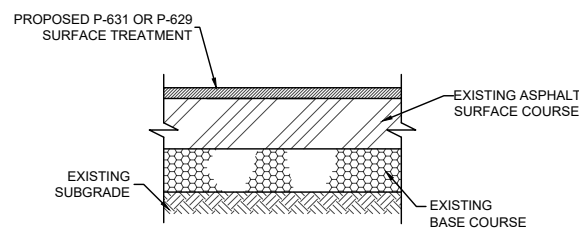
1 PAVEMENT LIP DETAIL
N.T.S.



CRACK TREATMENT GENERAL NOTES:

1. ALL CRACKS IDENTIFIED BY THE ENGINEER'S PROJECT REPRESENTATIVE (1/4" WIDE OR LARGER) SHALL IDENTIFY CRACKS TO RECEIVE TREATMENT AT BEGINNING OF EACH DAY'S WORK.
2. IMMEDIATELY AFTER SAWING / ROUTING, THE RESULTING DEBRIS SHALL BE COMPLETELY REMOVED FROM THE CRACK AND ADJACENT AREA WITH A HOT AIR LANCE COMBINED WITH OIL AND WATER-FREE COMPRESSED AIR, AND BY USE OF OTHER TOOLS AS NECESSARY. THE CRACK WILL BE ALLOWED SUFFICIENT TIME TO DRY PRIOR TO SEALING.
3. JOINT SEALANT SHALL BE APPLIED TO THE CRACK AND FILLED TO WITHIN 1/8" OF THE SURFACE. THE JOINT SEALANT SHALL NOT BE ALLOWED TO FILL THE CRACK TO OVERFLOWING ON THE SURFACE.
4. CRACKS WILL BE SEALED AS SOON AFTER COMPLETION OF THE PAVEMENT PREPARATION AS FEASIBLE AND BEFORE THE PAVEMENT IS OPENED TO TRAFFIC, INCLUDING CONSTRUCTION EQUIPMENT. THE PAVEMENT TEMPERATURE MUST BE ABOVE 50°F (OR MANUFACTURER RECOMMENDATIONS) AT THE TIME OF INSTALLATION OF THE HOT-APPLIED CRACK SEALING MATERIAL.
5. THE CRACK SEALANT WILL BE APPLIED UNIFORMLY SOLID FROM BOTTOM TO TOP AND WILL BE FILLED WITHOUT FORMATION OF ENTRAPPED AIR OR VOIDS. THE SEALANT SURFACE WHEN COMPLETE WILL BE 1/4-INCH AND 3/8-INCH BELOW THE PAVEMENT SURFACE. A DIRECT CONNECTING PRESSURE TYPE EXTRUDING DEVICE WITH NOZZLES SHAPED FOR INSERTION INTO THE JOINT WILL BE PROVIDED. ANY SEALANT SPILLED ON THE SURFACE OF THE PAVEMENT WILL BE REMOVED IMMEDIATELY.
6. THE USE OF A BACKER ROD MATERIAL OR BOND BREAKER IN THE BOTTOM OF THE CRACK TO BE FILLED MAY BE REQUIRED TO CONTROL THE DEPTH OF THE SEALANT, TO ACHIEVE THE DESIRED SHAPE FACTOR, RESERVOIR WIDTH TO DEPTH RATIO, OR TO SUPPORT THE SEALANT AGAINST INDENTATION AND SAG. BACKER ROD MATERIALS SHALL BE BOTH NON-REACTIVE AND NON-ADHESIVE TO THE PAVEMENT OR THE SEALANT MATERIAL, SHOULD BE COMPRESSIBLE WITHOUT EXTRUDING THE SEALANT, AND SHOULD RECOVER TO MAINTAIN CONTACT WITH THE CRACK FACES WHEN THE CRACK IS OPEN. THE BACKER ROD MATERIAL SHALL HAVE A WATER ABSORPTION OF NOT MORE THAN 5% WHEN TESTED IN ACCORDANCE WITH ASTM C509. THE BACKER-ROD MATERIAL SHALL BE 25% ± 5% LARGER IN DIAMETER THAN THE NOMINAL WIDTH OF THE CRACK. THE COST OF THE BACKER ROD SHALL BE CONSIDERED SUBSIDIARY TO THE CRACK FILL INSTALLATION.
7. QUANTITIES FOR PROPOSED CRACK REPAIR ARE AN ESTIMATE ONLY. PAYMENT SHALL BE MADE AT CONTRACT UNIT PRICE PER LINEAR FOOT, NO ADJUSTMENT WILL BE MADE TO UNIT PRICES IF THE ACTUAL QUANTITY OF CRACK REPAIR VARIES FROM THAT SHOWN IN THE PROPOSAL.

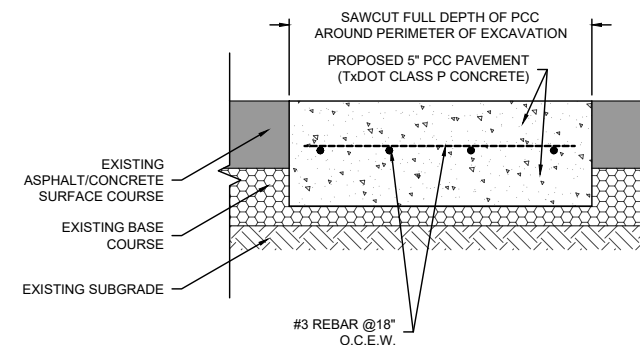
2 CRACK TREATMENT DETAIL
N.T.S.



NOTES:

1. PRIOR TO THE APPLICATION OF THE PAVEMENT REHABILITATION SURFACE COURSE, THE CONTRACTOR SHALL REMOVE ALL VEGETATION THAT HAS ENCRONCHED ON THE EDGES OF THE PAVEMENT. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THE BID ITEM.
2. CONTRACTOR SHALL SEAL ALL CRACKS IN ACCORDANCE WITH HMAC PAVEMENT CRACK TREATMENT DETAIL ON THIS SHEET.
3. CONTRACTOR SHALL SWEEP/VACUUM ALL LOOSE AGGREGATE FROM THE PAVEMENT SURFACES BEFORE APPLYING THE PAVEMENT REHABILITATION.

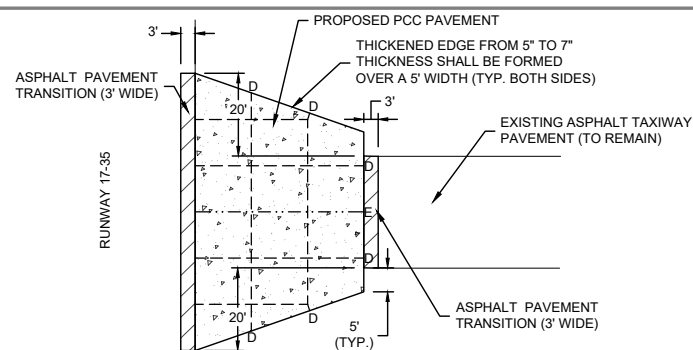
3 PAVEMENT REHABILITATION DETAIL
N.T.S.



FULL-DEPTH PAVEMENT REPAIR NOTES:

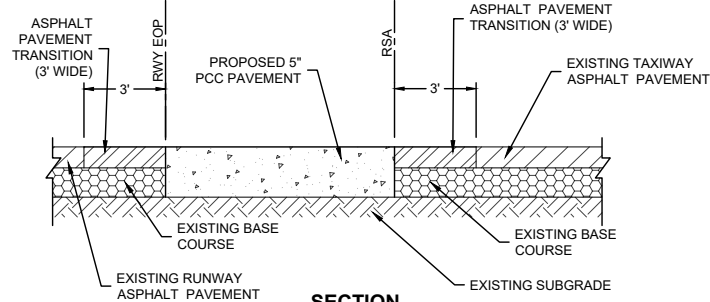
1. PAYMENT FOR FULL-DEPTH PCC PAVEMENT REPAIR SHALL BE BY THE NUMBER OF SQUARE YARDS OF PAVEMENT REPAIRED AND ACCEPTED BY THE ENGINEER. THERE WILL BE NO SEPARATE PAYMENT FOR THE INDIVIDUAL ITEMS OF CONSTRUCTION.
2. SAWCUTTING BASE COURSE AND PCC PAVEMENT SHALL BE CONSIDERED SUBSIDIARY TO THE FULL DEPTH PAVEMENT REPAIR ITEM.
3. PROPOSED PCC PAVEMENT SHALL BE 5" (TXDOT CLASS P CONCRETE)
4. CONTRACTOR SHALL ENSURE THAT SUBGRADE MEETS COMPACTION REQUIREMENTS PER SPECIFICATION P-152 PRIOR TO PLACEMENT OF HMAC PAVEMENT.
5. PCC PAVEMENT SHALL BE CONTINUOUSLY REINFORCED.

4 FULL-DEPTH PCC PAVEMENT REPAIR DETAIL
N.T.S.

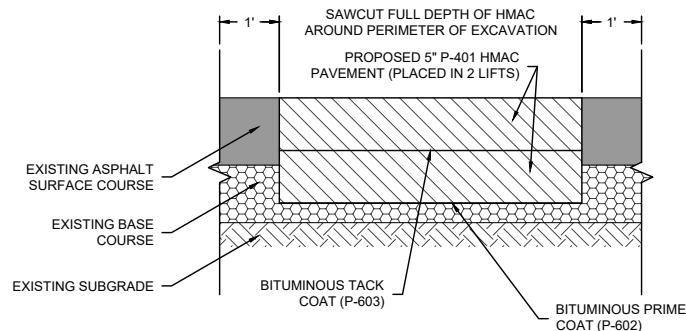


STEEL NOTE:

ALL CONCRETE PAVEMENT SHALL CONTAIN 0.05% DEFORMED STEEL IN BOTH DIRECTIONS. STEEL SPACING SHALL NOT EXCEED 18 INCHES. STEEL SHALL BE POSITIONED MID SLAB ON CHAIRS. BOTH END AND SIDE LAPS SHALL BE NOT LESS THAN 20 TIMES THE DIAMETER OF THE BARWIRE OR 6 INCHES, WHICHEVER IS GREATER. END AND SIDE CLEARANCE SHALL BE A MINIMUM OF 2 INCHES.



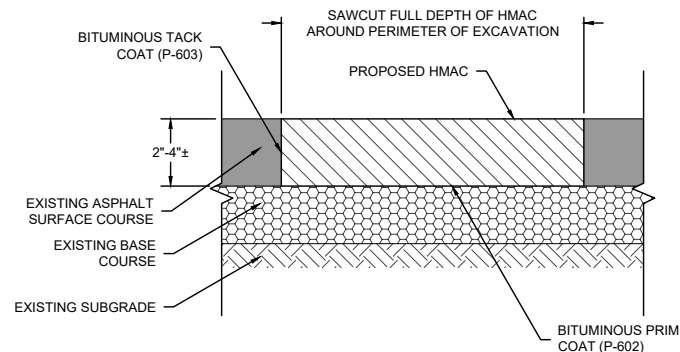
5 TAXIWAY PCC REPLACEMENT LAYOUT
N.T.S.



FULL-DEPTH PAVEMENT REPAIR NOTES:

1. PAYMENT FOR FULL-DEPTH PAVEMENT REPAIR SHALL BE BY THE NUMBER OF SQUARE YARDS OF PAVEMENT REPAIRED AND ACCEPTED BY THE ENGINEER. THERE WILL BE NO SEPARATE PAYMENT FOR THE INDIVIDUAL ITEMS OF CONSTRUCTION.
2. SAWCUTTING OF 1\"/>

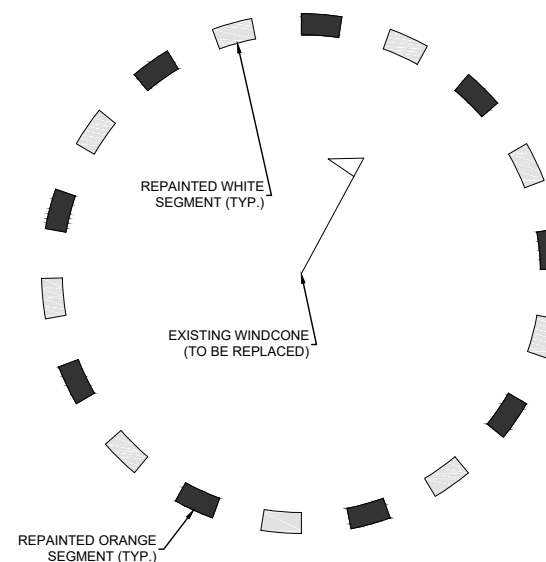
6 FULL-DEPTH PAVEMENT REPAIR DETAIL
N.T.S.



PARTIAL-DEPTH PAVEMENT REPAIR NOTES:

1. PAYMENT FOR PARTIAL-DEPTH PAVEMENT REPAIR SHALL BE BY THE NUMBER OF SQUARE YARDS OF PAVEMENT REPAIRED AND ACCEPTED BY THE ENGINEER. THERE WILL BE NO SEPARATE PAYMENT FOR THE INDIVIDUAL ITEMS OF CONSTRUCTION.
2. ALL WORK SHOWN SHALL BE CONSIDERED SUBSIDIARY TO THE FULL DEPTH PAVEMENT REPAIR ITEM.
3. PROPOSED HMAC 5\"/>

7 PARTIAL-DEPTH PAVEMENT REPAIR DETAIL
N.T.S.



NOTES:

1. CONTRACTOR SHALL REMOVE PAINT FROM THE EXISTING SEGMENTS VIA SAND BLASTING OR HIGH-PRESSURE WATER BLASTING AND REPAINT THE SEGMENTS WITH A WATERBOURNE COLORFAST ORANGE OR WHITE COLOR PAINT.
2. BEFORE APPLYING ORANGE OR WHITE PAINT TO EACH SEGMENT, THE CONTRACTOR SHALL GRADE ALONG THE EDGE OF EACH SEGMENT TO REMOVE ANY OVERGROWN GRASS AND ACCUMULATION OF SOIL ALONG THE EDGES, ALLOWING FOR EACH SEGMENT TO BE CLEARLY SEEN.
3. PAINT FOR EACH SEGMENT SHALL ALTERNATE BETWEEN WHITE SEGMENTS AND ORANGE SEGMENTS.

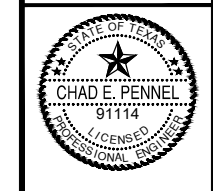
8 EXISTING SEGMENTED CIRCLE REPAIR
N.T.S.

REVISED DETAIL 2 PER ADDENDUM #1	2/18/21
MARK	REVISION
DATE	DATE

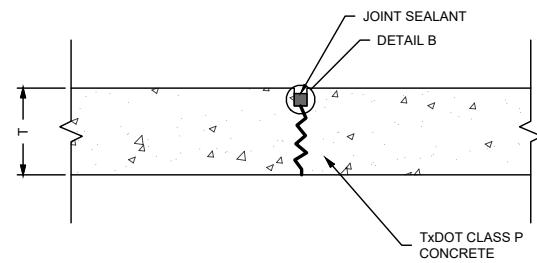
PROJECT NAME: MUNDAY MUNICIPAL AIRPORT RUNWAY REHABILITATION / LIGHTING PROJECT MUNDAY, TEXAS
DRAWING PATH NAME: LAYOUT_PLOT DATE: TIME

PROJECT NAME: MUNDAY MUNICIPAL AIRPORT RUNWAY REHABILITATION / LIGHTING PROJECT MUNDAY, TEXAS

DRAWN BY:	MAB
DESIGNED BY:	CEP
LATEST REVISION:	2/18/2021
KSA JOB NO.:	MUN.001



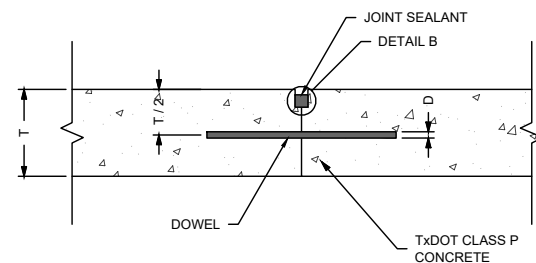
2/18/2021
SEAL: TBPE Firm Registration No. F-1356
SHEET NO. C11



TYPE-D DUMMY CONTRACTION JOINT NOTES:

- GROOVE MUST BE FORMED BY SAWING.
- STEEL DOWELS SHALL HAVE A DIAMETER OF 3/4", A LENGTH OF 18", AND A SPACING OF 12".

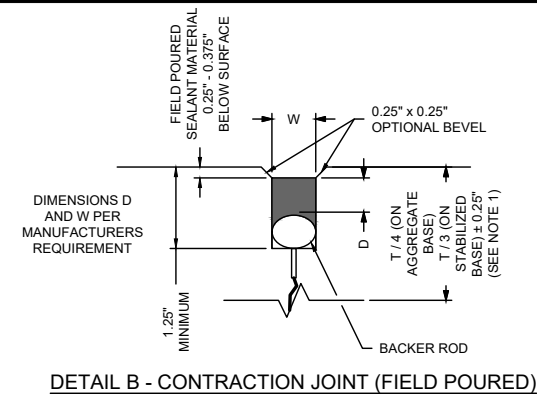
1 **TYPE-D DUMMY CONTRACTION JOINT DETAIL**
N.T.S.



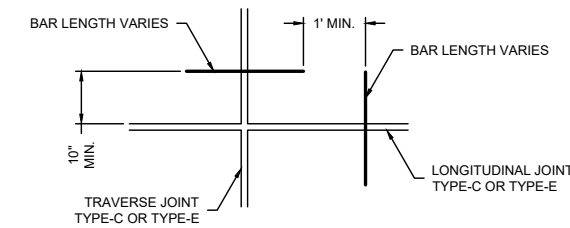
TYPE-E DOWELED CONSTRUCTION JOINT NOTE:

- GROOVE MUST BE FORMED BY SAWING.
- STEEL DOWELS SHALL HAVE A DIAMETER OF 3/4", A LENGTH OF 18", AND A SPACING OF 12".

2 **TYPE-E DOWELED CONSTRUCTION JOINT DETAIL**
N.T.S.



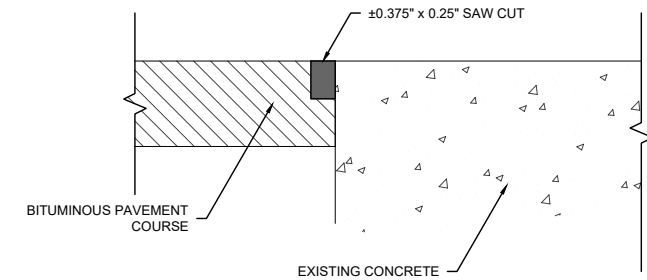
DETAIL B - CONTRACTION JOINT (FIELD Poured)



PLAN VIEW - POSITION OF DOWELS AT EDGE OF JOINT TYPE-C OR TYPE-E

- RIGID PAVEMENT JOINT NOTES:**
- INITIAL SAW CUT T/6 TO T/5 (MINIMUM 1" WHEN USING EARLY ENTRY SAW).
 - FIELD Poured SEALANT RESERVOIR SIZED TO PROVIDE PROPER SHAPE FACTOR, DEPTH (D); WIDTH (W) BASE UPON SEALANT MANUFACTURER REQUIREMENTS. TYPICALLY HOT POUR SEALANTS REQUIRE A 1:1 SHAPE FACTOR AND SILICON SEALANTS A 1:2 SHAPE FACTOR. FOR INDIVIDUAL PROJECTS REFER TO SEALANT MANUFACTURER'S RECOMMENDATIONS.
 - HOLD ALL SEALANTS DOWN 3/8" ON GROOVED RW.

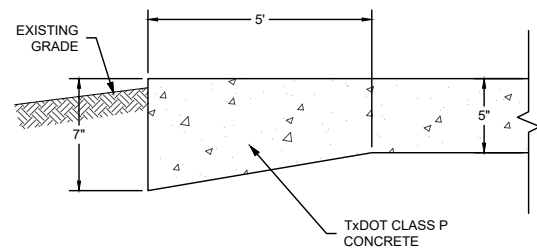
3 **RIGID PAVEMENT JOINT DETAILS**
N.T.S.



HMAC / CONCRETE JOINT SEAL NOTES:

- ±0.375" x 0.25" SAW CUT RECESSED 0.375" BELOW SURFACE. FILL WITH ASTM D3405 (P-605) JOINT SEALER TYP. ALL EDGES OF BITUMINOUS SURFACE COURSE AND CONCRETE. RECESS SEALANT 0.25" BELOW SURFACE.

4 **HMAC / CONCRETE JOINT SEAL DETAIL**
N.T.S.



TYPE-A THICKENED EDGE ISOLATION JOINT NOTE:
GROOVE MUST BE FORMED BY SAWING

5 **TYPE-A THICKENED EDGE ISOLATION JOINT DETAIL**
N.T.S.

MARK	REVISION	DATE

REVISED DETAIL 4 PER ADDENDUM #1 2/18/21

PCC JOINT DETAILS

MUNDAY MUNICIPAL AIRPORT RUNWAY REHABILITATION / LIGHTING PROJECT MUNDAY, TEXAS

DRAWN BY:	MAB
DESIGNED BY:	CEP
LATEST REVISION:	2/18/2021
KSA JOB NO.:	MUN.001



2/18/2021
SEAL: TBPE Firm Registration No. F-1356
SHEET NO. **C12**

Airport: Munday Municipal Airport

Organizer: KSA Engineers, Inc.

Date: Thursday, February 11th, 2021

KSA Project No.: MUN.001

Project: Runway Paving and Lighting Improvements

Client Project No.: 2025MUNDY

I. **Sign In Sheet**

II. **Introductions and Roles**

- A. David Trevino, City Manager, Munday, TX
- B. Paul Slusser, Project Manager, TxDOT Aviation
- C. Chad Pennel, Project Manager, KSA
- D. Jeremy Bostock, Project Designer, KSA

III. **Bidding Procedures**

- A. See Notice to Bidders and Instructions to Bidders section in Contract Documents for bidding information.
- B. All bidders are encouraged to review all contract documents including Mandatory Federal Contract Provisions, TxDOT General Provisions, Special Provisions, and Project Specifications.
- C. Technical questions/comments should be submitted to Chad Pennel, (cpennel@ksaeng.com or 972.542.2995) or Jeremy Bostock, (jbostock@ksaeng.com 972.542.2995). Questions must be in writing and received prior to date mentioned.
- D. For bid document questions or other information visit the TxDOT Aviation website or call TxDOT, Kelle Chancey at 512-416-4514.
- E. Sealed bids for the construction of airport improvements at the Munday Municipal Airport are to be delivered to David Trevino, City Manager, City Hall, City of Munday, 121 E. Main St. Munday, TX 76371 by Thursday February 25th, 2021, at 2:30 p.m. At that time, bids will be publicly opened and read aloud. Any bid received after closing time will be returned unopened.
- F. Bid Proposal
 - 1. Bidders must utilize the bid proposal form provided on TxDOT's website.
 - 2. Bidders must provide pricing for both the Base Bid and All Additive Alternate Bids. The contract award will be based on the lowest qualified bid.
- G. Each bid should be furnished with a Bidder Qualifications as stated in the Contract Documents.
- H. Bidder shall reference the Aviation Division General Construction Contract Provisions.
 - 1. <http://txdot.gov/inside-txdot/division/aviation/general-provisions.html>
- I. Contract will be awarded within 60 calendar days from bid opening.

- J. TxDOT Grant funded project
 - 1. The HUB Goal per statewide HUB goal at 11.2%
 - 2. Hub Subcontracting Plan (HSP) is required.
 - 3. Wage rate requirements will be required as shown in the Contract Documents.
- IV. **Scope of Work**
 - A. Base Bid and Alternates
 - 1. Base Bid: Runway Rehabilitation and Edge Lighting
 - 2. Additive Alternate 1: Replace Wind Cone and Beacon
 - 3. Additive Alternate 2: Runway Shoulder Grading
 - 4. Additive Alternate 3: Use of P-629 in lieu of P-631
 - B. Contractor are welcome to perform their own site investigation. Coordinate with David Trevino.
- V. **Site Access / Staging Areas**
 - A. Access/Staging will be as shown in the plans.
- VI. **Construction Safety and Phasing Plan**
 - A. Contractor will be required to be in compliance with FAA Advisory Circular 150/5370-2F, Operational Safety on Airports During Construction.
 - 1. Phase 1: South End of Runway (all work except seal coat and marking)
 - 2. Phase 2: North End of Runway (all work except seal coat and marking)
 - 3. Phase 3: Seal Coat and Marking
 - B. Safety Plan Compliance Document will be required by the Contractor
- VII. **Other Information**
 - A. Contract Time
 - 1. **105 Calendar Days**
 - 2. **No additional days for Additive Alternates**
 - 3. Liquidated Damages are \$1,000 per calendar day
 - B. RPR/Engineer Office is not required. See KSA-100 for equipment requirements.
 - C. Materials Acceptance by Owner / Materials Quality Control by Contractor

CITY OF MUNDAY, TEXAS
MUNDAY MUNICIPAL AIRPORT
RUNWAY REHABILITATION AND LIGHTING

TxDOT CSJ NO. 2025MUNDY
Pre-Bid Conference
Munday City Hall
Thursday February 11th, 2021, 2:30 p.m.



	Name	Company	Email	Office Phone	Office Fax	Present	Call-In
1.	David Trevino	City of Munday	citymanager@mundaytexas.com	940.422.4331		✓	
2.	Chad Pennel, P.E.	KSA Engineers Inc.	cpennel@ksaeng.com	972.542.2995	888.224.9418	✓	
3.	Jeremy Bostock	KSA Engineers Inc.	jbostock@ksaeng.com	972.542.2995	888.224.9418		
4.	Paul Slusser	TxDOT - Aviation Division	paul.slusser@txdot.gov	512.416.4527	512.415.4510		✓
5.	Ed Goodreau	O. Trevino Const.	ed@oteconst.com	817-291-0035			
6.	Bryan Meers	Little MFG	LittleMFG@LittleMFG.com	325-725-1033			
7.	Jerry Little			325-331-8117			
8.	Ryan Cottingham	City of Munday	ryan@pettyflying.com	422-4511			
9.	Lyndle Reeves	City of Munday	lyndle.reeves@g02fbt.com	940-422-4522	940-422-4467	✓	
10.							
11.							
12.							
13.							