

STEELE MUNICIPAL AIRPORT CITY OF STEELE, MISSOURI

ADDENDUM NO. 1

for

State Project No. AIR 166-081B

OVERLAY AND REACTIVATE PARALLEL TAXIWAY AND END
CONNECTOR; CONSTRUCT NEW HANGAR TAXILANE; REHABILITATE
MID-FIELD CONNECTOR; REINSTALL AIRFIELD ROTATING BEACON

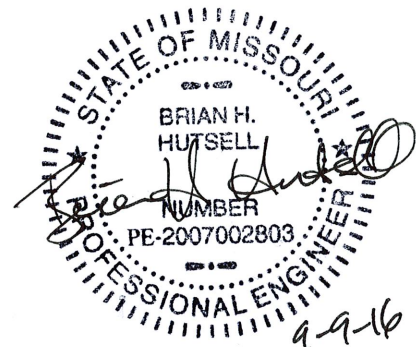
SEPTEMBER 9, 2016

Prepared By:



Crawford, Murphy & Tilly
Consulting Engineers
St. Louis, Missouri

16486-01-00



ADDENDUM NO. 1
OVERLAY AND REACTIVATE PARALLEL TAXIWAY AND END CONNECTOR;
CONSTRUCT NEW HANGAR TAXILANE; REHABILITATE MID-FIELD CONNECTOR; REINSTALL AIRFIELD
ROTATING BEACON ON NEW TIP-DOWN POLE

This addendum is herewith a part of the Contract Documents of the above issued project, and is issued to amend and supplement the August 12, 2016 construction plan drawings, proposal, contract documents, and specifications.

The **CONTRACT DOCUMENTS** are revised as follows:

SECTION 1 – NOTICE TO BIDDERS

REVISE: Contract Work Items

Revise Item 15 to 217 LF

Revise Item 16 to 6 EA

Revise Item 20 to 0.9 AC

Revise Item 21 to 0.9 AC

Revise Item 24 to 44 EA

PROPOSAL FORM

DELETE: Proposal Form

ADD: Attached Proposal Form

CLARIFICATION: Quantities revised for Items 15, 16, 20, 21 and 24. **Fill out the revised Proposal Form and include with the remainder of the Project Manual when submitting your bid.**

The **CONSTRUCTION PLANS** are revised as follows:

SHEET 2 OF 17 – SUMMARY OF QUANTITIES

REVISE: Summary of Quantities, Eligible Quantity

Revise Item MO-701-5.1 to 217 LF

Revise Item MO-701-5.2 to 6 EA

Revise Item MO-901-4.1 to 0.8 AC

Revise Item MO-908-4.1 to 0.8 AC

Revise Item MO-125-5.1 to 44 EA

SHEET 3 OF 17 – SITE PLAN/PROPOSED IMPROVEMENTS

DELETE: Sheet 3 of 17

ADD: Attached revised Sheet 3 of 17

CLARIFICATION: Approximate location of the borrow area is shown, as well as the haul path. The haul path to the waste millings placement area is also shown.

SHEET 10 OF 17 – GRADING AND DRAINAGE PLAN

DELETE: Sheet 10 of 17

ADD: Attached revised Sheet 10 of 17

CLARIFICATION: A second, parallel 10" CMP with flared end sections is added to cross the end connector at approximate station 1004+80.

REVISED PROJECT MANUAL SHEETS

PROPOSAL FORM
CITY OF STEELE, MISSOURI
Project No. **AIR 166-081B**

TO: City Clerk

The undersigned, in compliance with the request for bids for construction of the following Project:

OVERLAY AND REACTIVATE PARALLEL TAXIWAY AND END CONNECTOR; CONSTRUCT NEW HANGAR TAXILANE; REHABILITATE MID-FIELD CONNECTOR; REINSTALL AIRFIELD ROTATING BEACON ON NEW TIP-DOWN POLE:

hereby proposes to furnish all labor, permits, material, machinery, tools, supplies and equipment to faithfully perform all work required for construction of the Project in accordance with the project manual, project drawings and issued Addenda within the specified time of performance for the following prices:

BASE BID							
BID ITEM	FAA or MoDOT SPEC.	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		EXTENSION	
				DOLLARS	CTS	DOLLARS	CTS
1	MO-100	Mobilization	1 Lump Sum				
2	MO-152	Unclassified Excavation	400 CY				
3	MO-156	Silt Fence	900 LF				
4	MO-209	4" Crushed Aggregate Base Course	2,546 SY				
5	MO-401S	Mineral Aggregate (BP-1 Mix)	904 Tons				
6	MO-401S	Asphalt Cement (BP-1 Mix)	47.5 Tons				
7	MO-601	Bituminous Milling	1,040 SY				
8	MO-601	Removal of Delaminated Overlay	1,078 SY				
9	MO-601	Removal of Open Graded Aggregate Roadway	634 SY				
10	MO-602	Bituminous Prime Coat	789 GAL				
11	MO-603	Bituminous Tack Coat	455 GAL				
12	MO-620	Airport Taxiway Pavement Marking (Yellow)	1,102 SF				
13	MO-620	Airport Pavement Marking (Black)	528 SF				
14	MO-620	Airport Pavement Marking Removal	403 SF				
15	MO-701	10" Corrugated Metallic- Coated Steel Pipe	<u>217</u> LF				

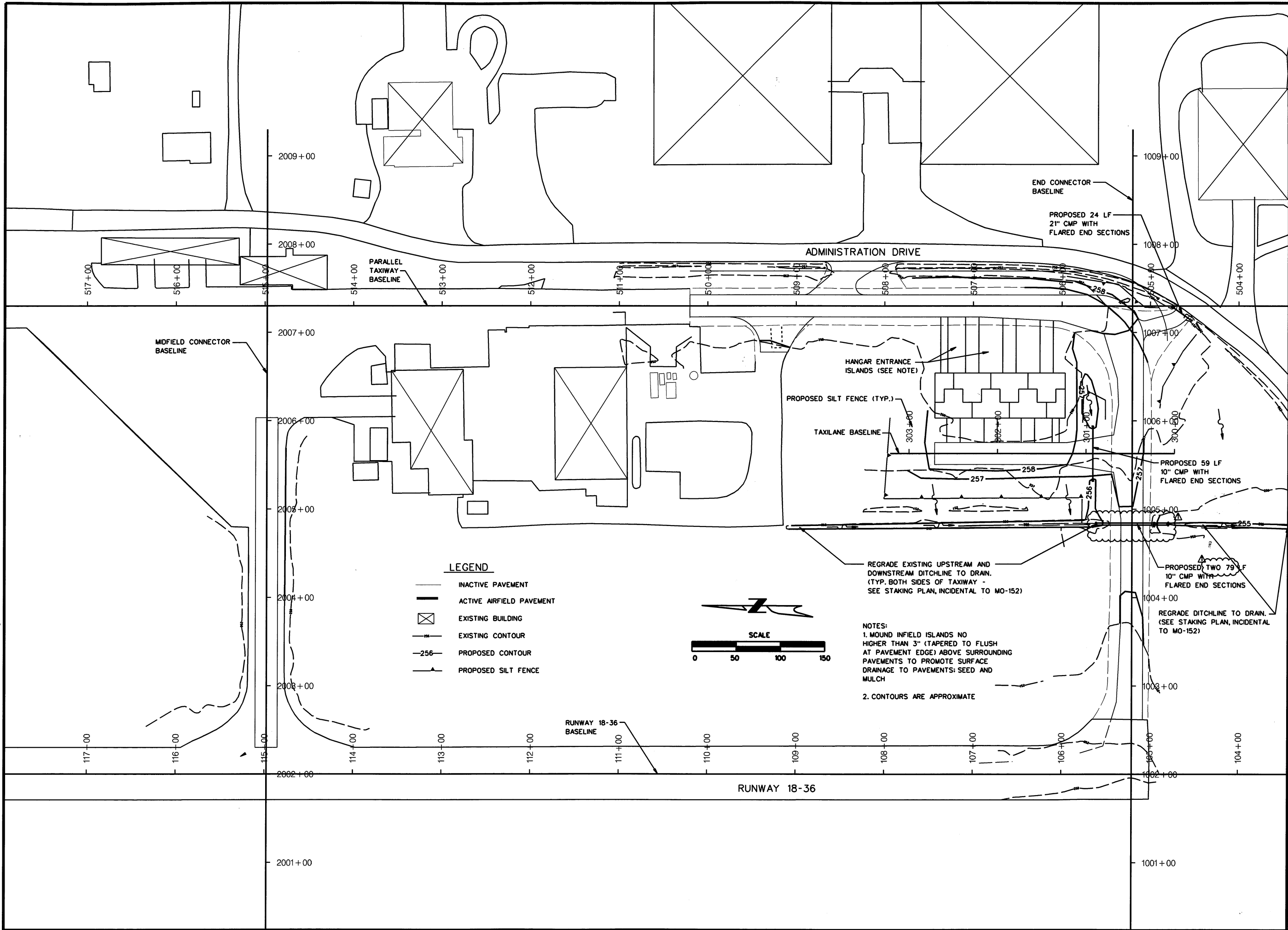
16	MO-701	10" Corrugated Metallic-Coated Flared End Section	6 EA				
17	MO-701	21" Corrugated Metallic-Coated Steel Pipe	24 LF				
18	MO-701	21" Corrugated Metallic-Coated Flared End Section	2 EA				
19	MO-701	Remove Existing CMP Pipe	75 LF				
20	MO-901	Airport Seeding	0.9 AC				
21	MO-908	Airport Mulching	0.9 AC				
22	MO-103	Existing Beacon Tower Removal	1 LS				
23	MO-103	Beacon Tower; Relocate Existing L-801 Beacon Light	1 LS				
24	MO-125	L-853 Taxiway Edge Reflectors, Stake Mounted (Blue)	44 EA				
25	MO-125	L-858 Unlighted Runway Hold Sign, (Size 1, Style 4)	1 EA				
26	SP-1	Subgrade Stabilization	1,040 SY				
27	SP-2	Butt Joints	70 SY				
28	SP-3	Roadway Sign	5 EA				
TOTAL BID (Base Bid)							

ACKNOWLEDGEMENTS BY BIDDER

- a. By submittal of a proposal, the BIDDER acknowledges and accepts that the quantities established by the OWNER are an approximate estimate of the quantities required to fully complete the Project and that the estimated quantities are principally intended to serve as a basis for evaluation of bids. The BIDDER further acknowledges and accepts that payment under this contract will be made only for actual quantities and that quantities will vary in accordance with the General Provisions subsection entitled "Alteration of Work and Quantities".
- b. The BIDDER acknowledges and accepts that the Bid Documents are comprised of the documents identified within the General Provisions. The BIDDER further acknowledges that each the individual documents that comprise the Bid Documents are complementary to one another and together establishes the complete terms, conditions and obligations of the successful BIDDER.
- c. As evidence of good faith in submitting this proposal, the undersigned encloses a bid guaranty in the form of a certified check, cashier's check or bid bond in the amount of 5% of the bid price. The BIDDER acknowledges and accepts that refusal or failure to accept award and execute a contract within the terms and conditions established herein will result in forfeiture of the bid guaranty to the owner as a liquidated damage.
- d. The BIDDER acknowledges and accepts the OWNER'S right to reject any or all bids.
- e. The BIDDER acknowledges and accepts the OWNER'S right to hold all Proposals for purposes of review and evaluation and not issue a notice-of-award for a period not to exceed **ninety (90)** calendar days from the stated date for receipt of bids.

REVISED CONSTRUCTION PLAN SHEETS

9/9/2016
K:\SteeleMOAp\16458-01_Taxiway\Draw\Sheets\010_Prop_Grade_Drain.dgn



REVISIONS		
NUMBER	BY	DATE
1	BHH	9/9/16

0 1 2
THIS BAR IS EQUAL TO 2"
AT FULL SCALE (34X22).

STEELE MUNICIPAL AIRPORT
1051 ADMINISTRATION DRIVE
STEELE, PEMISCOT COUNTY, MO 63877

PARALLEL TAXIWAY OVERLAY; NEW BEACON TOWER
HANGAR TAXILANE; MIDFIELD CONNECTOR REHAB

CMT
Copyright CMT, Inc. 11111 S. SUITE 500 ST. LOUIS, MO 63102
PH 314.438.5000 WWW.CMT-ENG.COM
PROFESSIONAL ENGINEERING - 000031

STATE PROJECT NO. AIR 166-081B

FILE: 010_Prop_Grade_Drain.dgn
DESIGN BY: BHH
DRAWN BY: BHH
CHECKED BY: BWG
APPROVED BY: TCS
DATE: AUGUST 12, 2016
JOB No: 16-458-01-00

GRADING AND DRAINAGE PLAN

SHEET 10 OF 17 SHEETS

ACKNOWLEDGEMENT

Each bidder shall acknowledge receipt of this **Addendum No. 1** of ***OVERLAY AND REACTIVATE PARALLEL TAXIWAY AND END CONNECTOR; CONSTRUCT NEW HANGAR TAXILANE; REHABILITATE MID-FIELD CONNECTOR; REINSTALL AIRFIELD ROTATING BEACON ON NEW TIP-DOWN POLE*** by his/her signature affixed hereto, and shall attach this Addendum to the original bid.

CERTIFICATION BY BIDDER

SIGNATURE _____

TITLE _____

COMPANY _____

DATE _____

FAX TRANSMITTAL

To: Crawford, Murphy & Tilly, Inc

Attention: Brian Hutsell

Re: Addendum #1

Fax 314.436.0723

From:

(name)

(company)

Date:

To verify that all contractors are in receipt of this addendum, Contractors are asked to sign and date this acknowledgement sheet. The Contractor should fax or mail to Crawford, Murphy, & Tilly, Inc. at the number listed below by **September 12, 2016**.

Crawford, Murphy, & Tilly, Inc.
One Memorial Drive, Suite 500
Saint Louis, Missouri 63102

Fax: (314) 436-0723

Phone: (314) 436-5500

BY: CRAWFORD, MURPHY, & TILLY, INC.

**Pre-Bid Meeting
Steele Municipal Airport
Overlay and Reactivate Parallel Taxiway and End Connector;
Construct New Hangar Taxiway; Rehabilitate Mid-Field Connector;
Reinstall Airfield Rotating Beacon on New Tip-Down Pole
Project No. AIR 166-81B**

September 2, 2016 - 10:00 AM

Minutes/Additions/Revisions in red italics

→ **Introductions / Sign-in sheet**

Brian Hutsell (CMT, Inc.) welcomed the attendees. Introductions were made. Those attending can be found on the attached sign-in sheet.

→ **Bids**

→ Due Wednesday, 9/14/16 at The City of Steele City Hall – 1:00 PM prevailing Central Time

→ DBE Goal is 0%

MoDOT's Department of Civil Rights is still interested in any DBE activity on any project, even with 0% goals, as they count toward the state's overall goal. A final report of DBE activity will still be required for this project.

→ Wage Rates – State Rates apply (Airport is located in Pemiscot County) *Use Missouri DOL Annual Wage Order No. 23 (7/22/16 Update)*

→ Submit as part of the bid the following:

- Entire **Bound** White Project Manual (Spec Book)
Addendums will be inserted into the manual. Add to the manual if required, don't remove anything.
- Bid Bond
- Missouri Domestic Product Preference (pg. 62-63) – *Less stringent than Buy American*
- Addendum Receipt page (pg. 80)
Note receipt of Addendum No. 1 – also fax/email the receipt from the last page of the addendum so that the engineer can be sure all parties have the most recent documents.
- E-Verify (pg. 82)
Include documents detailed at the bottom of the page – The E-Verify Memorandum of Understanding cover letter and signature page, at a minimum.
- Proper Signatures on last page of Proposal Form (pg. 83)

→ Addendum No. 1 will be issued on or before September 9, 2016 by e-mail, fax and hard copy (if needed) - Need any questions by September 7th at 5 PM.

→ **Contractor's Operational Requirements**

→ Get familiarized with Construction Safety and Phasing Plan (CSPP) and FAA AC150/5370-2F – Operational Safety on Airports During Construction

Smaller airports are more likely to have pilots operating without radio contact. Keep your eyes open.

→ Contractor's Safety Plan Submittal/Safety Plan Compliance Document

Give the City, Airport and Engineer a plan of how you intend to proceed with the work safely, responsible parties, contact information, etc.

- All Vehicles and Equipment Shall Have Airport Orange and White Flags (multi-directional orange strobes are acceptable)
- Contractor to provide Airport Radios for key personnel – stay in contact with pilots in air/on ground.

- Personnel with Airport Radios should have a way to communicate with all personnel

- Contractor to provide barricades as shown in the plans.

Low profile barricades required where aircraft are expected to be operating. Standard folding barricades may be acceptable in other areas. Approval for folding barricades will be given per requested location.

- Contractor shall provide three days notice before doing any work on the airfield.

Mike Lee, Airport Manager will be responsible for issuing all NOTAMs.

- Contractor shall provide anticipated schedule of work prior to the start of construction.

- All workers and equipment shall be clear of the Runway Hold Lines while the runway is active. Closure Xs and proper NOTAMs issued when runway is closed for work within the Runway Safety Area (RSA).

→ Plans/Specifications

- Site Access/Staging Area – discussion

- Existing access from I-55 to Hwy 164 to Administration Drive.
 - Staging shown on graveled area near existing electrical vault and beacon.
 - Direct access to pavements to be overlain/reconstructed.

- Proposed Improvements

- Delaminated Asphalt Removal
 - Care should be taken to keep area affected to a minimum – area shown in the plans is approximate. Sound overlay pavements should remain. ***Possibly hand removals at perimeter of removals, skid steer blade within area.***
- Aggregate Roadway Removal
 - Loose/Open graded aggregate in areas of roadways to be paved will need to be removed as necessary to build 3” HMA/4” MO-209 structure.
 - Aggregate waste area to be identified today and in addendum.
 - Clean rock vs. Rock/Soil Mixture ***Clean aggregate will be stockpiled on existing gravel lot adjacent to site, soil/rock mixture will be stockpiled at the waste millings area as shown on the abandoned taxiway.***
- Corrugated Metal Pipe Replacement/Installation; Ditch Regrade
 - Remove aggregate/lower layers of asphalt as necessary to remove/install ***two*** new CMP under end connector and ***one under*** access roadway. Replacement of material to existing elevation is incidental to pipe installation.
 - New CMP beneath new hangar taxilane.
 - Regrade midfield ditch to drain. Modify ditch staking plan if necessary.
- Embankment for T-Hangar Taxilane
 - Borrow site to be determined today and included in addendum. ***Shown in addendum, west on farm road prior to entering airport. Borrow area to be seeded/mulched at completion of project. Quantities revised.***
- Midfield Connector Asphalt Milling/Butt Joints
 - Sawcuts will be necessary at the ends of the milling area, at a minimum. Vertical edges should remain around the perimeter of the area milled. If the milling machine cannot produce an acceptable vertical edge at along the milled path, additional saw cuts may be required.
 - Actual millings area will be determined in the field – likely determined by bid prices and budget.

- Millings stockpiled on abandoned taxiway, as shown in plans. **Note haul distance.**
- Midfield Connector Excavation and Stabilization
 - Existing base/asphalt mixture will be removed in order to allow for 8" crusher run, 4" MO-209 and 3" MO-401S pavement structure.
 - Waste area will be identified today and in the addendum. *Identified during meeting and in addendum, west on farm road prior to entering airport – same site as borrow area..*
 - Geosynthetic fabric placed, 8" of compacted crusher run to stabilize area.
 - Actual stabilization area will be determined in the field. Will be minimized if possible.
- MO-209 Aggregate Base
 - 4" layer of Type 5 Aggregate, from MoDOT approved ledges
- Asphalt Overlay/Construction
 - MO-401S (BP-1 Mix)
 - Nominal 2" in pure overlay areas
 - Nominal 3" in full depth construction and delaminated areas
- Marking/Marking Removals.
 - Existing closure X removal - avoid damaging the asphalt pavements during the marking removal process. If excessive damage occurs, the Engineer reserves the right to request an alternate removal process/pavement repairs.
 - Pick up all wastes for disposal.
 - Two separate paint applications – 1st coat at a 25% application rate minus glass beads, 2nd at 100% of application rate. Time between coats shall be a minimum of 30 days.
 - Dependent on actual timeframe of first application, a change order may be issued to increase the 25% rate and add beads in the event that weather restrictions delays the final coat into the spring of 2017.
 - Review the tolerances for dimensions and spacing, straightness and edge crispness. Use a contractor with the experience and proper equipment to perform the work according to the specifications.
Utilize marking contractors who understand the stringent requirements of FAA/MoDOT aviation specifications.
 - Review the MO-620 specifications, as well as the Federal Paint Specifications (listed under MO-620 Material Requirements) for the acceptable range of wet/dry marking film thicknesses. Avoid excessively thick or thin pavement markings, or they may be subject to removal and replacement at the direction of the Engineer.
 - Only the runway hold line marking receives a black background.
 - All paints but black receive **Type III** glass beads.
- Roadway Signs
 - Install yield and custom information signs as shown to help control vehicular traffic in sensitive airport areas.
 - Refer to MoDOT highway specifications for additional details.
- Taxiway/Taxilane Edge Reflectors
 - Standard L-853 stake mounted edge reflectors (solid blue)
 - 10' from new pavement edges, some will land in existing asphalt. Core these locations prior to driving stake.
- Beacon Tower Replacement
 - New foundation/cabling/conduit to new location from existing disconnect.
 - Due to lead times, tip down tower installation will take place at a later date. All site work shall be performed concurrently with the airfield pavement construction to reduce inspection costs.

- Calendar day suspension until tower is delivered, installed (final cable connections), beacon relocated, existing structural tower removed.

→ Bidding Schedule / Grant Process

- Pre-Bid MeetingSeptember 2, 2016
- Addendum Issuance (If Necessary).....September 9, 2016
- Bid Opening.September 14, 2016
- Award.....September 21, 2016*
- Execute contracts and bondsSeptember 24, 2016*
- Submit shop drawingsSeptember 14-24, 2016*
- Preconstruction Meeting.October 3, 2016*
- Start of Construction.October 3, 2016*
- Substantial CompletionOctober 31, 2016*
- Final Pavement Marking.....November, 2016*
- Pre-Final Inspection.....November, 2016*
- Beacon Tower Final Installation.....February, 2017*
- Final Inspection/Final Completion.....February, 2017*

*Estimated

→ Construction Time Frame

- 30 Consecutive Calendar Days for all work.
- Calendar Days will be charged until all punch list work is complete and final acceptance is given by the City/MoDOT.
- Calendar days will be suspended between substantial completion and the final pavement marking application, and again for the final beacon tower installation. No work allowed while calendar days are suspended, other than erosion control maintenance.
- All punchlist work (and final pavement marking application and final beacon installation and demolition) must be completed within the 30 calendar day schedule.
- Liquidated Damages of \$750 per day for each day over the total number of calendar days allowed. Calendar Day damages will apply to the work requiring airfield pavement closure beyond the first 30 calendar days. This is to cover the extra construction inspection cost of the Engineer and any other revenue generating operations affected by additional closure.

→ Questions / Comments

- **Local only items will be change ordered out of the contract after award.** Winning bidder will work directly with the City/Airport to perform the work outside of the requirements of this contract (wage rates, etc.)

The grading in islands between the entrances to the hangar, is that something we just need to figure out? Yes, it will be built up slightly so that any rainfall is directed back to the surrounding pavements. Gentle humps, no point higher than 3" above the surrounding pavements. There is the potential that the islands are paved as part of the local only item.

The wet August has pushed everyone's asphalt schedules back. Is there any way that the work could be performed in 2017? Possibly one phase in 2016, the other in 2017? The current schedule was built around the agricultural operations at the airport, and they will likely be in full swing in 2017 before asphalt paving is a possibility. It is our preference that all paving

work is completed in 2017, but if it is physically not possible, splitting the work would be entertained. Potentially Phase 1 in 2016, then access will be available if Phase 2 was built in 2017. Performing all work in 2017 likely would be too restrictive for the airport's operations.

The schedule looks pretty ambitious, with only a few weeks between the bid opening and the start of construction? It is, but the October 3rd date is simply the earliest possible start. We're most concerned with the weather at the end of the construction period, so the start date would be set based on your completion date. Calling a special meeting of those responsible for executing contracts can be done at any time after the bid opening, so there are no agenda deadlines, specific meeting dates, etc.

The detail on the milling shows a distressed area to be removed, but the areas on the taxiway looked fairly isolated? There are several distinct areas of failure/pumping in alligator cracked locations. The remainder of the area to be milled is experiencing distress, but not to the same degree. The milling area will be 25', centered on the taxiway, with end locations to be determined in the field. This will attempt to address all areas within the footprint of the eligible taxiway width.

Who is the manufacturer of the existing beacon to be re-used? That will impact the mounting plate on the new pole. The existing shop drawings show an L-801 HBM 150/2 beacon supplied by Flight Light. The beacon is likely sourced from Hali-Brite, Inc.

Pre-Bid Meeting - September 2, 2016 - 10:00 AM

[illegible]

~~950950~~ 950950pr1@gmail.com

ASA Asphalt 29 g. max. Corn

shawon@kochelectricinc.net

darrell.goth@MoDet.mo.gov

mike@earlsfs.com

**STEELE MUNICIPAL AIRPORT
OVERLAY/REACTIVATE PARALLEL TAXIWAY, END CONNECTOR; CONSTRUCT HANGAR TAXILANE;
REHABILITATE MID-FIELD CONNECTOR; REINSTALL BEACON ON NEW TIP-DOWN POLE
PLAN HOLDERS LIST**

CMT Job No. 16458-01

Fee = \$25

PROJECT NO. AIR 166-081B

Last Updated: 9/6/2016

	Company	Contact Name	Qty Plans & Specs	Date Sent
1	City of Steele 115 South Walnut Steele, MO 63877 (P) 573-695-3690	Regina White, City Clerk	1	8/17/2016
2	Missouri AGC Construction News (Eplan) 4115 S. Providence Road, Suite 105 Columbia, MO 65203 (P) 573-634-5574 Email: eplan@eplanbidding.com	Plan Room	1	8/15/2016
3	Builders Association 3632 W. Truman Blvd Jefferson City, MO 65109 (P) 573-893-3307 buildersjc@buildersassociation.com	Plan Room	1	8/15/2016
4	Construct Connect (Online) lucie.campbell@constructconnect.com	Plan Room	1	8/15/2016
5	Steele Municipal Airport 1051 Administration Drive Steele, MO 63877	Mike Lee, Manager	1	8/17/2016
6	MoDOT Multimodal Operations - Aviation 830 MoDOT Drive Jefferson City, MO 65102 (P) 573-526-3619 (F) 573-526-4709	Darrell Goth, Project Manager	1	8/17/2016
7	Memphis Builders Exchange 642 S. Cooper Street Memphis, TN 68104 (P) 901-272-7495 office@memphisbx.com	Plan Room	1	8/15/2016
8	McGraw Hill Construction Dodge/AGC 6330 Knox Industrial Drive, 1st Floor St. Louis, MO 63139 (F) 866-730-6151 dodge_reocsc@mcgraw-hill.com	Plan Room	1	8/15/2016
9	KT Power Systems 433 County Road Cape Girardeau, MO	Joe Koch	1	8/18/2016
10	Jokerst Paving 12132 State Road CC Festus, MO 63028 (P) 314-250-9494	Mark Huber	1	8/18/2016
11	Apex Paving P.O. Box 637 Cape Girardeau, MO	Cecilia Walker	1	8/23/2016
12	ASA Asphalt 20025 ASA Drive Advance, MO 63730 (P) 573-722-3111 (F) 573-722-3666	Sheila	1	8/23/2016

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OVERLAY/REACTIVATE PARALLEL TAXIWAY, END CONNECTOR; CONSTRUCT HANGAR TAXILANE;
REHABILITATE MID-FIELD CONNECTOR; REINSTALL BEACON ON NEW TIP-DOWN POLE
PLAN HOLDERS LIST**

CMT Job No. 16458-01

Fee = \$25

PROJECT NO. AIR 166-081B

Last Updated: 9/6/2016

	Company	Contact Name	Qty Plans & Specs	Date Sent
13	Klimkow Airport Sales 642 Forest Avenue Evanston, IL 60202	Kirk Klimkow	1	8/23/2016
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				