December 12, 2024



Houston Comprehensive Engineering Consultant Contracts – Workflow and Tracking 2024 PEPS Conference

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Why – Background Information



Why – Problem Definition





Why is Tool Needed?

- HOU selected 8 consultants / 5 dedicated to HOU
- Data Review: Ft Worth system
 - Documents scope/level of effort agreement
 - Tracks per assignment
- HOU Tool Purpose
 - Automated task assignment and approval process
 - Contract, work authorization and assignment monitoring and reporting





Task Assignment Monitoring

- PS-CAMS tracks at contract and WA level
- PEPS Invoice Template
 - Provides for invoice by Task
 - > Tracks at WA level
- HOU Tool: Monitor at Task Assignment Level
 - Approve LOE
 - Track invoice effort
 - Identify unused task effort (\$\$) and return to WA

| | | Combine | Provider Invoice No. | WA#-XXX | |
|---|----------------|---------------|----------------------|--------------|--|
| Texas WORK AUTHORIZATION Department FINANCIAL STATUS SUMMARY | | | | | |
| | SR-UC P | ayment Met | hod | | |
| Provider Name: XYZ Consultant Legacy Contract No. | | | | | |
| Provider ID No. | | | | | |
| | Work Authoriza | tion Financia | al Summary | | |
| Authorized Amount | | | | \$500,000.00 | |
| Previous Invoiced Amou | \$100,000.00 | | | | |
| Amount of this Invoice | \$20,000.00 | | | | |
| Total Combined Invoice | \$20,000.00 | | | | |
| Total Invoiced to Date (i | oplicable) | \$120,000.00 | | | |
| Balance Remaining | - | | | \$380,000.00 | |

| Assignment 005 | | | | | | | |
|----------------|----|------------|----|-----------|----|------------|--|
| | | Assigned | | Invoiced | | Remaining | |
| Prime | \$ | 63,465.66 | \$ | 26,583.08 | \$ | 36,882.58 | |
| Sub1 | \$ | 83,604.58 | \$ | 33,190.61 | \$ | 50,413.97 | |
| Sub2 | | | \$ | - | \$ | - | |
| Sub3 | \$ | 27,159.58 | \$ | 11,469.12 | \$ | 15,690.46 | |
| Sub4 | | | \$ | - | \$ | - | |
| Total | \$ | 174,229.82 | \$ | 71,242.81 | \$ | 102,987.01 | |

What – Review Tool



CEC Sharepoint Tool

- Task Assignment Request and Approval Tool
- Dashboard





What – System Requirements

- Built and hosted on TxDOT Sharepoint Site
 - Maintained by TxDOT
 - PowerBI coordinated with ITD
- Access Control
 - Consultant can only see their own information (LOEs/invoices)
- Requires Active –C account
 - Does not require TxDOT laptop
 - Does not work with -O account
 - Requires PowerApp license
 - CEC Email Address for notifications



Process Administration - TxDOT

- Update contracts (supplemental agreements)
- Add/Update Work Authorizations
- Add/Update Scopes, Work Types
- Add/Update Firms
- Add/Update CSJs



CEC Task Assignment Request and Reporting Process



4-step review/approval process TxDOT/CFC Submits Request Submitted **TxDOT WA PM Task** Assignment Approval **TAR Approved** Consultant LOE Creation LOE Created **TXDOT WA PM LOF** Approval LOE Approved



Home Page

| SharePoint | D Search this site | 8 @ ? |
|--|--|----------------------------------|
| HOU_CEC_Contracts Home Documents Recycle bin | | |
| Ball-in-Court EV 10/15/2024 Due In Progress CEC PM Review for TA 014 WA #1_ for Contract 12-31DP50 | 51 | 2 Business Days for each Task |
| Ball-in-Court | | 13 |
| 8/16/2024 Due In Progress | Consultant CEC PM Review for Task Assignm WA #00 for Contract 00-0XXX0000 | nin App |
| 8/12/2024 OverDue In Progress | TxDOT WA PM Review for Task Assignment 9 WA #00 for Contract 00-0XXX0000 | 999 |
| | | HOU ROW-Survey HOU Survey |



Task Assignment Request Process App

| SharePoint | Houston CEC Task Assignment | | ୟ ୫ | © 1 | ? |
|-----------------------|---|------------------------------|----------------|--------|---|
| HOU_CEC_Contra | Request and Approval Tool | | | | |
| 十 New ~ 鐐 Page deta | | /19/2024 | 🖻 Share 🗸 | 🖉 Edit | 2 |
| Ball-in-Court | MainTotal Active Work AuthsTotal Active Task AssignmentsTask Assignments222 | | | | |
| 8/20/2 In Rev | LOEs This app is the main interface to the Houston CEC Task Assignment Request, Approval, and metrics tracking Process. E | | | | |
| | | ll <u>≡</u> ⊧l≁ hboard | AC Admin Ap | 2 | |
| | | | | | |
| | Welcome LeAnne Napolillo-C LNAPOL-C@txdot.poy | | | | |

Task Assignment Request – Step 1

| Requesting PM | Requesting Section | | Section Supervisor | Date of Reques |
|------------------------------|----------------------------|----------------|--------------------|--------------------|
| Elie Alkhoury | Hydraulics | | | 8/19/2024 |
| CSJs | Selected CSJ(s) | Project Li | mits | |
| 0027-07-032 0050-04-027 | 0027-07-032 0050-04-027 | I-10 at Pat | tterson | |
| County Department Budget A | ccount Source | Estimated Cost | Type of Work | * Work Auth Number |
| Harris | ~ | < \$50K | Design | V 12-3IDP5007_1 |
| Services | | | Selected Service | WA01 TEST 1 |
| Design | \sim | Add Service | Design | |
| | | Remove Se | ervice | |
| * Request Notes | | | | |



Management Charles States of Co.

Task Assignment Email Notifications

| HOU CEC Task Assignment Request 12-3IDP5007_1_004 Received | | | | | |
|---|--|--|--|--|--|
| HOU_CEC-Notifications | | | | | |
| Marthuse Currentine -C, | | | | | |
| Your request for UNSPECIFIED under Work Auth #1 on contract 12-3IDP50 | 07 has been received and is being reviewed for approval. | | | | |
| This process should take no longer than 2 business days. | New HOU CEC Task Assignment Request Submitted | | | | |
| ← Reply → Forward | HOU_CEC-Notifications | | | | |
| | TA 004 requesting UNSPECIFIED service(s) has been submitted by | | | | |
| | This is for Work Auth #1 on contract 12-3IDP5007 | | | | |
| | Please review the submitted Task Assignment Request located HERE | | | | |
| | ← Reply | | | | |



Task Assignment Request Review – Step 2

WA PM Comments: Reviewed. All looks good.

Review the Task Assignment Request and generate the LOE HERE





Task Assignment Request - Rejection

| HOU CEC Task Assignment Request 12-3IDP5007_1_003 Rejected |
|---|
| |
| |
| HOU_CEC-Notifications |
| To: O |
| High importance |
| |
| |
| TA 003 has been rejected . A new Task Assignment Request will need to be submitted if this work is still required. |
| Rejection notes: |
| |
| Rejected. Not enough available funds to handle this level of work under this Work Auth. |
| |
| |
| S Reply |



Submit Level of Effort – Step 3

| Select Task Order to view Value Value | X | Houston CEC Task Orders 12-31DP50 | | |
|---|------------|---|-----------------|----------|
| Main Consultant CEC Project Manager Review (a) Image: Consultant CEC Project Manager Review (b) Task Orders Review Comments Image: Consultant CEC PM can now create the LOE. (Approve TOR) Reject Consultant CEC PM Comments Image: Consultant CEC PM Comments (Approve TOR) Reject Submit LOE | | to view Task Order Details for Contract 12-3IDP5007 | Select Task Ord | 俞 |
| Review Comments Task orders This is a comment from the WA PM approving the Task Order Request. The Consultant CEC PM can now create the LOE. Approve TOR Reject Invoices Submit LOE Reject | \bigcirc | nsultant CEC Project Manager Review | Main | |
| Orders The Consultant CEC PM can now create the LOE. Approve TOR Reject Invoices Consultant CEC PM Comments ark Submit LOE Reject ark | | Review Comments | WA1 TO 001 (So | |
| LOEs Invoices Approve TOR Reject Consultant CEC PM Comments Submit LOE Reject | | This is a comment from the WA PM approving the Task Order Request. The Consultant CEC PM can now create the LOE. | | |
| Consultant CEC PM Comments Consultant LOE Reject | | | | Ê |
| Invoices | | Approve TOR Reject | | |
| Submit LOE Reject | | Consultant CEC PM Comments | | |
| Submit LOE Reject | | | ivoices | Invoices |
| Submit LOE Reject | | | | |
| Review Comments | | Submit LOE Reje | | |
| | | Review Comments | | |
| | | | | |
| | | | | |
| Approve LOE Reject | | Approve LOE Rejer | | |
| Create LOE COI and Preclusions Opdate Task Order Requ | uest | Create LOE COI and Preclusions Opdate Tas | | |

18



Task Assignment Request (LOE Approved)

| CA's Hidden | | C Task Assignmer | | DOT WA PM for Contract(s): -3IDP5007 |
|---|-------------------------|---------------------------------|-----------------------------|---|
| Select Contract | V Tas | k Assignment Details for WA1 TA | A 004 under Contract 12-3ID | P5007 |
| Main | Requestor Services | LOE Approved Cost Star | · () | LOE Approved |
| Task WA1 TA 001 (Test 1) signments WA1 TA 002 (Test 2) | Short Name | | REV00 | |
| WA1 TA 003 | Pump station report rev | riew | | Review History |
| LOEs WA1 TA 004 (Pump station re | po CSJ(s) | Selected CSJ(s) | Project Limits | |
| Invoices | 2 items | 0027-07-032 0050-04-027 | I-10 at Patterson | |
| | County Department B | udget Account Source Unit | Estimated Cost | Type of Work |
| | Harris | \sim | <\$50K | Design |
| | Request Notes | 10 10 V | | |
| | Review draft pump stati | on report | | |



Invoice View

| | | | | CEC Task Assig st Invoice Pro | | [Admin] TxDOT WA PM f 12-3IDP5007 | or Contract(s): |
|-------------|-------------|---|-----------------------|----------------------------------|-----------------------------|--|----------------------------|
| 命 | 12-3IDP5007 | ~ | | Invoice Deta | ails for Contract 12-3IDP50 | 07 | |
| Main | WA01 TEST 1 | ~ | Provider Invoice Numb | per | Total Invoice Amount | Work Auth Number | |
| F | | ٩ | Invoice 1 | | \$300,000.00 | 12-3IDP5007_1 | ~ |
| Task | Invoice 1 | Ū | Begin Service Date | End Service Date | | WA01 TEST 1 | |
| Assignments | Invoice 2 | | 7/1/2024 | 7/31/2024 | | | Update Invoice |
| | Invoice 3 | | | | | | |
| - | | | ٩ | TA 001 (Test 1) - Firm/Fu | nction Code Breakdown | | |
| E | | | 12-3IDP5007_1_000 | | Prime | | \$195,00 <mark>0.00</mark> |
| Invoices | | | 12-3IDP5007_1_001 | Function Code: 14 | 5 \$195,000.00 | 1 | |
| | | | | | Sub1 | | \$100,000.00 |
| | | | | Function Code: 14 | - | 1 | +, |
| | | | | Function Code. 14 | | V | |
| | | | | | Sub2 | 0 | \$0.00 |
| | | | | Function Code: 14 | 5 \$0.00 | 1 | |
| | | | | | Sub3 | | \$0.00 |
| | | | | Function Code: 14 | 5 \$0.00 | 1 | |



Dashboard

- Created to monitor program
- Shows data for:
 - Overall program
 - Contracts
 - Work Authorizations
 - Task Assignments
- Access Control:
 - TxDOT WA PM has access to their WA
 - CEC PM can only see their contract info



Dashboard – Program Summary





Dashboard – Contract Summary

| The case of the super constitution | Houston | CEC Cont | racts Sun | nmary | |
|------------------------------------|---------|---|--|-------|-------|
| | | Active Contract S | | | |
| | | | | | |
| с G | | | | | |
| Contract Number | | | | | |
| ů | | | | | |
| | | | | | |
| \$0M | \$2M | ^{\$4M} Total WA Amount and Un | ^{\$6M} allocated Contract Amount | \$8M | \$10M |



Dashboard – Contract Summary





Dashboard – WA Summary

| E Construction H | 12-3IDP5999 Consultant XYZ | | | Close | |
|--|-------------------------------|----------------|-------------------|-------|------------------|
| Prime Firm Consultant XYZ | Firm Summary by Firm Type | | Total Invoice Amt | | zation 100% |
| WA | Prime | \$3,254,518.97 | \$1,006,407.93 | | |
| WA 01 Schematics | (P) Consultant XYZ | \$3,254,518.97 | \$1,006,407.93 | | |
| | □ DBE | \$861,523.62 | \$245,508.59 | | \$641K (32%) |
| Latest Invoice Period Begin Date | (D) DBE 1 | \$19,765.64 | \$1,762.04 | | |
| 6/29/2024 | (D) DBE 2 | \$517,375.58 | \$15,423.48 | | \$285K (44%) |
| Latest Invoice Period End Date | (D) DBE 3 | | \$0.00 | | |
| 7/26/2024 | (D) DBE 4 | \$324,382.40 | \$228,323.07 | | 14.3% |
| T I A I | (D) DBE 5 | | \$0.00 | | t by Firm Type |
| Task Assignme | (D) DBE 6 | | \$0.00 | | E SUB (Non-DBE) |
| | (D) DBE 7 | | \$0.00 | | |
| 11 (100%) — | SUB (Non-DBE) | \$158,676.08 | \$5,463.45 | | |
| | (S) SUB 1 | \$158,676.08 | \$5,463.45 | | |
| | Total | \$4,274,718.67 | \$1,257,379.97 | | |
| Fiscal Year | | | | | Function Code |
| | | | | | |
| ● Planned FY Amount ● Invoiced FY Amount | | | | | |
| \$2M | | | | | |
| \$1M | | | | | |
| \$0M 2024 2025 2026 | | | | | \$0.25M (86.84%) |
| | | | | | |



Dashboard – Task Assignment Summary

| Consultant XYZ | | | | See De |
|---|--------------|------------------------|----------------|-------------|
| WA02 Design | | | | |
| | | | | |
| | | | | |
| Task Assignment Summary | | | | |
| Task | Status | Amount | Invoice Amount | Remaining |
| Contract Administration | LOE Approved | 3.41,000-00 | 848,473,27 | (16,401.20) |
| Task 1 - PowerBI Dashboard/Forms | LOE Approved | and and the | 8776,586,684 | \$14,001.00 |
| Task 2 - FM 646 ORD Support | LOE Approved | 0.00,020,000 | B11, 11 B33 | \$3,504.37 |
| Task 3 - ORD DU Training #1 | LOE Approved | 10002211.02 | 237,256,566 | 121,004,000 |
| Task 4 - APD ORD Training #1 | LOE Approved | \$27,511.65 | 910,084,88 | 100,007,00 |
| Task 5 - FBAO ORD Training #1 | LOE Approved | 10.0,007.00 | 849,601,246 | 82,400,411 |
| Task 6 - CDD ORD Training #1 | LOE Approved | 100.000.000 | \$10,224.12 | 81,896-02 |
| Task 7 - I-10 W Schem | LOE Approved | appropriate the second | 1967,201.00 | 100720-00 |
| Task 8 - FBAO Training #2 | LOE Approved | 813,800,841 | B4,048,77 | 10,750,22 |
| Task 9 - ORD Plan Review Training | LOE Approved | 100.000.000 | 50,001,88 | 864,046,73 |
| Task 10 - GP at Ft Bend Tollway Exhibit | LOE Approved | 100,00m Th | 1917.54 | 10.000 |
| Total | | 1011208-01 | 8.00,000.03 | 1003,000,70 |



Dashboard – Task Assignment Summary

| Department of Transportation | Housto | on CEC | Task A | Assignm | ent Summary 🔯 |
|--|--------|---|--|--|---|
| Prime Firm Consultant XYZ Task Order TA 007 | | WA WA01 Schematic | | Total Assigned Total Invoice Amount | Utilization 100% \$204k \$37K |
| Firm Type | | \$204,317.54 | Total Invoice Amt \$37,148.52 | | 18.2% Remaining in LOE \$167,169.02 |
| Consultant) 110 145 160 | XYZ | \$204,317.54 \$116,867.56 \$87,449.98 | \$37,148.52 \$0.00 \$0.00 \$37,148.52 | Schematic | Request Notes: Revisions |
| DBE DBE 1 110 145 160 | | | \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 | | |
| DBE 2 | | \$204,317.54 | \$0.00 \$0.00 \$0.00 \$37,148.52 | | |



Dashboard – Task Status Summary

| Texas Texas of Texas of Transportation Select all | on | ₹ 62 • | CEC Task Statu | s Sun Ball-In-Cour | | | |
|---|---|----------------------------------|---------------------------------------|--|-----------------------------|----------------|----------------|
| 15 (9.62 | Task Status Summary Status: LOE Ap LOE Cr TAR Ap Compl Rejector | tted eated pproved eted | 2 28.63 0.00 # Tasks 156 | 12-3IDP5002 12-3IDP5001 12-3IDP5003 12-3IDP5004 12-3IDP5006 12-3IDP5005 | Task Assignments by Co | 20 20 20 | 31 27 30 |
| Contract | Work Authorization | Task # | Task Assignment Name | Stage | ВІС | Age (Days) | Timeline |
| | WA02 Staff Augmentation for planning and engineering Projects in H-GAC area | TA 005 | Project Dashboard | Submitted | (TxDOT WA PM) | 50 | 0000 |
| | WA03 Landscape Support, Permit Review, Utility Invoice Review | TA 004 | | Submitted | (TxDOT WA PM) | 47 | 0-0-0-0 |
| 12-3IDP5003 | WA03 Landscape Support, Permit Review, Utility Invoice Review | TA 005 | | Submitted | Internet (TxDOT WA PM) | 47 | 0-0-0-0 |
| 12-3IDP5002 | WA06 US 90A Schematic | TA 001 | US 90A - Loop 762 to FM 359 | LOE Created | (TxDOT WA PM) | 21 | 0000 |
| 12-3IDP5002 | WA05 NE AO Support | TA 003 | FM 526 Additional Scope | TAR Approved | Hand Latence (CEC PM) | 16 | 0-0-0-0 |
| 12-3IDP5001 | WA02 NHHIP SPO Support | TA 010 | Task 10 - NHHIP PI | LOE Created | (TxDOT WA PM) | 11 | 0000 |
| 12-3IDP5006 | WA01 Roundabouts and Alternative Intersection Design | TA 001 | | LOE Approved | No Ball-in-Court Assignment | | 0000 |

How – Implementation



Implementation

- In person training for TxDOT and CEC PMs
- CEC PM Feedback
 - One on One Consultant CEC Onboarding
 - Service Desk through App
- TxDOT Feedback
- Next Steps

| × Nev | v HOU CEC I | ssue Subm |
|------------------|----------------------|------------------|
| Issue | | |
| Enter short issu | e name | |
| | | |
| Issue descrip | tion | |
| Enter detailed d | escription of the is | sue |
| | | |
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Questions and Discussion