AGENDA ADDITIONS
City Council Meeting
January 20, 2026
5:30 pm
Council Chambers

AGENDA ADDITIONS:

PETITIONS AND REQUESTS:

(res) 14. Approving an I-90 bridge replacement project design service contract, amendment No. 3

City of Austin
500 Fourth Avenue N.E.
Austin, Minnesota 55912-3773

Steven J. Lang, P.E.
City Engr./Public Works Dir.
507-437-9949
Fax 507-437-7101
slang@ci.austin.mn.us

Memorandum

To: Mayor & Council

From: Steven J. Lang, P.E.

Date: January 19, 2026

Subject: I-90 Bridge Replacement Project
Design Service Contract, Amendment No 3

Council previously partnered with MnDOT on a design services contract for the development of plans and specifications for the I-90 Bridge Projects. As MnDOT has worked through the design process with engineering consultant SRF, some cost changes have occurred along the way. This has initiated the need for Amendment No 3 to the design service contract. Key points of the amendment include:

REVISION 4. Subsection 4.1 is amended as follows:

4.1 Contractor will be paid on a Cost Plus Fixed Fee (profit) basis as follows:

Direct Labor Costs:	~~$1,051,274.00~~	**$1,170,191.00**
Overhead Rate Costs:	~~$1,787,165.80~~	**$1,989,324.20**
Fixed Fee Costs:	~~$354,804.98~~	**$394,939.03**
Direct Expense Costs:	~~$3,023.00~~	**$3,359.00**
Subcontractor(s) Costs:		
New Publica	~~$55,580.50~~	**$40,529.50**
DKJ Appraisal	~~$50,625.00~~	**$15,437.50**
Braun Intertec	~~$64,806.00~~	**$53,102.27**
Anderson Engineering	$183,429.00	
T2 Utility Engineers	~~$220,246.00~~	**$169,570.93**
Isthmus Engineering	~~$545,541.00~~	**$545,542.00**
Total Contract Amount:	~~$4,316,495.28~~	**$4,639,707.43**

REVISION 5. Subsections 4.5-4.8 are amended as follows:

4.5 Allowable direct costs include project specific costs listed in Exhibit ~~B2~~ **B3**. 3ny other direct costs not listed in Exhibit ~~B2~~ **B3** must be approved, in writing, by the State's Authorized Representative prior to incurring costs.

4.6 See Exhibit ~~B2~~ **B3** for Budget Details on Contractor and its Subcontractors.

4.7 Contractor will be reimbursed for travel and subsistence expenses in the same manner and in no greater amount than provided in the current "Minnesota Department of Transportation Travel Regulations". Contractor will not be reimbursed for travel and subsistence expenses incurred outside the State of Minnesota unless it has received prior written approval from State for such out of state travel. State of Minnesota will be considered the home base for determining whether travel is "out of state". See Exhibit ~~C2~~ **C3** for the current Minnesota Department of Transportation Reimbursement Rates for Travel Expenses.

4.8 State will pay ~~$4,242,212.28~~ **$4,565,424.43** of the Total Contract Amount. City will pay $74,283.00 of the Total Contract Amount. The total obligation of State and City for all compensation and reimbursements to Contractor under this contract will not exceed ~~$4,316,495.28~~ **$4,639,707.43.**

This scope is amended to include the following:

14. **Additional scope for the design of the pedestrian bridge including shifting its location, providing a constructability analysis, and re-evaluating the river hydraulic analysis.**
15. **Provide for additional bidding support and design support during construction through the 2025 construction season.**
16. **Design of the noise wall along the EB entrance ramp at 4th Street.**
17. **Additional permitting support for the Ped Bridge and WB I-90 Cedar River Bridge.**
18. **Structure modifications.**
19. **Signal pole modifications at 4th Street.**

Council action is requested to authorize the mayor to sign amendment No 3 to MnDOT contract 1036777 for engineering design services. Please let me know if you have any questions.

DEPARTMENT OF TRANSPORTATION

MnDOT Contract Number: 1036777

AMENDMENT NUMBER 2 TO MnDOT CONTRACT NUMBER:

Contract Start Date: February 18, 2021	Original Contract Amount:	$1,951,112.51
Original Contract Expiration Date: February 15, 2024	Previous Amendment(s) Total:	$2,365,382.77
Current Contract Expiration Date: February 15, 2026	Current Amendment Amount:	$323,212.15
New Contract Expiration Date: Not Applicable	Total Amended Contract Amount:	$4,639,707.43

Federal Project Number: Not Applicable
State Project Number (SP): 5080-170
Trunk Highway Number (TH): I-90
Project Identification: Preliminary and Detail Design for Bridges and Approach Roadways Along I-90 in Austin, MN

This amendment is by and between the State of Minnesota, through its Commissioner of Transportation ("State"), the **City of Austin**, through its City Council ("City") and **SRF Consulting Group, Inc.**, Address: 3701 Wayzata Boulevard, Suite 100, Minneapolis, MN 55416 ("Contractor").

RECITALS

1. State has a contract with Contractor identified as MnDOT Contract Number 1036777 ("Original Contract") to provide professional, technical assistance to provide preliminary bridge design services for five bridge replacements and 2 bridge rehabilitations/improvements. This effort also includes both preliminary and detail roadway design services for the adjacent approach roadways and ramp improvements. The deliverables under this Contract include, but not limited to, Environmental Document, Interstate Access Request, Preliminary Bridge Plans, Staff Approved Geometric Layout, Final Road Plans, Specifications and Cost Estimates.
2. State and the City have decided the need to amend the Contract for additional task hours and fees for the Contractor to complete all the required deliverables. The additional money and time for the final deliverables are needed to complete the project components including, but not limited to, the following: (1) Provide additional river modeling to support Bridge Office bridge and bank design, (2) Revise line, grade, and sections for a shift in the ped bridge location, (3) Evaluate constructability of the ped bridge in relation to river hydraulics, delivery and erection of the steel ped bridge structure, placement of structure, and traffic control required, (4) Provide additional construction design support as needed for field reviews and revisions, (5) Design the noise wall along the 4th Street eastbound entrance ramp and include the noise wall into the ped bridge plan set, (6) Evaluate facial panel design needs and revisions from Visual Quality Manual (VQM), (7) Structural design for monotube bridge for 4th St signal (8) Approach panel design, (9) Prepare retaining wall type study for 4th St interchange area, (10) Prepare design for moment slab for barrier along westbound exit ramp, and (11) Revise 4th Street signal locations per direction from Minnesota department of Transportation's Americans with Disabilities Act (ADA) Office.
3. State, City and Contractor are willing to amend the Original Contract as stated below.

CONTRACT AMENDMENT

Unless otherwise noted, in this amendment, deleted contract terms will be struck out and the added contract terms will be bolded and underlined.

REVISION 1. Subsection 1.4 is amended as follows:

1.4 Exhibits: Exhibits ~~A2 B2, C2, D1-1, D2-1, E2, F and G~~ **A3, B3, C3, D1-2, D2-1, E3, F and G** are attached and incorporated into this contract.

REVISION 2. Subsections 2.1-2.2 are amended as follows:

2.1 Contractor, who is not a state employee, will complete the tasks listed in Exhibit ~~A2~~ **A3**.

2.2 Deliverables are defined as the work product created or supplied by Contractor pursuant to the terms of this contract. See Exhibit ~~A2~~ **A3** for the full details on the deliverables to be provided by Contractor under this contract.

REVISION 3. Subsection 3.4 is amended as follows:

3.4 See Exhibit ~~A2~~ **A3** for a detailed listing of responsibilities to be completed by State.

REVISION 4. Subsection 4.1 is amended as follows:

4.1 Contractor will be paid on a Cost Plus Fixed Fee (profit) basis as follows:

Direct Labor Costs:	~~$1,051,274.00~~	**$1,170,191.00**
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REVISION 6. Subsections 5.2-5.3 are amended as follows:

5.2 Contractor will use the format set forth in Exhibit ~~D1-1~~ **D1-2** and Exhibit D2-1, respectively, when submitting invoices. Exhibit ~~D1-1~~ **D1-2** will be used when submitting invoices for State's portions of the monthly invoiced amount, and Exhibit D2-1 will be used for City's portions of the monthly invoiced amount. Contractor must submit invoices electronically to the State for payment, using the instructions set forth in Exhibit ~~D1-1~~ **D1-2**. Contractor must mail (United States Postal Service), express (UPS, FedEx or other similar express carrier) or drop off invoices to the City, using the mailing address in Exhibit D2-1.

5.3 Contractor must submit a monthly progress report, using the format set forth in Exhibit ~~E2~~ **E3** showing the progress of work in work hours according to the tasks listed in Article 2 Scope of Work.

The Original Contract and any previous amendments are incorporated into this amendment by reference. Except as amended herein, the terms and conditions of the Original Contract and any previous amendment remain in full force and effect.

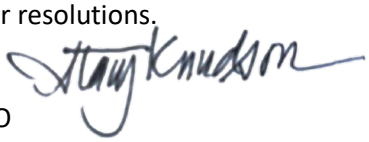
STATE ENCUMBRANCE VERIFICATION

Individual certifies that funds have been encumbered as required by Minnesota Statutes §16A.15 and §16C.05.

Signed:
Date:

CONTRACTOR

Contractor certifies that the appropriate person(s) have executed the amendment on behalf of Contractor as required by applicable articles, bylaws or resolutions.

Signed: 

Title: CFO

Date: 1/15/26

CITY

City certifies that the appropriate person(s) have executed the Contract on behalf of City as required by applicable resolutions, ordinances or charter provisions.*

Signed:

Title:

Date:

*** The resolution approving this contract has been submitted to the State, and it is on file.**

DEPARTMENT OF TRANSPORTATION

(with delegated authority)

Individual certifies that the applicable provisions of Minnesota Statutes §16C.08 subdivisions 2 and 3 are reaffirmed.

Signed:

Title:

Date:

COMMISSIONER OF ADMINISTRATION

Signed:
Date:

SCOPE OF WORK AND DELIVERABLES
Preliminary and Detail Design for Bridges and Approach Roadways Along I-90 in Austin, MN
State Project 5080-170

PROJECT OVERVIEW

The State is in need of professional, technical assistance to provide preliminary bridge design services for five bridge replacements and 2 bridge rehabilitations/improvements on Interstate 90 (I-90) including US Highway 218 S(US 218), Trunk Highway (TH) 105 and County State-Aid Highway (CSAH) 45. This effort will also include both preliminary and detail roadway design for the adjacent approach roadways and ramp improvements. The location at CSAH 45 (4th St.) will include total interchange reconstruction.

This scope is also amended to include the following:

1. Utilize a Single Point Urban Interchange (SPUI) design configuration at the 4th Street interchange.
2. Final design for the US 218 N (14th Street) interchange.
3. Preliminary and final design for that portion of 4th Street, beginning at a point just south of 13th Avenue and extending to approximate Station 102+00, as depicted on the Staff Approved Layout, dated March 23, 2022.
4. Preparation of a stand-alone plan set for cross over construction and shoulder rehabilitation in select locations (SP 5080-176).
5. Include a possible pedestrian bridge replacement, the proposed cross-overs, the 4th St extension, and the US 218 N interchange in the CATEX.
6. Prepare federal funding (INFRA) and Bridge Investment Discretionary grant applications for the entire project.
7. Approach panel design for Bridges 9183 (TH 105), 9201 (21st Street), and 50804 (14th Street).
8. Revision of pier locations for Bridges 6868 & 6869 (Cedar River Bridges).
9. Prepare plans and update CATEX for the ped bridge reconstruction.
10. Prepare federal funding INFRA grant agreement for MnDOT with FHWA.
11. ADA Design – Provide for revisions to the staff approved layout to add a perpendicular pedestrian crossing at the 4th Street interchange.
12. Provide for bidding support and design support during construction.
13. Design temporary OH signs for traffic control.
14. **Additional scope for the design of the pedestrian bridge including shifting its location, providing a constructability analysis, and re-evaluating the river hydraulic analysis.**
15. **Provide for additional bidding support and design support during construction through the 2025 construction season.**
16. **Design of the noise wall along the EB entrance ramp at 4th Street.**
17. **Additional permitting support for the Ped Bridge and WB I-90 Cedar River Bridge.**
18. **Structure modifications.**
19. **Signal pole modifications at 4th Street.**

The project includes replacing the following bridges:

1. Br.# 9183 (TH 105 over I-90)
2. Br. #9180 (CSAH 45/4th St. over I-90 – full interchange reconstruction)
3. Br.#s 6868/6869 (I-90 over Cedar River)
4. Br.# 9201 (US 218 S. Jct. over I-90)
5. Br # 50804 (US 218 N. Jct. over I-90)

6. Ped Bridge over Cedar River

In addition, the project includes the repair/rehabilitation of Br. #s 9179/9180 (I-90 over 6th St.)

The Contractor's tasks will include, but are not limited to: field surveys, public engagement, preliminary bridge design, preliminary roadway design, Interstate Access Request (IAR) , Level 1 Geometric layout, construction limits, Design Memorandum, preliminary and detail hydraulics design, a non-programmatic CATEX document, Subsurface Utility Engineering (SUE)/utility coordination, detail roadway design, road plans, right-of-way services and permits.

Final project plans and specifications will be prepared in accordance with Minnesota Department of Transportation (State) Manuals, Standards, and as otherwise indicated in the Request for Proposals and this Scope of Work. Contractor will perform all tasks necessary to prepare and receive State approval for final plans.

Contents

TASKS

1. PROJECT MANAGEMENT (Source type 1010)

Project management will include work necessary for communication and completion of the project tasks on time and within budget. The Contractor's Project Manager or their primary duties will not be reassigned without the written consent of the State's Project Manager. The Contractor's staff will have the training and expertise necessary for the work tasks to which they are assigned.

Contract Completion Time. It is assumed that Notice to Proceed (NTP) will be given in February of 2021 and the letting will be on ~~October 27~~, December 1, 2023 for a total of ~~32~~ 34 months.

The work is amended to extend 4th St construction up to and including the 13th Street intersection, the final design for the US 218 N (14th Street) interchange, account for the design of a SPUI configuration at 4th Street, the preparation of a stand-alone plan set for cross over construction and shoulder rehabilitation in select locations, and the preparation of a federal funding (INFRA & Bridge Investment) grant applications.

The work is also amended to include approach panel design, revisions to pier locations for the river bridges, increases to billing rates for 2023, and revising the expiration date.

The Project Management work is amended to include management time construction cost analysis, reducing plan content to control costs and construction work zone traffic management.

Contractor will:

1. Prepare monthly invoices and progress reports.
2. Coordinate with State's Project Manager (weekly conference calls) until the Plan Turn-in Date. Provide the State's Project Manager with status updates on P6 schedule activities for which the Contractor is responsible.
3. Provide conference call notes to State's Project Manager in a timely manner.
4. Prepare and Maintain a Work Plan and schedule of work. Provide monthly updates of percent complete, resources expended, and the next month's projected work schedule to be incorporated into the project schedule.
5. Schedule and attend Project Kickoff meeting and monthly Project Management Team (PMT) meetings. Prepare agenda and minutes for each meeting. (Assume meeting every month until letting). Project Meetings will be virtual until such time conditions allow in person meetings.
6. Prepare agendas, schedule updates, and minutes for all progress meetings.
7. Provide Project Team and Subconsultant Oversight and Management

State will:

1. Maintain a project schedule throughout the duration of the contract and communicate with Contractor about upcoming schedule milestones.
2. Arrange and/or provide facilities for project team (PMT) meetings.
3. Attend PMT meetings.
4. Review draft agendas, minutes, and meeting summaries.

2. PUBLIC AND AGENCY INVOLVEMENT (Source type 0054)

2.1 Public Involvement Plan (PIP).

Within 20 working days from Notice to Proceed, the Contractor will submit a draft Public Involvement Plan (PIP) for review by the State that will describe the proposed Public Engagement/Outreach activities to be utilized during

Project Development. The PIP will demonstrate the following at a minimum:

- Contractor's Key personnel leading Public Engagement/Outreach
- Stakeholder identification (elected officials, agencies, and group identification including key contacts)
- Methods and level of engagement (inform/collaborate/empower etc.) for the various stakeholder groups
- Frequency of engagement with stakeholder groups (e.g. monthly with Project Advisory Group)
- Venues for Public Engagement activities (e.g. proposed Open House location options, etc.)
- Proposed publishables (e.g. periodic newsletters, etc.) and timing relative to other engagement activities
- Implementation and use of electronic/virtual means to engage the public
- Methods/protocol for logging contact received from the public, assigned responder, and description of closeout activities.
- Key milestones to review/update the PIP

With prior authorization from the State's Project Manager, the Contractor will perform direct contacts with the Public, State functional units, City of Austin, Mower County, and other outside agencies to collect information needed for the PIP and/or project development and final plans. Contractor will provide copies of communications to State's Project Manager.

The Contractor will facilitate public engagement efforts, including agency and stakeholder involvement meetings. Tasks will include, but not limited to, facilitating public engagement/outreach meetings, preparing ADA-compliant web-ready exhibits for posting to the project website, scheduling meetings, preparing meeting notices, and coordinating venues and compiling feedback from public engagement activities. Contractor will maintain, and provide as needed, a log of contacts, date and responses with the public and other stakeholders.

2.2 Stakeholder Identification

Internal and external stakeholders will be identified, including agencies, elected and appointed officials, advocacy groups and adjacent property owners/tenants. Anticipated stakeholders include:

City of Austin
Mower County
Vision 2020 Group
Hormel
Miguel Garate, Riverland Comm College
Austin Welcome Center
Oballa Oballa
Corey Haugin, Austin School District
Latino organizations
Congregations

Existing and potential issues will be identified related to the stakeholders identified using a conflict tracking spreadsheet.

Conflicts will be reviewed for likelihood of occurring, risk to the project for time, scope and budget.

Possible options for resolution will be generated by the team with a focus on identifying impacts, outcomes, strategies and planned responses.

Identify those local stakeholders which may be willing and able to partner with MnDOT to assist in communication and coordination with diverse people groups.

2.3 PIP Implementation and Management

Prepare for and attend up to seven stakeholder coordination meetings. It is assumed that stakeholder meetings will be virtual until such time conditions allow in person meetings.

Prepare for and conduct up to four public meetings. It is assumed that public meetings will be virtual until such time

conditions allow in person meetings. Summarize and document public meeting comments in a format that meets ADA accessible standards for posting online.

2.4 Stakeholder Communications

Coordinate with those stakeholders and local partners identified in 3.2 to develop communication networks and develop strategies to reach underrepresented groups. Identify frequency of engagement activities and venues, if applicable.

Identify methods and levels of engagement for the various stakeholder groups including hard copy publishable documents and electronic media formats.

Prepare for and facilitate 10 multicultural listening sessions.

2.5 Visual Quality Engagement

A Visual Quality Manual (VQM) was previously completed for the corridor. The VQM was developed in collaboration with community stakeholders and State staff. The VQM will serve as the guiding document regarding development of visual quality elements on the project. It is anticipated that further discussion with stakeholders will be necessary to confirm visual quality elements. Visual Quality Engagement and discussions may be incorporated into other stakeholder meetings and public involvement activities. The Contractor will detail Visual Quality Engagement activities in the Public Involvement Plan (PIP).

VQM Revisions

Revise VQM to include changes to facia panel design and to include graphics depicting SPUI aesthetics.

2.6 US 218 N Interchange

Update the PIP to include the work at the US 218 N interchange, the I-90 Cross-over Plans, and the extension of 4th Street to 13th Ave.

2.7 Preparation of a 2022 INFRA Grant Application

2.7.1 Agency Coordination

This task assumes management of daily work activities, tasks and meetings, monitor budget, provide monthly billings, and maintain communications with MnDOT staff during the entire duration of the process. This task also includes QA/QC for all product deliverables, including graphics, narrative in the application and benefit-cost analysis materials.

In addition, SRF will arrange and participate in project meetings with MnDOT staff and other stakeholders with pertinent information/useful data critical to application requirements. Meetings are expected at the following milestones:

- Introduction to the grant narrative, benefit-cost analysis, and data needs.
- Review of draft grant narrative, benefit-cost findings/refinement of assumptions.
- Work with MnDOT staff throughout the application process to collect/review supplemental supporting documents and draft. As part of the task, SRF staff will provide MnDOT staff with material/content to forward to local, state, and federal delegations for requested letters of support.
- Document and discuss with MnDOT staff critical information gleaned from 2022 RAISE webinars.

2.7.2 Data Collection

Gather data from MnDOT staff, and other sources, analyze data, prepare findings, coordinate documentation with MnDOT staff, and integrate this data into application text and graphics to respond to the new 2022 INFRA "project outcome" criteria (including Safety, State of Good Repair, Economic Impacts, Freight Movement and Job Creation, Climate Change, Resiliency and the Environment, Equity, Multimodal Options and Quality of Life, and Innovation Areas: Technology, Project Delivery, and Financing).

2.7.3 Benefit Cost Analysis

Prepare the required benefit cost analysis (BCA) for the project, following procedures as noted in the application rules. Complete supplemental BCA work. Perform forecasts for build and no-build conditions using the regional model. Prepare a BCA memo and BCA worksheets for use in application narrative and submittal.

2.7.4 Application Preparation

Prepare draft application by Monday May 16, 2022, for review and comment by MnDOT staff (revise within two working days and assume only one draft revision). All resolutions, letters of support, etc. will be gathered and assembled into the final application.

Prepare the final application for submittal to US DOT by due date (May 23, 2022). Documentation, supporting application assertions, etc. will be provided by MnDOT for relevant information. The application will follow the guidance provided by US DOT. It is understood that MnDOT is registered with Grants.gov and will submit the application to this website by 10:59 pm (CST) on Monday May 23, 2022.

2.7.5 Graphics/Website

Prepare graphics/tables, final document formatting and links for the website.

2.8 Preparation of a 2022 Bridge Investment Discretionary Grant Application

2.8.1 Agency Coordination

This task assumes management of daily work activities, tasks and meetings, monitor budget, provide monthly billings, and maintain communications with MnDOT staff during the entire duration of the process. This task also includes QA/QC for all product deliverables, including graphics, narrative in the application and benefit-cost analysis materials.

In addition, SRF will arrange and participate in project meetings with MnDOT staff and other stakeholders with pertinent information/useful data critical to application requirements. Meetings are expected at the following milestones:

- Introduction to the grant narrative, benefit-cost analysis, and data needs.
- Review of draft grant narrative, benefit-cost findings/refinement of assumptions.
- Work with MnDOT staff throughout the application process to collect/review supplemental supporting documents and draft. As part of the task, SRF staff will provide MnDOT staff with material/content to forward to local, state, and federal delegations for requested letters of support.
- Document and discuss with MnDOT staff critical information gleaned from 2022 RAISE webinars.

2.8.2 Data Collection

Gather data from MnDOT staff, and other sources, analyze data, prepare findings, coordinate documentation with MnDOT staff, and integrate this data into application text and graphics to respond to the new 2022 INFRA "project outcome" criteria (including Safety, State of Good Repair, Economic Impacts, Freight Movement and Job Creation, Climate Change, Resiliency and the Environment, Equity, Multimodal Options and Quality of Life, and Innovation Areas: Technology, Project Delivery, and Financing).

2.8.3 Benefit Cost Analysis

Prepare the required benefit cost analysis (BCA) for the project, following procedures as noted in the application rules. Complete supplemental BCA work. Perform forecasts for build and no-build conditions using the regional model. Prepare a BCA memo and BCA worksheets for use in application narrative and submittal.

2.8.4 Application Preparation

Prepare draft application by Monday May 16, 2022, for review and comment by MnDOT staff (revise within two working days and assume only one draft revision). All resolutions, letters of support, etc. will be gathered and assembled into the final application.

Prepare the final application for submittal to US DOT by due date (September 6, 2022). Documentation, supporting application assertions, etc. will be provided by MnDOT for relevant information. The application will follow the guidance provided by US DOT. It is understood that MnDOT is registered with Grants.gov and will submit the application to this website by 10:59 pm (CST) on September 8, 2022.

2.8.5 Graphics/Website

Prepare graphics/tables, final document formatting and links for the website.

2.9 Preparation of a 2022 INFRA Grant Agreement

This task assumes preparation of the draft grant agreement by gathering data from the 2022 INFRA grant application, information gleaned from meeting with MnDOT staff, USDOT webinar and templates, and other sources. SRF will analyze data, prepare findings, coordinate documentation with MnDOT staff, and integrate this data into the draft grant agreement. Schedule G is intentionally left blank in the grant agreement.

Provide one (1) revision of the draft grant agreement per subtask.

Proved Final Revised grant agreement.

2.10 Public Engagement during Construction

Plan for and facilitate one general public open house meeting and three focused small group meetings to inform the public and stakeholders of construction related activities.

Contractor will:

1. Prepare for and attend up to ~~seven~~ nine stakeholder coordination meetings with, but not limited to, the City of Austin and Mower County. The Contractor will prepare a meeting summary for each.
2. Prepare for and conduct up to four public meetings including coordinating venues to be used and providing displays for use during meetings.
3. Develop mailing list for public meetings and mail notices to selected addresses in consultation with State.
4. Provide light refreshments at selected public meetings.
5. Ensure that any Contractor material provided for public online display meet ADA accessible requirements.
6. Provide, as needed, written interpretation of materials and/or translation services for foreign language speakers in the community.
7. Arrange and/or provide facilities for stakeholder meetings. It is assumed that stakeholder meetings will be virtual until such time conditions allow in person meetings.
8. Review, evaluate, and finalize facia panel designs to eliminate the need to divert traffic during construction.
9. Incorporate the US218N interchange into the Public Involvement Plan and all other public and stakeholder engagement activities.
10. Prepare federal funding (INFRA & Bridge Investment) grant applications.

State will:

1. Attend stakeholder and public meetings.
2. Review and provide comments on public meeting displays and all meeting summaries.
3. Develop and maintain public project website.
4. Develop, maintain and operate project email list for project updates to the public via GovDelivery.
5. Assist in data collection in support of the federal funding grant applications.

3. DATA COLLECTION (Source type 6265)
3.1 Design and Land Surveys

The State will furnish previously completed Digital Terrain Mapping (DTM) files, survey control point information, existing right-of-way information and other previously completed mapping files, the format of which shall meet current MnDOT CAD Standards. The Contractor will review the supplied survey information and will identify where supplementary survey work is required to complete the design and right-of- way deliverables, acquire additional data/information, or demonstrate the location of proposed features.

The Contractor will perform supplementary design/location surveys. Supplementary survey work completed by the Contractor will use the same datum(s) and project controls that are identified in the State supplied mapping files. The Contractor will notify the State's Project Manager at least five (5) business days before performing any supplementary survey work in the field. Any traffic control required for survey work will be furnished by the Contractor.

The Contractor will perform supplementary Land Surveys to augment information needed in support of completing Final Plats by the State. Supplemental Land Surveys will include property surveys, right-of-way surveys, public land surveys, and alignment surveys.

The Contractor will verify survey datums used for data furnished by Third Parties (if any), such as hydraulic models or affected utilities. The Contractor will ensure that third party information (if any) is consistent with datums in use by the Project and consistent with Quality Control checks detailed in the DQMP.

The Contractor will update the base mapping to incorporate the supplemental survey information.

Perform data audit of mapping files to ensure spatial integrity with design models. Provide field surveys to verify mapping accuracy.

Update preliminary design profiles, based on updated survey data and mapping.

Perform supplemental surveys for the US 218 N interchange, cross-over areas, and the 4th St. extension.

3.2 Traffic Forecasts

The State will furnish available traffic counts and forecasts. The Contractor will supplement traffic counts or forecasts as required for design deliverables required for the project, as directed by MnDOT. At a minimum, obtain turning movement counts at four intersections on CSAH 45 and process data and supplement existing forecasts.

If needed, within 15 days from NTP, the Contractor will identify locations where additional traffic counts or forecasts are required and will submit a traffic count map to the State for review and concurrence. The Contractor will compile traffic count data and submit a summary of traffic counts. The Contractor will provide a written narrative describing the forecasting methodology for review and concurrence by the State before performing traffic forecasts, if necessary.

Perform sensitivity analysis of the assumed growth rate within the traffic operations for the preferred concept at 4th Street.

See Section IAR for additional traffic related work.

The Contractor will conduct wetland delineations within the project corridor and prepare draft permits for the State's review.

Level 1 Wetland Delineation – The Contractor will gather historical precipitation data and aerial photographs for the project corridor. Utilizing a "wetter than normal" year, Contractor will examine the project corridor for wetland signatures. The areas exhibiting wetland signatures will be sequentially numbered from west to east. For the years that experienced "normal" precipitation, Contractor will examine the aerial photographs for the presence of wetland signatures at each location identified in the "wetter than normal" year. Contractor will follow the Board of Water and Soil Resources (BWSR) and U.S. Army Corps of Engineers (COE) guidelines for determining what areas are wetland, non-wetland or need to be verified in the field. A Level 1 Wetland Delineation report will be prepared summarizing the findings of the aerial photo review. The historical aerial photographs utilized during the review will be included in the report.

Level 2 Wetland Delineation – The Contractor will complete a Level 2 wetland delineation for the project, utilizing a single mobilization. The limits of the Level 2 wetland delineation will be determined by the State based on the Level 1 Delineation Report. MnDOT will provide access permission on private land. The Level 1 Wetland Delineation Report will be relied upon to identify potential wetlands along the project corridor. Areas exhibiting the required wetland criteria (hydric soil, dominance of hydrophytic vegetation and wetland hydrology) will be delineated as wetland. The wetland

boundary will be placed along the line where one or more of the required wetland criteria do not exist. The wetland boundary will be located with a GPS instrument capable of sub-foot accuracy. Wetland data (soil, vegetation and hydrology) will be collected from upland and wetland sample points for each delineated wetland. A Level 2 Wetland Delineation Report will be prepared, which will include a detailed description of the project purpose and need, site-specific maps and field data sheets.

The Contractor will represent MnDOT at one Technical Evaluation Panel (TEP) meeting with representatives from local, state and federal governing agencies. One to two days prior to the TEP meeting, Contractor will place wire pin flags along the delineated wetland boundaries to demonstrate the locations of the delineated boundaries. During the TEP meeting, Contractor will lead the TEP through the review of the delineated wetlands and address any questions or concerns raised by the TEP. After the TEP meeting Contractor will remove all of the wire pin flags from the site. Comments presented by the TEP will be formally addressed by Contractor and submitted to the TEP for acceptance.

Wetland Permitting – Per Task 8 PERMITS, the Contractor will prepare applications for the required local, state and federal wetland permits, should the project impact wetlands regulated by these agencies. Contractor will address all comments regarding the permit application and submit to the agencies for approval following State Review.

DELIVERABLES:

Contractor will:

1. Acquire project survey data from MnDOT and review for completeness.
2. Perform supplemental field survey(s) required for final plan set preparation and completion. Update base survey data, as necessary, to reflect new survey information. Deliverables include PDF report and CAD/GIS electronic line work files.
3. Contact Gopher State One Call to acquire existing utility data. Incorporate data received from utilities into project basemap.
4. Incorporate Materials Design Recommendations and other included data into the project's design.
5. Complete Level 1 Wetland Report
6. Complete Level 2 Wetland Report
7. Arrange for and facilitate TEP meeting
8. Prepare draft Local and/or State, and Federal wetland permit application(s) for State review

State will:

1. Provide existing alignment, right-of-way, utility, and property/subdivision surveys.
2. Provide topography and ground surface TIN.
3. Provide Project Base mapping in MicroStation format.
4. Provide Materials Design Recommendations.
5. Complete a cultural resource review and documentation. Complete ENM and provide responses.
6. Provide pre-scoping study report
7. Provide project scoping report
8. Provide existing project concepts
9. Provide existing right-of-way drawings and plats
10. Provide record or As-Built plans of roadways, existing traffic signal phasing

11. Provide available traffic data, including available intersection turn movements, ADT Forecasts.
12. Provide culvert Hydraulic Recommendations (if any) including all culvert replacement, lining and repairs in rural and urban areas. Recommendations based on needs of inspection reports by State.
13. Provide previously completed Maintenance of Traffic study including detour Recommendations.
14. Coordinate draft and final wetland report review with OES and FHWA.

4. MUNICIPAL CONSENT (Source type 1140)

Municipal consent will be required for this project because permanent right of way and temporary easement acquisitions will be required.

The Contractor will attend hearing and/or meetings at local jurisdictions, present information, and provide technical assistance during the consideration of the Staff Approved Layout for the interchanges at US 218 North and 4th Street. The Contractor is responsible for the preparation of all documents required to gain Municipal Consent. These meetings will be virtual until Covid restrictions are phased out.

The Contractor will prepare maps, graphics, and presentations to assist in communicating project intent and technical design information that will be targeted for non-technical groups.

The Contractor will prepare documents, such as summary memorandums and other documentation in support of gaining Municipal Consent.

The Contractor will submit a Municipal Consent Request Package to the State's Project Manager. The Municipal Consent Request Package will consist of a hardcopy of the Staff Approved Layout, a copy of the Design Memo, a copy of the CATEX document (if complete), and a good faith cost estimate indicating the Total Project cost and the City's share of the costs (if any) . The State's Project Manager will submit the Final Municipal Consent Request Package to the City of Austin.

The Contractor will:

1. Prepare maps, layouts, resolutions and all other documents required for the Municipal Consent Process as outlined in the HPDP manual.
2. Prepare a Municipal Consent request package
3. Attend up to two city council meetings to present Staff Approved Layout and seek resolution of approval.

The State will:

1. Provide oversight and direction.
2. Submit the Municipal Consent Request Package to the city
3. Attend city council meetings to present Staff Approved Layout and seek resolution of approval.

5. QUALITY MANAGEMENT (Source type 1010)

The Contractor will maintain a Design Quality Management Plan (DQMP) that specifies how the Contractor will perform Quality Assurance (QA) and Quality Control (QC) activities throughout the contract duration to ensure delivery of a quality design in a timely manner in conformance to contract requirements established for the project. The DQMP will be submitted to the State within twenty (20) working days of the Notice to Proceed (NTP).

The scope is revised to include both the US 218 North interchange and the 2023 Cross-Over Plan (SP 5080-176) into the DQMP.

Contractor will:

1. Prepare and implement a project specific Design Quality Management Plan (DQMP), following the State Quality Management Process. Draft DQMP will be submitted to State for review and approval within 20 working days from Notice to Proceed.
2. Perform Discipline Coordination Reviews at 60%, 95%, and 100% submittals.
3. Perform quality control checking at 30%, 60%, 95%, and 100% submittals.

4. Assign a Quality Assurance Manager responsible for implementing the project's Quality Management Plan and monitoring its execution.

State will:

1. Review and provide any comments on Contractor's DQMP.
2. Review and summarize comments on Contractor deliverables.

6. ENVIRONMENTAL DOCUMENTATION (Source type 1070)

6.1 Class II (CATEX) Document

The Contractor will prepare a Class II Environmental Document (CATEX) for approval. The Contractor will perform on-going coordination with District 6 during development, processing, and approval of CATEX document.

Assumptions:

- Project meets the definition of a Class II Action (non-programmatic Categorical Exclusion) under NEPA.
- Environmental document is a non-programmatic, long-form Categorical Exclusion (CATEX) Determination document.
- Proposed improvements do not meet the threshold for mandatory EAW under MEQB rules. If MnDOT (as RGU for projects on State trunk highway system) determines that a discretionary EAW is necessary, additional scope will be prepared via contract amendment.
- Assumes District 6 has completed Early Notification Memo (ENM) review process and will provide ENM responses for completion of CATEX.
- Assumes District 6 will coordinate draft and final CATEX reviews and approvals with MnDOT Office of Environmental Stewardship (OES) and FHWA.
- Assumes a qualitative MSAT analysis per Interim Guidance on Air Toxic Analysis in NEPA Documents Feb. 3, 2006 (or current) FHWA Memo. Assumes no quantitative air quality modeling (MSAT and CO) required.
- Phase I environmental site assessment (ESA) requirements to be determined by MnDOT Environmental Investigation Unit (EIU). Assumes a Phase I ESA, if required, will be prepared by EIU.. If a phase II investigation is warranted, the contractor will provide any graphical exhibits to assist with the drilling investigation.
- Assumes ESA or Regulated Waste Assessments, if needed, will be prepared by MnDOT
- Assumes the addition of the US 218 N interchange
- Assumes the extension of 4th Street reconstruction down to and including the 13th Avenue intersection.
- Assumes the addition of the Cross-over plans (SP 5080-176).

The Contractor will perform a review of the project area, using available mapping and on-line data, to confirm conditions of the affected environment. The Contractor will compile data from the City of Austin, Mower County, District 6, and other sources, including project background, funding, and permit requirements.

The Contractor will prepare description of existing conditions and proposed improvements, description of project cost, anticipated funding sources, anticipated schedule, and key contacts for environmental document.

The Contractor will evaluate potential impacts of the project on parks, recreation areas, and trails and summarize Section 106 determination provided by CRU. Any additional required cultural resources studies will be completed by CRU.

The Contractor will identify vegetation, fish and wildlife impacts, and measures to minimize harm (assumes no impacts). District 6 to provide DNR response to ENM, including NHIS results. District 6 to provide OES response to ENM regarding federal threatened and endangered species.

The Contractor will address excess materials, geology, groundwater, and earthborne vibrations.

The Contractor will summarize drainage and water quality impact analysis for inclusion in CATEX document, address

wetlands and floodplain impacts and address erosion control.

The Contractor will consult with Environmental Investigation Unit (EIU) regarding contaminated properties. Assumes EIU will prepare a Phase I Environmental Site Assessment (ESA) if necessary. Prepare Form EDD-1 (Environmental Due Diligence Form #1) and submit to State's Project Manager for review. Summarize contaminated properties review for inclusion in the CATEX document.

The Contractor will address visual impacts, land use impacts, farmland, tribal, social and economic impacts and identify any controversial issues.

The Contractor will address access changes, traffic detours, and maintenance of traffic.

The Contractor will address right of way impacts (permanent and temporary right of way needs).

The Contractor will prepare an environmental justice analysis and summarize findings in CATEX if required.

The Contractor will address bicycle and pedestrian movements, including accessibility.

The Contractor will prepare graphics for CATEX document including project location map, USGS map, layouts, typical sections, drainage plan, and other supporting graphics.

The Contractor will prepare a draft CATEX document for District 6, OES, and FHWA review. This assumes that District 6 will submit draft CATEX to OES and FHWA and also assumes a concurrent OES/FHWA review.

The Contractor will revise draft CATEX based on District 6, OES, and FHWA comments. The Contractor will prepare final CATEX for District 6, OES, and FHWA final review and approval. Assumes that District 6 will distribute final CATEX document to OES and FHWA for approval.

The State will provide responses to the Early Notification Memo received for use in completing the CATEX document.

The Contractor will submit the draft CATEX to the State for review and comment. Comments will be returned to the Contractor in writing. The Contractor will incorporate the State's review comments on the draft CATEX and prepare a Final CATEX for approval.

6.2 Phase I & Phase II Environmental Site Assessments (ESAs), Regulated Waste Assessments

The State will conduct any required contaminated soils and regulated waste investigations. Any findings requiring contract Special Provisions will be drafted by the State. The State will provide any findings, reports, or required Special Provisions.

6.3 Conditional Letter of Map Revision (CLOMR)

The State desires to avoid stage increases and floodway impacts to the Cedar River as a base approach to the project and replacement of bridges 6868/6869. However, if a Conditional Letter of Map Revision (CLOMR) is necessary resulting from proposed roadway and bridge improvements the Contractor will prepare all necessary documentation, hydraulic modeling, and other pertinent information that is necessary for a CLOMR submittal to local/state/federal agencies.

Work under this task will include the preparation of HEC-RAS model(s), preparation and submittal of the CLOMR application package, responding to agency inquiries, organizing, attending, and leading any associated public information meetings or hearings as required.

Any application/submittal, advertising or facility fees associated with the CLOMR submittal will be paid for by the contractor and billed to the State as a direct expense.

6.4 Prepare drilling map for use by MnDOT for contaminated materials investigations.

6.5 Prepare and coordinate Environmental Management Plan sheets (green sheets). (Green Sheet development

by Anderson, plan sheet integration by SRF).

DELIVERABLES

The Contractor will:

1. Prepare and submit a draft CATEX for State review.
2. Incorporate review comments and submit a Final CATEX for approval.
3. Respond to agency inquiries.
4. Provide any exhibits needed for Environmental Site Assessments.
5. Create HEC-RAS model(s) for evaluating proposed stream condition.
6. Prepare and Submit a Conditional Letter of Map Revision (CLOMR), as needed.
7. Organize, attend and lead required public hearings on the CLOMR submittal, if required.
8. Provide legal notices regarding the CLOMR submittal, to the State, if required
9. Pay submittal fees for a CLOMR application (if required) and invoice State as a Direct Expense.

The State will:

1. Provide Early Notification Memo and agency responses received to date.
2. Review draft CATEX and provide comments.
3. Conduct any required Environmental Site Assessments and Regulated Waste Assessments.
4. Provide wetland review and determination, if necessary.
5. Obtain existing floodplain models from MnDNR
6. Review proposed conditions floodplain models and provide comments and observations (if any).
7. Submit legal notices for newspaper publication

7. NOISE ANALYSIS (Source type 1071)

The Contractor will provide noise analysis services, done according to 2017 MnDOT Noise Requirements or most current version. The noise analysis will include evaluation of the new bridges, and adjacent ramp and approach work on and over I-90 from TH 105 to the TH 218 South Junction. The Contractor will consult with the MnDOT Environmental Modeling and Testing Unit before initiating noise analysis work to confirm the limits of the Noise Study. Contractor services include noise measurement collection, classified traffic counts, modeling, and preparation of the report. If warranted, Contractor will solicit the opinions of the benefitted receptors, document the results, and provide materials for public meetings. The Contractor will prepare a Noise Report for inclusion in the project's National Environmental Policy Act (NEPA) document.

MnDOT OES Office has concurred that a Type 1 Noise Study is not warranted for this Project. The relevant Noise Analysis scope language in this section is hereby stricken from the Contract.

Current MnDOT Noise Requirements and Guidance available at:
http://www.dot.state.mn.us/environment/noise/policy/index.html

MnDOT Deliverables:

- Confirm limits of noise study and modelling. Assume continuous from TH 105 to TH 218 (S. Jct.)
- Determination and planning for type of public engagement
- Review Comments
- Final plans for other completed projects on the corridor
- Project website
- Traffic Data, if Traffic Analysis is not part of this Scope of Services
- Appropriate geometric information including preliminary layout, profile, cross-sections, and other engineering drawings, if Preliminary Design is not part of this Scope of Services
- Survey data in CADD files, such as TIN files, Utility files, and ROW mapping, if not part of this Scope of Services

- Wetland Delineation, if not part of this Scope of Services
- Geotechnical Investigation including borings, if available and not part of this Scope of Services

8. PERMITS (Source type 1195)

- The Contractor will identify all Local, State and Federal permits or notices required for the project letting and construction. The contractor will draft any required permit applications for State review. The draft permit applications will include all necessary exhibits and supporting data required to provide for a complete permit submittal for each interchange area, including US 218 N and the 2023 Cross-Over Plan (SP 5080-176)

The State will review draft permits and provide review comments to be incorporated prior to agency submittal.

All application fees required for permit submittals will be paid for by the Contractor and invoiced to the State as a Direct Expense.

The following is a list of potential permits/notices/consultation required for the project based on limited information. This list is not all inclusive:

Federal

US Army Corps of Engineers Section 404 Permit

Federal Aviation Administration (FAA) Form 7460-1 Notice of Proposed Construction

State

MPCA Section 401 Water Quality Certification

MnDOT Wetland Conservation Act Approval

MnDNR Public Waters Work Permit

MPCA NPDES Permit

Local

Watershed District Permit or Review

Identify a Floodplain Mitigation site and prepare mitigation plans.

9. SUBSURFACE UTILITY ENGINEERING AND COORDINATION (Source type 1195)

The Contractor will perform a Subsurface Utility Engineering (SUE) investigation for the project in accordance with the MnDOT Utility Accommodation and Coordination Manual.

The Contractor will function as the project manager for the utility coordination process.

The Contractor will review any utility information provided by the State. In addition, the Contractor will perform a Gopher State One Call to identify existing subsurface and above-ground utility facilities within the limits of the proposed project. The Contractor will survey the marked utilities along the project limits and identify the utility owners.

Once the project layout and footprint has been established, the Contractor will review the quality level B information from SUE against the preliminary design. The SUE provider will propose locations for gathering quality level A information based on the conflict points. The Contractor will fill out the Utility Information Sheets (UISs) and each utility owner will be assigned a number and each conflict will also be assigned a corresponding number for each UIS.

The Contractor will schedule a workshop / meeting with each utility owner and appropriate State representatives to update the existing conditions section and verify the proposed resolution section of each UIS. After the workshop, the Contractor will update the UISs electronically and will email them back to the utility owners including a reminder when the UISs need to be returned.

The Contractor will follow all Steps in the State Utility Accommodation and Coordination Manual. Plans and other contract documents prepared by the Contractor for project letting will adhere to the requirements of Utility Coordination Step 12, as detailed in the MnDOT Utility Accommodation and Coordination Manual.

The Contractor will prepare Utility Special Provisions.

Contractor will:

1. Coordinate all steps of the State Utility Coordination process (detailed in the State Utilities Manual) and coordinate the project development with all utility owners that may be affected by the project.
2. Perform Gopher State One Call.
3. Survey field marking along the entire project corridor.
4. Interm QL B SUE Plan submission for verification by utility facility owners.
5. Identify each utility owner / representative.
6. Final QL B SUE Plan Submission once utility facility owners have verified their facilities.
7. Survey and map up to 30 test holes performed by the SUE provider
8. Final Certified SUE Plan submission with test hole information included.
9. Show all inplace utilities on the plan sheets, cross-sections, and in tabulation. Perform a 90 Day Utility Verification and edit tabs as needed.
10. Schedule and conduct utility coordination meetings to coordinate the project development with the affected utility owners and State staff. Prepare agendas, exhibits, and minutes for each meeting (two meetings assumed).
11. Identify conflicts between proposed improvements and inplace utilities and coordinate relocation plan requirements with the utility owners. It is assumed that inplace public utility services will not be upgraded, but those services may require relocation due to impacts of the proposed construction.
12. Submit utility easement information, or other documentation of reimbursement eligibility provided by utility owners, to State.
13. Assumes the addition of the US 218N interchange into the project area.
14. Assumes the extension of 4th Street down to 13th Avenue.
15. Assume the addition of the I-90 Cross-over plan set into the utility coordination process.

State will:

1. Provide available existing utility information.
2. Attend utility information meetings and workshops
3. Issue Notice & Orders to affected utility owners, as needed.
4. Prepare Utility Agreements if Needed

10. PRELIMINARY DRAINAGE DESIGN (Source type 1140)

The Contractor will review recommendations from the State for existing pipes to be replaced or repaired based on condition.

The Contractor will complete a hydraulic analysis for proposed storm sewer, culvert pipes, and ditches for the roadway for the preferred option. Peak discharges will be determined by using the rational method and Atlas 14 data. A drainage area map with contours will be prepared for new culverts, ditches or new storm sewer.

The Contractor will prepare drainage overview maps and a Drainage Design Report as detailed in the State Drainage Manual, Section 1.4.

Based on the staff approved layout for the US 218N interchange, it is assumed that no stormwater ponding will be required at this location.

Contractor will:

a. Review State's scoping pipe recommendations for repairs and replacement of existing pipes
b. Complete hydraulic analysis for proposed storm sewer, culverts and ditches.
c. Prepare and submit existing and proposed drainage overview maps with contours in MicroStation .dgn V8i format.
d. Incorporate proposed drainage into construction limits map completed as part of Task 12.7
e. Prepare Drainage Design Report
f. Incorporate the US 218 N interchange into the work.
g. Incorporate the 4th St extension into the work.
h. Incorporate the median cross over plan (SP 5080-176) into the work.

State will:

1. Provide available hydraulic repair and replacement recommendations along with available HYDINFRA data.

11. GEOTECHNICAL ENGINEERING (Source type 1182)

Soil borings will be completed by the State for all proposed bridge locations, retaining walls, noisewalls, and select roadway locations. FADRS for bridges, retaining walls, and noisewalls will be completed by the State.

The Contractor will provide supplemental borings for completion of the detail design in areas that lack coverage needed for temporary or permanent construction features (i.e. Overhead Sign Structure Foundations, Lighting Towers, HTCB anchors, etc.). The Contractor will plan for up to twenty-five (25) supplemental borings as authorized by the State's Project Manager. Traffic Control required to complete the supplemental borings will be the responsibility of the Contractor. Any supplemental geotechnical design recommendations/FADRS required (i.e. for lighting tower foundations, OH signs, etc.) will be completed by the Contractor for MnDOT review and approval.

Provide a soil boring and piezometer at each potential ponding location.

The Contractor will prepare a supplemental soil boring plan (map) for review and concurrence by the State at least 5 days prior to initiating the supplemental soil investigation field work.

The State will supply a Pavement Determination Letter and Materials Design Recommendation Letter.

All work under this contract including soil boring logs, borings plotted on the geometric layout and cross-sections, soil identification, soil log reports, roadway pavement designs, and the final materials design recommendations letter will be prepared by or under the direct supervision of a Professional Engineer registered in the State of Minnesota and highly knowledgeable in the subject matter.

In general, the work and services to be provided under this Contract will follow the "Consultant Specifications for Soils Surveys, Engineering Analysis, Laboratory and Field Tests" on the MnDOT web site, incorporated herein by reference.

The Consultant will plan to deliver files in Microstation format. Microstation files will not show regions when plotting stations.

Contractor will:

a. Provide supplementary soil borings for areas that are not covered by State furnished soil borings, or where subsurface formations are highly variable and require better definition
b. Provide supplemental geotechnical design recommendations as necessary to supplement or complete temporary or permanent design features
c. Locate and stake supplementary boring locations in the field.
d. Clear utilities using the Gopher State One Call System.

e. Provide traffic control (including flaggers) where necessary. Traffic control must comply with State's D6 Traffic Lane Closure Manual, located here: http://www.dot.state.mn.us/d6/trafficlaneclosuremanual/ and incorporated by reference.
f. Submit supplementary boring location work map for State review and concurrence
g. If required, perform auger borings on proposed roadway alignments. All cores or borings through existing pavement must be backfilled and patched with the same material, i.e. bituminous road then a bituminous patch.
h. Produce field logs for each boring.
i. Produce an electronic boring log file for each boring.

State will:

1. Furnish soil boring information gathered by the State
2. Furnish FADRs for all bridges, retaining walls, and noisewalls (if any)
3. Furnish a Pavement Determination Letter
4. Furnish the Materials Design Recommendation.
5. Review supplemental soil boring plan

12. PRELIMINARY ROADWAYS DESIGN (Source type 1140)

The Contractor will complete the following preliminary roadway design tasks and deliverables.

For the purposes of this work, it is assumed that concept sketches provided by State will be evaluated in this task.

12.1 Concept Evaluation and Development

Concept drawings will be provided by the State for the TH 105 interchange, the TH 218 South Interchange, I-90 bridges over the Cedar River and the CSAH 45/4th St. Interchange. The concept drawings have had little to no public input and are not deemed as Preferred Alternatives for NEPA purposes.

The Contractor will utilize the concept sketches as the basis for starting the NEPA process and will evaluate the concepts, in conjunction with District staff, MnDOT GDSU staff, the general public and other stakeholders as required in reaching consensus on a preferred alternative for each bridge replacement or repair location. The Contractor will consider or propose concept alternatives that allow for improvements to traffic operations, safety, constructability, reduced right-of-way or environmental impacts, or for eliminating design exceptions. Concept alternatives that are considered or proposed will include sufficient geometric detail to allow for evaluation and generally should contain as much, or more, detail as the State furnished concept drawings.

The Contractor will provide methods for seeking public input, determining evaluation criteria, and evaluating alternatives. Contractor will coordinate with State on making final decisions on recommended alternatives to carry into design phase.

12.2 Design Criteria Evaluation

The Contractor will complete design criteria forms for each of the five bridges being replaced and separate forms for each of the ramps on each of the interchange bridges and submit for State review and concurrence. The Contractor will note design exceptions needed and provide alternatives for and/or documentation on increases to construction limits and project cost to eliminate each design exception. Contractor will collaborate with the State and make recommendations. State will consider recommendations and make final decision on project limits and seeking or eliminating the need for design exceptions.

12.3 Preliminary Geometric Layout

The Contractor will prepare a Level 1 Preliminary Geometric Layout for State review when consensus on the concept alternatives has been reached. The Contractor will complete and submit the current version of the layout checklists

before submitting the Preliminary Geometric Layout to the State. The State will review the Preliminary Geometric Layout and provide written comments to the Contractor to be incorporated into the Final Geometric Layout for Staff Approval. The Preliminary Layout will be based on the ~~Tight Diamond~~ SPUI option.

12.4 Preliminary Cost Estimate

The Contractor will prepare a preliminary cost estimate for the entire project and submit it with the Preliminary Geometric Layout review submittal. This cost estimate will be similar in format to MnDOT's LWD method.

12.5 Design Memorandum

The Contractor will prepare a Design Memorandum corresponding to the Preliminary Layout and submit it in conjunction with the layout submittal for State review. Any Design Exception requests will require written justification for the exception. The Contractor will be responsible for providing written Design Exception request justification write-up(s), including any supporting data and exhibits. The State will provide review comments to be incorporated into the final version of the Design Memorandum.

The Contractor will submit the final Design Memorandum with the Final Geometric Layout as detailed in Section 12.6.

12.6 Final Geometric Layout

Upon receipt of Preliminary Geometric Layout review comments from the State, the Contractor will assess the comments for incorporation into the Final Layout. The Contractor will prepare, in writing, a Layout Comment Response Memo detailing a response to each review comment (i.e. will incorporate, needs further discussion, etc.) and will submit the memo to the State before initiating work on the Final Geometric Layout.

Based on the public engagement process, input from the City, and coordination with MnDOT Central Office Geometrics Office, prepare a Final Geometric Layout for the Single Point Urban Interchange (SPUI) option for the 4th Street interchange.

Evaluate the need for a second north bound through lane for the SPUI option at the 4th Street interchange.

Evaluate the need to widen the I-90 shoulders across the proposed Cedar River Bridges to eliminate the need for bridge scuppers.

Evaluate the need to reconstruct the existing retaining wall along the existing southwest ramp at the 4th Street interchange.

Evaluate the feasibility of reconstructing the existing pedestrian bridge which crosses the Cedar River.

Evaluate improving the skew at the TH 105 interchange ramp terminal intersections.

Evaluate options to address slope instability for the south ramps at the US 1218 S interchange.

Evaluate walkway design options at the US 218 S interchange to meet ADA requirements.

Utilize the WB-67 design vehicle for the 4th Street interchange design, except where right of way impacts are generated. In that case, utilize the WB-62 design vehicle at the 4th Street interchange.

Provide for up to two additional layout reviews by MnDOT Central Office Geometrics Unit.

Prepare preliminary design and cost estimate for the 4th Street extension from Hardees to and including the 13th Avenue intersection.

Prepare preliminary design for the median crossovers needed for the MOT plan.

Refine the TH 218 South ADA Design. Design revisions will include ROW coordination, ped ramp design and walkway coordination and design, and drainage design updates.

Refine 4th Street SPUI Design. Design revisions include median design, crown shift, and Hardees access. These revisions will require a profile revision and some other miscellaneous updates.

Revise TH 218 North Layout Design. Design revisions will include revising limits on north and south, profile ties, and shoulder transitions.

Upon the State's concurrence of the Layout Comment Response Memo, the Contractor will incorporate review comments and submit the Final Geometric Layout to the State within 10 working days, or as otherwise approved by the State.

Upon receipt of the Final Geometric Layout Comments from the State, the Contractor will work collaboratively with the State's Project Manager and other State staff to determine adequate responses and will draft written responses for the State's review.

12.7 Construction Limits Map

The State will provide concept layout drawings depicting conceptual construction limits for the Contractor's review. The Contractor will review State District 6 procedure for documenting construction limits. Construction limits drawings will depict the Preliminary/Final Engineered Limit Line (tie-down points) as well as the Preliminary/Final Construction Limits which will take into consideration design, constructability and future maintenance of all roadway features.

The Contractor will prepare a preliminary construction limits map to show with the preliminary layout for review by State District 6 staff. Contractor will discuss construction limits with District 6 Design, Right of Way, Bridge, and Surveys staff as needed. Contractor will utilize District 6 Construction Limits Completion Form Process.docx, dated 7-30-18, for documenting anticipated construction limits.

The Contractor will prepare a final construction limits map associated with the Final Geometric Layout or Staff Approved Layout and will meet with State Staff to review and discuss.

DELIVERABLES

The Contractor will:

1. Evaluate and provide recommendations or alternatives for the Concept drawings
2. Complete and Submit Design Criteria Forms for each bridge and all ramps.
3. Evaluate need for Design Exceptions and provide documentation for cost and construction limit changes to eliminate each Design Exception.
4. Based on the final concept recommendations by the State, prepare and submit Preliminary Geometric Layout, including profiles, preliminary cross sections and preliminary construction limits to the State for review including three hard copies.
5. Prepare and submit an electronic spreadsheet and three hard copies of a preliminary cost estimate for the project for both the US 218N and the 4th Street interchanges and the Cross-over Plan.
6. Prepare and submit a Preliminary Design Memorandum.
7. Prepare and submit Preliminary Layout Comment Response Memo.
8. Prepare and submit Final Geometric Layout including layout checklist.
9. Prepare and submit three hard copies and 1 electronic version (in PDF DGN formats) of Final Geometric Layout with profiles and preliminary cross sections and layout checklist for the State Geometrics Review.
10. Prepare and submit Final Layout Comment Response Memo.
11. Prepare a Final Construction Limits map and submit one hard copy and two electronic copies (PDF, DGN).
12. Complete the District 6 Construction Limits Completion Form Process.docx for both the US 218N and the 4th

Street interchanges and the Cross-over Plan.

The State will:

1. Provide Layout Concepts for Contractor evaluation.
2. Review the Completed Design Criteria Forms and Design Exception documentation and provide final recommendation on eliminating design exceptions.
3. Provide final concept recommendations and direction proceeding with Preliminary Geometric Layout preparation
4. Review the Preliminary Geometric Layouts and provide written comments.
5. Review the Preliminary Cost Estimate and provide written comments (if any).
6. Review the Preliminary Design Memorandum and provide written comments (if any).
7. Provide concurrence on the Preliminary Layout Comment Response Memo(s) when appropriate.
8. Review the Preliminary Construction Limits and provide written comments (if any).
9. Distribute the Final Geometric Layouts for State Geometrics Review.
10. Forward comments from State Geometrics Review.
11. Provide concurrence on the Final Layout Comment Response Memo(s) when appropriate
12. Provide District Construction Limits Handoff process and form for documentation.
13. Provide necessary signatures for documenting Construction Limits handoff to final design.
14. Provide a staff approved layout for the US 218N interchange and all associated base files and design documentation, including an approved Design Memo.

13. INTERSTATE ACCESS REQUEST (IAR) (Source type 1140)

An Interstate Access Request (IAR) is required for the project. The contractor will prepare an Interstate Access Request according to processes outlined in the current version of the Highway Project Development Process (HPDP).

The State will provide a summary of previous coordination efforts with FHWA which will provide additional background for the scope and preparation of the IAR.

The contractor will conduct any additional traffic operational analysis and/or Freeway Modeling needed for the IAR. Highway Capacity Manual (HCM) or Highway Capacity Software (HCS) analysis is anticipated. The Contractor will prepare a brief summary of the operational analysis in an email format.

Prepare a corridor-wide comprehensive traffic technical memorandum which normalizes previous traffic study work for use in design tasks.

Prepare HCS analysis for the US 218 N interchange for FHWA concurrence.

14. DETAIL ROADWAYS DESIGN (Source type 1250)

The Contractor will complete detailed highway design in accordance with the current American Association of State Highway & Transportation Officials (AASHTO) Policy on Geometric Design of Highways and Streets (also known as The Green Book), current AASHTO Roadside Design Guide, current Mn/DOT Road Design Manual, current Highway Capacity Manual, and Federal Highway Administration (FHWA) and Mn/DOT design policies, procedures, practices and standards. All work completed must meet Mn/DOT's Level 2 CADD Standards (as published in the most current CADD Data Standards Manual), including the use of GEOPAK™, Mn/DOT's automated design software. See http://www.dot.state.mn.us/caes/cadd.

Deliverables include a complete and accurate set(s) of Highway Design plans to construct a project that fulfills the Department's intended purpose. Deliverables may include, but are not limited to some or all of the following:

1. Plans, produced using Mn/DOT's Design Standards and Level 2 CADD Standards; (http://www.dot.state.mn.us/caes/cadd)
2. Special Provisions;

3. Estimates;
4. Reports;
5. Feasibility and justification studies, including all related calculations.
6. 3D Modeling surfaces (finished grade, subgrade, and grading grade)
7. Attend up to three pre-bid constructability review meetings with Construction Contractors

Consultant deliverables must include a documented Quality Assurance/Quality Control (QA/QC) plan, and QA/QC reviews of each submittal, including addressing comments from previous reviews, i.e. 30%, 60%, and 95%, reviews.

Upon Staff Approval of the final Geometric Layouts and the Construction Limits Map, the Contractor will initiate Final Highway Design.

Final plans for the US 218N interchange will be included into the overall plan set.

Based on the staff approved layout for the US 218N interchange, it is assumed that no stormwater ponding will be required at this location.

Prepare final plans for the SPUI interchange configuration at the 4th Street interchange.

Prepare final plans for that portion of 4th Street from the southerly entrance to Hardees to and including the 13th Street intersection.

Prepare a separate plan set for the cross over and shoulder work for construction in 2023 (SP 5080-176).

Revise Typical Sections, Cross Section Format, and Plan Format between 30% and 60% submittals.

Sheet Pile/Retaining Wall Pre-loads/I-90 Closures – Coordination time was required to study ramifications of FADR pre-load recommendations on wall design and construction as well as traffic control and constructability.

4th Street Pier Removal. We were asked to prepare a cost estimate for the removal and some shoulder width and staging implications exercises as well. Analysis included lane closures and detours for bridge demo, beam sets, deck pours.

Single Point Perpendicular Crossing – Prepare qualitative and quantitative analysis of feasibility of providing a perpendicular pedestrian crossing within the 4th St. interchange.

4th Street NE Ramp Barrier – Prepare feasibility study and concept alternatives to provide a traffic barrier between the NE ramp at 4th St. and the adjacent trail. Coordinate design options with MnDOT staff.

Project SPs and Funding – Attend four additional meetings with MnDOT Central Office staff to coordinate funding sources. Prepare draft SEQ sheet showing funding column headings.

ADA Design – Provide for three ADA submittals for their review and comments. Address ADA Group comments and facilitate three comment resolution meetings.

ADA Design – Provide for revisions to the Staff Approved Layout to account for comments made which were in conflict with previous guidance.

Add perpendicular pedestrian crossing to the 4th St interchange (Roadway design).

Identify and evaluate options for median drainage at Crossover #3 including limits of median barrier removal and replaced in the final proposed condition.

Prepare approach panel designs for Bridges at TH 105, US 218N, US 218S, and 6th Street. Assumes special concrete mix design for the TH 105 bridge approach panels.

US 218 South Moment Slab – Provide for coordination and structural design to accommodate special traffic barrier type design in SE quadrant of the US 218 S interchange.

Prepare construction plans for the replacement of the pedestrian bridge over the Cedar River (SP 5080-181). Assumes that MnDOT Bridge will prepare the bridge design. Assume a complete ADA system overhaul from 4th St to the ped bridge including the hydraulic modeling, permitting, CATEX update, plans and provisions. Letting date assumed to be late 2025.

Hydraulic modeling for the ped bridge includes: update river modeling and hydraulic memo from SP 5080-170, coordination with local agencies, scour computations, bridge design coordination, and DNR MPARS permit re-submittal. Assumptions are: up to three (3) proposed alternatives will be analyzed, a No-Rise certification is assumed and the FEMA MT-2 LOMR/CLOMR process not required, HEC-RAS modeling only, FEMA MT-2 Modeling process and sequencing will be followed, coordination required with MnDOT Structures Group, MPARS Permit Update Required, and that the clearance will not be made worse. Deliverables are: Hydraulic report, risk assessment, no-rise certification, Scour computations and Bridge Plan Hydraulic Data, and DNR MPARS.

Incorporate Green Sheets commitments into the Plans as separate plan sheets.

Coordinate Concrete to Remain forms with MnDOT Bridge.

Perform Cost Estimating Analysis to determine appropriate cost splits cost cutting measures. Update final plans accordingly.

Ped Bridge: Provide additional river modeling to support Bridge Office bridge and bank design.

Ped Bridge: Revise line, grade, and sections for a shift in the ped bridge location.

Evaluate constructability of the ped bridge in relation to river hydraulics, delivery and erection of the steel ped bridge structure, placement of structure, and include traffic control plans as required.

Provide for additional bidding and Construction Design Support

Design the noise wall along the 4th Street EB entrance ramp and include the noise wall into the ped bridge plan set.

14.1 30% Plans

Includes the design and coordination to develop the 30% plan set which will include the following plan sheets:

1. Title sheet
2. In place utilities and tabulations
3. Preliminary typical sections
4. In place Topo, Utility and R/W Plan
5. Alignment plans
6. Preliminary Construction Plan
7. Preliminary ADA plan
8. Preliminary Construction Staging Plan
9. Preliminary Profiles
10. Cross section sheets including: Inplace and proposed R/W
11. Prepare existing conditions drainage area map, including existing storm drain and culvert infrastructure, hydrologic boundaries, and surface flow directions.

14.2 60% Plans

Includes the design and coordination to develop the 60% plan set which will incorporate 30% comments and include the following plan sheets:

1. Title sheet and general layout
2. Statement of Estimated Quantities (format only, no quantities)
3. Standard plates and chart index
4. Soils / construction notes
5. Typical sections
6. Miscellaneous Details
7. Standard Plan sheets
8. Construction Staging and Traffic Control Plans (Includes Temporary Erosion/Sediment Control Construction plans
9. Alignment plans and tabulations
10. In place Topo, Utility and R/W Plan
11. Removal plans
12. Drainage Plan /Profiles
13. Drainage Standard Details
14. Intersection details
15. ADA Pedestrian Ramp Details
16. Roadway profile sheets
17. Erosion Control Plans
18. Turf establishment plans
19. Signing and Pavement marking plan
20. Pavement marking details and notes
21. Lighting plans
22. Matchline Layout
23. Cross section sheets including:
    a. Inplace and proposed R/W
    b. Existing utilities
    c. Proposed utilities

14.3 95% (Final District Review/Plan Turn-in) Construction Plans

95% Final District Review of the construction plans will include all information needed for Plan Turn-in and be prepared in conformance with the form and content of the items in the bullet list below.

1. District 6 provided sample plan
2. State Level 1 & 2 Computer Aided Drafting and Design (CADD) Standards (http://www.dot.state.mn.us/caes/cadd.html).
3. Minnesota Department of Transportation Road Design Manual (http://www.dot.state.mn.us/design/rdm/index.html).
4. State Office of Traffic, Safety and Operations design guidance (http://www.dot.state.mn.us/trafficeng/designtools/index.html).
5. Minnesota Department of Transportation Utilities Manual (http://www.dot.state.mn.us/utility/files/PDF/policy/utilities-manual-web.PDF).
6. The project's Materials Design Recommendations.
7. The governing storm water treatment regulations.
8. Plan format will be according to requirements in Section 14.
9. Plan review and approvals will follow requirements in Section 14, specifically; plan submittals will be at the following milestones: 30%, 60%, and 95% completion, including plan revisions required by Central Office to achieve the 100% milestone in preparation for letting.

The 95% Final District Review/Plan Turn-in Milestone will represent the Contractor's complete P.S. & E. submittal to the District for the last, formal District review and District signatures prior to plan submittal to Central Office Pre-letting services. The Final District Review of the 95% plan is estimated to take 20 working days. The State's Project

Manager will return comments from the 95% District Review for incorporation. When the revised 95% Plan set is received and all comments have been addressed, the State's Project Manager will obtain any necessary District signatures and submit the P.S. & E. package to Central Office Pre-letting services.

Review by Central Office Pre-Letting will constitute the 100% Plan Review. Changes made to these plans as a result of the State's review will be made and the plans considered 100% Final for letting once all State signatures have been obtained.

The following MicroStation plan sheets will be prepared. Sheets will be combined with the prior consent of State's Project Manager.

1. Title Sheet
2. General Layout
3. Estimated Quantities
4. Soils and Construction Notes
5. Standard Plates
6. Earthwork Tabulation and Summary
7. Tabulations
8. Inplace Utility Tabulations
9. Typical Sections
10. Miscellaneous Details
11. Standard Plans
12. Inplace Topography and Utility Plans
13. Removal Plans
14. Construction Plans and Profiles
15. ADA/Pedestrian Facilities Plans
16. Bituminous Paving Plans
17. Superelevation Plans
18. Storm Water Pollution Prevention Plan (SWPPP)
19. Drainage Plans, Profiles, and Tabulations
20. Turf Establishment Plans
21. Erosion Control Plans
22. Construction Staging Plans
23. Traffic Control Plans and Tabulations
24. Striping Plans and Details
25. Signing Plans and Details
26. Lighting Plans and Details
27. Signal Plans and Details
28. Cross Sections

The Contractor will:

1. Submit 30% Plans for State Review
2. Respond to 30% Plan Review Comments
3. Submit 60% Plans for State Review
4. Respond to 60% Plan Review Comments
5. Submit 95% Final (District Review) Plans for State Review
6. Respond to 95% Plan Review Comments
7. Respond to 100% Final Plan review by Central Office Pre-letting Services.

The State will:

1. Provide District specific construction details
2. Provide a Sample Plan
3. Provide plan review comments in written form for each of the plan submittals.
4. Submit 95% Plan to Central Office Pre-letting services

5. Prepare bid proposal
6. Provide design files and *.gpk files for current concept layout.

15. PRELIMINARY BRIDGE ENGINEERING AND DESIGN (Source type GEOM)

Contractor will perform necessary engineering and design to determine the type, size, location and geometrics of the required bridge. Contractor will perform all of the necessary number of concept iterations to determine the proper bridge structure depths. Structure depths and profile grades will be iterated together to provide the minimum required vertical clearance while not providing excessive additional clearance above the minimum requirements. Preliminary bridge design will be conducted with consideration of roadway geometrics, clear zone requirements, appropriate shoulder widths, required site distance, required clearance from overhead power transmission lines, hydraulic requirements, staging needs, economics, oversized/overweight corridor and all other project constraints. The District 6 Project Manager will be copied or notified of all significant correspondence. State's Bridge Office will attend project meetings and respond to Contractor inquiries.

No ABC analyses or designs will be required.

15.1 Aesthetics

Bridge aesthetics will be established in collaboration with State and require approval by the MnDOT Bridge Office

15.2 Bridge Surveys

State will provide survey information to Contractor. Contractor will perform any additional survey work needed to support analysis and prepare the bridge survey sheets. The Contractor will be required to prepare Bridge Survey Sheets for submittal to the Preliminary Bridge Unit.

15.3 Bridge Concept Development

State will provide an initial roadway concept for each location which are to be used for developing bridge concepts. Contractor will develop up to three concepts for Bridges 6868/6869, three concepts for Bridge 9180, three concepts for Bridge 9183, and three concepts for Bridge 9201. The initial concepts may be sketch level drawings on an aerial photograph base and consider alignment, bridge type, and hydraulic performance, where applicable.

Evaluate and prepare concept bridge and wall design for a SPUI interchange configuration at the 4th Street interchange.

Evaluate and prepare concept retaining wall design adjacent to the Cemetery.

The Contractor will collaborate with the State and perform all of the necessary number of concept iterations to determine the appropriate structure depths, which will be iterated together with profile grades to provide the minimum required vertical clearance while not providing excessive additional clearance above the minimum requirements. Each intermediate concept will be evaluated based on alignment, bridge type, hydraulic performance, and cost effectiveness.

The Contractor will develop a set of measurable screening criteria to highlight differences between each intermediate concept based on differentiating elements such as (but not limited to) hydraulic capacity, flood stage increase (or decrease), constructability, environmental impacts, right of way requirements, construction costs, life-cycle costs, etc. Stakeholder concerns will be considered while developing screening criteria. The State will provide approval of the final screening criteria.

The Contractor and State will work collaboratively to apply the concept screening criteria in order to identify a preferred alternative for each bridge replacement. Roadway concepts developed in Section 6.0 must be considered in the selection of preferred bridge alternatives.

The expected outcome of Task 15.3 is a Bridge Type Selection Report for each bridge replacement which presents the initial concepts, the intermediate concepts evaluated in the screening process, summarizes the screening process, and provides a preferred alternative for each bridge replacement, including roadway approach information.

15.4 Bridge Hydraulics

As part of the Bridge Concept Evaluation, the Contractor will conduct an initial hydraulics analysis for each Bridge 6868 and 6869 concept and detailed floodway/floodplain analysis including a Hydraulics Memo and a Risk Assessment for each intermediate concept for the replacement of Bridges 6868/6869. Currently there is a detailed Flood Insurance Study (FIS) and associated mapped floodplain/floodway boundaries in effect for Bridges 6868/6869 and the local vicinity. The preferred bridge replacement should avoid or minimize any floodplain/floodway encroachments and/or 100-year stage increases. Avoiding stage increases and floodway impacts that would result in a Conditional Letter of Map Revision (CLOMR) will be given prime consideration during concept development for Bridges 6868/6869. A summary of the hydraulics analyses for the initial and intermediate replacement alternatives for Bridge 6868/6869 will be documented in the Bridge Type Selection Report described in Section 15.3.

Add up to two cross sections in the HEC-RAS model, per direction from and coordination with MnDNR.

Reconcile data in different models to develop approved model.

Update hydraulic modeling for new pier locations, coordinate changes with all affect agencies, document revisions in hydraulic memo.

15.5 Foundations

The Foundation Analysis and Design Recommendations (FADR) will be provided by State's Foundations Unit. At this time, it is assumed that foundations for all crossings will be pile supported.

15.6 Aesthetic Design Review

For this review, Contractor will incorporate aesthetic design elements into the General Plan and Elevation Sheet(s) and submit to the Bridge Office Project Manager for review. In contact with the State's Preliminary Bridge Plans Unit, Contractor may proceed with design during this review. State will provide comments within 10 days. Contractor will incorporate agreed upon revisions for inclusion in the aesthetics sheet(s) for the Final Preliminary Plan.

Evaluate facia panel design to eliminate the need to divert traffic during construction.

Evaluate options to resurface existing retaining wall along the SW ramp of the 4th St interchange. Provide a recommendation to MnDOT. Incorporate recommended option into the final plans and specifications.

Cemetery Fencing – Evaluate option to replace decorative fencing along cemetery property. Incorporate recommended option in the final plans and specifications.

15.7 30% Preliminary Bridge Plan

Upon approval of the preferred alternative for each bridge by the State, the Contractor will conduct necessary engineering and design to determine the location and geometrics of the bridges. Preliminary design will be conducted with consideration of roadway geometrics, clear zone requirements, appropriate shoulder widths, required site distance, hydraulic requirements, staging needs, and any other identified project constraints.

Prepare Preliminary Bridge and retaining wall plans for the SPUI interchange configuration at the 4th Street interchange.

The 30% Preliminary Bridge Plan must include, at a minimum:

- General Plan and Elevation Sheet(s)
  - General Plan and Elevation
  - Profile of Finished Bridge Deck
  - Design Data
  - Proposed Type of Structure Block
  - Title Block
- Proposed alignment, profile grades, structure type, and substructure location;

- Electronic MicroStation and Geopak files (coordinate correct) to support design;

Contractor will submit two copies of the 30% Preliminary Plan to State for review. State will return the 30% Preliminary Plan with red-lined comments within 10 working days. Contractor will incorporate agreed upon revisions for inclusion in the Aesthetic Design Review submittal.

Contractor submittal of supportive electronic files will including a Digital Terrain Model (TIN) file, MicroStation files containing planimetric mapping (APL, PLN), MicroStation files showing the location of in-place utilities and other surveyed field input (FIP), and a Geopak (GPK) file containing the chains, profiles, and shots of other surveyed features in the project area.

15.8 Final Preliminary Bridge Plan

The Final Preliminary Plan will show the general dimensions, elevations, sections, aesthetic features, survey information, foundation borings and design data. It will include:

- General Plan And Elevation Sheet
  - General Plan and Elevation
  - Profile Of Finished Bridge Deck
  - Design Data
  - Utility Conflicts
  - Proposed Type Of Structure Block
  - Projected Traffic Volumes
  - Title Block
- Bridge Survey Sheet
  - Contracted Profile
  - Plat and Index Map
  - Typical Roadway Sections (at approach panel termini)
  - Engineers Observations
  - Hydraulic Recommendations
  - Bench Mark Data
- Foundation Sheet
  - Boring Plan
  - Geotechnical Boring Logs
  - Existing Footing Locations
  - Proposed bridge location
  - In-place (and Proposed) Utility Locations
- Other Sheets and Details
  - Substructure Sheets
  - Superelevation Sheets
  - Staging Details
  - Aesthetic Details
  - Construction Plan
  - Alignment Tabulations

Contractor will submit two hard copies of the Final Preliminary Plans and refined cost estimates to State for review. State will return the Final Preliminary Plans with red-lined comments within 10 working days. If necessary, Contractor will incorporate State's comments/revisions and re-submit the Final Preliminary Plans to State, including the finalized Checklist for Preliminary Plans. Contractor will also provide the Final Preliminary Plan sheets in MicroStation format which must be directly reproducible. All internal and external reference files will be detached.

Contractor must also submit one bound hard copy of certified design calculations and quantities and one electronic copy of the design and cost estimate calculations and quantities.

Contractor must also submit appropriate electronic files with the Final Preliminary Plans, including a Digital Terrain

Model (TIN) file, MicroStation files containing planimetric mapping (APL, PLN), MicroStation files showing the location of in-place utilities and other surveyed field input (FIP), and a Geopak (GPK) file containing the chains, profiles, and shots of other surveyed features in the project area.

Preliminary and Final Retaining Wall Plans

The Retaining Wall Plans will show the general dimensions, elevations, sections, aesthetic features, survey information, foundation borings and design data.

Revise preliminary bridges plans for Bridge #s 50812 & 50813 to account for the shift in pier location recommended by MnDOT Bridge. This also includes updating hydraulic modeling to account for the pier shifts.

Provide for coordination and permitting of temporary of staging conditions. Coordination includes SRF, MnDNR area hydrologist, MnDOT Structures, USACE and DNR/MnDOT Liason (Peter Leete). Conditions will be reflected in a permit acquired with design. SRF will complete the permit coordination application. County will acquire the permit. Permit will be conveyed and completed by the contractor upon approved shop plans and hydraulic modeling modeling reivewed by permitting agencies. Requirements of the construction methods/guidelines will be detailed in the roadway plans and special provisions, Division S, and bridge plans. Hydraulic modeling of varying flood protection of construction methods.

Evaluate facial panel design needs and revisions from VQM.

Structural design for monotube bridge for 4th St signal.

Approach panel design.

Prepare retaining wall type study for 4th St interchange area.

Prepare design for moment slab for barrier along WB exit ramp.

Contractor Will:

1. Provide up to three initial bridge replacement concepts for each of Bridges 6868/6869, 9180, 9183, and 9201.
2. Perform and provide detailed floodplain analyses for the intermediate replacement concepts for Br. 6868 and 6869 including Hydraulics Memo and Risk Assessment for each intermediate and preferred bridge replacement alternative.
3. Perform Aesthetic Design Review and provide general plan and elevation view showing proposed aesthetic details.
4. Prepare and submit 30% Preliminary Bridge Plans for 6868/6869, 9180, 9183, and 9201.
5. Respond to State comments on 30% Preliminary Bridge Plans
6. Prepare and submit two hard copies and digital copy (Microstation/Geopak) of Final Preliminary Bridge Plans
7. Respond to State comments on Final Preliminary Bridge Plans
8. Resubmit Final Preliminary Bridge Plans if necessary
9. Prepare and submit preliminary Cost Estimates.
10. Submit design calculations, quantities, and survey files.

State Will:

1. Approval of concept screening criteria.
2. Work collaboratively to identify preferred bridge replacements.
3. Review of Hydraulics Analyses, Hydraulic Memos, and Risk Assessments.
4. Geotechnical Investigation/Recommendation Report for bridges and walls.
5. Working copies of electronic design files (Microstation, Geopak).
6. Working sketches of Plan and Elevation Sheets (if available)
7. Visual Quality Design Guide
8. Foundation Investigation Report for bridges and walls.
9. Foundation Recommendations for bridges and walls.

10. 30% Plan comments, Aesthetic Design Review comments, and Final Preliminary Plan comments
11. Signature and distribution of the Final Preliminary Plan
12. Provide current hydraulic modeling

16. INTERSECTION CONTROL EVALUATION, SIGNAL DESIGN, SIGNING DESIGN, LIGHTING DESIGN

16.1 Intersection Control Evaluation (ICE) (Source type 1808)

The Contractor will complete an ICE Report for the eastbound on/off ramp intersection at 4th St. /CSAH 45, and the westbound on/off ramp intersection at 4th St./CSAH 45. It is assumed that no ICE reports are need for the US 218N interchange.

The Contractor will make recommendations for the control used based on the technical recommendation contained within the ICE, as well as Social, Economic and Environmental impacts, documented during the

16.2 Signal Design (Source type 1251)

If a traffic signal is determined to be the appropriate control, the Contractor will design traffic signals at the eastbound on/off ramp intersection at 4th St./CSAH 45, and the westbound on/off ramp intersection at 4th St./CSAH 45.

Prepare the traffic signal design for a SPUI interchange configuration at the 4th Street interchange.

Add perpendicular pedestrian crossing to the 4th St interchange.

Revise 4th Street signal locations per direction from MnDOT ADA office.

16.3 Lighting

Standard interchange lighting will be designed at the 4th St. and the US 218N interchanges as ~~a~~ replacements for the existing lighting systems. Aesthetic designs will be coordinated with the City of Austin and MnDOT.

Determine the need for lighting replacement at the TH 105 and 21st interchanges and design replacement lighting systems, if required.

Design temporary lighting systems for installation at each median cross-over location for SP 5080-176.

16.3a Signing

Prepare final plans for OH sign on WB I-90 east of 21st Street. Obtain soil boring in the proposed sign location. Prepare FADR and obtain approval from MnDOT.

Design temporary OH signs for traffic control.

16.5e Lighting

Coordinate with MnDOT and City Staff to determine ownership and circuiting needs. Coordinate with Austin Utilities to determine type of electrical service requirements. Coordinate with bridge designers for specific conduit and structural needs.

Design separate City owned lighting circuit from MnDOT owned circuit and replace outdated cabinets.

The Contractor will:

1. Submit Draft ICE Report for locations identified for State review.
2. Revise Draft ICE Report based on comments received.

3. Submit a final ICE Report.
4. Coordinate with the State to provide final recommendation for Intersection Control.
5. If required, complete Draft Signal Design for State Review.

The State will:

1. Review the draft ICE Report and provide comments.
2. Provide concurrence on appropriate Intersection Control for all locations.
3. Provide comments on Draft Signal Design
4. Coordinate with internal MnDOT staff regarding traffic control and construction staging and assist the Contractor in resolving issues.

17. MAINTENANCE OF TRAFFIC (MOT) (Source type 1808)
17.1 Review Scoping MOT Study

The State will provide the Contractor with a copy of the MOT Study completed during scoping that looked at staging options and included a recommendation for final construction staging. Contractor will review and make comments on the study including recommendation to proceed with proposed alternative, OR propose a modified MOT concept for State review and concurrence.

17.2 Traffic Management Plan (TMP)
The Contractor will prepare a basic TMP utilizing the State's checklist. A draft TMP will be submitted for the State's review. The State's comments will be incorporated into a final TMP document. No traffic modeling will be required.

Prepare a TMP for an October 2023 letting.

Conduct up to three meetings with construction contractors to gain input regarding constructability and construction durations.

Conduct an ADA assessment of pedestrian detour routes

17.3 Meetings
The Contractor will hold up to four meetings with the State and select stakeholders to discuss construction staging and MOT requirements at a time under the discretion of the MnDOT Project Manager. The Contractor will provide meeting agendas, exhibits, and minutes. Meetings will be held at State District 6.

The Contractor will:

1. Review MOT scoping study and submit comments to State.
2. Prepare and submit a draft TMP for State review.
3. Revise the draft TMP based on State review comments.
4. Submit a final TMP.
5. Hold up to ~~eight~~ 14 MOT Meetings.
6. Provide agenda, exhibits, and minutes for the MOT Meetings.
7. Include the US 218 N interchange in the TMP.
8. Include the median cross-overs in SP 5080-176 in the TMP.

Pedestrian Detour Routes – Identify, analyze, and evaluate pedestrian detour routes to be used during construction during bridge closures. Coordinate temporary pedestrian routes with MnDOT, the City of Austin, and the local cemetery. Temporary detour route locations include TH 105, US 218 N, 4th Street, and US 218S.

Adjust 4th Street Bridge demo traffic control to meeting City and County needs.

The State will:

1. Provide Contractor with a copy of the MOT study completed during scoping
2. Review the draft TMP and provide comments.
3. Attend MOT Meetings.
4. Coordinate with internal MnDOT staff regarding traffic control and construction staging and assist the Contractor in resolving issues.

18. RIGHT OF WAY SERVICES
18.1 Pre-Acquisition (Source type 1210)

For the work specified below, it is assumed that 22 parcels will need to be processed at the 4th St. interchange, 6 parcels at the 21st interchange, and 8 parcels at the TH 105 interchange, 4 parcels at the US 218N interchange, 3 parcels at the 13th Avenue intersection, 2 parcels at the ped underpass approaches, for a total 45 parcels.

The Contractor will perform the following pre-acquisition activities including:

Field Title Investigation
State's OLM Legal and Real Estate Conveyance Unit will complete Certificates of Title for each affected tract. Contractor will obtain the County Assessor's estimate of fair market value for each parcel. Contractor will obtain all tax and special assessment information along with the agency levying the tax or assessment. Contractor will set up a meeting with State's District Real Estate Representative to review field title investigation procedures. Contractor will perform a field title investigation for each parcel, which will be completed by a professional Real Estate Specialist experienced in the area of title investigations. Contractor's Field Title Investigation Agent will verify ownership and nature of interest of the fee owner, contract for deed vendee, or other interests in the property by personal visit for parcels where ownership is local in nature. Contractor's Field Title Investigation Agent will consult with State's District Real Estate Representative on how to proceed with field title investigations for non-local ownership. Contractor will maintain close communication with State's Project Manager, as some modification of the R/W work map will be necessary due to landowner's concerns expressed to Contractor's Field Title Investigation Agent.

Develop R/W Work Map

Contractor will meet with State's District R/W Staff to discuss and review R/W layout procedures. The Contractor will familiarize his/her personnel with the policy and procedures of State's R/W Manual Section .000 to .600. Contractor will obtain existing project information.

Contractor will place proposed R/W on drawings using guidelines found in State's R/W Manual, and CADD Standards Manual with additional information to be supplied by State's District R/W and Survey Office. Contractor will calculate proposed new R/W boundary corners (B-points) using GEOPAK COGO based on the work map electronic file.

Prepare Parcel Sketches

Contractor will prepare a colored sketch of each parcel using a clip from the MicroStation work map (.wkm) CADD file following State's District R/W Office guidelines for parcel sketch preparation.

Final Plats

The State will complete Final Plats for the Project. Will furnish all deliverables within this scope of work to allow for the timely submission of the Plats.

Prepare R/W Package

Contractor will prepare a Staff Authorization Map depicting the listed information shown in State's R/W Manual. Contractor will prepare a cover letter (State Form 25294) and Request for Authorization Form (signature). District's Land Surveyor will authorize and provide signature on Request for Authorization form indicating that land ties are correct as indicated on the map. Contractor's Design Engineer will authorize and provide signature that construction limits are correct as indicated on the map. Contractor's Project Manager will authorize and provide signature that R/W

limits are in accordance with the map. Contractor will coordinate with State's Project Manager to obtain State's Transportation District Engineer's signature on the Request for Authorization form. Contractor will complete the R/W Package.

Contractor will send one copy of all R/W Package items to State's Project Manager as well as meet with State's Project Manager to review the R/W Package prior to submittal to State's OLM. Contractor will send the original and one copy of the R/W Package to State's OLM, and will retain one copy for the project file.

Electronic File Submission

Contractor will submit all electronic data associated with the R/W Work Map to State's OLM. Contractor will also send a copy of all electronic files to State's District R/W Office and retain one copy of all electronic files. All electronic files will be in a format compatible with State's CADD Data Standards. Contractor will submit a text file describing all naming conventions Contractor will use in supplying electronic data to State's OLM.

Perform Appraisals

Contractor will coordinate one meeting with State's Appraisal Supervisor and State's Project Manager prior to the start of the appraisal work. Contractor will use appraisers who are on the State's Contract Fee Appraiser list. The OLM Appraisal Supervisor, prior to the start of the appraisal work, will approve Contractor's appraisal fees. Contractor's Real Estate Appraiser must hold a valid Minnesota Real Estate Appraiser license and will be governed by the ethics provision of the Uniform Standards of Professional Appraisal Practice.

State's OLM will convene a meeting four to six weeks before the hearing on petition to determine which parcels that have not been acquired need a complete before and after appraisal. The group will consist of Contractor's Eminent Domain Engineer and Direct Purchase Agent, State's Project Manager and State's OLM Appraisal Supervisor and the Assistant Attorney General assigned to the eminent domain action. Contractor will be responsible for assigning the updated appraisal report request on those parcels that are not likely to settle. Contractor will perform a before and after appraisal on parcels placed into an eminent domain action.

18.2 Right of Way Acquisition

The Contractor will perform all acquisition activities including the following major work tasks:

Direct Purchase **(Source type 1240)**

Contractor will submit Direct Purchase Agent's experience and qualification for review and approval by State's Project Manager prior to performing the direct purchase work. Contractor will perform direct purchase work using a professional Real Estate Agent who is experienced in the area of real estate negotiations. Contractor's Project Manager will certify that the Direct Purchase Agent has no personal interest in properties being acquired. Contractor's Direct Purchase Agent will meet with State's Project Manager and State's District Real Estate Representative to review direct purchase procedures prior to starting the direct purchase work. Contractor will conduct all direct purchases in accordance with State's R/W Manual and the 49 CFR Part 24 – Uniform Relocation Assistance and Real Property Acquisition Regulations. Contractor's Direct Purchase Agent will contact all property owners and perform all the functions necessary to acquire the needed R/W by means of direct negotiations. All offers will be made in person. No offers by mail are acceptable unless approved by State's District Real Estate Representative. Contractor will allow the property owner a reasonable length of time (generally 30 days minimum) to consider the direct purchase offer. All completed direct purchase files will be returned to State's District Real Estate Representative. The eminent domain process will be initiated at a minimum of six months ahead of the project letting date. Contractor will have all direct purchase offers made prior to the initiation of the eminent domain. Contractor will prepare a temporary direct purchase file for all files not yet acquired at the time of initiation of eminent domain.

Contractor's Direct Purchase Agent may recommend an administrative settlement memorandum where appropriate. Contractor will attend all meetings with State's Project Manager, Director of State's OLM and Minnesota Attorney General's Office.

Design Changes

Contractor will submit any R/W Package revisions to State's Project Manager for approval. Contractor will perform all necessary work required to submit an amended R/W Package to State's OLM. Contractor will work with State's Project Manager and Assistant Attorney General to prepare any revisions.

Eminent Domain - Condemnation

Contractor will assign a registered professional Civil Engineer for the legal action. Contractor will provide necessary engineering and technical support for the Attorney General. Contractor will attend all meetings with Assistant Attorney General. Contractor will assist the Attorney General in preparing for the hearing on petition. Contractor will be prepared to provide engineering testimony. After the hearing on petition, Contractor's Direct Purchase Agent may continue negotiations if there is a possibility of a reasonable settlement with property owners not included in eminent domain action.

Contractor's Engineer will attend district court's oath of commissioners meeting along with the Assistant Attorney General. Contractor's Engineer will be prepared to schedule viewings at oath meeting. Contractor's Engineer will coordinate staking of properties for viewing with Contractor's Surveyor. Contractor will prepare exhibits for all hearings. Contractor's Engineer will attend pre-hearing meetings with Assistant Attorney General. Contractor's Engineer will submit a written report on the hearing to the Director of State's OLM. Contractor's Engineer will approve and submit commissioner's daily fee reports. Contractor's Engineer will attend all pre-trial hearings. Contractor's Engineer will prepare a settlement memorandum to the Director of State's OLM. Contractor will obtain approval of appeal/no appeal recommendation from State's Project Manager. Contractor will submit the settlement memorandum to the Director of State's OLM. Contractor's engineer will discuss trial aspects with Assistant Attorney General. Contractor's Engineer will prepare materials for the trial.

Contractor's Engineer will be prepared to give engineering testimony in court. Contractor's Engineer will conduct a jury viewing of the property in litigation. Contractor's Engineer will prepare a summarization memorandum of trial to the Director of State's OLM.

Contractor will:

1. Continue the Attorney's Certificates of Title for all necessary updates. A licensed attorney or abstractor must complete the continuations of the Certificates of Title.
2. Obtain County Assessor's estimate of fair market value for each parcel and place on State's Market Data form.
3. Obtain all tax and special assessment information along with agency levying the tax or assessment.
4. Perform a field title investigation for each parcel using a professional Real Estate specialist experienced in the area of title investigation and approved by State's Project Manager.
5. Set up and attend meeting with State's District Real Estate Representative.
6. Verify ownership and document concerns of property owners affected by project with personal visit to parcels where ownership is local in nature.
7. Consult with State's District Real Estate Representative on direction when ownership is non-local.
8. Modify R/W work map with pertinent changes due to landowners concerns.
9. Provide gathered project information.
10. R/W Work Map.
11. Identify gaps and overlaps and prepare separate parcels for State's OLM.
12. Layout of proposed new R/W.
13. GEOPAK parcel report.
14. Schedule and attend meeting on development of R/W Work Map.
15. Prepare and submit parcel sketches.
16. Legal Descriptions for each parcel.
17. Staff Authorization Map and cover letter (State Form 25294).
18. Request for Authorization with State's District Land Surveyor, Design Engineer and Project Manager's signatures.
19. Coordinate with State's Project Manager to obtain State's Transportation District Engineer's signature.
20. R/W Package with all items as listed above.
21. Attend meeting with State's Project Manager to review R/W Package.

22. Submit R/W Package (original and one copy) to State's OLM.
23. Electronic data associated with the R/W work map to State's OLM.
24. Electronic data associated with the final plats to State's OLM.
25. Copy of electronic files to State's District R/W Office.
26. Text file describing naming conventions used.
27. Submit appraisals to State's District Real Estate Representative.
28. Coordinate one meeting prior to starting the appraisal work.
29. Identify potential MDAs.
30. Schedule and attend meeting to determine which parcels need a complete before and after appraisal.
31. Assign updated appraisal report request on parcels not likely to settle.
32. Perform a before and after appraisal on parcels placed into an eminent domain action. A second appraisal may be required on all parcels valued at more than $250,000.00.
33. Perform direct purchase work.
34. Submit Direct Purchase Agent's experience and qualifications for approval.
35. Certification that Contractor's Direct Purchase Agent has no personal interest in properties being acquired.
36. Attend meeting to review direct purchase procedures.
37. Present direct purchase offers to parcel owners in person.
38. Submit Direct Purchase files for approval.
39. Prepare a temporary direct purchase file for all parcels not acquired with information as listed above.
40. Recommend an administrative settlement memorandum where appropriate.
41. Provided updated status reports to State's Project Manager.
42. Attend meetings with State's Project Manager, Director of State's OLM, and Attorney General's Staff.
43. Submit R/W Package revisions for approval in the form of a minor change or amendment.
44. Perform work necessary to submit amended R/W information as listed above for approval.
45. Work with State's Project Manager and Assistant Attorney General to prepare revisions.
46. Amend and record new plats as needed.
47. Amend valuations and certifications as needed.
48. Assign a registered professional Civil Engineer to the legal action.
49. Provide necessary engineering and technical support for Attorney General.
50. Attend meetings with Assistant Attorney General.
51. Assist Attorney General in preparing for the hearing on petition.
52. Prepare to provide engineering testimony.
53. Continue negotiations if possibility of reasonable settlement with property owners not included in eminent domain action.
54. Attend district court's oath of commissioners meeting.
55. Be prepared to schedule viewings at oath meeting.
56. Coordinate staking of properties for all viewings.
57. Stake properties for all viewings.
58. Re-stake parcels for all viewings by court.
59. Prepare exhibits for hearings as listed above.
60. Attend pre-hearing meeting with Assistant Attorney General.
61. Submit written report on hearing to Director of State's OLM.
62. Approve and submit commissioner's daily fee reports.
63. Attend pre-trial hearings.
64. Prepare a settlement memorandum.
65. Obtain approval of appeal/no appeal recommendation from State's Project Manager.
66. Submit settlement memorandum to Director of State's OLM.
67. Discuss trial aspects with Assistant Attorney General.
68. Prepare materials for trial.
69. Prepare to give engineering testimony in court.
70. Conduct jury viewing of property in litigation.
71. Prepare summarization memorandum of trial.

State will:

1. Provide Existing Right of Way and Easements (.DGN format).
2. Certificates of Title for each affected tract from State's OLM Legal and Real Estate Conveyance Unit.
3. All necessary continuations and corrections of Certificates of Title.
4. Provide direction when ownership is non-local in nature.
5. Attend meeting on field title investigation procedures.
6. Provide form and format.
7. Provide electronic land survey files including existing R/W, section and quarter corner locations, and section, quarter and sixteenth lines.
8. Provide Title Certificates of affected tracts.
9. Consult with Contractor's registered land surveyor regarding placement of subdivisions.
10. Review of GEOPAK point storage format and procedures.
11. Prepare Certificates of Title for gap and overlap parcels.
12. Attend meeting on development of R/W Work Map.
13. Provide a copy of State's District R/W Guidelines.
14. Furnish State Form 25294.
15. Furnish Request for Authorization form.
16. Furnish State's Transportation District Engineer's signature on Request for Authorization form.
17. Attend review meeting of R/W Package.
18. Submit appraisals to State's OLM for review and certification.
19. Determine additional appraisals that may be required.
20. Supply example MDAs.
21. Approve all MDAs.
22. Review all appraisals.
23. Determine an estimated market value of the property.
24. Convene a meeting to determine which parcels need a complete before and after appraisal.
25. Provide All Certificates of Title necessary for R/W acquisition services.
26. Approve Contractor's Direct Purchase Agent.
27. Prepare a direct purchase file for each parcel to be acquired.
28. Provide examples of administrative settlement memoranda.
29. Schedule and attend meetings with Contractor, Director of State's OLM, and Attorney General's Office.
30. Approve R/W Package revisions.
31. Approve amended R/W information.
32. Request eminent domain proceedings.
33. Provide sample hearing report.
34. Provide appeal/no appeal recommendation.

19. VALUE ENGINEERING STUDY PARTICIPATION (Source type 1140)

The Contractor will provide up to two individuals to assist in a Value Engineering Study for the project. The Contractor will not be part of the VE team conducting the study. The VE Study will be conducted under a separate contract involving participants who are not actively involved in delivery of the project. The Contractor will assist the State as necessary to facilitate a successful VE Study. Contractor participation will include presenting the project on the first day of the VE study and attending a presentation on the last day of the VE study. The Contractor will assist the State in assembling data, other background information and exhibits as needed for the VE study, as well as responding to inquiries during the VE study. The Contractor will review VE proposals and provide technical input and evaluation on submitted proposals. The Contactor will review the draft VE Study report and provide comments to the State in a timely fashion.

Contractor will:

1. Assist in the Value Engineering Study effort and attend VE meetings as necessary
2. Meet with MnDOT District 6 staff prior to the start of the VE Study.
3. Provide data, reports, respond to inquiries and provide other background materials to the VE Study Team as

necessary
4. Review VE proposals and provide technical input and evaluation
5. Review the draft VE Study report and provide comments to the State
6. Incorporate VE recommendations as directed by the State.

State will:

1. Schedule and conduct Value Engineering Study

20. ROADWAY AND BRIDGE DESIGN COORDINATION (Source type 1010)

20.1 Coordination

State will provide Bridge Office Project Manager(s) to coordinate with the Contractor's Project Manager for communication between bridge and roadway design. It is expected the Contractor will provide on-going review of the roadway and bridge design to ensure accuracy and consistency between the roadway and bridge elements. The Contractor may coordinate directly with the Bridge Office Project Manager(s) after notifying the State Project Manager. The Contractor will provide documentation of conversations with Bridge Office Project Manager(s) to the State Project Manager. The Contractor will keep a running log of conversations for review by the State Project Manager.

21. Independent Cost Estimate – Layout (30% Design)

Prepare a Contractor Style Construction Cost Estimate at the 30% plan milestone submittal. It is assumed that the US 218 N interchange will be included in this analysis. This work will include a bottoms-up style estimate based on Staff Approved Layouts, approximate 30% design, a project scope narrative, conversation with designers, and independent quantities check.

Develop quantities using On-Screen Take-Off and estimate built in HCSS Heavybid using standard MnDOT bid items. Basis of Estimate report will document approach to project and assumptions used in estimate development.

Contractor will:

1. Prepare a Contractor Style Construction Cost Estimate and Schedule Review at the 30% plan milestone submittal
2. Prepare a bottoms-up style estimate based on Staff Approved Layouts
3. Provide an independent quantities check
4. Provide the following deliverables at the 30% level of completion: Basis of Estimate, Estimate Reports, Meeting to Review Estimate.

State will:

1. Review and provide comment on Contractor Style Construction Cost Estimate

22. Contract Time Schedule - Layout (30% Design)

Prepare a Contractor Style Schedule Review at the 30% plan milestone submittal. It is assumed that the US 218 N interchange will be included in this analysis.

Develop Critical Path Method (CPM) Contract Time Schedule, in Primavera P6, based on Staff Approved Layout and quantities/production rates from SRF developed independent cost estimate.

Contractor will:

1. Prepare a Contractor Style Schedule Review at the 30% plan milestone submittal
2. Provide the following deliverables at the 30% level of completion: Proposed staging/phasing restrictions, access requirements, proposed completion dates.

State will:

1. Review and provide comment on Contractor Style Schedule Review

23. Independent Cost Estimate - 60% Design

Prepare a Contractor Style Construction Cost Estimate at the 60% plan milestone submittal. It is assumed that the US 218 N interchange will be included in this analysis. This work will include a bottoms-up style estimate based on the 60% design, a project scope narrative, conversation with designers, and independent quantities check.

Develop quantities using On-Screen Take-Off and estimate built in HCSS Heavybid using standard MnDOT bid items. Basis of Estimate report will document approach to project and assumptions used in estimate development.

Contractor will:

1. Prepare a Contractor Style Construction Cost Estimate at the 60% plan milestone submittal
2. Prepare a bottoms-up style estimate based on Staff Approved Layouts
3. Provide an independent quantities check
4. Provide the following deliverables at the 60% level of completion: Basis of Estimate, Estimate Reports, Meeting to Review Estimate.
5. Verify bridge estimated costs provided by MnDOT with respect to FADR and schedule requirements.

State will:

1. Review and provide comment on Contractor Style Construction Cost Estimate

24. Contract Time Schedule - 60% Design

Prepare a Contractor Style Schedule Review at the 60% plan milestone submittal. It is assumed that the US 218 N interchange will be included in this analysis.

Develop Critical Path Method (CPM) Contract Time Schedule, in Primavera P6, based on the 60% Design and quantities/production rates from SRF developed independent cost estimate.

Contractor will:

1. Prepare a Contractor Style Schedule Review at the 60% plan milestone submittal
2. Provide the following deliverables at the 60% level of completion: Proposed staging/phasing restrictions, access requirements, proposed completion dates.

State will:

1. Review and provide comment on Contractor Style Schedule Review

25. 4th Street Extension for the City of Austin

Include the 4th Street Extension from STA 202+00 to STA 199+50 in the Plan on behalf of the City of Austin.
Preliminary drainage design for the 4th St extension.
Prepare preliminary design and cost estimate for the 4th Street extension from Hardees to and including the 13th Avenue intersection.
Final design for the 4th Street Extension from STA 202+00 to STA 199+50.

26. Approach panel design for Bridges 9183 (TH 105), 9201 (21st Street), and 50804 (14th Street).

27. PROJECT SCHEDULE

SP 5080-170 is scheduled for letting on ~~October 27~~ December 1, 2023. The Contractor will submit required deliverables to meet the following milestones assuming a Jan 1, 2021 Notice to Proceed:

Roadway Concepts and Design Forms… .....April 30 2021

Preliminary Geometric Layout .....June 25, 2021

Bridge Concepts and Hydraulic Analysis. ..... June 4, 2021

Final Geometric Layout for D6 Review ..... August, 2021

Final Preliminary Bridge Plans…..... October, 2021

Draft Environmental Document..... June, 2022

30% Roadway Plans… .....August, 2022

Final Environmental Document..... August, 2022

60% Roadway Plans ..... January, 2023

95% (Final District Review Submittal) Roadway Plans..... March, 2023

Plan Turn In (final plans, specifications, and estimate)..... May 1, 2023

MnDOT Central Office Plan Turn In Deadline .....May 30, 2023

SP 5080-181 (Replace Pedestrian Bridge #9218) is scheduled for letting on October 24th, 2025. The Contractor will submit required deliverables to meet the following milestones:

Submit Final Geometric Layout for District Review……June 10, 2024

Prepare CATEX Amendment for Review……October 29, 2024

60% Approach Trail Plans……February 7th, 2025

95% (Final District Review Submittal) Approach Trail PS&E…….July 2nd, 2025

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Exhibit B3
Budget Details

MnDOT Contract No. 1036777

TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
1.0	**Project Management (Source Type 1010)** Assumes NTP in Jan, 2021. Letting is assumed to be on Jan 27, 2023. Assumes all management meetings are virtual. Letting is assumed to be on October 27, 2023 Jan 27, 2023. Therefore, use 24 month project duration.									
1.1	Prepare monthly invoices and progress reports	11	0	0	0	0	0	0	11	$2,372.29
1.2	Coordinate with State's Project Manager (weekly conference calls) until the Plan Turn-In Date. Provide the State's Project Manager with status updates on P6 schedule activities for which the Contractor is responsible.	224	0	0	0	0	0	0	224	$48,308.40
1.3	Provide conference call notes to State's Project Manager in a timely manner.	22	0	0	0	0	0	0	22	$4,744.58
1.4	Prepare and maintain a Work Plan and schedule of work. Provide monthly updates of percent complete, resources expended, and the next month's projected work schedule to be incorporated into the project schedule.	28	0	0	0	0	0	0	28	$6,038.55
1.5	Schedule and attend Project Kick Off meeting and monthly Project Management Team (PMT) meetings. Prepare agenda and minutes for each meeting. (Assumes meeting every month until letting, *total of 24*)	136	0	0	0	0	0	0	136	$29,330.10
1.6	Prepare agendas, schedule updates, and minutes for all progress meetings.	17	0	11	0	0	0	0	28	$5,103.00
1.7	*Subcontractor Management and Oversight*	22	0	0	0	0	0	0	22	$4,744.58
1.8	*Risk Analysis and Tracking*	18	0	0	0	0	0	0	18	$3,881.93
1.9	*Project Management and Oversight*	1300	0	30	0	0	0	22	1352	$285,616.13
	SUBTOTAL - TASK 1	**1778**	**0**	**41**	**0**	**0**	**0**	**22**	**1841**	**$390,139.54**

Exhibit B3
Budget Details

MnDOT Contract No. 1036777

TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
2.0	**Public and Agency Involvement (Source Type 0054)** Assumes all meetings are virtual thru June 2020. Provide light refreshments at selected public meetings. Ensure that any Contractor material provided for public online display meet ADA accessible requirements. Provide, as needed, written interpretation of materials and/or translation services for foreign language speakers in the community. (New Publica) Arrange and/or provide facilities for stakeholder meetings. Public Involvement Plan (PIP) (New Publica)									
2.1	Prepare PIP	4	0	28	0	0	0	14	46	$5,370.30
2.2	Stakeholder Identification and Issue Tracking	4	0	20	0	0	0	0	24	$3,474.90
2.3.1	Prepare for and attend up to seven (7) stakeholder coordination meetings (call them Public Advisory Committee meetings) with, but not limited to, the City of Austin and Mower County. Prepare a meeting summary for each meeting. (7 PAC mtgs @ 4 hrs prep + no travel thru June 2020 + 1 hr duration + 1 hr minutes = 6 hrs per mtg) (After July 1, assume 4 in person meetings)	66	0	44	0	0	0	18	128	$21,074.18
2.3.1a	Prepare professional level video for use in public communication while restrictions are in place for public meetings	7	0	32	0	40	65	0	144	$17,596.24
2.3.2	Prepare for and conduct up to four (4) public meetings ncluding coordinating venues to be used and providing displays for use during meetings. Summarize and document public meeting comments in a format that meets ADA accessible standards for posting online. (New Publica assisting) (4 PIM mtgs @ 4 hrs prep + no travel + 1 hr duration + 1 hr minutes = 6 hrs per mtg.) (Assume 2 in person meetings after July 1, 2021)	30	42	56	0	0	16	0	144	$22,362.08
2.3.3	Develop mailing list for public meetings and mail notices to selected addresses in consultation with State.	0	0	12	0	0	0	8	20	$2,053.35
2.4	Support for ten (10) multicultural listening sessions (New Publica leading)	4	0	40	0	0	0	0	44	$6,087.15
2.5	Visual Quality Management-Revise VQM to include revised facia panel design and update with SPUI graphics for aesthetics.	12	38	40	0	0	0	0	90	$13,814.55
2.6	US 218 N Interchange - Update the PIP to include the work at the US 218 N interchange, the I-90 Cross-over Plans, and the extension of 4th Street to 13th Ave.	0	0	0	0	0	0	0	0	$0.00
2.7	Prepare a 2022 INFRA Grant Application	12	152	40	0	0	24	0	228	$34,736.85
2.8	Prepare a 2022 BRIDGE Investment Grant Application	8	34	148	0	0	16	0	206	$28,370.25
2.9	*Prepare INFRA grant agreement with FHWA*									
2.9.1	*Agency Coordination*	10	0	47	0	0	0	0	57	$8,295.41
2.9.2	*Agreement Preparation*	4	6	70	0	0	0	0	80	$10,953.23
2.9.3	Agreement Review Process	4	0	34	0	0	0	0	38	$5,303.48
2.10	*Public Engagement during Construction*	20	0	50	0	0	0	30	100	$12,666.38
	SUBTOTAL - TASK 2	**185**	**272**	**661**	**0**	**40**	**121**	**70**	**1349**	**$192,158.33**

Exhibit B3
Budget Details

MnDOT Contract No. 1036777

TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE

Exhibit B3
Budget Details

MnDOT Contract No. 1036777

TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
3.0	**Data Collection (Source Type 6265)** Assumes single mobilization for Level-2 field investigation Assumes any private land would be responsibility of MnDOT to coordinate access permission Assumes one onsite TEP meeting Deliverables include PDF report and CAD/GIS electronic line work files Assumes MnDOT completes ENM and provides responses Assumes MnDOT to coordinate draft and final review with OES and FHWA Assumes digital files received by MnDOT comply with current MnDOT CAD Standards Any new counts and forecasts would only come if recommended by SRF and approved by MnDOT after a review of the existing data.									
3.1	Design and Land Surveys (Anderson)	0	12	6	0	0	0	0	18	$2,679.08
	Hydraulic Surveys (Anderson)	0	0	0	0	0	0	0	0	$0.00
	Roadway Surveys (Anderson)	0	0	0	0	0	0	0	0	$0.00
	Right of Way Surveys (Anderson)	0	0	0	0	0	0	0	0	$0.00
	Update Base Mapping	0	6	0	0	0	12	0	18	$2,405.70
	GSOC (covered under Section 9)	0	0	0	0	0	0	0	0	$0.00
3.2	Traffic Forecasts	1	0	20	0	0	0	0	21	$2,827.91
3.2a	Obtain turning movement counts at 4 intersection on CSAH 45 and process data and supplement existing forecasts.	2	0	20	10	15	0	0	47	$5,731.76
3.2b	Perform sensitivity analysis of the assumed growth rate within the traffic operations for the preferred concept at 4th Street	0	0	0	60	0	0	0	60	$7,107.75
3.3	Wetland Delineations (Anderson)	0	0	0	0	0	0	0	0	$0.00
	Level 1 Wetland Delineation	0	0	0	0	0	0	0	0	$0.00
	Level 2 Wetland Delineation	0	0	0	0	0	0	0	0	$0.00
	Wetland Permitting (covered in Section 8)	0	0	0	0	0	0	0	0	$0.00
	TEP Meeting (Anderson)	0	0	0	0	0	0	0	0	$0.00
3.4	Mapping data audit	0	4	0	4	0	0	0	8	$1,105.65
3.5	Additional field survey to verify mapping (field work to be completed by Anderson Engineering.)	0	4	0	6	0	0	0	10	$1,342.58
	SUBTOTAL - TASK 3	**3**	**26**	**46**	**80**	**15**	**12**	**0**	**182**	**$23,200.43**

Exhibit B3
Budget Details

TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
4.0	**Municipal Consent (Source Type 1140)** Assumes two council meetings, one to present layout and one to receive positive resolution, assume virtual participation and no travel. Assumes meeting will be held after July 1, 2021 and travel will be required.									
4.1	Prepare maps, layouts, resolutions and all other documents required for the Municipal Consent Process as outlined in the HPDP manual.	0	0	2	4	0	0	0	6	$735.08
4.2	Prepare Municipal Consent package (Include cost estimate for the 4th St extension and the US 218 N interchange)	4	0	2	4	0	0	0	10	$1,597.73
4.3	Attend city council meetings (2) to present Staff Approved Layout and seek resolution of approval. (Assumes both interchanges can be presented at the same time)	16	0	0	0	0	0	0	16	$3,450.60
	SUBTOTAL - TASK 4	**20**	**0**	**4**	**8**	**0**	**0**	**0**	**32**	**$5,783.40**
5.0	**Quality Management (Source type 1010)**									
5.1	Prepare and implement a project specific Design Quality Management Plan (DQMP), following the State Quality Management Process. Draft DQMP will be submitted to State for review and approval within 20 working days from Notice to Proceed.	1	0	0	0	0	0	0	1	$215.66
5.2	Perform Discipline Coordination Reviews at 60%, 95%, and 100% submittals.	30	71	36	0	0	0	0	137	$22,386.38
5.3	Perform quality control checking at 30%, 60%, 95%, and 100% submittals.	0	52	56	188	0	0	0	296	$37,798.65
5.4	Assign a Quality Assurance Manager responsible for implementing the project's Quality Management Plan and monitoring its execution. (Isthmus)	0	0	0	0	0	0	0	0	$0.00
	SUBTOTAL - TASK 5	**31**	**123**	**92**	**188**	**0**	**0**	**0**	**434**	**$60,400.69**

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MnDOT Contract No. 1036777

TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
6.0	**Environmental Dcoumentation (Source type 1070)** Assumes no CLOMR will be needed Assumes ESA or Regulated Waste Assessments, if needed, will be prepared by MnDOT									
6.1	Class II (CATEX) Document (Anderson) Include the US 218 N interchange, the 4th St. extension, the pedestrian bridge, and the Cross-over work into the CATEX.	0	8	32	0	0	0	0	40	$5,443.20
6.2	Phase I & Phase II Environmental Site Assessments (ESAs), Regulated Waste Assessments	0	0	0	0	0	0	0	0	$0.00
6.3	Conditional Letter of Map Revision (CLOMR) - time included for coordination and evaluation.	5	0	0	15	0	0	0	20	$2,855.25
		0	0	0	0	0	0	0	0	$0.00
	SUBTOTAL - TASK 6	**5**	**8**	**32**	**15**	**0**	**0**	**0**	**60**	**$8,298.45**
7.0	**Noise Analysis (Source Type 1071)** assume only receptors near major work, ie bridges and interchanges, not over the entire corridor Assume 10 walls will need to be modeled and carried through the solicitation process									
7.1	Develop/Approve Receptor Sites	0	10	0	0	100	0	0	110	$11,603.25
7.2	Noise Monitoring	0	0	0	0	100	0	0	100	$10,023.75
7.3	Noise Impact Modeling-all alternatives	0	10	0	20	220	0	0	250	$26,001.00
7.4	Noise Mitigation Modeling for Preferred Alternative	0	10	0	0	80	0	0	90	$9,598.50
7.5	Draft Noise Report	0	20	0	0	100	0	0	120	$13,182.75
7.6	Incorporate Comments & Prepare Final Noise Report	0	5	0	0	50	0	0	55	$5,801.63
7.7	Solicit Benefited Receptors & Document Results	0	30	0	100	20	0	0	150	$18,589.50
7.8	Eliminate the Type I noise study and solicitation process from the contract	0	-156	-400	0	0	0	0	-556	-$76,885.20
	SUBTOTAL - TASK 7	**0**	**-71**	**-400**	**120**	**670**	**0**	**0**	**319**	**$17,915.18**

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TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
8.0	**Permits (Source type 1195)** (Anderson)									
8.1	Federal Permits (USACE 404) (Anderson)	0	0	0	0	0	0	0	0	$0.00
8.2	FAA Form 7460-1 (SRF)	1	0	0	3	0	0	0	4	$571.05
8.3	State Permits (Anderson + SRF)	1	0	0	16	0	0	0	17	$2,111.06
8.4	Watershed District Permit and Review (SRF)	3	0	0	24	36	0	0	63	$7,098.64
8.5	Permit work for US 218 N (most done by Anderson)	2	0	0	4	4	0	0	10	$1,306.13
8.6	Identify a Floodplain Mitigation site and prepare mitigation plans.	5	0	4	23	0	0	0	32	$4,325.40
	SUBTOTAL - TASK 8	**12**	**0**	**4**	**70**	**40**	**0**	**0**	**126**	**$15,412.28**
9.0	**Subsurface Utility Engineering and Coordination (Source type 1195)** We acknowledge that MnDOT has requested 100 holes to be excavated, however, based on our past experience on projects of this size and complexity and our knowledge of the utilities in the corridor, we estimate that ~~25~~ 30 holes would be appropriate. Includes SUE work (T2) and utility coordination (by Isthmus) at the US 218 N interchange Does not include design of City owner utility relocations.									
9.1	SUE work (T2)	0	0	0	0	0	0	0	0	$0.00
9.2	Utility Coordination (Isthmus)	0	0	0	0	0	0	0	0	$0.00
9.3	Includes UIS Sheets (by Isthmus). Also includes meetings, requesting relocation plans, coordination between designers. If there are re-imbursables, then coordinate with CO Agreements.	2	4	0	0	0	0	0	6	$1,063.13
	SUBTOTAL - TASK 9	**2**	**4**	**0**	**0**	**0**	**0**	**0**	**6**	**$1,063.13**
10.0	**Preliminary Drainage Design (Source type 1140)** Assumes existing drainage area map is available from the City of Austin We are assuming that HYDINFRA and State's Hydraulic Recs are available Assumes preliminary drainage will be done solely for the preferred alternative. Based on the staff approved layout for the US 218N interchange, it is assumed that no stormwater ponding will be required at this location. Incorporate the US 218 N interchange into the overall drainage design									
10.1	Review State's scoping pipe recommendations for repairs and replacement of existing pipes	2	0	0	22	0	0	0	24	$3,037.50
10.2	Complete hydraulic analysis for proposed storm sewer, culverts, and ditches	4	0	0	39	0	0	0	43	$5,482.69

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TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
10.3	Prepare and submit existing and proposed drainage overview maps with contours in Microstation.dgn V8i format.	2	0	0	38	0	0	0	40	$4,932.90
10.4	Incorporate proposed drainage into construction limits map completed as part of Task 11.7.	2	0	0	8	0	0	0	10	$1,379.03
10.5	Prepare Drainage Design Report	4	0	0	32	0	0	0	36	$4,653.45
10.6	Preliminary drainage design for the 4th St extension	2	0	0	50	0	0	0	52	$6,354.45
10.7	Preliminary drainage design for the Cross over plan	2	0	0	50	0	0	0	52	$6,354.45
	SUBTOTAL - TASK 10	**18**	**0**	**0**	**239**	**0**	**0**	**0**	**257**	**$32,194.46**

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TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
11.0	**Geotechnical Engineering (Source Type 1182)**									
	Assumes MnDOT will perform soil borings and provided MDR and FADR recommendations.									
11.1	Provide supplementary soil borings *(up to 25)* for areas that are not covered by State furnished soil borings, or where subsurface formations are highly variable and require better definition. (Braun)	0	0	0	0	0	0	0	0	$0.00
11.2	Provide supplemental geotechnical design recommendations as necessary to supplement or complete temporary or permanent design features. (Braun)	0	0	0	0	0	0	0	0	$0.00
11.3	Locate and stake supplementary borings locations in the field. (Anderson does the staking)	0	0	0	0	0	0	0	0	$0.00
11.4	Clear utilities using the Gopher State One Call system. (Braun)	0	0	0	0	0	0	0	0	$0.00
11.5	Provide traffic control where necessary. (Braun)	0	0	0	0	0	0	0	0	$0.00
11.6	Submit supplementary boring location work map for State review and concurrence (Braun)	0	0	0	0	0	0	0	0	$0.00
11.7	If required, perform auger borings on proposed roadway alignment. All cores or borings through existing pavement must be backfilled and patched with the same material. (Braun)	0	0	0	0	0	0	0	0	$0.00
11.8	Produce field logs for each boring. (Braun)	0	0	0	0	0	0	0	0	$0.00
11.9	Produce an electronic boring log file for each boring. (Braun)	0	0	0	0	0	0	0	0	$0.00
	SUBTOTAL - TASK 11	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**$0.00**
12.0	**Preliminary Roadways Design (Source type 1140)**									
	Assumes one preliminary layout submittal and one final layout submittal prior to signatures-Assumes the tight diamond configuration Assumes following the requirements of the District 6 Construction Limits Completion Form Process.docx, dated 7-30-18 for documenting anticipated construction limits. Assumes that the scoping process for the above document has been completed by MnDOT and that SRF will be responsible for the Preliminary Design and Final Design portions of the document. Assumes MnDOT will provide a staff approved layout for the US 218N interchange and all associated base files and design documentation, including an approved Design Memo. Based on the staff approved layout for the US 218N interchange, it is assumed that no stormwater ponding will be required at this location.									
12.1	Concept Evaluation and Development	10	8	8	90	0	0	0	116	$15,126.75
12.1a	Construction Staging Evaluation	0	14	20	40	40	40	0	154	$18,431.55
12.2	Design Criteria Evaluation	2	4	0	0	0	0	0	6	$1,063.13
12.3	Preliminary Geometric Layout	6	10	30	80	0	80	0	206	$25,988.85
12.4	Preliminary Cost Estimate	2	2	2	10	0	0	0	16	$2,193.08
12.5	Design Memorandum	0	2	4	8	0	0	0	14	$1,786.05
12.6	Final Geometric Layout	2	8	10	30	0	40	0	90	$11,414.93
12.7	Construction Limits Map	4	4	4	8	0	4	0	24	$3,450.60

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MnDOT Contract No. 1036777

TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
12.7a	Preliminary Construction Limits (PCL) process requirements	0	4	10	20	40	4	0	78	$8,802.68
12.7.b	Final Construction Limits (FCL) process requirements	0	8	20	40	80	8	0	156	$17,605.35
12.8a	Based on the public engagement process, input from the City, and coordination with MnDOT Central Office Geometrics Office, prepare a Final Geometric Layout for the Single Point Urban Interchange (SPUI) option for the 4th Street interchange.	10	100	0	200	0	50	0	360	$47,719.13
12.8b	Evaluate the need for a second north bound through lane for the SPUI option at the 4th Street interchange.	2	10	0	0	0	0	0	12	$2,010.83
12.8c	Utilize the WB-67 design vehicle for the 4th Street interchange design, except where right of way impacts are generated. In that case, utilize the WB-62 design vehicle at the 4th Street interchange.	0	5	0	5	0	0	0	10	$1,382.06
12.8d	Provide for up to two additional layout reviews by MnDOT Central Office Geometrics Unit	0	10	0	10	0	0	0	20	$2,764.13
12.8e	Evaluate the need to widen the I-90 shoulders across the proposed Cedar River Bridges to eliminate the need for bridge scuppers.	2	20	0	25	0	0	0	47	$6,551.89
12.8f	Evaluate the need to reconstruct the existing retaining wall along the existing south west ramp at the 4th Street interchange.	2	5	0	0	0	0	0	7	$1,221.08
12.9	Evaluate the feasibility of living and structural snow fence west of the TH 105 interchange.	2	5	0	0	0	0	0	7	$1,221.08
12.1	Evaluate the feasibility of reconstructing the existing pedestrian bridge which crosses the Cedar River.	5	0	0	0	0	0	0	5	$1,078.31
12.11a	Evaluate improving the skew at the TH 105 interchange ramp terminal intersections.	15	2	0	0	0	0	0	17	$3,550.84
12.11b	Evaluate options to address slope instability for the south ramps at the US 1218 S interchange.	5	2	17	0	0	0	0	24	$3,614.63
12.11c	Evaluate walkway design options at the US 218 S interchange to meet ADA requirements.	10	5	28	0	0	0	0	43	$6,603.53
12.12	Prepare preliminary design and cost estimate for the 4th Street extension from Hardees to and including the 13th Avenue intersection.	25	10	28	170	0	0	0	233	$30,766.84
12.13	Prepare preliminary design for the median crossovers needed the MOT plan.	20	10	0	0	0	80	0	110	$15,612.75
12.14	Revise miscellaneous design elements of the TH 218 North Interchange. Revisions included revising limits on north and south, profile ties, and shoulder transitions, and muck excavation.	0	0	6	110	0	0	0	116	$13,814.55
	SUBTOTAL - TASK 12	**124**	**248**	**187**	**846**	**160**	**306**	**0**	**1871**	**$243,774.56**

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TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
13.0	**Interstate Access Request (IAR) (Source type 1140)** Assumes tight diamond configuration at 4th Street Asumes a HCM analysis only and that this analysis will show no impact to mainline operations. Assumes an email submittal of HCM analysis without the need to prepare a traffic memo. Assumes all clearances from FHWA have been received for the US 218N interchange.									
13.1	Prepare Interstate Access Request	8	0	-4	0	32	0	0	36	$4,410.45
13.2	Update traffic analysis	8	0	16	0	32	0	0	56	$7,022.70
13.3	Prepare comprehensive traffic memo incorporating all project locations and previous traffic reports and studies. Normalize design year projections.	0	0	0	0	0	0	0	0	$0.00
13.4	Prepare HCS analysis for the US 218 N interchange for FHWA concurrence.	0	0	20	0	0	0	0	20	$2,612.25
	SUBTOTAL - TASK 13	**16**	**0**	**32**	**0**	**64**	**0**	**0**	**112**	**$14,045.40**
14.0	**Detail Roadways Design (Source type 1250)** Assumes the tight diamond configuration Assumes MnDOT will provide design files and *,gpk files for current concept layout. Assumes 3D modeling will be sufficient to produce grading "surfaces" suitable for Contractor use as machine control. Assumes preparing for and attending three Constructability Reviews with Contractors pre bid (one person) Finish grade, grading grade, and bottom of subcut surfaces. ADA Ped ramps will not be modelled. Final plans for the US 218N interchange will be included into the overall plan set. Based on the staff approved layout for the US 218N interchange, it is assumed that no stormwater ponding will be required at this location. 4th Street Extension from STA 202+00 to STA 199+50 will be included in the Plan Assumes MnDOT will provide MDR for Xover plan Prepare a separate plan set for the cross over and shoulder work in 2023									
14.1	30% Plans	4	38	96	325	330	200	0	993	$115,282.24
14.1.1	Revise Typical Sections and Plan Format.	0	12	0	0	0	33	0	45	$5,904.90
14.1.2	Revise Cross Section format	0	9	0	24	0	0	0	33	$4,264.65
14.2	60% Plans	4	38	96	325	330	200	0	993	$115,282.24
14.2.1	Analyze and Evaluate options for Surcharge placementand its affect on adjacent walls and the related traffic control strategies for I-90.	14	41	0	35	0	0	0	90	$13,641.41

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TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
14.2.2	Analyze and Evaluate options for Pier Removal and the related traffic control strategies for I-90.	6	32	0	0	4	0	0	42	$6,749.33
14.2.3	Analyze and evaluate a Single Point Interchange Perpendicular Crossing. Prepare qualitative evaluation and quantitative modeling to be included in a technical analysis for the feasibility of adding a pedestrian crossing within the 4th Street interchange.	8	10	0	0	33	0	0	51	$6,612.64
14.2.4	Analyze and evaluate design options to provide a traffic barrier for the NE ramp at 4th Street to separate traffic from the adjacent trail.	6	30	0	50	0	15	0	101	$13,778.10
14.2.5	Incorporate additional funding sources into tabulations and SEQ. Meet with MnDOT Central Office to confirm funding sources and eligibility.	2	16	0	0	23	0	0	41	$5,263.99
14.2.6	Provide one additional submittal to the MnDOT ADA office, make necessary revisions and conduct one additional comment resolution meeting.	2	19	0	0	100	0	0	121	$13,456.13
14.3	95% Construction Plans (Complete submittal)	4	38	96	325	330	200	0	993	$115,282.24
14.3a	Draft Machine Control Surfaces	0	0	40	94	310	0	0	444	$47,433.60
14.3b	Green Sheets plan preparation	1	3	0	0	2	4	0	10	$1,375.99
14.4	100% Plans	4	38	96	325	330	160	0	953	$110,422.24
14.4a	Final Machine Control Surfaces	0	0	40	94	310	0	0	444	$47,433.60
14.4b	Constructability Review Meetings	2	0	20	0	0	0	0	22	$3,043.58
14.4c	Coordinate Concrete to Remain forms with MnDOT Bridge.	20	29	0	0	0	0	0	49	$8,893.80
14.5	Contractor Constructability Reviews	0	12	22	32	0	0	0	66	$8,559.68
14.6	Contractor Style Estimating	12	35	20	96	0	0	0	163	$22,100.85
14.7	4th Street Extension from STA 202+00 to STA 199+50	50	63	79	107	205	95	0	599	$75,819.04
14.8a	Prepare a separate plan set for the cross over and shoulder work in 2023. Identify and evaluate options for median drainage at Crossover #3 including limits of median barrier removal and replaced in the final proposed condition.	30	60	90	300	130	120	0	730	$90,851.63
14.8b	Prepare special provisions for Xover plan set	0	20	40	20	0	0	0	80	$10,752.75
14.9a	Additive for final design of the 4th St SPUI	0	100	0	300	0	200	0	600	$75,633.75
14.9b	Design line and grade for the retaining wall along the cemetery	0	10	0	25	0	10	0	45	$5,756.06
14.9c	Add perpendicular pedestrian crossing to the 4th St interchange.	10	70	0	22	30	0	0	132	$18,826.43
14.10	Prepare approach panel designs for Bridges at TH 105, US 218N, US 218S,	5	30	0	180	0	0	0	215	$27,140.06
14.11	Prepare construction plans for the replacement of the pedestrian bridge over the Cedar River (MnDOT Bridge will prepare the bridge design). This line item is for Project Management-design and plan prep are shown in 14.11.4.	10	120	0	0	0	0	0	130	$21,110.63
14.11.1	Hydraulic Modeling (includidng permitting and hydraulic modeling support)	139	0	0	124	0	0	0	263	$44,666.44
14.11.2	Revise CATEX (work done by Anderson)	5	15	0	0	0	0	0	20	$3,447.56
14.11.3	Permitting	0	20	0	30	0	0	0	50	$6,712.88
14.11.4	Plans and Provisions and Estimate (plus one shift in the location of the bridge)	12	200	258	400	918	168	0	1956	$227,691.00
14.11.5	Constructability and Traffic Control support	2	0	13	0	20	35	0	70	$8,386.54
14.12	Bidding and Construction Design Support	20	0	448	300	145	28	0	941	$116,302.84

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TASK NO.		WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
14.13	Noise Wall Design		46	0	394	0	439	89	0	968	$116,199.56
		SUBTOTAL - TASK 14	418	1108	1848	3533	3989	1557	0	12453	$1,514,078.33

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TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
15.0	**Preliminary Bridge Engineering and Design (Source type GEOM)** No FEMA permitting required. No-Rise condition achievable No site visits required MnDNR State Water Trail requirements can be met Meetings are via conference calls. Hydraulic model from 2017 LOMR can be use as base model. Will need to add the upstream pedestrian bridge for Corrected Effective condition Model will need to be extended upstream using LiDAR and previous model that extends further upstream MnDOT providesHydraulic Modeling We are assuming that MnDOT will be doing bridge final design Assumes the Bridge Office is doing preliminary and final design for the US 218 N interchange bridge.									
15.1	Aesthetics	0	0	0	0	0	0	0	0	$0.00
15.2	Bridge Surveys	0	0	0	0	0	0	0	0	$0.00
15.3	Bridge Concept Development	50	40	0	300	0	140	0	530	$69,649.88
15.4	Bridge Hydraulics									
15.41	Task management and conference calls, and QA/QC	6	0	0	6	0	0	0	12	$2,004.75
15.42	Review existing modeling and create corrected effective.	4	0	0	8	16	0	0	28	$3,414.15
15.43	Alternative analysis.	4	0	0	6	12	0	0	22	$2,776.28
15.44	Coordinate with DNR, State Aid Hydraulics, WD regarding permitting and obtain written concurrence from both indicating they have reviewed and concur with modeling results. Assume telephone conference call will be adequate to complete these discussions.	6	0	0	6	6	0	0	18	$2,606.18
15.45	Finalize preferred option model. Reconcile data in different models to develop approved model.	21	0	0	184	8	0	0	213	$27,127.91
15.46	Perform floodway analysis.	1	0	0	4	8	0	0	13	$1,491.41
15.47	Scour computations and Revetment Design. Coordinate with State Aid	1	0	0	4	6	0	0	11	$1,290.94
15.48	Revetment plans	0	0	0	1	4	0	0	5	$519.41
15.49	Develop Hydraulic Report and Risk Assessment for submittal and County record	1	0	0	2	4	0	0	7	$853.54
15.50	No-Rise documentation for Floodplain Administrator records	1	0	0	1	1	0	0	3	$434.36

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TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
15.51	Coordination and permitting of temporary of staging conditions. Coordination includes SRF, MnDNR area hydrauligist, MnDOT Structures, USACE and DNR/MnDOT Liason (Peter Leete). - Conditions will be reflected in a permit acquired with design. SRF will complete the permit coordination application. County will acquire the permit. Permit will be conveyed and completed by the contractor upon approved shop plans and hydraulic modeling modeling reivewed by permitting agencies. - Requirements of the construction methods/guidelines will be detailed in the roadway plans and special provisions, Division S, and bidge plans. - Hydraulic modeling of varying flood protection of construction methods	62	0	0	51	24	0	0	137	$21,818.36
15.52	EA / Environmental Coordination	0	16	0	0	25	0	0	41	$5,033.14
15.53	Based on guidance from MnDNR, add cross section to HEC-RAS model at the ped bridge and extend further upstream	0	0	0	40	0	0	0	40	$4,738.50
15.54	Coordinate with DNR and provide for additional review time	5	0	0	0	0	0	0	5	$1,078.31
15.5	Foundations	0	0	0	0	0	0	0	0	$0.00
15.6	Aesthetic Design Review	0	0	0	0	0	0	0	0	$0.00
15.6.1	Evaluate options to resurface existing retaining wall along the SW ramp of the 4th St interchange. Provide a recommendation to MnDOT. Incorporate recommended option into the final plans and specifications.	0	5	0	0	7	0	0	12	$1,491.41
15.6.2	Evaluate option to replace decorative fencing along cemetery property. Incorporate recommended option in the final plans and specifications.	0	24	0	0	24	0	0	48	$6,196.50
15.6.3	Evaluate facial panel design needs and revisions from VQM	8							8	$1,725.30
15.6.4	Structural design for monotube bridge for 4th St signal					77			77	$7,718.29
15.6.5	Approach Panel Design				107		36		143	$17,049.49
15.6.6	Prepare retaining wall type study for 4th St interchange area			53					53	$6,922.46
15.6.7	Prepare design for moment slab for barrier along WB exit ramp			80		128	71		279	$31,905.90
15.7	30% Preliminary Bridge Plan	20	50	0	160	0	110	0	340	$44,529.75
15.8	Final Preliminary Bridge Plan	33	60	0	380	0	180	0	653	$83,479.61
15.9	Preliminary and Final design of retaining walls	30	300	0	0	0	300	0	630	$90,304.88
15.10	Revise preliminary bridges plans for Bridge #s 50812 & 50813 to account for the shift in pier location recommended by MnDOT Bridge. This also includes updating hydraulic modeling to account for the pier shifts.	40	60	0	60	0	60	0	220	$32,501.25
	SUBTOTAL - TASK 15	**293**	**555**	**133**	**1320**	**350**	**897**	**0**	**3548**	**$468,661.95**

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Budget Details

TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
16.0	**Intersection Control Evaluation, Signal Design, Signing Design, Lighting Design** Assumes the tight diamond configuration Lighting plan sheets at 100' scale Site visit to verify existing systems Lighting at 3 interchanges: Oakland, 4th St & 21st St Oakland - termini lighting units impacted salvage/reinstall, will require new wiring to reconnect lighting on the ramps and to/from service cabinet 4th St - New interchange, salvage/reinstall on ramps, new lighting at ramp termini (coordinated with signal mast arm mounted luminaires), underpass lighting 21st St - New ramp alignment salvage/reinstall special airport lighting, new and/or salvaged lighting at termini No lighting analysis for lighting at the 3 interchanges, replace "in-kind" with similar offset and spacing Lighting analysis and associated preliminary cost estimate for city street lighting north/south on 4th St, for design outlined on page 7 of the Project VQM for Primary Structures. Reuse existing service cabinets and SOP As-built plans available No construction administration Assumes no ICE reports needed for US 218 N interchange.									

Exhibit B3
Budget Details

MnDOT Contract No. 1036777

TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
16.1	Intersection Control Evaluation (ICE) (Source type 1808) (Isthmus)	0	5	10	0	20	0	0	35	$4,100.63
16.2	Signal Design	7	5	0	76	80	0	0	168	$19,321.54
16.2a	Add perpendicular pedestrian crossing to the 4th St interchange.	20	0	60	0	80	0	0	160	$20,169.00
16.2b	Revise 4th St signal locations per direction from MnDOT ADA	4	40	25	0	93	25	0	187	$22,805.55
16.3	Signing Design	0	10	0	40	80	0	0	130	$14,337.00
16.3a	Prepare final plans for OH sign on WB I-90 east of 21st Street	10	0	60	0	50	70	0	190	$23,510.25
16.3b	Design temporary OH signs for traffic control	10	10	0	110	0	0	0	130	$16,767.00
16.4	Marking Design	0	10	0	40	80	0	0	130	$14,337.00
16.5a	Lighting analysis and preliminary estimate, per VQM, for 4th St city lighting. Design scope to be determined following analysis.	0	8	0	0	120	0	0	128	$13,292.10
16.5b	Site visit	0	0	0	0	8	0	0	8	$801.90
16.5c	Preliminary 60% plans, details and engineers cost estimate									
	Oakland	0	6	0	0	46	0	0	52	$5,558.63
	US 218 N									
	4th St	0	12	0	0	92	0	0	104	$11,117.25
	21st St	0	12	0	0	84	0	0	96	$10,315.35
16.5d	Review client comments of 60% plans. Make corrections and complete 90% plan & details development, develop preliminary specifications & updated estimate									
	Oakland	0	5	0	0	29	0	0	34	$3,696.64
	US 218 N									
	4th St	0	7	0	0	49	0	0	56	$6,017.29
	21st St	0	6	0	0	44	0	0	50	$5,358.15
16.5e	Review client comments of 90% plans. Make corrections and complete final plan/spec/estimate									
	Oakland	0	1	0	0	9	0	0	10	$1,060.09
	US 218 N									
	4th St	0	40	0	0	120	0	0	160	$18,346.50
	21st St	0	1	0	0	12	0	0	13	$1,360.80
16.5f	Separate City owned lighting circuit from MnDOT owned circuit and replace outdated cabinets	10	80	0	0	0	230	0	320	$42,737.63
	SUBTOTAL - TASK 16	**61**	**258**	**155**	**266**	**1096**	**325**	**0**	**2161**	**$255,010.28**
17.0	**Maintenance of Traffic (MOT) (Source type 1808)** (Isthmus + SRF)									
17.1	Review Scoping MOT Study	0	4	19	15	0	0	0	38	$4,890.38
17.2	Traffic Management Plan (TMP) - develop TMP for SPUI design at 4th St and include the US 218 N interchange	10	39	39	0	0	70	0	158	$21,915.56

Exhibit B3
Budget Details

MnDOT Contract No. 1036777

TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
17.3	Meetings (4 additional Constructability/MOT meetings with MnDOT staff). Provide for 6 additional Constructability meetings in addition to those from the Original Contract and Amendment 1.	100	100	50	0	0	0	0	250	$43,891.88
17.4	Conduct up to three six meetings with construction contractors to gain input regarding constructability and construction durations.	8	15	15	0	0	0	0	38	$6,053.74
17.5	Conduct an ADA assessment of pedestrian detour routes.	0	10	0	0	0	0	0	10	$1,579.50
17.6	Provide for pedestrian detours during bridge closures	20	0	10	10	10	0	0	50	$7,806.38
17.7	Adjust 4th Street Bridge demo traffic control to meeting City and County needs.	30	80	0	180	80	0	0	370	$48,448.13
	SUBTOTAL - TASK 17	**168**	**248**	**133**	**205**	**90**	**70**	**0**	**914**	**$134,585.55**

Exhibit B3
Budget Details

TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
18.0	**Right of Way Services (1210 and 1240)**									
	Tasks as described in the RFP									
	For the work specified below, it is assumed that 22 parcels will need to be processed at the 4th St. interchange, 6 parcels at the 21st interchange, and 8 parcels at the TH 105 interchange, 4 parcels at the US 218N interchange and 3 parcels at the 13th Avenue intersection and 2 parcels at the ped underpass approaches, for a total 43 45 parcels.									
	All other assumptions are contained in the RFP documentation									
	Provide a PE for two meetings, 4 hrs long each plus 1 hr prep time per meeting if needed for Eminent Domain hearing. Assumes the hearing will be a virtual meeting.									
18.1	Pre- Acquistion (Source Type 1210)	0	0	0	36	0	0	0	36	$4,264.65
	Field Title	0	0	0	0	29	0	0	29	$2,906.89
	Right of Way Work Map	0	7	0	0	174	92	0	273	$29,724.98
	Parcel Sketches	0	0	0	0	128	0	0	128	$12,830.40
	Final Plats	0	20	0	0	128	92	0	240	$27,167.40
	Prepare Right of Way Package (Authorization Map)	0	0	0	18	0	0	0	18	$2,132.33
	Electronic File Submission	0	0	0	18	0	0	0	18	$2,132.33
	Appraisals (Coordination only- appraisals by sub)	0	14	0	0	0	0	0	14	$2,211.30
18.2	Right of Way Acquistion (Source Type 1240)	0	0	0	0	0	0	0	0	$0.00
	Direct Purchase	19	65	0	37	252	0	0	373	$44,007.30
	Design Changes	0	19	0	0	0	0	0	19	$3,001.05
	Eminent Domain	0	13	0	0	0	0	0	13	$2,053.35
	SUBTOTAL - TASK 18	**19**	**138**	**0**	**109**	**711**	**184**	**0**	**1161**	**$132,431.96**

Exhibit B3
Budget Details

TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
19.0	**Value Engineering Study Participation (Source type 1140)**									
	Assumes VE Study will be a virtual meeting									
	Assumes one meeting with D6 staff prior to VE Study to coordinate presentation materials									
19.1	Assist State in assembling data or exhibits	2	0	0	0	0	6	0	8	$1,160.33
19.2	Present on the first day of the VE Study	8	8	0	0	0	0	0	16	$2,988.90
19.2a	Prepatory meeting with D6 staff prior to VE Study	2	2	0	0	0	0	0	4	$747.23
19.3	Attend on the last day of the VE Study	8	8	0	0	0	0	0	16	$2,988.90
	SUBTOTAL - TASK 19	**20**	**18**	**0**	**0**	**0**	**6**	**0**	**44**	**$7,885.35**
20.0	**Roadway and Bridge Design Coordination**									
20.1	On-going Roadway and Bridge design coordination	0	87	0	0	0	0	0	87	$13,741.65
	SUBTOTAL - TASK 20	**0**	**87**	**0**	**0**	**0**	**0**	**0**	**87**	**$13,741.65**
	The deliverable is in section 14 of the Scope Document									
21.0	**Independent Cost Estimate - Layout (30% Design)**									
	Bottoms-up style estimate based on Staff Approved Layout, approximate 30% design, project scope narrative, conversation with designers, independent quantities, crews and production rates developed by SRF Project Controls staff									
	Quantities developed using On-Screen Take-Off and estimate built in HCSS Heavybid using standard MnDOT bid items, Basis of Estimate report will document approach to project and assumptions used in estimate development									
	Deliverables: Basis of Estimate, Estimate Reports, Meeting to Review Estimate									
21.1	Project understanding/review documents	0	12	0	0	24	0	0	36	$4,301.10
21.2	Build estimate structure in HCSS	0	0	0	0	24	0	0	24	$2,405.70
21.3	Develop quantities in On-Screen Take-off (OST)	0	0	0	0	36	0	0	36	$3,608.55
21.4	Enter quantities into HCSS	0	0	0	0	12	0	0	12	$1,202.85
21.5	Develop crews and production rates in HCSS	0	0	0	0	24	0	0	24	$2,405.70
21.6	Write Basis of Estimate report	0	6	0	0	12	0	0	18	$2,150.55
21.7	Quality Review of estimate	0	12	0	0	6	0	0	18	$2,496.83
21.8	Resolve quality review comments	0	0	0	0	6	0	0	6	$601.43
21.9	Final estimate package and deliver	0	0	0	0	6	0	0	6	$601.43
21.10	Meeting/call with MnDOT to review/discuss estimate deliverable	0	6	0	0	6	0	0	12	$1,549.13
	SUBTOTAL - TASK 21	**0**	**36**	**0**	**0**	**156**	**0**	**0**	**192**	**$21,323.25**

Exhibit B3
Budget Details

TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
22.0	**Contract Time Schedule - Layout (30% Design)**									
	Develop Critical Path Method (CPM) Contract Time Schedule, in Primavera P6, based on Staff Approved Layout and quantities/production rates from SRF developed independent cost estimate Deliverables: Proposed staging/phasing restrictions, access requirements, proposed completion dates									
22.1	Develop Work Breakdown Structure (WBS)	0	3	0	0	12	0	0	15	$1,676.70
22.2	Develop construction activities, durations	0	3	0	0	24	0	0	27	$2,879.55
22.3	Develop activity relationships (logic ties)in P6	0	6	0	0	24	0	0	30	$3,353.40
22.4	Perform constructability review including equipment sizing	0	12	0	0	24	0	0	36	$4,301.10
22.5	Write schedule narrative	0	3	0	0	6	0	0	9	$1,075.28
22.6	Quality review of schedule	0	6	0	0	3	0	0	9	$1,248.41
22.7	Resolve quality review comments	0	0	0	0	6	0	0	6	$601.43
22.8	Package and deliver schedule deliverable	0	3	0	0	3	0	0	6	$774.56
	SUBTOTAL - TASK 22	**0**	**36**	**0**	**0**	**102**	**0**	**0**	**138**	**$15,910.43**
23.0	**Independent Cost Estimate - 60% Design**									
	Bottoms-up style estimate based on 60% design plans and specifications, conversation with designers, independent quantities, crews and production rates developed by SRF Project Controls Deliverables: 60% Design Submittal									
23.1	Project understanding/review documents	0	12	0	0	0	0	0	12	$1,895.40
23.2	Build estimate structure in HCSS	0	0	0	0	24	0	0	24	$2,405.70
23.3	Develop quantities in On-Screen Take-off (OST)	0	0	0	0	48	0	0	48	$4,811.40
23.4	Enter quantities into HCSS	0	0	0	0	12	0	0	12	$1,202.85
23.5	Develop crews and production rates in HCSS	0	0	0	0	24	0	0	24	$2,405.70
23.6	Write Basis of Estimate report	0	6	0	0	12	0	0	18	$2,150.55
23.7	Quality Review of estimate	0	12	0	0	6	0	0	18	$2,496.83
23.8	Resolve quality review comments	0	0	0	0	6	0	0	6	$601.43
23.9	Final estimate package and deliver	0	0	0	0	6	0	0	6	$601.43
23.10	Meeting/call with MnDOT to review/discuss estimate deliverable	0	6	0	0	6	0	0	12	$1,549.13
	SUBTOTAL - TASK 23	**0**	**36**	**0**	**0**	**144**	**0**	**0**	**180**	**$20,120.40**

Exhibit B3
Budget Details

TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
24.0	**Contract Time Schedule - 60% Design** Develop Critical Path Method (CPM) Contract Time Schedule, in Primavera P6, based on 60% design plans and specifications and quantities/production rates from SRF developed independent cost estimate Deliverables: Maintenance of Access requirements, planned interim and final completion dates									
24.1	Develop Work Breakdown Structure (WBS)	0	3	0	0	12	0	0	15	$1,676.70
24.2	Develop construction activities, durations	0	0	0	0	30	0	0	30	$3,007.13
24.3	Develop activity relationships (logic ties)in P6	0	3	0	0	24	0	0	27	$2,879.55
24.4	Perform constructability review including equipment sizing	0	12	0	0	24	0	0	36	$4,301.10
24.5	Write schedule narrative	0	3	0	0	6	0	0	9	$1,075.28
24.6	Quality review of schedule	0	12	0	0	3	0	0	15	$2,196.11
24.7	Resolve quality review comments	0	0	0	0	6	0	0	6	$601.43
24.8	Package and deliver schedule deliverable	0	3	0	0	3	0	0	6	$774.56
24.9	Analyze bridge cost estimates with respect to FADR and schedule requirements	11	40	0	130	0	0	0	181	$24,090.41
	SUBTOTAL - TASK 24	**11**	**76**	**0**	**130**	**108**	**0**	**0**	**325**	**$40,602.26**

Exhibit B3
Budget Details

MnDOT Contract No. 1036777

TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
	TOTAL ESTIMATED PERSON-HOURS	**3184**	**3206**	**2968**	**7129**	**7735**	**3478**	**92**	**27792**	
	AVERAGE HOURLY PAYROLL RATES	$71.00	$52.00	$43.00	$39.00	$33.00	$40.00	$20.00		
	OVERALL ESTIMATED DIRECT LABOR	$226,064	$166,712	$127,624	$278,031	$255,255	$139,120	$1,840		$1,194,646.00
	OVERALL ESTIMATED OVERHEAD COST	170.00%								$2,030,898.20
	OVERALL ESTIMATED LABOR AND OVERHEAD	$610,373	$450,122	$344,585	$750,684	$689,189	$375,624	$4,968		$3,225,544.20
	FIXED FEE	12.50%								$403,193.03
	TOTALS for CONTRACTOR	$686,669	$506,388	$387,658	$844,519	$775,337	$422,577	$5,589		**$3,628,737.23**
	SRF DIRECT EXPENSES									$3,359.00
	ESTIMATED DIRECT NON-SALARY EXPENSES									**$1,010,970.21**
	TOTAL ESTIMATED FEE									**$4,639,707.43**

TGB Goal = **9%**

VET Goal **5%**

Current TGB Rate = **13%**

Current VET Rate = **4%**

Exhibit B3
Budget Details

MnDOT Contract No. 1036777

TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
ESTIMATE OF DIRECT NON-SALARY EXPENSES:										
	MILEAGE: (Allowable IRS rate for business)	Personal Vehicles			4400	Miles @	$0.560	Per Mile		$2,464.00
		Meals (lunches)			20	Each	$11	Each		$220.00
	REPRODUCTION:									
		Reports (draft and final)			0	Each	$15	Each		$0.00
		11x17 Plan Copies			0	Each	$0.10	Each		$0.00
	PRINTING:	Color Copies (11 x 17)			0	Each	$0.20	Per Sheet		$0.00
		Color Copies (8.5 x 11)			0		$0.20	Per Sheet		$0.00
	COMMUNICATION:	Mailings/Deliveries/Postage (including fliers, newsletters and maps)			4	Each	$50			$200.00
	Meetings:	Refreshments (cookies and bottled water for public meetings)			15	Each	$25	Each		$375.00
		Facility rental			0	Each	$100	Each		$0.00
		Professional voice over for PIP video								$100.00
									SRF Sub-Total =	$3,359.00

Exhibit B3
Budget Details

MnDOT Contract No. 1036777

TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
	SUBCONTRACTORS:	TASK								
	New Publica	2.0	Public and Agency Involvement (Source Type 0054)							$40,529.50
	DKJ Appraisal	**18.0**	**Right of Way Services (1210 and 1240)**							**$15,437.50**
	Braun	**11.0**	**Geotechnical Engineering (Source Type 1182)**							**$53,102.28**
	Anderson (wetland delineations)	3.0	Data Collection (Source Type 6265)							$21,594.00
	Anderson (supp surveys)	3.0	Data Collection (Source Type 6265)							$73,235.00
	Anderson	6.0	Environmental Dcoumentation (Source type 1070)							$49,080.00
	Anderson	8.0	Permits (Source type 1195)							$39,520.00
	T2	**9.0**	**Subsurface Utility Engineering and Coordination (Source type 1195)**							**$169,570.93**
	Isthmus	5.0	Quality Management (Source type 1010)							$50,280.00
	Isthmus	9.0	Subsurface Utility Engineering and Coordination (Source type 1195)							$144,416.00
	Isthmus	10.0	Preliminary Drainage Design (Source type 1140)							$14,865.00
	Isthmus	12.0	Preliminary Roadways Design (Source type 1140)							$140,180.00
	Isthmus	14.0	Detail Roadways Design (Source type 1250)							$195,801.00
	Isthmus	16.0	Intersection Control Evaluation, Signal Design, Signing Design, Lighting Design							$0.00
	Isthmus	17.0	Maintenance of Traffic (MOT) (Source type 1808)							$0.00
	ESTIMATED DIRECT NON-SALARY EXPENSES									**$1,010,970.21**

Exhibit B3
Budget Details

MnDOT Contract No. 1036777

TASK NO.	WORK TASK DESCRIPTION	PRINCIPAL	SR. ASSOC.	ASSOC.	SR. PROF.	PROF.	TECH.	CLER.	TOTALS	EST. FEE
COST PER TASK										
1.0	Project Management (Source Type 1010)	$ 383,448	$ -	$ 5,355	$ -	$ -	$ -	$ 1,337		$ 390,140
2.0	Public and Agency Involvement (Source Type 0054)	$ 39,898	$ 42,962	$ 86,335	$ -	$ 4,010	$ 14,702	$ 4,253		$ 192,158
3.0	Data Collection (Source Type 6265)	$ 647	$ 4,107	$ 6,008	$ 9,477	$ 1,504	$ 1,458	$ -		$ 23,200
4.0	Municipal Consent (Source Type 1140)	$ 4,313	$ -	$ 522	$ 948	$ -	$ -	$ -		$ 5,783
5.0	Quality Management (Source type 1010)	$ 6,686	$ 19,428	$ 12,016	$ 22,271	$ -	$ -	$ -		$ 60,401
6.0	Environmental Dcoumentation (Source type 1070)	$ 1,078	$ 1,264	$ 4,180	$ 1,777	$ -	$ -	$ -		$ 8,298
7.0	Noise Analysis (Source Type 1071)	$ -	$ (11,214)	$ (52,245)	$ 14,216	$ 67,159	$ -	$ -		$ 17,915
8.0	Permits (Source type 1195)	$ 2,588	$ -	$ 522	$ 8,292	$ 4,010	$ -	$ -		$ 15,412
9.0	Subsurface Utility Engineering and Coordination (Source type 1195)	$ 431	$ 632	$ -	$ -	$ -	$ -	$ -		$ 1,063
10.0	Preliminary Drainage Design (Source type 1140)	$ 3,882	$ -	$ -	$ 28,313	$ -	$ -	$ -		$ 32,194
11.0	Geotechnical Engineering (Source Type 1182)	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -
12.0	Preliminary Roadways Design (Source type 1140)	$ 26,742	$ 39,172	$ 24,425	$ 100,219	$ 16,038	$ 37,179	$ -		$ 243,775
13.0	Interstate Access Request (IAR) (Source type 1140)	$ 3,451	$ -	$ 4,180	$ -	$ 6,415	$ -	$ -		$ 14,045
14.0	Detail Roadways Design (Source type 1250)	$ 90,147	$ 175,009	$ 241,372	$ 418,528	$ 399,847	$ 189,176	$ -		$ 1,514,078
15.0	Preliminary Bridge Engineering and Design (Source type GEOM)	$ 63,189	$ 87,662	$ 17,371	$ 156,371	$ 35,083	$ 108,986	$ -		$ 468,662
16.0	Intersection Control Evaluation, Signal Design, Signing Design, Lighting Design	$ 13,155	$ 40,751	$ 20,245	$ 31,511	$ 109,860	$ 39,488	$ -		$ 255,010
17.0	Maintenance of Traffic (MOT) (Source type 1808)	$ 36,231	$ 39,172	$ 17,371	$ 24,285	$ 9,021	$ 8,505	$ -		$ 134,586
18.0	Right of Way Services (1210 and 1240)	$ 4,098	$ 21,797	$ -	$ 12,912	$ 71,269	$ 22,356	$ -		$ 132,432
19.0	Value Engineering Study Participation (Source type 1140)	$ 4,313	$ 2,843	$ -	$ -	$ -	$ 729	$ -		$ 7,885
20.0	Roadway and Bridge Design Coordination	$ -	$ 13,742	$ -	$ -	$ -	$ -	$ -		$ 13,742
21.0	Independent Cost Estimate - Layout (30% Design)	$ -	$ 5,686	$ -	$ -	$ 15,637	$ -	$ -		$ 21,323
22.0	Contract Time Schedule - Layout (30% Design)	$ -	$ 5,686	$ -	$ -	$ 10,224	$ -	$ -		$ 15,910
23.0	Independent Cost Estimate - 60% Design	$ -	$ 5,686	$ -	$ -	$ 14,434	$ -	$ -		$ 20,120
24.0	Contract Time Schedule - 60% Design	$ 2,372	$ 12,004	$ -	$ 15,400	$ 10,826	$ -	$ -		$ 40,602
	ESTIMATED DIRECT NON-SALARY EXPENSES									$1,010,970.21
	TOTAL ESTIMATED FEE	$ 686,669	$ 506,388	$ 387,658	$ 844,519	$ 775,337	$ 422,577	$ 5,589		**$4,639,707.43**

MINNESOTA DEPARTMENT OF TRANSPORTATION

According to the Most Recently Approved Commissioner's Plan Reimbursement Rates for Travel Expenses*

Subject	Conditions/Mileage	Rate
Personal Car	(1)	Federal IRS reimbursement rate
Commercial Aircraft	(2)	Actual cost
Personal Aircraft	(1)	Federal IRS reimbursement rate
Rental Car	(2)	Actual cost
Taxi	(3)	Actual cost
Subject	**Meals**	**Rate**
Breakfast	(1) (5) (7)	$11.00
Lunch	(1) (5) (7)	$13.00
Dinner	(1) (5) (7)	$19.00
Subject	**Lodging**	**Rate**
Motel, Hotel, etc.	(2) (4) (6)	Actual cost
Laundry/Dry Cleaning (After seven continuous days in Travel Status)	(1) (3)	$16.00 each week
Telephone, Personal	(1)	As of July 1, 2022, no reimbursement of costs

Travel Status

1. More than 35 miles from Home Station and/or stay overnight at commercial lodging (motel, etc.).
2. Leave home in travel status before 6 a.m. for breakfast expense that day or away from home overnight.
3. In travel status after 7 p.m. for supper expense that day or is away from home overnight.
4. On travel status and/or more than 35 miles from Home Station for lunch expense that day.

Restrictions

1. A maximum rate shown or a lesser rate per actual reimbursement to an employee.
2. Include receipt or copy of receipt when invoicing. (Coach class for aircraft, Standard card size, and standard room.)
    a. Lodging costs should be reasonable and consistent with facilities available.
3. Include receipt or copy of receipt when more than $10.00.
4. Reasonable for area of stay.
5. The gratuity is included in the maximum cost.
6. To be in Travel Status and at a commercial lodging.
7. Meal reimbursements for high-cost localities as identified by the IRS, the maximum reimbursement will be Breakfast $12.00, Lunch $15.00, and Dinner $23.00.

*The above expense rates are based on the most recently approved Commissioner's Plan contract, and are subject to change with subsequent contract updates.

INVOICE NO._____

Estimated Completion: __% (from Column 6 Progress Report)

Final Invoice? ☐Yes ☐ No

Invoice Instructions:

Contractor must:

1. Complete the invoice and, if applicable, the progress report, in their entirety
2. Sign the invoice and progress report
3. Attach supporting documentation
4. Scan the entire invoice package*, **in the following order**:
   a. Completed, Signed Invoice Form
   b. Completed, Signed Progress Report Form (if applicable)
   c. Supporting Documentation
   Note: Whenever possible, convert landscape pages to portrait pages and optimize the document to decrease the size.
5. E-mail the invoice package, in .pdf, to ptinvoices.dot@state.mn.us

MnDOT Contract Number: 1036777
Contract Expiration Date: February 15, 2026
SP Number: 1036777 TH Number: I-90

Billing Period: From _____ to _____
Invoice Date: _____

	Total Contract Amount	Total Billing to Date	Amount Previously Billed	Billed This Invoice
1. Direct Labor Costs: (Attach Supporting Documentation)	$1,170,191.00			
2. Overhead Costs: Rate = 170% (Direct Labor*Overhead Rate)	$1,989,324.20			
3. Fixed Fee (Profit) Costs: Rate = 12.5% (Fixed Fee = $ * Percent Complete)	$394,939.03			
4. Direct Expense Costs: (Attach Supporting Documentation)	$3,359.00			
5. Subcontractor Costs: New Publica DKJ Appraisal Braun Intertec Anderson Engineering T2 Utility Engineers Isthmus Engineering	 $40,529.50 $15,437.50 $53,102.27 $183,429.00 $169,570.93 $545,542.00			
Net Earning Totals:	**$4,565,424.43**			
Total Amount due this invoice:				$
**If your billing period includes costs to and after June 30, provide a "Billed This Invoice" split of cost through June 30, and costs after.*				

Contractor: Complete this table when submitting an invoice for payment

Source Type (from Exhibit A)	Total Billing to Date	Amount Previously Billed	Billed This Invoice
Total			

I certify that the statements contained on this invoice, and its supporting documents, are true and accurate and that I have not knowingly made a false or fraudulent claim, or used a false or fraudulent record in connection with this Invoice. I understand that this invoice is subject to audit.

Contractor: **SRF Consulting Group, Inc.**
Signature: _____
Print Name: _____
Title: _____

*If you are unable to support electronic submission of Invoices, you must contact the Authorized Representative for possible alternatives.

Exhibit E3: Progress Report Form

For Invoice No.: _____

Progress Report Instructions:

1. Contractor must complete the progress report form, in its entirety.
2. Contractor must sign the progress report.
3. Contractor must include the completed, signed progress report as part of the invoice package, and submit it as instructed (see Contract and/or invoice form for further details).
   ***(Note**: Whenever possible, convert landscape pages to portrait pages and optimize the document to decrease the size.)*

MnDOT Contract No. 1036777
Contract Expiration Date: February 15, 2026
SP Number: 5080-170 TH Number: I-90

Billing Period: from _____ to _____
From: SRF Consulting Group Inc.

Task	% of Total Contract	ENGINEERING ESTIMATE				Hours Budget	Hours Accrued This Period	Total Hours Accrued To Date	*% of Budget Hours Used
		% Work Completed This Period	% Work Completed To Date	Weight % Completed This Period	Weight % Work Completed to Date				
1	2	3	4	5	6	7	8	9	10
Project Management	6.6					1,841			
Public & Agency Involve	4.9					1,349			
Data Collection	0.7					182			
Municipal Consent	0.1					32			
Quality Management	1.6					434			
Environmental Doc	0.2					60			
Noise Analysis	1.1					319			
Permits	0.5					126			
SUE Services	0.1					6			
Prelim Drainage Dgn	0.9					257			
Prelim Roadways Dgn	6.7					1,871			
Interstate Access	0.4					112			
Detail Roadways Dgn	44.8					1,2453			
Preliminary Bridge Eng	12.7					3,548			
ICE Reports & Traffic Eng	7.8					2,161			
MOT	3.3					914			
Right of Way Services	4.1					1,161			
Value Eng Study	0.3					87			
Road and Bridge Dgn	0.2					44			
Cost Estimate - 30%	0.7					192			
Contract Time - 30%	0.5					138			
Cost Estimate - 60%	0.6					180			
Contract Time - 60%	1.2					325			
TOTALS:	**100**					**27,792**			

Note: If Budgeted Hours Used for any task exceeds 100%, Contractor must attach an explanation to the invoice package.

I certify that the above statement is correct, and certify that I have not knowingly made a false statement or used a false record in the preparation of this form:

_____

Contractor's Project Manager Date

RESOLUTION NO.

Resolution Authorizing an Agreement with MnDOT for Design Services Contract on I-90 Bridge Projects

WHEREAS, the City has been actively collaborating with MnDOT on the design process for the I-90 bridge projects, ensuring alignment and progress; and

WHEREAS, MnDOT has experienced cost changes related to the project, which require amendments to the existing agreement; and

WHEREAS, the City agrees with the proposed changes outlined in the attached agreement and approves the amendments specified therein.

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Austin hereby approves the agreement with MnDOT and authorizes Amendment No. 3 to MnDOT Contract 1036777 for engineering design services.

Passed by a vote of yeas and nays this 20th day of January, 2026.

YEAS NAYS

ATTEST: APPROVED:

_____ _____

City Clerk Mayor