

**AMENDMENT NUMBER ONE
TO
PRIME DESIGN SERVICES AGREEMENT
FOR
F STREET REOPENING**

THIS AMENDMENT NUMBER ONE is made and entered into this ____ day of _____, 20____, by and between the City of Las Vegas, a municipal corporation of the State of Nevada (herein the "City"), and PBS&J (herein the "Consultant").

WHEREAS, the City and the Consultant have entered into an Agreement dated, March 26, 2010 (herein the "Agreement"), retaining the services of the Consultant for the design of F Street Reopening more fully described therein in connection with the improvements to be constructed at F Street and I-15 and,

WHEREAS, since entering into the Agreement, the City desires to modify the services of the Consultant to include final design services for F Street Reopening.

NOW, THEREFORE, in consideration of the above premises, the parties hereto agree that the following changes shall be made to the Agreement:

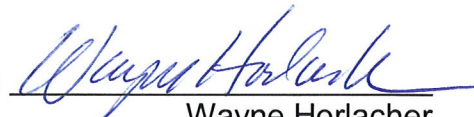
1. Delete the original Exhibit "A" Scope of Services and replace with the attached "Revised Exhibit A Scope of Services" for detail of additional design required.
2. Delete the original Exhibit "C" Performance Schedule and replace with the attached "Revised Exhibit C Performance Schedule".
3. Exhibit "D" Fee Breakdown is hereby amended to increase the total compensation of the entire Agreement referenced herein by \$1,599,657 from \$502,033 to \$2,101,690.
4. Delete the original Exhibit "E" Additional Compensation and replace with the attached "Revised Exhibit E Additional Compensation".
5. Delete the original Exhibit "G" Disclosure of Ownership/Principals and replace with the attached "Revised" Exhibit "G" Disclosure of Ownership/Principals.
6. All other provisions of the Agreement remain in force and effect.

IN WITNESS WHEREOF, the parties hereto have caused this Amendment Number One to be executed the day and year first above written.

CITY OF LAS VEGAS

By: _____
Kathleen C. Rainey, Manager
Purchasing and Contracts
"CITY"

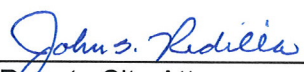
PBS&J

By: 
Wayne Horlacher

ATTEST:

Beverly K. Bridges, MMC Date
City Clerk

APPROVED AS TO FORM:

 2/9/11

Deputy City Attorney Date
John S. Ridilla
Deputy City Attorney

EXHIBIT "A"
REVISED PER AMENDMENT 1
SCOPE OF SERVICES

PROJECT LOCATION AND PURPOSE

The Project is located on F Street at I-15 and will encompass surface streets generally between Washington Avenue on the north, Bonanza Avenue on the south and D Street on the east. F Street will generally be the west limit. The project will focus on reestablishing the through access of F Street under I-15. This scope assumes that the preliminary design developed will allow for a reduced height clearance on F Street beneath I-15 and that a profile modification is not required on the I-15 mainline or ramps. This scope also assumes the vertical profile of F Street will be lowered, and utilities will be relocated.

The primary goal of this scope of work is to provide final design, bid and construction support services. The final design of this project will be based on the approved preliminary design which was completed and approved under the original Agreement.

This project will be jointly managed and reviewed by the City of Las Vegas (CLV) and the Nevada Department of Transportation (NDOT) in cooperation with the FHWA. NDOT will assume the lead role for project management, but all key decisions and reviews will require the approval of all agencies.

GENERAL DESCRIPTION OF SERVICES

Designs and drawings shall be prepared in English units using MicroStation V8i (version 08.11.05.17) and InRoads (version 08.11.05.47) software, and will adhere to the plan preparation section of the NDOT 2010 Design Guide. Converted AutoCAD files shall not be accepted.

The Consultant shall develop the final design plans and bid documents for F Street, from Bonanza Road north to Washington Avenue based on the recommended design concept as approved and developed for the preliminary (30%) plans as part of the original Agreement. These improvements will include a total of three new bridge structures on Interstate 15 allowing for F Street to cross under, completion of full roadway improvements for F Street allowing for a bike lane and two lanes in each direction, plus sidewalks on each side along the project alignment, consisting of, at a minimum, new pavements, structures, foundations, excavations, embankments, retaining walls, storm drainage systems including analysis and studies, curbs, gutters, sidewalks, lighting, utility modifications and coordination, aesthetic design elements and landscaping with irrigation, construction traffic control devices on Interstate 15, pavement markings, signing, traffic signal undergrounds, traffic signals, and modifications including warrant analysis, interconnect, FAST and electrical service points. Design services will include preparation of engineering design documents in a format to be administered by the NDOT and will include bidding support services. Design reviews will include an Intermediate Design Review Submittal (60%), PS&E Review Submittal (Pre-Final), and Final Submittal for bid for a total of three reviews plus the final plans (original and PDF) for bidding. The scope of services includes:

- Right-of-Way Settings
- Engineering Analysis
- Geotechnical Services
- Electrical Design
- Utility Coordination

- Surveying
- Quantities
- Cost Estimating
- Specification Pull Sheets
- Bidding Services

Consultant will assist NDOT and CLV in conducting public informational meetings and hearings, preparing displays and attendance by staff members who are knowledgeable of the project. Public outreach will be provided by the CLV.

ADDITIONAL 30% DESIGN SERVICES

3.9.1A Conceptual Design Development Design Workshops

As part of the Public Meetings and Information and Outreach as described in tasks 3.9.1 of the original Agreement, the Consultant shall prepare for and attend a series of Design Workshops to gain public/stakeholder comments and input in order to develop and gain concurrence for a preferred geometric alternative. These workshops will be conducted in order to solicit ideas from the community and other key stakeholders for the preparation of geometric design and aesthetic alternatives. The Consultant, with the assistance of the CLV and NDOT, will prepare meeting outlines to set a meeting format. The format and outlines will be reviewed and be planned over a series of multiple face to face meetings to be conducted at the CLV, and conference calls as required. The meeting will be conducted with presentations for engineering and aesthetics to the entire group. Following the presentation, smaller, individual working groups will be facilitated with exercises to solicit ideas which will ultimately be voted upon utilizing polling equipment to be supplied by the Consultant. The Consultant's staff will prepare the presentation, all materials and conduct the meeting. CLV and NDOT staff will assist with the individual working groups, however the facilitators and remaining staff will be provided by the Consultant. The meeting will include the preparation of the presentation of materials including display boards, facilitation materials, handouts, power point presentations and polling devices. The Consultant will also conduct a debrief of each workshop with CLV and NDOT staff to review the outcome of the meeting and determine the focus for moving forward. The Consultant shall also prepare a report documenting all the information received from the first workshop which will consolidate the input received and assist the CLV/NDOT, engineers and designers in moving forward.

4.2.1A Roadway Alternative Geometric Evaluations

The Consultant shall prepare and evaluate alternatives to be presented as part of the Design Workshops identified in Task 3.9.1A above. Geometry will be developed, reviewed and refined over a series of meetings with the CLV and NDOT for presentation to the public/stakeholders. These alternatives will include the evaluation of differing types of roadway configurations including; neighborhood, collector, interim vs. ultimate configurations, and pedestrian only. Each of these will be evaluated by the Consultant for varying vertical profiles (14'-6" through 16'-6"), conventional and arch bridge structure types, varying bridge widths, intersection geometry at the connection points of Bonanza and at the D Connector, and evaluation of additional alternatives outside the project limits, south of Bonanza. The Consultant shall prepare cost estimates, geometric and impact analysis, and plan sheets for each of the alternatives, with their variations for consideration by the CLV and NDOT.

Upon selection of a conceptually approved alternative, the Consultant will further refine the alternative to present as part of a subsequent workshop to gain final acceptance of the locally preferred alternative. Additional analysis will be provided to document advantages and

disadvantages while confirming construction, right-of-way, costs and schedule impacts. The Consultant will update the preferred alternative based on public/stakeholder input and prepare new displays and renderings, and present the updated version to the public/stakeholders.

4.5.1A TRAFFIC ANALYSIS

The Consultant shall provide operational mitigation as necessary for the intersection of F Street with the D connector due to the minimal distance between this intersection and Bonanza Road. The Consultant will provide analysis for one traffic control alternative as well as provide geometric alternatives at the Bonanza intersection. The Consultant will derive future volumes from a previously approved study and modify them to provide usable data. This information will be utilized and presented as a part of the traffic analysis prepared under the original Agreement. In addition, the Consultant will assist in the public meetings and estimate future AADT data to be provided for all design alternatives under consideration as part of the design workshops, identified in Task 3.9.1A above.

4.7.1.2A Stakeholder Meetings for Aesthetic Treatments

Following the selection of a preferred alternative as described in Task 4.7.1.2 within the original Agreement, as presented in the public meeting, the Consultant will analyze and review the feedback received from the public. The Consultant will then modify and update the selected alternative to address the additional input received, as appropriate. The Consultant will update the preferred alternative based on these comments and prepare new displays and renderings, and present the updated version to the public/stakeholders described in Task 3.9.1A above.

FINAL DESIGN SERVICES (30%-FINAL)

5. PROJECT MANAGEMENT

5.1 PROJECT MANAGEMENT

The Consultant shall perform general project management, including, but not limited to, day-to-day work to administer interrelated activities, coordinate work of all sub-consultants, manage personnel and resources; monitor schedules and budgets; and coordinate with the CLV and NDOT project management team. Project management shall meet the requirements stated herein, and those as outlined within the original Agreement.

Project Management Understanding/Strategy

The Consultant shall provide a committed, readily available management team that has the capacity to successfully oversee all project management and design efforts within the defined schedule. The Consultant shall provide the NDOT & the CLV monthly, detailed management reports clearly identifying project progress (budget and schedule). The Consultant is responsible for the coordination of activities between the NDOT, CLV and other agencies through regular meetings. Coordination will include, but not be limited to, meetings, facilities, developing agendas, and minutes and to provide information useful for formal monthly meetings, tracking issues and resolutions as they arise, ensuring action items are followed through, and providing detailed management reports as listed below. The project management reports will identify work completed, schedule and progress relative to the schedule, budget used and available for the various tasks, action items and work proposed for the coming month.

The Consultant's Representative is hereby designated as the Consultant's Project Manager listed in Exhibit "F" of the original Agreement, who shall be responsible for the services required

under this Amendment. All of the services specified by this Amendment shall be performed by the Consultant's Representative, or by the associates and employees identified in the Consultant's proposal provided that such associates and employees perform under the personal supervision of the Consultant's Representative. All employees identified in the Consultant's cost proposal shall be subject to approval by the City's Representative. Should the Consultant's Representative, or any associate or employee, be unable to complete his or her responsibility for any reason, the Consultant will replace the employee with a qualified person approved by the City. If the Consultant fails to make a required replacement within thirty (30) days, the City may terminate this Agreement for default.

The Consultant will attend all meetings and prepare all agendas and minutes and forward a draft copy to the NDOT and CLV Project Managers within one (1) week of the meeting. Consultant will identify and track (manage) all critical action items to expedite their completion.

PM Role and Responsibility

The Consultant, the NDOT and the CLV project managers shall be the primary points of contact and any direction which affects Scope, Schedule or Budget shall occur between the project managers.

The Consultant shall be responsible for monitoring and enforcing budget and schedule status for all aspects of the project and keeping the NDOT & CLV updated on the project status.

All Consultant meetings with the public, involved agencies or NDOT staff and CLV staff will include invitation to the NDOT's and CLV's project managers and originate from, or be copied to the Consultant's project manager.

Some coordination is expected to occur between various entities and the Consultant's leads for various disciplines. When this communication materially influences the Scope, Schedule, Budget, or allocation of resources, the Consultant shall be made aware and will communicate these issues to NDOT and CLV as soon as they are discovered. Routine communication will include regular phone calls and e-mails between the Consultant, CLV and NDOT. Coordination which affects the project Scope, Budget or Schedule will be followed-up in writing between the Consultant, the NDOT and CLV in all situations.

The Consultant will provide invoices in the standard format provided by the City's Representative. Invoices will be accompanied by a cover letter explaining the general status of the project, including at a minimum the work completed to date, the anticipated remaining efforts and required schedule changes; progress report form; supporting data for direct expenses (when specified expenses are allowed per Exhibit D, herein); an updated project status report reflecting Scope of Work activities identified by the City Representative, and any written authorizations for out-of-scope items per section 7.2 of the original Agreement.

On a monthly basis, or a time frame approved by the City and NDOT's Representative, the Consultant's Project Manager will update the City and NDOT Representative with regards to the status of the project schedule, budget and general status/progress. This task is in addition to Design Progress Meetings outlined in this Section and may be performed in a phone, email or mailed correspondence as approved by the City and NDOT Representative.

The Consultant shall maintain an effective project filing system. The filing system will document the actions taken, major project decisions made, and information obtained throughout the duration of this project.

A log/listing of the project decisions will be maintained by the Consultant. The log will be updated as the decisions are approved by the Project Manager (or design disciplines). The Consultant Project Manager will be responsible for obtaining concurrence from the NDOT and CLV Project Manager before each update is made. The log should briefly document the basis/backup to project decisions and can reference other reports or meeting minutes.

Reports prepared by the Consultant shall be submitted in draft form, and the NDOT and CLV Project Manager will have the opportunity to review and direct revisions before the formal submittal.

5.2 DESIGN MEETINGS

5.2.1 Kickoff Meeting

The final design project will be officially initiated with a project kick-off meeting, to be held within two weeks of the notice to proceed and following the Design Review Meeting for the Preliminary Design Submittal (30%). At this meeting the scope for the project will be reviewed and discussed. The detailed preliminary schedule will be presented and reviewed. The Project management plan will also be provided for review and comment. Monthly project status meetings, as identified in subsection 5.7.1, will be held the last Tuesday of each month from 10 am to 12 pm in the NDOT Las Vegas District 1 conference room with video conference to NDOT in Carson City.

5.2.2 Design Review Meetings

The Consultant shall attend design review meetings, which will be held in combination with the project status meetings identified in Task 5.7.1, to discuss and respond to comments made by NDOT and CLV and other project stakeholders on each of the three submittals, which include an Intermediate Design Review Submittal (60%), PS&E Review Submittal (Pre-Final) including a bidability and constructability review, and Final Submittal. The Consultant will prepare, distribute, and collect electronic comment forms to and from reviewers prior to the review meeting. The Consultant will resolve the issues and provide responses to all comments using the forms and redistribute to the project team. The meeting time for this task will be included as part of Task 5.7.1, this task will be for the collection and distribution of comments as indicated above.

5.2.3 Traffic Control

The Consultant shall conduct meetings and coordinate with local agencies, stakeholders, NDOT and the CLV as indicated in the following tasks in preparation of a Traffic Management Plan (TMP), as per Task 6.6.6.

5.2.3.1 Location Coordination

The Consultant shall involve, coordinate with, and get concurrence from affected local agencies on all traffic control strategies. This work is to be completed as part of our project status meetings as described as part of Task 5.7.1.

5.2.3.2 Intermediate TC Meeting

The Consultant shall prepare for, coordinate, attend, and document the results of an intermediate traffic control meeting prior to the intermediate submittal. The purpose of the meeting is to present the traffic control plans and construction schedule that have been developed as a result of the input from the conceptual layout at the preliminary stage and get feedback needed to finalize the intermediate traffic control plans. The traffic control plans should reflect accepted and approved modifications that came as a result of meeting with businesses as well.

5.2.3.3 Plan Approval

The Consultant shall attend a final traffic control review meeting with NDOT, the CLV and other project stakeholders after the Intermediate Design Submittal (60%) and prior to the PS&E Submittal (Pre-Final). NDOT, the CLV and other project stakeholders shall provide final comments to be incorporated into the traffic control estimate. It is assumed that this meeting will take place at NDOT District 1 offices in Las Vegas.

5.2.4 Right of Way Setting

There are known permanent right of way and easements along F Street from Bonanza Avenue to Washington Avenue which are required to complete the project. The goal of the project will be to set right of way after the preliminary design review to expedite the project schedule. Early utility and right of way coordination and early constructability evaluations will be needed to keep the project on schedule.

5.2.4.1 Right of Way Needs Assessment (Pre-Right of Way Setting)

The Consultant will prepare for and attend a right of way needs assessment meeting after the preliminary design review and prior to the final right of way setting. The Consultant will provide right of way needs displays and will meet with the CLV, the NDOT Project Manager and the Right of Way Division Chief to discuss the right of way needs of the project. The displays will indicate locations of permanent and temporary easements, and right of way acquisition. The Consultant will incorporate revisions from this meeting prior to the right of way setting. It's anticipated that this meeting will be conducted at NDOT District 1.

5.2.4.2 Right of Way Setting

The Consultant will prepare for and attend a right of way setting after the right of way needs assessment meeting. The Consultant will provide right of way needs displays based on feedback from the pre-right of way setting meeting. A Right-of-Way setting memo explaining the necessity for each acquisition will be required following the meeting, which will be prepared by the CLV. The Consultant will prepare drawings showing the required parcels which must be attached to the memo. It's anticipated the NDOT style right-of-way plan sheets are not required for this project. It's anticipated that this meeting will be conducted at NDOT District 1.

5.3 FIELD REVIEWS

5.3.1 During Design

The Consultant shall attend site visits as needed for the design. It is assumed that two (2) site visits will be required.

5.4 CONSTRUCTION COST ESTIMATES

5.4.1 Developing and Maintaining Construction Cost Estimates

The Consultant shall provide a detailed cost estimate including the NDOT bid item numbers, descriptions, and breakouts. Breakouts will also be consistent with the Government Accounting Standards Board (GASB-34) for transportation projects. These estimates shall be submitted with each design submittal, as indicated in Task 6 Final Design, to both the CLV and NDOT. Unit prices shall be based on the current NDOT Reasonable Bid Price Database and the NDOT Project Estimation Guide, to be obtained from the NDOT Project Manager. The estimate will also be reviewed and checked based on CLV bid abstracts for additional validation. The Consultant's estimates shall be used by NDOT to track project costs and to develop the Special Provisions. Each estimate submittal shall contain a summary of which bid items were added, deleted, or incurred a significant change from the previous submittal and will be highlighted. Based on the final estimate provided by the Consultant, NDOT will produce the Estimate of Quantities sheet(s) to be inserted into the Consultant's final submittal. The Consultant shall notify the CLV and NDOT immediately of any significant changes to the construction cost estimate.

Construction bid items and breakouts will be e-mailed to the CLV and NDOT Project Manager prior to each design submittal. Finalized estimate including quantities will be submitted with each design submittal.

5.5 SCHEDULES

5.5.1 Developing & Maintaining Design and Construction Schedule

A monthly update will be prepared by the Consultant to describe the progress of specific tasks and action items necessary to complete the design. An update of the project design schedule will be provided quarterly and additional updates may be necessary upon request of the NDOT and CLV Project Managers.

A detailed master schedule will be developed and maintained by the Consultant which will indicate the progress of the Consultant as well as the other members of the project team, including NDOT and CLV staff. The design progress schedules will be generated in MS Project, showing activities vertically on the left and time increasing chronologically across the top. Estimated start and end dates for each activity must be shown as well as notes depicting changes or specific issues related to each task. The schedule must be linked logically and shall depict the critical path, milestones and any other information of importance to the project goals. This schedule shall be used to anticipate project delay for the purposes of meeting and maintaining the project milestones and schedule.

If project delay is anticipated at any time during the project the Consultant shall immediately notify the NDOT and CLV Project Managers. A "recovery schedule" shall be coordinated and proposed in writing by the Consultant for approval by the NDOT and CLV Project Managers within one week of the notification of the delay. The NDOT and CLV Project Manager shall

agree upon the recovery schedule in writing before work proceeds. Some aspects of work may be allowed to proceed until the recovery schedule is accepted based on the discretion of the NDOT and CLV Project Managers.

Updated progress reports and project schedules shall be developed by the Consultant prior to each progress meeting and distributed to the design team. The updated schedule will show the percent complete for each of the tasks defined in the schedule and the critical activities will be highlighted and noted as such.

5.6 PROGRESS REPORTS

The Consultant shall submit a monthly status report to the NDOT and CLV Project Managers stating the status of the project. The Progress Report shall be provided each month with the monthly invoice. The report shall be an overall progress summary of activities completed to date. It will address:

- Work or tasks completed since the last report
- Task budget status and especially justification for overruns
- Needs requests between task leads and sub-consultants
- Objectives for the next month
- Changes or conflicts in scheduling, scope, and/or budget.
- Written authorizations for out-of-scope items per section 7.2 of the original Agreement.

All invoices submitted will provide a signature line for both NDOT and the CLV to indicate approval.

This work is to be completed as part of the Task 5.1, Project Management

5.7 PROJECT COORDINATION

Daily project coordination may be necessary to meet the project schedule milestones. Coordination will take place on a regular basis as further described in the Project Management Plan to be prepared by NDOT.

5.7.1 Project Status Meetings

Monthly project status meetings will be run and organized by the NDOT Project Manager. The Consultant Project Manager shall prepare for, attend and will:

- Report on the progress of development of the construction documents, reports, plans, and other project deliverables,
- Discuss upcoming milestones and the deliverables associated with them,
- Report on deviations from the schedule, and ways to recover,
- Submit requests for additional information from NDOT or other project team members, and

It is estimated that eleven (11) monthly project status meetings will be held beginning in April 2011 and ending in February 2012 taking these meetings through design and ending at the bid phase. Three (3) of the eleven (11) meetings will be combined with the design review meetings as outlined in Task 5.2.2. The monthly meetings will be held on the last Tuesday of each month from 10 am to 12 pm at the NDOT Las Vegas District 1 conference room with video conference to NDOT in Carson City. Meeting notes will be the duty of the Consultant Project Manager with

distribution to occur within one (1) week after meeting adjournment. The NDOT Project manager will distribute meeting notes to the entire team.

5.7.2 Miscellaneous Meetings

The Consultant shall attend miscellaneous meetings as required by the NDOT and CLV Project Manager. These meetings include, but are not limited to, coordination with NDOT and CLV task leaders and addressing concerns of various agencies, citizens, or special interest groups not otherwise identified in section 5.7.2. The Consultant shall be responsible for coordinating, attending and preparing meeting minutes for those meetings.

It is estimated that four (4) miscellaneous meetings shall be required and held in Las Vegas.

5.7.3 Coordination with NDOT Divisions

The Consultant Project Manager shall perform all necessary coordination with other agencies and other NDOT Divisions. The results of any pertinent coordination in which project decisions are made will be made available to the CLV and the NDOT Project Manager either over the weekly phone conversations or by email.

It is estimated that four (4) separate meetings with NDOT Divisions shall be required and held in Las Vegas.

In addition, these coordination meetings will include two (2) coordination meetings between the Consultant, CLV, NDOT Bridge, NDOT Bridge Maintenance, and NDOT Landscape Architecture to coordinate and discuss and coordinate the structural design of the architectural features such as the entry signs, and the interpretive panels.

5.7.4 Correspondence

Copies of all formal correspondence shall be forwarded immediately to NDOT, CLV and Consultant Project Managers. The Consultant Project Manager shall maintain a file of all written project correspondence. Any phone call or verbal request with the potential to affect the scope, budget, schedule or quality of the project needs to be in writing (letter or email) and forwarded immediately to the NDOT and CLV Project Manager. The file shall briefly note the identity of the sender and recipient(s), the date, and the subject of the correspondence. Consultant action related to the request will be determined by the CLV and NDOT Project Manager.

The Consultant will request all information and approvals necessary to complete the design for the project in writing and in accordance with the project schedule to provide NDOT and CLV with sufficient time to respond to the requests. The requests include but are not limited to: traffic data, survey information, mapping information, right-of-way verification information, utility information, encroachment permits, crash data, material design information, geometric approval, etc. The request shall include the date that the information is required in order to meet the schedule.

The Consultant's Project Manager shall conduct informal monthly telephone conversations with the NDOT and CLV Project Manager and other key project personnel as appropriate, e.g. conference calling. Project progress, consultant budget and the project schedule shall be discussed.

This work is to be completed as part of the Task 5.1, Project Management.

5.7.5 Project Management Plan

The Consultant shall assist the NDOT Project Manager with the development of a Project Management Plan according to the NDOT Project Management Guidelines and as further described in the original Agreement per Task 3.6.5. The Consultant will review draft versions and provide comments. In addition the Consultant will provide the design schedule as prepared under Task 5.5.1.

5.8 QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC)

The Consultant is responsible for the accuracy and completeness of the plans and related design prepared under this contract and shall check all such material accordingly. The consultant, the geotechnical and electrical sub-consultants, and all other sub-consultants shall have a quality control plan in effect during the entire time work is being performed under this contract. The plan shall establish a process whereby plans, reports, calculations and documents submitted for review shall be clearly marked as being fully checked by a qualified individual other than the originator. The NDOT Project Manager may perform periodic Quality Control audits. The Quality Assurance check set will be submitted to the NDOT Project Manager prior to submitting the plans to NDOT for independent checking. The check set will contain all elements defined in the approved Quality Control Plan.

5.8.1 Consultant Plan and Quality Reviews

The Consultant will utilize the QA/QC plan as prepared and approved under the original Agreement, Task 3.7.1 for the work described under this Amendment, no modifications are anticipated.

This task will be to implement, and perform QA/QC reviews as outlined within the QA/QC plan for each formal submittal to the CLV and NDOT. These reviews for each submittal stage will be provided as an independent review of the submittal packages as a whole, and does not include the individual discipline specific reviews which are to be conducted as part of those tasks. This task does not include the detailed independent checking review as required by NDOT structures which shall be completed as part of those tasks.

5.8.2 Constructability Review and Construction Schedule

The Consultant will conduct a constructability review including an evaluation of the engineers estimate and unit bid prices. The review shall look at the feasibility of building the project while maintaining a safe work environment for the contractor and the general public. The constructability review will identify type of equipment, access issues and needs, construction methods to minimize R/W impacts to the project to improve the efficiency of the design. Constructability reviews will identify material availability and make recommendations for alternative construction methods and materials. The constructability review will be necessary to identify the need for temporary or permanent right of way easements prior to the right of way setting at the preliminary submittal. The review will also identify recommendations to improve the construction and maintain or compress the construction schedule. The review shall identify deficiencies in the documents that may create an unbalanced or unfavorable bid. The Consultant shall meet and coordinate with NDOT Constructability staff and other NDOT staff, as determined by the NDOT Project Manager, in addition to the CLV staff to determine final solutions.

The CLV or NDOT may contract with a third party to perform a bid and constructability review. The Consultant will coordinate with and address comments as received from this review.

As part of the Design Review Meeting for the PS&E Submittal (Pre-Final), Task 5.2.2, the Consultant's Project Manager will obtain comments from the Constructability Review of the third party, NDOT and the CLV. The Consultant shall independently assemble written comments which address potential constructability shortfalls, value analysis points, and recommendations for correcting associated designs deficiencies.

At the time of the PS&E Review Submittal (Pre-Final), the Consultant will provide a preliminary schedule for the construction duration.

5.9 PUBLIC RELATIONS

The public outreach and information for this project will be managed by the CLV communications team. The design Consultant will be responsible to coordinate project information with the CLV and NDOT and to attend public information meetings. The CLV communications staff will be included in project meetings as appropriate to ensure that pertinent information is conveyed.

5.9.1 Supplemental Public Outreach

The Consultant shall assist the CLV communications team, NDOT Project Manager and the NDOT Public Information Officer with creating, preparing and releasing relevant and timely information to the media regarding project status. This work will be conducted as approved as part of authorization of additional services, and is not included as part of this base scope of work.

5.9.2 Interpretive Panel Design Workshop

The Consultant shall prepare for and attend a Design Development Workshop to obtain public/stakeholder comments and input in order to develop and gain concurrence for a preferred aesthetic treatment on the interpretive panels to be constructed on the bridge abutment walls under I-15 and a plaque commemorating the reopening of F Street.

5.9.2.1 Interpretive Panel Design

The Consultant will coordinate with the CLV and NDOT to create a mailer in order to solicit ideas from the community and other key stakeholders for the preparation of three (3) conceptual alternatives for the interpretive panels and a plaque commemorating the reopening of F Street. The Consultant, with the assistance of the CLV and NDOT, will prepare an outline and the content for the mailer. This format and outline will be reviewed via email correspondence and finalized over a conference call as required. Once finalized, the CLV will prepare all the final graphics, create copies of the mailer, and mail as required. The Consultant will provide a digital copy of any necessary graphics to be included within the mailer.

Following the distribution of the mailer and receipt of community/stakeholder feedback, the Consultant will conduct a debrief of the ideas received with CLV and NDOT staff to review the outcome and determine the focus for moving forward towards the creation of three (3) interpretive panel alternatives and a plaque commemorating the reopening of F Street to be presented at the Interpretive Panel Design Workshop.

5.9.2.2 Council and Senator Briefing

The Consultant will attend a briefing to present the three (3) interpretive panel alternatives and the plaque commemorating the reopening of F Street as derived from the input received as part of Task 5.9.2.1. The Consultant's staff will prepare the materials and the CLV and NDOT staff will conduct the meeting.

5.9.2.3 Interpretive Panel Design Workshop

The Consultant will conduct an Interpretive Panel Design Workshop in order to present the three (3) interpretive panel alternatives and a plaque commemorating the reopening of F Street which were derived from input received from the Community mailer as indicated in Task 5.9.2.1, and further refined following the Council and Senator Briefing described in Task 5.9.2.2. In preparations of this meeting, the Consultant will analyze and review the feedback from the Council and Senator Briefing. The Consultant will modify and update the alternatives to address the additional input, as appropriate.

The Consultant, with the assistance of the CLV and NDOT, will prepare an outline and meeting format. This format and outline will be reviewed and the meeting will be planned over a series of three (3) face to face meetings to be conducted at the CLV, and conference calls as required. The meeting will be conducted in a group setting. Following the presentation of the interpretive panel alternatives, the Consultant will conduct a series of voting exercises with the entire group to select a preferred alternative. The Consultant will prepare graphic presentations for this meeting as needed. The City will be responsible for conducting and facilitating this meeting. The Consultant will attend meetings in preparation of the workshop which will be conducted by the CLV at the City. The Consultant will include the preparation of the presentation of materials including display boards, development of 3D renderings, handouts, power point presentations and polling devices. The CLV will schedule the meeting, meeting room, and handle all notifications to the public/stakeholders.

5.10 PROJECT CLOSEOUT

The Consultant shall provide the CLV and NDOT Project Manager with copies of project documentation which includes, but is not limited to, correspondence, design criteria, design calculations, CADD files, all digital files, final cost estimate, quantity book, and bid supplemental.

5.11 DELIVERABLES

- 5.11.1 Meeting Minutes
- 5.11.2 Master Project Design Schedule Updates
- 5.11.3 Monthly Progress Report
- 5.11.4 Constructability Review Comments
- 5.11.5 Construction Cost Estimate, including updates
- 5.11.6 Preliminary Construction Schedule
- 5.11.7 Contact Log/Correspondence
- 5.11.8 Interpretive Panel Concepts (3)
- 5.11.9 Project Closeout

Prior to any electronic submittal, the Consultant shall, using commercially available software with current virus definitions, certify that electronic submittals are free of electronic "viruses", "worms", "Trojan horses", and other programs or data stored on the host computer or the electronic submittal. Should the City choose to check incoming electronic submittals for such

afflictions, utilizing commercially available software and at the first indication of such an affliction, the entire electronic submittal will be considered unacceptable and will be returned to the Consultant. The Consultant shall remove the unwanted programs or the unwanted programs or data and further verify the integrity of the electronic submittal. The Consultant shall bear the expense of correction, checking and re-submittal and shall not be released from submittal requirements.

6. FINAL DESIGN

The final design submittals shall meet all Road Design Guide design submittal requirements.

The Consultant shall prepare the final Plans, Specifications & Estimate (PS&E) in the English system of measurement for construction of the Project in an NDOT format. It is anticipated that NDOT will advertise, award and administer the construction of the project.

Designs and drawings shall be prepared in English units using MicroStation V8i (version 08.11.05.17) and InRoads (version 08.11.05.47) software, and will adhere to the plan preparation section of the NDOT 2010 Design Guide. Converted AutoCAD files shall not be accepted. The plan sheets shall be at 1"=100' scale with stationing from left to right. All plans or drawings shall be prepared on 11" x 17" sheets, meet those requirements as indicated within Task 2.1 of the original Agreement, and shall include all improvement drawings as listed under Task 6.11.12.4. The plan sheets shall include location of known existing and proposed (by others) utilities, drainage facilities, right-of-way, and centerline control and property owners.

PS&E plans will be provided at the Intermediate Design Review Submittal (60%), PS&E Review Submittal (Pre-Final) and Final Submittals as follows:

1. Intermediate Design Submittal (60%): The Consultant shall prepare and submit two (2) sets of plans and a PDF file to NDOT for reproduction and the distribution of sets to NDOT divisions, the CLV and all utility companies for review and comment. In addition to the plan sets, a PDF file will also be provided containing an estimate of probable costs utilizing NDOT bid items, and a preliminary construction schedule for distribution. Following the review of the submittal package, the Consultant shall meet with the CLV, NDOT and other agencies to obtain and review the comments as per Task 5.2.2 on the Intermediate Design Submittal (60%) package.
2. PS&E Review Submittal (Pre-Final): The Consultant shall prepare and submit six (6) sets to the CLV and four (4) sets to NDOT for review and comment. In addition to the plan sets, a PDF file will also be provided containing an estimate of probable costs utilizing NDOT bid items, and a preliminary construction schedule for distribution. Following the review of the submittal package, which will include a bidability and constructability review by the CLV and NDOT, the Consultant shall meet with the CLV, NDOT and other agencies to obtain and review the comments as per Task 5.2.2 on the PS&E Review Submittal (Pre-Final) package. In addition a PDF file of the plan set will be distributed to NDOT for reproduction and the distribution to all utility companies as required for review and comment.
3. Final Submittal: The Consultant shall prepare and submit four (4) sets of plans and a PDF file to NDOT for reproduction and the distribution of sets to NDOT divisions, the CLV and all utility companies for final review and comment. In addition to the plan sets, a PDF file will also be provided containing an estimate of probable costs utilizing NDOT bid items, and a preliminary construction schedule for distribution. Following the review of the submittal package, the Consultant shall meet with the CLV, NDOT and other agencies to obtain and review the comments as per Task 5.2.2 on the PS&E Review Submittal (Pre-Final) package.

4. Bid Submittal: The Consultant shall provide a hard copy and a PDF file of original sealed plans, quantities, cost estimate and calculations. The NDOT Project Manager will obtain signatures from the NDOT Director. The Consultant shall obtain signatures from all other agencies, and will provide the final cover sheet to the CITY's designated project manager to obtain internal final signatures.

The PS&E plans are anticipated to include the following plan sheets and design:

6.1 GENERAL PLAN SHEETS

The Consultant shall prepare general plan sheets including a cover/title sheet (one for NDOT and another for CLV and local agencies), general notes, location sketch, surface quantities and theoretical applications for paving and base materials, and earthwork summary sheets.

6.2 LOCATION/SURVEY

As per the original Agreement, NDOT has provided information and data necessary for the location and survey associated with this project. The Consultant shall use this information to prepare control and alignment sheets for the project. All surveys and mapping shall conform to NDOT's "Special Instructions for Survey, Mapping, or GIS Consultants" dated September 2002. All surveys shall be referenced directly to the current Survey Control Network established by NDOT.

6.2.1 Field Survey

The Consultant will utilize existing survey information provided by NDOT under the original Agreement and will provide any additional field survey as required to complete the final design outlined within this Amendment. This survey will include, but is not limited to, topographic features, including inside and outside edges of pavement to perpetuate existing cross slopes and match existing grades, project match points, drainage facility locations and inverts, utilities, clearances, sign locations, and other details not included in the aerial base mapping supplied by NDOT or needed for design grade accuracy for widening, vertical alignments, and retaining walls.

All surveys will be referenced directly to the current Survey Control Network established by NDOT. All survey work will meet or exceed standards according to the NDOT "Special Instructions for Survey, Mapping, or GIS Consultants" handbook. Survey specifications and procedures will be completed in accordance with the "Special Instructions for Survey, Mapping, or GIS Consultants" handbook available from the NDOT Location Division.

6.3 ROADWAY

Final design will be provided by the Consultant following approval of the Preliminary Design Review Submittal (30%) as included within the original Agreement.

6.3.1 Final Design Plans

Upon approval of the Preliminary Design Review Submittal (30%) per the original Agreement, the Consultant shall develop final design plans for construction of the project. The plans shall be prepared on NDOT standard 11"x17" sheets and in conformance with the NDOT Road Design Guide requirements and Task 2.1 of the original Agreement. The Consultant will prepare roadway plan sheets, roadway removal and rehabilitation sheets, typical sections, profile

sheets, gore details as required, special details and the associated structures lists for roadway and removal items. In addition, the Consultant will prepare the back-up quantity reports in an NDOT format along with the required roadway earthwork cross section report and summary.

6.4 STRUCTURAL

Bridge data collection, the structures design criteria memorandum and structural type selection report for the bridge and retaining walls have been completed under the original Agreement and will be the basis of the final structural design. It's anticipated that no structural work will be required for utility, drainage or sign structures. Final bridge and retaining structure designs shall be prepared in accordance with the recommendations of the Final Geotechnical Report and the design references as indicated in Task 2.1 of the original Agreement.

6.4.1 Final Bridge Design

Prepare final bridge design, construction documents and calculations based on the approved type selection report, as per the original Agreement, for the I-15 mainline and adjacent SE ramp and D1 ramp structures crossing F Street. For the purpose of this Amendment, it's anticipated that the preferred structure type will consist of short seat abutments on closely spaced drilled shafts (CDIH piles) with a tie-back wall face and a composite steel superstructure. A super structure type of Cast-in-Place Pre-Stressed Box Girder or Pre-Cast Pre-Stressed Concrete "I" Girders could also be accommodated under this scope of services. Any other structure type (super- or sub-structure) may require authorization of additional services. The plans will be presented in NDOT format. Bar marks, bent bar diagrams and bill of materials along with detailed log of test borings will be provided in the final submittal. The design will follow the LRFD method as required for new bridge structures. Architectural treatment detailing for the bridges will be included under Task 4.7.2 of the original Agreement and according to the approved conceptual aesthetics plan.

6.4.2 Final Retaining Wall Design

Prepare final retaining wall design and/or modifications to existing retaining walls, construction documents and calculations based on the approved type selection report, as per the original Agreement, for the proposed retaining walls along I-15 approaching the new bridge structure at F Street and along both sides of F Street from I-15 to McWilliams in NDOT format. Bar marks, bent bar diagrams and bill of materials will be provided in the final submittal. Architectural treatment detailing for retaining walls will be included under Task 4.7.2 of the original Agreement and according to the approved conceptual aesthetics plan.

6.4.3 Structural Design for Aesthetic Treatments

The Consultant will prepare the structural design as required for architectural elements as defined under Task 6.7, below. These features will include the structural design for the icon towers, entry accent frames, entry accent signs, interpretative panels, and the illuminated decade marker support frames.

6.5 DRAINAGE

As stated in the preliminary analysis (30%) submittal, and per the original Agreement, an off-site hydrologic analysis will not be performed and the offsite flows impacting the project will be referenced from previous drainage reports provided to the Consultant by NDOT and/or the CLV. Roadway on-site surface drainage design (limited to F Street) will be advanced from the

preliminary analysis to final design. Should existing freeway drainage facilities need to be modified or additional analysis provided, then an additional service request will be negotiated.

The Consultant shall perform all necessary drainage design for the project in accordance with the NDOT Drainage Manual, NDOT Storm Water Quality Manuals and CCRFCD Hydrologic Criteria and Drainage Design Manual requirements.

6.5.1 Final Drainage Report Analysis

The Consultant shall use the existing and proposed hydrologic conditions for areas impacting the drainage within the project limits developed for the preliminary design (30%) and modified accordingly based on comments received from the CLV and NDOT. As stated in the original Agreement an off-site hydrologic analysis will not be performed.

The Consultant shall advance the preliminary hydraulic design (30%) to final design, incorporating all comments received from the CLV and NDOT. Horizontal stationing of improvements and profiles for onsite storm drainage facilities will be developed, identifying design capacities for on-site improvements. Should existing freeway drainage facilities need to be modified or additional analysis provided, then an additional service request will be negotiated.

Drainage report summarizing the findings and recommendations of the hydrologic and hydraulic analysis shall be developed and submitted for NDOT and CLV review. The report shall specifically address NDOT, CCRFCD, and Local requirements as defined in the NDOT Drainage Manual and this Amendment. All comments will be addressed with a written response and shall be provided and documented in following report. The Consultant shall refine the drainage design between each submittal as outlined in the NDOT Drainage Manual. The drainage report will only be submitted for the PS&E (Pre-Final) Submittal as a Final submittal.

6.5.2 Drainage Plans

Drainage plans shall be developed and submitted for NDOT and CLV review. The plans shall specifically address NDOT, CCRFCD, and Local requirements as defined in the NDOT Drainage Manual and this Amendment. All comments will be addressed with a written response and shall be provided and documented in the final report. The Consultant shall refine the drainage design between each submittal as outlined in the NDOT Drainage Manual.

- Intermediate (60%) Design Review Submittal – The intermediate submittal will incorporate and reconcile any preliminary design review comments. Additionally, it will include a substantially complete on-site and off-site drainage design, indicate any final easement locations, and substantially complete profiles for all facilities. Drainage details will show general approach and major dimensions. This submittal will include the revised and updated drainage design plans and will not include a drainage report.
- PS&E (Pre-Final) Review Submittal – The PS&E submittal will incorporate and reconcile any intermediate design review submittal comments. The final drainage report will be updated and included with this submittal.
- Final Design Review Submittal – The final submittal will incorporate and reconcile all previously identified comments. This submittal will include the revised and updated drainage design plans and will not include a drainage report.

6.6 TRAFFIC

All traffic related design should be closely coordinated through the NDOT and CLV Project managers, with the NDOT Traffic, Maintenance and Operations and Construction Divisions, FHWA and CLV Traffic staff through final design.

6.6.1 ITS

The Consultant shall prepare ITS plans which will be prepared to perpetuate and repair the existing ITS system as a result of traffic control and the new roadway improvements. These systems include the main fiber trunk main running parallel to I-15 in the north and south direction. In addition, ramp metering facilities located on the southbound on-ramp from D Street to I-15 South will need to be removed and relocated as necessary.

6.6.2 Signals

Signal plans will be prepared for the intersections of the D Connector and Washington Avenue at F Street. The Consultant will prepare complete signal plans for these two intersections for the ultimate condition, while providing for the construction of interim improvements such as conduit and signal foundation. In addition, signal plans will be prepared for the modifications of the existing signal at Bonanza Road at F Street.

6.6.3 Lighting

The Consultant shall prepare lighting plans along F Street which meets the Illuminance design values of AASHTO's Roadway Lighting Design Guide. The Consultant shall work with NV Energy (NVE) and coordinate with NDOT Right-of-Way Utilities or CLV for power services locations. Existing lighting will be perpetuated where feasible. The design shall provide for new/relocated lighting along F Street, bridge under-deck lighting at I-15, sign lighting, removal and replacement of high mast lighting along I-15 for traffic control, and aesthetic lighting as required to illuminate the interpretive panels under I-15, and power for irrigation systems. It's anticipated that two service point locations will be required; one for CLV services, and one for NDOT. Lighting plans will also include freeway lighting impacted as a result of traffic control which would need to be removed and replaced; no lighting analysis along I-15 is anticipated. This work will also include the electrical systems required for the installation of new service pedestals, including the conduit to the power source, and the relocation of existing power services to accommodate the relocation of existing overhead power lines. No landscape accent lighting is anticipated.

6.6.4 Signing

The Consultant will prepare permanent signing plans which will include surface street signing, and freeway signing affected as a result of traffic control. Signing plans will be based on MUTCD and NDOT standards.

6.6.5 Striping

The Consultant will prepare permanent striping plans for the roadways within the project limits based on MUTCD and NDOT standards. This work will include freeway striping as a result of removals associated with the traffic control in addition to surface streets.

6.6.6 Final Traffic Management Plan (TMP)

The final TMP will require continual coordination with the various stakeholders and the TMP team, the Consultant shall:

- Develop Temporary Traffic Control (TTC) Plans that include but are not limited to temporary signing and striping, traffic control devices, work zone area, lane assignments, detours, and construction staging plans.
- Develop Transportation Operations (TO) Plan that includes but is not limited to determining constraints and requirements that are needed in the TTC, determining constraints that affect traffic operations such as reducing number of lanes, lowering speed limit, lane widths, working days and hourly limitations, and determining impact in the adjacent network and identify the mitigation strategies.
- Develop Public Information Plan
- A final TMP report that includes TTC plans, TO Plan and PI Plan will be prepared in compliance with NDOT requirements.

6.7 AESTHETICS

Aesthetics will include the development and design of hardscape improvements, landscaping and irrigation, and bridge and retaining wall aesthetic treatments based on the preferred conceptual design alternative, "Historical". Design will include the development of interpretive panel alternatives including a plaque commemorating the reopening of F Street to be presented to the public for review and selection, and final design plans which will include an Intermediate Design Review Submittal (60%), PS&E Review Submittal (Pre-Final), and Final Submittal.

6.7.1 Preliminary Design Development and Public Involvement

6.7.1.1 Interpretive Design Development

Working with CLV and NDOT staff, the Consultant will develop three (3) aesthetic treatment alternatives for the interpretive panels and associated elements located under the bridges as shown in the preferred conceptual design alternative. These alternatives will be used to determine the visual quality of the elements under the bridges only for a single decade, or one panel of the entire wall. In addition, the historical figures and facts that are highlighted throughout the design will be determined during this task as outlined in Task 5.9.2, and a table containing the data collected will be create. The level of treatment will follow the standards set forth in *Pattern and Palette of Place: A Landscape and Aesthetics Master Plan for the Nevada State Highway System* and the *I-15 Landscape and Aesthetics Corridor Plan*.

6.7.2 Final Design Plans

6.7.2.1 Aesthetic Plans

The Consultant will prepare an Intermediate Design Review Submittal (60%) for the aesthetics plans based on the preferred conceptual design alternative, "Historical", and comments received from the public as part of the preliminary design development, task 6.7.1. Working with the CLV and NDOT staff, the Consultant will further develop aesthetic treatments for abutment walls, retaining walls, structures and ground plane, as necessary. The level of treatment will follow the standards set forth in *Pattern and Palette of Place: A Landscape and Aesthetics Master Plan for the Nevada State Highway System* and the *I-15 Landscape and Aesthetics Corridor Plan*.

The Consultant will prepare a PS&E Review Submittal (Pre-Final) for the aesthetics plans that will incorporate comments from the Intermediate Design Review Submittal (60%) submittal. The aesthetic treatments will be applied to abutment walls, retaining walls, structures and ground plane, as necessary. Construction details and outline specifications will accompany this submittal.

The Consultant will prepare a Final Submittal for the aesthetics plans that will incorporate comments from the PS&E Submittal (Pre-Final). The aesthetic treatments will be applied to abutment walls, retaining walls, structures and ground plane, as necessary. Construction details and specifications will accompany this submittal.

6.7.2.2 Landscape Planting

The Consultant will prepare an Intermediate Design Review Submittal (60%) for the landscaping that indicates tree placement from I-15 north along F Street, terminating at Washington Avenue, all within CLV right-of-way. A plant palette given to the Consultant by the CLV will be utilized representing the plant material that is coordinated with the planned D Street streetscape design. A plant schedule will be prepared listing all plant material with botanical and common names.

The Consultant will prepare a PS&E Review Submittal (Pre-Final) and a Final Submittal for the landscaping that will incorporate comments from the submittal preceding, and will indicate tree placement, shrub massings and groundcover plantings as directed by the CLV. A plant palette given to the Consultant by the CLV will be utilized representing the plant material that is coordinated with the planned D Street streetscape design. A plant schedule will be prepared listing all plant material with botanical and common names, plant material size and quantities. Construction details and outline specifications will accompany this submittal. Coordination of landscape planting will also be conducted with NDOT District 1 maintenance as required and only when within NDOT right-of-way.

6.7.2.3 Landscape Irrigation

The Consultant will prepare an Intermediate Design Review Submittal (60%) irrigation plans indicating the location of point of connection, irrigation zones and irrigation sleeving. This document will be used to coordinate with the other proposed utility improvements associated with the project.

The Consultant will prepare a PS&E Review Submittal (Pre-Final) and a Final Submittal for the landscaping that will incorporate comments from the submittal preceding, and will indicate the location of point of connection, irrigation zones, irrigation sleeving, valves, mainline, lateral lines and a central control unit (CCU). Manufacturer of the CCU shall comply with the requirements of the agency responsible for physical maintenance. That agency shall be responsible for obtaining any sole source requirements. In addition water service connections will be designated and designed as required, along with any necessary power service for irrigation systems and aesthetic lighting requirements. Construction details and specifications will accompany this submittal. Coordination of landscape irrigation will also be conducted with NDOT District 1 maintenance as required and only when within NDOT right-of-way.

6.7.2.4 Cost Estimates

The Consultant will prepare a preliminary opinion of possible construction and long term maintenance cost for all landscape and aesthetic treatments, for each submittal along with the associated structure list.

6.8 RIGHT-OF-WAY

6.8.1 Utility Designating and Coordination

Consultant shall provide by subcontractor or otherwise, potholing to determine the exact horizontal and vertical location of utilities or other underground improvements that may be in conflict with the proposed utility and storm drain relocations. Potholing will utilize vacuum excavating techniques and will be providing meeting the requirements of this Amendment and those identified within Task 4.8 of the original Agreement. If utility depths are greater than 10 feet, utilization of a backhoe may be necessary. The use of a backhoe may require additional Consultant fee. This task will also include survey as required to locate the horizontal and vertical location of the proposed test holes including CLV and NDOT permitting as required. It is assumed that approximately five (5) potholes are required. The Consultant shall prepare and submit a preliminary utility conflict schedule that includes recommendations for the additional potholing. The locations of all pothole requests are to be approved by the CLV and NDOT prior to the work being performed. In addition, utility tracing will be completed at the location of all proposed inlets to determine the horizontal location of the utility and if a conflict exists. Additional test holes will be completed as part of supplemental services.

It is anticipated that separate utility coordination meetings will occur with each of the impacted utilities, to include the Las Vegas Valley Water District (LVVWD), Cox Communications, Embarq, Southwest Gas, NV Energy Transmission and Distribution, and CLV Sewer. It's anticipated that NV Energy Distribution will require up to three (3) coordination meetings, while all others will require no more than one (1) separate meeting beyond our monthly progress meetings. The NDOT and CLV, with assistance from the Consultant, will coordinate with each of these utilities companies for the relocation of their facilities. Reviews will be completed to confirm conformance with the proposed design. It is assumed that each utility will design and relocate their facilities outside of those indicated within this Amendment. In the event that the utility is to complete their work as part of this bid package, the Consultant shall add their design plans to the bid package, and shall accommodate for these items in the specifications and bid quantities.

The Consultant shall prepare and maintain a utility conflict schedule showing the utility conflicts, relocation schedules, and estimated costs throughout the duration of final design. The conflict report will identify all existing utilities within the corridor and cross-streets that could be impacted. This existing utility information will be as complete and accurate as the information provided by utility companies. The conflict report will also identify proposed design features, their footprint, and conflict locations with existing utilities highlighted. Cross-section information will be provided at each conflict location identifying existing ground, the approximate utility location and the design features. A spreadsheet will be created identifying and numbering each potential impact location, the utility ownership, potential impact information, pothole information (if available), and relocation recommendations. This schedule will be updated after each design submittal as more information is made available and will include conflict resolution information and right-of-way impact status once the relocation design is reviewed and each conflict is resolved.

The Consultant shall obtain, from the utility companies in conflict, prior rights verification for the purposes of allocating cost of relocations or adjustments.

The Consultant, through NDOT, will provide each utility company with design files and information as well as cross sectional information to determine the optimal location for new or

relocated facilities. The Consultant will review utility relocation plans and permits and provide NDOT with comments and constraints to ensure conflicts have been resolved.

If right-of-way acquisition is not necessary the Consultant will confirm that all impacts to utilities have been addressed and resolved to the degree that any relocations or adjustments can be made within existing right-of-way.

6.8.2 Right of Way Engineering

The Consultant shall research existing surveys, parcel maps, and other records as necessary to obtain needed data in preparation of setting all existing CLV Right-of-Way along F Street and its intersecting streets within the project limits. This will be set based on available records.

The Consultant shall prepare legal descriptions and exhibits in a CLV format for the City's use in obtaining the necessary rights of way. This will be based on the easements and right-of-way requirements identified under the original Agreement. This scope doesn't include any that have not been identified for the relocation of any utilities including NV Energy. The Consultant is not scoped to provide any right of way acquisitions, right of way drawings in an NDOT format or title research. If it's required that the Consultant is to provide additional evaluation or acquisition of permanent right-of-way, utility easements or temporary easements, then an additional services request will be negotiated. It is assumed that CLV will perform work necessary for the appraisals and acquisitions.

6.8.3 Utility Engineering

Through final design, the Consultant shall be responsible for an inventory of all valves and manhole covers within the project limits, which shall be shown on the plans and shall list the name of the owner(s) on the Structure List. This inventory shall also include any survey monuments within the anticipated disturbed area of the project. The Consultant shall identify any potential impact with existing utilities associated with the proposed improvements. It will be the responsibility of the NDOT Utility Right-of-Way Agent shall coordinate the relocations with the utility companies and will be responsible for writing any necessary agreements for the relocations which are within NDOT Right-of-Way.

The Consultant shall prepare plan sheets for the relocation of existing utilities within F Street between Bonanza Road and McWilliams Avenue which are the responsibility of NDOT and/or the CLV. It's anticipated that an existing waterline and sewer line will need to be removed and replaced to accommodate the new vertical location of F Street. The Consultant will complete the design of the relocation of these facilities but will not be required to provide any sizing or analysis for the existing waterline and/or sewer.

The Consultant shall also prepare plan sheets for new utility services to accommodate the proposed aesthetic plan and lighting layout. This will include providing water and electrical service for irrigation systems, and power service needs for street lighting. These services will be completed as part of Tasks 6.6 and 6.7 as indicated above. It's anticipated that no other new utilities and /or services are proposed to be designed under this contract.

6.9 MATERIALS

The Consultant will hire a firm specializing in geotechnical engineering to provide all necessary testing and foundation recommendations.

6.9.1 Geotechnical

The Consultant shall review all available geotechnical information of the area including published geologic and geologic hazard maps from the Nevada Bureau of Mines and Geology and the U.S Geological Survey. The investigation shall consist of research, review, analysis, and report preparation for use during final design and bidding. The Consultant will be responsible for all exploration and laboratory testing to be performed as necessary to supplement NDOT data. These investigations, including sampling, testing, analysis, subsequent design, and reports shall be in accordance with NDOT's Geotechnical Policies and Procedures Manual (2005). The reports and design calculations are to be submitted to the CLV and NDOT for review, comment and approval. All investigations, analysis and design/construction recommendations shall be according to NDOT, AASHTO and FHWA guidelines.

Field Program: Based on information from the 30% plans, the project work scope, the results of the Geotechnical Desk Study of the project site, and development history, the Consultant shall drill a total of 4-borings to a depth of 100 feet below native ground adjacent to I-15, at each bridge abutment. In addition 2-borings will be drilled to depths of 10 feet along the "F" Street alignment to provide recommendations for utility relocation or replacement. One 4-inch asphalt core sample will be taken in the "F" Street alignment to evaluate the existing pavement structural section. Split-spoon penetration testing (SPT) and soil sampling will be performed in general accordance with ASTM test method D1586 at 5 foot intervals to a depth of 50 feet and at 10 foot intervals to the final depth drilled. Once the samples have been collected and classified in the field, they will be placed in appropriate sample containers for transport to our laboratory. The Consultant will also include all necessary traffic control and permitting to perform the work described.

The Consultant shall obtain theoretical application rates, core data, and structural section information from NDOT. The Consultant shall show this information on the typical sections and/or summary sheets.

The geotechnical Sub Consultant shall review all plans and specifications to verify that all geotechnical recommendations have been incorporated.

6.9.1.1 Report

The geotechnical report shall include, but not limited to the following:

- Test boring location plan
- Logs of test borings with soil stratification based on visual soil classification
- Groundwater levels observed during and after completion of drilling
- Subsurface exploration procedures
- Encountered soils conditions
- Erosion characteristics of on-site soils
- Summarized laboratory data
- Design values for allowable bearing capacity for shallow and deep foundations. This will include bridge and sign foundations, and foundations as required for aesthetic treatments.
- Estimated settlements of foundations and walls
- Construction drainage control
- Seismic Site Classification
- Subgrade preparation / earthwork recommendations

Roadbed and Pavement Design – The Consultant shall conduct all field exploration and tests needed to design the pavement structural section. NDOT Materials Division will design the pavement structural section on I-15 and NDOT owned/maintained roadways using NDOT pavement design criteria. Pavement design on CLV owned/maintained streets will be the responsibility of the Consultant using CLV pavement design criteria.

For bidding, the Consultant shall split the field data and lab analysis into a separate volume to be utilized during the bidding phase.

6.10 SPECIFICATIONS

6.10.1 Notes to Specifications

The Consultant shall provide Special Provisions Notes to the NDOT Project Manager. The final Special Provisions shall be written by the NDOT.

6.10.1.1 Section 108.04 – Limitations of Operations

The Consultant shall prepare a draft Subsection 108.04, Limitation of Operations, which includes operational limits, phasing limits, working hour limits, traffic impact limits, restricted work limits, and construction milestones based on the construction sequencing and traffic control meetings.

6.10.1.2 Special Write-ups/Bid Items

The Consultant shall provide Special Provisions Notes to the NDOT Project Manager. The final Special Provisions shall be written by NDOT. The Special Provisions Notes shall be written in the imperative mood (see page 1 of the Standard Specifications) and in a format identical to the current edition of NDOT'S Standard Specifications for Road and Bridge Construction. The Special Provisions Notes shall be created and delivered in WordPerfect, using Universal font size 11 (use font size 9 for tables and footnotes). Files created in Microsoft Word and converted to WordPerfect will not be accepted.

The Special Provisions Notes shall only include information that is not covered in the Standard Specifications or current Specifications Pull Sheets. Copies of product brochures or product specifications are not acceptable. If it is necessary to specify materials by brand or trade name, a minimum of two brands must be provided and followed by the words "or approved equal." Where an individual product or trade name requires "sole source" use, a written justification must be provided. The justification to "sole source" requires review and approval by NDOT'S Chief Road Design Engineer and possibly FHWA.

6.11 DELIVERABLES

- 6.11.1 Final Drainage Report
- 6.11.2 Landscape and Aesthetic construction and maintenance estimates
- 6.11.3 Design Review Submittal (60%) including a complete cost estimate with NDOT bid items
- 6.11.4 PS&E Review Submittal (Pre-Final) including a complete cost estimate with NDOT bid items
- 6.11.5 Final Submittal
- 6.11.6 Final Estimate with NDOT Bid Items
- 6.11.7 Notes to Specifications
- 6.11.8 Final Design Report
- 6.11.9 Final Traffic Management Plan

- 6.11.10 Final Geotechnical Report
- 6.11.11 Utility Conflict Report
- 6.11.12 Final Cross Sections
- 6.11.13 Plan Submittals

- 6.11.13.1 Design Review Submittal (60%)
- 6.11.13.2 PS&E Submittal (Pre-Final)
- 6.11.13.3 Final Submittal
- 6.11.13.4 List of Sheet Types for each Submittal

- Title Sheet (base provided by NDOT)
- Location Sketch
- Typical Sections
- Summary of Surfacing Quantities, Earthwork Summary, General Notes, Theoretical Application Rates, Summary of Traffic Control Devices, Core Data, and Estimate of Quantities (to be provided by NDOT)
- Survey Control Sheets (provided by NDOT)
- Roadway Plan/Profile Sheets
- Geometric Sheets
- Special Details
 - Gore Details
 - ITS
 - Removal Sheets
 - Grading Details
- Landscape Sheets
 - Site Plan
 - Layout Plans
 - Irrigation Plans
 - Landscape Details
 - Irrigation Details
- Drainage Sheets
 - Drainage Details and Profiles
 - Grading information is included in the Drainage Plan Sheets
 - Temporary and Permanent Erosion Control plans if necessary
- Utility Plans
- Permanent Striping Details
- Traffic Control Plan Sheets
- Signals/Lighting
- ITS Plan Sheets
- Sign Removal Sheets
- Permanent Sign Sheets
- Bridge Sheets
- Retaining Wall Sheets
- Boring Logs Location Map with Logs
- Structure Lists

The design submittals shall be sufficient detail for reviewers to evaluate the design for compliance with required criteria.

BID AND CONSTRUCTION SUPPORT SERVICES

7. CONTRACT ADMINISTRATION SUPPORT

It is anticipated that NDOT will advertise, award and administer the construction of the project.

7.1 SUPPLEMENTAL NOTICES

The Consultant shall provide additional drawings, cost estimates, quantities, and specifications as required by NDOT in response to RFI's for Supplemental Notices, if needed. Two (2) Supplemental Notices are anticipated. The Consultant shall make all necessary revisions or corrections resulting from errors and omissions on the part of the Consultant without additional compensation. Acceptance of the professional services by NDOT will not relieve the Consultant of the responsibility for subsequent correction of any such errors and the clarification of any ambiguities. The Consultant will be responsible for additional costs in subsequent related construction resulting from errors or omissions due to incompetence or negligence.

7.2 PRE-BID CONFERENCES

The Consultant shall attend a pre-bid conference, if held, to be conducted by NDOT.

7.3 BID ANALYSIS

The Consultant shall provide a bid analysis after bid opening as requested by the NDOT Project Manager. The Consultant shall assist NDOT staff in reviewing all bid package(s), making checks and cooperating with NDOT Project Manager to recommend selection of the lowest qualified bidder.

7.4 CONFORMED CONSTRUCTION DOCUMENTS

During the entire phase, the Consultant shall incorporate all supplemental notices and addenda information into the Construction Documents; and, between the date NDOT issues a Notice of Award of construction contract for the Project and the effective date of the Notice to Proceed, the Consultant shall provide updated construction documents that conform in every regard to the documents originally issued for bidding purposes plus all the information in all Project addenda (e.g., Conformed Contract Documents) and issue the Conformed Contract Documents to the successful bidder upon award of the contract.

7.5 PRE-CONSTRUCTION CONFERENCE

The Consultant Project Manager shall attend any Pre-construction Conference to answer the Contractor's questions regarding all elements of the design. The Consultant recognizes that formal Requests for Information (RFI's) or Requests for Clarification (RFC's) may result.

END OF EXHIBIT "A"

EXHIBIT "C"
REVISED PER AMENDMENT 1
PERFORMANCE SCHEDULE

ARTICLE 1: NOTICE TO PROCEED

1.1 The start date for the Consultant's scope of services shall be, without any further notice requirement, the date of this Agreement signed by the parties. The Consultant shall perform the services required as expeditiously as is consistent with professional skill and care and the orderly progress of the Project. The Scope of Service set forth in this Agreement and the compensation to the Consultant for said Scope of Services is based upon the Consultant and the City each performing its responsibilities in a timely manner.

1.2 *Performance Schedule.* The parties hereto have agreed to a general performance schedule (the "Performance Schedule") which is set forth herein. Subsequent to the execution of this Agreement, the Consultant shall furnish to the City's Representative for approval a more detailed schedule of performance (herein the "Detailed Performance Schedule").

1.3 *Revised Performance Schedule.* If the Consultant's performance is delayed or the sequence of tasks changed, the Consultant shall notify the City's Representative in writing of the reasons for the delay or the change. The Consultant shall then prepare a revised General and Detailed Performance Schedule for submission to and approval by the City's Representative.

ARTICLE 2: PERFORMANCE SCHEDULE

2.1 The maximum allowed time to complete each phase of the work is shown in the following table:

PHASE	CALENDAR DAYS TO COMPLETE	REMARKS
Kickoff Meeting	10	To be held within one week of NTP
Intermediate Design Submittal (60%)	90	90 days from NTP and the 30% Design Review Meeting
Intermediate Design Review Meeting	30	CLV and NDOT to have 30 days to review
PS&E Review Submittal (Pre-Final)	90	90 days from the review meeting
PS&E Design Review Meeting	60	CLV and NDOT to have 60 days to review
Final Submittal	30	30 days from the review meeting
Final Review Meeting	30	CLV and NDOT to have 30 days to review
Bid Documents	15	15 days from the review meeting
TOTAL CALENDAR DAYS TO COMPLETE:	355	

ARTICLE 3: DESIGN AND PERMITTING SCHEDULE DELAYS

3.1 The Consultant declares that they are experienced and knowledgeable with all governmental, agency, and utility company design approval processes, procedures, applications, fees, design standards, reviews, required corrective actions, and time schedules required for the Project, and that the schedule set forth for the Scope of Services is reasonable and achievable within these design approval parameters.

3.2 Although it is acknowledged that neither the City nor the Consultant have full control over these design approval processes, the Consultant shall be held accountable for any impacts to the City resulting from their actions or lack of actions, including but not limited to their failure to make timely submittals, their failure to routinely follow-up on submittals, their failure to notify the City of anticipated delays and required design changes, and their failure to process and re-submit comments and corrections received in a timely manner.

ARTICLE 4: CONSTRUCTION SCHEDULE CHANGES

4.1 It is understood and agreed by the Consultant that, although the time required to construct the Project has yet to be estimated as of the date of this Agreement, the Consultant is knowledgeable and experienced in determining the estimated construction time required to construct public works projects including this specific project type, and further that the Consultant has an advisory role in helping the City establish the construction term to be included in the construction contract, and therefore has the ability to determine the Consultant's lump sum fee for the Construction Phase scope of services regardless of how long it takes to construct the Project and that the Consultant assumes all risks for changes in his costs to perform the scope of services agreed to in this Agreement due to the length of time it takes to construct the Project.

4.1.1 No adjustments shall be made to the Post Construction Phase fee due to extended schedules.

END OF EXHIBIT "C"

EXHIBIT "D"
REVISED PER AMENDMENT 1
FEE BREAKDOWN

ARTICLE 1: COMPENSATION AND TERMS OF PAYMENT

1.1 *General.* At the time of approval of this Amendment by the City Council, the City agrees to set aside one million five hundred ninety nine thousand six hundred and fifty seven dollars (\$1,599,657) as the total appropriation for the performance of this Amendment. In no event shall the total payments to the Consultant for the services (basic and additional services) provided under this Agreement exceed the aforementioned amount appropriated without prior approval of the City.

1.2 *Compensation: Basic Services (Lump Sum by Task).* The City agrees to pay the lump sum amount attributable to each task and, if applicable, each subtask, set forth in Exhibit "A" which is completed by the Consultant. The Consultant agrees to complete each task and, if applicable, each subtask, for the amount of the lump sum set forth in Exhibit "D" regardless of the number of manhours which must be expended to complete the performance of this Agreement. The total payments to the Consultant for the completion of these tasks shall not exceed one million four hundred ninety nine thousand six hundred and fifty seven dollars (\$1,499,657) without prior written approval from the City. Such payment is based upon the individual lump sum amounts that are identified in Exhibit "D".

1.3 *Compensation: Additional Services.* For the additional services set forth in Exhibit "E," the City shall pay to the Consultant either a lump sum or an hourly fee based upon the hourly rates set forth in Exhibit "E" attached hereto, whichever is approved in writing by the City's Representative. Such payment shall not exceed one hundred thousand dollars (\$100,000) without the prior written approval of the City.

EXHIBIT D – BASIC SERVICES FEE BREAKDOWN

TASK	DESCRIPTION	Project Principal	Project Manager/Value Facilitator/Senior Planner	Senior Engineer II/RW Manager/Scheduler Estimator/Landscape Manager/Professional Surveyor	Senior Engineer I/Senior RW Agent/PLS Technician	Project Engineer II/Sr. Landscape Architect	Project Engineer I	Senior Technician/RW Agent	Technician/ Landscape Architect I	Clerical	Survey Crew	Hours Subtotal	Direct Expenses	Lump Sum Task Amounts
		\$80	\$65	\$55	\$45	\$35	\$27	\$38	\$22	\$25	\$65			
3.9.1A	Conceptual Design Development Design Workshops	18	150	94	80	236	150	0	0	0	0	728	\$0.00	\$96,810.00
4.2.1A	Roadway Alternative Geometric Evaluations	0	0	56	32	0	60	0	0	0	0	148	\$0.00	\$18,420.00
4.5.1A	Traffic Analysis	0	0	28	0	40	0	0	0	0	0	68	\$0.00	\$8,820.00
4.7.1.2A	Stakeholder Meetings for Aesthetic Treatments	0	30	20	0	0	18	0	0	0	0	68	\$0.00	\$10,608.00
		18	180	198	112	276	228	0	0	0	0	1,012	\$0.00	\$134,658.00
		\$1,440	\$11,700	\$10,890	\$5,040	\$9,660	\$6,156	\$0	\$0	\$0	\$0		\$0.00	\$134,658.00
5	Project Management													
5.1	Project Management	0	100	0	0	0	0	0	0	0	0	100	\$0.00	\$19,500.00
5.2	Design Meetings													
5.2.1	Kickoff Meeting	4	4	12	4	0	0	0	0	2	0	26	\$0.00	\$4,410.00
5.2.2	Design Review Meetings	0	12	0	24	0	0	0	0	24	0	60	\$0.00	\$7,380.00
5.2.3	Traffic Control											0	\$0.00	\$0.00
5.2.3.1	Local Coordination	0	0	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00
5.2.3.2	Intermediate TC Meeting	0	6	0	12	0	0	0	0	0	0	18	\$0.00	\$2,790.00
5.2.3.3	Plan Approval	0	4	0	6	0	0	0	0	0	0	10	\$0.00	\$1,590.00
5.2.4	Right of Way Setting											0	\$0.00	\$0.00
5.2.4.1	Right of Way Needs Assessment (Pre-Right of Way Setting)	2	6	0	16	0	8	0	0	4	0	36	\$0.00	\$4,758.00
5.2.4.2	Right of Way Setting	2	6	0	16	0	8	0	0	4	0	36	\$0.00	\$4,758.00
5.3	Field Reviews													
5.3.1	During Design	0	4	0	4	0	4	0	0	0	0	12	\$0.00	\$1,644.00
5.4	Construction Cost Estimates													
5.4.1	Developing and Maintaining Construction Cost Estimates	4	8	0	16	60	0	0	0	8	0	96	\$0.00	\$11,580.00

TASK	DESCRIPTION	Project Principal	Project Manager/Value Facilitator/Senior Planner	Senior Engineer II/RW Manager/Scheduler Estimator/Landscape Manager/Professional Surveyor	Senior Engineer I/Senior RW Agent/PLS Technician	Project Engineer II/Sr. Landscape Architect	Project Engineer I	Senior Technician/RW Agent	Technician/ Landscape Architect I	Clerical	Survey Crew	Hours Subtotal	Direct Expenses	Lump Sum Task Amounts
5.5	Schedules													
5.5.1	Developing & Maintaining Design Schedule	3	12	20	0	0	0	0	0	0	0	35	\$0.00	\$6,360.00
5.6	Progress Reports	0	0	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00
5.7	Project Coordination													
5.7.1	Project Status Meetings	12	80	112	40	40	0	0	0	16	0	300	\$0.00	\$47,760.00
5.7.2	Miscellaneous Meetings	4	16	0	0	8	0	0	0	0	0	28	\$0.00	\$4,920.00
5.7.3	Coordination with NDOT Divisions	4	16	0	0	8	0	0	0	2	0	30	\$0.00	\$5,070.00
5.7.4	Correspondence	0	0	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00
5.7.5	Project Management Plan	2	4	0	0	0	0	0	0	2	0	8	\$0.00	\$1,410.00
5.8	Quality Assurance and Quality Control													
5.8.1	Consultant Plan & Quality Reviews	12	24		120	60				12		228	\$0.00	\$30,960.00
5.8.2	Constructability Review and Construction Schedule	4	8	104		40				8		164	\$0.00	\$24,480.00
5.9	Public Relations													
5.9.1	Supplemental Public Outreach	0	0	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00
5.9.2	Interpretive Panel Design Workshop											0	\$0.00	\$0.00
5.9.2.1	Interpretive Panel Design	2	4	20	0	10	0	0	0	0	0	36	\$1,000.00	\$6,610.00
5.9.2.2	Council and Senator Briefing	1	4	16	0	8	0	0	0	0	0	29	\$800.00	\$5,300.00
5.9.2.3	Interpretive Panel Design Workshop	2	16	40	0	20	0	0	0	0	0	78	\$2,000.00	\$14,300.00
5.10	Project Closeout	0	16	0	0	24	0	0	0	24	0	64	\$0.00	\$7,440.00
5.11	Deliverables	0	0	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00
		58	350	324	258	278	20	0	0	106	0	1,394	\$3,800.00	\$213,020.00
		\$4,640	\$22,750	\$17,820	\$11,610	\$9,730	\$540	\$0	\$0	\$2,650	\$0		\$3,800.00	\$213,020.00
6	Final Design													
6.1	General Plan Sheets	0	8	0	40	0	24	0	0	0	0	72	\$0.00	\$8,904.00
6.2	Location/Survey											0	\$0.00	\$0.00
6.2.1	Field Survey	0	2	0	6	0	0	0	0	0	40	48	\$0.00	\$9,000.00
6.3	Roadway													
6.3.1	Final Design Plans	4	32	0	100	120	240	0	0	0	0	496	\$0.00	\$52,740.00

TASK	DESCRIPTION	Project Principal	Project Manager/ Value Facilitator/Senior Planner	Senior Engineer II/RW Estimator/Landscape Manager/Scheduler	Senior Engineer II/Senior RW Agent/PLS Technician	Project Engineer II/Sr. Landscape Architect	Project Engineer I	Senior Technician/RW Agent	Technician/ Landscape Architect I	Clerical	Survey Crew	Hours Subtotal	Direct Expenses	Lump Sum Task Amounts
6.4	Structural													
6.4.1	Final Bridge Design	0	528	0	1,088	900	667	0	999	63	0	4,245	\$0.00	\$469,026.00
6.4.2	Final Retaining Wall Design	0	76	0	157	130	96	0	144	9	0	612	\$0.00	\$67,620.00
6.4.3	Structural Design for Aesthetic Treatments	0	28	0	140	112	112	0	168	0	0	560	\$0.00	\$56,280.00
6.5	Drainage													
6.5.1	Final Drainage Report and Analysis	2	4	9	46	80	0	0	0	0	0	141	\$0.00	\$17,355.00
6.5.2	Drainage Plans	0	8	0	32	32	64	0	0	4	0	140	\$0.00	\$14,724.00
6.6	Traffic													
6.6.1	ITS	0	4	0	16	0	40	0	0	0	0	60	\$0.00	\$6,180.00
6.6.2	Signals	0	10	0	60	0	90	0	0	0	0	160	\$0.00	\$17,340.00
6.6.3	Lighting	0	12	0	24	16	60	0	0	0	0	112	\$17,000.00	\$29,120.00
6.6.4	Signing	0	0	0	20	0	60	0	0	0	0	80	\$0.00	\$7,560.00
6.6.5	Striping	0	0	0	32	8	80	0	0	0	0	120	\$0.00	\$11,640.00
6.6.6	Final Traffic Management Plan (TMP)	0	0	100	280	0	300	0	0	0	0	680	\$0.00	\$78,600.00
6.7	Aesthetics													
6.7.1	Preliminary Design Development and Public Involvement											0	\$0.00	\$0.00
6.7.1.1	Interpretive Design Development	0	40	60	0	60	0	0	80	0	0	240	\$7,500.00	\$36,780.00
6.7.2	Final Design Plans											0	\$0.00	\$0.00
6.7.2.1	Aesthetic Plans	0	80	160	0	220	0	0	240	0	0	700	\$20,000.00	\$100,940.00
6.7.2.2	Landscape Planting	0	0	20	0	20	0	0	40	0	0	80	\$0.00	\$8,040.00
6.7.2.3	Landscape Irrigation	0	0	10	0	20	0	0	20	0	0	50	\$0.00	\$5,070.00
6.7.2.4	Cost Estimates	0	0	20	0	40	0	0	40	0	0	100	\$0.00	\$10,140.00
6.8	Right-of-Way													
6.8.1	Utility Designating and Coordination	0	24	0	24	0	40	0	0	0	4	92	\$5,000.00	\$16,940.00
6.8.2	Right of Way Engineering	0	4	32	140	0	0	0	0	0	0	176	\$8,500.00	\$33,460.00
6.8.3	Utility Engineering	0	4	8	40	0	80	0	0	0	0	132	\$0.00	\$13,980.00
6.9	Materials													
6.9.1	Geotechnical	0	2	4	1	0	0	0	0	1	4	12	\$0.00	\$2,040.00
6.9.1.1	Report	0	0	0	0	0	0	0	0	0	0	0	\$52,950.00	\$52,950.00

TASK	DESCRIPTION	Project Principal	Project Manager/ Value Facilitator/Senior Planner	Senior Engineer II/RW Manager/Scheduler Estimator/Landscape Manager/Professional Surveyor	Senior Engineer II/Senior RW Agent/PLS Technician	Project Engineer II/Sr. Landscape Architect	Project Engineer I	Senior Technician/RW Agent	Technician/ Landscape Architect I	Clerical	Survey Crew	Hours Subtotal	Direct Expenses	Lump Sum Task Amounts
6.10	Specifications													
6.10.1	Notes to Specifications											0	\$0.00	\$0.00
6.10.1.1	Section 108.04 - Limitations of Operations	0	8	4	0	0	0	0	0	0	0	12	\$0.00	\$2,220.00
6.10.1.2	Special Write-ups/Bid Items	0	24	8	0	0	0	0	0	0	0	32	\$0.00	\$6,000.00
6.11	Deliverables	0	0	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00
		6	898	435	2,246	1,758	1,953	0	1,731	77	48	9,152	\$110,950.00	\$1,134,649.00
		480	\$58,370	\$23,925	\$101,070	\$61,530	\$52,731	\$0	\$38,082	\$1,925	\$3,120		\$110,950.00	\$1,134,649.00
7	Contract Administration Support													
7.1	Supplemental Notices	0	16	0	24	0	24	0	0	0	0	64	\$500.00	\$8,804.00
7.2	Pre-Bid Conference	1	4	0	0	0	0	0	0	0	0	5	\$0.00	\$1,020.00
7.3	Bid Analysis	0	8	0	16	0	0	0	0	0	0	24	\$0.00	\$3,720.00
7.4	Conformed Construction Documents	0	2	0	8	0	16	0	0	0	0	26	\$0.00	\$2,766.00
7.5	Pre-construction Conference	1	4	0	0	0	0	0	0	0	0	5	\$0.00	\$1,020.00
		2	34	0	48	0	40	0	0	0	0	124	\$500.00	\$17,330.00
		\$160	\$2,210	\$0	\$2,160	\$0	\$1,080	\$0	\$0	\$0	\$0		\$500.00	\$17,330.00
	Total Basic Services Hours	84	1,462	957	2,664	2,312	2,241	0	1,731	183	48	11,682		
	Total Basic Services Fee	\$6,720.00	\$95,030.00	\$52,635.00	\$119,880.00	\$80,920.00	\$60,507.00	\$0.00	\$38,082.00	\$4,575.00	\$3,120.00		\$115,250.00	\$1,499,657.00

EXHIBIT "E"

REVISED PER AMENDMENT 1 ADDITIONAL COMPENSATION

- 1.1 **Reimbursable Expenses.** Reimbursable Expenses are not allowed.
- 1.2 **Upon written authorization by the City, the Consultant shall provide Additional Services which may include the following:**
 - 1.2.1 **Addenda** – As required by the City, the Consultant shall assist the City with the preparation of contract addenda during the bid process.
 - 1.2.2 **Additional Design Services** – As required by the City, Consultant shall perform additional design services required for the Project.
 - 1.2.3 **Additional Topographic Survey** – As required by the City, Consultant shall obtain additional field measurements to supplement the original topographic mapping as requested by the client.
 - 1.2.4 **As-Builts** – As requested by the City, Consultant shall provide As-Builts.
 - 1.2.5 **Construction Assistance** – As required by the City, Consultant shall attend progress meetings during construction of the Project.
 - 1.2.6 **Drainage Study** – As required by the City, Consultant shall prepare a Drainage Study for the Project.
 - 1.2.7 **Hydrology and Hydraulics** – As required by the City, Consultant shall provide additional hydrology and hydraulics.
 - 1.2.8 **Master Plan Amendment** – As required by the City, Consultant shall revise and resubmit the Master Plan Amendment already performed by the City of Las Vegas.
 - 1.2.9 **Public Meetings** – As required by the City, Consultant shall attend and participate in public meetings.
 - 1.2.10 **Removal of Inflow/Infiltration Sources to Sanitary Sewer System** – As required by the City, Consultant shall provide design plans that redirect inflow/infiltration sources to the sanitary sewer to other authorized discharge systems.
 - 1.2.11 **Right-of-Way** – As required by the City, Consultant shall obtain title report and legal descriptions, prepare exhibits and write legal descriptions in locations where additional right-of-way or easements are required for the Project.
 - 1.2.12 **Sewer Design** – As required by the City, Consultant shall provide plan and profile design of new, reconstructed, or relocated sewer pipelines.
 - 1.2.13 **Storm Drain Retrofit Design** – As required by the City, Consultant shall provide in-situ retrofit design of existing storm drain pipes.
 - 1.2.14 **Structural** – As required by the City, Consultant shall provide additional structural design, including modifications to the proposed bridge types.
 - 1.2.15 **Structural Design** – As required by design should the alternatives selection require a retaining walls, drainage structure or other structural design on the project.
 - 1.2.16 **Structural Engineering** – The existing manholes and junction structures may need to be modified to provide access for the Contractor to rehabilitate the facilities. An allowance is provided to prepare the required structural modifications and/or new facilities to provide access.
 - 1.2.17 **Survey** – As required by the design, Consultant shall obtain additional survey in critical areas of design to supplement the aerial mapping provided with the basic services. In addition, Consultant shall obtain additional survey for additional utility potholing.
 - 1.2.18 **Title Reports** – As required by the City, Consultant shall prepare Title Reports as required for the Project.
 - 1.2.19 **Traffic Control Plans** – As required by the City, Consultant shall provide additional design and drawings for traffic control throughout the project limits.

- 1.2.20 **Utility Potholing** – As required by the City, Consultant shall provide additional utility potholing, prepare pothole location map and obtain information for subsurface utilities.
- 1.2.21 **Waterline Design** – As required by the City, Consultant shall provide plan and profile design of new, reconstructed, or relocated water pipelines.
- 1.2.22 **Aesthetic Design** – As required by the City, Consultant shall provide additional aesthetic design which may also include additional design alternatives for the interpretive panels.

EXHIBIT E – ADDITIONAL SERVICE FEE BREAKDOWN

TASK	DESCRIPTION	Project Principal	Project Manager/Value	Facilitator/Senior Planner	Senior Engineer II/RW Manager/Scheduler Estimator/Landscape Manager/Professional Surveyor	Senior Engineer I/Senior RW Agent/PLS Technician	Project Engineer II/Sr. Landscape Architect	Project Engineer I	Senior Technician/RW Agent	Technician/ Landscape Architect I	Clerical	Survey Crew	HOURS SUBTOTAL	Direct Expenses	Lump Sum Task Amounts
		\$80	\$65	\$55	\$45	\$35	\$27	\$38	\$22	\$25	\$65				
ADDITIONAL SERVICES															
1	Public Meetings		16		40		40						96	\$412.00	\$12,172.00
2	Additional Engineering Services		40		80		120						240	\$0.00	\$28,320.00
3	Aesthetic Design Services			40		60	40						140	\$0.00	\$16,140.00
4	Utility Relocation		16		40		40						96	\$0.00	\$11,760.00
5	Structural Design		40		80		120						240	\$0.00	\$28,320.00
6	Additional Bid Support Services		8		8		8						24	\$0.00	\$3,288.00
7													0	\$0.00	\$0.00
8													0	\$0.00	\$0.00
9													0	\$0.00	\$0.00
Total Additional Services - Hours															
		0	120	40	248	60	368	0	0	0	0	0	836		
Total Additional Services - Fee															
		\$0.00	\$7,800.00	\$2,200.00	\$11,160.00	\$2,100.00	\$9,936.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$412.00	\$100,000.00	

EXHIBIT "G"

1. Definitions

"City" means the City of Las Vegas.

"City Council" means the governing body of the City of Las Vegas.

"Contracting Entity" means the individual, partnership, or corporation seeking to enter into a contract or agreement with the City of Las Vegas.

"Principal" means, for each type of business organization, the following: (a) sole proprietorship – the owner of the business; (b) corporation – the directors and officers of the corporation; but not any branch managers of offices which are a part of the corporation; (c) partnership – the general partner and limited partners; (d) limited liability company – the managing member as well as all the other members.

2. Policy

In accordance with Resolution 79-99 and 105-99 adopted by the City Council, Contracting Entities seeking to enter into certain contracts or agreements with the City of Las Vegas must disclose information regarding ownership interests and principals. Such disclosure generally is required in conjunction with a Request for Proposals (RFP). In other cases, such disclosure must be made prior to the execution of a contract or agreement.

3. Instructions

The disclosure required by the Resolutions referenced above shall be made through the completion and execution of this Certificate. The Contracting Entity shall complete Block 1, Block 2, and Block 3. The Contracting Entity shall complete either Block 4 or its alternate in Block 5. Specific information, which must be provided, is highlighted. An Officer or other official authorized to contractually bind the Contracting Entity shall sign and date the Certificate, and such signing shall be notarized.

4. Incorporation

This Certificate shall be incorporated into the resulting contract or agreement, if any, between the City and the Contracting Entity. Upon execution of such contract or agreement, the Contracting Entity is under a continuing obligation to notify the City in writing of any material changes to the information in this Certificate. This notification shall be made within fifteen (15) days of the change. Failure to notify the City of any material change may result, at the option of the City, in a default termination (in whole or in part) of the contract or agreement, and/or a withholding of payments due the Contracting Entity.

Block 1 <u>Contracting Entity</u>
Post, Buckley, Schuh & Jernigan, Inc., d/b/a/ PBS&J Address 2270 Corporate Circle, Suite 100, Henderson, NV 89074 Telephone 702-263-7275 EIN or DUNS 58-0896138

Block 2 <u>Description</u>
Subject Matter of Contract/Agreement: Preliminary engineering requirement to design the reopening of F Street RFP #: Statement of Qualifications

Block 3 <u>Type of Business</u>
☐ Individual ☐ Partnership ☐ Limited Liability Company ☒ Corporation

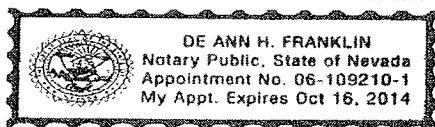
CERTIFICATE – DISCLOSURE OF OWNERSHIP/PRINCIPALS (CONTINUED)

Block 4 Disclosure of Ownership and Principals		
In the space below, the Contracting Entity must disclose all principals (including partners) of the Contracting Entity, as well as persons or entities holding more than one-percent (1%) ownership interest in the Contracting Entity.		
FULL NAME/TITLE	BUSINESS ADDRESS	BUSINESS PHONE
1. PBSJ Corporation* *Post, Buckley, Schuh & Jernigan, Inc., d/b/a PBS&J is a wholly owned subsidiary of The PBS&J Corporation, a Florida Corporation. All stock of The PBSJ Corporation is owned by employees. There is no shareholder with more than 4% ownership	5300 West Cypress Street , Tampa FL 33607	(813)282-7275

The Contracting Entity shall continue the above list on a sheet of paper entitled "Disclosure of Principals – Continuation" until full and complete disclosure is made. If continuation sheets are attached, please indicate the number of sheets: _____

Block 5 Disclosure of Ownership and Principals - Alternate
If the Contracting Entity, or its principals or partners, are required to provide disclosure (of persons or entities holding an ownership interest) under federal law (such as disclosure required by the Securities and Exchange Commission or the Employee Retirement Income Act), a copy of such disclosure may be attached to this Certificate in lieu of providing the information set forth in Block 4 above. A description of such disclosure documents must be included below.
Name of Attached Document: _____
Date of Attached Document: _____ Number of Pages: _____

I certify, under penalty of perjury, that all the information provided in this Certificate is current, complete, and accurate. I further certify that I am an individual authorized to contractually bind the above named Contracting Entity.



W. J. Franklin
Name
FEB 2, 2011
Date

Subscribed and sworn to before me this 2nd day of

February, 2011
De Ann H. Franklin
Notary Public