

ADDENDUM NO. 4

**Lone Pine Canyon Road
WORK ORDER: H14276
AREA: Wrightwood
ROAD NO.: 504150 020**

BIDS OPEN 10:00 AM, THURSDAY, MAY 14, 2020

By Email via ePro System

Amend the Special Provisions as follows:

1. Replace 10-1.14 "EARTHWORK" with the following:

10-1.14 EARTHWORK

Earthwork shall conform to the provisions in Section 19, "Earthwork," of the Standard Specifications and these special provisions.

The second paragraph of Section 19-5.03B, "Relative Compaction (95 percent)," of the Standard Specifications is superseded by the following:

In addition, relative compaction of not less than 90 percent shall be obtained for the layer between 0.5 feet to 1.5 feet below the grading plane for the width of the pavement in excavation and relative compaction of not less than 90 percent shall be obtained throughout embankment.

Excavation and embankment shall be measured to the grading plane and shall not include excavation quantities covered by other bid items including asphalt removal and concrete removal. The pay quantity for **Roadway Excavation** shall be determined from the calculated quantity of subgrade material to the grading plane only. The bid quantity is an estimate only. No additional payment will be made for any swellage or other potential change in the quantity of subgrade material that is removed or added.

Other than Lone Pine Canyon Road, additional earthwork and grading at street intersections and all access maintenance roads, as shown on the plan, shall be the responsibility of the Contractor. Payment for such work shall be considered as included in the price paid per cubic yard for **Roadway Excavation** and no additional compensation will be allowed therefore.

Prior to placing embankment material, the existing ground to receive it shall be scarified to a minimum depth of 1-foot and compacted to a relative compaction of not less than 90 percent. Scarifying existing ground shall be considered as included in the price paid per cubic yard for **Roadway Excavation** and no additional compensation will be allowed therefore.

Local Borrow will be measured and paid for by the cubic yard and the quantity to be paid for will be computed in the following manner:

The total quantity of embankment will be computed by the method specified for roadway excavation in Section 19-2.08, "Measurement," of the Standard Specifications on the basis of the planned or authorized cross-section for embankments as shown on the plans and the measured ground surface.

The quantities of roadway excavation used in the embankment will be adjusted by multiplying by a specified grading factor of 0.8. No further adjustment will be made in the event that the specified grading factor does not equal the actual grading factor.

The quantity of local borrow to be paid for will be that quantity remaining after deducting the adjusted quantities of excavation from the total embankment quantity.

Any work done to obtain the compaction requirements for the area or the areas below the grading plane, per Section 19-5.03B "Relative Compaction (95 percent)," of the Standard Specifications, shall be the responsibility of the Contractor, and payment for such shall be considered as included in the contract price paid per cubic yard for **Roadway Excavation** and no additional compensation will be allowed therefore.

Surplus excavated material shall become the property of the Contractor and shall be disposed of outside the highway right of way in accordance with the provisions in Section 14-10, "Solid Waste Disposal and Recycling" and Section 14-11, "Hazardous Waste and Contamination" of the Standard Specifications.

Attention is directed to Section "**Remove Asphalt Concrete Surfacing**" of these special provisions.

The contract unit price paid per cubic yard for **Roadway Excavation** shall include full compensation for furnishing all labor, materials, tools, equipment and hauling the excavated materials outside the highway right-of-way, and incidentals, and for doing all the work involved in performing roadway excavation work completely as shown on the plans, and as specified in these specifications and the special provisions, and as directed by the Engineer.

ARCH CULVERT EARTHWORK

Excavation and backfill shall conform to the provisions in Section 19-3, "Structure Excavation and Backfill", of the Standard Specifications and these Special Provisions.

Excavations for temporary cuts (over-excavation) to accommodate arch culvert construction, shall be made in accordance with the plans and as directed by the Engineer.

The material used for the 95 percent relative compaction structure backfill shall be native soil. Structure backfill shall be placed per section 19-3 of the Standard Specifications.

Backfill material shall be placed in uniform layers and shall be brought up uniformly on all sides of the structures. The gradation and distribution of materials through the compacted backfill shall be such that the backfill is free from lenses, pockets, streaks, and layers of material differing substantially in texture or gradation from surrounding materials. The thickness of each layer of backfill shall not exceed eight inches (8") in height before compaction. Compaction of the structure backfill shall be accomplished by hand-operated or heavy construction equipment, depending on the area to be filled. The ENGINEER, or his authorized representative shall determine which method shall be used. Heavy construction equipment shall not be operated within five feet (5') of concrete walls.

Structure backfill shall be moisture conditioned to between its optimum moisture content and two percent (2%) above its optimum moisture content, and compacted to a dry density of not less than ninety-five percent (95%) of its maximum laboratory dry density as measured by California Test CT-231 (Nuclear Gauge). Structure backfill shall not be placed until the structure has been inspected by the Engineer or his authorized representative, and approved for backfilling. No backfill material shall be deposited against the back of the concrete retaining wall until the concrete has developed strength not less than required by these Special Provisions.

Culvert excavation shall be at least 2 feet below the footing elevation, and 4 feet laterally from the outside line of the footing, in accordance with the geotechnical report.

Structure backfill (95% compaction) shall be in accordance with the arch culvert manufacturer's or supplier's recommendations, but shall not be less than the following: 2 foot depth under the footings, 4 foot at culvert sides, over the top to a level 2 feet above the crown of the arch.

Full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in arch culvert earthwork, including excavation and over excavation, structure fill (95% compaction), and backfill (90% compaction), as shown on the plans and specified in these Special Provisions, shall be considered as included in the lump sum price paid for "**Construct and Install 48' span by 13'-13/8" Clear Rise Arch Culvert with Headwall**" and no additional compensation will be allowed therefor.

CHANNEL EARTHWORK

Where channel fill would be placed against an existing embankment surface, the existing embankment shall be excavated to provide for benching as set forth in the Geotechnical Report and shown in the typical channel sections.

Channel fill shall be compacted to 90% relative compaction.

Structure backfill (95% compaction) shall be placed one foot behind and under the concreted rock slope protection and the concreted rock grade control structures.

Channel fill placed within 5 feet from the surface of channel side slopes and fill placed within one foot of the invert surface shall not include oversize material. Oversize material is material with a nominal dimension of 6 inches or more. This requirement does not apply to the grading plane under concreted rock slope protection and grade control structures. Oversize material which is not suitable for use in 1/4-Ton Class concreted rock slope protection and grade control structures shall be exported from the site.

Surplus excavated material shall become the property of the Contractor and shall be disposed of outside the highway right of way in accordance with the provisions in Section 14-10, "Solid Waste Disposal and Recycling" and Section 14-11, "Hazardous Waste and Contamination" of the Standard Specifications.

Cost for Local Borrow needed for channel earthwork is paid separately.

Full compensation for all channel excavation, including for benching as recommended in Geotechnical Report, except as described elsewhere, shall be considered as included in the contract price paid per cubic yard for "**Channel Excavation**" and no separate payment will be made therefor.

2. **Replace 10-1.21 "CONCRETED ROCK SLOPE PROTECTION (CRSP)" with the following:**

10-1.21 CONCRETED ROCK SLOPE PROTECTION (CRSP)

Concreted Rock Slope Protection (1/4 Ton and 4 Ton CRSP) shall conform to the provisions in Section 72-3, "Concreted-Rock Slope Protection", of the Standard Specifications and these Special Provisions, except that the rock need not meet quality requirements shown in Section 72-5.02, "Materials", of the Standard Specifications.

On-site rocks may be used, provided specified grading is attained.

Filter Blanket: The Filter Blanket shall be 12" thick using Backing Class 1. Placement of the filter blanket shall be done immediately after slope preparation. For granular filters, the stone shall be spread in a uniform layer to the specified depth as shown on the plan. **Cost for the materials and placement of Filter Blanket shall be considered as included in the contract price paid per cubic yard for Concreted Rock Slope Protection (1/4-Ton Class, Method A Placement).**

Rocks for **Concrete Slope Protection** shall be 1/4-Ton Class, Method A placement. The concrete penetration shall be full depth. Concreted-Rock Slope Protection (CRSP) varied in thickness as 3 ft. and 3.3 ft., respectively, shall be constructed **with 12" Filter Blanket** as shown on the plan and typical section, at the following location as follows:

- a) **Downstream (D/S):** Meeting existing at Sta. 10+30 to Sta. 11+24 with a uniform thickness of 3.3 ft. (Note: Sta. 11+00 to Sta. 11+24 CRSP is built above the concreted rock apron and rest on a compacted backfill material);
- b) **Upstream (U/S):** Starting at Sta. 12+20 to Sta. 13+05.35 meeting existing with a uniform thickness of 3.3 ft. (Note: Sta. 12+20 to Sta. 12+41.88 CRSP is built above the concrete apron invert slab and rest on a compacted backfill material similar downstream);
- c) **Upstream (U/S):** Starting at Sta. 12+69.48 to Sta. 13+05.35 meeting existing with a trapezoidal measurements of 50.6' (base 1), 52.5' (base 2), 40.4' (width), 3' thick;

Rocks for **Cut-Off Walls** shall be 1/4-Ton Class, Method A placement. The concrete penetration shall be full depth. Concreted Cut-Off Walls shall be constructed **without Filter Blanket**, as shown on the plan and profile, at the following locations, as follows:

- a) **Downstream (D/S):** At Sta. 11+00 with a measurement of 4' thick, 9' deep, 105.2' length;

- b) **Upstream (U/S):** At Sta. 12+41.88 with a measurement of 3' thick, 15.1' deep, 95.4' length;

Rocks for **Apron** shall be 4-Ton Class, Method A placement, and located at the Downstream (D/S) as shown on the plan. The concrete penetration shall be full depth. Concreted Apron shall be constructed **without Filter Blanket**.

In the mountain and desert areas where freezing/thawing are seasonal, the concrete shall be air-entrained as provided in Section 90-1.02E(3), "Air-Entraining Admixtures," of the Standard Specifications. The air content after mixing and prior to placing shall be no more than 5.5 percent and no less than 4.0 percent.

Full compensation for conforming to the requirements of this section including furnishing all labor, materials (**including concrete and rock**), equipment, tools and incidentals, and for doing all work involved in constructing the concreted rock slope protection, excavation, backfill including filter blanket, complete in place, as shown on the plans, and as specified in the Standard Specifications, these Special Provisions shall be considered as included in the contract price paid per cubic yard for **Concreted Rock Slope Protection (1/4-Ton Class, Method A Placement); Concreted Cut-Off Walls (1/4-Ton Class, Method A Placement); and Concreted Apron (4-Ton Class, Method A Placement)** and no separate payment will be made therefor.

3. **Replace 10-1.25 "CHAIN LINK FENCE" with the following:**

10-1.25 CHAIN LINK FENCE

Chain Link Fence shall be Type CL-10 and shall conform to the provisions in Section 80-3, "Chain Link Fences," of the Standard Specifications.

The shape of all line, end, latch and corner posts, top rail and braces shall be round. Top rail shall be provided. See Chain Link Fence Details per revised plan (Sheet No. 3 of 8) and Revised Standard Plan RSP A85 (modified) for all joint or connection details.

The exact location for constructing chain link fence shall be determined by the Engineer.

Full compensation for furnishing all labor, materials, equipment, tools and incidentals, and for doing all work involved installing the chain link fence, concrete footing, brackets and other appurtenances, complete in place, shall be considered as included in the contract price per linear foot paid for Chain Link Fence (Type CL-10) and no additional compensation will be allowed therefor.

4. **Replace 10-1.31 "HABITAT RESTORATION FINISH GRADING" with the following:**

10-1.31 HABITAT RESTORATION PLAN

This work shall consist of placing stockpiled existing and original topsoil of 6-12 inches within the vegetated areas. Stockpiled topsoil shall be spread at location or areas identified on the Habitat Restoration Plan as provided and directed by County EMD Ecologist during construction with the approval of the Engineer.

Prior to any preliminary and final grading work, Contractor shall coordinate with County EMD Ecologist to ensure that the environmental conditions for habitat restoration are fully complied with as stipulated under section, "Environmental Mitigation Measures", elsewhere in these Special Provisions which read as follows:

Following final grading, approximately 300 LF upstream of Lone Pine Canyon Road and about 200 LF downstream of the road approximately (0.5 acres) may have some areas recontoured in preparation for a restoration project. County restoration staff will recommend to the Contractor any recontouring deemed necessary to ensure successful plantings and water percolation. Any needed recontouring work by the Contractor may be paid for on a time and materials basis.

Nothing in these Special Provisions relieve the Contractor of his responsibilities in complying with the requirements for habitat restoration.

The contract Force Account price paid for **Habitat Restoration Plan** shall include furnishing all labor, materials, tools, equipment, by hand and incidentals, including backfill topsoil and for doing all the work involved for habitat restoration, complete in place, from stockpiling, spreading and any necessary recontouring to final grading as directed by County Ecologist with the approval of the Engineer, as specified in the Standard Specifications and these Special Provisions.

5. Replace 10-1.40 "ENVIRONMENTAL MITIGATION MEASURES" with the following:

10-1.40 ENVIRONMENTAL MITIGATION MEASURES

This work shall consist of furnishing all labor, materials, tools, equipment and incidentals; and performing all work necessary to comply with existing laws, codes, regulations, and/or permits related to Environmental Mitigation Measures and these special provisions. Contractor shall comply with the requirements of the permits from the Department of Fish and Wildlife, the State Water Resources Control Board and the Corps of Engineers found elsewhere in these special provisions.

Environmental Mitigation Measures must comply with section 5-1.20B "Permits, Licenses Agreements and Certifications," section 14-10, "Solid Waste Disposal and Recycling" and section 14-11, "Hazardous Waste and Contamination" of the Standard Specifications.

The Contractor shall comply with the following mitigation measures:

ENVIRONMENTAL CONDITIONS

Access and Staging

Access for construction will be primarily along the alignment of the channel adjacent to Lone Pine Canyon Road and along Lone Pine Canyon Road. There are +/- 20-foot wide access roads located on either bank of the channel that the County currently uses for channel maintenance activities.

If needed, haul routes for export of material would be along the channel access road downstream of the project site, from Lone Pine Canyon Road to State Route 2. Alternatively, Lone Pine Canyon Road eastward from the project site may be used as a haul route.

Materials and equipment staging will occur at established locations along the maintenance access roads, including areas of the channel north and south of Lone Pine Canyon Road.

Aesthetics

Vegetation and tree removal associated with construction and staging areas will be minimized to the fullest extent possible. All areas cleared of vegetation for temporary construction areas and access will be revegetated at the completion of the project. County is currently in the process of removing 9 pine trees, 1 Live Oak, and multiple shrubs within the project area.

Air Quality

All clearing and grading will be carried out with dust control measures adequate to prevent creation of a nuisance to persons or public or private property. The proposed project is required to comply with Mojave Desert Air Quality Management District (MDAQMD) Rule 403.2, Fugitive Dust Control for the Mojave Desert Planning Area, which requires implementation of feasible measures to reduce and control fugitive dust emissions, including, but not limited to, watering on site, using soil stabilizers, utilizing wheel washers for existing vehicles, and reducing vehicle speeds.

Use of enhanced fugitive emissions control procedures will be used, these may include: street sweeping along site access roadways to remove any "track-out" materials by construction vehicles or dried mud carried off by trucks moving dirt or bringing construction materials; limiting idling time to five minutes for trucks and heavy equipment; requiring use of properly maintained and tuned equipment in accordance with manufacturer's specifications; terminating soil disturbance when winds exceed 25 miles per hour or during smog alerts.

Biological Resources

A qualified biologist(s) will be procured by the County. The designated biologist has the authority to stop any Project activities immediately if State listed Species of Special Concern or threatened or endangered species is found within the work area and notify CDFW staff.

A Worker Awareness Training Program (WEAP) will be implemented onsite by a qualified County biologist or designated representative. Training will be provided to employees onsite, and will go over discuss jurisdictional resources, nesting birds, plants, wildlife resources, spill prevention and containment, jurisdictional resources, designated work areas, and penalties for regulatory permit violations. The WEAP will be repeated annually for the incumbent employees and administered within a week of arrival of new personnel.

Vegetation clearing should be conducted outside of nesting bird season (approx. February 1 through August 31). If vegetation clearing must occur during the bird nesting season, it will be completed in accordance with the County's Nesting Bird Plan (NBP), submitted to CDFW on December 30, 2018. The NBP will be implemented by a qualified biologist procured by the County of San Bernardino. The NBP will include but not be limited to, a pre-construction nesting survey to be conducted within the proposed project area and in adjacent open areas to determine the presence of nesting birds. The last survey day is to be conducted within three days prior to start of work. If active nests are found, the qualified biologist procured by the County shall determine an appropriately sized buffer around the nest in which no work will be allowed until the young have successfully fledged. The size of the nest buffer will be determined by the biologist in consultation with the California Department of Fish and Game, and would be based largely on the nesting species and its sensitivity to disturbance. Documentation of surveys and findings shall be submitted to CDFW for review prior to conducting the Project. If there are negative survey results for nesting birds, construction can take place during nesting season. For more information on the NBP, refer to SAA Permit #1600-2018-0148-R6.

Prior to the start of construction, including vegetation removal, the boundaries of approved construction zones shall be delineated with temporary flagging by County staff, and jurisdictional federal and state regulatory agency limits will be delineated by a County biologist or representative. No construction activities, vehicular access, equipment storage, stockpiling, or significant human intrusion will occur outside of the designated construction area.

A qualified biologist procured by the County will monitor ground disturbing activities, including clearing and grubbing, within jurisdictional areas.

Removal of mature trees and vegetation associated with construction and staging areas will be minimized to the fullest extent possible. Ground disturbing activities, including grubbing and clearing of vegetation, shall be monitored by a County biologist or procured biologist. Intentional killing or collection of either plants or wildlife at construction sites is prohibited.

Non-native vegetation shall be removed from the work area.

A focused botanical survey shall be conducted for special interest plant species during the appropriate flowering periods (late spring to summer) prior to the start of construction, and if species are found and if possible, individuals will be flagged and avoided. As an alternative, plants will be salvaged and replanted at an off-site mitigation area where practicable.

All pipes/construction materials will be visually checked for the presence of wildlife sheltering within them prior to construction activities. At the end of each workday, an escape ramp shall be placed at the end of each open trench to allow any animals that may have become entrapped in the trench to climb out overnight. The ramp may be constructed of dirt fill or work planking or other suitable materials.

Following construction, approximately 300 LF upstream of Lone Pine Canyon Rd. and about 200 LF downstream of the road (approximately 0.5 acres) may have to have some areas recontoured in preparation for a restoration project. County restoration staff will recommend to the contractor any recontouring deemed necessary to ensure successful plantings and water percolation. Any needed recontouring work by the contractor may be paid for on a time and materials basis.

Existing 6-12 inches of top soil within vegetated areas shall be stockpiled and spread in areas used during restoration. **The cost for placing stockpiled existing and original topsoil of 6-12 inches within the vegetated areas shall be as considered in the contract Force Account payment price paid for Habitat Restoration Plan.**

Attention is directed to section, Habitat Restoration Plan, elsewhere in these Special Provisions.

Cultural Resources

While no cultural resources are anticipated to be found within the project area, as standard procedure, the County will consult with a qualified archaeologist in the event that buried cultural deposits are encountered during any phase of construction. In the event of the discovery of buried cultural resources, project activities in the vicinity of the resources will be temporarily halted, and a qualified archaeologist will be consulted to assess the significance of the resource and to provide proper management recommendations.

The discovery of human remains is always a possibility during ground disturbances; State of California Health and Safety Code Section 7050.5 addresses these possible findings. In accordance with standard procedures upon discovering human remains, the County would halt disturbance until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. If the human remains are determined to be prehistoric, the coroner will notify the Native American Historic Commission, which shall take appropriate actions relative to notifying descendants and potential removal and nondestructive analysis of human remains.

Hazards and Hazardous Materials

Standard BMPs will be implemented to prevent impacts to the public through the transport, use, or disposal of any hazardous materials. The county and/or representative construction contractor shall consider protection methods as determined necessary to protect existing septic systems located in close proximity to the proposed grading/excavation areas.

Hydrology/Water Quality

A Storm Water Pollution Prevention Plan (SWPPP) will be prepared for the project and a County-approved SWPPP draft will be provided by the County for the Contractor to complete. Compliance with the state Construction General Permit (CGP) as part of the NPDES program is required. The SWPPP will provide detailed descriptions of water quality management measures to be used. Construction BMPs will include the installation of temporary erosion control features designed to prevent erosion and siltation into sensitive habitats and natural drainages outside designated disturbance limits. Erosion control features will be free of nonnative plant materials and fiber rolls or erosion control mesh shall be made of loose-weavemesh not fused at the intersections of the weave, such as jute, coconut fiber or other products without welded weaves. BMPs should also prevent the transfer and spread of invasive species. Potential pollutant discharges include products of erosion, construction waste materials, dewatering waste, waste earthen materials from work within surface waters, and small amounts of petroleum products. Material staging area shall be clearly delineated in order to keep equipment and trucks within existing disturbed areas.

A Water Diversion Plan must be prepared and submitted to the County for review and approval 50 days prior to the start of activities if it is anticipated that work will be done during periods of flowing water. The County is subsequently required to submit the Plan to the respective State permitting agencies. The Plan shall include a detailed description of how the Permittee plans to manage water onsite during construction and include drawings of the proposed diversion structures and

time frames of when water diversion will take place. The Plan shall include drawings of the proposed diversion structures as well as time frames of when the water diversion will take place.

Work in Wet Weather – Construction activities shall cease and all necessary erosion control measures implemented prior to the onset of precipitation as identified in the SWPPP and CDFW Streambed Alteration Agreement No 1600-2018-0148-R6. After any storm events, sites shall be inspected and corrective action for erosion and sedimentation shall be taken as needed. National Weather Service 72-hour weather forecasts shall be reviewed prior to the start of any phase of the Project that may result in sediment runoff to the stream and construction plans adjusted to meet this requirement. The National Weather Service forecast can be found at www.nwd.noaa.gov.

Noise

Construction activities will be limited to daytime hours and will conform to local noise standards per San Bernardino County Development Code. Grading and construction activities will be limited to the hours between 7:00 a.m. and 7:00 p.m., except Sundays and Federal holidays. Noise levels will be restricted to the periods and days permitted by the local noise or other applicable ordinance, unless special circumstances warrant work beyond these hours or noise limits.

Traffic/Circulation

In accordance with County regulations and the Caltrans WATCH Manual which is compliant with the California Manual on Uniform Traffic Control Devices, a Traffic Control Plan would be prepared that would include use of barriers, guards, lights, signs, and watch persons, during construction to promote traffic safety and convenience. Project ingress and egress routes will be designated, and vehicle traffic outside these routes will not be allowed. Vehicular traffic will adhere to a speed limit of 15 miles per hour during construction.

Public Services

The County will notify the San Bernardino County Fire Department and other law enforcement and emergency services personnel of construction activities that affect fire, police and emergency services. Public service agencies shall be notified of the roadway construction schedule and available street detours throughout the construction period.

Utilities and Service Public Services

The County will notify and coordinate with all utility providers that own easements, rights-of-way, or facilities within or adjacent to the area affected by the proposed project. Any need to connect with or relocate utilities will be presented to the appropriate utility provider prior to commencement of construction. Standard conditions, including the requirement for the County to coordinate with Golden State Water Company, SoCalGas, and the San Bernardino County Fire department for planning and construction of the proposed project, would ensure that impacts to the water supply and other utilities are minimized during construction. There will some utility water and gas line temporary relocation within Sheep Creek, upstream of Lone Pine Canyon Road prior to construction. Prior to construction completion, water and gas lines will be required to be permanently relocated along Lone Pine Canyon Road. Some coordination between contractor and utility providers will be required.

Post-Project Reporting

The County's State regulatory permits require that the County submit post-construction reports to State resource agencies within 30 days of project completion. Information will be required by Contractor for the County to meet compliance requirements. This information will include completion date, BMPs employed, CY of material removed from the site, and possibly additional information as required by State regulatory personnel.

Full compensation for conforming to the requirements of this section, not otherwise provided for, including furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved shall be considered as included in the contract prices paid for the various items of work and no additional compensation will be allowed therefore.

6. Replace Bid Sheet P-3 and P-4 with the attached revised sheets.

Amend the Project Drawings as follows:

1. Replace Plan Sheets 4 of 9

Provide the Revise Cross Sections for Sheep Creek.

Provide Answers to the attached list of bidder's questions.

The addition of these requirements shall be considered in concert with existing documents in preparation of bids. **THE BIDDER'S CERTIFICATION FOR THIS ADDENDUM NO. 4 SHALL BE SIGNED BY THE SAME PERSON WHO SIGNS THE PROPOSAL AND SHALL BE SUBMITTED WITH THE PROPOSAL. ANY proposal not accompanied by a signed BIDDER'S CERTIFICATION (below) acknowledging receipt of this Addendum No. 4 will NOT be accepted.**

BRENDON BIGGS, Interim Director
Department of Public Works

By: 

Andy Silao, P.E., Chief
Contracts Division

AS:mb

BIDDER'S CERTIFICATION:

By my signature hereunder, I acknowledge receipt of Addendum No. 4 and I fully understand the intent and detail of Addendum No. 4, which I have considered in my preparation of the attached proposal.

Bidder's Signature

Date

Note: The page containing the executed BIDDER'S CERTIFICATION (just this page), must be included with the proposal.

Bidder: _____

Project: *Lone Pine Canyon Road Culvert*

W.O.#: *H14276*

Limits: *Desert View Dr. to 66 Feet West Summit Dr.*

Item No.	Approx. Quant.	Meas. Unit	Item Description	Unit Price	Total
1	50,000	F.A.	Supplemental Work (Unforeseen Differing Site Conditions and Utility Conflicts)	\$ 1.00	\$ 50,000.00
2	1	L.S.	Prepare Final Storm Water Pollution Prevention Plan (SWPPP)	\$	\$
3	1	L.S.	Water Pollution Control Work	\$	\$
4	1	L.S.	Diversion and Control of Water / Dewatering	\$	\$
5	1	L.S.	Trench / Excavation Safety	\$	\$
6	1	L.S.	Mobilization	\$	\$
7	1	L.S.	Develop Water Supply	\$	\$
8	1	L.S.	Traffic Control System	\$	\$
9	1	L.S.	Field Office Facility	\$	\$
10	1	L.S.	Fire Plan	\$	\$
11	955	C.Y.	Roadway Excavation	\$	\$
12	11,400	C.Y.	Channel Excavation	\$	\$
13	215	C.Y.	Class 2 Aggregate Base	\$	\$
14	450	TON	Asphalt Concrete (Type A)	\$	\$
15	65	S.Y.	Place Asphalt Concrete (Miscellaneous Area)	\$	\$
16	100	S.Y.	Cold Plane Asphalt Concrete Pavement	\$	\$
17	1	L.S.	Construct and Install 48' span x 13'-1 3/8" rise x 96' long Pre-Cast Arched Culvert, Headwall, Headwall Counter Fort, Wingwall and Wingwall Anchor (Type D)	\$	\$
18	20	C.Y.	Minor Concrete Overside Drain	\$	\$
19	420	C.Y.	Class 1 Concrete (Invert Slab, Apron Slab and Cut-Off Wall)	\$	\$
20	340	C.Y.	Class 2 Concrete (Arched Culvert Stepped Footing, Headwall Footing and Wingwall footing)	\$	\$
21	1,750	C.Y.	Concreted Rock Slope Protection (1/4 Ton Class, Method A Placement)	\$	\$
22	430	C.Y.	Concreted Cut-Off walls (1/4-Ton Class, Method A Placement)	\$	\$
23	650	C.Y.	Concreted Apron (4-Ton Class, Method A Placement)	\$	\$
24	260	L.F.	Chain Link FenceType (CL-10)	\$	\$
25	5	E.A.	Metal Pipe Swing Gate	\$	\$
26	5	E.A.	Paint Metal Pipe Swing Gate	\$	\$
27	1	L.S.	Remove Existing 10'x5' Box Culvert, Wingwalls, Cut -Off Walls, Steel Grates, Grouted Rocks Cut Off Wall, And Grouted Rocks	\$	\$

Bidder: _____

Project: ***Lone Pine Canyon Road Culvert***

W.O.#: ***H14276***

Limits: ***Desert View Dr. to 66 Feet West Summit Dr.***

Item No.	Approx. Quant.	Meas. Unit	Item Description	Unit Price	Total
28	870	S.Y.	Remove Asphalt Concrete Surfacing	\$	\$
29	1	L.S.	Clearing and Grubbing	\$	\$
30	300	SY	Remove Concrete Pavement	\$	\$
31	2	EA.	Remove Roadside Sign	\$	\$
32	7	EA.	Remove and Relocate Sign	\$	\$
33	25,000	F.A.	Habitat Restoration Plan	\$ 1.00	\$ 25,000.00
34	5	E.A.	Remove Existing Pipe Gate	\$	\$
35	86	L.F.	Metal Beam Guard Railing	\$	\$
36	4	EA.	Terminal System (RSI FLEAT TERMINAL)	\$	\$
37	12	EA.	Guard Railing (Class 1- Type E) Delineator	\$	\$
38	2	E.A.	Portable Changeable Message Sign	\$	\$
39	3	E.A.	Roadside Sign (Metal)	\$	\$
40	2	EA.	Reset Roadside Sign	\$	\$
41	1,750	L.F.	Paint Traffic Stripe (2-Coat)	\$	\$
42	17	S.F.	Paint Pavement Marking (2-Coat)	\$	\$
43	1	L.S.	Finishing Roadway	\$	\$
44	3,400	C.Y.	Local Borrow	\$	\$

PROJECT TOTAL: \$

LONE PINE CANYON ROAD

CONTRACTOR Q AND A:		
#	QUESTION	COUNTY RESPONSE
1	A pre-bid meeting is listed as non-mandatory, but considering the Covid 19 outbreak and the County's current closure to the public, I respectfully request an alternate remote meeting platform is considered.	The posting on epro has been updated to match the listing in the actual bid documents. The non-mandatory pre-bid meeting will be held on-site in open air with ample room for social distancing. The primary purpose of the pre-bid is to ensure adequate access to bidders to review the site conditions. Any flyers handed out onsite along with the sign-in sheet will be posted within one week of the meeting, and any discussions on site will be unofficial until asked and answered thru epro.
2	Will the list of companies who have acknowledged download of these plans be available?	The list of bidders acknowledging download of the plans (plan holders list) will be provided as an addendum thru Epro along with the pre-bid sign-in sheet within one week of the pre-bid meeting.
3	Plan Sheet CT1 references a Ninyo & Moore foundation report and supplemental letter, and page SP-79 of the Special Provisions mentions a Geotechnical Report and Supplemental Geotechnical Recommendations letter found elsewhere in these Special Provisions. Where are those items located in the SPs?	The geotechnical report, and supplemental letters have been provided in addendum 1.
4	How much is the engineer's estimate for the project?	The Departments policy is we do not provide Engineer's Estimates.
5	Please provide the Geotechnical Report referenced in Section 10-1.14 of the bid specifications.	The geotechnical report, and supplemental letters have been provided in addendum 1.
6	Detail 1 on Sheet CT4 indicates a Detail 1A on Sheet CT5 that does not exist. A mechanical connection between the precast arch and the foundation is shown on Sheet CT4. Is that a project condition or a detail specific to the Contech arch design?	Detail 1a is located on sheet CT4, which is provided with addendum 1. This detail is specific to the design provided, alternative designs would have to address the channel slope as appropriate.
7	Please provide the structure calculations for the precast arch structure, headwalls, wingwalls and foundations so an equivalent design can be provided	Structural calculations have been provided in addendum 1.
8	The Arch culvert foundation plan (Sheet CT3) references a Detail on Sheet CT4A that is not included in the project documents. Please provide this plan or step detail for the footing.	CT4A is provided in addendum 1.
9	Where is the vegetation control (.5' thk) to be paid?	The vegetation control is included under the payment for Metal Beam Guardrail, see Section 10-1.33.
10	Are the access roads to receive Aggregate Base?	No, access roads are to be graded native material.
11	Please review and confirm the section of the slope in front of the Wingwalls from Sta. 12+20 to 12+41.88. Is this section to be concrete or RSP?	At Sta. 12+20 to 12+41.88 (and similar for the outlet section) the invert slab is to extend to the retaining wing walls, then backfilled to the appropriate contours and covered with concreted rock slope protection, following the details and appropriate profile of the adjacent rock slope protection
12	Please provide details for the 1' concrete apron on the upstream side of the bridge.	The apron is 1 ft. thick with trapezoidal dimensions of 95.40 ft. (base) x 48 ft. (base) and 22 ft. (height) per Sheet 4. For reinforcement, use details on Sheet CT4, Detail 1/CT4 and Section C/CT3.
13	There are existing power poles shown on the plans that appear to interfere with Access Roads #1 and #2. Are the poles and the power lines on both sides of the street to be relocated prior to construction?	It is anticipated that all conflicting utilities will be relocated as shown in the special provisions.

LONE PINE CANYON ROAD

14	The stations shown on the "Typical Channel Section" on plan sheet 3 of 8 do not match the limits of the rock slope protection shown on plan sheet 4 of 8. Please clarify which information is correct.	A revised sheet 3 for a updated section eliminating the conflicting information will be uploaded in a subsequent addendum.
15	There appears to be significant discrepancies in the bid quantities for items #19 and #20.	Attached to Addendum #2 is a revised bid sheet.
16	Please provide clarification of the limits of earthwork paid under bid item #12, "Channel Excavation" and the earthwork paid under bid item #17, "Construct Arch Culvert"?	<ul style="list-style-type: none"> •Channel Excavation: Any earthwork excavated from the finished grade to where it daylights between the edges of the access roads or hinge point facing the channel. •Roadway Excavation: Any earthwork excavated outside channel excavation. Earthwork along Lone Pine Canyon Road includes outside the boundary for the channel excavation. •Construct Arch Culvert: All earthwork involving excavation for its culvert footings, wingwalls, cut-off walls including structural excavation, backfill, structural backfill and any excavation or earthwork outside pay items for Concrete Structures classified as Class 1 and 2 are paid under Section 10-1.19 "Construct and Install 48' span by 13'-1 3/8" clear rise x 96' long Pre-cast Arch Culvert, Headwall, Headwall Counter fort, Wingwall and Wingwall Anchor (Type D)."
17	Our takeoffs indicate a substantial amount less for Items 19-23. Please review.	Attached to Addendum #2 is a revised bid sheet.
18	Please consider the attached precast arch option as a substitute to the precast arch shown on the plans.	Alternate designs will be subject to a submittal and approval process during construction, similar to a lump-sum design build option, subject to the requirements and criteria provided in the specifications, plans, and applicable design codes.
21	Please provide log of borings for the project.	The geotechnical report, and supplemental letters have been provided in addendum 1.
22	SP-20/21 provides work windows for utility companies to perform relocations. Is the time that is provided in this section in addition to the 60 working days for the project?	The stated windows are included in the overall number of working days. It is considered that providing a window to the utility does not prevent all work across the jobsite to continue, but only requires that the utility be provided the access and required space to complete their work.
23	SP-63/64 states that the contractor is permitted to close the road for the duration of the project. Additionally, it states that the contractor shall provide two 11-foot paved lanes for use by public traffic overnight or when construction operations are not actively in progress. Please review and clarify the intent of these two statements.	The statement to provide open lanes states that open lanes may be required, at the engineers discretion, after the completion of culvert and road construction. The intention is to allow traffic to pass if the road construction is complete, and minor construction such as finish grading or erosion prevention is being completed away from the roadway.
24	Please provide Original Ground contours or digital file for an accurate earthwork takeoff. There isn't enough information on the plans to perform an accurate calculation.	The Original Ground Contours are included in the grading plan and cross sections provided in addendum 2.
25	Is the 1' Filter Material accounted for in the Engineer's Quantity for Bid Item # 21? The cross sections that were provided in Addendum 2 show this section (Note 30) to be 3.3' thick.	See revised section 10-1.21, "Concreted Rock Slope Protection"; and revised cross section sheet. The cost for the materials and placement of 12" thk Filter Blanket is included in the contract price paid per cubic yard for CRSP (1/4-Ton Class, Method A Placement).
26	In the 4th paragraph of Special Provisions Section 10-1.21, the dimensions given for the cut off wall at Sta 13+05.35 are 2'x28'x40.5'x3'. Please clarify what these four dimensions represent (4 lengths cannot be multiplied together to get volume).	See subsection (c) paragraph 4 of the revised section 10-1.21, "Concreted Rock Slope Protection".
27	Please provide the dimensions for the cut off wall at Sta 11+00.	See subsection (a) paragraph 4 of the revised section 10-1.21, "Concreted Rock Slope Protection".
28	In the last paragraph of Special Provisions Page SP-104, it states "The contract price paid per cubic yard of Stockpile 12? Top Soil"? There is no bid item for this work.	See revised section 10-1.31, "Habitat Restoration Plan". Compensation clause paid in Force Account covers stockpiling, spreading, necessary recontouring, etc. See also revised P-4 Bid Sheet.

LONE PINE CANYON ROAD

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17	Our takeoffs indicate a substantial amount less for Items 19-23. Please review.	Attached to Addendum #2 is a revised bid sheet.
29	For bid item #21, Concreted Rock Slope Protection, does the bid quantity include the 1' thick filter layer under the 3.3' 1/4 ton rip rap?	See Answer # 25.
30	Please advise which bid item the backfill within the channel is paid for.	Various CRSP, Concreted Cut-Off walls, Pre-cast Arched Culvert. See revised section 10-1.21, "Concreted Rock Slope Protection".
31	Please advise which bid item the fill within the roadway (not within the excavation for the new bridge) is paid for.	See revised section, "Earthwork" related to Local Borrow. See also revised Bid Sheets P-3 & P-4.
32	Please advise which bid item the cut and fill for the access roads is paid for.	See revised section, "Earthwork" related to Roadway Excavation and Local Borrow. See also revised Bid Sheets P-3 & P-4.
33	In Special Provision Section 10-1.21, it states that concrete for CRSP shall be air-entrained. Does this requirement apply to all concrete on the project, or just the CRSP?	Review Special Provisions section 10-1.20, Paragraph 12 and section 10-1.19, paragraph 13.
34	Who are the approved equivalent vendors for the concrete Arch?	See response under item # 18.
35	Please provide the specifications for patching the precast components for the wing walls, head walls, and bridge.	Please refer to section 10-1.19, "Concrete Arch Culvert" specifically under JOINT (Page SP-86); and Waterproofing/Joint Protection and Subsurface Drainage (SP-88). For Details, refer to Structural Plans CT2 for Wingwall Joints; CT5 & CT6 for Upstream/Downstream Headwall Joint Detail; CT7 for Typical Joint Seal Detail; and CT8 for Miscellaneous Joint Details.