EL PASO COUNTY
UTE PASS REGIONAL TRAIL PHASE II

The Standard Specifications for Construction of this Project shall consist of the applicable sections and subsections or the 2025 "Colorado Department of Transportation Standard Specifications for Road and Bridge Construction".

The following Project Special Provisions take precedence over Specifications or Plans and supplement or amend the referenced "Standard Specifications for Road and Bridge Construction" adopted in 2025 by the Colorado Department of Transportation, which is to be used to control construction of this Project.

The Pikes Peak Region Asphalt Paving Specifications shall control construction of HMA.
https://assets-publicworks.elpasoco.com/wp-content/uploads/Documents/Pikes-Peak-Region-Asphalt-Paving-Specs-Version-6-March-2022.pdf
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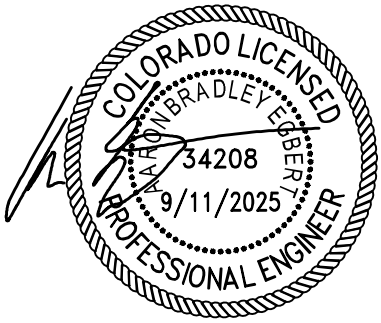
PROJECT SPECIAL PROVISIONS



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[For 2025 Spec Book]

EL PASO COUNTY
UTE PASS REGIONAL TRAIL PHASE II

COLORADO
DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISIONS

STANDARD SPECIAL PROVISIONS

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COMMENCEMENT AND COMPLETION OF WORK

Section 108 of the Standard Specifications is hereby revised for this project as follows:

Subsection 108.03 shall include the following:

Salient features for this project are:

(1) Mobilization
(2) Utility Relocations
(3) Pavement Removal
(4) Hot Mix Asphalt
(5) Concrete
(6) Sidewalk
(7) Retaining Walls
(8) Curb and Gutter

REVISION OF SECTION 102
BIDDING REQUIREMENTS AND CONDITIONS

Section 102 of the Standard Specifications is hereby revised for this project as follows:

Subsection 102.05 shall include the following:

El Paso County will provide the following electronic files in .PDF format, online at the designated internet bid advertisement site, and they will be considered as the official bid set and record set.

- Project Plans and Specifications
- Drainage Memo
- Geotechnical Report

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REVISION OF SECTION 107
PERFORMANCE OF SAFETY CRITICAL WORK

Section 107 of the Standard Specifications is hereby revised as follows:

Add subsection 107.061 immediately following subsection 107.06 as follows:

107.061 Performance of Safety Critical Work. The following work elements are considered safety critical work for this project:

(1) Work requiring adjacent to active roadway
(2) Temporary works: excavation adjacent to roadways and/or infrastructure.

The Contractor shall submit, for record purposes only, an initial detailed construction plan that addresses safe construction of each of the safety critical elements. The detailed construction plan shall be submitted two weeks prior to the safety critical element conference described below. The construction plan shall be stamped "Approved for Construction" and signed by the Contractor. The construction plan will not be approved by the Engineer.

The Construction Plan shall include the following:

(a) Safety Critical Element for which the plan is being prepared and submitted.

(b) Contractor or subcontractor responsible for the plan preparation and the work.

(c) Schedule, procedures, equipment, and sequence of operations, which comply with the working hour limitations

(d) Temporary works required: safety fencing, falsework, bracing, shoring, etc.

(e) Additional actions that will be taken to ensure that the work will be performed safely.

(f) Names and qualifications of workers who will be in responsible charge of the work:
  (1) Years of experience performing similar work
  (2) Training taken in performing similar work
  (3) Certifications earned in performing similar work

(g) Names and qualifications of workers operating cranes or other lifting equipment
  (1) Years of experience performing similar work
  (2) Training taken in performing similar work
  (3) Certifications earned in performing similar work

(h) The construction plan shall address how the Contractor will handle contingencies such as:
  (1) Unplanned events (storms, traffic accidents, etc.)
  (2) Structural elements that don't fit or line up
  (3) Work that cannot be completed in time for the roadway to be reopened to traffic
  (4) Replacement of workers who don't perform the work safely
  (5) Equipment failure
  (6) Other potential difficulties inherent in the type of work being performed
  (7) Special Events

(i) Name and qualifications of Contractor's person designated to determine and notify the Engineer in writing when it is safe to open a route to traffic after it has been closed for safety critical work.

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REVISION OF SECTION 107
PERFORMANCE OF SAFETY CRITICAL WORK

A safety critical element conference shall be held two weeks prior to beginning construction on each safety critical element. The Engineer, the Contractor, the safety critical element subcontractors, and the Contractor's Engineer shall attend the conference.

After the safety critical element conference, and prior to beginning work on the safety critical element, the Contractor shall submit a final construction plan to the Engineer for record purposes only. The final construction plan shall be stamped "Approved for Construction" and signed by the Contractor.

The Contractor shall perform safety critical work only when the Engineer is on the project site. The Contractor's Engineer shall be on site to inspect and provide written approval of safety critical work for which he provided stamped construction details. Unless otherwise directed or approved, the Contractor's Engineer need not be on site during the actual performance of safety critical work, but shall be present to conduct inspection for written approval of the safety critical work.

When ordered by the Engineer, the Contractor shall immediately stop safety critical work that is being performed in an unsafe manner or will result in an unsafe situation for the traveling public. Prior to stopping work, the Contractor shall make the situation safe for work stoppage. The Contractor shall submit an acceptable plan to correct the unsafe process before the Engineer will authorize resumption of the work.

When ordered by the Engineer, the Contractor shall remove workers from the project that are performing the safety critical work in a manner that creates an unsafe situation for the public in accordance with subsection 108.05.

Should an unplanned event occur or the safety critical operation deviate from the submitted plan, the Contractor shall immediately cease operations on the safety critical element, except for performing any work necessary to ensure worksite safety, and provide proper protection of the work and the traveling public. If the Contractor intends to modify the submitted plan, he shall submit a revised plan to the Engineer prior to resuming operations.

All costs associated with the preparation and implementation of each safety critical element construction plan will not be measured and paid for separately, but shall be included in the work. Temporary shoring, if required, shall be included in the cost of Removal of Structure.

Nothing in the section shall be construed to relieve the Contractor from ultimate liability for unsafe or negligent acts or to be a waiver of the Colorado Governmental Immunity Act on behalf of the Department.

Subsection 107.12 shall include the following:

The Contractor shall protect private property, existing signs and structures, retaining walls and minimizes disturbance of vegetation and slopes beyond the cut/fill limits shown on the plans. Land monuments and property marks shall not be disturbed or moved until their location has been witnessed or referenced in accordance with Section 629 and their removal approved.

Subsection 107.2 shall include the following:

The contractor shall limit construction activities to those areas within the limits of disturbance and/or toes of slope shown on the plans. Any disturbance beyond these limits shall be restored to original conditions by the contractor at his/her own expense. Construction activities, in addition to normal construction procedures shall include, but not limited to parking of vehicles or equipment, disposal of litter and other action which would alter the existing conditions.

REVISION OF SECTION 201
CLEARING AND GRUBBING

Section 201 of the Standard Specifications is hereby revised for this project as follows: In Subsection 201.02 delete the second paragraph and replace with the following:

The Contractor will establish construction limits in accordance with County requirements. Clearing and grubbing shall be within the limits of the project, as directed by the Engineer. Trees smaller than 6” in diameter will not be paid for separately but shall be included in the price of the work.

In Subsection 201.02 delete the sixth paragraph and replace with the following:

No material or debris shall be disposed of within the project limits. Removal of waste materials and unsuitable or excess topsoil shall be legally disposed of. The Contractor shall make all arrangements to obtain written permission from property owners for disposal locations outside the limits of the project. Copies of this written agreement shall be furnished to the Engineer before the disposal area is used.

Subsection 201.02 shall include the following:

Buried perishable objects shall be removed to a depth of 3 feet below the existing ground or subgrade, whichever is lower.

REVISION OF SECTION 202
REMOVAL OF STRUCTURES AND OBSTRUCTIONS

Section 202 of the Standard Specifications is hereby revised for this project as follows:

Subsection 202.01 shall include the following:

This work includes removal and disposal of exiting asphalt mat within the project limits as shown on the plans or at locations directed by the Engineer.

Sawcutting required to set a straight edge to form the curb and gutter is incidental to the scope of and shall not be paid for separately.

In Subsection 202.02, delete the 7th paragraph and replace with the following:

The existing asphalt mat which varies in thickness and location shall be removed in a manner that minimizes contamination of the removed mat with underlying material. The removed mat shall become the property of the Contractor and shall be either disposed of outside the project site, or used in one or more of the following ways:

- Used in embankment construction in accordance with subsection 203.06.
- Placed in bottom of fills as approved by the Engineer.
- Placed in subgrade soft spots as directed by the Engineer.
- Or in a manner approved by the engineer – Pre-approval is required prior to placement, otherwise material will be removed at no additional cost to the project

Subsection 202.12 shall include the following:

The removal of asphalt mat will be measured in square yards of pavement removed, regardless of depth and location. The cutting of asphalt mat to a neat line where removal of asphalt mat will abut a new pavement will not be paid for separately but shall be included in the work. The Contractor shall perform necessary investigations required to determine the thickness and location of existing asphalt pavements designated for removal.

Subsection 202.12 shall include the following:

Payment will be made under:

Pay Item	**Pay Unit**
Removal of Asphalt Mat	Square Yard

The disposal of the asphalt mat or its use in other locations on the project will not be measured and paid for separately, but shall be included in the work.

REVISION OF SECTION 202
REMOVAL AND TRIMMING OF TREES

Section 202 of the Standard Specifications is hereby revised for this project as follows: Subsection 202.02 shall

include the following:

This work includes the removal and the trimming of trees as directed by the Engineer. This work includes the preservation from injury or defacement of all vegetation and objects designated to remain.

The Engineer will establish environmental limits. All trees, shrubs, plants, grasses, and other vegetative materials shall remain, except as designated by the Engineer.

Prior to beginning any construction, removal, trimming, and pruning of encroaching vegetation (as determined by the Engineer) shall be completed.

Once all directed clearing, trimming, and pruning is completed and accepted, no additional clearing, trimming, cutting, or pruning will be allowed unless approved, in writing, by the Engineer.

This work shall be done by a Contractor or subcontractor who is a qualified tree surgeon and a member of the National Arborist Association. The firm's or individual's name and qualifications shall be submitted at the preconstruction conference for the Engineer's approval. A list of references and other clients shall be included with the qualifications statement. A written description of work methods and time schedules shall be submitted and approved in writing by the Engineer prior to work commencing.

Access for the removal or pruning of trees will be extremely limited. Trees shall be felled at the risk of the Contractor. Strict limits of disturbance will be defined and shall be adhered to. Branches on trees or shrubs shall be removed as directed by the Engineer. All trimming shall be done by skilled workmen. All work shall be done according to the following requirements:

(1) Pruning shall be done with proper, sharp, clean tools in such a manner as to preserve the natural character of the tree.

(2) All final cuts shall leave no projections on or off the branch and shall not be cut so close as to eliminate the branch collar.

(3) To avoid bark stripping, all branches 2 inches in diameter and larger shall be cut using the 3-cut method. These branches shall be lowered to the ground by proper ropes.

(4) Tools used on trees known or found to be diseased, shall be disinfected with alcohol before they are used on other trees.

(5) Structural weaknesses, decayed trunk or branches, or split crotches shall be reported to the Engineer.

(6) When cutting back or topping trees, the Contractor shall use the drop-crotch method and avoid cutting back to small suckers. Smaller limbs and twigs shall be removed in such a manner so as to leave the foliage pattern evenly distributed.

(7) When reducing size (cut back or topping) not more than one-third of the total area shall be reduced at a single operation.

(8) Climbing spikes shall not be used on trees not scheduled for removal.

REVISION OF SECTION 202
REMOVAL AND TRIMMING OF TREES

All brush, branches, limbs, and foliage smaller than 3 inches in diameter shall be chipped into mulch and stockpiled at a designated site. The trunks and limbs 3 inches and larger shall be cut into less than 6 foot lengths and hauled to a designated site. Stumps shall be left no higher than 2 feet above the ground surface and shall not be removed when within the areas to be excavated. When trees being cut off are outside the excavation limits, the stumps shall be cut so that no more than 3 inches remains above the ground surface. Stump grinding is not required in any circumstances.

Subsection 202. 12 shall include the following:

Trimming, chipping, stockpiling mulch, and hauling and stockpiling trunks and limbs will not be paid for separately but shall be included in the work. Removal of trees less than 3 inches in trunk diameter, measured at a height of 4 feet above ground, will not be paid for separately but shall be included as a part of the Clearing and Grubbing work. Trimming of tree limbs less than 3 inches in diameter will not be paid for separately but shall be included as a part of the Clearing and Grubbing work

All clearing and grubbing directed by the Engineer will be paid for as lump sum under the clearing and grubbing item

Payment will be made under:

Pay Item	**Pay Unit**
Removal of Tree	Each

The disposal of trees outside the project limits will not be measured and paid for separately but shall be included in the work.

REVISION OF SECTION 203
EXCAVATION AND EMBANKMENT

Section 203 of the Standard Specifications is hereby revised for this project as follows:

Subsection 203.03 (a), first paragraph, after the second sentence add the following:

Embankment material shall have a resistance value of at least 20 when tested by the Hveem Stabilometer. The contractor is responsible to test and justify the use of in-situ soils elsewhere on the project.

Subsection 203.06 shall include the following:

The backfill shall be placed in 8 to 12 inch lifts with moisture and density control in accordance with the requirements of CDOT Standard Specification 203.07 Construction of Embankment and Treatment of Cut Areas with Moisture and Density Control.

REVISION OF SECTION 209
WATERING AND DUST PALLIATIVES

Section 209 of the Standard Specifications is hereby revised for this project as follows:

Subsection 209.05 shall include the following:

Application of dust palliative may be required when work is in progress and not in progress, including weekends, holidays, and nighttime.

Delete subsections 209.07 and 209.08 and replace with the following:

All labor, equipment, materials and all other work required for dust palliatives shall not be measured and paid for separately but shall be included in Section 203, Excavation and Embankment.

REVISION OF SECTION 212
SEEDING, FERTILIZER, SOIL CONDITIONER, AND SODDING

Section 212 of the Standard Specifications is hereby revised for this project as follows:

Subsection 212.02 shall include the following:

The Contractor shall seed all disturbed areas, including along trail edges, and rake seed into soil. Contractor shall use the Foothills Native seed mix, or provide a seed mix to the Engineer for approval prior to placement of the seed. The seed mix application rate is 25 pounds per acre (0.0052 lbs/sy) for all disturbed areas.

Foothills Native Mix 25 lbs/ac (0.0052 lbs/sy)	
5%	Indian Ricegrass
5%	Little Bluestem
5%	Blue Grama
10%	Switchgrass
10%	Rocky Mountain Fescue
5%	Sideoats Grama
5%	Beardless Wheatgrass
10%	Big Bluestem
10%	Sandberg Bluegrass
10%	Slender Wheatgrass
10%	Thickspike/Streambank/Western
5%	Sand Dropseed
10%	Yellow Indiangrass

REVISION OF SECTION 216
SOIL RETENTION COVERING

Section 216 of the Standard Specifications is hereby revised for this project as follows:

Subsection 216.01 shall include the following:

Soil Retention Blanket (Class 1) and Turf Reinforcement Mat (Class 1) shall be required on all slopes greater than 3:1 (H:V) as indicated on the plans or as directed by County Engineering.

REVISION OF SECTION 240
PROTECTION OF MIGRATORY BIRDS
BIOLOGICAL WORK PERFORMED BY THE CONTRACTOR'S BIOLOGIST

Add Section 240 to the Standard Specifications for this project as follows:

Description

240.01 This work consists of protecting migratory birds during construction.

Materials and Construction Requirements

240.02 The Contractor shall schedule clearing and grubbing operations and work on structures to avoid taking (pursue, hunt, take, capture, or kill; attempt to take, capture, kill or possess) migratory birds protected by the Migratory Bird Treaty Act (MBTA). The Contractor shall retain a qualified wildlife biologist for this project. The wildlife biologist shall have a minimum of three years' experience conducting migratory bird surveys and implementing the requirements of the MBTA. The Contractor shall submit documentation of the biologist's education and experience to the Engineer for acceptance. A biologist with less experience may be used by the Contractor subject to the approval of the Engineer based on review of the biologist's qualifications.

The wildlife biologist shall record the location of each protected nest, bird species, the protection method used, and the date installed. A copy of these records shall be submitted to the Engineer.

(a) Vegetation Removal. When possible, vegetation shall be cleared before the time when active nests are present. Vegetation removal activities shall be timed to avoid the migratory bird breeding season which begins on April 1 and runs to August 31. All areas scheduled for clearing and grubbing between April 1 and August 31 shall first be surveyed within the work limits for active migratory bird nests. The Contractor's wildlife biologist shall also survey for active migratory bird nests within 50 feet outside work limits. Contractor personnel shall enter areas outside CDOT right of way only if a written, signed document granting permission to enter the property has been obtained from the property owner. The Contractor shall document all denials of permission to enter property. The Contractor shall avoid all active migratory bird nests. The Contractor shall avoid the area within 50 feet of the active nests or the area within the distance recommended by the biologist until all nests within that area have become inactive. Inactive nest removal and other necessary measures shall be incorporated into the work as follows:

1. Tree and Shrub Removal or Trimming. Tree and shrub removal or trimming shall occur before April 1 or after August 31 if possible. If tree and shrub removal or trimming will occur between April 1 and August 31, a survey for active nests shall be conducted by the wildlife biologist within the seven days immediately before the beginning of work in each area of tree and shrub removal or trimming. The survey shall be conducted for each phase of tree and shrub removal or trimming.

   If an active nest containing eggs or young birds is found, the tree or shrub containing the active nest shall remain undisturbed and protected until the nest becomes inactive. The nest shall be protected by placing fence (plastic) a minimum distance of 50 feet from each nest to be undisturbed. This buffer dimension may be changed if determined appropriate by the wildlife biologist and approved by the Engineer. Work shall not proceed within the fenced buffer area until the young have fledged or the nests have become inactive.

   If the fence is knocked down or destroyed by the Contractor, the Engineer will suspend the work, wholly or in part, until the fence is satisfactorily repaired at the Contractor's expense. Time lost due to such suspension will not be considered a basis for adjustment of time charges but will be charged as contract time.

2. Grasses and Other Vegetation Management. Due to the potential for encountering ground nesting birds' habitat, if work occurs between April 1 and August 31, the area shall be surveyed by a wildlife biologist within the seven days immediately before ground disturbing activities.

   The undisturbed ground cover to 50 feet beyond the planned disturbance, or to the right of way line, whichever is less, shall be maintained at a height of 6 inches or less beginning April 1 and continuing until August 31 or until the end of ground disturbance work, whichever comes first.

   If birds establish a nest within the survey area, an appropriate buffer of 50 feet will be established around the nest by the CDOT biologist. This buffer dimension may be changed if determined appropriate by the CDOT biologist and approved by the Engineer. The Contractor shall install fence (plastic) at the perimeter of the buffer. Work shall not proceed within the buffer until the young have fledged or the nests have become inactive.

If the fence is knocked down or destroyed by the Contractor, the Engineer will suspend the work, wholly or in part, until the fence is satisfactorily repaired at the Contractor's expense. Time lost due to such suspension will not be considered a basis for adjustment of time charges but will be charged as contract time.

(b) Work on structures. The Contractor shall prosecute work on structures in a manner that does not result in a taking of migratory birds protected by the Migratory Bird Treaty Act (MBTA). The Contractor shall not prosecute the work on structures during the primary breeding season, April 1 through August 31, unless he takes the following actions:

1. The Contractor shall remove existing nests before April 1. If the Contract is not awarded before to April 1 and CDOT has removed existing nests, then the monitoring of nest building shall become the Contractor's responsibility upon Notice to Proceed.

2. During the time that the birds are trying to build or occupy their nests, between April 1 and August 31, the Contractor shall monitor the structures at least once every three days for any nesting activity.

3. If the birds have started to build any nests, they shall be removed before the nest is completed. Water shall not be used to remove the nests if nests are located within 50 feet of any surface waters.

4. Installation of netting may be used to prevent nest building. The netting shall be monitored and repaired or replaced as needed. Netting shall consist of a mesh with openings that are ¾ inch by ¾ inch or less.

   If an active nest become established, i.e., there are eggs or young in the nest, all work that could result in abandonment or destruction of the nest shall be avoided until the young have fledged or the nest is unoccupied as determined by the wildlife biologist and approved by the Engineer. The Contractor shall prevent construction activity from displacing birds after they have laid their eggs and before the young have fledged.

   If the project continues into the following spring, this cycle shall be repeated. When work on the structure is complete, the Contractor shall remove and properly dispose of netting used on the structure.

(c) Taking of a Migratory Bird. The taking of a migratory bird shall be reported to the Engineer. The Contractor shall be responsible for all penalties levied by the U. S. Fish and Wildlife Service (USFWS) for the taking of a migratory bird.

Method of Measurement

240.03 Wildlife Biologist will be measured by the actual authorized number of hours a wildlife biologist is on site performing the required tasks.

Removal of nests will be measured by the actual number of man-hours spent removing inactive nests just before and during the breeding season, April 1 through August 31. During this period, the Contractor shall submit to the Engineer each week for approval a list of the workers who removed nests and the number of hours each one spent removing nests.

Netting will be measured by the square yard of material placed to keep birds from nesting on the structure. Square yards will be calculated using the length of netting measured where it is attached to the ground and the average height of the netting where it is attached to the structure.

Basis of Payment

240.04 The accepted quantities measured as provided above will be paid for at the contract unit price for each of the pay items listed below that appear in the bid schedule.

Payment will be made under:

Pay Item	**Pay Unit**
Wildlife Biologist	Hour
Removal of Nests	Hour

Pay Item	Pay Unit
Netting	Square Yard

Payment for Wildlife Biologist will be full compensation for all work and materials required to complete the item, including wildlife biologist, wildlife survey, and documentation (record of nest location and protection method)

Payment for Removal of Nests will be full compensation for all work and material required to complete the work.

Payment for netting will be full compensation for all work and material required to complete the item. Overlaps of netting will not be measured and paid for separately but shall be included in the work. Maintenance and replacement, removal, and disposal of netting will not be measured and paid for separately but shall be included in the work.

Clearing and grubbing will be measured and paid for per Section 201. Mowing will not be measured and paid for separately but shall be included in the work.

Removal and trimming of trees will be measured and paid for per Section 202.

Fence (Plastic) will be measured and paid for per Section 607

REVISION OF SECTION 403
HOT MIX ASPHALT

Section 403 of the Standard Specifications is hereby revised for this project as follows:

Delete subsection 403.05 and replace with the following:

403.05 The accepted quantities of hot mix asphalt (patching)(asphalt) will be paid for in accordance with subsection 401.22, at the contract unit price per ton for the bituminous mixture.

Payment will be made under:

Pay Item	**Pay Unit**
Hot Mix Asphalt (Patching)(Asphalt)	Ton

Aggregate, asphalt recycling agent, additives, hydrated lime, and all other work necessary to complete each hot mix asphalt item will not be paid for separately, but shall be included in the unit price bid. When the pay item includes the PG binder grade, the asphalt cement will not be measured and paid for separately, but shall be included in the work. When the pay item does not include the PG binder grade, asphalt cement will be measured and paid for in accordance with Section 411. Asphalt cement used in Hot Mix Asphalt (Patching) will not be measured and paid for separately, but shall be included in the work.

Asphalt shall be (Grading SX)(75)(PG 58-28).

Assumed 6” of existing Asphalt depth, if greater match existing section.

Keep existing asphalt shoulders where possible and use the sawcut as the concrete gutter edge form.

Sawcutting (full depth), excavation, preparation, and tack coat of areas to be removed and/or patched will not be measured and paid for separately, but shall be included in the work.

REVISION OF SECTION 411
ASPHALT MATERIALS

Section 411 of the Standard Specifications is hereby revised for this project as follows:

Subsection 411.02 shall include the following:

All asphalt binders used for hot mix asphalt shall meet the requirements outlined in the Pikes Peak Region Asphalt Paving Specifications, Version 6. All hot mix asphalt will be placed, tested, and paid for in accordance with the most current version of Pikes Peak Region Asphalt Paving Specifications, Version 6. Description, materials, construction requirements, method of measurement, and basis of payment for asphalt materials shall conform to Pikes Peak Region Asphalt Paving Specifications, Version 6.

REVISION OF SECTION 504
PRECAST MODULAR BLOCK GRAVITY RETAINING WALL

Section 504 of the Standard Specifications is hereby revised for this project to include the following:

DESCRIPTION

504.01 This work includes furnishing all materials and labor required for the design and construction of a precast concrete modular block retaining wall without geosynthetic reinforcement. The work shall consist of furnishing materials, labor, equipment and supervision for the construction of a precast modular block retaining wall structure in accordance with the requirements of this Section and in acceptable conformity with the lines, grades, design and dimensions shown in the project site plans.

MATERIALS

504.02 Shop Drawings. The Contractor shall submit one electronic submittal of shop drawings and certified material test reports for review prior to construction of the wall. See subsection 504.07 for a complete list of submittal requirements. Shop drawings shall be submitted in accordance with subsection 105.02.

The shop drawings shall provide the details necessary to demonstrate compliance with the Contract, including:

(a) *Wall Layouts*. Wall layouts shall conform to the lines and grades on the plans including start, corner, and end stations, leveling pad step breaks, total number of blocks and top and bottom of wall elevations. For walls with rail anchoring slabs, the top of block elevations or the cast in place leveling course shall be within 2 inches of the elevation shown on the plans measured from the bottom of the anchoring slab. The construction batter required to achieve the batter shown on the plans shall be shown on the shop drawings. If temporary walls are required for the construction of permanent walls, the permanent wall vendor shall provide the shop drawings and certified material test reports for temporary walls.

(b) *Wall Elevations*. Except for the top of the leveling pad, wall elevations given on the plans are based on an arbitrary block height. The actual elevations shall be marked on the shop drawings by taking into account the supplied block height and shimming material. External Stability (bearing pressure, sliding and overturning) and global stability shall already be checked by the design Engineer of record from the retaining wall manufacturer.

(c) *Design Heights.* Unless otherwise defined on the plans, the wall design height shall be measured vertically from the top of the leveling pad to the top of the concrete rail anchoring slab for walls with railing, or to the top of the cast-in-place concrete coping for walls without railing.

(d) *Calculations.* Design calculations shall be provided showing that the internal stability of the wall meets the requirement specified in AASHTO LRFD Bridge Design Specifications, 8th Edition.

(e) *Table of Quantities*. A table comparing the Structural Backfill (Class 1), Geotextile, and Block Facing quantities shown on the plans to the quantities shown in the shop drawings and percent difference (positive percent indicates an increase in shop drawing quantities from the plans) shall be shown on the shop drawings. Structure Backfill (Class 1), Geotextile, and Block Facing quantities shall be calculated in accordance with the Contract. The Contractor shall notify the Engineer of the difference in plan and shop drawing quantities before wall construction begins.

(f) *Placement Schedule*. Geotextile placement schedule shall be shown.

(g) *Vertical Slip Joints*. Locations of stack bond blocks with vertical slip joints for differential settlement relief shall be as specified in subsection 504.14.

REVISION OF SECTION 504
PRECAST MODULAR BLOCK GRAVITY RETAINING WALL

504.03 Backfill. Unless otherwise specified on the plans, wall backfill material in the reinforced structure backfill zone and the *associated* trapezoidal retained structure backfill zone shall conform to the requirements for Structure Backfill (Class 1) of Section 206. Structure Backfill (Class 1) shall be considered to be non-aggressive soil for corrosion and durability computations. All wall elements shall be designed to ensure a minimum design life of 75 years for permanent structures.

504.04 Leveling Pad. Leveling pad shall be constructed from crushed stone or unreinforced concrete. Crushed stone used for construction of leveling pad shall meet requirement of ASTM C-33 No. 67 Crushed Aggregate. Concrete for the leveling pad shall be Concrete (Class D) conforming to the requirements of Section 601. Unless specified on the plans, the maximum vertical step shall be no greater than either 24 inches or three blocks, whichever is less. The leveling pad shall be reinforced according to the plan unless otherwise specified on the plans. When the toe of the wall is founded on a slope steeper than 1.5 (H) to 1 (V), the leveling pad shall be constructed with reinforced concrete with same reinforcing schedule as at its steps. Leveling pad concrete shall be cured for at least 12 hours before placement of the concrete blocks.

504.05 Geotextile and Joints. A Geotextile shall be installed on all walls at the structure backfill zone to intercept surface runoff and prevent salt penetration into the backfill of the wall as shown on the plans. The Geotextile shall meet the requirements of subsection 712.07 for geomembrane and shall have a minimum thickness of 30 mils LLDPE. It shall be spliced with a dual track field seamed joint in accordance with ASTM D4437 and ASTM D5820. For small local coverage areas, less than 30 square feet, the membrane may be spliced using a 6 inch minimum overlap and an adhesive or a single seam portable thermal welding tool, as suggested by the membrane manufacturer and approved by the Engineer. Unless otherwise shown on the plans, the membrane shall have a minimum coverage length measured perpendicular to the wall face as shown in the plan. The membrane shall be installed with a slope between 20:1 (minimum) and 10:1 (maximum), as shown on the plans, from the block facing to a drainage system located at the cut or pre-filled slope as shown on the plans. Contractor shall provide site specific working drawing that indicates sheet splices, pattern, slope and daylight location. Prior to membrane installation working drawing shall be submitted by the Contactor and approved by the Engineer.

Drainage pipe shall be a 4” (100 mm) diameter, 3-hole perforated, HDPE pipe with a minimum pipe stiffness of 22 psi (152 kPa) per ASTM D2412, or a 4” (100 mm) diameter, 3-hole perforated, Schedule 40 PVC pipe wrapped with Class 1 Geotextile. The drainage pipe shall be manufactured in accordance with ASTM F2648 for HDPE pipe and fittings, or ASTM D3034 for PVC pipe and fittings. Drainage pipe, geotextile and drainage aggregate shall be installed as shown on the construction shop drawings. Drainage pipe shall be routed to daylight or at least 3” in front of the face of block. Temporary termination of drainage discharge pipe shall be left exposed, clearly marked with a stake or post, properly protected from damage, and indicated to the General Contractor and the Grading Contractor.

Alternatives for the drainage system shown on the plans may be used by the Contractor. A detailed layout of this equivalent site specific water collection system including membrane joints shall be provided as working drawing by the Contractor and approved by the Engineer.

504.06 Prefabricated Concrete Facing Blocks. Concrete blocks including partial blocks shall conform to the requirements shown on the plans and these specifications including the color, texture, and pattern. The Contractor shall provide certification that the results of tests performed in accordance with this subsection meet the requirements of the appropriate specification.

(a) Cementitious material shall meet the requirements of Section 701.

(b) Aggregates used in concrete blocks shall conform to ASTM C33 for normal weight concrete aggregate.

(c) The 28 day compression strength for concrete blocks shall be equal to or greater than 4000 psi. The quality of blocks shall be maintained such that the variations of the compression strengths are within 10 percent. The minimum oven dry unit weight shall be 125 pcf with a maximum water absorption rate by weight of 6 percent. Testing shall be performed in accordance with ASTM C140.

(d) All units shall be sound and free from cracks or other defects that would interfere with proper placement of the unit, or impair the strength or permanence of the construction. Cracks, chips, or color blemishes will be cause for rejection.

Any architectural or graffiti resistant treatments shall meet the requirements if shown on the plans. If architectural coating is used and graffiti resistant treatments or water repellant sealer is required, the Contractor shall provide the Engineer with four sample blocks for each different color and texture prior to beginning wall construction. Water-resistant or repellant coatings shall conform to ASTM C1262.

The permissible variations in the exterior dimensions of the concrete blocks shall not differ more than plus or minus ⅛ inch, except the height of the block shall be within plus or minus $^{1}/_{16}$ inch from the specified dimensions for an individual block. The minimum thickness of any walls or webs within the block shall be on average 2.5 inches at the face and 1.5 inches and 2 inches at stem and back. The vertical edges, if applicable, shall be chamfered for splitting and precise dimensioning.

(e) The Engineer shall be allowed access to the manufacturer's facilities to inspect and sample units from lots prior to delivery with a minimum 2 working days advance notice. The Engineer will reject any concrete blocks, which do not meet the requirements of this specification. The Contractor shall notify the Engineer in writing at least 3 working days before shipment of blocks begins.

504.07 Certifications, Calculations and Testing Reports. The Contractor shall provide the following reports, certifications, calculations and checklists as needed to accompany the shop drawing submittal. All engineering calculations, as stated in subsections shall be certified and stamped by a Professional Engineer licensed in the State of Colorado.

(a) *Report and Certification for Concrete Block 28 Day Compression Strength and Water Absorption Rate*. For the 28 day compressive strength test, either a full block or a saw cut coupon compressive test is acceptable to verify the 28-day concrete strength provided the sample allows the test to conform to ASTM C90. The sampling shall be done at manufacturer’s casting yard and testing results shall be pre-approved before shipment. The Engineer will approve the sample selections for the coupon tests. Coupons shall be cut from the two sides or the back of block (not the front split face) with maximum two original concrete surfaces. The average compressive strength of three tests from three randomly selected blocks, with load applied in the bearing direction shall be equal to or greater than 4000 psi for individual tests in accordance with ASTM C90 and ASTM C140. For the water absorption rate test, a minimum of two coupons shall be prepared and marked for each block, one coupon for successfully conducting the supplier’s tests and one spared for future Engineer’s test. The spared coupons from the three tests shall be labeled and delivered to the Engineer with the certification. The minimum oven dry density of concrete coupons shall be 125 pcf with a maximum water absorption rate by weight of 6 percent as determined by ASTM C140. Coupons shall be cut from relatively the same location of each block and prepared with uniform workmanship. Each individual sample must test within 12 percent of the average of the three.

(b) *Efflorescence and Freeze and Thaw Test*. The block shall be visually efflorescence free. Efflorescence control agent shall be used in concrete mix design. An independent laboratory shall provide reports and certifications using one of the following tests in accordance with ASTM C1262 using tap water or 3 percent saline solution and ASTM C1372 as appropriate:

(1) Test results for freeze and thaw durability shall be graphed and supplied with test data points at a maximum of every 50 cycles up to 300 cycles to confirm that blocks with concrete additives alone can survive 150 cycles with weight loss for each of 4 of the five samples not exceeding 0.75 percent and for 300 cycles not exceeding 1.5 percent of the initial weight in a tap water solution.

(2) Test results for freeze and thaw durability shall be graphed and supplied with test data points at a maximum of every 30 cycles up to 120 cycles to confirm that blocks with concrete additives alone can survive 60 cycles with weight loss for each of 4 of the five samples not exceeding 0.75 percent and for 120 cycles not exceeding 1.5 percent of the initial weight in a 3 percent saline solution.

A project specific freeze and thaw durability test shall be required for walls meeting one of the following requirements:

(1) Projects with a total facing area greater than 6000 square feet, as calculated in subsection 504.20, item (1), or

(2) Projects with any wall in front of or adjacent to bridge abutments and piers.

Wall construction may begin when acceptable freeze and thaw durability test results of units made with the same material, concrete mix design, manufacturing process, and curing method, conducted not more than 12 months prior to delivery until the test results of the actual blocks used in the wall can be obtained and submitted. The test results shall be submitted within one week of being recorded. The frequency of the freeze and thaw durability test shall be a minimum of one test every 6000 square foot of facing, as calculated in subsection 504.20, item (1).

For walls not requiring a project specific freeze and thaw durability test, the Contractor shall submit a certification letter from the facing manufacturer. The certification letter shall include acceptable freeze and thaw durability test results conducted not more than 12 months prior to delivery, which meet the requirements of subsection 07 (b) –(1) or (2) above. The Certification shall be for units made with the same material, concrete mix design, manufacturing process, and curing method. The Engineer shall be allowed access to the manufacturer's facilities and records to verify that the mix design used in the certified freeze and thaw durability test results is the same as the mix design used for the actual blocks used in the project.

(c) *Submittal*. The Contractor shall submit Certifications, Calculations and Testing Reports Calculations, and Testing Report submittal package included with the shop drawing submittal.

CONSTRUCTION REQUIREMENTS

504.08 Approval and Qualifications of Block Wall Installer. The job site wall foreman shall have experience in construction of at least five transportation related block walls within the last three years. Transportation related block walls are walls that carry or are adjacent to vehicular traffic. The foreman must have prior experience or adequate training on the products that the Contractor elects to use on the project. The resume and credentials of the foreman shall be submitted to the Engineer for approval prior to the pre-construction meeting. The foreman shall be on the site for 100 percent of the time during which the wall is being constructed.

504.09 Wall Test Segment. The wall test segment shall be the first segment of the wall constructed. The wall test segment shall be constructed in the presence of the Technical Representative and the Engineer and shall include construction of each of the 5 elements listed in subsection 504.12. The minimum length of the wall test segment shall be 40 feet or the full length of the wall if less than 40 feet. A wall test segment shall be constructed for the first wall constructed from each wall product used on the project.

504.10 Technical Representative of Wall Product Supplier. The Contractor shall arrange for a technical representative (Tech Rep) of the manufacturer of the wall products to be present during the construction of each wall test segment. If the wall products are supplied from different manufactures, a Tech Rep from each wall product shall be present. The Tech Rep shall be present for construction of the wall test segment and each of the following elements:

(1) Placement of a minimum of the first six courses of blocks or a minimum of a four foot wall height and backfill,

(2) If obstructions (i.e. steel piles, concrete piers/abutments, concrete boxes, pipes, utilities etc.) exist, placement of backfill at one of the obstructions,

(3) If a vertical slip joint is required, construction of the vertical slip joint in a minimum of a six course portion of block or a minimum of a four foot wall height, and

(4) If corners are required, construction of a corner representative of the corners in the wall in the project in a minimum of a six course portion of block or a minimum of a four foot wall height.

Before construction of the wall test segment the Tech Rep shall provide the Contractor and the Engineer the following:

(1) Technical instructions as required in the construction of the earth retaining wall system.

(2) Product specific specifications in the placement of backfill in accordance with the wall system.

(3) Guidelines in placing the facing units in accordance with the system requirements.

(4) Provide technical assistance to the facing unit fabricator.

At the completion of the wall test segment the Tech Rep shall provide the following:

(1) Documentation that the wall test segment was constructed in accordance with the product specific specifications. This documentation shall include a location description (starting and ending stations and elevations) of the wall test segment.

(2) Documentation that the job site wall foreman is familiar with the wall products used to construct the walls on the project.

After completion of the wall test segment the Tech Rep shall be available whenever there is any special field condition such as change of geological condition, when there are equipment or personnel changes, or when requested by the Engineer.

504.11 Facial Block Quality Control, Placing Plan and Daily Placement Logs. Before the start of each wall construction, the Contractor shall provide a block-placing plan and shall supply daily placement logs to the Engineer weekly and at the completion of the wall. The daily placement log shall consist of an elevation view of the wall showing the dates, number of blocks placed, and the lot numbers of the blocks placed. The block quality control shall contain multiple submittals if required by subsection 504.07. Blocks shall be labeled with the manufacturer's lot number for each pallet and corresponding certification with one set of random samples tested for each 6000 blocks. At least one certification with supporting test results is required for each wall. Test results shall be reviewed and pre-approved by the Engineer before shipment. The Engineer may conduct separate tests with the spared coupons from the original samples. Block testing shall be increased to one set of sampling for every 3000 blocks if the Engineer identifies substandard blocks or when block color or concrete mix changes. With the Engineer's approval, block sampling may be reduced to one set of sampling for every 12,000 blocks after the first acceptable sampling results. The blocks used for Engineer's verification purposes shall be a maximum of 0.5 percent of the total number of blocks. The Engineer will conduct block sampling as early as possible and acquire blocks regularly. However, when tests are not performed within 90 days of the sampling date, the blocks will be returned untested. The Contractor shall coordinate and mark the block and backfill placing sequence on the daily placement logs. The log serves as means for the Engineer to identify where each lot of blocks was placed.

504.12 Wall with Curved Alignments, Tight Curved Corners, and Sections Adjacent To Structures. The Contractor shall provide a placement plan that shows curved layouts, special block or saw cut block dimensions, sequence of block placement, and construction off-sets as recommended by the manufacture. For tight curved corners, 8 foot radius or less, and dissimilar foundations such as structure foundation, to avoid blocks with random cracks, the Contractor shall install stack bond blocks with vertical slip joints as shown on the shop drawings. A vertical slip joint for stress relief may be built either with pre-cut or partial pre-cut individual blocks or by saw cutting block face of breaking running bond vertically right after installation.

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REVISION OF SECTION 504
PRECAST MODULAR BLOCK GRAVITY RETAINING WALL

504.13 Excavation and Backfill. The base of the leveling pad shall receive the same compaction as cut areas required by subsection 203.07. The Contractor shall report to the Engineer in writing density test results for any unsatisfactory bearing material not meeting the minimum 90 percent compaction for walls less than 16 feet high and 95 percent of AASHTO T-180 for walls higher than 16 feet. If the excavation for the placement of the leveling pad exposes an unsatisfactory bearing material, the Engineer may require removal and replacement of that material. The removed material shall be replaced with Structure Backfill (Class 1) compacted in conformance with subsection 206.03. The Engineer with the assistance of the geotechnical engineer of record will provide the limits including the depth of removal.

The Contractor shall grade the foundation for the bottom of the wall for a width equal to or exceeding the limits as shown on the plans. This graded area shall be compacted with an appropriate vibratory roller weighing a minimum of 8 tons for at least five passes or as directed by the Engineer. For cut wall with continuous seepage, phasing of foundation construction or a different drainage and foundation improvement plan may be necessary.

The reinforced structure backfill zone and the retained structure backfill zone portion immediately behind the wall as defined on the plans shall be Structure Backfill (Class 1). Recycled asphalt, recycled concrete and flow-fill material shall not be substitute for Structure Backfill (Class 1). The triangular or trapezoidal portion behind the concrete blocks and above the spill of backfill, as shown on the plans, shall be filled with crushed stone backfill (ASTM C-33 No. 67 Crushed Aggregate), filter aggregates with filter fabric, or wall system specific fill as approved by the Engineer. Density tests behind and parallel to the wall in the triangular or trapezoidal portion above the backfill spill zone are not required. Each compacted layer of backfill shall not exceed 8 inches and shall be roughly leveled with the top of block elevation of the lift. The fill and compaction operation shall start 1’-6” from the wall back face and progress toward the end of the reinforcement. All Structure Backfill (Class 1) including fill material under the wall and on-site material as allowed under subsection 504.03 shall be compacted to a density of at least 95 percent of the maximum density as determined according to AASHTO T 180.

Backfill containing frost or frozen lumps shall not be used. Backfill that has been placed and becomes frozen shall be removed and replaced at the Contractor's expense. If cold weather conditions prevent the placement of Structure Backfill (Class 1), the Contractor may use Filter Material Class B as backfill without compaction at the Contractor’s expense and approved by the Engineer. The Contractor shall provide a test report, prepared and certified by an independent laboratory, that the internal friction angle of soil for the Filter Material Class B meets or exceeds that shown on the plans.

The Contractor shall place additional blocks including partial height blocks and properly compacted fill material to return the finished grade to the plan elevations if settlement, as determined by the Engineer, has occurred. A final inspection before the installation of rail anchoring slab will be made after construction settlement, if any, has occurred or 30 days after the completion of the wall. The Contractor shall provide immediate temporary storm water protection and wind erosion control at the end of each day during construction. If settlement occurs as the result of loss of backfill due to wind or water erosion, non-conforming backfill such as frozen fill or over-saturated fill, or if the backfill does not meet compaction requirements, the Contractor shall remove the backfill, and bring the elevation to the finished grade at the Contractor's expense. Before final project acceptance, the Contractor shall repair any backfill losses due to wind and water erosion.

To avoid the foundation of the leveling pad being washed out by rain, the area in front of the wall and around the leveling pad shall be backfilled as soon as practicable.

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REVISION OF SECTION 504
PRECAST MODULAR BLOCK GRAVITY RETAINING WALL

504.14 Leveling Pad. The foundation of the leveling pads shall meet the requirements as shown on the plans.

Cushion or shimming material (Expansion Joint Material, Concrete Mortar Grout, Roofing Felt, or Geosynthetic Reinforcement) shall be used to support the blocks that are to be directly founded on the leveling pad. Before starting a new course of blocks, the Contractor shall take measures to ensure that the wall elevations will be matched at the next leveling pad step. Cushion or shimming material or grinding as necessary shall be used to obtain the necessary block elevations at the next leveling pad step.

504.18 Block Facing. For walls that support a roadway, the wall layout line at the leveling pad shall be set back and pre-measured with appropriate batter (5 to 8 percent) from the top of the blocks according to the offset with respect to the centerline of the road. For walls adjacent to a roadway, the wall layout line at the leveling pad shall be directly offset from the centerline of the trail. An overall negative batter (wall face leaning outward) between the bottom and the top of the wall is not allowed. For vertical walls, unless otherwise noted on the plans, the final wall face shall be vertical or shall have a positive batter that is not greater than 5 percent for construction control purposes. For walls higher than 16 feet, the 5 percent batter requirement shall be relaxed to a maximum of 8 percent as required for special block products. The surface of the wall face shall be tested with a 10 foot straightedge laid along the surface in the horizontal and vertical directions. Except as necessary for horizontal alignment of the wall, a convex deviation (wall belly) of the wall face from the straightedge shall not be allowed, and any concave deviation (wall depression) from the straightedge shall be less than ¾ inch.

Unless otherwise noted, all blocks shall be dry-stacked and placed with each block spanning the joint in the row below (running bond). Shimming or grinding shall control the elevations of any two adjacent blocks within 1/24 inch. The top of blocks shall be tested with a 3 foot or longer straight edge bubble level. All high points identified by the straight edge shall be ground flat. Tilting of the blocks, from front to back of the wall, shall be checked at each course, correction by shimming shall be done no later than three completed courses. Precast cap blocks may be used in lieu of a cast-in-place reinforced concrete cap. All concrete used for cast-in-place cap and grout shall have a minimum 28 day compression strength of 4000 psi.

For walls with rail anchoring slabs, the top of block elevations shall be within 2 inches of the bottom of the anchoring slab. Cast-in-place concrete or sawcut partial height blocks may be used to accomplish this without extra cost to the project.

As shown on the plans, facing blocks directly exposed to spray from deiced pavements and indirect windborne spray shall have three coats of water resistant or repellant concrete sealer applied to the front face of the wall before the wall is opened to traffic.

504.19 Fill under Leveling Pad. For walls requiring fill under the planned elevation of the leveling pad, the Contractor may lower the elevation of the leveling pad as approved by the Engineer, except that the finished elevation at the top of the wall shall not be altered. As requested by the Contractor, and with the Engineer's approval, the higher wall shall be redesigned.

METHOD OF MEASUREMENT

504.20 Concrete gravity block walls will be measured for payment in the field, and will be paid for by the calculated quantities shown on the plans for the five major components of the wall: structure excavation, structure backfill, block facing, wall drain, and geotextile. The Contractor's construction of a system that requires increased or decreased quantities of any of the components to complete the wall to the dimensions shown will not result in a change in pay quantities. Exceptions will be made when field changes are ordered or when it is determined that there are discrepancies on the plans in an amount of at least plus or minus five percent of the plan quantity.

(1) *The block facing quantity was calculated for the square foot of wall front face area from the top of the leveling pad (or average pad elevations) as shown on the plans to the top of the anchoring slab for walls with railing, or to the top of the cast in place coping for walls without railing.*

(2) *The structure excavation quantity was calculated for the total volume of earth to be removed as shown on the plans.*

(3) *The structure backfill quantity was calculated for the total volume behind the wall (the retained structure backfill zone) including the material in the reinforced zone as shown on the plans.*

(4) *Geotextile, crushed stone backfill, and wall drains are not measured paid separately but shall be included in the work.*

The square foot and cubic yard quantities computed for payment are the wall plan quantities based on the height measured at 20 foot maximum intervals along the wall layout line.

BASIS OF PAYMENT

504.21 The accepted quantities will be paid for at the contract unit price per unit of measurement for the pay items listed below:

Payment will be made under:

Pay Item	**Pay Unit**
Precast Modular Block Gravity Retaining Wall	Square Foot

Structure excavation will be paid for under the Section 206 Pay Item Structure Excavation. Structure backfill will be paid for under the Section 206 Pay Item Structure Backfill (Class 1).

Payment will be full compensation for all work and materials required to construct the concrete block wall. Miscellaneous items such as, dual track welding of Geomembrane, drainage ditches, rundowns, filter material, filter fabric, grout, pins, shimming material, concrete block coating and providing a technical representative will not be measured and paid for separately but shall be included in the work.

REVISION OF SECTION 601
STRUCTURAL CONCRETE

Section 601 of the Standard Specifications is hereby revised for this project as follows:

Subsection 601.02 shall include the following:

Retaining walls under 3.5’ in height shall be Class D Concrete (Wall). All walls exceeding 3.5’ shall be Gravity Block Walls as shown on plans.

Two-inch diameter weep holes shall be placed 6" above back of the trail finished grade at 10' spacing o.c. The Weep holes shall drain at 2% through the wall. Install 12" wide strip of geocomposite wall drain at weep hole locations.

The Weep holes and geocomposite wall drain are incidental to the work and shall not be paid for separately.

Weep holes shall be 2" diameter spaced at 10' O.C., placed 6" above the top of the trail finished grade. The Wall

height varies from 6” to 3.5' tall. All walls exceeding 1.0’ in height shall require 6"x6" W3.5 wire mesh. The Mesh

shall be placed on the centerline of the wall.

All work to build the wall will be included in the work and shall be paid as bid item 601-01050 Concrete Class D (Wall).

REVISION OF SECTION 604
MANHOLES, INLETS, AND METER VAULTS

Section 604 of the Standard Specifications is hereby revised for this project as follows:

Delete subsection 604.02 and replace with the following:

604.02 Materials for this inlet structure shall meet the requirements of the County of Standard Detail and as modified on the plans.

Delete subsection 604.04 and replace with the following:

604.04 Where inlets are placed in existing curbs or gutters, the Contractor shall carefully remove sections of the present curb, gutter, or curb and gutter. All damage to sections to remain in place shall be repaired at the Contractor's expense. The top portion of inlets shall be constructed concurrently with the adjacent curb and gutter to ensure proper alignment of grades unless otherwise permitted in writing.

Invert heights and placement of inlet shall be according to plans.

Delete subsection 604.06 and replace with the following:

604.06 Inlets will be measured by the complete unit including grating and frame.

Structure excavation and structure backfill for inlets will not be measured and paid for separately but shall be included in the work.

Delete subsection 604.07 and replace with the following:

604.07 The accepted quantities will be paid for at the contract unit price for each of the pay items listed below that appear in the bid schedule. Except as otherwise indicated on the plans or in the special provisions, all connecting devices will not be measured and paid for separately but shall be included in the work.

Payment will be made under:

Pay Item	**Pay Unit**
Inlet Type 16 (Triple) (5 Foot)	Each

REVISION OF SECTION 607
FENCES

Delete subsection 607.02 and replace with the following:

607.02 Materials shall meet the requirements specified per manufacturer and shall be a post and dowel two rail. Wood material for posts and rail shall be per manufacturer and approved by County Engineer.

Shop drawings for fence shall be submitted to Engineer prior to installation for County approval.

Delete subsection 607.03 and replace with the following:

607.03 The Contractor shall perform such clearing and grubbing as may be necessary to construct the fence to the required grade and alignment.

At locations where breaks in a run of fencing are required or at angles, appropriate adjustments in fence alignment and post spacing shall be made to satisfy the requirements for the type of fence in general compliance with plan location.

Delete subsection 607.04 and replace with the following:

607.04 Fence Wood Railing will be measured by the lineal foot. Posts will not be paid for separately but shall be included in work.

Measurement will be along the base of the fence from outside to outside of end posts for each continuous run of fence, and shall include all wood, hardware, concrete, reinforcing steel, excavation and backfill, and all other incidentals to the erection of the fence per the manufacturer specification.

Delete subsection 607.05 and replace with the following:

607.05 The accepted quantities of fence will be paid for at the contract unit price for each of the pay items listed below that appear in the bid schedule.

Payment will be made under:

Pay Item	**Pay Unit**
Fence Wood Railing	LF

REVISION OF SECTION 608
SIDEWALKS AND BIKEWAYS

Section 608 of the Standard Specifications is hereby revised for this project as follows:

Add Section 608.03 (g):

Sidewalk Drains shall be constructed at locations as shown on the construction plans. Sidewalk Drains shall be constructed per El Paso County Standard Drawing "Curb Opening with Drainage Chase Detail", as shown on the construction plans, and modified therein. Neehah R-4990-JX solid top Steel cover plates included as part of Sidewalk Drains shall be installed per manufacturer's specifications and shall be ADA-compliant.

Subsection 608.05 shall include:

Detectable warnings on curb ramps, including plates, and all other work and materials necessary for fabrication, transport, and installation will not be measured and paid for separately, but shall be included in the cost of the Curb Ramp (Special).

Section 608.06 shall include:

All workmanship and materials to build sidewalk chase will be included in work and paid as bid item 608-10010 Sidewalk Drain (Each).

REVISION OF SECTION 609
CURB AND GUTTER

Section 609 of the Standard Specifications is hereby revised for the project as follows:

Subsection 609.03 (b) shall include:

It is assumed that the edge of the existing roadway will be used for a front form if the road is sawed to a neat vertical line and the sawcut follows a standard offset of the horizontal control line. If the roadway adjacent to the sawcut is damaged or jagged, it will be necessary to sawcut and remove a minimum of 1 foot of the roadway as measured from the horizontal control line and patch it with hot-mix asphalt along the entire length of the damaged portion in conformance with Section 403 of these project special provisions.

Subsection 609.03 (e) shall include:

Concrete sidewalk contraction joints shall be placed at intervals not to exceed 12 feet.

609.07 shall include:

Item number 609-22900 - Curb, Gutter, and Sidewalk (Special), shall be constructed per the detail shown in the plans. For curb walls indicated as such on plans, concrete beneath exposed wall shall be Concrete Class B and paid for under Curb, Gutter and Sidewalk (Special).

6” curb walls shall be poured monolithically with sidewalk. Curb wall shall be paid for under the item 609-20010 – Curb Type 2 (Section B).

REVISION OF SECTION 625
CONSTRUCTION SURVEYING

Section 625 of the Standard Specifications is hereby revised for the project as follows:

Subsection 625.01 shall include:

Contractor shall include additional survey services to perform an as-built survey. Delivered to El Paso County in a PDF sheet form and AutoCAD files.

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TRAFFIC CONTROL PLAN-GENERAL

REVISION OF SECTION 630 – CONSTRUCTION ZONE TRAFFIC CONTROL

Subsection 630.01 – Description is hereby revised to include the following:

This work consists of the review of traffic control plans, installation of traffic control devices (including but not limited to barricades, channelizing devices, signs, flagging, etc), and traffic control management.

Subsection 630.10 – Construction Requirements is hereby revised to include the following:

Sign Panels: Sign Panels shall conform to CDOT standard specifications, section 614.04.

Signposts: Signposts shall conform to CDOT standard specifications, section 614.02.

The surface areas of new asphalt pavement, existing asphalt pavement, and existing concrete pavement that are to receive markings shall be cleaned with a high-pressure air blast to remove loose material before placement of the modified epoxy pavement marking. Should any pavement become dirty, from tracked mud etc. as determined by the Engineer, it shall be cleaned before the placement of the modified epoxy pavement marking.

Traffic Control: The contractor is responsible for the reviewing of the traffic control plans and coordinating with the Engineer and Project Manager if additional traffic control management measures are deemed necessary during construction of the Project. Any revisions to the traffic control plans will need to be submitted to the Engineer and the County prior to construction.

Any revised traffic control plans must be stamped by a licensed professional engineer from the state of Colorado. The Contractor shall provide comments on the traffic control plans at the preconstruction meeting.

All traffic control devices shall be provided with all components necessary to comprise a complete installation. Traffic control devices deemed inadequate by the Engineer shall not be used and shall be removed from the project site.

Work zone devices designated by FHWA as Category I, II, or III, shall comply with the performance criteria contained in NCHRP Report 350 (only applicable for devices developed before 2011) or MASH (acceptable for all devices). Devices designated as Category IV, including but not limited to portable or trailer-mounted devices such as flashing arrow panels, temporary traffic signals, area lighting supports, and changeable message signs are not required to meet NCHRP 350 or MASH requirements.

Except for Category IV devices, the Contractor shall obtain and present to the Engineer the manufacturer’s written NCHRP 350 (only applicable for devices developed before 2011) or MASH (acceptable for all devices) certification for each work zone device before it is first used on the project.

The Flashing Beacon (Portable) shall include all work and material necessary to complete the item. The beacon head, lens, signal lamp, flasher and electrical boxes and fittings shall conform to permanent flashing beacon requirements. The post or mounting method shall conform to construction traffic control materials. Portable devices that require weight to prevent overturning shall be weighted with appropriately sized sandbags.

Traffic control devices that are damaged, weathered, worn, or otherwise determined to be unacceptable, shall be replaced at the Contractor's expense.

The Contractor shall designate an individual, other than the superintendent, to be the Traffic Control Supervisor. The Traffic Control Supervisor shall be certified as a worksite traffic supervisor by an authorized entity and shall have a current flagger certification from an authorized entity. A copy of the Traffic Control Supervisor's certifications shall be provided to the Engineer at the pre-construction Conference and shall be available at all times on the worksite.

TRAFFIC CONTROL PLAN-GENERAL

All labor required in the contractors traffic control plans, including but not limited to traffic control supervision, management and flagging shall not be paid for separately but shall be included in the work and materials required in the contractors traffic control plans, including but not limited to barricaded, channelizing devices, signage shall not be paid for separately but shall be included in the work.

Subsection 630.17 and 630.18– Method of Measurement and Basis of Payment is hereby revised to include the following:

Payment under Traffic Control will not be measured but will be paid for on a lump sum basis and will include all materials and labor required per traffic control plans and includes installation, maintenance, and removal of traffic control materials.

Payment for will be made under:

Item No.	**Pay Item**	**Pay Unit**
630-00016	Traffic Control	Lump Sum

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UTILITES

Known utilities within the limits of this project are:

Colorado Springs Utilities Energy (Elec)	Mary Hoaglund	(719) 650-9151
Colorado Springs Utilities Water	AJ Wertz Tim Benedict 719-668-3574	(719) 668-5586
Black Hills Energy (Gas)	Bob Swatek	(719) 393-6655
Lumen Technologies	Robert McLeod	(303) 949-2187
Cascade Metro District	Kevin Walker	(719) 331-5480

The work described in these plans and specifications requires coordination between the Contractor and the utility companies in accordance with subsection 105.11 in conducting their respective operations as necessary to complete the utility work with minimum delay to the project.

The work listed below shall be performed by the Contractor in accordance with the plans and specifications, and as directed by the Engineer. The Contractor shall keep each utility company advised of any work being done to its facility, so that the utility company can coordinate its inspections for final acceptance of the work with the Engineer.

In no way shall the contents of this utility specification contradict the Standard Construction Specification. Any discrepancies identified by the Contractor shall be brought to the attention of the Project Engineer for clarification and resolution.

The utility companies have been notified of potential conflicts and will be responsible for relocating all conflicting utilities prior to construction. It is the contractor's responsibility to verify that all conflicting utilities have been relocated.

Should an additional utility conflict arise, it is the contractor's responsibility to coordinate with the utility owner(s). Coordination with utility owners may include, but is not limited to, staking construction features, providing and periodically updating an accurate construction schedule which includes all utility work elements, providing written notification of upcoming required utility work elements as the construction schedule indicates, allowing the expected number of working days for utilities to complete necessary relocation work, conducting necessary utility coordination meetings, and all other necessary accommodations as directed by the Engineer. The Contractor shall keep each utility company advised of any work being done to its facility, so that the utility company can coordinate its inspections for final acceptance of the work with the Engineer.

The Contractor shall provide traffic control for any utility work expected to be coordinated with construction, as directed by the Engineer.

The location of existing utility facilities as shown on the plan and profile sheets, and herein described, were obtained from the best available information.

PART 1 – CONTRACTOR SHALL PERFORM THE WORK LISTED BELOW:

All Utility Companies

The Contractor will contact each utility company a minimum of 2 business days, unless otherwise noted, prior to working in the utility company's area so that the utility company can provide an inspector and/or complete any necessary adjustments or relocations.

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UTILITES

If a need for utility work by either the Contractor or a utility company arises, the following shall apply:

The Contractor shall be responsible for coordinating the adjustment of utilities on this project. The Contractor shall keep each utility company advised of any work being performed in the vicinity of their facilities, so that each utility company can coordinate any needed locates, adjustments or inspections. The Contractor shall provide the appropriate utility company ample notice, but not less than two (2) working days, prior to commencing activities in the vicinity of their facilities. Any additional work performed by the Contractor on behalf of the impacted utility company shall not be paid for by El Paso County but shall be paid by the utility company requiring the work, unless otherwise agreed to in writing by the Engineer.

This project will require coordination with utilities as part of the work. The Contractor shall be responsible for potholing and verifying the location of all utilities in close proximity to any required work in advance for the purpose of identifying conflicts not otherwise addressed in the plans and specifications as well as for the purpose of determining the extent of the conflict, and whether relocation or adjustment is required. This work will be paid for by contract bid item – Potholing. The Contractor shall share its potholing information with the impacted utilities in advance so that the utilities can coordinate the relocation work and accommodate the Contractor's work schedule. To the extent practicable, the Contractor shall be required to work around and protect existing utilities in place for the purpose of maintaining service. Close coordination with the utility owners will be required in making a determination of whether or not existing facilities can be protected in place. Damage to existing utilities resulting from construction operations wherein the utility has elected to leave its facility in place and the Contractor has expressed concern over protecting the same in place shall be the utility owner's responsibility. The Contractor shall be responsible for coordinating the relocation work with the impacted utility. Any required relocation work will be performed by the impacted utility at no cost to the project unless otherwise specified herein or directed by the Project Engineer.

PART 2 - UTILITY OWNERS SHALL PERFORM THE WORK LISTED BELOW:

Although the Contractor shall provide traffic control for utility work expected to be coordinated with construction, traffic control for utility work outside of typical project work hours or outside of project limits shall be the responsibility of the utility owner. The utility owner shall prepare and submit to the Engineer a Method of Handling Traffic for utility work to be performed outside typical project work hours or outside of project limits. The utility owner shall obtain acceptance of the Method of Handling Traffic from the Engineer prior to beginning the utility work to be performed outside typical project work hours or outside of project limits.

This work will be performed by the utility owners as necessary to avoid conflicts with construction activities. Utility owners shall comply with schedule requirements of the Contractor and make every effort not to impact the overall construction schedule. Unless otherwise approved by the Engineer, abandoned above ground appurtenances such as pedestals shall be removed and abandoned underground utilities and manholes/handholds shall be abandoned in place.

Utility owners are responsible for obtaining all necessary permits as required.

Exhibits for all existing utility relocations shall be provided to individual utility company for specific relocations, finished grades and proposed design.

Colorado Springs Utilities (Electric)

Colorado Springs Utilities will relocate multiple overhead facilities and corresponding guidewire at locations indicated on plans. This work will be performed by Colorado Springs Utilities at no cost to the project.

Cascade Metro District

Colorado Springs Utilities has assumed ownership, operation and maintenance of Cascade Metro District distribution system and facilities. For relocations and how work shall be performed see Colorado Springs Utilities (Water) section of this specification.

UTILITES

Colorado Spring Utilities (Water)

Colorado Springs Utilities shall relocate any water lines, meters or hydrants indicated on plans. Relocations shall follow the provided utility exhibits and be performed by Colorado Springs Utilities at no cost to the project.

Lumen Technologies

Lumen Technologies will relocate various telephone pedestals, telephone line and fiber line facilities as shown on the plans and indicated in utility exhibits. This work shall be performed by Lumen Technologies crews at no cost to the project. The contractor shall protect all Lumen Technologies facilities in place during construction that are not indicated as relocations on plans.

Blackhills Energy (Gas)

A high-pressure gas line is located within the asphalt pavement area running parallel to proposed trial alignment for the majority of the project limits and may be in close proximity to work being completed. An inspector and/or field crew from Blackhills shall be on-site at all times to ensure existing gas lines are protected in place.

All gas line and gas meters indicated on plans to be relocated shall follow the provided utility exhibits and be performed by Blackhills Energy crews at no cost to the project.

Unknown Communications Facility

The following power pole located at the below station require relocation. These facilities have not been claimed by anyone and will be dealt with during construction.

Station 155+88

GENERAL:

The Contractor shall comply with Article 1.5 of Title 9, CRS ("Excavation Requirements") when excavation or grading is planned in the area of underground utility facilities. The Contractor shall notify all affected utilities at least two (2) business days, not including the day of notification, prior to commencing such operations. The Contractor shall contact the Utility Notification Center of Colorado (UNCC) at (8-1-1) or 1-800-922-1987 to have locations of UNCC registered lines marked by member companies. All other underground facilities shall be located by contacting the respective company. Utility service laterals shall also be located prior to beginning excavating or grading.

The utility plans for this project were prepared in an effort to develop strategies to reduce risk to construction by identifying and coordinating known utility work to be completed as part of the project. The contractor certifies that it has performed its due diligence in complying with the 811 Subsurface Utility Engineering requirements as fully set forth in Article 9-1.5-103, Colorado Revised Statutes, as amended, and in accordance with the Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data as developed by the American

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UTILITES

Society of Civil Engineers (ASCE) CI/ASCE 38-02. Quality level A, B, C and D information has been depicted in the utility plans as part of the design for this project. Information relating to the work to be performed by the owner and/or the contractor, and how the work is to be paid for and the estimated amount of time to complete the relocation work has been provided. Test hole information is included for the Contractor's information.

All new underground facilities, including laterals up to the structure or building being served, installed as part of this project must be electronically locatable when installed, in compliance with CRS, Title 9, Article 1.5.

The contractor shall cooperate with the utility owners in their relocation operations as provided in subsection 105.11 of the Standard Specifications for Road and Bridge Construction. No guarantee is made that utility conflicts will be resolved prior to construction activities and any delays resulting from utility relocation work shall be dealt with in accordance with subsection 108.08 of the Standard Specifications for Road and Bridge Construction as amended.

All costs incidental to the foregoing requirements will not be paid for separately but shall be included in the work.

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MINOR CONTRACT REVISIONS

MATERIAL AND CONSTRUCTION REQUIRMENTS

F/A Minor Contract Revisions (MCR) may be initiated at the sole discretion of the Engineer for work required by the project and not identified as incidental. The intent of MCR is to provide a mechanism for payment for minor work required to complete the project not identified elsewhere in the contract documents. If not deemed minor by the Engineer, the Contractor may be required to prepare a formal change order through the County process identified in the contract documents. The Contractor may not submit charges for MCR without prior approval of the Engineer.

Item No. **700-70010**, Pay Item **F/A Minor Contract Revisions** encompasses the following force accounts listed, but are not limited to:

Erosion Control
Utilities
Drainage
Testing

METHOD OF MEASURMENT

F/A Minor Contract Revisions is a force account item.

BASIS OF PAYMENT

Payment for F/A Minor Contract Revisions shall be in accordance with section 109.04 of the CDOT Standard Specifications.

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DISADVANTAGED BUSINESS ENTERPRISE (DBE) CONTRACT GOAL

REQUIRMENTS

This is a federally-assisted construction project. As described in the CDOT DBE Standard Special Provision, the Bidder shall make good faith efforts to meet the following contract goal:

4% Percent DBE participation.

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ON THE JOB TRAINING (OJT) CONTRACT GOAL

MATERIAL AND CONSTRUCTION REQUIRMENTS

The Department has determined that On the Job Training shall be provided to trainees with the goal of developing full journey workers in the types of trade or classification involved. The contract goal for On the Job Trainees working in an approved training plan in this Contract has been established as follows:

Minimum number of total On the Job Training required 100 hours

METHOD OF MEASURMENT

Item No. **700-700023**, Pay Item **F/A On the Job Training** is a force account item.

BASIS OF PAYMENT

Payment for F/A On the Job Training shall be in accordance with section 109.04 of the CDOT Standard Specifications.

COLORADO
Department of Transportation
Office of the Chief Engineer

Local Agency Bulletin

Division of Project Support
Project Development Branch
Local Agency Program

New Buy America (BA) and Build America, Buy America (BABA) Requirements
2025 Number 1, Page 1 of 6
Date: April 21, 2025

New Buy America (BA) and Build America, Buy America (BABA) Requirements

The purpose of this Bulletin is to provide information and instruction regarding revisions to Standard Specifications 101.02 and 106.11. Changes to the specifications were made to comply with the supplemental guidance issued by the Office of Management and Budget in Washington, D.C. as contained in Memorandum M-24-02 released October 25, 2023, and based on the Notification of Final Guidance/Final Rule as published in the Code of Federal Regulations on August 23, 2023. Three revised specifications were issued as Standard Special Provisions (SSPs) on January 8, 2024 and should be applied to projects with a Construction Phase Federal Funding Authorization Date that occurred on or after October 23, 2023. **Projects currently under Ad or that have already been opened/awarded and that meet the criteria outlined herein should pursue a Revision Under Ad or a contract Modification Order (CMO), respectively, to ensure the appropriate specification is included in the project.**

To determine which of the three SSPs should be included on your project, the Local Agency Coordinator will need to determine the Federal Funding Authorization Date for the Construction Phase as well as the total amount of Federal-Aid highway funding used or to be used in the project.

The federal-aid highway funding amount is to include all federal funding utilized in any pre- construction phase (Right of Way, Utility, Design, Environmental, and Miscellaneous), as well as the construction phase. Instructions on determining the amount of federal-aid highway funding used or to be used in the project and determining the Federal Funding Authorization date are provided below.

Additionally, application of Buy America is required for all contracts eligible for Federal-Aid assistance under Title 23 within the scope of a finding, determination, or

decision under the National Environmental Policy Act (NEPA), regardless of funding source, if at least one contract within the scope of the same NEPA document is funded with Federal funding provided under Title 23. This would apply even if the NEPA process was completed prior to October 23, 2023. Consultation with the CDOT Program Engineer as well as the FHWA Area Engineer for your Region is recommended to help determine those potential projects that fall under this criteria.

> Example 1: Aerotropolis Interchange on I-70 is being constructed by a developer with no federal funds. The project will, however, need to follow Buy America and Build America, Buy America (BA/BABA) requirements since the interchange was cleared in an Environmental Assessment (EA) as part of the E470/I-70 interchange complex.
>
> Example 2: Crystal Valley Interchange. Phase 1 is developer only funds. Phase 1 will need to incorporate Buy America and Build America, Buy America (BA/BABA) requirements because the City is planning to use federal funds in Phase 2 and they have a RAISE grant that they are using to acquire right-of-way. The project was the preferred alternative from the Crystal Valley/I-25 Interchange Environmental Assessment (EA)

Federal Funding Authorization Date

Local Agency Coordinators will now have to determine the federal funding authorization date for construction**.** NOTE: this is the date FHWA authorizes the construction phase and agrees to pay us (CDOT) for the work performed after that date, not the budget request or budget action date when funds are requested for the project. **Projects with a Federal Funding Authorization date for the construction phase that have occurred on or after October 23, 2023, are required to incorporate the Final (new) BA/BABA requirements.**

The federal funding authorization date can be determined from the ZJ40LA (Project Status) report available from SAP, under the FHWA Agreement Date Column. Alternatively, the federal funding authorization date can be requested from the Region or HQ Business Manager.

The federal funding authorization date may potentially also be used to determine compliance requirements for other phases that may pay for work/materials, e.g., utility phase, miscellaneous phase, etc., as well as allow for the De Minimis provision of the new specification to be applied to those phases.

Example ZJ40LA reports are provided below:

Example 1) ZJ40LA Report for PCN #24596 – FHWA Authorization Date = FHWA Agreement Date Column for Construction.

Local Agency Project Status Report.

Report Date: Oct 10, 2024

Project Information:

Project Definition: **24596**	Prefix: **SAR**	Project Number: **P6C0-035**	Project Profile: **Z000002**
Project Description: **SMITH ELEMENTARY INT IMP-SRTS - Denver-**			Region: **01**
Init Planned AD Date: **09/30/2022**		Current Planned AD Date: **09/30/2022**	Scheduled AD Date: **12/01/2023**
Actual AD Date:	Construction DBE Goal: **0.00**	Davis-Bacon?	Concur to Award:
Re-AD Date:	LA Record Retention:	Award Date:	Construction Start Date:
Environmental Clearance Date: **12/01/2022**		STIP ID: **SR17013**	Subrecipient Risk Level: **LOW**
IGA Valid to Date: **06/28/2031**	IGA Contract #: **0331002524**	Companion Projects:	
Primary RA: **06/11/2021**	Updated RA:		

Local Agency Funding & Overmatch

	Phase Estimate	FED Funding	Local Match	State Match	Local Overmatch	FHWA Agreement Date	FHWA End Date
Right Of Way:	0.00	0.00	0.00	0.00	0.00		
Utility:	0.00	0.00	0.00	0.00	0.00		
Design:	167,487.00	133,990.00	33,497.00	0.00	0.00	09/08/2021	06/30/2024
Environmental:	0.00	0.00	0.00	0.00	0.00		
Miscellaneous:	0.00	0.00	0.00	0.00	0.00		
Construction:	910,302.00	267,702.00	66,926.00	0.00	575,674.00	10/19/2023	05/31/2026
Total :	1,077,789.00	401,692.00	100,423.00	0.00	575,674.00		

Project's Total Funding: **502,115.00**

For the above example, the Construction phase funding for this particular project was authorized by the FHWA on October 19, 2023. Because the federal funding authorization date occurred prior to October 23, 2023, this project will not require that the Final BA/BABA requirements be included in the project specifications package. This particular project would require preliminary BA/BABA compliance as contained within the 2023 CDOT Standard Specifications for Road and Bridge Construction.

NOTE: The FHWA Agreement date can differ by phase if federal funding has been requested/utilized in multiple phases of the project. You should be looking specifically for the agreement date for the Construction phase of the project to determine whether the new BA/BABA requirements should apply to the project.

Example 2) ZJ40LA Report for PCN #24393 – FHWA Authorization Date = FHWA Agreement Date Column for Construction

Local Agency Project Status Report.

Report Date: Oct 8, 2024

Project Information:

Project Definition: **24393**	Prefix: **TAP**	Project Number: **1211-100**	Project Profile: **Z000002**
Project Description: **SH121 SHARED USE PATH & INTERSECT RECON**			Region: **01**
Init Planned AD Date: **04/07/2022**		Current Planned AD Date: **10/06/2022**	Scheduled AD Date: **10/10/2023**
Actual AD Date:	Construction DBE Goal: **0.00**	Davis-Bacon? **Y**	Concur to Award:
Re-AD Date:	LA Record Retention:	Award Date:	Construction Start Date:
Environmental Clearance Date: **06/09/2022**		STIP ID: **SR15098**	Subrecipient Risk Level: **LOW**
IGA Valid to Date: **03/29/2031**	IGA Contract #: **0331002417**	Companion Projects:	
Primary RA:	Updated RA:		

Local Agency Funding & Overmatch

	Phase Estimate	FED Funding	Local Match	State Match	Local Overmatch	FHWA Agreement Date	FHWA End Date
Right Of Way:	0.00	0.00	0.00	0.00	0.00		
Utility:	0.00	0.00	0.00	0.00	0.00		
Design:	642,952.00	436,431.00	109,109.00	0.00	97,412.00	08/02/2021	12/31/2025
Environmental:	0.00	0.00	0.00	0.00	0.00		
Miscellaneous:	0.00	0.00	0.00	0.00	0.00		
Construction:	7,894,536.00	6,478,531.00	1,619,631.00	0.00	0.00	11/08/2023	12/31/2025
Total :	8,537,488.00	6,914,962.00	1,728,740.00	0.00	97,412.00		

Project's Total Funding: **8,643,702.00**

For this example, the Federal Funding Authorization Date is November 8, 2023. This is on or after October 23, 2023, therefore the final BA/BABA provisions would apply to this project. The amount of federal-aid highway funding should then be obtained to determine which of the new BA/BABA specifications should be included in the project.

Funding Types and Amounts

Local Agency Coordinators will also have to determine the types and amounts of federal funding in the project. Due to the complexities in funding codes as well as the often multiple sources of funding that can be seen in a project, it is recommended that these questions be answered through consultation with their respective Business Office. They will need to determine the total amount of federal-aid highway funding in the project to determine the level of compliance necessary. This is the sum of federal-aid highway funding that is or is planned to be used in ALL Phases, pre-construction (RUDEM) through construction. If there is a single dollar of federal-aid highway funding within any phase of the project, the entire project is thus considered federalized. Example: A single dollar of federal-aid highway funding was used in the environmental preconstruction phase of the project. Even if no federal-aid highway funding was used in the construction phase, federal- aid requirements for the project still would need to be applied/enforced. Buy America and Build America, Buy America requirements do not apply to projects solely funded with State and Local Fiscal

Recovery Funds (SLFRF) provided by the American Rescue Plan Act (ARPA), commonly referred to as Federal Recovery Funds. However, if this funding source is mixed with another Federal funding source, Buy America and Build America, Buy America requirements apply.

The updated BA/BABA specifications as well as the criteria on which should be used are provided below:

- $500,000 or more of federal funding and a construction phase federal funding obligation date on or after October 23, 2023 - (Revision of Sections 101 and 106 - Buy America and Build America, Buy America Requirements for Projects Containing $500,000 or More in Federal-Aid Highway Funding):
    - Specification will require full Buy America (BA) and Build America, Buy America (BABA) requirements apply for iron or steel, manufactured products, and construction materials.
    - Form #1600 and Form #1610 are required when the SSP "Revision of Sections 101 and 106 Buy America and Build America, Buy America Requirements for Projects Containing Federal-Aid Highway Funding in the Amount more Than $500,000" is included. Please note, the 1600 form has been revised to track delivered products throughout the project and not just monthly. The forms are available here Field Materials Manual .
- Less than $500,000 of federal funding and a construction phase Federal Funding Authorization Date on or after October 23, 2023 - (Revision of Sections 101 and 106 - Buy America and Build America, Buy America Requirements for Projects Containing Federal-Aid Highway Funding in the Amount Less Than $500,000):
    - No Buy America (BA) or Build America, Buy America (BABA) requirements apply on the project.
    - Note: the domestic source of glass beads requirement still applies, and the project could have the Revision of 106 - Country of Origin specification included if the project budget is greater than $500,000 and is exclusively state- funded.
    - Form #1600 and Form #1610 are not required when the SSP "Revision of Sections 101and 106 Buy America and Build America, Buy America Requirements for Projects Containing Federal-Aid Highway Funding in the Amount Less Than $500,000" is included.

Level of compliance for final BA/BABA guidance on the project will be addressed by which of the two specifications is used.

NOTE: The breakdown on types/amounts of funding cannot be determined by the ZJ40LA report, but if there is an FHWA agreement date in any of the project phases, it is indicative of Federal Funding has been used in the project.

Additional Information

An example for multiple component items like guardrail has been added to the Fields Material Manual.

Products on the APL or QML have not been checked for compliance with the new BA/BABA requirements.

For more information on Buy America and Build America, Buy America please visit the following webpage: https://www.codot.gov/business/designsupport/buy-america-requirements

Please contact CDOT_BuyAmerica@state.co.us for additional support or questions.

Decision Nos. CO20250008 dated July 18, 2025 MOD 1 supersedes **Decision Nos. CO20250008** dated January 3, 2025 MOD 0.	**Modifications**			**ID**
	Mod Number	**Date**	**Page Number(s)**	
When work within a project is located in two or more counties and the minimum wages and fringe benefits are different for one or more job classifications, the higher minimum wages and fringe benefits shall apply throughout the project.	**1**	**07/18/2025**	**6**	
General Decision No. CO20250008 applies to the following counties: El Paso, Pueblo, and Teller counties.				

General Decision No. CO20250008

The wage and fringe benefits listed below reflect collectively bargained rates.

Code	Classification	Basic Hourly Rate	Fringe Benefits	Last Mod
	ELECTRICIAN:			
1199	El Paso, Teller	40.70	18.47	
1200	Pueblo	33.55	15.71	
	POWER EQUIPMENT OPERATOR:			
	Drill Rig Caisson			
1201	Smaller than Watson 2500 and similar	35.20	15.20	
1202	Watson 2500 similar or larger	35.41	15.20	
	Crane			
1203	50 tons and under	35.78	15.20	
1204	51 - 90 tons	35.41	15.20	
1205	91 - 140 tons	37.34	15.20	

General Decision No. CO20250008

The wage and fringe benefits listed below do not reflect collectively bargained rates.

	CARPENTER:			
1206	Excludes Form Work	24.15	6.25	
	Form Work Only			
1207	El Paso, Teller	19.06	5.84	
1208	Pueblo	19.00	5.88	
	CEMENT MASON/CONCRETE FINISHER:			
1209	El Paso, Teller	17.36	3.00	
1210	Pueblo	17.74	3.00	

General Decision No. CO20250008

The wage and fringe benefits listed below do not reflect collectively bargained rates.

Code	Classification	Basic Hourly Rate	Fringe Benefits	Last Mod
1211	**FENCE ERECTOR**	13.02	3.20	
1212	**GUARDRAIL INSTALLER**	12.89	3.20	
	HIGHWAY/PARKING LOT STRIPING:			
1213	Painter	12.62	3.21	
	IRONWORKER:			
	Reinforcing (Excludes Guardrail Installation)			
1214	El Paso, Teller	20.49	1.65	
1215	Pueblo	16.69	5.45	
1216	**Structural** (Excludes Guardrail Installation)	18.22	6.01	
	LABORER:			
1217	Asphalt Raker	17.54	3.16	
1218	Asphalt Shoveler	21.21	4.25	
1219	Asphalt Spreader	18.58	4.65	
	Common or General			
1220	El Paso	17.05	3.69	
1221	Pueblo	16.29	4.25	
1222	Teller	16.88	3.61	
1223	Concrete Saw (Hand Held)	16.29	6.14	
1224	Landscape and Irrigation	12.26	3.16	
1225	Mason Tender - Cement/Concrete	16.29	4.25	
1226	Pipelayer	18.72	3.24	
1227	Traffic Control (Flagger)	9.55	3.05	
1228	Traffic Control (Sets Up/Moves Barrels, Cones, Installs signs, Arrow Boards and Place Stationary Flags), (Excludes Flaggers)	12.43	3.22	
1229	**PAINTER (Spray Only)**	16.99	2.87	

General Decision No. CO20250008

The wage and fringe benefits listed below do not reflect collectively bargained rates.

Code	Classification	Basic Hourly Rate	Fringe Benefits	Last Mod
	POWER EQUIPMENT OPERATOR:			
1230	Asphalt Laydown	22.67	8.72	
1231	Asphalt Paver	21.50	3.50	
	Asphalt Roller			
1232	El Paso	24.42	6.96	
1233	Pueblo	23.67	9.22	
1813	Teller	24.42	6.96	
1234	Asphalt Spreader	22.67	8.72	
	Backhoe/Trackhoe			
1235	El Paso	23.31	5.61	
1236	Pueblo	21.82	8.22	
1237	Teller	23.32	5.50	
1238	Bobcat/Skid Loader	15.37	4.28	
1239	Boom	22.67	8.72	
	Broom/Sweeper			
1240	El Paso, Teller	23.43	8.04	
1241	Pueblo	23.47	9.22	
	Bulldozer			
1242	El Paso	26.56	7.40	
1243	Pueblo, Teller	26.11	6.92	
1244	Drill	17.59	3.45	
1245	Forklift	15.91	4.68	
	Grader/Blade			
1246	El Paso	22.83	8.72	
1247	Pueblo	23.25	6.98	
1248	Teller	23.22	8.72	
1249	Guardrail/Post Driver	16.07	4.41	

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The wage and fringe benefits listed below do not reflect collectively bargained rates.

Code	Classification	Basic Hourly Rate	Fringe Benefits	Last Mod
	POWER EQUIPMENT OPERATOR (con't.):			
	Loader (Front End)			
1250	El Paso	23.61	7.79	
1251	Pueblo	21.67	8.22	
1252	Teller	23.50	7.64	
	Mechanic			
1253	El Paso	22.35	6.36	
1254	Pueblo	24.02	8.43	
1255	Teller	22.16	6.17	
	Oiler			
1256	El Paso	23.29	7.48	
1257	Pueblo	23.13	7.01	
1258	Teller	22.68	7.11	
	Roller/Compactor (Dirt and Grade Compaction)			
1259	El Paso	16.70	3.30	
1260	Pueblo, Teller	18.43	4.62	
1261	Rotomill	16.22	4.41	
1262	Scraper	24.28	4.83	
	Screed			
1263	El Paso, Teller	25.22	5.74	
1264	Pueblo	23.67	9.22	
1265	Tractor	13.13	2.95	

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The wage and fringe benefits listed below do not reflect collectively bargained rates.

Code	Classification	Basic Hourly Rate	Fringe Benefits	Last Mod
	TRUCK DRIVER:			
	Distributor			
1266	El Paso, Teller	17.98	3.97	
1267	Pueblo	18.35	3.85	
	Dump Truck			
1268	El Paso, Teller	16.85	4.83	
1269	Pueblo	16.87	4.79	
1270	Lowboy Truck	17.25	5.27	
1271	Mechanic	26.69	3.50	
1272	Multi-Purpose Specialty & Hoisting Truck	17.27	3.71	
1273	Pickup and Pilot Car	13.93	3.68	
1274	Semi/Trailer Truck	16.00	2.60	
1275	Truck Mounted Attenuator	12.43	3.22	
	Water Truck			
1276	El Paso	17.24	4.15	
1277	Pueblo	20.93	4.98	
1278	Teller	17.31	4.07	

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR 5.5(a)(1)(ii)).

In the listing above, the "SU" designation means that rates listed under the identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

Wage Determination Appeals Process

1) Has there been an initial decision in the matter? This can be:

a) a survey underlying a wage determination
b) an existing published wage determination
c) an initial WHD letter setting forth a position on a wage determination matter
d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to: davisbaconinfo@dol.gov, or by mail to:

Branch of Wage Surveys
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to: BCWD-Office@dol.gov, or by mail to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to: dba.reconsideration@dol.gov, or by mail to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210.

End of General Decision No. CO20250008