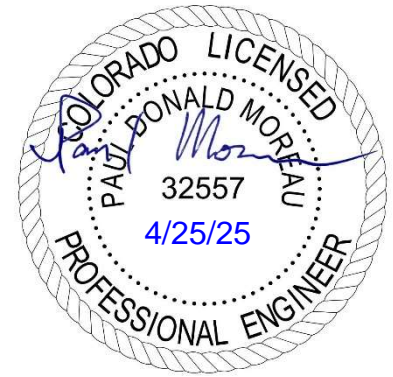


Project No. 195962  
Beacon Lite Road Improvements

**EL PASO COUNTY  
DEPARTMENT OF PUBLIC WORKS  
Beacon Lite Road Improvements Project  
AD Set**

The 2023 Colorado Department of Transportation (CDOT) *Standard Specifications for Road and Bridge Construction* (Standard Specifications) controls construction of this project. The following Project Special Provisions supplement or modify the “CDOT Standard Specifications” and / or the “Pikes Peak Region Asphalt Paving Specifications” and take precedence over the Standard Specifications and construction drawings. A copy of the “Pikes Peak Region Asphalt Paving Specifications” can be obtained from the Contracts & Procurement Division or downloaded from:  
<https://publicworks.elpasoco.com/policies-manuals/>



When specifications or special provisions contain both English units and SI units, the {English} units apply and are the specification requirement.

**PROJECT SPECIAL PROVISIONS**

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**SSP Index 03-21-2025**  
**[For 2023 Spec Book]**

**EL PASO COUNTY**  
**DEPARTMENT OF PUBLIC WORKS**  
**Beacon Lite Road Improvements Project**

The Standard Specifications are hereby modified in accordance with the CDOT Standard Special Provisions listed below and included with this specification package. The Standard Special Provisions have not been modified or formatted from the original versions written by CDOT.

<b>Name</b>	<b>Date</b>	<b>No. of Pages</b>
Revision of Section 101 – Definitions and Section 106 - Control of Materials	(January 8, 2024)	2
Revision of Sections 101 and 106 – Buy America and Build America, Buy America Requirements - No-Federal Aid	(January 8, 2024)	4
Revision of Section 103 – Colorado Resident Bid Preference	(October 1, 2023)	1
Revision of Section 105 – Asphalt Mat Density	(Dec. 26, 2024)	1
Revision of Section 105 – Control of Work	(October 1, 2023)	1
Revision of Section 105 – Dispute Review Board and Claims for Unresolved Disputes	(October 1, 2023)	9
Revision of Section 105 – E-Signature	(January 8, 2024)	1
Revision of Sections 105, 106, 412, and 601 – PCCP Acceptance and Recycled Concrete Aggregate	(Sept. 30, 2024)	15
Revision of Section 106 – Check Testing	(Dec. 26, 2024)	1
Revision of Section 106 – Control of Material	(Sept. 30, 2024)	1
Revision of Section 207 – Topsoil	(October 1, 2023)	9
Revision of Section 208 – As-Constructed Survey	(October 1, 2023)	3
Revision of Sections 208 and 625 – Permanent Water Quality Survey	(April 2, 2024)	2
Revision of Section 212 – Soil Amendments, Seeding, and Sodding	(October 1, 2023)	25
Revision of Section 213 – Mulching	(Sept. 30, 2024)	1
Revision of Section 401 – Plant Mix Pavements – General (Subsection 401.17)	(January 8, 2024)	4
Revision of Section 401 – Plant Mix Pavements – General (Subsection 401.10)	(Sept. 30, 2024)	1
Revision of Section 412 – Powered Screeds	(Dec. 26, 2024)	1
Revision of Section 601 – Concrete Acceptance	(April 9, 2024)	4
Revision of Section 627 – Pavement Marking Paint	(March 21, 2025)	13
Revision of Section 630 – MHT Signature Requirements	(Dec. 26, 2024)	1
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## NOTICE TO BIDDERS

El Paso County Project Engineer – Omar Lopez  
Phone: (719) 216-1696

The above referenced individuals are the only representatives of the Department with authority to provide any information, clarification, or interpretation regarding the plans, specifications, and any other contract documents or requirements.

## COMMENCEMENT AND COMPLETION OF WORK (WORKING DAY)

The services called for shall commence on the date of contract execution by all Parties and shall be completed with 302 Working Days. The time count shall begin upon receipt of Notice to Proceed. A Limited Notice to Proceed may be provided to the Contractor prior to the Notice to Proceed for the purpose of ordering certain materials for the project that may require substantial lead time prior to delivery to the site, permitting and other non-construction tasks. Construction Work shall commence upon Notice to Proceed.

If materials stockpiling begins before the beginning date, contract time will not be charged for the stockpiling effort. Stockpiling of materials before the beginning date is subject to the Engineer's approval. If such approval is given, stockpiled material will be paid for in accordance with Sections 109 and 626.

Asphalt paving shall **not** be performed between **October 15** and **April 15** unless otherwise approved by the Engineer. As temperatures allow, paving outside this window can be accomplished if requested by the Contractor in writing and approved by the Engineer in writing.

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## REVISION OF SECTION 101 DEFINITIONS AND TERMS

Certain terms utilized in the Specifications referred to above shall be interpreted to have different meanings (where applicable) within the scope of this Contract. When used in reference to compliance with laws and regulations, or the source of specifications or drawings, the terms shall retain their original meaning. A summary of redefinitions follows:

The following sections are amended for purposes of identification of the Owner and responsible parties for control of the construction of this project.

**CONTRACTOR MODIFICATION ORDER:** In addition to the definition given in the STANDARD SPECIFICATIONS, the term “Contract Modification Order” shall also include and be synonymous with the term “Change Order”.

**PROJECT ENGINEER:** This term shall mean the El Paso County Engineer, El Paso County Department of Public Works.

**OWNER:** The term “OWNER” shall refer to the El Paso County Department of Public Works, acting through and on behalf of the El Paso County Board of County Commissioners.

Other additional terms that may be utilized in the Standard Specifications shall be interpreted to have different meanings within the scope of this Contract. A summary of redefinitions follows:

- a) “Central Laboratory” shall mean El Paso County, Colorado or their designated representative.
- b) “Chief Engineer” shall mean the El Paso County Engineer or designated representative.
- c) “County” shall mean El Paso County, Colorado.
- d) “Department” shall mean El Paso County, Colorado, Department of Public Works, Engineering Division.
- e) “Department of Transportation” shall mean El Paso County, Department of Public Works, Engineering Division.
- f) “District Engineer” shall mean the County Engineer, El Paso County, Colorado or designated representative.
- g) “Division” shall mean the El Paso County Department of Public Works, Engineering Division.
- h) “Division of Highways, State of Colorado” shall mean El Paso County, Colorado.
- i) “Engineer” shall mean the County Engineer, El Paso County, Colorado, or his designated representative.
- j) “Regional Transportation Director” shall mean the El Paso County Department of Public Works, Engineering Division.
- k) “Staff Construction Engineer” shall mean the County Engineer, El Paso County, Colorado, or his designated representative.
- l) “State, State of Colorado, or State Department of Transportation or CDOT” shall mean El Paso County, Colorado (where applicable).

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REVISION OF SECTION 102  
BIDDING REQUIREMENTS AND CONDITIONS

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

Delete subsection 102.01 Prequalification of Bidders

Delete subsection 102.02 Contents of Proposal Forms

**Subsection 102.05** shall include the following:

3D modeling data is available in Land XML and dwg formats. Available 3D modeling data will consist of survey files and design model files.

The County does not warrant the 3D modeling data and this information is not considered to be a part of the Contract. If bidders use the 3D modeling data in preparing a proposal or planning and prosecuting the Work, it is used at their own risk, and bidders are responsible for all conclusions, deductions, and inferences drawn from the 3D modeling data.

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REVISION OF SECTION 103  
AWARD AND EXECUTION OF CONTRACT

Section 103 of the Standard Specifications is hereby revised as follows:

Add **Subsection 103.05** Contract Duration

The contract will remain open until all Work has been completed and accepted by the County, all permit requirements have been met and all permits have been closed, including but not limited to, the El Paso County Work in the ROW Permit, Erosion & Stormwater Quality Control Permit (ESQCP) and Colorado Discharge Permit System Construction Stormwater Discharge Permit (CDPS-SDP). If agreed upon by the Contractor and the Engineer, the project may be deemed substantially complete, and retainage may be released prior to closing permits, but the Contractor will remain responsible for meeting all permit requirements, including but not limited to, inspections, maintenance, and additional Work as approved by the Engineer, until the permits have been closed. All permits shall remain open until closure is agreed upon by the Contractor and the Engineer.

REVISION OF SECTION 104  
SCOPE OF WORK

Section 104 of the Standard Specifications is hereby revised for this project as follows:

Subsection 104.02 shall include the following:

El Paso County has provided design sheets for the feasible approach to construction traffic control and temporary erosion control. These plans were developed for the primary purpose of providing reasonable estimates of quantities for the purpose of bidding. The Contractor is ultimately responsible for the implementation of construction traffic control and temporary erosion control. The contractor shall submit any proposed changes to the Contract construction traffic control plans or temporary erosion control plans on 11"x 17" sheets for review and approval. Detailed drawings shall identify any staging changes, traffic control changes (changes to the diversion shall include horizontal and vertical detour alignments), environmental impacts, scheduling implications and drainage requirements. Quantity changes shall be included in this submittal. The construction traffic control plans must be signed by a professional engineer registered in the State of Colorado. Erosion Control plans must be prepared by qualified personnel. Allow 10-15 days for review of these documents.

The Contractor will not be reimbursed for any work and materials necessary to prepare these documents and comply with these requirements.

Subsection 104.08 shall be added as follows:

Contractor shall provide all labor, materials, and equipment necessary to complete all work as described in the Memorandum of Agreement (MOA) between property owners and the County. The County will provide the MOA documents to the awarded contractor. Any additional requests from the property owners must be approved by the Engineer or shall be completed at no additional cost to the project.



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REVISION OF SECTIONS 104 AND 105  
PAVEMENT SURFACE COURSE MAINTENANCE

Sections 104 and 105 of the Standard Specifications are hereby revised for this project as follows:

In subsection 104.04, third paragraph, delete the first sentence and replace with the following:

Portions of the roadway that are not included in the contract Work and are outside of 50 feet of the project limits and in El Paso County ROW will be maintained by El Paso County. The Contractor is responsible for snow removal within the project limits, and El Paso County will provide snow removal outside of the project limits.

In subsection 104.04(a), the second paragraph shall be deleted and replaced with the following:

Maintenance requirements will not be paid for separately but shall be included in the Work.

Subsection 105.19 shall include the following:

The Contractor shall be responsible for timely response to complete all surface course maintenance for portions of the roadway that are not included in the contract work within the project limits, including 50 feet of the approach to project and any onsite and offsite detour routes, as required to complete the Work. The Contractor will provide and work with El Paso County to coordinate needed snow removal for portions of the roadway that are included in the contract Work within the project limits as required to complete the Work. These services shall be available upon notice, and provided for at all times, including holidays and seasonal no work periods. The Contractor shall provide these services beginning when time count starts for the project through final acceptance. The Contractor shall submit a Pavement Surface Course Maintenance Plan (PSCMP) to the Engineer for acceptance at the Preconstruction Conference. The PSCMP shall include, but will not be limited to, the following:

- (1) Source of materials to be used for pavement surface course repairs (PSCR).
- (2) Type of materials to be used for PSCR.
- (3) Equipment available to use for PSCR.
- (4) Labor, including names and phone numbers, to perform PSCR.
- (5) Response Time. The Contractor and the traffic control supervisor (TCS) shall respond to the project site within two (2) hours of notification.
- (6) Traffic Control. The Contractor shall perform traffic control as required until completion of the PSCR.
- (7) Pavement Marking. Full compliance pavement markings shall be in place on all PSCRs prior to opening to traffic.

The Contractor shall complete pavement surface course maintenance in accordance with the PSCMP. To implement the PSCMP, the Contractor shall develop and submit a method for handling repairs (MHR) for each different PSCR that shows the Contractor's proposed construction methods consistent with the PSCMP. Each proposed MHR will be approved in writing by the Engineer before the PSCR will be allowed to begin.

PSCRs shall be completed in a timely manner in accordance with the approved PSCMP. Unless otherwise approved, PSCRs shall be completed within twenty-four (24) hours of notification.

Pavement surface course maintenance and snow removal as described above will not be paid for separately but shall be included in the Work.

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REVISION OF SECTION 105  
CONTROL OF WORK

Section 105 of the Standard Specifications is hereby revised as follows:

Delete Subsection 105.04 and replace with 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*.

Delete Subsection 105.05 and replace with the following:

All hot mix asphalt, Item 403, except hot mix asphalt used for patching and temporary pavement, shall be tested for smoothness in accordance with the *Pikes Peak Region Asphalt Paving Specifications, Version 6*.

Delete Subsection 105.09 and replace with the following:

**105.09 Coordination of Plans, Specifications, Supplemental Specifications, and Special Provisions.**

These specifications, the plans, Project Special Provisions, CDOT Standard Special Provisions, and all supplementary documents are essential parts of the Contract, and a requirement occurring in one is as binding as though occurring in all. They are intended to be complementary and to describe and provide for a complete work.

In case of discrepancy the order of precedence is as follows:

- (1) Project Special Provisions
- (2) Project Plans
- (3) Standard Specifications
  - A. *Pikes Peak Region Asphalt Paving Specifications, Version 6*
  - B. CDOT Standard Special Provisions
  - C. *CDOT Standard Specifications for Road and Bridge Construction 2021*
  - D. *El Paso County Engineering Criteria Manual Revision 6*
- (4) Standard Drawings
  - A. *CDOT M&S Standard Plans 2019*

The Contractor shall not take advantage of any apparent error or omission in the Contract. If the Contractor discovers an error or omission, the Contractor shall immediately notify the Engineer. The Engineer will make corrections and interpretations as necessary to fulfill the intent of the Contract.

Subsection 105.10 shall include the following:

The Contractor shall conduct the work so as not to interfere with or hinder the progress or completion of the work being performed by other agencies or Contractors. Traffic Control conflicts that arise between the needs of the various construction Contractors and other agencies, shall be brought to the attention of the Engineer. The Engineer will decide the method of resolution. It is agreed that the Contractors shall coordinate their respective Traffic Control subcontractor resources, MHT's and TC Plans and Phasing elements to assure the most efficient, direct, safe and smooth flow of traffic throughout the entire project work zone(s).

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REVISION OF SECTION 105  
CONTROL OF WORK

Subsection 105.14 shall include the following:

The Contractor shall include the County in all correspondence with other agencies including but not limited to CDOT and utilities and shall not act on any direction from such agencies without concurrence from the County.

Work performed by the Contractor, outside the scope of the project plans and specifications as determined by the County, and not directed by the County, will not be compensated by the County.

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REVISION OF SECTION 105  
AS-CONSTRUCTED DRAWINGS

Subsection 105.02(b) shall include the following:

The Contractor shall coordinate with the Project Inspector to supply the Engineer upon completion, an as-constructed set of drawings showing the locations of items that were changed during construction and any other pertinent information that altered from the construction bid set plans. The changes will be “red-lined” and agreed upon by the Contractor and the Engineer. Costs associated with the as-constructed plans shall be included in the Work.

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REVISION OF SECTION 106  
CONTROL OF MATERIAL

Section 106 of the Standard Specifications is hereby revised as follows:

Delete Section 106.05 and replace with the following:

All hot mix asphalt, Item 403, except hot mix asphalt used for patching and temporary pavement, shall be tested in accordance with the *Pikes Peak Region Asphalt Paving Specifications, Version 6*.

Delete subsection 106.11, Buy America Requirements.

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REVISION OF SECTION 107  
LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC

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

Delete the first paragraph of Subsection 107.02 and replace with the following:

Unless otherwise specified, the Contractor shall procure all permits and licenses; pay all charges, fees, and taxes, including permits procured for this project by others; and give all notices necessary and incidental to the due and lawful prosecution of the work. Copies of the fully executed permits shall be furnished to the engineer upon request. Contractor provided permits may include, but are not limited to:

- General Permit for Stormwater Discharge for Construction Activities (CDPHE)
- Erosion Storm Water Quality Control Permit (El Paso County) (fees waived)
- Demolition Permit (CDPHE)
- Air Pollution Emission Notification (Fugitive Dust Permit) (CDPHE) (typically for projects that are greater or equal to 25 contiguous acres and/or 6 months in duration)
- Construction Dewatering Permit (CDPHE) (as applicable)
- Construction Activity Permit (El Paso County Health Department) (fees waived)
- Work in the ROW Permit (El Paso County) (fees waived)

The Contractor shall comply with all permit provisions and requirements. The costs of these permits will not be paid for separately, but shall be included in the work.

Subsection 107.06(d) Competent Persons shall include the following:

- (20) Traffic Control
- (21) Erosion Control

Subsection 107.07 shall include the following:

All construction activities shall be completed Monday through Friday between the hours of 7:00 am and 7:00 pm or during daylight hours, unless otherwise approved by the Engineer. The Contractor shall not perform any work on Saturdays, Sundays, Holidays and non-working hours on all other days, unless approved by the Engineer. A change in the working hours must be submitted 48 hours in advance for approval by the Engineer. Nighttime construction work will be considered, provided that the Contractor submits request a minimum of 2 weeks prior to the nighttime activities. The submittal shall include a noise mitigation plan identifying the measures to be implemented by the Contractor to mitigate construction noise. Noise mitigation measures will not be measured and paid for separately but shall be included in the Work.

Work that interferes with traffic on holidays or the day before any holiday or holiday weekend will not be permitted. Holidays on which this restriction applies shall be those holidays recognized by the State of Colorado listed in the first paragraph of subsection 101.36.

REVISION OF SECTION 107  
LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC

Subsection 107.10 shall include the following:

The Contractor shall erect, maintain, and remove PPRTA project signs at the construction limits of the project. The signs shall be placed prior to construction activities begin at locations to be determined by the Engineer. The signs will be available for pick up at the El Paso County Department of Public Works' Akers yard at 3275 Akers Drive Colorado Springs, CO 80922. The signs shall remain in place during the entire duration of the project and shall be removed by the contractor once the project is complete. "Project Complete" signs will be installed once the project is substantially complete.

The big PPRTA signs are 4 feet x 6 feet and shall be mounted per CDOT standard S-614. The small, 2 ft. x 3 ft., signs shall be staked in. Once the project is substantially complete the big signs shall be removed and replaced with the small "Completed" signs and shall remain in place for at least 60 days. The "Completed" signs shall be removed by the contractor at the direction of the Engineer.

The PPRTA signs will not be measured and paid for separately but shall be included in the cost of the work. 3 big signs will be placed throughout the project and 3 small "complete" signs will replace them at project completion.

Subsection 107.18 is hereby revised as follows:

For this project, all insurance certificates shall name El Paso County Board of County Commissioners as additionally insured parties, with a 30-day cancellation notification.

Subsection 107.25 (b) 6, shall include the following:

Excavation for construction or installation of stormwater pipes, inlets and manholes may require dewatering. The Contractor shall secure applicable permits and shall submit to the Engineer his proposed dewatering plan and methods in accordance with regulatory and permit requirements. It is not anticipated that any contaminated groundwater will be encountered at this site, however dewatering operations shall be monitored to ensure any evidence of contamination does not exist.

Dewatering operations, including infiltration ponds (if required) shall be included in the cost of the work. Costs associated with analytical work and disposal of contaminated groundwater, if encountered, will be paid for as Force Account under Minor Contract Revisions.

Delete **Subsection 107.25 (c)** and replace with the following:

(c) *Stormwater Construction Permits*. A Colorado Discharge Permit System Construction Stormwater Discharge Permit (CDPS-SDP) will be obtained from CDPHE by the General Contractor. The Contractor shall coordinate with El Paso County (EPC) to become the Operator permittee of the permit upon award of the Contract.

REVISION OF SECTION 107  
LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC

An Erosion & Stormwater Quality Control Permit (ESQCP) will be obtained from El Paso County by the General Contractor. A Stormwater Management Plan (SWMP) and, SWMP Checklist (provided by the Contractor) and Grading and Erosion Control (GEC) Plan, GEC Checklist, PBMP Applicability Form, and Drainage Report/Letter (if applicable) (provided by the Engineer of Record and included in the IFB package) are required to be submitted to EPC for review at least ten (10) calendar days prior to requested issuing of the ESQCP. EPC will not certify the project as Owner for the CDPS-SDP until the ESQCP is issued by the County.

No Work shall begin until the CDPS-SDP permit with Owner and Operator has been approved by CDPHE. A copy of the permit shall be placed in the project SWMP.

The Contractor is legally required to obtain all other permits associated with specific activities within or outside of the right of way, such as borrow pits, concrete or asphalt plant sites, waste disposal sites, or other facilities. Staging areas within a quarter mile, but not within EPC right of way shall be considered a common plan of development and permits for these facilities require permitting in the Contractor's name as Owner and Operator. These permits include local agency, federal, or other stormwater permits. The Contractor shall consult with the Engineer and contact the CDPHE or other appropriate federal, state, or local agency to determine the need for any permit.

To initiate final acceptance of the stormwater construction Work (including seeding and planting required for erosion control), the Contractor shall request in writing, a Stormwater Completion Walkthrough. The Engineer will set up the walkthrough. It will include the Engineer or designated representative, EPC Stormwater Inspector, Superintendent or designated representative, Stormwater Management Plan (SWMP) Administrator, and an EPC Maintenance representative. Unsatisfactory and incomplete stormwater and sediment/erosion control Work will be identified in this walkthrough and will be summarized by the Engineer in a punch list.

The completed action items associated with the corrective Work will be shown as completed on the punch list. Upon completion of all items shown, the Contractor shall notify the Engineer. Upon written agreement that the punch list is completed from the Engineer, the Contractor shall submit a written request to EPC to terminate the ESQCP. Upon termination of the ESQCP, the Contractor shall request to terminate the CDPHE CDPS-SDP.

Until termination of the ESQCP has been approved by EPC and termination of the CDPS-SDP has been approved by the CDPHE, the Contractor shall continue to adhere to all permit requirements. Requirements shall include erosion control inspections, control measure installation, control measure maintenance, control measure repair including seeded areas, and temporary control measure removal. All documentation shall be submitted to the Engineer and placed in the SWMP.

All costs associated with the Contractor applying for, holding, and terminating the ESQCP and CDPS-SDP will not be measured and paid for separately but shall be included in the Work in accordance with subsection 107.02.



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REVISION OF SECTION 107  
LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC

Subsection 107.25 (d) 6, shall include the following:

The project shall require a Colorado Discharge Permit System Stormwater Construction Permit (SCP) and an El Paso County Erosion and Stormwater Quality Control Permit (ESQCP). The contractor shall apply for and obtain the permits upon award of the Contract. A Stormwater Management Plan (SWMP) is required to be submitted to El Paso County for review prior to issuing the ESQCP. The Contractor shall not commence construction until the SCP and ESQCP have been obtained. Copies of the permits shall be placed in the project SWMP notebook.

Subsection 107.26 shall be added as follows:

107.26 Noxious Weed Mediation. The Contractor shall ensure that all equipment moved onto the Project is free of soil, seeds, vegetative matter, or other debris that could contain or hold noxious weed seed. The Engineer may inspect all equipment prior to it being placed into service and may reject equipment that does not meet this specification.

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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. Tree removal will not be paid for separately but shall be included in the price of the work. Tree stumps shall be removed at least 2 feet below the surface of the final slope line.

An estimated 2200 trees that vary in size from approximately 2 inches – 24 inches in diameter is expected.

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.

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## REVISION OF SECTION 202 REMOVAL OF ASPHALT MAT

Subsection 202.02 of the Standard Specifications shall include the following:

Removal of Asphalt Mat consists of removing asphalt to the lines and grades shown on the plans. Areas of asphalt removal are identified on the plans along the entire length of the project.

The contractor shall remove the asphalt mat to the lines shown on the plans. Unless otherwise shown on the plans, the face of the remaining asphalt shall be left at a neat vertical line and is assumed to be used as the front form for the curb and gutter. Where asphalt edges are damaged or jagged, it will be necessary to sawcut and remove additional asphalt at a minimum of 1 foot off the roadway to a neat vertical line and patched with asphalt per the general notes and project specification in Section 403 Hot Mix Asphalt (patching). Upon completion of the asphalt removal, the work shall be inspected and accepted.

Damage that occurs to the neat vertical edge of asphalt following acceptance of the work shall be removed at no additional cost to the project. To remove damaged edge, it will be necessary to saw and remove a minimum of 1 foot of the roadway (as measured from the horizontal control line) to a neat vertical line and patched with asphalt per the general notes and project specification in Section 403 Hot Mix Asphalt (patching).

The removed asphalt shall become the property of the Contractor and shall be disposed of in an appropriate manner outside of the project site.

Subsection 202.11 of the Standard Specifications shall include the following:

Removal of Asphalt Mat will be measured by the area in square yards completed to the required depth and accepted. The assumed depth of existing asphalt shall be 6 inches.

Sawcutting will not be measured and paid for separately, but shall be included in the cost of Removal of Asphalt Mat.

Subsection 202.12 of the Standard Specifications shall include the following:

Unless otherwise specified in the Contract, the disposal of the removed items will not be measured and paid for separately, but shall be included in the work.

Subsection 202.13 of the Standard Specifications shall include the following:

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.

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit</b>
Removal of Asphalt Mat	SY

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REVISION OF SECTION 202  
REMOVAL OF GROUND SIGN

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

Subsection 202.03 Salvable Material shall include:

All removed items designated to remain the property of El Paso County as shown on these plans or identified in these specifications shall be delivered to the El Paso County offices located at 3275 Akers Drive, Colorado Springs, CO, unless otherwise directed by the Engineer. Items identified in the plans as REMOVE SIGN include, but are not limited to: signs and posts.

Subsection 202.13 of the Standard Specifications shall include the following:

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.

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit</b>
Removal of Ground Sign	EA

Project No. 195962  
Beacon Lite Road Improvements

REVISION OF SECTION 208  
EROSION CONTROL

Section 208 of the Standard Specifications is hereby revised for this project as follows:

Subsection 208.01 shall include the following:

Contractor shall submit a basic erosion control sketch/plan to the county project manager for approval prior to beginning any disturbance. Sketch/plan should include: BMPs, staging areas, and stockpiling in accordance with CDOT M&S Standard Plans last revised April 5, 2019, as well as additional details proposed not used by CDOT. County Engineer shall be notified with an updated sketch plan for any changes during construction.

The contractor will implement BMPs, such as aggregate bags, straw wattles, inlet protection at the area inlet, and others as directed by the County Engineer. Installation, maintenance, and removal of erosion control measures and stormwater best management practices (BMPs) are the responsibility of the contractor during the construction duration.

Project No. 195962  
Beacon Lite Road Improvements

REVISION OF SECTION 209  
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.

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Beacon Lite Road Improvements

REVISION OF SECTION 210  
RESET MAILBOX STRUCTURE (SPECIAL)

Section 210 of the Standard Specifications is hereby revised for this project as follows:

Subsection 210.06 shall include the following:

The Contractor shall take care in the removal, storage and installation process involved with the resetting of existing joint use mailbox. Concrete foundation pad shall be a minimum of 48” wide and 48” long with a minimum depth thickness of 4”.

Subsection 202.12 shall include the following:

Concrete pad and incidentals related to the pad shall not be measured or paid for separately but shall be included in the work.

Subsection 202.13 shall include the following:

Payment will be made under:

Pay Item	Pay Unit
Reset Mailbox Structure (Special)	Each

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Beacon Lite Road Improvements

REVISION OF SECTION 210  
RESET STONE SIGN

Section 210 of the Standard Specifications is hereby revised for this project as follows:

Subsection 210.08 shall include the following:

The Contractor shall take care in the removal, storage and installation process involved with the resetting of existing stone, concrete or masonry sign signs used as landscaping or address markers. Signs subject to damage shall be replaced at the Contractor’s expense.

Subsection 202.13 shall include the following:

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit</b>
Reset Stone Sign	EA



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Beacon Lite Road Improvements

REVISION OF SECTION 210  
RESET STONE SIGN (SPECIAL)

Section 210 of the Standard Specifications is hereby revised for this project as follows:

Subsection 210.08 shall include the following:

The Contractor shall take care in the removal, storage and installation process involved with the resetting of existing stone, concrete or masonry sing signs used as landscaping or address markers. Signs subject to damage shall be replaced at the Contractor’s expense.

Subsection 202.12 shall include the following:

Lighting and wiring adjustments shall not be measured or paid for separately but shall be included in the work.

Subsection 202.13 shall include the following:

Payment will be made under:

Pay Item	Pay Unit
Reset Stone Sign (Special)	EA

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Beacon Lite Road Improvements

REVISION OF SECTION 210  
RESET GROUND SIGN

Section 210 of the Standard Specifications is hereby revised for this project as follows:

Subsection 210.07 shall include the following:

The Contractor shall take care in the removal, storage and installation process involved with the resetting of existing signs. Signs subject to damage shall be replaced at the Contractor's expense.

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REVISION OF SECTION 210  
RESET GATE (SPECIAL)

Section 210 of the Standard Specifications is hereby revised for this project as follows:

Subsection 210.04 shall include the following:

The Contractor shall take care in the removal, storage and installation process involved with the resetting of existing motorized gate. Gate parts subject to damage shall be replaced at the Contractor's expense.

Subsection 202.12 shall include the following:

Wiring and installation shall not be measured or paid for separately but shall be included in the work.

Subsection 202.13 shall include the following:

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit</b>
Reset Gate (Special)	LF

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Beacon Lite Road Improvements

REVISION OF SECTION 210  
RELAY RIPRAP (SPECIAL)

Section 210 of the Standard Specifications is hereby revised for this project as follows:

The existing riprap to be relayed shall be cleaned by means and methods determined by the contractor at no additional cost to the project. The riprap shall be cleaned prior to relaying and shall be substantially free of mud and other debris. The contractor shall ensure that environmental and water quality regulations are followed no adjacent areas are damaged. If any area is damaged or disturbed, it shall be restored at the contractor's expense.

Subsection 210.13 shall include the following:

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit</b>
Relay Riprap (Special)	Square Yard

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Beacon Lite Road Improvements

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 roadway edges, and then 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.

COMMON NAME	BOTANICAL NAME	LBS. PLS PER ACRE
Ephram crested wheatgrass	Agropyron cristatum	1.5
Oahe Intermediate wheatgrass	Agropyron intermedium	5.5
Vaughn sideoats gamma	Bouteloua curtipendula	2.0
Lincoln smooth brome	Bromus inermis leyss	3.0
Arriba western wheatgrass	Agropyron smithii	5.5
TOTAL		17.5

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REVISION OF SECTION 401, 403, AND 411  
HOT MIX ASPHALT AND ASPHALT MATERIALS

Sections 401, 403, and 411 of the Standard Specifications are hereby deleted and replaced with the following:

Description, Materials, Construction Requirements, Method of Measurement, and Basis of Payment for asphalt materials shall conform to the *Pikes Peak Region Asphalt Paving Specifications, Version 6*.

Revision of Section 401  
Plant Mix Pavements – General

Section 401 of the Standard Specifications is hereby revised for this project as follows:

Materials, construction requirements, method of payment, and basis of payment for plant mix pavements shall follow the requirements set forth in Version 6 of the Pikes Peak Region Asphalt Paving Specifications unless otherwise specified in these Special Provisions or following approval by the Engineer.

Subsection 401, (a), (2), shall include the following:

Liquid anti-stripping additive submittals shall include all information shown in Version 6, Section 3, of the Pikes Peak Region Asphalt Paving Specifications.

Revision of Section 403  
Hot Mix Asphalt

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

**Subsection 403.02** shall include the following:

The design mix for hot mix asphalt shall conform to the Pikes Peak Region Asphalt Paving Specifications, Version 6 unless otherwise specified in these Project Special Provisions or following approval by the Engineer. The Contractor shall prepare a quality control plan outlining the steps taken to minimize segregation of HMA. This plan shall be submitted to the Engineer and approved prior to beginning the paving operations. If the Engineer determines that segregation is unacceptable, the paving shall stop, and the cause of segregation shall be corrected before paving operations will be allowed to resume.

The materials for hot mix asphalt shall conform to the requirements described in Version 6, Sections 2, 3, and 4 of the Pikes Peak Region Asphalt Paving Specifications unless otherwise specified in these Project Special Provisions or following approval by the Engineer.

Warm Mix Asphalt (WMA) may be allowed on this project in accordance with CP 59. Unique requirements for WMA design, production and acceptance testing shall be submitted and approved prior to any WMA production on the project. Delays to the project due to WMA submittal and review will be considered within the Contractor's control and will be non-excusable.

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Beacon Lite Road Improvements

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REVISION OF SECTION 401, 403, AND 411  
HOT MIX ASPHALT AND ASPHALT MATERIALS

**Subsection 403.03** shall include the following:

The construction requirements shall be as described in Version 6, Section 4 of the Pikes Peak Region Asphalt Paving Specifications unless otherwise specified in these Project Special Provisions or following approval by the Engineer.

The Contractor shall construct the Work such that all roadway pavement placed prior to the time paving operations end for the year, shall be completed to the full thickness required by the plans. The Contractor's Progress Schedule shall show the methods to be used to comply with this requirement.

Delete **Subsection 403.04** and replace with the following:

Hot mix asphalt will be measured as described in Version 6, Section 4 of the Pikes Peak Region Asphalt Paving Specifications unless otherwise specified in these Project Special Provisions or following approval by the Engineer.

Delete **Subsection 403.05** and replace with the following:

**403.05** The accepted quantities of hot mix 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:

<b>Pay Item</b>	<b>Pay Unit</b>
Hot Mix Asphalt (Grading SX)(75)(PG 64-28)	Ton

Aggregate, asphalt recycling agent, asphalt cement, additives, hydrated lime, and all other Work and materials 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, any change to the submitted mix design optimum asphalt cement content to establish production targets will not be measured and paid for separately but shall be included in the Work. No additional compensation will be considered or paid for any additional asphalt cement, plant modifications and additional personnel required to produce the HMA as a result in a change to the mix design asphalt cement content.

The accepted quantities of HMA pavement shall be paid for at the contract unit price for each pavement type and/or thickness listed in the bid schedule. The price will be full compensation, furnishing all materials, preparation, mixing, placing and compaction of these materials and for all labor, equipment, tools, safety edges, and incidentals necessary to complete the Work.

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REVISION OF SECTION 401, 403, AND 411  
HOT MIX ASPHALT AND ASPHALT MATERIALS

The Contractor should anticipate the asphalt cement increases typical of their mixes. Contractors bidding the project should anticipate this change and factor it into their unit price bid.



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Beacon Lite Road Improvements

**REVISION OF SECTION 405  
HEATING AND SCARIFYING TREATMENT**

**Section 405** of the Standard Specifications is hereby revised for this project as follows:

Delete the first sentence of **Subsection 405.03** and replace it with the following:

Weather and temperature limitations shall be as described in Version 6 of the *Pikes Peak Region Asphalt Paving Specifications*.

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Beacon Lite Road Improvements

**REVISION OF SECTION 407  
PRIME COAT, TACK COAT, AND REJUVENATING AGENT**

**Section 407** of the Standard Specifications is hereby revised for this project as follows:

Delete **Subsection 407.09** and replace it with the following:

**407.02 Bituminous Material.** The type and grade of bituminous material used for tack coating will meet the specifications described in Version 6 of the Pikes Peak Region Asphalt Paving Specifications. The bituminous material for prime coating shall meet the requirements of Section 702. The rejuvenating agent shall be accepted before loading into the distributor.

**Subsection 407.09** shall include the following:

Tack coat will not be measured and paid for separately but shall be included in the cost of 403 Hot Mix Asphalt.

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REVISION OF SECTION 607  
FENCE CHAIN LINK (SPECIAL)

Section 607 of the Standard Specifications is hereby revised for this project as follows:

Subsection 607.02 shall include the following:

All materials shall meet the requirements specified in AASHTO M181 except as otherwise noted in the plans and these specifications. The Contractor shall provide certification from the manufacturer that all materials used are in compliance with the requirements of the plans and these specifications.

All material shall be galvanized. When required by the plans the fence shall also be vinyl coated. The color shall be coordinated with the Engineer prior to ordering and fabrication. All exposed materials shall have a uniform coloration. Temporary members and attachments that are to be removed need not be vinyl coated. The inside of pipes shall not be vinyl coated. When the fence is vinyl coated bolts and nuts shall be either vinyl coated or painted to match fence coating. Anchor bolts, threaded rods, anchor studs, post dowels, and other unexposed portions of anchorage assemblies shall be galvanized and not vinyl coated or painted.

The Contractor shall furnish to the Engineer for approval a 300 mm X 300 mm (12" X 12") sample of the fabric (showing the exact coating and fabric construction to be used) and manufacturer's literature covering all aspects of the system he intends to install before ordering or fabricating any parts.

The fabric shall be AASHTO M181 Class C; or, when vinyl coating is specified in the plans, Class B. The mesh and wire sizes shall be as specified in the plans. When 10 mm (3/8") mesh with 2.7 mm (12 gauge) wire is specified in the plans the following properties shall apply.

For other mesh and wire sizes the properties shall be as specified by AASHTO M181.

Mesh:	10 mm (3/8") clear opening
Core wire breaking strength:	2891 N (650 lbs) (minimum)
Core wire diameter:	2.7 mm +/- 0.125 mm (0.105 inch +/-0.005")
Galvanizing, Class C fabric:	366 g/sq. m. (1.2 oz./sq. ft.)
Galvanizing, Class B fabric:	92 g/sq. m. (0.30 oz./sq. ft.)
Vinyl Coating Class B Fabric:	0.20 mm +/-0.05 mm (0.008 inch +/-0.002 inch)

Tension wires shall be AASHTO M181 Type 1 Class 2; or, when vinyl coating is specified in the plans, Type 4.

Tension wires and their fittings shall have a minimum breaking strength of 8540 newtons (1920 pounds).

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REVISION OF SECTION 607  
FENCE CHAIN LINK (SPECIAL)

Truss rods and their fittings shall have a minimum breaking strength of 17080 newtons (3840 pounds) for fences without horizontal members and with a minimum prestress force given by the plans.

Posts and horizontal members shall be standard or extra strong steel pipe, as noted in the plans, satisfying ASTM A53 Type E or S, Grade B ( $F_y = 242 \text{ Mpa}$  (35000 psi)); or, at the Contractor's option, ASTM A466 Grade D pipe (345 Mpa (50000 psi)) minimum yield strength) conforming to the following table may be substituted for both the standard and extra strong pipe of the same outside diameter called for in the plans. All fittings and connections

dependent on the pipe's inside diameter shall be modified as necessary for proper fit-up, as approved by the Engineer.

Nominal Diameter <u>mm (In.)</u>	Outside Diameter <u>mm (In.)</u>	Alternative Pipe	Wall Thickness <u>mm (In.)</u>
		Kg. (Lb.) per <u>Meter (Ft.)</u>	
32 (1.25)	42 (1.660)	2.73 (1.836)	2.82 (0.111)
38 (1.50)	48 (1.900)	3.40 (2.281)	3.05 (0.120)
50 (2.00)	60 (2.375)	4.64 (3.117)	3.30 (0.130)
63 (2.50)	73 (2.875)	6.91 (4.640)	4.06 (0.160)

Stretcher bars, truss rods, tension wires, post tops, and other required fittings and hardware shall be commercial quality steel, or better, or cast or malleable iron as appropriate to the article. A pair of two tension wires with appropriate turnbuckles or other adjustment devices, may be substituted for each truss rod.

Post clips, wire ties, or hog rings shall be galvanized 4.2 mm (9 gauge) or 1.9 mm (14 gauge) (before galvanizing) steel wire, and vinyl coated when specified by the plans. Wire ties shall be given at least one complete turn. Ends of wire ties shall be directed away from traffic.

Subsection 607.03 shall include the following:

For fences without permanent horizontal members and with a minimum prestress force given by the plans, the following shall apply.

The total pretension force in the tension wires and the mesh combined shall not be less than the value shown in the plans. Each tension wire, truss rod, and the mesh should have some pretension and shall not be slack. This is to assure the strength and stiffness of the fence system under the anticipated loads.

The Contractor shall control the quality of the fence tensioning by checking that the deflection of the fence does not exceed the value shown in the plans when the test load described in the plans is applied. The Engineer may choose to assure this quality by observing these tests, or by performing tests of his own. If the deflection is excessive, the Contractor shall retension the fence components.

The temporary horizontal members shall be removed after the tensioning of the fence is accepted.

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Beacon Lite Road Improvements

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REVISION OF SECTION 607  
FENCE CHAIN LINK (SPECIAL)

Subsection 607.04 shall include the following:

Fence Chain Link (Special) (36 Inch) and Fence Chain Link Special will be measured by the linear foot. Measurement will be along the base of the fence from center to center of the extreme end posts.

Subsection 607.05 shall include the following:

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit</b>
Fence Chain Link (Special)(36 Inch)	Linear Foot

Payment per linear foot shall include all costs for a complete installation of anchorages, posts, horizontal members, truss rods, tension wires, fabric, stretcher bars, and ties as required by the plans. All other incidental hardware required will not be measured and paid for separately, but shall be included in the work.

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REVISION OF SECTION 626  
PUBLIC INFORMATION SERVICES  
(TIER II)

Section 626 of the Standard Specifications is hereby revised for this project to include the following:

**DESCRIPTION**

This work consists of providing regular and continuous public information services throughout the duration of the project. Final approval of approach and collateral will be given by the Project Engineer with review by Regional Communications Manager.

**CONSTRUCTION REQUIREMENTS**

- (a) *Public Information Manager (PIM)*. The Contractor shall provide a full-time Public Information Manager (PIM) who shall be the responsible charge for all activities associated with public information services for this project. As part of the key project staff submittal prior to the Preconstruction Conference, the Contractor shall submit the name, contact information and qualifications of the Public Information Manager (PIM) for this project for approval by the Engineer. Experience totaling at least five years professionally in Public/Media Relations, Marketing, or other related fields is suggested for the PIM with an emphasis on good verbal and written communication skills.
- (b) *Activities of the PIM*. Throughout the duration of the project, the PIM shall be responsible for the following:
  - (1) *On Call*. The PIM shall be available on every working day for the project, accessible and on-call by cell phone, and shall be available upon the Engineer's request at other than normal working hours. .
  - (2) *Weekly Project Meetings*. The PIM shall participate in weekly project meetings held on-site. At the meetings, PIM shall discuss weekly communications issues and shall develop strategies to provide timely details for upcoming media advisories/press releases, lane closure reports, website updates and information line recordings.
  - (3) *Public Information Plan*. The PIM shall submit a Public Information Plan (PIP) for approval by the Engineer. The PIP shall include project milestones and planned public information strategies; primary stakeholder communications list; identification of any public information issues and proposed outreach and approach to crisis communications. The PIP shall be updated if necessary based on project milestones and progress.
  - (4) *Public Information Line/Communications*. The PIM shall establish a public information office (PIO) equipped with a telephone and an answering device with the capability to record a message from the caller. This may be a cell phone but must be a local number. The PIO shall be equipped with a computer and email account. The PRM shall record a greeting on the project's published phone line each week, updating the message throughout the week, as necessary, depending on changes in work schedule, activities, and traffic impacts. The recording shall include each week's forthcoming activities including work days, hours, and expected traffic delays, posted detours, project completion date, and office hours. The message shall be approved by the County PM. If unable to answer the public information line, the PIM shall check and respond to voicemail messages throughout each day of construction operations and lane closures are being carried out. The PIM shall check the answering machine at least twice every

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REVISION OF SECTION 626  
PUBLIC INFORMATION SERVICES  
(TIER II)

calendar day, including weekends. The PIM shall respond to callers and email inquiries as soon as possible, but at least within 24 hours.

The PIM shall track inquiries made by citizens and businesses, including names, addresses, phone numbers, and subsequent action taken during construction; these customer inquiries and follow-up action shall be entered into a database, spreadsheet or similar provided by the Contractor. A report shall be provided to All inquiries and complaints shall be followed up with a return phone call or email from either the PIM and, when necessary, the Engineer or Regional Communications Manager.

- (5) *Photos/Video.* The PIM shall take and submit photos/videos of the project work on regular intervals. A cell phone camera is permitted. Photographs/videos shall include identified salient features and other key areas of work as identified by the Contractor, Engineer, or Regional Communications Manager for use in reports to interested agencies, social media, and flyers. A minimum of two digital photographs/videos shall be submitted each month to the Engineer.
- (6) *Media Relations.* At least one week prior to the project start date, the PIM shall prepare a media release summarizing the project scope, construction phasing, potential traffic and construction, duration of project and summary of project benefits. The PIM shall develop additional media releases and traffic advisories based on major construction milestones such as major traffic shifts, key closures, etc.

Media releases & advisories shall be distributed to businesses and communities directly impacted by the work and/or changes to the work through the El Paso County Public Information Office and Public Work's website. The County's Chief Public Information Officer and/or their assigned personnel shall be kept up to date on the Project's status and known inquiries, and will distribute media releases, traffic advisories, and other information. The PIM shall also distribute releases and advisories locally via the methods described below or as requested by the Engineer. Table 626-2 shall be used for all releases and advisories, while Table 626-1 shall be followed by the PIM for responses to any inquiries.

The PIM shall immediately notify the Engineer of any on-site situations involving the media. Should media call, the PIM shall provide only the County Public Information Officer's information. The County will address all media inquiries and requests.

- (7) *Public Meeting.* The PIM shall host one Contractor-hosted in person or telephone town hall public meeting at least two weeks prior to the start of work. Participants shall include the Colorado Department of Transportation, local elected officials, city/county staff, surrounding local agencies and businesses, residents and the traveling public. This meeting shall be held locally at a convenient location that shall accommodate the above attendees. The PIM shall publicize the meeting through multiple means including local media, email, and inserts in local newsletters, flyers, mailers and others. The focus shall be to inform attendees of project plans and schedules and to provide information on how those interested can receive updates on the project (via email address list or Engineer approved system). At the meeting, PIM shall have available for viewing project exhibits that will provide information on work, phasing, traffic impacts, etc. subsequent project meetings may be necessary.

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PUBLIC INFORMATION SERVICES  
(TIER II)

- (8) *Tours and Special Events.* The PIM shall provide media, businesses and government officials tours of the construction areas and to support the coordination of special events (groundbreaking or grand opening or other key milestones). These shall be coordinated by the PIM with the Engineer and Contractor to ensure no disturbance of the Work's timeline and interference with the Project.
- (9) *Lane Closure Reports.* PIM shall submit a Lane Closure Report each Thursday, for the following week's activities (Saturday through Friday), to the contacts listed on the Report and at the end of this specification. Contact the Engineer or Regional Communications Manager for an electronic copy of this report.
- (10) *Web Page Updates.* The PIM shall work with the County to provide an initial description for this project's webpage on the Department of Public Works site, and provide consistent updates with the latest project information. It shall contain all appropriate links to/from other sites if applicable, e.g., local city, county, bus service, etc. The PIM shall ensure the web page is updated at least weekly with pertinent schedule information, traffic advisories or closures, changes to the work, and contact information, following the guidelines of Table 626-3.
- (11) *Project Fliers.* At least 10 working days prior to the start of work, the PIM shall prepare and deliver one flier to each *property* owner potentially impacted by the project's work zone such as properties with direct access to the impacted roadways, nearby businesses, schools, homes, churches or others who rely on regular traffic access in the construction zone. An email containing the flier shall also be sent to all those known to use the project limits having significant or daily use of the roadway contained within the project corridor. Examples of these are bus services, community centers, schools. Additional fliers may be required, as directed by the Engineer, the use of a mailing list from county GIS mapping, or other approved method.

The flier shall provide the anticipated project start and end date, location and description of work, traffic impacts and hours/days of operation, PIM's project information line, email address, web address, project map (if necessary) and a construction safety message as defined by the department. Flier may also contain contractor logo, if desired. Fliers shall be submitted for approval by the Engineer prior to delivery.

*Language Assistance for LEP Persons.* The PIM is required to provide access to Limited English Proficient (LEP) persons. LEP persons are individuals for whom English is not their primary language and who have a limited ability to read, write, speak or understand English. Examples of language assistance include, but are not limited to, translation of meeting notices and interpretation services at meetings. The PIM shall document all measures taken to communicate with LEP persons and record all requests for language assistance.

- (12) *Public Information Collateral.* The PIM shall develop a variety of outreach collateral to share coping information to the public as necessary for major project milestones such as long-term closures or impactful construction activities (i.e. nighttime noise, restricted access, utility impacts, etc). Collateral could include newsletters, fact sheets, flyers, social media updates, etc.
- (c) *Construction Signing.* In accordance with Section 630, a minimum of two weeks prior to start of work, the Contractor shall erect VMS signs at all ends of the project extents, with the estimated dates when the project will commence and end. The signs shall include the Contractor's name and public information contact number.



REVISION OF SECTION 626  
PUBLIC INFORMATION SERVICES  
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- (d) *Response Protocol to CDOT and the public.* The PIM shall conform to Table 626-1 in responding to correspondence from stakeholders and the public:

**Table 626-1**  
**RESPONSE PROTOCOL**

TYPE OF COMMUNICATION	TIMING OF RESPONSE
Hotline Calls	Check messages throughout day  Respond same day (initial call) or within 24 hours (including weekends if work is occurring)
Email	Same day (within two business days for high volume situations)
Call from El Paso County Staff	As soon as possible
Webpage Inquiries	Same day (within two business days for high volume situations)
Public Meeting Inquires	Within one week of the meeting

- (e) *Deliverables Protocol to CDOT.* The PIM shall conform to Table 626-2 in submitting the following for Department review and approval prior to dissemination:

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**Table 626-2**  
**DELIVERABLES AND SUBMITTAL TIME TO EPC ENGINEER**

<b>Deliverable</b>	<b>When to be submitted</b>
PIM Name and Credentials	Before Pre-Construction Meeting (along with key staff submittal)
PIM Contact Information	At Pre-Construction Meeting
Emergency Response Telephone Tree (when required in the Contract)	Before works starts
Local Telephone Hotline	Before works starts
Stakeholder Distribution List (if required for non-work zone flyer recipients and emergency service providers)	At Pre-Construction Meeting
Lane Closure Reports	Weekly, on Thursday by noon
Traffic Advisories/Media Releases	48 hours prior to scheduled distribution date
Fliers, posters or other public material	5 Working Days prior to the scheduled distribution date  In cases of rapid response, 48 hours prior to distribution
Photos/Video	Twice a month or as requested.

- (f) *Deliverable protocols to the public.* The PIM shall conform to Table 626-3 in providing the following information to the public:

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REVISION OF SECTION 626  
PUBLIC INFORMATION SERVICES  
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**Table 626-3**  
**DELIVERABLES AND SUBMITTAL TIME TO THE PUBLIC**

<b>Deliverable</b>	<b>When to be published</b>
Full road closures, detours, and major traffic impacts lasting seven days or longer	14 days prior to the beginning of activity in any area of the Project.
Major project activities (such as major lane shifts, bridge demolitions, etc.) lasting seven days or less	7 days prior to the beginning of the activity
Other remaining types of construction Activities in any area of the Project including: <ul style="list-style-type: none"> <li>▪ Night Work</li> <li>▪ Utilities</li> <li>▪ Change of business/residential access</li> </ul>	7 days prior to the beginning of activity in any area of the Project or as determined jointly by teams
Other construction updates (e.g., cancellation of planned closures, additional lane closures, closure removals, major traffic shifts, etc.) that directly impact the public.	As soon as known with at least 24 hours' notice

(g) *Public Information Contact Sheet.* A Public Information Contact Sheet shall be completed by the PIM with the names of contact as appropriate to the project. This shall include the Engineer and associated County personnel, local agency contacts, key stakeholders, and CDOT Region 2 personnel.

#### METHOD OF MEASUREMENT

The Engineer will monitor the PIM and all public information services. When the PIM provides acceptable public information services in accordance with these specifications, partial payments for the pay item Public Information Services will be made as the work progresses. Failure to provide acceptable public information services will result in withholding of payment for this item. These partial payments will be made as follows:

Partial payments for public information services will be made once each month as work progresses. The monthly partial payments will be determined by pro-rating the lump sum bid amount by the number of months in the actual construction schedule.

#### BASIS OF PAYMENT

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit</b>
Public Information Services (Tier II)	Lump Sum

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PUBLIC INFORMATION SERVICES  
(TIER II)

Payment for Public Information Services will be full compensation for all work, materials and equipment to provide public information throughout the project in accordance with this specification.

Construction Signs will be measured and paid for in accordance with Section 630.

## **REVISION OF SECTION 630 CONSTRUCTION ZONE TRAFFIC CONTROL**

Section 630 of the CDOT Standard Specifications is hereby revised for this project as follows:

### **DESCRIPTION**

Subsection 630.01 shall include the following:

This work includes furnishing, operating, and maintaining a portable message sign panel. They shall be on the project site at least 2 weeks prior to the start of active roadway construction activities. This work shall incorporate the additional specifications within the project special provision entitled TRAFFIC CONTROL PLAN.

### **MATERIALS**

Add subsection 630.031 immediately following subsection 630.03 as follows:

**630.031 Portable Message Sign Panel.** Portable message sign panel shall be furnished as a device fully self-contained on a portable trailer, capable of being licensed for normal highway travel, and shall include leveling and stabilization jacks. The panel shall display a minimum of three - eight character lines. The panel shall be a dot-matrix type with an LED legend on a flat black background. LED signs shall have a pre-default message that activates before a power failure. The sign shall be solar powered with independent back-up battery power. The sign shall be capable of 360 degrees rotation and shall be able to be elevated to a height of at least five feet above the ground measured at the bottom of the sign. The sign shall be visible from one-half mile under both day and night conditions. The message shall be legible from a minimum of 750 feet. The sign shall automatically adjust its light source to meet the legibility requirements during the hours of darkness. The sign enclosure shall be weather tight and provide a clear polycarbonate front cover.

Solar powered message signs shall be capable of operating continuously for 10 days without any sun. All instrumentation and controls shall be contained in a lockable enclosure. The sign shall be capable of changing and displaying sign messages and other sign features such as flash rates, moving arrows, etc.

Each sign shall also conform to the following:

- (1) In addition to the onboard solar power operation with battery back-up, each sign shall be capable of operating on a hard wire, 100-110 VAC, external power source.
- (2) All electrical wiring, including connectors and switch controls necessary to enable all required sign functions shall be provided with each sign.
- (3) Each sign shall be furnished with an operating and parts manual, wiring diagrams, and trouble-shooting guide.
- (4) The portable message sign shall be capable of maintaining all required operations under Colorado mountain-winter weather conditions.
- (5) Each sign shall be furnished with an attached license plate and mounting bracket.
- (6) Each sign shall be wired with a 7-prong male electric plug for the brake light wiring system.

## **CONSTRUCTION REQUIREMENTS**

In Subsection 630.10, delete the first paragraph and replace with the following:

Included in the project documents are conceptualized Traffic Control Plans, “For Information Only”. The Contractor shall be responsible for reviewing this information and the intent of the documents and shall submit detailed plans of the approach to this element of work. Reference is made to the Traffic Control Plan - General project specification, CDOT Standard Specifications, and MUTCD Manuals, latest editions. The Contractor shall prepare and submit a Construction Phasing and Traffic Control Plan (TCP) to El Paso County for approval prior to beginning of construction. The Contractor shall also develop and submit a Method of Handling Traffic (MHT) for each different phase of construction. The key elements of the Contractor's MHT are outlined in Subsection 630.10(a).

Subsection 630.10(b) shall be deleted and replaced with the following:

(b) Transportation Operations Plan (TO). The Contractor shall provide a TO that includes at a minimum the following:

- (1) Procedures to respond to traffic incidents that may occur in the activity area or Work zone required to restore normal project operations. Describe the interface between Fire and Rescue, Public Information, Hazmat, Law Enforcement by Jurisdiction, Courtesy Patrol Services (CSP), etc.
- (2) Contact Lists: Agency Contact Lists, Traffic Control, El Paso County.
- (3) Procedures for coordinating with traffic incident management partners including: The project TCS, construction superintendent, law enforcement, fire and rescue, emergency medical services, public information personnel to support the traffic incident management plan within the corridor.
- (4) Alternative route information and other TO elements that may change during the course of the Work.
- (5) Details of the process to review incidents for the purpose of identifying elements of the TCP needed to reduce the frequency and severity of such accidents if not included in the Project Safety Plan.
- (6) A post incident evaluation report shall be completed by the Contractor and submitted to the Engineer.
- (7) Procedures for these types of incidents if not included in the Project Safety Plan:
  - a. Traffic slowdowns, delays or road closures caused by third party traffic accidents within the corridor not associated with construction activities.
  - b. Traffic slowdowns and delays of 30, 45, and 60 minutes caused by construction traffic ingress and egress or nightly lane closures
  - c. 3rd party property damage as a result of construction activity

Subsection 630.13 shall include the following:

The portable message sign panel shall be on the project site at least 2 weeks prior to the start of active roadway construction. Maintenance, storage, operation, relocation to different sites during the project, and all repairs of portable message sign panels shall be the responsibility of the Contractor.

## **METHOD OF MEASUREMENT**

Subsection 630.17 shall be deleted and replaced with the following:

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Temporary traffic control devices, materials, and equipment including but not limited to waterborne pavement marking paint, barricades, impact attenuators, vertical panels, portable message sign panels, arrow boards, lighting, drum channelizing devices, temporary concrete barrier, temporary pavement, traffic cones, flashing beacons and construction traffic control signs will not be measured and paid for separately but shall be included in the lump sum bid price for Temporary Traffic Control. The actual quantity of devices necessary to construct the project is dependent on the phasing and scheduling developed by the Contractor and the MHTs approved by the Engineer.

The quantity to be measured for Traffic Control Management (TCM) will be the number of authorized 24-hour days of active TCM performed by the TCS or another representative certified as a work site traffic supervisor. Payment will be made for one day of Traffic Control Management regardless of the number of TCSs required to adequately control the work. An authorized 24-hour day of active TCM will be every calendar day on which active traffic control occurs in accordance with an approved MHT. This includes activities such as flagging operation, pilot car operations, and setting up or removal of construction zones, shoulder closures, lane closures or detours. Traffic control devices that are left in place during non-working hours, including configurations such as lane closures, temporary channelization or detours, are not considered active traffic control.

The quantity to be measured for Traffic Control Inspection will be the number of authorized 24-hour days of traffic control inspection (TCI) performed by the TCS or another representative certified as a work site traffic supervisor. An authorized 24-hour day of TCI shall be every calendar day that traffic control devices as shown in the MHT are in use, masked, or turned away from traffic on the project, and the only traffic control activity is the inspection of traffic control devices.

Payment will be made for either Traffic Control Management or Traffic Control Inspection for every calendar day that traffic control devices as shown in the MHT are in use, masked, or turned away from traffic on the project. Payment will not be made for both items for the same calendar day. Work on a night shift that begins before midnight and ends after midnight will be considered as occurring on the calendar day on which the shift ends.

The quantity to be measured for flagging will be the total number of actual flagging hours that are used as authorized in accordance with an approved MHT. Payment will not be made for time spent by flaggers to set up and take down construction traffic control devices or when flaggers are not actually flagging, i.e. "standby".

### **BASIS OF PAYMENT**

Subsection 630.18 shall be deleted and replaced with the following:

Payment for Temporary Traffic Control shall be full compensation for furnishing, erecting, cleaning, maintaining, resetting, repairing, moving, removing, and disposing of construction traffic control devices. All construction traffic control devices that are not permanently incorporated into the project will remain the property of the Contractor.

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit</b>
Temporary Traffic Control	Lump Sum
Flagging	Hour
Traffic Control Inspection	Day
Traffic Control Management	Day
Portable Message Sign Panel	Each

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The following, but not limited to the following will not be measured and paid for separately, but shall be included in the work:

- 1) Electrical power, including batteries, for all temporary lighting or warning devices
- 2) Temporary masking signs, including the covering materials and fastening devices
- 3) Placement, unmasking, removal, and masking of reduced speed limit and double fines signs
- 4) Temporary pavement
- 5) Preparation and implementation of the Traffic Management Plan
- 6) Vehicles necessary for temporary traffic control
- 7) Permitting and necessary forms, including CDOT forms
- 8) Coordination with CDOT and Colorado State Patrol
- 9) Coordination with the Engineer

END OF SECTION REVISION



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## REVISION OF SECTION 702 BITUMINOUS MATERIALS

Section 702 of the Standard Specifications is hereby revised for the project as follows:  
Delete Table 702.01 and replace it with Table 2.05 from Version 6, Section 2, of the Pikes Peak Region Asphalt Paving Specifications.

**TABLE 2.06  
PROPERTIES OF PERFORMANCE GRADED BINDERS**

Property	PG Graded Binder Requirements				AASHTO Test No.
	58-28	64-22	64-28	76-28 <sup>1</sup>	
Original Binder Properties					
Flash Point Temperature, °C, minimum	230	230	230	230	T 48
Viscosity at 135 °C, Pa·s, maximum	3	3	3	3	T 316
Dynamic Shear, Temperature °C, where G*/Sin @ 10 rad/sec ≥ 1.00 kPa	58	64	64	76	T315
Ductility, 4°C (5cm/min) cm, minimum			50		T 51
Toughness, joules, minimum			12.4		CP L-2210 <sup>2</sup>
Tenacity, joules, minimum			8.5		CP L-2210 <sup>2</sup>
RTFO Residue Properties AASHTO T 240					
Mass Loss, percent maximum	1	1	1	1	T 240 CPL 2215
Dynamic Shear, Temperature °C where G*/Sin @ 10 rads ≥ 2.20 kPa	58	64	64	76	T315
Elastic Recovery, 25 °C, percent minimum				50	T-301
Ductility, 4 °C (5 cm/min) cm, minimum			20		T 51
Pressure Aging Vessel Residue Properties, Aging Temperature 100 °C AASHTO R28					
Dynamic Shear, Temperature °C where G*/Sin @ 10 rads ≤ 5000 kPa	19	25	22	28	T315
Creep Stiffness, @ 60 s, test Temp. in °C	-18	-12	-18	-18	T-313
S, maximum, MPa	300	300	300	300	T313
m-value, minimum	0.3	0.3	0.3	0.3	T313

<sup>1</sup> Special grades used for unique loading or climate conditions. <sup>2</sup> CDOT Test Method.

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REVISION OF SECTION 703  
AGGREGATES

Section 703 of the Standard Specifications is hereby revised for the project as follows:

Delete Subsection 703.04 and replace it with Version 6 of the Pikes Peak Region Asphalt Paving Specifications.

Delete Subsection 703.06 and replace it with Version 6 of the Pikes Peak Region Asphalt Paving Specifications.

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REVISION OF SECTION 712  
MISCELLANEOUS

Section 712 of the Standard Specifications is hereby revised for the project as follows:  
Delete Subsection 712.03 and replace it with Version 6 of the Pikes Peak Region Asphalt Paving Specifications.

## REVISION OF SECTION 713 TRAFFIC CONTROL MATERIALS

Section 713 of the Standard Specifications is hereby revised for this project as follows:

Subsection 713.14 (a) shall be revised to include the following:

Material shall meet the requirements of the current edition of the Manual on Uniform Traffic Control Devices for Streets and Highways. The thermoplastic material shall conform to AASHTO designation M249-79 (98).

Subsection 713.14 (b) 1 shall be revised to include the following:

The markings shall be a resilient white or yellow thermoplastic material with uniformly distributed glass beads throughout the entire cross sectional area.

Subsection 713.14 (b) 6, Conformability, shall be added:

6. Conformability. Marking shall be capable of conforming to pavement contours, breaks, and faults etc. Marking shall be capable of withstanding the actions of traffic at normal pavement temperatures. Marking shall have resealing characteristics such that it is capable of fusing with itself and previously applied thermoplastic pavement markings when heated with the torch.

Subsection 713.14 (b) 7, Adhesion, shall be added:

7. Adhesion. Material such as lines, legends, or symbols shall be capable of being affixed to bituminous and/or Portland cement concrete pavements by the use of the normal heat of a propane torch.

The top surface of the stencils (the same side as the factory applied surface beads) shall have an indicator system for the contractor to properly gauge the correct amount of heat to apply during installation. The indicator system shall have a positive visual indication, such as beads changing color or indents closing together, when the material has reached the correct installation temperature. The indicator system must also provide a positive, visual indication if the material has not reached the correct installation temperature.

Subsection 713.14 (b) 8, Retro-reflectance, shall be added:

8. Retro-reflectance. Marking, when applied in accordance with manufactures recommendations, shall demonstrate a uniform level of sufficient night time retro-reflection when tested in accordance to ASTM E1710-97. The applied material must have an initial minimum intensity reading of 500 mcd·m<sup>2</sup>·lx<sup>-1</sup> for white and 300 mcd·m<sup>2</sup>·lx<sup>-1</sup> for yellow as measured with a retro- reflectometer.

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## FORCE ACCOUNT ITEMS

### DESCRIPTION

This special provision contains the Department's estimate for force account items included in the Contract. The estimated amounts marked with an asterisk will be added to the total bid to determine the amount of the performance and payment bonds. Force Account work shall be performed as directed by the Engineer.

### BASIS OF PAYMENT

Payment will be made in accordance with subsection 109.04. Payment will constitute full compensation for all work necessary to complete the item.

Force account work valued at \$5,000 or less, that must be performed by a licensed journeyman in order to comply with federal, state, or local codes, may be paid for after receipt of an itemized statement endorsed by the Contractor.

<u>Force Account Item</u>	<u>Estimated</u>	<u>Quantity</u>	<u>Amount</u>
F/A Minor Contract Revisions*	F.A.		\$265,000.00
F/A Erosion Control*	F.A.		\$ 27,000.00
F/A Post-Construction Erosion Control*	F.A.		\$ 12,000.00

**F/A Minor Contract Revisions:** This work consists of minor work authorized and approved by the Engineer which is not included in the contract drawings or specifications and which is necessary to accomplish the scope of work on the contract.

**F/A Erosion Control:** This work consists of erosion control work during construction authorized and approved by the Engineer if the items included with the Contract are insufficient or if the scope of erosion control exceeds the Contract quantities.

**F/A Post-Construction Erosion Control:** This work consists of minor post construction erosion control work authorized and approved by the Engineer which is not included in the contract drawings or specifications and which is necessary to control erosion after construction is completed.

## TRAFFIC CONTROL PLAN

### General Traffic Control Plan Requirements

The key elements of the Contractor's Method of Handling Traffic (MHT) are outlined in subsection 630.10. The components of the Traffic Control Plan (TCP) for this project are included in the following:

- 1) Subsection 104.04 and Section 630 of the Specifications
- 2) Standard Plan S-630-1, Traffic Controls for Highway Construction
- 3) Traffic Control Phasing and Detour Plan

The following documents shall control the preparation of the MHT Plans and are listed in the order of precedence:

- 1) Plans and Special Provisions for this project
- 2) *Manual on Uniform Traffic Control Devices* (MUTCD)
- 3) El Paso County *Engineering Criteria Manual*
- 4) Colorado Department of Transportation *Standard Specifications*
- 5) Colorado Department of Transportation *M&S Standards*

The Contractor shall notify the following one week prior to the beginning of construction and 48 hours prior to changing traffic patterns:

- 1) El Paso County Department of Public Works – Transportation Division
- 2) Emergency Responders (Fire, Law Enforcement, Ambulance Services, etc.)

The Contractor shall submit, in writing, the proposed MHT for the initial phase of construction. When a different MHT is required for a subsequent construction phase, it must be submitted one week prior to starting that phase. All proposed MHTs shall be approved, in writing, by the Engineer. Approval of the proposed MHT does not relieve the Contractor of liability specifically assigned to him/her under the Contract.

The Contractor shall not perform any work on Saturdays, Sundays, holidays, and non-daylight hours on all other days, unless approved by the Engineer. The Contractor shall request approval to work on these days at least 48 hours in advance.

Work that interferes with traffic on holidays, any day of a three-day or four-day holiday weekend, or the day before any holiday or holiday weekend will not be permitted. Holidays on which this restriction applies shall be those holidays recognized by the State of Colorado listed in the 1<sup>st</sup> paragraph of subsection 101.36.

Access to the Engineer's Field Facilities shall be maintained at all times by the Contractor.

The Contractor shall install construction traffic control devices where they do not block or impede other existing traffic control devices.

The Contractor shall coordinate with property owners at least seven days prior to any construction activities adjacent to or within easements on their property. The Contractor shall maintain access to all private driveways at all times, unless otherwise directed by the Engineer. The Contractor may negotiate temporary closures of access with individual property owners to facilitate various operations, such as paving. All closures shall have written property owner consent and shall be approved in advance by the Engineer.

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The Contractor shall develop an Access Maintenance Plan in coordination with and based on the requirements of the affected property owners and tenants, and submit it to the Engineer. This plan shall detail all barricades, ramps, signs, and temporary means of access required by the property owners or tenants. Five working days prior to commencing any work which affects access to a property, the Access Maintenance Plan for that property must be submitted and incorporated in the MHT.

The Access Maintenance Plan shall include documentation of this coordination, including the approval signature of each affected owner or tenant. Should the Contractor be unable to obtain approval and signatures, documentation of the efforts made to obtain said approval and signatures must be submitted. All access shall be maintained on traversable surfaces approved by the Engineer.

The Contractor's and/or subcontractors' personnel, suppliers, etc. shall not access the work areas by crossing roadways open to traffic unless proper traffic control is provided and approved by the Engineer. Suitable transportation to the work site for personnel whose vehicles are parked off-site shall be provided by the Contractor.

All construction vehicle ingress/egress to the limits of the project shall be along approved routes. Prior to construction, the Contractor shall submit site access plans for approval to the Engineer. Direct access to the work zone from the roadway shall only be permitted when no other approach is available and shall be properly controlled, with adequate auxiliary lanes and traffic control devices. Direct access from multiple, uncontrolled and informal access points shall be prohibited, unless otherwise approved by the Engineer.

All construction vehicles shall be equipped with flashing amber lights. Equipment to be used at night shall also be equipped with flashing amber lights. Flashing amber lights on vehicles and equipment shall be visible from all directions. The Contractor shall not have construction equipment or materials in the lanes open to traffic at any time, unless directed by the Engineer. All personal vehicle parking will be prohibited where it conflicts with safety, access, or the flow of traffic. The Contractor shall not store material or allow personal vehicle parking on private property outside of approved easements unless he/she has obtained written permission from the landowner.

The Contractor shall leave the construction site clean and remove all debris. If the Engineer determines that the Contractor did not exercise reasonable care to protect existing features from unnecessary damage while accomplishing the work, the Contractor shall restore the damaged items to their original condition at no additional cost to the project. The Contractor shall not operate trucks and equipment or store equipment and supplies on private property outside of approved easements unless he/she has obtained written permission from the landowner.

The Contractor shall maintain, at his own expense, that portion of the existing roadway being used to carry traffic so that traffic may readily pass over it.

Traffic lanes through construction areas shall be maintained with a clear width of at least 10 feet per lane. Pavement marking paint may be used for temporary pavement marking. Temporary pavement markings shall be in full conformance with the approved TCP and MHT. Temporary pavement markings shall be in place prior to opening the roadway to traffic. Prior to the start of a subsequent phase, pavement markings from the previous phase shall be removed if they conflict with markings required by the subsequent phase.

The Contractor shall have no vertical drop-off immediately adjacent to traffic, greater than one inch in height, left unprotected. The Contractor shall:

- 1) Place a wedge of material along the edge of any drop-off. The wedge shall consist of stable material placed at a 60-degree or flatter slope. Channelizing devices shall also be used in these circumstances.

OR

- 2) Install concrete barrier (temporary) with a minimum two-foot buffer between the barrier face and the traveled way. An acceptable crashworthy terminal or flared barriers shall be installed at the upstream end of the section. For nighttime use, standard delineation devices must supplement the barriers.

The Contractor is responsible for coordination with all adjacent construction projects to ensure that traffic control devices do not overlap and/or provide conflicting or confusing direction to the traveling public.

The Contractor shall submit the final striping plan if applicable to the Engineer for approval, prior to beginning the work.

During non-construction periods (evenings, weekends, holidays, time-count suspensions, etc.) all work shall be adequately protected to ensure the safety of vehicular and pedestrian traffic. Excavations or holes shall be filled in and surfaced with traversable and maintained gravel or temporary asphalt or fenced when unattended. This will not be measured and paid for separately but shall be included in the work.

All costs incidental to maintenance of access will not be paid for separately, unless otherwise provided, but shall be included in the work. Utilization of materials to be incorporated into the work may be permitted. However, any degradation or other contamination or destruction shall be corrected at the Contractor's expense prior to acceptance.

The Contractor shall provide the Project Superintendent and Traffic Control Supervisor (TCS) with cellular phones for project communication in addition to other communication devices specified in other provisions, as required. All traffic control personnel shall also be equipped with cellular phones or two-way radios to maintain effective communications, as determined by the Engineer. The radios shall have sufficient range to communicate throughout the entire project. Cellular phones shall be provided prior to contract work beginning and will not be paid for separately but shall be included in the work.

All costs incidental to the foregoing requirements, including any additional traffic control items required for haul routes into the project, will not be measured or paid for separately but shall be included in the original pay items for traffic control.

### **Special Traffic Control Plan Requirements**

All construction activities shall be completed Monday through Friday during daytime hours between **7:00 AM and 7:00 PM**. Nighttime construction work, defined as any work outside of this time range, will be considered provided that the Contractor Submits a request to the Engineer a minimum of two weeks prior to the nighttime activities.

The Contractor shall notify the following two weeks prior to the beginning of construction and driveway closures; and 48 hours prior to changing traffic patterns:

- 1) El Paso Count Department of Public Works – Transportation Division
- 2) El Paso County Sheriff
- 3) Tri-Lakes Monument Fire Protection District
- 4) Property owner(s) directly affected by the construction or driveway closure



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UTILITIES

Known utilities within the limits of this project are:

Utility Contacts - Beacon Lite Road Improvements				
Company	Type	Contact	Phone	email
Black Hills Energy	Gas	Bob Swatek	719-332-5856	<a href="mailto:Bob.Swatek@blackhillscorp.com">Bob.Swatek@blackhillscorp.com</a>
Comcast	Fiber	Steven Creighton Tod Bell	719-313-1567	<a href="mailto:Steven_Creighton@comcast.com">Steven_Creighton@comcast.com</a> <a href="mailto:Tod_Bell@comcast.com">Tod_Bell@comcast.com</a>
Century Link	Fiber	Larry D Gurule Matt Schaad Andrew Hekkers	719-369-6259 719-355-7346	<a href="mailto:Larry.Gurule@lumen.com">Larry.Gurule@lumen.com</a> <a href="mailto:matthew.schaad@lumen.com">matthew.schaad@lumen.com</a> <a href="mailto:Andrew.Hekkers@centurylink.com">Andrew.Hekkers@centurylink.com</a>
CORE Electric	Electric	Shannon Kasper	720-733-5484	<a href="mailto:skasper@core.coop">skasper@core.coop</a>
Mountain View Electric Association	Electric	Sarah Shaefer Les Ulfers	719-495-2283 719-433-6194	<a href="mailto:Sarah.s@mvea.coop">Sarah.s@mvea.coop</a> <a href="mailto:Les.u@mvea.coop">Les.u@mvea.coop</a>
Town Of Monument Water	Water	Tom Tharnish	719-884-8039	<a href="mailto:ttharnish@tomgov.org">ttharnish@tomgov.org</a>
Monument Sanitation District	Sanitary Sewer	Mark Parker	719-481-4886	<a href="mailto:parker@msan.co">parker@msan.co</a>
Zayo	Fiber	James Black	719-216-8508	<a href="mailto:Jamesr.black@zayo.com">Jamesr.black@zayo.com</a>

The Contractor shall coordinate with the County and any appropriate utility company to facilitate the installation, placement, and relocation of all utilities impacted on this project.

The location of utility facilities as herein described, was obtained from the best available information.

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 Contractor shall coordinate the work with the owners of the utilities within the project limits. Coordination with utility owners includes, but is not limited to, staking construction features, providing and periodically updating an accurate construction schedule which includes all utility work elements, conducting necessary utility coordination meetings, applying for and obtaining power or communication services in the name of the County, and all other necessary accommodations as directed by the Engineer. Surveying and / or staking of utility relocations to be performed by the owner shall be the responsibility of the utility owner.

Prior to excavating or performing any earthwork operations, the Contractor shall positively locate all existing underground utilities relocated prior to construction, as determined by the Contractor according to proposed methods and schedule of construction. Please note that UNCC marks only its members facilities. Other facilities, such as ditches and drainage pipes and CDOT's fiber optic system may exist, and it is the Contractor's responsibility to investigate, locate, and avoid such facilities. The Contractor shall pothole all of the listed previously relocated utilities prior to starting any underground or earthwork well in advance of the work so that the utility companies can be given the required confirmation that no conflicts exist. 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. IF Conflicts exist, 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

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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 Contractor shall plan his work to protect and maintain the existing electric, gas, and communications lines within the project limits. This may require potholing to confirm the depths of existing facilities before proceeding with excavation or grade changes associated with the revised vertical profile or proposed storm sewer. The Contractor shall clear and grub, remove existing obstacles, rough grade to the approximate finished grades, and survey and stake ROW and easements for those areas intended for relocation of utilities as required to facilitate utility relocations. The Contractor shall keep each utility company advised of any work being done to their facilities, so that each utility company can coordinate their inspections for final acceptance with the Engineer.

The Contractor will comply with any special construction or safety requirements of each utility company as it may affect their work. The Contractor shall protect existing utilities in the vicinity and coordinate any required adjustments with the impacted utility company.

Damage to utilities due to poor or missed locates shall be repaired by the contractor causing the damage; it is the sole responsibility of the Contractor to take whatever means are necessary to locate and protect utilities including but not limited to potholing.

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

### **Beacon Lite Road Related Work:**

#### **Work Performed by the Contractor**

1. Adjust Manhole – Contractor shall adjust manhole rim elevations in Beacon Lite Road and Wakonda Way per the utility owner specifications listed below.

#### **Work Performed by Utility Owner or their Agents**

The work listed below will be performed by the Utility Owners or their Agents Prior to construction. Work that is anticipated to be complete prior to mobilization by the County Contractor are marked with *[Expected Complete]*. The County Contractor shall coordinate construction with utility providers or their agents prior to construction. Coordination will be considered incidental to the project and shall not be paid for separately.

##### **(A) Mountain View Electric Association (MVEA)**

1. Mountain View Electric Association has an overhead electric line on the west Beacon Lite Road south of Wakonda Line. The pole on southwest corner of Beacon Wakonda will need to be reset at a higher elevation during construction due to the fill slopes extending on the pole. This work shall be performed by MVEA.
2. Overhead lines then run west down Wakonda beyond the project limits. Overhead lines rejoin Beacon Lite north of the curve realignment near Station 28+00 and crosses onto the east side of Beacon Lite and continues up to Station 42+00. Several poles will need to be relocated east and set at finished grade beyond the proposed ditch and within proposed ROW. Contractor shall set finished grade while keeping existing poles in place. Contractor shall coordinate with MVEA during construction to set new poles, relocate lines, and remove existing poles.

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3. Near the water tank, Sta. 42+00 to 48+00, the Contractor shall coordinate with MVEA to temporarily move lines offsite during construction of large cut slopes. Proposed poles will be placed when finished grade is set.
4. North of the water tank, Sta 48+00 to 56+00, several poles will need to be relocated east and set at finished grade within proposed/existing ROW. Contractor shall set finished grade while keeping existing poles in place. Contractor shall coordinate with MVEA during construction to set new poles, relocate lines, and remove existing poles.
5. Maintain minimum 21 feet clearance to all overhead electric lines. Contractor shall notify contractor of substandard clearance locations.
6. See utility plans, utility crossing matrix, and pothole log for more information.

## (B) Zayo

1. Zayo shall perform the Phase 1 boring upon completion of phase 1 ROW acquisition. Boring shall extend into Phase 2 along the east side of Beacon Lite Road to the handhole located at approximately STA 62+00. Zayo line south of 62+00 consists of 2, 1.5" PVC conduits and are deep enough not to be impacted by roadway grading or storm sewer installation activities. Existing handholes shall be adjusted to finished grade by Zayo during constructions. Contact Zayo 5 days prior to impacts to coordinate handhole adjustment.
2. Maintain 18" clearance between existing/proposed lines and proposed storm sewer facilities.
3. See utility plans, utility crossing matrix, and pothole log for more information.

## (C) Black Hills Energy (BHE)

1. Black Hills Energy has a 2" PVC lines running the entire project limits on the west side of Beacon Lite Road and the south side of Wakonda Way. BHE shall place a new line during construction. Proposed gas line shall be placed per the plans beyond the proposed ditch in rural areas, or behind the curb and gutter in urban areas. Contractor shall coordinate with BHE as necessary during construction.
2. Existing gas meters shall be relocated to the residences prior to construction.
3. Maintain 18" clearance between existing/proposed lines and proposed storm sewer facilities.

## (D) Century Link

1. Existing CenturyLink/Lumen communication and fiber optic lines are present on the west side of Beacon Lite Road for the majority of the project. Existing lines as shown on the plans shall be adjusted in place by Century Link during construction. Contractor shall coordinate with Century Link during construction.
2. The large cut area near the water tank, Sta. 42+00 to 48+00 will require temporary relocations. Coordination during construction is required.
3. Maintain 12" clearance between existing/proposed lines and proposed storm sewer facilities. Less than 12" clearance may be allowed with Century Link approval.

4  
UTILITIES

4. Century Link is currently working with MVEA to potentially share overhead utility poles south of the water tank. Contractor coordination is required during construction.

(E) Comcast

1. Existing Comcast line shares overhead utility poles with MVEA from the south end of the project up to the water tank, Sta. 46+00, and will be relocated in conjunction with MVEA electric lines. Contractor coordination is required.
2. North of the water tank, the existing fiber optic line on the east side of Beacon Lite Road will be bored outside of the proposed pavement limits to a depth deep enough to avoid conflicts with construction activities.
3. Contractor to stake proposed fiber optic alignment, finished grade, and utility conflict points prior to construction. Utility staking will not be paid separately but shall be included in pay item 625-00000 Construction Surveying.

(F) Town of Monument Water

1. Water lines within Beacon Lite Road to be relocated during construction. Proposed design shown on the plans is approximate and will be designed by others. Proposed water line features such as manholes, gate valves, hydrants, etc. are not shown. See water plans (by others) for more information. Active water lines must remain functional during construction unless otherwise approved by the Town of Monument.
2. Town of Monument is planning to construction a new water tank east of the existing water tank and demolish the existing water tank prior to construction.
3. A future water line within Beacon Lite Road north of the tank is shown for information only. Timing of future water line is unknown.
4. Contractor coordination during construction is required.

(G) Monument Sanitation District

No impacts to the sanitary sewer line are anticipated as part of this project. Adjustments to manholes in Beacon Lite Road and Wakonda Way are anticipated. Adjustments shall be performed by the contractor to the following specifications:

1. No work shall be accomplished on Monument Sanitation District (MSD) facilities without first coordinating the work activity a minimum of 48-hours in advance.
2. All work on MSD facilities shall be done in accordance with the MSD Sewer Use Regulations.
3. All manholes must have a cast iron casting (ring) and cover meeting the following requirements:
  - a. Cast iron castings must be a minimum of 4-inches in height.
  - b. The combined weight of the casting and cover must be a minimum weight of 310 lbs.
  - c. The clear opening of the cover shall be a minimum of 22-inches.
  - d. In asphalt streets all manhole covers shall be placed ¼" below finished grade

## 5 UTILITIES

4. All manholes shall be placed to accommodate a minimum of two (2) 2-inch precast concrete adjusting rings and are limited to a maximum of six (6) 2-inch precast concrete adjusting rings.
5. The adjusting rings shall be centered over the cone section opening and encased in a minimum 6-inch thick concrete collar all around.
6. To accommodate the lowering of a manhole, it may be required to remove and/or substitute in precast concrete barrel sections under the cone section. If a modification is required, the following should be followed:
  - a. The casting, cover and cone section should be removed and if in good condition and, if approved by the MSD Manager, reinstalled.
  - b. Depending on the existing barrel section below the cone section, remove and substitute in barrel section(s) as necessary to meet the adjusting ring requirements noted above.
  - c. All new barrel sections must receive a waterproof coating of DISSCO 521 coating or an approved equal.
  - d. All barrel section joint's, including the cone section joint, must be cleaned and a 12" wide external joint wrap shall be placed meeting the requirements of Henry Company Sealants "RUB'R-NEK" or an approved equal.
7. Backfilling and compaction shall be accomplished around the manhole to preclude settling.