

TOWN OF BENNETT
SPECIAL PROVISIONS

All work required for the project shall be in accordance with the latest edition of the COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) Standard Specifications for Road and Bridge Construction, the CDOT M&S Standards. The 2019 Standard Specifications for Road and Bridge Construction controls construction of this project. The following special provisions supplement or modify the Standard Specifications and take precedence over the Standard Specifications and plans. When specifications or special provisions contain both English units and SI units, the English units apply and are the specification requirement.

PROJECT SPECIAL PROVISIONS

<u>Index Pages</u>	<u>Date</u>	<u>Page</u>
Notice to Bidders	(August, 2021)	1 - 2
Commencement and Completion of Work	(August, 2021)	3
Revision of Section 107 – Performance of Safety Critical Work	(August, 2021)	4
Revision of Section 107 – Protection of Existing Vegetation	(August, 2021)	5-6
Revision of Section 210 – Reset Ground Sign (Special)	(August, 2021)	7
Revision of Section 613 – Electrical Conduit	(August, 2021)	8
Revision of Section 613 – Pull Boxes	(August, 2021)	9-10
Revision of Section 613 – Electrical Conductor Identification	(August, 2021)	11
Revision of Section 630 – Portable Message Sign Panel	(August, 2021)	12
Force Account Items	(August, 2021)	13-14
Traffic Control Plan - General	(August, 2021)	15
Utilities	(August, 2021)	16-17
		18-20

TOWN OF BENNETT
 SPECIAL PROVISIONS
 SH 79 / MARKETPLACE TRAFFIC INTERSECTION & SIGNAL DESIGN PROJECT
 CDOT STANDARD SPECIAL PROVISIONS

Name	Date	No. of Pages
Revision of Section 101 – Holidays	(September 17, 2020)	1
Revision of Section 101 – Record Set	(January 20, 2021)	1
Revision of Section 102 – Interpretation of Plans and Specifications	(December 28, 2020)	1
Revision of Section 103 – Award and Execution of Contract	(September 18, 2020)	1
Revision of Section 104 – Scope of Work	(January 20, 2021)	1
Revision of Section 105 – Control of Work (105.02 b)	(January 20, 2021)	2
Revision of Section 105 – Control of Work (105.02 f)	(December 28, 2020)	1
Revision of Section 105 – Control of Work (105.03)	(January 20, 2021)	2
Revision of Section 105 – Control of Work (105.08)	(January 20, 2021)	1
Revision of Section 106 – Control of Material	(January 20, 2021)	1
Revision of Section 106 – Buy America Requirements – Non-Federal Aid	(October 1, 2019)	1
Revision of Section 106 – Country of Origin	(October 1, 2019)	1
Revision of Section 107 – Legal Relations and Responsibility to the Public	(January 20, 2021)	1
Revision of Section 107 – Project Safety Management Plan	(April 13, 2020)	1
Revision of Section 107 – Water Quality Control under One Acre	(December 29, 2020)	4
Revision of Section 109 – Asphalt Cement Cost Adjustment	(January 27, 2020)	3
Revision of Section 206 – Excavation and Backfill for Structures	(January 20, 2021)	1
Revision of Section 208 – Erosion Control 208.10 (b)	(January 20, 2021)	1
Revision of Section 212 – Soil Amendments, Seeding, and Sodding	(July 9, 2020)	18
Revision of Section 250 – Environmental Health and Safety	(January 20, 2021)	1
Revision of Section 401 – Plant Mix Pavements	(October 1, 2019)	1
Revision of Section 502 – Piling	(January 20, 2021)	1
Revision of Section 503 – Drilled Shafts	(January 20, 2021)	1
Revision of Section 504 – Walls	(January 20, 2021)	2
Revision of Section 509 – Steel Structures	(January 20, 2021)	1
Revision of Section 601 – Concrete Mix Designs	(January 13, 2020)	1
Revision of Section 601 – Structural Concrete	(December 28, 2020)	1
Revision of Section 613 – Lighting	(September 18, 2020)	10
Revision of Section 618 – Prestressed Concrete	(January 20, 2021)	1
Revision of Section 625 – Construction Surveying	(October 1, 2019)	2
Revision of Section 625 – Construction Surveying (e-sealing)	(January 20, 2021)	1
Revision of Section 629 – Survey Monumentation	(January 20, 2021)	1
Revision of Section 630 – Construction Zone Traffic Control	(December 28, 2020)	1

NOTICE TO BIDDERS

The proposal guaranty shall be a certified check, cashier's check, or bid bond in the amount of 5 percent of the Contractor's total bid.

Pursuant to subsections 102.04 and 102.05, it is recommended that bidders on this project review the work site and plan details with an authorized Town representative. Prospective bidders shall contact one of the following listed authorized Town representatives at least 12 hours in advance of the time they wish to go over the project.

Town of Bennett Project Manager - Daymon Johnson

Office Phone: (303) 644-3249 ext. 1005

Project Engineer -

Dan Giroux

Office Phone: (303) 644-3249

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

Questions received from bidders along with Town of Bennett responses will be emailed to and from the Town of Bennett Project Manager below as they become available.

djohnson@bennett.co.us

If the bidder has a question or requests clarification that involves the bidder's innovative or proprietary means and methods, phasing, scheduling, or other aspects of construction of the project, the Project Engineer will direct the bidder to contact the Town Project Manager directly to address the question or clarification. The Town Project Manager will keep the bidder's innovation confidential and will not share this information with other bidders.

The Town Project Manager will determine whether questions are innovative or proprietary in nature. If the Town Project Manager determines that a question does not warrant confidentiality, the bidder may withdraw the question. If the bidder withdraws the question, the Town Project Manager will not answer the question and the question will not be documented on the Town of Bennett web site. If the bidder does not withdraw the question, the question will be answered, and both the question and Town of Bennett answer will be posted via an email. If the Town Project Manager agrees that a question warrants confidentiality, the Town Project Manager will answer the question, and keep both question and answer confidential. Town of Bennett will keep a record of both question and answer in their confidential file.

All questions shall be directed to the Town of Bennett contacts listed above no later than 7:00 A.M. Monday of the week of bid opening. Final questions and answers will be posted no later than Tuesday morning of bid opening week.

Questions and answers shall be used for reference only and shall not be considered part of the Contract.

COMMENCEMENT AND COMPLETION OF WORK

The Contractor shall commence work under the Contract on or before the 5th day following Contract execution or the 20th day following the date of award, whichever comes later, unless such time for beginning the work is changed by the Town of Bennett Project Manager in the "Notice to Proceed." The Contractor shall complete all work within **60 Working Days**, in accordance with the "Notice to Proceed."

Salient features to be shown on the Contractor's Progress Schedule are:

1. Mobilization
2. Method of Handling Traffic, Temporary Construction Signing & Traffic Control
3. Erosion/Sediment Control; Install Inlet Protection & BMPs per SWMP w/ECS
4. Grading
5. Caisson Installation
6. Signal Pole and Luminaire Installation
7. Survey
8. Utilities
9. Environmental
10. Removals
11. Paving
12. Storm Sewer
13. Sidewalk
14. Clean Up/Punch List

**REVISION OF SECTION 107
PERFORMANCE OF SAFETY CRITICAL WORK**

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

Subsection 107.061 is hereby added to this project as follows:

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

- (1) Overhead structure construction or repair
- (2) Work requiring the use of cranes or other heavy lifting equipment to set girders, sound walls, make overhead repairs; also when construction materials are being lifted that may fall onto active traffic lanes.
- (3) Caissons and/or directional boring in high density utility corridor.

The Contractor shall submit, for review, an initial, detailed construction plan that addresses safe construction methods for each of the safety critical elements applicable to this project. The Engineer will submit the plans to Town of Bennett for a concurrent review. The Engineer's review will be for general conformance with the plans, specifications, best management practices regarding safety of the operation and industry standards. When the specifications already require an erection plan, a bridge removal plan, or a removal of portion of bridge plan, it shall be included as a part of this plan. The detailed construction plan shall be submitted two weeks prior to the safety critical element conference described below. The construction plan shall be stamped "Approved for Construction" and signed by the Contractor. The construction plan will be reviewed for acceptance by the Engineer.

The Construction Plan shall include the following:

- (1) Safety Critical Element for which the plan is being prepared and submitted.
- (2) Contractor or subcontractor responsible for the plan preparation and the work.
- (3) Schedule, procedures, equipment, and sequence of operations, that comply with the working hour limitations.
- (4) Temporary work required: falsework, bracing, shoring, etc.
- (5) Underground, above grade, and overhead utilities identification and protective steps taken.
- (6) Communication plan as necessary with stakeholders, media, and the public.
- (7) Additional actions that will be taken to ensure that the work will be performed safely.
- (8) Names and qualifications of workers who will be in responsible charge of the work:
 - A. Years of experience performing similar work
 - B. Training taken in performing similar work
 - C. Certifications earned in performing similar work
- (9) Names and qualifications of workers operating cranes or other lifting equipment
 - A. Years of experience performing similar work
 - B. Training taken in performing similar work
 - C. Certifications earned in performing similar work

-2-

**REVISION OF SECTION 107
PERFORMANCE OF SAFETY CRITICAL WORK**

- (10) The construction plan shall address how the Contractor will handle contingencies such as:
 - A. Unplanned events (storms, traffic accidents, work accidents, etc.)
 - B. Structural elements that don't fit or line up
 - C. Work that cannot be completed in time for the roadway to be reopened to traffic
 - D. Replacement of workers who don't perform the work safely
 - E. Unexpected absence of critical management team
 - F. Equipment failure
 - G. Other potential difficulties inherent in the type of work being performed
- (11) Name and qualifications of Contractor's person designated to determine and notify the Engineer in writing when it is safe to open a route to traffic after it has been closed for safety critical work.
- (12) Erection plan or bridge removal plan when submitted as required elsewhere by the specifications. Plan requirements that overlap with above requirements may be submitted only once.

A safety critical element conference shall be held two weeks prior to beginning construction on each safety critical element. The Engineer, the Contractor, the safety critical element subcontractors, and the Contractor's Engineer shall attend the conference. Required pre-erection conferences or bridge removal conferences may be included as a part of this conference. Communications staff (Contractor or Town of Bennett) shall also attend in order to address any public/media needs.

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

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

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

When ordered by the Engineer, the Contractor shall remove workers from the project that are performing the safety critical work in a manner that creates an unsafe situation for the public in accordance with subsection 108.06.

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

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

The Contractor shall not be relieved from ultimate liability for unsafe or negligent acts or receive a waiver of the Colorado Governmental Immunity Act on behalf of the Town.

August 25, 2021

REVISION OF SECTION 107
PROTECTION OF EXISTING VEGETATION

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

Subsection 107.12 shall include the following:

Orange Fencing is not called out in the plans. Therefore, the reference to orange fencing was removed.

The Contractor shall save all existing vegetation (including trees, shrubs, ground covers, grasses, wetlands & riparian) in this area, except for that vegetation, which must be removed to accommodate construction of the project, per the plans. Equipment shall not be installed or stockpile material within 15 feet of existing trees to remain.

The Contractor shall perform all the work in such a manner that the least environmental damage will result. All questionable areas or items shall be brought to the attention of the Engineer for approval prior to removal or any damaging activity.

The Contractor shall promptly report any vegetation damaged or scarred during construction to the Engineer for assessment of damages. Damaged or destroyed fenced vegetation, shall be replaced at the expense of the Contractor. Vegetation of replaceable size shall be replaced at the Contractor's expense. When trees, shrubs beyond replaceable size or wetlands have been damaged or destroyed, the Contractor shall be liable for the appraised value based upon the official current publications. For trees and shrubs use the International Society of Arboriculture, Guide for Plant Appraisals. The Contractor shall pay any fines or jail time should a wetland be damaged, at no cost to the project. The value of disturbed vegetation shall be calculated according to the following formula:

$$(\text{Vegetation size}) \times (\text{Species}) \times (\text{Location}) \times (\text{Condition}) \times (\text{Arborist or Wetland Specialist}) = \text{Vegetation value}$$

A consulting Arborist retained by the Town will determine the value of the trees and shrubs. A consulting Wetland Specialist shall determine the value of the wetland or wetland species. This value will be deducted from any money due to the Contractor.

The determination as to whether a plant is of replacement size or beyond will be made by the Town's Landscape Architect or Wetland Specialist.

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

REVISION OF SECTION 210
RESET GROUND SIGN (SPECIAL)

**Section 210 of the Standard Specifications is hereby revised for this project as follows:
Subsection 210.07 shall include the following:**

Including commercial signs to be reset in kind, with any necessary foundation or installation required.

Method of Payment

Subsection 210.13 shall include the following:

Payment will be made under:

Pay Item	Pay Unit
Reset Ground Sign (Special)	Each

REVISION OF SECTION 613
ELECTRICAL CONDUIT

Section 613 of the Standard Specifications is hereby revised for this project as follows:

Subsection 613.01 shall include the following:

This work includes furnishing and installing either HDPE or PVC electrical conduit. All materials furnished, assembled, fabricate and installed under this item shall be new, corrosion resistant and in strict accordance with the plan sheets and these Special Provisions.

Subsection 613.07 shall include the following:

All conduit shall be Schedule 80 in the diameters, quantities and colors as shown on the project detail sheet and shall be compliant with all ASTM and Bellcore TW-NWT-000356 requirements.

All HDPE conduit shall be factory lubricated, low friction, high-density conduit constructed of virgin high-density polyethylene resin. Conduit shall be capable of being coiled on reels in continuous lengths, transported, stored outdoors, and subsequently uncoiled for installation, without affecting its properties or performance.

All conduit shall be certified by the manufacturer as meeting ANSI/UL 6, 651, or 651A. The manufacturer shall be ISO 9000 compliant.

Electrical Conduit (Bored) shall be HDPE and installed using a trenchless technology of directional boring.

Electrical Conduit (Plastic) shall be PVC or HDPE and installed by direct burial methods such as plowing, open trenching, or other excavation methods.

Each individual conduit shall be equipped with a pull tape as described below. Each bore/trench shall have a copper tracer wire of at least 12 gauge in one of the conduits. In trenches containing multiple conduits, the tracer wire shall not be installed in the same conduit as the fiber.

Each individual conduit shall be equipped with pull tape. The pull tape shall have a minimum tensile strength of 1800 lbs. and be of a design and manufacture that prevents cutting or burning into the conduit during cable installation.

The installation of conduit shall be performed in such a manner as to avoid unnecessary damage to streets, sidewalks, utilities, landscaping, and sprinkler systems. Excavations and conduit installation shall be performed in a continuous operation. All trenches shall be backfilled by the end of a shift. The material from trenching operations shall be placed in a location that will not cause damage or obstruction to vehicular or pedestrian traffic or interfere with surface drainage.

The Contractor shall take all necessary precautions to avoid heaving any existing asphalt/concrete mat or over-excavating a trench, whether caused by equipment directly or by dislodging rocks and boulders. Any such heaving or over-excavation shall be repaired or replaced at the Contractor's expense. The Contractor shall bear the cost of backfilling all over-excavated areas with the appropriate backfill material as approved by the project engineer.

Conduit plugs shall be supplied and installed in all conduit ends as soon as the conduit is installed. Conduit shall be plugged at all termination points such as pull boxes, manholes, controller cabinets, and node buildings. All plugs shall be correctly sized to fit the conduit being plugged. Empty conduits shall be sealed with removable mechanical type duct plugs that provide a watertight barrier and are equipped with a rope tie on the inside end for connection of the pull tape. No foam sealant will be allowed. All plugs and sealant shall be approved prior to construction.

-2-
REVISION OF SECTION 613
ELECTRICAL CONDUIT

The Contractor shall restore all surface materials to their preconstruction condition or better, including but not limited to pavement, sidewalks, sprinkler systems, landscaping, shrubs, sod, or native vegetation that is disturbed by the conduit installation operation. All repairs shall be included in the cost of the conduit.

If the Contractor is unable to bore the conduit at the lengths shown on the plans from access point to access point, all splice couplings and associated work to splice conduit shall be included in the cost of this item. The coupling technology shall allow the conduit to be connected without the need for special tools, and shall form a watertight, airtight seal. Breaking force between segments shall exceed 250 pounds of force. No metal fittings shall be allowed. No elevation difference between the conduit run and the splice location will be allowed. Conduit splices shall be kept to a minimum and all locations shall be approved by the project engineer. Additional pull boxes shall not be substituted for splices.

All conduits shall use sweeps to elevate the buried conduits to the final grade within a pull box or manhole, as shown in the plans. The sweeps shall be terminated within the pull boxes and manholes to allow for easy installation and removal of the conduit plugs. The sweeps shall be set above the ground surface within the pull box at a height that does not interfere with the coiling of the fiber optic cable.

All conduit runs are intended for the future installation of fiber optic cable and shall have a limited number of bends. The sum of the individual conduit bends on a single conduit run between two pull boxes shall not exceed 270°. No individual bend shall be greater than 45°. All conduit bends shall have a minimum acceptable radius of 30 inches.

If new conduits are installed in existing pull boxes, manholes or cabinet bases the Contractor shall carefully excavate around the pull box or manhole and install the new conduit as shown in the plans. The Contractor shall not damage the existing pull box, manhole or their contents. If the existing pull box, lid, or the concrete collars are cracked or damaged during conduit installation, the Contractor shall restore the damaged section to preconstruction condition at no additional cost.

Subsection 613.11 shall include the following:

Electrical Conduit will be measured by the actual number of linear feet that are installed and accepted. Conduit shall also include anchors, bands, skids, sweeps, pull tape, copper tracer wire, adapters, fittings, conduit plugs, installation equipment, splice couplings, mounting brackets and hardware, structure anchors, adhesives, labor, and all other items necessary to complete the work.

Subsection 613.12 shall include the following:

Pay Item	Pay Unit
2 Inch Electrical Conduit (Bored)	Linear Foot
3 Inch Electrical Conduit (Bored)	Linear Foot
2 Inch Electrical Conduit (Plastic)	Linear Foot
3 Inch Electrical Conduit (Plastic)	Linear Foot

Electrical Conduit contract unit price shall be full compensation for work described above, specified in the plans, and complete and in place.

REVISION OF SECTION 613
PULL BOXES

Section 613 of the Standard Specifications is hereby revised for this project as follows:

Subsection 613.07 shall include the following:

Pull boxes, covers and extensions shall be made of fiberglass reinforced polymer concrete. Pull boxes shall be verified by a 3rd Party Nationally Recognized Independent Testing Laboratory as meeting all test provisions of the latest ANSI/SCTE 77 Specification for Underground Enclosure Integrity, Tier 22 rating. Identification indicating Tier 22 compliance shall be labeled or stenciled on the inside and outside of the box and the underside of the cover. Certification documents shall be submitted with material submittals. The pull box shall have a detachable cover with a skid-resistant surface and have the words “CDOT TRAFFIC” or, “CDOT COMM” cast into the surface. Painting the words shall not be accepted. The cover shall be attached to the pull box body by means of a minimum 3/8 - 7 Unified National Course (UNC) Stainless Steel penta head bolts and shall have two lift slots to aid in the removal of the lid. Lift slots shall be rated for a minimum pull out of 3,000 pounds.

Pull boxes installed in dirt or landscape areas shall have a 12 inch wide by 6 inch thick concrete collar placed around the top as shown on the Project Special Detail Sheet.

All concrete collars shall be Portland Cement Concrete Class B and shall be in accordance with Section 601.

Pull Box (Surface Mounted) shall be metal type with a hinged front door and have at least a NEMA 3R rating. The hinged door shall be provided with both a weather tight seal and a padlock hasp. Surface mounted pull boxes shall be of the dimensions shown in the plans, and shall be mounted on or embedded into hard surfaces such as bridge decks, concrete barriers, retaining walls, or buildings, as shown on the plans. Surface mounted pull boxes shall be attached using 3/8-inch epoxy anchors or other methods, as approved by the Engineer. Surface mounted pull boxes shall not be used for ground installations.

Subsection 613.11 shall include the following:

Pull Boxes will be measured by the actual number that are installed and accepted, and shall include base, lid, fiber optic cable brackets, fiber optic location marker posts, excavation, backfill, concrete collars, and crush stone. Pull Boxes shall also include the removal and patching of pavement, sidewalks, curb and gutters and their replacement in kind to match existing grade.

Subsection 613.12 shall include the following:

<u>Pay Item</u>	<u>Pay Unit</u>
Pull Box (24" x 36" x18")	Each

Concrete will not be measured and paid for separately, but shall be included in the work.

REVISION OF SECTION 613
ELECTRICAL CONDUCTOR IDENTIFICATION

Section 613 of the Standard Specifications is hereby revised for this project as follows:

Section 613.08 shall include the following:

All electrical conductors shall be tagged as follows:

Electrical conductor cable tags shall be located below the termination in the base of the street light, in the pull box, in the pedestal and at the point of termination to existing facilities of the Local Utility Company supplying electrical service. The tags shall be attached with a cable tie. The information written on the tag shall include the direction and approximate length of cable feeds running from where to, etc.

Each incoming conductor shall be individually color coded with 1 tape mark, while outgoing conductors shall have 2 tape marks.

Example:

FEEDS TO PULL BOX
50' NORTH & 75' WEST
THEN TO HIGHWAY SIGN

FEEDS FROM XFMR
250' SOUTH & 75' EAST
200' WEST

Uniform tags are available in a Tag Kit. The Tag Kit consists of: 100 tags, 3 part yellow with 1 hole, 100 black nylon ties and 1 black sharpie pen.

Size	2-1/2" X 5"
Standard Package	Kit
Weight, Kit, Approx.	1.5 Pounds
Color	Yellow

Electrical conductor tagging will not be paid for separately, but shall be included in the cost of the Electrical Conduit and all associated equipment installation.

REVISION OF SECTION 630
PORTABLE MESSAGE SIGN PANEL

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

Subsection 630.01 shall include the following:

This work includes furnishing, operating, and maintaining a portable message sign panel.

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.

Subsection 630.13 shall include the following:

The portable message sign panel shall be on the project site at least 14 days 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.

Subsection 630.15 shall include the following:

Portable message sign panels will be measured one of the two following ways:

- (1) By the actual number of days each portable message sign is used on the project as approved by the Engineer.
- (2) By the maximum number of approved units in use on the project at any one time.

-2-

REVISION OF SECTION 630
PORTABLE MESSAGE SIGN PANEL

Subsection 630.16 shall include the following:

Pay Item	Pay Unit
Portable Message Sign Panel	Each

FORCE ACCOUNT ITEMS
DESCRIPTION

This special provision contains the Division'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>Quantity</u>	<u>Estimated Amount</u>
F/A Minor Contract Revisions	F.A.	\$ 21,000*

Force Account Descriptions:

F/A 01 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 is necessary to accomplish the scope of work of the Contract.

TRAFFIC CONTROL PLAN - GENERAL

The key elements of the Contractor's method of handling traffic (MHT) are outlined in subsection 630.08.

The components of the Traffic Control Plan 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, Case XVIII.
- (3) Schedule of Construction Traffic Control Devices and Construction Traffic Control Plans included in the plans for this project.
- (4) Tabulation of Traffic Control Devices

This project includes restrictions to work times and days that affect traffic during peak traffic times and days, holidays, holiday evenings, holiday weekends, and other circumstances as described in this special provision. Wherever other laws, ordinances, regulations, or orders are more restrictive, they shall take precedence over these requirements.

All lane closures are subject to the Region 1 Lane Closure Strategy, and shall be subject to the approval of the Town of Bennett Engineer. Each lane closure request shall be made at least 48 hours in advance of the time the lane closure is to be implemented. Lane closures will not be allowed to remain unless being utilized continuously for the purpose for which they were set up.

https://www.codot.gov/safety/traffic-safety/assets/work-zones/lane-closure-strategies/R1_Lane_Closure_Report.pdf

The Contractor shall coordinate and cooperate fully with the Town, utility owners, and other contractors, to assure adequate and proper traffic control is provided at all times.

The Contractor shall coordinate and cooperate fully with any others providing traffic control for other operations to assure that work or traffic control devices do not interfere with the free flow of traffic except as allowed by the Traffic Control Plan.

RESTRICTED WORK TIMES FOR PEAK TRAFFIC TIMES

Mainline highway single lane closures will be allowed for Night Only Closures 9:00 PM to 6:00 AM weekdays and weekends. No weekend work will be allowed unless directed by the Engineer.

The Contractor shall be limited to one (1) lane closure at one location and in one direction of traffic, unless directed by the Engineer.

All other work, including shoulder closures, shall be performed Monday through Friday (except holidays) 6:00 AM to 6:00 PM. No weekend work will be allowed unless directed by the Engineer.

The Contractor shall be limited to one (1) active work site, unless directed by the Engineer.

Work performed and material placed that interferes with traffic during the times and in the locations that the roadway is specified to remain open will not be paid for unless the work is directed by the Engineer to be done during those times.

TRAFFIC CONTROL PLAN – GENERAL

RESTRICTED WORK TIMES FOR HOLIDAYS

Work that interferes with traffic on any day of a holiday shall not be permitted. Holidays shall be as defined in subsection 101.33. Section 108.07 of Standard Specifications places additional restrictions on work occurring on weekends, holidays and extended holiday weekends.

CONSTRUCTION

The Contractor shall submit an MHT, all appropriate Traffic Control Supervisor and Flagger documentation to the Engineer prior to approval of the setting any traffic control device,

All costs incidental to the foregoing requirements shall be included in the original contract prices for the project, including any additional traffic / pedestrian control.

During the construction of this project, traffic shall use the present traveled roadway.

The Contractor shall not have construction equipment or materials in the lanes open to traffic at any time, unless otherwise approved by the Engineer.

All personnel vehicle parking is prohibited where it conflicts with safety, access or flow of traffic.

The Contractor shall Maintain open communication with the Project Engineer about all aspects of the daily and weekly work schedule.

All construction traffic control devices including signs installed as part of this project shall be installed, as stated in the Traffic Plans and CDOT's M & S Standards. Construction signing shall be removed unless work is in progress or devices have been left on the job site. This work shall be included in the price of the traffic control devices. All portable signs shall be removed at the end of each working day, and shall not block or impede other existing traffic control devices, or sidewalks for pedestrians, disabled persons or bicycles.

The Contractor shall equip its construction vehicles with flashing amber lights. Flashing lights on vehicles shall be visible from all directions.

The Contractor shall maintain access to all roadways, side streets, walkways, bike paths and driveways at all times unless otherwise directed by the Engineer.

The Contractor shall maintain continuous access through the project for pedestrians, bicycles and disabled persons, except where such access is prohibited prior to construction. When the existing access route is disrupted by construction or construction related activities, a temporary access shall be provided. All pedestrian access shall be delineated through the work area using proper channelizing devices.

Traffic control devices shall not be stored on project site.

Excavations or holes shall be filled in or fenced at the Engineers direction when unattended. During non-construction periods (nights, weekends, holidays, etc.), all work shall be adequately protected to insure the safety of vehicular and pedestrian traffic, as detailed in the Contractor's MHT. Excavations near the roadway shall be filled or shouldered up at the end of each workday.

UTILITIES

The known utilities within the limits of this project are:

UTILITY	UTILITY TYPE	CONTACT	EMAIL/PHONE
Alternative Energy Solutions	Fiber	Mark Ray	1.clr.inc@gmail.com 303-947-4641
Bijou Telephone Coop	Fiber/Telephone	Brian Creveling	creveling@netecin.net 303-822-5400
Colorado Natural Gas Inc.	Gas	Justin Gutierrez	jgutierrez@summitutilitiesinc.com 720-981-2123
Eastern Slope Rural Telephone	Fiber/Telephone	Clint Felzien	clintf@estra.com 719-743-2460
Intermountain REA	Electric	GIS Department	maps@irea.coop
Town of Bennett	Water/Sewer/Storm Sewer	Jerry Weller	jweller@bennett.co.us 303-644-3249
Zayon Bandwidth	Fiber	Robert Williams	Robertd.williams@sayo.com 303-632-0017

The work described in these plans and specifications requires full cooperation between the Contractor and the utility owners in accordance with Subsection 105.11 in conducting their respective operations, to complete the utility work with minimum delay to the project.

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

PART 1 – CONTRACTOR SHALL PERFORM THE WORK LISTED BELOW:

Coordinate project construction with the performance by the utility owner of each utility work element listed in Part 2 below. Perform preparatory work specified in Part 2 for each utility work element. Provide an accurate construction schedule that includes all utility work elements to the owner of each impacted utility. Provide each utility owner with periodic updates to the schedule. Conduct necessary utility coordination meetings, and provide other necessary accommodations as directed by the Engineer. Notify each utility owner in writing, with a copy to the Engineer, prior to the time each utility work element is to be performed by the utility owner. Provide the notice the number of days specified in Part 2 immediately prior to the time the utility work must be begun to meet the project schedule.

Provide traffic control, as directed by the Engineer, for any utility work by the utility owner expected to be coordinated with construction. However, traffic control for utility work outside of typical project work hours shall be the responsibility of the utility owner.

Perform each utility work element for every utility owner listed here in Part 1. Notify each utility owner in advance of any work being done by the Contractor to its facility, so that the utility owner can coordinate its inspections for final acceptance of the work with the Engineer.

-2-
UTILITIES

All Utility Companies

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

If needed for utility work by either the Contractor or a Utility Company, the following shall apply:

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

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

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

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

Utility owners are responsible for obtaining all necessary permits from the Town of Bennett and the State of Colorado, as required.

Intermountain Rural Electric Association (IREA)

After The Town Contractor has completed the installation of the proposed traffic signals, including traffic controller cabinet, luminaires, conduit and wiring to the proposed power source as shown on the plans, IREA forces shall connect the power source. This work is expected to be coordinated with construction and take 1 working day to complete.

Contractor shall provide the utility owner written notice 30 days immediately prior to each utility work element expected to be coordinated with construction.

-3-
UTILITIES

GENERAL:

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

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

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