STANDARD SPECIFICATIONS FOR CONSTRUCTION OF UNDERGROUND UTILITIES – WATERLINES, SANITARY SEWERS, STORM DRAINS, UNDERDRAINS, AND IRRIGATION SYSTEMS:

The ***City of Grand Junction Standard Specifications for Construction of Underground Utilities – Waterlines, Sanitary Sewers, Storm Drains, Underdrains, and Irrigation Systems (UU)*** are hereby modified or supplemented for this Project by the following project special provisions:

PSP-1 REQUIRED FIRE HYDRANT

SUPPLEMENT UU §102.8a; RETAIN §§102.8a AND 104.3g

Furnish and install the Kennedy Valve Guardian K81D as the required hydrant for this Contract. It shall meet the existing City hydrant requirements, including operating and nozzle-cap nut dimensions, direction of opening, City-specific pumper nozzle threads, hose nozzles, finish, ground-line and installation elevations, drainage, restraint, and all requirements of UU §§102.8a and 104.3g and the City Standard Details.

Before ordering, submit the exact Kennedy factory order configuration demonstrating compliance with those existing City requirements. Standard catalog dimensions alone do not establish compliance. An inability to procure a conforming K81D shall be referred to the Engineer before ordering.

PSP-2 CONTINUITY OF WATER SERVICE AND TEMPORARY POTABLE SYSTEMS

SUPPLEMENT UU §104.3i; ADD NEW UU §104.6

104.6a Service continuity.

Plan and perform the Work to comply with the notification and outage limits in GCC §46. For domestic water, the existing provision requires notice at least 48 hours before interruption, a second notice one to four hours before shutoff, and special written City permission for interruptions exceeding two consecutive hours. Coordination with the City shall occur through the Engineer. The Contractor shall not operate existing active-system valves, hydrants, or other City controls.

104.6b When a temporary system is required.

A full temporary bypass distribution system is required when needed to comply with the service-continuity requirements.

104.6c Temporary-system plan.

Before connecting temporary facilities to the City water system, submit a plan through the Engineer describing the supply connection and isolation, affected customer services, anticipated capacity/pressure, material and layout, backflow prevention, protection from traffic and freezing, cutover sequence, emergency contacts, monitoring, disconnection, and restoration. Identify any affected fire-service or other critical customers. The Contractor is responsible for the temporary system it selects, its operation and maintenance, and the protection of customers and property. City review of the plan does not assume responsibility for the Contractor's means, methods, or temporary design.

104.6d Public-health and fire protection.

Use potable-water-rated materials and prevent cross-connections, contamination, loss of pressure, and unapproved service connections. Install any backflow protection required by applicable regulation and the City for the specific connection. Before serving customers, the temporary system shall be made sanitary, checked for integrity, and authorized for service by the City. Applicable requirements of the existing UU §§105.4 and 106.1 remain unchanged; this subsection establishes no alternate pressure-test or disinfection criteria. Temporary domestic-water service shall not be represented as a compliant temporary fire-protection supply without approval by the responsible Fire Code Official and the City.

104.6e Failure and removal.

Immediately notify the Engineer and the City of loss of pressure, suspected contamination, or failure affecting service. Protect and isolate affected facilities, perform required corrective work, and do not resume service until authorized by the City. Remove temporary equipment after successful permanent cutover and restore disturbed surfaces and private improvements.

PSP-3 TRENCHLESS INSTALLATION AND ROW CROSSINGS

ADD NEW UU §104.7; CONTRACTOR SELECTS INSTALLATION MEANS AND METHODS

104.7a Performance requirement.

Where the Construction Drawings or applicable City right-of-way restrictions prohibit open cutting or require boring, the Contractor shall complete the crossing without open cutting unless an exception is authorized by the City and any necessary Contract modification is issued. The Contractor may select horizontal

directional drilling, auger boring, guided boring, pipe jacking, or another suitable trenchless technique.

104.7b Contractor responsibility.

The Contractor is responsible for feasibility and execution of its selected method; temporary works; entry/exit pits; support of excavation; management of thrust, pullback, bending, and joint loads; spoil and drilling-fluid containment; utility verification and protection; surface settlement or heave; and prevention/repair of damage caused by its operations. The completed water main shall conform to the approved Construction Drawings, specified PVC material, required alignment and cover, and applicable drinking-water utility-separation criteria. A proposed method does not authorize a material substitution, design deviation, or clearance exception.

104.7c Work plan and deviations.

Before advancing a trenchless installation, submit to the Engineer a concise crossing plan identifying the selected method, path/profile, bore/pit limits, known utility crossings and field verifications, material/joint compatibility, protection and monitoring measures, and response to loss of drilling fluid, unanticipated obstruction, or ground movement. The Contractor shall verify critical existing-utility locations as required by law and the Contract. If actual conditions prevent compliance with the approved design or required separation, suspend the affected operation, protect facilities, and request the Engineer’s direction. Any permanent design change remains with the City-authorized design and Contract process. Engineer review addresses apparent conformance and coordination and does not approve or assume control of means, methods, temporary works, or safety.

104.7d Acceptance and payment.

Furnish the as-constructed installed alignment/profile and records required by existing UU §107.1, including material and verified crossing locations. Applicable original UU §§105.4 and 106.1 govern pressure testing and disinfection without modification. Unless a separate Bid Schedule item expressly provides otherwise, the ordinary costs of the Contractor-selected trenchless method, including temporary works, pits, ground-support measures, spoil/fluid handling, and repair of Contractor-caused damage, are included in the Contract prices for the applicable Work.

PSP-4 HYDROSEEDING - PRIVATE-PARCEL TURF RESTORATION

SUPPLEMENT CITY 2010 ROAD AND BRIDGE §212; APPLY ONLY WITHIN THE TURF-RESTORATION LIMITS SHOWN ON THE CONSTRUCTION DRAWINGS

A. Scope and protection.

Restore the existing maintained grass playfield disturbed by waterline construction, within the limits shown on the Construction Drawings. The work includes finish grading of the disturbed trench corridor, suitable growing soil, hydraulic seeding, fertilizer, mulch and tackifier, watering, protection, mowing, and correction of deficient areas through final acceptance. The existing turf species are unknown. No improvement of undisturbed portions of the private parcel is included.

B. Seed and materials.

For a uniform bidding basis, use a certified cool-season lawn mixture composed, by seed weight, of 80 percent improved Kentucky bluegrass (at least two named cultivars) and 20 percent turf-type perennial ryegrass (at least one named cultivar), applied at 4.0 pounds of pure live seed (PLS) per 1,000 square feet of restoration area. Furnish commercially labeled seed showing species, cultivar, lot, purity, germination, and weed-seed content; seed shall contain no prohibited or state-listed noxious weed seed. Submit seed tags and proposed application quantities to the Engineer before placement. Apply fertilizer at 200 pounds per acre in accordance with the existing City Road and Bridge §212.02 unless otherwise shown in the Contract Documents. Furnish clean hydraulic wood-fiber mulch and compatible tackifier meeting the applicable material requirements of CDOT 2025 §213.

C. Seedbed preparation.

Restore the disturbed area to the preconstruction general grades, with a smooth, firm, mowable surface continuous with the adjacent existing lawn. Restore a minimum 4-inch suitable growing-soil layer over the disturbed trench area, using imported topsoil; do not rework unaffected lawn to meet this depth. Correct trench settlement, ruts, abrupt grade changes, rocks, and debris before seeding. The restored surface shall not create trip hazards or drainage depressions. Protect and restore irrigation components damaged by the Work.

D. Hydraulic application.

Apply seed uniformly to the prepared soil using hydraulic seeding equipment and promptly apply wood cellulose fiber mulch at 2,000 pounds per acre and

compatible tackifier at 100 pounds per acre (dry product), using CDOT 2025 §213 as the application guide. Do not apply during freezing conditions, heavy precipitation, or high winds that prevent uniform coverage. Prevent runoff and overspray onto fences, paved areas, irrigation components, or other adjacent private improvements and clean affected surfaces promptly.

E. Watering, protection, and establishment.

The private property owner will supply water and irrigation facilities. The City shall establish the legal construction and postconstruction access limits required by the Work; the Contractor shall perform within those limits and coordinate access through the Engineer. Protect the seeded corridor from traffic and play with temporary barriers until final acceptance. The minimum establishment period is 60 days of active growing conditions after seeding. Dormant and frozen periods do not count. If seasonal conditions prevent establishment, continue protection and complete corrective work in the next suitable growing period, subject to the Contract Documents and written direction under the GCC.

F. Acceptance and corrective work.

Request inspection after the minimum establishment period and at least two mowings. The restoration will be accepted when the disturbed seeded area has a rooted, mowable turf stand with at least 90 percent living cover, no individual bare area greater than 2 square feet, and no hazardous settlement, rocks, debris, or abrupt surface transitions. Evaluate coverage and surface conditions within the specified restoration limits, not across the surrounding private property. Repair and reseed areas that do not meet these requirements because of the Contractor’s materials, application, watering, grading, or protection, at no additional cost. The City’s Engineer administers contractual acceptance; the private property owner does not independently authorize changes in price, time, or acceptance requirements.

G. Measurement and payment.

Hydroseeding (Lawn Restoration) will be measured by the acre of finished, accepted turf restoration within the limits shown on the Construction Drawings. The Contract unit price includes finish grading, the specified growing-soil layer within disturbed limits, seed, fertilizer, mulch, tackifier, application, protection, and corrective restoration through acceptance. Disturbance outside the authorized limits caused by the Contractor shall be restored at no additional cost.

PSP-5 PROJECT PLANS AND SUPPLEMENTAL DATA

SUPPLEMENTAL DATA; THE CITY INVITATION FOR BID AND GENERAL CONTRACT CONDITIONS REMAIN CONTROLLING

A. Contract Documents and Construction Drawings remain controlling.

This project special provision refers to supplemental data only; the Contract Documents and Construction Drawings remain controlling for construction requirements.

B. Electronic data available to the Contractor.

The files include: (1) two-dimensional CAD linework in DWG format; (2) project alignments in LandXML format; and (3) LandXML surfaces representing the existing terrain model and/or finished-grade terrain model. The City will identify any such files and the timing and means of delivery through the applicable procurement or Contract process. Receipt of electronic files does not revise the Construction Drawings. In order to receive the electronic documents (CAD files) prepared by JVA Consulting Engineers, the Contractor will need to sign the electronic file transfer release provided by JVA.

C. Status and reliance.

Except for information expressly incorporated into the Contract Documents, supplemental data are provided for convenience, are not part of the Contract, and are not warranted by the City for completeness, accuracy, or suitability for a particular purpose. A bidder or Contractor using or modifying supplemental data in preparing a proposal or planning or performing the Work is responsible for its own conclusions, deductions, inferences, and modifications. If supplemental data conflict with the Contract Documents, the Contract Documents control. This provision does not supersede express Contract requirements or the General Contract Conditions governing changes, differing site conditions, or the City’s contractual duties.