

**TOWN OF LOOMIS  
PUBLIC WORKS DEPARTMENT**

**SPECIAL PROVISIONS AND SPECIFICATIONS  
FOR CONSTRUCTION OF  
TOWN CENTER IMPROVEMENTS**

**TOWN PROJECT No.**

  
8-7-2017



FOR USE IN CONNECTION WITH STANDARD SPECIFICATIONS DATED 2015, REVISED STANDARD SPECIFICATIONS DATED JULY 2016, STANDARD PLANS DATED 2015, REVISED STANDARDS PLANS DATED JULY 2016, AND LABOR SURCHARGE AND EQUIPMENT RATES OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, INsofar AS THE SAME MAY APPLY AND IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

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**TOWN CENTER IMPROVEMENT PROJECT**

**TOWN PROJECT No.**

The technical special provisions contained herein have been prepared by or under the direction of the following Registered Persons.

**LANDSCAPE**



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**PAUL WELLER  
REGISTERED LANDSCAPE ARCHITECT**



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# TOWN CENTER IMPROVEMENT PROJECT

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**SPECIAL PROVISIONS  
FOR THE  
TOWN OF LOOMIS  
DOWNTOWN MASTER PLAN PHASE 1B PROJECT**

**SCOPE OF SPECIAL PROVISIONS**

The work described in these Special Provisions shall be performed in conformance with the latest editions of the Placer County Standard Construction Specifications, the State Standard Specifications, Standard Special Provisions and Standard Plans, except insofar as these Special Provisions may modify them.

Numbering in these Special Provisions conforms to that in the State Standard Specifications. The existence of a Section in these Special Provisions means that the corresponding Section in the State Standard Specifications is modified in some respect. Unless otherwise specified, the modified State Standard Specification Provisions are deleted entirely, and the provisions of these Special Provisions are substituted.

The construction materials, payments, etc., for items of work shown in the proposal and on the plans, but not specifically mentioned in these Special Provisions are referred to the Standard Construction Specifications and State Standard Specifications for conformance.

**DISCREPANCIES AND OMISSIONS**

Any discrepancies or omissions found in the Contract Documents shall be reported to the Engineer immediately. The Engineer will clarify discrepancies or omissions, in writing, within reasonable time.

In resolving inconsistencies among two or more Sections of the Contract Documents, precedence shall be given in the following order:

- Special Provisions
- Placer County General Specifications
- State Standard Specifications and Amendments to the State Standard Specifications, Standard Special Provisions, and Plans
- Drawings

Addenda shall take precedence over all Sections referenced therein. Figure dimensions on Drawings shall take precedence over general Drawings.

# 1 GENERAL

In section 1-1.07B, Replace the definition of "Department" with:

Town of Loomis or the Department of Transportation as defined in St & Hwy Code § 20 and authorized in St & Hwy Code § 90; its authorized representatives.

# 4 SCOPE OF WORK

Replace section 4-1.03 with:

The work to be performed consists, in general, of landscaping and all other works as shown on the contract documents.

Add to section 4-1.13:

Prior to submitting the final payment request, the Contractor shall remove all reference markings (i.e. USA markings, striping reference points, utility reference points) placed during the course of work.

# 5 CONTROL OF WORK

Replace section 5-1.26 with:

This work shall consist of furnishing and setting construction stakes and marks by the Contractor to establish the lines and grades required for the completion of the work as shown on the plans and as specified in the Caltrans Standard Specifications and these Special Provisions.

Prior to any construction work, the Contractor shall adequately survey the existing horizontal and vertical control points of all facilities that are to be restored to their original locations at the end of construction.

Before starting any survey work, the Contractor shall submit in writing for approval to the Engineer, the proposed procedures, methods, equipment, and typical stake markings to be used.

All procedures, methods, and typical markings shall be in accordance with Chapter 12, "Construction Surveys," of the Department's *Surveys Manual*.

Project control points and data are shown on the plans for the Contractor's use. Construction staking shall be performed as necessary to control the work. Construction stakes and marks shall be furnished and set with accuracy adequate to assure that the completed work conforms to the lines, grades, and sections shown on the plans.

In the event the Contractor's operations destroy any of the project control points, the Contractor shall replace project control points at his expense, subject to verification by the Engineer. The cost of any such verification by the Engineer will be deducted from any moneys due or to become due the Contractor. The Contractor will not be allowed any adjustment in contract time for such verification of project control points by the Engineer.

All computations necessary to establish the exact position of the work from the project control points shall



be made by the Contractor. All computations, survey notes, and other records necessary to accomplish the work shall be neat, legible and accurate. Copies of such computations, notes, and other records shall be furnished to the Engineer prior to beginning work that requires their use.

Construction stakes shall be removed from the site of the work when no longer needed.

Upon completion of construction staking and prior to acceptance of the contract, all computations, survey notes, and other data used to accomplish the work shall be furnished to the Engineer and shall become the property of the Town.

## **6 CONTROL OF MATERIALS**

### **Add to section 6-2.01A:**

Material testing for this project will be provided by the Contractor as set forth in Section 6 of the Standard Specifications and per applicable local and state regulations. The Contractor shall perform all testing to verify compliance with the Specifications of any and all materials furnished by the Contractor. Testing includes irrigation system pressure testing, horticultural soils testing for determining appropriate soil amendments, and soil infiltration rate information to comply with AB 1881. The Contractor shall submit and receive the Town Representative's approval of all compliance test results prior to incorporating materials into the project. The Contractor may elect to place material without the approved certificates of compliance and mix designs and shall be at the Contractor's own risk.

## **7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC**

### **Add to section 7-1.04:**

The Contractor shall cooperate with and notify the local police and fire departments, school districts, Refuse, ambulance services, and Public Works Division of proposed construction operations two (2) days before work is to begin.

The Contractor shall be responsible to notify and coordinate their schedule with schools that may be in or adjacent to the projects area.

### **Replace section 7-1.09 with:**

#### **7-1.09 PERMITS AND LICENSES**

The Contractor shall obtain a business license from the Town of Loomis prior to performing the work.

The Contractor may use water from Town of Loomis fire hydrants provided that the required permits are obtained from **Placer County Water Agency** and the Contractor has paid the associated fees. Paying fees are the responsibility of the contractor and shall be included in the bid.

### **Replace section 7-1.10 with:**

#### **7-1.10 COOPERATION**

The Contractor shall cooperate with other forces constructing, relocating, and/or modifying facilities within the project limits. The Contractor shall coordinate his work with that of others, including utility companies, to prevent delays.

It is understood and agreed that the Contractor has considered in his bid all of the permanent and temporary utility appurtenances in their present and/or relocated positions as shown on the plans or as described in the specifications, and that no additional compensation will be allowed for any delays, inconvenience, or damages sustained due to any interference from said appurtenances or the operation of moving them. In addition, the Contractor shall not be allowed any additional compensation for delays of inconvenience sustained by the Contractor due to the Town not having Town-supplied equipment ready for pick-up. In such a case, the Town may increase the number of working days for the contract.

Five (5) days prior to beginning work, the Contractor shall provide to the Engineer, in writing, the name and telephone number of a representative who is directly involved with this project, and under the supervision of the Contractor. The Contractor's representative may be contacted by Town staff during non-working hours including nights, weekends and holidays in the case of any public inconvenience and/or emergency relating to the Contractor's operations. The contact representative shall not be replaced by another company employee for the duration of the project without a written explanation from the Contractor which has been approved by the Engineer. Should a new representative be used, he/she shall be knowledgeable of the project, the events, and/or revisions that may be occurring.

**Add section 7-1.12:**

#### **7-1.12 RIGHTS IN LAND AND IMPROVEMENTS**

The Contractor is responsible for making arrangements to stock-pile and store equipment outside the public right of way as work is performed. Personal vehicles of the Contractor's employees shall not be parked on the traveled way or shoulders, private property, including any Section closed to public traffic.

The Contractor shall secure easements at their own expense for any areas required for plant sites, storage of equipment or materials, or for any other purposes. Before occupying any easement area, the Contractor shall provide the Engineer a written statement from each property owner verifying easement acquisition.

**Staging areas located on private property shall be restricted to properties where the property owner has given written authorization to the Contractor for use of said property.** The Contractor shall submit, at the Pre-Construction meeting, documentation of the written authorization from the property owner(s). Prior to final acceptance of the project, the Contractor shall provide the Engineer a written statement of release from each property owner that granted an easement for the Contractor's operations.

## **8 PROSECUTION AND PROGRESS**

**Replace section 8-1.04A with:**

#### **8-1.04A TIME OF COMPLETION**

For the purposes of this contract, all work under the contract shall be completed within 25 WORKING DAYS beginning on the first effective working day as specified in the Notice to Proceed.

**Delete the first two paragraphs of section 8-1.04B.**

**Add Section 8-1.05A CONSTRUCTION WORKING HOURS.**

#### **8-1.05A CONSTRUCTION WORKING HOURS**

The construction working hours are Monday-Friday 7:00 AM to 5:00 PM.

Requests for authorization to perform work outside the hours listed above shall be made in writing at least 72 hours in advance.

## 9 PAYMENT

Delete section 9-1.07.

Add to section 9-1.16F:

As provided in California Public Contract Code 7200(b), you may not retain monies from progress payments to subcontractors, and subcontractors may not retain monies from their subcontractors. The exceptions provided in Public Contract Code 7200(c) shall not apply. You may require subcontractors to furnish payment and performance bonds issued by an admitted surety insurer.

Replace section 9-1.22 with:

All claims filed with the Town must be in writing and include the documents necessary to substantiate the claim. Claims must be filed within the time limits set forth in this contract. In no circumstances, however, may a claim be filed after the day of final payment. Nothing in this subsection is intended to extend the time limit or supersede notice requirements for the filing of claims as set forth elsewhere in this contract.

1) Claims of \$50,000.00 or Less

(a) The Town will respond in writing to all written claims less than or equal to fifty thousand dollars (\$50,000.00) within forty-five (45) calendar days of receipt of the claim. Within thirty (30) calendar days of receipt of the claim, the Town may request any additional documentation supporting the claim or relating to defenses or claims the Town may have against the claimant.

(b) If additional information is thereafter required, it shall be requested and provided pursuant to this subsection, upon mutual agreement of the Town and the claimant.

(c) The Town's written response to the claim, as further documented, shall be submitted to the claimant within fifteen (15) calendar days after receipt of the further documentation or within a period of time no greater than that taken by the claimant in producing the additional information, whichever is greater.

2) Claims Between \$50,000.01 and \$375,000.00

(a) The Town will respond in writing to all written claims between fifty thousand dollars and one cent (\$50,000.01) and less than or equal to three hundred seventy-five thousand dollars (\$375,000.00), within sixty (60) calendar days of receipt of the claim. Within thirty (30) calendar days of receipt of the claim, the Town may request, in writing, any additional documentation supporting the claim or relating to defense to the claim the Town may have against the claimant.

(b) If additional information is thereafter required, it shall be requested and provided pursuant to this Subdivision, upon mutual agreement of the Town and the claimant.

(c) The Town's written response to the claim, as further documented, shall be submitted to the claimant within thirty (30) calendar days after receipt of the further documentation or within a period

of time no greater than that taken by the claimant in producing the additional information or requested documents, whichever is greater.

3) Claims in Excess of \$375,000.00. The Town shall, within a reasonable time after the presentation of any claim in excess of \$375,000.00, make a decision in writing on such claim.

4) Meet and Confer Conference

(a) If the claimant disputes the Town's written response, or the Town fails to respond within the time prescribed, the claimant may so notify the Town, in writing, either within fifteen (15) calendar days of receipt of the Town's response or within fifteen (15) calendar days of the Town's failure to respond within the time prescribed, respectively, and demand an informal conference to meet and confer for settlement of the issues in dispute. Upon a demand, the Town shall schedule a meet and confer conference within thirty (30) calendar days for settlement of the dispute.

(b) If, following the meet and confer conference, the claim or any portion thereof remains in dispute, the claimant may file a claim pursuant to Chapter 1 (commencing with Section 900) and Chapter 2 (commencing with Section 910) of Part 3 of Division 3.6 of Title 1 of the California Government Code. For the purposes of those provisions, the running of the period of time within which a claim must be filed shall be tolled from the time the claimant submits his or her written claim pursuant to this Section until the time that claim is denied as a result of the meet and confer process, including any period of time utilized by the meet and confer process.

5) Contractor's Duty During Claim Resolution. The Contractor shall proceed with the Work in accordance with the plans and specifications and determinations and instructions of the Town Engineer during the resolution of any claims disputes.

6) Certification. The Contractor shall certify in writing, at the time of submission of any claim, as follows:

I certify under penalty of perjury under the laws of the State of California, that the claim is made in good faith, that the supporting data are accurate and complete, and that the amount requested accurately reflects the monies due for work performed under the Contract for which the Town of Loomis is liable.

By: \_\_\_\_\_  
(Contractor's signature)

7) Town Remedies. In the event the Contractor refuses or neglects to make good any loss or damage for which the Contractor is responsible under this Contract, the Town may itself, or by the employment of others, make good any such loss or damage, and the cost and expense of doing so, including any reasonable engineering, legal and other consultant fees, and any costs of administrative and managerial services, shall be charged to the Contractor. Such costs and expenses may be deducted by the Town from claims for payment made by the Contractor for work completed or remaining to be completed.

Assignment. In entering into a public works contract or a subcontract to supply goods, services, or materials pursuant to this contract, the Contractor and all subcontractors shall offer and agree to assign to the Town all rights, title, and interest in and to all causes of action it may have under section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services or materials pursuant to the public works contract or subcontract. This assignment shall be made and become effective at the time the Town tenders final payment to the Contractor, without further acknowledgment by the parties.

Contractor Waiver and Limitation. The Contractor agrees that it can be adequately compensated by money damages for any breach of this Contract which may be committed by the Town and hereby agrees

that no default, act, or omission of the Town or the Engineer, shall constitute a material breach of the Contract entitling the Contractor to cancel or rescind the provisions of this Contract or (unless the Town shall so consent or direct in writing) to suspend or abandon performance of all or any part of the work. The Contractor hereby waives any and all rights and remedies to which it might otherwise be or become entitled, save only its right to money damages.

Venue. Any litigation arising out of this Contract shall be brought in the Superior Court of Placer County, and the Contractor hereby waives the removal provisions of Code of Civil Procedure Section 394.

## **12 TEMPORARY TRAFFIC CONTROL**

**Replace section 12-1.03 with:**

The cost of furnishing all flaggers, including transporting flaggers and furnishing stands and towers for flaggers to provide for the passage of traffic through the work as specified in sections 7-1.03 and 7-1.04 is paid under Traffic Control System bid item.

**Replace the 3rd sub-item in item 1 in the list in the 1st paragraph of section 12-3.01A(3) with:**

1.3. Contract number, county, route, and project limits

**Replace second to last paragraph in section 12-3.11B(2):**

Excavations for sign posts are not permitted for signs. All shall be mounted on temporary masts, or barricades, or affixed to existing roadside sign posts, as approved by the Engineer.

**Replace section 12-3.11D:**

Payment for construction area signs described for a traffic control system is included in the payment for the Traffic Control System bid item.

**Add to the beginning of section 12-3.32C:**

Place at least one PCMS in each direction on Taylor Road and westbound on Horse Shoe Bar Road at locations approved by the Engineer. Start displaying the approved message on the PCMS 10 days before closing the lane. Keep the boards with the messages in place until work is complete.

Place PCMSs at the locations above and in advance of the 1<sup>st</sup> warning sign for each:

1. Stationary lane closure
2. Shoulder closure
3. Speed reduction zone

Replace the table in the definition of *designated holidays* in section 12-4.02A(2) with:

Holiday	Date observed
New Year's Day	January 1st
Martin Luther King Day	January 18th
Lincoln's Birthday	February 12th
Washington's Birthday	February 15th
Memorial Day	Last Monday in May
Independence Day	July 4th
Labor Day	1st Monday in September
Columbus Day	October 12th
Veterans Day	November 11th
Thanksgiving Holiday	4th Thursday in November & following Friday
Christmas Day	December 25th

Replace *Reserved* in section 12-4.02C(3)(d) with:

Do not perform work on Town streets that interferes with traffic from 7 am to 8 pm Monday thru Friday or from 8 am to 5 pm Saturday and Sunday.

Replace *Reserved* in section 12-4.02C(3)(m) with:

Comply with the requirements for a complete Town street lane closure shown in the following chart:

Chart No. 1																								
Location: Taylor Road												Direction: Both												
Closure limits: Oak Street to Horse Shoe Bar Road																								
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Mon	C	C	C	C	C	C	C	1	1	1	1	1	1	1	1	1	1	1	1	1	C	C	C	C
-Thu																								
Fri	C	C	C	C	C	C	C	1	1	1	1	1	1	1	1	1	1	1	1	1	C	C	C	C
Sat	C	C	C	C	C	C	C	C	1	1	1	1	1	1	1	1	1	1	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	1	1	1	1	1	1	1	1	1	1	C	C	C	C	C	C

**Legend:**

**1** Provide at least 1 Town street lane open in the direction of travel.

**C** Street may be closed.

**N** No work is allowed.

**R** Provide at least 1 through traffic lane not less than 10 feet in width for use by both directions of travel.  
(Reversing Control)

**REMARKS:** The number of through traffic lanes in each direction of travel is 1.

Replace section 12-7.04 with:

Payment for all materials and work defined in Section 12 shall be paid for at the contract lump sum price for Traffic Control System as shown on the Bid Schedule.

### 13 WATER POLLUTION CONTROL

Replace section 13-3.04 with:

Payment for preparing the stormwater pollution prevention plan is included in the contract lump sum price for Erosion Control (SWPPP) as shown on the Bid Schedule.

Replace section 13-5.04 with:

Payment for required temporary soil stabilization is included in the contract lump sum price for Erosion Control (SWPPP) as shown on the Bid Schedule.

**Replace section 13-6.04 with:**

Payment for required temporary sediment control is included in the contract lump sum price for Erosion Control (SWPPP) as shown on the Bid Schedule.

**Delete section 13-7.03D**

## **14 ENVIRONMENTAL STEWARDSHIP**

If less than 220 lb of hazardous waste residue and dust is generated in total, dispose of it within 30 days after the start of accumulation of the residue.

Payment for disposal of all waste is included in the contract lump sum price for Demolition/Existing Pipe Cutting or Capping as shown on the Bid Schedule.

## **15 EXISTING FACILITIES**

**Add between the 6th and 7th paragraph of section 15-1.03A:**

The loop detectors at the intersection of Taylor Road and Horseshoe Bar Road must remain in place and operational.

**Add to the end of section 15-1.03C:**

At least 2 business days before hauling the material to the salvaged material stockpile location, notify the Engineer and inform the Town at telephone no. (916) 652-1840.

The stockpile location is:

Town of Loomis Corporation Yard  
3165 Rippey Road  
Loomis, CA 95650

## **19 EARTHWORK**

**Replace the 2nd, 3rd, and 4th paragraphs of section 19-2.03B with:**

Dispose of surplus material. Ensure enough material is available to complete the embankments before disposing of it.

**Replace section 19-11 with:**

**19-11 Landscape Area Excavation and Backfill**

**19-11.01 GENERAL**

Section 19-11.01 includes specifications for excavation under landscape areas and backfill with topsoil.

**19-11.02 MATERIALS**

Topsoil shall be fertile, friable loam soil. Topsoil must be clean and free of rocks greater than 1" in any dimension, or other deleterious materials, such as litter, toxic waste, sticks, grasses and weeds, roots, brush, coarse sand, stiff clay, noxious weed seed, and other substances detrimental to plant, animal, or human health. Suitable topsoil may be imported or salvaged from the project site, or a combination



thereof. Salvaged topsoil must be stockpiled on site and protected during construction to prevent contamination with deleterious materials.

#### 19-11.03 CONSTRUCTION

Planting beds and permeable paving areas shall be excavated to a depth of 2 feet or to the bottom of any asphalt, concrete, aggregate base or other construction materials, whichever is greater. Excavated construction material shall be recycled or disposed of properly off site.

Backfill non-swale planting areas with 24" of suitable topsoil, either imported or salvaged from project site and grade per plans.

#### 19-11.04 PAYMENT

Payment for cutting of existing pipes, cutting and capping abandoned existing pipes, and pipe debris removal is included in the contract lump sum price for Demolition/Existing Pipe Cutting or Capping as shown on the Bid Schedule.

Payment for excavation and removal of unsuitable soil, buried asphalt, concrete, or deleterious materials is included in the contract lump sum price for Excavation and Removal as shown on the Bid Schedule.

Payment for placing import topsoil and amendments shall be at the unit price bid per cubic yard.

Payment for preparing and amending existing topsoil shall be at the unit price bid per square foot.

Payment for excavation and import of storm water swale planter preparation/amendment areas shall be at the unit price bid per cubic yard.

## 20 LANDSCAPE

**Replace section 20-1.02C with:**

Pesticides and herbicides shall not be used on this project without prior authorization from the Town of Loomis.

Any pesticide or herbicide used shall be applied by a licensed applicator in accordance with product label.

**Replace section 20-1.03C with:**

Pesticides and herbicides shall not be used on this project without prior authorization from the Town of Loomis.

Any pesticide or herbicide used shall be applied by a licensed applicator in accordance with product label.

**Delete section 20-2.01A(4)(b)(iii)**

**Replace section 20-2.01B(7) with:**

Valve box shall be UV-stabilized polyethylene with integrated pipe knock-outs.

Valve box lid shall be green or brown with locking cover.

**Re-title Section 20-2.02 to:**

#### **Water Meter and Backflow Preventer Assemblies**

**Replace section 20-2.02A(1) with:**

Section 20-2.02 includes specifications for installing water meters and backflow preventer assemblies.

**Insert after paragraph 4 of section 20-2.02A(4)**

As part of the prior project, the Town of Loomis paid meter fees and performed the first hydrostatic pressure test and bacteriological sample test.

**Replace section 20-2.02B(2) with:**

Backflow preventer (1" in size) has been installed as part of the prior project. Protect in place.

**Replace section 20-2.02B(4) with:**

The metal enclosure has been installed as part of the prior project. Protect in place.

**Insert section 20-2.02B(5):**

Water meter ( ¾" in size) has been installed as part of the prior project. Protect in place.

**Replace section 20-2.05C with:**

Multiple valves shall be run simultaneously to meet the minimum detection threshold of the flow sensor.

**Replace section 20-2.06B(1) with:**

**20-2.06B(1) Automatic Irrigation Controller**

Automatic irrigation system controller (Rainmaster Eagle Plus in Stainless Steel Security Pedestal with 2-wire interface [EGP-TW-i-SPED]) has been installed as part of the prior project. Protect in place. Contact Rainmaster tech support, (800) 777-1477 for installation and programming assistance.

**20-2.06B(2) Decoders**

Decoders (Rainmaster TW-D-1, TW-D-2, or TW-D-4 for single, pairs, and groupings of 4 valves as required based on field positioning of irrigation valves) were installed and connected to the Automatic Irrigation Controller as part of the prior project. The decoders will need to be connected to the remote control valves as part of this contract.

**20-2.06B(3) Weather Sensor**

The weather sensor (Rainmaster Weather Center II [RM-WETHR-ETRS]) has been installed as part of the prior project phase. Protect in place.

**Replace section 20-2.02D with:**

Payment for programming and wiring together the irrigation controller assembly, valves, weather sensor, flow sensor, and all other irrigation appurtenances shall be at the lump sum price bid for Program Irrigation Controller Assembly and wire/connect 2 Wire Decoders to valves as shown in the Bid Schedule and includes all associated work, including but not limited to installation of decoders and weather sensor, all necessary wiring, and training of Town Staff.

**Replace first paragraph of section 20-2.07B (5) with:**

Schedule 40 conduit has been installed under all sidewalks and driveways and Schedule 80 conduit has been installed under roads as part of the prior project. Protect in place and utilize for wiring and piping as needed. Alert the Town Representative at once if conduit necessary for installing a complete irrigation system as designed is missing or inadequate.

**Insert before first paragraph of section 20-2.07C(1) with:**

Conduit shall be twice the diameter of the pipe(s) being sleeved.

**Replace section 20-2.08B(4) with:**

Drip Line shall be manufactured of UV-resistant tubing, brown or black in color, with integral, pressure-compensating, self-cleaning drip emitters with integral in-emitter check valve and anti-siphon mechanism.

Emitters shall be spaced at 18" O.C. and have a flow rate of 0.6F GPH.

Drip lines shall not be impregnated with herbicides or other chemicals.

Drip pressure indicator shall be pop-up with high-visibility top.

**Replace section 20-2.08D with:**

Payment for drip irrigation shall be at the square foot price bid and includes all associated trenching, piping, fittings, gate, quick coupling, flush, ball, and remote control valves, emitters, indicators, and other miscellaneous material, and testing and training.

**Replace section 20-2.09B(4) with:**

Root Watering systems shall be Hunter RWS-18-25 or approved equal.

**Replace section 20-2.09D with:**

Payment for root watering systems shall be at the unit price bid per each and includes all associated trenching, piping, ball valves, remote control valves, fittings, bubblers, and other miscellaneous material.

**Replace section 20-2.10B(4) with:**

Valves shall be globe valves, size as shown on plans, constructed of glass-filled nylon with captive bonnet bolts, and manual bleed capabilities. Valves shall include pressure regulating module and latching solenoid. Suitable products include Hunter ICV with Accu-Sync, Rainbird PEB with PRS-D, or approved equal.

Install 'Y'- or basket-filters immediately after valves on all drip line zones. Filters shall be installed either in box with remote control valve or in separate valve box, whichever is required to allow full access to service the filter. Install 2 parallel filters on zones larger than the manufacturer's recommended maximum flow. Filter shall have a minimum of 120 mesh stainless steel screen filtration. Suitable products include Rainbird Quick Check Basket Filter, QKCHK, Toro Y-filter, T-ALFS, or approved equal. As part of the prior project contract, stubs out from the mainline to each designated valve location were installed. Alert the Town Representative at once if the irrigation mainline stubs necessary for installing a complete irrigation system as designed are missing or inadequate.

**Replace section 20-2.10B(7) with:**

Valve box shall be UV-stabilized polyethylene with integrated pipe knock-outs.

Valve box lid shall be green or brown with locking cover.

**Replace section 20-2.10B(9) with:**

Quick coupling valves shall have 1" NPT inlet threads, 2 piece body, and locking yellow rubber cover. Suitable products include Hunter HQ-44LRC, Rainbird 44-LRC, or approved equal. As part of the prior project contract, stubs out from the mainline to each designated valve location were installed. Alert the Town Representative at once if the irrigation mainline stubs necessary for installing a complete irrigation system as designed are missing or inadequate.

**Replace section 20-2.10B(10) with:**

Remote control valves shall be globe valves, size as shown on plans, constructed of glass-filled nylon with captive bonnet bolts, and manual bleed capabilities. Valves shall include pressure regulating module and latching solenoid. Suitable products include Hunter ICV with Accu-Sync, Rainbird PEB with PRS-D, or approved equal. As part of the prior project contract, stubs out from the mainline to each designated valve location were installed. Alert the Town Representative at once if the irrigation mainline stubs necessary for installing a complete irrigation system as designed are missing or inadequate. Install a ball valve per plans (normally open) and standard specifications immediately upstream of each remote control valve.

**Insert section 20-2.10B(11) Flush Valve:**

Flush valve shall be automatic flushing and designed for use with dripline. Suitable products include Netafim TLFV-1, Toro T-FCH-H, or approved equal.

**Insert following item 3 in section 20-2.10C(2):**

4. All control valves shall be installed in valve box with locking cover. Valve box keys shall be furnished to the Town of Loomis.

5. Each valve shall be labeled with pre-printed plastic tag identifying station number.

**Replace section 20-2.10D with:**

Payment for all valves is included in the price bid for drip irrigation and root watering systems. See Sections 20-2.08D and 20-2.09D.

**Add section 20-3.01A(5):**

#### **20-3.01A(5) Soil Test**

Once initial grading is complete, contractor shall have planting area soil tested by a reputable soil laboratory, which will provide recommendations for amendments and analyses of potentially harmful nutrient deficiencies or over-abundance. Collect soil sample from a minimum of four planting areas equally spaced throughout project site or where different topsoil sources were used, whichever is greater, to ensure complete site coverage.

**Add following paragraph 5 in section 20-3.01B(2)(a):**

The central leaders of all specified trees shall remain intact. Any tree which has had its central leader cut or removed is subject to rejection. Trees shall have straight, single trunks unless otherwise specified on the plans.

Container stock shall have been grown in that container for no less than six months, but shall not be overgrown and/or rootbound.

**Replace items 1-4 in section 20-3.01B(3) with:**

1. Nitrogen stabilized wood shavings or similar organic material.
2. Concrete sand
3. S100 Compost
4. Other amendments recommended by a qualified soil testing laboratory and approved by Town representative.

**Replace section 20-3.01B(4)(b):**

Fertilizer shall be slow release organic fertilizer with minimum 5% humic acid, and NPK ratio as recommended by results of soil test.

**Replace section 20-3.01C(5) with:**

Maintain plants from initial planting through the end of the plant establishment period.

**Add following paragraph 2 of section 20-3.01C(1):**

The contractor shall notify the Town Representative 48 hours in advance of delivery of all plant materials for inspection.

**Replace paragraphs 4 and 5 of section 20-2.3.02C(2) with:**

Excavate each planting hole by manual or machine methods. Planting hole shall be twice the width of the container. The bottom of each planting hole shall be shaped to provide positive drainage away from the rootball. Planting hole depth shall be excavated so that bottom of rootball sits on undisturbed soil with top of rootball no more than 2" above finished grade.

Amend and prepare planting soils per soil analyses. Under planting areas scarify and recompact top 6 inches below subgrade and compact each layer of backfill or fill soil material at 85 percent.

In stormwater swale areas and tree wells, as shown on plans, place soil consisting of 40% concrete sand, 30% clean native soil or topsoil, and 30% S100 compost. Soil mix shall be placed 24" deep in swale areas. Mix soil components thoroughly prior to placement. Grade swale areas to create infiltration basins per plans. Request approval from Town representative prior to planting.

**Insert after paragraph 1 in section 20-3.02C(3)(a):**

Deliver plants after preparations for planting have been completed and install immediately. If planting is delayed more than six hours after delivery, set exterior plants trees in shade, protect from weather and mechanical damage, and keep roots moist.

**Replace section 20-3.02D with:**

Payment for planting soil preparation/ amendment shall be at the unit price bid per square foot and includes all associated soil testing.

Payment for stormwater soil shall be at the unit price bid per cubic yard.

Payment for root barrier shall be at the unit price bid per linear foot.

Payment for pruning existing trees shall be included in the contract lump sum price for Existing Trees -- Prune as shown on the Bid Schedule.

Payment for trees and shrubs of various sizes shall be at the unit price bid per each and includes all associated backfill soil amendment, fertilizer tablets, tree stakes, and planting pit drainage.

**Replace section 20-4.01B with:**

The plant establishment period shall begin following the post-planting inspection and acceptance of planting by the Town's representative and extend for 90 calendar days following planting acceptance. All plants must be installed prior to the post-planting inspection.

**Insert after paragraph 2 in section 20-4.01C(2):**

Contact Town's representative a minimum of 48 hours prior to the desired post-planting inspection date.

**Insert section 20-4.03H:**

Following the plant establishment period, the contractor shall provide a warranty that guarantees the health and vigor of trees and shrubs planted for one year from the date of final acceptance by the Town of Loomis. The contractor shall replace, at no cost to the Town, any plants that die during the warranty period. Replacement plants shall be sized in accordance with section 20-4.03F.

**Replace section 20-4.04D with:**

Payment for 90-day Plant Establishment Period shall be at the lump sum price bid and includes all associated maintenance, and warranty work.

**Replace section 20-5.03E(4) with:**

Payment for bark mulch shall be at the unit price bid per square foot.

**Replace section 20-5.03F with:**

**20-5.03F ROCK MULCH AND COBBLE**

**20-5.03F(1) GENERAL**

Section 20-5.03F includes specifications for rock mulch and cobble in stormwater swale planting areas.

**20-5.03F(2) MATERIALS**

As shown on plans.

**20-5.03F(3) CONSTRUCTION**

Install stormwater cobble in stormwater swales per plans.

Install rock mulch in swale planting areas outside of swales per plans.

#### 20-5.03F(4) PAYMENT

Payment for rock mulch with geotextile fabric shall be at the unit price bid per square foot.

Payment for stormwater swale cobble with geotextile fabric shall be at the unit price bid per square foot.

#### Replace section 20-5.05B with:

Bench shall be Scarborough, color: black, as manufactured by Landscape Forms to match existing benches at Depot Park.

Refuse receptacles shall be Scarborough, color: black with ash can lid as manufactured by Landscape Forms.

Publication rack shall be 2-tower newsrack, color: black, as available from City Solutions.

#### Replace section 20-5.05C with:

Install new site furnishings with in-ground footings per manufacturer's recommendations.

Granite benches shall be protected in place as shown on plans.

Mail box shall be salvaged and reset in place. Contractor to coordinate with Town representative and Loomis post-master to determine interim location of mail box during construction and final location.

Existing drinking fountain shall be protected in place.

#### Replace section 20-5.05D with:

Payment for benches shall be at the unit price bid per each and includes all associated concrete footings.

Payment for refuse receptacles shall be at the unit price bid per each and includes all associated concrete footings.

Payment for publication racks shall be at the unit price bid per each and includes all associated concrete footings.

Payment for mail box shall be at the lump sum price bid and includes all associated interim placement and coordination with post master.

#### Replace section 20-5.06 with:

#### 20-5.06 ROOT BARRIER

##### 20-5.06A GENERAL

Section 20-5.06 includes specifications for root barrier.

##### 20-5.06B MATERIALS

Root barrier shall be continuous HDPE sheet roll material 24 inches deep as manufactured by NDS or approved equal.

##### 20-5.06C CONSTRUCTION

Install single layer per manufacturer's recommendations as shown on plans.

Install root control barrier around perimeter of planting area containing tree. Trim material as necessary to accommodate stormwater flows or existing utility lines.

##### 20-5.06D PAYMENT

Payment for root barrier shall be at the unit price bid per linear foot and includes all associated excavation

## **21 EROSION CONTROL**

**Replace section 18-1.04 with:**

Payment for all required items in Section 21 is included in the contract lump sum price for Erosion Control (SWPPP) as shown on the Bid Schedule.