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Santa Clara Valley Water District
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March 19, 2021

ADDENDUM NO. 6
TO CONTRACT DOCUMENTS FOR THE
UPPER LLAGAS CREEK FLOOD PROTECTION PROJECT, PHASE 2A
Project No. 26174052 Contract No. C0665

Notice is hereby given to Prospective Bidder that the Contract Documents are modified as hereinafter set forth.

BID DOCUMENTS

1. **REPLACE** Bid Form No. 5 and item no. 2, Addendum No. 5 with ATTACHMENT NO. 1 – Revised Bid Form 5, Bidder's Bond.

TECHNICAL PROVISIONS

2. **REPLACE** Paragraph F of Article 24.05.06.01. Pre-excavation Surface Grouting with the following:

“F. Verifications:

1. Monitor for surface heave during the initial grouting program **of the primary grout holes.**
2. Monitor for surface settlements along the tunnel alignment. If the surface settlement exceeds the Action Trigger Levels during tunneling, **begin the process of grouting in the secondary** grout holes and verify the extent of the ground improvement and stabilization.
3. Use the **secondary** grout holes to inject grout for additional ground improvement. **If the secondary grout holes have been used, drill new grout holes per an accepted work plan.**
4. Grouting for ground improvement and stabilization from within the tunnel is also acceptable in accordance with requirements of Article 24.05.02.
5. Allow grout to cure and grout to reach an initial set as defined in ASTM 191. **Establish the initial set time for each grout mix in advance of grouting.** Acceleration of the grout by admixture can be performed to accelerate this process.”

3. **REPLACE** Paragraph G.2 of item no. 8 of Addendum No. 5, Article 24.05.08, Submittals with the following:
 - “2. Temporary surface restoration of surface grouting holes at the conclusion of the grouting program, after **removing the portion of the** grout sleeves **within six inches of the road surface**, and prior to asphalt restoration in accordance with Article 24.05.06.01.G of these Specifications. The Contractor shall submit a non-compressible grout mix that shall be used to backfill the holes after removal of the grout sleeves that can be removed as needed to restore the asphalt pavement as shown on the drawings and as described in these Specifications for approval by the Engineer.”
4. **ADD** new Paragraph F to Article 24.07.05.03 Drain Holes with the following:
 - “F. **If the Contractor would like to reduce the amount of inflow from the drain holes into the tunnel, grouting for groundwater cutoff is acceptable and shall be considered incidental to the work.**”
5. **REPLACE** Paragraph 4.m of Article 24.07.07.D Work Drawings and Method Statements, and item no. 10 of Addendum No. 2 with the following:
 - “m. **Procedures and locations for drilling and casing grout holes for groundwater cutoff and proposed inject pressures.**”
6. **REPLACE** Paragraph A in Article 43.12.02 Materials with the following:
 - “A. Contractor shall furnish and install granite cobblestone pavers ~~and rock mulch material~~ as shown on the Drawings, (PL-1 and PL-2) as specified in these Specifications, and as directed by the Engineer. Contractor shall obtain required products from a single manufacturer. Contractor shall furnish a soil sterilant, dichlobenil, complying with Section 20-1.02C, “Pesticides,” of the State Standard Specifications, except recommendations from a Pest Control Adviser will not be required.”
7. **REPLACE** Paragraph D in Article 43.12.02 Materials with the following:
 - “D. Contractor shall furnish topsoil complying with Section **21-2.02C**, “**Imported Topsoil**,” of the State Standard Specifications. Imported topsoil shall consist of sandy loam, sandy clay loam, loam or clay loam, where the topsoil is free of subsoil, roots, grass, excessive number of weeds, stone, and foreign matter; acidity range (pH) of 5.5 to 7.5.”
8. **REPLACE** Paragraph F.16 of Article 43.12.02 Materials with the following:
 - “16. Contractor shall install the Gate Valve(s) in accordance with the Drawings and as directed by the Project Engineer. Gate Valves shall be grouped together where practical, one (1) valve per box. **Gate Valves model shall be Red-White 280B Bronze Gate Valve unless indicated otherwise.**”

9. **REPLACE** Paragraph C of Article 43.12.03 Placement with the following:
- “C. Hardscape paving – cobblestone pavers and ~~Type 2 Paving~~—rock mulch shall be installed in accordance with the manufacturer’s recommendations as shown on the Drawings and as directed by the Engineer. Soil sterilant shall be used in accordance with the manufacturer’s directions on the subgrade prior to installing the hardscape paving. Immediately after application of spray solution, thoroughly incorporate the solution into the soil to a depth of 2 to 4 inches per manufacturer’s current printed specifications. After completion of soil sterilization, compact subgrade to a minimum of 90 percent. Contractor shall avoid over-spraying, spraying on walls or areas to receive planting.”
10. **REPLACE** Paragraph C of Article 43.12.05 Submittals with the following:
- “C. Contractor shall submit to the Engineer and City of Morgan Hill for review and approval four (4) granite cobblestone pavers and a 5 lb. sample of rock mulch material.”

DRAWINGS

11. **REPLACE** on Sheet HAIP-1 (Page 169 of 179), Point of Connection (P.O.C.) Location callout with the following:
- “AT **NEW 8” WATER MAIN (SEE SHEET C-3F)** LOCATION AT STATION POINT 620+50, CONTRACTOR SHALL INSTALL HOT TAP AND SUPPLY LINE PER CITY OF MORGAN HILL STANDARDS. CONTRACTORS SHALL INSTALL NEW WATER METER PROVIDED BY CITY OF MORGAN HILL WATER UTILITY. COORDINATE WITH THE CITY MINIMUM OF SEVEN DAYS PRIOR TO METER INSTALLATION. STATIC WATER PRESSURE AT EXISTING SERVICE STUB IS 65 PSI WITH A MAXIMUM DEMAND OF 20 GPM. CONTRACTOR SHALL VERIFY STATICE PRESSURE AT P.O.C. PRIOR TO CONSTRUCTION.”
12. **DELETE** on Sheet IR-1 (Page 175 of 179) Detail E, IRR. CONTROLLER in its entirety.
13. **DELETE** on Sheet IR-1 (Page 175 of 179) Detail D, IRRIGATION WATER METER INFO. In its entirety.
14. **DELETE** on Sheet IR-2 (Page 176 of 179), Irrigation Plan - Section H the following:
- “~~STATION LINE ON THIS SHEET ARE NOT TO SCALE. DO NOT SCALE OR USE STATION LINE TO MEASURE DISTANCE. REFER TO SHT. _____ THRU _____, HORIZONTAL CONTROL PLANS FOR EXACT LOCATION. STATION LINE ON THIS PLAN HAS BEEN OFFSET 10’ FOR CLARITY.~~
- SCALE: 1” = 20’-0” ”
15. **ADD** new Sheet IR-2A (Page 176A of 179), please see ATTACHMENT NO. 2.
16. **REPLACE** on Sheet PL-1 (Page 177 of 179), Planting Notes, General Planting Information E.2 with the followings:

“2. CONTRACTOR SHALL SUPPLY TREES, SHRUBS, GROWDCOVERS OF THE SPECIES & SIZE SPECIFIED ON SHT'S. PL-1 **AND PL-2**. CONTRACTOR TO PROVIDE NURSERY ORDER SLIPS TO LAND. ARCH. W/I 30 DAYS OF THE CONTRACT APPROVAL TO ENSURE THE PURCHASE OF SPECIFIED PLANTS. CONTRACTOR IS RESPONSIBLE FOR SECURING & CARING FOR PLANT MATERIAL UNTIL INSTALLATION ON-SITE.”

17. **DELETE** on Sheet PL-2 (Page 178 of 179) Planting Plan – Section H the following:

~~“ STATION LINE ON THIS SHEET ARE NOT TO SCALE. DO NOT SCALE OR USE STATION LINE TO MEASURE DISTANCE. REFER TO SHT. HC 1 THRU. HC 5, HORIZONTAL CONTROL PLANS FOR EXACT LOCATION. STATION LINE ON THIS PLAN HAS BEEN OFFSET 10' FOR CLARITY.~~

~~SCALE: 1" = 30' 0" ”~~

GENERAL QUESTIONS AND RESPONSES

Question 1. (March 10, 2021)

Refer to sheet PL-1, Plant Legend shows (1) symbol for both 15-gallon Quercus Agrifolia & 15-gallon Quercus Lobata. Please specify the quantity of these two species for bidding purposes.

Response 1.

Two (2) 15-gallon Quercus Agrifolia or Two (2) 15-gallon Quercus Lobata are acceptable. Please refer to Sheet PL-2 for the location of the required species and spacing, if applicable.

Question 2. (March 10, 2021)

Refer to specs section 43.12.03/N.13, please provide the application rates for Maintenance fertilizer.

Response 2.

Contractor shall apply fertilizer at a rate of 20 lbs. of fertilizer per 1000 square feet. Please refer to Article 43.12.03.N.13. of the Specifications for type and timing of the application of said fertilizer.

Question 3. (March 10, 2021)

Refer to 43.12.02/D shows topsoil shall comply with section 20-2.02C “Topsoil” of the State Standard Specifications. However, in the State Standard Specifications, “Topsoil” (“Imported Topsoil”) is 21-2.02C. Please confirm the specs section number of “Topsoil” is 21-2.02C.

Response 3.

Please see item no. 7 of Addendum no. 6.

Question 4. (March 10, 2021)

Refer to sheet HAG-4, the typical section station 46+00.00 to 49+03.03 shows 30" depth of topsoil at 8' wide median. Please confirm this topsoil is the topsoil-compost mixture as shown in specs sections 43.12.02/D & 43.12.03/B.

Response 4.

Confirmed.

Question 5. (March 10, 2021)

Refer to specs section 43.12.03/B, there is no depth of topsoil-compost mixture provided. Please specify the depth of topsoil-compost mixture at planting areas (not included at the median).

Response 5.

As shown on PL-1, C General Legend, 2 Plan View, the amended planting soil or topsoil – compost mixture shall be in accordance with Article 43.12.03.B. (compost at a rate of 2.5 lbs. per cubic yard of topsoil) and shall be a minimum of 12" deep. Additionally, please see Sheet HALPD-1 Detail 1, Shrub Planting for direction on plant hole requirements.

Question 6. (March 10, 2021)

In the specs 43.12, there are no application rates of soil amendment for soil preparation. However, refer to sheet PL-1, detail B shows 12" min depth. of amended planting soil for the entire area. Please provide the materials & application rates of soil amendments for soil preparation. Otherwise, we suggest not to include the soil amendments because all planting areas are supposed to be filled with imported topsoil and compost mixture already.

Response 6.

Please see response to Question 5 of Addendum No. 6.

Question 7. (March 10, 2021)

Refer to sheet HAD-1, Bioretention Swale Detail shows Permeable soil. Please provide the specific specs which shows the material for Permeable soil for bidding purposes.

Response 7.

Permeable soil to be installed within the Bioretention Swale shall be referred to as amended planting soil and in accordance with Article 43.12.03.B. of the Specifications. Please see response to Question 5 of Addendum No. 6.

Question 8. (March 10, 2021)

Refer to PL-1, Planting Note E.2 shows "Contractor shall supply trees, shrubs, groundcovers...on sheet PL-1 through PL-6. However, the bid documents only have sheets PL-1 & PL-2. Please confirm the Landscape contractor only supplies the trees, shrubs & groundcovers as shown on sheet PL-1 & PL-2 and shall not be responsible for any plant material not shown on these plans.

Response 8.

Correct. Contractor shall supply trees, shrubs, groundcovers for sheets PL-1 and PL-2 only. Please see response to Question 1 and please see item no. 16 of Addendum No. 6.

Question 9. (March 10, 2021)

Refer to specs section 43.12.03/N.11 shows install (2) layers of landscape fabric under bark mulch. However, refer to sheet PL-1, the landscape fabric note shows only (1) layer. Please clarify how many layers of landscape fabric under bark mulch.

Response 9.

Please install two (2) layers of landscape fabric under the bark mulch in accordance with Article 43.12.03.N.11 of the Specifications. Technical Provisions have precedence over the Drawings/Plans in accordance with Article 2.01.D. of the Specifications.

Question 10. (March 10, 2021)

Please provide the specifications for concrete mortar bed under river washed cobbles as shown on sheet PL-2.

Response 10.

Concrete mortar bed under the river washed cobbles shall be Class 3 concrete with a strength of 3,000 psi (at 28 days), at a minimum, with a maximum water/cement ratio of 0.5 in accordance with Section 90 of the State Specifications.

Question 11. (March 10, 2021)

Refer to specs section 43.12.02/A shows furnish & install cobblestone pavers and rock mulch...as shown on sheet PL-1 & PL-2. However, there is no rock mulch shown on these sheets. Please confirm rock mulch is not included in this project.

Response 11.

Rock mulch is not required for this project. Please see item no. 6, 9, and 10 of Addendum no. 6.

Question 12. (March 10, 2021)

Refer to sheet PL-2 & IR-2, there are notes that show "station line on this sheet is not to scale....Refer to sheet HC-1 through sheet HC-5, Horizontal Control Plans for the exact location...". However, there are no Horizontal Control Plans HC-1 through HC-5 provided in the bid document. Please provide these sheets for scale reference.

Response 12.

Please see item no. 14 and 17 of Addendum No. 6. Please refer to the other Hale Avenue layout sheets, including HACD-4 (page 142 of 179). Plant location and spacing shall be as shown on the planting plan.

Question 13. (March 10, 2021)

Refer to sheet IR-1, E. IRR. CONTROLLER note shows include (2) spare wires for the controller C1. However, this Rainmaster controller is a 2-wire controller. Besides, refer to specs section 43.12.02/F.18.g also shows requirement for additional wires. Please confirm no spare wires shall be installed for the 2-wire controller.

Response 13.

Spare wires are not required. Please see item no. 12 of Addendum No. 6.

Question 14. (March 10, 2021)

There is no irrigation detail for the irrigation system shown on sheet IR-1 & IR-2. Please provide.

Response 14.

Irrigation details are shown on the Hale Avenue Irrigation Detail Sheets HAID-1 through HAID-3 (Page 170 to 172 of 179). Additionally, please see new sheet IR-2A (Page 176A of 179) item no. 15 of Addendum No. 6.

Question 15. (March 10, 2021)

There is no detail for 15-gallon trees as shown on sheet PL-1 & PL-2. Please provide.

Response 15.

Please refer to City of Morgan Hill Standard Detail L-15 for trees.

Question 16. (March 10, 2021)

Refer to sheet HAIP-1, Irrigation Notes shows the Irrigation supply line from the water service connection to the 1" water meter is copper type K pipe 2" size. However, refer to sheet HAID-1, detail 1 shows the supply line from the water service connection to the water meter is 1" size. Please clarify the size of the Irrigation supply line between water meter and water connection.

Response 16.

Supply line shall be 2" size in accordance with Detail 1, Water Service Installation on HAID-1 (Sheet 170 of 179). Note 2 for the service line states, 1" service line shown, but calls out copper to use if 2" is specified; typical detail still applies.

Question 17. (March 10, 2021)

Refer to sheet HAIP-1, Irrigation Notes shows gate valve without model. Please provide the model for gate valve shown on this sheet.

Response 17.

The model for the gate valve shall be Red-White 280B Bronze Gate Valve. See item no. 8 of Addendum No. 6.

Question 18. (March 10, 2021)

Refer to sheet IR-1, A. Irrigation Equipment Legend shows Matco Gate valve. However, this gate valve is not shown on plan. Please confirm there is no gate valve for the irrigation system shown on sheet IR-2.

Response 18.

Correct, Matco Gate valve is not required for the irrigation system shown on sheet IR-2 (page 176 of 179).

Question 19. (March 10, 2021)

Refer to sheet IR-1, A. Irrigation Equipment Legend shows symbols for POC, Backflow preventer, & water meter "M2". However, these items are not shown on plans. Please confirm:

- a. The point of connection for the mainline & lateral line at station 46+00 from the adjacent irrigation system is existing irrigation system on-site, available and in good condition for the new irrigation system on sheet IR-2 to connect to. (We notice that on sheet HAU-1 shows the Hale avenue extension is by others.)
- b. The water meter "M2" & backflow preventer belong to the adjacent irrigation system on Hale Avenue extension by others.

Response 19.

Connection of irrigation water meter, controller and backflow preventer shown on sheet PL-2 (page 178 of 179) is provided by others, so therefore not included in this project.

Question 20. (March 10, 2021)

Refer to sheet IR-2, control valves numbers show their controller is C1. However, the controller C1 is not shown on plan. Please clarify the way to run the wires for control valves C1-59 through C1-65.

Response 20.

Controller C1 is located within the City's Hale Avenue Extension Project south of Station H-Line 46+00 and will be constructed by others (City's Contractor). Controller C1 will be installed by the City's Contractor south of Station 46+00 including the wires leading from the Controller C1 to Station 46+00. In accordance with Article 14.03.01.D.4 of the Specifications, the Contractor for the Upper Llagas Creek Flood Protection Project

Phase 2A shall be responsible for coordination with the City's contractor for schedule and location to connect the control valves to the wires leading from Controller C1.

Question 21. (March 10, 2021)

Refer to sheet IR-2, there are symbols that look like caps for pipelines. Please take a look at the image on the next page and clarify what these symbols are as they are not shown on irrigation legend.

Response 21.

The City's Hale Avenue Extension Project south of Station 46+00 will be constructed by others (City's contract contractor). Since it is anticipated the City contractor will complete their portion of the Hale Avenue Extension prior to District's portion of Hale Avenue Extension being constructed, the City's contractor is to install the utilities to the location shown on the Drawings, including sheet IR-2 (page 176 of 179), where utility caps will be installed. The District Contractor shall coordinate with the City's contractor to connect to these utilities and remove the caps as required in accordance with Article 14.03.01.D.4 of these Specifications.

Question 22. (March 11, 2021)

Refer to addendum #4, Bid form shows the unit of measurement for bid item #22-17 Erosion Control Hydroseed is 32 one-eighth (1/8) Acre. The quantity on plan is 11,614 Square feet. Please clarify the meaning and how to measure the quantity by this unit. Otherwise, we suggest the unit of measurement for this bid item shall be by square feet.

Response 22.

Hydroseed shall be measured and paid for per 1/8 acre in accordance with Article 22.09 of the Project Specifications. Please note that the hydroseed shown on the plans is only a portion of the hydroseed required for the project. Hydroseed shall be in accordance with Article 22.09 of the Project Specifications. 1/8 acre is equivalent to 5,445 square feet.

Question 23. (March 11, 2021)

Please specify the depth of 4"-8" river washed cobble set in concrete (cobblestone paver) as shown on sheets PL-1 & PL-2 for bidding purposes.

Response 23.

Please refer to City of Morgan Hill Standard Detail A-27 for cobbles.

Question 24. (March 11, 2021)

Refer to specs section 43.07.02/ point F shows seed material for the bio filtration swale. In addition, specs section 43.07.03/ point F.1 shows "The Contractor shall plant the seeds and liner plants within the swale...". Refer to sheet PL-2, within the bio filtration area, there is no symbol for seed shown. Please confirm that besides the plants shown within the bio filtration area on sheet PL-2, we will also do the seed broadcasting at this location.

Response 24.

Yes, biofiltration swales are to have hydroseed. Hydroseeding shall in accordance with and paid for per Article 22.09 "Erosion Control Hydroseeding – Bid Item No. 22-17" of the Specifications and in compliance with the Regulatory permits included in Appendix B of the Specifications

Question 25. (March 11, 2021)

Please clarify which bid item shall get paid for permeable soil, drain rock, geomembrane water barrier & 6" underground perforated pipe as shown in the Bioretention Swale Detail on sheet HAD-1.

Response 25.

Items shall be paid for in accordance with Article 43.07 HAE - Drainage Facilities, Bid Item No. 43-4.

Question 26. (March 11, 2021)

Refer to sheet PL-2, there are symbols at the locations of 15-gallon Quercus Agrifolia trees at hydroseed area within the detention basin that look like 1-gallon Deschampsia C. Holciformis. Please confirm that these symbols denote for 1-gallon Deschampsia C. Holciformis

Response 26.

Yes, 1-gallon Deschampsia C. Holciformis are to be installed by the detention basin, but not within the detention basin.

Question 27. (March 9, 2021)

Can the bid date be postponed by at least two weeks?

Bid date of the ADTP is set to be March 24, 2021, and is a week after the bid due deadline for the Upper Llagas Creek Flood Protection Project. Both projects are SCVWD projects.

Having two bids for two major projects occurring nearly at the same time may result in our not being able to provide a quote for both projects. We would like to be able to provide quotes for both if an extension is given. Additionally, many of the vendors and permanent material suppliers do not want to release prices too soon.

Trying to close out an estimate with quotes coming in at the last minute is hectic and could result in errors in the bid items and totals and minimize the possibility of mixing up of the quotes from vendors for both of the projects bidding at nearly the same time.

Response 27.

Bid opening has been extended to March 24, 2021, please see item no. 1 of Addendum No. 5.

Question 28. (March 9, 2021)

Attached to this email is detail plan C-18. On the revised bid item list per addendum 4, there isn't a bid item for the 4' high chain link fence. Can you clarify if this fence will go under bid item 28-2 Black Vinyl Coated Chain Link Fence or bid item 28-1 Uncoated chain link fence.

Response 28.

Please refer to Article 28.01.01.B, unless noted otherwise all chain link fence shall be black vinyl coated. Payment for the 4-foot fence shown on C-18 shall be included in the Ciolino Improvement Area Bid Item No. 41-15 in accordance with article 41.01.08 of the Specifications.

Question 29. (March 9, 2021)

Attached to this email is detail plan S-10 & C-18. I scaled 200' LF of 4' high chain link for the East and West Wing Hall per detail plan S-10 & C-18. Please verify and confirm the LF of the 4' high chain link fence needed for this project.

Response 29.

Please see Sheet S-10 and C-15, there is approximately 222+/- LF of 4-foot high chain link fence shown.

Question 30. (March 12, 2021)

We wanted to pass along that we have received a number of queries from subcontractors and suppliers regarding a bid date extension. Some of the subs & suppliers have indicated that they have question which have been submitted and not yet answered and to be frank are panicking about their ability to wrap up their bids. The bid documents for this project are very, very involved and I know that everyone is slightly uncomfortable given that unique nature of this project, involvement of outside regulatory agencies and the structure of the bid (primarily lump sum bid items). We would suggest, once you publish the last set of answered questions, that at the same time you extend the bid date by at least a week. An extension would improve the quality of subcontractor and material bid proposals and at the same time prevent subs from 'loading-up' on bid prices due an unease regarding their preparedness. In general a bid extension would most likely help everyone's overall comfort level with their bids.

Response 30.

Bid opening has been extended to March 24, 2021, please see item no. 1 of Addendum No. 5.

Question 31. (March 15, 2021)

Refer to addendum #4, Bid form shows the unit of measurement for bid item #22-17 Erosion Control Hydroseed is 32 one-eighth (1/8) Acre. The quantity on plan is 11,614 Square feet. Please clarify the meaning and how to measure the quantity by this unit. Otherwise, we suggest the unit of measurement for this bid item shall be by square feet.

Response 31.

See Response to Question 22 of Addendum No. 6.

Question 32. (March 15, 2021)

Please specify the depth of 4"-8" river washed cobble set in concrete (cobblestone paver) as shown on sheets PL-1 & PL-2 for bidding purposes.

Response 32.

See Response to Question 23 of Addendum No. 6.

Question 33. (March 15, 2021)

Refer to specs section 43.07.02/ point F shows seed material for the bio filtration swale. In addition, specs section 43.07.03/ point F.1 shows "The Contractor shall plant the seeds and liner plants within the swale...". Refer to sheet PL-2, within the bio filtration area, there is no symbol for seed shown. Please confirm that besides the plants shown within the bio filtration area on sheet PL-2, we will also do the seed broadcasting at this location.

Response 33.

See Response to Question 24 of Addendum No. 6

Question 34. (March 15, 2021)

Please clarify which bid item shall get paid for permeable soil, drain rock, geomembrane water barrier & 6" underground perforated pipe as shown in the Bioretention Swale Detail on sheet HAD-1

Response 34.

See Response to Question 25 of Addendum No. 6.

Question 35. (March 15, 2021)

Refer to sheet PL-2, there are symbols at the locations of 15-gallon Quercus Agrifolia trees at hydroseed area within the detention basin that look like 1-gallon Deschampsia C. Holciformis. Please confirm that these symbols denote for 1-gallon Deschampsia C. Holciformis.

Response 35.

See Response to Question 26 of Addendum No. 6.

Question 36. (March 15, 2021)

Refer to sheet CS-101, there is a riprap area at the concrete overflow spillway, that is adjacent to the retention basin without any call-out. We do not know which detail shall be applied for this area. Please specify the detail to be applied for it.

Response 36.

Sheet "CS-101" is not a sheet included in the Upper Llagas Phase 2A contract. Please refer to Section 30, Slope Protection, for rock slope protection requirements.

Question 37. (March 15, 2021)

Refer to sheet CG-503, detail C13 does not specify the depth for the rock layer above the infiltration gallery. Please specify the depth for this rock layer at 2311.5' elevation.

Response 37.

Sheet "CG-503" is not a sheet included in the Upper Llagas Phase 2A contract, nor do we have any improvements at elevation 2311.5 feet.

Question 38. (March 15, 2021)

Hale Ave. Sheet IR-1 Irrigation Notes and Legend Detail D shows 2 Irrigation Meters M1 & M2 and Detail E - Controller C1. Installation drawing Sheet IR-2 shows no point of connection, meter for the irrigation mainline or a controller. It appears this was to be installed further South on Hale extension which is not part of this project. There is a point of connection, meter and controller on sheet HAIP-1 but this has no extension across West Main and appears to be intended for a whole separate system. (Controller A).

Response 38.

Please see item no. 12 and 13 of Addendum No. 6.

Question 39. (March 15, 2021)

Addendum No. 5 allows for steel fibers to be used (Paragraph A.7 of Article 24.09.03).

Synthetic Fibers are becoming more & more prevalent on Tunnel & Mine projects and industry standards allow for use as an alternate to steel fibers. Will you allow Synthetic Fiber as an alternate to steel fiber?

*Synthetic fibers must adhere to the same strength/yield requirements as steel fibers.

*Synthetic fiber will not corrode in a water tunnel.

*Synthetic fiber is safer to use and generally more cost efficient.

Response 39.

No. For a permanent structure, steel fibers are a consistent alternative with the welded wire fabric and the performance criteria established for the final lining. Use of synthetic fibers is not allowed.

Question 40. (March 15, 2021)

According to Spec section 24.04.04.08, we are required to place one seismograph inside the tunnel. Please clarify the purpose of the seismograph in the tunnel and if it is required to be moved as we progress in the tunnel.

Response 40.

The vibration monitoring devices (seismographs) are intended to monitor the air blast pressure and vibrations from each blast. Devices are located at/near the source, at the portal, and on the surface to collect meaningful data. The locations of the devices are to be established as part of the Blasting Plan as identified in Section 24.08.05.B.3.d. The Contractor's Vibration Monitoring Specialist is to be on site to position and operate the seismographs per Section 24.08.04.D.

Question 41. (March 15, 2021)

We observed from the Water Pumping Tests that only one location out of 14 that took some water. How much would any location would take a type III cement slurry is very questionable at best.

Sheet Nos. TU-5 and 6, show injections at 5 X 5 ft. If Section A, TU-4 to hold true (i.e., that the grout bulbs touch as shown) the spacing will need to be not more than 3 X 3 ft.

For these applications the grout bulbs must touch and create one mass.

If the injections are at 5 X 5 ft, each stage will take huge grout quantities to make the touch as shown in TU-4. At a porosity of 27%, and a stage spacing of not more than ONE FOOT in the vertical direction, we have to pump 50 gallons or 250 gallons in a 5-ft zone. Such quantities are NOT only impossible to inject in such location, but if injected will go stray rather than as shown in Section A, of TU-4. What further aggravates things is to pump only the primaries, which are every other injection at ten feet apart, 500 gallons in 5ft zone will be needed. This is not possible for the given site conditions.

If the primaries are injected and the tunnel settlements start showing up, there is no way that you can inject more such grout in loosened or lost soils. When settlements start, you shall need Compaction Grout. Hence the remaining secondary injections are useless for compaction grout.

If a pre-excavation grouting approach is to be used, you need to reduce the injection spacing to 3 X 3 ft, use microfine cement and inject all the points before any tunneling.

Response 41.

The design incorporates the available geotechnical information.

Question 42. (March 15, 2021)

The Q&A response to Question 5 in Addendum 5 seems to be in contradiction with the specifications. Bid Item 24-2 is measured and paid for each Grout hole drilled and connected (emphasis added). The response to Question 5 introduces a possible scenario where a number of grout holes may never be grouted if ground movement is not detected. Please clarify how the Contractor will be compensated for grout holes

drilled, but not connected? Alternatively, please confirm that Q&A responses do not modify the specifications and that the specifications will govern.

Response 42.

All grout holes would be drilled and connected to. Half of the holes will be used for grout injection before tunneling. The other half will either be used for grout injection or filled and decommissioned. Please item no. 42 and 43 of Addendum No. 5 for the modification of the contract documents for the response to Question 5 in Addendum No. 5.

Question 43. (March 15, 2021)

The Q&A response to Question 6 in Addendum 5 describes additional grouting to be performed in Secondary grout holes “concurrently with the tunneling” when “ground movement is detected”. This seems to contradict specification 24.05.06.01.F which requires the Contractor to “stop tunneling and drill new grout holes” and to “use new grout holes to inject grout.” Please clarify the threshold of ground movement that will require grouting of secondary grout holes? Presumably, this will be a lower threshold than the “Action Trigger Levels” referenced in Specification 24.05.06.01.F.

Response 43.

Section 24.05.06.01.F has been modified for consistency. Section 24.04.02.B defines when corrective actions are required. Please see item no. 2 of Addendum No. 6.

Question 44. (March 15, 2021)

Paragraph G of Article 24.05.05 (as modified by Addendum 5 indicates requirements for temporary surface restoration “after grout sleeves have been removed”. We cannot find any references in the Contract to removal of grout sleeves. Please clarify the requirement to remove grout sleeves. Will complete extraction of grout sleeves be required?

Response 44.

Complete extraction of the grout sleeve will not be required. It is a requirement to remove the portion of the grout sleeve near the surface of the road. Please see item no. 3 of Addendum 6.

Question 45. (March 15, 2021)

Addenda 5, response 8 was cutoff

Response 45.

The remaining response to Question 8 of Addendum No. 5 is as follows: Contractor’s attention is directed to item No. 12 and 13 of Addendum No. 5.

Question 46. (March 15, 2021)

Addenda 5 includes revised sheets PP-10 (page 43) and C-14 (page 73). Notes 7 and 10 respectively require us to restore landscaping to pre-existing conditions "or better." There are numerous mature trees in this area that will be removed and a lot of bare ground between 580+90 and 582+00. We assume "or better" is a few handfuls of grass seed.

Response 46.

Please refer to Sheet D-10 (page 35) for the existing trees to be removed and for those trees to be protected in place during construction in accordance with Article 22.02 of the Specifications. The words "restore landscaping" on PP-10, Note 7 (page 43) and C-14, Note 10 (page 73) shall refer to hydroseeding and be paid for in accordance with Article 22.09 "Erosion Control Hydroseeding – Bid Item No. 22-17" of the Specifications and in compliance with the Regulatory permits included in Appendix B of the Specifications.

Question 47. (March 15, 2021)

Please provide the full response to question 8, " Addendum #3, Item No. 7 - Can Owner specify the size of reinforcement required in final shotcrete?".

Response 47.

Please see item no. 12 and 13 of Addendum No. 5 for final lining shotcrete reinforcement.

Question 48. (March 15, 2021)

TU-5 - We are concerned that the drilling techniques for the grout pipes will disturb the soil at the tunnel crown. Drilling with water will likely compromise the stability of the tunnel Crown. Please specify a drilling technique to prevent damage.

Response 48.

The drilling of the hole for the grout pipes is part of the Contractor's means and methods. The drilled ground will be subject to grouting for ground improvement and stability.

Question 49. (March 15, 2021)

Addendum 5 Response to question 39 - If the ground settles and causes damage and the grouting specified does not correct the issue, will a change order be issued for corrective measures and remediation?

Response 49.

Valley Water cannot comment on hypotheticals.

Question 50. (March 15, 2021)

Addendum 5 Response to question 66 - Please direct us to where the criteria and procedures for pre-excavation grouting are provided in the contract documents.

Response 50.

The Contractor is allowed to do grouting from within the tunnel to control groundwater inflows but is not required to grout. The Contractor is responsible to control the groundwater inflows outlined in the GBR. Clarification on the in-tunnel grouting has been added to Section 24.07. Please see item nos. 4 and 5 of Addendum No. 6.

Question 51. (March 15, 2021)

Addendum 5, item 10 - We like many other bidders are also pursuing Anderson Dam. The potential to encounter "Gassy Conditions" is much greater on Anderson Dam than on Llagas Creek. The Anderson Dam documents do not mention or require the use of permissible equipment, why is the use of permissible diesel equipment required on Llagas Creek? Is there some other source of combustible gas that has not been included in the available documents?

Response 51.

Anticipated ground conditions are documented in the contract documents and this Project is requiring the equipment in the tunnel to comply with the requirements for a "gassy" tunnel.

Question 52. (March 15, 2021)

Addendum 5, Item 10 - The item states: "Grouting should be undertaken in stages within a zone. Grout primary holes first before tunneling, followed by secondary holes if ground settlement is detected during tunnel construction." Please clarify if the amount of ground movement refers to action trigger level or maximum allowable movement per Spec Section 24.04.

Response 52.

Yes, the amount of ground movement refers to action trigger level per Article 24.04 of the Specifications. Please also see the response to Question 43 of Addendum No. 6 for additional information.

Question 53. (March 15, 2021)

Please clarify the usage of port, pipe and hole terms as referred to in surface grouting specifications.

Response 53.

Holes are drilled into the ground for the grout pipes (or grout sleeves). The grout pipe (or grout sleeve) is insert into the drilled hole. The grout pipes (or grout sleeves) have openings or ports to allow the release of grout into the ground at different elevations. Packers are used to isolate the zone within the grout sleeve to control which grout port is able to release grout under pressure.

Question 54. (March 15, 2021)

We are having some confusion with the instructions for filling out the bid forms for subcontractors qualifications (bid form 9).

One of the Addenda provided, an answer to a questions in regards to the sheet size to be used for the qualifications bid documents. The response was confusing as well as the question.

We are quoting several generals and instructions say to fill the forms out in ink (page 5). Do we need to do provide separate forms filled out in ink by hand for each of the general contractors we are providing a quote to? (maybe up to 9 general contractors requiring the same information)

Does the District have a "form fill" version of the bid form document for subcontractors qualifications that we can fill in the required information, on which we could save to our main server and submit as a separate PDF attachment to our quote to the general contractors bidding on the project?

Can subcontractors fill in the forms on a word processor and print to a PDF file for transmitting to the general contractors prior to bid time?

Response 54.

Please see the response to Question 7 of Addendum No. 4, an additional page may be used in addition to Bid Form No. 9 and Attachment No. 1 to include the key information required in Bid Form No. 9.

Please see the response to Question 55 of Addendum No. 4, information for Bid Form No. 9 is NOT required to be filled out in ink. The signatures and initials (if needed) are required to be in ink or can be signed using electronic signature using DocuSign or similar methods. Valley Water will not be providing a "form fill" version of Bid Form No. 9. It is up to the bidder to use the appropriate software to incorporate their information on Bid Form No. 9.

It is acceptable for subcontractors to fill out Bid Form no. 9 on a word processor and print to a PDF file for transmitting to the general contractors prior to bid time, provided that the signature on Bid Form No. 9 is an original signature.

Question 55. (March 15, 2021)

On the revised bid item list per addendum 4, there isn't a bid item for the 4' high chain link fence as indicated on detail plan C-18 and S-10. Please verify if the 4' high black vinyl coated chain link fence is to be included in bid item 28-2 Black Vinyl Coated chain link fence?

Response 55.

See response to Question 28 of Addendum No. 6.

THIS ADDENDUM NO. 6, WHICH CONTAINS 19 PAGES AND 2 ATTACHMENTS, IS ATTACHED TO AND IS A PART OF THE SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THIS PROJECT.

DocuSigned by:
Rechelle Blank
0729D65C492A46E...

3/19/2021

Date: _____

Rechelle Blank, P.E.
Deputy Operating Officer
Watersheds Design and Construction Division

Enclosures:

ATTACHMENT NO. 1: REVISED BID FORM NO. 5 – BIDDER’S BOND

ATTACHMENT NO. 2: NEW SHEET IR-2A (SHEET 176A OF 179)

ATTACHMENT NO. 1
REVISED BID FORM NO. 5



This form must be completed in ink and changes must be initialed.

BE IT KNOWN BY THESE PRESENTS,

That we, _____, as PRINCIPAL,
and _____, as SURETY,

are held and firmly bound unto the Santa Clara Valley Water District, hereinafter called the District, in the penal sum of TEN PERCENT (10%) OF THE TOTAL AMOUNT OF THE PROPOSAL of the Principal above named, submitted by said Principal to the Santa Clara Valley Water District, for the work described below, for the payment of which sum is lawful money of the United States, well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents. In no case shall the liability of the surety hereunder exceed the sum of \$_____.

THE CONDITION OF THIS OBLIGATION IS SUCH,

That whereas the Principal has submitted the above mentioned Proposal to the District, for certain construction specifically described as follows, for which Proposals are to be opened at San Jose, California, on _____, 20__, (or such other date as specified per Addendum) for

C0665 – UPPER LLAGAS FLOOD PROTECTION PHASE 2A

NOW, THEREFORE, if the aforesaid Principal is awarded the Contract and, within the time and manner required under the Contract Documents, after the prescribed forms are presented to him for signature, enters into a written contract, in the prescribed form, in accordance with the Proposal, and files originals (copies are unacceptable) of the two bonds with the District, one to guarantee faithful performance and the other to guarantee payment for labor and materials, as required by law, then this obligation shall be null and void; otherwise, it shall be and remain in full force and virtue.

In the event suit is brought upon this bond by the obligee and judgment is recovered, the surety shall pay all costs incurred by the obligee in such suit, including a reasonable attorney's fee to be fixed by the court.

IN WITNESS WHEREOF, we have hereunto set our hands and seal on the _____ day of _____, 20__

PRINCIPAL:

SURETY:

Signature

Signature

Name

Name (Seal)

Title

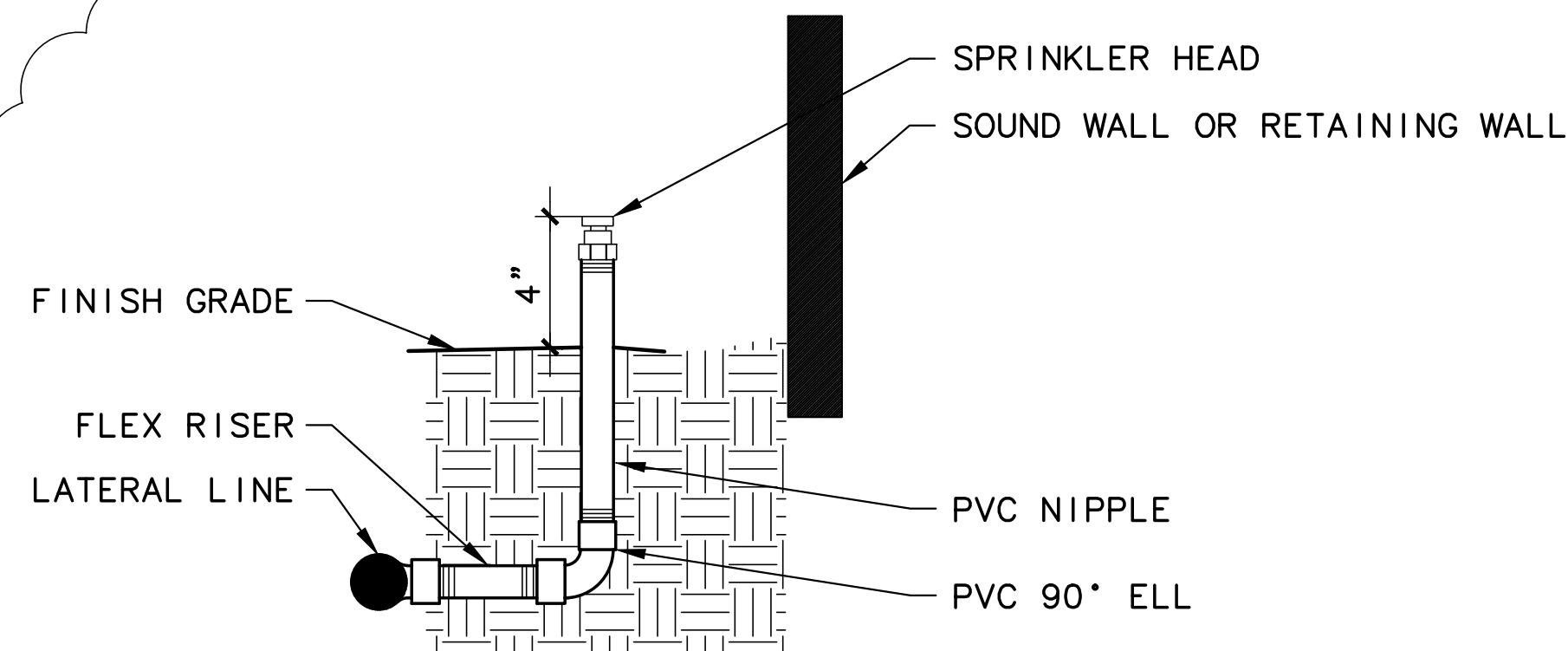
Title

Address

Address

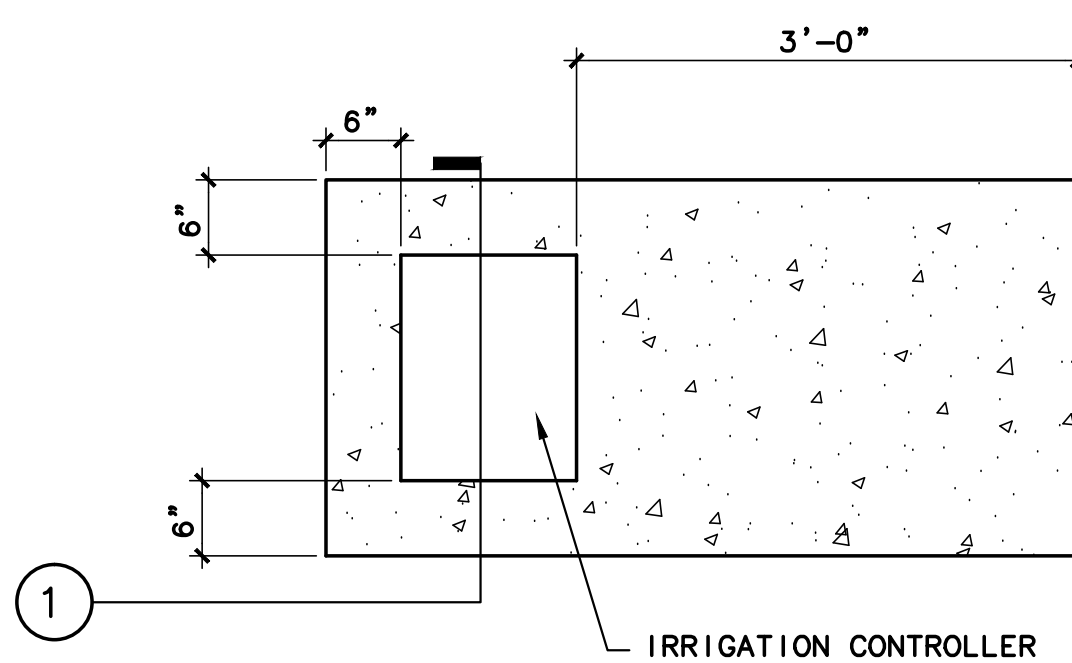
- NOTE: 1. Original Bidder's Bond documents **with embossed seal from the Surety** are required. **Photocopies** are unacceptable **and will result in the Bid submitted being determined non-responsive.**
2. Signature of those executing for Surety must be properly acknowledged.

ATTACHMENT NO. 2
SHEET 1R-2A (SHEET 176A OF 179) DRAWING

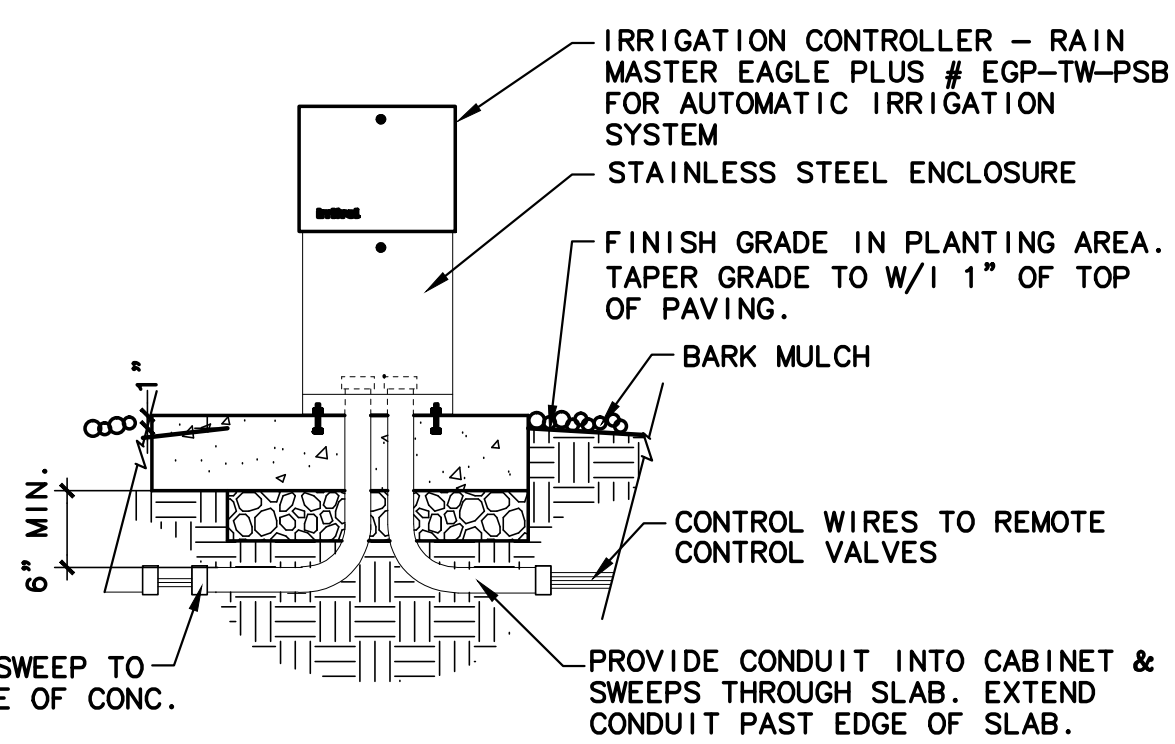


- NOTES:
1. ALL ELEMENTS OF RISER ASSEMBLY SHALL BE AS SHOWN AND OF THE SAME DIAMETER AS THE BASE OF THE HEAD.
 2. ADJUST ARC AND RADIUS TO COVER WITHOUT OVER-SPRAYING ONTO PAVED AREAS OR STRUCTURES.

8 SPRINKLER HEAD RISER @ WALLS NTS

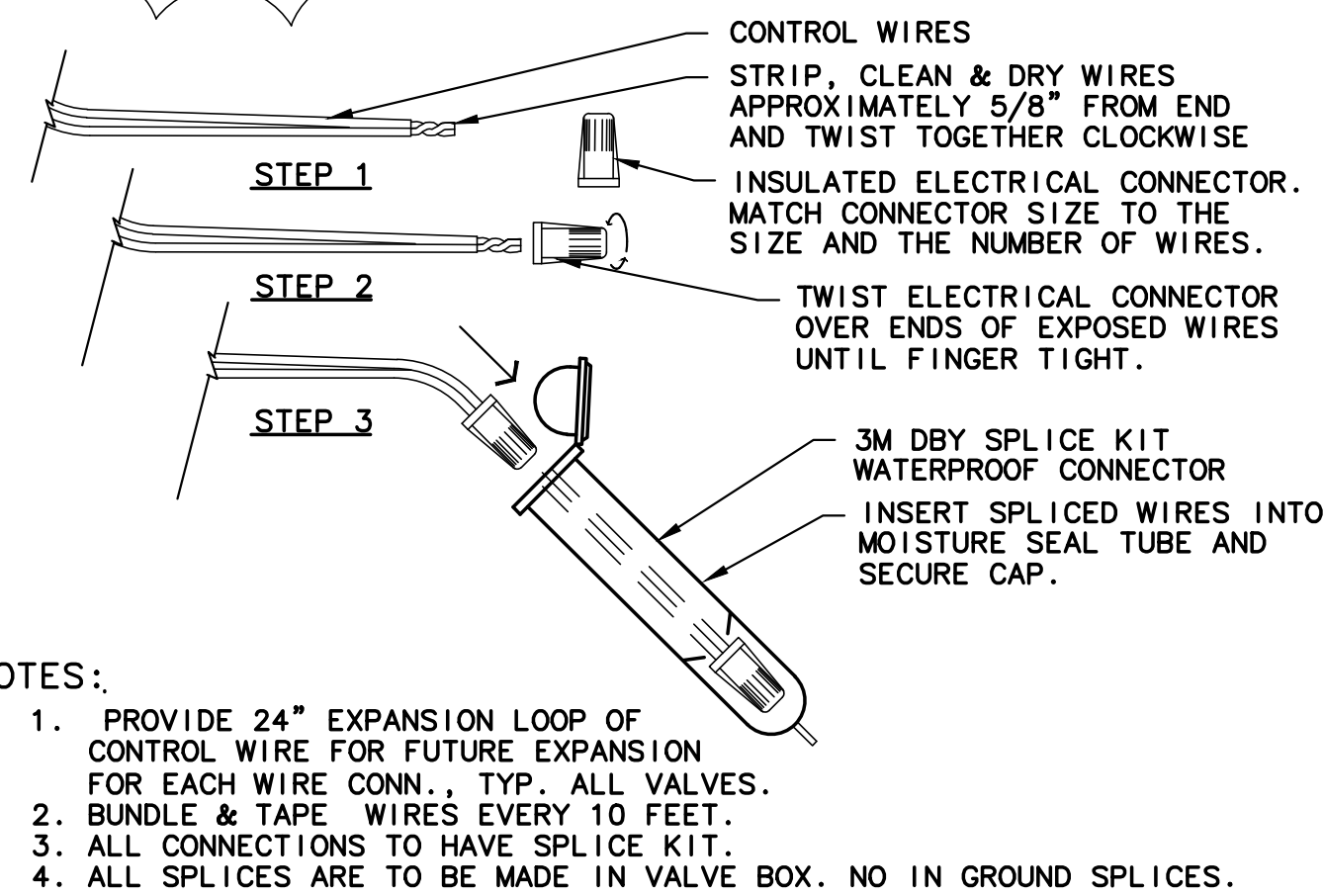


2 PLAN VIEW



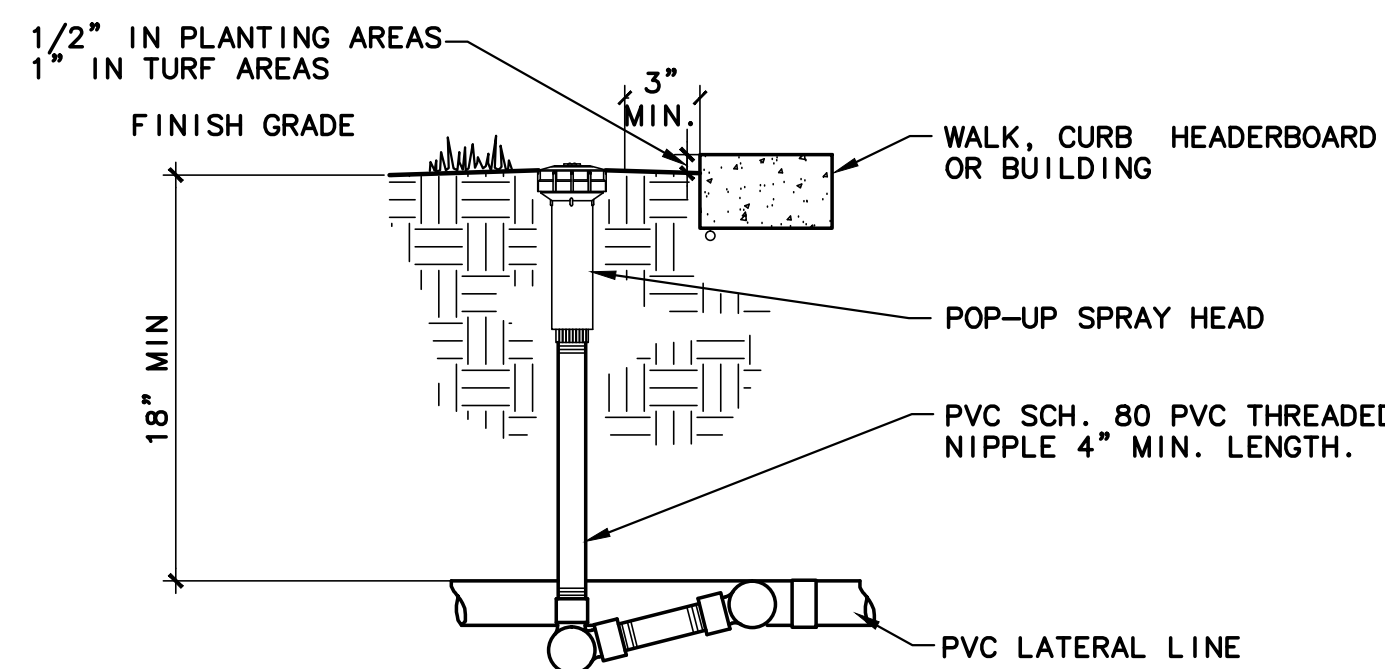
- NOTES:
1. CONTROLLER RAIN MASTER EAGLE PLUS # EGP-TW-PSB (OR APPROVED EQUAL) IN STAINLESS STEEL PEDESTAL ENCLOSURE
 2. ALL ELECT. WORK TO CONFORM TO LOCAL CODES. REFER TO MANUFACTURER'S RECOM.'S FOR ADDITIONAL INFORMATION

7 IRRIGATION CONTROLLER NTS



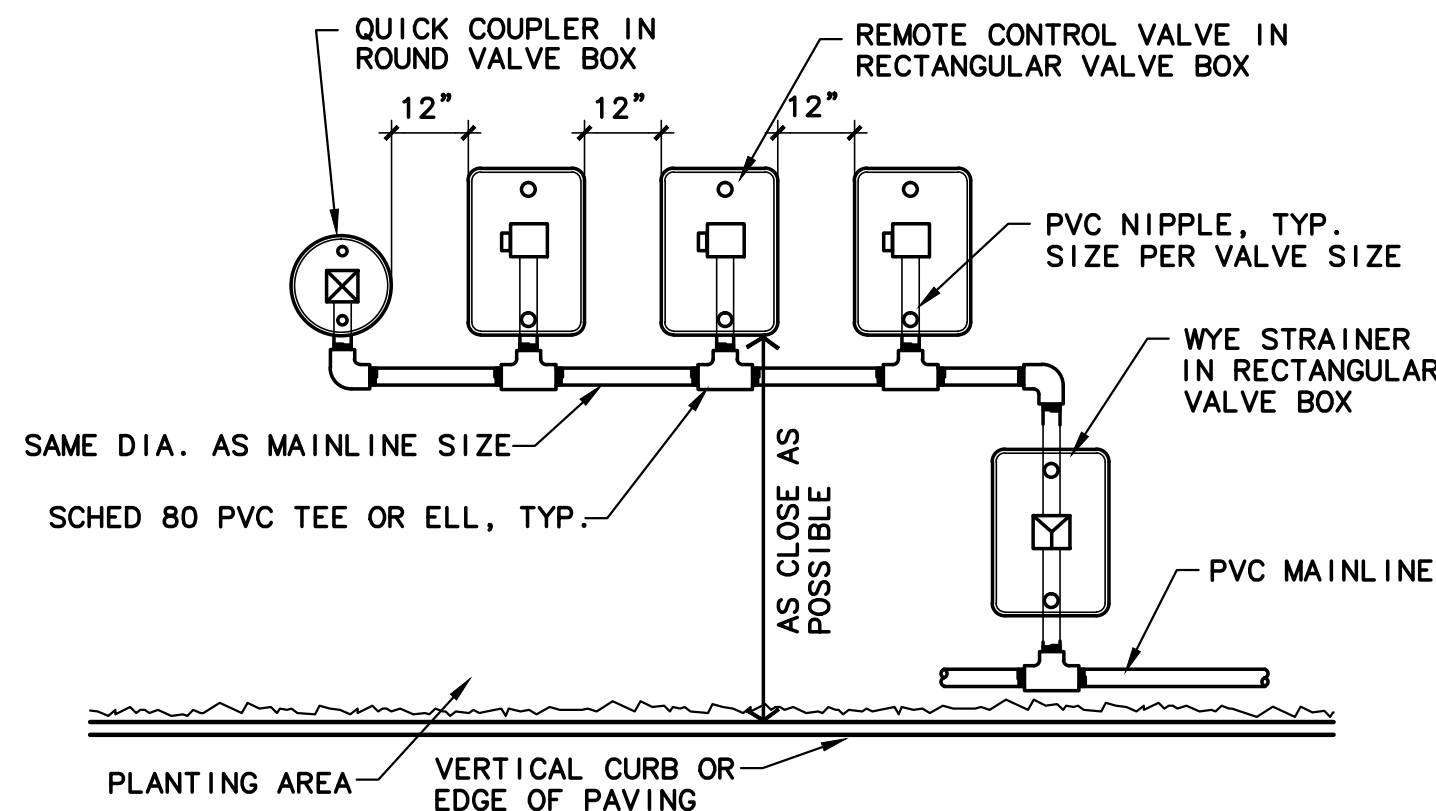
- NOTES:
1. PROVIDE 24" EXPANSION LOOP OF CONTROL WIRE FOR FUTURE EXPANSION FOR EACH WIRE CONN. TYP. ALL VALVES.
 2. BUNDLE & TAPE WIRES EVERY 10 FEET.
 3. ALL CONNECTIONS TO HAVE SPLICE KIT.
 4. ALL SPLICES ARE TO BE MADE IN VALVE BOX. NO IN GROUND SPLICES.

6 WIRE SPLICE NTS



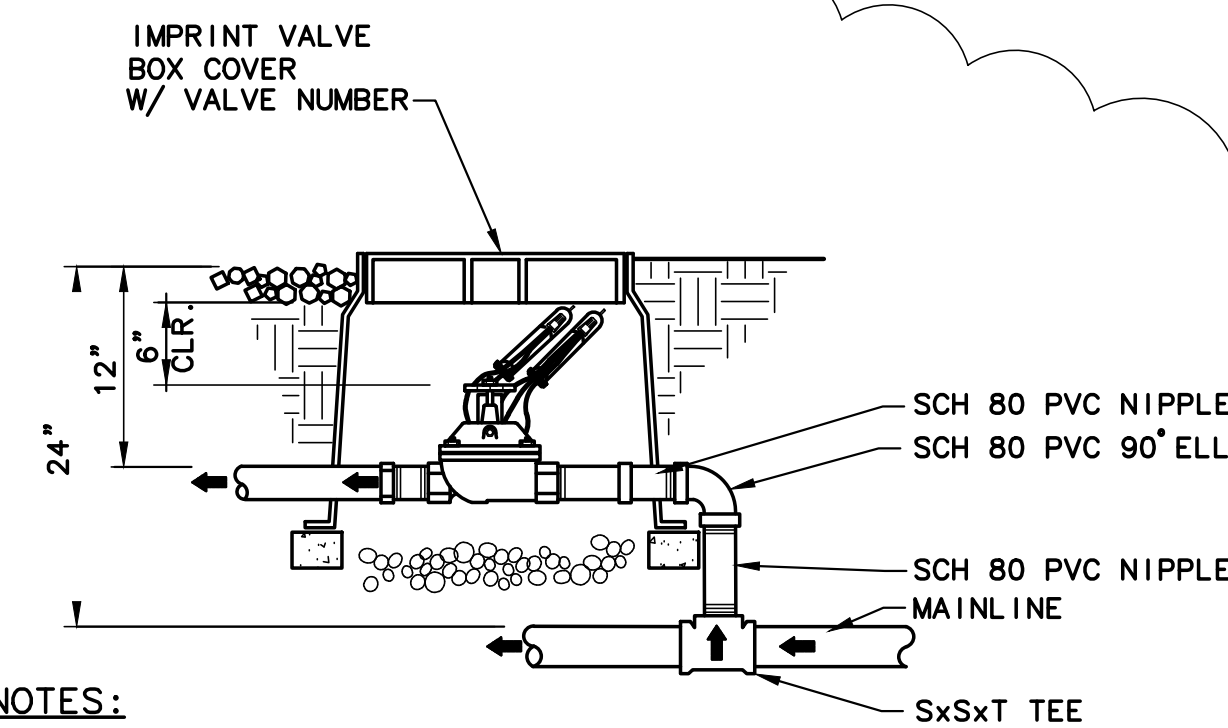
- NOTES:
1. ALL ELEMENTS OF RISER ASSEMBLY SHALL BE AS SHOWN AND OF THE SAME DIAMETER AS THE BASE OF THE HEAD.
 2. INSTALL SPRAYS AND SPRINKLERS FLUSH WITH GRADE.
 3. ADJUST ARC AND RADIUS TO COVER WITHOUT OVER-SPRAYING ONTO WALKWAYS OR PAVED AREAS.

5 POP-UP HEAD NTS



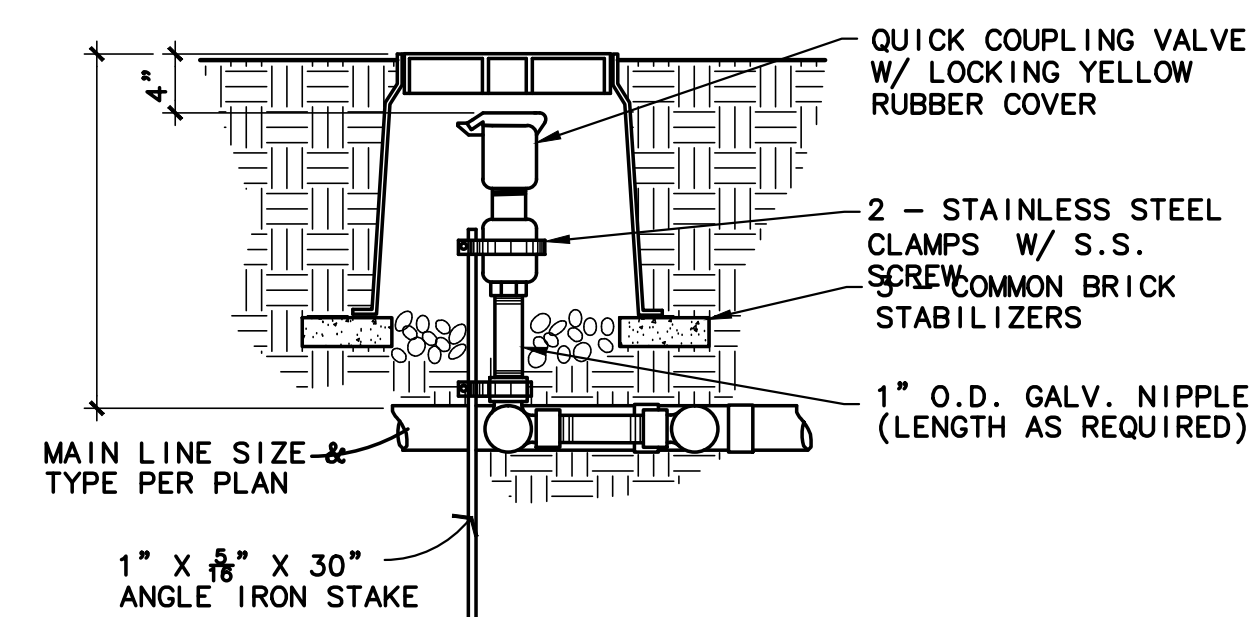
- NOTES:
1. SET BOXES PARALLEL & PERPENDICULAR TO NEAREST EDGE & EACH OTHER.
 2. CENTER BOXES OVER ENCLOSED VALVES.
 3. AVOID OVER COMPACTING SOIL AROUND BOXES TO PREVENT DAMAGING BOX.
 3. SEE STATE OF CALIFORNIA, DEPT OF TRANSPORTATION, STANDARD PLANS, MAY 2006, PLANTING AND IRRIGATION DETAILS, SHEET H7, DETAIL WYE STRAINER.

4 VALVE LAYOUT NTS



- NOTES:
1. LIMIT ONE CONTROL VALVE PER BOX.
 2. NO EARTH FILL INSIDE BOX OR TOUCHING VALVE.
 3. USE TEFLON PASTE THREAD SEALANT ON THREADED CONNECTIONS.
 4. PROVIDE 24" COIL ON 24V LINES. REFER TO WIRE SPLICING DETAIL.
 5. EACH CONTROL VALVE TO HAVE MANUAL BLEED AND FLOW CONTROL.
 6. ADJUST EACH CONTROL VALVE TO OPTIMUM FLOW AS REQUIRED BY THE HEADS.

3 REMOTE CONTROL VALVE NTS



- NOTE:
1. USE TEFLON PASTE THREAD SEALANT FOR THREADED CONNECTIONS.
 2. LOCATE Q.C.V. ADJACENT TO R.C.V. IN GROUND COVER AREAS WHERE POSSIBLE.
 3. LOCATE 12" AWAY FROM ADJACENT BUILDINGS OR FENCES. LOCATE MIN. 6" AWAY FROM ADJACENT SIDEWALKS, CURBS OR HEADERBOARDS.
 4. INSTALL CHECK VALVE AT HEAD LOCATIONS THAT ARE SUBJECT TO LATERAL DRAINAGE.
 5. ALL JOINTS HAND TIGHT TO ALLOW MOVEMENT.
 6. SET TOP OF BOX 1" ABOVE FINISH GRADE IN SHRUB AREAS.

2 QUICK COUPLER NTS



Phoenix Design Group, LLP
Landscape Architecture

SUBMITTED:
GLEN WIERMANSON
W&C TECH MNGR C46659
APPROVED:
XAVIER BRAS
W&C PROJ MNGR C44782



MARK	DESCRIPTION	DATE	APPR
	ADDENDUM 6	3/18/2021	MC

DESIGNED BY:	DATE:	SOLICITATION NO.:	CONTRACT NO.:	FILE NUMBER:
DRAWN BY:	March 2020		C0845	
CHECKED BY:		SCWD PROJECT NO.:	FILE NAME:	
		2817402	22 X 34 017D-HALE-IRR 9-10-20.DWG	



SANTA CLARA COUNTY CALIFORNIA
UPPER LLAGAS CREEK
FLOOD PROTECTION PROJECT
PHASE 2A
HALE AVENUE
IRRIGATION PLAN

SHEET NUMBER
IR-2A
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