

ADDENDUM NO. 2

PROJECT: Reservation Road Desalination Plant Renovation Project, Phase 1

CIP NO.: GW-2404GN

FROM: District Engineer
Marina Coast Water District
920 2nd Avenue, Suite A
Marina, CA 93933

ISSUED: December 18, 2025

TO: **Prospective Bidders**

This Addendum forms a part of the Bidding Documents and will be incorporated into Contract Documents. Insofar as the Specifications or Drawings or both are inconsistent, this Addendum governs. Acknowledge receipt of the Addendum by inserting its number in Document 00 41 00 – Bid Form. **FAILURE TO DO SO WILL SUBJECT BID TO DISQUALIFICATION.**

PART 1 – BIDDER INFORMATION ITEMS (NONE)

PART 2 - CHANGES TO PROJECT MANUAL (EXHIBIT A)

- A. Specification Section 01 20 00:
- a. Remove Paragraph D.5 from Bid Item No. 7 – Intake Well Pump, Vault, and Piping.
 - b. Replace Paragraph D.10, Alternate Bid Item ALT 1 – Remove and Replace 12" Intake Well Pipe, in its entirety with the following:
10. Removal of existing 12" pipe where defined in the Contract Documents.
 - c. Add Paragraph D.11, Alternate Bid Item ALT 1 – Remove and Replace 12" Intake Well Pipe:
11. Abandonment of existing 12" pipe where defined in the Contract Documents.
 - d. Add Paragraph D.12, Alternate Bid Item ALT 1 – Remove and Replace 12" Intake Well Pipe:
12. And all other incidental work necessary to implement Remove and Replace 12" Intake Well Pipe complete, in place, and in accordance with the Contract Documents.
 - e. Replace Paragraph D.11, Alternate Bid Item ALT 2 – Remove and Replace 8" Brine Discharge Pipe, in its entirety with the following:
11. Removal of existing 8" pipe where defined in the Contract Documents.
 - f. Add Paragraph D.12, Alternate Bid Item ALT 2 – Remove and Replace 8" Brine Discharge Pipe:
12. All other incidental work necessary to complete Remove and Replace 8" Brine Discharge Pipe in accordance with the Contract Documents.
- B. All revised project manual documents are included in the attached **Exhibit A**.

PART 3 - CHANGES TO DRAWINGS (EXHIBIT B)

- A. Replace City of Marina Standard Detail ST-25 on Sheet C-4.0 with City of Marina Standard Detail SD-1. Refer to Exhibit B for City of Marina SD-1.

PART 4 – QUESTIONS RECEIVED

Q1 *Note 2 under the City of Marina's trench backfill detail (ST-25) states "the structural section must match the existing structural section of the roadway. AC, AB, ASB and any other existing compound." However, the plans and specifications do not indicate the existing thicknesses of the AC or AB layers. Please provide the existing AC and AB thickness.*

A1 For Bid Item #8 and Alternative Bid Item #1: AC Layer Thickness: 7"
AB Layer Thickness: 8"

For Bid Item #11 and Alternative Bid Item #2: AC Layer Thickness: 3"
AB Layer Thickness: 5"

Note that ST-25 has been replaced in its entirety by City of Marina detail SD-1, attached herein as Exhibit B.

Q2 *Marina Coast Water District's water line trench detail (W-12) shows a street zone depth of 18". At this depth, the trench would provide 39" cover over the water line, which is 3" more than the required 36" minimum cover. To meet the 3' cover requirement, can the street zone depth be reduced to 15"?*

A2 The street zone depth may be adjusted to meet the required 36" minimum cover requirement.

Q3 *Bid Item No 7, Section D.5 states to "Furnish and install pressure-treated lumber barricade, including all fasteners and Class B concrete footings." Please provide a detail for the lumber barricade.*

A3 Bid Item No. 7, Section D.5, has been removed from the scope of work. Please refer to the revised Specification Section 01 20 00.

Q4 *According to the project specifications, the newly installed pipes must be disinfected. However, given the nature of the desalination plant and the type of water the pipes will come into contact with, we would like to confirm whether disinfection is necessary.*

A4 Disinfection is not required for either the new intake or brine discharge lines, or for Bid Alternate Items 1 or 2. This portion of the work shall be removed from the scope of the Contract.

Q5 *Is there an Engineer's Estimate?*

A5 Refer to Bid Addendum 1, Part 4, Paragraph A1.

Q6 *Division 40 and 43 of the spec index references ZCM, what does that mean? Will you have a third party handling instrumentation if any required?*

A6 The ZCM and GO references in the Technical Specification table of contents (pages 155 - 157 of the Project Manual) indicate the responsible engineer or record for the corresponding specification. They do not indicate that a third party is performing the work. The Contractor is responsible for performing all work, or entering into agreements

with sub-contractors as necessary to perform all work, as outlined in the Contract Documents.

- Q7 *Drawing C-3.0 shows and describes Alternate Bid Item 1. The note shown on C-3.0 says "Replace existing intake pipeline with 12" HDPE DR 13.5 pipe, +- 450lf." The note does not describe removing the existing pipeline. Specification Section 01 20 00 describes the bid items. Alternative bid item 1 is titled "Remove and Replace 12" Intake Well Pipe".*

Does Alternative Bid Item 1 Include the removal of the existing 12" Intake Pipeline?

- A7 Alternative Bid Item 1, if included in the Contract, will include the removal of approximately 70 LF of the existing 12" intake pipeline. The remainder of the pipeline will be abandoned in place per MCWD Standard Specification 01045. The portion of the pipeline to be removed is located in the unpaved area of the State Beach property, from the connection with the 6" HDPE pipe to the first bend shown in the proposed Bid Alternative 1 alignment. Refer to sheet C-3.0. For bidding purposes, Contractor shall include removal of 70 LF of existing 12" C900 pipe in the cost of Alternative Bid Item 1.

- Q8 *Drawing C-3.0 shows and describes Alternate Bid Item 2. The note shown on C-3.0 says "Replace existing intake pipeline with 8" Sch 80 PVC pipe, +- 225lf." The note does not describe removing the existing pipeline. Specification Section 01 20 00 describes the bid items. Alternative bid item 1 is titled "Remove and Replace 8" Brine Discharge Pipe".*

Does Alternative Bid Item 2 Include the removal of the existing 8" Discharge Pipeline?

- A8 Alternative Bid Item 2, if included in the Contract, will include the removal of 225 LF of the existing 8" discharge pipeline. This portion of the pipeline is located in the paved area of the District's Desalination Plant property, from the connection with the existing flange connection at the Desalination Building (shown on Sheet C-4.2) to STA 20+00 of the 8" Sch. 80 PVC pipe shown on Sheet C-3.2. Refer to sheet C-3.0. For bidding purposes, Contractor shall include removal of 225 LF of existing 8" PVC pipe in the cost of Alternative Bid Item 2.

- Q9 *Pipeline Profiles were not provided for the following pipelines. Bid Item 11 – 8" PVC Discharge Piping, ALT 1 – Intake Pipeline, ALT 2 – Brine Discharge Pipeline. Please provide pipeline profiles for these pipelines.*

- A9 Profiles for Bid Item 11, Alt 1, and Alt 2 are not available due to unknown existing pipe elevations. For bid purposes, assume pipes are installed 36" below grade for entire alignment. All utilities known to the District and Engineer are shown on the plans, based on available drawings and field observations.

- Q10 *Can the Bidder language of Section 00 45 12 "List of Project References" be updated to include "or Personnel" for bidder references?*

- A10 The 00 45 12 Submittal must be **project** references. The references may be filled out with projects completed by the Bidder team members under a separate Contractor's license, either as individuals or business entities, as long as work was substantially performed by or under the oversight of the proposed "Bidder" team member. The project reference should include the name of the team member and the entity and license the work was completed under.

END OF DOCUMENT

EXHIBIT A

SECTION 01 20 00

PRICE AND PAYMENT PROCEDURES

PART 1 GENERAL

- 1.01 This Section describes the methods of measurement and payment for the specific bid items. All other provisions of the Contract Documents which relate to measurement and payment are applicable, except that where conflicts occur between this section and other provisions of the technical specifications or reference specifications, this measurement and payment section shall prevail.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

3.01 GENERAL

- A. All work shown, described, or otherwise required by the Contract Documents, shall be included within the given bid items.
- B. Payment for all bid items shall include full compensation for all equipment, materials, labor, tools, trucking, and all other incidental work necessary to construct complete and operational systems which conform to the Contract Documents.

3.02 MEASUREMENT AND PAYMENT FOR BID ITEMS

- A. All lengths shall be measured in a horizontal plane (plan view dimensions), unless otherwise specified. All areas measured shall be based on the specified measurement definition included in each bid item description.
- B. All work shown, described, or otherwise required by the Contract Documents, shall be included within the given bid items.
- C. Basis for the submitted bid shall be on the quantities shown for the items on the Bid Sheet.
- D. Unit definitions of Measurement and Payment
 - 1. "Lump Sum", or "LS", shall mean a single Lump Sum Payment for the identified bid item. Partial payments may be made, based on the Engineer's estimate of the percent completion of the specified item. Provide schedule of values for lump sum bid items in accordance with Para 3.03 of this Section.

2. "Each", or "EA", shall mean the actual number of identified bid items provided. Payment for the identified bid item will be based on providing each item, complete and in place in accordance with the contract documents.
3. Measurable units of quantity expressed in "Linear Feet" or "LF"; "Cubic Yard or CY"; "Ton"; "SF" or "SY" shall mean the number of indicated measurable quantities of the bid item. Payment for the identified bid item will be based on actual and measured quantities of the bid item complete and in place in accordance with the contract documents.
4. For extra work, and quantity changes for unit price work, refer to the General Conditions.

E. Final Pay Quantities.

1. The quantity shown on the bid sheet for a Final Pay Quantity shall be the final pay quantity used for the purpose of payments, unless the dimensions of any portion of the item are modified by the Engineer, or the item or any portion of the item is eliminated.
2. If the dimensions of any portion of a Final Pay Quantity bid item are changed, and the changes result in an increase or decrease in the quantity of the item, the final pay quantity will be revised by the change in quantity.
3. If a portion of a Final Pay Quantity item, or the item is eliminated, the final pay quantity will be adjusted by the quantity eliminated.
4. The estimated quantity shown on the bid sheet for a Final Pay Quantity bid item shall be considered as an estimate only and no guarantee is made that a quantity computed based on the details and the Plans, will equal the estimated quantity shown on the bid sheet. No allowance is made in the event that a computed quantity does not equal the estimate quantity.
5. In the case of a discrepancy between a quantity shown on the plans, and an estimated quantity shown on the bid sheet for a Final Pay Quantity item, payment will be based on the quantity shown on the bid sheet.

3.03 SCHEDULE OF VALUES

- A. The Contractor shall submit to the Owner for acceptance, in the form directed by or acceptable to the Owner, a complete schedule of the values for each item in the bid schedule, breaking down the various portions of the Work, including quantities and unit prices, aggregating the Contract Price (except in cases and to the extent that accepted unit prices form the basis for payment).
- B. The schedule shall subdivide the items of Work into component parts in sufficient detail to serve as the basis for progress payments during construction and to coordinate with the progress schedule required for this Work, and shall be supported by such data to substantiate its correctness as the Owner may require.
- C. Each item in the schedule of values shall include its proper share of overhead and profit. An unbalanced breakdown providing for overpayment to the Contractor on items of Work which would be performed first will not be approved.

- D. The schedule of values, when accepted by the Owner, shall be used only as a basis for the Contractor's applications for payment and not for additions to, or deductions from, the Contract Price. The initial submittal for the schedule of values shall be provided at the preconstruction conference or within 10 days following the Notice to Proceed, whichever comes sooner.

BASE BID

Bid Item No. 1 – Mobilization/Demobilization

- A. Units: Lump Sum
- B. Measurement: Partial payments based on Engineer's determination.
- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for Mobilization/Demobilization.
1. Partial payment for Mobilization/Demobilization work will not be made until listed items in the schedule of values have been completed to the satisfaction of the Owner.
 2. Mobilization/Demobilization shall not be more than 5% of the overall contract price.
 3. Contractor shall be compensated no more than 70% of total bid value for Mobilization/Demobilization for mobilization; and 30% for mobilization/demobilization for demobilization following completion of Work.
- D. Scope of bid item: Mobilization/Demobilization includes, but is not limited to the following:
1. Mobilization/demobilization.
 2. Obtaining all required bonds, insurance, and permits.
 3. Compliance with State Parks encroachment permit requirements, City of Marina encroachment permit requirements, and other agency permit requirements for the Work.
 4. Posting all Cal-OSHA required notices and establishment of safety programs and injury and illness prevention plan (IIPP).
 5. Maintaining project schedule.
 6. Preparation of work plans required to complete all work.
 7. All Contractor's facilities and equipment required for project operations.
 8. Arranging for and erection of Contractor's work areas and storage yards and coordinating such work areas and storage yards with Marina Coast Water District staff, State Parks, the City of Marina, and other agencies as necessary.
 9. Coordination with utility companies during construction activities adjacent to utility agency facilities.

10. Potholing utilities and providing pothole reports.
11. Coordinating with Marina Coast Water District, State Parks, the City of Marina, and other agencies during construction.
12. Providing and installing temporary communication facilities.
13. Providing and installing construction water and on-site sanitary facilities.
14. Providing temporary wellhead covers.
15. Designation of the Contractor's superintendent(s) who will be present at the job site full time.
16. Documenting construction progress, including pre- and post-construction photographs and videos, and progress photographs.
17. Preparing and submitting field record drawings, close-out submittals, including all locations of potholed utilities.
18. Removing equipment, personnel, temporary facilities, and other construction resources at job completion.
19. Site cleanup.
20. Pressure testing of existing piping, as shown in the Plans and per the Specifications, including documentation of test pressure and results and submittal of documentation to Owner.
21. All other incidental work as specified in Division 01 of these Specifications, Project Supplementary Conditions, District Standard Specifications, referenced Caltrans standard specifications, permit requirements, and as necessary to complete Mobilization/Demobilization in accordance with the Contract Documents.

Bid Item No. 2 - Construction Survey

- A. Units: Lump Sum (LS)
- B. Measurement: Partial payments based on Engineer's determination.
- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for Construction Survey.
- D. Scope of bid item: Construction Survey includes, but is not limited to the following:
 1. Establishing horizontal control based on survey information provided in the Plans.
 2. All survey Work related to existing and proposed water main works, as described in Section 02 21 00 – Surveys and the Drawings.
 3. Re-setting monuments that may be damaged or need to be removed as part of the Work.
 4. Replacement of property corner markers, including proper recordation.

5. All other incidental work necessary to complete Construction Survey in accordance with the Contract Documents.

Bid Item No. 3 – Erosion, Sediment, and Water Pollution Control

- A. Units: Lump Sum (LS)
- B. Measurement: Partial payments based on Engineer's determination.
- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for Erosion, Sediment, and Water Pollution Control.
- D. Scope of bid item: Work for Erosion, Sediment, and Water Pollution Control includes, but is not limited to the following:
 1. Proper management of storm water, dust, sediment, and erosion with best practices, where required, including pr. Refer to Section 01 57 13 – Temporary Erosion and Sediment Control and 01 57 23 Temporary Storm Water Pollution Control.
 2. Complying with all reporting, monitoring, inspection and permitting requirements for protection of water quality.
 3. All labor, equipment and materials to perform Erosion, Sediment, and Water Pollution Control activities.
 4. All other incidental work necessary to complete Erosion, Sediment, and Water Pollution Control in accordance with the Contract Documents.

Bid Item No. 4 – Traffic Control

- A. Units: Lump Sum (LS)
- B. Measurement: Partial payments based on Engineer's determination.
- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for Traffic Control.
- D. Scope of bid item: Work for Traffic Control includes, but is not limited to the following:
 1. Traffic control in accordance with City of Marina requirements, and as required for execution of the Work.
 2. Required plans and submittals.
 3. All other incidental work necessary to complete Traffic Control in accordance with the Contract Documents.

Bid Item No. 5 - Sheet piling, Shoring and Bracing

- A. Units: Lump Sum (LS)
- B. Measurement: Partial payments based on Engineer's determination.

- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for Sheeting, Shoring and Bracing.
- D. Scope of bid item: Work for Sheeting, Shoring and Bracing includes, but is not limited to the following:
 - 1. Required fees, permits, plans, and submittals, prepared by California registered civil or structural engineer.
 - 2. Compliance with all requirements for Cal-OSHA construction safety in the excavation of trenches and pits, and other technical requirements in Division 31 specifications, and trench details on the plans.
 - 3. Trench excavation plans, as required.
 - 4. Providing adequate sheeting, shoring, and bracing, or equivalent method, for the protection of life or limb, which shall conform to the applicable construction safety orders.
 - 5. All other incidental work necessary to complete Sheeting, Shoring and Bracing in accordance with the Contract Documents.

Bid Item No. 6 – Intake Well Access and Pad Grading

- A. Units: Lump Sum (LS)
- B. Measurement: Partial payments based on Engineer's determination.
- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for Intake Well Access and Pad Grading.
- D. Scope of bid item: Work for Intake Well Access and Pad Grading includes, but is not limited to, the following.
 - 1. Rough and finish grading of as shown in the Plans and in compliance with these Specifications.
 - 2. Furnish and install temporary matting as necessary to allow access to the existing intake well.
 - 3. Control/management of groundwaters, where required.
 - 4. Verification of adjacent utilities and potholing of potential conflicting utilities.
 - 5. Protection of existing utilities.
 - 6. All clearing and grubbing work defined in Specification 31 00 01, Paragraph 1.03.C.3, including disposal of removed objectionable material.
 - 7. All other incidental work necessary to complete Intake Well Access and Pad Grading in accordance with the Contract Documents.

Bid Item No. 7 – Intake Well Pump, Vault, and Piping

- A. Units: Lump Sum (LS)
- B. Measurement: Partial payments based on Engineer's determination.

- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for Intake Well Pump, Vault, and Piping.
- D. Scope of bid item: Work for Intake Well Pump, Vault, and Piping includes, but is not limited to, the following.
1. Complete installation of OFCI stainless steel well pump, including the procurement and installation of pump discharge elbow, piping, valves, fittings, and appurtenances.
 2. Provide fittings and fasteners required to make connection to 6" HDPE intake well piping.
 3. Furnish and install precast polymer concrete vault structure, including base, riser, lid, access hatch, and penetration seals.
 4. All earthwork required for placement of vault and piping, including all sub-grade preparation, excavation, scarification, backfill, and compaction, including removal, hauling, and disposal of all debris and deleterious materials.
 5. Patching and rehabilitation of concrete wellhead structure and anchors.
 6. All other incidental work necessary to complete Intake Well Rehabilitation in accordance with the Contract Documents.

Bid Item No. 8 – Site Electrical Renovations

- A. Units: Lump Sum (LS)
- B. Measurement: Partial payments based on Engineer's determination.
- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for Site Electrical Renovations.
- D. Scope of bid item: Work for Site Electrical Renovations includes, but is not limited to, the following.
1. Furnish and install all above-ground and underground conduit, including all fittings and conduit supports/hangers and pull rope, where shown on the Drawings.
 2. Trenching, hand-digging, exposing, backfilling, compaction, and surface pavement and striping restoration, where required, including providing and placing cement slurry backfill.
 3. Install owner-furnished replacement switchgear.
 4. Furnish and supply all paneling, cabinets, disconnects, and electrical equipment associated with the Owner-furnished replacement switchgear, as shown in the Plans.
 5. Furnish, install, and land all cabling and conductors, including nylon string for pulling/fishing conductors through installed conduit runs as shown in the Plans.
 6. Furnish and install all flow meter(s), pressure and level transducers, and pressure switch(es) in the quantity and location as shown in the Plans.

7. Provide adequate grounding conductors, rods, connectors, and other infrastructure to ground completely, and in compliance with local, state, and national codes, all electrical components.
8. Removal, hauling, and disposal of existing switchgear and any and all electrical waste resulting from work described herein. Dispose of materials in compliance with local ordinances and these Specifications.
9. All other incidental work necessary to complete Site Electrical Renovations in accordance with the Contract Documents.

Bid Item No. 9 – Connection to Existing Piping

- A. Units: Each (EA)
- B. Measurement: Each individual completed connection to existing water piping and facilities at the locations shown in the Plans.
- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for Connection to Existing Piping.
- D. Scope of bid item: Work for Connection to Existing Piping includes, but is not limited to the following:
 1. Tie-in to existing water piping as shown on the Plans.
 2. Verification of adjacent utilities.
 3. Pipe, adapters, fittings, thrust blocks, all joints and restraints, and connections to existing pipes.
 4. Furnish and install valves in accordance with the Plans and Specifications.
 5. Removal of existing piping, temporary bulkheads, fittings, blow offs, thrust blocks and blind flanges, as required.
 6. Trenching, hand-digging, exposing, backfilling, compaction, and surface pavement and striping restoration, where required.
 7. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 8. Removal and disposal of any vegetation within the point of connection, as shown in the Plans, including all labor, equipment, materials, and miscellaneous costs to perform this work
 9. Coordination and notification requirements to water service providers and customers for temporary disruption of service.
 10. Control/management of groundwaters and dewatering, as needed.
 11. Disinfection of all wetted parts used to establish connections to existing mains, in accordance with these Specifications.
 12. Potholing of any utilities, either shown on the plans or marked in the field, in advance of excavation that may conflict with the proposed connection(s).

13. All other incidental work necessary to complete Connection to Existing Piping in accordance with the Contract Documents.

Bid Item No. 10 – 6” HDPE Intake Piping

- A. Units: Linear Feet (LF)
- B. Measurement: Linear feet of water line constructed using open trench construction methods per the Contract Documents for this item, measured along horizontal projection along centerline axis of water main.
- C. Payment: The payment quantity for 6” HDPE Intake Piping shall be on a unit price basis per lineal foot, and shall be full compensation for all materials, labor, tools equipment and incidentals to acceptably construct this item in accordance with the Plans and Specifications
- D. Scope of Bid Item: 6” HDPE Intake Piping shall include, but is not limited to the following:
1. Furnish and install completely, in accordance with the Plans and Specifications, all pipe, adapters, fittings, valves, and associated appurtenances.
 2. Furnish and install completely all Identification/warning tape and tracer wire.
 3. Trenching, hand-digging, exposing, backfilling, compaction, and surface pavement and striping restoration, where required.
 4. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 5. Removal and disposal of any vegetation within the water main alignment, as shown in the plans, including all labor, equipment, materials, and miscellaneous costs to perform this work.
 6. Potholing of any existing utilities, either shown on the plans or marked in the field, in advance of excavation that may conflict with the proposed water main(s).
 7. Verification and protection of adjacent existing utilities.
 8. Control/management of groundwaters.
 9. Pressure testing and disinfection per MCWD Standard Specifications and these Specifications.
 10. And all other incidental work necessary to implement 6” HDPE Intake Piping complete, in place, and in accordance with the Contract Documents.

Bid Item No. 11 – 8” PVC Discharge Piping

- A. Units: Linear Feet (LF)
- B. Measurement: Linear feet of water line constructed using open trench construction methods per the Contract Documents for this item, measured along horizontal projection along centerline axis of water main.

- C. Payment: The payment quantity for 8" PVC Discharge Piping shall be on a unit price basis per lineal foot, and shall be full compensation for all materials, labor, tools equipment and incidentals to acceptably construct this item in accordance with the Plans and Specifications
- D. Scope of Bid Item: 8" PVC Discharge Piping shall include, but is not limited to the following:
1. Furnish and install completely, in accordance with the Plans and Specifications, all pipe, adapters, fittings, valves, and associated appurtenances.
 2. Furnish and install completely all Identification/warning tape and tracer wire.
 3. Trenching, hand-digging, exposing, backfilling, compaction, and surface pavement and striping restoration, where required.
 4. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 5. Removal and disposal of any vegetation within the water main alignment, as shown in the plans, including all labor, equipment, materials, and miscellaneous costs to perform this work.
 6. Potholing of any existing utilities, either shown on the plans or marked in the field, in advance of excavation that may conflict with the proposed water main(s).
 7. Verification and protection of adjacent existing utilities.
 8. Control/management of groundwaters.
 9. Pressure testing and disinfection per MCWD Standard Specifications and these Specifications.
 10. And all other incidental work necessary to implement 8" PVC Discharge Piping complete, in place, and in accordance with the Contract Documents.

Bid Item No 12 – Desalination Yard Piping

- A. Units: Lump Sum (LS)
- B. Measurement: Partial payments based on Engineer's determination.
- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for Desalination Yard Piping.
- D. Scope of bid item: Work for Desalination Yard Piping includes, but is not limited to the following:
1. Removal of existing piping, temporary bulkheads, fittings, and valves, as shown in the Plans.
 2. Furnish and install completely, in accordance with the Plans and Specifications, all pipe, adapters, fittings, restraints, valves, and associated appurtenances.
 3. Coating of above ground PVC piping as shown in Plans and in compliance with the Specifications.

4. Verification of adjacent utilities.
5. Potholing of any utilities, either shown on the plans or marked in the field, in advance of excavation that may conflict with the proposed piping.
6. Trenching, hand-digging, exposing, backfilling, compaction, and surface pavement and striping restoration, where required.
7. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
8. Control/management of groundwaters and dewatering, as needed.
9. Pressure testing and disinfection per MCWD Standard Specifications and these Specifications.
10. All other incidental work necessary to complete Desalination Yard Piping in accordance with the Contract Documents.

Bid Item No 13 – Discharge Wellhead Piping

- A. Units: Lump Sum (LS)
- B. Measurement: Partial payments based on Engineer's determination.
- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for Discharge Wellhead Piping.
- D. Scope of bid item: Work for Discharge Wellhead Piping includes, but is not limited to the following:
 1. Removal of existing piping, temporary bulkheads, fittings, and valves, as shown in the Plans.
 2. Furnish and install completely, in accordance with the Plans and Specifications, all above ground pipe, adapters, fittings, restraints, support, valves, and associated appurtenances, including the proposed stainless steel wellhead cover and fasteners/anchors for the Discharge Well.
 3. Coating of above ground PVC piping as shown in Plans and in compliance with the Specifications.
 4. Verification of adjacent utilities.
 5. Potholing of any utilities, either shown on the plans or marked in the field, in advance of excavation that may conflict with the proposed piping.
 6. Trenching, hand-digging, exposing, backfilling, compaction, and surface pavement and striping restoration, where required.
 7. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 8. Control/management of groundwaters and dewatering, as needed.
 9. Pressure testing and disinfection per MCWD Standard Specifications and these Specifications.

10. All other incidental work necessary to complete Discharge Wellhead Piping in accordance with the Contract Documents.

ALTERNATE BID ITEMS:

ALT 1 – Remove and Replace 12” Intake Well Pipe

- A. Units: Linear Feet (LF)
- B. Measurement: Linear feet of water line constructed using open trench construction methods per the Contract Documents for this item, measured along horizontal projection along centerline axis of water main.
- C. Payment: The payment quantity for Remove and Replace 12” Intake Well Pipe shall be on a unit price basis per lineal foot, and shall be full compensation for all materials, labor, tools equipment and incidentals to acceptably construct this item in accordance with the Plans and Specifications
- D. Scope of Bid Item: Remove and Replace 12” Intake Well Pipe shall include, but is not limited to the following:
1. Furnish and install completely, in accordance with the Plans and Specifications, all pipe, adapters, fittings, valves, and associated appurtenances.
 2. Furnish and install completely all Identification/warning tape and tracer wire.
 3. Trenching, hand-digging, exposing, backfilling, compaction, and surface pavement and striping restoration, where required.
 4. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 5. Removal and disposal of any vegetation within the water main alignment, as shown in the plans, including all labor, equipment, materials, and miscellaneous costs to perform this work.
 6. Potholing of any existing utilities, either shown on the plans or marked in the field, in advance of excavation that may conflict with the proposed water main(s).
 7. Verification and protection of adjacent existing utilities.
 8. Control/management of groundwaters.
 9. Pressure testing and disinfection per MCWD Standard Specifications and these Specifications.
 10. Removal of existing 12” pipe where defined in the Contract Documents.
 11. Abandonment of existing 12” pipe where defined in the Contract Documents.
 12. And all other incidental work necessary to implement Remove and Replace 12” Intake Well Pipe complete, in place, and in accordance with the Contract Documents.

ALT 2 – Remove and Replace 8” Brine Discharge Pipe

- A. Units: Linear Feet (LF)
- B. Measurement: Linear feet of water line constructed using open trench construction methods per the Contract Documents for this item, measured along horizontal projection along centerline axis of water main.
- C. Payment: The payment quantity for Remove and Replace 8” Brine Discharge Pipe shall be on a unit price basis per lineal foot, and shall be full compensation for all materials, labor, tools equipment and incidentals to acceptably construct this item in accordance with the Plans and Specifications
- D. Scope of bid item: Work for Remove and Replace 8” Brine Discharge Pipe includes, but is not limited to the following:
 - 1. Removal of existing piping, temporary bulkheads, fittings, and valves, as shown in the Plans.
 - 2. Furnish and install completely, in accordance with the Plans and Specifications, all pipe, adapters, fittings, restraints, valves, and associated appurtenances.
 - 3. Furnish and install completely all Identification/warning tape and tracer wire.
 - 4. Coating of above ground piping as shown in Plans and in compliance with the Specifications.
 - 5. Verification of adjacent utilities.
 - 6. Potholing of any utilities, either shown on the plans or marked in the field, in advance of excavation that may conflict with the proposed piping.
 - 7. Trenching, hand-digging, exposing, backfilling, compaction, and surface pavement and striping restoration, where required.
 - 8. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 - 9. Control/management of groundwaters and dewatering, as needed.
 - 10. Pressure testing and disinfection per MCWD Standard Specifications and these Specifications.
 - 11. Removal of existing 8” pipe where defined in the Contract Documents.
 - 12. All other incidental work necessary to complete Remove and Replace 8” Brine Discharge Pipe in accordance with the Contract Documents.

ALT 3 – Well Rehabilitation

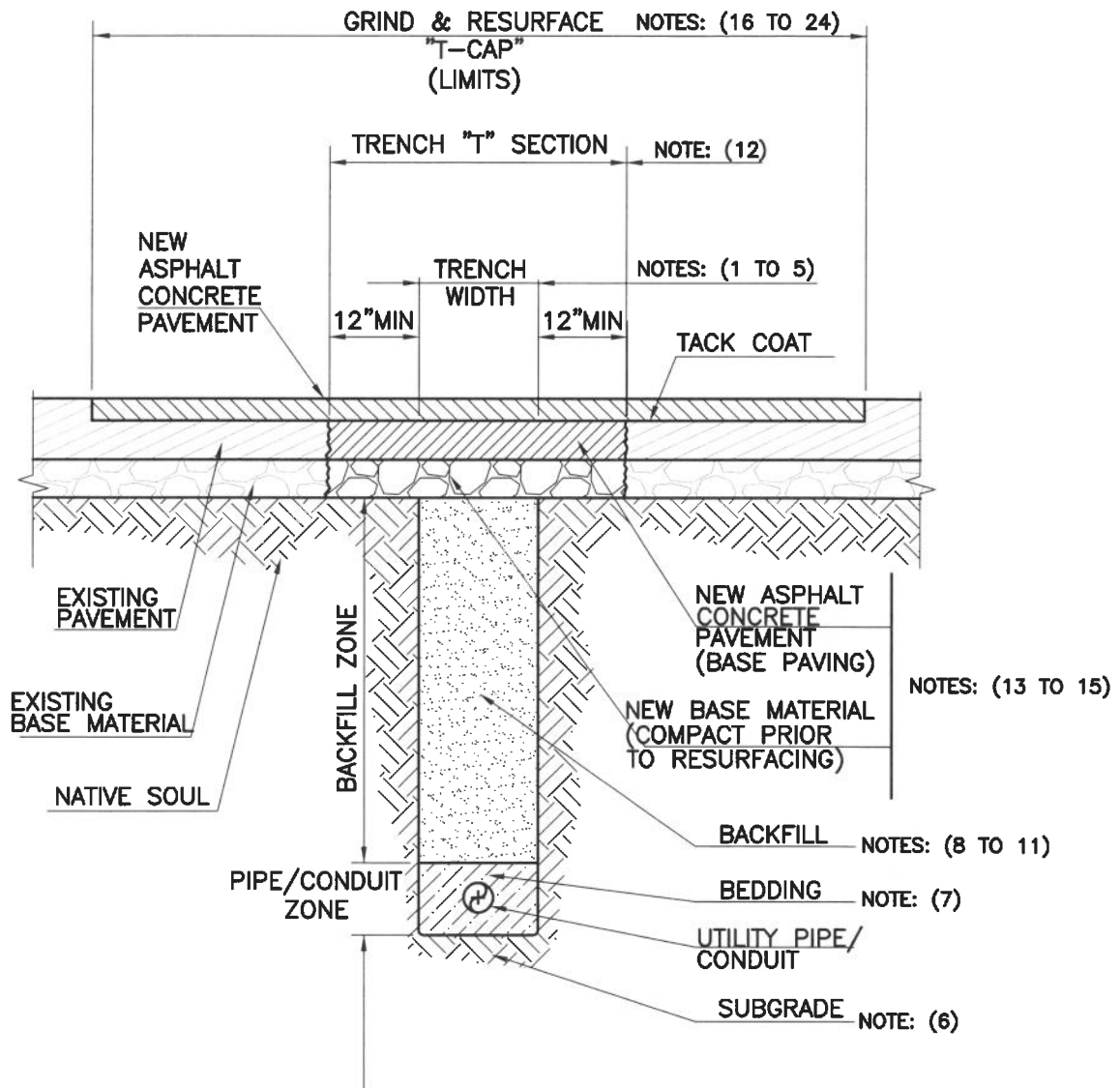
- A. Units: Lump Sum (LS)
- B. Measurement: Partial payments based on Engineer’s determination.
- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for Well Rehabilitation.

- D. Scope of bid item: Work for Well Rehabilitation includes, but is not limited to, the following.
1. Mobilization and set up of all necessary equipment, materials, storage tanks, and temporary pumps.
 2. Cleaning and flushing of existing intake and discharge well screen and casing, including acid/bio-dispersant treatment, hydro-jetting, and the removal of all accumulated sediment and debris.
 3. Removal, hauling, and disposal of accumulated sediment and solids in compliance with local ordinances and these Specifications.
 4. Zone pumping and specific capacity pump test of the intake and injection wells, including handling and disposal of all discharged well water.
 5. Development of Well Access Plan and Well Water Disposal plan, as defined in Specification Sections 01 11 00 and 33 01 10.91.
 6. Video survey, inspection, and report of rehabilitated intake and discharge wells.
 7. Patching and rehabilitation of concrete well seal and wellhead, for both the injection well and intake well, including installation of new anchor bolts.
 8. Furnish and install wellhead cover caps.
 9. All monitoring well rehabilitation, including removal of sediment and debris, surging and bailing of monitoring wells, repairs to existing casings, and providing traffic-rated box and cover.
 10. All other incidental work necessary to complete Well Rehabilitation in accordance with the Contract Documents.

END OF SECTION

EXHIBIT B

J:\DESIGN\18.101 - Marina Standard Details\SD-1.1-4_T-TRENCH AND PAVEMENT RESTORATION DETAIL NOTES.DWG Plotted on: 06-25-19 4:13pm



APPROVED BY:

[Signature]

7/22/19

DATE

CITY ENGINEER

REVISION:

DATE



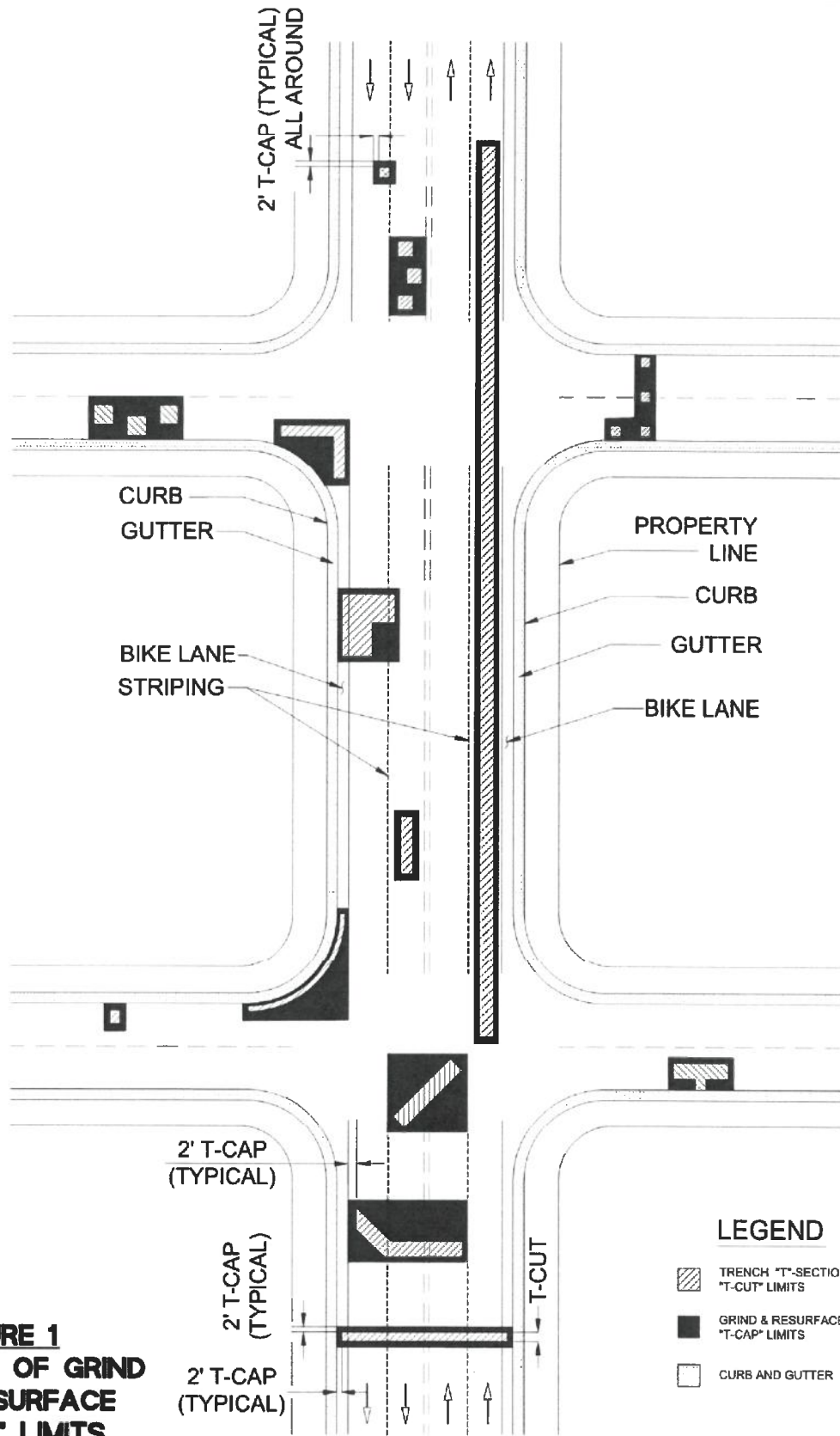
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
CITY OF MARINA

**T-TRENCH AND RESTORATION DETAIL
ASPHALT CONCRETE STREETS**

STANDARD PLAN

SD-1

SH. 1 OF 4



APPROVED BY:	7/22/19
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T-TRENCH AND RESTORATION DETAIL
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STANDARD PLAN

SD-1

SH. 2 OF 4

NOTES:

ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF CALTRANS SPECIFICATIONS.

LIMITS OF REMOVALS. TRENCH WIDTH:

1. ALL PAVEMENT REMOVED SHALL HAVE STRAIGHT EDGES. CUTS SHALL BE MADE TO A MINIMUM DEPTH OF ONE AND A HALF (1-1/2) INCHES. ALL CUTS SHALL BE NEAT, STRAIGHT, VERTICAL CUTS WITH NO BROKEN EDGES.
2. ALL LONGITUDINAL PAVEMENT CUTS SHALL BE UNINTERRUPTED APPROXIMATELY PARALLEL TO THE TRENCH (MAX. 1:6 LONGITUDINAL VARIANCE).
3. WHEN SAW CUTTING PAVEMENT, THE MAXIMUM OVERRUN ALLOWED FOR ANY SAW CUT BEYOND THE BOUNDARY REMOVAL LIMITS OF EXISTING PAVEMENT SHALL BE TO THE NEAREST COMPETENT PAVEMENT SURFACE.
4. TRENCH WIDTH SHALL BE MINIMUM 24 INCHES, UNLESS SLURRY BACKFILL AND BEDDING IS USED, IN WHICH CASE MINIMUM SHALL BE 4 INCHES.

BEDDING:

5. BEDDING MATERIAL SHALL BE PLACED ON FIRM AND UNYIELDING SUBGRADE. SOFT, ORGANIC, UNSTABLE, UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED.
6. BEDDING SHALL CONFORM TO CALTRANS REQUIREMENTS.

BACKFILL:

7. EXCAVATIONS SHALL BE BACKFILLED WITH AN APPROVED SLURRY MIX, CRUSHED MISCELLANEOUS BASE (CMB), OR CRUSHED AGGREGATE BASE (CAB). NATIVE SOIL MAY ONLY BE USED WITH CITY ENGINEER'S APPROVAL. CMB, CAB, NATIVE SOIL SHALL BE COMPACTED TO 90% RELATIVE DENSITY. CMB, CAB SHALL BE WELL GRADED AND HANDLED IN A MANNER TO PREVENT SEGREGATION BY PARTICLE SIZE. SOIL TESTING MAY BE REQUIRED TO BE PROVIDED TO THE FIELD INSPECTOR ON A CASE-BY-CASE BASIS.
8. BACKFILL SLURRY MATERIAL SHALL BE PROPERLY CONSOLIDATED. SLURRY MATERIAL FOR TRENCHES DEEPER THAN 5 FEET AND/OR NARROWER THAN 12 INCHES MUST BE CONSOLIDATED WITH VIBRATION.
9. BACKFILL MATERIAL SHALL BE MADE SMOOTH AND LEVEL BEFORE PLACING BASE AND PAVEMENT.
10. JETTING IS NOT AN APPROVED DENSIFICATION METHOD.

TRENCH "T" SECTION ("T-CUT"):

11. AFTER THE EXCAVATION HAS BEEN BACKFILLED, THE EXISTING PAVEMENT SHALL BE REMOVED TO A CLEAN SAWCUT LINE AT LEAST 12-INCHES BACK OF THE FIRM BANKS OF THE TRENCH AND THIS AREA ADJACENT TO THE TRENCH SHALL BE COMPACTED TO 95% RELATIVE DENSITY ("T-CUT"). EXISTING CMB OR CAB BASE MATERIAL IN THIS AREA DOES NOT NEED TO BE REMOVED. IF SLURRY TRENCH WIDTH IS LESS THAN 12 INCHES, EXISTING PAVEMENT SHALL BE REMOVED TO PROVIDE AT LEAST A 12 INCH WIDE OPENING FOR PROPER COMPACTION OF THE BASE MATERIAL.
12. NEW BASE MATERIAL OF CMB, OR CAB, SHALL MATCH THE EXISTING BASE THICKNESS, OR 6-INCHES, WHICHEVER IS GREATER. COMPACT TO 95% RELATIVE DENSITY. THIS REQUIREMENT SHALL ALSO APPLY OVER SLURRY BACKFILLS UNLESS OTHERWISE SPECIFIED IN THE PERMIT.

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CITY ENGINEER

REVISION:

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**T-TRENCH AND RESTORATION DETAIL
ASPHALT CONCRETE STREETS**

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NOTES: (CONTINUED)

13. NEW ASPHALT CONCRETE SECTION SHALL MATCH EXISTING PAVEMENT THICKNESS, OR 4-INCHES, WHICHEVER IS GREATER. HMA SHALL BE TYPE A 1/2" GRADIENT UNLESS OTHERWISE STATED IN PERMIT.
14. ASPHALT CONCRETE PAVING WILL OCCUR NO SOONER THAN 42 HOURS AFTER SLURRY BACKFILL OF TRENCH.
15. IF A SAW CUT IN PAVEMENT FALLS WITHIN 2 FEET OF AN EXISTING CURB, GUTTER, OR EDGE OF PAVEMENT, THE ADDITIONAL PAVEMENT SHALL BE REMOVED AND RECONSTRUCTED.



GRIND AND RESURFACE ("T-CAP"):

16. WITHIN 30 CALENDAR DAYS AFTER BACKFILLING, ASPHALT CONCRETE SHALL BE COLD MILLED AND RESURFACED AS FOLLOWS:
17. EXISTING ASPHALT CONCRETE SHALL BE GROUND DOWN ONE AND ONE HALF (1-1/2) INCHES, OR ONE HALF THE EXISTING PAVEMENT THICKNESS, WHICHEVER IS GREATER, TO THE "T-CAP" LIMITS.
18. "T-CAP" LIMITS SHALL BE FROM FIGURE 1, "EXAMPLES OF GRIND AND RESURFACE "T-CAP" LIMITS".
19. "T-CAP" LIMITS SHALL EXTEND AT LEAST 2 FEET BEYOND THE TRENCH "T-CUT" LIMITS. MINIMUM "T-CAP" DIMENSIONS SHALL BE 6 FEET x 6 FEET.
20. "T-CUT" AND CORRESPONDING "T-CAP" (AS APPLICABLE) IS REQUIRED FOR ALL EXCAVATIONS WITH A SURFACE AREA OF 2 SQ. FT OR GREATER.
21. WHERE LIMITS OF "T-CUT"S, "T-CAP"S, POT HOLES OR CORED HOLES ARE WITHIN 4FT OF EACH OTHER, THE PAVEMENT SURFACE RESTORATION SHALL BE COMBINED, BLENDED AND SQUARED USING "T-CAP"S TO ENCOMPASS ALL AREAS IN BETWEEN AS SHOWN IN FIGURE 1. "T-CAP" LIMITS FOR POT HOLES AND CORE HOLES SHALL EXTEND A MINIMUM OF 1-FOOT ALL AROUND BEYOND THE HOLES.
22. IMPACTED BIKE LANES - "T-CAP" LIMITS SHALL FULLY ENCOMPASS ANY BIKE LANE IMPACTED BY THE TRENCH, AND SHALL HAVE A LENGTH THAT EXTENDS AT LEAST 2 FEET BEYOND THE ASPHALT REMOVAL LIMITS IN THE DIRECTION OF BIKE TRAFFIC.
23. WHEN THE "T-CAP" LIMIT IS WITHIN 2 FEET OR LESS FROM A CURB OR GUTTER, THE "T-CAP" LIMIT SHALL EXTEND TO THE CURB OR GUTTER.
24. PAVEMENT SHALL BE LEVEL WITH ADJACENT ROADWAY ELEVATIONS AND SHALL PROVIDE A SMOOTH SURFACE PER CALTRANS SECTION 39 AND SUBJECT TO ACCEPTANCE BY THE CITY PUBLIC WORKS INSPECTOR.
25. "T-CAP" AND PERMANENT BASE PAVING MAY BE PERFORMED ON THE SAME DAY WHEN FEASIBLE.

TEMPORARY RESURFACING:

26. TEMPORARY SURFACING SHALL BE EITHER COLD PATCH (MIN. 3"), TEMPORARY HMA (MIN. 3"), OR IMBEDDED ANTI-SKID STEEL PLATING FLUSH TO ADJACENT PAVEMENT SURFACE. IF STEEL PLATING IS USED, ADVANCED WARNING SIGNAGE SHALL BE INSTALLED.

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		ASPHALT CONCRETE STREETS		SH. 4 OF 4