## **Work Variance Request Form**

Groundwater Remedy Phase 2A Construction, PG&E Topock Compressor Station, Needles, California

### PG&E TOPOCK GROUNDWATER REMEDIATION PROJECT

Work Variance Request #12 – Proposed addition of pipelines/conduits to connect existing extraction well TWB-3 and deferral of the Operations Building on the Transwestern Bench

| Request Prepared By: PG&E  | Request Approval From: DTSC and DOI  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| Date Submitted: 9/23/22  | Date Approval Required: 10/18/22   |  |  |  |  |  |
| Variance Request No.: 12   | Map Area: N/A  |  |  |  |  |  |
| Location: The new pipeline connects existing well TWB-3 in the low area northeast of the Transwestern Bench, travels up the existing access road (along the west side) to the bench top, and connects to the existing well TWB-1 on the bench. |  |  |  |  |  |  |
| Land Manager/Parcel No.: USFWS for HNWR/650-161-12, PG&E for PG&E land/650-161-08  |  |  |  |  |  |  |
| Current Vegetative Cover/Land Use: None/Industrial   |  |  |  |  |  |  |
| Existing Sensitive Resource? No X Yes, Specify: nearby archaeological resources and one palo verde tree  |  |  |  |  |  |  |
| Variance From:   | ance From: Mitigation Measure Work Plan/Procedure Response to Comments Drawing |  |  |  |  |  |
| Permit Condition   |  |  |  |  |  |  |
| Detailed Description of Variance and Justification (Attach additional information if necessary):   |  |  |  |  |  |  |
| Attachments: Photo X Construction Drawing Aerial Photo Mark-Up Correspondence Other  |  |  |  |  |  |  |
| Potential Impacts of Variance:   |  |  |  |  |  |  |
| X Air Quality Hazardous Mate   | erials Aesthetic   |  |  |  |  |  |
| Biological Resources X Noise   |  |  |  |  |  |  |
| X Soils Paleo Resources  |  |  |  |  |  |  |
| ☐ Cultural Resources ☐ Hydrology and V   | Vater Quality  |  |  |  |  |  |

## **Work Variance Request Form (Continued)**

Groundwater Remedy Phase 2A Construction, PG&E Topock Compressor Station, Needles, California

#### **PG&E TOPOCK GROUNDWATER REMEDIATION PROJECT**

Work Variance Request #12 – Proposed addition of pipelines/conduits to connect existing extraction well TWB-3 and deferral of the Operations Building on the Transwestern Bench

#### **Description and Justification:**

This Work Variance Request (WVR) adds pipelines and conduits to connect the existing extraction well TWB-3 to the groundwater remedy and defers construction of the Operations Building on the Transwestern Bench. The specifics are described below and included in the attached drawings.

#### a) Addition of pipelines/conduits to connect existing TWB-3 to the groundwater remedy.

At the April 5, 2022 Cultural and Historic Properties Management Plan (CHPMP) meeting, PG&E presented an update of the drilling at the Transwestern Bench (TWB-1 and TWB-2 results) and informed Tribes and agencies that an additional well (TWB-3) will be necessary to achieve a combined target extraction rate of 25 gallons per minute (gpm). Well TWB-3 was included in the Basis of Design as a provisional well. A site visit to view potential locations for TWB-3 occurred on April 6, 2022 with participation from DOI, Tribes, and PG&E. During the April site visit, PG&E mentioned that provisional well TWB-3, if determined to be a viable well, will need to be connected to the rest of the groundwater remedy via pipelines and conduits which were not in the Final Design. On April 12, 2022, FMIT sent a letter to DOI stating the Tribe's preferred alternate location for TWB-3, which was subsequently concurred by the Quechan Indian Tribe on April 17, 2022. DOI and DTSC provided concurrence with the FMIT's preferred location on April 13 and April 21, 2022, respectively. A pilot borehole was drilled at the approved location the week of May 1, 2022.

At the June 22, 2022 Consultative Work Group (CWG) meeting, PG&E presented the drilling results for TWB-3 which showed that this is a viable extraction well. PG&E also presented to the CWG four potential pipeline/conduit routes to the TWB-3 location. A field meeting occurred on June 23, 2022 to view the routes, with participation from USFWS, DOI, BLM, DTSC, Tribes, and PG&E. The majority of the pipeline routes are located in the Havasu National Wildlife Refuge (HNWR) with a small portion on PG&E land. Of the four options, two were not favored due to the estimated level of disturbance and proximity to cultural resources. Of the remaining two options, the Refuge Manager expressed a preference for the route with only belowground piping/conduits due to maintenance typically required for aboveground piping in the desert. The FMIT evaluated the options and provided feedback to DOI, BLM, and PG&E on July 8, 2022. The FMIT's preference is the route with only belowground piping/conduits. On July 11, 2022, the Refuge Manager reconfirmed the same preferred belowground piping/conduits.

The plan and profile of the new pipeline is shown in the attached drawing C-07-60. The trench sections E3 and E3-Alt are shown in attached drawing C-07-106. Below is a summary of key construction details:

- A trench of approximate dimension of 2 feet wide by 3 to 4 feet deep by 470 feet long will be installed from
  existing well TWB-3 to existing well TWB-1. The actual dimension of the trench may vary depending on field
  conditions.
- Within the trench, there will be two High Density Polyethylene (HDPE) pipes (2 or 3 inches in diameter by 470 feet long) and three conduits (2 inches in diameter by 470 feet long). Where the trench crosses over PG&E gas pipeline, one pipe sleeve (approximately 4 inches in diameter by 20 feet long, actual dimension may vary depending on field conditions) will be used to contain the HDPE pipes. Therefore, the total pipe length is 2x470+1x20 = 960 feet and total conduit length is 3x470 = 1,410 feet.
- The estimated volume of soil to be displaced from pipeline trenching (see dimension above) and excavation to install pull boxes and a well vault is approximately 124 cubic yards

There are no additional impacts to biological and historical resources associated with this new pipeline and related infrastructure. Similarly, cultural resources have also been evaluated with Tribes and no additional impacts are anticipated which are not already evaluated in the 2018 Subsequent Environmental Impact Report (SEIR).

## **Work Variance Request Form (Continued)**

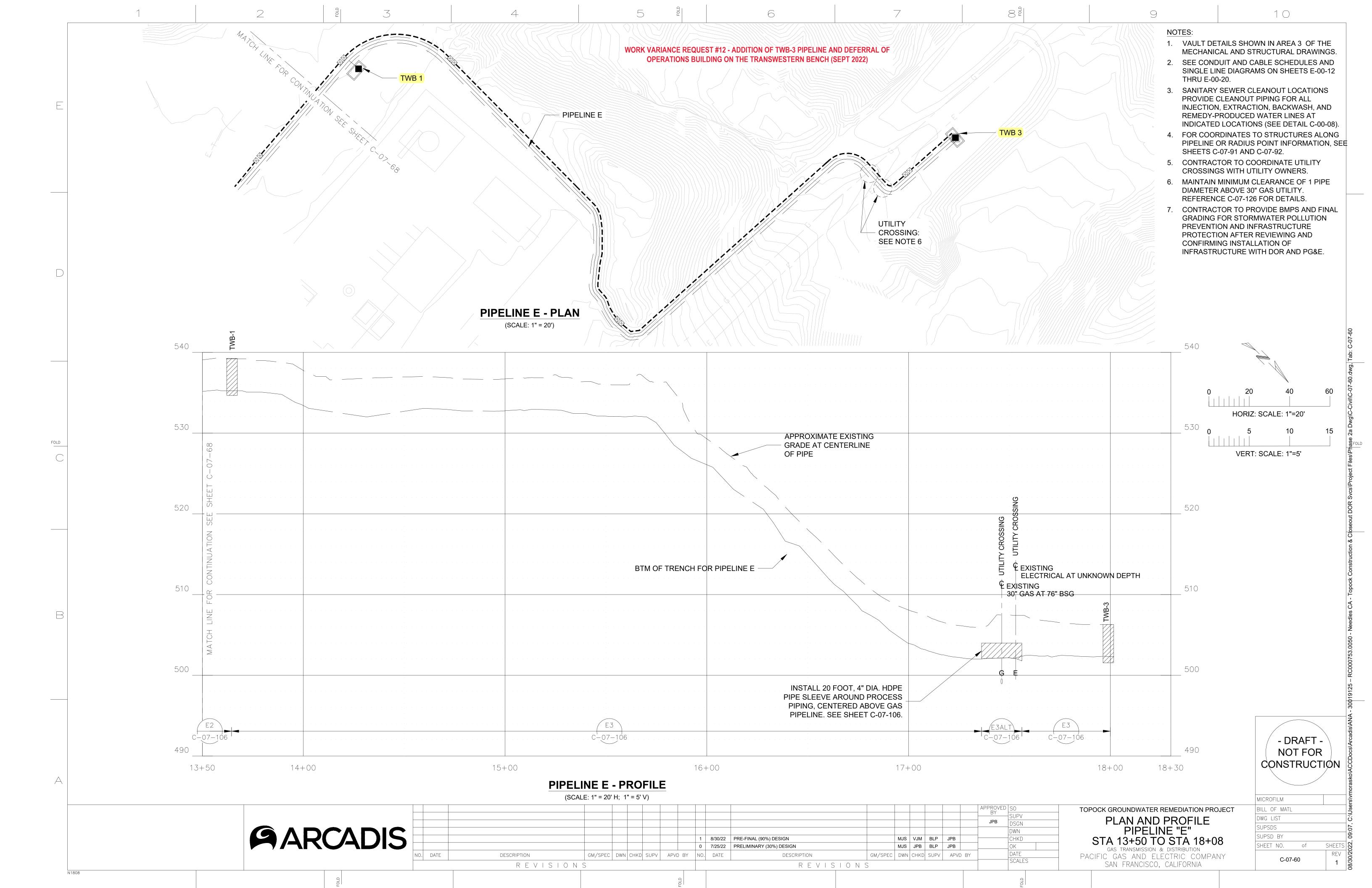
Groundwater Remedy Phase 2A Construction, PG&E Topock Compressor Station, Needles, California

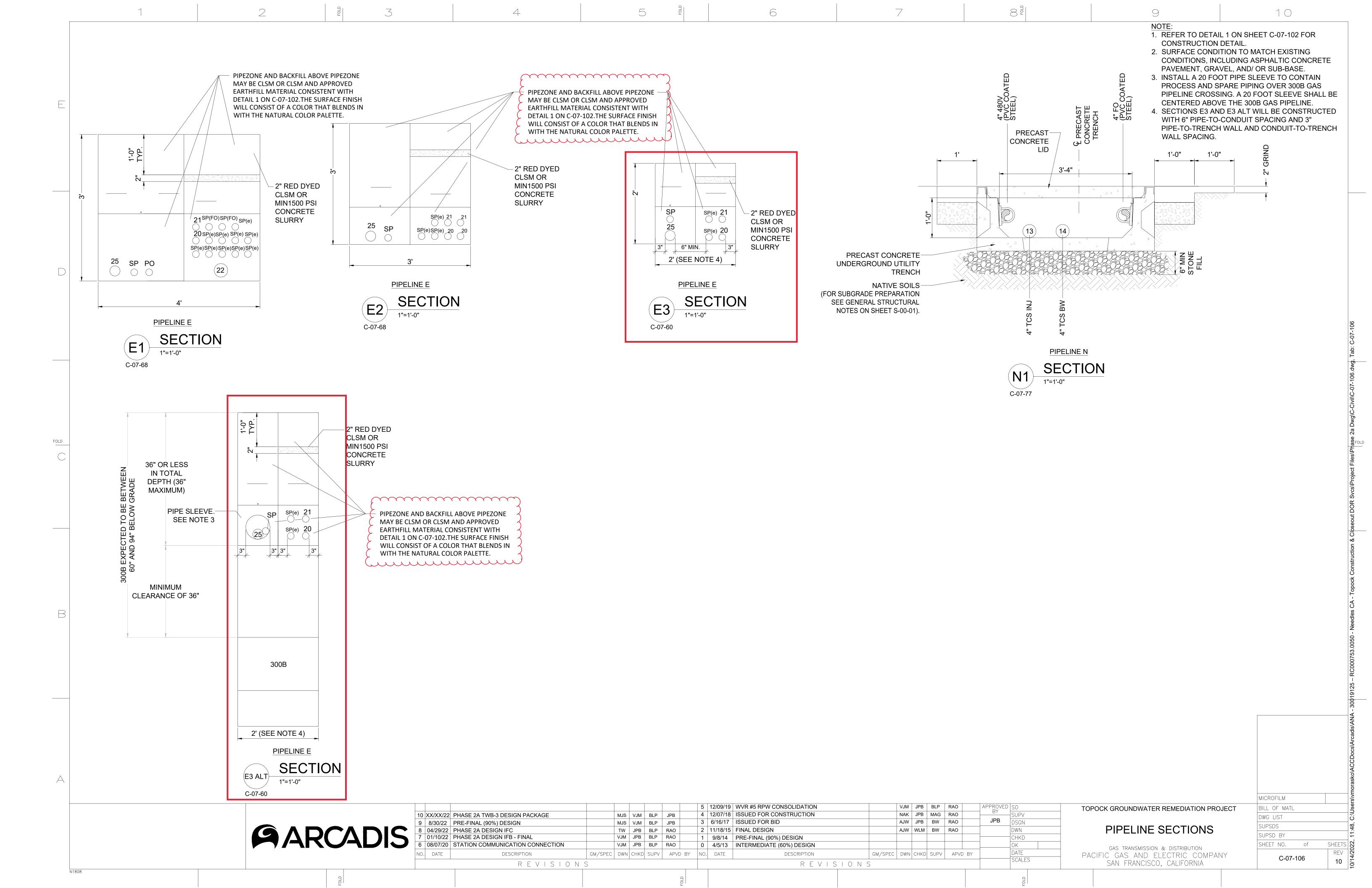
#### **PG&E TOPOCK GROUNDWATER REMEDIATION PROJECT**

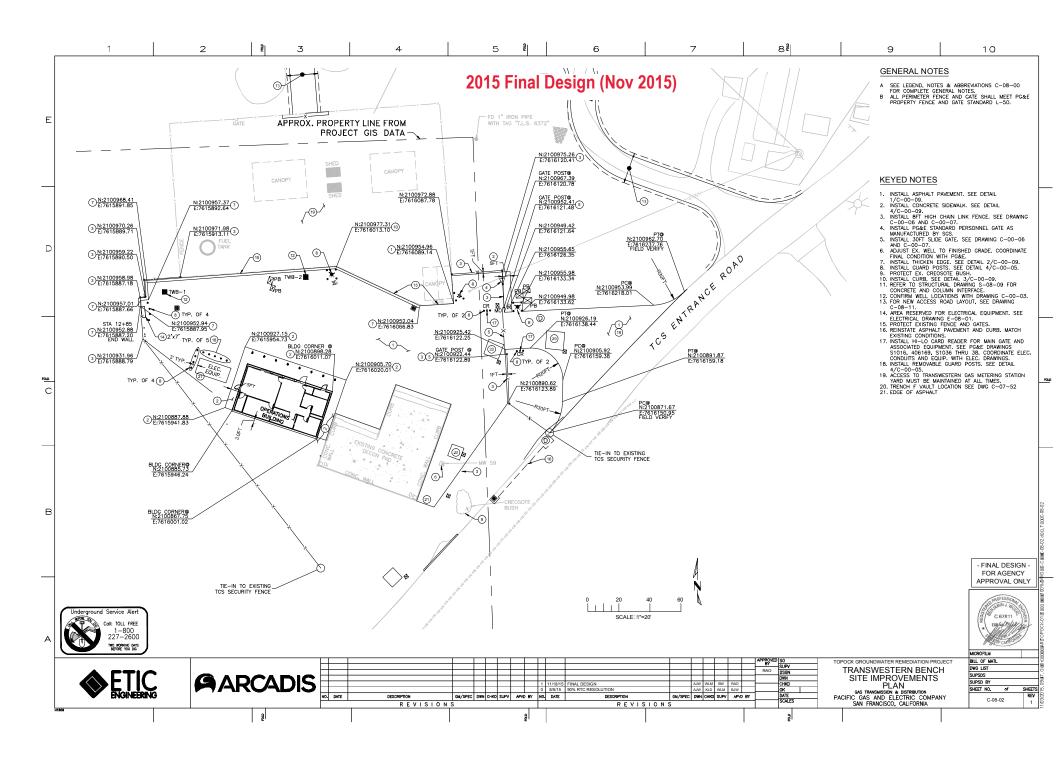
Work Variance Request #12 – Proposed addition of pipelines/conduits to connect existing extraction well TWB-3 and deferral of the Operations Building on the Transwestern Bench

b) Defer construction of the Operations Building at the Transwestern Bench. The current use of the Carbon Amendment Building to house the electronical hardware (e.g., Programmatic Logic Controller [PLC]), the conex boxes in the CHQ for equipment/spare parts storage, and the offices in the SPY trailer for O&M workers negate the need for the Operations Building on the Transwestern Bench at this time.

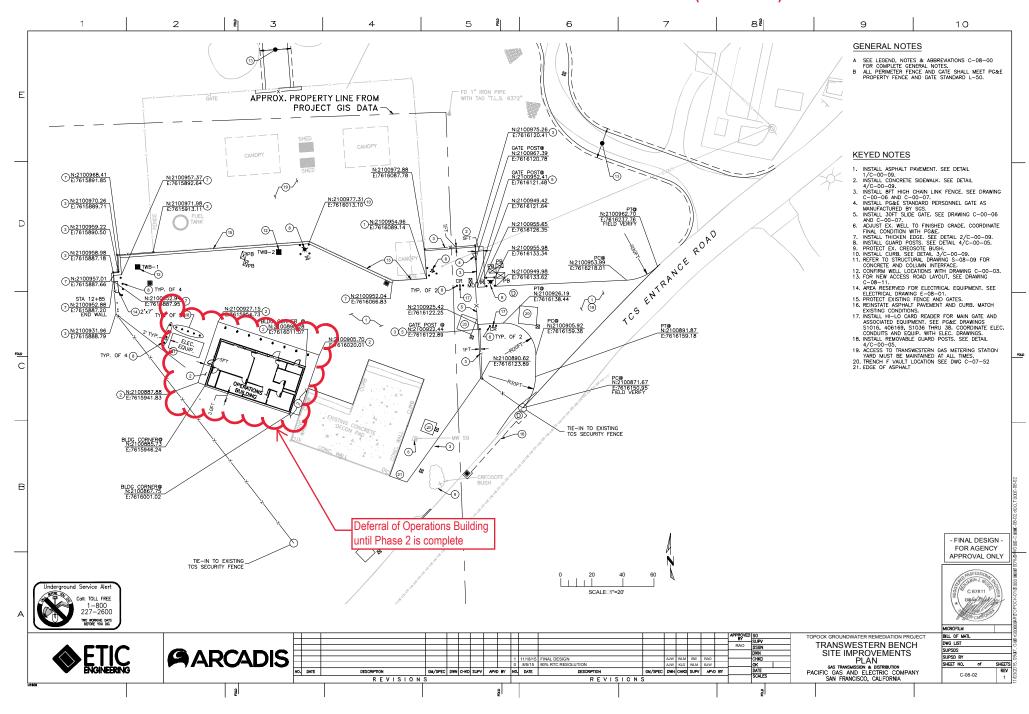
| Approval Signatures: |         | Xora An-  |            |
|----------------------|---------|---|------------|
| Kustin Conne         | 9/23/22 | Ame In  | 10/19/2022 |
| PG&E Project Manager | Date    | Approving Agency  | Date       |
| Sten V. What         | 9/23/22 | VERONICA DICKERSON Digitally signed by VERONICA DICKERSON Date: 2022.10.20 18:00:36 -04'00' |            |
| PG&E QA Manager      | Date    | Approving Agency  | Date       |







# WORK VARIANCE REQUEST #12 - ADDITION OF TWB-3 PIPELINE AND DEFERRAL OF OPERATIONS BUILDING ON THE TRANSWESTERN BENCH (SEPT 2022)



# Future Activity Allowance Determination Matrix for Work Variance Request (WVR)

| No  | Work Variance Request No. <u>12</u> Date: <u>10/19/20</u>   | 22  |  |  |  |  |
|---|---|---|--|--|--|--|
| Future Activity Allowance is an activity that is not considered in the remedy design but necessary to support the project objectives. Future Activity Allowance is a Material Deviation which is defined in the final groundwater remedy design as: Material Deviation means a change or correction required to prevent a condition that would (1) render the approved design non-compliant with codes, regulations, and /or engineering standard of practices, (2) render planned well locations and/or constructions fail to meet the project objectives, (3) cause significant schedule delay, and/or (4) cause a significant increase in costs. (CH2M Hill, 2015) |   |   |  |  |  |  |
| ro<br>he<br>of  | According to the SEIR Project Description, "The inclusion of the Future A to account for minor adjustments (work variances) of the remedy design from field conditions. DTSC's objective for the inclusion of the Future Act the potential impacts of needing to take additional but previously unforecontemplated as part of the Final Remedy Design but are activities that to find the remedy, or are necessary to gather additional information on the aid in the transition of the active remedy to monitored natural attenuation. | during construction resulting<br>tivity Allowance is to consider<br>eseen activities that were not<br>would improve the performance<br>remedy performance, and/or |  |  |  |  |
| 1.  | 1. Are all components of the WVR in the approved final design as revie $oxtimes$ Yes $oxtimes$ No   | wed in the SEIR?  |  |  |  |  |
| 2.  | <ul><li>Are all components of the WVR staying within an infrastructure align design?</li><li>☐ Yes ☒ No</li></ul>   | nment in the approved final   |  |  |  |  |
| f answers to both 1 and 2 are Yes, STOP – action is not Future Activity Allowance   |   |   |  |  |  |  |
| 3.  | <ol> <li>For components not in approved final design, will the WVR require n in the final design and create new ground disturbance beyond those  ☑ Yes □ No</li> </ol>  |   |  |  |  |  |
| f answer is No, STOP – action is not Future Activity Allowance. If Yes, proceed   |   |   |  |  |  |  |
| 1.  | <ol> <li>For components not in approved final design and require new access will the ground disturbing activity be outside the 2018 SEIR project b              □ Yes</li></ol>   | _   |  |  |  |  |
| f answer is Yes, STOP – action is subject to additional CEQA evaluation. WVR approval will be considered after DTSC completes CEQA determination.   |   |   |  |  |  |  |
| 5.  | 5. For WVR requiring new access and/or new ground disturbance, but papproved final design and within the 2018 SEIR project boundary, is field conditions which are outside the control of the operator (e.g. reground, existing design jeopardizes health and safety, modification to existing design does not conform to engineering standards, etc.)?     Yes     No  | the variance necessitated by efusal during drilling, unstable   |  |  |  |  |
|   |   |   |  |  |  |  |

Since the answer is Yes, action is a Future Activity Allowance. DTSC notes that BLM consulted with Tribes on the new pipeline route options. A site walk was conducted on June 23, 2022, with four different pipeline route options. The Tribes evaluated the options and FMIT provided feedback to DOI,

Future Activity Allowance Determination Matrix WVR No. 12 Page 2 of 2

BLM, DTSC, and PG&E on July 8, 2022. The Fort Yuma Quechan Tribe concurred with FMIT's recommendation on July 11, 2022. WVR#12 reflects the FMIT and the Fort Yuma Quechan Tribal route preference.

| 6.  | <ul> <li>Does the addition of WVR cause an exceedance from i certified Final SEIR (Table 3-1 for well boreholes; Table communication conduit, roadway improvements, or si volume of soil disturbance and Table 3-5 for water usa</li> <li>☐ Yes</li> <li>☒ No</li> </ul> | e 3-2 for pipeling<br>izes of buildings | e trenches, electrical/ |
|-----|--|---|-------------------------|
| cor | f answer is Yes, STOP – action is subject to additional CEQ onsidered after DTSC completes a CEQA checklist to deteignificant environmental impacts than disclosed in the 20   | rmine if there a                        | • • •                   |
| 7.  | <ul> <li>Other extenuating circumstances or information for F.</li> <li>☐ Yes – provide information and/or justification</li> </ul>  | AA consideratio                         | ons: 🗵 No               |
| Coi | Conclusion: WVR No. 12   | ] is not a FAA                          | ⊠ is a FAA              |
| Sig | ignature of DTSC reviewer:   | _ Date:                                 | 10/19/2022              |