

EXHIBIT A

AUTHORITY, PURPOSE AND SCOPE OF WORK

1. Authority & Purpose

The California Department of Housing and Community Development (hereinafter "Department") is the lead and responsible entity for administering the Community Development Block Grant – Disaster Recovery (hereinafter "CDBG-DR") program funds and the administering the Community Development Block Grant – Mitigation program funds (hereinafter "CDBG-MIT") appropriated under Public Law 115-123 and allocated to the State of California by the Department of Housing and Urban Development (hereinafter "HUD"). CDBG-DR and CDBG-MIT supports the State of California's recovery needs related to the Federal Emergency Management Agency's Major Disaster Declaration DR-4344 in October 2017 and DR-4353 in December 2017. CDBG-DR Infrastructure Program (hereinafter "DR-Infrastructure ") projects are funded to meet the unmet infrastructure needs of eligible California units of local government. CDBG-MIT Resilient Infrastructure Program (hereinafter "MIT-RIP") projects are funded by CDBG-MIT funds to meet the unmet mitigation infrastructure needs of eligible California units of local government.

2. Scope of Agreement

A. Grant Funds

Subject to the terms and conditions of this Master Standard Agreement (hereinafter "Agreement"), the Department has allocated and agrees to provide Grant Funds in the maximum amount identified below to City of Napa (hereinafter "Subrecipient") for all Subrecipient Work (defined below) and Project Work (defined below) identified in this Agreement (hereinafter "Subrecipient Allocation"). All payments made to the Subrecipient will adhere to the provisions described in Exhibit B, Section 3 (Method of Payment) herein. In no instance shall the Department be liable for any costs in excess of this amount, nor for any unauthorized or ineligible costs or expenses. The MIT-RIP Subrecipient Allocation is and shall not exceed \$567,125.

This Agreement governs the Subrecipient Allocation and each individual project ("Project") thereafter proposed by the Subrecipient and approved by the Department ("Approved Project"), the budget for each of which is to constitute some portion of the Subrecipient Allocation. The cumulative total amount of all Approved Projects shall not exceed the total amount of the Subrecipient Allocation.

The Department, in conjunction with its internal DR-Infrastructure Review Board and/or internal MIT-RIP Review Board, shall make individual Project application approval determinations pursuant to the 2017 DR-Infrastructure and MIT-RIP

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Policies and Procedures (“DR-Infrastructure and MIT-RIP Policies and Procedures”), HUD guidelines and regulations, subject to the DR-Infrastructure Program requirements to spend 80% of DR-Infrastructure program funds in the HUD Identified Most Impacted and Distressed areas (MID) and 70% of grant-wide funds for Low- to Moderate Income (LMI) benefit. Applications may be approved, conditioned, or denied in the sole discretion of the Department. If the Subrecipient disagrees with the Department’s decision with respect to its application, the Subrecipient may elect to file an appeal of that decision in accordance with the Project selection appeals process detailed in Section 3.1.11 of the DR-Infrastructure and MIT-RIP Policies and Procedures.

The Department, in conjunction with its internal MIT-RIP Review Board, shall make individual Project application approval determinations pursuant to the DR-Infrastructure and MIT-RIP Policies and Procedures, HUD guidelines and regulations, subject to the MIT-RIP requirements to spend 50% of MIT-RIP funds to the benefit of the MID, 50% of MIT-RIP program funds to be spent in the MID, and 50% of grant-wide funds for LMI benefit, or waivers and/or alternative requirements from HUD (along with any required and approved Action Plan Amendments). Applications may be approved, conditioned, or denied in the sole discretion of the Department. If the Subrecipient disagrees with the Department’s decision with respect to its application, the Subrecipient may elect to file an appeal of that decision in accordance with the Project selection appeals process detailed in Section 3.1.11 of the DR-Infrastructure and MIT-RIP Policies and Procedures.

B. Implementation of Agreement

By entering into this Agreement and thereby accepting the Subrecipient Allocation of Grant Funds, the Subrecipient agrees to comply with and implement this Agreement in a manner satisfactory to the Department and HUD and consistent with all applicable guidelines and standards that may be required from time to time as a condition of the Department providing the Grant Funds, including but not limited to, all applicable CDBG-DR and/or CDBG-MIT Program administration and compliance requirements set forth by this Agreement, and in accordance with the due diligence documentation previously provided by the Subrecipient and made a part hereof. The Department’s providing of Grant Funds under this Agreement is specifically conditioned on Subrecipient’s compliance with this provision and all other terms and conditions of this Agreement, the Notice to Proceed (defined below), the most recently published version of the DR-Infrastructure and MIT-RIP Policies and Procedures, the Department’s CDBG-DR Action Plan for 2017 disasters and any amendments thereto, the Department’s CDBG-MIT Action Plan for 2017 disasters and any amendments thereto, related Federal Register notices, and the requirements of

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the authorities cited above, as all of the same may be amended from time to time.

This Agreement is subject to written modification and termination as necessary by the Department in accordance with requirements contained in any future state or federal legislation and/or state or federal regulations. All other modifications must be in written form and approved by both parties.

3. **Subrecipient Scope of Work**

The Subrecipient scope of work (hereinafter “Subrecipient Work”) for this Agreement shall consist of the Subrecipient submitting individual Project applications to the Department and managing Approved Projects through the lifecycle of the grant, as outlined in the exhibits of this Agreement and the DR-Infrastructure and MIT-RIP Policies and Procedures. The obligations undertaken by the Subrecipient include, but are not limited to, the obligation to comply with all local, state, and federal laws, regulations, and grant requirements.

- A. Subrecipient shall collect data and submit reports to the Department in accordance with the reporting requirements detailed in section 23 of Exhibit D herein.
- B. Subrecipient shall meet all Project milestones, project-specific special conditions, budgetary and otherwise, and other requirements, as may be set forth in the Notice to Proceed (hereinafter “NTP”) of Exhibit F for each Approved Project.
- C. Subrecipient shall comply with all Project closeout procedures, timely and accurately, including responding to the Department’s requests for additional information in support of Project closeout in reasonable timeframe.
- D. Subrecipient shall submit requests for reimbursement to the Department no less frequently than quarterly and no more frequently than monthly with end-of-quarter reimbursement requests being due to the Department by the 10th calendar day of the month following the end of the preceding quarter. For purposes of this provision, the first full month following the effective date of this Agreement shall constitute the first month of the first quarter.

4. **Other Funding Sources**

- A. **Other Funding Sources:** All other sources of funding required to complete the Approved Project must be identified, committed, and documented prior to, and as a condition of, the Department’s issuance of the NTP. If at any time, those identified and secured sources change, the Subrecipient must notify the Department within 10 days of the Subrecipient’s knowledge that funding sources

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are changing. The terms and conditions of all financing shall be subject to the Department's review and approval. The Department reserves the right to re-review a Project application at any time in the event there is a change in the amount of, or the material terms and conditions of, any third-party funding for the Project.

5. **Effective Date and Commencement of Work**

- A. This Agreement is effective upon approval by the Department representative's signature on page one of the fully executed Standard Agreement, STD 213 (the "Effective Date").
- B. Subrecipient agrees that no choice-limiting actions toward the implementation of the Submitted Project(s) shall commence, nor shall any costs be paid with CDBG-DR and/or CDBG-MIT funds incurred or obligated by any party, without prior authorization from the Department via a NTP and prior to the execution of this Agreement by the Department. Additionally, for public facility-related activities, proof of the recorded DR-Infrastructure Regulatory Agreement and/or MIT-RIP Regulatory Agreement must be submitted to and accepted by the Department prior to the start of construction on an Approved Project. Details on the Regulatory Agreement will be included in the NTP. Notwithstanding the foregoing, there are two circumstances when costs may be incurred prior to the execution of this Agreement. First, Activity Delivery expenses for environmental compliance work for intended Project Applications may be incurred prior to the execution of this Agreement provided that such expenses are eligible and are supported by documentation satisfactory to the Department. Second, with Program Manager or Section Chief written approval, other costs may also be incurred prior to the execution of this Agreement, such as the cost of procuring consultants and architectural, engineering and other professional services required to prepare plans, drawings, specifications, or work write ups that are incurred not more than 24 months prior to the Approved Project being set up in DRGR, provided these procurements are conducted in a manner consistent with 2 CFR 200.317 – 200.326, "Procurement Standards".

6. **Term of Agreement and Performance Milestones**

- A. Term of Agreement: With the exception of the grant closeout procedures set forth in Exhibit B, Section 6, the Subrecipient shall complete all Approved Project activities on or before the expenditure deadline identified on the STD 213 of this Agreement and identified below. Time is of the essence in order to ensure complete and compliant Projects before grant closeout. Failure by Subrecipient to complete all such activities before the expenditure deadline may result in the Department recapturing some or all of the Subrecipient Allocation from

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Subrecipient.

All Project applications must be submitted to and received by the Department by: **1/31/2022**. Upon review and approval or rejection of all Project applications, the Department reserves the right to reallocate unobligated Grant Funds within the DR-Infrastructure program and/or MIT-Resilient Infrastructure Program, in its sole and absolute discretion.

All Grant Funds must be expended by: **August 31, 2025, unless expressly extended by the Department in writing.**

This Agreement will expire on: **February 28, 2026, unless expressly extended by the Department in writing.**

These deadlines apply to both the DR-Infrastructure program and MIT-RIP.

- B. Performance Milestones: Subrecipient shall adhere to the performance milestones below. Time is of the essence with respect to all such milestones.
1. Subrecipient must submit all Project applications to the Department by the deadline identified in the then applicable DR-Infrastructure and MIT-RIP Policies and Procedures.
 2. Subrecipient must complete all design and engineering within two years of the Effective Date of this Agreement.
 3. Subrecipient must initiate construction, reconstruction, acquisition, or rehabilitation on all Approved Projects awarded DR-Infrastructure and/or MIT-RIP funding within three years of execution of this Agreement.
 4. Subrecipient must fully obligate all DR-Infrastructure and/or MIT-RIP Project funds within four years of execution of this Agreement. If Subrecipient fails to fully obligate DR-Infrastructure and/or MIT-RIP Project funds within four years of execution of this Agreement, the Department reserves the right to deobligate, recapture, and/or reallocate the Subrecipient's allocation amount in this Agreement by the amount then unobligated.

Failure to meet performance milestones:

If any performance milestones listed above are not timely met by Subrecipient as required, the Department reserves the right to withhold further payments (including, but not limited to, activity delivery fees) on one or more projects to

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Subrecipient until such time as satisfactory progress is made toward meeting the performance measures. Subrecipient shall diligently work with DR-Infrastructure and/or MIT-RIP staff to submit: (a) a written mitigation plan specifying the reason for the delay; (b) the actions to be taken to complete the task that is the subject of the missed measure deadline; and (c) the date by which the completion of said task will occur.

The Department, in its sole and absolute discretion, reserves the right to reallocate unobligated Grant Funds within the DR-Infrastructure program and MIT-RIP Program if the Department determines the Subrecipient is unable to meet the performance milestones in a timely manner following a failure of Subrecipient to meet any milestone(s). The Department reserves all rights and remedies available to it in case of a default by Subrecipient of its responsibilities and obligations under the terms of this Agreement. All remedies available to the Department are cumulative and not exclusive.

- C. The Subrecipient and its Contractors, as applicable, shall adhere to all performance and Project milestones as established above and in each Approved Project NTP.

Upon review and approval of a Project application, the Department will issue a NTP to obligate activity funds to an Approved Project. The NTP will include the Project description and Project-specific scope of work (hereinafter "Project Work"), time of performance, Project budget, Project-specific special conditions, and Project performance measures, and shall be implemented through this Agreement and subject to the terms and conditions thereof. For each Approved Project, that Project's application, supporting materials and the NTP are thereafter automatically incorporated into this Agreement as its own separate addendum hereto, uniquely identified for ease of monitoring and compliance purposes.

The Department reserves the right to monitor and approve all Subrecipient Work and Project Work in relation to this Agreement and the NTP(s). Any revisions to the Subrecipient Work and/or Project Work which the Department believes are substantial in nature may require a re-review of the affected Approved Project by the DR-Infrastructure Review Board and/or MIT-RIP Review Board and its subsequent approval thereof. Requests for substantial revisions to the Subrecipient Work and/or Project Work must be submitted in writing for review and approval by the Department in its discretion. Any approval shall not be presumed unless such approval is made by the Department in writing.

7. Notice to Proceed Revisions

- A. Adjustments to the Subrecipient Work and/or Project Work that do not require an

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increase or reduction of Project scope or a change in the type and/or number of beneficiaries assisted may be completed as a Notice to Proceed revision (“NTP Revision”). NTP Revisions may include, but are not limited to:

1. Adjustments that itemize the Subrecipient Work and/or Project Work, revise milestone deadlines, change the Subrecipient Work and/or Project Work in a manner that does not change the overall budget, National Objective, expenditures in the MID, and type and count of estimated beneficiaries.
 2. Adjustments that increase the estimated number of beneficiaries without increasing or decreasing the scope of work and without changing the overall budget.
- B. NTP Revisions must be approved by the Department in writing prior to implementation by Subrecipient. Approval shall be provided either through Grants Network, or in writing, as determined by the Department. The Department reserves the right to monitor and approve all Subrecipient Work and/or Project Work in relation to this Agreement and the NTP, as modified by any NTP Revisions. NTP Revisions shall be automatically incorporated into this Agreement.

8. **DR-Infrastructure Program and MIT-RIP Contract Management**

- A. Department Contract Manager: The Department Contract Manager for this Agreement is the DR-Infrastructure Program and/or MIT-RIP Manager or its designee. Written communication regarding this Agreement shall be directed to the Department Contract Manager at the following address:

CA Department of Housing and Community Development
Division of Federal Financial Assistance - DR-Infrastructure Program/ MIT-RIP
Suite 200
P.O. Box 952054
Sacramento, CA 94252-2054

- B. Contract Management: Day-to-day administration of this Agreement shall take place via Grants Network, including but not limited to:
1. Financial Reports (Funds Requests)
 2. Activity Reports
 3. Other Reports, as required
 4. Submittal of any and all requested supporting documentation
 5. NTP Issuance and Revisions

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6. Master Standard Agreement Issuance and Amendments
 - C. Subrecipient Contract Administrator: The Subrecipient Contract Administrator (must be a Subrecipient employee) is identified in Exhibit G, Profile. Unless otherwise directed by the Department, any notice, report, or other communication required by this Agreement shall be directed via Grants Network or written to the Subrecipient's Contract Administrator at the contact information identified in Exhibit G, Profile.

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BUDGET DETAILS AND PAYMENT PROVISIONS

1. Availability of Funds

The Department's provision of funding to Subrecipient pursuant to this Agreement is contingent on the availability of CDBG-DR funds and/or CDBG-MIT funds and continued federal and state authorization for CDBG-DR activities and CDBG-MIT activities and is subject to amendment or termination due to lack of funds or authorization. Availability of CDBG-DR funds is subject to the HUD requirement to spend 80% of DR program funds in the MID and 70% of grant-wide DR funds for LMI benefit, unless HUD issues waivers and/or alternative requirements (along with any required and approved Action Plan Amendments). Availability of CDBG-MIT funds is subject to the HUD requirement to spend 50% of MIT-RIP funds to the benefit of the MID, 50% of MIT-RIP program funds to be spent in the MID, and 50% of grant-wide funds for LMI benefit, unless HUD issues waivers and/or alternative requirements (along with any required and approved Action Plan Amendments).

The Department shall be relieved of any obligation for making payments to the Subrecipient if funds allocated to the State of California by HUD cease to be available for any reason or there is any limitation on, or withdrawal of, the Department's authority to administer the CDBG-DR program or any portion thereof.

2. Expenditure of Funds

A. No Activity costs may be incurred, funds reimbursed, or choice-limiting actions taken until and unless Subrecipient provides documented compliance with the National Environmental Protection Act (NEPA) requirements established in 24 CFR 50, 24 CFR 58, and 42 USC 4321, et seq. and California Environmental Quality Act (CEQA); California Code of Regulations, Title 14, Division 6, Chapter 3, Sections 15000 – 15387.

Activity Delivery costs may be incurred prior to documented NEPA and CEQA compliance. See Section 3(A)(3) below for reimbursement requirements of Activity Delivery costs.

B. Priority of Use of Funds

The Subrecipient must utilize funds available under this Agreement to supplement rather than supplant funds otherwise available. To the extent available, the Subrecipient must disburse funds available to the Approved Project from, among other sources, Subrecipient funding, third-party loans or grants, contract settlements, audit recoveries, insurance and condemnation proceeds and interest earned on such funds before requesting or receiving Grant Funds.

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C. Withholding Funds

The Department reserves the right to withhold payments pending timely delivery of program and project reports or documents as may be required under this Agreement, and for defaults by the Subrecipient, as noted in Exhibit D.

D. Deobligation of Funds

The Subrecipient agrees that Grant Funds determined by the Department to be surplus upon completion of an Approved Project(s) will be subject to deobligation (i.e., removed from the Subrecipient Allocation amount in this Agreement) and/or reallocation by the Department. Subrecipient also agrees that if funds are not obligated to Approved Projects by milestones outlined in Section 6 of Exhibit A and/or in one or more project specific NTP of Exhibit F, the remaining funds will be subject to deobligation and/or reallocation by the Department.

E. Indirect Costs

The Department will only consider reimbursement of indirect cost expenditures from Subrecipients that have an approved Indirect Cost Rate Proposal from the Department, HUD or other cognizant federal agency. If Subrecipient does not have an approved Indirect Cost Rate Proposal, Subrecipient shall develop a proposal for determining the appropriate CDBG-DR share of indirect costs and shall submit it to the Department for approval prior to submission of Financial Reports for reimbursement of indirect cost expenditures.

F. Compliance with the OMB Uniform Guidance Audit Requirements

Grant Funds will not be disbursed to any Subrecipients identified by the State Controller's Office (SCO) as non-compliant with the Federal Single Audit Act, as described in the OMB Uniform Guidance and 2 CFR Part 200 Sub-Part F. No funds may be disbursed until compliance with the Uniform Guidance is demonstrated to the satisfaction of the Department.

G. Grant Administration

The Subrecipient agrees to administer this Agreement in accordance with the provisions of Section 7097 through and including Section 7126 of Title 25 of the California Code of Regulations.

3. Method of Payment

Payments will be made directly to Subrecipients as reimbursements based on the

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documented and satisfactory completion of agreed upon milestones detailed in Subrecipient Work and/or Project Work, identified in Exhibit A, and detailed in each Approved Project NTP incorporated in Exhibit F, and confirmation of Subrecipient's compliance with the terms of this Agreement. No advance payments will be allowed to Subrecipients.

Financial Reports shall be submitted by Subrecipient electronically through Grants Network. The Department shall not authorize payments or reimbursements unless it has determined the activities indicated in the Financial Report have been performed in compliance with the terms of this Agreement and any other agreements executed by the parties in connection herewith, as well as all applicable Program requirements. Financial Reports must be for a minimum of \$1,000, except for the final Financial Report, which must be marked "Final". Financial Reports shall be submitted by the Subrecipient to the Department no less frequently than quarterly and no more frequently than monthly.

A. Reimbursements for Costs Incurred

1. The Subrecipient may use Grant Funds for reimbursement by the Department of Eligible Expenses as defined herein, applied to Projects approved by the Department through the application and NTP processes described in Exhibit A and the DR-Infrastructure and MIT-RIP Policies and Procedures. Eligible Expenses include, but are not limited to, costs associated with Subrecipient program implementation including staff time and environmental reviews for Approved Projects, architectural and engineering design, permitting fees, and Approved Project costs for Eligible Infrastructure Activities as determined by the DR-Infrastructure and MIT-RIP Policies and Procedures.
2. The Department will retain 5% of all DR-Infrastructure or MIT-RIP payments for activity delivery costs. The Department shall release to Subrecipient all amounts retained to date following the Department's acceptance and approval of all required closeout documents identified in Section 6 herein.
3. Approved Project Financial Reports for construction shall be made on the actual expenses of eligible DR-Infrastructure and MIT-RIP activities as determined by the DR-Infrastructure and MIT-RIP Policies and Procedures, respectively.
4. Activity Delivery Financial Reports shall be paid only after such costs are expended for Subrecipient Work and/or Project Work completed, provided the Department determines that the Program Performance Milestones in

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this Agreement and/or Approved Project Performance Milestones in the NTP are on track. Subrecipient may expend up to the indicated Activity Delivery amount as identified in the final, executed NTP, a sample of which is attached as Exhibit F hereto.

5. To receive reimbursement for Approved Project activities, the Subrecipient shall timely submit all required Department forms via Grants Network. Financial Reports must include the level of documentation specified by the Department in the Department's Grant Administration Manual located on the Department's website, in order to be reviewed and processed.
- B. Final Financial Reports
1. The final Financial Report for the Subrecipient Allocation must be submitted to the Department before the expenditure deadline of this Agreement.
 2. If the final Financial Report for costs expended during the term of this Agreement has not been received by the Department before the expenditure deadline, the Department may recapture any funds remaining in which case such Grant Funds will no longer be available to the Subrecipient.

4. **Recapture of Funds**

A Subrecipient may be required to repay all or a portion of the funds received from the Department, including Activity Delivery, pursuant to this Agreement. The reasons for a recapture of funds by the Department include, but are not limited to, the following:

- A. The Subrecipient does not comply with the terms of this Agreement or any agreement executed by the Subrecipient and the Department in connection herewith or any Program rules, guidelines, policies, or procedures.
- B. The Subrecipient withdraws voluntarily from the Program prior to completion of the Approved Project(s).
- C. The Subrecipient fails to meet a National Objective for any Approved Project.
- D. The taking of any action, or the failure to take any required action, by Subrecipient which results in HUD requiring the Department to repay, directly or indirectly, all or any portion of any Grant Funds provided to Subrecipient under this Agreement, regardless of when such action or failure to act occurred or when HUD demands repayment from the Department.

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The potential recapture of funds pursuant to this provision is in addition to, and not in lieu of, any other rights and remedies of the Department under this Agreement, and Subrecipient's obligations under this provision shall survive the completion and closeout of the Approved Project(s) and/or the expiration of this Agreement.

5. **Project Budget Revisions and Amendments**

Budget line item adjustments may be made in accordance with the following:

- A. Project Budget Revisions: Adjustments to the Approved Project budget that do not require an increase or reduction of the total Approved Project budget, a change in National Objective, a change in project service location if the Approved Project service location is in a MID area, a change in Program Priority Level below its current Priority Level, a change in the NTP, or a change in the type and/or count of estimated beneficiaries assisted, may be completed as a Project budget revision. Project budget revisions shall include but not be limited to:
- 1) Adjustments that reallocate funds between budget line items, but that otherwise do not change the total allocation amount, the Project Work, the National Objective, the project service location to a non-MID area, the Program Priority Level and type and count of estimated beneficiaries.
 - 2) Adjustments that increase or decrease the detail included in the submitted budget, including adding and removing budget line items, without increasing or decreasing the Project Work and without changing the total allocation amount.

Project budget revisions must be submitted through Grants Network and subsequently approved by the Department prior to implementation. Approval shall be provided through Grants Network.

- B. Agreement Budget Revisions: Adjustments to the Subrecipient Allocation that result in an increased or a reduced total allocation amount shall require an Agreement amendment. Agreement amendments must be fully executed by both the Subrecipient and the Department in Grants Network prior to implementation.

6. **Project Closeout Procedures**

The Subrecipient must submit the following to the Department within 90 days of the completion of each Approved Project.

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- 1) A Final Activity Report (Project Completion Report) that includes all required reporting data for the Approved Project, including but not limited to, eligible activities, costs, beneficiaries, and National Objective compliance.
- 2) A recorded Notice of Completion.
- 3) Relocation Report: A relocation report is required for those Approved Projects where relocation activities were undertaken pursuant to a Residential Anti-displacement and Relocation Assistance Plan (RARAP) (Section 2.3.21 of the DR-Infrastructure and MIT-RIP Policies and Procedures).
- 4) Final Labor Standards Report as described in Exhibit D(23)(A)(3) herein.
- 5) Evidence, satisfactory to the Department, of Subrecipient's compliance with any other special conditions of this Agreement; and,
- 6) A resolution from the governing body acknowledging the accomplishments of the Approved Project and confirming that the Approved Project is complete and that all Financial Reports have been timely processed and reimbursed.

Upon receipt of the above documentation, the Department will close the NTP and finalize the activity in Disaster Recovery Grant Reporting (DRGR) system for final reporting to HUD.

7. Document Retention Policy

Subrecipient shall retain all books, records, accounts, documentation, and all other materials relevant to this Agreement for a minimum period of five (5) years after the Department notifies the Subrecipient that the grant agreement between HUD and the State of California has been closed.

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CDBG-DR and CDBG-MIT TERMS AND CONDITIONS

1. Definitions

Activity Funds – means any eligible, reasonable, and necessary costs that are directly related to labor and/or direct construction and/or direct Project implementation costs which will meet a national objective as defined in 42 U.S.C. 5304(b)(3), as amended and 24 CFR 570.483.

Activity Delivery Funds - means any eligible, reasonable, and necessary costs for the implementation, management or oversight of a Project.

Activity Reports – Reports submitted by the Subrecipient that describe Approved Project progress and/or beneficiaries served during a given reporting period.

Approved Project – A Project that has been submitted to the Department and reviewed and approved with a Notice to Proceed to fund with the Subrecipient Allocation by the Department.

Area Median Income (AMI) - means the median family income for specific geographic areas, adjusted for household size, as calculated by HUD, and published annually by the Department at <https://www.hcd.ca.gov/grants-funding/income-limits/state-and-federal-income-limits.shtml>.

California Environmental Quality Act (CEQA) - The California statute that requires state and local agencies to identify the significant environmental impacts of their actions and to avoid or mitigate those impacts, if feasible.

Contractor - a properly licensed person or company who is procured competitively that Subrecipients hire to undertake a contract to provide materials or labor to perform a service or do a job for a Project.

Department – means the California Department of Housing and Community Development.

Disaster Recovery Grant Reporting System (DRGR) – The electronic system primarily used by the Department to access Grant Funds from HUD and report performance accomplishments for grant-funded activities to HUD. The DRGR system is used by HUD to review grant-funded activities, prepare reports to Congress and other interested parties, and monitor program compliance.

Duplication of Benefits (DOB) - Financial assistance received from another source that is provided for the same purpose as the CDBG-DR and/or CDBG-MIT funds, in

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accordance with Federal Register Notices 84 FR 28836 and 84 FR 28848.

Eligible Expenses – Those necessary and reasonable costs under 2 CFR 200.400 through 475, and applicable notices and waivers, and as identified in the DR-Infrastructure and MIT-RIP Policies and Procedures Manual, and as approved by the Department via a Notice to Proceed. Eligible Expenses do not include any costs which are disallowed or otherwise deemed ineligible by the State of California and/or HUD.

Financial Reports (Funds Requests) - the forms and processes required for a Subrecipient to request the drawdown of Grant Funds.

Grant Funds – The CDBG-DR and CDBG-MIT funds allocated to the Subrecipient for the implementation of the DR-Infrastructure and MIT-RIP programs and eligible, Approved Projects. Grant Funds include Activity Funds and Activity Delivery Funds.

Household - One or more persons occupying a housing unit.

HUD – The United States Department of Housing and Urban Development.

Indirect Costs - means those costs incurred for a common or joint purpose benefitting more than one cost objective, and not readily assignable to the cost objectives specifically benefitted, without effort disproportionate to the results achieved. To facilitate equitable distribution of indirect expenses to the cost objectives served, it may be necessary to establish a number of pools of indirect costs. Indirect cost pools must be distributed to benefitted cost objectives on bases that will produce an equitable result in consideration of relative benefits derived.

Indirect Cost Rate Proposal - means the documentation prepared by a governmental unit or subdivision thereof to substantiate its request for the establishment of an indirect cost rate as further defined in 2 CFR 200.56 and 2 CFR 200.57.

Infrastructure – means an infrastructure repair which is an eligible activity according to 42 USC 5305(a)(2), which authorizes the acquisition, construction, reconstruction, or installation (including design features and improvements with respect to such construction, reconstruction, or installation that promote energy efficiency) of public works, facilities (except for buildings for the general conduct of government), and site or other improvements.

Low- and Moderate- Income (LMI) – Low- and moderate-income people are those having incomes not more than the “moderate-income” level (80% Area Median Family Income) set by the federal government for the HUD-assisted housing programs. This income standard changes from year to year and varies by household size, county and the metropolitan statistical area.

Master Standard Agreement (“Agreement”) – The contractual arrangement between the

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Department and the Subrecipient which sets forth the terms and conditions by which CDBG-DR and/or CDBG-MIT funds must be utilized with regards to Approved Projects.

National Environmental Policy Act (NEPA) – The federal law and associated regulations which establishes a broad national framework for protecting the environment. NEPA's basic policy is to assure that all branches of government consider environmental and related social and economic effect prior to undertaking any proposed action. All HUD-assisted projects are required to undergo an environmental review.

Notice to Proceed (NTP) – The NTP is a binding document, approved as to form as a component of the Agreement, that amends the allocation agreement between the Subrecipient and the Department by committing funds to a specific Project. A fully executed NTP is required for each Approved Project, and no work may be commenced, costs or expenses incurred, nor choice-limiting action(s) taken by Subrecipient prior to the execution of the NTP. The NTP includes, among other things, various Project details, including but not limited to the following: a description of the Approved Project and the permitted uses of program funds; the Approved Project budget and sources and uses of funds and financing; the approved schedule of the Project; the deadlines for the commencement and completion of construction or rehabilitation work; Performance milestones; Performance penalties; and any special conditions applicable to the Approved Project.

Project – Per 49 CFR 24.2(a)(22), project means any activity or series of activities undertaken by a Federal Agency or with Federal financial assistance received or anticipated in any phase of an undertaking in accordance with the Federal funding Agency guidelines. See DR-Infrastructure and MIT-RIP Policies and Procedures Section 1.2.

Subrecipient – A unit of local government receiving a direct allocation of Grant Funds from the Department for the purpose of funding Approved Projects to be carried out by the Subrecipient.

Subrecipient Allocation – The amount of Grant Funds allocated to the Subrecipient for Project Work.

Subrecipient Work – the scope of work required of the Subrecipient as set forth in section 3 of Exhibit A, and the scope of work required of an Approved Project(s) as set forth in its Notice(s) to Proceed.

Urgent Need - The Urgent Need National Objective requires that the project is designed to meet community development needs having a particular urgency. In the absence of substantial evidence to the contrary, a project is considered to address this National Objective if the design of the project is certified to alleviate existing conditions which pose a serious and immediate threat to the health or welfare of the community which are of recent origin or which recently became urgent, that the Subrecipient is unable to

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finance the activity on its own, and that other sources of funding are not available. A condition is generally considered to be of recent origin if it developed or became critical within 18 months preceding the certification by the Subrecipient.

Urgent Need Mitigation -- UD has created a new National Objective - Urgent Need Mitigation (UNM) for CDBG-MIT programs. This National Objective provides a better fit for CDBG-MIT activities that aim to address risks that do not tie back to the disaster events of the 2017 CDBG-DR funding, or subsequent disasters.

Projects using the UNM national objective must provide documentation that demonstrates a measurable and verifiable impact on reducing risks at the completion of the activity UNM projects must:

- Address the current and future risks as identified in the Mitigation Needs Assessment; and
- Result in a measurable and verifiable reduction in the risk of loss of life and property.

2. National Objectives

All DR-Infrastructure Projects approved under this Agreement must be eligible and as a CDBG-DR funded activity must meet a National Objective as required under 24 CFR 570.200(a)(2). Under section 101(c) of the authorizing Act (42 U.S.C. 5301) the CDBG program must ensure that the funded activity meets one of the named national objectives. The two qualifying national objectives are:

- Benefiting low- and moderate-income persons (LMI); and
- Meeting an Urgent Need.

Upon completion of the Approved Project(s) funded under this Agreement and prior to the funding expenditure deadline of this Agreement, the Subrecipient must document that the Approved Project(s) met either the LMI National Objective or the Urgent Need National Objective. The Department shall review the actual National Objective achievements of the Subrecipient.

All MIT-RIP Projects approved under this Agreement must be eligible and as a CDBG-MIT funded activity must meet a National Objective as required under 24 CFR 570.200(a)(2). Under section 101(c) of the authorizing Act (42 U.S.C. 5301) the CDBG program must ensure that the funded activity meets one of the named national objectives. The two qualifying national objectives are:

- Benefiting low- and moderate-income persons (LMI); and
- Meeting an urgent need mitigation.

Upon completion of the Approved Project(s) funded under this Agreement and prior to the funding expenditure deadline of this Agreement, the Subrecipient must document that the Approved Project(s) met either the LMI National Objective or the Urgent Need

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Mitigation National Objective. The Department shall review the actual National Objective achievements of the Subrecipient.

3. **Duplication of Benefits**

A Duplication of Benefits (DOB) occurs when a program beneficiary receives assistance from multiple sources for a cumulative amount that exceeds the total need for a particular recovery purpose. The amount of the duplication is the amount of assistance provided in excess of the need. It is the Department's responsibility to ensure that DR-Infrastructure and MIT-RIP provides assistance only to the extent that the disaster recovery need has not been fully met by funds that have already been paid, or will be paid, from another source.

The Subrecipient must report all funds obtained for the activity from any source from the date of the disaster until the Project is completed.

Additionally, the Department, in coordination with the Subrecipient, will perform a check for DOB prior to issuing a Notice to Proceed to ensure that duplicative assistance is not provided for the Project. The Department also reserves the right to require that the Subrecipient perform additional DOB checks throughout the course of the Approved Project's period/performance, up to and through the closeout of each Approved Project, to ensure there is no duplicative assistance throughout the course of the Approved Project. Any person who knowingly makes a false claim or statement to HUD may be subject to civil or criminal penalties under 18 U.S.C. Sections 287, 1001, and 31 U.S.C. Section 3729.

The Subrecipient agrees to repay to the Department any assistance later received for the same purpose as the CDBG-DR and/or CDBG-MIT funds and that exceeds the total need for the particular recovery purpose. The obligations of Subrecipient to repay the Department for any Duplication of Benefit shall survive the completion of the Approved Project(s) and the expiration or earlier termination of this Agreement.

4. **Remedies and Termination for Noncompliance; Appeals**

Remedies for Noncompliance: In addition to any other rights and remedies the Department may have under this Agreement, at law, or in equity, the Department may initiate remedies for noncompliance as identified in 2 CFR 200.338-.339 at any time it has been determined that the Subrecipient is no longer meeting the terms and conditions of this Agreement. Remedies for noncompliance may be required in addition to, in lieu of, or prior to termination. Such remedies for noncompliance with a federal statute or regulation, a state statute or regulation, an assurance, in a state plan or application, an NTP, or elsewhere may include, as appropriate:

A. Temporarily withhold cash payments pending correction of the deficiency by the

17-MITRIP-17002

NOI Date: 11/02/2020

Approved Date: 4/13/2021

Prep Date: 09/24/2021

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Subrecipient.

- B. Disallow all or part of the cost of the action not in compliance.
- C. Wholly or partly suspend or terminate the Subrecipient's Allocation of Grant Funds.
- D. Withhold further and/or future awards for CDBG-DR and/or CDBG-MIT funds and/or any other funds administered by the Department.
- E. Request that the Federal Awarding Agency initiate suspension or debarment proceedings.
- F. Take other remedies that may be legally available, such as:
 - 1) In the case of costs incurred without meeting a National Objective, require repayment of all funds reimbursed and/or paid to the Subrecipient, including Activity Delivery Funds, as appropriate.
 - 2) In the case of Duplication of Benefits, require repayment of all CDBG-DR and/or CDBG-MIT funds reimbursed and/or paid to the Subrecipient where other financial assistance was received for the same purpose or in excess of the need.

In taking an action to remedy noncompliance, the Department will provide the Subrecipient an opportunity for such hearing, appeal, or other administrative proceeding to which the Subrecipient is entitled under any statute or regulation applicable to the action involved as per 2 CFR 200.341. Such appeal shall be governed by, and conducted in accordance with, the appeal processes and procedures set forth in section 4 of this Exhibit.

- G. Effects of Suspension and Termination. Subrecipient costs resulting from obligations incurred by the Subrecipient or any of the Subrecipient's Contractors during a suspension or after termination of an Agreement are not allowable unless otherwise authorized by the Department in written notice or as allowable in 2 CFR 200.342. The enforcement remedies identified in this Section do not preclude a Subrecipient or any of the Subrecipient's Contractors from being subject to 2 CFR Part 2424. CDBG-DR and/or CDBG-MIT funds may not be provided to excluded or disqualified persons pursuant to 24 CFR 570.489(l) and 2 CFR 200.338-200.339.
- H. The remedies available to the Department under this Agreement are cumulative and not exclusive.

Termination for Noncompliance: Grant Funds provided by this Agreement may be terminated in whole or in part as per federal regulation at 2 CFR 200.339 by HUD or by the Department if Subrecipient fails to comply with the terms and conditions of both this

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Agreement and of the federal award. All terminations shall include written notification setting forth the reason(s) for such termination, the effective date, and the portion to be terminated in the case of partial terminations and will follow termination notification requirements identified in 2 CFR 200.340.

- A. Termination Without Cause: This Agreement may be terminated by the Department in whole or in part at any time without cause only with the consent of the Subrecipient. In the case of a termination of the whole agreement, the parties shall agree upon termination conditions, including the effective date. In the case of a partial termination, the parties shall agree upon termination conditions, including the portion to be terminated and the effective date.
- B. Termination with Cause: This Agreement may be terminated by the Department in whole or in part at any time for cause by giving at least 14 days' prior written notice to the Subrecipient. Termination with cause includes termination prior to the end of the period of performance for failure to comply with the terms and conditions of this Agreement, and pursuant to 2 CFR 200.339(b), such termination shall be reported to the appropriate federal program integrity and performance system accessible through the System for Award Management. Termination with cause also includes, without limitation, a failure by Subrecipient to comply with the Approved Project Schedule, Approved Project Performance Milestones, Reporting Requirements, and/or Special Conditions of any Notice to Proceed issued for an Approved Project to use CDBG-DR and/or CDBG-MIT funds.

Appeals Process for Finding of Noncompliance: In taking an action to address noncompliance, the Department will provide the Subrecipient an opportunity for a such hearing, appeal, or other administrative proceeding to which the Subrecipient is entitled under any statute or regulation applicable to the action involved as per 2 CFR 200.341 and/or the Department's Monitoring Plan and associated exhibit/exhibits. Contact the monitoring representative for an updated appeal exhibit version.
https://www.hcd.ca.gov/community-development/disaster-recovery-programs/cdbg-dr/cdbg-dr-2017/docs/DR_MAC_Monitoring_Plan_Final.pdf

5. Severability

- A. If any provision of this Agreement, or an underlying obligation, is held invalid by a court of competent jurisdiction, such invalidity, at the sole discretion of the Department, shall not affect any other provisions of this Agreement and the remainder of this Agreement shall remain in full force and effect. Therefore, the provisions of this Agreement are, and shall be, deemed severable.
- B. The Subrecipient shall notify the Department immediately of any claim or action undertaken by or against it which affects or may affect this Agreement or the Department and shall take such action with respect to the claim or action as is consistent with the terms of this Agreement and the interests of the Department.

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6. Waivers

No waiver or any breach of this Agreement shall be held to be a waiver of any prior or subsequent breach. The failure of the Department to enforce, at any time, the provisions of this Agreement or to require, at any time, performance by the Subrecipient of these provisions shall in no way be construed to be a waiver of such provisions nor to affect the validity of this Agreement or the right of the Department to enforce these provisions. All waivers by the Department must be in writing in order to be valid.

7. Uniform Administrative Requirements

The Subrecipient, its agencies or instrumentalities, shall comply with the policies, guidelines, and Uniform Administrative Requirements of 2 CFR Part 200, et seq., as applicable, as they relate to the cost principles, audit requirements, acceptance and use of federal funds under this part.

- A. Single Audit Compliance: Funds will not be disbursed to any Subrecipient identified by the State Controller's Office (SCO) as non-compliant with the Federal Single Audit Act, as described in the Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards at 2 CFR 200 Sub-Part F. No funds may be disbursed until compliance with the Uniform Guidance is demonstrated to the satisfaction of the Department.
- B. Accounting Standards: The Subrecipient agrees to comply with, and administer the activity in conformance with, 2 CFR Part 200.300, et seq., and agrees to adhere to the accounting principles and procedures required therein, utilize adequate internal controls and maintain necessary source documentation for all costs incurred.
- C. Suspension and Debarment: By executing this Agreement, Subrecipient verifies and affirms that it has not been suspended or debarred from participating in or receiving federal government contracts, subcontracts, loans, grants, or other assistance programs. Subrecipient further agrees to verify that its Contractors have not been suspended or debarred from participating or receiving federal government contracts, subcontracts, loans, grants, or other assistance programs.

8. Compliance with State and Federal Laws and Regulations

- A. The Subrecipient, its agencies or instrumentalities, and Contractors shall comply with all local, state, and federal laws, statutes, and regulations, as well as policies and procedures established by the Department for the administration of the DR-Infrastructure and MIT-RIP programs, as the same may be amended from time to time.

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- B. The Subrecipient shall comply with the requirements of 24 CFR 570, the HUD regulations concerning Community Development Block Grants, 2 CFR 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards, Final Guidance, adopted by HUD at 2 CFR 2400, and any and all federal regulations, guidelines, rules, and policies issued pursuant to the foregoing. The Subrecipient further agrees to utilize funds available under this Agreement to supplement rather than supplant funds otherwise available.
- C. The Subrecipient must maintain compliance with the Housing Element requirements detailed in Health and Safety Code (HSC) sections 50829 and 50830 for the duration of this Agreement, if applicable.

9. **Authority to Impose Additional Special Conditions**

In accordance with 2 CFR 200.207, Department reserves the right and authority to impose additional specific conditions within any NTP issued under this Agreement under any of the following circumstances:

- A. When, in the Department's sole discretion, the Department finds that Subrecipient has a history of failure to comply with the general or specific terms and conditions applicable to the CDBG-DR and/or CDBG-MIT funds allocated under this Agreement or to other awards of Federally-funded grant or loan assistance passed through the Department.
- B. When Subrecipient fails to meet expected performance goals under this Agreement.
- C. When Subrecipient poses an increased risk for noncompliance based on factors including, but not limited to, financial stability, quality of management systems, history of performance under Federal awards, history of timeliness under Federal awards, history of conformance with terms and conditions of previous federal awards, and reports and findings from audits.
- D. When, in the Department's sole discretion, such conditions are necessary to ensure timely and compliant performance under the Department's Federal award from HUD.

Such specific conditions, or special conditions, may include but are not limited to, withholding of authority to proceed to the next phase of an otherwise eligible Project, requiring additional detailed financial reports, requiring additional project monitoring, requiring the Subrecipient to obtain technical or management assistance, establishing additional prior approvals, or any other condition the Department deems reasonable and

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necessary to safeguard Federal funds or the Department's interests.

If approved, such additional specific award conditions, or special conditions, shall be included in the NTP for Approved Projects and shall include the nature of the additional requirements, the reason why the additional requirements are being imposed, the nature of the action needed to remove the additional requirement (if applicable), the time allowed for completion of the actions (if applicable), and the method for requesting reconsideration of the additional requirements imposed.

10. Equal Opportunity Requirements and Responsibilities

The obligations undertaken by Subrecipient include, but are not limited to, the obligation to comply with all federal laws and regulations described in Subpart K of 24 CFR Part 570 and specifically with each of the following, among other things, as the same may be amended from time to time:

- A. **Title VI of the Civil Rights Act of 1964:** This act provides that no person shall be excluded from participation, denied program benefits, or subject to discrimination based on race, color, and/or national origin under any program or activity receiving federal financial assistance.
- B. **Title VII of the Civil Rights Act of 1968 (The Fair Housing Act):** This act prohibits discrimination in housing on the basis of race, color, religion, sex and/or national origin. This law also requires actions which affirmatively promote fair housing.
- C. **Restoration Act of 1987:** This act restores the broad scope of coverage and clarifies the application of the Civil Rights Act of 1964. It also specifies that an institution which receives federal financial assistance is prohibited from discriminating on the basis of race, color, national origin, religion, sex, disability or age in a program or activity which does not directly benefit from such assistance.
- D. **Section 109 of Title 1 of the Housing and Community Development Act of 1974 [42 U.S.C. 5309]:** This section of Title 1 provides that no person shall be excluded from participation (including employment), denied program benefits, or subject to discrimination on the basis of race, color, national origin, or sex under any program or activity funded in whole or in part under Title 1 of the Act.
- E. **The Fair Housing Amendment Act of 1988:** This act amended the original Fair Housing Act to provide for the protection of families with children and people with disabilities, strengthen punishment for acts of housing discrimination, expand the Justice Department jurisdiction to bring suit on behalf of victims in

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- federal district courts, and create an exemption to the provisions barring discrimination on the basis of familial status for those housing developments that qualify as housing for persons age 55 or older.
- F. **The Age Discrimination Act of 1975:** This act provides that no person shall be excluded from participation, denied program benefits, or subject to discrimination on the basis of age under any program or activity receiving federal funding assistance. Effective January 1987, the age cap of 70 was deleted from the laws. Federal law preempts any State law currently in effect on the same topic.
- G. **Section 504 of the Rehabilitation Act of 1973:** It is unlawful to discriminate based on disability in federally assisted programs. This Section provides that no otherwise qualified individual shall, solely by reason of his or her disability, be excluded from participation (including employment), denied program benefits, or subjected to discrimination under any program or activity receiving federal funding assistance. Section 504 also contains design and construction accessibility provisions for multi-family dwellings developed or substantially rehabilitated for first occupancy on or after March 13, 1991.
- H. **The Americans with Disabilities Act of 1990 (ADA):** This act modifies and expands the Rehabilitation Act of 1973 to prohibit discrimination against "a qualified individual with a disability" in employment and public accommodations. The ADA requires that an individual with a physical or mental impairment who is otherwise qualified to perform the essential functions of a job, with or without reasonable accommodation, be afforded equal employment opportunity in all phases of employment.
- I. **Executive Order 11063:** This executive order provides that no person shall be discriminated against on the basis of race, color, religion, sex, or national origin in housing and related facilities provided with federal assistance and lending practices with respect to residential property when such practices are connected with loans insured or guaranteed by the federal government.
- J. **Executive Order 12259:** This executive order provides that the administration of all federal programs and activities relating to housing and urban development be carried out in a manner to further housing opportunities throughout the United States.
- K. **The Equal Employment Opportunity Act:** This act empowers the Equal Employment Opportunity Commission (EEOC) to bring civil action in federal court against private sector employers after the EEOC has investigated the charge, found "probable cause" of discrimination, and failed to obtain a conciliation agreement acceptable to the EEOC. It also brings federal, state, and local

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governments under the Civil Rights Act of 1964.

- L. **The Uniform Guidelines on Employee Selection Procedures adopted by the Equal Employment Opportunity Commission in 1978:** This manual applies to employee selection procedures in the areas of hiring, retention, promotion, transfer, demotion, dismissal and referral. It is designed to assist employers, labor organizations, employment agencies, licensing and certification boards in complying with the requirements of federal laws prohibiting discriminatory employment.
- M. **The Vietnam Era Veterans' Readjustment Act of 1974 (revised Jobs for Veterans Act of 2002):** This act was passed to ensure equal employment opportunity for qualified disabled veterans and veterans of the Vietnam War. Affirmative action is required in the hiring and promotion of veterans.
- N. **Executive Order 11246:** This executive order applies to all federally assisted construction contracts and subcontracts. It provides that no person shall be discriminated against on the basis of race.

11. **Relocation, Displacement, and Acquisition**

The Subrecipient shall comply with the provisions of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended, and regulations adopted to implement the Act in 24 CFR Part 42, 49 CFR Part 24, and Section 104(d) of the Housing and Community Development Act of 1974 as they apply to the performance of this Agreement.

12. **The Training, Employment, and Contracting Opportunities for Business and Lower Income Persons Assurance of Compliance (Section 3):**

The Subrecipient and the Subrecipient's Contractors shall comply with Section 3 of the Housing and Urban Development Act of 1968 (12 U.S.C. 1701u), and implementing regulation at 24 CFR, Part 75. The responsibilities outlined in 24 CFR Part 75.19 include:

- A. Implementing procedures designed to notify Section 3 workers about training and employment opportunities generated by Section 3 covered assistance and Section 3 business concerns about contracting opportunities generated by Section 3 covered assistance.
- B. Notifying potential Contractors for Section 3 covered projects of the requirements of Part 75, Subpart C and incorporating the Section 3 clause set forth below in all solicitations and contracts in excess of \$100,000 as required at 24 CFR 75.27.

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Section 3 Clause

The work to be performed under this contract is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u (Section 3). The purpose of Section 3 is to ensure that employment and other economic opportunities generated by HUD assistance or HUD-assisted projects covered by Section 3, shall, to the greatest extent feasible, be directed to low- and very low-income persons, particularly persons who are recipients of HUD assistance for housing.

The parties to this contract agree to comply with HUD's regulations in 24 CFR. Part 75, which implement Section 3. As evidenced by their execution of this contract, the parties to this contract certify that they are under no contractual or other impediment that would prevent them from complying with the Part 75 regulations.

The contractor agrees to send to each labor organization or representative of workers with which the contractor has a collective bargaining agreement or other understanding, if any, a notice advising the labor organization or workers' representative of the contractor's commitments under this Section 3 clause, and will post copies of the notice in conspicuous places at the work site where both employees and applicants for training and employment positions can see the notice. The notice shall describe the Section 3 preference, shall set forth minimum number and job titles subject to hire, availability of apprenticeship and training positions, the qualifications for each; the name and location of the person(s) taking applications for each of the positions; and the anticipated date the work shall begin.

The contractor agrees to include this Section 3 clause in every subcontract subject to compliance with regulations in 24 CFR Part 75 and agrees to take appropriate action, as provided in an applicable provision of the subcontract or in this Section 3 clause, upon a finding that the subcontractor is in violation of the regulations in 24 CFR Part 75. The contractor will not subcontract with any subcontractor where the contractor has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 CFR Part 75.

The contractor acknowledges that subrecipients, contractors, and subcontractors are required to meet the employment, training, and contraction requirements of 24 CFR 75.19, regardless of whether Section 3 language is included in recipient or subrecipient agreements, program regulatory agreements, or contracts.

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The contractor will certify that any vacant employment positions, including training positions, that are filled (1) after the contractor is selected but before the contract is executed, and (2) with persons other than those to whom the regulations of 24 CFR Part 75 require employment opportunities to be directed, were not filled to circumvent the contractor's obligations under 24 CFR Part 75.

Noncompliance with HUD's regulations in 24 CFR Part 75 may result in sanctions, termination of this contract for default, and debarment or suspension from future HUD assisted contracts.

The contractor agrees to submit, and shall require its subcontractors to submit to them, annual reports detailing the total number of labor hours worked on the Section 3 Project, the total number of labor hours worked by Section 3 Workers, and the total number of hours worked by Targeted Section 3 Workers, and any affirmative efforts made during the quarter to direct hiring efforts to low- and very low-income persons, particularly persons who are Section 3 workers and Targeted Section 3 workers.

- C. Facilitating the training and employment of Section 3 workers and the award of contracts to Section 3 business concerns by undertaking activities such as described in Section 75.25(b), as appropriate, to reach the goals set forth in Section 75.23 and in Federal Register Vol. 85, No. 189, page 60909, until superseded by HUD in a subsequent publication. As of September 29, 2020, the minimum Section 3 benchmark is twenty-five (25) percent or more of the total number of labor hours worked by all workers on a Section 3 project are Section 3 workers; and five (5) percent or more of the total number of labor hours worked by all workers on a Section 3 project are Targeted Section 3 workers.
- D. Documenting actions taken to comply with the foregoing requirements, the results of those actions taken and impediments, if any

13. **Environmental Compliance**

- A. The Subrecipient shall comply with the California Environmental Quality Act (CEQA) requirements as they apply to this Project(s).
- B. The Subrecipient shall comply with the Federal Water Pollution Control Act, as amended, 33 U.S.C., 1251, *et seq.*, as amended, 1318 relating to inspection, monitoring, entry, reports, and information, as well as other requirements specified in said Section 114 and Section 308, and all regulations and guidelines issued thereunder.

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- C. The Subrecipient shall comply with the requirements of the Clean Air Act, 42 U.S.C. 1857, et seq., as amended.
- D. The Subrecipient shall comply with Environmental Protection Agency (EPA) regulation pursuant to 40 CFR Part 50, as amended.
- E. The Subrecipient shall comply with HUD regulation pursuant to 24 CFR Part 58
- F. The Subrecipient shall comply with the requirements of the Flood Disaster Protection Act of 1973 (42 U.S.C. 4001). The Subrecipient shall assure that for activities located in an area identified by the Federal Emergency Management Agency (FEMA) as having special flood hazards, that flood insurance under the National Flood Insurance Program is obtained and maintained as a condition of financial assistance for acquisition or construction purposes (including rehabilitation).
- G. If applicable, the Subrecipient shall comply with the requirements of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and Section 401(b) of the Lead-Based Paint Poisoning Prevention Act of 1971. The Subrecipient agrees that any construction or rehabilitation of residential structures with assistance provided under this Agreement shall be subject to HUD Lead-Based Paint Regulations at 24 CFR 570.608, and 24 CFR Part 35, Subpart B. Such regulations pertain to all CDBG-assisted housing and require that all owners, prospective owners, and tenants of properties constructed prior to 1978 be properly notified that such properties may include lead-based paint. Such notification shall point out the hazards of lead-based paint and explain the symptoms, treatment and precautions that should be taken when dealing with lead-based paint poisoning and the advisability and availability of blood lead level screening for children under seven. The notice should also point out that if lead-based paint is found on the property, abatement measures may be required.
- H. The Subrecipient shall comply with the Historic Preservation requirements set forth in the National Historic Preservation Act of 1966, as amended (16 U.S.C. 470), the Archaeological and Historical Preservation Act of 1974 (Public Law 93-291), and the procedures set forth in 36 CFR Part 800, Advisory Council on Historic Preservation Procedures for Protection of Historic Properties, insofar as they apply to the performance of this agreement. The Subrecipient shall also comply with Executive Order 11593 on the protection and enhancement of the cultural environment. In general, this requires concurrence from the State Historic Preservation Officer for all rehabilitation and demolition of historic properties that are fifty years old or older or that are included on a federal, state, or local historic property list.
- I. This Agreement does not constitute a commitment of funds or site approval, and the commitment of funds or approval may occur only upon satisfactory

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completion of environmental review and receipt by the Subrecipient of an approval of the request for release of funds and certification from the Department under 24 CFR Part 50, 24 CFR Part 58, and 40 CFR 1500 - 1508. The provision of any funds to the project is conditioned on the Subrecipient's determination to proceed with, modify or cancel the project based on the results of the environmental review. The Subrecipient will not receive an NTP until they have successfully documented compliance with the applicable NEPA requirements, including public noticing and publishing.

14. **Procurement**

The Subrecipient shall comply with the procurement provisions in 2 CFR Part 200.318 – 200.326, Procurement Standards as well as all other Administrative Requirements for Subrecipient and Cooperative Agreements to State, local and federally recognized Indian tribal governments as set forth in 2 CFR 200, et seq., as applicable. All procurements must be conducted in a fair, open, and competitive manner in compliance with both the spirit and the letter of applicable federal and state procurement laws and the DR-Infrastructure and Mitigation Policies and Procedures.

15. **Procurement of Recovered Materials**

In accordance with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act, the Contractor shall procure items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR Part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition. The Contractor shall procure items designated in the EPA guidelines that contain the highest percentage of recovered materials practicable unless the Contractor determines that such items: (1) are not reasonably available in a reasonable period of time; (2) fail to meet reasonable performance standards, which shall be determined on the basis of the guidelines of the National Institute of Standards and Technology, if applicable to the item; or (3) are only available at an unreasonable price.

This clause shall apply to items purchased under this Agreement where: (1) the Contractor purchases in excess of \$10,000 of the item under this contract; or (2) during the preceding Federal fiscal year, the Contractor: (i) purchased any amount of the items for use under a contract that was funded with Federal appropriations and was with a Federal agency or a State agency or agency of a political subdivision of a State; and (ii) purchased a total of in excess of \$10,000 of the item both under and outside that contract.

16. **Construction Standards**

The Subrecipient shall ensure that all Approved Projects comply with the following requirements:

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The Architectural Barriers Act of 1968 (42 U.S.C. 4151-4157)

The Architectural Barriers Act (ABA) stands as the first measure by Congress to ensure access to the built environment for people with disabilities. The law requires that buildings or facilities that were designed, built, or altered with federal dollars or leased by federal agencies after August 12, 1968 be accessible.

California Green Buildings Standards Code (CALGreen) (Title 24, Part 11 of the California Code of Regulations)

All new construction of residential buildings or reconstruction of substantially damaged buildings must incorporate California Green Buildings Standards Code (CALGreen).

Sustainability Requirements

All rehabilitation, reconstruction, and new construction must be designed to incorporate principles of sustainability, including water and energy efficiency, resilience, and mitigating the impact of future disasters. Wherever feasible, the Subrecipient, Subrecipient's and Contractors must follow best practices, such as those provided by the U.S. Department of Energy.

National Floodplain Elevation Standards

Subrecipients and Contractors must comply with the national floodplain elevation standards for new construction, repair of substantially damaged structures, or substantial improvements to public facilities in flood hazard areas. All structures designed for public facilities use within a special flood hazard area (SFHA), or one percent annual chance, floodplain will be elevated with the lowest floor at least two feet above the base flood elevation level and comply with the requirements of 83 FR 5850 and 83 FR 5861.

Wildland-Urban Interface Building Codes (WUI Codes)

All Approved Projects under this program that are located in a CAL FIRE high fire zone must comply with applicable WUI codes, found in Title 24, Chapter 7a of the California Building Code, which offer specific material, design and construction standards to maximize ignition resistance.

17. Federal Labor Standards Provisions

The Subrecipient and the Developer shall at all times comply, and cause all Project

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contractors to comply, with applicable federal labor standards, including without limitation, the following:

- A. Davis-Bacon Act (40 U.S.C. §§ 3141-3148), which requires that workers receive no less than the prevailing wages being paid for similar work in their locality. Prevailing wages are computed by the Federal Department of Labor and are issued in the form of federal wage decisions for each classification of work. The law applies to most construction, alteration, or repair contracts over \$2,000.
- B. "Anti-Kickback Act of 1986" (41 U.S.C. §§ 51-58), which prohibits attempted as well as completed "kickbacks," which include any money, fees, commission, credit, gift, gratuity, thing of value, or compensation of any kind. The act also provides that the inclusion of kickback amounts in contract prices is prohibited conduct in itself. This act requires that the purpose of the kickback was for improperly obtaining or rewarding favorable treatment. It is intended to embrace the full range of government contracting.
- C. Contract Work Hours and Safety Standards Act - CWHSSA (40 U.S.C. § 3702), which requires that workers receive "overtime" compensation at a rate of one and one-half (1-1/2) times their regular hourly wage after they have worked forty (40) hours in one week.
- D. Title 29, Code of Federal Regulations CFR, Subtitle A, Parts 1, 3 and 5, which are the regulations and procedures issued by the Secretary of Labor for the administration and enforcement of the Davis-Bacon Act, as amended.

The Subrecipient shall maintain documentation that demonstrates compliance with hour and wage requirements of this part. Such documentation shall be made available to the Department for review upon request. Subrecipient shall be responsible for monitoring all Contractors, and subcontractors, as applicable, for compliance with these provisions.

18. State Prevailing Wages

- A. The Subrecipient shall ensure that the requirements of California Labor Code (LC), Chapter 1, commencing with Section 1720, Part 7 [LC Section 1720-1743] pertaining to the payment of prevailing wages and administered by the California Department of Industrial Relations are met.
- B. For the purposes of this requirement "construction work" includes, but is not limited to rehabilitation, alteration, demolition, installation, or repair done under contract and paid for, in whole or in part, through this Agreement. All construction work shall be done through the use of a written contract with a properly licensed building contractor incorporating these requirements (the "Construction Contract"). Where the Construction Contract will be between the Subrecipient

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and a licensed building contractor, the Subrecipient shall serve as the "awarding body" as that term is defined in the LC. Where the Subrecipient will provide funds to a third party that will enter into the Construction Contract with a licensed building contractor, the third party shall serve as the "awarding body." Prior to any disbursement of funds, including but not limited to release of any final retention payment, the Department may require a certification from the awarding body that prevailing wages have been or will be paid.

- C. The applicable wage rate determination on construction work will be the more restrictive of the rate prescribed in LC Section 1770-1784 or the Davis-Bacon Wage Determination.

19. Agreements with Contractors

- A. The Subrecipient shall not enter into any agreement, written or oral, with any Contractor or other party without the prior determination that the Contractor or other party is eligible to receive federal funds and is not listed on the Federal Consolidated List of Debarred, Suspended, and Ineligible Contractors or similar Federal or state listing of debarred or ineligible parties.

The terms "other party" is defined as public or private nonprofit agencies or organizations and certain (limited) private for-profit entities who receive Grant Funds from a Subrecipient to undertake Approved Projects.

- B. An agreement between the Subrecipient and any Contractor or other party shall require:
- 1) Compliance with all State and federal requirements described in this Agreement including without limitation those that pertain to labor standards, nondiscrimination, Americans with Disabilities Act, Equal Employment Opportunity and Drug Free Workplace, and prevailing wages. In addition to these requirements, all contractors and subcontractors shall comply with the applicable provisions of the California Labor Code.
 - 2) Maintenance of at least the minimum State required Workers' Compensation Insurance for those employees who will perform the Approved Project activities.
 - 3) Maintenance, as required by law, of unemployment insurance, disability insurance and liability insurance, which is reasonable to compensate any person, firm, or corporation, who may be injured or damaged by the contractor, or any subcontractor in performing the Approved Project activities.
 - 4) Compliance with the applicable Equal Opportunity Requirements

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described in Exhibit D, Section 10 of this Agreement.

C. Contractors shall:

- 1) Perform the Approved Project activities in accordance with federal, state, and local regulations, as are applicable.
- 2) Provide security to assure completion of the Approved Project(s) by furnishing the borrower and construction lenders with proof of sufficient insurance and performance and payment bonds, or other security approved in advance in writing by the Department, as determined by the particulars of each individual Project will be required.

D. Contractors and Subcontractors: Drug-Free Workplace Act of 1988

- 1) Publish and give a policy statement to all covered employees informing them that the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance is prohibited in the covered workplace and specifying the actions that will be taken against employees who violate the policy.
- 2) Establish a drug-free awareness program to make employees aware of a) the dangers of drug abuse in the workplace; b) the policy of maintaining a drug-free workplace; c) any available drug counseling, rehabilitation, and employee assistance programs; and d) the penalties that may be imposed upon employees for drug abuse violations.
- 3) Notify employees that as a condition of employment on a federal contract or grant, the employee must a) abide by the terms of the policy statement; and b) notify the employer, within 5 calendar days, if he or she is convicted of a criminal drug violation in the workplace.
- 4) Notify the contracting or granting agency within 10 days after receiving notice that a covered employee has been convicted of a criminal drug violation in the workplace.
- 5) Impose a penalty on or require satisfactory participation in a drug abuse assistance or rehabilitation program by any employee who is convicted of a reportable workplace drug conviction.
- 6) Make an ongoing, good faith effort to maintain a drug-free workplace by meeting the requirements of the act.

20. Rights to Inventions Made Under a Contract or Agreement

If a Federal award meets the definition of “funding agreement” under 37 CFR 401.2(a)

17-MITRIP-17002

NOI Date: 11/02/2020

Approved Date: 4/13/2021

Prep Date: 09/24/2021

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and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of recipient or subrecipient must comply with requirements of 37 CFR Part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulation issued by the awarding agency.

21. **Special Conditions Pertaining to Hazards, Safety Standards and Accident Prevention**

- A. **Use of Explosives:** When the use of explosives is necessary for the prosecution of the work, the Contractor shall observe all local, state and federal laws in purchasing and handling explosives and comply with all insurance requirements set forth in section 29.B.4 below. The Contractor shall take all necessary precaution to protect completed work, neighboring property, water lines, or other underground structures. Where there is danger to structures or property from blasting, the charges shall be reduced, and the material shall be covered with suitable timber, steel or rope mats.

The Contractor shall notify all owners of public utility property of intention to use explosives at least 8 hours before blasting is done close to such property. Any supervision or direction of use of explosives by the engineer does not in any way reduce the responsibility of the Contractor or his Surety for damages that may be caused by such use.

- B. **Danger Signals and Safety Devices:** The Contractor shall make all necessary precautions to guard against damages to property and injury to persons. The Contractor shall put up and maintain in good condition, sufficient red or warning lights at night, suitable barricades and other devices necessary to protect the public.
- C. **Protection of Lives and Health:** The Contractor shall exercise proper precaution at all times for the protection of persons and property and shall be responsible for all damages to persons or property, either on or off the worksite, which occur as a result of prosecution of the work. The safety provisions of applicable laws and building and construction codes, in addition to specific safety and health regulations described by Chapter XIII, Bureau of Labor Standards, Department of Labor, Part 1518, Safety and Health Regulations for Construction, as outlined in the Federal Register, Volume 36, No. 75, Saturday, April 17, 1971, Title 29 - LABOR, shall be observed and the Contractor shall take or cause to be taken, such additional safety and health measures as the Developer may determine to be reasonably necessary.

22. **Prohibition Against Payments of Bonus or Commission**

The assistance provided under this Agreement shall not be used in the payment of any

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bonus or commission for the purpose of:

- A. Obtaining the Department's approval of the Application for such assistance; or,
- B. Any other approval or concurrence of the Department required under this Agreement, Title I of the Housing and Community Development Act of 1974, or the State regulations with respect thereto; provided, however, that reasonable fees for bona fide technical, consultant, managerial or other such services, other than actual solicitation, are not hereby prohibited if otherwise eligible as program costs.

23. Reporting Requirements

- A. Subrecipient must timely submit the reports prescribed below. The Department reserves the right to request additional detail and support for any report made. Reports must be made according to the dates identified, in the formats provided by the Department, and via the Department's Grants Network unless otherwise specified at the discretion of the Department. The Subrecipient's performance under this Agreement will be assessed based in part on whether it has submitted the reports on a timely basis.
 - 1) Monthly Activity Report: Subrecipient must submit a Monthly Activity Report that addresses the following, at a minimum: (1) a description of the current status of the Subrecipient Work and Project Work, (2) a description of activities to be undertaken in the next reporting period; (3) a description of problems or delays encountered in Subrecipient Work and Project Work and course of action taken to address them; (4) a description of actions taken to achieve Subrecipient Work and Project Work expenditure deadlines; and (5) a summary of Subrecipient Work and Project Work fiscal status, including award amount, funds drawn, and remaining balance. Unless otherwise waived in writing by the Department, Monthly Activity Reports must begin on the 10th calendar day of the second month following execution of this Agreement and must continue through the receipt and approval by the Department of the Project Completion Report, detailed below.
 - 2) Monthly Program Income Report: Program Income, if identified as a funding source for any Approved Project, must be included in the Project budget and must be substantially expended prior to drawing Grant Funds. During the term of this Agreement, if Program Income is generated, the Subrecipient must submit a Monthly Program Income Report certifying the amount of Program Income generated, retained and expended. Program Income remaining at the end of each quarter and at the expiration of this Agreement in excess of \$35,000.00 must be remitted to the Department.
 - 3) Semi-Annual Labor Standards Report: During the term of construction for

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each Approved Project, each April 1st and October 1st, and at the completion of the Project, the Subrecipient must submit the Labor Standards Cover Memo, the HUD Form 4710 and the Davis Bacon Labor Standards Report 5.7 (if applicable). These forms are located on the Department's website and are also available upon request.

- 4) Project Completion Report: At the completion of construction and once an Approved Project is placed in service, the Subrecipient must submit a Project Completion Report that includes that the project is completed and performing as designed.

24. Fiscal Controls

The Subrecipient shall be responsible for the internal control and monitoring of fiscal and programmatic/operational goals and procedures. The Subrecipient shall establish and maintain such fiscal controls and fund accounting procedures as required by Federal regulations, or as may be deemed necessary by the Department to ensure the proper disbursement of, and accounting for, funds paid to the Subrecipient under this Agreement.

- A. **Deposit of Funds:** Subrecipient shall maintain separate accounts within established bookkeeping systems for the deposit of CDBG-DR and/or CDBG-MIT funds and Program Income. Deposits in minority banks are encouraged.
- B. **Fiscal Liability:** Subrecipients shall be liable for all amounts which are determined to be due by the Department, including but not limited to, disallowed or ineligible costs which are the result of Subrecipient's or its Contractor's conduct under this Agreement. Subrecipients shall also be liable for the repayment of any and all amounts it has received under this Agreement and which HUD is seeking reimbursement for from the Department. Subrecipient's obligation to repay the foregoing amounts to the Department shall survive indefinitely the expiration or earlier termination of this Agreement. Subrecipient shall be notified in writing and shall be permitted to respond regarding any controversy or proceeding between the Department and HUD arising from this Agreement.
- C. **Fiscal Records:** All financial transactions must be supported by complete and verifiable source documents. Records shall provide a clear audit trail and shall be maintained as specified in Exhibit D, Section 27 of this Agreement.
- D. **Program Income:** Any and all Program Income received during the administration of this Agreement must be receipted and maintained in a separate Program Income account. Program Income funds may not be comingled with CDBG-DR

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and/or CDBG-MIT grant funds in a single account.

25. Monitoring Requirements

The Department monitors its Subrecipients based upon an assessment of risk posed by the Subrecipient and according to specific monitoring criteria per 2 CFR 200.331. During the term of this Agreement, the Department shall perform program and/or fiscal monitoring of the Subrecipient and Approved Projects to ensure compliance with federal and state requirements and timely project completion. The Subrecipient shall be required to resolve any monitoring findings to the Department's satisfaction by the deadlines set by the Department. In the event Subrecipient disagrees with a finding and/or any accompanying corrective actions or sanction(s) that are associated with such finding, Subrecipient shall follow an appeals process provided by the Department and consistent with Section 4 of Exhibit D of this Agreement..

Subrecipient shall ensure their Contractors and Approved Projects are in compliance with CDBG-DR and/or CDBG-MIT requirements, the DR-Infrastructure and MIT-RIP Policies and Procedures, and the terms and conditions of this Agreement, and in connection therewith, shall perform regular, ongoing monitoring of the Contractors and Approved Project(s) for the term of this Agreement. Subrecipient shall ensure their Contractors resolve any monitoring findings to the Subrecipient's satisfaction by the deadlines set by the Subrecipient. Subrecipient shall report any monitoring findings to the Department, as well as the status of those findings until they are resolved by the Contractors.

26. Inspections of Project Activities

The Department reserves the right to inspect any Approved Project activities performed hereunder to verify that the Approved Project activities are being and/or have been performed in accordance with the applicable federal, state and/or local requirements and this Agreement.

- A. The Subrecipient shall inspect any Approved Project activity performed by contractors and subcontractors hereunder to ensure that the Approved Project activities are being and have been performed in accordance with the applicable federal, State and/or local requirements and this Agreement.
- B. The Subrecipient shall require that all Approved Project activities found by such inspections that do not conform to the applicable requirements be promptly corrected, and shall withhold payment to its Contractor or subcontractor, respectively, until it is so corrected.
- C. Access by the Subrecipient, the federal grantor agency, the State, the Comptroller General of the United States, or any of their duly authorized

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representatives to any books, documents, papers, and records of the Subrecipient, Contractor, or subcontractor which are directly pertinent to that specific contract for the purpose of monitoring, making audit, examination, excerpts, and transcriptions pursuant to 24 CFR 85.36(i)(10) shall be permitted. Subrecipient shall include in its agreements with Contractors, as applicable, provisions requiring such parties to provide access to its records for the purposes specified above.

27. Audit/Retention and Inspection of Records

- A. The Subrecipient must have intact, auditable fiscal and program records at all times. If the Subrecipient is found to have missing audit reports from the California State Controller's Office (SCO) during the term of this Agreement, the Subrecipient will be required to submit a plan to the State for submitting the audit to the SCO. If the deadlines are not met, the Department may initiate remedies for noncompliance in accordance with Section 4 herein. The Subrecipient's audit completion plan is subject to prior review and approval by the Department.
- B. The Subrecipient agrees that the Department or its designee will have the right to review, obtain, and copy all records pertaining to performance of this Agreement. The Subrecipient agrees to provide the Department or its designee with any relevant information requested and shall permit the Department or its designee access to its premises, during normal business hours for the purpose of interviewing employees and inspecting and copying such books, records, accounts, and other material that may be relevant to a matter under investigation for the purpose of determining compliance with California Public Contract Code (PCC) Section 10115 et seq., Government Code (GC) Section 8546.7 and 2 CCR 1896.60 et seq., and other requirements of this Agreement. The Subrecipient further agrees to maintain such records for a minimum period of five (5) years after the Department notifies Subrecipient that the HUD/the Department contract has been closed according to the record retention requirements at 2 CFR 200.333. The Subrecipient shall comply with the caveats and be aware of the penalties for violations of fraud and for obstruction of investigation as set forth in Public Contract Code section 10115.10.
- C. An expenditure which is not authorized by this Agreement or which cannot be adequately documented shall be disallowed and must be reimbursed to the Department or its designee by the Subrecipient.
- D. Absent fraud or material error on the part of the Department, the determination by the Department of the allowability or validity of any expenditure shall be final and conclusive.
- E. For the purposes of annual audits, Subrecipient shall comply with 2 CFR Part 200

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Subpart F for the State CDBG Program. Pursuant to 2 CFR Part 200 Subpart F, the Subrecipient shall perform an annual audit at the close of each fiscal year in which this Agreement is in effect. The costs of the CDBG-DR and/or CDBG-MIT related portion of the audit may be charged to the program in accordance with Public Law 98502, 2 CFR Part 200 Subpart F, and Title 25 CCR Section 7122.

- 1) The audit shall be performed by a qualified State, department, local or independent auditor. The agreement/contract for audit shall include a clause which permits access by the Department to the independent auditor's working papers.
 - 2) If there are audit findings, the Subrecipient must submit a detailed response to the Department for each audit finding. The Department will review the response and, if it agrees with the response, the audit process ends, and the Department will notify the Subrecipient in writing. If the Department is not in agreement, the Subrecipient will be contacted in writing and informed what corrective actions must be taken. This action may include the repayment of disallowed costs or other remediation.
 - 3) The Department shall not approve reimbursement for any expenditures for the audit, prior to receiving an acceptable audit report.
 - 4) If so, directed by the Department upon termination of this Agreement, the Subrecipient shall cause all records, accounts, documentation and all other materials relevant to the grant activity(ies) to be delivered to the Department as depository.
- F. Notwithstanding the foregoing, the Department will not reimburse the Subrecipient for any audit cost incurred after the expenditure deadline of this Agreement.

28. **Signs**

If the Subrecipient places signs stating that the Approved Project is funded with private or public dollars and the Department is also providing financing, it shall indicate in a typeface and size commensurate with the Department's funding portion of the Approved Project that the Department is a source of financing through the CDBG-DR Program and/or CDBG-MIT Program.

29. **Insurance**

Subrecipient, its Contractors shall comply with all requirements outlined in the (A) General Provisions section and (B) Project Insurance Requirements outlined in this section. These requirements are in addition to, and not in lieu of, any other insurance coverages required elsewhere in this Agreement. No payments will be made under this

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Agreement for Subrecipient Work and Project Work until the Subrecipient fully complies with all requirements. No payments will be made under the terms of any Approved Project until the Subrecipient confirms to the Department that all Contractors on the specified Approved Project fully comply with all requirements. The Department reserves the right to waive or adjust required insurance coverages from time to time in its sole discretion.

A. General Provisions Applying to All Policies

- 1) Coverage Term – Subrecipient’s coverage needs to be in force for the complete term of the Agreement. The Contractor’s coverage needs to be in force for the complete affordability period of each Approved Project. The Contractor’s coverage needs to be in force until a certificate of occupancy is issued for each Approved Project, if applicable. No work may be performed by Subrecipient or a Contractor until and unless all insurances required by this Agreement are in full force and effect. If insurance expires during the term of the Agreement, as applicable, a new certificate must be received by the Department at least 30 days prior to the expiration of said insurance. Any new insurance must comply with the original terms of this Agreement.
- 2) Policy Cancellation or Termination & Notice of Non-Renewal – Subrecipient is responsible to notify the Department within 15 business days prior to any actual or proposed cancellation, non-renewal or material change that affects required coverage. No policy may be cancelled upon less than 30 days’ prior written notice from the insurer to the insured and the Department. New certificates of insurance are subject to the approval of the Department and the Subrecipient agrees no Subrecipient Work and Project Work or services will be commenced or performed prior to obtaining such approval. In the event Subrecipient and Contractor fails to keep in effect at all times the specified insurance coverage, the Department may, in addition to any other remedies it may have, terminate this Agreement and/or Approved Project upon the occurrence of such event, subject to the provisions of this Agreement.
- 3) Premiums, Assessments and Deductibles – Subrecipient and Contractors for each Approved Project are responsible for the payment of all premiums, policy assessments, deductibles or self-insured retentions associated with their respective insurance programs.

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- 4) Primary Clause – Any required insurance contained in this Agreement shall be primary, and not excess or contributory, to any other insurance carried by the Department.
- 5) Insurance Carrier Required Rating – All insurance companies must carry an AM Best rating of at least “A–” with a financial category rating of no lower than VII. If the Subrecipient and/or Contractor is self-insured for a portion or all of its insurance, review of financial information including a letter of credit may be required. Acceptance of self-insurance is within the sole discretion of the Department, and the Department reserves the right to require insurance from third-party commercial insurers.
- 6) Endorsements – Any required endorsements requested by the Department must be physically attached to all requested certificates of insurance and not substituted by referring to such coverage on the certificate of insurance.
- 7) Inadequate Insurance – Inadequate or lack of insurance does not negate the Subrecipient’s or Contractor’s obligations under this Agreement or the terms specific to the relevant Approved Project, nor does the availability or limits of any insurance policies required herein in any way limit the liability of Subrecipient or any Contractor, to the Department hereunder, nor does it in any way limit the liability of such parties to the Department in regards to any indemnification obligations of such parties herein.
- 8) Available Coverages/Limits – All coverage and limits available to the Subrecipient or Contractor shall also be available and applicable to the Department.
- 9) Satisfying an SIR - All insurance required by this Agreement and any required by the terms specific to the relevant Approved Project must allow the Department to pay and/or act as the Subrecipient’s or Contractor’s agent in satisfying any self-insured retention (SIR). The choice to pay and/or act as the Subrecipient’s, or Contractor’s agent in satisfying any SIR is at the Department’s discretion.
- 10) Use of Subcontractors - In the case of Contractor’s utilization of subcontractors to complete the contracted scope of work for the relevant Approved Project, Contractor shall include all subcontractors as insureds under Contractor’s insurance or supply evidence of subcontractor’s insurance to the Department equal to policies, coverages, and limits required of Contractor.

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B. Project Insurance Requirements

Subrecipient and/or Contractor shall display evidence, as applicable for the relevant Approved Project, of the following on a certificate of insurance evidencing the following coverages:

- 1) Commercial General Liability – Contractor on an Approved Project shall maintain commercial general liability insurance on an occurrence form with limits not less than \$1,000,000 per occurrence for bodily injury and property damage liability combined with a \$2,000,000 annual policy aggregate or such higher amount as the Department made deem appropriate under the circumstances for each Approved Project. The Department shall identify any higher insurance limits in the NTP for the Approved Project subject to them. The policy shall include coverage for liabilities arising out of premises, operations, independent contractors, products, completed operations, personal & advertising injury, and liability assumed under an insured contract. This insurance shall apply separately to each insured against whom claim is made or suit is brought subject to the Contractor's limit of liability.

The policy must name The State of California, its officers, agents, and employees as additional insureds.

- 2) Automobile Liability – Contractor shall maintain, as applicable, business automobile liability insurance for limits not less than \$1,000,000 combined single limit. Such insurance shall cover liability arising out of a motor vehicle including owned, hired and non-owned motor vehicles. Should the scope of the relevant Approved Project involve transportation of hazardous materials, evidence of an MCS-90 endorsement is required.

The policy must name The State of California, its officers, agents, and employees as additional insured.

Workers Compensation and Employer's Liability – Contractor shall maintain statutory worker's compensation and employer's liability coverage for all its employees who will be engaged in the performance of this Agreement and the relevant Approved Project. In addition, employer's liability limits of \$1,000,000 are required. By signing this Agreement, Subrecipient acknowledges compliance with these regulations. A Waiver of Subrogation or Right to Recover endorsement in favor of the State of California must be attached to certificate.

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- 3) Flood Insurance – Subrecipient shall procure and maintain flood insurance if required under Section 13.E. of this Agreement.
- 4) Additional Coverages – In the event that Subrecipient, Developer, and/or any of its Contractors will be engaging in any Hazardous Activity as part of the Collective Work contemplated by this Agreement, then the party(ies) engaging in any Hazard Activity(ies) shall provide to the Department, prior to commencement of any such activity(ies), such insurance coverages in such forms and in such amounts as the Department may require in its sole discretion. Such coverages are in addition to all other insurance coverages required by this Agreement and shall be imposed on the Developer pursuant to the Development Agreement. For purposes of the provision, the term "Hazardous Activity" includes but is not limited to the following: (a) the removal, storage, and/or transportation of any "hazardous material", as such term is defined under federal, state, or local law, ordinance, regulation, or guideline, (b) the removal, storage, or transportation of lead-based paint or asbestos, (c) blasting, (d) any activity which by its nature is abnormally dangerous, and (d) any "ultrahazardous activity" as defined in California case law. In addition to providing proof of such required coverages, the party(ies) engaging in the Hazardous Activity(ies) shall procure, at its expense prior to the commencement of any work, all required permits, licenses, consents, and approvals that are required for the lawful conduct of such activities, and shall provide adequate written proof thereof to the Department. No Hazardous Activity work may be commenced, or contracted for, prior to the provision of the required insurance coverages and licensure proof to the Department."

30. Indemnification

Subrecipient, at its sole cost and expense, shall indemnify, defend, and hold the Department and its employees, representatives, attorneys, agents, and their respective successors, heirs, and assigns harmless from and against any and all claims, demands, actions, costs, losses, damages, and liabilities, whether direct or indirect, and regardless of their nature or source, which in any way relate to or arise from the actions or inactions of Subrecipient and/or its contractors, subcontractors, employees, owners, agents, and representatives in connection with this Agreement and any agreement or instruments executed in connection herewith. The obligations of Subrecipient under this Section 30 shall survive indefinitely the closeout of Approved Projects and the expiration or earlier termination of this Agreement.

31. Anti-Lobbying Certification

The Subrecipient shall require that the language of this certification be included in all contracts or subcontracts entered into in connection with the Approved Project(s) and

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shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into.

Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and no more than \$100,000 for such failure.

- A. No federal appropriated funds have been paid or will be paid, by or on behalf of it, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal contract, the cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.
- B. If any funds other than federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this federal contract, grant, loan, or cooperative agreement, it will complete and submit Standard Form LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

32. Conflict of Interest

Pursuant to 24 CFR 570.489(h), no member, officer, or employee of the Subrecipient, or its designees or agents, no member of the governing body of the locality in which the program is situated, and no other public official of such locality or localities who exercise or have exercised any functions or responsibilities with respect to CDBG-DR and/or CDBG-MIT activities assisted under this part, or who are in a position to participate in a decision making process or gain inside information with regard to such activities, including members and delegates to the Congress of the United States, may obtain a financial interest or benefit from a CDBG-DR and/or CDBG-MIT assisted activity, or have a financial interest in any contract, subcontract or agreement with respect to a CDBG-DR and/or CDBG-MIT assisted activity or its proceeds, either for themselves or those with whom they have business or immediate family ties, during their tenure, or for 1 year thereafter. The Subrecipient shall incorporate, or cause to be incorporated, in all such contracts or subcontracts a provision prohibiting such interest pursuant to the purposes of this section.

33. Obligations of Subrecipient with Respect to Certain Third-Party Relationships

The Subrecipient shall remain fully obligated under the provisions of this Agreement notwithstanding its designation of any third party or parties for the undertaking of all or any part of the Subrecipient Work and/or Project Work with respect to which assistance

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is being provided under this Agreement to the Subrecipient. The Subrecipient shall comply with all lawful requirements of the Department necessary to ensure that the Subrecipient Work and/or Project Work, with respect to which assistance is being provided under this Agreement to the Subrecipient, is carried out in accordance with the Department's Assurance and Certifications, including those with respect to the assumption of environmental responsibilities of the Department under Section 104(g) of the Housing and Community Development Act of 1974 [42 U.S.C. § 5304(g)].

34. **Energy Policy and Conservation Act**

This Agreement is subject to mandatory standards and policies relating to energy efficiency which are contained in the State Energy Conservation Plan issued in compliance with the federal Energy Policy and Conservation Act (Pub. L. 94-163, 89 Stat. 871).

35. **State Contract Manual Requirements (Section 3.11, Federally Funded Contracts (Rev. 3/03)):**

- A. All contracts, except for State construction projects that are funded in whole or in part by the Federal government, must contain a 30-day cancellation clause and the following provisions:
- 1) It is mutually understood between the parties that this contract may have been written for the mutual benefit of both parties before ascertaining the availability of congressional appropriation of funds to avoid program and fiscal delays that would occur if the contract were executed after that determination was made.
 - 2) This contract is valid and enforceable only if sufficient funds are made available to the State by the United States Government for the purpose of this Program. In addition, this contract is subject to any additional restrictions, limitations, or conditions enacted by the Congress or to any statute enacted by the Congress that may affect the provisions, terms, or funding of this contract in any manner.
 - 3) The parties mutually agree that if the Congress does not appropriate sufficient funds for the program, this contract shall be amended to reflect any reduction in funds.
 - 4) The Department has the option to invalidate the contract under the 30 day cancellation clause or to amend the contract to reflect any reduction in funds.

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- B. Exemptions from provisions A.1 through A.4 above may be granted by the Department of Finance provided that the director of the State agency can certify in writing that Federal funds are available for the term of the contract.
- C. Gov. Code § 8546.4(e) provides that State agencies receiving Federal funds shall be primarily responsible for arranging for Federally required financial and compliance audits, and shall immediately notify the Director of Finance, the State Auditor, and the State Controller when they are required to obtain Federally required financial and compliance audits.

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SPECIAL TERMS AND CONDITIONS

1. Due Diligence Review

Subrecipient has provided the Department with information about the Subrecipient's experience, processes, policies, and procedures related to the development of DR-Infrastructure projects and/or MIT-RIP projects and the management of federal funding in the Subrecipient's jurisdiction. These submissions, in addition to discussions with the Subrecipient, have been used to inform this Agreement and are being materially relied upon by the Department in agreeing to enter into this Agreement.

Should there be substantive changes to the organization, key personnel, methods, policies, or processes of the Subrecipient that impact the implementation of this Agreement, the Subrecipient shall promptly notify the Department of said changes.

Subrecipient agrees to provide documents and information to facilitate the Department's Subrecipient due diligence as required in Federal Register Notice 83 FR 58644. Subrecipient further agrees to comply with the requirements, requests, and results of the Department's due diligence and maintain the capacity to carry out disaster recovery activities in a timely manner at all times during the term hereof.

2. Risk Assessment

During the term of this Agreement, Subrecipient agrees to provide documents and information to facilitate the Department's Subrecipient monitoring risk assessment process. Subrecipient further agrees to comply with the requirements, requests, and results of the Department's risk assessment, including participation in Subrecipient monitoring events.

3. Special Conditions

Pursuant to the Due Diligence and Risk Assessment, Subrecipient agrees to adhere to the following special conditions:

1. All conditions set forth in an executed Notice to Proceed issued and incorporated into this Agreement as Exhibit F by the Department with respect to Approved Projects.
2. Subrecipient will develop and implement procurement policies and procedures that demonstrate conformity with 2 CFR part 200.318-327 and applicable Federal Register Notices, in conjunction with technical assistance from the Department. The Subrecipient will submit the procurement policies and

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- procedures to the Department for a review of sufficiency. Procurement policies and procedures must be determined to be sufficient by the Department in advance of the Department's release of a Notice to Proceed.
3. Subrecipient will develop and implement Uniform Relocation Assistance (URA) policies and procedures demonstrating conformity to the rules and regulations outlined in the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (24 CFR Part 570.606), in conjunction with technical assistance from the Department. The Subrecipient will submit the URA policies and procedures to the Department for a review of sufficiency. URA policies and procedures must be determined to be sufficient by the Department in advance of the Department's release of a Notice to Proceed.
 4. Subrecipient will develop and implement federal environmental review policies and procedures demonstrating conformity to the rules and regulations outlined in 24 CFR Part 58, in conjunction with technical assistance from the Department. The Subrecipient will submit the federal environmental review policies and procedures to the Department for a review of sufficiency. Federal environmental review policies and procedures must be determined to be sufficient by the Department in advance of the Department's release of a Notice to Proceed.
 5. Subrecipient will develop and implement Davis-Bacon and Related Acts (DBRA) (40 U.S.C. 3141-3144) federal labor policies and procedures and to maintain long-term federal labor compliance monitoring policies and procedures, in conjunction with technical assistance from the Department. The Subrecipient will submit the DBRA federal labor compliance monitoring policies and procedures to the Department for a review of sufficiency. DBRA federal labor compliance monitoring policies and procedures must be determined to be sufficient by the Department in advance of the Department's release of a Notice to Proceed.
 6. Subrecipient will develop and implement HUD Section 3 of the Housing and Urban Development Act of 1968 (24 CFR Part 135.38) federal labor policies and procedures and maintain long-term federal labor compliance monitoring policies and procedures, in conjunction with technical assistance from the Department. The Subrecipient will submit the Section 3 federal labor compliance monitoring policies and procedures to the Department for a review of sufficiency. Section 3 federal labor compliance monitoring policies and procedures must be determined to be sufficient by the Department in advance of the Department's release of a Notice to Proceed.

EXHIBIT E

7. Subrecipient will develop and implement Anti-Lobbying (24 CFR Part 87) policies and procedures. The Subrecipient will submit the Anti-Lobbying policies and procedures to the Department for a review of sufficiency. Anti-Lobbying policies and procedures must be determined to be sufficient by the Department in advance of the Department's release of a Notice to Proceed.
8. Subrecipient will develop and implement Conflict of Interest policies and procedures consistent with 24 CFR Part 570.489(h). The Subrecipient will submit the Conflict of Interest policies and procedures to the Department for a review of sufficiency. Conflict of Interest policies and procedures must be determined to be sufficient by the Department in advance of the Department's release of a Notice to Proceed.
9. Subrecipient will develop and implement non-discrimination policies and procedures adhering to federal and state requirements. The Subrecipient will submit the non-discrimination policies and procedures to the Department for a review of sufficiency. The non-discrimination policies and procedures must be determined to be sufficient by the Department in advance of the Department's release of a Notice to Proceed.
10. Subrecipient will develop and implement policies and procedure for submitting, reviewing, and tracking staff time consistent with Subrecipient requirements outlined in the MSA between the Subrecipient and the Department. The Subrecipient will submit the timekeeping policies and procedures to the Department for a review of sufficiency. The timekeeping policies and procedures must be determined to be sufficient by the Department in advance of the Department's release of a Notice to Proceed.
11. Subrecipient will develop and implement policies and procedure that demonstrate conformity with financial management requirements outlined in 2 CFR 200.302 and applicable Federal Register Notices, in conjunction with technical assistance from the Department. The Subrecipient will submit the financial management policies and procedures to the Department for a review of sufficiency. The financial management policies and procedures must be determined to be sufficient by the Department in advance of the Department's release of a Notice to Proceed.

Applicant Information

Tell us about you.

Linked Applicant

jeldredge@cityofnapa.org

First name

Joy

Last name

Eldredge

Email

jeldredge@cityofnapa.org

Title

Deputy Utilities Director

Company

City of Napa - Utilities

Company Website

www.cityofnapa.org/water

City

napa

State

California

Organization Information

Tell us about your organization.

Jurisdiction Name

City of Napa

Organization Type

Local Government

Employer Identification Number (EIN)

DUNS

070158399

Authorized Representative

Joy Riesenberg

Business/Finance Representative

Brett Prebula

Organization Address

Address

PO Box 660

Address 2

EXHIBIT G
SUBRECIPIENT PROFILE

City

napa

State

California

County

napa

Congressional District/Region

5

Zip

94559

Phone

7072579302

Phone Extension

x7302

Fax

Authorized Representative (if different from above)

Name

Title

Email

Phone

Business/Finance Contact (if required)

Name

Brett Prebula

Title

Director of Finance

Email

bprebula@cityofnapa.org

Phone

707-257-9888

Applicants: jeldredge@cityofnapa.org

Email

jeldredge@cityofnapa.org

Dummy Applicant

Name	Attachments
City of Napa 17MITRIP-17002 MSA	Yes
City of Napa Utilities Water-Dwyer Rd Pump Station-1	Yes

Profile

jeldredge@cityofnapa.org

Record Title Format: [Jurisdiction Name] - [Program Name] - [Project Number]

Ex: Sacramento County - DR-Infrastructure - 1

*Project Numbers are based on the number of projects you are submitting for the grants.

Record Title

City of Napa 17MITRIP-17002 MSA

What Grant Program are you submitting for?

MIT-Resilient Infrastructure Program

Does the jurisdiction have existing capacity to manage the solicitation, selection, monitoring, environmental review compliance, and oversight of the program?

Yes

If Yes, please describe the capacity and staffing in detail.

Doug DeMaster, Senior Engineer
Victor Gonzalez, Assistant Engineer
Dave Hight, Systems Control Supervisor
R Dean Hanna, Water Distribution Superintendent
Dustin Farres, Engineer Assistant

What is the Project Type?

FEMA HMGP Match

Choose the Eligible Applicant. Eligible Applicants are those cities and counties identified in Section 2.2.3 of the DR-Infrastructure Policies and Procedures.

Eligible Applicant (City/County)

City of Napa

Please Type Jurisdiction Name

City of Napa

Special districts can include water districts, fire districts, school districts, etc.

Is this a project on behalf of another government entity or special district other than the Eligible Applicant?

No

OES Number e.g. PJ0385

OES Number

Control No: 0046, DR 4431

Project Title

Water Transmission Main Control and Automated Valve Installations

A description or scope of work for stand-alone infrastructure projects is required. For FEMA PA and HMGP input N/A, we will look at your worksheet for the scope of work.

Project Description and/or Scope of Work

N/A

Please provide a brief description of the location of the project.

EXHIBIT G
SUBRECIPIENT PROFILE

Project Location Description

Locations along existing 36-inch water transmission main generally along the southwest side of City of Napa water service area extending north following the alignment just west of Highway 29 to the City of Napa.

Project City

City of Napa

Project Zip Code(s)

94558, 94559

Format the Latitude and Longitude of the project in decimal form (e.g. 39.332962, -123.22534)

Project Latitude and Longitude

38.228108, -122.262173

Does the project service area benefit an LMI population or area?

No

Does the project service area benefit the MID?

No

Provide the Census Tract/Block Group of the project service area, for example, Block 3001, 3002, 3003, etc.

What Census Tracts/Block Groups are served by this project?

06055200706
06055200505
06055200804
06055200601
06055200501
06055200203
06055200503
06055200704
06055201200
06055200802
06055200707
06055200705
06055200201
06055200202
06055200302
06055200504
06055200400
06055200602
06055200301
06055200900

Service Map (Optional)

Subapp Item 6-Control 0046- Vicinity Map.pdf

Provide the current Project Status of the project.

Project Status

Design and Engineering Underway

Round 1 MIT Infrastructure Projects should be "Shovel Ready". Are project plans complete?

No

If no, describe status of plan development

Manual valves and automated valves are to be installed along an existing transmission pipeline. Standard Detail drawings are complete. Single line diagrams for automated valves are complete.

Has a NEPA Environmental Review been completed?

Yes

EXHIBIT G

SUBRECIPIENT PROFILE

Upload completed NEPA Environmental Review (Optional)

Subapp Item 13-HMGP Control 0046-EHP Checklist .docx

Provide the Total Project Cost amount in dollars, including hard project costs and Activity Delivery Costs (ADCs).

Total Project Cost (\$ amount)

\$2,074,000

FEMA can provide up to 75% of the project costs.

FEMA Funding Identified/ Committed (\$ amount)

\$1,555,500

State Matching Funds can be up to 18.75% of the project.

State Matching Funds (\$ amount)

\$388,875

Local Match (\$ amount)

\$129,625

Total unmet need for the project.

Project Unmet Need

\$129,625

The total amount that is needed from CDBG-Mitigation funding.

Anticipated CDBG funding need (\$ amount)

\$129,625

Have you applied for other sources of funds for this project?

Yes

If yes, please explain how much have you applied for, have you been awarded funds, and what is/are the amount(s)

We applied for the Hazard Mitigation Grant Project, Control No. 046 under DR4431.

Provide a description of the basis for the cost estimate and/or unmet need of the project.

Basis for Cost Estimate / CDBG Funding Need

see attached engineering cost estimate

The documentation should clearly demonstrate the reasoning of the cost estimate and support the description of the cost estimate and/or unmet need.

Provide cost estimate documentation (from a professional engineer, etc.) (Optional)

Subapp Item 9-Control 0046-Cost Estimate Spreadsheet.xlsx

Was the project denied by FEMA for PA or HMGP funds?

No

Describe prior experience in implementing risk reduction projects of scale and scope similar to project being proposed

We have completed rehabilitation of six existing 36-inch valves on a similar pipeline over the last five years and upgraded SCADA automation throughout our water system at pump stations and storage tanks. The scope of this project is similar in nature.

Is the proposed project identified as a priority project in your hazard mitigation plan?

Yes

More than one Community Lifeline can be selected.

What community lifeline will this project protect?

Safety and Security, Food, Water, Sheltering, Health and Medical

EXHIBIT G
SUBRECIPIENT PROFILE

How will this project reduce risk to community lifeline(s)?

Potable drinking water is critical to every community when considering disaster resilience. Whether it is earthquake recovery or wildland/urban interface fires, the potable drinking water system is a necessity.

How will this project improve resilience for underserved communities and vulnerable populations?

This project ensures resilience and reliability of the major water transmission main that conveys water from the water treatment plant to the City of Napa and portions of unincorporated Napa County.

Can this project be replicated in other communities?

Yes

If yes, provide a description

Similar lifeline infrastructure exists in nearly every community and ensuring control, the ability to isolate and limit damage to this type of facility is essential to every community.

Has CAL FIRE identified this project as a priority project?

No

Will you be able to quantitatively measure the impact the proposed project will have on current and future risk?

Yes

Eligible projects must be able to show anticipated impact on current and future risks.

Upload quantitative data showing a project's anticipated impact on current and future risks

Subapp Item 11-Control 0046- BCA Report.pdf

Has an operations and maintenance plan been established for the project?

No

Assuming Spring 2021 start date, what is your expected period of performance? (anticipated start date and completion date)

start date June 1, 2021, completion date April 30, 2024. The work has seasonal constraints because this critical infrastructure can not be taken offline during peak demand summer months. Shutdowns for construction are limited to winter & spring months.

If available, please provide a timeline of the submitted project.

Project Timeline (Optional)

Subapp Item 8-Control 0046-Project Work Schedule-REV 12-18-20.docx

If project is in-progress or completed after August 21st 2019, has the project been in compliance with the Davis-Bacon Act since the start of construction?

Yes

FEMA HMGP Status

In OES Review

[Not Used for NOI] Budget Worksheet

[Not Used for NOI] View Budget Worksheet

[Not Used for NOI] Project Goals

[Not Used for NOI] View Goals Worksheet

<https://portal.ecivis.com/#/peerGoals/9C423C88-706E-4517-B8A4-B18D4F13CA47>

Average Score

of Reviews

0

of Denials

0

Service Map (Optional)

Subapp Item 6-Control 0046- Vicinity Map.pdf

Upload completed NEPA Environmental Review (Optional)

Subapp Item 13-HMGP Control 0046-EHP Checklist .docx

Provide cost estimate documentation (from a professional engineer, etc.) (Optional)

Subapp Item 9-Control 0046-Cost Estimate Spreadsheet.xlsx

Upload quantitative data showing a project's anticipated impact on current and future risks

Subapp Item 11-Control 0046- BCA Report.pdf

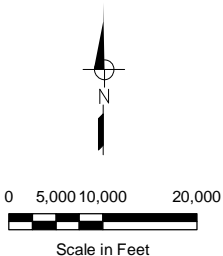
Project Timeline (Optional)

Subapp Item 8-Control 0046-Project Work Schedule-REV 12-18-20.docx



PROJECT AREA

City of Napa
2014 Earthquake
DR4431 - Control No.0046



**Hazard Mitigation Grant Program
Project Subapplication
Water Transmission Main Control
and Automated Valve Installations**

FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)
SITE INFORMATION, ENVIRONMENTAL REVIEW, AND CHECKLIST

A. PURPOSE:

Federal agencies are required by law to independently assess the potential environmental impacts resulting from their proposed actions. This form will be used to screen applications for necessary compliance with those laws. It will be used to assess the amount of available information for environmental compliance and the cost burden of environmental compliance relative to the total project cost. It is extremely important that the information provided be in accurate and sufficient detail to permit FEMA to evaluate the environmental conditions and/or features for providing financial assistance to Subapplicants.

Although the information may be obtained from FEMA's own observations, previous environmental studies and/or research must be utilized. Such information is available from the jurisdictional Federal, state and local resource/regulatory agencies responsible for protecting or regulating resources such as wetlands, floodplains, coastal zones, threatened and endangered species, farmland, or properties listed in or considered eligible for listing to the National Register of Historic Places.

This information is designed to obtain an understanding by FEMA of the project site's present environmental condition and the proposed project's elements that may affect the environment. It is important to understand the comprehensive nature of the information requested. Information must be provided for the site and immediate surrounding area that will be directly or indirectly affected by implementation (construction and operation) of the Subapplicant's proposal.

B. PURPOSE AND NEED:

FEMA will provide federal financial assistance to State and Local governments and certain non-profit entities to respond to, recover from or help mitigate disasters by providing financial assistance from the grant programs within its jurisdiction.

C. PROJECT DESCRIPTION:

APPLICATION ID:	0046
PROPOSED PROJECT LOCATION:	Napa, Napa, CA, 94559 (ADDRESS, CITY, COUNTY, STATE, ZIP CODE)
LATITUDE/LONGITUDE:	38.228108, -122.262173
PROPOSAL:	Water Transmission Main Control and Automated Valve Installations
SITE SIZE:	Eleven various locations, 8x12 max. excavation footprint each

D. PROJECT COORDINATION, PERMITS AND APPROVALS:

Will the proposal require the following agency coordination, permits and/or approvals?

	YES	NO
1. CWA Section 404/RHA Section 10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Clean Water Act Section 401/402	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. EO 11988 Floodplains 8-step Process	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. EO 11990 Wetlands 8-step Process	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. CZMA CC/Negative Determination	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Section 7 ESA	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. NHPA Section 106	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. FLPA Farmland Conversion Form AD-1006	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9. CAA General Conformity Determination	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Migratory Bird Treaty Act	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. Fish and Wildlife Coordination Act	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12. Magnuson-Stevens Fishery & Management Act	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13. Other: _____	<input type="checkbox"/>	<input type="checkbox"/>

E. POTENTIAL ENVIRONMENTAL IMPACT:

Are any of the following land uses or environmental resources located on, or adjacent to the project site, and are directly or indirectly impacted by the proposed project?

Physical Characteristics of site(s) or vicinity:	YES	NO	POSSIBLE	EXHIBITS*
1. Flat, rolling, hilly, steep slopes, mountainous?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Soil type?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Any surface water bodies (streams, saltwater, lakes, ponds, rivers, wetlands) on or near the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4. Will the project require work over, in or adjacent to waters of the U.S.?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Alter existing drainage pattern of the site, alter course of surface waters?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Create increased stormwater runoff or otherwise degrade water quality?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Source of collection and disposal of storm water runoff?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Will the proposal alter surface water quality?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Affect a sole source aquifer?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Affect a Wild and Scenic River?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Involve construction in the Coastal Zone?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Could the proposal lead to increased erosion by clearing, grading, excavation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Could the proposal cause changes in geological substructures?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Do seismic hazards exist in the area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	YES	NO	POSSIBLE	EXHIBITS*
15. Could the proposal increase mudslides, landslides, ground failure, subsidence or liquefaction?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Located in a non-attainment or maintenance area for criteria air pollutants?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Increase emission levels of regulated air pollutants and exceed <i>de minimis</i> standards?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. What types of noise would be created by this project (traffic, construction, operation)? Will the source produce short-term or long-term impacts?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Affect sensitive receptors (residences, institutions, hospitals, schools within ¼ mile of project area)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Will views in the immediate vicinity be altered or obstructed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Would the proposal result in an aesthetically negative site open to public view?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Will the proposal produce light or glare?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23. Could light or glare be a safety hazard or interfere with views?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biological Characteristics:	YES	NO	POSSIBLE	EXHIBITS*
1. Vegetation type? (Deciduous, coniferous, shrubs, grasses, pasture, cropland, hydrophytic)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Wildlife observed on site or known to exist within immediate vicinity (Birds, mammals, fish)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Potential for endangered or threatened species and/or critical habitat in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Result in the deterioration of existing or critical habitat?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Have a substantial adverse effect on any riparian habitat?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Interfere substantially with the movement of any migratory fish?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Located in a migratory flyway or migration route?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Conflict with any local ordinances protecting resources such as tree preservation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Introduce or cause the spread of invasive species during construction and/or operation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Affect any national/state/local wildlife/waterfowl refuges on or adjacent to project area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Use and Socioeconomic Characteristics:	YES	NO	POSSIBLE	EXHIBITS*
1. Have a disproportionate impact on low income or minority populations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Physically divide a community?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Induce substantial population growth?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Alter the present or planned use of an area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	YES	NO	POSSIBLE	EXHIBITS*
5. Displace a substantial number of people, housing or businesses?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Would the proposal affect existing housing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Convert important farmland?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Be located within two miles of a public airport?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Has any part of the site been classified an environmentally sensitive area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Displace any existing recreational uses?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Historic and Cultural Characteristics:

	YES	NO	POSSIBLE	EXHIBITS*
1. Result in an effect to historic properties on-site or adjacent to the site listed on or eligible for listing on the National Register of Historic Places?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Is the proposed site on or adjacent to tribal lands?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Result in excavation of soil?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Would the proposal alter or destroy prehistoric or historic archeological sites?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Result in an effect to properties designated as National Historic Landmarks?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Would the proposal result in an adverse physical or aesthetic affect to a historic property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Anticipated level of effort for Section 106 compliance?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Hazardous/Toxic Materials:

	YES	NO	POSSIBLE	EXHIBITS*
1. Does the site presently have known USTs or ASTs?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Is there any evidence of existing USTs, such as vent pipes, fill caps, etc.?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Have UST's ever been located on the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Do the past uses of the site suggest hazardous or toxic materials may be present at or near the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Are there curb cuts, footings, or other evidence of former buildings on site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Does the site or building contain any of the following: <ul style="list-style-type: none"> • PCB electric transformers? • Urea formaldehyde? Friable asbestos? • Lead-based paints? Radioactivity? • Radon? • Soil contamination? 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Is the site on or near an EPA or State Superfund or priority cleanup?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Energy and Utilities:

	YES	NO	POSSIBLE	EXHIBITS*
1. What kinds of energy (electric, natural gas, oil) will be used to meet the project's needs for construction/operation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	YES	NO	POSSIBLE	EXHIBITS*
2. Are utilities available to the site? What type (electricity, natural gas, water, garbage, telephone, sanitary sewer)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Public Services and Facilities:

	YES	NO	POSSIBLE	EXHIBITS*
1. Will the project result in an increased need for public services (fire, police, health care, schools)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Would the proposal result in a decrease in parks or open space?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Transportation:

	YES	NO	POSSIBLE	EXHIBITS*
1. Will the project change traffic patterns or volumes in the area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Does the site have access constraints?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Will the project require any new roads or streets, or improvements to existing roads or streets?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Will the proposal result in an increase of vehicular trips per day to the site?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Will the proposal result in increased hazards to motor vehicles, bicyclists or pedestrians?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Construction Activities:

	YES	NO	POSSIBLE	EXHIBITS*
1. Would the proposal result in the following?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a) increased ambient noise due to equipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) degrade local air quality due to dust, equipment exhaust and/or burning debris?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) deteriorate water quality from erosion or pollutant runoff?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) disrupt off-site and local traffic patterns?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Alternatives Considered:

	EXHIBITS*
1. Alternative locations (identify): <div style="border: 1px solid black; padding: 5px; min-height: 80px;">none</div>	<input type="checkbox"/>
2. Alternative designs (identify): <div style="border: 1px solid black; padding: 5px; min-height: 80px;">none</div>	<input type="checkbox"/>

CEQ Significance Factors (40 CFR 1508.27):

	YES	NO	POSSIBLE	EXHIBITS*
1. Is there anything in the context of the project that would suggest impacts might be significant?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Is the intensity of any of the following factors such that the impacts might be significant?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a) Beneficial and adverse impacts?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Human health or safety impacts?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Impacts on unique characteristics of the area, such as historic or cultural resources, park lands, prime farmlands, wetlands, floodplains, wild and scenic rivers, or ecologically critical areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Impacts that are likely to be highly controversial?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Impacts that are highly uncertain or involve unique/unknown risks?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) The action establishes a precedent for future actions with potentially significant effects?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g) Impacts that are reasonably expected to be cumulative?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h) Adverse impacts on districts, sites, highways, structures, or objects listed in or eligible for listing in the National Register of Historic Places, or impacts that may cause loss or destruction of significant scientific, cultural, or historical resources?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i) Adverse impacts on threatened or endangered species or its critical habitat as determined under the Endangered Species Act?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j) The action threatens a violation of Federal, state or local law or requirements imposed for the protection of the environment?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

F. Does the proposal result in FEMA's Extraordinary Circumstances?

I. Greater scope or size than normal for a particular category of action?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
II. High level of public controversy?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
III. Potential to degrade already poor environmental conditions?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
IV. Use of unproven technology with the potential for adverse effect?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
V. Presence of endangered or threatened species or their critical habitat?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

- VI. Presence of archaeological, cultural or historic properties? Yes No
- VII. Presence of hazardous or toxic substances at levels that exceed Federal, state, or local regulations or standards requiring action? Yes No
- VIII. Potential to affect adversely special status areas such as wetlands, coastal zones, wildlife refuges, wilderness areas, wild and scenic rivers or sole source drinking water aquifers? Yes No
- IX. Potential to adversely affect human health and safety? Yes No
- X. Would the project violate federal, state, local laws or tribal law or requirement imposed for the protection of the environment? Yes No
- XI. Potential for significant cumulative impact with other RFFAs? Yes No
- XI. Potential for significant cumulative impact with other RFFAs? Yes No
- If yes, identify: _____

G. **Is the proposed project for HMA funding part of a larger proposal that would subject the entire project to Federal environmental review?** Yes No

H. **Does the application contain measures to avoid, reduce, minimize, or compensate potential environmental impacts?** Yes No

If yes, describe: Best management practices shall be implemented during construction to minimize environmental impacts. The proposed isolation shutoff valves will reduce the amount of water discharged during a break incident.

I. Were mitigation measures included in the proposal's budget? Yes No

J. What is the potential EHP cost of compliance relative to the requested federal share (cost of compliance refers to FEMA or FEMA contractor preparation of compliance activities not cost for mitigation measures that the Subapplicant would be responsible for):

- High (>50% of requested Federal share)
Medium (25-50% of requested Federal share)
Low (<25% of requested Federal share)

K. What is the anticipated Environmental compliance costs associated with the overall project?

- High (>50% of requested Federal share)
Medium (25-50% of requested Federal share)
Low (<25% of requested Federal share)
Not enough information to determine

*** IF APPLICABLE, ADDITIONAL INSTRUCTIONS FOR NARRATIVE RESPONSES AND EXHIBITS**

1. **Floodplains** – Provide FEMA FIRM Map with site location clearly marked.
2. **Wetlands** – If the primary site alternative and/or its practicable alternative require a Section 10 of the Rivers and Harbors Act or a CWA Section 404 permit. Provide status of USACE permit receipt. Attach NWI wetlands map, as necessary.
3. **Viewshed** – If the proposed project is located in or adjacent to a residential or historic district, perform and provide a Visual Impact Assessment.
4. **Existing habitat** – Identify and describe any existing, observed in the field, or known or expected to exist flora and fauna species at the project site and immediately surrounding the site.
5. **Endangered/threatened species and/or critical habitat** – Contact local Ecological Services Field Office of the U.S. Fish and Wildlife Service (FWS) and obtain information and listing of any E/T **known to exist at the site or in the immediate vicinity.**
6. **Migratory Flyway or migration barrier** – If the proposed project is new construction or extension of an existing tower of 30' in height or more complete Tower Site Evaluation Form.
7. **Invasive Species** – Provide information about Subapplicant's plans for re-vegetation and avoidance of spreading invasive species during construction.
8. **Minority of low-income populations** – If the proposed project will impact minority and low- income populations as identified in Executive Order 12898, perform evaluation in accordance with EPA guidance on performing Environmental Justice Analysis.
9. **Farmland** – If alternative would convert or impact important farmland, complete and submit NRCS Form AD 1006 to the Natural Resources Conservation Service for rating. Attached completed and signed form (by NRCS).
10. **Historic and Cultural Characteristics** – Identify any listed, eligible or potentially eligible historic/archaeological resources the APE. Provide CHRIS, data sheets or other sources obtained from State Historic Preservation Officers used to identify such properties.
11. **Hazardous Substances** – Provide a description of any hazardous, toxic materials found at the site.
12. **Roadway and Access** – Provide description of what, where, how, length, width, depth, material, permanent or temporary and drawings including site plan and cross sectional drawing. If roadway is temporary, how will fill material (If CWA fill permit required, see #2 above) or roadway surfacing be removed and site restored.
13. **Alternatives Considered** – Provide a description and a justification for elimination of other proposed project locations and designs considered.

PREPARED BY: Victor Gonzalez

TITLE: Assistant Engineer

TELEPHONE: 707-257-9647

DATE: 12/13/2019

HMGP Cost Estimate Spreadsheet

HMGP Cost Estimate Spreadsheet							
DATE	JURISDICTION NAME	DISASTER & PROJECT OR PLANNING #		PROJECT OR PLANNING TITLE			
12/12/2019	City of Napa	DR4413 / Control No. 0046		Transmission Main Control and Automated Valve Ins			
#	Item Name	Unit Quantity	Unit of Measure	Unit Cost	Cost Estimate Total		
1	Pre-award Cost: Subapplication and specifications	1	EA	\$ 8,000.00	\$ 8,000		
2	36-inch butterfly valve	11	EA	\$ 46,000.00	\$ 506,000		
3	Motor actuators	5	EA	\$ 30,000.00	\$ 150,000		
4	Electrical power service	5	EA	\$ 15,000.00	\$ 75,000		
5	Engineering and Design	11	EA	\$ 15,000.00	\$ 165,000		
6	Right-of-Way acquisition (Easements)	11	EA	\$ 15,000.00	\$ 165,000		
7	Site pad and bypass	11	EA	\$ 12,000.00	\$ 132,000		
8	Construction	11	EA	\$ 59,500.00	\$ 654,500		
9	Electrical and programming	5	EA	\$ 14,000.00	\$ 70,000		
10	Construction Management	1	EA	\$ 118,500.00	\$ 118,500		
11	Environmental review	1	EA	\$ 30,000.00	\$ 30,000		
12					\$ -		
13					\$ -		
14					\$ -		
15					\$ -		
16					\$ -		
17					\$ -		
18					\$ -		
19					\$ -		
20					\$ -		
21					\$ -		
22					\$ -		
23					\$ -		
24					\$ -		

EXHIBIT G
SUBRECIPIENT PROFILE
COST ESTIMATE

			25					\$	-
			26					\$	-
			27					\$	-
			28					\$	-
			29					\$	-
			30					\$	-
			31					\$	-
			32					\$	-
			33					\$	-
			34					\$	-
			35					\$	-
			36					\$	-
			37					\$	-
			38					\$	-
			39					\$	-
			40					\$	-
								Total Project Cost Estimate:	\$ 2,074,000

EXHIBIT G
SUBRECIPIENT PROFILE
Units of Measurement

			AC	ACRE
			CF	CUBIC FOOT
			CY	CUBIC YARD
			DAY	DAY
			EA	EACH
			HR	HOUR
			LF	LINEAR FOOT
			LS	LUMP SUM
			MBF	MILLION BOARD FEET
			MI	MILE
			SEAT	NUMBER OF SEATS
			SF	SQUARE FOOT
			SQ	UNKNOWN
			SY	SQUARE YARD
			SY/IN	SQUARE YARD PER INCH
			TON	TON
			FT	FOOT
			IN	INCH

EXHIBIT G

05 Dec 2019

Project: **Water Transmission Main Control
 and Automated Valve Installations**

Total Benefits: **\$6,016,176**

Total Costs: **\$2,108,655**

BCR: **2.85**

Project Number: 0046

Disaster #: DR4431

Program: HMGP

Agency: **City of Napa**

State: **California**

Point of Contact: Joy Eldredge

Analyst: Desiree Brun

Project Summary:

Project Number: 0046

Disaster #: DR4431

Program: HMGP

Agency: City of Napa

Analyst: Desiree Brun

Discount Rate: 0.070

Point of Contact: Joy Eldredge

Phone Number: 707-257-9319

Address: PO Box 660, Napa, California, 94559

Email: jeldredge@cityofnapa.org

Comments: City of Napa Water

Structure Summary For:

36-inch water transmission pipeline, Southwest Napa Pipeline alignment, Napa, California, 94559, Napa

Structure Type: Utility

Historic Building: No

Contact: Joy Eldredge

Benefits: \$6,016,176

Costs: \$2,108,655

BCR: 2.85

Mitigation	Hazard	BCR	Benefits	Costs
Anchor/Brace non-structural	Damage-Frequency Assessment	2.85	\$6,016,176	\$2,108,655

EXHIBIT G

05 Dec 2019

Project: **Water Transmission Main Control
and Automated Valve Installations**

Total Benefits: **\$6,016,176**

Total Costs: **\$2,108,655**

BCR: **2.85**

Project Number: 0046

Disaster #: DR4431

Program: HMGP

Agency: **City of Napa**

State: **California**

Point of Contact: Joy Eldredge

Analyst: Desiree Brun

Structure and Mitigation Details For: 36-inch water transmission pipeline, Southwest Napa Pipeline alignment, Napa, California, 94559, Napa

Benefits: \$6,016,176

Costs: \$2,108,655

BCR: 2.85

Hazard: **Damage-Frequency Assessment - Earthquake**

Mitigation Option: Anchor/Brace non-structural

Latitude:

Longitude:

Project Useful Life: 52

Mitigation Information

Basis of Damages: Historical Damages

Number of Estimated Damage Events: 3

Number of Events with Know Recurrence
Intervals: 2

Utilities

Type of Service: Potable Water

Other:

Number of Customers: Served: 35,000

Value per Unit of Service: 103.00

Total Value of Service per Day: \$3,605,000

Facility Description:

36-inch AC potable water transmission main is a critical feed from the Barwick Jamieson Water Treatm

05 Dec 2019

Project: **Water Transmission Main Control and Automated Valve Installations**

Total Benefits: **\$6,016,176**

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BCR: **2.85**

Project Number: 0046

Disaster #: DR4431

Program: HMGP

Agency: **City of Napa**

State: **California**

Point of Contact: Joy Eldredge

Analyst: Desiree Brun

Historic Damages Before and After Mitigation

Analysis Year: 2019

Analysis Duration: 53

Utilities (\$/day): \$3,605,000.00

Year Built: 1967

User Input Analysis Duration:

Buildings (\$/day):

Roads/Bridges (\$/day):

Damages Before Mitigation

Damage Year: 2014

RI: 20.00

Are Damages In Current Dollars? Yes

Buildings (Days):

Utilities (Days): 28.0

Roads (Days):

Total	\$100,940,000
Total Inflated	\$100,940,000

Damages After Mitigation

RI: 20.00

Are Damages In Current Dollars? Yes

Buildings (Days):

Utilities (Days): 18.0

Roads (Days):

Total	\$64,890,000

Volunteers Cost

Number of Volunteers Required:

Cost of Volunteers Time (\$/Hour/Person):

Per-Person Cost of Lodging for a Volunteer:

Number of Hours Volunteered/Person:

Number of Days Lodging/Volunteer:

Cost of Volunteers:

RI: 5.00

Are Damages In Current Dollars? Yes

Buildings (Days):

Utilities (Days): 8.0

Roads (Days):

Total	\$28,840,000

EXHIBIT G

05 Dec 2019

Project: **Water Transmission Main Control and Automated Valve Installations**

Total Benefits: **\$6,016,176**

Total Costs: **\$2,108,655**

BCR: **2.85**

Project Number: 0046

Disaster #: DR4431

Program: HMGP

Agency: **City of Napa**

State: **California**

Point of Contact: Joy Eldredge

Analyst: Desiree Brun

Damage Year: 2010

RI: 5.00

Are Damages In Current Dollars? Yes

Buildings (Days):

Utilities (Days): 12.0

Roads (Days):

Total	\$43,260,000
Total Inflated	\$43,260,000

RI: 5.00

Are Damages In Current Dollars? Yes

Buildings (Days):

Utilities (Days): 13.0

Roads (Days):

Total	\$46,865,000

Volunteers Cost

Number of Volunteers Required:

Cost of Volunteers Time (\$/Hour/Person):

Per-Person Cost of Lodging for a Volunteer:

Number of Hours Volunteered/Person:

Number of Days Lodging/Volunteer:

Cost of Volunteers:

RI: 20.00

Are Damages In Current Dollars? Yes

Buildings (Days):

Utilities (Days):

Roads (Days):

Pipeline Repair Cost (\$)	\$300,000
Total	\$300,000

Damage Year: 2010

RI: 5.00

Are Damages In Current Dollars? Yes

Buildings (Days):

Utilities (Days): 21.0

Roads (Days):

Total	\$75,705,000
Total Inflated	\$75,705,000

RI: 5.00

Are Damages In Current Dollars? Yes

Buildings (Days):

Utilities (Days):

Roads (Days):

Pipeline Repair Cost (\$)	\$25,000
Total	\$25,000

Volunteers Cost

Number of Volunteers Required:

Cost of Volunteers Time (\$/Hour/Person):

Per-Person Cost of Lodging for a Volunteer:

Number of Hours Volunteered/Person:

Number of Days Lodging/Volunteer:

Cost of Volunteers:

EXHIBIT G

05 Dec 2019

Project: **Water Transmission Main Control
 and Automated Valve Installations**

Total Benefits: **\$6,016,176**

Total Costs: **\$2,108,655**

BCR: **2.85**

Project Number: 0046

Disaster #: DR4431

Program: HMGP

Agency: **City of Napa**

State: **California**

Point of Contact: Joy Eldredge

Analyst: Desiree Brun

Damage Year: 2014

RI: 20.00

Are Damages In Current Dollars? Yes

Buildings (Days):

Utilities (Days):

Roads (Days):

Pipeline Repair Cost (\$)	\$560,000
Total	\$560,000
Total Inflated	\$560,000

RI: 5.00

Are Damages In Current Dollars? Yes

Buildings (Days):

Utilities (Days):

Roads (Days):

Pipeline Repair Cost (\$)	\$200,000
Total	\$200,000

Volunteers Cost

Number of Volunteers Required:

Cost of Volunteers Time (\$/Hour/Person):

Per-Person Cost of Lodging for a Volunteer:

Number of Hours Volunteered/Person:

Number of Days Lodging/Volunteer:

Cost of Volunteers:

Damage Year: 2010

RI: 5.00

Are Damages In Current Dollars? Yes

Buildings (Days):

Utilities (Days):

Roads (Days):

Pipeline Repair Cost (\$)	\$35,000
Total	\$35,000
Total Inflated	\$35,000

Volunteers Cost

Number of Volunteers Required:

Cost of Volunteers Time (\$/Hour/Person):

Per-Person Cost of Lodging for a Volunteer:

Number of Hours Volunteered/Person:

Number of Days Lodging/Volunteer:

Cost of Volunteers:

EXHIBIT G

05 Dec 2019

Project: **Water Transmission Main Control and Automated Valve Installations**

Total Benefits: **\$6,016,176**

Total Costs: **\$2,108,655**

BCR: **2.85**

Project Number: 0046

Disaster #: DR4431

Program: HMGP

Agency: **City of Napa**

State: **California**

Point of Contact: Joy Eldredge

Analyst: Desiree Brun

Damage Year: 2010

RI: 5.00

Are Damages In Current Dollars? Yes

Buildings (Days):

Utilities (Days):

Roads (Days):

Pipeline Repair Cost (\$)	\$480,000
Total	\$480,000
Total Inflated	\$480,000

Volunteers Cost

Number of Volunteers Required:

Cost of Volunteers Time (\$/Hour/Person):

Per-Person Cost of Lodging for a Volunteer:

Number of Hours Volunteered/Person:

Number of Days Lodging/Volunteer:

Cost of Volunteers:

Social Benefits

Mental Stress and Anxiety

Number of Person:

Treatment Costs per person: \$2,443.00

Total Mental Stress and Anxiety Cost: \$0.00

Lost Productivity

Number of Worker:

Productivity Loss per person: \$8,736.00

Total Lost Productivity Cost: \$0.00

BCR Calculation Results

Expected Annual Damages Before Mitigation

Expected Annual Damages After Mitigation

Expected Avoided Damages After Mitigation (Benefits)

Annual: \$1,054,684	Annual: \$620,683	Annual: \$434,001
Present Value: \$14,620,161	Present Value: \$8,603,985	Present Value: \$6,016,176

Mitigation Benefits: \$6,016,176

Mitigation Costs: \$2,108,655

Benefits Minus Costs: \$3,907,521

Benefit-Cost Ratio: 2.85

05 Dec 2019

Project: **Water Transmission Main Control
and Automated Valve Installations**Page 28 of 118
Pg 7 of 8Total Benefits: **\$6,016,176**Total Costs: **\$2,108,655**BCR: **2.85**

Project Number: 0046

Disaster #: DR4431

Program: HMGP

Agency: **City of Napa**State: **California**

Point of Contact: Joy Eldredge

Analyst: Desiree Brun

Cost Estimate

Project Useful Life (years):	52	Construction Type:	
Mitigation Project Cost:	\$2,074,000	Detailed Scope of Work:	Yes
Annual Project Maintenance Cost:	\$2,500	Detailed Estimate for Entire Project:	Yes
Final Mitigation Project Cost:	\$2,108,655	Years of Maintenance:	52
Cost Basis Year:		Present Worth of Annual Maintenance Costs:	\$34,655
Construction Start Year:		Estimate Reflects Current Prices:	Yes
Construction End Year:		Project Escalation:	

Justification/Attachments

EXHIBIT G

05 Dec 2019

Project: **Water Transmission Main Control
 and Automated Valve Installations**

Total Benefits: **\$6,016,176**

Total Costs: **\$2,108,655**

BCR: **2.85**

Project Number: 0046

Disaster #: DR4431

Program: HMGP

Agency: **City of Napa**

State: **California**

Point of Contact: Joy Eldredge

Analyst: Desiree Brun

Field	Description	Attachments
Annual Project Maintenance Cost	Expected pipe life remaining is 53 years: 100-year pipe constructed in 1967	
Facility Description	The system feeds 84,000 customers and an estimated 35,000 customers are directly affected by a failure of the 36-inch transmission main.	
Historic damages before mitigation	Assumes 2014 earthquake-related breaks: 28 days to repair 36-inch near Soscol Ferry Rd at a cost of \$560k. Assumes historical breaks due to differential settlement as experienced on average 2 breaks per 5-year period. Costs vary by site.	
Mitigation Project Cost	Previously submitted cost estimate is \$2,074,000 including design and construction.	
Number of Customers Served	Zone 3 customers directly affected out of 84,000 total customers.	
Project useful life	Previously submitted cost estimate is \$2,074,000 including design and construction.	
Unknown Frequency - Damages after Mitigation	Recurrence interval for the earthquake-related damage is 20 years. The time for the outage utility (days) is reduced as well as the cost of the repairs with the valves and automated valves installed.	
User Input Analysis Duration	Assumes 100 year life of pipeline. Pipeline was constructed in 1967 therefore has 52 years remaining as of 2015.	
Value per Unit of Service	The system feeds 84,000 customers and an estimated 35,000 customers are directly affected by a failure of the 36-inch transmission main.	
Year Built	Pipeline life expectancy is 100 years. Pipeline was constructed in 1967.	

Description	Duration
Survey	June1- June 15, 2021
Design	July 1 – Oct 30, 2021
City Council approval	Dec 15, 2021
Procure Easement or right of way	July 15 – Mar 18, 2022
Permits	
Encroachment permit	Mar 28 - Apr 8, 2022
Inspection	Apr 26, 2022
Site preparation	May 2, 2022
Relocation of people or property	
Establish & relocate electrical power	July 15, 2021 – June 15, 2022
Bidding	June 1, 2022– July 14, 2022
City Council Approval	August 2, 2022
Construction NTP	August 30, 2022
Order 36-inch valves and actuators	Sept 2, 2022 – Dec 30, 2022
---Estimated dates of T&O at HTP during lake turnover; only 1 system feed---	Oct 30 – Dec 20, 2022
Mobilize and Install 1 st control valve with bypass at south end of alignment	Jan 3 – Jan 30, 2023
Install power and controls, complete programming and testing of 1 st automated actuator control valve at south end of alignment.	Jan 23 – Feb 14, 2023
Mobilize and Install 2 nd control valve with bypass at middle area of alignment	Feb 1 – Feb 28, 2023
Install power and controls, complete programming and testing of 2 nd automated actuator control valve at middle area of alignment.	Feb 20 – Mar 13, 2023
Mobilize and Install 3 rd and 4 th control valves where 3 rd valve is north of Robinson, 4 th valve is southern end near Sheehy. Use 24-in feed near Robinson Lane for zone 3 area in BV and west of Laurel.	Mar 1 – Mar 30, 2023
---NBA shut down for annual maintenance (schedule subject to change); only 1 system feed -- -	Apr 3 – Apr 24, 2023
Mobilize and Install 5 th control valve with bypass	Mar 30 – Apr 21, 2023

Install power and controls, complete programming and testing of 3 rd automated actuator on the control valve at middle area of alignment.	Apr 17 – May 8, 2023
Mobilize and Install 6 th control valve with bypass	Apr 24 – May 19, 2023
Mobilize and Install 7 th control valve with bypass	May 22 - June 19, 2023
Peak Demand time, no transmission shut-downs.	Mid June - mid Sept
Mobilize and Install 8 th control valve with bypass	Sept 25 – Oct 23, 2023
---Estimated dates of T&O at HTP during lake turnover; only 1 system feed----	Oct 30 – Dec 20, 2022
Mobilize and Install 9 th control valve with bypass	Oct 24 – Nov 21, 2023
Install power and controls, complete programming and testing of 4 th automated actuator control valve.	Nov 6 – Nov 29, 2023
Mobilize and Install 10 th control valve with bypass	Nov 28 – Dec 22, 2023
Install power and controls, complete programming and testing of 5 th automated actuator control valve.	Dec 13 – Jan 5, 2024
Mobilize and Install 11 th control valve with bypass	Jan 3 – Jan 31, 2024
Punch list	Jan 15 – Mar 30, 2024
Demobilize	Mar 6, 2024
Construction sub-milestones are unique to the type of project. Add as appropriate	
Project Closeout	April 30, 2024

Notes:

**Project application due December 13, 2019
Schedule and all project costs**

Construction Completion no later than September, 2023

Applications: City of Napa Utilities Water-Dwyer Rd Pump Station-1

Profile

jeldredge@cityofnapa.org

Record Title Format: [Jurisdiction Name] - [Program Name] - [Project Number]

Ex: Sacramento County - DR-Infrastructure - 1

*Project Numbers are based on the number of projects you are submitting for the grants.

Record Title

City of Napa Utilities Water-Dwyer Rd Pump Station-1

What Grant Program are you submitting for?

MIT-Resilient Infrastructure Program

Does the jurisdiction have existing capacity to manage the solicitation, selection, monitoring, environmental review compliance, and oversight of the program?

Yes

If Yes, please describe the capacity and staffing in detail.

Doug DeMaster, PE, Senior Engineer

Victor Gonzalez, EIT, Assistant Engineer

Yonas Abraha, Engineering Aide

What is the Project Type?

FEMA HMGP Match

Choose the Eligible Applicant. Eligible Applicants are those cities and counties identified in Section 2.2.3 of the DR-Infrastructure Policies and Procedures.

Eligible Applicant (City/County)

City of Napa

Please Type Jurisdiction Name

City of Napa - Utilities Water Fund

Special districts can include water districts, fire districts, school districts, etc.

Is this a project on behalf of another government entity or special district other than the Eligible Applicant?

Yes

If yes, name of other government entity or special district

City of Calistoga and City of St. Helena

OES Number e.g. PJ0385

OES Number

PJ0235

Project Title

Dwyer Road Pump Station

A description or scope of work for stand-alone infrastructure projects is required. For FEMA PA and HMGP input N/A, we will look at your worksheet for the scope of work.

Project Description and/or Scope of Work

N/A

Please provide a brief description of the location of the project.

Project Location Description

West of train tracks parallel to Hwy 29 on the North side of Dwyer Road in unincorporated Napa County, north of the Town of Yountville.

Project City

Unincorporated Napa County

EXHIBIT G
SUBRECIPIENT PROFILE

Project Zip Code(s)
94558

Format the Latitude and Longitude of the project in decimal form (e.g. 39.332962, -123.22534)

Project Latitude and Longitude
38.42333333 N 122.39194444 W

Does the project service area benefit an LMI population or area?
Yes

If yes, describe how the project service area benefits an LMI population or area

City of Calistoga is a low- and moderate- income community. This project boosts pressure in the northern portion of the City of Napa water transmission system that provides treat & wheel services to City of Calistoga. Boosting pressures in the water transmission system benefits the City of Calistoga when the Barwick Jamieson Treatment Plant is the only plant online such that water is stored in the Hennessey clearwell and has sufficient pressure to be conveyed to the City of Calistoga system.

Upload document that support the LMI service area (Optional)

Support Doc-LMI Service Area.docx

Does the project service area benefit the MID?
No

Provide the Census Tract/Block Group of the project service area, for example, Block 3001, 3002, 3003, etc.

What Census Tracts/Block Groups are served by this project?

The water service area boundary doesn't match the block group boundaries.

The project fully serves:

- Tract 202000 Block Groups 1, 2, 3, 4, and
- Tract 201900, Block Group 2.

The project partially serves (less than 25%):

- Tract 201500, Block Group 1, and
- Tract 201900, Block Group 1.

Service Map (Optional)

Service Area Map -Control 0235 Dwyer Rd PS Hydraulic Analysis.pdf

Provide the current Project Status of the project.

Project Status

Design and Engineering Completed

Round 1 MIT Infrastructure Projects should be "Shovel Ready". Are project plans complete?

Yes

Upload project plans (Optional)

Subapp item 3-Control 0235 Dwyer Rd PS_Design_Drawings.pdf

Has a NEPA Environmental Review been completed?

Yes

Upload completed NEPA Environmental Review (Optional)

Subapp Item 12-HMGP Control 0235-Envtl additional info.docx

Provide the Total Project Cost amount in dollars, including hard project costs and Activity Delivery Costs (ADCs).

Total Project Cost (\$ amount)

\$7,000,000

FEMA can provide up to 75% of the project costs.

FEMA Funding Identified/ Committed (\$ amount)

\$5,250,000

EXHIBIT G
SUBRECIPIENT PROFILE

State Matching Funds can be up to 18.75% of the project.

State Matching Funds (\$ amount)

\$1,312,500

Local Match (\$ amount)

\$437,500

Total unmet need for the project.

Project Unmet Need

\$437,500

The total amount that is needed from CDBG-Mitigation funding.

Anticipated CDBG funding need (\$ amount)

\$437,500

Have you applied for other sources of funds for this project?

Yes

If yes, please explain how much have you applied for, have you been awarded funds, and what is/are the amount(s)

We applied for the 25% match or \$1,750,000 for this project Hazard Mitigation Project PJ0235. The project was placed on the waitlist pending additional funding becoming available.

Provide a description of the basis for the cost estimate and/or unmet need of the project.

Basis for Cost Estimate / CDBG Funding Need

See attached engineering cost estimate for the project.

The documentation should clearly demonstrate the reasoning of the cost estimate and support the description of the cost estimate and/or unmet need.

Provide cost estimate documentation (from a professional engineer, etc.) (Optional)

Dwyer HMGP Cost Estimate Spreadsheet - 02.2018.xlsx

Was the project denied by FEMA for PA or HMGP funds?

No

Describe prior experience in implementing risk reduction projects of scale and scope similar to project being proposed

This Project is nearly shovel ready and has been designed per the attached plans. This project was put on hold in 2014 due to the earthquake response, then again in 2015 due to funding challenges caused by reduced revenue as a result of the Statewide drought mandate requiring 20% reduction in demand. Reduced sales resulted in reduced revenue for the Water Enterprise Funds.

Funding assistance will allow staff to implement the shovel-ready project. A minimal effort is required to update plans and specs to labor compliance changes since 2015.

Is the proposed project identified as a priority project in your hazard mitigation plan?

Yes

More than one Community Lifeline can be selected.

What community lifeline will this project protect?

Safety and Security, Food, Water, Sheltering, Health and Medical

EXHIBIT G
SUBRECIPIENT PROFILE

How will this project reduce risk to community theme(s)?

As proven during the 2014 earthquake and 2017 fires, resiliency and reliability for potable water systems is critical during every disaster response. This project increases system storage by giving the City of Napa the ability to pump water to the Lake Hennessey clearwell from water treated at the south side of the system at the Barwick Jamieson Water Treatment Plant. This is a hydraulically lower pressure area and can feed all areas of the water system without running the Lake Hennessey Treatment Plant. The City of Napa water system also provides emergency backup to the Cities of St Helena, Calistoga, Town of Yountville and the Veterans Home in Yountville. This project will increase reliability of critical water supply in emergency situations including earthquakes or wildland fires when the City of Napa and/or the aforementioned Upvalley communities face disasters as has occurred in 2017 Atlas and Partrick Fires and 2020 Hennessey LNU and Glass Fires.

How will this project improve resilience for underserved communities and vulnerable populations?

The Dwyer Road Pump Station gives the City of Napa the ability to provide water to the northern most area of the water system and connection with Cities of St Helena and Calistoga. The City of Calistoga includes low income population or disadvantaged community according to the 2015-2019 census.

Can this project be replicated in other communities?

Yes

If yes, provide a description

Yes, should similar hydraulic conditions

Has CAL FIRE identified this project as a priority project?

No

Will you be able to quantitatively measure the impact the proposed project will have on current and future risk?

Yes

Eligible projects must be able to show anticipated impact on current and future risks.

Upload quantitative data showing a project's anticipated impact on current and future risks

18-09-13_Subapp Item 10- Dwyer Road PS_BCA Report.pdf

Has an operations and maintenance plan been established for the project?

No

Assuming Spring 2021 start date, what is your expected period of performance? (anticipated start date and completion date)

Assumes start date for the Project

If available, please provide a timeline of the submitted project.

Project Timeline (Optional)

Subapp Item 7-Control 0235_Dwyer PS schedule-REV 2020.xlsx

If project is in-progress or completed after August 21st 2019, has the project been in compliance with the Davis-Bacon Act since the start of construction?

Yes

FEMA HMGP Status

On Waiting List

[Not Used for NOI] Budget Worksheet

[Not Used for NOI] View Budget Worksheet

[Not Used for NOI] Project Goals

[Not Used for NOI] View Goals Worksheet

<https://portal.ecivis.com/#/peerGoals/879B5591-AFC1-4C0D-A79B-C7AE52A7D4C8>

Average Score

of Reviews

0

of Denials
0

Applications: City of Napa Utilities Water-Dwyer Rd Pump Station-1 File Attachments

Upload document that support the LMI service area (Optional)

Support Doc-LMI Service Area.docx

Service Map (Optional)

Service Area Map -Control 0235 Dwyer Rd PS Hydraulic Analysis.pdf

Upload project plans (Optional)

Subapp item 3-Control 0235 Dwyer Rd PS_Design_Drawings.pdf

Upload completed NEPA Environmental Review (Optional)

Subapp Item 12-HMGP Control 0235-Envtl additional info.docx

Provide cost estimate documentation (from a professional engineer, etc.) (Optional)

Dwyer HMGP Cost Estimate Spreadsheet - 02.2018.xlsx

Upload quantitative data showing a project's anticipated impact on current and future risks

18-09-13_Subapp Item 10- Dwyer Road PS_BCA Report.pdf

Project Timeline (Optional)

Subapp Item 7-Control 0235_Dwyer PS schedule-REV 2020.xlsx

City of Napa - Dwyer Road Pump Station – PJ0235

City of Calistoga census information

2015-2019 Median Household Income = \$67,119.

<https://www.census.gov/quickfacts/fact/table/calistogacitycalifornia/INC110219>

census.gov/quickfacts/fact/table/calistogacitycalifornia/INC110219

Maps & GIS & One... Dropbox County Planning an... Home | Grants Portal napavalleyregister.c... Utilities Dept Mana... AWWA & WRF B&G Club IRWMP & Grants Sha

All Topics	Calistoga city, California
Median household income (in 2019 dollars), 2015-2019	\$67,119
Transportation	
Mean travel time to work (minutes), workers age 16 years+, 2015-2019	18.7
Income & Poverty	
Median household income (in 2019 dollars), 2015-2019	\$67,119
Per capita income in past 12 months (in 2019 dollars), 2015-2019	\$48,232
Persons in poverty, percent	6.9%

O:\Clients\424 City of Napa\02-09-10 Dwyer Road PS Feasibility-Level\CAD\Figures\Figure 2_Overall Napa Valley System.dwg 2-01-10 09:54:21 AM isuroso

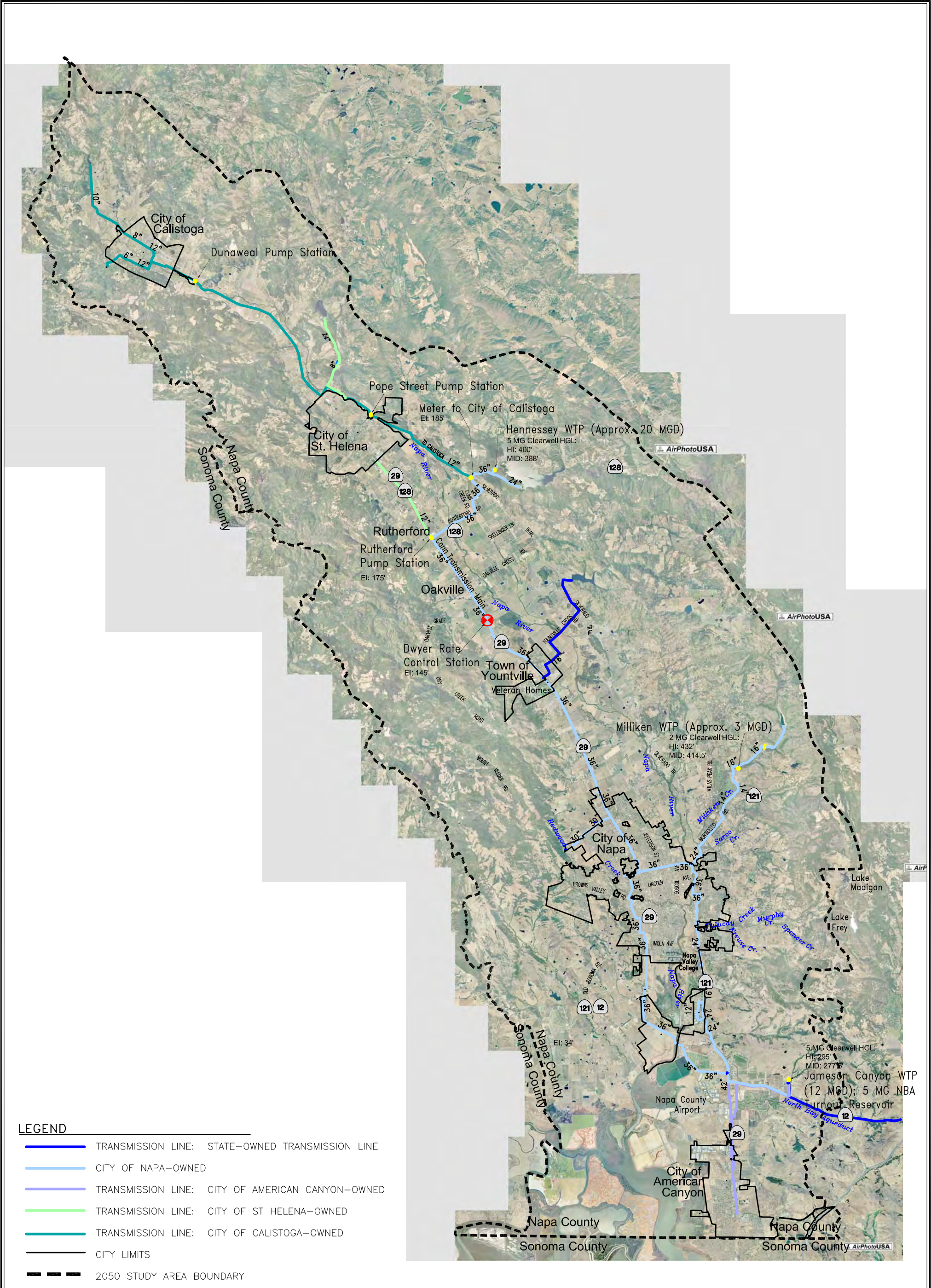
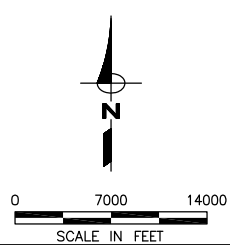
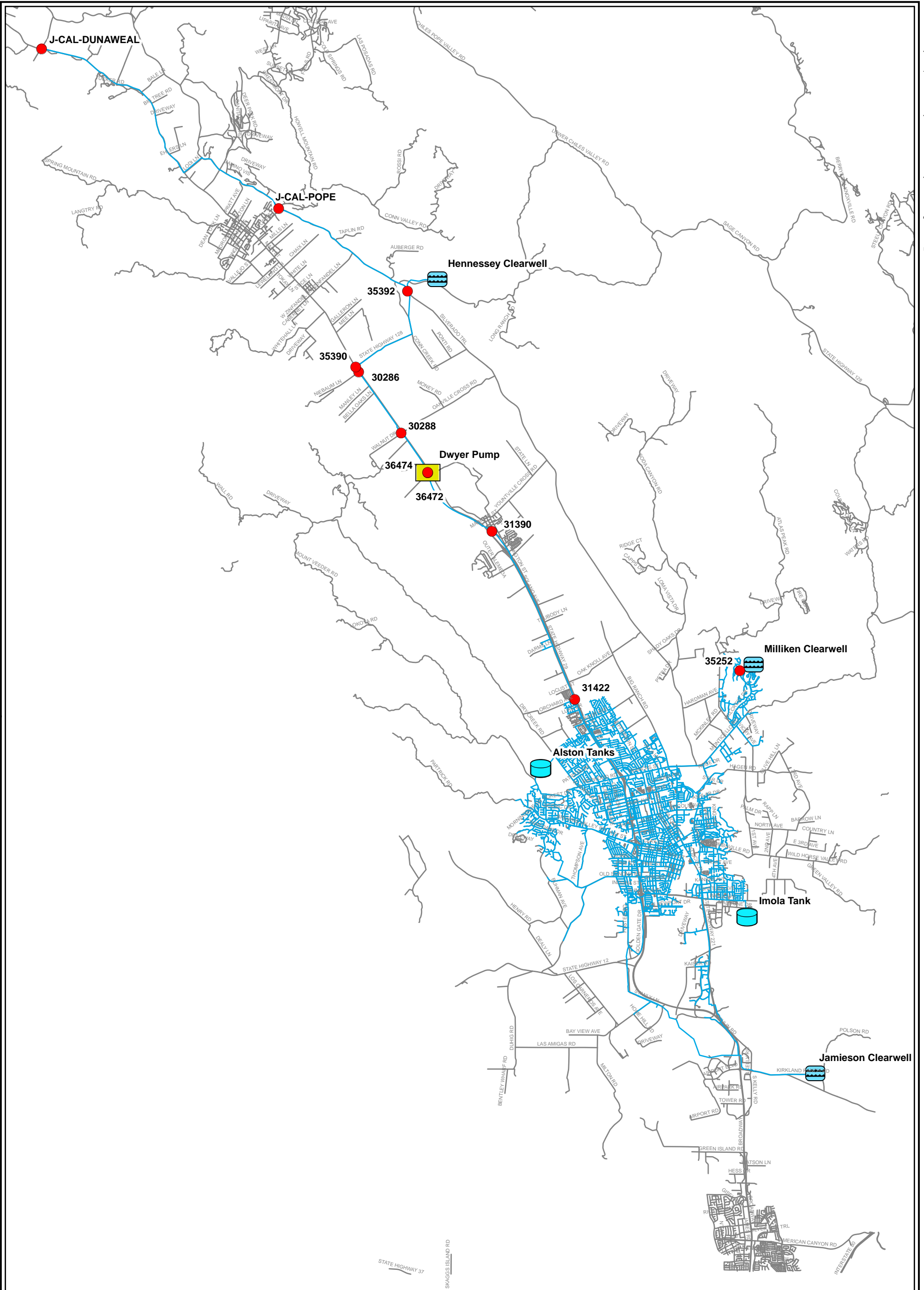


Figure 2

City of Napa
DWYER PUMP STATION FEASIBILITY -
NAPA VALLEY WATER SYSTEM





O:\Clients\424 City of Napa\02-09-10 Dwyer Road PS Feasibility-Level\GIS\Figures\Fig3_SelctedNodes.mxd 1/22/2010

- LEGEND**
- Selected Node
 - Clearwell
 - Pressure Zone 3 Storage Tank
 - PS Proposed Dwyer Pump Station
 - Existing Pipeline

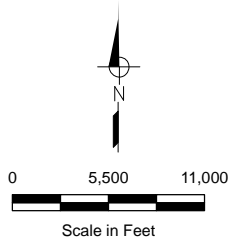
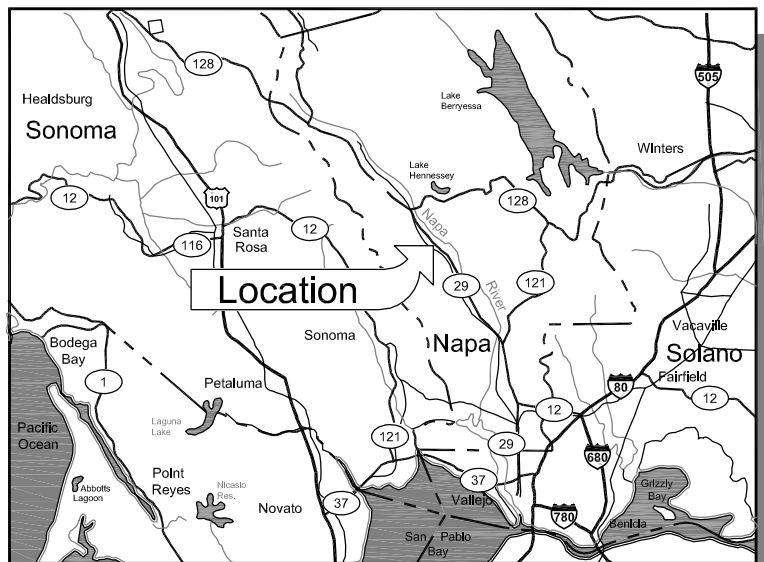


Figure 3
City of Napa
DWYER ROAD PUMP STATION FEASIBILITY -
SELECTED NODES
FOR PRESSURE OBSERVATION





VICINITY MAP

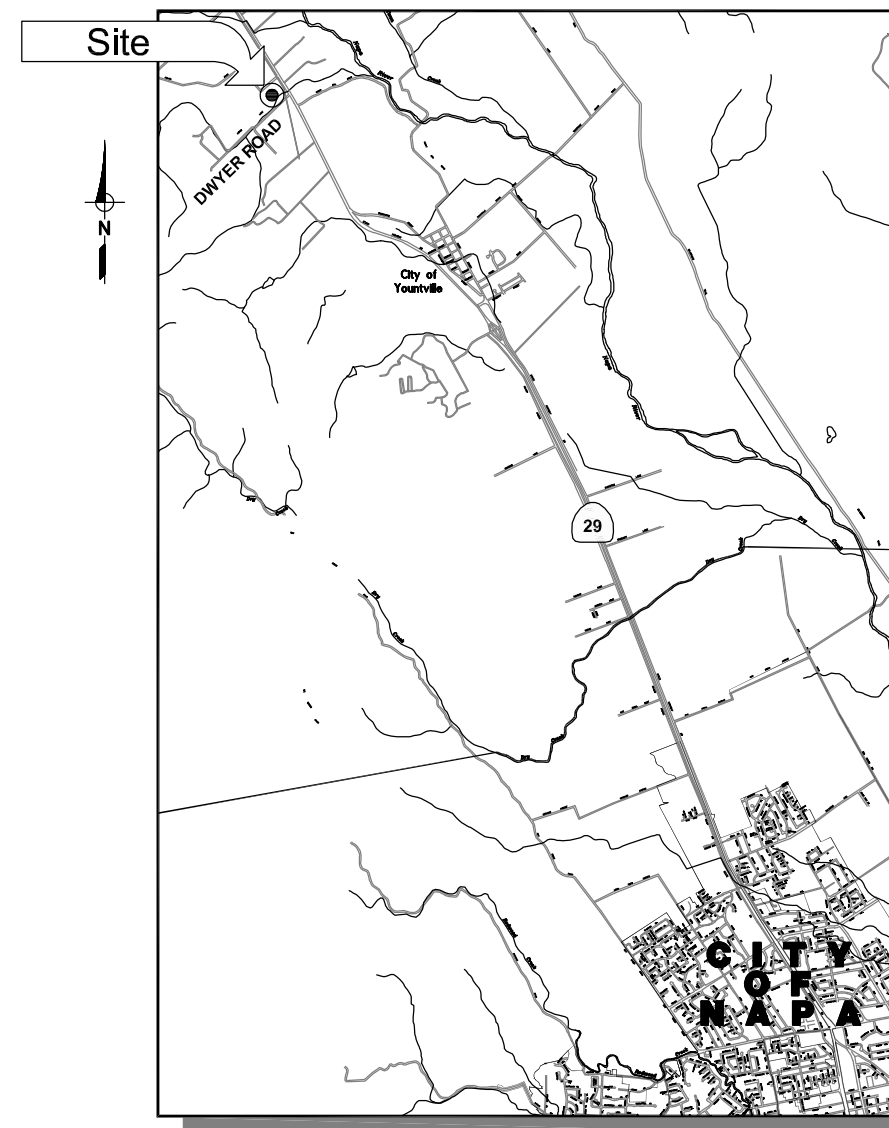


CITY OF NAPA

DWYER ROAD PUMP STATION

SUBMITTED BY: JAMES P. CONNELL Date RCE 63052
PROJECT MANAGER

APPROVED BY: JACQUES R. LaROCHELLE Date RCE 40854
PUBLIC WORKS DIRECTOR
City Of Napa



LOCATION MAP

INDEX OF DRAWINGS

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2	G2	GENERAL SYMBOLS AND ABBREVIATIONS	30	E2	MMS, ATS & MTS ONE LINE DIAGRAM
3	D1	DEMOLITION PLAN	31	E3	METER / MAIN SWITCHBOARD ELEVATION
4	C1	CIVIL PIPING PLAN AND PROFILE	32	E4	ATS, MTS & GENERATOR TERMINATION PANEL ELEVATION
5	C2	CIVIL SITE WORK AND GRADING PLAN	33	E5	POWER DISTRIBUTION SWITCHBOARD ONE LINE DIAGRAM
6	C3	CIVIL DETAILS 1	34	E6	PDSB ELEVATION
7	C4	CIVIL DETAILS 2	35	E7	VFD PNL 111-3 ELEVATION
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9	C6	CIVIL FENCING DETAILS	37	E10	EXAMPLE INTERCONNECT DIAGRAM
10	CP1	CATHODIC PROTECTION DETAILS 1	38	E11	AUTOMATION CONTROL PANEL
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18	A3	ARCHITECTURAL DETAILS & SCHEDULES	46	E30A	PUMP STATION BUILDING ELECTRICAL REFLECTIVE PLAN
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24	S6	STRUCTURAL BUILDING SECTIONS I			
25	S7	STRUCTURAL BUILDING SECTIONS II			
26	S8	STRUCTURAL FOUNDATION SECTIONS			
27	S9	STRUCTURAL FOUNDATION DETAILS			
28	S10	STRUCTURAL ROOF FRAMING SECTIONS & DETAILS			

VOLUME 3-DRAWINGS

6				
5				
4				
3				
2				
1				
NO.	ZONE	REVISIONS	BY	DATE

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AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE : AS SHOWN

DRAWN BY : VLF

DESIGNED BY : JPC

PROJ. MGR. : JPC

APPROVED : _____

DATE : _____

WEST YOST ASSOCIATES
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FAX (530) 756-5991

CITY OF NAPA

City of Napa
Dwyer Road Pump Station

GENERAL
COVER SHEET, DRAWING LIST,
LOCATION PLAN

JOB NUMBER
424-00-11-13

DRAWING NUMBER
G1

SHEET NUMBER
1 OF **51**

REVISION

EXHIBIT G
SUBRECIPIENT PROFILE

LEGEND:

CIVIL

- (N) 3" ASPHALT CONCRETE
- (N) CONCRETE SLAB
- (N) RIP RAP
- (N) RIVER ROCK
- (N) 1"Ø GRAVEL
- (N) MULCH
- (N) HYDROSEED
- (N) GRAVEL LEVEE SURFACING
- (E) GRADE CONTOURS
- (N) SLOPE
- (N) SWALE
- (E) FACILITY
- (N) FACILITY
- (F) FACILITY
- PROPERTY LINE
- × 34.8 (E) SPOT ELEVATION
- × 73.00 (N) SPOT ELEVATION
- N: E: (N) NORTHING & EASTING

CIVIL/MECHANICAL

- (E) PIPELINE
- (N) PIPELINE
- (N) PIPELINE UNDER CONCRETE
- (F) PIPELINE
- (E) FENCE
- (N) FENCE
- (E) ELECTRICAL
- (N) ELECTRICAL
- (E) UNDERGROUND TELEPHONE
- DEMOLISH (E) PIPE
- DEMOLISH (E) STRUCTURE
- (N) PERMANENT BOLLARD
- (N) REMOVABLE BOLLARD
- (E) VALVE BOX

MECHANICAL

- NATURAL GRADE UNDISTURBED SOIL
- AC PAVING SECTION
- CONCRETE SECTION
- AGGREGATE BASE / CRUSHED ROCK
- COMPACTED SOIL
- UNDISTURBED SOIL
- CENTER LINE

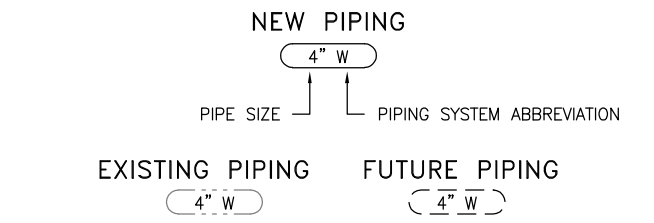
ABBREVIATIONS

AB	AGGREGATE BASE	LF	LINEAL FEET
AC	ASPHALT CONCRETE	MFR	MANUFACTURE
AFF	ABOVE FINISH FLOOR	MAX	MAXIMUM
AL, ALUM	ALUMINUM	MIN	MINIMUM
APPROX	APPROXIMATE	MH	MANHOLE
ARV	AIR RELIEF VALVE	MJ	MECHANICAL JOINT
ASPH	ASPHALT	MON	MONUMENT, MONITORING
BC	BEGIN CURVE	MOV	MOTOR OPERATED VALVE
BF	BLIND FLANGE	N	NEW, NORTH
BV, BVF	BUTTERFLY VALVE	NIC	NOT IN CONTRACT
CITY	CITY OF NAPA	No., #	NUMBER
CL, C	CENTER LINE	NTS	NOT TO SCALE
CLR	CLEAR	OC	ON CENTER
CLSM	CONTROL LOW STRENGTH MATERIAL	OD	OUTSIDE DIAMETER
CO	CLEAN OUT	OF	OVERFLOW
CONC	CONCRETE	OH	OVERHEAD
CMU	CONCRETE MASONRY UNIT	PD	PERFORATED DRAIN
CV	CHECK VALVE	PL, R	PLATE, PROPERTY LINE
CY	CUBIC YARDS	PS	PRESSURE SENSING
D	DRAIN	PSV	PRESSURE RELIEF VALVE
DI	DRAIN INLET	PRV	PRESSURE REDUCING VALVE
DIA, Ø	DIAMETER	PSF	POUNDS PER SQUARE FOOT
DIP	DUCTILE IRON PIPE	PSI	POUNDS PER SQUARE INCH
DWG	DRAWING	PG	PRESSURE GAUGE
EA	EACH	PV	PLUG VALVE
EF	EACH FACE	PVC	POLYVINYL CHLORIDE PIPE
EL	ELEVATION	PVM'T	PAVEMENT
ELEC	ELECTRIC	R	RADIUS
EP	EDGE OF PAVEMENT	RCP	REINFORCED CONC PIPE
EQUIP	EQUIPMENT	REQ'D	REQUIRED
EW	EACH WAY	REV	REVISION
EX. E	EXISTING	RR	RAILROAD
EXP	EXPANSION	R/W	RIGHT OF WAY
FF	FINISHED FLOOR	S	SEWER, SOUTH, SLOPE
FH	FIRE HYDRANT	SCH	SCHEDULE
FCA	FLANGED COUPLING ADAPTER	SDMH	STORM DRAIN MANHOLE SHEET
FCO	FLOOR CLEANOUT	SPD	SUMP PUMP DISCHARGE
FD	FLOOR DRAIN	SQ	SQUARE
FL, F	FLOW LINE, FUEL	SS	SANITARY SEWER
FLG	FLANGE	SSB	STAINLESS STEEL BOLT
FO	FIBER OPTIC	SSMH	SANITARY SEWER MANHOLE
FRP	FIBERGLASS REINFORCED PLASTIC	SST	STAINLESS STEEL
FOC	FACE OF CURB	STA	STATION
FT, '	FEET, FOOT	ST	STREET
GA	GAUGE	STD	STANDARD
GALV	GALVANIZED	STL	STEEL
GB	GRADE BREAK	SVC	SERVICE
GS	GROUND SURFACE	SW	SIDEWALK
GSP	GROUND SURFACE PROFILE	T	TELEPHONE
GV	GATE VALVE	T&B	TOP & BOTTOM
HC	HANDICAPPED	TOC	TOP OF CONCRETE
HP	HIGH POINT IN PVMT, HIGH PRESSURE	TOS	TOP OF STEEL OR TOP OF STRUCTURAL FRAME
HPI	HORIZONTAL POINT OF INFLECTION	TYP	TYPICAL
HORZ	HORIZONTAL	UG	UNDERGROUND
IE	INVERT ELEVATION	UPRR	UNION PACIFIC RAILROAD
IN, "	INCH	V	VENT
INV	INVERT	VAR	VARIOUS
IRR	IRRIGATION	VTR	VENT THROUGH ROOF
LAT	LATERAL	W	POTABLE WATER, WEST
		W/	WITH
		W/O	WITH OUT
		WS	WATER SURFACE
		WWF	WELDED WIRE FABRIC
		WW	WATER VALVE

SECTION & DETAIL DESIGNATIONS

SECTION CUT ON DWG 21
ON DWG 23 THIS SECTION IS IDENTIFIED AS:
DETAILS ARE CROSS REFERENCED IN A SIMILAR MANNER, EXCEPT THAT DETAILS ARE IDENTIFIED BY NUMBER RATHER THAN LETTER

PIPING DESIGNATIONS



PIPING SYSTEM ABBREVIATIONS

D	DRAIN
W	WATER
OF	OVERFLOW
V	VENT

GENERAL NOTES

1. BENCHMARK: NAPA COUNTY BM#623-C. ELEVATION 148.97' (NAVD 88 PER CORPSCON 6 CONVERSION). CONVERSION: +2.72'. PUBLISHED VALUE: 146.25' (NGVD 1929).
2. PROVIDE TEMPORARY FENCING AND EROSION CONTROLS AT IDENTIFIED CONSTRUCTION EASEMENT LIMITS. MAINTAIN FENCING AND EROSION CONTROLS THROUGHOUT CONSTRUCTION IN ACCORDANCE WITH SPECIFICATIONS AND PERMITS. RESTORE DISTURBED AREAS TO ORIGINAL GRADE AND RE-VEGETATE WITH NATIVE SPECIES.
3. ALL EXISTING WATER, SEWER, AND GAS UTILITY LINES WITHIN CONSTRUCTION EASEMENT SHALL BE LOCATED PRIOR TO CONSTRUCTION. RELOCATION OF EXISTING UTILITIES SHALL BE COORDINATED WITH UTILITY PROVIDER.
4. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) 800-227-2600 A MINIMUM OF TWO WORKING DAYS PRIOR TO ANY EXCAVATION.
5. LAND AVAILABLE TO THE CONTRACTOR IS INDICATED ON THE DRAWINGS. ANY ADDITIONAL LAND REQUIRED FOR STAGING, STORAGE, ETC. SHALL BE ACQUIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
6. UNLESS OTHERWISE INDICATED, CONTRACTOR SHALL ASSUME ALL EXISTING WATER FACILITIES (EXCEPT 36-INCH DIAMETER WELDED STEEL PIPELINE) ARE NOT RESTRAINED. CITY TO PROVIDE THRUST RESTRAINT FOR EXISTING 36-INCH DIAMETER WELDED STEEL PIPELINE.
7. REFER TO SPECIFICATION SECTION 01140 FOR DEMOLITION AND CONSTRUCTION PHASING CONSTRAINTS AND SYSTEM SHUTDOWN LIMITATIONS AND REQUIREMENTS.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY SURROUNDING DAMAGE DONE DURING CONSTRUCTION. VIDEO OF THE WORK SITE AND SURROUNDING AREAS SHALL BE TAKEN PRIOR TO MOBILIZATION AND PROVIDED TO OWNER.

LEGEND: PIPING

	FLANGED JOINT		FLANGED COUPLING ADAPTER		ELBOW UP
	PLAIN OR GROOVED END MECHANICAL COUPLING		RESTRAINED FLANGED COUPLING ADAPTER		ELBOW DOWN
	PUSH ON, MECHANICAL JOINT		UNION		TEE UP
	WELDED JOINT		ELASTOMER & FABRIC EXPANSION JOINT		TEE DOWN
	SLEEVE TYPE MECHANICAL COUPLING		EXPANSION JOINT (SEE SPECS FOR TYPE)		LATERAL UP
	RESTRAINED SLEEVE TYPE MECHANICAL COUPLING		FLEXIBLE METAL HOSE		LATERAL DOWN
	THREE WAY VALVE		CHECK VALVE		REDUCER
	GATE VALVE (NORMALLY OPEN)		BALL VALVE (NORMALLY CLOSED)		STRAINER
	GATE VALVE (NORMALLY CLOSED)		BUTTERFLY VALVE		IN-LINE, SPRING LOADED RELIEF VALVE
	PLUG VALVE (NORMALLY OPEN)		GLOBE VALVE		PRESSURE REGULATING VALVE
	PLUG VALVE (NORMALLY CLOSED)		DIAPHRAGM VALVE		BACK PRESSURE REGULATING VALVE
	BALL VALVE (NORMALLY OPEN)		ANGLE VALVE		SOLENOID VALVE
	BALL VALVE (NORMALLY CLOSED)		PINCH VALVE		DIAPHRAGM OPERATED VALVE
	NEEDLE VALVE		VACUUM RELIEF VALVE		BACK FLOW PREVENTER
	DOUBLE LEAF CHECK VALVE		PRESSURE RELIEF VALVE		

NO.	ZONE	REVISIONS	BY	DATE

THIS LINE IS 1 INCH AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE : AS SHOWN

DRAWN BY : VLF

DESIGNED BY : JPC

PROJ. MGR. : JPC

APPROVED : _____

DATE : _____

WEST YOST ASSOCIATES
Consulting Engineers

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Suite 100
Davis, California 95618
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FAX (530) 756-5991

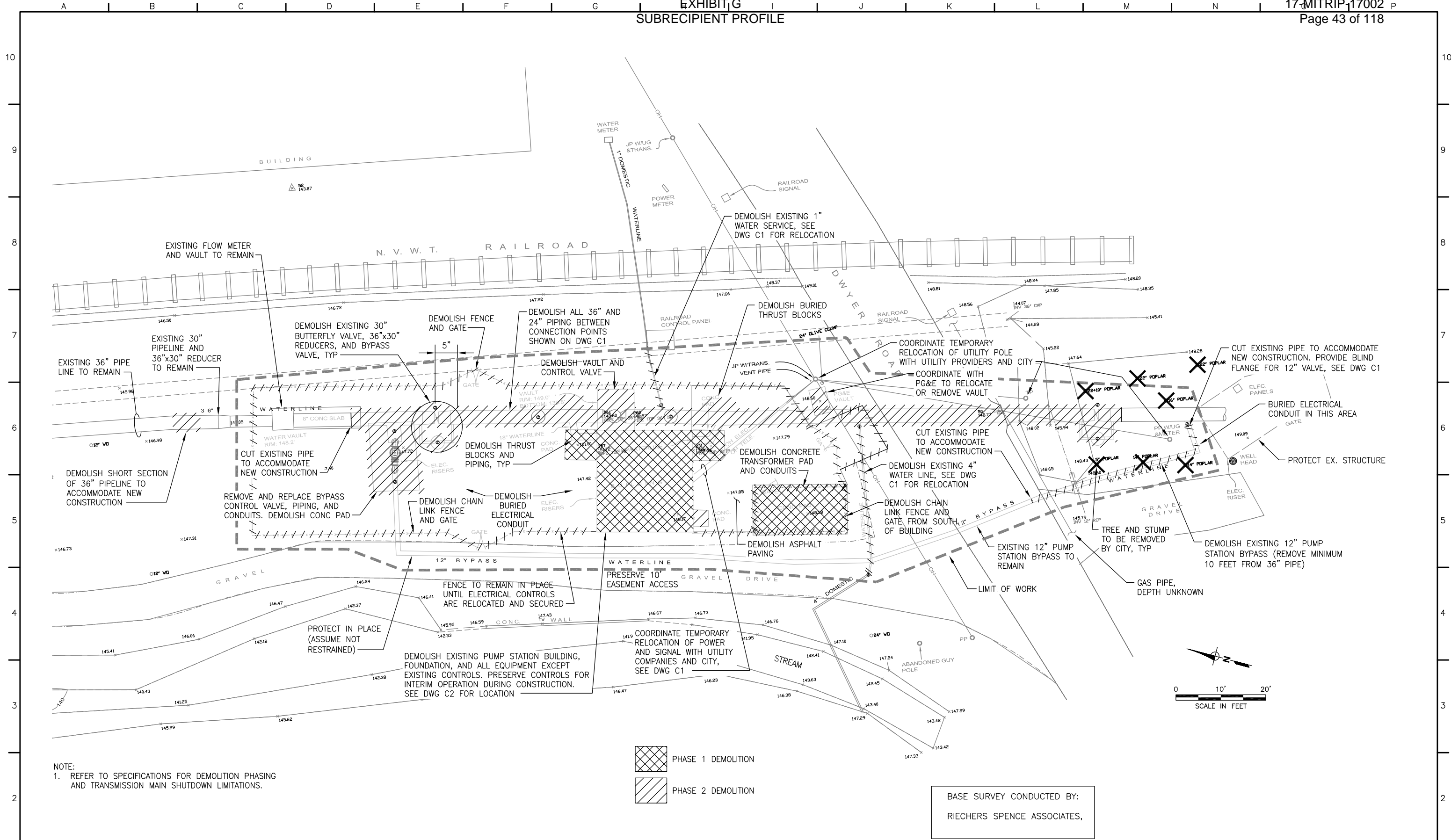


City of Napa
Dwyer Road Pump Station

GENERAL
SYMBOLS AND ABBREVIATIONS

JOB NUMBER 424-00-11-13
DRAWING NUMBER G2
SHEET NUMBER 2 OF 51
REVISION

EXHIBIT G
 SUBRECIPIENT PROFILE



NOTE:
 1. REFER TO SPECIFICATIONS FOR DEMOLITION PHASING AND TRANSMISSION MAIN SHUTDOWN LIMITATIONS.

PHASE 1 DEMOLITION
 PHASE 2 DEMOLITION

BASE SURVEY CONDUCTED BY:
 RIECHERS SPENCE ASSOCIATES,

6					
5					
4					
3					
2					
1					
NO.	ZONE	REVISIONS	BY	DATE	

THIS LINE IS 1 INCH
 AT FULL SCALE
 IF NOT SCALE ACCORDINGLY

SCALE : AS SHOWN

DRAWN BY : SMB
 DESIGNED BY : JPC
 PROJ. MGR. : JPC

APPROVED : _____
 DATE : _____

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 Consulting Engineers

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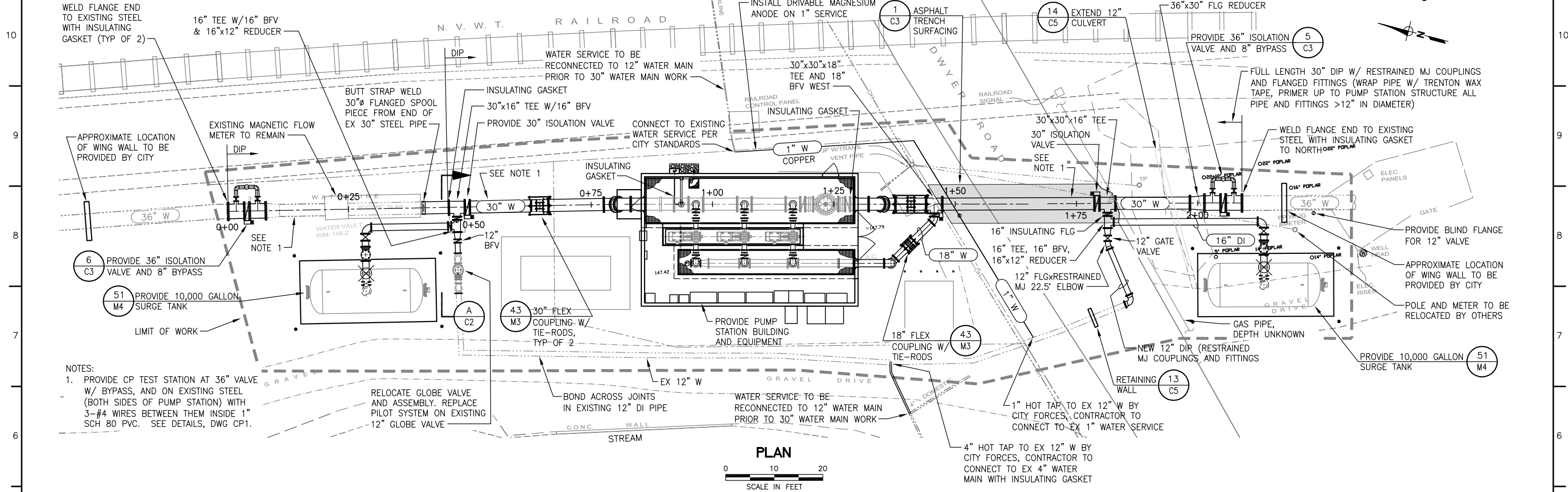
CITY OF NAPA

City of Napa
Dwyer Road Pump Station

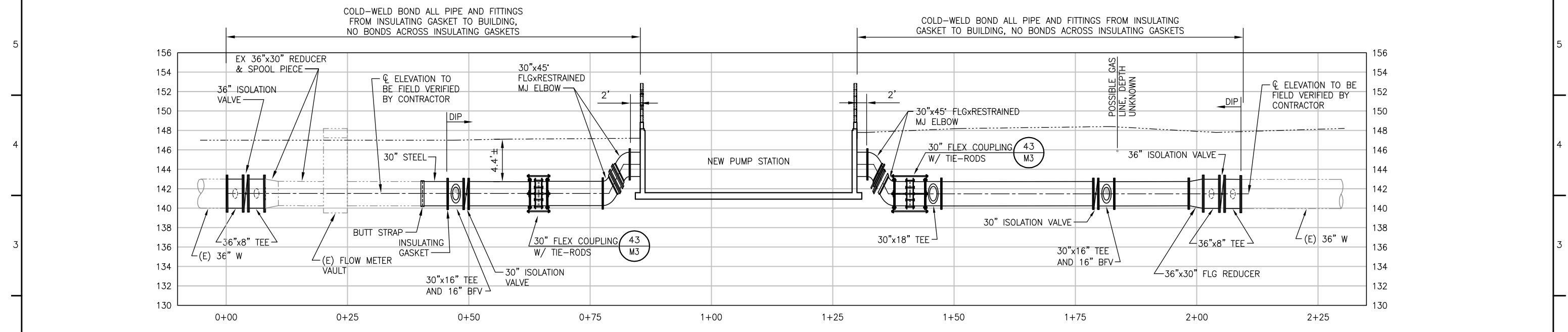
DEMOLITION
 PLAN

JOB NUMBER 424-00-11-13
DRAWING NUMBER D1
SHEET NUMBER 3 OF 51
REVISION

EXHIBIT G
SUBRECIPIENT PROFILE



PLAN
SCALE IN FEET
0 10 20



PROFILE
HOR. SCALE: 1"=10'
VER. SCALE: 1"=5'

BASE SURVEY CONDUCTED BY:
RIECHERS SPENCE ASSOCIATES,

6					
5					
4					
3					
2					
1					
NO.	ZONE	REVISIONS	BY	DATE	

THIS LINE IS 1 INCH
AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE: AS SHOWN

DRAWN BY: SMB
DESIGNED BY: JPC
PROJ. MGR.: JPC

APPROVED: _____
DATE: _____

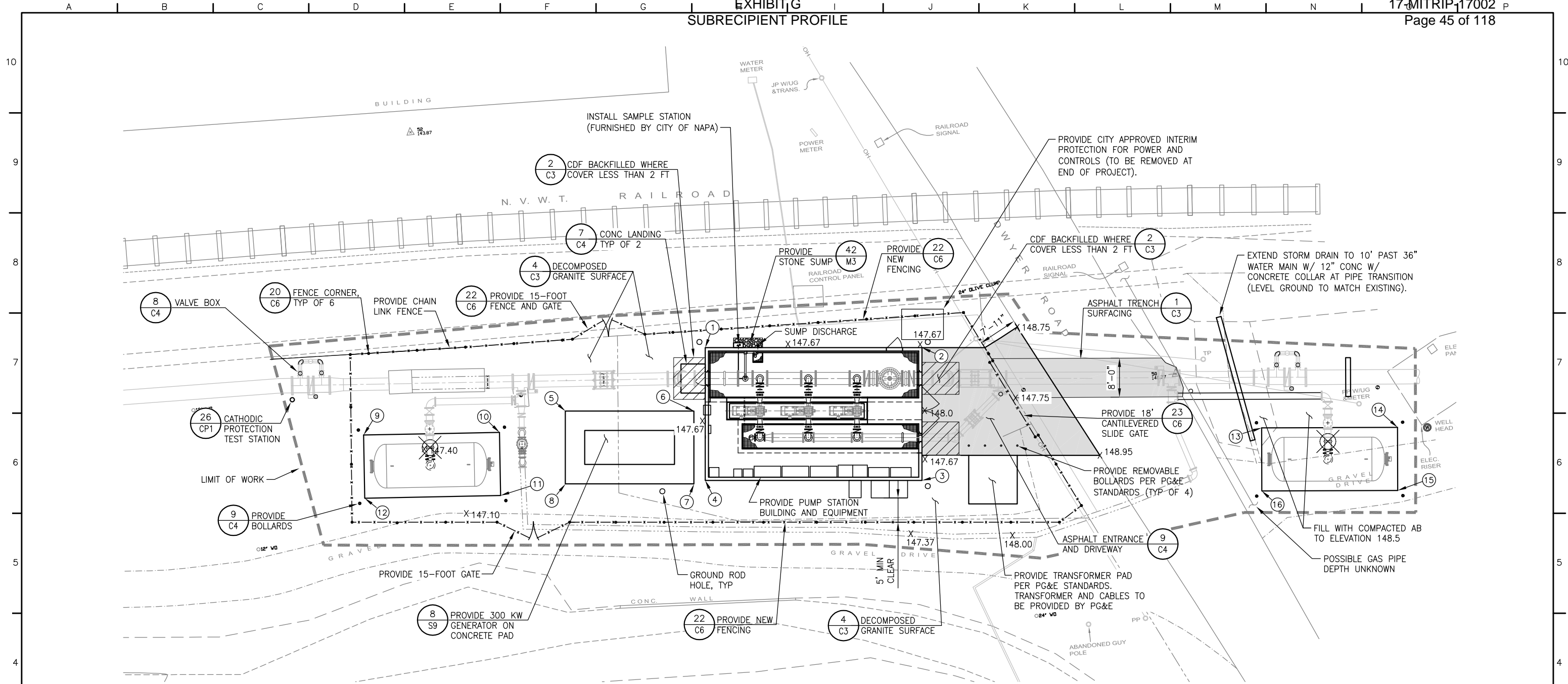
WEST YOST ASSOCIATES
Consulting Engineers

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Suite 100
Davis, California 95618
(530) 756-5905
FAX (530) 756-5991

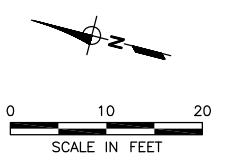
CITY OF NAPA

City of Napa
Dwyer Road Pump Station
CIVIL
PIPING PLAN AND PROFILE

JOB NUMBER 424-00-11-13
DRAWING NUMBER C1
SHEET NUMBER 4 OF 51
REVISION



CORNER	NORTHING	EASTING	CORNER	NORTHING	EASTING
①	N 1916259.37	E 6449410.38	⑨	N 1916322.95	E 6449375.19
②	N 1916216.15	E 6449421.65	⑩	N 1916296.00	E 6449382.78
③	N 1916209.25	E 6449395.20	⑪	N 1916292.48	E 6449370.27
④	N 1916252.47	E 6449383.93	⑫	N 1916319.43	E 6449362.68
⑤	N 1916283.98	E 6449390.48	⑬	N 1916144.27	E 6449423.34
⑥	N 1916258.34	E 6449397.17	⑭	N 1916117.20	E 6449430.50
⑦	N 1916254.55	E 6449382.65	⑮	N 1916113.88	E 6449417.93
⑧	N 1916280.19	E 6449375.97	⑯	N 1916140.95	E 6449410.77



BASE SURVEY CONDUCTED BY:
RIECHERS SPENCE ASSOCIATES,
JANUARY 2012

NO.	ZONE	REVISIONS	BY	DATE
1				

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SCALE : AS SHOWN
DRAWN BY : SMB
DESIGNED BY : JPC
PROJ. MGR. : JPC

APPROVED : _____
DATE : _____

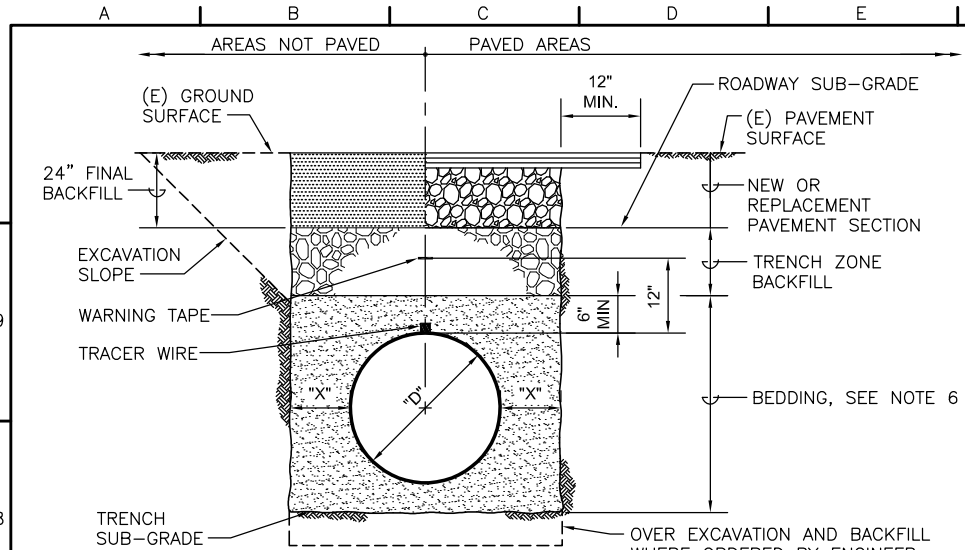
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Consulting Engineers
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Suite 100
Davis, California 95618
(530) 756-5905
FAX (530) 756-5991

CITY OF NAPA

City of Napa
Dwyer Road Pump Station
CIVIL
SITE WORK AND GRADING PLAN

JOB NUMBER 424-00-11-13
DRAWING NUMBER C2
SHEET NUMBER 5 OF 51
REVISION

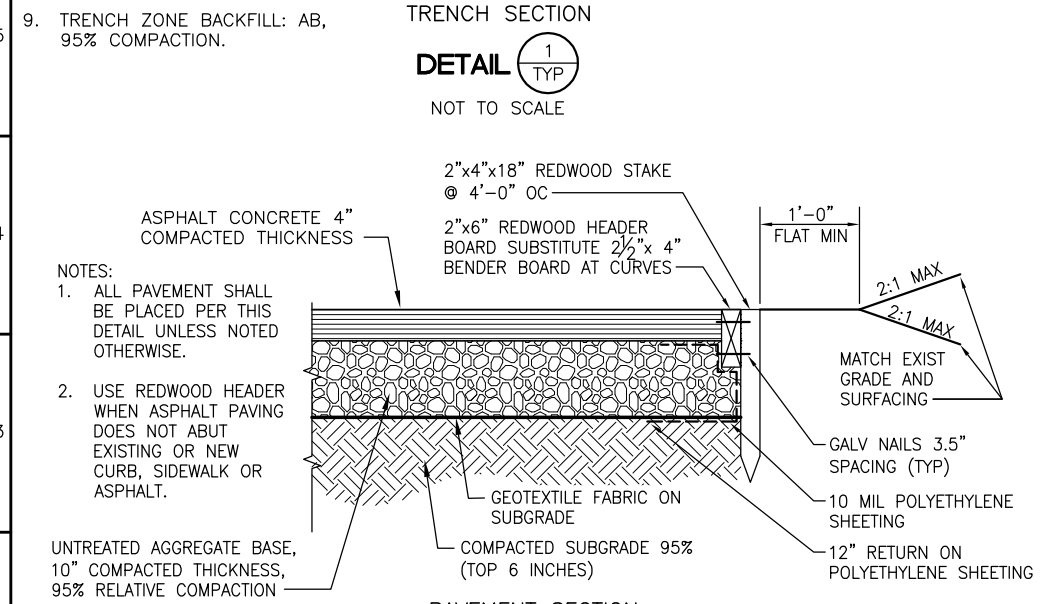
EXHIBIT G



- NOTES:
1. PIPELINES SHALL BE INSTALLED PER THIS TRENCH SECTION DETAIL UNLESS OTHERWISE SHOWN OR SPECIFIED.
 2. BEDDING ZONE MATERIALS: SAND, 90% COMPACTION.
 3. EMBEDMENT ZONE MATERIALS:
A. PIPE DIA. 24-INCH AND SMALLER: SAND, 90% COMPACTION.
B. PIPE LARGER THAN 24-INCH DIA: SAND, 90% COMPACTION.
 4. EXCAVATION SLOPES SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY, ACTUAL TRENCH SIDEWALLS MAY BE VERTICAL, SLOPES, OR A COMBINATION THEREOF DEPENDING ON THE SOIL AND EXCAVATION CONDITIONS, CONSTRUCTION METHODS, AND SAFETY REGULATIONS.
 5. CLEARANCE "X" SHALL NOT BE LESS THAN 18 INCHES FOR PIPE SIZES 36" AND GREATER IN DIA. AND 12 INCHES FOR PIPE SIZES SMALLER THAN 36".
 6. BEDDING UNDER PIPE BELL SHALL NOT BE LESS THAN 12 INCHES FOR PIPE SIZES 36" AND GREATER AND 6 INCHES FOR PIPE SIZES SMALLER THAN 36". WHEN COVER IS LESS THAN 2 FEET, SEE DETAIL 2 THIS SHEET.
 7. DIMENSION "D" IS THE PIPE OUTSIDE DIAMETER.
 8. INCREASE CLEARANCE "X" TO 24" AND BEDDING DEPTH TO 12" MIN. FOR TRENCHES IN ROCK EXCAVATION.
 9. TRENCH ZONE BACKFILL: AB, 95% COMPACTION.

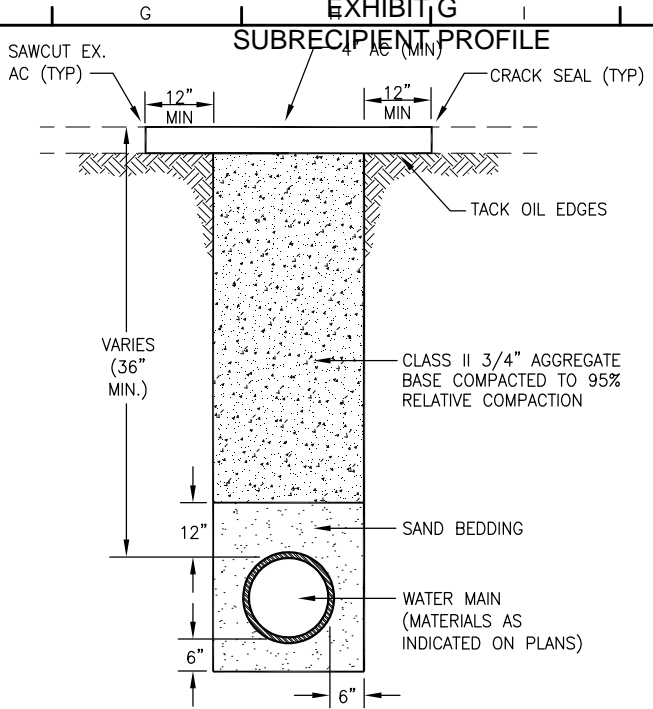
TRENCH SECTION
DETAIL 1 TYP

NOT TO SCALE



PAVEMENT SECTION
DETAIL 3 TYP

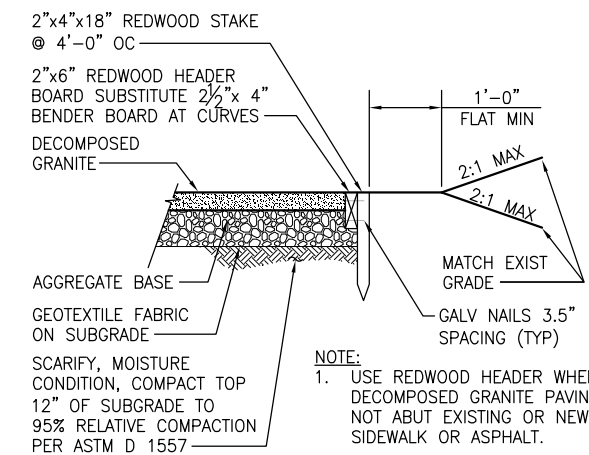
NOT TO SCALE



- NOTES:
1. WHERE COVER IS LESS THAN 2-FT OVER WATER MAIN, CONTRACTOR SHALL BACKFILL WITH CONTROLLED DENSITY FILL (CDF) WITH A MINIMUM OF 3-INCH SAND COVER OVER TOP OF PIPE.
 2. FOR WATER MAINS 14-IN IN DIAMETER AND LARGER, ALL METALLIC PIPE AND ASSOCIATED FITTINGS DIRECTLY CONNECTED TO THE PIPE SHALL BE WRAPPED WITH WAX TAPE CATHODIC PROTECTION UP TO AND 6-INCHES (MIN) PAST ISOLATION GASKETS/FITTINGS. WAX TAPE CATHODIC PROTECTION NOT REQUIRED IF FACILITIES ARE WITHIN PUMP STATION BUILDING.
 3. FOR WATER MAINS AND LATERALS 12-IN IN DIAMETER AND SMALLER, ALL PIPE AND ASSOCIATED FITTINGS ELECTRICALLY CONTINUOUS TO 14-IN DIAMETER AND LARGER WATER MAINS SHALL BE WRAPPED WITH WAX TAPE CATHODIC PROTECTION. WHERE 12-IN DIAMETER AND SMALLER FACILITIES ARE ELECTRICALLY DISCONTINUOUS TO 14-IN DIAMETER AND LARGER WATER MAINS SHALL BE WRAPPED WITH 8-MIL POLYETHYLENE WRAP UNLESS OTHERWISE IDENTIFIED WITHIN THE DETAILS OF THESE PLANS AND SPECIFICATIONS.

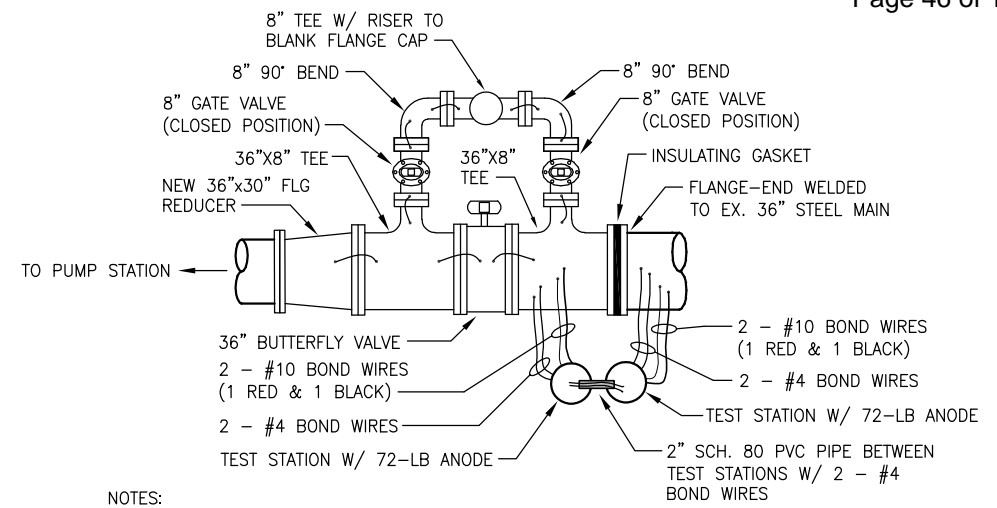
TYPICAL WATER TRENCH
DETAIL 2 TYP

NOT TO SCALE



DECOMPOSED GRANITE PAVING
DETAIL 4 TYP

NOT TO SCALE

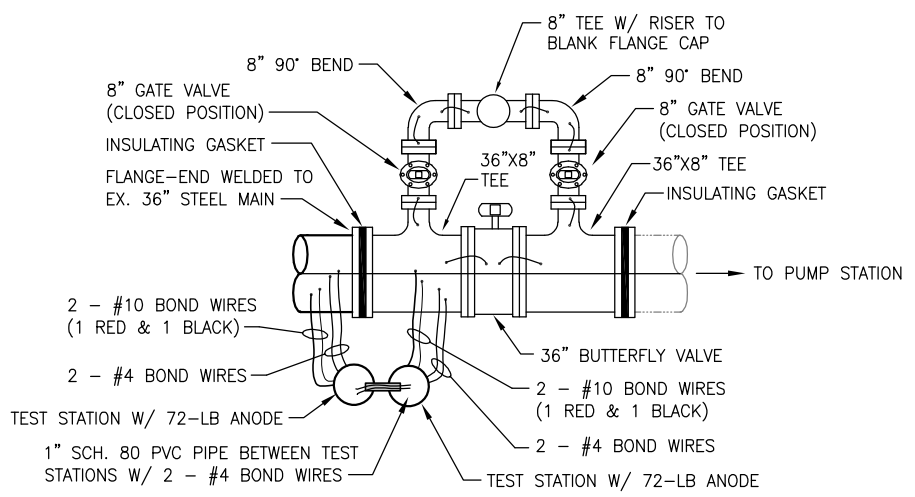


- NOTES:
1. INSTALL CONCRETE PAD ENCOMPASSING GATE VALVES, BUTTERFLY VALVE, RISER, AND ANODE TEST STATIONS. (SEE "CONCRETE PAD DETAIL")
 2. ALL PIPE AND FITTINGS SHALL BE WRAPPED WITH TRENTON WAX-TAPE NO. 1 (BROWN) WITH TRENTON WAX-TAPE PRIMER (WHITE).

36" VALVE WITH 8" BYPASS (SOUTH)

DETAIL 5 C1

NOT TO SCALE



- NOTES:
1. INSTALL CONCRETE PAD ENCOMPASSING GATE VALVES, BUTTERFLY VALVE, RISER, AND ANODE TEST STATIONS. (SEE "CONCRETE PAD DETAIL")
 2. ALL PIPE AND FITTINGS SHALL BE WRAPPED WITH TRENTON WAX-TAPE NO. 1 (BROWN) WITH TRENTON WAX-TAPE PRIMER (WHITE).

36" VALVE WITH 8" BYPASS (NORTH)

DETAIL 6 C1

NOT TO SCALE

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NO.	ZONE	REVISIONS	BY	DATE	

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PROJ. MGR. : JPC

APPROVED : _____

DATE : _____

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FAX (530) 756-5991

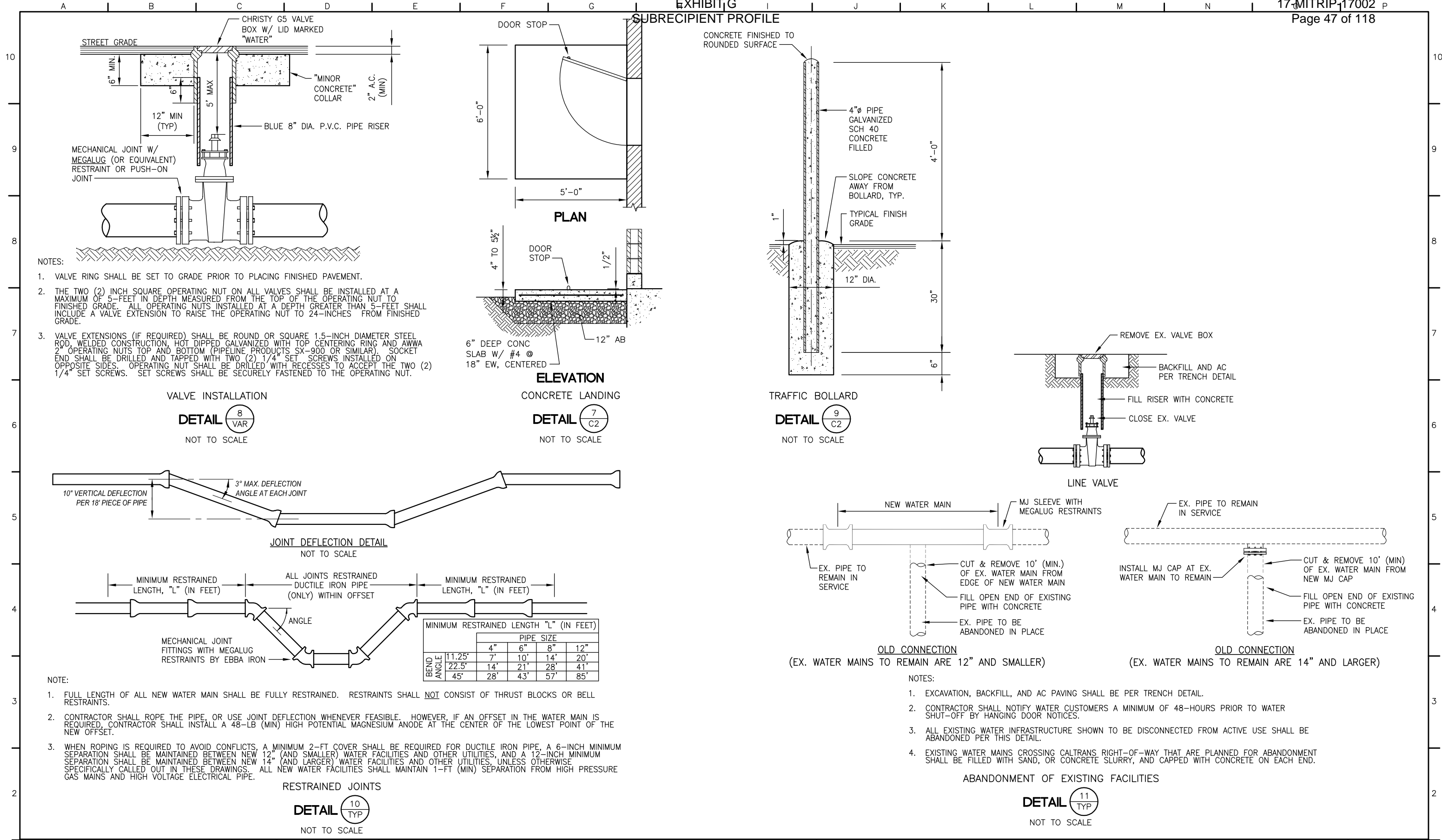
CITY OF NAPA

City of Napa
Dwyer Road Pump Station

CIVIL
DETAILS 1

JOB NUMBER 424-00-11-13
DRAWING NUMBER C3
SHEET NUMBER 6 OF 51
REVISION

EXHIBIT G



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NO.	ZONE	REVISIONS	BY	DATE	

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SCALE : AS SHOWN

DRAWN BY : SMB

DESIGNED BY : JPC

PROJ. MGR. : JPC

APPROVED : _____

DATE : _____

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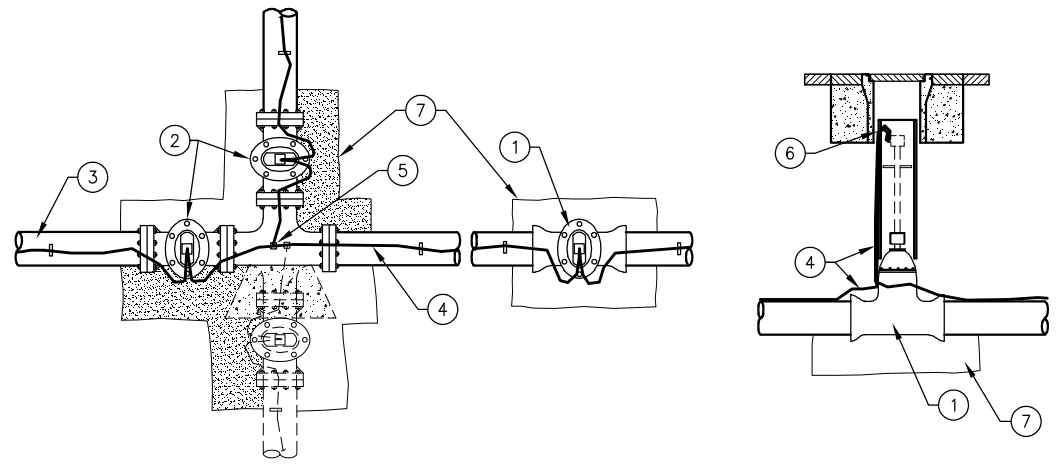
CITY OF NAPA

City of Napa
Dwyer Road Pump Station

CIVIL
DETAILS 2

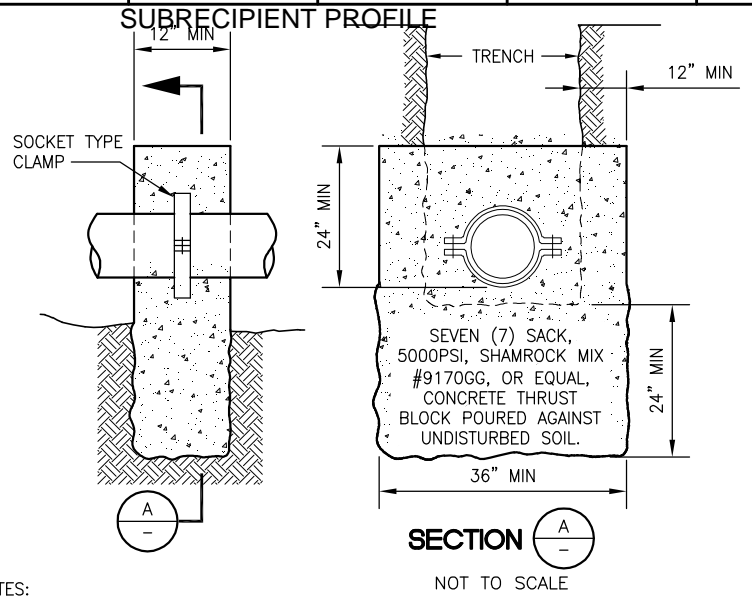
JOB NUMBER 424-00-11-13
DRAWING NUMBER C4
SHEET NUMBER 7 OF 51
REVISION

EXHIBIT G

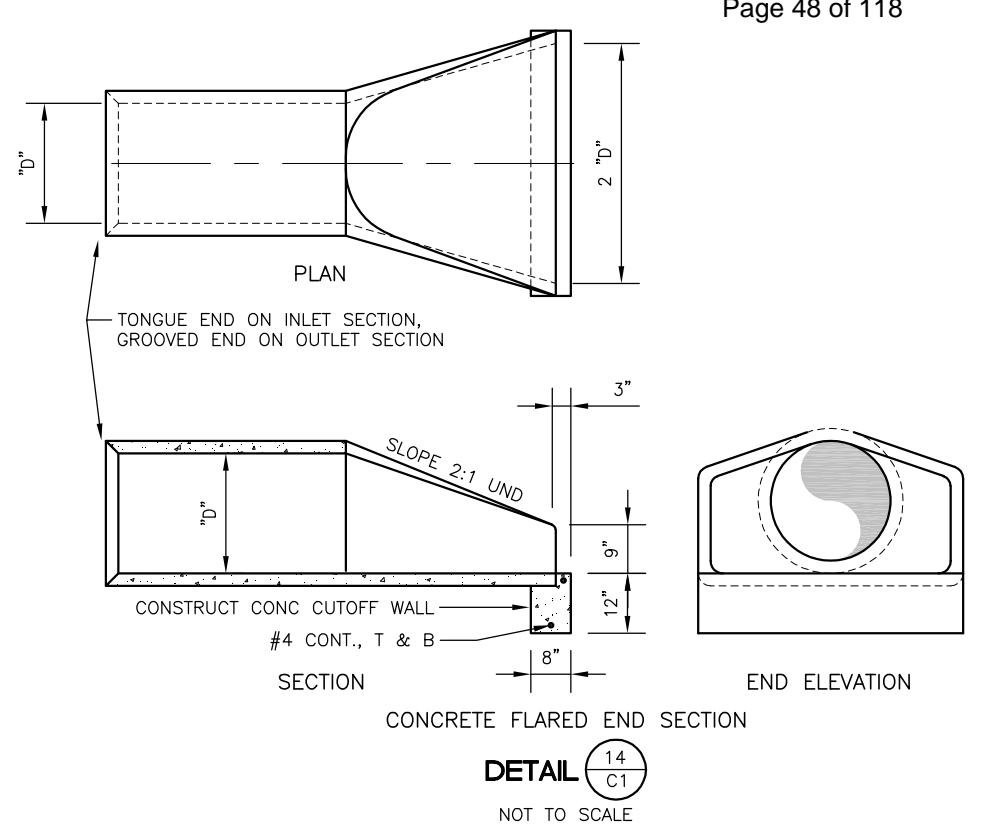


- ① HUB & SPIGOT RESILIENT WEDGE GATE VALVE WITH POLYETHYLENE WRAP.
- ② FLANGED x MECHANICAL JOINT RESILIENT WEDGE GATE VALVES WITH POLYETHYLENE WRAP.
- ③ PROPOSED WATER MAIN.
- ④ TRACER WIRE SHALL BE REQUIRED ON ALL NON-FERROUS WATER MAINS AND SERVICES. TRACER WIRE SHALL BE SOLID COPPER WIRE WITH U.S.E. RATED INSULATION AND MINIMUM SIZE OF AWG #10. TRACER WIRE SHALL BE TAPED TO THE TOP OF THE PIPE AT 5-FT INTERVALS, AND AT ALL CROSSES, TEES AND ELBOWS. WHEN TAPING TRACER WIRE TO PIPE, WRAP THE TAPE ONCE AROUND THE TRACER WIRE BEFORE SECURING IT TO THE PIPE. AFTER BACKFILL AND COMPACTION, BUT PRIOR TO PAVING, CONTINUITY TESTING OF THE TRACER WIRE WILL BE REQUIRED. ANY DETECTED DAMAGES TO THE TRACER WIRE SHALL BE REPAIRED BEFORE PAVING WILL BE ALLOWED.
- ⑤ TRACER WIRES SHALL BE INTERCONNECTED AT PIPE TEES, PIPE CROSSES AND PIPE SERVICES. SPLICES SHALL BE "KURNEY" (SPLIT BOLT) OR "KUPLETAP". INSTALLATION TAPE SHALL BE VINYL, ELECTRICAL WITH TWO (2) COATS OF "SCOTCH KOTE".
- ⑥ TRACER WIRE SHALL BE PLACED OUTSIDE OF THE VALVE RISER PIPE AND SHALL BE PLACED IN THE NOTCH AT THE TOP OF THE VALVE RISER PIPE AS SHOWN ON THE STANDARD DETAILS.
- ⑦ SAND BEDDING AROUND PIPE, THEN BACKFILLED WITH 3/4" CRUSHED ROCK.

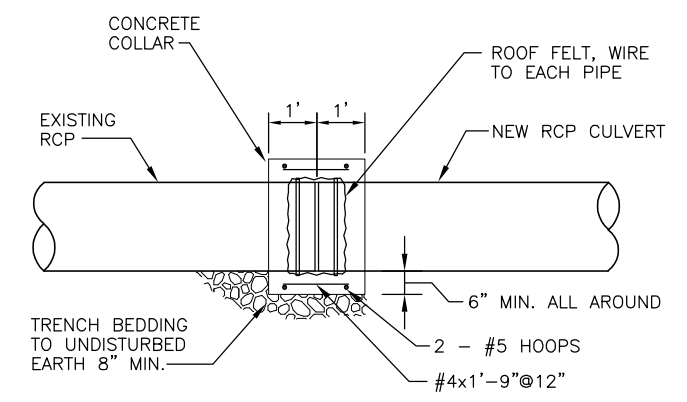
TRACER WIRE INSTALLATION
DETAIL 12
 TYP
 NOT TO SCALE



- NOTES:
1. WINGWALLS SHALL BE INSTALLED 5-FT (TYP) FROM THE NEW WATER MAIN CONNECTION ON THE EX. WATER MAIN. NO JOINTS SHALL EXIST BETWEEN THE WINGWALL AND THE NEW CONNECTION POINT.
 2. WINGWALLS SHALL BE INSTALLED ON EXISTING WATER MAINS PRIOR TO OR DURING INSTALLATION OF NEW WATER MAIN TO AVOID DELAYS FOR TIE-IN WORK.
 3. CONCRETE FOR WINGWALLS SHALL HAVE A MINIMUM CURE TIME OF 7 DAYS PRIOR TO TYING IN NEW WATER MAIN.
- RETAINING WALL
DETAIL 13
 C1
 NOT TO SCALE



CONCRETE FLARED END SECTION
DETAIL 14
 C1
 NOT TO SCALE



RCP CONNECTION DETAIL
DETAIL 15
 NOT TO SCALE

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NO.	ZONE	REVISIONS	BY	DATE	

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PROJ. MGR. : JPC

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DATE : _____

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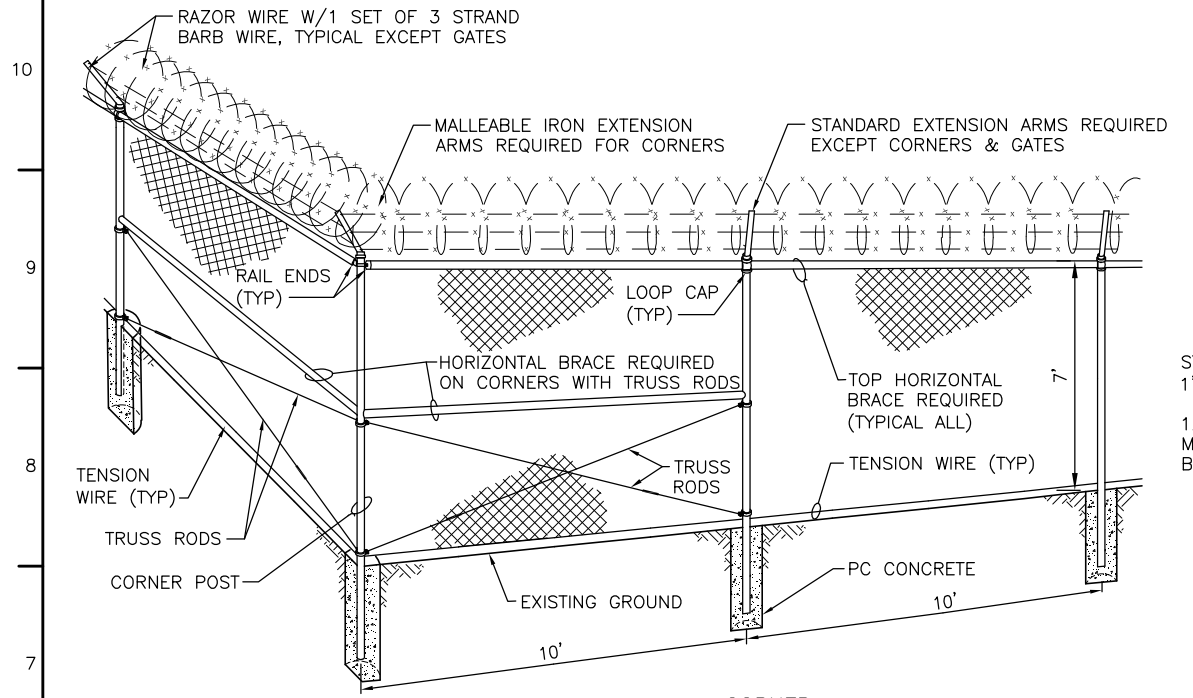
CITY OF NAPA

City of Napa
 Dwyer Road Pump Station

CIVIL
 DETAILS 3

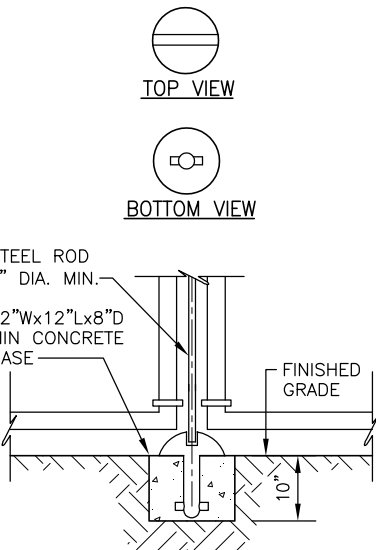
JOB NUMBER 424-00-11-13
DRAWING NUMBER C5
SHEET NUMBER 8 OF 51
REVISION

EXHIBIT G
SUBRECIPIENT PROFILE

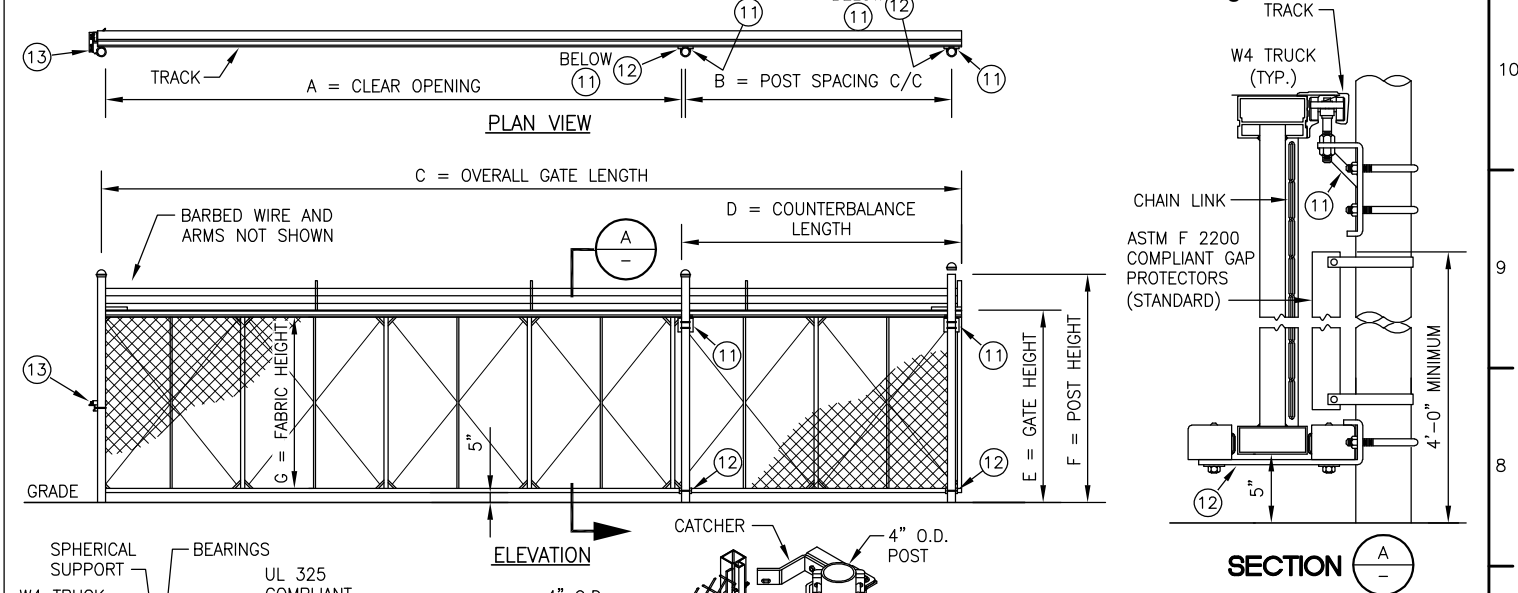


CORNER
DETAIL 20
C2
NOT TO SCALE

- NOTES:
1. GATE POST SIZE SHALL BE 5"Ø
2. LINE POST SIZE SHALL BE 2"Ø
3. END, LATCH AND CORNER POST SIZE SHALL BE 2.5"Ø
4. HORIZONTAL BRACE AND TOP RAIL SIZE SHALL BE 1 1/4"Ø
5. GATE KEEPERS ARE REQUIRED SEE SPECIFICATIONS
6. TOP RAIL SHALL BE 1 1/4"Ø



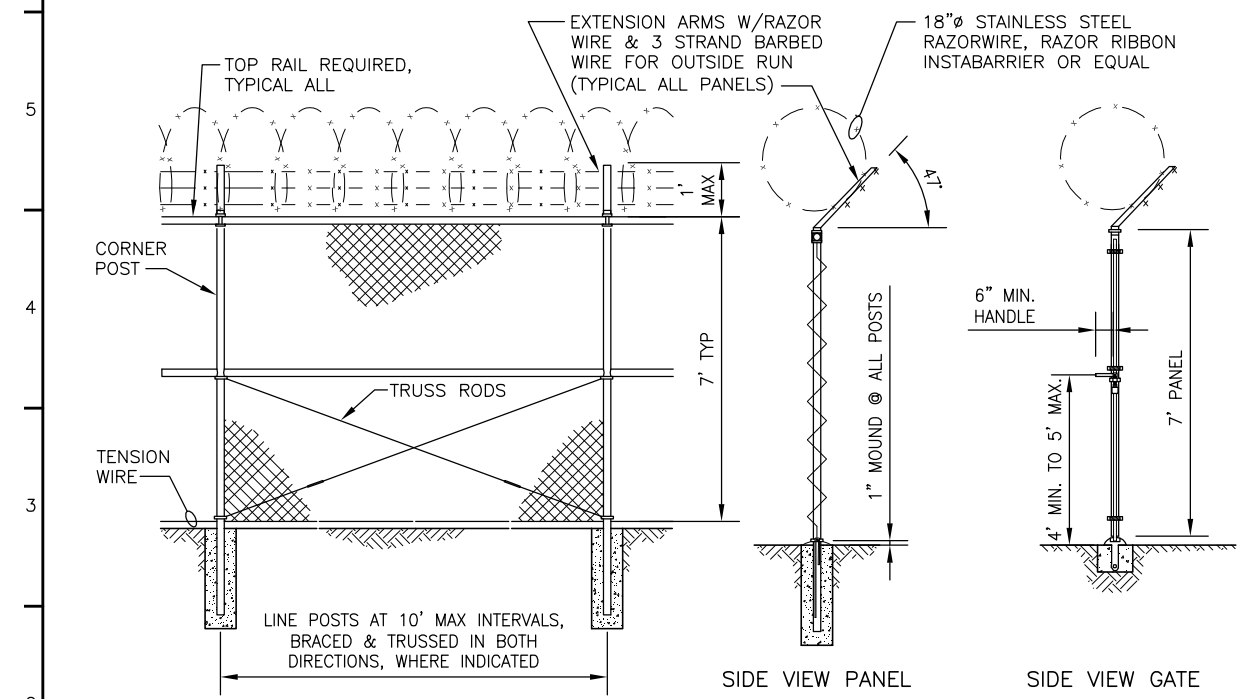
GATE ANTI-SWING FOOTING
DETAIL 21
NOT TO SCALE



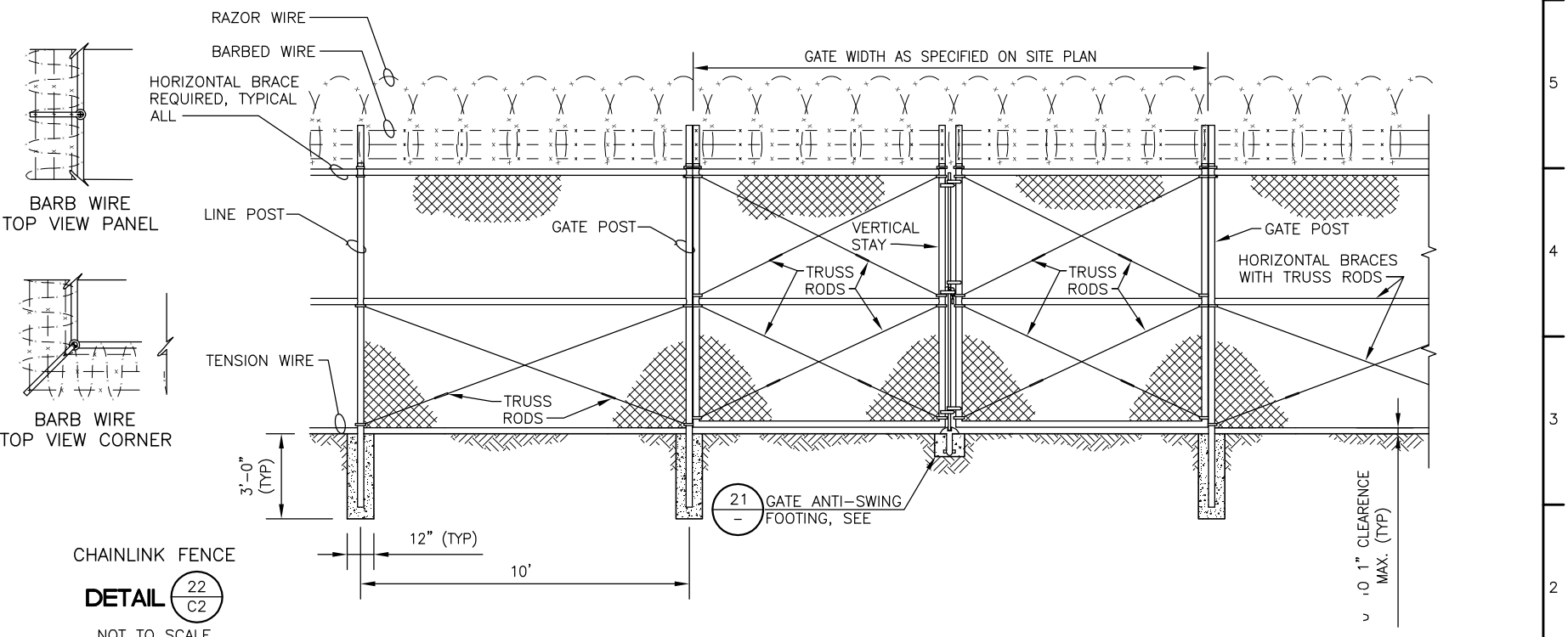
CRITICAL DIMENSION CHART

MARK	DESCRIPTION	FORMULA	DIM.
A	CLEAR OPENING	A	18'
B	COUNTERBALANCE POST SPACING C/C	(A/2)-11"	8'-1"
C	OVERALL GATE LENGTH	A x 1.5	27'
D	COUNTERBALANCE LENGTH	A x 0.5	9'
E	NOMINAL GATE HEIGHT	E	8'
F	POST HEIGHT (W BARB ARMS)	E + 1'-6"	9'-6"
G	FABRIC HEIGHT	E - 1'-0"	7'

NOTE:
1. ALL FITTINGS STANDARDLY PROVIDED FOR 4" O.D. POSTS.



CHAINLINK FENCE
DETAIL 22
C2
NOT TO SCALE



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DESIGNED BY: JPC
PROJ. MGR.: JPC

APPROVED: _____
DATE: _____

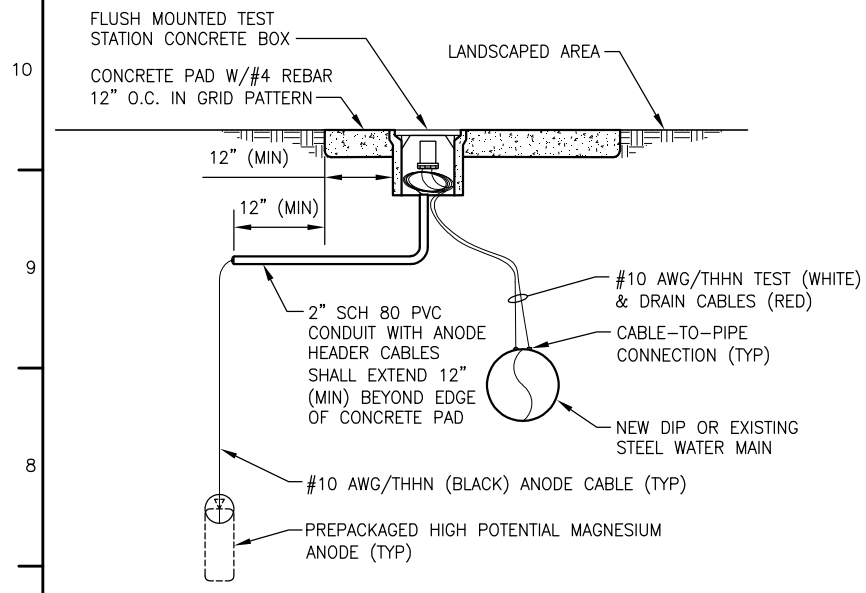
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CITY OF NAPA

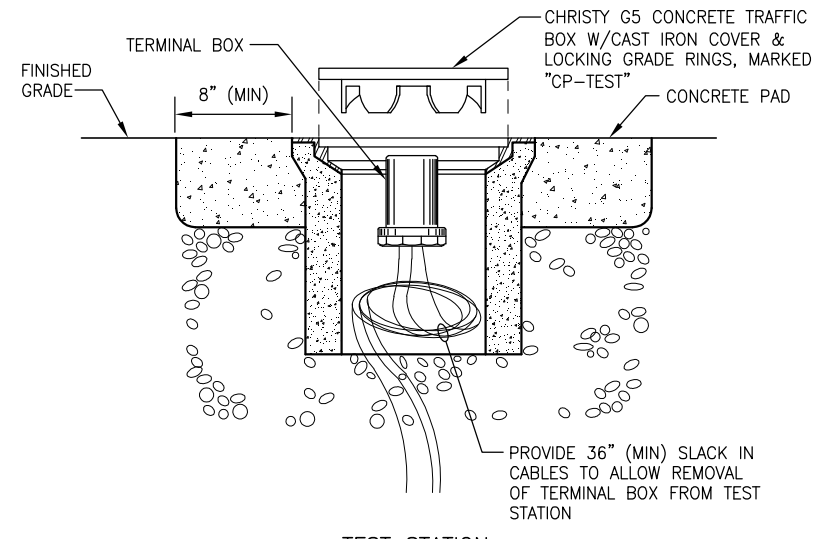
City of Napa
Dwyer Road Pump Station
CIVIL
FENCING DETAILS

JOB NUMBER 242-00-11-13
DRAWING NUMBER C6
SHEET NUMBER 9 OF 51
REVISION

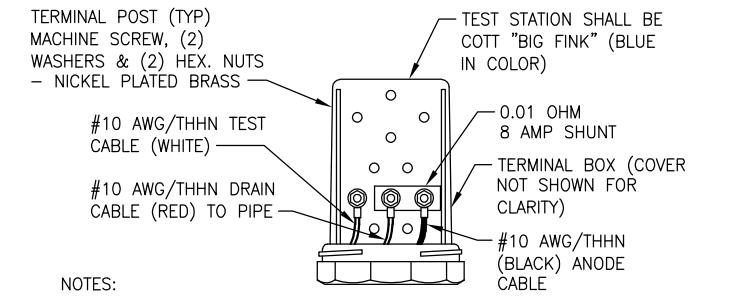
EXHIBIT G
SUBRECIPIENT PROFILE



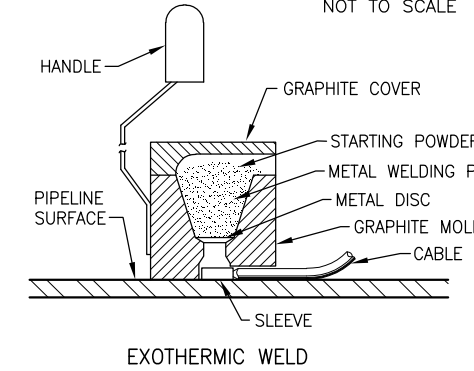
TEST STATION INSTALLATION
DETAIL 25
NOT TO SCALE



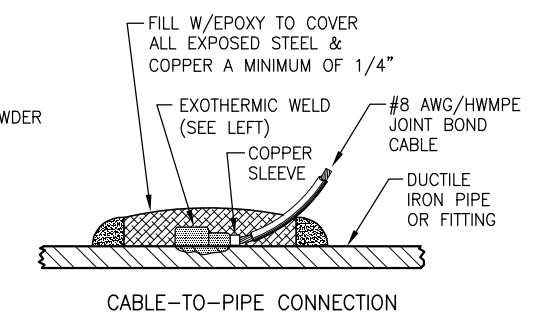
TEST STATION
DETAIL 26
NOT TO SCALE



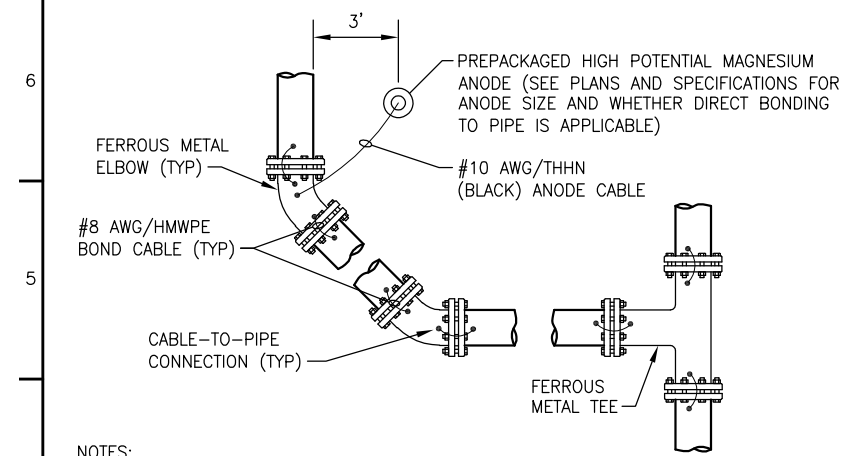
ATS TERMINAL BOX
DETAIL 27
NOT TO SCALE



EXOTHERMIC WELD
DETAIL 29
NOT TO SCALE



CABLE-TO-PIPE CONNECTION
DETAIL 28
NOT TO SCALE



PIPE CONNECTIVITY & ANODE INSTALLATION
DETAIL 28
NOT TO SCALE

- CATHODIC PROTECTION NOTES:
- CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR PROPER INSTALLATION OF CATHODIC PROTECTION. ISOLATION GASKETS AND INSULATED FITTINGS SHALL BE TESTED BY CITY PERSONNEL AFTER INSTALLATION TO CONFIRM CONTINUITY (OR ISOLATION, AS APPROPRIATE) OF NEW PIPE AND FITTINGS. ANODES SHALL BE TESTED BY CITY PERSONNEL AFTER INSTALLATION TO CONFIRM ALL ANODES MEET THE MINIMUM ELECTRIC POTENTIAL REQUIRED.
 - ALL CATHODIC PROTECTION SYSTEMS THAT FAIL INSPECTION (DUE TO CONTRACTOR INSTALLATION OR MATERIAL FAILURE) SHALL BE REMOVED, REPLACED, AND RETESTED AT THE CONTRACTOR'S EXPENSE.
 - CONTRACTOR MAY REQUEST TESTS AFTER WATER MAIN PRESSURE TESTS HAVE PASSED. THE CONTRACTOR SHALL PROVIDE THE CITY FIVE (5) WORKING DAYS TO COMPLETE TESTING OF FACILITIES AFTER INITIAL REQUEST FOR TESTING IS RECEIVED BY THE CITY. ALL CATHODIC PROTECTION SYSTEMS SHALL PASS THE CITY'S INSPECTION PRIOR TO FINAL PAVING.

- NOTES:
- ALL CABLE CONNECTIONS TO STEEL PIPE AND METALLIC FITTINGS SHALL BE ACCOMPLISHED UTILIZING AN EXOTHERMIC WELDING PROCESS SUCH AS "CALDWELL" BY ERICO PRODUCTS, INC. OR APPROVED EQUAL (SEE EXOTHERMIC WELD DETAIL). ALL MATERIAL AND EQUIPMENT UTILIZED FOR WELDING SHALL BE FROM ONE MANUFACTURER.
 - BOND WIRE SHALL BE #8 AWG/HMWPE BOND CABLE. ALL JOINTS, EXCEPT FIELD WELDED JOINTS AND INSULATING JOINTS, SHALL BE CONTINUITY BONDED. BONDS SHALL BE WELDED TO STEEL PIPE AS WELL AS MAJOR PARTS OF ANY COUPLINGS USED. THE LENGTH OF THE BOND CABLES BETWEEN FITTINGS SHALL BE SUFFICIENT IN LENGTH TO ALLOW FOR ANY SOIL CONTRACTION OR PIPE MOVEMENT.
 - NEW PIPE SHALL BE CONTINUITY BONDED W/ EX. WATER MAINS AT ALL TIE-IN POINTS. UNLESS SHOWN TO BE ELECTRICALLY DISCONTINUOUS W/ DIELECTRIC COUPLINGS OR INSULATING GASKETS.
 - ANODES SHALL NOT BE BONDED DIRECTLY TO THE PIPE, UNLESS SPECIFIED TO BE INSTALLED WITHOUT A TEST STATION.

- EXOTHERMIC WELD PROCEDURE
- FILE STRUCTURE CONNECTION AREA TO BARE SHINY METAL AND CLEAN.
 - STRIP INSULATION FROM WIRE. ATTACH SLEEVE REQUIRED ON #6 AWG WIRE OR SMALLER.
 - HOLD MOLD FIRMLY WITH OPERATOR AND IGNITE WITH FLINT GUN.
 - REMOVE SLAG FROM CONNECTION AND PEEN WELD FOR SOUNDNESS.
 - ONCE WELD HAS COOLED, COMPLETELY COVER CONNECTION AND EXPOSED STRUCTURE SURFACE WITH EPOXY COATING COMPOUND.

- NOTES:
- EXOTHERMIC WELD PROCEDURE SHOWN ABOVE IS TO BE USED AS A GENERAL GUIDE ONLY. CONSULT MANUFACTURER'S LITERATURE FOR SPECIFIC SIZE AND INSTALLATION INSTRUCTIONS.
 - PUTTY USED FOR THE CABLE TO PIPE CONNECTION SEAL DAM (THERMITE CONNECTIONS) SHALL BE "A+B" EPOXY AS MANUFACTURED BY BIGGS COMPANY, OR EQUAL. ALL BONDS SHALL BE INSPECTED BY WATER DIVISION PRIOR TO BACKFILLING TRENCH.

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NO.	ZONE	REVISIONS	BY	DATE	

THIS LINE IS 1 INCH
AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE : AS SHOWN
DRAWN BY : SMB
DESIGNED BY : JPC
PROJ. MGR. : JPC

APPROVED : _____

DATE : _____

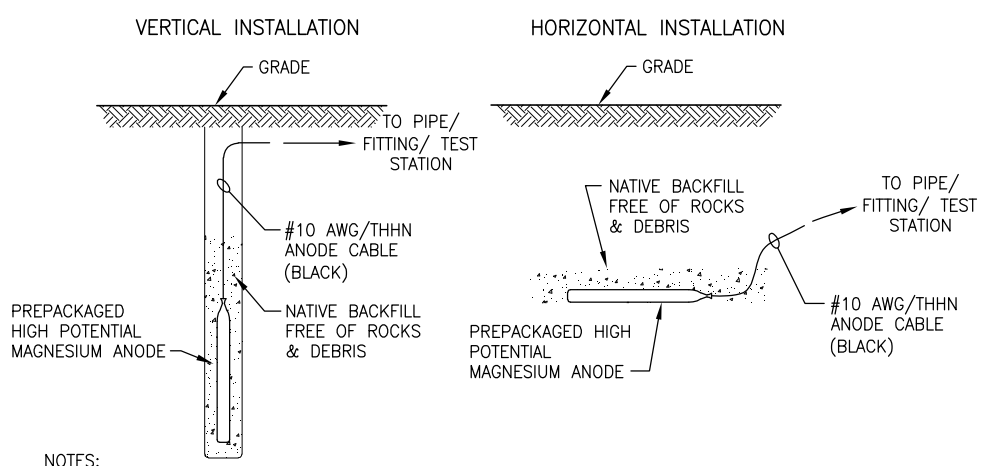
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FAX (530) 756-5991

CITY OF NAPA

City of Napa
Dwyer Road Pump Station
CIVIL
CATHODIC PROTECTION DETAILS 1

JOB NUMBER 424-00-11-13
DRAWING NUMBER CP1
SHEET NUMBER 10 OF 51
REVISION

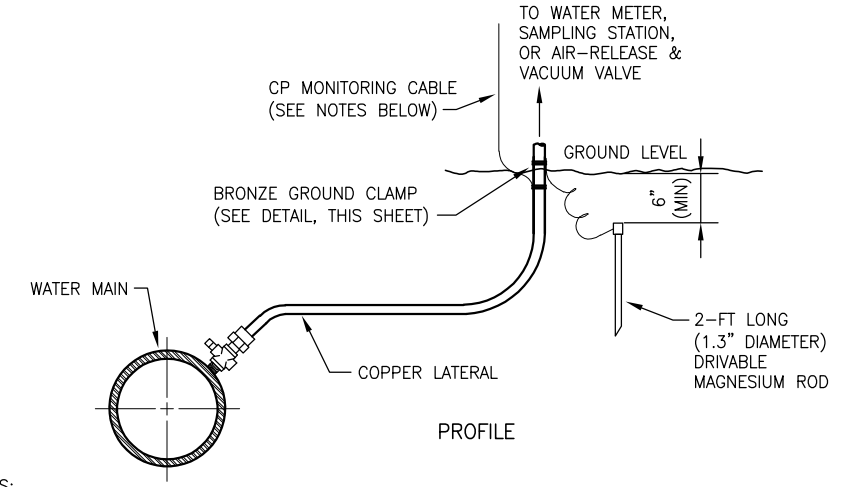
EXHIBIT G
SUBRECIPIENT PROFILE



- NOTES:
1. INSTALL ANODES 3-FT (HORIZONTAL) OFF THE PIPE/FITTING IN NATIVE SOIL, LOCATED DEEPER THAN THE FACILITY IT IS PROTECTING.
 2. ANODES SHALL BE KEPT A MIN OF 3-FT FROM STORM DRAIN AND SEWER FACILITIES, AND 5-FT FROM ALL OTHER UTILITIES (INCLUDING, BUT NOT LIMITED TO, GAS, ELECTRICAL, PHONE & CABLE).
 3. ANODES MAY BE INSTALLED HORIZONTALLY OR VERTICALLY, UNLESS SPECIFICALLY DIRECTED BY THE WATER DIVISION.
 4. ALL CABLE CONNECTIONS TO STEEL PIPE AND FITTINGS SHALL BE ACCOMPLISHED UTILIZING AN EXOTHERMIC WELDING PROCESS SUCH AS "CALDWELL" BY ERICO PRODUCTS, INC. OR APPROVED EQUAL (SEE EXOTHERMIC WELD DETAIL). ALL MATERIAL AND EQUIPMENT UTILIZED FOR WELDING SHALL BE FROM ONE MANUFACTURER.
 5. ANODE CABLES SHALL BE CONNECTED DIRECTLY TO FERROUS PIPE OR FITTINGS. LEAD WIRE FOR THE ANODES SHALL BE 30-FT LONG, #10 AWG SOLID COPPER WIRE WITH BLACK RHW-USE INSULATION. LEAD WIRES SHALL BE SILVER SOLDERED TO ANODE CORE WITH THE CONNECTION ENCAPSULATED IN EPOXY RESIN.
 6. CONTRACTOR TO INSTALL MAGNESIUM ANODES AS IDENTIFIED IN THE SPECIFICATIONS, IN ADDITION TO LOCATIONS SPECIALLY IDENTIFIED ON THESE PLANS. ALL SPECIALLY MARKED ANODES ON THESE SHEETS SHALL BE 72-LB (MIN) MAGNESIUM ANODES UNLESS OTHERWISE NOTED.
 7. ANODE INSTALLATION PROCEDURE SHOWN ABOVE IS TO BE USED AS A GENERAL GUIDE ONLY. CONSULT MANUFACTURER'S LITERATURE FOR SPECIFIC INSTALLATION INSTRUCTIONS.
 8. ANODES SHALL BE TESTED FOR CURRENT POTENTIAL BY CITY PERSONNEL PRIOR TO CONTRACTOR COMPLETING EXOTHERMIC WELD TO PIPE OR CONNECTION MADE TO TEST STATION. ANODES SHALL BE SOAKED WITH WATER AND BURIED IN NATIVE SOIL PRIOR TO TESTING. ALL ANODES SHALL BE WITHIN $\pm 100\text{mV}$ FROM -1700mV (AS IT RELATES TO COPPER SULFATE) TO BE CONSIDERED A "HIGH POTENTIAL" MAGNESIUM ANODE. CONTRACTOR SHALL REPLACE ALL ANODES NOT MEETING THIS CRITERIA.

PRE-PACKAGED MAGNESIUM ANODE INSTALLATION

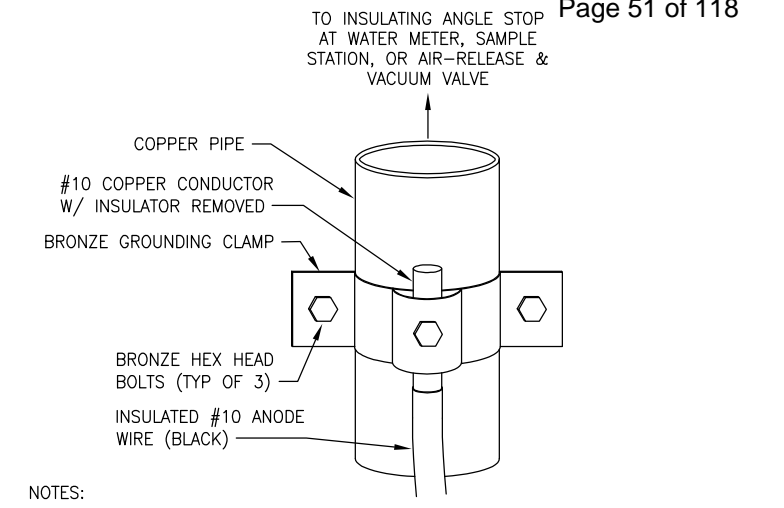
DETAIL 30
TYP
NOT TO SCALE



- NOTES:
1. DRIVABLE ANODE SHALL BE 2-LB (24" LONG, 1.3" DIAMETER) MAGNESIUM RODS WITH A 0.125-INCH DIAMETER STEEL CORE. LEAD WIRES FOR ANODES SHALL BE 3-FT LONG #10 AWG SOLID COPPER WIRE WITH BLACK RHW-USE INSULATION. ANODES SHALL HAVE UHMW POLYETHYLENE DRIVE CAP AND THE DRIVE POINT SHALL BE CUT AT A 45-DEGREE ANGLE. GROUNDING CLAMPS SHALL BE BRASS WITH BRASS HEX BOLTS AND NUTS.
 2. THE SURFACE OF THE COPPER RISER PIPE IN THE WATER METER BOX SHALL BE CLEANED PRIOR TO ATTACHMENT OF THE BRASS GROUNDING CLAMP IN ORDER TO ENSURE A GOOD ELECTRICAL CONNECTION BETWEEN THE CLAMP AND THE COPPER WATER LATERAL.
 3. A PREDRILLED HOLE IS REQUIRED FOR ALL ANODE INSTALLATIONS. HOLE SHALL BE INSTALLED WITHIN THE METER BOX ADJACENT TO WATER METER. HOLE SHALL BE LARGE ENOUGH TO SUFFICIENTLY INSERT THE ANODE SUCH THAT A TIGHT FIT IS MAINTAINED BETWEEN THE ANODE AND THE SOIL, AND THAT A MINIMUM COVER OF 6-INCHES IS OBTAINED.
 4. RUN WIRE IN CONTINUOUS LENGTH FROM THE ANODE TO THE GROUNDING CLAMP, FREE OF JOINTS OR SPLICES. CARE SHALL BE USED DURING INSTALLATION TO AVOID PUNCTURES, CUTS AND SIMILAR DAMAGE TO THE WIRE INSULATION.
 5. CP MONITORING CABLES SHALL BE REQUIRED ON ALL 1" WATER SERVICES. CABLE SHALL BE #8 AWG/HMWPE BOND CABLE AND SHALL EXTEND A MINIMUM OF 9-INCHES ABOVE GROUND INTO THE WATER METER BOX FOR CP TESTING PURPOSES. CABLES SHALL BE CONNECTED BELOW THE BRASS CLAMP TO THE DRIVABLE MAGNESIUM ANODE AND SHALL BE CONNECTED SECURELY TO THE COPPER PIPE WITH A STAINLESS STEEL HOSE CLAMP. BOTH THE BRASS CLAMP (CONNECTED TO THE ANODE) AND THE HOSE CLAMP (CONNECTED TO THE CP MONITORING CABLE) SHALL BE CLAMPED TO THE BARE COPPER PIPE PRIOR TO WRAPPING WITH HIGH TACK TAPE, WAX TAPE, AND/OR POLYETHYLENE WRAP.

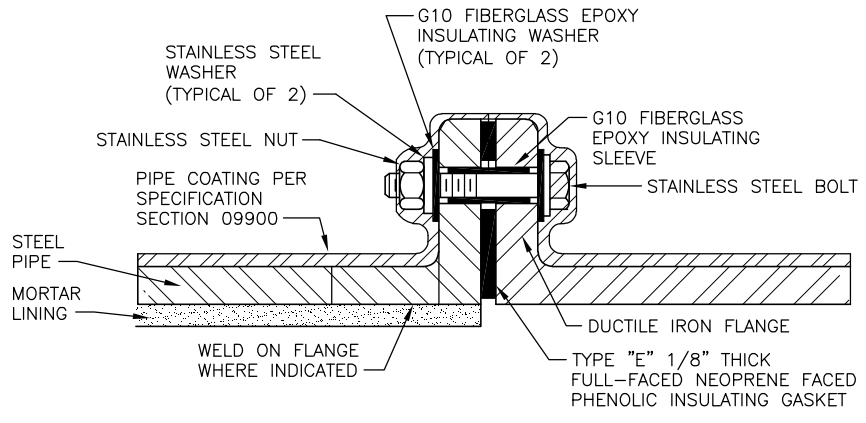
DRIVABLE MAGNESIUM ANODE INSTALLATION

DETAIL 31
TYP
NOT TO SCALE



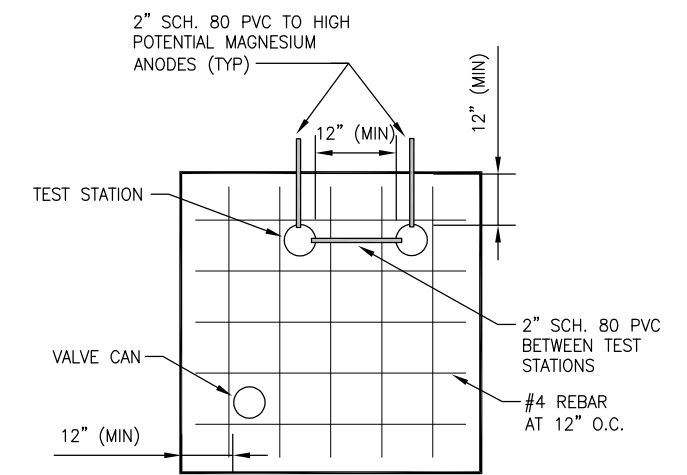
- NOTES:
1. STRIP WIRE INSULATION AT THE GROUNDING CLAMP TO ENSURE ELECTRICAL CONTINUITY.
 2. ALL BOLTS SHALL BE BRONZE WITH HEX HEADS.
 3. GROUNDING CLAMP SHALL BE AT DEPTH READILY ACCESSIBLE IN THE METER BOX.
 4. GROUNDING CLAMP SHALL BE INSTALLED PRIOR TO WRAPPING OF PIPE WITH 10-MIL HIGH TACK PIPE TAPE.

GROUND CLAMP
DETAIL 32
TYP
NOT TO SCALE



DIELECTRIC INSULATING JOINT (IJ)

DETAIL 33
VAR
NOT TO SCALE



- NOTES:
1. 4" A.C. WITH 6" A.B. PAD
 2. COMPACTION UNDER PAD SHALL BE 95% (MIN)
 3. ALL VALVE BOXES, RISERS, AND TEST STATIONS IN AREA SHALL BE INCLUDED WITHIN THE CONCRETE PAD WITH A 12" (MIN) SEPARATION FROM THE EDGE OF THE PAD AND FROM EACH OTHER.

CONCRETE PAD
DETAIL 34
TYP
NOT TO SCALE

6					
5					
4					
3					
2					
1					
0					
NO.	ZONE	REVISIONS	BY	DATE	

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AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE : AS SHOWN

DRAWN BY : SMB

DESIGNED BY : JPC

PROJ. MGR. : JPC

APPROVED : _____

DATE : _____

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(530) 756-5905
FAX (530) 756-5991

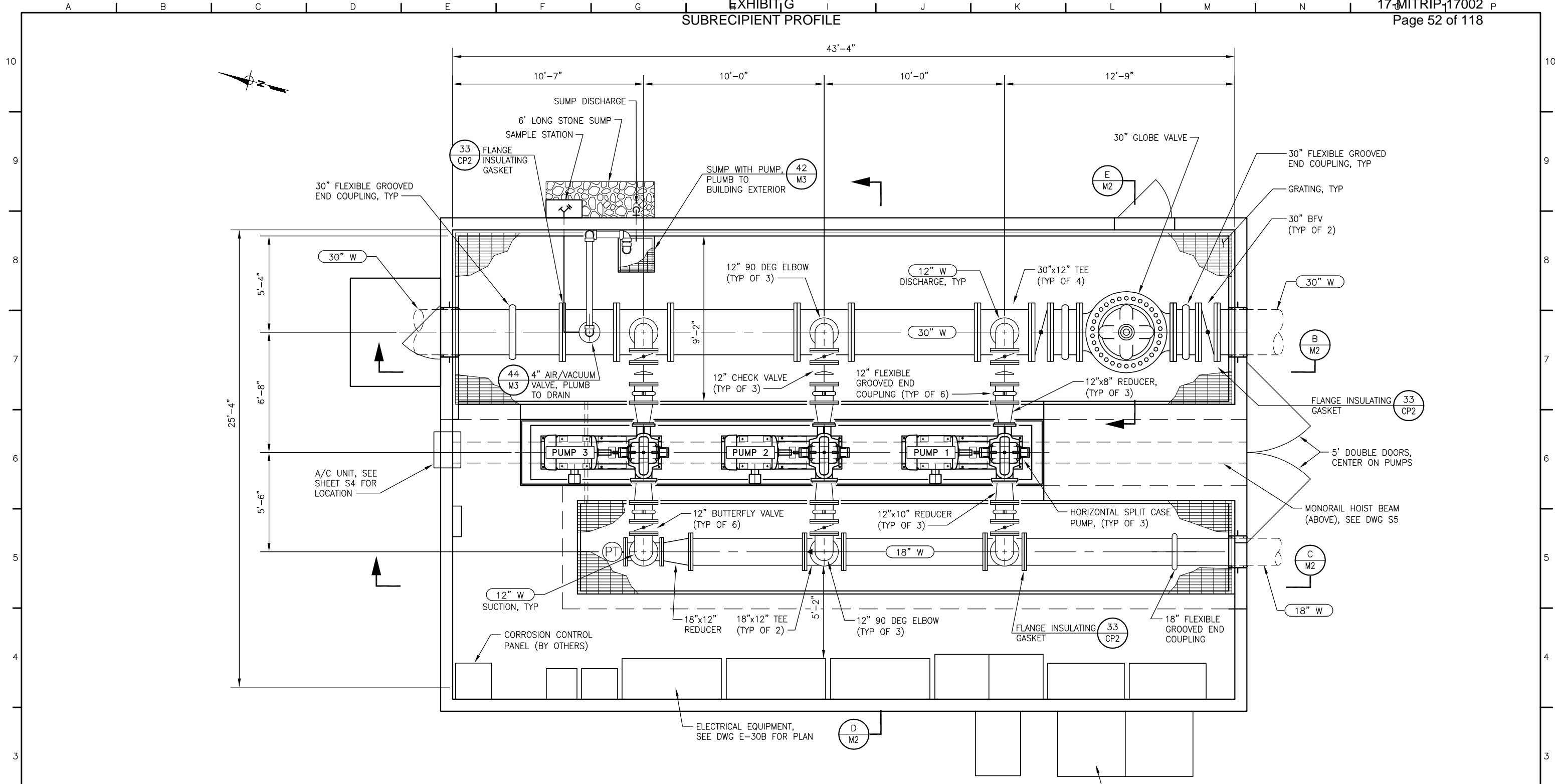
CITY OF NAPA

City of Napa
Dwyer Road Pump Station

CIVIL
CATHODIC PROTECTION DETAILS 2

JOB NUMBER 424-00-11-13
DRAWING NUMBER CP2
SHEET NUMBER 11 OF 51
REVISION

EXHIBIT G
 SUBRECIPIENT PROFILE



PROVIDE (FURNISH AND INSTALL) ALL PUMP STATION COMPONENTS EXCEPT AS NOTED.

NO.	ZONE	REVISIONS	BY	DATE
1				
2				
3				
4				
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6				

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 IF NOT SCALE ACCORDINGLY
 SCALE : 3/8" = 1'-0"
 DRAWN BY : SMB
 DESIGNED BY : JPC
 PROJ. MGR. : JPC

APPROVED : _____
 DATE : _____

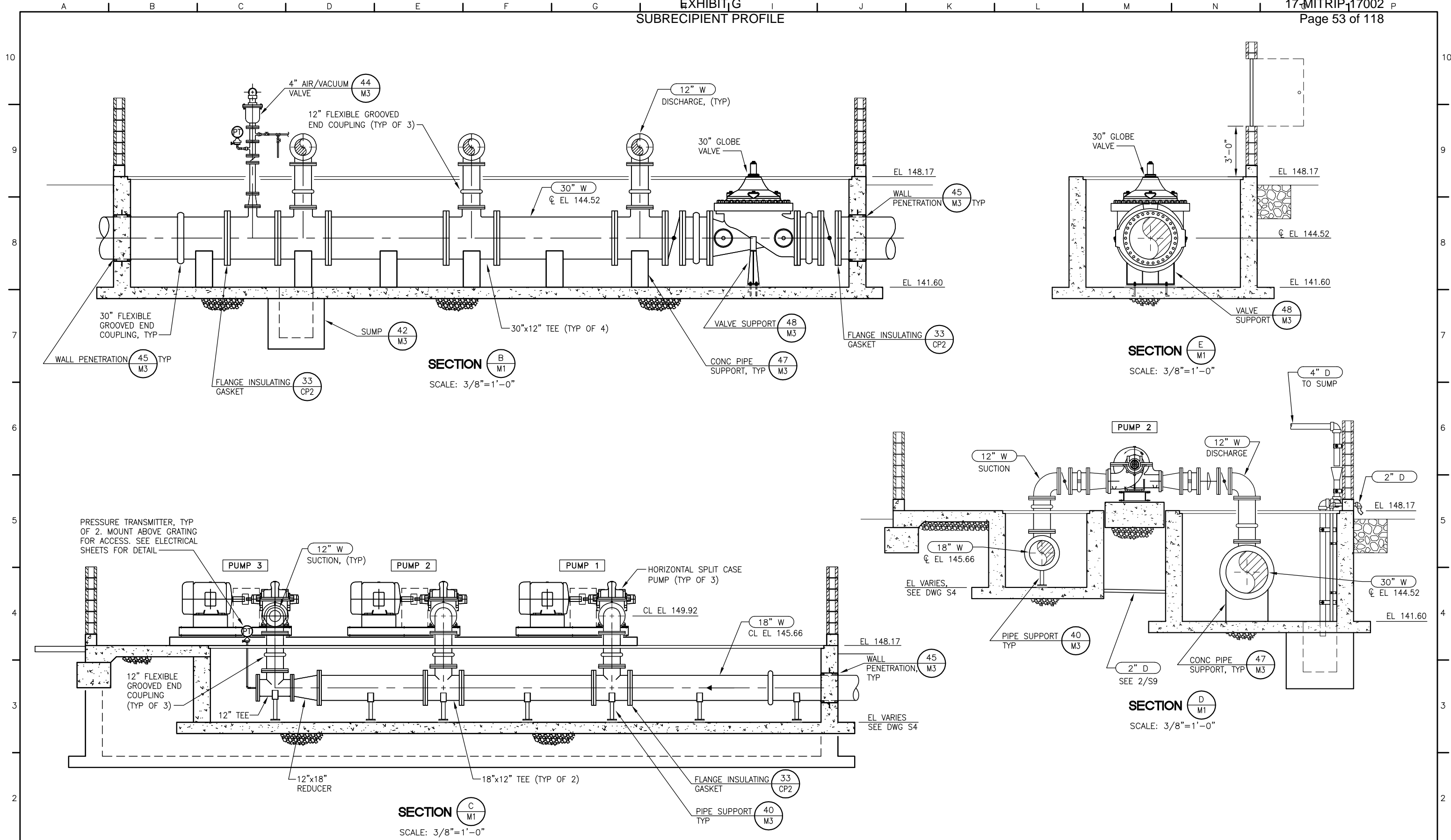
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CITY OF NAPA

City of Napa
Dwyer Road Pump Station
 MECHANICAL
 PLAN

JOB NUMBER 424-00-11-13
DRAWING NUMBER M1
SHEET NUMBER 12 OF 51
REVISION

EXHIBIT G
 SUBRECIPIENT PROFILE



6					
5					
4					
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1					
NO.	ZONE	REVISIONS	BY	DATE	

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 PROJ. MGR. : JPC

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CITY of NAPA

City of Napa
Dwyer Road Pump Station

MECHANICAL
 SECTIONS

JOB NUMBER 424-00-11-13
DRAWING NUMBER M2
SHEET NUMBER 13 OF 51
REVISION

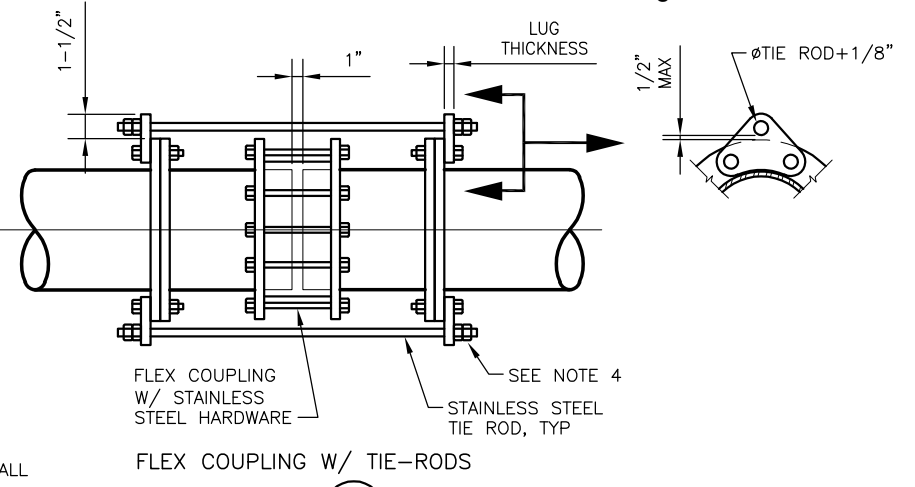
EXHIBIT G

SUBRECIPIENT PROFILE

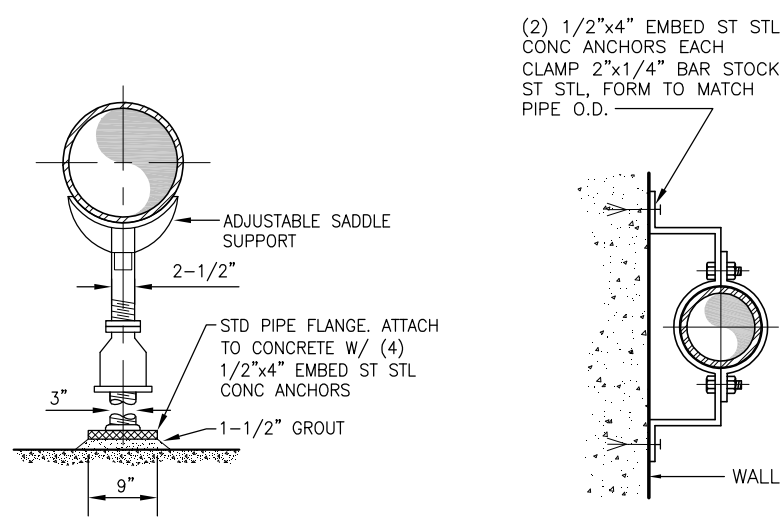
ROD SCHEDULE FOR DUCTILE IRON PIPE

PIPE SIZE	NO. OF RODS	ROD SIZE	LUG THICKNESS
8"	2	3/4"	1"
12"	4	3/4"	1"
16"	6	3/4"	1"
18"	8	3/4"	1"
30"	6	1-1/4"	1-1/4"

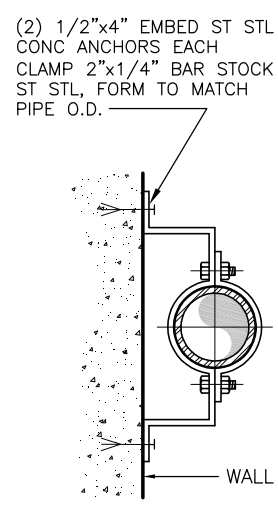
- NOTES:
- GRIND ALL CORNERS.
 - LOCATE TIE ROD ASSEMBLY EVENLY AROUND PIPE CIRCUMFERENCE.
 - FIELD COAT EXPOSED FERROUS METAL WITH EPOXY PAINT.
 - FINGER TIGHTEN NUTS AGAINST ANCHOR PLATE. DOUBLE NUTS SHALL BE PROVIDED AS LOCK NUTS.



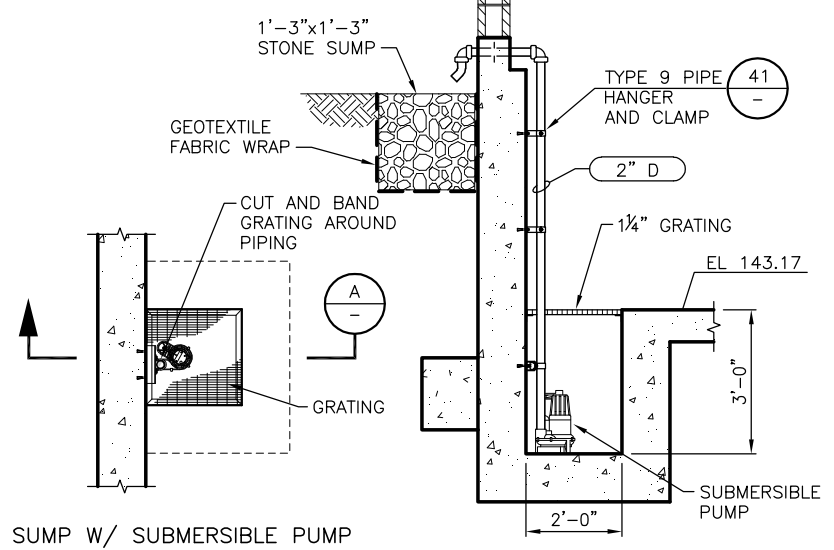
DETAIL 43 C1
NOT TO SCALE



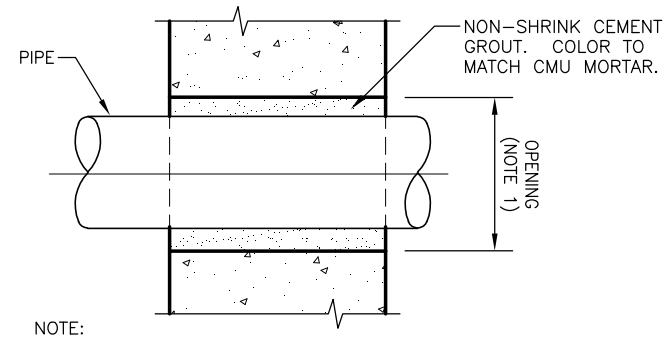
PIPE SUPPORT
DETAIL 40 VAR
NOT TO SCALE



TYPE 9 PIPE HANGER
3/4" THROUGH 8" PIPE
DETAIL 41
NOT TO SCALE

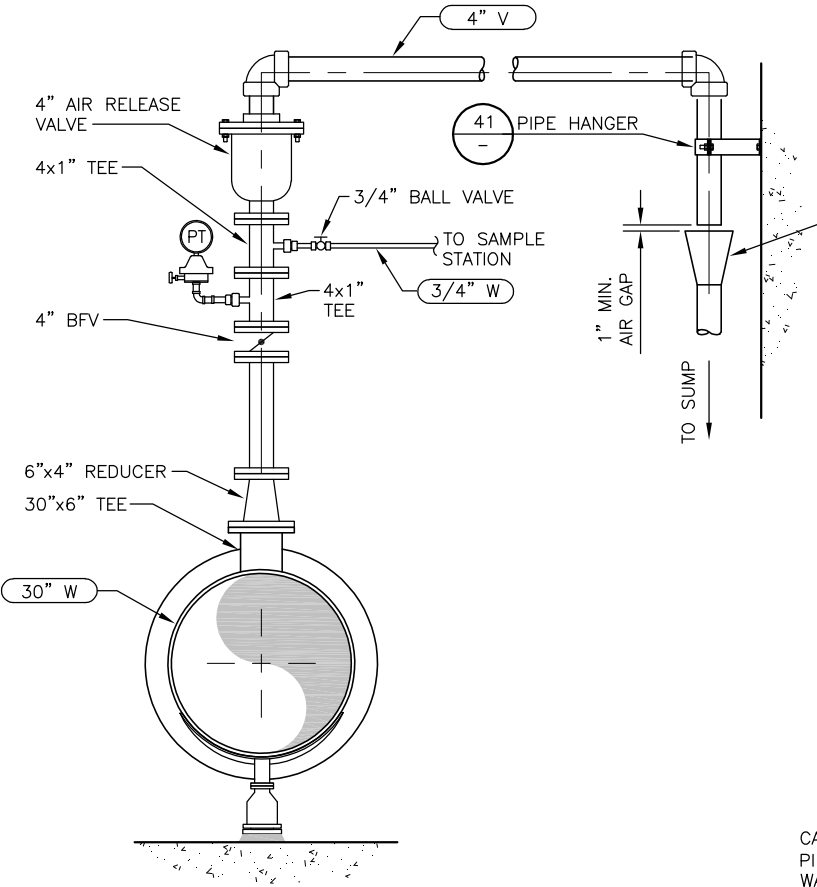


SUMP W/ SUBMERSIBLE PUMP
DETAIL 42 VAR
SCALE: 3/4"=1'-0"

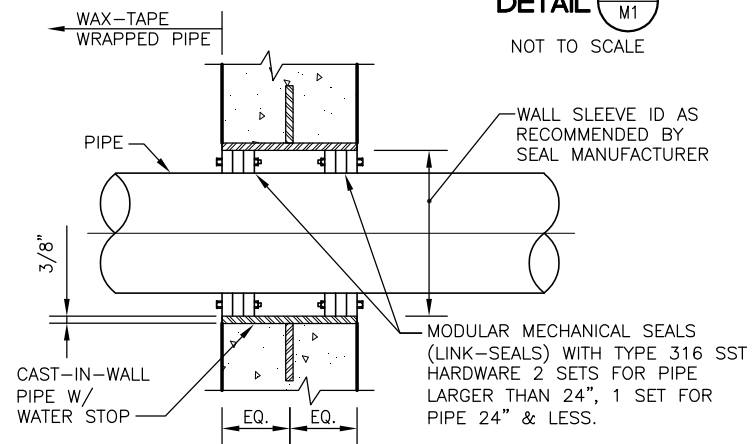


- NOTE:
- PROVIDE OPENING 2" LARGER THAN PIPE O.D. FOR 2" AND SMALLER PIPE. PROVIDE OPENING 4" LARGER THAN PIPE O.D. FOR PIPES LARGER THAN 2".

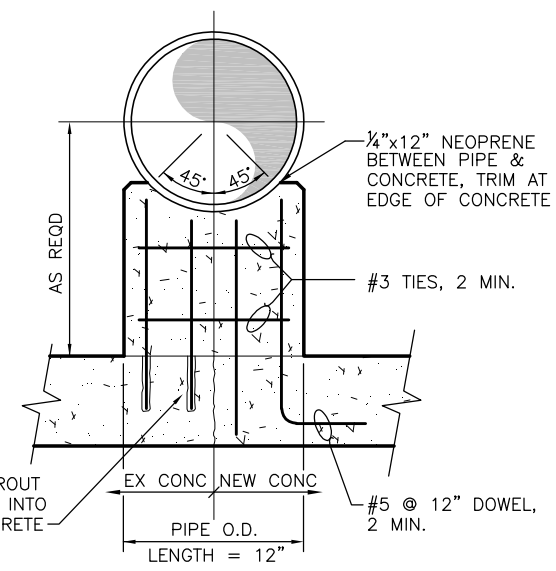
CMU WALL PENETRATION
DETAIL 46 M1
NOT TO SCALE



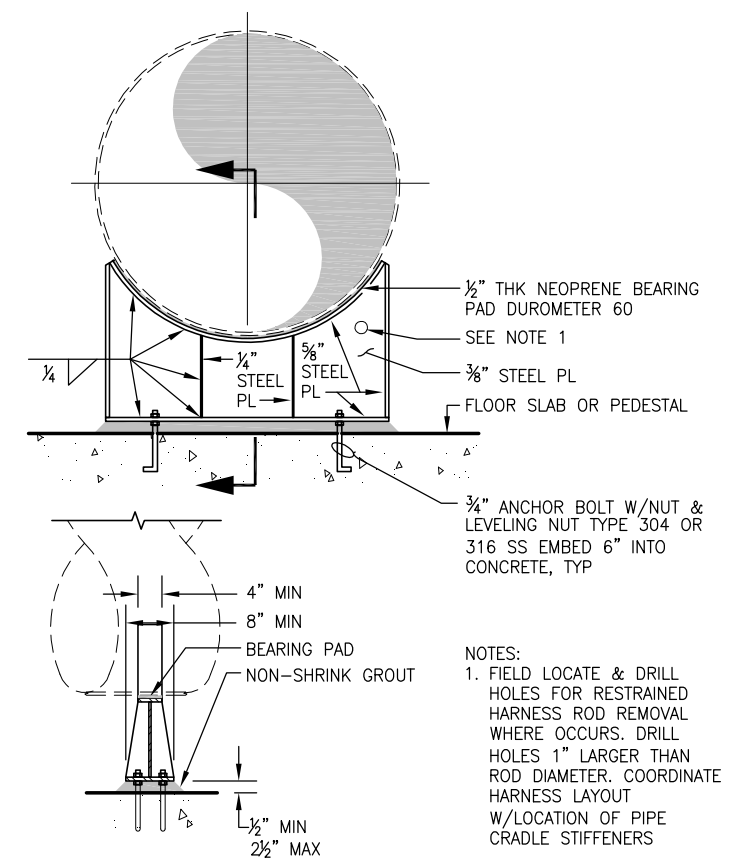
4" COMBINATION AIR VALVE
DETAIL 44 VAR
SCALE: 3/4"=1'-0"



WALL PENETRATION (LINK-SEALS)
DETAIL 45 VAR
NOT TO SCALE



CONCRETE PIPE SUPPORT
DETAIL 47 M2
NOT TO SCALE



VALVE SUPPORT
DETAIL 48 M2
NOT TO SCALE

- NOTES:
- FIELD LOCATE & DRILL HOLES FOR RESTRAINED HARNESS ROD REMOVAL WHERE OCCURS. DRILL HOLES 1" LARGER THAN ROD DIAMETER. COORDINATE HARNESS LAYOUT W/LOCATION OF PIPE CRADLE STIFFENERS

NO.	ZONE	REVISIONS	BY	DATE
6				
5				
4				
3				
2				
1				

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DRAWN BY: SMB

DESIGNED BY: JPC

PROJ. MGR.: JPC

APPROVED: _____

DATE: _____

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Consulting Engineers

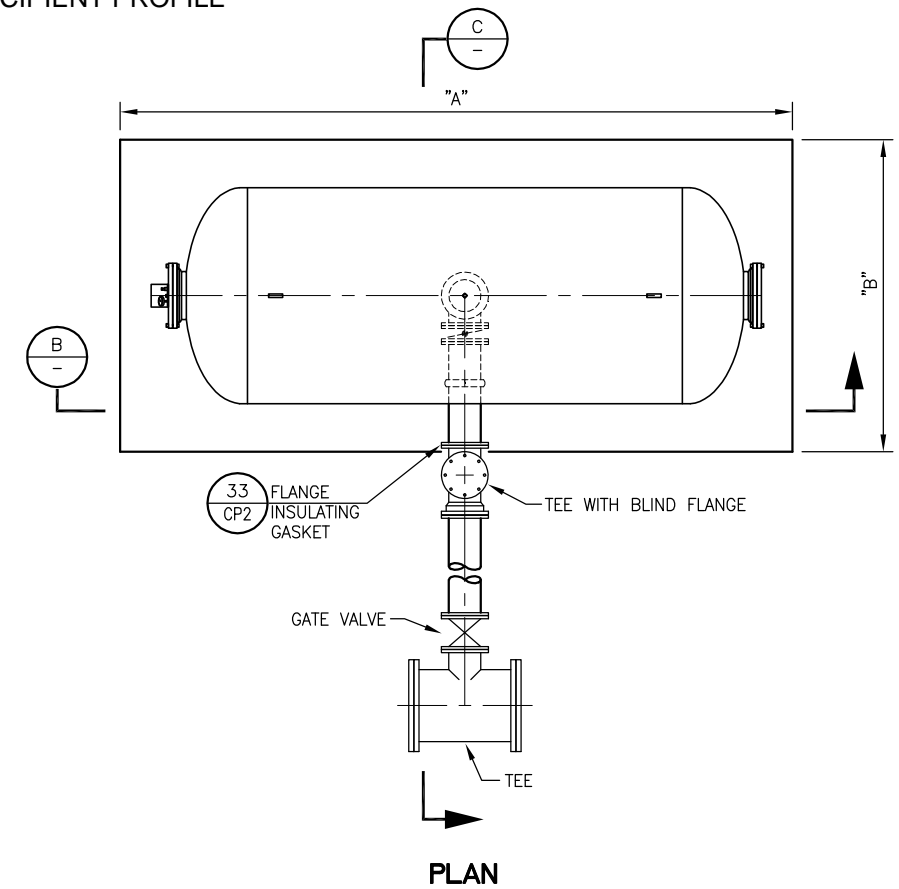
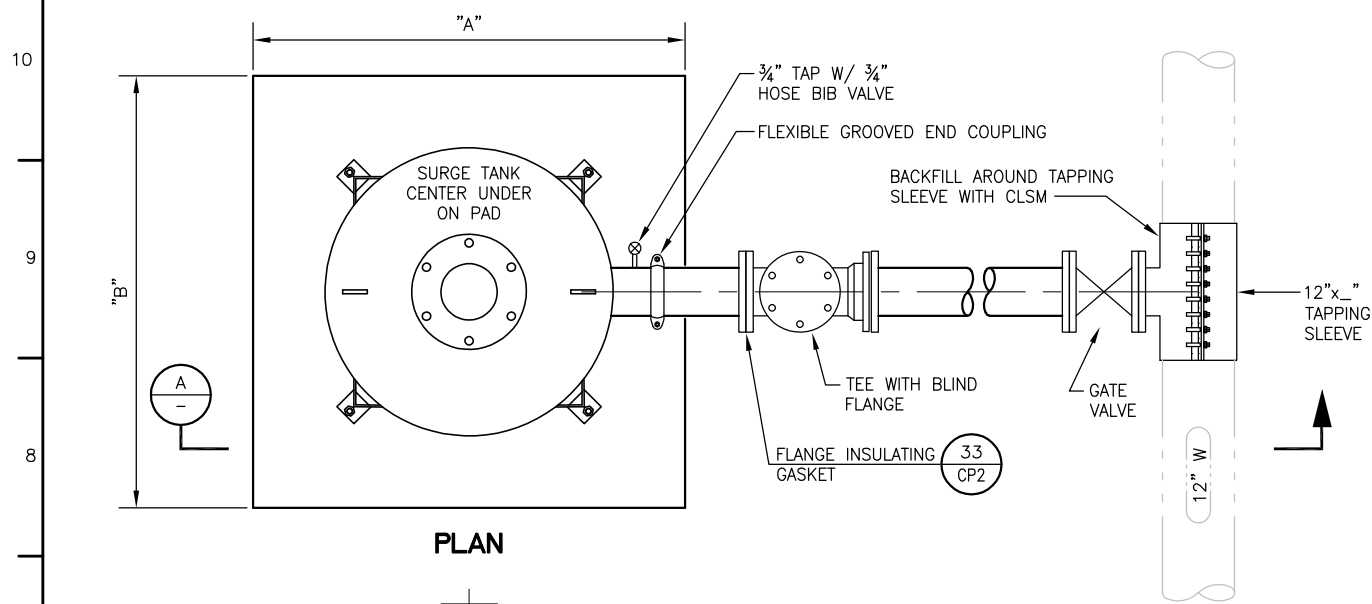
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(530) 756-5905
FAX (530) 756-5991

CITY OF NAPA

City of Napa
Dwyer Road Pump Station

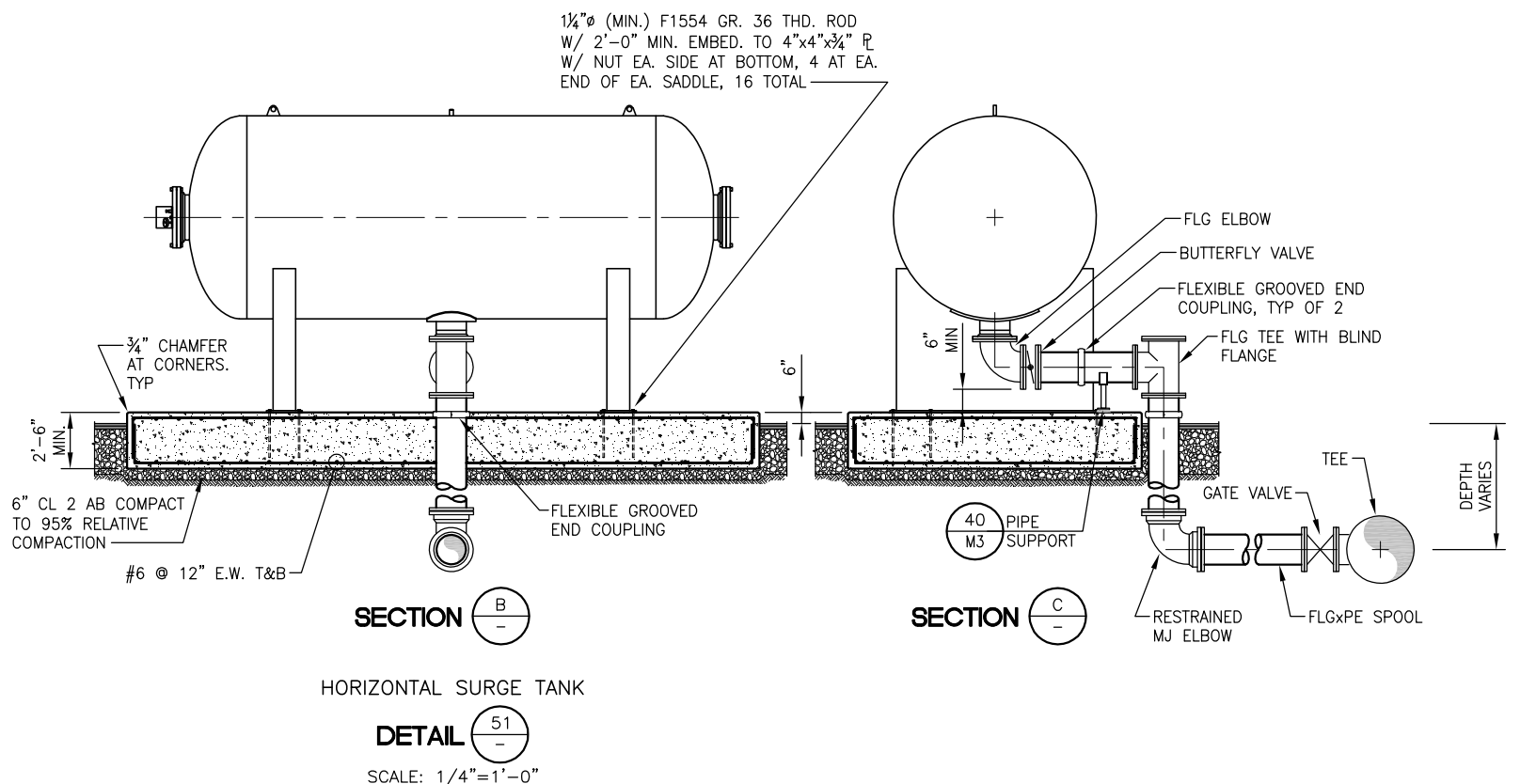
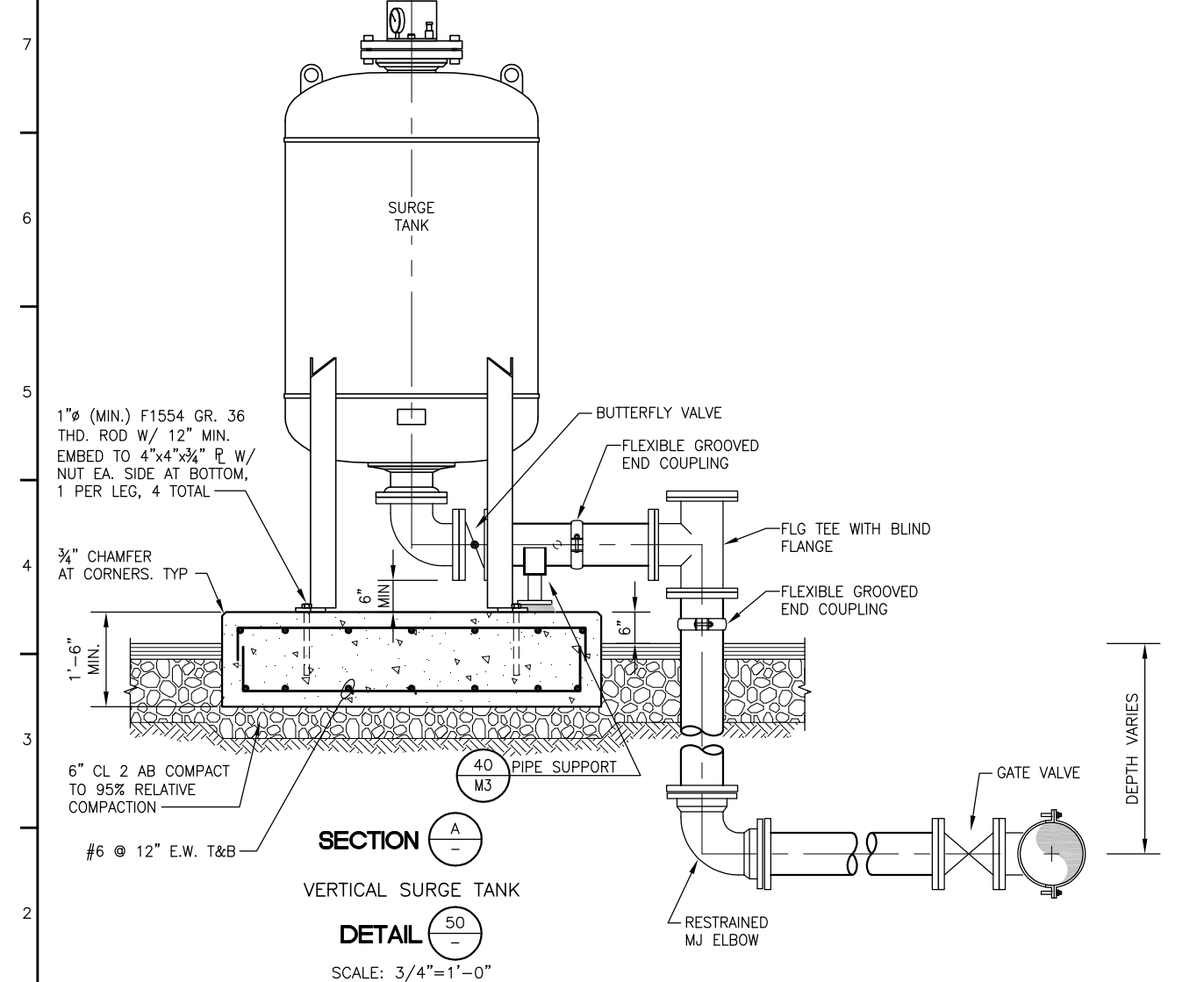
MECHANICAL DETAILS

JOB NUMBER 424-00-11-13
DRAWING NUMBER M3
SHEET NUMBER 14 OF 51
REVISION



	SYSTEM SOUTH	SYSTEM NORTH	ST. HELENA (a)	CALISTOGA (a),(b)
TYPE	HORIZ	HORIZ	VERT	VERT
VOLUME, GALLONS	10,000	10,000	500	500
"A"	28'	28'	6'	6'
"B"	13'	13'	6'	6'
INLET PIPING AND VALVES	16"	16"	8"	8"
EXISTING MAIN TYPE	-	-	DI	DI

(a) COORDINATE CONSTRUCTION WITH CITIES OF ST. HELENA AND CALISTOGA PER SPECIFICATION SECTION 15455 1.03F.
(b) FURNISH ALL MATERIALS EXCEPT CONCRETE TO CALISTOGA FOR INSTALLATION BY OTHERS.



NO.	ZONE	REVISIONS	BY	DATE
1				

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DESIGNED BY: JPC
PROJ. MGR.: JPC

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DATE: _____

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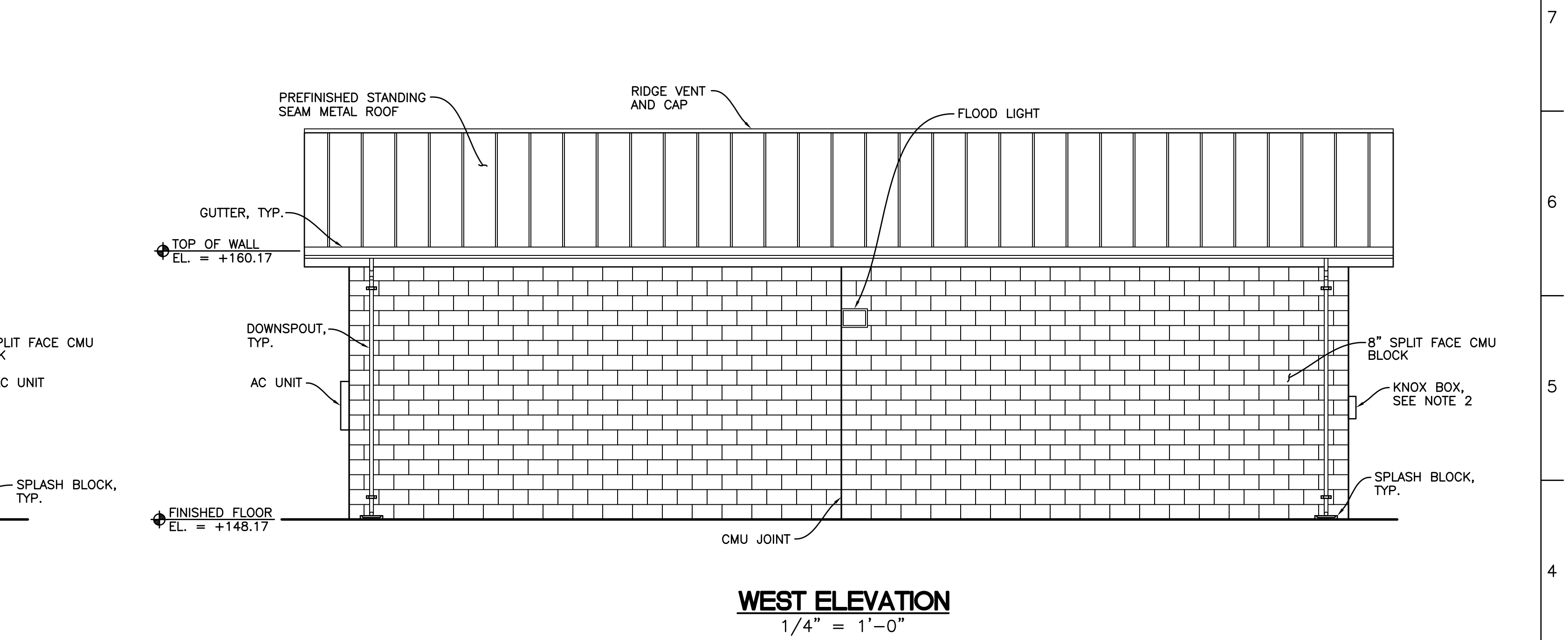
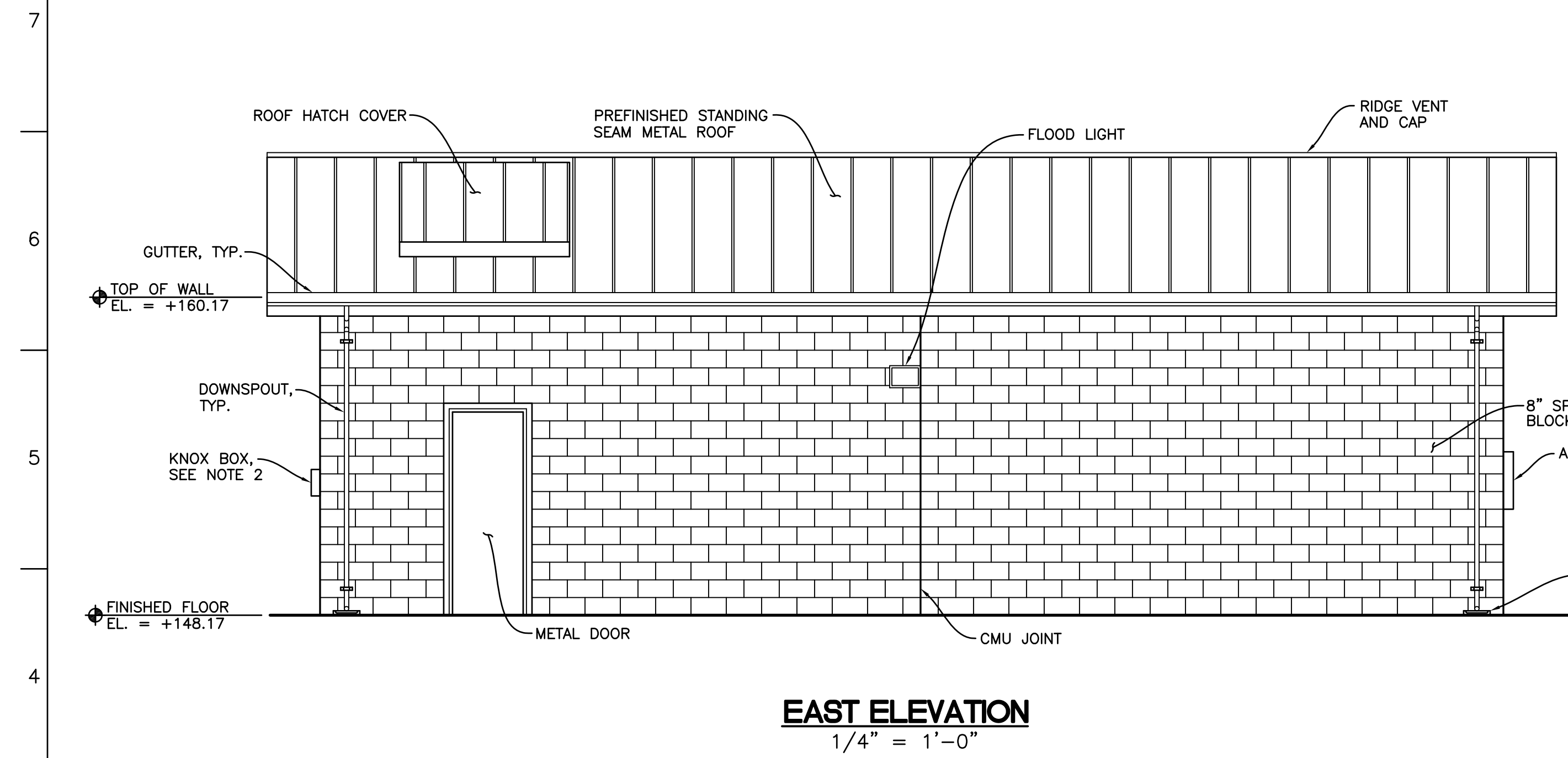
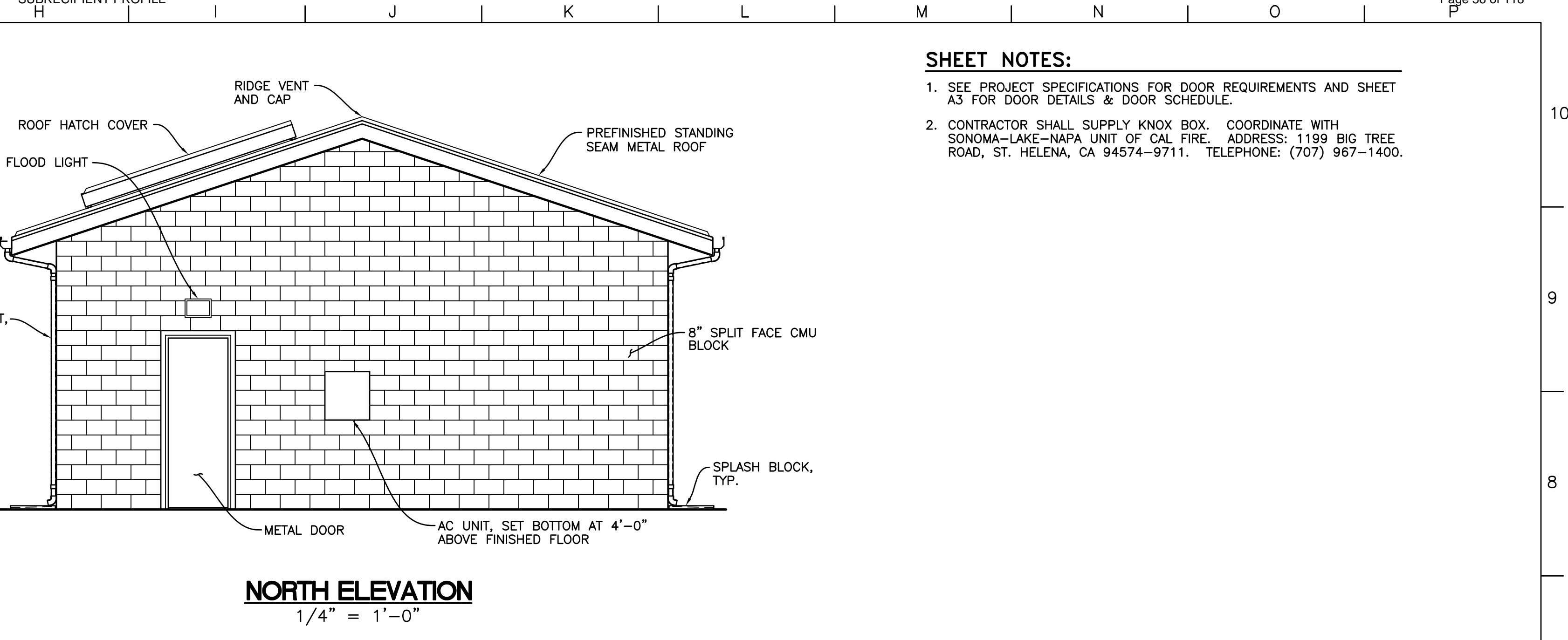
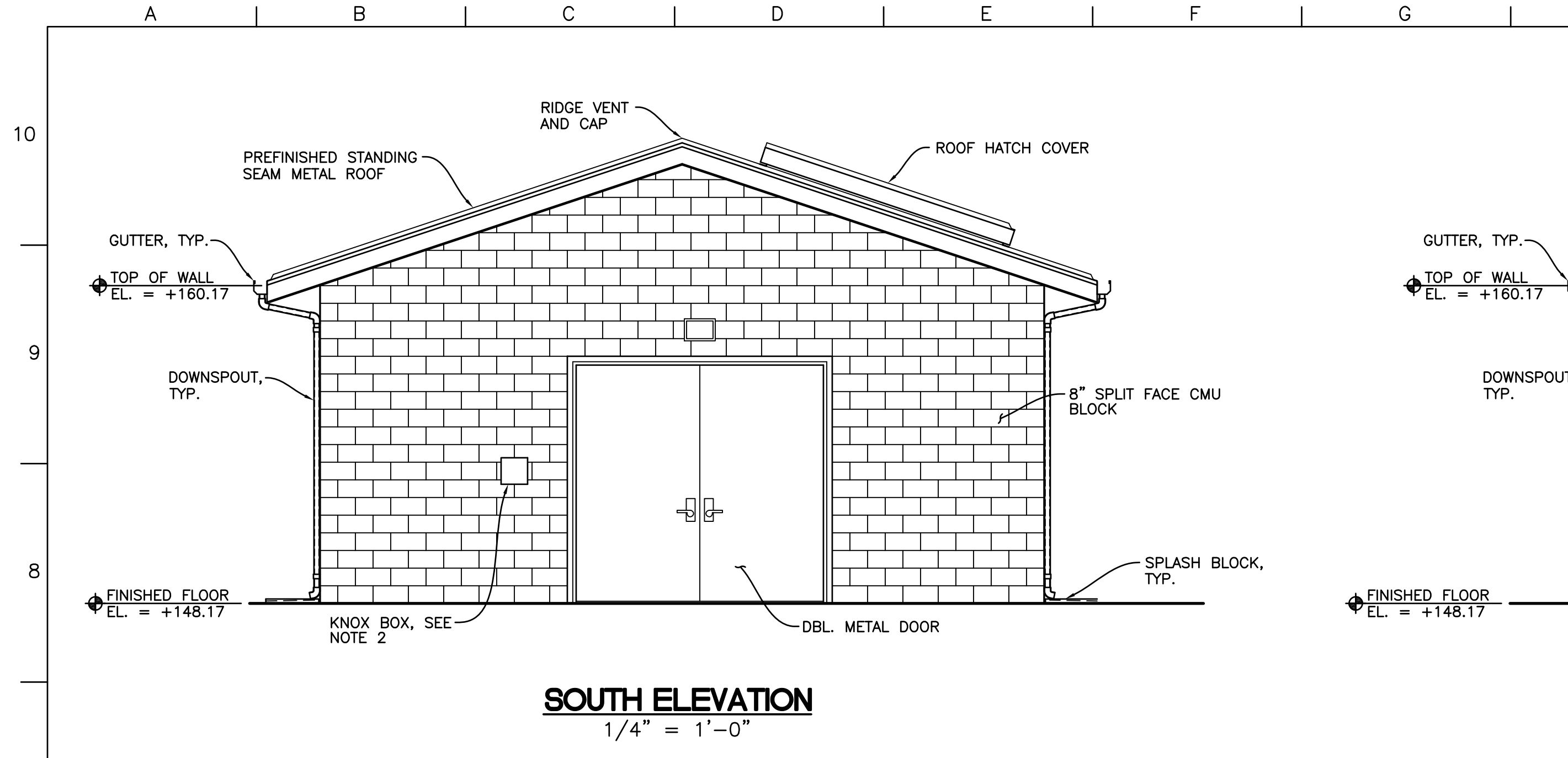
CITY OF NAPA

City of Napa
Dwyer Road Pump Station

MECHANICAL
SURGE PROTECTION
DETAILS AND SECTIONS

JOB NUMBER 424-00-11-13
DRAWING NUMBER M4
SHEET NUMBER 15 OF 51
REVISION

- SHEET NOTES:**
1. SEE PROJECT SPECIFICATIONS FOR DOOR REQUIREMENTS AND SHEET A3 FOR DOOR DETAILS & DOOR SCHEDULE.
 2. CONTRACTOR SHALL SUPPLY KNOX BOX. COORDINATE WITH SONOMA-LAKE-NAPA UNIT OF CAL FIRE. ADDRESS: 1199 BIG TREE ROAD, ST. HELENA, CA 94574-9711. TELEPHONE: (707) 967-1400.

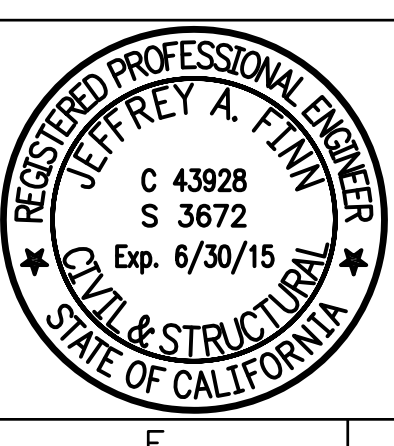


NO.	ZONE	REVISIONS	BY	DATE
1				

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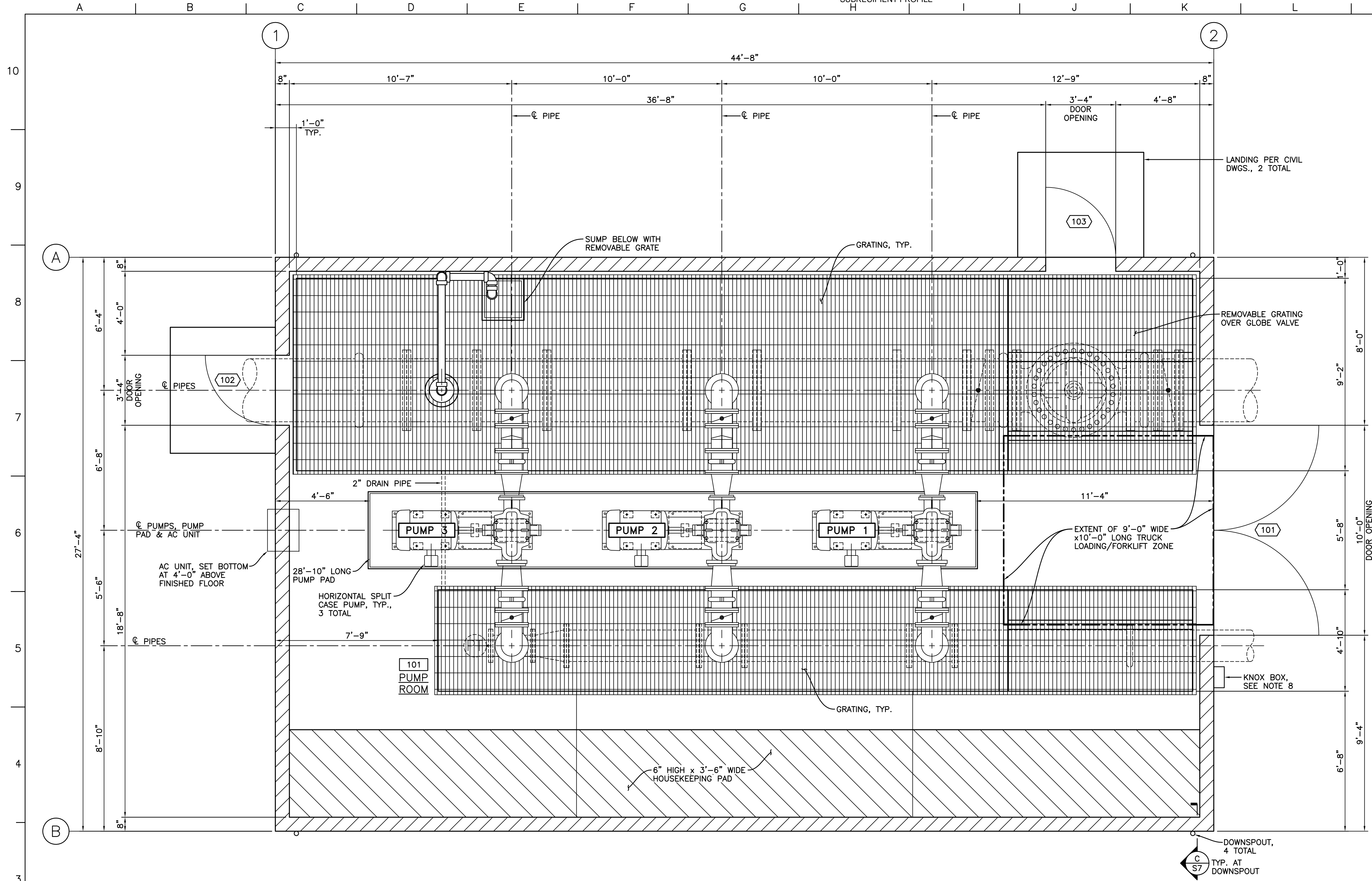
Finn Design Group, Inc.
Structural Engineers
5000 Hopyard Road, Suite 300
Pleasanton, CA 94588
OFFICE (925) 737-1600
FAX (925) 737-1601



City of Napa
Dwyer Road Pump Station

ARCHITECTURAL
BUILDING ELEVATIONS

JOB NUMBER 242-00-11-13
DRAWING NUMBER A1
SHEET NUMBER 16 OF 51
REVISION

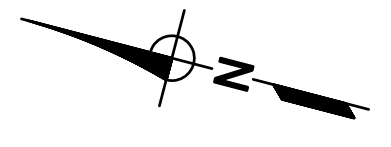


- FLOOR PLAN NOTES:**
- SEE GENERAL NOTES & SPECIFICATIONS ON SHEET S1.
 - ALL DIMENSIONS ARE TO NOMINAL FACE OF MASONRY BLOCK OR TO FACE OF CONCRETE, U.N.O.
 - DENOTES MASONRY BLOCK WALL
 - DENOTES DIRECTION OF CONCRETE SLAB SLOPE. SEE FOUNDATION PLAN ON SHEET S4 FOR TOP OF SLAB ELEVATIONS.
 - SEE SHEET A3 FOR ARCHITECTURAL FINISH SCHEDULE SHOWING INTERIOR FINISH REQUIREMENTS.
 - 101 ROOM NUMBER, SEE FINISH SCHEDULE ON SHEET A3.
 - 101 DOOR NUMBER, SEE DOOR SCHEDULE ON SHEET A3.
 - CONTRACTOR SHALL SUPPLY KNOX BOX. COORDINATE WITH SONOMA-LAKE-NAPA UNIT OF CAL FIRE. ADDRESS: 1199 BIG TREE ROAD, ST. HELENA, CA 94574-9711. TELEPHONE: (707) 967-1400.

BUILDING CODE INFORMATION			
OCCUPANCY GROUP	CONSTRUCTION TYPE	BUILDING AREA (ft ²)	ALLOWABLE AREA/# STORIES
F-2	VB	1,221	13,000/2

- NOTES:**
- CODE BASIS: 2010 CALIFORNIA BUILDING CODE (CBC).
 - AUTOMATIC FIRE SPRINKLERS ARE NOT REQUIRED PER CBC SECTION 903.2.4.

FLOOR PLAN
3/8" = 1'-0"



NO.	ZONE	REVISIONS	BY	DATE
1				

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DESIGNED BY : TEE
PROJ. MGR. : JAF



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DATE : _____

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Structural Engineers
5000 Hopyard Road, Suite 300
Pleasanton, CA 94588
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FAX (925) 737-1601



City of Napa
Dwyer Road Pump Station

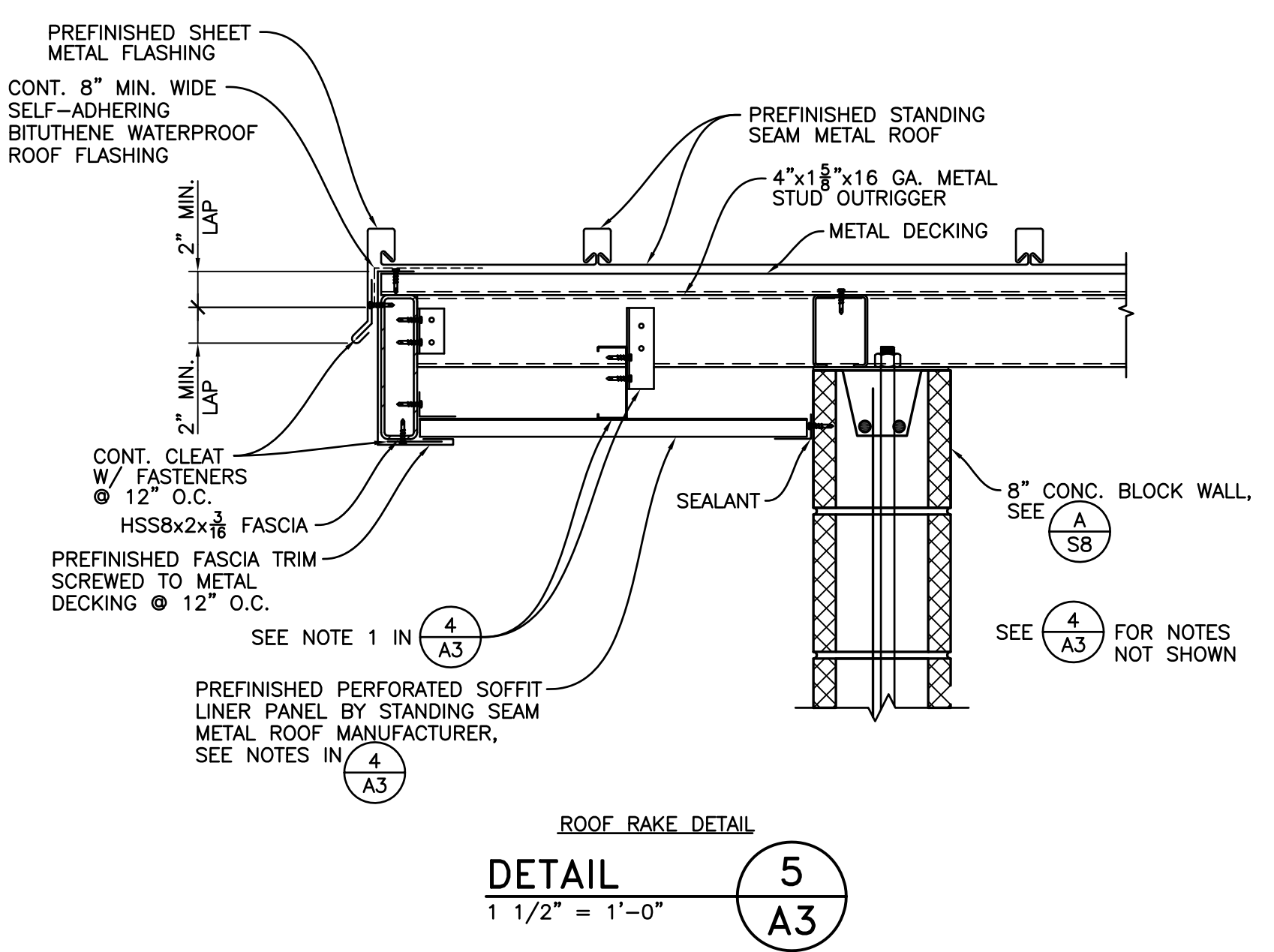
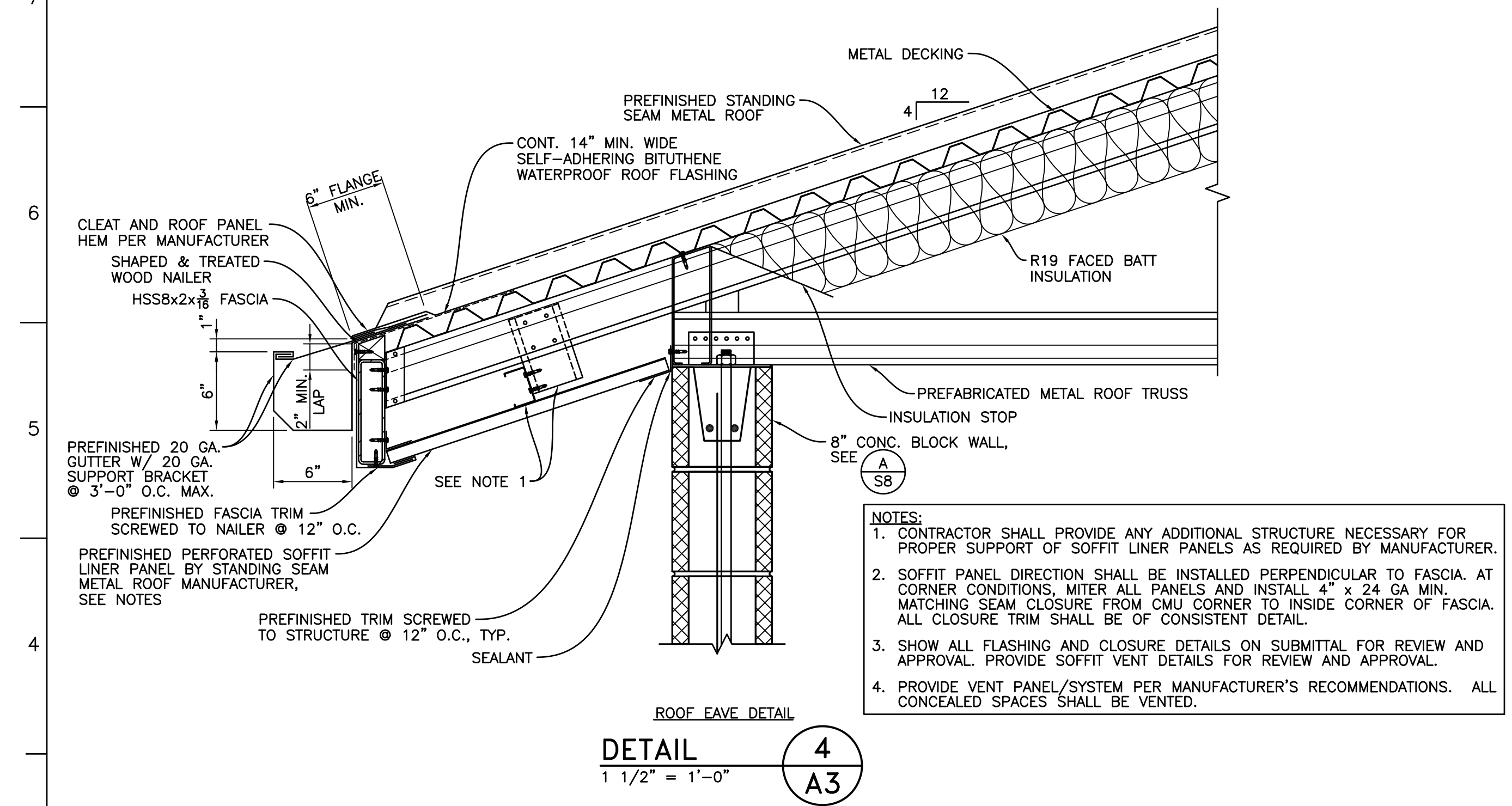
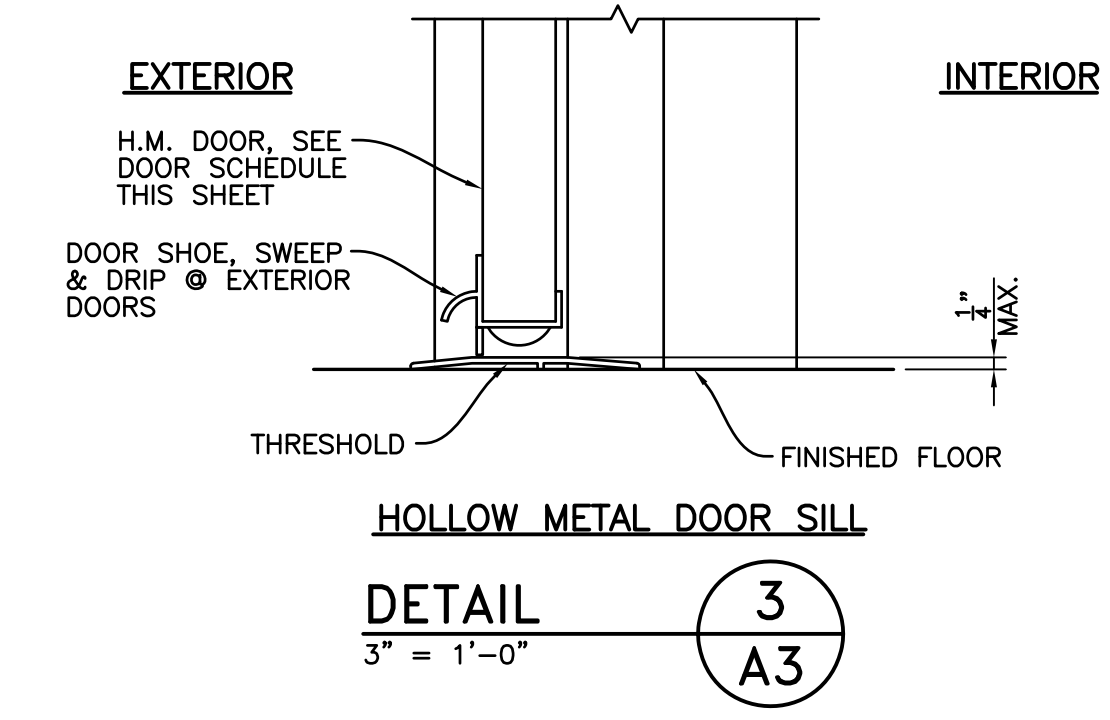
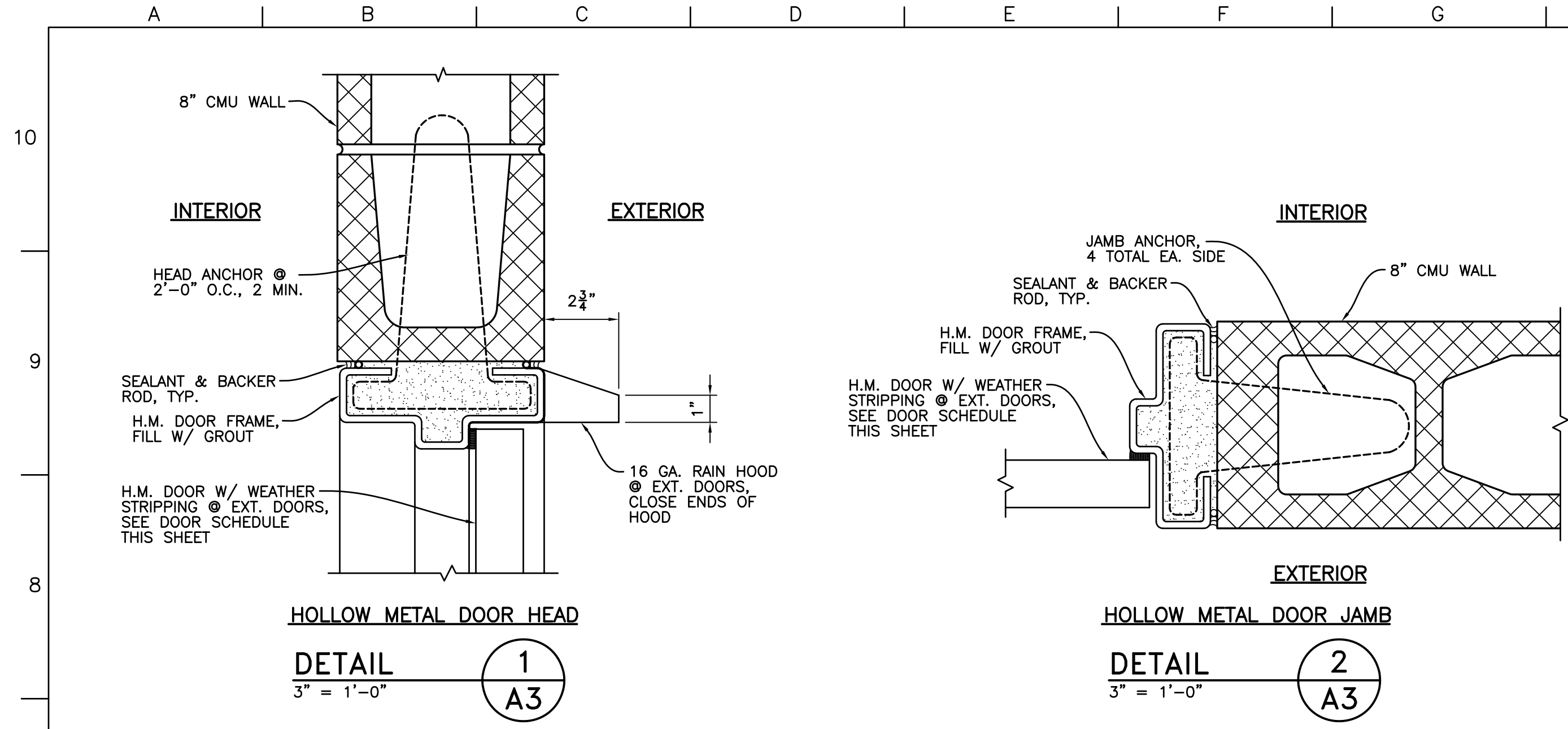
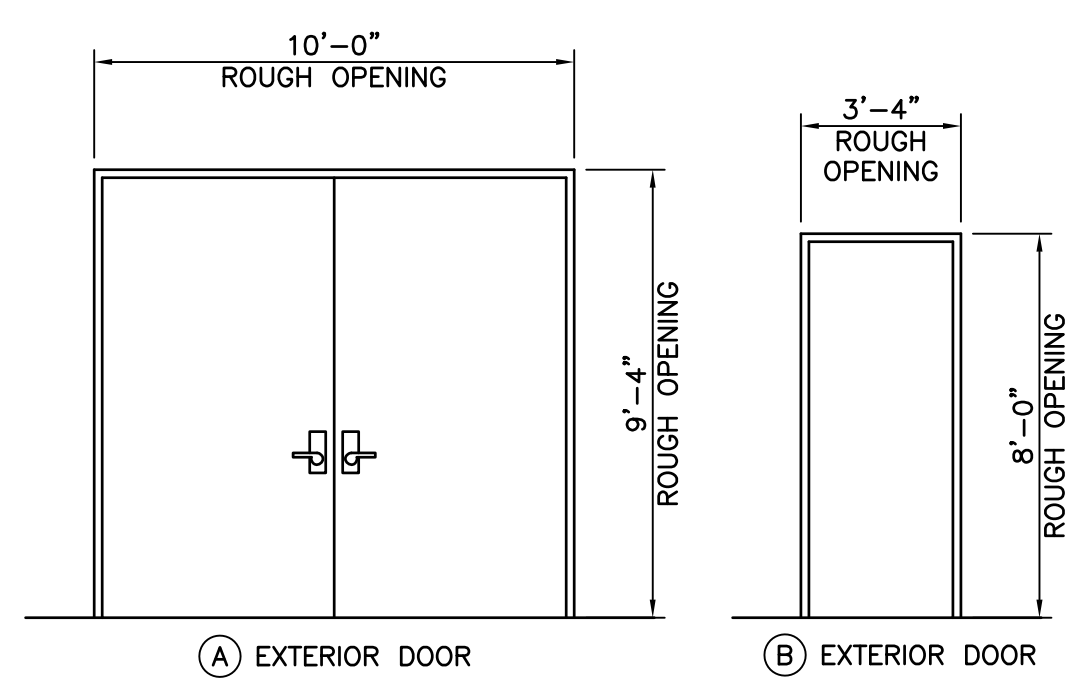
ARCHITECTURAL
FLOOR PLAN

JOB NUMBER 242-00-11-13
DRAWING NUMBER A2
SHEET NUMBER 17 OF 51
REVISION

ARCHITECTURAL FINISH SCHEDULE											
SPACE		FLOOR			WALLS			CEILING			
NO.	ROOM	MATERIAL	FINISH	COATING	MATERIAL	FINISH	COLOR	HEIGHT	MATERIAL	FINISH	COLOR
101	PUMP ROOM	CONCRETE	STEEL TROWEL	SURFACE HARDENER (1)	MASONRY	PAINT	OFF WHITE	12'-0"	NONE	N/A	N/A

FINISH NOTES:
 1. SURFACE HARDENER PER SPECIFICATION SECTION 03301.
 2. MOISTURE PROOF EXTERIOR SURFACE OF ALL BELOW-GRADE CONCRETE WALLS PER SPECIFICATION SECTION 03301.

DOOR SCHEDULE							
DOOR				FRAME		REMARKS	
DR. NO.	ROOM	TYPE	MTL.	SIZE	MTL.	SIZE	REMARKS
101	PUMP ROOM	(A)	H.M.	9'-8"x9'-2"	H.M.	2"x6"	PROVIDE ASTRAGAL
102	PUMP ROOM	(B)	H.M.	3'-0"x7'-10"	H.M.	2"x6"	NO EXTERIOR LOCK OR HANDLE
103	PUMP ROOM	(B)	H.M.	3'-0"x7'-10"	H.M.	2"x6"	NO EXTERIOR LOCK OR HANDLE



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1				

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 PROJ. MGR.: JAF

APPROVED: _____
 DATE: _____

FDG

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 Structural Engineers
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CITY of NAPA

City of Napa
Dwyer Road Pump Station
 ARCHITECTURAL
 DETAILS & SCHEDULES

JOB NUMBER 242-00-11-13
DRAWING NUMBER A3
SHEET NUMBER 18 OF 51
REVISION

Grid line markers from A to P.

GENERAL

- 1. BASIS OF DESIGN: 2010 CALIFORNIA BUILDING CODE.
2. THESE DRAWINGS SHALL BE USED IN CONJUCTION WITH THE SEPARATELY BOUND PROJECT SPECIFICATIONS.
3. ALL MATERIALS, WORKMANSHIP, TESTING AND INSPECTION SHALL CONFORM TO THE CALIFORNIA BUILDING CODE, 2010 EDITION, AND LOCAL BUILDING CODES.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS ON THE JOBSITE WITH A COMPLETE SET OF THE LATEST DRAWINGS. OMISSIONS OR DISCREPANCIES BETWEEN THE VARIOUS ELEMENTS OF THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH WORK.
5. DETAILS SHOWN ARE TYPICAL, AND APPLY TO SIMILAR CONDITIONS, UNLESS NOTED OTHERWISE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOBSITE SAFETY, INCLUDING SAFETY OF THE BUILDING AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING, BRACING, AND GUYS IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL ORDINANCES.
7. DRAWINGS SHALL NOT BE SCALED OR MEASURED FOR DIMENSIONS.
8. SPECIAL INSPECTION SHALL BE PROVIDED AS REQUIRED BY THE STATEMENT OF SPECIAL INSPECTIONS ON SHEET S2.

FOUNDATION

- 1. FOUNDATION DESIGN IS BASED ON GEOTECHNICAL INVESTIGATION REPORT PREPARED BY RANEY GEOTECHNICAL INC., DATED MARCH 7, 2012, JOB NO. 3159-054.
2. FOOTING DESIGN CAPACITIES: DEAD LOAD BEARING PRESSURE: 1,800 PSF; DEAD + LIVE LOAD BEARING PRESSURE: 2,700 PSF; DEAD + WIND / SEISMIC BEARING PRESSURE: 3,600 PSF
3. SIDES OF FOOTINGS SHOWN STRAIGHT ARE FORMED. IF SITE CONDITION ALLOWS AND GEOTECHNICAL ENGINEER CONCURS, SIDES OF FOOTINGS MAY BE FORMED OR NOT FORMED AT CONTRACTOR'S OPTION. FOOTINGS CAST DIRECTLY AGAINST EARTH REQUIRE THE FOLLOWING PRECAUTIONS: A) SLOPE SIDES OF EXCAVATIONS AS APPROVED BY THE GEOTECHNICAL ENGINEER, B) CLEAN UP OF SLOUGHING BEFORE, DURING AND AFTER PLACING CONCRETE, C) ADEQUATE COVER MUST BE PROVIDED FOR ALL REBAR. ADD 1" TO ALL SIDES OF FOOTING DIMENSIONS WHICH ARE CAST AGAINST EARTH.

CONCRETE

- 1. ALL CONCRETE SHALL BE MIXED AND PLACED IN ACCORDANCE WITH ACI 318-08. USE MIXES WITH MAXIMUM AGGREGATE SIZE APPROPRIATE FOR FORM REBAR CLEARANCES TO BE ENCOUNTERED (SEE A.C.I.)
2. THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED BY THE CONTRACTOR AND REVIEWED BY THE CITY'S TESTING LABORATORY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE REQUIRED DESIGN STRENGTH. SUBMITTAL DATA FROM 30 PREVIOUS COMPRESSION TESTS ON EACH PROPOSED MIX WILL BE REQUIRED FOR REVIEW BEFORE MIX CAN BE APPROVED.
3. ALL CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28-DAY STRENGTHS, U.N.O.
STRUCTURE FOOTINGS, SLABS, AND WALLS 4,000 PSI
MISCELLANEOUS SITE CONCRETE 3,000 PSI
4. SCHEDULING OF WORK MAY REQUIRE DESIGN STRENGTH TO BE ACHIEVED IN LESS THAN 28 DAYS. CONTRACTOR SHALL COORDINATE MIX DESIGN AND CONCRETE CYLINDER BREAKS WITH THE CITY'S TESTING LABORATORY.
5. CONSTRUCTION JOINTS SHALL BE INTENTIONALLY ROUGHENED BY SAND BLASTING OR MECHANICAL MEANS AND CLEANED BEFORE NEW POUR. LOCATIONS SHALL BE AS SHOWN OR APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
6. BACKFILLING OF BELOW-GRADE WALLS SHALL NOT BEGIN UNTIL THE CONCRETE HAS REACHED ITS REQUIRED DESIGN STRENGTH.

CONCRETE UNIT MASONRY

- 1. ALL CONCRETE UNIT MASONRY SHALL BE GROUTED SOLID.
2. MASONRY UNIT DESIGN STRENGTH f'm = 1,500 PSI.
3. THE PROPOSED MATERIALS AND GROUT AND MORTAR MIX DESIGNS SHALL BE FULLY DOCUMENTED BY THE CONTRACTOR AND REVIEWED BY THE CITY'S TESTING LABORATORY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE REQUIRED STRENGTH.
4. VERIFICATION OF f'm SHALL BE BY MEANS OF THE UNIT STRENGTH METHOD AS OUTLINED IN CBC SECTION 2105.2.2.1.

REINFORCING STEEL

- 1. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60 DEFORMED BARS, U.N.O. REINFORCING STEEL TO BE WELDED SHALL BE ASTM A706.
2. ALL REINFORCING STEEL AND EMBEDMENTS TO BE HELD SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO ALLOW WALKING ON REINFORCEMENT.
3. WELDING OF REINFORCING IS PROHIBITED UNLESS EXPLICITLY SHOWN ON THE DRAWINGS OR APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
4. PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE, PLACE ONLY AS SHOWN OR APPROVED, STAGGER SPLICES WHERE POSSIBLE.

STRUCTURAL STEEL

- 1. MATERIAL SPECIFICATIONS:
WIDE FLANGE BEAMS: ASTM A992, Fy = 50 KSI
SQUARE AND RECTANGULAR HSS SECTIONS: ASTM A500, GRADE B, Fy = 46 KSI
ROUND PIPE: ASTM A53, GRADE B, Fy = 35 KSI
ALL OTHER ROLLED SHAPES AND PLATES: ASTM A36, Fy = 36 KSI
ALL BASE PLATES, ANGLES AND MISCELLANEOUS STEEL: ASTM A36, Fy = 36 KSI U.N.O.
MACHINE BOLTS: ASTM A307, U.N.O.
HIGH STRENGTH BOLTS: ASTM A325, U.N.O.
HEADED ANCHOR STUDS: ASTM A108
2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS
3. ALL WELDING SHALL CONFORM TO AWS D1.1 AND SHALL BE PERFORMED BY CERTIFIED WELDERS.
4. ALL GROOVE AND BUTT WELDS SHALL BE COMPLETE PENETRATION U.N.O.
5. BOLT HOLES SHALL BE NO MORE THAN 1/16" OVERSIZE, U.N.O.
6. CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS PER SPECIFICATIONS TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.

PREFABRICATED METAL ROOF TRUSSES

- 1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE METAL ROOF TRUSSES TO BE INSTALLED AS SHOWN ON THE CONTRACT DRAWINGS, INCLUDING LAYOUT, SIZE OF MEMBERS, AND CONNECTION DETAILS. IN ADDITION TO THE ABOVE DRAWINGS, CALCULATIONS SHOWING ALL STRESSES AND DEFLECTIONS CAUSED BY DEAD, LIVE, WIND AND/OR SEISMIC LOADS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. DRAWINGS AND CALCULATIONS SHALL BE SIGNED BY A REGISTERED CIVIL ENGINEER IN THE STATE OF CALIFORNIA.
2. METAL TRUSS DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH AN ICC-ES REPORT AND APPLICABLE REQUIREMENTS OF THE 2010 CBC.
3. ROOF LOADS SHALL BE AS FOLLOWS:
TOP CHORD DEAD LOAD 8 PSF (NOT INCLUDING TRUSS SELF-WEIGHT)
TOP CHORD LIVE LOAD 20 PSF (REDUCIBLE)
BOTTOM CHORD DEAD LOAD 5 PSF (NOT INCLUDING TRUSS SELF-WEIGHT)
BOTTOM CHORD LIVE LOAD 10 PSF (NON-CURRENT WITH TOP CHORD LIVE LOAD)
WIND LOAD 20 PSF (VERTICAL), 7 PSF (HORIZONTAL); APPLY LOADS CONCURRENTLY AND IN WORST CASE DIRECTION AS NOTED ON THE DRAWINGS
SEISMIC LOAD

METAL DECKING

- 1. METAL DECKING SHALL BE 20 GA., 1 1/8" DEEP x 36" WIDE VERCOR AS MANUFACTURED BY VERCOR MANUFACTURING CO., PHOENIX, ARIZONA (ICC-ES REPORT NO. ESR-1735P) OR APPROVED EQUAL. DECK PANELS ARE TO BE THREE-SPAN CONTINUOUS WHEREVER POSSIBLE, ONE-SPAN ONLY WHERE UNAVOIDABLE. DECKING SHALL BE FORMED FROM STEEL SHEETS HAVING A MINIMUM YIELD STRENGTH OF 80,000 PSI AND CONFORMING TO ASTM A653, S5 GRADE 80. THE STEEL SHALL HAVE A METAL PROTECTIVE COATING OF ZINC CONFORMING TO LIGHT COMMERCIAL DECKING.
2. SCREW METAL DECK TO SUPPORTS AT ROOF AS FOLLOWS (U.N.O.):
A. WHERE SUPPORTS ARE PERPENDICULAR TO FLUTES: SCREWS AT EVERY OTHER FLUTE AT EACH INTERMEDIATE SUPPORT AND EACH SHEET END (MIN. OF 5 SCREWS PER 3'-0" SHEET). SCREWS SHALL BE #12-14x 3/4" LONG (MIN.) TEK 3.
B. WHERE SUPPORTS ARE PARALLEL TO FLUTES: SCREWS AT 12" O.C. SCREWS SHALL BE #12-14x 3/4" LONG (MIN.) TEK 3.
C. DECK PANELS SHALL BE SIDELAPPED USING THE "NORMAL" ORIENTATION. SIDELAPS SHALL BE SCREWED BETWEEN SUPPORTS AT 12" O.C. SCREWS SHALL BE #12-14x 3/4" TEK 1.
3. SCREWS SHALL BE TEK SCREWS AS MANUFACTURED BY ITW BUILDEX, ITASCA, ILLINOIS OR APPROVED EQUAL.
4. METAL STUD FRAMING MEMBERS, BLOCKING AND BRACING SHALL BE SUPPLIED BY A MANUFACTURER WHO IS A MEMBER OF THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA). STEEL SHALL BE ASTM A653, GRADE 33 FOR 18 GA. AND THINNER MATERIAL AND GRADE 50 FOR 16 GA. AND THICKER MATERIAL. THE STEEL SHALL HAVE A MINIMUM ZINC COATING (HOT-DIP GALVANIZED) OF G60.

DEFERRED SUBMITTALS/SHOP DRAWINGS

- THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW:
1. CONCRETE MIX DESIGNS.
2. UNIT MASONRY SHOP DRAWINGS, GROUT MIX DESIGNS AND CERTIFICATIONS OF COMPLIANCE.
3. BAR REINFORCING STEEL SHOP DRAWINGS.
4. STRUCTURAL STEEL & MISCELLANEOUS METAL SHOP DRAWINGS.
5. WELDING PROCEDURE SPECIFICATIONS, WELDING ELECTRODE DATA, & WELDER QUALIFICATIONS.
6. PREFABRICATED METAL ROOF TRUSS SHOP DRAWINGS.
7. METAL DECKING SHOP DRAWINGS.
8. PREFINISHED STANDING SEAM METAL ROOF AND SOFFIT LINER PANELS.
9. ANCHORAGE OF PUMPS, GENERATOR, AND OTHER ELECTRICAL EQUIPMENT.

STRUCTURAL DESIGN PARAMETERS

Table with 2 columns: DESIGN TYPE and VALUE. Includes items like DESIGN DEAD LOADS (15 PSF), DESIGN LIVE LOADS (20 PSF), DESIGN WIND LOADS (85 MPH), DESIGN EARTHQUAKE LOADS (D), etc.

ABBREVIATIONS

Table with 4 columns: SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION. Lists abbreviations like AND, DIAMETER, NUMBER, etc.

Table with columns: NO., ZONE, REVISIONS, BY, DATE. Includes a scale indicator and drawing information.

Professional Engineer stamp for Jeffrey A. Finn, State of California, Civil & Structural. Includes approval and date lines.

Logo and contact information for Finn Design Group, Inc., Structural Engineers, 5000 Hopyard Road, Suite 300.



Project title: City of Napa, Dwyer Road Pump Station. Structural General Notes & Specifications.

Table with columns: JOB NUMBER (242-00-11-13), DRAWING NUMBER (S1), SHEET NUMBER (19 OF 51), REVISION.

EXHIBIT G
SUBRECIPIENT PROFILE

STATEMENT OF SPECIAL INSPECTIONS

SPECIAL INSPECTION
- INSPECTION OF THE MATERIALS, INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS REQUIRING SPECIAL EXPERTISE TO ENSURE COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THE 2010 CALIFORNIA BUILDING CODE (CBC). THIS INSPECTION IS IN ADDITION TO THOSE REQUIRED BY SECTION 110 OF THE 2010 CBC.

SPECIAL INSPECTOR
- THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. ALL SPECIAL INSPECTIONS SHALL BE PERFORMED BY A CERTIFIED MEMBER OF THE CONSTRUCTION MANAGEMENT TEAM.

DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR
- THE SPECIAL INSPECTOR SHALL INSPECT THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.

- SPECIAL INSPECTORS SHALL KEEP RECORDS OF ALL INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OR ARCHITECT OF RECORD, AND OTHER DESIGNATED PERSONS. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN IF UNCORRECTED, TO THE ATTENTION OF THE BUILDING OFFICIAL AND ENGINEER OR ARCHITECT OF RECORD.

- THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.

REQUIRED SPECIAL INSPECTIONS
- ITEMS REQUIRING SPECIAL INSPECTION SHALL BE AS FOLLOWS:

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION TASK	CONTINUOUS ¹	PERIODIC ¹	REFERENCED STANDARD ²	CBC SECTION
1. Material verification of high-strength bolts, nuts and washers:				
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	-	X	Applicable ASTM material specifications; AISC 360, Section A3.3	-
b. Manufacturer's certificate of compliance required.	-	X	-	-
2. Inspection of high-strength bolting:				
a. Bearing-type connections.	-	X	AISC 360, Section M2.5	1704.3.3
b. Slip-critical connections.	X	X		
3. Material verification of structural steel:				
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	-	-	ASTM A6 or ASTM A568	1708.4
b. Manufacturer's certified mill test reports.	-	-	ASTM A6 or ASTM A568	-
4. Material verification of weld filler materials:				
a. Identification markings to conform to AWS specification in the approved construction documents.	-	-	AISC 360, Section A3.5	-
b. Manufacturer's certificate of compliance required.	-	-	-	-
5. Inspection of welding:				
a. Structural steel:				
1) Complete and partial penetration groove welds.	X	-		
2) Multipass fillet welds.	X	-	AWS D1.1	1704.3.1
3) Single-pass fillet welds > 5/16"	X	-		
4) Single-pass fillet welds <= 5/16"	-	X		
5) Floor and roof deck welds.	-	X	AWS D1.3	-
b. Reinforcing steel:				
1) Verification of weldability of reinforcing steel other than ASTM A 706.	-	X		
2) Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls and shear reinforcement.	X	-	AWS D1.4 ACI 318: 3.5.2	-
3) Shear reinforcement.	X	-		
4) Other reinforcing steel.	-	X		
6. Inspection of steel frame joint details for compliance with approved construction documents:				
a. Details such as bracing and stiffening.	-	-	-	1704.3.2
b. Member locations.	-	-		
c. Application of joint details at each connection.	-	-		

1. Refer to CBC Section 1702 for definition of continuous and periodic inspections.
2. Where applicable, see also CBC Section 1707.1, Special inspection for seismic resistance.

REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS ¹	PERIODIC ¹
1. Verify materials below footings are adequate to achieve the design bearing capacity.	-	X
2. Verify excavations are extended to proper depth and have reached proper material.	-	X
3. Perform classification and testing of controlled fill materials.	-	X
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of controlled fill.	X	-
5. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly.	-	X

1. Refer to CBC Section 1702 for definition of continuous and periodic inspections.

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DESIGNED BY : TEE

PROJ. MGR. : JAF



APPROVED : _____
DATE : _____

Finn Design Group, Inc.
Structural Engineers
5000 Hopyard Road, Suite 300
Pleasanton, CA 94588
OFFICE (925) 737-1600
FAX (925) 737-1601

CITY OF NAPA

City of Napa
Dwyer Road Pump Station

STRUCTURAL
STATEMENT OF SPECIAL INSPECTIONS

JOB NUMBER 242-00-11-13
DRAWING NUMBER S2
SHEET NUMBER 20 OF 51
REVISION

REQUIRED VERIFICATION AND INSPECTION OF STRUCTURAL MASONRY

VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
	CONTINUOUS ¹	PERIODIC ¹	CBC SECTION	ACI 530/ASCE 5/TMS 402 ² ACI 530.1/ASCE 6/TMS 602 ²
1. From the beginning of masonry construction, the following shall be verified to ensure compliance:	-	-	-	-
a. On-site storage of materials.	-	X	-	Art. 1.7
b. Proportions of site-prepared mortar.	-	X	-	Art. 2.6A
c. Placement of masonry units and construction of mortar joints.	-	X	-	Art. 3.3B
d. Location of reinforcement, connectors, prestressing tendons and anchorages.	-	X	-	Art. 3.4, 3.6A
e. Prestressing technique.	-	X	-	Art. 3.6B
f. Grade and size of prestressing tendons and anchorages.	-	X	-	Art. 2.4B, 2.4H
g. Block layout (dimensions).	-	X	-	-
2. The inspection program shall verify:				
a. Size and location of structural elements.	-	X	1708.1	-
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	X	-	-	Sec. 1.2.2(e) 2.1.4, 3.1.6
c. Specified size, grade and type of reinf.	-	X	-	Sec. 1.13 Art. 2.4, 3.4
d. Welding of reinforcing bars.	X	-	-	Sec. 2.1.10.7.2, 3.3.3.4(b)
e. Protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).	-	X	2104.3, 2104.4	Art. 1.8C, 1.8D
f. Application and measurement of prestressing force.	X	-	-	Art. 3.6B
g. Preparation of control joints and construction joints.	-	X	-	-
3. Prior to grouting, the following shall be verified to ensure compliance:				
a. Grout space is clean.	X	-	-	Art. 3.2D
b. Placement of reinforcement, connectors and prestressing tendons and anchorages.	-	X	-	Sec. 1.13 Art. 3.4
c. Proportions of site-prepared or site-delivered grout and prestressing grout for bonded tendons.	-	X	1708.1	Art. 2.6B
d. Construction of mortar joints.	-	X	-	Art. 3.3B
4. Grout placement shall be verified to ensure compliance with code and construction document provisions.	X	-	-	Table 1.16.1 Art. 3.5
a. Grouting of prestressing bonded tendons.	X	-	-	Art. 3.6C
b. Adequacy of vibration equipment and operations.	-	X	-	Art. 3.5E
5. Preparation of any required grout specimens, mortar specimens and/or prisms shall be observed.	X	-	2105.2.2, 2105.3	Art. 1.4
6. Compliance with required inspection provisions of the construction documents and the approved submittals and certificates of compliance shall be verified.	-	X	1708.1	Art. 1.5
7. Verification of f'm prior to construction and every 5,000 sq. ft. during construction.	-	X	1708.1	Art. 1.6

1. Refer to CBC Section 1702 for definition of continuous and periodic inspections.
2. The specific standards referenced are those listed in CBC Chapter 35.

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION TASK	CONTINUOUS ¹	PERIODIC ¹	REFERENCED STANDARD ²	CBC SECTION
1. Inspection of reinforcing steel, including prestressing tendons, and placement.	-	X	ACI 318: 3.5, 7.1-7.7	1913.4
2. Inspection of reinforcing steel welding in accordance with CBC Table 1704.3, Item 5b.	-	-	AWS D1.4 ACI 318: 3.5.2	-
3. Inspect bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased.	X	-	-	1911.5
4. Verifying use of required design mix.	-	X	ACI 318: Ch. 4, 5.2-5.4	1904.2.2, 1913.2, 1913.3
5. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	-	ASTM C172 ASTM C31 ACI 318: 5.6, 5.8	1913.10
6. Inspection of concrete and shotcrete placement for proper application techniques.	X	-	ACI 318: 5.9, 5.10	1913.6, 1913.7, 1913.8
7. Inspection for maintenance of specified curing temperature and techniques.	-	X	ACI 318: 5.11-5.13	1913.9
8. Verification of in-situ concrete strength, prior to stressing of tendons in posttensioned concrete and prior to removal of shores and forms from beams and structural slabs.	-	X	ACI 318: 6.2	-
9. Inspect formwork for shape, location and dimensions of the concrete member being formed.	-	X	ACI 318: 6.1.1	-

1. Refer to CBC Section 1702 for definition of continuous and periodic inspections.
2. Where applicable, see also CBC Section 1707.1, Special inspection for seismic resistance.

REQUIRED VERIFICATION AND INSPECTION OF POST-INSTALLED CONCRETE ANCHORS

VERIFICATION AND INSPECTION TASK	CONTINUOUS ¹	PERIODIC ¹	ICC REPORT REFERENCE
EXPANSION ANCHORS			
1. During anchor installation, verify the following:			
a. Anchor type	X	-	Simpson Strong-Bolt 2 ESR-3037 or Hiiti Kwik Bolt TZ ESR-1917
b. Anchor dimensions	X	-	
c. Hole cleanliness/cleaning procedures	X	-	
d. Concrete type/compressive strength/thickness	X	-	
e. Drill bit diameter	X	-	
f. Anchor embedment depth	X	-	
g. Edge/End distance(s)/Anchor spacing(s)	X	-	
h. Tightening Torque	X	-	
i. Compliance with the appropriate ICC Report and manufacturer's published installation instructions, as well as the approved construction documents.	X	-	
EPOXY ANCHORS			
1. During the initial installation of a series of anchors of the same type and size, installed by the same construction personnel, verify the following ² :			
a. Adhesive name, expiration date, proper nozzle	-	X	Simpson 'SET-XP' ESR-2508 or Hiiti HIT-HY 150 MAX-SD ESR-3013
b. Anchor material, grade, diameter, length and cleanliness	-	X	
c. Hole cleanliness/cleaning procedures	-	X	
d. Concrete type/compressive strength/thickness	-	X	
e. Drill bit diameter	-	X	
f. Anchor embedment depth	-	X	
g. Edge/End distance(s)/Anchor spacing(s)	-	X	
h. Compliance with the appropriate ICC Report and manufacturer's published installation instructions, as well as the approved construction documents.	-	X	

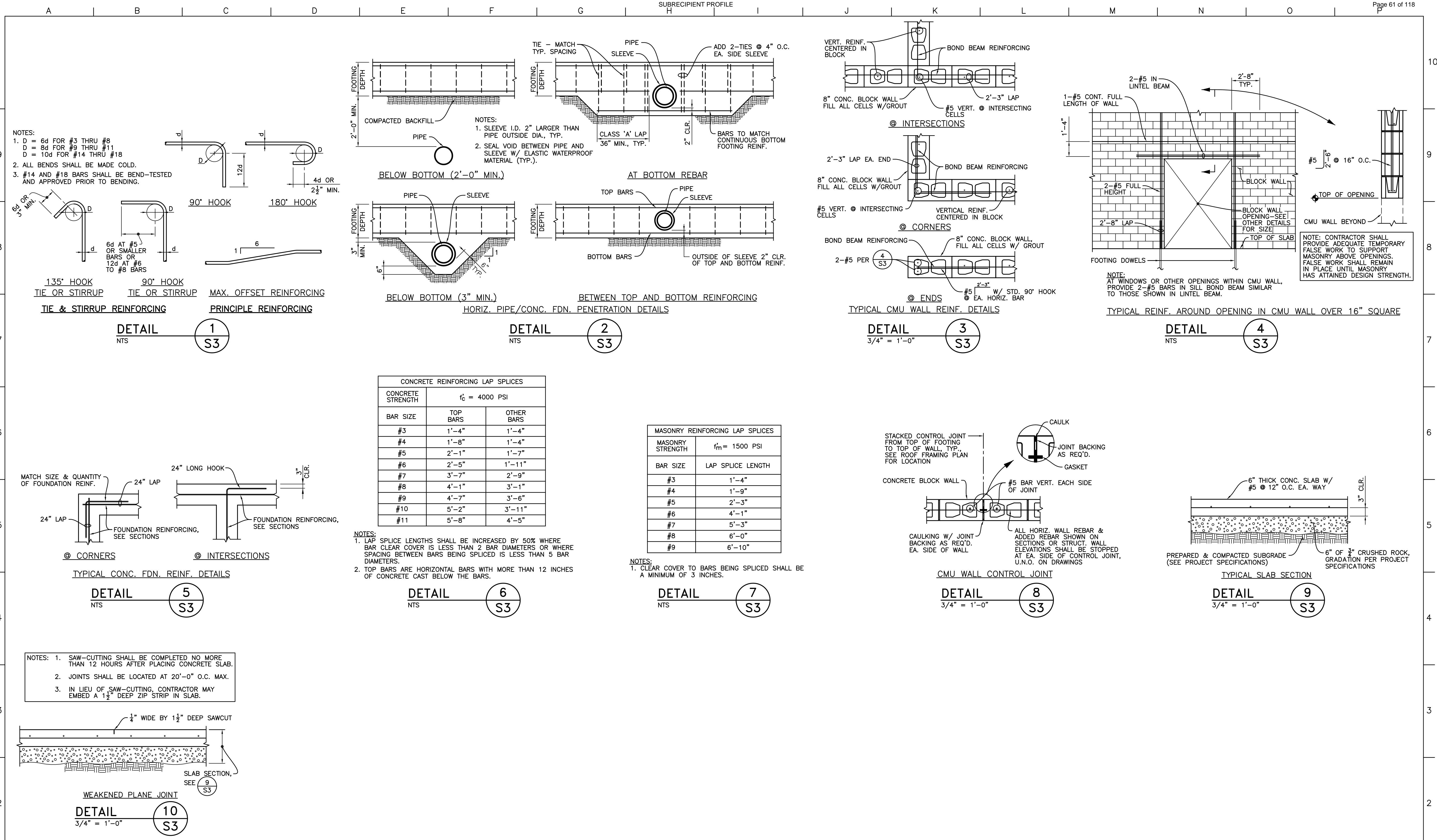
1. Refer to CBC Section 1702 for definition of continuous and periodic inspections.
2. Any change in anchor product or personnel performing the installation requires an initial reinspection. For ongoing installations over an extended period, the special inspector must make regular inspections to confirm handling and installation of the product.

REQUIRED VERIFICATION AND INSPECTION OF POST-INSTALLED MASONRY ANCHORS

VERIFICATION AND INSPECTION TASK	CONTINUOUS ¹	PERIODIC ¹	ICC REPORT REFERENCE
EXPANSION ANCHORS			
1. During anchor installation, verify the following:			
a. Anchor type	X	-	Simpson Wedge-All ESR-1396 or Hiiti Kwik Bolt 3 ESR-1385
b. Anchor dimensions	X	-	
c. Hole cleanliness/cleaning procedures	X	-	
d. Grout and mortar compressive strengths	X	-	
e. Masonry unit type/compliance with ASTM C90 prism compressive strength (where required)	X	-	
f. Drill bit diameter	X	-	
g. Anchor embedment depth	X	-	
h. Edge/End distance(s)/Anchor spacing(s)	X	-	
i. Tightening Torque	X	-	
j. Compliance with the appropriate ICC Report and manufacturer's published installation instructions, as well as the approved construction documents.	X	-	
EPOXY ANCHORS			
1. During anchor installation, verify the following:			
a. Adhesive name, expiration date, proper nozzle	X	-	Simpson 'SET' ESR-1772 or Hiiti HIT HY 150 MAX ESR-1967
b. Anchor material, grade, diameter, length and cleanliness	X	-	
c. Hole cleanliness/cleaning procedures	X	-	
d. Grout and mortar compressive strengths	X	-	
e. Masonry unit type/compliance with ASTM C90 prism compressive strength (where required)	X	-	
f. Drill bit diameter	X	-	
g. Anchor embedment depth	X	-	
h. Edge/End distance(s)/Anchor spacing(s)	X	-	
i. Compliance with the appropriate ICC Report and manufacturer's published installation instructions, as well as the approved construction documents.	X	-	

1. Refer to CBC Section 1702 for definition of continuous and periodic inspections.

EXHIBIT G
SUBRECIPIENT PROFILE



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APPROVED : _____

DATE : _____

Finn Design Group, Inc.
Structural Engineers
5000 Hopyard Road, Suite 300
Pleasanton, CA 94588
OFFICE (925) 737-1600
FAX (925) 737-1601



City of Napa
Dwyer Road Pump Station

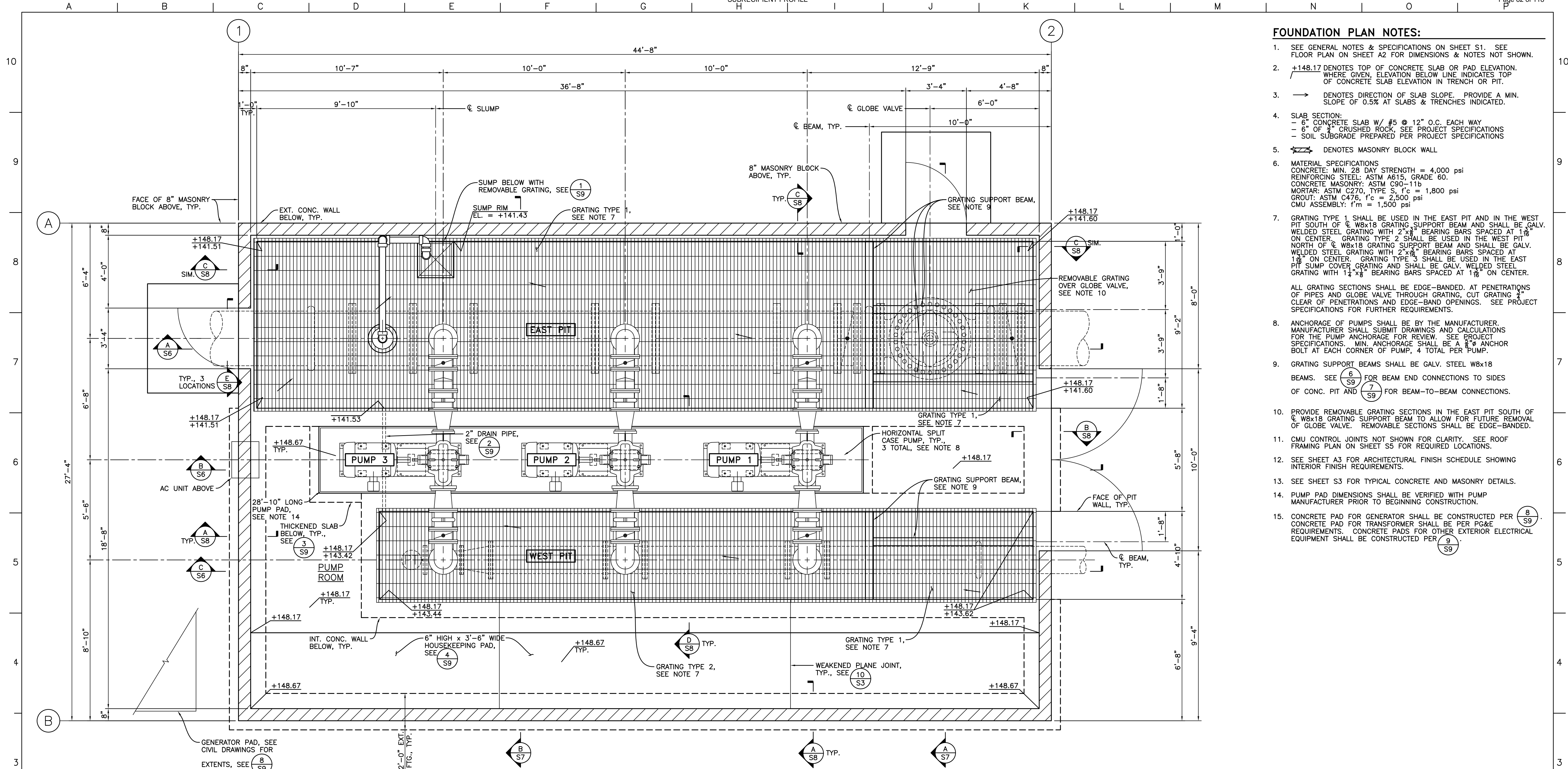
STRUCTURAL
TYPICAL DETAILS

JOB NUMBER
242-00-11-13

DRAWING NUMBER
S3

SHEET NUMBER
21 OF **51**

REVISION



FOUNDATION PLAN
3/8" = 1'-0"

- FOUNDATION PLAN NOTES:**
- SEE GENERAL NOTES & SPECIFICATIONS ON SHEET S1. SEE FLOOR PLAN ON SHEET A2 FOR DIMENSIONS & NOTES NOT SHOWN.
 - +148.17 DENOTES TOP OF CONCRETE SLAB OR PAD ELEVATION. WHERE GIVEN, ELEVATION BELOW LINE INDICATES TOP OF CONCRETE SLAB ELEVATION IN TRENCH OR PIT.
 - DENOTES DIRECTION OF SLAB SLOPE. PROVIDE A MIN. SLOPE OF 0.5% AT SLABS & TRENCHES INDICATED.
 - SLAB SECTION:
- 6" CONCRETE SLAB W/ #5 @ 12" O.C. EACH WAY
- 6" OF 3/4" CRUSHED ROCK, SEE PROJECT SPECIFICATIONS
- SOIL SUBGRADE PREPARED PER PROJECT SPECIFICATIONS
 - ▨ DENOTES MASONRY BLOCK WALL
 - MATERIAL SPECIFICATIONS
CONCRETE: MIN. 28 DAY STRENGTH = 4,000 psi
REINFORCING STEEL: ASTM A615, GRADE 60.
CONCRETE MASONRY: ASTM C90-11b
MORTAR: ASTM C270, TYPE S, f'c = 1,800 psi
GROUT: ASTM C476, f'c = 2,500 psi
CMU ASSEMBLY: f'm = 1,500 psi
 - GRATING TYPE 1 SHALL BE USED IN THE EAST PIT AND IN THE WEST PIT SOUTH OF ̄ W8x18 GRATING SUPPORT BEAM AND SHALL BE GALV. WELDED STEEL GRATING WITH 2"x3" BEARING BARS SPACED AT 1 1/8" ON CENTER. GRATING TYPE 2 SHALL BE USED IN THE WEST PIT NORTH OF ̄ W8x18 GRATING SUPPORT BEAM AND SHALL BE GALV. WELDED STEEL GRATING WITH 2"x3" BEARING BARS SPACED AT 1 1/8" ON CENTER. GRATING TYPE 3 SHALL BE USED IN THE EAST PIT SUMP COVER GRATING AND SHALL BE GALV. WELDED STEEL GRATING WITH 1 1/2"x3" BEARING BARS SPACED AT 1 1/8" ON CENTER.

ALL GRATING SECTIONS SHALL BE EDGE-BANDED. AT PENETRATIONS OF PIPES AND GLOBE VALVE THROUGH GRATING, CUT GRATING 1/2" CLEAR OF PENETRATIONS AND EDGE-BAND OPENINGS. SEE PROJECT SPECIFICATIONS FOR FURTHER REQUIREMENTS.
 - ANCHORAGE OF PUMPS SHALL BE BY THE MANUFACTURER. MANUFACTURER SHALL SUBMIT DRAWINGS AND CALCULATIONS FOR THE PUMP ANCHORAGE FOR REVIEW. SEE PROJECT SPECIFICATIONS. MIN. ANCHORAGE SHALL BE A 5/8" ANCHOR BOLT AT EACH CORNER OF PUMP, 4 TOTAL PER PUMP.
 - GRATING SUPPORT BEAMS SHALL BE GALV. STEEL W8x18 BEAMS. SEE (6) S9 FOR BEAM END CONNECTIONS TO SIDES OF CONC. PIT AND (7) S9 FOR BEAM-TO-BEAM CONNECTIONS.
 - PROVIDE REMOVABLE GRATING SECTIONS IN THE EAST PIT SOUTH OF ̄ W8x18 GRATING SUPPORT BEAM TO ALLOW FOR FUTURE REMOVAL OF GLOBE VALVE. REMOVABLE SECTIONS SHALL BE EDGE-BANDED.
 - CMU CONTROL JOINTS NOT SHOWN FOR CLARITY. SEE ROOF FRAMING PLAN ON SHEET S5 FOR REQUIRED LOCATIONS.
 - SEE SHEET A3 FOR ARCHITECTURAL FINISH SCHEDULE SHOWING INTERIOR FINISH REQUIREMENTS.
 - SEE SHEET S3 FOR TYPICAL CONCRETE AND MASONRY DETAILS.
 - PUMP PAD DIMENSIONS SHALL BE VERIFIED WITH PUMP MANUFACTURER PRIOR TO BEGINNING CONSTRUCTION.
 - CONCRETE PAD FOR GENERATOR SHALL BE CONSTRUCTED PER (8) S9. CONCRETE PAD FOR TRANSFORMER SHALL BE PER PG&E REQUIREMENTS. CONCRETE PADS FOR OTHER EXTERIOR ELECTRICAL EQUIPMENT SHALL BE CONSTRUCTED PER (9) S9.

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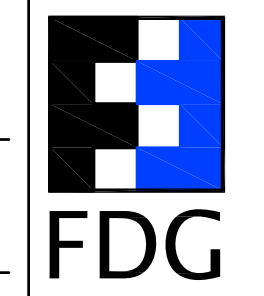
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DESIGNED BY: TEE
PROJ. MGR.: JAF



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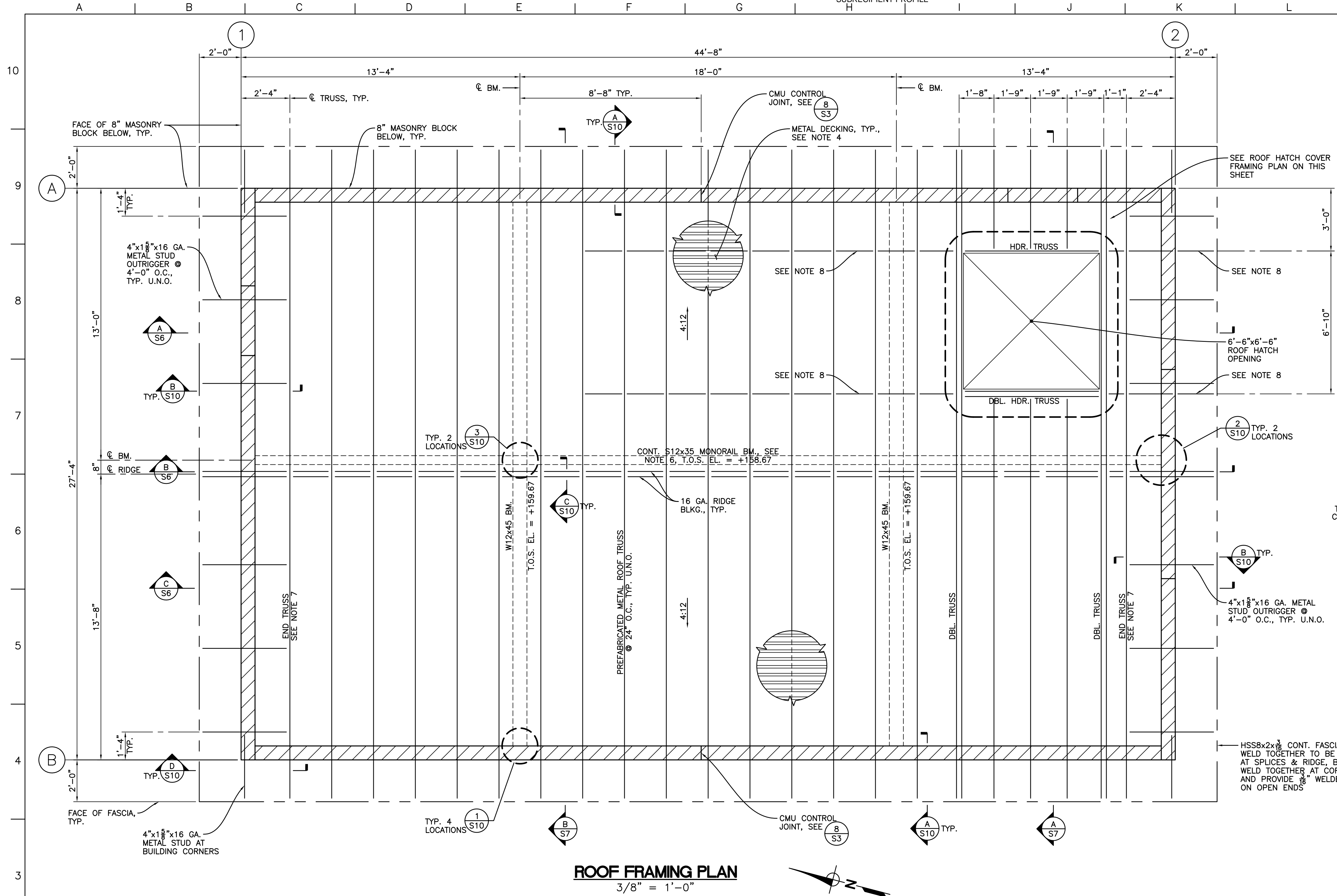
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Structural Engineers
5000 Hopyard Road, Suite 300
Pleasanton, CA 94588
OFFICE (925) 737-1600
FAX (925) 737-1601



City of Napa
Dwyer Road Pump Station

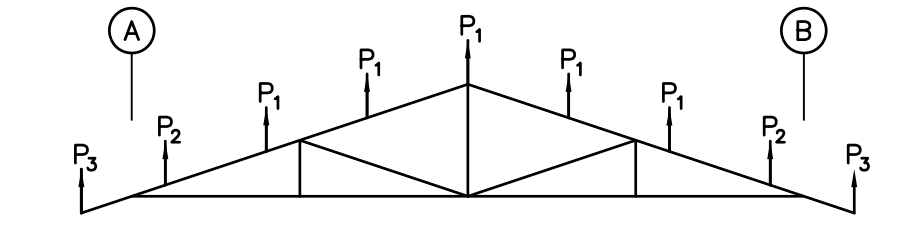
STRUCTURAL
FOUNDATION PLAN

JOB NUMBER 242-00-11-13
DRAWING NUMBER S4
SHEET NUMBER 22 OF 51
REVISION



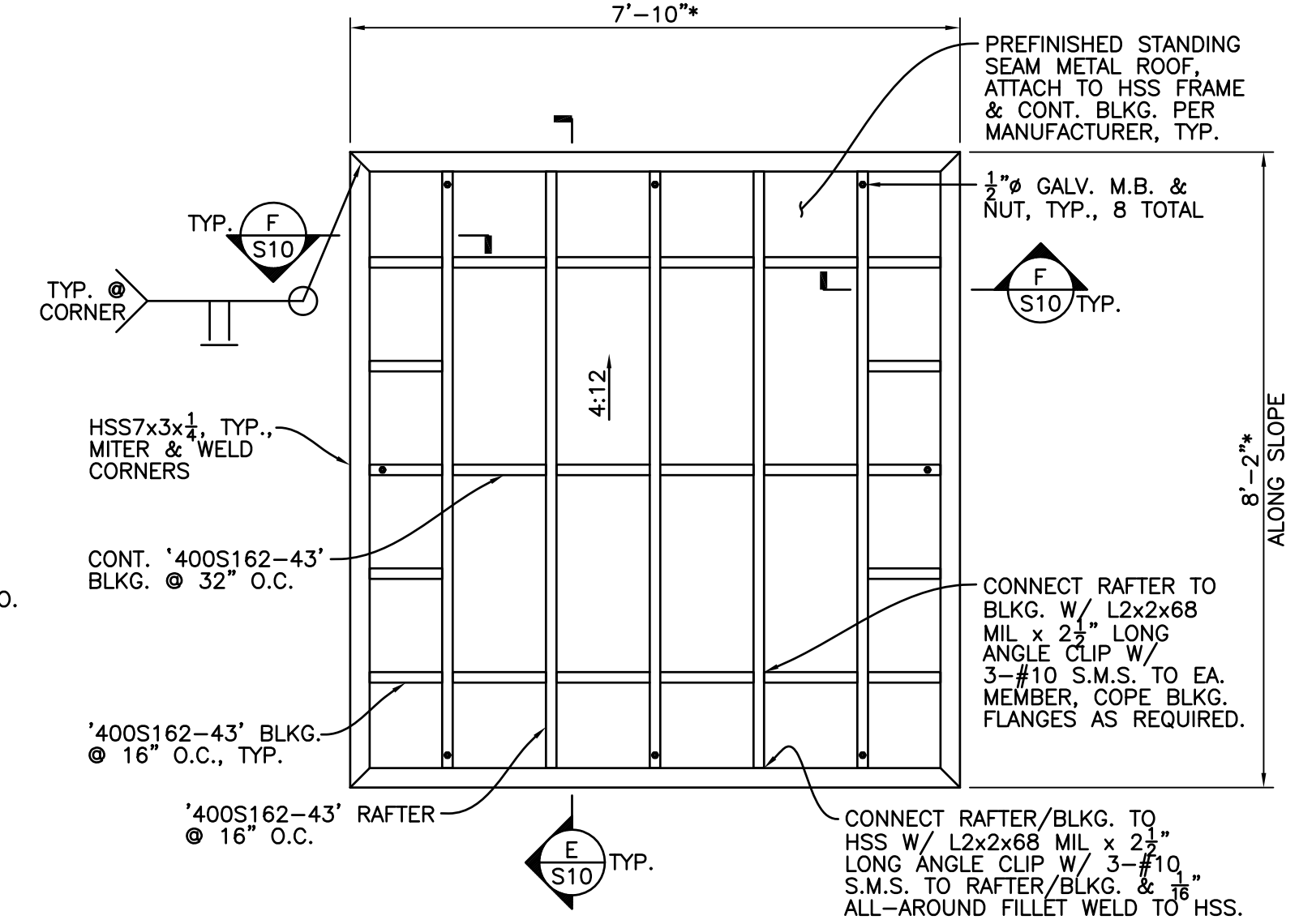
ROOF FRAMING PLAN NOTES:

- SEE GENERAL NOTES & SPECIFICATIONS ON SHEET S1.
- $\leftarrow 4:12$ DENOTES DIRECTION AND SLOPE OF ROOF.
- \leftarrow DENOTES MASONRY BLOCK WALL.
- METAL DECKING SHALL BE AS SPECIFIED ON SHEET S1 AND PER THE PROJECT SPECIFICATIONS.
- ALL TRUSSES SHALL BE CAPABLE OF CARRYING A MINIMUM LATERAL SEISMIC LOAD OF 1,800 LBS. (SERVICE LOAD LEVEL) EVENLY DISTRIBUTED TO THE TRUSS TOP CHORD.
- PROVIDE WHEEL STOPS AT EACH END OF S12x35 MONORAIL BEAM.
- END TRUSS LOADING FROM OUTRIGGERS AND FASCIAS SHALL BE AS FOLLOWS:



LOAD	DEAD	LIVE
P ₁	80 LBS.	80 LBS.
P ₂	73 LBS.	73 LBS.
P ₃	33 LBS.	33 LBS.

- PROVIDE 4"x2"x16 GA. METAL STUD BLOCKING BETWEEN TRUSSES WHERE SHOWN. CONNECT ENDS TO TRUSSES AS SHOWN IN (B S10). INSTALL 30'-4" LONG 'CMST12' STRAP OVER BLOCKING W/ #12 SCREWS @ 3 1/2" O.C., STAGGERED, INTO BLOCKING. ATTACH METAL DECKING TO BLOCKING W/ #12 SCREWS @ 4" O.C.



*NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD PRIOR TO FABRICATING HATCH COVER

ROOF HATCH COVER FRAMING PLAN
1/2" = 1'-0"

ROOF FRAMING PLAN
3/8" = 1'-0"

NO.	ZONE	REVISIONS	BY	DATE
1				

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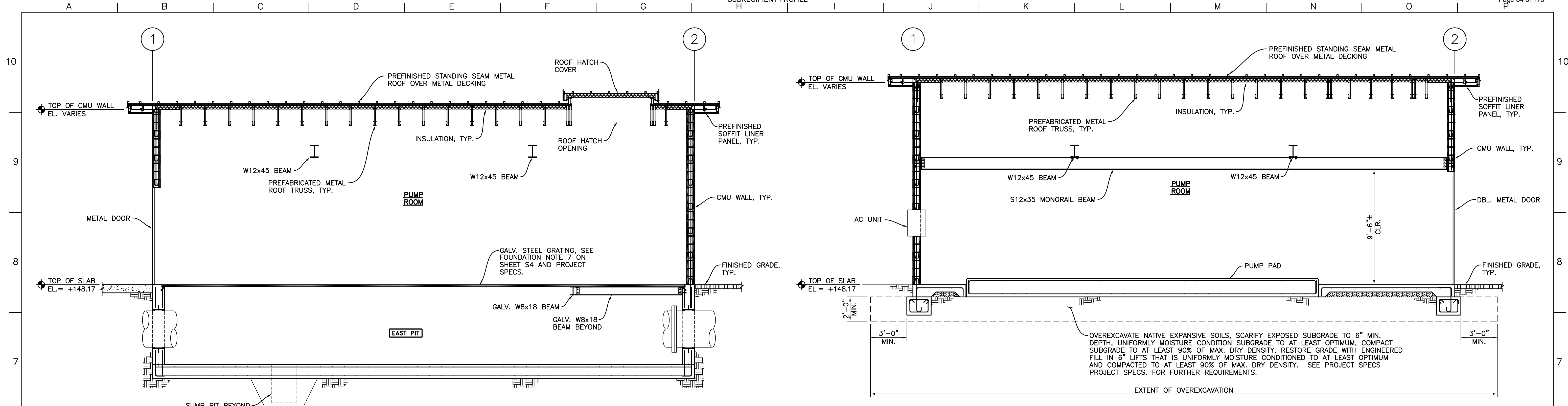
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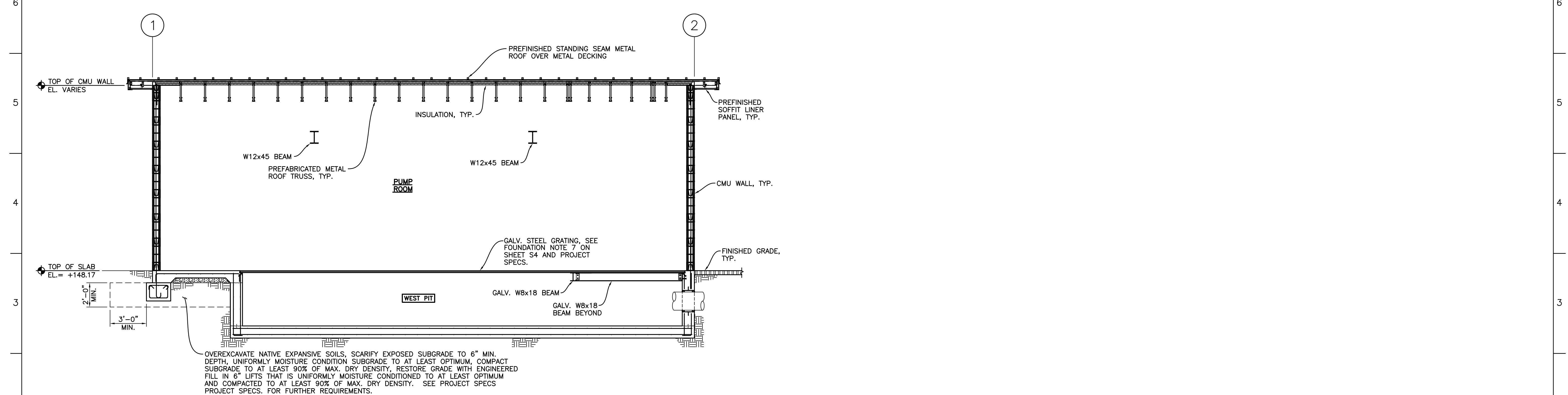
City of Napa
Dwyer Road Pump Station
STRUCTURAL
ROOF FRAMING PLAN

JOB NUMBER 242-00-11-13
DRAWING NUMBER S5
SHEET NUMBER 23 OF 51
REVISION



SECTION A
1/4" = 1'-0"

SECTION B
1/4" = 1'-0"



SECTION C
1/4" = 1'-0"

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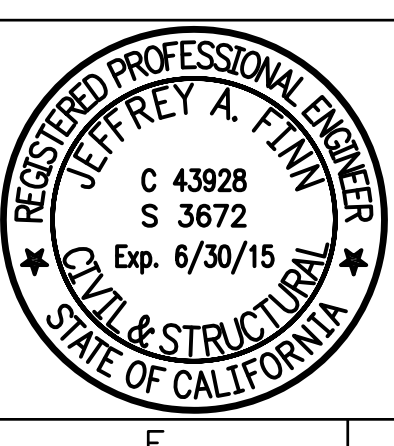
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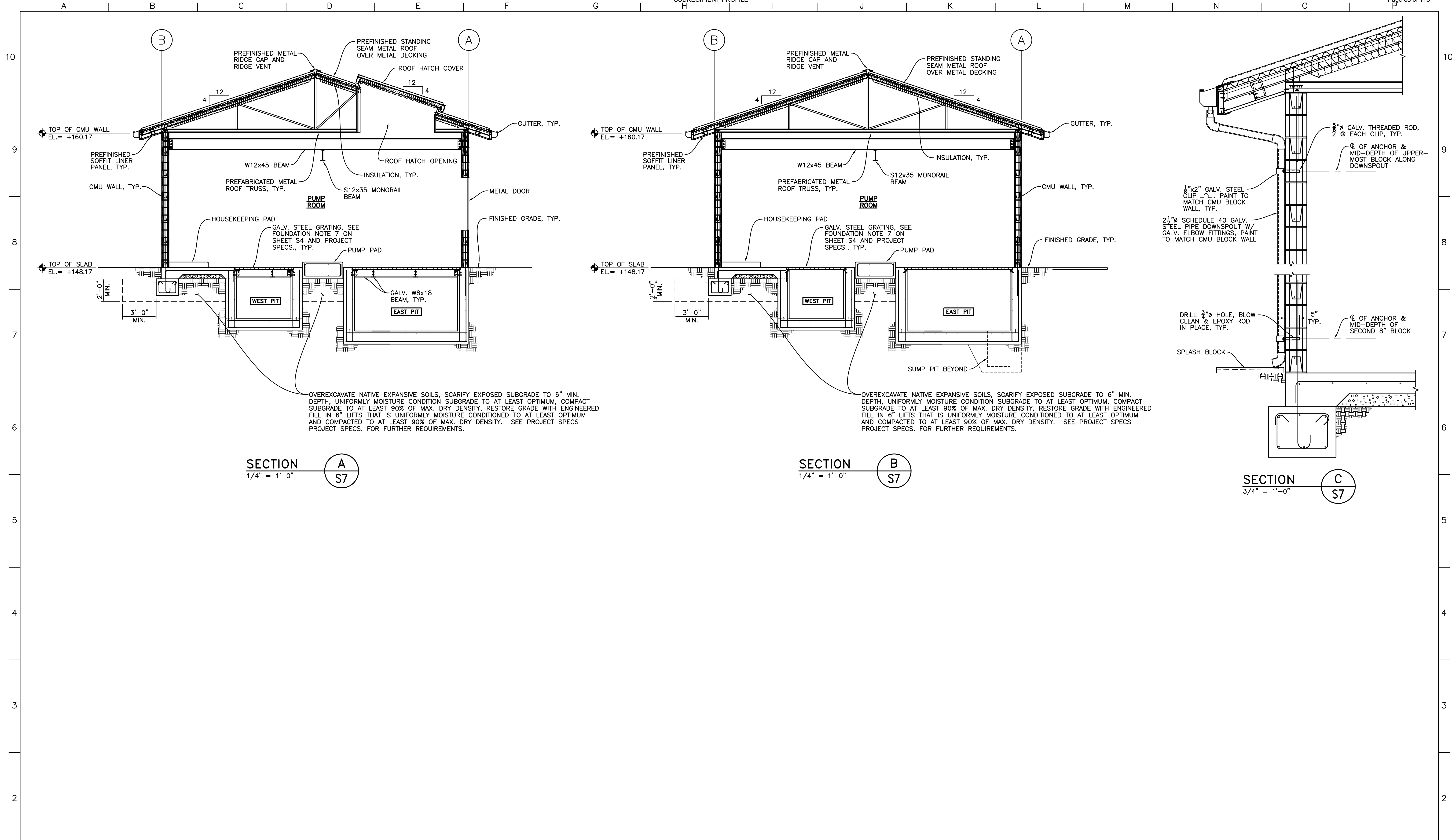
CITY of NAPA

City of Napa
Dwyer Road Pump Station

STRUCTURAL
BUILDING SECTIONS

JOB NUMBER 242-00-11-13
DRAWING NUMBER S6
SHEET NUMBER 24 OF 51
REVISION

EXHIBIT G
SUBRECIPIENT PROFILE



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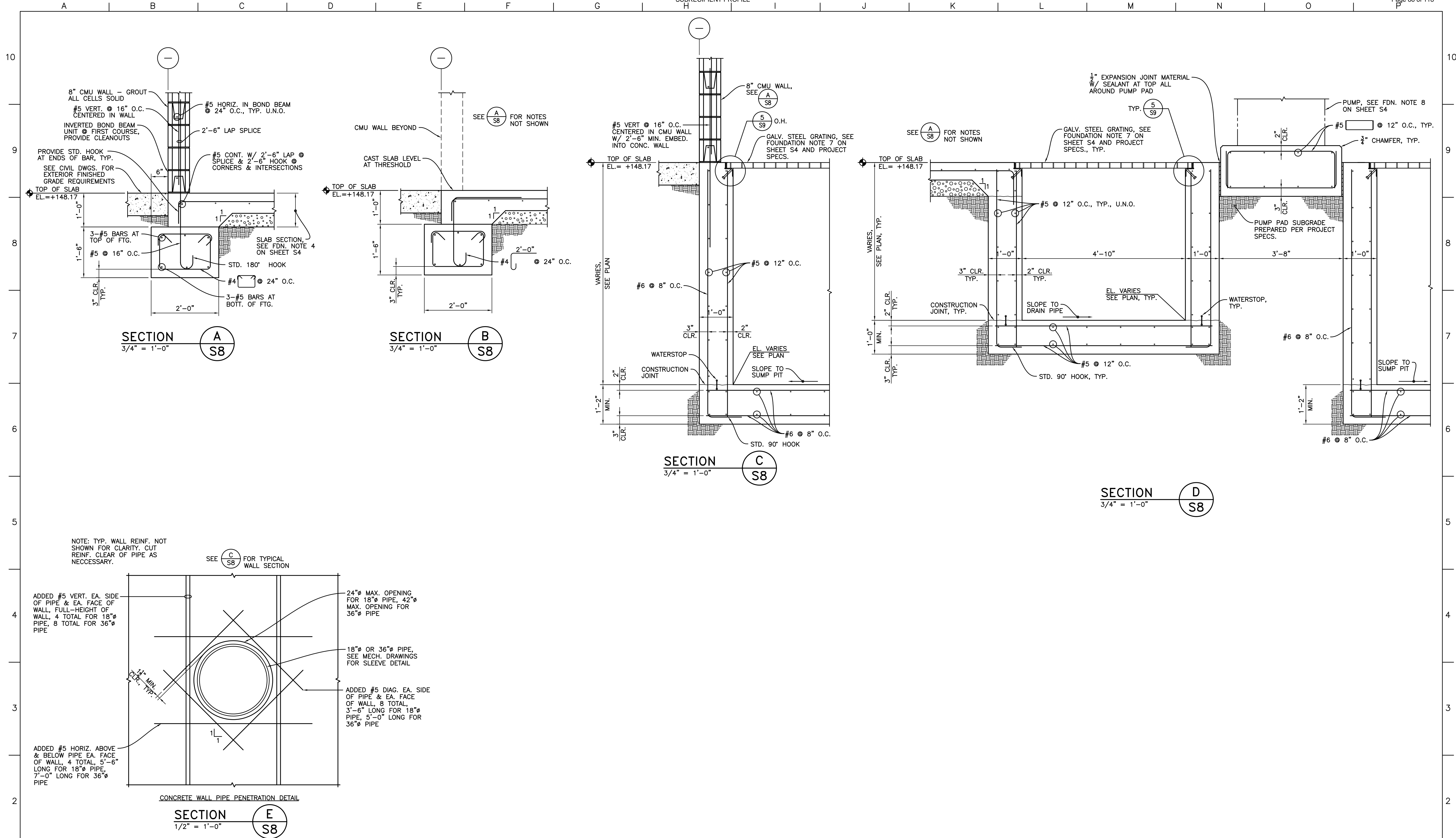
CITY of NAPA

City of Napa
Dwyer Road Pump Station

STRUCTURAL
BUILDING SECTIONS

JOB NUMBER 242-00-11-13
DRAWING NUMBER S7
SHEET NUMBER 25 OF 51
REVISION

EXHIBIT G
SUBRECIPIENT PROFILE



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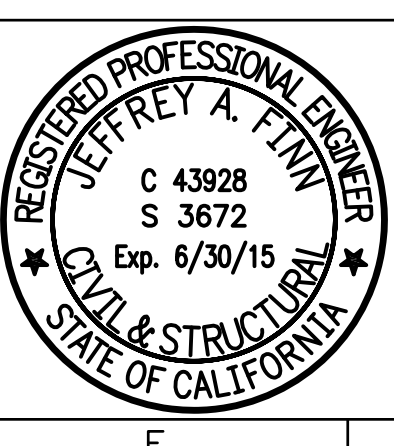
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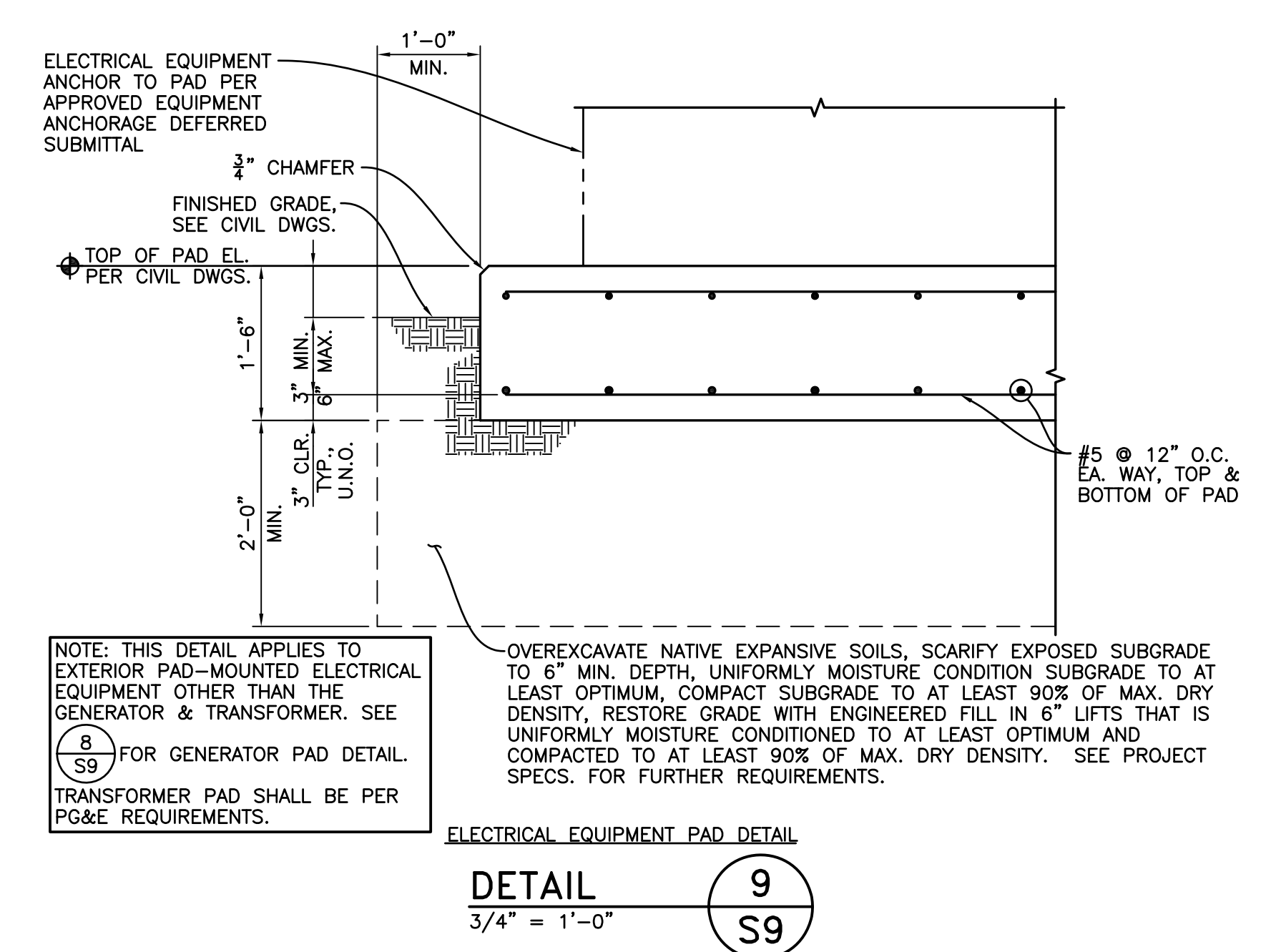
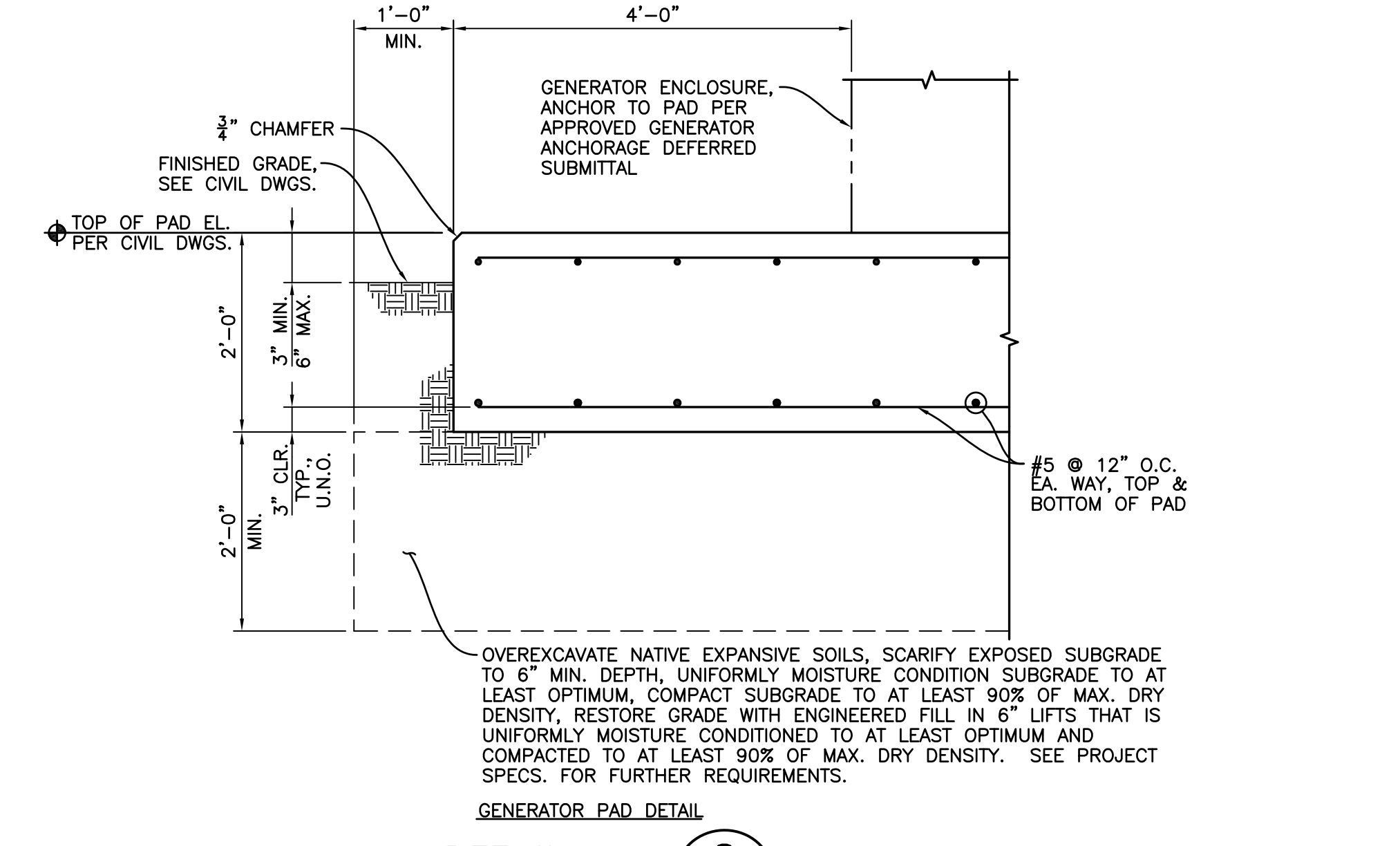
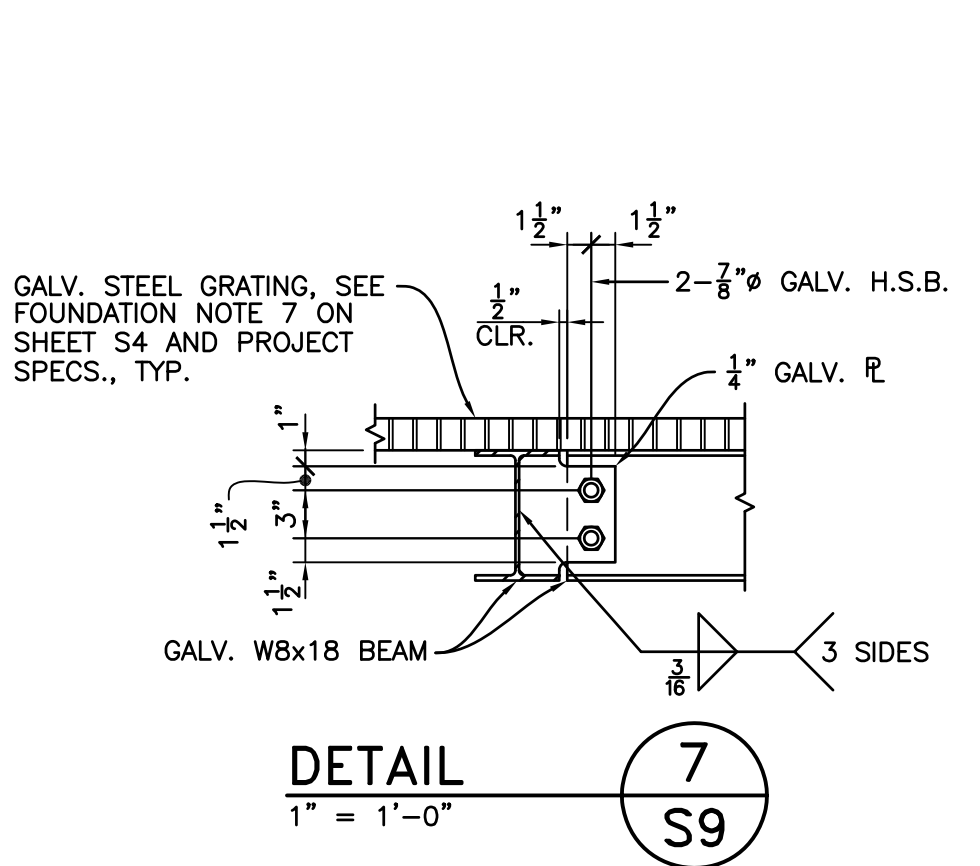
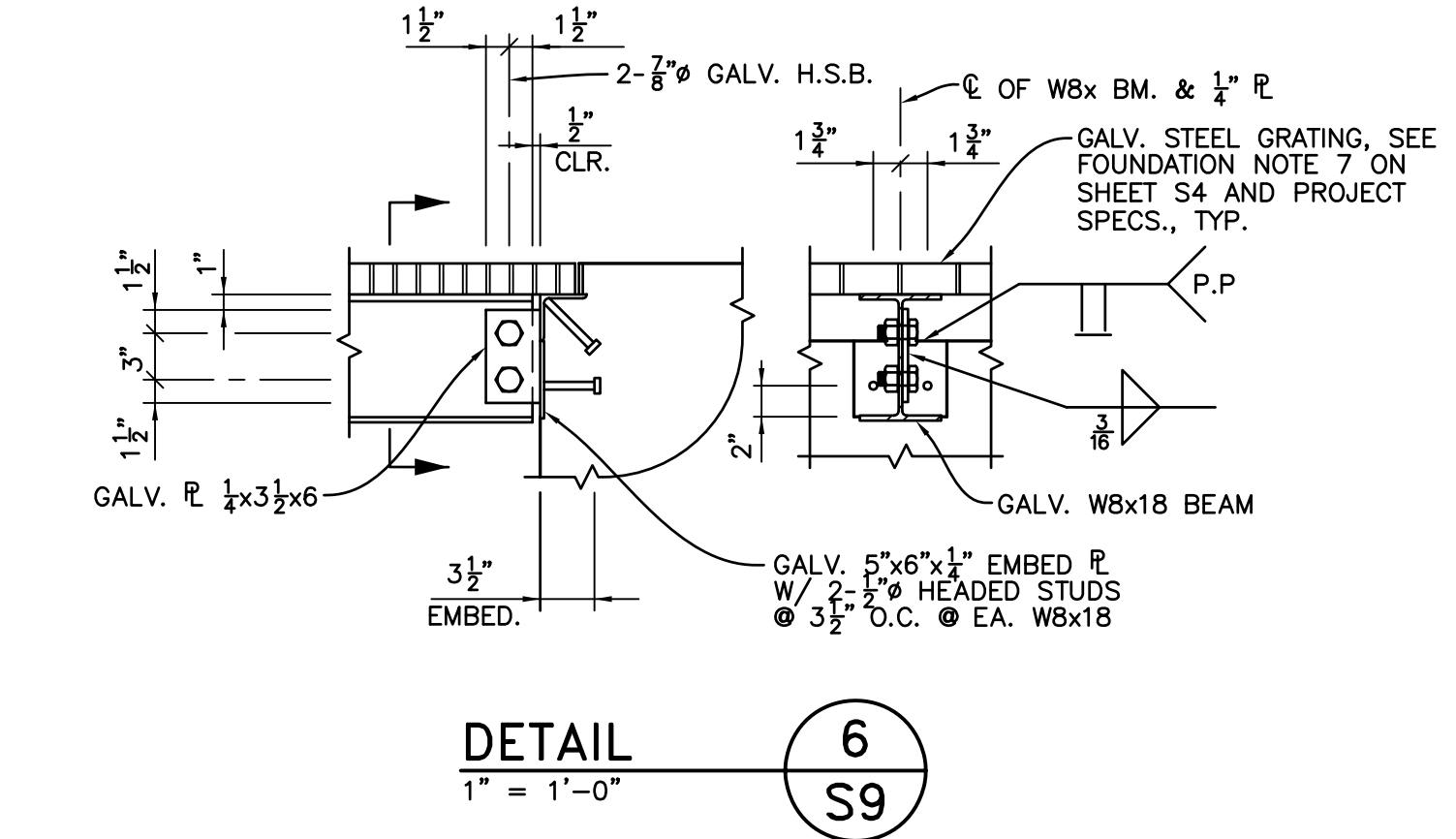
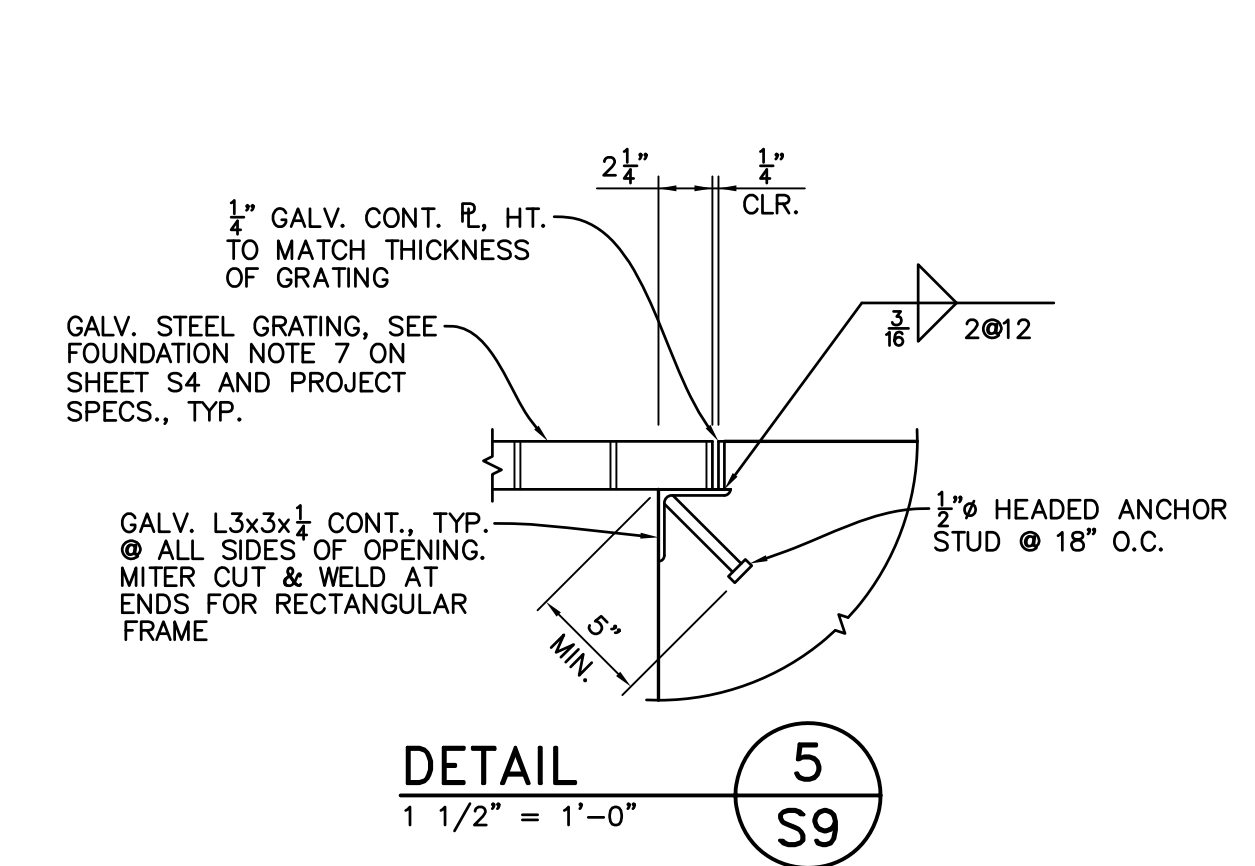
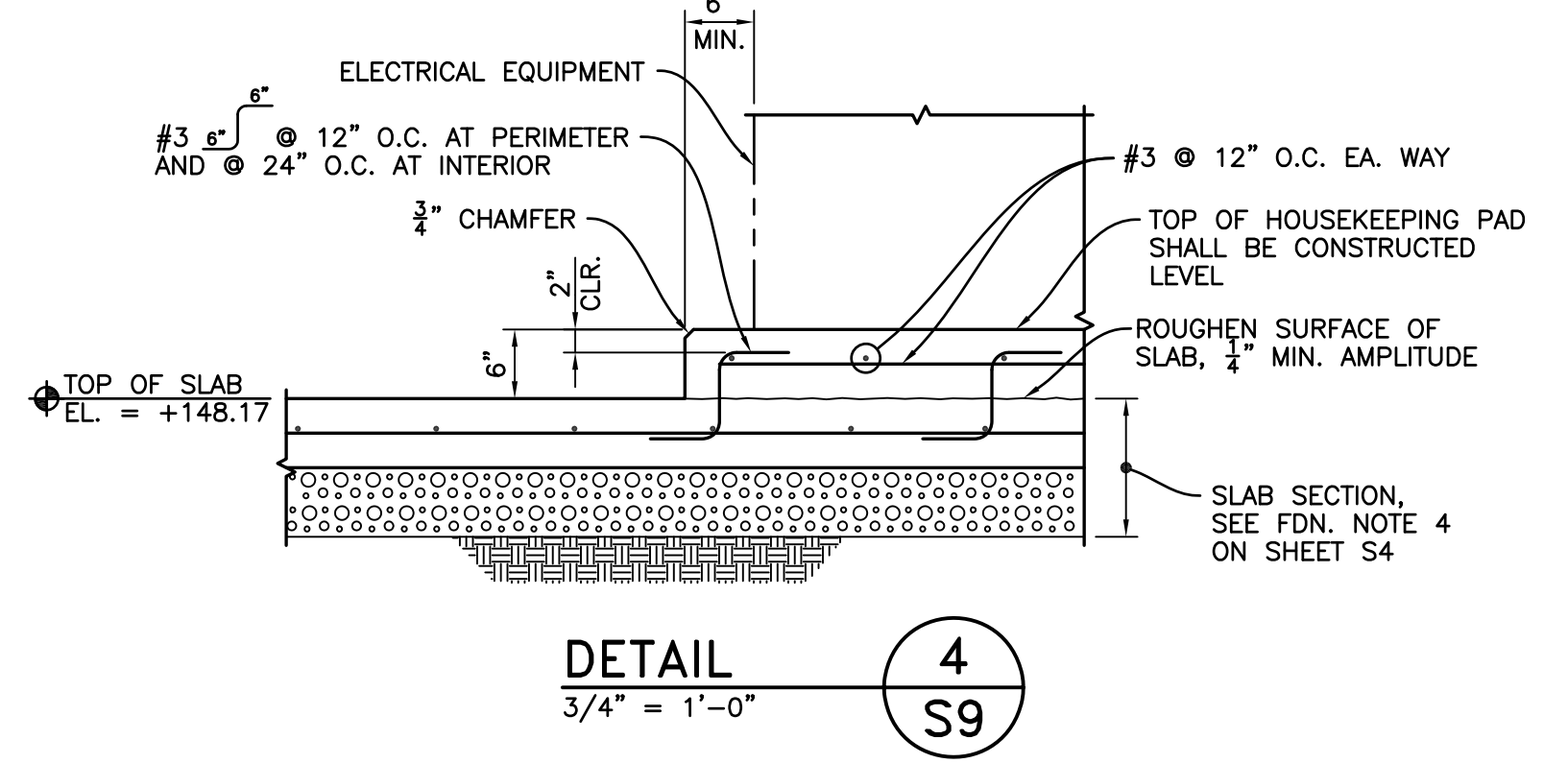
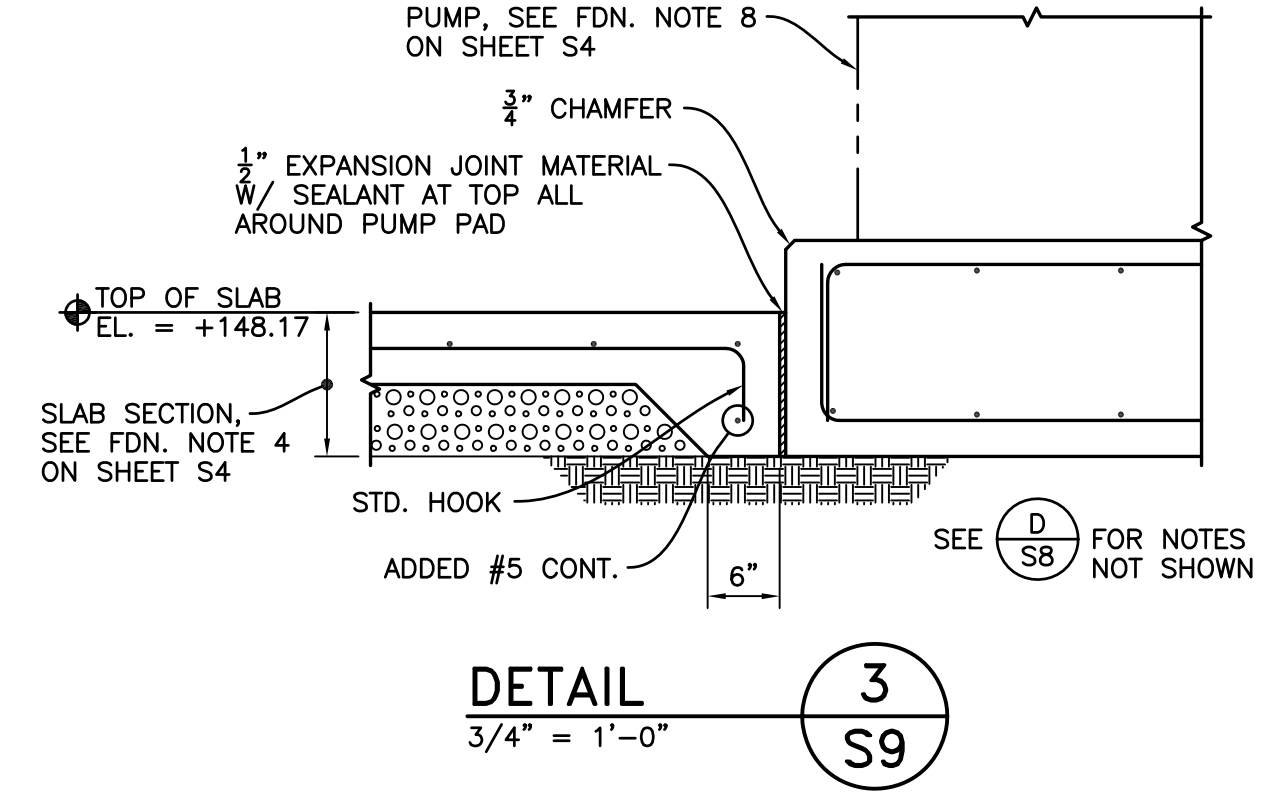
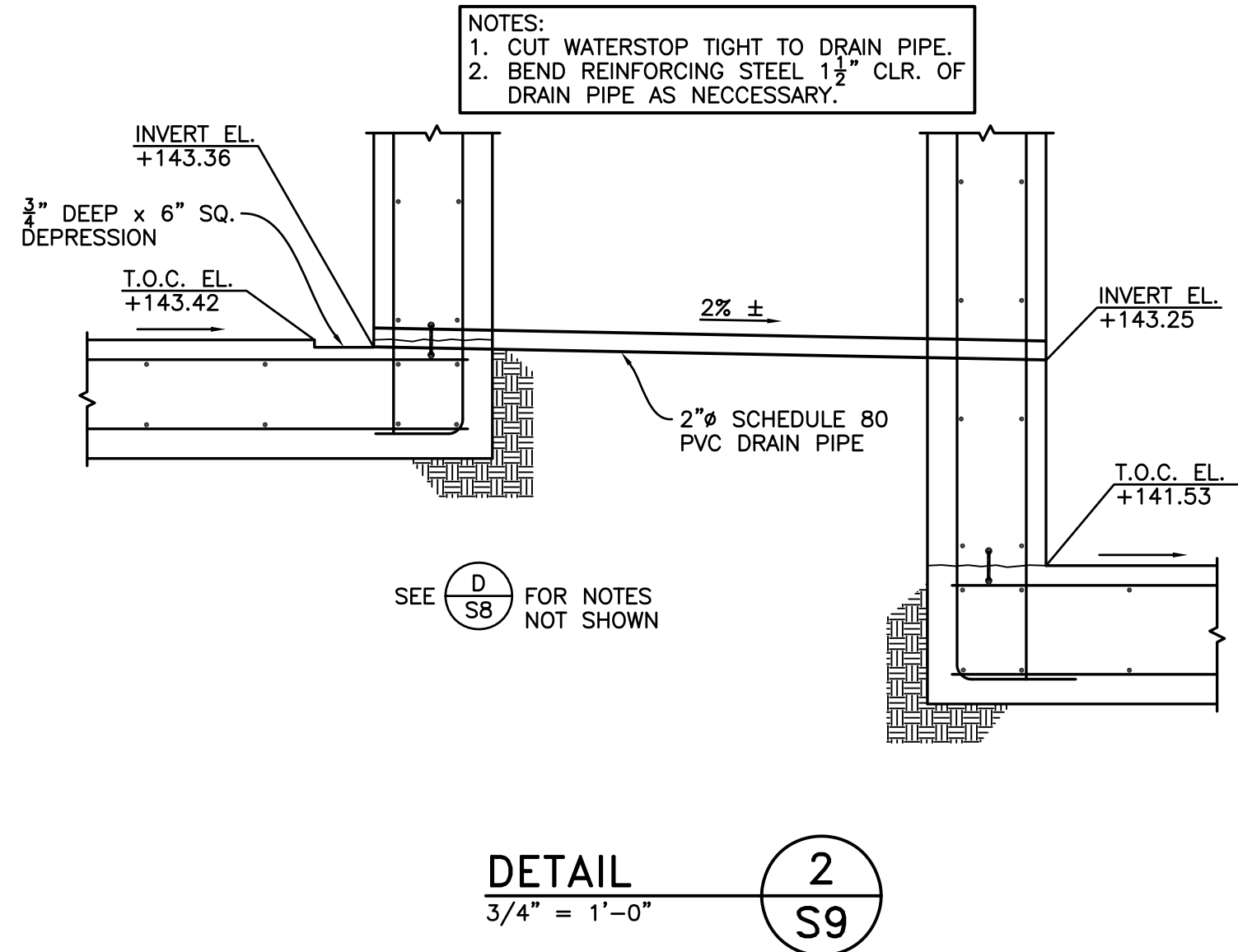
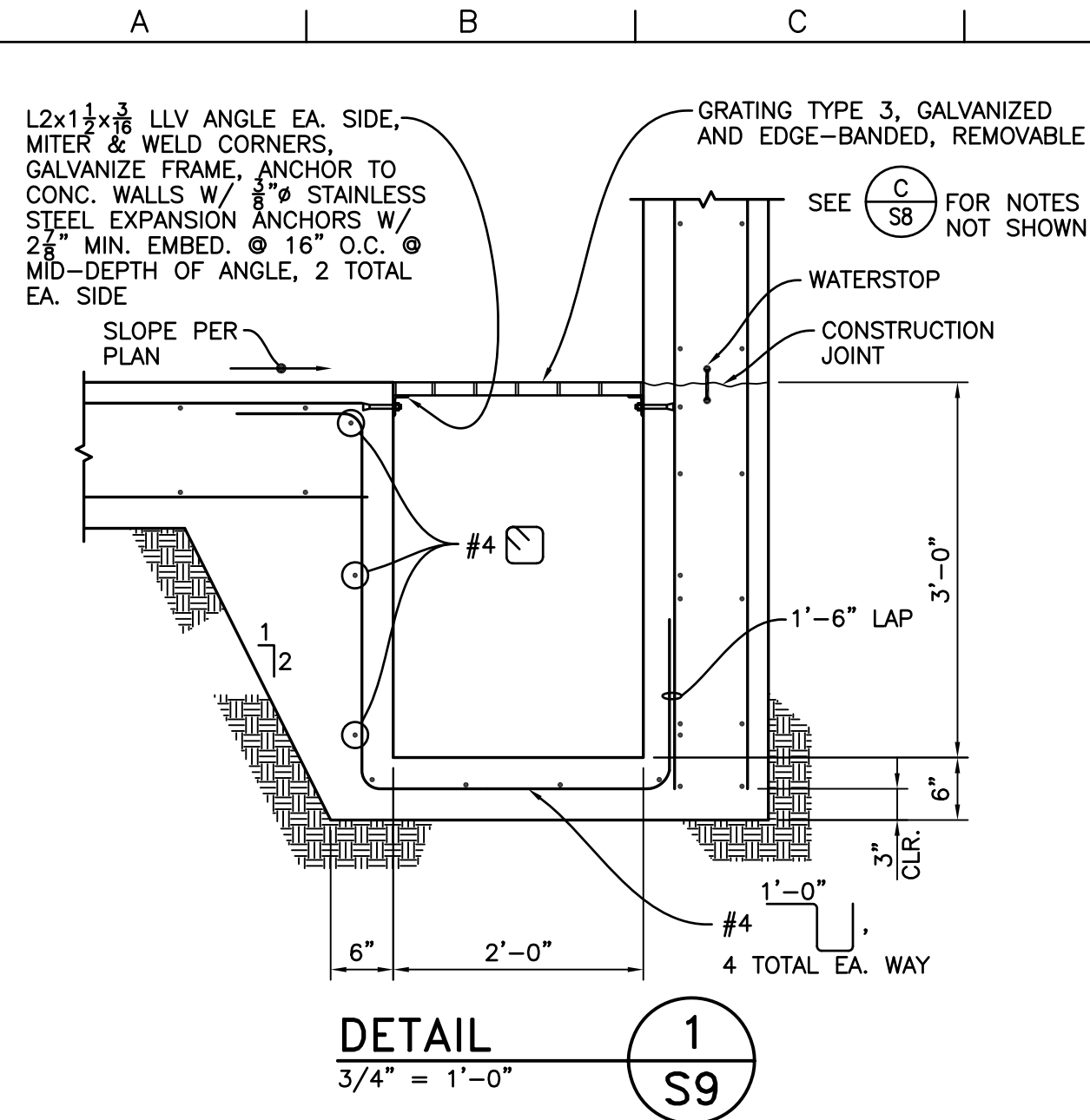
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City of Napa
Dwyer Road Pump Station

STRUCTURAL
FOUNDATION SECTIONS

JOB NUMBER 242-00-11-13
DRAWING NUMBER S8
SHEET NUMBER 26 OF 51
REVISION



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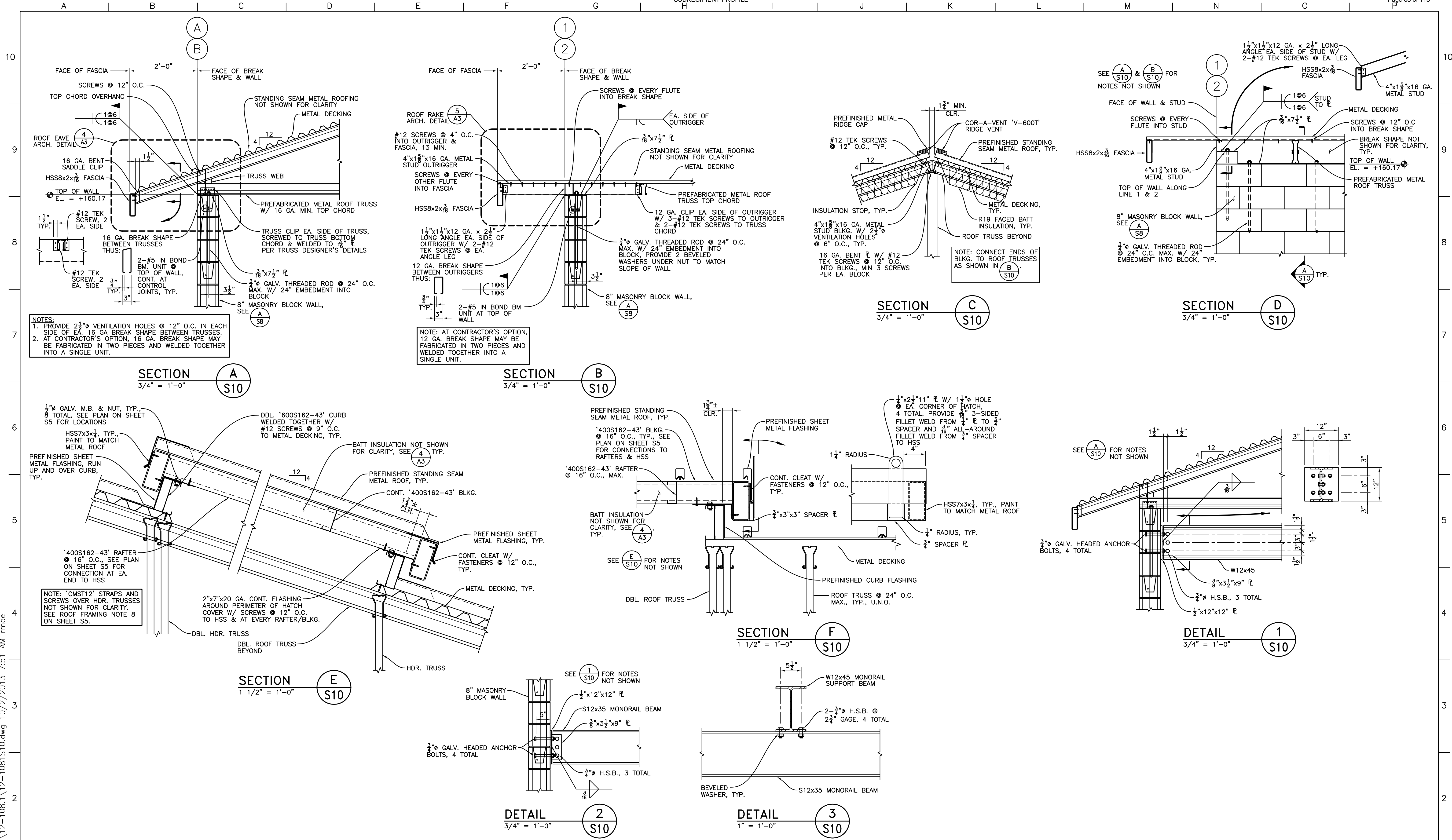


City of Napa
Dwyer Road Pump Station

STRUCTURAL
FOUNDATION DETAILS

JOB NUMBER 242-00-11-13
DRAWING NUMBER S9
SHEET NUMBER 27 OF 51
REVISION

EXHIBIT G
SUBRECIPIENT PROFILE

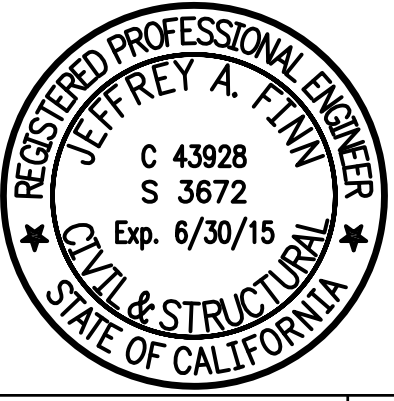


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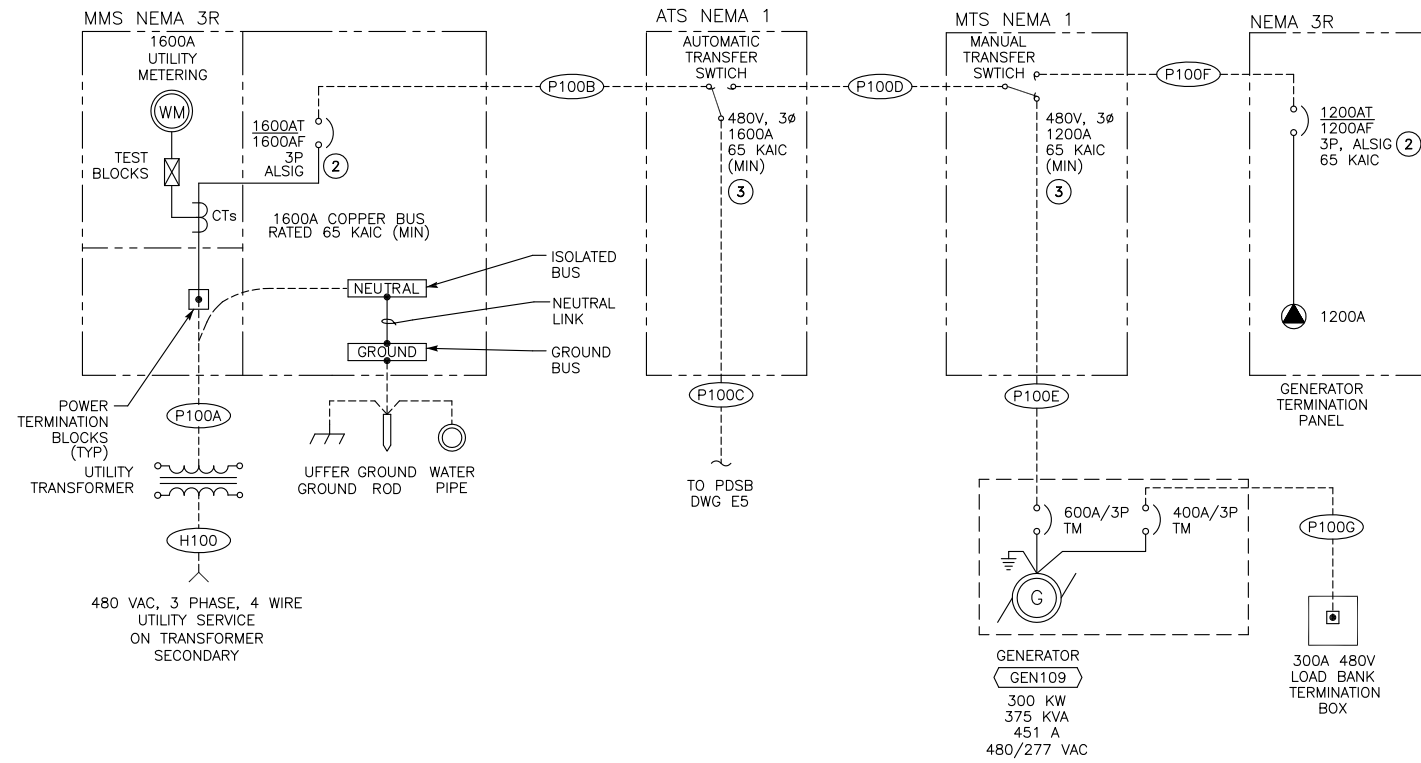
City of Napa
Dwyer Road Pump Station

STRUCTURAL
ROOF FRAMING
SECTIONS & DETAILS

JOB NUMBER 242-00-11-13
DRAWING NUMBER S10
SHEET NUMBER 28 OF 51
REVISION

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EXHIBIT G
SUBRECIPIENT PROFILE



METER/MAIN SWITCHBOARD (MMS), ATS & MTS ONE LINE DIAGRAM ①

- NOTES:
- ① ALL LUGS SHALL BE COPPER. SIZE FOR WIRES LISTED IN "CONDUIT & WIRE SCHEDULE".
 - ② 100% RATED BREAKER TO HAVE ARCFLASH REDUCTION, LONG, SHORT, INSTANTANEOUS AND GROUND (ALSIG) ADJUSTABLE TRIP UNITS.
 - ③ ATS & MTS SHALL BE OPEN TRANSITION TYPE.

MMS LOAD CALCULATIONS	UTILITY SERVICE						GENERATOR SERVICE		
	LOAD AMPS	QTY LOAD	LOAD VA	RUN AMPS	QTY RUN	RUN VA	QTY RUN	RUN VA	
250 BOOSTER PUMP	304.0	3	758,223		3	758,223	1	252,741	
2 HOIST	3.4	1	2,827		1	2,827	0	0	
PANEL LP	11.1		9,195			9,195		9,195	
SUBTOTAL	926		770,245			770,245		261,936	
DIVERSITY FACTOR	100 %								
250 HP Largest motor @ 25% additional	304 0.25						63,185		
TOTAL							833,430		
/ 480 V, 3 Phase, 4 Wire, Service Amps =							1,002 Amps		
Service Size =							1,25 Multiplier		
Feeder Breaker Size =							1,253 Amps		
% Feeder Breaker Load =							1,600 Amps		
							AMPS= 315		
							KVA= 262		
							%GEN LOAD= 69.8%		

POWER UTILITY SERVICE DIVISION OF WORK	Electrical Contractor	Utility Company
Primary Conduits	X	
Primary Conductors		X
Transformer Pad	X	
Transformer		X
Transformer Connections		X
Transformer Ground Rod	X	
Secondary Conduits	X	
Secondary Conductors		X
Bollards	X	
Meter Enclosure/Base	X	
Utility Meter		X
C/T Enclosure	X	
Current Transformers C/T		X
Meter Room Lock Box	X	

Power Company Information:

Contact Name: _____
 Power Utility: Pacific Gas & Electric
 Address: _____
 City/State/Zip: _____
 Phone: _____
 Fax: _____
 E-mail: _____

Notes:

- All Utility Service Installation work shall be done by Contractor per Power Utility Engineered drawings (which supersedes what is shown on Contract Drawings).
- Contractor shall coordinate and schedule all Power Utility inspections and tests in strict compliance with Power Utility requirements.

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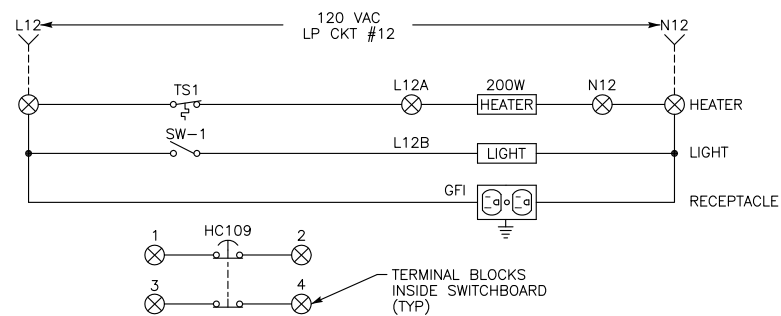
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 Davis, California 95618
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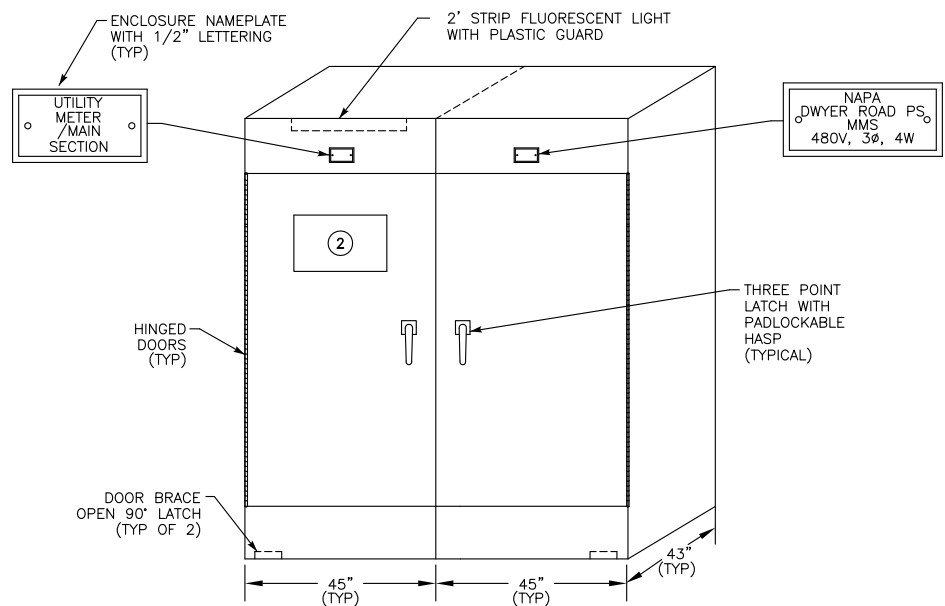


City of Napa
 Dwyer Road Pump Station
 MMS, ATS & MTS
 ONE LINE DIAGRAM

JOB NUMBER	242-00-11-13
DRAWING NUMBER	E2
SHEET NUMBER	30 OF 51
REVISION	



MMS ELEMENTARY DIAGRAM



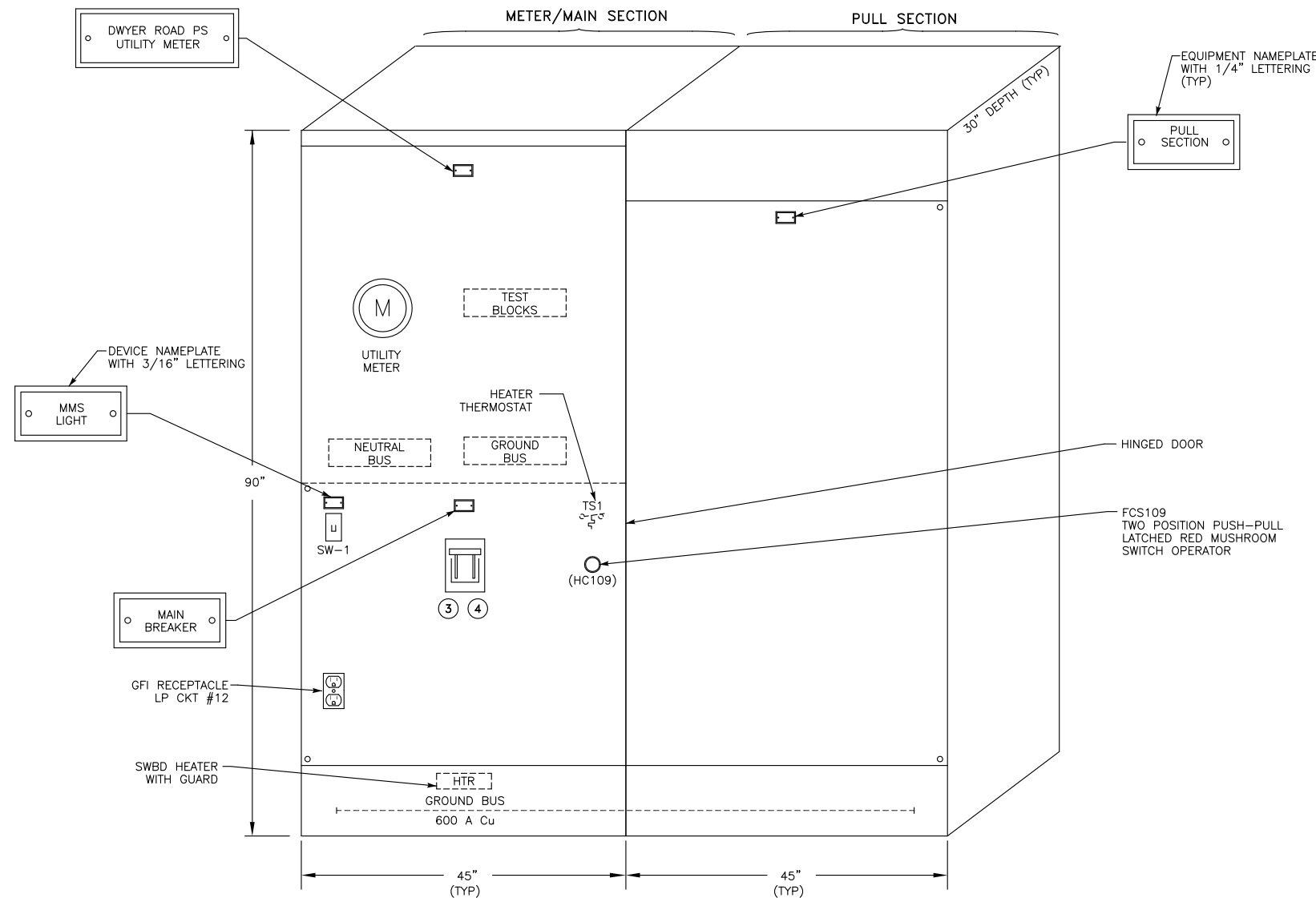
MMS WEATHERWRAP
NOT TO SCALE DETAIL A E3 ①

NOTES: ① MMS TO HAVE CUSTOM BUILT WEATHERWRAP PAINTED GREY TO CONTAIN METERING, BREAKER & PULL SECTIONS.

② PROVIDE & MOUNT THE FOLLOWING PLACARD ON DOOR:

GENERATOR
EMERGENCY
SHUTDOWN
SWITCH INSIDE

LETTERING SHALL BE 3" H
REFLECTIVE RED ON
WHITE BACKGROUND



METER/MAIN SWITCHBOARD (MMS) ELEVATION ① ②
NOT TO SCALE

NOTES: ① REAR ACCESS SHALL NOT BE REQUIRED TO SERVICE OR REPLACE ANY SWITCHBOARD COMPONENTS.

② WEATHER WRAP SHOWN ON DETAIL "A" AT LEFT

③ EACH BREAKER SHALL HAVE A PADLOCKABLE HASP TO LOCK BREAKER IN THE OFF POSITION.

④ PROVIDE COPPER LUGS FOR POWER CABLES FOR WIRE SIZES LISTED IN "CONDUIT & WIRE ROUTING SCHEDULE".



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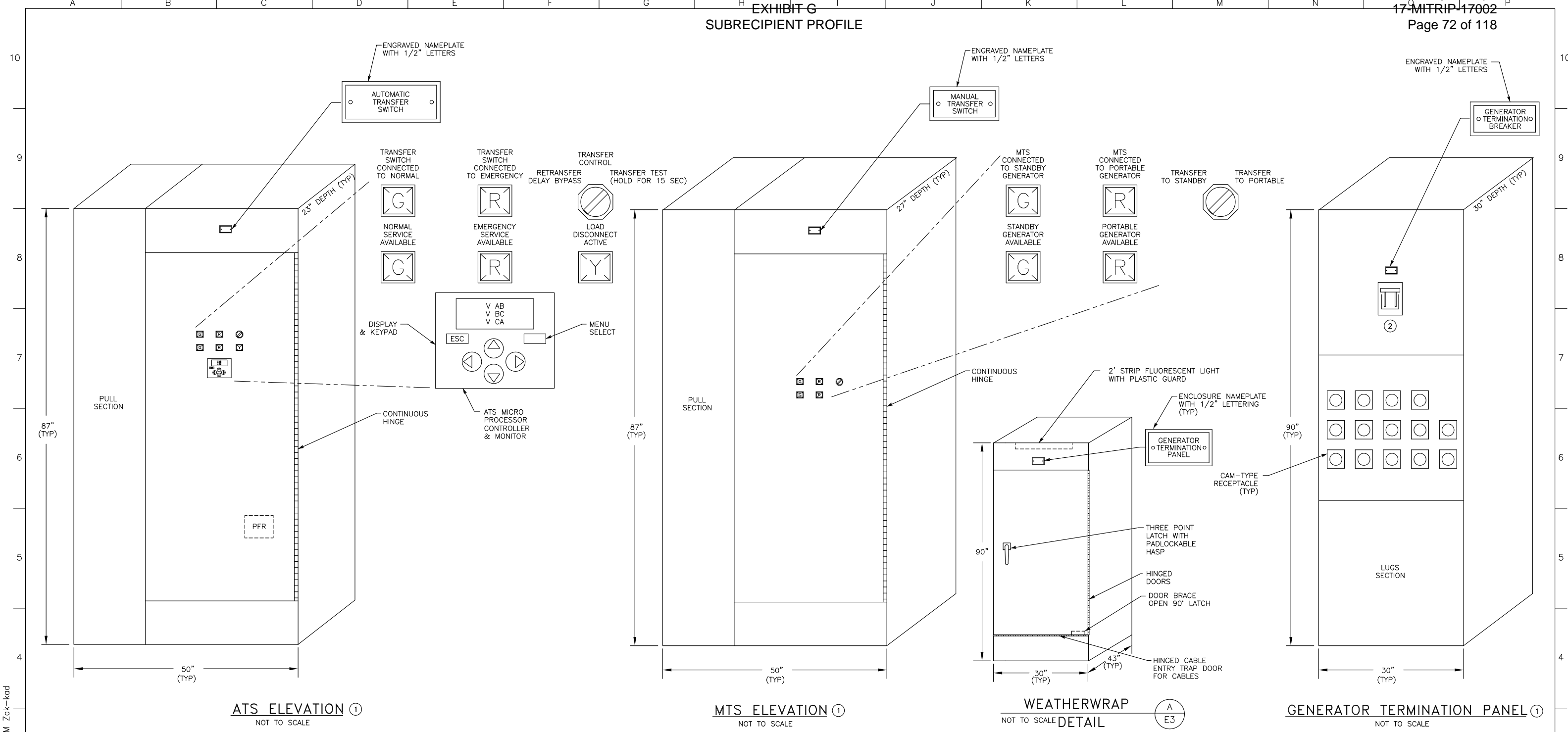


City of Napa
Dwyer Road Pump Station
METER/MAIN SWITCHBOARD
ELEVATION

JOB NUMBER
242-00-11-13
DRAWING NUMBER
E3
SHEET NUMBER
31 OF 51
REVISION

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EXHIBIT G
SUBRECIPIENT PROFILE

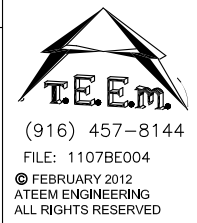


NOTES: ① REAR ACCESS SHALL NOT BE REQUIRED TO SERVICE OR REPLACE ANY SWITCHBOARD COMPONENTS.

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NOTES: ① REAR ACCESS SHALL NOT BE REQUIRED TO SERVICE OR REPLACE ANY COMPONENTS.
② EACH BREAKER SHALL HAVE A PADLOCKABLE HASP TO LOCK BREAKER IN THE OFF POSITION.
③ WEATHER WRAP SHOWN ON DETAIL "A" AT LEFT

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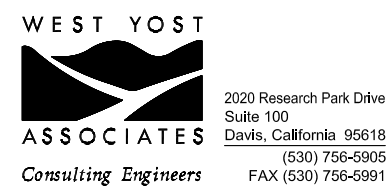


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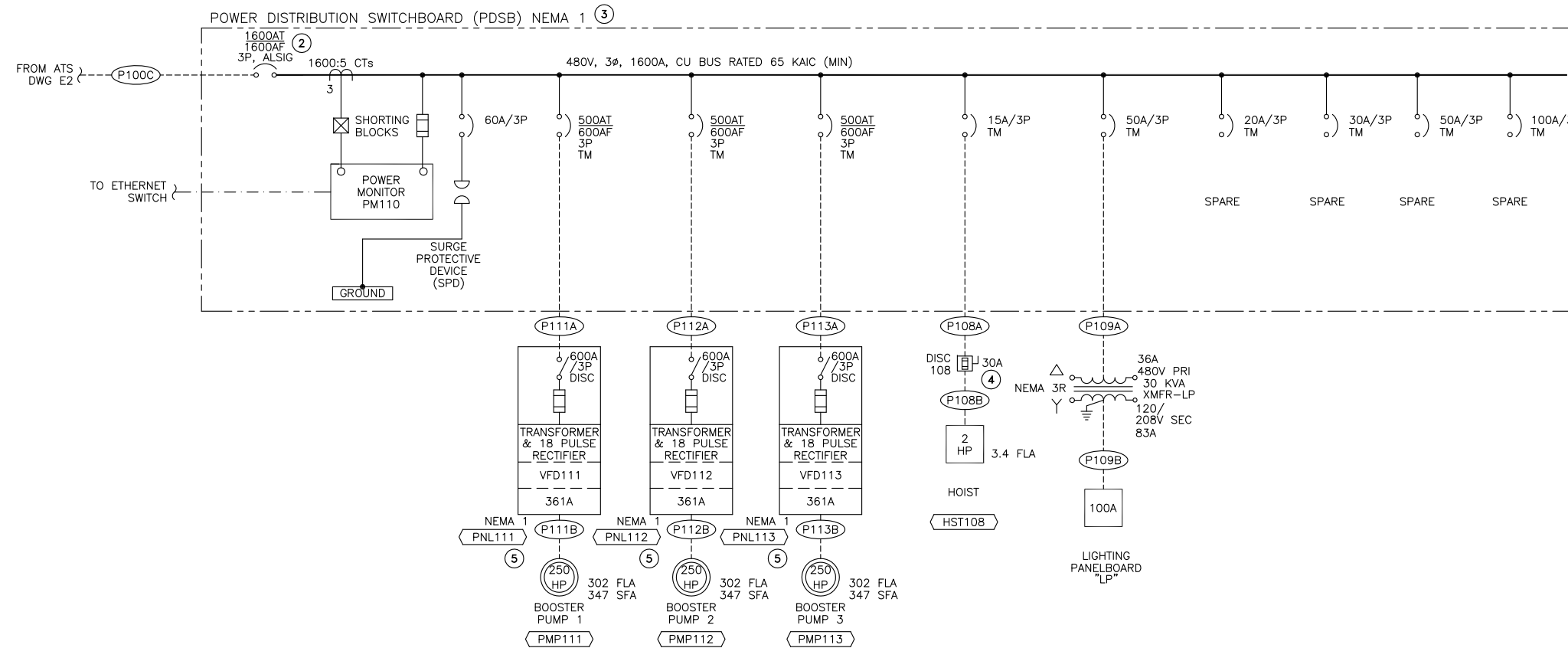


City of Napa
Dwyer Road Pump Station

**ATS, MTS & GENERATOR
TERMINATION PANEL ELEVATION**

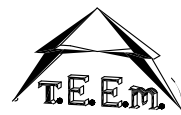
JOB NUMBER	242-00-11-13
DRAWING NUMBER	E4
SHEET NUMBER	32 OF 51
REVISION	

EXHIBIT G
SUBRECIPIENT PROFILE



POWER DISTRIBUTION SWITCHBOARD (PDSB) ONE LINE DIAGRAM ①

- NOTES: ① ALL LUGS SHALL BE COPPER. SIZE FOR WIRES LISTED IN "CONDUIT & WIRE SCHEDULE".
 ② BREAKER TO HAVE ARCLASH REDUCTION, LONG, SHORT, INSTANTANEOUS AND GROUND (ALSIG) ADJUSTABLE TRIP UNITS.
 ③ SEE DWG E5 ELEVATION DIAGRAM FOR BREAKERS LOCATIONS.
 ④ NEMA 12 FUSED DISCONNECT SWITCH WITH MINIMUM AMP RATING SHOWN AND FUSES SIZED TO PROTECT EQUIPMENT.
 ⑤ SEE DWG E7 FOR DETAILS.



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City of Napa
Dwyer Road Pump Station

POWER DISTRIBUTION SWITCHBOARD ONE LINE DIAGRAM

JOB NUMBER
242-00-11-13

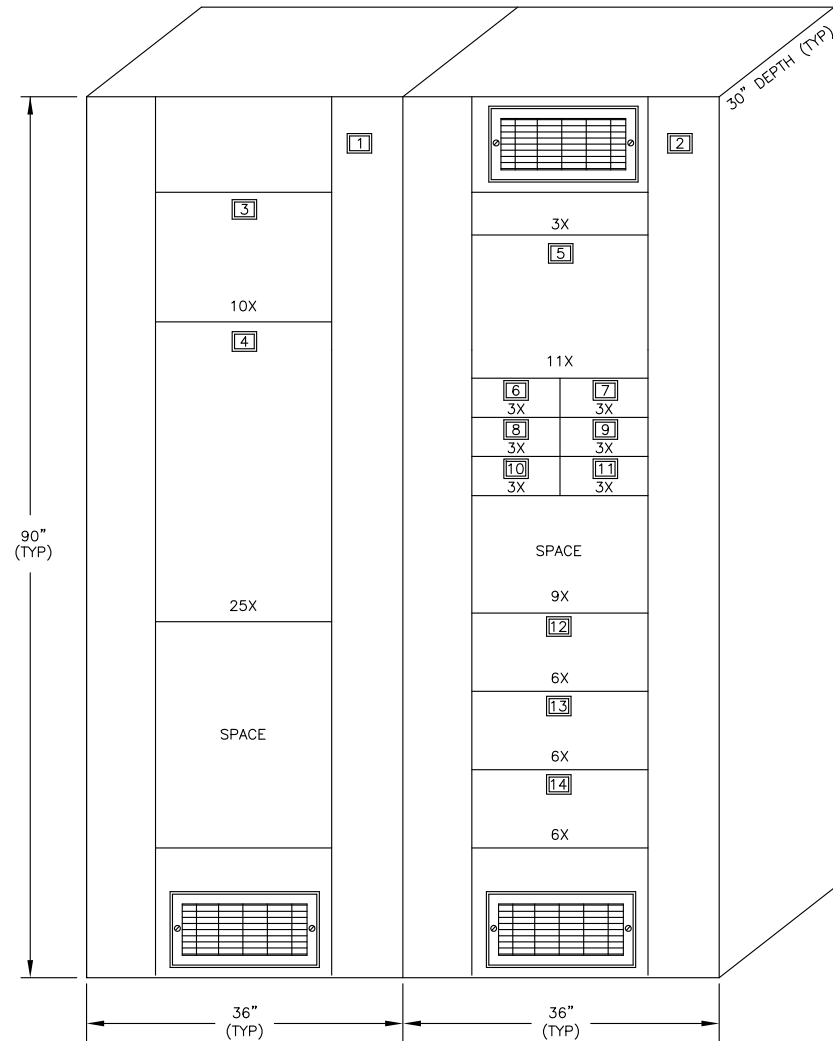
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E5

SHEET NUMBER
33 OF **51**

REVISION

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EXHIBIT G
 SUBRECIPIENT PROFILE



NAMEPLATE SCHEDULE			
KEY	DEVICE	ENGRAVING	LETTER SIZE
1	ENCLOSURE	PDSB 480V, 3Ø, 1600A MAIN SECTION	1"
2	ENCLOSURE	BREAKER SECTION	1"
3	SPD	SURGE PROTECTIVE DEVICE	1/2"
4	BREAKER	MAIN BREAKER	1/2"
5	POWER MONITOR	POWER MONITOR	1/2"
6	BREAKER	HOIST	1/2"
7	BREAKER	LIGHTING PANEL XFMR-LP	1/2"
8	BREAKER	SPARE 20A BREAKER	1/2"
9	BREAKER	SPARE 30A BREAKER	1/2"
10	BREAKER	SPARE 50A BREAKER	1/2"
11	BREAKER	SPARE 100A BREAKER	1/2"
12	BREAKER	BOOSTER PUMP 1 PNL111	1/2"
13	BREAKER	BOOSTER PUMP 2 PNL112	1/2"
14	BREAKER	BOOSTER PUMP 3 PNL113	1/2"

POWER DISTRIBUTION SWITCHBOARD (PDSB) ELEVATION ①②③
 NOT TO SCALE

- NOTES: ① REAR ACCESS SHALL NOT BE REQUIRED TO SERVICE OR REPLACE ANY SWITCHBOARD COMPONENTS.
 ② EACH BREAKER SHALL HAVE A PADLOCKABLE HASP TO LOCK BREAKER IN THE OFF POSITION.
 ③ ALL INTERLOCKING CABLES (WITH LUGS) OR BUS WORK SHALL BE SUPPLIED WITH SWITCHBOARD IN ORDER TO TIE SECTIONS ELECTRICALLY TOGETHER.
 ④ HEIGHT "X" = 1-3/8"



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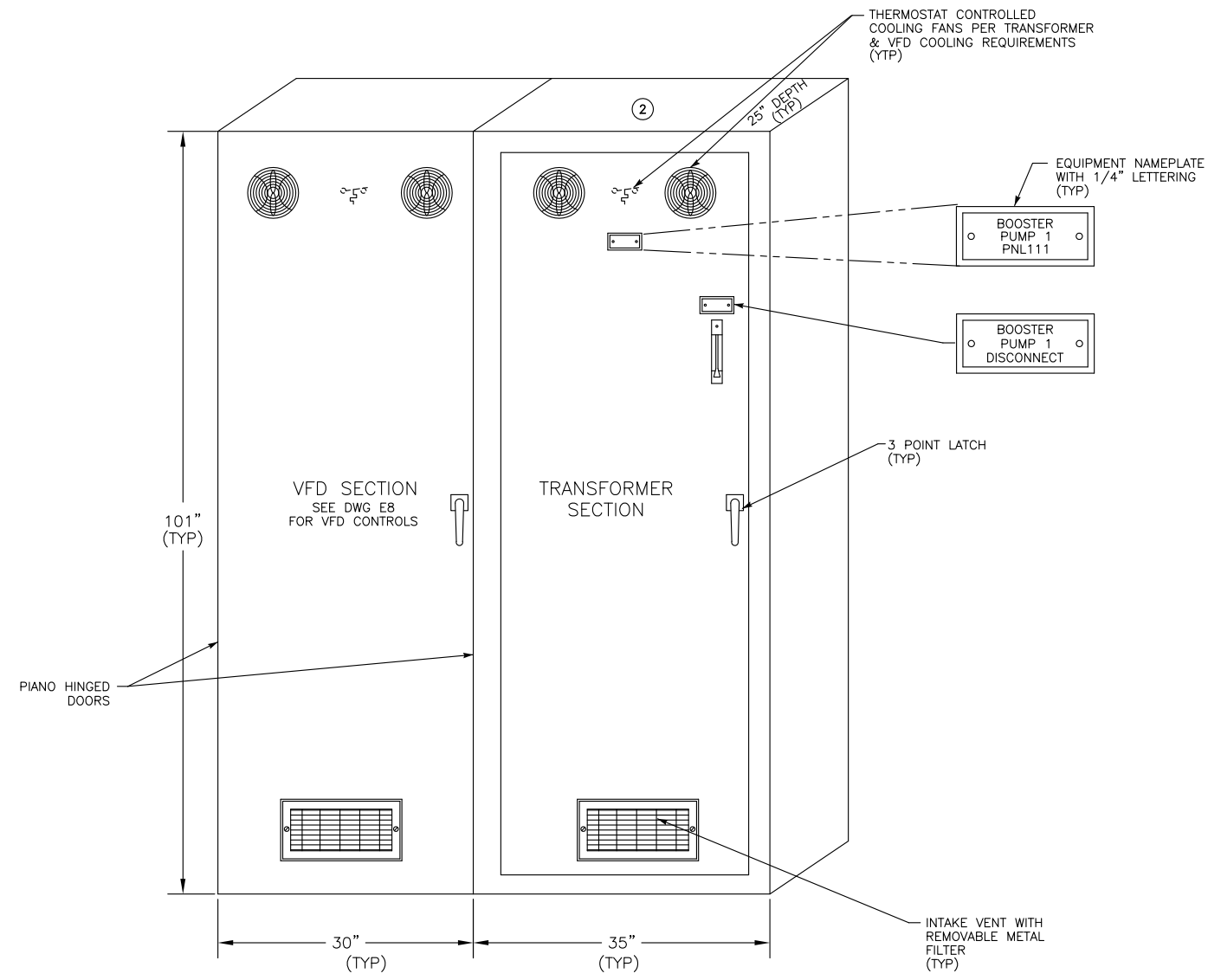


City of Napa
 Dwyer Road Pump Station
 PDSB
 ELEVATION

JOB NUMBER 242-00-11-13
DRAWING NUMBER E6
SHEET NUMBER 34 OF 51
REVISION

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EXHIBIT G
 SUBRECIPIENT PROFILE



VFD PNL111 ELEVATION ①
 NOT TO SCALE

- NOTES: ① SIMILAR ELEVATION FOR PNL112 & PNL113.
 ② 30" HEIGHT VENT ON TOP AND ALLOW 12" MINIMUM FOR VENT.

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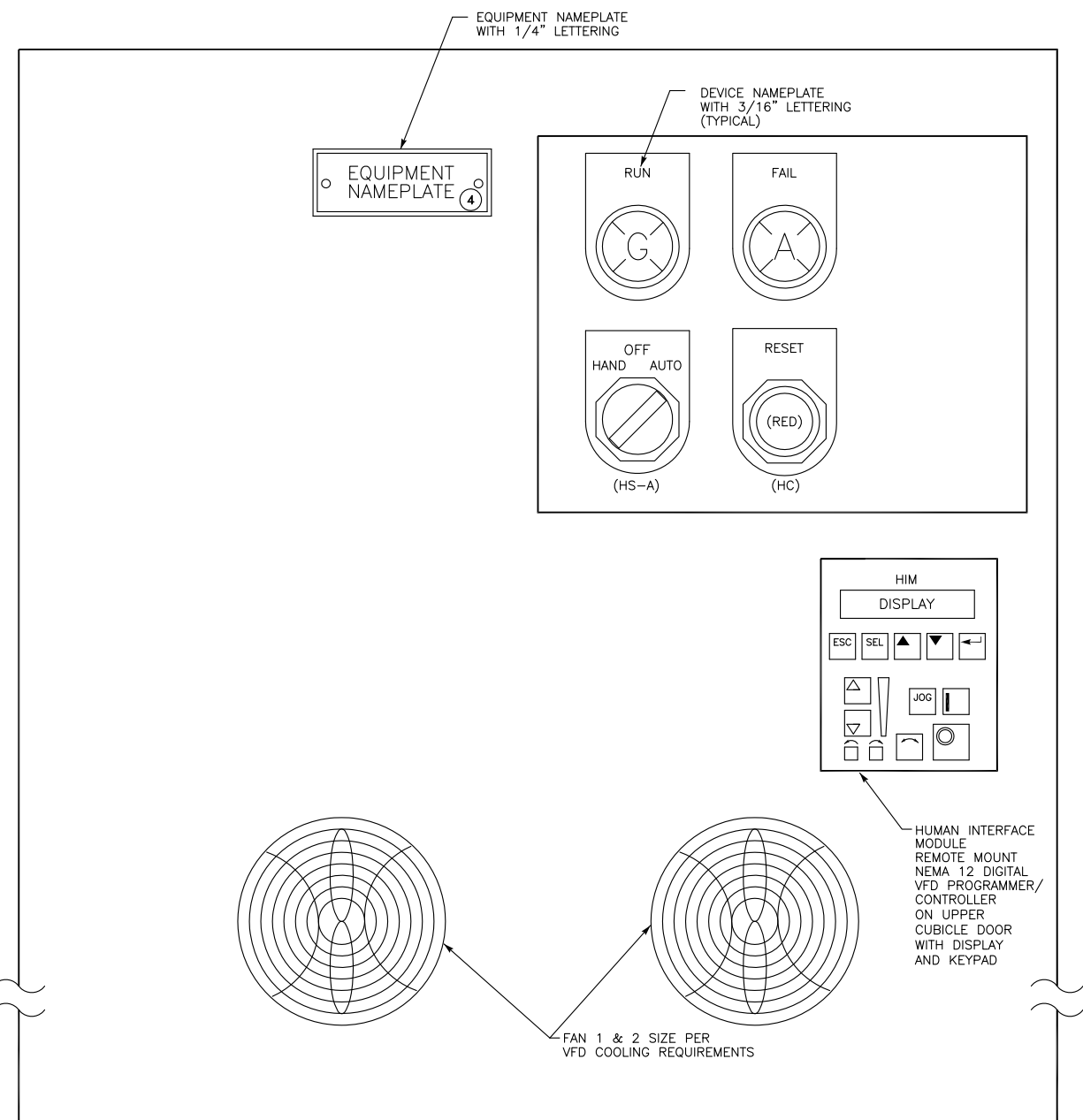
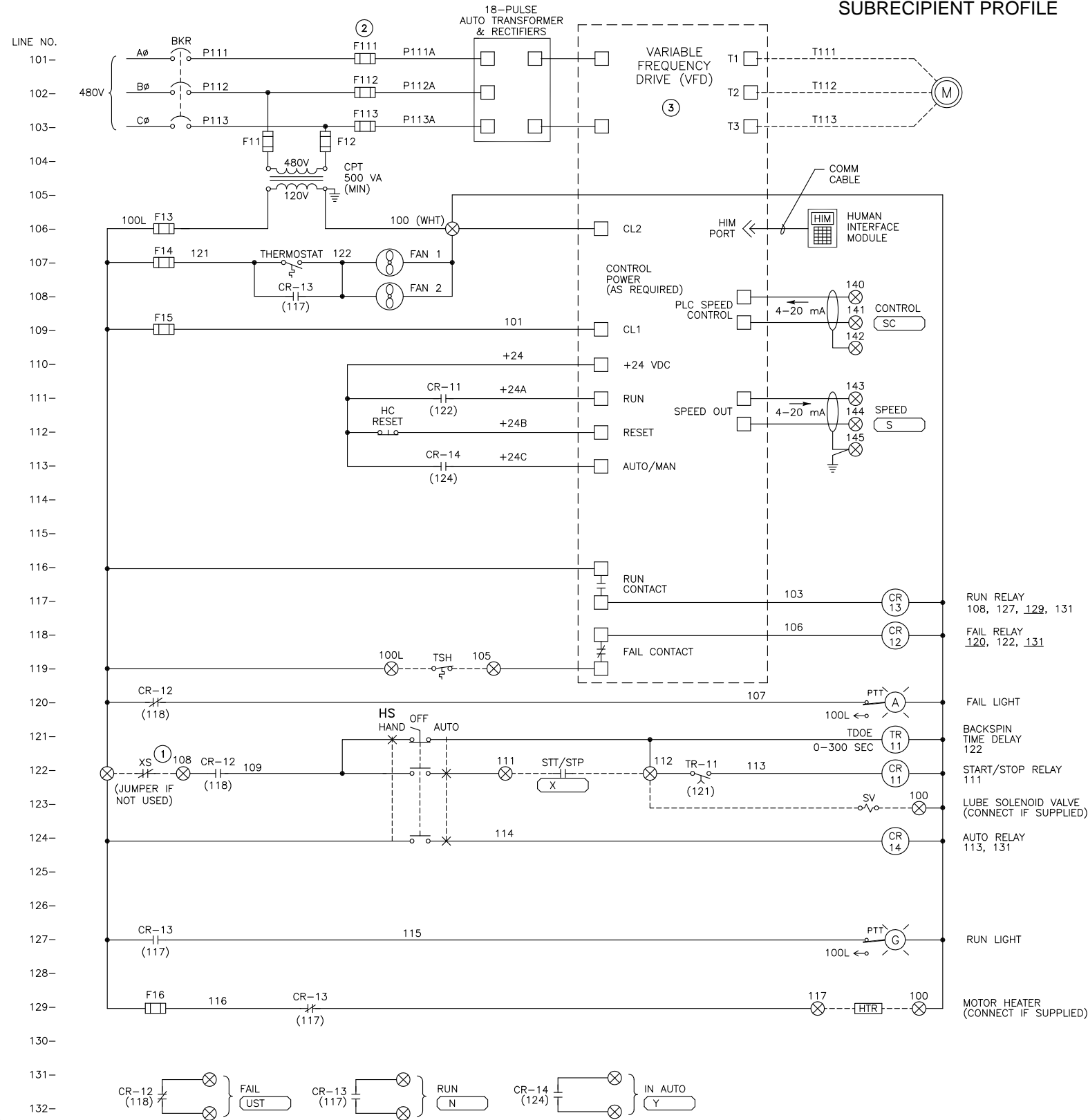
CITY of NAPA

City of Napa
 Dwyer Road Pump Station

VFD PNL111~3
 ELEVATION

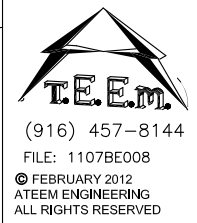
JOB NUMBER 242-00-11-13
DRAWING NUMBER E7
SHEET NUMBER 35 OF 51
REVISION

EXHIBIT G
SUBRECIPIENT PROFILE



- NOTES:
- ① REMOTE SHUTDOWN XS => PFR, LSSL, ZSHH, PSHH, ETC., PER P&ID. JUMPER IF NOT USED. THESE ARE TO BE CONTACTS OFF OF AUXILIARY RELAY CONTACTS LOCATED IN CONTROL PANEL DRIVEN FROM FIELD DEVICE.
 - ② PROVIDE FUSES PER MANUFACTURER'S RECOMMENDATIONS.
 - ③ 18-PULSE VFD WITH ELECTRONIC OVERLOAD & BUILT-IN RFI FILTER.
 - ④ EQUIPMENT NAMEPLATE TO CONTAIN EQUIPMENT DESCRIPTION AND EQUIPMENT NUMBER PER ELEVATION DIAGRAM.

BOOSTER PUMP 18-PULSE VARIABLE FREQUENCY DRIVE ELEMENTARY DIAGRAM



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**BOOSTER PUMP 18-PULSE VFD
ELEMENTARY DIAGRAM**

JOB NUMBER 242-00-11-13
DRAWING NUMBER E8
SHEET NUMBER 36 OF 51
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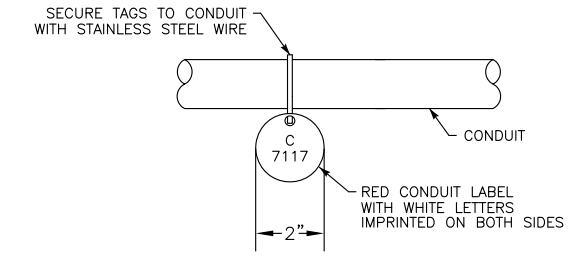
NOTES:

- ① CONDUIT SIZE & TYPE; WIRE FILL FOR CONDUITS TO BE DESIGNATED NEXT TO CONDUIT NUMBER ELLIPSE.
- ② THESE ARE THE CONTRACTOR DESIGNATED DRAWING NUMBERS.
- ③ NOT MORE THAN TWO WIRES PER TERMINAL BLOCK.
- ④ ALL TERMINAL BLOCKS TO BE PLACED IN NUMERICAL ORDER.
- ⑤ ALL NEUTRALS SHALL BE WHITE WIRE COLOR.
- ⑥ #12 GND TO DEVICES SHALL BE BONDED TO #8 GND LUG.

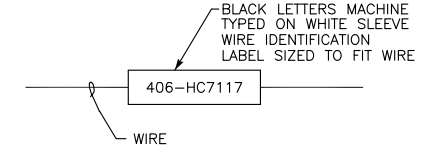
REFERENCE DOCUMENTS

DRAWING #	DESCRIPTION	MANUFACTURER
P712	P&ID DIAGRAM	DESIGN
E717	ELECTRICAL SITE PLAN	DESIGN
PAGE 32, 36	CONDUIT AND CABLE SCHEDULE	DESIGN
②1354-11	LOOP DIAGRAM	CONTRACTOR
②1354-68	ELEMENTARY DIAGRAM	CONTRACTOR

TYPICAL CONDUIT MARKING SYSTEM



TYPICAL WIRE LABEL

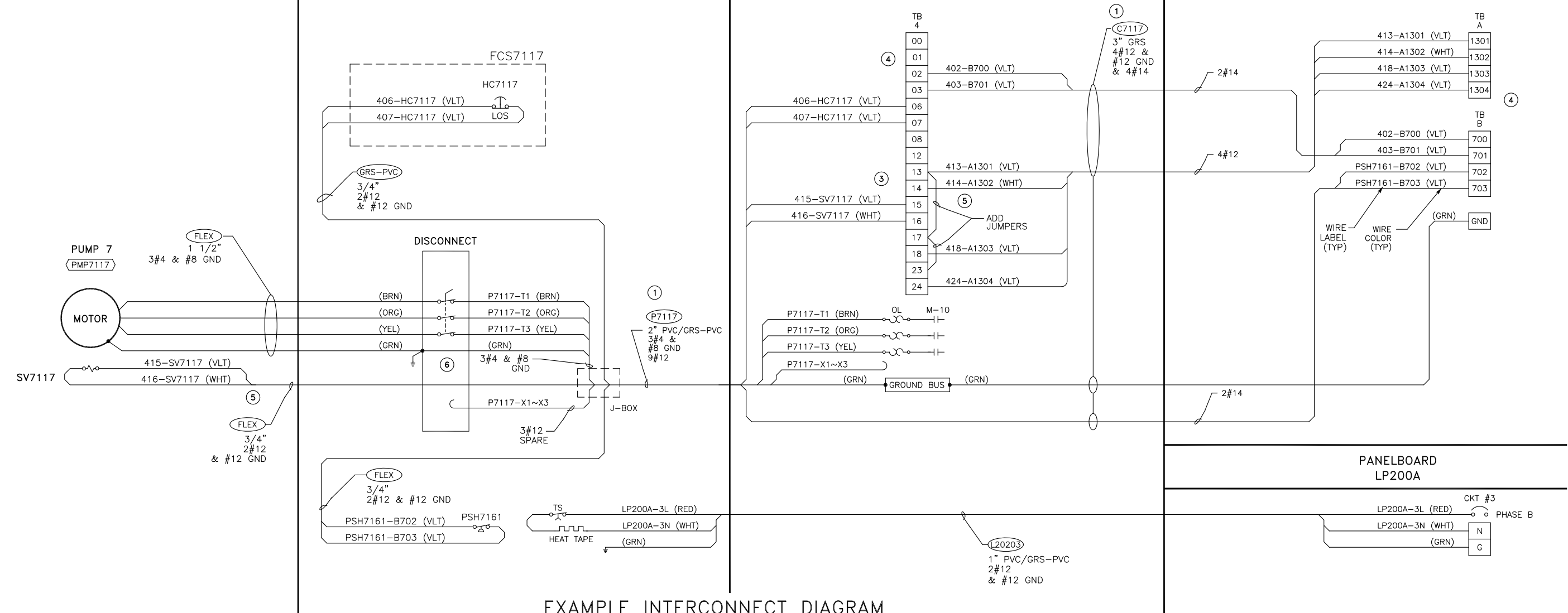


EQUIPMENT

FIELD

MCC-4 SECTION 1
CUBICLE A~E

CONTROL PANEL
NO.2



EXAMPLE INTERCONNECT DIAGRAM
(THIS DRAWING ILLUSTRATES THE FORMAT THAT SHALL BE FOLLOWED IN PREPARATION OF ALL INTERCONNECT DWGS)

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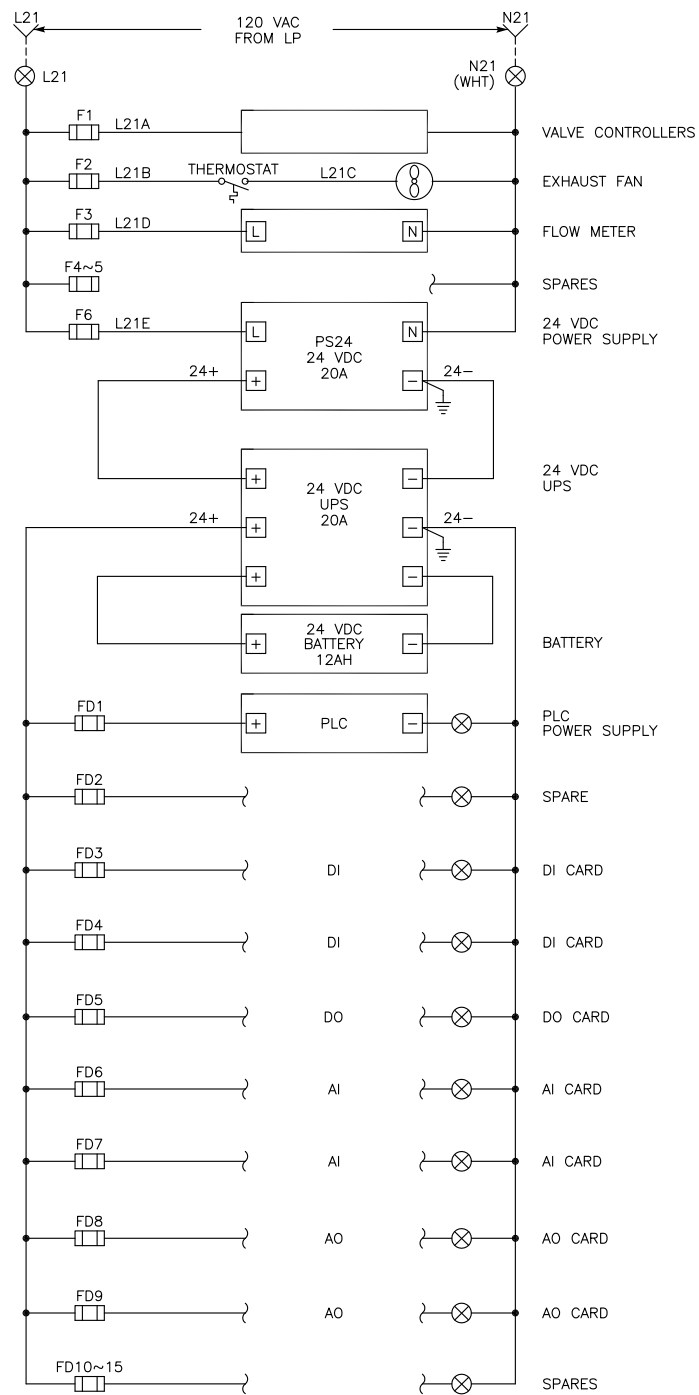


City of Napa
Dwyer Road Pump Station

EXAMPLE INTERCONNECT
DIAGRAM

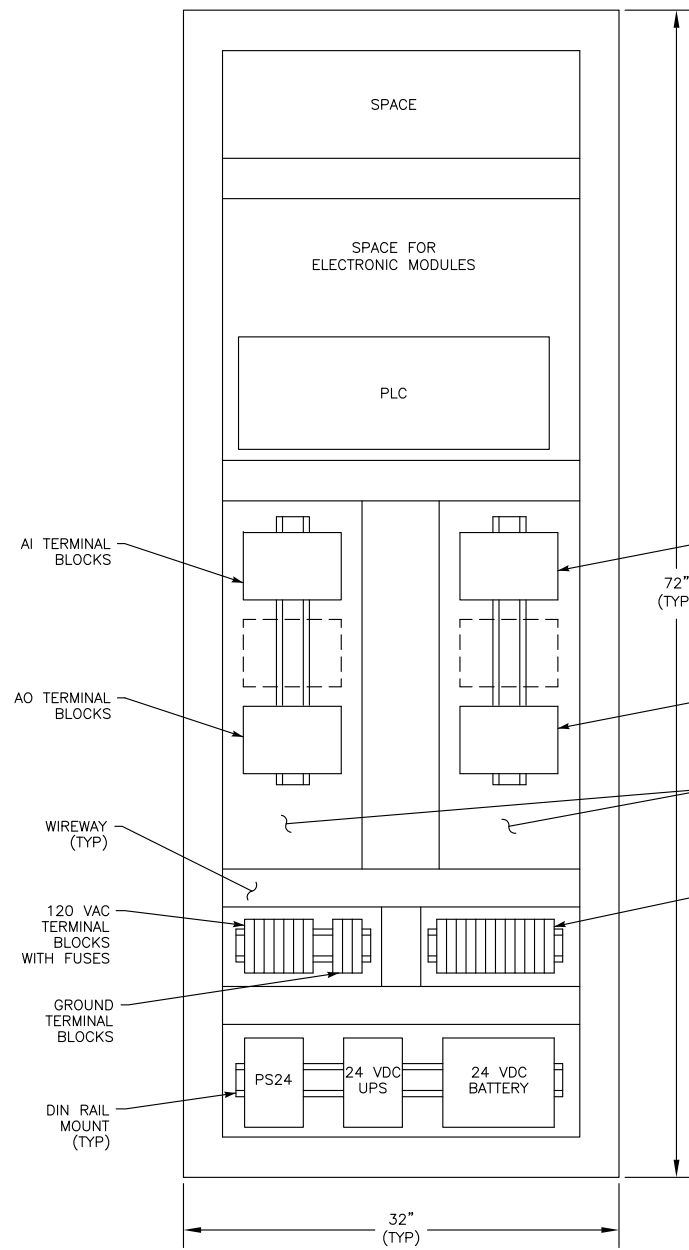
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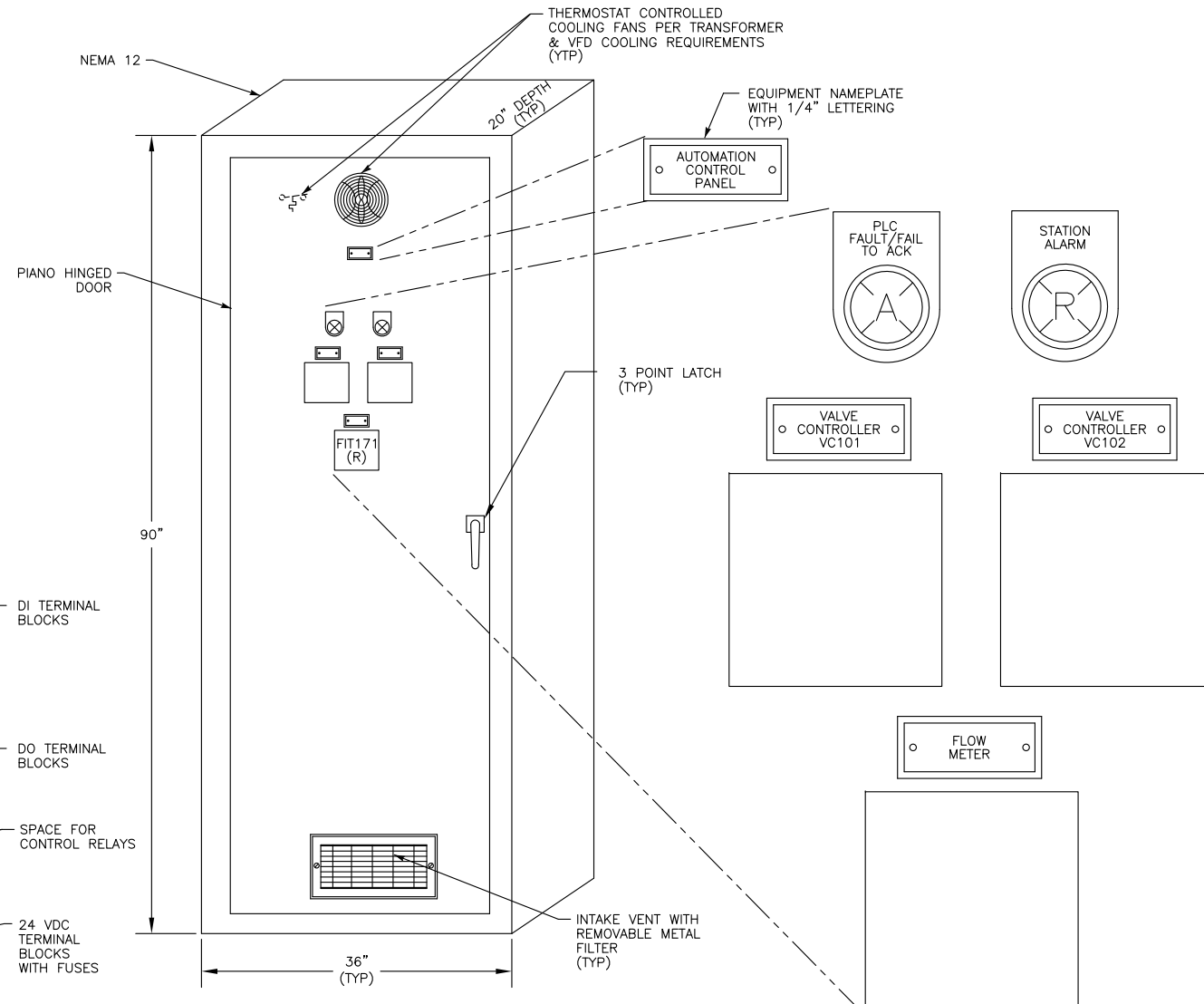


AUTOMATION CONTROL PANEL POWER DISTRIBUTION (A) E11

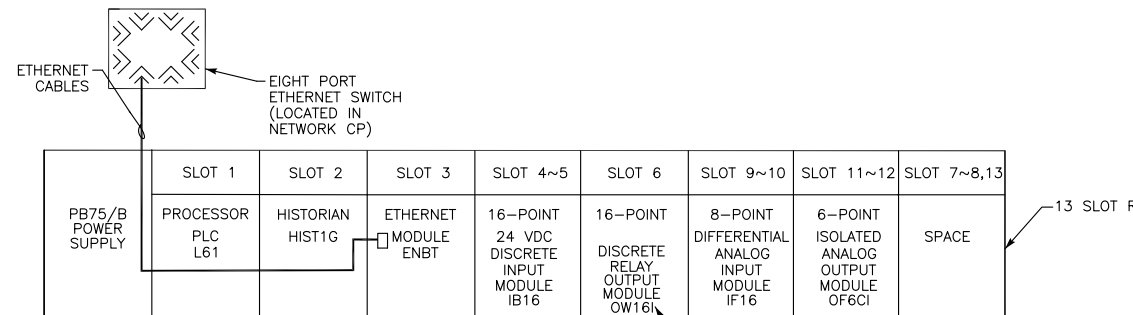
NOTES: ① DISTRIBUTION DIAGRAM REPRESENTATIVE OF MAJOR COMPONENTS ONLY. ADDITIONAL FUSES, CIRCUITS AND COMPONENT CONNECTIONS MAY BE REQUIRED FOR A FUNCTIONAL SYSTEM.



AUTOMATION CP BACKPAN LAYOUT (B) E11
NOT TO SCALE

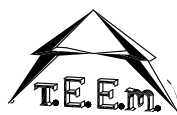


AUTOMATION CP ELEVATION (C) E11
NOT TO SCALE



PLC BLOCK DIAGRAM (D) E11
NOT TO SCALE

NOTES: ① MODULES TO BE CONNECTED WITH PREWIRED CABLES MODULE (IFM) TERMINAL BLOCKS.
② PLACE COVERS OVER ALL UNUSED SLOTS.



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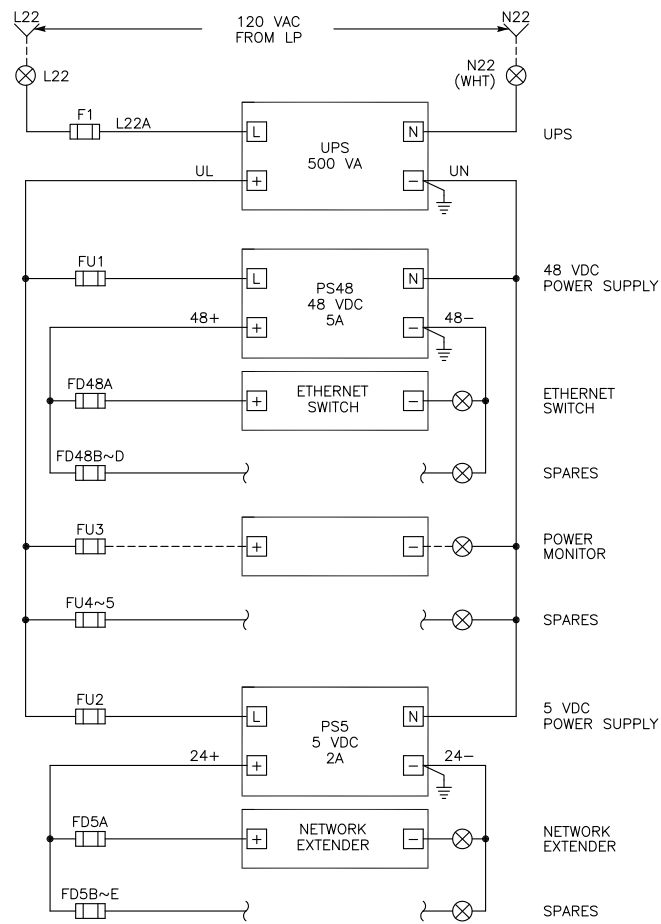
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City of Napa
Dwyer Road Pump Station
AUTOMATION CONTROL PANEL

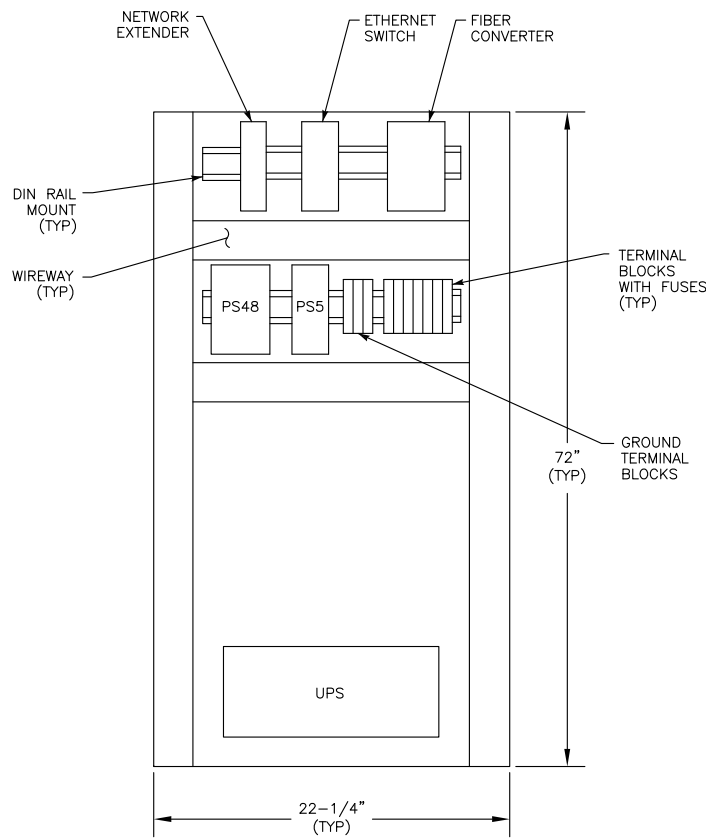
JOB NUMBER
242-00-11-13
DRAWING NUMBER
E11
SHEET NUMBER
38 OF 51
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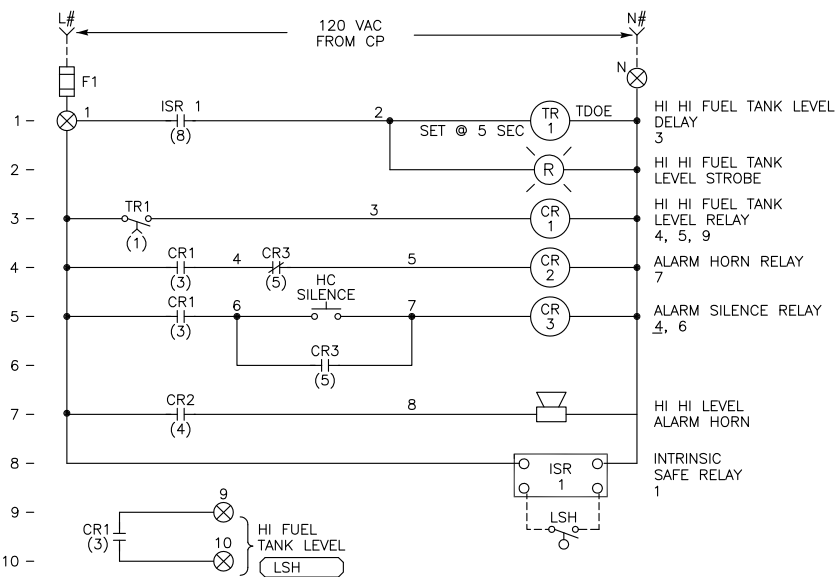
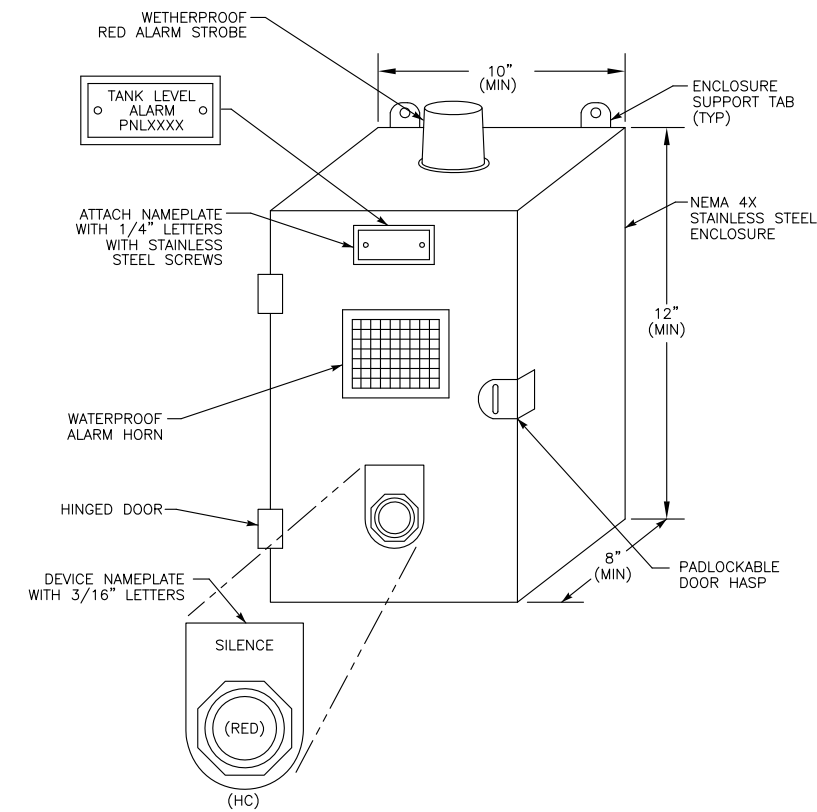
NETWORK CONTROL PANEL POWER DISTRIBUTION (A) (E12) (1)

NOTES: (1) DISTRIBUTION DIAGRAM REPRESENTATIVE OF MAJOR COMPONENTS ONLY. ADDITIONAL FUSES, CIRCUITS AND COMPONENT CONNECTIONS MAY BE REQUIRED FOR A FUNCTIONAL SYSTEM.



NETWORK CP BACKPAN LAYOUT (B) (E12) (1)
NOT TO SCALE

NOTES: (1) CONTROL PANEL SHALL BE FREE-STANDING NEMA 12 ENCLOSURE WITH MINIMUM DIMENSION 24"(W) x 90"(H) x 20"(D).



TANK LEVEL ALARM PANEL ELEMENTARY & ELEVATION (C) (E12) (1)
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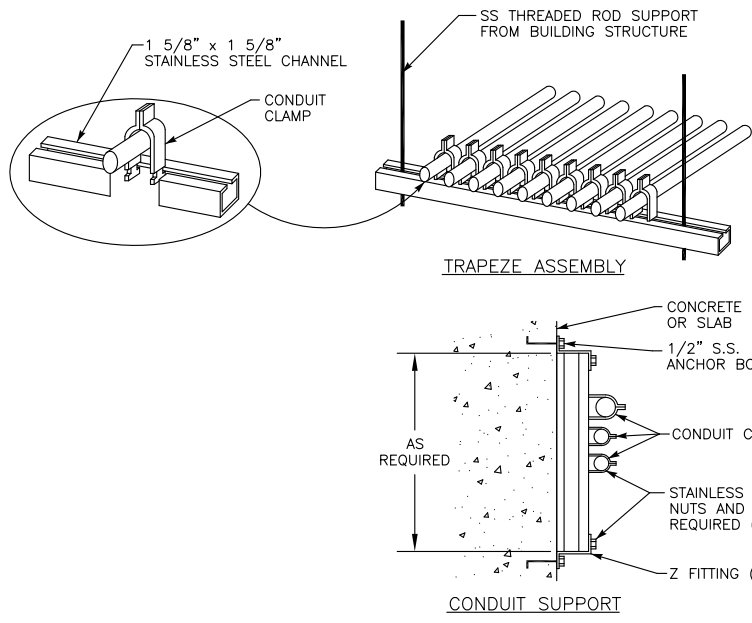


City of Napa
Dwyer Road Pump Station
NETWORK CONTROL PANEL & TANK ALARM PANEL

JOB NUMBER	242-00-11-13
DRAWING NUMBER	E12
SHEET NUMBER	39 OF 51
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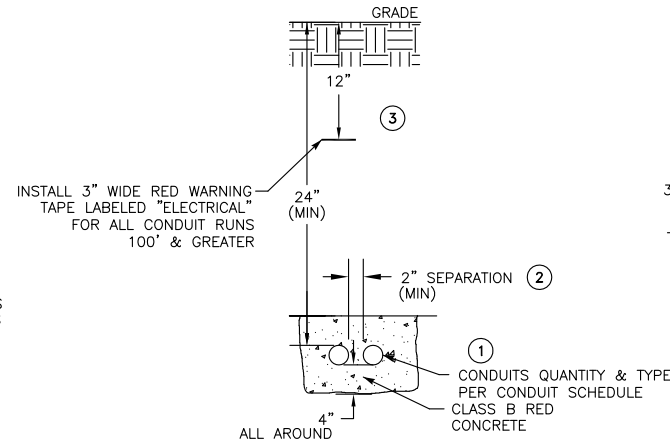
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EXHIBIT G
SUBRECIPIENT PROFILE



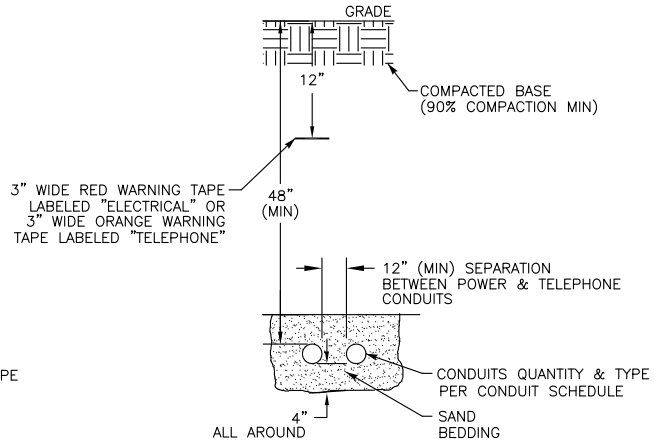
CONDUIT UNISTRUT MOUNTING (A)
NOT TO SCALE
DETAIL E21

- NOTES: ① THIS DETAIL TYPICAL FOR BOTH VERTICAL AND HORIZONTAL MOUNTING.
② CHANNEL AND ALL SUPPORT DEVICES TO BE NEMA RATED PER AREA CLASSIFICATION. FIELD COAT ALL CUTS, ETC. TO MATCH.
③ CHANNELS TO BE SPACED 5' MAXIMUM.



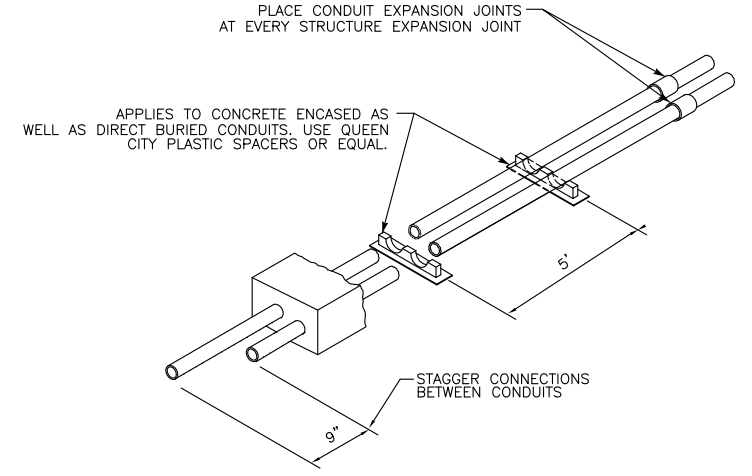
ENCASED CONDUITS (B)
NOT TO SCALE
DETAIL E21

- NOTES: ① PLACE CONDUIT RUNS OF 4 CONDUITS OR GREATER IN PLASTIC SPACERS (RATED FOR DIRECT BURIAL) EVERY 5' ALONG LENGTH OF RUN.
② PROVIDE 12" (MIN) SEPERATION BETWEEN "A, C & D" TYPE GROUP AND "L & P" TYPE GROUP CONDUITS.
③ TRENCHING & COMPACTED BACKFILL PER CIVIL SPECIFICATIONS.

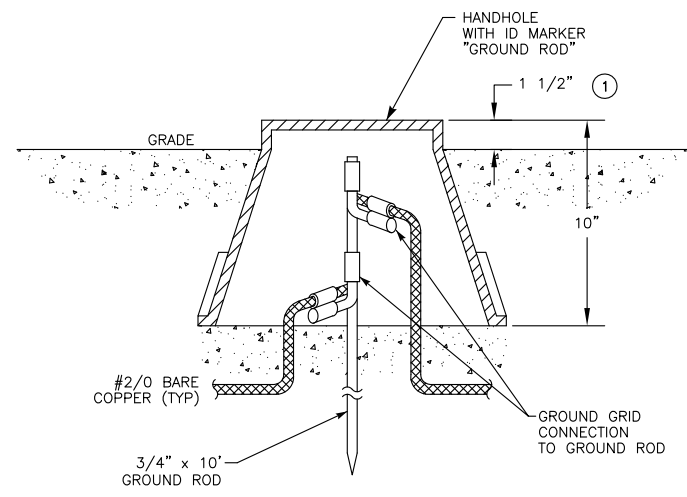


UTILITY CONDUITS (C)
NOT TO SCALE
DETAIL E21

- NOTES: ① PROVIDE SPACERS & JOINTS PER DETAIL DWG E21, DETAIL "D".

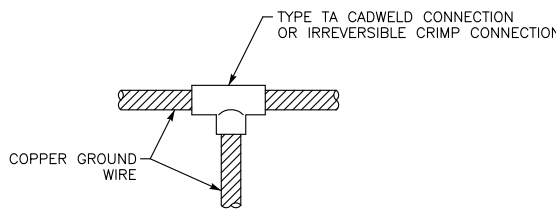


SPACERS AND JOINTS INSTALLATION (D)
NOT TO SCALE
DETAIL E21

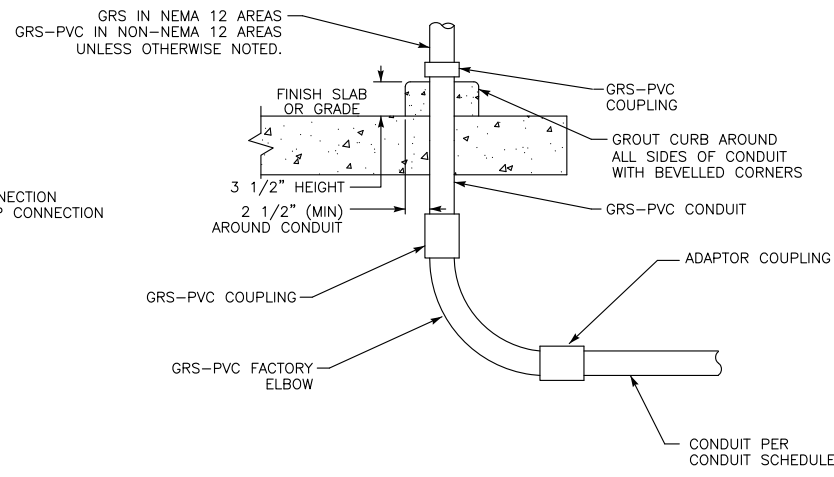


HANDHOLE GROUNDING (E)
NOT TO SCALE
DETAIL E21

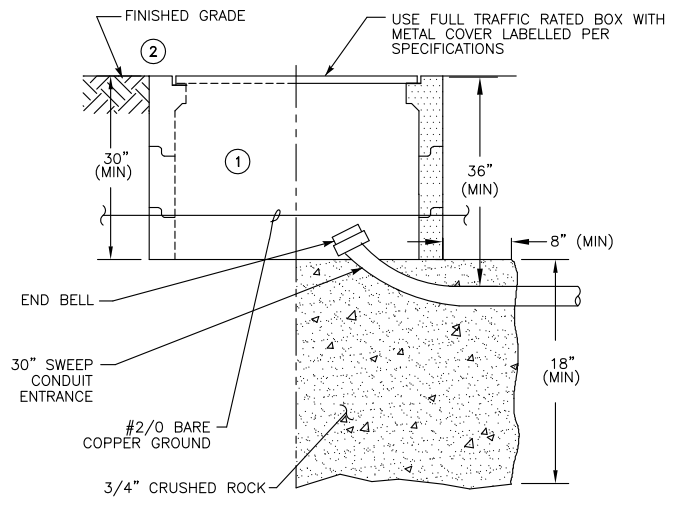
- NOTES: ① FLUSH IN PAVED AREAS.



GROUND CABLE CONNECTION (F)
NOT TO SCALE
DETAIL E21



EXPOSED CONDUIT TRANSITION (G)
NOT TO SCALE
DETAIL E21



PULL BOX (H)
NOT TO SCALE
DETAIL E21

- NOTES: ① TRAFFIC RATED CHRISTY "B" SERIES OR EQUAL, MINIMUM BOX SIZE PER PLANS. PROVIDE LARGER AT NO ADDITIONAL COST TO OWNER.
② ADD EXTENSIONS WHERE NECESSARY TO RAISE COVER TO FINISHED GRADE.
③ GROUND COVER FRAME, COVER AND OTHER EXPOSED METAL PARTS TO #2/0 BARE COPPER GROUND CABLE.

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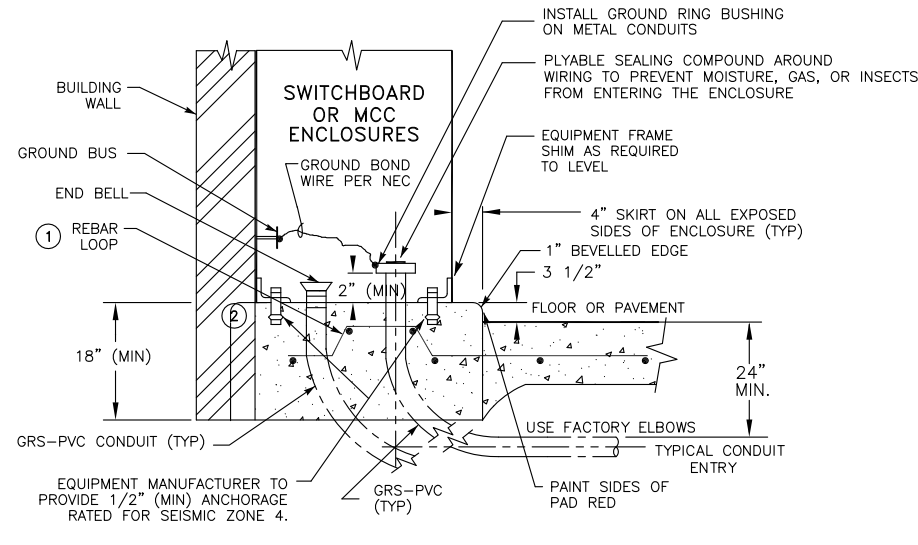


City of Napa
Dwyer Road Pump Station

**TYPICAL ELECTRICAL
DETAILS NO.1**

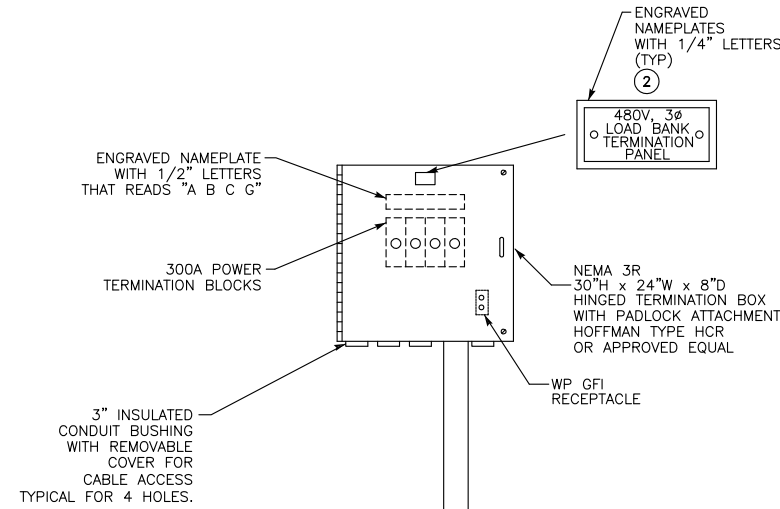
JOB NUMBER 242-00-11-13
DRAWING NUMBER E21
SHEET NUMBER 40 OF 51
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EXHIBIT G
SUBRECIPIENT PROFILE



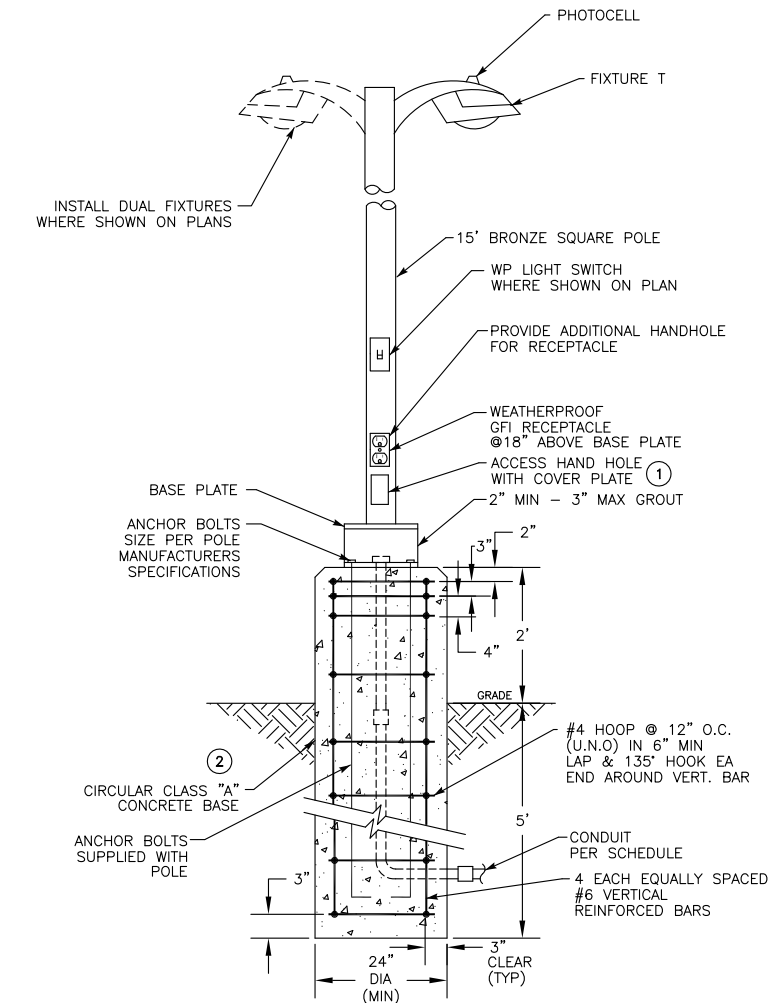
EQUIPMENT CONCRETE PAD
NOT TO SCALE
DETAIL (A)
E22

- NOTES: ① CONCRETE PAD ABOVE FLOOR TO BE POURED AFTER MAIN PAD HAD BEEN POURED. PAD ABOVE FLOOR TO BE CLASS "A" CONCRETE COMPOSITION, ACCURATELY LEVELED WITHIN 1/16 INCH. REBAR TO BE #4 @ 12" CROSSWAYS & VERTICAL EVERY 6" (MINIMUM) OR AS CALLED OUT IN STRUCTURAL DRAWINGS.
② IF NO BUILDING WALL EXTEND PAD 4" BEYOND ENCLOSURE ON BACK & SIDES.



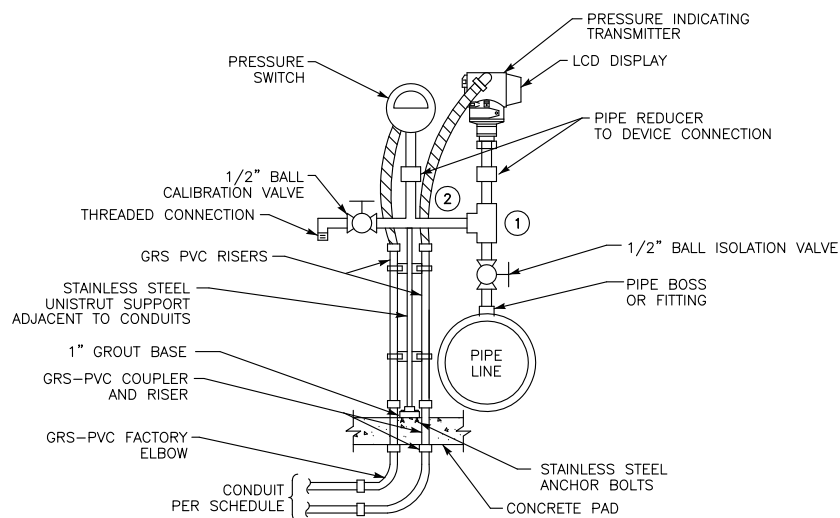
LOAD BANK TERMINATION PANEL
NOT TO SCALE
DETAIL (B)
E22

- NOTES: ① INSTALL ON WALL WITH STAINLESS STEEL UNISTRUT, HARDWARE & ANCHORS.
② ATTACH NAMEPLATES WITH SS SCREWS.



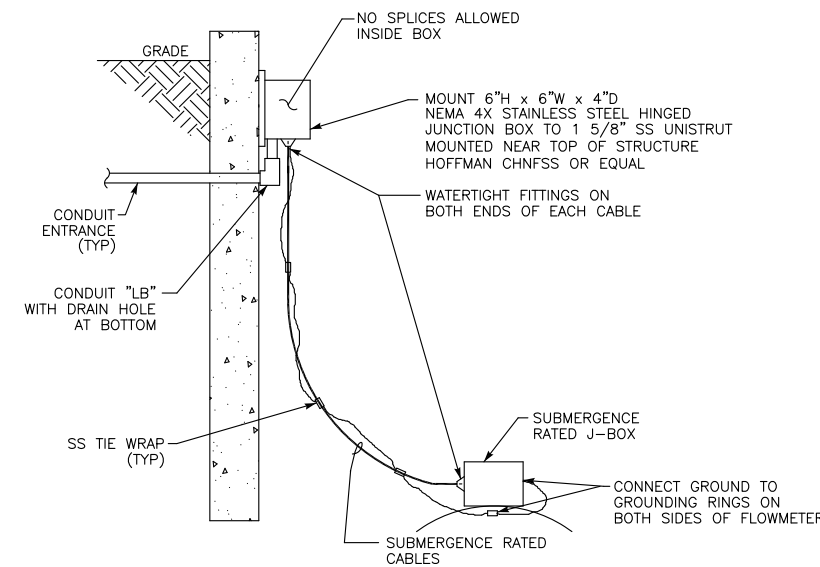
AREA LIGHT
NOT TO SCALE
DETAIL (E)
E22

- NOTES: ① PROVIDE 2 POLE FUSE HOLDER WITH FUSES & RUBBER BOOTS ON LIGHT WIRING FEED INSIDE HANDHOLE.
② PLACE FINISH CONCRETE ON EXPOSED SURFACE AFTER FORMING TUBE IS REMOVED.

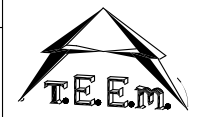


PRESSURE SWITCH/INDICATOR
NOT TO SCALE
DETAIL (C)
E22

- NOTES: ① 1/2" GALVANIZED, PIPING MULTIPOINT BLOCK MANIFOLD & VALVES.
② SUPPORT HORIZONTAL PIPE WITH SS CLAMP TO VERTICAL UNISTRUT.



BELOW GRADE FLOWMETER INSTALLATION
NOT TO SCALE
DETAIL (D)
E22



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REGISTERED PROFESSIONAL ENGINEER
SHARON M. KIMMEL
NO. 15698
Exp. 6-30-2012
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STATE OF CALIFORNIA

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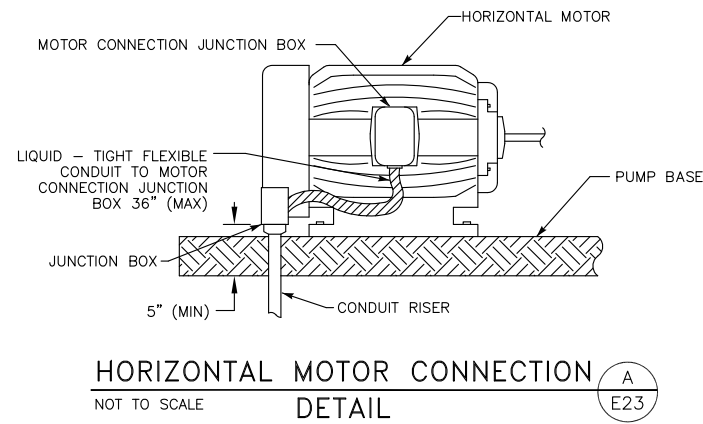
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City of Napa
Dwyer Road Pump Station
TYPICAL ELECTRICAL
DETAILS NO.2

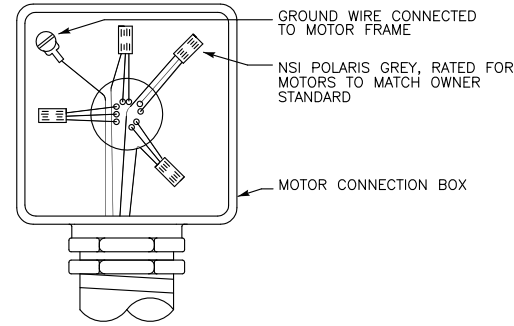
JOB NUMBER 242-00-11-13
DRAWING NUMBER E22
SHEET NUMBER 41 OF 51
REVISION

EXHIBIT G
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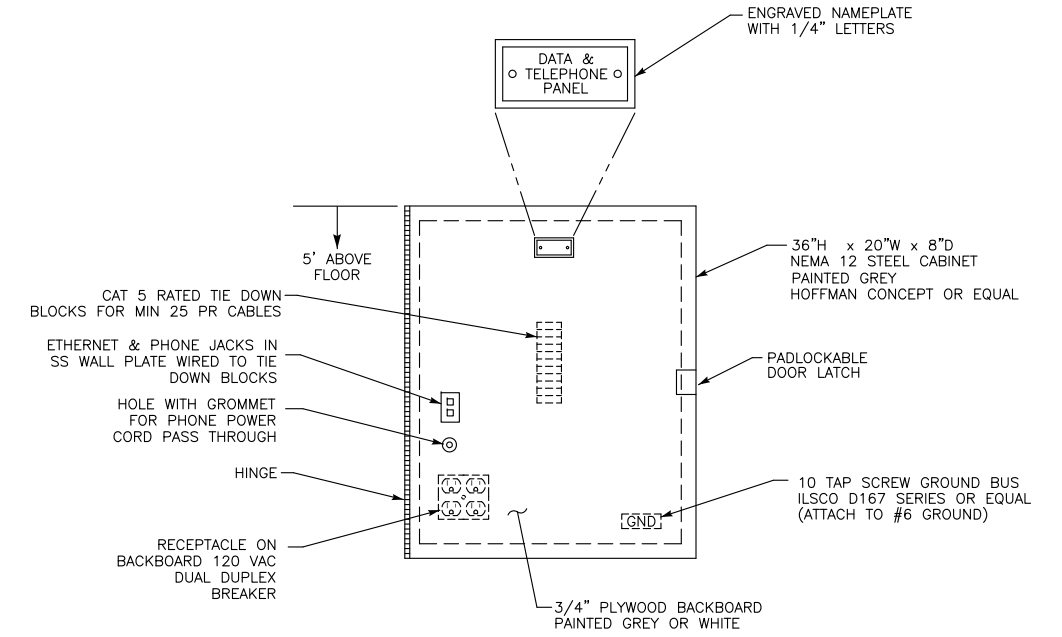


HORIZONTAL MOTOR CONNECTION
NOT TO SCALE **DETAIL** (A) E23

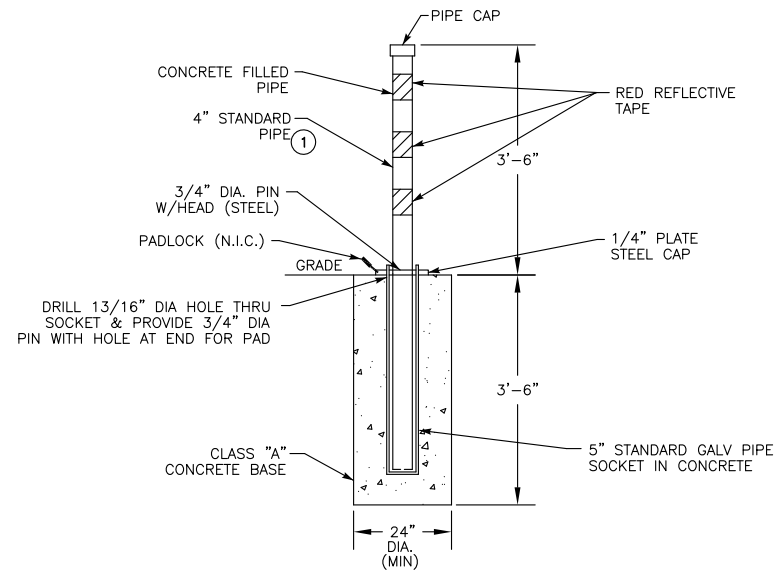
NOTES: ① MOTOR MAKE-UP PER DWG E23, DET "D".



MOTOR MAKE-UP
NOT TO SCALE **DETAIL** (B) E23

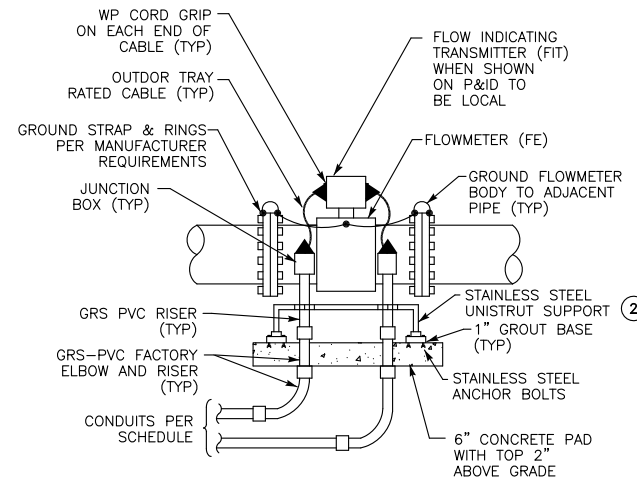


DATA & TELEPHONE PANEL
NOT TO SCALE **DETAIL** (C) E23



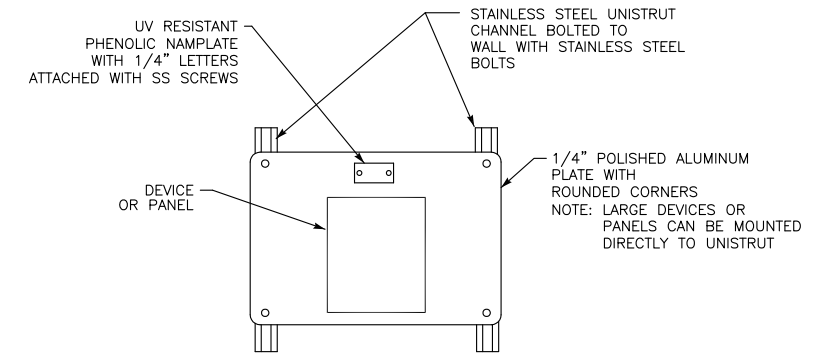
REMOVABLE GUARD POLE
NOT TO SCALE **DETAIL** (D) E23

NOTE: ① GUARD POSTS SHALL BE PAINTED YELLOW TO PREVENT CORROSION.



ABOVE GRADE FLOWMETER
NOT TO SCALE **DETAIL** (E) E23

NOTES: ① SIMILAR INSTALLATION SHALL BE USED FOR VERTICAL PIPES.
② SUPPORT WITH TWO HOLE BASE ON EACH SIDE AND HEIGHT OF HORIZONTAL UNISTRUT SUPPORT TO BE 12\"/>



WALL PLATE SUPPORT
NOT TO SCALE **DETAIL** (F) E23



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City of Napa
Dwyer Road Pump Station
TYPICAL ELECTRICAL
DETAILS NO.3

JOB NUMBER
242-00-11-13
DRAWING NUMBER
E23
SHEET NUMBER
42 OF **51**
REVISION

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EXHIBIT G
SUBRECIPIENT PROFILE

DWG REF: E5 NAMEPLATE: LP LOCATION: PUMP STATION BUILDING			MOUNTING: SURFACE			VOLTS: 120 / 208 PHASE: 3 WIRE: 4			BUS AMPS: 100A MAIN BKR: 100A KAIC RATING: 22			ENTRY: BOTTOM NEMA: 12 SPD: YES		
BKR NO.	LOAD DESCRIPTION	LOAD VA	LINE AMPS	BKR AMP/POLE	BKR NO.	PHASE	BKR NO.	AMP/POLE	LINE AMPS	LOAD VA	LOAD DESCRIPTION	BKR NO.		
1	LIGHTS - PUMP AREA	768	6	20/1	1	A	2	20/1	11	1,260	RECEPT - MCC AREA	2		
3	LIGHTS - CONTROL AREA	384	3	20/1	3	B	4	20/1	6	700	RECEPT - SUMP PUMP	4		
5	LIGHTS - OUTSIDE BUILDING	360	3	20/1	5	C	6	20/1	11	1,260	RECEPT - OUTSIDE BLDG	6		
7	SPARE	0	0	20/1	7	A	8	20/1	0	0	SPARE	8		
9	AREA LIGHT	85	1	20/1	9	B	10	20/1	3	300	GEN/LOAD BANK TERMINATION PNL	10		
11	FIT171	100	1	20/1	11	C	12	20/1	2	200	MMS	12		
13	CATHODIC PNL	200	2	20/1	13	A	14	20/1	0	0	SPARE	14		
15	GENERATOR HEATER	1,000	8	20/1(L)	15	B	16	20/1	0	0	SPARE	16		
17	SPARE	0	0	20/1(L)	17	C	18	20/1	0	0	SPARE	18		
19	GEN BATTERY CHARGER	500	4	20/1(L)	19	A	20	20/1	0	0	SPARE	20		
21	AUTOMATION CP	800	7	20/1	21	B	22	20/1	3	400	NETWORK CP	22		
23	TELEPHONE PANEL	100	1	20/1	23	C	24	20/1 (L)	0	0	SPARE	24		
25	AC UNIT	900	8	15/2	25	A	26	100/3	0	0	MAIN	26		
27		900	8	(H)(L)	27	B	28		0	0		28		
29	SPARE	0	0	20/1	29	C	30		0	0		30		

PHASE A B C			PHASE 350 B C			
LEFT SIDE AMPS	20	26	5	11	12	12
LEFT SIDE KVA	2.37	3.17	0.56	1.26	1.40	1.46
TOTAL KVA	10.22			3.63	4.57	2.02
TOTAL AMPS @ 208V, 3P	28.4			30	38	17
DIVERSITY FACTOR	0.90			107	134	59
LOAD KVA	9.20			% OF AVERAGE		

NEUTRAL

GROUND

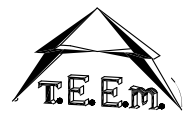
GENERAL NOTES THAT APPLY TO LIGHTING AND RECEPTACLE PLAN

- PROVIDE AND INSTALL NECESSARY WIRES IN CONCEALED 3/4" (MIN) GRS CONDUIT FOR LIGHTING AND RECEPTACLE ARRANGEMENT AS SHOWN. IF CONDUITS ARE ROUTED UNDERGROUND, THE UNDERGROUND SECTION AND CONCEALED RISER TO FIRST DEVICE BOX BY BE PVC-80.
- DEVICE BOXES AND CONDUIT BODIES SHALL BE METALLIC. IN NEMA 4X AREAS, USE MALLEABLE METALLIC BOXES.
- CONDUCTORS SHALL BE COPPER TYPE THHN, #12 AWG (MINIMUM).
- MOUNT CONDUITS USING SINGLE BOLT GALVANIZED PIPE STRAPS AND CLAMP BACK SPACERS.
- USE SS EXPANSION WEDGE ANCHORS OR EPOXY ANCHORS AS NECESSARY FOR EQUIPMENT MOUNTING.
- PROVIDE AND INSTALL FIXTURES PER SCHEDULE THIS PAGE, QUANTITY AS SHOWN IN DRAWING.
- PROVIDE AND INSTALL ALL DEVICE BOXES, JUNCTION BOXES, RECEPTACLES, SWITCHES, AND COVERS.
- RECEPTACLES TO BE GROUND FAULT INTERRUPTER (GFI) TYPE AND WEATHERPROOF (WP) WHERE SHOWN.
- SEE ELECTRICAL SYMBOLS AND ABBREVIATIONS DRAWING FOR SYMBOL DEFINITION.
- ALL WORK SHALL CONFORM TO LOCAL CODES AND 2011 NATIONAL ELECTRIC CODE.

- NOTES:
- MEANS OF WIRE COLOR CODING SHALL BE POSTED ON PANELBOARD PER NEC 210.5
 - (G) INDICATES GFI BREAKER REQUIRED WITH 30 MA SENSITIVITY.
 - (H) INDICATES HACR RATED BREAKER.
 - (L) PROVIDE PADLOCKING PROVISION IN ORDER TO LOCK BREAKER IN THE OFF POSITION.

CODE LETTER	FIXTURE TYPE	FINISH	FIXTURE LAMPS	WATTS/FIXTURE	MANUFACTURER OR APPROVED EQUAL	MOUNTING ARRANGEMENT	NOTES
A	FLUORESCENT LUMINAIRE, 4 FT MOLDED FIBERGLASS POLYESTER BODY HIGH IMPACT ACRYLIC LENS	WHITE	32W T8 2 EACH 120 VAC	64	DAY-BRITE VAPORLUME DWA	SWIVEL CANOPY AND STEMS 10 FT FROM FLOOR	UL LISTED FOR WET LOCATIONS 130° AMBIENT LOW TEMP ELECTRONIC BALLAST
E	EMERGENCY LIGHTING IMPACT RESISTANT CONTEMPORARY HOUSING REGULATED CHARGER	WHITE	3W LED 2 EACH 120 VAC	3	LITHONIA QUANTUM LED SERIES ELM2	WALL MOUNTED AT 9'	SEALED NICKEL CALCIUM BATTERY TEST SWITCH UL LISTED FOR DAMP ENVIRONMENT
G	SECURITY LIGHT MULTI-LEVEL MOTION CONTROL TYPE 3 DISTRIBUTION	DARK BRONZE	90W LED 1 EACH 120 VAC	90	BETA ARE-EDG-3M-DA-08-UL-BZ-525ma-ML	WALL MOUNT AT 9 FT OR ABOVE DOOR	U.L. LISTED FOR WET LOCATIONS PHOTOCELL PE (WHERE SHOWN)
T	AREA LIGHT ONE PIECE, DIE CAST ALUMINUM HOUSING WITH HIGH TRANSMISSION GLASS LENS, FUSED	BRONZE	85W LED 1 EACH 120 VAC	85	PHILIPS GARDCO GULLWING LED G13-1-3-85LA-CW-UNIV-BRP	MOUNT ON POLE PER DWG E22 DET E	U.L. LISTED FOR WET LOCATIONS FUSE IN HAND HOLE PHOTO CELL PE (WHERE SHOWN)
X	EXIT LIGHTING WITH NICAD BATTERY STEEL HOUSING SELF POWERED, GREEN LETTERS	WHITE	LED TYPE 120 VAC	3.8	EMERGI-LITE LWSNX-X14	UNIVERSAL MOUNT	UL LISTED TEST SWITCH

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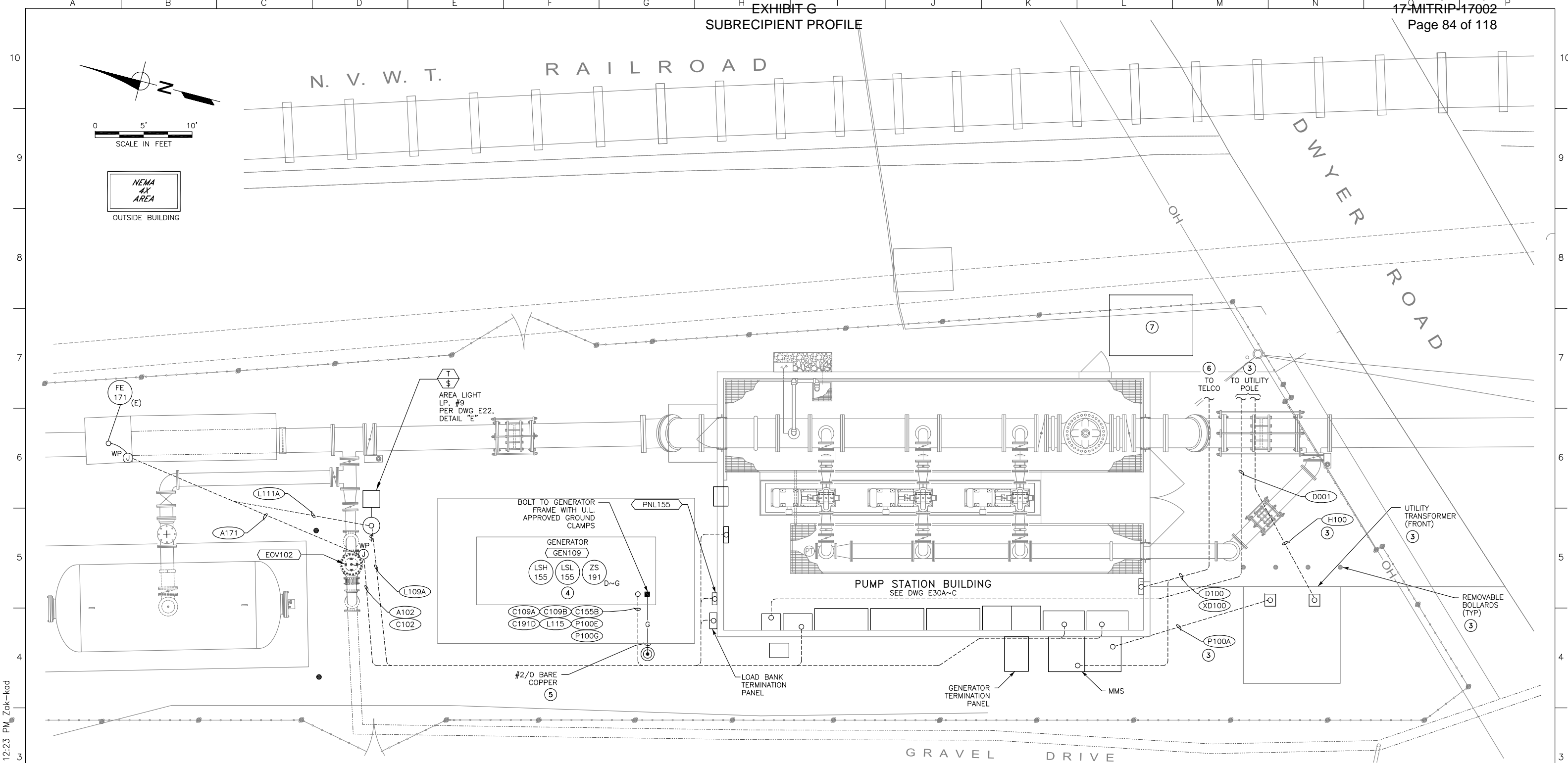


City of Napa
Dwyer Road Pump Station

**LIGHTING PANELBOARD,
FIXTURE SCHEDULE & GENERAL NOTES**

JOB NUMBER 242-00-11-13
DRAWING NUMBER E24
SHEET NUMBER 43 OF 51
REVISION

EXHIBIT G
SUBRECIPIENT PROFILE



ELECTRICAL OVERALL SITE PLAN ①②

- NOTES:
- ① UG CONDUITS PER DWG E21, DETAIL "B".
 - ② UG CONDUITS TRANSITIONS PER DWG E21, DETAIL "G".
 - ③ PRIMARY & SECONDARY CONDUITS, TRANSFORMER PAD, GROUNDING SYSTEM, REMOVABLE BOLLARDS & PRIMARY POLE RISER TO BE INSTALLED BY CONTRACTOR PER UTILITY ENGINEERED DRAWINGS.
 - ④ STUB UP CONDUITS AT LOCATIONS RECOMMENDED BY GENERATOR MANUFACTURER.
 - ⑤ GROUND BONDS TO CONSIST OF #2/0 BARE COPPER WITH 30" MINIMUM COVER.
 - ⑥ TELEPHONE CONDUITS AND PULL BOX TO BE INSTALLED BY CONTRACTOR PER TELCO COMPANY REQUIREMENTS.
 - ⑦ PROVIDE TEMPORARY POWER AND CONTROLS TO KEEP PUMP STATION IN SERVICE DURING CONSTRUCTION PER OWNER'S INSTRUCTION, SEE DWG C2.

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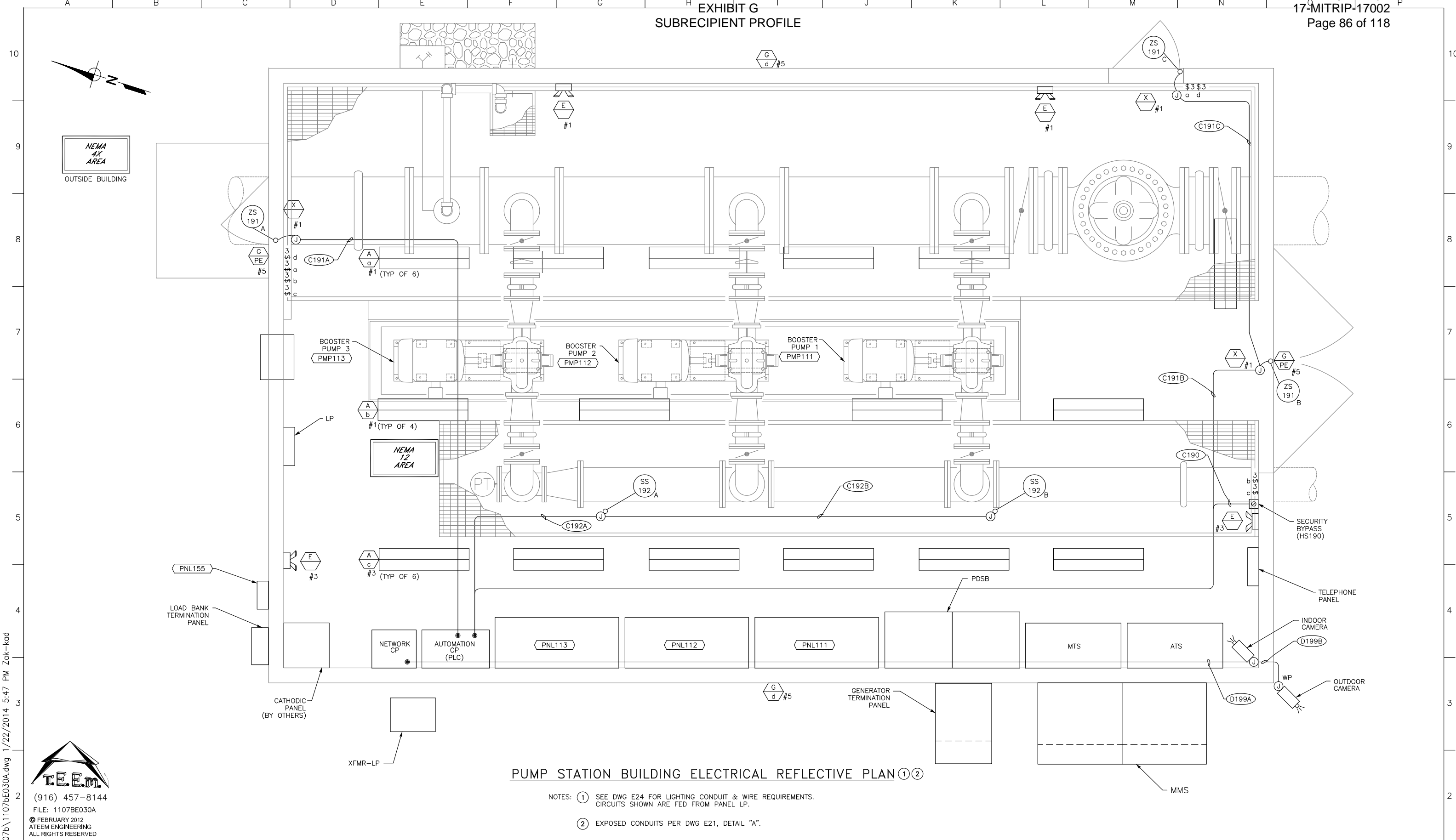
City of Napa
Dwyer Road Pump Station

ELECTRICAL OVERALL SITE PLAN

JOB NUMBER 242-00-11-13
DRAWING NUMBER E25
SHEET NUMBER 44 OF 51
REVISION

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EXHIBIT G
 SUBRECIPIENT PROFILE



PUMP STATION BUILDING ELECTRICAL REFLECTIVE PLAN ①②

- NOTES: ① SEE DWG E24 FOR LIGHTING CONDUIT & WIRE REQUIREMENTS. CIRCUITS SHOWN ARE FED FROM PANEL LP.
 ② EXPOSED CONDUITS PER DWG E21, DETAIL "A".

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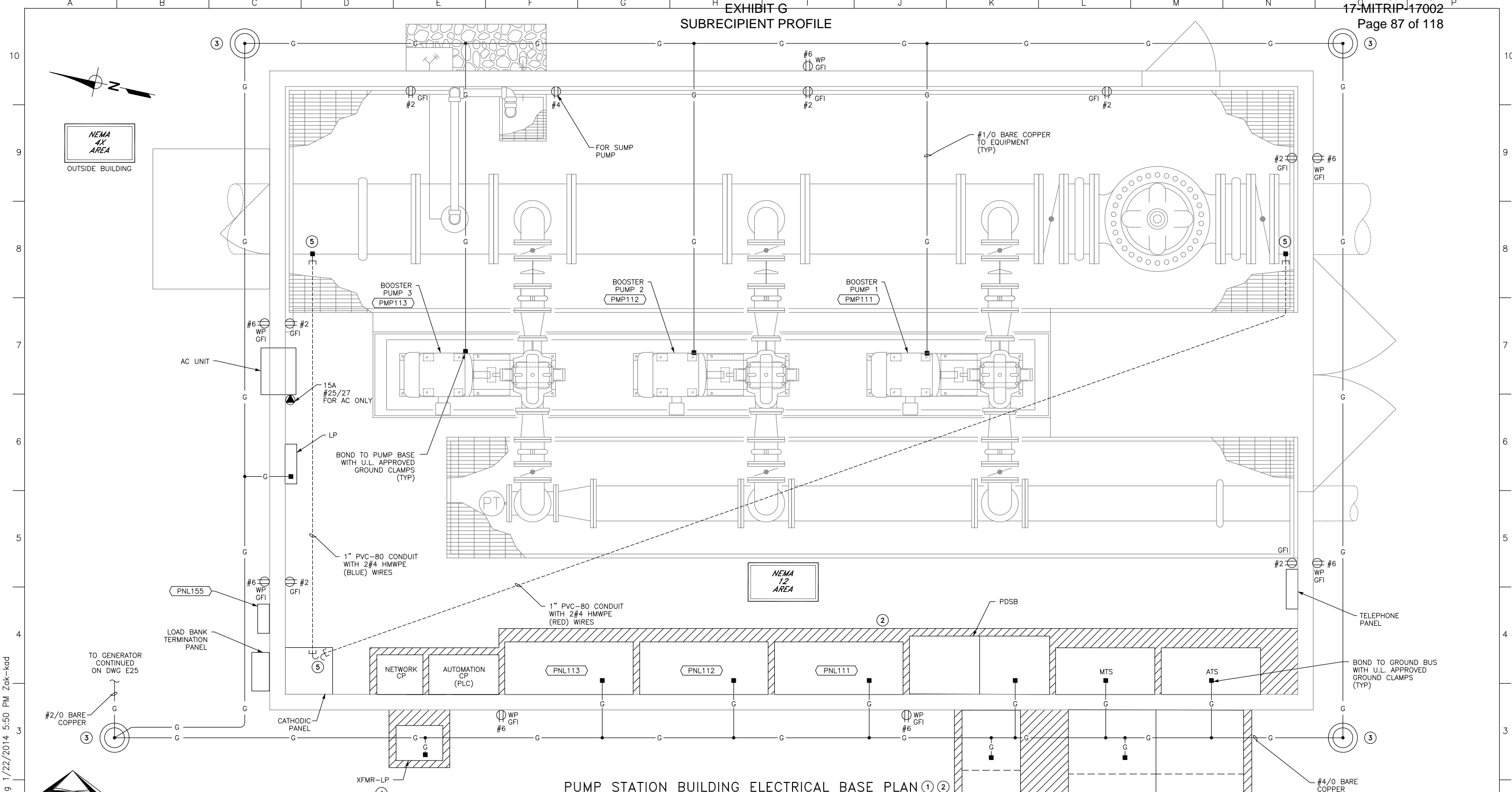
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CITY of NAPA

City of Napa
 Dwyer Road Pump Station
 PUMP STATION BUILDING
 ELECTRICAL REFLECTIVE PLAN

JOB NUMBER 242-00-11-13
DRAWING NUMBER E30A
SHEET NUMBER 46 OF 51
REVISION

EXHIBIT G
SUBRECIPIENT PROFILE



- NOTES:
- ① SEE DWG E24 FOR LIGHTING CONDUIT & WIRE REQUIREMENTS. CIRCUITS SHOWN ARE FED FROM PANEL LP.
 - ② EQUIPMENT HOUSEKEEPING CONCRETE PAD PER DWG E22, DETAIL "A".
 - ③ GROUND RING & GROUND BONDS TO CONSIST OF #4/0 BARE COPPER WITH 30" MINIMUM COVER. INSTALL GROUND ROD HANDHOLE PER DWG E21, DETAIL "E" AND LOCATION PER DWG C2.

- ④ PLACE TRANSFORMER ON A 3-1/2" HOUSEKEEPING CONCRETE PAD. SPACE TRANSFORMER OUT FROM WALL PER TRANSFORMER MANUFACTURER'S RECOMMENDATIONS.
- ⑤ COIL UP MINIMUM 5' EXTRA WIRES IN PANEL AND BOND TO WATER PIPE PER OWNER'S INSTRUCTION.

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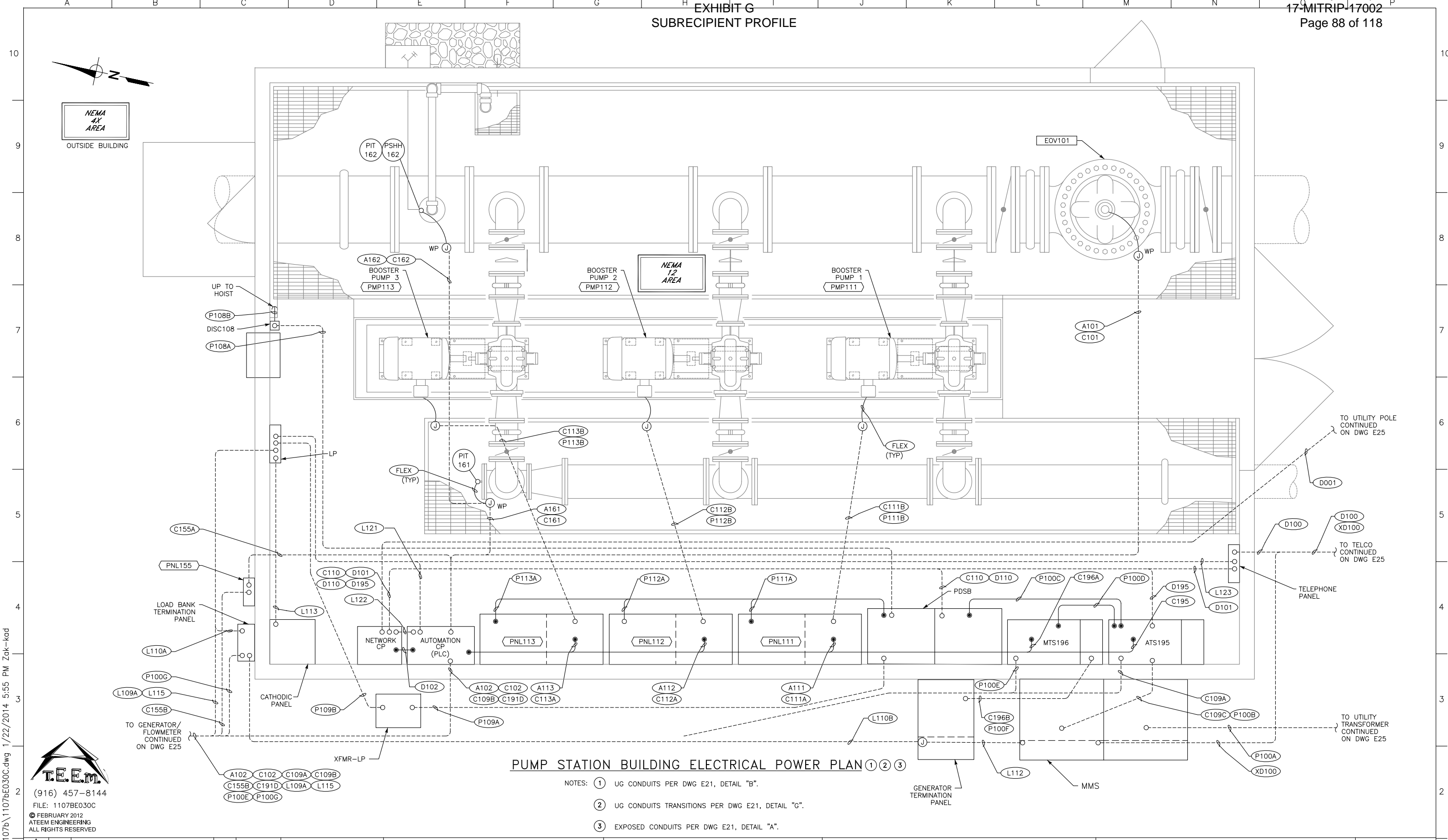
City of Napa
Dwyer Road Pump Station

**PUMP STATION BUILDING
ELECTRICAL BASE PLAN**

JOB NUMBER 242-00-11-13
DRAWING NUMBER E30B
SHEET NUMBER 47 OF 51
REVISION

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EXHIBIT G
SUBRECIPIENT PROFILE



PUMP STATION BUILDING ELECTRICAL POWER PLAN ① ② ③

- NOTES: ① UG CONDUITS PER DWG E21, DETAIL "B".
 ② UG CONDUITS TRANSITIONS PER DWG E21, DETAIL "G".
 ③ EXPOSED CONDUITS PER DWG E21, DETAIL "A".

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CITY of NAPA

City of Napa
 Dwyer Road Pump Station

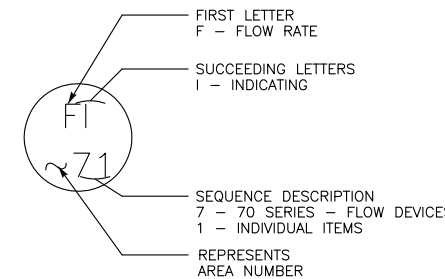
**PUMP STATION BUILDING
 ELECTRICAL POWER PLAN**

JOB NUMBER 242-00-11-13
DRAWING NUMBER E30C
SHEET NUMBER 48 OF 51
REVISION

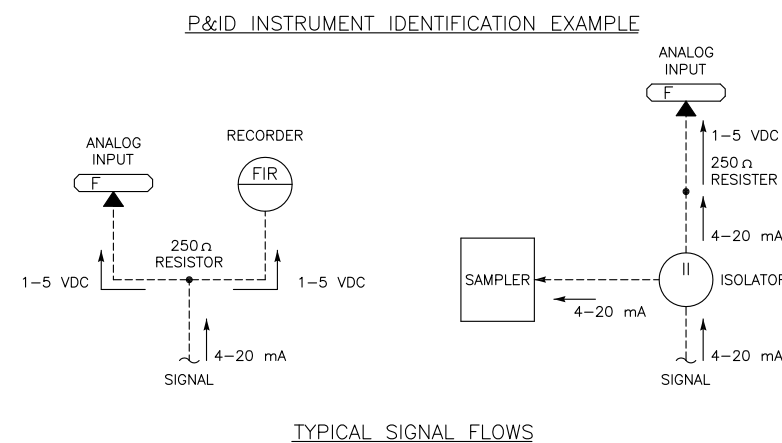
EXHIBIT G
SUBRECIPIENT PROFILE

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
P & I DIAGRAM SYMBOLS		P & I DIAGRAM SYMBOLS	
	FIELD MOUNTED INSTRUMENT		VALVE (GENERAL)
	FACE MOUNTED INSTRUMENT ON LOCAL PANEL, OPERATOR ACCESSIBLE		GATE (GENERAL)
	FACE MOUNTED INSTRUMENT ON FIELD PANEL, OPERATOR ACCESSIBLE		SWING CHECK VALVE
	INSTRUMENT MOUNTED IN LOCAL PANEL, OPERATOR INACCESSIBLE		
	INSTRUMENT MOUNTED IN FIELD PANEL, OPERATOR INACCESSIBLE		PUMP (GENERAL)
	OPERATION PERFORMED WITH LOGIC OR HARDWIRED DEVICES		
	DWG # - REFERENCE ELEMENTARY DWG. #		EQUIPMENT NUMBER
	PLC OR COMPUTER FUNCTION PERFORMING OPERATION WITH VISUAL INDICATION		ELECTRIC SIGNAL
	PLC OR COMPUTER FUNCTION PERFORMING OPERATION WITH VISUAL ALARM INDICATION		LOGIC OR DATA SIGNAL
	PLC OR COMPUTER PERFORMING INTERNAL OPERATION		PNEUMATIC SIGNAL
	PLC OR COMPUTER PERFORMING INTERNAL ALARM OPERATION		CAPILLARY TUBING (FILLED SYSTEM)
	PROPORTIONAL, INTEGRAL, AND DIFFERENTIAL PARAMETERS		HYDRAULIC SIGNAL
	RATIO AND BIAS PARAMETERS		SONIC OR ELECTROMAGNETIC SIGNAL
	AUDIBLE ALARM (BUZZER OR HORN)		ELECTRIC SUPPLY FROM PANELBOARD CKT
	ANNUNCIATOR WINDOW R - ROW # C - COLUMN #		SERVICE AIR
	LAMP INDICATION (STATUS OR ALARM)		INSTRUMENT AIR
	DISCRETE INPUT		
	DISCRETE OUTPUT		
	ANALOG INPUT		
	ANALOG OUTPUT		
	JUMP TAG FROM ONE AREA TO ANOTHER AREA OF DRAWING		
	"g" TAG CONNECT POINT ON EACH DRAWING		
	CONTINUED ON DWG I-X		
	AUTODIALER PRIORITY # PC BASED SOFTWARE		

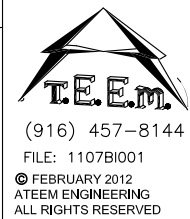
INSTRUMENT IDENTIFICATION LETTERS				
FIRST - LETTER	SUCCEEDING - LETTER			
MEASURED OF INITIATING VARIABLE	MODIFIER	READOUT PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A ANALYSIS		ALARM		
B BURNER, COMBUSTION		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
C CONDUCTIVITY			CONTROLLER	
D DENSITY	DIFFERENTIAL			
E VOLTAGE		SENSOR, PRIMARY ELEMENT		
F FLOW RATE	RATIO (FRACTION)			
G GENERAL		GLASS VIEWING DEVICE		
H HAND				HIGH, OPENED
I CURRENT (ELEC.)		INDICATING, INDICATOR		
J POWER	SCAN			
K TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L LEVEL		LIGHT		LOW, CLOSED
M MOISTURE	MOMENTARY			MIDDLE
N STATUS		STATUS	USER'S CHOICE	USER'S CHOICE
O OPERATOR		ORIFICE, RESTRICTION		
P PRESSURE, VACUUM		POINT (TEST) CONNECTION		
Q QUANTITY	INTERGRATE, TOTALIZE			
R RESET		RECORD		
S SPEED, FREQUENCY	SAFETY		SWITCH	
T TEMPERATURE			TRANSMITTER	TEST
U MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V VIBRATION, MECH. ANALYSIS			VALVE, DAMPER LOUVER	
W WEIGHT, FORCE		WELL		
X SWITCH	X AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y EVENT, STATE OR PRESENCE	Y AXIS		RELAY, COMPUTER, CONVERTOR	
Z POSITION DIMENSION	Z AXIS		DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT	



NUMBERING SEQUENCE	
SEQUENCE NUMBER	DESCRIPTION
00	COMMON ALARM
01-09	INDIVIDUAL ITEMS
10	MECHANICAL
20	MECHANICAL
30	MECHANICAL
40	MECHANICAL
50	LEVEL DEVICES
60	PRESSURE DEVICES
70	FLOW DEVICES
80	ANALYTICAL DEVICES
90	SAFETY & SECURITY DEVICES



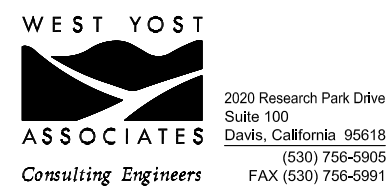
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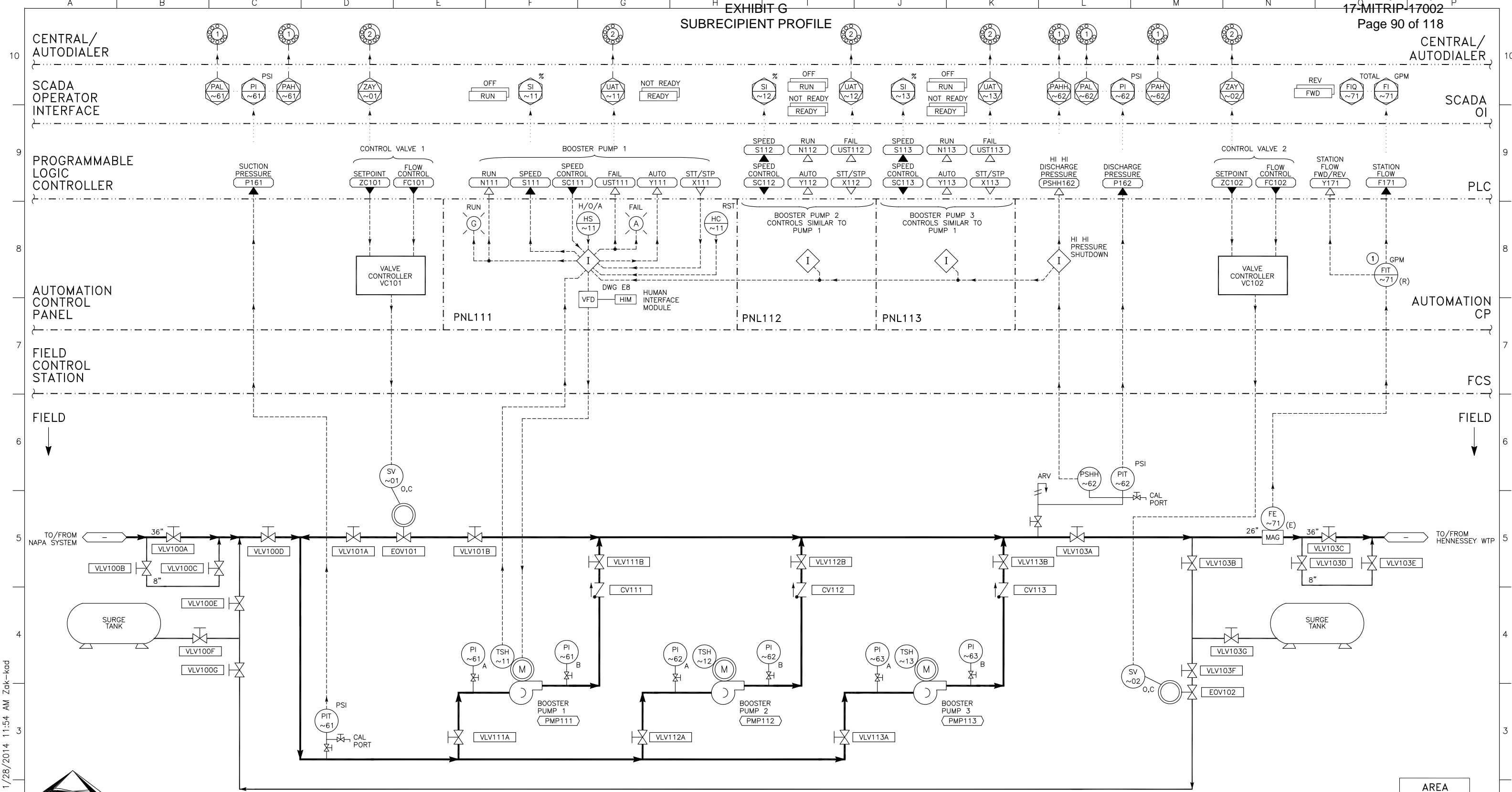


City of Napa
Dwyer Road Pump Station

INSTRUMENTATION SYMBOLS
& ABBREVIATIONS

JOB NUMBER 242-00-11-13
DRAWING NUMBER 11
SHEET NUMBER 49 OF 51
REVISION

EXHIBIT G
SUBRECIPIENT PROFILE



BOOSTER PUMP STATION

NOTES: ① RELOCATE EXISTING FLOW TRANSMITTER TO NEW CONTROL PANEL. COORDINATE WITH THE CITY.

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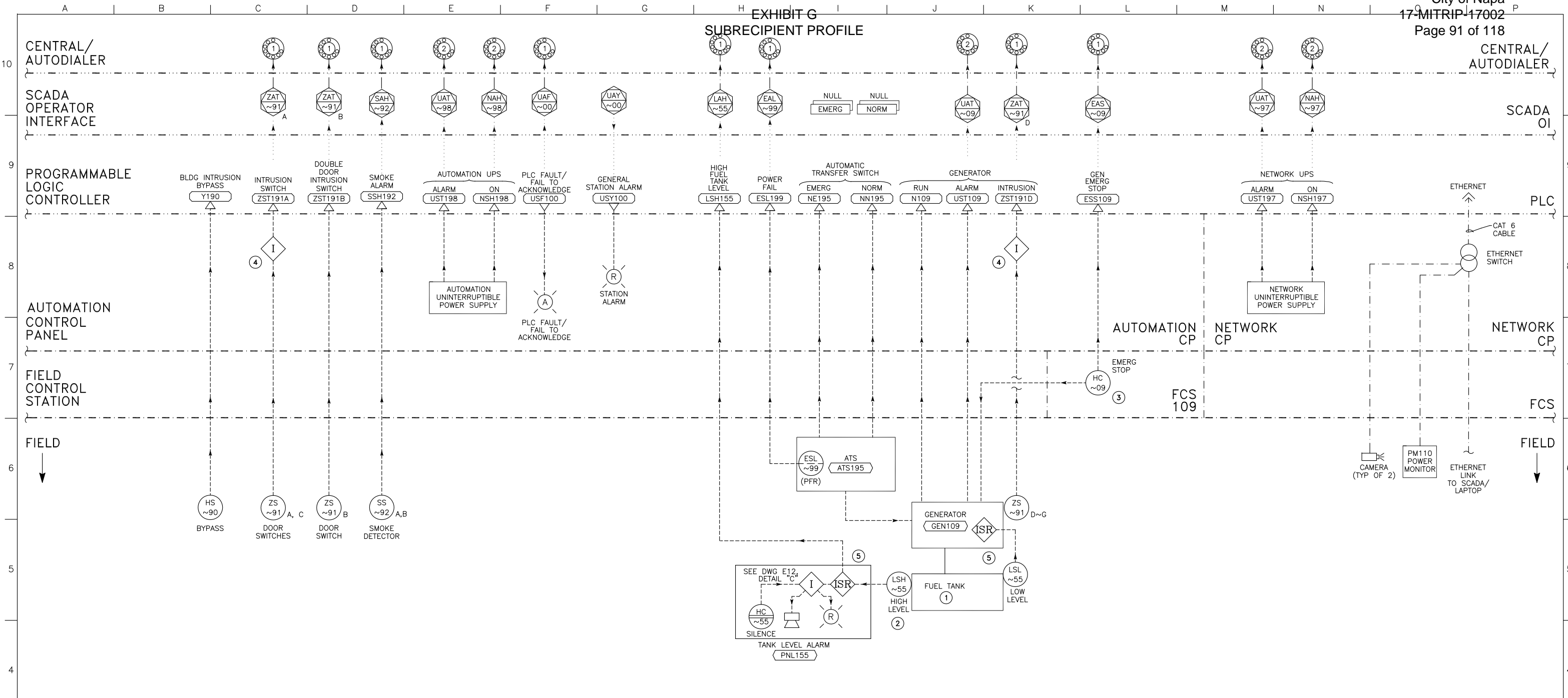
CITY of NAPA

City of Napa
Dwyer Road Pump Station
BOOSTER PUMP STATION P&ID

JOB NUMBER	242-00-11-13
DRAWING NUMBER	12
SHEET NUMBER	50 OF 51
REVISION	

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EXHIBIT G
SUBRECIPIENT PROFILE



AUXILIARY SYSTEMS

- NOTES:
- ① DOUBLE WALLED SUB-BASE FUEL TANK WITH HIGH & LOW LEVEL SWITCHES.
 - ② RED HIGH TANK ALARM LIGHT & AUDIBLE NOTIFICATION AT TANK SHALL OCCUR UPON FUEL LEVEL REACHING 90% CAPACITY.
 - ③ LOCATED INSIDE SWITCHBOARD MMS.
 - ④ WIRE SWITCHES IN SERIES ON TERMINAL BLOCKS.
 - ⑤ PLACE INTRINSIC SAFE RELAYS (ISR) INSIDE PANELS TO ISOLATE SIGNALS.

AREA
PREFIX
1~

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City of Napa
Dwyer Road Pump Station
AUXILIARY SYSTEMS
P&ID

JOB NUMBER 242-00-11-13
DRAWING NUMBER 13
SHEET NUMBER 51 OF 51
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HMGP DR4344 Control 0235 Dwyer Road Pump Station

FEMA Environmental Review and Checklist Additional Information

Physical Characteristics of site:

1. Existing site is flat and has low grasses and minimal vegetation around the current facility. See site photos included in Maps section.

E. Potential Environmental Impact:

See Attached Biological Resources Assessment prepared in 2015. The BRA was prepared to confirm presence or absence of federally-listed species and to ensure compliance with the ESA. The BRA assesses potential effects on biological and wetland resources. The report Appendix A includes detailed plans, aerial base and representative photographs and concludes that no additional surveys are necessary based on the highly disturbed conditions of the area of potential affect (APE.)

18. Noise impacts due to construction will be short-term impacts due to heavy equipment. The pumps will be housed in a concrete block building and do not pose a significant impact to the surrounding area. The train tracks border the eastern edge of the site.

Historic and cultural Characteristics:

10. See attached Cultural Resources Assessment performed in 2014 by David Brunzell or BCR Consulting LLC.

EXHIBIT G
SUBRECIPIENT PROFILE

HMGP DR4344 Control No. 0235
Dwyer Road Pump Station
City of Napa

COST ESTIMATE

#	Item Name	Unit Quantity	Unit of Measure	Unit Cost	Cost Estimate Total
	Division 0 - Design				
1	Design Completion/Update	1	LS	\$ 95,700	\$ 95,700
2	*In-house Labor Engineering & Design	1	LS	\$ 29,300	\$ 29,300
	Subtotal Division 0				\$ 125,000
	Division 1 - General Requirements				
3	Mobilization	1	LS	\$ 234,163	\$ 234,163
4	SWWP plan and BMP's	160	HR	\$ 180	\$ 28,800
	Subtotal Division 1				\$ 262,963
	DIVISION 2 - SITE WORK & DEMOLITION				
5	Pothole	48	HR	\$ 120	\$ 5,760
6	Dewatering to lower groundwater during construction	1	LS	\$ 123,011	\$ 123,011
7	Do not use				
8	Relocate Existing Powerpoles for construction	1	LS	\$ 47,249	\$ 47,249
9	Remove Existing Fencing	20	HR	\$ 150	\$ 3,000
10	Shore easterly side of property line	1200	SF	\$ 137	\$ 164,244
11	Traffic Control	336	HR	\$ 150	\$ 50,400
12	Remove Existing Watermain & Install New Watermain	1056	HR	\$ 150	\$ 158,400
13	Demolish/Remove Existing Pump Station & Site Facilities	1	LS	\$ 132,387	\$ 132,387
14	Excavate for New Pump Station	48	HR	\$ 150	\$ 7,200
15	Backfill New Pump Station	48	HR	\$ 150	\$ 7,200
16	Perimeter 8' high chain link fence w/victory barb wire	309	LF	\$ 72	\$ 22,301
17	New 15' Fence Gates	3	EA	\$ 2,858	\$ 8,573
18	Pipe Bollards - Fixed	12	EA	\$ 1,444	\$ 17,331
19	Pipe Bollards - Removable	4	EA	\$ 1,815	\$ 7,261
20	Patch Pave Dwyer Road after new watermain construction	1100	SF	\$ 15	\$ 16,060
21	New Driveway Paving - 3" over 10"	177	SF	\$ 24	\$ 4,333

EXHIBIT G
SUBRECIPIENT PROFILE

HMGP DR4344 Control No. 0235
Dwyer Road Pump Station
City of Napa

COST ESTIMATE

#	Item Name	Unit Quantity	Unit of Measure	Unit Cost	Cost Estimate Total
	Subtotal Division 2				\$ 774,709
	DIVISION 3 - CONCRETE				
	Pump Station				
22	Layout	8	HR	\$ 150	\$ 1,200
23	Install Slab Gravel/Sand	45	TON	\$ 126	\$ 5,655
24	Install Vapor Barrier	400	SF	\$ 5	\$ 1,872
25	Fine Grade	1430	SF	\$ 8	\$ 11,583
26	Form Footing	701	SF	\$ 69	\$ 48,397
27	Form Wall	2458	SF	\$ 39	\$ 95,518
28	Form Construction Joints	62	SF	\$ 92	\$ 5,699
29	Install PVC Waterstop	250	LF	\$ 41	\$ 10,263
30	Install Expansion Joint	98	LF	\$ 25	\$ 2,448
31	Pour Concrete	116	CY	\$ 515	\$ 59,749
32	Washout	19	EA	\$ 209	\$ 3,964
33	Watercure	54	HR	\$ 150	\$ 8,100
34	Strip/Patch	3221	SF	\$ 10	\$ 33,531
35	JFM/CFM Materials	3221	SF	\$ 9	\$ 30,471
36	Waterblast Joints	250	SF	\$ 10	\$ 2,553
37	Rebar	1	LS	\$ 44,650	\$ 44,650
	Misc. Concrete				
38	Layout	6	HR	\$ 150	\$ 900
39	Install Slab Gravel/Sand	37	TON	\$ 96	\$ 3,539
40	Fine Grade	1014	SF	\$ 4	\$ 4,157
41	Form Footing	386	SF	\$ 39	\$ 15,069
42	Install Expansion Joint	25	LF	\$ 15	\$ 375
43	Pour Concrete	65	CY	\$ 515	\$ 33,480

EXHIBIT G
 SUBRECIPIENT PROFILE

COST ESTIMATE

HMGP DR4344 Control No. 0235
 Dwyer Road Pump Station
 City of Napa

#	Item Name	Unit Quantity	Unit of Measure	Unit Cost	Cost Estimate Total
44	Washout	11	EA	\$ 209	\$ 2,295
45	Watercure	6	HR	\$ 150	\$ 900
46	Strip/Patch	386	SF	\$ 8	\$ 3,246
47	JFM/CRM Materials	386	SF	\$ 7	\$ 2,880
48	Rebar	1	LS	\$ 24,608	\$ 24,608
	Subtotal Division 3				\$ 457,102
	DIVISION 4 - MASONRY				
49	Assist Masonry Sub	40	HR	\$ 150	\$ 6,000
50	Masonry - 8" Split-Face CMU Block	1754	SF	\$ 57	\$ 100,399
	Subtotal Division 4				\$ 106,399
	DIVISION 5 - METALS				
51	Install Grating and Supports	540	SF	\$ 31	\$ 16,648
52	Furnish Grating and Supports	1	LS	\$ 42,205	\$ 42,205
53	Galvanized W12x45 Beams to support Monorail	1	LS	\$ 16,177	\$ 16,177
54	Metal Roof Trusses	1	LS	\$ 97,060	\$ 97,060
55	Metal Roof Decking	1536	SF	\$ 15	\$ 22,395
	Subtotal Division 5				\$ 194,485
	DIVISION 6 - THERMAL & MOISTURE PROTECTION				
56	R-19 Insulation	1200	SF	\$ 4	\$ 4,476
57	Sealants	1	LS	\$ 1,120	\$ 1,120
58	Standing Seam Metal Roof with insulation underlayment	1536	SF	\$ 39	\$ 59,244
59	Pre-finished Metal Soffit	318	SF	\$ 30	\$ 9,495
60	Matching Gutters and Downspouts	95	LF	\$ 55	\$ 5,201
	Subtotal Division 6				\$ 79,536
	DIVISION 7 - DOORS & WINDOWS				

EXHIBIT G
SUBRECIPIENT PROFILE

HMGP DR4344 Control No. 0235
Dwyer Road Pump Station
City of Napa

COST ESTIMATE

#	Item Name	Unit Quantity	Unit of Measure	Unit Cost	Cost Estimate Total
61	Install Large Double Doors	2	EA	\$ 1,644	\$ 3,288
62	Install Single Man Door	1	EA	\$ 1,232	\$ 1,232
63	Install Small Access Door	1	EA	\$ 821	\$ 821
64	Furnish Doors and Hardware	1	LS	\$ 12,444	\$ 12,444
	Subtotal Division 7				\$ 17,784
	DIVISION 8 - FINISHES				
65	Painting	1	LS	\$ 45,996	\$ 45,996
	Subtotal Division 8				\$ 45,996
	DIVISION 9 - SPECIALTIES				
66	Install Warning Signs	6	HR	\$ 165	\$ 990
67	Install Fire Extinguishers	2	EA	\$ 831	\$ 1,662
68	Knox Lock Box	1	EA	\$ 1,244	\$ 1,244
69	Downspout Splashblocks	4	EA	\$ 192	\$ 769
	Subtotal Division 9				\$ 4,666
	DIVISION 10 - EQUIPMENT				
70	Receive and Store Equipment	8	HR	\$ 150	\$ 1,200
71	Install Pumps	3	EA	\$ 8,965	\$ 26,895
72	Furnish Pumps	3	EA	\$ 58,036	\$ 174,107
73	Install Sump Pump	1	EA	\$ 1,010	\$ 1,010
74	Furnish Sump Pump	1	EA	\$ 3,733	\$ 3,733
75	Start-up & Test New Facility	40	HR	\$ 150	\$ 6,000
	Subtotal Division 10				\$ 212,946
	DIVISION 11 - CONVEYING SYSTEMS				
76	Install 2-ton electric hoist and monorail	1	EA	\$ 1,326	\$ 1,321
77	Furnish 2-ton electric hoist and monorail	1	EA	\$ 16,260	\$ 16,200

EXHIBIT G
 SUBRECIPIENT PROFILE

COST ESTIMATE

HMGP DR4344 Control No. 0235
 Dwyer Road Pump Station
 City of Napa

			#	Item Name	Unit Quantity	Unit of Measure	Unit Cost	Cost Estimate Total
				Subtotal Division 11				\$ 17,521
				DIVISION 12 - MECHANICAL				
			78	Receive Pipe Materials	48	HR	\$ 150	\$ 7,200
			79	Layout	24	HR	\$ 150	\$ 3,600
			80	Install PVC <=2.5"	1	LS	\$ 2,725	\$ 2,725
			81	Install PVC >2.5"	1	LS	\$ 3,029	\$ 3,029
			82	Install Threaded/Copper <=2.5"	1	LS	\$ 4,602	\$ 4,602
			83	Install Threaded/Copper >2.5"	1	LS	\$ 3,534	\$ 3,534
			84	Install MJ/FL <8"	1	LS	\$ 1,247	\$ 1,247
			85	Install MJ/FL 8" to 14"	1	LS	\$ 25,161	\$ 25,161
			86	Install MJ/FL >14"	1	LS	\$ 8,153	\$ 8,153
			87	Test Pipe	1	LS	\$ 12,085	\$ 12,085
			88	Disinfect Pipe	12	HR	\$ 150	\$ 1,800
			89	Install 36" Ball Valve	1	EA	\$ 3,303	\$ 3,303
			90	Install 36" Butterfly Valve	4	EA	\$ 1,887	\$ 7,548
			91	Install Butterfly Valves <=12"	13	EA	\$ 1,416	\$ 18,402
			92	Install Check Valves <=12"	3	EA	\$ 944	\$ 2,832
			93	Install 4" Air/Vacuum Valve	1	EA	\$ 707	\$ 707
			94	Install Valve Boxes and Extensions	10	EA	\$ 1,416	\$ 14,156
			95	Install Large Wall Sleeves & Link Seals	2	EA	\$ 2,831	\$ 5,662
			96	Install Medium Wall Sleeves & Link Seals	3	EA	\$ 1,888	\$ 5,664
			97	Install Large Pipe Supports	16	EA	\$ 1,743	\$ 27,896
			98	Install Small Pipe Supports	8	EA	\$ 408	\$ 3,263
			99	Assist Electrician with Instruments	24	HR	\$ 150	\$ 3,600
			100	Furnish Pipe, Ftgs, Valves	1	LS	\$ 978,135	\$ 978,135
			101	Furnish Steel Pipe	1	LS	\$ 88,521	\$ 88,521
			102	Cathodic Protection	1	LS	\$ 18,845	\$ 18,845

EXHIBIT G
SUBRECIPIENT PROFILE

HMGP DR4344 Control No. 0235
Dwyer Road Pump Station
City of Napa

COST ESTIMATE

			#	Item Name	Unit Quantity	Unit of Measure	Unit Cost	Cost Estimate Total
			103	HVAC	1	LS	\$ 2,115	\$ 2,115
				Subtotal Division 12				\$ 1,253,782
				DIVISION 13 - ELECTRICAL				
			104	Electrical Demolition	1	LS	\$ 34,459	\$ 34,459
			105	Temporary Electric Hookups to Maintain Facility	1	LS	\$ 96,485	\$ 96,485
			106	MMS	1	LS	\$ 163,036	\$ 163,036
			107	ATS	1	LS	\$ 107,592	\$ 107,592
			108	MTS	1	LS	\$ 47,554	\$ 47,554
			109	Power Distribution Section	1	LS	\$ 242,933	\$ 242,933
			110	Automation Control Panel	1	LS	\$ 145,435	\$ 145,435
			111	Remote Network Control Panel	1	LS	\$ 29,266	\$ 29,266
			112	VFD Drives	1	LS	\$ 975,437	\$ 975,437
			113	Generator	1	LS	\$ 322,852	\$ 322,852
			114	Generator Termination Panel	1	LS	\$ 71,330	\$ 71,330
			115	Load Bank Termination Panel	1	LS	\$ 19,814	\$ 19,814
			116	Miscellaneous Material	1	LS	\$ 158,326	\$ 158,326
			117	Pressure Instruments	1	LS	\$ 12,881	\$ 12,881
			118	Flow Instruments	1	LS	\$ 31,702	\$ 31,702
			119	Position Devices	1	LS	\$ 2,378	\$ 2,378
			120	Lighting & Receptacles	1	LS	\$ 28,019	\$ 28,019
			121	Conduits & Wires	1	LS	\$ 317,024	\$ 317,024
			122	Telephone Panel	1	LS	\$ 3,963	\$ 3,963
			123	Grounding System	1	LS	\$ 33,684	\$ 33,684
			124	480V-208V Transformer	1	LS	\$ 27,226	\$ 27,226
			125	100A Panelboard	1	LS	\$ 13,870	\$ 13,870
			126	Disconnect Switches	1	LS	\$ 12,096	\$ 12,096
			127	Trenching	1	LS	\$ 19,814	\$ 19,814

EXHIBIT G
 SUBRECIPIENT PROFILE

COST ESTIMATE

HMGP DR4344 Control No. 0235
 Dwyer Road Pump Station
 City of Napa

#	Item Name	Unit Quantity	Unit of Measure	Unit Cost	Cost Estimate Total
128	Pull Boxes	1	LS	\$ 5,378	\$ 5,378
129	Site Lighting	1	LS	\$ 9,926	\$ 9,926
130	Utility Service Charges	1	LS	\$ 18,888	\$ 18,888
	Subtotal Division 13				\$ 2,951,367
	DIVISION 14 - CONSTRUCTION MANAGEMENT				
131	Preconstruction Services	1	LS	\$ 14,234	\$ 14,234
132	Construction Management Services	1	LS	\$ 250,702	\$ 250,702
133	*In-house Labor Engineering Construction and Coordination	1	LS	\$ 90,400	\$ 90,400
134	Mechanical Engineering Inspection Services	1	LS	\$ 34,344	\$ 34,344
135	Electrical Engineering Inspection Services	1	LS	\$ 7,050	\$ 7,050
136	Environmental Compliance & Monitoring Services	1	LS	\$ 7,778	\$ 7,778
137	Post Construction Services	1	LS	\$ 47,926	\$ 47,926
	*In-house Labor Post Construction and Grant Close-out	1	LS	\$ 23,400	\$ 23,400
138	Other Direct Costs	1	LS	\$ 19,910	\$ 19,910
	Subtotal Division 14				\$ 495,744
				Total Project Cost Estimate:	\$ 7,000,000
	*See Spreadsheet "In-house Labor Estimate"				

EXHIBIT G
 SUBRECIPIENT PROFILE
 Units of Measurement

			AC	ACRE
			CF	CUBIC FOOT
			CY	CUBIC YARD
			DAY	DAY
			EA	EACH
			HR	HOUR
			LF	LINEAR FOOT
			LS	LUMP SUM
			MBF	MILLION BOARD FEET
			MI	MILE
			MO	Month
			SEAT	NUMBER OF SEATS
			SF	SQUARE FOOT
			SQ	UNKNOWN
			SY	SQUARE YARD
			SY/IN	SQUARE YARD PER INCH
			TON	TON
			FT	FOOT
			IN	INCH

EXHIBIT G
SUBRECIPIENT PROFILE
In-house Labor Estimate

HMGP DR4344 Control 0235

DESCRIPTION OF WORK:						**Inserted in Cost Estimate Spreadsheet**		
Program Expenses	LABOR	EMPLOYEE NAME	HOURS	HOURLY RATE	TOTAL		CUMULATIVE TOTAL	
	ASSISTANT UTILITIES DIRECTOR	Joy Eldredge	4	\$181.52	\$726.08			
	WATER QUALITY MANAGER	Erin Kebbas	10	\$142.03	\$1,420.30			
	WATER TREATMENT MANAGER	Robert Janowski	10	\$133.38	\$1,333.80			
	SENIOR WT OPERATOR	Gabe Aispuro	5	\$109.65	\$548.25			
	ASSOCIATE ENGINEER	William Ash	80	\$109.97	\$8,797.60			
	SENIOR ENGINEER	Michael Hether	35	\$136.36	\$4,772.60			
	SENIOR ENGINEERING AIDE	Tony Espinoza	3	\$101.05	\$303.15			
	MAINTENANCE SUPERVISOR	Vince Wildeman	25	\$76.82	\$1,920.50			
	PLANT MAINTENANCE MECHANIC II	Cal Itzaina	4	\$91.95	\$367.80			
	PLANT MAINTENANCE ELECTRICIAN III	Robert Sesko	12	\$97.57	\$1,170.84			
	CONTROL SYSTEM SUPERVISOR	David Hight	35	\$119.22	\$4,172.70			
	CONTROL SYSTEM ANALYST	Matthew Simon	12	\$109.30	\$1,311.60			
	CONTROL SYSTEM ANALYST	Kelly Pennington	20	\$109.30	\$2,186.00			
	MANAGEMENT ANALYST II	Sara Gallegos	0	\$107.69	\$0.00			
			LABOR SUB-TOTAL		\$29,031		\$29,031	
	Equipment		HOURS	HOURLY RATE	TOTAL			
	1/2 ton Pickup		12	\$19.56	\$235	\$29,300	\$235	
DESCRIPTION OF WORK:	Construction -Coordination of Shut-downs and operations							
Program Expenses	LABOR	EMPLOYEE NAME	HOURS	HOURLY RATE	TOTAL			
	ASSISTANT UTILITIES DIRECTOR	Joy Eldredge	0.5	\$181.52	\$90.76			
	WATER QUALITY MANAGER	Erin Kebbas	1	\$142.03	\$142.03			
	WATER TREATMENT MANAGER	Robert Janowski	2	\$133.38	\$266.76			
	SENIOR WT OPERATOR	Gabe Aispuro	3	\$109.65	\$328.95			
	ASSOCIATE ENGINEER	William Ash	3	\$109.97	\$329.91			
	SENIOR ENGINEER	Michael Hether	1	\$136.36	\$136.36			
	SENIOR ENGINEERING AIDE	Tony Espinoza	0	\$101.05	\$0.00			
	MAINTENANCE SUPERVISOR	Vince Wildeman	2	\$76.82	\$153.64			
	PLANT MAINTENANCE MECHANIC II	Cal Itzaina	4	\$91.95	\$367.80			
	PLANT MAINTENANCE ELECTRICIAN III	Robert Sesko	2	\$97.57	\$195.14			
	CONTROL SYSTEM SUPERVISOR	David Hight	3	\$119.22	\$357.66			
	CONTROL SYSTEM ANALYST	Matthew Simon	1	\$109.30	\$109.30			
	CONTROL SYSTEM ANALYST	Kelly Pennington	1	\$109.30	\$109.30			
	MANAGEMENT ANALYST II	Sara Gallegos	0	\$107.69	\$0.00			
			LABOR SUB-TOTAL		\$2,587.61		\$31,618.83	
	Equipment		HOURS	HOURLY RATE	TOTAL			
	1/2 ton Pickup		6	\$19.56	\$117.36		\$352.08	
DESCRIPTION OF WORK:	Construction - Engineering Design During Construction							
Program Expenses	LABOR	EMPLOYEE NAME	HOURS	HOURLY RATE	TOTAL			
	ASSISTANT UTILITIES DIRECTOR	Joy Eldredge	0.5	\$181.52	\$90.76			
	WATER QUALITY MANAGER	Erin Kebbas	1	\$142.03	\$142.03			
	WATER TREATMENT MANAGER	Robert Janowski	2	\$133.38	\$266.76			
	SENIOR WT OPERATOR	Gabe Aispuro	3	\$109.65	\$328.95			
	ASSOCIATE ENGINEER	William Ash	3	\$109.97	\$329.91			
	SENIOR ENGINEER	Michael Hether	1	\$136.36	\$136.36			
	SENIOR ENGINEERING AIDE	Tony Espinoza	0	\$101.05	\$0.00			
	MAINTENANCE SUPERVISOR	Vince Wildeman	2	\$76.82	\$153.64			

EXHIBIT G
 SUBRECIPIENT PROFILE
 Labor Rates

HMGP DR 4344 Control No. 0235
 Duver Road Pump Station

Fully Burdened Rate (Salary and Benefits)		
LABOR	HOURLY RATE	OT HOURLY RATE
ASSISTANT UTILITIES DIRECTOR	\$181.52	-
WATER QUALITY MANAGER	\$142.03	-
WATER TREATMENT MANAGER	\$133.38	-
SENIOR WT OPERATOR	\$109.65	\$116.62
ASSOCIATE ENGINEER	\$109.97	-
SENIOR ENGINEER	\$136.36	-
SENIOR ENGINEERING AIDE	\$101.05	\$103.77
PLANT MAINTENANCE SUPERVISOR	\$113.94	\$121.18
PLANT MAINTENANCE MECHANIC II	\$91.95	\$97.79
PLANT MAINTENANCE ELECTRICIAN III	\$97.57	\$103.77
CONTROL SYSTEM SUPERVISOR	\$119.22	-
CONTROL SYSTEM ANALYST	\$109.30	-
CONTROL SYSTEM ANALYST	\$109.30	-
MANAGEMENT ANALYST II	\$107.69	-

EXHIBIT G
SUBRECIPIENT PROFILE
sheet

				DIVISION 6 - THERMAL & MOISTURE PROTECTION									
				R-19 Insulation	1200	SF	\$	4	\$	4,476			
				Sealants	1	LS	\$	1,120	\$	1,120			
				Standing Seam Metal Roof with insulation underlayment	1536	SF	\$	39	\$	59,244			
				Pre-finished Metal Soffit	318	SF	\$	30	\$	9,495			
				Matching Gutters and Downspouts	95	LF	\$	55	\$	5,201			
				Subtotal Division 6					\$	79,536			
				DIVISION 7 - DOORS & WINDOWS									
				Install Large Double Doors	2	EA	\$	1,644	\$	3,288			
				Install Single Man Door	1	EA	\$	1,232	\$	1,232			
				Install Small Access Door	1	EA	\$	821	\$	821			
				Furnish Doors and Hardware	1	LS	\$	12,444	\$	12,444			
				Subtotal Division 7					\$	17,784			
				DIVISION 8 - FINISHES									
				Painting	1	LS	\$	45,996	\$	45,996			
				Subtotal Division 8					\$	45,996			
				DIVISION 9 - SPECIALTIES									
				Install Warning Signs	6	HR	\$	165	\$	990			
				Install Fire Extinguishers	2	EA	\$	831	\$	1,662			
				Knox Lock Box	1	EA	\$	1,244	\$	1,244			
				Downspout Splashblocks	4	EA	\$	192	\$	769			
				Subtotal Division 9					\$	4,666			
				DIVISION 10 - EQUIPMENT									
				Receive and Store Equipment	8	HR	\$	150	\$	1,200			
				Install Pumps	3	EA	\$	8,965	\$	26,895			
				Furnish Pumps	3	EA	\$	58,036	\$	174,107			
				Install Sump Pump	1	EA	\$	1,010	\$	1,010			
				Furnish Sump Pump	1	EA	\$	3,733	\$	3,733			
				Start-up & Test New Facility	40	HR	\$	150	\$	6,000			
				Subtotal Division 10					\$	212,946			
				DIVISION 11 - CONVEYING SYSTEMS									
				Install 2-ton electric hoist and monorail	1	EA	\$	1,326	\$	1,321			
				Furnish 2-ton electric hoist and monorail	1	EA	\$	16,260	\$	16,200			
				Subtotal Division 11					\$	17,521			
				DIVISION 12 - MECHANICAL									
				Receive Pipe Materials	48	HR	\$	150	\$	7,200			
				Layout	24	HR	\$	150	\$	3,600			
				Install PVC <=2.5"	1	LS	\$	2,725	\$	2,725			
				Install PVC >2.5"	1	LS	\$	3,029	\$	3,029			
				Install Threaded/Copper <=2.5"	1	LS	\$	4,602	\$	4,602			

EXHIBIT G
SUBRECIPIENT PROFILE
sheet

			Install Threaded/Copper >2.5"	1	LS	\$ 3,534	\$ 3,534			
			Install MJ/FL <8"	1	LS	\$ 1,247	\$ 1,247			
			Install MJ/FL 8" to 14"	1	LS	\$ 25,161	\$ 25,161			
			Install MJ/FL >14"	1	LS	\$ 8,153	\$ 8,153			
			Test Pipe	1	LS	\$ 12,085	\$ 12,085			
			Disinfect Pipe	12	HR	\$ 150	\$ 1,800			
			Install 36" Ball Valve	1	EA	\$ 3,303	\$ 3,303			
			Install 36" Butterfly Valve	4	EA	\$ 1,887	\$ 7,548			
			Install Butterfly Valves <=12"	13	EA	\$ 1,416	\$ 18,402			
			Install Check Valves <=12"	3	EA	\$ 944	\$ 2,832			
			Install 4" Air/Vacuum Valve	1	EA	\$ 707	\$ 707			
			Install Valve Boxes and Extensions	10	EA	\$ 1,416	\$ 14,156			
			Install Large Wall Sleeves & Link Seals	2	EA	\$ 2,831	\$ 5,662			
			Install Medium Wall Sleeves & Link Seals	3	EA	\$ 1,888	\$ 5,664			
			Install Large Pipe Supports	16	EA	\$ 1,743	\$ 27,896			
			Install Small Pipe Supports	8	EA	\$ 408	\$ 3,263			
			Assist Electrician with Instruments	24	HR	\$ 150	\$ 3,600			
			Furnish Pipe, Ftgs, Valves	1	LS	\$ 978,135	\$ 978,135			
			Furnish Steel Pipe	1	LS	\$ 88,521	\$ 88,521			
			Cathodic Protection	1	LS	\$ 18,845	\$ 18,845			
			HVAC	1	LS	\$ 2,115	\$ 2,115			
			Subtotal Division 12				\$ 1,253,782			
			DIVISION 13 - ELECTRICAL							
			Electrical Demolition	1	LS	\$ 34,459	\$ 34,459			
			Temporary Electric Hookups to Maintain Facility	1	LS	\$ 96,485	\$ 96,485			
			MMS	1	LS	\$ 183,036	\$ 183,036			
			ATS	1	LS	\$ 107,592	\$ 107,592			
			MTS	1	LS	\$ 47,554	\$ 47,554			
			Power Distribution Section	1	LS	\$ 262,933	\$ 262,933			
			Automation Control Panel	1	LS	\$ 145,435	\$ 145,435			
			Remote Network Control Panel	1	LS	\$ 29,266	\$ 29,266			
			VFD Drives	1	LS	\$ 995,437	\$ 995,437			
			Generator	1	LS	\$ 356,652	\$ 356,652			
			Generator Termination Panel	1	LS	\$ 71,330	\$ 71,330			
			Load Bank Termination Panel	1	LS	\$ 19,814	\$ 19,814			
			Miscellaneous Material	1	LS	\$ 178,326	\$ 178,326			
			Pressure Instruments	1	LS	\$ 12,881	\$ 12,881			
			Flow Instruments	1	LS	\$ 31,702	\$ 31,702			
			Position Devices	1	LS	\$ 2,378	\$ 2,378			
			Lighting & Receptacles	1	LS	\$ 28,019	\$ 28,019			
			Conduits & Wires	1	LS	\$ 317,024	\$ 317,024			
			Telephone Panel	1	LS	\$ 3,963	\$ 3,963			
			Grounding System	1	LS	\$ 33,684	\$ 33,684			

EXHIBIT G
SUBRECIPIENT PROFILE
sheet

				480V-208V Transformer	1	LS	\$ 27,226	\$ 27,226				
				100A Panelboard	1	LS	\$ 13,870	\$ 13,870				
				Disconnect Switches	1	LS	\$ 12,096	\$ 12,096				
				Trenching	1	LS	\$ 19,814	\$ 19,814				
				Pull Boxes	1	LS	\$ 5,378	\$ 5,378				
				Site Lighting	1	LS	\$ 9,926	\$ 9,926				
				Utility Service Charges	1	LS	\$ 18,888	\$ 18,888				
				Subtotal Division 13				\$ 3,065,167				
				DIVISION 14 - CONSTRUCTION MANAGEMENT								
				Preconstruction Services	1	LS	\$ 14,234	\$ 14,234				
				Construction Management Services	1	LS	\$ 250,702	\$ 250,702				
				Mechanical Engineering Inspection Services	1	LS	\$ 34,344	\$ 34,344				
				Electrical Engineering Inspection Services	1	LS	\$ 7,050	\$ 7,050				
				Environmental Compliance & Monitoring Services	1	LS	\$ 7,778	\$ 7,778				
				Post Construction Services	1	LS	\$ 47,926	\$ 47,926				
				Other Direct Costs	1	LS	\$ 19,910	\$ 19,910				
				Subtotal Division 14				\$ 381,944				
							Total Project Cost Estimate:	\$ 7,000,000				

13 Sep 2018

Project: **Dwyer Road Pump Station**Total Benefits: **\$11,012,954**Total Costs: **\$7,690,037**BCR: **1.43**

Project Number: DR-4344-0235

Disaster #: DR-4344

Program: HMGP

Agency: **City of Napa**State: **California**

Point of Contact: Joy Eldredge

Analyst: Bill Ash

Project Summary:

Project Number: DR-4344-0235

Disaster #: DR-4344

Program: HMGP

Agency: City of Napa

Analyst: Bill Ash

Discount Rate: 0.070

Point of Contact: Joy Eldredge

Phone Number: 707-257-9319

Address: 1340 Clay Street, Napa, California, 94559

Email: jeldredge@cityofnapa.org

Comments:

Structure Summary For:

Dwyer Road Pump Station, Dwyer Road JWO of Hwy 29, Napa, California, 94558, Napa

Structure Type: Building

Historic Building: No

Contact: Joy Eldredge

Benefits: \$11,012,954

Costs: \$7,690,037

BCR: 1.43

Mitigation	Hazard	BCR	Benefits	Costs
Anchor/Brace non-structural	Damage-Frequency Assessment	1.43	\$11,012,954	\$7,690,037

EXHIBIT G

SUBRECIPIENT PROFILE

13 Sep 2018

Project: **Dwyer Road Pump Station**

Total Benefits: **\$11,012,954**

Total Costs: **\$7,690,037**

BCR: **1.43**

Project Number: DR-4344-0235

Disaster #: DR-4344

Program: HMGP

Agency: **City of Napa**

State: **California**

Point of Contact: Joy Eldredge

Analyst: Bill Ash

Structure and Mitigation Details For: Dwyer Road Pump Station, Dwyer Road JWO of Hwy 29, Napa, California, 94558, Napa

Benefits: \$11,012,954

Costs: \$7,690,037

BCR: 1.43

Hazard: **Damage-Frequency Assessment - Earthquake**

Mitigation Option: Anchor/Brace non-structural

Latitude:

Longitude:

Project Useful Life: 50

Mitigation Information

Basis of Damages: Historical Damages

Number of Estimated Damage Events: 1

Number of Events with Know Recurrence Intervals: 1

Utilities

Type of Service: Potable Water

Other:

Number of Customers: Served: 11,400

Value per Unit of Service: 105.00

Total Value of Service per Day: \$1,197,000

Facility Description:

Dwyer Road potable water pump station

EXHIBIT G

SUBRECIPIENT PROFILE

13 Sep 2018

Project: **Dwyer Road Pump Station**

Total Benefits: **\$11,012,954**

Total Costs: **\$7,690,037**

BCR: **1.43**

Project Number: DR-4344-0235

Disaster #: DR-4344

Program: HMGP

Agency: **City of Napa**

State: **California**

Point of Contact: Joy Eldredge

Analyst: Bill Ash

Historic Damages Before and After Mitigation

Analysis Year: 2018

Analysis Duration: 0

Utilities (\$/day): \$1,197,000.00

Year Built:

User Input Analysis Duration:

Buildings (\$/day):

Roads/Bridges (\$/day):

Damages Before Mitigation

Damage Year: 2014

RI: 30.00

Are Damages In Current Dollars? No

Buildings (Days):

Utilities (Days): 21.0

Roads (Days):

Total	\$25,137,000
Total Inflated	\$25,137,000

Damages After Mitigation

RI: 30.00

Are Damages In Current Dollars? Yes

Buildings (Days):

Utilities (Days): 1.0

Roads (Days):

Total	\$1,197,000

Volunteers Cost

Number of Volunteers Required:

Cost of Volunteers Time (\$/Hour/Person):

Per-Person Cost of Lodging for a Volunteer:

Number of Hours Volunteered/Person:

Number of Days Lodging/Volunteer:

Cost of Volunteers:

Social Benefits

Mental Stress and Anxiety

Number of Person:

Treatment Costs per person: \$2,443.00

Total Mental Stress and Anxiety Cost: \$0.00

Lost Productivity

Number of Worker:

Productivity Loss per person: \$8,736.00

Total Lost Productivity Cost: \$0.00

BCR Calculation Results

EXHIBIT G

SUBRECIPIENT PROFILE

13 Sep 2018

Project: **Dwyer Road Pump Station**

Total Benefits: **\$11,012,954**

Total Costs: **\$7,690,037**

BCR: **1.43**

Project Number: DR-4344-0235

Disaster #: DR-4344

Program: HMGP

Agency: **City of Napa**

State: **California**

Point of Contact: Joy Eldredge

Analyst: Bill Ash

Expected Annual Damages Before Mitigation

Expected Annual Damages After Mitigation

Expected Avoided Damages After Mitigation (Benefits)

Annual: \$837,897	Annual: \$39,900	Annual: \$797,997
Present Value: \$11,563,604	Present Value: \$550,650	Present Value: \$11,012,954

Mitigation Benefits: \$11,012,954

Mitigation Costs: \$7,690,037

Benefits Minus Costs: \$3,322,917

Benefit-Cost Ratio: 1.43

Cost Estimate

Project Useful Life (years):	50	Construction Type:	
Mitigation Project Cost:	\$7,000,000	Detailed Scope of Work:	Yes
Annual Project Maintenance Cost:	\$50,000	Detailed Estimate for Entire Project:	Yes
Final Mitigation Project Cost:	\$7,690,037	Years of Maintenance:	50
Cost Basis Year:		Present Worth of Annual Maintenance Costs:	\$690,037
Construction Start Year:		Estimate Reflects Current Prices:	Yes
Construction End Year:		Project Escalation:	

Justification/Attachments

EXHIBIT G

SUBRECIPIENT PROFILE

13 Sep 2018

Project: **Dwyer Road Pump Station**Total Benefits: **\$11,012,954**Total Costs: **\$7,690,037**BCR: **1.43**

Project Number: DR-4344-0235

Disaster #: DR-4344

Program: HMGP

Agency: **City of Napa**State: **California**

Point of Contact: Joy Eldredge

Analyst: Bill Ash

Field	Description	Attachments
Historic damages before mitigation	Potable water currently flows north via gravity at low pressures insufficient to reach the existing storage tank at the north end of the system. The cities of Calistoga and St. Helena require additional pump stations to serve their customers.	
Number of Customers Served	Population of the cities of St. Helena and Calistoga combined is about 11,400.	
Project useful life	Industry accepted useful life for a potable water pump station.	
Unknown Frequency - Damages after Mitigation	Provide redundancy and resiliency to water system by increasing up-valley water pressures with one pump station by enabling the City of Napa to fill the northern most storage tank in the system.	

EXHIBIT G
SUBRECIPIENT PROFILE
Schedule

HMGP Item 7. Project Schedule			
DR 4344 - Control No. 0235			
Dwyer Road Pump Station			
12/15/2020			
	Description	Timeframe	Comments
Pre-Construction			
	Finalize Design	3 months	Based on Start Date of 3/1/2021
	Issue Bids for General Contractor	1 month	
	Pre-Bid Site Meeting	1 day	Mandatory
	BIDS DUE	1 month	
	Award Contract	2 months	
	Notice To Proceed	1 month	
Construction			
	Demolition of the existing station and structure.	1 month	
	Reconfigure piping and associated valves and cathodic protection.	1 month	
	First Shutdown for tie-ins.	2 days	48-hr window within Oct 5 to Oct 23, 2021
	Grading and Backfilling Site	1 month	
	Construct Foundation and Structure	3 months	
	Second Shutdown for tie-ins.	2 days	48-hr window within Jan 25 to Feb 5, 2022, after which Conn Line flow will be through 12" bypass only.
	Install Pumps and Associated Valves and Cathodic Protection	3 months	
	Install SCADA Instrumentation, and Electrical	2 months	
	Start-up, Testing, and Prove-out	1 month	

EXHIBIT G
SUBRECIPIENT PROFILE
Schedule

	Conn Line back in service.	0 days	Conn Line flow through new 30" line. Needed for system demand increase April through October.
	Site Restoration	2 weeks	
	Complete Punch list	2 months	
	Demobilization	2 weeks	
Post-Construction			
	Project Close-out and as-built drawings	2 weeks	
	Grant Close-out	3 months	standard 3 months
	Total Months:	26 months	

EXHIBIT G
SUBRECIPIENT PROFILE
old

DR 4344; Control No. 0235				Start Date	3/1/2019				
Dwyer Pump Station Project Schedule					Calendar Days				
6/25/2018				200	Workdays				Holidays
	Description	Timeframe	Comments			Date	Calendar Days	Working Days	5/27/2019
Pre-Construction						Pre-Construction			
	Finalize Design	3 months	Based on Start Date of 3/1/2019			5/15/2019	###		7/4/2019
	Issue Bids for General Contractor	1 month				5/22/2019	7		9/2/2019
	Pre-Bid Site Meeting	1 day	Mandatory			6/11/2019	20		11/11/2019
	BIDS DUE	1 month				7/7/2019	10		11/29/2019
	Award Contract	2 months				8/7/2019	3		12/25/2019
	Notice To Proceed	1 month		10/5/1900		8/18/2019	1		1/1/2020
Construction						Construction			
	Demolition of the existing station and structure.	1 month				8/31/2019	10	8	5/25/2020
	Reconfigure piping and associated valves and cathodic protection.	1 month				10/5/2019	35	24	7/3/2020
	First Shutdown for tie-ins.	2 days	48-hr window within Oct 5 to Oct 23, 2019			10/5/2019	0	0	9/7/2020
	Grading and Backfilling Site	1 month				10/18/2019	13	10	
	Construct Foundation and Structure	3 months				1/25/2020	99	63	
	Second Shutdown for tie-ins.	2 days	48-hr window within Jan 25 to Feb 5, 2020, after which Conn Line flow will be through 12" bypass only.			1/25/2020	0	0	
	Install Pumps and Associated Valves and Cathodic Protection	3 months				4/20/2020	86	60	
	Install SCADA Instrumentation, and Electrical	2 months				6/22/2020	63	45	
	Start-up, Testing, and Prove-out	1 month				7/27/2020	35	25	
	Conn Line back in service.	0 days	Conn Line flow through new 30" line.			7/28/2020	1	2	
	Site Restoration	2 weeks				8/8/2020	11	9	
	Complete Punch list	2 months				9/21/2020	44	30	
	Demobilization	2 weeks				10/1/2020	10	9	
Post-Construction						Post-Construction			
	Project Close-out and as-built drawings	2 weeks				10/11/2020	10		
	Grant Close-out	3 months	standard 3 months			1/11/2021	90		
		26 months				TOTAL Days	462	288	

SCO ID:

STATE OF CALIFORNIA - DEPARTMENT OF GENERAL SERVICES

STANDARD AGREEMENT

STD 213 (Rev. 04/2020)

AGREEMENT NUMBER 17-MITRIP-17002	PURCHASING AUTHORITY NUMBER (if Applicable)
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1. This Agreement is entered into between the Contracting Agency and the Contractor named below:

CONTRACTING AGENCY NAME

DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT

CONTRACTOR NAME

City of Napa

2. The term of this Agreement is:

START DATE

Upon HCD Approval

THROUGH END DATE

02/28/2026

3. The maximum amount of this Agreement is:

\$ 567,125.00

4. The parties agree to comply with the terms and conditions of the following exhibits, which are by this reference made a part of the Agreement.

Exhibits	Title	Pages
Exhibit A	Authority, Purpose and Scope of Work	8
Exhibit B	Budget Detail and Payment Provisions	6
Exhibit C *	State of California General Terms and Conditions	GTC 4/17
+ -	Exhibit D CDBG-DR and CDBG-MIT Terms and Conditions	33
+ -	Exhibit E Special Terms and Conditions	3
+ -	Exhibit F Notice to Proceed	4
+ -	Exhibit G Subrecipient Profile	118

Items shown with an asterisk (*), are hereby incorporated by reference and made part of this agreement as if attached hereto.

These documents can be viewed at <https://www.dgs.ca.gov/OLS/Resources>

IN WITNESS WHEREOF, THIS AGREEMENT HAS BEEN EXECUTED BY THE PARTIES HERETO.

CONTRACTOR

CONTRACTOR NAME (if other than an individual, state whether a corporation, partnership, etc.)

City of Napa

CONTRACTOR BUSINESS ADDRESS

P O BOX 660

CITY

Napa

STATE

CA

ZIP

94559

PRINTED NAME OF PERSON SIGNING

Phil Brun

TITLE

Utilities Director

CONTRACTOR AUTHORIZED SIGNATURE

DATE SIGNED

2/28/2022

SCO ID:

STATE OF CALIFORNIA - DEPARTMENT OF GENERAL SERVICES

STANDARD AGREEMENT

STD 213 (Rev. 04/2020)

AGREEMENT NUMBER 17-MITRIP-17002	PURCHASING AUTHORITY NUMBER (If Applicable)
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STATE OF CALIFORNIA

CONTRACTING AGENCY NAME

Department of Housing and Community Development

CONTRACTING AGENCY ADDRESS

2020 W. El Camino Ave, Suite 130

CITY

Sacramento

STATE

CA

ZIP

95833

PRINTED NAME OF PERSON SIGNING

~~Sham Singh~~ Michael White

TITLE

Contract Manager, Business & Contracts Branch

CONTRACTING AGENCY AUTHORIZED SIGNATURE

Michael White

DATE SIGNED

3/18/2022

CALIFORNIA DEPARTMENT OF GENERAL SERVICES APPROVAL

EXEMPTION (If Applicable)

"California Department of General Services Exempt per; SCM Vol. 14.04.A.3 (DGS memo dated 6/12/1981)"