City Council
AGENDA

Tuesday, July 16, 2024, 5:30 p.m.

Council Chambers, 990 Palm Street, San Luis Obispo

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INSTRUCTIONS FOR PUBLIC COMMENT:

Public Comment prior to the meeting (must be received 3 hours in advance of the meeting):

Mail - Delivered by the U.S. Postal Service. Address letters to the City Clerk's Office at 990 Palm Street, San Luis Obispo, California, 93401.

Email - Submit Public Comments via email to emailcouncil@slocity.org. In the body of your email, please include the date of the meeting and the item number (if applicable). Emails *will not* be read aloud during the meeting.

Voicemail - Call (805) 781-7164 and leave a voicemail. Please state and spell your name, the agenda item number you are calling about, and leave your comment. Verbal comments must be limited to 3 minutes. Voicemails *will not* be played during the meeting.

**All correspondence will be archived and distributed to councilmembers, however, submissions received after the deadline may not be processed until the following day.*

Public Comment during the meeting:

Meetings are held in-person. To provide public comment during the meeting, you must be present at the meeting location.

Electronic Visual Aid Presentation. To conform with the City's Network Access and Use Policy, Chapter 1.3.8 of the Council Policies & Procedures Manual, members of the public who desire to utilize electronic visual aids to supplement their oral presentation must provide display-ready material to the City Clerk by 12:00 p.m. on the day of the meeting. Contact the City Clerk's Office at cityclerk@slocity.org or (805) 781-7114.

Pages

1. CLOSED SESSION (4:00 - 5:30 PM)

1.a CALL TO ORDER

Mayor Erica A. Stewart will call the Closed Session Meeting of the San Luis Obispo City Council to order at 5:00 p.m. in the Council Hearing Room at City Hall, 990 Palm Street, San Luis Obispo.

1.b PUBLIC COMMENT FOR CLOSED SESSION ITEMS ONLY

Public Comment will only be accepted for items listed on the Closed Session agenda.

1.c PUBLIC EMPLOYEE DISCIPLINE / DISMISSAL / RELEASE

Pursuant to Government Code Sec. 54957 (b)(1)

1.d CONFERENCE WITH REAL PROPERTY NEGOTIATORS

Pursuant to Government Code §54956.8

Property: APN 002-482-007

Agency Negotiators:
Whitney McDonald, Christine Dietrick, Greg Hermann, Markie Kersten, Matt Horn, Brian Nelson, Shelsie Moore, Noah Maidrand

Negotiating Parties:
Hayes Scott and Linday Family Trust

Under Negotiation:
Price and terms of payment

Property: APN 002-482-013

Agency Negotiators:
Whitney McDonald, Christine Dietrick, Greg Hermann, Markie Kersten, Matt Horn, Brian Nelson, Shelsie Moore, Noah Maidrand

Negotiating Parties:
Iron Door LLC

Under Negotiation:

Price and terms of payment

Property: APN 002-482-015; 002-482-023

Agency Negotiators:

Whitney McDonald, Christine Dietrick, Greg Hermann, Markie Kersten, Matt Horn, Brian Nelson, Shelsie Moore, Noah Maidrand

Negotiating Parties:

SLO Creek LLC

Under Negotiation:

Price and terms of payment

Property: APN 002-482-021

Agency Negotiators:

Whitney McDonald, Christine Dietrick, Greg Hermann, Markie Kersten, Matt Horn, Brian Nelson, Shelsie Moore, Noah Maidrand

Negotiating Parties:

Patricia B McNamara Survivor’s Trust

Under Negotiation:

Price and terms of payment

Property: APN 003-711-024

Agency Negotiators:

Whitney McDonald, Christine Dietrick, Greg Hermann, Markie Kersten, Matt Horn, Brian Nelson, Shelsie Moore, Noah Maidrand

Negotiating Parties:

Evergreen Windsor Mhp LLC A Ca LLC

Under Negotiation:

Price and terms of payment

1.e ADJOURNMENT

The City Council will hold a Regular Meeting on July 16, 2024 at 5:30 p.m. in the Council Chambers at City Hall, 990 Palm Street, San Luis Obispo.

2. CALL TO ORDER

Mayor Erica A. Stewart will call the Regular Meeting of the San Luis Obispo City Council to order.

3. PLEDGE OF ALLEGIANCE

Council Member Jan Marx will lead the Council in the Pledge of Allegiance.

4. PRESENTATIONS

4.a CITY MANAGER REPORT

Receive a brief report from Interim City Manager Whitney McDonald.

5. PUBLIC COMMENT PERIOD FOR ITEMS NOT ON THE AGENDA

Not to exceed 15 minutes. The Council welcomes your input. State law does not allow the Council to discuss or take action on issues not on the agenda, except that members of the Council or staff may briefly respond to statements made or questions posed by persons exercising their public testimony rights (Gov. Code sec. 54954.2). Staff may be asked to follow up on such items.

6. CONSENT AGENDA

Not to exceed 15 minutes. Matters appearing on the Consent Calendar are expected to be non-controversial and will be acted upon at one time. A member of the public may request the Council to pull an item for discussion. Pulled items shall be heard at the close of the Consent Agenda unless a majority of the Council chooses another time. The public may comment on any and all items on the Consent Agenda within the three-minute time limit.

Recommendation:
To approve Consent Calendar Items 6a to 6f.

6.a WAIVE READING IN FULL OF ALL RESOLUTIONS AND ORDINANCES

Recommendation:

Waive reading of all resolutions and ordinances as appropriate.

6.b MINUTES REVIEW - JUNE 24, 2024, JUNE 25, 2024, JUNE 26, 2024 AND JULY 2, 2024 COUNCIL MINUTES

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Recommendation:

Approve the following minutes of the City Council:

- June 24, 2024 - Special Closed Session
- June 25, 2024 - Special Closed Session
- June 26, 2024 - Special Closed Session
- July 2, 2024 - Regular Meeting

6.c AUTHORIZATION TO ADVERTISE THE WATER TREATMENT PLANT OZONE CONTAINMENT IMPROVEMENT PROJECT, SPECIFICATION 2001026

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Recommendation:

1. Approve the project plans and special provisions for the Water Treatment Plant Ozone Containment Improvement Project, Specification Number 2001026; and
2. Authorize staff to advertise for bids; and
3. Authorize the City Manager to award the construction contract for the bid total if the lowest responsible bid is within the available budget for the Water Treatment Plant Major Equipment Maintenance Project; and
4. Authorize the City Engineer to approve Contract Change Orders up to the available project budget; and
   Find the Project categorically exempt from the California Environmental Quality Act pursuant to State CEQA Guidelines Section 15301 and 15303.

Recommendation:

1. Approve the project plans and special provisions for the Mid-Higuera Bypass, Specification Number 2090649; and,

2. Authorize staff to advertise for bids; and,

3. Authorize the City Manager to award the construction contract pursuant to Section 3.24.190 of the Municipal Code for the bid total, if the lowest responsible bid is within the Engineer's Estimate of $9,400,000; and,

4. Authorize the City Engineer to approve Contract Change Orders up to available project budget and up to any amended budget subsequently approved by the City Manager up to $200,000; and,

5. Appropriate $225,000 in Zone 9 County funding to the project, as recommended by the Zone 9 Advisory Committee and adopted in the County FY24/25 budget; and,

6. Adopt a Draft Resolution entitled, "A Resolution of the City Council of the City of San Luis Obispo, California, authorizing appropriation of Capital Projects Reserve Funds to support the Mid-Higuera Bypass, Specification Number 2090649" to authorize the following:

    a. Authorize the Finance Director to appropriate up to $1,000,000 of LRM funds from the Capital Reserve of the Capital Outlay Fund to Mid-Higuera Bypass (Account 2090649) upon award of the construction contract; and,

    b. Authorize the Finance Director to transfer up to $1,000,000 of LRM funds from Roadway Sealing 2024, Project Account 2000615 to Mid-Higuera Bypass (Account 2090649) upon award of the construction contract; and

7. Authorize the City Manager to execute cost sharing agreements, utility relocation agreements, service fee agreements including payment of services with SoCal Gas, PG&E, and Telecom Services within available project budget; and

8. Authorize the Mayor to execute Public Utility Distribution Easement Agreements with PG&E in a final form satisfactory to the City Attorney.

6.e CONSIDERATION OF THE 2024-25 HUMAN SERVICES GRANT NEW FUNDING RECOMMENDATIONS 293

Recommendation:

1. As recommended by the Human Relations Commission, approve the 2024-25 Human Services Grant funding allocations in the amount of $150,000 based on City Council's direction provided May 21, 2024; and

2. Authorize the City Manager to execute agreements with each grant recipient.

6.f APPROVE PARTICIPATION IN NATIONAL OPIOID LITIGATION SETTLEMENT AGREEMENT WITH KROGER CO.

Recommendation:

1. Approve City participation in the nationally negotiated opioid related settlement agreements with supermarket pharmacy Kroger Co. (“Kroger”); and

2. Authorize the City Manager and City Attorney to execute documents as needed to participate in the settlement agreement; and

3. Authorize the City Manager and City Attorney to elect disposition of Kroger settlement funds (deferral of settlement funds to the County or direct allocation to the City); and

4. Direct the City Manager and City Attorney to conduct an evaluation of the aggregate national opioid litigation settlement amounts and administrative burdens of direct allocation, and, if warranted, authorize the City Manager to change the distribution election for all settlements, with notification the Council.

7. PUBLIC HEARING AND BUSINESS ITEMS

7.a INTRODUCE AN ORDINANCE TO AMEND TITLE 10 OF THE MUNICIPAL CODE AND ADOPT A RESOLUTION MODIFYING THE DANA STREET PARKING DISTRICT (Estimated Time: 60 minutes) 327

Recommendation:

1. Introduce an Ordinance entitled, “An Ordinance of the City Council of the City of San Luis Obispo, California, amending Municipal Code Title 10 Chapter 36 regarding Stopping, Standing and Parking for Certain Purposes or in Certain Places” to remove exceptions for the Dana Street Residential Parking District; and

2. Adopt a Draft Resolution entitled, “A Resolution of the City Council of the City of San Luis Obispo, California, modifying the Preferential Parking Permit District for the Dana Street Area of the City, authorizing the Public Works Director to make temporary modifications to the Dana Street Parking District” until the completion of construction of the Cultural Arts District Parking Structure including, but not limited to, adjusting the district boundaries, the eligible properties within the boundary, the number of permits issued to those properties, and imposing or modifying hours-of-use restrictions.

8. STUDY SESSION

8.a SLO TRANSIT SHORT-RANGE TRANSIT PLAN UPDATE STUDY SESSION (Estimated Time: 120 minutes) 359

Recommendation:

Receive a presentation on the progress of SLO Transit’s Short-Range Transit Plan update, including service alternatives analysis, provide direction regarding which service alternatives to incorporate into the plan update, and provide direction to staff to return in fall 2024 with a draft plan for Council’s review.

9. LIAISON REPORTS AND COMMUNICATIONS

Not to exceed 15 minutes. Council Members report on conferences or other City activities. At this time, any Council Member or the City Manager may ask a question for clarification, make an announcement, or report briefly on their activities. In addition, subject to Council Policies and Procedures, they may provide a reference to staff or other resources for factual information, request staff to report back to the Council at a subsequent meeting concerning any matter or take action to direct staff to place a matter of business on a future agenda. (Gov. Code Sec. 54954.2)

10. ADJOURNMENT

The next Regular Meeting of the City Council will be held on **August 20, 2024 at 5:30 p.m. in the Council Chambers** at City Hall, 990 Palm Street, San Luis Obispo. The Regular Meeting on August 6, 2024 will be cancelled, as approved by Council on November 14, 2023 during their annual review of the 2024 meeting calendar.

LISTENING ASSISTIVE DEVICES for the hearing impaired - see the Clerk.

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City Council meetings are televised live on Charter Channel 20 and the City's YouTube Channel: www.youtube.com/CityofSanLuisObispo. Agenda related writings or documents provided to the City Council are available for public inspection in the City Clerk's Office located at 990 Palm Street, San Luis Obispo, California during normal business hours, and on the City's website https://www.slocity.org/government/mayor-and-city-council/agendas-and-minutes. Persons with questions concerning any agenda item may call the City Clerk's Office at (805) 781-7114.

Council Minutes

June 24, 2024, 5:30 p.m.
City Hall, 990 Palm Street, San Luis Obispo

Council Members Present:	Council Member Emily Francis, Council Member Jan Marx, Council Member Michelle Shoresman, Mayor Erica A. Stewart
Council Members Absent:	Vice Mayor Andy Pease
City Staff Present:	David Fleishman, Contract City Attorney, and Teresa Purrington, City Clerk

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1. CALL TO ORDER

A Special Closed Session Meeting of the San Luis Obispo City Council was called to order on June 24, 2024 at 5:30 p.m. in Conference Room 6 at City Hall, 990 Palm Street, San Luis Obispo, by Mayor Stewart.

2. PUBLIC COMMENT FOR ITEMS ON THE AGENDA ONLY

Public Comment:
None

--End of Public Comment--

3. PUBLIC EMPLOYEE DISCIPLINE / DISMISSAL / RELEASE

ACTION: Contract City Attorney David Fleishman indicated the Council met in Closed session and there was no reportable action taken.

4. ADJOURNMENT

The meeting was adjourned at 7:05 p.m. The next Regular Meeting of the City Council will be held on July 2, 2024 at 5:30 p.m. in the Council Chambers at City Hall, 990 Palm Street, San Luis Obispo.

APPROVED BY COUNCIL: XX/XX/2024

Council Minutes

June 25, 2024, 11:45 a.m.
City Hall, 990 Palm Street, San Luis Obispo

Council Members Present:	Council Member Emily Francis, Council Member Jan Marx, Council Member Michelle Shoresman, Vice Mayor Andy Pease, Mayor Erica A. Stewart
City Staff Present:	Christine Dietrick, City Attorney, Nickole Domini, Human Resources Director, Teresa Purrington, City Clerk

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1. CALL TO ORDER

A Special Closed Session Meeting of the San Luis Obispo City Council was called to order on June 25, 2024 at 11:45 a.m. in the in Finance & IT (FIT) Conference Room in City Hall, 990 Palm Street, San Luis Obispo, by Mayor Stewart, with all members present.

2. PUBLIC COMMENT FOR ITEMS ON THE AGENDA ONLY

Public Comment:
None

--End of Public Comment--

3. PUBLIC EMPLOYEE APPOINTMENT

3.a CONFERENCE WITH LABOR NEGOTIATORS

ACTION: City Attorney Christine Dietrick indicated the Council met in Closed Session and there was no reportable action taken.

4. ADJOURNMENT

The meeting was adjourned at 5:20 p.m. The next Regular Meeting of the City Council will be held on July 2, 2024 at 5:30 p.m. in the Council Chambers at City Hall, 990 Palm Street, San Luis Obispo.

APPROVED BY COUNCIL: XX/XX/2024

Council Minutes

June 26, 2024, 12:30 p.m.
City Hall, 990 Palm Street, San Luis Obispo

Council Members Present:	Council Member Emily Francis, Council Member Jan Marx, Council Member Michelle Shoresman, Vice Mayor Andy Pease, Mayor Erica A. Stewart
City Staff Present:	Christine Dietrick, City Attorney, Nickole Domini, Human Resources Director, and Teresa Purrington, City Clerk

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1. CALL TO ORDER

A Special Closed Session Meeting of the San Luis Obispo City Council was called to order on June 26, 2024 at 12:40 p.m. in the Finance & IT (FIT) Conference Room in City Hall, 990 Palm Street, San Luis Obispo, by Mayor Stewart.

2. PUBLIC COMMENT FOR ITEMS ON THE AGENDA ONLY

Public Comment:
None

--End of Public Comment--

3. PUBLIC EMPLOYEE APPOINTMENT

3.a CONFERENCE WITH LABOR NEGOTIATORS

ACTION: City Attorney Christine Dietrick indicated the Council met in Closed Session and there was no reportable action taken.

4. ADJOURNMENT

The meeting was adjourned at 5:46 p.m. The next Regular Meeting of the City Council will be held on July 2, 2024 at 5:30 p.m. in the Council Chambers at City Hall, 990 Palm Street, San Luis Obispo.

APPROVED BY COUNCIL: XX/XX/2024

Council Minutes

July 2, 2024, 5:30 p.m.
City Hall, 990 Palm Street, San Luis Obispo

Council Members Present:	Council Member Emily Francis, Council Member Michelle Shoresman, Vice Mayor Andy Pease, Mayor Erica A. Stewart
Council Members Absent:	Council Member Jan Marx
City Staff Present:	Interim City Manager Whitney McDonald, Christine Dietrick, City Attorney, Teresa Purrington, City Clerk

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1. CLOSED SESSION (4:30 - 5:30 PM)

1.a CALL TO ORDER

Mayor Erica A. Stewart called the Closed Session Meeting of the San Luis Obispo City Council to order at 4:30 p.m. in the Council Hearing Room in City Hall, 990 Palm Street. San Luis Obispo with Council Member Marx absent.

1.b PUBLIC COMMENT FOR CLOSED SESSION ITEMS ONLY

Public Comments:
None

---End of Public Comment---

1.c PUBLIC EMPLOYEE APPOINTMENT

1.c.1 CONFERENCE WITH LABOR NEGOTIATORS

ACTION: City Attorney Christine Dietrick indicated that the Council met in Closed Session regarding Public Employee Appointment and Conference with Labor Negotiators regarding the City Manager. There was no reportable action; however, the Council did not conclude their discussion, so they continued the item to after the Regular meeting on July 2, 2024.

1.d ADJOURNMENT

2. REGULAR MEETING CALL TO ORDER: STARTS AT 5:30 PM

A Regular Meeting of the San Luis Obispo City Council was called to order on July 2, 2024 at 5:30 p.m. in the Council Chambers, 990 Palm Street, San Luis Obispo, by Mayor Stewart with Council Member Marx absent.

3. PLEDGE OF ALLEGIANCE

Council Member Shoresman led the Council in the Pledge of Allegiance.

4. PRESENTATIONS

4.a CITY MANAGER REPORT

Interim City Manager Whitney McDonald provided a report on upcoming projects.

5. PUBLIC COMMENT PERIOD FOR ITEMS NOT ON THE AGENDA

Public Comment:
Andrew Gould
Jackie Garza
Robert Skinner
Silvia
Bassem
Gene Nelson

--End of Public Comment--

6. CONSENT AGENDA

Motion By Mayor Stewart
Second By Council Member Shoresman

Approve Consent Items 6a to 6f.

Ayes (4): Council Member Francis, Council Member Shoresman, Vice Mayor Pease, and Mayor Stewart

Absent (1): Council Member Marx

CARRIED (4 to 0)

6.a WAIVE READING IN FULL OF ALL RESOLUTIONS AND ORDINANCES

Waive reading of all resolutions and ordinances as appropriate.

6.b MINUTES REVIEW - JUNE 13, 2024 AND JUNE 18, 2024 COUNCIL MINUTES

Approve the following minutes of the City Council:

- June 13, 2024 - Special Closed Session Meeting
- June 18, 2024 - Regular Meeting

6.c SELECTION OF VOTING DELEGATE AND ALTERNATES FOR THE 2024 LEAGUE OF CALIFORNIA CITIES ANNUAL CONFERENCE

Appoint Council Member Emily Francis as the Voting Delegate and Council Member Jan Marx as Alternate Voting Delegate to vote on the City's behalf at the Annual Business Meeting of the League of California Cities on Thursday, October 17, 2024.

6.d SUCCESSOR MEMORANDUM OF UNDERSTANDING FOR THE SAN LUIS OBISPO POLICE OFFICERS' ASSOCIATION

1. Adopt Resolution No. 11505 (2024 Series) entitled, "A Resolution of the City Council of the City of San Luis Obispo, California, adopting and ratifying the Memorandum of Understanding between the City of San Luis Obispo and the San Luis Obispo Police Officers' Association for The Period of July 1, 2024, to June 30, 2027"; and
2. Adopt Regular and Supplemental Employee Salary Schedules effective July 4, 2024, as required by California Public Employees Retirement System (CalPERS)

6.e ADOPTION OF FY 2024-25 COMMUNITY PROMOTION PROGRAMS FOR TOURISM BUSINESS IMPROVEMENT DISTRICT (TBID) AND PROMOTIONAL COORDINATING COMMITTEE (PCC)

In accordance with the City's Municipal Code for the Tourism Business Improvement District (TBID) Board, and as recommended by the TBID and the Promotional Coordinating Committee (PCC):

1. Authorize the budget adjustment of $66,500 from the TBID Fund's available un-assigned fund balance into the Fiscal Year 2024-25 (FY 24-25) TBID program budget for contract services; and
2. Authorize the City Manager to enter into program expenditures and various contracts for the TBID not to exceed the FY 2024-25 budget of $2,183,751 based on the recommendations by the TBID Board; and

3. Authorize the City Manager to enter into expenditures utilizing the TBID Fund's available un-assigned fund balance in FY 2024-25 based on the most recent audited financials and the recommendations by the TBID Board; and

4. Authorize the City Manager to use the TBID Fund Reserve of $100,000 for tourism marketing expenditures in FY 2024-25 in accordance with the TBID reserve policy.

5. Authorize the City Manager to enter into various contracts and program expenditures for Community Promotions not to exceed the FY 2024-25 program budget of $413,234 based on the recommendations by the PCC; and a. This includes the 2024-25 Cultural Arts & Community Promotions (CACP) allocations in the amount of $100,000 and authorization to execute individual agreements with each grant recipient.

6.f APPROVE AN UPDATED MEMORANDUM OF UNDERSTANDING WITH THE SAN LUIS OBISPO COUNTY REGIONAL SWAT TEAM

Adopt Resolution No. 11506 (2024 Series) entitled, "A Resolution of the City Council of the City of San Luis Obispo, California, authorizing the Chief of Police to enter into a Memorandum of Understanding to participate in the San Luis Obispo Regional Special Weapons and Tactics Team (Regional Swat Team)."

7. PUBLIC HEARING AND BUSINESS ITEMS

Mayor Stewart reordered the agenda to take Item 7b before Item 7a,

7.b PUBLIC HEARING TO DETERMINE EXISTENCE OF A PUBLIC NUISANCE AT 205 CASA STREET AND 1067 MURRAY AVENUE AND ORDER ABATEMENT THEREOF (Estimated Time: 20 minutes)

Deputy Director/Chief Building Official Michael Loew and Code Enforcement Supervisor John Mezzapesa provided an in-depth staff report and responded to Council questions.

Public Comments:
Diller Ryan

---End of Public Comment---

Motion By Vice Mayor Pease
Second By Mayor Stewart

Adopt Resolution No. 11508 (2024 Series) entitled, “A Resolution of the City Council of the City of San Luis Obispo, California, declaring that the property at 205 Casa Street and 1067 Murray Avenue constitutes a public nuisance, and ordering abatement of same.”

Ayes (4): Council Member Francis, Council Member Shoresman, Vice Mayor Pease, and Mayor Stewart

Absent (1): Council Member Marx

CARRIED (4 to 0)

7.a REVIEW AND ADOPT REVISED CITYWIDE USER AND REGULATORY FEES (Estimated Time: 120 minutes)

Interim City Manager Whitney McDonald, Finance Director Emily Jackson and Deputy Director of Finance/Controller Debbie Malicoat provided an in-depth staff report and responded to Council questions.

Public Comments:
Bruno Giuffrida
Jim Dantona
Kathy Godfrey
Sandra Rowley
Brett Cross

---End of Public Comment---

Motion By Council Member Shoresman
Second By Council Member Francis

Adopt Resolution No. 11507 (2024 Series) entitled, “A Resolution of the City Council of the City of San Luis Obispo, California, amending the City’s Comprehensive Fee Schedule with updated User and Regulatory Fees based on the Fee Study prepared by MGT Consulting Group" *with the following changes:*

- Planning Appeal fees - Policy direction that cost recovery should be 15% of the total fee as noted below
    - Tier 1 - $2507
    - Tier 2 - $1578

- Tier 3 - $772
- Tier 4 - $405

- Climate Action fees should be at a 50% cost recovery and include the pedicab permit fee.
- Fee increase phasing - Any fees increasing more than 50% and $10 will be phased in over 2 years with half of the increase effective on October 1, 2024 and the second half of the increase effective July 1, 2025 as indicated in Attachment E of the Council Agenda Report.

Direction on cost recovery policies to be brought back to the Council in November as follows:

- Change to fee study review every 3 years instead of 5 years
- Market rate analysis for certain types of fees
- Changing certain Parks and Recreation categories for childcare, ranger camps, film permits and golf.
- Also watch the Concealed Carry Weapon permit

Ayes (4): Council Member Francis, Council Member Shoresman, Vice Mayor Pease, and Mayor Stewart

Absent (1): Council Member Marx

CARRIED (4 to 0)

7.c ESTABLISH AN AD-HOC SUBCOMMITTEE TO DETERMINE RECYCLED WATER SALES NEGOTIATION PARAMETERS AND TO EXPAND THE RECYCLED WATER REQUEST FOR INTERESTED PARTIES SOLICITATION TO INCLUDE NON-AGRICULTURAL INTERESTS (Estimated Time: 30 minutes)

Utilities Director Aaron Floyd and Deputy Director of Water Mychal Boerman provided an in-depth staff report and responded to Council questions.

Public Comments:
None

---End of Public Comment---

Motion By Mayor Stewart
Second By Council Member Shoresman

1. To establish an ad-hoc subcommittee consisting of Vice Chair Pease and Council Member Francis to assist in determining negotiation parameters, participate in contract negotiations, review draft agreements, and provide a final recommendation to the City Council for the contractual sale of surplus recycled water; and
2. To direct staff to release an expanded supplemental Request for Interested Parties solicitation for the sale of surplus recycled water to non-agricultural interests.

Ayes (4): Council Member Francis, Council Member Shoresman, Vice Mayor Pease, and Mayor Stewart

Absent (1): Council Member Marx

CARRIED (4 to 0)

8. LIAISON REPORTS AND COMMUNICATIONS

Mayor Stewart attended the virtual CalCities Community Services Committee meeting, the County Mayor's meeting, story time at Barnes and Noble, and the Monday meet-up at Thorpe Park.

Council Member Francis attended the CAPSLO meeting.

Council Member Shoresman also attended the virtual CalCities Community Services Committee meeting, the ribbon cutting of the Sobering Center, and the HSOC executive meeting.

9. ADJOURNMENT

The Regular meeting was adjourned at 10:52 p.m. to the Continued Closed Session.

CONTINUED CLOSED SESSION REPORT OUT

ACTION: City Attorney Christine Dietrick indicated that there was no reportable action taken.

Mayor Stewart adjourned the Closed Session at 12:17 a.m. The next Regular City Council Meeting is scheduled for July 16, 2024 at 5:30 p.m. in the Council Chambers at City Hall, 990 Palm Street, San Luis Obispo.

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APPROVED BY COUNCIL: XX/XX/2024

Department: Utilities
Cost Center: 6003
For Agenda of: 7/16/2024
Placement: Consent
Estimated Time: N/A

FROM: Aaron Floyd, Utilities Director
Prepared By: Miguel Barcenas, Deputy Director – Engineering and Planning
Shawna Scott, Special Projects Manager

SUBJECT: AUTHORIZATION TO ADVERTISE THE WATER TREATMENT PLANT OZONE CONTAINMENT IMPROVEMENT PROJECT, SPECIFICATION 2001026

RECOMMENDATION

1. Approve the project plans and special provisions for the Water Treatment Plant Ozone Containment Improvement Project, Specification Number 2001026; and
2. Authorize staff to advertise for bids; and
3. Authorize the City Manager to award the construction contract for the bid total if the lowest responsible bid is within the available budget for the Water Treatment Plant Major Equipment Maintenance Project; and
4. Authorize the City Engineer to approve Contract Change Orders up to the available project budget; and
5. Find the Project categorically exempt from the California Environmental Quality Act pursuant to State CEQA Guidelines Section 15301 and 15303.

POLICY CONTEXT

The Water Treatment Plant Ozone Containment Improvement Project (Project) is consistent with the City adopted General Plan Water and Wastewater Element (WWE) Goals A 2.1 and A 3.1 because maintenance of the Water Treatment Plant (WTP) is necessary to ensure a long-term, reliable water supply and manage the City's water resources to meet both current and future water demand associated with development envisioned by the General Plan.

DISCUSSION

Background

The City's Water Treatment Plant was originally constructed in 1961. In 1995, a significant upgrade to the plant was completed to meet changing water quality requirements. This upgrade included installation of ozone generators and an ozone contact basin to provide an ozone-based process in place of the traditional chlorine-based process to meet water quality regulations.

In March of 2023, another major upgrade project was completed that replaced older disinfection equipment including replacement of the ozone generation system and added additional source water capacities needed to enhance the treatment processes. Ongoing maintenance of the facilities and equipment at the Water Treatment Plant is necessary to prolong the useful life of the facilities and ensure staff's ability to operate the plant and treat water to State and Federal standards.

Starting in early October 2021, ozone started being detected in the Water Treatment Plant Air Prep Room. The cause of the release and location of the ozone was identified through field investigations, which traced the leak to the ozone contact basin and necessitated inclusion of the ozone containment project within the Water Treatment Plant Major Equipment Maintenance Project (Project Number 2001026) in the City's Mid-year Budget Review for Fiscal Year 2023-24.

The proposed ozone containment project will consist of the demolition of an existing riser and valve box, construction of a new manhole and valve, interception of a 12-inch ozone contact basin overflow pipe, redirection of an existing chemical main to the new manhole, construction of fabricated metal shade structures, extension of existing concrete flatwork to include stairs and extension of a walkway, and installation of hazard signs. All work will occur within the existing Water Treatment Plant. As a result of the project, ozone gas would be prevented from entering the manhole under normal operating and maintenance activities and reduce potential risks to Water Treatment Plant staff.

Previous Council or Advisory Body Action
In June 2023, the City Council adopted the 2023-25 Financial Plan, which allocated $189,000 in fiscal year 2023-24 and $180,000 in fiscal year 2024-25 for Water Treatment Plant Major Equipment Maintenance (Project Number 99653 [2001026]).

During the Mid-Year Budget Review for Fiscal Year 2023-24, the City Council approved an additional $180,000 for Water Treatment Plant Major Equipment Maintenance including water treatment plant ozone containment repairs.

Public Engagement
This capital project was included in the 2023-25 Financial Plan and Mid-Year Budget Review which had extensive community outreach and afforded opportunities for the public to review and comment on all capital projects.

CONCURRENCE

The Water Treatment Plant Supervisor concurs with the proposed scope and approach of the ozone containment maintenance task.

ENVIRONMENTAL REVIEW

The project qualifies for a Categorical Exemption to the California Environmental Quality Act (CEQA) pursuant to State CEQA Guidelines Sections 15301 (Existing Facilities) and 15303 (New Construction or Conversion of Small Structures) because the project consists of the repair, maintenance, and minor alteration of existing facilities and equipment, and the construction of small structures within the Water Treatment Plant. The project would not result in an expansion of the existing use of the facility, nor increase capacity.

FISCAL IMPACT

Budgeted: Yes
Budget Year: 2024-25
Funding Identified: Yes

Fiscal Analysis:

Funding Sources	Total Budget Available	Current Funding Request	Remaining Balance	Annual Ongoing Cost
Water Fund - Water Treatment Plant Major Equipment Maintenance (2001026).	$496,722.72	$216,000	$280,722.72	N/A
Total	**$496,722.72**	**$216,000**	**$280,722.72**	**N/A**

The 2023-25 Financial Plan includes $180,000 in fiscal year 2024-25 for Water Treatment Plant Major Equipment Maintenance (Project Number 99653 [2001026]).

During the Mid-Year Budget Review for Fiscal Year 2023-24, the City Council approved an additional $180,000 for Water Treatment Plant Major Equipment Maintenance including water treatment plant ozone containment repairs. The budget change was identified as a one-time request that will address minor modifications to meet required permit compliance for the water treatment plant. There is $496,722.72 remaining in the Maintenance Project account, including $477,535.51 for ozone system maintenance, inclusive of the ozone containment project. Therefore, there are adequate funds available to construct the project and $280,722 would remain in the Maintenance Project account.

ALTERNATIVES

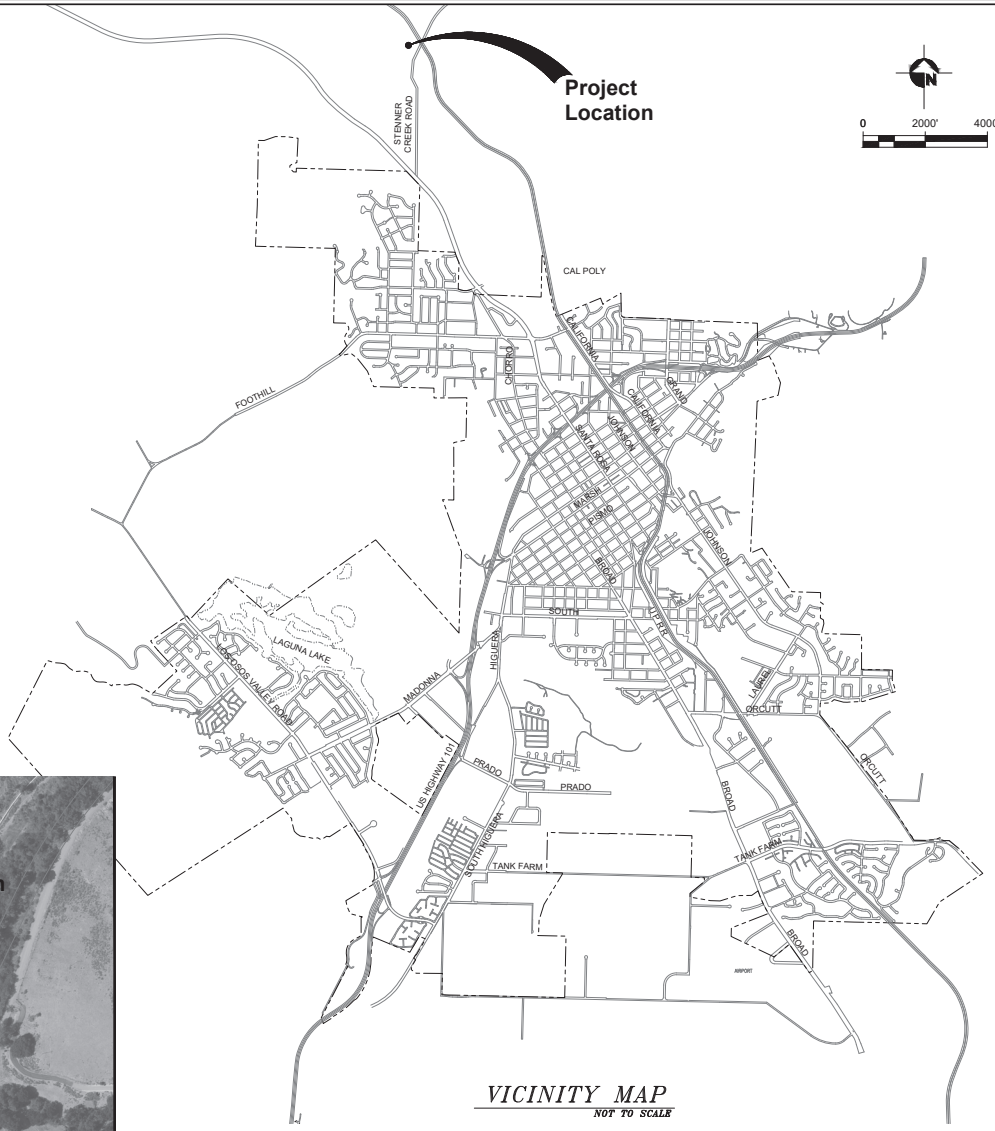
***Deny the approval to advertise the project*.** City Council could choose to deny the authorization to advertise this project. Staff does not recommend this alternative as the maintenance project is necessary to address potential worker safety issues associated with release of ozone within the Water Treatment Plant.

ATTACHMENTS

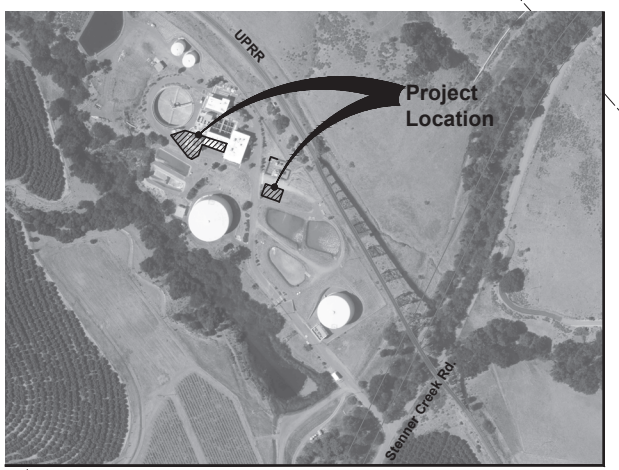
A - Ozone Containment Project Plans Spec 2001026
B - Draft Special Provisions and Technical Specifications

general notes:

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR PERMITTEE TO CONTACT "UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA" BY PHONE AT 8-1-1 FORTY-EIGHT (48) HOURS PRIOR TO START OF CONSTRUCTION FOR LOCATION OF POWER, TELEPHONE, OIL AND NATURAL GAS UNDERGROUND FACILITIES. CONTRACTOR OR PERMITTEE SHALL ALSO CONTACT THE APPROPRIATE AGENCY FOR THE LOCATION OF CABLE T.V., WATER, SEWER, DRAINAGE OR UNDERGROUND FACILITIES.
2. THE CONTRACTOR SHALL POSSESS A CLASS "A" LICENSE AT THE TIME OF BID OPENING AND THROUGHOUT THE PROJECT.
3. DRAWINGS PROVIDED ARE SCHEMATIC. ALL DIMENSIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR.



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

Index to Plans

Sheet No.	*Sheet Description*
G-001	TITLE SHEET, LOCATION MAP, VICINITY MAP, AND SHEET INDEX
G-002	LEGEND, ABBREVIATIONS, AND NOTES
C-101	SITE PLAN
C-102	CIVIL DETAILS - I
C-103	CIVIL DETAILS - II
C-104	CIVIL DETAILS - III
C-105	OZONE CONTACT BASIN MODIFICATIONS
S-001	STRUCTURAL NOTES
S-002	LIST OF SPECIAL INSPECTIONS
S-101	EQUIPMENT AWNING FRAMING PLAN AND SECTIONS
S-102	EQUIPMENT SHADE COVER FOUNDATION AND FRAMING PLAN
S-103	EQUIPMENT SHADE COVER SECTION VIEW
S-201	EQUIPMENT AWNING FRAMING PLAN AND SECTIONS

Reference Documents:
City Standard Specifications - August 2020 Edition
City Engineering Standards - August 2020 Edition

san luis obispo county, california

CITY OF SAN LUIS OBISPO WATER TREATMENT PLANT OZONE CONTAINMENT IMPROVEMENT PROJECT

APPROVED

APPROVED BY

Brian A. Nelson, City Engineer, R.C.E. C79870 *Approved Date*

APPROVED

LICENSED PROFESSIONAL ENGINEER — No. M33232 — BRIAN A. NELSON — STATE OF CALIFORNIA

Date

mkn
P.O. BOX 1604
ARROYO GRANDE, CA 93421 (805) 904-6530

SPECIFICATION NO.	DATE	SHEET
2001026	JUNE 2024	**1** of **13**
	FILE NO./LOCATION	

DWG: \\mkn-fs\projects\City SLO\plots-2022-002 ozone containment improvements\300 engineering\301 CAD\Panels\G-001.dwg USER: jfoster
DATE: Jun 13, 2024 9:34am XREFS: IMAGES: GAMMON.png IEH_Stg.png SLO emblem_Bmp_med_pc.tif TP metal_BW.tif

GENERAL NOTES

1. VERIFY DIMENSIONS AND CONDITIONS AT THE SITE BEFORE STARTING WORK. ANY CONFLICTS BETWEEN DETAILS OR DIMENSIONS ON THE DRAWINGS SHALL BE REPORTED PROMPTLY TO THE ENGINEER.
2. TAKE PRECAUTIONARY MEASURES TO PROTECT UTILITIES AND STRUCTURES SHOWN AND ALL OTHERS NOT ON RECORD DRAWINGS OR NOT SHOWN ON THESE PLANS. ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED TO BETTER OR EQUAL THAN ORIGINAL CONDITION AND/OR THE APPLICABLE REQUIREMENTS OF THE AFFECTED UTILITY AT THE CONTRACTOR'S EXPENSE. APPROVAL OF REPAIRS OR RECONSTRUCTION BY CITY SHALL ALSO BE REQUIRED.
3. COORDINATE UNDERGROUND UTILITY MARKING WITH THE LOCAL UNDERGROUND SERVICE ALERT JURISDICTION (CALL 811) PRIOR TO CONSTRUCTION.
4. VERIFY LOCATIONS AND DEPTHS OF EXISTING UTILITIES BEFORE BEGINNING ANY GRADING OPERATIONS. LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.
5. IMMEDIATELY NOTIFY THE CITY UPON LEARNING OF THE EXISTENCE AND LOCATIONS OF ANY UNDERGROUND FACILITIES NOT SHOWN OR SHOWN INACCURATELY ON THESE PLANS OR NOT PROPERLY MARKED BY THE UTILITY OWNER.
6. USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND POWER, GAS, OR OTHER UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT. PROTECT FROM DAMAGE INCURRED DURING CONSTRUCTION ALL OVERHEAD UTILITY LINES WHETHER SHOWN OR NOT SHOWN ON THESE PLANS. NOTIFY UTILITY COMPANIES PRIOR TO ANY WORK IN OVERHEAD LOCATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR COST INCURRED.
7. PRESERVE ALL SURVEY MARKERS AND MONUMENTATION PER SPECIFICATION SECTION 5-1.36E. THOSE REQUIRING REMOVAL SHALL BE TIED OUT; A CORNER RECORDED; AND RE-ESTABLISHED IN ACCORDANCE WITH THE LOCAL GOVERNING AUTHORITY AND CITY STANDARDS.
8. ALL SPECIFICATIONS, DRAWINGS, AND DETAILS INCLUDED IN THE CONTRACT DOCUMENTS SHALL FULLY APPLY TO THE WORK WHETHER SPECIFICALLY REFERENCED OR NOT.
9. PROVIDE VIDEO DOCUMENTATION OF THE PRE-CONSTRUCTION CONDITIONS OF THE PROJECT SITE AND SURROUNDING AREA. SUBMIT THE VIDEO TO THE CITY PRIOR TO THE START OF CONSTRUCTION PER SPECIFICATION SECTION 013233.
10. MAINTAIN THE WORK AREA IN A NEAT, CLEAN, AND SANITARY CONDITION AT ALL TIMES AND TO THE SATISFACTION OF THE CITY. STREETS AND DRIVEWAYS SHALL BE KEPT CLEAN OF DEBRIS, WITH DUST AND OTHER NUISANCES BEING CONTROLLED AT ALL TIMES.
11. MAINTAIN A COMPLETE AND ACCURATE RECORD OF ALL CHANGES IN CONSTRUCTION FROM THAT SHOWN IN THESE PLANS AND SPECIFICATIONS FOR THE PURPOSE OF PROVIDING A BASIS FOR RECORD DRAWINGS. THE CONTRACTOR SHALL NOTE DEVIATIONS FROM THE PLANS ON A SET OF PLANS SPECIFICALLY SET ASIDE FOR THIS PURPOSE. ANY CHANGES SHALL BE MADE ON THE ORIGINALS OF THE PLANS. NO CHANGES FROM THAT SHOWN ON THESE PLANS AND SPECIFICATIONS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.
12. RESTORE ALL PAVEMENT, CONCRETE, ASPHALT, SIDEWALKS, CURBS, TRUNCATED DOMES, AND DRIVEWAY SURFACES REMOVED OR DAMAGED DURING CONSTRUCTION UNLESS INDICATED OTHERWISE ON THE PLANS. PAVEMENT SHALL BE PER CITY STANDARDS. OTHER SURFACES SHALL BE RESTORED IN-KIND UNLESS INDICATED OTHERWISE.
13. CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO THE HOURS REFERENCED IN THE CITY'S SPECIAL PROVISIONS AND AS LIMITED BY LOCAL ORDINANCE.
14. ALL FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF SAN LUIS OBISPO STANDARDS AND SPECIFICATIONS, UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS.
15. PROVIDE CHEMICAL TOILETS AND TRASH RECEPTACLES PER SPECIFICATION SECTION 015210. USE OF CITY FACILITIES IS PROHIBITED.
16. MAINTAIN OWNER ACCESS TO ALL FACILITIES AT ALL TIMES. THE PROJECT SITE IS ADJACENT TO THE PLANT AND LOOP ROAD. OBTAIN APPROVAL FROM THE CITY FOR PLANNED CLOSURES OR ACCESS RESTRICTIONS IN WRITING ONE (1) WEEK IN ADVANCE.

PROJECT NOTES

1. FILTER BACKWASH WATER WITH FLOW RATES UP TO 12,000 GPM WILL PASS THROUGH THE 24-INCH PIPING CONNECTED TO MANHOLE 11 WITHOUT WARNING.

   ENTRY INTO MANHOLE 11 IS PROHIBITED WHEN PLANT IS IN OPERATION. MODIFICATIONS TO MANHOLE 11, INCLUDING MODIFICATIONS TO THE 12-INCH PIPE FROM MH-12, IS PROHIBITED WHEN PLANT IS IN OPERATION. NIGHT WORK IS REQUIRED. REFER TO SPECIFICATION SECTION 011100.
2. CONTINUOUSLY MONITOR AMBIENT OZONE CONCENTRATIONS WHEN WORKERS ARE IN EXCAVATIONS OR MANHOLES PER SPECIFICATION SECTION 011100.
3. PRIOR TO BEGINNING OF CONSTRUCTION, LOCK OUT AND TAG OUT EXISTING 4-INCH PVC BALL VALVE ON THE DISCHARGE FROM EXISTING CHEMICAL TANK.
4. FIELD WELDING IS STRICTLY PROHIBITED WITHIN VICINITY OF THE LIQUID OZONE STORAGE TANK.

EROSION CONTROL NOTES

1. COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA STATE WATER RESOURCES CONTROL BOARD AND CITY STANDARD SPECIFICATIONS.
2. PROJECT DRIVEWAYS AND CONSTRUCTION ENTRANCES SHALL BE PROTECTED AGAINST EROSION AND TRACKING OF MUD AND DEBRIS AT ALL TIMES, INCLUDING EVENINGS, WEEKENDS AND HOLIDAYS. SUCH PROTECTION MAY BE MODIFIED TO PROVIDE ACCESS TO THE WORK SITE DURING WORK HOURS.
3. ALL STOCKPILES SHALL BE PROTECTED AGAINST WIND AND WATER EROSION, IMMEDIATELY UPON PLACEMENT AND REMOVED FROM STREET AT THE END OF EACH DAY. SUCH PROTECTION SHALL REMAIN IN PLACE UNTIL USE OR REMOVAL OF THE STOCKPILE, REGARDLESS OF THE TIME OF YEAR.
4. ALL FRESH CUT AND FILL SLOPES SHALL BE IMMEDIATELY PROTECTED BY INSTALLATION OF EROSION CONTROL DEVICES, AND UNTIL PERMANENT EROSION CONTROL IS ESTABLISHED.
5. PERMANENT EROSION CONTROL MEASURES SHALL BE FULLY ESTABLISHED TO THE SATISFACTION OF THE ENGINEER OR CITY. (TO BE COMPLETED NO LESS THAN 30 DAYS PRIOR TO REQUEST FOR FINAL APPROVAL.)
6. WASTE MATERIALS SHALL NOT BE WASHED OFFSITE. THIS INCLUDES BUT IS NOT LIMITED TO SOIL, PAINT, GROUT, COLOR COAT, CONCRETE DUST, SAW RESIDUES, GRINDINGS, AND OIL.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE PLACEMENT OF EROSION CONTROL DEVICES IN ACCORDANCE WITH THE CITY'S STANDARDS AND SWRCB REQUIREMENTS.

SURVEY NOTES

DATUM:

MANHOLE INVERT ELEVATIONS ON THESE PLANS ARE BASED ON "PLANS FOR THE CONSTRUCTION OF WATER SYSTEM IMPROVEMENTS" BY PAUL J. ADAMSON CONSULTING, 1963.

ABBREVIATIONS

AC	ASPHALTIC CONCRETE	LOx	LIQUID OXYGEN
ARV	AIR RELEASE VALVE	MJ	MECHANICAL JOINT
ATS	AUTOMATIC TRANSFER SWITCH	(N)	NEW
		NIC	NOT IN CONTRACT
AVV	AIR VACUUM VALVE	PD	PLANT DRAIN
℄	CENTERLINE	PC	POINT ON CURVE
CAV	COMBINATION AIR VALVE	PCC	PORTLAND CONCRETE PAVEMENT
DIA.	DIAMETER	PE	PLAIN END
DIP	DUCTILE IRON PIPE	PH	POTHOLE
(E)	EXISTING	PI	POINT OF INFLECTION
EC	END OF CURVE	PL	PROPERTY LINE
EL	ELEVATION	PP	POWER POLE
EXIST.	EXISTING	PRV	PRESSURE REDUCING VALVE
FLG	FLANGE	R/W	RIGHT-OF-WAY
FL	FLOW LINE	SD	STORM DRAIN
FCTF	FIELD CUT TO FIT	SS	SANITARY SEWER
FO	FIBER OPTIC	STA	STATION
GRS	GALVANIZED RIGID STEEL	TS	TRAFFIC SIGNAL
GOx	GASEOUS OXYGEN	WWRB	WASHWATER RECLAMATION BASIN
IT	INFORMATION TECHNOLOGY		

LEGEND

C C C C	COMMUNICATION LINE
SS4	SANITARY SEWER WITH SIZE
IW10	WATER WITH SIZE
SLDG4 SLDG4	SLUDGE LINE WITH SIZE
E E E E	UNDERGROUND ELECTRICAL LINE
OE OE	OVERHEAD ELECTRICAL LINE
T T	TELEPHONE LINE
G2	GAS LINE WITH SIZE
GOX GOX	GOX LINE
ETC ETC	ELEC / TELEPHONE / CABLE
D24	DRAIN WITH SIZE

Know what's below. Call before you dig.

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ARROYO GRANDE, CA 93421 (805) 904-6530

CITY OF SAN LUIS OBISPO

PROJECT TITLE:
CITY OF SAN LUIS OBISPO
WTP OZONE CONTAINMENT IMPROVEMENT PROJECT

SHEET TITLE:
LEGEND, ABBREVIATIONS, AND NOTES

REGISTERED PROFESSIONAL ENGINEER — JOHN E. HANSEN — No. M33232 — MECHANICAL — STATE OF CALIFORNIA

DESIGNED BY:	JEH
DRAWN BY:	JPF
CHECKED BY:	---
APPROVED BY:	---
SCALE:	AS NOTED ON PLANS
DATE:	JUNE 2024
CITY SPECIFICATION NO.	2001026
PLAN FILE NO. / LOCATION	
SHEET NO:	G-002

2 of 13

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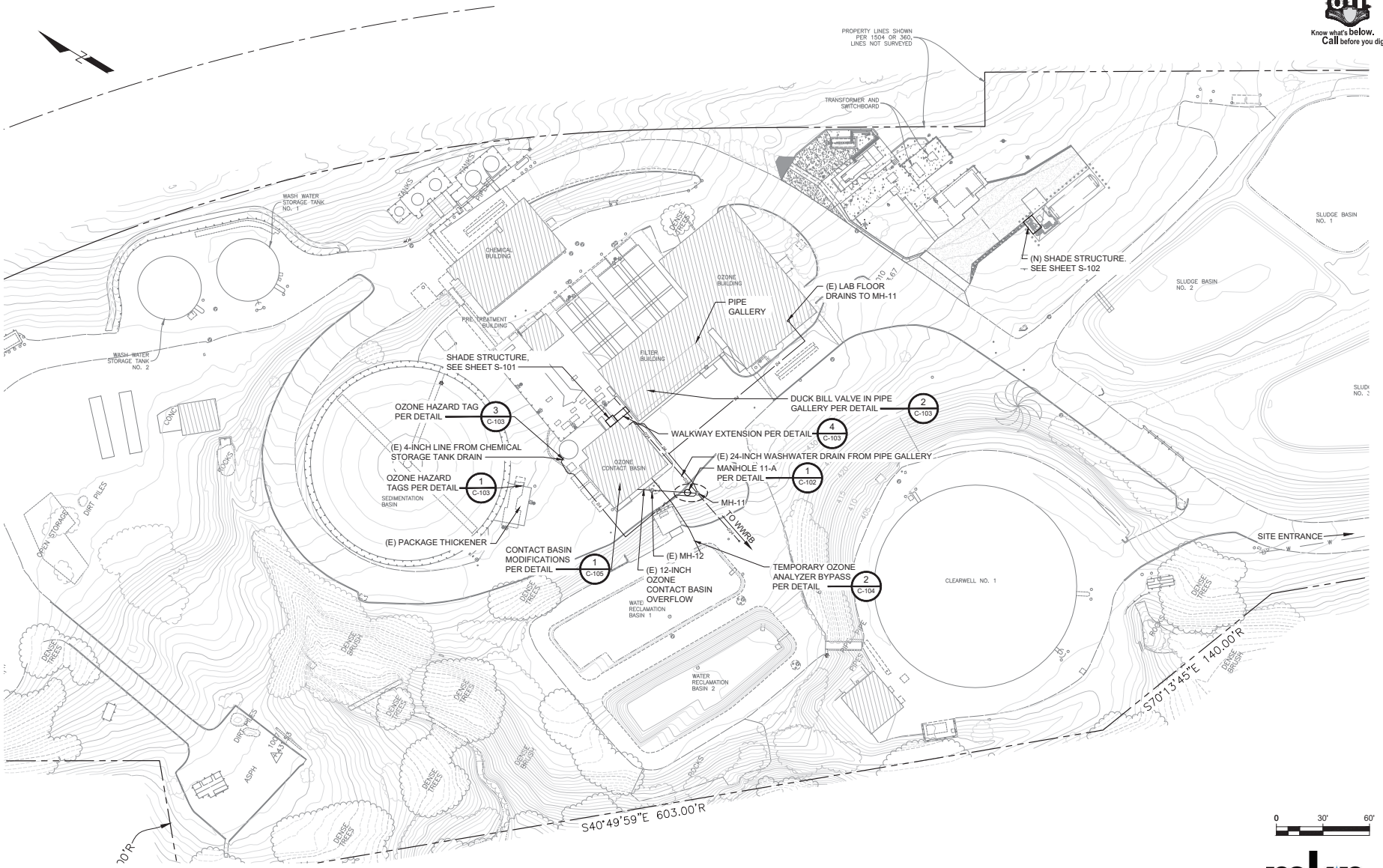

SITE PLAN
SCALE: 1" = 30'

Know what's below. Call before you dig.

CITY OF SAN LUIS OBISPO
WTP OZONE CONTAINMENT IMPROVEMENT PROJECT

PROJECT TITLE:

SHEET TITLE: SITE PLAN

No. M33232 MECHANICAL STATE OF CALIFORNIA

DESIGNED BY: JC
DRAWN BY: JPF
CHECKED BY: ---
APPROVED BY: ---
SCALE: AS NOTED ON PLANS
DATE: JUNE 2024
CITY SPECIFICATION NO. 2001026
PLAN FILE NO. / LOCATION
SHEET NO: C-101
3 of 13

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P.O. BOX 1604
ARROYO GRANDE, CA 93421 (805) 904-6530

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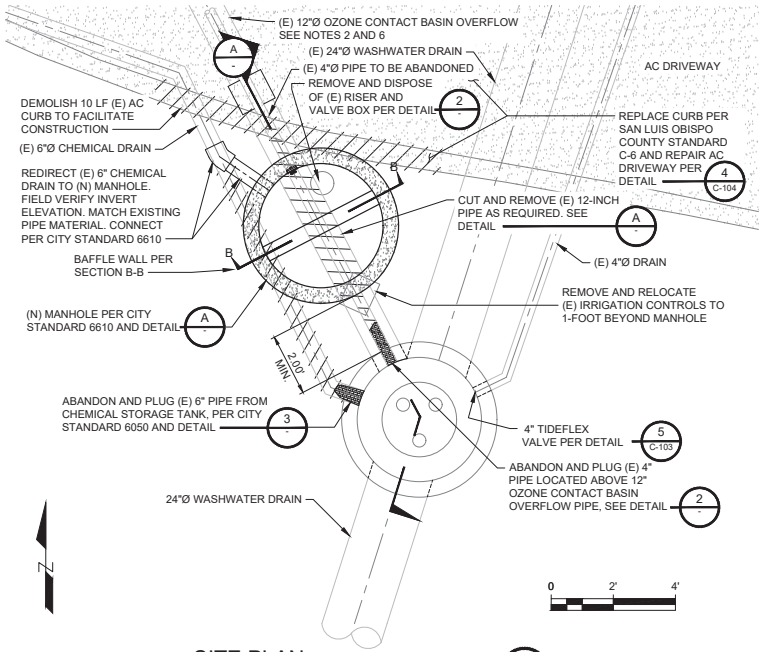
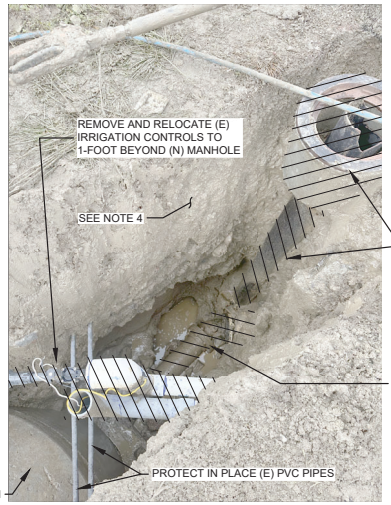


SITE PLAN

SCALE: 1" = 2'



DEMOLITION DETAIL

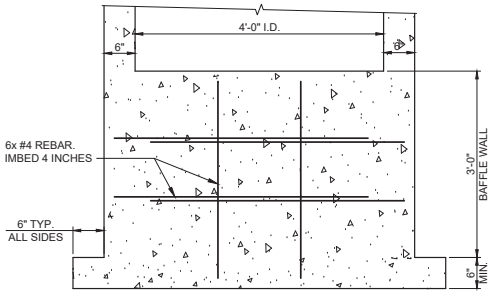
NOT TO SCALE

MH-11 DEMOLITION DETAIL

NOT TO SCALE

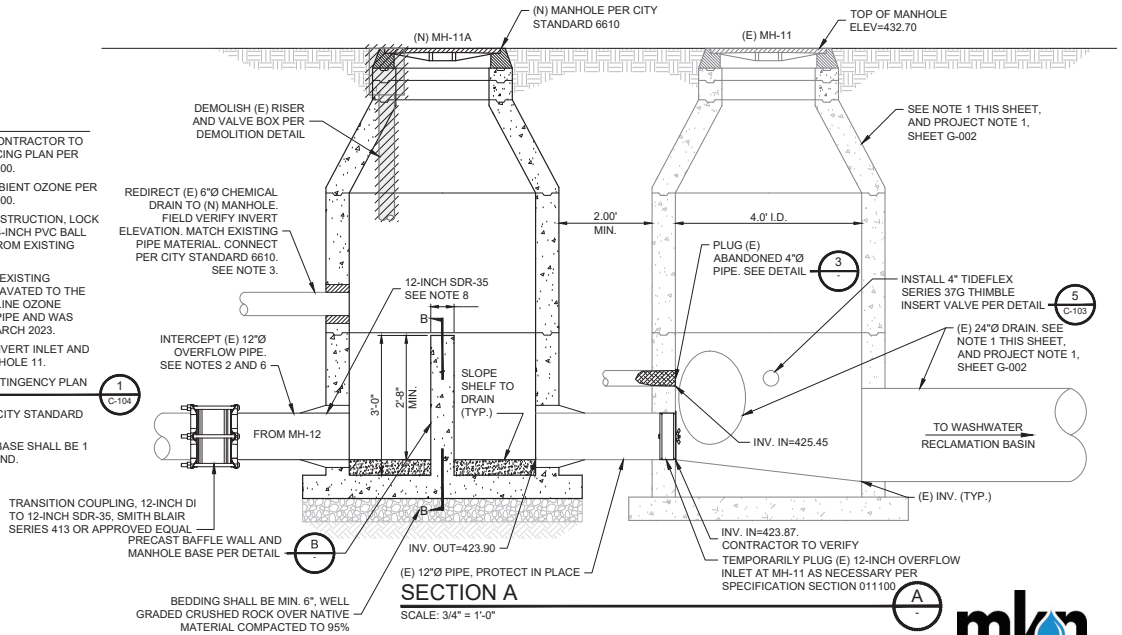
NOTES:

1. NIGHT WORK IS REQUIRED. CONTRACTOR TO SUBMIT A DETAILED SEQUENCING PLAN PER SPECIFICATION SECTION 011100.
2. CONTINUOUSLY MONITOR AMBIENT OZONE PER SPECIFICATION SECTION 011000.
3. PRIOR TO BEGINNING OF CONSTRUCTION, LOCK OUT AND TAG OUT EXISTING 4-INCH PVC BALL VALVE ON THE DISCHARGE FROM EXISTING CHEMICAL TANK.
4. THE AREA ADJACENT TO THE EXISTING MANHOLE 11 WAS HYDROEXCAVATED TO THE SPRINGLINE OF THE 12-INCH LINE OZONE CONTACT BASIN OVERFLOW PIPE AND WAS BACKFILLED WITH SAND IN MARCH 2023.
5. CONTRACTOR TO CONFIRM INVERT INLET AND OUTLET ELEVATION FOR MANHOLE 11.
6. SUBMIT OVERFLOW PIPE CONTINGENCY PLAN PER DETAIL 1 C-104
7. BACKFILL WITH SLURRY PER CITY STANDARD 77-1.02B.
8. MORTAR USED AT MANHOLE BASE SHALL BE 1 PART CEMENT TO 4 PARTS SAND.



PRECAST BAFFLE WALL

SCALE: 1" = 1'-0"



SECTION A

SCALE: 3/4" = 1'-0"

P.O. BOX 1604
ARROYO GRANDE, CA 93421 (805) 904-6530

CITY OF SAN LUIS OBISPO
WTP OZONE CONTAINMENT IMPROVEMENT PROJECT

PROJECT TITLE:

CIVIL DETAILS - I

SHEET TITLE:

DESIGNED BY: JC
DRAWN BY: JPF
CHECKED BY: ---
APPROVED BY: ---
SCALE: AS NOTED ON PLANS
DATE: JUNE 2024
CITY SPECIFICATION NO. 2001026
PLAN FILE NO. / LOCATION:
SHEET NO. C-102
4 of 13

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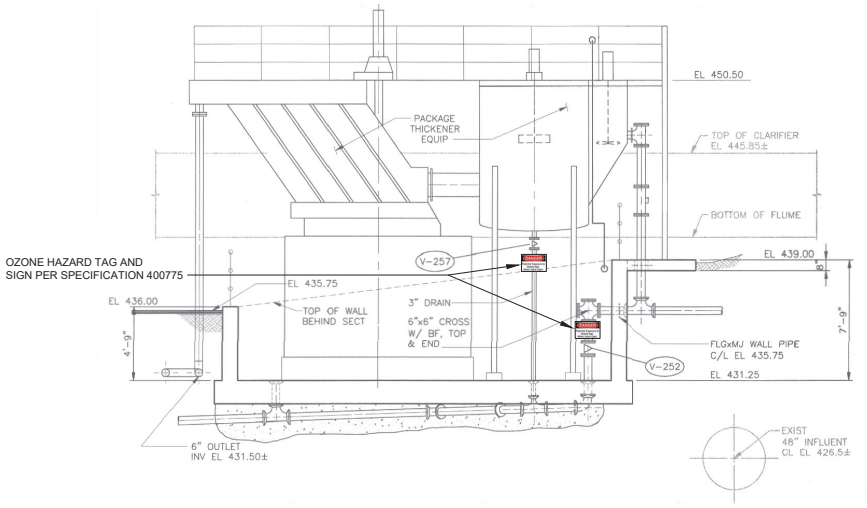
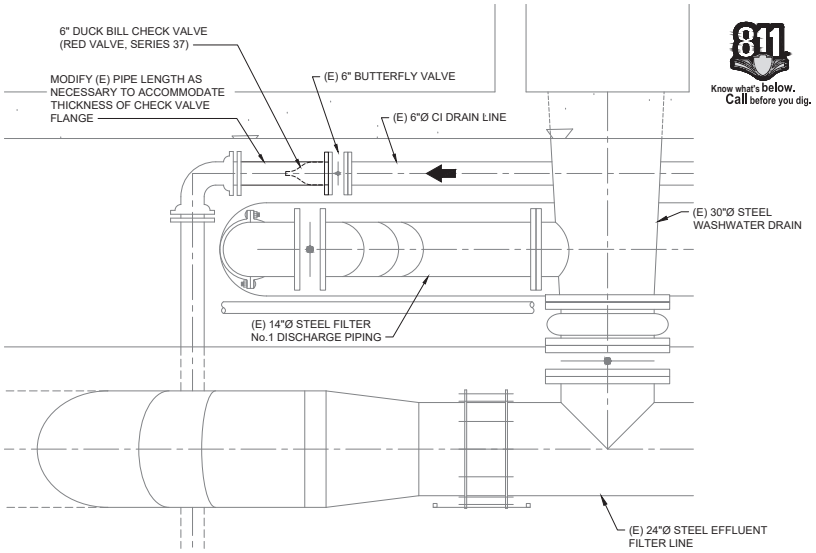


PACKAGE THICKENER HAZARD TAG DETAIL

SCALE: 1/4" = 1'-0"

1 / -



6" DUCK BILL CHECK VALVE IN PIPE DETAIL

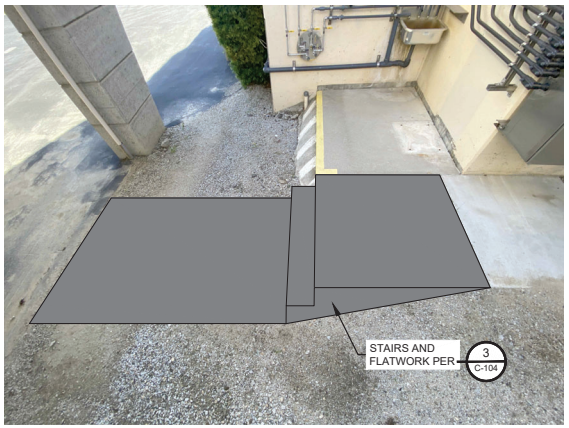
SCALE: 3/4" = 1'-0"

2 / -

CHEMICAL STORAGE TANK HAZARD TAG DETAIL

NOT TO SCALE

3 / -



NOTE:
1. CONTRACTOR TO PROVIDE ELEVATIONS AND DIMENSIONS OF SIDEWALK EXTENSION PRIOR TO FORMING FOR CITY TO REVIEW FINAL LAYOUT.

SIDEWALK EXTENSION DETAIL

NOT TO SCALE

4 / -

NOTE:
1. BOLT TO MANHOLE WALL WITH THREE (3) ¾" x 1" 316 SS WEDGE ANCHORS.

4" DUCK BILL CHECK VALVE DETAIL

NOT TO SCALE

5 / -

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CITY OF SAN LUIS OBISPO
WTP OZONE CONTAINMENT IMPROVEMENT PROJECT

PROJECT TITLE:

CIVIL DETAILS - II

SHEET TITLE:

LICENSED PROFESSIONAL ENGINEER — No. M33232 — MECHANICAL — STATE OF CALIFORNIA

DESIGNED BY:	JC
DRAWN BY:	JPF
CHECKED BY:	---
APPROVED BY:	---
SCALE:	AS NOTED ON PLANS
DATE:	JUNE 2024
CITY SPECIFICATION NO.	2001026
PLAN FILE NO. / LOCATION	
SHEET NO:	C-103
	5 of 13

DWG: \mkn-fs\projects\City SLO\cityslo-2022-.008 ozone containment improvements\300 engineering\301 CAD\Sheets\C-103.dwg USER: jfrost-ther
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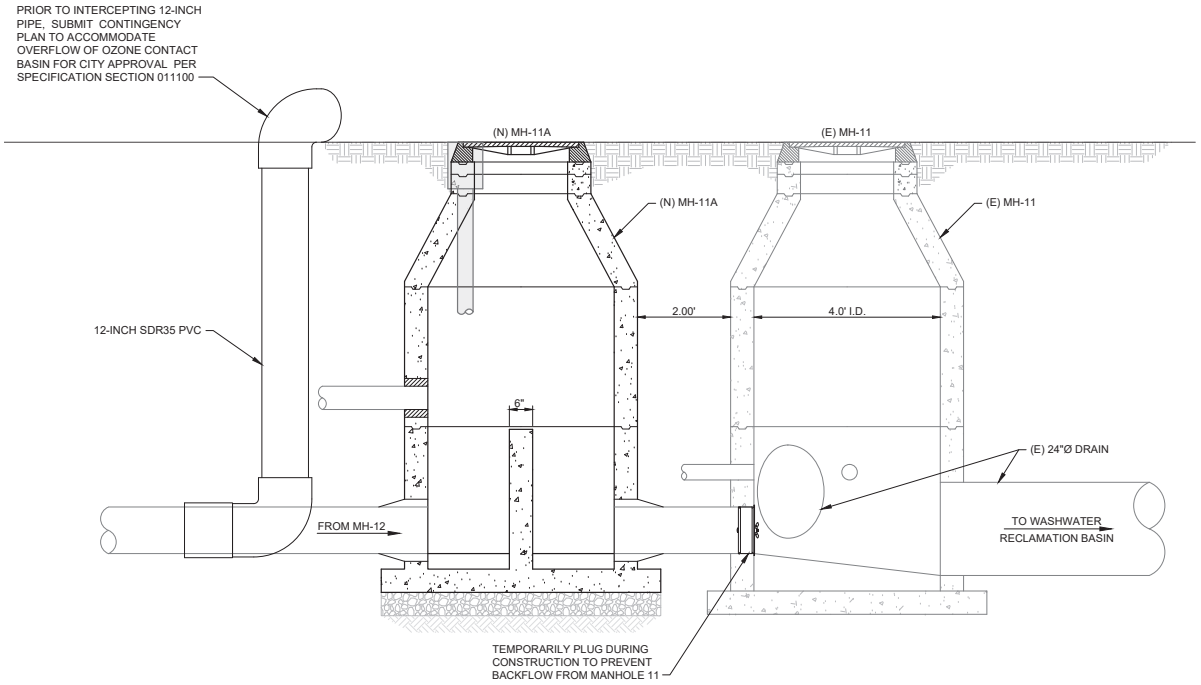
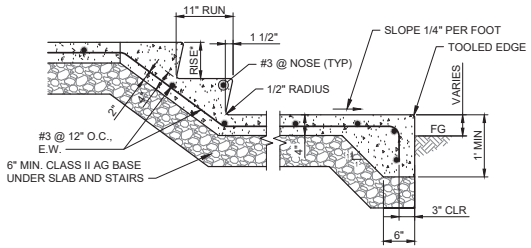


TEMPORARY CONTACTOR OVERFLOW PIPE CONTINGENCY PLAN 1

SCALE: 3/4" = 1'-0"

TEMPORARY OZONE ANALYZER BYPASS 2

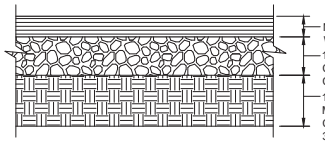
SCALE: NTS



*COORDINATE STAIR RISE WITH TOP OF WALKWAY ELEVATION

CONCRETE STEP AND FLATWORK 3

SCALE: NTS



NOTE:

ASPHALT PAVING SHALL BE PER CITY STANDARD SPECIFICATION 30. (T.I. = 4.5)

ASPHALT PAVEMENT SECTION 4

SCALE: NTS

mkn
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CITY OF SAN LUIS OBISPO

WTP OZONE CONTAINMENT IMPROVEMENT PROJECT

PROJECT TITLE:

CIVIL DETAILS - III

SHEET TITLE:

LICENSED PROFESSIONAL ENGINEER No. M33232 MECHANICAL STATE OF CALIFORNIA

DESIGNED BY:	JC
DRAWN BY:	CA
CHECKED BY:	---
APPROVED BY:	---
SCALE:	AS NOTED ON PLANS
DATE:	JUNE 2024
CITY SPECIFICATION NO.	2001026
PLAN FILE NO. / LOCATION	
SHEET NO:	C-104
	6 of 13

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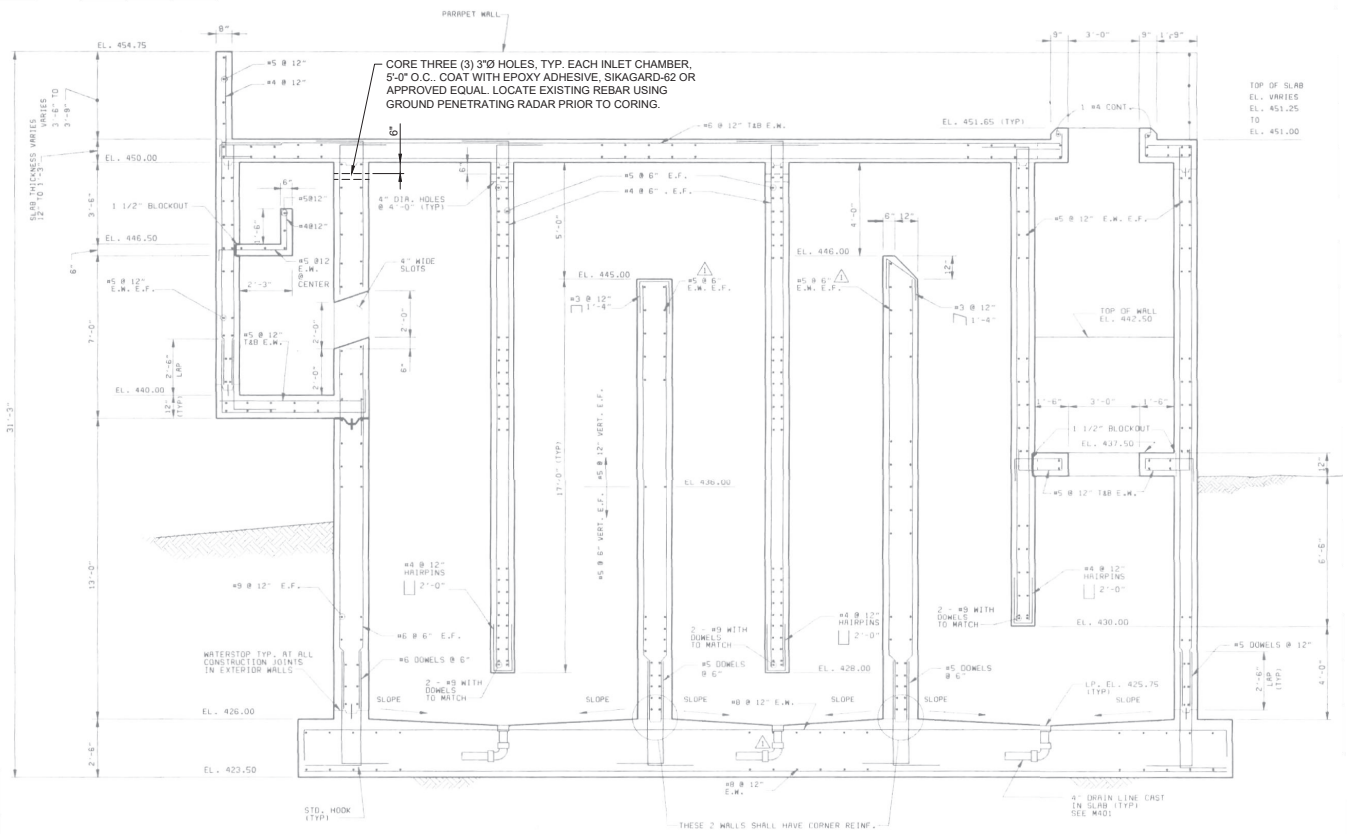

OZONE CONTACT BASIN MODIFICATIONS

SCALE: 3/8" = 1'-0"

1
-

Know what's below. Call before you dig.

CITY OF SAN LUIS OBISPO

CITY OF SAN LUIS OBISPO
WTP OZONE CONTAINMENT IMPROVEMENT PROJECT

PROJECT TITLE:

SHEET TITLE:
OZONE CONTACT BASIN MODIFICATIONS

LICENSED PROFESSIONAL ENGINEER
No. M33232
MECHANICAL
STATE OF CALIFORNIA

DESIGNED BY:	JEH
DRAWN BY:	JPF
CHECKED BY:	---
APPROVED BY:	---
SCALE:	AS NOTED ON PLANS
DATE:	JUNE 2024
CITY SPECIFICATION NO.	2001026
PLAN FILE NO. / LOCATION	
SHEET NO:	C-105
	7 of 13

mkn
P.O. BOX 1604
ARROYO GRANDE, CA 93421 (805) 904-6530

DWG: \mkn-fs\projects\City SLO\cityslo-2022-008 ozone containment improvements\300 engineering\301 CAD\Planset\C-105.dwg USER: lfradcher
DATE: Jun 13, 2024 9:36am XREFS: G-BD IMAGES: 94022.png G-MAIN.png SLO western_bmp_mod_pu.tif

STRUCTURAL NOTES

GENERAL NOTES

1. The following notes, typical details and schedules shall apply to all phases of this project unless otherwise shown or noted.
2. Specific notes and details shall take precedence over general notes and typical details.
3. All materials and workmanship shall conform to the minimum standards of the 2022 edition of the California Building Code (CBC) and such other regulating agencies exercising authority over any portion of the work. The contractor shall have a current copy of the CBC (print or digital version) on the job site.
4. The Construction Documents shall consist of these notes, details, schedules, plans, drawings, and Specifications.
5. All specifications, including but not limited to materials and products, shall be those put forth in the Construction Documents. No substitutions shall be permitted to be used or assumed to be used in the bidding or construction process without written approval by the Engineer of Record.
6. The contractor shall examine the Construction Documents and shall notify the Engineer of Record of any discrepancies they may find before proceeding with the work.
7. All information on existing conditions shown on drawings are based on best present knowledge available, but without guarantee of accuracy. The Contractor shall verify and be responsible for all dimensions and conditions at the site and shall notify the Engineer of Record of any discrepancies between actual site conditions and information shown on or in the Construction Documents before proceeding with work.
8. The Contractor shall immediately notify the Engineer of Record of any condition which in their opinion might endanger the stability of the structure or cause distress of the structure.
9. The Contractor shall provide temporary bracing and shoring for all structural members as required for structural stability of the structure during all phases of construction.
10. All work shall conform to the best practice prevailing in the various trades comprising work. The Contractor shall be responsible for coordinating the work of all trades.
11. These Construction Documents represent the finished structure, and do not indicate the method of construction. The Contractor shall supervise and direct the work and shall be solely responsible for construction means, methods, techniques, sequences and procedures.
12. The Contractor shall take all steps necessary to ensure proper alignment of the structure after the installation of all structural and finish materials. This shall include any necessary preloading of the structure to determine final position of the completed work.
13. These notes, details, drawings and Specifications (Construction Documents) do not carry necessary provisions for construction safety. These documents and all phases of construction are to be governed, at all times, by applicable provisions of the current California Occupational Safety and Health Act.
14. Where any conflict occurs between the requirements of federal, state and local laws, codes, ordinances, rules and regulations, the most stringent shall govern.
15. Inspection and approval for shops used for fabrication of structural load bearing members, components, materials or assemblies shall conform to CBC Section 1704.2.5.
    A. Labeling (as required or specified) shall be provided in accordance with CBC Section 1703.5.
    B. Evaluation and follow-up inspection services (as required or specified), shall conform to CBC Section 1703.6.
16. The Contractor shall refer to the Specifications for information not covered by these drawings and General Notes.
17. Observation visits to the project site by field representatives of the Engineer of Record (support services) shall not include inspections of safety or protective measures, nor construction procedures, techniques or methods. Any support services performed by Engineer of Record during any phase of construction, shall be distinguished from continuous and detailed inspection services (as required by any regulating governmental agency, e.g. the Authority Having Jurisdiction) provided by others. These support services, whether of material or work, are performed solely for the purpose of assisting in quality control and in achieving conformance with contract documents, but do not guarantee Contractor's performance and shall not be construed as supervision of construction.
18. Provide openings and supports as required per typical details and notes for mechanical, plumbing, and electrical equipment, vents, ducts, piping, etc. All mechanical, plumbing and electrical equipment shall be properly braced against lateral forces.
19. Refer to drawings by other disciplines to coordinate with Structural Drawings. Any discrepancy between these drawings shall be referred to the Architect or Engineer of Record for clarification prior to the start of construction.
20. Written dimensions shall have precedence over scaled dimensions.
21. Drawings (notes, schedules, details and plans) shall have precedence over Structural Calculations.
22. In the event that certain features of the construction are not fully shown on the drawings or called for in the General Notes or Specifications, their construction shall be of the same character as for similar conditions that are shown or called for.
23. The Contractor shall have a copy of the Project Geotechincal Investigation on the job site.
24. ASTM designation and all standards refer to the latest amendments.
25. These structural Construction Documents shall not be modified without prior written approval of the Engineer of Record.
26. Only structural working drawings approved by the Authority Having Jurisdiction are permitted to be used for construction on this project. All other drawings or documents are obsolete and are not permitted on the job site, nor shall they be used for any construction purposes. Contractors using unapproved drawings or documents are solely responsible for all work not performed in accordance with the "approved" drawings.

SHOP DRAWING AND CONTRACTOR SUBMITTAL REVIEW

1. Shop Drawings or Contractor Submittals should be provided for the fabrication (or proportioning) of the following (but not limited to) components or elements.
   A. Structural Steel
   B. Structural Aluminum
   C. Substitute or alternate materials
2. The Contractor shall be responsible for the production of Shop Drawings or Contractor Submittals, the distribution of documents to the Engineer of Record for review, incorporation of any noted revisions made by the Engineer of Record into the documents, and final approval.
3. Shop drawings shall not be a reproduction of structural drawing sheets.
4. When the Contractor submits shop drawings or other submittals to the Engineer of Record for review, submittal package shall contain sufficient copies that the Engineer of Record may retain a complete copy of submittal package.
5. The Contractor shall allow sufficient time for the Engineer of Record to thoroughly review submittal package (10 working days, minimum).
6. Review of Shop Drawings or Contractor Submittal by Engineer of Record does not in any way constitute approval of submittal package. Engineer of Record's review is for general conformance with the design concept and contract documents. Review shall not be construed as relieving the Contractor from compliance with the contract documents.

STRUCTURAL STEEL AND WELDING

1. All structural steel construction shall conform to AISC 360-16 and AISC 341-16.
   A. All structural steel shall be be fabricated in an approved fabrication shop. Inspection and approval of fabricaiton shops shall conform to CBC Section 1704.2.5.
2. Special Inspection shall be provided for all structural steel and welding, in accordance with CBC Chapter 17.
3. All structural steel shall be fabricated, erected and welded in accordance with AISC Specifications for Structural Steel Buildings (AISC 360-16) and Code of Standard Practice for Steel Buildings and Bridges (AISC 303-16).
4. No field welding permitted, unless specifically noted otherwise.
5. No holes other than those specifically detailed shall be allowed through structural steel members. Burning of holes is not permitted.
6. All welding shall conform to AWS D1.1 and D1.8 specifications for welding. (E-70XX Electrodes).
7. All steel shall be hot dipped galvanized.

ALUMINUM FRAMING

1. All beams and/or posts and accessories shall be of the type, size, gauge and spacing shown on the drawings and shall be manufactured by coast aluminum or approved equal.
2. All aluminum construction shall conform to the following:

Aluminum Shape	ASTM Specification
All Shapes	6061-T6
Aluminum Filler Material	
All Thicknesses	5356, 5556
¼" or Less	4043

3. All framing components shall be cut squarely for attachment to perpendicular members, or as required for an angular fit against abutting members.
4. All components shall be securely fastened together.
   A. Fastening shall be with 18-8 stainless steel bolts and welds.
   B. Bolt and weld size, type, location and spacing shall be as detailed on these Construction Drawings.
5. Welding shall comply with current 'AWS' practices.
6. Components shall be held firmly in position until properly fastened.

STRUCTURAL DESIGN VALUES

All values reported are unfactored and strength level, unless noted otherwise

Earthquake Design Data	Value
Risk Category	II
Importance Factor, I_e	1.25
Mapped Spectral Response Accelerations	S_s= 1.069 g S_1= 0.394 g
Site Class	D - Default
Spectral Response Coefficients	S_{ds}= 0.856 g S_{d1}= 0.497 g
Seismic Design Category	D
Geotechnical Design Data	**Value**
Geotechnical Basis: 2019 California Building Code, Chapter 18	
Allowable Soil Bearing Pressure (DL + LL)	1,500 psf
Design Passive Pressure, P_p	350 pcf
Design Coefficient of Friction, f_1	N/A

ABBREVIATIONS

A.B.	Anchor Bolt
ABV.	Above
ACI	American Concrete Institute
ADD'L	Additional
ADJ.	Adjacent
AHJ	Authority Having Jurisdiction
AISC	American Institute of Steel Construction
AITC	American Institute of Timber Construction
AOR	Architect of Record
APA	American Plywood Association
APPROX.	Approximate(ly)
ASCE	American Society of Civil Engineers
ARCH.	Architect, Architecture
ASTM	American Society of Testing and Materials
ATR	All Thread Rod
AWS	American Welding Society
BLDG.	Building
BLK.	Block
BLKD.	Blocked
BLK'G	Blocking
BM.	Beam
B.O.	Bottom of _____
BOT.	Bottom
BRG.	Bearing
b/t	Between
CAC	California Administrative Code
CANT.	Cantilever
CBC	California Building Code
CIP	Cast-in-place
CJ	Control Joint
CJP	Complete Joint Penetration
℄	Centerline
CLG.	Ceiling
CLR.	Clear
CMU	Concrete Masonry Unit
COL.	Column
CONC.	Concrete
CONN.	Connection
CONST.	Construction
CONT.	Continue, Continuous
CTR.	Center
CSK.	Countersink
Ø	Diameter
¢	Penny
DBL.	Double
DCW	Demand Critical Weld
DET.	Detail
DEMO	Demolition
DF	Douglas Fir
DIAG.	Diagonal
DL	Dead Load
DSA	Division of State Architect
DWGS.	Drawings
EA.	Each
E.F.	Each Face
ELEC.	Electric, Electrical
ELEV.	Elevation
EMBED.	Embedded, Embedment
E.N.	Edge Nailing
EOR	Engineer of Record
EQ.	Equal
EQUIP.	Equipment
E.S.	Each Side
E.W.	Each Way
(E)	Existing
EXP.	Expansion
EXT.	Exterior
FAB.	Fabricated
FDN.	Foundation
F.F.	Finish floor
FLR.	Floor
F.O.	Face of _____
FRMG.	Framing
FT.	Foot,Feet
FTG.	Footing
GA.	Gauge
GALV.	Galvanized
GEOR	Geotechnical Engineer of Record
GLB	Glued-Laminated Beam
GYP. BD.	Gypsum Board
HDR.	Header
HD.	Holdown
HORIZ.	Horizontal
HSS	Hollow Steel Section
HT.	Height
IBC	International Building Code
ICC	International Code Council
ICF	Insulated Concrete Form
ID	Inside Diameter
IN.	Inch, Inches
INT.	Interior
JST.	Joist
ksi	Kips per Square Inch
LL	Live Load
LW	Lightweight
LSL	Laminated Strand Lumber
LVL	Laminated Veneer Lumber
MAX.	Maximum
MB	Machine Bolt
MBM	Metal Building Manufacturer
MECH.	Mechanical
MSE	Mechanically Stabilized Earth
MFR.	Manufactured, Manufacturer
MIN.	Minimum
MPH	Miles per Hour
MTL.	Metal
(N)	New
NDS	National Design Specification
N.T.S.	Not to Scale
o.c.	On Center
o/	Over
OD	Outside Diameter
OSB	Oriented Strand Board
OSHPD	Office of State Health Planning and Development
OWSJ	Open Web Steel Joist
PEN.	Penetration
PL.	Plate
PLYWD.	Plywood
PJP	Partial Joint Penetration
psi	Pounds per Square Inch
PSF	Pounds per Square Foot
PSL	Parallel Strand Lumber (Paralam)
PEMB	Pre-Engineered Metal Building
PERF.	Perforated
PTDF	Pressure Treated Douglas Fir
PW	Puddle Weld
Q.A.	Quality Assurance
Q.C.	Quality Control
RBS	Reduced Beam Section
RDWD	Redwood
REBAR	Reinforcing Bar
REINF.	Reinforcement
RET.	Retaining
REQ'D	Required
S.F.	Square Feet
SHT.	Sheet
SHT'G	Sheathing
SIM.	Similar
SIP	Structural Insulated Panel
SJI	Steel Joist Institute
SLRS	Seismic Load Resisting System
SMS	Sheet Metal Screw
SQ.	Square
SS	Select Structural
STAGG'D	Staggered
STD.	Standard
STL.	Steel
SW	Shearwall
SEOR	Structural Engineer of Record
T&B	Top and bottom
T&G	Tongue and Groove
THR'D	Threaded
T.O.	Top of _____
TRL.	Triple
TYP.	Typical
UNBLKD.	Unblocked
U.N.O.	Unless Noted Otherwise
URM	Unreinforced Masonry
VERT.	Vertical
VIF	Verify in Field
w/	With
w/c	Water/Cement Ratio
WD.	Wood
W.P.	Working Point
W.S.M.F.	Welded Steel Moment Frame
WSS	Welded Steel Stud
WT.	Weight
WWM	Welded Wire Mesh

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ARROYO GRANDE, CA 93421 (805) 904-6530

CITY OF SAN LUIS OBISPO

PROJECT TITLE:
CITY OF SAN LUIS OBISPO
WTP OZONE CONTAINMENT IMPROVEMENT PROJECT

SHEET TITLE:
STRUCTURAL NOTES

REGISTERED PROFESSIONAL ENGINEER
MICHAEL E. PASSOW
No. S-6406
STRUCTURAL
STATE OF CALIFORNIA

DATE SIGNED:
06.11.2024

DESIGNED BY:	CLK
DRAWN BY:	CLK
CHECKED BY:	MEP
APPROVED BY:	MEP
SCALE:	N/A
DATE:	JUNE 2024
CITY SPECIFICATION NO.	2001026
PLAN FILE NO. / LOCATION	
SHEET NO.	S-001 8 of 13

SPECIAL INSPECTION

GENERAL NOTES

1. All Special Inspection shall be provided in accordance with CBC Section 1704 and 1705.
2. Where Special Inspection is required, all inspection or testing shall be provided by an "approved agency" in accordance with CBC Section 1702.1, 1703.1 and 1704.1.
3. Special Inspectors shall keep records of inspections. The Special Inspector shall furnish inspection reports to the Authority Having Jurisdiction, and to the Architect or Engineer of Record. 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. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Authority Having Jurisdiction and to the Architect or Engineer of Record prior to the completion of that phase of work. A final report documenting required Special Inspections and correction of any discrepancies noted in the inspections shall be submitted at a point in time agreed upon by the permit applicant and the Authority Having Jurisdiction prior to the start of work.
4. Special Inspectors shall be approved by local Authority Having Jurisdiction in accordance with CBC Section 1704.2.1.
5. Local Authority Having Jurisdictions may require Special Inspection for "Special Cases" in accordance with CBC Section 1705.1.1
6. Contractor's responsibility: Each contractor responsible for the construction of a Main Lateral-Force-Resisting System, listed in the Statement of Special Inspection shall submit a written statement of responsibility to the Authority Having Jurisdiction and the owner prior to the commencement of work on the system or component. The contractor's statement of responsibility shall contain the following:
   A. Acknowledgement of awareness of the special requirements contained in the statement of special inspections;
   B. Acknowledgement that control will be exercised to obtain conformance with the construction documents approved by the Authority Having Jurisdiction;
   C. Procedures for exercised control within the contractor's organization, the method and frequency of reporting and the distribution of the reports; and
   D. Identification and qualifications of the person(s) exercising such control and their position(s) in the organization.
7. Refer to Special Inspection requirements by other disciplines not included herein.

SOILS[a]

Verification and Inspection	Continuous	Periodic
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.		✓
2. Verify excavations are extended to proper depth and have reached proper material.		✓
3. Perform classification and testing of compacted fill materials.		✓
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	✓	[b]
5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.		✓

Notes: Soils
a. CBC Section 1705.6 and Table 1705.6
b. With the approval of the Authority Having Jurisdiction and the recommendation of the Geotechnical Engineer of Record, Special Inspection of grading operations may be periodic per CBC Section 1704.2, Exception 1.

SPECIAL CASES

Verification and Inspection	Continuous	Periodic
Adhesive anchors (Epoxy)		
1. Inspection of anchors installed in hardened concrete. Installed in horizontally or upwardly inclined orientations to resist sustained tension loads. (Concrete shall be cured for a minimum of 21 days)	✓	
2. All other installations of adhesive anchors.		✓
Mechanical anchors		
1. Inspection of anchors installed in hardened concrete.		✓

ALUMINUM CONSTRUCTION

Verification and Inspection	Continuous	Periodic
Required verification and inspection of steel construction		
1. Material verification of structural steel, cold-formed steel deck, high-strength bolts, nuts and washers:		
a. For structural steel, identification markings to conform to AISC 360, or ASTM Standards Specified in approved Construction Documents. Manufacturer's certificate of compliance required.		✓
2. Material verification of structural steel or cold-form steel deck:		
a. Identification markings to conform to ASTM standards specified in the approved construction documents.		✓
b. Manufacturer's certified test reports.		✓
3. Inspection of high-strength bolting:		
a. Snug-tight joints		✓
b. Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist off bolt or direct tension indicator methods of installation		✓
c. Pretensioned and slip-critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation	✓	
4. Material verification of weld filler materials:		
a. Identification markings to conform to AWS specification in the approved Construction Documents		✓
b. Manufacturer's certificate of compliance required		✓
5. Inspection of welding:		
a. Structural steel and cold formed steel deck:		
1) Complete and partial joint penetration groove welds	✓	
2) Multi-pass fillet welds	✓	
3) Single-pass fillet welds > 5/16"	✓	
4) Plug and slot welds	✓	
5) Single-pass fillet welds < 5/16"		✓
6) Floor and roof deck welds[c]		✓
6. Inspection of steel frame joint details for compliance:		
a. Details such as bracing and stiffening		✓
b. Member locations		✓
c. Application of joint details at each connection		✓

ALUMINUM CONSTRUCTION, CONTINUED

Verification and Inspection	Continuous	Periodic
Inspection tasks prior to welding		
1. Welding procedure specifications (WSPs) available	✓	
2. Manufacturer certifications for welding consumables available	✓	
3. Material identification (type/grade)		✓
4. Welder identification system[e]		✓
5. Fit-up of groove welds (including joint geometry) Joint preparation, dimensions, cleanliness, tacking, backing type and fit		✓
6. Configuration and finish of access holes		✓
7. Fit-up of fillet welds Dimensions, cleanliness, tacking		✓
8. Check welding equipment		
Inspection tasks during welding		
1. Use of qualified welders		✓
2. Control and handling of welding consumables Packaging, exposure control		✓
3. No welding over cracked tack welds		✓
4. Environmental conditions. Wind speed within limits, precipitation and temperature		✓
5. WPS followed Settings on welding equipment, travel speed, selected welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained min./max.),proper position (F, V, H, OH)		✓
6. Welding techniques Interpass and final cleaning, each pass within profile limitations		✓
Inspection tasks after welding		
1. Welds cleaned		✓
2. Size, length and location of welds	✓	
3. Welds meet visual acceptance criteria Crack prohibition, weld/base-metal fusion, crater cross section, weld profiles, weld size, undercut, porosity	✓	
4. Arc strikes	✓	
5. k-Area[f]	✓	
6. Backing removed and weld tabs removed (if required)	✓	
7. Repair activies	✓	
8 Document acceptance or rejection of welded joint or member	✓	

STEEL CONSTRUCTION[ab]

Verification and Inspection	Continuous	Periodic
Required verification and inspection of steel construction		
1. Material verification of structural steel, cold-formed steel deck, high-strength bolts, nuts and washers:		
a. For structural steel, identification markings to conform to AISC 360, or ASTM Standards Specified in approved Construction Documents. Manufacturer's certificate of compliance required.		✓
2. Material verification of structural steel or cold-form steel deck:		
a. Identification markings to conform to ASTM standards specified in the approved construction documents.		✓
b. Manufacturer's certified test reports.		✓
3. Inspection of high-strength bolting:		
a. Snug-tight joints		✓
b. Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist off bolt or direct tension indicator methods of installation		✓
c. Pretensioned and slip-critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation	✓	
4. Material verification of weld filler materials:		
a. Identification markings to conform to AWS specification in the approved Construction Documents		✓
b. Manufacturer's certificate of compliance required		✓
5. Inspection of welding:		
a. Structural steel and cold formed steel deck:		
1) Complete and partial joint penetration groove welds	✓	
2) Multi-pass fillet welds	✓	
3) Single-pass fillet welds > 5/16"	✓	
4) Plug and slot welds	✓	
5) Single-pass fillet welds ≤ 5/16"		✓
6) Floor and roof deck welds[c]		✓
b. Reinforcing steel:[d]		
1) Verification of weldability of reinforcing steel other than ASTM A706.		✓
2) Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement.	✓	
3) Shear reinforcement	✓	
4) Other reinforcing steel		✓
6. Inspection of steel frame joint details for compliance:		
a. Details such as bracing and stiffening		✓
b. Member locations		✓
c. Application of joint details at each connection		✓
Inspection tasks prior to welding		
1. Welding procedure specifications (WSPs) available	✓	
2. Manufacturer certifications for welding consumables available	✓	
3. Material identification (type/grade)		✓
4. Welder identification system[e]		✓

STEEL CONSTRUCTION[ab]

Verification and Inspection	Continuous	Periodic
Required verification and inspection of steel construction		
Inspection tasks prior to welding (continued)		
5. Fit-up of groove welds (including joint geometry) Joint preparation, dimensions, cleanliness, tacking, backing type and fit		✓
6. Configuration and finish of access holes		✓
7. Fit-up of fillet welds Dimensions, cleanliness, tacking		✓
8. Check welding equipment		
Inspection tasks during welding		
1. Use of qualified welders		✓
2. Control and handling of welding consumables Packaging, exposure control		✓
3. No welding over cracked tack welds		✓
4. Environmental conditions Wind speed within limits, precipitation and temperature		✓
5. WPS followed Settings on welding equipment, travel speed, selected welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained min./max.),proper position (F, V, H, OH)		✓
6. Welding techniques Interpass and final cleaning, each pass within profile limitations		✓

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CITY OF SAN LUIS OBISPO

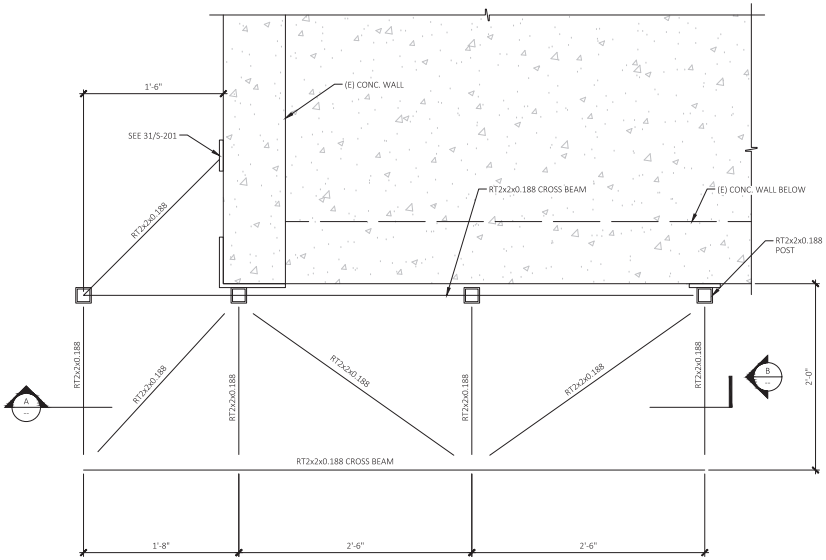
PROJECT TITLE: CITY OF SAN LUIS OBISPO
WTP OZONE CONTAINMENT IMPROVEMENT PROJECT

SHEET TITLE: LIST OF SPECIAL INSPECTIONS

REGISTERED PROFESSIONAL ENGINEER
MICHAEL E. PARDUN
C56408
STRUCTURAL
STATE OF CALIFORNIA
DATE SIGNED: 06.11.2024

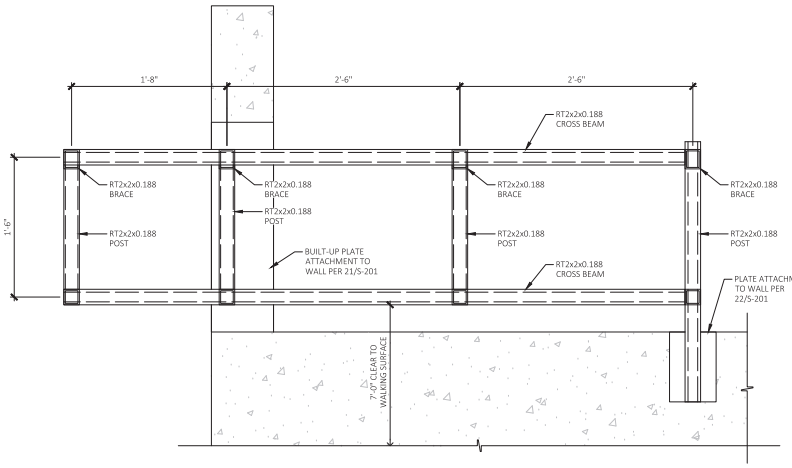
DESIGNED BY:	CLK
DRAWN BY:	CLK
CHECKED BY:	MEP
APPROVED BY:	MEP
SCALE:	N/A
DATE:	JUNE 2024
CITY SPECIFICATION NO.	2001026
PLAN FILE NO. / LOCATION	
SHEET NO.	S-002

9 of 13



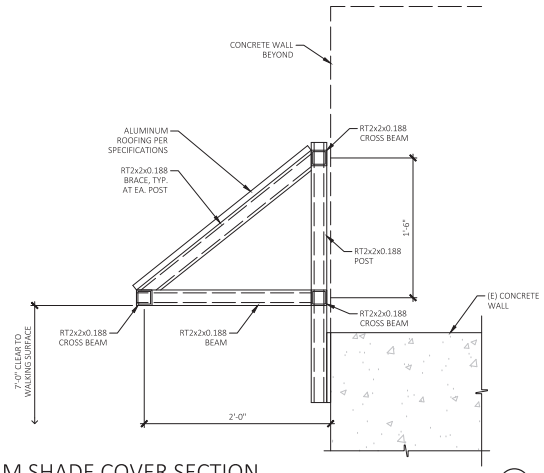
ALUMINUM SHADE COVER FRAMING PLAN

SCALE: 1-1/2" = 1'-0" (VERIFY ALL DIMENSIONS WITH AND EXISTING CONDITIONS)



ALUMINUM SHADE COVER SECTION

SCALE: 1-1/2" = 1'-0" (VERIFY ALL DIMENSIONS WITH AND EXISTING CONDITIONS) A



ALUMINUM SHADE COVER SECTION

1-1/2" = 1'-0" (VERIFY ALL DIMENSIONS WITH EXISTING CONDITIONS) B

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

SSG Structural Engineers, LLP
805.439.2110 ssgse.com
811 Orcutton Way, Suite 240, San Luis Obispo, CA 93401
8405 N. Fresno Street, Suite 120, Fresno, CA 93720

mkn
P.O. BOX 1604
ARROYO GRANDE, CA 93421 (805) 904-6530

CITY OF SAN LUIS OBISPO

WTP OZONE CONTAINMENT IMPROVEMENT PROJECT

PROJECT TITLE

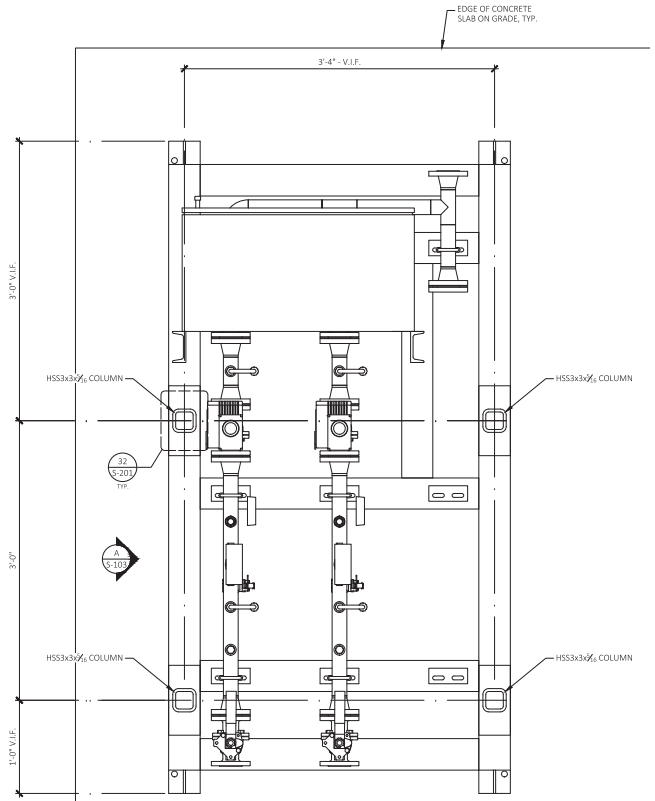
EQUIPMENT AWNING FRAMING PLAN AND SECTIONS

SHEET TITLE

REGISTERED PROFESSIONAL ENGINEER MICHAEL E. PASQUA No. 6406 STRUCTURAL STATE OF CALIFORNIA

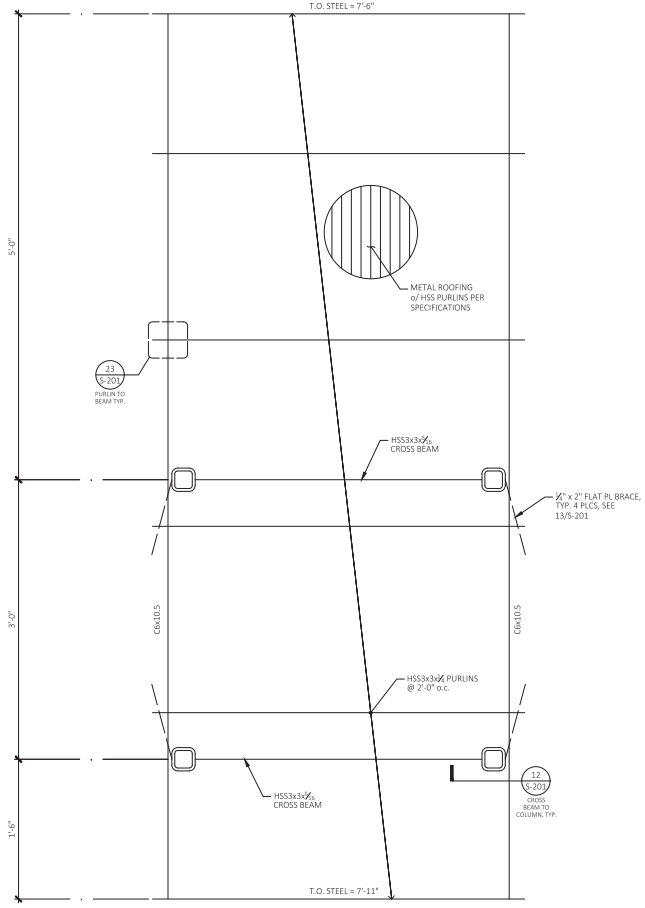
DATE SIGNED: 06.11.2024

DESIGNED BY:	CLK
DRAWN BY:	CLK
CHECKED BY:	MEP
APPROVED BY:	MEP
SCALE:	N/A
DATE:	JUNE 2024
CITY SPECIFICATION NO.	2001026
PLAN FILE NO. / LOCATION	
SHEET NO.	S-101
	10 of 13



SHADE COVER FOUNDATION PLAN

SCALE: 1-1/2" = 1'-0" (VERIFY ALL DIMENSIONS WITH EXISTING CONDITIONS)



SHADE COVER FRAMING PLAN

SCALE: 1-1/2" = 1'-0" (VERIFY ALL DIMENSIONS WITH EXISTING CONDITIONS)

NOTE: ALL STEEL SHALL BE HOT DIPPED GALVANIZED.

0 1/2 1

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CITY OF SAN LUIS OBISPO

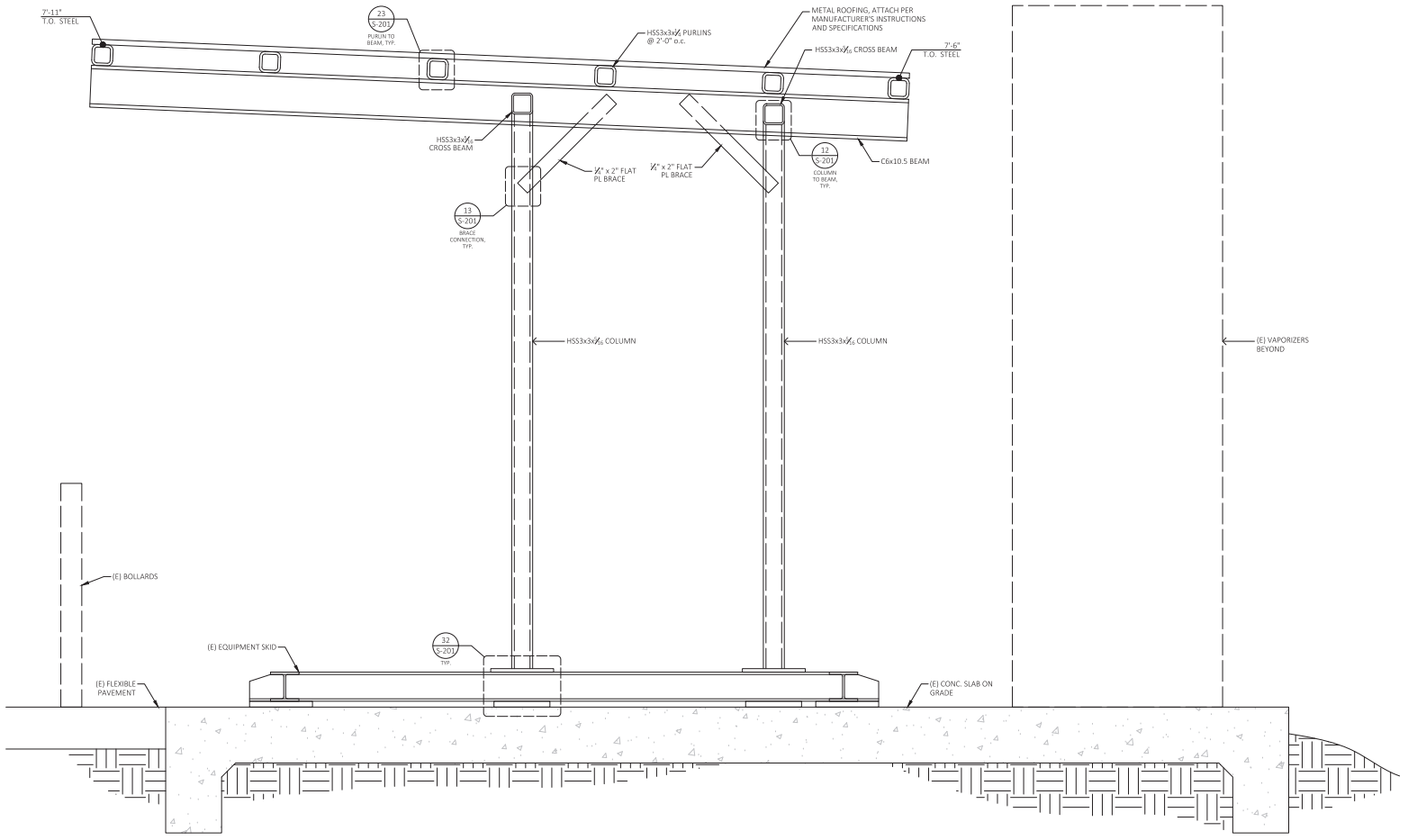
PROJECT TITLE: WTP OZONE CONTAINMENT IMPROVEMENT PROJECT

SHEET TITLE: EQUIPMENT SHADE COVER FOUNDATION AND FRAMING PLAN

REGISTERED PROFESSIONAL ENGINEER MICHAEL E. PASQUA C 56406 STRUCTURAL STATE OF CALIFORNIA

DATE SIGNED: 06.11.2024

DESIGNED BY:	CLK
DRAWN BY:	CLK
CHECKED BY:	MEP
APPROVED BY:	MEP
SCALE:	N/A
DATE:	JUNE 2024
CITY SPECIFICATION NO.	2001026
PLAN FILE NO. / LOCATION	
SHEET NO.	S-102
	11 of 13



SHADE COVER ELEVATION VIEW (A)

SCALE: 1-1/2" = 1'-0" (VERIFY ALL DIMENSIONS WITH EXISTING CONDITIONS)

0 1/2 1

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P.O. BOX 1604
ARROYO GRANDE, CA 93421 (805) 904-6530

CITY OF SAN LUIS OBISPO

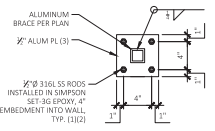
PROJECT TITLE: WTP OZONE CONTAINMENT IMPROVEMENT PROJECT

SHEET TITLE: EQUIPMENT SHADE COVER SECTION VIEW

REGISTERED PROFESSIONAL ENGINEER MICHAEL E. PASQUA No. S6406 STRUCTURAL STATE OF CALIFORNIA

DATE SIGNED: 06.11.2024

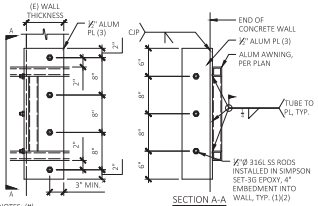
DESIGNED BY:	CLK
DRAWN BY:	CLK
CHECKED BY:	MEP
APPROVED BY:	MEP
SCALE:	N/A
DATE:	JUNE 2024
CITY SPECIFICATION NO.	2001026
PLAN FILE NO. / LOCATION	
SHEET NO.	S-103
	12 of 13



NOTES: (#)
1. INSTALL IN CONFORMANCE WITH ICC ESR 4057
2. PROVIDE NEOPRENE WASHERS BETWEEN STAINLESS STEEL NUT AND ALUMINUM PLATE CONTACT
3. SOLVENT OR STEAM CLEAN CONCRETE UNDER ALUMINUM PLATES PER SSPC SP-1. APPLY THREE OR MORE COATS OF DEVOE BAR-RUST 233H, OR EQUAL; 30 MILS TOTAL. MAXIMUM THICKNESS OF AN INDIVIDUAL COATING SHALL NOT EXCEED THE MANUFACTURER'S RECOMMENDATION.

ALUM BRACE TO WALL 31

N.T.S.



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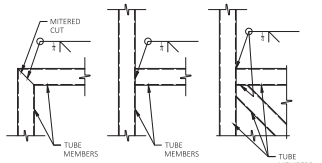
BUILT-UP PLATE ATTACHMENT 21

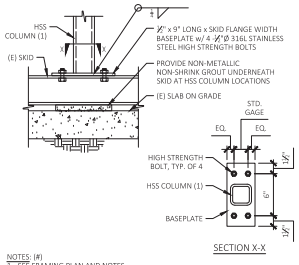
N.T.S.



NOTES: (#)
1. SEE FRAMING PLAN AND NOTES
2. GRIND ALL WELDS SMOOTH

TYPICAL WELDS AT ALUM FRAME 11

N.T.S.



NOTES: (#)
1. SEE FRAMING PLAN AND NOTES

HSS COLUMN TO (E) SKID 32

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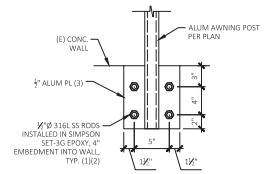

NOTES: (#)
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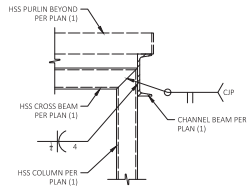
ALUM AWNING POST TO WALL 22

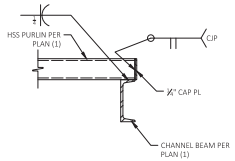
N.T.S.



NOTES: (#)
1. SEE FRAMING PLAN AND NOTES

STEEL FRAMING CONNECTION 12

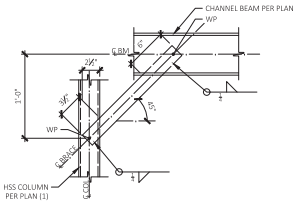
N.T.S.



NOTES: (#)
1. SEE FRAMING PLAN AND NOTES

STEEL FRAMING CONNECTION 23

N.T.S.



NOTES: (#)
1. SEE FRAMING PLAN AND NOTES

STEEL BRACE CONNECTION 13

N.T.S.

0 1/2 1
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mkn
P.O. BOX 1604
ARROYO GRANDE, CA 93421 (805) 904-6530

CITY OF SAN LUIS OBISPO
WTP OZONE CONTAINMENT IMPROVEMENT PROJECT
PROJECT TITLE

EQUIPMENT AWNING FRAMING PLAN AND SECTIONS
SHEET TITLE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL E. PARSONS
No. S-6406
STRUCTURAL
STATE OF CALIFORNIA
DATE SIGNED: 06.11.2024

DESIGNED BY:	CLK
DRAWN BY:	CLK
CHECKED BY:	MEP
APPROVED BY:	MEP
SCALE:	N/A
DATE:	JUNE 2024
CITY SPECIFICATION NO.	2001026
PLAN FILE NO. / LOCATION	
SHEET NO.	S-201
	13 of 13

DRAFT
SPECIAL PROVISIONS

FOR

CITY OF SAN LUIS OBISPO

WTP Ozone Containment Improvement Project

Specification 2001026

June 2024

PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

919 Palm Street
San Luis Obispo, CA 93401
(805) 781-7200

WTP Ozone Containment Improvement Project

Specification No. 2001026

Approval Date: July 16, 2024

June 18, 2024

<<Signature Date>>

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NOTICE TO BIDDERS
BID SUBMISSION

Sealed bids will be received by the City of San Luis Obispo at the Public Works Administration Office located at 919 Palm Street, San Luis Obispo, California 93401, until

XXX. on XXX

at which time they will be publicly opened and read aloud. Submit bid in a sealed envelope plainly marked:

WTP Ozone Containment Improvement Project

Any bid received after the time and date specified will not be considered and will be returned to the bidder unopened. Bids received by Fax or Email will not be considered.

By submission of bid you agree to comply with all instructions and requirements in this notice and the contract documents.

All bids must be submitted on the Bid Item List form(s) provided and submitted with all other Bid Forms included in these Special Provisions.

Each bid must be accompanied by either a:

1. certified check
2. cashier's check
3. bidder's bond

made payable to the City of San Luis Obispo for an amount equal to ten percent of the bid amount as a guaranty. Guaranty will be forfeited to the City San Luis Obispo if the bidder, to whom the contract is awarded, fails to enter into the contract.

The City of San Luis Obispo reserves the right to accept or reject any or all bids or waive any informality in a bid.

All bids are to be compared based on the City Engineer's estimate of the quantities of work to be done, as shown on the Bid Item List.

Bids will only be accepted from bidders that are licensed in compliance with the provisions of Chapter 9, Division III of Business and Professions Code.

The award of the contract, if awarded, will be to the lowest responsive bid submitted by a responsible contractor whose bid complies with the requirements prescribed. If the contract is awarded, the contract will be awarded within 60 calendar days after the opening of the bids.

Failure to raise defects in the notice to bidders or bid forms prior to bid opening constitute a waiver of those defects.

BID DOCUMENTS

A copy of the plans and special provisions may be downloaded, free of charge, from the City's website at:

www.slocity.org/government/department-directory/public-works/public-works-bids-proposals

Standard Specifications and Engineering Standards referenced in the Special Provisions may be downloaded, free of charge, from the City's website at:

www.slocity.org/government/department-directory/public-works/documents-online/construction-documents

You are responsible to obtain all issued addenda prior to bid opening. Addenda will be available to download at the City's website listed above or at the office of the City Engineer.

Contact the project manager, <<INSERT NAME>> at <<INSERT PHONE NUMBER>> or the Public Works Department at (805) 781-7200 prior to bid opening to verify the number of addenda issued.

You are responsible to verify your contact information is correct on the plan holders list located on the City's website at:

www.slocity.org/government/department-directory/public-works/public-works-bids-proposals.

PROJECT INFORMATION

In general, the project includes installation of a drainage manhole, construction of fabricated shade structures, and concrete flatwork.

The project estimated construction cost is $187,000

Contract time is established as 40 working days.

The fixed liquidated damages amount is established at $500 per day for failure to complete the work within the contract time.

In compliance with section 1773 of the Labor Code, the State of California Department of Industrial Relations has established prevailing hourly wage rates for each type of workman. Current wage rates may be obtained from the Division of Labor at:

https://www.dir.ca.gov/oprl/DPreWageDetermination.htm

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

There will be a walkthrough on XXXXXXXXXXXXXX . Bidders should meet where at time.

[Mandatory walkthroughs must be scheduled at least 6 calendar days after the bid announcement]

QUALIFICATIONS

You must possess a valid Class A Contractor's License at the time of the bid opening.

You and any subcontractors required to pay prevailing wage must be registered with the Department of Industrial Relations pursuant to Section 1725.5 of the Labor Code.

You must have experience constructing projects similar to the work specified for this project. Provide three similar reference projects completed as the prime contractor.

- All referenced projects must have been completed within the last five years from this project's bid opening date.
- All referenced projects must have been completed under contract with a city, county, state or federal government agency as the prime contractor.
- At least one referenced project must have been performed within an active water or wastewater treatment plant.

Failure to provide reference projects as specified in this section and as required on the qualification form is cause to reject a bid as being non-responsive.

The City reserves the right to reject any bid based on non-responsiveness if a bidder fails to provide a bid that complies with all bidding instructions.

The City reserves the right to reject a responsive bid based on the non-responsibility of the bidder if the Director of Public Works or Designee finds, after providing notice and a hearing to the bidder, that the bidder lacks the

1. knowledge
2. experience,
3. or is otherwise not responsible

as defined in Section 3.24 of the San Luis Obispo Municipal Code to complete the project in the best interest of the City.

Rejected bidders may appeal this determination. Appeal must comply with the requirements in this Notice to Bidders.

It is the City of San Luis Obispo's intent to award the contract to the lowest responsive bid submitted by a responsible bidder. If in the bidder's opinion the contract has been or may be improperly awarded, the bidder may protest the contract award.

Protests must be filed no later than five working days after either:

1. bid opening date
2. notification of rejected bid.

Protest must be in writing and received by the project manager located at:

919 Palm Street
San Luis Obispo, CA 93401.

Valid protests must contain the following information:

1. the reasons for the protest
2. any supporting documentation
3. the ruling expected by the City to remedy the protest.

Any protest not containing all required information will be deemed invalid and rejected.

The City will consider additional documentation or other supporting information regarding the protest if submitted in compliance to the specified time limits. Anything submitted after the specified time limit will be rejected and not be considered.

The Director of Public Works or Designee may request additional information to be submitted within three days of the request, unless otherwise specified, and will notify the protester of ruling within ten days of determination.

If the protester is not satisfied with ruling, the protester may appeal the ruling to the City Council in compliance with Chapter 1.20 of the City of San Luis Obispo Municipal Code.

Pursuant to the Public Records Act (Government Code, § 6250, et seq.), the City will make public records available upon request.

AWARD

The lowest bidder will be determined using the TOTAL PROJECT BID.

As a condition to executing a contract with the City, two bonds each equal to one hundred percent of the total contract price are required in compliance with Section 3-1.05 of the Standard Specifications.

You may substitute securities for moneys withheld under the contract in compliance with the provisions of the Public Contract Code, Section 10263.

ACCOMMODATION

If any accommodations are needed to participate in the bid process, please contact Argelia Chang at (805) 781-7200 or by Telecommunications Device for the Deaf at (805) 781-7107. Requests should be made as early as possible in the bidding process to allow time for accommodation.

BID FORMS

All bid forms must be completed and submitted with your bid. Failure to submit these forms and required bid bond is cause to reject the bid as nonresponsive. Staple all bid forms together.

THE UNDERSIGNED, agrees that they have carefully examined:

1. the location of the proposed work
2. the plans and specifications
3. read the accompanying instructions to bidders

and propose to furnish all:

4. materials
5. labor

to complete all the required work satisfactorily in compliance with

6. plans
7. specifications
8. special provisions

for the prices set forth in the bid item list:

BID ITEM LIST FOR WTP OZONE CONTAINMENT IMPROVEMENT PROJECT, SPECIFICATION NO. 2001026

Item No.	TS or SS(1)	Item Description	Unit of Measure	Estimated Quantity	Item Price (in figures)	Total (in figures)
1		General Conditions/Mobilization	LS	1		
2		Manhole	LS	1		
3		Pavement and Curb Repair	LS	1		
4		Duck Bill Valves	LS	1		
5		Sidewalk Extension	LS	1		
6		Equipment Awning – Ozone Contactor	LS	1		
7		Equipment Shade Structure – Vaporizer Switching Manifold	LS	1		
8		Valve Labeling	LS	1		
9		Ozone Contactor Modifications	LS	1		
10		Analytical Technology Model D16 Ozone Meter	LS	1		
11		Comply with OSHA	LS	1		
Bid Total (or Base Bid)					**$**	

(1) refers to section in the Standard Specifications, with modifications in the Special Provisions, that describe required work.

LIST OF SUBCONTRACTORS

Pursuant to Section 4100 of the Public Contracts Code and section 2-1.33C of the standard specifications, the Bidder is required to furnish the following information for each Subcontractor performing more than 1/2 percent (0.5%) of the total base bid. Do not list alternative subcontractors for the same work. Subcontracting must not total more than fifty percent (50%) of the submitted bid except as allowed in section 5-1.13 of the standard specifications.

For Streets & Highways projects, subcontractors performing less than ten thousand dollars ($10,000) worth of work need not be mentioned. **Subcontractors required to pay prevailing wage, must be registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 to be listed.**

NOTE: If there are no subcontractors, write "NONE" and submit with bid.

Name Under Which Subcontractor is Licensed	License Number	**DIR Public Works Registration Number**	Address and Phone Number of Office, Mill or Shop	Specific Description of Subcontract	% of Total Base Bid

Attach additional sheets as needed.

PUBLIC CONTRACT CODE SECTION 10285.1 STATEMENT

In compliance with Public Contract Code Section 10285.1 (Chapter 376, Stats. 1985), the bidder hereby declares under penalty of perjury under the laws of the State of California

that the bidder, or any subcontractor to be engaged by the bidder, **has ____, has not ____** been convicted within the preceding three years of any offenses referred to in that section, including any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of any state or federal antitrust law in connection with the bidding upon, award of, or performance of, any public works contract, as defined in Public Contract Code Section 1101, with any public entity, as defined in Public Contract Code Section 1100, including the Regents of the University of California or the Trustees of the California State University. The term "bidder" is understood to include any partner, member, officer, director, responsible managing officer, or responsible managing employee thereof, as referred to in Section 10285.1.

NOTE: The bidder must place a check mark after "has" or "has not" in one of the blank spaces provided. The above Statement is part of the Bid. Signing this Bid on the signature portion constitute signature of this Statement. Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

PUBLIC CONTRACT CODE SECTION 10162 QUESTIONNAIRE

In compliance with Public Contract Code Section 10162, the Bidder must complete, under penalty of perjury, the following questionnaire:

Has the bidder, any officer of the bidder, or any employee of the bidder who has a proprietary interest in the bidder, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a federal, state, or local government project because of a violation of law or a safety regulation?

_____ Yes _____ No

If the answer is yes, attach a letter explaining the circumstances.

PUBLIC CONTRACT CODE SECTION 10232 STATEMENT

In compliance with Public Contract Code Section 10232, you hereby state under penalty of perjury, that no more than one final unappealable finding of contempt of court by a federal court has been issued against you within the immediately preceding two-year period because of your failure to comply with an order of a federal court which orders you to comply with an order of the National Labor Relations Board.

LABOR CODE SECTION 1725.5 STATEMENTS

The bidder has delinquent liability to an employee or the state for any assessment of back wages or related damages, interest, fines, or penalties pursuant to any final judgment, order, or determination by a court or any federal, state, or local administrative agency, including a confirmed arbitration award. Any judgment, order, or determination that is under appeal is excluded, provided that the contractor has secured the payment of any amount eventually found due through a bond or other appropriate means.

_____ Yes _____ No

The bidder is currently debarred under Section 1777.1 or under any other federal or state law providing for the debarment of contractors from public works.

_____ Yes _____ No

NOTE: The above Statements and Questionnaire are part of the Bid. Signing this Bid on the signature portion constitute signature of this Statement and Questionnaire. Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

NON-COLLUSION DECLARATION

I, _____, declare that

I am _____ of_____,

the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone refrained from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

Executed on _____, 20_____, in _____

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

_____

(Signature and Title of Declarant)

(SEAL)

Subscribed and sworn to before me
this _____day of _____, 20_____

_____

Notary Public

Company Name:_____

BIDDER ACKNOWLEDGEMENTS

By signing below, the bidder acknowledges and confirms that this bid is based on the information contained in all contract documents, including the notice to bidders, plans, specifications, special provisions, and addendum number(s) _____. **(Note: You are responsible to verify the number of addenda prior to the bid opening.)**

The undersigned further agrees that in case of default in executing the required contract, with necessary bonds, within eight days, (not including Saturdays, Sundays, and legal holidays), after having received a mailed notice that the contract is ready for signature, the proceeds of the check or bond accompanying his bid will become the property of the City of San Luis Obispo.

Licensed in accordance with an act providing for the registration of contractors, License No._____, Expiration Date _____.

The above statement is made under penalty of perjury, and any bid not containing this information "will be considered non-responsive and will be rejected" by the City.

Signature of Bidder _____

_____
(Print Name and Title of Bidder)

DIR– Public Works Registration No: _____

Business Name (DBA): _____

Owner/Legal Name: _____

Indicate One: ☐Sole-proprietor ☐ Partnership ☐Corporation

List Partners/Corporate Officers: _____
Name Title

_____
Name Title

_____
Name Title

Business Address _____

Street Address _____

Mailing Address _____

City, State, Zip Code _____

Phone Number _____

Fax Number _____

Email Address _____

Date _____

QUALIFICATIONS

Failure to furnish complete reference information **ON THIS FORM**, as specified in this project's Notice to Bidders and indicated below, is cause to reject the bid. Additional information may be attached but is not a substitute for this form.

Reference Number 1

Customer Name & Contact Individual	
Telephone & Email	
Project Name (Site Address):	
Is this similar to the project being bid or was this project within an active water or wastewater treatment plant? Yes □ No □	Describe the services provided and how this project is similar to that which is being bid:
Was this contract for a public agency? Yes □ No □	Date project completed:

Reference Number 2

Customer Name & Contact Individual	
Telephone & Email	
Project Name (Site Address):	
Is this similar to the project being bid or was this project within an active water or wastewater treatment plant? Yes □ No □	Describe the services provided and how this project is similar to that which is being bid:
Was this contract for a public agency? Yes □ No □	Date project completed:

Reference Number 3

Customer Name & Contact Individual	
Telephone & Email	
Project Name (Site Address):	
Is this similar to the project being bid or was this project within an active water or wastewater treatment plant? Yes □ No □	Describe the services provided and how this project is similar to that which is being bid:
Was this contract for a public agency? Yes □ No □	Date project completed:

ATTACH BIDDER'S BOND TO ACCOMPANY BID

Know all men by these presents:

That we _____, AS PRINCIPAL, and

_____, AS SURETY, are held and firmly bound unto the City of San Luis Obispo in the sum of:

_____ Dollars (_____) to be paid to said City or its certain attorney, its successors and assigns; for which payment, well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors or assigns, jointly and severally, firmly by these presents:

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the certain bid of the above

bounden _____

to construct _____
(insert name of street and limits to be improved or project)

dated _____ is accepted by the City of San Luis Obispo, and if the above

bounden _____, his heirs, executors, administrators, successors, and assigns shall duly enter into and execute a contract for such construction and shall execute and deliver the two bonds described within ten (10) days (not including Saturdays, Sundays, or legal holidays) after the above bounden,

_____, has received notice by and from the said City of San Luis Obispo that said contract is ready for execution, then this obligation shall become null and void; otherwise, it shall be and remain in full force and virtue.

IN WITNESS WHEREOF, we hereunto set our hands and seals this ___ day of _____, 20____.

Bidder Principal:

_____
Signature Date
Title:

Surety:

_____

_____

_____

Bidder's signature is not required to be notarized. Surety's signature must be notarized.
Equivalent form may be substituted
(Rev. 6-30-14)

SPECIAL PROVISIONS

ORGANIZATION

Special provisions are under headings that correspond with the main section heading of the Standard Specifications. Each special provision begins with a revision clause that describes or introduces a revision to the Standard Specifications. Any paragraph added or deleted by a revision clause does not change the paragraph number of the Standard Specifications for any other reference to a paragraph of the Standard Specifications.

DIVISION I GENERAL PROVISIONS

1 GENERAL

Add to Section 1-1.01 GENERAL:

The work must be done in compliance with the City of San Luis Obispo, Department of Public Works:

1. WTP Ozone Containment Improvement Project Specification No. 2001026 Special Provisions
2. City of San Luis Obispo Standard Specifications and Engineering Standards – 2020 edition
3. State of California, Department of Transportation Standard Specifications and Standard Plans – 2015 edition

In case of conflict between documents, governing ranking must comply with section 5-1.02 of the City of San Luis Obispo's Standard Specifications.

Failure to comply with the provisions of these sections is a material breach of contract:

1. Sections 5 through 8 of the Standard Specifications
2. Section 12 through 15 of the Standard Specifications
3. Section 77-1 of the Standard Specifications
4. Section 81 of the Standard Specifications
5. authorized working hours
6. OSHA compliance

2 BIDDING

Replace Section 2-1.33A BID DOCUMENT COMPLETION AND SUBMITTAL, General with:

Furnish bid using blank forms provided in the Special Provisions. Bid must include all forms and must be signed by the bidder.

3 CONTRACT AWARD AND EXECUTION

Replace 1st and 2nd paragraph in Section 3-1.18 CONTRACT EXECUTION with: (for accelerated work)

Upon notification of project award, return:

1. executed contract
2. insurance
3. contract bonds

within five business days after the bidder receives the contract.

4 SCOPE OF WORK

Add to Section 4-1.03 WORK DESCRIPTION:

Comply with the provisions of Sections 7, 14, 15, 39, and 73, and Technical Specification Divisions 01, 02, 05, 07, and 40 for general, material, construction, and payment specifics.

Add Section 4-1.03A WORK DESCRIPTION, Project Specific Signage: {Include for Measure G projects}

Maintain Revenue Enhancement Funding signage in work area. Return Revenue Enhancement Funding signs at the end of the project or upon the Engineer's request.

6 CONTROL OF MATERIALS

Add to Section 6-2.03 DEPARTMENT ACCEPTANCE:

The Engineer will furnish Sales Tax signs mounted to moveable barricades. Maintain Sales Tax signage in work area. Return Sales Tax signs at the end of the project or upon the Engineer's request. [delete for non-Measure G]

7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

Replace last paragraph in Section 7-1.02K(3) Labor Code, Certified Payroll Records (Labor Code 1776) with:

Furnish the Engineer one Portable Document Format (PDF) file which contains all certified payroll records for the prior month's work. Redact the PDF file making the employee's social security number illegible. Failure to submit PDF file with other monthly payroll records is considered an incomplete payroll submission and penalties will be assessed.

8 PROSECUTION AND PROGRESS

Replace the 1st paragraph in Section 8-1.02A SCHEDULE, General with:

Provide a Level 1 schedule for this work.

Add to Section 8-1.04B START OF JOB SITE ACTIVITIES, Standard Start: (for accelerated start)

Contract time will start on the first Monday after preconstruction meeting.

14 ENVIRONMENTAL STEWARDSHIP

Add to Section 14-9.02 AIR POLLUTION CONTROL, General:

The City has obtained an annual permit for construction from the Air Pollution Control District (APCD). The annual APCD permit and construction log files are located on the City's website:

http://www.slocity.org/government/department-directory/public-works/documents-online/construction-documents

A copy of the permit can also be found in Appendix H of the City Standards. You are required to comply with the APCD permit including all notification and construction logs using the appropriate equipment. Provide training to all workers in the construction area.

You must comply with section 77-1 of the standard specifications.

DIVISION XIII APPENDICES

APPENDIX A - FORM OF AGREEMENT

THIS AGREEMENT, made on _____, by and between the City of San Luis Obispo, a municipal corporation and charter city, San Luis Obispo County, California (hereinafter called the Owner) and COMPANY NAME (hereinafter called the Contractor).

WITNESSETH:

That the Owner and the Contractor for the consideration stated herein agree as follows:

ARTICLE 1, SCOPE OF WORK: The Contractor shall perform everything required to be performed, shall provide and furnish all of the labor, materials, necessary tools, expendable equipment, and all utility and transportation services required to complete all the work of construction of

NAME OF PROJECT, SPEC NO.

in strict compliance with the plans and specifications therefor, including any and all Addenda, adopted by the Owner, in strict compliance with the Contract Documents hereinafter enumerated.

It is agreed that said labor, materials, tools, equipment, and services shall be furnished and said work performed and completed under the direction and supervision and subject to the approval of the Owner or its authorized representatives.

ARTICLE II, CONTRACT PRICE: The Owner shall pay the Contractor as full consideration for the faithful performance of this Contract, subject to any additions or deductions as provided in the Contract Documents, the contract prices as follows:

Item No.	Item	Unit of Measure	Estimated Quantity	Item Price (in figures)	Total (in figures)
1.					
2.					
3.					

BID TOTAL: $ .00

Payments are to be made to the Contractor in compliance with and subject to the provisions embodied in the documents made a part of this Contract.

Should any dispute arise respecting the true value of any work omitted, or of any extra work which the Contractor may be required to do, or respecting the size of any payment to the Contractor, during the performance of this Contract, said dispute shall be decided by the Owner and its decision shall be final, and conclusive.

ARTICLE III, COMPONENT PARTS OF THIS CONTRACT: The Contract consists of the following documents, all of which are as fully a part thereof as if herein set out in full, and if not attached, as if hereto attached:

1. Notice to Bidders and Information for Bidders
2. Standard Specifications and Engineering Standards
3. Special Provisions, any Addenda, Plans and Contract Change Orders
4. Caltrans Standard Specifications and Standard Plans 2015
5. Accepted Bid and Bid Bond
6. List of Subcontractors
7. Public Contract Code Sections 10285.1 Statement
8. Public Contract Code Section 10162 Questionnaire
9. Public Contract Code Section 10232 Statement
10. Labor Code Section 1725.5 Statements
11. Bidder Acknowledgements
12. Qualifications
13. Non-collusion Declaration
14. Agreement and Bonds
15. Insurance Requirements and Forms

ARTICLE IV INDEMNIFICATION: The Contractor shall indemnify, defend with legal counsel approved by City, and hold harmless City, its officers, officials, employees and volunteers from and against all liability, loss, damage, expense, cost (including without limitation reasonable legal counsel fees, expert fees and all other costs and fees of litigation) of every nature arising out of or in connection with the Contractor's negligence, recklessness or willful misconduct in the performance of work hereunder or its failure to comply with any of its obligations contained in this Agreement, except such loss or damage which is caused by the sole or active negligence or willful misconduct of the City. Should conflict of interest principles preclude a single legal counsel from representing both the City and the Contractor, or should the City otherwise find the Contractor's legal counsel unacceptable, then the Contractor shall reimburse the City its costs of defense, including without limitation reasonable legal counsel fees, expert fees and all other costs and fees of litigation. The Contractor shall promptly pay any final judgment rendered against the City (and its officers, officials, employees and volunteers) with respect to claims determined by a trier of fact to have been the result of the Contractor's negligent, reckless or wrongful performance. It is expressly understood and agreed that the foregoing provisions are intended to be as broad and inclusive as is permitted by the law of the State of California and will survive termination of this Agreement.

The Contractor obligations under this section apply regardless of whether such claim, charge, damage, demand, action, proceeding, loss, stop notice, cost, expense, judgment, civil fine or penalty, or liability was caused in part or contributed to by an Indemnitee. However, without affecting the rights of the City under any provision of this agreement, the Contractor shall not be required to indemnify and hold harmless the City for liability attributable to the active negligence of City, provided such active negligence is determined by agreement between the parties or by the findings of a court of competent jurisdiction. In

instances where the City is shown to have been actively negligent and where the City's active negligence accounts for only a percentage of the liability involved, the obligation of the Contractor will be for that entire portion or percentage of liability not attributable to the active negligence of the City.

ARTICLE V. It is further expressly agreed by and between the parties hereto that should there be any conflict between the terms of this instrument and the bid of said Contractor, then this instrument shall control and nothing herein shall be considered as an acceptance of the said terms of said bid conflicting herewith.

IN WITNESS WHEREOF, the parties to these presents have hereunto set their hands this year and date first above written.

CITY OF SAN LUIS OBISPO
A Municipal Corporation

_____
Derek Johnson, City Manager

APPROVED AS TO FORM

_____
J. Christine Dietrick
City Attorney

CONTRACTOR:

Name of Company

By:_____
Name of CAO/President
Its: CAO/PRESIDENT

(2nd signature required if Corporation):

By:_____
Name of Corporate Officer

Its: _____

APPENDIX B - TECHNICAL SPECIFICATIONS

City of San Luis Obispo

WTP OZONE CONTAINMENT IMPROVEMENT PROJECT

TECHNICAL SPECIFICATIONS

Jon Hanlon, PE

Divisions 01, 40

Michael E. Parolini, PE, SE

Divisions 02, 05, 07

June 2024

CITY OF SAN LUIS OBISPO

WTP OZONE CONTAINMENT IMPROVEMENT PROJECT
TECHNICAL SPECIFICATIONS
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SECTION 011100 COORDINATION AND SEQUENCE OF WORK

PART 1 - GENERAL

1.01 DESCRIPTION

This section generally describes the project and includes work sequence and schedule, Contractor's use of premises, and maintenance and operation of existing facilities.

1.02 LOCATION OF PROJECT SITE

The project site is located at the City water treatment plant located on Stenner Creek Road.

1.03 GENERAL NATURE OF WORK

The work involves construction of a new manhole, intercepting a 12 inch gravity drain line, construction of fabricated steel structures, concrete flatwork, coring holes in ozone contact basin, and installation of hazard signs. Work is to be performed within an active water treatment plant.

1.04 HEALTH AND SAFETY

Work within an active water treatment plant presents a number of hazards including but not limited to:

A. Exposure to Ozone Gas - The existing 12-inch overflow pipe from the ozone contact basin is intended to convey accidental basin overflows to Manhole 11 (MH-11), and could potentially convey ozone gas. Additionally, entry into the ozone contactor is a confined space, and could potentially contain ozone gas

1. Contractor shall furnish and install PortaSens III Model D-16 portable ozone gas detector by Analytical Technology Inc. and deliver to City at project completion.

2. Contractor shall continuously monitor ambient ozone concentration when workers are in excavations, manholes, or ozone contact basins.

B. Exposure to Large Volumes of Water Passing Through Pipes and Manholes at the Project Site - Filter backwash water with flow rates up to 12,000 gallons per minute will pass through the 24-inch piping and MH-11 two (2) times per day without warning when the plant is in operation. Entry or modifications to MH-11, including modifications to the 12-inch ozone contact basin overflow pipe, are prohibited while plant is in operation (Approximately 5:00 AM – 6:00 PM, Monday through Friday). Perform night work as required, outside of regular plant operating hours.

C. Entry into the ozone contact basin is prohibited while the plant is in operation (Approximately 5:00 AM – 6:00 PM, Monday through Friday). Only one train of the

ozone contact basin is in operation at any given time. Entry into the offline basin is limited to night work when the plant is offline. Core holes in wall of inlet chamber and apply epoxy coating to holes during night work.

D. Perform night work as required, outside of regular plant operating hours.

1.05 WORK SEQUENCING PLAN

A. A minimum of 15 working days prior to start of work activities the Contractor shall submit a detailed Work Sequencing Plan and schedule outlining the Contractor's sequence of work and addressing Health and Safety requirements. Plan shall include, at a minimum, the following:

1. Demolition and construction sequence and methods.

2. Pipe and manhole installation sequence and methods.

3. Safety procedures.

4. Protection of existing piping.

B. The following example Work Sequencing Plan is provided:

1. Divert flow from ozone analyzers to wash water reclamation basins as shown in the Plans.

2. Excavate for new manhole (MH-11A) and expose existing 12-inch contact basin overflow pipeline.

3. Submit night work request and overflow contingency plan for City approval.

a. Work Night No. 1 shall be limited to six (6) hours, or the limitations stated in Section 5a shall apply.

b. The overflow contingency plan shall identify location of overflow extension riser and confirm requirements per this specification and Sheet C-104. Maintain access for chemical delivery trucks.

c. The contractor shall have onsite sufficient 12-inch SDR35 PVC pipe, connectors, and appurtenances to construct a temporary riser for the existing 12-inch ozone contact basin overflow pipe in the event work cannot be completed in one night. The temporary riser will route any potential ozone contact basin overflow out of the excavation and onto the driveway such that the excavation will not become flooded in the event of overflow during plant operation.

d. A temporary plug shall be installed on the 12-inch overflow pipe inlet at MH-11 to prevent backflow into the excavation zone and/or MH-11A during daily backwash cycles.

4. Work Night No. 1:

a. Cut and remove existing 12-inch ozone contact basin overflow pipe as required to install manhole. Install MH-11A base and rings. Reconnect existing 6-inch chemical drain to MH-11A.

b. Core 3-inch holes and coat holes with epoxy in offline ozone contact basin.

c. Construct overflow extension and 12 inch plug if work is not completed prior to plant startup.

5. Work Night No. 2:

a. If Work Night No. 1 is more than six (6) hours, then Work Night No. 2 must be a minimum of 48 hours after Work Night No. 1, unless otherwise approved by Engineer.

b. Request plant staff switch to second ozone contact basin prior to Work Night No. 2

c. If necessary, complete installation of MH-11A, and work within MH-11.

d. Core 3-inch holes and coat holes with epoxy in (second) offline ozone contact basin.

6. Upon completion of manhole installation, backfill with slurry.

1.06 CONTRACTOR'S USE OF PREMISES

A. The Contractor shall not impede City access to or operation of the water treatment plant.

B. City staffing costs for night work beyond two (2) nights shall be borne by the contractor.

END OF SECTION

SECTION 013233 PRECONSTRUCTION DIGITAL AUDIO-VIDEO DOCUMENTATION

PART 1 - GENERAL

1.01 DESCRIPTION

This section includes materials and performance for preconstruction digital audio-video documentation and generally defines Contractor's responsibilities, unless otherwise stated, for the following:

A. Equipment.

B. Submittals.

C. Technique.

D. Quality assurance.

1.02 VIDEO AND AUDIO QUALITY

A. Documentation shall be performed by a responsible commercial firm skilled and regularly engaged in the preparation of preconstruction color audio-video documentation acceptable to the Owner.

B. Completed documentation shall reproduce bright, sharp pictures with accurate colors and shall be free from distortion or any other significant picture imperfection. The audio portion of the recording shall reproduce the commentary of the camera operator with proper volume, clarity, and be free of distortion.

C. The Owner’s Representative will accompany the commercial firm in performing the audio-video documentation to observe the documentation effort. The accompanying personnel may direct the commercial firm to record certain features observed. Notify the Owner’s Representative seven days in advance so that the accompanying personnel can be scheduled.

D. Construction shall not proceed until the Owner and Owner’s Representative have reviewed the documentation and notified the Contractor of its acceptability. It is anticipated that such review will be completed within 7 days after submittal.

1.03 MEASUREMENT AND PAYMENT

No separate payment item is provided for this work. The cost of performing this work shall be incorporated into the bid item for mobilization.

PART 2 - MATERIALS

2.01 RECORDING EQUIPMENT

Utilize a high-resolution digital video camera with extended still frame capability.

2.02 RECORDING MEDIA

A. Utilize new, MP4 media file on thumb drive having:

1. High resolution.

2. Extended still frame capability.

PART 3 - EXECUTION

3.01 COVERAGE

A. Record coverage of surface features located in the construction's zone of influence including, but not limited to:

1. Chemical delivery area

2. Driveways and concrete features

3. Manholes 11 and 12

4. Project piping in Pipe Gallery

5. Ozone contact basin piping

B. Record the individual features of each item with particular attention being focused upon the existence of any existing faults, fractures, or defects.

C. Control pan rate, rate of travel, camera height, and zoom rate to maintain a steady clear view.

D. Create a single, continuous, unedited recording which begins and ends within each portion of a particular construction area.

3.02 AUDIO CONTENT

A. Simultaneously record audio content during videotaping.

B. Audio recording shall assist in viewer orientation and in any needed identification, clarification, or description of features being recorded.

C. Audio recording shall only consist of camera operator commentary.

3.03 INDEXING

A. Permanently label thumb drive with a sequential number and the project name.

B. Index thumb drive with a digital record of the time and date of the recording which is continuously displayed as the MP4 is played.

C. Prepare a written log which describes the contents of each thumb drive including:

1. Coverage and location.

2. Recording date.

3.04 CONDITIONS

A. Record coverage during dry, clear weather and during daylight hours only.

B. Record coverage when the area is free of debris or obstructions.

C. Record coverage no more than 21 days prior to mobilization at the site.

END OF SECTION

SECTION 015210 RESTROOMS AND TRASH SERVICES

PART 1 - GENERAL

1.01 RESTROOMS

A. Furnish and maintain chemical toilets for use by workers and subcontractors. These facilities shall be serviced and provided with necessary sanitary supplies by a janitorial/cleaning service retained by the Contractor on a minimum weekly basis.

B. Use of City restrooms is prohibited.

1.02 TRASH SERVICES

A. Furnish and maintain trash receptacles. Furnish enough closed-lid dumpsters of sufficient size to contain the solid waste generated by work activities. Dumpsters must be watertight. Do not wash out dumpsters at the job site.

B. Furnish and use trash containers in the job-site, field trailers, and locations where workers gather for lunch and breaks.

C. Do not allow litter, trash, or debris to accumulate anywhere on the site. Pick up and remove litter, trash, and debris from the job site daily.

D. Convey contents to a sanitary landfill on a weekly basis.

E. Use of City waste receptacles is prohibited.

END OF SECTION

SECTION 024119 SELECTIVE DEMOLITION

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Demolition and removal of selected site elements.
2. Salvage of existing items to be reused or recycled.

B. Related Requirements:

1. Section 011000 "Summary" for restrictions on use of the premises, Owner-occupancy requirements, and phasing requirements.

1.02 DEFINITIONS

A. Remove: Detach items from existing construction and dispose of them off-site unless indicated to be salvaged or reinstalled.

B. Remove and Salvage: Detach items from existing construction, in a manner to prevent damage, and deliver to Owner ready for reuse .

C. Remove and Reinstall: Detach items from existing construction, in a manner to prevent damage, prepare for reuse, and reinstall where indicated.

D. Existing to Remain: Leave existing items that are not to be removed and that are not otherwise indicated to be salvaged or reinstalled.

E. Dismantle: To remove by disassembling or detaching an item from a surface, using gentle methods and equipment to prevent damage to the item and surfaces; disposing of items unless indicated to be salvaged or reinstalled.

1.03 MATERIALS OWNERSHIP

A. Unless otherwise indicated, demolition waste becomes property of Contractor.

B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner.

1. Carefully salvage in a manner to prevent damage and promptly return to Owner.

1.04 PREINSTALLATION MEETINGS

A. Predemolition Conference: Conduct conference at Project site .

1. Inspect and discuss condition of construction to be selectively demolished.
2. Review structural load limitations of existing structure.

3. Review and finalize selective demolition schedule and verify availability of materials, demolition personnel, equipment, and facilities needed to make progress and avoid delays.
4. Review requirements of work performed by other trades that rely on substrates exposed by selective demolition operations.
5. Review areas where existing construction is to remain and requires protection.

1.05 FIELD CONDITIONS

A. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.

B. Notify Engineer of discrepancies between existing conditions and Drawings before proceeding with selective demolition.

C. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.

1. Hazardous materials will be removed by Owner before start of the Work.
2. If suspected hazardous materials are encountered, do not disturb; immediately notify Engineer and Owner. Hazardous materials will be removed by Owner under a separate contract.

D. Storage or sale of removed items or materials on-site is not permitted.

E. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.

1. Maintain fire-protection facilities in service during selective demolition operations.

1.06 COORDINATION

A. Arrange selective demolition schedule so as not to interfere with Owner's operations.

PART 2 - PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

B. Standards: Comply with ANSI/ASSP A10.6 and NFPA 241.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify that utilities have been disconnected and capped before starting selective demolition operations.

B. Review Project Record Documents of existing construction or other existing condition and hazardous material information provided by Owner. Owner does not guarantee that existing conditions are same as those indicated in Project Record Documents.

C. Steel Tendons: Locate tensioned steel tendons and include recommendations for de-tensioning.

D. Verify that hazardous materials have been remediated before proceeding with building demolition operations.

E. Survey of Existing Conditions: Record existing conditions by use of measured drawings preconstruction photographs or video and templates.

1. Inventory and record the condition of items to be removed and salvaged.
2. Before selective demolition or removal of existing building elements that will be reproduced or duplicated in final Work, make permanent record of measurements, materials, and construction details required to make exact reproduction.

3.02 PREPARATION

A. Refrigerant: Before starting demolition, remove refrigerant from mechanical equipment according to 40 CFR 82 and regulations of authorities having jurisdiction.

3.03 PROTECTION

A. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.

1. Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of building.
2. Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.
3. Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.
4. Cover and protect furniture, furnishings, and equipment that have not been removed.

B. Remove temporary barricades and protections where hazards no longer exist.

3.04 SELECTIVE DEMOLITION, GENERAL

A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:

1. Proceed with selective demolition systematically, from higher to lower level. Complete selective demolition operations above each floor or tier before disturbing supporting members on the next lower level.
2. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping. Temporarily cover openings to remain.
3. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
4. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before

starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.

5. Maintain fire watch during and for at least 1 hour after flame-cutting operations.
6. Maintain adequate ventilation when using cutting torches.
7. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
8. Remove structural framing members and lower to ground by method suitable to avoid free fall and to prevent ground impact or dust generation.
9. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
10. Dispose of demolished items and materials promptly.

B. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

C. Removed and Salvaged Items:

1. Store items in a secure area until delivery to Owner.
2. Transport items to Owner's storage area designated by Owner.

3.05 DISPOSAL OF DEMOLISHED MATERIALS

A. Remove demolition waste materials from Project site and dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction.

1. Do not allow demolished materials to accumulate on-site.
2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
3. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.

B. Burning: Do not burn demolished materials.

3.06 CLEANING

A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION

SECTION 051200 STRUCTURAL STEEL FRAMING

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Structural-steel materials.

1.02 DEFINITIONS

A. Structural Steel: Elements of the structural frame indicated on Drawings and as described in ANSI/AISC 303.

B. Seismic-Load-Resisting System: Elements of structural-steel frame designated as "SLRS" or along grid lines designated as "SLRS" on Drawings, including columns, beams, and braces and their connections.

C. Heavy Sections: Rolled and built-up sections as follows:

1. Shapes included in ASTM A6/A6M with flanges thicker than 1-1/2 inches.
2. Welded built-up members with plates thicker than 2 inches.
3. Column base plates thicker than 2 inches.

D. Protected Zone: Structural members or portions of structural members indicated as "protected zone" on Drawings. Connections of structural and nonstructural elements to protected zones are limited.

E. Demand-Critical Welds: Those welds, the failure of which would result in significant degradation of the strength and stiffness of the seismic-load-resisting system and which are indicated as "demand critical" or "seismic critical" on Drawings.

1.03 COORDINATION

A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written recommendations to ensure that shop primers and topcoats are compatible with one another.

B. Coordinate installation of anchorage items to be embedded in or attached to other construction without delaying the Work. Provide setting diagrams, sheet metal templates, instructions, and directions for installation.

1.04 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site .

1.05 ACTION SUBMITTALS

A. Product Data:

1. Structural-steel materials.
2. Forged-steel hardware.
3. Shop primer.
4. Etching cleaner.
5. Galvanized repair paint.

B. Shop Drawings: Show fabrication of structural-steel components.

1. Include details of cuts, connections, splices, camber, holes, and other pertinent data.
2. Include embedment Drawings.
3. Indicate welds by standard AWS symbols, distinguishing between shop and field welds, and show size, length, and type of each weld. Show backing bars that are to be removed and supplemental fillet welds where backing bars are to remain.
4. Indicate type, size, and length of bolts, distinguishing between shop and field bolts. Identify pretensioned and slip-critical, high-strength bolted connections.
5. Identify members and connections of the seismic-load-resisting system.
6. Indicate locations and dimensions of protected zones.
7. Identify demand-critical welds.
8. Identify members not to be shop primed.

C. Welding Procedure Specifications (WPSs) and Procedure Qualification Records (PQRs): Provide in accordance with AWS D1.1/D1.1M for each welded joint whether prequalified or qualified by testing, including the following:

1. Power source (constant current or constant voltage).
2. Electrode manufacturer and trade name, for demand-critical welds.

1.06 INFORMATIONAL SUBMITTALS

A. Qualification Data: For fabricator testing agency.

1.07 QUALITY ASSURANCE

A. Fabricator Qualifications: A qualified fabricator that participates in the AISC Quality Certification Program and is designated an AISC-Certified Plant, Category BU or is accredited by the IAS Fabricator Inspection Program for Structural Steel (Acceptance Criteria 172).

B. Welding Qualifications: Qualify procedures and personnel in accordance with AWS D1.1/D1.1M.

1. Welders and welding operators performing work on bottom-flange, demand-critical welds are to pass the supplemental welder qualification testing, as required by AWS D1.8/D1.8M. FCAW-S and FCAW-G are to be considered separate processes for welding personnel qualification.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Store materials to permit easy access for inspection and identification. Keep steel members off ground and spaced by using pallets, dunnage, or other supports and spacers. Protect steel members and packaged materials from corrosion and deterioration.

1. Do not store materials on structure in a manner that might cause distortion, damage, or overload to members or supporting structures. Repair or replace damaged materials or structures as directed.

B. Store fasteners in a protected place in sealed containers with manufacturer's labels intact.

1. Fasteners may be repackaged provided Owner's testing and inspecting agency observes repackaging and seals containers.
2. Clean and relubricate bolts and nuts that become dry or rusty before use.
3. Comply with manufacturers' written recommendations for cleaning and lubricating ASTM F3125/F3125M, Grade F1852 bolt assemblies and for retesting bolt assemblies after lubrication.

PART 2 - PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. Comply with applicable provisions of the following specifications and documents:

1. ANSI/AISC 303.
2. ANSI/AISC 341.
3. ANSI/AISC 360.
4. RCSC's "Specification for Structural Joints Using High-Strength Bolts."

B. Connection Design Information:

1. Option 1: Connection designs have been completed and connections indicated on the Drawings.

C. Moment Connections: Type FR, fully restrained.

2.02 STRUCTURAL-STEEL MATERIALS

A. Channels, Angles, M-Shapes: ASTM A36/A36M .

B. Plate and Bar: ASTM A36/A36M .

C. Cold-Formed Hollow Structural Sections: ASTM A500/A500M, Grade C structural tubing.

D. Welding Electrodes: Comply with AWS requirements.

2.03 FORGED-STEEL STRUCTURAL HARDWARE

A. Clevises and Turnbuckles: Made from cold-finished carbon-steel bars, ASTM A108, AISI C-1035.

B. Eye Bolts and Nuts: Made from cold-finished carbon-steel bars, ASTM A108, AISI C-1030.

C. Sleeve Nuts: Made from cold-finished carbon-steel bars, ASTM A108, AISI C-1018.

2.04 FABRICATION

A. Structural Steel: Fabricate and assemble in shop to greatest extent possible. Fabricate in accordance with ANSI/AISC 303 and to ANSI/AISC 360.

1. Camber structural-steel members where indicated.
2. Fabricate beams with rolling camber up.
3. Identify high-strength structural steel in accordance with ASTM A6/A6M and maintain markings until structural-steel framing has been erected.
4. Mark and match-mark materials for field assembly.
5. Complete structural-steel assemblies, including welding of units, before starting shop-priming operations.

B. Bolt Holes: Cut, drill, mechanically thermal cut, or punch standard bolt holes perpendicular to metal surfaces.

C. Finishing: Accurately finish ends of columns and other members transmitting bearing loads.

D. Cleaning: Clean and prepare steel surfaces that are to remain unpainted in accordance with SSPC-SP 1.

E. Holes: Provide holes required for securing other work to structural steel and for other work to pass through steel members.

1. Cut, drill, or punch holes perpendicular to steel surfaces. Do not thermally cut bolt holes or enlarge holes by burning.
2. Baseplate Holes: Cut, drill, mechanically thermal cut, or punch holes perpendicular to steel surfaces.
3. Weld threaded nuts to framing and other specialty items indicated to receive other work.

2.05 GALVANIZING

A. Hot-Dip Galvanized Finish: Apply zinc coating by the hot-dip process to structural steel in accordance with ASTM A123/A123M.

1. Fill vent and drain holes that are exposed in the finished Work unless they function as weep holes, by plugging with zinc solder and filing off smooth.

2.06 SHOP PRIMING

A. Shop prime steel surfaces, except the following:

1. Surfaces embedded in concrete or mortar. Extend priming of partially embedded members to a depth of 2 inches.
2. Surfaces to be field welded.
3. Surfaces of high-strength bolted, slip-critical connections.
4. Surfaces to receive sprayed fire-resistive materials (applied fireproofing).
5. Galvanized surfaces unless indicated to be painted.
6. Corrosion-resisting (weathering) steel surfaces.
7. Surfaces enclosed in interior construction.

B. Surface Preparation of Steel: Clean surfaces to be painted. Remove loose rust and mill scale and spatter, slag, or flux deposits. Prepare surfaces in accordance with the following specifications and standards:

1. SSPC-SP 2.

C. Surface Preparation of Galvanized Steel: Prepare galvanized-steel surfaces for shop priming by thoroughly cleaning steel of grease, dirt, oil, flux, and other foreign matter, and treating with etching cleaner or in accordance with SSPC-SP 16.

D. Priming: Immediately after surface preparation, apply primer in accordance with manufacturer's written instructions and at rate recommended by SSPC to provide a minimum dry film thickness of 1.5 mils. Use priming methods that result in full coverage of joints, corners, edges, and exposed surfaces.

1. Stripe paint corners, crevices, bolts, welds, and sharp edges.
2. Apply two coats of shop paint to surfaces that are inaccessible after assembly or erection. Change color of second coat to distinguish it from first.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify, with certified steel erector present, elevations of concrete- and masonry-bearing surfaces and locations of anchor rods, bearing plates, and other embedments for compliance with requirements.

1. Prepare a certified survey of existing conditions. Include bearing surfaces, anchor rods, bearing plates, and other embedments showing dimensions, locations, angles, and elevations.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Provide temporary shores, guys, braces, and other supports during erection to keep structural steel secure, plumb, and in alignment against temporary construction loads and loads equal in intensity to design loads. Remove temporary supports when permanent structural steel, connections, and bracing are in place unless otherwise indicated on Drawings.

1. Do not remove temporary shoring supporting composite deck construction and structural-steel framing until cast-in-place concrete has attained its design compressive strength.

3.03 ERECTION

A. Set structural steel accurately in locations and to elevations indicated and in accordance with ANSI/AISC 303 and ANSI/AISC 360.

B. Baseplates, Bearing Plates, and Leveling Plates: Clean concrete- and masonry-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates.

1. Set plates for structural members on wedges, shims, or setting nuts as required.
2. Weld plate washers to top of baseplate.
3. Snug-tighten anchor rods after supported members have been positioned and plumbed. Do not remove wedges or shims but, if protruding, cut off flush with edge of plate before packing with grout.
4. Promptly pack shrinkage-resistant grout solidly between bearing surfaces and plates, so no voids remain. Neatly finish exposed surfaces; protect grout and allow to cure. Comply with manufacturer's written installation instructions for grouting.

C. Maintain erection tolerances of structural steel within ANSI/AISC 303.

D. Align and adjust various members that form part of complete frame or structure before permanently fastening. Before assembly, clean bearing surfaces and other surfaces that are in permanent contact with members. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.

1. Level and plumb individual members of structure. Slope roof framing members to slopes indicated on Drawings.
2. Make allowances for difference between temperature at time of erection and mean temperature when structure is completed and in service.

E. Splice members only where indicated.

F. Do not use thermal cutting during erection unless approved by Engineer. Finish thermally cut sections within smoothness limits in AWS D1.1/D1.1M.

G. Do not enlarge unfair holes in members by burning or using drift pins. Ream holes that must be enlarged to admit bolts.

3.04 FIELD CONNECTIONS

A. High-Strength Bolts: Install high-strength bolts in accordance with RCSC's "Specification for Structural Joints Using High-Strength Bolts" for bolt and joint type specified.

1. Joint Type: Snug tightened.

B. Weld Connections: Comply with AWS D1.1/D1.1M and AWS D1.8/D1.8M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.

1. Comply with ANSI/AISC 303 and ANSI/AISC 360 for bearing, alignment, adequacy of temporary connections, and removal of paint on surfaces adjacent to field welds.
2. Remove backing bars or runoff tabs where indicated, back gouge, and grind steel smooth.
3. Assemble and weld built-up sections by methods that maintain true alignment of axes without exceeding tolerances in ANSI/AISC 303 for mill material.
4. Field welding is prohibited within the vicinity of the liquid oxygen tank and ozone processing equipment.

C. Shear Stud Connectors: Prepare steel surfaces as recommended by manufacturer of shear connectors. Weld using end welding of headed-stud shear connectors in accordance with AWS D1.1/D1.1M and manufacturer's written instructions.

3.05 INSTALLATION OF PREFABRICATED BUILDING COLUMNS

A. Install prefabricated building columns to comply with ANSI/AISC 360, manufacturer's written recommendations, and requirements of testing and inspecting agency that apply to the fire-resistance rating indicated.

3.06 REPAIR

A. Galvanized Surfaces: Clean areas where galvanizing is damaged or missing, and repair galvanizing to comply with ASTM A780/A780M.

B. Touchup Painting:

1. Immediately after erection, clean exposed areas where primer is damaged or missing, and paint with the same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.
   a. Clean and prepare surfaces by SSPC-SP 2 hand-tool cleaning or SSPC-SP 3 power-tool cleaning.

END OF SECTION

SECTION 051210 STRUCTURAL ALUMINUM

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Structural-aluminum materials.

1.02 DESIGN CRITERIA

A. ADM1-2015 Aluminum Design Manual: Part 1 – A Specification for Aluminum Structures

1.03 COORDINATION

A. Coordinate installation of anchorage items to be embedded in or attached to other construction without delaying the Work. Provide setting diagrams, sheet metal templates, instructions, and directions for installation.

1.04 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site .

1.05 ACTION SUBMITTALS

A. Product Data:

1. Structural-aluminum materials.

B. Shop Drawings: Show fabrication of structural-aluminum components.

1. Include details of cuts, connections, splices, camber, holes, and other pertinent data.
2. Include embedment Drawings.
3. Indicate welds by standard AWS symbols, distinguishing between shop and field welds, and show size, length, and type of each weld. Show backing bars that are to be removed and supplemental fillet welds where backing bars are to remain.
4. Indicate type, size, and length of bolts, distinguishing between shop and field bolts. Identify pretensioned and slip-critical, high-strength bolted connections.
5. Identify demand-critical welds.

C. Welding Procedure Specifications (WPSs) and Procedure Qualification Records (PQRs): Provide in accordance with AWS D1.2/D1.2M for each welded joint whether prequalified or qualified by testing, including the following:

1. Power source (constant current or constant voltage).
2. Electrode manufacturer and trade name, for demand-critical welds.

1.06 INFORMATIONAL SUBMITTALS

A. Qualification Data: For fabricator testing agency.

B. Welding Qualifications: Qualify procedures and personnel in accordance with AWS D1.2/D1.2M.

PART 2 - PRODUCTS

2.01 STRUCTURAL-ALUMINUM MATERIALS

A. Plate and Bar: 6061-T6.

B. Rectangular Tube: 6061-T6

C. Welding Electrodes: Comply with AWS requirements.

PART 3 - EXECUTION

3.01 STORAGE OF MATERIALS

A. Store structural material, either plain or fabricated, above ground on platforms, skids, or other supports. Keep material free from dirt, grease, and other foreign matter and protect from corrosion.

3.02 FABRICATION AND ERECTION

A. Fabricate miscellaneous metal items to straight lines and true curves. Drilling and punching shall not leave burrs or deformations. Continuously weld permanent connections along the entire area of contact. Exposed work shall have a smooth finish with welds ground smooth. Joints shall have a close fit with corner joints coped or mitered and shall be in true alignment. Unless specifically indicated in the drawings, there shall be no bends, twists, or open joints in any finished member nor any projecting edges or corners at intersections. Conceal fastenings wherever possible. Built-up parts shall be free of warp. Exposed ends and edges of metal shall be slightly rounded.

B. Clean the surfaces of metalwork to be in contact with concrete of rust, dirt grease, and other foreign substances before placing concrete.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.03 WELDING

A. Perform welding on aluminum by the gas shielded arc welding (GMAW and GTAW) process. Welding shall conform to the AWS D1.2.

B. Provide a minimum of two passes for metal in excess of 5/16.

C. Produce weld uniform in width and size throughout its length with each layer of weldment smooth; free of slag, cracks, pinholes, and undercuttings; and completely fused to the adjacent weld beads and base metal. Avoid irregular surface, nonuniform bead pattern, and high crown. Form fillet welds of the indicated size of uniform height and fully penetrating. Accomplish repair, chipping and grinding of welds in manner that will not gouge, groove, or reduce the base metal thickness.

3.04 CORROSION PROTECTION OF ALUMINUM SURFACES

A. Where aluminum surfaces come in contact with dissimilar metals, except stainless steel, keep the dissimilar metallic surfaces from direct contact by use of neoprene gaskets or washers.

END OF SECTION

SECTION 055000 METAL FABRICATIONS

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Steel framing and supports for applications where framing and supports are not specified in other Sections.

B. Related Requirements:

1. Section 051200 "Structural Steel Framing" for steel framing, supports, elevator machine beams, hoist beams, divider beams, door frames, and other steel items attached to the structural-steel framing.

1.02 COORDINATION

A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written instructions to ensure that shop primers and topcoats are compatible with one another.

B. Coordinate installation of metal fabrications that are anchored to or that receive other work. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

1.03 ACTION SUBMITTALS

A. Product Data: For the following:

1. Nonslip aggregates and nonslip-aggregate surface finishes.
2. Fasteners.
3. Shop primers.
4. Shrinkage-resisting grout.

B. Shop Drawings: Show fabrication and installation details. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items. Provide Shop Drawings for the following:

1. Steel framing and supports for applications where framing and supports are not specified in other Sections.

1.04 INFORMATIONAL SUBMITTALS

A. Mill Certificates: Signed by stainless steel manufacturers, certifying that products furnished comply with requirements.

B. Welding certificates.

C. Paint Compatibility Certificates: From manufacturers of topcoats applied over shop primers, certifying that shop primers are compatible with topcoats.

D. Research Reports: For post-installed anchors.

1.05 QUALITY ASSURANCE

A. Welding Qualifications: Qualify procedures and personnel in accordance with the following:

1. AWS D1.1/D1.1M, "Structural Welding Code - Steel."
2. AWS D1.6/D1.6M, "Structural Welding Code - Stainless Steel."

1.06 FIELD CONDITIONS

A. Field Measurements: Verify actual locations of walls, floor slabs, decks, and other construction contiguous with metal fabrications by field measurements before fabrication.

PART 2 - PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. Vehicular Barrier Cable Systems: Design vehicular barrier cable systems to resist a single 6000-lbf service load and 10,000-lbf ultimate load applied horizontally in any direction to the cable system, with anchorages or attachments capable of transferring this load to the structure. Limit deflection to 18 inches Design shall assume loads are applied at a height of 18 inches above the floor or ramp surface on an area not to exceed 1 sq. ft..

2.02 METALS

A. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.

B. Steel Plates, Shapes, and Bars: ASTM A36/A36M.

C. Stainless Steel Sheet, Strip, and Plate: ASTM A240/A240M or ASTM A666, Type 316L.

D. Stainless Steel Bars and Shapes: ASTM A276/A276M, Type 316L.

E. Rolled-Steel Floor Plate: ASTM A786/A786M, rolled from plate complying with ASTM A36/A36M or ASTM A283/A283M, Grade C or D.

F. Rolled-Stainless Steel Floor Plate: ASTM A793.

G. Abrasive-Surface Floor Plate: Steel plate with abrasive granules rolled into surface or with abrasive material metallically bonded to steel.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   a. Harsco Industrial IKG, a Division of Harsco Corporation.
   b. Ohio Gratings, Inc.
   c. W.S. Molnar Company.

2. Source Limitations: Obtain floor plate from single source from single manufacturer.

H. Steel Tubing: ASTM A500/A500M, cold-formed steel tubing.

I. Steel Pipe: ASTM A53/A53M, Standard Weight (Schedule 40) unless otherwise indicated.

J. Nickel Silver Extrusions: ASTM B151/B151M, Alloy UNS No. C74500.

2.03 FASTENERS

A. General: Unless otherwise indicated, provide Type 316 stainless steel fasteners for exterior use and zinc-plated fasteners with coating complying with ASTM B633 or ASTM F1941/F1941M, Class Fe/Zn 5, at exterior walls. Select fasteners for type, grade, and class required.

1. Provide stainless steel fasteners for fastening aluminum stainless steel or nickel silver.
2. Provide bronze fasteners for fastening bronze.

B. Steel Bolts and Nuts: Regular hexagon-head bolts, ASTM A307, Grade A; with hex nuts, ASTM A563; and, where indicated, flat washers.

C. High-Strength Bolts, Nuts, and Washers: ASTM F3125/F3125M, Grade A325, Type 3, heavy-hex steel structural bolts; ASTM A563, Grade DH3, heavy-hex carbon-steel nuts; and where indicated, flat washers.

D. Stainless Steel Bolts and Nuts: Regular hexagon-head annealed stainless steel bolts, ASTM F593; with hex nuts, ASTM F594; and, where indicated, flat washers; Alloy Group 2.

E. Anchor Bolts: ASTM F1554, Grade 36, of dimensions indicated; with nuts, ASTM A563; and, where indicated, flat washers.

1. Hot-dip galvanize or provide mechanically deposited, zinc coating where item being fastened is indicated to be galvanized.

F. Anchors, General: Capable of sustaining, without failure, a load equal to six times the load imposed when installed in unit masonry and four times the load imposed when installed in concrete, as determined by testing in accordance with ASTM E488/E488M, conducted by a qualified independent testing agency.

G. Cast-in-Place Anchors in Concrete: Either threaded or wedge type unless otherwise indicated; galvanized ferrous castings, either ASTM A47/A47M malleable iron or ASTM A27/A27M cast steel. Provide bolts, washers, and shims as needed, all hot-dip galvanized per ASTM F2329/F2329M.

H. Post-Installed Anchors: Torque-controlled expansion anchors or chemical anchors.

1. Material for Interior Locations: Carbon-steel components zinc plated to comply with ASTM B633 or ASTM F1941/F1941M, Class Fe/Zn 5, unless otherwise indicated.
2. Material for Exterior Locations and Where Stainless Steel Is Indicated: Alloy Group 2 stainless steel bolts, ASTM F593, and nuts, ASTM F594.

2.04 MISCELLANEOUS MATERIALS

A. Shop Primer for Galvanized Steel: Primer formulated for exterior use over zinc-coated metal and compatible with finish paint systems indicated.

B. Galvanizing Repair Paint: High-zinc-dust-content paint complying with SSPC-Paint 20 and compatible with paints specified to be used over it.

C. Shrinkage-Resistant Grout: Factory-packaged, nonmetallic, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107/C1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.

D. Concrete: Comply with requirements in Section 033000 "Cast-in-Place Concrete" for normal-weight, air-entrained concrete with a minimum 28-day compressive strength of 3000 psi.

2.05 FABRICATION, GENERAL

A. Shop Assembly: Preassemble items in the shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.

B. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.

C. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.

D. Form exposed work with accurate angles and surfaces and straight edges.

E. Weld corners and seams continuously to comply with the following:

1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove welding flux immediately.
4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

F. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners or welds where possible. Where exposed fasteners are required, use Phillips flat-head (countersunk) fasteners unless otherwise indicated. Locate joints where least conspicuous.

G. Fabricate seams and other connections that are exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.

H. Cut, reinforce, drill, and tap metal fabrications as indicated to receive finish hardware, screws, and similar items.

I. Provide for anchorage of type indicated; coordinate with supporting structure. Space anchoring devices to secure metal fabrications rigidly in place and to support indicated loads.

J. Where units are indicated to be cast into concrete or built into masonry, equip with integrally welded steel strap anchors, 1/8 by 1-1/2 inches, with a minimum 6-inch embedment and 2-inch hook, not less than 8 inches from ends and corners of units and 24 inches o.c., unless otherwise indicated.

2.06 MISCELLANEOUS FRAMING AND SUPPORTS

A. General: Provide steel framing and supports not specified in other Sections as needed to complete the Work.

B. Fabricate units from steel shapes, plates, and bars of welded construction unless otherwise indicated. Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent construction.

1. Furnish inserts for units installed after concrete is placed.

C. Galvanize miscellaneous framing and supports where indicated.

D. Prime miscellaneous framing and supports with zinc-rich primer where indicated.

2.07 ABRASIVE METAL

A. Cast-Metal Units: Cast , with an integral-abrasive, as-cast finish consisting of aluminum oxide, silicon carbide, or a combination of both. Fabricate units in lengths necessary to accurately fit openings or conditions.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   a. American Safety Tread Co., Inc.
   b. Balco; a CSW Industrials Company.
   c. Barry Pattern & Foundry Co., Inc.
   d. Safe-T-Metal Company, Inc.
   e. Wooster Products Inc.
2. Source Limitations: Obtain units from single source from single manufacturer.
3. Nosings: Cross-hatched units, 4 inches wide with 1-inch lip, for casting into concrete.
4. Nosings: Cross-hatched units, 1-1/2 by 1-1/2 inches, for casting into concrete.
5. Treads: Cross-hatched units, full depth of tread with 3/4-by-3/4-inch nosing, for application over bent plate treads or existing stairs.
6. Thresholds: Fluted-saddle-type units, 5 inches wide by 1/2 inch high, with tapered edges.
7. Thresholds: Fluted-interlocking- (hook-strip-) type units, 5 inches wide by 5/8 inch high, with tapered edge.
8. Thresholds: Plain-stepped- (stop-) type units, 5 inches wide by 1/2 inch high, with 1/2-inch step.

B. Extruded Units: , with abrasive filler consisting of aluminum oxide, silicon carbide, or a combination of both, in an epoxy-resin binder. Fabricate units in lengths necessary to accurately fit openings or conditions.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   a. American Safety Tread Co., Inc.

b. Amstep Products.
c. Armstrong Products, Inc.
d. Balco; a CSW Industrials Company.
e. Nystrom.
f. UPNOVR, Inc.
g. Wooster Products Inc.

2. Source Limitations: Obtain units from single source from single manufacturer.
3. Provide ribbed units, with abrasive filler strips projecting 1/16 inch above aluminum extrusion.
4. Provide solid-abrasive-type units without ribs.
5. Nosings:
   a. Square-back units, 3 inches wide, for casting into concrete steps.
   b. Beveled-back units, 3 inches wide with 1-3/8-inch lip, for surface mounting on existing stairs.
   c. Two-piece units, 3 inches wide, with subchannel for casting into concrete steps.
6. Treads: Beveled-back units, full depth of tread with 1-3/8-inch lip, for application over existing stairs.

C. Provide anchors for embedding units in concrete, either integral or applied to units, as standard with manufacturer.

D. Drill for mechanical anchors and countersink. Locate holes not more than 4 inches from ends and not more than 12 inches o.c., evenly spaced between ends, unless otherwise indicated. Provide closer spacing if recommended by manufacturer.

1. Provide two rows of holes for units more than 5 inches wide, with two holes aligned at ends and intermediate holes staggered.

E. Apply bituminous paint to concealed surfaces of cast-metal units.

F. Apply clear lacquer to concealed surfaces of extruded units.

2.08 STEEL WELD PLATES AND ANGLES

A. Provide steel weld plates and angles not specified in other Sections, for items supported from concrete construction as needed to complete the Work. Provide each unit with no fewer than two integrally welded steel strap anchors for embedding in concrete.

2.09 GENERAL FINISH REQUIREMENTS

A. Finish metal fabrications after assembly.

B. Finish exposed surfaces to remove tool and die marks and stretch lines, and to blend into surrounding surface.

2.10 STEEL AND IRON FINISHES

A. Galvanizing: Hot-dip galvanize items as indicated to comply with ASTM A153/A153M for steel and iron hardware and with ASTM A123/A123M for other steel and iron products.

1. Do not quench or apply post galvanizing treatments that might interfere with paint adhesion.

B. Preparation for Shop Priming Galvanized Items: After galvanizing, thoroughly clean galvanized surfaces of grease, dirt, oil, flux, and other foreign matter, and treat with metallic phosphate process.

C. Shop prime iron and steel items not indicated to be galvanized unless they are to be embedded in concrete, sprayed-on fireproofing, or masonry, or unless otherwise indicated.

D. Preparation for Shop Priming: Prepare surfaces to comply with SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."

1. Exterior Items: SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
2. Items Indicated to Receive Zinc-Rich Primer: SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
3. Other Steel Items: SSPC-SP 3, "Power Tool Cleaning."
4. Galvanized-Steel Items: SSPC-SP 16, "Brush-off Blast Cleaning of Coated and Uncoated Galvanized Steel, Stainless Steels, and Non-Ferrous Metals."

E. Shop Priming: Apply shop primer to comply with SSPC-PA 1, "Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel," for shop painting.

1. Stripe paint corners, crevices, bolts, welds, and sharp edges.

PART 3 - EXECUTION

3.01 INSTALLATION, GENERAL

A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.

B. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade surfaces of exterior units that have been hot-dip galvanized after fabrication and are for bolted or screwed field connections.

C. Field Welding: Comply with the following requirements:

1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove welding flux immediately.
4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

D. Fastening to In-Place Construction: Provide anchorage devices and fasteners where metal fabrications are required to be fastened to in-place construction. Provide threaded fasteners for

use with concrete and masonry inserts, toggle bolts, through bolts, lag screws, wood screws, and other connectors.

E. Provide temporary bracing or anchors in formwork for items that are to be built into concrete, masonry, or similar construction.

F. Corrosion Protection: Coat concealed surfaces of aluminum that come into contact with grout, concrete, masonry, wood, or dissimilar metals with the following:

1. Cast Aluminum: Heavy coat of bituminous paint.
2. Extruded Aluminum: Two coats of clear lacquer.

3.02 INSTALLATION OF MISCELLANEOUS FRAMING AND SUPPORTS

A. General: Install framing and supports to comply with requirements of items being supported, including manufacturers' written instructions and requirements indicated on Shop Drawings.

B. Anchor supports for overhead doors and overhead grilles securely to, and rigidly brace from, building structure.

C. Anchor shelf angles securely to existing construction with anchor bolts .

D. Support steel girders on solid grouted masonry, concrete, or steel pipe columns. Secure girders with anchor bolts embedded in grouted masonry or concrete or with bolts through top plates of pipe columns.

1. Where grout space under bearing plates is indicated for girders supported on concrete or masonry, install as specified in "Installing Bearing and Leveling Plates" Article.

E. Install pipe columns on concrete footings with grouted baseplates. Position and grout column baseplates as specified in "Installation of Bearing and Leveling Plates" Article.

1. Grout baseplates of columns supporting steel girders after girders are installed and leveled.

3.03 INSTALLATION OF BEARING AND LEVELING PLATES

A. Clean concrete and masonry bearing surfaces of bond-reducing materials, and roughen to improve bond to surfaces. Clean bottom surface of plates.

B. Set bearing and leveling plates on wedges, shims, or leveling nuts. After bearing members have been positioned and plumbed, tighten anchor bolts. Do not remove wedges or shims but, if protruding, cut off flush with edge of bearing plate before packing with shrinkage-resistant grout. Pack grout solidly between bearing surfaces and plates to ensure that no voids remain.

3.04 REPAIRS

A. Touchup Painting:

1. Immediately after erection, clean field welds, bolted connections, and abraded areas. Paint uncoated and abraded areas with same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.
   a. Apply by brush or spray to provide a minimum 2.0-mil dry film thickness.

2. Cleaning and touchup painting of field welds, bolted connections, and abraded areas of shop paint are specified in

B. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A780/A780M.

END OF SECTION

SECTION 074113 FORMED METAL ROOF PANELS

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Exposed-fastener, lap-seam, metal roof panels.

1.02 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site .

1. Meet with Owner, Owner's insurer if applicable, metal panel Installer, metal panel manufacturer's representative, structural-support Installer, and installers whose work interfaces with or affects metal panels, including installers of roof accessories and roof-mounted equipment.
2. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
3. Review methods and procedures related to metal panel installation, including manufacturer's written instructions.
4. Examine support conditions for compliance with requirements, including alignment between and attachment to structural members.
5. Review structural loading limitations of deck during and after roofing.
6. Review flashings, special details, drainage, penetrations, equipment curbs, and condition of other construction that affect metal panels.
7. Review governing regulations and requirements for insurance, certificates, and tests and inspections if applicable.
8. Review temporary protection requirements for metal panel systems during and after installation.
9. Review procedures for repair of metal panels damaged after installation.
10. Document proceedings, including corrective measures and actions required, and furnish copy of record to each participant.

1.03 ACTION SUBMITTALS

A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of panel and accessory.

1. Exposed-fastener, lap-seam, metal roof panels.

B. Shop Drawings:

1. Include fabrication and installation layouts of metal panels; details of edge conditions, joints, panel profiles, corners, anchorages, attachment system, trim, flashings, closures, and accessories; and special details.
2. Accessories: Include details of the flashing, trim, and anchorage systems, at a scale of not less than 1-1/2 inches per 12 inches.

C. Samples for Initial Selection: For each type of metal panel indicated with factory-applied color finishes.

1. Include similar Samples of trim and accessories involving color selection.

D. Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below:

1. Metal Panels: 12 inches long by actual panel width. Include fasteners, closures, and other metal panel accessories.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Deliver components, metal panels, and other manufactured items so as not to be damaged or deformed. Package metal panels for protection during transportation and handling.

B. Unload, store, and erect metal panels in a manner to prevent bending, warping, twisting, and surface damage.

C. Stack metal panels horizontally on platforms or pallets, covered with suitable weathertight and ventilated covering. Store metal panels to ensure dryness, with positive slope for drainage of water. Do not store metal panels in contact with other materials that might cause staining, denting, or other surface damage.

D. Retain strippable protective covering on metal panels during installation.

E. Copper Panels: Wear gloves when handling to prevent fingerprints and soiling of surface.

1.05 FIELD CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit assembly of metal panels to be performed according to manufacturers' written instructions and warranty requirements.

1.06 COORDINATION

A. Coordinate sizes and locations of roof curbs, equipment supports, and roof penetrations with actual equipment provided.

B. Coordinate metal panel installation with rain drainage work, flashing, trim, construction of soffits, and other adjoining work to provide a leakproof, secure, and noncorrosive installation.

PART 2 - PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

2.02 EXPOSED-FASTENER, LAP-SEAM, METAL ROOF PANELS

A. Provide factory-formed metal roof panels designed to be installed by lapping side edges of adjacent panels and mechanically attaching panels to supports using exposed fasteners in side laps. Include accessories required for weathertight installation.

B. Tapered-Rib-Profile, Exposed-Fastener Metal Roof Panels : Formed with raised, trapezoidal major ribs and intermediate stiffening ribs symmetrically spaced between major ribs.

1. Basis-of-Design Product: Subject to compliance with requirements, provide product or comparable product by one of the following:
   a. Metal Sales Manufacturing Corporation; CLASSIC RIB® .
2. Metallic-Coated Steel Sheet: Zinc-coated (galvanized) steel sheet complying with ASTM A653/A653M, G90 coating designation, or aluminum-zinc alloy-coated steel sheet complying with ASTM A792/A792M, Class AZ50 coating designation; structural quality. Prepainted by the coil-coating process to comply with ASTM A755/A755M.
   a. Nominal Thickness: 0.022 inch .
   b. Exterior Finish: Two-coat fluoropolymer .
   c. Color: As selected by Owner from manufacturer's full range .
3. Aluminum Sheet: Coil-coated sheet, ASTM B209, alloy as standard with manufacturer, with temper as required to suit forming operations and structural performance required.
   a. Thickness: 0.032 inch .
   b. Surface: Smooth, flat finish.
   c. Exterior Finish: Clear anodized .
   d. Color: As selected by Owner from manufacturer's full range .
4. Major-Rib Spacing: 9 inches o.c.
5. Panel Coverage: 36 inches .
6. Panel Height: 0.75 inch .

2.03 MISCELLANEOUS MATERIALS

A. Miscellaneous Metal Subframing and Furring: ASTM C645; cold-formed, metallic-coated steel sheet, ASTM A653/A653M, G90 hot-dip galvanized coating designation or ASTM A792/A792M, Class AZ50 aluminum-zinc-alloy coating designation unless otherwise indicated. Provide manufacturer's standard sections as required for support and alignment of metal panel system.

B. Panel Accessories: Provide components required for a complete, weathertight panel system including trim, copings, fasciae, mullions, sills, corner units, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal panels unless otherwise indicated.

C. Panel Fasteners: Self-tapping screws designed to withstand design loads. Provide exposed fasteners with heads matching color of metal panels by means of plastic caps or factory-applied coating. Provide EPDM or PVC sealing washers for exposed fasteners.

2.04 FABRICATION

A. Fabricate and finish metal panels and accessories at the factory, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.

B. On-Site Fabrication: Subject to compliance with requirements of this Section, metal panels may be fabricated on-site using UL-certified, portable roll-forming equipment if panels are of same profile and warranted by manufacturer to be equal to factory-formed panels. Fabricate according to equipment manufacturer's written instructions and to comply with details shown.

C. Provide panel profile, including major ribs and intermediate stiffening ribs, if any, for full length of panel.

D. Fabricate metal panel joints with factory-installed captive gaskets or separator strips that provide a weathertight seal and prevent metal-to-metal contact, and that minimize noise from movements.

E. Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's recommendations and recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated.

1. Form exposed sheet metal accessories that are without excessive oil canning, buckling, and tool marks and that are true to line and levels indicated, with exposed edges folded back to form hems.
2. Seams for Aluminum: Fabricate nonmoving seams with flat-lock seams. Form seams and seal with epoxy seam sealer. Rivet joints for additional strength.
3. Seams for Other Than Aluminum: Fabricate nonmoving seams in accessories with flat-lock seams. Tin edges to be seamed, form seams, and solder.
4. Sealed Joints: Form nonexpansion, but movable, joints in metal to accommodate sealant and to comply with SMACNA standards.
5. Conceal fasteners and expansion provisions where possible. Exposed fasteners are not allowed on faces of accessories exposed to view.
6. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal recommended in writing by metal panel manufacturer.
    a. Size: As recommended by SMACNA's "Architectural Sheet Metal Manual" or metal panel manufacturer for application, but not less than thickness of metal being secured.

2.05 FINISHES

A. Protect mechanical and painted finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in same piece are unacceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

C. Steel Panels and Accessories:

1. Two-Coat Fluoropolymer: AAMA 621. Fluoropolymer finish containing not less than 70 percent polyvinylidene fluoride (PVDF) resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
2. Concealed Finish: Apply pretreatment and manufacturer's standard white or light-colored acrylic or polyester backer finish consisting of prime coat and wash coat with a minimum total dry film thickness of 0.5 mil.

D. Aluminum Panels and Accessories:

1. Exposed Anodized Finish:

a. Clear Anodic Finish: AAMA 611, AA-M12C22A31, Class II, 0.010 mm or thicker.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, metal panel supports, and other conditions affecting performance of the Work.

1. Examine primary and secondary roof framing to verify that rafters, purlins, angles, channels, and other structural panel support members and anchorages have been installed within alignment tolerances required by metal roof panel manufacturer.
2. Examine solid roof sheathing to verify that sheathing joints are supported by framing or blocking and that installation is within flatness tolerances required by metal roof panel manufacturer.
   a. Verify that air- or water-resistive barriers have been installed over sheathing or backing substrate to prevent air infiltration or water penetration.

B. Examine roughing-in for components and systems penetrating metal panels to verify actual locations of penetrations relative to seam locations of metal panels before installation.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Miscellaneous Supports: Install subframing, furring, and other miscellaneous panel support members and anchorages according to ASTM C754 and metal panel manufacturer's written recommendations.

3.03 INSTALLATION OF METAL ROOF PANELS

A. Install metal panels according to manufacturer's written instructions in orientation, sizes, and locations indicated. Install panels perpendicular to supports unless otherwise indicated. Anchor metal panels and other components of the Work securely in place, with provisions for thermal and structural movement.

1. Shim or otherwise plumb substrates receiving metal panels.
2. Flash and seal metal panels at perimeter of all openings. Fasten with self-tapping screws. Do not begin installation until air or water-resistive barriers and flashings that are concealed by metal panels are installed.
3. Install screw fasteners in predrilled holes.
4. Locate and space fastenings in uniform vertical and horizontal alignment.
5. Install flashing and trim as metal panel work proceeds.
6. Locate panel splices over, but not attached to, structural supports. Stagger panel splices and end laps to avoid a four-panel lap splice condition.
7. Align bottoms of metal panels and fasten with blind rivets, bolts, or self-tapping screws. Fasten flashings and trim around openings and similar elements with self-tapping screws.
8. Provide weathertight escutcheons for pipe- and conduit-penetrating panels.

B. Fasteners:

1. Steel Panels: Use stainless steel fasteners for surfaces exposed to the exterior; use galvanized-steel fasteners for surfaces exposed to the interior.
2. Aluminum Panels: Use aluminum or stainless steel fasteners for surfaces exposed to the exterior; use aluminum or galvanized-steel fasteners for surfaces exposed to the interior.

C. Metal Protection: Where dissimilar metals contact each other or corrosive substrates, protect against galvanic action as recommended in writing by metal panel manufacturer.

D. Lap-Seam Metal Panels: Fasten metal panels to supports with fasteners at each lapped joint at location and spacing recommended by manufacturer.

1. Lap ribbed or fluted sheets one full rib. Apply panels and associated items true to line for neat and weathertight enclosure.
2. Provide metal-backed washers under heads of exposed fasteners bearing on weather side of metal panels.
3. Locate and space exposed fasteners in uniform vertical and horizontal alignment. Use proper tools to obtain controlled uniform compression for positive seal without rupture of washer.
4. Install screw fasteners with power tools having controlled torque adjusted to compress washer tightly without damage to washer, screw threads, or panels. Install screws in predrilled holes.
5. Flash and seal panels with weather closures at perimeter of all openings.
6. Watertight Installation:
    a. Apply a continuous ribbon of sealant or tape to seal lapped joints of metal panels, using sealant or tape as recommend by manufacturer on side laps of nesting-type panels and elsewhere as needed to make panels watertight.
    b. Provide sealant or tape between panels and protruding equipment, vents, and accessories.
    c. At panel splices, nest panels with minimum 6-inch end lap, sealed with sealant and fastened together by interlocking clamping plates.

E. Horizontal-Seam (Bermuda-Type) Metal Roof Panels: Fasten metal roof panels to supports with concealed clips at each horizontal-seam joint at location, spacing, and with fasteners recommended by manufacturer. Start at eave and work upward toward ridge.

1. Install clips to supports with self-drilling fasteners.

F. Accessory Installation: Install accessories with positive anchorage to building and weathertight mounting, and provide for thermal expansion. Coordinate installation with flashings and other components.

1. Install components required for a complete metal panel system including trim, copings, corners, seam covers, flashings, sealants, gaskets, fillers, closure strips, and similar items. Provide types indicated by metal panel manufacturer; or, if not indicated, provide types recommended in writing by metal panel manufacturer.

3.04 ERECTION TOLERANCES

A. Installation Tolerances: Shim and align metal panel units within installed tolerance of 1/4 inch in 20 feet on slope and location lines and within 1/8-inch offset of adjoining faces and of alignment of matching profiles.

3.05 CLEANING AND PROTECTION

A. Remove temporary protective coverings and strippable films, if any, as metal panels are installed, unless otherwise indicated in manufacturer's written installation instructions. On completion of metal panel installation, clean finished surfaces as recommended by metal panel manufacturer. Maintain in a clean condition during construction.

B. Replace metal panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION

PART 1 - GENERAL

1.01 DESCRIPTION

This section includes materials and installation of markers, labels, and signs for pipes, ducts, and valves; for mechanical equipment; for hazardous materials warnings; and for miscellaneous plant services.

1.02 SUBMITTALS

A. Submit shop drawings in accordance with the Special Provisions.

B. Submit manufacturer's catalog data and descriptive literature describing materials, colors, letter size, and size of labels.

PART 2 - MATERIALS

2.01 HAZARDOUS MATERIALS DANGER SIGNS

Wall signs shall be 7 inches by 10 inches (minimum dimensions), .040-inch-thick aluminum. Provide a sign reading "CAUTION—POTENTIAL EXPOSURE TO OZONE GAS WHEN VALVE IS OPEN" in each location listed below. Products: Brady B-555, or equal.

Equipment Type	Location	Tag Number
3- and 4-inch PVC Ball Valve	Discharge at Outlet Tee on Chemical Storage Tank	
4-inch Plug Valve	Package Thickener	V-252
2-inch Plug Valve	Package Thickener	V-257

PART 3 - EXECUTION

3.01 INSTALLING DANGER SIGNS

A. Attach sign to pipe adjacent to valve with minimum two (2) stainless steel sign mounting brackets and stainless steel sign-mounting hardware, Grainger 1DYJ6, or equal.

END OF SECTION

Council Agenda Report

Department: Public Works
Cost Center: 5301
For Agenda of: 7/16/2024
Placement: Consent
Estimated Time: N/A

FROM: Matt Horn, Public Works Director
Prepared By: Noah Maidrand, Engineer II

SUBJECT: AUTHORIZATION TO ADVERTISE MID-HIGUERA BYPASS PROJECT, SPECIFICATION NO. 2090649

RECOMMENDATION

1. Approve the project plans and special provisions for the Mid-Higuera Bypass, Specification Number 2090649; and,
2. Authorize staff to advertise for bids; and,
3. Authorize the City Manager to award the construction contract pursuant to Section 3.24.190 of the Municipal Code for the bid total, if the lowest responsible bid is within the Engineer's Estimate of $9,400,000; and,
4. Authorize the City Engineer to approve Contract Change Orders up to available project budget and up to any amended budget subsequently approved by the City Manager up to $200,000; and,
5. Appropriate $225,000 in Zone 9 County funding to the project, as recommended by the Zone 9 Advisory Committee and adopted in the County FY24/25 budget; and,
6. Adopt a Draft Resolution entitled, "A Resolution of the City Council of the City of San Luis Obispo, California, authorizing appropriation of Capital Projects Reserve Funds to support the Mid-Higuera Bypass, Specification Number 2090649" to authorize the following:
    a. Authorize the Finance Director to appropriate up to $1,000,000 of LRM funds from the Capital Reserve of the Capital Outlay Fund to Mid-Higuera Bypass (Account 2090649) upon award of the construction contract; and,
    b. Authorize the Finance Director to transfer up to $1,000,000 of LRM funds from Roadway Sealing 2024, Project Account 2000615 to Mid-Higuera Bypass (Account 2090649) upon award of the construction contract; and
7. Authorize the City Manager to execute cost sharing agreements, utility relocation agreements, service fee agreements including payment of services with SoCal Gas, PG&E, and Telecom Services within available project budget; and
8. Authorize the Mayor to execute Public Utility Distribution Easement Agreements with PG&E in a final form satisfactory to the City Attorney.

POLICY CONTEXT

On May 17, 2022, Council approved a Purchasing Policy Update to the Financial Management Manual that required Council approval for Public Projects that cost over $200,000.

The Mid-Higuera Bypass ("Project) was identified in the Council-adopted Waterway Management Plan as a preferred project. The Waterway Management Plan was prepared as part of the San Luis Obispo Creek Waterway Management Program which was created in coordination with the San Luis Obispo County Flood Control and Water Conservation District Zone 9 Advisory Committee (Zone 9 Committee) and adopted by City Council in 2003 (Resolution No. 9494). This followed the requirement from the Army Corp of Engineers to create a comprehensive plan for the SLO Creek Watershed in 1996 after several significant flood events.

DISCUSSION

Background

The Project was identified in the Council adopted Waterway Management Plan as a way to reduce flooding from San Luis Obispo Creek along the Mid-Higuera Corridor (see Figure 1, right). The Mid-Higuera Corridor suffers from frequent flooding from 10-Year storm events (1 in 10 chance every year). The Project will increase flood capacity by 40% during a 25-year storm event and reduce the floodwater surface elevation by 6-18 inches depending upon the location within the project limits. Key project components that will increase flood capacity include:

Figure 1: Mid-Higuera Bypass Project Location

- Excavating over 23,000 cubic yards of soil for flood benches and two bypass channels (see Attachment E) to create additional pathways for flood water.
- Replacing the existing Bianchi Lane Bridge, which was originally constructed in 1905 and is structurally failing, with a new concrete bridge with nearly double the span and an increased surface elevation which will allow more water to flow under during large storm events.
- Removing over 70 trees and shrubs that constrict flow within the creek channel, many of which are non-native and invasive.
- Replanting over 300 native trees and shrubs to provide a healthy riparian habitat and tree canopy.

Project
Staff is recommending approving the project design and advertising the project in order to secure a construction contract by fall of this year, planning for construction work to begin in 2025. The project will need to begin construction following the next rainy season with the majority of work being completed between June 1st and October 1st, 2025, in order to comply with all creek regulatory permits and meet Proposition 1 grant funding deadlines with the State. Staff executed a Proposition 1 grant funding agreement with the State on March 14, 2023, which allocated $6,078,707 in State funding for this project. To meet legislative deadlines under Proposition 1, all work for the project must be completed by March 31, 2026, and no funds may be requested after September 30, 2026. Staff will work concurrently to complete utility relocation and easement acquisition throughout the fall in preparation for construction in 2025.

Utility Relocation
Staff are currently coordinating with utility companies to design and execute the relocation of facilities that conflict with the Project. Staff anticipate relocation costs from PG&E, SoCal Gas, and AT&T will not exceed $600,000. PG&E has submitted the cost of relocation of their facilities not covered under the City Franchise Agreement at $218,565. SoCal Gas and AT&T relocation costs are subject to final design but anticipated to be less than that of PG&E. Staff are requesting delegated authority for the City Manager to execute service fee agreements within available project budget (Recommendation 7).

PG&E Easement
Existing PG&E facilities need to be relocated to accommodate Project construction, as referenced in the paragraph above. The revised alignment for PG&E facilities cross City owned open space. To accommodate this relocation, PG&E requests a no cost easement permitting the right to construct, replace, maintain, and inspect the defined easement area within City Open Space (Attachment D). Further, in executing the easement the City agrees not to place or construct any building or structure within the agreed upon easement areas. Staff is requesting that Council authorize the Mayor to execute this easement agreement with PG&E in a form subject to approval of the City Attorney (Recommendation 8).

SoCal Gas
Existing SoCal Gas facilities need to be relocated to accommodate Project construction, including a buried gas pipeline that currently runs under the Bianchi Lane Bridge which is planned to be demolished and relocated as part of this project. The existing facilities are located across City open space and an adjacent private property on the west side of the creek. SoCal Gas maintains a private easement across both parcels for their existing facilities and claims that the City is liable for all costs incurred for relocating the facilities; however, City staff have countered that since the easement across the City property was not recorded on the property, the relocation work across this parcel would be subject the Franchise Agreement that SoCal Gas executed with the City in 1978, and therefore SoCal Gas would be liable for the cost of the work.

Staff proposes the cost of the facility relocation be shared between the City and SoCal Gas in a manner proportional to the total length of pipe across each parcel. The portion of existing gas line to be relocated that lies on City property is approximately 40% of the total length, while 60% of the existing gas line to be relocated lies on private property over which SoCal Gas maintains a private easement. As such, staff have proposed that the cost of the facility relocation be shared at a rate of 60% City cost to 40% SoCal Gas cost, though final share remains subject to negotiation with SoCal Gas and Staff is requesting that delegated authority be provide to the City Manager to execute the final agreement if within available project funding (Recommendation 7).

Previous Council or Advisory Body Action

- October 2003: Council adopts the Waterway Management Plan, identifying the Mid-Higuera Bypass as a preferred project.
- January 2012: Council appropriates Zone 9 funds for Preliminary Design Services for the Project.
- August 2018: San Luis Obispo County Board of Supervisors certifies the Final SEIR.
- September 2019: Council appropriates additional Zone 9 funds for Final Design Services.
- January 2020: Council authorizes staff to pursue the State Coastal Watershed Flood Risk Reduction Grant for the Project.
- July 2021: Council authorizes staff to pursue the State Urban Flood Protection Grant for the Project.
- July 2022: Council authorizes staff to begin negotiations with property owners to acquire easements necessary to complete the Project.
- October 2022: Planning Commission adopts a Resolution determining the General Plan Conformance of permanent and temporary easements required to complete the Project (GENP-0553-2022).
- November 2022: Council authorizes staff to begin negotiations with additional property owners to acquire easements necessary to complete the Project.
- October 2023: Council authorizes staff to begin negotiations with additional property owners to provide business relocation assistance and acquire public utility easements required to complete the Project.
- May 2024: Council authorizes the Mayor to purchase personal property associated with a business relocation for the Project.
- June 2024: Council adopted the FY 2024-25 Supplemental Budget which allocated an additional $45,000 from the Water Fund for the Project.

Public Engagement

The Zone 9 Advisory Committee recommends specific programs to alleviate and control flood damage, with recognition of the ecological and aesthetic values of the programs. With the purpose and need of the project established in the Waterway Management Plan, the Zone 9 advisory body and community members in attendance have been supportive of the project through its planning, environmental review, and design phases, and have approved yearly funding recommendations to the County Board of Supervisors to support ongoing design and property acquisition work necessary to get the project to the construction phase.

Throughout the planning and design of the Mid-Higuera Bypass Project, Zone 9 Advisory Committee board members and community members have received regular Project updates. Additionally, the project design team and property acquisition consultant have had direct contact with all property owners along the project alignment who will be impacted by construction.

CONCURRENCE

The Project has been reviewed by the Flood Control and Water Conservation District Zone 9, County Staff, the Regional Water Quality Control Board, California Department of Fish and Wildlife, and the Army Corp of Engineers.

The Project plans (Attachment B) and special provisions (Attachment C) have been reviewed and have concurrence from the City Biologist, the Public Works Department, the Utilities Department, and the Community Development Department.

ENVIRONMENTAL REVIEW

A Final Environmental Impact Report for the San Luis Obispo Creek Watershed Waterway Management Plan was certified in 2003 (State Clearinghouse Number 2002091075). A Final (SEIR) for the Mid-Higuera Bypass was prepared by County staff focusing on the following mitigations: biological resources, cultural resources, air quality, visual resources, hazardous materials, drainage/erosion and sedimentation, and noise. On August 21, 2018, San Luis Obispo County Board of Supervisors certified the SEIR. SEIR State Clearinghouse Number is SCH2016021077. The Project plans and special provisions have been prepared in accordance with the required mitigation measures as determined in the SEIR.

The City has acquired all necessary permits to complete the Project from the Regional Water Quality Control Board, California Department of Fish and Wildlife, and the Army Corp of Engineers.

FISCAL IMPACT

Budgeted: Yes
Budget Year: 2024-25
Funding Identified: Yes

Fiscal Analysis:

Funding Sources	Total Budget Available*	Current Funding Request	Remaining Balance	Annual Ongoing Cost
General Fund (LRM)	$3,420,505.23	$1,000,000	$0	$0
State	$6,078,707	$0	$0	$0
Federal	$0	$0	$0	$0
Fees	$0	$0	$0	$0
Zone 9	$1,349,118.30	$225,000	$0	$0
Water Fund	$145,000	$0	$0	$0
Capital Reserve Fund (LRM)	$4,010,000	$1,000,000	$3,010,000	$0
Total	**$15,003,330.53**	**$2,250,000**	**$3,010,000**	**$0**

**Including Supplemental Budget Allocations*

Mid-Higuera Bypass Project, Specification 2090649							
	Mid-Higuera Bypass (2090649)				Roadway Sealing 2024 (2000615)	Capital Reserve	Project Total Cost
	Capital Outlay Fund - LRM	Water Fund	County Zone 9 Funding	State Grant Funding	Capital Outlay Fund - LRM		
Engineer's Estimate	$402,175	$145,000	$1,274,118	$5,828,707	$750,000	$1,000,000	$9,400,000
Contingency (10%)	$976,331	$0	$0	$0	$0	$0	$976,331
Total Construction Estimate	**$1,378,505**	**$145,000**	**$1,274,118**	**$5,828,707**	**$750,000**	**$1,000,000**	**$10,376,331**
Utility Relocation	$600,000	$0	$0	$0	$0	$0	$600,000
Property Acquisition	$290,000	$0	$0	$0	$0	$0	$290,000
Design Administration and Support	$0	$0	$75,000	$0	$0	$0	$75,000
Construction Management/Monitoring	$1,150,000	$0	$0	$250,000	$250,000	0	$1,650,000
Printing	$2,000	$0	$0	$0	$0	$0	$2,000
Total Project Cost	**$3,420,505**	**$145,000**	**$1,349,118**	**$6,078,707**	**$1,000,000**	**$1,000,000**	**$12,993,331**
Percentage of Project Cost	**26%**	**1%**	**10%**	**47%**	**8%**	**8%**	**100%**
Available Project Funding							
Current Account Balance	$570,505	$100,000	$1,124,118	$6,078,707	$0	$10,000	$7,883,331
Additional Funding in 24/25 FY	$2,850,000	$45,000	$225,000	$0	$5,523,775	$4,000,000	$12,643,775
Total Available Budget	$3,420,505	$145,000	$1,349,118	$6,078,707	$5,523,775	$4,010,000	$20,527,106

Construction Cost Breakdown	
Project Element	**Cost**
Site Management and Permit Compliance	$ 1,100,000
Bypass Channel Grading	$ 1,100,000
Bench & Creek Bank Stabilization Grading	$ 1,400,000
Marsh Street Sediment Removal	$ 100,000
Bianchi Lane Bridge Replacement & Roadway Improvements	$ 4,755,000
Riparian Enhancement and Habitat Restoration	$ 800,000
City-Owned Utility Relocation	$ 145,000
Total Construction Cost	**$ 9,400,000**

To date, approximately $1,530,000 has been spent towards Project design and easement acquisition from 2012 to present, with approximately $105,000 in remaining design encumbrance.

The 2023-25 Financial Plan allocated an additional $2,850,000 in LRM Funds at the start of the 24-25 Fiscal Year to supplement the construction budget and meet our state grant required match fund limits. The FY 2024-25 Supplemental Budget allocated an additional $45,000 from the Water Fund to account for increased Project costs associated with City-owned utility relocation. At that time, staff were anticipating a significant increase in project cost that exceeded the available budget, but did not have sufficient information available to fully itemize all pertinent costs such as construction management and easement acquisition costs. Since the Project estimate was still being developed, the Supplemental Budget identified that additional funding beyond the allocated $45,000 would be requested from Council once costs could be finalized.

An additional $225,000 was allocated by the Zone 9 Committee to help supplement escalated construction costs at the start of the 24-25 Fiscal Year. Staff is recommending Council appropriate this funding to the project account to supplement construction costs (Recommendation 5). Only specific items of work[1] are eligible for Zone 9 reimbursement, and the cost of these items is evaluated at the end of each calendar year with the Zone 9 Committee. $225,000 was determined to be the amount of construction cost escalation for these items of work since the previous Zone 9 allocation. After bids are received, staff will review the eligible reimbursement items to determine the total of those costs. If the cost of those items exceeds the current Zone 9 funding allocation, staff will have another opportunity to request a funding supplement in Fall 2025, which would be appropriated with the County's FY25/26 budget.

Staff is recommending appropriating $1,000,000 of Local Revenue Measure funds from the Capital Reserve fund to support construction of the Project per the Draft Resolution (Attachment A) (Recommendation 6a).

[1] Eligible construction items for Zone 9 reimbursement include: removal of invasive plant species, pruning of trees and roots, tree removal, trash and debris removal, sediment removal, planting & plant establishment work.

On June 20, 2024, the Roadway Sealing 2024, Specification No. 2000615 received bids significantly lower than the engineer's estimate. Upon award of the construction contract in July of 2024, staff anticipate realized remaining project budget. The anticipated Roadway Sealing 2024 cost following the award to the low bidder is $3,773,246 and the account balance (2000615) is $6,741,783, leaving a remaining balance of $2,968,537 in LRM funds. Staff is recommending transferring $1,000,000 from the Roadway Sealing 2024, project account 2000615 per the Draft Resolution (Recommendation 6b).

The increase in overall cost of the Project since the 2023-25 Financial Plan is primarily due to construction cost escalation of Bianchi Lane bridge replacement and property value increases related to utility relocation and property easement acquisition.

ALTERNATIVES

1. ***Deny the approval to advertise the Project***. City Council could choose to deny authorization to advertise this project. Staff does not recommend this alternative as the Project is part of the Waterway Management Plan previously adopted by Council. Furthermore, the City received grant funding that must be expended by 2026 and therefore must advertise the project at this time in order to complete construction before the grant deadline.
2. ***Deny the allocation of additional LRM funds*****.** City Council could choose to deny the appropriation of LRM funds from the Capital Reserve Fund Balance and Roadway Sealing 2024 project account until contract award. Staff does not recommend this alternative as a construction contract could not be awarded without additional City funds and this would further increase the risk that the project will not meet the construction timeline.
3. ***Deny delegated authority to enter into cost sharing agreement with SoCal Gas*****.** City Council could choose to deny the delegated authority for the City Manager to enter into a cost sharing agreement with SoCal Gas and require staff to return to Council once the final terms of the agreement have been negotiated. This is not recommended because SoCal Gas must relocate their facilities well in advance of the project entering construction, and there is likely insufficient time to do so due to project schedule constraints of working within the creek.

ATTACHMENTS

A - 2090649 Mid-Higuera Bypass Plans
B - 2090649 Mid-Higuera Bypass Special Provisions
C - Draft Resolution to Appropriate Capital Reserve Funds
D - Draft Utility Distribution Easement for City Open Space
E - Site Overview

RESOLUTION NO. _____ (2024 SERIES)

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SAN LUIS OBISPO, CALIFORNIA, AUTHORIZING APPROPRIATION OF CAPITAL PROJECTS RESERVE FUNDS TO SUPPORT THE MID-HIGUERA BYPASS, SPECIFICATION NUMBER 2090649

WHEREAS, in October of 2003, Council adopted the Waterway Management Plan identifying the Mid-Higuera Bypass project ("Project) as a preferred project; and

WHEREAS, since January of 2012, the Flood Control and Water Conservation District Zone 9 County Advisory Board have provided funding to support Planning, Environmental Review, and Design Services of the Project; and

WHEREAS, in September of 2013, City entered into a reimbursement agreement with the Flood Control and Water Conservation District Zone 9 for the development and construction of projects identified in the Waterway Management Plan; and

WHEREAS, in January of 2020, Council authorized staff to pursue the State Coastal Watershed Flood Risk Reduction Grant to supplement construction funding for the Project; and

WHEREAS, in March of 2023, the City entered into a funding agreement with the State of California Department of Water Resources for the Mid-Higuera Bypass Project as part of the Coastal Watershed Flood Risk Reduction Program for up to $6,078,707; and

WHEREAS, the approved 2023-25 Financial Plan designated $1,250,000 of Local Revenue Measure funding and $1,400,000 of Zone 9 funding toward the project for the 2023-24 Fiscal Year and an additional $2,850,000 or LRM funding toward the Project for the 2024-25 Fiscal Year; and

WHEREAS, the Flood Control and Water Conservation District Zone 9 County Advisory Board program allocated an additional $225,000 of Zone 9 Funding toward the Project for FY24/25; and

WHEREAS, the approved 2024-25 Supplemental Budget designated an additional $45,000 from the Water Fund toward the Project for the 2024-25 Fiscal Year; and

WHEREAS, City staff has requested $1,000,000 to be appropriated from Capital Projects Reserve Fund upon award of a construction contract to supplement project costs; and

WHEREAS, a balance of approximately $4,010,000 is available from the Capital Projects Reserve Fund; and

WHEREAS, Staff anticipate realized savings within the Roadway Sealing 2024 project, Specification Number 2000615 of greater than $2,000,000 upon award of the construction contract; and

WHEREAS, Staff are requesting Finance Director authority to approve the transfer of up to $1,000,000 of LRM funds from Roadway Sealing 2024 upon award of a construction contract to supplement project costs; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of San Luis Obispo as follows:

SECTION 1. The 2024-25 budget is hereby amended to appropriate $225,000 of Zone 9 funding to Mid-Higuera Bypass, Specification No. 2090649 upon award of a construction contract.

SECTION 2. The City Council authorizes the Finance Director to appropriate up to $1,000,000 from the Capital Reserve Fund to Mid-Higuera Bypass, Specification No. 2090649 upon award of a construction contract.

SECTION 3. The City Council authorizes the Finance Director to appropriate up to $1,000,000 from the Roadway Sealing 2024, Specification No. 2000615 to Mid-Higuera Bypass, Specification No. 2090649 upon award of a construction contract.

Upon motion of _____, seconded by _____, and on the following roll call vote:

AYES:
NOES:
ABSENT:

The foregoing resolution was adopted this _____ day of _____ 2024.

_____
Mayor Erica A. Stewart

ATTEST:

_____
Teresa Purrington
City Clerk

APPROVED AS TO FORM:

_____
J. Christine Dietrick
City Attorney

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the City of San Luis Obispo, California, on _____.

_____
Teresa Purrington
City Clerk

GENERAL NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR PERMITTEE TO CONTACT "UNDERGROUND SERVICE ALERT U.S.A." TOLL FREE AT 1-800-227-2600 FORTY-EIGHT (48) HOURS PRIOR TO START OF CONSTRUCTION, FOR LOCATION OF POWER, TELEPHONE, OIL AND NATURAL GAS UNDERGROUND FACILITIES. CONTRACTOR OR PERMITEE SHALL ALSO CONTACT THE APPROPRIATE AGENCY FOR THE LOCATION OF CABLE T.V., WATER, SEWER, DRAINAGE OR UNDERGROUND FACILITIES.
2. THE CONTRACTOR SHALL POSSESS A CLASS "A" LICENSE AT THE TIME OF BID OPENING.
3. MULTIPLE CONTOUR INTERVALS ARE SHOWN HEREON BASED ON THE QUANTITY AND QUALITY OF DATA COMPILED FROM GROUND SURVEY AND PHOTOGRAMMETRIC SOURCES. THIS IS DUE TO AREAS BEING OBSTRUCTED FROM THE AIR BY TREE CANOPIES OR A LACK OF GROUND SURVEY DENSIFICATION TO DATE. THE REGIONS THAT ARE NOT 1 FOOT CONTOUR INTERVALS ARE DELINEATED BY A BOUNDARY AROUND THE PERIMETER OF THE REGION AND A NUMBER INDICATING THE CONTOUR INTERVAL SHOWN WITHIN THAT REGION.

ENGINEERS & CONSULTANTS

CIVIL ENGINEER
WALLACE GROUP
612 CLARION CT
SAN LUIS OBISPO, CA 93401
CONTACT: VALERIE HUFF
PH: 805-544-4011 x182
EMAIL: VALERIEH@WALLACEGROUP.US

GEOTECHNICAL ENGINEER
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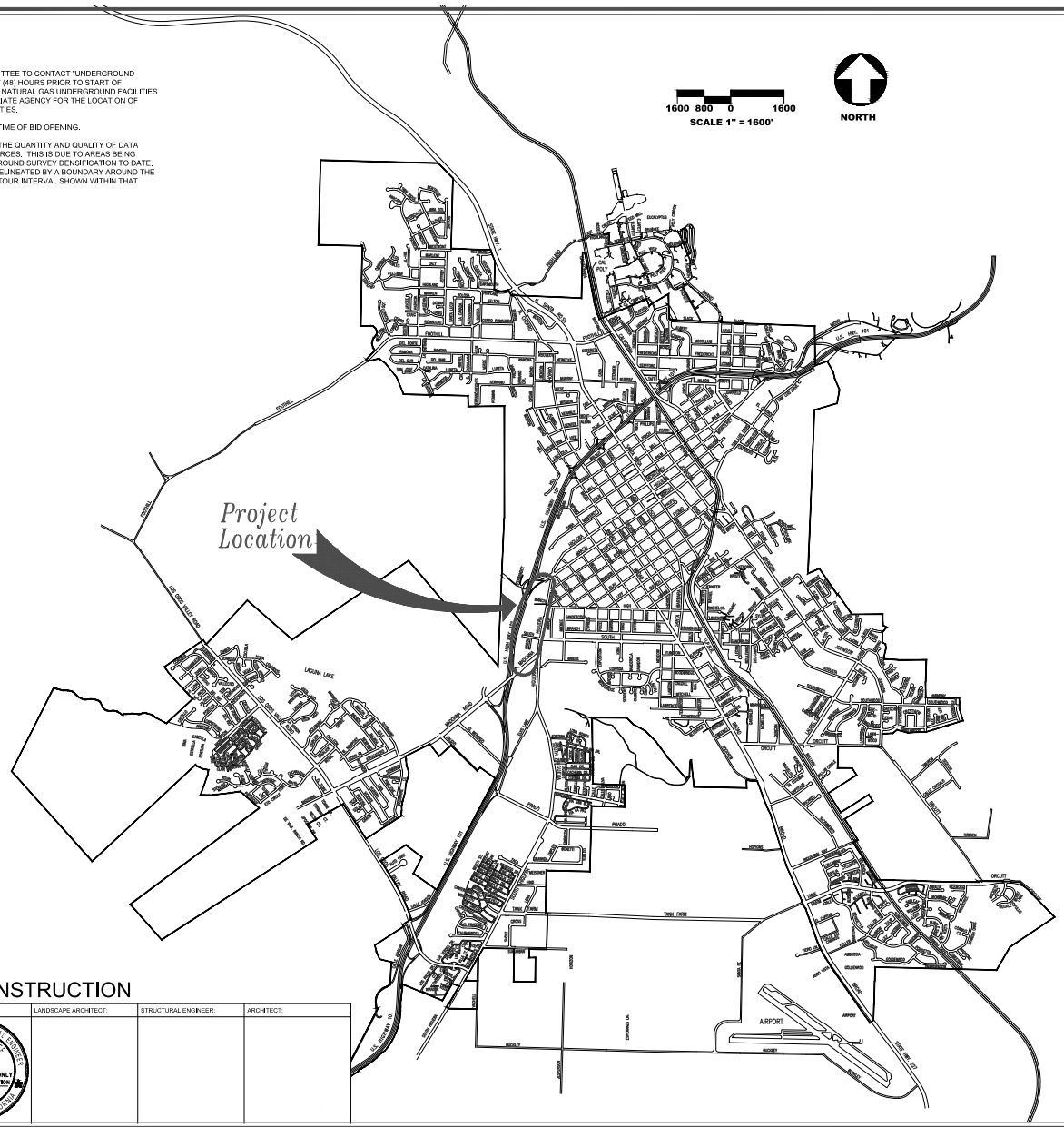
391 FRONT STREET, SUITE D
GROVER BEACH, CA 93433
CONTACT: JUDD KING
PH: 805-481-9590
EMAIL: JKING@YEH-ENG.COM

STRUCTURAL ENGINEER
CONSOR NORTH AMERICA
10117 COBBLEROCK DR, SUITE 100
RANCHO CORDOVA, CA 95670
CONTACT: SCOTT MCCAULEY
PH: 530-400-2946
EMAIL: SCOTT.MCCAULEY@CONSORENG.COM

ARCHITECT
HUNTER SMITH ARCHITECTURE
860 WALNUT ST, SUITE B
SAN LUIS OBISPO, CA 93401
CONTACT: DANA HUNTER
PH: 805-544-3380
EMAIL: DANA@HUNTERSMITHARCHITECTURE.COM



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C-2	SITE PLAN
C-3	ORDER OF WORK
C-4	ORDER OF WORK
C-5	PROJECT CONTROL STA 10+00.00 TO 20+00.00
C-6	PROJECT CONTROL STA 20+00.00 TO 30+00.00
C-7	PROJECT CONTROL STA 30+00.00 TO 36+50.00
C-8	PROJECT CONTROL STA 36+50.00 TO 42+00.00
C-9	PROJECT CONTROL STA 42+00.00 TO 46+15.18
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C-12	BIANCHI LANE BYPASS PLAN & PROFILE
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C-17	SOUTH STREET BYPASS RSP
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C-37	EXISTING TREE PLAN
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san luis obispo county, california

MID-HIGUERA BYPASS

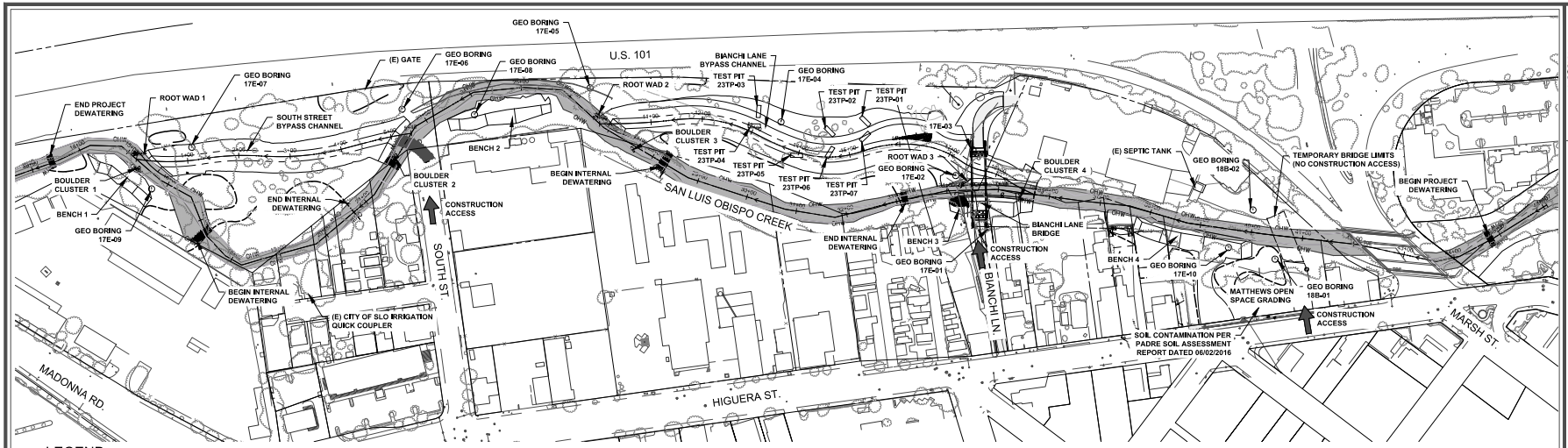
APPROVED BY

Brian A. Nelson, City Engineer *R.C.E. C79870* *Approved Date*

PRELIMINARY NOT FOR CONSTRUCTION

CONSULTANT NAME:	ENGINEER OF RECORD:	LANDSCAPE ARCHITECT:	STRUCTURAL ENGINEER:	ARCHITECT:
WALLACE GROUP® CIVIL AND TRANSPORTATION ENGINEERING CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PLANNING PUBLIC WORKS ADMINISTRATION SURVEYING / GIS SOLUTIONS WATER RESOURCES 612 CLARION COURT SAN LUIS OBISPO, CA. 93401 T 805.544-4011 F 805.544-4294 www.wallacegroup.us	REGISTERED PROFESSIONAL ENGINEER VALERIE G. HUFF No. 72426 FOR PLAN REVIEW ONLY NOT FOR CONSTRUCTION CIVIL STATE OF CALIFORNIA			

SPECIFICATION NO.	DATE	SHEET
2090649	6/11/2024	C-1 of 65



LEGEND

○	GEOTECH BORING (PROJECT NO. 217-172)
● 100	(E) TREE AND TAG NUMBER
⊗	REMOVE (E) TREE
● NT	(E) TREE WITHOUT TAG
○	(E) TREE, SEE NOTE PER EXISTING TREE PLAN
△	SURVEYED ORDINARY HIGH WATER MARK FLAGS
	TEMPORARY HIGH VISIBILITY FENCE
	PROPOSED GRADING LIMIT
	BYPASS CHANNEL TOE
TOE	(E) TOE OF SLOPE
OHW	ORDINARY HIGH WATER MARK LIMIT
	FLOWLINE
150	FINISHED GRADE CONTOUR
150	(E) GRADE CONTOUR
	ORDINARY HIGH WATER (OHW)
	PROPOSED RSP
	(N) HMA PAVING
	(E) CONCRETE SACK WALL
	PARCEL LINE FROM CITY GIS
WL	(E) WATER LINE
SS	(E) GRAVITY SEWER LINE
SD	(E) STORM DRAIN
GAS	(E) UNDERGROUND GAS LINE
O/H	(E) OVERHEAD UTILITY LINE LOCATION
ELE	(E) UNDERGROUND ELECTRICAL LINE
CTV	(E) UNDERGROUND CABLE TELEVISION LINE
TEL	(E) UNDERGROUND TELEPHONE LINE
SD	PROPOSED STORM DRAIN
SS	PROPOSED GRAVITY SEWER LINE
WL	PROPOSED WATER LINE
GAS	PROPOSED GAS LINE
O/H	PROPOSED OVERHEAD LINE
TEL	PROPOSED UNDERGROUND TELEPHONE LINE
CTV	PROPOSED UNDERGROUND CABLE LINE

GENERAL NOTES

1. ALL WORK SHALL BE WITHIN CITY RIGHT-OF-WAY AND THE EXISTING PRIVATE PROPERTY EASEMENTS SHOWN ON THESE PLANS. REFER TO THE HORIZONTAL CONTROL SHEETS FOR EASEMENT LOCATIONS.
2. ENVIRONMENTAL MONITORING WILL BE PERFORMED BY A MONITOR RETAINED BY THE CITY TO WORK IN CONJUNCTION WITH THE PROJECT.
3. DUST CONTROL SHALL BE IN ACCORDANCE WITH CALTRANS STANDARD SPECIFICATIONS 14-9.03 "DUST CONTROL" AND APCD REQUIREMENTS.
4. EROSION CONTROL SHALL BE IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS 21 "EROSION CONTROL".
5. THE CONTRACTOR WILL NOT BE ALLOWED TO USE WATER FROM THE CITY WATER MAINS. RECYCLED WATER IS AVAILABLE FOR USE AT THE RECYCLED WATER HYDRANTS LOCATED WITHIN THE CITY LIMITS AT VARIOUS LOCATIONS. USE OF THE RECYCLED WATER IS SUBJECT TO THE CONDITIONS OF THE RECYCLED-WATER PROGRAM AND COMPLETION OF REQUIRED TRAINING.
6. GEOTECHNICAL BORING LOCATIONS SHOWN ARE APPROXIMATE, AND WERE PROVIDED BY YEH AND ASSOCIATES, INC. BORING LOGS ARE INCLUDED IN THE GEOTECHNICAL REPORT FOR THE MID-HIGUERA BYPASS CHANNEL PROJECT PREPARED BY YEH AND ASSOCIATES, INC. AS AN ATTACHMENT TO SPECIAL PROVISIONS.
7. LIMITS AND EXTENTS OF STAGING AREA WILL BE REVIEWED AND APPROVED BY ENGINEER
8. ALL WORK LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY OR WITHIN THE JURISDICTION OF THE UTILITIES AND PUBLIC WORKS DEPARTMENTS SHALL COMPLY WITH THE MOST CURRENT EDITION OF THE ENGINEERING STANDARDS AND STANDARD SPECIFICATION. (THE CURRENT ADOPTED STANDARDS ARE DATED AUGUST 2020.)
9. ANY SECTIONS OF DAMAGED OR DISPLACED CURB, GUTTER & SIDEWALK OR DRIVEWAY APPROACH SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE PUBLIC WORKS DIRECTOR.
10. A SEPARATE ENCROACHMENT PERMIT IS REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY, WITHIN CITY EASEMENTS, OR FOR CONNECTIONS TO PUBLIC UTILITIES. WORK REQUIRING AN ENCROACHMENT PERMIT INCLUDES BUT IS NOT LIMITED TO DEMOLITIONS, UTILITIES, WATER, SEWER, AND FIRE SERVICE LATERALS. CURB, GUTTER, AND SIDEWALK, DRIVEWAY APPROACHES, SIDEWALK UNDERDRAINS, STORM DRAIN IMPROVEMENTS, STREET TREE PLANTING OR PRUNING, CURB RAMPS, STREET PAVING, AND PEDESTRIAN PROTECTION OR CONSTRUCTION STAGING IN THE RIGHT-OF-WAY.
11. CONTACT THE PUBLIC WORKS INSPECTION HOTLINE AT 781-7554 WITH AT LEAST A 48-HOUR NOTICE FOR ANY REQUIRED ENCROACHMENT PERMIT INSPECTION OR FINAL INSPECTION.
12. THE ADJOINING STREET SHALL BE CLEANED BY SWEEPING TO REMOVE DIRT, DUST, MUD AND CONSTRUCTION DEBRIS AT THE END OF EACH DAY.
13. A TRAFFIC AND PEDESTRIAN CONTROL PLAN SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT FOR REVIEW.
14. ANY EXISTING SURVEY MONUMENTS SHALL BE PROTECTED IN PLACE OR SHALL BE TIED OUT BY A LICENSED LAND SURVEYOR PRIOR TO DISTURBANCE AND THEN REPLACED PRIOR TO OCCUPANCY IN ACCORDANCE WITH SECTION 8771 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE.
15. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AND MAINTAINED TO THE SATISFACTION OF THE BUILDING OFFICIAL AND PUBLIC WORKS DIRECTOR DURING ALL DEMOLITION, GRADING, OR CONSTRUCTION AND GROUND DISTURBING ACTIVITIES.

GRADING NOTES

1. ALL PERMANENT CUT AND FILL SLOPES SHALL BE NO STEEPER THAN 2.5 HORIZONTAL TO 1.0 VERTICAL UNLESS OTHERWISE NOTED.
2. ALL GRADING AND SITE WORK SHALL BE DONE IN ACCORDANCE WITH THE GRADING ORDINANCE OF THE CITY OF SAN LUIS OBISPO, CITY STANDARD SPECIFICATIONS, AND THE SOILS REPORT. IN THE CASE OF CONFLICT BETWEEN THE PRECEDING REQUIREMENTS AND THESE PLANS, THE MORE STRINGENT SHALL GOVERN.

POTENTIALLY HAZARDOUS MATERIALS
BIANCHI BRIDGE - SEE BRIDGE PLANS
EXISTING GAS LINE (ASBESTOS WRAP)
NATURALLY OCCURRING ASBESTOS
LEAD - MATTHEWS OPEN SPACE, 306 HIGUERA
HYDROCARBONS - MATTHEWS OPEN SPACE

VEGETATION NOTES

1. PROTECT ALL TREES IN PLACE UNLESS NOTED ON PLANS FOR REMOVAL, IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS 77-1.03A(2) "TREE PROTECTION".
2. PRIOR TO REMOVING OR TRIMMING VEGETATION, IT IS THE CONTRACTORS RESPONSIBILITY TO MARK TREES FOR REMOVAL. THE CITY WILL VERIFY PRIOR TO REMOVAL.
3. ALL DISTURBED AREAS SHALL HAVE EROSION CONTROL HYDROSEEDING, UNLESS OTHERWISE SPECIFIED ON THESE PLANS.
4. NEW VEGETATION SHALL BE IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS 20-3 "PLANTING".
5. CONTRACTOR SHALL ESTABLISH AND CONTINUALLY MAINTAIN ALL NEWLY PLANTED AREAS FOR THREE YEARS IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND CITY STANDARD SPECIFICATIONS 20-4 "PLANT ESTABLISHMENT WORK".
6. AT CONTRACTOR'S OPTION, ALL EXISTING ROOTS BELOW VERTICAL LIMITS OF GRADING MAY REMAIN
7. REMOVE AND DISPOSE OF INVASIVE PLANT SPECIES AND TRASH WITHIN THE PROJECT LIMITS. SEE SPECIAL PROVISIONS SECTION 14-6.05.
8. CONTACT THE CITY ARBORIST AT 781-7023 TO REVIEW THE PROPOSED TREE PROTECTION MEASURES PRIOR TO COMMENCING WITH ANY DEMOLITION, GRADING, OR CONSTRUCTION. ANY SAFETY PRUNING OR THE CUTTING OF SUBSTANTIAL ROOTS SHALL BE APPROVED BY THE CITY AND COMPLETED BY A CITY-APPROVED ARBORIST. CONTACT THE CITY ARBORIST AT 781-7023 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION IN AREAS WHERE TREE PROTECTION AND INSPECTION IS REQUIRED.
9. HAND DIGGING IS REQUIRED WITHIN THE DRIP LINE OF TREES TO REMAIN; ANY EXPOSED ROOTS SHALL BE OBSERVED BY CITY ARBORIST BEFORE REMOVING. CONTACT CITY ARBORIST AT 781-7023 BEFORE COMMENCING WITH CONSTRUCTION, GRADING, OR EXCAVATIONS.

NORTH

UTILITY REPRESENTATIVE			
UTILITY	PROVIDER	CONTACT	PHONE
TELEPHONE	AT&T	NEIL ZAKARIA	(805) 546-7012
CABLE	CHARTER COMMUNICATIONS	RYAN SCHWIEBERT	(805) 783-4942
SEWER/STORM	CITY OF SAN LUIS OBISPO	JEREMY GEARHARD	(805) 781-7033
WATER	CITY OF SAN LUIS OBISPO	MARCUS HENDERSON	(805)781-7035
GAS	SOCAL GAS	JASON LEWIS	(805) 681-7939
ELECTRICITY	PG&E	ESTEBAN MACIAS	(805) 256-2150
U.S.A.	UNDERGROUND SERVICE ALERT		811

811 Know what's below. Call before you dig.

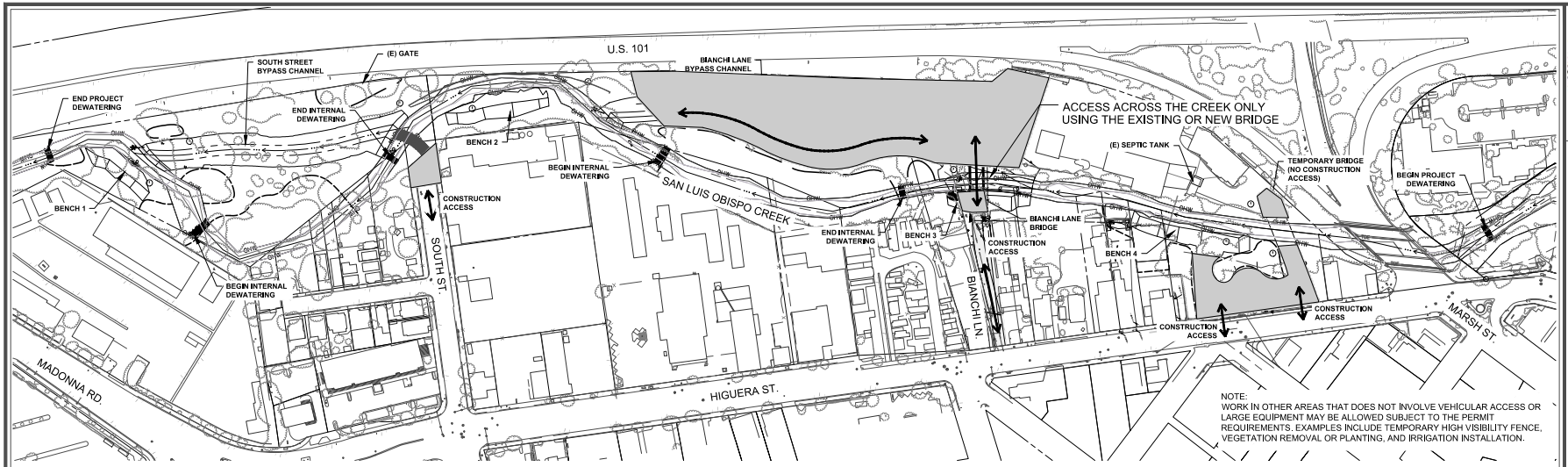
CITY OF SAN LUIS OBISPO

PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: SITE PLAN

REGISTERED PROFESSIONAL ENGINEER VALERIE C. HUFF No. 72426 FOR PLAN REVIEW ONLY NOT FOR CONSTRUCTION CIVIL STATE OF CALIFORNIA

DESIGNED BY:	VGH
DRAWN BY:	CK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	1" = 100'
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	0061-0091 SITE.dwg
SHEET NO.	C-2 of 65



CONSTRUCTION WORK AREAS OUTSIDE OF DEWATERING PERIOD
OCTOBER 16 - MAY 30

LEGEND

- ALLOWED CONSTRUCTION WORK AREAS, OCTOBER 16 - MAY 30
- ALLOWED CONSTRUCTION ACCESS ROUTES
- OHW — ORDINARY HIGH WATER MARK LIMIT

NORTH

THIS PAGE SUMMARIZES SCHEDULING REQUIREMENTS OF THE PERMITS, THE SPECIAL PROVISIONS, AND OTHER SUPPLEMENTAL PROJECT INFORMATION. REFER TO THE SPECIAL PROVISIONS AND SUPPLEMENTAL PROJECT INFORMATION FOR ADDITIONAL DETAILS.

INITIAL ACTIVITIES

1. SUBMIT REQUIRED CONSTRUCTION SCHEDULE FOR APPROVAL
2. COORDINATE ENVIRONMENTAL PRECONSTRUCTION SURVEYS
3. COORDINATE WORK BY OTHERS, INCLUDING UTILITIES AND CITY BIOLOGIST
4. ENVIRONMENTAL TRAINING OF CONSTRUCTION PERSONNEL
5. INSTALL TEMPORARY HIGH VISIBILITY FENCING

BIANCHI LANE BRIDGE - USE OF EXISTING BRIDGE

PRIOR TO REMOVAL, THE EXISTING BIANCHI LANE BRIDGE MAY BE USED FOR CONSTRUCTION ACCESS. COMPLY WITH THE LOAD RATING OF THE BRIDGE (REFER TO SPECIAL PROVISIONS).

BIANCHI LANE BRIDGE - REMOVAL OF EXISTING BRIDGE, FOOTINGS, AND ABUTMENTS

THE CREEK AREA UNDER THE BRIDGE MUST BE DEWATERED BEFORE BRIDGE REMOVAL.

MAINTAIN ACCESS AND UTILITY SERVICE TO THE EXISTING PRIVATE PROPERTY (APN 002-482-071) DURING CONSTRUCTION. PRIOR TO REMOVAL OF THE EXISTING BIANCHI LANE BRIDGE, THE FOLLOWING MUST BE COMPLETED. COORDINATE THE WORK BY OTHERS AND COMPLETE THE INSTALLATIONS NEEDED.

1. CONSTRUCT THE TEMPORARY BRIDGE AND MATTHEWS PARK CONSTRUCTION ACCESS.
2. CONSTRUCT THE TEMPORARY WATER SERVICE TO THE PRIVATE PROPERTY.
2. COORDINATE WITH OTHERS TO REMOVE AND DISPOSE OF THE EXISTING ABANDONED GAS LINE.
3. DO NOT REMOVE THE EXISTING BRIDGE PRIOR TO APPROVAL FROM THE ENGINEER.

TEMPORARY BRIDGE

1. THE TEMPORARY BRIDGE IS FOR TEMPORARY PRIVATE USE BY THE LANDOWNER AND IS NOT A CONSTRUCTION ACCESS.
2. THE TEMPORARY BRIDGE MAY BE INSTALLED AND REMOVED OUTSIDE OF THE DEWATERING PERIOD, IF ALL WORK IS DONE OUTSIDE OF THE EXISTING TOP OF CREEK BANKS.
3. DO NOT INSTALL THE TEMPORARY BRIDGE PRIOR TO APPROVAL FROM THE ENGINEER.
4. DO NOT REMOVE THE TEMPORARY BRIDGE PRIOR TO APPROVAL FROM THE ENGINEER.

DEWATERED CREEK AREAS

DURING THE CREEK DEWATERING PERIOD, CONSTRUCTION ACTIVITIES SHOWN ON THESE DRAWINGS MAY BE PERFORMED WITHIN THE CREEK DEWATERING AREAS. THE DEWATERED AREAS MAY ALSO BE USED FOR CONSTRUCTION ACCESS, AND TEMPORARY ACCESS ROUTES MAY BE ESTABLISHED AS SHOWN ON THE DRAWINGS OR AS APPROVED BY THE ENGINEER. SEE SPECIAL PROVISIONS FOR ENVIRONMENTAL PROTECTION REQUIREMENTS.

NON-DEWATERED CREEK AREAS (RESTRICTED WORK AREAS)

INSTALL TEMPORARY HIGH VISIBILITY FENCING TO ISOLATE THE NON-DEWATERED CREEK AREAS FROM CONSTRUCTION ACTIVITIES NOT ALLOWED BY THE PERMITS. LIMIT ACTIVITIES IN THE NON-DEWATERED CREEK AREAS TO THOSE ALLOWED BY THE PERMITS, INCLUDING THE FOLLOWING:

1. HAND TOOLS, INCLUDING POWER TOOLS
2. WORK ABOVE THE WATER SURFACE
3. VEGETATION REMOVAL
4. VEGETATION PLANTING
5. TEMPORARY IRRIGATION SYSTEM INSTALLATION, AT OR ABOVE EXISTING GRADE

PERMIT WORK PERIODS

THE TABLE BELOW SUMMARIZES SCHEDULING REQUIREMENTS OF THE PERMITS AND INFORMATION PROVIDED IN THE SUPPLEMENTAL PROJECT INFORMATION. REFER TO THE SPECIAL PROVISIONS FOR ADDITIONAL DETAILS AND COMPLY WITH ALL REQUIREMENTS.

PERIOD	DESCRIPTION
MARCH 1 TO SEPTEMBER 1	NESTING BIRD SEASON (BR-MM 21)
JUNE 1 TO OCTOBER 15	CREEK DEWATERING PERIOD (BR-MM 2)
SEPTEMBER 15 TO MARCH 15	MONARCH BUTTERFLY WINTERING PERIOD (BR-MM 8)

WORK AREAS NOT RESTRICTED BY PERMITS ARE ALLOWED ACCESS YEAR-ROUND AND INCLUDE THE SHADED AREAS SHOWN ON THIS SHEET.

NESTING BIRD SEASON (FEIR BR-MM 21)

SCHEDULE THE WORK TO PRIORITIZE ACCOMPLISHING VEGETATION REMOVAL AND EARTH DISTURBANCE OUTSIDE OF THE NESTING BIRD SEASON.

IF WORK IS NECESSARY DURING THE NESTING BIRD SEASON, YOU MUST COORDINATE WITH THE CITY-SUPPLIED BIOLOGIST AND COMPLY WITH THE REQUIRED BUFFER ZONES. INSTALL FENCING, SIGNS, OR ROPES AS REQUIRED BY THE CITY-SUPPLIED BIOLOGIST TO MARK THE BUFFER ZONES.

CREEK DEWATERING PERIOD (FEIR BR-MM 2)

SCHEDULE THE WORK TO ACCOMPLISH ALL WORK REQUIRING CREEK DEWATERING, CREEK CROSSINGS, OR WORK IN THE CHANNEL BED TO THE PERIOD FROM JUNE 1 TO OCTOBER 15. UPSTREAM AND DOWNSTREAM PASSAGE FOR FISH, INCLUDING JUVENILE STEELHEAD, MUST BE PROVIDED THROUGH OR AROUND CONSTRUCTION SITES AT ALL TIMES.

COORDINATE THE CREEK DEWATERING WITH THE CITY-SUPPLIED BIOLOGIST, AND DO NOT PROCEED WITH WORK IN THE CREEK UNTIL AUTHORIZED IN WRITING BY THE ENGINEER.

MONARCH BUTTERFLY WINTERING PERIOD (FEIR BR-MM 8)

SCHEDULE THE WORK TO PRIORITIZE ACCOMPLISHING TREE REMOVAL, WORK NEAR EUCALYPTUS TREES, AND DUST-CREATING ACTIVITIES OUTSIDE OF THE MONARCH BUTTERFLY WINTERING PERIOD.

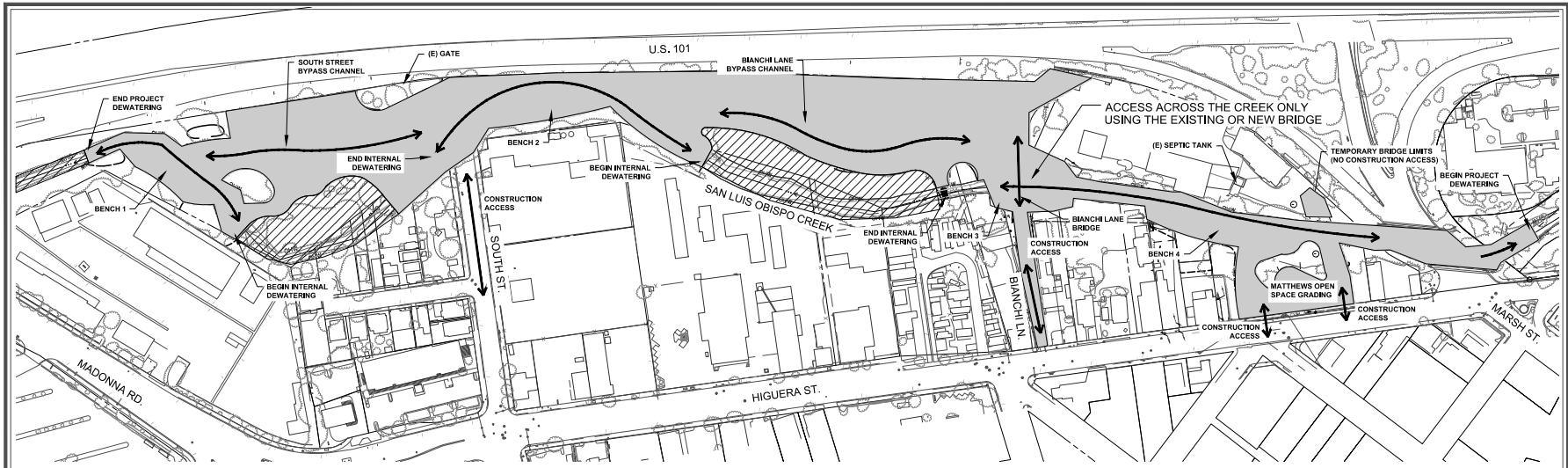
IF WORK IS NECESSARY DURING THE MONARCH BUTTERFLY WINTERING PERIOD, YOU MUST COORDINATE WITH THE CITY-SUPPLIED BIOLOGIST AND COMPLY WITH THE REQUIRED BUFFER ZONES AND DUST CONTROL MEASURES. INSTALL FENCING, SIGNS, OR ROPES AS REQUIRED BY THE CITY-SUPPLIED BIOLOGIST TO MARK THE BUFFER ZONES.

PROJECT TITLE: **MID-HIGUERA BYPASS**

SHEET TITLE: **ORDER OF WORK**

REGISTERED PROFESSIONAL ENGINEER — VALERIE C. HUFF — No. 72426 — FOR PLAN REVIEW ONLY NOT FOR CONSTRUCTION — CIVIL — STATE OF CALIFORNIA

DESIGNED BY:	VGH
DRAWN BY:	CK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	1" = 100'
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	0061-0091 ORDR.dwg
SHEET NO.	C-3 of 65



CONSTRUCTION WORK AREAS DURING DEWATERING PERIOD
JUNE 1 - OCTOBER 15

LEGEND

- ALLOWED CONSTRUCTION WORK AREAS, JUNE 1 - OCTOBER 15
- NON-DEWATERED CREEK AREAS (RESTRICTED WORK AREAS)
- ALLOWED CONSTRUCTION ACCESS ROUTES
- OHW — ORDINARY HIGH WATER MARK LIMIT

NOTE:
CREEK NON-DEWATERED AREAS ARE TO BE ACCESSED BY FOOT ONLY. ACTIVITIES ALLOWED INCLUDE VEGETATION AND TRASH REMOVAL, VEGETATION PLANTING AND IRRIGATION INSTALLATION, AND DEWATERING INSTALLATION AND MAINTENANCE

NORTH

THIS PAGE SUMMARIZES SCHEDULING REQUIREMENTS OF THE PERMITS, THE SPECIAL PROVISIONS, AND OTHER SUPPLEMENTAL PROJECT INFORMATION. REFER TO THE SPECIAL PROVISIONS AND SUPPLEMENTAL PROJECT INFORMATION FOR ADDITIONAL DETAILS.

INITIAL ACTIVITIES

1. SUBMIT REQUIRED CONSTRUCTION SCHEDULE FOR APPROVAL
2. COORDINATE ENVIRONMENTAL PRECONSTRUCTION SURVEYS
3. COORDINATE WORK BY OTHERS, INCLUDING UTILITIES AND CITY BIOLOGIST
4. ENVIRONMENTAL TRAINING OF CONSTRUCTION PERSONNEL
5. INSTALL TEMPORARY HIGH VISIBILITY FENCING

BIANCHI LANE BRIDGE - USE OF EXISTING BRIDGE

PRIOR TO REMOVAL, THE EXISTING BIANCHI LANE BRIDGE MAY BE USED FOR CONSTRUCTION ACCESS. COMPLY WITH THE LOAD RATING OF THE BRIDGE (REFER TO SPECIAL PROVISIONS).

BIANCHI LANE BRIDGE - REMOVAL OF EXISTING BRIDGE, FOOTINGS, AND ABUTMENTS

THE CREEK AREA UNDER THE BRIDGE MUST BE DEWATERED BEFORE BRIDGE REMOVAL.

MAINTAIN ACCESS AND UTILITY SERVICE TO THE EXISTING PRIVATE PROPERTY (APN 002-482-071) DURING CONSTRUCTION. PRIOR TO REMOVAL OF THE EXISTING BIANCHI LANE BRIDGE, THE FOLLOWING MUST BE COMPLETED. COORDINATE THE WORK BY OTHERS AND COMPLETE THE INSTALLATIONS NEEDED.

1. CONSTRUCT THE TEMPORARY BRIDGE AND MATTHEWS PARK CONSTRUCTION ACCESS. THE TEMPORARY BRIDGE IS FOR TEMPORARY PRIVATE USE BY THE LANDOWNER AND IS NOT A CONSTRUCTION ACCESS.
2. CONSTRUCT THE TEMPORARY WATER SERVICE TO THE PRIVATE PROPERTY.
3. COORDINATE WITH OTHERS TO REMOVE AND DISPOSE OF THE EXISTING ABANDONED GAS LINE.
4. DO NOT REMOVE THE EXISTING BRIDGE PRIOR TO APPROVAL FROM THE ENGINEER.

TEMPORARY BRIDGE

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PERMIT WORK PERIODS

THE TABLE BELOW SUMMARIZES SCHEDULING REQUIREMENTS OF THE PERMITS AND INFORMATION PROVIDED IN THE SUPPLEMENTAL PROJECT INFORMATION. REFER TO THE SPECIAL PROVISIONS FOR ADDITIONAL DETAILS AND COMPLY WITH ALL REQUIREMENTS.

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NESTING BIRD SEASON (FEIR BR-MM 21)

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CREEK DEWATERING PERIOD (FEIR BR-MM 2)

SCHEDULE THE WORK TO ACCOMPLISH ALL WORK REQUIRING CREEK DEWATERING, CREEK CROSSINGS, OR WORK IN THE CHANNEL BED TO THE PERIOD FROM JUNE 1 TO OCTOBER 15. UPSTREAM AND DOWNSTREAM PASSAGE FOR FISH, INCLUDING JUVENILE STEELHEAD, MUST BE PROVIDED THROUGH OR AROUND CONSTRUCTION SITES AT ALL TIMES.

COORDINATE THE CREEK DEWATERING WITH THE CITY-SUPPLIED BIOLOGIST, AND DO NOT PROCEED WITH WORK IN THE CREEK UNTIL AUTHORIZED IN WRITING BY THE ENGINEER.

MONARCH BUTTERFLY WINTERING PERIOD (FEIR BR-MM 8)

SCHEDULE THE WORK TO PRIORITIZE ACCOMPLISHING TREE REMOVAL, WORK NEAR EUCALYPTUS TREES, AND DUST-CREATING ACTIVITIES OUTSIDE OF THE MONARCH BUTTERFLY WINTERING PERIOD.

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PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: ORDER OF WORK

REGISTERED PROFESSIONAL ENGINEER
VALERIE C. HUFF
No. 72426
FOR PLAN REVIEW ONLY
NOT FOR CONSTRUCTION
CIVIL
STATE OF CALIFORNIA

DESIGNED BY:	VGH
DRAWN BY:	CK
CHECKED BY:	CAC
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SCALE:	1" = 100'
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
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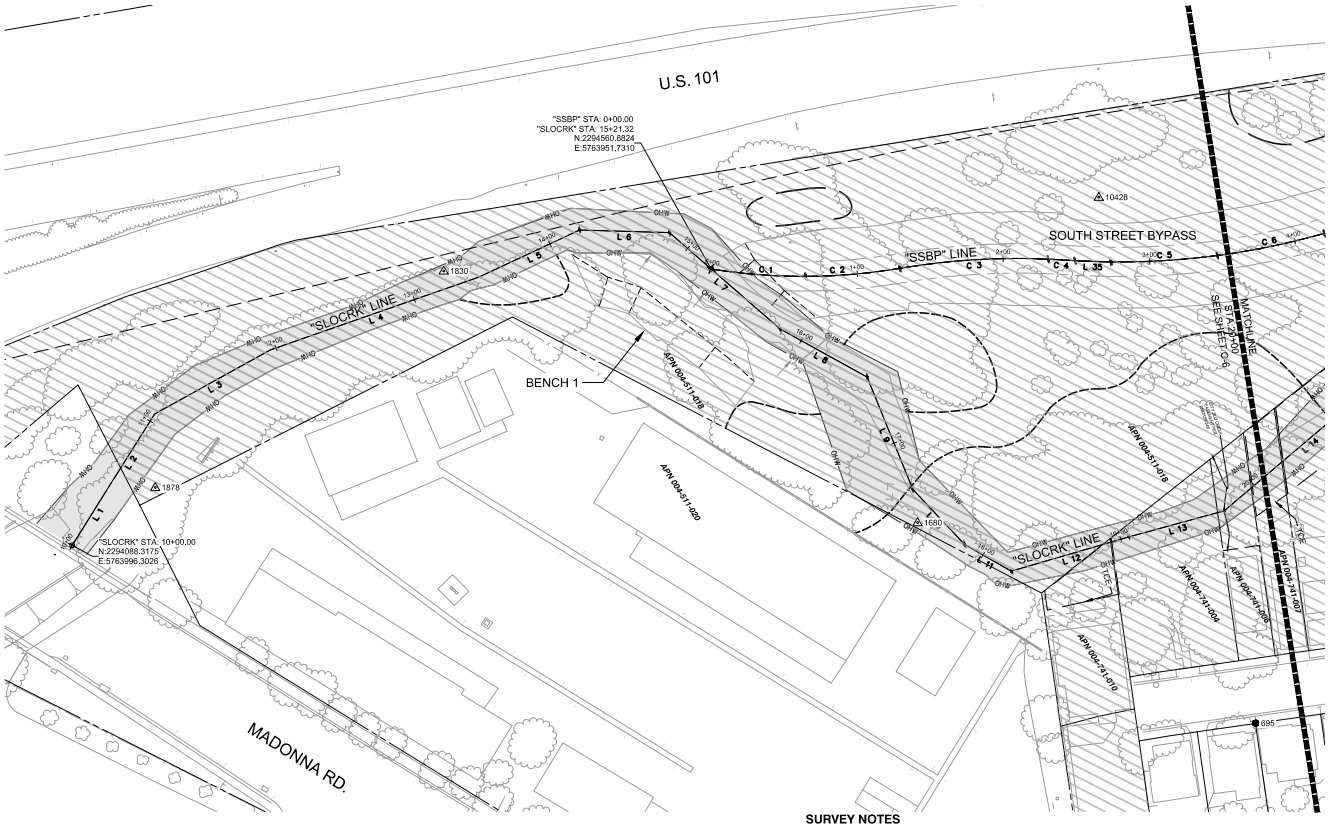
SHEET NO.	C-4 of 65



APN	Address
002-482-007	304 Higuera Street
002-482-012	N/A
002-482-013	280 Higuera Street
002-482-015	300 Higuera Street
002-482-017	284 Higuera Street
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002-482-024	286 Higuera Street
002-482-025	N/A
002-482-026	320 Higuera Street
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002-511-023	406 Higuera Street
003-711-023	34 South Street
003-711-024	264 Higuera Street
003-711-025	10 South Street
003-711-026	252 Higuera Street
003-711-041	236 Higuera Street
004-511-018	5 South Street
004-511-020	50 Higuera Street
004-741-001	23 South Street
004-741-004	170 Brook Street
004-741-006	174 Brook Street
004-741-007	178 Brook Street
004-741-008	180 Brook Street
004-741-010	160 Brook Street

LEGEND

- TEMPORARY HIGH VISIBILITY FENCE
- PROPOSED GRADING LIMIT
- BYPASS CHANNEL TOE
- (E) TOE OF SLOPE
- OHW — ORDINARY HIGH WATER MARK LIMIT
- FLOWLINE
- PARCEL LINE FROM CITY GIS
- ACCESSOR PARCELS OVERLYING THE WORK AREA (PER CITY GIS)
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- EXISTING/PROPOSED EASEMENT
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- BF — BUILDING FOOTPRINT
- BLW — BIANCHI LANE WIDENING
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- GAE — GRADING AREA EASEMENT
- P&BEE — PARKING AND BUILDING ENCROACHMENT EASEMENT
- TB&CAE — TEMPORARY BRIDGE AND CONSTRUCTION ACCESS EASEMENT
- TCE — TEMPORARY CONSTRUCTION EASEMENT

"SLOCRK" LINE

Line Table

Line #	Length	Direction
L 1	44.97	S39°59'19"E
L 2	60.74	S39°48'05"E
L 3	90.02	S11°00'43"E
L 4	150.82	S1°15'40"E
L 5	75.81	S7°01'28"E
L 6	61.16	S19°40'13"W
L 7	100.10	S58°59'46"W
L 8	67.84	S46°58'20"W
L 9	82.60	S85°52'04"W
L 10	51.52	S64°46'50"W
L 11	36.69	S47°45'58"W
L 12	83.52	S1°45'46"W
L 13	67.44	S2°44'11"W
L 14	147.55	S22°16'59"E

"SSBP" LINE

Curve Table

Curve #	Length	Radius	Delta
C 1	64.78	398.87	9°18'18"
C 2	64.40	391.86	9°25'00"
C 3	101.55	485.89	11°58'29"
C 4	18.43	616.57	1°42'45"
C 5	72.68	513.32	8°06'43"
C 6	74.52	513.32	8°19'04"

SURVEY CONTROL POINTS

PT. NO.	NORTHING	EASTING	ELEV.	DESC.
1680	2294641.26	5764159.66	146.28	SET #5 REBAR WG CAP
1830	2294387.04	5763896.71	145.88	SET #5 REBAR WG CAP
1878	2294154.37	5763976.26	148.54	SET #5 REBAR WG CAP
10428	2294827.32	5763986.86	160.04	SET #5 REBAR WG CAP

FOUND MONUMENT COORDINATE TABLE

PT. NO.	NORTHING	EASTING	ELEV.	DESC.
695	2294818.29	5764360.97	160.5	FOUND #5 REBAR & PLASTIC CAP PLS 5702

SURVEY NOTES

1. THE BASIS OF BEARINGS FOR THIS SURVEY IS BASED ON THE 2007 CITY OF SAN LUIS OBISPO HORIZONTAL CONTROL NETWORK AS REFERENCED IN THIS SURVEY BY WG POINT #8207, BEING SLO CONTROL #8207 AND BY WG POINT #8066, BEING SLO CONTROL #8066, HAVING A CALCULATED BEARING OF NORTH 19° 46' 28" EAST. DESIGNATED POINTS ARE PUBLISHED IN A CONTROL INVENTORY FILE ON FILE WITH THE CITY OF SAN LUIS OBISPO. NOT SHOWN.
2. ALL MEASUREMENTS LISTED, SHOWN AND REPRESENTED HEREON ARE BASED ON GROUND DISTANCES. ALL DISTANCES SHOWN ARE U.S. SURVEY FEET.
3. THE ORTHOMETRIC HEIGHTS (ELEVATIONS) ARE BASED ON THE CITY OF SAN LUIS OBISPO BENCHMARK SYSTEM, 1988 NORTH AMERICAN VERTICAL DATUM. THIS SURVEY TIED TO THE BENCHMARK DESIGNATED SLO BENCHMARK #15, WG POINT #14, LOCATED ON S.L.O. CREEK BRIDGE AT THE SOUTHWEST CORNER OF MARSH AND HIGUERA AND HAVING A PUBLISHED ELEVATION OF 174.21.'
4. CONTOUR INTERVALS SHOWN HEREON BASED ON THE QUANTITY AND QUALITY OF DATA COMPILED FROM GROUND SURVEY AND PHOTOGRAMMETRIC SOURCES. THIS IS DUE TO AREAS BEING OBSTRUCTED FROM THE AIR BY TREE CANOPIES OR A LACK OF GROUND SURVEY DENSIFICATION TO DATE. SOME AREAS SHOW THE CONTOUR INTERVALS IN A FADED NUMBER, I.E. 2, 5 10.
5. ORTHOPHOTOGRAPHY AND AERIAL MAPPING PRODUCED BY:
   GOLDEN STATE AERIALS, INC.
   3195 MCMILLAN RD, SUITE E
   SAN LUIS OBISPO, CA 93401
   PHONE: (805) 549-0399

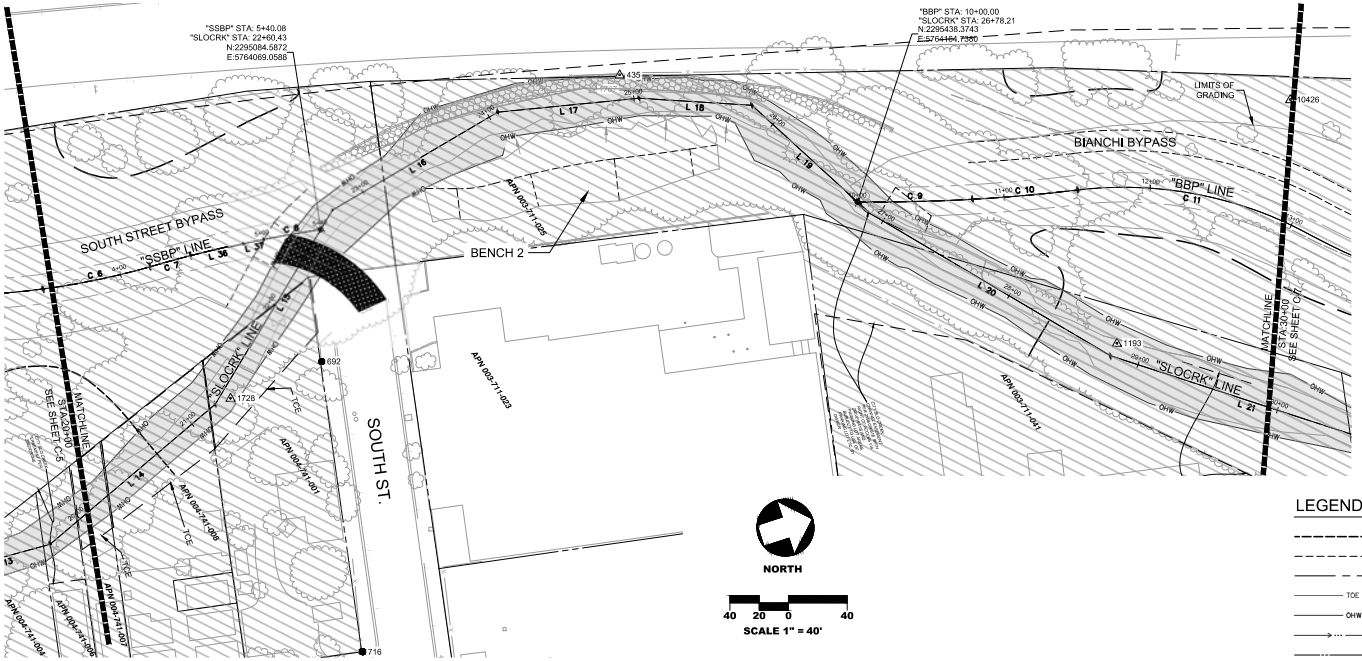
   PHOTOGRAPHY DATED: 1/26/2012
6. UNDERGROUND UTILITY LOCATIONS ARE PLOTTED BASED ON ABOVE GROUND PAINT MARKS BY OTHERS, ABOVE GROUND SURFACE STRUCTURES. ACTUAL LOCATION MAY DIFFER. ADDITIONAL UNDERGROUND UTILITY LINES MAY EXIST. FOR INFORMATION REGARDING UTILITY LOCATION, SIZE, DEPTH, CONDITION, AND CAPACITY CONTACT UTILITY OR MUNICIPAL/PUBLIC SERVICE FACILITY.
7. UNDERGROUND PIPE SIZES ARE BASED ON VISUAL OBSERVATIONS MADE FROM THE SURFACE AND ARE APPROXIMATE.
8. EASEMENTS AFFECTING THE PROPERTIES MAY EXIST. SEE EASEMENT NOTE REGARDING PLOTTING OF CERTAIN EASEMENTS.
9. HIGH WATER MARK: HIGH WATER MARK WAS DETERMINED BY PADRE ASSOCIATES. HIGH WATER POINTS SHOWN ARE THE LOCATIONS OF THE FLAGS SET BY PADRE ASSOCIATES. (TREE SURVEY AND IDENTIFICATION OF ORDINARY HIGH WATER MARK WITHIN SAN LUIS OBISPO CREEK, PADRE ASSOCIATES INC., FEBRUARY 2012).
10. TREE IDENTIFICATION SURVEY: PADRE ASSOCIATES WAS TASKED TO IDENTIFY TREES IN THE CREEK SURVEY AREA (NATIVE AND NON-NATIVE) GREATER THAN EIGHT INCHES IN DIAMETER AND OAK TREES GREATER THAN 4 INCHES IN DIAMETER, TREE TAG NUMBERS CORRESPOND TO THE IDENTIFICATION NUMBER ASSIGNED BY PADRE, (MID-HIGUERA BYPASS PROJECT; TREE IDENTIFICATION SURVEY AND TAGGING WITHIN SAN LUIS OBISPO CREEK, PADRE ASSOCIATES INC., OCTOBER 2017).
11. GROUND SURVEYS HAVE BEEN PERFORMED IN SELECT AREAS AS REQUIRED FOR THIS PROJECT SPANNING THE YEARS OF 2012-2023.
12. THE EASEMENTS LISTED IN THE LEGEND ARE PROPOSED (06/03/2024). IT IS ANTICIPATED THAT THEY SHALL BE CREATED PRIOR TO CONSTRUCTION OCCURRING.

PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: PROJECT CONTROL STA 10+00.00 TO 20+00.00

LICENSED LAND SURVEYOR GEORGE Y. MARGENO No. 6964 STATE OF CALIFORNIA

DESIGNED BY:	VGH
DRAWN BY:	CK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	1" = 40'
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	0001-2091 HCTRL.dwg
SHEET NO.	C-5 of 65



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LEGEND

- TEMPORARY HIGH VISIBILITY FENCE
- PROPOSED GRADING LIMIT
- BYPASS CHANNEL TOE
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- OHW — ORDINARY HIGH WATER MARK LIMIT
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- P&BEE — PARKING AND BUILDING ENCROACHMENT EASEMENT
- TB&CAE — TEMPORARY BRIDGE AND CONSTRUCTION ACCESS EASEMENT
- TCE — TEMPORARY CONSTRUCTION EASEMENT

"SLOCRK" LINE

Line Table

Line #	Length	Direction
L 13	67.44	S2°44'11"W
L 14	147.55	S22°16'59"E
L 15	155.02	S41°00'48"E
L 16	130.97	S12°27'24"E
L 17	96.69	S12°22'19"W
L 18	77.20	S21°34'50"W
L 19	108.84	S60°28'20"W
L 20	190.64	S48°40'02"W
L 21	197.76	S36°02'44"W

"SSBP" LINE

Curve Table

Curve #	Length	Radius	Delta
C 6	74.52	513.32	8°19'04"
C 7	28.77	529.38	3°06'48"
C 8	39.48	1063.03	2°07'41"

Line Table

Line #	Length	Direction
L 36	36.78	S4°40'11"W
L 37	14.27	S5°50'24"W

"BBP" LINE

Curve Table

Curve #	Length	Radius	Delta
C 9	78.34	1347.12	3°19'55"
C 10	72.19	1140.64	3°37'34"
C 11	157.04	266.70	33°44'16"

SURVEY CONTROL POINTS

PT. NO.	NORTHING	EASTING	ELEV.	DESC.
435	2295310.90	5764032.17	158.12	SET SCRIBED X
1193	2295576.80	5764310.98	152.84	SET #5 REBAR WG CAP
1728	2294990.46	5764159.86	148.32	SET #5 REBAR WG CAP
10426	2295740.54	5764189.54	177.49	SET #5 REBAR WG CAP

FOUND MONUMENT COORDINATE TABLE

PT. NO.	NORTHING	EASTING	ELEV.	DESC.
692	2295057.36	5764155.33	160.8	FOUND #5 REBAR & PLASTIC CAP EDA LS 5702
716	2295022.76	5764352.25	162.1	FOUND #5 REBAR EDA LS 5702

CITY OF SAN LUIS OBISPO

MID-HIGUERA BYPASS

PROJECT CONTROL STA 20+00.00 TO 30+00.00

PROJECT TITLE:

SHEET TITLE:

LICENSED LAND SURVEYOR GEORGE T. MARCHANO No. 6964 STATE OF CALIFORNIA

DESIGNED BY:	VGH
DRAWN BY:	CK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	1" = 40'
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
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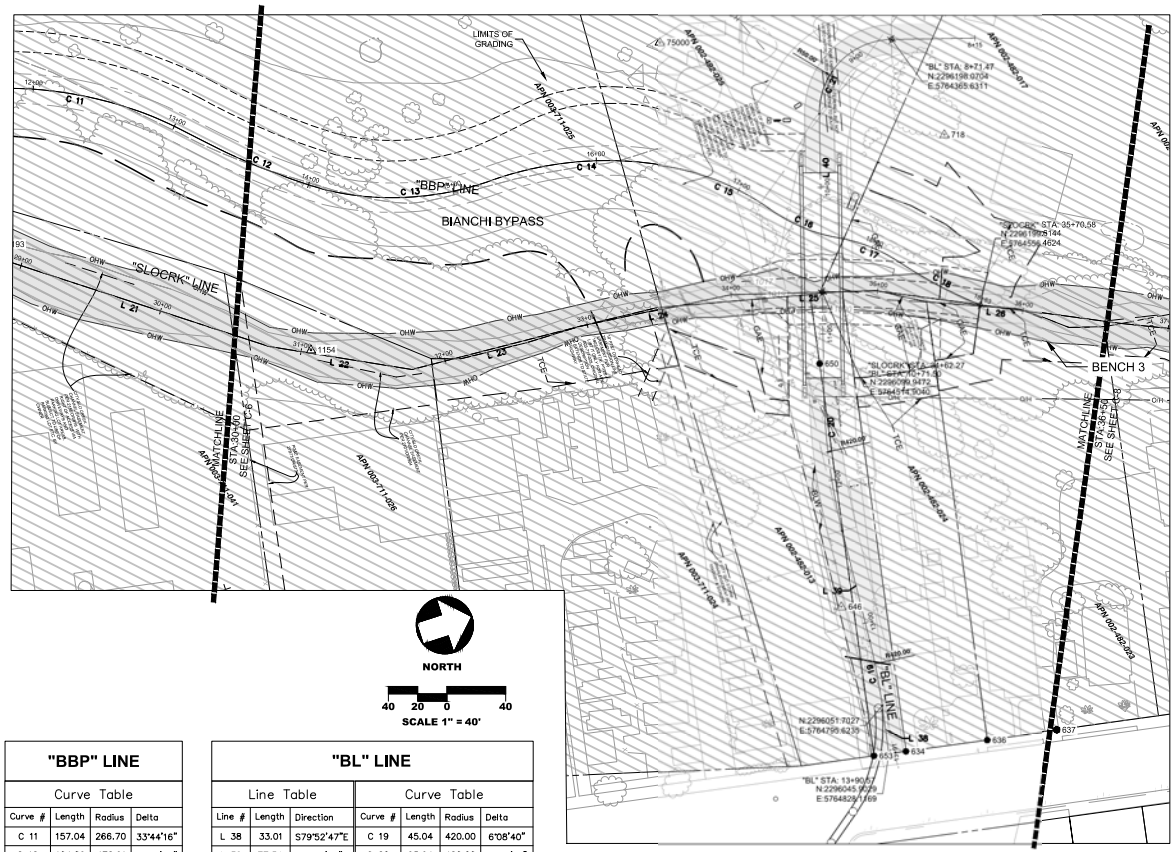
SHEET NO.	C-6 of 65



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002-482-013	280 Higuera Street
002-482-015	300 Higuera Street
002-482-017	284 Higuera Street
002-482-021	390 Higuera Street
002-482-023	292 Higuera Street
002-482-024	286 Higuera Street
002-482-025	N/A
002-482-026	320 Higuera Street
002-482-027	306 Higuera Street
002-511-023	406 Higuera Street
003-711-023	34 South Street
003-711-024	264 Higuera Street
003-711-025	10 South Street
003-711-026	252 Higuera Street
003-711-041	236 Higuera Street
004-511-018	5 South Street
004-511-020	50 Higuera Street
004-741-001	23 South Street
004-741-004	170 Brook Street
004-741-006	174 Brook Street
004-741-007	178 Brook Street
004-741-008	180 Brook Street
004-741-010	160 Brook Street

LEGEND

- TEMPORARY HIGH VISIBILITY FENCE
- PROPOSED GRADING LIMIT
- BYPASS CHANNEL TOE
- TOE — (E) TOE OF SLOPE
- OHW — ORDINARY HIGH WATER MARK LIMIT
- FLOWLINE
- PARCEL LINE FROM CITY GIS
- ACCESSOR PARCELS OVERLYING THE WORK AREA (PER CITY GIS)
- ORDINARY HIGH WATER (OHW)
- EXISTING/PROPOSED EASEMENT
- TEMPORARY CONSTRUCTION EASEMENT
- BF — BUILDING FOOTPRINT
- BLW — BIANCHI LANE WIDENING
- BR&CAE — BUILDING REMOVAL AND CONSTRUCTION ACCESS EASEMENT
- GAE — GRADING AREA EASEMENT
- P&BEE — PARKING AND BUILDING ENCROACHMENT EASEMENT
- TB&CAE — TEMPORARY BRIDGE AND CONSTRUCTION ACCESS EASEMENT
- TCE — TEMPORARY CONSTRUCTION EASEMENT

"SLOCRK" LINE

Line Table

Line #	Length	Direction
L 21	197.76	S36°02'44"W
L 22	98.64	S27°07'25"W
L 23	117.87	S3°36'21"W
L 24	105.47	S5°54'13"W
L 25	98.47	S16°23'00"W
L 26	167.31	S25°45'01"W

"BBP" LINE

Curve Table

Curve #	Length	Radius	Delta
C 11	157.04	266.70	33°44'16"
C 12	104.89	472.91	12°42'29"
C 13	116.04	200.00	33°14'31"
C 14	129.37	235.23	31°30'40"
C 15	65.13	170.92	21°49'55"
C 16	53.66	113.03	27°11'56"
C 17	45.46	107.16	24°18'22"
C 18	61.33	333.55	10°32'08"

"BL" LINE

Line Table

Line #	Length	Direction
L 38	33.01	S79°52'47"E
L 39	77.34	S86°01'27"E
L 40	189.24	S72°56'08"E

Curve Table

Curve #	Length	Radius	Delta
C 19	45.04	420.00	6°08'40"
C 20	95.94	420.00	13°05'19"
C 21	78.54	50.00	90°00'00"

SURVEY CONTROL POINTS

PT. NO.	NORTHING	EASTING	ELEV.	DESC.
646	2296045.98	5764722.81	169.09	SET MAGNETIC NAIL & WG WASHER
718	2296212.26	5764438.45	170.10	SET COTTON SPINDLE & WG WASHER
1154	2295756.27	5764445.01	153.85	SET #5 REBAR WG CAP
75000	2296047.20	5764318.83	174.46	SET MAGNETIC NAIL & WG WASHER

FOUND MONUMENT COORDINATE TABLE

PT. NO.	NORTHING	EASTING	ELEV.	DESC.
634	2296057.41	5764830.30	168.4	FOUND #5 REBAR & PLASTIC CAP
636	2296112.51	5764840.14	169.2	FOUND #5 REBAR LS 5661
637	2296159.79	5764848.58	169.7	FOUND NAIL & TAG LS 5702
650	2296083.14	5764560.70	167.5	FOUND #5 REBAR LS 5702
653	2296035.75	5764826.44	168.4	FOUND #5 REBAR & PLASTIC CAP LS 5702

CITY OF SAN LUIS OBISPO

PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: PROJECT CONTROL STA 30+00.00 TO 36+50.00

LICENSED LAND SURVEYOR GEORGE Y. MARGENO No. 6964 STATE OF CALIFORNIA

DESIGNED BY: VGH
DRAWN BY: CK
CHECKED BY: CAC
APPROVED BY:
SCALE: 1" = 40'
DATE: 6/11/2024
CITY SPECIFICATION NO. 2090649
PLAN FILE NO. / LOCATION 0001-0091 HCTRL.dwg
SHEET NO. C-7 of 65

APN	Address
002-482-007	304 Higuera Street
002-482-012	N/A
002-482-013	280 Higuera Street
002-482-015	300 Higuera Street
002-482-017	284 Higuera Street
002-482-021	390 Higuera Street
002-482-023	292 Higuera Street
002-482-024	286 Higuera Street
002-482-025	N/A
002-482-026	320 Higuera Street
002-482-027	306 Higuera Street
002-511-023	406 Higuera Street
003-711-023	34 South Street
003-711-024	264 Higuera Street
003-711-025	10 South Street
003-711-026	252 Higuera Street
003-711-041	236 Higuera Street
004-511-018	5 South Street
004-511-020	50 Higuera Street
004-741-001	23 South Street
004-741-004	170 Brook Street
004-741-006	174 Brook Street
004-741-007	178 Brook Street
004-741-008	180 Brook Street
004-741-010	160 Brook Street

NORTH

40 20 0 40

SCALE 1" = 40'

LEGEND

- TEMPORARY HIGH VISIBILITY FENCE
- PROPOSED GRADING LIMIT
- BYPASS CHANNEL TOE
- TOE — (E) TOE OF SLOPE
- OHW — ORDINARY HIGH WATER MARK LIMIT
- FLOWLINE
- PARCEL LINE FROM CITY GIS
- ACCESSOR PARCELS OVERLYING THE WORK AREA (PER CITY GIS)
- ORDINARY HIGH WATER (OHW)
- EXISTING/PROPOSED EASEMENT
- TEMPORARY CONSTRUCTION EASEMENT
- BF — BUILDING FOOTPRINT
- BLW — BIANCHI LANE WIDENING
- BR&CAE — BUILDING REMOVAL AND CONSTRUCTION ACCESS EASEMENT
- GAE — GRADING AREA EASEMENT
- P&BEE — PARKING AND BUILDING ENCROACHMENT EASEMENT
- TB&CAE — TEMPORARY BRIDGE AND CONSTRUCTION ACCESS EASEMENT
- TCE — TEMPORARY CONSTRUCTION EASEMENT

"SLOCRK" LINE

Line Table

Line #	Length	Direction
L 27	92.06	S24°01'11"W
L 28	116.05	S34°33'56"W
L 29	148.88	S26°12'30"W
L 30	187.91	S24°23'22"W

"TB" LINE

Line Table

Line #	Length	Direction
L 43	121.23	N86°34'48"E
L 44	60.70	S79°54'46"E

Curve Table

Curve #	Length	Radius	Delta
C 22	21.67	71.22	17°26'01"
C 23	18.66	79.16	13°30'26"

SURVEY CONTROL POINTS

PT. NO.	NORTHING	EASTING	ELEV.	DESC.
438	2296770.02	5764841.18	175.04	SET SCRIBED X
656	2296393.08	5764691.04	170.25	SET #5 REBAR WG CAP
25001	2296448.69	5764900.46	171.75	SET SCRIBED X
25002	2296620.09	5764931.12	172.64	SET SCRIBED X

FOUND MONUMENT COORDINATE TABLE

PT. NO.	NORTHING	EASTING	ELEV.	DESC.
446	2296755.29	5764962.73	173.2	FOUND CHISELED CROSS
447	2296702.36	5764953.35	172.9	FOUND CHISELED CROSS
637	2296159.79	5764848.58	169.7	FOUND NAIL & TAG LS 5702
638	2296325.63	5764878.17	171.1	FOUND MAGETIC NAIL & TAG LS 5702
654	2296678.76	5764941.21	172.9	FOUND HOLE & LEAD
658	2296362.73	5764670.39	166.4	FOUND #5 REBAR LS 5702
680	2296317.05	5764650.11	167.8	FOUND #5 REBAR LS 5702
681	2296383.23	5764895.61	171.0	FOUND CHISELED X

CITY OF SAN LUIS OBISPO

PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: PROJECT CONTROL STA 36+50.00 TO 42+00.00

LICENSED LAND SURVEYOR GEORGE Y. MARGENO No. 6964 STATE OF CALIFORNIA

DESIGNED BY: VGH

DRAWN BY: CK

CHECKED BY: CAC

APPROVED BY:

SCALE: 1" = 40'

DATE: 6/11/2024

CITY SPECIFICATION NO. 2090649

PLAN FILE NO. / LOCATION 0001-0091 HCTRL.dwg

SHEET NO. C-8 of 65

APN	Address
002-482-007	304 Higuera Street
002-482-012	N/A
002-482-013	280 Higuera Street
002-482-015	300 Higuera Street
002-482-017	284 Higuera Street
002-482-021	390 Higuera Street
002-482-023	292 Higuera Street
002-482-024	286 Higuera Street
002-482-025	N/A
002-482-026	320 Higuera Street
002-482-027	306 Higuera Street
002-511-023	406 Higuera Street
003-711-023	34 South Street
003-711-024	264 Higuera Street
003-711-025	10 South Street
003-711-026	252 Higuera Street
003-711-041	236 Higuera Street
004-511-018	5 South Street
004-511-020	50 Higuera Street
004-741-001	23 South Street
004-741-004	170 Brook Street
004-741-006	174 Brook Street
004-741-007	178 Brook Street
004-741-008	180 Brook Street
004-741-010	160 Brook Street

LEGEND

- TEMPORARY HIGH VISIBILITY FENCE
- PROPOSED GRADING LIMIT
- BYPASS CHANNEL TOE
- TOE — (E) TOE OF SLOPE
- OHW — ORDINARY HIGH WATER MARK LIMIT
- FLOWLINE
- PARCEL LINE FROM CITY GIS
- ACCESSOR PARCELS OVERLYING THE WORK AREA (PER CITY GIS)
- ORDINARY HIGH WATER (OHW)
- EXISTING/PROPOSED EASEMENT
- TEMPORARY CONSTRUCTION EASEMENT
- BF — BUILDING FOOTPRINT
- BLW — BIANCHI LANE WIDENING
- BR&CAE — BUILDING REMOVAL AND CONSTRUCTION ACCESS EASEMENT
- GAE — GRADING AREA EASEMENT
- P&BEE — PARKING AND BUILDING ENCROACHMENT EASEMENT
- TB&CAE — TEMPORARY BRIDGE AND CONSTRUCTION ACCESS EASEMENT
- TCE — TEMPORARY CONSTRUCTION EASEMENT

NORTH

40 20 0 40

SCALE 1" = 40'

"SLOCRK" LINE

Line Table

Line #	Length	Direction
L 30	187.91	S24°23'22"W
L 31	152.99	S30°21'42"W
L 32	48.01	S5°28'34"W
L 33	72.39	S10°18'37"E
L 34	123.36	S13°59'52"E

SURVEY CONTROL POINTS

PT. NO.	NORTHING	EASTING	ELEV.	DESC.
438	2296770.02	5764641.18	176.04	SET SCRIBED X
1407	2296893.48	5764879.84	162.25	SET #5 REBAR WG CAP
10505	2297143.59	5764745.16	205.63	SET PK NAIL

FOUND MONUMENT COORDINATE TABLE

PT. NO.	NORTHING	EASTING	ELEV.	DESC.
405	2296818.68	5764934.47	174.2	FOUND BENCHMARK 15
446	2296755.29	5764962.73	173.2	FOUND CHISELED CROSS
447	2296702.36	5764953.35	172.9	FOUND CHISELED CROSS
654	2296678.76	5764941.21	172.9	FOUND HOLE & LEAD
663	2297100.81	5765016.92	175.6	FOUND NAIL & TAG LS 4819
664	2297128.23	5765034.94	175.4	FOUND NAIL & TAG LS 4819
665	2297170.17	5765061.56	175.7	FOUND NAIL & TAG RCE 12545
670	2296973.48	5764980.38	173.9	FOUND 2" IRON PIPE & NAIL & WASHER PLS 5702

CITY OF SAN LUIS OBISPO

PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: PROJECT CONTROL STA 42+00.00 TO 46+15.18

LICENSED LAND SURVEYOR GEORGE Y. MARGENO No. 6964 STATE OF CALIFORNIA

DESIGNED BY: VGH

DRAWN BY: CK

CHECKED BY: CAC

APPROVED BY:

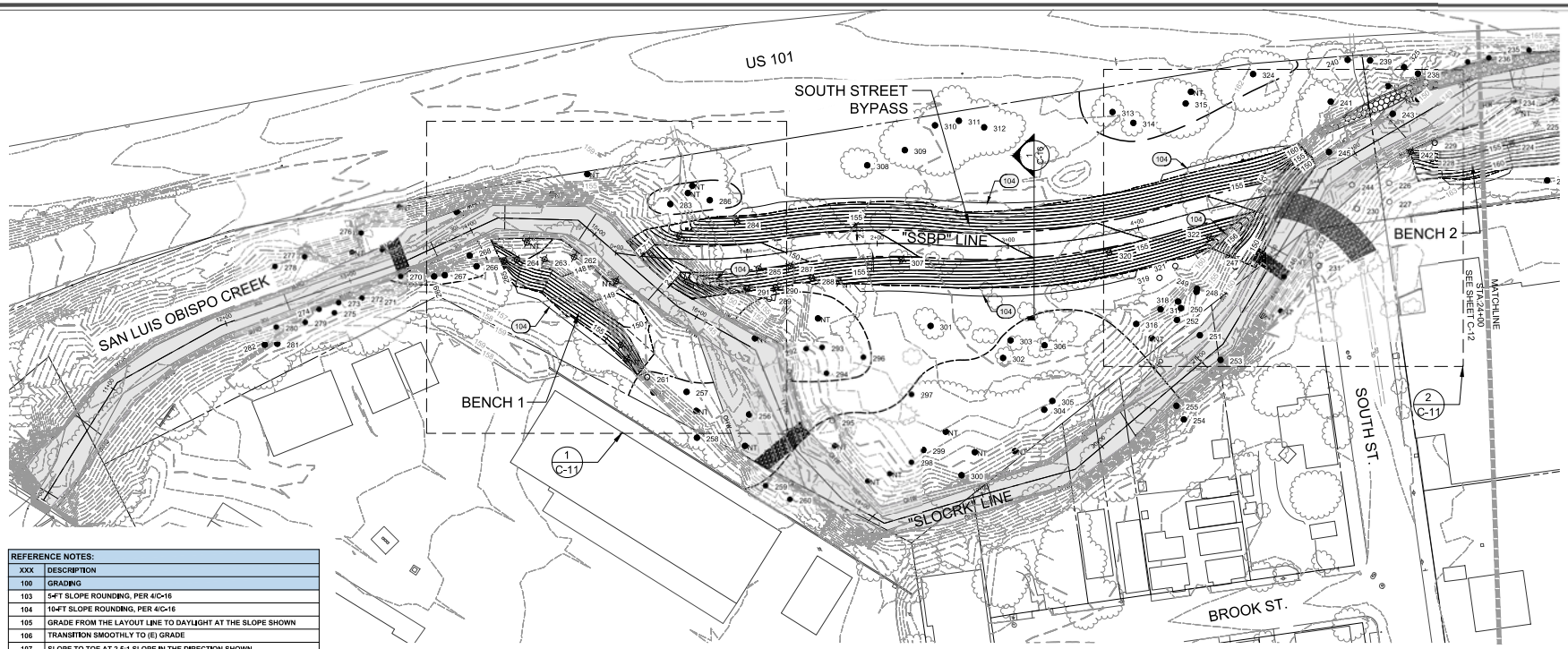
SCALE: 1" = 40'

DATE: 6/11/2024

CITY SPECIFICATION NO. 2090649

PLAN FILE NO. / LOCATION 0001-0091 HCTRL.dwg

SHEET NO. C-9 of 65



REFERENCE NOTES:	
XXX	DESCRIPTION
100	GRADING
103	5-FT SLOPE ROUNDING, PER 4/C-16
104	10-FT SLOPE ROUNDING, PER 4/C-16
105	GRADE FROM THE LAYOUT LINE TO DAYLIGHT AT THE SLOPE SHOWN
106	TRANSITION SMOOTHLY TO (E) GRADE
107	SLOPE TO TOE AT 2.5:1 SLOPE IN THE DIRECTION SHOWN
108	RSP LIMITS
109	MATCH (E) GRADE
110	GRADE SMOOTHLY BETWEEN LAYOUT LINES
114	CLASS II VEGETATED RSP 2.0' THICK
115	CLASS IV VEGETATED RSP 2.5' THICK
116	3' X 5' X 3' H BOULDER, PLACE AS DIRECTED AND PER 4/C-20
117	4' X 6' X 2' H BOULDER, PLACE AS DIRECTED AND PER 4/C-20
118	ROOTWAD PER 1/C-20
600	SITEWORK
603	RECONSTRUCT FENCE (TYPE CL) PER CALTRANS STD A85
604	REMOVE BUILDING, SEE "A" SHEETS
607	TEMPORARY CONSTRUCTION ACCESS. PATH SHOWN IS SCHEMATIC. PROVIDE CONSTRUCTION PLAN TO BE APPROVED BY THE ENGINEER PRIOR TO GRADING IN ACCORDANCE WITH SPECIAL PROVISIONS SECTION 16-3. REGRADE TO PRECONSTRUCTION CONDITIONS, OR PER GRADING PLANS IN THE GRADING AREAS.
612	RELOCATE ROADSIDE SIGN (METAL POST) PER CITY STD 7210, ON EXISTING POST
635	RESET ROADSIDE SIGN (TWO METAL POST) PER CITY STD 7210, ON EXISTING POST
640	RESET ROADSIDE SIGN (METAL POST) PER CITY STD 7210, ON EXISTING POST
642	LOCATE AND EXPOSE (E) STORM DRAIN OUTFALL

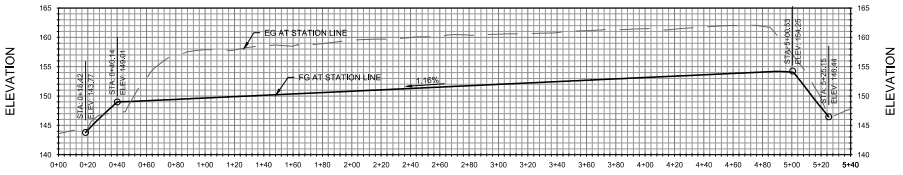
NORTH

40 20 0 40

SCALE 1" = 40'

LEGEND

● 100	(E) TREE AND TAG NUMBER
● NT	(E) TREE WITHOUT TAG
⊗ 100	REMOVE (E) TREE
○ 100	(E) TREE. SEE NOTE PER EXISTING TREE PLAN
	TEMPORARY HIGH VISIBILITY FENCE
	PROPOSED SURFACE GRADING LIMIT
	BYPASS CHANNEL TOE
TOE	(E) TOE OF SLOPE
150	FINISHED GRADE CONTOUR
150	(E) GRADE CONTOUR
OHW	ORDINARY HIGH WATER MARK LIMIT
	ORDINARY HIGH WATER (OHW)
	PROPOSED RSP
	(E) CONCRETE SACK WALL
	CREEK DEWATERING LIMITS
	PARCEL LINE FROM CITY GIS



SOUTH STREET BYPASS - PROFILE "SSBP" LINE

1" = 40' H
1" = 10' V

MID-HIGUERA BYPASS

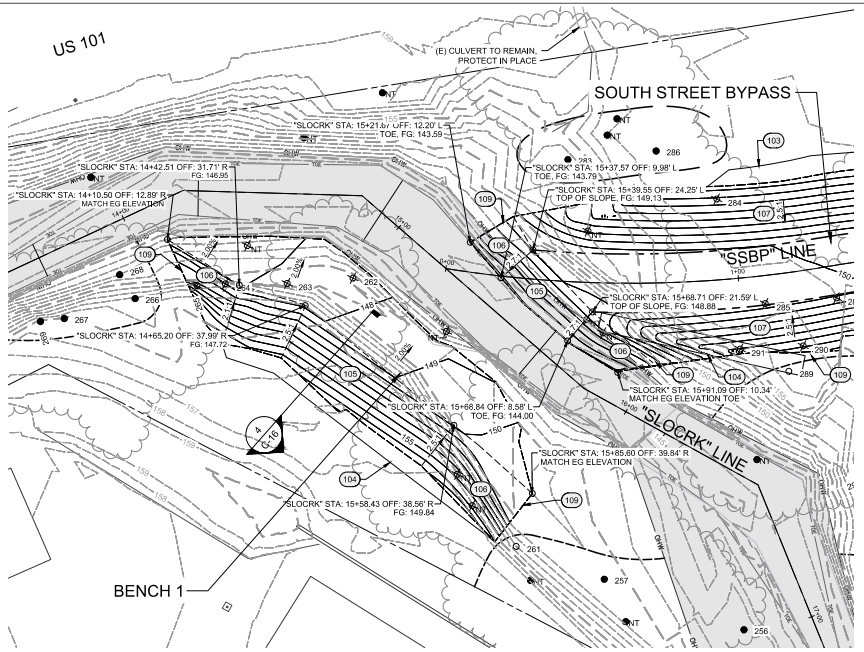
SOUTH STREET BYPASS PLAN & PROFILE

PROJECT TITLE:

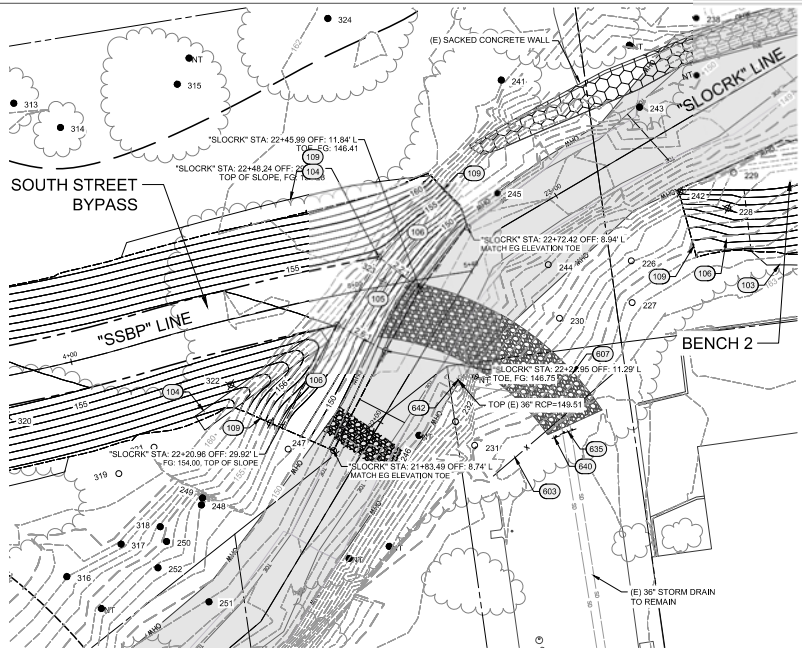
SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER
VALERIE G. HUFF
No. 72426
FOR PLAN REVIEW ONLY
NOT FOR CONSTRUCTION
CIVIL
STATE OF CALIFORNIA

DESIGNED BY:	VGH
DRAWN BY:	CK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	1" = 40'
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	0001-0091 GRAD.dwg
SHEET NO.	C-10 of 65



1 C-11 BENCH 1 AND SOUTH STREET BYPASS EXIT - GRADING DETAIL
REFER TO SHEET C-17 FOR RSP DETAIL



2 C-11 SOUTH STREET BYPASS ENTRANCE - GRADING DETAIL
REFER TO SHEET C-17 FOR RSP DETAIL

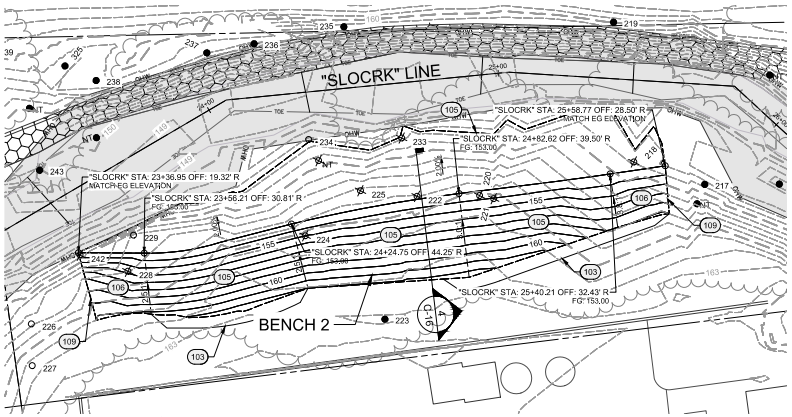
REFERENCE NOTES:	
XXX	DESCRIPTION
100	GRADING
103	5-FT SLOPE ROUNDING, PER 4/C-16
104	10-FT SLOPE ROUNDING, PER 4/C-16
105	GRADE FROM THE LAYOUT LINE TO DAYLIGHT AT THE SLOPE SHOWN
106	TRANSITION SMOOTHLY TO (E) GRADE
107	SLOPE TO TOE AT 2.5:1 SLOPE IN THE DIRECTION SHOWN
108	RSP LIMITS
109	MATCH (E) GRADE
110	GRADE SMOOTHLY BETWEEN LAYOUT LINES
114	CLASS ■ VEGETATED RSP 2.0' THICK
115	CLASS IV VEGETATED RSP 2.5' THICK
116	3' X 5' X 3' H BOULDER, PLACE AS DIRECTED AND PER 4/C-20
117	4' X 6' X 2' H BOULDER, PLACE AS DIRECTED AND PER 4/C-20
118	ROOTWAD PER 1/C-20
600	SITEWORK
603	RECONSTRUCT FENCE (TYPE CL) PER CALTRANS STD A85
604	REMOVE BUILDING, SEE "A" SHEETS
607	TEMPORARY CONSTRUCTION ACCESS. PATH SHOWN IS SCHEMATIC. PROVIDE CONSTRUCTION PLAN TO BE APPROVED BY THE ENGINEER PRIOR TO GRADING IN ACCORDANCE WITH SPECIAL PROVISIONS SECTION 16-3. REGRADE TO PRECONSTRUCTION CONDITIONS, OR PER GRADING PLANS IN THE GRADING AREAS.
612	RELOCATE ROADSIDE SIGN (METAL POST) PER CITY STD 7210, ON EXISTING POST
635	RESET ROADSIDE SIGN (TWO METAL POST) PER CITY STD 7210, ON EXISTING POST
640	RESET ROADSIDE SIGN (METAL POST) PER CITY STD 7210, ON EXISTING POST
642	LOCATE AND EXPOSE (E) STORM DRAIN OUTFALL

LEGEND

100	(E) TREE AND TAG NUMBER
NT	(E) TREE WITHOUT TAG
100	REMOVE (E) TREE
100	(E) TREE. SEE NOTE PER EXISTING TREE PLAN
	TEMPORARY HIGH VISIBILITY FENCE
	PROPOSED SURFACE GRADING LIMIT
	BYPASS CHANNEL TOE
TOE	(E) TOE OF SLOPE
150	FINISHED GRADE CONTOUR
150	(E) GRADE CONTOUR
OHW	ORDINARY HIGH WATER MARK LIMIT
	ORDINARY HIGH WATER (OHW)
	PROPOSED RSP
	(E) CONCRETE SACK WALL
	CREEK DEWATERING LIMITS
	PARCEL LINE FROM CITY GIS

NORTH

20 10 0 20
SCALE 1" = 20'



3 C-11 BENCH 2 - GRADING DETAIL
REFER TO SHEET C-17 FOR RSP DETAIL

MID-HIGUERA BYPASS

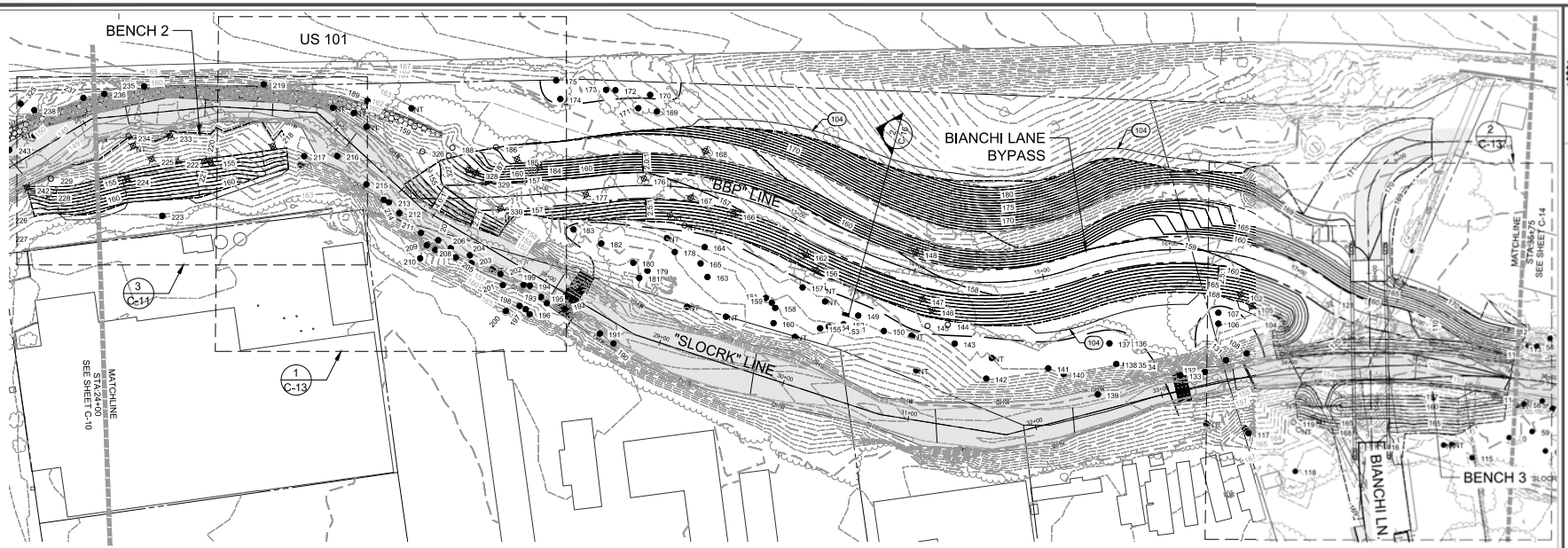
SOUTH STREET BYPASS CONNECTIONS

PROJECT TITLE:

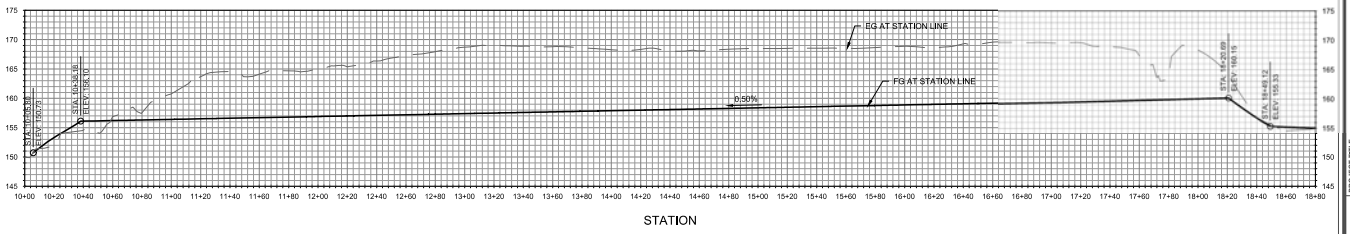
SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER VALERIE G. HUFF No. 72426 FOR PLAN REVIEW ONLY NOT FOR CONSTRUCTION CIVIL STATE OF CALIFORNIA

DESIGNED BY:	VGH
DRAWN BY:	CK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	1" = 20'
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	0001-0001 GRAD.dwg
SHEET NO.	C-11 of 65



REFERENCE NOTES:	
XXX	DESCRIPTION
100	GRADING
103	5-FT SLOPE ROUNDING, PER 4/C-16
104	10-FT SLOPE ROUNDING, PER 4/C-16
105	GRADE FROM THE LAYOUT LINE TO DAYLIGHT AT THE SLOPE SHOWN
106	TRANSITION SMOOTHLY TO (E) GRADE
107	SLOPE TO TOE AT 2.5:1 SLOPE IN THE DIRECTION SHOWN
108	RSP LIMITS
109	MATCH (E) GRADE
110	GRADE SMOOTHLY BETWEEN LAYOUT LINES
114	CLASS III VEGETATED RSP 2.0' THICK
115	CLASS IV VEGETATED RSP 2.5' THICK
116	3' X 5' X 3' H BOULDER, PLACE AS DIRECTED AND PER 4/C-20
117	4' X 6' X 2' H BOULDER, PLACE AS DIRECTED AND PER 4/C-20
118	ROOTWAD PER 1/C-20
600	SITEWORK
603	RECONSTRUCT FENCE (TYPE CL) PER CALTRANS STD A85
604	REMOVE BUILDING, SEE "A" SHEETS
607	TEMPORARY CONSTRUCTION ACCESS. PATH SHOWN IS SCHEMATIC. PROVIDE CONSTRUCTION PLAN TO BE APPROVED BY THE ENGINEER PRIOR TO GRADING IN ACCORDANCE WITH SPECIAL PROVISIONS SECTION 16-3. REGRADE TO PRECONSTRUCTION CONDITIONS, OR PER GRADING PLANS IN THE GRADING AREAS.
612	RELOCATE ROADSIDE SIGN (METAL POST) PER CITY STD 7210, ON EXISTING POST
635	RESET ROADSIDE SIGN (TWO METAL POST) PER CITY STD 7210, ON EXISTING POST
640	RESET ROADSIDE SIGN (METAL POST) PER CITY STD 7210, ON EXISTING POST
642	LOCATE AND EXPOSE (E) STORM DRAIN OUTFALL



LEGEND

● 100	(E) TREE AND TAG NUMBER
● NT	(E) TREE WITHOUT TAG
⊠ 100	REMOVE (E) TREE
○ 100	(E) TREE, SEE NOTE PER EXISTING TREE PLAN
	TEMPORARY HIGH VISIBILITY FENCE
	PROPOSED SURFACE GRADING LIMIT
	BYPASS CHANNEL TOE
TOE	(E) TOE OF SLOPE
150	FINISHED GRADE CONTOUR
150	(E) GRADE CONTOUR
OHW	ORDINARY HIGH WATER MARK LIMIT
	ORDINARY HIGH WATER (OHW)
	PROPOSED RSP
	(E) CONCRETE SACK WALL
	CREEK DEWATERING LIMITS
	PARCEL LINE FROM CITY GIS

BIANCHI LANE BYPASS - PROFILE "BBP" LINE

1" = 40' H
1" = 10' V

NORTH

40 20 0 40

SCALE 1" = 40'

MID-HIGUERA BYPASS

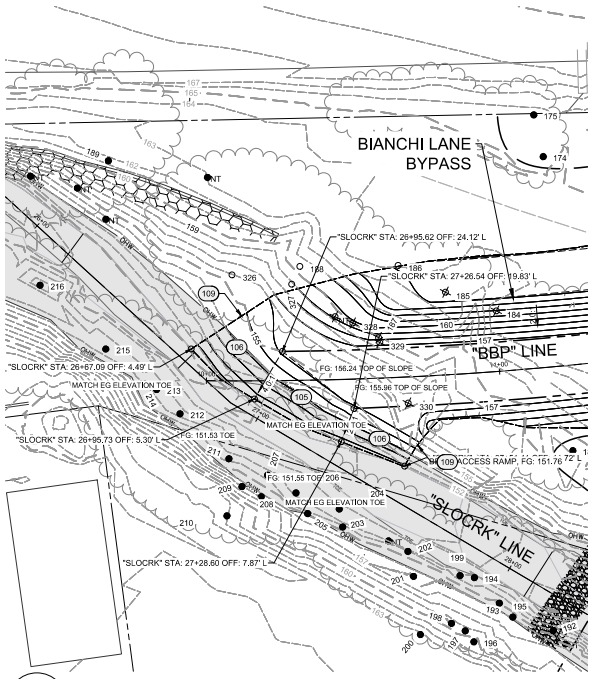
BIANCHI LANE BYPASS PLAN & PROFILE

PROJECT TITLE:

SHEET TITLE:

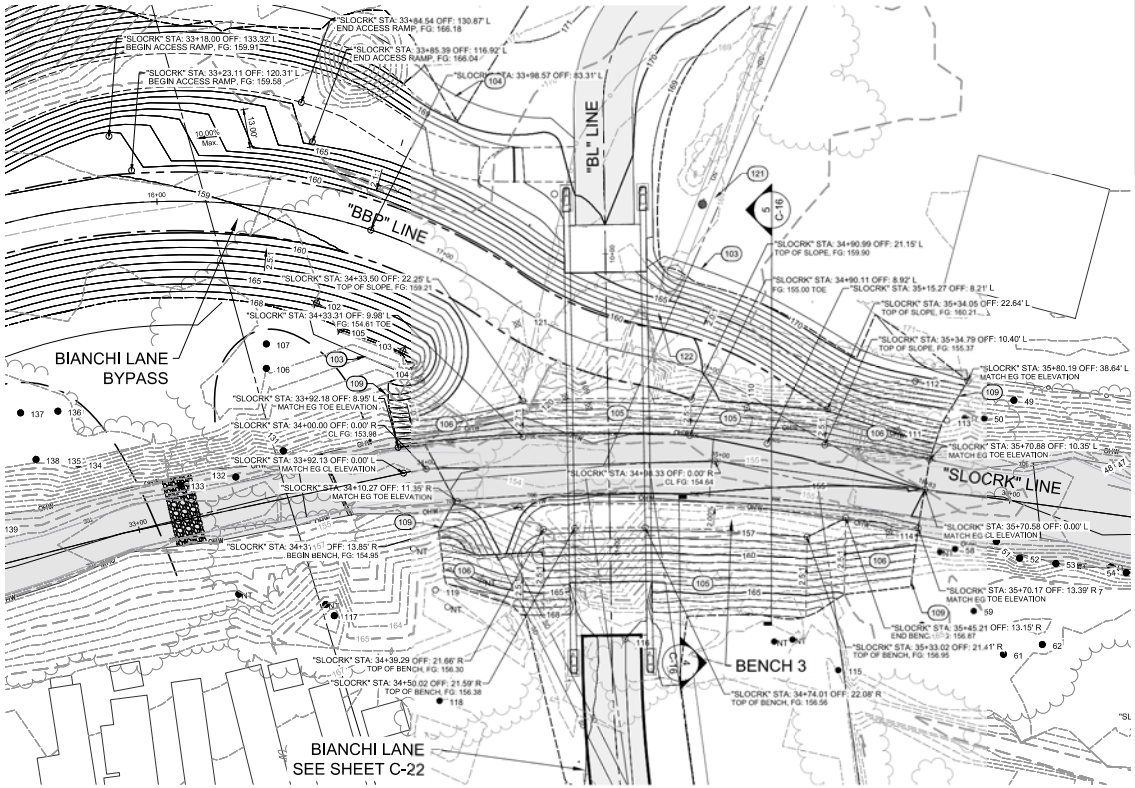
REGISTERED PROFESSIONAL ENGINEER
VALERIE G. HUFF
No. 72426
FOR PLAN REVIEW ONLY
NOT FOR CONSTRUCTION
CIVIL
STATE OF CALIFORNIA

DESIGNED BY:	VGH
DRAWN BY:	CK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	1" = 40'
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	0001-0091 GRAD.dwg
SHEET NO.	C-12 of 65



1 / C-13 BIANCHI LANE BYPASS EXIT - GRADING DETAIL

REFER TO SHEET C-18 FOR RSP DETAIL



2 / C-13 BENCH 3 AND BIANCHI LANE BYPASS ENTRANCE - GRADING DETAIL

REFER TO SHEET C-18 FOR RSP DETAIL

REFERENCE NOTES:	
XXX	DESCRIPTION
100	GRADING
103	5-FT SLOPE ROUNDING, PER 4/C-16
104	10-FT SLOPE ROUNDING, PER 4/C-16
105	GRADE FROM THE LAYOUT LINE TO DAYLIGHT AT THE SLOPE SHOWN
106	TRANSITION SMOOTHLY TO (E) GRADE
107	SLOPE TO TOE AT 2.5:1 SLOPE IN THE DIRECTION SHOWN
108	RSP LIMITS
109	MATCH (E) GRADE
110	GRADE SMOOTHLY BETWEEN LAYOUT LINES
114	CLASS II VEGETATED RSP 2.0' THICK
115	CLASS IV VEGETATED RSP 2.5' THICK
120	OVER-EXCAVATE TO A DEPTH OF 6-INCHES AND PLACE TOPSOIL TO ACHIEVE FINISHED GRADE
121	GRADE 1' SUMP AT (N) GRATE INLET
122	FINISHED GRADE AT (N) CONCRETE FLARED END SECTION PER DETAIL X SHEET C-30
600	SITEWORK
604	REMOVE BUILDING, SEE "A" SHEETS

LEGEND

● 100	(E) TREE AND TAG NUMBER
● NT	(E) TREE WITHOUT TAG
⊠ 100	REMOVE (E) TREE
○ 100	(E) TREE, SEE NOTE PER EXISTING TREE PLAN
	TEMPORARY HIGH VISIBILITY FENCE
	PROPOSED SURFACE GRADING LIMIT
	BYPASS CHANNEL TOE
TOE	(E) TOE OF SLOPE
150	FINISHED GRADE CONTOUR
150	(E) GRADE CONTOUR
OHW	ORDINARY HIGH WATER MARK LIMIT
	ORDINARY HIGH WATER (OHW)
	PROPOSED RSP
	(E) CONCRETE SACK WALL
	CREEK DEWATERING LIMITS
	PARCEL LINE FROM CITY GIS

NORTH

20 10 0 20

SCALE 1" = 20'

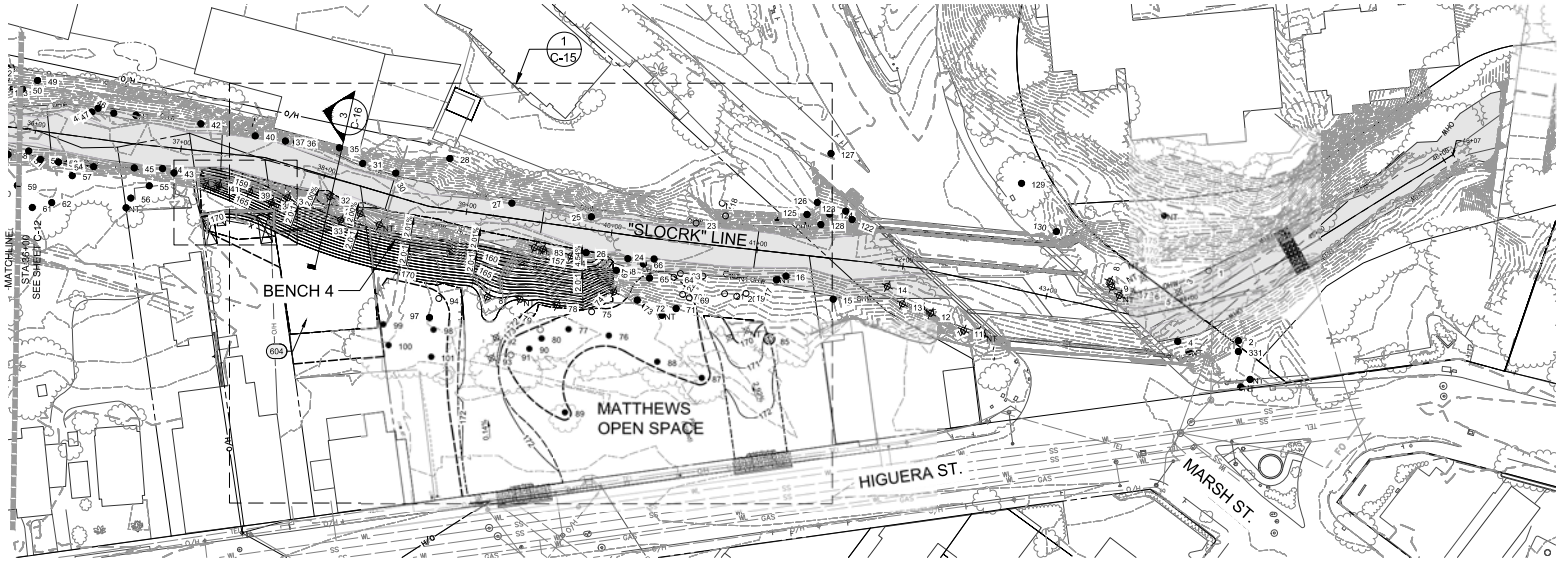
CITY OF SAN LUIS OBISPO

PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: BIANCHI LANE BYPASS CONNECTIONS

REGISTERED PROFESSIONAL ENGINEER
VALERIE G. HUFF
No. 72426
FOR PLAN REVIEW ONLY
NOT FOR CONSTRUCTION
CIVIL
STATE OF CALIFORNIA

DESIGNED BY:	VGH
DRAWN BY:	CK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	1" = 20'
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	0001-0091 GRAD.dwg
SHEET NO.	C-13 of 65



REFERENCE NOTES:	
XXX	DESCRIPTION
100	GRADING
103	5-FT SLOPE ROUNDING, PER 4/C-16
104	10-FT SLOPE ROUNDING, PER 4/C-16
105	GRADE FROM THE LAYOUT LINE TO DAYLIGHT AT THE SLOPE SHOWN
106	TRANSITION SMOOTHLY TO (E) GRADE
107	SLOPE TO TOE AT 2.5:1 SLOPE IN THE DIRECTION SHOWN
108	RSP LIMITS
109	MATCH (E) GRADE
110	GRADE SMOOTHLY BETWEEN LAYOUT LINES
114	CLASS III VEGETATED RSP 2.0' THICK
115	CLASS IV VEGETATED RSP 2.5' THICK
116	3' X 5' X 3' H BOULDER, PLACE AS DIRECTED AND PER 4/C-20
117	4' X 6' X 2' H BOULDER, PLACE AS DIRECTED AND PER 4/C-20
118	ROOTWAD PER 1/C-20
600	SITEWORK
603	RECONSTRUCT FENCE (TYPE CL) PER CALTRANS STD A85
604	REMOVE BUILDING, SEE "A" SHEETS
607	TEMPORARY CONSTRUCTION ACCESS. PATH SHOWN IS SCHEMATIC. PROVIDE CONSTRUCTION PLAN TO BE APPROVED BY THE ENGINEER PRIOR TO GRADING IN ACCORDANCE WITH SPECIAL PROVISIONS SECTION 16-3. REGRADE TO PRECONSTRUCTION CONDITIONS, OR PER GRADING PLANS IN THE GRADING AREAS.
612	RELOCATE ROADSIDE SIGN (METAL POST) PER CITY STD 7210, ON EXISTING POST
635	RESET ROADSIDE SIGN (TWO METAL POST) PER CITY STD 7210, ON EXISTING POST
640	RESET ROADSIDE SIGN (METAL POST) PER CITY STD 7210, ON EXISTING POST
642	LOCATE AND EXPOSE (E) STORM DRAIN OUTFALL

LEGEND

- 100 — (E) TREE AND TAG NUMBER
- NT — (E) TREE WITHOUT TAG
- ⊠ 100 — REMOVE (E) TREE
- ○ 100 — (E) TREE. SEE NOTE PER EXISTING TREE PLAN
- TEMPORARY HIGH VISIBILITY FENCE
- PROPOSED SURFACE GRADING LIMIT
- BYPASS CHANNEL TOE
- TOE — (E) TOE OF SLOPE
- 150 — FINISHED GRADE CONTOUR
- 150 — (E) GRADE CONTOUR
- OHW — ORDINARY HIGH WATER MARK LIMIT
- ORDINARY HIGH WATER (OHW)
- PROPOSED RSP
- (E) CONCRETE SACK WALL
- CREEK DEWATERING LIMITS
- PARCEL LINE FROM CITY GIS

NORTH

40 20 0 40

SCALE 1" = 40'

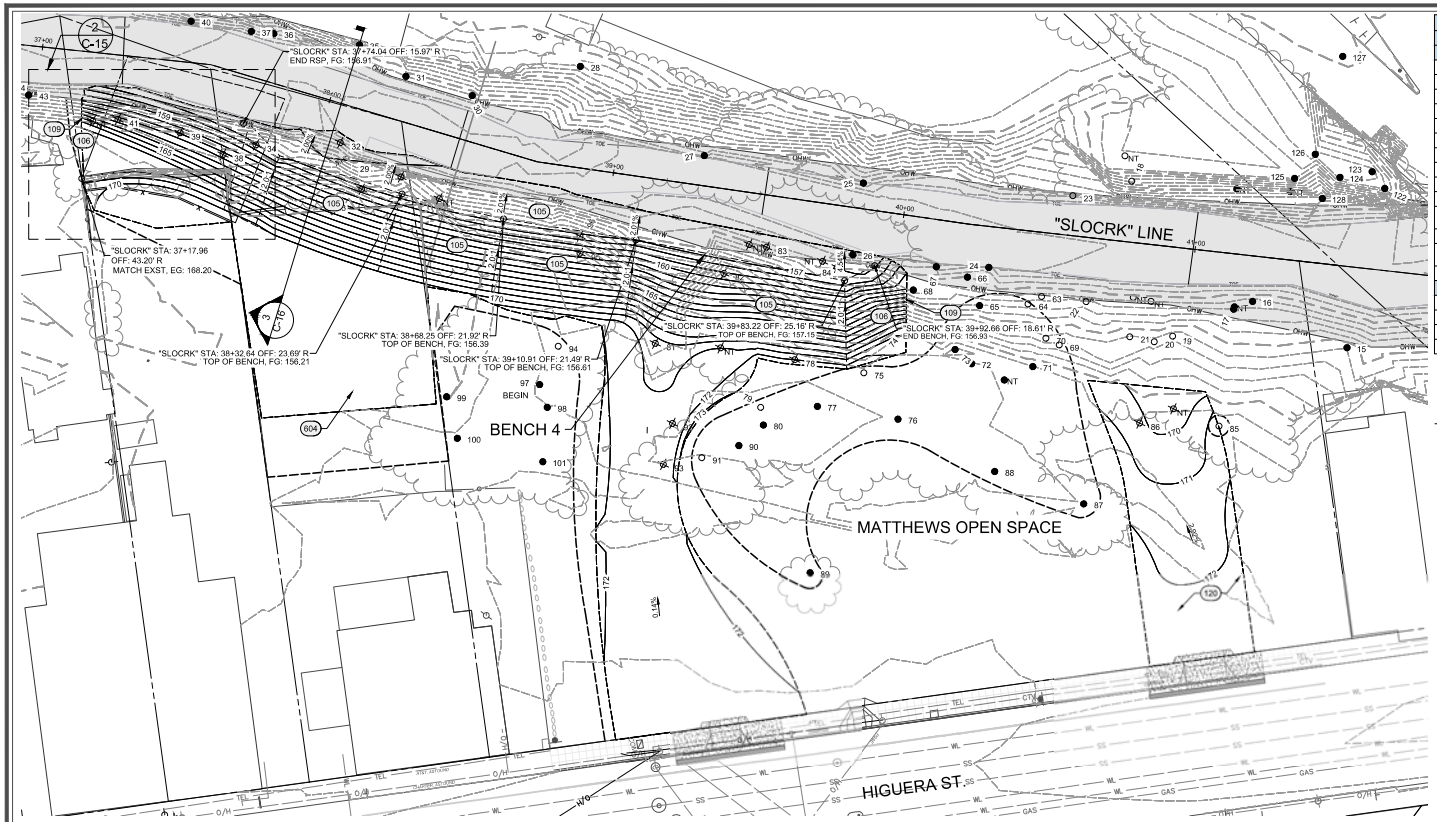
CITY OF SAN LUIS OBISPO

PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: BIANCHI LANE TO MARSH ST GRADING PLAN

REGISTERED PROFESSIONAL ENGINEER
VALERIE G. HUFF
No. 72426
FOR PLAN REVIEW ONLY
NOT FOR CONSTRUCTION
CIVIL
STATE OF CALIFORNIA

DESIGNED BY:	VGH
DRAWN BY:	CK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	1" = 40'
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	0061-2091 GRAD.dwg
SHEET NO.	C-14 of 65



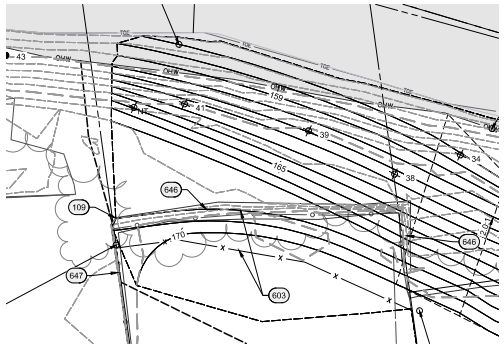
REFERENCE NOTES:	
XXX	DESCRIPTION
100	GRADING
103	5-FT SLOPE ROUNDING, PER 4/C-16
104	10-FT SLOPE ROUNDING, PER 4/C-16
105	GRADE FROM THE LAYOUT LINE TO DAYLIGHT AT THE SLOPE SHOWN
106	TRANSITION SMOOTHLY TO (E) GRADE
107	SLOPE TO TOE AT 2.5:1 SLOPE IN THE DIRECTION SHOWN
108	RSP LIMITS
109	MATCH (E) GRADE
110	GRADE SMOOTHLY BETWEEN LAYOUT LINES
114	CLASS ■ VEGETATED RSP 2.0' THICK
115	CLASS IV VEGETATED RSP 2.5' THICK
120	OVER-EXCAVATE TO A DEPTH OF 6-INCHES AND PLACE TOPSOIL TO ACHIEVE FINISHED GRADE
121	GRADE 1' SUMP AT (N) GRATE INLET
122	FINISHED GRADE AT (N) CONCRETE FLARED END SECTION PER DETAIL X SHEET C-30
124	FOLLOWING BUILDING REMOVAL, GRADE PAD TO DRAIN TO CREEK
600	SITEWORK
603	RECONSTRUCT FENCE (TYPE CL) PER CALTRANS STD A85
604	REMOVE BUILDING, SEE "A" SHEETS
646	REMOVE (E) RAILROAD TIE RETAINING WALL AND CONCRETE RUBBLE
647	(E) RETAINING WALL TO REMAIN, PROTECT IN PLACE

LEGEND

- 100 — (E) TREE AND TAG NUMBER
- NT — (E) TREE WITHOUT TAG
- ⊗ 100 — REMOVE (E) TREE
- ○ 100 — (E) TREE, SEE NOTE PER EXISTING TREE PLAN
- TEMPORARY HIGH VISIBILITY FENCE
- PROPOSED SURFACE GRADING LIMIT
- BYPASS CHANNEL TOE
- TOE — (E) TOE OF SLOPE
- 150 — FINISHED GRADE CONTOUR
- 150 — (E) GRADE CONTOUR
- OHW — ORDINARY HIGH WATER MARK LIMIT
- ORDINARY HIGH WATER (OHW)
- PROPOSED RSP
- (E) CONCRETE SACK WALL
- CREEK DEWATERING LIMITS
- PARCEL LINE FROM CITY GIS

1 / C-15 — BENCH 4 AND MATTHEWS OPEN SPACE - RSP DETAIL

REFER TO SHEET C-27 FOR UTILITY AND CIVIL IMPROVEMENTS AT MATTHEWS OPEN SPACE



2 / C-15 — 304 HIGUERA GRADING DETAIL

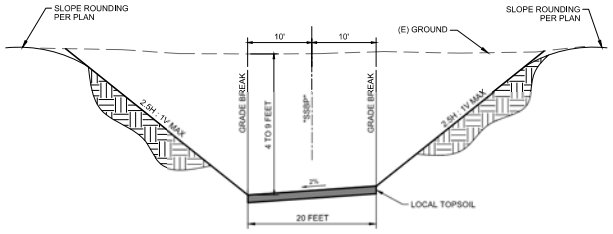
CITY OF SAN LUIS OBISPO

PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: MATTHEWS OPEN SPACE GRADING

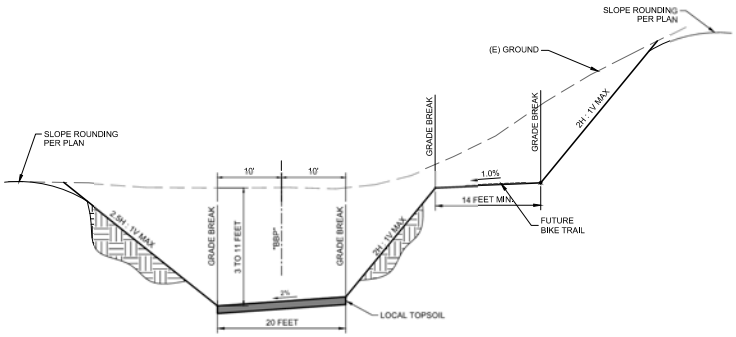
REGISTERED PROFESSIONAL ENGINEER — VALERIE G. HUFF — No. 72426 — FOR PLAN REVIEW ONLY NOT FOR CONSTRUCTION — CIVIL — STATE OF CALIFORNIA

DESIGNED BY:	VGH
DRAWN BY:	CK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	1" = 20'
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	0001-0091 GRAD.dwg
SHEET NO.	C-15 of 65



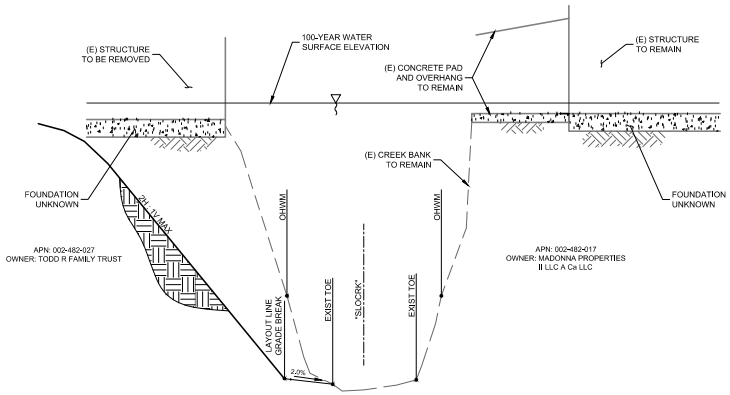
NOTES:
1. COMPACT GRADED SURFACES TO 90% RELATIVE COMPACTION.
2. SLOPE ROUNDING IS NOT REQUIRED WHERE BEDROCK IS ENCOUNTERED.
3. OVER-EXCAVATE BOTTOM OF CHANNEL TO A DEPTH OF 6-INCHES AND PLACE TOPSOIL TO ACHIEVE FINISH GRADE

1 TYPICAL SOUTH STREET BYPASS CHANNEL GRADING
REFERENCE SHEET C-10 SCALE: N.T.S.



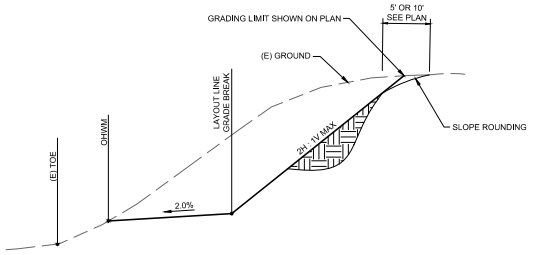
NOTES:
1. COMPACT GRADED SURFACES TO 90% RELATIVE COMPACTION.
2. SLOPE ROUNDING IS NOT REQUIRED WHERE BEDROCK IS ENCOUNTERED.
3. OVER-EXCAVATE BOTTOM OF CHANNEL TO A DEPTH OF 6-INCHES AND PLACE TOPSOIL TO ACHIEVE FINISH GRADE

2 BIANCHI BYPASS CHANNEL AND FUTURE BIKE TRAIL GRADING
REFERENCE SHEET C-12 SCALE: N.T.S.



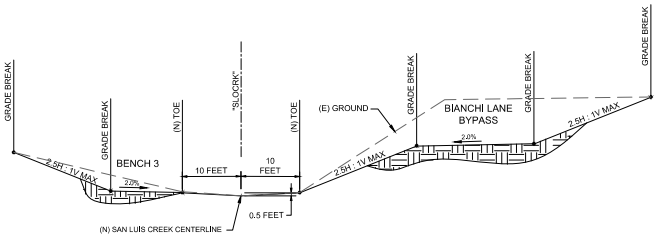
NOTES:
1. COMPACT GRADED SURFACES TO 90% RELATIVE COMPACTION.
2. BUILDING FOUNDATIONS ARE SCHEMATIC ONLY. FOUNDATION TYPE AND PHYSICAL CONDITION UNKNOWN.

3 TYPICAL SECTION AT BENCH 4
REFERENCE SHEET C-14 SCALE: N.T.S.



NOTES:
1. COMPACT GRADED SURFACES TO 90% RELATIVE COMPACTION.
2. SLOPE ROUNDING IS NOT REQUIRED WHERE BEDROCK IS ENCOUNTERED.

4 TYPICAL BENCH GRADING AND SLOPE ROUNDING
SCALE: N.T.S.



NOTES:
1. COMPACT GRADED SURFACES TO 90% RELATIVE COMPACTION.

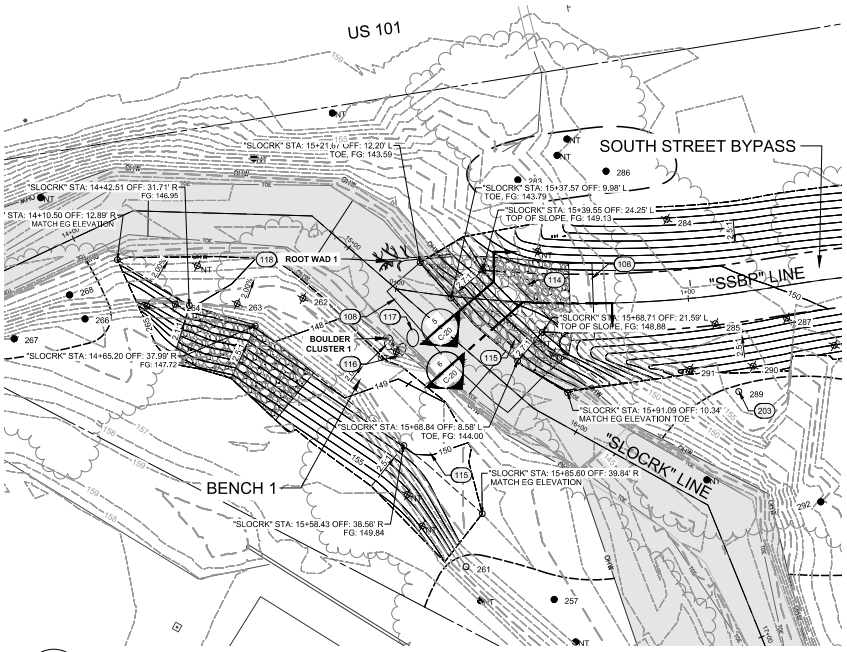
5 SAN LUIS CREEK BED AT BIANCHI LANE BRIDGE, STA 33+92.13 TO 35+70.38
REFERENCE SHEET C-13 Scale: N.T.S.

PROJECT TITLE: MID-HIGUERA BYPASS

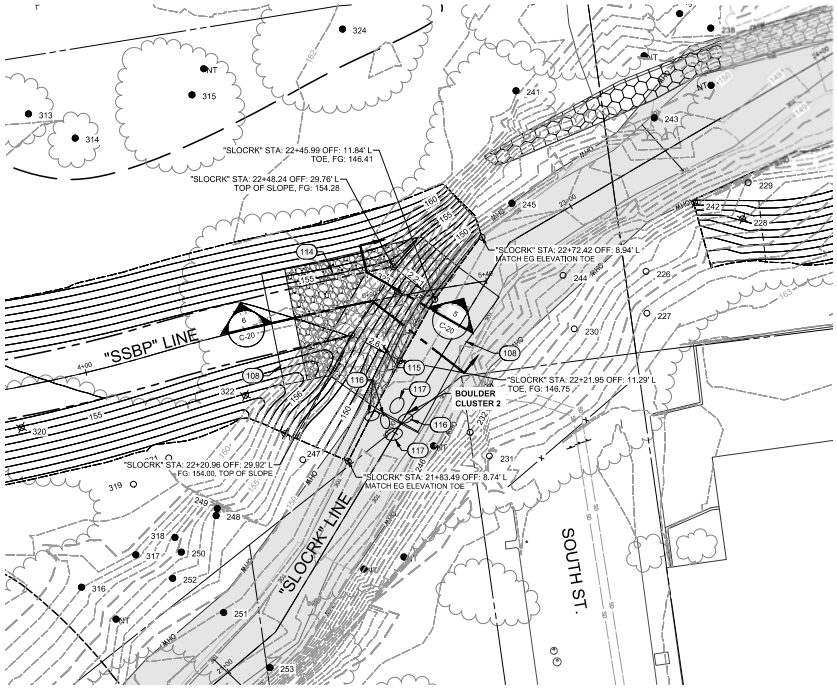
SHEET TITLE: GRADING DETAILS

REGISTERED PROFESSIONAL ENGINEER VALERIE G. HUFF No. 72426 FOR PLAN REVIEW ONLY NOT FOR CONSTRUCTION CIVIL STATE OF CALIFORNIA

DESIGNED BY: VGH
DRAWN BY: CK
CHECKED BY: CAC
APPROVED BY:
SCALE: AS SHOWN
DATE: 6/11/2024
CITY SPECIFICATION NO. 2090649
PLAN FILE NO. / LOCATION 0001-2091 GRAD.dwg
SHEET NO. C-16 of 65



1 C-17 BENCH 1 AND SOUTH STREET BYPASS EXIT - RSP DETAIL



2 C-17 SOUTH STREET BYPASS ENTRANCE - RSP DETAIL

REFERENCE NOTES:	
XXX	DESCRIPTION
100	GRADING
103	5-FT SLOPE ROUNDING, PER 4/C-16
104	10-FT SLOPE ROUNDING, PER 4/C-16
105	GRADE FROM THE LAYOUT LINE TO DAYLIGHT AT THE SLOPE SHOWN
106	TRANSITION SMOOTHLY TO (E) GRADE
107	SLOPE TO TOE AT 2.5:1 SLOPE IN THE DIRECTION SHOWN
108	RSP LIMITS
109	MATCH (E) GRADE
110	GRADE SMOOTHLY BETWEEN LAYOUT LINES
114	CLASS ■ VEGETATED RSP 2.0' THICK
115	CLASS IV VEGETATED RSP 2.5' THICK
116	3' X 5' X 3' H BOULDER, PLACE AS DIRECTED AND PER 4/C-20
117	4' X 6' X 2' H BOULDER, PLACE AS DIRECTED AND PER 4/C-20
118	ROOTWAD PER 1/C-20
600	SITEWORK
603	RECONSTRUCT FENCE (TYPE CL) PER CALTRANS STD A85
604	REMOVE BUILDING, SEE "A" SHEETS
607	TEMPORARY CONSTRUCTION ACCESS. PATH SHOWN IS SCHEMATIC. PROVIDE CONSTRUCTION PLAN TO BE APPROVED BY THE ENGINEER PRIOR TO GRADING IN ACCORDANCE WITH SPECIAL PROVISIONS SECTION 16-3. REGRADE TO PRECONSTRUCTION CONDITIONS, OR PER GRADING PLANS IN THE GRADING AREAS.
612	RELOCATE ROADSIDE SIGN (METAL POST) PER CITY STD 7210, ON EXISTING POST
635	RESET ROADSIDE SIGN (TWO METAL POST) PER CITY STD 7210, ON EXISTING POST
640	RESET ROADSIDE SIGN (METAL POST) PER CITY STD 7210, ON EXISTING POST
642	LOCATE AND EXPOSE (E) STORM DRAIN OUTFALL

NORTH

20 10 0 20

SCALE 1" = 20'

LEGEND

● 100	(E) TREE AND TAG NUMBER
● NT	(E) TREE WITHOUT TAG
⊠ 100	REMOVE (E) TREE
○ 100	(E) TREE. SEE NOTE PER EXISTING TREE PLAN
	TEMPORARY HIGH VISIBILITY FENCE
	PROPOSED SURFACE GRADING LIMIT
	BYPASS CHANNEL TOE
TOE	(E) TOE OF SLOPE
150	FINISHED GRADE CONTOUR
150	(E) GRADE CONTOUR
OHW	ORDINARY HIGH WATER MARK LIMIT
	ORDINARY HIGH WATER (OHW)
	PROPOSED RSP
	(E) CONCRETE SACK WALL
	CREEK DEWATERING LIMITS
	PARCEL LINE FROM CITY GIS

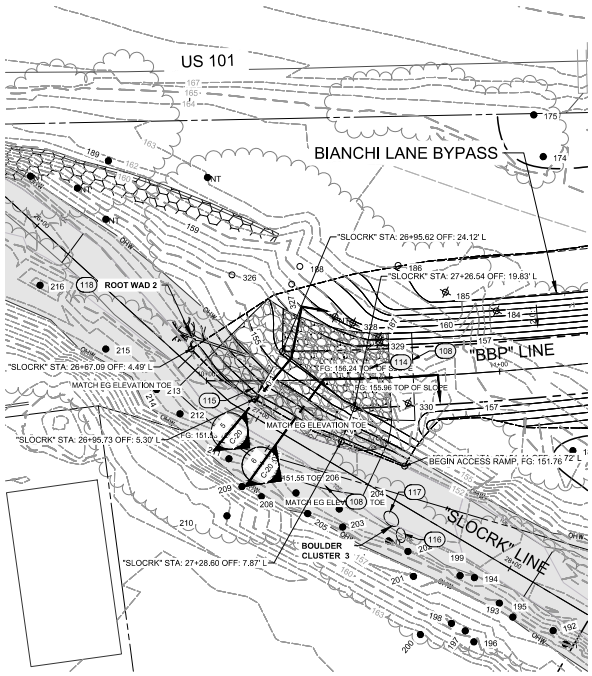
CITY OF SAN LUIS OBISPO

PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: SOUTH STREET BYPASS RSP

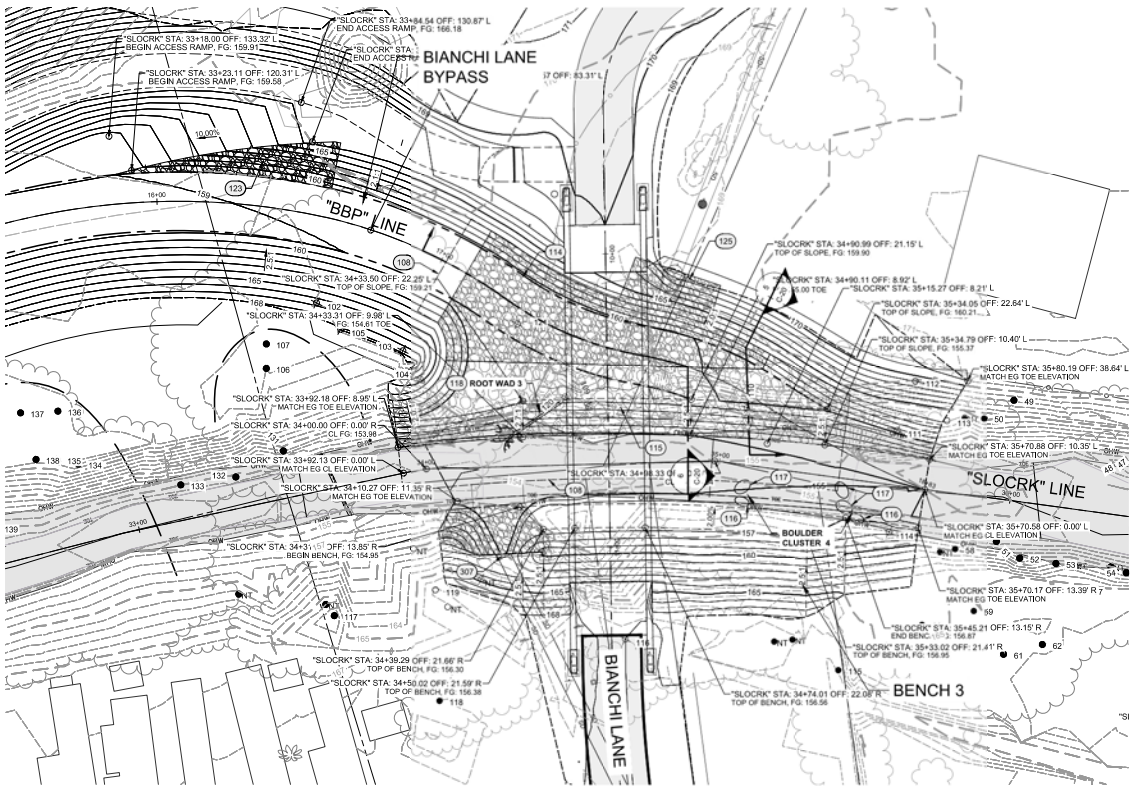
REGISTERED PROFESSIONAL ENGINEER
VALERIE G. HUFF
No. 72426
FOR PLAN REVIEW ONLY
NOT FOR CONSTRUCTION
CIVIL
STATE OF CALIFORNIA

DESIGNED BY: VGH
DRAWN BY: CK
CHECKED BY: CAC
APPROVED BY:
SCALE: 1" = 20'
DATE: 6/11/2024
CITY SPECIFICATION NO. 2090649
PLAN FILE NO. / LOCATION 0001-0091 GRAD.dwg
SHEET NO. C-17 of 65



1
C-18

BIANCHI LANE BYPASS EXIT - RSP DETAIL



2
C-18

BENCH 3 AND BIANCHI LANE BYPASS ENTRANCE - RSP DETAIL

REFERENCE NOTES:	
XXX	DESCRIPTION
100	GRADING
103	5-FT SLOPE ROUNDING, PER 4/C-16
104	10-FT SLOPE ROUNDING, PER 4/C-16
105	GRADE FROM THE LAYOUT LINE TO DAYLIGHT AT THE SLOPE SHOWN
106	TRANSITION SMOOTHLY TO (E) GRADE
107	SLOPE TO TOE AT 2.5:1 SLOPE IN THE DIRECTION SHOWN
108	RSP LIMITS
109	MATCH (E) GRADE
110	GRADE SMOOTHLY BETWEEN LAYOUT LINES
114	CLASS III VEGETATED RSP 2.0' THICK
115	CLASS IV VEGETATED RSP 2.5' THICK
116	3' X 5' X 3' H BOULDER, PLACE AS DIRECTED AND PER 4/C-20
117	4' X 6' X 2' H BOULDER, PLACE AS DIRECTED AND PER 4/C-20
118	ROOTWAD PER 1/C-20
123	CLASS III RSP 2.0' THICK, EXTEND TO 2' BELOW FINISHED SURFACE
125	RSP AT FLARED END SECTION PER DETAIL 3 SHEET C-31
300	STORM DRAIN
307	STORM DRAIN HEADWALL AND WINGWALLS PER CALTRANS STD D90 SHEET C-30 AND 1/C-30 2/C-30
600	SITEWORK
603	RECONSTRUCT FENCE (TYPE CL) PER CALTRANS STD A85
604	REMOVE BUILDING, SEE "A" SHEETS
607	TEMPORARY CONSTRUCTION ACCESS. PATH SHOWN IS SCHEMATIC. PROVIDE CONSTRUCTION PLAN TO BE APPROVED BY THE ENGINEER PRIOR TO GRADING IN ACCORDANCE WITH SPECIAL PROVISIONS SECTION 16-3. REGRADE TO PRECONSTRUCTION CONDITIONS, OR PER GRADING PLANS IN THE GRADING AREAS.
612	RELOCATE ROADSIDE SIGN (METAL POST) PER CITY STD 7210, ON EXISTING POST
635	RESET ROADSIDE SIGN (TWO METAL POST) PER CITY STD 7210, ON EXISTING POST
640	RESET ROADSIDE SIGN (METAL POST) PER CITY STD 7210, ON EXISTING POST

LEGEND

100	(E) TREE AND TAG NUMBER
NT	(E) TREE WITHOUT TAG
100	REMOVE (E) TREE
100	(E) TREE, SEE NOTE PER EXISTING TREE PLAN
	TEMPORARY HIGH VISIBILITY FENCE
	PROPOSED SURFACE GRADING LIMIT
	BYPASS CHANNEL TOE
TOE	(E) TOE OF SLOPE
150	FINISHED GRADE CONTOUR
150	(E) GRADE CONTOUR
OHW	ORDINARY HIGH WATER MARK LIMIT
	ORDINARY HIGH WATER (OHW)
	PROPOSED RSP
	(E) CONCRETE SACK WALL
	CREEK DEWATERING LIMITS
	PARCEL LINE FROM CITY GIS

NORTH

20 10 0 20

SCALE 1" = 20'

CITY OF SAN LUIS OBISPO

MID-HIGUERA BYPASS

PROJECT TITLE:

BIANCHI LANE BYPASS RSP

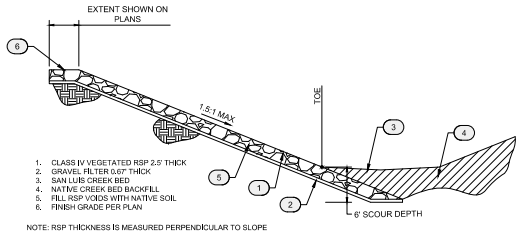
SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER
VALERIE G. HUFF
No. 72426
FOR PLAN REVIEW ONLY
NOT FOR CONSTRUCTION
CIVIL
STATE OF CALIFORNIA

DESIGNED BY:	VGH
DRAWN BY:	CK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	1" = 20'
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	0001-0091 GRAD.dwg
SHEET NO.	C-18 of 65

1 C-19 BENCH 4 AND MATTHEWS OPEN SPACE - RSP DETAIL

REFER TO SHEET C-27 FOR UTILITY AND CIVIL IMPROVEMENTS AT MATTHEWS OPEN SPACE



NOTE: RSP THICKNESS IS MEASURED PERPENDICULAR TO SLOPE

1 BENCH 4 RSP

Scale: N.T.S.

REFERENCE NOTES:	
XXX	DESCRIPTION
100	GRADING
103	5-FT SLOPE ROUNDING, PER 4/C-16
104	10-FT SLOPE ROUNDING, PER 4/C-16
105	GRADE FROM THE LAYOUT LINE TO DAYLIGHT AT THE SLOPE SHOWN
106	TRANSITION SMOOTHLY TO (E) GRADE
107	SLOPE TO TOE AT 2.5:1 SLOPE IN THE DIRECTION SHOWN
108	RSP LIMITS
109	MATCH (E) GRADE
110	GRADE SMOOTHLY BETWEEN LAYOUT LINES
114	CLASS III VEGETATED RSP 2.0' THICK
115	CLASS IV VEGETATED RSP 2.5' THICK
120	OVEREXCAVATE TO A DEPTH OF 6-INCHES AND PLACE TOPSOIL TO ACHIEVE FINISHED GRADE
121	GRADE 1' SUMP AT (N) GRATE INLET
122	FINISHED GRADE AT (N) CONCRETE FLARED END SECTION PER DETAIL X SHEET C-30
124	FOLLOWING BUILDING REMOVAL, GRADE PAD TO DRAIN TO CREEK
600	SITEWORK
603	RECONSTRUCT FENCE (TYPE CL) PER CALTRANS STD A85
604	REMOVE BUILDING, SEE "A" SHEETS
646	REMOVE (E) RAILROAD TIE RETAINING WALL AND CONCRETE RUBBLE
647	(E) RETAINING WALL TO REMAIN, PROTECT IN PLACE

LEGEND

- 100 — (E) TREE AND TAG NUMBER
- NT — (E) TREE WITHOUT TAG
- 100 — REMOVE (E) TREE
- 100 — (E) TREE, SEE NOTE PER EXISTING TREE PLAN
- TEMPORARY HIGH VISIBILITY FENCE
- PROPOSED SURFACE GRADING LIMIT
- BYPASS CHANNEL TOE
- TOE — (E) TOE OF SLOPE
- 150 — FINISHED GRADE CONTOUR
- 150 — (E) GRADE CONTOUR
- OHW — ORDINARY HIGH WATER MARK LIMIT
- ORDINARY HIGH WATER (OHW)
- PROPOSED RSP
- (E) CONCRETE SACK WALL
- CREEK DEWATERING LIMITS
- PARCEL LINE FROM CITY GIS

NORTH

20 10 0 20

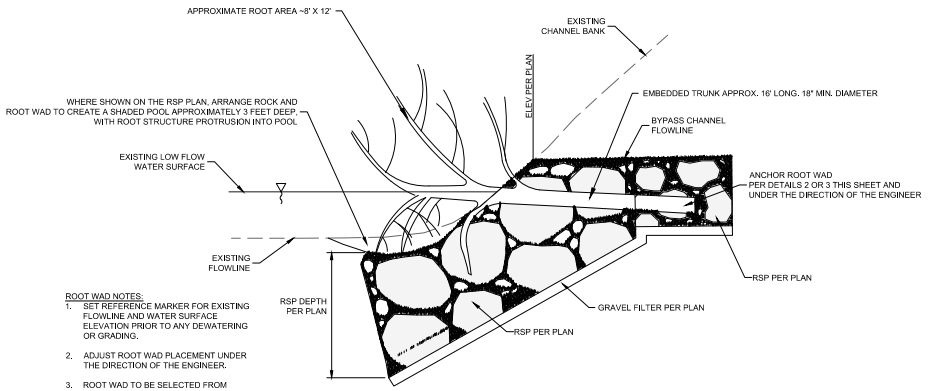
SCALE 1" = 20'

PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: BENCH 4 RSP

REGISTERED PROFESSIONAL ENGINEER VALERIE G. HUFF No. 72426 FOR PLAN REVIEW ONLY NOT FOR CONSTRUCTION CIVIL STATE OF CALIFORNIA

DESIGNED BY: VGH
DRAWN BY: CK
CHECKED BY: CAC
APPROVED BY:
SCALE: 1" = 20'
DATE: 6/11/2024
CITY SPECIFICATION NO. 2090649
PLAN FILE NO. / LOCATION 0001-0091 GRAD.dwg
SHEET NO. C-19 of 65

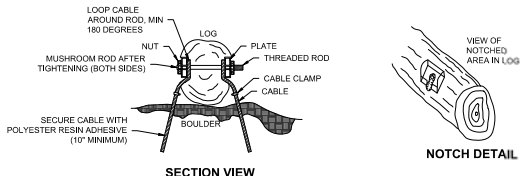


ROOT WAD NOTES:

1. SET REFERENCE MARKER FOR EXISTING FLOWLINE AND WATER SURFACE ELEVATION PRIOR TO ANY DEWATERING OR GRADING.
2. ADJUST ROOT WAD PLACEMENT UNDER THE DIRECTION OF THE ENGINEER.
3. ROOT WAD TO BE SELECTED FROM ON-SITE TREE REMOVALS SUBJECT TO THE APPROVAL OF THE ENGINEER.
4. ROOT WAD TO BE EMBEDDED IN RSP AS SHOWN.
5. EACH ROOT WAD SHALL HAVE A MINIMUM OF TWO ANCHORS.

1 ROOT WAD DETAIL

SCALE: N.T.S.



SECTION VIEW

NOTCH DETAIL

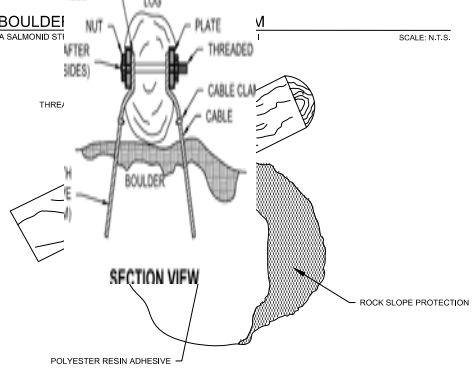
NOTES:

1. USE MINIMUM 5/8" GALVANI ROD. PULL CABLE TIGHT, AND CLEAN FREE OF GREASE OR OTHE
2. DRILL HOLE TO BE 10" LONG THAN THE CABLE. DRILL HOLES IN LINE WITH THE CABLE SO THAT HE ENTRY.
3. DRILL HOLES INTO DURABL ELECT LARGER RSP BOULDERS OR BOULDERS THAT ARE DEEP
4. FILL HOLE 2/3 DEEP WITH P IUFACTURER'S RECOMMENDATIONS.

2 LOG TO BOULDEI

PER CALIFORNIA SALMONID STI

SCALE: N.T.S.



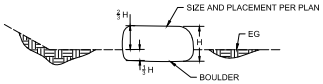
NOTES:

1. USE MINIMUM 5/8" GALVANIZED STEEL CABLE OR GALVANIZED THREADED ROD. PULL CABLE TIGHT, AND CLEAN FREE OF GREASE OR OTHER CONTAMINANTS PRIOR TO ANCHORING.
2. DRILL HOLE TO BE 10" LONG AND NOT MORE THAN 1/8" LARGER DIAMETER THAN THE CABLE. DRILL HOLES IN LINE WITH THE CABLE SO THAT THE CABLE DOES NOT HAVE SHARP BEND AT THE ENTRY.
3. DRILL HOLES INTO DURABLE UNFRACTURED BEDROCK OR RSP. IN RSP, SELECT LARGER RSP BOULDERS OR BOULDERS THAT ARE DEEPER IN THE RSP LAYER.
4. FILL HOLE 2/3 DEEP WITH POLYESTER ANCHORING EPOXY. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS.

3 BEDROCK AND BOULDER ANCHORS USING THREADED ROD

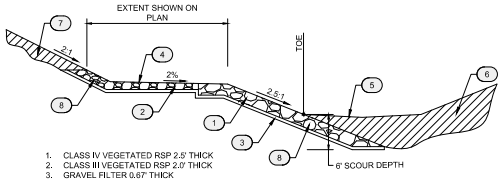
PER CALIFORNIA SALMONID STREAM HABITAT RESTORATION MANUAL, PART VII

SCALE: N.T.S.



4 BOULDER PLACEMENT SECTION

SCALE: N.T.S.

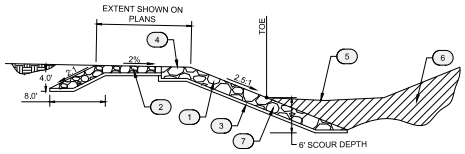


1. CLASS IV VEGETATED RSP 2.5' THICK
2. CLASS III VEGETATED RSP 2.0' THICK
3. GRAVEL FILTER 0.67' THICK
4. BYPASS CHANNEL BED
5. SAN LUIS CREEK BED
6. NATIVE CREEK BED BACKFILL
7. CREEK BANK BACKFILL, 90% RELATIVE COMPACTION
8. FILL RSP VOIDS WITH NATIVE SOIL

NOTE: RSP THICKNESS IS MEASURED PERPENDICULAR TO SLOPE

5 RSP AT BYPASS ENTRANCE/EXIT

Scale: N.T.S.



1. CLASS IV VEGETATED RSP 2.5' THICK
2. CLASS III VEGETATED RSP 2.0' THICK
3. GRAVEL FILTER 0.67' THICK
4. BYPASS CHANNEL BED
5. SAN LUIS CREEK BED
6. NATIVE CREEK BED BACKFILL
7. FILL RSP VOIDS WITH NATIVE SOIL

NOTE: RSP THICKNESS IS MEASURED PERPENDICULAR TO SLOPE

6 RSP AT BYPASS ENTRANCE/EXIT FLOWLINE

Scale: N.T.S.

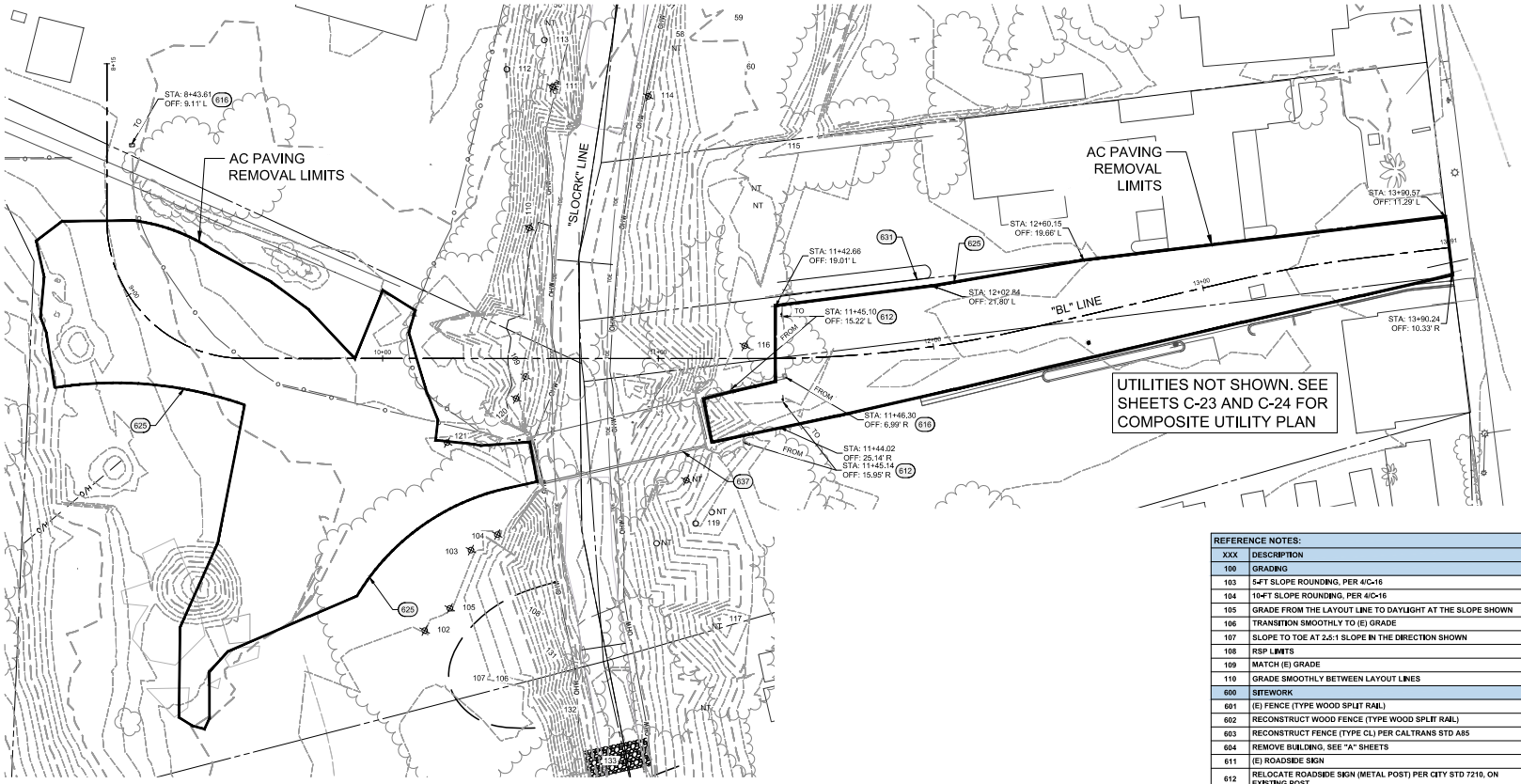
CITY OF SAN LUIS OBISPO

PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: RSP DETAILS

REGISTERED PROFESSIONAL ENGINEER VALERIE G. HUFF No. 72426 FOR PLAN REVIEW ONLY NOT FOR CONSTRUCTION CIVIL STATE OF CALIFORNIA

DESIGNED BY:	VGH
DRAWN BY:	CK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	AS SHOWN
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	0001-0091 GRAD.dwg
SHEET NO.	C-20 of 65



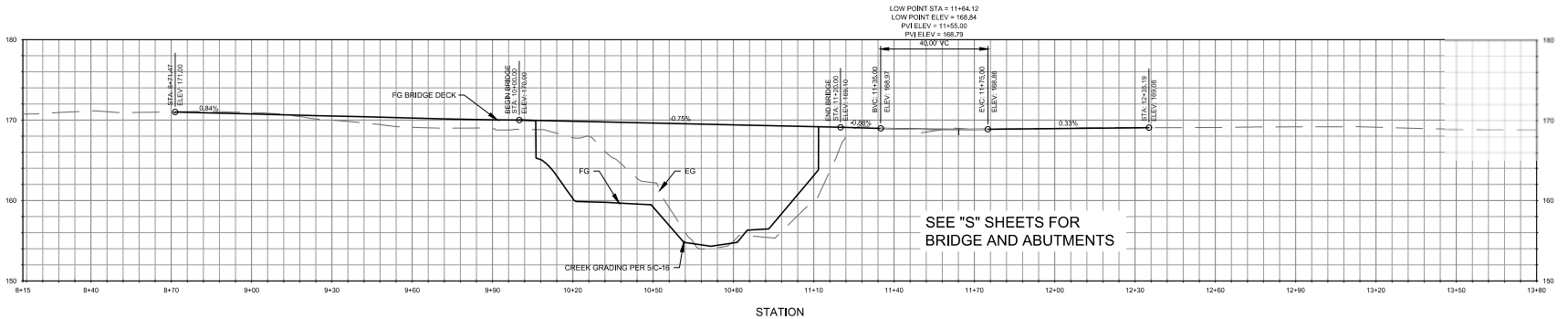
REFERENCE NOTES:	
XXX	DESCRIPTION
100	GRADING
103	5-FT SLOPE ROUNDING, PER 4/C-16
104	10-FT SLOPE ROUNDING, PER 4/C-16
105	GRADE FROM THE LAYOUT LINE TO DAYLIGHT AT THE SLOPE SHOWN
106	TRANSITION SMOOTHLY TO (E) GRADE
107	SLOPE TO TOE AT 2.5:1 SLOPE IN THE DIRECTION SHOWN
108	RSP LIMITS
109	MATCH (E) GRADE
110	GRADE SMOOTHLY BETWEEN LAYOUT LINES
600	SITEWORK
601	(E) FENCE (TYPE WOOD SPLIT RAIL)
602	RECONSTRUCT WOOD FENCE (TYPE WOOD SPLIT RAIL)
603	RECONSTRUCT FENCE (TYPE CL) PER CALTRANS STD A85
604	REMOVE BUILDING, SEE "A" SHEETS
611	(E) ROADSIDE SIGN
612	RELOCATE ROADSIDE SIGN (METAL POST) PER CITY STD 7210, ON EXISTING POST
616	RELOCATE MAILBOX
621	4" THERMOPLASTIC TRAFFIC STRIPE, MATCH (E)
622	12" THERMOPLASTIC TRAFFIC STRIPE, MATCH (E)
624	(E) HMA PAVING TO REMAIN, MATCH AT JOINTS.
625	REMOVE BASE AND SURFACING. LIMITS SHOWN ARE APPROXIMATE. CONFIRM LIMITS WITH ENGINEER.
627	HMA PAVING PER CITY STD, 7110 (4" HMA OVER 7" CLASS 2 BASE OVER 10" CLASS 3 SUBBASE)
628	6" CLASS 2 AGGREGATE BASE, 95% RELATIVE COMPACTION
629	COMPACTED NATIVE, 95% RELATIVE COMPACTION
631	(E) CURB AND VALLEY GUTTER TO REMAIN
633	4' x 9' CONCRETE SLAB FOR CRASH CUSHION PER 5/C-28
634	QUADGUARD II CRASH CUSHION, SINGLE BAY, 24-INCH WIDE, TENSION STRUT BACKUP
637	REMOVE (E) BRIDGE, ABUTMENTS, AND WING WALLS
643	(N) POLE PER 6/C-28
644	(N) 12' MANUAL SINGLE SWING BARRIER GATE WITH RECEIVER POST. SENTINEL 14010-12 OR APPROVED EQUAL
645	(N) SWING GATE BARRIER RECEIVER POST, SENTINEL 14030R OR APPROVED EQUAL

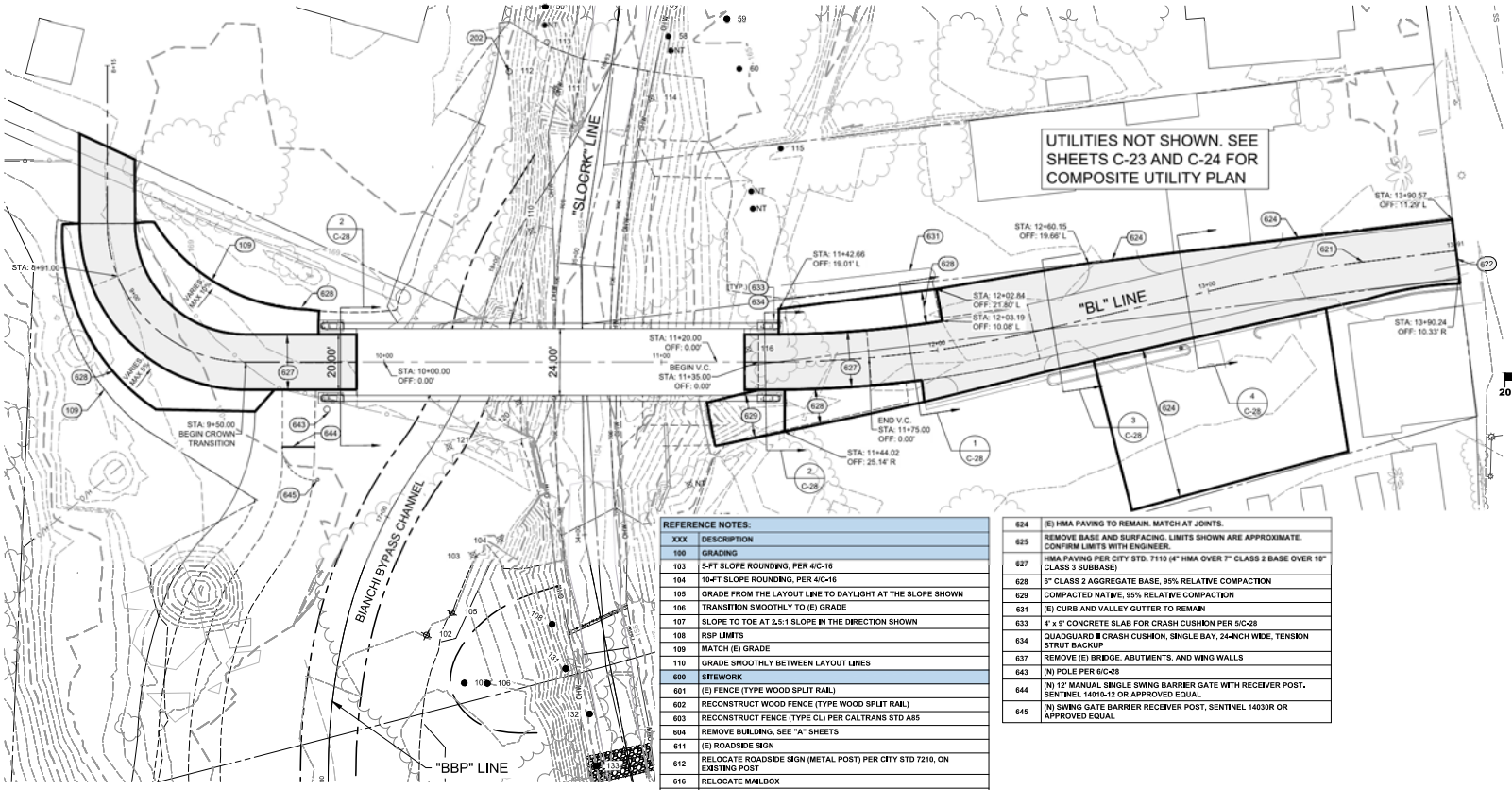
PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: BIANCHI LANE DEMOLITION PLAN

REGISTERED PROFESSIONAL ENGINEER
VALERIE G. HUFF
No. 72426
FOR PLAN REVIEW ONLY
NOT FOR CONSTRUCTION
CIVIL
STATE OF CALIFORNIA

DESIGNED BY:	VGH
DRAWN BY:	CK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	1" = 20'
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	0061-2091 GRAD.dwg
SHEET NO.	C-21 of 65





REFERENCE NOTES:	
XXX	DESCRIPTION
100	GRADING
103	5-FT SLOPE ROUNDING, PER 4/C-16
104	10-FT SLOPE ROUNDING, PER 4/C-16
105	GRADE FROM THE LAYOUT LINE TO DAYLIGHT AT THE SLOPE SHOWN
106	TRANSITION SMOOTHLY TO (E) GRADE
107	SLOPE TO TOE AT 2.5:1 SLOPE IN THE DIRECTION SHOWN
108	RSP LIMITS
109	MATCH (E) GRADE
110	GRADE SMOOTHLY BETWEEN LAYOUT LINES
600	SITEWORK
601	(E) FENCE (TYPE WOOD SPLIT RAIL)
602	RECONSTRUCT WOOD FENCE (TYPE WOOD SPLIT RAIL)
603	RECONSTRUCT FENCE (TYPE CL) PER CALTRANS STD A85
604	REMOVE BUILDING, SEE "A" SHEETS
611	(E) ROADSIDE SIGN
612	RELOCATE ROADSIDE SIGN (METAL POST) PER CITY STD 7210, ON EXISTING POST
616	RELOCATE MAILBOX
621	4" THERMOPLASTIC TRAFFIC STRIPE, MATCH (E)
622	12" THERMOPLASTIC TRAFFIC STRIPE, MATCH (E)

624	(E) HMA PAVING TO REMAIN. MATCH AT JOINTS.
625	REMOVE BASE AND SURFACING. LIMITS SHOWN ARE APPROXIMATE. CONFIRM LIMITS WITH ENGINEER.
627	HMA PAVING PER CITY STD. 7110 (4" HMA OVER 7" CLASS 2 BASE OVER 10" CLASS 3 SUBBASE)
628	6" CLASS 2 AGGREGATE BASE, 95% RELATIVE COMPACTION
629	COMPACTED NATIVE, 95% RELATIVE COMPACTION
631	(E) CURB AND VALLEY GUTTER TO REMAIN
633	4' x 9' CONCRETE SLAB FOR CRASH CUSHION PER 5/C-28
634	QUADGUARD II CRASH CUSHION, SINGLE BAY, 24-INCH WIDE, TENSION STRUT BACKUP
637	REMOVE (E) BRIDGE, ABUTMENTS, AND WING WALLS
643	(N) POLE PER 6/C-28
644	(N) 12' MANUAL SINGLE SWING BARRIER GATE WITH RECEIVER POST. SENTINEL 14010-12 OR APPROVED EQUAL
645	(N) SWING GATE BARRIER RECEIVER POST, SENTINEL 14030R OR APPROVED EQUAL

CITY OF SAN LUIS OBISPO

MID-HIGUERA BYPASS

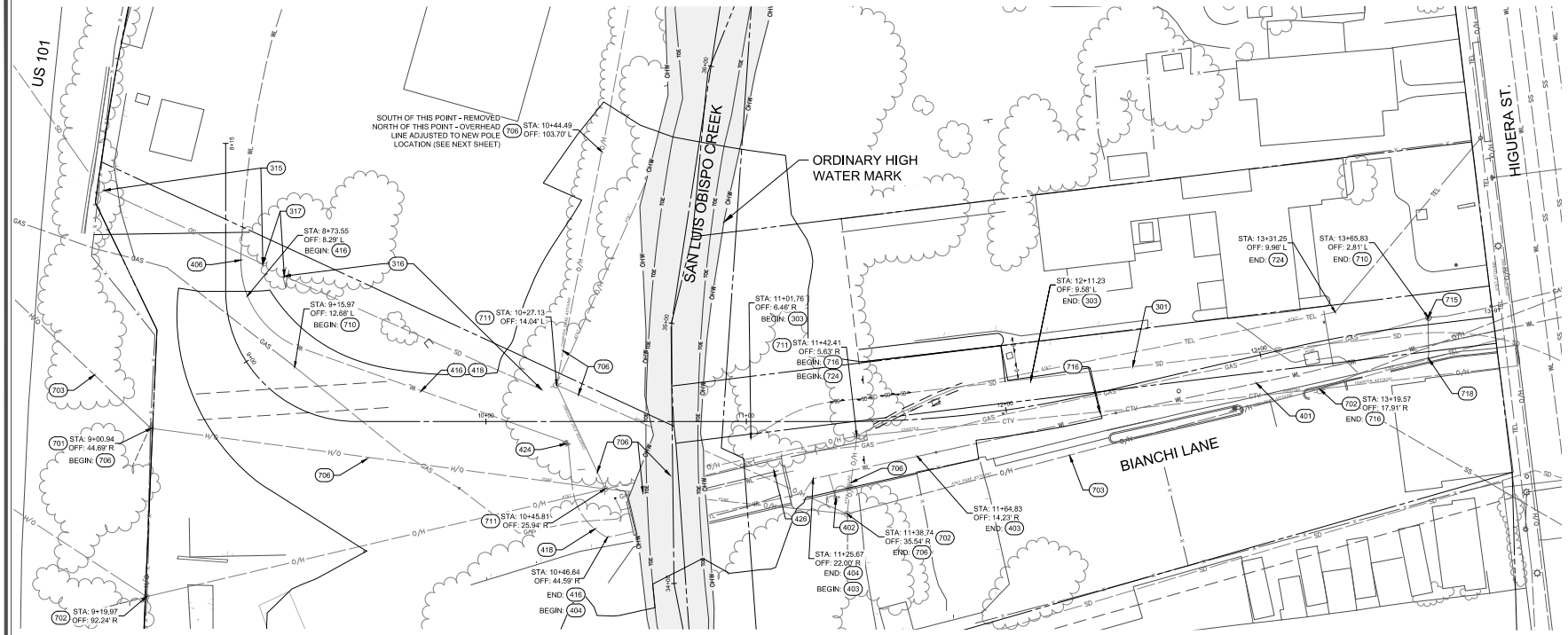
PROJECT TITLE:

BIANCHI LANE PLAN & PROFILE

SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER
VALERIE G. HUFF
No. 72426
FOR PLAN REVIEW ONLY
NOT FOR CONSTRUCTION
CIVIL
STATE OF CALIFORNIA

DESIGNED BY:	VGH
DRAWN BY:	CK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	1" = 20'
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	0061-2091 GRAD.dwg
SHEET NO.	C-22 of 65



EXISTING UTILITIES AND DEMOLITION PLAN

Scale: 1" = 20'

NORTH

20 10 0 20

SCALE 1" = 20'

LEGEND:

- ORDINARY HIGH WATER MARK (OHW)
- ORDINARY HIGH WATER MARK LIMIT
- PROPOSED GRADING LIMIT
- PARCEL LINE FROM CITY GIS
- BYPASS CHANNEL TOE
- (E) TOE OF SLOPE
- PROPOSED RSP
- (N) HMA PAVING
- (E) STORM DRAIN
- (E) GRAVITY SEWER LINE
- (E) WATER LINE
- (E) UNDERGROUND GAS LINE
- (E) OVERHEAD UTILITY LINE LOCATION
- (E) UNDERGROUND CABLE TELEVISION LINE
- (E) UNDERGROUND TELEPHONE LINE
- PROPOSED STORM DRAIN
- PROPOSED SEWER
- PROPOSED WATER
- PROPOSED GAS
- PROPOSED OVERHEAD LINE
- PROPOSED UNDERGROUND TELEPHONE LINE
- PROPOSED UNDERGROUND CABLE LINE

REFERENCE NOTES:	
XXX	DESCRIPTION
300	STORM DRAIN
301	(E) 54" RCP STORM DRAIN TO REMAIN
302	(N) 84" STORM DRAIN MANHOLE PER CITY STD. 3510. CONNECT TO (E) 54" RCP STORM DRAIN. VERIFY ELEVATION OF (E) 54" RCP PRIOR TO INSTALLING DOWNSTREAM PIPE.
303	REMOVE (E) STORM DRAIN (54" RCP)
304	(N) 54" RCP STORM DRAIN
305	ROCK SLOPE PROTECTION AT STORM DRAIN OUTLET PER 3/C-30
307	STORM DRAIN HEADWALL AND WINGWALLS PER CALTRANS STD D90 SHEET C-30 AND 1/C-30 2/C-30
308	STORM DRAIN HEADWALL PER CALTRANS STD D90 SHEET C-28. TOP OF WALL ELEV 172.5'.
309	(N) 48" HDPE SD. SLURRY BACKFILL
310	(N) 48"x48"x24" HDPE TEE
311	(N) 24" HDPE RISER AND 24" TRAFFIC RATED GRATE INLET. TOP OF GRATE ELEV 167.9'.
312	(N) 48" RCP SD
313	(N) CONCRETE PIPE COLLAR
314	(N) 48" RCP FLARED END SECTION.
315	REMOVE (E) STORM DRAIN (48" CMP, 52" STEEL)
316	REMOVE (E) STORM DRAIN (24" HDPE, 18" CMP)
317	REMOVE (E) STORM DRAIN HEADWALL (ROCK AND SACK CONCRETE)
400	WATER SYSTEM
401	(E) 6" PVC WL TO REMAIN
402	REMOVE (E) FIRE HYDRANT ASSEMBLY
403	REMOVE (E) 6" PVC WL
404	REMOVE (E) 2" WATER SERVICE LATERAL AND 4" CI CASING UNDER (E) BRIDGE
405	FIRE HYDRANT ASSEMBLY PER CITY STD 6310

406	(E) 2" WATER SERVICE TO REMAIN
407	CONNECT TO (E) 6" PVC WL
408	(N) DUCTILE IRON 22.5 DEGREE ELBOW
409	(N) 6" DIP WL ATTACHED TO BRIDGE - SEE SHEET S-9 FOR PIPE SUPPORT BRACKET
410	(N) DUCTILE IRON 11.25 DEGREE ELBOW
411	(N) 6" PVC WL
412	CONNECT TO (E) 2" WATER SERVICE, PER CITY STD 6220, VERIFY LOCATION.
413	(N) WATERLINE AT CRASH CUSHION CONCRETE PAD PER 2/C-25
414	3/4" (N) WATER SERVICE AND METER PER CITY STD. 6210
415	1" QUICK COUPLER VALVE AND BOX PER CITY STD 8630
416	REMOVE (E) 2" WATER SERVICE. PROVIDE TEMPORARY SERVICE DURING CONSTRUCTION
417	IRRIGATION SERVICE ASSEMBLY PER CITY STD 8560
418	APPROXIMATE LOCATION OF (E) 2" SERVICE LINE. VERIFY LOCATION.
419	6" DUCTILE IRON FORCE BALANCED FLEXIBLE EXPANSION JOINT, RATED FOR 8" LINEAR EXPANSION
420	6" DUCTILE IRON FORCE BALANCED LINEAR EXPANSION JOINT, RATED FOR 8" LINEAR EXPANSION
421	6" DUCTILE IRON 45 DEGREE ELBOW. ROTATE AS NEEDED TO ACHIEVE HORIZONTAL CLEARANCE FROM CRASH CUSHION PAD PER 2/C-25.
422	CONNECT TO (E) 8" PVC WATERLINE, PER CITY STD 6210.
423	(E) FIRE HYDRANT TO REMAIN
424	REMOVE (E) 2" WATER METER, VERIFY LOCATION.
425	STUB OUT (N) 6" PVC. (N) 6" END CAP AND THRUST BLOCK
426	(E) ABANDONED 6" CI WATERLINE UNDER BRIDGE, CONFIRM WATERLINE IS NOT ACTIVE AND REMOVE.
427	(N) 6" WATER VALVE AND WELL PER CITY STD. 6340
428	1 INCH COMBINATION AIR VALVE PER 3/C-25
429	CUT AND CAP (E) WATER SERVICE. REMOVE (E) WATER SERVICE LATERAL WITHIN LIMITS OF GRADING. PIPE MATERIAL AND SIZE UNKNOWN.

600	SITEWORK
638	(N) DRIVEWAY RAMP PER CITY STD 2110 (MODIFIED) PER DETAILS 1&2/C-27
700	UTILITIES
701	(E) UTILITY POLE TO REMAIN
702	(E) UTILITY POLE AND GUY TO REMAIN
703	(E) OVERHEAD (OH) UTILITY LINE TO REMAIN
706	(E) OVERHEAD LINE TO BE REMOVED AND RELOCATED BY OTHERS
707	(N) UTILITY POLE BY OTHERS
709	(N) GAS LINE IN BIANCHI LANE AND UNDERNEATH SAN LUIS OBISPO CREEK BY OTHERS.
710	(E) GAS LINE TO BE RELOCATED BY OTHERS
711	(E) UTILITY POLE TO BE REMOVED AND RELOCATED BY OTHERS
712	(N) OVERHEAD UTILITY LINES BY OTHERS
715	(E) GAS VALVE TO REMAIN
716	(E) UNDERGROUND CABLE LINE TO BE REMOVED BY OTHERS
718	(E) UNDERGROUND TELEPHONE LINE TO REMAIN
719	(E) UNDERGROUND CABLE LINE TO REMAIN
720	REMOVE (E) SEPTIC SYSTEM
721	(N) UNDERGROUND TELEPHONE LINE BY OTHERS
722	(N) OVERHEAD CABLE LINE BY OTHERS
723	(E) UNDERGROUND COMMUNICATION LINES TO REMAIN
724	(E) UNDERGROUND TELEPHONE LINE TO BE RELOCATED BY OTHERS
725	CUT AND CAP (E) ELECTRICAL SERVICE. REMOVE (E) CONDUIT WITHIN LIMITS OF GRADING, MATERIAL AND SIZE UNKNOWN

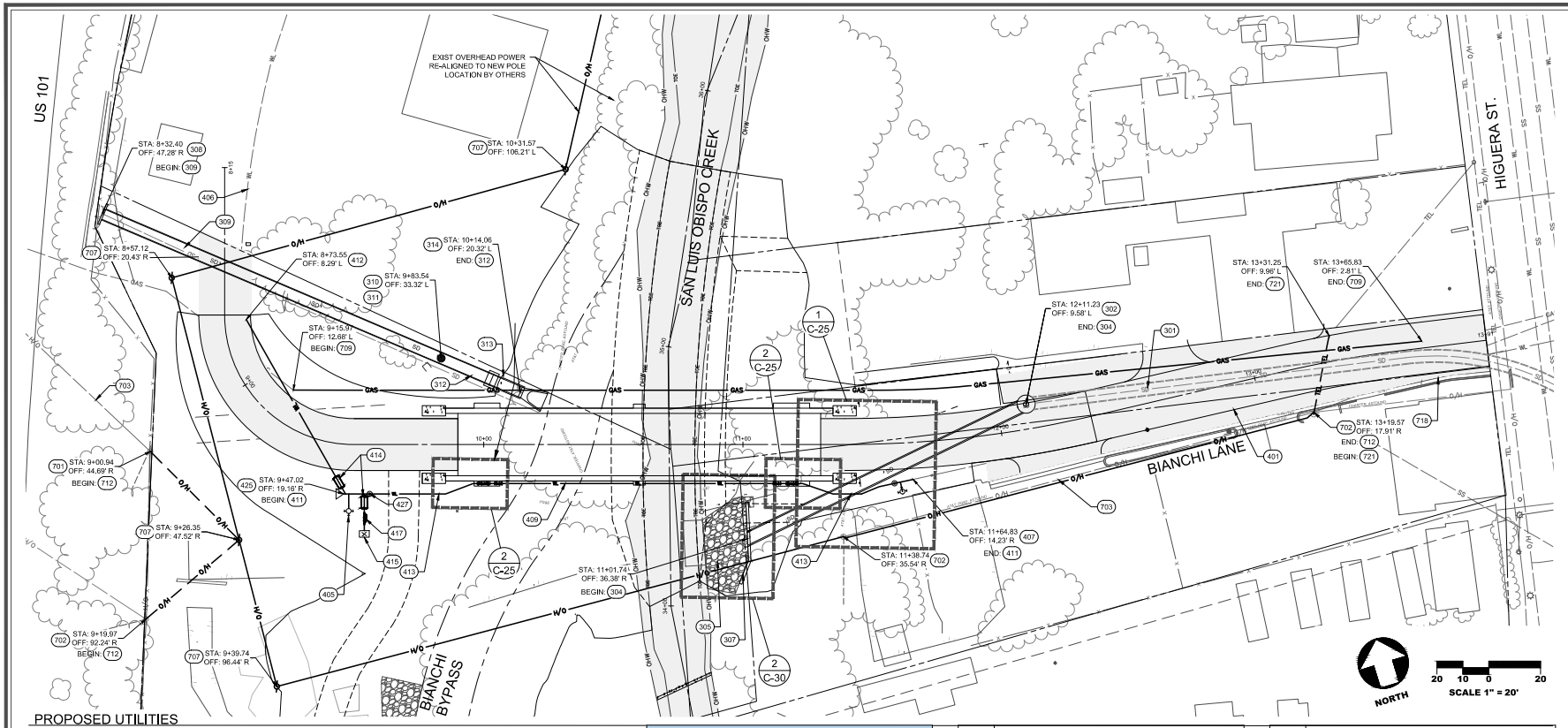
CITY OF SAN LUIS OBISPO

PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: BIANCHI LANE UTILITY PLAN - EXISTING

REGISTERED PROFESSIONAL ENGINEER VALERIE G. HUFF No. 72426 FOR PLAN REVIEW ONLY NOT FOR CONSTRUCTION CIVIL STATE OF CALIFORNIA

DESIGNED BY:	VGH
DRAWN BY:	CK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	1" = 20'
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	
SHEET NO.	C-23 of 65



PROPOSED UTILITIES

LEGEND:

- PROPOSED RSP
- (N) HMA PAVING
- ORDINARY HIGH WATER MARK (OHW)
- ORDINARY HIGH WATER MARK LIMIT
- PROPOSED GRADING LIMIT
- PARCEL LINE FROM CITY GIS
- BYPASS CHANNEL TOE
- (E) TOE OF SLOPE
- (E) STORM DRAIN
- (E) GRAVITY SEWER LINE
- (E) WATER LINE
- (E) UNDERGROUND GAS LINE
- (E) OVERHEAD UTILITY LINE LOCATION
- (E) UNDERGROUND CABLE TELEVISION LINE
- (E) UNDERGROUND TELEPHONE LINE
- PROPOSED STORM DRAIN
- PROPOSED SEWER
- PROPOSED WATER
- PROPOSED GAS
- PROPOSED OVERHEAD LINE
- PROPOSED UNDERGROUND TELEPHONE LINE
- PROPOSED UNDERGROUND CABLE LINE

REFERENCE NOTES:	
XXX	DESCRIPTION
300	STORM DRAIN
301	(E) 54" RCP STORM DRAIN TO REMAIN
302	(N) 84" STORM DRAIN MANHOLE PER CITY STD. 3510. CONNECT TO (E) 54" RCP STORM DRAIN. VERIFY ELEVATION OF (E) 54" RCP PRIOR TO INSTALLING DOWNSTREAM PIPE.
303	REMOVE (E) STORM DRAIN (54" RCP)
304	(N) 54" RCP STORM DRAIN
305	ROCK SLOPE PROTECTION AT STORM DRAIN OUTLET PER 3/C-30
307	STORM DRAIN HEADWALL AND WINGWALLS PER CALTRANS STD D90 SHEET C-30 AND 1/C-30 2/C-30
308	STORM DRAIN HEADWALL PER CALTRANS STD D90 SHEET C-28. TOP OF WALL ELEV 172.5'.
309	(N) 48" HDPE SD, SLURRY BACKFILL
310	(N) 48"x48"x24" HDPE TEE
311	(N) 24" HDPE RISER AND 24" TRAFFIC RATED GRATE INLET. TOP OF GRATE ELEV 167.9'.
312	(N) 48" RCP SD
313	(N) CONCRETE PIPE COLLAR
314	(N) 48" RCP FLARED END SECTION.
315	REMOVE (E) STORM DRAIN (48" CMP, 52" STEEL)
316	REMOVE (E) STORM DRAIN (24" HDPE, 18" CMP)
317	REMOVE (E) STORM DRAIN HEADWALL (ROCK AND SACK CONCRETE)
400	WATER SYSTEM
401	(E) 6" PVC WL TO REMAIN
402	REMOVE (E) FIRE HYDRANT ASSEMBLY
403	REMOVE (E) 6" PVC WL
404	REMOVE (E) 2" WATER SERVICE LATERAL AND 4" CI CASING UNDER (E) BRIDGE
405	FIRE HYDRANT ASSEMBLY PER CITY STD 6310
406	(E) 2" WATER SERVICE TO REMAIN
407	CONNECT TO (E) 6" PVC WL
408	(N) DUCTILE IRON 22.5 DEGREE ELBOW
409	(N) 6" DIP WL ATTACHED TO BRIDGE - SEE SHEET S-9 FOR PIPE SUPPORT BRACKET
410	(N) DUCTILE IRON 11.25 DEGREE ELBOW
411	(N) 6" PVC WL
412	CONNECT TO (E) 2" WATER SERVICE, PER CITY STD 6220. VERIFY LOCATION.
413	(N) WATERLINE AT CRASH CUSHION CONCRETE PAD PER 2/C-25
414	3/4" (N) WATER SERVICE AND METER PER CITY STD. 6210
415	1" QUICK COUPLER VALVE AND BOX PER CITY STD 8630
416	REMOVE (E) 2" WATER SERVICE, PROVIDE TEMPORARY SERVICE DURING CONSTRUCTION
417	IRRIGATION SERVICE ASSEMBLY PER CITY STD 8560
418	APPROXIMATE LOCATION OF (E) 2" SERVICE LINE. VERIFY LOCATION.
419	6" DUCTILE IRON FORCE BALANCED FLEXIBLE EXPANSION JOINT, RATED FOR 8" LINEAR EXPANSION
420	6" DUCTILE IRON FORCE BALANCED LINEAR EXPANSION JOINT, RATED FOR 8" LINEAR EXPANSION
421	6" DUCTILE IRON 45 DEGREE ELBOW, ROTATE AS NEEDED TO ACHIEVE HORIZONTAL CLEARANCE FROM CRASH CUSHION PAD PER 2/C-25.
422	CONNECT TO (E) 8" PVC WATERLINE, PER CITY STD 6210.
423	(E) FIRE HYDRANT TO REMAIN
424	REMOVE (E) 2" WATER METER. VERIFY LOCATION.
425	STUB OUT (N) 6" PVC. (N) 6" END CAP AND THRUST BLOCK
426	(E) ABANDONED 6" CI WATERLINE UNDER BRIDGE. CONFIRM WATERLINE IS NOT ACTIVE AND REMOVE.
427	(N) 6" WATER VALVE AND WELL PER CITY STD. 6340
428	1 INCH COMBINATION AIR VALVE PER 3/C-25 Scale: 1" = 20'
429	CUT AND CAP (E) WATER SERVICE. REMOVE (E) WATER SERVICE LATERAL WITHIN LIMITS OF GRADING. PIPE MATERIAL AND SIZE UNKNOWN.
600	SITEWORK
638	(N) DRIVEWAY RAMP PER CITY STD 2110 (MODIFIED) PER DETAILS 1&2/C-27
700	UTILITIES
701	(E) UTILITY POLE TO REMAIN
702	(E) UTILITY POLE AND GUY TO REMAIN
703	(E) OVERHEAD (OH) UTILITY LINE TO REMAIN
706	(E) OVERHEAD LINE TO BE REMOVED AND RELOCATED BY OTHERS
707	(N) UTILITY POLE BY OTHERS
709	(N) GAS LINE IN BIANCHI LANE AND UNDERNEATH SAN LUIS OBISPO CREEK BY OTHERS.
710	(E) GAS LINE TO BE RELOCATED BY OTHERS
711	(E) UTILITY POLE TO BE REMOVED AND RELOCATED BY OTHERS
712	(N) OVERHEAD UTILITY LINES BY OTHERS
715	(E) GAS VALVE TO REMAIN
716	(E) UNDERGROUND CABLE LINE TO BE REMOVED BY OTHERS
718	(E) UNDERGROUND TELEPHONE LINE TO REMAIN
719	(E) UNDERGROUND CABLE LINE TO REMAIN
720	REMOVE (E) SEPTIC SYSTEM
721	(N) UNDERGROUND TELEPHONE LINE BY OTHERS
722	(N) OVERHEAD CABLE LINE BY OTHERS
723	(E) UNDERGROUND COMMUNICATION LINES TO REMAIN
724	(E) UNDERGROUND TELEPHONE LINE TO BE RELOCATED BY OTHERS
725	CUT AND CAP (E) ELECTRICAL SERVICE. REMOVE (E) CONDUIT WITHIN LIMITS OF GRADING, MATERIAL AND SIZE UNKNOWN

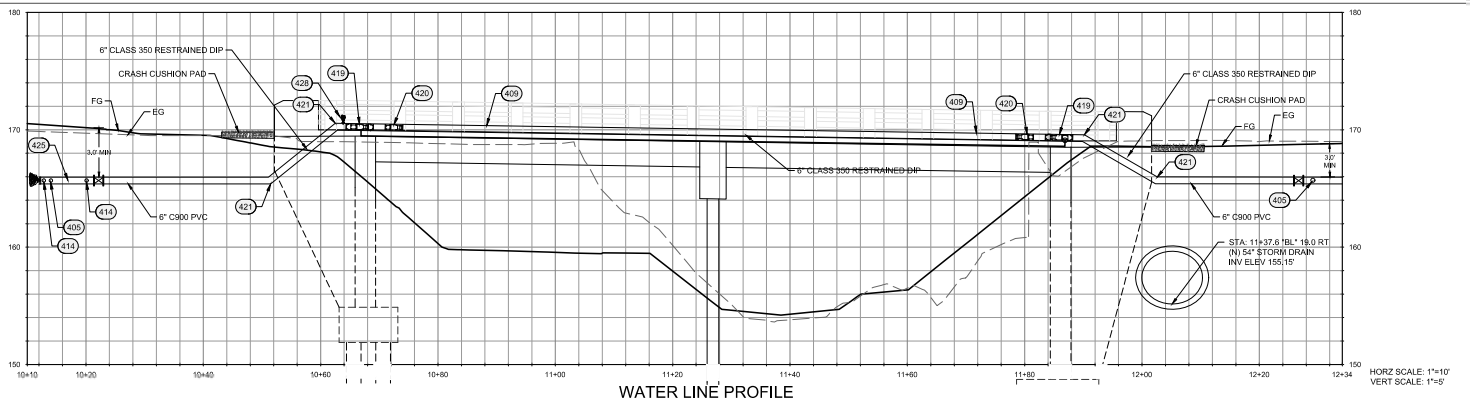
CITY OF SAN LUIS OBISPO

PROJECT TITLE: MID-HIGUERA BYPASS

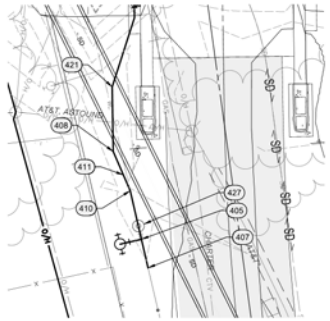
SHEET TITLE: BIANCHI LANE UTILITY PLAN - PROPOSED

REGISTERED PROFESSIONAL ENGINEER VALERIE G. HUFF No. 72426 FOR PLAN REVIEW ONLY NOT FOR CONSTRUCTION CIVIL STATE OF CALIFORNIA

DESIGNED BY: VGH
DRAWN BY: CK
CHECKED BY: CAC
APPROVED BY:
SCALE: 1" = 20'
DATE: 6/11/2024
CITY SPECIFICATION NO. 2090649
PLAN FILE NO. / LOCATION
SHEET NO. C-24 of 65

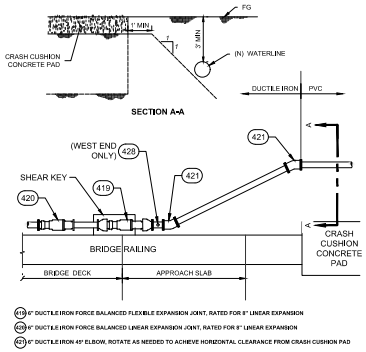


WATER LINE PROFILE



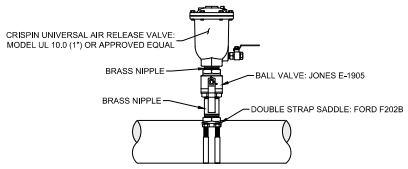
1 CONNECTION TO EXISTING WATERLINE

Scale: 1" = 10'



2 PLAN VIEW OF NEW WATERLINE AT CRASH CUSHION PAD

Scale: N.T.S.



3 COMBINATION AIR VALVE

N.T.S.

REFERENCE NOTES:	
XXX	DESCRIPTION
300	STORM DRAIN
301	(E) 54" RCP STORM DRAIN TO REMAIN
302	(N) 84" STORM DRAIN MANHOLE PER CITY STD, 3510. CONNECT TO (E) 54" RCP STORM DRAIN. VERIFY ELEVATION OF (E) 54" RCP PRIOR TO INSTALLING DOWNSTREAM PIPE.
303	REMOVE (E) STORM DRAIN (54" RCP)
304	(N) 54" RCP STORM DRAIN
305	ROCK SLOPE PROTECTION AT STORM DRAIN OUTLET PER 3/C-30
307	STORM DRAIN HEADWALL AND WINGWALLS PER CALTRANS STD D90 SHEET C-30 AND 1/C-30 2/C-30
308	STORM DRAIN HEADWALL PER CALTRANS STD D90 SHEET C-28. TOP OF WALL ELEV 172.5'.
309	(N) 48" HDPE SD, SLURRY BACKFILL
310	(N) 48"x48"x24" HDPE TEE
311	(N) 24" HDPE RISER AND 24" TRAFFIC RATED GRATE INLET. TOP OF GRATE ELEV 167.9'.
312	(N) 48" RCP SD
313	(N) CONCRETE PIPE COLLAR
314	(N) 48" RCP FLARED END SECTION.
315	REMOVE (E) STORM DRAIN (48" CMP, 52" STEEL)
316	REMOVE (E) STORM DRAIN (24" HDPE, 18" CMP)
317	REMOVE (E) STORM DRAIN HEADWALL (ROCK AND SACK CONCRETE)
400	WATER SYSTEM
401	(E) 6" PVC WL TO REMAIN
402	REMOVE (E) FIRE HYDRANT ASSEMBLY
403	REMOVE (E) 6" PVC WL
404	REMOVE (E) 2" WATER SERVICE LATERAL AND 4" CI CASING UNDER (E) BRIDGE
405	FIRE HYDRANT ASSEMBLY PER CITY STD 6310
406	(E) 2" WATER SERVICE TO REMAIN
407	CONNECT TO (E) 6" PVC WL
408	(N) DUCTILE IRON 22.5 DEGREE ELBOW
409	(N) 6" DIP WL ATTACHED TO BRIDGE - SEE SHEET S-9 FOR PIPE SUPPORT BRACKET
410	(N) DUCTILE IRON 11.25 DEGREE ELBOW
411	(N) 6" PVC WL
412	CONNECT TO (E) 2" WATER SERVICE, PER CITY STD 6220. VERIFY LOCATION.
413	(N) WATERLINE AT CRASH CUSHION CONCRETE PAD PER 2/C-25
414	3/4" (N) WATER SERVICE AND METER PER CITY STD, 6210
415	1" QUICK COUPLER VALVE AND BOX PER CITY STD 8630
416	REMOVE (E) 2" WATER SERVICE. PROVIDE TEMPORARY SERVICE DURING CONSTRUCTION
417	IRRIGATION SERVICE ASSEMBLY PER CITY STD 8560
418	APPROXIMATE LOCATION OF (E) 2" SERVICE LINE, VERIFY LOCATION.
419	6" DUCTILE IRON FORCE BALANCED FLEXIBLE EXPANSION JOINT, RATED FOR 8" LINEAR EXPANSION
420	6" DUCTILE IRON FORCE BALANCED LINEAR EXPANSION JOINT, RATED FOR 8" LINEAR EXPANSION
421	6" DUCTILE IRON 45 DEGREE ELBOW. ROTATE AS NEEDED TO ACHIEVE HORIZONTAL CLEARANCE FROM CRASH CUSHION PAD PER 2/C-25.
422	CONNECT TO (E) 8" PVC WATERLINE, PER CITY STD 6210.
423	(E) FIRE HYDRANT TO REMAIN
424	REMOVE (E) 2" WATER METER. VERIFY LOCATION.
425	STUB OUT (N) 6" PVC, (N) 6" END CAP AND THRUST BLOCK
426	(E) ABANDONED 6" CI WATERLINE UNDER BRIDGE. CONFIRM WATERLINE IS NOT ACTIVE AND REMOVE.
427	(N) 6" WATER VALVE AND WELL PER CITY STD, 6340
428	1 INCH COMBINATION AIR VALVE PER 3/C-25
429	CUT AND CAP (E) WATER SERVICE. REMOVE (E) WATER SERVICE LATERAL WITHIN LIMITS OF GRADING, PIPE MATERIAL AND SIZE UNKNOWN.
600	SITEWORK
638	(N) DRIVEWAY RAMP PER CITY STD 2110 (MODIFIED) PER DETAILS 1&2/C-27
700	UTILITIES
701	(E) UTILITY POLE TO REMAIN
702	(E) UTILITY POLE AND GUY TO REMAIN
703	(E) OVERHEAD (OH) UTILITY LINE TO REMAIN
706	(E) OVERHEAD LINE TO BE REMOVED AND RELOCATED BY OTHERS
707	(N) UTILITY POLE BY OTHERS
709	(N) GAS LINE IN BIANCHI LANE AND UNDERNEATH SAN LUIS OBISPO CREEK BY OTHERS.
710	(E) GAS LINE TO BE RELOCATED BY OTHERS
711	(E) UTILITY POLE TO BE REMOVED AND RELOCATED BY OTHERS
712	(N) OVERHEAD UTILITY LINES BY OTHERS
715	(E) GAS VALVE TO REMAIN
716	(E) UNDERGROUND CABLE LINE TO BE REMOVED BY OTHERS
718	(E) UNDERGROUND TELEPHONE LINE TO REMAIN
719	(E) UNDERGROUND CABLE LINE TO REMAIN
720	REMOVE (E) SEPTIC SYSTEM
721	(N) UNDERGROUND TELEPHONE LINE BY OTHERS
722	(N) OVERHEAD CABLE LINE BY OTHERS
723	(E) UNDERGROUND COMMUNICATION LINES TO REMAIN
724	(E) UNDERGROUND TELEPHONE LINE TO BE RELOCATED BY OTHERS
725	CUT AND CAP (E) ELECTRICAL SERVICE. REMOVE (E) CONDUIT WITHIN LIMITS OF GRADING, MATERIAL AND SIZE UNKNOWN

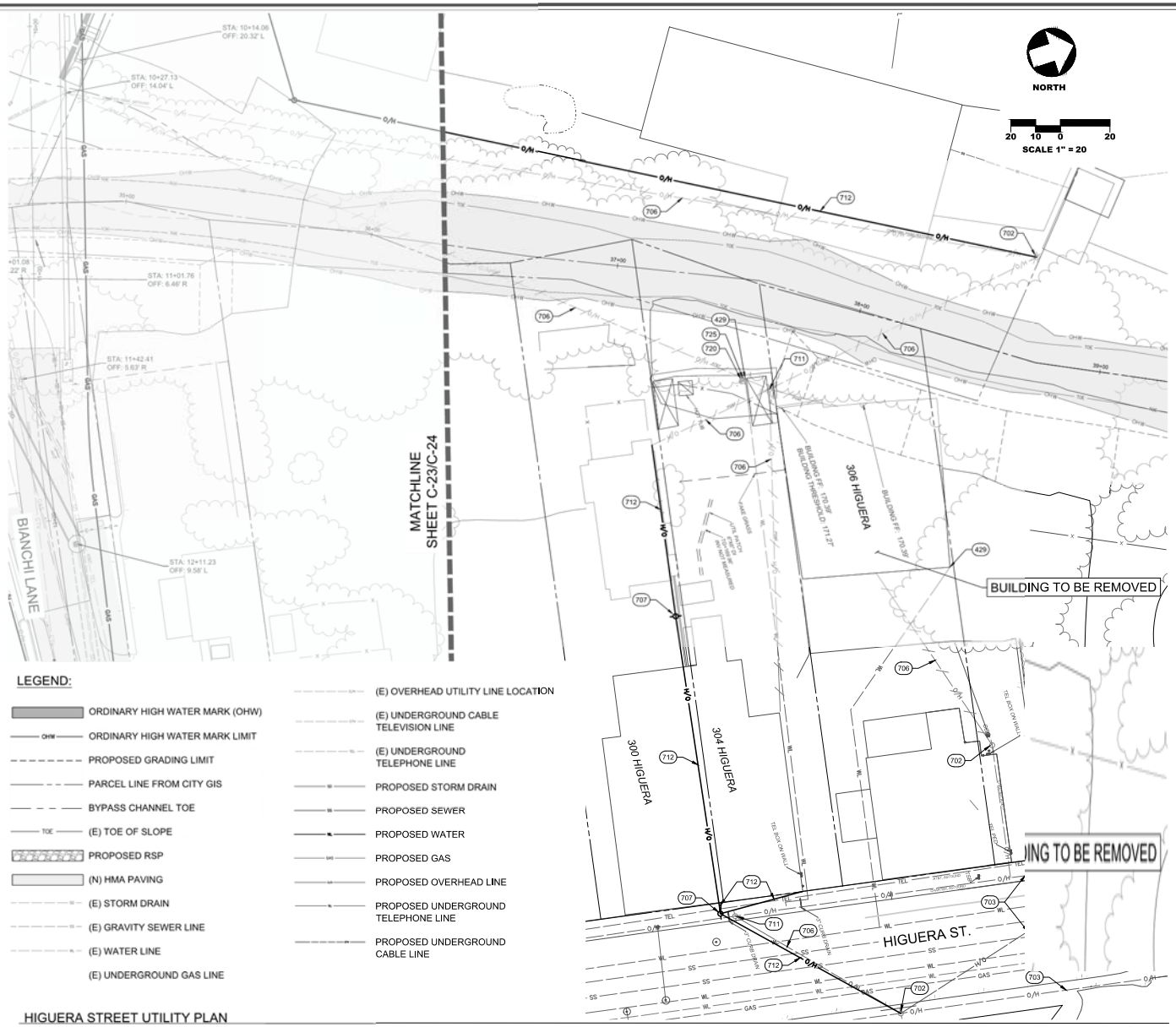
CITY OF SAN LUIS OBISPO

PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: BIANCHI LANE BRIDGE WATERLINE PROFILE

REGISTERED PROFESSIONAL ENGINEER
VALERIE G. HUFF
No. 72426
FOR PLAN REVIEW ONLY
NOT FOR CONSTRUCTION
CIVIL
STATE OF CALIFORNIA

DESIGNED BY: VGH
DRAWN BY: CK
CHECKED BY: CAC
APPROVED BY:
SCALE: AS SHOWN
DATE: 6/11/2024
CITY SPECIFICATION NO. 2090649
PLAN FILE NO. / LOCATION
SHEET NO. C-25 of 65



HIGUERA STREET UTILITY PLAN

Scale: 1" = 20'

REFERENCE NOTES:	
XXX	DESCRIPTION
300	STORM DRAIN
301	(E) 54" RCP STORM DRAIN TO REMAIN
302	(N) 84" STORM DRAIN MANHOLE PER CITY STD. 3510. CONNECT TO (E) 54" RCP STORM DRAIN. VERIFY ELEVATION OF (E) 54" RCP PRIOR TO INSTALLING DOWNSTREAM PIPE.
303	REMOVE (E) STORM DRAIN (54" RCP)
304	(N) 54" RCP STORM DRAIN
305	ROCK SLOPE PROTECTION AT STORM DRAIN OUTLET PER 3/C-30
307	STORM DRAIN HEADWALL AND WINGWALLS PER CALTRANS STD D90 SHEET C-30 AND 1/C-30 2/C-30
308	STORM DRAIN HEADWALL PER CALTRANS STD D90 SHEET C-28. TOP OF WALL ELEV 172.5'.
309	(N) 48" HDPE SD, SLURRY BACKFILL
310	(N) 48"x48"x24" HDPE TEE
311	(N) 24" HDPE RISER AND 24" TRAFFIC RATED GRATE INLET. TOP OF GRATE ELEV 167.9'.
312	(N) 48" RCP SD
313	(N) CONCRETE PIPE COLLAR
314	(N) 48" RCP FLARED END SECTION.
315	REMOVE (E) STORM DRAIN (48" CMP, 52" STEEL)
316	REMOVE (E) STORM DRAIN (24" HDPE, 18" CMP)
317	REMOVE (E) STORM DRAIN HEADWALL (ROCK AND SACK CONCRETE)
400	WATER SYSTEM
401	(E) 6" PVC WL TO REMAIN
402	REMOVE (E) FIRE HYDRANT ASSEMBLY
403	REMOVE (E) 6" PVC WL
404	REMOVE (E) 2" WATER SERVICE LATERAL AND 4" CI CASING UNDER (E) BRIDGE
405	FIRE HYDRANT ASSEMBLY PER CITY STD 6310
406	(E) 2" WATER SERVICE TO REMAIN
407	CONNECT TO (E) 6" PVC WL
408	(N) DUCTILE IRON 22.5 DEGREE ELBOW
409	(N) 6" DIP WL ATTACHED TO BRIDGE - SEE SHEET S-9 FOR PIPE SUPPORT BRACKET
410	(N) DUCTILE IRON 11.25 DEGREE ELBOW
411	(N) 6" PVC WL
412	CONNECT TO (E) 2" WATER SERVICE, PER CITY STD 6220. VERIFY LOCATION.
413	(N) WATERLINE AT CRASH CUSHION CONCRETE PAD PER 2/C-25
414	3/4" (N) WATER SERVICE AND METER PER CITY STD. 6210
415	1" QUICK COUPLER VALVE AND BOX PER CITY STD 8630
416	REMOVE (E) 2" WATER SERVICE. PROVIDE TEMPORARY SERVICE DURING CONSTRUCTION
417	IRRIGATION SERVICE ASSEMBLY PER CITY STD 8560
418	APPROXIMATE LOCATION OF (E) 2" SERVICE LINE. VERIFY LOCATION.
419	6" DUCTILE IRON FORCE BALANCED FLEXIBLE EXPANSION JOINT, RATED FOR 8" LINEAR EXPANSION
420	6" DUCTILE IRON FORCE BALANCED LINEAR EXPANSION JOINT, RATED FOR 8" LINEAR EXPANSION
421	6" DUCTILE IRON 45 DEGREE ELBOW, ROTATE AS NEEDED TO ACHIEVE HORIZONTAL CLEARANCE FROM CRASH CUSHION PAD PER 2/C-25.
422	CONNECT TO (E) 8" PVC WATERLINE, PER CITY STD 6210.
423	(E) FIRE HYDRANT TO REMAIN
424	REMOVE (E) 2" WATER METER. VERIFY LOCATION.
425	STUB OUT (N) 6" PVC, (N) 6" END CAP AND THRUST BLOCK
426	(E) ABANDONED 6" CI WATERLINE UNDER BRIDGE. CONFIRM WATERLINE IS NOT ACTIVE AND REMOVE.
427	(N) 6" WATER VALVE AND WELL PER CITY STD. 6340
428	1 INCH COMBINATION AIR VALVE PER 3/C-25
429	CUT AND CAP (E) WATER SERVICE. REMOVE (E) WATER SERVICE LATERAL WITHIN LIMITS OF GRADING. PIPE MATERIAL AND SIZE UNKNOWN.
600	SITEWORK
638	(N) DRIVEWAY RAMP PER CITY STD 2110 (MODIFIED) PER DETAILS 1&2/C-27
700	UTILITIES
701	(E) UTILITY POLE TO REMAIN
702	(E) UTILITY POLE AND GUY TO REMAIN
703	(E) OVERHEAD (OH) UTILITY LINE TO REMAIN
706	(E) OVERHEAD LINE TO BE REMOVED AND RELOCATED BY OTHERS
707	(N) UTILITY POLE BY OTHERS
709	(N) GAS LINE IN BIANCHI LANE AND UNDERNEATH SAN LUIS OBISPO CREEK BY OTHERS.
710	(E) GAS LINE TO BE RELOCATED BY OTHERS
711	(E) UTILITY POLE TO BE REMOVED AND RELOCATED BY OTHERS
712	(N) OVERHEAD UTILITY LINES BY OTHERS
715	(E) GAS VALVE TO REMAIN
716	(E) UNDERGROUND CABLE LINE TO BE REMOVED BY OTHERS
718	(E) UNDERGROUND TELEPHONE LINE TO REMAIN
719	(E) UNDERGROUND CABLE LINE TO REMAIN
720	REMOVE (E) SEPTIC SYSTEM
721	(N) UNDERGROUND TELEPHONE LINE BY OTHERS
722	(N) OVERHEAD CABLE LINE BY OTHERS
723	(E) UNDERGROUND COMMUNICATION LINES TO REMAIN
724	(E) UNDERGROUND TELEPHONE LINE TO BE RELOCATED BY OTHERS
725	CUT AND CAP (E) ELECTRICAL SERVICE. REMOVE (E) CONDUIT WITHIN LIMITS OF GRADING, MATERIAL AND SIZE UNKNOWN

CITY OF SAN LUIS OBISPO

MID-HIGUERA BYPASS

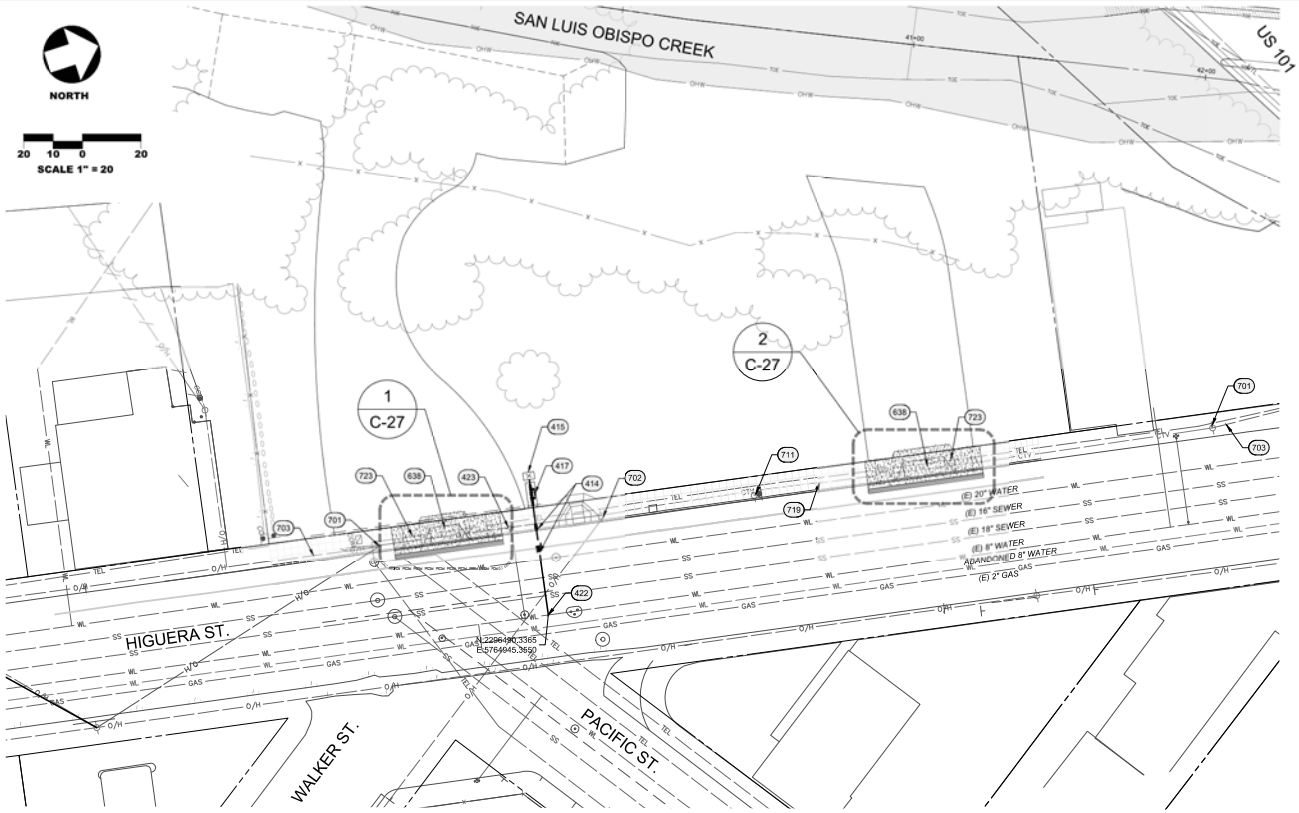
HIGUERA ST UTILITY PLAN

PROJECT TITLE:

SHEET TITLE:

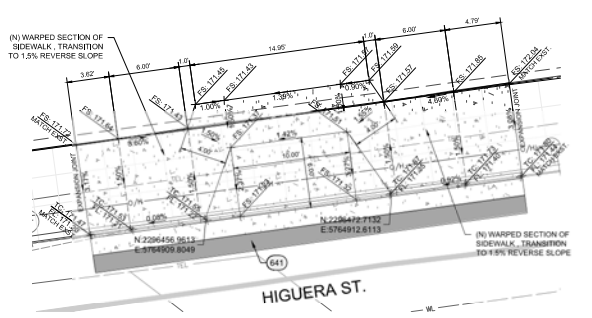
REGISTERED PROFESSIONAL ENGINEER
VALERIE G. HUFF
No. 72426
FOR PLAN REVIEW ONLY
NOT FOR CONSTRUCTION
CIVIL
STATE OF CALIFORNIA

DESIGNED BY: VGH
DRAWN BY: CPK
CHECKED BY: CAC
APPROVED BY:
SCALE: AS SHOWN
DATE: 6/11/2024
CITY SPECIFICATION NO. 2090649
PLAN FILE NO. / LOCATION
SHEET NO. C-26 of 65



HIGUERA STREET UTILITY PLAN

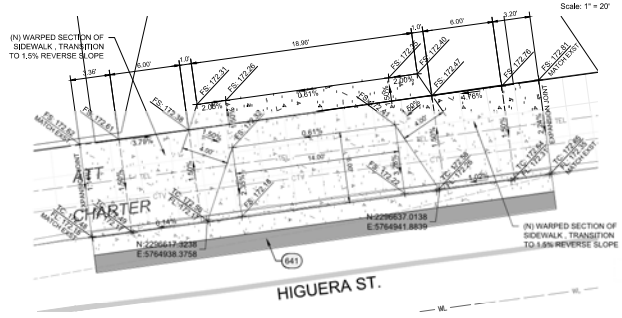
REFERENCE NOTES:	
XXX	DESCRIPTION
400	WATER SYSTEM
401	(E) 6" PVC WL TO REMAIN
402	REMOVE (E) FIRE HYDRANT ASSEMBLY
403	REMOVE (E) 6" PVC WL
404	REMOVE (E) 2" WATER SERVICE LATERAL AND 4" CI CASING UNDER (E) BRIDGE
405	FIRE HYDRANT ASSEMBLY PER CITY STD 6310
406	(E) 2" WATER SERVICE TO REMAIN
407	CONNECT TO (E) 6" PVC WL
408	(N) DUCTILE IRON 22.5 DEGREE ELBOW
409	(N) 6" DIP WL ATTACHED TO BRIDGE - SEE SHEET S-9 FOR PIPE SUPPORT BRACKET
410	(N) DUCTILE IRON 11.25 DEGREE ELBOW
411	(N) 6" PVC WL
412	CONNECT TO (E) 2" WATER SERVICE, PER CITY STD 6220. VERIFY LOCATION.
413	(N) WATERLINE AT CRASH CUSHION CONCRETE PAD PER 2/C-25
414	3/4" (N) WATER SERVICE AND METER PER CITY STD. 6210
415	1" QUICK COUPLER VALVE AND BOX PER CITY STD 8630
416	REMOVE (E) 2" WATER SERVICE, PROVIDE TEMPORARY SERVICE DURING CONSTRUCTION
417	IRRIGATION SERVICE ASSEMBLY PER CITY STD 8560
418	APPROXIMATE LOCATION OF (E) 2" SERVICE LINE. VERIFY LOCATION.
419	6" DUCTILE IRON FORCE BALANCED FLEXIBLE EXPANSION JOINT, RATED FOR 8" LINEAR EXPANSION
420	6" DUCTILE IRON FORCE BALANCED LINEAR EXPANSION JOINT, RATED FOR 8" LINEAR EXPANSION
421	6" DUCTILE IRON 45 DEGREE ELBOW, ROTATE AS NEEDED TO ACHIEVE HORIZONTAL CLEARANCE FROM CRASH CUSHION PAD PER 2/C-25.
422	CONNECT TO (E) 8" PVC WATERLINE, PER CITY STD 6210.
423	(E) FIRE HYDRANT TO REMAIN
424	REMOVE (E) 2" WATER METER. VERIFY LOCATION.
425	STUB OUT (N) 6" PVC, (N) 6" END CAP AND THRUST BLOCK
426	(E) ABANDONED 6" CI WATERLINE UNDER BRIDGE. CONFIRM WATERLINE IS NOT ACTIVE AND REMOVE.
427	(N) 6" WATER VALVE AND WELL PER CITY STD. 6340
428	1 INCH COMBINATION AIR VALVE PER 3/C-25
600	SITEWORK
638	(N) DRIVEWAY RAMP PER CITY STD 2110 (MODIFIED) PER DETAILS 1&2/C-27
641	PAVEMENT REMOVAL AND REPAIR PER CITY STD 4110
700	UTILITIES
701	(E) UTILITY POLE TO REMAIN
702	(E) UTILITY POLE AND GUY TO REMAIN
703	(E) OVERHEAD (OH) UTILITY LINE TO REMAIN
706	(E) OVERHEAD LINE TO BE REMOVED AND RELOCATED BY OTHERS
707	(N) UTILITY POLE BY OTHERS
709	(N) GAS LINE IN BIANCHI LANE AND UNDERNEATH SAN LUIS OBISPO CREEK BY OTHERS.
710	(E) GAS LINE TO BE RELOCATED BY OTHERS
711	(E) UTILITY POLE TO BE REMOVED AND RELOCATED BY OTHERS
712	(N) OVERHEAD UTILITY LINES BY OTHERS
714	OVERHEAD CABLE LINE TO BE TEMPORARILY RELOCATED BY OTHERS FOR INSTALLATION AND REMOVAL OF THE TEMPORARY BRIDGE.
719	(E) UNDERGROUND CABLE LINE TO REMAIN
723	(E) UNDERGROUND COMMUNICATION LINES TO REMAIN



1 C-27 HIGUERA SOUTH DRIVEWAY DETAIL

NOTE: HIGUERA STREET AT (N) DRIVEWAY IS 2" ASPHALT CONCRETE OVER PORTLAND CEMENT CONCRETE

Scale: 1" = 5'



2 C-27 HIGUERA NORTH DRIVEWAY DETAIL

NOTE: HIGUERA STREET AT (N) DRIVEWAY IS 2" ASPHALT CONCRETE OVER PORTLAND CEMENT CONCRETE

Scale: 1" = 5'

LEGEND

● 100	(E) TREE AND TAG NUMBER
⊠	REMOVE (E) TREE
● NT	(E) TREE WITHOUT TAG
○	(E) TREE. SEE NOTE PER EXISTING TREE PLAN
	TEMPORARY HIGH VISIBILITY FENCE
	PROPOSED SURFACE GRADING LIMIT
	BYPASS CHANNEL TOE
TOE	(E) TOE OF SLOPE
	ORDINARY HIGH WATER (OHW)
OHW	ORDINARY HIGH WATER MARK LIMIT
	PROPOSED RSP
	PARCEL LINE FROM CITY GIS

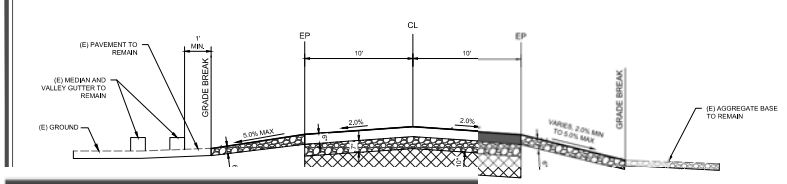
CITY OF SAN LUIS OBISPO

PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: MATTHEWS ROADWAY AND UTILITY PLAN

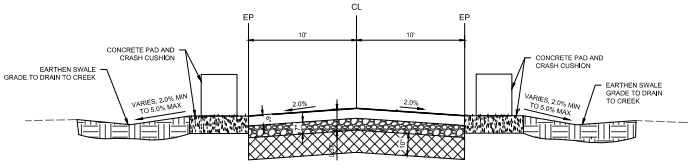
REGISTERED PROFESSIONAL ENGINEER VALERIE G. HUFF No. 72426 FOR PLAN REVIEW ONLY NOT FOR CONSTRUCTION CIVIL STATE OF CALIFORNIA

DESIGNED BY:	VGH
DRAWN BY:	CK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	AS SHOWN
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	
SHEET NO.	C-27 of 65



1+44 TO 12+03

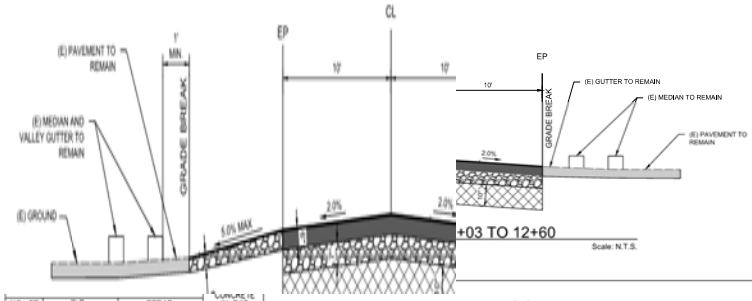
Scale: N.T.S.



2 TYPICA

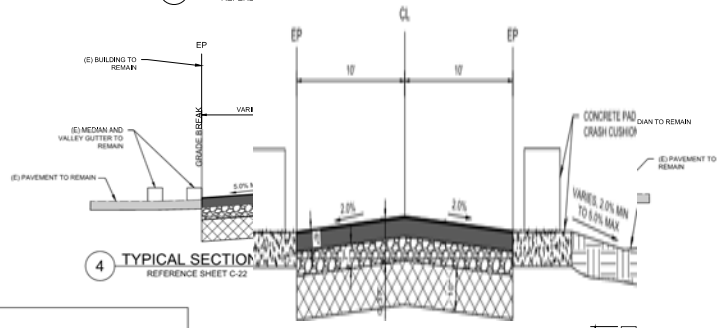
STA 9+7

REFERE



+03 TO 12+60

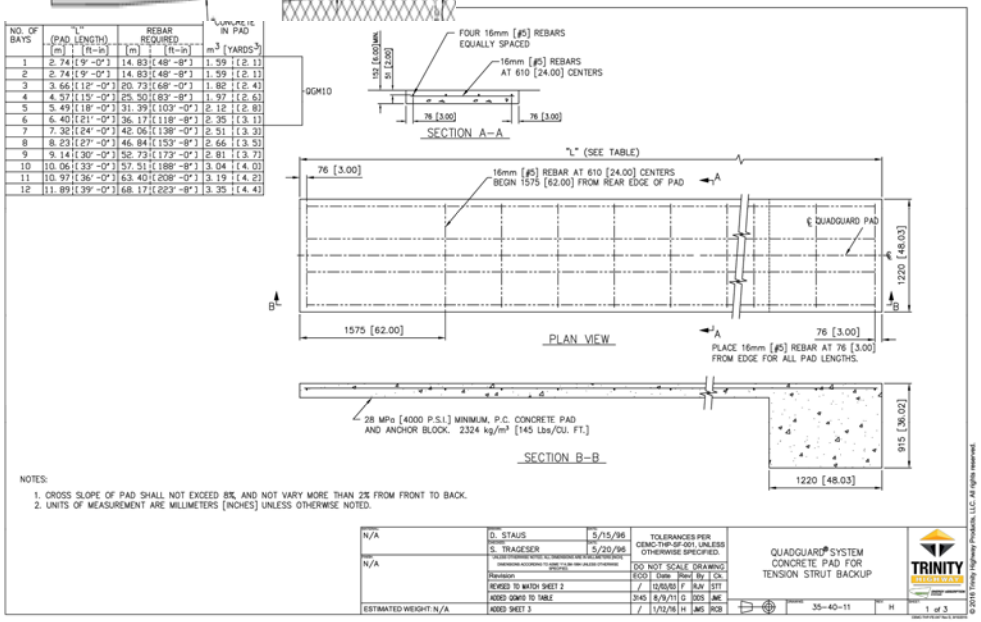
Scale: N.T.S.



4 TYPICAL SECTION

REFERENCE SHEET C-22

NO. OF BAYS	"L" (PAD LENGTH) [m]	[ft-in]	REBAR REQUIRED [m]	[ft-in]	CONCRETE IN PAD m³ [YARDS³]
1	2.74	[9'-0"]	14.83	[48'-8"]	1.59 [2.1]
2	2.74	[9'-0"]	14.83	[48'-8"]	1.59 [2.1]
3	3.66	[12'-0"]	20.73	[68'-0"]	1.82 [2.4]
4	4.57	[15'-0"]	25.50	[83'-8"]	1.97 [2.6]
5	5.49	[18'-0"]	31.39	[103'-0"]	2.12 [2.8]
6	6.40	[21'-0"]	36.17	[118'-8"]	2.35 [3.1]
7	7.32	[24'-0"]	42.06	[138'-0"]	2.51 [3.3]
8	8.23	[27'-0"]	46.84	[153'-8"]	2.66 [3.5]
9	9.14	[30'-0"]	52.73	[173'-0"]	2.81 [3.7]
10	10.06	[33'-0"]	57.51	[188'-8"]	3.04 [4.0]
11	10.97	[36'-0"]	63.40	[208'-0"]	3.19 [4.2]
12	11.89	[39'-0"]	68.17	[223'-8"]	3.35 [4.4]



NOTES:

1. CROSS SLOPE OF PAD SHALL NOT EXCEED 8%, AND NOT VARY MORE THAN 2% FROM FRONT TO BACK.
2. UNITS OF MEASUREMENT ARE MILLIMETERS [INCHES] UNLESS OTHERWISE NOTED.

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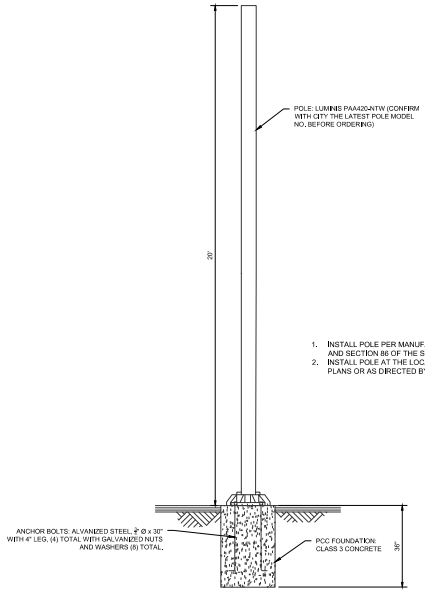
N/A	D. STAUS	5/15/96	TOLERANCES PER CEMC-THP-SF-001, UNLESS OTHERWISE SPECIFIED.	QUADGUARD® SYSTEM CONCRETE PAD FOR TENSION STRUT BACKUP
N/A	S. TRAGESER	5/20/96	DO NOT SCALE DRAWING	
ESTIMATED WEIGHT: N/A			35-40-11	1 of 3

Revision	ECO	Date	Revi. By	Ck.
REVISED TO MATCH SHEET 2	/	12/03/03	F. RJV	STT
ADDED GGM10 TO TABLE	3145	8/9/11	G. DDS	JMC
ADDED SHEET 3	/	1/12/16	H. JMG	RCB

5 CRASH CUSHION CONCRETE PAD

Scale: N.T.S.



1. INSTALL POLE PER MANUFACTURER'S DIRECTIONS AND SECTION 86 OF THE STANDARD SPECIFICATIONS
2. INSTALL POLE AT THE LOCATION INDICATED BE THE PLANS OR AS DIRECTED BY ENGINEER

6 (N) POLE, FOR POLE MOUNTED CAMERA BY OTHERS

REFERENCE SHEET C-22

Scale: N.T.S.

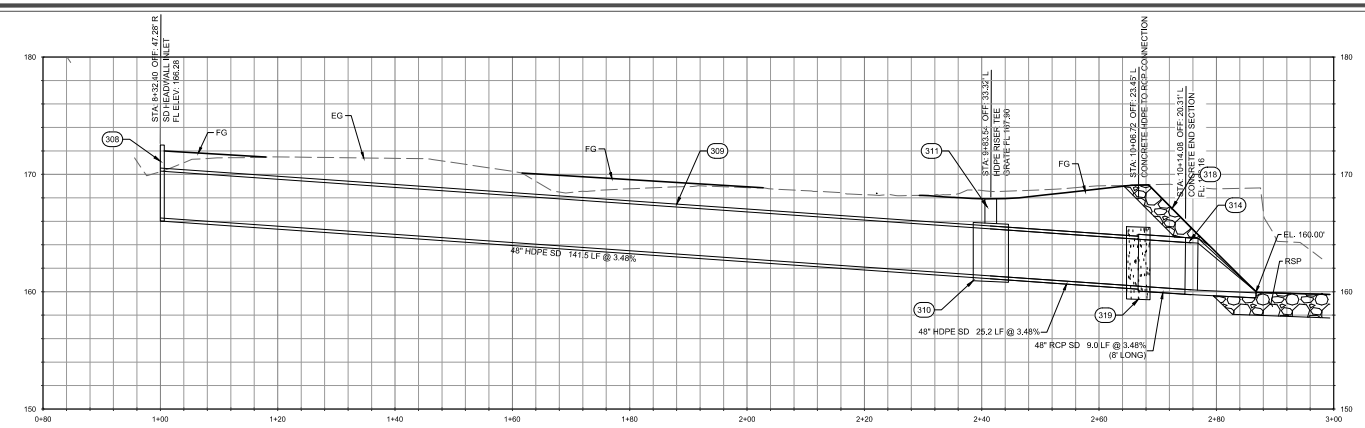
CITY OF SAN LUIS OBISPO

PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: ROADWAY AND UTILITY DETAILS

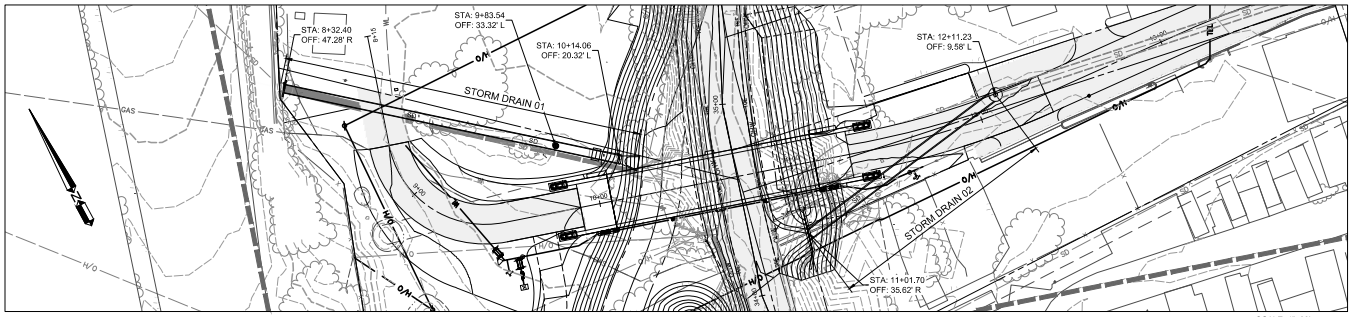
REGISTERED PROFESSIONAL ENGINEER VALERIE G. HUFF No. 72426 FOR PLAN REVIEW ONLY NOT FOR CONSTRUCTION CIVIL STATE OF CALIFORNIA

DESIGNED BY:	VGH
DRAWN BY:	CK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	AS SHOWN
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	
SHEET NO.	C-28 of 65

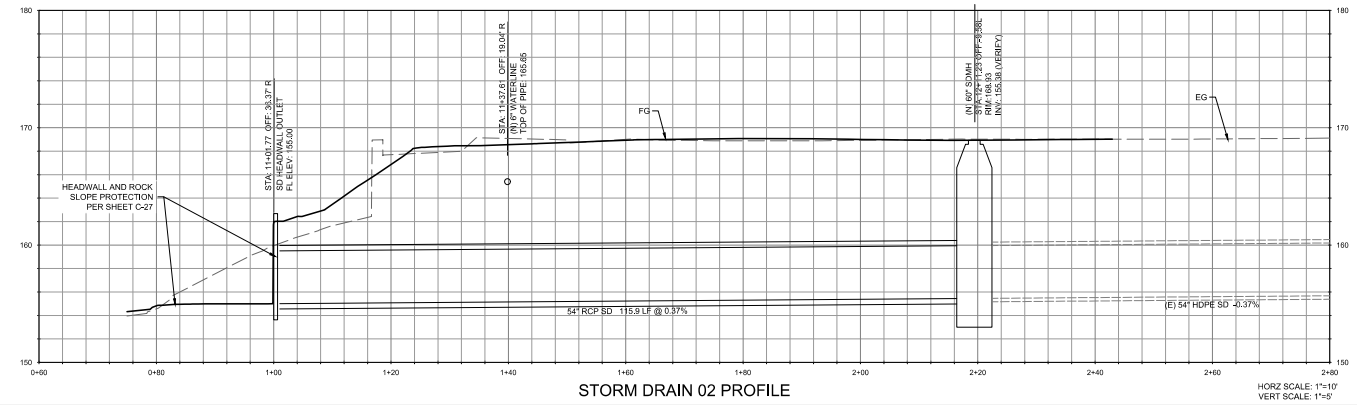


STORM DRAIN 01 PROFILE

HORZ SCALE: 1"=10'
VERT SCALE: 1"=5'



STORM DRAIN 01 & 02 PLAN VIEW



STORM DRAIN 02 PROFILE

HORZ SCALE: 1"=10'
VERT SCALE: 1"=5'

REFERENCE NOTES:	
XXX	DESCRIPTION
300	STORM DRAIN
301	(E) 54" RCP STORM DRAIN TO REMAIN
302	(N) 84" STORM DRAIN MANHOLE PER CITY STD. 3510. CONNECT TO (E) 54" RCP STORM DRAIN. VERIFY ELEVATION OF (E) 54" RCP PRIOR TO INSTALLING DOWNSTREAM PIPE.
303	REMOVE (E) STORM DRAIN (54" RCP)
304	(N) 54" RCP STORM DRAIN
305	ROCK SLOPE PROTECTION AT STORM DRAIN OUTLET PER 3/C-30
307	STORM DRAIN HEADWALL AND WINGWALLS PER CALTRANS STD D90 SHEET C-30 AND 1/C-30 2/C-30
308	STORM DRAIN HEADWALL PER CALTRANS STD D90 SHEET C-28. TOP OF WALL ELEV 172.5'.
309	(N) 48" HDPE STORM DRAIN, SLURRY BACKFILL
310	(N) 48"x48"x24" HDPE TEE
311	(N) 24" HDPE RISER AND 24" TRAFFIC RATED GRATE INLET. TOP OF GRATE ELEV 167.9'.
312	(N) 48" RCP STORM DRAIN
313	(N) CONCRETE PIPE COLLAR
314	(N) 48" RCP FLARED END SECTION.
318	ROCK SLOPE PROTECTION AT FLARED END SECTION PER 2/C-31
319	CONCRETE COLLAR PER 1/C-31

CITY OF SIMI VALLEY

PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: BIANCHI LANE STORM DRAIN PROFILES

REGISTERED PROFESSIONAL ENGINEER
VALERIE G. HUFF
No. 72426
FOR PLAN REVIEW ONLY
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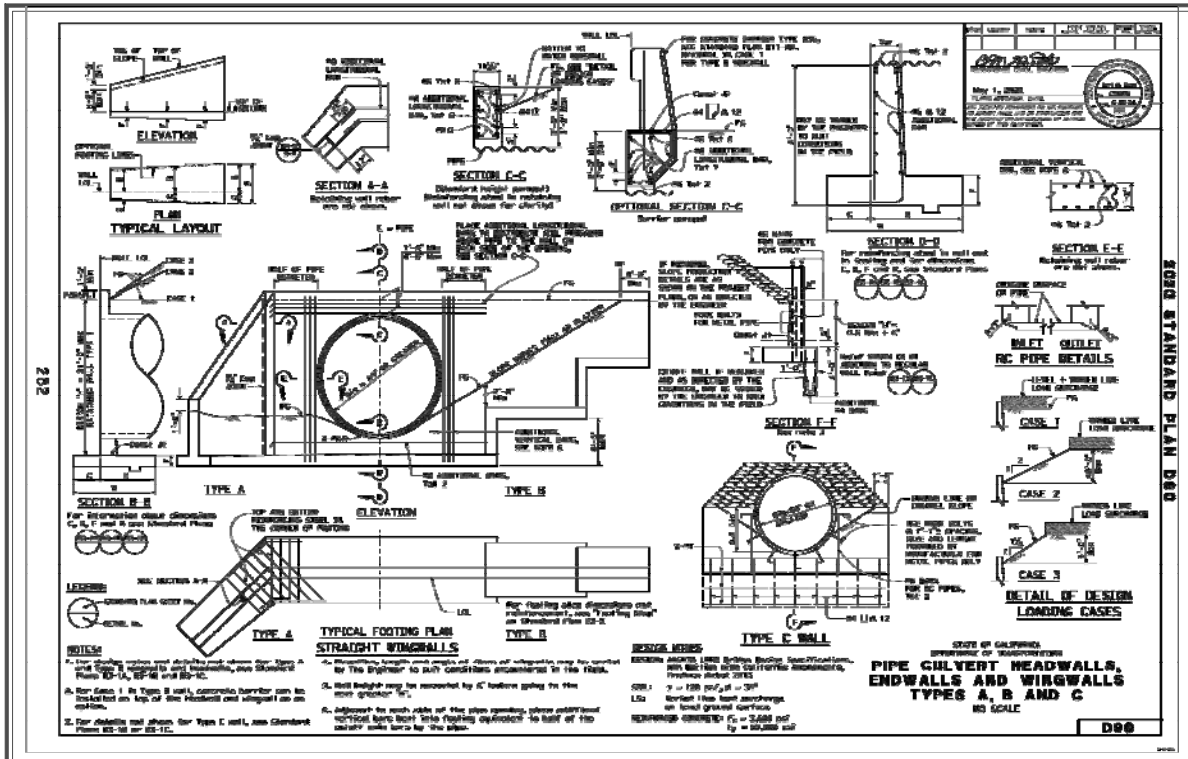
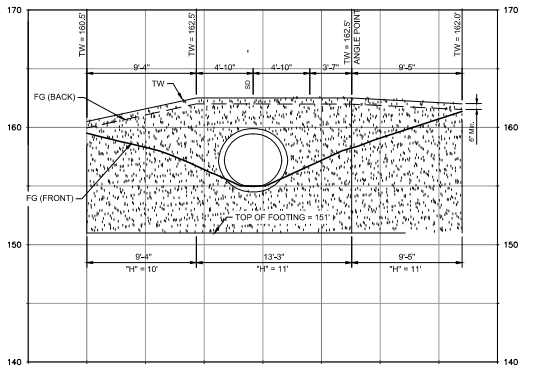
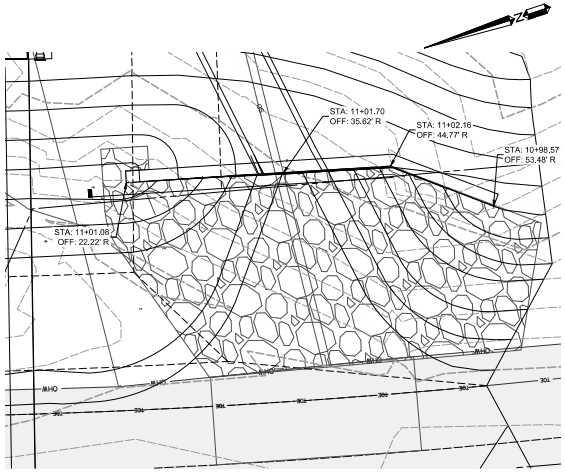
STATE OF CALIFORNIA

DESIGNED BY:	VGH
DRAWN BY:	CPK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	AS SHOWN
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	
SHEET NO.	C-29 of 65

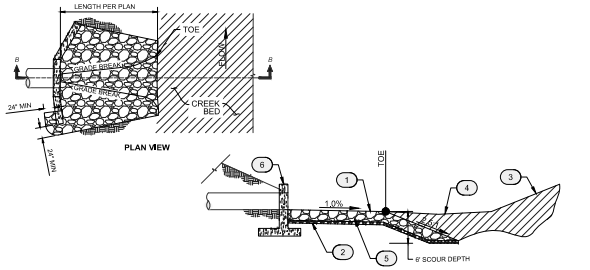




1 SECTION A - STORM DRAIN HEADWALL
Scale: 1:5



2 STORM DRAIN HEADWALL PLAN VIEW
NOTE: OVERHEAD UTILITIES NOT SHOWN, REFER TO SHEET C-24.
Scale: 1:5



1. CLASS IV VEGETATED RSP 2.5' THICK
2. GRAVEL FILTER 0.67' THICK
3. SAN LUIS CREEK BED
4. NATIVE CREEK BED BACKFILL
5. FILL RSP VOIDS WITH NATIVE SOIL
6. STORM DRAIN HEADWALL AND WINGWALLS PER CALTRANS STD D90 SHEET C-28 AND 1/C-28 2/C-28.

NOTE: RSP THICKNESS IS MEASURED PERPENDICULAR TO SLOPE

3 ROCK SLOPE PROTECTION AT STORM DRAIN OUTLET
Scale: N.T.S.

CITY OF SAN LUIS OBISPO

MID-HIGUERA BYPASS

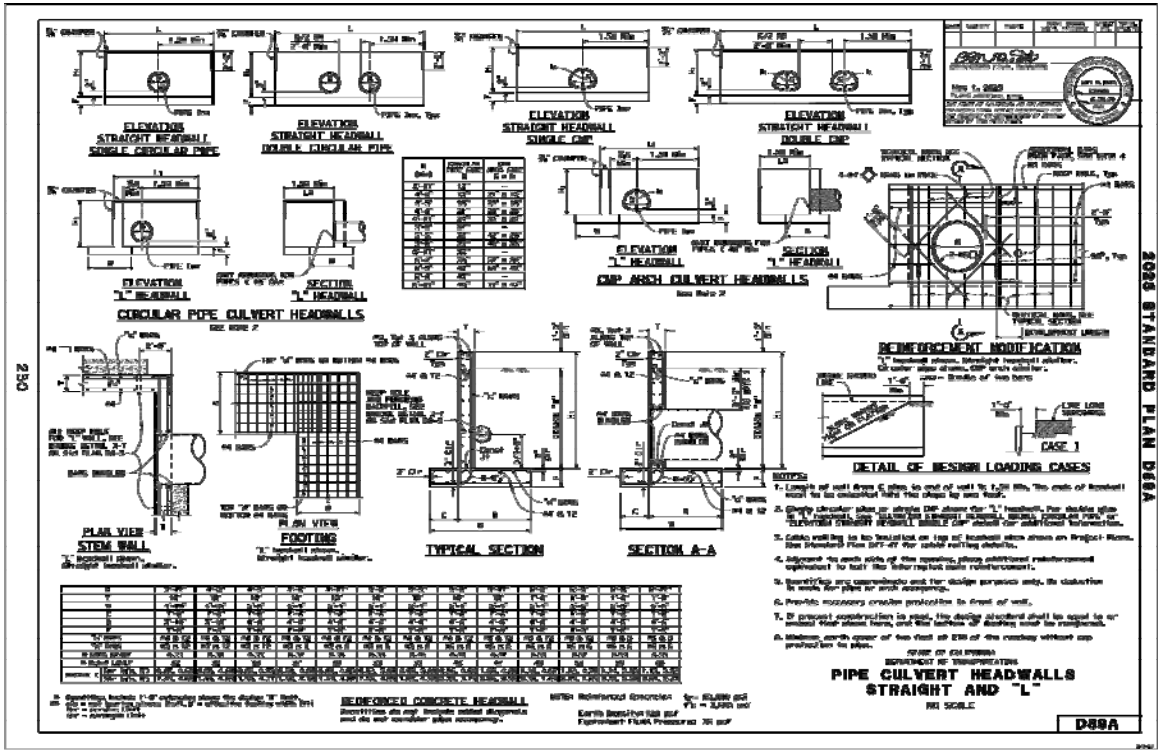
ROADWAY AND UTILITY DETAILS

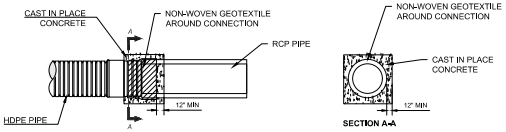
PROJECT TITLE:

SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER
VALERIE G. HUFF
No. 72426
FOR PLAN REVIEW ONLY
NOT FOR CONSTRUCTION
CIVIL
STATE OF CALIFORNIA

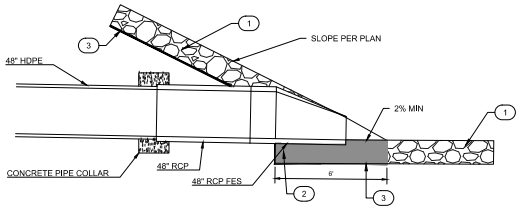
DESIGNED BY:	VGH
DRAWN BY:	CK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	AS SHOWN
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	
SHEET NO.	C-30 of 65





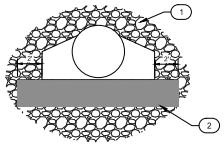
1 CONCRETE COLLAR AT HDPE TO RCP CONNECTION

Scale: N.T.S.



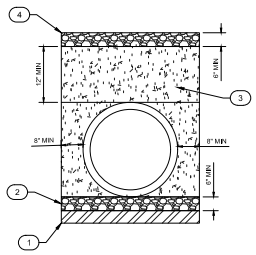
1. CLASS III VEGETATED RSP 2.0' THICK. FILL RSP VOIDS WITH NATIVE SOIL.
2. CLASS III RSP 2.0' THICK, GROUTED.
3. RSP FABRIC.

NOTE: RSP THICKNESS IS MEASURED PERPENDICULAR TO SLOPE.



2 RSP AT FLARED END SECTION OUTLET

Scale: N.T.S.



1. SUBGRADE
2. BEDDING: CLASS 2 AGGREGATE BASE
3. INITIAL BACKFILL: SLURRY CEMENT
4. SUBSEQUENT BACKFILL: CLASS 2 AGGREGATE BASE. BACKFILL WITHIN BIANCHI LANE SHALL BE 4" HMA TO LIMITS SHOWN ON THE DRAWINGS.

3 TYPICAL SECTION, 48" HDPE AND 48" RCP

Scale: N.T.S.

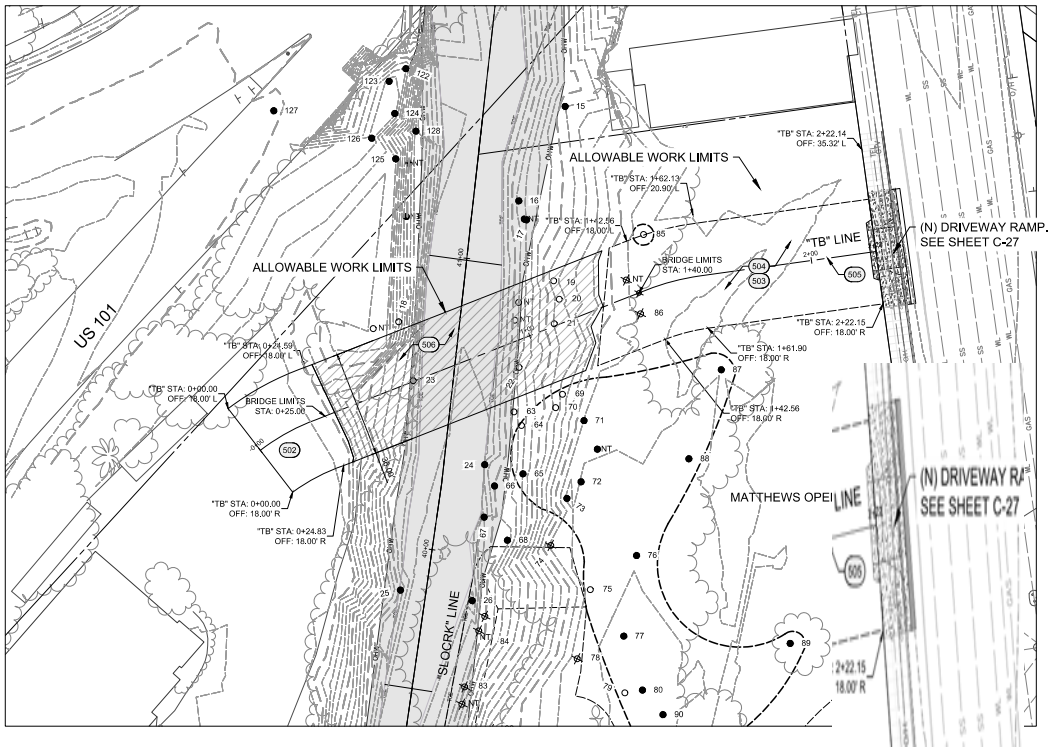
CITY OF SAN LUIS OBISPO

PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: ROADWAY AND UTILITY DETAILS

REGISTERED PROFESSIONAL ENGINEER VALERIE G. HUFF No. 72426 FOR PLAN REVIEW ONLY NOT FOR CONSTRUCTION CIVIL STATE OF CALIFORNIA

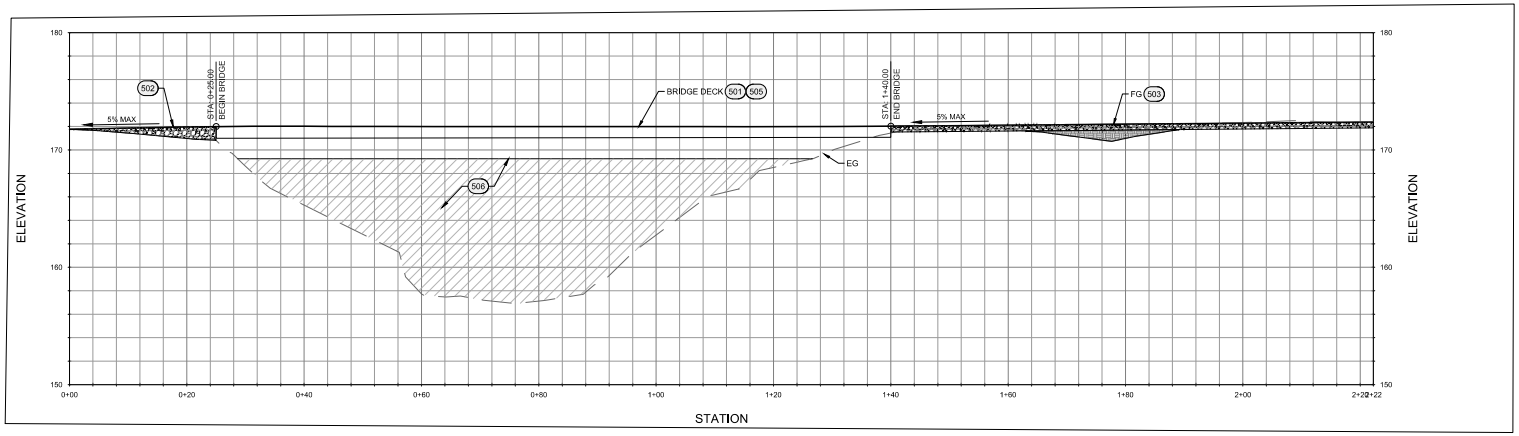
DESIGNED BY:	VGH
DRAWN BY:	CPK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	AS SHOWN
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	
SHEET NO.	C-31 of 65

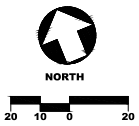


REFERENCE NOTES:	
XXX	DESCRIPTION
500	TEMPORARY BRIDGE
501	TEMPORARY BRIDGE FOR PRIVATE PROPERTY OWNER ACCESS ONLY
502	CLASS 2 AGGREGATE BASE APPROACH RAMP. REMOVE AFTER THE BRIDGE HAS BEEN REMOVED AND RESTORE SITE TO PRECONSTRUCTION CONDITIONS, OR PER GRADING PLANS IN THE GRADING AREAS.
503	TEMPORARY GRADING FOR APPROACH RAMPS. REMOVE AND RESTORE SITE TO PRE-CONSTRUCTION CONDITIONS, OR PER GRADING PLANS IN GRADING AREAS. CUT SLOPES NOT TO EXCEED 2:1
504	20' WIDE, 6-INCH THICK LAYER OF CLASS 2 AGGREGATE BASE. PREPARE AND COMPACT THE SUBGRADE. REMOVE AFTER THE BRIDGE HAS BEEN REMOVED AND RESTORE SITE TO PRECONSTRUCTION CONDITIONS, OR PER GRADING PLANS IN THE GRADING AREAS.
505	BRIDGE ALIGNMENT AND PROFILE SHOWN FOR PLANNING AND BIDDING PURPOSES ONLY. BRIDGE ALIGNMENT AND PROFILE MAY BE ADJUSTED FOR FINAL BRIDGE DESIGN WITHIN THE ALLOWABLE WORK LIMITS AND ELEVATION LIMITATIONS SHOWN. SEE SPECIAL PROVISIONS SECTION 46-7
506	NO STRUCTURAL ELEMENTS OF BRIDGE TO BE LOCATED WITHIN THE CREEK BANKS BELOW ELEVATION 169.25 FEET.

LEGEND

- 100 — (E) TREE AND TAG NUMBER
- NT — (E) TREE WITHOUT TAG
- ⊗ 100 — REMOVE (E) TREE
- ○ 100 — (E) TREE, SEE NOTE PER EXISTING TREE PLAN
- TEMPORARY HIGH VISIBILITY FENCE
- PROPOSED SURFACE GRADING LIMIT
- BYPASS CHANNEL TOE
- TOE — (E) TOE OF SLOPE
- 150 — FINISHED GRADE CONTOUR
- 150 — (E) GRADE CONTOUR
- OHW — ORDINARY HIGH WATER MARK LIMIT
- ORDINARY HIGH WATER (OHW)
- PROPOSED RSP
- (E) CONCRETE SACK WALL
- CREEK DEWATERING LIMITS
- PARCEL LINE FROM CITY GIS





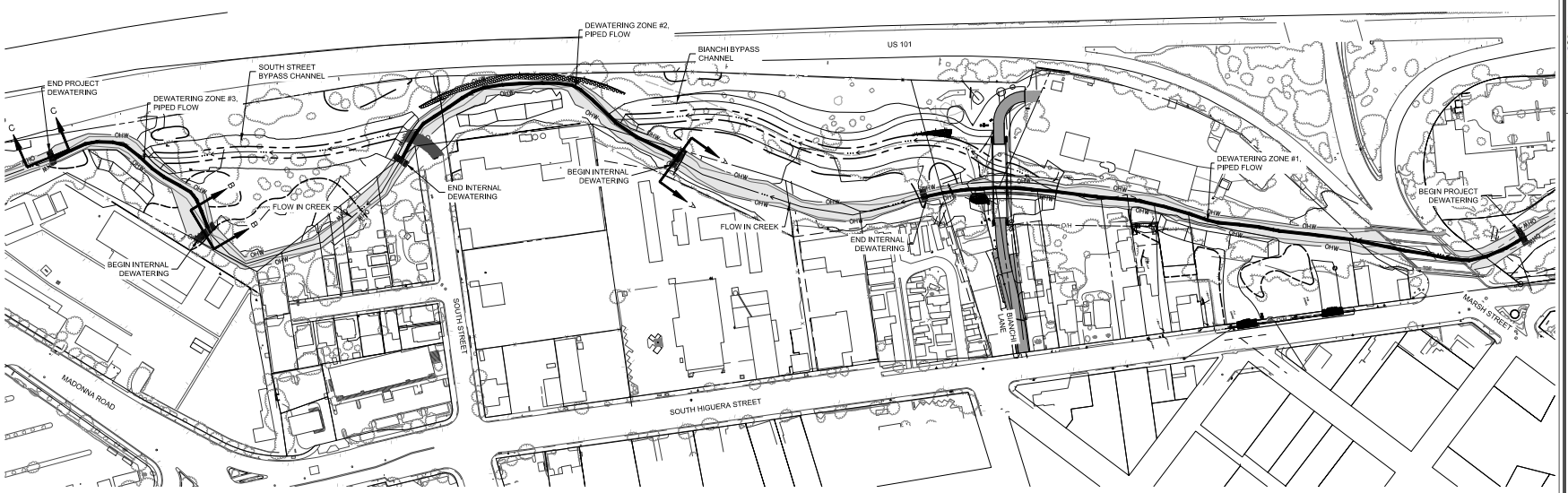
CITY OF SAN LUIS OBISPO

PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: MATTHEWS OPEN SPACE TEMPORARY BRIDGE

REGISTERED PROFESSIONAL ENGINEER
VALERIE G. HUFF
No. 72426
FOR PLAN REVIEW ONLY
NOT FOR CONSTRUCTION
CIVIL
STATE OF CALIFORNIA

DESIGNED BY:	VGH
DRAWN BY:	CK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	1" = 20'
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	0001-0001 GRAD.dwg
SHEET NO.	C-32 of 65



DIVERSION AND DEWATERING GENERAL NOTES

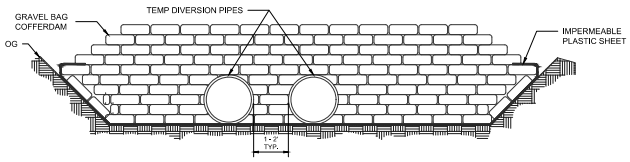
1. SEE SPECIAL PROVISIONS SECTION 13-12 FOR DIVERSION SYSTEM REQUIREMENTS.
2. INSTALLATION AND REMOVAL OF THE DIVERSION SYSTEM REQUIRES OBSERVATION AND MONITORING BY THE CITY BIOLOGIST. COORDINATE WITH THE BIOLOGIST REGARDING THE NECESSARY SCHEDULES AND DO NOT PROCEED WITH THE WORK UNTIL CLEARANCE IS RECEIVED FROM THE BIOLOGIST.
3. PROVIDE DETAILED DIVERSION PLAN AND SCHEDULE, INCLUDING, BUT NOT LIMITED TO, THE STEPS OUTLINED BELOW PLUS PROCEDURES FOR MOVING THE DIVERSION PIPES IN AND OUT OF THE CREEK, TO BE APPROVED BY THE ENGINEER PRIOR TO UNDERTAKING DIVERSION AND DEWATERING OPERATIONS.
4. REFER TO CALTRANS CLEAN WATER DIVERSION NS-5 AND DEWATERING OPERATIONS NS-2 FOR DIVERSION AND DEWATERING PROCEDURES. PUMPED DIVERSION IS NOT AN OPTION.
5. WORK IN THE CREEK SHALL TAKE PLACE IN THE DEWATERED AREAS ONLY.
6. RESTORE THE CREEK FLOWLINE TO PRE-CONSTRUCTION ALIGNMENT, GRADE, AND CROSS SECTION OR TO PROPOSED ALIGNMENT, GRADE, AND CROSS SECTION AS SHOWN ON THE PLANS WHEN WORK IN THE CREEK IS COMPLETE.
7. AT CONTRACTOR'S OPTION, CRUSHED ROCK IN CONFORMANCE WITH THE SPECIAL PROVISIONS CAN BE USED IN LIEU OF GRAVEL BAGS.

DIVERSION INSTALLATION NOTES

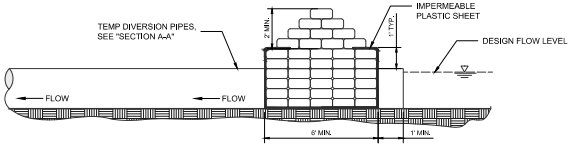
1. CONSTRUCT THE PROJECT DURING LOW FLOWS OR AS DIRECTED BY ENVIRONMENTAL PERMITS. ISOLATE THE WORK AREA FROM THE CREEK BY INSTALLING A TEMPORARY DIVERSION SYSTEM. MAINTAIN THE DIVERSION SYSTEM IN PLACE UNTIL CONSTRUCTION OPERATIONS ARE COMPLETE.
2. FOR WORK AREAS WHERE THE DIVERSION PIPING WILL NEED TO BE RELOCATED DURING THE COURSE OF WORK, THE DIVERSION SYSTEM SHALL UTILIZE EITHER 2-PARALLEL PIPES WITH DIVERSION STRUCTURE, OR ONE PIPE WITH RELOCATION PLAN.
3. DO NOT INTERRUPT FLOW THROUGH THE DIVERSION SYSTEM EXCEPT FOR ALLOWANCE OF DIVERTING TO AN ALTERNATIVE PIPE, IF NECESSARY.
4. THE PROJECT BIOLOGIST WILL RELOCATE FISH FROM THE ISOLATED WORK AREA PER ENVIRONMENTAL AGENCY PERMIT REQUIREMENTS.
5. AFTER THE DIVERSION SYSTEM IS IN PLACE, REMAINING WATER IN THE WORK AREA MAY BE PUMPED OUT. SCREEN THE SUCTION HOSE TO PREVENT FISH FROM BEING TAKEN INTO THE SUCTION HOSE. DO NOT ALLOW DISCHARGE TO RE-ENTER THE CREEK UNTIL SUSPENDED SOLIDS HAVE SETTLED.
6. THE CREEK BED AND FLOWLINE PROFILE MAY FLUCTUATE DURING CONSTRUCTION. MAINTAIN ADEQUATE FALL IN THE PIPE AT ALL TIMES TO CONVEY FLOW THROUGH THE DIVERSION SYSTEM.

DIVERSION REMOVAL NOTES

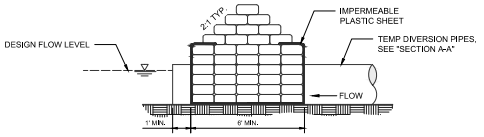
1. ALL CONSTRUCTION ITEMS EXCEPT DIVERSION SYSTEM REMOVAL AND CONSTRUCTION ACCESS REMOVAL SHALL BE COMPLETE PRIOR TO REMOVING DIVERSION SYSTEM.
2. REMOVE THE DIVERSION SYSTEM IN PHASES TO SLOWLY SATURATE THE LOW FLOW CHANNEL. REMOVAL MAY REQUIRE A MULTI-DAY PERIOD UNTIL THE FLOW IS ENTIRELY IN THE LOW FLOW CHANNEL.
3. PREVENT CONCENTRATED OVERFLOW FROM SCOURING THE CHANNEL AND/OR BANKS DOWNSTREAM.



SECTION A-A
TYPICAL COFFER DAM



SECTION B-B
DIVERSION PIPE INLET



SECTION C-C
DIVERSION PIPE OUTLET

1 CREEK DIVERSION DETAILS

NTS

MID-HIGUERA BYPASS

DEWATERING PLANS

PROJECT TITLE:

SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER
VALERIE C. HUFF
No. 72426
FOR PLAN REVIEW ONLY
NOT FOR CONSTRUCTION
CIVIL
STATE OF CALIFORNIA

DESIGNED BY:	VGH
DRAWN BY:	CK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	1" = 100'
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	0061-0091 DWTR.dwg
SHEET NO.	C-33 of 65

ID No.	No. Trunks	DBH (in)	Common Name
240	2	27	Blue Gum
241	2	22	Arroyo Willow
242	5	19	Arroyo Willow
243	2	14	Arroyo Willow
244	2	20	Arroyo Willow
245	1	13	Arroyo Willow
246	1	10	Arroyo Willow
247	1	23	Fremont's Cottonwood
248	1	25	California Sycamore
249	1	29	Arroyo Willow
250	1	31	California Sycamore
251	1	17	Fremont's Cottonwood
252	1	9	Arroyo Willow
253	1	14	California Sycamore
254	4	17	Arroyo Willow
255	1	31	Arroyo Willow
256	3	20	California Sycamore
257	1	9	Arroyo Willow
258	1	8	Southern California Black Walnut
259	1	15	Southern California Black Walnut
260	3	28	Ornamental
261	1	10	Arroyo Willow
262	2	85	Blue Gum
263	1	23	Blue Gum
264	4	69	Blue Gum
265	4	35	Blue Gum
266	1	70	Blue Gum
267	1	>80	Blue Gum
268	4	27	Arroyo Willow
269	1	64	Blue Gum
270	1	40	Blue Gum
271	1	17	Coast Live Oak
272	2	67	Blue Gum
273	2	19	Arroyo Willow
274	2	18	Southern California Black Walnut
275	2	11	Arroyo Willow
276	1	9	California Sycamore
277	2	31	Arroyo Willow
278	1	8	Arroyo Willow
279	1	35	Blue Gum
280	1	48	Blue Gum
281	1	50	Blue Gum
282	5	38	California Bay
283	2	20	Southern California Black Walnut
284	1	25	Peruvian Pepper
285	2	11	Arroyo Willow

ID No.	No. Trunks	DBH (in)	Common Name
286	4	17	Arroyo Willow
287	1	15	Arroyo Willow
288	2	33	Arroyo Willow
289	4	35	Southern California Black Walnut
290	3	26	California Bay
291	2	29	Southern California Black Walnut
292	2	26	Arroyo Willow
293	1	13	Arroyo Willow
294	2	23	Arroyo Willow
295	3	15	Arroyo Willow
296	2	4	Coast Live Oak
297	3	20	Coast Live Oak
298	2	21	Arroyo Willow
299	1	10	Arroyo Willow
300	4	51	Southern California Black Walnut
301	10	30	Peruvian Pepper
302	10	0	Coast Live Oak
303	2	10	Valley Oak
304	6	49	Ornamental
305	2	35	Ornamental
306	1	11	Coast Live Oak
307	10	26	Peruvian Pepper
308	11	26	Peruvian Pepper
309	9	22	Peruvian Pepper
310	5	32	Arroyo Willow
311	1	11	Arroyo Willow
312	2	22	Arroyo Willow
313	5	24	Arroyo Willow
314	9	18	Peruvian Pepper
315	7	91	Peruvian Pepper
316	3	19	Arroyo Willow
317	3	17	Arroyo Willow
318	4	54	Fremont's Cottonwood
319	2	27	Peruvian Pepper
320	3	37	Ornamental
321	1	10	Peruvian Pepper
322	2	28	Coast Live Oak
323	2	26	Arroyo Willow
324	4	39	Arroyo Willow
325	2	10	Coast Live Oak
326	2	33	Southern California Black Walnut
327	1	9	Southern California Black Walnut
328	2	32	Arroyo Willow
329	3	28	Arroyo Willow
330	2	29	Arroyo Willow
331	1	24	Arroyo Willow

REFERENCE NOTES:	
XXX	DESCRIPTION
200	TREES
202	PRUNE TREE
203	PRUNE TREE AND TREE ROOTS
205	REMOVE TREE TO (E) GROUND, ROOTS TO REMAIN
206	TREE REMOVED TO STUMP BY OTHERS PRIOR TO START OF WORK. REMOVE STUMP AND ROOTS.

LEGEND:

- ● 100 (E) TREE AND TAG NUMBER
- ⊠ REMOVE (E) TREE
- ● NT (E) TREE WITHOUT TAG
- ○ (E) TREE, SEE NOTE

NORTH

30 15 0 30

SCALE 1" = 30'

CITY OF SAN LUIS OBISPO

MID-HIGUERA BYPASS

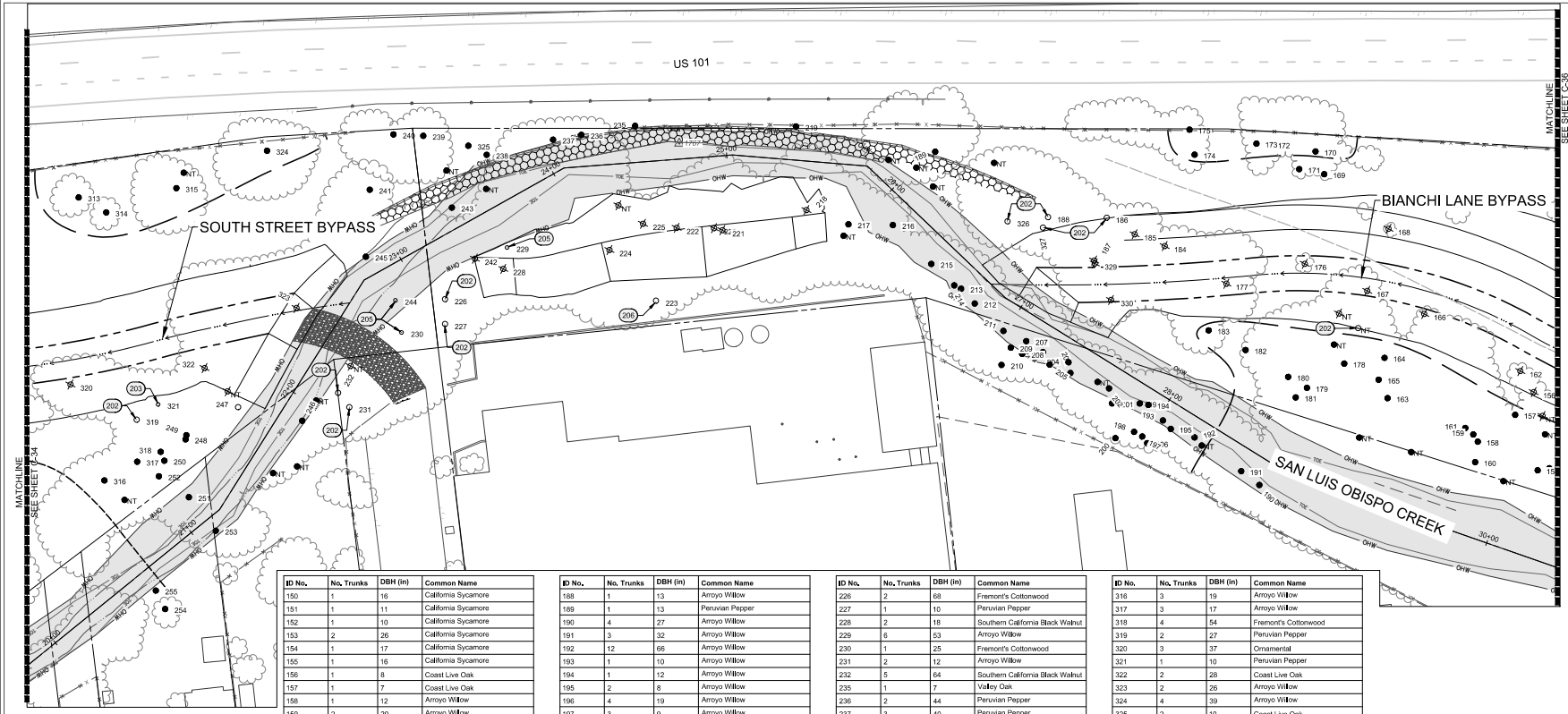
EXISTING TREE PLAN

PROJECT TITLE:

SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER
VALERIE G. HUFF
No. 72426
FOR PLAN REVIEW ONLY
NOT FOR CONSTRUCTION
CIVIL
STATE OF CALIFORNIA

DESIGNED BY: VGH
DRAWN BY: CK
CHECKED BY: CAC
APPROVED BY:
SCALE: 1" = 30'
DATE: 6/11/2024
CITY SPECIFICATION NO. 2090649
PLAN FILE NO. / LOCATION 0001-2091 TREE.dwg
SHEET NO. C-34 of 65



ID No.	No. Trunks	DBH (in)	Common Name
150	1	16	California Sycamore
151	1	11	California Sycamore
152	1	10	California Sycamore
153	2	26	California Sycamore
154	1	17	California Sycamore
155	1	16	California Sycamore
156	1	8	Coast Live Oak
157	1	7	Coast Live Oak
158	1	12	Arroyo Willow
159	2	20	Arroyo Willow
160	2	28	Southern California Black Walnut
161	2	28	Arroyo Willow
162	1	9	Coast Live Oak
163	1	10	Arroyo Willow
164	4	12	Arroyo Willow
165	1	10	Arroyo Willow
166	4	45	Coast Live Oak
167	1	8	Coast Live Oak
168	1	4,5	Valley Oak
169	3	9	Coast Live Oak
170	2	13	Golden Wattle
171	4	10	Coast Live Oak
172	3	15	Ornamental
173	2	18	Ornamental
174	2	27	Peruvian Pepper
175	1	9	Peruvian Pepper
176	1	6	Coast Live Oak
177	5	41	Arroyo Willow
178	1	17	Arroyo Willow
179	2	20	Arroyo Willow
180	2	27	Arroyo Willow
181	2	29	Arroyo Willow
182	1	17	Southern California Black Walnut
183	1	19	Arroyo Willow
184	4	12	Arroyo Willow
185	3	10	Arroyo Willow
186	3	28	Southern California Black Walnut
187	2	13	Arroyo Willow

ID No.	No. Trunks	DBH (in)	Common Name
188	1	13	Arroyo Willow
189	1	13	Peruvian Pepper
190	4	27	Arroyo Willow
191	3	32	Arroyo Willow
192	12	66	Arroyo Willow
193	1	10	Arroyo Willow
194	1	12	Arroyo Willow
195	2	8	Arroyo Willow
196	4	19	Arroyo Willow
197	3	9	Arroyo Willow
198	6	17	Arroyo Willow
199	2	13	Arroyo Willow
200	3	6	Coast Live Oak
201	4	33	Arroyo Willow
202	2	15	Arroyo Willow
203	1	9	Arroyo Willow
204	3	19	Arroyo Willow
205	2	12	Arroyo Willow
206	4	16	Arroyo Willow
207	3	20	Arroyo Willow
208	2	24	Arroyo Willow
209	1	8	Arroyo Willow
210	5	37	Arroyo Willow
211	1	16	Arroyo Willow
212	2	14	Southern California Black Walnut
213	5	57	Fremont's Cottonwood
214	2	21	Arroyo Willow
215	1	9	Arroyo Willow
216	1	13	Arroyo Willow
217	6	53	Arroyo Willow
218	3	57	Arroyo Willow
219	1	5	Arroyo Willow
220	1	12	Arroyo Willow
221	3	46	Arroyo Willow
222	1	14	Southern California Black Walnut
223	1	>80	Blue Gum
224	1	19	Arroyo Willow
225	2	10	Arroyo Willow

ID No.	No. Trunks	DBH (in)	Common Name
226	2	68	Fremont's Cottonwood
227	1	10	Peruvian Pepper
228	2	18	Southern California Black Walnut
229	6	53	Arroyo Willow
230	1	25	Fremont's Cottonwood
231	2	12	Arroyo Willow
232	5	64	Southern California Black Walnut
235	1	7	Valley Oak
236	2	44	Peruvian Pepper
237	3	40	Peruvian Pepper
238	4	22	Arroyo Willow
239	3	46	Blue Gum
240	2	27	Blue Gum
241	2	22	Arroyo Willow
242	5	19	Arroyo Willow
243	2	14	Arroyo Willow
244	2	20	Arroyo Willow
245	1	13	Arroyo Willow
246	1	10	Arroyo Willow
247	1	23	Fremont's Cottonwood
248	1	25	California Sycamore
249	1	29	Arroyo Willow
250	1	31	California Sycamore
251	1	17	Fremont's Cottonwood
252	1	9	Arroyo Willow
253	1	14	California Sycamore
254	4	17	Arroyo Willow
255	1	31	Arroyo Willow
256	3	20	California Sycamore
257	1	9	Arroyo Willow
258	1	8	Southern California Black Walnut
259	1	15	Southern California Black Walnut
310	5	32	Arroyo Willow
311	1	11	Arroyo Willow
312	2	22	Arroyo Willow
313	5	24	Arroyo Willow
314	9	18	Peruvian Pepper
315	7	91	Peruvian Pepper

ID No.	No. Trunks	DBH (in)	Common Name
316	3	19	Arroyo Willow
317	3	17	Arroyo Willow
318	4	54	Fremont's Cottonwood
319	2	27	Peruvian Pepper
320	3	37	Ornamental
321	1	10	Peruvian Pepper
322	2	28	Coast Live Oak
323	2	26	Arroyo Willow
324	4	39	Arroyo Willow
325	2	10	Coast Live Oak
326	2	33	Southern California Black Walnut
327	1	9	Southern California Black Walnut
329	3	28	Arroyo Willow
330	2	29	Arroyo Willow
331	1	24	Arroyo Willow

REFERENCE NOTES:	
XXX	DESCRIPTION
200	TREES
202	PRUNE TREE
203	PRUNE TREE AND TREE ROOTS
205	REMOVE TREE TO (E) GROUND. ROOTS TO REMAIN
206	TREE REMOVED TO STUMP BY OTHERS PRIOR TO START OF WORK. REMOVE STUMP AND ROOTS.

LEGEND:

- ● 100 (E) TREE AND TAG NUMBER
- ⊠ REMOVE (E) TREE
- ● NT (E) TREE WITHOUT TAG
- ○ (E) TREE, SEE NOTE

CITY OF SAN LUIS OBISPO

MID-HIGUERA BYPASS

EXISTING TREE PLAN

PROJECT TITLE:

SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER VALERIE G. HUFF No. 72426 FOR PLAN REVIEW ONLY NOT FOR CONSTRUCTION CIVIL STATE OF CALIFORNIA

DESIGNED BY: VGH

DRAWN BY: CK

CHECKED BY: CAC

APPROVED BY:

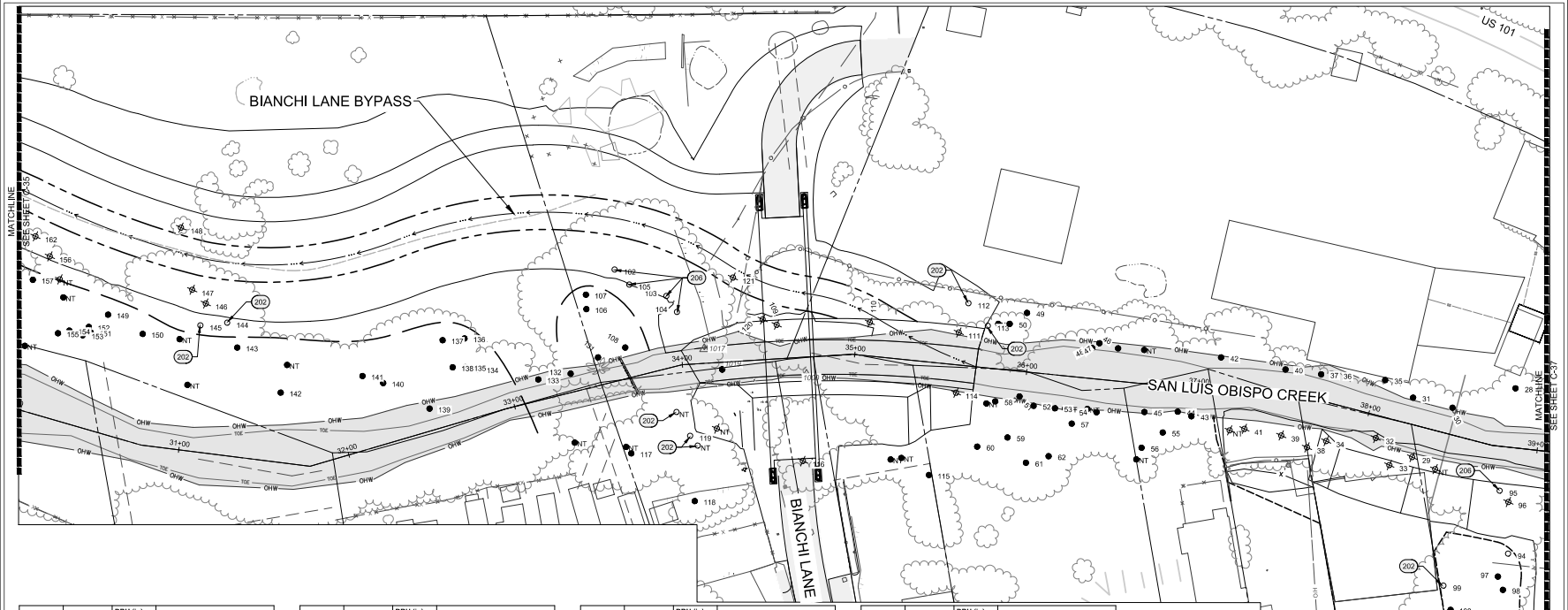
SCALE: 1" = 30'

DATE: 6/11/2024

CITY SPECIFICATION NO. 2090649

PLAN FILE NO. / LOCATION 0001-0091 TREE.dwg

SHEET NO. C-35 of 65



ID No.	No. Trunks	DBH (in)	Common Name
25	2	8	Arroyo Willow
26	3	12	Arroyo Willow
27	2	17	Arroyo Willow
28	3	85	Southern California Black Walnut
29	4	32	Arroyo Willow
30	1	35	Arroyo Willow
31	6	22	California Sycamore
32	2	23	Arroyo Willow
33	2	21	Arroyo Willow
34	1	25	Arroyo Willow
35	1	38	Arroyo Willow
36	1	10	Arroyo Willow
37	1	26	Arroyo Willow
38	1	16	Arroyo Willow
39	4	67	Southern California Black Walnut
40	4	33	Arroyo Willow
41	5	32	Arroyo Willow
42	1	28	Arroyo Willow
43	1	17	Southern California Black Walnut
44	2	18	Chinese Elm
45	5	34	Chinese Elm
46	4	81	Arroyo Willow
47	1	19	Arroyo Willow
48	1	21	Arroyo Willow
49	1	8	Southern California Black Walnut
50	1	8	Avocado
51	2	10	Arroyo Willow
52	1	8	Chinese Elm
53	3	13	Chinese Elm
54	3	13	Chinese Elm
55	2	11	Chinese Elm
56	8	51	Chinese Elm
57	3	26	Southern California Black Walnut
58	1	21	Southern California Black Walnut
59	1	12	Chinese Elm

ID No.	No. Trunks	DBH (in)	Common Name
60	1	31	Southern California Black Walnut
61	1	21	Monterey Pine
62	1	21	Monterey Pine
63	1	11	Fremont's Cottonwood
64	2	13	Fremont's Cottonwood
65	1	9	Fremont's Cottonwood
66	7	31	Fremont's Cottonwood
67	1	10	Fremont's Cottonwood
68	4	19	Arroyo Willow
69	1	21	Fremont's Cottonwood
70	1	21	Fremont's Cottonwood
71	1	31	California Sycamore
72	1	12	Valley Oak
73	1	23	Coast Live Oak
74	1	22	Fremont's Cottonwood
75	3	9	Coast Live Oak
76	1	31	Coast Live Oak
77	1	20	Fremont's Cottonwood
78	2	17	Coast Live Oak
79	3	20	Fremont's Cottonwood
80	3	16	Fremont's Cottonwood
81	2	14	Avocado
82	1	31	Coast Live Oak
83	1	28	Fremont's Cottonwood
84	6	24	Arroyo Willow
85	3	28	Coast Live Oak
86	2	6	Coast Live Oak
87	9	85	Coast Live Oak
88	2	36	Coast Live Oak
89	2	14	Persimmon
90	1	19	Coast Live Oak
91	1	20	Coast Live Oak
92	5	13	Ornamental
93	1	15	Coast Live Oak
94	1	33	Coast Live Oak

ID No.	No. Trunks	DBH (in)	Common Name
95	1	>80	Blue Gum
96	1	18	Southern California Black Walnut
97	1	20	Coast Live Oak
98	2	25	Coast Live Oak
99	1	38	California Sycamore
100	3	26	Black Elderberry
101	1	15	Avocado
102	1	>80	Blue Gum
103	1	21	Blue Gum
104	2	80	Blue Gum
105	2	29	Blue Gum
106	2	12	Blue Gum
107	3	75	Blue Gum
108	2	44	Blue Gum
109	3	39	Southern California Black Walnut
110	2	56	Arroyo Willow
111	5	22	Arroyo Willow
112	6	43	Arroyo Willow
113	1	8	Southern California Black Walnut
114	1	16	Arroyo Willow
115	1	25	Ornamental
116	1	13	Arroyo Willow
117	6	55	California Bay
118	1	9	Arroyo Willow
119	4	60	Arroyo Willow
120	2	19	Arroyo Willow
121	2	21	Arroyo Willow
122	4	36	Golden Wattle
123	1	14	Golden Wattle
124	4	20	Golden Wattle
125	1	25	Golden Wattle
126	1	14	Coast Live Oak
127	2	14	Coast Live Oak
128	4	32	Golden Wattle
129	3	44	Coast Live Oak

ID No.	No. Trunks	DBH (in)	Common Name
130	1	14	Blue Gum
131	1	32	Palm
132	7	32	Arroyo Willow
133	3	20	Arroyo Willow
134	7	26	Arroyo Willow
135	1	5	Arroyo Willow
136	2	8	Arroyo Willow
137	3	22	Arroyo Willow
138	3	17	Arroyo Willow
139	2	66	Arroyo Willow
140	1	10	Arroyo Willow
141	7	39	Arroyo Willow
142	4	48	California Sycamore
143	3	20	California Bay
144	1	11	Arroyo Willow
145	2	30	Arroyo Willow
146	1	8	Coast Live Oak
147	4	30	Arroyo Willow
148	7	25	Ornamental
149	3	71	California Sycamore
150	1	16	California Sycamore
151	1	11	California Sycamore
152	1	10	California Sycamore
153	2	26	California Sycamore
154	1	17	California Sycamore
155	1	16	California Sycamore
156	1	8	Coast Live Oak
157	1	7	Coast Live Oak
158	1	12	Arroyo Willow
159	2	20	Arroyo Willow
160	2	28	Southern California Black Walnut
161	2	28	Arroyo Willow
162	1	9	Coast Live Oak

REFERENCE NOTES:	
XXX	DESCRIPTION
200	TREES
202	PRUNE TREE
203	PRUNE TREE AND TREE ROOTS
205	REMOVE TREE TO (E) GROUND. ROOTS TO REMAIN
206	TREE REMOVED TO STUMP BY OTHERS PRIOR TO START OF WORK. REMOVE STUMP AND ROOTS.

LEGEND:

- ● 100 (E) TREE AND TAG NUMBER
- ⊠ REMOVE (E) TREE
- ● NT (E) TREE WITHOUT TAG
- ○ (E) TREE, SEE NOTE

NORTH

30 15 0 30

SCALE 1" = 30'

CITY OF SAN LUIS OBISPO

MID-HIGUERA BYPASS

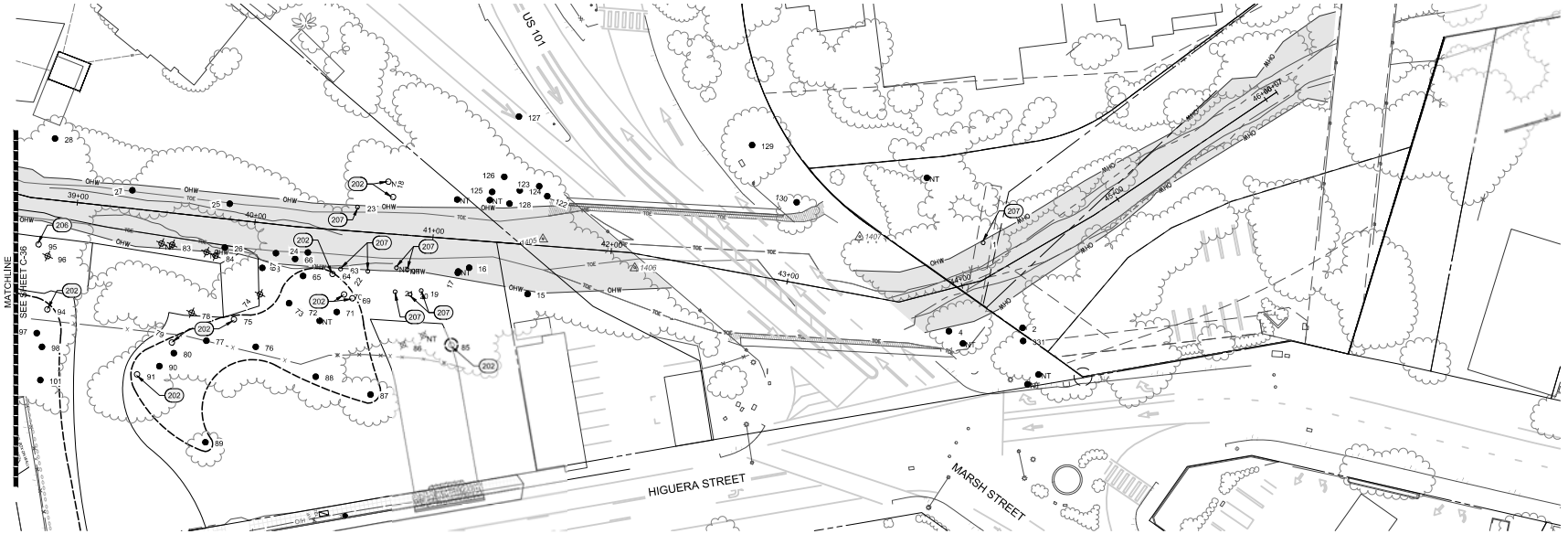
EXISTING TREE PLAN

PROJECT TITLE:

SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER
VALERIE G. HUFF
No. 72426
FOR PLAN REVIEW ONLY
NOT FOR CONSTRUCTION
CIVIL
STATE OF CALIFORNIA

DESIGNED BY: VGH
DRAWN BY: CK
CHECKED BY: CAC
APPROVED BY:
SCALE: 1" = 30'
DATE: 6/11/2024
CITY SPECIFICATION NO. 2090649
PLAN FILE NO. / LOCATION 0061-2091 TREE.dwg
SHEET NO. C-36 of 65



ID No.	No. Trunks	DBH (in)	Common Name
1	3	26	Arroyo Willow
2	5	102	Arroyo Willow
4	6	20	Arroyo Willow
15	6	56	Arroyo Willow
16	1	10	Fremont's Cottonwood
17	1	11	Fremont's Cottonwood
18	6	44	Arroyo Willow
19	1	37	Fremont's Cottonwood
20	1	38	Fremont's Cottonwood
21	1	35	Fremont's Cottonwood
22	6	32	Fremont's Cottonwood
23	1	30	Arroyo Willow
24	1	9	Fremont's Cottonwood
25	2	8	Arroyo Willow
26	3	12	Arroyo Willow
27	2	17	Arroyo Willow
28	3	85	Southern California Black Walnut
29	4	32	Arroyo Willow
30	1	35	Arroyo Willow
31	6	22	California Sycamore
32	2	23	Arroyo Willow
33	2	21	Arroyo Willow
34	1	25	Arroyo Willow
35	1	38	Arroyo Willow
36	1	10	Arroyo Willow
37	1	26	Arroyo Willow
38	1	16	Arroyo Willow
39	4	67	Southern California Black Walnut
40	4	33	Arroyo Willow
41	5	32	Arroyo Willow
42	1	28	Arroyo Willow
43	1	17	Southern California Black Walnut
44	2	18	Chinese Elm
45	5	34	Chinese Elm
46	4	81	Arroyo Willow
47	1	19	Arroyo Willow
48	1	21	Arroyo Willow
49	1	8	Southern California Black Walnut
50	1	8	Avocado
51	2	10	Arroyo Willow

ID No.	No. Trunks	DBH (in)	Common Name
52	1	8	Chinese Elm
53	3	13	Chinese Elm
54	3	13	Chinese Elm
55	2	11	Chinese Elm
56	8	51	Chinese Elm
57	3	26	Southern California Black Walnut
58	1	21	Southern California Black Walnut
59	1	12	Chinese Elm
60	1	31	Southern California Black Walnut
61	1	21	Monterey Pine
62	1	21	Monterey Pine
63	1	11	Fremont's Cottonwood
64	2	13	Fremont's Cottonwood
65	1	9	Fremont's Cottonwood
66	7	31	Fremont's Cottonwood
67	1	10	Fremont's Cottonwood
68	4	19	Arroyo Willow
69	1	21	Fremont's Cottonwood
70	1	21	Fremont's Cottonwood
71	1	31	California Sycamore
72	1	12	Valley Oak
73	1	23	Coast Live Oak
74	1	22	Fremont's Cottonwood
75	3	9	Coast Live Oak
76	1	31	Coast Live Oak
77	1	20	Fremont's Cottonwood
78	2	17	Coast Live Oak
79	3	20	Fremont's Cottonwood
80	3	16	Fremont's Cottonwood
81	2	14	Avocado
82	1	31	Coast Live Oak
83	1	28	Fremont's Cottonwood
84	6	24	Arroyo Willow
85	3	28	Coast Live Oak
86	2	6	Coast Live Oak
87	9	85	Coast Live Oak
88	2	36	Coast Live Oak
89	2	14	Persimmon
90	1	19	Coast Live Oak
91	1	20	Coast Live Oak

ID No.	No. Trunks	DBH (in)	Common Name
92	5	13	Ornamental
93	1	15	Coast Live Oak
94	1	33	Coast Live Oak
95	1	>80	Blue Gum
96	1	18	Southern California Black Walnut
97	1	20	Coast Live Oak
98	2	25	Coast Live Oak
99	1	38	California Sycamore
100	3	26	Black Elderberry
101	1	15	Avocado
102	1	>80	Blue Gum
103	1	21	Blue Gum
104	2	80	Blue Gum
105	2	29	Blue Gum
106	2	12	Blue Gum
107	3	75	Blue Gum
108	2	44	Blue Gum
109	3	39	Southern California Black Walnut
110	2	56	Arroyo Willow
111	5	22	Arroyo Willow
112	6	43	Arroyo Willow
113	1	8	Southern California Black Walnut
114	1	16	Arroyo Willow
115	1	25	Ornamental
116	1	13	Arroyo Willow
117	6	55	California Bay
118	1	9	Arroyo Willow
119	4	60	Arroyo Willow
120	2	19	Arroyo Willow
121	2	21	Arroyo Willow
122	4	36	Golden Wattle
123	1	14	Golden Wattle
124	4	20	Golden Wattle
125	1	25	Golden Wattle
126	1	14	Coast Live Oak
127	2	14	Coast Live Oak
128	4	32	Golden Wattle
129	3	44	Coast Live Oak
130	1	14	Blue Gum
131	1	32	Palm

ID No.	No. Trunks	DBH (in)	Common Name
132	7	32	Arroyo Willow
133	3	20	Arroyo Willow
134	7	26	Arroyo Willow
135	1	5	Arroyo Willow
136	2	8	Arroyo Willow
137	3	22	Arroyo Willow
138	3	17	Arroyo Willow
139	2	66	Arroyo Willow
140	1	10	Arroyo Willow
141	7	39	Arroyo Willow
142	4	48	California Sycamore
143	3	20	California Bay
144	1	11	Arroyo Willow
145	2	30	Arroyo Willow
146	1	8	Coast Live Oak
147	4	30	Arroyo Willow
148	7	25	Ornamental
149	3	71	California Sycamore
150	1	16	California Sycamore
151	1	11	California Sycamore

REFERENCE NOTES:	
XXX	DESCRIPTION
200	TREES
202	PRUNE TREE
203	PRUNE TREE AND TREE ROOTS
205	REMOVE TREE TO (E) GROUND. ROOTS TO REMAIN
206	TREE REMOVED TO STUMP BY OTHERS PRIOR TO START OF WORK. REMOVE STUMP AND ROOTS.
207	TREE REMOVED TO STUMP BY OTHERS PRIOR TO START OF WORK. REMOVE STUMP TO (E) GROUND.

LEGEND:

- ● 100 (E) TREE AND TAG NUMBER
- ⊠ REMOVE (E) TREE
- ● NT (E) TREE WITHOUT TAG
- ○ (E) TREE, SEE NOTE

NORTH

30 15 0 30

SCALE 1" = 30'

CITY OF SAN LUIS OBISPO

MID-HIGUERA BYPASS

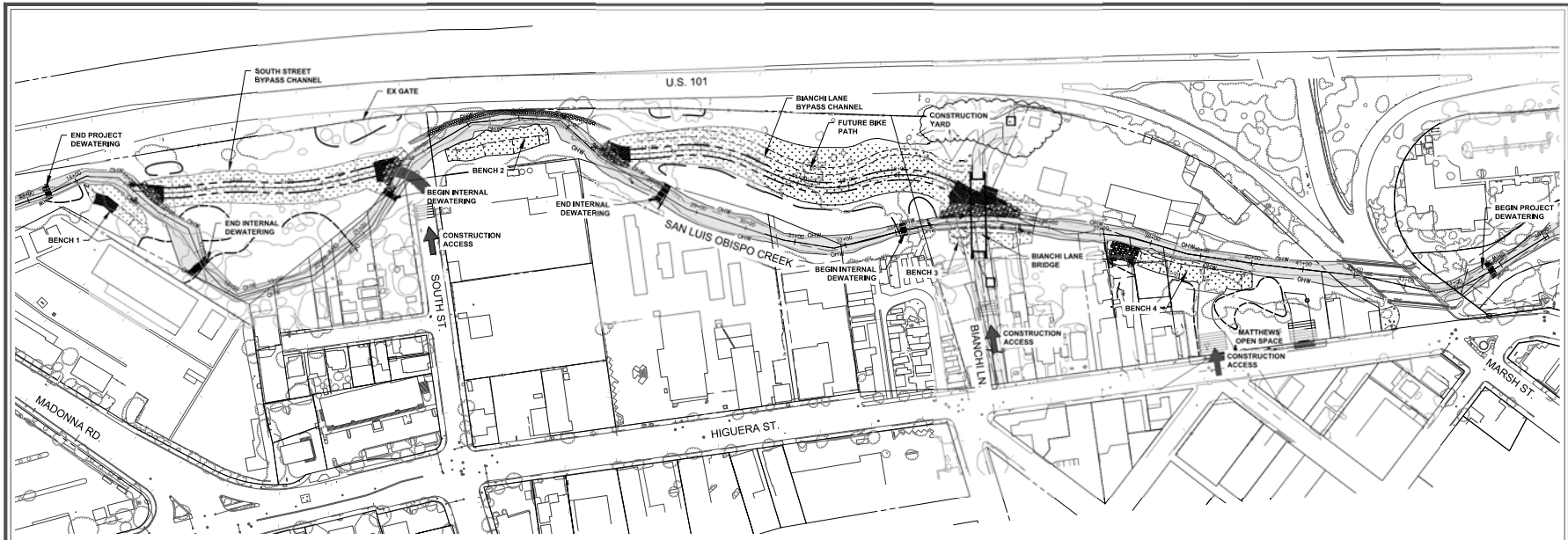
EXISTING TREE PLAN

PROJECT TITLE:

SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER
VALERIE G. HUFF
No. 72426
FOR PLAN REVIEW ONLY
NOT FOR CONSTRUCTION
CIVIL
STATE OF CALIFORNIA

DESIGNED BY: VGH
DRAWN BY: CK
CHECKED BY: CAC
APPROVED BY:
SCALE: 1" = 30'
DATE: 6/11/2024
CITY SPECIFICATION NO. 2090649
PLAN FILE NO. / LOCATION 0001-2091 TREE.dwg
SHEET NO. C-37 of 65



LEGEND

- TOE — (E) TOE OF SLOPE
- ORDINARY HIGH WATER MARK LIMIT
- ORDINARY HIGH WATER (OHW)
- PROPOSED RSP
- EROSION CONTROL BLANKET
- PARCEL LINE FROM CITY GIS
- PROPOSED GRADING LIMIT
- STABILIZED CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT

EROSION & SEDIMENTATION CONTROL NOTES

1. CONTRACTOR SHALL USE THE APPROPRIATE EROSION CONTROL AND SEDIMENT MEASURES AS SHOWN AND AS IDENTIFIED IN THE CONTRACTOR PREPARED SWPPP.
2. INSTALL EROSION CONTROL BLANKET ON ALL DISTURBED CREEK BANK SLOPES AND BYPASS CHANNEL SLOPES IMMEDIATELY AFTER GRADING OPERATIONS ARE COMPLETE AND BEFORE OCTOBER 15. APPLY HYDROSEED PRIOR TO INSTALLING EROSION CONTROL BLANKET. REFER TO REVEGETATION PLAN FOR HYDROSEED REQUIREMENTS.
3. LIMITS OF EROSION CONTROL BLANKET ARE SHOWN BASED ON ANTICIPATED LIMITS OF GRADING. ADDITIONAL EROSION CONTROL BLANKET MAY BE NEEDED TO STABILIZE AREAS THAT ARE GRADED OR DISTURBED AS PART OF CONSTRUCTION.
4. FIBER ROLLS SHALL BE AT 10' OC ON ALL DISTURBED 3:1 OR STEEPER SLOPES. FROM OCTOBER 15 THROUGH APRIL 15.
5. CONTRACTOR SHALL DETERMINE EXACT LOCATIONS OF TEMPORARY CONSTRUCTION ENTRANCE/EXIT LOCATIONS BASED ON WORK ACTIVITIES.
6. CONCRETE WASHOUTS SHALL BE LOCATED A MINIMUM OF 50 FEET FROM TOP OF CREEK BANK.

NORTH

100 50 0 100

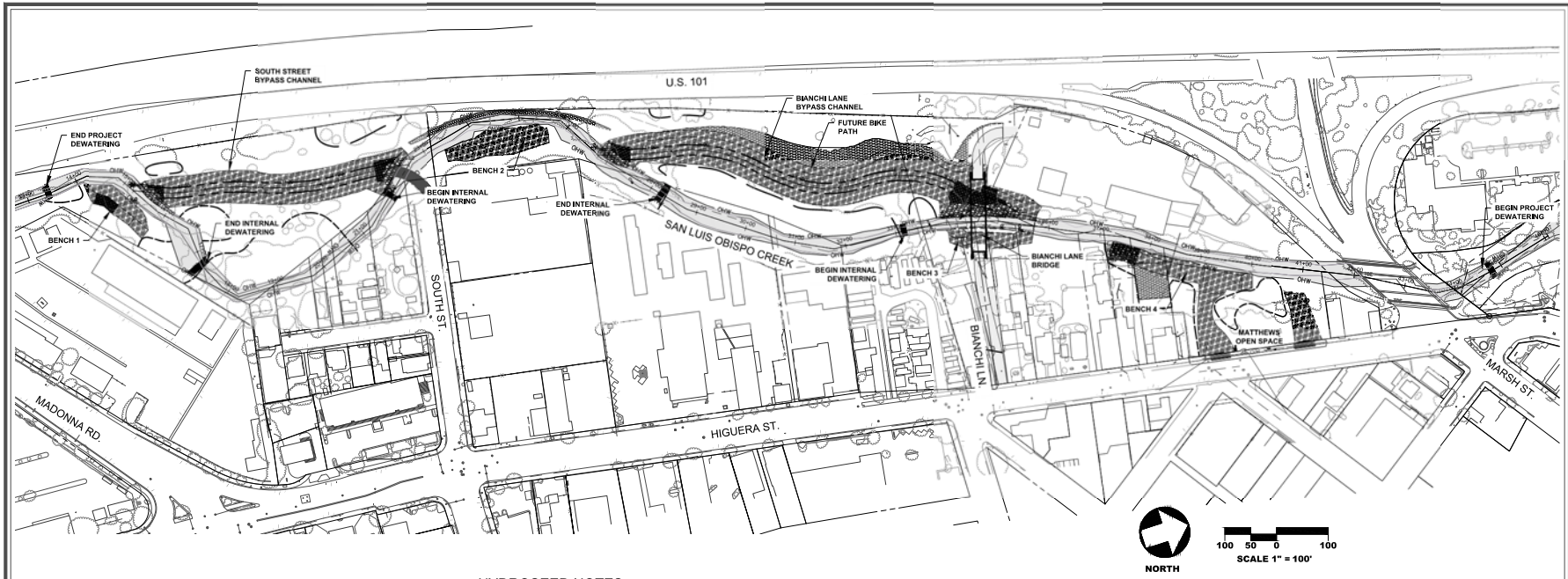
SCALE 1" = 100'

PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: TEMPORARY WATER POLLUTION CONTROL PLAN

REGISTERED PROFESSIONAL ENGINEER VALERIE C. HUFF No. 72426 FOR PLAN REVIEW ONLY NOT FOR CONSTRUCTION CIVIL STATE OF CALIFORNIA

DESIGNED BY:	VGH
DRAWN BY:	CK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	1" = 100'
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	0061-0091 WPCP.dwg
SHEET NO.	C-38 of 65



LEGEND

- TOE — (E) TOE OF SLOPE
- ORDINARY HIGH WATER MARK LIMIT
- ORDINARY HIGH WATER (OHW)
- PROPOSED RSP
- HYDROSEED MIX "A"
- HYDROSEED MIX "B"
- PARCEL LINE FROM CITY GIS
- PROPOSED GRADING LIMIT

HYDROSEED NOTES:

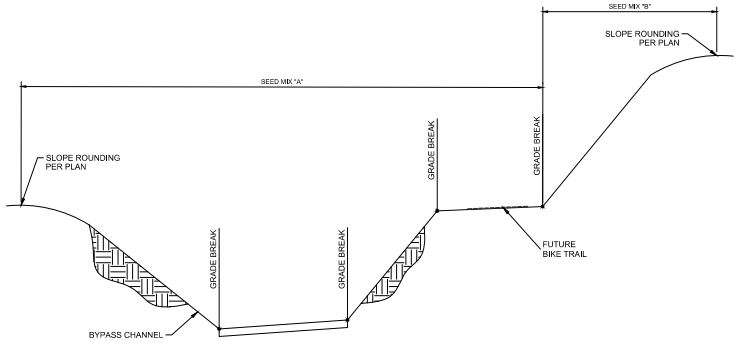
1. HYDROSEED MIX SHALL BE APPLIED TO ALL EXPOSED SOIL IMMEDIATELY AFTER GRADING OPERATIONS ARE COMPLETE.
2. SEED MIX SHALL BE EITHER MIX "A" OR MIX "B" AS SPECIFIED BELOW.
3. SEED MIX "A" SHALL BE USED WITHIN THE CREEK CHANNEL, BYPASS CHANNELS, FUTURE BIKE PATH, AND WITHIN THE GRADING LIMITS OF THE MATTHEWS PEN SPACE.
4. SEED MIX "B" SHALL BE USED OUTSIDE THE CREEK CHANNEL AND BYPASS CHANNELS OR OTHER AREAS SHOWN AS SEED MIX "A".
5. LIMITS OF HYDROSEED ARE SHOWN BASED ON ANTICIPATED LIMITS OF GRADING. ADDITIONAL HYDROSEED MAY BE NEEDED TO STABILIZE AREAS THAT ARE GRADED OR DISTURBED AS PART OF CONSTRUCTION.

HYDROSEED MIX "A" (SAN LUIS OBISPO COUNTY STANDARD SEED MIX)

BOTANICAL NAME	COMMON NAME	APPLICATION RATE
BROMUS CARINATUS	CALIFORNIA BROME	12 LBS/ACRE
FESTUCA MICROSTACHYS	SMALL FESCUE	4 LBS/ACRE
TRIFOLIUM WILLDENOVII	TOMCAT CLOVER	2 LBS/ACRE
ESCHSCHOLZIA CALIFORNICA	CALIFORNIA POPPY	1.5 LB/ACRE
LUPINUS NANUS	SKY LUPINE	2 LBS/ACRE
LASTHENIA CALIFONICA	GOLDFIELDS	0.5 LBS/ACRE

HYDROSEED MIX "B" (SITE SPECIFIC SEED MIX)

BOTANICAL NAME	COMMON NAME	APPLICATION RATE
ARTEMISIA DOUGLASIANA	MUGWORT	1 LBS/ACRE
BACCHARIS PILULARIS	COYOTE BUSH	3 LBS/ACRE
BROMUS CARINATUS	CALIFORNIA BROME	8 LBS/ACRE
ELYMUS TRITICOIDES	BEARDLESS WILD-RYE	8 LB/ACRE
FESTUCA MICROSTACHYS	SMALL FESCUE	4 LB/ACRE
LUPINUS NANUS	SKY LUPINE	2 LBS/ACRE
TRIFOLIUM WILLDENOVII	TOMCAT CLOVER	2 LBS/ACRE
SYMPHYOTRICHUM SUBSPICATUM OR CHILENSE	DOUGLAS/PACIFIC ASTER	2 LBS/ACRE
SOLIDAGO CONFINIS OR VELUTINA	SOUTHERN/VELVETY GOLDENROD	2 LBS/ACRE



1 BYPASS CHANNEL TYPICAL HYDROSEED LIMITS

SCALE: N.T.S.

MID-HIGUERA BYPASS

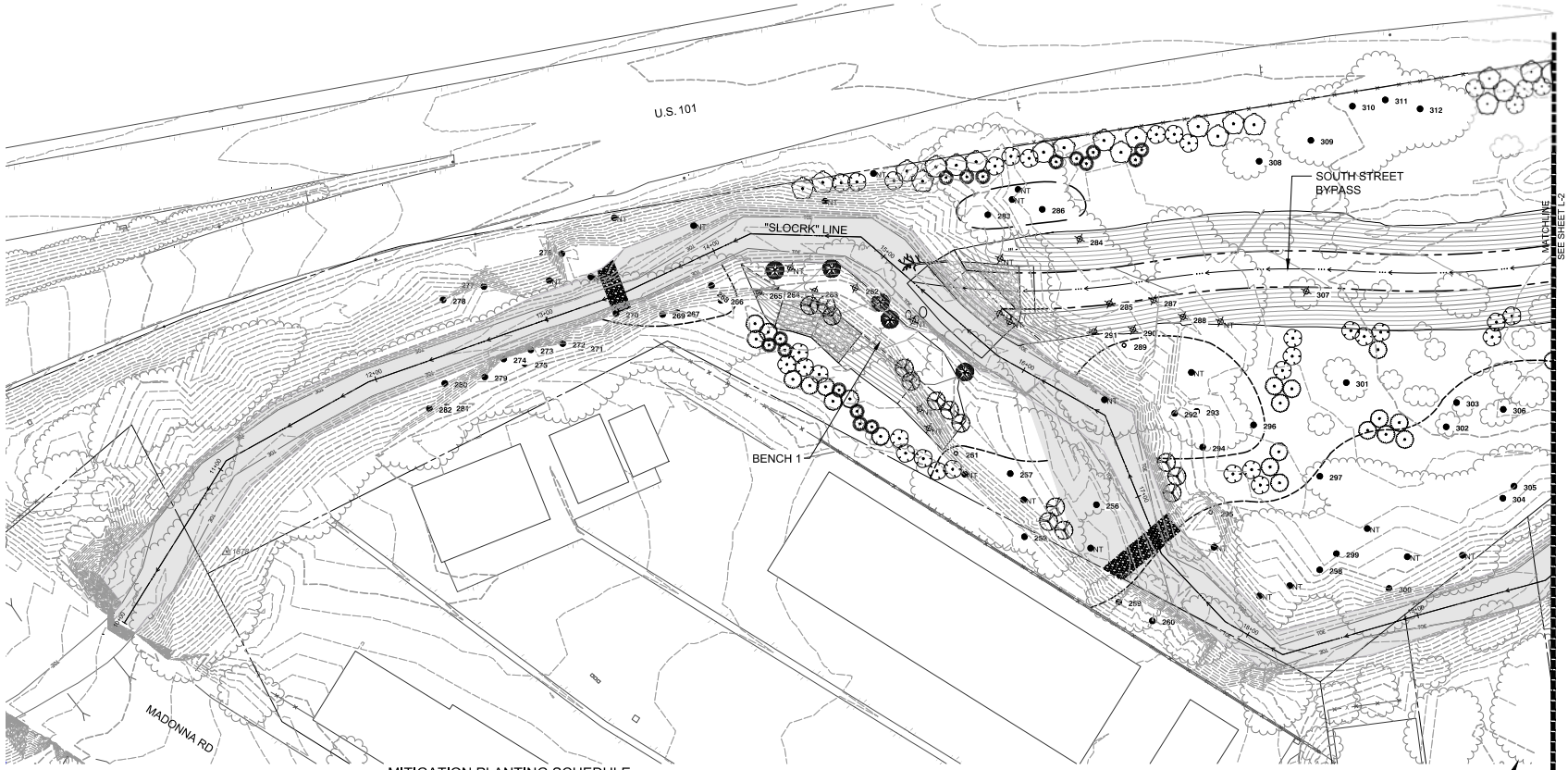
HYDROSEED PLAN

PROJECT TITLE:

SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER — VALERIE C. HUFF — No. 72426 — FOR PLAN REVIEW ONLY NOT FOR CONSTRUCTION — CIVIL — STATE OF CALIFORNIA

DESIGNED BY:	VGH
DRAWN BY:	CK
CHECKED BY:	CAC
APPROVED BY:	
SCALE:	1" = 100'
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	0061-0091 WPCP.dwg
SHEET NO.	C-39 of 65



LEGEND

- (E) TREE AND TAG NUMBER
- REMOVE (E) TREE
- (E) TREE WITHOUT TAG
- (E) TREE. SEE NOTE PER EXISTING TREE PLAN
- TEMPORARY HIGH VISIBILITY FENCE
- PROPOSED SURFACE GRADING LIMIT
- BYPASS CHANNEL TOE
- (E) TOE OF SLOPE
- FINISHED GRADE CONTOUR
- (E) GRADE CONTOUR
- ORDINARY HIGH WATER MARK LIMIT
- ORDINARY HIGH WATER (OHW)
- PROPOSED RSP
- (E) CONCRETE SACK WALL
- PARCEL LINE FROM CITY GIS

MITIGATION PLANTING SCHEDULE

SYMBOL	BOTANICAL / COMMON NAME	CONT	QTY
TREES			
	ACER MACROPHYLLUM / BIG LEAF MAPLE	15 GAL	16
	POPULUS FREMONTII / FREMONT COTTONWOOD	CUTTINGS	23
	POPULUS TRICHOCARPA / BLACK COTTONWOOD	CUTTINGS	46
	QUERCUS AGRIFOLIA / COAST LIVE OAK	15 GAL	124
	QUERCUS AGRIFOLIA / COAST LIVE OAK	24"BOX	69
SHRUBS			
	HETEROMELES ARBUTIFOLIA / TOYON	5 GAL	117
	LEYMUS TRITICOIDES / CREEPING WILDRYE	1 GAL	50
	RHAMNUS CALIFORNICA / CALIFORNIA COFFEE BERRY	5 GAL	43
	ROSA CALIFORNICA / CALIFORNIA WILD ROSE	1 GAL	44
	RUBUS URSINUS / CALIFORNIA BLACKBERRY	1 GAL	50

IRRIGATION NOTES

1. SEE CIVIL UTILITY PLANS FOR LOCATIONS OF IRRIGATION WATER METERS AND QUICK COUPLER VALVE BOXES AND INSTALLATION DETAILS.
2. IRRIGATION SYSTEM SHALL BE DESIGN BUILT BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. SUBMITTAL REQUIRED FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL VERIFY LINE PRESSURE PRIOR TO DESIGN OF IRRIGATION SYSTEM.
4. IRRIGATION LINES SHALL BE LOCATED OUTSIDE OF ACTIVE CREEK CHANNEL.

APPROXIMATE LOCATION OF (E) CITY OF SLO QUICK COUPLER, LOCATED IN ETO PARK, FED FROM 8" WATER MAIN IN BROOK STREET

NORTH

30 15 0 30

SCALE 1" = 30

CITY OF SAN LUIS OBISPO

PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: REVEGETATION PLAN

REGISTERED LANDSCAPE ARCHITECT — LIC. #6066 — ANN VAN DYKE — PRELIMINARY — NOT FOR CONSTRUCTION — STATE OF CALIFORNIA

DESIGNED BY:	EAS
DRAWN BY:	EAS
CHECKED BY:	EAS
APPROVED BY:	VGH
SCALE:	1" = 40'
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	
SHEET NO.	L-1 of 65

LEGEND

● 100	(E) TREE AND TAG NUMBER
⊠	REMOVE (E) TREE
● NT	(E) TREE WITHOUT TAG
○	(E) TREE. SEE NOTE PER EXISTING TREE PLAN
	TEMPORARY HIGH VISIBILITY FENCE
	PROPOSED SURFACE GRADING LIMIT
	BYPASS CHANNEL TOE
TOE	(E) TOE OF SLOPE
150	FINISHED GRADE CONTOUR
150	(E) GRADE CONTOUR
	ORDINARY HIGH WATER MARK LIMIT
	ORDINARY HIGH WATER (OHW)
	PROPOSED RSP
	(E) CONCRETE SACK WALL
	PARCEL LINE FROM CITY GIS

MITIGATION PLANTING SCHEDULE

SYMBOL	BOTANICAL / COMMON NAME	CONT	QTY
TREES			
	ACER MACROPHYLLUM / BIG LEAF MAPLE	15 GAL	16
	POPULUS FREMONTII / FREMONT COTTONWOOD	CUTTINGS	23
	POPULUS TRICHOCARPA / BLACK COTTONWOOD	CUTTINGS	46
	QUERCUS AGRIFOLIA / COAST LIVE OAK	15 GAL	124
	QUERCUS AGRIFOLIA / COAST LIVE OAK	24"BOX	69
SHRUBS			
	HETEROMELES ARBUTIFOLIA / TOYON	5 GAL	117
	LEYMUS TRITICOIDES / CREEPING WILDRYE	1 GAL	50
	RHAMNUS CALIFORNICA / CALIFORNIA COFFEE BERRY	5 GAL	43
	ROSA CALIFORNICA / CALIFORNIA WILD ROSE	1 GAL	44
	RUBUS URSINUS / CALIFORNIA BLACKBERRY	1 GAL	50

IRRIGATION NOTES

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3. CONTRACTOR SHALL VERIFY LINE PRESSURE PRIOR TO DESIGN OF IRRIGATION SYSTEM.
4. IRRIGATION LINES SHALL BE LOCATED OUTSIDE OF ACTIVE CREEK CHANNEL.

NORTH

30 15 0 30

SCALE 1" = 30

CITY OF SAN LUIS OBISPO

MID-HIGUERA BYPASS

REVEGETATION PLAN

PROJECT TITLE:

SHEET TITLE:

REGISTERED LANDSCAPE ARCHITECT LIC. #4345 ANN S. [illegible] STATE OF CALIFORNIA

PRELIMINARY NOT FOR CONSTRUCTION (EXCEPTION)

DESIGNED BY: EAS

DRAWN BY: EAS

CHECKED BY: EAS

APPROVED BY: VGH

SCALE: 1" = 40'

DATE: 6/11/2024

CITY SPECIFICATION NO. 2090649

PLAN FILE NO. / LOCATION

SHEET NO.

L-2 of 65

LEGEND

100	(E) TREE AND TAG NUMBER
⊠	REMOVE (E) TREE
NT	(E) TREE WITHOUT TAG
○	(E) TREE. SEE NOTE PER EXISTING TREE PLAN
	TEMPORARY HIGH VISIBILITY FENCE
	PROPOSED SURFACE GRADING LIMIT
	BYPASS CHANNEL TOE
TOE	(E) TOE OF SLOPE
150	FINISHED GRADE CONTOUR
150	(E) GRADE CONTOUR
	ORDINARY HIGH WATER MARK LIMIT
	ORDINARY HIGH WATER (OHW)
	PROPOSED RSP
	(E) CONCRETE SACK WALL
	PARCEL LINE FROM CITY GIS

MITIGATION PLANTING SCHEDULE

SYMBOL	BOTANICAL / COMMON NAME	CONT	QTY
TREES			
	ACER MACROPHYLLUM / BIG LEAF MAPLE	15 GAL	16
	POPULUS FREMONTII / FREMONT COTTONWOOD	CUTTINGS	23
	POPULUS TRICHOCARPA / BLACK COTTONWOOD	CUTTINGS	46
	QUERCUS AGRIFOLIA / COAST LIVE OAK	15 GAL	124
	QUERCUS AGRIFOLIA / COAST LIVE OAK	24"BOX	69
SHRUBS			
	HETEROMELES ARBUTIFOLIA / TOYON	5 GAL	117
	LEYMUS TRITICOIDES / CREEPING WILDRYE	1 GAL	50
	RHAMNUS CALIFORNICA / CALIFORNIA COFFEE BERRY	5 GAL	43
	ROSA CALIFORNICA / CALIFORNIA WILD ROSE	1 GAL	44
	RUBUS URSINUS / CALIFORNIA BLACKBERRY	1 GAL	50

IRRIGATION NOTES

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3. CONTRACTOR SHALL VERIFY LINE PRESSURE PRIOR TO DESIGN OF IRRIGATION SYSTEM.
4. IRRIGATION LINES SHALL BE LOCATED OUTSIDE OF ACTIVE CREEK CHANNEL.

NORTH

30 15 0 30

SCALE 1" = 30

CITY OF SAN LUIS OBISPO

MID-HIGUERA BYPASS

REVEGETATION PLAN

PROJECT TITLE:

SHEET TITLE:

REGISTERED LANDSCAPE ARCHITECT
LIC. #4345
ANN SIMS
PRELIMINARY NOT FOR CONSTRUCTION OR RECORDATION
STATE OF CALIFORNIA

DESIGNED BY:	EAS
DRAWN BY:	EAS
CHECKED BY:	EAS
APPROVED BY:	VGH
SCALE:	1" = 40'
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	
SHEET NO.	L-3 of 65

LEGEND

● 100	(E) TREE AND TAG NUMBER
⊠	REMOVE (E) TREE
● NT	(E) TREE WITHOUT TAG
○	(E) TREE, SEE NOTE PER EXISTING TREE PLAN
	TEMPORARY HIGH VISIBILITY FENCE
	PROPOSED SURFACE GRADING LIMIT
	BYPASS CHANNEL TOE
TOE	(E) TOE OF SLOPE
150	FINISHED GRADE CONTOUR
150	(E) GRADE CONTOUR
	ORDINARY HIGH WATER MARK LIMIT
	ORDINARY HIGH WATER (OHW)
	PROPOSED RSP
	(E) CONCRETE SACK WALL
	PARCEL LINE FROM CITY GIS

MITIGATION PLANTING SCHEDULE

SYMBOL	BOTANICAL / COMMON NAME	CONT	QTY
TREES			
	ACER MACROPHYLLUM / BIG LEAF MAPLE	15 GAL	16
	POPULUS FREMONTII / FREMONT COTTONWOOD	CUTTINGS	23
	POPULUS TRICHOCARPA / BLACK COTTONWOOD	CUTTINGS	46
	QUERCUS AGRIFOLIA / COAST LIVE OAK	15 GAL	124
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	LEYMUS TRITICOIDES / CREEPING WILDRYE	1 GAL	50
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	RUBUS URSINUS / CALIFORNIA BLACKBERRY	1 GAL	50

IRRIGATION NOTES

1. SEE CIVIL UTILITY PLANS FOR LOCATIONS OF IRRIGATION WATER METERS AND QUICK COUPLER VALVE BOXES AND INSTALLATION DETAILS.
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3. CONTRACTOR SHALL VERIFY LINE PRESSURE PRIOR TO DESIGN OF IRRIGATION SYSTEM.
4. IRRIGATION LINES SHALL BE LOCATED OUTSIDE OF ACTIVE CREEK CHANNEL.

NORTH

30 15 0 30
SCALE 1" = 30

CITY OF SAN LUIS OBISPO

MID-HIGUERA BYPASS

REVEGETATION PLAN

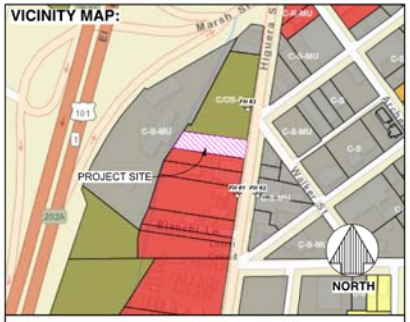
PROJECT TITLE:

SHEET TITLE:

REGISTERED LANDSCAPE ARCHITECT LIC. #4345 ANN S. [illegible] PRELIMINARY NOT FOR CONSTRUCTION OR IMPLEMENTATION (RELEASED) STATE OF CALIFORNIA

DESIGNED BY:	EAS
DRAWN BY:	EAS
CHECKED BY:	EAS
APPROVED BY:	VGH
SCALE:	1" = 40'
DATE:	6/11/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	
SHEET NO.	L-4 of 65

VICINITY MAP:



FIRE HYDRANT LOCATION

THE THREE CLOSEST FIRE HYDRANTS FROM THE SITE IS LOCATED ON :

-FIRE HYDRANT #1: 199 FEET FROM 306 HIGUERA STREET
-FIRE HYDRANT #2 195 FEET FROM 306 HIGUERA STREET
-FIRE HYDRANT #3 376 FEET FROM 306 HIGUERA STREET

PROJECT DESCRIPTION

DEMOLITION OF EXISTING GARAGE STRUCTURE IN ORDER TO MAKE ROOM FOR THE CITY'S CREEK EXPANSION

PROJECT STATISTICS

PROJECT ADDRESS:	306 HIGUERA STREET, SAN LUIS OBISPO, CA 93401	
APN#	002-482-027	
LEGAL DESCRIPTION:	CY SLO BL 61 PTN	
ZONE:	C-R(MU) - RETAIL COMMERCIAL, MIXED-USE OVERLAY	
LOT SIZE (ACRES) :	±0.14 ACRES AC.	(±6,200 S.F.)
SURROUNDING PROPERTY USES:	C/OS-S, C-S-MU, C-R/MU	

BUILDING SUMMARY

USE:	GARAGE, MANUFACTURING	
OCCUPANCY:	F-1, M	
CONSTRUCTION:	I-B	
NUMBER OF STORIES:	ONE	

DEVELOPMENT STANDARDS

MAXIMUM BUILDING HEIGHT:	45'-0"	
MAXIMUM LOT COVERAGE:	100%	
EXISTING STRUCTURE TO BE DEMOLISHED	4,452.60 S.F.	72%
BUILDING HEIGHT:	23'-6"	

SAFETY

1. SPECIAL NOTICE TO CONTRACTORS: ALL CONTRACTORS PERFORMING WORK ON THE PREMISES SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING A REASONABLE AND PRUDENT SAFETY PROGRAM INCLUDING BUT NOT LIMITED TO THE ISOLATION OF WORK AREAS AND THE PROMPT REMOVAL OF ANY DEBRIS OR TOOLS WHICH MIGHT ENDANGER VISITORS AND STAFF OF THE OWNER OR ARCHITECT.

2. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACES, SHORES AND GUYS REQUIRED TO SUPPORT ALL LOADS TO WHICH THE BUILDING STRUCTURES, UTILITIES AND RIGHTS-OF-WAY MAY BE SUBJECTED DURING CONSTRUCTION.

3. THE CONTRACTOR SHALL OBTAIN OSHA PERMITS FOR ANY VERTICAL EXCAVATIONS OVER 5'-0" DEEP INTO WHICH PERSONS MUST DESCEND.

4. DURING THE ENTIRE CONSTRUCTION PERIOD, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CONDITIONS AT THE JOB SITE SO AS TO MEET IN ALL RESPECTS THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT, (OSHA). THIS PROVISION SHALL COVER THE CONTRACTOR'S EMPLOYEES AND ALL OTHER PERSONS WORKING UPON OR VISITING THE SITE. TO THIS END, THE CONTRACTOR SHALL INFORM HIMSELF AND HIS REPRESENTATIVES OF OSHA STANDARDS.

5. "NO TRENCHES OR EXCAVATIONS 5' OR MORE IN DEPTH INTO WHICH A PERSON IS REQUIRED TO DESCEND." OR, OBTAIN NECESSARY PERMIT FROM THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE ISSUANCE OF A BUILDING OR GRADING PERMIT. (HSC 17922.5, EFFECTIVE 3-6-76)

MAINTENANCE STATEMENT

THIS PROJECT DOES NOT ADDRESS ANY SHORT OR LONG TERM MAINTENANCE REQUIREMENTS FOR THE MATERIALS, FINISHES, AND/OR SURFACES SPECIFIED, DETAILED AND INDICATED IN THESE DRAWINGS AND SPECIFICATIONS. IT IS THE RESPONSIBILITY OF OTHERS TO EITHER PROVIDE THIS INFORMATION, OR PROVIDE THE NAMES AND RESOURCES FOR THIS ISSUE. FURTHERMORE, THESE PLANS HAVE NOT BEEN DEVELOPED TO ADDRESS ANY PRIORITY, OR DETERMINATION, OF ANY MAINTENANCE PROGRAM OR PROCESS, OTHER THAN THE INFORMATION SUPPLIED BY OTHERS, THE OWNER AND THEIR AGENTS.

COMMERCIAL USES OF THE SITE AND ON-GOING BUILDING MAINTENANCE AND LANDSCAPING SHALL AT ALL TIMES REMAIN CONSISTENT WITH APPPROVED PLANS AND CONDITIONS OF APPROVAL OF THE ARCHITECTURAL REVIEW APPROVAL FOR THE PROJECT. ANY CHANGE TO THE APPROVED DESIGN OR OTHER CONDITIONS OF APPROVAL MUST BE APPROVED BY THE DIRECTOR, PLANNING COMMISSION AND OR ARCHITECTURAL REVIEW COMMISSION AS DEEMED APPROPRIATE.

AN OPERATION AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OCCUPANT AND/OR OWNER.

DEMOLITION STATEMENT

REMODELING OR DEMOLITION OF PRE-1978 STRUCTURES WITHOUT USING LEAD SAFE WORK PRACTICES IS A VIOLATION OF THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 105256. CONTRACTORS, REMODELERS AND PAINTERS ARE REQUIRED TO USE "LEAD-SAFE" WORK PRACTICES PURSUANT TO TITLE 17, CALIFORNIA CODE OF REGULATIONS SECTION 36050." CONSTRUCTION DEBRIS KNOWN TO CONTAIN LEAD-BASED PAINT MUST BE DISPOSED AT AN APPROVED LOCATION. CONTACT UTILITIES CONSERVATION AT (805) 781-7213.

CONSTRUCTION WASTE REDUCTION, DISPOSAL & RECYCLING

PROVIDE A CONSTRUCTION WASTE MANAGEMENT PLAN TO RECYCLE OR SALVAGE FOR REUSE A MINIMUM OF 65% OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE. (§5.408.1.1 CGBC)

STRUCTURAL OBSERVATION NOTE:

IF APPLICABLE:
STRUCTURAL OBSERVATION SHALL BE OBSERVED AND PERFORMED IN ACCORDANCE TO CBC 1704.6.1(3) FOR THE FOLLOWING CONDITIONS AND CONSTRUCTION:

THE FREQUENCY AND EXTENT OF THE STRUCTURAL OBSERVATION SHALL BE AT THE CONCLUSION OF ALL WORK, BUT PRIOR TO ANY FURTHER OR COMPLETED FINISH WORK WITHIN THE SPECIFIC AREA, AT THE CONCLUSION OF ALL STRUCTURAL OBSERVATION WORK. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MAD END IDENTIFY ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

1. THE ARCHITECT SHALL BE CONSULTED IN ALL CASES WHERE CUTTING INTO AN EXISTING STRUCTURAL PORTION OF ANY BUILDING IS EITHER EXPEDIENT OR NECESSARY, PRIOR TO PROCEEDING WITH WORK. REINFORCEMENT AND/OR SUPPORT SATISFACTORY TO ARCHITECT AND STRUCTURAL ENGINEER SHALL BE PROVIDED BY CONTRACTOR PRIOR TO CUTTING INTO STRUCTURAL PORTIONS OF ANY BUILDING.

2. CONTRACTOR SHALL VERIFY ALL COLUMN COORDINATES AND CHECK THEM AGAINST DIMENSIONS SHOWN ON PLANS AND DETAILS. CONSTRUCTION MANAGER SHOULD BE NOTIFIED OF ANY DISCREPANCIES DURING STAKING.

SPECIAL INSPECTION NOTE:

THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1704A. 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.

LEAD-SAFE NOTE:

REMODELING OR DEMOLITION OF PRE-1978 STRUCTURES WITHOUT USING LEAD-SAFE WORK PRACTICES IS A VIOLATION OF THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 105256. CONTRACTORS, REMODELERS, AND PAINTERS ARE REQUIRED TO USE LEAD-SAFE WORK PRACTICES PURSUANT TO TITLE 17, CALIFORNIA CODE OF REGULATIONS SECTION 36050. CONSTRUCTION DEBRIS KNOWN TO CONTAIN LEAD BASE PAINT MUST BE DISPOSED OF AT AN APPROVED LOCATION. (§ 107.2 CBC)

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE LOCALLY ADOPTED BUILDING CODES AND ORDINANCES, THE NATIONAL TRADE ORGANIZATIONS AND THE PRODUCT MANUFACTURER'S RECOMMENDATIONS. IN THE EVENT OF CONFLICT, THE MOST STRINGENT SHALL APPLY. AT A MINIMUM, THIS PROJECT SHALL COMPLY WITH THE 2022 EDITIONS OF THE:

CALIFORNIA BUILDING CODE VOLS 1&2
CALIFORNIA MECHANICAL CODE
CALIFORNIA PLUMBING CODE
CALIFORNIA ELECTRIC CODE
CALIFORNIA GREEN BUILDING STANDARDS CODE
CALIFORNIA ENERGY CODE (CENC)
CALIFORNIA EXISTING BUILDING CODE

AND ALL AMENDMENTS TO THE CA CODES ADOPTED BY THE **CITY OF SAN LUIS OBISPO** AND ALL OTHER CODES, REGULATIONS, AND APPROVALS ESTABLISHED BY THE **CITY OF SAN LUIS OBISPO**

2. CONTRACTOR SHALL VERIFY AND COORDINATE ALL NEW AND EXISTING CONDITIONS AND DIMENSIONS AT JOB SITE FOR COMPARISON WITH DRAWINGS AND SPECIFICATIONS PRIOR TO BIDDING AND START OF AND DURING CONSTRUCTION. IF ANY DISCREPANCIES, INCONSISTENCIES OR OMISSIONS ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED, IN WRITING FOR CLARIFICATION PRIOR TO PROCEEDING WITH WORK.

3. DO NOT SCALE DRAWINGS, CONTRACTOR SHALL RELY ON WRITTEN DIMENSIONS AS GIVEN. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR CLARIFICATIONS. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR AND COORDINATED WITH ALL OF THE WORK OF ALL TRADES. IF DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING FOR CLARIFICATION BEFORE THE COMMENCEMENT OR RESUMPTION OF WORK.

4. ABBREVIATIONS THROUGHOUT THE PLANS ARE THOSE IN COMMON USE. NOTIFY THE ARCHITECT OF ANY ABBREVIATIONS IN QUESTION.

5. DIMENSIONS SHOWN ON FLOOR PLANS, SECTIONS, ELEVATIONS, AND DETAILS ARE TO FINISH FACE OF STUD, MASONRY, OR CONCRETE, GRIDLINES OR CENTERLINES OF STEEL, UNLESS OTHERWISE NOTED.

6. IN THE CASE OF A CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, SPECIFICATIONS SHALL TAKE PRECEDENCE. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY CONFLICT BEFORE PROCEEDING WITH THE WORK.

7. THE SPECIFICATIONS AND ALL CONSULTANT DRAWINGS ARE SUPPLEMENTAL TO THE ARCHITECTURAL DRAWINGS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF ANY OF THE CONSULTANT'S WORK AND TO BRING ANY DISCREPANCIES OR CONFLICTS TO THE ARCHITECT'S ATTENTION IN WRITING. FOR CLARIFICATION. IMPROPERLY INSTALLED WORK SHALL BE CORRECTED BY THE SUB-CONTRACTOR AT HIS EXPENSE AND AT NO EXPENSE TO THE ARCHITECT, HIS CONSULTANTS, OR THE OWNER.

8. FINAL CLEAN UP AND DISPOSAL:
REMOVE DEBRIS, RUBBISH AND WASTE MATERIAL FROM THE OWNER'S PROPERTY TO A LAWFUL DISPOSAL AREA AND PAY ALL HAULING AND DUMPING COSTS. CONFORM TO PERTAINING FEDERAL STATE AND LOCAL LAWS, REGULATIONS AND ORDERS UPON COMPLETION OF WORK. ALL CONSTRUCTION AREAS SHALL BE LEFT VACUUM OR BROOM CLEAN AND FREE FROM DEBRIS, CLEAN ALL DUST, DIRT, STAINS, HAND MARKS, PAINT SPOTS, DROPPINGS, AND OTHER BLEMISHES.

9. IF THE CONTRACTOR ASCERTAINS AT ANY TIME THAT REQUIREMENTS OF THIS CONTRACT ARE IN VIOLATION OF APPLICABLE LAWS, CODES, REGULATIONS AND ORDINANCES, HE SHALL NOT PROCEED WITH WORK IN QUESTION, EXCEPT AT HIS OWN RISK, UNTIL ARCHITECT HAS BEEN NOTIFIED IN WRITING AND WRITTEN DETERMINATION IS MADE BY THE ARCHITECT. WHERE COMPLETED OR PARTIALLY COMPLETED WORK IS DISCOVERED TO BE IN VIOLATION WITH APPLICABLE LAWS, CODES, REGULATIONS AND ORDINANCES, CONTRACTOR SHALL BE REQUIRED TO REMOVE THAT WORK FROM THE PROJECT AND REPLACE SUCH WORK WITH ALL NEW COMPLYING WORK AT NO ADDITIONAL COST TO THE OWNER OR ARCHITECT.

10. ANY WORK INSTALLED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE SUB-CONTRACTOR AT HIS EXPENSE AND AT NO ADDITIONAL EXPENSE TO THE OWNER, ARCHITECT, OR CONSULTANTS.

11. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION AND SERVICES NECESSARY FOR THE SATISFACTORY COMPLETION OF WORK UNLESS DESIGNATED (N.I.C.) NOT IN CONTRACT OR (O.F.I.) OWNER FURNISHED & INSTALLED. ALL EQUIPMENT, WORK AND MATERIALS SHALL COMPLY WITH ALL CURRENT AND LOCAL APPLICABLE CODES AND GOVERNING REGULATIONS, AND THE CONTRACT DOCUMENTS.

12. THE CONTRACTOR SHALL PROTECT ALL FINISH WORK AND SURFACES FROM DAMAGE DURING THE COURSE OF CONSTRUCTION AND SHALL REPLACE AND/OR REPAIR ALL DAMAGED SURFACES CAUSED BY CONTRACTOR OR SUBCONTRACTOR PERSONNEL TO THE SATISFACTION OF THE OWNER AND ARCHITECT.

13. ONLY NEW MATERIALS AND EQUIPMENT OF RECENT MANUFACTURE, OF QUALITY SPECIFIED, FREE FROM DEFECTS, WILL BE PERMITTED ON THE WORK.

14. TEMPORARY FACILITIES:
A. THE CONTRACTOR SHALL MAKE NECESSARY CONNECTIONS TO EXISTING UTILITIES FOR TEMPORARY POWER AND WATER SUPPLIES, AND SHALL COORDINATE SUCH USE WITH THE OWNER PRIOR TO CONNECTION.

15. DRAWINGS OF EXISTING CONDITIONS HAVE BEEN COMPILED FROM EXISTING DATA SUPPLIED BY THE OWNER TO THE ARCHITECT. THE ARCHITECT MAKES NO WARRANTY EITHER EXPRESSED OR IMPLIED, FOR THE ACCURACY OR COMPLETENESS OF THE EXISTING CONDITIONS. NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES FOR CLARIFICATION PRIOR TO PROCEEDING WITH WORK.

16. STRUCTURAL OBSERVATION (IF REQUIRED) SHALL BE PERFORMED BY THE PROJECT ARCHITECT OR ENGINEER OF RECORD.

17. NO HAZARDOUS MATERIALS WILL BE STORED AND / OR USED WITHIN THE BUILDING WHICH EXCEED THE QUANTITIES LISTED IN CBC TABLE 414.2.5(1).

CODE COMPLIANCE

CODES: ALL CONSTRUCTION SHALL CONFORM TO THE FOLLOWING CODES:

-2022 CALIFORNIA BUILDING CODE (**CBC**), BASED ON THE **2021 IBC**
-2022 CALIFORNIA MECHANICAL CODE (**CMC**), BASED ON THE **2021 UMC**
-2022 CALIFORNIA PLUMBING CODE (**CPC**), BASED ON THE **2021 UPC**
-2022 CALIFORNIA ELECTRICAL CODE (**CEC**), BASED ON THE **2021 NEC**
-2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (**CALGREEN**)
-2022 CALIFORNIA ENERGY CODE
-2022 CALIFORNIA FIRE CODE (**CFC**), BASED ON THE **2020 IFC**
-2022 CALIFORNIA HEALTH AND SAFETY CODE (**H&SC**)
-2022 CALIFORNIA BUSINESS AND PROFESSIONS CODE (**B&PC**)
-NATIONAL FIRE PROTECTION ASSOCIATIONS STANDARDS (**NFPA**)
-PROJECT CONDITIONS OF APPROVAL
-CITY OF SAN LUIS OBISPO STANDARD CONDITIONS, MUNICIPAL CODES, AMENDMENTS AND SELECTED CODE REQUIREMENTS ON FILE AT THE COMMUNITY DEVELOPMENT DEPARTMENT, PLANNING AND BUILDING DIVISION
-ALL OTHER CODES AND ORDINANCES ADOPTED BY THE **CITY OF SAN LUIS OBISPO** AGENCIES HAVING JURISDICTION OVER THIS PROJECT

CITY OF SAN LUIS OBISPO

MID-HIGUERA BYPASS

306 HIGUERA ST.- DEMOLITION PLAN NOTES

PROJECT TITLE:

SHEET TITLE:

LICENSED ARCHITECT
OSCAR LEE HUNTER
C-38575
10-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

DESIGNED BY:	DLH
DRAWN BY:	LH
CHECKED BY:	DLH
APPROVED BY:	
SCALE:	
DATE:	5/30/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	
SHEET NO.	A-1 of 65

GENERAL ARCHITECTURAL NOTES:

1. **PENETRATION OF FIRE - RESISTANT WALLS,** FLOOR CEILINGS AND ROOF CEILINGS SHALL BE PROTECTED AS REQUIRED IN **2022 CBC SECTIONS 709 AND 710.**
2. **WALL AND CEILING MATERIALS** SHALL NOT EXCEED THE FLAME SPREAD & SMOKE-DEVELOPED INDEXES IN **2022 CBC 803.1**
3. **MINIMUM HEADROOM CLEARANCE FOR STAIRWAY** SHOULD BE NO LESS THAN 6' 8". THIS MEASUREMENT IS FROM A PLANE TANGENT TO THE STAIRWAY TREAD NOSING.
4. **ENCLOSED USABLE SPACE UNDER INTERIOR STAIRWAY** IS TO BE PROTECTED ON THE ENCLOSED SIDE WITH (1) ONE LAYER 5/8" TYPE 'X' GYP. WALLBOARD W/ 2 @ 16" O.C. NAILERS @ EDGE / FIELD (SOLID BLOCKED CONTINUOUS).
5. NO CONSTRUCTION **MATERIALS CONTAINING ASBESTOS** MAY BE USED ON THIS PROJECT.
6. **ALL INTERIOR FINISHES,** CHOSEN BY THE OWNER, MUST CONFORM TO THE REQUIREMENTS OF **CHAPTER 8 OF THE 2022 CBC**
7. THE OWNER IS TO SECURE THE **PROPER OCCUPANCY PERMITS** PRIOR TO OCCUPYING THE BUILDING.
8. **ALL EXTERIOR SWINGING DOORS AND WINDOWS** SHALL BE COMPLETELY WEATHER STRIPPED.
9. **ALL SHOWER HEADS, LAVATORIES AND SINK FAUCETS** SHALL BE EQUIPPED WITH DEVICES TO RESTRICT WATER FLOW COMPLY WITH APPLICABLE CAL GREEN MANDATORY MEASURES
10. **SAFETY GLAZING (PER 2022 CBC)** IN AREAS SUBJECT TO HUMAN IMPACT.
11. **ALL EXTERIOR AND INTERIOR DOORS** SHALL BE STANDARD HEIGHT (6'-8") U.N.O SET ALL FRAMES TRUE AND PLUMB. FIT ALL DOORS HARDWARE AND REMOVE FOR PAINTING AND STAINING. MAX. FLOOR LEVEL CHANGE IS 1/2" (INCLUDING THRESHOLD) @ ALL EXTERIOR DOORS TO LANDING U.N.O.
12. **ALL STAIRWAYS SHALL HAVE A LANDING** (MEASURED IN THE DIRECTION OF TRAVEL) EQUAL TO OR GREATER THAN THE WIDTH OF THE STAIRWAY (TO 44" MAX.)
13. **ALL WATER CLOSET COMPARTMENTS** SHALL BE MIN. 30" CLEAR (WIDTH) AND HAVE MIN. 24" CLEAR FROM FRONT OF THE WATER CLOSET.
14. **WALL SURFACES BEHIND CERAMIC TILE** OR OTHER FINISH MATERIALS SHALL BE CONSTRUCTED OF A MATERIAL NOT ADVERSELY AFFECTED BY WATER RESISTANT GYP. BOARD. NO W.R.G.B SHALL BE INSTALLED ON ANY CEILINGS.
15. **ANY FLOOR AREAS TO RECEIVE CARPET** AND PAD OR RESILIENT FLOORING (VINYL) SHALL BE LEFT CLEAN, DRY, AND DUST FREE.
16. **ALL CONCEALED PLUMBING JOINTS** SHALL BE NON – SLIP CONNECTIONS.
17. **NEW WATER CLOSETS & ASSOCIATED FLUSHOMETER VALVES,** IF ANY, SHALL HAVE A MAXIMUM OF 1.6 GALLONS PER FLUSH AND SHALL MEET PERFORMANCE STANDARDS ESTABLISHED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE STANDARD A112.19.2, H&S CODE.
18. **WATER PRESSURE** IN BUILDINGS SHALL BE LIMITED TO 80 PSI OR LESS.
19. **ALL PLUMBING WALLS** SHALL BE 2X6 STUDS.
20. **ALL WINDOWS AND SLIDING AND SWINGING GLASS DOORS** SHALL BE DUAL GLAZED UNLESS NOTED OTHERWISE.

SUB-CONTRACTOR REPRESENTATION

1. EACH SUB-CONTRACTOR SHALL THOROUGHLY EXAMINE AND BE FAMILIAR WITH THE DRAWINGS AND RELATED SPECIFICATIONS.
2. THE BID SUBMITTAL, BY THE SUB-CONTRACTOR, REPRESENTS THAT HE IS FAMILIAR WITH THE LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, AND FULLY UNDERSTANDS THE FACILITIES, DIFFICULTIES AND RESTRICTIONS RELATED TO THE EXECUTION OF THE WORK FOR THIS PROJECT.
3. THE FAILURE OF OMISSION OF ANY SUB-CONTRACTOR TO RECEIVE OR EXAMINE ANY FORM, INSTRUMENT, OR OTHER DOCUMENT, OR TO VISIT THE SITE AS NECESSARY , AND BECOME ACQUAINTED WITH THE EXISTING CONDITIONS, SHALL IN NO WAY RELIEVE THEM FROM THEIR OBLIGATIONS WITH RESPECT TO THEIR BID OR THE CONTRACT. NO ADDITIONAL CHARGES WILL BE ALLOWED BECAUSE OF LACK OF SUCH KNOWLEDGE. THE SUBMISSION OF THE SUB-CONTRACTOR'S BID SHALL BE TAKEN AS PRIMA FACIE EVIDENCE OF COMPLIANCE WITH THIS CONDITION.
4. EACH SUB-CONTRACTOR SHALL BE TOTALLY FAMILIAR WITH PERTINENT RULES AND REGULATIONS OF GOVERNMENT BODIES HAVING JURISDICTION, STATE OF LABOR, MATERIALS MARKETS, AND SHALL MAKE DUE ALLOWANCE FOR ALL CONTINGENCIES. NO ADDITIONAL CHARGES WILL BE ALLOWED BECAUSE OF LACK OF SUCH KNOWLEDGE. THE SUBMISSION OF THE SUB-CONTRACTOR'S BID SHALL BE TAKEN AS PRIMA FACIE EVIDENCE OF COMPLIANCE WITH THIS CONDITION.
5. THE SUB-CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING THEIR BIDS AND VERIFY ALL EXISTING CONDITIONS.
6. THE SUB-CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE BEGINNING ANY WORK AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
7. THE SUB-CONTRACTOR SHALL FIELD CERTIFY ALL ELEVATIONS, FLOW LINES AND POINTS OF CONNECTIONS BEFORE BEGINNING WORK AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
8. AT COMMENCEMENT OF WORK THE SUB-CONTRACTORS ACCEPTS RESPONSIBILITY FOR ALL EXISTING CONDITIONS.

COMPLIANT V.O.C. LIMIT FINISH MATERIAL

THE CONTRACTOR SHALL PROVIDE DOCUMENTATION TO VERIFY THAT COMPLIANT VOC LIMIT FINISH MATERIALS HAVE BEEN USED, PER THE FOLLOWING:

1. DUCT OPENINGS AND OTHER RELATED AIR DISTRIBUTION COMPONENTS OPENINGS SHALL BE COVERED DURING CONSTRUCTION.
2. ADHESIVES, SEALANTS AND CAULKS SHALL BE COMPLIANT WITH VOC AND OTHER TOXIC COMPOUND LIMITS.
3. PAINTS, STAINS AND OTHER COATINGS SHALL BE COMPLIANT WITH PRODUCT WEIGHTED MIR LIMITS FOR ROC AND OTHER TOXIC COMPOUNDS
4. AEROSOL PAINTS AND COATINGS SHALL BE COMPLIANT WITH PRODUCT-WEIGHTED MIR LIMITS FOR ROC AND OTHER TOXIC COMPOUNDS.
5. DOCUMENTATION SHALL BE PROVIDED TO VERIFY THAT COMPLIANT VOC LIMIT FINISH MATERIALS HAVE BEEN USED
6. CARPET AND CARPET SYSTEMS SHALL BE COMPLIANT WITH VOC LIMITS. 50% OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH THE VOC-EMISSION LIMITS DEFINED IN THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) LOW-EMITTING MATERIALS LIST OR BE CERTIFIED UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOORSCORE PROGRAM.
7. PARTICLE BOARD, MEDIUM DENSITY FIBERBOARD (MDF) AND HARDWOOD PLYWOOD USED IN INTERIOR FINISH SYSTEMS SHALL COMPLY WITH LOW FORMALDEHYDE EMISSION STANDARDS.

GENERAL CONSTRUCTION REQUIREMENTS

1. **CODES:** ALL CONSTRUCTION SHALL CONFORM TO THE FOLLOWING CODES:
   -2022 CALIFORNIA BUILDING CODE (**CBC**), BASED ON THE **2021 IBC**
   -2022 CALIFORNIA MECHANICAL CODE (**CMC**), BASED ON THE **2021 UMC**
   -2022 CALIFORNIA PLUMBING CODE (**CPC**), BASED ON THE **2021 UPC**
   -2022 CALIFORNIA ELECTRICAL CODE (**CEC**), BASED ON THE **2020 NEC**
   -2022 CALIFORNIA GREEN BUILDING STANDARDS CODE **(CALGREEN)**
   -2022 CALIFORNIA ENERGY CODE
   -2022 CALIFORNIA FIRE CODE (**CFC**), BASED ON THE **2021 IFC**
   -2022 CALIFORNIA HEALTH AND SAFETY CODE **(H&SC)**
   -2022 CALIFORNIA BUSINESS AND PROFESSIONS CODE **(B&PC)**
   -NATIONAL FIRE PROTECTION ASSOCIATIONS STANDARDS **(NFPA)**
   -PROJECT CONDITIONS OF APPROVAL
   -CITY OF SAN LUIS OBISPO STANDARD CONDITIONS, MUNICIPAL CODES, AMENDMENTS AND SELECTED CODE REQUIREMENTS ON FILE AT THE COMMUNITY DEVELOPMENT DEPARTMENT, PLANNING AND BUILDING DIVISION
   -ALL OTHER CODES AND ORDINANCES ADOPTED BY THE **CITY OF SAN LUIS OBISPO** AGENCIES HAVING JURISDICTION OVER THIS PROJECT
2. LARGER SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER SCALE ONES. DETAILS SHALL TAKE PRECEDENCE OVER PLANS AND SECTIONS.
3. **DO NOT SCALE DRAWINGS!!!** WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALE OF DRAWINGS. DIMENSIONS ARE TO FACE OF FOOTING OR FACE OF STUDS, UNLESS OTHERWISE NOTED.
4. NOTES ON DRAWINGS SHALL TAKE PRECEDENCE OVER SEPARATE SPECIFICATIONS.
5. TYPICAL DETAILS SHALL APPLY TO ALL POSSIBLE CONDITIONS U.N.O. TYPICAL DETAILS AND TYPICAL NOTES ARE MINIMUM REQUIREMENTS TO BE USED WHEN SPECIFIC CONDITIONS ARE NOT USED OTHERWISE.
6. THIS SET OF PLANS SHALL BE ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPROVED PLANS. NO CHANGES OR REVISIONS TO THE APPROVED PLANS OR SPECIFICATIONS SHALL BE PERMITTED UNLESS SUBMITTED TO AND APPROVED BY THE BUILDING OFFICIAL. THE ISSUANCE OF A PERMIT SHALL NOT PREVENT THE BUILDING OFFICIAL FROM REQUIRING THE CORRECTION OF ERRORS OR OMISSIONS FROM THE APPROVED PLANS AND SPECIFICATIONS. **(2022 CBC)**
7. ALL REASONABLE EFFORT SHALL BE MADE BY THE CONTRACTOR TO MINIMIZE NOISE AND OTHER ADVERSE IMPACTS ON THE OPERATION OF ADJACENT BUSINESSES AND RESIDENCES. ALL CONSTRUCTION PARKING AND DELIVERIES SHALL BE CONFINED TO THE SITE.
8. NO WORK SHALL BE PERFORMED FROM THESE CONTRACT DOCUMENTS UNTIL THEY ARE APPROVED BY THE APPROPRIATE REGULATORY AGENCIES.
9. VERIFICATION: THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL GRADES, FLOW LINES, POINTS OF CONNECTIONS AND DIMENSIONS PRIOR TO START OF CONSTRUCTION. ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR CHANGES IN PLANS. DEVIATIONS BY CONTRACTORS ARE DONE AT CONTRACTOR'S OWN RISK. IN THE EVENT OF ANY FURTHER DATA, INFORMATION OR CLARIFICATION OF THESE DRAWINGS IS REQUIRED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE ARCHITECT & INFORM HIM OF ANY AMBIGUITY, INCONSISTENCY, DISCREPANCY, OR ERROR FOUND WITHIN THIS SET OF DRAWINGS BEFORE CONTINUING WITH CONSTRUCTION.
10. THE ISSUANCE OR GRANTING OF A PERMIT OR APPROVAL OF PLANS, SPECIFICATIONS AND COMPUTATIONS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE CODES OR OF ANY OTHER ORDINANCE OF THIS JURISDICTION. PERMITS PRESUMING TO GIVE AUTHORITY TO VIOLATE OR CANCEL THE PROVISIONS OF THIS CODE OR OTHER ORDINANCES OF THIS JURISDICTION SHALL NOT BE VALID. **(2022 CBC)**
11. ALL MATERIALS AND WORKMANSHIP SHALL BE NEW AND THE BEST OF ITS CLASS AND KIND.
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT DETAILS REQUIRED BY THE VARIOUS CODES, BUT NOT SPECIFICALLY IN THESE PLANS, BE COMPLETED ACCORDING TO THE CODES.
13. CONTRACTOR SHALL FOLLOW ALL APPLICABLE INDUSTRIAL SAFETY REGULATIONS. THE LOCAL GOVERNING AGENCY, OWNER, ARCHITECT OR ENGINEER ARE NOT RESPONSIBLE FOR THE OVERALL COORDINATION & MANAGEMENT OF WORK.
14. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE SHOWN, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. EACH CONTRACTOR SHALL SUPERVISE AND DIRECT HIS WORK AND BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS AND PROCEDURES IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES.
15. WHERE A MANUFACTURER IS INDICATED FOR A SPECIFIC ITEM, INSTALL SUCH SPECIFIED ITEM PER MANUFACTURER'S RECOMMENDATIONS.
16. ALL TRADE NAMES SPECIFIED ON ANY DRAWINGS, MAY BE CHANGED FOR ANOTHER APPROVED EQUAL UPON THE EXPRESSED APPROVAL OF THE ARCHITECT.
17. ALL SUBCONTRACTORS, RELATED TRADES AND SUPPLIES SHALL COOPERATE AND PROVIDE AN OVERALL MANAGEMENT OF TIME AND WORK PROGRESS SO AS NO DELAYS OR LOSS OF TIME WILL OCCUR. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE OVERALL COORDINATION OF THE GENERAL CONTRACTOR.
18. CLEAN – UP. EACH CONTRACTOR SHALL CLEAN UP AND REMOVE FROM THE SITE ALL WASTE MATERIALS AND DEBRIS WHICH MAY BE ACCUMULATE ON THE SITE OR IN THE BUILDING. FINAL CLEAN – UP OF ALL SURFACES AND REMOVAL OF FOREIGN SUBSTANCES FROM THE JOB SITE IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
19. DUST CONTROL SHALL BE MAINTAINED TO THE SATISFACTION OF THE AGENCY OF RECORD
20. THE BID SUBMITTAL, BY THE CONTRACTOR, REPRESENTS THAT HE IS FAMILIAR WITH THE LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, AND FULLY UNDERSTANDS THE FACILITIES, DIFFICULTIES AND RESTRICTIONS RELATED TO THE EXECUTION OF THE WORK FOR THIS PROJECT.
21. SUB-CONTRACTOR SHALL PROVIDE TITLE 24-APPROVALS & GUARANTEES FOR ALL ASSEMBLIES
22. IN THE EVENT OF FOUND MATERIALS SUSPECTED TO BE OF AN ARCHAEOLOGICAL OR PALEONTOLOGICAL NATURE, ALL GRADING AND EXCAVATION SHALL CEASE IN THE IMMEDIATE AREA AND THE APPROPRIATE AUTHORITIES TO BE NOTIFIED BY THE CONTRACTOR. ANY FINDS SHALL BE LEFT UNTOUCHED UNTIL AN EVALUATION BY A QUALIFIED ARCHAEOLOGIST OR PALEONTOLOGIST IS PERFORMED.
23. ALL CONTRACTORS AND SUB-CONTRACTORS MUST HAVE ON FILE WITH THE BUILDING DEPARTMENT, A LIST OF ALL SUCH CONTRACTORS AND SUB-CONTRACTORS WITH APPROPRIATE CURRENT CITY BUSINESS LICENSE NUMBERS.
24. ALL SUB TRADES AND MATERIAL SUPPLIERS SHALL HAVE, IN PLACE, AN APPROVED OSHA SAFETY PLAN PRIOR TO PERFORMING WORK OR VISITING THE BUILDING SITE
25. BUILDING, STRUCTURES AND APPLICATIONS, EXCEPT AS MODIFIED BY LOCAL ORDINANCE PURSUANT TO , THE FOLLOWING STANDARDS IN THE **2022 CALIFORNIA CODE OF REGULATIONS, TITLE 24, PARTS 2, 3, 4, 5, 6, 9 AND 10** SHALL APPLY TO ALL OCCUPANCIES AND APPLICATIONS.

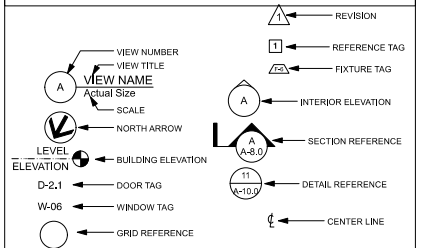
GENERAL NOTES

1. APPLICABLE CODES AND STANDARDS:
2. ALL WORK DESCRIBED IN THE DRAWINGS SHALL BE VERIFIED FOR DIMENSION, GRADE, EXTENT AND COMPATIBILITY WITH EXISTING SITE CONDITIONS. ANY DISCREPANCIES AND UNEXPECTED CONDITIONS THAT AFFECT OR CHANGE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY. DO NOT PROCEED WITH THE WORK IN THE AREA OF DISCREPANCIES UNTIL ALL SUCH DISCREPANCIES ARE RESOLVED. IF THE CONTRACTOR CHOOSES TO DO SO, HE/SHE SHALL BE PRECEDING AT HIS/HER OWN RISK.
4. DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER DRAWING SCALE OR PROPORTION. LARGER SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.
5. IN THE EVENT OF THE UNFORESEEN ENCOUNTER OF MATERIALS SUSPECTED TO BE OF AN ARCHAEOLOGICAL OR PALEONTOLOGICAL NATURE, ALL GRADING AND EXCAVATION SHALL CEASE IN THE IMMEDIATE AREA AND THE THE CONTRACTOR SHALL NOTIFY THE OWNER. THE FIND SHALL BE LEFT UNTOUCHED UNTIL AN EVALUATION BY A QUALIFIED ARCHAEOLOGIST OR PALEONTOLOGIST IS MADE.
6. CONTRACTOR IS TO BE RESPONSIBLE FOR BEING FAMILIAR WITH THESE DOCUMENTS INCLUDING ALL CONTRACT REQUIREMENTS.
7. SHOP WELDS MUST BE PERFORMED BY A LICENSED FABRICATOR'S SHOP.
8. OSHA PERMITS REQUIRED FOR VERTICAL CUTS 5' OR OVER.
9. CONTRACTOR TO PROVIDE COMPLETE DETAILS OF ENGINEERED TEMPORARY SHORING OR SLOT CUTTING PROCEDURES ON PLANS. CALL FOR INSPECTION BEFORE EXCAVATION BEGINS.
10. CONTRACTOR TO REVIEW CALIFORNIA GREEN CODE REQUIREMENTS FOR CONTRACTOR REQUIREMENTS.
11. PROVIDE FIRE ALARM SYSTEM. FIRE ALARM SYSTEM SHALL ACTIVATE UPON FIRE SPRINKLER SYSTEM OPERATION

ABBREVIATIONS

A.B.	ANCHOR BOLT	FHC	FIRE HOSE CABINET	PG	PAINT GRADE
ABV.	ABOVE	FIN.	FINISH	PL.	PLATE
ACOUS.	ACOUSTICAL	FLASH.	FLASHING	PLAM	PLASTIC LAMINATE
A.D.	AREA DRAIN	FLR	FLOOR	PLAS	PLASTER
ADA	AMERICANS W/ DIS. ACT	FLUOR	FLUORESCENT	PLYWD.	PLYWOOD
		F.O.	FACE OF	PR	PAIR
ADJ	ADJUSTABLE	F.O.C.	FACE OF CONCRETE	PTD	PAINTED
A.F.F.	ABOVE FINISH FLOOR	F.O.F.	FACE OF FINISH	PT	PRESSURE TREATED
		F.O.S.	FACE OF STUD	P.T.R.	PRESSURE THERMOSTATIC RELEASE
ALT	ALTERNATE	FT.	FOOT OR FEET		
ALUM	ALUMINUM	FTG.	FOOTING	R.	RISER
APPROX.	APPROXIMATE	FURR.	FURRING	R	RETURN
ARCH.	ARCHITECT/ARCHITECTURAL	FUT.	FUTURE	RAD	RADIUS
		G.	GAS	RCP	REFLECTED CEILING PLAN
BALC	BALCONY	GA.	GAUGE	RD	ROOF DRAIN
BD.	BOARD	GAL	GALLON	RE	REFER
BET	BETWEEN	GALV.	GALVANIZED	REBAR	REINFORCING BAR
BLDG.	BUILDING	G.B.	GRAB BAR	REF	REFRIGERATOR
BLK.	BLOCK	GC	GENERAL CONTRACTO	REINF	REINFORCED
BLKG.	BLOCKING	GL	GLASS	REQD.	REQUIRED
BM.	BEAM	GND.	GROUND	RESIL	RESILIENT
BOT.	BOTTOM	GSM	GALVANIZED SHEET METAL	RM.	ROOM
B.O.W.	BOTTOM OF WALL			RND.	ROUND
BRKT	BRACKET	GYP.	GYPSUM	R.O.	ROUGH OPENING
BULKHD	BULKHEAD	H.B.	HOSE BIB	RTU	ROOF TOP UNIT (MECH)
BUR	BUILT UP ROOF	H.C.	HOLLOW CORE	S.	SOUTH
C.G.	CORNER GUARD	HDR	HEADER	S.C.	SOLID CORE
C/L	CENTER LINE	HDWD	HARDWOOD	SCHED	SCHEDULE
CAB	CABINET	HDWR	HARDWARE	SCUP	SCUPPER
CALK	CAULKING	HNDRL.	HANDRAIL	SEAL	SEALANT
CEM	CEMENT	HM	HOLLOW METAL	SECT	SECTION
CER	CERAMIC	HORIZ	HORIZONTAL	SF	SQUARE FOOT
C.JT.	CONTROL JOINT	HR	HOUR	SHT	SHEET
CLG.	CEILING	HT.	HEIGHT	SIM.	SIMILAR
CLOS	CLOSET	H.W.	HOT WATER	SIP	STRUCTURAL INSULATED PANEL
CLR.	CLEAR	H.W.H.	HOT WATER HEATER		
CO.	CLEAN OUT	I.D.	INSIDE DIAMETER	SPEC.	SPECIFICATION
COL.	COLUMN	INC.	INCANDESCENT	SQ.	SQUARE
CONC.	CONCRETE	INFO.	INFORMATION	S.S	STAINLESS STEEL
CONT	CONTINUOUS	INSUL.	INSULATION	S.S.D.	SEE STRUCTURAL DRAWINGS
CPT	CARPET	INT.	INTERIOR		
C.T.	CERAMIC TILE	JAN.	JANITOR	STD	STANDARD
C.W.	COLD WATER	JH.	JOIST HANGER	STL	STEEL
DBL	DOUBLE	JST	JOIST	STOR	STORAGE
DEPT.	DEPARTMENT	JT.	JOINT	STRUCT	STRUCTURAL
DET.	DETAIL	LAM	LAMINATE	SUSP	SUSPENDED
D.F.	DOUGLAS FIR	LAV.	LAVATORY	SYM	SYMMETRICAL
DIA.	DIAMETER	LB(S)	POUNDS	T	TREAD
DIM.	DIMENSION	LDG	LANDING	T & B	TOP AND BOTTOM
DN.	DOWN	LT	LIGHT	T & G	TONGUE AND GROOVE
DR	DOOR	MAX.	MAXIMUM	TEL	TELEPHONE
DRL	DRAINLINE	M.B.	MACHINE BOLT	TER	TERRAZZO
DS.	DOWNSPOUT	MECH.	MECHANICAL	THK	THICK
D.S.T.	DRY STANDPIPE	MEMB	MEMBRANE	THR	THRESHOLD
DWG.	DRAWING	MFR.	MANUFACTURER	T.O.	TOP OF
(E)	EXISTING	MIN.	MINIMUM	T.O.P.	TOP OF PLATE
E.	EAST	MIR.	MIRROR	T.O.C.	TOP OF CONCRETE
EA.	EACH	MISC.	MISCELLANEOUS	T.O.W.	TOP OF WALL
E.G.	EXISTING GRADE	MO	MASONRY OPENING	TYP.	TYPICAL
EIFS	EXTERIOR INSULATION & FINISH SYSTEM	MTD.	MOUNTED	UC	UNDERCUT
		MTL	METAL	UNFIN	UNFINISHED
ELEC	ELECTRICAL	(N)	NEW	U.N.O.	UNLESS NOTED OTHERWISE
ELEV	ELEVATION	N.	NORTH	U.O.N.	UNLESS OTHERWISE NOTED
EMER	EMERGENCY	N.I.C.	NOT IN CONTRACT	UTIL	UTILITY
ENCL	ENCLOSURE	NO. or #	NUMBER	VCT	VINYL COMPOSITION TILE
EOS	EDGE OF SLAB	NOM	NOMINAL	VERT	VERTICAL
EQ.	EQUAL	N.T.S.	NOT TO SCALE	V.I.F.	VERIFY IN FIELD
EQUIP	EQUIPMENT	O/	OVER	VTR	VENT TO ROOF
ETR	(E) TO REMAIN	OA	OVERALL	VWC	VINYL WALL COVERING
EW	EACH WAY	O.C.	ON CENTER	W.	WEST
EXP. JT.	EXPANSION JOINT	O.D.	OUTSIDE DIAMETER	W/	WITH
F.A.	FIRE ALARM	OFF	OFFICE	W/O	WITHOUT
FAP	FIRE ANNUNCIATOR PANEL	OA	OVERALL	WC	WATERCLOSET
		O.C.	ON CENTER	WD	WOOD
F.D.	FLOOR DRAIN	O.D.	OUTSIDE DIAMETER	WIN	WINDOW
FDN.	FOUNDATION	OFF	OFFICE	WD	WOOD
F.E.	FIRE EXTINGUISHER	OH	OPPOSITE HAND	WIN	WINDOW
F.E.C.	FIRE EXTINGUISHER CABIN	O.P.	OVERFLOW PIPE	WP	WATERPROOF
		OPG	OPENING	WS	WETSTACK
F.F.	FINISH FLOOR	OPP	OPPOSITE	WSCT	WAINSCOT
FG	FINISH GRADE	PART.	PARTITION	WT	WEIGHT
FH	FIRE HYRANT	PERM	PERIMETER		

GENERAL SYMBOL LEGEND



PROJECT TITLE:

MID-HIGUERA BYPASS

306 HIGUERA ST.- GENERAL REQUIREMENTS

SHEET TITLE:

DESIGNED BY:	DLH
DRAWN BY:	LH
CHECKED BY:	DLH
APPROVED BY:	
SCALE:	
DATE:	5/30/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	
SHEET NO.	A-2 of 65

CONSTRUCTION WASTE & BUILDING MAINTENANCE

SECTION 5.408 CONSTRUCTION WASTE REDUCTION DISPOSAL AND RECYCLING

5.408.1 CONSTRUCTION WASTE MANAGEMENT. RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE NONHAZARDOUS CONSTRUCTION WASTE IN ACCORDANCE WITH SECTION 5.408.1.1, 5.408.1.2 OR 5.408.1.3; OR MEET A LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT.

5.408.1.1 CONSTRUCTION WASTE MANAGEMENT PLAN. WHERE A LOCAL JURISDICTION DOES NOT HAVE A CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE THAT IS MORE STRINGENT, SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN THAT

1. IDENTIFIES THE CONSTRUCTION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY EFFICIENT USAGE, RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.
2. DETERMINES IF CONSTRUCTION WASTE MATERIALS WILL BE SORTED ON-SITE (SOURCE-SEPARATED) OR BULK MIXED (SINGLE STREAM).
3. IDENTIFIES DIVERSION FACILITIES WHERE CONSTRUCTION WASTE MATERIAL COLLECTED WILL BE TAKEN.
4. SPECIFIES THAT THE AMOUNT OF CONSTRUCTION WASTE MATERIALS DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH.

5.408.1.2 WASTE MANAGEMENT COMPANY. UTILIZE A WASTE MANAGEMENT COMPANY THAT CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION WASTE MATERIAL DIVERTED FROM THE LANDFILL COMPLIES WITH THIS SECTION. NOTE: THE OWNER OR CONTRACTOR SHALL MAKE THE DETERMINATION IF THE CONSTRUCTION WASTE MATERIAL WILL BE DIVERTED BY A WASTE MANAGEMENT COMPANY.

EXCEPTIONS TO SECTIONS 5.408.1.1 AND 5.408.1.2:
1. EXCAVATED SOIL AND LAND-CLEARING DEBRIS
2. ALTERNATE WASTE REDUCTION METHODS DEVELOPED BY WORKING WITH LOCAL AGENCIES IF DIVERSION OR RECYCLE FACILITIES CAPABLE OF COMPLIANCE WITH THIS ITEM DO NOT EXIST.
3. DEMOLITION WASTE MEETING LOCAL ORDINANCE OR CALCULATED IN CONSIDERATION OF LOCAL RECYCLING FACILITIES AND MARKETS, WHERE DEMOLITION OF AN EXISTING STRUCTURE(S) IS NECESSARY FOR THE CONSTRUCTION OF A NEW STRUCTURE..

5.408.1.3 WASTE STREAM REDUCTION ALTERNATIVE. THE COMBINED WEIGHT OF NEW CONSTRUCTION DISPOSAL THAT DOES NOT EXCEED 2 LBS/SQ. FT. OF BUILDING AREA MAY BE DEEMED TO MEET THE 50 PERCENT MINIMUM REQUIREMENT AS APPROVED BY THE ENFORCING AGENCY.

5.408.1.4 DOCUMENTATION. DOCUMENTATION SHALL BE PROVIDED TO THE ENFORCING AGENCY WHICH DEMONSTRATES COMPLIANCE WITH SECTIONS 5.408.1.1 THROUGH 5.408.1.3. THE WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE ACCESSIBLE DURING CONSTRUCTION FOR EXAMINATION BY THE ENFORCING AGENCY.

NOTES:
1. SAMPLE FORMS FOUND IN "A GUIDE TO THE CALIFORNIA GREEN BUILDING STANDARDS CODE (NONRESIDENTIAL)" LOCATED AT HTTP://WWW.BSC.CA.GOV/CALGREEN/DEFAULT.HTM MAY BE USED TO ASSIST IN DOCUMENTING COMPLIANCE WITH THE WASTE MANAGEMENT PLAN.

2. MIXED CONSTRUCTION AND DEMOLITION DEBRIS (C&D) PROCESSORS CAN BE LOCATED AT THE CALIFORNIA DEPARTMENT OF RESOURCES RECYCLING AND RECOVERY (CALRECYCLE).

5.408.2 ISOLATED JOBSITES. THE ENFORCING AGENCY MAY MAKE EXCEPTIONS TO THE REQUIREMENTS OF THIS SECTION WHEN JOBSITES ARE LOCATED IN AREAS BEYOND THE HAUL BOUNDARIES OF THE DIVERSION FACILITY.

5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS (BSC). 100 PERCENT OF TREES, STUMPS, ROCKS AND ASSOCIATED VEGETATION AND SOILS RESULTING PRIMARILY FROM LAND CLEARING SHALL BE REUSED OR RECYCLED. FOR A PHASED PROJECT, SUCH MATERIAL MAY BE STOCKPILED ON SITE UNTIL THE STORAGE SITE IS DEVELOPED.

EXCEPTION: REUSE, EITHER ON-OR OFF-SITE, OF VEGETATION OR SOIL CONTAMINATED BY DISEASE OR PEST INFESTATION.

NOTES:

1. IF CONTAMINATION BY DISEASE OR PEST INFESTATION IS SUSPECTED, CONTACT THE COUNTY AGRICULTURAL COMMISSIONER AND FOLLOW ITS DIRECTION FOR RECYCLING OR DISPOSAL OF THE MATERIAL. (WWW.CDFA.CA.GOV/EXEC/COUNTY/COUNTY_CONTACTS.HTML)

-CONTRACTOR TO COMPLY WITH CONSTRUCTION WASTE DISPOSAL AND RECYCLING PER SECTION 5.408 OF THE CALIFORNIA GREEN BUILDING CODE

ADMINISTRATION

SECTION 101 - GENERAL

101.1 TITLE. THESE REGULATIONS SHALL BE KNOWN AS THE CALIFORNIA GREEN BUILDING STANDARDS CODE AND MAY BE CITED AS SUCH AND WILL BE REFERRED TO HEREIN AS "THIS CODE." IT IS INTENDED THAT IT SHALL ALSO BE KNOWN AS THE CALGREEN CODE. THE CALIFORNIA GREEN BUILDING STANDARDS CODE IS PART 11 OF TWELVE PARTS OF THE OFFICIAL COMPILATION AND PUBLICATION OF THE ADOPTION, AMENDMENT AND REPEAL OF BUILDING REGULATIONS TO THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, ALSO REFERRED TO AS THE CALIFORNIA BUILDING STANDARDS CODE.

101.2 PURPOSE. THE PURPOSE OF THIS CODE IS TO IMPROVE PUBLIC HEALTH, SAFETY AND GENERAL WELFARE BY ENHANCING THE DESIGN AND CONSTRUCTION OF BUILDINGS THROUGH THE USE OF BUILDING CONCEPTS HAVING A REDUCED NEGATIVE IMPACT OR POSITIVE ENVIRONMENTAL IMPACT AND ENCOURAGING SUSTAINABLE CONSTRUCTION PRACTICES IN THE FOLLOWING CATEGORIES:

1. PLANNING AND DESIGN
2. ENERGY EFFICIENCY
3. WATER EFFICIENCY AND CONSERVATION
4. MATERIAL CONSERVATION AND RESOURCE EFFICIENCY
5. ENVIRONMENTAL QUALITY

101.3 SCOPE. THE PROVISIONS OF THIS CODE SHALL APPLY TO THE PLANNING, DESIGN, OPERATION, CONSTRUCTION, USE AND OCCUPANCY OF EVERY NEWLY CONSTRUCTED BUILDING OR STRUCTURE, UNLESS OTHERWISE INDICATED IN THIS CODE. THROUGHOUT THE STATE OF CALIFORNIA. IT IS NOT THE INTENT THAT THIS CODE SUBSTITUTE OR BE IDENTIFIED AS MEETING THE CERTIFICATION REQUIREMENTS OF ANY GREEN BUILDING PROGRAM.

SECTION 102 - CONSTRUCTION DOCUMENTS & INSTALLATION VERIFICATION

102.1 SUBMITTAL DOCUMENTS. CONSTRUCTION DOCUMENTS AND OTHER DATA SHALL BE SUBMITTED IN ONE OR MORE SETS WITH EACH APPLICATION FOR A PERMIT. WHERE SPECIAL CONDITIONS EXIST, THE ENFORCING AGENCY IS AUTHORIZED TO REQUIRE ADDITIONAL CONSTRUCTION DOCUMENTS TO BE PREPARED BY A LICENSED DESIGN PROFESSIONAL AND MAY BE SUBMITTED SEPARATELY.

EXCEPTION: THE ENFORCING AGENCY IS AUTHORIZED TO WAIVE THE SUBMISSION OF CONSTRUCTION DOCUMENTS AND OTHER DATA NOT REQUIRED TO BE PREPARED BY A LICENSED DESIGN PROFESSIONAL.

102.2 INFORMATION ON CONSTRUCTION DOCUMENTS. CONSTRUCTION DOCUMENTS SHALL BE OF SUFFICIENT CLARITY TO INDICATE THE LOCATION, NATURE AND SCOPE OF THE PROPOSED GREEN BUILDING FEATURE AND SHOW THAT IT WILL CONFORM TO THE PROVISIONS OF THIS CODE, THE CALIFORNIA BUILDING STANDARDS CODE AND OTHER RELEVANT LAWS, ORDINANCES, RULES AND REGULATIONS AS DETERMINED BY THE ENFORCING AGENCY.

102.3 VERIFICATION. DOCUMENTATION OF CONFORMANCE FOR APPLICABLE GREEN BUILDING MEASURES SHALL BE PROVIDED TO THE ENFORCING AGENCY. ALTERNATE METHODS OF DOCUMENTATION SHALL BE ACCEPTABLE WHEN THE ENFORCING AGENCY FINDS THAT THE PROPOSED ALTERNATE DOCUMENTATION IS SATISFACTORY TO DEMONSTRATE SUBSTANTIAL CONFORMANCE WITH THE INTENT OF THE PROPOSED GREEN BUILDING MEASURE.

MATERIALS AND RESOURCES

SECTION 4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE

4.406.1 RODENT PROOFING. ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN SOLE/BOTTOM PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR A SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY.

SECTION 4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

4.408.1 CONSTRUCTION WASTE REDUCTION OF AT LEAST 50 PERCENT. RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 50 PERCENT OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION DEBRIS, OR MEET A LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT.

EXCEPTIONS:
1. EXCAVATED SOIL AND LAND-CLEARING DEBRIS.
2. ALTERNATE WASTE REDUCTION METHODS DEVELOPED BY WORKING WITH LOCAL AGENCIES IF DIVERSION OR RECYCLE FACILITIES CAPABLE OF COMPLIANCE WITH THIS ITEM DO NOT EXIST OR ARE NOT LOCATED REASONABLY CLOSE TO THE JOBSITE.
3. THE ENFORCING AGENCY MAY MAKE EXCEPTIONS TO THE REQUIREMENTS OF THIS SECTION WHEN ISOLATED JOBSITES ARE LOCATED IN AREAS BEYOND THE HAUL BOUNDARIES OF THE DIVERSION FACILITY.

4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. WHERE A LOCAL JURISDICTION DOES NOT HAVE A CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, A CONSTRUCTION WASTE MANAGEMENT PLAN SHALL BE SUBMITTED FOR APPROVAL TO THE ENFORCING AGENCY THAT:

1. IDENTIFIES THE MATERIALS TO BE DIVERTED FROM DISPOSAL BY RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.
2. SPECIFIES IF MATERIALS WILL BE SORTED ON-SITE OR MIXED FOR TRANSPORTATION TO A DIVERSION FACILITY.
3. IDENTIFIES THE DIVERSION FACILITY WHERE THE MATERIAL COLLECTED WILL BE TAKEN.
4. IDENTIFIES CONSTRUCTION METHODS EMPLOYED TO REDUCE THE AMOUNT OF WASTE GENERATED.
5. SPECIFIES THAT THE AMOUNT OF MATERIALS DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH.

4.408.3 WASTE MANAGEMENT COMPANY. UTILIZE A WASTE MANAGEMENT COMPANY, APPROVED BY THE ENFORCING AGENCY, WHICH CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED FROM THE LANDFILL COMPLIES WITH SECTION 4.408.1.

4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. PROJECTS THAT GENERATE A TOTAL COMBINED WEIGHT OF CONSTRUCTION AND DEMOLITION WASTE DISPOSED OF IN LANDFILLS, WHICH DO NOT EXCEED FOUR (4) LBS./SQ. FT. OF THE BUILDING AREA SHALL MEET THE MINIMUM 50 PERCENT CONSTRUCTION WASTE REDUCTION REQUIREMENT IN SECTION 4.408.1.

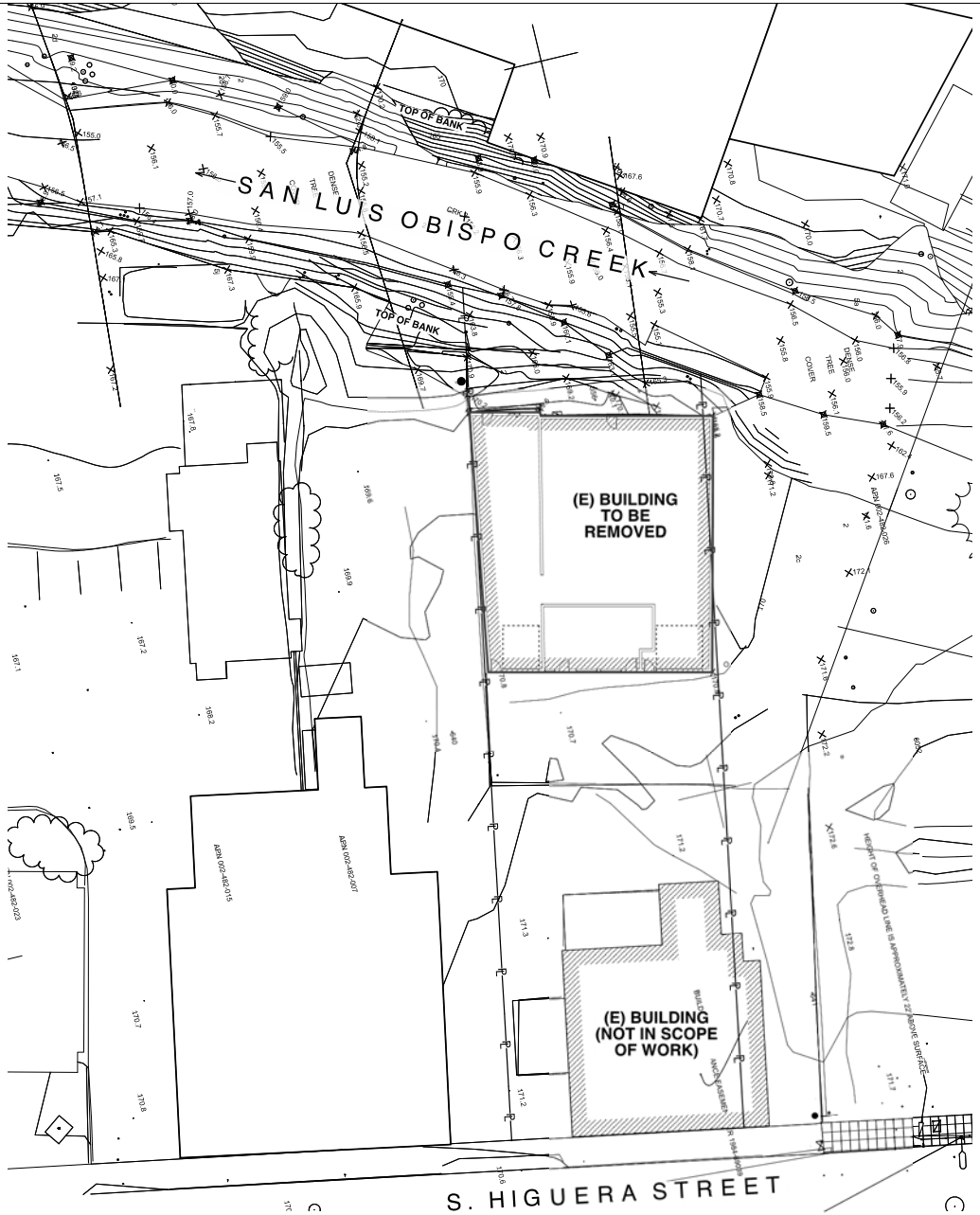
WASTE STREAM REDUCTION ALTERNATIVE. PROJECTS THAT GENERATE A TOTAL COMBINED WEIGHT OF CONSTRUCTION AND DEMOLITION WASTE DISPOSED OF IN LANDFILLS, WHICH DO NOT EXCEED TWO (2) POUNDS PER SQUARE FOOT OF THE BUILDING AREA, SHALL MEET THE MINIMUM 50-PERCENT CONSTRUCTION WASTE REDUCTION REQUIREMENT IN SECTION 4.408.1.

4.408.5 DOCUMENTATION SHALL BE PROVIDED TO THE ENFORCING AGENCY WHICH DEMONSTRATES COMPLIANCE WITH SECTION 4.408.2, ITEMS 1 THROUGH 5, SECTION 4.408.3 OR SECTION 4.408.4.

PROJECT TITLE:
MID-HIGUERA BYPASS

SHEET TITLE:
306 HIGUERA ST.- GENERAL REQUIREMENTS

DESIGNED BY: DLH
DRAWN BY: LH
CHECKED BY: DLH
APPROVED BY:
SCALE:
DATE: 5/30/2024
CITY SPECIFICATION NO. 2090649
PLAN FILE NO. / LOCATION
SHEET NO. A-3 of 65



MID-HIGUERA BYPASS

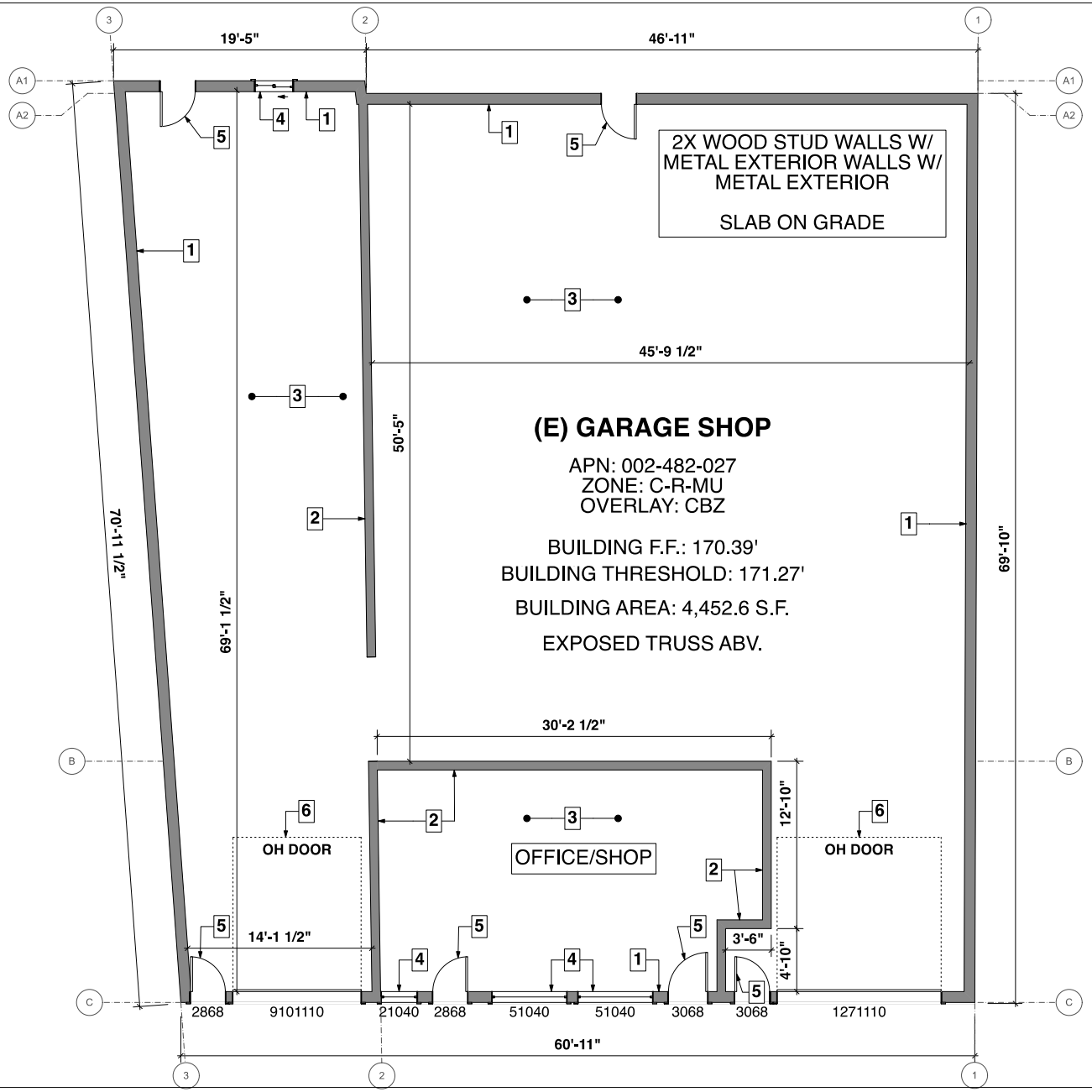
306 HIGUERA ST.- EXISTING SITE PLAN

PROJECT TITLE:

SHEET TITLE:

LICENSED ARCHITECT
OSCAR LEE HUNTER
C-38575
10-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

DESIGNED BY:	DLH
DRAWN BY:	LH
CHECKED BY:	DLH
APPROVED BY:	
SCALE:	1/16" = 1'-0"
DATE:	5/30/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	
SHEET NO.	A-4 of 65



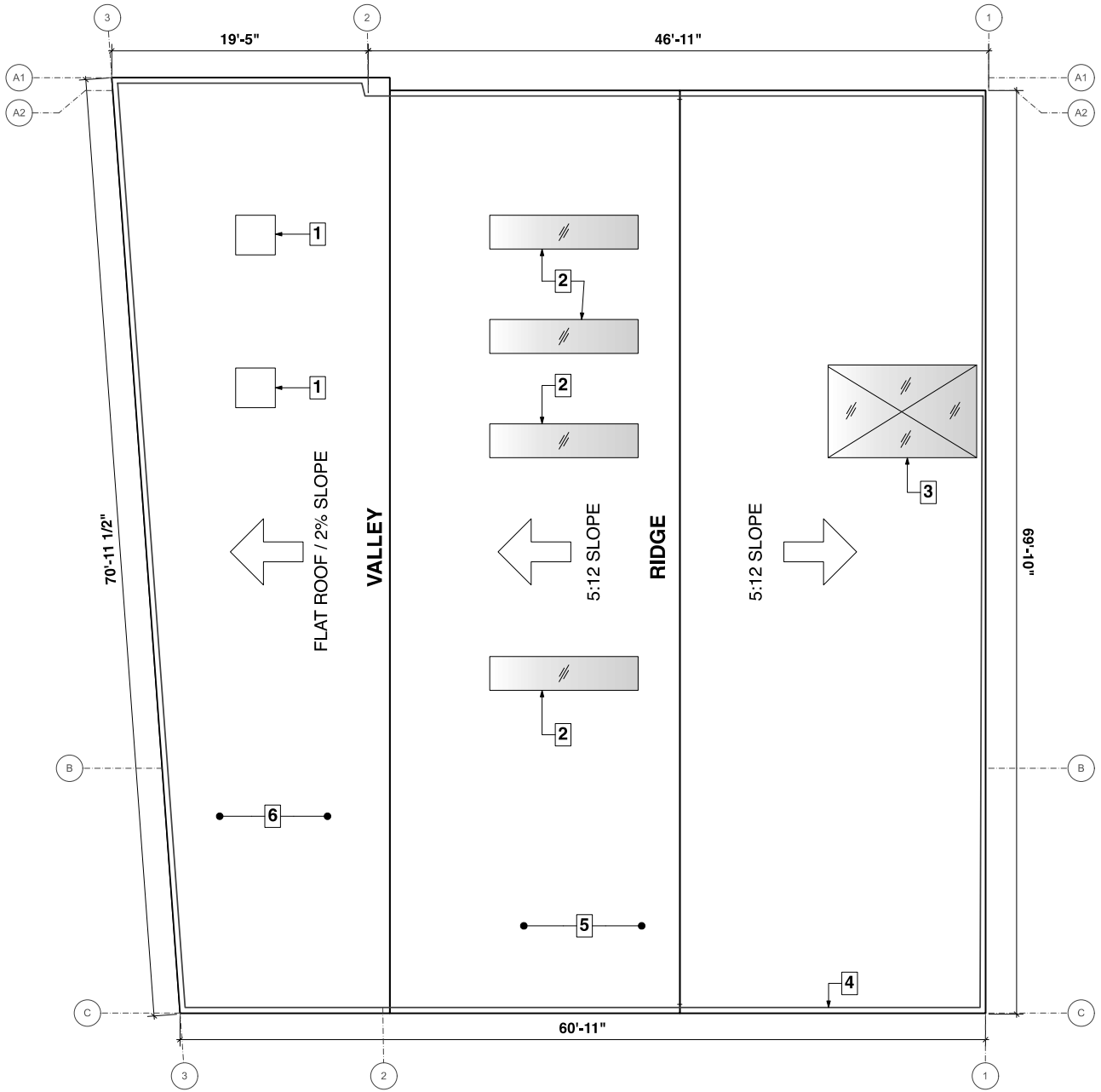
AS-BUILT REFERENCE NOTES:

1. EXTERIOR WALLS WITH METAL EXTERIOR
2. 2X WOOD STUD WALLS
3. CONCRETE SLAB- ON- GRADE FLOOR
4. WINDOW - REFER TO FLOOR PLAN FOR SIZE
5. DOOR - REFER TO FLOOR PLAN FOR SIZE
6. OVERHEAD DOOR - REFER TO FLOOR PLAN FOR SIZE

PROJECT TITLE: **MID-HIGUERA BYPASS**

SHEET TITLE: **306 HIGUERA ST.- EXISTING FLOOR PLAN**

DESIGNED BY: DLH
DRAWN BY: LH
CHECKED BY: DLH
APPROVED BY:
SCALE: 1/4" = 1'-0"
DATE: 5/30/2024
CITY SPECIFICATION NO. 2090649
PLAN FILE NO. / LOCATION
SHEET NO. A-5 of 65



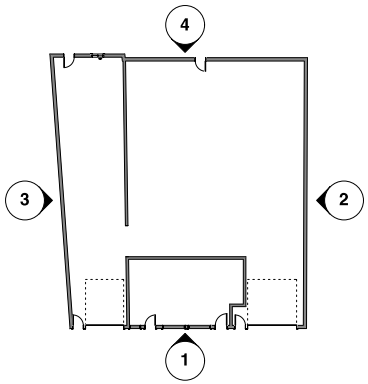
AS-BUILT ROOF REFERENCE NOTES:

1. ROOF TOP EQUIPMENT- VERIFY TYPE IN FIELD.
2. SKYLIGHT- VERIFY SIZE AND LOCATION IN FIELD
3. ARCHITECTURAL CLERESTORY SKYLIGHT. VERIFY SIZE AND LOCATION IN FIELD.
4. INDICATION LOCATION OF BUILDING OUTLINE
5. METAL SLOPED ROOF
6. METAL SHED ROOF

PROJECT TITLE: **MID-HIGUERA BYPASS**

SHEET TITLE: **306 HIGUERA ST.- EXISTING ROOF PLAN**

DESIGNED BY: DLH
DRAWN BY: LH
CHECKED BY: DLH
APPROVED BY:
SCALE: 1/4" = 1'-0"
DATE: 5/30/2024
CITY SPECIFICATION NO. 2090649
PLAN FILE NO. / LOCATION
SHEET NO. A-6 of 65



INTERIOR ELEVATION KEY
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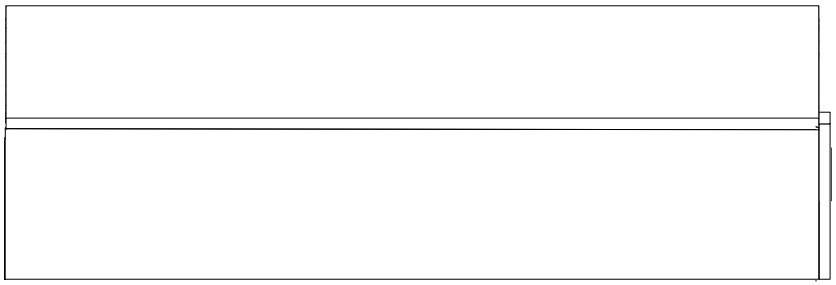

2 SIDE ELEVATION - OPEN SPACE AREA
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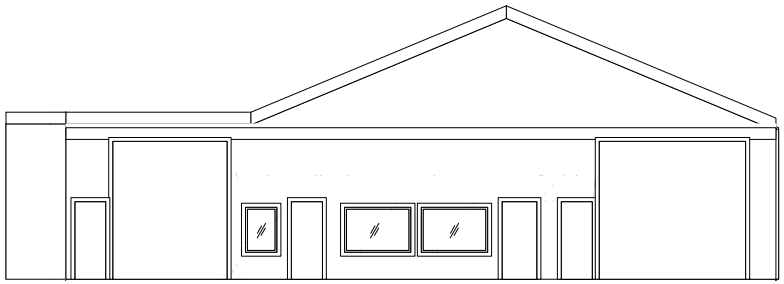
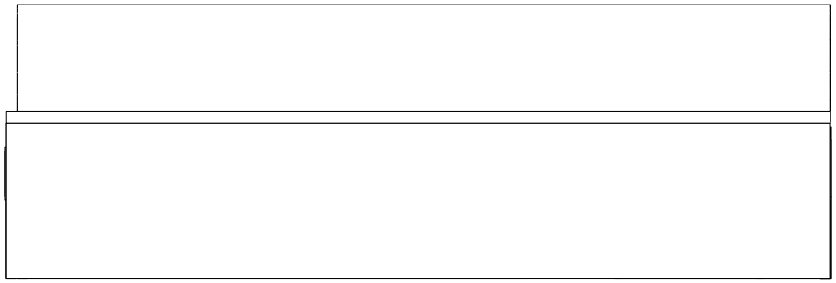
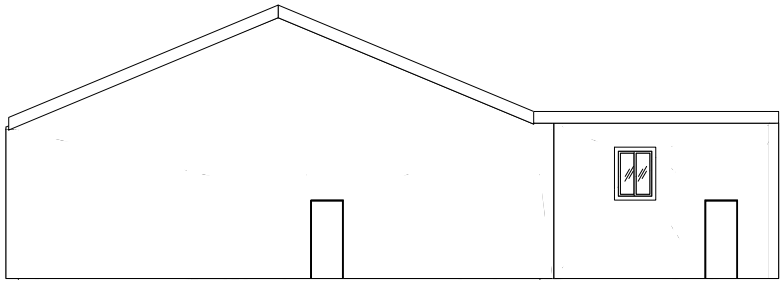


1 FRONT ELEVATION
Scale: 3/16" = 1'-0"



3 SIDE ELEVATION - PARKING LOT
Scale: 3/16" = 1'-0"



4 BACK ELEVATION - CREEK SIDE
Scale: 3/16" = 1'-0"

PROJECT TITLE:
MID-HIGUERA BYPASS

SHEET TITLE:
306 HIGUERA ST.- EXTERIOR ELEVATIONS

DESIGNED BY: DLH
DRAWN BY: LH
CHECKED BY: DLH
APPROVED BY:
SCALE: 3/16" = 1'-0"
DATE: 5/30/2024
CITY SPECIFICATION NO. 2090649
PLAN FILE NO. / LOCATION
SHEET NO. **A-7** of **65**

CHAPTER 33 SAFEGUARDS DURING CONSTRUCTION

SECTION 3301 - GENERAL

3301.1 SCOPE. THE PROVISIONS OF THIS CHAPTER SHALL GOVERN SAFETY DURING CONSTRUCTION AND THE PROTECTION OF ADJACENT PUBLIC AND PRIVATE PROPERTIES.

3301.2 STORAGE AND PLACEMENT. CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED AND PLACED SO AS NOT TO ENDANGER THE PUBLIC, THE WORKERS OR ADJOINING PROPERTY. TEMPORARY BRACING PROVIDED FOR LATERAL SUPPORT OF VERTICAL **STRUCTURAL AND CONSTRUCTION** LOADS SHALL BE APPLIED, ROOF EQUIPMENTS SHALL BE CAPABLE OF SUPPORTING THE ROOF-COVERING SYSTEM AND THE MATERIALAND EQUIPMENT LOADS THAT WILL BE ENCOUNTERED DURING INSTALLATION OF THE SYSTEM.

SECTION 3302 CONSTRUCTION SAFEGUARDS

3302.1 ALTERATIONS, REPAIRS AND ADDITIONS. REQUIRED EXITS, EXISTING STRUCTURAL ELEMENTS, FIRE PROTECTION DEVICES AND SANITARY SAFEGUARDS SHALL BE MAINTAINED AT ALL TIMES DURING ALTERATIONS, REPAIRS OR ADDITIONS TO ANY BUILDING OR STRUCTURE.

EXCEPTIONS:

1. WHERE SUCH REQUIRED ELEMENTS OR DEVICES ARE BEING ALTERED OR REPAIRED, ADEQUATE SUBSTITUTE PROVISIONS SHALL BE MADE.
2. MAINTENANCE OF SUCH ELEMENTS AND DEVICES BI NOT REQUIRED WHERE THE EXISTING BUILDING ISNOT OCCUPIED.

3302.2 MANNER OF REMOVAL. WASTE MATERIALS SHALL BE REMOVED IN A MANNER THAT PREVENTS INJURY OR DAMAGE TO PERSONS, ADJOINING PROPERTIES AND PUBLIC WAYS.

3302.3 FIRE SAFETY DURING CONSTRUCTION. FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THIS CODE AND THE APPLICABLE PROVISIONS OF CHAPTER 33 OF THE CALIFORNIA FIRE CODE.

SECTION 3303 DEMOLITION

3303.1 CONSTRUCTION DOCUMENTS. CONSTRUCTION DOCUMENTS AND A SCHEDULE FOR DEMOLITION SHALL BE SUBMITTED WHERE REQUIRED BY THE BUILDING OFFICIAL. WHERE SUCH INFORMATION IS REQUIRED, WORK SHALL NOT BE DONE UNTIL SUCH CONSTRUCTION DOCU- MENTS OR SCHEDULE, OR BOTH, ARE APPROVED.

3303.2 NOTIFICATION. THE WORK OF DEMOLITION OF ANY BUILDING SHALL NOT BE COMMENCED UNTIL PEDESTRIAN PROTECTION IS IN PLACE AS REQUIRED BY THIS CHAPTER.

3303.3 MEANS OF EGRESS. A HORIZONTAL EXIT SHALL NOT BE DESTROYED UNLESS AND UNTIL A SUBSTITUTE MEANS OF EGRESS HAS BEEN PROVIDED AND APPROVED.

3303.4 VACANT LOT. WHERE A STRUCTURE HAS BEEN DEMOLISHED OR REMOVED, THE VACANT LOT SHALL BE FILLED AND MAINTAINED TO THE EXISTING GRADE OR TO SUCH LEVEL AS MAY BE DIRECTED BY THE BUILDING OFFICIAL FOR THE SAFETY, **3303.5 WATER ACCUMULATION.** PROVISION SHALL BE MADE TO PREVENT THE ACCUMULATION OF WATER OR DAMAGE TO ANY FOUNDA- TIONS ON THE PREMISES OR THE ADJOINING PROPERTY.

3303.6 UTILITY CONNECTIONS. SERVICE UTILITY CONNECTIONS SHALL BE DISCONNECTED AND SEALED IN ACCORDANCE WITH THE APPROVED RULES AND THE REQUIREMENTS OF THE AHJ. (CASLC governing Authority)

3303.7 FIRE SAFETY DURING DEMOLITION. FIRE SAFETY DURING DEMOLITION SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THIS CODE AND THE APPLICABLE PROVISIONS OF CHAPTER 33 OF THE CALIFORNIA FIRE CODE.

SECTION 3304 SITE WORK

3304.1 EXCAVATION AND FILL. EXCAVATION AND FILL FOR BUILDINGS AND STRUCTURES SHALL BE CONSTRUCTED OR PROTECTED SO AS NOT TO ENDANGER LIFE OR PROPERTY. STUMPS AND ROOTS SHALL BE REMOVED FROM THE SOIL TO A DEPTH OF NOT LESS THAN 12 INCHES (305 MM) BELOW THE SURFACE OF THE GROUND IN THE AREA TO BE OCCUPIED BY THE BUILDING. WOOD FORMS THAT HAVE BEEN USED IN CONCRETE FOOTINGS SHALL BE REMOVED BEFORE BACKFILLING. ALL DEBRIS ON THE GROUND SHALL BE REMOVED BEFORE A BUILDING IS OCCUPIED OR USED FOR ANY PURPOSE. BEFORE COMPLETION, LOOSE OR CASUAL WOOD SHALL BE REMOVED FROM DIRECT CONTACT WITH THE GROUND UNDER THE BUILDING.

3304.1.1 SLOPE LIMITS. SLOPES FOR PERMANENT FILL SHALL BE NOT STEEPER THAN ONE UNIT VERTICAL IN TWO UNITS HORIZONTAL (50-PERCENT SLOPE). SLOPES FOR PERMANENT EXCAVATIONS SHALL BE NOT STEEPER THAN ONE UNIT VERTICAL IN TWO UNITS HORI-ZONTAL (50-PERCENT SLOPE). DEVIATION FROM THE FOREGOING LIMITATIONS FOR CUT SLOPES SHALL BE PERMITTED ONLY UPON THE PRESENTATION OF A SOIL INVESTIGATION REPORT ACCEPTABLE TO THE AHJ. (CASLC governing Authority)

3304.1.2 SURCHARGE. FILL OR OTHER SURCHARGE LOADS SHALL NOT BE PLACED ADJACENT TO ANY BUILDING OR STRUCTURE UNLESS SUCH BUILDING OR STRUCTURE IS CAPABLE OF WITHSTANDING THE ADDITIONAL LOADS CAUSED BY THE FILL OR SURCHARGE. EXISTING FOOTINGS OR FOUNDATIONS THAT CAN BE AFFECTED BY ANY EXCA- VATION SHALL BE UNDERPINNED ADEQUATELY OR OTHERWISE PROTECTED AGAINST SETTLEMENT AND SHALL BE PROTECTED AGAINST LATERAL MOVEMENT.

3304.1.3 FOOTINGS ON ADJACENT SLOPES. FOR FOOTINGS ON ADJACENT SLOPPES, SEE CHAPTER 18.

3304.1.4 FILL SUPPORTING FOUNDATIONS. FILL TO BE USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING OR STRUCTURE SHALL COMPLY WITH THE REQUIREMENTS FOR CONTROLLED COMPACTED FILL SHALL BE IN ACCORDANCE WITH SECTION 1705A.

3304.1.5 (HCD 1) STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF SOIL AND ARE NOT PART OF A LARGER COMMON PLANOF DEVELOPMENT WHICH IN TOTAL DISTURBS ONE ACRE OR MORE, SHALL MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION IN ACCORDANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN, CHAPTER 4 DIVISION 4.).

SECTION 3305 SANITARY

3305.1 FACILITIES REQUIRED. SANITARY FACILITIES SHALL BE PROVIDED DURING CONSTRUCTION, REMODELING OR DEMOLITION ACTIVITIES IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE.

SECTION 3306 PROTECTION OF PEDESTRIANS

(BS) 3306.1 PROTECTION REQUIRED. PEDESTRIANS SHALL BE PROTECTED DURING CONSTRUCTION, REMODELING AND DEMOLITION ACTIVITIES AS REQUIRED BY THIS CHAPTER AND TABLE 3306.1. SIGNS SHALL BE PROVIDED TO DIRECT PEDESTRIAN TRAFFIC.

TABLE 3306.1
PROTECTION OF PEDESTRIANS

HEIGHT OF CONSTRUCTION	DISTANCE FROM CONSTRUCTION TO LOT LINE	TYPE OF PROTECTION REQUIRED
8 FEET OR LESS	LESS THAN 5 FEET	CONSTRUCTION RAILINGS
	5 FEET OR MORE	NONE
MORE THAN 8 FEET	LESS THAN 5 FEET	BARRIER AND COVERED WALKWAY
	5 FEET OR MORE, BUT NOT MORE THAN ONE-FOURTH THE HEIGHT OF CONSTRUCTION	BARRIER AND COVERED WALKWAY
	5 FEET OR MORE, BUT BETWEEN ONE-FOURTH AND ONE-HALF THE HEIGHT OF CONSTRUCTION	BARRIER
	5 FEET OR MORE, BUT EXCEEDING ONE-HALF THE HEIGHT OF CONSTRUCTION	NONE

(BS) 3306.2 WALKWAYS. A WALKWAY SHALL BE PROVIDED FOR PEDESTRIAN TRAVEL IN FRONT OF EVERY CONSTRUCTION AND DEMOLI- TION SITE UNLESS THE APPLICABLE GOVERNING AUTHORITY AUTHORIZES THE SIDEWALK TO BE FENCED OR CLOSED. A WALKWAY SHALL BE PROVIDED FOR PEDESTRIAN TRAVEL THAT LEADS FROM A BUILDING ENTRANCE OR EXIT OF AN OCCUPIED STRUCTURE TO A PUBLIC WAY. WALKWAYS SHALL BE OF SUFFICIENT WIDTH TO ACCOMMODATE THE ANTICIPATED PEDESTRIAN TRAFFIC, BUT NOT LESS THAN 48 INCHES (1219 MM) IN WIDTH. WALKWAYS SHALL BE PROVIDED WITH A DURABLE WEARING SURFACE. WALKWAYS SHALL BE ACCESSIBLE IN ACCORDANCE WITH CHAPTER 11A OR 11B AS APPLICABLE, AND SHALL BE DESIGNED TO SUPPORT ALL IMPOSED LOADS, AND THE DESIGN LIVE LOAD SHALL BE NOT LESS THAN 150 POUNDS PER SQUARE FOOT (PSF) (7.2 kN/m²).

(BS) 3306.3 PROTECTION OF PEDESTRIANS. PEDESTRIAN TRAFFIC SHALL BE PROTECTED BY A DIRECTIONAL BARRICADE WHERE THE WALKWAY EXTENDS INTO THE STREET. THE DIRECTIONAL BARRICADE SHALL BE OF SUFFICIENT SIZE AND CONSTRUCTION TO DIRECT VEHICULAR TRAFFIC AWAY FROM THE PEDESTRIAN PATH.

(BS) 3306.4 CONSTRUCTION RAILINGS. CONSTRUCTION RAILINGS SHALL BE NOT LESS THAN 42 INCHES (1067 MM) IN HEIGHT AND SHALL BE SUFFICIENT TO DIRECT PEDESTRIANS AROUND CONSTRUCTION AREAS.

(BS) 3306.5 BARRIERS. BARRIERS SHALL BE NOT LESS THAN 8 FEET (2438 MM) IN HEIGHT AND SHALL BE PLACED ON THE SIDE OF THE WALKWAY NEAREST THE CONSTRUCTION. BARRIERS SHALL EXTEND THE ENTIRE LENGTH OF THE CONSTRUCTION SITE. OPENINGS IN SUCH BARRIERS SHALL BE PROTECTED BY DOORS THAT SHALL BE KEPT CLOSED.

(BS) 3306.6 BARRIER DESIGN. BARRIERS SHALL BE DESIGNED TO RESIST LOADS REQUIRED IN CHAPTER 16 UNLESS CONSTRUCTED AS FOLLOWS:

1. BARRIERS SHALL BE PROVIDED WITH 2-INCH BY 4-INCH (51 MM BY 102 MM) TOP AND BOTTOM PLATES.
2. THE BARRIER MATERIAL SHALL BE BOARDS NOT LESS THAN ¾-INCH (19.1-MM) PLY-WOOD OR WOOD STRUCTURAL PANELS NOT LESS THAN ¼-INCH (6.4 MM) THICK.
3. WOOD STRUCTURAL USE PANELS SHALL BE BONDED WITH AN ADHESIVE IDENTICAL TO THAT FOR EXTERIOR WOOD STRUCTURAL USE PANELS.
4. WOOD STRUCTURAL USE PANELS 7/INCH (6.4 MM) OR 1 INCH (25.0 MM) IN THICKNESS SHALL HAVE STUDS SPACED NOT MORE THAN 4 FEET (610 MM) ON CENTER.
5. WOOD STRUCTURAL USE PANELS ¼INCH (6.5 MM) OR 1INCH (12.7 MM) IN THICKNESS SHALL HAVE STUDS SPACED NOT MORE THAN 4 FEET (1219 MM) ON CENTER PROVIDED THAT A 2-INCH BY 4-INCH (51 MM BY 102 MM) STIFFENER IS PLACED HORIZONTALLY AT MID-HEIGHT WHERE THE STUD SPAC- ING GREATER THAN 2 FEET (610 MM) ON CENTER.
6. PLYWOOD USED IN BARRIER PANELS SHALL BE ¼INCH (6.5 MM) OR THICKER SHALL NOT SPAN OVER 8 FEET (2438 MM).

(BS) 3306.7 COVERED WALKWAYS. COVERED WALKWAYS SHALL HAVE A CLEAR HEIGHT OF NOT LESS THAN 8 FEET (2438 MM) AS MEASURED FROM THE FLOOR SURFACE TO THE CANOPY OVERHEAD. ADEQUATE LIGHTING SHALL BE PROVIDED AT ALL TIMES. COVERED WALKWAYS SHALL BE DESIGNED TO SUPPORT ALL IMPOSED LOADS AND THE DESIGN LIVE LOAD SHALL BE NOT LESS THAN 150 PSF (7.2 kN/M²) FOR THE ENTIRE STRUCTURE.

EXCEPTION: ROOFS AND SUPPORTING STRUCTURES OF COVERED WALKWAYS FOR NEW, LIGHT-FRAME CONSTRUCTION NOT EXCEEDING TWO STORIES ABOVE GRADE PLANE ARE PERMITTED TO BE DESIGNED FOR A LIVE LOAD OF 75 PSF (3.60kN/M) OR THE LOADS IMPOSED ON THEM, WHICHEVER IS GREATER. IN LIEU OF SUCH DESIGNS, THE ROOF AND SUPPORTING STRUCTURE OF A COVERED WALKWAY ARE PERMITTED TO BE CONSTRUCTED AS FOLLOWS:

1. FOOTINGS SHALL BE CONTINUOUS 24INCH BY 24INCH (61 MM BY 152 MM) MEMBERS.
2. POSTS NOT LESS THAN 4 INCHES BY 4 INCHES (102 MM BY 152 MM) SHALL BE PROVIDED ON BOTH SIDES OF THE ROOF AND SPACED NOT MORE THAN 8 FEET (2438 MM) ON CENTER.
3. STRINGERS NOT LESS THAN 4 INCHES BY 12 INCHES (102 MM BY 305 MM) SHALL BE PLACED ON EDGE UPON THE POSTS.
4. JOISTS RESTING ON THE STRINGERS SHALL BE NOT LESS THAN 2 INCHES BY 6 INCHES (51 MM BY 203 MM) AND SHALL BE SPACED NOT MORE THAN 2 FEET (610 MM) ON CENTER.
5. THE DECK SHALL BE PLANK NOT LESS THAN 2 INCHES (51 MM) THICK OR WOOD STRUCTURAL PANELS WITH AN EXTERIOR EXPOSURE DURABILITY CLASSIFICATION NOT LESS THAN 23/32 INCH (18.3MM) THICK NAILED TO THE JOISTS.
6. A RAIL SHALL BE SECURELY ATTACHED TO JOISTS AND STRINGERS BY MEMBERS NOT LESS THAN 2 INCHES BY 4 INCHES (51 MM BY 102 MM) 4 FEET (1219 MM) IN LENGTH.
7. A CURB THAT IS NOT LESS THAN 2 INCHES BY 4 INCHES (51 MM BY 102 MM) SHALL BE SET ON EDGE ALONG THE OUTSIDE EDGE OF THE DECK.

(BS) 3306.8 REPAIR, MAINTENANCE AND REMOVAL. PEDESTRIAN PROTECTION REQUIRED BY THIS CHAPTER SHALL BE MAINTAINED IN PLACE AND KEPT IN GOOD ORDER FOR THE ENTIRE LENGTH OF TIME PEDESTRIANS ARE SUBJECT TO BEING ENDANGERED. THE OWNER OR THE OWNER'S AUTHORIZED AGENT, ON COMPLETION OF THE CONSTRUCTION ACTIVITY, SHALL IMMEDIATELY REMOVE WALKWAYS, DEBRIS AND CONSTRUCTION EQUIPMENT AND PLACE THE PROPERTY IN AS GOOD A CONDITION AS IT WAS BEFORE SUCH WORK WAS COMMENCED.

(BS) 3306.9 ADJACENT TO EXCAVATIONS. EVERY EXCAVATION ON A SITE LOCATED 5 FEET (1524 MM) OR LESS FROM THE STREET LOT LINE SHALL BE ENCLOSED WITH A BARRIER NOT LESS THAN 6 FEET (1829 MM) IN HEIGHT. WHERE LOCATED MORE THAN 5 FEET (1524 MM) FROM THE STREET LOT LINE, THE BARRIER SHALL BE ERECTED WHERE REQUIRED BY THE BUILDING OFFICIAL. BARRIERS SHALL BE OF ADEQUATE STRENGTH TO RESIST WIND PRESSURE AS SPECIFIED IN CHAPTER 16.

SECTION 3307 PROTECTION OF ADJOINING PROPERTY

(BS) 3307.1 PROTECTION REQUIRED. ADJOINING PUBLIC AND PRIVATE PROPERTY SHALL BE PROVIDED FROM DAMAGE DURING CONSTRUCTION, REMODELING AND DEMOLITION WORK. PROTECTION MUST BE PROVIDED FOR FOOTINGS, FOUNDATIONS, PARTY WALLS, CHIM- NEYS, SKYLIGHTS AND ROOFS. PROVISIONS SHALL BE MADE TO CONTROL WATER RUNOFF AND EROSION DURING CONSTRUCTION OR DEMOLITION ACTIVITIES. THE PERSON MAKING OR CAUSING AN EXCAVATION TO BE MADE SHALL PROVIDE WRITTEN NOTICE TO THE OWNERS OF ADJOINING BUILDINGS ADVISING THEM THAT THE EXCAVATION IS BEING MADE AND THAT THE BUILDINGS SHALL BE PROTECTED, AND NOTIFI- CATION SHALL BE DELIVERED NOT LESS THAN 10 DAYS PRIOR TO THE SCHEDULED STARTING DATE OF THE EXCAVATION.

(BS) 3307.2 EXCAVATION RETENTION SYSTEMS. WHERE A RETEN- TION SYSTEM IS USED TO PROVIDE SUPPORT OF AN EXCAVATION FOR PROTECTION OF ADJACENT STRUCTURES, THE SYSTEM SHALL CONFORM TO THE REQUIREMENTS IN SECTIONS 3307.2.1 THRU 3307.2.3.

(BS) 3307.2.1 EXCAVATION RETENTION SYSTEM DESIGN. EXCAVATION RETENTION SYSTEMS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL TO PROVIDE VERTICAL AND LATERAL SUPPORT.

(BS) 3307.2.2 EXCAVATION RETENTION SYSTEM MONITORING. THE RETENTION SYSTEM DESIGN SHALL INCLUDE REQUIREMENTS FOR MONITORING OF THE RETENTION SYSTEM, ADJACENT STRUCTURES FOR HORIZONTAL AND VERTICAL MOVEMENT.

(BS) 3307.2.3 RETENTION SYSTEM REMOVAL. ELEMENTS OF THE SYSTEM SHALL ONLY BE REMOVED OR DISCOMMISSIONED WHERE ADEQUATE REPLACEMENT SUPPORT IS PROVIDED BY BACKFILL OR BY THE NEW CONSTRUCTION. REMOVAL OF ELEMENTS OF THE SYSTEM SHALL BE PERFORMED IN SUCH A MANNER THAT PROTECTS THE ADJACENT PROPERTY.

(HCD 1&HCD 2) NOTE: SEE CMC CODE SECTION 802 FOR ADDITIONAL REQUIREMENTS RELATED TO ADJOINING PROPERTIES AND EXCAVATIONS.

SECTION 3308 TEMPORARY USE OF STREETS, ALLEYS AND PUBLIC PROPERTY

3308.1 STORAGE AND HANDLING OF MATERIALS. THE TEMPORARY USE OF STREETS OR PUBLIC PROPERTY FOR THE STORAGE OR HANDLING OF MATERIALS OR OF EQUIPMENT REQUIRED FOR CONSTRUCTION OR DEMO- LITION, AND THE PROTECTION PROVIDED TO THE PUBLIC SHALL COMPLY WITH THE PROVISIONS OF THE APPLICABLE GOVERNING AUTHORITY AND THIS CHAPTER.

3308.2 OBSTRUCTIONS. CONSTRUCTION MATERIALAND EQUIPMENT SHALL NOT BE PLACED SO AS TO OBSTRUCT FIRE HYDRANTS, STANDPIPES, FIRE OR POLICE ALARM BOXES, CATCH BASINS OR MANHOLES. NOR SHALL SUCH MATERIAL OR EQUIPM- MENT BE LOCATED WITHIN 20 FEET (6096 MM) OF A STREET INTERSECTION, OR PLACED SO AS TO OBSTRUCT NORMAL OBSERVA- TIONS OF TRAFFIC SIGNALS OR TO HINDER THE OPERATION OF POLICE OR FIRE APPARATUS.

3308.3 UTILITY FIXTURES. BUILDING MATERIALS, FENCES, SHEDS OR ANY OBSTRUCTION OF ANY KIND SHALL NOT BE PLACED SO AS TO OBSTRUCT FREE APPROACH TO ANY FIRE HYDRANT, FIRE DEPARTMENT CONNECTION, UTILITY POLE, MANHOLE, FIRE ALARM BOX OR CATCH BASIN, OR SO AS TO INTERFERE WITH THE PASSAGE OF WATER IN ANY GUTTER. PROTECTION AGAINST DAMAGE SHALL BE PROVIDED TO SUCH UTILITY FIXTURES DURING THE PROGRESS OF THE WORK, BUT SIGHT OF THEM SHALL NOT BE OBSTRUCTED.

SECTION 3309 FIRE EXTINGUISHERS

(F) 3309.1 WHERE REQUIRED. STRUCTURES UNDER CONSTRUCTION, ALTERATION OR DEMOLITION SHALL BE PROVIDED WITH NOT FEWER THAN ONE APPROVED PORTABLE FIRE EXTINGUISHER IN ACCORDANCE WITH SECTION 906 AND SIZED FOR NOT LESS THAN ORDINARY HAZARD AS FOLLOWS:

1. AT EACH STAIRWAY ON ALL FLOOR LEVELS WHERE COMBUSTIBLE MATERIALS HAVE ACCUMULATED.
2. IN EVERY STORAGE AND CONSTRUCTION SHED.
3. WHERE FLAMMABLE AND COMBUSTIBLE LIQUIDS SHALL BE PROVIDED WHERE SPECIAL HAZARDS EXIST, SUCH AS THE STORAGE AND USE OF FLAMMABLE AND COMBUSTIBLE LIQUIDS.

(F) 3309.2 FIRE HAZARDS. THE PROVISIONS OF THIS CODE AND THE CALIFORNIA FIRE CODE SHALL BE STRICTLY OBSERVED TO SAFEGUARD AGAINST ALL FIRE HAZARDS ATTENDANT UPON CONSTRUCTION OPERATIONS.

SECTION 3310 MEANS OF EGRESS

3310.1 STAIRWAYS REQUIRED. WHERE BUILDING CONSTRUCTION EXCEEDS 40 FEET (12 192 MM) IN HEIGHT ABOVE THE LOWEST LEVEL OF FIRE DEPARTMENT VEHICLE ACCESS, A TEMPORARY OR PERMANENT STAIRWAY SHALL BE PROVIDED, AS CONSTRUCTION PROGRESSES. SUCH STAIRWAY SHALL BE EXTENDED TO WITHIN ONE STORY OF THE HIGHEST POINT OF CONSTRUCTION HAVING SECURED DECKING OR FLOORING.

(F) 3310.2 MAINTENANCE OF MEANS OF EGRESS. MEANS OF EGRESS AND REQUIRED ACCESSIBLE MEANS OF EGRESS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION, DEMOLITION, REMODELING OR ALTERATIONS AND ADDITIONS TO ANY BUILDING.

EXCEPTION: EXISTING MEANS OF EGRESS NEED NOT BE MAINTAINED WHERE APPROVED TEMPORARY MEANS OF EGRESS SYSTEMS AND FACILITIES ARE PROVIDED.

SECTION 3311 STANDPIPES

(F) 3311.1 WHERE REQUIRED. IN BUILDINGS REQUIRED TO HAVE STANDPIPES BY SECTION 905.3.1, NOT FEWER THAN ONE STANDPIPE SHALL BE PROVIDED FOR USE DURING CONSTRUCTION. SUCH STANDPIPES SHALL BE INSTALLED PRIOR TO CONSTRUCTION EXCEEDING 40 FEET (12 192 MM) IN HEIGHT ABOVE THE LOWEST LEVEL OF FIRE DEPART- MENT VEHICLE ACCESS. SUCH STANDPIPES SHALL BE PROVIDED WITH FIRE DEPARTMENT HOSE CONNECTIONS AT LOCATIONS ADJACENT TO STAIRWAYS AS REQUIRED BY THE FIRE CODE OFFICIAL. AS CONSTRUCTION PROGRESSES, SUCH STANDPIPES SHALL BE EXTENDED TO WITHIN ONE FLOOR OF THE HIGHEST POINT OF CONSTRUCTION HAVING SECURED DECKING OR FLOORING.

(F) 3311.2 BUILDINGS BEING DEMOLISHED. WHERE A BUILDING IS BEING DEMOLISHED AND STANDPIPE EXISTS WITHIN SUCH A BUILD-ING, SUCH STANDPIPE SHALL BE MAINTAINED IN SERVICE UNTIL THE FLOOR BELOW THE LOWEST FLOOR BEING DEMOLISHED HAS BEEN REMOVED. WHERE REQUIRED BY THE FIRE DEPARTMENT, SUCH STANDPIPE SHALL BE DEMOLISHED NOT MORE THAN ONE FLOOR BELOW THE FLOOR BEING DEMOLISHED.

(F) 3311.3 DETAILED REQUIREMENTS. STANDPIPES SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 905 AND THE FOLLOWING:

EXCEPTION: STANDPIPES SHALL BE EITHER TEMPORARY OR PERMANENT IN NATURE, AND WITH OR WITHOUT A WATER SUPPLY, PROVIDED THAT SUCH STANDPIPES CONFORM TO THE REQUIREMENTS OF SECTION 905 AS TO CAPACITY, OUTLETS AND MATERIALS.

SECTION 3312 AUTOMATIC SPRINKLER SYSTEM

(F) 3312.1 INSTALLATION REQUIREMENTS. IN BUILDINGS WHERE AN AUTOMATIC SPRINKLER SYSTEM REQUIRED BY THIS CODE, IT SHALL BE UNLAWFUL TO OCCUPY ANY PORTION OF A BUILDING OR STRUCTURE UNTIL THE AUTOMATIC SPRINKLER SYSTEM INSTALLATION HAS BEEN TESTED AND APPROVED, EXCEPT AS PROVIDED IN SECTION 3312.2.

(F) 3312.2 OPERATION OF VALVES. OPERATION OF SPRINKLER CONTROL VALVES SHALL BE PERMITTED ONLY BY PROPERLY AUTHORIZED PERSONNEL AND SHALL BE ACCOMPANIED BY NOTIFICATION OF DULY DESIGNATED PARTIES, WHEN THE SPRINKLER PROTECTION IS BEING REGULARLY TURNED OFF AND ON TO FACILITATE CONNECTION OF NEW, COMPLETED SEGMENTS. THE SPRINKLER CONTROL VALVES SHALL BE CHECKED AT THE END OF EACH WORK PERIOD TO ASCERTAIN THAT PROTECTION IS IN SERVICE.

SECTION 3313
WATER SUPPLY FOR FIRE PROTECTION

(F) 3313.1 WHERE REQUIRED. AN APPROVED WATER SUPPLY FOR FIRE PROTECTION, EITHER TEMPORARY OR PERMANENT, SHALL BE MADE AVAILABLE AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON THE JOB SITE. DURING COMMENCEMENT OF VERTICAL COMBUSTIBLE CONSTRUCTION, AND ON INSTALLATION OF A STANDPIPE SYSTEM IN BUILDINGS UNDER CONSTRUCTION, IN ACCORDANCE WITH SECTIONS 3313.2 THROUGH 3313.3.

EXCEPTION: THE FIRE CODE OFFICIAL IS AUTHORIZED TO REDUCE THE REQUIREMENTS FOR ACCESS AND FIRE FLOW FOR THE CONSTRUCTION OF BUILDINGS IN RURAL AREAS OR SMALL COMMUNITIES WHERE THE DEVELOPMENT OF FULL FIRE-FLOW REQUIREMENTS IS IMPRACTICAL.

(F) 3313.2 COMBUSTIBLE BUILDING MATERIALS. WHEN COMBUS- TIBLE BUILDING MATERIALS OF THE BUILDING UNDER CONSTRUCTION ARE DELIVERED TO A SITE, AUTHORITATIVE INFORMATION SHALL BE PROVIDED TO THE FIRE DEPARTMENT STATING THAT ADEQUATE WATER SUPPLY TO REMOVE THE FIRE FLOW DURING SHALL BE WITHIN 600 FEET (182 M) OF THE COMBUSTIBLE BUILDING MATERIALS, AS MEASURED ALONG AN APPROVED FIRE APPARATUS ACCESS LANE. WHERE THE SITE CONDI- TIONS DO NOT COMPLY WITH THIS CODE FIRE HYDRANT CANNOT BE LOCATED WITHIN 600 FEET (182 M) OF ALL COMBUSTIBLE BUILDING MATERIALS, ADDI- TIONAL FIRE HYDRANTS SHALL BE REQUIRED TO PROVIDE COVERAGE IN ACCORDANCE WITH THIS SECTION.

(F) 3313.3 VERTICAL CONSTRUCTION OF TYPES III, IV AND V CONSTRUCTION. PRIOR TO COMMENCEMENT OF VERTICAL CONSTRUC- TION OF TYPE III, IV OR V BUILDINGS THAT UTILIZE ANY COMBUSTIBLE BUILDING MATERIALS, THE FIRE FLOW REQUIRED BY SECTIONS 3313.2 THROUGH 3313.3.2, SHALL BE PROVIDED, ACCOMPANIED BY FIRE HYDRANTS IN SUFFICIENT QUANTITY TO DELIVER THE REQUIRED FIRE FLOW AND PROPER COVERAGE.

(F) 3313.3.1 FIRE SEPARATION UP TO 10 FEET. WHERE A BUILDING OF TYPE III, IV OR V CONSTRUCTION HAS A FIRE SEPARATION DISTANCE OF LESS THAN 30 FEET (9144 MM) FROM PROPERTY LOT LINES, AND AN ADJACENT PROPERTY HAS AN EXISTING STRUCTURE OR OTHERWISE CAN BE BUILT ON, THE WATER SUPPLY SHALL PROVIDE EITHER A MINIMUM OF 500 GALLONS PER MINUTE (1893 L/M), OR THE ENTIRE FIRE FLOW REQUIRED FOR THE BUILD- ING WHEN CONSTRUCTED, WHICHEVER IS GREATER.

(F) 3313.3.2 FIRE SEPARATION OF 30 FEET UP TO 60 FEET. WHERE A BUILDING OF TYPE III, IV OR V CONSTRUCTION HAS A FIRE SEPARATION DISTANCE OF 30 FEET (9144 MM) UP TO 60 FEET (18 288 MM) FROM PROPERTY LOT LINES, AND AN ADJACENT PROPERTY HAS AN EXISTING STRUCTURE OR OTHERWISE CAN BE BUILT ON, THE WATER SUPPLY SHALL PROVIDE EITHER A MINIMUM OF 1000 GALLONS PER MINUTE (3785 L/M), OR 50 PERCENT OF THE FIRE FLOW REQUIRED FOR THE BUILDING WHEN CONSTRUCTED, WHICHEVER IS GREATER.

(F) 3313.3.3 FIRE SEPARATION OF 60 FEET OR GREATER. WHERE A BUILDING OF TYPE III, IV OR V CONSTRUCTION HAS A FIRE SEPARATION OF 60 FEET (18 288 MM) OR GREATER FROM A PROPERTY LOT LINE, WATER SUPPLY OF 500 GALLONS PER MINUTE (1893 L/M) SHALL BE PROVIDED.

(F)3313.4 VERTICAL CONSTRUCTION, TYPES I AND II CONSTRUCTION. IF COMBUSTIBLE BUILDING MATERIALS ARE DELIVERED TO THE CONSTRUCTION SITE, WATER SUPPLY IN ACCORDANCE WITH SECTION 3313.2 SHALL BE PROVIDED, ADDITIONAL WATER SUPPLY FOR FIRE FLOW IS NOT REQUIRED PRIOR TO COMMENCING VERTICAL CONSTRUCTION OF TYPE I OR II BUILDINGS.

(F) 3313.5 STANDPIPE SUPPLY. REGARDLESS OF THE DISTANCE OF COMBUSTIBLE BUILDING MATERIALS, THE CONSTRUCTION TYPE OR THE FIRE SEPARATION DISTANCE, WHERE A STANDPIPE IS REQUIRED IN ACCORDANCE WITH SECTION 3311, A WATER SUPPLY PROVIDING A MINIMUM FLOW OF 500 GALLONS PER MINUTE (1893 L/M) SHALL BE PROVIDED. THE FIRE HYDRANT USED FOR THIS WATER SUPPLY SHALL BE LOCATED WITHIN 100 FEET (30 480 MM) OF THE FIRE DEPARTMENT CONNECTION SUPPLYING THE STANDPIPE.

SECTION 3314
FIRE WATCH DURING CONSTRUCTION

(F) 3314.1 WHERE REQUIRED FOR COMBUSTIBLE CONSTRUCTION. A FIRE WATCH SHALL BE PROVIDED DURING NONWORKING HOURS FOR CONSTRUCTION THAT EXCEEDS 40 FEET (12 192 MM) IN HEIGHT ABOVE THE LOWEST ADJACENT GRADE AT ANY POINT ALONG THE BUILD- ING PERIMETER, FOR NEW MULTISTORY CONSTRUCTION WITH AN AGGREGATE AREA EXCEEDING 50,000 SQUARE FEET (4645 M²) PER STORY OR AS REQUIRED BY THE FIRE CODE OFFICIAL.

CITY OF SAN LUIS OBISPO

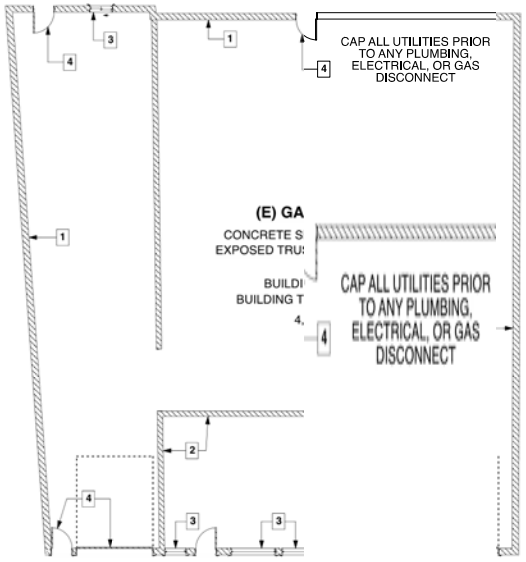
MID-HIGUERA BYPASS

306 HIGUERA ST.- DEMOLITION NOTES

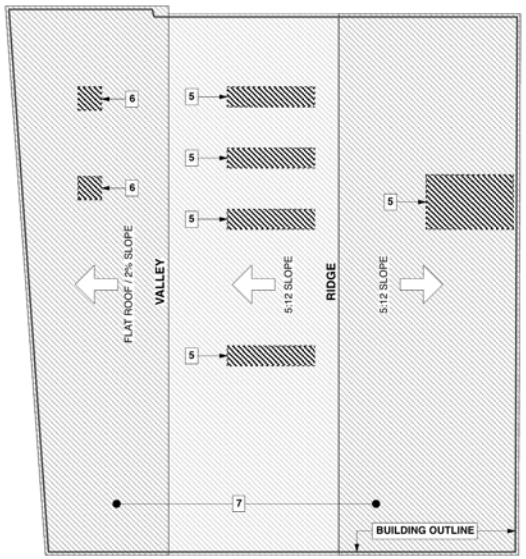
PROJECT TITLE:

SHEET TITLE:

DESIGNED BY: DLH
DRAWN BY: LH
CHECKED BY: DLH
APPROVED BY:
SCALE:
DATE: 5/30/2024
CITY SPECIFICATION NO. 2090649
PLAN FILE NO. / LOCATION
SHEET NO. A-8 of 65



1 DEMOLITION FLOOR PLAN
Scale: 1/8" = 1'-0"



2 DEMOLITION ROOF PLAN
Scale: 1/8" = 1'-0"

DEMOLITION REFERENCE NOTES:

1. REMOVE EXTERIOR WALL
2. REMOVE INTERIOR WALL
3. REMOVE WINDOWS
4. REMOVE DOORS
5. REMOVE SKYLIGHTS
6. REMOVE ROOF EQUIPMENT
7. REMOVE ROOF

DEMOLITION NOTES:

1. PRIOR TO DEMOLITION, ANY EROSION CONTROL METHODS REQUIRED SHOULD BE IN INSTALLED AND SUFFICIENTLY VERIFIED BY THE GENERAL CONTRACTOR.
2. HOURS OF DEMOLITION SHALL BE LIMITED FROM 7:00 AM TO 7:00 PM, MONDAY THROUGH FRIDAY.
3. PEDESTRIANS SHALL BE PROTECTED FROM CONSTRUCTION / DEMOLITION AS STATED IN CBC CHAPTER 33, SECTION 3306.
4. DUST CONTROL MEASURES SHALL BE IN EFFECT CONTINUOUSLY DURING DEMOLITION AS TO LIMIT THE AMOUNT OF AIRBORNE DEBRIS AND DUST.
5. MATERIAL AND CONSTRUCTION DEBRIS TO BE HAULED OFF SITE SHALL BE SUFFICIENTLY COVERED OR TARPPED AS TO NOT ALLOW ANY MATERIAL TO LEAVE THE VEHICLE WHILE ON ANY PUBLIC RIGHT-OF-WAY.
6. MATERIAL AND CONSTRUCTION DEBRIS TO BE HAULED OFF SITE SHALL BE RECYCLED OR DISPOSED OF PROPERLY IN AN APPROVED MEANS .
7. CAP ALL UTILITIES AS NECESSARY PRIOR TO ANY PLUMBING, ELECTRICAL OR GAS DISCONNECT.
8. REMOVE ALL DEBRIS AND TRASH FROM PREMISES AND REMOVE FROM SITE DAILY.
9. COORDINATE WITH OWNER PRIOR TO REMOVAL OF ANY EQUIPMENT, FURNITURE OR STRUCTURE.
10. SAFEGUARDS DURING CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CFC. COMBUSTIBLE CONSTRUCTION DEBRIS SHALL NOT BE PERMITTED TO ACCUMULATE WITHIN THE BUILDING AND SHALL BE REMOVED DAILY.
11. VERIFY ALL ITEMS TO BE DEMOLISHED WITH OWNER PRIOR TO COMMENCING DEMOLITION. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND IMMEDIATELY
12. VERIFY AS BUILT CONDITION IN FIELD PRIOR TO CONSTRUCTION/ DEMOLITION.
13. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES FOUND BETWEEN THE PLANS AND THE AS BUILT CONDITION.
14. VERIFY FRAMING MEMBER SIZES AND DIRECTION AND NOTIFY ARCHITECT/ENGINEER WITH DISCREPANCIES.
15. VERIFY ALL PLUMBING LOCATIONS WITH OWNER PRIOR TO CONSTRUCTION/DEMOLITION AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
16. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
17. A 'CONSTRUCTION AND DEMOLITION RECYCLING PLAN AND DISPOSAL REPORT' SHALL BE COMPLETED BY CONTRACTOR, AND SUBMITTED TO THE COUNTY OF SAN LUIS OBISPO, AS REQUIRED.
18. DUST CONTROL SHALL BE MAINTAINED TO THE SATISFACTION OF THE COUNTY OF SAN LUIS OBISPO
19. CONSTRUCTION NOISE WILL COMPLY WITH THE MUNICIPAL CODE SECTION 9.12 AND IS LIMITED TO THE HOURS SPECIFIED IN THE NOISE REGULATIONS.
20. THE APPLICATION SHALL HAVE THE SEWER LATERAL TELEVISED. THE APPLICATION SHALL SUBMIT A VIDEO INSPECTION OF THE LATERAL(S) TO THE BUILDING DEPARTMENT FOR REVIEW.
21. FIRE SAFETY DURING CONSTRUCTION: BUILDINGS UNDERGOING CONSTRUCTION , ALTERATION, OR DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 14 OF THE CFC.
22. EXISTING TREES TO BE REMOVED AND SHALL BE VERIFIED WITH THE OWNERS.
23. REMODELING OR DEMOLITION OF A PRE-1978 STRUCTURES WITHOUT USING LEAD SAFE WORK PRACTICES IS A VIOLATION OF THE CALIFORNIA HEALTH AND SAFEXXTY CODE SECTION 105256. CONTRACTORS, REMODELERS, AND PAINTERS ARE REQUIRED TO USE 'LEAD-SAFE' WORK PRACTICES PURSUANT TO TITLE 17, CALIFORNIA CODE OF REGULATIONS SECTION 36050. CONSTRUCTION DEBRIS KNOWN TO CONTAIN LEAD BASED PAINT MUST BE DISPOSED AT AN APPROVED LOCATION.

DEMOLITION SCOPE OF WORK:

1. DEMOLITION OF EXTERIOR WALLS
2. DEMOLITION OF ROOF STRUCTURE
3. DEMOLITION OF EXTERIOR RETAINING WALL
4. CONCRETE SLAB TO BE REMOVED
5. EXPOSED TRUSSES TO BE REMOVED
6. CAP UTILITIES PRIOR TO ANY PLUMBING, ELECTRICAL, OR GAS DISCONNECT (UTILITIES NOT SHOWN. SEE CIVIL SHEETS FOR UTILITY PLAN)

DEMOLITION WALL LEGEND:

WALLS TO BE DEMOLISHED

DOORS TO BE DEMOLISHED

WINDOWS TO BE DEMOLISHED

ROOF TO BE DEMOLISHED

PROTECTION OF PEDESTRIANS - CBC CHAPTER 33 - SECTION 3306

Protection required
Pedestrians shall be protected during construction, remodeling and demolition activities as required by this chapter and Table 3306.1. Signs shall be provided to direct pedestrian traffic.

Walkways
A walkway shall be provided for pedestrian travel in front of every construction and demolition site unless the authority having jurisdiction authorizes the sidewalk to be fenced or closed. Walkways shall be of sufficient width to accommodate the pedestrian traffic, but in no case shall they be less than 4 feet (1219 mm) in width. Walkways shall be provided with a durable walking surface. Walkways shall be accessible in accordance with Chapter *11A or 11B* and shall be designed to support all imposed loads and in no case shall the design live load be less than 150 pounds per square foot (psf).

Directional barricades
Pedestrian traffic shall be protected by a directional barricade where the walkway extends into the street. The directional barricade shall be of sufficient size and construction to direct vehicular traffic away from the pedestrian path.

Construction railings
Construction railings shall be at least 42 inches (1067 mm) in height and shall be sufficient to direct pedestrians around construction areas.

Barriers
Barriers shall be a minimum of 8 feet (2438 mm) in height and shall be placed on the side of the walkway nearest the construction. Barriers shall extend the entire length of the construction site. Openings in such barriers shall be protected by doors which are normally kept closed.

Barrier design.
Barriers shall be designed to resist loads required in Chapter 16 unless constructed as follows:

1. Barriers shall be provided with 2-inch by 4-inch (51 mm by 102 mm) top and bottom plates.
2. The barrier material shall be a minimum of 3/4-inch (19.1 mm) boards or ?-inch (6.4 mm) wood structural use panels.
3. Wood structural use panels shall be bonded with an adhesive identical to that for exterior wood structural use panels.
4. Wood structural use panels 1/4 inch (6.4 mm) or 5/16 inch (23.8 mm) in thickness shall have studs spaced not more than 2 feet (610 mm) on center (o.c.).
5. Wood structural use panels 3/8 inch (9.5 mm) or 1/2 inch (12.7 mm) in thickness shall have studs spaced not more than 4 feet (1219 mm) o.c., provided a 2-inch by 4-inch (51 mm by 102 mm) stiffener is placed horizontally at midheight where the stud spacing exceeds 2 feet (610 mm) o.c.
6. Wood structural use panels 5/8 inch (15.9 mm) or thicker shall not span over 8 feet (2438 mm).

TABLE 3306.1
PROTECTION OF PEDESTRIANS

HEIGHT OF CONSTRUCTION	DISTANCE FROM CONSTRUCTION TO LOT LINE	TYPE OF PROTECTION REQUIRED
8 FEET OR LESS	LESS THAN 5 FEET	CONSTRUCTION RAILINGS
	5 FEET OR MORE	NONE
MORE THAN 8 FEET	LESS THAN 5 FEET	BARRIER AND COVERED WALKWAY
	5 FEET OR MORE, BUT NOT MORE THAN ONE-FOURTH THE HEIGHT OF CONSTRUCTION	BARRIER AND COVERED WALKWAY
	5 FEET OR MORE, BUT BETWEEN ONE-FOURTH AND ONE-HALF THE HEIGHT OF CONSTRUCTION	BARRIER
	5 FEET OR MORE, BUT EXCEEDING ONE-HALF THE HEIGHT OF CONSTRUCTION	NONE

Covered walkways
Covered walkways shall have a minimum clear height of 8 feet (2438 mm) as measured from the floor surface to the canopy overhead. Adequate lighting shall be provided at all times. Covered walkways shall be designed to support all imposed loads. In no case shall the design live load be less than 150 psf (7.2 kN/m2) for the entire structure.

Exception: Roofs and supporting structures of covered walkways for new, light-frame construction not exceeding two stories in height are permitted to be designed for a live load of 75 psf (3.6 kN/m2) or the loads imposed on them, whichever is greater. In lieu of such designs, the roof and supporting structure of a covered walkway are permitted to be constructed as follows:

1. Footings shall be continuous 2-inch by 6-inch (51 mm by 152 mm) members.
2. Posts not less than 4 inches by 6 inches (102 mm by 152 mm) shall be provided on both sides of the roof and spaced not more than 12 feet (3658 mm) o.c.
3. Stringers not less than 4 inches by 12 inches (102 mm by 305 mm) shall be placed on edge upon the posts.
4. Joists resting on the stringers shall be at least 2 inches by 8 inches (51 mm by 203 mm) and shall be spaced not more than 2 feet (610 mm) o.c.
5. The deck shall be planks at least 2 inches (51 mm) thick or wood structural panels with an exterior exposure durability classification at least 23/32 inch (18.3 mm) thick nailed to the joists.
6. Each post shall be knee braced to joists and stringers by 2-inch by 4-inch (51 mm by 102 mm) minimum members 4 feet (1219 mm) long.
7. A 2-inch by 4-inch (51 mm by 102 mm) minimum curb shall be set on edge along the outside edge of the deck.

Repair, maintenance and removal
Pedestrian protection required by this chapter shall be maintained in place and kept in good order for the entire length of time pedestrians may be endangered. The owner or the owner's agent, upon the completion of the construction activity, shall immediately remove walkways, debris and other obstructions and leave such public property in as good a condition as it was before such work was commenced.

Adjacent to excavations
Every excavation on a site located 5 feet (1524 mm) or less from the street lot line shall be enclosed with a barrier not less than 6 feet (1829 mm) high. Where located more than 5 feet (1524 mm) from the street lot line, a barrier shall be erected when required by the building official. Barriers shall be of adequate strength to resist wind pressure as specified in Chapter 16

CONTRACTOR TO SUPPLY THEIR OWN WATER FOR DUST CONTROL. ON-SITE WATER SERVICE CANNOT BE USED

CITY OF SAN LUIS OBISPO

MID-HIGUERA BYPASS

306 HIGUERA ST.- DEMOLITION PLANS

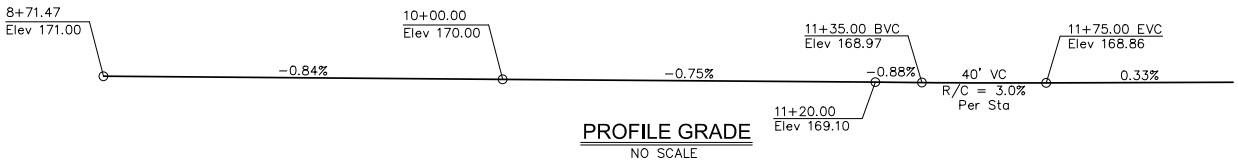
PROJECT TITLE:

SHEET TITLE:

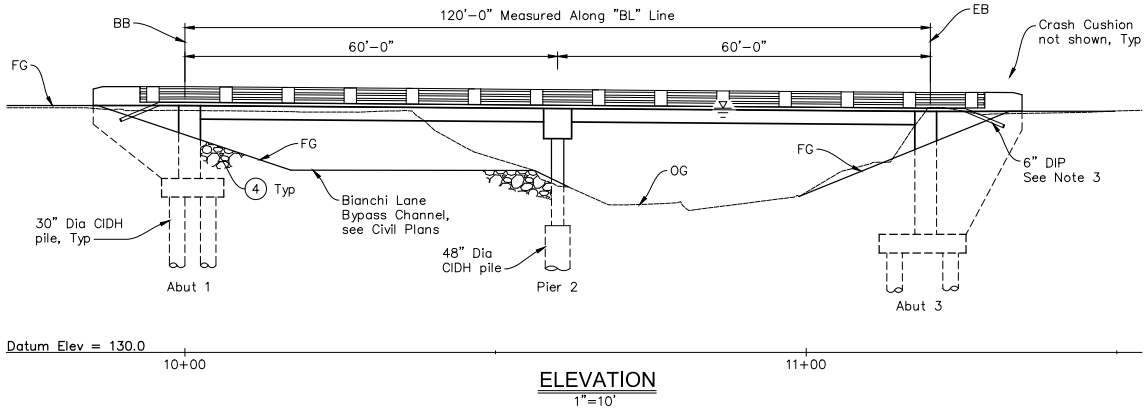
LICENSED ARCHITECT
DAGNY LEE HUNTER
C-38575
10-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

DESIGNED BY:	DLH
DRAWN BY:	LH
CHECKED BY:	DLH
APPROVED BY:	
SCALE:	
DATE:	5/30/2024
CITY SPECIFICATION NO.	2090649
PLAN FILE NO. / LOCATION	
SHEET NO.	A-9 of 65

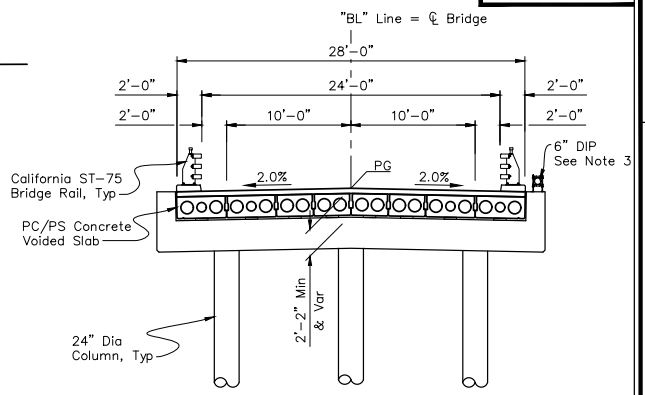
100% PLANS



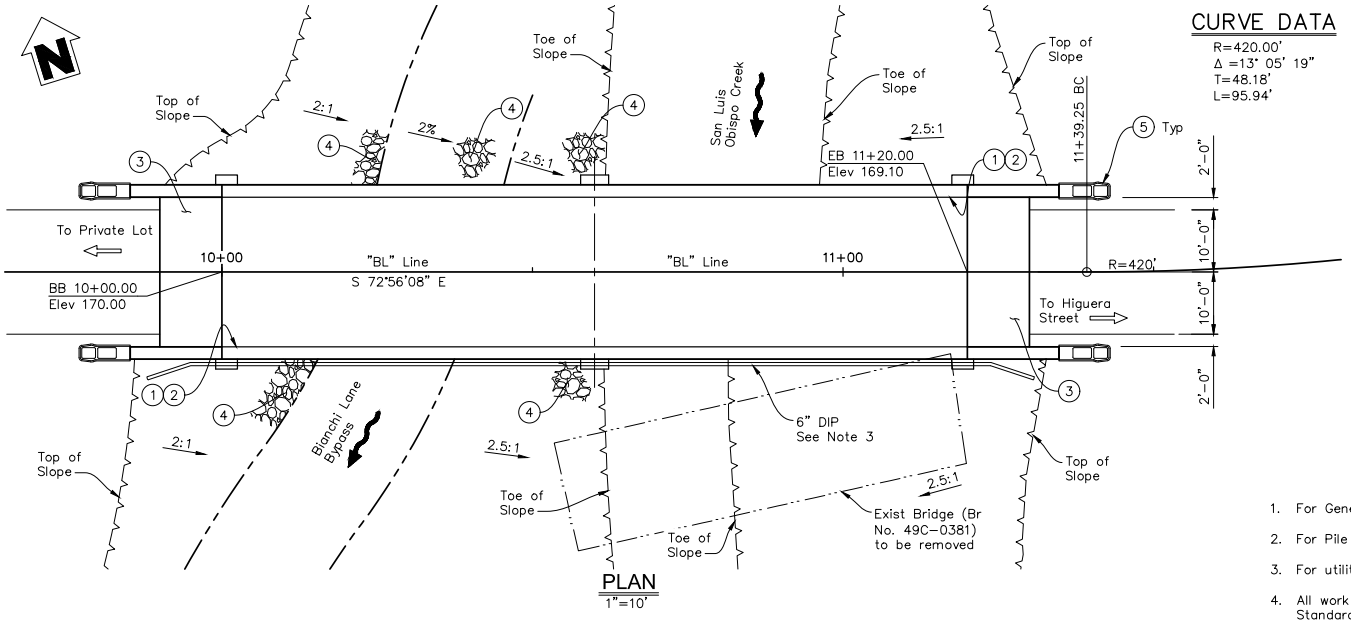
PROFILE GRADE
NO SCALE



ELEVATION
1"=10'



TYPICAL SECTION
1"=5'



PLAN
1"=10'

CURVE DATA
R=420.00'
Δ =13° 05' 19"
T=48.18'
L=95.94'

INDEX TO PLANS

Sheet No.	Title
S−1	General Plan
S−2	Deck Contours
S−3	Foundation Plan
S−4	Abutment 1 Layout
S−5	Abutment 3 Layout
S−6	Abutment Details
S−7	Pier Layout
S−8	Pier Details
S−9	Typical Section
S−10	PC PS Slab Layout
S−11	PC PS Slab Details
S−12	California ST−75 Bridge Rail (Mod) Details
S−13	Log of Test Borings

Legend:

1. Paint "San Luis Obispo Creek Bridge"
2. Paint "Bridge No. 49C0485"
3. Structure Approach Slab, Type EQ (10)
4. Rock Slope Protection, see Civil Plans
5. Crash Guard Cushion, see Civil Plans

Highwater Elevation, Q_{100} = 169.56
Existing Structure
Indicates direction of travel
Indicates direction of flow

1. For General Notes and Quantities, see "Deck Contours" sheet.
2. For Pile Data Table and Hydrologic Summary, see "Foundation Plan" sheet.
3. For utility location and information, see "Typical Section" sheet.
4. All work shown on "S" sheets must be done in accordance with Caltrans Standard Specifications dated 2023.

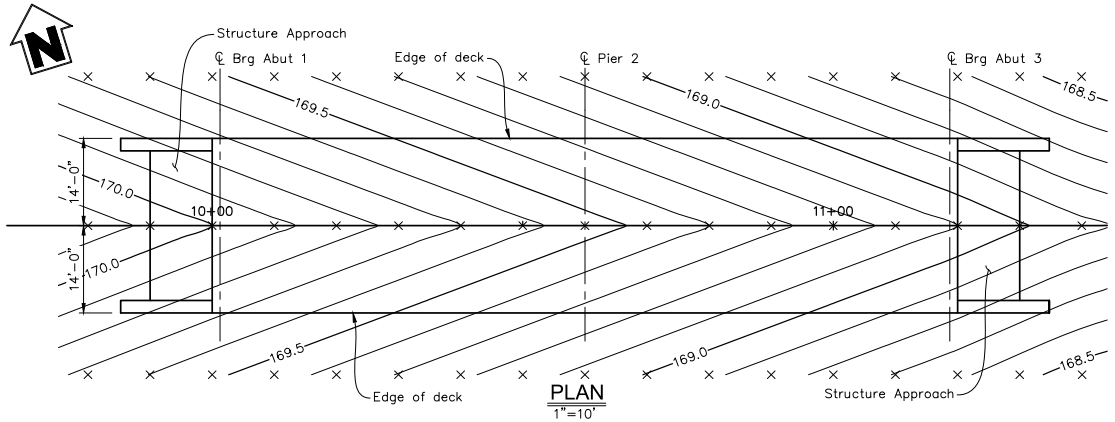
CITY OF SAN LUIS OBISPO

PROJECT TITLE: MID-HIGUERA BYPASS

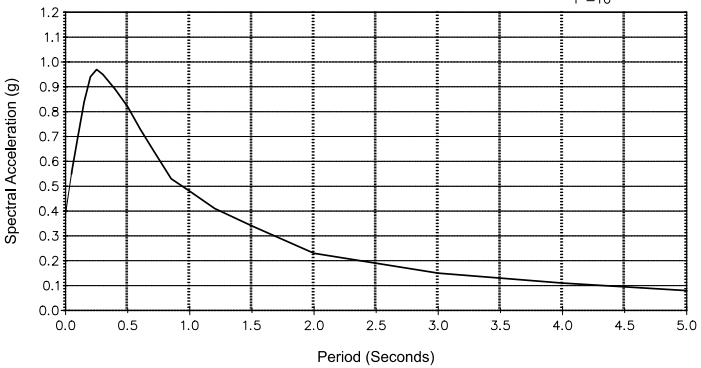
SHEET TITLE: BIANCHI BRIDGE - GENERAL PLAN

REGISTERED PROFESSIONAL ENGINEER SCOTT A. McCALLOCH No. C 71495 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	SMC
DRAWN BY:	PK
CHECKED BY:	SMC
APPROVED BY:	XX
SCALE:	AS SHOWN
DATE:	04/03/2019
CITY SPECIFICATION NO.	90649
PLAN FILE NO. / LOCATION	
SHEET NO.	S-1 of 65



PLAN
1"=10'



ACCELERATION RESPONSE SPECTRA CURVE
NO SCALE

QUANTITIES

Bridge Removal	Lump	Sum
Structure Excavation (Type A)	455	CY
Structure Excavation (Type D)	227	CY
Structure Backfill (Bridge)	375	CY
Permanent Steel Casing	3	EA
Temporary Shoring	Lump	Sum
30" Cast-In-Drilled-Hole Concrete Piling	347	LF
48" Cast-In-Drilled-Hole Concrete Piling	36	LF
30" Cast-In-Drilled-Hole (Rock Socket)	259	LF
48" Cast-In-Drilled-Hole (Rock Socket)	57	LF
Seal Course Concrete	61	CY
Structural Concrete, Bridge Footing	85	CY
Structural Concrete, Bridge	161	CY
Structural Concrete, Bridge (Polymer Fiber)	52	CY
Structural Concrete, Approach Slab (Type EQ)	18	CY
Furnish Precast Prestressed Concrete Slab (Type SIV)	3318	EA
Erect Precast Concrete Girder	8	EA
Joint Seal (MR = 1")	50	LF
Bar Reinforcing Steel (Bridge)	121930	LB
Miscellaneous Metal (Bridge)	200	LB
California ST-75 Bridge Rail (Mod)	299	LF
Tubular Bicycle Railing	271	LF

Notes:

X = 10' intervals along station line

Contours Intervals = 0.10'

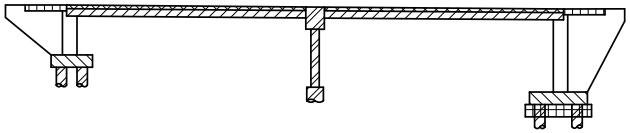
Contours do not include camber

STANDARD PLANS DATED 2023

	A3A	Abbreviations (Sheet 1 of 3)
	A3B	Abbreviations (Sheet 2 of 3)
	A3C	Abbreviations (Sheet 3 of 3)
	A10A	Legend - Lines and Symbols (Sheet 1 of 5)
	A10B	Legend - Lines and Symbols (Sheet 2 of 5)
	A10C	Legend - Lines and Symbols (Sheet 3 of 5)
	A10D	Legend - Lines and Symbols (Sheet 4 of 5)
	A10E	Legend - Lines and Symbols (Sheet 5 of 5)
	A10F	Legend - Soil (Sheet 1 of 2)
	A10G	Legend - Soil (Sheet 2 of 2)
	A10H	Legend - Rock
	A62C	Limits of Payment for Excavation and Backfill - Bridge
	B0-1	Bridge Details
	B0-3	Bridge Details
	B0-5	Bridge Details
	B0-13	Bridge Details
	B6-21	Joint Seals (Maximum Movement Rating = 2")
	B9-4	Structure Approach - Type EQ (10)
	B9-5	Structure Approach - Slab Details
	B9-6	Structure Approach - Drainage Details
RSP	B11-200	California ST-75 Bridge Rail Detail No. 1
RSP	B11-201	California ST-75 Bridge Rail Detail No. 2
RSP	B11-202	California ST-75 Bridge Rail Detail No. 3
RSP	B11-220	California Bridge Rail ST-75, ST-75SW, ST-76, And ST-76SW Post And Rail Details
RSP	B11-221	California Bridge Rail ST-75, ST-75SW, ST-76, And ST-76SW Rail Splice Details
RSP	B11-222	California Bridge Rail ST-75, ST-75SW, ST-76, And ST-76SW Parapet Shoe Details

CALTRANS STANDARD PLAN SHEET No.
DETAIL No.

RSP
REVISED CALTRANS STANDARD PLAN SHEET No.
DETAIL No.



Structural Concrete, Bridge (Abutments, Wingwalls)

Structural Concrete, Bridge (f'c = 4.0 ksi @ 28 days) (Pier Cap, Columns, Shafts)

Structural Concrete, Bridge (Polymer Fiber) (f'c = 4.5 ksi @ 28 days)

Structural Concrete, Approach Slab (Type EQ)

Structural Concrete, Bridge Footing

Precast Prestressed Slab, see "PC/PS Slab Layout" sheet for concrete strength requirements

Seal Course Concrete

CONCRETE STRENGTH AND TYPE LIMITS
NO SCALE

GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

DESIGN: AASHTO LRFD Bridge Design Specifications, 6th edition and the Caltrans Amendments, preface dated January 2014.

SEISMIC DESIGN: Caltrans Seismic Design Criteria (SDC), version 1.7, dated April 2013.

DEAD LOAD: Includes 35 psf for future wearing surface.

LIVE LOADING: HL93 and permit design load.

SEISMIC LOADING:
Soil profile V_{30} = 343 m/s
Moment Magnitude M_{max} = 6.8 m
Peak Ground Acceleration = 0.39 g
see ARS Curve.

REINFORCED CONCRETE:
f_y = 60 ksi

f'_c = 3.6 ksi

n = 8

PRESTRESSED CONCRETE:
See "Prestressing Notes" on "PC/PS Slab Layout" sheet.

CITY OF SAN LUIS OBISPO

MID-HIGUERA BYPASS

BIANCHI BRIDGE - DECK CONTOURS

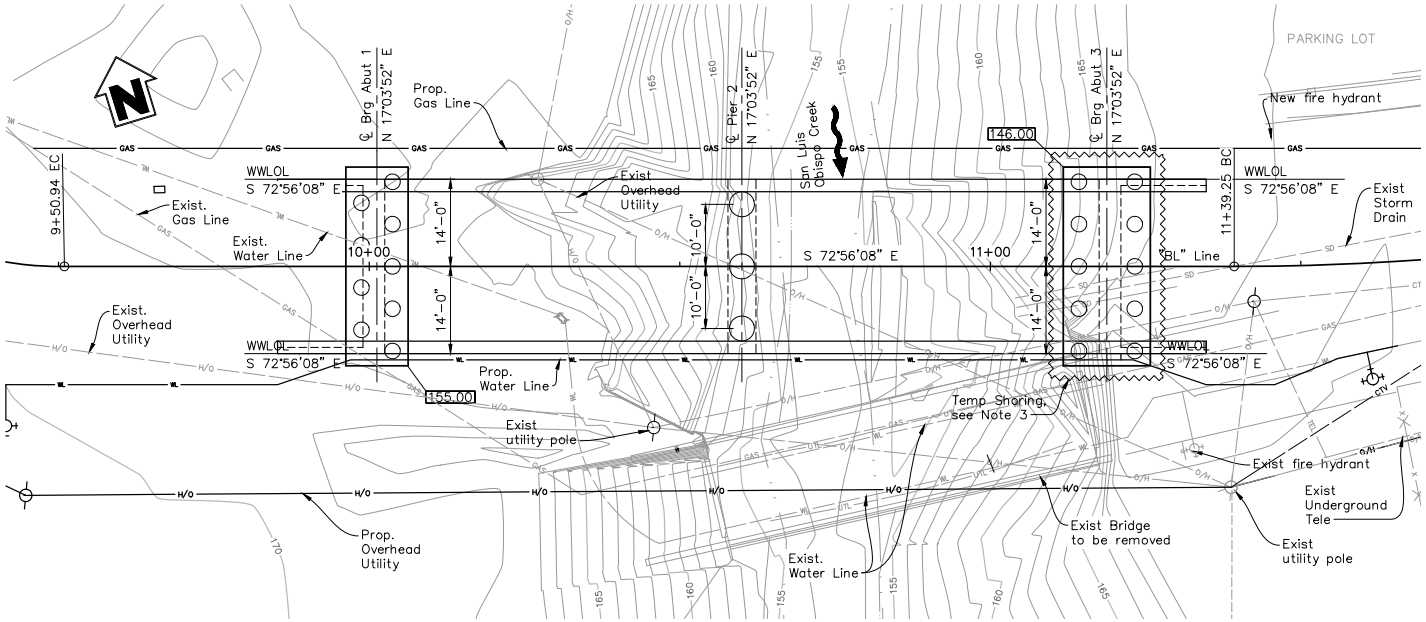
PROJECT TITLE

SHEET TITLE

REGISTERED PROFESSIONAL ENGINEER
SCOTT A. McCAULEY
No. C 71495
CIVIL
STATE OF CALIFORNIA

DESIGNED BY:	SMC
DRAWN BY:	PK
CHECKED BY:	SMC
APPROVED BY:	SMC
SCALE:	AS SHOWN
DATE:	04/03/2019
CITY SPECIFICATION NO.	90649
PLAN FILE NO. / LOCATION	
SHEET NO.	S-2 of 65

100% PLANS



PLAN
1"=10'

Legend:

X.X	Indicates bottom of footing elevation
○	Indicates Cast-In-Drilled-Hole piles
∿∿∿	Indicates Temporary Shoring, see Note 3

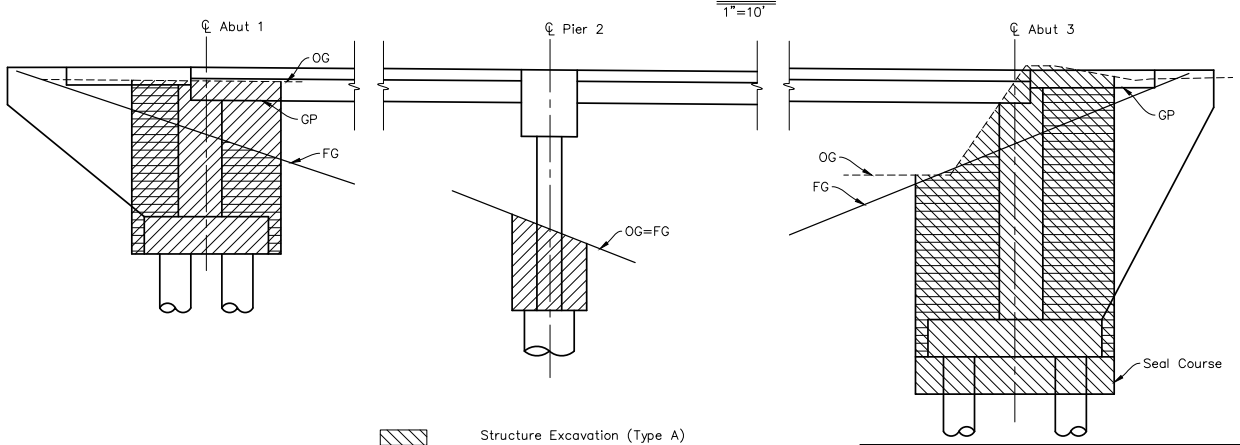
Notes:

1. For utility information, see Civil Plans.
2. Pile installation shall be sequenced in accordance with the project special provisions.
3. Temporary shoring may be required for bridge construction. Approximate limits shown, actual limits and design of temporary shoring are the responsibility of the Contractor.

HYDROLOGIC SUMMARY

Drainage area: 24.70 Square Miles

	Design Flood	Base Flood
Frequency (years)	50	100
Discharge (cubic feet per second)	11,265	12,501
Water Surface Elev at Bridge (ft)	169.22	169.56



Structure Excavation (Type A)
Structure Excavation (Type D)
Structure Backfill

LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL

NO SCALE

SCOUR DATA TABLE

SUPPORT NO.	LONG TERM (DEGRADATION AND CONTRACTION) SCOUR ELEVATION (ft)	SHORT TERM (LOCAL) SCOUR DEPTH (ft)
Abut 1	155.8	-
Pier 2	137.7	8.9
Abut 3	146.8	-

PILE DATA TABLE

LOCATION	PILE TYPE	PILE CUTOFF ELEVATION	NOMINAL RESISTANCE (kips)		DESIGN TIP ELEVATION (ft)	SPECIFIED TIP ELEVATION (ft)	MINIMUM ROCK SOCKET LENGTH (ft)
			COMPRESSION	TENSION			
Abut 1	30" CIDH	155.3	286	N/A	126 (1) 125 (3)	125	11
Pier 2	48" CIDH	148.0	1,000	N/A	117 (1) 122 (3)	117	19
Abut 3	30" CIDH	146.3	500	N/A	113 (1) 118 (3)	113	16

Notes: Design Tip Elevation is controlled by the following demands:
(1) Compression, (2) Tension, (3) Lateral Loads.

CITY OF SAN LUIS OBISPO

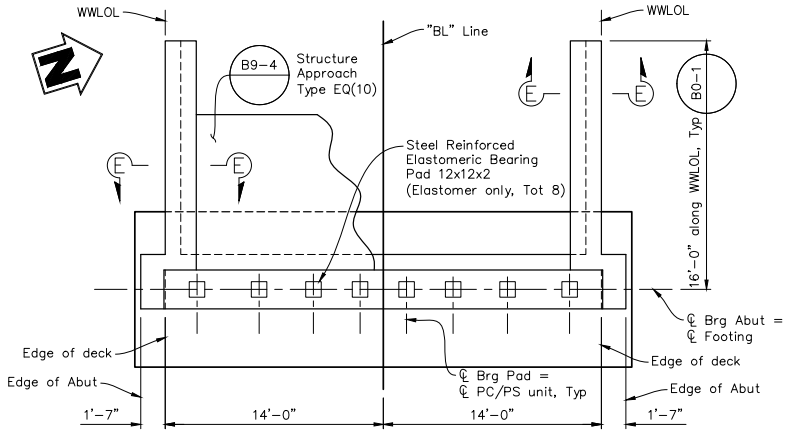
PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: BIANCHI BRIDGE - FOUNDATION PLAN

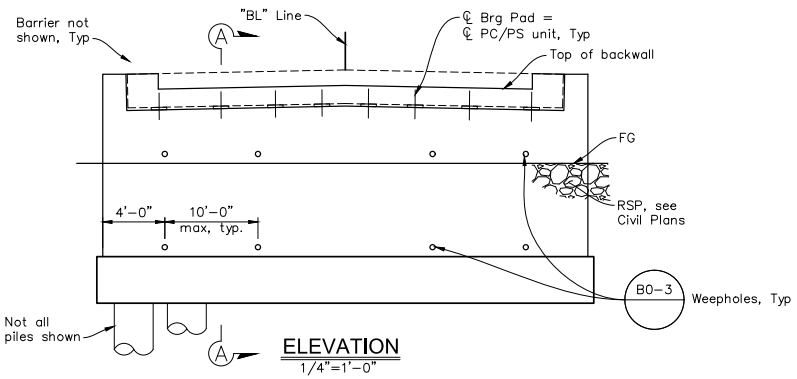
REGISTERED PROFESSIONAL ENGINEER SCOTT A. McCANDLESS No. C 71495 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	SMC
DRAWN BY:	PK
CHECKED BY:	SMC
APPROVED BY:	---
SCALE:	AS SHOWN
DATE:	04/03/2019
CITY SPECIFICATION NO.	90649
PLAN FILE NO. / LOCATION	
SHEET NO.	S-3 of 65

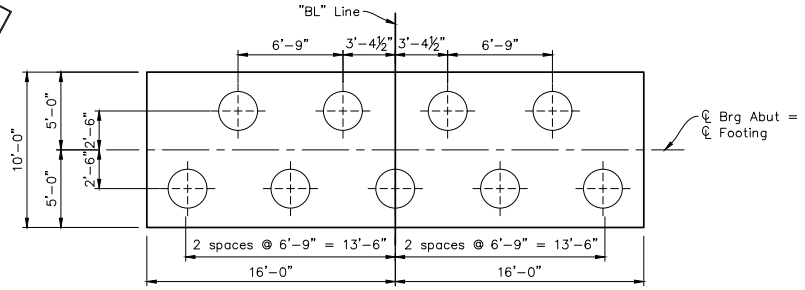
100% PLANS



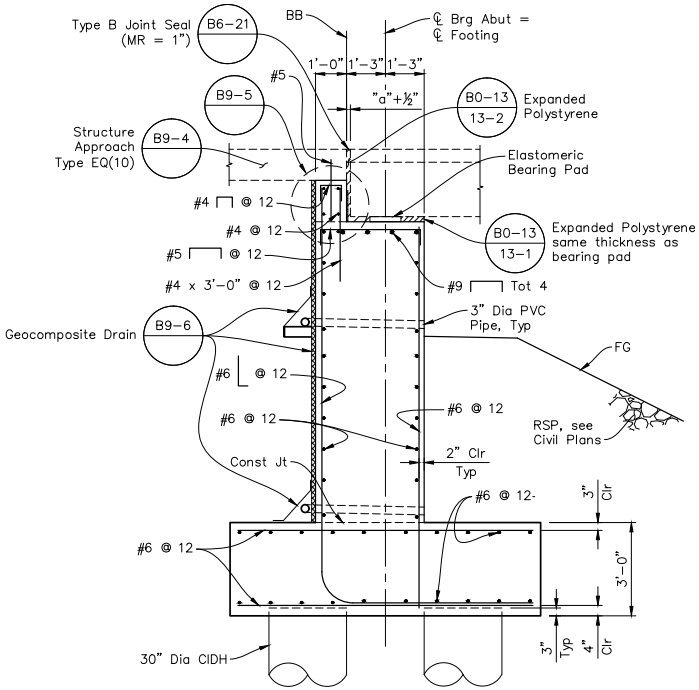
PLAN
1/4"=1'–0"



ELEVATION
1/4"=1'–0"



FOOTING PLAN
1/4"=1'–0"



SECTION A-A
1/2"=1'–0"

Notes:

1. For sections and details not shown, see Abutment Details sheets.

MID-HIGUERA BYPASS

BIANCHI BRIDGE - ABUTMENT 1 LAYOUT

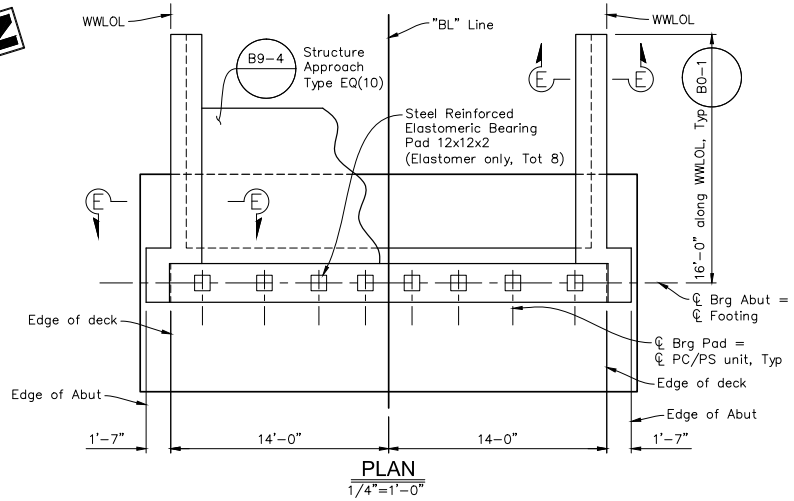
PROJECT TITLE:

SHEET TITLE:

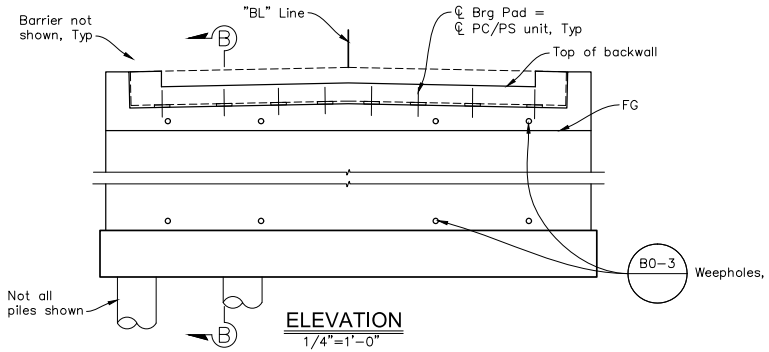
REGISTERED PROFESSIONAL ENGINEER SCOTT A. McCALLOUGH No. C 71495 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	SMC
DRAWN BY:	PK
CHECKED BY:	SMC
APPROVED BY:	---
SCALE:	AS SHOWN
DATE:	04/03/2019
CITY SPECIFICATION NO.	90649
PLAN FILE NO. / LOCATION	
SHEET NO.	S-4 of 65

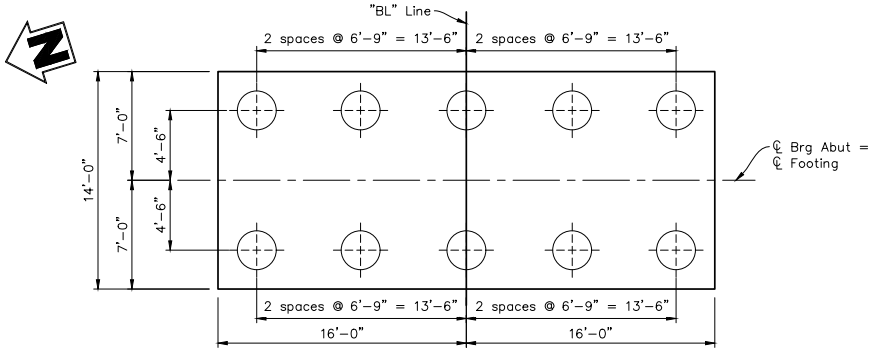
100% PLANS



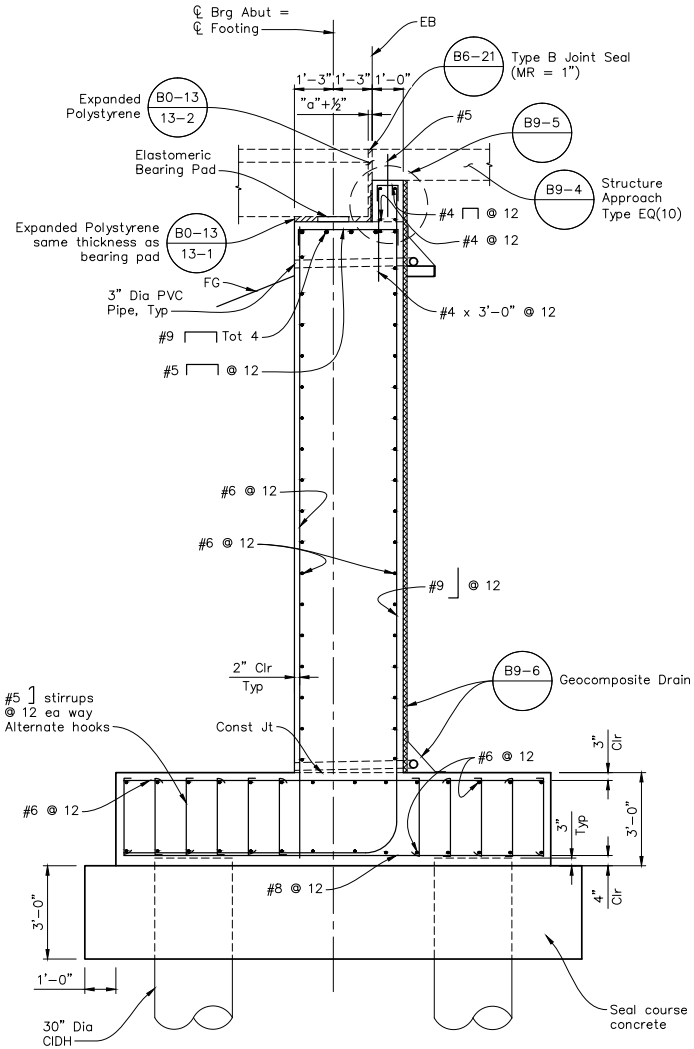
PLAN
1/4"=1'-0"



ELEVATION
1/4"=1'-0"



FOOTING PLAN
1/4"=1'-0"



SECTION B-B
1/2"=1'-0"

Notes:

1. For sections and details not shown, see Abutment Details sheets.

MID-HIGUERA BYPASS

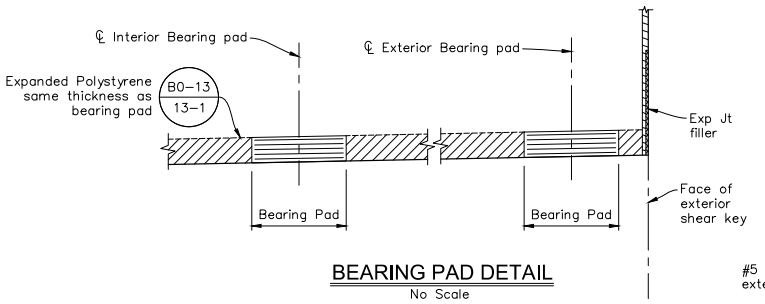
BIANCHI BRIDGE - ABUTMENT 3 LAYOUT

PROJECT TITLE:

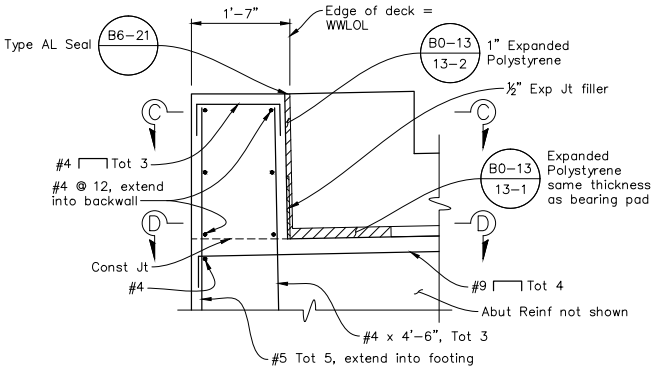
SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER SCOTT A. McCALLEN No. C 71495 CIVIL STATE OF CALIFORNIA

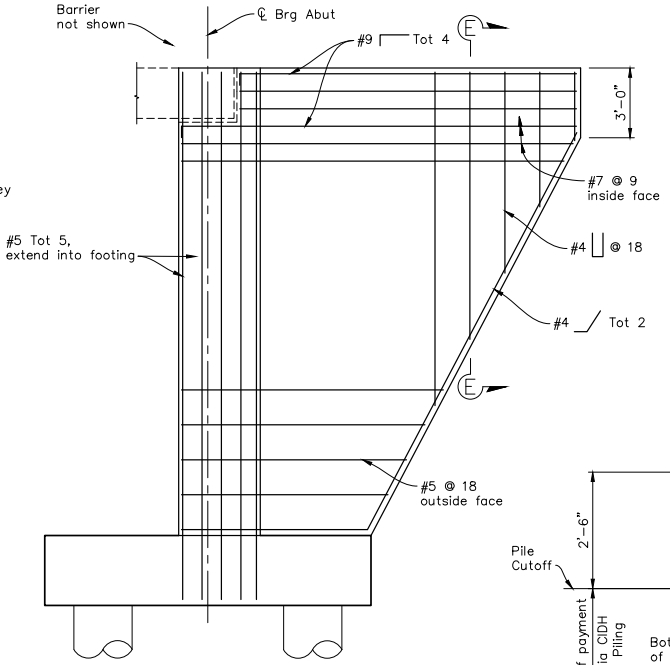
DESIGNED BY:	SMC
DRAWN BY:	PK
CHECKED BY:	SMC
APPROVED BY:	---
SCALE:	AS SHOWN
DATE:	04/03/2019
CITY SPECIFICATION NO.	90649
PLAN FILE NO. / LOCATION	
SHEET NO.	S-5 of 65



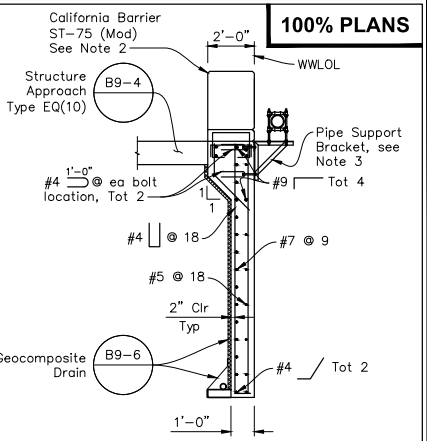
BEARING PAD DETAIL
No Scale



SHEAR KEY ELEVATION
1"=1'–0"



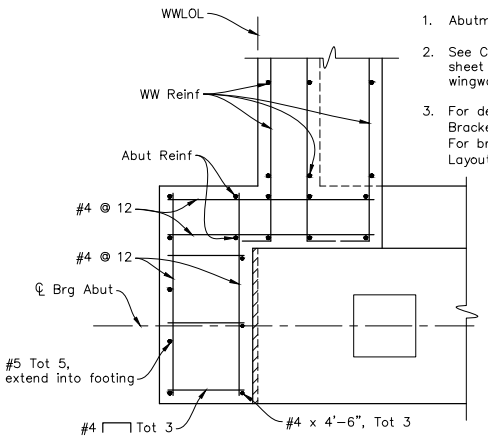
WINGWALL ELEVATION
3/8"=1'–0"
B0–1



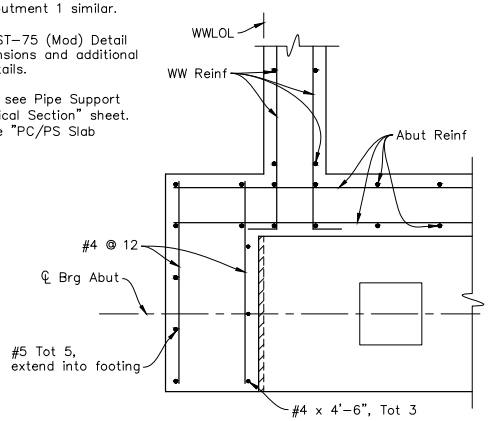
SECTION E-E
3/8"=1'–0"

Notes:

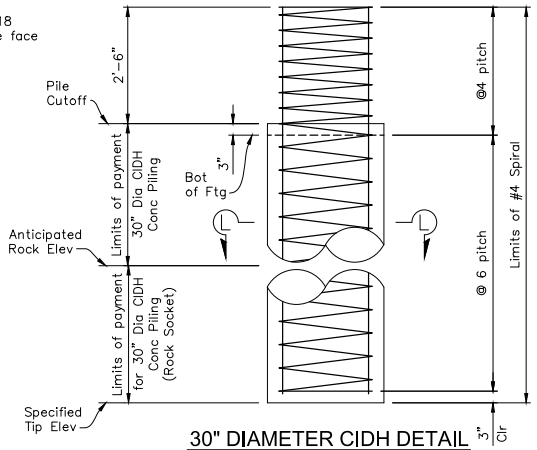
1. Abutment 3 shown, Abutment 1 similar.
2. See California Barrier ST–75 (Mod) Detail sheet for barrier dimensions and additional wingwall reinforcing details.
3. For details not shown, see Pipe Support Bracket Detail on "Typical Section" sheet. For bracket layout, see "PC/PS Slab Layout" sheet.



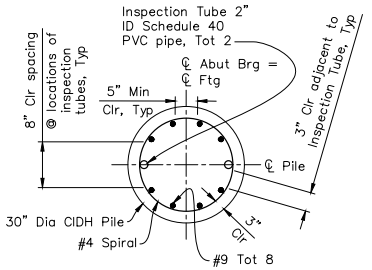
SECTION C-C
1"=1'–0"



SECTION D-D
1"=1'–0"



30" DIAMETER CIDH DETAIL
3/4"=1'–0"



SECTION L-L
3/4"=1'–0"

MID-HIGUERA BYPASS

BIANCHI BRIDGE - ABUTMENT DETAILS

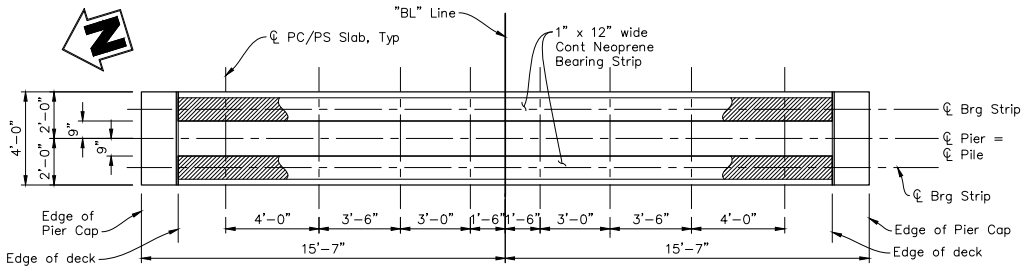
PROJECT TITLE:

SHEET TITLE:

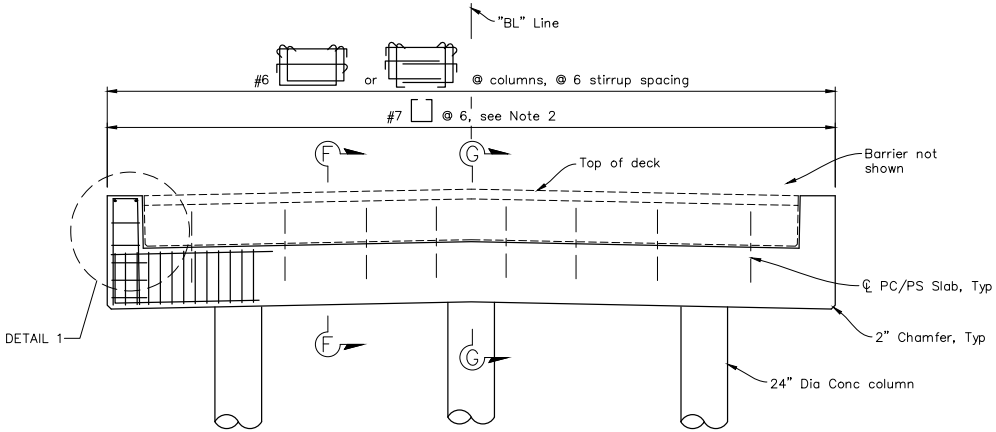
REGISTERED PROFESSIONAL ENGINEER SCOTT A. McCALLUM No. C 71495 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	SMC
DRAWN BY:	PK
CHECKED BY:	SMC
APPROVED BY:	---
SCALE:	AS SHOWN
DATE:	04/03/2019
CITY SPECIFICATION NO.	90649
PLAN FILE NO. / LOCATION	
SHEET NO.	S-6 of 65

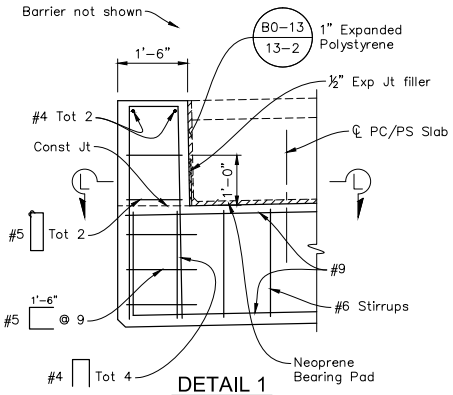
100% PLANS



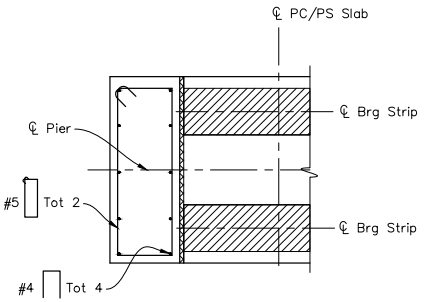
PLAN
3/8"=1'-0"



ELEVATION
3/8"=1'-0"



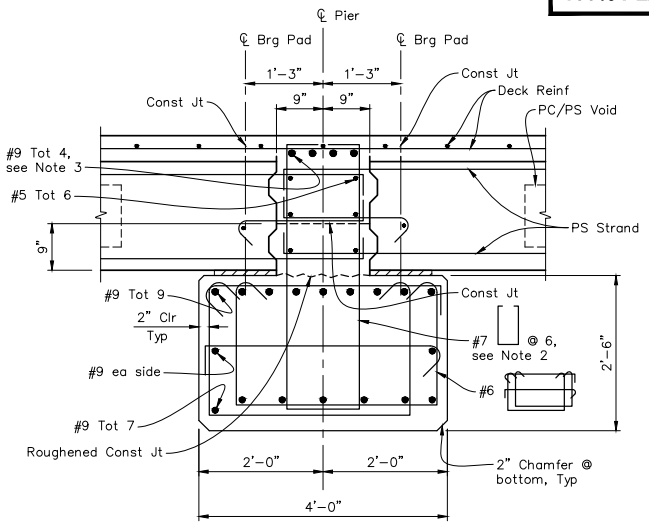
DETAIL 1
3/4"=1'-0"



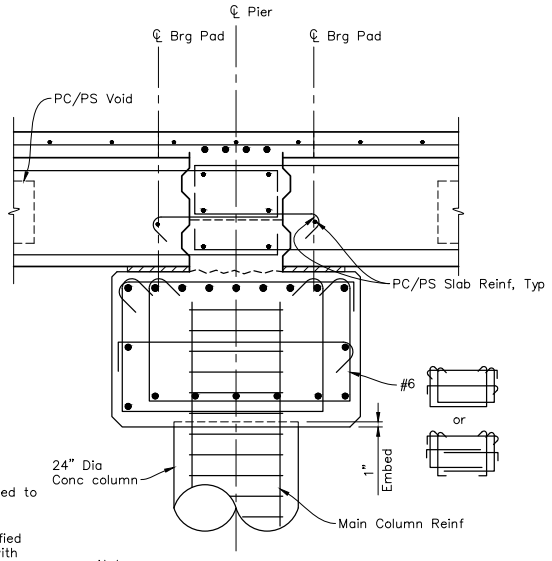
SECTION L-L
3/4"=1'-0"

Notes:

1. All construction joints shall be roughened to ¼" amplitude.
2. Spacing of reinforcement may be modified at column locations to avoid conflict with column reinforcement.
3. Reinforcement shall be placed under all deck reinforcement, including additional reinforcement shown, on Framing Plan detail on "PC/PS Slab Layout" sheet.



SECTION F-F
1"=1'-0"



Note:
For reinforcement details & dimensions not shown, see "Section F-F".

SECTION G-G
1"=1'-0"

MID-HIGUERA BYPASS

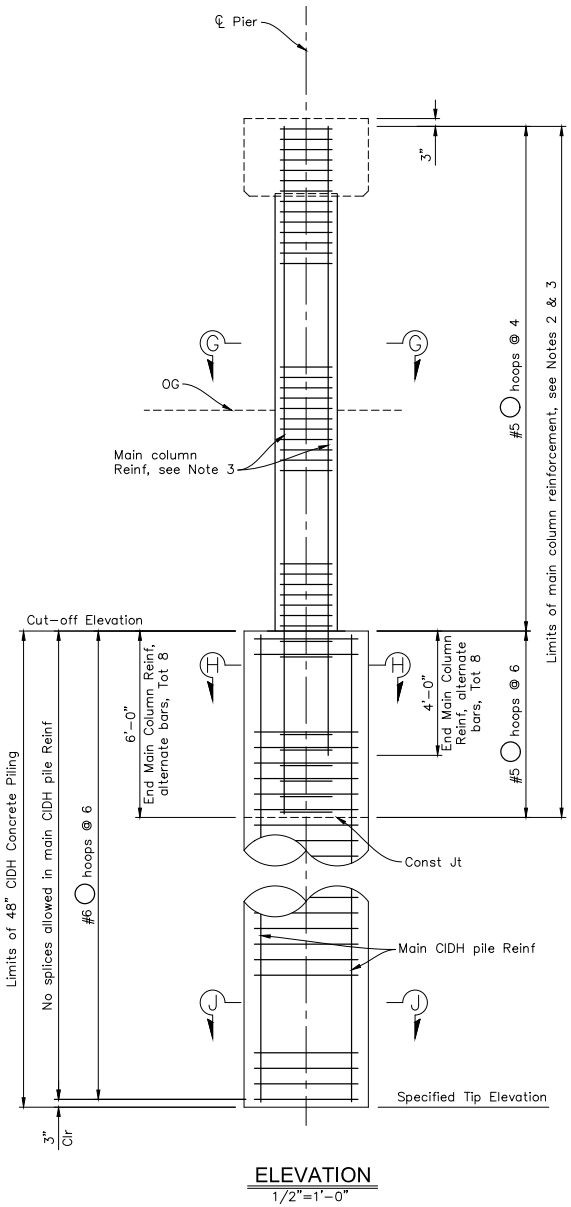
BIANCHI BRIDGE - PIER LAYOUT

PROJECT TITLE:

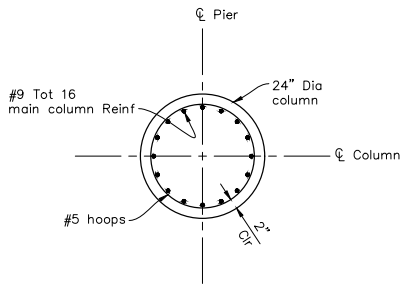
SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER
SCOTT A. McCALLOUGH
No. C 71495
CIVIL
STATE OF CALIFORNIA

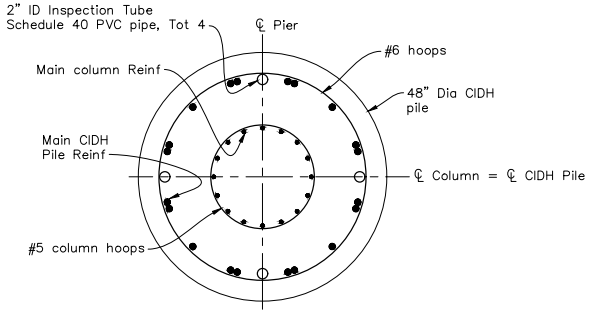
DESIGNED BY:	SMC
DRAWN BY:	PK
CHECKED BY:	SMC
APPROVED BY:	---
SCALE:	AS SHOWN
DATE:	04/03/2019
CITY SPECIFICATION NO.	90649
PLAN FILE NO. / LOCATION	
SHEET NO.	S-7 of 65



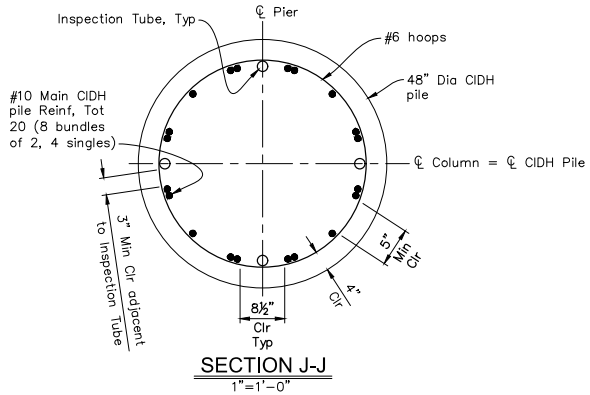
ELEVATION
1/2"=1'-0"



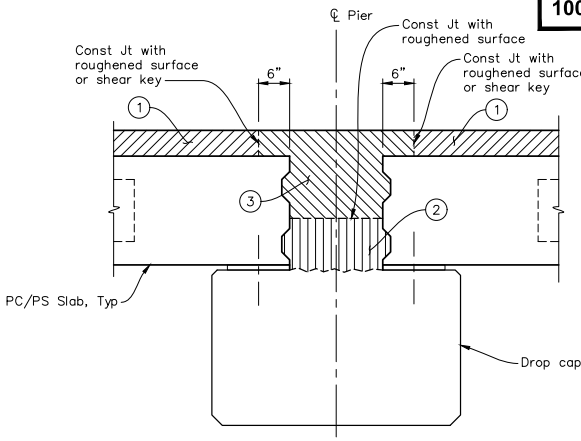
SECTION G-G
1"=1'-0"



SECTION H-H
1"=1'-0"



SECTION J-J
1"=1'-0"



Place deck concrete

Place bottom portion of diaphragm concrete no sooner than 90 days after girders have been cast.

Place remaining diaphragm concrete no sooner than 1 day after (1) and (2) have been placed.

No vehicle loading allowed on spans until 10 days after (3) has been placed.

DECK & DIAPHRAM CONCRETE PLACEMENT SEQUENCE
No Scale

Notes:

1. For pier cap reinforcement, see "Pier Layout" sheet.
2. All hoops shall be "Ultimate" Butt Spliced, continuous.
3. No splices allowed in main column or main pier cap reinforcement.
4. For CIDH pile data, see "Foundation Plan" sheet.

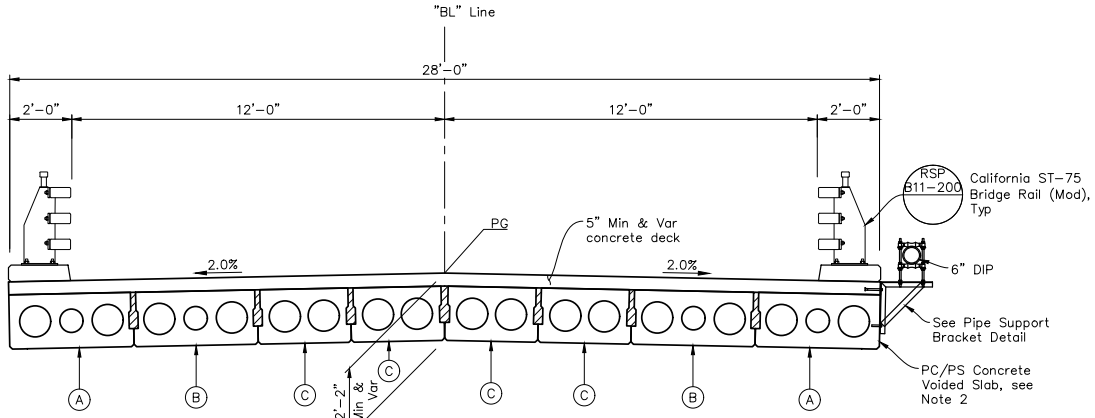
PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: BIANCHI BRIDGE - PIER DETAILS

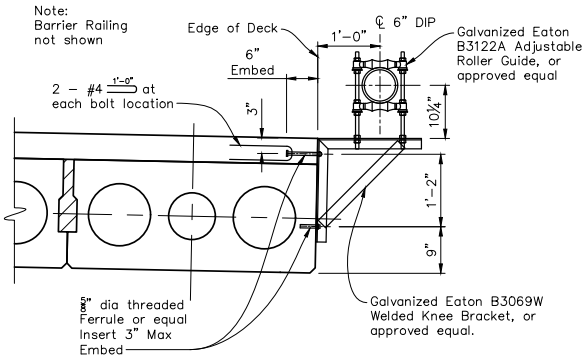
REGISTERED PROFESSIONAL ENGINEER SCOTT A. McCALLEY No. C 71495 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	SMC
DRAWN BY:	PK
CHECKED BY:	SMC
APPROVED BY:	---
SCALE:	AS SHOWN
DATE:	04/03/2019
CITY SPECIFICATION NO.	90649
PLAN FILE NO. / LOCATION	
SHEET NO.	S-8 of 65

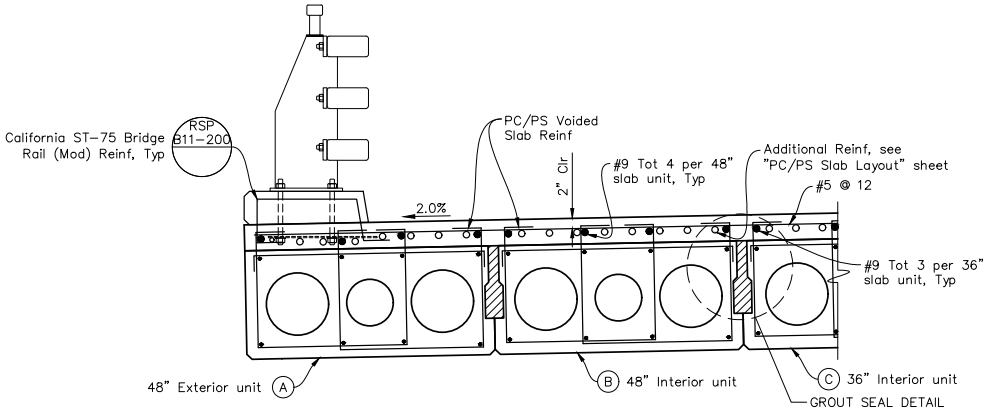
100% PLANS



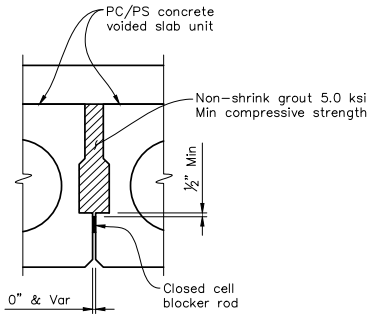
TYPICAL SECTION
1/2"=1'-0"



PIPE SUPPORT BRACKET DETAIL
1"=1'-0"



PART TYPICAL SECTION
1"=1'-0"



GROUT SEAL DETAIL
No Scale

Notes:

1. Voids do not extend into end diaphragms, unless otherwise shown.
2. For PC/PS Concrete Voided Slab details, see PC/PS Slab Details sheet.

Legend:

Grouted keyways

(X) Slab unit designation

MID-HIGUERA BYPASS

BIANCHI BRIDGE - TYPICAL SECTION

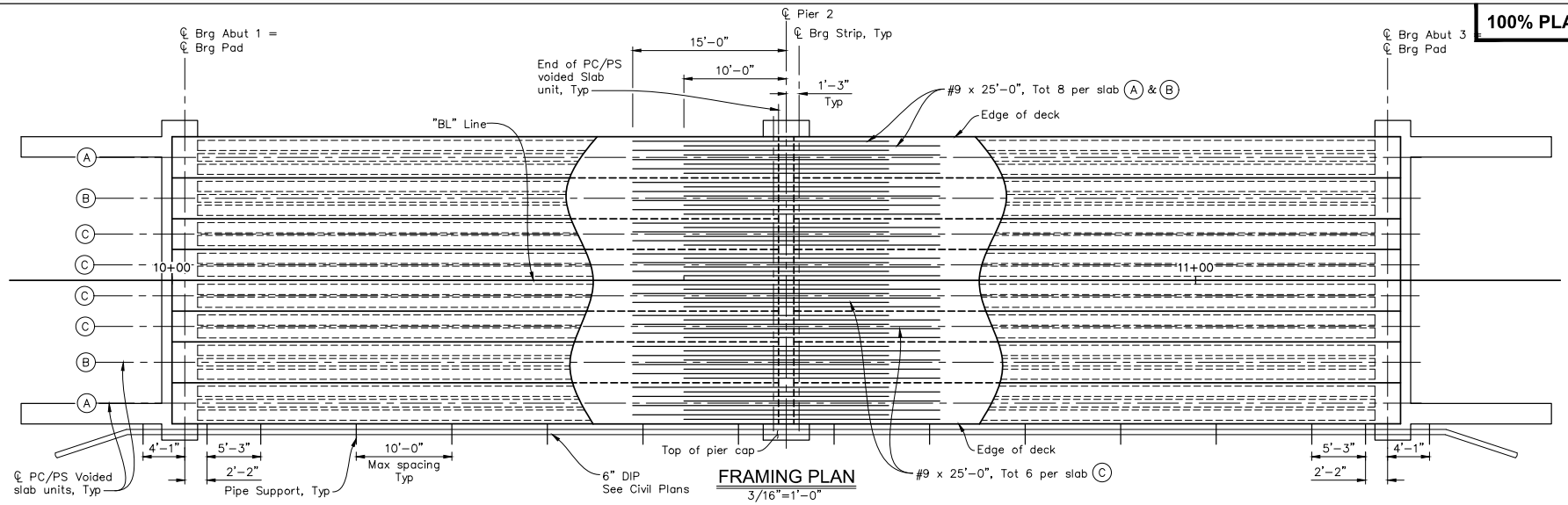
PROJECT TITLE:

SHEET TITLE:

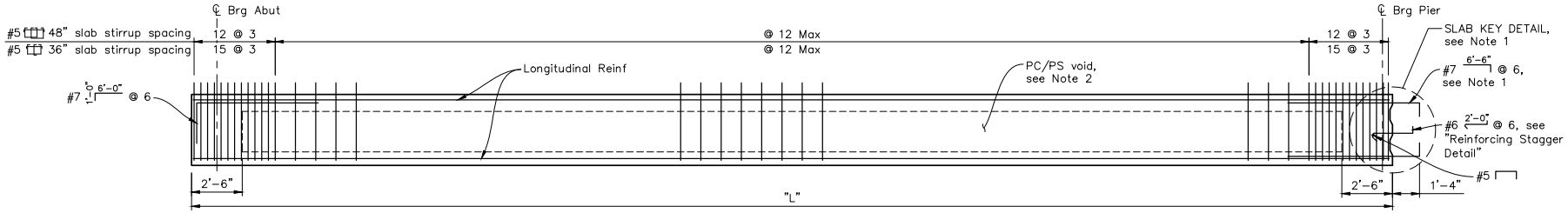
REGISTERED PROFESSIONAL ENGINEER SCOTT A. McCALLOUGH No. C 71495 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	SMC
DRAWN BY:	PK
CHECKED BY:	SMC
APPROVED BY:	---
SCALE:	AS SHOWN
DATE:	04/03/2019
CITY SPECIFICATION NO.	90649
PLAN FILE NO. / LOCATION	
SHEET NO.	S-9 of 65

100% PLANS



FRAMING PLAN
3/16"=1'–0"



LONGITUDINAL SLAB SECTION
No Scale

Note:
Span 1 shown, Span 2 similar.

PRESTRESSING NOTES

270 KSI Low Relaxation Strand:
The Jacking force (P_j) is the jacking force required at the point of control along the span. The jacking force does not include any losses.

Total Number of Girders = 8

Concrete: f'_c = 6.5 psi @ 28 days

f'_{ci} = 4.0 psi @ time of stressing

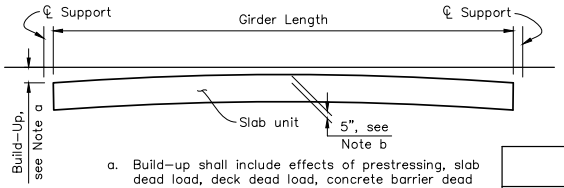
Debond: Length 5 ft at ends of 36" slab unit

Strands 40% of Bottom Row (36" Slab unit)

Deflection Components:
Informational to be used in setting screed elevations. Values shown are immediate deflections and do not account for long term effects. Contractor is responsible for determining time dependant deflections.

Screed line elevations for deck concrete will be determined by Engineer

The minimum clearance "S" between individual strands is 1½" for ⅜" Dia strands, 1¾" for ½" Dia strands and 2" for 0.6" Dia strands, "S" is measured between centers of adjacent strands.



a. Build–up shall include effects of prestressing, slab dead load, deck dead load, concrete barrier dead load, and roadway profile vertical curve. Estimated build–up values shown in table are informational only. Contractor to submit build–up calculations.

b. The specified deck thickness at midspans assumes that the slab fabrication and erection will meet required deck elevations. In case of variations, adjust seats to meet corrected elevation.

BUILD-UP DECK DETAIL
No Scale

ESTIMATED BUILD-UP (ft)

	(A) & (B)	(C)
DECK	0.42	0.42
CAMBER	0.04	0.04
VERTICAL CURVE	–	–
*BUILD–UP	0.46	0.50

* Build–up applies:
(1) Span 1
(2) Span 2

PC/PS VOIDED SLAB TABLE

SLAB DESIGNATION	GIRDER LENGTH "L"	JACKING FORCE Pj BOTTOM c.g. (kips)	JACKING FORCE Pj TOP c.g. (kips)	MIDSPAN DEAD LOAD DEFLECTION (in)			
				DECK	BARRIER	PRESTRESSING & SLAB (initial)	PRESTRESSING & SLAB (3 months after release)
(A) & (B)	59'–2"	700	175	–0.36	–0.03	0.09	0.09
(C)	59'–2"	615	130	–0.41	–0.04	0.44	0.71

Notes:

1. For sections and details not shown, see "PC/PS Slab Details" sheet.
2. Voids do not extend into end diaphragms, unless otherwise shown.

MID-HIGUERA BYPASS

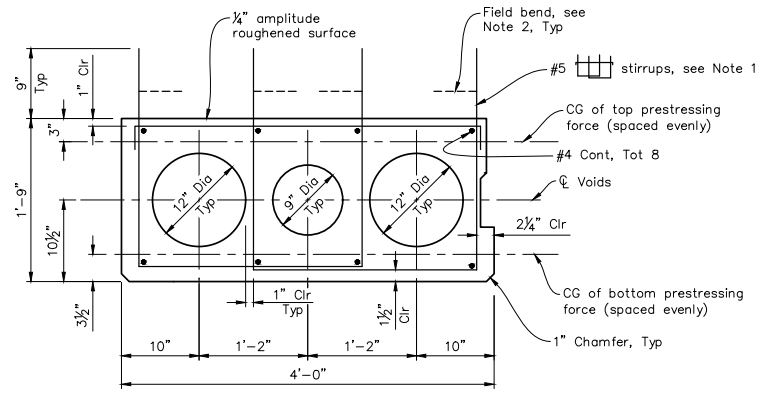
BIANCHI BRIDGE - PC/PS SLAB LAYOUT

PROJECT TITLE:

SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER SCOTT A. McCALLUM No. C 71495 CIVIL STATE OF CALIFORNIA

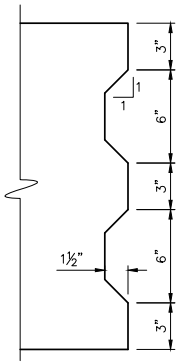
DESIGNED BY: SMC
DRAWN BY: PK
CHECKED BY: SMC
APPROVED BY: ---
SCALE: AS SHOWN
DATE: 04/03/2019
CITY SPECIFICATION NO. 90649
PLAN FILE NO. / LOCATION
SHEET NO. S-10 of 65



Note:
Left exterior slab unit shown, right exterior slab unit similar.

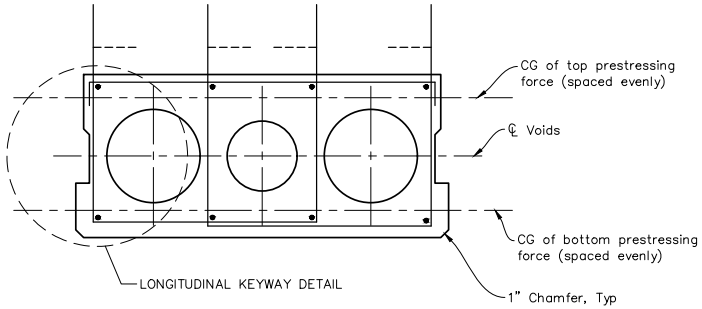
TYPICAL SECTION 48" EXTERIOR UNIT Ⓐ

1 1/2"=1'-0"



SLAB KEY DETAIL

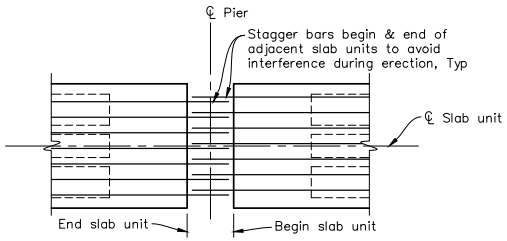
No Scale



Note:
For reinforcement and dimensions not shown, see "Typical Section 48" Exterior Unit Ⓐ"

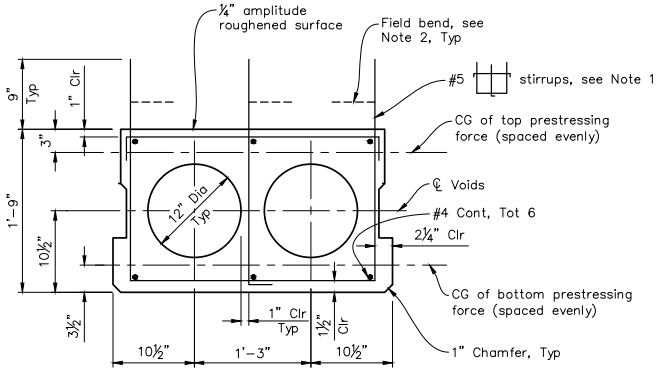
TYPICAL SECTION 48" INTERIOR UNIT Ⓑ

1 1/2"=1'-0"



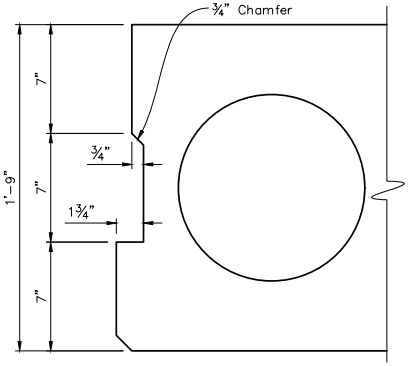
REINFORCING STAGGER DETAIL

1/2"=1'-0"



TYPICAL SECTION 36" INTERIOR UNIT Ⓒ

1 1/2"=1'-0"



LONGITUDINAL KEYWAY DETAIL

3"=1'-0"

Notes:

1. See "Typical Section" sheet for reinforcement layout and clearances not shown.
2. Slab stirrups to be field bent after slab unit are erected.

MID-HIGUERA BYPASS

BIANCHI BRIDGE - PC/PS SLAB DETAILS

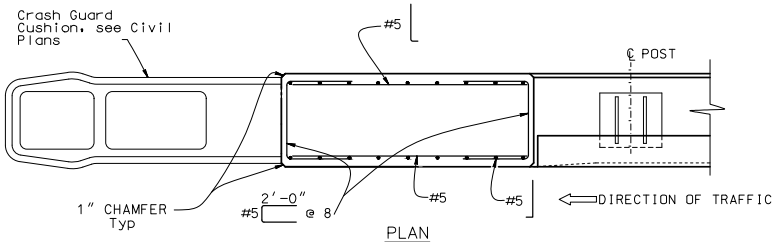
PROJECT TITLE:

SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER SCOTT A. McCALLEN No. C 71495 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	SMC
DRAWN BY:	PK
CHECKED BY:	SMC
APPROVED BY:	---
SCALE:	AS SHOWN
DATE:	04/03/2019
CITY SPECIFICATION NO.	90649
PLAN FILE NO. / LOCATION	
SHEET NO.	S-11 of 65

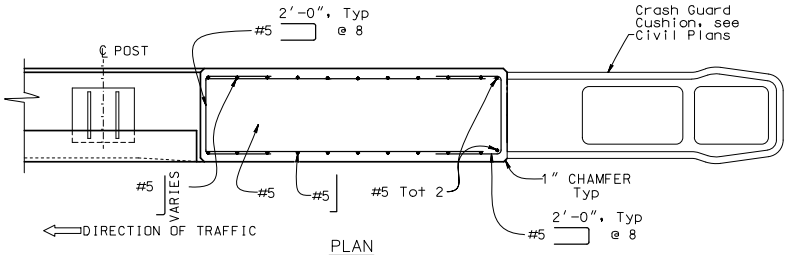
100% PLANS



PLAN

DEPARTURE END BLOCK

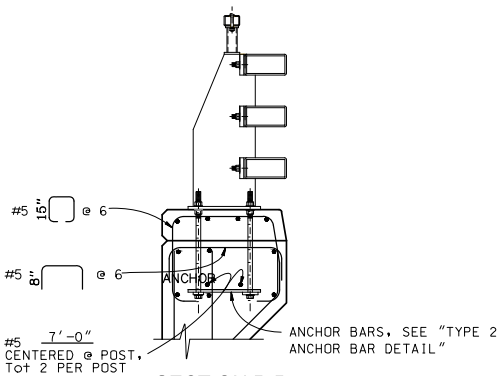
NO SCALE



PLAN

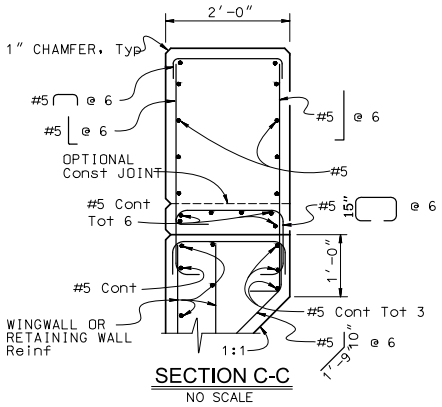
APPROACH TRANSITION BLOCK DETAIL

NO SCALE



SECTION B-B

NO SCALE

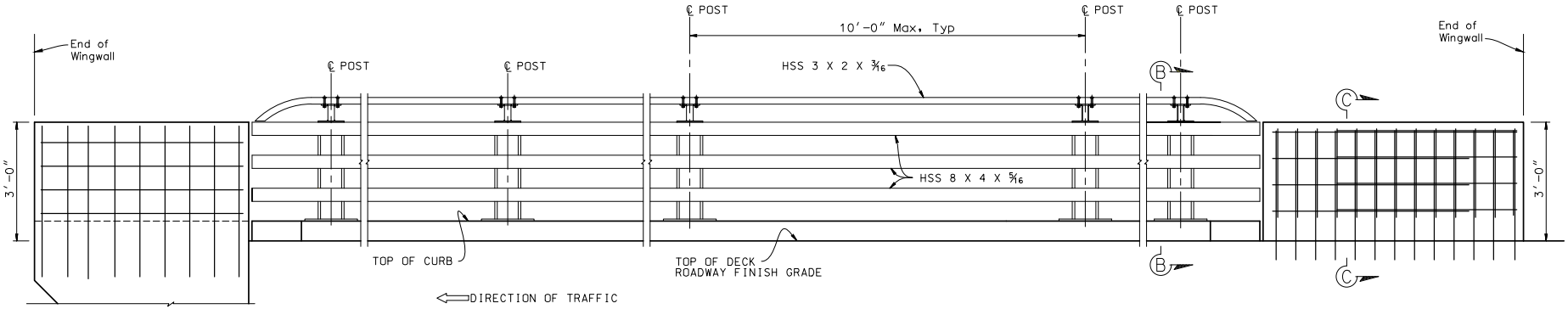


SECTION C-C

NO SCALE

Note:

1. For Details and Dimensions not shown, see Revised Standard Plan B11-201.



END BLOCK
(DEPARTURE)

ELEVATION

No Scale

END BLOCK
(APPROACH)

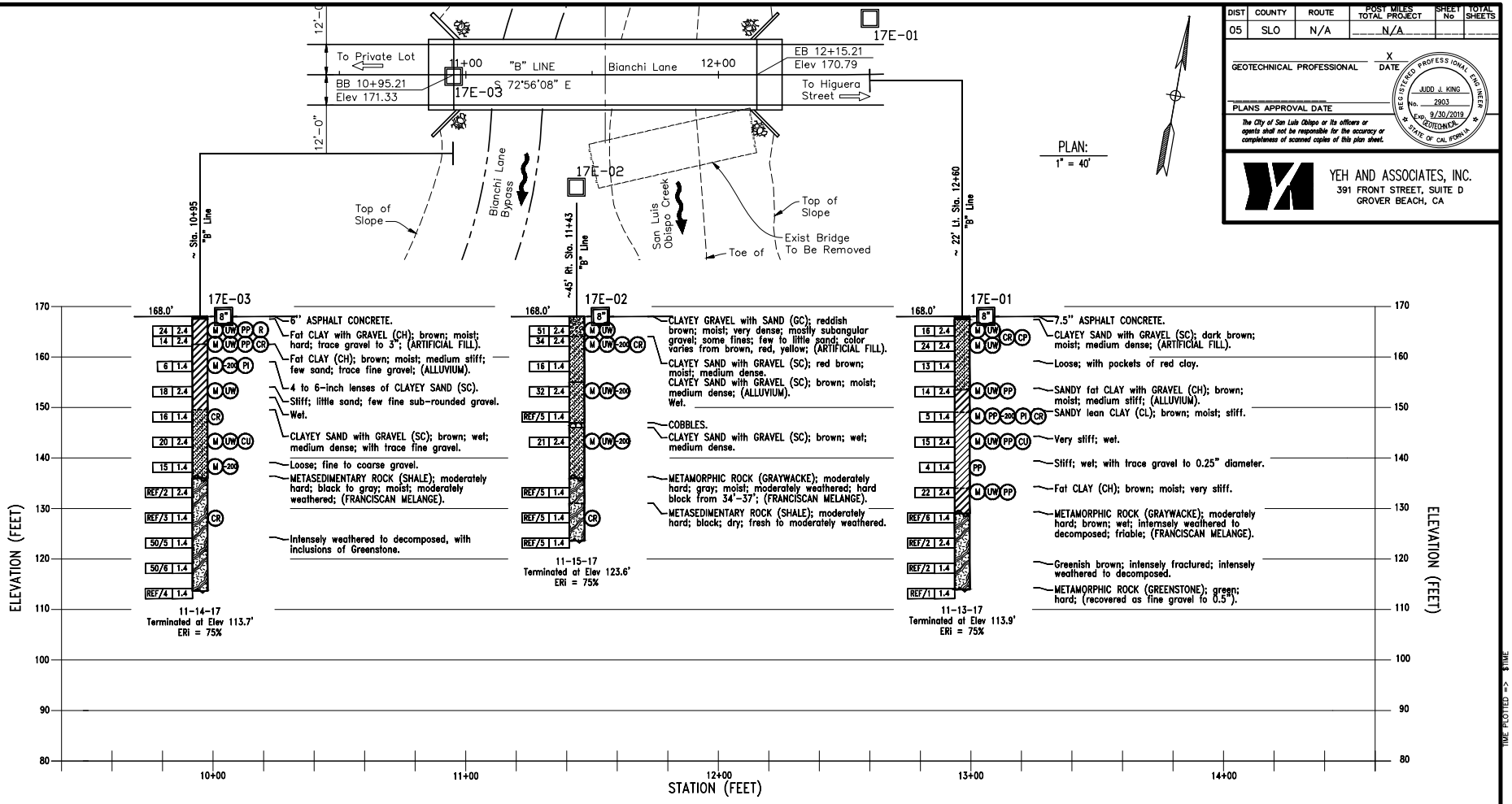
CITY OF SAN LUIS OBISPO

PROJECT TITLE: MID-HIGUERA BYPASS

SHEET TITLE: BIANCHI BRIDGE - CALIFORNIA ST-75 BRIDGE RAIL (MOD) DETAILS

REGISTERED PROFESSIONAL ENGINEER SCOTT A. McCANDLESS No. C 71495 Civil STATE OF CALIFORNIA

DESIGNED BY:	SMC
DRAWN BY:	PK
CHECKED BY:	SMC
APPROVED BY:	---
SCALE:	AS SHOWN
DATE:	04/03/2019
CITY SPECIFICATION NO.	90649
PLAN FILE NO. / LOCATION	
SHEET NO.	S-12 of 65



NOTES:

1. Auger borings excavated with a CME-75 drill rig equipped with 8 in. hollow stem augers and an automatic trip hammer weighing 140 pounds falling 30 inches with estimated 75% efficiency.
2. "1.4" Standard Penetration Test (SPT) sampler has a 1-3/8 in. inside diameter and a 2 in. outside diameter.
3. "2.4 sampler has a 2-3/8 in. inside diameter and a 3 in. outside diameter (modified Calif. sampler) with brass liners.
4. "ref/2" indicates drive exceeded 50 blows during initial 6 in. seating.
5. "90/11" indicates partial drive having number of blows over depth interval noted.
6. All blow counts are uncorrected field blow counts.
7. See 2010 Caltrans Standard Plans A10F, A10G, and A10H for legend
7 (cont.) .of soil and rock classification and boring notations.
8. This LOTB was prepared in accordance with the Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).

PROFILE:
Hor. 1" = 40'
Vert. 1" = 20'

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
05	SLO	N/A	N/A		

GEOTECHNICAL PROFESSIONAL — X — DATE
REGISTERED PROFESSIONAL ENGINEER — JUDD J. KING — No. 2903 — Exp. 9/30/2019 — GEOTECHNICAL — STATE OF CALIFORNIA
PLANS APPROVAL DATE
The City of San Luis Obispo or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

YEH AND ASSOCIATES, INC.
391 FRONT STREET, SUITE D
GROVER BEACH, CA

X DESIGN OVERSIGHT	DRAWN BY	J. CRAVENS	S. BOONE	PREPARED FOR THE CITY OF SAN LUIS OBISPO PUBLIC WORKS DEPARTMENT	J. KING PROJECT ENGINEER	BRIDGE NO. 49C0391	BIANCHI LANE BRIDGE
X SIGN OFF DATE	CHECKED BY	J. KING	FIELD INVESTIGATION BY: DATE: NOVEMBER 2017			POST MILES N/A	LOG OF TEST BORINGS (1 OF 1)

GS GEOTECHNICAL LOG OF TEST BORINGS SHEET (ENGLISH) (REV. 03/14/12)
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
UNIT: N/A
PROJECT NUMBER & PHASE: N/A
CONTRACT NO.: N/A
DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES
SHEET 1 OF 1
FILE => $REQUEST
USERNAME => $USER DATE PLOTTED => $DATE TIME PLOTTED => $TIME

SPECIAL PROVISIONS

FOR

CITY OF SAN LUIS OBISPO

Mid-Higuera Bypass Draft 100% Design

Specification No. 2090649

June 2024

PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

919 Palm Street
San Luis Obispo, CA 93401
(805) 781-7200

Mid-Higuera Bypass

Specification No. 2090649

Approval Date: <<date of CM or CAR Report Authorizing Advertisement>>

<<Engineer of Record Stamp>>

<<Signature Date>>

<<Signature Date>>

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NOTICE TO BIDDERS
BID SUBMISSION

Sealed bids will be received by the City of San Luis Obispo at the Public Works Administration Office located at 919 Palm Street, California 93401, until

2:00 p.m. on <<January 1, 2016>>

at which time they will be publicly opened and read aloud. Submit bid in a sealed envelope plainly marked:

Mid-Higuera Bypass, Specification No.2090649

Any bid received after the time and date specified will not be considered and will be returned to the bidder unopened. Bids received by Fax or Email will not be considered.

By submission of bid you agree to comply with all instruction and requirements in this notice and the contract documents.

All bids must be submitted on the Bid Item List form(s) provided and submitted with all other Bid Forms included in these Special Provisions.

Each bid must be accompanied by either a:

1. certified check
2. cashier's check
3. bidder's bond

made payable to the City of San Luis Obispo for an amount equal to ten percent of the bid amount as a guaranty. Guaranty will be forfeited to the City San Luis Obispo if the bidder, to whom the contract is awarded, fails to enter into the contract.

The City of San Luis Obispo reserves the right to accept or reject any or all bids or waive any informality in a bid.

All bids are to be compared based on the City Engineer's estimate of the quantities of work to be done, as shown on the Bid Item List.

Bids will only be accepted from bidders that are licensed in compliance with the provisions of Chapter 9, Division III of Business and Professions Code.

The award of the contract, if awarded, will be to the lowest responsive bid submitted by a responsible contractor whose bid complies with the requirements prescribed. If the contract is awarded, the contract will be awarded within 60 calendar days after the opening of the bids.

Failure to raise defects in the notice to bidders or bid forms prior to bid opening constitute a waiver of those defects.

BID DOCUMENTS

A copy of the plans and special provisions may be downloaded, free of charge, from the City's website at:

www.slocity.org/government/department-directory/public-works/public-works-bids-proposals

Standard Specifications and Engineering Standards referenced in the Special Provisions may be downloaded, free of charge, from the City's website at:

www.slocity.org/government/department-directory/public-works/documents-online/construction-documents

You are responsible to obtain all issued addenda prior to bid opening. Addenda will be available to download at the City's website listed above or at the office of the City Engineer.

Contact the project manager, Noah Maidrand at (805) 783-7854 or the Public Works Department at (805) 781-7200 prior to bid opening to verify the number of addenda issued.

PROJECT INFORMATION

In general, the project consists of grading new bypass channels in the San Luis Obispo Creek floodplain, grading within San Luis Obispo Creek to reshape existing creek banks and connect to the new bypass channels, replacement of the existing Bianchi Lane Bridge and associated roadway and utility improvements in Bianchi Lane, sediment removal at the Marsh Street Bridge, removal of an existing building adjacent to San Luis Obispo Creek on Higuera Street, grading of the City owned parcel referred to as Matthews Open Space including removal of contaminated soil, constructing two new driveway entrances on Higuera Street at the Matthews Open Space, removal of existing trees and other vegetation, removal of invasive plant species, installing vegetated rock slope protection, and revegetation and temporary irrigation.

The project estimated construction cost is $9,513,000

Contract time is established as 233 working days.

The fixed liquidated damages amount is established at $500 per day for failure to complete the work within the contract time.

In compliance with section 1773 of the Labor Code, the State of California Department of Industrial Relations has established prevailing hourly wage rates for each type of workman. Current wage rates may be obtained from the Division of Labor at:

https://www.dir.ca.gov/oprl/DPreWageDetermination.htm

Where do we add or are there DBE requirements for this project?

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

There will be a mandatory walkthrough on XX/XX/XX. Bidders should meet at 306 Higuera Street at XX:XX X.m. Prime contractors wishing to submit a bid proposal are required to attend and sign in at the meeting.

QUALIFICATIONS

You must possess a valid Class A Contractor's License at the time of the bid opening.

You and any subcontractors required to pay prevailing wage must be registered with the Department of Industrial Relations pursuant to Section 1725.5 of the Labor Code.

You must have experience constructing projects similar to the work specified for this project. Provide three similar reference projects completed as either the prime or subcontractor. All referenced projects must have been completed within the last five years from this project's bid opening date.

One of the three reference projects must have been completed under contract with a city, county, state or federal government agency as the prime contractor.

2 of the referenced projects must be for bridge construction.
1 of the referenced projects must be for grading, including roadway construction.

A minimum one of three of the above required reference project types must include work regulated by the Army Corp, US Fish and Wildlife, and the Regional Water Quality Control Board.

Failure to provide reference projects as specified in this section and as required on the qualification form is cause to reject a bid as being non-responsive.

The City reserves the right to reject any bid based on non-responsiveness if a bidder fails to provide a bid that complies with all bidding instructions.

The City reserves the right to reject a responsive bid based on the non-responsibility of the bidder if the Director of Public Works or Designee finds, after providing notice and a hearing to the bidder, that the bidder lacks the

1. knowledge
2. experience,
3. or is otherwise not responsible

as defined in Section 3.24 of the San Luis Obispo Municipal Code to complete the project in the best interest of the City.

Rejected bidders may appeal this determination. Appeal must comply with the requirements in this Notice to Bidders.

It is the City of San Luis Obispo's intent to award the contract to the lowest responsive bid submitted by a responsible bidder. If in the bidder's opinion the contract has been or may be improperly awarded, the bidder may protest the contract award.

Protests must be filed no later than five working days after either:

1. bid opening date
2. notification of rejected bid.

Protest must be in writing and received by the project manager located at:

919 Palm Street
San Luis Obispo, CA 93401.

Valid protests must contain the following information:

1. the reasons for the protest
2. any supporting documentation
3. the ruling expected by the City to remedy the protest.

Any protest not containing all required information will be deemed invalid and rejected.

The City will consider additional documentation or other supporting information regarding the protest if submitted in compliance to the specified time limits. Anything submitted after the specified time limit will be rejected and not be considered.

The Director of Public Works or Designee may request additional information to be submitted within three working days of the request, unless otherwise specified, and will notify the protester of ruling within ten working days of determination.

If the protester is not satisfied with ruling, the protester may appeal the ruling to the City Council in compliance with Chapter 1.20 of the City of San Luis Obispo Municipal Code.

Pursuant to the Public Records Act (Government Code, § 6250, et seq.), the City will make public records available upon request.

AWARD

The lowest bidder will be determined using the BID TOTAL.

As a condition to executing a contract with the City, two bonds each equal to one hundred percent of the total contract price are required in compliance with Section 3-1.05 of the Standard Specifications.

You may substitute securities for moneys withheld under the contract in compliance with the provisions of the Public Contract Code, Section 10263.

ACCOMMODATION

If any accommodations are needed to participate in the bid process, please contact Argelia Chang at (805) 781-7200 or by Telecommunications Device for the Deaf at (805) 781-7107. Requests should be made as early as possible in the bidding process to allow time for accommodation.

BID FORMS

All bid forms must be completed and submitted with your bid. Failure to submit these forms and required bid bond is cause to reject the bid as nonresponsive. Staple all bid forms together.

THE UNDERSIGNED, agrees that they have carefully examined:

1. the location of the proposed work
2. the plans and specifications
3. read the accompanying instructions to bidders

and propose to furnish all:

4. materials
5. labor

to complete all the required work satisfactorily in compliance with

6. plans
7. specifications
8. special provisions

for the prices set forth in the bid item list:

BID ITEM LIST FOR MID-HIGUERA BYPASS, SPECIFICATION NO. 2090649

Item No.	$SS_{(1)}$	Item Description	Unit of Measure	Estimated Quantity	Item Price (in figures)	Total (in figures)
1	7	LEAD COMPLIANCE PLAN	LS	1	-	
2	10	FURNISH FIELD OFFICE	QTR	6		
3	12	CONSTRUCTION AREA SIGNS	LS	1	-	
4	12	TRAFFIC CONTROL SYSTEM	LS	1	-	
5	13	JOB SITE MANAGEMENT	LS	1	-	
6	13	PREPARE AND EXECUTE STORMWATER POLLUTION PREVENTION PLAN	LS	1	-	
7	13	WATER QUALITY ANNUAL REPORT	EA	1		
8	13	TEMPORARY CREEK DIVERSION SYSTEM AND DEWATERING	LS	1	-	
9	14	EXCAVATION, MONITORING, AND TRANSPORTATION PLAN (HAZARDOUS WASTE)	LS	1	-	
10	14	SAMPLING AND ANALYSIS PLAN	LS	1	-	
11	14	EXCAVATION AND MONITORING PLAN (PALEONTOLOGICAL RESOURCEES)	LS	1	-	
12	14	REMOVE AND DISPOSE OF INVASIVE PLANT SPECIES	LS	1	-	

Item No.	SS(1)	Item Description	Unit of Measure	Estimated Quantity	Item Price (in figures)	Total (in figures)
13	14	REMOVE EXISTING TRASH AND DEBRIS	LS	1	-	
14	15	BUILDING REMOVAL	LS	1	-	
15	16	REMPORARY HIGH-VISIBILITY FENCE	LF	3,060		
16	16	TEMPORARY CONSTRUCTION ACCESS	LS	1	-	
17	16	TEMPORARY WATER SERVICE	EA	1		
18	17	CLEARING AND GRUBBING	LS	1	-	
19	19	ROADWAY EXCAVATION	CY	697		
20	19	ROADWAY EXCAVATION (TYPE Z-2) (LEAD)	CY	40		
21	19	ROADWAY EXCAVATION (TYPE COM) (LEAD)	CY			
22	19	ROADWAY EXCAVATION (TYPE CM) (HYDROCARBONS)	CY	180		
23	19	ROADWAY EXCAVATION (TOPSOIL)	CY			
24	19	STRUCTURE EXCAVATION (TYPE A)	CY	455		
25	19	STRUCTURE EXCAVATION (TYPE D)	CY	227		
26	19	STRUCTURE BACKFILL (BRIDGE)	CY	375		
27	19	DITCH EXCAVATION (BYPASS CHANNELS)	CY	19,410		
28	19	DITCH EXCAVATION (BENCHES)	CY	3,050		
29	19	DITCH EXCAVATION (MARSH STREET SEDIMENT REMOVAL)	LS	1	-	
30	19	DITCH EXCAVATION (TYPE Z-2) (LEAD)	CY	160		
31	20	HIGHWAY PLANTING	LS	1	-	
32	20	PLANT ESTABLISHMENT WORK (THREE YEARS)	QTR	12		
33	20	PRUNE TREE	EA	24		
34	20	PRUNE TREE AND ROOTS	EA	2		
35	20	REMOVE TREE	EA	90		
36	20	REMOVE TREE (48” DBH AND LARGER)	EA	11		
37	20	REMOVE TREE TO EXISTING GROUND	EA	14		
38	20	3’ x 5’ x 3’ BOULDER	EA	8		
39	20	4’ x 6’ x 2’ BOULDER	EA	7		
40	20	ROOT WAD	EA	3		

Item No.	SS(1)	Item Description	Unit of Measure	Estimated Quantity	Item Price (in figures)	Total (in figures)
41	20	IRRIGATION SYSTEM	LS	1	-	
42	20	QUICK COUPLER VALVE BOX	EA	2		
43	20	IRRIGATION SERVICE ASSEMBLY	EA	2		
44	20	2” WATER SERVICE AND METER (EXISTING PAVEMENT)	EA	1		
45	20	2” WATER SERVICE AND METER	EA	2		
46	21	ROLLED EROSION CONTROL PRODUCT (BLANKET) (BYPASS CHANNELS)	SQFT	89,433		
47	21	ROLLED EROSION CONTROL PRODUCT (BLANKET) (BENCHES)	SQFT	29,050		
48	21	HYDROSEED (BENCHES AND BYPASS CHANNELS)	SQFT	118,483		
49	21	HYDROSEED (DISTURBED AREAS)	LS	1	-	
50	25	CLASS 3 AGGREGATE SUBBASE	CY	240		
51	26	CLASS 2 AGGREGATE BASE	CY	218		
52	39	HOT MIX ASPHALT (TYPE A)	TON	217		
53	39	REMOVE BASE AND SURFACING	SF			
54	48	TEMPORARY BRIDGE	LS	1	-	
55	49	PERMANENT STEEL CASING	EA	3		
56	49	30” CAST-IN-DRILLED-HOLE CONCRETE PILING	LF	347		
57	49	48” CAST-IN-DRILLED-HOLE CONCRETE PILING	LF	36		
58	51	SEAL COURSE CONCRETE	CY	61		
59	51	STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	85		
60	51	STRUCTURAL CONCRETE, BRIDGE	CY	161		
61	51	STRUCTURAL CONCRRETE, BRIDGE (POLYMER FABRIC)	CY	52		
62	51	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE EQ)	CY	18		
63	51	STRUCTURAL CONCRETE, HEADWALL	CY	9		
64	51	MINOR CONCRETE (MINOR STRUCTURE) (CRASH CUSHION PAD)	CY	9		
65	51	PRECAST PRESTRESSED CONCRETE SLAB (TYPE SIV)	SQFT	3,318		
66	51	PRECAST CONCRETE GIRDER	EA	8		

Item No.	SS(1)	Item Description	Unit of Measure	Estimated Quantity	Item Price (in figures)	Total (in figures)
67	51	JOINT SEAL (MR 1”)	LF	50		
68	52	BAR REINFORCING STEEL (BRIDGE)	LB	121,930		
69	60	BRIDGE REMOVAL	LS	1		
70	64	54” HDPE (TYPE S)	LF	120		
71	70	STORM DRAIN MANHOLE (DWG 3510)	EA	1		
72	71	REMOVE STORM DRAIN (54” RCP)	LF	109		
73	72	ROCK SLOPE PROTECTION GRAVEL FILTER	CY	489		
74	72	SMALL-ROCK SLOPE PROTECTION (7-INCH LAYER)	CY	3		
75	72	CLASS III VEGETATED ROCK SLOPE PROTECTION	CY	478		
76	72	CLAS IV VEGETATED ROCK SLOPE PROTECTION	CY	1,234		
77	73	MINOR CONCRETE (CURB AND GUTTER)	LF	76		
78	73	MINOR CONCRETE (SIDEWALK AND DRIVEWAY)	SF	686		
79	73	PRE/POST CONSTRUCTION SURVEYS	EA	5		
80	75	MISCELLANEOUS METAL (BRIDGE)	LB	200		
81	77	REMOVE WATERLINE	LF	233		
82	77	REMOVE WATER METER AND WATER SERVICE	EA	1		
83	77	REMOVE FIRE HYDRANT ASSEMBLY	EA	1		
84	77	6-INCH FLEXIBLE EXPANSION JOINT	EA	2		
85	77	6-INCH LINEAR EXPANSION JOINT	EA	2		
86	77	6-INCH WATERLINE (DIP)	LF	151		
87	77	6-INCH WATERLINE (PVC)	LF	91		
88	77	2” WATER SERVICE AND METER (EXISTING PAVEMENT)	EA	1		
89	77	2” WATER SERVICE AND METER	EA	2		
90	77	1” COMBINATION AIR VACUUM VALVE	EA	1		
91	77	FIRE HYDRANT ASSEMBLY	EA	2		
92	77	EXPOSE EXISTING GAS LINE	LF	281		
93	77	PROVIDE TRENCH FOR GAS LINE	LF	143		

Item No.	SS(1)	Item Description	Unit of Measure	Estimated Quantity	Item Price (in figures)	Total (in figures)
94	78	RESET MAILBOX	EA	2		
95	80	RECONSTRUCT WOOD FENCE (TYPE WOOD SLIT RAIL)	LF	157		
96	80	RECONSTRUCT FENCE (TYPE CL)	LF	69		
97	82	RELOCATE ROADSIDE SIGN (TWO POST)	EA	1		
98	82	RELOCATE ROADSIDE SIGN (METAL POST)	EA	3		
99	83	CRASH CUSHION (QUADGUARD II 1-BAY)	EA	4		
100	84	4” THERMOPLASTIC TRAFFIC STRIPE	LF	35		
101	84	THERMOPLASTIC PAVEMENT MARKING (LIMIT LINE)	SF	11		
102	89	CALIFORNIA ST-75 BRIDGE RAIL	LF	299		
103	0	MOBILIZATION	LS	1		
				Bid Total	**$**	
Company Name:						

(1) refers to section in the Standard Specifications, with modifications in the Special Provisions, that describe required work.

LIST OF SUBCONTRACTORS

Pursuant to Section 4100 of the Public Contracts Code and section 2-1.33C of the standard specifications, the Bidder is required to furnish the following information for each Subcontractor performing more than 1/2 percent (0.5%) of the total base bid. Do not list alternative subcontractors for the same work. Subcontracting must not total more than fifty percent (50%) of the submitted bid except as allowed in section 5-1.13 of the standard specifications.

For Streets & Highways projects, subcontractors performing less than ten thousand dollars ($10,000) worth of work need not be mentioned. **Subcontractors required to pay prevailing wage, must be registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 to be listed.**

NOTE: If there are no subcontractors, write "NONE" and submit with bid.

Name Under Which Subcontractor is Licensed	License Number	**DIR Public Works Registration Number**	Address and Phone Number of Office, Mill or Shop	Specific Description of Subcontract	% of Total Base Bid

Attach additional sheets as needed.

PUBLIC CONTRACT CODE SECTION 10285.1 STATEMENT

In compliance with Public Contract Code Section 10285.1 (Chapter 376, Stats. 1985), the bidder hereby declares under penalty of perjury under the laws of the State of California that the bidder, or any subcontractor to be engaged by the bidder, **has ____, has not** ____ been convicted within the preceding three years of any offenses referred to in that section, including any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of any state or federal antitrust law in connection with the bidding upon, award of, or performance of, any public works contract, as defined in Public Contract Code Section 1101, with any public entity, as defined in Public Contract Code Section 1100, including the Regents of the University of California or the Trustees of the California State University. The term "bidder" is understood to include any partner, member, officer, director, responsible managing officer, or responsible managing employee thereof, as referred to in Section 10285.1.

NOTE: The bidder must place a check mark after "has" or "has not" in one of the blank spaces provided. The above Statement is part of the Bid. Signing this Bid on the signature portion constitute signature of this Statement. Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

PUBLIC CONTRACT CODE SECTION 10162 QUESTIONNAIRE

In compliance with Public Contract Code Section 10162, the Bidder must complete, under penalty of perjury, the following questionnaire:

Has the bidder, any officer of the bidder, or any employee of the bidder who has a proprietary interest in the bidder, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a federal, state, or local government project because of a violation of law or a safety regulation?

_____ Yes _____ No

If the answer is yes, attach a letter explaining the circumstances

PUBLIC CONTRACT CODE SECTION 10232 STATEMENT

In compliance with Public Contract Code Section 10232, you hereby state under penalty of perjury, that no more than one final unappealable finding of contempt of court by a federal court has been issued against you within the immediately preceding two-year period because of your failure to comply with an order of a federal court which orders you to comply with an order of the National Labor Relations Board.

LABOR CODE SECTION 1725.5 STATEMENTS

The bidder has delinquent liability to an employee or the state for any assessment of back wages or related damages, interest, fines, or penalties pursuant to any final judgment, order, or determination by a court or any federal, state, or local administrative agency, including a confirmed arbitration award. Any judgment, order, or determination that is

under appeal is excluded, provided that the contractor has secured the payment of any amount eventually found due through a bond or other appropriate means.

_____ Yes _____ No

The bidder is currently debarred under Section 1777.1 or under any other federal or state law providing for the debarment of contractors from public works.

_____ Yes _____ No

NOTE: The above Statements and Questionnaire are part of the Bid. Signing this Bid on the signature portion constitute signature of this Statement and Questionnaire. Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

NON-COLLUSION DECLARATION

I, _____, declare that

I am _____ of_____,

the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone refrained from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

Executed on _____, 20_____, in _____

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

_____

(Signature and Title of Declarant)

(SEAL)

Subscribed and sworn to before me
this _____day of _____, 20_____

_____

Notary Public

Company Name:_____

BIDDER ACKNOWLEDGEMENTS

By signing below, the bidder acknowledges and confirms that this bid is based on the information contained in all contract documents, including the notice to bidders, plans, specifications, special provisions, and addendum number(s) _____. **(Note: You are responsible to verify the number of addenda prior to the bid opening.)**

The undersigned further agrees that in case of default in executing the required contract, with necessary bonds, within eight days, (not including Saturdays, Sundays, and legal holidays), after having received a mailed notice that the contract is ready for signature, the proceeds of the check or bond accompanying his bid will become the property of the City of San Luis Obispo.

Licensed in accordance with an act providing for the registration of contractors, License No._____, Expiration Date _____.

The above statement is made under penalty of perjury, and any bid not containing this information "will be considered non-responsive and will be rejected" by the City.

Signature of Bidder _____

_____
(Print Name and Title of Bidder)

DIR– Public Works Registration No: _____

Business Name (DBA): _____

Owner/Legal Name: _____

Indicate One: ☐Sole-proprietor ☐ Partnership ☐Corporation

List Partners/Corporate Officers: _____
Name Title

_____
Name Title

_____
Name Title

Business Address _____

Street Address _____

Mailing Address _____

City, State, Zip Code _____

Phone Number _____

Fax Number _____

Email Address _____

Date _____

QUALIFICATIONS

Failure to furnish complete reference information **ON THIS FORM**, as specified in this project's Notice to Bidders and indicated below, is cause to reject the bid. Additional information may be attached but is not a substitute for this form.

Reference Number 1

Customer Name & Contact Individual	
Telephone & Email	
Project Name (Site Address):	
Is this similar to the project being bid or did this project include similar activity? Yes □ No □	Describe the services provided and how this project is similar to that which is being bid:
Was this contract for a public agency? Yes □ No □	Date project completed:

Reference Number 2

Customer Name & Contact Individual	
Telephone & Email	
Project Name (Site Address):	
Is this similar to the project being bid or did this project include similar activity? Yes □ No □	Describe the services provided and how this project is similar to that which is being bid:
Was this contract for a public agency? Yes □ No □	Date project completed:

Reference Number 3

Customer Name & Contact Individual	
Telephone & Email	
Project Name (Site Address):	
Is this similar to the project being bid or did this project include similar activity? Yes □ No □	Describe the services provided and how this project is similar to that which is being bid:
Was this contract for a public agency? Yes □ No □	Date project completed:

ATTACH BIDDER'S BOND TO ACCOMPANY BID

Know all men by these presents:

That we _____, AS PRINCIPAL, and

_____, AS SURETY, are held and firmly bound unto the City of San Luis Obispo in the sum of:

_____ Dollars (_____) to be paid to said City or its certain attorney, its successors and assigns; for which payment, well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors or assigns, jointly and severally, firmly by these presents:

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the certain bid of the above

bounden _____

to construct _____
(insert name of street and limits to be improved or project)

dated _____ is accepted by the City of San Luis Obispo, and if the above

bounden _____, his heirs, executors, administrators, successors, and assigns shall duly enter into and execute a contract for such construction and shall execute and deliver the two bonds described within ten (10) days (not including Saturdays, Sundays, or legal holidays) after the above bounden,

_____, has received notice by and from the said City of San Luis Obispo that said contract is ready for execution, then this obligation shall become null and void; otherwise, it shall be and remain in full force and virtue.

IN WITNESS WHEREOF, we hereunto set our hands and seals this ___ day of _____, 20____.

Bidder Principal:

_____

Signature Date
Title:

Surety:

_____

_____

_____

Bidder's signature is not required to be notarized. Surety's signature must be notarized.
Equivalent form may be substituted
(Rev. 6-30-14)

SPECIAL PROVISIONS

ORGANIZATION

Special provisions are under headings that correspond with the main section heading of the Standard Specifications. Each special provision begins with a revision clause that describes or introduces a revision to the Standard Specifications. Any paragraph added or deleted by a revision clause does not change the paragraph number of the Standard Specifications for any other reference to a paragraph of the Standard Specifications.

DIVISION I GENERAL PROVISIONS

1 GENERAL

Add to Section 1-1.01 GENERAL:

The work must be done in compliance with the City of San Luis Obispo, Department of Public Works:

1. Mid-Higuera Bypass Specification No. 2090649 Special Provisions
2. City of San Luis Obispo Standard Specifications and Engineering Standards – 2020 edition
3. State of California, Department of Transportation Standard Specifications and Standard Plans – 2015 edition
4. State of California, Department of Transportation Standard Specifications and Standard Plans – 2018 edition, for all work shown on the Structural plans, “S” sheets

In case of conflict between documents, governing ranking must comply with section 5-1.02 of the City of San Luis Obispo’s Standard Specifications.

Failure to comply with the provisions of these sections is a material breach of contract:

1. Sections 5 through 8 of the Standard Specifications
2. Section 12 through 15 of the Standard Specifications
3. Section 77-1 of the Standard Specifications
4. Section 81 of the Standard Specifications
5. authorized working hours
6. OSHA compliance

Add to Section 1-1.07B DEFINITIONS, Glossary:

Predicted Rain Event: Any day for which the National Weather Service has predicted a 25% or more chance of at least 0.1 inch of rain in 24-hours.

San Luis Obispo Creek: The waterway and riparian corridor of San Luis Obispo creek, including the area from top of existing or proposed creek bank to opposite top of existing or proposed creek bank.

Replace in Section 1-1.07B DEFINITIONS, Glossary with:

Specifications: Standard specifications revised standard specifications, and special provisions.

1. State Standard Specifications: Caltrans Standard Specifications dated 2015. For the Structural plans, “S” sheets, items of work only – Caltrans Standard Specifications dated 2018
2. Special Provisions: Specifications specific to the project. These specifications are in Book 1 titled Notice To Bidders and Special Provisions.
3. City of San Luis Obispo Standard Specifications: The directions, provisions and requirements contained in the City of San Luis Obispo, Standard Specifications and engineering standards.

2 BIDDING

Add after the 1st paragraph of Section 2-1.06B BID DOCUMENTS, Supplemental Project Information:

The City makes the following supplemental project information available:

Means	Description
Included in Book 2 titled Supplemental Project Information	1. Bridge As-Built Plans 2. Bridge Foundation Report - Mid-Higuera Bypass Project, Bianchi Lane Bridge Replacement at San Luis Obispo Creek, San Luis Obispo, California 3. Geotechnical Report, Mid-Higuera Bypass Channel Project, San Luis Obispo, California 4. Addendum No. 1 to Geotechnical Report, Mid-Higuera Bypass Channel Project, San Luis Obispo, California 5. Report of Findings Supplemental Soil Assessment Activities, Mid-Higuera Bypass 6. Mid-Higuera Bypass Project; Tree Identification Survey and Tagging within San Luis Obispo Creek 7. Southern California Gas Relocation Plan (By Others) 8. Pacific Gas and Electric Relocation Plan (By Others) 9. Charter Communication Relocation Plan (By Others) 10. AT&T Relocation Plan (By Others) 11. Astound Relocation Plan (By Others) 12. Permits - • Regional Water Quality Control Board Water Quality Certification (401c) • California Department of Fish and Wildlife Streambed Alteration Agreement • U.S. Army Corps of Engineers Permit (404) • US Fish and Wildlife Service Biological Opinion

Means	Description
	• National Marine Fisheries Service Biological Opinion • Caltrans Encroachment Permit 0523-NLT-0267 • Building Permit DEMO-1584-2023 • Grading Permit GRAD-1585-2023 13. Lead Paint Survey Report: Bianchi Lane Bridge 14. Lead Paint Survey Report: 306 Higuera Street 15. Asbestos Survey Report: 306 Higuera Street 16. Bridge Inspection Reports: Bridge No. 49C0381 (Bianchi Lane)
Included with the project plans	1. Log of Test Borings
Available as specified in the Standard Specifications	1. Digital terrain model in 3D xml format 2. Digital design model in 3D xml format 3. Design alignments and profiles in xml format 4. Temporary High Visibility Fence lines in xml format

3 CONTRACT AWARD AND EXECUTION

Replace 1st and 2nd paragraph in Section 3-1.18 CONTRACT EXECUTION with:

Upon notification of project award, return:

1. executed contract
2. insurance
3. contract bonds

within five business days after the bidder receives the contract.

Add Section 3-1.18B CONTRACT EXECUTION, Building Permit:

3-1.18B Building Permit

The contractor must obtain a no-fee building permit from the Community Development Department. All requirements of the building permit shall be applied to the project.

4 SCOPE OF WORK

Add to Section 4-1.03 WORK DESCRIPTION:

Comply with the provisions of Section(s) X [these section number should match the SS numbers listed in the Bid Item List]….for general, material, construction, and payment specifics.

Add Section 4-1.03A WORK DESCRIPTION, Project Specific Signage:

Signage shall be posted in a prominent location at the Project site and shall include the Department of Water Resources color logo and the following disclosure statement:

"Funding for this project has been provided in full or in part from the Water Quality, Supply, and Infrastructure Improvement Act of 2014 and through an agreement with the State Department of Water Resources."

5 CONTROL OF WORK

Add to Section 5-1.20G COORDINATION WITH OTHER ENTITIES, City Authorizations and Permits:

Do not interrupt water service without written approval of the City. All waterline work to be done at night or after business hours unless otherwise approved by the City.

An encroachment permit has been issued to the City by Caltrans for work within Caltrans right of way. You must be fully informed of and comply with the requirements of this encroachment permit as well as rules, regulations, and conditions that may govern your activities within the Caltrans right-of-way and Caltrans property and should conduct the work accordingly.

You must obtain an encroachment permit rider from Caltrans before working within the State right of way or State Property. A fee may apply.

Here? Or where? to add a first order of work to establish temporary utilities to the west side of the Bianchi bridge prior to demo. We would need to give a detailed description of what that would include and verify we have pay items to cover the work. Water, gas, electricity, possible sewer. Some of this work could be done prior to the creek window start date.

Add to Section 5-1.26A CONSTRUCTION SURVEYS, General:

The City's Horizontal and Vertical Survey information to complete the work is available at the City's website:
https://www.slocity.org/government/department-directory/public-works/documents-online/construction-documents/survey-data

The Contractor shall provide all on site survey to construct the project.

Add to Section 5-1.36D PROPERTY AND FACILITY PRESERVATION Nonhighway Facilities:

The utility owner will relocate a utility shown in the following table before the corresponding date shown:

Utility Relocation and Contractor-Arranged Time for the Relocation

Utility	Utility Address	Location	Date
AT&T	196 Suburban Road San Luis Obispo, CA 93401	Bianchi Lane, Higuera Street at Matthews Open Space	December 15, 2024
Charter	270 Bridge Street San Luis Obispo, CA 93401	Bianchi Lane	December 15, 2024
Astound	1998 Santa Barbara Ave San Luis Obispo, CA 93401	Bianchi Lane, Higuera Street	December 15, 2024

PG&E	4325 South Higuera Street San Luis Obispo, CA 93401	Bianchi Lane	December 15, 2024
The Gas Company	750 Industrial Way San Luis Obispo, CA 93401	Bianchi Lane	December 15, 2024

Installation of the utilities shown in the following table requires coordination with your activities. Make the necessary arrangements with the utility company through the Engineer and submit a schedule:

1. Verified by a representative of the utility company
2. Allowing at least the time shown for the utility owner to complete its work

Utility Relocation and Contractor-Arranged Time for the Relocation

Utility	Utility Address	Location	Working Days
City of San Luis Obispo Water	25 Prado Road San Luis Obispo, CA 93401	Bianchi Lane	15
The Gas Company	750 Industrial Way San Luis Obispo, CA 93401	Bianchi Lane	15

6 CONTROL OF MATERIALS

Replace *Reserved* in Section 6-1.04A BUY AMERICA, General with:

Utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carries, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels. Furnish within 20 days following the date of loading for shipments originating within the United State or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated “on-board” commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.

Insert the substance of the provisions of this clause in all subcontracts issued pursuant to this contract.

7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

Replace *Reserved* in Section 7-1.02K(6)(j)(iii) LAWS, Labor Code - Earth Material Containing Lead with:

Section 7-1.02K(6)(j)(iii) includes specifications for handling, removing, and disposing of earth material containing lead at concentrations below levels regulated by DTSC. This is

unregulated material. Manage earth material containing regulated concentrations of lead under Section 14-11.08.

Lead is anticipated in earth material on the job site. Management of this material exposes workers to health hazards that must be addressed in your lead compliance plan. Soil within the Matthews Open Space is anticipated to have the highest lead levels.

Handle the material under all applicable laws, rules, and regulations, including those of the following agencies:

1. US EPA
2. California Environmental Protection Agency
3. CDPH
4. Cal/OSHA
5. California Department of Recycling and Recovery
6. California Air Resources Board
7. California Department of Toxic Substances Control
8. California RWQCB, Region 3, Central Coast
9. San Luis Obispo County Air Pollution Control District

If the material is disposed of:

1. Disclose the lead concentration of the material to the receiving property owner when obtaining authorization for disposal on the property.
2. Obtain the receiving property owner's acknowledgment of lead concentration disclosure in the written authorization for disposal.
3. You are responsible for any additional sampling and analysis required by the receiving property owner.

If you choose to dispose of the material at a commercial landfill:

1. Transport it to a Class III or Class II landfill appropriately permitted to receive the material.
2. You are responsible for identifying the appropriately permitted landfill to receive the material and for all associated trucking and disposal costs, including any additional sampling and analysis required by the receiving landfill.

Add to Section 7-1.03 PUBLIC CONVENIENCE:

Maintain pedestrian and vehicle access to all businesses during business hours. Pavement removal outside of the Bianchi Lane Closure area must occur outside of normal business hours.

Maintain access to the private property APN 002-482-017 at all times unless approved by the City.

Maintain access to the front building of private property APN 002-482-027 at all times unless approved by the City.

Maintain through vehicle access between APN 002-482-027 and APN 002-482-007. Short duration closures of a maximum 2-hour duration are allowed.

Add to Section 7-1.03B PUBLIC CONVENIENCE, Traffic Control Plan:

Provide traffic control plan and traffic control application at or before the preconstruction meeting. Traffic control plan must be drawn to scale. Traffic control application may be obtained on the City's website:

www.slocity.org/government/department-directory/public-works/documents-online/construction-documents

Upon approval of the traffic control plan, the City will issue a no-fee Encroachment Permit. Permittee is responsible to comply with all conditions of the traffic control plan. Complete work using due diligence to restore free flowing of traffic.

8 PROSECUTION AND PROGRESS

Replace the 1st paragraph in Section 8-1.02A SCHEDULE, General with:

Provide a Level 3 schedule for this work.

Add to Section 8-1.05 TIME:

Complete all work within San Luis Obispo Creek between June 1 and October 15. The time limit specified for the completion of the work may be insufficient to permit completion of the work by working a normal number of hours per day or week on a single shift basis. Should you fail to maintain the progress of the work in conformance with these special provisions, you must provide additional shifts as necessary to ensure that the work is completed within the time limit specified at no additional cost to the City.

9 PAYMENT

Add to Section 9-1.01 PAYMENT, GENERAL:

Any item of work that does not have a separate pay item is considered included in other items cost of work and no additional compensation will be paid.

Monthly pay requests shall match the pay items in the bid documents. Subsections to the pay items will not be allowed in the pay request. Separate backup pages with subsections that support the total amount requested in each pay item can be submitted for clarification.

DIVISION II GENERAL CONSTRUCTION

10 GENERAL

Add to Section 10-1.01 GENERAL:

Before initial ground disturbance, all construction personnel must attend biological resource training. Training must comply with Section 14-6.03D(3).

Replace *Reserved* in Section 10-1.03 TIME CONSTRAINTS with:

You may work within San Luis Obispo Creek from June 1 to October 15 of any year. No construction activities below the top of creek banks or within San Luis Obispo Creek during rain events or predicted rain events.

Schedule the work to prioritize:

1. Removal of trees other than eucalyptus from September 1 to February 15.
2. Work near Eucalyptus trees from March 1 to November 1.
3. Work within the SLO Creek from June 1 to October 15.

A roosting bat survey by a City-supplied biologist must be conducted at dawn and dusk to identify potential roosting bats. Notify Engineer 7 calendar days before need survey. The survey must be conducted between two to four weeks before bridge and/or tree removal.

A City-supplied biologist must be on-site during ground disturbing activities and vegetation removal. Notify Engineer at least 7 calendar days before needing biologist.

No pets allowed on the construction site.

Replace *Reserved* in Section 10-3 with:

10-3 FURNISH FIELD OFFICE

10-3.01 GENERAL

10-3.01A Summary

Section 10-3 includes specifications for furnishing and maintaining a field office and associated services for the exclusive use of the Engineer. The field office may be a portable office trailer located within the project limits or a commercial rented office space within a 1,500-foot radius from the Bianchi Lane and Higuera Street intersection. Alternative locations may be requested in writing to the Engineer, subject to review and approval at the Engineer's discretion.

The office must be installed, fully operational, and ready for occupancy no later than 30 calendar days after award of contract and no later than 15 working days prior to the first working day designated or you starting work, whichever comes first. For each day thereafter that the office is not ready for occupancy, you will be assessed damages in the amount of $100.00 per calendar day.

Maintain the office until 30 calendar days after one hundred percent of the work is accepted. You are responsible for removing the office. All equipment, furniture and appliances are your property at the completion of the project.

Provide weatherproof buildings or trailers in good condition and meet all applicable ordinances, safety codes, and regulations. Equipment furnished must be for the Engineer's sole use and of standard quality and new or like new in appearance and function. Facilities and all furnished equipment are subject to approval.

You are responsible for providing a separate, private, professional working area for the Resident Engineer's Office. The field office must be safe, sanitary and include the appropriate electrical service, potable water supply, toilet accommodations and waste disposal services.

You must pay

1. sanitary and utility bills (electricity, phone and water)
2. the cost for all connection and disconnection fees for electricity, phone, water service, sanitary service, high speed internet
3. rental of all of the office and furnishings
4. all costs associated with days of delay in closing the office including, but not limited to, weather and/or contractor schedule completions delays
5. all costs to maintain insurance for such facility to cover any losses of equipment or material within this space

The field office shall be reasonably secure, and if determined necessary by the Engineer, shall be enclosed by a 6-foot-high chain link fence with a gate around the building and parking area.

If the office or furnished equipment is vandalized, stolen, or in need of repair, upon receipt of written notice by Engineer, you will have a maximum of 5 working days to replace or repair the items to full working order. If you fail to comply within the 5 working days specified, the City may at its option withhold monthly progress payments until the office is returned to full and complete working order.

10-3.01B Definitions
Not Used

10-3.01C Submittals
Not Used

10-3.01D Quality Control and Assurance
Not Used

10-3.02 MATERIALS
You must supply a field office with the minimum requirements:

1. 400 square feet floor space, with separate room for Resident Engineer's office
2. Locking outside doors, deadbolt with keys (minimum 2 doors)
3. Alarm system with 24-hour monitoring service
4. Slip proof tread and handrails on steps as required
5. Windows with locks, provide adequate cross ventilation in all rooms

6. 7-foot (min) ceiling height
7. Electrical lighting
8. Heat and air conditioning able to maintain temperature between 68 and 78 degrees Fahrenheit
9. Adequate electrical outlets and surge protectors
10. Adequate electricity (120 volt, 60 cycle)
11. Adequate potable water supply
12. Adequate indoor sanitary facilities, including sink
13. Parking for 4 vehicles (min)
14. Janitorial services – minimum once per week

You must furnish the office at a minimum with:

1. (3) Table 30” wide 8’ long x 30” high
2. (1) File cabinet, 4-drawer, fire resistant metal with lock and keys
3. (2) Desk, 30" x 60"
4. (2) Desk lamps
5. (3) Office chairs and 6 folding chairs
6. (1) 5 shelf Bookcase, 3’ wide x 1’ deep x 6’ high minimum
7. (2) 3 shelf Bookcase, 3’ wide x 1’ deep x 4’ high minimum
8. (1) 48”x72” dry erase board
9. (1) Fire extinguisher
10. (1) Refrigerator, 10 cubic feet, with minimum 2 cubic feet freezer compartment
11. (1) Microwave Oven
12. (1) Water cooler with hot/cold taps and water delivery service
13. (1) wireless, color, 11 x 17 scanning printer
14. (1) fully serviced commercial Copy Machine (with color, 11x17, and scanning
15. capabilities), with necessary paper and cartridges
16. (1) commercial grade First Aid Kit (Contractor maintained)
17. High speed internet (DSL equivalent or better), with secured “wifi” connectivity

The Field Office must have a 24”x36” sign, white color, affixed near the entrance door. The sign must read “City of San Luis Obispo, DEPARTMENT OF PUBLIC WORKS” and must have City seals affixed to it.

10-3.03 CONSTRUCTION

Not Used

10-3.04 PAYMENT

Payment for furnish field office as follows:

1. A total of 25 percent of the item total upon the Engineer determining the field office is complete and acceptable.
2. A total of 75 percent of the item total at such time that 50 percent of the work is complete
3. A total of 100 percent of the item total upon contract acceptance

12 TEMPORARY TRAFFIC CONTROL

Add to Section 12-1.01 GENERAL:

12-1.01A Definitions

Bianchi Lane Closure: Temporary closure of Bianchi Lane for construction of the new Bianchi Lane Bridge over San Luis Obispo Creek. Allowable limits of closure are the property line of private property APN 002-482-017 and "BL" Station 12+00..

Add to Section 12-4.01A MAINTAINING TRAFFIC, General:

The requirements of this Section do not apply to the Bianchi Lane Closure.

Add to Section 12-4.02A(2), TRAFFIC CONTROL SYSTEMS, Definitions:

Special days: Cal Poly Graduation Weekend, Friday to Sunday

Replace *Reserved* in Section 12-4.02C(3)(d) TRAFFIC CONTROL SYSTEMS, City Street Closure Requirements with:

Prior to the Bianchi Lane Closure, the Contractor shall establish access to the private property APN 002-482-017 via a temporary bridge, or as otherwise approved by the Engineer.

Replace *Reserved* in Section 12-4.02C(3)(f) TRAFFIC CONTROL SYSTEMS, Closure Restrictions for Designated Holidays and Special Days with:

Road closures are not allowed on Designated Holidays or Special Days, with the exception of the Bianchi Lane Closure.

Replace *Reserved* in Section 12-4.02C(3)(m) TRAFFIC CONTROL SYSTEMS, City Street Closure Hour Charts and City Street Lane Requirement Charts with:

Chart No. M1
City Street Lane Requirements and Hours of Work

Location: Higuera Street	Direction: NB/SB	

Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon-Fri	C	C	C	C	C	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	C	C	C	
Sat	C	C	C	C	C	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	C	C	C	
Sun	C	C	C	C	C	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	C	C	C	

Legend:

1	Provide at least 1 City street lane open in the direction of travel.
C	Street may be closed completely.

REMARKS: The number of through traffic lanes in each direction of travel is 1.
The full width of the traveled way must be open for use by traffic when construction activities are not actively in progress.

Add to Section 12-4.04C, PEDESTRIAN FACILITIES, Construction:

Maintain pedestrian access to all businesses during business hours.

13 WATER POLLUTION CONTROL

Add to the end of Section 13-1.01A GENERAL, Summary:

The specifications in Section 13 for water quality monitoring apply to the following work activities whenever they occur in or over water:

1. Bridge removal
2. New bridge construction
3. Installing and removing the creek diversion system
4. Rock Slope Protection
5. Installation of CIDH
6. Any work below top of creek banks

The receiving water for this project is San Luis Obispo Creek.

Water quality monitoring and reporting will be conducted by a City-supplied biologist. Coordinate with the biologist for all work requiring water quality monitoring.

Only herbicides and pesticides approved for aquatic use may be used. If surfactants are required, they shall be restricted to non-ionic chemicals that are approved for aquatic use by the California Department of Pesticide Regulation. Herbicide spraying shall not occur when wind speeds exceed 10 miles per hour. All sprays shall contain a a dye registered for aquatic use by CDPR to identify overspray. Herbicide and pesticide use shall comply with all regulatory permits.

Add to the end of Section 13-3.01A STORMWATER POLLUTION PREVENTION PLAN, Summary:

This project is Risk Level 2.

Add to Section 13-4.01C, JOB SITE MANAGEMENT, Submittals:

At least 5 working days before the start of jobsite activities, submit a Spill Prevention and Clean-up Plan. The Spill Prevention and Clean-up Plan must include:

1. How chemical and hazardous substances will be stored
2. Cleanup supplies on site for possible spill cleanup
3. Spill cleanup procedures and procedures to prevent spills from entering storm runoff or the creek.
4. Reporting requirements for spills.

Replace the last paragraph of Section 13-4.03C(1) CONSTRUCTION, Material Management, General with:

Perform each of the following activities at least 100 feet from a concentrated flow of stormwater, a drainage course, aquatic or riparian habitat, or an inlet, and in a location where accidental discharges cannot flow into waterways..

1. Stockpiling materials
2. Storing pile-installation equipment and liquid waste containers

3. Washing vehicles and equipment in outside areas
4. Fueling and maintaining vehicles and equipment

Equipment staging and overnight parking of equipment must be at least 60 feet from aquatic or riparian habitat. If equipment is parked less than 60 feet from aquatic or riparian habitat at the end of the work day then drip pans or containment mats are required.

Add to Section 13-4.03G CONSTRUCTION, Dewatering:

If dewatering activities are needed, test the water for petroleum hydrocarbons and volatile organic compounds prior to discharging it. If the water is contaminated, dispose of it at a permitted disposal facility in accordance with Local, State, and Federal regulations. Provide the Engineer test results and disposal records.

Replace Section 13-12 with:

13-12 TEMPORARY CREEK DIVERSION SYSTEMS

13-12.01 GENERAL

13-12.01A Summary

Section 13-12 includes specifications for constructing, maintaining, reconstructing, and removing temporary creek diversion system (TCDS), and restoring creek bed to original condition. The temporary diversion system is used to divert upstream water flows to allow construction in a dry or dewatered location.

The TCDS must be designed and installed to:

1. Prevent erosion and build-up of sediment upstream or downstream of the project area.
2. Not cause blockage of creek flow upstream or downstream of the project area.
3. Have capacity for unanticipated rainfall events even outside of normal rainy periods.
4. Prevent impingement and entrainment of fish based on CDFW and NMFS criteria.

13-12.01B Definitions

Not Used

13-12.01C Submittals

Submit a certificate of compliance for:

1. Impermeable plastic sheeting
2. Gravel
3. Pipe material

13-12.01C(1) Temporary Creek Diversion System Plan

Within 30 working days of Contract award, submit 3 copies of the Temporary Creek Diversion System Plan (TCDSP). The TCDSP must include:

1. Installation and removal process, including equipment, platforms for equipment, and access locations.

2. Anticipated creek flow rates.
3. Calculations supporting the sizing of piping, channels, pumps, or other conveyance by using FHWA HY-8 or other equivalent method. Calculate the discharge water flow rate and velocity anticipated where it discharges on any erodible surface, so its conveyance does not cause erosion within the project or at the discharge to the water body. Temporary culverts attached to banks, walls, or other locations must be designed to hold the full weight of the culvert at capacity and restrain the culvert for any expected hydraulic forces.
4. Plans showing locations of diversion, including layouts, cross sections, and elevations.
5. Materials proposed for use, including MSDS if applicable.
6. Operation and maintenance procedures for the TCDS.
7. Restoration plans showing before and after conditions, including photos of existing conditions for areas to be disturbed during the installation, operation, and removal of the TCDS.
8. Monitoring and reporting plan to ensure applicable water quality objectives are met. This includes schedule of work including Temporary BMP implementation as part of the Construction Site BMP strategy and SWPPP.
9. Details of the pumping system, if used, including power source, debris handling, fish screens, and monitoring requirements.
10. Fish passage plan, following the Caltrans Fish Passage Design for Road Crossings, CA Department of Fish and Wildlife (CDFW), CA Salmonid Stream Habitat Restoration Manual, and National Marine Fisheries Service (NMFS), Guidelines for Salmonid Passage at Stream Crossings, as required by the applicable Permits, Licenses, Agreements, and Certifications (PLACs).
11. The TCDS design must demonstrate how it will comply with section 13-12.03A, water tightness, and prevent seepage.
12. Contingency plan to remove workers, equipment, materials, fuels, and any other work items that will cause pollution or violation of PLACs during a rain event out of the flow area. Develop the contingency plan for when a 12-inch freeboard cannot be maintained and overtopping of the coffer dams may occur.

If revisions are required, the Engineer notifies you of the date when the review stopped and provides comments. Submit a revised TCDSP within 15 working days of receiving the comments. The City's review resumes when a complete TCDSP has been resubmitted.

Submit an electronic copy on a read-only CD, DVD, or other Engineer-authorized data storage device and 4 printed copies of the authorized TCDSP.

The RWQCB or other regulatory agency requires review of the authorized TCDSP. The Engineer submits it to the RWQCB or other regulatory agency for review and comment. If the Engineer orders changes to the TCDSP based on the RWQCB's comments, submit a revised TCDSP within 10 working days.

All submittals which include plans, specifications, and calculations must be sealed and signed by a civil engineer registered in the State.

13-12.01D Quality Assurance
Not Used

13-12.02 MATERIALS

13-12.02A Gravel
Gravel must:

1. Be river run gravel obtained from a river or creek bed with gradation of 100 percent passing a 3/4-inch sieve and 0% passing a 3/8-inch sieve.
2. Be clean, hard, sound, durable, uniform in quality, and free of any detrimental quantity of soft, thin, elongated or laminated pieces, disintegrated material, organic matter, or other deleterious substances.
3. Be composed entirely of particles that have no more than 1 fractured face.
4. Have a cleanliness value of at least 85, as determined by California Test 227.

13-12.02B Impermeable Plastic Membrane
Impermeable plastic membrane must be:

1. Single ply, commercial quality, polyethylene with a minimum thickness of 10 mils complying with ASTM D2103. You must use stronger plastic membrane if required as part of design to resist hydraulic forces.
2. Free of holes, punctures, tears or other defects that compromise the impermeability of the material.
3. Suitable for use as an impermeable membrane.
4. Resistant to UV light, retaining a minimum grab breaking load of 70 percent after 500 hours under ASTM D4355.

13-12.02C Gravel-Filled Bags
A gravel-filled bag must:

1. Be a geosynthetic bag
2. Have inside dimensions from 24 to 32 inches long and from 16 to 20 inches wide
3. Have a bound opening sewn with yarn, bound with wire, or secured with a closure device
4. Weigh from 30 to 50 pounds when filled with gravel

Sand filled bags are not allowed.

13-12.02D Plastic Pipes
Plastic pipe must comply with section 61-3.01(ALTERNATIVE CULVERTS) and must:

1. Be clean, uncoated, in good condition free of rust, paint oil dirt or other residues that could potentially contribute to water pollution
2. Be adequately supported for planned loads
3. Use watertight joints under section 61-2.01.
4. Be made of a material or combination of materials that are suitable for clean water and which do not contain banned, hazardous, or unlawful substances
5. For temporary pipes not reused on the project you may use the following materials:

5.1. PVC closed-profile wall pipe must comply with ASTM F1803
5.2. PVC solid wall pipe must comply with ASTM D3034, ASTM F679, AWWA C900, AWWA C905, or ASTM D2241 and cell class 12454 defined by ASTM D1784
5.3. HDPE solid wall pipe must comply with AASHTO M 326 and ASTM F714
5.4. Polyethylene large-diameter-profile wall sewer and drainpipe must comply with ASTM F894

13-12.02E Rock
Rock layer must comply with the table titled Rock Gradation for 7-inch-Thick Layer in section 72-4.02.

13-12.02F Pumping System
Pumping system must:
1. Comply with section 74-2.02B
2. Be equipped with secondary containment
3. Be free of fuel and oil leaks
4. Meet intake screen regulatory requirements and have a wire mesh with a grid no larger than 0.2 inches on the intake.

13-12.02G Seepage Pumping System
If seepage occurs in the dewatered work area, the water must be removed by sump pumps as part of the TCDS.

Seepage pumping system must:
1. Comply with section 74-2.02B
2. Ensure discharge water conform with PLACs or is treated on site
3. Be free of fuel and oil leaks

13-12.02H Discharge Water Energy Dissipation and Erosion Control
Discharge water from pumps, pipes, ditches, or other conveyances must have BMPs to dissipate the flows and velocity of water discharged from the temporary diversion system if erosion would otherwise occur.

Energy dissipation measures:
1. May be plastic sheeting, flared end sections, rubber matting, or other materials appropriate for the design hydraulics
2. Must be anchored to prevent movement by expected flows
3. Must be removed when the TCDS is removed

13-12.03 CONSTRUCTION

13-12.03A General
Construction, use, and removal of the TCDS is restricted to the time period in the PLACs. If the work cannot be completed during the initial restricted time period, remove TCDS, restore the creek to original flow condition, and reconstruct the TCDS the following year. No work is allowed within the stream except during the restricted time period.

Do not use motorized equipment or vehicles in areas of flowing or standing water for the construction or removal of the TCDS in compliance with section 13-4.03.

Remove vegetation to ground level and clear away debris.

Place temporary or permanent fill as allowed by PLACs.

Place rock at outlet of diversion pipe under section 72-4.03, except motorized vehicles and equipment must not be used in areas of flowing or standing water.

Do not construct or reconstruct TCDS if the 72-hour forecast predicts a 50 percent or greater chance of rain in the project area.

Stop all work and remove all material and equipment from the creek between upstream and downstream cofferdams if the 72-hour forecast predicts a 50 percent or greater chance of rain in the project area and the predicted rainfall is estimated to produce a flow rate exceeding the design capacity of the TCDS.

If the required freeboard cannot be maintained and overtopping may occur, implement contingency plan to remove all workers, equipment, and potential sources of pollution from the dry working area of the creek bed.

The TCDS must be constructed within the temporary impact footprint as described in the environmental commitments.

Lap and join joints between the edges of impermeable plastic membrane with commercial-quality waterproof tape with minimum 4-inch lapping at the edges.

Seal openings or penetrations through the impermeable plastic membrane with commercial quality waterproof tape.

The TCDS must be watertight to keep the work area dry for construction and prevent the creation of pollutants. Maintain all portions of the TCDS and fix leaks as soon as they are discovered.

Contact water agencies that discharge to the construction area to ensure that unexpected water is not discharged during construction which could compromise the TCDS.

13-12.03B Maintenance

Maintain the TCDS to provide a minimum freeboard of 12 inches between the water surface and the impermeable top of the cofferdams.

Do not discharge runoff from existing or proposed drainage systems into the dry work area between the cofferdams. Runoff from these systems may be connected to the diversion pipe or conveyed by pipes downstream of the cofferdam.

Prevent leaks in the TCDS. Provide seepage pumps as necessary and keep the work area dry to prevent the creation of sediment-laden water.

Repair holes, rips and voids in the impermeable plastic membrane with commercial-quality waterproof tape. Replace impermeable plastic membrane when patches or repairs compromise the impermeability of the material.

Repair TCDS within 24 hours after the damage occurs.

Prevent debris from entering the TCDS and receiving water.

Remove and immediately replace gravel, gravel-filled bags, impermeable plastic membrane, or plastic pipes contaminated by construction activities.

Remove sediment deposits and debris from the TCDS as needed. If removed sediment is deposited within project limits, it must be stabilized and not subject to erosion by wind or water, under sections 19-1.01 and 19-2.03 B.

13-12.03C Removal

When no longer required, remove all components of TCDS. Return the creek bed and banks to the original condition.

Diversion must be removed if project has a winter suspension and re-installed after winter suspension if needed for work.

Do not excavate the native creek material. Backfill ground disturbance, including holes and depressions caused by the installation and removal of the TCDS with gravel or native creek material. Maintain the original line and grade of the creek bed.

13-12.04 PAYMENT

Bid item Temporary Creek Diversion System is paid by lump sum, and includes all labor, materials, tools, equipment, and incidentals to design, install, maintain, and remove the Temporary Creek Diversion System.

14 ENVIRONMENTAL STEWARDSHIP

Add to the end of Section 14-1.02, ENVIRONMENTALLY SENSITIVE AREA:

An ESA exists on this project.

Before starting job site activities, install temporary high visibility fence to avoid inadvertent impacts to San Luis Obispo Creek.

Add to Section 14-6.01, BIOLOGICAL RESOURCES- GENERAL:

If any wildlife is encountered during construction, allow said wildlife to leave the construction area unharmed.

Add to the 1st paragraph of Section 14-6.03A, SPECIES PROTECTION, General:

This project is within or near habitat for the regulated species shown in the following table:

Regulated Species

California Red-Legged Frog
South-Central California Coast Steelhead Trout
Migratory Birds
Roosting Bats
Monarch Butterfly

This project includes the sensitive habitats shown in the following table:

Sensitive Habitats

Riparian
Riverine

Species protection areas within the project limits are specified in the following table.

Species Protection Areas

Identification Name	Location
Species Protection Area 1	Entire Project Limits

Within Species Protection Area 1, implement the following protection measures:

1. Follow the fieldwork code of practice developed by the Declining Amphibian Populations Task Force
2. Filter fabric must line the channel prior to the placement of diversion materials into the channel. Substrate in channel, including gravel and rocks, that is removed during project construction will be set aside, rinsed, and then returned to the channel following completion of in-channel construction.
3. Project activities that may affect the flow of the creek through placement of fill, bridge construction, or diversion of the channel must comply with the 2001 NMFS Guidelines for Salmonid Passage at Stream Crossing, where applicable. The guidelines include but are not limited to:
   - 3.1. A minimum water depth (12 inch for adults and 6 inch for juveniles) at the low fish passage; or maximum depth as can be afforded if ambient creek flows begin to drop;
   - 3.2. A maximum hydraulic drop of 12 inch for adults and 6 inch for juveniles;
   - 3.3. Avoidance of abrupt changes in water surface and velocities; and
   - 3.4. Structures must be aligned with the stream, with no abrupt changes in flow direction upstream or downstream of the crossing.
4. In-channel construction will not be conducted at night to afford fish quiet migratory hours.
5. Pile installation activities must coincide with the least likely occurrence of upstream migrating adults or downstream juvenile migration (June 1-November 1).

6. All water pumping or withdrawal from the creek must comply with 1997 NMFS Fish Screening Criteria for Anadromous Salmonids, where applicable, and all PLACs to avoid entrainment of fish. The criteria include but are not limited to the following:
   6.1. Screen design must provide for uniform flow distribution over the surface of the screen;
   6.2. Screen material openings must not exceed 3/32 inches for fry (fish capable of feeding themselves) sized salmonids and must not exceed 1/4 inch for fingerling sized salmonids;
   6.3. Where physically practical, the screen must be constructed at the dewatering system entrance. The screen face should be generally parallel to river flow and aligned with the adjacent bank line; and
   6.4. The design approach velocity must not exceed 0.33 feet per second for fry sized salmonids or 0.8 feet per second for fingerling sized salmonids.
7. Before any activities begin on the project, a City-supplied biologist will conduct a training session for all construction personnel. At a minimum, the training will include a description of all sensitive species, including steelhead; their habitat, Critical Habitats, the project specific measures being implemented to conserve these species, and the boundaries within which the project may be accomplished.

Add to Section 14-6.03C SPECIES PROTECTION, Fish Protection:

Regulated fish are anticipated throughout the project corridor. Implement the following protection measures:

1. Install exclusionary material, a cofferdam, or a combination of both
2. A City-supplied biologist will relocate the fish prior to the installation of the TCDS. Contractor shall coordinate with the City-supplied biologist to ensure relocation is planned prior to dewatering.

Maintain exclusion material and cofferdams such that regulated fish are prevented from entering the work area.

The pump screen's approach velocity must not exceed 0.33 feet per second.

Replace *Reserved* in Section 14-6.03D(3) SPECIES PROTECTION, Biological Resource Information Program with:

The City will prepare and present a biological resource information program (training) to familiarize personnel with regulated species and habitats, related laws and regulations, and species protection measures and protocols.

The biological resource information program will include:

1. Identification of the job site, ESAs, and species protection areas
2. Description of the regulated species and its general ecology
3. Description of habitats used by the regulated species and their locations
4. Requirements for protecting regulated species
5. Definition and consequences of take of regulated species
6. Response plan for encounters with the regulated species or a species that looks like one
7. Permit requirements for touching or moving a regulated species

8. Requirements for species protection
9. Description of avoidance and minimization measures
10. Handout materials about the regulated species, its habitats, and species protection measures
11. Handout on the Declining Amphibian Task Force Fieldwork Code of Practices

A City-supplied biologist will develop a program and present the biological resource training.

Notify the Engineer at least 7 calendar days before training session is necessary. All attendees must sign an attendance list.

Personnel who must complete biological resource training include laborers, tradesmen, material suppliers, equipment maintenance staff, supervisors, foremen, office staff, food vendors, and other workers who stay at the job site longer than 60 minutes. Required personnel must attend an initial training within 5 working days of their start date. Follow-up trainings are required a minimum of once in every 12 month period following the initial training.

Replace *Reserved* in Section 14-6.05 with:

14-6.05 INVASIVE PLANT SPECIES AND TRASH REMOVAL

Section 14-6.05 includes specifications for the removal of invasive plant species and for the removal of trash.

14-6.05A Invasive Plant Species Removal

Remove invasive plant species along the corridor of San Luis Obispo Creek from "SLOCRK" Station 10+00 (the north side of the Madonna Road bridge) to "SLOCRK" Station 44+00 (approximately 50-feet north of the Marsh Street bridge). The width of the removal area is from top-of-bank to top-of-bank, and a 10-ft strip outside of the top of banks (finish grade or existing grade whichever is furthest).

Comply with the PLACs and the Habitat Mitigation and Monitoring Plan (HMMP), and the project Order of Work requirements. Comply with section 13-4.03E(3).

Contractor is responsible to prevent invasive species from resprouting for the duration of the plant establishment period. Herbicides may be used in compliance with the PLACs and HMMP.

Within 30 working days of contract award, submit an Invasive Plant Species Removal Plan including:

1. Individual species management techniques
2. Schedule
3. Personnel with applicators qualifications

Remove invasive plant species as listed below:

1. Castor Bean

2. Cape Ivy
3. Giant Reed (Arundo)
4. Himalayan Blackberry

Comply with the removal methods and requirements of the PLACs and HMMP, and the following:

14-6.05A(1) Castor Bean Removal:
Wear gloves and clothing to prevent skin contact with the plant material. Remove the plants by any of the following methods: Hand pulling when the soils are such that the bulk of the root crown is removed; Weed wrenches for small to medium sized plants with a single stem; Shallow cultivation combined with the above.

14-6.05A(2) Cape Ivy Removal
Clear away plant material to gain visual and physical access to locations with cape ivy stems emerging from the ground. Roots and stems must be eased out of the ground using hand tools to loosen the soil.

Removed cape ivy must be placed in or on plastic and removed from the area. Mowing is not allowed.

14-6.05A(3) Giant Reed (Arundo) Removal
Hand pulling may be used when the method will remove all rhizome material. Typically, this is in loose soils and after rains and with plants less six feet in height. In all areas, plants may be dug up using hand tools. In dewatered areas, plants may be removed using mechanized equipment.,

14-6.05A(4) Himalayan Blackberry Removal
Within dewatered areas, Himalayan blackberry plants may be trimmed back by tractor-mounted mowers. In all areas, Himalayan blackberry plants may be trimmed with handheld tools. The preferred time for trimming is when plants begin to flower.

14-6.05A(5) Disposal of Invasive Plant Material
All invasive plant material must be removed from the site and disposed of in accordance with the HMMP and PLACs. Removed invasive plant material must be in bags or covered enclosures at all times until disposed of. Cape ivy tissues must not be put through a chipper. Arundo may be put through a chipper to reduce the material.

The removed invasive plant material must be taken to a landfill and disposed of as waste. Do not dispose of the material as green waste or for compost.

14-6.05B Trash Removal
Comply with the PLACs and Order of Work requirements. Comply with all requirements for removal of Contractor generated trash and debris.

Remove existing trash and manmade debris from the following areas: the area described for invasive plant removal; the area between San Luis Obispo Creek and the Caltrans

right of way fence from “SLOCRK” Station 14+00 to “SLOCRK” Station 35+00; and the Matthews Open Space (APN 002-482-026).

Existing trash that must be removed is all debris with any dimension larger than 4-inches and visible from the surface during the construction process. Below top of creek bank, debris removal must be by hand, except in earthwork areas or other dewatered areas requiring construction equipment to be in the creek corridor.

Dispose of all trash and debris in a permitted landfill or solid waste disposal site.

14-6.05C Payment
Bid items Remove Invasive Plant Species and Remove Existing Trash and Debris are paid by lump sum.

Replace *Reserved* in Section 14-6.06 with:

14-6.06 INVASIVE SPECIES CONTROL
Section 14-6.06 includes specifications for preventing the introduction and spread of invasive species to and from the job site.

Comply with Section 13-4.03E(3).

At least 2 working days before using vehicles and equipment on the job site, submit a signed statement that the vehicles and equipment have been cleaned of soil, seeds, vegetative matter, and other such debris that may introduce or spread invasive species.

The statement must include:
1. List of the vehicles and equipment with identifying numbers
2. Date of cleaning for each vehicle and piece of equipment
3. Description of the cleaning process
4. Measures to be taken to ensure the vehicles and equipment remain clean until operation at the job site
5. Verification that the equipment has not been operated in waters known to be infested by aquatic invasive species

Update the list of vehicles and equipment as needed.

Clean the following vehicles and equipment before operation at the job site:
1. Excavators
2. Loaders
3. Graders
4. Haul trucks
5. Water trucks
6. Cranes
7. Tractors
8. Trailers
9. Dump trucks

10. Waders

Do not clean vehicles, equipment, or tools at locations near sensitive habitat or waterways at the job site. Clean vehicles and equipment every time before it enters or leaves a sensitive habitat.

Implement the following protection measures:

1. Before entering or exiting the job site and staging areas, pressure wash your vehicles and equipment:
   1.1. At a temperature of 140 degrees F
   1.2. With a minimum nozzle pressure of 2,500 psi
   1.3. With a minimum fan tip angle of 45 degrees
2. Thoroughly scrub personal work equipment and tools, such as boots, waders, hand tools, and any other equipment used in water at the job site, using a stiff-bristled brush to remove any organisms. Decontaminate the equipment by one of the following methods:
   2.1. Immerse the equipment in water at a temperature of 140 degrees F for at least 5 minutes. If necessary, weigh down the equipment to keep it immersed in the water.
   2.2. Freeze the equipment to a temperature of 32 degrees F or colder for at least 8 hours.
   2.3. Thoroughly dry the equipment in a weed-free area for at least 48 hours.
3. Clean personal work equipment, and tools over drip pans or containment mats at the job site. Collect and contain the wastewater. Dispose of the wastewater at a waste management facility.

Replace *Reserved* in Section 14-7.04 PALEONTOLOGICAL RESOURCES MITIGATION with:

Section 14-7.04 includes specifications for coordinating and working with a paleontological resources mitigation team provided by the City.

Contractor is responsible to meet all requirements and mitigation measures outlined in the Excavation and Monitoring Plan. Coordinate with City-supplied archaeologist if any paleontological resources are identified.

Replace the 2nd paragraph of Section 14-8.02 NOISE CONTROL with:

Noise from job site activities between the hours of 7 p.m. to 7 a.m. must conform to the requirements of City issued Night Work Permit.

Add to Section 14-9.02 AIR POLLUTION CONTROL, General:

The City has obtained an annual permit for construction from the Air Pollution Control District (APCD). The annual APCD permit and construction log files are located on the City's website:

http://www.slocity.org/government/department-directory/public-works/documents-online/construction-documents

You are required to comply with the APCD permit including all notification and construction logs using the appropriate equipment. Provide training to all workers in the construction area.

You must comply with section 77-1 of the City Standard Specifications.

The US EPA has established the National Emission Standards for Hazardous Air Pollutants (NESHAP). Under the Health & Safety Code § 39658(b)(1), your demolition and rehabilitation activities must comply with 40 CFR 61, Subpart M (National Emission Standard for Asbestos).

Asbestos survey and sampling has been performed as provided in the Supplemental Project Information. Perform asbestos testing if needed before demolition.

You must notify the San Luis Obispo County Air Pollution Control District (APCD) of your demolition activities even if the activities will not disturb asbestos-containing material. You may obtain the notification form, submittal instructions, and other information from: https://www.slocleanair.org/rules-regulations/asbestos.php

Instead of the 10 working days specified at the website, submit a notification form to the San Luis Obispo County APCD at least 15 working days before starting demolition or rehabilitation activities.

If you discover unanticipated asbestos-containing material during the demolition or rehabilitation activities, immediately stop work in that area and notify the Engineer. Do not resume work in the area until authorized.

Notify the San Luis Obispo County APCD of a change to your demolition or rehabilitation activities, including a revised work plan or the discovery of unanticipated asbestos-containing materials, within 2 working days of the change or discovery.

Add Section 14-9.02A AIR POLLUTION CONTROL, Submittals:

Submit a copy of the APCD notification forms and necessary attachments as informational submittals before starting excavation, demolition, or rehabilitation activities.

Add Section 14-9.02B AIR POLLUTION CONTROL, Construction:

Where contamination is encountered, you are responsible to:

1. monitor
2. record
3. report

H2S and Hydrocarbon FID readings taken every hour during work in the contamination zone or as directed by the Engineer.

Appropriate Personal Protective Equipment (PPE) must be used.

Add Section 14-9.02C AIR POLLUTION CONTROL, Payment:

Full compensation for APCD Permit compliance and applicable engineering standards is included in the payment for the listed bid item. Compensation for APCD Permit Compliance includes the following:

1. Minimum two (2) week notification to APCD before planned excavation
2. A project description submitted to City and APCD for approval, including:
    a. Specific work zone boundary where public access is restricted,
    b. Estimated volume to be excavated,
    c. Location of nearest residence, business, and schools,
    d. A project specific Site Health and Safety Plan,
    e. Starting date, project finish date, and operating hours (for hazardous materials excavations)
    f. Preparation of a Monitoring, Recordkeeping and Reporting Plan (MRRP),
    g. Completion of a screening health risk assessment for toxic air pollutants associated with the excavation, and project related APCD fee payments.
3. All On-site contaminated soils monitoring needed during hazardous materials excavation.

Payment for asbestos testing is included in the payment for Bridge Removal and Building Removal. If asbestos is found, removal and disposal will be paid by change order work.

Replace *at least once a week* in the 2nd sentence of the 3rd paragraph of Section 14-10.01 SOLID WASTE DISPOSAL AND RECYCLING, GENERAL with:

daily

Add to Section 14-11.01 HAZARDOUS WASTE AND CONTAMINATION, GENERAL:

Contaminated soil within the grading limits of the project must not remain at the finished grade surface at the completion of grading activities. If contaminated soil is determined to exist at the finished grade surface, then over-excavate to a depth of 6-inches and place topsoil to achieve finish grade.

Add Section 14-11.01A(1) GENERAL, Health And Safety Plan - Contamination Site Information:

There is a potential of soil contamination in the work area. Known areas of soil and groundwater contamination are shown in the following tables, as identified by the *Report of Findings Supplemental Soil Assessment Activities, Mid-Higuera Bypass* included in the Supplemental Project Information.

Site Location	Prior or Current Use
Matthews Open Space	Industrial use

Listed below are the highest known contamination and type of contamination.

Site Location	Contaminate
Matthews Open Space	Lead
Matthews Open Space	Polycyclic Aromatic Hydrocarbons (PAH)

Add to Section 14-11.01 HAZARDOUS WASTE AND CONTAMINATION:

14-11.01B Excavation, Monitoring, and Transportation Plan

Submit an Excavation, Monitoring, and Transportation Plan for the excavation, containerizing, storage, transportation, and disposal of Type Z-2, Type COM, and TypeCM material. Submit the plan at least 20 working days before beginning construction for review and authorization.

The Excavation and Transportation Plan must comply with:

1. DTSC regulations
2. Cal/OSHA regulations

The Excavation, Monitoring, and Transportation Plan must include:

1. Excavation schedule by location and date for Type Z-2, Type COM, and Type CM material
2. Type of U.S. DOT-approved, leak proof storage containers, security measures, and secondary containment
3. Dust control measures
4. Methods and procedures for collecting and segregating Type Z-2, Type COM, and Type CM material from non-contaminated material
5. Transportation and disposal schedule, equipment, and routes
6. Method for preventing spills and tracking material onto public roads
7. Truck waiting and staging areas
8. Traffic control and loading procedures
9. Decontamination and inspection of vehicles before leaving the loading area
10. Identification of facility for disposal of Type Z-2, Type COM, and Type CM material
11. Example of bill of lading to be carried by trucks transporting Type Z-2, Type COM, and Type CM. The bill of lading must include:
    - 11.1. US Department of Transportation description, including shipping name
    - 11.2. Hazard class
    - 11.3. Identification number
    - 11.4. Handling codes
    - 11.5. Quantity of material
    - 11.6. Volume of material
12. Use of hazardous waste manifests for Type Z-2 material
13. Identification of the hazardous waste transporter that will be used for Type Z-2 material. Transporter must be registered with the DTSC to transport hazardous waste and have completed the California Highway Patrol's Basic Inspection of Terminals Program with a satisfactory rating.
14. Spill Contingency Plan for Type Z-2, Type COM, and Type CM material

If revisions are required, as determined by the Engineer, revise and resubmit the plan within 5 working days of receipt of the Engineer's comments and allow 5 working days for the Engineer to review the revisions.

14-11.01C Sampling and Analysis Plan

Submit a draft Sampling and Analysis Plan (SAP) for testing of Type Z-2, COM, and CM materials for review by the Engineer, for the waste generated from each of the identified areas of Type Z-2, COM, and Type CM material. Submit the SAP at least 45 working days before beginning excavation work. The purpose of the SAP is to ensure collection of valid and defensible waste characterization data to determine proper disposal of Type Z-2, COM, and CM materials.

The SAP must:

1. Identify the areas, containers, and stockpiles to be sampled
2. Identify the number, depth, and location of samples to be collected and analyzed in containers, and stockpiles
3. Specify the frequency of sampling
4. Describe the sampling methodology, analytical parameters and methods, and detection limits
5. Describe the management of decontamination water
6. List criteria for characterization of the Type CM, COM, and Type Z-2 material generated from excavation by Type from each area for use in determining whether the waste is designated waste, non-RCRA (California) hazardous waste, or RCRA hazardous waste and the disposal options (e.g., CA Class II or CA Class I)
7. Include analysis for the constituents previously analyzed in the *Report of Findings Supplemental Soil Assessment Activities, Mid-Higuera Bypass* as included in the Supplemental Project Information.
8. Meet the requirements for the design and development of the sampling plan, statistical analysis, and reporting of test results contained in USEPA, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods " (SW-846), Volume II: Field Manual, Chapter Nine, Section 9.1
9. Meet the requirements of the disposal facility accepting the waste materials
10. Be prepared, sealed and signed by a California Professional Geologist or Registered Civil Engineer with five or more years of experience in hazardous waste investigations and remediation.
11. Follow U.S EPA and DTSC Hazardous Waste sampling protocols and analytical methods
12. Include:
    - 12.1. Data quality objectives
    - 12.2. Description of activities to be performed
    - 12.3. Rationale for proposed number of samples, locations, and analytical tests
    - 12.4. Sampling methodology
        - 12.4.1. Step-by-step standard sampling protocol (with appropriate equipment) for samples
        - 12.4.2. Special collection and analytical methods to prevent the loss of volatile and unstable compounds

12.4.3. Type and size of sample containers and the method of preservation for each matrix and analysis

12.4.4. Appropriate packaging, labeling, marking, storing, and shipping methods

12.4.5. Discussion of field documentation such as sample identification, labeling, field logs and chain of custody

12.5. Recording of geologic observations of material removed during excavation in the field log during sample collection. Include descriptions of soil and sediment characteristics and changes and indications of contamination such as staining

12.6. Sample handling procedures:

12.6.1. Samples must be collected and transported in a container appropriate for the analytical methods to be run under proper chain of custody to an approved laboratory within 24 hours after collection

12.6.2. Samples must be analyzed within the holding times specified in SW-846 by a laboratory certified by the SWRCB ELAP for each analysis run

12.7. Decontamination of reusable equipment

12.8. Methodology for managing and disposing of investigation derived wastes (IDW): generated rinseate, water, and drill cuttings must be containerized in watertight containers, sealed, labeled, and stored onsite while awaiting analytical results to determine appropriate disposition.

12.9. Name and address of the SWRCB ELAP certified laboratory to be used

12.10. Laboratory and field Quality Assurance/Quality Control (QA/QC) procedures:

12.10.1. The Quality Assurance Samples (i.e., duplicates, travel blanks, equipment blanks, field blanks) must be collected and analyzed for the same constituents as the associated samples

12.10.2. The Quality Assurance samples must be labeled in a similar fashion as the property samples. Do not identify these samples as QA/QC samples to the analytical laboratory.

12.10.3. Laboratory data validation shall include a Tier 1A/1B laboratory data validation procedure as an attachment to the draft and final SQR. The laboratory data validation shall be performed in conformance with EPA Region IX Data Validation Guidance and submitted as a report as an appendix. A checklist is not a substitute for a Data Validation Report.

12.11. Statistical Analysis of the sample data in accordance with USEPA SW-846 Test Methods for Evaluating Solid Waste

12.12. Procedures for prevention of cross contamination

The Engineer has 20 working days to review the SAP. If revisions are required, as determined by the Engineer, revise and resubmit the SAP within 15 working days of receipt of the Engineer's comments. The Engineer has 15 working days to review the revisions. Prepare a final SAP that incorporates comments by the Engineer within 5 working days after receipt of comments by the Engineer. Submit four copies of the final approved SAP.

14-11.01D Sampling and Analysis Reports

The Sampling and Analysis Reports must document activities performed and collection and analysis of samples per the SAP. The Sampling and Analysis Reports must include:

1. Data summary tables of analytical results
2. Laboratory data sheets, and data validation report
3. Statistical analysis of sample data
4. Recommended disposal options for all waste types

The Sampling and Analysis Reports must be submitted no more than 30 working days after generation of Type CM, COM, and Z-2 materials (for each phase of the excavation progress if necessary).

14-11.01E Material Management Report

Submit the Z-2, COM, and CM Material Management Report within 20 working days after the last of the Type Z-2, Type COM, and Type CM material has been transported off the job site. Amend the report as needed to address the Engineer's comments.

Include:

1. Volume of waste disposed in each classification
2. Volume of waste disposed at each facility based on the classifications
3. Identification of excavation and source locations of all Type Z-2, Type COM, and Type CM generated
4. Volume of Type Z-2, Type COM, and Type CM material generated from each excavation location
5. Final disposition of the Type Z-2, Type COM, and Type CM material
6. Disposal documentation with dates of individual shipments, copies of manifests and bills of lading

The final report must be sealed and signed by an individual with waste characterization experience and who is either registered as a civil engineer in the State or as a professional geologist in the State. Submit the final report within 15 working days of receipt of the Engineer's comments on the draft report.

Replace Section 14-11.08A MATERIAL CONTAINING HAZARDOUS WASTE CONCENTRATIONS OF AERIALLY DEPOSITED LEAD, General with:

Section 14-11.08 includes specifications for hazardous waste management while excavating, transporting, and disposing of material containing hazardous waste concentrations of lead.

Excavate and dispose of material containing lead under the rules and regulations of the following agencies:

1. US EPA
2. California Environmental Protection Agency
3. CDPH
4. Cal/OSHA
5. California Department of Recycling and Recovery
6. California Air Resources Board

7. California Department of Toxic Substances Control
8. California RWQCB, Region 3, Central Coast
9. San Luis Obispo County Air Pollution Control District

Add to Section 14-11.08B MATERIAL CONTAINING HAZARDOUS WASTE CONCENTRATIONS OF AERIALLY DEPOSITED LEAD, Definitions:

Type COM: Regulated material that must be disposed of at an appropriately permitted CA Class II or CA Class III disposal facility. Type COM material has average ADL concentrations less than 5.0 mg/L soluble lead and more than 80 mg/kg total lead but not exceeding 320 mg/kg total lead. The soluble lead is tested using the California Waste Extraction Test.

Add to Section 14-11.08C MATERIAL CONTAINING HAZARDOUS WASTE CONCENTRATIONS OF AERIALLY DEPOSITED LEAD, Site Conditions:

Type Z-2 and Type COM material exists at the Matthews Open Space (APN 002-482-026).

Replace Section 14-11.08D(2) MATERIAL CONTAINING HAZARDOUS WASTE CONCENTRATIONS OF AERIALLY DEPOSITED LEAD, Excavation and Transportation Plan with:

Comply with Section 14-11.01B.

Add Section 14-11.08D(5) MATERIAL CONTAINING HAZARDOUS WASTE CONCENTRATIONS OF AERIALLY DEPOSITED LEAD, Disposal Documentation:

14-11.08D(5) Disposal Documentation

Submit documentation from receiving landfills confirming appropriate disposal within 5 working days of transporting Type Z-2 or COM material from the project.

Replace *Reserved* in Section 14-11.08G MATERIAL CONTAINING HAZARDOUS WASTE CONCENTRATIONS OF AERIALLY DEPOSITED LEAD, Material Management with:

Do not start excavation of Type Z-2 or COM material until the Health and Safety Plan, Sampling and Analysis Plan, and Excavation, Monitoring, and Transportation Plan have been authorized.

Transfer Type Z-2 and COM material directly from the excavation to containers or trucks for transportation to the disposal facility. Do not stockpile Type Z-2 or COM material.

Prevent the flow of surface water runoff from entering the Type Z-2 or COM excavation areas.

Add to Section 14-11.08I MATERIAL CONTAINING HAZARDOUS WASTE CONCENTRATIONS OF AERIALLY DEPOSITED LEAD, Material Transportation:

Transport excavated Type Z-2 material using:

1. Hazardous waste manifest

2. Hazardous waste transporter with a current DTSC registration certificate and CA Highway Patrol (CHP) Basic Inspection of Terminals (BIT) Program with a satisfactory rating.

Add to Section 14-11.08J MATERIAL CONTAINING HAZARDOUS WASTE CONCENTRATIONS OF AERIALLY DEPOSITED LEAD, Disposal:

Collect and dispose of used non-reusable protective equipment at an appropriately permitted disposal facility.

Replace *Reserved* in Section 14-11.10 NATURALLY OCCURRING ASBESTOS with:

Naturally occurring asbestos (NOA) is not anticipated on the job site. If NOA is encountered on the job site, it must be tested, monitored, and disposed of in accordance with the City's APCD Permit To Operate (Appendix H of the City Standard Specifications).

Testing, monitoring, and disposal of unanticipated NOA will be paid by contract change order.

Replace *Reserved* in Section 14-11.11 DEPARTMENT GENERATED CONTAMINATED SOIL with:

14-11.11A General

Section 14-11.11 includes specifications for handling, stockpiling, transporting, and disposing of Department-generated hydrocarbon contaminated soil. Excavate and dispose of contaminated soil under the rules and regulations of the following agencies:

1. US EPA
2. California Environmental Protection Agency
3. CDPH
4. Cal/OSHA
5. California Department of Recycling and Recovery
6. California air Resources Board
7. California Department of Toxic Substances Control
8. California RWQCB, Region 3, Central Coast
9. San Luis Obispo County Air Pollution Control District

Laboratories used to perform chemical analysis must be certified by the SWRCB Environmental Laboratory Accreditation Program (ELAP) for all analysis to be performed.

14-11.11B Definitions

Type CM: Excavation material containing hydrocarbons requiring special handling and disposal at an appropriately permitted disposal facility. Concentrations of polycyclic aromatic hydrocarbon (PAH) constituents are greater than or equal to San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (SFB RWQCB ESLs) and are below hazardous waste disposal criteria.

14-11.11C Site Conditions
Concentration data and sample location maps are included in the *Report of Findings Supplemental Soil Assessment Activities, Mid-Higuera* Bypass as included in the Supplemental Project Information..

14-11.11D Submittals

14-11.11D(1) General
Not Used

14-11.11D(2) Excavation, Monitoring, and Transportation Plan
Comply with Section 14-11.01B.

14-11.11D(3) Disposal Documentation
Submit documentation of proper disposal from the receiving disposal facility within 5 working days of Type CM material transport from the job site.

14-11.11DE Excavation
Do not start excavation of CM material until the Health and Safety Plan, Sampling and Analysis Plan, and Excavation, Monitoring, and Transportation Plan have been authorized.

Transfer Type CM directly from the excavation to a storage container approved for transport of contaminated material by the US DOT. Do not stockpile Type CM material.

Prevent the flow of surface water runoff from entering the Type CM excavation areas.

14-11.11F Transportation
Before traveling on public roads, remove loose and extraneous material from surfaces outside the cargo areas of the transport vehicles. Place tarpaulins or other cover over the cargo as described in the authorized excavation and transportation plan. You are responsible for costs due to spillage of Type CM material during transport.

14-11.11G Disposal
Transport and dispose of Type CM material under federal and state laws and regulations and county and municipal ordinances and regulations.

Collect and dispose of used non-reusable protective equipment at an appropriately permitted disposal facility.

You are responsible for identifying the appropriately permitted landfill to receive the material and for all associated trucking and disposal costs. The City does not pay for additional sampling and analysis required by the receiving landfill.

Replace the first paragraph of Section 14-11.13A DISTURBANCE OF EXISTING PAINT SYSTEMS ON BRIDGES, General with:
Section 14-11.13 includes specifications relating to the disturbance of an existing paint system on a bridge. The existing paint system on Bridge No. 49C0381 will be disturbed as part of the work activities. The paint system contains lead.

Replace *Reserved* in Section 14-11.13B(3), DISTURBANCE OF EXISTING PAINT SYSTEMS ON BRIDGES, Air Monitoring Reports with:

Air monitoring reports, including test results for samples taken after corrective action, must be prepared by the Certified Industrial Hygienist (CIH)and submitted:

1. Orally within 48 hours after sampling
2. As an informational submittal within 5 working days after sampling

Air monitoring reports must include:

1.Date and location of sample collection, sample number, Contract number, bridge number, name of the structure, and District-County-Route-Post Mile
2.Name and address of the certified laboratory that performed the analyses
3.Chain of custody documentation
4.List of emission control measures in place when air samples were taken
5.Air sample results compared to the appropriate permissible exposure limit (PEL)
6.Corrective action recommended by the CIH to ensure exposure to airborne metals outside containment systems and work areas is within specified limits
7.Signature of the CIH who reviewed the data and made recommendations

Replace *Reserved* in Section 14-11.13B(4) DISTURBANCE OF EXISTING PAINT SYSTEMS ON BRIDGES, Soil Sampling Results for Debris Containment Verification with:

Submit test results of soil analyses verifying debris containment, including results for soil samples taken after corrective action:

1.Orally within 48 hours after sampling
2.As an informational submittal within 5 working days after sampling

Soil sampling results must include:

1.Date and location of sample collection, sample number, Contract number, bridge number, name of the structure, and District-County-Route-Post Mile
2.Concentrations of heavy metals expressed in mg/kg and mg/L
3.Name and address of the certified laboratory that performed the analyses
4.Chain-of-custody documentation

Replace *Reserved* in Section 14-11.13D DISTURBANCE OF EXISTING PAINT SYSTEMS ON BRIDGES, Work Area Monitoring with:

14-11.13D(1) General

Monitor the ambient air and soil in and around the work area to verify the effectiveness of the containment system. Work area monitoring includes:

1.Collecting, analyzing, and reporting air and soil test results
2.Recommending corrective action whenever specified air or soil concentrations are exceeded

Collect air and soil samples at locations designated by the Engineer.

14-11.13D(2) Air Monitoring

Air monitoring must be performed under the direction of a CIH.

Collect and analyze air samples to detect lead under the NIOSH Method 7082 using a detection limit of at least 0.05 µg/m^3. Collect and analyze air samples to detect other metals under NIOSH Method 7300 using a detection limit of at least 1 percent of the appropriate PEL specified by Cal/OSHA. You may use alternative methods of sampling and analysis with equivalent detection limits.

Concentrations of airborne metals outside containment systems and work areas must not exceed any of the following:

1. Average of 1.5 µg/m^3 of air per day and 0.15 µg/m^3 per day on a rolling 90 calendar day basis. Calculate the average daily concentrations based on accumulated monitoring data and projections based on monitoring trends for the next 90 calendar days or to the end of the work subject to the lead compliance plan if less than the specified averaging period.
2. 10 percent of the action level specified for lead by 8 CA Code of Regs §1532.1.
3. 10 percent of the appropriate PELs specified for other metals by Cal/OSHA.

Collect air samples daily during work activities that disturb the existing paint system. Air samples must be analyzed within 48 hours by a facility accredited by the Environmental Lead Laboratory Accreditation Program of the American Industrial Hygiene Association. If concentrations of airborne metals exceed allowable levels, modify the containment system or work activities to prevent further release of metals. If the CIH recommends corrective action, collect and analyze additional samples after implementing the corrective action unless ordered otherwise.

14-11.13D(3) Soil Sampling for Debris Containment

Collect 4 soil samples before starting work and collect 4 soil samples within 36 hours after cleaning existing steel. A soil sample consists of 5 plugs, each 3/4 inch in diameter and 1/2 inch deep, taken at each corner and center of a 1 sq yd area. Analyze soil samples for:

1. Total lead by US EPA Method 6010B or US EPA Method 7000 series
2. Soluble lead by California Waste Extraction Test (CA WET)

The laboratory that analyzes the samples must be certified by the SWRCB's ELAP for all analyses to be performed.

Concentrations of heavy metals in the work area's soil must not increase when the existing paint system is disturbed. If soil sampling shows an increase in the concentrations of heavy metals after completing the work:

1. Clean the affected area
2. Resample until soil sampling and testing shows concentrations of heavy metals less than or equal to the concentrations collected before the start of work

Add to the end of the 1st paragraph of Section 14-11.13F DISTURBANCE OF EXISTING PAINT SYSTEMS ON BRIDGES, Debris Waste Characterization:

This waste characterization testing must include:

1. Total lead by US EPA Method 6010B
2. Soluble lead by California Waste Extraction Test (CA WET)

3. Soluble lead by Toxicity Characteristic Leaching Procedure (TCLP)

Add to the beginning of Section 14-11.13G(2) DISTURBANCE OF EXISTING PAINT SYSTEMS ON BRIDGES, Debris Transport and Disposal, Hazardous Waste Debris:

After the Engineer accepts the waste characterization test results, dispose of the debris:

1. Within 30 working days after accumulating 220 lb of debris
2. At a DTSC-permitted Class I facility located in California

Make all arrangements with the operator of the disposal facility.

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

15 EXISTING FACILITIES

Delete the 7th paragraph of Section 15-1.03B CONSTRUCTION, Removing Concrete.

Add to the end of Section 15-1.03C, Salvaging Facilities:

Provide a minimum 72 hours notice to Bobby Browning, City's Bridge Specialist, before removing or disassembling the Bailey Bridge superstructure. Do not remove or disassemble the Bailey Bridge without City's Bridge Specialist on site. Catalog and package the disassembled bridge, including superstructure, decking, bearings, railings, etc., as directed by City's Bridge Specialist or the Engineer.

Contractor is responsible for offloading and stockpiling the materials at the Corporation yard as directed by the City Bridge Specialist.

At least 5 business days before hauling the material to the salvaged material stockpile location, notify the City Bridge Specialist.

Bobby Browning
Telephone: (805)783-7854
Email: bbrowning@slocity.org

The stockpile location is:
City Corporation Yard
25 Prado Road
San Luis Obispo, CA 93401

Replace *Reserved* in Section 15-1.03E EXISTING FACILITIES, CONSTRUCTION, with:

15-1.03E Remove Existing Building

Remove all components of existing buildings designated for removal, including:

1. Above-ground structure

2. Below-ground foundation
3. Interior facilities
4. Utility connections

Comply with the requirements of the Building Permit.

15-1.03E(1) Utility Connections
All utility and services to the existing building must be disconnected and capped or otherwise permanently closed. Expose and identify all utility or service connections prior to any removals. Provide submittal of proposed utility abandonment and disconnections at least 5 working days prior to the removal or abandonment.

Provide record drawings of the utility disconnections and abandonment.

15-1.03E(2) Payment
Bid item Remove Building is paid by lump sum, and includes all labor, materials, tools, equipment, and incidentals to complete the work.

16 TEMPORARY FACILITIES

Add to Section 16-2.03A(1) HIGH VISIBILITY FENCES, Summary:
High visibility fence must:

1. Be installed as the first order of work
2. Remain in place
3. Be continually maintained
4. Be removed as the last item of contract work, excluding the plant establishment period.

Add to Section 16-2.03C HIGH VISIBILITY FENCES, Construction:
Install high visibility fences as shown on the drawings and as directed by the Engineer.

Replace *Reserved* in Section 16-3 with:

16-3 TEMPORARY CONSTRUCTION ACCESS

16-3.01 GENERAL
Section 16-3 includes specifications for constructing and removing temporary construction access across San Luis Obispo Creek and restoring creek bed and banks to original condition. Temporary structure must comply with Section 48-7 of these special provisions.

Grading of the creek banks must comply with Section 19. All work performed on the storm drain must comply with Section 71 and Section 77.

16-3.01B Definitions
Not used

16-3.01C Submittals

16-3.01C(1) Temporary Construction Access Plan

Within 30 calendar days of Contract award, submit 3 copies of the Temporary Construction Access Plan (TCAP). The TCAP must include:

1. Installation and removal process, including equipment and access locations.
2. Plan showing location of construction access, including layouts, cross sections, and elevations.
3. Materials proposed for use.
4. Provisions for maintaining operation of the existing storm drain.

If revisions are required, the Engineer notifies you of the date when the review stopped and provides comments. Submit a revised TCAP within 15 working days of receiving the comments. The Department's review resumes when a complete TCAP has been resubmitted.

Submit an electronic copy on a read-only CD, DVD, or other Engineer-authorized data storage device and 4 printed copies of the authorized TCAP.

If the RWQCB or other regulatory agency requires review of the authorized TCAP, the Engineer submits it to the RWQCB for review and comment. If the Engineer orders changes to the TCAP based on the RWQCB's comments, submit a revised TCAP within 10 working days.

All submittals which include plans, specifications, and calculations must be sealed and signed by a civil engineer registered in the State.

16-3.01D Quality Assurance

Not used

16-3.02 MATERIALS

Materials placed below top of bank must be in accordance with Section 13-12.

16-3.03 CONSTRUCTION

16-3.03A General

Construction, use, and removal of the TCAP is restricted to the time period in the PLACs. If the work cannot be completed during the initial restricted time period, remove TCAP, restore the creek to original flow condition, and reconstruct the TCAP the following year. No work is allowed within the stream except during the restricted time period.

Do not use motorized equipment or vehicles in areas of flowing or standing water for the construction or removal of the TCAP in compliance with Section 13-4.03.

Remove vegetation to ground level and clear away debris.

Place temporary or permanent fill as allowed by PLACs and as specified in Section 14-6.

16-303B Removal
When no longer required, remove all components of TCAP. Return the creek bed and banks to the original condition.

TCAP must be removed if project has a winter suspension and re-installed after winter suspension if needed for work.

Do not excavate the native creek bed material. Backfill ground disturbance below OHWM, including holes and depressions caused by the installation and removal of the TCAP, with gravel. Gravel must comply with Section 13-12.02A. Maintain the original line and grade of the creek bed.

DIVISION III EARTHWORK AND LANDSCAPE

17 GENERAL

Add Section 17-2.01A CLEARING AND GRUBBING, GENERAL, Definitions:

17-2.01A Definitions
Diameter at Breast Height (DBH): Measurement of tree trunk diameter approximately 4.5 feet above ground level. If a tree has multiple trunks starting at or below this level, then DBH is equal to the sum of all trunk diameters measured at approximately 4.5 feet above ground level.

Add to Section 17-2.03A CLEARING AND GRUBBING, CONSTRUCTION, General:

Tree removal is limited to September 1 through February 28 to avoid potential impacts to nesting birds unless a survey by a City-supplied biologist determines the absence of nesting birds.

Removal and trimming of Eucalyptus trees is limited to March 16 to September 14 to avoid potential impacts to monarch butterflies, unless a survey by a City-supplied biologist determines the absence of nesting birds and monarch butterflies.

Removal of tree stumps is not restricted by the dates listed above.

Replace the 4th paragraph in Section 17-2.03A CLEARING AND GRUBBING, CONSTRUCTION, General with:

Clear and grub vegetation only within the excavation and embankment slope lines and contour grading limits.

Replace the 2nd paragraph of Section 17-2.03B CONSTRUCTION, Clearing:

Prune trees under Section 20-3.01C(2).

Replace Section 17-2.03C CONSTRUCTION, Grubbing with:

17-2.03C Grubbing
Grub all construction areas to a depth necessary to remove all trees identified for removal, buried logs, and other objectionable material, except embankment areas where the grading plane is 2 feet or more above original ground.

Where trees are shown on the drawings to be removed to existing ground, cut off trees and stumps not more than 1 foot above original ground. Stumps and roots below ground must remain unless approved by the Engineer.
In embankment areas where the grading plane is 2 feet or more above original ground, cut off trees, stumps, and roots not more than 1 foot above original ground, except remove trees, stumps, and roots completely where work includes any of the following:

1. Bridge construction
2. Subdrainage trench excavation

Replace Section 17-2.04 CLEARING AND GRUBBING, Payment with:

Payment for Remove Tree is per the DBH shown on the drawings or as measured in the field by a City representative.

Payment for Clearing and Grubbing includes removal of trees less than 8-inches DBH.

19 EARTHWORK

Replace the 2nd paragraph in Section 19-1.01A GENERAL, Summary with:

Performing earthwork activities includes removal of unsuitable material and buried man-made objects.

Add to Section 19-1.03A CONSTRUCTION, General:

All backfill within the San Luis Obispo Creek bed must be native creek bed material or gravel in compliance with Section 13-12.02A.

All backfill within the San Luis Obispo Creek banks must be native creek bank material.

Replace the 2nd, 3rd, and 4th paragraph of Section 19-2.03B ROADWAY EXCAVATION-CONSTRUCTION, Surplus Material with:

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

Replace the numbered list in Section 19-2.04 ROADWAY EXCAVATION-PAYMENT with:

1. Embankment construction unless a separate bid item for constructing embankments is shown on the Bid Item List
2. Local borrow excavation

Replace the 6th paragraph in Section 19-2.04 ROADWAY EXCAVATION-PAYMENT with:

The payment quantity for ditch excavation is the volume determined from average areas and the distances between them. If the nature of a particular operation make determining the quantities of ditch excavation based on average end areas impractical, the payment quantity is the volume determined using a method best suited to obtain an accurate quantity and approved by the Engineer.

Add to the beginning of Section 19-3.03B(1) CONSTRUCTION, Structure Excavation, General:

For footings at locations with structure excavation (Type D), ground or surface water is expected to be encountered but seal course concrete is not needed.

Replace 1st sentence in the 6th paragraph in section 19-3.03B(4) CONSTRUCTION, Structure Excavation, Cofferdams with:

Remove cofferdams completely after completing substructure construction.

Add to section 19-3.04 PAYMENT:

Except at locations where seal course concrete is shown, structure excavation for footings at locations not shown as structure excavation (Type D) and where ground or surface water is encountered is paid for as structure excavation (Type D).

20 LANDSCAPE

Replace *Reserved* in Section 20-2.14 TEMPORARY IRRIGATION SYSTEMS with:

20-2.14 TEMPORARY IRRIGATION SYSTEMS

20-2.14A General

20-2.14A(1) Summary

Section 20-2.14 includes specifications for installing and removing temporary irrigation systems and applying water.

Connection to the City's potable water distribution system is available through the new quick connect couplers installed as part of the work, and through an existing City-owned quick connect coupler located at Eto Park (APN 004-741-004). Contractor shall ensure that the temporary irrigation design and use shall not impact current irrigation at Eto Park. If the designed system is found to negatively impact irrigation operations at Eto Park, it shall be revised and resubmitted such that it does not impact operations.

Contractor shall protect in place all existing irrigation facilities.

20-2.14A(2) Definitions

Not used.

20-2.01A(3) Submittals

20-2.01A(3)(a) Temporary Irrigation System Plan

At least 30 working days before installation, submit drawings and specifications showing the location, equipment, materials, and methods of construction including anchoring.

Allow 15 working days for the Engineer's review.

20-2.01A(3)(b) Watering Schedule
Submit a seasonal watering schedule for approval at least 10 working days before use of the temporary irrigation system.

Allow 5 working days for the Engineer's review.

20-2.14A(4) Quality Assurance
Not used.

20-2.14B Materials
Materials must comply with Section 20-2.

Irrigation supply line must be UV resistant.

Prioritize use of drip or microspray irrigation systems.

20-2.14C Construction
Install the temporary irrigation system per the approved plan and apply water as required to conform with Section 20-4.

When temporary irrigation system is installed on grade, anchor all equipment to the ground surface every 10 feet min. at pipe joins, and at sprinkler locations. Use a commercially available pipe anchor system. Mainline piping shall be installed out of the creek high flow area.

The system must be installed to not interfere with traffic or other construction activity.

Relocation of the temporary irrigation system may be necessary as the work progresses. Remove, store, and reconnect temporary irrigation components as necessary.

Unless authorized by the Engineer to have the temporary irrigation system to remain in place, remove components of the temporary irrigation system not more than 10 working days following the end of the three year plant establishment period.

Backfill holes, trenches, and any ground disturbance with topsoil under section 19-5. Compact sufficiently to eliminate air pockets.

20-2.01D Payment
The City does not pay for the relocation of temporary irrigation system during work progress.

Payment for the three-year maintenance period shall include the cost of water to establish and maintain the plant material. The contractor shall set up an account with the city for the landscape meters shown on the plans.

Failure to maintain the landscape area as required for any quarter will cause the forfeiture of payment for that payment period.

Payment includes removal of the temporary irrigation system.

Replace Section 20-3.01B(2)(b)(iv) GENERAL Cottonwood Cuttings with:

Cottonwood cuttings or container stock will be provided by the City. If directed by the Engineer, obtain additional cuttings from within the project area. Flag intended cuttings for approval by the Engineer prior to removal.

Cottonwood cuttings for planting in RSP must be:

1. 2.5 to 5.0-inches diameter at the base of the cutting
2. 7 to 10-feet long

Cottonwood cuttings for planting in soil must be:

1. 1.5 to 3.0-inches diameter at the base of the cutting
2. 3 to 5-feet long

All cuttings must be:

1. Reasonably straight
2. Cut with sharp equipment and clean cuts
3. Cut from live wood 2-7 years old with smooth bark which is not split or deeply furrowed

When taking cuttings, remove the apical bud (tip of the branch) plus at least several inches of the cutting. Cut the top at an angle and the bottom straight to identify the proper orientation when planting. Trim off all side branches so cutting is a single stem.

Store cuttings in an area that is dark, moist, and cool at all times.

Prior to planting, soak cuttings completely covered in water for 5-8 days. Do not let portions become exposed and sprout roots. Remove cuttings from the water prior to root emergence from the bark.

Replace Section 20-3.01C(2) PLANTING, Construction, Pruning with:

Prune the trees identified to be pruned on the Drawings and as approved by the Engineer. Prune the minimum extent necessary to complete the work.

Provide a certified arborist to prune trees in compliance with American National Standard Institute:

1. ANSI A300 – Pruning Requirements
2. ANSI Z133.1 – Safety Requirements

Prune tree roots under Section 77-1.03A(2)(g).

Provide tree care compliant with the International Society of Arboriculture Best Management Practices.

Replace Section 20-3.02C(3)(d)(iii) PLANTING WORK, Cottonwood Cuttings with:

Plant cottonwood cuttings immediately after grading operations are complete. Apply root stimulant in accordance with the manufacturer's instructions.

Plant such that 3 to 5 bud scars are exposed above ground. If more than 5 bud scars are exposed, trim off the excess.

Backfill the plant holes with excavated material after planting. Distribute the excavated material evenly within the hole without clods, lumps, or air pockets. Compact the backfill such that the cutting cannot be easily removed from the soil.

Do not damage the cutting's bark.

Cottonwood cuttings planted in soil:

1. Excavate planting holes for cottonwood cuttings perpendicular to the ground by using a steel bar, auger, post hole digger, or similar hand tool.
2. If rock or other hard material prohibits the excavation of the planting holes, excavate new holes and backfill the unused holes.
3. Plant the base of the cutting from 20 to 24-inches deep.

Cottonwood cuttings planted in RSP:

1. Plant the cuttings vertically in the RSP.
2. Plant the base of the cutting at least 12-inches below the bottom of the gravel filter.

Replace *one year* in the 2nd paragraph of Section 20-4.01A PLANT ESTABLISHMENT WORK, Summary with:

three years

Add to Section 20-4.01A PLANT ESTABLISHMENT WORK, Summary:

Plant establishment will be Type 1 plant establishment per the State Standard Specifications for three years.

Add to Section 20-4.03B PLANT ESTABLISHMENT WORK, Plant Growth Control:

Prevent invasive species from resprouting during plant establishment period. Remove any invasive species that have resprouted during the plant establishment period.

Replace *one-year* in the 2nd paragraph of Section 20-4.04 PLANT ESTABLISHMENT WORK, Payment with:

three-year

Add Section 20-5.02B(6) CREEK HABITAT BOULDERS:

Creek Habitat Boulders must comply with the requirements in the rock material requirements table in Section 72-2.02B.

Creek Habitat Boulders must be rounded to sub-angular in shape with the dimension shown on the drawings.

The dimensions of individual boulders may vary from that shown on the drawings by 8-inches in any axis. For each size class, the combined boulders supplied must average the stated size for each axis.

Add Section 20-5.02C(5) CREEK HABITAT BOULDERS:

Placement of Creek Habitat Boulders must be Method A and comply with section 72-2.

Place Creek Habitat Boulders where shown on the drawings and arrange as directed by the Engineer. Place boulders partially buried and projecting above the streambed as indicated on the drawings or as directed by the Engineer. After placement is complete, place native stream bed material to the finished lines and grades and apply water to wash small fraction bed material into all voids.

21 EROSION CONTROL

Replace Section 21-2.02C(2) MATERIALS, Local Topsoil with:

Local topsoil must comply with the specifications for selected material in section 19 and consist of the excavated topsoil, including organic material and leaf litter. Local topsoil must be obtained from the excavation of the South Street Bypass and Bianchi Lane Bypass channels.

DIVISION V SURFACINGS AND PAVEMENTS

39 ASPHALT CONCRETE

Add Section 39-3.05:

39-3.05 REMOVE BASE AND SURFACING

39-3.05A General

Section 39-3.05 includes specifications for removing base and asphalt concrete surfacing.

39-3.05B Materials

Not Used

39-3.05C Construction

Where base and surfacing are described to be removed, remove base and surfacing to a depth of at least 6 inches below the grade of the existing surfacing.

Within areas that will not be paved as part of the work:

1. Remove base and surfacing to the depth required to remove all surfacing, or at least 6 inches below the grade of existing surfacing, whichever is greater.
2. Backfill resulting holes and depressions with embankment material in accordance with Section 19.

39-3.05D Payment

Removal of base and surfacing is paid by the surface area measured along the surface.

DIVISION VI STRUCTURES

48 TEMPORARY STRUCTURES

Replace *Reserved* in Section 48-7 with:

48-7 TEMPORARY BRIDGE

48-7.01 GENERAL

48-7.01A Summary

Section 48-7 includes specifications for constructing a temporary bridge for a detour on the project at the following locations:

- Location A: Near the north end of the project at the Matthews Open Space. This temporary bridge is for APN 002-482-017 use only. No construction access is allowed.

Location B: Bianchi Lane over San Luis Obispo Creek. This temporary bridge is optional and may be used for construction access in lieu of, and in the same location as, the existing Bianchi Lane Bridge.

APN 002-482-017 may not be used for construction access or storage of materials and equipment.

You must design, construct, and maintain a temporary bridge and roadway approaches that:

1. Is safe and adequate
2. ADA compliant
3. Provides the necessary rigidity
4. Supports the loads imposed
5. Produces a finished structure that conforms to the existing approaches
6. Meets AASHTO Greenbook standards for a design speed of 25 mph

The temporary bridge at Location A may be in place only between April 15 and November 1 unless otherwise approved by the Engineer.

The contractor may elect to utilize the City-owned Bailey Bridge for the temporary structure. If City-owned Bailey Bridge is utilized, contractor must:

1. Have representative from Bailey Bridge inspect the existing condition of the bridge and provide written certification they are acceptable for use
2. Replace all members deemed not suitable for use by Bailey Bridge
3. Replace all connection hardware including bolts, washers, etc. with new materials

4. Have representative from Bailey Bridge present during erection and removal; Bailey representative must certify that the bridge was erected correctly and is safe for passage.
5. Return the bridge to the City per Section 15-1.03C after use.

48-7.01B Definitions
Not Used.

48-7.01C Submittals

48-7.01C(1) General
Submit a certificate of compliance for each delivery of structural composite lumber used in a temporary structure.

Submit a letter of certification that certifies all components of the manufactured assemblies are used in compliance with the manufacturer's recommendations.

If requested (1) submit manufacturer's data for manufactured assemblies to verify manufacturer's recommendations or (2) perform tests demonstrating adequacy of the proposed assemblies.

Submit a letter of certification for all temporary structure members with field welded splices. The letter must certify that all welding and NDT, including visual inspection, comply with the Contract and the welding standard shown on the shop drawings. The letter must be signed by an engineer who is registered as a civil engineer in the State of California. Submit the letter before placing any concrete on the temporary structure being certified.

Submit a welding certification for temporary structure with previously welded splices. The certification must:
1. Itemize the testing and inspection methods used
2. Include tracking and identifying documents for previously welded members
3. Be signed by an engineer who is registered as a civil engineer in the State of California
4. Be submitted before erecting the members

48-7.01C(2) Shop Drawings
Submit shop drawings with supporting calculations for temporary structure including roadway approach horizontal and vertical alignment.

Shop drawings and calculations must be signed by an engineer who is registered as a civil engineer in the State of California.

Submit 6 sets of temporary structure drawings and 2 sets of design calculations. Include the following:
1. Details of erection and removal activities.

2. Methods and sequences of erection and removal, including equipment.
3. Details for the stability of temporary structure during all stages of erection and removal activities.
4. Assumed soil bearing values for temporary structure footings.
5. Grade (E-value), species, and type of any structural composite lumber. Include manufacturer's tabulated working stress values for the lumber.
6. Grade and material properties of any structural steel, aluminum, or reinforced concrete used for members in the Temporary Bridge.
7. Design calculations including stresses and deflections in load carrying members.
8. Provisions for complying with temporary bracing requirements.
9. Welding standard used for welded members and welded connection (both shop and field welds).

48-7.01D Quality Control and Assurance

48-7.01D(1) Welding and Nondestructive Testing

Welding must comply with AWS D1.1 or other recognized welding standard except (1) for previously welded splices and (2) if fillet welds are used where load demands are 1,000 lb or less per inch for each 1/8 inch of fillet weld.

Perform NDT on splices made by field welding at the job site. You may use UT or RT. Each field weld and any repair made to a previously welded splice must be tested. You must select locations for testing. The length of a splice weld where NDT is to be performed must be a cumulative weld length equal to 25 percent of the original splice weld length. The cover pass must be ground smooth at test locations. Acceptance criteria must comply with the specifications for cyclically loaded nontubular connections subject to tensile stress in clause 6 of AWS D1.1. If repairs are required in a portion of the weld, perform additional NDT on the repaired sections. The NDT method chosen must be used for an entire splice evaluation, including any repairs.

For previously welded splices, you must determine and perform all necessary testing and inspection required to certify the ability of the temporary structure members to sustain the design stresses.

48-7.01D(2) Design Criteria

48-7.01D(2)(a) General

The Temporary Bridge must:

1. Fit with the area defined on the drawings.
2. Provide a traveled way width for one – 13’-7” minimum traffic lane.
3. Clear span the creek channel (Location A only).
4. Provide a minimum bridge barrier 32” tall with a TL-2 crash rating under AASHTO Manual for Assessing Safety Hardware (MASH) or NCHRP Report 350. Secured type K temporary railing or other approved system may be used.
5. Provide a non-slip surface for vehicles
6. Not encroach into the channel or into the protected tree areas shown.
7. Meet all PLAC requirements
8. Meet AASHTO Greenbook standards for a design speed of 25 mph.

48-7.01D(2)(b) Loads

Design the Temporary Bridge under latest version of the AASHTO LRFD Bridge Design Specifications and its Amendments, with the following exceptions and modifications.

The loads for the Temporary Bridge must be combined under the load combinations specified in the code to determine the load combinations creating the highest stresses and deflections.

For vertical loads, all factored dead loads and legal vehicles (HL-93 plus lane load) loads combinations must be considered. Impact must be included to all vehicular loads.

The City does not adjust payment for a Temporary Bridge with a greater vehicle load to assist in your construction of the project. If construction loads beyond the legal vehicle (HL-93 plus lane load) are to be considered, they must be applied as in consideration of the Strength II load combination.

For lateral loads in the longitudinal direction of the Temporary Bridge, the following combinations of lateral loads must be considered, and the bridge must be designed to the larger of these:

1. Braking force of the applied vehicle live loads equal to 15 percent of the vehicle live load applied at 6 foot above the deck surface of the Temporary Bridge plus Wind Loads.
2. 25 percent of the Temporary Bridge dead load, factored by 1.0, and applied at the center of gravity of the bridge.

For lateral loads in the transverse direction of the Temporary Bridge, the following combinations of lateral loads must be considered, and the bridge must be designed to the larger of these:

1. The lateral load combinations listed the Caltrans' Falsework Manual.
2. Wind Loads.
3. 25 percent of the Temporary Bridge dead load, factored by 1.0, and applied at the center of gravity of the bridge.

Wind loads must be applied according to the latest edition of the AASHTO LRFD Bridge Design Specifications and the Caltrans Amendments.

48-6.01D(2)(c) Stresses, Loadings, and Deflections

The capacities of all members and connections of the Temporary Bridge must be based on latest edition of the AASHTO LRFD Bridge Design Specifications and its Amendments with appropriate reduction factors, with the following exceptions and modifications.

Design timber connections under the Caltrans' Falsework Manual.

Expect for flexural compressive stress, structural steel members and connections may be designed under LRFD criteria from the AISC Steel Manual.

The Temporary Bridge must be mechanically connected to its foundation. The mechanical connections must be capable of resisting the lateral temporary structure design forces. Friction forces developed between the Temporary Bridge and its foundations cannot be used to resist lateral forces and are not considered as an effective mechanical connection. The mechanical connections must be designed to tolerate adjustments to the Temporary Bridge during its use as a detour.

48-7.01D(2)(c)(i) Manufactured Assemblies
Do not exceed the manufacturer's recommendations for loadings and deflections on jacks, brackets, columns, joists, and other manufactured devices.

48-7.02 MATERIALS
Not Used.

48-7.03 CONSTRUCTION

48-7.03A General
Install temporary bracing as necessary to withstand all imposed loads during erection, construction, and removal of the Temporary Bridge.

Construct the Temporary Bridge on solid footings capable of supporting the Temporary Bridge loads. Protect footings from softening and undermining. The Engineer may order you to verify the design soil bearing values do not exceed the soil capacity using load testing.

The use of temporary structure piles is not permitted.

48-7.03C Removal
Remove the Temporary Bridge such that portions of the Temporary Bridge not yet removed remain stable at all times.

Completely remove roadway approaches placed for the temporary structure.

You must remove Temporary Bridge foundations to at least 2 feet below the original ground. Remove the Temporary Bridge foundations within ditch or channel excavation limits to at least 2 feet below the bottom and side slopes of the excavated areas.

Restore the disturbed area to its original condition if not identified in the plans.

Dispose of Temporary Bridge materials and work debris in an approved manner.

48-7.04 PAYMENT
Payment for Temporary Bridge Location A includes placement and removal of the aggregate base approach ramp and temporary driving surface as shown on the drawings.

Replace Reserved in Section 48-8 with:

48-8 TEMPORARY BRIDGE STRENGTHENING

48-8.01 GENERAL

48-8.01A Summary

Section 48-8 includes specifications for designing, providing, maintaining and removal of temporary bridge strengthening for existing structures for Contractor's equipment and during material hauling in excess of the restricted bridge width and posted load over the bridge.

The existing Bianchi Lane Bridge is posted for legal loads. The left 5 feet of bridge is closed to traffic until damaged stringers are fixed. As-builts, Load Rating, and Bridge Inspection Reports are included in the Supplemental Project Information.

If full width of existing bridge is to be used, you must design, construct, and maintain a temporary bridge strengthening system that:

1. Is safe and adequate
2. Provides the necessary rigidity
3. Supports the imposed loads
4. Provides a completed structure that conforms to the current load rating

Verify the weight of loaded materials and hauling equipment by weighing when required by the Engineer. Scales will be of the individual wheel or axle type and furnished by the Contractor. The weighing will be done within the limits of the project and within the County highway right of way at a location accessible to the equipment and suitable for weighing operations. The exact location of the weighing will be determined by the Contractor.

48-8.01B Definitions

frame: Portion of a bridge between expansion joints.

48-8.01C Submittals

48-8.01C(1) General

Submit 2 copies of the initial location survey of the existing structure signed by an engineer who is registered as a civil engineer in the State.

48-8.01C(2) Shop Drawings

Submit shop drawings with design calculations for the temporary strengthening. Submit 6 copies of shop drawings and 2 copies of design calculations. Include with the submittal:

1. Descriptions and values of all loads, including construction equipment loads.
2. Descriptions of equipment to be used.
3. Details and calculations for supporting the existing structure.
4. Details and calculations for strengthening the existing structure
5. Assumed soil bearing values and design stresses for temporary supports.

6.

Calculations must show a summary of computed stresses in (1) temporary supports, (2) connections between temporary supports and the existing structure, (3) existing load-supporting members, (4) load rating calculations. Calculations must include a lateral stiffness assessment of the temporary support system.

Shop drawings and calculations must be signed by an engineer who is registered as a civil engineer in the State.

48-8.01D Quality Assurance

48-8.01D(1) General
Welding, welder qualification, and welding inspection for temporary supports must comply with AWS D1.1.

Before starting bridge removal activities, an engineer who is registered as a civil engineer in the State must inspect and certify that the temporary supports, comply with the authorized shop drawings and the materials and workmanship are satisfactory for the work. A copy of this certification must be available at the job site at all times.

48-8.02 MATERIALS

48-8.02A General
Manufactured assemblies must comply with section 48-2.02B(3)(d).
Timber Stringers must comply with Section 57.

48-8.02B Design Criteria
The Engineer does not authorize temporary support designs based on allowable stresses greater than those specified in section 48-2.02B(3).

If falsework loads are imposed on temporary supports, the temporary supports must also satisfy the deflection criteria in section 48-2.02B(3).

The temporary support system must support the minimum temporary support design loads and forces. Adjust vertical design loads for the weight of the temporary supports and construction equipment loads, and additional loads imposed by Contractor's activities. Construction equipment loads must be at least 20 psf of deck surface area of the frame involved.

Design temporary support footings to carry the loads imposed without exceeding the estimated soil bearing values or anticipated settlements. You must determine soil bearing values.

Where temporary supports are placed on the deck of an existing structure:

1. Temporary supports must bear either:
   1.1. Directly on girder stems or bent caps of the supporting structure

1.2. On falsework sills that transmit the load to the stems or cap without overstressing any member of the new or existing structure
2. Temporary supports must not induce permanent forces into the completed structure or produce cracking.
3. Place additional temporary supports beneath the existing structure where temporary support loads are imposed on the existing structure. Design and construct the additional temporary supports to support all loads from the upper structure and construction activities.

Provide additional bracing as required to withstand all imposed loads during each phase of temporary support erection and removal. Include wind loads complying with section 48-2.02B(2) in the design of additional bracing.

Mechanically connect (1) the existing structure to the temporary supports and (2) the temporary supports to their foundations. Mechanical connections must be capable of resisting the lateral design forces. Friction forces developed between the existing structure and temporary supports (1) are not considered an effective mechanical connection and (2) must not be used to reduce lateral forces.

Design mechanical connections to accommodate adjustments to the temporary support frame during use.

If the concrete is to be prestressed, design temporary supports to support changes to the loads caused by prestressing forces.

Temporary supports must comply with the specifications for falsework in section 48-2.02B(4).

48-8.03 CONSTRUCTION
Construct temporary supports under the specifications for falsework in section 48-2.03C.

Remove temporary supports under the specifications for falsework in section 48-2.03D.

Remove attachments from the existing structure. Restore concrete surfaces to original conditions except where permanent alterations are shown.

48-8.04 PAYMENT
Not Used

49 PILING

Add to Section 49-1.03 CONSTRUCTION:

Expect difficult pile installation due to the presence of groundwater, overhead utilities, clay, sandy clay and clayey sand, moderately hard to hard bedrock and boulders.

Temporary casings will likely need to be provided and embedded into the weathered bedrock to help control groundwater and support the hole through the alluvium. Slurry can be considered in lieu of casings at your discretion.

Replace *Reserved* in Section 49-3.02A(3)(a) CAST IN DRILLED HOLE CONCRETE PILING, Submittals, General with:

Submit as an informational submittal for the proposed drilling equipment operational capacities or descriptions for:

1. Downward force in lb
2. Torque in ft-lb
3. Rotational speed in rpm
4. Rate of penetration in ft/hr
5. Number and type of drilling cutters or drilling teeth on drilling tool

Add to Section 49-3.02B(6)(c) CAST-IN-DRILLED-HOLE CONCRETE PILING, Materials, Synthetic Slurry:

The synthetic slurry must be one of the materials shown in the following table:

Material	Manufacturer
SlurryPro CDP	KB INTERNATIONAL LLC 735 BOARD ST STE 209 CHATTANOOGA TN 37402 (423) 266-6964
Super Mud	PDS CO INC 105 W SHARP ST EL DORADO AR 71731 (870) 863-5707
Shore Pac GCV	CETCO CONSTRUCTION DRILLING PRODUCTS 2870 FORBS AVE HOFFMAN ESTATES IL 60192 (800) 527-9948
Terragel or Novagel Polymer	GEO-TECH SERVICES LLC 220 N. ZAPATA HWY STE 11A-449A LAREDO TX 78043 (210) 259-6386
BIG FOOT	MATRIX CONSTRUCTION PRODUCTS 50 S MAIN ST STE 200 NAPERVILLE IL 60540 (877) 591-3137
POLY-BORE	BAROID INDUSTRIAL DRILLING PRODUCTS 3000 N SAM HOUSTON PKWY EAST HOUSTON TX 77032 (877) 379-7412

Use synthetic slurries in compliance with the manufacturer's instructions. Synthetic slurries shown in the above table may not be appropriate for a given job site.

Synthetic slurries must comply with the City's requirements for synthetic slurries to be included in the above table. The requirements are available from the Offices of Structure Design, P.O. Box 168041, MS# 9-4/11G, Sacramento, CA 95816-8041.

SlurryPro CDP synthetic slurry must comply with the requirements shown in the following table:

SlurryPro CDP

Quality characteristic	Test method	Requirement
Density During drilling (pcf) Before final cleaning and immediately before placing concrete (pcf)	Mud weight (density), API RP 13B-1, section 4	 ≤ 67.0[a] ≤ 64.0[a]
Viscosity During drilling (sec/qt) Before final cleaning and immediately before placing concrete (sec/qt)	Marsh funnel and cup. API RP 13B-1, section 6.2	 50–120 ≤ 70
pH	Glass electrode pH meter or pH paper	6.0–11.5
Sand content, percent by volume Before final cleaning and immediately before placing concrete (%)	Sand, API RP 13B-1, section 9	 ≤ 1.0

NOTE: Slurry temperature must be at least 40 °F when tested.
[a]If authorized, you may use slurry in a saltwater environment. The allowable density of slurry in a saltwater environment may be increased by 2 pcf.

Super Mud synthetic slurry must comply with the requirements shown in the following table:

Super Mud

Quality characteristic	Test method	Requirement
Density During drilling (pcf) Before final cleaning and immediately before placing concrete (pcf)	Mud weight (density), API RP 13B-1, section 4	 ≤ 64.0[a] ≤ 64.0[a]
Viscosity During drilling (sec/qt) Before final cleaning and immediately before placing concrete (sec/qt)	Marsh funnel and cup. API RP 13B-1, section 6.2	 32–60 ≤ 60
pH	Glass electrode pH meter or pH paper	8.0–10.0
Sand content, percent by volume Before final cleaning and immediately before placing concrete (%)	Sand, API RP 13B-1, section 9	 ≤ 1.0

NOTE: Slurry temperature must be at least 40 °F when tested.
[a]If authorized, you may use slurry in a saltwater environment. The allowable density of slurry in a saltwater environment may be increased by 2 pcf.

Shore Pac GCV synthetic slurry must comply with the requirements shown in the following table:

Shore Pac GCV

Quality characteristic	Test method	Requirement
Density During drilling (pcf) Before final cleaning and immediately before placing concrete (pcf)	Mud weight (density), API RP 13B-1, section 4	 ≤ 64.0[a] ≤ 64.0[a]
Viscosity During drilling (sec/qt) Before final cleaning and immediately before placing concrete (sec/qt)	Marsh funnel and cup. API RP 13B-1, section 6.2	 33–74 ≤ 57
pH	Glass electrode pH meter or pH paper	8.0–11.0
Sand content, percent by volume Before final cleaning and immediately before placing concrete (%)	Sand, API RP 13B-1, section 9	 ≤ 1.0

NOTE: Slurry temperature must be at least 40 °F when tested.
[a]If authorized, you may use slurry in a saltwater environment. The allowable density of slurry in a saltwater environment may be increased by 2 pcf.

Terragel or Novagel Polymer synthetic slurry must comply with the requirements shown in the following table:

Terragel or Novagel Polymer

Quality characteristic	Test method	Requirement
Density During drilling (pcf) Before final cleaning and immediately before placing concrete (pcf)	Mud weight (density), API RP 13B-1, section 4	 ≤ 67.0[a] ≤ 64.0[a]
Viscosity During drilling (sec/qt) Before final cleaning and immediately before placing concrete (sec/qt)	Marsh funnel and cup. API RP 13B-1, section 6.2	 45–104 ≤ 104
pH	Glass electrode pH meter or pH paper	6.0–11.5
Sand content, percent by volume Before final cleaning and immediately before placing concrete (%)	Sand, API RP 13B-1, section 9	 ≤ 1.0

NOTE: Slurry temperature must be at least 40 °F when tested.
[a]If authorized, you may use slurry in a saltwater environment. The allowable density of slurry in a saltwater environment may be increased by 2 pcf.

BIG-FOOT synthetic slurry must comply with the requirements shown in the following table:

BIG-FOOT

Quality characteristic	Test method	Requirement
Density During drilling (pcf) Before final cleaning and immediately before placing concrete (pcf)	Mud weight (density), API RP 13B-1, section 4	 ≤ 64.0[a] ≤ 64.0[a]
Viscosity During drilling (sec/qt) Before final cleaning and immediately before placing concrete (sec/qt)	Marsh funnel and cup. API RP 13B-1, section 6.2	 30–125 55-114
pH	Glass electrode pH meter or pH paper	8.5–10.5
Sand content, percent by volume Before final cleaning and immediately before placing concrete (%)	Sand, API RP 13B-1, section 9	 ≤ 1.0

NOTE: Slurry temperature must be at least 40 °F when tested.
[a]If authorized, you may use slurry in a saltwater environment. The allowable density of slurry in a saltwater environment may be increased by 2 pcf.

POLY-BORE synthetic slurry must comply with the requirements shown in the following table:

POLY-BORE

Quality characteristic	Test method	Requirement
Density During drilling (pcf) Before final cleaning and immediately before placing concrete (pcf)	Mud weight (density), API RP 13B-1, section 4	 62.8-65.8[a] 62.8-64.0[a]
Viscosity During drilling (sec/qt) Before final cleaning and immediately before placing concrete (sec/qt)	Marsh funnel and cup. API RP 13B-1, section 6.2	 50–80 50-80
pH	Glass electrode pH meter or pH paper	7.0–10.0
Sand content, percent by volume Before final cleaning and immediately before placing concrete (%)	Sand, API RP 13B-1, section 9	 ≤ 1.0

NOTE: Slurry temperature must be at least 40 °F when tested.
[a]If authorized, you may use slurry in a saltwater environment. The allowable density of slurry in a saltwater environment may be increased by 2 pcf.

Replace Section 49-3.02B(7) CAST-IN-DRILLED-HOLE CONCRETE PILING, Materials, Reserved with:

49-3.02B(7) Slurry Cement Backfill

Slurry cement backfill must comply with section 19-3.02E.

Add to Section 49-3.02C(1) CAST-IN-DRILLED-HOLE CONCRETE PILING, Construction, General:

If the piling center-to-center spacing is less than 4 pile diameters, do not drill holes or drive casing for an adjacent pile until 24 hours have elapsed after concrete placement in the preceding pile and your prequalification test results for the concrete mix design show that the concrete will attain at least 1800 psi compressive strength at the time of drilling or driving.

For Pier 2, construct outer piles before drilling the middle pile.

Drilling equipment must be equipped with instrumentation to measure accurately the actual downward force in pounds. Instrumentation must be visible for reading.

Add to Section 49-3.02C(2) CAST-IN-DRILLED-HOLE CONCRETE PILING, Construction, Drilled Holes:

Core barrels and rock augers and other tools are necessary to assist in advancing drilled holes.

Replace the 1st paragraph of section 49-3.02C(7) CAST-IN-DRILLED-HOLE CONCRETE PILING, Construction, Construction Joint with:

Section 49-3.02C(7) applies to CIDH concrete piles when a construction joint is shown.

Replace item 5 in the list in the 2nd paragraph of section 49-3.02C(7) CAST-IN-DRILLED-HOLE CONCRETE PILING, Construction, Construction Joint with:

5. Be corrugated metal pipe and placed in a drilled hole. Casings placed in a drilled hole must comply with section 49-3.02C(6).

Replace Section 49-3.02D CAST IN DRILLED HOLE CONCRETE PILING, Payment with:

The payment quantity for Cast-In-Drilled-Hole Concrete Piling is the length measured along the longest side of the pile from the specified tip elevation shown to the plane of pile cutoff.

Changed quantity payment adjustments under Section 9-1.06 of the Standard Specifications shall not apply to this bid item.

50 PRESTRESSING CONCRETE

Replace the 2nd paragraph of section 50-1.01C(3) GENERAL, Submittals, Shop Drawings with:

For initial review, submit 6 copies.

51 CONCRETE STRUCTURES

the second paragraph of Add to Section 51-1.01C(1) GENERAL, Submittals:

If the methacrylate crack treatment is applied to a bridge deck within 100 feet of a residence, business, or public space, submit a public safety plan. Include with the submittal:

1. Copy of public notification letter with a list of delivery addresses and posting locations. The letter must describe the work to be performed and state the treatment work locations, dates, and times. Deliver copies of the letter to residences and businesses within 100 feet of the treatment work and to local fire and police officials, at least 7 calendar days before starting treatment activities. Post a copy of the letter at the job site.
2. Airborne emissions monitoring plan. Plan must include monitoring point locations. A CIH certified in comprehensive practice by the American Board of Industrial Hygiene must prepare and execute the plan.
3. Action plan for protecting the public if levels of airborne emissions exceed permissible levels.
4. Copy of the CIH's certification.

After completing methacrylate crack treatment activities, submit results from monitoring production airborne emissions as an informational submittal.

Replace the 2nd paragraph of section 51-1.01C(1) GENERAL, Submittals, General with:

Submit a deck placement plan for concrete bridge decks. Include in the placement plan your method and equipment for ensuring that the concrete bridge deck is kept damp by misting immediately after finishing the concrete surface.

Replace *Reserved* in Section 51-1.01D(1) GENERAL, Quality Assurance, General with:

The job site must have at least 4 airborne emissions monitoring points, including the mixing point, application point, and point of nearest public contact. Monitor airborne emissions during methacrylate crack treatment activities.

Replace the 1st paragraph of section 51-1.03F(5)(b)(i) CONSTRUCTION, Finishing Concrete, Bridge Deck Surface Texture, General with:

Except for bridge widenings, texture the bridge deck surfaces longitudinally by grinding and grooving.

Add to Section 51-1.04 PAYMENT:

Bar reinforcing steel is included in the payment for “structural concrete, headwall”.

Add to Section 51-4.02D(3) MATERIALS, Fabricating Precast Concrete Members, , Slabs:

Coefficient of friction requirements do not apply for PC concrete slabs.

Add to Section 51-4.03C CONSTRUCTION, Slabs:

Wait 90 calendar days after the girders have been cast before placing the bottom portion of diaphragm concrete.

Wait at least 1 day after the bottom portion of diaphragm concrete and the deck concrete have been placed before placing the remaining concrete diaphragm.

Wait at least 10 calendar days after the remaining portion of diaphragm concrete is placed before vehicle loading the spans.

Add to Section 51-7.01D MINOR STRUCTURES-GENERAL, Payment:

Bar reinforcing steel is included in the payment for "minor concrete (minor structure) (crash cushion pad)".

60 EXISTING STRUCTURES

Add to Section 60-2.01A STRUCTURE REMOVAL-GENERAL:

Remove the following structure:

Bridge No./Structure name	Description of work
Bridge No. 49C0381/San Luis Obispo Creek Bridge	Remove entire bridge completely, including but not limited to steel plate girders, timbers deck and stringers, wearing surface, concrete footings, abutments, wingwalls, and barrier rail

Add to Section 60-2.02A(1) BRIDGE REMOVAL, General, Summary:

Provide protective covers preventing material, equipment, and debris from falling into the creek.

Replace #6 in the 2nd paragraph in Section 60-2.02A(3) BRIDGE REMOVAL, Submittals with:

6. Methods for preventing material, equipment, and debris from falling onto traffic or into the creek.

DIVISION VII DRAINAGE FACILITIES

64 PLASTIC PIPE

Add to Section 64-2.02B PLASTIC PIPE-MATERIALS, Backfill:

Controlled low-strength material and slurry cement backfill may not be used within San Luis Obispo Creek except as shown on the drawings.

Add to Section 64-2.04 PLASTIC PIPE, Payment:

Payment for bid item HDPE Pipe includes any temporary diversion of existing drainage facilities necessary to install the HDPE Pipe and all associated structures.

65 CONCRETE PIPE

Replace Section 65-2.04 REINFORCED CONCRETE PIPE, Payment with:

Payment for bid item Reinforced Concrete Pipe includes any temporary diversion of existing drainage facilities necessary to install the Reinforced Concrete Pipe and all associated structures.

DIVISION VIII MISCELLANEOUS CONSTRUCTION

72 SLOPE PROTECTION

Add to Section 72-2.01 ROCK SLOPE PROECTION-GENERAL:

All RSP is to be soil-filled and vegetated (VRSP).

The gravel filter is associated with streambank rock slope protection (RSP) revetments and used as a buffer between native base soil and RSP to reduce base soil migration and promote free passage of subsurface drainage.

Gravel filter includes its placement on streambank subgrade as shown.

Add Section 72-2.02D ROCK SLOPE PROTECTION-MATERIALS, Gravel Filter:

72-2.02D Gravel Filter:

The gravel filter will consist of hard, durable, clean and washed, gravel, cobble, crushed stone, crushed rock, or any combination of these free from organic material, clay balls, or other deleterious substances.

The aggregate used in the gravel filter must have a durability index not less than 40 and must contain at least 90 percent crushed particles when tested under California Test 205.

The percentage composition by weight of gravel filter in place must comply with the grading requirements shown in the following table:

Gravel Filter Gradation Requirements

Sieve Size	Percent (%) Passing
6”	95-100
4”	65-95
3”	30-65
2”	20-35
1.5”	10-25
1”	0-10

Add to the numbered list in Section 72-2.03C ROCK SLOPE PROECTION-CONSTRUCTION, Placement Method B:

3. As rock is being placed, fill the voids in the RSP with cohesive native soil from the project excavations. Fill voids with soil when rock has been placed to a thickness no more than 1.5 times the nominal size of the rock being placed. Wash the placed soil with water to fill voids and to provide for full rock-to-rock contact for the subsequent rock layer. Repeat rock placement and soil-filling in layers until the full thickness of the RSP layer is accomplished. Place a final layer of soil a minimum of 3" thick over the placed RSP. Compact the final layer of soils with tracked construction equipment.

4. Vegetate the RSP as indicated on the drawings.

Add Section 72-2.03D ROCK SLOPE PROECTION-CONSTRUCTION, Gravel Filter:
Deliver uniform mixture of gravel filter to the site. Spread uniform mixture in layers and shape to thickness and limits shown using suitable equipment.

Local surface irregularities of the gravel filter aggregate must not vary from the planned slope by more than 2 inches as measured at right angles to the slope.

Add to Section 72-2.04 ROCK SLOPE PROTECTION-PAYMENT:Payment for bid items Rock Slope Protection and Gravel Filter include all materials, labor, tools, and equipment necessary for the work, including excavation, soil backfill, and grout.
Gravel Filter is paid by the cubic yard. the payment quantity is the volume determined from the dimensions shown.

75 MISCELLANEOUS METAL

Add to the list in the 2nd paragraph of Section 75-3.01A MISCELLANEOUS BRIDGE METAL-GENERAL, Summary:

6. pipe support backets and anchor bolts

77 LOCAL INFRASTRUCTURE

Replace Section 77-1.03A(2)(a) CONSTRUCTION, Protection Fences with:
Comply with Section 16-2.03.

Replace Section 77-1.03A(2)(g) CONSTRUCTION, Excavation, Grading, Trenching, and Boring with:
No earthwork, including trenching of any depth, or grading cuts or fills, will be allowed within the dripline of trees or shrubs to be saved, except as shown on the drawings or otherwise approved by the Engineer.

If you plan to trench, cut, or fill within the drip line of trees to be saved, layout trench location or limits of cut or fill with chalk or paint, notify the Engineer for review and approval before earthwork begins. If the Engineer approves earthwork within the dripline of trees or shrubs to be saved, earthwork must be done in the manner approved by the Engineer.

During excavation if any roots are encountered less than 1-inch in diameter, the root may be cut by hand tools, leaving a clean cut.

During excavation if any roots are encountered greater than 1-inch in diameter, the root must be protected from:

1. Scarring
2. Drying
3. Then tunneled under.

Except as shown on the drawings. If the roots cannot be protected, you must schedule the Engineer and City Arborist to review excavation and give direction.

Where tree roots are identified on the drawings to be pruned, pruning must be done by a certified arborist per International Society of Arboriculture (ISA) standards.

Shade roots from direct sunlight when exposed by earthwork. Prior to backfilling the Engineer must review pruned or cut roots. Roots must be backfilled within 24 hours of exposure.

All directional boring within dripline of trees to be saved must maintain a minimum depth of 5 feet.

If severe tree or root damage occurs, you may be fined in compliance with the City's tree ordinance.

Add to the numbered list in Section 77-2.01 WATERLINES-GENERAL:

4. Temporary Water Service. The Contractor shall furnish, install, maintain, and remove all temporary pipe and connections during the period of the temporary water service.

Add Section 77-2.01A WATERLINES-GENERAL, Submittals:

77-2.01A Submittals

Submit a temporary water service plan for a temporary water system to provide potable water service to private property APN 002-482-071 to maintain water service for the entire duration of the project. The plan must identify:

1. The type of system, including proposed materials and point of connection to the existing water system, including but not limited to appurtenances and temporary thrust blocks that may be required,
2. The methods of construction, including installation and removal,
3. The maintenance and operation procedures to be used to maintain service throughout the duration of construction,
4. The name and phone number of a contact person and at least one alternate who shall be available on a twenty-four (24) hour basis for repair and/or maintenance of the temporary water system.

Submit the temporary water service plan at least 30 working days before installation of the temporary water system.

Allow 15 working days for the Engineer's review.

Add to Section 77-2.02C WATERLINES-MATERIALS, Joints and Fittings:

All mechanical joint fittings must be restrained with mechanical joint restraints.

Add Section 77-2.02H WATERLINES-MATERIALS, Flexible Expansion Joint:

77-2.02H Flexible Expansion Joint

All flexible expansion joints shall be the Force Balanced FLEX-TEND as manufactured by EBAA Iron, Inc. Eastland, TX., U.S.A, or a City approved equal, and shall comply with the following:

1. Flexible expansion joints shall be installed in the locations indicated on the drawings and shall be manufactured of ductile iron conforming to the material requirements of ASTM A536 and ANSI/AWWA C153/A21.53. Foundry certification of material shall be readily available upon request.

2. Each flexible expansion joint shall be pressure tested prior to shipment against its own restraint to a minimum of 250 PSI. A minimum 2:1 safety factor, determined from the published pressure rating, shall apply.

3. Each flexible expansion joint shall consist of an expansion joint designed and cast as an integral part of a ball and socket type flexible joint, having a minimum per ball deflection of: 25º and 8-inches minimum expansion. The flexible expansion fitting shall not expand or exert an axial imparting thrust under internal water pressure. The flexible expansion fitting shall not increase or decrease the internal water volume as the unit expands or contracts.

4. All internal surfaces (wetted parts) shall be lined with a minimum of 15 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C213. Sealing gaskets shall be constructed of EPDM. The coating shall meet ANSI/NSF-61.

5. Exterior surfaces shall be coated with a minimum of 6 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C116/A21.16.

6. The expansion joint assembly shall be supplied factory pre-set at the midpoint of its movement capability.

7. Manufacturer's certification of compliance to the above standards and requirements shall be readily available upon request. The purchaser (or owner) shall reserve the right to inspect the manufacturer's facility for compliance.

Add Section 77-2.02I WATERLINES-MATERIALS, Linear Expansion Joint:

77-2.02I Linear Expansion Joint

All linear expansion joints shall be the Force Balanced EX-TEND as manufactured by EBAA Iron, Inc. Eastland, TX., U.S.A, or a City approved equal, and shall comply with the following:

1. Linear expansion joints shall be installed in the locations indicated on the drawings and shall be manufactured of ductile iron conforming to the material requirements of ASTM A536 and ANSI/AWWA C153/A21.53. Foundry certification of material shall be readily available upon request.

2. Each expansion joint shall be pressure tested prior to shipment against its own restraint to a minimum of 250 PSI. A minimum 2:1 safety factor, determined from the published pressure rating, shall apply.

3. Each expansion joint shall have 8-inches minimum expansion. The expansion fitting shall not expand or exert an axial imparting thrust under internal water pressure. The expansion fitting shall not increase or decrease the internal water volume as the unit expands or contracts.

4. All internal surfaces (wetted parts) shall be lined with a minimum of 15 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C213. Sealing gaskets shall be constructed of EPDM. The coating shall meet ANSI/NSF-61.

5. Exterior surfaces shall be coated with a minimum of 6 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C116/A21.16.

6. The expansion joint assembly shall be supplied factory pre-set at the midpoint of its movement capability.

7. Manufacturer’s certification of compliance to the above standards and requirements shall be readily available upon request. The purchaser (or owner) shall reserve the right to inspect the manufacturer’s facility for compliance.

Add to Section 77-2.04 WATERLINES-PAYMENT:

In the event that the Contractor fails to repair and/or maintain the temporary water system and the City is required to perform repairs and/or maintenance, all costs associated with said repairs and/or maintenance shall be deducted from the Contract amount.

DIVISION IX TRAFFIC CONTROL DEVICES

83 RAILINGS AND BARRIERS

Replace Section 83-4 with:

83-4 CRASH CUSHIONS

83-4.01 GENERAL

83-4.01A General
Section 83-4 includes specifications for constructing crash cushions.

83-4.01B Materials
The permanent crash cushion shall consist of the following or a City approved equal.

1. CRASH CUSHION (QUADGUARD II 1-BAY).
   Type Quadguard II 1-bay is a potentially reusable, re-directive, non-gating crash cushion for roadside features of 24” or greater in width with use of an approved transition. Type Quadguard II 1-bay must comply with the descriptions shown in the following table:

Backup Width	Manufacturer’s Product Description
24-inch	00QG24024

83-4.01C Construction
Install Type QuadGuard II 1-bay crash cushion under the manufacturer's installation instructions. The Type QuadGuard II 1-bay must be a Tension Strut Backup or a Concrete Backup. A Transition Panel or Side Panel must be used on each side of the backup. Type QuadGuard II 1-bay should only be assembled on an existing or freshly placed and cured concrete base, and the location and orientation of the concrete base and attenuator must comply with the drawings. Concrete anchorage devices used for attaching the crash cushion to the base slab must be limited to those provided by the manufacturer. The concrete anchor slab, including bar reinforcing steel, must comply with Section 51 and 52.

83-4.01D Payment
Not Used

84 MARKINGS

Add to Section 84-2.03C Application of Stripes and Markings:
Preformed thermoplastic is only allowed with the approval of the Engineer.

DIVISION XI MATERIALS

90 CONCRETE

Add to Section 90-1.01C(6) Mix Design:

Concrete must contain a maximum of 15% pozolone or fly ash. Coarse aggregate for concrete must comply with the gradation specifications for the 1-inch x No. 4 primary aggregate nominal size.

DIVISION XIII APPENDICES

APPENDIX A - FORM OF AGREEMENT

THIS AGREEMENT, made on this _____ day of _____, 20__, by and between the City of San Luis Obispo, a municipal corporation and charter city, San Luis Obispo County, California (hereinafter called the Owner) and COMPANY NAME (hereinafter called the Contractor).

WITNESSETH:

That the Owner and the Contractor for the consideration stated herein agree as follows:

ARTICLE 1, SCOPE OF WORK: The Contractor shall perform everything required to be performed, shall provide and furnish all of the labor, materials, necessary tools, expendable equipment, and all utility and transportation services required to complete all the work of construction of

NAME OF PROJECT, SPEC NO.

in strict compliance with the plans and specifications therefor, including any and all Addenda, adopted by the Owner, in strict compliance with the Contract Documents hereinafter enumerated.

It is agreed that said labor, materials, tools, equipment, and services shall be furnished and said work performed and completed under the direction and supervision and subject to the approval of the Owner or its authorized representatives.

ARTICLE II, CONTRACT PRICE: The Owner shall pay the Contractor as full consideration for the faithful performance of this Contract, subject to any additions or deductions as provided in the Contract Documents, the contract prices as follows:

Item No.	Item	Unit of Measure	Estimated Quantity	Item Price (in figures)	Total (in figures)
1.					
2.					
3.					

BID TOTAL: $ .00

Payments are to be made to the Contractor in compliance with and subject to the provisions embodied in the documents made a part of this Contract.

Should any dispute arise respecting the true value of any work omitted, or of any extra work which the Contractor may be required to do, or respecting the size of any payment to the Contractor, during the performance of this Contract, said dispute shall be decided by the Owner and its decision shall be final, and conclusive.

ARTICLE III, COMPONENT PARTS OF THIS CONTRACT: The Contract consists of the following documents, all of which are as fully a part thereof as if herein set out in full, and if not attached, as if hereto attached:

1. Notice to Bidders and Information for Bidders
2. Standard Specifications and Engineering Standards
3. Special Provisions, any Addenda, Plans and Contract Change Orders
4. Caltrans Standard Specifications and Standard Plans 2015
5. Accepted Bid and Bid Bond
6. List of Subcontractors
7. Public Contract Code Sections 10285.1 Statement
8. Public Contract Code Section 10162 Questionnaire
9. Public Contract Code Section 10232 Statement
10. Labor Code Section 1725.5 Statements
11. Bidder Acknowledgements
12. Qualifications
13. Non-collusion Declaration
14. Agreement and Bonds
15. Insurance Requirements and Forms

ARTICLE IV INDEMNIFICATION: The Contractor shall indemnify, defend with legal counsel approved by City, and hold harmless City, its officers, officials, employees and volunteers from and against all liability, loss, damage, expense, cost (including without limitation reasonable legal counsel fees, expert fees and all other costs and fees of litigation) of every nature arising out of or in connection with the Contractor's negligence, recklessness or willful misconduct in the performance of work hereunder or its failure to comply with any of its obligations contained in this Agreement, except such loss or damage which is caused by the sole or active negligence or willful misconduct of the City. Should conflict of interest principles preclude a single legal counsel from representing both the City and the Contractor, or should the City otherwise find the Contractor's legal counsel unacceptable, then the Contractor shall reimburse the City its costs of defense, including without limitation reasonable legal counsel fees, expert fees and all other costs and fees of litigation. The Contractor shall promptly pay any final judgment rendered against the City (and its officers, officials, employees and volunteers) with respect to claims determined by a trier of fact to have been the result of the Contractor's negligent, reckless or wrongful performance. It is expressly understood and agreed that the foregoing provisions are intended to be as broad and inclusive as is permitted by the law of the State of California and will survive termination of this Agreement.

The Contractor obligations under this section apply regardless of whether such claim, charge, damage, demand, action, proceeding, loss, stop notice, cost, expense, judgment, civil fine or penalty, or liability was caused in part or contributed to by an Indemnitee. However, without affecting the rights of the City under any provision of this agreement, the Contractor shall not be required to indemnify and hold harmless the City for liability attributable to the active negligence of City, provided such active negligence is determined

by agreement between the parties or by the findings of a court of competent jurisdiction. In instances where the City is shown to have been actively negligent and where the City's active negligence accounts for only a percentage of the liability involved, the obligation of the Contractor will be for that entire portion or percentage of liability not attributable to the active negligence of the City.

ARTICLE V. It is further expressly agreed by and between the parties hereto that should there be any conflict between the terms of this instrument and the bid of said Contractor, then this instrument shall control and nothing herein shall be considered as an acceptance of the said terms of said bid conflicting herewith.

IN WITNESS WHEREOF, the parties to these presents have hereunto set their hands this year and date first above written.

CITY OF SAN LUIS OBISPO
A Municipal Corporation

_____
Derek Johnson, City Manager

APPROVED AS TO FORM

_____
J. Christine Dietrick
City Attorney

CONTRACTOR:

Name of Company

By:_____
Name of CAO/President
Its: CAO/PRESIDENT

RECORDING REQUESTED BY AND RETURN TO:

PACIFIC GAS AND ELECTRIC COMPANY
300 Lakeside Drive, Suite 210
Oakland, CA 94612
Attn: Land Rights Library

Location: City/Uninc_____
Recording Fee $_____
Document Transfer Tax $ _____
[ ] This is a conveyance where the consideration and Value is less than $100.00 (R&T 11911).
[ ] Computed on Full Value of Property Conveyed, or
[ ] Computed on Full Value Less Liens & Encumbrances Remaining at Time of Sale
[ ] Exempt from the fee per GC 27388.1 (a) (2); This document is subject to Documentary Transfer Tax

_____
Signature of declarant or agent determining tax

(SPACE ABOVE FOR RECORDER'S USE ONLY)

LD# 2230-12-10086 EASEMENT DEED

CITY OF SAN LUIS OBISPO,

hereinafter called Grantor, hereby grants to PACIFIC GAS AND ELECTRIC COMPANY, a California corporation, hereinafter called Grantee, the right from time to time to excavate for, construct, reconstruct, replace (of initial or any other size), remove, maintain, inspect, and use facilities and associated equipment for public utility purposes, including, but not limited to electric, gas, and communication facilities, together with a right of way therefor, on, over, and under the easement area as hereinafter set forth, and also ingress thereto and egress therefrom, over and across the lands of Grantor situated in the City of San Luis Obispo, County of San Luis Obispo, State of California, described as follows:

(APN 002-482-025)

The parcel of land described in the Directors Deed from the State of California to Grantor dated November 7, 1977 and recorded in Volume 2026 of Official Records at page 627, San Luis Obispo County Records.

The easement area is described as follows:

The strips of land of the uniform width of 15 feet, lying 7.5 feet on each side of the alignment of the facilities as initially installed hereunder. The approximate locations of said facilities are shown upon Grantee's Drawing No. 35455902 attached hereto and made a part hereof.

Grantor further grants to Grantee the right to install, replace, maintain, and use anchors with appurtenant guy wires, which will extend outside of said easement area, at locations Grantee shall from time to time deem necessary.

Grantor further grants to Grantee the right, from time to time, to trim or to cut down, without Grantee paying compensation, any and all trees and brush now or hereafter within said easement area, and shall have the further right, from time to time, to trim and cut down trees and brush along each side of said easement area which now or hereafter in the opinion of Grantee may interfere with or be a hazard to the facilities installed hereunder, or as Grantee deems necessary to comply with applicable state or federal regulations.

Grantor also grants to Grantee the right to use such portion of said lands contiguous to said easement area as may be reasonably necessary in connection with the excavation, construction, reconstruction, replacement, removal, maintenance and inspection of said facilities.

Grantor hereby covenants and agrees not to place or construct, nor allow a third party to place or construct, any building or other structure, or store flammable substances, or drill or operate any well, or construct any reservoir or other obstruction within said easement area, or diminish or substantially add to the ground level within said easement area, or construct any fences that will interfere with the maintenance and operation of said facilities.

Grantor further grants to Grantee the right to apportion to another public utility (as defined in Section 216 of the California Public Utilities Code) the right to excavate for, construct, reconstruct, replace, remove, maintain, inspect, and use the communications facilities within said easement area including ingress thereto and egress therefrom.

Grantor acknowledges that they have read the “Grant of Easement Disclosure Statement”, EXHIBIT “A”, attached hereto and made a part hereof.

The legal description herein, or the map attached hereto, defining the location of this utility distribution easement, was prepared by Grantee pursuant to Section 8730(c) of the Business and Professions Code.

This document may be executed in multiple counterparts, each of which shall be deemed an original, but all of which, together, shall constitute one and the same instrument.

The provisions hereof shall inure to the benefit of and bind the successors and assigns of the respective parties hereto, and all covenants shall apply to and run with the land.

Dated: _____, _____.

CITY OF SAN LUIS OBISPO

_____

By:

Print Name:_____

Title:_____

I hereby certify that a resolution was adopted on the ____ day of _____, 20____, by the _____ authorizing the foregoing grant of easement.

By_____ Title_____

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of _____)

On _____, before me, _____ Notary Public,
Insert name

personally appeared _____

_____,

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

_____ (Seal)
Signature of Notary Public

CAPACITY CLAIMED BY SIGNER

[ ] Individual(s) signing for oneself/themselves

[ ] Corporate Officer(s) of the above named corporation(s)

[ ] Trustee(s) of the above named Trust(s)

[ ] Partner(s) of the above named Partnership(s)

[ ] Attorney(s)-in-Fact of the above named Principal(s)

[ ] Other _____

EXHIBIT "A"

GRANT OF EASEMENT DISCLOSURE STATEMENT

This Disclosure Statement will assist you in evaluating the request for granting an easement to Pacific Gas and Electric Company (PG&E) to accommodate a utility service extension to PG&E's applicant. **Please read this disclosure carefully before signing the Grant of Easement.**

- You are under no obligation or threat of condemnation by PG&E to grant this easement.

- The granting of this easement is an accommodation to PG&E's applicant requesting the extension of PG&E utility facilities to the applicant's property or project. Because this easement is an accommodation for a service extension to a single customer or group of customers, PG&E is not authorized to purchase any such easement.

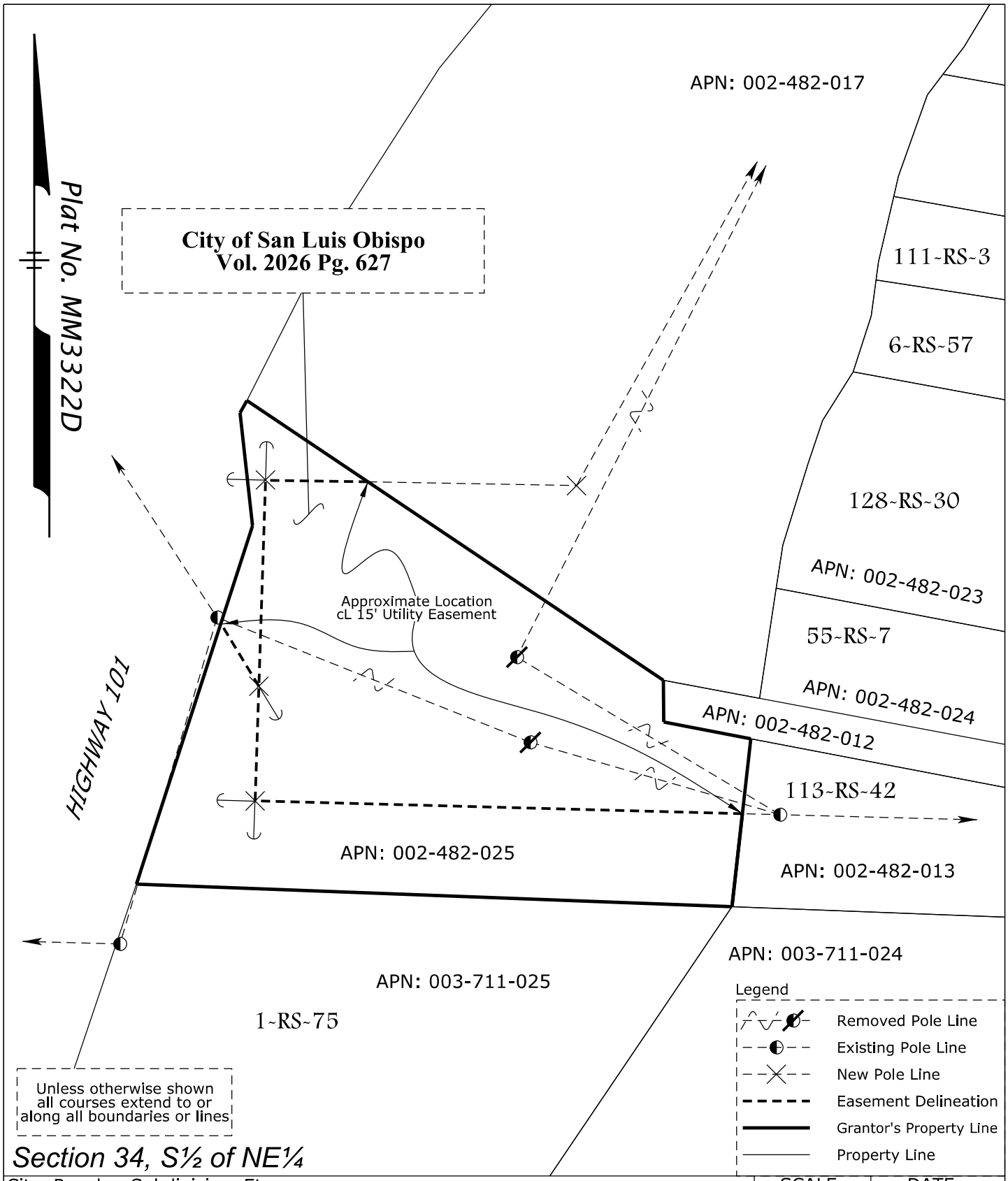
- By granting this easement to PG&E, the easement area may be used to serve additional customers in the area and **may be used to install additional utility facilities.** Installation of any proposed facilities outside of this easement area will require an additional easement.

- Removal and/or pruning of trees or other vegetation on your property may be necessary for the installation of PG&E facilities. You have the option of having PG&E's contractors perform this work on your property, if available, or granting permission to PG&E's applicant or the applicant's contractor to perform this work. Additionally, in order to comply with California fire laws and safety orders, PG&E or its contractors will periodically perform vegetation maintenance activities on your property as provided for in this grant of easement in order to maintain proper clearances from energized electric lines or other facilities.

- The description of the easement location where PG&E utility facilities are to be installed across your property must be satisfactory to you.

- The California Public Utilities Commission has authorized PG&E's applicant to perform the installation of certain utility facilities for utility service. In addition to granting this easement to PG&E, your consent may be requested by the applicant, or applicant's contractor, to work on your property. Upon completion of the applicant's installation, the utility facilities will be inspected by PG&E. When the facility installation is determined to be acceptable the facilities will be conveyed to PG&E by its applicant.

By signing the Grant of Easement, you are acknowledging that you have read this disclosure and understand that you are voluntarily granting the easement to PG&E. Please return the signed and notarized Grant of Easement with this Disclosure Statement attached to PG&E. The duplicate copy of the Grant of Easement and this Disclosure Statement is for your records.



Section 34, S½ of NE¼

City, Rancho, Subdivision, Etc.	SCALE	DATE
San Luis Obispo	1"= 70'	4/16/24

SECTION	TOWNSHIP	RANGE	MERIDIAN	COUNTY: San Luis Obispo	APPLICANT: City of SLO
34	30S	12E	MDM	F.B.: N/A DR.BY: m22f	CH.BY: l3b0

LD# 2230-12-10086	PG&E	Los Padres DIVISION	35455902 AUTHORIZ	35455902 DRAWING NO.

Attach to LD: 2230-12-10086

Area, Region or Location: 4

Land Service Office: San Luis Obispo

Line of Business: Electric Distribution (43)

Business Doc Type: Easements

MTRSQ: 22.30.12.34.43, 22.30.12.34.42,

FERC License Number:

PG&E Drawing Number: 35455902

Plat No.: MM3322D

LD of Affected Documents:

LD of Cross Referenced Documents:

Type of interest: Electric Pole Line Easements (3), Utility Easement (86)

SBE Parcel:

% Being Quitclaimed:

Order or PM: 35455902

JCN:

County: San Luis Obispo

Utility Notice Number:

851 Approval Application No: ;Decision:

Prepared By: m22f

Checked By: l3b0

Approved By:

Revised by:

PUBLIC WORKS DEPARTMENT
919 Palm Street, San Luis Obispo, CA 93401

MID-HIGUERA BYPASS, SPECIFICATION NO. 2090649
SITE OVERVIEW

Department: Administration
Cost Center: 1010
For Agenda of: 7/16/2024
Placement: Consent
Estimated Time: N/A

FROM: Greg Hermann, Deputy City Manager
Prepared By: Nestor Veloz-Passalacqua, Diversity, Equity, and Inclusion Manager

SUBJECT: CONSIDERATION OF THE 2024-25 HUMAN SERVICES GRANT NEW FUNDING RECOMMENDATIONS

RECOMMENDATION

1. As recommended by the Human Relations Commission, approve the 2024-25 Human Services Grant funding allocations in the amount of $150,000 based on City Council's direction provided May 21, 2024; and
2. Authorize the City Manager to execute agreements with each grant recipient.

POLICY CONTEXT

The Human Relations Commission's (HRC) purpose is to advise and make recommendations to City Council and the City Manager which promote and advance inclusion, mutual understanding, respect, and equitable treatment to all members of the SLO City Community. The Human Relations Commission's recommendations to City Council for the Human Services Grant (HSG) program achieves this purpose by providing financial support to non-profit organizations that promote the economic and social wellbeing of the residents of San Luis Obispo.

DISCUSSION

Background

The City's Human Services Grants (HSG), formerly known as Grants-in-Aid, was originally discussed, and approved by City Council on November 14, 1973, through a study session providing authority and responsibility to HRC for funding and contract recommendations for Council consideration. The HSG program is fully funded by the City's General Fund. The HSG had a Council approved change of name in 2022 to better reflect the objectives of the grant program. Grants are made to local organizations or agencies based in neighboring communities whose services contribute to the economic and social wellbeing of the residents of San Luis Obispo through identified priorities. The Human Relations Commission (HRC) advises the City Council on those funding priorities and grant recommendations.

Funding Priorities
On November 16, 2021, the Council adopted the following as the primary funding priority for the HSG:

- ***Homelessness prevention, including affordable and alternative housing, support services and transitional housing.***

To allow maximum flexibility for funding recommendations dependent upon the received applications, the following priorities were also approved but were not ranked:

- ***Hunger and malnutrition prevention.***
- ***Supportive physical and mental health services for those in need.***
- ***Services for seniors, veterans and/or people with disabilities in need.***
- ***Supportive, developmental, and care services for children and youth in need.***
- ***Services encouraging diversity, equity, and inclusivity in marginalized.***

HSG Application Process
In January 22, 2024, the HRC formally launched its annual HSG process by advertising the availability of grant funds and information regarding the upcoming HSG timeline to the general public, past applicants and agencies and groups from underserved and underrepresented communities through the Office of Diversity, Equity, and Inclusion (DEI). HSG applications were due on March 1, 2024. The City received grant applications from 37 agencies requesting funding for programs totaling $495,243. Attachment A includes a complete list of the applications, including a summary of each project submitted to the City for HSG funding. The HRC's Grant Review Subcommittee reviewed the applications and provided funding recommendations to the full HRC.

HRC Review Process
On March 12 and 19, 2024, the HSG Grant Review Subcommittee met to review grant applications and make preliminary funding recommendations. The subcommittee members considered the funding priorities set by Council, the location of the target population to be served, and the incurred expenses proposed to be offset by HSG dollars to guide their funding recommendations.

The HRC held a regular meeting April 3, 2024, which included a noticed public hearing about the HSG program and its final funding recommendations. During this process, the Grant Review Subcommittee provided its preliminary recommendations to the entire HRC, which was followed by public comment and deliberation. Upon completion of the HRC deliberation, the entire commission voted in providing a recommendation to City Council.

The 2024-25 Human Services Grant final recommendations were presented to the City Council at the May 21, 2024 meeting. Council referred the grant funding recommendations back to HRC with direction to first fund all qualified applications that meet the homelessness prevention primary funding priority, and then, after qualified homelessness prevention applications are funded, the Commission should consider applications for the additional priorities.

On May 29, 2024, the HRC held a special meeting to review the grant applications and provide revised funding recommendations considering the City Council's direction and guidance. Attachment B includes a complete list of the applications, a summary of each project, and HRC's new final funding recommendations.

	Organization	Project or Program	Reqd. Amount	Previous HRC Grant Review Subcommittee Recommended Amounts	Previous HRC Recommended Amounts	New Final HRC Recommended Amounts
1	**5 Cities Homeless Coalition**	Homeless Prevention & Rapid Re-Housing	$20,000	**$10,000**	**$10,000**	**$10,000**
2	**Big Brothers Big Sisters of San Luis Obispo County**	Mentoring to Help Disadvantaged Youth Meet their Full Potential	$10,000	$0	$0	$0
3	**CASA of San Luis Obispo County, Inc.**	General SLO CASA Program Support	$20,000	**$10,000**	**$10,000**	**$10,000**
4	**City Farm**	2025 Youth Empowerment Program	$15,000	**$6,974**	**$8,948**	**$0**
5	**Community Action Partnership of SLO County**	Homeless Prevention/Stable Housing Services	$10,000	**$10,000**	$0	**$10,000**
6	**Community Action Partnership of SLO County**	Families in Transition (FIT)	$10,000	$0	$0	**$5,000**
7	**Community Counseling Center**	Sharing the Therapeutic Space: Professional and Affordable Psychotherapy Options for Underprivileged Populations in the City of San Luis Obispo	$5,000	$0	$0	$0

8	**Corazon Latino**	Support Groups - Corazon Latino Central Coast	$20,000	$0	$0	$0
9	**Diversity Coalition**	BIPOC Board Leadership Training Program	$10,000	$0	$0	$0
10	**Family Matters Consulting**	Circle of Security - Prevention Program	$15,000	$0	$0	$0
11	**Food Bank of SLO County**	No-Cook Bags for SLO County Residents Experiencing Homelessness	$20,000.00	$0	$0	$0
12	**Hospice of SLO County**	Caregiver Support and Grief Counseling	$20,000	$0	$0	$0
13	**Housing Authority San Luis Obispo**	Housing Stability with Supportive Housing Program	$20,000	**$10,000**	**$10,000**	**$10,000**
14	**Independent Living Resource Center**	Disability Rights and Cultural Awareness in San Luis Obispo	$8,691	$0	$0	$0
15	**Jack's Helping Hand**	Assistance for Single Mothers of Children with Special Needs in the City of San Luis Obispo	$10,000	**$0**	**$5,000**	**$0**
16	**Jewish Family Services of San Luis Obispo**	Homeless Support Services	$7,300	**$7,300**	**$7,300**	**$7,300**
17	**Literacy for Life**	The Literacy Program	$10,000	**$10,000**	**$10,000**	**$10,000**

18	**Long Term Care Ombudsman Services of San Luis Obispo County**	Ombudsman Services	$5,000	**$5,000**	**$5,000**	**$5,000**
19	**Lumina Alliance**	Emergency Shelter Program for Sexual Assault and Intimate Partner Violence Survivors	$20,000	**$0**	**$10,000**	**$20,000**
20	**One Cool Earth**	Garden Education Program	$5,000	$0	$0	$0
21	**PathPoint**	Independent Living Technology for People with I/DD	$15,000	$0	$0	$0
22	**People's Self-Help Housing Corporation**	SLO Supportive Housing Program for Low-Income Households	$20,000	$0	$0	$0
23	**Pregnancy and Parenting Support of SLO County**	Nurture SLO Families	$15,000	$0	$0	$0
24	**RACE MATTERS SLO**	Shop Talk	$10,000	$0	$0	$0
25	**Restorative Partners, Inc.**	Opportunity to Fund	$10,000	**$6,974**	**$0**	**$10,000**
26	**San Luis Obispo Child Development Resource Center**	Child and Family Play Therapy Program	$10,000	$0	$0	$0

27	**San Luis Obispo Committee for Education on Alcoholism, dba Middle House**	Alumni Housing	$6,250	**$6,250**	**$6,250**	**$6,250**
28	**San Luis Obispo Committee for Education on Alcoholism, dba Middle House**	Homeless Prevention	$5,600	**$5,600**	**$5,600**	**$5,600**
29	**San Luis Obispo County Bicycle Coalition, dba Bike SLO County**	Cycling Without Age	$5,500	$0	$0	$0
30	**San Luis Obispo Legal Assistance Foundation**	Senior Legal Services	$20,000	$0	$0	$0
31	**Senior Nutrition Program**	Meals that Connect	$15,000	**$7,500**	**$7,500**	**$7,500**
32	**Shower the People**	Shower the People	$20,000	**$20,000**	**$20,000**	**$20,000**
33	**SLO County UndocuSupport**	Direct Housing Aid for Immigrant Families	$7,442	**$7,442**	**$7,442**	**$7,442**
34	**SLO Noor Foundation**	Whole Community Care Project	$20,000	$0	$0	$0
35	**Smart Share Housing Solutions**	Community Housing Provisions/Homeless Prevention	$14,460	**$5,960**	**$5,960**	**$5,908**
36	**Transitions Mental Health Association**	Growing Grounds Downtown	$20,000	**$10,000**	**$10,000**	**$0**
37	**United Way of San Luis Obispo**	Community - Driven Initiative in San Luis Obispo: Preventing Poverty and Building a Sustainable Community	$20,000	**$11,000**	**$11,000**	**$0**
			$495,243	**$150,000**	**$150,000**	**$150,000**

Grant Contracts
Upon Council approval of HSG funding recommendations, the City will enter into a contract with each organization that has been awarded grant funding. The HRC and the City staff will review grant project reports throughout the year. Organizations awarded grant funding are required to provide a mid-year and year-end report describing administrative functions, metrics and outcomes, and use of funds related to the application for each grant program. Reports are reviewed by staff and the HRC for completeness and compliance.

Public Engagement
The public, and more specifically non-profit service organizations, were engaged throughout the HSG award process. Non-profit service organizations received communication of available funding, an informational session provided in English and Spanish available in the Office of DEI website, technical assistance during the application period, a detailed grant web application outlining funding criteria, and how to access support from staff. This item was originally presented on the consent agenda for the May 21, 2024, City Council meeting and followed all required postings and notifications.

An email notification was provided to all HSG applicants inviting them to attend the HRC special meeting on May 29, 2024.

This item is on the consent agenda for the July 16, 2024, City Council meeting and followed all required postings and notifications. The public can also submit comments on this item at or before the meeting.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act does not apply to the recommended action in this report, because the action does not constitute a “Project” under CEQA Guidelines Sec. 15378.

FISCAL IMPACT

Budgeted: Yes Budget Year: 2024-25
Funding Identified: Yes

Fiscal Analysis:

Funding Sources	Total Budget Available	Current Funding Request	Remaining Balance	Annual Ongoing Cost
General Fund	$150,000	$150,000	$	$
State				
Federal				
Fees				
Other:				
Total	**$150,000**	**$150,000**	**$0**	**$**

As adopted in the 2023-2025 Financial Plan and FY 2024-25 Supplemental Budget, the allocated 2024-2025 budget for the HSG program was $150,000. HSG projects will be implemented for a period of one year starting at the beginning of the 2024-2025 Fiscal Year.

ALTERNATIVES

1. ***The Council may modify the proposed grant funding amounts.*** The Council should provide direction on the modifications desired and adopt the revised allocations.
2. ***The Council may return the matter back to the HRC again for further consideration of the funding recommendations*****.** In this case, it is recommended that Council provide additional direction to the HRC regarding its consideration of the funding recommendations.

ATTACHMENTS

A - 2024-25 Human Services Grant Applications, Subcommittee Preliminary Funding, and Previous HRC Funding Recommendations.
B - 2024-25 Human Services Grant New Final Funding Recommendations
C - 05-29-2024 Special HRC Meeting Minutes

2024-25 Human Services Grant Applications, Subcommittee Preliminary Funding, and Previous HRC Funding Recommendations.

	Organization	Project or Program	Description of Project/Program	Requested Amount	Previous HRC Grant Review Subcommittee Recommended Amounts	Previous HRC Recommended Amounts
1	**5 Cities Homeless Coalition**	Homeless Prevention & Rapid Re-Housing	This program provides wrap-around services including case management and direct financial assistance with a special emphasis on the housing support program. It will ensure services are low-barrier and accessible and assist them to resolve their housing crisis before focusing on other non-housing related services. The use of the funds will be for rental assistance and relocation stabilization (staff & application fees and deposit).	$20,000	**$10,000**	**$10,000**
2	**Big Brothers Big Sisters of San Luis Obispo County**	Mentoring to Help Disadvantaged Youth Meet their Full Potential	This program provides professional caseworkers to pair and sustain mentoring relationships for disadvantaged youth residing SLO. Caseworkers (bilingual) will screen, train, pair with a mentor, support, assess, and provide referrals to address physical, mental health, and developmental service needs, including connections to hunger prevention programs. The funds will be used for local government/schools and for staff salaries.	$10,000	$0	$0
3	**CASA of San Luis Obispo County, Inc.**	General SLO CASA Program Support	This program advocates for the best interests of abused and neglected children within the court system. CASA recruits, trains, and supervises volunteers who advocate for this vulnerable population with the goal of ensuring that each and every child grows up in a safe, nurturing, and permanent home. The funds will be used for rent and utilities.	$20,000	**$10,000**	**$10,000**
4	**City Farm**	2025 Youth Empowerment Program	This program supports the Summer of 2025, City Farm SLO's Youth Empowerment Program (YEP) will provide 1,500 individual instruction hours to 35 teens. 5,000 pounds of produce will be delivered to the SLO Food Bank as a result of programming, impacting thousands of residents. The funds will be used for two facilitators, a farmer, food and beverage, tools and materials, and liability insurance.	$15,000	**$6,974**	**$8,948**

5	**Community Action Partnership of SLO County**	Homeless Prevention/Stable Housing Services	This program will provide emergency financial assistance to residents in households in SLO that are at risk of being evicted and need help with a rental payment, or who need support securing housing with first month's rent and/or a security deposit. The funds will be used for financial assistance payments and "indirect expenses @8%".	$10,000	**$10,000**	$0
6	**Community Action Partnership of SLO County**	Families in Transition (FIT)	This program is a long-standing program and partnership with SLCUSD focused on supporting homeless students and their families. This project is intended to support 10 families with children (five homeless, five at risk for eviction) enrolled in SLCUSD that reside in the city. The funds will be used for housing-related case management services (described above) and direct financial support to secure and maintain permanent housing for these youth and their families.	$10,000	$0	$0
7	**Community Counseling Center**	Sharing the Therapeutic Space: Professional and Affordable Psychotherapy Options for Underprivileged Populations in the City of San Luis Obispo	This program supports the small collective of volunteer therapists and coordinators of a flourishing organization that serves thousands of low-income residents, students, and unhoused individuals and provides training opportunities to current and future mental health professionals. The funds will be used towards 3 salaries, telehealth annual fee, rent/mortgage, and operating expenses.	$5,000	$0	$0
8	**Corazon Latino**	Support Groups - Corazon Latino Central Coast	This program will have reoccurring focus groups where marginalized communities will have access to multiple agencies providing information and support regarding homeless prevention, hunger and malnutrition prevention, language services, and physical/mental health services. It also aims to provide childcare, food, and ongoing rotation of partner agencies at these support groups. The funds will be used towards 5 salaries and food & beverage.	$20,000	$0	$0
9	**Diversity Coalition**	BIPOC Board Leadership Training Program	This project supports the ongoing efforts of the BIPOC Board Leadership program that conducts 2 trainings per year with 12-15 diverse BIPOC participants, that is followed by board placement assistance for BIPOC individuals with nonprofit boards. It also supports their partnership with	$10,000	$0	$0

			Spokes in providing DEI trainings to agencies aiming to diversify their boards. The funds will be used for staff salary, training materials, and meals for cohort.			
10	**Family Matters Consulting**	Circle of Security - Prevention Program	This program aims to address the systematic injustices marginalized children experience in the education system. This is done by addressing the challenges by implementing evidence-based interventions with Circle of Security focused on promoting equity and inclusion in early childhood education. The funds will be used for two facilitators and one program coordinator who will provide accessible support groups.	$15,000	$0	$0
11	**Food Bank of SLO County**	No-Cook Bags for SLO County Residents Experiencing Homelessness	This program will provide continued funding for our No-Cook Bags program, bags of portable foods designed for homeless residents who do not have access to a kitchen and cannot benefit from typical Food Bank distribution items. This program has proven to be very successful in the City of San Luis Obispo, with approximately 1,500 No-Cook Bags distributed each month to homeless residents of the city to ensure access to nutritious meals. The funds will be used to purchase food for program.	$20,000.00	$0	$0
12	**Hospice of SLO County**	Caregiver Support and Grief Counseling	This program is meant to offer a variety of services to help keep home caregivers healthy and well as they care for a loved one with a life-limiting diagnosis. The funds for this program will be to support the personnel costs associated with sustaining the Caregiver Support and Grief Counseling program so that they can meet the community's ongoing need for in-home caregiver support and grief counseling services.	$20,000	$0	$0
13	**Housing Authority San Luis Obispo**	Housing Stability with Supportive Housing Program	This program's objectives include housing stability, transitioning from homelessness and rapid-rehoused and evection prevention. The funds will be focused on 4 areas including transportation, hunger, transitional housing, and incentives and this program intends to serve 1,099 residents in the city.	$20,000	**$10,000**	**$10,000**
14	**Independent Living Resource Center**	Disability Rights and Cultural Awareness in	The program will focus on providing a series of workshops to community members in two key areas Workshop Focus #1: Advocacy Skill Development and Workshop Focus #2: Disability Inclusion in the Workplace, followed by a Disability Culture Night.	$8,691	$0	$0

		San Luis Obispo	The funds will be for workshop consultant, travel, lodging, space, supplies, support, and access accommodations.			
15	**Jack's Helping Hand**	Assistance for Single Mothers of Children with Special Needs in the City of San Luis Obispo	This program is designed to empower and enable families, professionals, and the broader community to meet the unique physical, mental, and medical needs of special children and young adults under the age of 21 within SLO County. There are currently 35 children receiving direct assisted, 54% of whom are being cared for by a single or divorced parent. The funds will be used for food gift cards, lodging for out-of-town medical appointments, transportation/fuel expenses, medical equipment, medical bills and emergency needs.	$10,000	**$0**	**$5,000**
16	**Jewish Family Services of San Luis Obispo**	Homeless Support Services	This program will provide necessary support services to the homeless population by offering services such as: DMV registration, vehicle insurance, car repair, and gas cards; additional needed assistance for items such as: storage, food, impound fees, propane, rent and deposits, medical and legal expenses. The grant will be used for operating (90% direct services) and administrative (10%) costs.	$7,300	**$7,300**	**$7,300**
17	**Literacy for Life**	The Literacy Program	This program's mission is to recruit and train community members to become volunteer tutors to work one-on-one with learners and guide them to set and meet their individual literacy learning goal (s). The goals can be as vary by the needs of the student. The funds will be used for general operating expenses.	$10,000	**$10,000**	**$10,000**
18	**Long Term Care Ombudsman Services of San Luis Obispo County**	Ombudsman Services	This program has services for people who live in long term care facilities (skilled nursing or residential care facilities for the elderly) or who are seeking information about facilities. Services include resident advocacy, facility monitoring visits, complaint investigations and resolution, information and assistance, and systemic advocacy. The funds will be used for staff salaries.	$5,000	**$5,000**	**$5,000**
19	**Lumina Alliance**	Emergency Shelter Program for Sexual Assault and Intimate	This program is the only agency on the Central Coast that operates a rape crisis center and has shelters that are consistently at capacity and receive an ever-increasing number of requests for services	$20,000	**$0**	**$10,000**

		Partner Violence Survivors	and calls to the 24/7 Crisis & Information Line. The funds will be used for utilities, equipment, repair, and food to support general operating costs, as well as any necessary repairs, for our shelters that arise.			
20	**One Cool Earth**	Garden Education Program	The project will support our programming at four (4) SLO school gardens, providing year-long nutrition learning for 1669 students. A Garden Educator is provided to school campuses who teach a series of 108 seasonally aligned, hands-on, and standard-based lessons per school per year. The Garden Educator will also hold two (2) community garden workdays and one family cooking night per school. The funds will be used for educator wages, garden supplies, and cooking supplies.	$5,000	$0	$0
21	**PathPoint**	Independent Living Technology for People with I/DD	This program will provide independent living technology that will enable people with intellectual disabilities and developmental disabilities served in the Independent Living Services (ILS) and Coordinated Family Supports (CFS) to learn the skills necessary to retain stable housing, live productive lives, and achieve maximum independence. The funds will be used for smart home hubs, automated medication dispensers, tablets, visual alert systems, livescribe pens, smart cooking devices, smart televisions, smartwatches, and electric lift desks.	$15,000	$0	$0
22	**People's Self-Help Housing Corporation**	SLO Supportive Housing Program for Low-Income Households	This program will provide an average of 16 hours of service every week benefitting PSHH's San Luis Obispo residents. New residents receive information about SHP services upon move-in from Residence Managers, who live onsite. Managers also provide additional outreach whenever a resident speaks to them about a particular difficulty with which social workers could assist.	$20,000	$0	$0
23	**Pregnancy and Parenting Support of SLO County**	Nurture SLO Families	This program provides local families with emotional support, practical assistance, and connections to community resources from pregnancy through early childhood. They offer free psychotherapy with trained clinicians through partnership with Community Counseling Center. The funds will be used for 3 staff positions, rent, program supplies and staff training.	$15,000	$0	$0

24	**RACE MATTERS SLO**	Shop Talk	This project seeks funds to support 12 monthly programs centered on Black wellness and healing, as well as wellness and healing for other communities of color, through our program, “Shop Talk,” which advances health equity and wellbeing through clinician-led discussion groups. The funds will be used for all costs (staff, honoraria, facility rental, admin, cleaning, marking, food, and supplies.	$10,000	$0	$0
25	**Restorative Partners, Inc.**	Opportunity to Fund	These programs designed to assist individuals facing financial barriers, mental health issues, and substance abuse challenges as they reintegrate into our community. This year, they expect to assist 80 individuals as they work to overcome homelessness, unemployment, and stigma. The funds will be used for client's emergency needs.	$10,000	**$6,974**	**$0**
26	**San Luis Obispo Child Development Resource Center**	Child and Family Play Therapy Program	This program will fund the therapy team in providing additional counseling and rehabilitation services. Grant funds will expand services, accommodating 20 additional therapy clients annually. The funds will be used to provide 325 therapy hours and 8 hours of professional development, focusing on cultural competencies.	$10,000	$0	$0
27	**San Luis Obispo Committee for Education on Alcoholism, dba Middle House**	Alumni Housing	This project seeks to help clients of Middle House to relocate to independent living after a satisfactory stay at Middle House, which is difficult to find housing due the extreme expense of pre-rental requirements (i.e.., security deposit, first & last months’ rent, etc.).	$6,250	**$6,250**	**$6,250**
28	**San Luis Obispo Committee for Education on Alcoholism, dba Middle House**	Homeless Prevention	This project seeks to help clients of Middle House with the opportunity to continue and improve their path of recovery and wellness in a safe, healthy, and appropriate environment.	$5,600	**$5,600**	**$5,600**
29	**San Luis Obispo County Bicycle Coalition, dba Bike SLO County**	Cycling Without Age	The new Bike SLO County program, Cycling Without Age, addresses social isolation for seniors by offering bicycle rides for those who can no longer cycle. The funds will be used for materials, marketing, insurance, and background checks to increase volunteer efforts.	$5,500	$0	$0

30	**San Luis Obispo Legal Assistance Foundation**	Senior Legal Services	This program provides assistance to approximately 2,000 SLO County residents in need of legal assistance or referrals to other resources, 700+ being seniors. SLSP's resulting caseload of 250+ clients each year includes civil matters such as homelessness prevention, elder abuse, consumer finance, government benefits appeals, and preparing for incapacity/end-of-life. The funds will be used for all operating costs.	$20,000	$0	$0
31	**Senior Nutrition Program**	Meals that Connect	This program strives to meet the growing needs to feed the senior population, especially those who are at or below the poverty level. The funds will be used to cover food costs, kitchen staff labor, supplies, rent, transportation cost for our San Luis Obispo dining site at the United Church of Christ Congregational.	$15,000	**$7,500**	**$7,500**
32	**Shower the People**	Shower the People	The program will continue to provide access to a free shower to the homeless at our current four (4) sites in San Luis Obispo. It provides clients with a shower as well as a new pair of underwear, socks, t-shirts, a comb, and hand sanitizer.	$20,000	**$20,000**	**$20,000**
33	**SLO County UndocuSupport**	Direct Housing Aid for Immigrant Families	This program is intended to provide aid to local undocumented focused community-based-organizations that directly interface with the undocumented population to provide direct housing aid in the form of rental assistance, security deposit, and/or utility payment to avoid shut-off. The funds will be used for grants, staff, and administrative fees.	$7,442	**$7,442**	**$7,442**
34	**SLO Noor Foundation**	Whole Community Care Project	This program will open a solely owned and operated mobile health clinic in addition to expanding capacity at its existing two clinic sites in San Luis Obispo. It will provide new and existing clinical programs, a new care coordination program, and a new community outreach campaign to better reach and serve "hard-to-reach" populations in the City of San Luis Obispo. The funds will be used for staffing and program services.	$20,000	$0	$0
35	**Smart Share Housing Solutions**	Community Housing Provisions/Homeless Prevention	The program is a two-pronged approach, providing immediate direct housing to City residents and planning for broader longer term housing support in upcoming years through the Waterman Village Residency Plan. The funds will be used for research,	$14,460	**$5,960**	**$5,960**

			training, stakeholder input, draft review and final draft.			
36	**Transitions Mental Health Association**	Growing Grounds Downtown	This program is one of three Growing Grounds social enterprises that provides vocational training and paid employment to 20 TMHA clients with the hopes of adding 4 clients, with a focus on individuals who are at risk of homelessness. The funds will be used for staff salaries, client wages, PR taxes, credit card/service charges, insurance, and telecommunication.	$20,000	**$10,000**	**$10,000**
37	**United Way of San Luis Obispo**	Community - Driven Initiative in San Luis Obispo: Preventing Poverty and Building a Sustainable Community	This program focuses on two primary areas of impact that include community collaboration and poverty prevention by providing tax resources, a resource fair, a financial literacy program, and by increasing volunteer engagement. The funds will be used for staff salaries, administrative costs, advertising, "miscellaneous," and platform subscriptions.	$20,000	**$11,000**	**$11,000**
			TOTAL	**$495,243**	**$150,000**	**$150,000**

2024-25 Human Services Grant New Final Funding Recommendations

	Organization	Project or Program	Description of Project/Program	Requested Amount	New Final HRC Recommended Amounts
1	**5 Cities Homeless Coalition**	Homeless Prevention & Rapid Re-Housing	This program provides wrap-around services including case management and direct financial assistance with a special emphasis on the housing support program. It will ensure services are low-barrier and accessible and assist them to resolve their housing crisis before focusing on other non-housing related services. The use of the funds will be for rental assistance and relocation stabilization (staff & application fees and deposit).	$20,000	**$10,000**
2	**Big Brothers Big Sisters of San Luis Obispo County**	Mentoring to Help Disadvantaged Youth Meet their Full Potential	This program provides professional caseworkers to pair and sustain mentoring relationships for disadvantaged youth residing SLO. Caseworkers (bilingual) will screen, train, pair with a mentor, support, assess, and provide referrals to address physical, mental health, and developmental service needs, including connections to hunger prevention programs. The funds will be used for local government/schools and for staff salaries.	$10,000	$0
3	**CASA of San Luis Obispo County, Inc.**	General SLO CASA Program Support	This program advocates for the best interests of abused and neglected children within the court system. CASA recruits, trains, and supervises volunteers who advocate for this vulnerable population with the goal of ensuring that each and every child grows up in a safe, nurturing, and permanent home. The funds will be used for rent and utilities.	$20,000	**$10,000**
4	**City Farm**	2025 Youth Empowerment Program	This program supports the Summer of 2025, City Farm SLO's Youth Empowerment Program (YEP) will provide 1,500 individual instruction hours to 35 teens. 5,000 pounds of produce will be delivered to the SLO Food Bank as a result of programming, impacting thousands of residents. The funds will be used for two facilitators, a farmer, food and beverage, tools and materials, and liability insurance.	$15,000	$0
5	**Community Action Partnership of SLO County**	Homeless Prevention/Stable Housing Services	This program will provide emergency financial assistance to residents in households in SLO that are at risk of being evicted and need help with a rental payment, or who need support securing housing with first month's rent and/or a security deposit. The funds will be used for financial assistance payments and "indirect expenses @8%".	$10,000	**$10,000**
6	**Community Action Partnership of SLO County**	Families in Transition (FIT)	This program is a long-standing program and partnership with SLCUSD focused on supporting homeless students and their families. This project is intended to support 10 families with children (five homeless, five at risk for eviction) enrolled in SLCUSD that	$10,000	**$5,000**

			reside in the city. The funds will be used for housing-related case management services (described above) and direct financial support to secure and maintain permanent housing for these youth and their families.		
7	**Community Counseling Center**	Sharing the Therapeutic Space: Professional and Affordable Psychotherapy Options for Underprivileged Populations in the City of San Luis Obispo	This program supports the small collective of volunteer therapists and coordinators of a flourishing organization that serves thousands of low-income residents, students, and unhoused individuals and provides training opportunities to current and future mental health professionals. The funds will be used towards 3 salaries, telehealth annual fee, rent/mortgage, and operating expenses.	$5,000	$0
8	**Corazon Latino**	Support Groups - Corazon Latino Central Coast	This program will have reoccurring focus groups where marginalized communities will have access to multiple agencies providing information and support regarding homeless prevention, hunger and malnutrition prevention, language services, and physical/mental health services. It also aims to provide childcare, food, and ongoing rotation of partner agencies at these support groups. The funds will be used towards 5 salaries and food & beverage.	$20,000	$0
9	**Diversity Coalition**	BIPOC Board Leadership Training Program	This project supports the ongoing efforts of the BIPOC Board Leadership program that conducts 2 trainings per year with 12-15 diverse BIPOC participants, that is followed by board placement assistance for BIPOC individuals with nonprofit boards. It also supports their partnership with Spokes in providing DEI trainings to agencies aiming to diversify their boards. The funds will be used for staff salary, training materials, and meals for cohort.	$10,000	$0
10	**Family Matters Consulting**	Circle of Security - Prevention Program	This program aims to address the systematic injustices marginalized children experience in the education system. This is done by addressing the challenges by implementing evidence-based interventions with Circle of Security focused on promoting equity and inclusion in early childhood education. The funds will be used for two facilitators and one program coordinator who will provide accessible support groups.	$15,000	$0
11	**Food Bank of SLO County**	No-Cook Bags for SLO County Residents Experiencing Homelessness	This program will provide continued funding for our No-Cook Bags program, bags of portable foods designed for homeless residents who do not have access to a kitchen and cannot benefit from typical Food Bank distribution items. This program has proven to be very successful in the City of San Luis Obispo, with approximately 1,500 No-Cook Bags distributed each month to homeless residents of the	$20,000.00	$0

			city to ensure access to nutritious meals. The funds will be used to purchase food for program.		
12	**Hospice of SLO County**	Caregiver Support and Grief Counseling	This program is meant to offer a variety of services to help keep home caregivers healthy and well as they care for a loved one with a life-limiting diagnosis. The funds for this program will be to support the personnel costs associated with sustaining the Caregiver Support and Grief Counseling program so that they can meet the community's ongoing need for in-home caregiver support and grief counseling services.	$20,000	$0
13	**Housing Authority San Luis Obispo**	Housing Stability with Supportive Housing Program	This program's objectives include housing stability, transitioning from homelessness and rapid-rehoused and evection prevention. The funds will be focused on 4 areas including transportation, hunger, transitional housing, and incentives and this program intends to serve 1,099 residents in the city.	$20,000	**$10,000**
14	**Independent Living Resource Center**	Disability Rights and Cultural Awareness in San Luis Obispo	The program will focus on providing a series of workshops to community members in two key areas Workshop Focus #1: Advocacy Skill Development and Workshop Focus #2: Disability Inclusion in the Workplace, followed by a Disability Culture Night. The funds will be for workshop consultant, travel, lodging, space, supplies, support, and access accommodations.	$8,691	$0
15	**Jack's Helping Hand**	Assistance for Single Mothers of Children with Special Needs in the City of San Luis Obispo	This program is designed to empower and enable families, professionals, and the broader community to meet the unique physical, mental, and medical needs of special children and young adults under the age of 21 within SLO County. There are currently 35 children receiving direct assisted, 54% of whom are being cared for by a single or divorced parent. The funds will be used for food gift cards, lodging for out-of-town medical appointments, transportation/fuel expenses, medical equipment, medical bills and emergency needs.	$10,000	$0
16	**Jewish Family Services of San Luis Obispo**	Homeless Support Services	This program will provide necessary support services to the homeless population by offering services such as: DMV registration, vehicle insurance, car repair, and gas cards; additional needed assistance for items such as: storage, food, impound fees, propane, rent and deposits, medical and legal expenses. The grant will be used for operating (90% direct services) and administrative (10%) costs.	$7,300	**$7,300**
17	**Literacy for Life**	The Literacy Program	This program's mission is to recruit and train community members to become volunteer tutors to work one-on-one with learners and guide them to set and meet their individual literacy learning goal (s). The goals can be as vary by the needs of the student. The funds will be used for general operating expenses.	$10,000	**$10,000**

18	**Long Term Care Ombudsman Services of San Luis Obispo County**	Ombudsman Services	This program has services for people who live in long term care facilities (skilled nursing or residential care facilities for the elderly) or who are seeking information about facilities. Services include resident advocacy, facility monitoring visits, complaint investigations and resolution, information and assistance, and systemic advocacy. The funds will be used for staff salaries.	$5,000	**$5,000**
19	**Lumina Alliance**	Emergency Shelter Program for Sexual Assault and Intimate Partner Violence Survivors	This program is the only agency on the Central Coast that operates a rape crisis center and has shelters that are consistently at capacity and receive an ever-increasing number of requests for services and calls to the 24/7 Crisis & Information Line. The funds will be used for utilities, equipment, repair, and food to support general operating costs, as well as any necessary repairs, for our shelters that arise.	$20,000	**$20,000**
20	**One Cool Earth**	Garden Education Program	The project will support our programming at four (4) SLO school gardens, providing year-long nutrition learning for 1669 students. A Garden Educator is provided to school campuses who teach a series of 108 seasonally aligned, hands-on, and standard-based lessons per school per year. The Garden Educator will also hold two (2) community garden workdays and one family cooking night per school. The funds will be used for educator wages, garden supplies, and cooking supplies.	$5,000	$0
21	**PathPoint**	Independent Living Technology for People with I/DD	This program will provide independent living technology that will enable people with intellectual disabilities and developmental disabilities served in the Independent Living Services (ILS) and Coordinated Family Supports (CFS) to learn the skills necessary to retain stable housing, live productive lives, and achieve maximum independence. The funds will be used for smart home hubs, automated medication dispensers, tablets, visual alert systems, livescribe pens, smart cooking devices, smart televisions, smartwatches, and electric lift desks.	$15,000	$0
22	**People's Self-Help Housing Corporation**	SLO Supportive Housing Program for Low-Income Households	This program will provide an average of 16 hours of service every week benefitting PSHH's San Luis Obispo residents. New residents receive information about SHP services upon move-in from Residence Managers, who live onsite. Managers also provide additional outreach whenever a resident speaks to them about a particular difficulty with which social workers could assist.	$20,000	$0
23	**Pregnancy and Parenting Support of SLO County**	Nurture SLO Families	This program provides local families with emotional support, practical assistance, and connections to community resources from pregnancy through early childhood. They offer free psychotherapy with trained clinicians through partnership with Community Counseling Center. The funds will be used for 3 staff positions, rent, program supplies and staff training.	$15,000	$0

24	**RACE MATTERS SLO**	Shop Talk	This project seeks funds to support 12 monthly programs centered on Black wellness and healing, as well as wellness and healing for other communities of color, through our program, “Shop Talk,” which advances health equity and wellbeing through clinician-led discussion groups. The funds will be used for all costs (staff, honoraria, facility rental, admin, cleaning, marking, food, and supplies.	$10,000	$0
25	**Restorative Partners, Inc.**	Opportunity to Fund	These programs designed to assist individuals facing financial barriers, mental health issues, and substance abuse challenges as they reintegrate into our community. This year, they expect to assist 80 individuals as they work to overcome homelessness, unemployment, and stigma. The funds will be used for client's emergency needs.	$10,000	**$10,000**
26	**San Luis Obispo Child Development Resource Center**	Child and Family Play Therapy Program	This program will fund the therapy team in providing additional counseling and rehabilitation services. Grant funds will expand services, accommodating 20 additional therapy clients annually. The funds will be used to provide 325 therapy hours and 8 hours of professional development, focusing on cultural competencies.	$10,000	$0
27	**San Luis Obispo Committee for Education on Alcoholism, dba Middle House**	Alumni Housing	This project seeks to help clients of Middle House to relocate to independent living after a satisfactory stay at Middle House, which is difficult to find housing due the extreme expense of pre-rental requirements (i.e.., security deposit, first & last months’ rent, etc.).	$6,250	**$6,250**
28	**San Luis Obispo Committee for Education on Alcoholism, dba Middle House**	Homeless Prevention	This project seeks to help clients of Middle House with the opportunity to continue and improve their path of recovery and wellness in a safe, healthy, and appropriate environment.	$5,600	**$5,600**
29	**San Luis Obispo County Bicycle Coalition, dba Bike SLO County**	Cycling Without Age	The new Bike SLO County program, Cycling Without Age, addresses social isolation for seniors by offering bicycle rides for those who can no longer cycle. The funds will be used for materials, marketing, insurance, and background checks to increase volunteer efforts.	$5,500	$0
30	**San Luis Obispo Legal Assistance Foundation**	Senior Legal Services	This program provides assistance to approximately 2,000 SLO County residents in need of legal assistance or referrals to other resources, 700+ being seniors. SLSP’s resulting caseload of 250+ clients each year includes civil matters such as homelessness prevention, elder abuse, consumer finance, government benefits appeals, and preparing for incapacity/end-of-life. The funds will be used for all operating costs.	$20,000	$0
31	**Senior Nutrition Program**	Meals that Connect	This program strives to meet the growing needs to feed the senior population, especially those who are at or below the poverty level. The funds will be used to cover food costs, kitchen staff labor,	$15,000	**$7,500**

			supplies, rent, transportation cost for our San Luis Obispo dining site at the United Church of Christ Congregational.		
32	**Shower the People**	Shower the People	The program will continue to provide access to a free shower to the homeless at our current four (4) sites in San Luis Obispo. It provides clients with a shower as well as a new pair of underwear, socks, t-shirts, a comb, and hand sanitizer.	$20,000	**$20,000**
33	**SLO County UndocuSupport**	Direct Housing Aid for Immigrant Families	This program is intended to provide aid to local undocumented focused community-based-organizations that directly interface with the undocumented population to provide direct housing aid in the form of rental assistance, security deposit, and/or utility payment to avoid shut-off. The funds will be used for grants, staff, and administrative fees.	$7,442	**$7,442**
34	**SLO Noor Foundation**	Whole Community Care Project	This program will open a solely owned and operated mobile health clinic in addition to expanding capacity at its existing two clinic sites in San Luis Obispo. It will provide new and existing clinical programs, a new care coordination program, and a new community outreach campaign to better reach and serve “hard-to-reach” populations in the City of San Luis Obispo. The funds will be used for staffing and program services.	$20,000	$0
35	**Smart Share Housing Solutions**	Community Housing Provisions/Homeless Prevention	The program is a two-pronged approach, providing immediate direct housing to City residents and planning for broader longer term housing support in upcoming years through the Waterman Village Residency Plan. The funds will be used for research, training, stakeholder input, draft review and final draft.	$14,460	**$5,908**
36	**Transitions Mental Health Association**	Growing Grounds Downtown	This program is one of three Growing Grounds social enterprises that provides vocational training and paid employment to 20 TMHA clients with the hopes of adding 4 clients, with a focus on individuals who are at risk of homelessness. The funds will be used for staff salaries, client wages, PR taxes, credit card/service charges, insurance, and telecommunication.	$20,000	**$0**
37	**United Way of San Luis Obispo**	Community - Driven Initiative in San Luis Obispo: Preventing Poverty and Building a Sustainable Community	This program focuses on two primary areas of impact that include community collaboration and poverty prevention by providing tax resources, a resource fair, a financial literacy program, and by increasing volunteer engagement. The funds will be used for staff salaries, administrative costs, advertising, "miscellaneous," and platform subscriptions.	$20,000	**$0**
			TOTAL	**$495,243**	**$150,000**

Human Relations Commission Minutes

May 29, 2024, 5:30 p.m.
Council Hearing Room, 990 Palm Street, San Luis Obispo

Human Relations Commissioners Present:	Commissioner Stephanie Carlotti, Commissioner Vincent DeTurris, Commissioner Sierra Smith, Commissioner Taryn Warrecker, Vice Chair Catuih Campos, Chair Angie Kasprzak
City Staff Present:	Diversity, Equity, and Inclusion Manager Nestor Veloz-Passalacqua, Deputy City Manager Greg Hermann, City Clerk Teresa Purrington

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1. CALL TO ORDER

A Special Meeting of the San Luis Obispo Human Relations Commission was called to order on May 29, 2024 at 5:30 p.m. in the Council Hearing Room at City Hall, 990 Palm Street, San Luis Obispo, by Chair Kasprzak.

2. PUBLIC COMMENT FOR ITEMS ON THE AGENDA

3. BUSINESS ITEMS

3.a 2024-25 Human Services Grant Funding

Diversity, Equity and Inclusion Manager Nestor Veloz-Passalacqua presented the staff report and responded to Commission inquiries.

Chair Kasprzak opened Public Comment

Public Comment:
Biz Steinberg
Bernadette Bernardi
Susan Lamont
Ilene Brill
Jack Lahey
Janna Nichols
Marina Bernheimer
Karen Jones
--End of Public Comment--

Chair Kasprzak closed Public Comment

Motion By Commissioner Warrecker
Second By Commissioner Smith

To provide the following funding recommendation to City Council for the 2024-25 Human Services Grants:

1. Five Cities Homeless Coalition - Homeless Prevention & Rapid Re-Housing - $10,000

3. CASA of San Luis Obispo County - General SLO CASA Program Support - $10,000

5. CAPSLO - Homeless Prevention/Stable Housing Services - $10,000

6. CAPSLO - Families in Transition (FIT) - $5000

13. HASLO - Housing Stability with Supporting Housing Program - $10,000

16. Jewish Family Services of San Luis Obispo - Homeless Support Services - $7,300

17. Literacy for Life - The Literacy Program - $10,000

18. Long Term Care Ombudsman of San Luis Obispo County - Ombudsman Services - $5,000

19. Lumina Alliance - Emergency Shelter Program for Sexual Assault and Initiate Partner Violence Survivors - $20,000

25. Restorative Partners, Inc. - Opportunity to Fund - $10,000

27. San Luis Obispo Committee for Education on Alcoholism, dba Middle House - Alumni Housing - $6,250

28. San Luis Obispo Committee for Education on Alcoholism, dba Middle House - Homeless Prevention - $5,600

31. Senior Nutrition - Meals that Connect - $7,500

32. Shower the People - Shower the People - $20,000

33. SLO County UndocuSpport - Direct Housing Aid for Immigrant Families - $7,442

35. Smart Share Housing Solutions - Community Housing Provisions/Homeless Prevention - $5,908

Ayes (6): Commissioner Carlotti, Commissioner DeTurris, Commissioner Smith, Commissioner Warrecker, Vice Chair Campos, and Chair Kasprzak

CARRIED (6 to 0)

4. ADJOURNMENT

The meeting was adjourned at 7:08 p.m. The next Regular Meeting of the Human Relations Commission for June 5th is canceled. The next Regular Meeting of the Human Relations Commission is scheduled for Wednesday, July 10th, 2024 at 5:00 p.m. in the Council Hearing Room at City Hall, 990 Palm Street, San Luis Obispo.

APPROVED BY HUMAN RELATIONS COMMISSION: XX/XX/202X

Department: Attorney
Cost Center: 1501
For Agenda of: 7/16/2024
Placement: Consent
Estimated Time: N/A

FROM: Christine Dietrick, City Attorney
Prepared By: Sadie Symens, Deputy City Attorney

SUBJECT: APPROVE PARTICIPATION IN NATIONAL OPIOID LITIGATION SETTLEMENT AGREEMENT WITH KROGER CO.

RECOMMENDATION

1. Approve City participation in the nationally negotiated opioid related settlement agreements with supermarket pharmacy Kroger Co. ("Kroger"); and
2. Authorize the City Manager and City Attorney to execute documents as needed to participate in the settlement agreement; and
3. Authorize the City Manager and City Attorney to elect disposition of Kroger settlement funds (deferral of settlement funds to the County or direct allocation to the City); and
4. Direct the City Manager and City Attorney to conduct an evaluation of the aggregate national opioid litigation settlement amounts and administrative burdens of direct allocation, and, if warranted, authorize the City Manager to change the distribution election for all settlements, with notification the Council.

POLICY CONTEXT

Participating in the settlement agreement will provide substantial funding to be used to address opioid abuse, addiction and other opioid related issues and may assist the City in advancing City objectives consistent with the City's Economic Recovery, Resiliency and Fiscal Sustainability, Diversity, Equity and Inclusion and Housing and Homelessness Major City Goals.

DISCUSSION

Background

A new proposed nationwide settlement agreement[1] ("Settlement") has been reached that would resolve prescription opiate litigation that has been brought by numerous states, local political subdivisions, and special districts against Kroger Co. supermarket pharmacy ("Kroger") over the impacts of opioid use, abuse, and addiction. The Settlement also contains injunctive relief governing opioid dispensing practices and requires Kroger Co. to implement safeguards to prevent diversion of prescription opioids.

[1] View the proposed Kroger Settlement Agreement here: https://nationalopioidsettlement.com/wp-content/uploads/2024/05/Kroger-Multistate-Settlement-Agreement-Circulated-to-States-March-25-2024.pdf

The proposed settlement requires Kroger to pay approximately $1.2 billion to participating states and subdivisions to remediate and abate the impacts of the opioid crisis. The settlement requires payments over 11 years after its effective date. Depending on participation levels, California may receive up to $122 million in opioid abatement funds, 85% of which will go directly to cities and counties.

The proposed settlement has two key participation steps. First, each state must decide whether to participate. California has elected to participate in the settlement. Second, eligible subdivisions within the state must decide whether to participate in the settlement agreement and affirmatively opt-in by no later than August 12, 2024. Based upon subdivision participation forms received on or before that date, the subdivision participation rate will be used to determine whether a state earns its maximum potential payment under the settlement. If the settlement moves forward, the subdivision's release will become effective. If a settlement does not move forward, that release will not become effective.

Generally, the more subdivisions that participate, the greater amount of the settlement funds will flow to California and its participating local jurisdictions. Local government support and sign-on is required to maximize the amount coming to local communities. Eligible cities may elect to receive direct payment or have their allocated share go to the county in which they are located. According to the settlement administrator, 99% of cities and counties (by population) have joined the recent settlements against other opioid defendants. Indeed, the City participated in the 2023 national opioid litigation settlement agreement with CVS, Walgreens, Walmart, Teva and Allergan, as well as the 2021 agreements with various pharmaceutical Distributors and manufacturer Johnson & Johnson. As in those agreements, any subdivision that does not participate cannot directly share in any of the settlement funds. Any subdivision that does not participate may also reduce the amount of money for programs to remediate the opioid crisis in the state.

If the City elects to participate, the City can later decide whether to receive its share of allocated funds under the settlement agreements directly or have its share of funds default to San Luis Obispo County. For the two previous opioid settlement agreements, the City has elected to defer its funds to the County, based on the assessment that the administrative and reporting burden[2] outweighed the benefit of a direct allocation. However, the annual aggregate amount for which the City is eligible, either now or in the future as additional settlements are reached, may justify a direct allocation.[3]

[2] Participating Subdivisions receiving funds from the California opioid settlements are required to complete annual reporting of funds received and expended, by activity, to the Department of Health Care Services (DHCS.)

[3] The City's 2024 opioid settlement shares were $47,757.32 from the 2021 "Distributor" settlement (payment year 4 of 18 years), and $41,744.24 from the 2021 Janssen settlement (payment year 3 of 10 years), both of which were redirected to the County. Payments from the 2023 settlements have not yet been disbursed.

A direct allocation would require the City to administer the funds and report annually on program expenditures but would also allow the City greater control over how the funds are used. All payments due by defendants under the existing settlement agreements are to be paid out over a period of several years, ranging from six years (Walmart) to 18 years (Distributors).

The decision on disposition of funds for the Kroger settlement agreement does not need to be made now. The only decision the City must make now is whether to participate in the settlement agreement. Opting to participate in the settlement means agreeing to the terms of the settlement agreement, releasing all claims within the scope of the settlement, and agreeing to use monies received as required under each settlement. Staff recommends that Council delegate to the City Manager and City Attorney the authority to make this election (which can be changed later for any disbursement, at least 60 days prior to a Payment Date).

If the City does not opt in by August 12, 2024, it will be precluded from participation in the agreement, will not receive any of the allocated settlement funds and will be left with the option to individually pursue litigation against Kroger Co. (note that the City's participation in the settlement will include executing a Master Dismissal of released claims against these defendants). The latter option would be burdensome, costly, risky and demanding of resources vastly disproportionate to the City's likely ability to prevail in individual litigation against the various defendants. Accordingly, staff is recommending the City Council authorize participation in the existing settlement.

Previous Council or Advisory Body Action

Council approved participation in the national opioid litigation settlement agreements with McKesson, Cardinal Health, and AmerisourceBergen ("Distributors") and Janssen/Johnson & Johnson in 2021. Council also approved participation in the settlement agreement with CVS, Walgreens, and Walmart pharmacies as well as the Teva and Allergen manufacturers in 2023.

Public Engagement

None. Not applicable since this involves a settlement of litigation to which the City was not a direct party.

CONCURRENCE

The Police and Fire Chief, Community Development and City Administration Departments concur in the recommendation.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act does not apply to the recommended action in this report, because the action does not constitute a "Project" under CEQA Guidelines Section 15378.

FISCAL IMPACT

Budgeted: No Budget Years: 2024 through 2034

Funding Identified: N/A. Settlement agreement would provide funds to the City, not require funds be paid out.

Fiscal Analysis:

Funding Sources	Total Budget Available	Current Funding Request	Remaining Balance	Annual Ongoing Cost
General Fund	$	$0	$	$0
State				
Federal				
Fees				
Other:				
Total		**$0**		**$0**

The amount of funds that would be received by the City under the settlement agreements cannot be estimated at this time. The final pay-out amounts will be determined by the percentage of local jurisdictions that elect to participate in the agreements. The funds will be received annually over a period of 11 years after the agreement's effective date.

ALTERNATIVES

Do not approve the City's participation in the settlement agreements and preserve the City's option to pursue litigation against the pharmaceutical distributors and manufacturer without receiving any funds from the settlement agreements. Staff does not recommend this option for reasons set forth above.

ATTACHMENTS

A - Subdivision Participation and Release Form

EXHIBIT K

Subdivision Participation and Release Form

Governmental Entity:	State:
Authorized Official:	
Address 1:	
Address 2:	
City, State, Zip:	
Phone:	
Email:	

The governmental entity identified above ("*Governmental Entity*"), in order to obtain and in consideration for the benefits provided to the Governmental Entity pursuant to the Settlement Agreement dated March 22, 2024 ("*Kroger Settlement*"), and acting through the undersigned authorized official, hereby elects to participate in the Kroger Settlement, release all Released Claims against all Released Entities, and agrees as follows.

1. The Governmental Entity is aware of and has reviewed the Kroger Settlement, understands that all terms in this Participation and Release Form have the meanings defined therein, and agrees that by executing this Participation and Release Form, the Governmental Entity elects to participate in the Kroger Settlement and become a Participating Subdivision as provided therein.

2. The Governmental Entity shall promptly, and in any event no later than 14 days after the Reference Date and prior to the filing of the Consent Judgment, dismiss with prejudice any Released Claims that it has filed. With respect to any Released Claims pending in *In re National Prescription Opiate Litigation*, MDL No. 2804, the Governmental Entity authorizes the Plaintiffs' Executive Committee to execute and file on behalf of the Governmental Entity a Stipulation of Dismissal with Prejudice substantially in the form found at *https://nationalopioidsettlement.com/*.

3. The Governmental Entity agrees to the terms of the Kroger Settlement pertaining to Participating Subdivisions as defined therein.

4. By agreeing to the terms of the Kroger Settlement and becoming a Releasor, the Governmental Entity is entitled to the benefits provided therein, including, if applicable, monetary payments beginning after the Effective Date.

5. The Governmental Entity agrees to use any monies it receives through the Kroger Settlement solely for the purposes provided therein.

6. The Governmental Entity submits to the jurisdiction of the court in the Governmental Entity's state where the Consent Judgment is filed for purposes limited to that court's role as provided in, and for resolving disputes to the extent provided in, the Kroger Settlement. The Governmental Entity likewise agrees to arbitrate before the National Arbitration Panel

as provided in, and for resolving disputes to the extent otherwise provided in, the Kroger Settlement.

7. The Governmental Entity has the right to enforce the Kroger Settlement as provided therein.

8. The Governmental Entity, as a Participating Subdivision, hereby becomes a Releasor for all purposes in the Kroger Settlement, including without limitation all provisions of Section XI (Release), and along with all departments, agencies, divisions, boards, commissions, districts, instrumentalities of any kind and attorneys, and any person in their official capacity elected or appointed to serve any of the foregoing and any agency, person, or other entity claiming by or through any of the foregoing, and any other entity identified in the definition of Releasor, provides for a release to the fullest extent of its authority. As a Releasor, the Governmental Entity hereby absolutely, unconditionally, and irrevocably covenants not to bring, file, or claim, or to cause, assist or permit to be brought, filed, or claimed, or to otherwise seek to establish liability for any Released Claims against any Released Entity in any forum whatsoever. The releases provided for in the Kroger Settlement are intended by the Parties to be broad and shall be interpreted so as to give the Released Entities the broadest possible bar against any liability relating in any way to Released Claims and extend to the full extent of the power of the Governmental Entity to release claims. The Kroger Settlement shall be a complete bar to any Released Claim.

9. The Governmental Entity hereby takes on all rights and obligations of a Participating Subdivision as set forth in the Kroger Settlement.

10. In connection with the releases provided for in the Kroger Settlement, each Governmental Entity expressly waives, releases, and forever discharges any and all provisions, rights, and benefits conferred by any law of any state or territory of the United States or other jurisdiction, or principle of common law, which is similar, comparable, or equivalent to § 1542 of the California Civil Code, which reads:

> **General Release; extent.** A general release does not extend to claims that the creditor or releasing party does not know or suspect to exist in his or her favor at the time of executing the release that, if known by him or her would have materially affected his or her settlement with the debtor or released party.

A Releasor may hereafter discover facts other than or different from those which it knows, believes, or assumes to be true with respect to the Released Claims, but each Governmental Entity hereby expressly waives and fully, finally, and forever settles, releases and discharges, upon the Effective Date, any and all Released Claims that may exist as of such date but which Releasors do not know or suspect to exist, whether through ignorance, oversight, error, negligence or through no fault whatsoever, and which, if known, would materially affect the Governmental Entities' decision to participate in the Kroger Settlement.

11. Nothing herein is intended to modify in any way the terms of the Kroger Settlement, to which Governmental Entity hereby agrees. To the extent this Participation and Release Form is interpreted differently from the Kroger Settlement in any respect, the Kroger Settlement controls.

I have all necessary power and authorization to execute this Participation and Release Form on behalf of the Governmental Entity.

Signature: _____

Name: _____

Title: _____

Date: _____

Council Agenda Correspondence

DATE: July 15, 2024

TO: Mayor and Council

FROM: Matt Horn, Public Works Director
Prepared By: Donna King, Parking Program Manager

VIA: Whitney McDonald, Interim City Manager

SUBJECT: ITEM 7A – INTRODUCE AN ORDINANCE TO AMEND TITLE 10 OF THE MUNICIPAL CODE AND ADOPT A RESOLUTION MODIFYING THE DANA STREET PARKING DISTRICT

Staff received the following questions, regarding changes to the Dana Street Preferential Parking District. The questions are below with staff's response shown in *italics*:

1) **What is the current occupancy on Dana Street?**

   The Dana Street Parking District is comprised of 78 parking spaces and 116 permits have been issued in the district. The current provisions for Dana Street allow up to 124 eligible permits to be sold. As noted in the staff report, the average parking utilization measured in April 2024 was 26%.

2) **Why is staff recommending modifying the Municipal Code?**

   Staff is recommending removal of the specifics in the Municipal Code that limit the City's ability to address parking needs on Dana Street, as usage and needs on Dana Street have changed over time. Staff is recommending that, instead, Council delegate authority via resolution to staff to make adjustments to the parking district after outreach to Dana Street Parking District members. The delegated authority would be temporary until the completion of the Cultural Arts District Parking Structure in early 2026.

3) **Will 10-hour paid parking spaces be added to Dana Street?**

   No. There are no current plans to add 10-hour paid parking spaces to Dana Street. Any new 10-hour paid parking spaces require review and approval from Council and are required to be implemented via ordinance.

   The staff report also discusses "timed overlay zones" which could allow residents, visitors, and employees the ability to park on Dana St for restricted hours, but that is also not recommended at this time.

4) I live on Dana Street and have multiple drivers in my household. Can I get more permits?

Staff is intending to issue up to two parking district permits to each residential addressed property that participates in the parking district. This will allow each unit on a multi-family residential property, regardless of the number of units, to receive two permits, including two permits per unit in the 16-unit complex as well as other six and eight unit complexes on Dana Street. This modification could increase the total number of parking permits issued to residential properties by 60. Staff is not recommending increasing the number of preferential parking district permits for residential properties in excess of two per address. Other parking districts are also limited to two permits per address, including in districts where it is routine to have more than two licensed drivers or more than two vehicles per residence, especially in and around the Cal Poly area.

5) How many permits will be issued to commercial properties on Dana Street? Can permit issuance be based on square footage of the business or number of employees rather than per address?

Staff is intending to initially issue up to four parking district permits to each commercial property that participates in the parking district. Staff will complete occupancy studies monthly in the district after the recommended changes have been implemented. Each month the parking utilization rates are below 50% to 60%, commercial properties will be offered the option to purchase one additional parking permit. This occupancy work and increasing the number of commercial parking permits issued will occur until all commercial properties have the desired number of parking permits or until the average occupancy rate is somewhere between the 50 to 60% range.

Staff is not recommending issuing preferential parking permits based upon property square footage or number of employees because square footage information and the total number of employees within a commercial space is not readily available to Parking Services staff.

6) Are contractors for the Cultural Arts District Parking Structure (CADPS) allowed to park on Dana Street?

Contractors working on the CADPS are not specifically given the ability to park within the Dana Street Parking District. Some contractors that work on the CADPS project are parking within the Dana Street Parking District as their companies are renting or leasing commercial properties within the Dana Street Parking District.

There are currently two CADPS contractors that lease property within the Dana Street Parking District. Each contractor has been issued four temporary parking permits. CADPS contractors leasing or renting commercial properties within the Dana Street Parking District will be subject to all the same benefits and restrictions as other commercial properties within the Dana Street Parking District.

7) Where can Mission Prep faculty and staff park during the construction of CADPS?

As stated in the staff report, Mission Prep students and faculty will be encouraged to purchase garage permits in the Fall of 2024 when school resumes. Staff recommends students park in the garages to alleviate additional foot and vehicular traffic near the construction site. This will promote additional safety for young drivers by avoiding traveling through a construction zone and provide cost savings with the newly reduced garage permit price of $45 per month. Staff are communicating with the school on the new rate as they gear up for the 2024-2025 school year.

8) There are plans to develop 466 Dana Street. How will this impact parking on Dana Street?

The proposed project is an affordable housing community known as the Waterman Peace Village and will provide 20 units of housing around the historic Rosa Butron Adobe. The proposed community will be specifically targeting residents who are looking to live a car-free lifestyle close to downtown amenities. The project provides bike storage as well as e-bike charging facilities sized appropriately for each resident to own a bike. As currently proposed, there will be 4 parking spaces including one Americans with Disabilities (ADA) compliant parking space on-site. The project site (466 Dana Street) is not included in the Dana Street Parking District as the property is not a current residential use. As a result, under the current regulations and proposed actions, this property would not be issued any parking permits in the district at this time.

The project is currently being developed by the applicant and will likely require review by the City's Building and Safety Division, Architectural Review Commission and the Cultural Heritage Committee. Construction is anticipated to begin in 2025.

9) The map of Dana Street in the agenda report calls out an area for 8am-2am. What does this time period specify?

We have 12 preferential parking districts. Each district has different operational hours dependent on the needs of the district when the district was established. The current 8 am to 2 am residential permit operational hours are what was approved when the Dana Street Preferential Parking District was established in 2020 and is what is currently posted and enforced. Staff is not making any recommendation to change the district hours for residential permits. The commercial parking permits were established in March 2022 with daytime use restricted hours of 8 am to 6 pm. Staff proposed Ordinance amendment and Resolution would authorize the Public Works Director to remove the daytime use restriction hours from commercial parking permits and is staff's plan.

Council Agenda Report

Department: Public Works
Cost Center: 5101
For Agenda of: 7/16/2024
Placement: Public Hearing
Estimated Time: 60 Minutes

FROM: Matt Horn, Public Works Director
Prepared By: Donna King, Parking Program Manager

SUBJECT: INTRODUCE AN ORDINANCE TO AMEND TITLE 10 OF THE MUNICIPAL CODE AND ADOPT A RESOLUTION MODIFYING THE DANA STREET PARKING DISTRICT

RECOMMENDATION

1. Introduce an Ordinance entitled, “An Ordinance of the City Council of the City of San Luis Obispo, California, amending Municipal Code Title 10 Chapter 36 regarding Stopping, Standing and Parking for Certain Purposes or in Certain Places” to remove exceptions for the Dana Street Residential Parking District; and
2. Adopt a Draft Resolution entitled, “A Resolution of the City Council of the City of San Luis Obispo, California, modifying the Preferential Parking Permit District for the Dana Street Area of the City, authorizing the Public Works Director to make temporary modifications to the Dana Street Parking District” until the completion of construction of the Cultural Arts District Parking Structure including, but not limited to, adjusting the district boundaries, the eligible properties within the boundary, the number of permits issued to those properties, and imposing or modifying hours-of-use restrictions.

REPORT-IN-BRIEF

In the fall of 2023 with the beginning of the construction for CADPS, available on-street parking on the west side of downtown was immediately impacted. The Dana Street Preferential Parking District, directly adjacent to the CADPS site, was observed to be underutilized. In prior years, Council has taken action to encourage increased use of the on-street parking on Dana Street, including allowing multi-family properties with five to eight units to participate as well as allowing commercial units on Dana Street limited daytime use permits. (See Previous Council Action section below for a complete timeline.)

On November 7, 2023, Council directed staff to return with proposed changes necessary to authorize the Public Works Director to implement a program that will allow for more on-street parking utilization on Dana Street. In the spring of 2024, staff conducted occupancy surveys confirming underutilization of parking spaces in the Dana Street Preferential Parking District. With this information, staff held a public meeting where they met with participants of the Dana Street district. Public feedback was supportive of additional modifications to the district, including allowing 421 Dana Street (a 16 until multi-family property) to participate and removing the restriction of daytime use only for commercial permit holders.

Based on the low utilization of parking spaces in the Dana Street Residential Parking District, the significant but temporary impacts from the construction of CADPS, and prior Council direction, staff is recommending an amendment to Title 10, Section 36 of the Municipal Code (Attachment A), to remove special exceptions applicable to the Dana Street parking district, and adoption of a Resolution authorizing the Public Works director to make temporary modifications to the Dana Street parking district during and after construction of the CADPS including but not limited to adjusting the district boundaries, the eligible properties within the boundary, the number of permits issued to those properties, and imposing or modifying hours-of-use restrictions.

POLICY CONTEXT

On January 14, 2020, City Council approved the establishment the Dana Street preferential parking district via Resolution number 11068 (2020 Series).

At the November 7, 2023, City Council meeting, Council directed staff to evaluate the utilization of Dana Street for public parking and to return to Council with recommendations to be implemented by the Public Works Director.

Municipal Code section 10.36.170 restricts participation within the Dana Street residential parking district to single-family properties and multifamily units of up to eight units. Commercial properties located on or immediately adjacent to Dana Street are eligible to receive daytime use permits only (8:00am-6:00pm daily, see Resolution No. 11313 (2022 series)) and restricts commercial property permits to daytime use only.

Municipal Code section 10.36.200 and Resolution No. 11068 (2020 Series) allows vehicles displaying daytime use permits to park in the Dana Street parking district during the restricted hours (8:00am and 6:00pm).

Municipal Code section 10.36.220 outlines the issuance of permits for residential districts and sets a limit of no more than two permits per residential property.

Based on utilization data and community feedback, staff is recommending changes to Municipal Code sections 10.36.170, 10.36.200, and 10.36.220 to allow all commercial and residential properties in the district to receive permits as directed by the Public Works Director until the completion of the Cultural Arts District Parking Structure (CADPS) to better utilize parking availability on Dana Street.

DISCUSSION

The Dana Street Preferential Parking District is located on the west side of downtown, adjacent to the area defined as the “Downtown Core.” Due to this, parking in this area is in high demand. Exacerbating this demand, construction of the Cultural Arts District Parking Structure (CADPS) on the corner of Palm and Nipomo Streets permanently removed approximately 80 parking spaces and another 20-40 will be temporarily restricted throughout construction. The construction of CADPS is scheduled to continue through the beginning of 2026.

In the fall of 2023, at the start of construction of CADPS, businesses and tenants adjacent to the project, as well as families and staff of Mission Preparatory High School (Mission Prep) expressed concern due to the reduction of public parking in that area, particularly the reduction of 10-hour parking spaces. The 10-hour spaces allow for longer term on-street and surface lot parking at a reduced rate compared to premium parking spots central to the downtown core. Additionally, the City has a 10-hour permit that allows permits to be purchased for use of these spots for $60 per month. As a result, the 10-hour areas are popular with downtown employees, and the students, staff, and faculty of Mission Prep.

In addition to a reduction of parking spaces, the area has seen an increase in parking demand, as the nearby parking is an attractive option for the construction crew of CADPS to park their personal vehicles upon arriving to work. It is estimated that approximately 20-60 additional vehicles may be parking in the area each day during the construction of the project.

Considering these impacts, community concerns, and concerns from nearby businesses regarding the need for available of low-cost spaces for employees, the City Council at the November 7, 2023, meeting directed staff to explore ways to offset these impacts, including consideration of utilizing Dana Street.

Since November, staff has implemented three items to partially offset these impacts:

1. Parking staff identified underutilized 2-hour parking zones within the adjacent area near the CADPS construction site and expanded to 10-hr parking zones into those areas, allowing 10-hr permit holders to have additional parking. This action increased the 10-hour parking spaces in the area by approximately 60 spaces, not entirely replacing what was removed, but significantly reducing the impact.
2. Marked construction vehicles are permitted to park in designated preferential parking spaces while performing work in the district without charge based on Section 10.36.200C of the Municipal Code. Based on the fact that the contractors for CADPS are leasing office space from the Soda Water Works building (a designated preferential parking district commercial property), are working on the nearby project, and Dana Street has been underutilized, the City has issued additional temporary permits for the contractors of CADPS to allow them to park on Dana Street (a designated preferential parking district) without charge under the authority given to the Public Works Director in Section 10.36.220B of the Municipal Code to issue any number of commercial permits for each addressed unit.
3. Council approved a reduction in the cost of monthly garage parking permits from $85 per month to $45 per month effective July 1, 2024. This may incentivise the purchase of garage permits over the 10-hour permits. Specifically, Mission Prep students and faculty will be encouraged to purchase garage permits in the fall of 2024 when school resumes to alleviate additional foot and vehicular traffic near the construction site.

Staff continues to be in direct contact with businesses adjacent to the CADPS construction site as well as Mission Prep. Following implementation of the above strategies, concerns have been overall reduced, and the use of 10-hour parking spaces in this area have not been at capacity – there are typically available spaces. However, as the demand in the area can fluctuate because of the ongoing construction and the different phases of construction, staff is proposing additional measures be implemented to alleviate fluctuating impacts.

Since the establishment of the Dana Street Preferential Parking District in January 2020, Council has approved modifications to the district to make more efficient use of the on-street parking, as it demonstrated to be underutilized. In 2021, the district was modified to allow one permit per unit for multi-family properties with five to eight units (all other preferential parking districts limit multi-family participation to properties with less than five units) (Ordinance No. 1694 (2021 Series)). In 2022, Council approved a second modification to the Dana Street district allowing commercial units on Dana Street up to two limited daytime use permits and removing the limitation of 1 permit per multi-family unit (Ordinance No.1707 (2022 Series)), (Ordinance NO 1710 (2022 Series)), (Resolution No. 11313 (2022 Series)). This approval was conditional in that it would be in effect until the completion of CADPS or until nullified by City Council action.

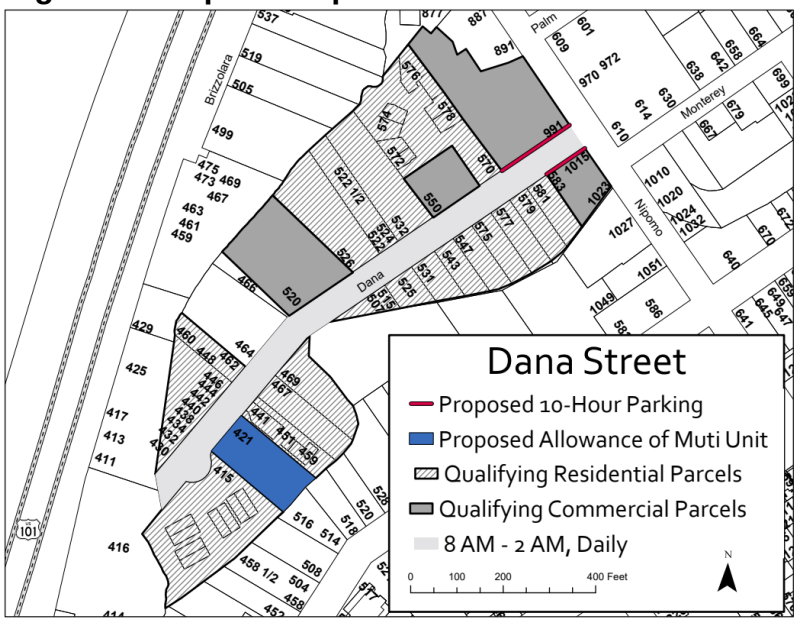
In the fall of 2023 with the beginning of the construction for CADPS, available on-street parking on the west side of downtown was immediately impacted. However, daytime parking utilization on Dana Street continued to be low based on observation. On November 7, 2023, Council directed staff to return with proposed changes necessary to authorize the Public Works Director to implement a program that will allow for more on-street parking utilization on Dana Street.

On Tuesday, April 23, 2024, and Friday, April 26, 2024, staff conducted occupancy counts to adequately gauge the level of occupancy on Dana Street. Occupancy counts were conducted each hour of the day from 9 AM to 8 PM. The average occupancy was 26% with no increase in occupancy after 6 PM. There are 78 parking spaces on Dana Street and 106 permits were issued in the Dana Street Residential Parking District in 2023. The data shows an underutilization of parking spaces and room for oversell of permits in the Dana Street Residential Parking District. While there are no established occupancy rate norms in residential neighborhoods, the proximity to downtown and the impacts of parking in the surrounding streets dictates that the spaces on Dana Street should be utilized as much as possible without greatly impacting the residents. An oversell (selling more permits than available spaces) of permits will better utilize the on-street parking spaces without adding disruption to residents and businesses that allowing overflow parking from surrounding areas would. Occupancy should continue to be evaluated quarterly to ensure the oversell of permits does not cause occupancy levels to exceed 85%.

On May 1, 2024, staff held a community meeting to discuss potential changes to the Dana Street Residential Parking District to better utilize the parking spaces in the district. Seventeen people signed in for attendance at the meeting with attendees representing business owners, and residents of single family and multi-family properties on Dana Street.

Staff proposed options for modifications to the district that included adding 10-hour paid parking spaces in the spaces adjacent to the commercial properties on the corners of Dana and Nipomo Streets and allowing 421 Dana Street, a 16-unit multi-family property, to participate in the Dana Street Residential District as shown in the map below.

Figure 1: Proposed Options Presented to Residents



Key takeaways from the public meeting indicated that attendees were opposed to any addition of paid parking spaces on Dana Street. Based on feedback from the meeting and received correspondence, attendees were in favor of including 421 Dana Street in the district and removing the restriction of daytime use only for commercial permit holders (which would allow commercial permit holders to park in the district after 6:00pm).

Based on the low utilization of parking spaces in the Dana Street Residential Parking District, the significant but temporary impacts from the construction of CADPS, Council direction, and community feedback, staff is recommending amending Title 10, Section 36 of the Municipal Code (Attachment A) to remove specific exceptions for Dana Street, and adopting a resolution (Attachment B) to authorize the Public Works Director to make temporary modifications to the Dana Street Parking District that will be in effect until the completion of construction of CADPS, including but not limited to adjusting the district boundaries, the eligible properties within the boundary, the number of permits issued to those properties, and imposing or modifying hours-of-use restrictions.

Examples of this could include:

- Allowing 421 Dana Street to participate in the district.
- Remove the daytime use restriction for commercial permit holders.
- Issue any number of commercial permits to participating commercial properties.
- Establish a timed overlay zone which could allow residents, visitors, and employees who are not a part of the designated district the ability to park on Dana Street for a limited time during restricted hours.

As each temporary modification is made, staff anticipates additional parking relief will be noticed on the adjacent downtown streets that are not part of the district. This will assist businesses outside of the district that are impacted by construction who also described the need for additional available parking for their employees. For example, allowing 421 Dana Street to park in the district will potentially relocate 32 vehicles currently parked on the adjacent downtown streets to Dana Street, as these residents are currently not allowed permits for the district and are therefore currently looking for parking on streets other than Dana Street.

During this time, staff will monitor the Dana Street district utilization quarterly to provide this information to the Public Works Director for review and consideration of additional temporary modifications. Prior to any modification, staff will provide advance notification to the district properties to provide an opportunity for input through mailed notices and community meetings prior to implementation. After the construction of CADPS is complete and the garage is open for public use, staff will again review the utilization of the Dana Street District and the need for a continued residential district on Dana Street and return to Council with recommendations.

Attachment A is a proposed Ordinance introducing changes to specific Municipal Code sections to remove special exceptions for the Dana Street Parking District. Attachment B is a proposed Resolution to extend the boundaries of the Dana Street Preferential Parking District to include all addresses on Dana Street (see Exhibit A to the proposed Resolution).

Previous Council or Advisory Body Action
On January 14, 2020, Staff presented to City Council two residential parking permit district requests for approval. One of these requests was to establish a district on the 400-500 block of Dana Street. City Council approved the establishment of the Dana Street parking district via Resolution number 11068 (2020 Series). Council also provided staff with direction to extend the district to the entire street and explore providing one parking permit for each unit for multi-family properties with 8 units or less.

On December 8, 2020, Staff presented to City Council information to expand the Dana Street Parking District boundaries to the entire street and the possible issuance of one permit per unit for multi-family properties with eight units or less. Council voted to survey the multi-family properties that would be added based on this action and for staff to return to Council with municipal code amendments and an update to the Dana Street district resolution based on the survey results.

On March 2, 2021, Council voted to introduce Ordinance number 1694 (2021 Series) amending Municipal Code Title 10 Chapter 36 to allow multi-family properties of five to eight units to participate in the Dana Street Parking District (one permit per unit) and to adjust replacement permit fee amounts, and adopted Resolution number 11229 (2021 Series) modifying the Residential Parking permit District for the Dana Street area establishing days and hours of operation and to include multi-family properties of five to eight units. This action excluded one address (421 Dana Street), a parcel that contains a

multi-family unit of 16 units, out of concern that issuing permits to 421 Dana would cause issuance of more permits than spaces available on the street.

On April 6, 2021, Council heard the second reading and adopted the ordinance as detailed above.

On March 15, 2022, Council voted to introduce Ordinance number 1710 (2022 Series) amending Municipal Code Title 10 Chapter 36 to allow for the issuance of limited daytime use permits in the Dana Street Parking District, and adopted Resolution number 11313 (2022 Series) modifying the Residential Parking permit District for the Dana Street area establishing the issuance of limited daytime use permits (8:00am-6:00pm) for commercial properties. On April19, 2022, Council adopted Ordinance No. 1710 (2022 Series).

On November 7, 2023, Council directed staff to return with proposed changes necessary to authorize the Public Works Director to implement a program that will allow for more on-street parking utilization on Dana Street.

Public Engagement
A public community meeting was held on May 1, 2024, to gain community input on potential changes to the Dana Street Residential Parking District. After the community meeting, a letter was received from the owner of The Soda Water Works (the commercial building located at 1015 Nipomo Street) and signed by all tenants with requested changes that included additional commercial permits for Soda Water Works, an allowance for 24-hour commercial permits, and allowance to park in 10-hour spaces on Dana Street if adopted (Attachment C). An additional letter was received from Hume Engineers requesting access to the 10-hour meter spaces on Dana Street if approved, additional commercial permits, and the removal of the daytime use exception (Attachment D). Letters were mailed to all properties on Dana Street to notify them of the direction provided by Council, staff recommendations, and the next steps in the process (Attachment E).

Since the Fall, staff has been in communication with adjacent property and business owners impacted by the construction of CADPS including businesses in the Creamery and students and faculty of Mission Prep. Notification and resources were provided regarding the addition of 10-hour meter spaces, and more recently, the reduced monthly garage permit rate.

CONCURRENCE

The City Attorney's Office has reviewed and concurs with this recommendation.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act does not apply to the recommended action in this report, because the action does not constitute a "Project" under CEQA Guidelines Sec. 15378.

FISCAL IMPACT

Budgeted: Yes Budget Year: 2024-25
Funding Identified: Yes

Fiscal Analysis:

Funding Sources	Total Budget Available	Current Funding Request	Remaining Balance	Annual Ongoing Cost
General Fund	$	$	$	$
State				
Federal				
Fees				
Other:				
Total	**$**	**$**	**$**	**$**

There are no upfront costs as a result of the proposed changes. As an ongoing cost, additional hangtag permits will need to be purchased annually for any additional permits issued to 421 Dana Street or the commercial properties and are expected to be less than $200. The cost of the additional hangtag permits will be covered by the purchase price of the permits.

ALTERNATIVES

1. ***Do not introduce the proposed Municipal Code amendments.*** Staff does not recommend this alternative since the existing Municipal Code sections which governs residential parking permit districts does not allow for good utilization of on-street parking spaces in the Dana Street Residential Parking District.
2. ***Do not adopt the resolution modifying the Dana Street Parking District.*** Staff does not recommend this alternative as there is support from the residents, businesses, and tenants on Dana Street to modify the district to include 421 Dana Street and remove the daytime restrictions for commercial permit holders.
3. ***Modify the proposed Municipal Code amendments and/or the proposed resolution***. Staff does not recommend this alternative as additional modification may need to return to Council to modify the Municipal Code sections and will cause significant delays in implementation and be a poor use of staff and Council time.
4. ***Modify the proposed Municipal Code amendments to incorporate each provision of the proposed resolution rather than delegate the authority to the Public Works Director***. Staff does not recommend this alternative as each modification will need to return to Council to modify the Municipal Code sections and will cause significant delays in implementation and be a poor use of staff and Council time.

ATTACHMENTS

A - Draft Ordinance amending Title 10, Section 36 of the Municipal Code
B - Draft Resolution modifying the Dana Street Residential Parking District
C - Letter from Soda Water Works
D - Letter from Hume Engineering
E - Dana Street Council Meeting Notification

ORDINANCE NO. _____ (2024 SERIES)

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SAN LUIS OBISPO, CALIFORNIA, AMENDING MUNICIPAL CODE TITLE 10, CHAPTER 36, REGARDING STOPPING, STANDING AND PARKING FOR CERTAIN PURPOSES OR IN CERTAIN PLACES

WHEREAS, City Council approved the establishment of the Dana Street Parking District via Resolution number 11068 (2020 Series) on January 14, 2020; and

WHEREAS, on November 7, 2023, the Council of the City of San Luis Obispo directed staff to evaluate the utilization of parking on Dana Street and to return to Council with recommendations to be implemented by the Public Works Director; and

WHEREAS, Dana Street occupancy counts from Spring 2024 show parking on the street is underutilized; and

WHEREAS, there is one 16-unit multi-family property located at 421 Dana Street that is presently excluded from the preferential parking district; and

WHEREAS, commercial permit holders are presently restricted to daytime use only; and

WHEREAS, the construction of the Cultural Arts District Parking Structure (CADPS) is impacting parking availability on surrounding streets; and

WHEREAS, the inclusion of all properties on Dana Street into the preferential parking district and the removal of existing restrictions on commercial permits will increase parking utilization on Dana Street without adding disruption to residents and businesses on Dana Street; and

WHEREAS, because construction-related disruption to parking on and around Dana Street is a temporary condition, parking needs in that area will require re-evaluation throughout and after construction, including adoption of temporary modifications to the Dana Street Parking District during construction of the CADPS.

NOW, THEREFORE, BE IT ORDAINED by the Council of the City of San Luis Obispo as follows:

SECTION 1. Section 10.36.170 of the San Luis Obispo Municipal Code, titled Designation of residential parking permit areas—Adoption of resolution, is hereby amended to read as follows:

10.36.170 Designation of residential parking permit areas—Adoption of resolution.

A. The council should, by resolution, designate an area of the city as a preferential parking permit area if the council finds that:

1. The streets in the area do not provide for paid parking controlled and regulated by the city as set forth in Chapter 10.52;

2. The streets in the area are congested with vehicles parked by persons not residing or working in the area and the designation is supported by a sixty percent majority of the affected addressed units as indicated by a city survey of the affected addressed units; or

3. Limiting the parking of vehicles along the streets in the area to vehicles registered or controlled and exclusively used by persons residing in an area or working in the area is necessary in order to preserve the character and to manage parking demand of the existing area approved by a sixty percent majority of addressed units in the area. Addressed units will be determined using the city's address database (there may be more than one addressed unit per parcel) and will be limited to either commercial units or residential units, including non-multifamily units of less than five dwelling units ~~with the exception of the preferential parking permit district on Dana Street which will allow for the following modifications:,~~ unless otherwise approved via resolution of the Council.

a. ~~Multifamily units of five to eight dwelling units to be eligible to receive permits. This exception will be in effect until the completion of construction of the Palm-Nipomo parking structure or until nullified by city council action.~~

~~b. Commercial properties located on or immediately adjacent to Dana Street to be eligible to receive limited daytime use permits.~~

B. In determining whether limiting the parking of vehicles along the streets in the area to vehicles registered to or controlled and used exclusively by persons residing or working in the area is necessary in order to preserve the character of the existing area for the persons residing or working in the area, the council shall consider the negative effect of vehicles parked by persons not residing or working in the area on:

1. Environmental characteristics such as ambient noise levels and air pollution levels;

2. Pedestrian and vehicular traffic safety in the area; and

3. The burden on persons residing or working in the area gaining access to their residences or places of employment.

C. The council may, by resolution, designate an area of the city as a preferential parking permit area after holding a public hearing and making a finding that the establishment of the district represents the desire of a majority of the addressed units of the area.

SECTION 2. Section 10.36.200 of the San Luis Obispo Municipal Code, titled Limitations on parking in a preferential permit parking area, is hereby amended to read as follows:

It is unlawful for any person to stop, stand, or park a vehicle on any street identified in a resolution adopted by the council designating a preferential permit parking area during the hours and on the days set forth in such resolution except:

A. Those vehicles described in Section 10.36.180 displaying a valid permit issued as provided for by Section 10.36.220 and parked within the street block in front of the addressed unit to which the permit is issued or within one adjoining district block; or

B. Any emergency vehicle, including, but not limited to, an ambulance, fire engine, or police vehicle; or

C. A vehicle with commercial plates which is under the control of a person, who does not reside within the district, providing service for hire to property located in the designated preferential permit parking area, including but not limited to a delivery vehicle. Such vehicles cannot be parked within the area for more than twenty-four consecutive hours; or

~~D. Vehicles displaying a limited daytime use permit parked in the Dana Street preferential parking district during the hours and on the days set forth in the resolution that established the district; or~~

D. ~~E.~~ Preferential permit parking area occupants wishing to sponsor guests which will exceed the number of parking permits available may contact the city parking manager and request temporary permits. If the temporary exemption is granted by the parking manager, all vehicles which have as their destination a qualified preferential permit address shall display, in clear view on the dashboard, written confirmation of the street address and date and time that the permit is valid. Issuance of sponsored guest permits shall be deemed infrequent occurrences and any regular requests for sponsored guest permits will not be authorized. This section shall not be interpreted to allow the daily parking of vehicles. Any vehicle not displaying the proper or authorized identification shall be subject to citation.

SECTION 3. Section 10.36.220 of the San Luis Obispo Municipal Code, titled Preferential parking permit – Issuance, is hereby amended to read as follows:

A. For preferential parking permits issued to residential properties, the director of public works, or their designee, will annually issue two preferential parking permits to the registered property owner, or the registered property owner's representative, as authorized in writing, of each residential property shown with a unique number on the latest county of San Luis Obispo assessment roll within each residential preferential parking permit area established by resolution as set forth in Section 10.36.180. Qualified residential parcels that have multiple, separate addressed units shall be eligible to receive permits for each addressed unit, providing the total number of permits issued to one parcel does not exceed twice the number of residential dwelling units on the parcel.

B. For preferential parking permits issued to commercial properties, the director of public works, or their designee, will annually issue any number of preferential parking permits to the occupant of each property shown with a unique number on the latest county of San Luis Obispo assessment roll within each preferential parking permit area established by resolution as set forth in Section 10.36.180. ~~with the exception of commercial properties immediately adjacent to the preferential parking district on Dana Street which qualify to receive up to two limited daytime use permits per addressed unit as set forth in the resolution that established that district.~~ Qualified commercial parcels that have multiple, separate addressed units shall be eligible to receive any number of permits for each addressed unit.

C. All preferential parking permits, whether issued under subsection A or B of this section, may be picked up in person at the office of the city parking manager or will be mailed to the address of the property on written request of the property owner.

D. All preferential parking permits, whether issued under subsection A or B of this section, may be transferred by the occupant to any vehicle that is to be parked on the street and will be recognized by the city, providing they are displayed clearly. The parking permits shall be issued annually. Fees for parking permits shall be established by city council resolution. The permits shall be considered part of the occupancy of the property and shall be transferred to the new occupant upon sale of the property or upon lease of the property. New applicants must present proof of occupancy within the preferential parking district prior to permit issuance.

SECTION 4. Severability. If any subdivision, paragraph, sentence, clause, or phrase of this ordinance is, for any reason, held to be invalid or unenforceable by a court of competent jurisdiction, such invalidity or unenforceability shall not affect the validity or enforcement of the remaining portions of this ordinance, or any other provisions of the city' s rules and regulations. It is the city' s express intent that each remaining portion would have been adopted irrespective of the fact that any one or more subdivisions, paragraphs, sentences, clauses, or phrases be declared invalid or unenforceable.

SECTION 5. Environmental Determination. These amendments to Title 10 Chapter 36 of the City of San Luis Obispo Municipal Code do not constitute a “Project” under California Environmental Quality Act (CEQA) Guidelines Sec. 15378.

SECTION 6. A summary of this ordinance, together with the names of Council members voting for and against, shall be published at least five (5) days prior to its final passage, in The New Times, a newspaper published and circulated in this City. This ordinance shall go into effect at the expiration of thirty (30) days after its final passage.

INTRODUCED on the ____ day of _____, 2024, **AND FINALLY ADOPTED** by the Council of the City of San Luis Obispo on the ____ day of ____, 2024, on the following vote:

AYES:
NOES:
ABSENT:

_____
Mayor Erica A. Stewart

ATTEST:

_____
Teresa Purrington
City Clerk

APPROVED AS TO FORM:

_____
J. Christine Dietrick
City Attorney

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the City of San Luis Obispo, California, on _____.

_____
Teresa Purrington
City Clerk

RESOLUTION NO. _____ (2024 SERIES)

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SAN LUIS OBISPO, CALIFORNIA, MODIFYING THE PREFERENTIAL PARKING PERMIT DISTRICT FOR THE DANA STREET AREA OF THE CITY, AUTHORIZING THE PUBLIC WORKS DIRECTOR TO MAKE TEMPORARY MODIFICATIONS TO THE DANA STREET PARKING DISTRICT

WHEREAS, City Council approved the establishment of the Dana Street Parking District via Resolution number 11068 (2020 Series) on January 14, 2020; and

WHEREAS, on November 7, 2023, the Council of the City of San Luis Obispo directed staff to evaluate the utilization of Dana Street and to return to Council with recommendations that the Public Works Director can authorize and implement; and

WHEREAS, Dana Street occupancy counts from Spring 2024 show parking on the street is underutilized, there is one 16-unit multi-family property located at 421 Dana Street that is not included in the preferential parking district, and commercial permit holders are restricted to daytime use only; and

WHEREAS, the construction of the Cultural Arts District Parking Structure (CADPS) is causing impacts to parking on surrounding streets; and

WHEREAS, the inclusion of all properties on Dana Street and removing existing restrictions on permits will increase parking utilization on Dana Street without adding disruption to residents and businesses on Dana Street; and

WHEREAS, the Council of the City of the City of San Luis Obispo has held a public hearing to consider the modification of the Dana Street Preferential Parking Permit District and has determined that allowing the Public Works Director authorization to make temporary modifications to the Dana Street Parking district will provide better utilization of parking spaces on Dana Street while balancing the effects of the construction of CADPS.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of San Luis Obispo as follows:

SECTION 1. Pursuant to Section 10.36.170 et seq. of the San Luis Obispo Municipal Code, the preferential parking permit district boundaries are hereby established to include all residential addresses on Dana Street and the commercial properties located at the corners of Dana and Nipomo Streets as shown in Exhibit A.

SECTION 2. No vehicles other than emergency vehicles, vehicles with commercial plates that is under the control of a person who does not reside in the area that is providing service for hire to property located in the designated residential parking permit district area, or vehicles having a residential parking permit clearly displayed between the windshield and the rearview mirror shall park on Dana Street from 8:00 a.m. to 2:00 a.m. daily.

SECTION 3. The Public Works Director shall be directed to post the district with signs that clearly state these restrictions.

SECTION 4. The Public Works Director shall issue preferential parking permits as permitted in Section 10.36.220 of the Municipal Code. Permits shall be issued for a year effective September 15th of each year.

SECTION 5. Approval. The Public Works Director or their designee is authorized to make temporary modifications to the Dana Street Parking District until the completion of construction of CADPS including but not limited to adjusting the district boundaries, the eligible properties within the boundary, the number of permits issues to those properties, and imposing or modifying hours-of-use restrictions.

SECTION 6. Notification. Staff will provide advance notification to the district properties to provide an opportunity for input through mailed notices and community meetings prior to implementation of any changes authorized by the Public Works Director.

SECTION 7. Report to Council. Upon completing construction and the opening of the Cultural Arts District Parking Structure, Staff shall review the utilization of the Dana Street District and evaluate the need for a continued residential district on Dana Street and return to Council with recommendations.

SECTION 8. Environmental Review. The California Environmental Quality Act (CEQA) does not apply to the recommended action in this report because the recommended action does not constitute a "Project" under CEQA Guidelines Sec. 15378. The adoption of parking structure and parking permit rates is considered an administrative activity of a government agency that will not result in direct or indirect physical impacts on the environment.

Upon motion of Council Member _____, seconded by Council Member _____, and on the following roll call vote:

AYES:
NOES:
ABSENT:

The foregoing resolution was adopted this _____ day of _____ 2024.

_____
Mayor Erica A. Stewart

ATTEST:

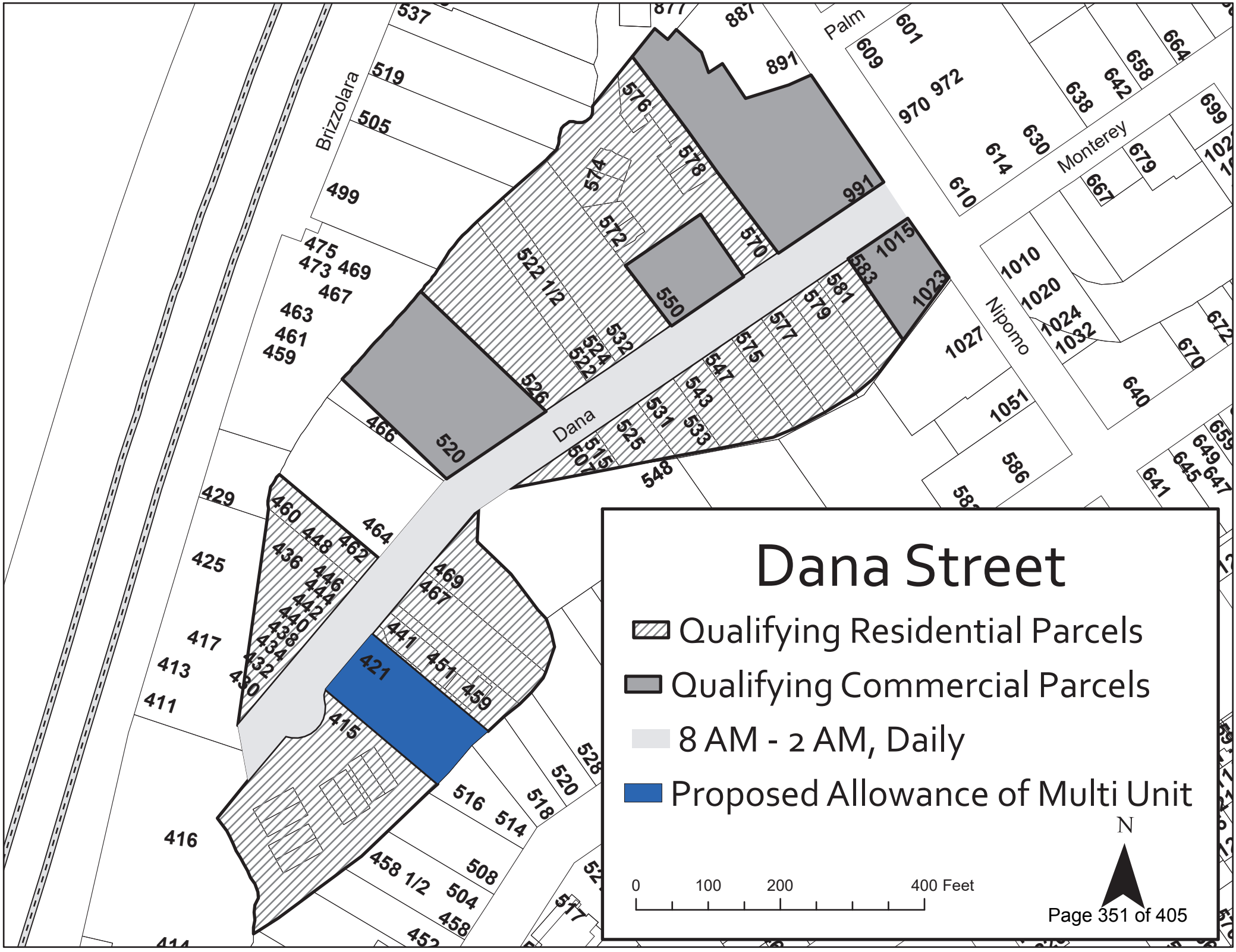
_____
Teresa Purrington
City Clerk

APPROVED AS TO FORM:

_____
J. Christine Dietrick
City Attorney

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the City of San Luis Obispo, California, on _____.

_____
Teresa Purrington
City Clerk


Dana Street
Qualifying Residential Parcels
Qualifying Commercial Parcels
8 AM - 2 AM, Daily
Proposed Allowance of Multi Unit
N
0
100
200
400 Feet
Brizzolara
Palm
Monterey
Nipomo
Dana

DocuSign Envelope ID: AA5E889D-EAF9-401A-B89B-E2E2C40F338F

RECEIVED
APR 25 2024
SLO CITY CLERK

The Soda Water Works
Mary Mitchell, Owner
1015 Nipomo Street, Suite 230
San Luis Obispo, CA 93401
(805) 550-7168
marymitchellre@gmail.com

City of San Luis Obispo
Parking Services
Donna King Manager
1260 Chorro Street, Suite B
San Luis Obispo, CA 93401
(805) 781-7234
dking@slocity.org

RE: Dana Street Parking District Revision Request

Dear Ms. King, April 22nd, 2024

WE, the tenants, and owner of the Soda Water Works request the below changes to The Dana Street Parking District.

1. More parking passes available to Soda Water Works (2 passes/500 sq. ft.)
2. 24-hour passes
3. Commercial pass holders can continue to use proposed 10-hour parking with their passes.

Bullet point #1: Dana Street is underutilized and Soda Water Works businesses need more parking. We have a 2000 sq. ft. unit with 8-10 occupants (Hume Engineering) that receives the same number of passes (2) as our smaller-2 person units of 500 sq. ft. A simple formula based upon size and occupancy would better address the parking needs of our commercial tenants.
Bullet Point #2: The majority of SWW tenants work varied hours including evenings and weekends. * We receive numerous tickets because of this. The SWW engineers arrive at 6 AM and their interns often work at night as they attend Cal Poly during the day. The French Touch Salon, Ray the Barber and Replenish Acupuncture stay open after hours to accomidate clients that work during the day. ALL find it discouraging doing business here because of the time constraints on parking and the artificial shortage of passes **especially** when Dana Street is empty most of the time. We would ALL gladly pay more for 24-hour commercial passes.
Bullet Point #3: The off-street parking adjacent to the Soda Water Works on the Dana side has continuously been used by Soda Water Works businesses and their clients. WE do not object to converting this area to 10-hour meter parking as long as we are free to park there anytime with our passes. We have witnessed an enormous number of tickets being issued to the public who have for years parked there at night to go out to dinner/farmer's market. Perhaps after the parking garage is completed this area can revert to Dana Street use only.

Respectfully submitted:

*Ray Shearer DocuSigned by: Ray Shearer 4/22/2024 | 15:35 PDT AD25318D39BE41D...	583 Dana Street	1000 sq. ft.	Retail/Commercial
*Hume Engineering DocuSigned by: Thom Hume 4/23/2024 | 14:34 PDT 58C003732363469...	1015 Nipomo Street	2000 sq. ft.	Engineering Offices
*AK Klein DocuSigned by: Alicia Klein 4/23/2024 | 16:37 PDT 662B7EFE79894AB...	1015 Nipomo # 200	600 sq. ft.	Office
*Heather Villa DocuSigned by: Heather Villa 4/22/2024 | 17:30 PDT 1A9CF66F61AE440...	1015 Nipomo #210	500 sq. ft.	Office
*Shaun Bobb DocuSigned by: Shaun Bobb 4/22/2024 | 19:13 PDT 1DE13A080B7242E...	1015 Nipomo #220	500 sq. ft.	Office
*Mary Mitchell DocuSigned by: Mary Mitchell Trustee 4/22/2024 | 15:06 PDT AA044F591A20459...	1015 Nipomo #230	500 sq. ft.	Office
*Montgomery & Assoc. DocuSigned by: Derrik Williams 4/22/2024 | 17:09 PDT 8018CDBD5672422...	1023 Nipomo #200	850 sq. ft.	Office
*ETE Engineering DocuSigned by: 4/22/2024 | 16:54 PDT 82175580FF46496...	1023 Nipomo #210	1200 sq. ft.	Office
*The French Touch DocuSigned by: Patricia Kaspar 4/22/2024 | 18:15 PDT A3C680B40E3D498...	1023 Nipomo #200	1000 sq. ft.	Retail/Commercial
*Replenish DocuSigned by: 4/23/2024 | 09:49 PDT 60A506E962E648E...	1023 Nipomo #210	600 sq. ft.	Retail Commercial
*Christian Science Laura Devati	1023 Nipomo #220	600 sq. ft.	Retail/Commercial
*Cinda Fox DocuSigned by: Cinda Fox 4/22/2024 | 17:35 PDT 39248A623C4049C...	1023 Nipomo # 50	600 sq. ft.	Office
*Swinerton	1023 Nipomo #75	1000 sq. ft.	Office

HUME
ENGINEERS

P.O Box 15238
San Luis Obispo, CA 93406
805-543-6311 mail@thengineers.com

April 24, 2024

Donna King
Parking Program Manager
Parking Services
1260 Choro St. Ste. B
San Luis Obispo, CA 93401

Dear Donna King,

I have recently become aware of a study that claims the parking on Dana St. is underutilized, and in response, the City is considering 10hr parking meters in the area directly in front of, and across the street from our office located at 1015 Nipomo St. Ste 100. This is currently where the employees of my small business park, along with the other tenants of the Soda Water Works buildings.

Currently, we do not even have enough parking passes for all our staff. Management regularly wakes up early to get a parking spot on Nipomo St. near Mission high school, or bike to work when the weather allows, so that employees with longer commutes can use the passes. We have also paid for our interns, that go to Cal Poly, to use metered parking on Nipomo St. when there were no passes left or any free parking options for them. I ask the City to consider allowing tenants of the Soda Water Works building to continue to use their passes for Dana St. where the 10hr meters are proposed so that I can continue to provide reliable parking for my employees. We would also greatly benefit from additional permits considering our office typically employs 8-10 people and we currently only have 2 permits for our 2000 sqft. suite. Our permits are also only in effect on weekdays, from 8am -6pm, despite our employees often needing or wanting to work later or on the weekends. Myself, and others, have walked out to see a parking ticket on our cars at 6:05pm. These limitations have a negative effect on all the small businesses in the Soda Water Works. 24hr passes would much better accommodate the varied shifts that our office actually operates on.

I hope Parking Services can see the value small businesses bring to downtown and understand that the office space we currently occupy was empty for years due to the increase in remote work. We enjoy being downtown and frequently patronize the other small business near us, but it is becoming harder and harder for us to keep our office in SLO due to parking and other rising costs. Please consider our needs when deciding how to better utilize the parking on Dana St.

Sincerely,

Thom Hume

Parking Services

1260 Chorro Street, Suite B, San Luis Obispo, CA 93401
805.781.7230
slocity.org

<<Name>>
<<Address>>
<<City, St ZIP>>

July 8, 2024

Subject: Notification of Public Meeting
Proposed Changes to the Dana Street Preferential Parking District

Attention Resident or Property Owner,

The City of San Luis Obispo City Council will be discussing proposed changes for the Dana Street Preferential Permit Parking District at a Public Hearing. Staff will be introducing an Ordinance amending Title 10 of the Municipal Code to remove exceptions for the Dana Street Residential District and to allow exceptions to be approved via Resolution. Additionally, the Public Works Director will be authorized to approve and implement temporary modifications to the Dana Street District via Resolution.

Examples of temporary modifications that may be authorized by the Public Works Director based on utilization and needs of the district and surrounding area include:

- Allowing 421 Dana Street to participate in the district
- Removing the daytime use restriction for commercial permit holders
- Issuing any number of commercial permits to participating commercial properties
- Establish a timed overlay zone which could allow residents, visitors, and employees who are not a part of the designated district the ability to park on Dana Street for a limited time during restricted hours.

We encourage all residents to attend this meeting so Council can receive feedback from all residents and businesses on Dana Street. The scheduled date, time, and location are listed below.

DATE: **Tuesday, July 16, 2024**

TIME: **5:30 p.m.**

LOCATION: **Council Chambers, 990 Palm St., San Luis Obispo, CA 93493**

Council Agenda Report

Department: Public Works
Cost Center: 5201
For Agenda of: 7/16/2024
Placement: Study Session
Estimated Time: 120 Minutes

FROM: Matt Horn, Public Works Director
Prepared By: Alex Fuchs, Mobility Services Business Manager

SUBJECT: STUDY SESSION: SLO TRANSIT SHORT-RANGE TRANSIT PLAN UPDATE STUDY SESSION

RECOMMENDATION

Receive a presentation on the progress of SLO Transit's Short-Range Transit Plan update, including service alternatives analysis, provide direction regarding which service alternatives to incorporate into the plan update, and provide direction to staff to return in fall 2024 with a draft plan for Council's review.

POLICY CONTEXT

Federal statutes require that the San Luis Obispo Council of Governments (SLOCOG) develop and periodically update a long-range Regional Transportation Plan (RTP) and a Transportation Improvement Plan. The Transportation Improvement Plan is referred to in the San Luis Obispo region as the Federal Transportation Improvement Plan (FTIP). The FTIP implements the RTP through the programming of federal funds to transportation projects identified in the RTP. SLOCOG requires each transit agency receiving federal funding through the FTIP to prepare and adopt a Short-Range Transit Plan (SRTP) every five years.

Policy 3.1.2 (City Bus Service) of the City's General Plan Circulation Element states that the City will improve and expand bus service to make the system more convenient and accessible for everyone. The policy also states that the City will attempt to maintain and improve all transit standards identified in the City's SRTP. Program 3.2.1 (Transit Plans) of the City's General Plan Circulation Element states that the City will continue to implement the SRTP and coordinate with SLOCOG on implementing the RTP. Program 3.2.3 (Commuter Bus Service) of the City's General Plan Circulation Element states that the City will work with the San Luis Obispo Regional Transit Authority (RTA) to maintain and expand commuter bus service to and from the City of San Luis Obispo during peak commute periods consistent with the SRTP and the RTP.

REPORT-IN-BRIEF

Every five years, the City is required to complete an update to its Short-Range Transit Plan (SRTP). The SRTP serves as SLO Transit's business plan for the five-year period and provides operating and capital project recommendations to help achieve the City's transportation goals. The City and San Luis Obispo Regional Transit Authority (RTA) kicked off a joint SRTP update in September 2023. The update is roughly at the halfway mark with the completion of the fourth of eight working papers. Working Paper 4 analyzes service alternatives to better meet current and future community needs. Staff is requesting Council review the service alternatives and provide direction as to which should be incorporated in the draft SRTP.

DISCUSSION

Background

The previous Short-Range Transit Plan (2016 SRTP) was adopted in September 2016 and provided capital and operational recommendations for Fiscal Years (FYs) 2017 through 2021. The 2016 SRTP was the first joint SLO Transit and RTA plan update work effort. Multiple recommendations from the 2016 SRTP were implemented by the City, including implementation of the bi-directional fixed route system, creation of the Laguna Tripper service, later service on weekdays during the academic year, and an increase in pass and fare rates. The current SRTP update was scheduled to begin in 2020 but was delayed due to the COVID pandemic and staff turnover in the City's Transit program.

In June 2023, RTA released a Request for Proposals (RFP) for a joint SRTP update for RTA and SLO Transit. RTA received one bid response from LSC Transportation Consultants, Inc. (LSC)[1]. LSC has extensive experience developing transit plans across the western United States and is the same firm that completed the 2016 SRTP. In September 2023, RTA executed an agreement with LSC for the joint SRTP update. LSC's approach to the work is projected to take 15 months and includes development of eight Working Papers that will be compiled into a draft plan. The Working Papers and their contents are outlined below.

Working Paper 1 – Overview of Transit Services
Working Paper 2 – Goals, Objectives, and Standards
Working Paper 3 – Service and System Evaluation
Working Paper 4 – Service Alternatives Analysis
Working Paper 5 – Operating Budget and Financial Projections
Working Paper 6 – Marketing Plans and Goals
Working Paper 7 – Capital Improvement Plans
Working Paper 8 – Joint Coordination between SLO Transit and RTA Analysis

[1] LSC Transportation Consultants, Inc. Joint SRTP Proposal

So far, LSC has produced Working Papers 1, 2, 3, and 4 and is on track to provide a full draft plan for staff's review in September 2024. Due to the size of the documents, links to Working Papers 1[2], 2[3], and 3[4] are provided in the footnotes of this report. Working Paper 4 – Service Alternatives Analysis – is included as Attachment A to this report. Staff anticipates returning to Council with a draft plan in November 2024 and a final plan for adoption in January 2025. The adopted plan's recommendations will be incorporated into the City's 2025-27 Financial Plan.

Summary of Working Paper 1 – Overview of Transit Services

Working Paper 1 provides an overview of the existing services, fare structure, and capital assets (fleet and facilities) for SLO Transit and for RTA. LSC also provides an overview of other public transit services in the region, including brief discussions of the various public transportation, nonprofit transportation, and private for-profit transportation providers. In Appendix A of the Working Paper, LSC summarizes regional, local, and agency specific plans and studies completed since the 2016 SRTP or currently underway.

Summary of Working Paper 2 – Goals, Objectives, and Standards

An important element in the success of any organization is a clear and concise set of goals and objectives, as well as the performance measures and standards needed to attain them. Working Paper 2 compares SLO Transit's FY 2022-23 performance against existing performance standards, analyzes peer transit agencies to inform development of revised performance standard recommendations, and then presents recommendations for SLO Transit's goals, objectives, and standards.

In the past two SRTPs, SLO Transit's performance measures were tied directly to the performance of peer agencies. Given the City's mode split objective of 7 percent of trips by transit by 2030 and 12 percent of trips by transit by 2035, Working Paper 2 recommends no longer linking SLO Transit's performance standards to peer transit agencies. Instead, in this SRTP, peer agency's performance will be used as a gauge to understand whether SLO Transit is performing within industry norms. Peer agencies were selected using three main criteria: university campus enrollment, city population, and number of buses in maximum fixed route service. Based on these criteria, Bloomington-Normal, IL; Pocatello, ID; Bowling Green, KY; Flagstaff, AZ; St. Cloud MN; and Pueblo, CO were selected as peer agencies.

Working Paper 2 recommends establishing a minimum standard and a higher, target maximum standard for the following key performance measures: productivity (passengers per vehicle revenue hour), cost-effectiveness (operating cost per passenger trip), and cost-efficiency (operating cost per vehicle revenue hour). These target standards are based on FY 2015-16 when ridership was at its highest point at just over 1.2 million boardings.

[2] Working Paper 1 – Overview of Transit Services
[3] Working Paper 2 – Goals, Objectives, and Standards
[4] Working Paper 3 – Service and System Evaluation

A significant increase in ridership is needed to achieve the City's mode split objectives while maintaining the required Farebox Recovery Ratio (FFR) of 20 percent. Working Paper 2 recommends minimum and target standards for key measurements to track progress toward meeting the mode split objectives while also meeting SLO Transit's FFR requirement. Below are the recommended measures for productivity, cost-effectiveness, and cost-efficiency standards.

- **Passengers per Vehicle Revenue Hour** – a minimum of 11.5 based on the peer average and a target standard of 36 based on ridership in FY 2015-16.
- **Operating Cost per Passenger Trip** – set a maximum of $11.23 based on the peer average and a target standard of $3.85 based on current system costs and ridership in FY 2015-16.
- **Operating Cost per Vehicle Revenue Hour** – set a maximum of $145 based on FY 2022-23 actuals and a target standard of $137.04 based on vehicle revenue hours and miles provided in FY 2015-16.

Productivity for transit systems is measured by the number of passengers transported per vehicle revenue hour. Based on FY 2015-16 ridership, LSC recommends SLO Transit maintain a minimum of 11.5 passengers per revenue hour with a target of 36 passengers per revenue hour. Cost-effectiveness is measured by dividing total operating costs by the total number of passengers trips taken annually. For SLO Transit, LSC recommends a maximum of $11.23 per passenger with a target of $3.85 per passenger. Cost-efficiency is measured by dividing total operating costs by the total number of hours when services are provided. LSC recommends a maximum of $145 per hour with a target of $137.04 per hour. These three performance measurements are useful to monitoring the impacts of service changes and whether the service changes are helping SLO Transit to increase ridership and meet the City's mode split objectives more effectively and efficiently.

Working Paper 2 includes other recommended changes to SLO Transit's performance standards based on the recently completed Transit Innovation Study. These recommended changes include increasing service frequency from 30 minutes at peak and 60 minutes at off-peak to 15 minutes at peak and 30 minutes at off-peak, expand fare and pass options, provide lighting at 100 percent of bus stops, and expand span of service[5] hours on weekends. A full list of recommended performance standards can be found in Table 4 of Working Paper 2.

<u>Summary of Working Paper 3 – Service and System Evaluation</u>

Working Paper 3 is a key document in the preparation of the SRTP update as it identifies and analyzes existing and future public needs for transit services. The document covers demographic and economic factors related to transit demand, evaluates ten years of SLO Transit's operations and performance data, and the appendices present data from the onboard survey, community survey, and stakeholder workshop feedback.

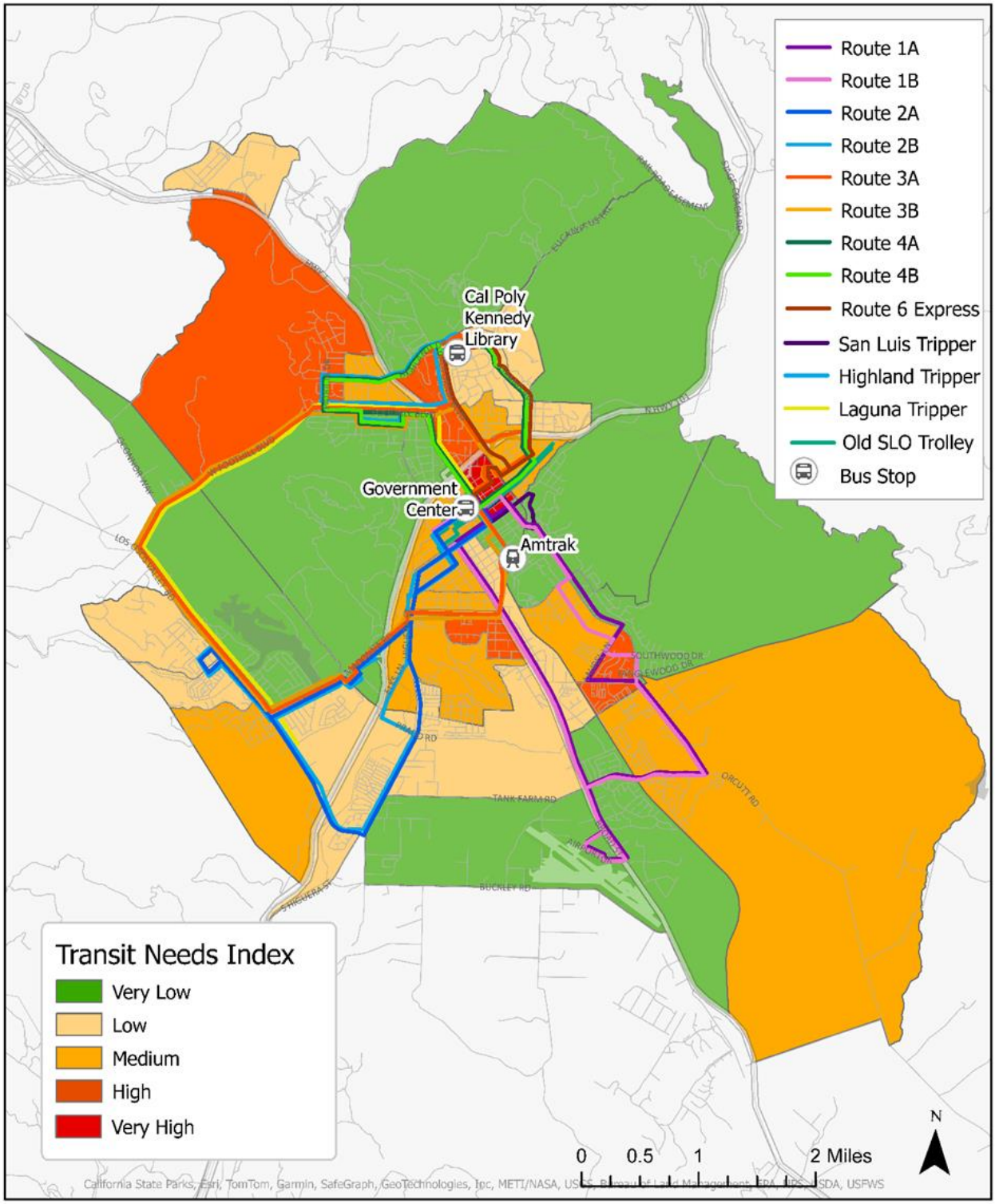
[5] Span of Service means the number of hours during a day that transit service is provided.

Transit Needs Index Assessment

LSC performed a Transit Needs Index (TNI) assessment as part of the demographic and economic data analysis. A TNI shows which areas have the greatest relative need for transit services based on the concentration of transit-dependent residents. The transit-dependent individuals are typically considered to comprise youths, senior adults, persons with a disability, low-income persons, and persons who live in zero-vehicle households. All these areas are provided with some level of services by SLO Transit.

Census block groups encompassing the Downtown area and south-central San Luis Obispo have the overall highest TNI ranks, scoring either high or very high for most of the demographic categories considered. It makes sense that the Downtown area ranks very high on the TNI since most of the residential areas lack dedicated parking and/or are considered low-income housing like the Wineman Apartments building. Block groups with moderate transit need, based on the TNI, are found in northeastern, eastern, and southeastern San Luis Obispo, along S. Higuera Street, Foothill Boulevard, and Highland Drive, as well as near the southern portion of the Cal Poly campus. Figure 1 shows the TNI ranks for the census block groups that make up the City.

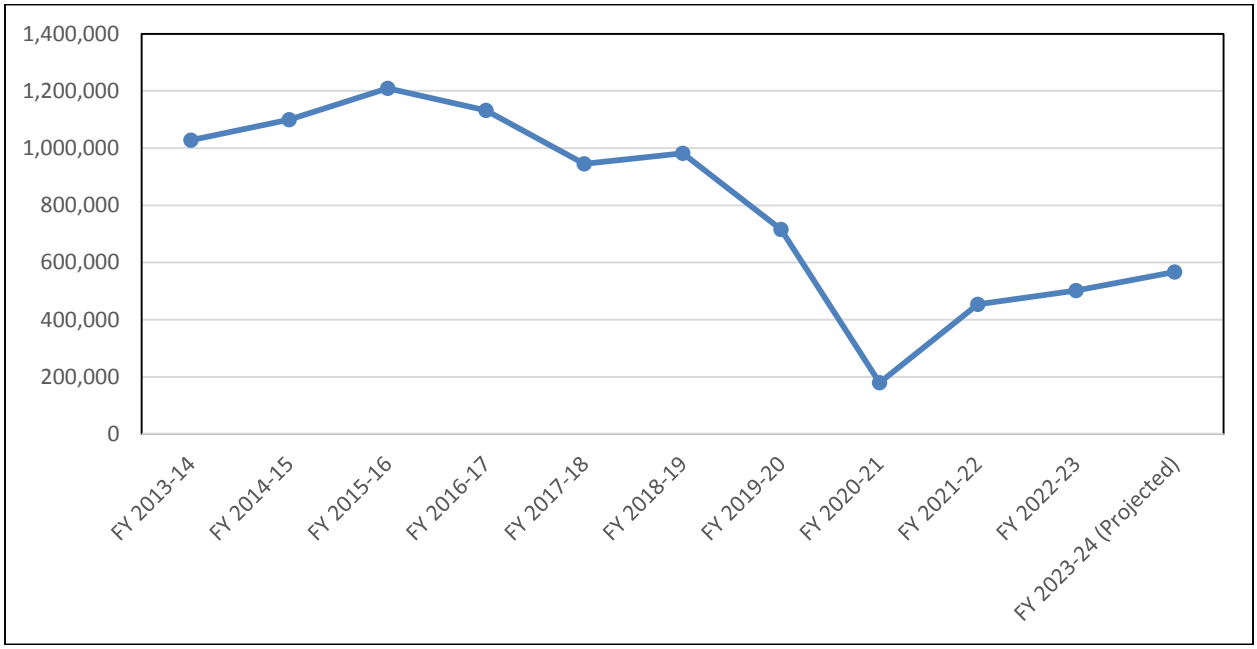
Figure 1 - City of San Luis Obispo Transit Needs Index Map



Ten-Year Trends Analysis

LSC's ten-year trend analysis of SLO Transit's operations reveals the significant impact the COVID pandemic and the nationwide driver shortage that followed had on ridership and service levels. Ridership peaked in FY 2015-16 with more than 1.2 million boardings then proceeded to decline slightly until FY 2018-19 with a significant decline in FY 2019-20 and FY 2020-21 due to the pandemic. Ridership recovered quickly in FY 2021-22 and FY 2022-23 but is still less than half when compared to FY 2015-16 data as shown in Figure 2.

Figure 2 - SLO Transit Annual Ridership (FY2013 - FY 2024)



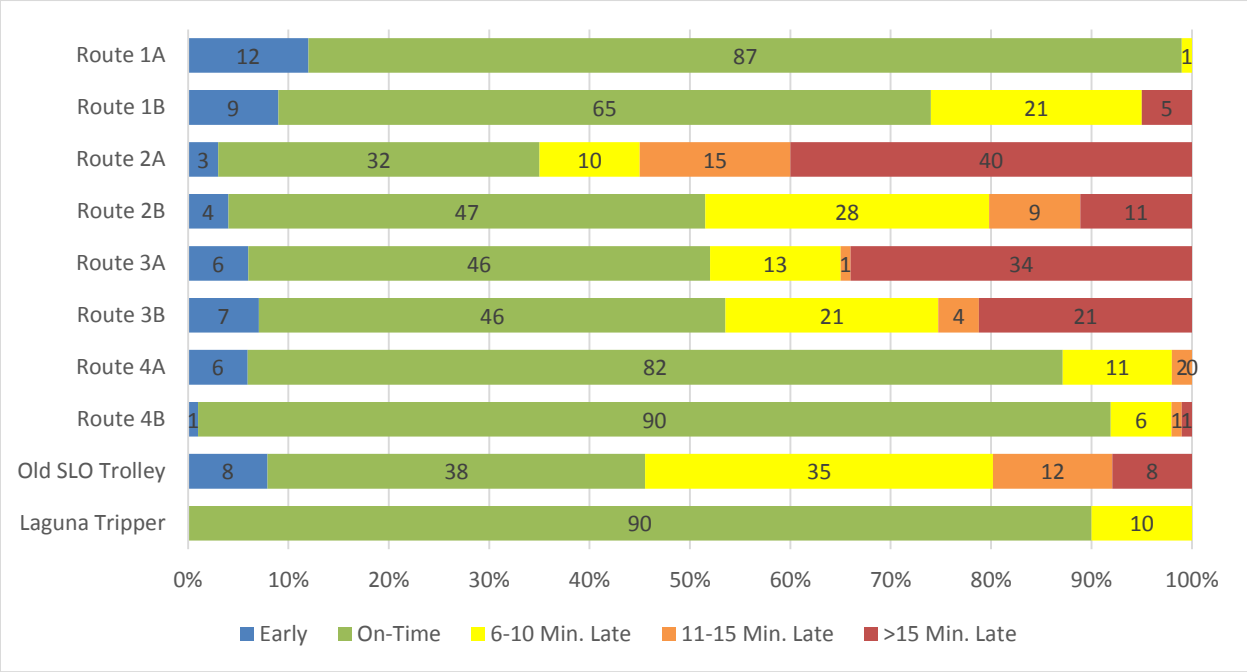
LSC's trend analysis also shows that operating costs have increased 31 percent over the past ten years, which is similar to increase in the Consumer Price Index (CPI) over the same period. This indicates that SLO Transit's operating costs have not increased more than inflation. Local revenue, which includes cash fares and funding from the Cal Poly Transit Service Agreement, has only increased by 14 percent over the past ten years. Service miles and service hours decreased by 14 percent and 6 percent, respectively, over the ten-year period. The reduction in miles and hours is due to service reductions made during the pandemic and the slow service restoration that followed due to driver shortages. As of the writing of this report, SLO Transit still has several services suspended including the San Luis Tripper, Highland Tripper, and Route 6 Express.

FY 2022-23 Operations and Performance

In FY 2022-23, Route 4A had the greatest ridership followed by Routes 3A, 2A, and 4B which is relatively consistent with prior years' ridership trends. Higher ridership tends to be observed on the A routes versus B routes because the A routes operate more days of the week and for longer hours. Services oriented toward Cal Poly and K-12 students (Routes 3 and 4 and the Laguna Tripper) were the most productive and cost-efficient when comparing the proposed performance standards discussed in Working Paper 2.

On-time performance was also recorded as part of the October 2023 onboard surveying efforts. Based on the data collected and presented in Figure 3 in this report, Routes 1A, 4A, 4B, and the Laguna Tripper had the best on-time performance as they were on-time for 80 percent or more of the timepoint stops. Route 2A and the Old SLO Trolley had the largest proportions of timepoints for which the bus left late. Routes 2A, 3A, and 3B had the largest proportions of timepoints for which the bus left more than 15 minutes late. The data suggests that on-time performance is a challenge for SLO Transit, especially on Routes 2 and 3. On-time performance is an important aspect of service quality and reliability and the SRTP update will consider service modifications to improve on-time performance.

Figure 3 - On-Time Performance by Route



Since the peak of the pandemic in FY 2020-21, SLO Transit systemwide performance has slowly improved with the return of both local and Cal Poly ridership. However, it is likely that significant service modifications will be needed to increase SLO Transit ridership to the levels necessary to achieve the City of San Luis Obispo's adopted transit mode split objectives. LSC's performance analysis also reveals service inefficiencies that should be addressed to increase reliability and the community's confidence in transit as a viable transportation option. Service alternatives meant to address the City's mode split objective and improve service performance based on the data collected by LSC were analyzed and compiled into Working Paper 4.

<u>Summary of Working Paper 4 – Service Alternatives Analysis</u>

Preparation of service alternatives is one of the major components of any SRTP. The data and feedback documented in the first three working papers is used to develop service alternatives that will best address the current and future needs of the community. Many of the service alternatives analyzed in Working Paper are focused on increasing

ridership to help achieve the City's transit mode split objective. The impacts of the alternatives are presented separately in this working paper, but the combined impacts will be included in forthcoming Working Paper 5 – Operating Budget and Financial Projections and Working Paper 7 – Capital Improvement Plans.

The service alternatives are organized by the type of change proposed into four categories: (1) changes to service frequency, (2) changes to service hours, (3) Microtransit service, and (4) routing and service reestablishment alternatives. The various alternatives are then compared using the new performance standards recommended in Working Paper 2. Ridership and operating costs impacts are estimated based on FY 2022-23 actuals and FY 2023-24 projected figures.

Service Frequency Alternatives

The Transit Innovations Study recommended increasing service frequency to improve service quality and increase ridership. More frequent service was one of the most requested improvements during the onboard passenger survey (42 percent of respondents). The options discussed demonstrate the wide range of potential impacts that can result from increasing service frequency to differing extents. Table 1 summarizes the service frequency alternatives and potential impacts.

Service frequency is typically measured by the number of buses per hour or by time between buses on a particular route. This measurement is often referred to as headways[6]. For example, SLO Transit's 1A Route has one bus running per hour, so this route is considered to have hourly headways. Doubling service frequency on Route 1A would increase the number of buses running per hour and reduce the time between buses to 30-minute headways. Several of the service alternatives scenarios analyzed include doubling frequency on all routes or on select routes including scenarios where frequency is double for the entire service day or for portions of the service day.

[6] Headway means the average interval of time between vehicles moving in the same direction on the same route

Table 1 - Service Frequency Alternatives

Service Alternative	Status Quo[7] Ridership	Changes in Annual Service					
		Ridership	Service Hours	Service Miles	Marginal Operating Cost	Cash Fares	Add'l Buses Needed
Increase Route 4 Service Frequency During Academic Year							
Route 4A (8:00 am to 10:00 am)	152,800	4,200	300	2,300	$ 20,200	$ 300	1
Route 4B (3:00 pm to 5:00 pm)	70,900	3,900	300	2,100	$ 19,700	$ 300	1
Double Service Frequency on Routes 1, 2, 3, and 4 (A & B)							
Full Service Day[8], Year-Round	574,100[9]	208,300	33,500	347,000	$ 2,455,000	$ 83,500	8
8:00 am to 6:00 pm, Weekdays, Year-Round	574,100	119,700	19,600	234,200	$ 1,505,800	$ 48,000	8
Full Service Day, Weekdays, Academic Year	574,100	153,600	20,900	231,700	$ 1,565,500	$ 61,600	8
Double Service Frequency on Routes 1A, 2A, 3A, 4A							
Full Service Day, Weekdays, Academic Year	383,700	89,600	11,300	133,800	$ 865,400	$ 35,900	4
Double Service Frequency on Routes 3A, 3B, 4A, 4B							
Full Service Day, Weekdays, Academic Year	384,100	101,200	11,600	136,100	$ 885,600	$ 40,600	4

Route 4 is the most popular service and provides direct connection between Cal Poly, the Foothill Blvd. area, and the downtown. Increased service frequency on Route 4 would primarily benefit Cal Poly students, faculty, staff, and general riders that access the campus. SLO Transit would likely see a marginal increase in cash fares since Cal Poly riders are covered under a Transit Service Agreement (TSA) with Cal Poly. The current TSA term is from July 1, 2024, through June 30, 2027, with an annual payment of $750,000 to the City for services provided.

The TSA allows for the City or for Cal Poly to request reopening the agreement if (1) Cal Poly ridership increases or decreases by 10% or more in a year or (2) if the City increases the fare box rate of 25% over the duration of the agreement. Changes to Cal Poly ridership resulting from any service alternatives will be monitored to see if this triggers the ability to reopen the agreement for further negotiations.

LSC analyzed five different scenarios in which service frequency is doubled across select or all fixed routes at different periods throughout the year. Doubling the frequency would result in service every 25 to 30 minutes and would directly address the top recommendation of the Transit Innovation Study. However, doubling service as analyzed under all five scenarios would also require significant operating and capital investments. Operating costs would increase between $865,400 and $2.45 million annually and capital costs would require purchase of four to eight additional buses.

[7] Based on FY 2023-24 actual ridership through Mach 31, 2024 projected through the end of the year
[8] Full Service Day means the total number of hours a day that transit service is provided.
[9] System-Wide

Span of Service Alternatives

The next set of alternatives focus on the hours that transit services operate also referred to as "span of service." Passengers requested multiple changes to the span of service during the onboard passenger survey; the most requested service improvements were later evening service (54 percent of respondents), more frequent service (42 percent), additional Saturday service (39 percent), and additional Sunday service (32 percent). Table 2 summarizes the span of service alternatives and potential impacts.

Table 2 - Span of Service Alternatives

	Status Quo	Changes in Annual Service					
Service Alternative	**Ridership**	**Ridership**	**Service Hours**	**Service Miles**	**Marginal Operating Cost**	**Cash Fares**	**Add'l Buses Needed**
Extend Weekday Evening Service on A Routes							
Extend Service to 12:00 am, Academic Year	383,700	5,100	1,000	10,900	$ 74,500	$ 2,000	0
Extend Service to 10:00 pm, Non-Academic Year	383,700	2,200	700	7,000	$ 50,700	$ 900	0
Expand Service on B Routes							
Operate B Routes on Weekends, 7:45 am to 8:00 pm	178,700	39,600	3,200	46,100	$ 263,100	$ 15,900	0
Operate 3B and 4B on Weekends	178,700	29,400	1,600	25,300	$ 136,700	$ 11,800	0
Extend Routes 1B and 2B until 10:00 pm, Weekdays, Academic Year	178,700	4,000	1,400	14,500	$ 102,600	$ 1,600	0
Provide Academic Year Service Levels Year-Round							
	574,100	16,300	2,300	26,400	$ 174,300	$ 6,500	0

To provide residents with a later-night transit option, two alternatives for extending service on Routes 1A, 2A, 3A, and 4A were considered. Currently, the last departures on weekdays during the academic year on the A Routes occur at 9:15 PM (Routes 1A and 2A), 10:15 PM (Route 3A) and 10:30 (Route 4A). Based on late evening ridership on transit services at other California universities, this additional service is estimated to increase ridership by 5,100 boardings per year. This alternative would not require an additional bus to operate, but it would increase annual operating cost by $80,200.

During the non-academic year, the last runs start at 7:15 PM on Routes 1A, 2A, and 3A and 7:30 PM on Route 4A. Extending service until 10:00 PM would require operating two additional runs on Routes 1, 2, and 3, and three additional runs on Route 4. Based on ridership from comparative agencies during academic and non-academic periods, these additional runs would generate 2,200 passenger-trips per year, increase annual operating costs increased by $50,700, and would result in a minimal increase in cash fare revenue. No additional buses would be required.

Three route B service expansion scenarios were analyzed including operation of all B routes on the weekends, operation of only Routes 3B and 4B on the weekends, and extending Routes 1B and 2B on weekdays. Both scenarios analyzing operation of the B routes on weekends is estimated to result in significant increases to ridership but also to service miles and to operating costs. Extension of Routes 1B and 2B on weekdays is estimated to slightly increase ridership but would have a significant impact on operating costs. None of the three scenarios require additional buses since the existing fleet is sufficient to provide the service.

Lastly, Cal Poly plans to transition to a semester system beginning Fall 2026 which means class sessions would begin earlier and end later than under the current quarter system. There may also be more opportunities for students to attend summer classes through a semester system. LSC analyzed the potential impacts of providing academic service levels year-round. This scenario would increase annual vehicle-hours and annual vehicle-miles but also increase ridership and cash fares. Annual operating costs would be increased by $174,300 however no additional buses would be required. This option also has the benefit of providing more consistent year-round driver schedules, which has the potential to increase driver retention.

As stated above, any service alternatives that result in an increase to Cal Poly ridership would allow the City to request a reopening of the TSA to further negotiations. Staff already tracks Cal Poly ridership and any implemented service changes would be easy to monitor.

Microtransit Service Alternatives

Microtransit utilizes the app-based technology developed for transportation network companies like Uber and Lyft to provide real-time, on-demand transit service. In recent years, many public transit agencies have begun using Microtransit to provide transit coverage over areas not served efficiently by fixed routes. Microtransit has also been found to be effective in areas with high demand for short trips. Most Microtransit passengers request rides and pay fares through an app or over the phone. Table 3 summarizes the Microtransit service alternatives and potential impacts.

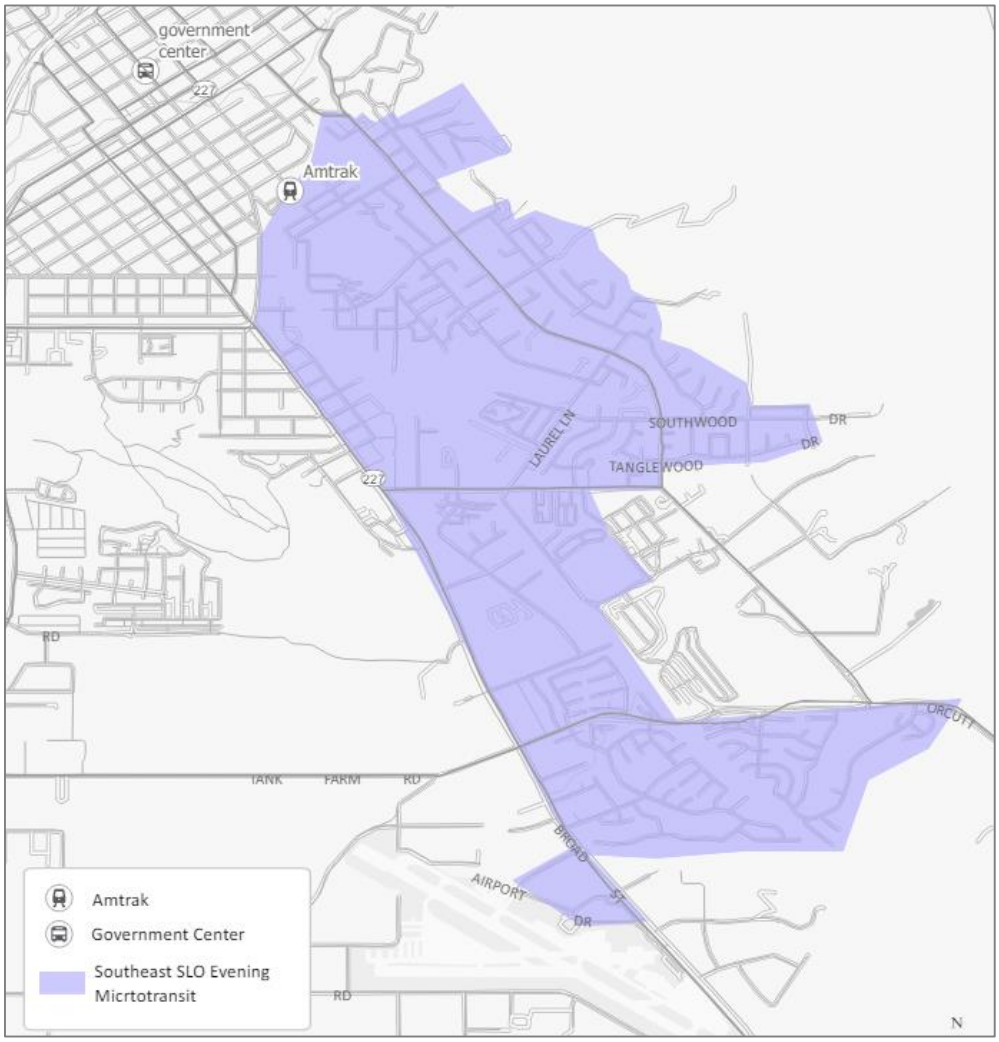
Table 3 - Microtransit Service Alternatives

Service Alternative	Status Quo Ridership	Changes in Annual Service: Ridership	Service Hours	Service Miles	Marginal Operating Cost	Cash Fares	Add'l Buses Needed
Evening Microtransit, Southeast SLO							
7:00 pm to 10:00 pm, weekdays, Year-Round	55,900	100	500	8,800	$ 33,600	$ 200	2
Late Night Microtransit, Citywide							
10:00 pm to 12:00am, Weekdays, Academic Year	574,100	4,700	1,400	17,500	$ 122,800	$ 11,100	3
10:00 pm to 12:00am, 7 Days/Week, Academic Year	574,100	7,100	1,700	21,625	$ 160,600	$ 11,100	3

As part of this alternative, replacing Route 1A with Microtransit service between the hours of 7:00 PM and 9:00 PM on a year-round basis was reviewed. Routes 1A and 1B serve residences in southeast San Luis Obispo as well as the San Luis Airport. Figure 4 presents an example Microtransit service in the southeast service area of the City. In order to serve the level of transit demand currently seen on Route 1A during the evening hours, two vehicles would be needed to provide service.

This would cost an additional $33,600 annually in operating costs (including the costs of the annual technology license). As SLO Transit does not currently have small vehicles in their fleet, two vans would also need to be procured to operate this service. There would be a small increase in ridership over the existing Route 1A evening ridership by around 100 trips per year but, as development progresses along Tank Farm Rd., Microtransit service area could be expanded. However, as demand for service increases, another vehicle would be required, which would further increase costs.

Figure 4 - Microtransit in Southeast Service Area



Microtransit could be provided to the entire city as a “Late Night” service. SLO Transit services are not available past 11:00 PM and only Routes 3 and 4 operate this late during the academic year. As part of this alternative, Microtransit would be available between 10:00 PM and midnight during the academic year. This alternative assumes that three vans would be used for an annual operating cost between $122,800 and $160,600 annually depending on the days of service. Ridership was estimated by reviewing ridership by hour on other Microtransit services and would result in modest increases.

If implemented, staff recommends that Microtransit be provided as a one-to-two-year pilot program once the necessary vehicles and management software is obtained. A pilot program could be implemented by leasing vehicles and associated software from a transit service provider so that the City does not have to buy vehicles. The current agreement with Transdev, the City’s transit operations and maintenance services provider, expires on June 30, 2025 and allows for a one-year extension through June 30, 2026. An option for a Microtransit pilot program can be included in the next Request for Proposals for transit operations and maintenance services.

Route Realignment and Service Reestablishment Alternatives
LSC analyzed routing realignments based on the performance data and survey feedback collected and analyzed as part of Working Paper 3. LSC also analyzed impacts of reestablishing tripper and express services provided prior to the onset of the pandemic. SLO Transit plans to reestablish these services and this analysis provides insight into potential revenue, costs, and ridership changes associated with the reestablishment. Table 4 summarizes the route realignment and service reinstatement alternatives and potential impacts.

Table 4 – Route Realignment and Service Reinstatement Alternatives

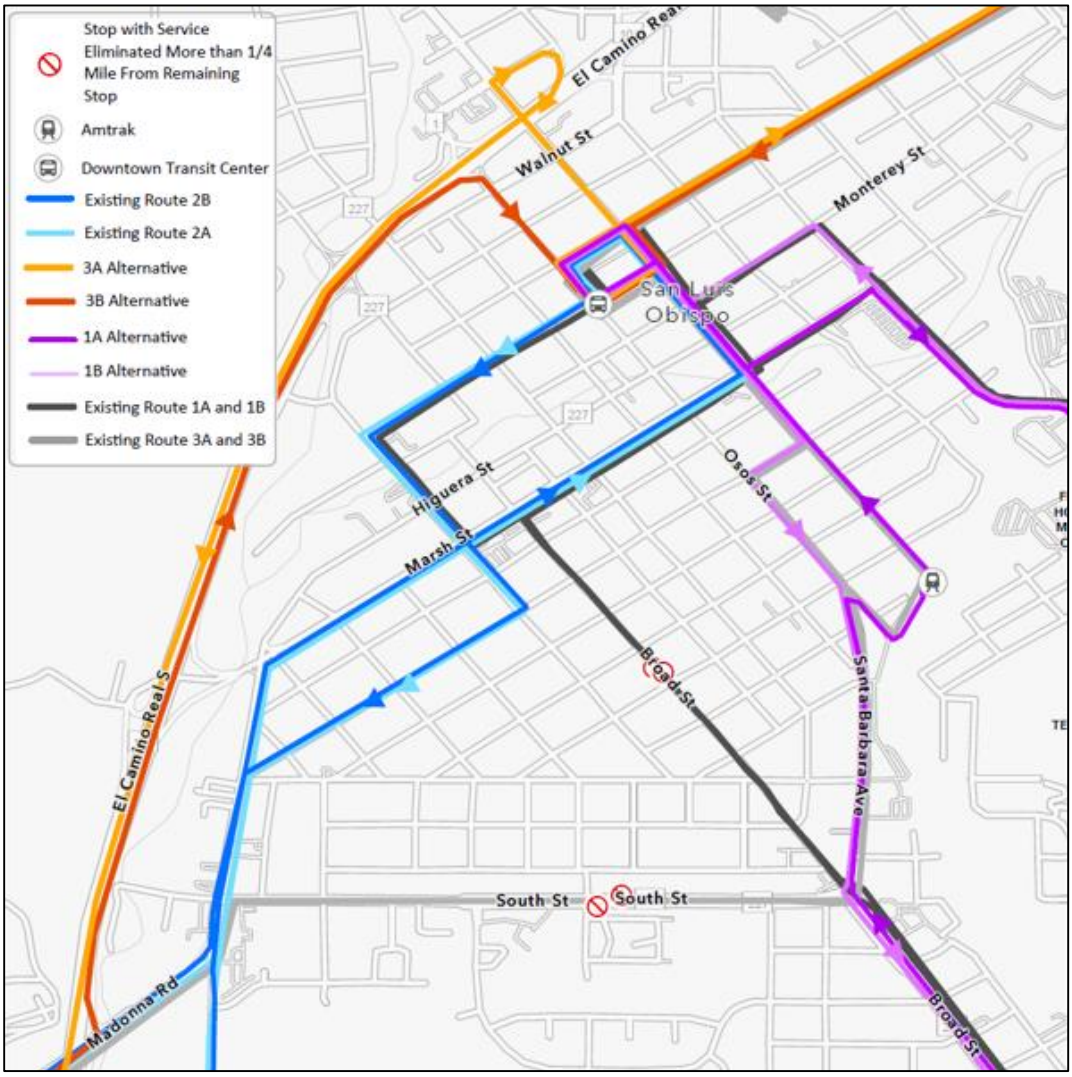
	Status Quo	Changes in Annual Service					
Service Alternative	**Ridership**	**Ridership**	**Service Hours**	**Service Miles**	**Marginal Operating Cost**	**Cash Fares**	**Add'l Buses Needed**
Revise Route 1 and 3 in Downtown Area							
	236,300	17,700	0	-2,500	-$ 5,600	$ 9,600	0
Reinstate Route 6 Express							
	0	2,200	100	1,000	$ 7,200	$ 900	1
Reinstate SLO Tripper							
	0	7,100	280	1,430	$ 17,200	$ 2,800	1
Reinstate Highland Tripper							
	0	6,600	230	2,430	$ 17,000	$ 2,600	1

Working Paper 3 demonstrated that on-time performance is a major issue for most of SLO Transit's routes. LSC considered several routing realignments to Routes 1A, 1B, 2A, 2B, 3A, and 3B to improve on-time performance. LSC determined the best scenario to improve on-time performance would be to realign Routes 3A and 3B onto US 101 between the Downtown Transit Center and the Madonna Street interchange and shift Routes 1A and 1B onto the exiting Routes 3A/3B routes between Broad Street/High Street and the Downtown Transit Center. Figure 5 below shows the proposed realignments of Routes 1 and 3 and their existing routes.

Service would be fully eliminated from a total of four existing stops and reduce service between the downtown Transit Center and central downtown San Luis Obispo by rerouting Route 1 out of the area. However, as the current Route 1 schedule is very close to the Route 2 schedule in both directions, this would not significantly reduce the convenience of transit service. This option would also reduce the travel times between southwest San Luis Obispo and the Downtown Transit Center.

Improving the dependability of Route 3 would also improve the connections to other routes at the Transit Center. Overall, the proposed realignment would increase ridership, decrease operating costs, and generate additional cash fare revenue. No additional buses would be required.

Figure 5 - Routes 1 and 3 Realignment



Reinstatement of Route 6 Express would provide direct connection between Cal Poly and downtown on Famer's Market nights. Reinstatement of the tripper services would provide direct service to the high school via the SLO Tripper and service between Cal Poly and the Foothill Blvd neighborhood. The three services would result in modest increases to ridership and to operating costs. Operating costs for reinstatement of these services is already included in the Transit Fund's annual operating budget.

Service Alternatives Preliminary LSC and Staff Recommendations

An analysis using the proposed performance standards identified in Working Paper 2 show that the following service alternatives have the greatest potential to enhance services while meeting both the passengers per vehicle revenue hour and operating cost per passenger trip standards. Based on their analysis, LSC recommends including the following alternatives in the development of the draft plan.

LSC Recommended Alternatives:
1. Realign Routes 1 and 3 in downtown San Luis Obispo;
2. Provide B route service on weekend days year-round;
3. Increase Route 4A service frequency on weekday mornings in the academic year;
4. Increase Route 4B service frequency on weekday afternoons in the academic year; and
5. Reinstate Route 6 Express, SLO Tripper, and Highland Tripper services.

Staff concurs with LSC Recommendation #1 to realign Routes 1 and 3 in downtown San Luis Obispo as this change is believed to help address observed on-time performance issues. On time performance for SLO Transit is important to instill a sense of trust and reliability for users and increase confidence that SLO Transit customers can depend on the services that SLO Transit provides. This recommendation is estimated to have a minor savings in operating costs of $5,600 a year and will not require any additional transit vehicles.

Staff concurs with LSC Recommendation #2 to provide B route service on weekend days year-round as this was a highly requested in SLOCOG's Transit Needs Assessment as well as through the outreach conducted as part of the SRTP update. There is concern that adding weekend services could not increase ridership for SLO Transit but may only spread out current ridership across more trips. Staff is recommending that if this service augmentation is supported by Council that Council consider this to be phased in as a last order of service augmentation. This recommendation is estimated to increase annual operating cost by $263,100 and will not require any additional transit vehicles.

Staff concurs with LSC Recommendation #3 to increase Route 4A service frequency on weekday mornings in the academic year and LSC Recommendation #4 to increase Route 4B service frequency on weekday afternoons in the academic year as these routes are the best performing and the highest demand routes for SLO Transit service. This recommendation is estimated to increase annual operating cost by $39,900 and requires one additional transit vehicle.

Staff concurs with LSC Recommendation #5 to reinstate Route 6 Express, SLO Tripper, and Highland Tripper services as doing so aligns with the City's goal of restoring transit services to pre-pandemic levels. This recommendation is estimated to increase annual operating cost by $41,400 and requires one additional transit vehicle.

Selecting the appropriate level of services provided to the community through the SRTP requires consideration of community desires, anticipated community usage, transit operating costs and capital expenditures related to acquiring and maintaining transit vehicles. While it is anticipated that SLO Transit revenues will increase with increased level of service provided to the community, expenditures related to operating cost and capital needs are anticipated to be greater. To reduce the impact to capital expenditures for service augmentation, staff is considering and would appreciate Council's guidance on whether keeping the appropriate number of transit buses in service longer to address this immediate need is acceptable. While both SLO Transit and the Council has been aggressively replacing aging transit vehicles with new Zero Emission Buses some of the existing buses could be maintained in the fleet longer to augment services.

Study Session Feedback
Now that Council has received an update on the SRTP progress and reviewed the service alternatives analysis, staff is requesting direction as to which service alternatives to incorporate into the draft plan. Below are several questions staff has included to help initiate the feedback discussion.

1. Does Council agree with LSC and Staff's preliminary recommendations to include some or all the above listed service alternatives in the draft plan?
2. Does Council support the concept of addressing increased number of necessary transit vehicles by keeping in service existing buses that would have normally been removed from the inventory?
3. Does Council want to pursue a Microtransit pilot program as part of the SRTP update? If so, should the program overlay Microtransit over the entire service area or for specific route(s)?
4. With Cal Poly moving to a semester system in Fall 2026, SLO Transit could operate academic service year-round since Cal Poly would be in session for more of the year compared to their current quarter system. Would Council like to include in the draft plan implementation of any service changes to coincide with Cal Poly transition to a semester system?

Next Steps
LSC will update the service alternatives analysis section based on Council's feedback and include operational and capital costs assumptions for the service alternatives in Working Paper 5 - Operating Budget and Financial Projections and Working Paper 7 – Capital Improvement Plans. City staff, RTA, and LSC will also finalize a date in September for the third Joint MTC and RTAC meeting to present the recommended service alternatives and associated operating and capital costs.

Previous Council Action
1. January 23, 2024 – Council received and filed Transit Innovation Study and directed staff to finalize the report and begin implementation.
2. June 6, 2023 – Adoption of the 2023-25 Financial Plan and FY 2023-24 Budget which includes the Climate Action, Open Space, and Sustainable Transportation Major City Goal.
3. December 13, 2022 – Council adopted the Climate Action Plan 2023-27 Work Program which reaffirms direction to achieve the mode split objectives by 2030 and directs staff to incorporate the Transit Innovation Study findings into the Short-Range Transit Plan update.
4. August 18, 2020 – Council adopted the Climate Action Plan for Community Recovery establishing the 7% of trips by transit mode split objective by 2030.
5. September 20, 2016 – Council adopted the 2016 Short-Range Transit Plan.

Public Engagement
LSC and staff have conducted extensive outreach for the SRTP update as outlined below.

- Onboard Surveys were collected between October 23 and October 27, 2023, on all SLO Transit fixed route and tripper services. A total of 427 survey responses were received.
- In-person Stakeholder Workshop was held at the Ludwick Community Center on November 8, 2023, and included individuals from RTA, the City of San Luis Obispo, Cal Poly, and City of Paso Robles.
- Community (online) Surveys were collected between November 14 and December 12, 2023, using a Survey Monkey instrument developed by LSC and using the City's Open City Hall program. A total of 254 survey responses were received.
- Virtual Stakeholder Workshop was held on January 18, 2024, and included individuals from RTA, the City of San Luis Obispo, Transdev (the City's transit operations and maintenance contractor), SLOCOG, Cal Poly, Cuesta College, City of Paso Robles, City of Grover Beach, and California Department of Transportation (Caltrans).
- Joint Mass Transportation Committee (MTC) and Regional Transit Advisory Committee (RTAC) meeting was held on March 13, 2024, to present the results from Working Papers 1, 2, and 3 and to solicit feedback from committee members and the public as to which service alternatives should be analyzed in Working Paper 4.
- Joint Mass Transportation Committee (MTC) and Regional Transit Advisory Committee (RTAC) meeting was held on June 5, 2024, to present and solicit feedback on the initial service alternatives analysis that will be included in Working Paper 4.
- Community Workshops were held on June 5, 2024, in San Luis Obispo and on June 6, 2024, in Paso Robles and in Nipomo to present and receive feedback from the public on the initial service alternatives analysis.
- City Council Study Session on July 16, 2024, provides another opportunity for the public to provide input through written correspondence and through public testimony.

Each of these engagement efforts have included news releases prepared and distributed by the City's communication team, print flyers on bus and at public facilities downtown, and updates posted to SLO Transit's and to RTA's respective webpages. A third Joint MTC and RTAC meeting is tentatively scheduled for September 2024 to present the remaining Working Papers. The joint meeting also serves as an opportunity for the public to attend and provide feedback.

CONCURRENCE

The City's Mass Transportation Committee and RTA's Regional Transit Advisory Committee held a joint meeting on June 5, 2024, to review and provide feedback the service alternatives analysis. Committee members expressed interest in increasing weekend service and running the academic service year-round once Cal Poly moves to a semester system. One member suggested offering Microtransit services on weekends instead of fixed route to help fill in service gaps. An SRTP update working group consisting of City, RTA, and SLOCOG staff representatives have reviewed and commented on Working Papers 1, 2, 3, and 4.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to the recommended action in this report, because the action does not constitute a "Project" under CEQA Guidelines Sec. 15378. Projects carried out as part of the final adopted Short-Range Transit Plan must comply with state and local laws including environmental review or finding of exemption.

FISCAL IMPACT

Budgeted: N/A Budget Year: N/A
Funding Identified: N/A

Fiscal Analysis:

Funding Sources	Total Budget Available	Current Funding Request	Remaining Balance	Annual Ongoing Cost
Transit Fund	$ 0	$ 0	$ 0	$ 0
State				
Federal				
Fees				
Other:				
Total	**$ 0**	**$ 0**	**$ 0**	**$ 0**

The recommended action in this report does not have an immediate impact on the Transit Fund or the General Fund. The final SRTP will provide a five-year fiscally constrained operating and capital budgets for FY 2025-26 through FY 2029-30. The operating and capital budgets provided by the plan will be incorporated into the 2025-27 Financial Plan and will inform future financial planning processes.

ALTERNATIVES

Council could choose not to provide direction on which service alternatives to include in the Short-Range Transit Plan update. Staff does not recommend this alternative because the plan should accurately reflect Council's vision for the future transit services in the City and align with previous Council actions.

ATTACHMENTS

A - Working Paper 4 – Service Alternatives Analysis

City of San Luis Obispo Transit

Short Range Transit Plans

Working Paper 4 - Service Alternatives

Prepared for

SLO Transit

June 21, 2024

Prepared by LSC Transportation Consultants

City of San Luis Obispo Transit
Short Range Transit Plans

Working Paper 4:
Service Alternatives

Prepared for
City of San Luis Obispo
990 Palm Street
San Luis Obispo, CA 93401

Prepared by
LSC Transportation Consultants, Inc.
2690 Lake Forest Road, Ste. C
Tahoe City, CA 96145

June 21, 2024

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Chapter 1

SLO TRANSIT SERVICE ALTERNATIVES

INTRODUCTION

In this chapter, service alternatives for SLO Transit are presented. The alternatives are based on public input and the recommendations of related studies, including the recent *SLO Transit Innovations* (Transit Innovations) *Study* (2024). Given the City's goal of achieving a 7 percent transit mode split by 2030 and 12 percent transit mode split by 2035, many of the service alternatives are designed to increase ridership. Each alternative is evaluated as a stand-alone option in this chapter; the combined impacts of the recommended plan elements will be detailed in the Draft SLO Transit SRTP.

The following discussion of SLO Transit service alternatives is organized by the type of change proposed. Changes to service frequency are discussed first, followed by potential changes to service hours. Then, options for introducing microtransit service to San Luis Obispo are presented, followed by routing alternatives. The various alternatives are then compared using the new performance standards recommended in WP2. For each alternative, the impacts on ridership and operating costs are estimated. Ridership and cost estimates assume implementation in FY 2025-26 and are based on the following parameters:

1. The projected SLO Transit FY 2025-26 operating budget, as presented in the City of San Luis Obispo 2023-25 Financial Plan Supplement, was used to estimate the operating costs of each existing service assuming no change to service levels ("status quo" scenario). The per-hour and per-mile costs were then used to estimate the cost impacts of the various alternatives, per the following equation:

   Change in SLO Transit Marginal Operating Cost = $50.22 X Change in Vehicle Service Hours
   + $2.23 X Change in Vehicle Service Miles

   For the alternatives evaluations which follow, operating cost estimates represent "marginal" costs. In other words, fixed costs are excluded from the analysis unless identified specifically. The reason for looking at marginal costs of potential changes or improvements is that fixed costs (such as administrative staff salaries, utilities and supplies) will not change if service levels are increased or decreased. However, fuel/maintenance costs (cost per mile) and driver salary costs (costs per hour) will increase incrementally as vehicle hours and miles are increased. Fixed costs and capital costs will be included in the discussion when the Draft Financial Plan is prepared.

2. Ridership estimates are based on projected full-year SLO Transit FY 2023-24 ridership, expected population growth in San Luis Obispo County during the next two years, ridership data from peer systems, and standard transit demand elasticity factors, depending on the alternative. Elasticity is an economic term which measures the change in behavior of one variable in response to the change in a related variable. For example, if service levels are doubled, historical data has shown that ridership will not double, but rather increase by around 47 percent. Elasticity factors vary for different variables such as headways, total travel time or transfer time. Variation has also been found in urban areas vs. suburban areas or during peak or non-peak periods. *The Transit Cooperative Research Program (TCRP) Report 95 Traveler Response to Transportation System*

Changes Chapter 9 – Transit Scheduling and Frequency is a good resource for transit elasticity factors.

3. Service was assumed to include 180 academic year weekdays, 81 non-academic year weekdays, 52 Saturdays/holidays, and 52 Sundays, unless otherwise noted.
4. The assumed average cash fares received per boarding on each route are shown in Table 1. The average cash fare values were calculated by dividing the total annual cash fare revenue received on the route during FY 2022-23 by total annual boardings. The average cash fare estimates do not account for fees received from Cal Poly.

Table 1 : SLO Transit Average Cash Fare per Boarding by Route
FY 2022-23

	Boardings	Cash Fares	Average Cash Fare per Boarding
Route 1A	50,349	$51,823.37	$1.03
Route 1B	11,452	$9,381.51	$0.82
Route 2A	72,298	$72,317.92	$1.00
Route 2B	12,215	$12,348.40	$1.01
Route 3A	85,585	$27,594.63	$0.32
Route 3B	53,979	$14,563.33	$0.27
Route 4A	153,525	$11,662.94	$0.08
Route 4B	68,567	$4,780.27	$0.07
Laguna Tripper	7,032	$2,048.69	$0.29
Systemwide	**515,002**	**$206,521**	**$0.40**

Source: SLO Transit

SERVICE FREQUENCY ALTERNATIVES

The Transit Innovations Study recommended increasing service frequency to improve service quality and increase ridership. Additionally, more frequent service was one of the most requested improvements during the onboard passenger survey (42 percent of respondents), corroborating that improving service frequency would likely benefit SLO Transit ridership. This section considers alternatives to increase SLO Transit service frequency. The options discussed demonstrate the wide range of potential impacts that can result from increasing service frequency to differing extents. The service frequency alternatives are summarized in Table 2.

Table 2: SLO Transit - Service Frequency and Span Alternatives

	Change in Annual Service						
	Ridership	Service Hours	Service Miles	Marginal Operating Cost	Cash Fare Revenues [2]	Operating Subsidy	Additional Buses Needed
Status Quo[1]							
Route 1A	55,900	5,300	50,700	$379,100	$57,500	$321,600	
Route 1B	20,000	3,100	29,900	$222,300	$16,400	$205,900	
Route 2A	80,300	5,300	57,900	$395,100	$80,300	$314,800	
Route 2B	22,100	3,100	33,200	$229,600	$22,300	$207,300	
Route 3A	94,700	6,300	82,400	$499,900	$30,500	$469,400	
Route 3B	65,700	4,900	61,700	$383,500	$17,700	$365,800	
Route 4A	152,800	5,500	47,800	$382,600	$11,600	$371,000	
Route 4B	70,900	4,000	31,000	$269,900	$4,900	$265,000	
Laguna Tripper	10,100	200	2,000	$14,500	$2,900	$11,600	
Old SLO Trolley	1,600	300	1,800	$19,100	$600	$18,500	
System Total	*574,100*	*38,000*	*398,400*	*$2,795,600*	*$244,700*	*$2,550,900*	
Service Frequency and Span Alternatives - Change from Status Quo [3]							
Increase Route 4 Frequency During Academic Year							
Increase Route 4A Frequency - 8:00 AM - 10:00 AM	4,200	300	2,300	$20,200	$300	$19,900	1
Increase Route 4B Frequency - 3:00 PM - 5:00 PM	3,900	300	2,100	$19,700	$300	$19,400	1
Net Impact (Combined 4A and 4B)	*8,100*	*600*	*4,400*	*$39,900*	*$600*	*$39,300*	*1*
Double Service Frequency on Routes 1, 2, 3, 4 (A & B)							
Full Service Day, Year-Round	208,300	33,500	347,000	$2,455,000	$83,500	$2,371,500	8
8:00 AM to 6:00 PM, Weekdays, Year-Round	119,700	19,600	234,200	$1,505,800	$48,000	$1,457,800	8
Full Service Day, Weekdays, Academic Year	153,600	20,900	231,700	$1,565,500	$61,600	$1,503,900	8
Double Service Frequency on Rts 1A, 2A, 3A, 4A							
Full Service Day, Weekdays, Academic Year	89,600	11,300	133,800	$865,400	$35,900	$829,500	4
Double Service Frequency on Routes 3A, 3B, 4A, 4B							
Full Service Day, Weekdays, Academic Year	101,200	11,600	136,100	$885,600	$40,600	$845,000	4
Extend Weekday Evening Service on A Routes							
Extend Service to 12:00 AM - Academic Year	5,100	1,000	10,900	$74,500	$2,000	$72,500	0
Extend Service to 10:00 PM - Non-Academic Year	2,200	700	7,000	$50,700	$900	$49,800	0
Expand Service on B Routes							
Operate B Routes on Weekends - 7:45 AM - 8:00 PM	39,600	3,200	46,000	$263,100	$15,900	$247,200	0
Operate 3B and 4B on Weekends	29,400	1,600	25,300	$136,700	$11,800	$124,900	0
Extend Routes 1B and 2B until 10:00 PM - Weekdays, Academic Year	4,000	1,400	14,500	$102,600	$1,600	$101,000	0
Provide Academic Year Service Levels Year-Round	16,300	2,300	26,400	$174,300	$6,500	$167,800	0

Note 1: Status quo operations are based on FY 2023-24 ridership through 3/31/24 and expected annual population growth. Service estimates are based on FY 2022-23 operating parameters. Cost estimates are based on the projected FY 2025-26 SLO Transit budget and the SLO Transit cost model.

Note 2: The average cash fare per boarding by route is detailed in Table 13.

Note 3: Parameters and costs represent change over existing services. Estimates represent marginal costs and do not include fixed costs.

Increase Route 4 Frequency During Academic Year

Routes 4A and 4B serve northeast San Luis Obispo, connecting downtown and the Cal Poly campus with residential areas along Foothill Boulevard, Highland Drive and Grand Avenue. Service is operated on a 45-minute loop, using one bus in each direction. Route 4 is the most popular SLO Transit service; Route 4A is projected to provide upwards of 152,000 passenger-trips in FY 2025-26, and Route 4B is projected to provide 70,000 passenger-trips. Increasing service frequency during peak travel periods would likely further benefit ridership and improve connectivity between downtown and Cal Poly.

Increase Route 4A Frequency – 8:00 AM – 10:00 AM

Ridership is quite high on Route 4A (clockwise direction), particularly on the runs departing the Government Center at 8:15 AM, 10:30 AM and 11:15 AM, all of which were observed to carry more than 50 passengers. Given this high demand, the City could increase service frequency on weekday mornings during the academic year by adding two new runs departing the Government Center at 8:30 AM and 9:15 AM.

Operating the two additional Route 4A runs would increase the City's marginal operating cost by $20,200 per year. An elasticity analysis based on existing ridership during this service period indicates that ridership would be increased by an estimated 4,200 boardings per year, generating $300 in additional cash fares (not accounting for fare revenue agreement with Cal Poly). Note that there could be additional ridership generated by potential passengers that currently do not use the existing service due to crowding. This alternative would require an additional peak bus.

Increase Route 4B Frequency – 3:00 PM – 5:00 PM

Route 4B, which operates in the counterclockwise direction, carries particularly high passenger loads on the 4:00 PM and 4:45 PM runs (50 passengers each). Adding two additional runs departing the Government Center at 4:15 PM and 5:00 PM on weekdays in the academic year could expand capacity and improve convenience during the afternoon peak ridership period. The annual marginal operating subsidy for the two runs would be $19,400 per year, based on the increase to service levels and fare revenue. Adding Route 4B service in the afternoon would require an additional peak bus (though this could be the same bus added for the 4A additional runs in the morning). It is estimated the runs would provide 3,900 passenger-trips per year.

Double Service Frequency on All Regular Routes

A more substantial service increase would be to double service frequency on all regular SLO Transit fixed routes (Routes 1 A/B, 2 A/B, 3 A/B, and 4 A/B). At present, SLO Transit service frequencies are relatively low for an urban transit system, consisting of hourly service on Routes 1, 2 and 3 and service every 45 minutes on Route 4. Doubling service would result in bus service every 30 minutes on Routes 1, 2 and 3A and every 22.5 minutes on Route 4. The increase in ridership would help to achieve sustainability goals. , including the Transit Innovations Study goal to increase transit mode split to 7 percent by 2030. As discussed below, three options for doubling service frequency were considered.

Full Day, Year-Round

Doubling service frequency on all regular SLO Transit routes for the full-service day, year-round would result in a significant increase to the City's marginal operating cost; service levels would increase by 33,500 vehicle service hours and 347,000 vehicle service miles per year, requiring $2.45 million in operating funds. Eight additional vehicles would also be needed throughout the entire service day, which would require the City to expand its existing fleet and hire more bus operators. The drastic increase to service frequency would also have a significant impact on ridership, as elasticity analyses indicate that systemwide ridership would grow by 208,300 passenger-trips per year, equal to a 40 percent increase in ridership on Routes 1 through 4.

The additional fleet would also expand the required capacity of the SLO Transit maintenance facility, with regard to bus storage, charging and maintenance work bays. Accommodating a doubling of frequency could also exceed the capacity of the Downtown Transit Center. At present, the 5-bus capacity of the DTC is adequate to serve the hourly service on Routes 1, 2 and 3 (as well as the other services) by offsetting the "A" buses 30 minutes from the "B" buses. Simply adding new runs 30 minutes off of the existing service times (to provide desirable consistent 30-minute headways) would result in six buses onsite for Routes 1 through 3, as well as up to two buses for Route 4, as well as less frequent buses for the tripper and express services. While the peak number of buses at the DTC could be reduced by changing the schedules for some or all of the additional services, this would result in unbalanced service times and a loss in transfer opportunities.

8:00 AM – 6:00 PM, Weekdays, Year-Round

SLO Transit ridership, like many transit systems, is lower in the early morning and later evening. To ensure the more effective use of resources, the City could double service frequency from 8:00 AM to 6:00 PM on weekdays only. This service enhancement would increase service levels by 19,600 vehicle service hours and 234,200 vehicle service miles annually at a marginal operating cost of $1.5 million. To estimate the ridership impact, elasticity analyses for each route on the proportion of ridership that occurs from 8:00 AM to 6:00 PM. In sum, doubling service frequency during the weekday daytime hours would increase systemwide ridership by 119,700 passenger-trips per year, equal to a 23 percent increase in ridership on Routes 1 through 4. The implications on capital needs discussed for the first of these options would be the same for this option.

Full Day, Weekdays, Academic Year

Most SLO Transit ridership occurs during the Cal Poly academic year. Another means to double service frequency but concentrate resources during periods of high ridership would be to double service frequency on weekdays during the academic year. Annual service levels would increase by 20,900 vehicle service hours and 231,700 vehicle service miles. Elasticity analyses indicate that annual ridership would increase by 153,600 passenger-trips (a 30 percent increase in total ridership for Routes 1 through 4), therefore the net financial impact would be a $1.56 million increase to the SLO Transit marginal operating subsidy. The capital needs to expand the fleet, fleet facilities and passenger facilities would be the same as discussed for the previous alternatives.

Double Service Frequency on All A Routes, Full Weekdays, Academic Year

In consideration of the high operating cost and capital impacts of full doubling of frequency, another option was evaluated that focuses on doubling frequency of the four "A" routes, leaving the "B" routes unchanged. This has the advantage of providing equitable improvement of service across the SLO Transit service area. This option focuses the service improvement across the full weekday span of service, within the academic year only. Ridership impacts were evaluated based on an elasticity analysis of the A routes only, with a reduction included to reflect the proportion of existing A route ridership that transfer to and from the B routes (based on the onboard survey). This option would require an additional 11,300 vehicle-hours and 133,800 vehicle miles of service annually. Ridership would be increased by 89,800 boardings per year. Total operating subsidy would be increased by $829,500 annually, and four additional buses would need to be operated.

Double Service Frequency on Routes 3A, 3B, 4A, 4B, Full Weekdays, Academic Year

Another approach to a partial increase in service frequency would be to focus additional service on the two best performing of the four main routes, specifically Routes 3 and 4 (both A and B directions), for the full span of service in the academic year. This option would increase service by 11,600 vehicle-hours and 136,100 vehicle-miles per year. Considering the impact of no availability of direct transfers between Routes 3 and 4 and Routes 1 and 2, ridership would be increased by 101,200 boardings per year. Operating subsidy would be increased by $845,000 annually, and four additional buses would need to be in operation at peak times.

SPAN OF SERVICE ALTERNATIVES

The next set of SLO Transit alternatives focus on the "span of service," or the hours that transit services operate. Passengers requested multiple changes to the SLO Transit span of service during the onboard passenger survey; the most requested service improvements were later evening service (54 percent of respondents), more frequent service (42 percent), additional Saturday service (39 percent), and additional Sunday service (32 percent). The span of service alternatives are also summarized in Table 2.

Extend Weekday Evening Service on A Routes

To provide residents with a later-night transit option, two alternatives for extending service on Routes 1A, 2A, 3A, and 4A were considered.

Extend Service to 12:00 AM – Academic Year

Currently, the last departures on weekdays during the academic year on the A Routes occur at 9:15 PM (Routes 1A and 2A), 10:15 PM (Route 3A) and 10:30 (Route 4A), terminating the last runs 45 minutes later. Extending service on all four A Routes until midnight would add Route 1A and Route 2A departures at 10:15 PM and 11:15 PM and Route 3A and 3B departures at 11:15 PM. Based on late evening ridership on transit services at other California universities, this additional service is estimated to increase ridership by 5,100 boardings per year. While it would not require additional vehicles to operate, the increase in service hours and miles would result in an increase in operating cost of $74,500 per year.

Extend Service to 10:00 PM – Non-Academic Year

During the non-academic year, the last runs start at 7:15 PM on Routes 1A, 2A, and 3A and 7:30 PM on Route 4A. Extending service until roughly 10:00 PM would require operating two additional runs on Routes 1A, 2A and 3A, and three additional runs on Route 4A. An evaluation of ridership by hour in the academic versus non-academic year as well as ridership patterns in typical small urban areas indicates that these additional runs would generate 2,200 passenger-trips per year. Annual operating costs would be increased by $50,700. No additional buses would be required.

Expand Service on B Routes

Operate B Routes on Weekends – 7:45 AM – 8:00 PM

The four counterclockwise B routes do not operate on weekends. As a result, service is limited to the large one-way A routes. While the fact that some key corridors are served by more than one A route (such as DTC – Foothill Boulevard or DTC – Madonna Road) still provides some direct bi-directional service, other trips can require a long travel time around the majority of the one-way A loop. As an example, a trip between the DTC and Broad/Santa Barbara requires a 34-minute in-vehicle travel time on Route 4A, compared to only seven minutes when Route 4B is operating. In addition, some stops (such as the Amtrak Station) are served only on B routes and thus do not have any service on weekends. The reduction in service also effectively reduces the available frequency of service.

Operating all four B routes on Saturdays and Sundays (as well as holidays on which weekend service is provided) would incur an annual operating cost of $263,100. An evaluation of the weekday versus weekend ridership on the A routes during the same service span as well as the existing weekday B ridership by route indicates that overall ridership would increase by 39,600 passenger-trips per year. Note that no additional buses would be required to provide this service expansion.

Operate Routes 3B and 4B on Weekends

Another option would be to focus the additional B Route weekend service on Routes 3 and 4, which have the highest ridership. This would result in an annual marginal operating cost increase of $136,700 and an increase in annual ridership of 29,400. This option performs the best out of all the weekend options.

Extend Routes 1B and 2B until 10:00 PM – Weekdays, Academic Year

While Routes 3A and 4B provide departures up until 10:00 PM on weekdays during the academic year, the last Route 1B and Route 2B departures of the day currently is provided at 5:45 PM, reducing the convenience of transit services for the southern portions of San Luis Obispo by increasing travel times, reducing frequency and eliminating service to some stops. Consistent B route service could be provided throughout the city by operating an additional 4 daily trips of Routes 1B and 2B on academic weekdays, with the last departures at 9:45 PM.

An analysis of ridership on existing services on weekday evenings during the academic year indicates that operating these additional runs would serve approximately 4,000 additional passenger-trips per year.

While additional buses would not be required, annual operating costs would be increased by $102,600 annually.

Provide Existing Academic Year Span of Service Year Round

Cal Poly administration has indicated plans to expand class offerings and associated student activity levels in the summer. While specific details have yet to be defined, it is worthwhile to evaluate the cost and baseline ridership impacts of providing the same span and level of service currently offered in the academic year over the entire year. This would increase annual vehicle-hours by approximately 2,400 and annual vehicle-miles by approximately 26,400. Baseline additional ridership is estimated based on existing average productivity in the non-academic year (7.1 passenger-trips per vehicle service hour), yielding a total increase of 16,300. Note that there may be additional increases in ridership generated by an increase in summer Cal Poly activity. Overall, annual operating costs would be increased by $174,300. No additional fleet would be required. This option also has the benefit of providing more consistent year-round driver schedules, which has the potential to increase driver retention.

ROUTING AND MICROTRANSIT ALTERNATIVES

Another set of alternatives were considered regarding route realignments and the provision of microtransit service. These alternatives are summarized in Table 3.

Implement Evening Microtransit Pilot in Southeast San Luis Obispo

Microtransit is a relatively new form of demand response public transit. Through the use of technology and phone apps, it is possible for a passenger to request a ride “on-demand” within certain areas and certain times. The benefit of microtransit is that it is not limited to a set route with set stops, but rather passengers can be picked up at their curb and dropped off at the curb of their destination. This allows homes on the outlying edges of neighborhoods to be served more directly. The disadvantage of microtransit is that if there is high demand for service, there could be a 30-minute or longer wait for a ride. Passengers who depend on public transit to travel to work or appointments at specific times may find microtransit less convenient.

Microtransit has been successful in areas that are not easily served by a fixed route, low productive fixed routes or during the evenings and weekends, when there is less demand. Generally, SLO Transit Routes are very productive and therefore, it is not cost effective to replace the fixed routes with on-demand microtransit. However, the option of microtransit in the evening, when demand is typically lower, was explored.

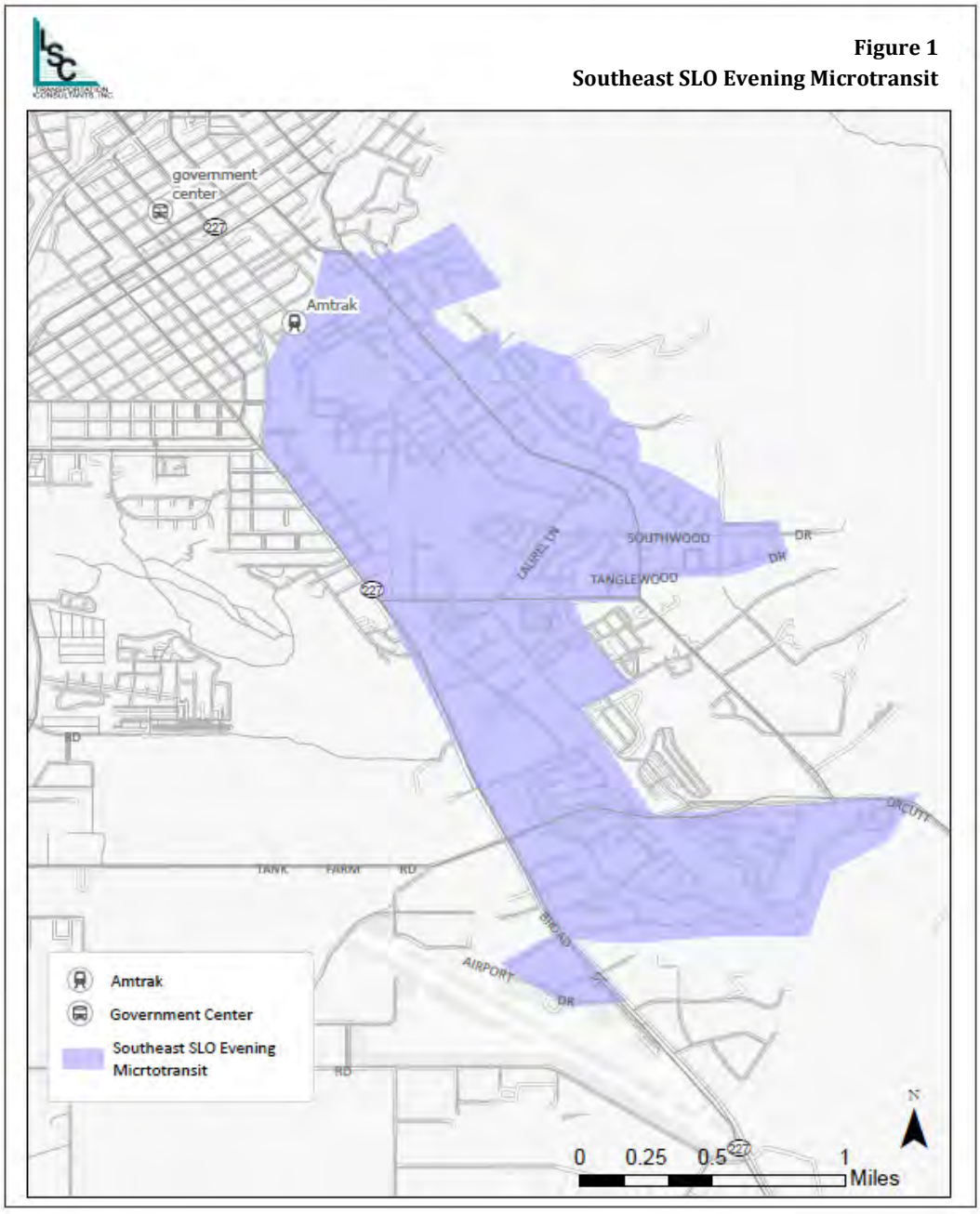
As part of this alternative, replacing Route 1A with microtransit service between the hours of 7 PM and 9 PM on a year-round basis was reviewed. Currently, Route 1B ends service at 6:30 PM. Therefore, hourly service is only available in the clockwise direction between 7 PM and 9 PM. Routes 1A and 1B serve residences in southeast San Luis Obispo as well as the San Luis Airport. Figure 1 presents an example microtransit service area.

In order to serve the level of transit demand currently seen on Route 1A during the evening hours, two vehicles would be needed to provide service between 7 PM and 9 PM and only one vehicle would be

needed during the 9 PM hour. This would cost an additional $33,600 annually in operating costs (including the costs of the annual technology license). As SLO Transit does not currently have small vehicles in their fleet, two vans would also need to be procured to operate this service.

Given the fact that curb to curb service would be available, around 250 more homes could be served directly with microtransit than with the fixed route. Therefore, there would be a small increase in ridership over the existing Route 1A evening ridership by around 100 trips per year. As development progresses along Tank Farm Road, this microtransit service area could be expanded. However, as demand for service increases, another vehicle would be required, further increasing costs.

Figure 1
Southeast SLO Evening Microtransit



Implement Late Night Microtransit Pilot - Academic Year

Microtransit could be more widely applied to the entire city as a "Late Night" service. SLO Transit services are not available past 11 PM and only Routes 3 and 4 operate this late during the academic year. The general geographic extent of a potential city-wide late night microtransit service area is displayed in Figure 2. As part of this alternative, microtransit would be available between 10 PM and midnight during the academic year. In order to maintain a reasonable level of cost, this alternative assumes that three vans would be used for an annual operating cost of $122,800 if service is provided only on weekdays during the academic year and $160,600 if service is provided 7 days a week during the academic year (only two peak vehicles would be required). Ridership was estimated by reviewing ridership by hour on other microtransit services. For the weekday scenario around 4,700 trips are estimated. If late night microtransit were operated 7 days/week, roughly 7,100 trips could be carried.

If implemented, this should be a one-to-two-year pilot program. Again, three vans would need to be procured, if the current contractor is used. Alternatively, some areas have had success in procuring a separate contractor who specializes in microtransit to operate as a "turnkey" service. Under this scenario, the City would not have to purchase new vehicles or the microtransit software, as it would be included in the total cost of the contract.

Reinstate Route 6X

Prior to COVID, Route 6X was operated on Thursday evenings during the academic year, connecting the Cal Poly Campus with the Downtown Transit Center on Thursday evenings (which the Farmers Market is in operation) from 6:00 PM to 9:00 PM. One bus was used to operate a loop route every half hour. Ridership averaged 2,600 passenger-trips per year. Considering the historic ridership and the changes in overall transit ridership since 2020, a reinstated service is estimated to serve 2,200 passenger-trips per year. The annual operating cost would be relatively modest, at $7,200 annually.

Reinstate SLO Tripper

Prior to the pandemic, the SLO Tripper route consisted of 2 AM and 2 PM runs per school day connecting the Transit Center with SLO High School. If this route were reinstated, the current operating cost would be $18,500 per year. San Luis Coastal Unified School District data indicates that the High School enrollment has increased by 3 percent since 2019. Applying this factor to the 2019 ridership, this service would carry approximately 7,100 passenger-trips per year and require an operating cost of $17,200. An additional bus would need to be operated.

Figure 2
SLO Full City Microtransit

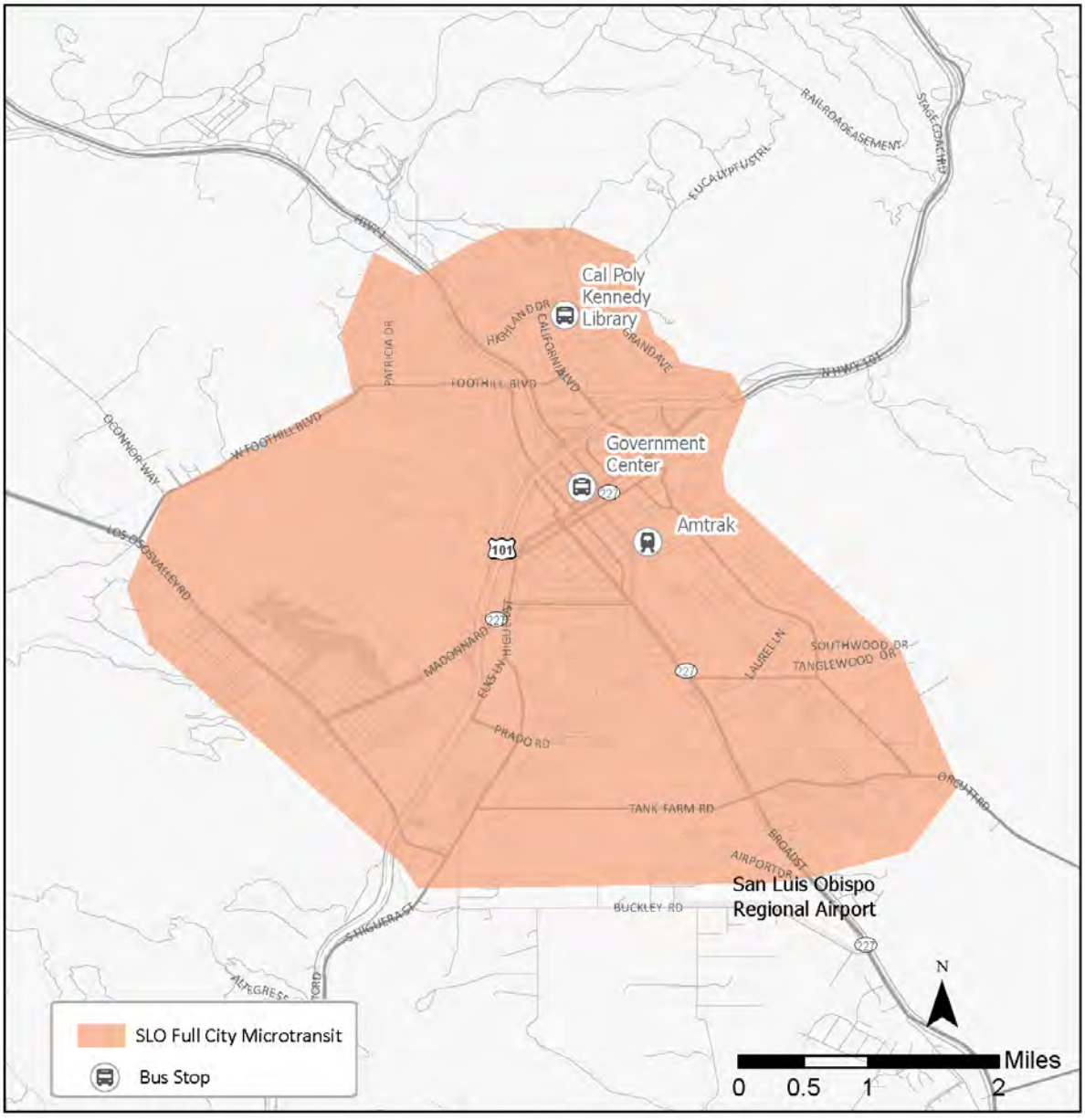


Table 3: SLO Transit - Routing and Microtransit Alternatives

	Change in Annual Service[2]						
	Ridership	Service Hours	Service Miles	Marginal Operating Cost	Cash Fare Revenues [3]	Operating Subsidy	Additional Vehicles Needed
Status Quo[1]							
Route 1A	55,900	5,300	50,700	$379,100	$57,500	$321,600	
Route 1B	20,000	3,100	29,900	$222,300	$16,400	$205,900	
Route 2A	80,300	5,300	57,900	$395,100	$80,300	$314,800	
Route 2B	22,100	3,100	33,200	$229,600	$22,300	$207,300	
Route 3A	94,700	6,300	82,400	$499,900	$30,500	$469,400	
Route 3B	65,700	4,900	61,700	$383,500	$17,700	$365,800	
Route 4A	152,800	5,500	47,800	$382,600	$11,600	$371,000	
Route 4B	70,900	4,000	31,000	$269,900	$4,900	$265,000	
Laguna Tripper	10,100	200	2,000	$14,500	$2,900	$11,600	
Old SLO Trolley	1,600	300	1,800	$19,100	$600	$18,500	
System Total	*574,100*	*38,000*	*398,400*	*$2,795,600*	*$244,700*	*$2,550,900*	
Routing and Microtransit Alternatives - Change from Status Quo[2]							
Implement Evening Microtransit Pilot in Southeast SLO [4]							
7:00 PM - 10:00 PM, Weekdays, Year-Round	100	500	8,800	$33,600	$200	$33,400	2
Implement Late Night Microtransit Pilot - Weekdays, Academic Year [4]							
10:00 PM - 12:00 AM, Weekdays, Academic Year	4,700	1,400	17,500	$122,800	$11,100	$111,700	3
10:00 PM - 12:00 AM, 7 Days/Week, Academic Year	7,100	1,700	21,625	$160,600	$11,100	$149,500	3
Reinstate Route 6X	2,200	100	1,000	$7,200	$900	$6,300	1
Reinstate SLO Tripper	7,100	280	1,430	$17,200	$2,800	$14,400	1
Reinstate Highland Tripper	6,600	230	2,430	$17,000	$2,600	$14,400	1
Revise Routes 1 and 3 in Downtown SLO							
Route 1A	*3,200*	*0*	*1,600*	*$3,500*	*$3,300*	*$200*	*0*
Route 1B	*3,600*	*0*	*-600*	*-$1,400*	*$3,000*	*-$4,400*	*0*
Route 3A	*6,900*	*0*	*0*	*$0*	*$2,200*	*-$2,200*	*0*
Route 3B	*4,000*	*0*	*-3,500*	*-$7,700*	*$1,100*	*-$8,800*	*0*
Total	17,700	0	-2,500	-$5,600	$9,600	-$15,200	*0*

Note 1: Status quo operations are based on FY 2023-24 ridership through 3/31/24 and expected annual population growth. Service estimates are

Note 2: Parameters and costs represent change over existing services. Estimates represent marginal costs and do not include fixed costs.

Note 3: The average cash fare per boarding by route is detailed in Table 13.

Note 4: Assumes a general microtransit fare of $4.00 per one-way trip, or an average fare of $2.36 per passenger. Costs include $4,500/year for app license for one vehicle.

Reinstate Highland Tripper

An additional tripper that has not been operated since the pandemic is the Highland Tripper. This is a short loop route connecting the Cal Poly campus with the housing areas to the west with three round-trips per school day, and provide additional capacity and service times in the peak AM travel period. Considering the previous ridership and the overall change in Cal Poly ridership since the pandemic, this service would currently carry roughly 6,600 annual passenger-trips. Reinstating this service would increase operating cost needs by $17,000, and would require operation of an additional bus.

Revised Routes 1 and 3 in Downtown San Luis Obispo

As discussed in Technical Memorandum 3, the on-time performance of Routes 2 and 3 is poor. Over a total of 298 runs observed as part of this study, 65 percent of Route 2A runs were more than 5 minutes behind schedule, along with 49 percent of Route 2B runs, 48 percent of Route 3A runs and 47 percent of Route 3B runs. In addition to adding uncertainty to service times on each route, this low level of dependability results in missed transfers to/from other routes.
The following options were evaluated to potentially reduce running time and improve on-time performance:

Both Route 2A and 2B in the outbound direction could be streamlined somewhat by traveling along Higuera Street between Higuera/Nipomo and Higuera/Pismo, rather than using Nipomo Street and Pismo Street. This would reduce the route length by 0.2 miles and save roughly 1 minute of travel time. It would eliminate service to two existing stops (Nipomo at Pismo and Pismo at Archer, that serve 6 passenger-trips per day, or approximately 2,000 passengers per year. Given the limited reduction in travel time, this option is not considered further.

In the inbound direction, both Routes 2A and 2B operate a relatively direct route along Marsh Street to Santa Rosa Street, then travel west on Mill and south on Osos to the transit center. A faster option would be to enter US 101 northbound at the Marsh Street interchange and exit at Osos Street, which would reduce running time by approximately 4 minutes. However, existing stops at Marsh/Archer, Marsh/Broad, March/Osos, and Santa Rosa/Higuera would be missed. These stops serve approximately 13 passengers per day, or 6,200 per year (70 percent on Route 2A and 30 percent on Route 2B). As this option would have a substantial impact on existing ridership and would eliminate much of the service between southwest downtown San Luis Obispo and the Transit Center, it is not considered further.

Routes 3A and 3B between the downtown transit center and Higuera Street/South Street both travel along South Street and Santa Barbara Street. Route 3B also serves the Amtrak Station at the end of Santa Rosa Street, while Route 3A travels along Osos Street. Routes could be shortened by using Pismo Street between Santa Rosa Street and Higuera Street on Route 3A and using Marsh Street on Route 3B. This would reduce Route 3A route length by 0.7 miles and reduce Route 3B route length by 0.9 miles. Service would be eliminated to 7 stops on Route 3A and 8 stops on Route 3B. Total ridership at these stops is currently roughly 31 passengers per day or 7,600 per year, evenly split between the two individual routes. However, given the slower running speeds in downtown compared with High Street and the southern portion of Santa Barbara Street, only roughly 1 minute of travel time would be saved in each direction. This option is not considered further, given the substantial impact on ridership and limited benefit to running time.

Another option would be to reroute Routes 3A and 3B onto US 101 between the Downtown Transit Center and the Madonna Street interchange and shift Routes 1A and 1B onto the exiting Routes 3A/3B routes between Broad Street/High Street and the Downtown Transit Center. This realignment is shown in Figure 2. This would reduce the running time of Route 3A by roughly 5 minutes and Route 3B by roughly 7 minutes, which would significantly improve the on-time performance of Routes 3A and 3B.
Service would be fully eliminated from only a total of four existing stops. Setting aside those stops within a quarter mile walk of other remaining stops, those stops that lose all convenient service consists of the following:

- Broad at Islay (Route 1A)
- Broad at Leff (Route 1B)
- South at King W (Route 3A)
- South at King W (Route 3B)

The stops along Broad Street on Routes 1A/1B in total currently serve 2 passenger-trips per day or 800 per year, while the stops along South Street on Routes 3A/3B currently serve 7 passenger trips per day or 1,000 per year, for a total of 9 daily trips and 1,800 annual trips.

This realignment option would also reduce service between the downtown Transit Center and central downtown San Luis Obispo by rerouting Route 1 out of the area. However, as the current Route 1 schedule is very close to the Route 2 schedule in both directions, this would not significantly reduce the convenience of transit service. This option would also reduce the travel times between southwest San Luis Obispo and the Downtown Transit Center. Improving the dependability of Route 3A/3B would also improve the connections to other routes at the Transit Center. Running times on Route 1A/1B are not expected to change significantly; while the revised Route 1A is 0.3 miles longer than at present, it would avoid congestion in the lower downtown area.

As shown in Table 3, this strategy would not change vehicle-hours of service but would reduce annual vehicle-miles by 2,500. Ridership impact was estimated based on the ridership change associated with improvements in dependability, the changes in in-vehicle travel time, the loss of ridership at the four stops with elimination of service, as well as the shift in existing Routes 3A/3B ridership to Routes 1A/1B. Overall, annual ridership is estimated to increase by a total of 17,700 passenger boardings per year. Considering the operating costs savings generated by the reduction in mileage plus the additional passenger revenues, the net operating subsidy would be reduced by $15,200 per year. No additional buses would be required.

PERFORMANCE ANALYSIS OF SLO TRANSIT SERVICE ALTERNATIVES

To evaluate the relative performance of the alternatives above, key impacts of each alternative were compared. The change from the status quo ridership, marginal operating cost, passengers carried per vehicle hour, and marginal operating cost per passenger were compared. This evaluation gives insight regarding the relative advantages and disadvantages of the alternatives. Table 4 and Figures 2-5 show the relative performance of the service alternatives. Green highlight in Table 4 indicates alternatives which meet performance standards developed as part of Working Paper #2.

Ridership

The impact of the various alternatives on annual ridership is shown in Figure 2. As indicated, the alternatives vary widely, ranging from very little change in ridership associated with providing evening microtransit service in southeast San Luis Obispo (replacing Route 1 service) up to 208,300 passenger-trips per year generated by doubling service throughout the year across the operating day. Excluding the options of doubling frequency, the greatest ridership increase is generated by operating the B routes on weekend days (39,600) followed by operating just Route 3B and 4B on weekends (29,400) and revising Routes 1 and 3 in downtown San Luis Obispo (17,700).

Table 4: SLO Transit - Service Alternatives Performance Analysis

	Net Impact					
	Annual Ridership	Service Hours	Service Miles	Annual Marginal Operating Cost [1]	Passenger-Trips per Vehicle Service Hour	Marginal Op. Cost per Passenger-Trip
Increase Route 4 A/B Frequency During Academic Year						
Increase Route 4A Frequency - 8:00 AM - 10:00 AM	4,200	300	2,300	$20,200	14.0	$4.81
Increase Route 4B Frequency - 3:00 PM - 5:00 PM	3,900	300	2,100	$19,700	13.0	$5.05
Double Service Frequency on Routes 1, 2, 3, 4 (A & B)						
Full Service Day, Year-Round	208,300	33,500	347,000	$2,455,000	6.2	$11.79
8:00 AM to 6:00 PM, Weekdays, Year-Round	119,700	19,600	234,200	$1,505,800	6.1	$12.58
Full Service Day, Weekdays, Academic Year	153,600	20,900	231,700	$1,565,500	7.3	$10.19
Double Service Frequency on Routes 1, 2, 3, 4 (A Only)						
Full Service Day, Weekdays, Academic Year	89,600	11,300	133,800	$865,400	7.9	$9.66
Double Service Frequency on Routes 3, 4 (A & B)						
Full Service Day, Weekdays, Academic Year	101,200	11,600	136,100	$885,600	8.7	$8.75
Extend Weekday Evening Service on A Routes						
Extend Service to 12:00 AM - Academic Year	5,100	1,000	10,900	$74,500	5.1	$14.61
Extend Service to 10:00 PM - Non-Academic Year	2,200	700	7,000	$50,700	3.1	$23.05
Expand Service on B Routes						
Operate B Routes on Weekends Year Round - 7:45 AM - 8:00 PM	39,600	3,200	46,000	$263,100	12.4	$6.64
Operate 3B and 4B on Weekends	29,400	1,600	25,300	$136,700	18.4	$4.65
Extend Routes 1B and 2B until 10:00 PM - Weekdays, Academic Year	4,000	1,400	14,500	$102,600	2.9	$25.65
Provide Academic Year Service Levels Year-Round	16,300	2,300	26,400	$174,300	7.1	$10.69
Implement Evening Microtransit Service in SE SLO	100	500	8,800	$33,600	0.20	$336.00
Implement Late Night Microtransit - Weekdays	4,700	1,400	17,500	$122,800	3.4	$26.13
Implement Late Night Microtransit - 7 days/week	7,100	1,700	21,625	$160,600	4.2	$22.62
Reinstate Route 6X	2,200	100	1,000	$7,200	22.0	$3.27
Reinstate SLO Tripper	7,100	280	1,430	$17,200	25.4	$2.42
Reinstate Highland Tripper	6,600	230	2,430	$17,000	28.7	$2.58
Revise Routes 1 and 3 in Downtown SLO	17,700	0	-2,500	-5,600	NA	-$0.32
Alternatives meeting performance standards shaded in green. Note that alternatives meet standards by increasing ridership at a greater rate than costs, eliminating a service not meeting standards, or increasing ridership while decreasing costs.				Recommended Performance Standards	11.5	$11.23

Note 1: Does not include fixed costs

Figure 3: SLO Transit Service Alternatives - Impact on Annual Ridership

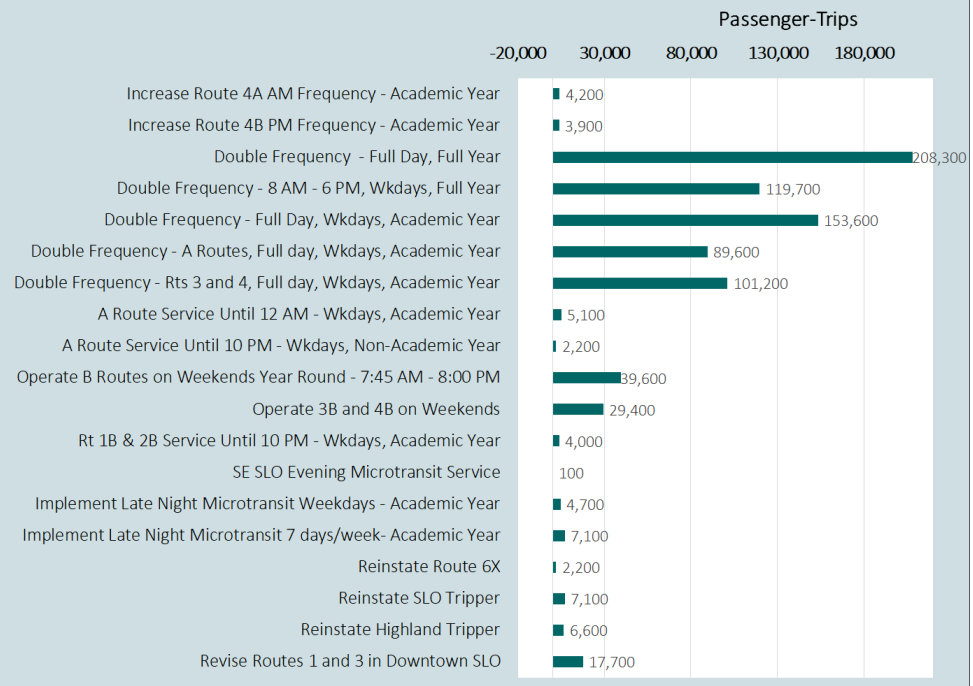


Figure 4: SLO Transit Service Alternatives - Impact on Annual Marginal Operating Cost

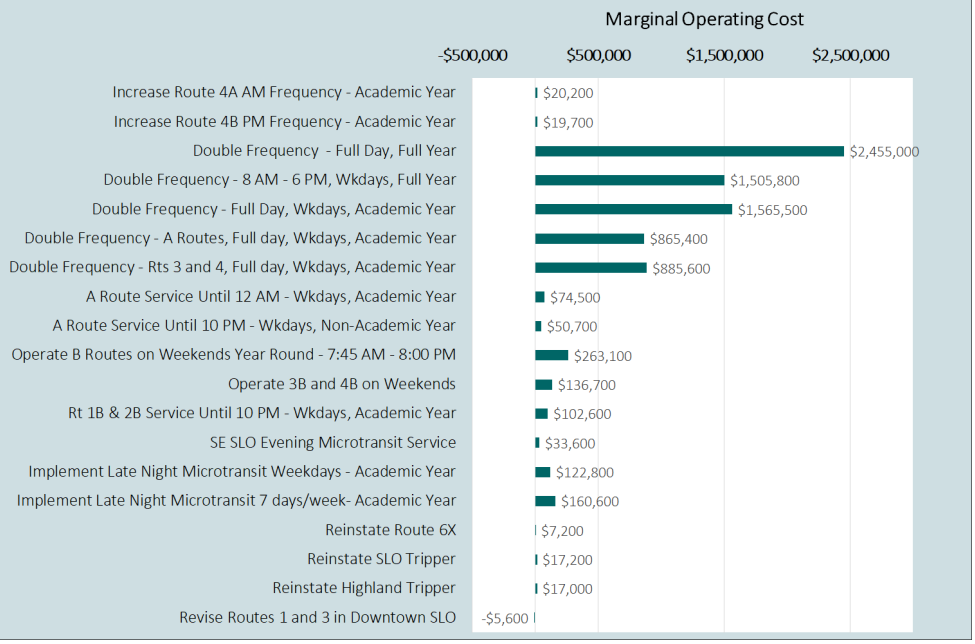
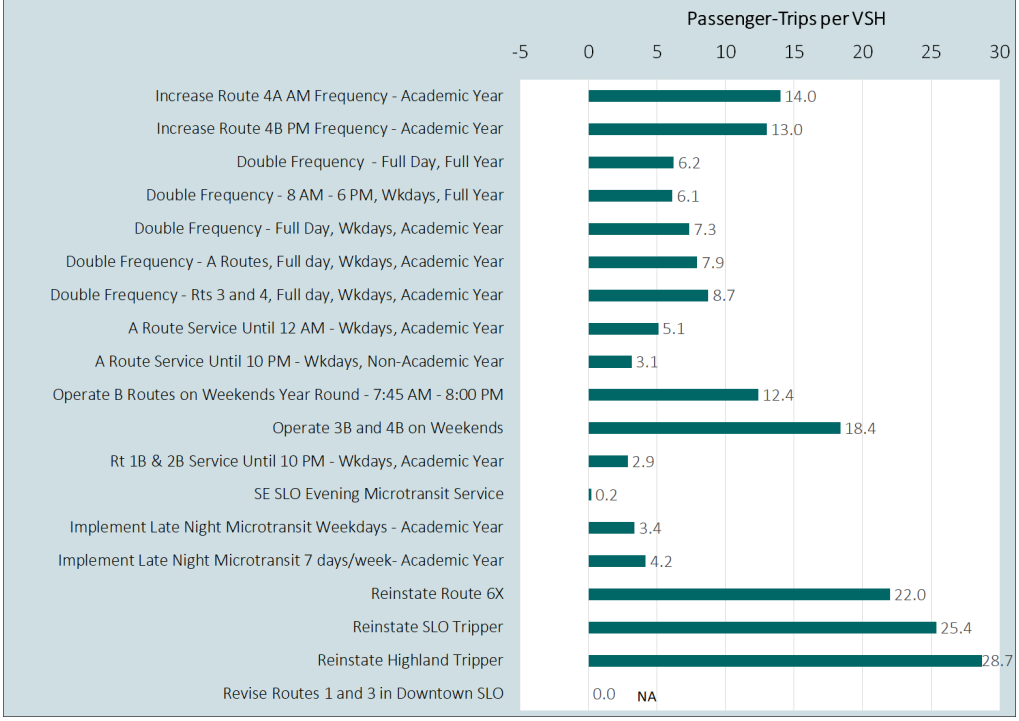


Figure 5: SLO Transit Service Alternatives - Passenger-Trips per Vehicle Service Hour



Marginal Operating Cost

Similar to the ridership impacts, the impact on annual marginal operating costs also vary widely, as shown in Figure 3. At the high end, the full doubling of transit service across all service periods over the year would increase operating costs by $2.45 Million, while limiting the doubling of service frequency to the academic year would cost $1.56 Million, and limiting to daytime hours through the full year would cost $1.5 Million. Doubling frequency on just the A Routes or Routes 3 and 4 (both A and B) would cost on the order of $865,400 and $885,600, respectively.

On the other end, revising Routes 1 and 3 in downtown San Luis Obispo would yield a small overall reduction in annual operating cost of $6,100. Beyond doubling frequency, other service alternatives that are relatively costly are operating B routes on weekends ($263,100), implementing late night microtransit service ($122,800) and operating Routes 1B and 2B on weekday evenings in the academic year ($102,600).

Passenger-Trips per Vehicle Service Hour

A standard measure of the productivity of a transit service is the passenger-trips served per vehicle-hour of service. As shown in Figure 4, the "best" alternative by this measure is reinstating Highland Tripper, which would serve 28.7 passenger-trips per vehicle-hour. This is followed by reinstating the SLO Tripper and Route 6X. Operating Route 3B and 4B on Weekends (18.4), increasing Route 4A morning frequency in the academic year (14.0), increasing Route 4B afternoon frequency in the academic year (13.0) and operating the B routes on weekends (12.4) all meet productivity standards. The options that double

service frequency range from 6.1 to 8.7 passengers per vehicle service hour, with the most productive being doubling service on Routes 3 and 4 in the academic year only. The worst option by this measure is replacing evening Route 1 service with microtransit, which adds vehicle-hours but is not forecast to change ridership very much. Note that the revision of Routes 1 and 3 in downtown San Luis Obispo cannot be evaluated by this measure, as the number of vehicle-hours is not changed.

As discussed in *Working Paper 2*, the standard for this measure is a minimum of 11.5 passenger-trips per vehicle service hour. Those alternatives that meet this standard are reinstating Route 6X, Highland Tripper and SLO Tripper, increasing Route 4A frequency in the morning during the academic year, increasing Route 4B frequency in late afternoons during the academic year, and operating the B routes on weekends year-round, particularly 3B and 4B.

Marginal Operating Cost per Passenger-Trip

A final performance measure is the marginal operating cost per passenger-trip. This is a good measure of the financial performance of the various alternatives, with the better alternatives indicated by a lower value. Figure 5 indicates the "best" alternative by this measure is the revision of Routes 1 and 3 in downtown San Luis Obispo, which saves $0.32 for every additional passenger-trip served (as it reduces costs while increasing ridership). At the other extreme, replacing Route 1 in the evening with microtransit requires a $357 per new trip served, followed by implementing late night microtransit service ($26.13), followed by Route 1B and 2B service until 10 PM ($25.65). Considering the standard of no more than $11.23 per passenger-trip, those that achieve the standard consist of:

- Routes 1 and 3 revisions in downtown San Luis Obispo
- Reinstating pre-COVID services such as Route 6X, Highland Tripper and SLO Tripper
- Increasing Route 4A frequency in the mornings during the academic year
- Increasing Route 4B frequency in the late afternoons in the academic year
- Operating the B routes on weekends year-round, 3B and 4B in particular
- Doubling frequency on all routes for a full-service day, weekdays, during the academic year
- Doubling frequency on the A routes for a full-service day, weekdays, during the academic year
- Doubling frequency on Routes 3A, 3B, 4A and 4B for a full-service day, weekdays during the academic year.
- Provide academic year service levels year-round

Summary

Based on this performance analysis the following service alternatives have the greatest potential to enhance the SLO Transit service and should be carried forward into the plan development process:

- Realigning Routes 1 and 3 in downtown San Luis Obispo.
- Providing B route service on weekend days year-round.
- Increasing Route 4A frequency on weekday mornings in the academic year.
- Increasing Route 4B frequency on weekday afternoons in the academic year.
- Reinstating pre-COVID routes: Route 6X, Highland Tripper and SLO Tripper.

While doubling service frequency would generate substantial ridership benefits, it would require significant new funding sources as well as consideration of capital fleet and facility needs. Doubling frequency on Routes 3A, 3B, 4A and 4B would have the lowest marginal operating cost per new passenger-trip served.