


City of Morro Bay
Water Reclamation Facility Project

Revised Final Plan
SPECIAL CONDITIONS NO. 2
LIFT STATIONS AND OFFSITE
PIPELINES

FINAL | December 2020

APPROVED

CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST DISTRICT OFFICE
725 FRONT ST., STE. 300
SANTA CRUZ, CA 95060

KIC 6/17/21




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Abbreviations

| | |
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| BMP | Best Management Practice |
| BOD | biochemical oxygen demand |
| CCC | California Coastal Commission |
| CDP | Coastal Development Permit |
| CDR | Conceptual Design Report |
| City | City of Morro Bay |
| Conveyance Facilities/Project | pipelines and pump stations |
| CWA | Clean Water Act |
| EIR | Environmental Impact Report |
| FEMA | Federal Emergency Management Agency |
| IPR | indirect potable reuse |
| mgd | million gallons per day |
| NOI | Notice of Intent |
| Project Plans/Plans | Final Project Design Drawings |
| RWQCB | Regional Water Quality Control Board |
| SWPPP | Storm Water Pollution Prevention Plan |
| TSS | total suspended solids |
| USACE | US Army Corps of Engineers |
| WRF | Water Reclamation Facility |
| WRFCAC | Water Reclamation Facility Citizens Advisory Committee |

Section 1

PROJECT BACKGROUND

The existing Morro Bay-Cayucos wastewater treatment plant is located at 160 Atascadero Road in Morro Bay and is jointly owned and operated by the City of Morro Bay (City) and the Cayucos Sanitary District. The wastewater treatment plant was originally built in 1954 in a low-lying area near the confluence of Morro Creek with the Pacific Ocean, and it provides wastewater treatment services to the City and to the unincorporated community of Cayucos approximately six miles to the north. The wastewater treatment plant was built before modern state and federal water quality standards, and does not meet federal Clean Water Act (CWA) standards for full secondary treatment. Instead, the wastewater treatment plant has been operating under a CWA waiver for full secondary treatment requirements for biochemical oxygen demand (BOD) and total suspended solids (TSS) since 1984. In 2018, the City received a time schedule order from the Central Coast Regional Water Quality Control Board (RWQCB) requiring compliance with full CWA secondary treatment requirements by February 28, 2023.

Because of the age of the existing wastewater treatment plant, its failure to meet core CWA water quality standards and the possibility of potential fines/penalties for failure to meet the RWQCB's mandate for CWA compliance by 2023, the City has been pursuing a new upgraded wastewater treatment facility for more than a decade. The City and the Cayucos Sanitary District initially proposed to redevelop the wastewater treatment plant at its current site, but the Coastal Development Permit (CDP) was appealed to the California Coastal Commission (CCC), and ultimately in 2013, the CCC denied the City's redevelopment-in-place proposal on the basis of inconsistencies regarding avoiding coastal hazards, land use priorities, recycled water provisions and public view protections.

Following the CDP denial and given the CCC's direction to the City and the Cayucos Sanitary District on the appropriate path to upgraded wastewater and water reclamation functions, the City developed a Water Reclamation Facility Citizens Advisory Committee (WRFCAC), identified 17 potential sites for plant relocation, and developed criteria for a potential water reclamation facility project, including coastal hazards avoidance through plant relocation inland, water quality improvement through compliance with applicable water quality standards, and water supply security through recycled water provision. Over the past six and a half years, through significant public input that shaped this project, including making critical decisions in public forums regarding Water Reclamation Facility (WRF) siting (e.g., in town vs. outside of town), components/operations, recycled water end uses (e.g., agricultural uses only or full potable reuse), funding (e.g., through two City-wide votes to raise utility fees to pay for the project), and process (i.e., two public hearings to approve the project Environmental Impact Report and two affirmative votes by the Morro Bay City Council and County Board of Supervisors to authorize a consolidated CDP approval process).

This proposed Project meets Coastal Act consistency on many fronts—for the protection and enhancement of coastal resources, for providing essential public services to Morro Bay residents and visitors, and for providing adaptation and resiliency in an era of increased hazards

exacerbated by climate change. The Commission directed the City to propose a project of this type back in 2013, finding that a project that perpetuated the City's water and wastewater status quo was not appropriate or consistent with the Coastal Act. The City responded to the CCC's directive, and the proposed project is the end result that addresses the Coastal Act concerns previously raised by the CCC in a way that provides a more sustainable wastewater and water supply future for the City.

Section 2

PROJECT COMPONENTS

The WRF Project includes construction of a new one million gallon per day (mgd) advanced treatment facility on South Bay Boulevard north of Highway 1, two new lift stations, approximately 3.5 miles of pipelines and wells to inject the purified water into the groundwater aquifer, which can be extracted for reuse through the City's existing infrastructure. Construction began on the WRF in March 2020 with project completion expected by 2023.

The lift stations and offsite pipelines (conveyance facilities) component of the City's WRF project involves constructing multiple pipelines to serve the WRF from the proposed influent lift stations. The pipelines include two parallel sewer force mains which convey raw sewage by a lift station located at the existing wastewater treatment plant location sourced from the City's collection system.

The conveyance facilities also include the treated effluent (brine) disposal line from the WRF which is pumped directly to the ocean outfall pump station from the WRF to ultimately be discharged via the ocean outfall diffuser.

The WRF will be producing purified water to be injected into the Morro Groundwater Basin via injection wells to be extracted by the City's municipal wells for indirect potable reuse (IPR). The IPR pipeline will be used to supply purified water from the WRF to the injection wells. The conveyance facilities project will begin construction in early 2020 with a completion in 2022.

Section 3

DOCUMENT PURPOSE

This document describes the proposed measures to be taken by the City to address the requirements of Special Conditions No. 2 – Construction Plan listed in the Notice of Intent (NOI) to Issue CDP 3-19-0463 for the WRF Lift Stations and Offsite Pipelines Project (Project or Conveyance Facilities Project). The WRF Lift Stations and Offsite Pipelines Project includes the supporting infrastructure to serve the future water reclamation facility currently under construction.

The City is taking a phased approach to meeting Special Condition No. 2 for the CDP. As described above, the Project is being delivered via three distinct construction efforts: WRF, Conveyance Facilities, and Recycled Water Facilities (i.e., injection wells). The Construction Plan described herein is specific to the conveyance facilities, which will begin construction in early 2020. The City has already received approval from the Executive Director for the WRF construction plan and will bring a separate Construction Plan for the Recycled Water Facilities at the appropriate time when that design has been completed and is ready to begin construction.

Section 4

REFERENCE DOCUMENTS

The following documents are referenced in the Appendices of this Special Conditions 2 Report.

Appendix:

- A. Morro Bay Water Reclamation Facilities Lift Stations and Offsite Pipelines (Plans)
- B. Technical Specifications
- C. Conceptual Design Report (CDR)
- D. Attachments 1 through 13

Section 5

2. CONVEYANCE FACILITIES CONSTRUCTION PLAN

This Construction Plan is specific to the Lift Stations and Offsite Pipelines Project serving the WRF, and it addresses each requirement outlined in Special Condition No. 2 of CDP 3-19-0463. The Conveyance Facilities Project alignment is from the existing City wastewater treatment plant near Atascadero Road to the new WRF Site near South Bay Boulevard and Highway 1. Attachment 1 shows the alignments of the Conveyance Facility Project with respect to the existing Wastewater treatment plant and the WRF site for reference throughout this Construction Plan.

2.a Grading

The pipeline component of the conveyance facilities project do not show any significant grading required for the construction. The only grading along the pipeline alignment that is required is to match the existing embankment slope of the Highway 1 southbound onramp shown on sheet 05-PP-05 and 05-PP-06. There are three different installation methods for the pipelines that require grading; utility trench with pavement resurfacing, utility trench with native ground resurfacing, and one pipe bridge. Attachment 2 shows sheets 05-PP-06 and 05-PP-06 from the Project Plans.

Grading is also proposed at the abutments of the pre-engineered pipe bridge crossing Morro Creek. Sheet 05-PP-07 shown in Attachment 2 shows the pipe bridge grading limits of each abutment and the 2 foot clearance above the 100-year flood event elevation of 26-feet. Grading is required for Lift Station A and Lift Station B. Section 5.2.4 of the CDR shows that Lift Station A is within the 100-year flood limits. The Project Plans show that the elevation of Lift Station A is to increase with respect to the existing ground elevation in order to be above the flood inundation limit. The lift station mechanical equipment, generator, and site appurtenances are set above the 100-year flood elevation. Grading for Lift Station B is to match the surrounding ground elevation for the lift station buildings. Attachment 3 shows the grading for Lift Station A and B as displayed on sheets 10-C-2 and 20-C-2 respectively of the Project Plans.

Section 5.2.5 of the CDR outlines the potential for flooding from tsunami inundation. Both Lift Stations A and B fall within the estimated tsunami inundation zone per ASCE Tsunami Hazard tool. Lift Station B is on the outer edge of the tsunami zone therefore flooding potential from a tsunami is minor. Lift stations were not designed to withstand a tsunami and would have to be repaired or replaced following a natural disaster of this magnitude.

2.b Construction Areas

The majority of the project occurs in City street public right-of-way. The typical City right-of-way width along the pipeline alignment is 60 to 80 feet. The construction area is clearly delineated in the Traffic Handling Plans shown on Sheets 05-TH-1 through 05-TH-23 in Attachment 4. Areas

outside of the City proper have wider right of way widths, however are constricted by the surrounding Highway 1 embankments or private property. Any utility construction performed in a public street will require a standard right of way encroachment permit issued by the City. Due to the constraints of the existing public right-of-way, surrounding private properties, topography, and the need to maintain traffic flow, construction in some areas will only be allowed within a narrow corridor. Attachment 5 shows the typical cross-section of work for construction done in the public right of way. It was found that at the very minimum at least 25 feet of working width is required for trench excavation and installation of the pipeline.

Equipment and additional construction material will be stored at two temporary construction areas shown on sheet 05-C-1 in Attachment 6. Contractor equipment and storage areas are to be furnished with the appropriate BMPs as identified in their SWPPP to protect surrounding areas from stormwater runoff.

2.c Construction Methods and Timing

This section outlines the construction methods that will be used to install the conveyance facilities and the respective timeline to complete this component of the WRF project. The utilities included in the Project are listed below:

- 10-inch sanitary sewer force main.
- 16-inch sanitary sewer force main.
- 16-inch treated effluent (brine) line.
- 8-inch indirect potable reuse (IPR) supply line.

For the majority of the project, the pipeline will be installed by open trench installation. The contractor will maximize the amount of open trench to install as much fusible pipe as possible at once. The limits of open trench are dependent on maintain traffic flow and right-of-way restrictions within the construction envelope. Attachment 7 shows typical trench sections used throughout the project.

In two locations, the pipeline will be installed via trenchless methods to avoid disturbing wetland surface features and mitigate significant traffic impacts. The trenchless installation segments are shown on Sheets 05-PP-11 and 05-PP-23 in Attachment 8. Trenchless installation between stations 50+60 and 52+10 are to mitigate any impacts to the wetland boundary delineated by the California Department of Fish and Wildlife. The casing installation segment between stations 96+65 and 99+75 is to avoid traffic impacts at the Morro Bay Boulevard and Quintana Road traffic circle and major utility corridors crossing the pipeline alignment.

Attachment 9 shows the parallel force mains and the brine pipeline will be supported by a pre-engineered pipe bridge over Morro Creek to mitigate any disturbance to riparian areas and the delineated wetland boundary shown on the Project Plans.

Notice to proceed for the project is expected to be issued to the Contractor between September and October, 2020. The project is scheduled for substantial completion at the end of May 2022. The construction schedule falls in line with the overall Water Reclamation Facility Program schedule to provide wastewater flows to the WRF during its functional testing phase.

Daily construction is expected to occur as normal throughout the Project's completion. Segments of work that have potential to inhibit access to private businesses along Quintana

Boulevard will be performed by scheduled work outside of business hours but before 10PM as coordinated with the City.

2.d Traffic Control Plan

The traffic handling plans are included in the Project plans on sheets 05-TH-1 through 05-TH-23. These sheets are included in Attachment 4. These drawings represent the general traffic handling approach developed by the City and are not intended to direct the Contractor means and methods for traffic control, but only serve as a guide in the plan development. The Contractor is required to submit a detailed traffic control plan to the City for review prior to any construction activities. The traffic handling plans separate the project into several zones to minimize impacts to adjacent businesses and residences to maintain access during construction. Attachment 10 shows these work zones with respect to the surrounding streets that will be open during Construction. Segments where traffic must be maintained and without reasonable traffic detours will require the Contractor to work within a minimum construction width in order to adequately maintain traffic through the City. Areas where a traffic detour cannot be placed or access to a private property cannot be maintained will require the Contractor to work at time periods outside of heavy traffic and business hours. Stages 1 through 7 of the Traffic Handling Plans show to have enough space to accommodate traffic flow in both directions during construction. Stage 8 and part of 11 and 12 through 17 as well as stages 19 through 21 will be limited to one-way controlled traffic. Stages 9, 10, part of 11 and 18 will have traveled ways completely closed and detoured through the construction area.

2.e Property Owner's Consent

Permanent installation of any facilities on private property will require a permanent utility easement acquired by the City from the property owner. Attachment 11 shows a project right-of-way map included in the CDR which outlines private properties with respect to the pipeline alignment. The proposed properties for both Lift Station A and B are already owned by the City and will not require easements. Attachment 11 shows the alignment of the pipelines will encroach Caltrans right-of-way near Atascadero Road. The Contractor is required to acquire a parallel utility encroachment permit for this installation. Additionally, a longitudinal encroachment permit is required for the Project where the pipeline alignment crosses beneath the Highway 1 overpass at South Bay Boulevard. This encroachment is shown on Sheet 2.

The alignment also encroaches into the Vistra and PG&E right of way and will require a temporary construction easement from the PG&E and Vistra Energy properties for the work that parallels highway 1. Per the project plans, the Contractor is to abide by Vistra Energy and PG&E existing property access and security specific requirements during construction. Sheet 2 on Attachment 11 shows the City has an existing water line and bike path easement through the property owned by PG&E and Vistra Energy. The City has obtained a 70-foot easement for construction and future operations and maintenance of the conveyance facilities. The City is currently working through the final elements of the eminent domain process with Vistra and PG&E. However, the City has been granted pre-judgement possession allowing them to access these areas while the details of the eminent domain process is finalized.

Sheet 05-PP-22 on Attachment 8 shows additional encroachment on private property for the installation of the microtunneling launching shaft and the rerouting of the City's Storm drain system near station 96+00. The City is currently in the process of acquiring this property prior to construction of these pipeline segments and their appurtenances.

2.f Best Management Practices

Technical specification section 01140 – Water Pollution Control outlines the criteria the contractor shall comply with while performing any construction. Per this specification, the Contractor shall prepare a Stormwater Pollution Prevention Plan (SWPPP) prior to the commencement of any construction activities. Typical best management practices (BMPs) for this project will include protecting storm drain inlets from silt carried by stormwater runoff, dewatering operation management, slope erosion control, and silt fences for natural habitats and wetlands. Attachment 12 shows an example of specific requirements that must be met by the Contractor SWPPP in relation to wetland boundaries on Sheets 05-PP-07, 05-PP-11, and 05-PP-12.

2.g Post-Construction

The areas impacted by construction are to be completely restored to their original condition per the trench sections provided in the Project Plans as shown in Attachment 7. Areas where the pipeline will encroach on the Caltrans southbound Highway 1 onramp embankment will be hydroseeded per Caltrans Standard Plan H52. For this project the disturbance will generally be to the existing ground by means of open cut trench excavation. Developed surfaces such as asphalt roadway pavement, concrete sidewalk, or curb and gutter will be replaced in kind as shown in the Pavement Restoration and Rehabilitation Plan in the Project Plans on Sheets 06-C-1 through 06-C-5 shown in Attachment 13. Stormwater management infrastructure BMPs are only to be installed on a temporary basis as directed by the Project SWPPP. This project does not include any permanent BMPs for stormwater capture and reuse.

2.h Construction Site Documents

A public copy of the signed CDP and approved construction plan will be made available for review at the City of Morro Bay Public Works Office located at 955 Shasta Avenue, Morro Bay, CA 93442. A signed copy of the CDP and approved construction plan will be provided and maintained for record at the California Coastal Commission's Central Coast Office located at 725 Front Street #300, Santa Cruz, CA 95060.

2.i Construction Manager

The City of Morro Bay has retained a construction oversight lead as a member of the Program Management team for the Project who will oversee the contractor's efforts and act as the main point of contact for the Project and be lead coordinator for correspondence with regards to the Project. The construction oversight lead will be present onsite for all construction activities for the Lift Stations and Offsite Pipelines Project. The construction oversight lead will be available 24 hours a day during the duration of construction. If any complaints or inquiries are received by the construction oversight lead, the contact information shall be recorded and investigate the complaints. Any critical or significant complaints will be reported to the Executive Director as soon as possible. A summary of any complaints and related actions will be provided to the Executive Director on a weekly basis. The contact information for the construction oversight lead is:

Thomas Zittercob - Carollo Engineers, Inc.
tzittercob@carollo.com
(559) 267-8666

2.j Construction Specifications

The Project Contractual and Technical Specifications are included as Appendix B of this Special Conditions Report.

2.k Notifications

The Project team and the City will notify the Coastal commission a minimum of three (3) working days in advance of construction and immediately upon completion of construction.

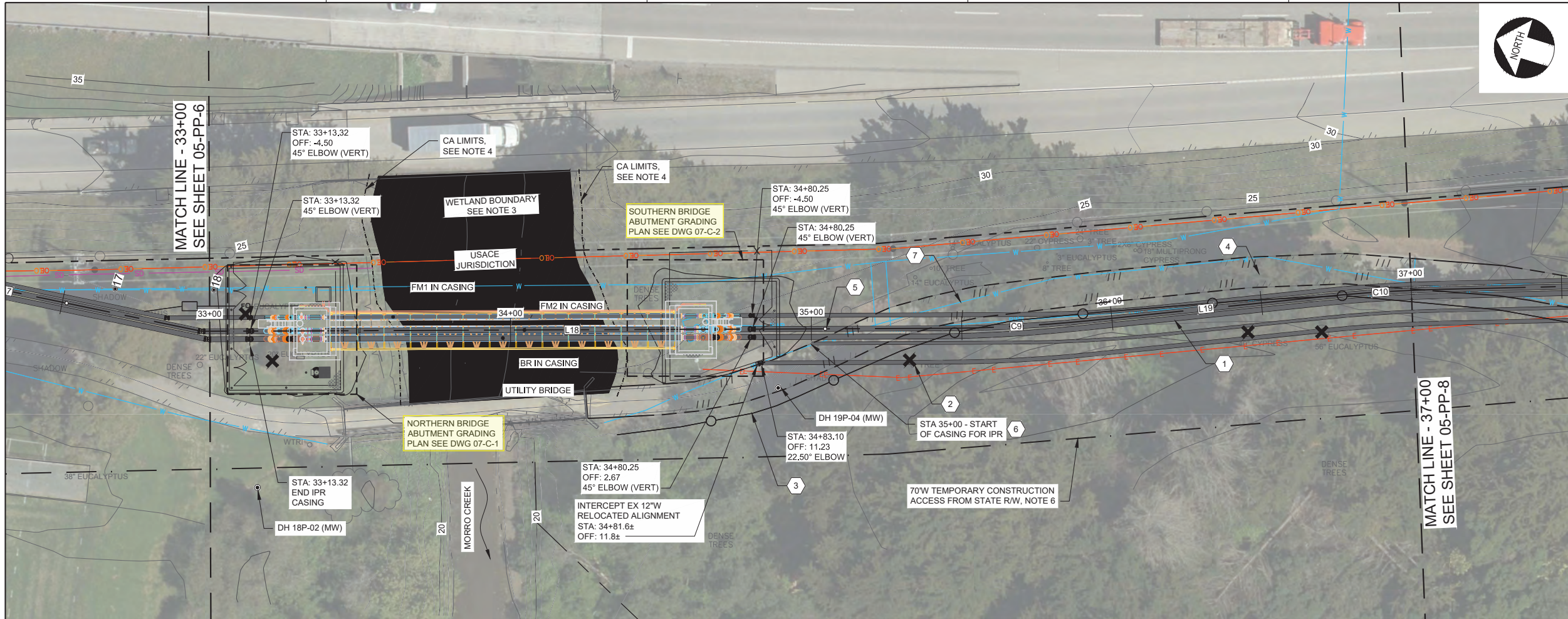
Appendix D

ATTACHMENTS

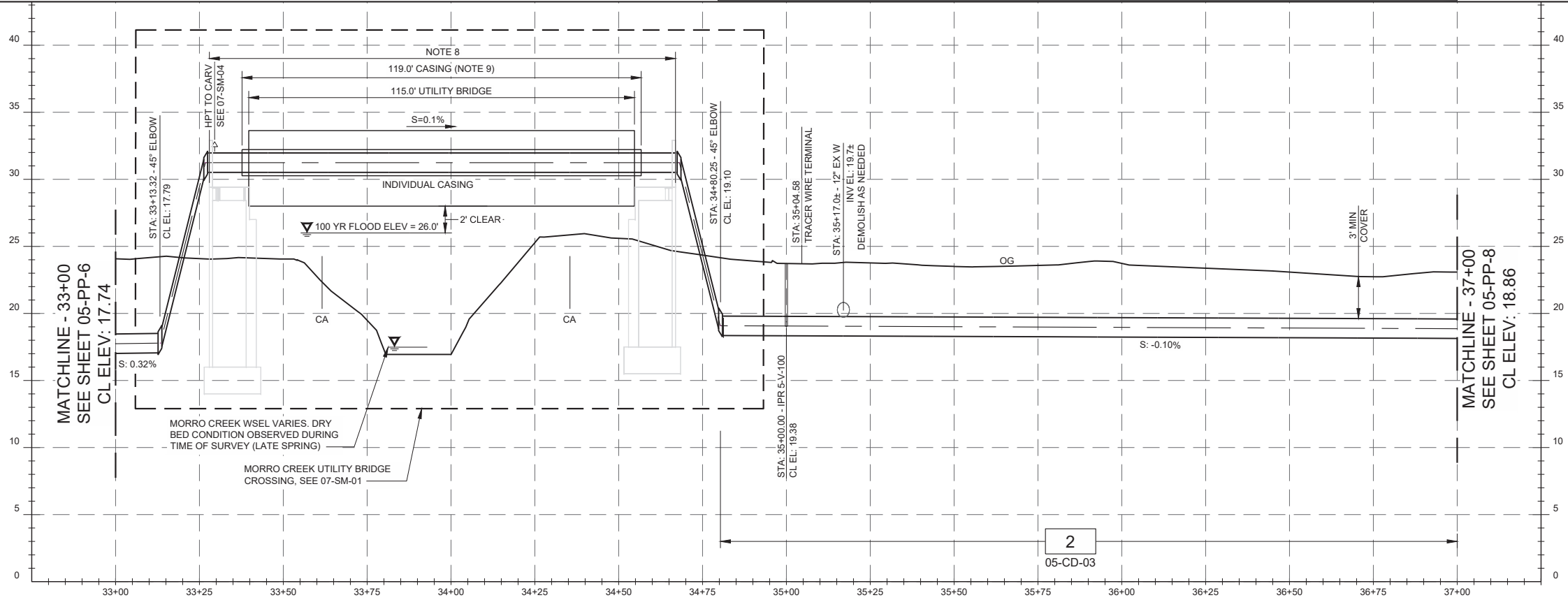


Attachment 1 - Project Alignment

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|---------------------------------------|---|---|
| CONTINUATION SEE PREVIOUS SHEET | FO (4" 1/8 WSP) | FO (4" FPVC C900 DR-25 OR 4" HDPE 4710 IPS DR-21 OR 4" SCH-40 PVC1) |
| | FM1 (10" DIP, NOTE 9) IN CASING (14" 1/8 WSP) | FM1 (10" FPVC C900 DR-25 OR 12" HDPE 4710 IPS DR-17) |
| | FM2 (16" DIP, NOTE 9) IN CASING (20" 1/8 WSP) | FM2 (16" FPVC C900 DR-25 OR 18" HDPE 4710 IPS DR-17) |
| | BR (16" DIP, NOTE 9) IN CASING (20" 1/8 WSP) | BR (16" FPVC C900 DR-25 OR 18" HDPE 4710 IPS DR-17) |
| | | IPR (8" FPVC DR-25 OR 10" HDPE 4710 IPS DR-17) IN CASING PER DET 1/05-CD-15 |
| | | 12"W (12" FPVC C900 DR-18) IN CASING PER DET 1/05-CD-15 |

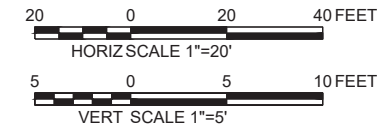


NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH THE GENERAL CIVIL NOTES AND PERMITTING GENERAL NOTES.
2. HORIZONTAL ALIGNMENT AND PROFILE VERTICAL CURVES HEREIN ARE DESIGNED WITH THE MIN BENDING RADIUS OF THE LARGEST PIPELINE ASSUMING FPVC IS SELECTED. SMALLER BEND RADI MAY BE FEASIBLE DEPENDING ON THE PIPELINE MATERIAL AND LOCATION. THE CONTRACTOR MAY SUBMIT FOR APPROVAL MINOR HORIZONTAL ALIGNMENT CHANGES AND PROFILE VERTICAL CHANGES SO AS IT REDUCES FIELD CONFLICTS, REDUCES FITTINGS WHERE POSSIBLE, IS NOT ZERO SLOPED, AND DOES NOT RESULT IN A HIGH-SPOT.
3. WETLAND BOUNDARY IS REPRESENTATIVE OF CDFW/RWQCB/CCC JURISDICTION AS DELINEATED IN THE PROJECT BIOLOGICAL RESOURCES ASSESSMENT (KMA 2019).
4. CONSTRUCTION ACTIVITY (CA) LIMITS OFFSET 3' FROM EDGE OF WETLAND BOUNDARY. GROUND DISTURBING ACTIVITIES SHALL NOT EXTEND PAST CA LIMITS. SWPPP BMPs SHALL BE INSTALLED PER APPROVED SWPPP PLAN AT A MINIMUM ALONG CA LIMITS.
5. EXCAVATION WITHIN 6' OF PP SHALL BE COORDINATED WITH PGE AND MAY REQUIRE CONSTRUCTION PHASE SUPPORT.
6. CONTRACTOR SHALL PREPARE, SUBMIT FOR REVIEW, AND IMPLEMENT A SITE SECURITY PLAN WHEREBY THE VISTRA PRIVATE PROPERTY SHALL BE SECURED AT ALL TIMES VIA TEMPORARY FENCING AT THE LIMITS OF THE TEMPORARY CONSTRUCTION EASEMENT.
7. TREES NOT MARKED FOR REMOVAL WITHIN THE TEMPORARY CONSTRUCTION EASEMENT LIMITS AND OVER 6" DBH SHALL BE PROTECTED IN PLACE AND MAY BE TRIMMED PER THE PROJECT ARBORISTS RECOMMENDATIONS. TREES SMALLER THAN 6" DBH MAY BE REMOVED BY THE CONTRACTOR AS PART OF CLEARING AND GRUBBING OPERATIONS WITHIN TEMPORARY CONSTRUCTION ACCESS LIMITS IN COORDINATION WITH PROJECT BIOLOGIST AND ARBORIST. IF DELINEATED, ENVIRONMENTALLY SENSITIVE AREAS SHALL BE CORDONED OFF PER BIOLOGIST'S RECOMMENDATIONS.
8. PRESSURE TESTING FOR THE CARRIER PIPELINES ALONG THE UTILITY BRIDGE AND ABUTMENTS SHALL BE CONDUCTED INDIVIDUALLY AND MAY NOT EXCEED THE FOLLOWING PRESSURES: FM1 (50 PSI), FM2 (30 PSI), BR (90 PSI).
9. ENCASED CARRIER PIPE SHALL BE PRJ DIP AND SHALL ACCOMMODATE UP TO 1.05" OF LINEAR EXPANSION OR 120-DEG THERMAL EXPANSION FROM AT A NEUTRAL SETTING, WHICHEVER IS GREATER. ANNUAL SPACE TO CASING SHALL REMAIN UNFILLED.

CONSTRUCTION KEY NOTES:

1. INSTALL WRF OFFSITE PIPELINES, VALVES, AND APPURTENANCES PER HORIZONTAL PLAN AND VERTICAL PROFILE. ALIGNMENT IS CL OF FM2 UNLESS OTHERWISE NOTED. ORDER, PLACEMENT, AND REQUIRED CLEARANCES SHALL BE DETERMINED PER SPECIFIED TRENCH DETAIL UNDER PROFILE. SIZE & CLASS OF CARRIER AND/OR CASING PIPE MATERIALS ARE LISTED SCHEMATICALLY ABOVE PROFILE.
2. TREE REMOVAL, TYP OF 5. SEE NOTE 7.
3. REPLACE 271-LF 6'-0" CHAIN LINK FENCE WITH BARBED WIRE 45-DEG ARM PER (2800) REUSE AND REINSTALL EX VISTRA ACCESS GATES WHERE PRESENT.
4. REPLACE 260-LF EX BIKE PATH PER DETAIL 1/05-CD-10.
5. INSTALL TRACER WIRE TERMINAL (2060) AND GROUND ROD. (16410)
6. 5-V-100 PER (2200) . TERMINATE WITH CAPPED 5'-0" SPOOL.
7. 12" PVC W TO BE ABANDONED AND FILLED WITH TYPE 2 LCC OR DEMOLISHED AS NEEDED IN CONJUNCTION WITH APPROVED BYPASS PLAN.



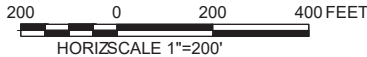
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| DRAWING NUMBER 05-PP-7 | | | |
| SHEET NUMBER 30 | | | |

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GENERAL NOTES:

1. THESE DRAWINGS PRESENT THE GENERAL TRAFFIC HANDLING APPROACH DEVELOPED BY THE CITY AND ARE NOT INTENDED TO DIRECT THE CONTRACTOR'S MEANS AND METHODS FOR TRAFFIC CONTROL. THE STAGES ARE SHOWN TO GENERALLY DEFINE WORK AREAS THAT MINIMIZE IMPACT TO ADJACENT BUSINESSES AND RESIDENCES AND MAINTAIN ACCESS DURING CONSTRUCTION. THE FOOTPRINT OF THE TRAFFIC CONTROL COMPONENTS AND WORK ZONES DELINEATED HEREIN ARE APPROXIMATE, MAY BE INCOMPLETE, AND MAY EXTEND BEYOND THE LIMITS OF INDIVIDUAL PLAN SHEETS. CONTRACTOR SHALL NOT IMPLEMENT TRAFFIC CONTROL AND PERFORM WORK IN MULTIPLE STAGES WITHOUT PRIOR APPROVAL FROM THE CONSTRUCTION MANAGER. SPECIFIC EXCEPTIONS ARE NOTED ON THE DRAWINGS.
2. THE CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS PREPARED BY A LICENSED TRAFFIC ENGINEER OR A QUALIFIED TRAFFIC CONTROL CONTRACTOR TO THE CITY OF MORRO BAY AND THE CALIFORNIA DEPARTMENT OF TRANSPORTATION TO ACQUIRE ENCROACHMENT PERMITS AND IMPLEMENT TRAFFIC CONTROL IN CITY AND STATE R/W THAT CONFORM, AT A MINIMUM, WITH CURRENT EDITION MUTCD AND MUTCD CALIFORNIA SUPPLEMENT REQUIREMENTS AND SECTION 12 OF CALTRANS STANDARD SPECIFICATIONS, AND CA ADA REQUIREMENTS. CONTRACTOR SHALL PROVIDE CALTRANS LANE CLOSURE SYSTEM (LCS) COMPLIANCE.
3. CONTRACTOR SHALL WORK IN ONE TRAFFIC HANDLING WORK ZONE AT A TIME, AND CONTRACTOR SHALL BE LIMITED TO ONE (1) WEEK TO TRANSITION BETWEEN CONTIGUOUS TRAFFIC HANDLING WORK ZONES.
4. THE CONTRACTOR SHALL AT ALL TIMES PROVIDE ACCESS FOR EMERGENCY VEHICLES, INCLUDING BUT NOT LIMITED TO PARAMEDICS, FIRE DEPARTMENT, AND LAW ENFORCEMENT.
5. THE TRAFFIC CONTROL PLANS SHALL ACCOMMODATE PUBLIC SERVICES SUCH AS GARBAGE COLLECTION, MAIL/PARCEL DELIVERY, PUBLIC TRANSPORTATION, AND SCHOOL TRAFFIC. THE TRAFFIC CONTROL PLANS SHALL ACCOMMODATE AND DIRECT LOCAL TRAFFIC FOR RESIDENTIAL AND BUSINESS ACCESS WHEN ACCESS IS IMPACTED BY CONSTRUCTION AND ADDRESS SIDEWALK CLOSURES AND PEDESTRIAN ACCESS TO RESIDENCES AND BUSINESSES.
6. THE CITY HAS DESIGNATED A PROGRAM OUTREACH TEAM THAT SHALL FACILITATE AND TRACK ALL COMMUNICATION WITH THE COMMUNITY ON CONSTRUCTION IMPACTS. THE CONTRACTOR SHALL COORDINATE ALL OUTREACH AND COMMUNITY ENGAGEMENT ACTIVITIES THROUGH THE CONSTRUCTION MANAGER AND IN COORDINATION WITH THE PROGRAM OUTREACH TEAM. THE CONSTRUCTION MANAGER WILL ESTABLISH THE COMMUNICATION PLAN BETWEEN THE CONTRACTOR AND PROGRAM OUTREACH TEAM PRIOR TO THE START OF CONSTRUCTION. ALL REFERENCES ON THESE DRAWINGS TO COORDINATION WITH THE CONSTRUCTION MANAGER ARE ASSUMED TO BE IN COORDINATION WITH THE COMMUNICATION PLAN.
7. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF ONE CONTINUOUS INGRESS/EGRESS TO PROPERTIES TO ACCOMMODATE RESIDENTIAL ACCESS AND/OR BUSINESS OPERATIONS DURING BUSINESS HOURS. COORDINATE ALL COMMUNICATION WITH PROPERTY AND BUSINESS OWNERS WITH THE CONSTRUCTION MANAGER. THESE DRAWINGS IDENTIFY PROPERTIES THAT WILL REQUIRE COORDINATION TO ACCOMMODATE LARGE VEHICLES, HIGH TRAFFIC VOLUMES, SINGLE-DIRECTION INGRESS/EGRESS, OR SINGLE ENTRANCES. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE CONSTRUCTION MANAGER AND PROPERTY OWNERS TO PROVIDE FOR ACCESS TO ALL PROPERTIES AFFECTED BY CONSTRUCTION.
8. WORK ACROSS OR IMPEDING SINGLE ACCESS DRIVEWAYS PRIVATE PROPERTIES SHALL BE COMPLETED OUTSIDE OF BUSINESS HOURS FOR THE AFFECTED PROPERTY AND BEFORE 10:00 PM.
9. CONTRACTOR SHALL COORDINATE CONSTRUCTION NOTICES WITH THE CONSTRUCTION MANAGER. IDENTIFY PROPERTIES THAT WILL BE IMPACTED BY CONSTRUCTION IN THE THREE-WEEK LOOKAHEAD TO COORDINATE PROPERTY AND BUSINESS OWNER NOTIFICATIONS. THE PROGRAM OUTREACH TEAM WILL NOTIFY AFFECTED PROPERTIES TWO WEEKS PRIOR TO IMPLEMENTING TRAFFIC CONTROL AS THE WORK PROGRESSES. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS, RESIDENTS, AND BUSINESS OWNERS PRIOR TO ANY CONSTRUCTION ACTIVITIES THAT IMPACT INGRESS/EGRESS IN COORDINATION WITH THE CONSTRUCTION MANAGER, AND SUCH NOTIFICATION SHALL BE MADE 7 DAYS PRIOR AND 24 HOURS PRIOR TO CLOSURE OR IMPACT OF INGRESS/EGRESS POINTS. THE PROGRAM OUTREACH TEAM WILL DEVELOP ALL NOTIFICATIONS, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRINTING THE MATERIALS. THE CONTRACTOR SHALL DESIGNATE A LEAD THAT WILL COORDINATE ALL COMMUNICATION WITH THE PUBLIC THROUGH THE CONSTRUCTION MANAGER.
10. SENSITIVE NOISE RECEPTORS SUCH AS MOBILE HOMES, PERMANENT RESIDENCES, HOTELS, AND PLACES OF WORSHIP MAY BE PRESENT ALONG THE WORK CORRIDOR. THE CONTRACTOR SHALL COORDINATE WITH THE CONSTRUCTION MANAGER AND IMPLEMENT CONSTRUCTION NOISE REDUCTION MEASURES/PLAN. CONSTRUCTION WORK WITHIN A CERTAIN MINIMUM DISTANCE FROM SENSITIVE NOISE RECEPTORS MAY BE RESTRICTED DURING OFF-WORK-HOURS.
11. THESE DRAWINGS INCLUDE NOTES SPECIFIC TO EACH STAGE ON EACH SHEET (STAGE SPECIFIC NOTES). THE STAGE SPECIFIC NOTES ARE INTENDED TO IDENTIFY SPECIFIC OR UNIQUE CONDITIONS THAT THE CONTRACTOR SHALL CONSIDER IN PREPARING TRAFFIC CONTROL PLANS. CONTRACTOR SHALL CONFIRM ALL TRAFFIC CONDITIONS TO PREPARE THE TRAFFIC CONTROL PLANS.



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CITY OF MORRO BAY
WATER RECLAMATION FACILITY
LIFT STATION AND OFFSITE
PIPELINES

TRAFFIC HANDLING
PROJECT OVERVIEW AND KEY
MAP 1

DATE
MAY 2020
PROJECT NUMBER
17-082
DRAWING NUMBER
05-TH-1
SHEET NUMBER 70

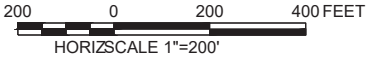
JOB NUMBER: 17-082

FILENAME: 1782D-05TC100.DWG

PLOT DATE: 06/12/20

PLOT TIME: 12:15:31

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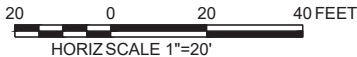


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|--|--|--|--|---|--|---|--|-----------------|--|
|  <div>WATERWORKS ENGINEERING 2260 Douglas Blvd, Suite 105 • Roseville, CA 95661 • 916-790-2888</div> | | CITY OF MORRO BAY WATER RECLAMATION FACILITY LIFT STATION AND OFFSITE PIPELINES | | TRAFFIC HANDLING PROJECT OVERVIEW AND KEY MAP 2 | | DATE MAY 2020 PROJECT NUMBER 17-082 DRAWING NUMBER 05-TH-2 | | SHEET NUMBER 71 | |
| DESIGN P WEBSTER | | | | | | | | | |
| DRAWN P WEBSTER | | | | | | | | | |
| CHECKED T LEWIS | | | | | | | | | |
| APPROVED M FISHER | | | | | | | | | |



- NOTES:
1. THE CONTRACTOR SHALL COMPLY WITH THE GENERAL TRAFFIC CONTROL NOTES LISTED ON DWG 05-TH-01.
- CONSTRUCTION KEY NOTES:
1. ACCOMMODATE HIGH SCHOOL ACCESS. COORDINATE COMMUNICATION WITH PROGRAM OUTREACH TEAM.
 2. ACCOMMODATE LARGE VEHICLE TRAFFIC.

- LEGEND:
- DELINEATOR/CONES
 - ▨ WORK ZONE
 - ⊥ BARRICADE
 - DIRECTION OF TRAFFIC
 - BARRIER



| | |
|----------|------------|
| DESIGN | P. WEBSTER |
| DRAWN | P. WEBSTER |
| CHECKED | T. LEWIS |
| APPROVED | M. FISHER |

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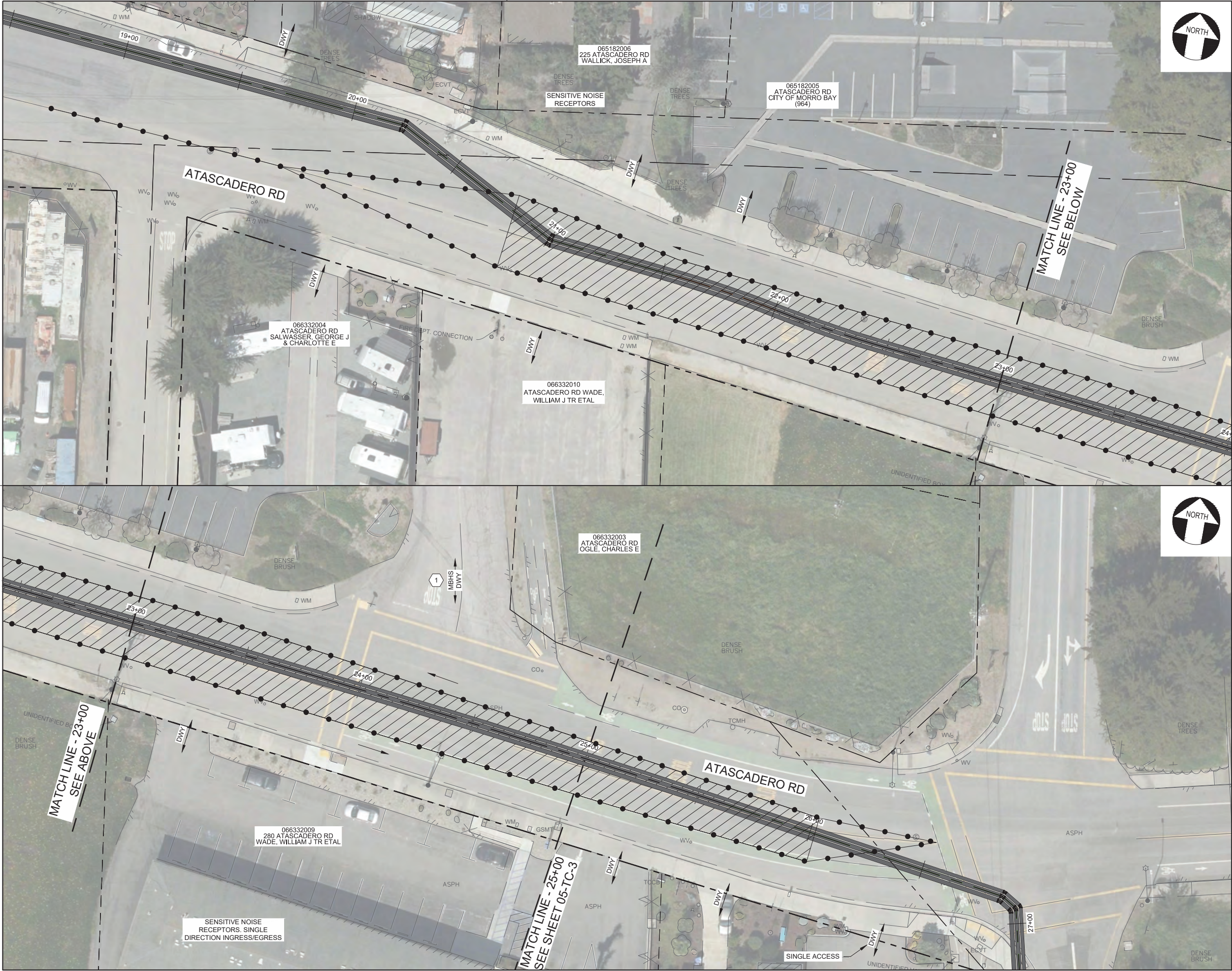
CITY OF MORRO BAY
WATER RECLAMATION FACILITY
LIFT STATION AND OFFSITE
PIPELINES

TRAFFIC HANDLING
STAGE 2

| | |
|----------------|----------|
| DATE | MAY 2020 |
| PROJECT NUMBER | 17-082 |
| DRAWING NUMBER | 05-TH-5 |
| SHEET NUMBER | 74 |

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NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH THE GENERAL TRAFFIC CONTROL NOTES LISTED ON DWG 05-TH-01.

CONSTRUCTION KEY NOTES:

1. PEDESTRIAN AND BICYCLE TRAFFIC TO BE DIVERTED AROUND WORK ZONE IN ACCORDANCE WITH CALTRANS EP/TCP.
2. ACCOMMODATE PEDESTRIANS AND BICYCLE TRAFFIC PER CA MUTCD 2014 ED SECTION 6D.01 AND INSTALL/MAINTAIN A 60"W SMOOTH, CONTINUOUS HARD SURFACE.
3. PEDESTRIAN AND BICYCLE TRAFFIC TO BE DIVERTED AROUND WORK ZONE IN ACCORDANCE WITH CITY EP/TCP.
4. CLOSE BIKE PATH AND PREPARE BIKE TRAFFIC DIVERSION PLAN IN COORDINATION WITH THE CONSTRUCTION MANAGER.

LEGEND:

- DELINEATOR/CONES
- ▨ WORK ZONE
- ▬ BARRICADE
- DIRECTION OF TRAFFIC
- BARRIER

20 0 20 40 FEET
HORIZ SCALE 1"=20'



| | |
|----------|------------|
| DESIGN | P. WEBSTER |
| DRAWN | P. WEBSTER |
| CHECKED | T. LEWIS |
| APPROVED | M. FISHER |

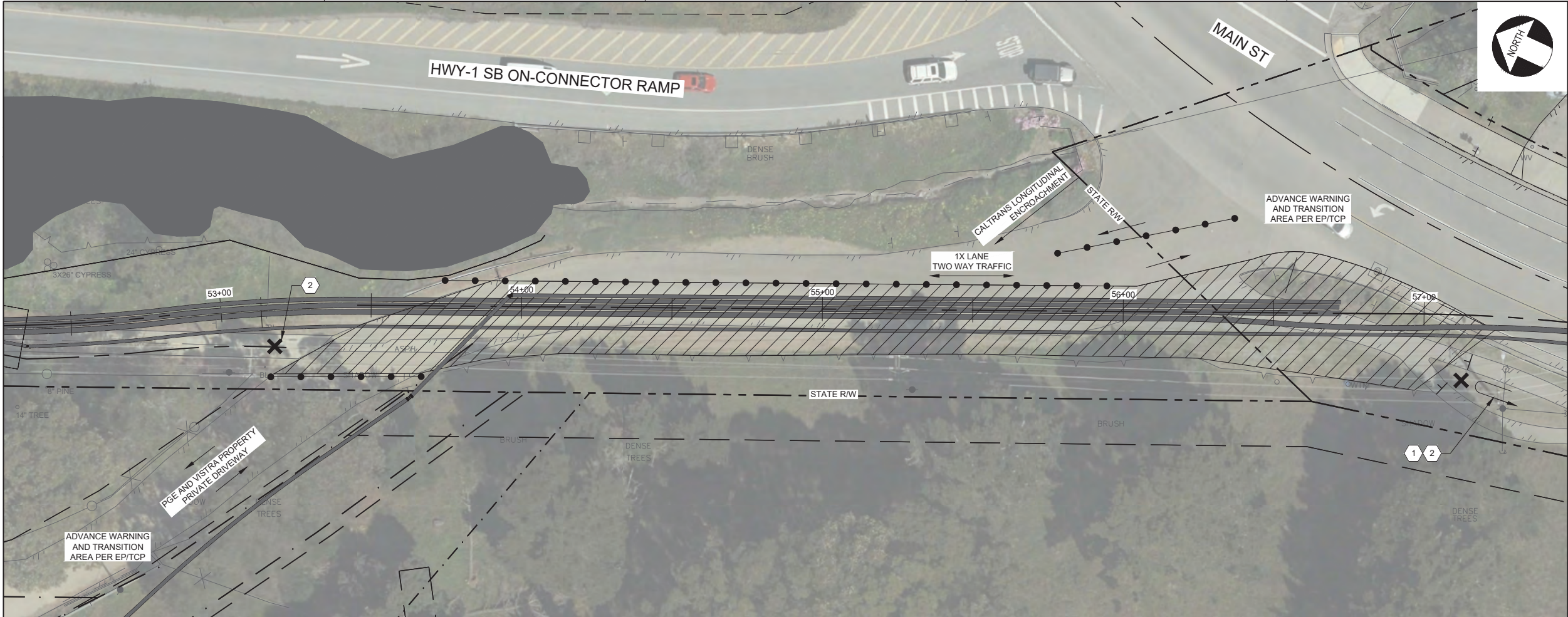


CITY OF MORRO BAY
WATER RECLAMATION FACILITY
LIFT STATION AND OFFSITE
PIPELINES

TRAFFIC HANDLING
STAGE 4

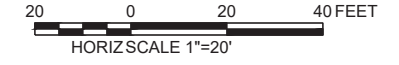
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|----------------|----------|
| DATE | MAY 2020 |
| PROJECT NUMBER | 17-082 |
| DRAWING NUMBER | 05-TH-7 |
| SHEET NUMBER | 76 |

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- NOTES:
1. THE CONTRACTOR SHALL COMPLY WITH THE GENERAL TRAFFIC CONTROL NOTES LISTED ON DWG 05-TH-01.
- KEY NOTES:
1. PEDESTRIAN AND BICYCLE TRAFFIC TO BE DIVERTED AROUND WORK ZONE IN ACCORDANCE WITH EP/TCP.
 2. CLOSE BIKE PATH AND PREPARE BIKE TRAFFIC DIVERSION PLAN IN COORDINATION WITH THE CONSTRUCTION MANAGER.

- LEGEND:
- DELINEATOR/CONES
 - ▨ WORK ZONE
 - BARRICADE
 - DIRECTION OF TRAFFIC
 - BARRIER



| | | | |
|--|---------------------|---------------------|-----------------------|
| DESIGN P. WEBSTER | DRAWN P. WEBSTER | CHECKED T. LEWIS | APPROVED M. FISHER |
| CITY OF MORRO BAY WATER RECLAMATION FACILITY LIFT STATION AND OFFSITE PIPELINES | | | |
| TRAFFIC HANDLING STAGE 6 | | | |
| DATE MAY 2020 | | | |
| PROJECT NUMBER 17-082 | | | |
| DRAWING NUMBER 05-TH-9 | | | |
| SHEET NUMBER 78 | | | |

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- NOTES:
1. THE CONTRACTOR SHALL COMPLY WITH THE GENERAL TRAFFIC CONTROL NOTES LISTED ON DWG 05-TH-01.
- KEY NOTES:
1. CONTRACTOR SHALL PREPARE TRAFFIC CONTROL PLAN FOR TRAFFIC HANDLING DURING PS-B CONSTRUCTION.
 2. CONTRACTOR SHALL ACCOMMODATE LARGE VEHICLE TRAFFIC AND COORDINATE WITH THE CONSTRUCTION MANAGER ON NOTIFICATION.

- LEGEND:
- DELINEATOR/CONES
 - ▨ WORK ZONE
 - BARRICADE
 - DIRECTION OF TRAFFIC
 - BARRIER

20 0 20 40 FEET
HORIZSCALE 1"=20'



| | |
|----------|------------|
| DESIGN | P. WEBSTER |
| DRAWN | P. WEBSTER |
| CHECKED | T. LEWIS |
| APPROVED | M. FISHER |

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WATER RECLAMATION FACILITY
LIFT STATION AND OFFSITE
PIPELINES

TRAFFIC HANDLING
STAGE 7

| | |
|----------------|----------|
| DATE | MAY 2020 |
| PROJECT NUMBER | 17-082 |
| DRAWING NUMBER | 05-TH-10 |
| SHEET NUMBER | 79 |

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- NOTES:
1. THE CONTRACTOR SHALL COMPLY WITH THE GENERAL TRAFFIC CONTROL NOTES LISTED ON DWG 05-TH-01.
- KEY NOTES:
1. CONTRACTOR SHALL ACCOMMODATE LARGE TRUCK DELIVERY TRAFFIC FOR BUSINESS AT 355 QUINTANA PLACE IN COORDINATION WITH THE CONSTRUCTION MANAGER. CONTRACTOR MAY BE REQUIRED TO INSTALL PIPELINES ACROSS QUINTANA PLACE OUTSIDE OF BUSINESS HOURS AND BEFORE 10 PM TO ENSURE NO INTERRUPTION IN SERVICE FOR LARGE TRUCK DELIVERIES.

- LEGEND:
- DELINEATOR/CONES
 - ▨ WORK ZONE
 - ⊥ BARRICADE
 - DIRECTION OF TRAFFIC
 - ▬ BARRIER



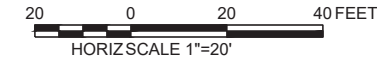
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|--|---------------------|---------------------|-----------------------|
| DESIGN P. WEBSTER | DRAWN P. WEBSTER | CHECKED T. LEWIS | APPROVED M. FISHER |
| CITY OF MORRO BAY WATER RECLAMATION FACILITY LIFT STATION AND OFFSITE PIPELINES | | | |
| TRAFFIC HANDLING STAGE 7 | | | |
| DATE MAY 2020 | | | |
| PROJECT NUMBER 17-082 | | | |
| DRAWING NUMBER 05-TH-11 | | | |
| SHEET NUMBER 80 | | | |

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- NOTES:
1. THE CONTRACTOR SHALL COMPLY WITH THE GENERAL TRAFFIC CONTROL NOTES LISTED ON DWG 05-TH-01.
- KEY NOTES:
1. DRIVEWAY TO 400 QUINTANA ROAD SHALL ONLY BE USED FOR ACCESS TO BUSINESSES IN SHOPPING PLAZA AT 400 QUINTANA ROAD.
 2. THE CONTRACTOR WILL BE PERMITTED TO CLOSE QUINTANA ROAD BETWEEN THE DRIVEWAY ACCESS FOR 400 QUINTANA ROAD AND KENNEDY WAY AS A WORK ZONE FOR CONSTRUCTION IN ADJACENT STAGES. TRAFFIC CONTROL PLANS MUST ACCOMMODATE LOCAL BUSINESS TRAFFIC AND ALLOW FOR EMERGENCY ACCESS THROUGH WORK ZONE. THIS SECTION OF QUINTANA SHALL NOT BE CLOSED DURING CONSTRUCTION IN THE INTERSECTION OF QUINTANA ROAD AND KENNEDY WAY.
 3. COORDINATE QUINTANA ROAD/KENNEDY WAY INTERSECTION CONSTRUCTION SCHEDULE AND SEQUENCING WITH CONSTRUCTION MANAGER. CONTRACTOR SHALL SEQUENCE CONSTRUCTION TO ACCOMMODATE LOCAL TRAFFIC. CONTRACTOR SHALL NOT BE PERMITTED TO DIVERT TRAFFIC ONTO PRIVATE PROPERTY DURING INTERSECTION CONSTRUCTION. MAINTAIN ONE-WAY TRAFFIC ON QUINTANA DURING INTERSECTION CONSTRUCTION TO ACCOMMODATE EMERGENCY ACCESS.
 4. CONTRACTOR WILL NOT BE PERMITTED TO CLOSE QUINTANA ROAD BETWEEN KENNEDY WAY AND MORRO BAY BOULEVARD DURING CONSTRUCTION IN THE INTERSECTION OF QUINTANA ROAD AND KENNEDY WAY.
 5. TRAFFIC CONTROL PLAN SHALL NOT DIVERT TRAFFIC ONTO PRIVATE PROPERTY DURING CONSTRUCTION.

- LEGEND:
- DELINEATOR/CONES
 - WORK ZONE
 - BARRICADE
 - DIRECTION OF TRAFFIC
 - BARRIER



| | | | |
|--|---------------------|---------------------|-----------------------|
| DESIGN P. WEBSTER | DRAWN P. WEBSTER | CHECKED T. LEWIS | APPROVED M. FISHER |
| CITY OF MORRO BAY WATER RECLAMATION FACILITY LIFT STATION AND OFFSITE PIPELINES | | | |
| TRAFFIC HANDLING STAGE 9, 10, & 11 | | | |
| DATE MAY 2020 | | | |
| PROJECT NUMBER 17-082 | | | |
| DRAWING NUMBER 05-TH-13 | | | |
| SHEET NUMBER 82 | | | |

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NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH THE GENERAL TRAFFIC CONTROL NOTES LISTED ON DWG 05-TH-01.

KEY NOTES:

1. TRAFFIC CONTROL PLAN SHALL NOT DIVERT TRAFFIC ONTO PRIVATE PROPERTY DURING CONSTRUCTION IN STAGE 11.
2. CONTRACTOR SHALL MAINTAIN ONE-WAY TRAFFIC FOR EMERGENCY ACCESS DURING CONSTRUCTION BETWEEN DRIVEWAY FOR 740 QUINTANA ROAD AND KENNEDY WAY.
3. CONTRACTOR SHALL MAINTAIN ONE-WAY TRAFFIC FOR BUSINESS ACCESS DURING CONSTRUCTION BETWEEN DRIVEWAY FOR 740 QUINTANA ROAD AND MORRO BAY BOULEVARD.
4. CONTRACTOR SHALL ACCOMMODATE TRAFFIC FROM URGENT CARE CLINIC. COORDINATE NOTIFICATION AND TRAFFIC HANDLING WITH THE CONSTRUCTION MANAGER.

LEGEND:

- DELINEATOR/CONES
- ▨ WORK ZONE
- BARRICADE
- DIRECTION OF TRAFFIC
- BARRIER

20 0 20 40 FEET
HORIZ SCALE 1"=20'



| | | | |
|--|---------------------|---------------------|-----------------------|
| DESIGN P. WEBSTER | DRAWN P. WEBSTER | CHECKED T. LEWIS | APPROVED M. FISHER |
| CITY OF MORRO BAY WATER RECLAMATION FACILITY LIFT STATION AND OFFSITE PIPELINES | | | |
| TRAFFIC HANDLING STAGE 11 | | | |
| DATE MAY 2020 | | | |
| PROJECT NUMBER 17-082 | | | |
| DRAWING NUMBER 05-TH-14 | | | |
| SHEET NUMBER 83 | | | |

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NOTES:

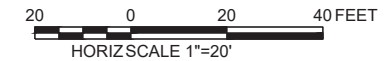
1. THE CONTRACTOR SHALL COMPLY WITH THE GENERAL TRAFFIC CONTROL NOTES LISTED ON DWG 05-TH-01.

KEY NOTES:

1. TRAFFIC CONTROL PLAN SHALL NOT DIVERT TRAFFIC ONTO PRIVATE PROPERTY DURING CONSTRUCTION IN STAGE 11.
2. CONTRACTOR SHALL ACCOMMODATE TRAFFIC FROM URGENT CARE CLINIC. COORDINATE NOTIFICATION AND TRAFFIC HANDLING WITH THE CONSTRUCTION MANAGER.
3. TRAFFIC CONTROL PLAN SHALL ACCOMMODATE SINGLE PROPERTY ENTRANCES.
4. TRAFFIC CONTROL PLAN SHALL ACCOMMODATE AND DIRECT LOCAL BUSINESS TRAFFIC IN THIS STAGE.

LEGEND:

- DELINEATOR/CONES
- ▨ WORK ZONE
- ▬ BARRICADE
- DIRECTION OF TRAFFIC
- BARRIER



| | | | |
|--|---------------------|---------------------|-----------------------|
| DESIGN P. WEBSTER | DRAWN P. WEBSTER | CHECKED T. LEWIS | APPROVED M. FISHER |
| CITY OF MORRO BAY WATER RECLAMATION FACILITY LIFT STATION AND OFFSITE PIPELINES | | | |
| TRAFFIC HANDLING STAGE 11, CONT'D | | | |
| DATE MAY 2020 | | | |
| PROJECT NUMBER 17-082 | | | |
| DRAWING NUMBER 05-TH-15 | | | |
| SHEET NUMBER 84 | | | |

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NOTES:

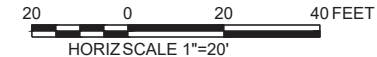
1. THE CONTRACTOR SHALL COMPLY WITH THE GENERAL TRAFFIC CONTROL NOTES LISTED ON DWG 05-TH-01.
2. IF CONTRACTOR UTILIZES LAS TUNAS FOR RECEIVING PORTAL (SHAFT) END OF TRENCHLESS CROSSING, CONTRACTOR SHALL LIMIT CLOSURE OF LAS TUNAS STREET TO ONLY THOSE TIMES DURING CONTINUOUS CONSTRUCTION ACTIVITIES IN STAGE 12 (I.E. RECEIVING PIT CONSTRUCTION, PIPELINE CONSTRUCTION, UTILITY RELOCATION, PAVING, ETC.) LAS TUNAS SHALL REMAIN OPEN FOR TYPICAL PUBLIC USE, INCLUDING VEHICULAR, BICYCLE AND PEDESTRIAN TRAVEL, DURING PERIODS OF LIMITED CONSTRUCTION ACTIVITIES (I.E. NON WORK HOURS, TUNNELING, ETC.). IF CONTRACTOR UTILIZES LAS TUNAS FOR LAUNCHING PORTAL (SHAFT) END OF TRENCHLESS CROSSING, CONTRACTOR MAY CLOSE LAS TUNAS FOR THE DURATION OF TUNNELING ACTIVITIES.

KEY NOTES:

1. CONTRACTOR SHALL COMPLETE CONSTRUCTION IN STAGE 12 AND PROVIDE A DRIVABLE SURFACE BEFORE PROCEEDING WITH CONSTRUCTION IN STAGE 13.

LEGEND:

- DELINEATOR/CONES
- ▨ WORK ZONE
- +— BARRICADE
- DIRECTION OF TRAFFIC
- BARRIER



| | |
|----------|------------|
| DESIGN | P. WEBSTER |
| DRAWN | P. WEBSTER |
| CHECKED | T. LEWIS |
| APPROVED | M. FISHER |

A

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CITY OF MORRO BAY
WATER RECLAMATION FACILITY
LIFT STATION AND OFFSITE
PIPELINES

TRAFFIC HANDLING
STAGE 12

D

| | |
|----------------|----------|
| DATE | MAY 2020 |
| PROJECT NUMBER | 17-082 |
| DRAWING NUMBER | 05-TH-16 |
| SHEET NUMBER | 85 |



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- NOTES:
1. THE CONTRACTOR SHALL COMPLY WITH THE GENERAL TRAFFIC CONTROL NOTES LISTED ON DWG 05-TH-01.
- KEY NOTES:
1. CONTRACTOR SHALL PREPARE TRAFFIC CONTROL PLAN FOR TRAFFIC HANDLING DURING APPURTENANCE CONSTRUCTION.
 2. TRAFFIC CONTROL PLAN SHALL ACCOMMODATE SINGLE PROPERTY ENTRANCES.
 3. COORDINATE QUINTANA ROAD/BELLA VISTA INTERSECTION CONSTRUCTION SCHEDULE AND SEQUENCING WITH CONSTRUCTION MANAGER. CONTRACTOR SHALL SEQUENCE CONSTRUCTION TO ACCOMMODATE LOCAL TRAFFIC. MAINTAIN ONE-WAY TRAFFIC ON QUINTANA DURING INTERSECTION CONSTRUCTION TO ACCOMMODATE EMERGENCY ACCESS.

- LEGEND:
- DELINEATOR/CONES
 - WORK ZONE
 - BARRICADE
 - DIRECTION OF TRAFFIC
 - BARRIER



| | | | |
|--|---------------------|---------------------|-----------------------|
| DESIGN P. WEBSTER | DRAWN P. WEBSTER | CHECKED T. LEWIS | APPROVED M. FISHER |
| CITY OF MORRO BAY WATER RECLAMATION FACILITY LIFT STATION AND OFFSITE PIPELINES | | | |
| TRAFFIC HANDLING STAGE 15, 16, & 17 | | | |
| DATE MAY 2020 | | | |
| PROJECT NUMBER 17-082 | | | |
| DRAWING NUMBER 05-TH-18 | | | |
| SHEET NUMBER 87 | | | |

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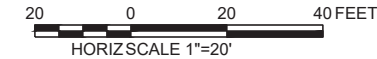


NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH THE GENERAL TRAFFIC CONTROL NOTES LISTED ON DWG 05-TH-01.

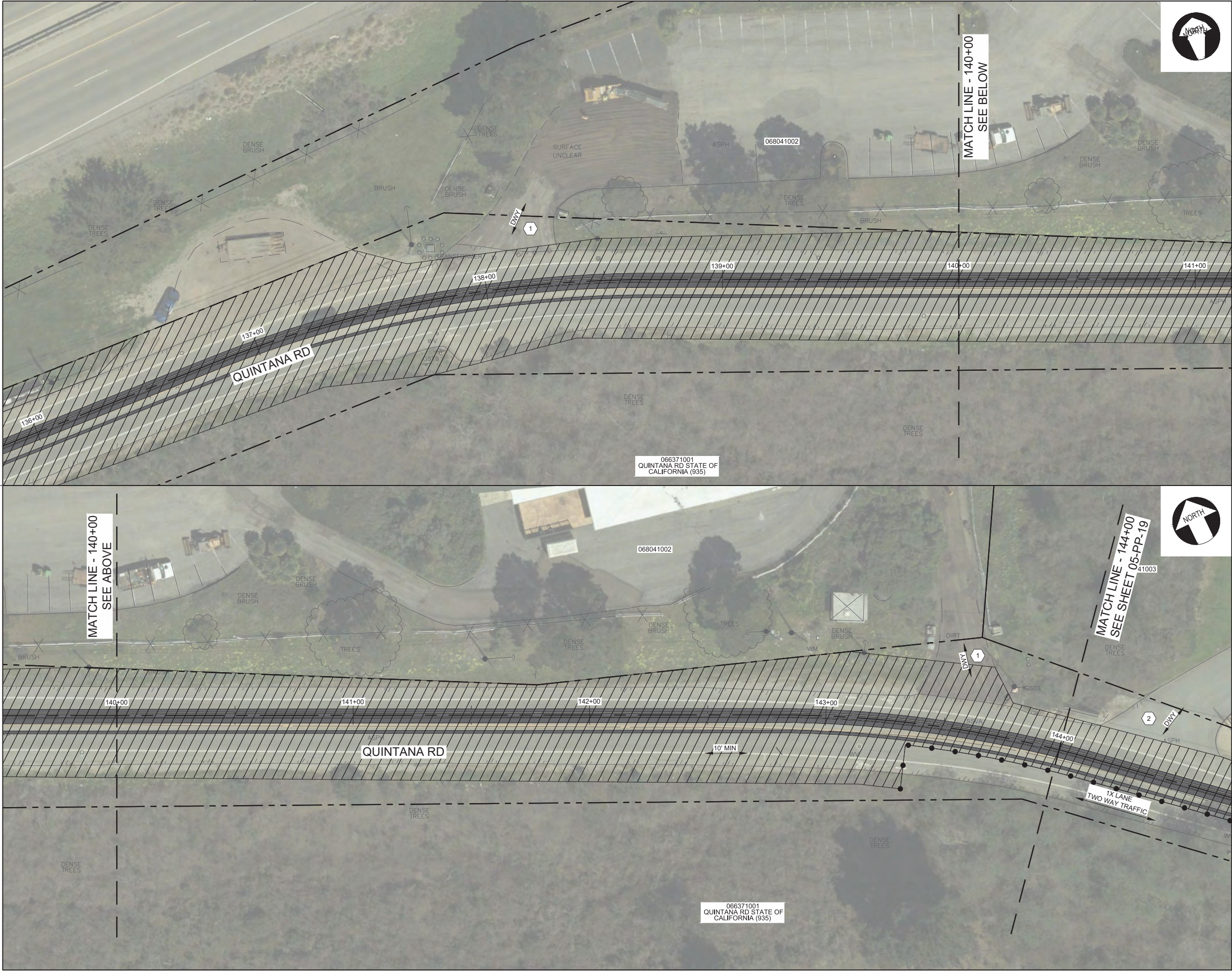
LEGEND:

- DELINEATOR/CONES
- ▨ WORK ZONE
- ⊥ BARRICADE
- DIRECTION OF TRAFFIC
- BARRIER

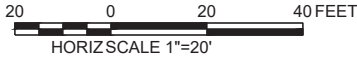


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| DESIGN P. WEBSTER | DRAWN P. WEBSTER | CHECKED T. LEWIS | APPROVED M. FISHER |
| CITY OF MORRO BAY WATER RECLAMATION FACILITY LIFT STATION AND OFFSITE PIPELINES | | | |
| TRAFFIC HANDLING STAGE 18, CONT'D | | | |
| DATE MAY 2020 | | | |
| PROJECT NUMBER 17-082 | | | |
| DRAWING NUMBER 05-TH-20 | | | |
| SHEET NUMBER 89 | | | |

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- NOTES:
1. THE CONTRACTOR SHALL COMPLY WITH THE GENERAL TRAFFIC CONTROL NOTES LISTED ON DWG 05-TH-01.
- KEY NOTES:
1. TRAFFIC CONTROL PLAN SHALL LEAVE AT LEAST ONE PROPERTY ENTRANCE OPEN.
 2. TRAFFIC CONTROL PLAN SHALL ACCOMMODATE SINGLE PROPERTY ENTRANCES.
- LEGEND:
- DELINEATOR/CONES
 - ▨ WORK ZONE
 - |—|— BARRICADE
 - DIRECTION OF TRAFFIC
 - BARRIER



| | | | |
|--|---------------------|---------------------|-----------------------|
| DESIGN P. WEBSTER | DRAWN P. WEBSTER | CHECKED T. LEWIS | APPROVED M. FISHER |
| CITY OF MORRO BAY WATER RECLAMATION FACILITY LIFT STATION AND OFFSITE PIPELINES | | | |
| TRAFFIC HANDLING STAGE 18, CONT'D | | | |
| DATE MAY 2020 | | | |
| PROJECT NUMBER 17-082 | | | |
| DRAWING NUMBER 05-TH-21 | | | |
| SHEET NUMBER 90 | | | |

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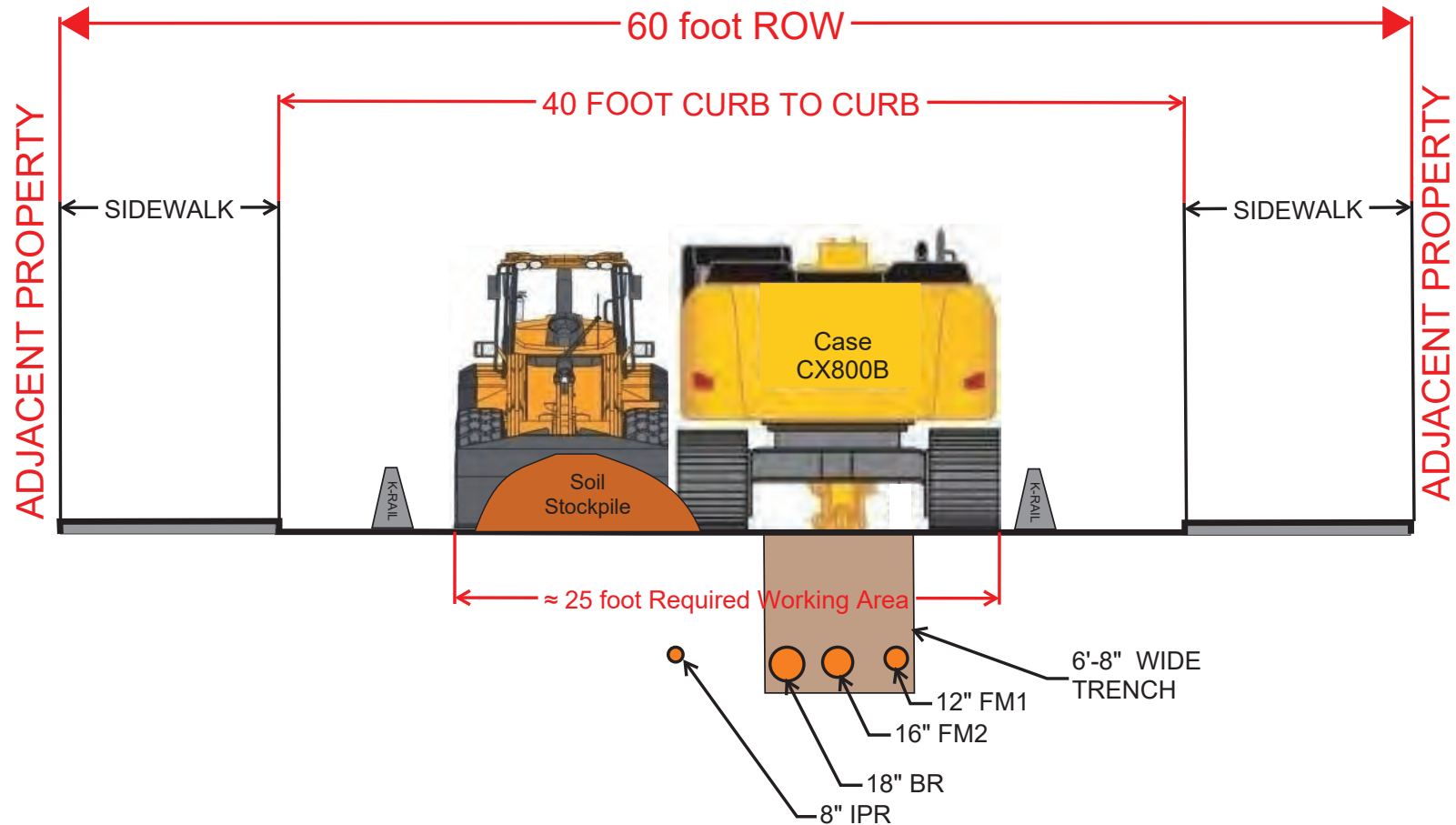
NOTES:
1. THE CONTRACTOR SHALL COMPLY WITH THE GENERAL TRAFFIC CONTROL NOTES LISTED ON DWG 05-TH-01.

- LEGEND:
- DELINEATOR/CONES
 - ▨ WORK ZONE
 - BARRICADE
 - DIRECTION OF TRAFFIC
 - BARRIER

20 0 20 40 FEET
HORIZ SCALE 1"=20'



| | | | |
|--|---------------------|---------------------|-----------------------|
| DESIGN P. WEBSTER | DRAWN P. WEBSTER | CHECKED T. LEWIS | APPROVED M. FISHER |
| CITY OF MORRO BAY WATER RECLAMATION FACILITY LIFT STATION AND OFFSITE PIPELINES | | | |
| TRAFFIC HANDLING STAGE 18, CONT'D | | | |
| DATE MAY 2020 | | | |
| PROJECT NUMBER 17-082 | | | |
| DRAWING NUMBER 05-TH-22 | | | |
| SHEET NUMBER 91 | | | |



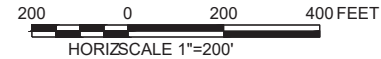
Attachment 5 - Typical Roadway Construction Section

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NOTES:

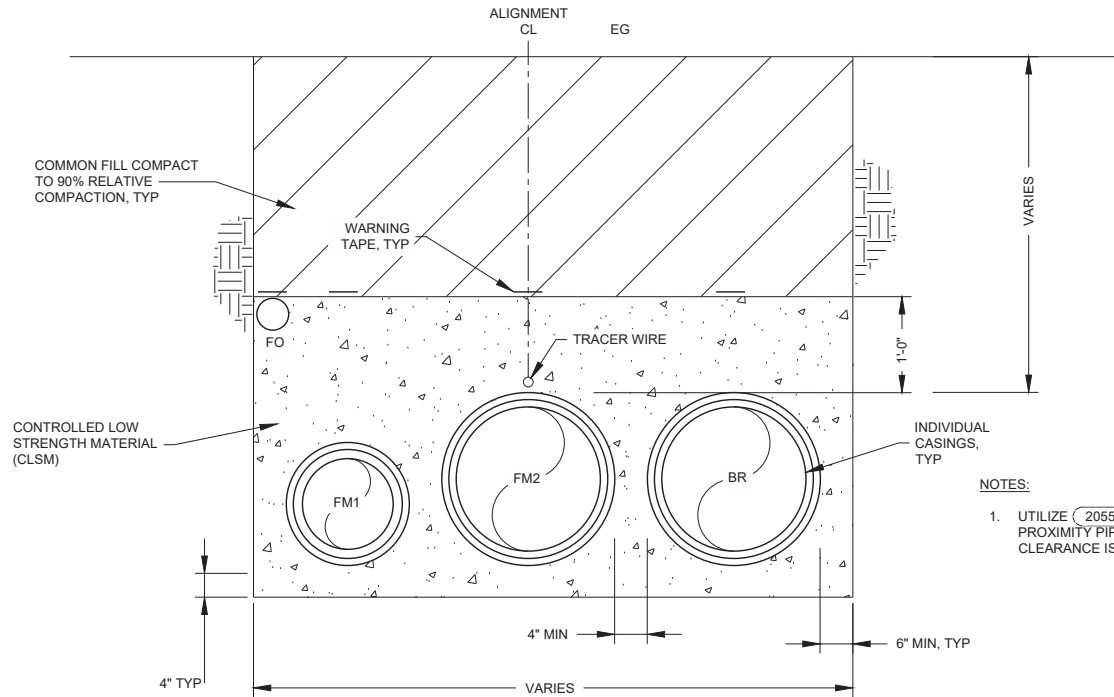
- SEVERAL POTENTIAL LAY DOWN / STAGING AREAS ARE LISTED IN THE ADDENDUM TO THE FINAL EIR (APPENDIX B). IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SECURE LAY DOWN / STAGING AREAS FROM PRIVATE PROPERTY OWNERS UNLESS OTHERWISE NOTED. THE CONTRACTOR MAY SUBMIT FOR APPROVAL ADDITIONAL LAY DOWN / STAGING AREAS WITHIN CITY R/W BUT LONG TERM USE OF THESE AREAS ARE NOT GUARANTEED AND SHALL BE SUBJECT TO THE PROVISIONS OF THE APPROVED CITY ENCROACHMENT PERMIT AND TRAFFIC CIRCULATION CONSTRAINTS.



| | | | | |
|-----------------------------------|--------------------------|---|--|----------------------|
| CIVIL | |  | WATERWORKS E N G I N E E R S 2280 Douglas Blvd, Suite 105 • Roseville, CA 95661 • 916-780-2888 | DESIGN |
| PROJECT OVERVIEW AND KEY MAP 2 | | | | P WEBSTER |
| DATE MAY 2020 | PROJECT NUMBER 17-082 | | | DRAWN P WEBSTER |
| DRAWING NUMBER 05-C-2 | | | | CHECKED T LEWIS |
| SHEET NUMBER | 20 | | | APPROVED M FISHER |

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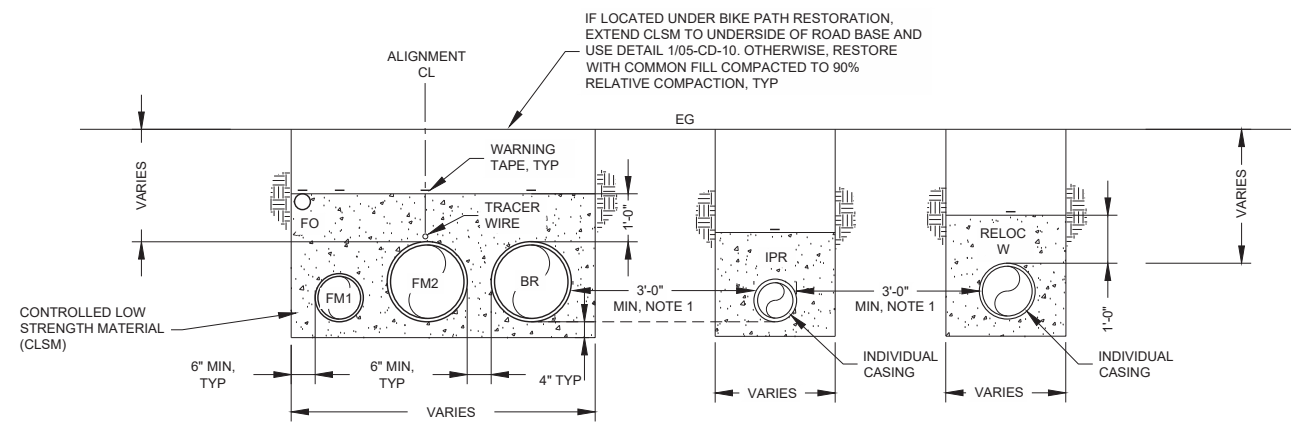
WEST
NOTE: TRENCH SECTION
ORIENTED UP STATION



1 TYP TRENCH DETAIL W/ CASINGS STA: 32+00 TO STA 33+20

05-PP-06 NTS
05-PP-07

WEST
NOTE: TRENCH SECTION
ORIENTED UP STATION

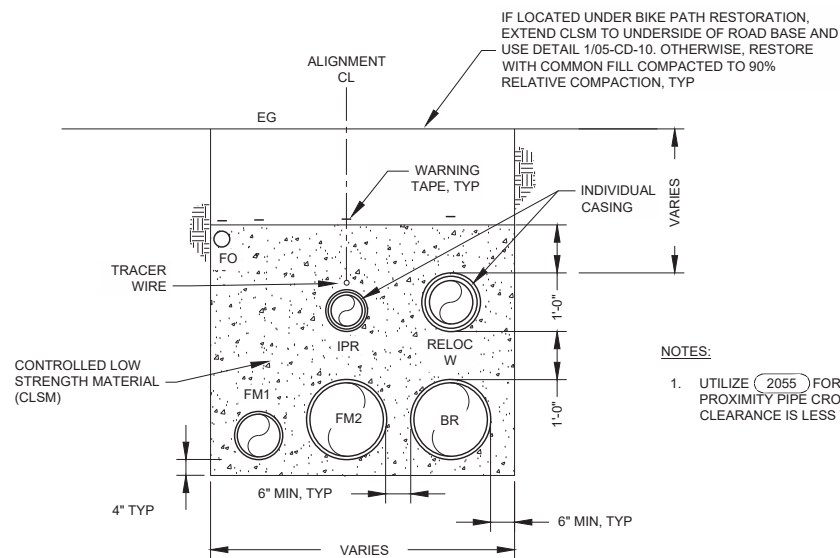


- NOTES:
1. NON-ENCASED IPR MAY NOT BE INSTALLED IN SAME TRENCH AS NON-ENCASED SANITARY UTILITIES OR NON-ENCASED POTABLE WATER UTILITIES. PER PROJECT-SPECIFIC DDW PERMIT REQUIREMENTS, IPR MAY BE LOCATED A MIN 3'-0" FROM SANITARY UTILITIES IF 1'-0" VERTICAL SEPARATION IS PROVIDED. IN ADDITION, IPR MAY BE LOCATED A MIN 3'-0" AWAY FROM PARALLEL POTABLE WATER UTILITIES.
 2. UTILIZE (2055) FOR CLOSE VERTICAL PROXIMITY PIPE CROSSING WHERE CLEARANCE IS LESS THAN 4" TO 12".

2 TYP PAVED TRENCH DETAIL: STA 34+80 TO STA 43+00

05-PP-06, 05-PP-07 NTS
05-PP-08, 05-PP-09

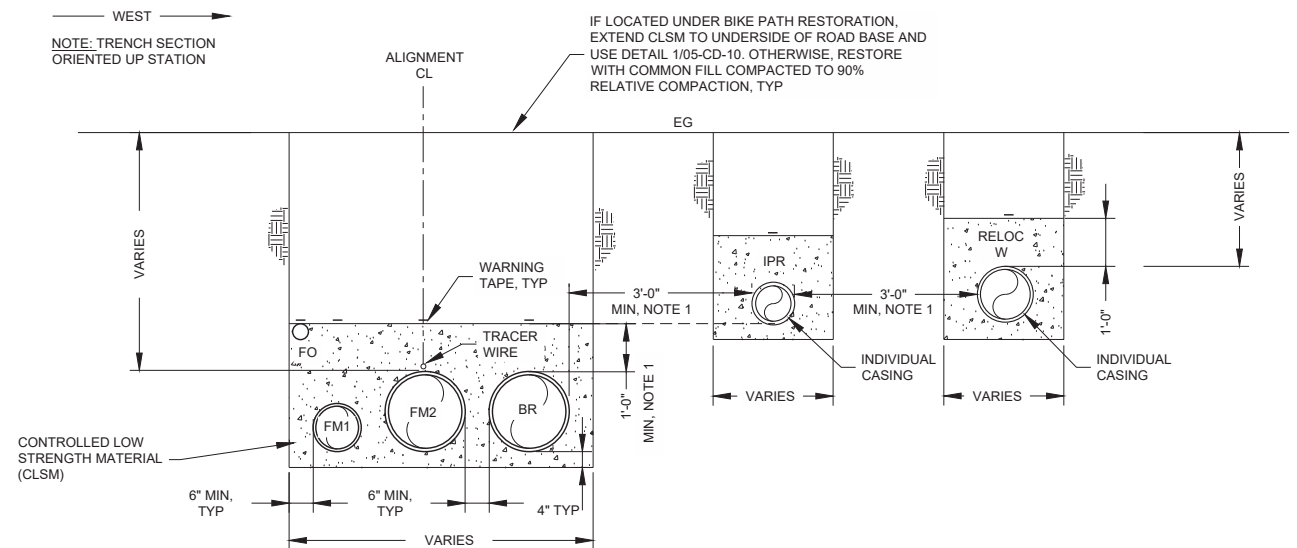
WEST
NOTE: TRENCH SECTION
ORIENTED UP STATION



3 TYP TRENCH DETAIL: STA 43+00 TO STA 44+00

05-PP-09 NTS

WEST
NOTE: TRENCH SECTION
ORIENTED UP STATION



- NOTES:
1. NON-ENCASED IPR MAY NOT BE INSTALLED IN SAME TRENCH AS NON-ENCASED SANITARY UTILITIES OR NON-ENCASED POTABLE WATER UTILITIES. PER PROJECT-SPECIFIC DDW PERMIT REQUIREMENTS, IPR MAY BE LOCATED A MIN 3'-0" FROM SANITARY UTILITIES IF 1'-0" VERTICAL SEPARATION IS PROVIDED. IN ADDITION, IPR MAY BE LOCATED A MIN 3'-0" AWAY FROM PARALLEL POTABLE WATER UTILITIES.
 2. UTILIZE (2055) FOR CLOSE VERTICAL PROXIMITY PIPE CROSSING WHERE CLEARANCE IS LESS THAN 4" TO 12".

4 TYP PAVED TRENCH DETAIL: STA 44+00 TO STA 47+50

05-PP-06, 05-PP-07 NTS
05-PP-08, 05-PP-09



CITY OF MORRO BAY
WATER RECLAMATION FACILITY
LIFT STATION AND OFFSITE
PIPELINES

CIVIL DETAILS
TRENCH SECTIONS AND SURFACE
RESTORATION
STA 32+00 TO STA 47+50

DATE
MAY 2020
PROJECT NUMBER
17-082
DRAWING NUMBER
05-CD-03
SHEET NUMBER 95

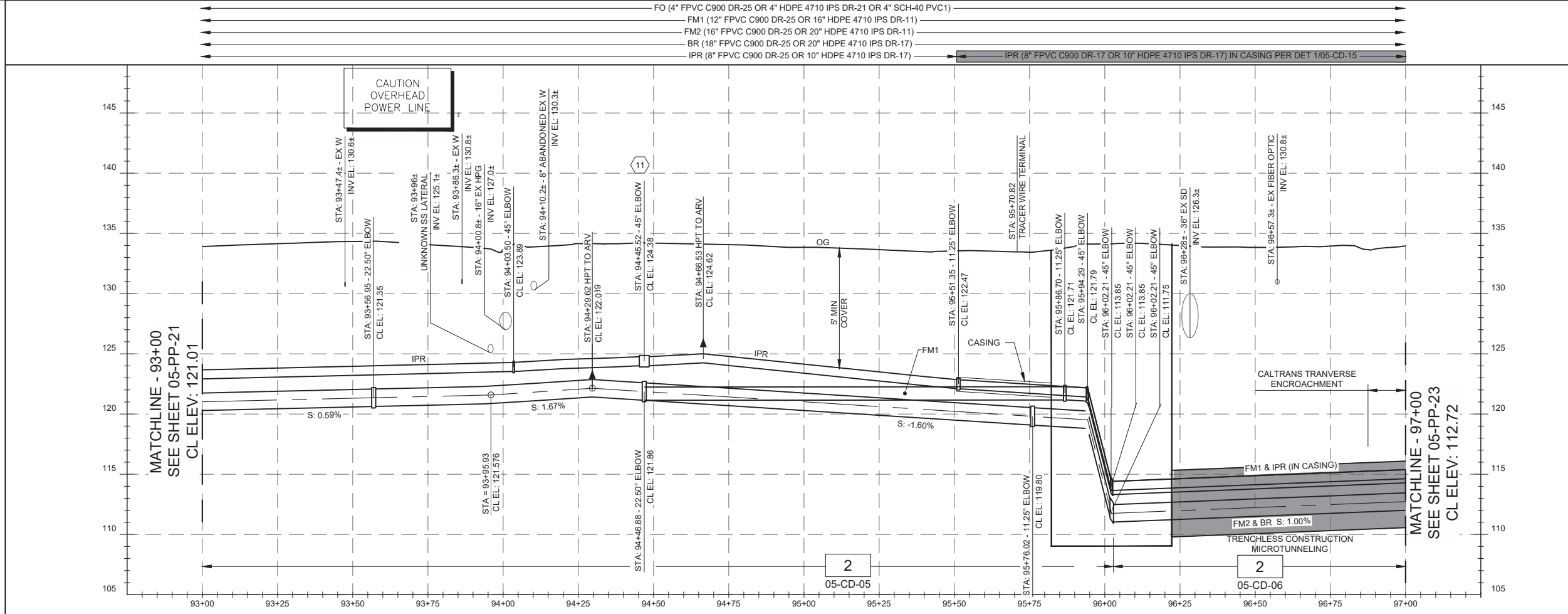
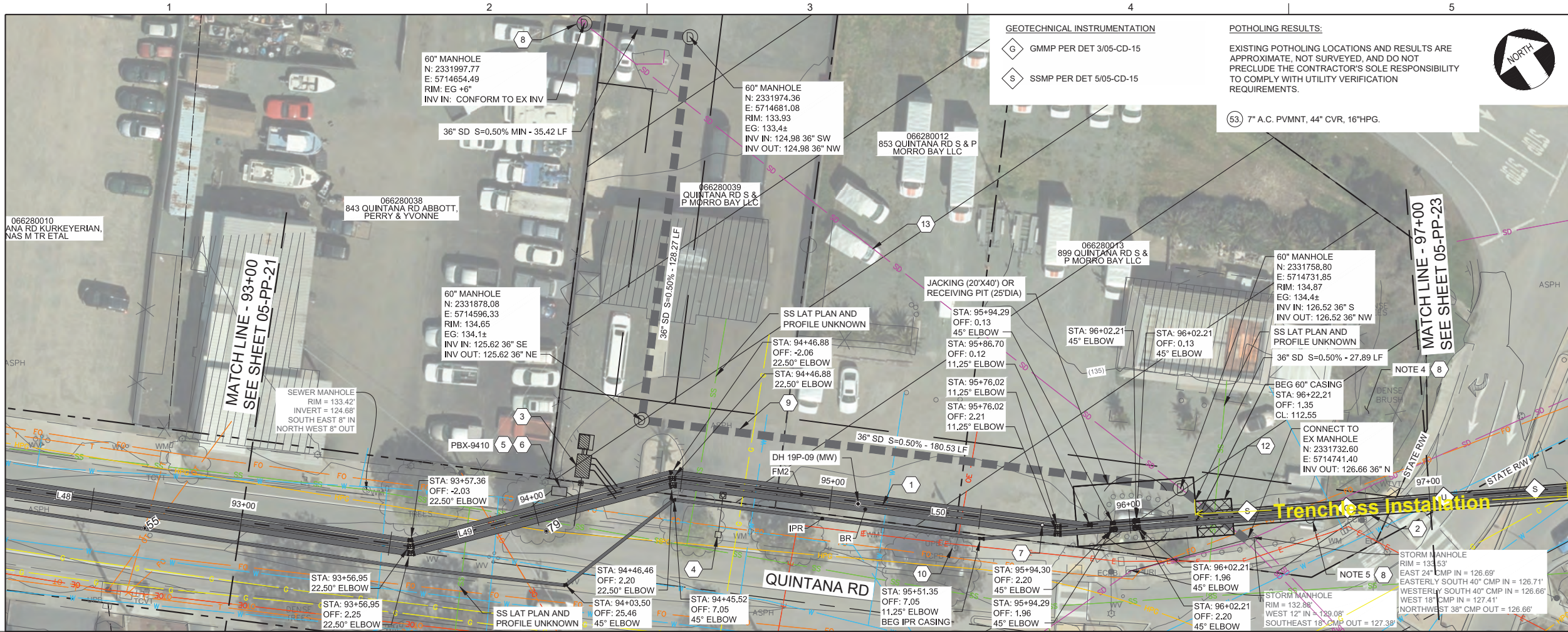
JOB NUMBER: 17-082

FILENAME: 1782-05CD03.DWG

PLOT DATE: 06/15/20

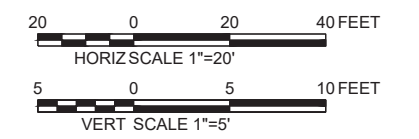
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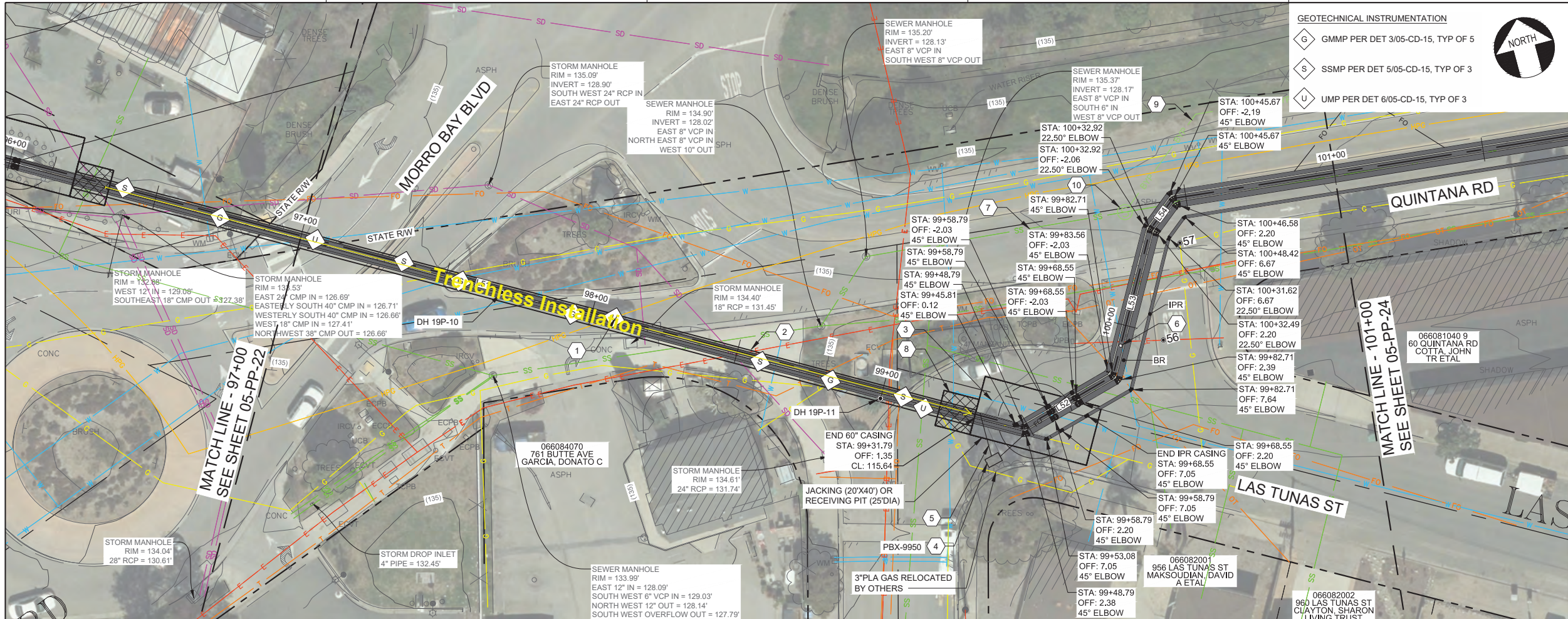
- NOTES:**
- THE CONTRACTOR SHALL COMPLY WITH THE GENERAL CIVIL NOTES AND PERMITTING GENERAL NOTES.
 - HORIZONTAL ALIGNMENT AND PROFILE VERTICAL CURVES HEREIN ARE DESIGNED WITH THE MIN BENDING RADIUS OF THE LARGEST PIPELINE ASSUMING FPVC IS SELECTED. SMALLER BEND RADII MAY BE FEASIBLE DEPENDING ON THE PIPELINE MATERIAL AND LOCATION. THE CONTRACTOR MAY SUBMIT FOR APPROVAL MINOR HORIZONTAL ALIGNMENT CHANGES AND PROFILE VERTICAL CHANGES SO AS IT REDUCES FIELD CONFLICTS, REDUCES FITTINGS WHERE POSSIBLE, IS NOT ZERO SLOPED, AND DOES NOT RESULT IN A HIGH-SPOT.
 - PER SO CAL GAS REQUIREMENTS, ANY EXCAVATION WITHIN 10-FT OF A SO CAL GAS HIGH PRESSURE NATURAL GAS PIPELINE MUST BE COORDINATED THROUGH UNDERGROUND SERVICES ALERT (811) WITH A SO CAL GAS CO. STANDBY EMPLOYEE. IN ADDITION, ANY EXCAVATION, SUBGRADE REMOVAL, OR COMPACTION PERFORMED WITHIN 2' OF THE EDGE OF A SO CAL GAS PIPELINE BUT BE DONE UTILIZING HAND OPERATED TOOLS. ALL HIGH-PRESSURE GAS LINE EXCAVATIONS MUST HAVE A SO CAL GAS EMPLOYEE ON SITE.
 - 13" DIA STEEL Cased WATER WELL UNKNOWN. REPORTED AS ABANDONED IN SOUTHWEST CORNER OF PROPERTY PER DOMENGINI 2003. CASING CAPPED WITH STEEL PLATE IN LARGE CONCRETE FOOTING. STEEL CASING ASSUMED INTACT. MAY BE PARTIALLY BURIED.
 - MONITORING WELL "MW3". REPORTED AS DESTROYED PER GEORESEARCH 1993. SEAL REMOVED, WELL CASING PULLED, WELLBORE REAMED, HIGH YIELD BENTONITE GROUT INSTALLED 5' BGS TO DEPTH, CONCRETE FROM EG TO 5' BGS. MAY BE PARTIALLY BURIED.
 - EXISTING SS, W, AND GAS CROSSINGS TO APN# 066280039, 066280012, 066280013 ARE NOT DETECTED IN PROFILE. STATUS OF SAID UTILITIES SHALL BE COORDINATED WITH CONSTRUCTION MANAGER

- CONSTRUCTION KEY NOTES:**
- INSTALL WRF OFFSITE PIPELINES, VALVES, AND APPURTENANCES PER HORIZONTAL PLAN AND VERTICAL PROFILE. ALIGNMENT IS CL OF FM2 UNLESS OTHERWISE NOTED. ORDER, PLACEMENT, AND REQUIRED CLEARANCES SHALL BE DETERMINED PER SPECIFIED TRENCH DETAIL UNDER PROFILE. SIZE & CLASS OF CARRIER AND/OR CASING PIPE MATERIALS ARE LISTED SCHEMATICALLY ABOVE PROFILE.
 - INSTALL 60" DIA STEEL CASING AND ASSOCIATED CARRIER PIPES VIA MICROTUNNELING TRENCHLESS CONSTRUCTION. SHAFT LIMITS SHOWN HEREIN ARE FOR REFERENCE ONLY. CONTRACTOR RESPONSIBLE FOR SIZE AND CONFIGURATION OF SHAFTS TO MEET SELECTED MEANS AND METHODS.
 - ARV VAULT AND ODOR CONTROL PER DWG 06-CD-03
 - IPR ARV ENCLOSURE PER DWG DET 1/06-CD-5.
 - INSTALL FIBER PULLBOX PER DWG 00-04-VLT SIZE S534.
 - WHERE FO DIVERGES FROM MAIN ALIGNMENT INSTALL PER DET 1/05-CD-09.
 - INSTALL TRACER WIRE TERMINAL (2060) AND GROUND ROD (16410)
 - HIGH PRIORITY UTILITY VERIFICATION REQUIRED, TYP OF 3 (STORM DRAIN, MW3 WELL CASING REMOVAL, UNKNOWN IRR WELL CASING).
 - INSTALL 373-LF RELOCATED 36" CORRUGATED HDPE SD AND THREE (3) SD JUNCTION BOXES PER CITY STD DET C-9. MATCH AND GROUT IN UPSTREAM INVERT IN EX SDMM. MATCH DOWNSTREAM INVERT CONNECT. LAY RELOCATED SD AT CONSTANT SLOPE.
 - DEMOLISH LIGHT POLE.
 - HPG CROSSING. CONTRACTOR TO SUBMIT PIPE SUPPORT PLAN TO CONSTRUCTION MANAGER AND SO CAL GAS.
 - TUNNEL PORTAL STABILIZATION AREA.
 - ABANDON AND FILL 250-LF OF EX 36" SD WITH TYPE 2 LCC.

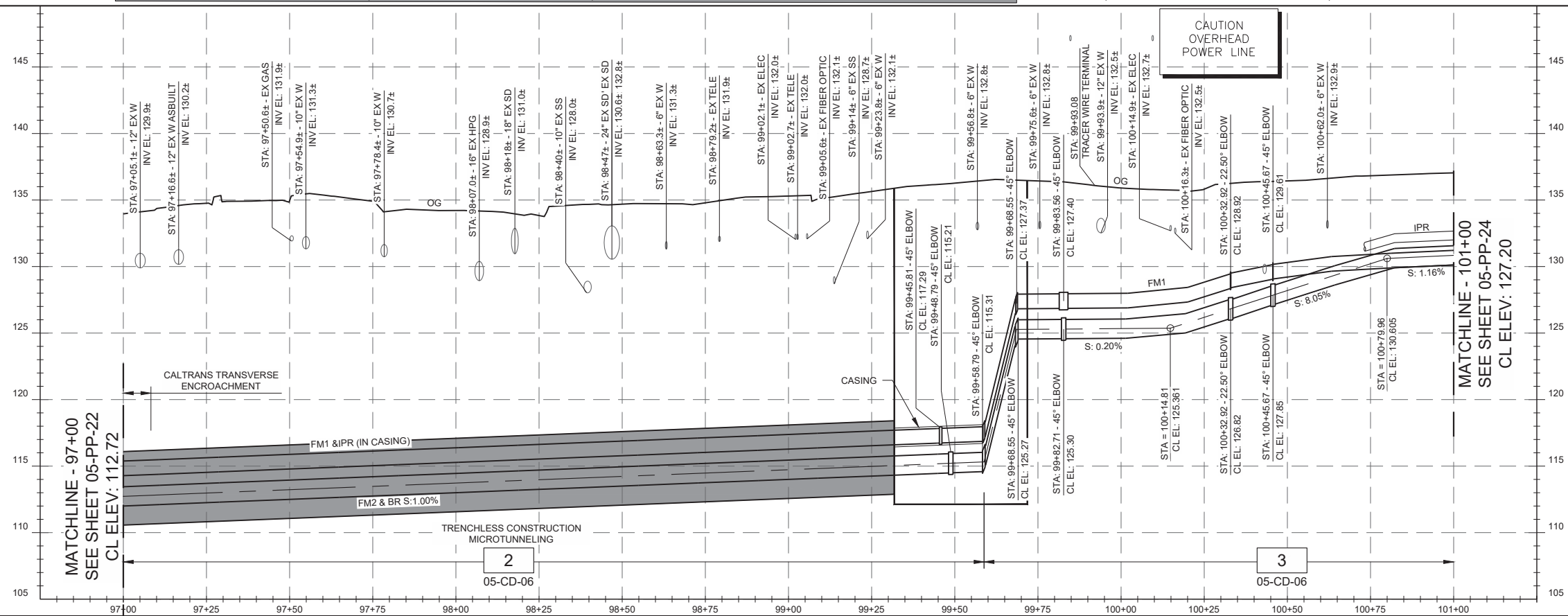


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|--|---------------------|---------------------|-----------------------|
| DESIGN P. WEBSTER | DRAWN P. WEBSTER | CHECKED T. LEWIS | APPROVED M. FISHER |
| CITY OF MORRO BAY WATER RECLAMATION FACILITY LIFT STATION AND OFFSITE PIPELINES | | | |
| PLAN AND PROFILE FORCE MAIN PLAN AND PROFILE STA 93+00 TO STA 97+00 | | | |
| DATE MAY 2020 | | | |
| PROJECT NUMBER 17-082 | | | |
| DRAWING NUMBER 05-PP-22 | | | |
| SHEET NUMBER 45 | | | |

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FO (4" FPVC C900 DR-25 OR 4" HDPE 4710 IPS DR-21 OR 4" SCH-40 PVC1)
FM1 (12" FPVC C900 DR-25 OR 16" HDPE 4710 IPS DR-11)
FM2 (16" FPVC C900 DR-25 OR 20" HDPE 4710 IPS DR-11)
BR (18" FPVC C900 DR-25 OR 20" HDPE 4710 IPS DR-17)
IPR (8" FPVC C900 DR-17 OR 10" HDPE 4710 IPS DR-17) IN CASING PER DET 1/05-CD-15



JOB NUMBER: 17-082

FILENAME: 1782D-05PP123.DWG

PLOT DATE: 06/12/20

PLOT TIME: 12:14:37

NOTES:

- THE CONTRACTOR SHALL COMPLY WITH THE GENERAL CIVIL NOTES AND PERMITTING GENERAL NOTES.
- HORIZONTAL ALIGNMENT AND PROFILE VERTICAL CURVES HEREIN ARE DESIGNED WITH THE MIN BENDING RADIUS OF THE LARGEST PIPELINE ASSUMING FPVC IS SELECTED. SMALLER BEND RADI MAY BE FEASIBLE DEPENDING ON THE PIPELINE MATERIAL AND LOCATION. THE CONTRACTOR MAY SUBMIT FOR APPROVAL MINOR HORIZONTAL ALIGNMENT CHANGES AND PROFILE VERTICAL CHANGES SO AS IT REDUCES FIELD CONFLICTS, REDUCES FITTINGS WHERE POSSIBLE, IS NOT ZERO SLOPED, AND DOES NOT RESULT IN A HIGH-SPOT.
- PER SO CAL GAS REQUIREMENTS, ANY EXCAVATION WITHIN 10-FT OF A SO CAL GAS HIGH PRESSURE NATURAL GAS PIPELINE MUST BE COORDINATED THROUGH UNDERGROUND SERVICES ALERT (811) WITH A SO CAL GAS CO. STANDBY EMPLOYEE. IN ADDITION, ANY EXCAVATION, SUBGRADE REMOVAL, OR COMPACTION PERFORMED WITH 2' OF THE EDGE OF A SO CAL GAS PIPELINE BUT BE DONE UTILIZING HAND OPERATED TOOLS. ALL HIGH-PRESSURE GAS LINE EXCAVATIONS MUST HAVE A SO CAL GAS EMPLOYEE ON SITE.
- GEOTECHNICAL BOREHOLES IN QUINTANA FROM EARTH SYSTEMS PACIFIC 2008 NOT DEPICTED.

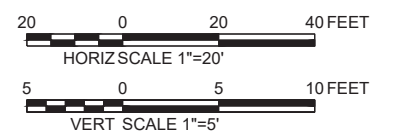
CONSTRUCTION KEY NOTES:

- INSTALL WRF OFFSITE PIPELINES, VALVES, AND APPURTENANCES PER HORIZONTAL PLAN AND VERTICAL PROFILE. ALIGNMENT IS CL OF FM2 UNLESS OTHERWISE NOTED. ORDER, PLACEMENT, AND REQUIRED CLEARANCES SHALL BE DETERMINED PER SPECIFIED TRENCH DETAIL UNDER PROFILE. SIZE & CLASS OF CARRIER AND/OR CASING PIPE MATERIALS ARE LISTED SCHEMATICALLY ABOVE PROFILE.
- INSTALL 60" STEEL CASING AND ASSOCIATED CARRIER PIPES VIA MICROTUNNELING TRENCHLESS CONSTRUCTION. SHAFT LIMITS SHOWN HEREIN ARE FOR REFERENCE ONLY. CONTRACTOR RESPONSIBLE FOR SIZE AND CONFIGURATION OF PITS TO MEET SELECTED MEANS AND METHODS.
- DEMOLISH, BYPASS, AND REPLACE 55-LF 6"W W/ 6" C900 DR-18 PVC (PVC2).
- INSTALL FIBER PULLBOX PER DWG 00-E-04/VLT SIZE S534.
- WHERE FO DIVERGES FROM MAIN ALIGNMENT INSTALL PER DET 1/05-CD-09
- INSTALL TRACER WIRE TERMINAL (2060) AND GROUND WIRE (16410)
- 8"SS FROM LS-3 TO BE ABANDONED AND FILLED WITH TYPE 2 LCC OR DEMOLISHED AS NEEDED IN CONJUNCTION WITH APPROVED LS-3 BYPASS PLAN. ABANDONED MANHOLES TO BE FILLED WITH TYPE 2 LCC AND CONE, GRADE RINGS, AND COVER REMOVED.
- TUNNEL PORTAL STABILIZATION AREA
- 8" LS-3 PASSIVE BYPASS LINE POTENTIAL ALIGNMENT ROUTE PER APPROVED BYPASS PLAN. LOCATE PIPE AS FAR FROM VEHICULAR TRAFFIC AS FEASIBLE WHILE WITHIN CITY R/W. PROTECT PIPE FROM VEHICULAR TRAFFIC. BURIED PIPE IN QUINTANA RD SHALL BE INSTALLED PER SEE DET 2/05-CD-09 AND MAY BE ABANDONED IN PLACE AND FILLED WITH TYPE 2 LCC. SEE SPEC 01550.
- INSTALL LS-3 BYP SSMH PER CITY STD DET S-3.
RIM: 136.3±
INV 8"SS OUT: 129.4±

POTHOLES RESULTS:

EXISTING POTHOLES LOCATIONS AND RESULTS ARE APPROXIMATE, NOT SURVEYED, AND DO NOT PRECLUDE THE CONTRACTOR'S SOLE RESPONSIBILITY TO COMPLY WITH UTILITY VERIFICATION REQUIREMENTS.

- 4" A.C. PVMNT, 25" CVR, 27" DEPTH, ELEC CONDUIT
- 6" A.C. PVMNT, 29" CVR, 33" DEPTH, GAS



| | |
|----------|------------|
| DESIGN | P. WEBSTER |
| DRAWN | P. WEBSTER |
| CHECKED | T. LEWIS |
| APPROVED | M. FISHER |

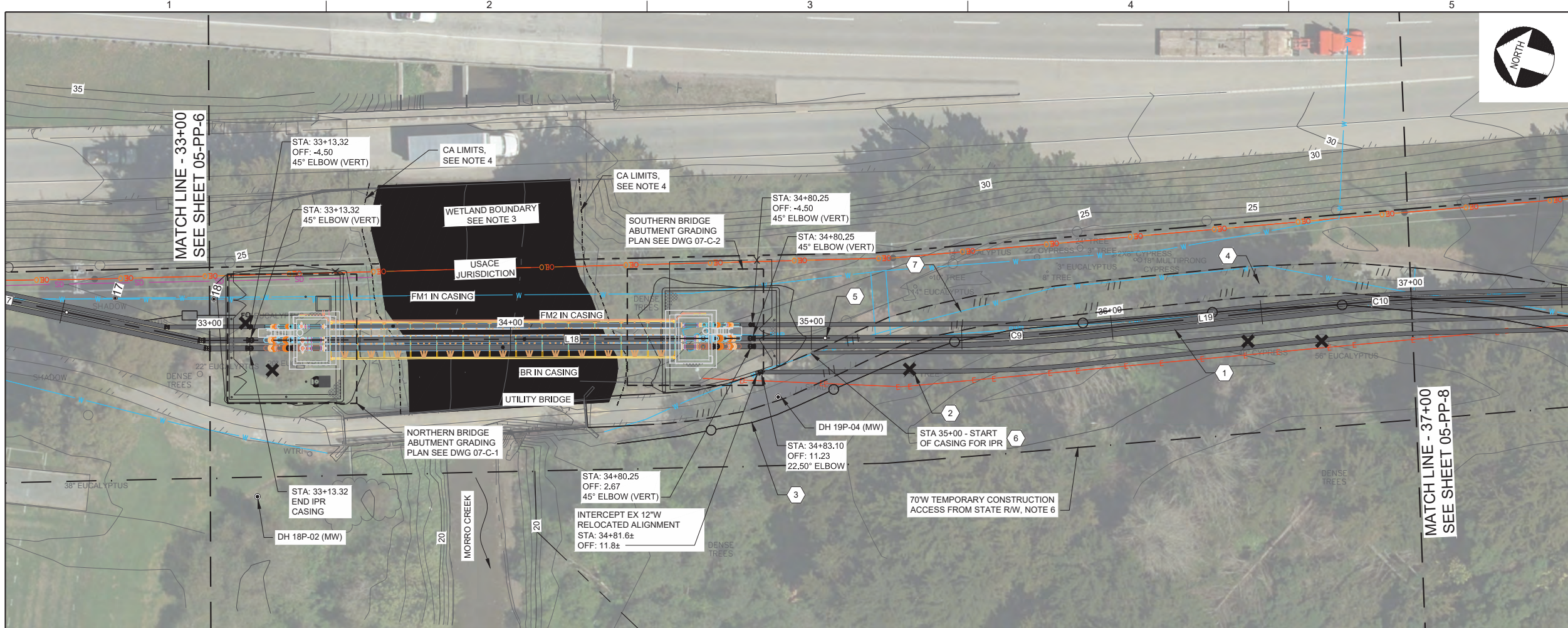
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Roseville, CA 95661 • 916-760-2888

CITY OF MORRO BAY
WATER RECLAMATION FACILITY
LIFT STATION AND OFFSITE
PIPELINES

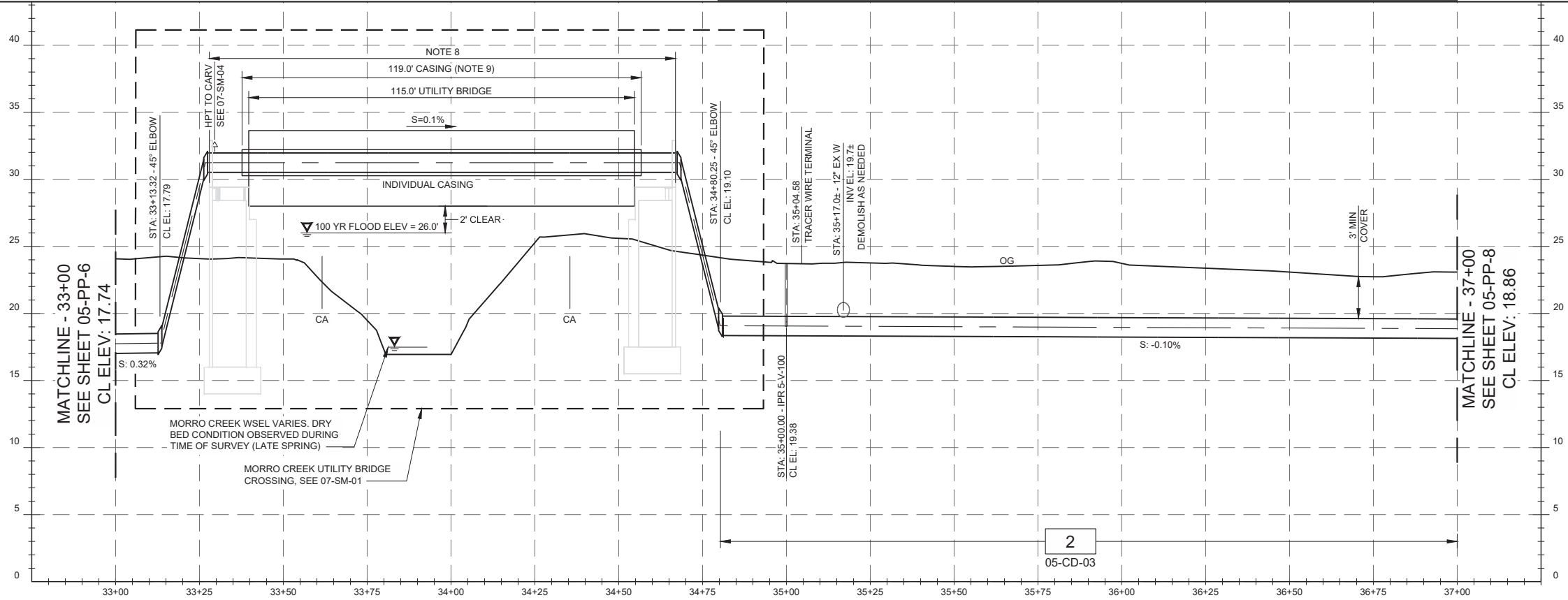
PLAN AND PROFILE
FORCE MAIN PLAN AND PROFILE
STA 97+00 TO STA 101+00

| | |
|----------------|----------|
| DATE | MAY 2020 |
| PROJECT NUMBER | 17-082 |
| DRAWING NUMBER | 05-PP-23 |
| SHEET NUMBER | 46 |

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| | | |
|---------------------------------------|---|---|
| CONTINUATION SEE PREVIOUS SHEET | FO (4" 1/8 WSP) | FO (4" FPVC C900 DR-25 OR 4" HDPE 4710 IPS DR-21 OR 4" SCH-40 PVC1) |
| | FM1 (10" DIP, NOTE 9) IN CASING (14" 1/8 WSP) | FM1 (10" FPVC C900 DR-25 OR 12" HDPE 4710 IPS DR-17) |
| | FM2 (16" DIP, NOTE 9) IN CASING (20" 1/8 WSP) | FM2 (16" FPVC C900 DR-25 OR 18" HDPE 4710 IPS DR-17) |
| | BR (16" DIP, NOTE 9) IN CASING (20" 1/8 WSP) | BR (16" FPVC C900 DR-25 OR 18" HDPE 4710 IPS DR-17) |
| | | IPR (8" FPVC DR-25 OR 10" HDPE 4710 IPS DR-17) IN CASING PER DET 1/05-CD-15 |
| | | 12"W (12" FPVC C900 DR-18) IN CASING PER DET 1/05-CD-15 |

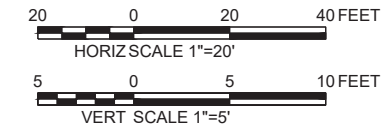


NOTES:

- THE CONTRACTOR SHALL COMPLY WITH THE GENERAL CIVIL NOTES AND PERMITTING GENERAL NOTES.
- HORIZONTAL ALIGNMENT AND PROFILE VERTICAL CURVES HEREIN ARE DESIGNED WITH THE MIN BENDING RADIUS OF THE LARGEST PIPELINE ASSUMING FPVC IS SELECTED. SMALLER BEND RADI MAY BE FEASIBLE DEPENDING ON THE PIPELINE MATERIAL AND LOCATION. THE CONTRACTOR MAY SUBMIT FOR APPROVAL MINOR HORIZONTAL ALIGNMENT CHANGES AND PROFILE VERTICAL CHANGES SO AS IT REDUCES FIELD CONFLICTS, REDUCES FITTINGS WHERE POSSIBLE, IS NOT ZERO SLOPED, AND DOES NOT RESULT IN A HIGH-SPOT.
- WETLAND BOUNDARY IS REPRESENTATIVE OF CDFW/RWQCB/CCC JURISDICTION AS DELINEATED IN THE PROJECT BIOLOGICAL RESOURCES ASSESSMENT (KMA 2019).
- CONSTRUCTION ACTIVITY (CA) LIMITS OFFSET 3' FROM EDGE OF WETLAND BOUNDARY. GROUND DISTURBING ACTIVITIES SHALL NOT EXTEND PAST CA LIMITS. SWPPP BMPs SHALL BE INSTALLED PER APPROVED SWPPP PLAN AT A MINIMUM ALONG CA LIMITS.
- EXCAVATION WITHIN 6' OF PP SHALL BE COORDINATED WITH PGE AND MAY REQUIRE CONSTRUCTION PHASE SUPPORT.
- CONTRACTOR SHALL PREPARE, SUBMIT FOR REVIEW, AND IMPLEMENT A SITE SECURITY PLAN WHEREBY THE VISTRA PRIVATE PROPERTY SHALL BE SECURED AT ALL TIMES VIA TEMPORARY FENCING AT THE LIMITS OF THE TEMPORARY CONSTRUCTION EASEMENT.
- TREES NOT MARKED FOR REMOVAL WITHIN THE TEMPORARY CONSTRUCTION EASEMENT LIMITS AND OVER 6" DBH SHALL BE PROTECTED IN PLACE AND MAY BE TRIMMED PER THE PROJECT ARBORISTS RECOMMENDATIONS. TREES SMALLER THAN 6" DBH MAY BE REMOVED BY THE CONTRACTOR AS PART OF CLEARING AND GRUBBING OPERATIONS WITHIN TEMPORARY CONSTRUCTION ACCESS LIMITS IN COORDINATION WITH PROJECT BIOLOGIST AND ARBORIST. IF DELINEATED, ENVIRONMENTALLY SENSITIVE AREAS SHALL BE CORDONED OFF PER BIOLOGIST'S RECOMMENDATIONS.
- PRESSURE TESTING FOR THE CARRIER PIPELINES ALONG THE UTILITY BRIDGE AND ABUTMENTS SHALL BE CONDUCTED INDIVIDUALLY AND MAY NOT EXCEED THE FOLLOWING PRESSURES: FM1 (50 PSI), FM2 (30 PSI), BR (90 PSI).
- ENCASED CARRIER PIPE SHALL BE PRJ DIP AND SHALL ACCOMMODATE UP TO 1.05" OF LINEAR EXPANSION OR 120-DEG THERMAL EXPANSION FROM AT A NEUTRAL SETTING, WHICHEVER IS GREATER. ANNUAL SPACE TO CASING SHALL REMAIN UNFILLED.

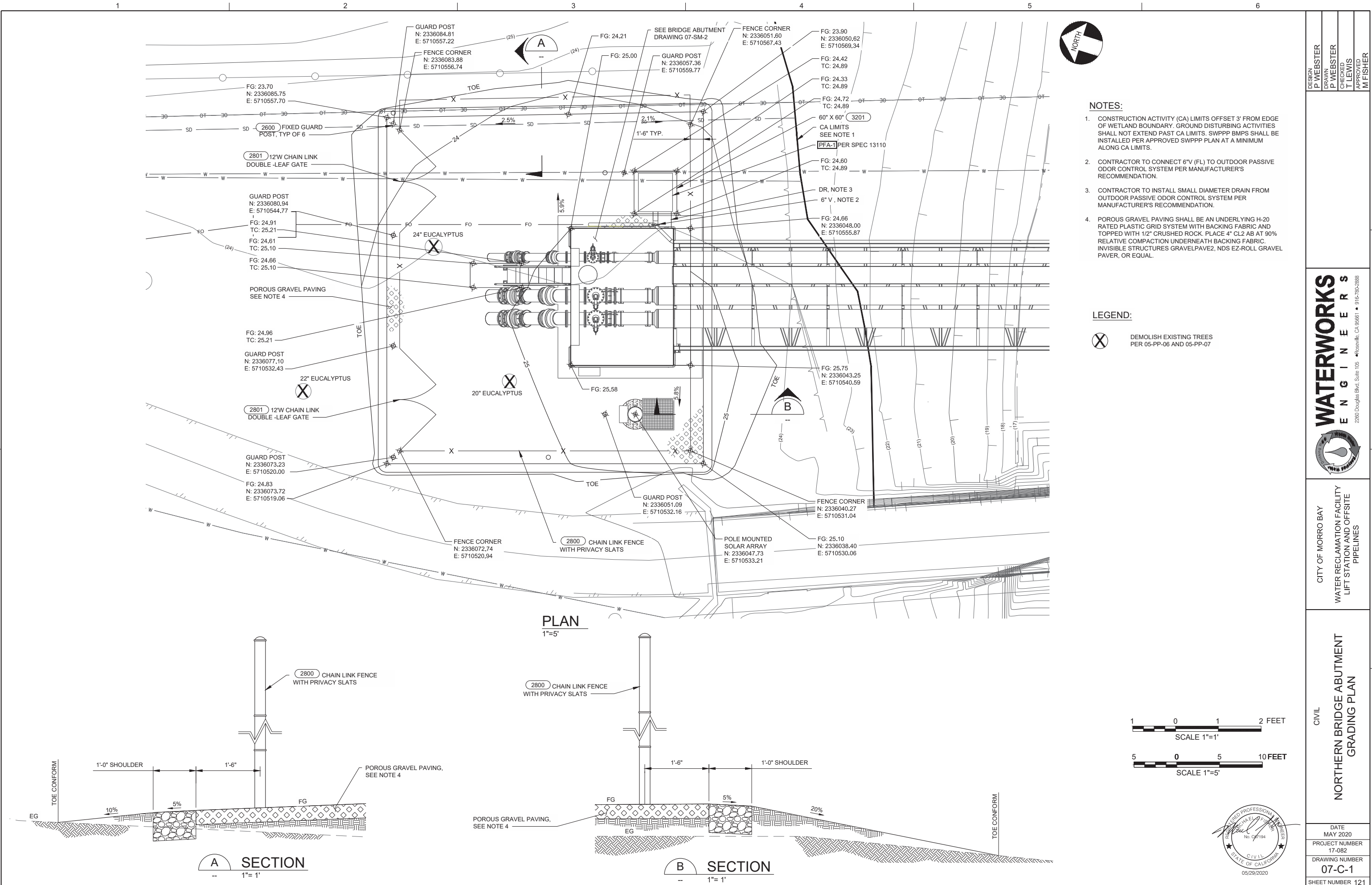
CONSTRUCTION KEY NOTES:

- INSTALL WRF OFFSITE PIPELINES, VALVES, AND APPURTENANCES PER HORIZONTAL PLAN AND VERTICAL PROFILE. ALIGNMENT IS CL OF FM2 UNLESS OTHERWISE NOTED. ORDER, PLACEMENT, AND REQUIRED CLEARANCES SHALL BE DETERMINED PER SPECIFIED TRENCH DETAIL UNDER PROFILE. SIZE & CLASS OF CARRIER AND/OR CASING PIPE MATERIALS ARE LISTED SCHEMATICALLY ABOVE PROFILE.
- TREE REMOVAL, TYP OF 5. SEE NOTE 7.
- REPLACE 271-LF 6'-0" CHAIN LINK FENCE WITH BARBED WIRE 45-DEG ARM PER (2800) REUSE AND REINSTALL EX VISTRA ACCESS GATES WHERE PRESENT.
- REPLACE 260-LF EX BIKE PATH PER DETAIL 1/05-CD-10.
- INSTALL TRACER WIRE TERMINAL (2060) AND GROUND ROD. (16410)
- 5-V-100 PER (2200) . TERMINATE WITH CAPPED 5'-0" SPOOL.
- 12" PVC W TO BE ABANDONED AND FILLED WITH TYPE 2 LCC OR DEMOLISHED AS NEEDED IN CONJUNCTION WITH APPROVED BYPASS PLAN.

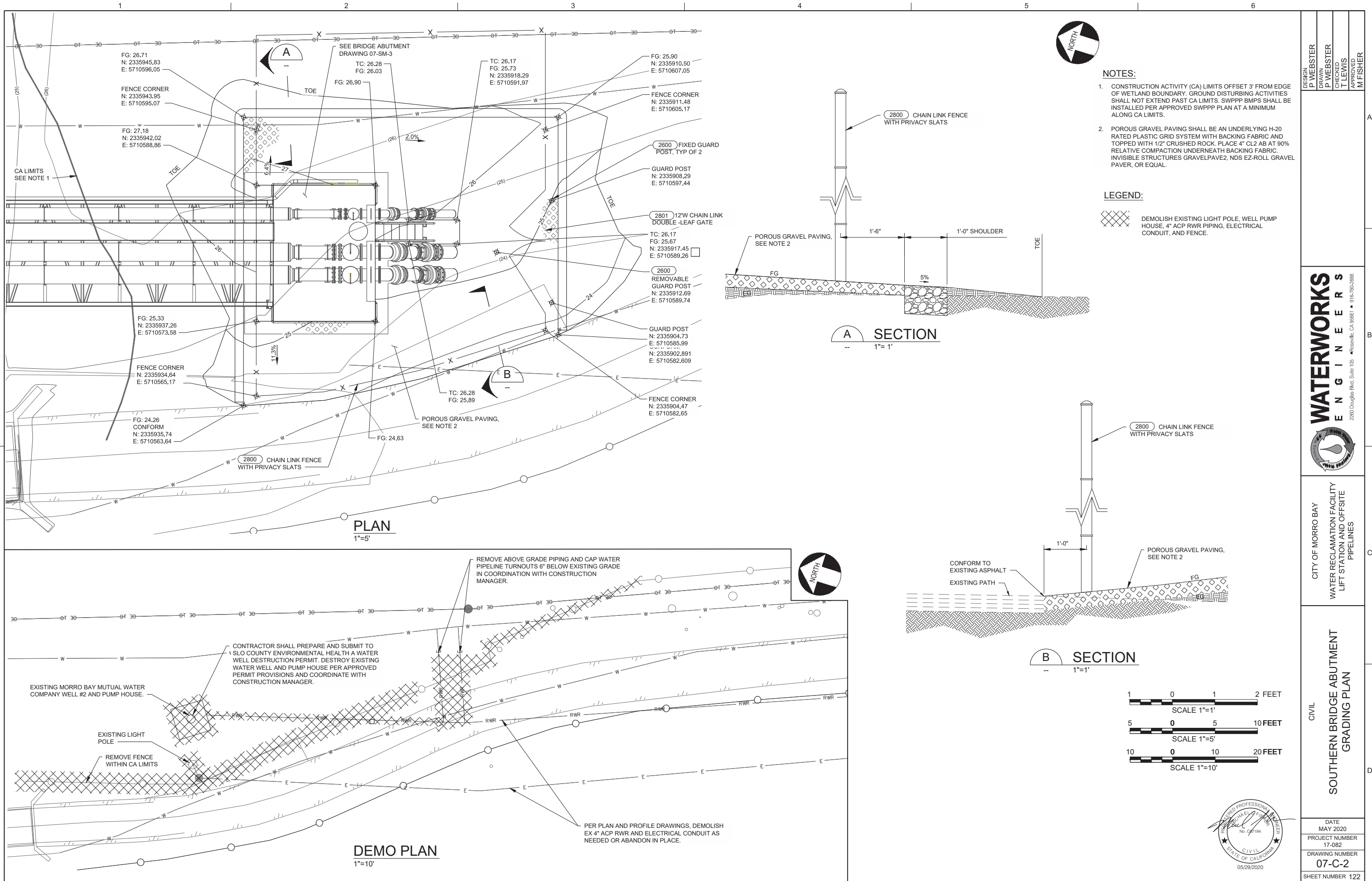


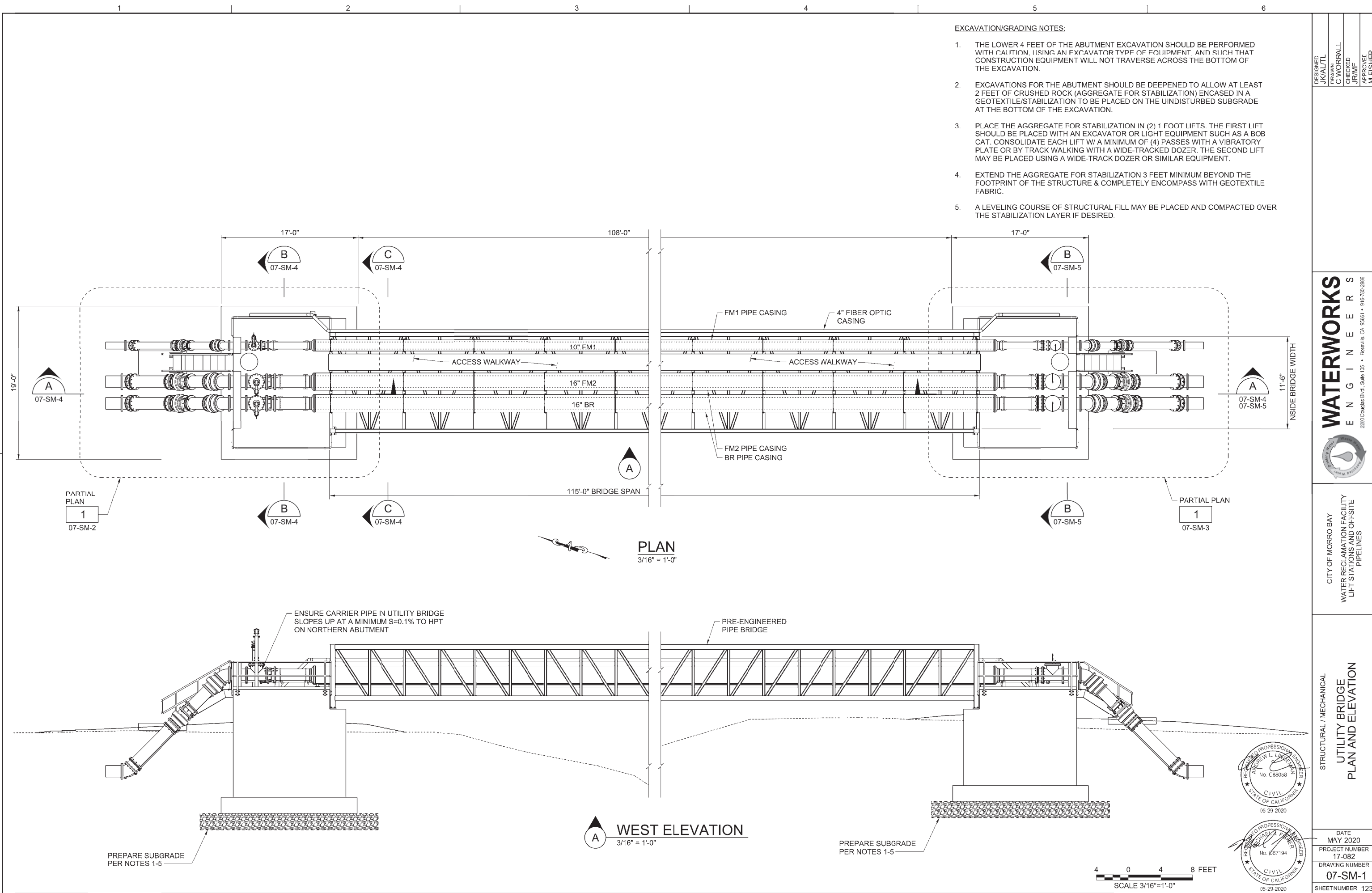
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|--|--------------------|--------------------|----------------------|
| DESIGN P WEBSTER | DRAWN P WEBSTER | CHECKED T LEWIS | APPROVED M FISHER |
| CITY OF MORRO BAY WATER RECLAMATION FACILITY LIFT STATION AND OFFSITE PIPELINES | | | |
| PLAN AND PROFILE FORCE MAIN PLAN AND PROFILE STA 33+00 TO STA 37+00 | | | |
| DATE MAY 2020 | | | |
| PROJECT NUMBER 17-082 | | | |
| DRAWING NUMBER 05-PP-7 | | | |
| SHEET NUMBER 30 | | | |

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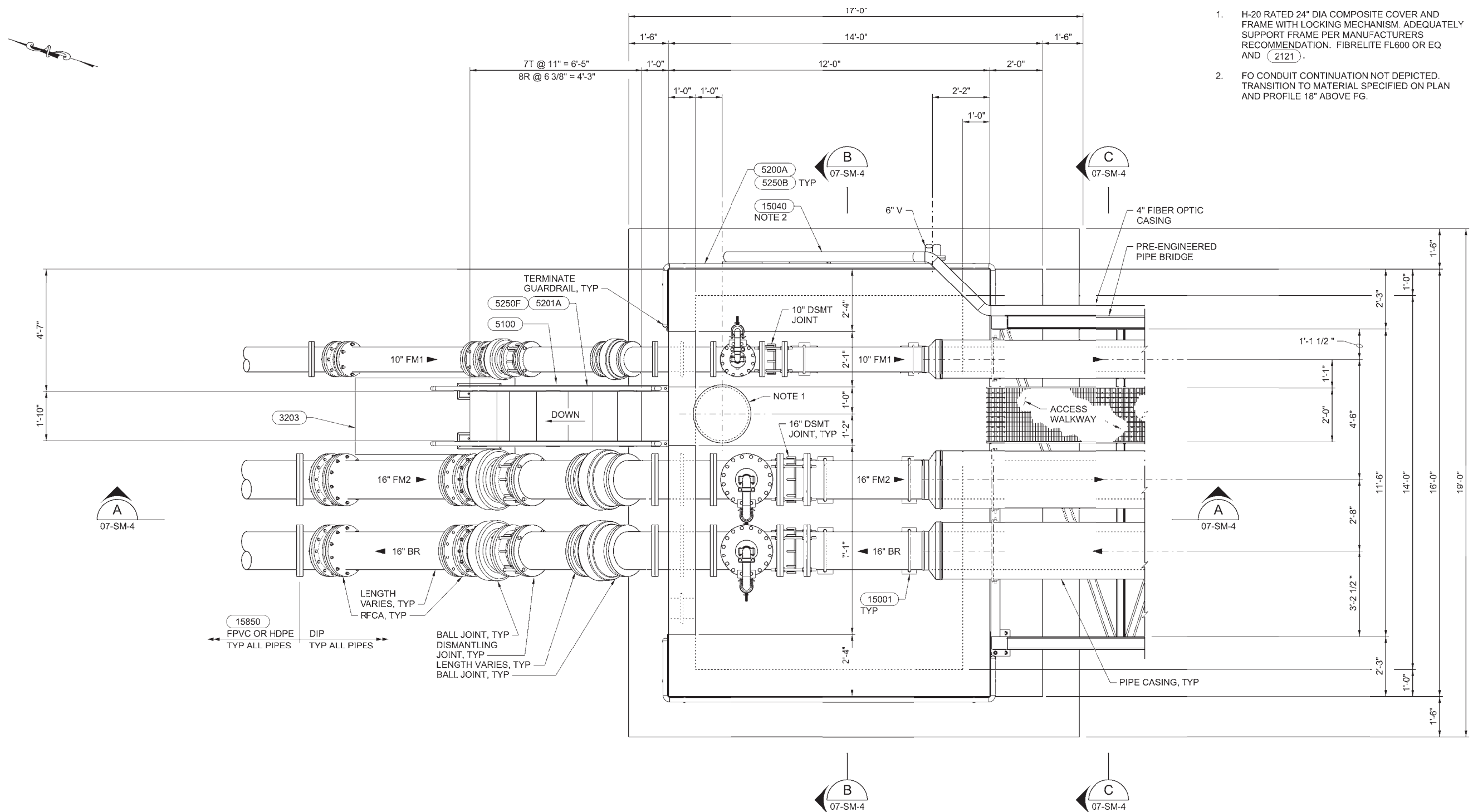




- EXCAVATION/GRADING NOTES:
1. THE LOWER 4 FEET OF THE ABUTMENT EXCAVATION SHOULD BE PERFORMED WITH CAUTION, USING AN EXCAVATOR TYPE OF EQUIPMENT, AND SUCH THAT CONSTRUCTION EQUIPMENT WILL NOT TRAVERSE ACROSS THE BOTTOM OF THE EXCAVATION.
 2. EXCAVATIONS FOR THE ABUTMENT SHOULD BE DEEPEMED TO ALLOW AT LEAST 2 FEET OF CRUSHED ROCK (AGGREGATE FOR STABILIZATION) ENCASED IN A GEOTEXTILE/STABILIZATION TO BE PLACED ON THE UNDISTURBED SUBGRADE AT THE BOTTOM OF THE EXCAVATION.
 3. PLACE THE AGGREGATE FOR STABILIZATION IN (2) 1 FOOT LIFTS. THE FIRST LIFT SHOULD BE PLACED WITH AN EXCAVATOR OR LIGHT EQUIPMENT SUCH AS A BOB CAT. CONSOLIDATE EACH LIFT W/ A MINIMUM OF (4) PASSES WITH A VIBRATORY PLATE OR BY TRACK WALKING WITH A WIDE-TRACKED DOZER. THE SECOND LIFT MAY BE PLACED USING A WIDE-TRACK DOZER OR SIMILAR EQUIPMENT.
 4. EXTEND THE AGGREGATE FOR STABILIZATION 3 FEET MINIMUM BEYOND THE FOOTPRINT OF THE STRUCTURE & COMPLETELY ENCOMPASS WITH GEOTEXTILE FABRIC.
 5. A LEVELING COURSE OF STRUCTURAL FILL MAY BE PLACED AND COMPACTED OVER THE STABILIZATION LAYER IF DESIRED.

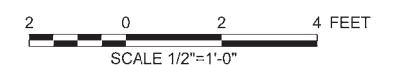
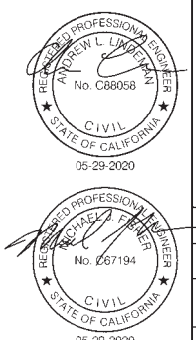
| | | | |
|--|--------------------|------------------|----------------------|
| DESIGNED JK/AL/TL | DRAWN C WORRALL | CHECKED JR/MF | APPROVED M FISHER |
| WATERWORKS ENGINEERS 2290 Douglas Blvd., Suite 105 • Roseville, CA 95661 • 916-785-2888 | | | |
| CITY OF MORRO BAY WATER RECLAMATION FACILITY LIFT STATIONS AND OFFSITE PIPELINES | | | |
| STRUCTURAL / MECHANICAL UTILITY BRIDGE PLAN AND ELEVATION | | | |
| DATE MAY 2020 | | | |
| PROJECT NUMBER 17-082 | | | |
| DRAWING NUMBER 07-SM-1 | | | |
| SHEET NUMBER 123 | | | |

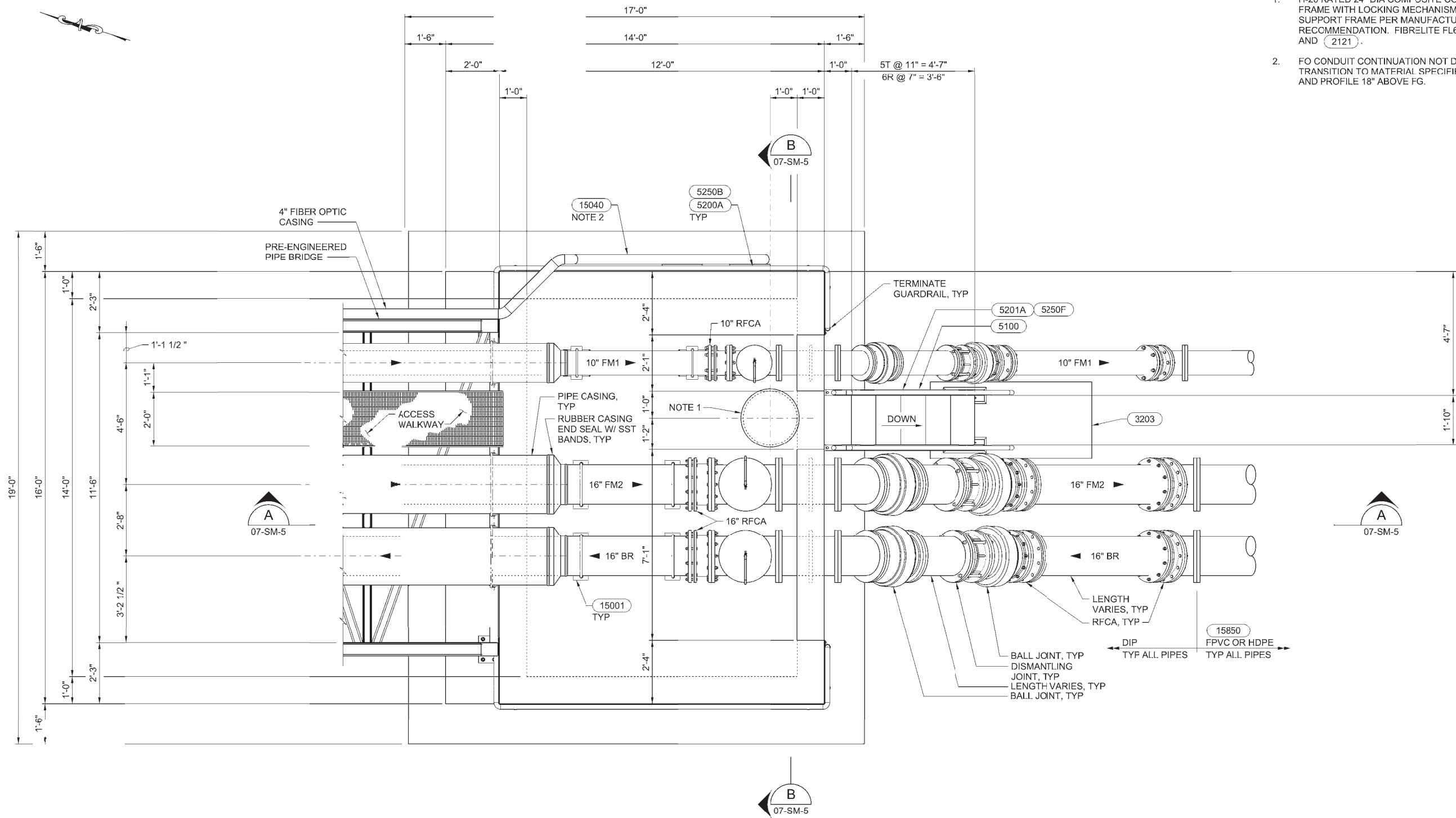
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- NOTES:
1. H-20 RATED 24" DIA COMPOSITE COVER AND FRAME WITH LOCKING MECHANISM. ADEQUATELY SUPPORT FRAME PER MANUFACTURERS RECOMMENDATION. FIBRELITE FL600 OR EQ AND (2121).
 2. FG CONDUIT CONTINUATION NOT DEPICTED. TRANSITION TO MATERIAL SPECIFIED ON PLAN AND PROFILE 18" ABOVE FG.

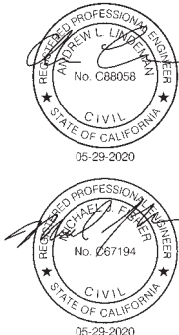
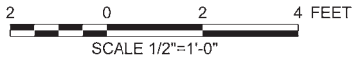
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| DESIGNED JK/AL/TL | DRAWN C WORRALL | CHECKED JRM/FE | APPROVED M FISHER |
| WATERWORKS ENGINEERS 2260 Douglas Blvd., Suite 105 • Roseville, CA 95661 • 916-785-2888 | | | |
| CITY OF MORRO BAY WATER RECLAMATION FACILITY LIFT STATIONS AND OFFSITE PIPELINES | | | |
| STRUCTURAL / MECHANICAL UTILITY BRIDGE NORTH ABUTMENT PARTIAL PLAN | | | |
| DATE MAY 2020 | | | |
| PROJECT NUMBER 17-082 | | | |
| DRAWING NUMBER 07-SM-2 | | | |
| SHEET NUMBER 124 | | | |





- NOTES:
- H-20 RATED 24" DIA COMPOSITE COVER AND FRAME WITH LOCKING MECHANISM. ADEQUATELY SUPPORT FRAME PER MANUFACTURERS RECOMMENDATION. FIBRELITE FL600 OR EQ AND 2121.
 - FO CONDUIT CONTINUATION NOT DEPICTED. TRANSITION TO MATERIAL SPECIFIED ON PLAN AND PROFILE 18" ABOVE FG.

1 PARTIAL PLAN
07-SM-1 1/2" = 1'-0"



| | | | | |
|---|--------------------|------------------|----------------------|--|
| DESIGNED JK/AL/TL | DRAWN C WORRALL | CHECKED JR/MP | APPROVED M FISHER | |
| CITY OF MORRO BAY WATER RECLAMATION FACILITY LIFT STATIONS AND OFFSITE PIPELINES | | | | |
| STRUCTURAL / MECHANICAL UTILITY BRIDGE SOUTH ABUTMENT PARTIAL PLAN | | | | |
| DATE MAY 2020 | | | | |
| PROJECT NUMBER 17-082 | | | | |
| DRAWING NUMBER 07-SM-3 | | | | |
| SHEET NUMBER 125 | | | | |






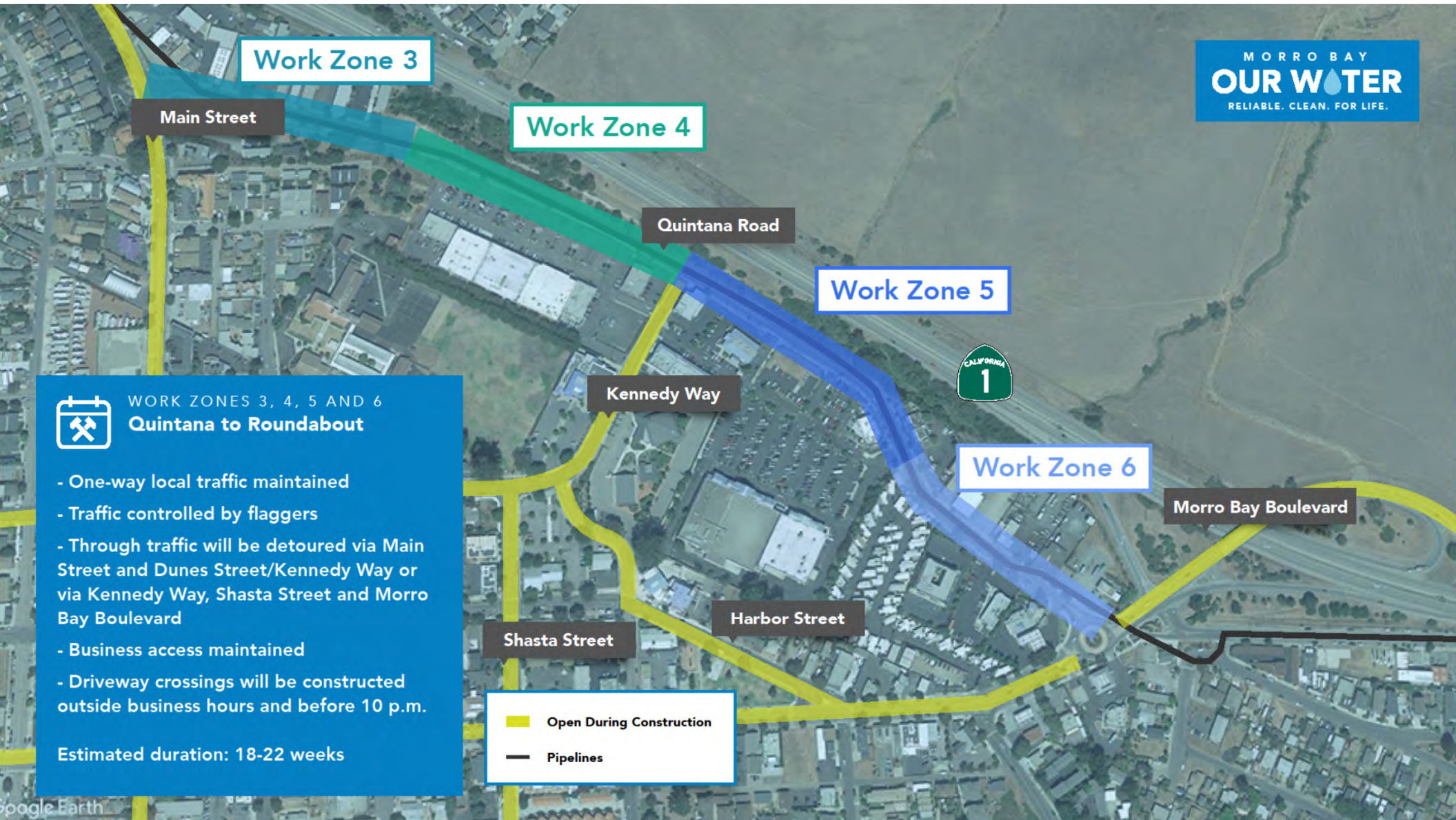


WORK ZONE 2
**Main Street from unnamed
road to Quintana Road**

- Two-way traffic maintained
- Business access maintained
- Driveway crossings and Quintana Way intersection will be constructed outside business hours and before 10 p.m.

Estimated duration: 5-6 weeks

-  Pump Station
-  Open During Construction
-  Pipelines







PRIVATE PARCEL INFORMATION

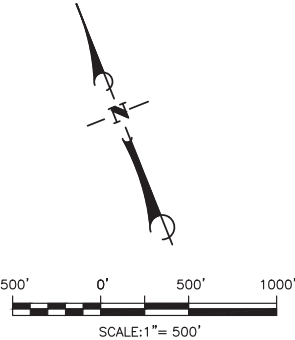
| ASSESSOR PARCEL NO. | ADDRESS | OWNER |
|---------------------|-------------|-----------------------|
| 10a | 065-182-010 | NONE |
| 40 | 066-331-040 | NONE |
| 36 | 066-331-036 | 1281 EMBARCADERO ROAD |
| 01a | 066-332-001 | NONE |
| 02a | 066-332-002 | NONE |
| 02b | 066-461-002 | NONE |
| 07 | 068-411-007 | NONE |
| 17a | 068-411-017 | 1405 TERESA DRIVE |
| 01b | 068-412-001 | NONE |
| 10b | 068-412-010 | NONE |
| 37 | 066-084-037 | 929 PACIFIC STREET |
| 17b | 073-101-017 | NONE |

LEGEND

- PARCEL(S) OWNED BY CITY OF MORRO BAY
(MAY INCLUDE MULTIPLE ASSESSOR PARCELS)
- PARCEL(S) OWNED BY CAYUCOS SANITARY DISTRICT
(MAY INCLUDE MULTIPLE ASSESSOR PARCELS)
- PRIVATELY OWNED PARCEL
- PROPOSED PIPELINE ALIGNMENT "EAST/QUINTANA ROUTE"
- PROPOSED ALTERNATE ALIGNMENT "WEST/EMBARCADERO ROUTE"
- WRF

LOCATION OF PROPOSED WRF
- 5A

LOCATION OF PROPOSED LIFT STATION, ALTERNATIVE 5A



SHEET 1 MAPPING NOTE

ASSESSOR PARCEL LINE DATA PROVIDED BY THE CITY OF MORRO BAY. THERE ARE NUMEROUS INCONSISTENCIES BETWEEN THE LINE DATA AND THE COUNTY OF SAN LUIS OBISPO ASSESSOR PARCEL MAPS. THERE HAS BEEN NO ATTEMPT TO RESOLVE THE DIFFERENCES.

SURVEYOR'S STATEMENT

THIS MAP WAS PREPARED BY ME OR UNDER MY DIRECTION AT THE REQUEST OF WATER WORKS ENGINEERS IN DECEMBER 2017.

JUSTIN P. HEIGHT
PLS 6167, STATE OF CALIFORNIA

DATE _____



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EXHIBIT MAP
RIGHT OF WAY ANALYSIS
CITY OF MORRO BAY WRF LIFT STATION
AND OFFSITE PIPELINES PROJECT
DECEMBER 2017

| |
|----------------------------|
| JOB NUMBER: 17112 |
| FIELD: |
| DATE: |
| OFFICE: JPH |
| DATE: 01-16-2018 |
| FILE: 0117-01961ROWExh.dwg |

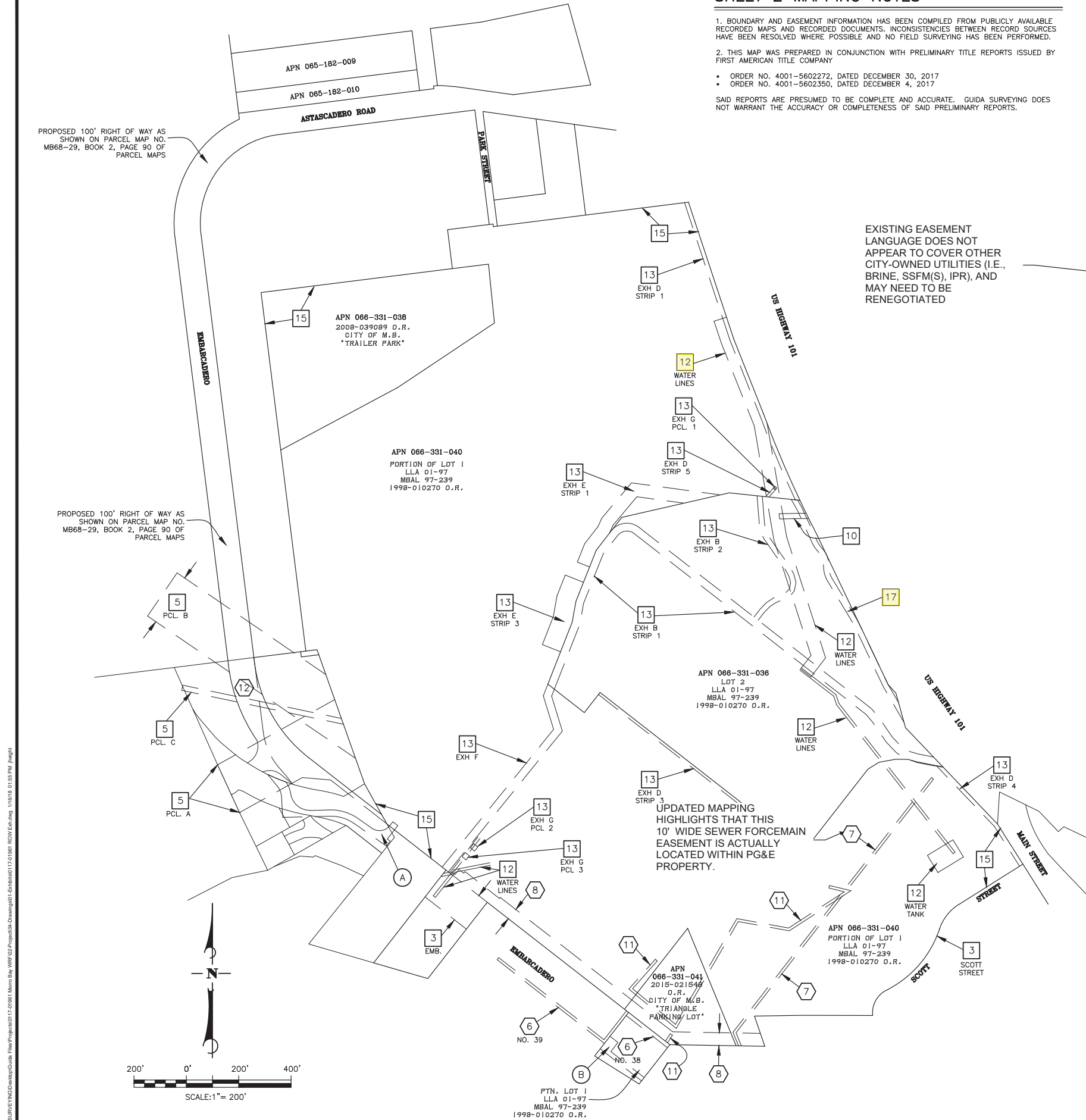
PRAXIS
Ideas into Action

Praxis Consolidated International, Inc.
205 Suburban Road, Suite 1
San Luis Obispo, CA 93401
(805) 489-9900 www.praxisci.com

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Attachment 11 - Right of Way Map

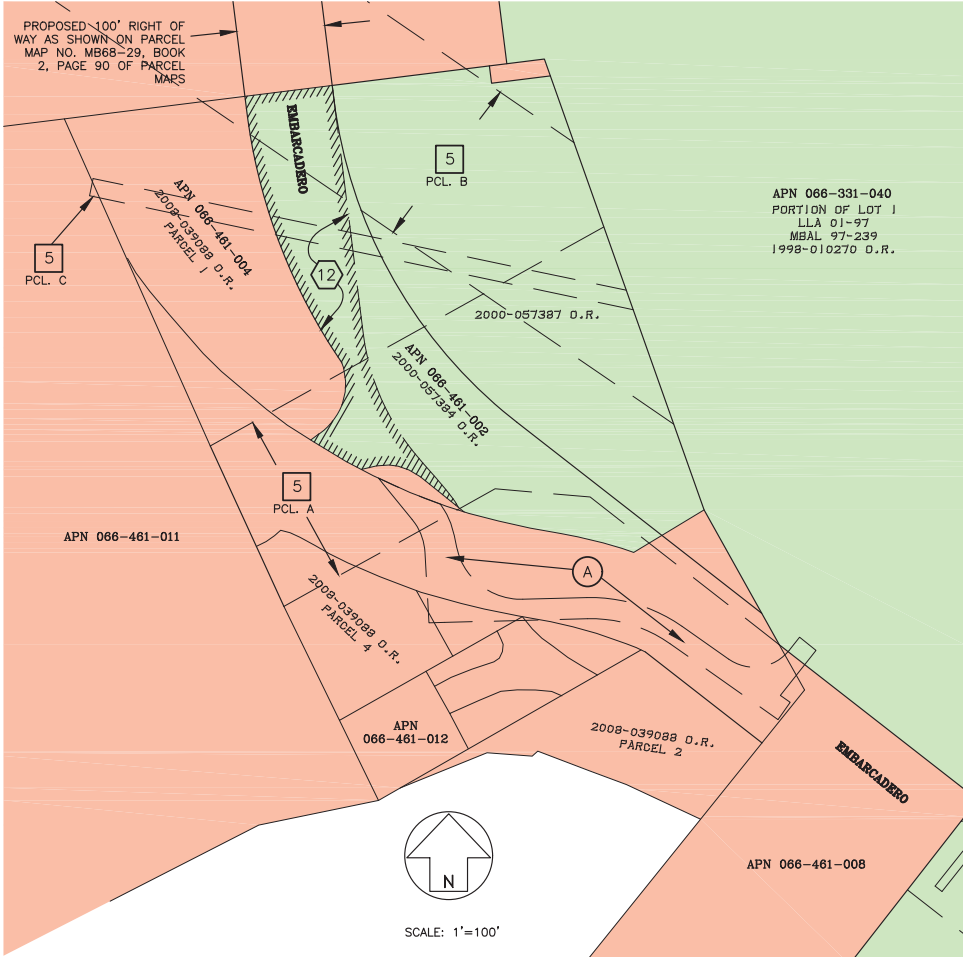


SHEET 2 MAPPING NOTES

1. BOUNDARY AND EASEMENT INFORMATION HAS BEEN COMPILED FROM PUBLICLY AVAILABLE RECORDED MAPS AND RECORDED DOCUMENTS. INCONSISTENCIES BETWEEN RECORD SOURCES HAVE BEEN RESOLVED WHERE POSSIBLE AND NO FIELD SURVEYING HAS BEEN PERFORMED.
 2. THIS MAP WAS PREPARED IN CONJUNCTION WITH PRELIMINARY TITLE REPORTS ISSUED BY FIRST AMERICAN TITLE COMPANY.
 - ORDER NO. 4001-5602272, DATED DECEMBER 30, 2017
 - ORDER NO. 4001-5602350, DATED DECEMBER 4, 2017
- SAID REPORTS ARE PRESUMED TO BE COMPLETE AND ACCURATE. GUIDA SURVEYING DOES NOT WARRANT THE ACCURACY OR COMPLETENESS OF SAID PRELIMINARY REPORTS.

SHEET 2 EASEMENT NOTES

- PRELIMINARY TITLE REPORT 4001-5602350
NUMBER CORRESPONDS TO ITEM NUMBER IN REPORT. NOT ALL EXCEPTION ITEMS ARE NOTED.
- 3 An easement to the County of San Luis Obispo for roads as reserved in the document recorded September 25, 1951 as Book 628, Page 342 of Official Records. Other rights for ingress, egress, construction, public access and incidental purposes are reserved in said document.
 - 5 Easements to Pacific Gas and Electric Company in the document recorded July 20, 1955 as Book 811, Page 492 of Official Records.
Parcel A, an easement to install, replace, maintain, and access pipelines for discharging water
Parcel B, a 200' wide easement to install, replace, maintain, and access pipelines for conveying oil
Parcel C, a 20' wide easement to install, replace, maintain, and access and anode protection facilities
 - 10 An easement to Southern California Gas Company for pipelines and incidental purposes, recorded March 14, 1963 as Book 1230, Page 318 of Official Records.
 - 12 Easements to Morro Bay Mutual Water Company for water lines, well site, water tanks and incidental purposes, recorded July 2, 1998 as Instrument No. 1998-040834 of Official Records.
 - 13 Easements to Duke Energy Morro Bay LLC for ingress, egress and incidental purposes, recorded July 2, 1998 as Instrument No. 1998-040835 of Official Records.
 - 15 License to Duke Energy Morro Bay LLC to undertake environmentally remediation activities in the document recorded July 2, 1998 as Instrument No. 1998-040837 of Official Records. Blanket in nature - affects entirety of Lot 1 of MBAL 97-239.
 - 17 An easement to the City of Morro Bay for for bike path and water pipelines and incidental purposes, recorded July 14, 1999 as Instrument No. 1999-050890 of Official Records.
- PRELIMINARY TITLE REPORT 4001-5602272
NUMBER CORRESPONDS TO ITEM NUMBER IN REPORT. NOT ALL EXCEPTION ITEMS ARE NOTED.
- 6 An easement to the Morro Bay Sanitary District for sewer and incidental purposes, recorded February 18, 1954 as Book 746, Page 277 of Official Records.
 - 7 An easement to the City of Morro Bay for right of way and incidental purposes, recorded September 25, 1987 as Book 3052, Page 112 of Official Records.
 - 8 An easement to teh City of Morro Bay for right of way and incidental purposes, recorded March 4, 1998 as Instrument No. 1998-011771 of Official Records.
 - 11 An easement to Pacific Gas and Electric Company for underground conduits, pipes, wires, cables and incidental purposes, recorded March 24, 2014 as instrument No. 2014-011188 of Official Records.
 - 12 An offer of dedication to the City of Morro Bay for public right of way and incidental purposes, recorded May 8, 2014 as Instrument No. 2014-018088 of Official Records.
- EASEMENTS THAT DO NOT APPEAR IN PRELIMINARY TITLE REPORTS
- A An easement reserved by Dynegy Morro Bay LLC for ingress and egress, and a new gate, recorded July 29, 2008 as Instrument No. 2008-039088 of Official Records.
 - B An easement to the City of Morro Bay for pedestrian walkway purposes in the document recorded July 29, 2008 as Instrument No. 2008-039090 of Official Records.



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EXHIBIT MAP
RIGHT OF WAY ANALYSIS
CITY OF MORRO BAY WRF LIFT STATION
AND OFFSITE PIPELINES PROJECT
DECEMBER 2017

JOB NUMBER: 17112
FIELD:
DATE:
OFFICE: JPH
DATE: 01-16-2018
FILE: 0117-01961ROWExh.dwg

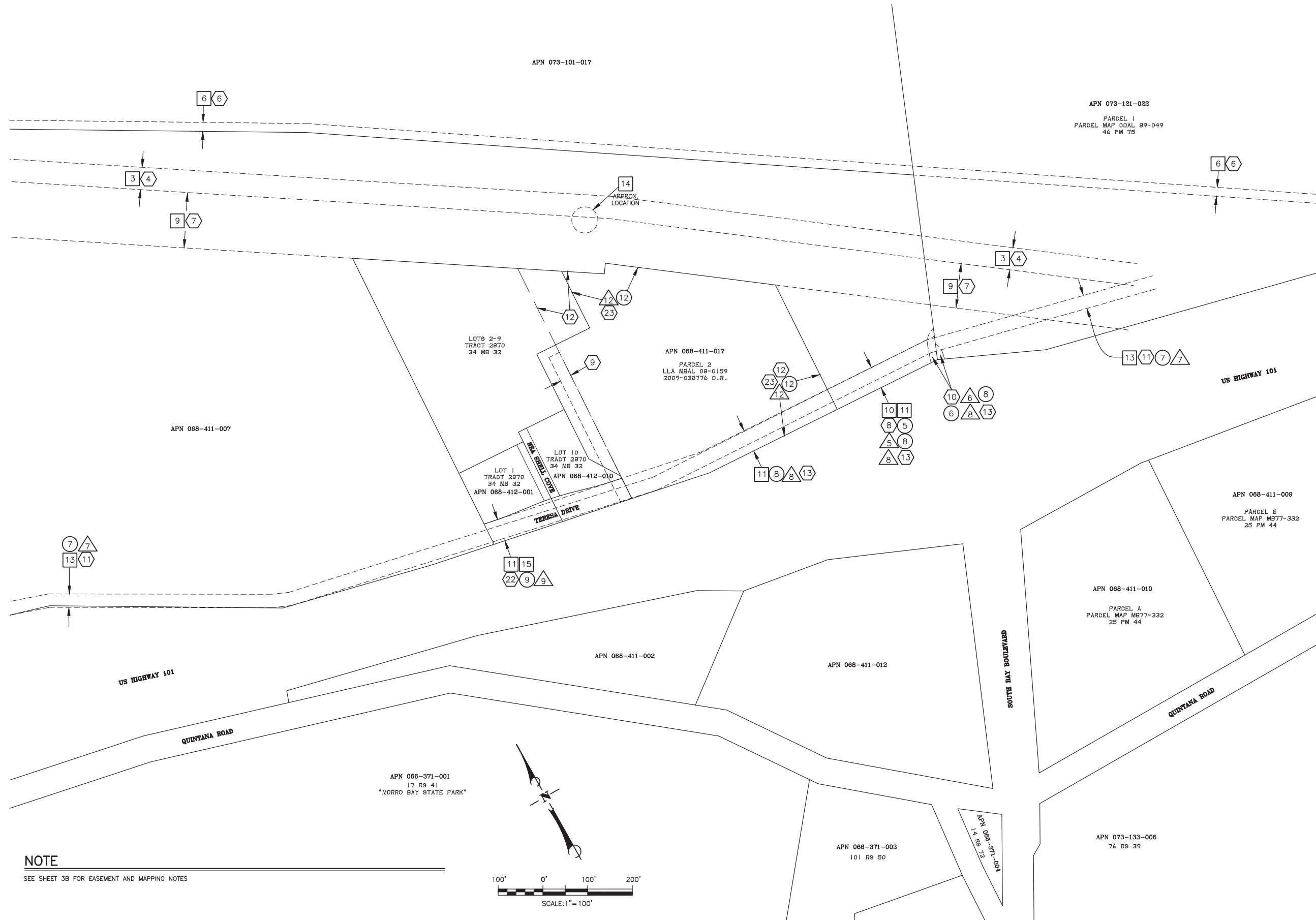
SHEET
2
OF 4 SHEETS

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(805) 489-9900
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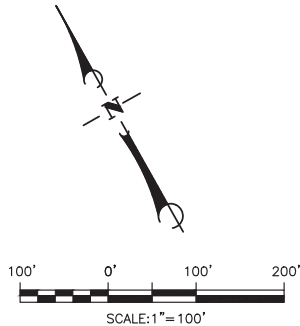
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Attachment 11 - Right of Way Map



NOTE

SEE SHEET 3B FOR EASEMENT AND MAPPING NOTES



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(805) 489-9900 www.praxisci.com



| APPRO. | | REVISIONS | | NO. | | DATE | |
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EXHIBIT MAP
RIGHT OF WAY ANALYSIS
CITY OF MORRO BAY WRF LIFT STATION
AND OFFSITE PIPELINES PROJECT
DECEMBER 2017

JOB NUMBER: 17112
FIELD:
DATE:
OFFICE: JPH
DATE: 01-16-2018
FILE: 0117-01961ROWExh.dwg

SHEET
3A
OF 4 SHEETS

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| 3 | An easement to Pacific Gas and Electric Company for public utilities and incidental purposes, recorded July 7, 1954 as Book 783, Page 65 of Official Records. |
| 6 | An easement to the State of California for water pipeline, right of way, ingress, egress and incidental purposes, in the document recorded March 23, 1961 as Book 1115, Page 39 of Official Records. |
| 9 | An easement to Pacific Gas and Electric Company for public utilities and incidental purposes, recorded August 16, 1967 as Book 1445, Page 345 of Official Records. |
| 10 | An easement to Safecore Company Inc. for access, utilities and incidental purposes, recorded June 30, 1971 as Book 1621, Page 785 of Official Records. |
| 11 | An easement reserved by Louis F. Domenghini, et. al. for Ingress, egress, public utilities and incidental purposes in the document recorded July 3, 1975 as Book 1841, Page 745 of Official Records. |
| 13 | An easement to the San Luis Obispo County Flood Control District for Chorro Valley Water Pipeline and incidental purposes, recorded November 28, 1995 as Instrument No. 1995-055089 of Official Records. |
| 14 | A lease to Central Coast Wireless Properties for wireless facilities in the document entitled Memorandum of Wireless Facility Lease recorded July 23, 2003 as Instrument No. 2003-081987 of Official Records. |
| 15 | An easement to owner of APN 068-411-007 for private roadway and public utilities in the document recorded November 29, 2006 as Instrument No. 2006-084202 of Official Records. |

- 5 An easement to Safecore Company Inc. for constructing and thereafter operating, maintaining, repairing and reconstructing an access road and for constructing, installing, maintaining and operating any and all utilities; and incidental purposes in the document recorded June 30, 1971 as Book 1621, Page 781 of Official Records.
- 6 The terms and provisions contained in the document entitled Grant of Easements and Mutual Covenants Among Adjoining Landowners recorded July 23, 1986 as Instrument No. 45406 as in Book 2861, Page 443 of Official Records.
- 7 An easement to the San Luis Obispo County Flood Control and Water Conservation District, for a permanent easement in gross to survey, install, construct, reconstruct, enlarge, lay, alter, operate, patrol, remove, add to, replace and maintain a water conduit consisting of one or more underground water pipelines and related facilities; and incidental purposes in the document recorded September 18, 1995 as Instrument No. 1995-042081 of Official Records.
- 8 An easement to Robert J. Zinngrabe, Trustee of the New Life Family Trust Dated November 23, 1981 to construct, operate, use, maintain, repair and replace an access road, ingress and egress; along with the right to install utilities and drainage pipes, ditches or culverts; and incidental purposes, recorded March 15, 2001 as Instrument No. 2001-016086 of Official Records.
- 9 An easement to the owner of APN 068-411-007 for private roadway and public utilities, including but not limited to water, electric, gas, telephone, cable, sewers and drainage; and incidental purposes in the document recorded November 29, 2006 as Instrument No. 2006-084202 of Official Records.
- 12 An easement to Southern California Gas Company for right to excavate for, lay, construct, reconstruct, relocate, reconfigure, use, inspect, maintain, operate, repair, replace, patrol, change the size of, add to, or remove from time to time one or more pipelines and conduits, together with devices for metering, measuring, regulating, cathodic protection, communications and other appurtenances for the transportation and distribution of natural gas and communications; together with the reasonable right of ingress and egress; and incidental purposes in the document recorded February 27, 2014 as Instrument No. 2014-007735 of Official Records.
- 14 An easement for drainages, public water and public utility, private access, sewer easement, open space conservation purposes as shown or dedicated on the map of Tract 2870 Seashell Estates, recorded April 28, 2014 as Book 34, Pages 32 through 35 of Maps.

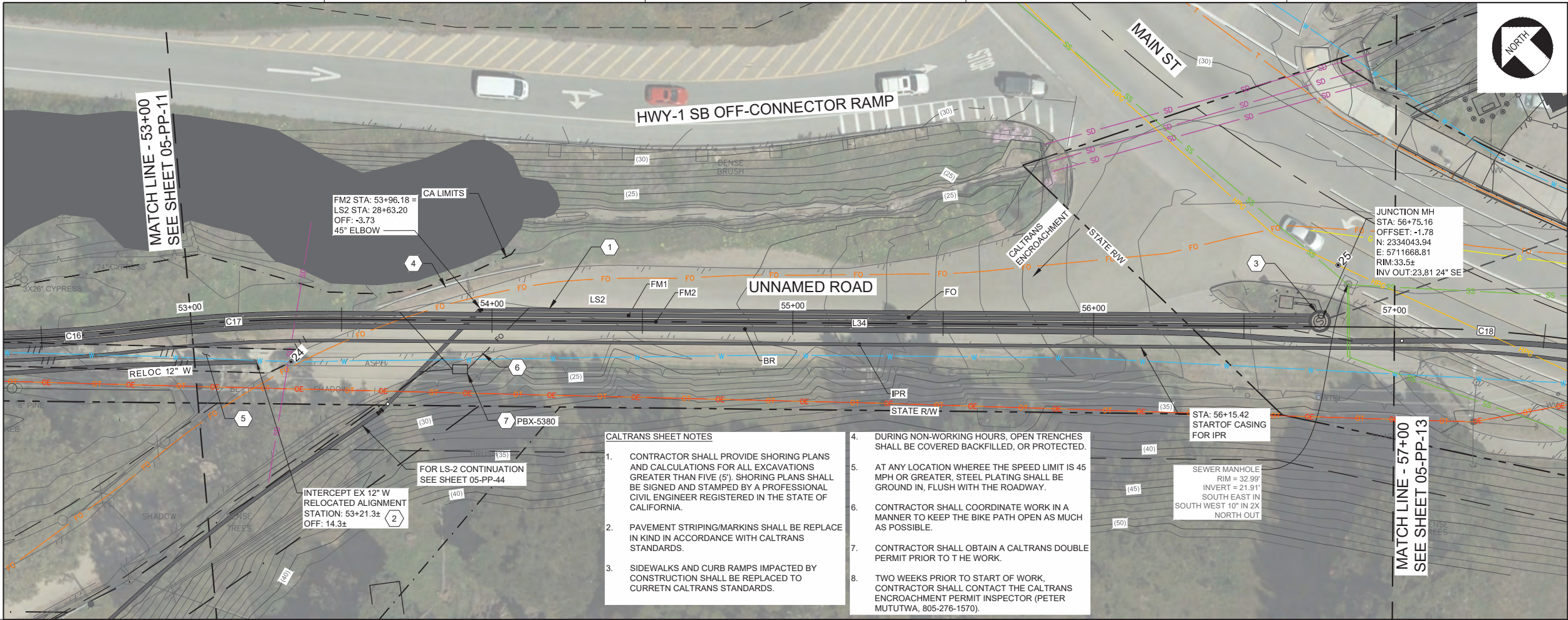
- 4 An easement to Pacific Gas and Electric Company for electrical facilities and incidental purposes in the document recorded July 7, 1954 as Book 763, Page 65 of Official Records. Note: A Consent to Common Use recorded September 28, 1965 as Book 1368, Page 356 of Official Records.
- 6 An easement to the State of California for right of way to lay, construct, maintain, repair, renew, change the size of and remove a pipeline for the transportation of water, ingress and egress; and incidental purposes in the document recorded March 23, 1961 as Book 1115, Page 39 of Official Records.
- 7 An easement to Pacific Gas and Electric Company for electrical facilities and incidental purposes in the document recorded July 20, 1965 as Book 1359, Page 207 of Official Records.
- 8 An easement to Safecore Company Inc. for constructing and thereafter operating, maintaining, repairing and reconstructing an access road and for constructing, installing, maintaining and operating any and all utilities; and incidental purposes in the document recorded June 30, 1971 as Book 1621, Page 781 of Official Records.
- 9 An easement to Morro Bay Hospital Inc. for ingress, egress, access; and incidental purposes in the document recorded January 17, 1984 as Book 2558, Page 301 of Official Records.
- 10 The terms and provisions contained in the document entitled Grant of Easements and Mutual Covenants Among Adjoining Landowners recorded July 23, 1986 as Instrument No. 45406, Book 2861, Page 443 of Official Records.
- 11 An easement to San Luis Obispo County Flood Control and Water Conservation District for a permanent easement in, gross to survey, install, alter, reconstruct, enlarge, lay, alter, operate, patrol, remove, add to, relay, replace and maintain a water conduit, consisting of one or more underground water pipelines and related facilities; and incidental purposes in the document recorded September 18, 1995 as Instrument No. 1995-042081 of Official Records.
- 12 An unrecorded lease dated August 1, 1998, executed by SeaShell Communities Asset Corporation, a Delaware corporation as lessor and Compass Health, Inc., a California corporation as lessee, as disclosed by a Memorandum of Lease recorded October 15, 1998 as Instrument No. 1998-066663 of Official Records.
- 13 An easement to Robert J. Zinngrabe, Trustee of the New Life Family Trust Dated November 23, 1981 to construct, operate, use, maintain, repair and replace an access road, ingress and egress; along with the right to install utilities and drainage pipes, ditches or culverts; and incidental purposes in the document recorded March 15, 2001 as Instrument No. 2001-016086 of Official Records.
- 22 An easement to the owner of APN 068-411-007 for private roadway and public utilities, including but not limited to water, electric, gas, telephone, cable, sewers and drains; and incidental purposes in the document recorded November 29, 2006 as Instrument No. 2006-084202 of Official Records.
- 23 The terms and provisions contained in the document entitled "Nonexclusive Installation and Service Agreement" recorded November 17, 2010 as Instrument No. 2010-058444 of Official Records. By and Between: Charter Communications Properties LLC and Compass Health Inc.

- 5 An easement to Safecore Company Inc. for constructing and thereafter operating, maintaining, repairing and reconstructing an access road and for constructing, installing, maintaining and operating any and all utilities; and incidental purposes in the document recorded June 30, 1971 as Book 1621, Page 781 of Official Records.
- 6 The terms and provisions contained in the document entitled Grant of Easements and Mutual Covenants Among Adjoining Landowners recorded July 23, 1986 as Instrument No. 45406 in Book 2861, Page 443 of Official Records.
- 7 An easement to San Luis Obispo County Flood Control and Water Conservation District, for a permanent easement in gross to survey, install, construct, reconstruct, enlarge, lay, alter, operate, patrol, remove, add to, relay, replace and maintain a water conduit consisting of one or more underground water pipelines and related facilities; and incidental purposes in the document recorded September 18, 1995 as Instrument No. 1995-042081 of Official Records.
- 8 An easement to Robert J. Zinngrave, Trustee of the New Life Family Trust Dated November 23, 1981 to construct, operate, use, maintain, repair and replace an access road, ingress and egress; along with the right to install utilities and drainage pipes, ditches or culverts; and incidental purposes in the document recorded March 15, 2001 as Instrument No. 2001-016086 of Official Records.
- 9 An easement to the owner of APN 068-411-007 for private roadway and public utilities, including but not limited to water, electric, gas, telephone, cable, sewers and drainage; and incidental purposes in the document recorded November 29, 2006 as Instrument No. 2006-084202 of Official Records.
- 12 An easement to Southern California Gas Company for right to excavate for, lay, construct, reconstruct, relocate, reconfigure, use, inspect, maintain, operate, repair, replace, patrol, change the size of, add to, or remove from time to time one or more pipelines and conduits, together with devices for metering, measuring, regulating, cathodic protection, communications and other appearances for the transportation and distribution of natural gas and communications; together with the reasonable right of ingress and egress; and incidental purposes in the document recorded February 27, 2014 as Instrument No. 2014-007735 of Official Records.
- 14 An easement for drainage, public water and public utility, private access, sewer easement, open space conservation purposes as shown or dedicated on the map of Tract 2870 Seashell Estates, recorded April 28, 2014 as Book 34, Pages 32 through 35 of Maps.

Attachment 11 - Right of Way Map

SHEET
3B
OF 4 SHEETS

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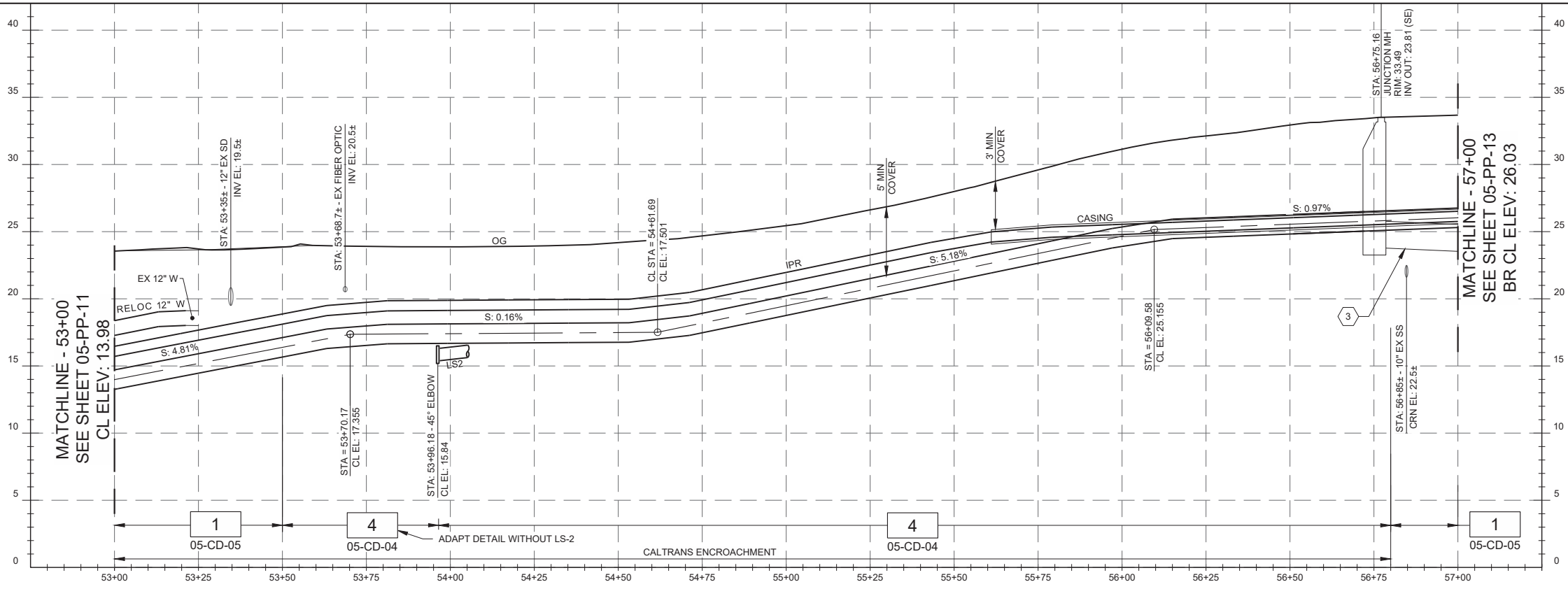


- NOTES:
1. THE CONTRACTOR SHALL COMPLY WITH THE GENERAL CIVIL NOTES AND PERMITTING GENERAL NOTES.
 2. HORIZONTAL ALIGNMENT AND PROFILE VERTICAL CURVES HEREIN ARE DESIGNED WITH THE MIN BENDING RADIUS OF THE LARGEST PIPELINE ASSUMING FPVC IS SELECTED. SMALLER BEND RADI MAY BE FEASIBLE DEPENDING ON THE PIPELINE MATERIAL AND LOCATION. THE CONTRACTOR MAY SUBMIT FOR APPROVAL MINOR HORIZONTAL ALIGNMENT CHANGES AND PROFILE VERTICAL CHANGES SO AS IT REDUCES FIELD CONFLICTS, REDUCES FITTINGS WHERE POSSIBLE, IS NOT ZERO SLOPED, AND DOES NOT RESULT IN A HIGH-SPOT.
 3. WETLAND BOUNDARY IS REPRESENTATIVE OF CDFW/RWQCB/CCC JURISDICTION AS DELINEATED IN THE PROJECT BIOLOGICAL RESOURCES ASSESSMENT (KMA 2019).
 4. CONSTRUCTION ACTIVITY (CA) LIMITS OFFSET 3' FROM EDGE OF WETLAND BOUNDARY. GROUND DISTURBING ACTIVITIES SHALL NOT EXTEND PAST CA LIMITS. SWPPP BMPs SHALL BE INSTALLED PER APPROVED SWPPP PLAN AT A MINIMUM ALONG CA LIMITS.

- CONSTRUCTION KEY NOTES:
1. INSTALL WRF OFFSITE PIPELINES, VALVES, AND APPURTENANCES PER HORIZONTAL PLAN AND VERTICAL PROFILE. ALIGNMENT IS CL OF FM2 UNLESS OTHERWISE NOTED. ORDER, PLACEMENT, AND REQUIRED CLEARANCES SHALL BE DETERMINED PER SPECIFIED TRENCH DETAIL UNDER PROFILE. SIZE & CLASS OF CARRIER AND/OR CASING PIPE MATERIALS ARE LISTED SCHEMATICALLY ABOVE PROFILE.
 2. CONNECT RELOC 12"W TO EX 12"W PVC C900.
 3. GRAVITY SEWER TO PS-B CONNECTION PER DWG 05-PP-45.
 4. PROTECT GUARD RAIL IN PLACE.
 5. REPLACE 35-LF EX BIKE PATH PER DET 3/05-CD-04.
 6. WHERE FO DIVERGES FROM MAIN ALIGNMENT INSTALL PER DET 1/05-CD-09
 7. INSTALL FIBER PULLBOX PER DWG 00-E-04/VLT SIZE S534.

- CALTRANS SHEET NOTES
1. CONTRACTOR SHALL PROVIDE SHORING PLANS AND CALCULATIONS FOR ALL EXCAVATIONS GREATER THAN FIVE (5'). SHORING PLANS SHALL BE SIGNED AND STAMPED BY A PROFESSIONAL CIVIL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.
 2. PAVEMENT STRIPING/MARKINS SHALL BE REPLACE IN KIND IN ACCORDANCE WITH CALTRANS STANDARDS.
 3. SIDEWALKS AND CURB RAMPS IMPACTED BY CONSTRUCTION SHALL BE REPLACED TO CURRETN CALTRANS STANDARDS.
 4. DURING NON-WORKING HOURS, OPEN TRENCHES SHALL BE COVERED BACKFILLED, OR PROTECTED.
 5. AT ANY LOCATION WHERE THE SPEED LIMIT IS 45 MPH OR GREATER, STEEL PLATING SHALL BE GROUND IN, FLUSH WITH THE ROADWAY.
 6. CONTRACTOR SHALL COORDINATE WORK IN A MANNER TO KEEP THE BIKE PATH OPEN AS MUCH AS POSSIBLE.
 7. CONTRACTOR SHALL OBTAIN A CALTRANS DOUBLE PERMIT PRIOR TO T HE WORK.
 8. TWO WEEKS PRIOR TO START OF WORK, CONTRACTOR SHALL CONTACT THE CALTRANS ENCROACHMENT PERMIT INSPECTOR (PETER MUTUTWA, 805-276-1570).

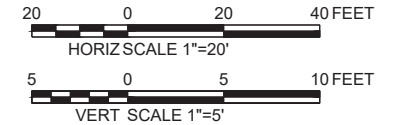
FO (4" FPVC C900 DR-25 OR 4" HDPE 4710 IPS DR-21 OR 4" SCH-40 PVC1)
LS2 (10" FPVC C900 DR-25 OR 12" HDPE 4710 IPS DR-17)
FM1 (10" FPVC C900 DR-25 OR 12" HDPE 4710 IPS DR-17)
FM2 (16" FPVC C900 DR-25 OR 18" HDPE 4710 IPS DR-17)
BR (16" FPVC C900 DR-25 OR 18" HDPE 4710 IPS DR-17)
IPR (8" FPVC C900 DR-25 OR 10" HDPE 4710 IPS DR-17) IN CASING PER DET 1/05-CD-15
12" W (12" FPVC C900 DR-18)
IPR (8" FPVC C900 DR-25 OR 10" HDPE 4710 IPS DR-17) IN CASING PER DET 1/05-CD-15



POTHOLING RESULTS:

EXISTING POTHOLING LOCATIONS AND RESULTS ARE APPROXIMATE, NOT SURVEYED, AND DO NOT PRECLUDE THE CONTRACTOR'S SOLE RESPONSIBILITY TO COMPLY WITH UTILITY VERIFICATION REQUIREMENTS.

- 41" CVR, 12" W
46" CVR, 16" HPG



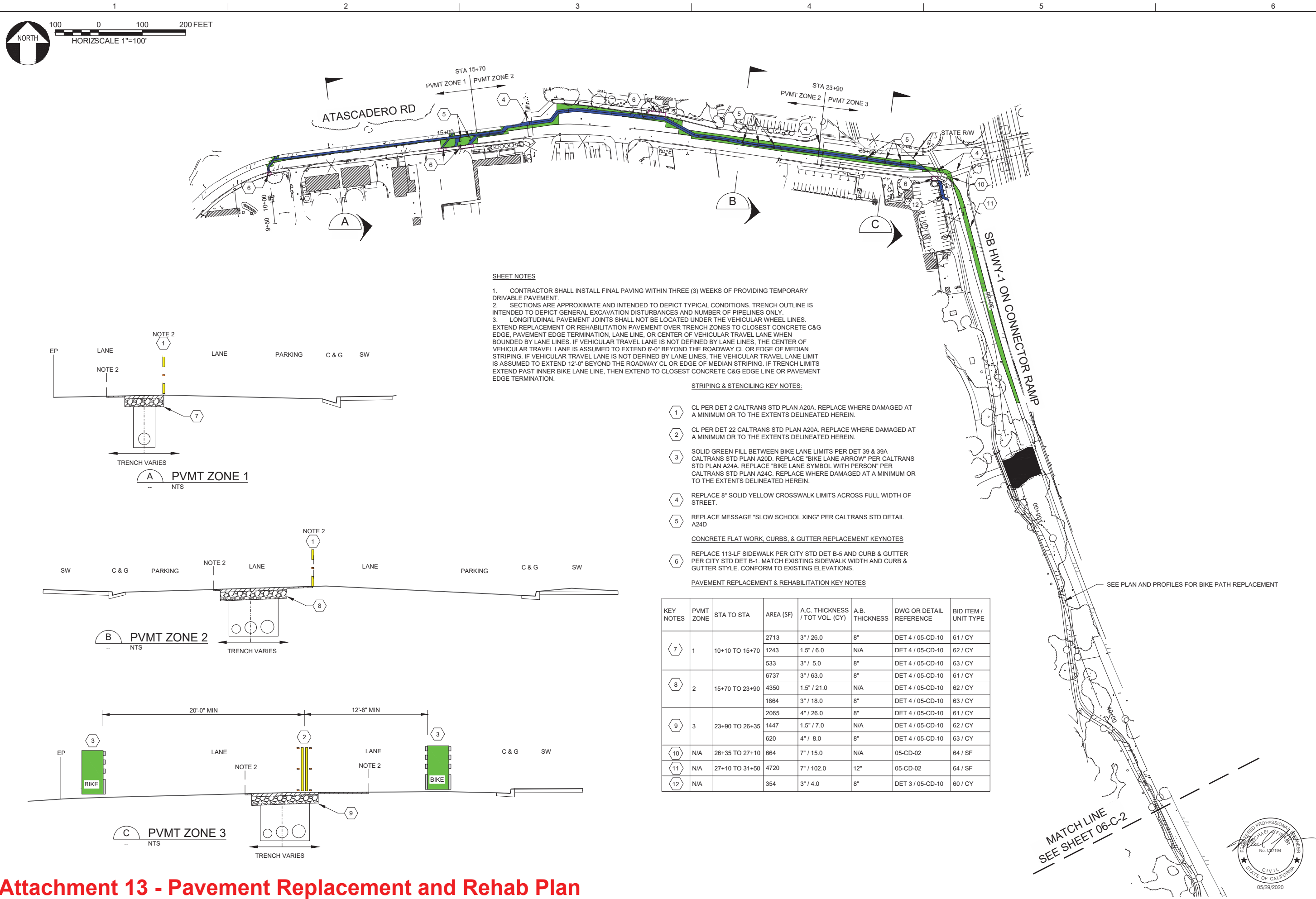
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ENGINEERS
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CITY OF MORRO BAY
WATER RECLAMATION FACILITY
LIFT STATION AND OFFSITE
PIPELINES

PLAN AND PROFILE
FORCE MAIN PLAN AND PROFILE
STA 53+00 TO STA 57+00

DATE
MAY 2020
PROJECT NUMBER
17-082
DRAWING NUMBER
05-PP-12
SHEET NUMBER
35

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Attachment 13 - Pavement Replacement and Rehab Plan

| | |
|----------|------------|
| DESIGN | P. WEBSTER |
| DRAWN | P. WEBSTER |
| CHECKED | T. LEWIS |
| APPROVED | M. FISHER |

WATERWORKS
ENGINEERS

2290 Douglas Blvd, Suite 105 • Roseville, CA 95661 • 916-780-2888

CITY OF MORRO BAY
WATER RECLAMATION FACILITY
LIFT STATION AND OFFSITE
PIPELINES

CIVIL
PAVEMENT REPLACEMENT AND
REHABILITATION PLAN
STA 10+00 TO STA 42+50

| | |
|----------------|----------|
| DATE | MAY 2020 |
| PROJECT NUMBER | 17-082 |
| DRAWING NUMBER | 06-C-1 |
| SHEET NUMBER | 108 |

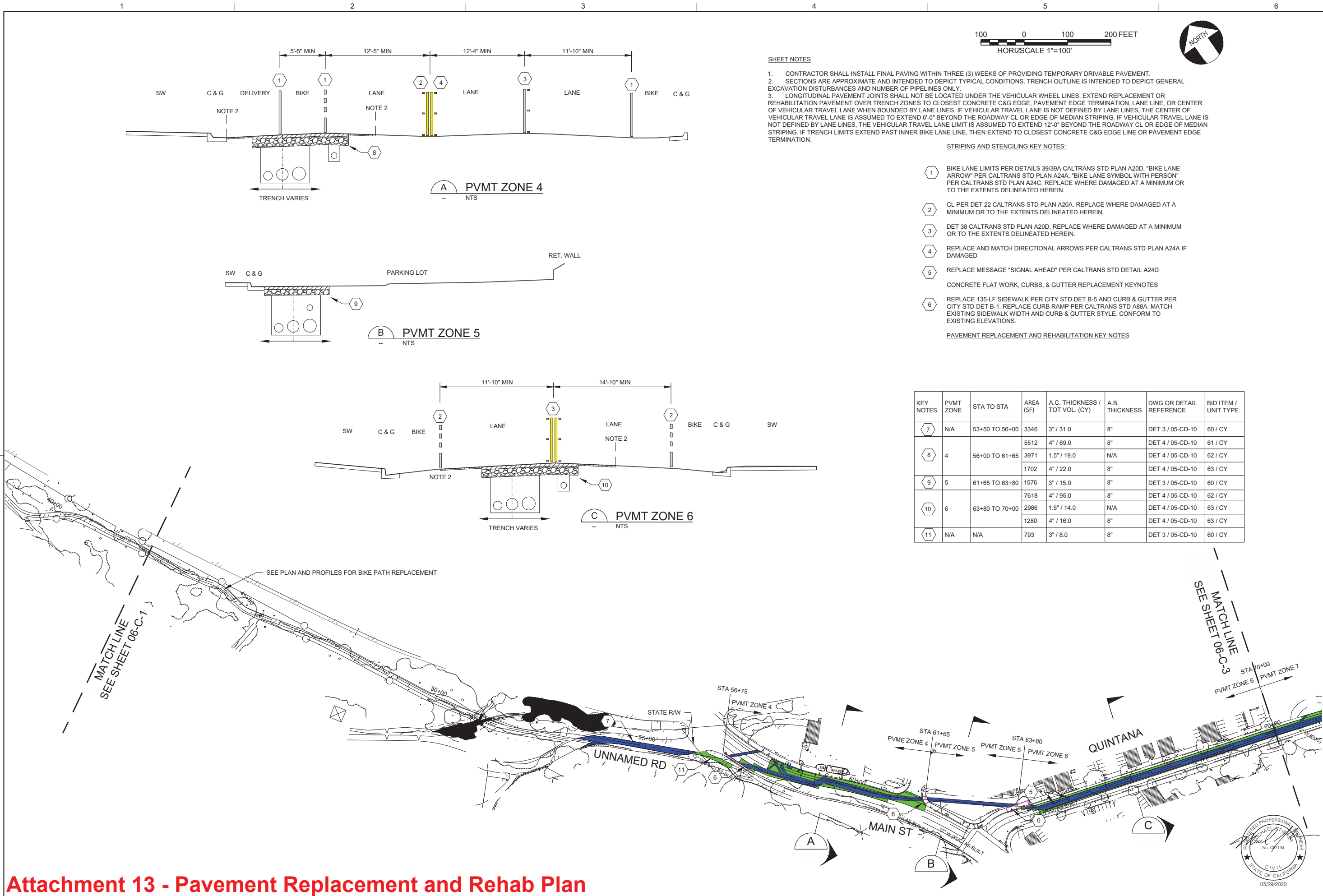
JOB NUMBER: 17-082

FILENAME: 1782D-06C101.DWG

PLOT DATE: 06/15/20

PLOT TIME: 09:08:33

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SHEET NOTES

- CONTRACTOR SHALL INSTALL FINAL PAVING WITHIN THREE (3) WEEKS OF PROVIDING TEMPORARY DRIVABLE PAVEMENT.
- SECTIONS ARE APPROXIMATE AND INTENDED TO DEPICT TYPICAL CONDITIONS. TRENCH OUTLINE IS INTENDED TO DEPICT GENERAL EXCAVATION DISTURBANCES AND NUMBER OF PIPELINES ONLY.
- LONGITUDINAL PAVEMENT JOINTS SHALL NOT BE LOCATED UNDER THE VEHICULAR WHEEL LINES. EXTEND REPLACEMENT OR REHABILITATION PAVEMENT OVER TRENCH ZONES TO CLOSEST CONCRETE C&G EDGE, PAVEMENT EDGE TERMINATION, LANE LINE, OR CENTER OF VEHICULAR TRAVEL LANE WHEN BOUNDED BY LANE LINES. IF VEHICULAR TRAVEL LANE IS NOT DEFINED BY LANE LINES, THE CENTER OF VEHICULAR TRAVEL LANE IS ASSUMED TO EXTEND 6'-0" BEYOND THE ROADWAY CL OR EDGE OF MEDIAN STRIPING. IF VEHICULAR TRAVEL LANE IS NOT DEFINED BY LANE LINES, THE VEHICULAR TRAVEL LANE LIMIT IS ASSUMED TO EXTEND 12'-0" BEYOND THE ROADWAY CL OR EDGE OF MEDIAN STRIPING. IF TRENCH LIMITS EXTEND PAST INNER BIKE LANE LINE, THEN EXTEND TO CLOSEST CONCRETE C&G EDGE LINE OR PAVEMENT EDGE TERMINATION.

STRIPING AND STENCILING KEY NOTES:

- BIKE LANE LIMITS PER DETAILS 39/39A CALTRANS STD PLAN A20D, "BIKE LANE ARROW" PER CALTRANS STD PLAN A24A, "BIKE LANE SYMBOL WITH PERSON" PER CALTRANS STD PLAN A24C. REPLACE WHERE DAMAGED AT A MINIMUM OR TO THE EXTENTS DELINEATED HEREIN.
- CL PER DET 22 CALTRANS STD PLAN A20A. REPLACE WHERE DAMAGED AT A MINIMUM OR TO THE EXTENTS DELINEATED HEREIN.
- DET 38 CALTRANS STD PLAN A20D. REPLACE WHERE DAMAGED AT A MINIMUM OR TO THE EXTENTS DELINEATED HEREIN.
- REPLACE AND MATCH DIRECTIONAL ARROWS PER CALTRANS STD PLAN A24A IF DAMAGED
- REPLACE MESSAGE "SIGNAL AHEAD" PER CALTRANS STD DETAIL A24D
- CONCRETE FLAT WORK, CURBS, & GUTTER REPLACEMENT KEYNOTES
- REPLACE 135-LF SIDEWALK PER CITY STD DET B-5 AND CURB & GUTTER PER CITY STD DET B-1. REPLACE CURB RAMP PER CALTRANS STD A88A. MATCH EXISTING SIDEWALK WIDTH AND CURB & GUTTER STYLE. CONFORM TO EXISTING ELEVATIONS.

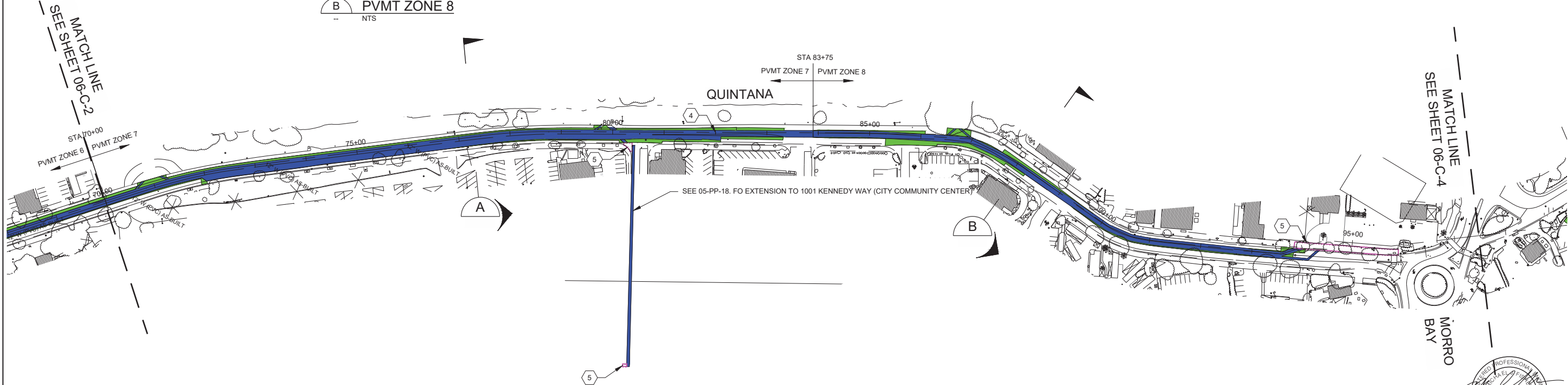
PAVEMENT REPLACEMENT AND REHABILITATION KEY NOTES

| KEY NOTES | PVMT ZONE | STA TO STA | AREA (SF) | A.C. THICKNESS / TOT VOL. (CY) | A.B. THICKNESS | DWG OR DETAIL REFERENCE | BID ITEM / UNIT TYPE |
|-----------|-----------|----------------|-----------|--------------------------------|----------------|-------------------------|----------------------|
| 7 | N/A | 53+50 TO 56+00 | 3346 | 3" / 31.0 | 8" | DET 3 / 05-CD-10 | 60 / CY |
| 8 | 4 | 56+00 TO 61+65 | 5512 | 4" / 69.0 | 8" | DET 4 / 05-CD-10 | 61 / CY |
| | | | 3971 | 1.5" / 19.0 | N/A | DET 4 / 05-CD-10 | 62 / CY |
| | | | 1702 | 4" / 22.0 | 8" | DET 4 / 05-CD-10 | 63 / CY |
| 9 | 5 | 61+65 TO 63+80 | 1576 | 3" / 15.0 | 8" | DET 3 / 05-CD-10 | 60 / CY |
| | | | 7618 | 4" / 95.0 | 8" | DET 4 / 05-CD-10 | 62 / CY |
| 10 | 6 | 63+80 TO 70+00 | 2986 | 1.5" / 14.0 | N/A | DET 4 / 05-CD-10 | 63 / CY |
| | | | 1280 | 4" / 16.0 | 8" | DET 4 / 05-CD-10 | 63 / CY |
| 11 | N/A | N/A | 793 | 3" / 8.0 | 8" | DET 3 / 05-CD-10 | 60 / CY |

Attachment 13 - Pavement Replacement and Rehab Plan

| | | | |
|--|--------------------|--------------------|----------------------|
| DESIGN P WEBSTER | DRAWN P WEBSTER | CHECKED T LEWIS | APPROVED M FISHER |
| WATERWORKS ENGINEERS 2290 Douglas Blvd, Suite 105 • Roseville, CA 95661 • 916-760-2888 | | | |
| CITY OF MORRO BAY WATER RECLAMATION FACILITY LIFT STATION AND OFFSITE PIPELINES | | | |
| CIVIL PAVEMENT REPLACEMENT AND REHABILITATION PLAN STA 42+50 TO STA 70+00 | | | |
| DATE MAY 2020 | | | |
| PROJECT NUMBER 17-082 | | | |
| DRAWING NUMBER 06-C-2 | | | |
| SHEET NUMBER 109 | | | |

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Attachment 13 - Pavement Replacement and Rehab Plan

SHEET NOTES

1. CONTRACTOR SHALL INSTALL FINAL PAVING WITHIN THREE (3) WEEKS OF PROVIDING TEMPORARY DRIVABLE PAVEMENT.
2. SECTIONS ARE APPROXIMATE AND INTENDED TO DEPICT TYPICAL CONDITIONS. TRENCH OUTLINE IS INTENDED TO DEPICT GENERAL EXCAVATION DISTURBANCES AND NUMBER OF PIPELINES ONLY.
3. LONGITUDINAL PAVEMENT JOINTS SHALL NOT BE LOCATED UNDER THE VEHICULAR WHEEL LINES. EXTEND REPLACEMENT OR REHABILITATION PAVEMENT OVER TRENCH ZONES TO CLOSEST CONCRETE C&G EDGE, PAVEMENT EDGE TERMINATION, LANE LINE, OR CENTER OF VEHICULAR TRAVEL LANE WHEN BOUNDED BY LANE LINES. IF VEHICULAR TRAVEL LANE IS NOT DEFINED BY LANE LINES, THE CENTER OF VEHICULAR TRAVEL LANE IS ASSUMED TO EXTEND 6'-0" BEYOND THE ROADWAY CL OR EDGE OF MEDIAN STRIPING. IF VEHICULAR TRAVEL LANE IS NOT DEFINED BY LANE LINES, THE VEHICULAR TRAVEL LANE LIMIT IS ASSUMED TO EXTEND 12'-0" BEYOND THE ROADWAY CL OR EDGE OF MEDIAN STRIPING. IF TRENCH LIMITS EXTEND PAST INNER BIKE LANE LINE, THEN EXTEND TO CLOSEST CONCRETE C&G EDGE LINE OR PAVEMENT EDGE TERMINATION.

STRIPING & STENCILING KEY NOTES:

1. BIKE LANE LIMITS PER DETAILS 39/39A CALTRANS STD PLAN A20D, "BIKE LANE ARROW" PER CALTRANS STD PLAN A24A, "BIKE LANE SYMBOL WITH PERSON" PER CALTRANS STD PLAN A24C. REPLACE WHERE DAMAGED AT A MINIMUM OR TO THE EXTENTS DELINEATED HEREIN.
 2. CL PER DET 22 CALTRANS STD PLAN A20A. REPLACE WHERE DAMAGED AT A MINIMUM OR TO THE EXTENTS DELINEATED HEREIN.
 3. TWO WAY LEFT TURN PER DET 32 CALTRANS STD PLAN A20D. REPLACE WHERE DAMAGED AT A MINIMUM OR TO THE EXTENTS DELINEATED HEREIN.
 4. REPLACE MEDIAN ISLAND WITH DIAGONAL FILL PER DET 29 CALTRANS STD PLAN A20B
- ## CONCRETE FLAT WORK, CURBS, & GUTTER REPLACEMENT KEYNOTES
5. REPLACE 230-LF SIDEWALK PER CITY STD DET B-5 AND CURB & GUTTER PER CITY STD DET B-1. REPLACE CROSS GUTTER AND SPANDREL PER CITY STD DETAIL B-3. REPLACE DRIVEWAY PER CITY STD DETAIL B-6 AND MATCH EX WIDTH. MATCH EXISTING SIDEWALK WIDTH AND CURB & GUTTER STYLE. CONFORM TO EXISTING ELEVATIONS.

PAVEMENT REPLACEMENT & REHABILITATION KEY NOTES

| KEY NOTES | PVMT ZONE | STA TO STA | AREA (SF) | A.C. THICKNESS / TOT VOL. (CY) | A.B. THICKNESS | DWG OR DETAIL REFERENCE | BID ITEM / UNIT TYPE |
|-----------|-----------|----------------|-----------|--------------------------------|----------------|-------------------------|----------------------|
| 6 | 7 | 70+00 TO 83+75 | 27,580 | 4" / 341.0 | 8" | DET 4 / 05-CD-10 | 61 / CY |
| | | | 5182 | 1.5" / 24.0 | N/A | DET 4 / 05-CD-10 | 62 / CY |
| | | | 2221 | 4" / 28.0 | 8" | DET 4 / 05-CD-10 | 63 / CY |
| 7 | 8 | 83+75 TO 94+00 | 13,133 | 4" / 163.0 | 8" | DET 4 / 05-CD-10 | 61 / CY |
| | | | 3479 | 1.5" / 17.0 | N/A | DET 4 / 05-CD-10 | 62 / CY |
| | | | 1491 | 4" / 19.0 | 8" | DET 4 / 05-CD-10 | 63 / CY |

| | |
|----------|-----------|
| DESIGN | P WEBSTER |
| DRAWN | P WEBSTER |
| CHECKED | T LEWIS |
| APPROVED | M FISHER |

WATERWORKS ENGINEERS
2280 Douglas Blvd, Suite 105 • Roseville, CA 95661 • 916-760-2888



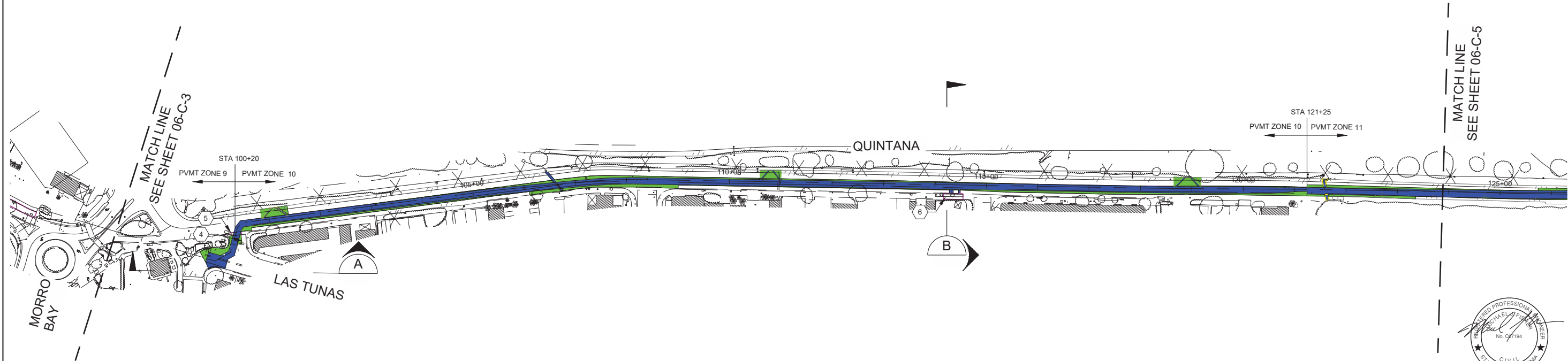
CITY OF MORRO BAY
WATER RECLAMATION FACILITY
LIFT STATION AND OFFSITE
PIPELINES

CIVIL
PAVEMENT REPLACEMENT AND
REHABILITATION PLAN
STA 70+00 TO STA 97+50

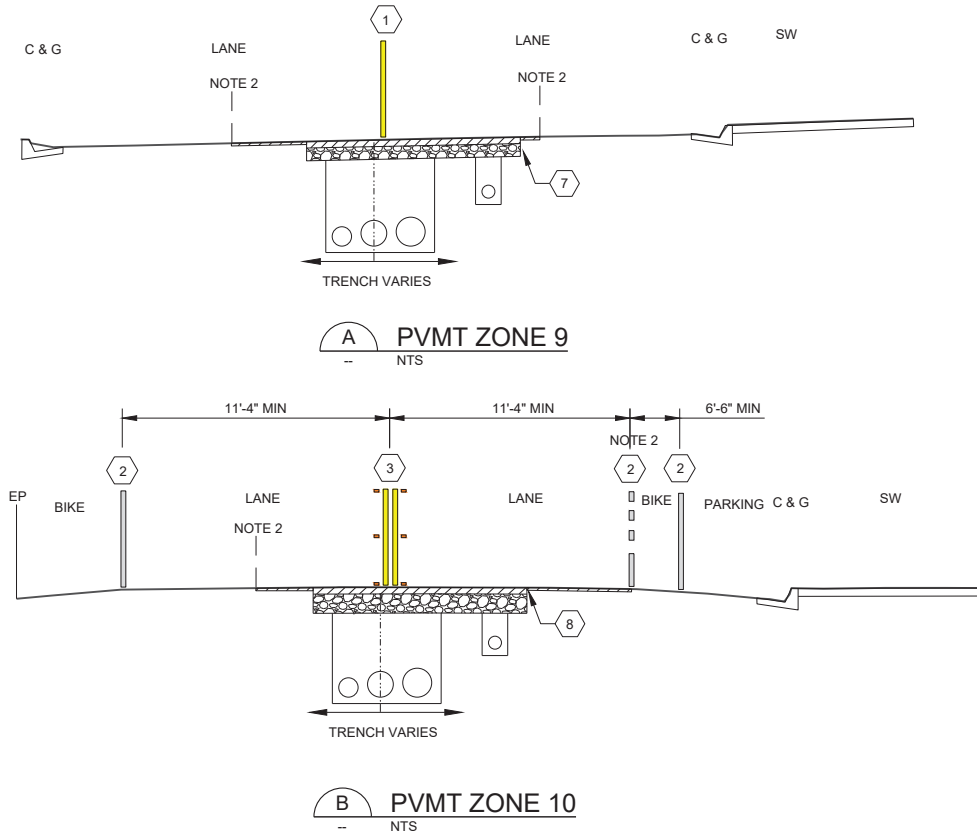


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|----------------|----------|
| DATE | MAY 2020 |
| PROJECT NUMBER | 17-082 |
| DRAWING NUMBER | 06-C-3 |
| SHEET NUMBER | 110 |

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Attachment 13 - Pavement Replacement and Rehab Plan



SHEET NOTES

1. CONTRACTOR SHALL INSTALL FINAL PAVING WITHIN THREE (3) WEEKS OF PROVIDING TEMPORARY DRIVABLE PAVEMENT.
2. SECTIONS ARE APPROXIMATE AND INTENDED TO DEPICT TYPICAL CONDITIONS. TRENCH OUTLINE IS INTENDED TO DEPICT GENERAL EXCAVATION DISTURBANCES AND NUMBER OF PIPELINES ONLY.
3. LONGITUDINAL PAVEMENT JOINTS SHALL NOT BE LOCATED UNDER THE VEHICULAR WHEEL LINES. EXTEND REPLACEMENT OR REHABILITATION PAVEMENT OVER TRENCH ZONES TO CLOSEST CONCRETE C&G EDGE, PAVEMENT EDGE TERMINATION, LANE LINE, OR CENTER OF VEHICULAR TRAVEL LANE WHEN BOUNDED BY LANE LINES. IF VEHICULAR TRAVEL LANE IS NOT DEFINED BY LANE LINES, THE CENTER OF VEHICULAR TRAVEL LANE IS ASSUMED TO EXTEND 6'-0" BEYOND THE ROADWAY CL OR EDGE OF MEDIAN STRIPING. IF VEHICULAR TRAVEL LANE IS NOT DEFINED BY LANE LINES, THE VEHICULAR TRAVEL LANE LIMIT IS ASSUMED TO EXTEND 12'-0" BEYOND THE ROADWAY CL OR EDGE OF MEDIAN STRIPING. IF TRENCH LIMITS EXTEND PAST INNER BIKE LANE LINE, THEN EXTEND TO CLOSEST CONCRETE C&G EDGE LINE OR PAVEMENT EDGE TERMINATION.

STRIPING & STENCILING KEY NOTES:

1. SOLID YELLOW CL. REPLACE WHERE DAMAGED AT A MINIMUM OR TO THE EXTENTS DELINEATED HEREIN.
2. BIKE LANE LIMITS PER DETAILS 39/39A CALTRANS STD PLAN A20D, "BIKE LANE ARROW" PER CALTRANS STD PLAN A24A, "BIKE LANE SYMBOL WITH PERSON" PER CALTRANS STD PLAN A24C. REPLACE WHERE DAMAGED AT A MINIMUM OR TO THE EXTENTS DELINEATED HEREIN.
3. CL PER DET 22 CALTRANS STD PLAN A20A. REPLACE WHERE DAMAGED AT A MINIMUM OR TO THE EXTENTS DELINEATED HEREIN.
4. REPLACE MESSAGE "STOP" PER CALTRANS STD DETAIL A24D AND SOLID WHITE STOP LINE TO IT'S FULL EXTENT
5. REPLACE 20-LF CONCRETE VALLEY GUTTER PER CITY STD DET B-3.
6. REPLACE 40-LF SIDEWALK PER CITY STD DET B-5 AND CURB & GUTTER PER CITY STD DET B-1. MATCH EXISTING SIDEWALK WIDTH AND CURB & GUTTER STYLE. CONFORM TO EXISTING ELEVATIONS.

PAVEMENT REPLACEMENT & REHABILITATION KEY NOTES

| KEY NOTES | PVMT ZONE | STA TO STA | AREA (SF) | A.C. THICKNESS / TOT VOL. (CY) | A.B. THICKNESS | DWG OR DETAIL REFERENCE | BID ITEM / UNIT TYPE |
|-----------|-----------|------------------|-----------|--------------------------------|----------------|-------------------------|----------------------|
| 7 | 9 | 99+40 TO 100+35 | 1638 | 3" / 16.0 | 8" | DET 4 / 05-CD-10 | 61 / CY |
| | | | 612 | 1.5" / 3.0 | N/A | DET 4 / 05-CD-10 | 62 / CY |
| | | | 262 | 3" / 3.0 | 8" | DET 4 / 05-CD-10 | 63 / CY |
| 8 | 10 | 100+20 TO 121+25 | 27507 | 4" / 340.0 | 8" | DET 4 / 05-CD-10 | 61 / CY |
| | | | 7654 | 1.5" / 36.0 | N/A | DET 4 / 05-CD-10 | 62 / CY |
| | | | 3280 | 4" / 41.0 | 8" | DET 4 / 05-CD-10 | 63 / CY |



100 0 100 200 FEET
HORIZSCALE 1"=100'

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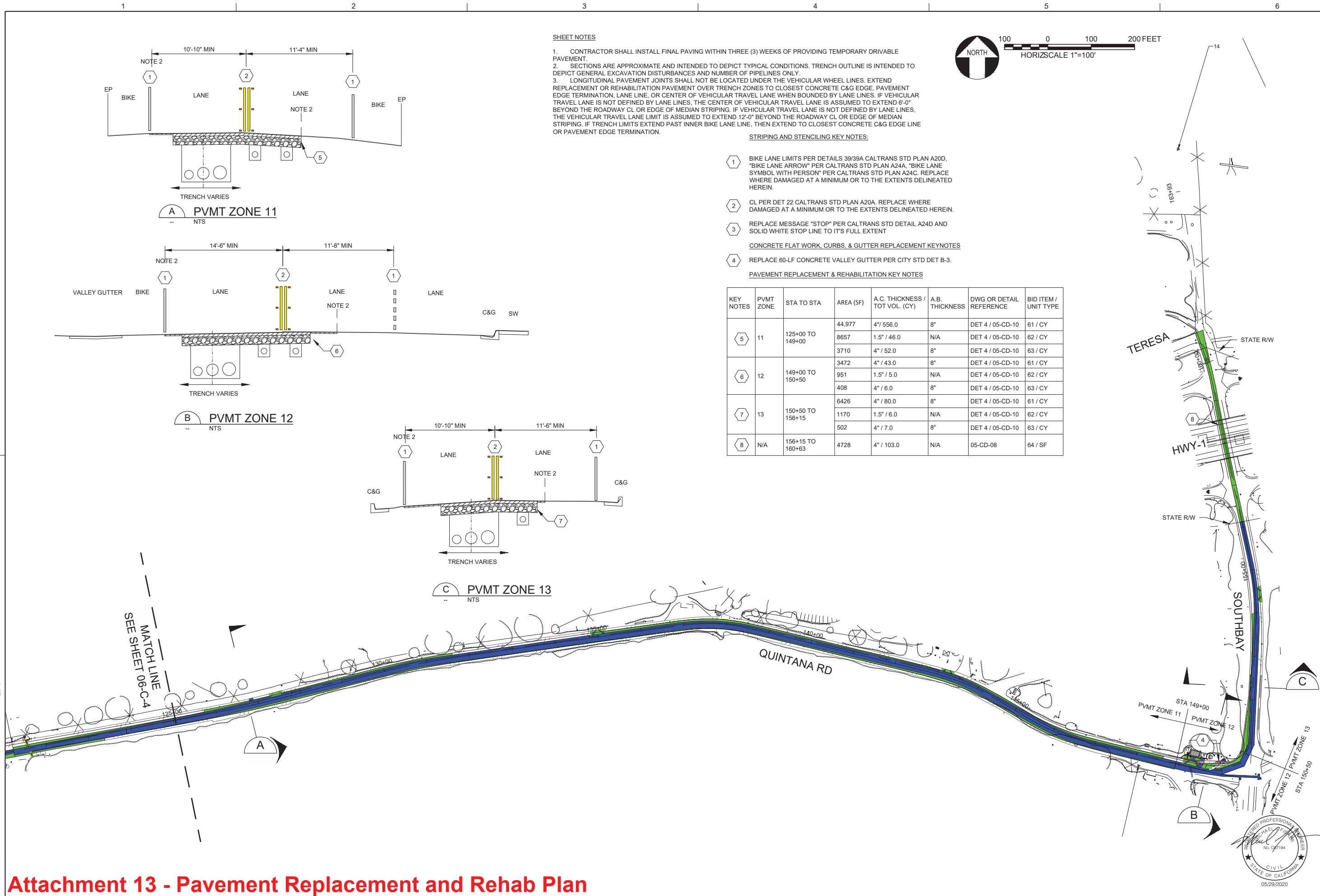
CITY OF MORRO BAY
WATER RECLAMATION FACILITY
LIFT STATION AND OFFSITE
PIPELINES

CIVIL
PAVEMENT REPLACEMENT AND
REHABILITATION PLAN
STA 97+50 TO STA 125+00



DATE
MAY 2020
PROJECT NUMBER
17-082
DRAWING NUMBER
06-C-4
SHEET NUMBER 111

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|--|--------------------|--------------------|----------------------|
| DESIGN P WEBSTER | DRAWN P WEBSTER | CHECKED T LEWIS | APPROVED M FISHER |
| WATERWORKS ENGINEERS 2290 Douglas Blvd, Suite 105 • Roseville, CA 95661 • 916-780-2888 | | | |
| CITY OF MORRO BAY WATER RECLAMATION FACILITY LIFT STATION AND OFFSITE PIPELINES | | | |
| CIVIL PAVEMENT REPLACEMENT AND REHABILITATION PLAN STA 125+00 TO END | | | |
| DATE MAY 2020 | | | |
| PROJECT NUMBER 17-082 | | | |
| DRAWING NUMBER 06-C-5 | | | |
| SHEET NUMBER 112 | | | |

