

**Meeting of the Central Valley Flood Protection Board  
July 26, 2019**

**Permit Staff Report**

**Wickland Pipelines LLC  
Pipeline Relocation, Yolo County**

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**1.0 – ITEM**

Consider approval of Permit No. 17497-1. (Attachment A)

**2.0 - APPLICANT**

Wickland Pipelines LLC (Wickland)

**3.0 – PROJECT LOCATION**

The project is located at/under the Sacramento Bypass about 3 miles north of the City of West Sacramento.

(Sacramento Bypass, Yolo County, Attachment B)

**4.0 – PROJECT DESCRIPTION**

The portion of an existing 12-inch diameter jet fuel pipeline that crosses beneath the Sacramento Bypass between STA 0+00 (just south of County Road 127) and STA 44+52 (approximately 0.4 miles north of County Road 126), will be placed at a deeper depth using the Horizontal Directional Drilling (HDD) method. Approximately 750 feet of the existing pipeline (between STA 35+00 and STA 42+00) that will be under the proposed new Lower Elkhorn Basin Levee Setback (LEBLS) Project will be removed, and the remainder of the existing pipeline will be abandoned in place by filling the entire pipe with grout as per Title 23 requirements (Attachment C).

## **5.0 – AUTHORITY OF THE BOARD**

California Water Code § 8534, 8590 – 8610.5, and 8700 – 8710  
California Code of Regulations, Title 23, Division 1 (Title 23):

- § 6, Need for a Permit
- § 13.3, Consent Calendar
- § 112, Streams Regulated and Nonpermissible Work Periods
- § 123, Pipelines, Conduits, and Utility Lines
- § 124, Abandoned Pipelines and Conduits

## **6.0 - PROJECT ANALYSIS**

Wickland owns and operates a 12-inch diameter jet fuel pipeline that runs from West Sacramento in Yolo County to the Sacramento International Airport (SMF) in Sacramento County. A segment of the pipeline located near the north levee of the Sacramento Bypass is approximately 6 feet below ground. The limited depth of this segment of pipeline prevents inspection trench excavations that will be necessary for the construction of the California Department of Water Resources' (DWR) LEBLS Project that will widen the Yolo and Sacramento Bypasses. In addition, a scour analysis conducted by DWR for the LEBLS Project indicates that the existing pipeline is located within the scour zone of the Sacramento Bypass.

Wickland plans to replace approximately 4,450 feet of the pipeline under the Sacramento Bypass using the HDD method. The pipeline will be placed at a depth of approximately 62 feet below both the existing Sacramento Bypass South Levee and the proposed Sacramento Bypass North Levee (also known as the future Lower Elkhorn Basin Setback Levee). The HDD entry point is approximately 460 feet south of the Sacramento Bypass South Levee and the exit point is approximately 570 feet north of the future Sacramento Bypass North Levee. The future Lower Elkhorn Basin setback levee will be located approximately 1,300 feet north of the existing Sacramento Bypass North Levee. Approximately 750 feet of the existing pipeline (between STA 35+00 and STA 42+00) that will be under the proposed new LEBLS Project will be removed, and the remainder of the existing pipeline will be abandoned in place. In addition to the pipeline replacement, a new automated block valve will be installed on the north side of the Sacramento River Bypass for isolation purposes. The LEBLS Project is scheduled to begin construction in 2019.

HDD is a steerable, trenchless method of installing underground pipes, in a shallow arc along a prescribed bore path by using a surface-launched drilling rig, with minimal impact on the surrounding area. The length and depth of the HDD were based on a geotechnical investigation that identified the best soil conditions for the pipeline. The process involves drilling progressively larger pilot and reaming holes from the two entry/exit points until the final hole diameter is reached. The holes are drilled at an angle so that total pipe depth at the center of the boring is well below the Sacramento River Bypass and future levee project work. The new pipeline will then be pulled from the northern exit point to the southern entry point, with the pipeline continuously fed into the hole from an approximate 0.85-mile long staging area adjacent to the northern exit point.

It is estimated that the project HDD component will generate approximately 291 cubic yards (cy) of excess drilling mud and cuttings and 600 barrels of excess drilling slurry. An approved transportation and disposal contractor will be engaged to collect the excess fluid in vacuum trucks and haul it to a licensed disposal facility such as Waste Management in McKittrick, California. Drill cuttings will be hauled in dump trucks or bins on Rocket Launcher trucks for transport to a disposal facility. The proposed project conforms with all applicable Title 23 standards.

### **6.1 – Hydraulic Analysis**

The proposed HDD replacement does not require a hydraulic analysis as the replaced pipe will be in underground.

### **6.2 – Geotechnical Analysis**

The proposed HDD replacement pipe will be driven to a depth of approximately 62 feet below both the existing Sacramento Bypass South Levee and the proposed Sacramento Bypass North Levee. The HDD entry point is approximately 460 feet south of the Sacramento Bypass South Levee and the exit point is approximately 570 feet north of the future Sacramento Bypass North Levee. The pipeline replacement will not require any excavations into the existing levee section or within the levee safety influence zone. LEBLS Project does not include a cutoff wall as a seepage remediation option, therefore, the pipe at 62 feet below ground will not cause any hindrance during construction of the future LEBLS Project. Therefore, a geotechnical analysis was not required for this pipe replacement.

## **7.0 – AGENCY COMMENTS AND ENDORSEMENTS**

The comments and endorsements associated with this project, from all pertinent agencies, are shown below:

- Reclamation Districts 785 and 537 endorsed the application on September 6, 2018, with conditions. All applicable conditions have been incorporated into the permit.
- DWR endorsed the application on September 6, 2018, without conditions.
- The U.S. Army Corps of Engineers (USACE) 33 U.S.C. 408 approval letter has not yet been received for this application. Staff anticipates receipt of a letter indicating that the USACE Sacramento District Engineer approves the request to alter the Federal flood risk reduction project, subject to conditions. Upon receipt of the letter, staff will review to ensure its conformity with the permit language and incorporate it into the permit as Exhibit A.

## **8.0 – CEQA ANALYSIS**

Board staff has prepared the following California Environmental Quality Act (CEQA) determination:

The Board, as a responsible agency under CEQA, has reviewed the Draft and Final Environmental Impact Reports (EIR) (SCH No. 2016092015, March 2019), Addendum No. 1 (April 2019) to the EIR, and the Mitigation Monitoring and Reporting Program (MMRP) for the LEBLS Project, prepared by the lead agency, DWR. DWR's LEBLS Project is covered by the Draft and Final EIR, and Wickland Pipelines LLC's jet fuel pipeline relocation necessary to construct the LEBLS Project is covered by Addendum No. 1 to the EIR. These documents, including project design, are available for review in hard copy at the Board and DWR's offices.

DWR determined that the LEBLS Project, as described in the EIR and Addendum No. 1 to the EIR, will have a significant effect on the environment, and filed a Notice of Determination with the State Clearinghouse on March 15, 2019. DWR incorporated mandatory mitigation measures into the project plans to avoid or mitigate impacts. These mitigation measures, included in DWR's Final EIR and MMRP, address impacts to aesthetics; air quality; biological resources (fish and aquatic organisms, vegetation and wildlife, wetlands and other waters); cultural resources; geology, soils and paleontological resources; hazards and hazardous materials; land use and planning,

and agricultural and forestry resources; noise and vibration; recreation; traffic and transportation; utilities and service systems; and water quality. These mitigation measures are within the responsibility and jurisdiction of DWR and have been adopted by DWR. The Draft and Final EIR, and Addendum No. 1 to the EIR, found less than significant impacts under hydrology for flood related impacts resulting from the pipeline relocation.

The Board, as a responsible agency, is responsible for mitigating and avoiding only the direct and/or indirect environmental effects of those parts of the project which it decides to carry out, finance, or approve (CEQA Guidelines § 15096(g); Public Resources Code § 21002.1(d)). Here, the Board's action is limited to approving an encroachment permit for Wickland Pipeline LLC's pipeline relocation, and the Board's jurisdiction is limited to imposing conditions or mitigation related to maintaining the State Plan of Flood Control. The mitigation measures in the DWR's EIR and MMRP do not address issues over which the Board has jurisdiction.

In accordance with CEQA Guidelines § 15096, Board staff independently reviewed DWR's Draft and Final EIR, and Addendum No. 1 to the EIR, and finds these environmental documents prepared by the lead agency adequately address hydrology impacts, including potential flood risk, for the Board's approval of Permit No. 17497-1 to authorize Wickland Pipelines LLC's pipeline relocation which is within the Board's jurisdiction as it relates to maintenance of the State's flood control system.

The Board, as a responsible agency, is required to make findings for each significant effect of the project (CEQA Guidelines § 15096(h) and § 15091). However, the Draft and Final EIR, together with Addendum No. 1, identified less than significant impacts to flood risk, which is the only resource area within the Board's jurisdiction. The EIR and Addendum No. 1 conclusions related to flood risk are further supported by the Lower Elkhorn Basin Levee Setback Hydraulic Impact Analysis prepared by DWR (May 2017), which confirms the pipeline relocation will result in less than significant hydraulic impacts. The project will not adversely impact the State Plan of Flood Control. Based on staff's review of the EIR, Addendum No. 1 to the EIR, and the hydraulic analyses, there is no substantial evidence to support a fair argument that the project may result in significant impacts related to flood risk within the Board's jurisdiction.

According to the EIR and Addendum No. 1 to the EIR, the proposed pipeline relocation results in less than significant impacts related to flood risk, which is the only resource area within the Board's jurisdiction; therefore, the Board's approval of the encroachment permit does not require additional findings unrelated to flood risk under CEQA Guidelines § 15096(h), nor is the consideration of alternatives required. In accordance

with CEQA Guidelines § 15096(f) and (g), staff recommends that the Board make responsible agency findings that approval of Permit No. 17497-1 would not result in any significant adverse impacts related to flood risk, and no additional mitigation measures within the Board's jurisdiction are required.

The documents and other materials which constitute the record of the Board's proceedings in this matter are in the custody of the Executive Officer, Central Valley Flood Protection Board, 3310 El Camino Ave., Suite 170, Sacramento, California 95821.

### **9.0 – CA WATER CODE SECTION 8610.5 AND OTHER CONSIDERATIONS**

California Water Code, Section 8610.5 (c) provides that the Board shall consider all the following matters, if applicable:

1. Evidence that the Board admits into its record from any party, state or local public agency, or nongovernmental organization with expertise in flood or flood plain management:

Staff requests that the Board consider this staff report and its attachments or references and any evidence submitted to it prior to or during the hearing.

2. The best available science that relates to the scientific issues presented by the executive officer, legal counsel, the Department of Water Resources or other parties that raise credible scientific issues.

The proposed HDD replacement does not require a hydraulic impact analysis as the replaced pipe will be in underground. Staff finds that no credible scientific issues regarding hydrology or hydraulics exist.

3. Effects of the decision on the entire State Plan of Flood Control (SPFC).

The SPFC facilities near the proposed pipeline replacement project are the Sacramento River Bypass levees. The proposed HDD replacement pipe will be driven to a depth of approximately 62 feet below both the existing Sacramento Bypass South Levee and the proposed Sacramento Bypass North Levee. The HDD entry point is approximately 460 feet south of the Sacramento Bypass South Levee and the exit point is approximately 570 feet north of the future Sacramento Bypass North Levee. The pipeline replacement will not require any

excavations into the existing levee section or within the levee safety influence zone. LEBLS Project does not include a cutoff wall as a seepage remediation option, therefore, the pipe at 62 feet below ground will not cause any hindrance during construction of the future LEBLS Project. Therefore, the proposed project is not expected to result in adverse effect on any SPFC facilities and is consistent with the adopted 2017 Central Valley Flood Protection Plan Update's primary goal of improving flood risk management by ensuring encroachments comply with all current flood control standards and policies of the Central Valley Flood Protection Board.

4. Effects of reasonably projected future events, including, but not limited to, changes in hydrology, climate, and development within the applicable watershed:

Since the pipeline replacement project is 62 feet underground, there will be no effects on hydrology or hydraulics. The pipeline is not likely to be affected by seismic activity as there are no active faults at or close to the pipeline. For those reasons staff concludes that there will be no negative effects to the proposed project from reasonably projected future events.

## **10.0 – STAFF RECOMMENDATION**

Staff recommends that the Board:

### **Adopt:**

- CEQA finding: The Board, acting as a responsible agency under CEQA, has independently reviewed and considered the environmental documents prepared for the project. Approving Permit No. 17497-1 will not result in any significant adverse impacts related to flood risk and no additional mitigation measures within the Board's jurisdiction are required.

### **Approve:**

- Encroachment Permit No. 17497-1 in substantially the form provided in Attachment A; and

**Direct:**

- The Executive Officer to take the necessary actions to execute the permit and file a CEQA Notice of Determination with the State Clearinghouse.

**11.0 – LIST OF ATTACHMENTS**

- A. Draft Permit No. 17497-1
- B. Location Maps and Photos
- C. Project Drawings

**Reviewers:**

Design Review:	Deb Biswas, Engineer, Permitting Section
Environmental Review:	Itzia Rivera, Senior Environmental Scientist
Document Review:	Gary W. Lemon, P.E., Permitting Section Chief Michael C. Wright, P.E., Chief Engineer
Legal Review:	Sarah Backus, Staff Counsel



**DRAFT**

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
**THE CENTRAL VALLEY FLOOD PROTECTION BOARD**

**PERMIT NO. 17497-1 BD**

**This Permit is issued to:**

Wickland Pipelines LLC  
8950 Cal Center Drive  
Suite 125  
Sacramento, California 95826

To realign a portion of the Sacramento International Airport Jet Fuel Pipeline that crosses beneath the Sacramento Bypass. This pipeline was originally permitted under permit number 17497. The relocation is necessary to avoid conflicts with the Lower Elkhorn Basin Levee Setback Project.

The segment of the proposed pipe replacement is located under the Sacramento Bypass on a farmland, about 3 miles north of West Sacramento, at 38.59930°N 121.57840°W, Sacramento Bypass, Yolo County.

**NOTE:** Special Conditions have been incorporated herein which may place limitations on and/or require modification of your proposed project as described above.

**(SEAL)**

Dated: \_\_\_\_\_

\_\_\_\_\_  
Executive Officer

**GENERAL CONDITIONS:**

**ONE:** This permit is issued under the provisions of Sections 8700 – 8723 of the Water Code.

**TWO:** Only work described in the subject application is authorized hereby.

**THREE:** This permit does not grant a right to use or construct works on land owned by the Sacramento and San Joaquin Drainage District or on any other land.

**FOUR:** The approved work shall be accomplished under the direction and supervision of the State Department of Water Resources, and the permittee shall conform to all requirements of the Department and The Central Valley Flood Protection Board.

**FIVE:** Unless the work herein contemplated shall have been commenced within one year after issuance of this permit, the Board reserves the right to change any conditions in this permit as may be consistent with current flood control standards and policies of The Central Valley Flood Protection Board.

**SIX:** This permit shall remain in effect until revoked. In the event any conditions in this permit are not complied with, it may be revoked on 15 days' notice.

**SEVEN:** It is understood and agreed to by the permittee that the start of any work under this permit shall constitute an acceptance of the conditions in this permit and an agreement to perform work in accordance therewith.

**EIGHT:** This permit does not establish any precedent with respect to any other application received by The Central Valley Flood Protection Board.

**NINE:** The permittee shall, when required by law, secure the written order or consent from all other public agencies having jurisdiction.

**TEN:** The permittee is responsible for all personal liability and property damage which may arise out of failure on the permittee's part to perform the obligations under this permit. If any claim of liability is made against the State of California, or any departments thereof, the United States of America, a local district or other maintaining agencies and the officers, agents or employees thereof, the permittee shall defend and shall hold each of them harmless from each claim.

**ELEVEN:** The permittee shall exercise reasonable care to operate and maintain any work authorized herein to preclude injury to or damage to any works necessary to any plan of flood control adopted by the Board or the Legislature, or interfere with the successful execution, functioning or operation of any plan of flood control adopted by the Board or the Legislature.

**TWELVE:** Should any of the work not conform to the conditions of this permit, the permittee, upon order of The Central Valley Flood Protection Board, shall in the manner prescribed by the Board be responsible for the cost and expense to remove, alter, relocate, or reconstruct all or any part of the work herein approved.

#### **SPECIAL CONDITIONS FOR PERMIT NO. 17497-1 BD**

**THIRTEEN:** This permit is not valid until the permittee executes the enclosed Agreement Establishing a Covenant Running with the Land and has the permit, to include any attachments, recorded with the appropriate county. A copy of the recorded Covenant must be sent to the Central Valley Flood Protection Board prior to the commencement of work. Failure to do so may result in this permit being revoked.

#### **LIABILITY AND INDEMNIFICATION**

**FOURTEEN:** The permittee shall defend, indemnify, and hold harmless the Central Valley Flood Protection Board (Board) and the State of California, including its agencies or departments thereof, including but not limited to, any and all boards, commissions, officers, agents, employees, and representatives (Indemnities), against any and all claims, liabilities, charges, losses, expenses, and costs including the State's attorneys' fees (Liabilities), that may arise from, or by reason of: (1) any action or inaction by the Indemnities in connection with the issuance or denial of any permit, lease, or other entitlement; (2) as a result of approvals or authorizations given by the Board to the permittee pursuant to, or as a result of, permittee's permit application; (3) provisions of the issued permit or lease, provisions of CEQA, an environmental document certified or adopted by the Board related to the permit application, or any other regulations, requirements, or programs by the State, except for any such Liabilities caused solely by the gross negligence or intentional acts or the State or its officers, agents, and employees.

**FIFTEEN:** Permittee shall reimburse the Board in full for all reasonable costs and attorneys' fees, including, but not limited to, those charged to it by the California Office of Attorney General, that the Board incurs in connection with the defense of any action brought against the Board challenging this

permit or any other matter related to this permit or the work performed by the State in its issuance of this permit. In addition, the permittee shall reimburse the Board for any court costs and reasonable attorneys' fees that the Board/Indemnities may be required by a court to pay as a result of such action. The permittee may participate in the defense of the action, but its participation shall not relieve it of its obligations under the conditions of this permit.

SIXTEEN: The Board, Department of Water Resources, and Reclamation District Nos. 785 and 537 shall not be held liable for any damages to the permitted encroachment(s) resulting from releases of water from reservoirs, flood fight, operation, maintenance, inspection, or emergency repair.

## **AGENCY CONDITIONS**

SEVENTEEN: All work approved by this permit shall be in accordance with the submitted drawings and specifications dated March 22, 2019 except as modified by special permit conditions herein. No further work, other than that approved by this permit, shall be done in the area without prior approval of the Board.

EIGHTEEN: Permittee shall pay to the Board, an inspection fee(s) to cover inspection cost(s), including staff and/or consultant time and expenses, for any inspections before, during, post-construction, and regularly thereafter as deemed necessary by the Board.

NINETEEN: In the event that levee or bank erosion injurious to the adopted plan of flood control occurs at or adjacent to the permitted encroachment(s), the permittee shall repair the eroded area and propose measures, to be approved by the Board, to prevent further erosion.

TWENTY: The permittee shall be responsible for the repair of any damages to the project levee, channel, banks, floodway, or other flood control facilities due to construction, operation, or maintenance of the proposed project.

TWENTY-ONE: The permittee shall comply with all conditions set forth in the letter from the Department of the Army (U.S. Army Corps of Engineers, Sacramento District) dated \_\_\_\_\_, which is attached to this permit as Exhibit A and is incorporated by reference.

TWENTY-TWO: The permittee agrees to notify any new property/encroachment owner(s) that they are required to submit a permit Name Change request form to the Board upon completion of the sale. The new owner(s) will be required to comply with all permit conditions. Name Change forms are available at <http://cvfpb.ca.gov/>

TWENTY-THREE: The Board reserves the right to add additional, or modify existing, conditions when there is a change in ownership and/or maintenance responsibility of the work authorized under this permit.

## **PRE-CONSTRUCTION**

TWENTY-FOUR: Upon receipt of a signed copy of the issued permit the permittee shall contact the Board by telephone at (916) 574-0609 to schedule a preconstruction conference with the inspector

that is assigned to your project. Failure to do so at least 10 working days prior to start of work may result in a delay of the project.

## **CONSTRUCTION**

TWENTY-FIVE: No construction work of any kind shall be done during the flood season from November 1 to April 15 without prior approval of the Board. Failure to submit a Time Variance Request to the Board at least 10 working days prior to November 1 may result in a delay of the project.

TWENTY-SIX: The existing right and left levee embankments crossing the borehole path shall be monitored by a licensed Professional Engineer or Professional Geologist during the HDD pipeline installation for vertical and/or horizontal displacements at both the embankment crown and toes.

TWENTY-SEVEN: In the event ground deformation or hydraulic fracturing occurs, the permittee shall submit a Corrective Action Plan. If distress is observed during the Horizontal Directional Drilling operation, such as cracking, displacement, settlement, and/or sloughing, the foundation and levee must be repaired, and the lines and grades restored to the existing geometric configuration.

## **POST-CONSTRUCTION**

TWENTY-EIGHT: All debris generated by this project shall be properly disposed of outside the Sacramento River Bypass and off all Project Works.

TWENTY-NINE: The project area shall be restored to at least the condition that existed prior to commencement of work.

THIRTY: Upon completion of the project, the permittee shall submit as-constructed drawings to the Board.

## **OPERATIONS AND MAINTENANCE**

THIRTY-ONE: After each period of high water, debris that accumulates at the site shall be completely removed from the Sacramento River Bypass and off all Project Works.

THIRTY-TWO: The permittee shall maintain the permitted encroachment(s) and the Project Works within the utilized area in the manner required and as requested by the authorized representative of the Board, Department of Water Resources, Reclamation District Nos. 785 and 537, or any other agency responsible for maintenance and shall, at all times, allow officials from these agencies to access the levee, levee slope, and any adjacent areas as necessary for flood control.

THIRTY-THREE: The permitted encroachment(s) shall not interfere with the operation and maintenance of the flood control project. If the permitted encroachment(s) are determined by any agency responsible for operation or maintenance of the flood control project to interfere, the permittee shall be required, at permittee's cost and expense, to modify or remove the permitted

encroachment(s) within 30-days of being notified in writing by the Board. In the event of an emergency a shorter timeframe may be required. If the permittee does not comply, the Board, or a designated agency or company authorized by the Board, may modify or remove the encroachment(s) at the permittee's expense.

#### **PROJECT ABANDONMENT / CHANGE IN PLAN OF FLOOD CONTROL**

THIRTY-FOUR: If the project, or any portion thereof, is to be abandoned in the future, the permittee or successor shall abandon the project under direction of the Board at the permittee's or successor's cost and expense.

THIRTY-FIVE: The permittee may be required, at permittee's cost and expense, to remove, alter, relocate, or reconstruct all or any part of the permitted encroachment(s) if in the discretion of the Board the removal, alteration, relocation, or reconstruction is necessary as part of or in conjunction with any present or future flood control plan or project or if the project is not maintained or is damaged by any cause. The permittee shall remove the encroachment(s) within 30-days of being notified in writing by the Board. In the event of an emergency a shorter timeframe may be required. If the permittee does not comply the Board will remove the encroachment(s) at the permittee's expense.

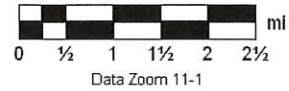
#### **END OF CONDITIONS**



No. 17497-1 - Attachment B - Location Map  
SMF Pipeline Route



Data use subject to license.  
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www.delorme.com

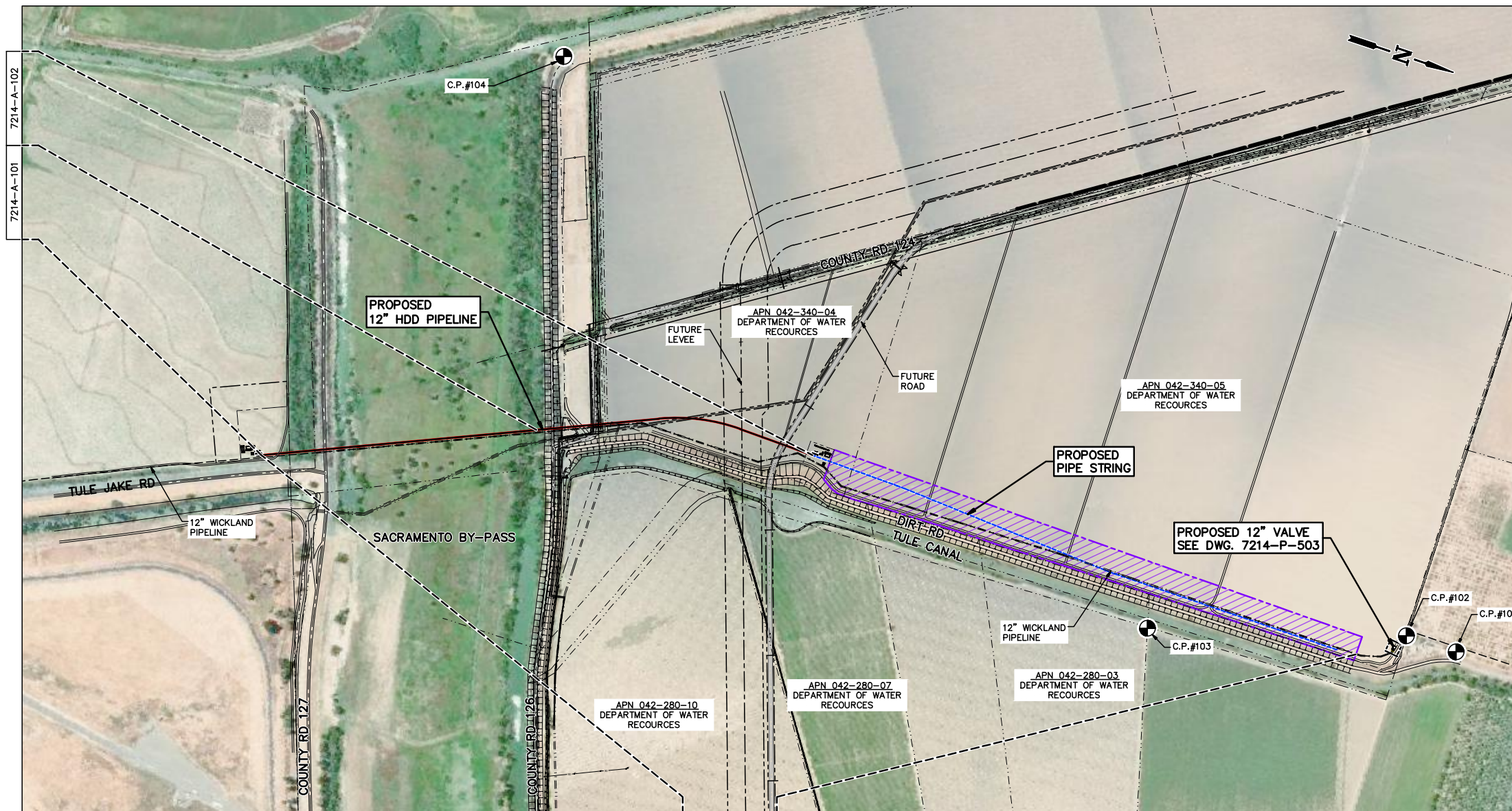




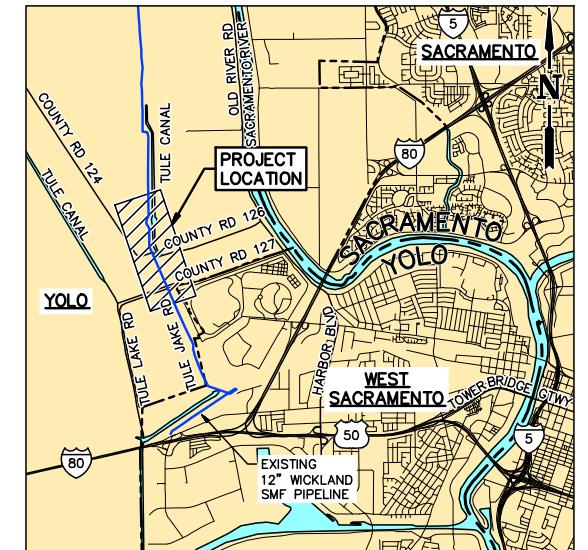


# WICKLAND PIPELINES LLC.

## YOLO COUNTY, CA SACRAMENTO BY-PASS SMF JET FUEL PIPELINE SEGMENT REPLACEMENT



**PLAN**  
SCALE: 1"=500'



**VICINITY MAP**  
N.T.S.

**LEGEND:**

- AREA OF WORK
- ⊕ BENCHMARK (B.M) SEE "SURVEY CONTROL SCHEDULE ON THIS DRAWING"

**SURVEY:**

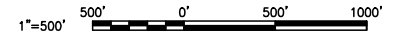
1. POINTS IDENTIFIED IN THE DRAWINGS ARE STATE PLANE IN U.S. SURVEY FEET, NAD83, CALIFORNIA ZONE-2, EPOCH 2010. VERTICAL DATUM ARE STATE PLAN IN U.S. SURVEY FEET, NAVD88, GEOID 12B.

SURVEY CONTROL SCHEDULE				
ITEM	NAD 83 COORDINATES		ELEV.	REMARKS
	NORTHING	EASTING		
C.P. # 101	1988647.501	6680998.290	UNKN.	2.5" BUTTONHEAD
C.P. # 102	1988231.097	6681002.050	UNKN.	2.5" BUTTONHEAD
C.P. # 103	1986253.769	6681596.732	UNKN.	2.5" BRASS CAP
C.P. # 104	1980400.232	6678744.591	UNKN.	USACE BUTTONHEAD

**ISSUED FOR CONSTRUCTION**  
**MARCH 22, 2019**

**CONTRACTOR NOTICE**  
ALL UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY THE OWNER OR OTHERS AND THOSE SHOWN ON THE RECORDS EXAMINED ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES SHOWN AND ANY OTHER UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR AND SUBCONTRACTORS PERFORMING SUBSURFACE EXCAVATIONS SHALL COMPLY WITH ALL REQUIREMENTS OF CALIFORNIA GOVERNMENT CODE SECTIONS 4216.9 PERTAINING TO AN "EXCAVATOR." COMPLIANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, TIMELY NOTIFICATION OF THE APPLICABLE REGIONAL NOTIFICATION CENTER AND CONDUCTING ON-SITE MEETINGS WITH ANY OWNER OF A HIGH PRIORITY SUBSURFACE INSTALLATION.

- LEGEND:**
- PROPOSED HDD ALIGNMENT
  - PROPOSED PIPE STRING
  - ⊕ BENCHMARK (SEE SURVEY CONTROL SCHEDULE IN THIS DRAWING)
  - /// WICKLAND PIPELINE (TO BE ABANDONED IN PLACE)
  - /// WICKLAND PIPELINE (TO BE REMOVED)
  - /// PROPOSED PIPE STRING STAGING AREA



THIS DRAWING OR TRACING IS THE PROPERTY OF WICKLAND OIL MARTINEZ AND MUST BE RETURNED UPON REQUEST. REPRODUCTIONS HEREOF OR TRANSMISSIONS OF THE INFORMATION HEREON MAY NOT BE MADE WITHOUT WRITTEN CONSENT. ALL PATENT RIGHTS ARE RESERVED.

REV.	DATE	BY	DESCRIPTION
0	03/22/19	NK	ISSUED FOR CONSTRUCTION

**W WICKLAND PIPELINES LLC.**  
3610 AMERICAN RIVER DRIVE, SACRAMENTO, CA.

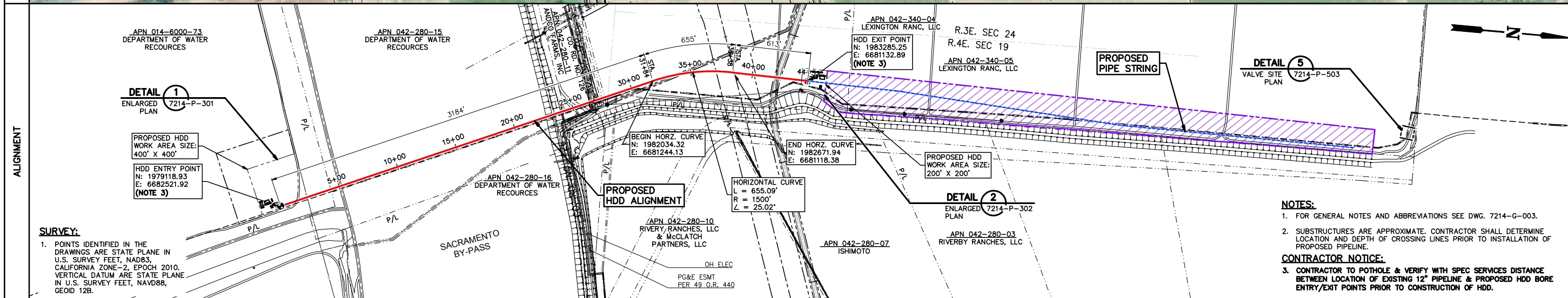
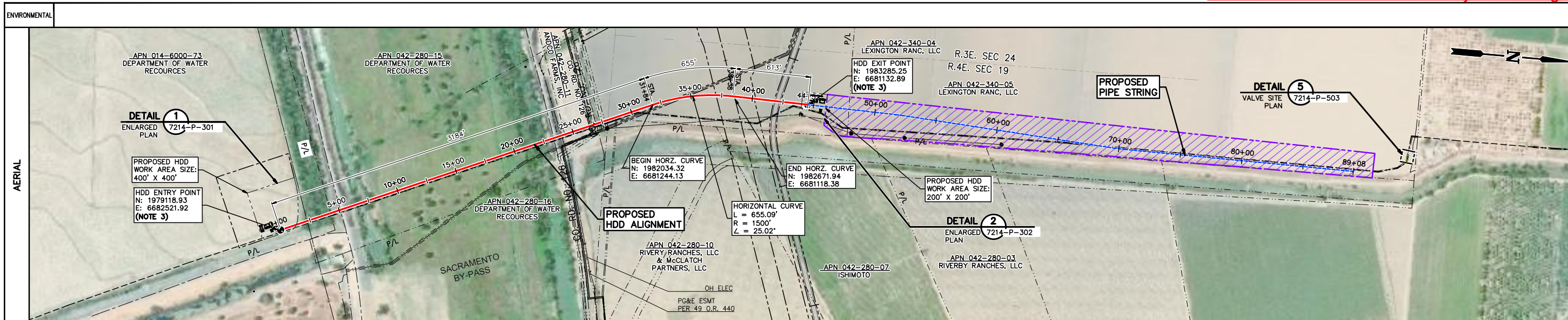
**YOLO COUNTY, CA**  
**SACRAMENTO BY-PASS**  
**SMF JET FUEL PIPELINE SEGMENT REPLACEMENT**

**TITLE SHEET**

7214-G-001

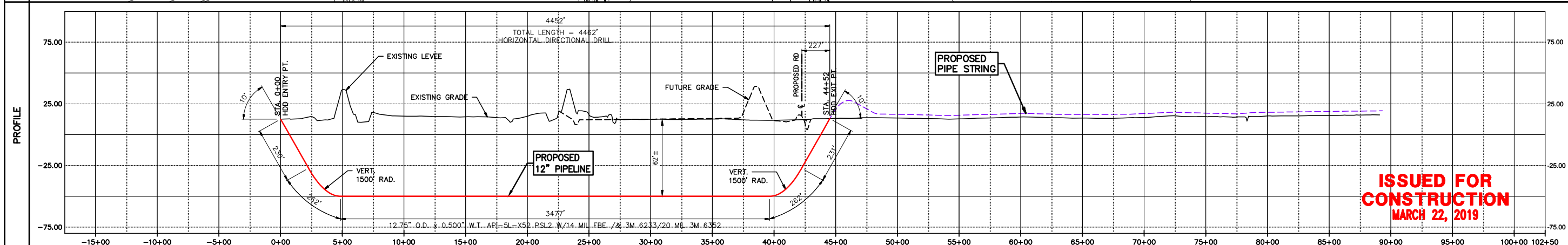
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**SURVEY:**  
 1. POINTS IDENTIFIED IN THE DRAWINGS ARE STATE PLANE IN U.S. SURVEY FEET, NAD83, CALIFORNIA ZONE-2, EPOCH 2010. VERTICAL DATUM ARE STATE PLANE IN U.S. SURVEY FEET, NAVD88, GEOID 12B.

- NOTES:**
- FOR GENERAL NOTES AND ABBREVIATIONS SEE DWG. 7214-G-003.
  - SUBSTRUCTURES ARE APPROXIMATE. CONTRACTOR SHALL DETERMINE LOCATION AND DEPTH OF CROSSING LINES PRIOR TO INSTALLATION OF PROPOSED PIPELINE.
- CONTRACTOR NOTICE:**
- CONTRACTOR TO POTHOLE & VERIFY WITH SPEC SERVICES DISTANCE BETWEEN LOCATION OF EXISTING 12" PIPELINE & PROPOSED HDD BORE ENTRY/EXIT POINTS PRIOR TO CONSTRUCTION OF HDD.



**ISSUED FOR CONSTRUCTION**  
 MARCH 22, 2019

PIPE R.O.W.	DATA
STA. 0+00	4.462' - 12.75" O.D. x 0.500" W.T. API-5L-X52 PSL2 W/14 MIL FBE /& 3M 6233/20 MIL 3M 6352
STA. 44+52	PROPOSED PIPE STRING
STA. 89+08	

**CONTRACTOR NOTICE**

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- LEGEND:**
- PROPOSED HDD ALIGNMENT
  - PROPOSED PIPE STRING
  - HDD ENTRY/EXIT POINTS
  - WICKLAND PIPELINE (TO BE ABANDONED IN PLACE)
  - WICKLAND PIPELINE (TO BE REMOVED)
  - PROPOSED PIPE STRING STAGING AREA
  - EXISTING GRADE
  - FUTURE GRADE

**811**  
 Know what's below.  
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0 REV.	03/22/19 DATE
NVK BY	ISSUED FOR CONSTRUCTION DESCRIPTION
REVISION	

**W WICKLAND PIPELINES LLC.**  
 3610 AMERICAN RIVER DRIVE, SACRAMENTO, CA.

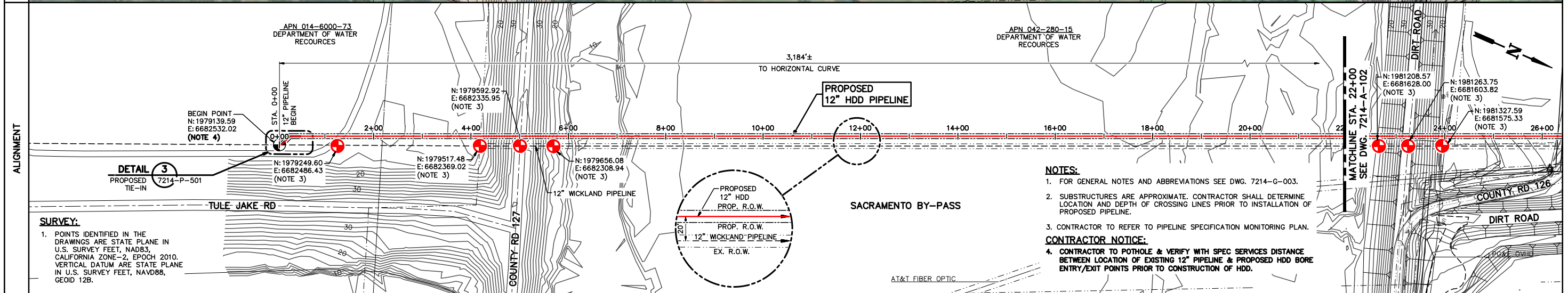
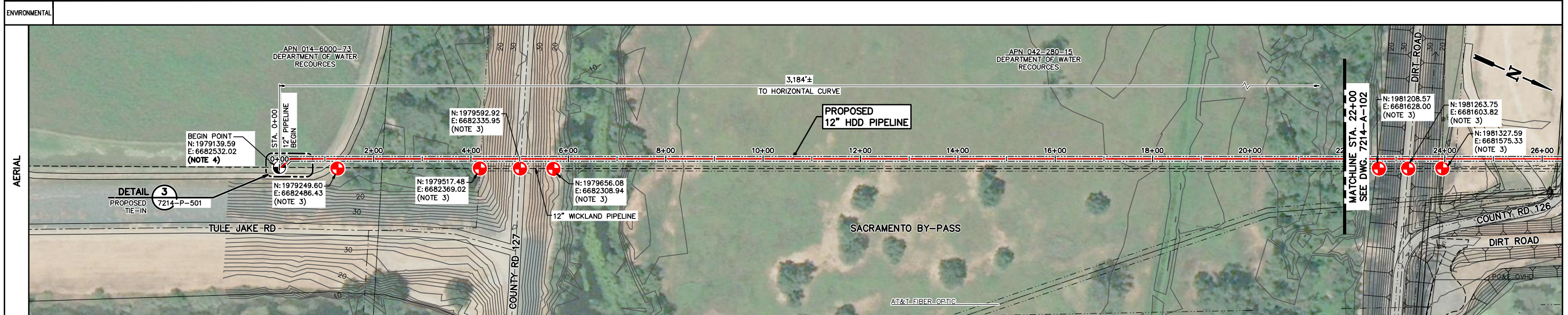
**YOLO COUNTY, CA**  
**SACRAMENTO BY-PASS**  
**SMF JET FUEL PIPELINE SEGMENT REPLACEMENT**

**OVERALL PROPOSED HDD ALIGNMENT**

DRAWN	DATE	CHECKED	APPROVED	SCALE	7214-A-100
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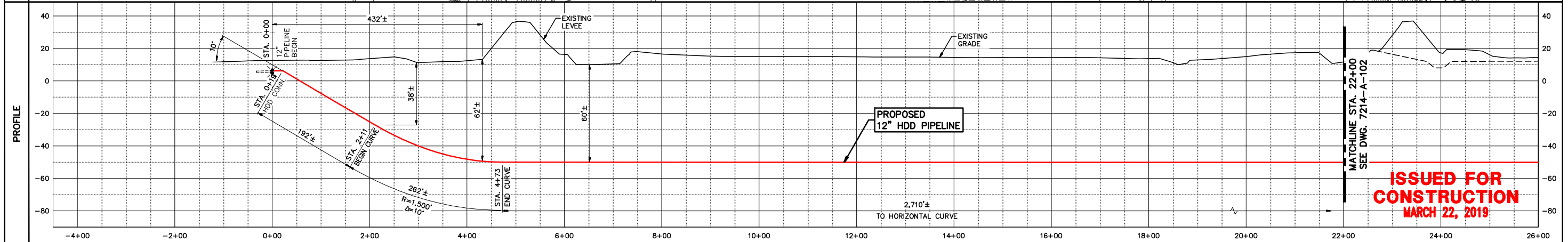




- NOTES:**
- FOR GENERAL NOTES AND ABBREVIATIONS SEE DWG. 7214-G-003.
  - SUBSTRUCTURES ARE APPROXIMATE. CONTRACTOR SHALL DETERMINE LOCATION AND DEPTH OF CROSSING LINES PRIOR TO INSTALLATION OF PROPOSED PIPELINE.
  - CONTRACTOR TO REFER TO PIPELINE SPECIFICATION MONITORING PLAN.
  - CONTRACTOR TO POTHOLE & VERIFY WITH SPEC SERVICES DISTANCE BETWEEN LOCATION OF EXISTING 12" PIPELINE & PROPOSED HDD BORE ENTRY/EXIT POINTS PRIOR TO CONSTRUCTION OF HDD.
- CONTRACTOR NOTICE:**

**SURVEY:**

- POINTS IDENTIFIED IN THE DRAWINGS ARE STATE PLANE IN U.S. SURVEY FEET, NAD83, CALIFORNIA ZONE-2, EPOCH 2010. VERTICAL DATUM ARE STATE PLANE IN U.S. SURVEY FEET, NAVD88, GEOID 12B.



**ISSUED FOR CONSTRUCTION**  
MARCH 22, 2019

PIPE R.O.W.	PIPE DATA
STA. 0+00	12" 45.86" BEND (MARK #2)
	12.75" O.D. x 0.500" W.T. API-5L-X52 PSL2 W/14 MIL FBE /& 3M 6233/20 MIL 3M 6352
	12" 45" BEND (MARK #1)
	STA. 22+00

**CONTRACTOR NOTICE**

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- LEGEND:**
- PROPOSED HDD ALIGNMENT
  - PROPOSED PIPE STRING
  - EXISTING WICKLAND PIPELINE
  - HDD ENTRY/EXIT POINTS
  - / / / / WICKLAND PIPELINE (TO BE ABANDONED IN PLACE)
  - / / / / WICKLAND PIPELINE (TO BE REMOVED)
  - PROPOSED PIPE STRING STAGING AREA
  - EXISTING GRADE
  - FUTURE GRADE
  - GROUND SURFACE MONITORING POINT (NOTE 3)

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10540 Tolbert Ave., Suite 100 East  
Fountain Valley, CA 92708  
(714) 963-8077  
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REV.	DATE	BY	DESCRIPTION
0	03/22/19	NTV	ISSUED FOR CONSTRUCTION
			DESCRIPTION

REVISION

**WICKLAND PIPELINES LLC.**  
3610 AMERICAN RIVER DRIVE, SACRAMENTO, CA.

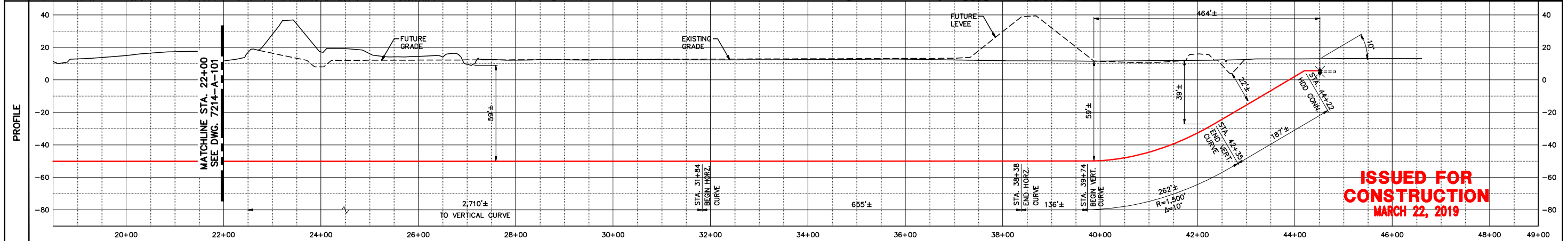
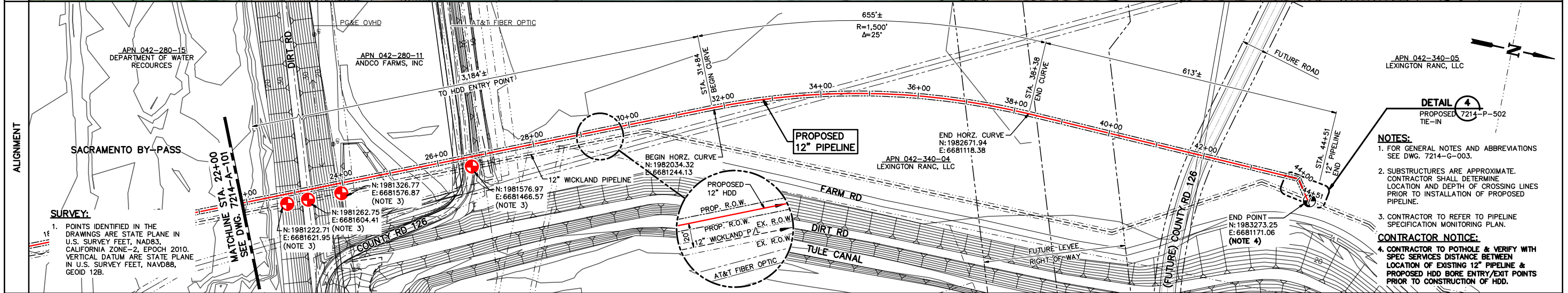
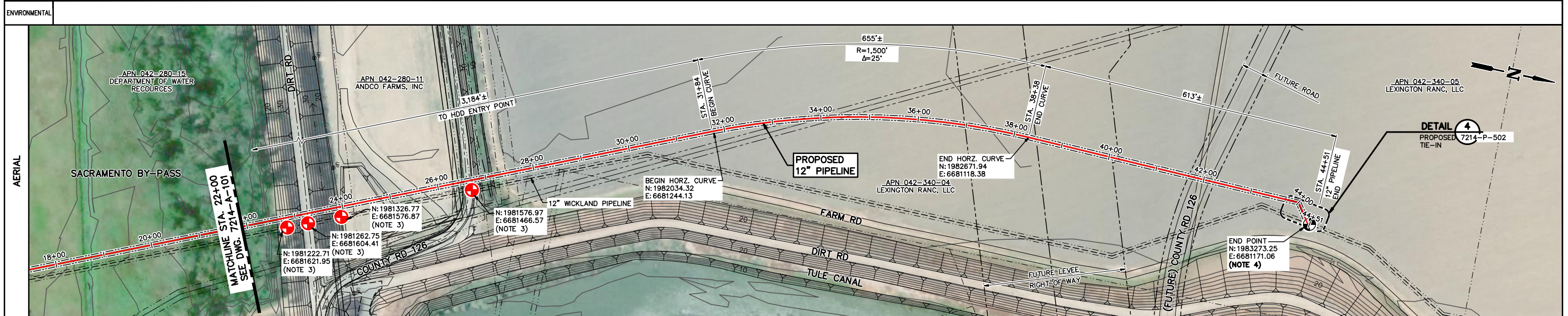
**YOLO COUNTY, CA**  
**SACRAMENTO BY-PASS**  
**SMF JET FUEL PIPELINE SEGMENT REPLACEMENT**

**ALIGNMENT SHEET**

DRAWN: DATE: CHECKED: APPROVED: SCALE: 7214-A-101

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PIPE DATA	PIPE R.O.W.
STA. 22+00	12.75" O.D. x 0.500" W.T. API-5L-X52 PSL2 W/14 MIL FBE /& 3M 6233/20 MIL 3M 6352
	12" 53" BEND (MARK #3)
	12" 45" BEND (MARK #4)
	STA. 44+52

**CONTRACTOR NOTICE**

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**LEGEND:**

- PROPOSED HDD ALIGNMENT
- PROPOSED PIPE STRING
- EXISTING WICKLAND PIPELINE
- HDD ENTRY/EXIT POINTS
- / / / WICKLAND PIPELINE (TO BE ABANDONED IN PLACE)
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- / / / PROPOSED PIPE STRING STAGING AREA
- EXISTING GRADE
- FUTURE GRADE
- GROUND SURFACE MONITORING POINT (NOTE 3)

**811**  
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**SCALE**

1" = 100'  
1" = 30'

REV.	DATE	BY	DESCRIPTION
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10540 Tolbert Ave., Suite 100 East  
Fountain Valley, CA 92708  
(714) 963-8077  
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**WICKLAND PIPELINES LLC.**  
3610 AMERICAN RIVER DRIVE, SACRAMENTO, CA.

**YOLO COUNTY, CA**  
**SACRAMENTO BY-PASS**  
**SMF JET FUEL PIPELINE SEGMENT REPLACEMENT**

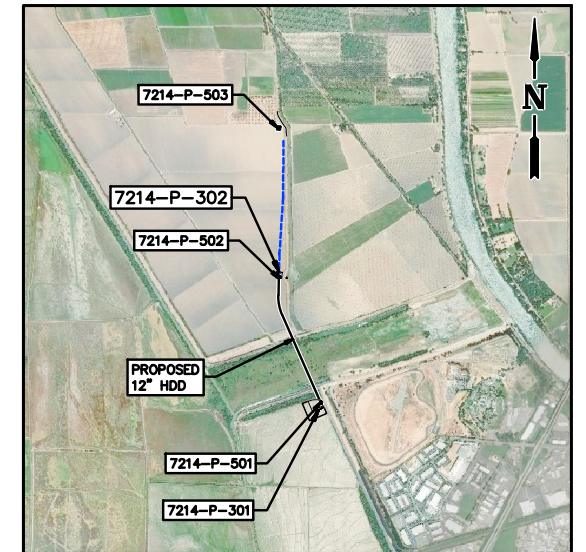
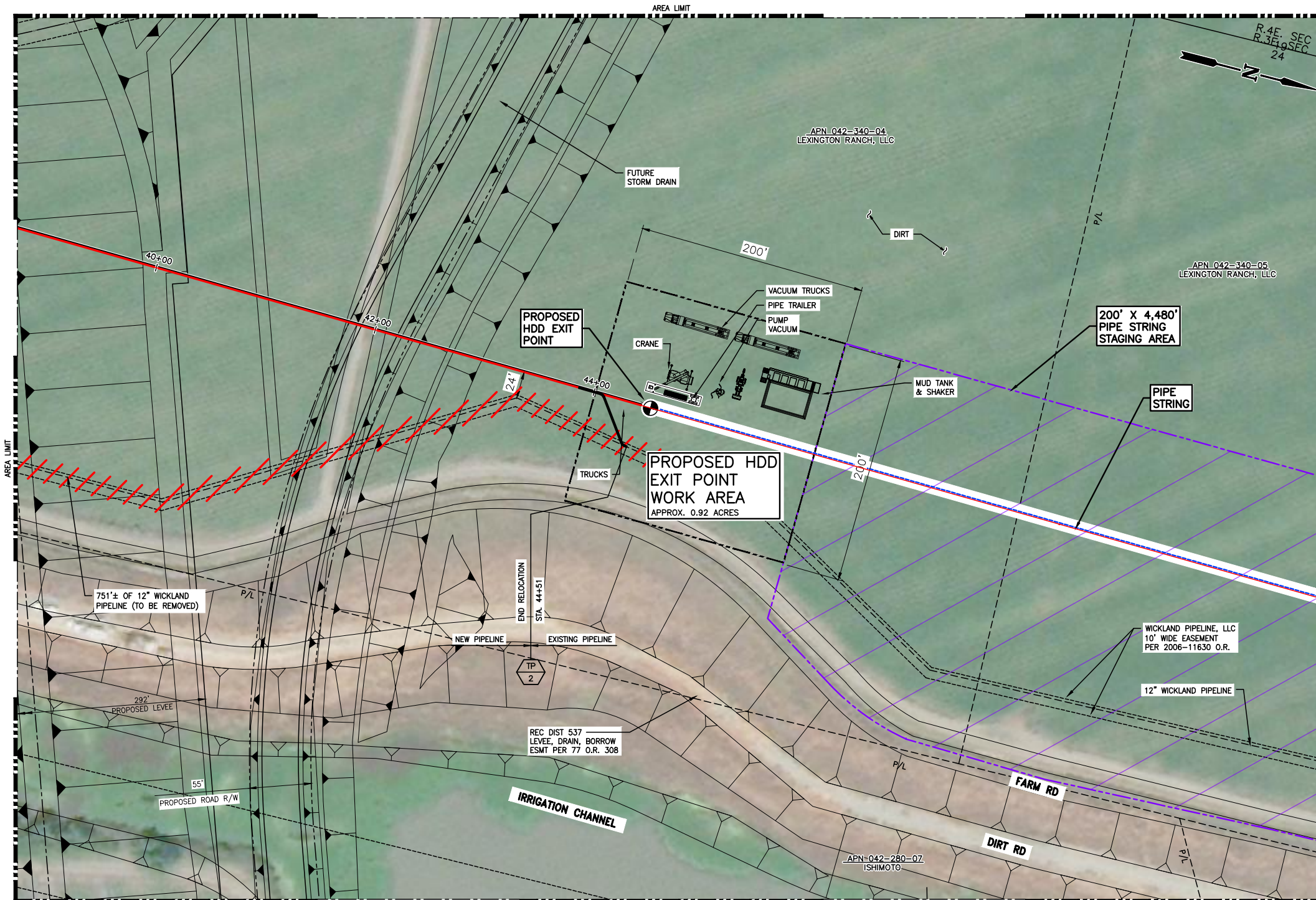
**ALIGNMENT SHEET**

7214-A-102

**ISSUED FOR CONSTRUCTION**  
MARCH 22, 2019

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VICINITY MAP  
N.T.S.

- NOTES:**
- FOR GENERAL NOTES AND ABBREVIATIONS SEE DWG. 7214-G-003.
  - FOR PIPE REMOVAL & ABANDONMENT, CONTRACTOR SHALL REFER TO WICKLAND PIPELINE ABANDONMENT PROCEDURES.

PLAN  
PROPOSED HDD EXIT POINT - WORK AREA  
DETAIL 2  
1"=50'

**ISSUED FOR CONSTRUCTION**  
MARCH 22, 2019

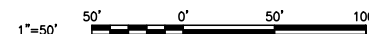
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  - PROPOSED PIPE STRING STAGING AREA
  - EXISTING GRADE
  - FUTURE GRADE



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(714) 963-8077

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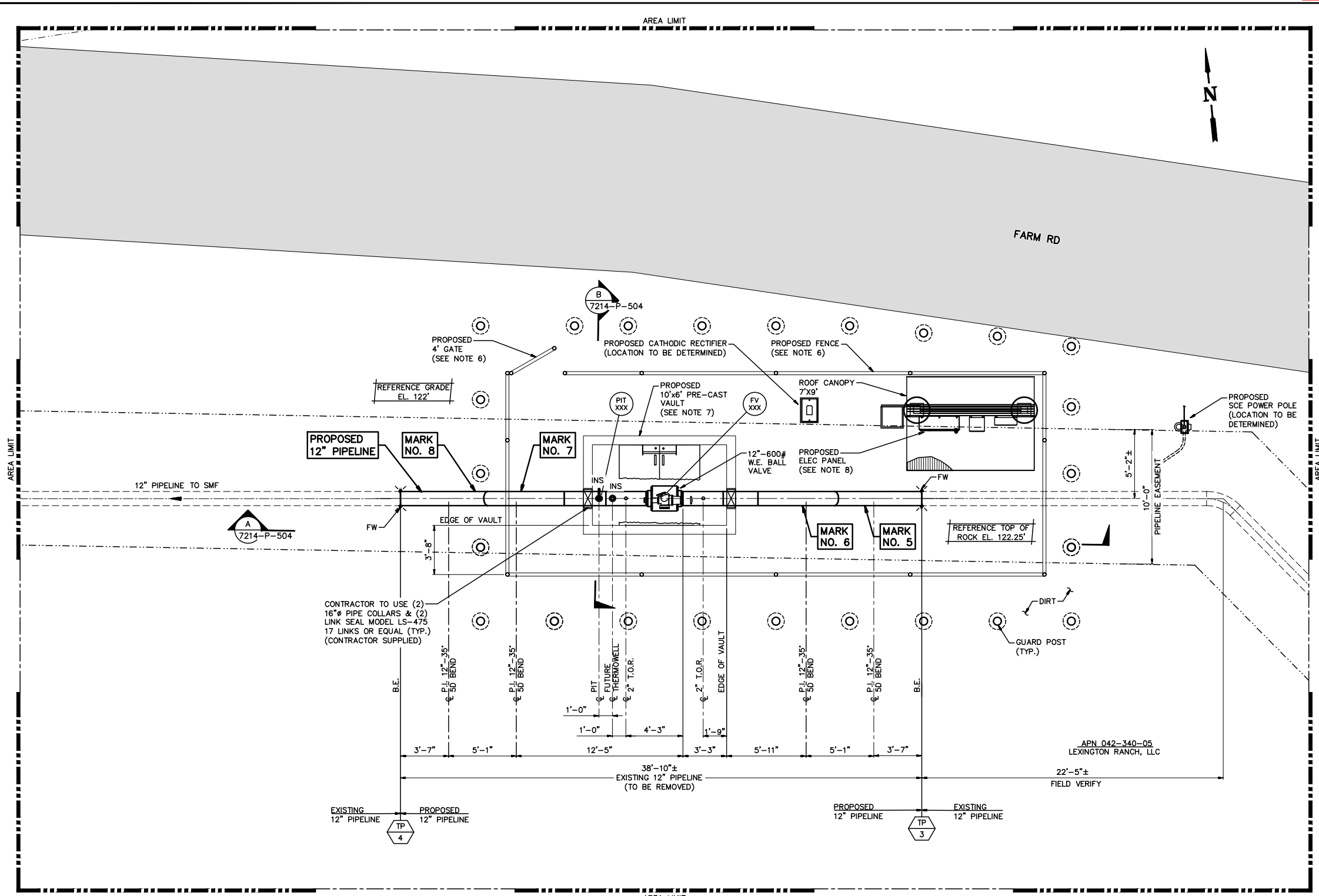
**W WICKLAND PIPELINES LLC.**  
3610 AMERICAN RIVER DRIVE, SACRAMENTO, CA.

**SACRAMENTO BY-PASS**  
SMF JET FUEL PIPELINE SEGMENT REPLACEMENT PROJECT  
SACRAMENTO, CA

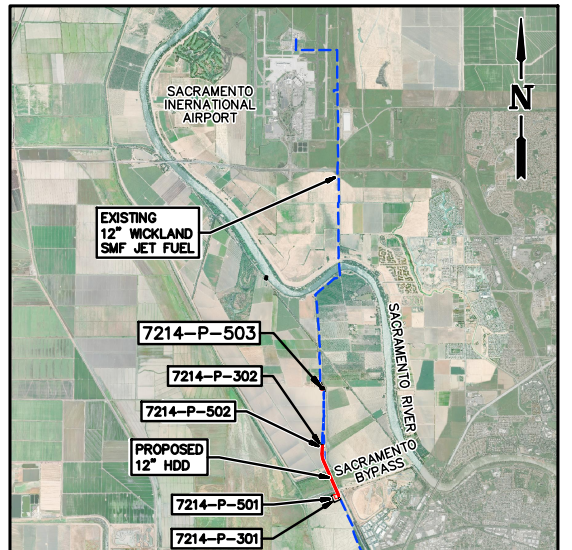
**PROPOSED HDD EXIT POINT - WORK AREA**

DRAWN	DATE	CHECKED	APPROVED	SCALE	PROJECT
SKA	03/14/18	FIS	-	1" = 100'	7214-P-302





**PROPOSED VALVE VAULT-NORTH SIDE OF BYPASS**  
**DETAIL 5**  
 1/4"=1'-0" 7214-A-100



**VICINITY MAP**  
 N.T.S.

- LEGEND:**
- EXISTING UNDERGROUND PIPE
  - EXISTING ABOVE GROUND PIPE
  - PROPOSED UNDERGROUND PIPE
  - PROPOSED ABOVE GROUND PIPE
  - EXISTING PIPELINE TO BE REMOVED

- NOTES:**
1. FOR GENERAL NOTES AND ABBREVIATIONS SEE DWG. 7214-G-003.
  2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF PROPOSED PIPELINE.
  3. CONTRACTOR SHALL REMOVE SHORT SECTION OF EXISTING PIPELINE AS REQUIRED FOR INSTALLATION OF PROPOSED PIPELINE.
  4. CONTRACTOR SHALL SLURRY FILL ABANDONED PIPELINE AS DIRECTED BY WICKLAND REPRESENTATIVE.
  5. CONTRACTOR SHALL INSTALL VAULT DOOR HATCH COVER WITH A 6" MINIMUM CLEARANCE FROM ACTUATOR.
  6. FOR PROPOSED FENCE AND GATE DETAILS SEE DWG. 7214-S-702.
  7. FOR PROPOSED VAULT DETAILS SEE DWG. 7214-C-603.
  8. FOR ELEC PANEL DETAILS SEE DWG. 7214-E-210.
  9. FOR PROPOSED BEND SCHEDULE SEE DWG. 7214-G-010.
  10. CONTRACTOR TO USE LINK SEALS OR EQUAL.
  11. FOR GUARD POST DETAILS SEE DWG. 7214-C-604.
  12. CONTRACTOR TO USE LINK SEALS (MODEL LS-475 17 LINKS) OR EQUAL.

**ISSUED FOR CONSTRUCTION**  
**MARCH 22, 2019**

**CONTRACTOR NOTICE**

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<b>SPC SERVICES</b>	SPEC Services, Inc. 10540 Tolbert Ave., Suite 100 East Fountain Valley, CA 92708 (714) 963-8077 S:\214\7214-P-503.dwg	0	03/22/19	NTV	ISSUED FOR CONSTRUCTION
REV.	DATE	BY	DESCRIPTION		

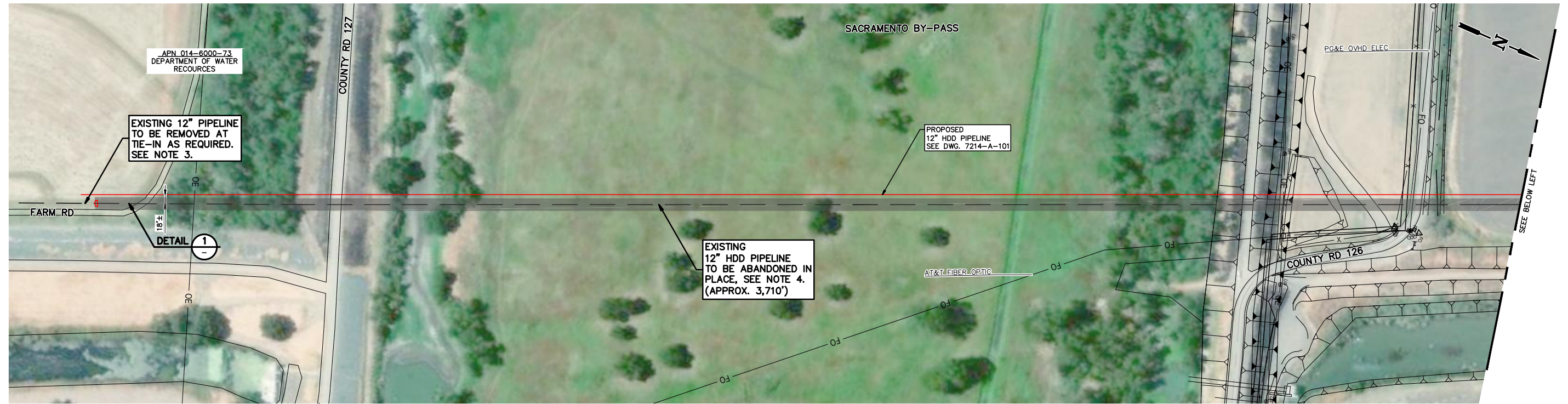
**W WICKLAND PIPELINES LLC.**  
 3610 AMERICAN RIVER DRIVE, SACRAMENTO, CA.

**YOLO COUNTY, CA**  
**SACRAMENTO BY-PASS**  
**SMF JET FUEL PIPELINE SEGMENT REPLACEMENT**

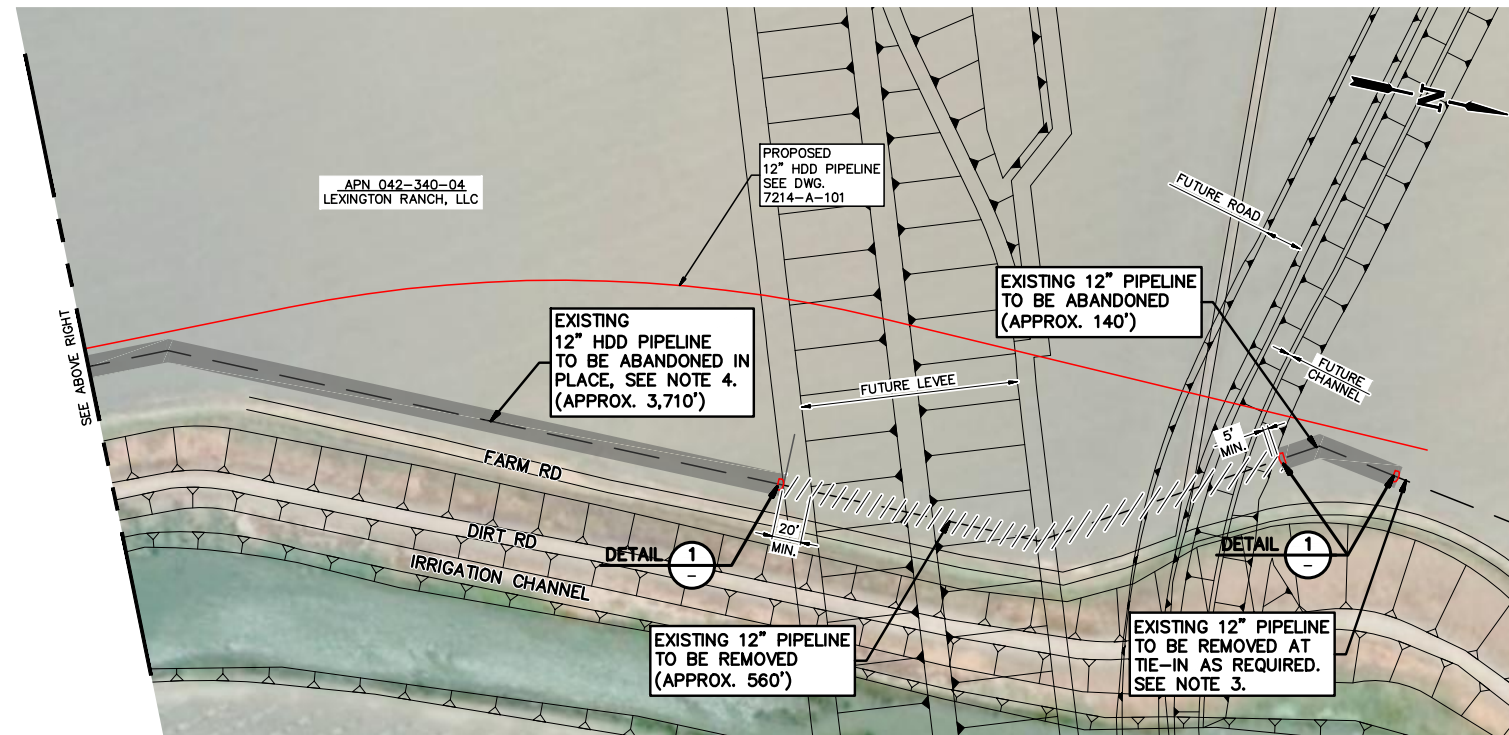
<b>VALVE SITE - PLAN</b>					7214-P-503
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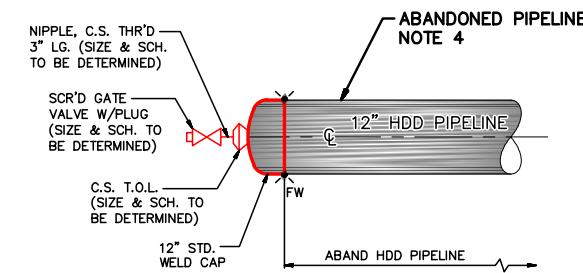
PLAN  
1"=100'



PLAN  
1"=100'

**NOTES:**

1. FOR GENERAL NOTES AND ABBREVIATIONS SEE DWG. 7214-G-003.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF PROPOSED PIPELINE.
3. CONTRACTOR SHALL REMOVE SHORT SECTION OF EXISTING PIPELINE AS REQUIRED FOR INSTALLATION OF PROPOSED PIPELINE.
4. FOR PIPE REMOVAL & ABANDONMENT, CONTRACTOR SHALL REFER TO WICKLAND PIPELINE ABANDONMENT PROCEDURES.



ELEVATION  
WELD CAP  
ABANDONED PIPELINE

DETAIL 1  
N.T.S.

**ISSUED FOR CONSTRUCTION**  
MARCH 22, 2019

**CONTRACTOR NOTICE**

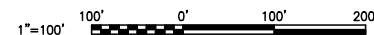
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**LEGEND:**

- = PROPOSED PIPELINE
- = EXISTING PIPELINE TO BE REMOVED
- = EXISTING PIPELINE TO BE ABANDONED



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Fountain Valley, CA 92708  
(714) 963-8077  
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REV.	DATE	BY	DESCRIPTION
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**W WICKLAND PIPELINES LLC.**  
3610 AMERICAN RIVER DRIVE, SACRAMENTO, CA.

**YOLO COUNTY, CA**  
**SACRAMENTO BY-PASS**  
**SMF JET FUEL PIPELINE SEGMENT REPLACEMENT**

**DEMO & ABANDONMENT PLAN**

DRAWN	DATE	CHECKED	APPROVED	SCALE	7214-D-801
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