

**Meeting of the Central Valley Flood Protection Board
May 26, 2011**

Staff Report – Encroachment Permit

**Farmington Water Company
Littlejohns Creek
(San Joaquin County)**

1.0 – ITEM

Consider approval of Permit No. 18646 (Attachment B) to install approximately 450 feet of 60inch PVC water pipeline below the streambed of Littlejohns Creek along Escalon-Bellota Road parallel to the existing bridge crossing.

2.0 – APPLICANT

Farmington Water Company

3.0 – LOCATION

The project is located on the west side of Escalon-Bellota Road at Littlejohns Creek in San Joaquin County.

4.0 – DESCRIPTION

Applicant proposes to install approximately 450 feet of 6-inch fused PVC C-900 waterline below the streambed of Littlejohns Creek. A 10-inch hole will be drilled via horizontal direction drilling (HDD) and the PVC waterline will be pulled into place. Construction will occur within the San Joaquin County right of way for Escalon-Bellota Road adjacent to the existing bridge.

5.0 – PROJECT ANALYSIS

No excavation or equipment placement is expected to be in or within 100 ft of the stream channel. The FEMA 100-year flood plain is at elevation 108 feet near the Littlejohns Creek Bridge on Escalon-Bellota Road and is contained within the creek channel. The bridge and roadway at Littlejohns Creek is approximately at elevation 113. Both the drill pit and exit pit locations are above the 100 year flood plain elevation of

108. The waterline will be installed with four feet of cover as is typical for the new Farmington water system.

5.1 – Hydraulic Analysis

No projections into the regulated stream or designated floodway will occur as a result of this project; therefore, a hydraulic analysis was not necessary for the proposed project.

5.2 – Geotechnical Analysis

No levees exist within this project site; therefore, a geotechnical analysis was not necessary for the proposed project.

6.0 – AGENCY COMMENTS AND ENDORSEMENTS

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

- San Joaquin County Flood Control and Water Conservation District endorsed the proposed project, with conditions, by letter dated February 22, 2011. The letter will be incorporated into the permit as Exhibit A.
- The U.S. Army Corps of Engineers 208.10 comment letter has not yet been received for this application. Upon receipt of a favorable letter and review by Board staff the letter will be incorporated into the permit as Exhibit B.

7.0 – CEQA ANALYSIS

Board staff has prepared the following CEQA Findings:

The Board, as a responsible agency under CEQA, has reviewed the Initial Study/Mitigated Negative Declaration (IS/MND, SCH No. 2009042031, June 2009) for the Water System Facilities Improvements Project, prepared by the lead agency, the Department of Public Health. These documents, including project design, may be viewed or downloaded from the Central Valley Flood Protection Board website at <http://www.cvfpb.ca.gov/meetings/2011/5-26-2011.cfm> under a link for this agenda item. The documents are also available for review in hard copy at the Board and Division of Drinking Water and Environmental Management offices.

The Department of Public Health has determined that the project would not have a significant effect on the environment and filed a Notice of Determination on May 3, 2010 with the State Clearinghouse. Board staff finds that although the proposed project could have a potentially significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. The project proponent has incorporated mandatory mitigation measures into the project plans to avoid identified impacts or to mitigate such impacts to a point where no significant impacts will occur. These mitigation measures are included in the project proponent's IS/MND (Appendix A) and address impacts to air quality, biological resources, cultural resources, and noise. The description of the mitigation measures are further described in the adopted IS/MND.

8.0 – SECTION 8610.5 CONSIDERATIONS

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:

The Board will make its decision based on the evidence in the permit application and attachments, this staff report, and any other evidence presented by any individual or group.

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

The accepted industry standards for the work proposed under this permit as regulated by Title 23 have been applied to the review of this permit.

3. Effects of the decision on the entire State Plan of Flood Control:

The proposed 6-inch diameter water transmission pipeline will be buried a minimum of 10 feet under all components of the flood control system. Therefore the project will have no effects on the State Plan of Flood Control.

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

The proposed 6-inch diameter waterline will be underground and so there will be no effects to the project from reasonable projected future events.

9.0 – STAFF RECOMMENDATION

Staff recommends that the Board adopt the CEQA findings, approve the permit conditioned upon receipt of a favorable U.S. Army Corps of Engineers comment letter, and direct staff to file a Notice of Determination with the State Clearinghouse.

10.0 – LIST OF ATTACHMENTS

- A. Location Maps and Photos
- B. Draft Permit No. 18646
- C. Design Drawing

Design Review:

Alison Tang, P.E.

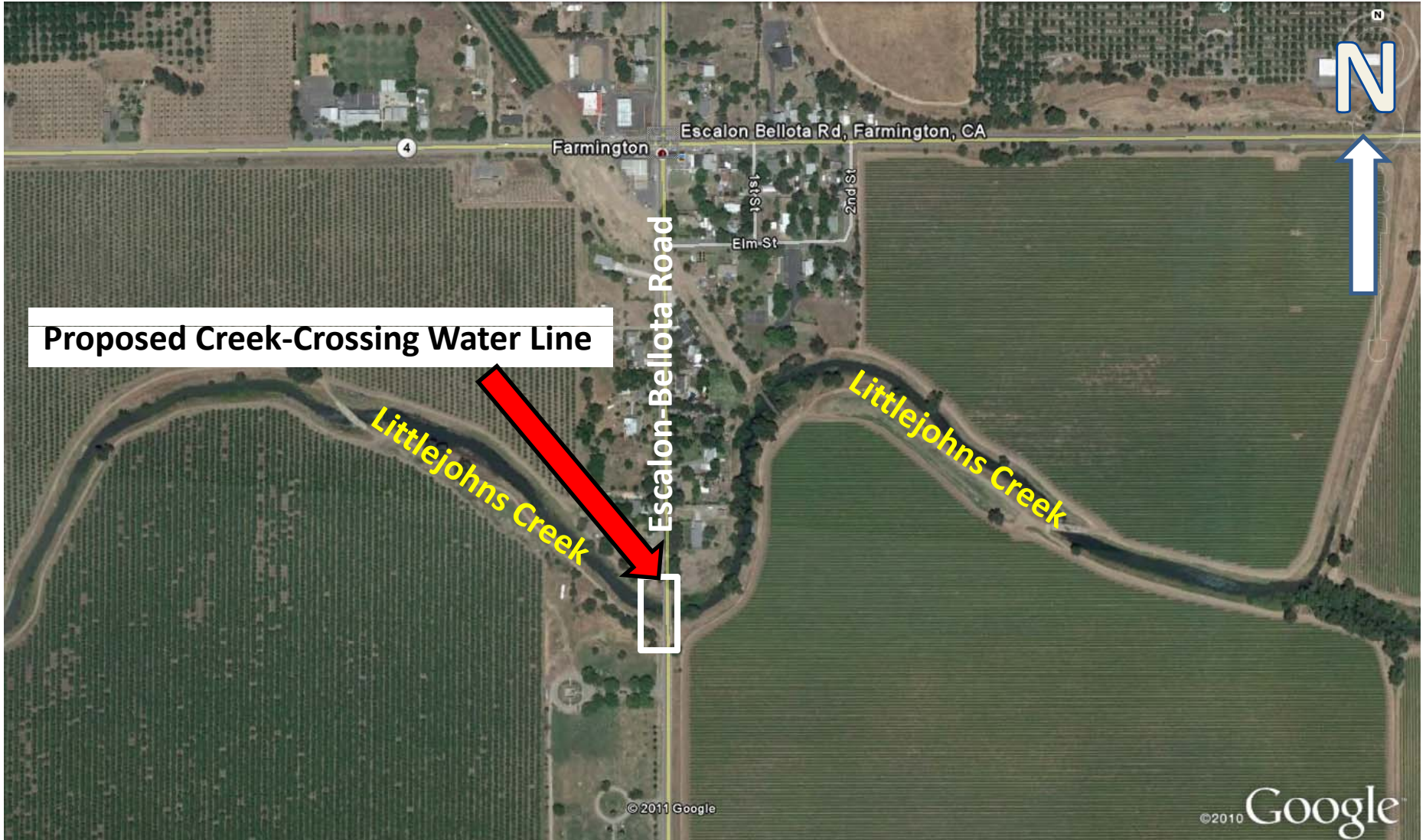
Environmental Review:

James Herota and Andrea Mauro

Document Review:

Curt Taras, P.E. MSCE, Mitra Emami, P.E., Len Marino, P.E.







PROPOSED WATERLINE ALIGNMENT
CROSSES 30-FT UNDER CREEK



PROPOSED WATERLINE ALIGNMENT
CROSSES 30-FT UNDER CREEK







PROPOSED WATERLINE ALIGNMENT

EXIT PIT

DRAFT

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

PERMIT NO. 18646 BD

This Permit is issued to:

Farmington Water Company
P.O. Box 77
Farmington, California 95230

To install approximately 450 feet of 6-inch fused PVC C-900 waterline below the streambed of Little Johns Creek. A 10-inch hole will be drilled via horizontal direction drilling (HDD) and the PVC waterline will be pulled into place. Construction will occur within the San Joaquin County right of way for Escalon-Bellota Road adjacent to the existing bridge. 4999 Escalon-Bellota Road and Little Johns Creek (Section 21, T1N, R9E, W, San Joaquin County Flood Control and Water Conservation District, Littlejohns Creek, San Joaquin 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. 18646 BD

THIRTEEN: All work approved by this permit shall be in accordance with the submitted drawings and specifications 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 Central Valley Flood Protection Board.

FOURTEEN: 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 Department of Water Resources or any other agency responsible for maintenance.

FIFTEEN: The permittee shall contact the Department of Water Resources by telephone, (916) 574-0609, and submit the enclosed postcard to schedule a preconstruction conference. Failure to do so at least 10 working days prior to start of work may result in delay of the project.

SIXTEEN: The permittee shall provide supervision and inspection services acceptable to the Central Valley Flood Protection Board. A professional engineer registered in the State of California shall certify that all work was inspected and performed in accordance with submitted drawings, specifications, and permit conditions.

SEVENTEEN: Upon completion of the project, the permittee shall submit as-built drawings to: Department of Water Resources, Flood Project Inspection Section, 3310 El Camino Avenue, Suite 256, Sacramento, California 95821.

EIGHTEEN: The Central Valley Flood Protection Board, Department of Water Resources, and the San Joaquin County Flood Control & Water Conservation District shall not be held liable for any damages to the permitted encroachment(s) resulting from flood fight, operation, maintenance, inspection, or emergency repair.

NINETEEN: 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 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 damaged by any cause. If the permittee does not comply, the Central Valley Flood Protection Board may remove the encroachment(s) at the permittee's expense.

TWENTY: The permittee should contact the U.S. Army Corps of Engineers, Sacramento District, Regulatory Branch, 1325 J Street, Sacramento, California 95814, telephone (916) 557-5250, as compliance with Section 10 of the Rivers and Harbors Act and/or Section 404 of the Clean Water Act may be required.

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

TWENTY-TWO: The permittee is responsible for all liability associated with construction, operation, and maintenance of the permitted facilities and shall defend, indemnify, and hold the Central Valley Flood Protection Board and the State of California; including its agencies, departments, boards, commissions, and their respective officers, agents, employees, successors and assigns (collectively, the "State"), safe and harmless, of and from all claims and damages arising from the project undertaken pursuant to this permit, all to the extent allowed by law. The State expressly reserves the right to supplement or take over its defense, in its sole discretion

TWENTY-THREE: 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 Central Valley Flood Protection Board and Department of Water Resources, at the permittee's or successor's cost and expense.

TWENTY-FOUR: No construction work of any kind shall be done during the flood season from November 1 to April 15 without prior approval of the Central Valley Flood Protection Board.

TWENTY-FIVE: The Central Valley Flood Protection Board, Department of Water Resources, and the San Joaquin County Flood Control & Water Conservation District shall not be held liable for damages to the permitted encroachment(s) resulting from releases of water from reservoirs, flood fight, operation, maintenance, inspection, or emergency repair.

TWENTY-SIX: A temporary bench mark, set to a known datum, shall be placed at the project site during construction.

TWENTY-SEVEN: The pipeline shall be tested and confirmed free of leaks by X-ray, pressure tests, or other approved methods during construction or anytime after construction upon request by the Central Valley Flood Protection Board.

TWENTY-EIGHT: The conduit shall be installed at least 10 feet below the channel streambed and the entire floodway of bypass.

TWENTY-NINE: The following grouting procedure shall be implemented at both ends of the pipeline: (a) grouting tubes shall be inserted as far as possible into the borehole after the pipe is pulled back,

and (b) the grout mixture shall be pumped into the annulus through these tubes until grout returns to the surface at the entry or exit of the pipeline. Grouting pressures must be carefully controlled and monitored to minimize the risks of hydrofracturing.

THIRTY: Excess bentonite or other drilling fluids shall be properly disposed of outside of the floodway. The bentonite or other drilling fluids shall not be used as backfill.

THIRTY-ONE: The permittee shall be responsible for all damages due to settlement, consolidation, or heave from any construction-induced activities.

THIRTY-TWO: Permanent, ferromagnetic, location markers shall be placed 10 feet from the landward toe of each levee unless there are permanent surface structures that adequately identify the pipeline's alignment.

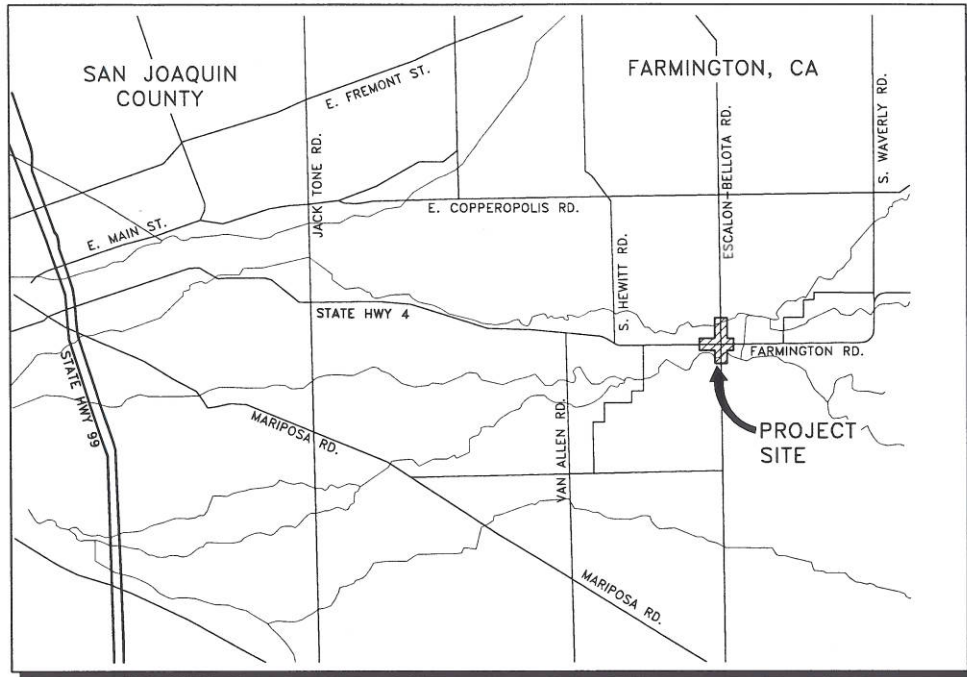
THIRTY-THREE: The mitigation measures approved by the CEQA lead agency and the permittee are found in its Mitigation and Monitoring Reporting Program (MMRP) adopted by the CEQA lead agency. The permittee shall implement all such mitigation measures.

THIRTY-FOUR: All debris generated by this project shall be disposed of outside the floodways.

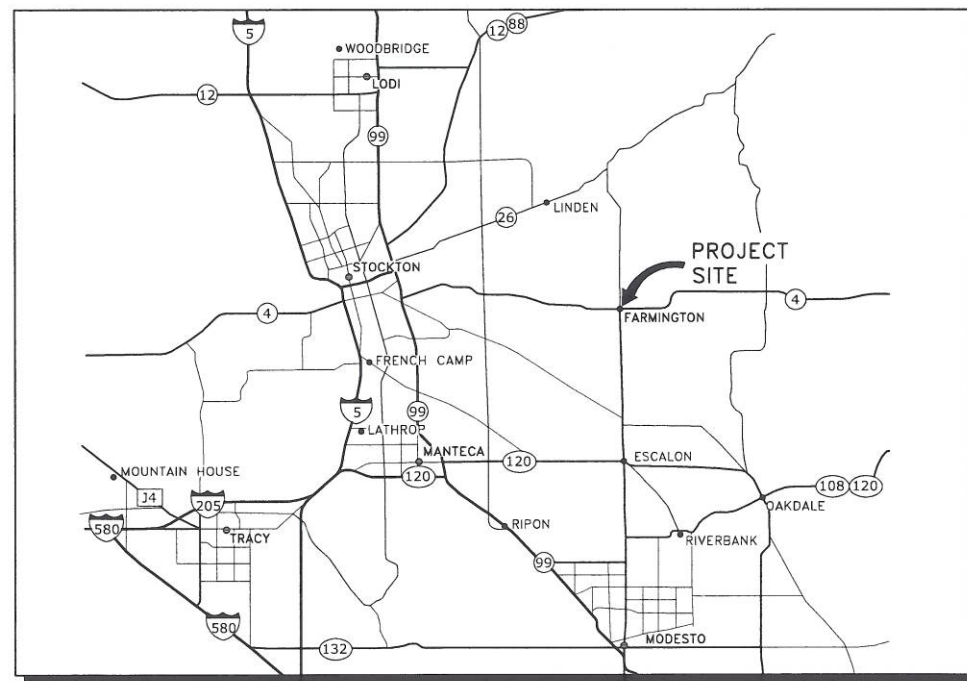
THIRTY-FIVE: The project sites shall be restored to at least the condition that existed prior to commencement of work.

THIRTY-SIX: The permittee shall comply with all conditions set forth in the letter from the letter from the San Joaquin County Flood Control & Water Conservation District dated February 22, 2011, which is attached to this permit as Exhibit A and is incorporated by reference.

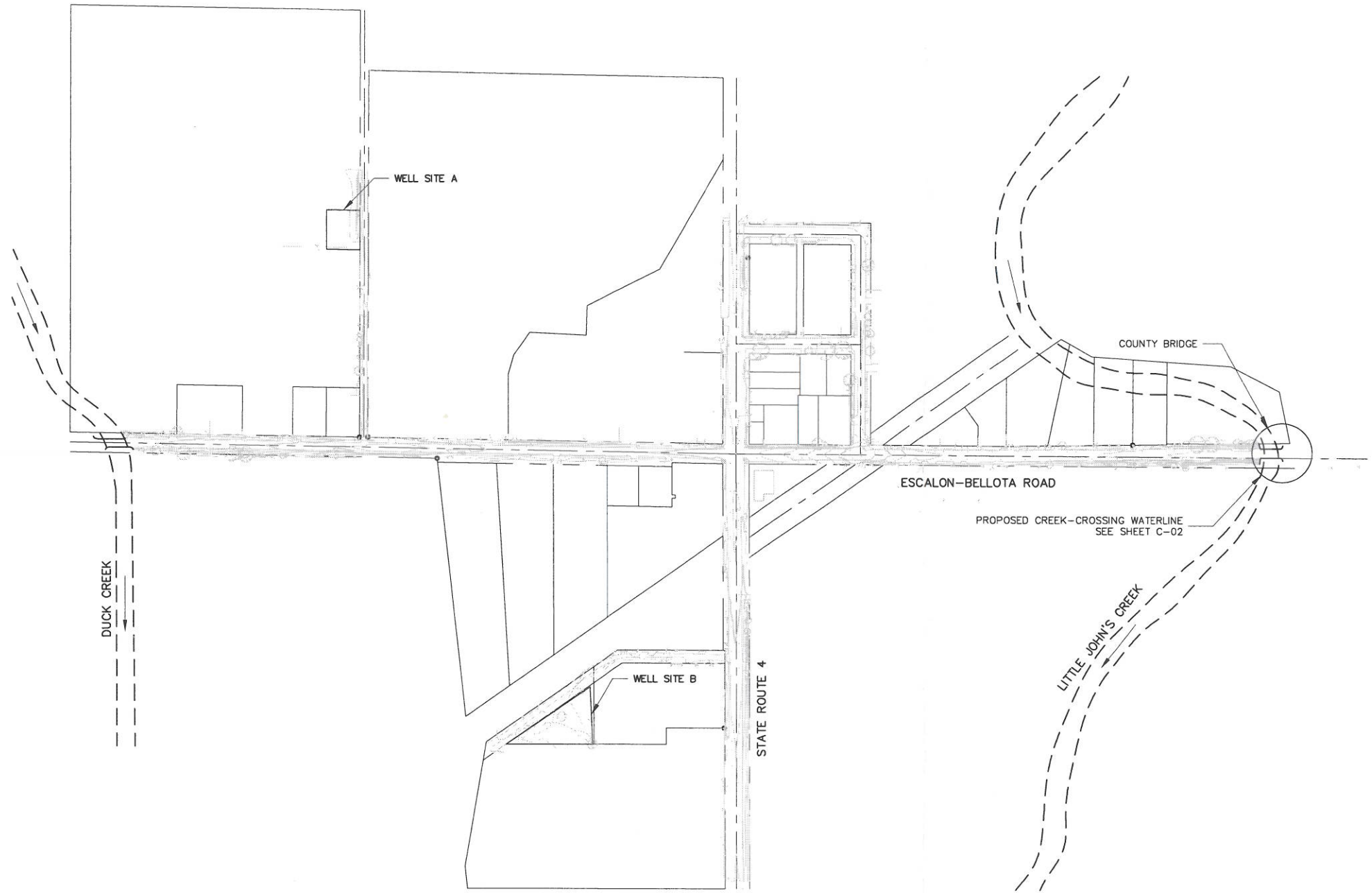
THIRTY-SEVEN: The permittee shall comply with all conditions set forth in the letter from the Department of the Army dated _____, which is attached to this permit as Exhibit B and is incorporated by reference.



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

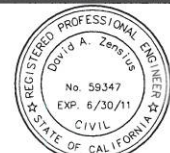
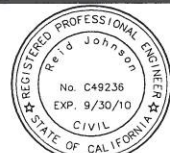


CAUTION: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by preparer of these plans.

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1215 WEST CENTER STREET, SUITE 201, MANTECA, CA 95337 (209) 239-9080

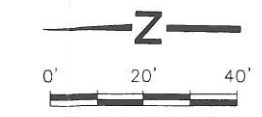
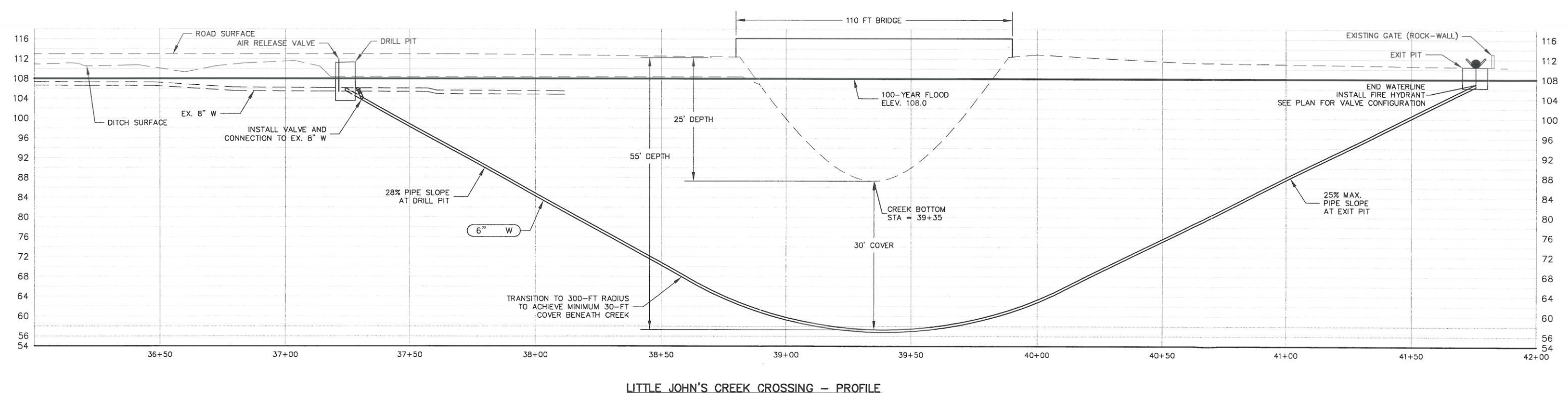
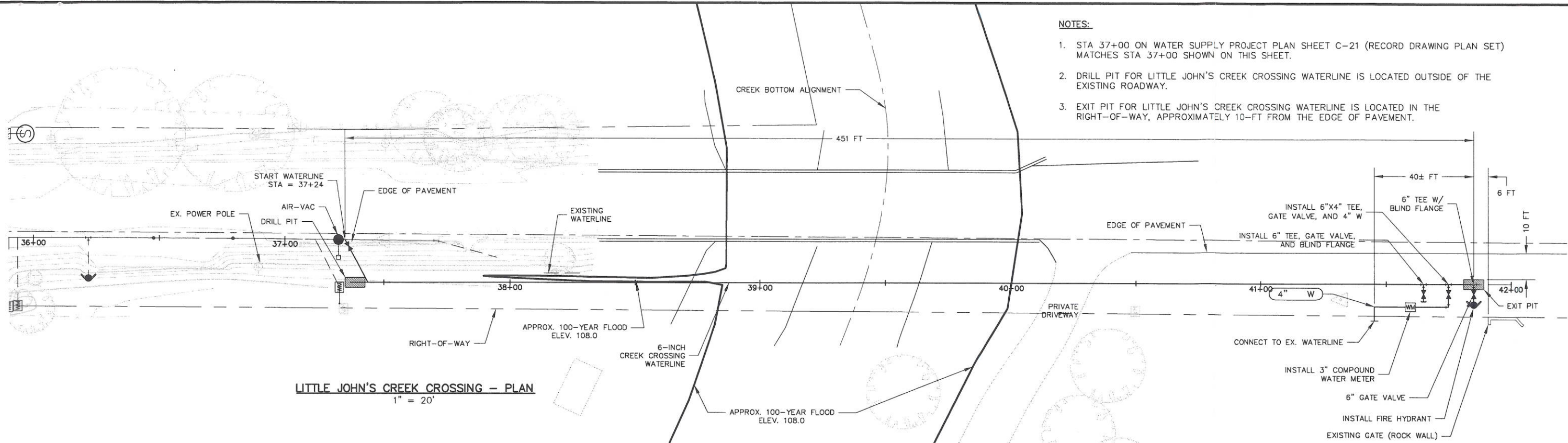


DATE: JANUARY 2011
PROJECT NO.: MTB014701
DRAWN BY: J. PETERSON
CHECKED BY: D. RICHARD
PROJ. MGR.: R. JOHNSON
PROJ. ENGR.: D. ZENSIUS

NO.	BY	DATE	REVISIONS

FARMINGTON WATER COMPANY
WATER SUPPLY PROJECT - CREEK CROSSING WATERLINES
CIVIL
LITTLE JOHN'S CREEK WATERLINE CROSSING
VICINITY AND LOCATION

SCALE
AS NOTED
DRAWING NUMBER
C01
SHEET NUMBER
1 OF 2 SHEETS

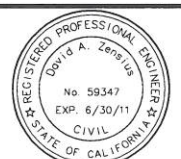
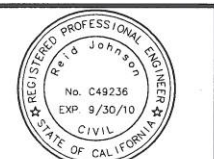


CAUTION: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by preparer of these plans.

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1215 WEST CENTER STREET, SUITE 201, MANTECA, CA 95337 (209) 239-9080



DATE: JANUARY 2011
 PROJECT NO.: MTB014701
 DRAWN BY: J. PETERSON
 CHECKED BY: D. RICHARD
 PROJ. MGR.: R. JOHNSON
 PROJ. ENGR.: D. ZENSIUS

NO.	BY	DATE	REVISIONS

FARMINGTON WATER COMPANY
 WATER SUPPLY PROJECT - CREEK CROSSING WATERLINES
 CIVIL
**LITTLE JOHN'S CREEK WATERLINE CROSSING
 PLAN AND PROFILE**

SCALE
 AS NOTED
 DRAWING NUMBER
C02
 SHEET NUMBER
 2 OF 2 SHEETS



SAN JOAQUIN COUNTY
**FLOOD CONTROL & WATER
CONSERVATION DISTRICT**

P. O. BOX 1810
1810 EAST HAZELTON AVENUE
STOCKTON, CALIFORNIA 95201
TELEPHONE (209) 468-3000
FAX NO. (209) 468-2999

PERMIT 18646
EXHIBIT A
THOMAS M. GAU
DIRECTOR OF PUBLIC WORKS/
FLOOD CONTROL ENGINEER
(INTERIM)

February 22, 2011

Central Valley Flood Protection Board
3310 El Camino Avenue
Sacramento, California 95821

Attention: Central Valley Flood Protection Board
Floodway Protection Section

**SUBJECT: CENTRAL VALLEY FLOOD PROTECTION BOARD PERMIT
APPLICATION OF FARMINGTON WATER COMPANY,
ASSESSOR'S PARCEL NOS. 187-110-16, AND 187-110-19,
BORING UNDER LITTLEJOHNS CREEK.**

Gentlemen:

Reference is made to the Central Valley Flood Protection Board Permit Application of Farmington Water Company to bore and pull a six-inch fused PVC waterline under Littlejohns Creek.

The project is located on the west side of Escalon-Bellota Road at Littlejohns Creek in San Joaquin County, in Section 20, Township 1 North, Range 9 East, Mount Diablo Base and Meridian, San Joaquin County Assessor's Parcel Nos. 187-110-16 and 187-110-19.

The San Joaquin County Flood Control and Water Conservation District (District) has reviewed the Central Valley Flood Protection Board Permit Application of Farmington Water Company and endorses the project subject to the following conditions:

1. The District shall not be responsible for the maintenance of the facilities specified in this Permit.
2. The District shall not be held liable for damage(s) to the Permitted encroachment(s) due to the District's operation, maintenance, flood fight, inspection, or emergency repairs.
3. The Permittee or successors-in-interest shall be responsible for the modification or possible removal of the facilities, as requested by the District, if required for any future flood control plans at the Applicant's sole cost and expense.
4. The Permittee shall be liable for any damage to Littlejohns Creek that may occur as a result of this project.
5. The project shall be constructed in accordance with the plans dated January 2011 submitted with the Application dated February 1, 2011. Any revisions to the project will require submittal of the revised plans to the District for review and approval.
6. No work shall be allowed in the Littlejohns Creek channel between November 1st and April 15th without prior approval of the Central Valley Flood Protection Board and the District.
7. The Permittee or successors-in-interest shall keep the encroachment(s) properly maintained in accordance with applicable current or future local, State, and Federal standards.
8. There shall be a minimum of ten feet of cover between the bottom of the channel and the waterline bore casing.
9. If the waterline is abandoned it shall be grouted. Prior to grouting, provide notice to the District for inspection of the grouting.



Central Valley Flood Protection Board
PERMIT APPLICATION OF
FARMINGTON WATER COMPANY

-2-

10. The Permittee shall restore Littlejohns Creek invert and banks to the condition that existed prior to commencement of work.
11. All valves or blow offs or any other appurtenances shall not be located within 50 feet of the top of either bank of Littlejohns Creek.
12. Backfill material, within the channel or within 50 feet of the top of bank, shall be placed in four (4) to six (6) inch layers with approved material and compacted to a minimum of 90 percent relative compaction as per ASTM D-1557. Compaction tests by a certified soils laboratory are required to verify compaction.
13. Upon completion of the project, the Permittee shall submit a hard copy and an electronic copy in AutoCAD and pdf format of the as-built drawings to:

San Joaquin County Flood Control
and Water Conservation District
1810 East Hazelton Avenue
Stockton, California 95205
14. The portal and outlet of a tunnel, jacking, or boring must be a minimum distance of 50 feet landward from the bank hinge point.
15. District approved visible markers shall be installed and maintained by the Permittee to identify the location of the buried conduits (see enclosure).
16. Should significant future damage to, abandonment or removal of, an existing encroachment covered by the Permit occur, it shall not be repaired or replaced without prior approval of the District. Any replacement shall be brought into conformance with applicable District standards and Permit requirements in effect at the time, including type and location.
17. In the event of a leak, the Permittee shall turn off the water pressure within two hours of being notified by the District, Central valley Flood Protection Board, or the California Department of Water Resources. Repair of the waterline shall commence within 24 hours of a repair request from the District, provided all Permits and clearances from appropriate agencies, including the Central Valley Flood Protection Board, are obtained. In the event permanent repairs cannot start within 24 hours, the Permittee shall develop and implement an interim plan to prevent damage to, and protect the integrity of, flood control facilities, in coordination with, and to the satisfaction of, the District and the Central Valley Flood Protection Board. Failure to commence repairs within 24 hours of the request, the District will have the repairs made at the expense of the applicant.

If there are any questions regarding these comments, please contact me at (209) 953-7617.

Sincerely,



JOHN I. MAGUIRE P.E.
Engineering Services Manager

JIM:RF:to
FM-11B032-T1

Enclosure

Utility Markers in Road Rights of Way

Markers in areas of the right of way that signs are not permitted according to San Joaquin County Improvement Standards R-23 and R-25 a Berntsen BMAC-5 or BMAC-6, or equivalent; with the utilities name, telephone number, and facility description on the outside ring shall be glued to a minimum of twelve inches (12") of the appropriate dimensioned PVC Pipe and concreted in place. The markers shall be located approximately twenty-five feet (25') from the bank hinge point in non-levied channels and twenty-five feet (25') from the land side toe of levee in levied channels in open ditch installations. Boring installations the markers shall be placed at the site of the boring and receiving pits.

Utility Markers in Road Rights of Way

Markers in areas of the right of way in which signs are permitted according to San Joaquin County Improvement Standards R-23 and R-25 and:

Steel posts shall conform to the standard specifications for cold rolled carbon sheet steel, commercial quality, ASTM A-446 or hot rolled carbon steel sheet, structural quality, ASTM A-570-90 and ASTM A-653-94 structural grade 50. Posts should be crash tested and approved by another government agency. The post shall be FHWA and Caltrans approved. The square end of the post can be pointed for easy penetration and shall be capable of being driven into the ground by the use of an approved driving cap.

Corner weld steel shall be carefully rolled to size and shall be welded directly in the corner by high frequency resistance welding and externally scarfed to agree with corner radii. Corner weld should be zinc coated after scarfing operation.

The manufacturers name shall be metal die stamped along the length of the tubing to insure identification. The spacing between the stamps shall not exceed 24". The stamp shall be along one side on the outside for easy identification.

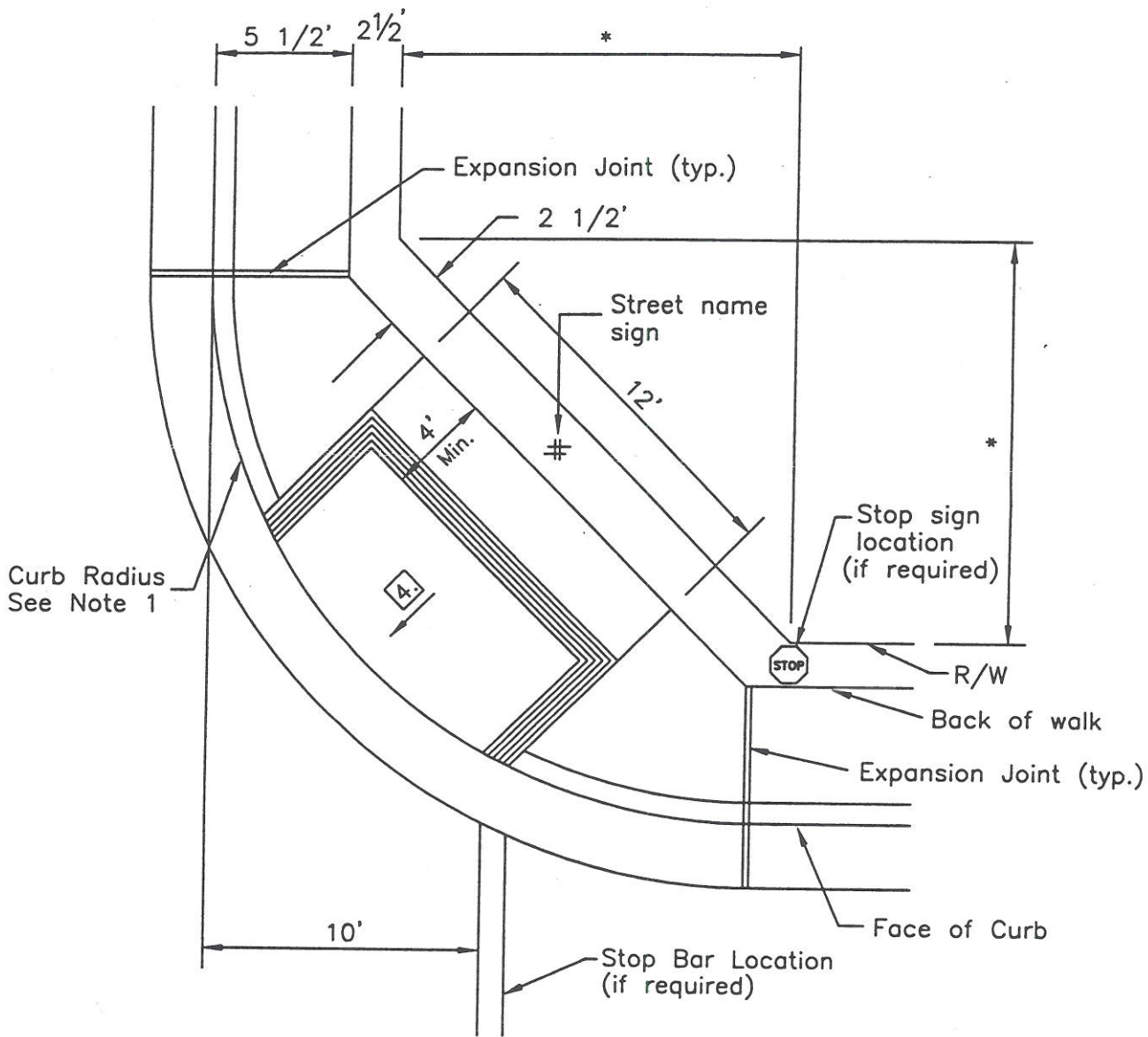
Post Saddle shall conform to L.A.D.O.T. Standard Drawing No. S-4960.0

Drive Rivets shall conform to L.A.D.O.T. Standard Drawing No. S-495.0.

Drivable Flush-mount Anchor System shall conform to L.A.D.O.T. Standard.

The cross section of the post shall be square or rectangular tube formed of 12 gauge steel, carefully rolled to size and shall be welded directly in the corner by high frequency resistance welding and externally scarfed to agree with corner radii.

* 20' for intersection of 50' R/W and 60' R/W streets,
30' for intersection of 50' R/W or 60' R/W streets,
with 84' R/W and 110' R/W arterials



Notes:

1. Curb radius shall be 30' for intersection of 50' R/W and 60' R/W streets and 40' for intersection of 50' R/W or 60' R/W with 84' R/W or 110' R/W arterials.
2. Catch basins, sign posts, utility poles or other obstructions are not to be located within the wheelchair path area.
3. See Standard Drawing No. CW-7, R-10, 11, 25 for curb, gutter & sidewalk, handicap ramp and sign details.
- 4.** S=1:12 max., 1:15 min.

No.	Revised	By
1	Feb. 1996	PD

Drawn by JLD

Checked by

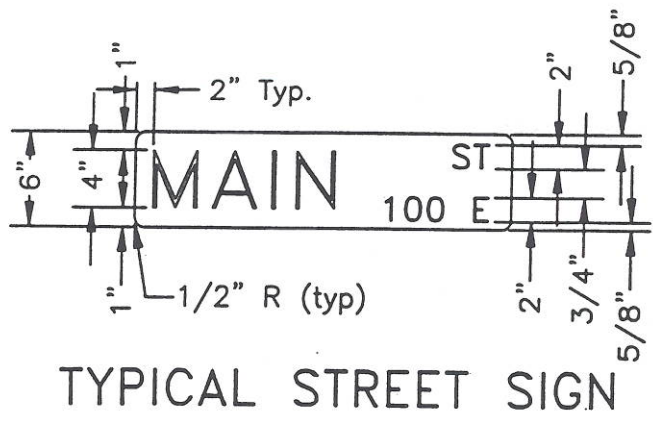
Scale NONE

LOCAL CURB RETURN

Approved by
Henry M. Arata
Director of Public Works

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

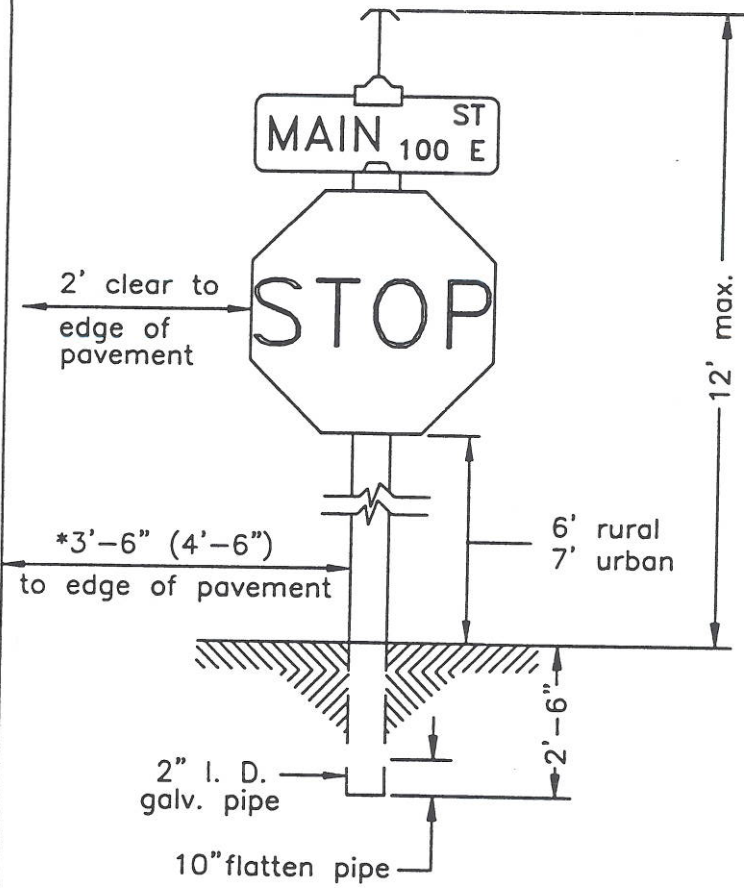
Date JUNE 1997
Drawing No. R-23



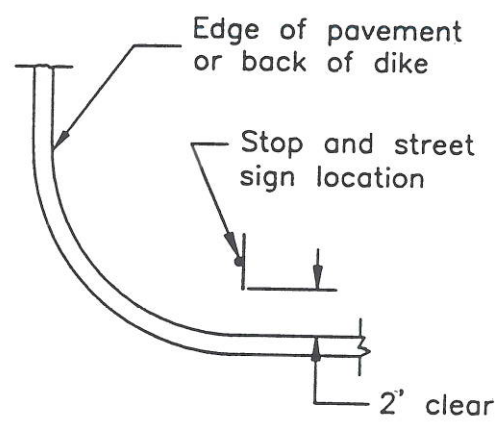
TYPICAL STREET SIGN

NOTES:

1. One street sign is required at each intersection.
2. Block numbers are to be acquired from the San Joaquin County Community Development Department.
3. See improvement plans for location of traffic control devices.
4. The length of the street sign varies due to the length of the street name.
5. See Standard Drawing No. R-23 for proposed sidewalk sign locations.
6. Stop signs shall be 30" for urban areas and for internal subdivision streets; 36" for rural areas and for streets which intersect County roadways, also to be preceded by a W17, 36" stop ahead sign with appropriate pavement markings.



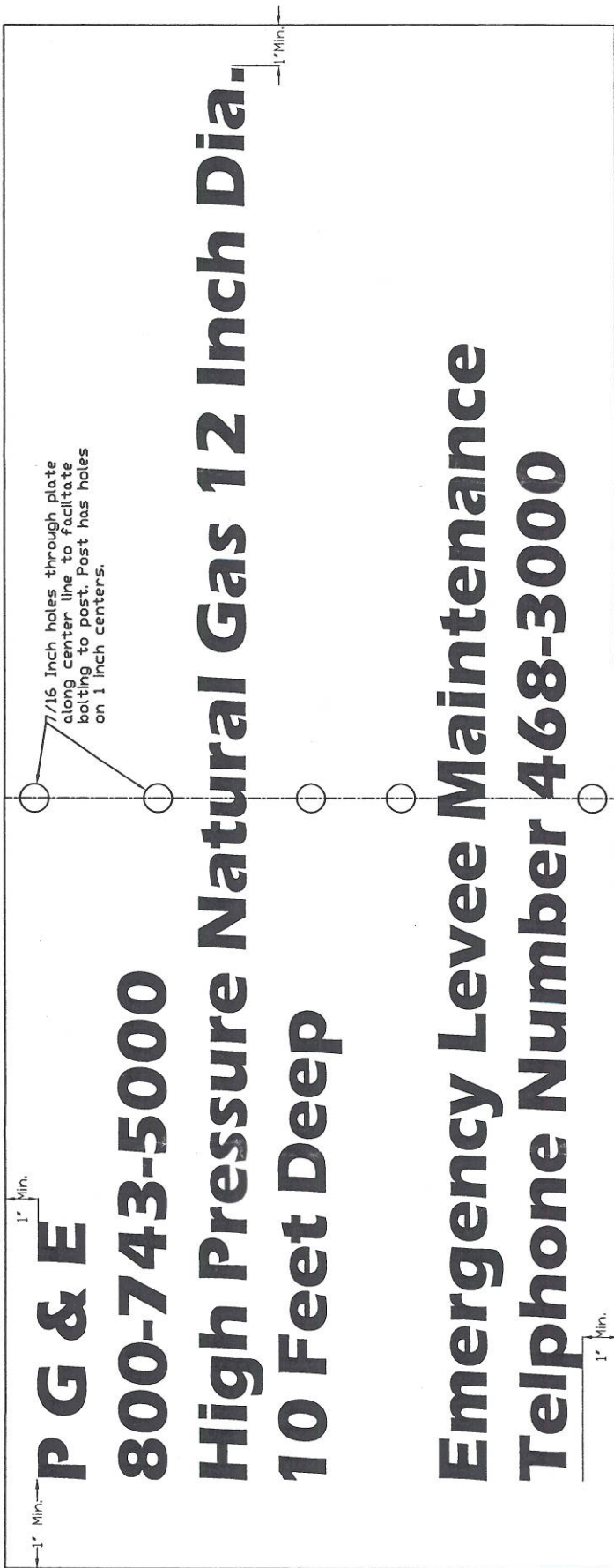
TYPICAL STOP AND STREET SIGN INSTALLATION



STOP AND STREET SIGN LOCATION DETAIL

* In URBAN Locations
3'-6" or more to face of post
In RURAL Locations
4'-6" or more to face of post

No.	Revised	By	STANDARD STREET SIGN DETAILS	Approved by
1	April 1997	TL		<i>Henry M. Herata</i>
				Director of Public Works
Drawn by JLD			COUNTY OF SAN JOAQUIN DEPARTMENT OF PUBLIC WORKS	Date JUNE 1997
Checked by				Drawing No. R-25
Scale NONE				



NOTES

1. Sign shall be painted with one coat of metal primer and two coats of reflective white paint.
2. Sign shall be constructed out of steel plate a minimum of 1/8 inch thick.
3. The letters shall be a minimum 3/4 inch high cut through the plate.
4. The utility marker sign shall be bolted to each perforated post.
5. Sign shall be bolted the perforated post at 90 degrees across the utility line.
6. Sign shall state:
Utility Owner
Utility Emergency Number
Type Of Utility
Size of Utility
Depth to Utility
Emergency Levee Maintenance Telephone Number 468-3000
7. A 7/16" bolt hole shall be placed within one inch of the upper and lower edges of the sign, and the lettering shall be spaced so that a bolt hole is placed for every three inches of sign height between the upper and lower bolt holes.
8. Post has 7/16 inch holes on 1 inch centers lined vertically along the center line of the post.

DATE 1/17	PROJECT NUMBER	DATE	CHECKED	DATE	SUBMITTED	DATE	APPROVAL RECOMMENDED	DATE	COUNTY OF SAN JOAQUIN	NO SCALE	Utility Markers Sign Detail	San Joaquin County Standards
DATE 1/17	PROJECT NO.	DATE	DATE	DATE	DATE	DATE	DATE	DATE				
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