



# COUNTY OF SAN JOAQUIN

DEPARTMENT OF PUBLIC WORKS  
P.O. BOX 1810-1810 E. HAZELTON AVENUE  
STOCKTON, CALIFORNIA 95201  
(209) 468-3000  
FAX # (209) 468-9324

Permit No: PS-1801141  
Date Issued: 04/11/2018  
Start Date: 04/12/2018  
Exp. Date: 04/19/2018  
Project No: PWP110005  
Quad: SE

## ENCROACHMENT PERMIT

To: CVIN, LLC  
7447 N. PALM BLUFFS AVE., STE. 105  
FRESNO, CA 93711

### Encroachment Type:

Trench			
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### Location:

E/S OF MCHENRY AVE. 10' S/O RIVER RD.

In compliance with your request of **04/11/2018**, permission is hereby granted to do work in County right-of-way as shown on attached application and subject to all the terms, conditions and restrictions written below or printed as general or special provisions on any part of this form. See reverse side and attached sheet, if any.

Trench excavations for service connections will not be permitted within ten feet (10') of pavement centerline unless otherwise approved by the Director. Surface of trench patches shall match in kind and be smooth and even with that of abutting surface. Special attention shall be given to depth of utilities through roadside area in anticipation of future drainage facilities, road profile and/or frontage development. All underground utility facilities are to be established and accurately dimensioned on sketches from surveyed centerline of road right of way, or from right of way (border) lines.

Permittee shall call the Department of Public Works, Field Engineering Division (Permit Inspections) at (209)953-7421 at least forty-eight hours prior to beginning any work within the County right of way. All work performed under this permit shall conform to the rules and regulations pertaining to safety established by the California Division of Industrial Safety and Cal-OSHA.

The jobsite shall be kept in a safe condition at all times by the daily removal of any excess dirt or debris which might be a hazard to either pedestrian or automobile traffic. All necessary traffic convenience and warning devices and personnel shall be provided, placed and maintained by and at the sole expense of the Permittee in accordance with the latest edition of the CALTRANS Manual of Traffic Control.

After completion of the work permitted herein, all debris, lumber, barricades, or any excess material shall be removed and the jobsite left in a neat workmanlike manner. Immediately following completion of construction permitted herein, Permittee shall fill out and mail notice of completion (see attached post card) provided by Grantor.

### Special Comments:

Traffic Control Per MUTCD****Work that requires a lane closure or flagging shall be done between hours of 9:00 AM to 2:00 PM*****Work must be completed by 4/19/2018*****See Attached "Special Conditions"*****
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FORMS: 

SS/WW, R-29		
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Est. Permit Fee: \$0.00

WHITE -Permittee  
GOLDENROD -PWD Central File  
YELLOW -Field Inspection  
PINK -Permit Section

KRIS BALAJI, Director  
Department of Public Works

By: \_\_\_\_\_

Permit Section



## ENCROACHMENT PERMIT GENERAL PROVISIONS

13-1

1. This permit is issued under and subject to all laws and ordinances of agencies governing the encroachment herein permitted. See the following references:  
STREETS AND HIGHWAYS CODE
  1. Division 1, Chapter 3
  2. Division 2, Chapter 2, Section 942
  3. Division 2, Chapter 4, Section 1126
  4. Division 2, Chapter 5.5 and Chapter 6

SAN JOAQUIN COUNTY ORDINANCES NUMBERED: 324, 441, 648, 662, 672, 695, 700, 860, 892, 3339, and 3675.

2. It is understood and agreed by the Permittee that the performance of any work under this permit shall constitute an acceptance of all the provisions contained herein and failure on the Permittee's part to comply with any provision will be cause for revocation of this permit. Except as otherwise provided for public agencies and franchise holders, this permit is revocable on five days notice.
3. All work shall be done subject to the supervision of and the satisfaction of the grantor. The Permittee shall at all times during the progress of the work keep the County Highway in as neat and clean condition as is possible and upon completion of the work authorized herein, shall leave the County Highway in a thoroughly neat, clean and usable condition.
4. The Permittee also agrees by the acceptance of this permit to properly maintain any encroachment structure placed by the Permittee on any part of the County Highway and to immediately repair any damage to any portion of the highway, which occurs as a result of the maintenance of the said encroachment structure, until such time as the Permittee may be relieved of the responsibility for such maintenance by the County of San Joaquin.
5. The Permittee also agrees by the acceptance of this permit to make, at its own expense, such repairs as may be deemed necessary by the County Department of Public Works.
6. It is further agreed by the Permittee that whenever construction, reconstruction or maintenance work upon the highway is necessary, the installation provided for herein shall, upon request of the County Department of Public Works, be immediately moved or removed by and at the sole expense of the Permittee.
7. No material used for fill or backfill in the construction of the encroachment shall be borrowed or taken from within the County right of way.
8. All work shall be planned and carried out with as little inconvenience as possible to the traveling public. No material shall be stacked within eight feet (8') of the edge of the pavement or traveled way unless otherwise provided herein. Adequate provision shall be made for the protection of the traveling public. Traffic control standards shall be utilized including barricades; approved signs and lights; and flagmen, as required by the particular work in progress.
9. The Permittee, by the acceptance of this permit, shall assume full responsibility for all liability for personal injury or damage to property which may arise out of the work herein permitted or which may arise out of the failure of the part of the Permittee to properly perform the work provided under this permit. In the event any claim of such liability is made against the County of San Joaquin or any department, official or employee thereof, the Permittee shall defend, indemnify, and hold each of them harmless for such claim.
10. All backfill material is to be moistened as necessary and thoroughly compacted with mechanical means. If required by the County Director of Public Works, such backfill shall consist of gravel or crushed rock. The Permittee shall maintain the surface over structures placed hereunder as may be necessary to insure the return of the roadway to a completely stable condition and until relieved of such responsibility by the County Department of Public Works. Wherever a gravel, crushed rock or asphalt surface is removed or damaged in the course of work related to the permitted encroachment, such material shall either be separately stored and replaced in the roadway as nearly as possible in its original state or shall be replaced in kind, and the roadway shall be left in at least as good a condition as it was before the commencement of operations of placing the encroachment structure.
11. Whenever it becomes necessary to secure permission from abutting property owners for the proposed work, such authority must be secured by the Permittee prior to starting work.
12. The current and future safety and convenience of the traveling public shall be given every consideration in the location and methods of construction utilized.
13. The Permittee is responsible for the preservation of survey monuments located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Corner Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)
14. Prior to any excavation, the Permittee shall notify USA North (Underground Service Alert of Northern California and Nevada) at 811 or 800-227-2600 forty-eight (48) hours in advance.



SPECIAL CONDITIONS FOR  
CVIN – RELOCATION PROJECT – McHENRY BRIDGE  
ENCROACHMENT PERMIT

1. Maintain traffic controls for all roads. Traffic control delays shall not exceed 15 minutes. Two-way traffic shall be maintained during non-working hours with excavated areas backfilled or plated. During working hours (9:00 AM to 2:00 PM), two-way traffic control shall be maintained with one lane open and appropriate flaggers.
2. Work must be completed by Thursday (4/19/2018).
3. Access to all properties shall be maintained at all times except when work is occurring at the access point. Minimal delays will be allowed to provide access within the work zone area. Driveway access shall be fully restored at the end of each workday. Driveways disturbed by the contractor shall be replaced with in-kind or better materials.
4. Residents and businesses shall be notified in writing, as approved by the County, 48 hours in advance of any impacts to their access.
5. Any areas where parking is to be restricted shall have signs noting the restrictions in place at least 48 hours in advance.
6. School Buses shall be passed through the work zone with minimal delays.
7. All destroyed or obliterated pavement markings must be replaced in kind by the permittee. Typical pavement markings include but not limited to lane lines, centerlines, stop and stop ahead legends, limit lines, raised pavement markers and miscellaneous delineators.
8. The Permittee is responsible for the preservation of survey monuments located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Corner Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)
9. All pipe and pipeline related facilities including, but not limited to, valves, utility boxes and vaults, and frames and covers shall be maintained by CVIN, including any facilities that are abandoned in place. CVIN shall be responsible for any and all costs associated with the removal, relocation and/or adjustment of these facilities as determined by the County at CVIN's expense. (Streets and Highways Code Section 1463)
10. All future maintenance of the pipeline and related facilities within the County right-of-way will require a San Joaquin County Encroachment Permit.
11. Trenches shall be maintained in a smooth and even condition to the satisfaction of the County throughout the project limits at all times.
12. All trenches shall be completely backfilled or shored and plated at the end of each workday, and the roadway restored to two-way traffic. If plating is to be used, a trench shoring and plating plan

suitable for traffic loadings shall be prepared by a registered civil engineer and submitted for prior approval by the County.

13. The contractor shall use San Joaquin County Improvement Standard R-29 when backfilling trenches within the County right-of-way. Where the existing road structural section is below standard, a minimum section of 3 inches of asphalt concrete over 8 inches of aggregate base shall be required.
14. Above ground vaults, panels and/or other similar facilities will be allowed within the right-of-way if located as far to the outside edge as possible. Utility vaults shall be located a minimum of 4'-0" from edge of pavement.
15. County roads shall be kept clean from mud and debris at all times along the access points and work zone areas during entire project. All standard roadway striping and signage shall be clearly visible, maintained and restored throughout the construction zone during and after the project.
16. In addition to standard dust control measures, streets shall be maintained in a clean condition, free of dirt, mud and debris during construction activities. The contractor shall provide daily, or as needed, street sweeping using a modern mechanical or vacuum-assisted street sweeper.
17. The contractor shall not conduct construction operations in rain or heavy fog conditions.

# APPLICATION FOR ENCROACHMENT PERMIT

## PLEASE PRINT:

Date 3/27/2018

To: San Joaquin County  
Department of Public Works

CVIN, LLC  
(Applicant Name)

SUITE 105

7447 N. PALM BLUFFS AVE  
(Mailing Address)

FRESNO CA 93711  
(City, State, Zip Code)

559-554-9114 Salvador  
(Area Code - Telephone Number)

Spleitez@CVIN.com  
(Email Address)

## OFFICE USE ONLY

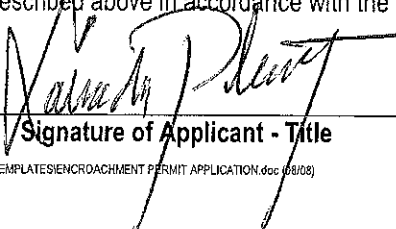
JOB #	<u>110005</u>	REF #	
APN		CR #	
EXP. DATE	<u>4/19/18</u>		
VALID	<u>4/18/18</u> TO <u>4/19/18</u>	DRIVEWAYS:	
STREET	<u>McHenry Ave.</u>	*	
AREA	<u>Excavation</u> QUAD <u>SE</u>	*	
TYPE	<u>Trench</u>	*	
FORMS	<u>SS/NN, R-29</u>		
NOTES	<u>"Special Conditions"</u>		

Sketch (Detailed plans may be submitted)

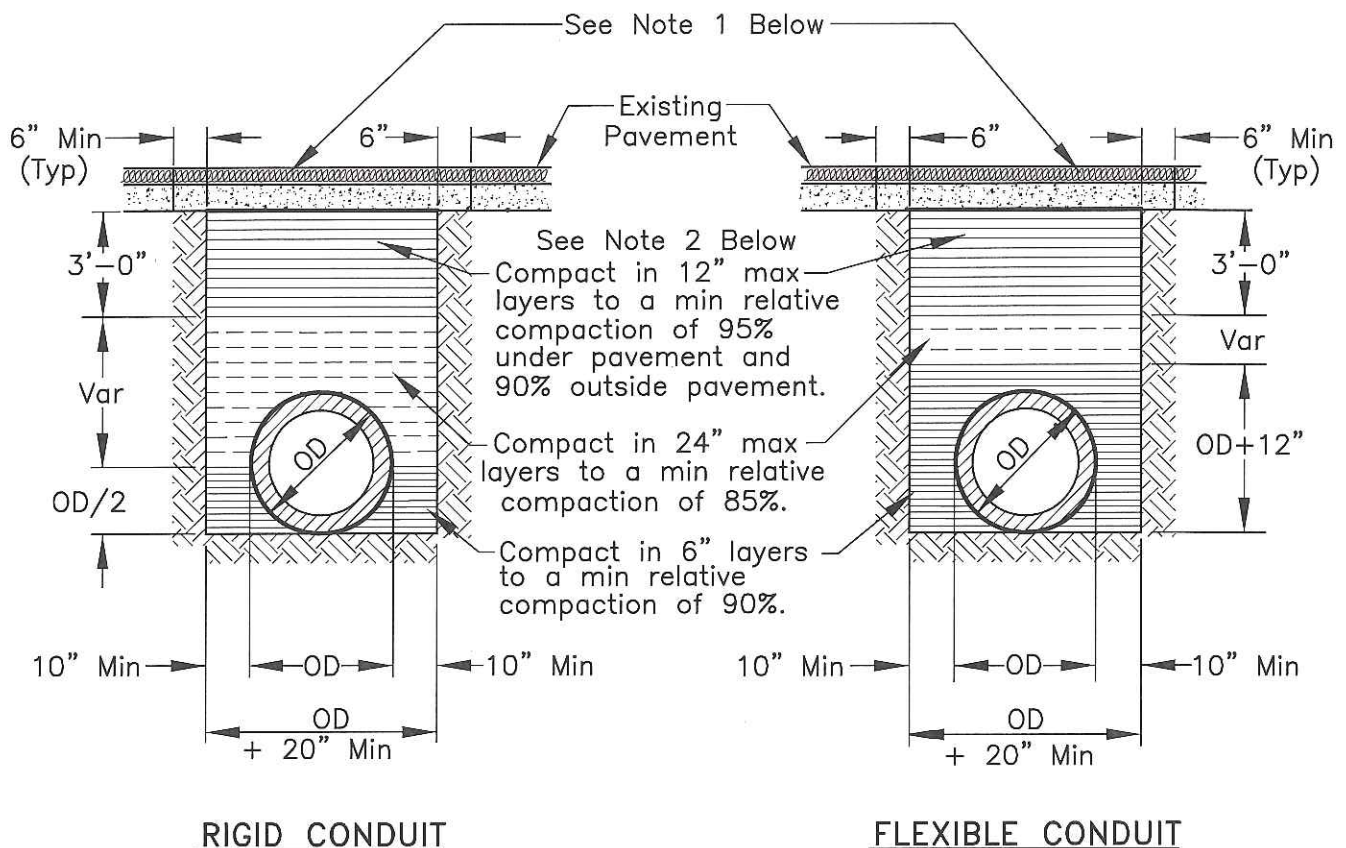
SEE ENCLOSED PLANS

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the EAST side of MC HENRY AVE approximately 30 feet/mile of EDGE OF ROAD, by performing the following work (description of work):  
TRENCHING APPROX 66 FT. TO RELOCATE OUR EXISTING FIBER OPTIC CABLE DUE TO THE CONSTRUCTION OF NEW BRIDGE. OUR CREWS WILL BE ALSO CONSTRUCTING A TRAFFIC PATED VAULT. ALL WORK WILL TAKE PLACE OUT OF THE TRAFFIC LANES AND NO TRAFFIC CONTROL IS ANTICIPATED.  
Work will commence on or after 4/18/18 for approximately 5 DAYS days.

I, the undersigned, certify that I am the owner of the respective property, or am qualified to represent the owner and agree to do the work described above in accordance with the rules and regulations of San Joaquin County and subject to inspection and approval.

  
Signature of Applicant - Title

3/28/2018  
Date



#### NOTES:

1. New pavement shall be 1" thicker than existing pavement, minimum of 0.25 Ft. New base shall be 1" thicker than existing base, min of 0.50 Ft.
2. Select native material or imported granular material as approved by the Director of Public Works. Backfill with materials equal to or better than the existing pavement and base in quality.
3. Relative compaction of materials shall be tested in accordance with the State of California, Dept. of Transportation Testing Manuals, test method No. California 216 or 231.
4. All existing pavement shall be neatly cut to line prior to trench excavation.
5. Jetting or ponding will be permitted within the street right-of-way with a 3 year bond, when approved by the Director of Public Works.
6. When shown by soil composition and compactability, ninety percent (90%) compaction may be used, when approved by the Director of Public Works.
7. Special bedding and backfill requirements may be shown on the plans or specified in the special provisions.



## TYPICAL TRENCH BACKFILL

COUNTY OF SAN JOAQUIN  
DEPARTMENT OF PUBLIC WORKS

Approved by:

*Thomas M. Hall*

No.	Revision	Description	Date

Date: DEC 2014

Std. Dwg. No.

**R-29**



## **GENERAL PROVISIONS**

### **GOVERNING INSTALLATION OF SUBSURFACE STRUCTURES AND PIPELINES WITHIN COUNTY ROAD RIGHTS-OF-WAY**

#### **PUBLIC CONVENIENCE AND SAFETY:**

- A. Before obstructing any private driveway entrance or County road traveled way with a trench, spoil bank, equipment or other barrier permitted for any prolonged period of time, the Permittee shall notify the known users of the respective thoroughfare(s) involved, and shall provide access for vehicular and pedestrian traffic to and from the road.
  - 1. Unless otherwise permitted, all work shall be conducted in such a manner that no less than one lane of the existing County road traveled way will be maintained open to public traffic during working hours in a smooth and safe riding condition(s). Two lanes shall be open after working hours.
  - 2. In cases where road closure is permitted, the permission to close the road will be granted under the condition that the Permittee notify the following persons and/or agencies of the time, the period of closure, and the detour route at least twenty-four (24) hours prior to said road closure.
    - a. The County of San Joaquin Public Works Department
    - b. The County of San Joaquin Sheriff's Office
    - c. The local postal service
    - d. The local fire district
    - e. The local school district
    - f. The local residents involved
- B. Should hazardous conditions relative to the installation operations warrant flagmen, as many capable flagmen as may be necessary shall be provided by the Permittee and stationed in advance of work to warn and direct traffic.
- C. Lights, signs and barricades shall be furnished, erected and maintained by the Permittee for the adequate warning and convenience of the public, with particular attention to be taken in this regard after dark.
- D. Any excess dirt and/or debris which might be a hazard to either automobile or pedestrian traffic, uncontrollable by lights, signs and barricades, shall be removed from the jobsite daily.

#### **STRUCTURES:**

- A. Walls of structures shall be such quality and strength that they will resist all pressures and will not crack or be deformed in such a way as to create a hazard or maintenance problem at any time. Therefore, the minimum structural requirements for concrete pipe placed under county road rights-of-way shall conform to the following American Association of State Highway and transportation Officials (AASHTO) designations.
  - 1. For concrete pipe up to and including thirty-three inches (33") inside diameter, extra strength concrete conforming to AASHTO Designation M 170M.
  - 2. For concrete pipe thirty-six inches (36") inside diameter and larger, reinforced concrete pipe conforming to AASHTO Designation M 170M Class III.
  - 3. Plastic pipe conforming to AASHTO Designation M294.
- B. All concrete pipe joints with County road rights-of-way shall be sealed against leakage and/or infiltration with rubber gasket in conformance with Section 65-1:06 of the California Standard Specifications, or with other methods as may be permitted under the Special Provisions.
- C. Cast-in-place concrete pipe, vitrified clay pipe, spiral welded steel pipe, or corrugated aluminum alloy pipe shall not be installed within the County road rights-of-way unless specifically so stated in the Special Provisions, and only under the conditions as provided.
- D. All structures to be buried within the County rights-of-way shall be set at such elevations as to allow minimum coverage of thirty inches (30") to the centerline of the roadways and twelve inches (12") at the bottoms of borrow ditches each side of the roadways. The depths of structures shall be established below a flat plane extending across the rights-of-way, no part of which shall extend above the elevations stated above; manholes, lampholes, valves, etc. not included. Future surface elevations shall be anticipated as nearly as possible and structure elevations shall be established for future adjustments accordingly.
- E. The County hereby reserves the right to specify in the Special Provisions the gage and surface treatment of any galvanized corrugated metal pipe that is to be installed.
- F. All longitudinal utility facilities are to be established (and dimensioned on sketches) from surveyed centerline of road right-of-way, not from right-of-way (border) lines.

#### **REPAIRS OF THE COUNTY RIGHT-OF-WAY:**

- A. All excavations shall be backfilled and compacted immediately after work therein has been completed.
- B. Trenched shall not be left open farther than 300 feet in advance of pipe laying operations, or 200 feet to the rear thereof, unless otherwise permitted by the Engineer.
- C. Unless otherwise permitted under the Special Provisions, backfill shall be placed and mechanically compacted in such a manner that the relative compaction throughout the entire fill within the County road right-of-way shall conform to the percentages of compaction as shown on the Trench detail.
- D. Backfill material shall be placed in horizontal uniform layers not to exceed in thickness, before compaction, 0.67 foot in the bedding region, one foot where 90% compaction is required, and two-feet where 80% compaction is required.
- E. No portion of the excavation(s) shall be compacted by ponding or jetting unless a maintenance bond is provided.
- F. Gravel backfill material shall be utilized only where specifically so stated on the face of the permit. It shall be compacted by means of a high-frequency internal vibrator, the compactor to be a size and type approved by the Engineer. Points of compaction shall not be greater than 18" centers and to the full depth of the lift.
- G. All pavements, curbs, gutters, sidewalks, borrow ditches, pipes, head walls, road signs, trees, shrubbery, and/or other permanent road facilities impaired by or as a result of construction operations at the construction site(s) occupied by materials and/or equipment, shall be restored immediately upon backfilling of the excavation to the original grades and cross sections, and to a condition as good as, or better than existing prior to construction.
- H. All surfacing materials of roadways and driveway approaches cut or damaged by or as a result of construction operations, shall be replaced within ONE WEEK following the backfilling of excavation, weather permitting, with compacted layers of surfacing materials at least as thick as the existing, and no less than two inches (2") of asphalt concrete over six inches (6") of aggregate base, both as specified below.
  - 1. Asphalt Concrete: Combined mineral aggregate shall conform to the quality and gradation requirements for Type "B" one-half inch (1/2) maximum aggregate, coarse or medium gradation as specified in Section 39 of the California Standard Specifications. The bituminous binder to be mixed with mineral aggregate shall be paving asphalt having (Grade PG 64-10), unless otherwise directed by the Engineer. Placement of asphalt concrete surfacing shall conform to the applicable provisions of Section 39 of the California Standard Specifications.
  - 2. Aggregate Base: Combined mineral aggregates shall conform to the quality and the grading for three-quarter inch (3/4") maximum size aggregate Class 2 Aggregate Base specified in Section 26 of the California Standard Specifications.
- I. Before acceptance of repairs to the County road rights-of-way, all unsightly and detrimental dirt, dust and/or debris shall be removed and the construction areas left in a neat and presentable condition(s).
  - 1. If necessary, County road traveled way and driveway pavements shall be washed with water to remove dirt and dust.
  - 2. Driveway approaches and field entrance pavements damaged by equipment or spoil banks shall be repaired as directed by the Engineer.
- J. Upon request by the County, any settlement, sagging of surface, or cracking of pavement shall be repaired immediately by and at the sole expense of the Permittee for a period of one year following acceptance of the work.

## SPECIAL PROVISIONS

### Winter Weather Utility Work

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1. **SUPERVISION:** The utility company (**permittee**) shall furnish full-time supervision of all work to insure compliance with the permit provision.
2. **START OF WORK:** No work within the County right-of-way shall be started until the utility company representative has made an evaluation of weather conditions and has determined the work can be accomplished under the provisions of the permit.
3. **CLEAN PAVEMENT:** Dirt and mud shall not be deposited on the pavement outside the area of work, and if inadvertently tracked onto the road travel way shall be removed immediately.
4. **DAILY RESTORATION:** Private driveways and road intersections shall be restored daily.
5. **WEATHER-TIGHT CONDITIONS:** All trenches shall be filled and compacted, ditches and other drainage facilities regarded and opened, and the entire work area restored to weather-tight condition prior to any rain.



CVIN CONSTRUCTION OFF GRANT 3004-MCHENRY AVE BRIDGE REPAIR AUTOCAD 3004 - MCHENRY AVE BRIDGE.DWG - PLOT DATE: 3/21/2018 2:21 PM - PLOTTED BY: ROBERT BIEBS

SAN JOAQUIN COUNTY PERMIT LENGTH:					
CONSTRUCTION TOTALS			MATERIAL TOTALS		
TRENCH	---	LF	1.25"Ø HDPE CONDUIT	---	LF
PLOW	---	LF	4-WAY FUTURE PATH	---	LF
BORE	---	LF	10/12mm MICRODUCT	---	LF
CASED BORE	---	LF	4"Ø CASING	---	LF
BRIDGE ATTACHMENT	---	LF	3/4"Ø EMT PIPE	---	LF
CUT & TRENCH	---	LF	16 AWG TRACER WIRE	---	LF
ROCKSAW	---	LF	MULE TAPE	---	LF
AERIAL	---	LF	BORE PITS	---	
AERIAL STRAND	---	LF	24x36x30 HANDHOLES	---	
POLE RISER	---		BARREL VAULT	---	

CONTRACTOR NOTICE:

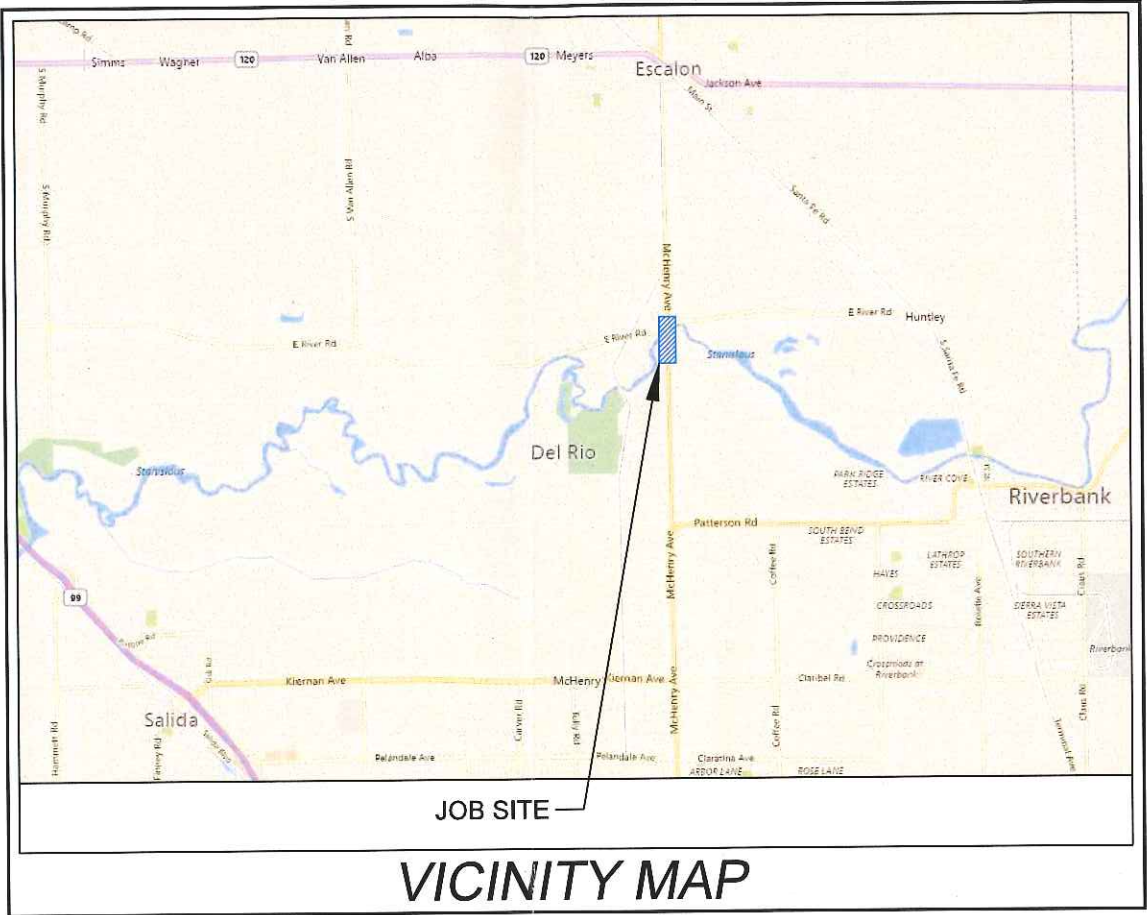
THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY FIELD INSPECTION AND A SEARCH OF THE AVAILABLE CITY OR COUNTY RECORDS. SINCE THE ACTUAL LOCATION AND NATURE OF THE UNDERGROUND FACILITIES MAY BE SOMEWHAT DIFFERENT FROM THAT SHOWN, THE CONTRACTOR IS REQUIRED TO VERIFY THE INFORMATION THROUGH UNDERGROUND SERVICE ALERT (USA) OR BY CONTACTING THE UTILITY COMPANIES DIRECTLY, PRIOR TO EXCAVATION.

GENERAL NOTES:

THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE PERMIT AGENCY'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THAT AGENCY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT:

- THE LOCATIONS OF EXISTING UTILITIES, RIGHTS-OF-WAY AND EASEMENTS SHOWN ON THESE PLANS ARE BASED ON AVAILABLE RECORDS AND ARE APPROXIMATE IN NATURE. WHERE CONFLICTS EXIST WITHIN THE RECORDS OR BETWEEN THE RECORDS AND FIELD OBSERVATIONS, THE ENGINEER OF WORK ASSUMES NO RESPONSIBILITY FOR THE CORRECTNESS OF THAT INFORMATION AS DEPICTED.
- PRIOR TO COMMENCING IMPROVEMENT OPERATIONS, THE CONTRACTOR SHALL VERIFY THE LOCATION, BOTH HORIZONTALLY AND VERTICALLY, OF ALL EXISTING FACILITIES AFFECTED BY THE PROPOSED WORK, WHETHER OR NOT THOSE FACILITIES ARE DEPICTED CORRECTLY ON THESE PLANS.
- IF EXISTING FACILITIES VARY SIGNIFICANTLY IN LOCATION OR DEPTH FROM THESE PLANS, THE ENGINEER OF WORK SHOULD BE NOTIFIED TO MAKE ANY DESIGN CHANGES REQUIRED.
- THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
- THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER OF WORK HARMLESS.
- THE BORE LOCATIONS INDICATED ON THE STAKING SHEETS ARE THE ENGINEER'S BEST ESTIMATE OF LOCATION AND LENGTH AS REQUIRED TO MEET JURISDICTIONAL REQUIREMENTS AND/OR TO AVOID SURFACE OR OTHER DAMAGE THAT MAY BE ASSOCIATED WITH TRADITIONAL TRENCHING OR PLOWING METHODS. INSPECTOR & CONTRACTOR SHALL REVIEW ALL FIELD CONDITIONS PRIOR TO CONSTRUCTION AND VERIFY THAT THE INDICATED BORE UNITS ARE ACCURATELY IDENTIFIED, APPROPRIATELY LOCATED AND ACTUALLY REQUIRED (NOTIFY ENGINEER AND /OR OWNER OF ANY DISCREPANCIES). IF A BORE UNIT CAN BE ELIMINATED, WITH THE APPROVAL OF THE PERMITTING AUTHORITY AND WITH AN ASSOCIATED NET COST SAVINGS, THEN THE BORE UNIT SHALL BE ELIMINATED. ALSO, NOTIFY ENGINEER AND /OR OWNER OF ADDITIONAL BORES THAT ARE REQUIRED, BUT ARE NOT INDICATED ON THE STAKING SHEETS.
- THE HANDHOLE/VAULT LOCATIONS INDICATED ON THE STAKING SHEETS ARE THE ENGINEER'S BEST ESTIMATE OF LOCATION FOR PLACING THE UNIT AS REQUIRED TO MEET CVIN, JURISDICTIONAL AND/OR SAFETY REQUIREMENTS AND TO PROVIDE AN APPROPRIATE LOCATION THAT WILL ALLOW FOR PARKING, EASE OF ACCESS AND ADEQUATE SPACE TO PERFORM INSTALLATION AND MAINTENANCE WORK. IN HIGHWAY LOCATIONS WHERE THE CONDUIT RUNNING LINE IS INDICATED TO BE IN THE ROAD SHOULDER NEAR THE EDGE OF ASPHALT, THE HANDHOLES SHALL BE PLACED AT LEAST 20 FEET AWAY FROM THE FOG LINE (BEYOND THE CLEAR RECOVERY ZONE), IN A SAFE LOCATION AWAY FROM ANY BIOLOGICAL OR CULTURAL AVOIDANCE AREAS. CONDUIT SHALL ENTER AND EXIT THE HANDHOLE USING SEPARATE TRENCHES AT 45-DEGREES TO THE ROADWAY TO MAINTAIN ROUTE DIVERSITY. INSPECTOR & CONTRACTOR SHALL REVIEW ALL FIELD CONDITIONS PRIOR TO CONSTRUCTION AND VERIFY THAT ALL INDICATED UHF UNITS ARE APPROPRIATELY LOCATED. FINAL POSITION OF UHF MAY BE RELOCATED IF A MORE APPROPRIATE POSITION CAN BE IDENTIFIED NEARBY. (NOTIFY ENGINEER AND/OR OWNER OF ANY DISCREPANCIES & ADJUSTMENTS). ALSO, NOTIFY ENGINEER AND/OR OWNER OF ADDITIONAL HANDHOLES THAT MAY BE REQUIRED, BUT ARE NOT INDICATED ON THE STAKING SHEETS.
- CONTRACTOR SHALL PROVIDE COMPLETE AS-BUILT PLANS, WITH GPS COORDINATES IN NAD-83 FORMAT, WITH SUB-METER ACCURACY (N000.00000000, W000.00000000) FOR ALL CONDUIT SPLICE POINTS, HANDHOLES AND ROAD CROSSING LOCATIONS, PER CVIN SPECIFICATIONS.
- CONTRACTOR SHALL SUPPLY AND INSTALL (1) 18AWG SOLID COPPER TRACER WIRE (RED INSULATION) WITH 1.25" CONDUIT (IF NOT INCLUDED WITH FUTURE PATH CONDUIT). SPLICE AS REQUIRED WITH GEL-FILLED WIRE NUTS TO ASSURE CONTINUITY.

CVIN, LLC  
SAN JOAQUIN COUNTY PERMIT PLANS  
INSTALLATION OF FIBER OPTIC FACILITIES  
McHENRY BRIDGE RELOCATION



COUNTY OF SAN JOAQUIN DEPARTMENT OF PUBLIC WORKS	
APPROVED AS "ENCROACHMENT PERMIT PLAN SET" APPROVED FOR WORK WITHIN COUNTY RIGHT-OF-WAY ONLY	
ACCEPTED: _____	DATE _____
RCE NO.: _____	EXP. DATE: _____
ENCROACHMENT PERMIT NO.: _____	DATE ISSUED: _____ BY: _____

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SHEET 3	TYPICAL DETAILS
SHEET 4	TYPICAL TRAFFIC CONTROL PLANS
SHEET 5	PERMIT PLANS

SAN JOAQUIN COUNTY GENERAL NOTES:

- THE PERMITTEE IS RESPONSIBLE FOR THE PRESERVATION OF SURVEY MONUMENTS LOCATED WITHIN THE AREA OF WORK HEREIN PERMITTED. PRIOR TO THE START OF CONSTRUCTION, SURVEY MONUMENTS THAT POTENTIALLY MAY BE DISTURBED SHALL BE LOCATED AND REFERENCED BY A LICENSED LAND SURVEYOR, AND A CORNER RECORD FILED WITH THE COUNTY SURVEYOR. ANY SURVEY MONUMENTS DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE REESTABLISHED BY A LICENSED LAND SURVEYOR AND ANOTHER CORNER RECORD FILED WITH THE COUNTY SURVEYOR. (LAND SURVEYORS' ACT SECTION 8771)
- CONTRACTOR SHALL COORDINATE WORK TIMES WITH ESCALON HIGH SCHOOL AS TO NOT INTERFERE WITH PICK-UP AND DROP-OFF TIMES.
- CONTRACTOR SHALL RESTORE SHOULDER AREAS IN FRONT OF MAIL BOXES WITH CLASS II AGGREGATE BASE COMPACTED TO 95%.

CVIN GENERAL CONSTRUCTION NOTES:

- ALL CVIN SUPPLIED MATERIAL TO BE PICKED UP BY CONTRACTOR AT CVIN STORAGE YARD AT 1742 W. PINE, FRESNO, CA. 93728 (NO FORKLIFT IN YARD). CONTRACTOR TO RETURN ALL EXTRA OR UNUSED MATERIALS TO CVIN YARD UPON COMPLETION OF THE PROJECT.
- MATERIAL TO BE INSPECTED BY CONTRACTOR AND CVIN REPRESENTATIVE TO ENSURE QUALITY OF MATERIALS.
- CONTRACTOR TO WALK PROJECT AND CONFIRM TRENCH LOCATIONS, BORE LOCATIONS AND HANDHOLE/MANHOLE LOCATIONS PRIOR TO THE START OF CONSTRUCTION. CONFIRM ANY PROPOSED CHANGES IN WRITING WITH CVIN REPRESENTATIVE.
- CONTRACTOR TO INSTALL PER CVIN SPECIFICATIONS AND DETAILS ATTACHED.
- CVIN REPRESENTATIVE TO BE PRESENT TO INSPECT WORK PERFORMED FOR CVIN AT CALTRANS AND RAILROAD CROSSINGS.
- UPON COMPLETION OF CONSTRUCTION, CONTRACTOR TO CLEAN AND PROOF ALL DUCTS TO ENSURE PROPER INSTALLATION.
- CONTRACTOR TO PLUG ALL CONDUITS PLACED USING SUPPLIED CONDUIT PLUGS.
- CONTRACTOR SHALL SUPPLY AND INSTALL (1) 16AWG SOLID COPPER TRACER WIRE (RED INSULATION) WITH 1.25" CONDUIT (IF NOT INCLUDED WITH FUTURE PATH CONDUIT). SPLICE AS REQUIRED WITH GEL-FILLED WIRE NUTS TO ASSURE CONTINUITY.
- CONTRACTOR SHALL SUPPLY AND INSTALL MULE TAPE IN 1.25"Ø HDPE DUCT CONTINUOUS FROM FROM BEGINNING TO END. PROVIDE 30' SLACK AT BEGINNING AND END HANDHOLES.
- CONTRACTOR SHALL PROVIDE COMPLETE AS-BUILT PLANS TO IDENTIFY RUNNING LINE LOCATION. PROVIDE GPS COORDINATES IN NAD-83 FORMAT, WITH SUB-METER ACCURACY (N000.00000000, W000.00000000) FOR ALL CONDUIT SPLICE POINTS, HANDHOLES, CHANGES IN DIRECTION AND ROAD CROSSING LOCATIONS, PER CVIN SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE CERTIFICATION LETTER STATING THAT ALL CONDUITS AND HANDHOLES HAVE BEEN INSTALLED, CLEANED AND TESTED PER CVIN SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE CERTIFICATION LETTER STATING THAT TRACER WIRE HAS BEEN INSTALLED PER CVIN SPECIFICATIONS AND TESTED TO CONFIRM CONTINUITY FROM BEGINNING TO END.



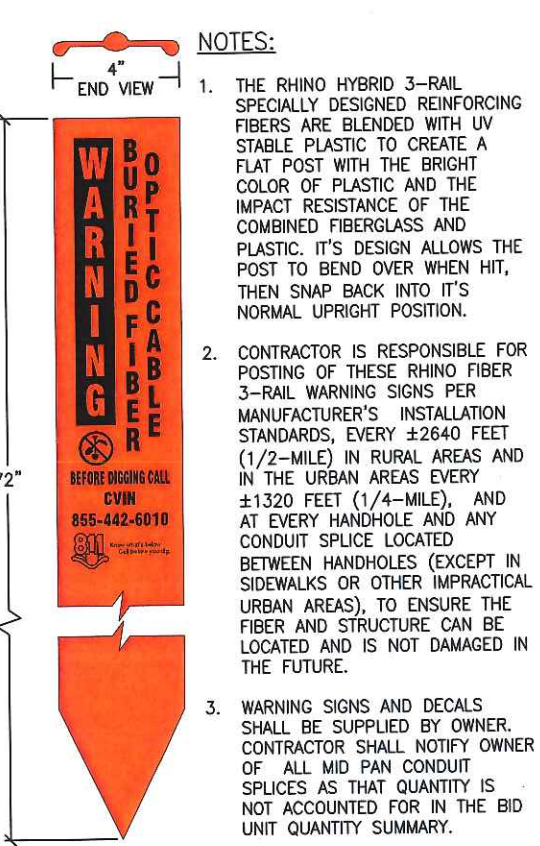
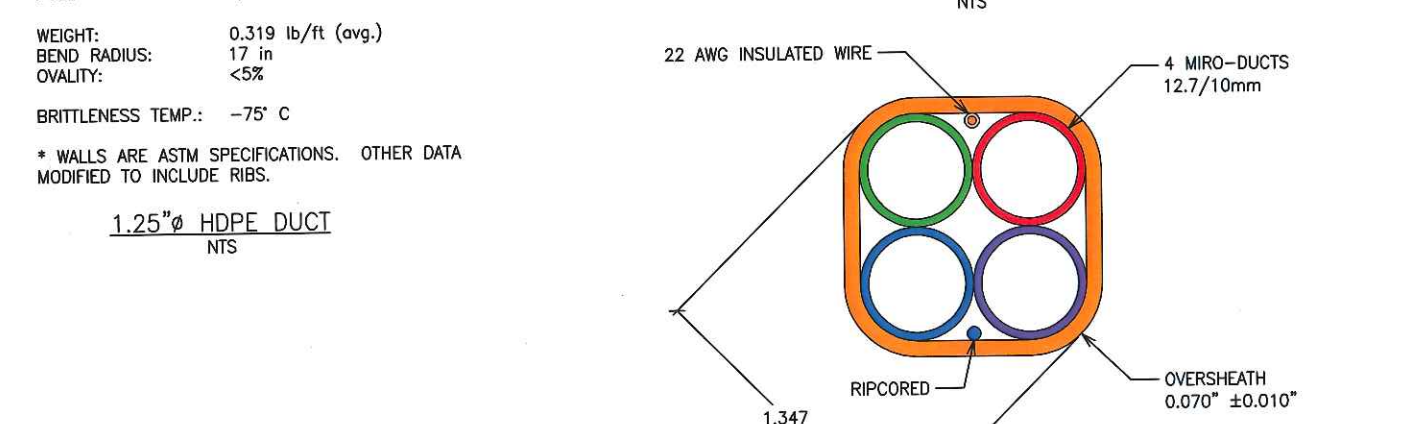
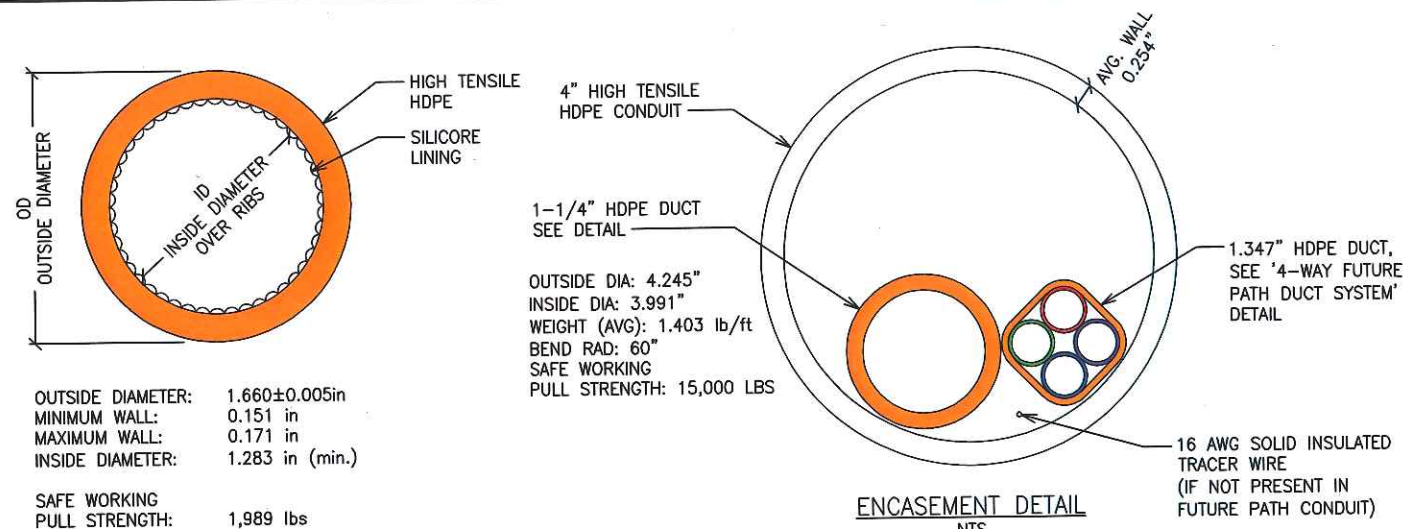
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SAN JOAQUIN COUNTY PERMIT PLANS		DATE:	WORK ORDER:
INSTALLATION OF FIBER OPTIC CONDUITS FOR McHENRY BRIDGE RELOCATION		3/7/18	3004
		SCALE: --	SHEET: 1 of 5





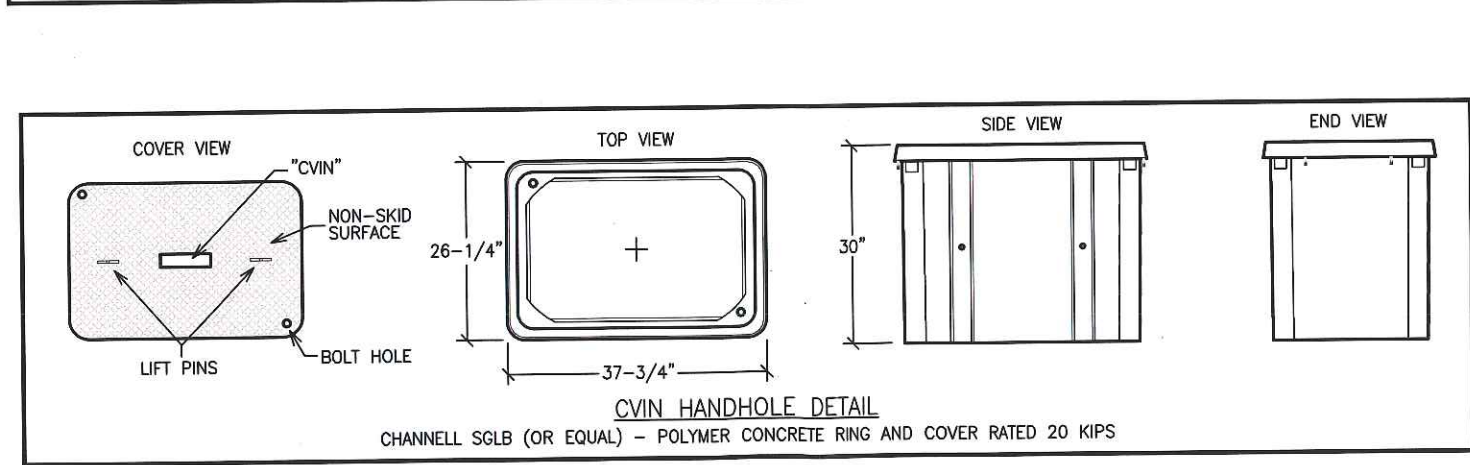
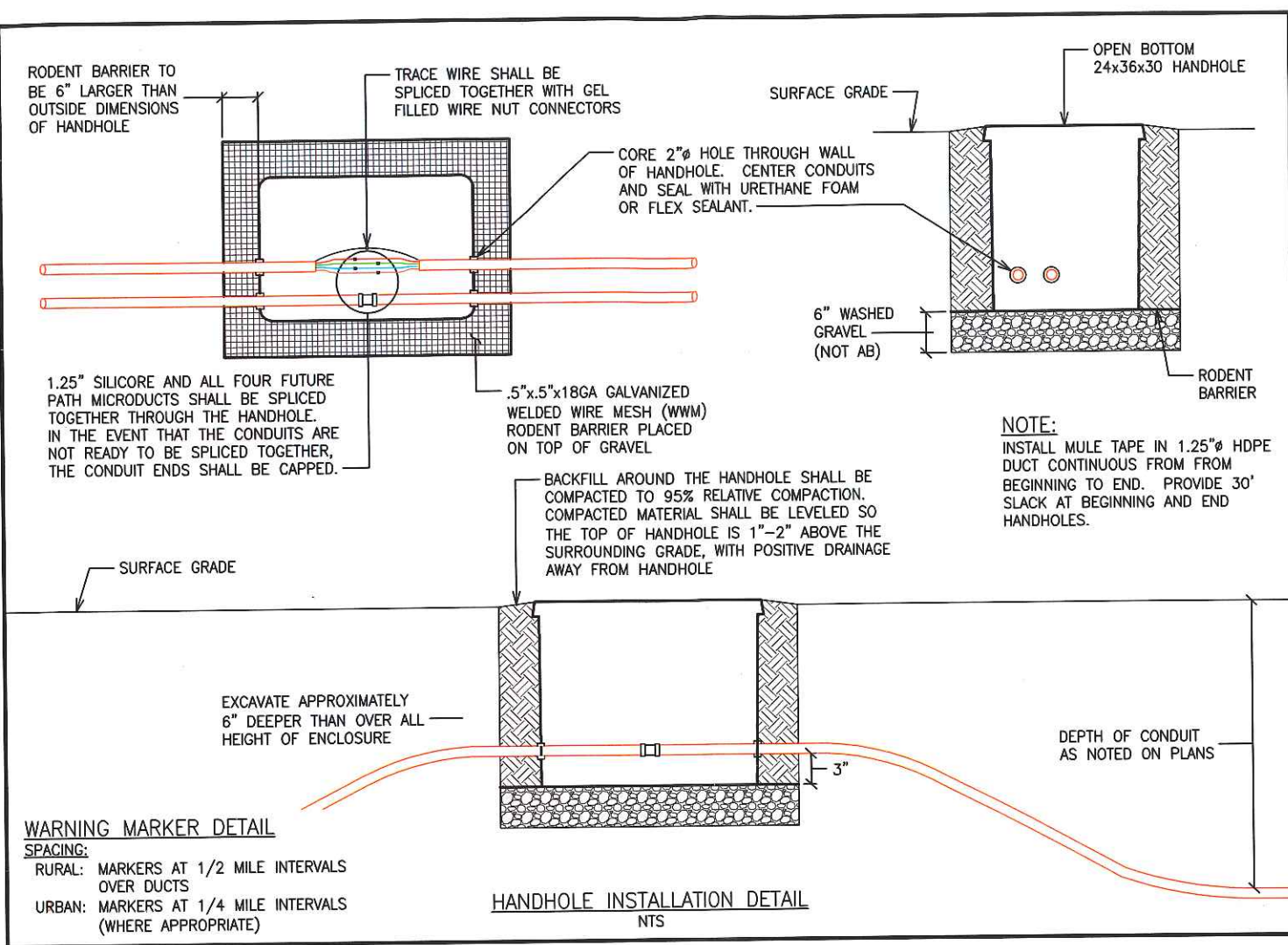
- NOTES:**
1. THE RHINO HYBRID 3-RAIL SPECIALLY DESIGNED REINFORCING FIBERS ARE BLENDED WITH UV STABLE PLASTIC TO CREATE A FLAT POST WITH THE BRIGHT COLOR OF PLASTIC AND THE IMPACT RESISTANCE OF THE COMBINED FIBERGLASS AND PLASTIC. IT'S DESIGN ALLOWS THE POST TO BEND OVER WHEN HIT, THEN SNAP BACK INTO IT'S NORMAL UPRIGHT POSITION.
  2. CONTRACTOR IS RESPONSIBLE FOR POSTING OF THESE RHINO FIBER 3-RAIL WARNING SIGNS PER MANUFACTURER'S INSTALLATION STANDARDS, EVERY ±2640 FEET (1/2-MILE) IN RURAL AREAS AND IN THE URBAN AREAS EVERY ±1320 FEET (1/4-MILE), AND AT EVERY HANDHOLE AND ANY CONDUIT SPlice LOCATED BETWEEN HANDHOLES (EXCEPT IN SIDEWALKS OR OTHER IMPRACTICAL URBAN AREAS), TO ENSURE THE FIBER AND STRUCTURE CAN BE LOCATED AND IS NOT DAMAGED IN THE FUTURE.
  3. WARNING SIGNS AND DECALS SHALL BE SUPPLIED BY OWNER. CONTRACTOR SHALL NOTIFY OWNER OF ALL MID PAN CONDUIT SPLICES AS THAT QUANTITY IS NOT ACCOUNTED FOR IN THE BID UNIT QUANTITY SUMMARY.

**MATERIALS:**

1.1 PERMA-GUARD CONDUIT SHALL BE MADE FROM HIGH-DENSITY POLYETHYLENE (HDPE). THE HDPE SHALL MEET OR EXCEED THE PROPERTIES LISTED IN ASTM D-3350 FOR MINIMUM CELL CLASSIFICATION OF 335480 C (MINIMUM 2% CARBON BLACK) OR E (COLOR WITH UV STABILIZER). PROPERTIES ARE LISTED BELOW IN TABLE 1.1

TABLE 1-1 Material Requirements			
Cell	Properties	Requirements	Test Method
3	Density	>0.940-0.947	ASTM D 792 or 1505
3	Melt Flow Index (190/2.160)	<0.4-0.15g/10 minutes max	ASTM D 1238
5	Flexural Modulus	110,000 to 160,000 psi	ASTM D 790
4	Tensile Strength at Yield	3000-<3500 psi	ASTM D 638
8	Environmental Stress Crack Resistance	Condition B, F Max, 10% Igepal, 96hrs, minimum	ASTM D 1693
0	Hydrostatic Design Basis	Not Pressure Rated	ASTM D 2837
--	Brittleness Temperature	-75° C	ASTM D 746
--	Elongation	400% minimum	ASTM D 638
C	Class C	Minimum 2% Carbon Black	ASTM D 3350
E	Class E	Colored with UV Stabilizer	ASTM D 3350

**CONDUIT DATA**



P:\CVIN CONSTRUCTION OFF GRANT\3004-MCHENRY AVE BRIDGE REPAIR\AUTOCAD\3004 - MCHENRY AVE BRIDGE.DWG - PLOT DATE: 3/21/2018 2:21 PM - PLOTTED BY: ROBERT BEBB







SUGGESTED ADVANCE WARNING SIGN PLACEMENT

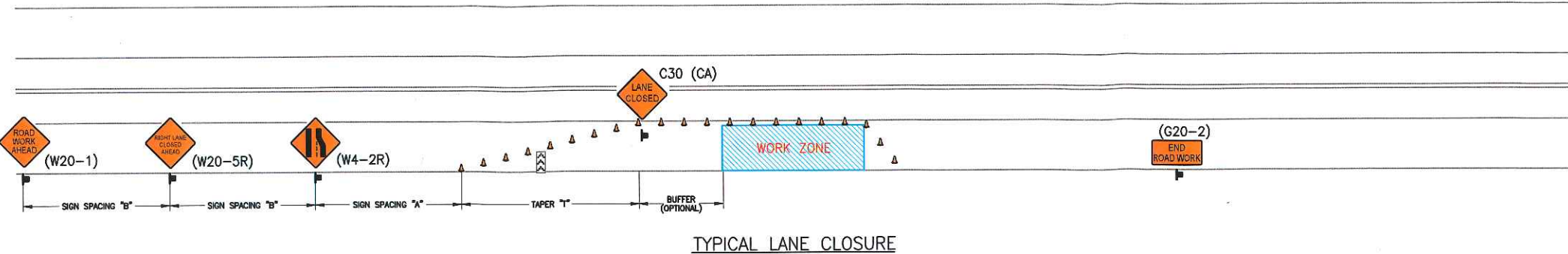
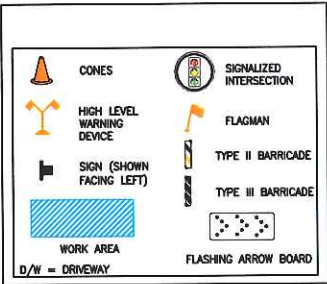
ROAD TYPE	DISTANCE BETWEEN SIGNS**		
	A	B	C
URBAN (LOW SPEED) 25 MPH OR LESS	100	100	100
URBAN (HIGH SPEED) 25 MPH TO 40 MPH	250	250	250
URBAN (HIGH SPEED) 40 MPH OR MORE	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1,000	1,500	2,640

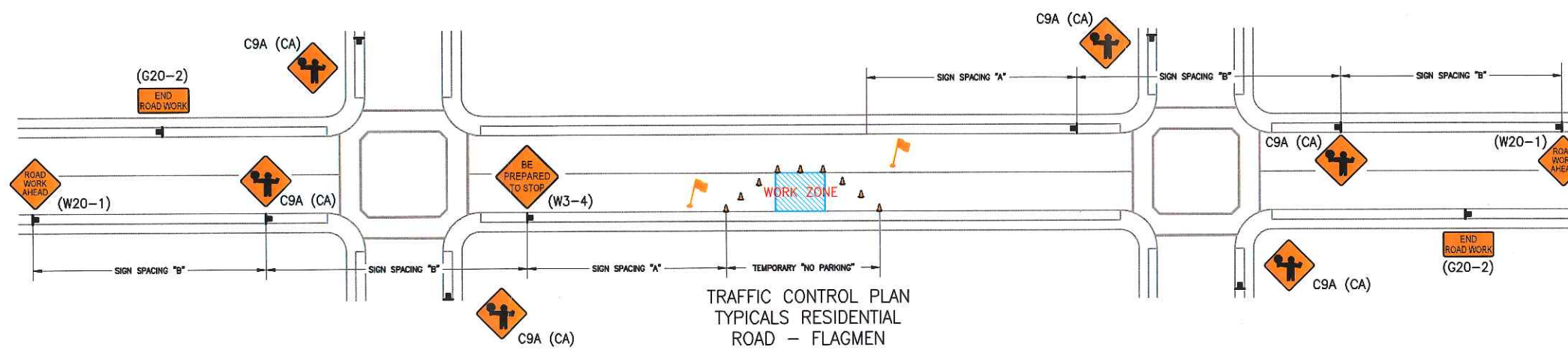
SPEED (MPH)	MINIMUM TAPER LENGTH FOR WIDTH OF OFFSET 12 FT (W)				BUFFER SPACE (FT)
	MERGING (FT)	SHIFTING (FT)	SHOULDER (FT)	DOWN STREAM (FT)	
20	80	40	27	100	115
25	125	63	42	100	155
30	180	90	60	100	200
35	245	123	82	100	250
40	320	160	107	100	305
45	540	270	180	100	360
50	600	300	200	100	425
55	660	330	220	100	495
60	720	360	240	100	570
65	780	390	260	100	645
70	840	420	280	100	820

\* SPEED CATEGORY TO BE DETERMINED BY HIGHWAY AGENCY.

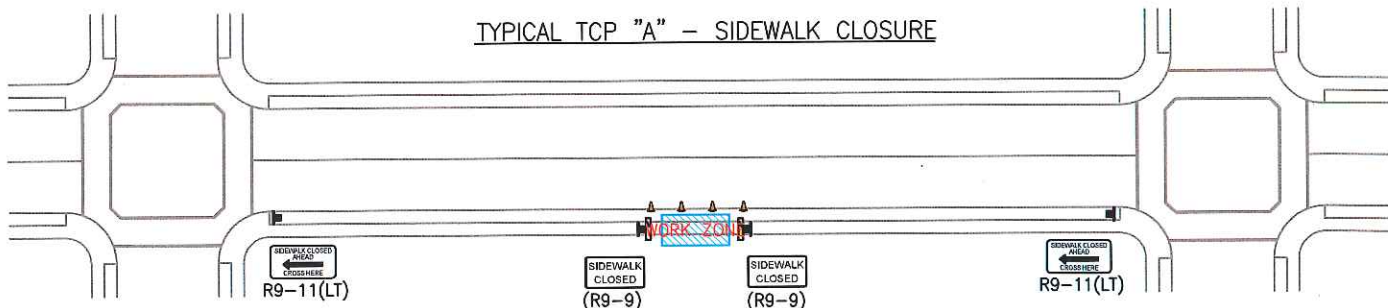
\*\* DISTANCES SHOWN IN FEET. THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS. (THE THIRD SIGN IS THE FIRST ONE IN A THREE-SIGN SERIES ENCOUNTERED BY A DRIVER APPROACHING A TTC ZONE).



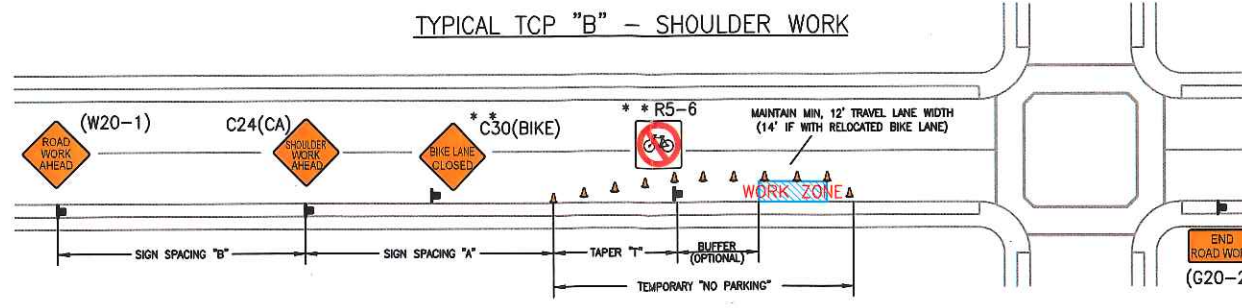
TYPICAL LANE CLOSURE



TRAFFIC CONTROL PLAN  
TYPICALS RESIDENTIAL  
ROAD - FLAGMEN



TYPICAL TCP "A" - SIDEWALK CLOSURE



TYPICAL TCP "B" - SHOULDER WORK

TRAFFIC CONTROL PLAN TYPICALS  
EDGE OF ROAD WORK ZONE

\* \* = BIKE LANE AS REQUIRED

PLAN CONSTRUCTION OFF: GRANT 3304-MCHENRY AVE BRIDGE REPAIR/AUTOCAD 2004 - MCHENRY AVE BRIDGE - PLOT DATE: 3/21/2018 2:21 PM - PLOTTED BY: ROBERT BIEBE

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SAN JOAQUIN COUNTY PERMIT PLANS

INSTALLATION OF FIBER OPTIC CONDUITS FOR MCHENRY BRIDGE RELOCATION

DATE: 3/7/18

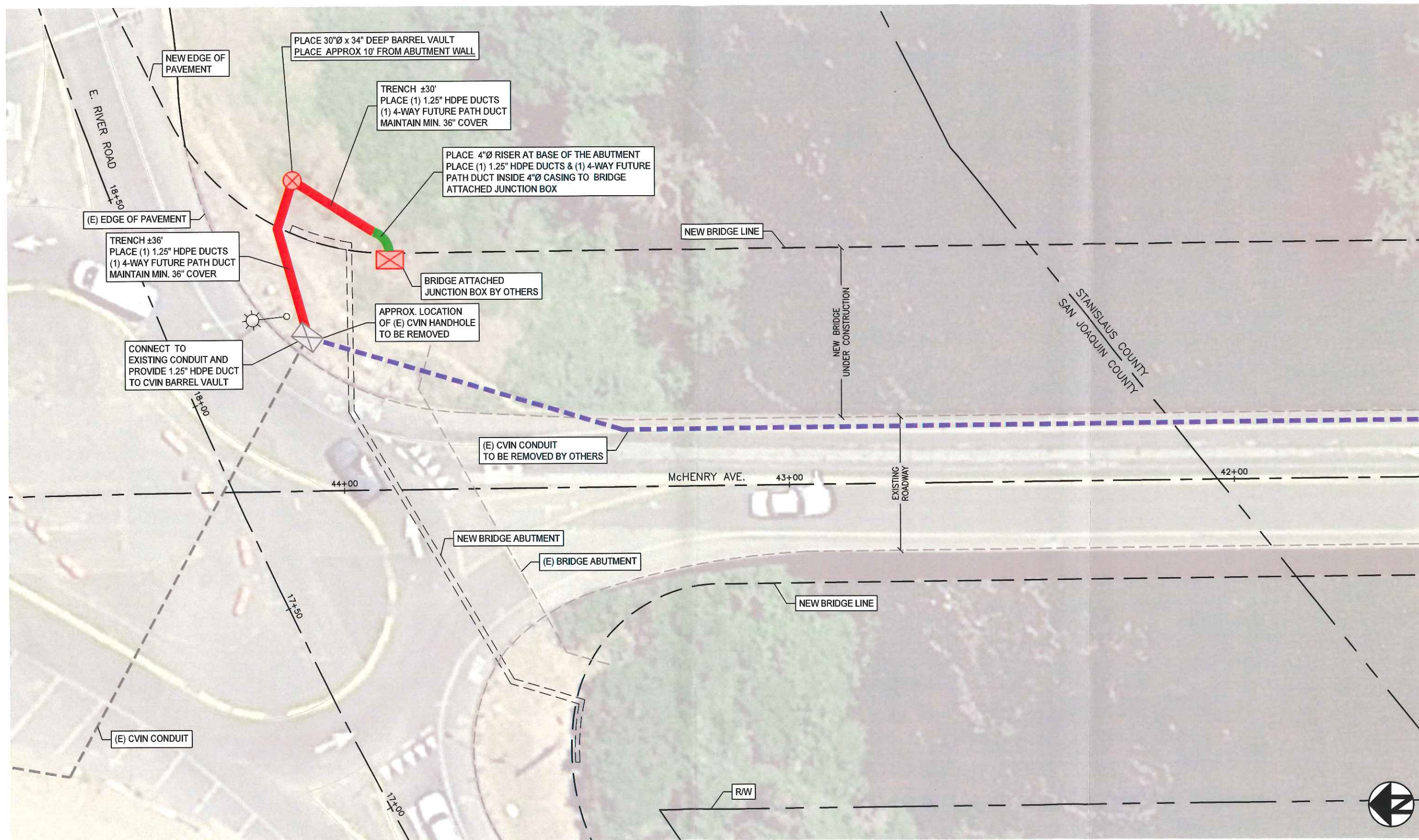
SCALE: -

WORK ORDER: 3004

SHEET: 4 of 5



PACVIN CONSTRUCTION OFF. GRANT\3004-MCHENRY AVE BRIDGE REPAIR\UTOCAD\3004 - MCHENRY AVE BRIDGING - PLOT DATE: 3/21/2018 2:21 PM - PLOTTED BY: ROBERT REEB



SAN JOAQUIN COUNTY PERMIT PLANS

INSTALLATION OF FIBER OPTIC CONDUITS FOR  
McHENRY BRIDGE RELOCATION

DATE:	3/7/18	WORK ORDER:	3004
SCALE:	1" = 20'	SHEET:	5 OF 5