



# 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-1802794  
Date Issued: 06/18/2019  
Start Date: 08/05/2019  
Exp. Date: 12/31/2019  
Project No: PWP790107  
Quad: NW

## ENCROACHMENT PERMIT

To: LENZI LANTZ DEVELOPMENT, LLC  
847 N. CLUFF AVE., STE B1  
LODI, CA 95240

### Encroachment Type:

Collier Road	Improvements		
--------------	--------------	--	--

### Location:

S/S OF COLLIER RD. 1500' W/O ST. RTE. 99

In compliance with your request of **08/01/2018**, 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:


Magnolia Lane Development

FORMS: SS/WW, R-29

Est. Permit Fee: \$17,688.00

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, 3359, 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  
MAGNOLIA LANE SUBDIVISION  
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, two-way traffic control shall be maintained with one lane open and appropriate flaggers. The contractor shall submit traffic control plans for all signing, detours, and any lane closure impacting County right-of-way. Traffic control plans shall be submitted two weeks prior to the closure date.
2. 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.
3. Residents and businesses shall be notified in writing, as approved by the County, 48 hours in advance of any impacts to their access.
4. Any areas where parking is to be restricted shall have signs noting the restrictions in place at least 48 hours in advance.
5. School Buses shall be passed through the work zone with minimal delays.
6. 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.
7. 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)
8. Trenches shall be maintained in a smooth and even condition to the satisfaction of the County throughout the project limits at all times.
9. 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.
10. 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.

11. Collier Road subject to pavement cuts shall receive a Type II slurry seal for half of the roadway width as per San Joaquin County Department of Public Works Improvement Standards Section 2-5.0 Trench Cut Policy. Shoulder areas shall be brought up to the finish grade as directed by the County.
12. No paving joints are allowed within paved shoulder; contractor shall pave all the way to outer edge of paved shoulder.
13. Class II Aggregate Base shoulder backing is required from the edge of pavement, a minimum of 4-inches thick by 4-feet wide.
14. Contractor shall establish existing roadway and drainage grades within the construction area. Any repair to roadways and adjacent areas shall match existing grades. Any proposed grade changes shall receive prior approval from County.
15. 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.
16. 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.
17. 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, and as determined to be necessary by County inspectors, street sweeping using a modern mechanical or vacuum-assisted street sweeper.
18. The contractor shall not conduct construction operations in rain or heavy fog conditions.



# APPLICATION FOR ENCROACHMENT PERMIT

## PLEASE PRINT:

Date July 16, 2018

To: San Joaquin County  
Department of Public Works

Dillon & Murphy, c/o Joe Murphy  
(Applicant Name)

PO Box 2180  
(Mailing Address)

Lodi, CA 95241  
(City, State, Zip Code)

209-334-6613  
(Area Code - Telephone Number)

OFFICE USE ONLY			
JOB #	<u>790107</u>	REF #	<u>PS-1802794</u>
APN		CR #	
EXP. DATE			
VALID	<u>6/18/19</u>	TO	
STREET	<u>COLLIER RD.</u>		DRIVEWAYS:
AREA	<u>ACAMPO</u>	QUAD	<u>NW</u>
TYPE	<u>IMPROVEMENTS</u>		
FORMS	<u>S/WW, R-29, Trench Cut</u>		
NOTES	<u>* IMPROVEMENTS FOR PA-1700166(SU)</u>		
	<u>Special Conditions</u>		

Sketch (Detailed plans may be submitted)

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the South side of Collier Road approximately 660 feet mile of San Joaquin County, California, by performing the following work (description of work):  
Road widening, striping and the installation of a new driveway.

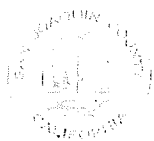
Work will commence on or about August (Estimated) for approximately 30 days.

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.

Joe Murphy  
Signature of Applicant - Title

7-18-18  
Date





**SAN JOAQUIN**  
—COUNTY—  
*Greatness grows here.*



**Department of Public Works**

Kris Balaji, Director of Public Works

Fritz Buchman, Deputy Director/Development

Michael Selling, Deputy Director/Engineering

Jim Stone, Deputy Director/Operations

Kristi Rhea, Manager of Strategic Initiatives

**Acknowledgement of Monument Preservation**

I, Joe Murphy, a duly Licensed Land Surveyor or a Professional Engineer  
(Please print)

authorized to perform Land Surveying in the State of California, Registration No. 7269,

hereby acknowledge and accept all responsibility for the monument preservation as required

per Section 8771(a-f) of the Business and Professions Code within the bounds of the

construction activity permitted by San Joaquin County Permit No. PS-1802794.

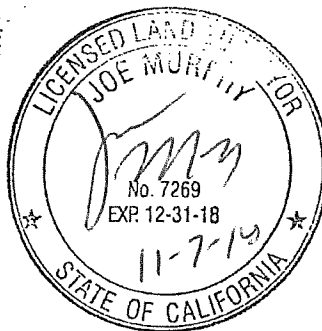
I further acknowledge that I am hereby responsible for the Acknowledgement of Monument

Preservation prior to final acceptance of the construction activity.

Signature

Date

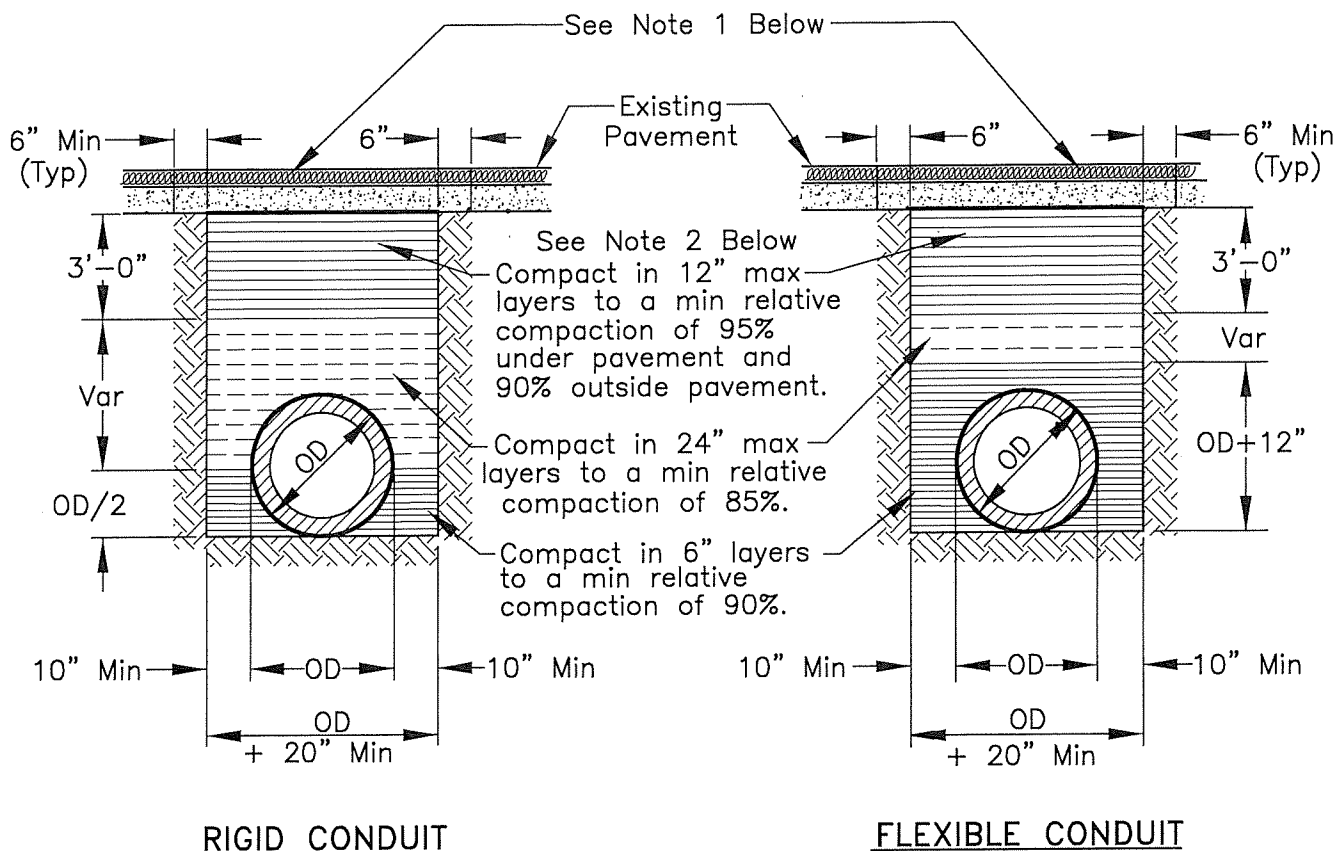
Seal



PS-MONUMENT PRESERVATION

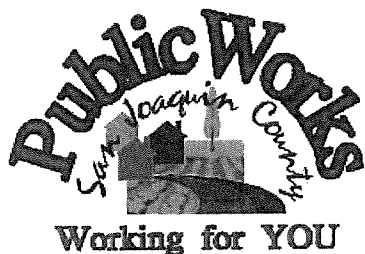






#### NOTES:

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

Date: DEC 2014

Approved by:

*Thomas M. Hall*

No.	Revision	Description	Date

Std. Dwg. No.

**R-29**



## 2-5.0 TRENCH CUT POLICY

### 2-5.01 General Requirements

- A. Resurfacing requirements specified in this policy are in addition to the trench resurfacing requirements specified by County Standard Drawing No. R-29.
- B. For the purpose of this policy, "Surfacing Age" is defined as the age of the most recently completed roadway surfacing, including construction, reconstruction, or major overlay.
- C. Where the application of seal coats is required, a Type II Slurry Seal will be used in accordance with State Standard Specifications, Section 37-2.
- D. The permittee must post a one-year maintenance bond or cash deposit, in an amount specified by the Department.
- E. All pavement markings destroyed or obliterated must be replaced in kind by the permittee. Typical pavement markings include, but are not limited to, lane lines, centerlines, stop and stop ahead legends, limit lines, raised pavement markers, and miscellaneous delineators.
- F. The permittee is responsible for Survey Monuments disturbed by trenching and is required to file a corner record and to reestablish them using a Licensed Land Surveyor after the trench restoration is completed.
- G. Functional classification maps and Public Works Project Advertising Schedules are references for this policy.
- H. To facilitate scheduling and planning, Public Works staff will make available the most current Project Advertising Schedule at the monthly Utility Coordination Meeting and make it available to the public, at the Permits Counter, in January each year.

### 2-5.02 Collectors, Arterials and Expressways

- A. Surfacing Age less than Three (3) Years: No pavement cuts. Exceptions may be approved in accordance with Section 2-5.04 EXCEPTIONS.
- B. Surfacing Age Three (3) Years and Over:
  - 1. Longitudinal Trench Cutting in Paved Shoulder

Areas:

The entire shoulder of the road is to be resurfaced. The existing surfacing adjacent to the trenched area shall be planed to accommodate the overlay in a manner that does not cause drainage concerns. The nearest pavement cut shall be a minimum of three (3) feet from the edge of pavement, or the remaining pavement shall also be removed and replaced. (See County Standard Drawing No. R-37).

2. Longitudinal Trenches within Traveled Lanes:

The entire traveled lane where the trench is located is to be resurfaced with a one (1) inch asphalt concrete overlay. The existing surfacing adjacent to the trenched area shall be planed to accommodate the overlay in a manner that does not cause drainage concerns. The overlay shall be in accordance with State Standard Specifications, Section 39. Aggregate gradation shall be consistent with the existing surfacing material. (See County Standard Drawing No. R-37).

3. Cross-Cutting:

Cross-cutting is allowed at a minimum interval of 150 feet. At each cross-cut location a minimum of ten (10) feet on each side of trench shall be planed and resurfaced with one (1) inch asphalt concrete. If cross cuts are within the 150 feet minimum interval, the entire section between the first and last cross cut shall be planed and resurfaced with one (1) inch asphalt concrete. (See County Standard Drawing No. R-36).

4. The conditions described in paragraphs 1, 2 and 3 above will not apply if resurfacing is scheduled within two years.

~~2-5.03~~ Local Roads

- A. Surfacing Age Under Three (3) years: No pavement cuts allowed. Exceptions may be approved in accordance with Section 2-5.04 EXCEPTIONS.

~~B.~~ Surfacing Age Three (3) to Five (5) Years:

1. Longitudinal cuts are permitted. A seal coat is required for that half of the roadway containing the trench. (See County Standard Drawing No. R-37).



2. Cross-cutting is allowed under the same conditions as Section 2-5.02(B)(3). If cross-cuts occur within the 150 feet minimum interval, resurfacing may be substituted with a slurry seal for that half of the roadway. (See County Standard Drawing No. R-36).

#### 2-5.04 Exceptions

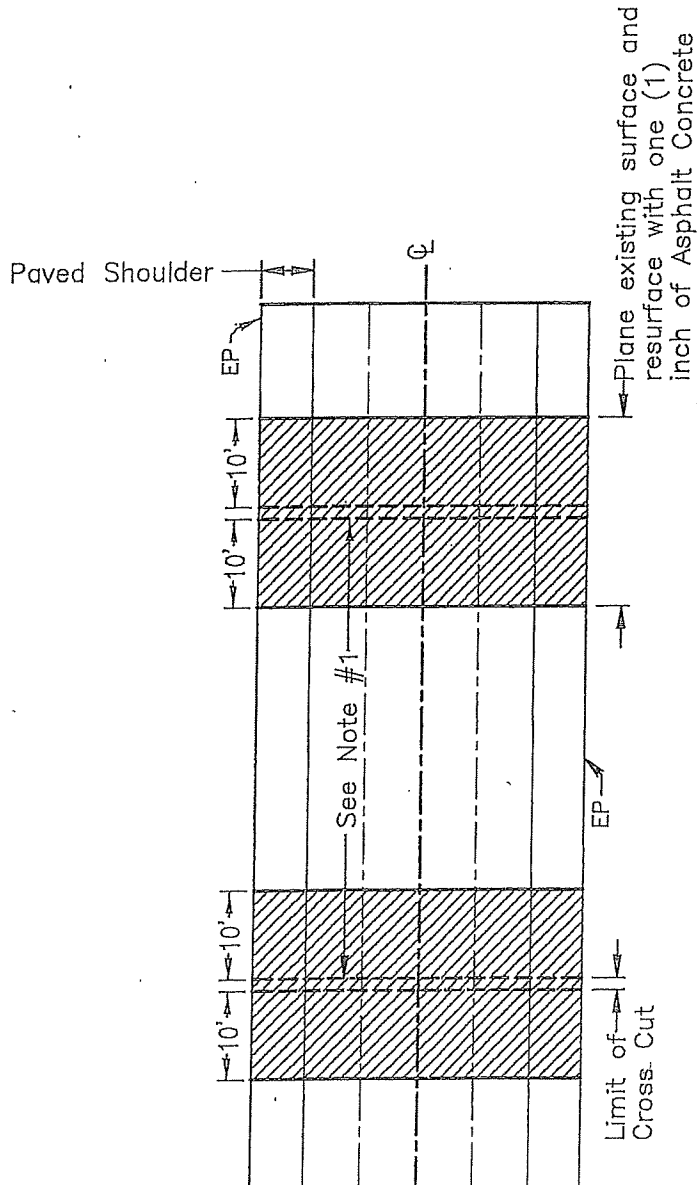
Excavation is prohibited in newly renovated County roadways for three (3) years after a notice of completion has been filed for a roadway improvement project, or a new roadway has been accepted. The Director of Public Works may approve exceptions that are in the best interest of the public, including but not limited to:

- A. An emergency that endangers life or property.
- B. For repair or modification to prevent interruption of essential utility service.
- C. For relocation work that is mandated by County, State or Federal law.
- D. For service for buildings where no other reasonable means of providing service exists.
- E. For potholing to verify utility depth or location.
- F. For trenchless excavations greater than three feet in depth of cover over the utility facility, and not requiring a significant surface incision greater than industry bore pit standards.

Exceptions must be requested and submitted in writing to the Department. Payment of a nonrefundable processing fee is also required. Exceptions will be reviewed using the Departments Action Approval process, which requires the recommendation of a Deputy Director.

**NOTES:**

1. If the distance between cross-cuts are less then 150' the entire area between corss-cuts shall be planed and resurfaced with one (1) inch of Asphalt Concrete.
2. The resurfacing requirements shall be in addition to County Standard Drawing No. R-29.
3. Resurfacing for Bell Holes shall meet these requirements. If excavation occurs within the shoulder or lane, only that area shall be resurfaced as shown.
4. If cross-cutting is performed on Local Roads at intervals less then 150' a Seal Coat for that half of the roadway containing the trench can be used in lieu of resurfacing. Section 2-5.03 (B-2).



**TRENCH CUTTING POLICY  
CROSS CUTTING OF  
COUNTY ROADWAYS**

**COUNTY OF SAN JOAQUIN**  
DEPARTMENT OF PUBLIC WORKS

Date: MAY 2015

Approved by:

*Michael Selby*

No.	Revision	Description	Date

Std. Dwg. No.

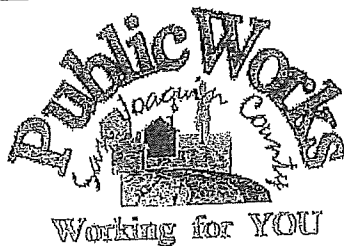
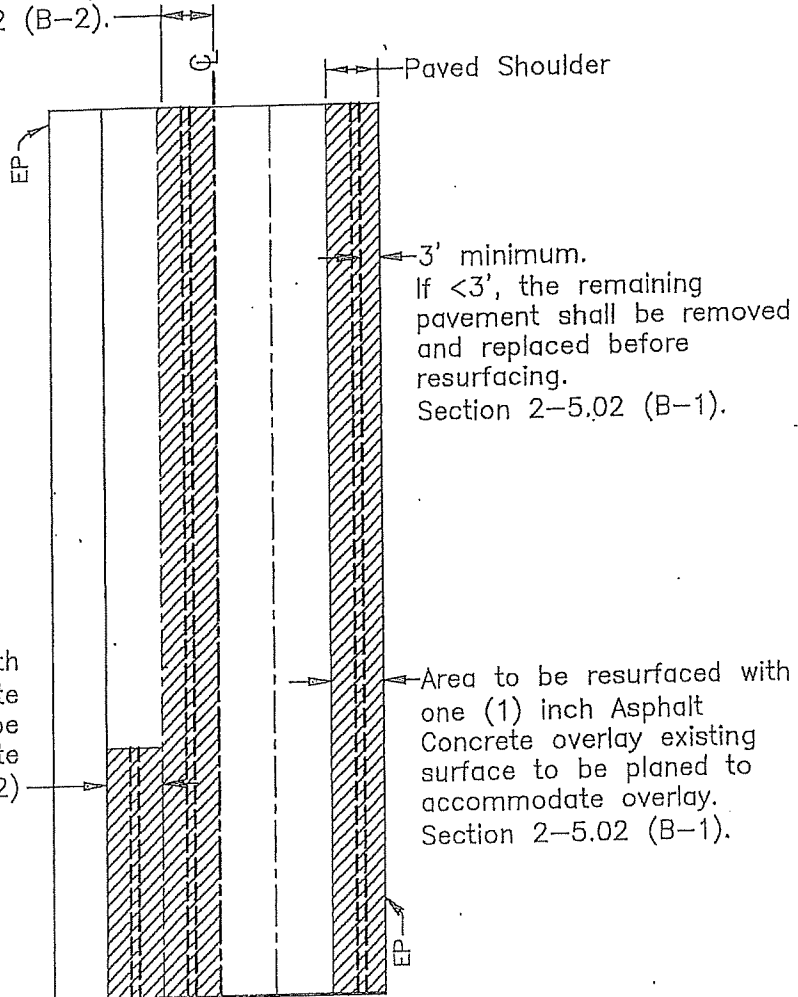
**R-36**

**NOTES:**

1. The resurfacing requirements shall be in addition to County Standard Drawing No. R-29.
2. If longitudinal cuts are required on a Local Road a Seal Coat can be used for that half of the roadway containing the trench. Section 2-5.03 (B-1).

Area to be resurfaced with one (1) inch Asphalt Concrete overlay existing surface to be planed, to accommodate overlay. Section 2-5.02 (B-2).

Area to be resurfaced with one (1) inch Asphalt Concrete overlay existing surface to be planed to accommodate overlay. Section 2-5.02 (B-2).



**TRENCH CUTTING POLICY  
LONGITUDINAL CUTTING  
OF COUNTY ROADWAYS**

**COUNTY OF SAN JOAQUIN**  
DEPARTMENT OF PUBLIC WORKS

Date: MAY 2015

Approved by:

*Michael Selby*

No.	Revision	Description	Date

Std. Dwg. No.

**R-37**





## 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, 3359, 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 PROVISIONS

### Winter Weather Utility Work

---

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.





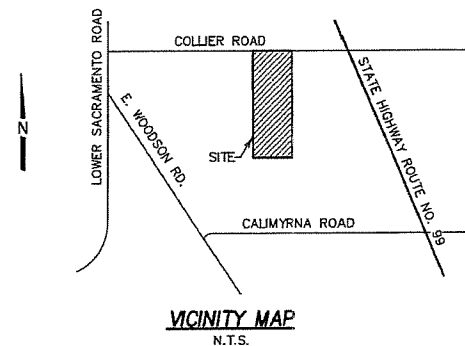
OFF-SITE IMPROVEMENT PLANS FOR

# MAGNOLIA PLACE SUBDIVISION

3222 E. COLLIER RD.  
ACAMPO, CALIFORNIA

## GENERAL NOTES

- ALL WORK SHALL CONFORM TO SAN JOAQUIN COUNTY (S.J.C.) AND CALTRANS STANDARD PLANS.
- CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY FOR 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 HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- THE EXISTING UNDERGROUND UTILITIES SHOWN WERE PLOTTED FROM EXISTING AVAILABLE RECORDS OBTAINED FROM THE UTILITY COMPANIES. NEITHER THE OWNER NOR THE ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY OF SUCH RECORDS AND DO NOT GUARANTEE THAT ALL UNDERGROUND FACILITIES ARE LOCATED PRECISELY AS SHOWN. PRIOR TO BEGINNING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN FROM ALL UTILITY COMPANIES THE FIELD LOCATION OF THEIR UNDERGROUND FACILITIES. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 72 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION.
- EXCAVATION SAFETY REQUIREMENTS INCLUDE SUBMITTING A CAL OSHA PERMIT OR LETTER OF NOTIFICATION TO THE COUNTY BEFORE EXCAVATION OF OVER FIVE FEET DEEP. REFER TO COUNTY CONSTRUCTION SPECIFICATIONS SEC. 5 ALTERNATIVE A "TRENCH AND EXCAVATION SAFETY PROTECTION SYSTEM" FOR ADDITIONAL REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING FROM DAMAGE ALL EXISTING IMPROVEMENTS THAT ARE TO REMAIN. SUCH IMPROVEMENTS THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE IN THE FIELD THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) 48 HOURS IN ADVANCE OF ANY EXCAVATION WORK BY CALLING 800-227-2600.
- PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL PERFORM THE NECESSARY EARTHWORK CALCULATIONS TO DETERMINE THE AMOUNT OF CUT AND FILL AND RESULTANT EXCESS OR SHORTAGE OF DIRT ON SITE, AND NOTIFY THE CIVIL ENGINEER OF THE RESULTS. THIS MAY NOT BE A BALANCED SITE.
- APPROPRIATE DUST CONTROL IS TO BE PROVIDED FOR THE ALLEVATION OR PREVENTION OF A DUST NUISANCE AT THE CONTRACTOR'S EXPENSE.
- ALL CONSTRUCTION STAKING SHALL BE DONE BY DILLON & MURPHY. STAKING BY OTHERS SHALL BE AT THEIR OWN RISK AND DILLON & MURPHY IS NOT RESPONSIBLE FOR FIELD CHANGES.
- THE CONTRACTOR SHALL GIVE THE CIVIL ENGINEER A MINIMUM OF 2 WORKING DAYS NOTIFICATION PRIOR TO ANY AND ALL STAKING.
- IT IS THE INTENT OF DEVELOPER TO HAVE THE SUCCESSFUL BIDDER PREPARE THEIR BID ANTICIPATING THAT THEY WILL BE PROVIDING A COMPLETE JOB AS SHOWN ON THE PLANS AND DESCRIBED IN THE SPECIFICATIONS.
- DILLON & MURPHY, CONSULTING CIVIL ENGINEERS WILL NOT PROVIDE ELECTRONIC FILES OR VERTICAL AND HORIZONTAL CONTROL POINTS TO BE USED IN PREPARATION OF "GPS STAKING MODELS" OR FOR USE IN "GPS CONSTRUCTION STAKING" ACTIVITIES TO ANY INDIVIDUAL OR COMPANY WHO IS NOT LICENSED IN THE STATE OF CALIFORNIA TO PRACTICE CIVIL ENGINEERING AND/OR PROFESSIONAL LAND SURVEYING.
- ALL MANHOLE RIMS, DROP INLET GRATES, SANITARY SEWER CLEANOUTS, WATER VALVE BOXES, SURVEY MONUMENT BOXES AND MISCELLANEOUS UTILITY BOXES SHALL BE ADJUSTED TO FINISH GRADE TO MATCH THE CROSS SLOPE.
- ALL STRIPING AND MARKINGS SHALL CONFORM TO THE LATEST MUTCD STANDARDS, S.J.C. STANDARDS AND/OR CALTRANS STANDARD SPECIFICATIONS SECTION 84 "TRAFFIC STRIPES AND PAVEMENT MARKINGS" AND SHALL BE THERMOPLASTIC.
- TRAFFIC CONTROL SHALL BE MAINTAINED FOR THE DURATION OF CONSTRUCTION PER THE PROJECT SPECIFICATIONS.
- SEE SOILS REPORT BY RANNEY GEOTECHNICAL INC. NO. 4147-008 DATED JULY 6, 2018 FOR ADDITIONAL INFORMATION.
- PROJECT WOID NO. XXXX-XXXX.
- LANDSCAPE PLAN TO BE DONE BY OTHERS, NOT PART OF THIS PLAN SET. LANDSCAPE SHALL ADHERE TO S.J.C. DEVELOPMENT TITLE SECTION 9-1020.4
- LIGHTING PLAN TO BE DONE BY OTHERS, NOT PART OF THIS PLAN SET.
- FLOOD ZONE: ZONE X, MAP NO. 06077C0160G; PANEL NO. 060299-0160 G, DATED OCTOBER 20, 2016.



## SCOPE OF WORK

- THIS SUBMITTAL CONSISTS OF ROADWORK (PAVING, INCLUDING BASE AND COMPACTION), DITCHES, PRIVATE DRIVEWAY AND UTILITY ADJUSTMENT.

## INDEX OF SHEETS

SHEET NUMBER	SHEET NAME
1	TITLE SHEET
2	E. COLLIER ROAD STA. 10+00 TO STA. 16+66
3	CROSS-SECTION
4	STRIPING AND SIGNAGE PLAN

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTIONS AND COMPLETION OF THE PROJECT, AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS AND CONDITIONS OF ALL PERMITS AND APPROVALS APPLICABLE TO THIS PROJECT. THE CONTRACTOR SHALL ENSURE THAT THE NECESSARY RIGHT-OF-WAY, EASEMENTS, AND/OR PERMITS ARE SECURED PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT WHERE APPLICABLE FOR ANY WORK DONE WITHIN RIGHT-OF-WAY OR EASEMENTS FROM COUNTY OF SAN JOAQUIN. CONTRACTOR SHALL NOTIFY COUNTY, TWO WORKING DAYS IN ADVANCE OF COMMENCING THE WORK OR AS REQUIRED BY SAID PERMITS.
- ALL STATIONS REFER TO DISTANCES ALONG STREET CENTERLINE. UNLESS OTHERWISE NOTED, ALL STATIONS OFF CENTERLINE ARE PERPENDICULAR TO OR RADIALLY OPPOSITE CENTERLINE STATIONS.
- THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, BARRICADES, SIGNS, FLAGGERS OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.
- CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL AND/OR DETOUR PLAN FOR APPROVAL BY SAN JOAQUIN COUNTY PUBLIC WORKS, AT LEAST TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER AND THE COUNTY ENGINEER.
- DUST CONTROL SHALL BE PROVIDED AT ALL TIMES, AT THE CONTRACTOR'S EXPENSE, TO MINIMIZE DUST NUISANCE AND SHALL BE IN ACCORDANCE WITH SECTION 10 OF CALTRANS STANDARD SPECIFICATIONS AND THE REQUIREMENTS OF THE COUNTY OF SAN JOAQUIN. CONTRACTOR SHALL OBTAIN A PERMIT FROM CALIFORNIA WATER SERVICE COMPANY FOR USE OF WATER FROM FIRE HYDRANTS FOR CONSTRUCTION PURPOSES.
- WHENEVER EXISTING FACILITIES ARE REMOVED, DAMAGED, BROKEN, OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE PLANS OR SPECIFICATIONS, SAID FACILITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE, AFTER PROPER BACKFILLING AND/OR CONSTRUCTION, WITH MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL EXISTING FACILITIES. THE FINISHED PRODUCT SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER, THE ENGINEER, AND THE RESPECTIVE REGULATORY AGENCY.
- THE CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE AS-BUILT RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL MECHANICAL, ELECTRICAL AND INSTRUMENTATION EQUIPMENT; PIPING AND CONDUITS; STRUCTURES AND OTHER FACILITIES. THE AS-BUILTS OF THE ELECTRICAL SYSTEM SHALL INCLUDE THE STREET LIGHT LAYOUT PLAN SHOWN LOCATION OF LIGHTS, CONDUITS, CONDUCTORS, POINTS OF CONNECTIONS TO SERVICES, PULLBOXES, AND WIRE SIZES. AS-BUILT RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED, WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR. PRIOR TO ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO THE ENGINEER, ONE SET OF NEATLY MARKED AS-BUILT RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. AS-BUILT RECORD DRAWINGS SHALL BE REVIEWED AND THE COMPLETE AS-BUILT RECORD DRAWING SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS A PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE.

- THIS SUBDIVISION WILL NOT BE SUBMITTED TO THE COUNTY FOR ACCEPTANCE OF IMPROVEMENTS UNTIL ALL STREET LIGHTS ARE INSTALLED AND ENERGIZED. COMPLETE AS-BUILT PLANS ARE ALSO REQUIRED PRIOR TO INSPECTION.
- THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKERS FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 5' OR MORE. EXCAVATION OF 5 FEET OR MORE IN DEPTH WILL REQUIRE AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY FOR TRENCHES 5 FEET OR MORE IN DEPTH. THE CONTRACTOR SHALL COMPLY WITH SECTION 5-1.02A OF THE CALTRANS STANDARDS, SECTION 6705 OF THE STATE OF CALIFORNIA LABOR CODE, AND ANY LOCAL CODES OR ORDINANCES.
- THE PROPERTY OWNERS, DEVELOPERS, AND/OR SUCCESSORS IN INTEREST SHALL COMPLY WITH THE PROVISIONS OF THE CALIFORNIA GENERAL CONSTRUCTION ACTIVITY STORM WATER PERMIT AND STATE WATER RESOURCES CONTROL BOARD ORDER NUMBER 2009-0009-DWQ
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO FULFILL ANY STORM WATER POLLUTION PREVENTION PLAN AND BEST MANAGEMENT PRACTICES REQUIREMENTS.
- THE PROJECT SHALL COMPLY WITH SECTION 1.215 OF SAN JOAQUIN COUNTY IMPROVEMENT STANDARDS. FINAL PAVEMENT WORK SHALL NOT OCCUR WITHIN THE ROAD RIGHT-OF-WAY PRIOR TO COMPLETION OF UTILITY RELOCATION WITHOUT SPECIFIC APPROVAL OF THE DIRECTOR.
- PROJECT DEVELOPER: LENZI LANTZ  
PHONE NUMBER: (209) 224-5950  
DEVELOPERS ADDRESS: 847 N. CLUFF AVE., SUITE B-1  
LODI, CA. 95240
- PROJECT ENGINEER: DILLON & MURPHY ENGINEERING  
PHONE NUMBER: (209)334-6613  
ENGINEER'S ADDRESS: P.O. BOX 2180  
LODI, CA. 95241-2180

COUNTY OF SAN JOAQUIN DEPARTMENT OF PUBLIC WORKS	
APPROVED AS AN "ENCROACHMENT PERMIT PLAN SET" APPROVED FOR WORK WITHIN COUNTY RIGHT-OF-WAY ONLY.	
ACCEPTED: <i>Alex Chetley</i>	DATE: 11/9/18
RCE NO.: 77A07	EXP DATE: 12/31/18
ENCROACHMENT PERMIT NO. PS-1802794	DATED ISSUED: 11/9/18 BY: CRH



<b>BENCHMARK INFORMATION:</b>	
BENCH MARK: UT-06.3	EL: 52.917
DESCRIPTION: *H795 ON W GUARD-RAIL ON SPRR OVERPASS.	
DATUM: NGVD 29	



<b>DILLON &amp; MURPHY</b> CONSULTING CIVIL ENGINEERS ENGINEERING • PLANNING • SURVEYING 847 N. CLUFF AVENUE, SUITE A2, LODI, CALIFORNIA 95240 (209) 334-6613	
<b>MAGNOLIA PLACE SUBDIVISION</b> OFF-SITE IMPROVEMENT PLANS	
TITLE SHEET	
SAN JOAQUIN COUNTY, CALIFORNIA SEPTEMBER, 2018	
REV. NO.	DESCRIPTION
DATE	SCALE: N/A
	DRAWN BY: CP
	DESIGNED BY:
	CHECKED BY: JM
	AS BUILT BY:
SHEET 1 OF 4 SHEETS JOB NO. 1770	



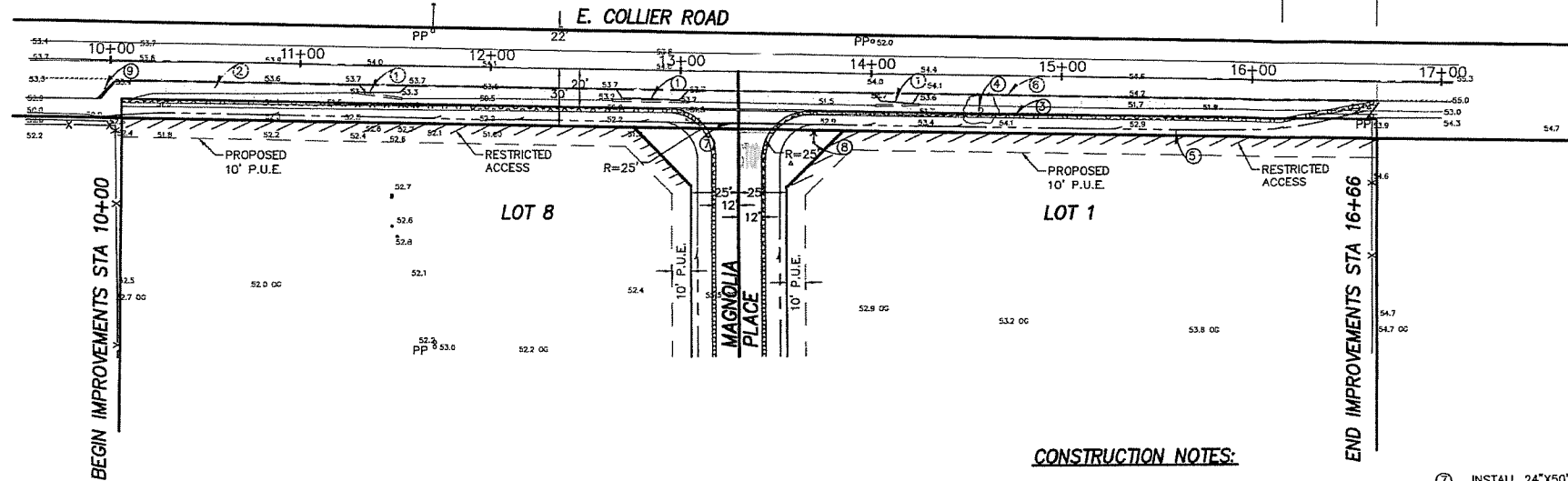
# PAVEMENT DESIGN CHART

STREET	TI	AC (MIN)	AB (MIN)	SUBGRADE (MIN)	TOTAL THICKNESS
COLLIER ROAD	6.5	3.0"	14.5"	8"	25.5"
MAGNOLIA PLACE	5.0	3.0"	8.5"	8"	19.5"

STA. 12+94 BEGIN CURVE  
STA. 13+19.37 END CURVE  
STA. 13+30 COLLIER RD. = STA. 100+00 MAGNOLIA PLACE  
STA. 13+43.21 BEGIN CURVE  
STA. 13+67 END CURVE

STA. 16+10 BEGIN TAPER

STA. 16+60 END PAVING



## LEGEND

AC	ASPHALT CONCRETE	EX. FENCE	—X—X—X—
CL	CENTERLINE	FLOW LINE	— — — — —
CM	CORRUGATED METAL PIPE	EX. TREE	⊙
EP	EDGE OF PAVEMENT	BOUNDARY LINE	— — — — —
FL	FLOW LINE	GUY WIRE	— — — — —
EX	EXISTING	PP	•
GM	GAS METER	PROPOSED ASPHALT CONCRETE	□
PP	POWER POLE	PROPOSED AGGREGATE BASE	□
R/W	RIGHT-OF-WAY		
STD.	STANDARD		
EX. PAVEMENT			
EX. AGGREGATE BASE			

## CONSTRUCTION NOTES:

- REMOVE EXISTING CULVERTS AND DRIVEWAY.
- INSTALL 3.0" AC OVER 14.5" CLASS II AB OVER 8" COMPACTED SUBGRADE @ 95% RC. SEE PAVING SECTION BELOW.
- INSTALL 2' WIDE SHOULDER, SEE STD. SECTION THIS SHEET.
- REMOVE EXISTING TREE.
- INSTALL DITCH PER STD. STREET SECTION, SEE DETAIL THIS SHEET.
- SAWCUT LINE.

- INSTALL 24"x50' CMP
- INSTALL LIGHT POLE PER S.J.C. STD. PLAN R-32. LOCATION TO BE FIELD ADJUSTED AS NECESSARY.
- REMOVE EXISTING BARRIER & MATCH EX. PAVEMENT SECTION.

E. COLLIER ROAD  
STA. 10+00 TO STA. 16+66

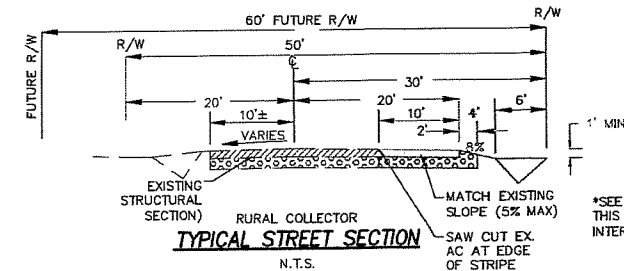
SCALE:  
HORIZ: 1" = 40'  
VERT: 1" = 2'

1. ALL PAVING WORK MUST CONFORM TO THE CALTRANS STANDARD SPECIFICATIONS SECTION 39. HOT MIX ASPHALT(HMA) SHALL BE TYPE A. ASPHALT BINDER USED IN HMA MUST BE PG 64-10 AND AGGREGATE MUST COMPLY WITH THE 1/2 - INCH HMA TYPE A GRADATION TABLE. ASPHALT PLACEMENT SHALL CONFORM TO THE FOLLOWING SCHEDULE.

TOTAL THICKNESS SHOWN ON PLANS	NO. OF LAYERS	TOP LAYER THICKNESS (FOOT)		NEXT LOWER LAYER THICKNESS(FOOT)		ALL OTHER LOWER LAYER THICKNESS(FOOT)	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
0.20-FOOT OR LESS	1	-	-	-	-	-	-
0.25 foot	2	0.1200	0.1300	0.1200	0.1300	-	-
0.30-0.45 foot	2	0.1500	0.2000	0.1500	0.2500	-	-
0.45-foot or more	8	0.1500	0.2000	0.1500	0.2500	0.1500	0.4000

- A. WHEN GEOSYNTHETIC PAVEMENT INTERLAYER(PAVING FABRIC), MAT OR GRID IS SHOWN TO BE PLACED BETWEEN LAYERS OF HMA, THE THICKNESS OF HMA ABOVE THE GEOSYNTHETIC PAVEMENT INTERLAYER(PAVING FABRIC) MUST BE CONSIDERED TO BE THE "TOTAL THICKNESS SHOWN ON PLANS" FOR THE PURPOSE OF SPREADING AND COMPACTING THE HMA ABOVE THE GEOSYNTHETIC PAVEMENT INTERLAYER(PAVING FABRIC). THE MINIMUM LIFT THICKNESS OF HMA OVER GEOSYNTHETIC PAVEMENT INTERLAYER(PAVING FABRIC), MAT OR GRID MUST BE 0.12 FOOT.
- B. AT LEAST 2 LAYERS MUST BE PLACED IF TOTAL THICKNESS IS 0.45-FOOT. AT LEAST 3 LAYERS MUST BE PLACED IF TOTAL THICKNESS IS MORE THAN 0.45-FOOT AND LESS THAN 0.90-FOOT. AT LEAST 4 LAYERS MUST BE PLACED IF TOTAL THICKNESS IS 0.90-FOOT OR MORE. FOR THE MISCELLANEOUS AREAS OR PAVEMENT REPAIR, AT LEAST 2 LAYERS MUST BE PLACED IF THE TOTAL THICKNESS IS 0.50-FOOT.

2. AGGREGATE BASE AND SHOULDERS MUST BE CLASS 2 MEETING THE 3/4" MAXIMUM AGGREGATE GRADING. COMPACT EACH LAYER TO AT LEAST 95 PERCENT RELATIVE COMPACTION

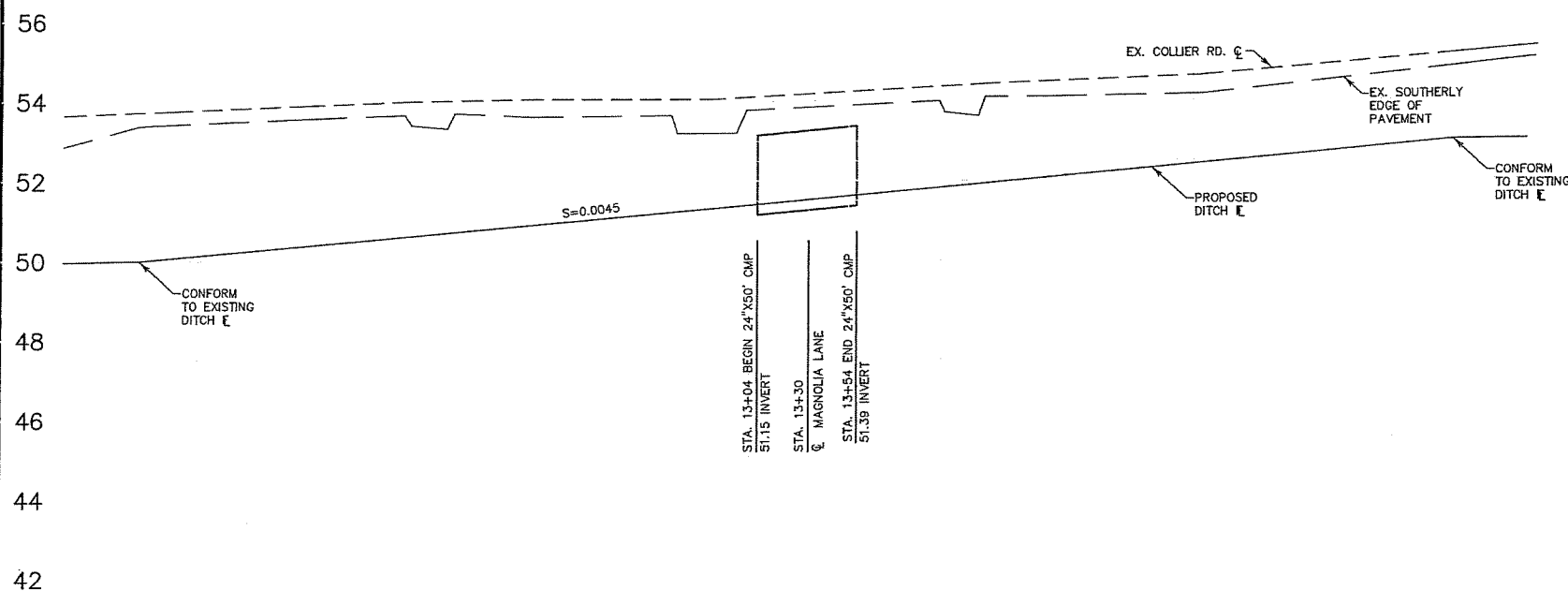


## NOTES:

- A 2' (WIDE) 2" DEEP GRIND SHALL BE PLACED ALONG THE ENTIRE LINE LENGTH OF THE PROPOSED AC B' FROM THE ROAD CENTERLINE, THEN REPAVING 2".
- IN LIEU OF AN HIGH PRESSURE SODIUM LIGHT, AN L.E.D. EQUIVALENT (AUTOBAHN SERIES AT80) SHALL BE USED FOR THE PROPOSED LIGHT POLE. L.E.D. EQUIVALENT SHALL MEET THE REQUIREMENTS ON COUNTY IMPROVEMENT STANDARD R-33 FOR RESIDENTIAL STREET CLASSIFICATION; AVERAGE MAINTAINED FOOTCANDLE OUTPUT SHALL BE .13



Know what's below.  
Call before you dig.



## DILLON & MURPHY CONSULTING CIVIL ENGINEERS

ENGINEERING • PLANNING • SURVEYING  
847 N. CLUFF AVENUE, SUITE A2, LOS ANGELES, CALIFORNIA 90040 (213) 334-6613

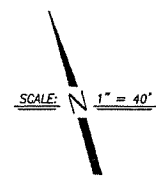
## MAGNOLIA PLACE SUBDIVISION OFF-SITE IMPROVEMENT PLANS

E. COLLIER RD.  
STA. 10+00 TO STA. 16+66

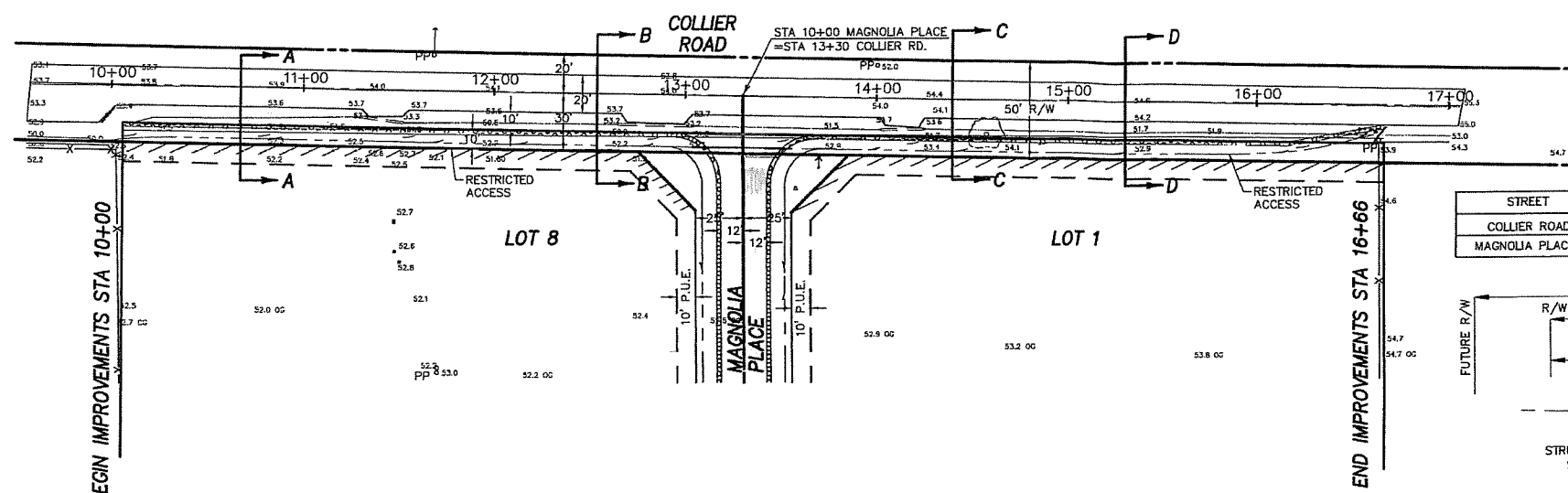
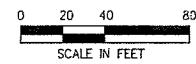
ACAMPO, CALIFORNIA  
JULY, 2018

REV. NO.	DESCRIPTION	DATE	BY	SCALE: AS NOTED	BENCH MARK: UT-06.3, EL: 52.917	SHEET
				DRAWN BY: CP	DESCRIPTION: #795 ON W GUARD-RAIL ON SPRR OVERPASS.	2
				DESIGNED BY: CP		OF 4 SHEETS
				CHECKED BY: JM	DATUM: NGVD 29	JOB NO. 1770
				AS BUILT BY:		





SCALE: 1" = 40'

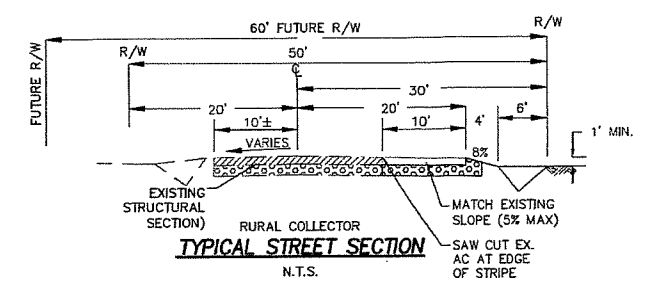


**NOTE:**

THE ROAD EXTENSION SHOWN ABOVE SHALL BE CONSTRUCTED TO COMPLY WITH THE S.J.C. STANDARDS FOR RURAL COLLECTOR ROAD (TYP).

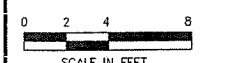
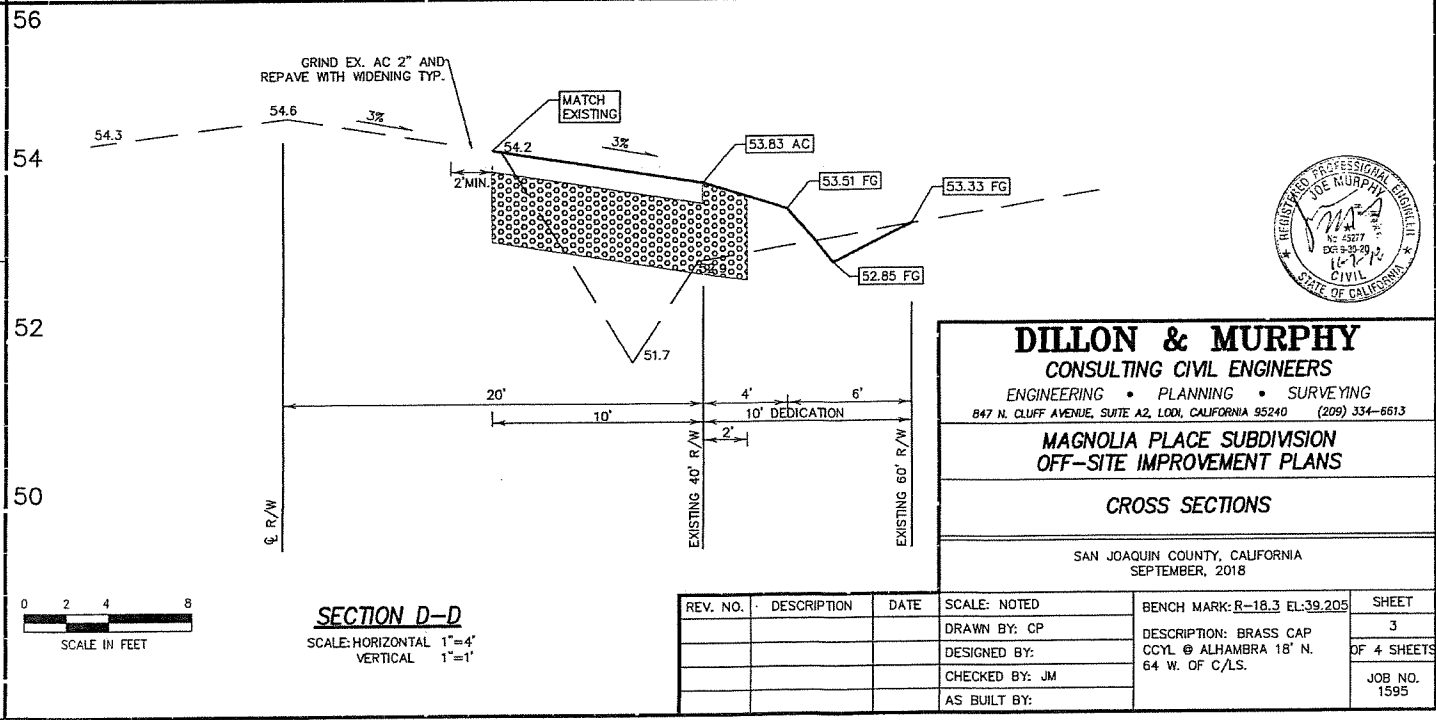
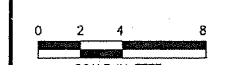
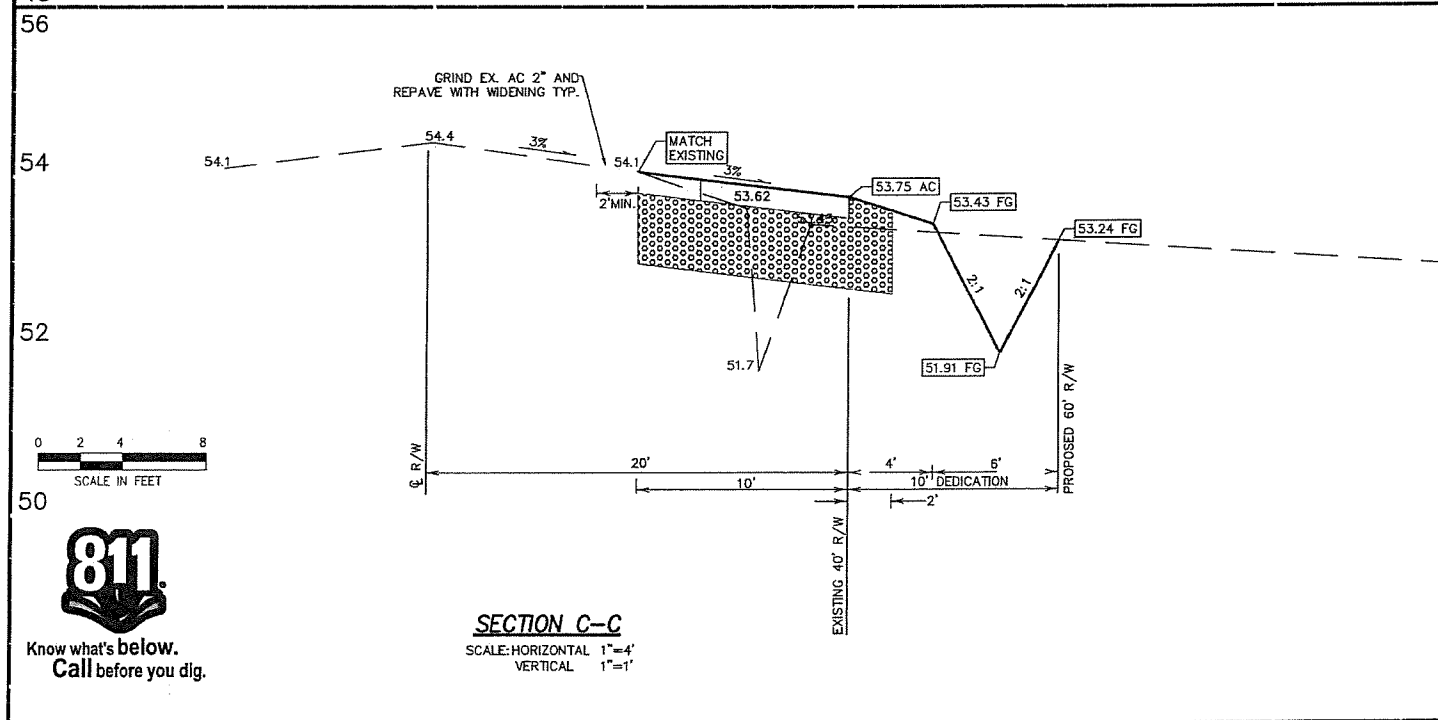
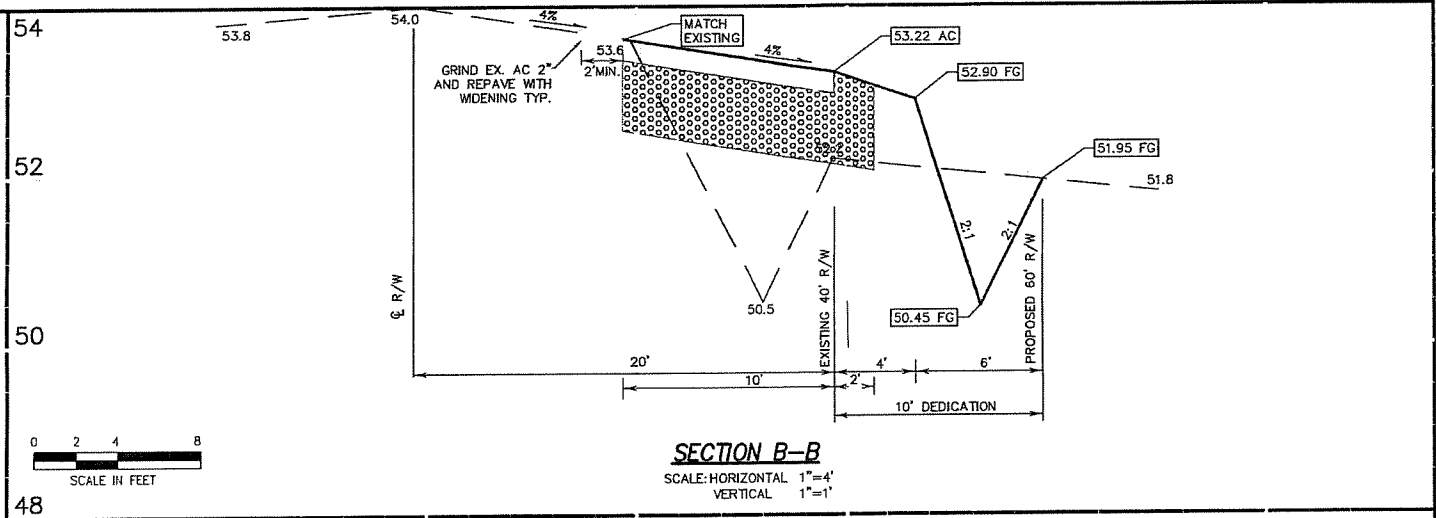
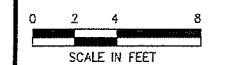
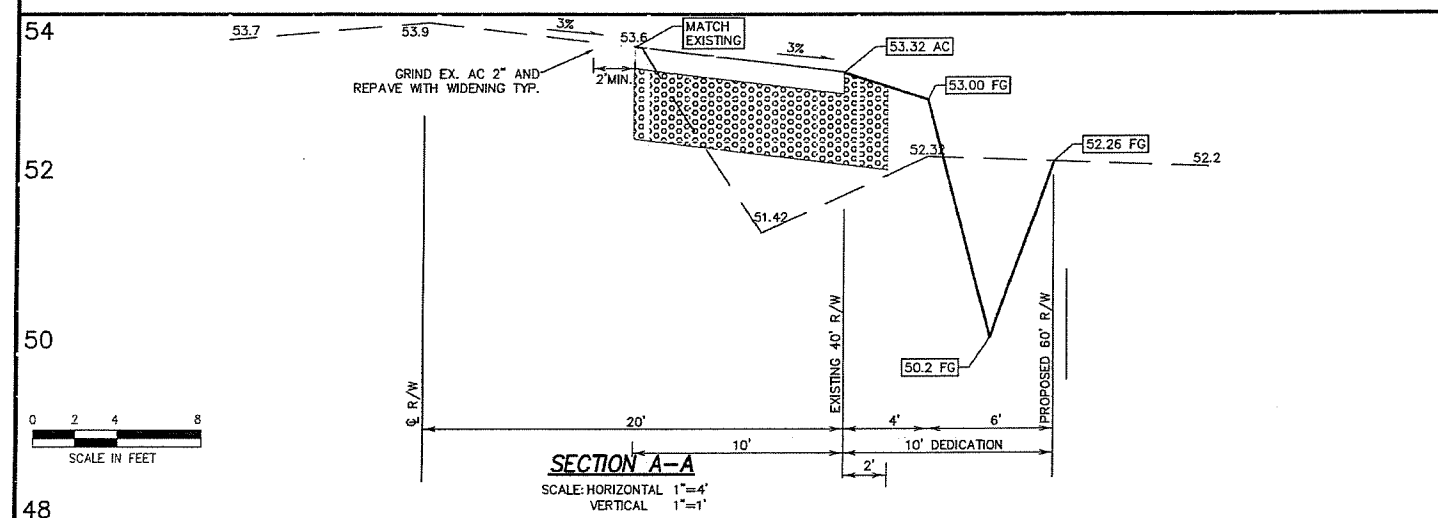
**PAVEMENT DESIGN CHART**

STREET	TI	AC (MIN)	AB (MIN)	SUBGRADE (MIN)	TOTAL THICKNESS
COLLIER ROAD	6.5	3.0"	14.5"	8"	25.5"
MAGNOLIA PLACE	5.0	3.0"	8.5"	8"	19.5"



**LEGEND**

- C.M.P. CORRUGATED METAL PIPE
- E.P. EDGE OF PAVEMENT
- EX. EXISTING
- Ø DIAMETER
- M.U.D. MUNICIPAL UTILITIES DISTRICT
- R/W RIGHT-OF-WAY
- BOUNDARY LINE
- EX. ASPHALT CONCRETE
- EX. AGGREGATE BASE
- PROPOSED AGGREGATE BASE
- PROPOSED ASPHALT CONCRETE
- EX. TRACK
- GUY WIRE
- FLOW LINE
- FENCE LINE
- POWER LINE



**DILLON & MURPHY**  
CONSULTING CIVIL ENGINEERS  
ENGINEERING • PLANNING • SURVEYING  
847 N. CLUFF AVENUE, SUITE A2, Lodi, CALIFORNIA 95240 (209) 334-6613

**MAGNOLIA PLACE SUBDIVISION**  
OFF-SITE IMPROVEMENT PLANS

**CROSS SECTIONS**

SAN JOAQUIN COUNTY, CALIFORNIA  
SEPTEMBER, 2018

REV. NO.	DESCRIPTION	DATE	SCALE: NOTED	BENCH MARK: R-18.3 EL:39.205	SHEET
			DRAWN BY: CP	DESCRIPTION: BRASS CAP CCYL @ ALHAMBRA 18" N. 64 W. OF C/L.S.	3
			DESIGNED BY:		OF 4 SHEETS
			CHECKED BY: JM		JOB NO. 1595
			AS BUILT BY:		





