Tulare County Complete Streets Cutler/Orosi Final

Prepared by:

TulareCountyManagement Agency

Resource



Tulare County Complete Streets – Cutler/Orosi

Prepared for:

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Introduction

Complete Streets Vision

The California Complete Streets Act (AB 1358) of 2008 was signed into law on September 30, 2008. Beginning January 1, 2011, AB 1358 requires circulation elements to address the transportation system from a multimodal perspective. The bill states that streets, roads, and highways must "meet the needs of all users in a manner suitable to the rural, suburban, or urban context of the general plan."

The Tulare County Resource Management Agency (RMA) is committed to fully integrating modal options in its General Plan and various Community Plans within Tulare County. This includes supporting projects that enhance walking and bicycling infrastructure. Additionally, RMA will improve access to public transportation facilities and services. This includes supporting urban development patterns and Americans with Disabilities Act (ADA) infrastructure that allow for greater accessibility to transit stops and stations. Finally, RMA continues to improve safety for all users and encourages street connectivity to create a comprehensive, integrated and connected circulation network. This is particularly important for those who rely on transportation infrastructure to be physically active and for students who walk or bike to school.

Steady population growth in Tulare County has directly impacted transportation needs. In the past, many of Tulare County's federal, state, and local funding sources were used to develop new or improved traffic signals, interchanges, provide more travel lanes and to maintain existing roadway facilities. Historically, these funding sources have run well short of what is needed. The typical roadway transportation project that adds capacity and infrastructure is insufficient given these conditions. The RMA must adhere to its vision, which is to "provide a safe, convenient and effective County transportation system that enhances mobility and air quality for residents and visitors."

Recent RMA and RMA-supported projects have already fulfilled some of these desires. There are already expanded bus transit routes in the County and more are being constructed for implementation in the near future. New transit centers are being placed throughout the County and efforts are underway to add more bicycle lanes and routes. Recent planning studies are looking to improve roadway safety, pedestrian safety, and access management between roadways and building developments. These efforts are consistent with green house gas (GHG) emissions reductions efforts to reduce vehicle miles travelled (VMT) set forth under SB 375.

Promoting Complete Streets projects can offer Tulare County the ability to reduce traffic congestion, improve air quality, and increase the quality of life of residents by providing safe, convenient, and comfortable routes for walking, bicycling, and public transportation. Integration of Complete Streets into Tulare County's existing policies allows the potential to prevent chronic diseases, reduce motor vehicle related injury and deaths, improve environmental health, stimulate economic development, and ensure access of transportation options for all people in Tulare County.

Complete Streets Definition

Complete Streets are roadways designed to safely and comfortably accommodate all users, regardless of age, ability or mode of transportation. Users include motorists, cyclists, pedestrians and all vehicle types, including public transportation, emergency responders, and freight and delivery trucks among others. In addition to providing safety and access for all users, Complete Street design treatments take into account accommodations for disabled persons as required by the ADA. Design considerations for connectivity and access management are also taken into account for non-motorized users of the facility.

Implementation of Complete Street design treatments will be based on whether it connects the networks for all modes, whether it improves the functionality for all users, and whether it is appropriate given the surrounding context of the community. The final elements of a Complete Street roadway will be largely based on these factors. At a minimum, a Complete Street roadway includes sidewalks and sidewalk amenities, transit shelters and facilities whenever there is a route along the corridor, and provisions for bicycle facilities.

Complete Streets Attributes

While every street cannot be designed to serve all users equally, there are opportunities to enhance service for all users while maintaining its principal transportation function. Complete Streets incorporate community values and support adjacent land uses while ensuring safety and mobility. Proper applications of Complete Streets concepts support sustainable growth and preservation of scenic, aesthetic and historic resources.

Report Outcomes

As a part of the Circulation Element for the Community Plan Update, this Complete Streets Report (Implementation Work Plan) and the following Implementation and Policies Section achieved the following outcomes:

- (i) *Addressed* congestion, climate change and oil dependence by shifting to lower-carbon modes;
- (ii) *Improved* safety by addressing shoulders, sidewalks, better bus placement, traffic speed reduction, treatments for travelers with disabilities;
- (iii) *Created* "livable communities" by encouraging walking and bicycling for health, and by providing a safe walking and bicycling environment as an essential part of improving transportation movement and safety within the roadways studied.

These outcomes are achieved by the following:

- (a) Included all users namely, pedestrians, bicyclists, transit vehicles and users, and motorists. In drafting this report, all users were invited to comment on how the County could better serve the community. The implementation of complete streets directly shifts the emphasis to lower-carbon (using) modes of transportation. The shift from the gas using automobile to pedestrian and bicycle transport is achieved through the creation of sidewalks, improving sidewalks, and including bike lanes and/or bike routes for a wider ranger of people to use. The shift to transit is included in improving policies, programs and facilities in the operations of County's transit systems.
- (b) *Created a comprehensive integrated and connected network* that supports "livable communities" that promote a safe interwoven fabric are provide for by the Policies Section using the transportation goals in the 2030 General Plan Circulation Element and by further defining complete streets network (see Appendix C).
- (c) *Emphasized flexibility* recognizing that all streets with these communities are different, and thus, balancing user needs. No one standard was applied to all streets and the street designs were adjusted to existing conditions, differing jurisdictions and the desires of the community.

- (d) Considered both new and retrofit projects, including design, planning, maintenance, and operation, for the entire right-of-way within these communities. In addition to the various sections discussed below Appendix A D include plans that show the plans, designs, and existing and proposed maintenance plans and operations of the Complete Streets Plan.
- (e) *Used the latest and best design standards*. By using newer design standards as represented in the preliminary design plans verses the County's Roadway Standards the County is able to provide wider sidewalks and include such amenities as traffic calming measures (bulbouts).
- (f) *Conducted extensive public outreach* to ascertain the solutions that best fit within the context of these communities. This culminated in two meetings, wherein the Community provided final feedback on the preliminary designs.

Conclusions and Future Funding Opportunities

The intended effect of identifying the outcomes and reaching the conclusions in this report is that future funding opportunities will be enhanced because the Community will be supported by fully updated Community Plans. The conclusion to the report includes the Circulation Element of the Community Plan including the policies, and plans. The other conclusion to the report includes preliminary design drawings.

Specifically, the funding sources that are found in the Funding Section will be pursued actively by Tulare County to complete the work identified in the studies include, but are not limited to, the following:

- California Safe Routes to Schools Funds
- Federal Safe Routes to Schools Funds
- Highway Safety Improvement Funds
- Federal Transportation Activity Program (TAP) Funds
- Federal Transit Funds
- Federal Communities Putting Prevention to Work Grant
- Federal Highway Administration Pedestrian Safety and Design
- Strategic Growth Council
- Walkable and Livable Communities Institute
- California's Local Public Health and Built Environment Program
- State Cap and Trade Funding

Implementation

Selection of Communities

An effort is under way in Tulare County to implement Complete Streets Policies in the unincorporated communities within Tulare County's boundary. Just as the County updated its General Plan in 2012, many of the Community Plans are going through the update process. As a result of the Community Plan update process, several public meeting have been held in order to garner input from the local residents and business owners. Balancing the needs of what the people want while following local, state and federal policies and laws with a limited amount of available funding is the principal challenge in each community.

Transportation and related infrastructure costs tend to be exceedingly high may take years to implement. For purposes of this Study, four transportation corridors were selected within the community (see Appendix A), and two roadway segments in the community were selected to be evaluated for implementation of Complete Street standards. These roadway segments generally represent the highest volume roadways with a blend of residential and mixed land uses that also provide for regional access. Local streets and freeways were not selected, however tying into these facilities is considered.

General themes that were voiced from residents in each community related to transportation included the <u>need</u> for:

- Sidewalks
- Better road conditions
- Safe walking and biking areas
- Street lights
- Pedestrian crossings
- Safe (lower) vehicle speeds
- Improved drainage
- Increased transit stops
- Improved connectivity (railroad crossings)

Given the information provided by the residents and business owners, conceptual layouts and designs based upon the citizens concerns were presented to collect input. Based upon the community planning process, the following sections identify proposed projects for each community.

Avenue 416 – SR 63 to Road 140 (Orosi)

As selected as the highest priority in Orosi, Avenue 416, between SR 63 and Road 140, the project proposes to install new curb, gutter, sidewalk, at designated intersections, pedestrian ramps, relocate utilities and drainage. In the spirit of Safe Routes to School, land uses along this corridor include residential, highway commercial (mini-marts, service stations), the Elementary School and other Public and Quasi Public Land Uses, with the school and children as the main focus of the safety improvements. This project will include two travel lanes, a two-way turn lane, cross walks, parallel parking, street lights, improved/new bus stops, street signage and sidewalks with curb and gutter for drainage.

George Road/2nd Drive - Avenue 407 to SR 63 (Cutler)

The George Road/2nd Drive extends between Avenue 407 and SR63 near Cutler School. This project proposes to install new curb, gutter, sidewalk, pedestrian ramps and drainage facilities along portions of

the north and south sides of George Road/2nd Drive. Land uses affected by this project include commercial, residential and quasi-public (school).

Project Phasing

Tulare County RMA is proposing two types of projects coming from the community based upon the complexity of the project. The first types of projects could be built with limited improvement. They would be considered Phase 1 Projects and would have only minor needs for storm drain facilities, fence relocations, utility conflicts, etc. Phase 2 Projects are more inclusive and would be classified as medium to long range projects. These projects would need other infrastructure improvements such as storm water basins, major storm drain improvements, utilities to be undergrounded, Caltrans encroachment permits etc.

Phase 1 Projects	Phase 2 Projects				
 Curb, gutter & sidewalk (storm drain water into existing system); pedestrian ramps; bulb outs (where appropriate) Street lights Bus shelters, benches, trash receptacles, etc. Fence relocations Street signage and striping Minor utility conflicts Minor land acquisition 	 Curb, gutter & sidewalk (new drainage system) Major storm drain facilities (new pipelines and storm water basins) Utility relocations (undergrounding) Major land acquisition Railroad crossing improvements Caltrans Bridge Improvements 				

Complete Street Policies

Complete Street Goals

The purpose of the RMA Complete Streets Policy is to create a comprehensive and uniform Complete Streets vision and policy for Tulare County. This will allow the implementing entities to incorporate Complete Streets guidelines and standards into both development and redevelopment actions. The County's goals are:

- Tulare County's transportation network will be supported through a variety of feasible transportation choices, which allows for sustainable growth.
- The livability of neighborhoods and commercial centers located along the County's transportation corridors will be enhanced by a safe and inviting pedestrian environment.
- The design of multimodal roadway facilities will not compromise the needs of larger vehicles such as transit vehicles, fire trucks and freight delivery trucks.
- Inclusion of Complete Streets design elements will allow for design flexibility on different street functions and neighborhood contexts.
- Inclusion of Complete Streets design elements will improve the integration of land use and transportation, while encouraging economic revitalization through infrastructure improvements.

Complete Streets Objectives

- To create an integrated and connected transportation network that supports transportation choices and sustainable growth.
- To ensure that all transportation modes are accommodated to the extent possible in all public roadway facilities in the County.
- To develop and use the latest design standards and guidelines in the design of Complete Streets.
- To provide flexibility in the implementation of this policy so that streets chosen for implementation of Complete Streets elements can be developed to fit within the context of their principal purpose and surroundings without compromising the safety of users and needs of larger vehicles.

Complete Streets Policies

Tulare County General Plan Policies

The Tulare County General Plan Update (2030) in complying with AB 1358 calls for 4 Complete Streets related principles including:

Principle 1: County-wide Collaboration

Support countywide transportation plans that provide choices in travel modes.

Principle 2: Connectivity

Emphasize connectivity among cities, communities, and hamlets to ensure County residents have access to jobs and services.

Principle 3: Community Circulation

Anticipate and provide transit, traffic, and roadway connections that support the interconnectivity of all communities.

Principle 4: Pedestrian and Bicycle Facilities

Plan for the development and expansion of pedestrian paths and bicycle facilities that provide residents, with alternative modes of travel.

These principles are expressed mainly in following policies including:

- TC-1.6 Intermodal Connectivity
- TC-1.7 Intermodal Freight Villages
- TC-5.1 Bicycle/Pedestrian Trail System
- TC-5.2 Non-motorized Modes in Planning and Development

Complete Street Policy Design Criteria

- 1. Tulare County promotes the incorporation of Complete Streets concepts and design standards in all appropriate new and retrofit County public streets (except State highways and freeways).
- 2. Tulare County will seek every opportunity to provide funding for the planning, design, and implementation of Complete Streets.
- 3. New Class I Multi-use Paths should be a minimum of eight (8) feet wide.
- 4. New Class II Bike Lanes should be a minimum of five (5) feet wide.
- 5. New sidewalks should be a minimum of five (5) feet wide.
- 6. Bulb-outs should be considered in areas of higher speed (35 mph or greater) where sufficient turning radii for trucks is available or as determined by the County Engineer.
- 7. As determined by the County Engineer, installation of posted speed limit vehicle activated traffic calming signs (VATCS) are encouraged in instances of high speed to promote safety.
- 8. Transit shelters and benches are encouraged at all County transit stops if FTA grants are available.
- 9. Street lighting and cross walk are encouraged to promote safety if considered feasible by the County Engineer.
- 10. Design policies should be consistent with the Tulare County Improvement Standards; other references include existing design guides, such as those issued by Caltrans, AASHTO and the ADA Accessibility Guidelines.

- 11. Public streets excluded from this policy include those where:
 - Complete streets concepts are in conflict with existing laws, codes, or ordinances.
 - Compliance with this policy would conflict with goals or physical conditions related to the unique aspects of the location.
- 12. Exceptions from Complete Street Policies:
 - Accommodation is not necessary where non-motorized use is prohibited, such as freeways.
 - Cost of accommodation is excessively disproportionate to the need or probable use as determined by the County Engineer.
 - A documented absence of current or future need.

Complete Street Mobility Plan

The California Complete Streets Act (AB 1358) of 2008 was signed into law on September 30, 2008. Beginning January 1, 2011, AB 1358 requires circulation elements to address the transportation system from a multimodal perspective. The bill states that streets, roads, and highways must "meet the needs of all users in a manner suitable to the rural, suburban, or urban context of the general plan." Essentially, this bill requires a circulation element to plan for multimodal transportation accommodating all modes of transportation where appropriate, including walking, biking, car travel, and transit. The current functional classification system plan is shown in Appendix B (Circulation Plan).

The Complete Streets Act also requires circulation elements to consider the multiple users of the transportation system, including children, adults, seniors, and the disabled. For further clarity, AB 1358 tasks the Governor's Office of Planning and Research to release guidelines for compliance with this legislation by January 1, 2014. Implementation of complete streets principles should be tailored to the individual jurisdiction and the individual roadway. The Complete Streets Program for Tulare County focuses on a network-based approach that has been tailored to the needs of the Community of Cutler/Orosi. Another principle that is being applied is under SB 743, requiring a change to evaluating traffic using Vehicle Miles Traveled verses Level of Service under CEQA analysis, and under AB 32 in reducing Green House Gasses.

Complete Streets: According to the National Complete Streets Coalition, complete streets are a means by which, "… planners and engineers (can) build road networks that are safer, more livable, and welcoming to everyone…. Instituting a complete streets policy ensures that transportation planners and engineers consistently design and operate the entire roadway with all users in mind – including bicyclists, public transportation vehicles and riders, and pedestrians of all ages and abilities."

Network-Based Complete Streets: Combines individual travel mode networks into one multimodal transportation system, integrating infrastructure where appropriate, ultimately ensuring that all users can safely and efficiently access their destination.

Vehicle Miles Traveled (VMT): Vehicle miles traveled is the metric that identifies the total distance traveled in a car per driver. VMT drives roadway needs (the more people who drive, the more capacity and maintenance are needed on the roadway system). Under the Tulare County Climate Action Plan, in reducing VMT green house gas emissions are reduced and the County has an overall target of reducing 6% of its green house gas emissions through a reduction in VMT.

Community Plans adopt these principles, which are combined into the following mission statement:

The Community Complete Streets Network comprises four types of facilities—vehicular, pedestrian, bicycle, and public transit. This complete streets approach will enable residents to choose which travel mode best suits them. It also will ensure that streets are designed with the users in mind—accommodating for businesses, children, the elderly, bicyclists, and transit users.

Caltrans and Complete Streets

Under Caltrans District Order 64-R1, Caltrans requires that a Complete Streets Implementation Action Plan be developed and implemented for Caltrans owned and maintained Streets. Their Implementation Action plan provides a background by which the Tulare County Completes Street Plan will be implemented.

TCAG, Tulare County Regional Bicycle Transportation Plan, Regional Transportation Plan (RTP) and Sustainable Communities Strategy (SCS)

TCAG in 2014 updated a Regional Bicycle Plan that does not include any bicycle facilities through the Community of Cutler/Orosi. TCAG funded the grant for this Complete Streets Policy and in the RTP Action Element describe bicycle circulation patterns and Pedestrian policies focusing on the Americans with Disabilities Planning Strategies and Transportation Demand Management to increase pedestrian activity. In addition, rail and goods movement is part of the Sustainable Communities Strategy in lieu of utilizing diesel powered freight trucks.

Tulare County Climate Action Plan (CAP)

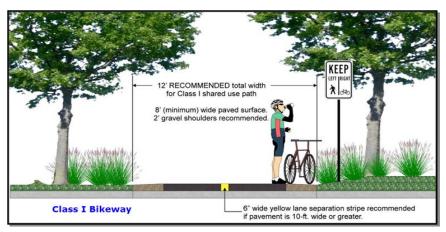
The Tulare County CAP calls for a reduction on a project (over 50 vehicles) by project basis of 6% trough a mixture of measures that are spelled out in Appendix J of the CAP. Utilization of alternative means of transportation will reduce GHG emissions and will help projects and the region meet their targets.

Bicycle Facilities

Bicycle facilities consist of Class I, Class II, and Class III facilities as defined below. In Tulare County, this General Plan and the Bicycle Transportation Plan envision a system of bicycle lanes on roadways that will connect the activity centers of the communities to the residents. County has identified pedestrian corridors on the Community of Cutler/Orosi Bicycle, Bus and Pedestrian Plan (see Appendix C).

Class I

Bike path providing completely separated right-ofdesignated for way the exclusive use of bicycles and pedestrians. In Tulare County, Class Ι facilities will primarily be implemented through TCAG. Future bicycle facilities have also been identified through the Bicvcle *Transportation* Plan (TCAG - 2010). There is a proposed Class I on Ave. 416.



bicycle facilities in Cutler/Orosi.

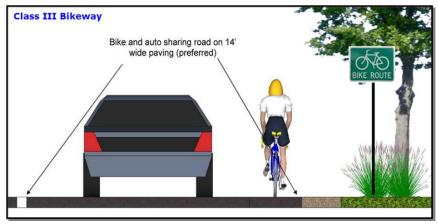
Class II

Bikeway that provides designated lanes for the use of bicycles through the use of striping on the roadway and signage designations for the facility. For the purposes of Complete Streets, the County is not proposing Class II bicycle facilities.



Class III

Bikeway that provides route designation by signage. Roadways are shared between bicvclists and motorists. Class III facilities in Tulare County are envisioned to be implemented along the major circulation segments of roadway that connect the overall County roadwav network. Class III facilities are not proposed.



Although not signed on many local roads in Cutler/Orosi, bicyclists are allowed use the side of the road or share the road on all County roadway facilities excluding freeways.

Pedestrian Facilities

Pedestrian Paths and Sidewalks

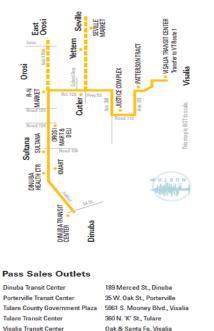
Pedestrian paths are primarily developed as part of the roadway and trail systems of a community and reflect the interconnected nature of circulation and transportation systems as a whole. Constructing wide streets increases the distance a pedestrian must travel to cross a street, thereby making it inconvenient for public use and inhibiting pedestrian circulation in the community. Currently, limited continuous sidewalks are provided along major routes in the community. In addition to connecting available pedestrian resources, the communities have prioritized the completion of sidewalks along safe routes to school. Enhanced pedestrian crossings and sidewalks is considered in areas where high pedestrian demand occurs (such as to and around schools).

Multiuse Trails

Multiuse trails are facilities that can be used by bicycles, pedestrians, equestrians, and other recreational users. No multiuse trails exist or are proposed in Cutler/Orosi.

Transit Facilities

Transit options give users the ability to get to a destination without relying on the automobile. This also provides other community benefits, including reduced vehicle miles traveled (VMT). Reducing VMT will help the County achieve their greenhouse gas reduction target,



Paratransit Service

Tulare County Area Tranist (TCAT)

Public transportation services and facilities in Tulare County consist of public bus service, paratransit service, and could also consider park-and-ride locations.

Public Bus Service

Public bus service is provided by Tulare County Area Transit (TCAT) in rural areas such as Cutler/Orosi and by local City transit agencies in transitioning areas, which enables commuters to travel within the communities and adjacent cities with minimal transfers. Existing transit routes and designated bus stops are shown in the following figures.

Transit service is provided in Cutler/Orosi through the Tulare County Area Transit (TCAT). Additionally, Tulare County has provided guidance for including transit within facilities. These guidelines should be applied when considering new development to ensure appropriate connectivity and design features to support bus service.

Paratransit is an alternative mode of passenger transportation that does not follow fixed routes or schedules. Typically, vans or minibuses are used to provide paratransit service. Paratransit services vary considerably on the degree of flexibility they provide their customers. The most flexible systems offer on-demand, call-up, door to door service from any origin to any destination in a service area.

Park-and-Ride Lots

Park-and-ride lots provide places for people to meet up and carpool to areas outside of the Community. A Park and Ride facility could also provide a compressed natural gas refueling station. As the community's population grows and given the large number of commuters, a park-and-ride location would be best sited near the edges of the Community along State Route 65.

Cost Benefits Analysis, Implementation, and Funding Mechanisms

Caltrans lists the following benefits of Complete Streets in their implementation plan. They include:

- Increased Transportation Choices: Streets that provide travel choices can give people the option to avoid traffic congestion, and increase the overall capacity of the transportation network.
- Economic Revitalization: Complete streets can reduce transportation costs and travel time while increasing property values and job growth in communities.
- Improved Return on Infrastructure Investments: Integrating sidewalks, bike lanes, transit amenities, and safe crossings into the initial design of a project spares the expense of retrofits later.

- Quality of Place: Increased bicycling and walking are indicative of vibrant and livable communities.
- Improved Safety: Design and accommodation for bicyclists and pedestrians reduces the incidence of crashes.
- More Walking and Bicycling: Public health experts are encouraging walking and bicycling as a response to the obesity epidemic. Streets that provide room for bicycling and walking help children get physical activity and gain independence.

Benefits of Complete Streets

The health benefits from walking and bicycle riding include increased overall health, and a reduction in air quality and green house emissions. According to the Caltrans accepted, Victoria Transport Policy Institute, walking has a \$.25 per mile health benefit, while the cost of Greenhouse Gas (GHG) reductions is \$23 per ton. According to the Federal Highway Administration, sidewalks reduce incidences to pedestrians over 80%.¹ According to Caltrans, the average costs of highway incidents are stated below.

Cost of Highway Accident	Dollars Per Accident
Fatal Accident	\$4,800,000
Injury Accident	\$67,400
Property Damage Only (PDO) Accident	\$10,200
Average Cost per Accident	\$52,500
Cost of an Event	Dollars Per Event
Cost of a Fatality	\$4,400,000
Cost of an Injury	
Level A (Severe)	\$221,400
Level B (Moderate)	\$56,500
Level C (Minor)	\$26,900
Cost of Property Damage	\$2,500
Source: California Department of Transportation	

The collision history within the Cutler/Orosi area can be traced using the Transportation Injury Management System hosted by UC Berkeley SafeTrec. When reviewing the 5 year (2009-2013) injury collision history, a total of 96 collisions have occurred involving a pedestrian or bicyclist and a motor vehicle. (See Figure below).

¹ http://www.dot.ca.gov/hq/tpp/offices/eab/benefit_cost/LCBCA-economic_parameters.html



Source: Transportation Injury Management System, UC Berkeley 2009-2013

Since there are currently no sidewalks many pedestrians walk in the street. Vehicles cannot distinguish roadway with walking paths when curbs do not exist. Any amount of collisions involving pedestrians or bicyclists should be of great concern, especially adjacent to a local school.

Factors such as speed, visibility and general pedestrian/bicyclist awareness are identified as contributing factors relating to the incidents. As a result, the project was developed with these specific factors in mind. The proposed design improvements have been proven to be effective and have also been proven to reduce speeds, increase visibility and increase overall awareness of pedestrian activity.

Community Specific Complete Street Implementation Measures

As part of a network-based approach, the County has identified (and will implement through pursuing further roadway studies and infrastructure design updates) a complete network for pedestrians. The County will also work to deliver infrastructure to support all modes of transportation. In addition to the General Plan Circulation Element Implementation Section, the key implementation measures include:

- 1. Evaluating Roadways as potential Bike/Pedestrian travel routes,
- 2. Completing pedestrian infrastructure, as appropriate,
- 3. Providing safe and accessible pedestrian facilities in high use areas,
- 4. Designing and building sidewalks for safer routes to school,
- 5. Designating roadways for bicycle routes that are aligned with the Tulare County comprehensive bicycle network,
- 6. Coordination with County Transit, and,
- 7. Submitting the following list of project and cost to TCAG and Caltrans for consideration under further grant funding opportunities.

Measure R

Bike/Transit/Environmental Projects (14% of Measure R Funding)

On November 7, 2006, the voters of Tulare County approved Measure R, imposing a ¹/₂ cent sales tax for transportation within the incorporated and unincorporated area of Tulare County for the next 30 years. The transportation measure will generate slightly more than \$652 million over 30 years to Tulare County's transportation needs.

The Goals of Measure R include air quality improvement efforts that will be addressed in the Measure R Expenditure Plan through the Transit/Bike/Environmental Program, which includes funding for transit, bike, and pedestrian environmental projects. The goal of this program is to expand or enhance public transit programs that address the transit dependent population, improve mobility through the construction of bike lanes, and have a demonstrated ability to get people out of their cars and improve air quality and the environment.

Active Transportation Program (ATP)

On September 26, 2013, Governor Brown signed legislation creating the Active Transportation Program (ATP) in the Department of Transportation (<u>Senate Bill 99, Chapter 359</u> and <u>Assembly Bill 101, Chapter 354</u>). The ATP consolidates existing federal and state transportation programs, including the Transportation Alternatives Program (TAP), Bicycle Transportation Account (BTA), and State Safe Routes to School (SR2S), into a single program with a focus to make California a national leader in active transportation.

Citizen Feedback

Public Outreach Efforts

The purpose public workshops or community meetings is to engage in discussions with local residents and business owners regarding specific topics, e.g., transportation related improvements. Public outreach efforts were held in several formats including formally and informally. Formal community meetings were held at local schools, community service districts/public utility districts (CSDs/PUDs), town council forums and other well-known locations. Informal meetings were conducted with individual business or property owners associated to specific access concerns or other issues.

Publicity for meeting times and locations generally consisted of newspaper releases, local newsletter informational items, citizens distributing fliers, handing out bi-lingual fliers to school children to be given to the student's guardian, posting fliers at local community businesses, local school board meeting agendas, area congressional office and non-profit agency assistance, local senior centers and health clinics (if applicable), email and other forms of communication. Formal public meetings were held in the various communities shown below. A summary of additional information – Tulare County Resource Management Agency Complete Streets and Community Plan Outreach (2015) – is located in Appendix I.

Cutler/Orosi Public Meetings

- Complete Streets Meeting February 2, 2015
- Complete Streets Meeting March 3, 2015



Community feedback was gathered at the February and March meetings and incorporated into the design of the Complete Street Plans and further discussed in the February and March, 2015 meetings to receive further community feedback. These designs were edited to include feasible improvements and cost estimates were assigned to each project within the respective community for each study roadway segment.

Design Facilities

Improvement Standards

The purpose public workshops or community meetings is to engage in discussions with local residents and business owners regarding specific topics, e.g., transportation related improvements. Transportation related facilities for public use are built within existing right of way (R/W) owned by a public agency, e.g., county, city or state. Within this R/W is a standard cross section, which is a term that is used to define the configuration of existing or proposed roadways at right angles to the centerline (CL). Typical sections show the width, thickness and descriptions of the pavement section, as well as the geometrics of the graded roadbed, side improvements and side slopes.

In Tulare County, the two most common cross sections are shown for two or four lane roads, varying in width based upon the number of lanes, parking, sidewalks, shoulders, bike lanes, etc. Figure 1 shows the cross section for two lane roads and Figure 2 identifies a typical four lane cross section.

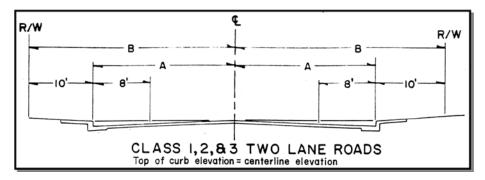


Figure 1 - Tulare County Class 1, 2 & 3 Two Lane Roads

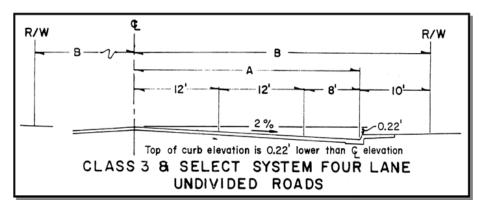


Figure 2 - Tulare County Class 3 Four Lane Road

Tulare County Pavement Management System

Pavement Management

Pavement management is the process of planning the maintenance and repair of a network of roadways or other paved facilities in order to optimize pavement conditions over the entire network. Pavement management incorporates life cycle costs into a more systematic approach to minor and major road maintenance and reconstruction projects. The needs of the entire network as well as budget projections are considered before projects are executed. Pavement management encompasses the many aspects and tasks needed to maintain a quality pavement inventory, and ensure that the overall condition of the road network can be sustained at desired levels.

Pavement Management System

The Tulare County Pavement Management System (PMS) is a planning tool used to aid pavement management decisions. PMS software programs model future pavement deterioration due to traffic and weather, and recommend maintenance and repairs to the road's pavement based on the type and age of the pavement and various measures of existing pavement quality. Measurements can be made by persons on the ground, visually from a moving vehicle, or using automated sensors mounted to a vehicle. PMS software assists RMA staff to create composite pavement quality rankings based on pavement quality measures on roads or road sections. Recommendations are usually biased towards preventive maintenance, rather than allowing a road to deteriorate until it needs more extensive reconstruction.

Typical tasks performed by Tulare County PMS include:

- Inventory pavement conditions, identifying good, fair and poor pavements;
- Assign importance ratings for road segments, based on traffic volumes, road functional class, and community demand;
- Schedule maintenance of good roads to keep them in good condition; and,
- Schedule repairs of poor and fair pavements as remaining available funding allows.

Research has shown that it is far less expensive to keep a road in good condition than it is to repair it once it has deteriorated. This is why pavement management systems place the priority on preventive maintenance of roads in good condition, rather than reconstructing roads in poor condition. In terms of lifetime cost and long term pavement conditions, this will result in better system performance.

The County is proposing a Road Maintenance Plan (see Appendix D) for the community of Cutler/Orosi that is a result of the PMS.

Projects

Complete Streets Project Plans

The plans and projects in the appendices are identified as part of the complete streets policy to identify corridors for various user types and to demonstrate examples of design policies. These plans and are the result of input obtained through the community outreach process, multiple Tulare County agencies and divisions and professional engineering consultants.

The six projects on Orosi and five projects in Cutler have been identified herein that represent the priority improvements to the backbone of the complete streets network within Cutler/Orosi. One project in Cutler and one project in Orosi will be developed to a 30% design stage and the remaining four projects have been preliminarily scoped and budgetary estimates have been prepared. These projects were developed to provide the County and various funding agencies with a list of projects to move toward funding, design, and ultimately construction.

<u>Orosi</u>

- 1. Avenue 416 SR 63 to Road 140 (East Orosi)
- 2. Avenue 413 Road 124 to SR 63
- 3. Avenue 419
- 4. Avenue 416 SR-63 to Dinuba
- 5. Road 130 (Strong interest from the school district)
- 6. Road 124

Cutler

- 1. George Road/2nd Drive Avenue 407 to SR 63
- 2. Avenue 408 Road 124 to SR 63
- 3. Railroad Drive SR 63 to Road 124
- 4. Avenue 404 SR 63 to Robert Rd
- 5. First Drive SR 63 to Road 124

General Road Concerns

- 1. Flooding: Intersection of Orosi Drive and 2nd Drive.
- 2. Stop Sign: Intersection of Road 124 at Aceves Avenue.
- 3. Traffic Speeding Concerns: Road 124 (Avenue 408 to Avenue 416).
- 4. Request for additional Crosswalks: Road 127 (El Monte School, Students cross mid-block at multiple locations primarily north of the school).
- 5. Sight Distance Problem with parked vehicles: Road 127 at Avenue 416 (Northbound left turn from Road 127 to westbound Ave 416).
- 6. Traffic Signal at Orosi High School: SR 63 (Road 128)
- 7. Traffic Speeding: Avenue 416 (There has been an accident along this road).
- 8. Lights & Sidewalks: Avenue 63.
- 9. Sidewalks: Avenue 63 and Ella Avenue.

Complete Streets Funding Opportunities

The following sections identify opinions of probable cost estimates for Complete Street transportation related improvements in Cutler/Orosi. As shown in the tables, the funding sources include local, state and

federal programs. Typically, local matches are required for acquiring state and federal funds. Measure R, a Tulare County sales tax for transportation, is available for such matches.

Cost Estimates

Detailed cost estimates are included in Appendix E and G.

Appendix A –

Proposed Complete Streets Projects

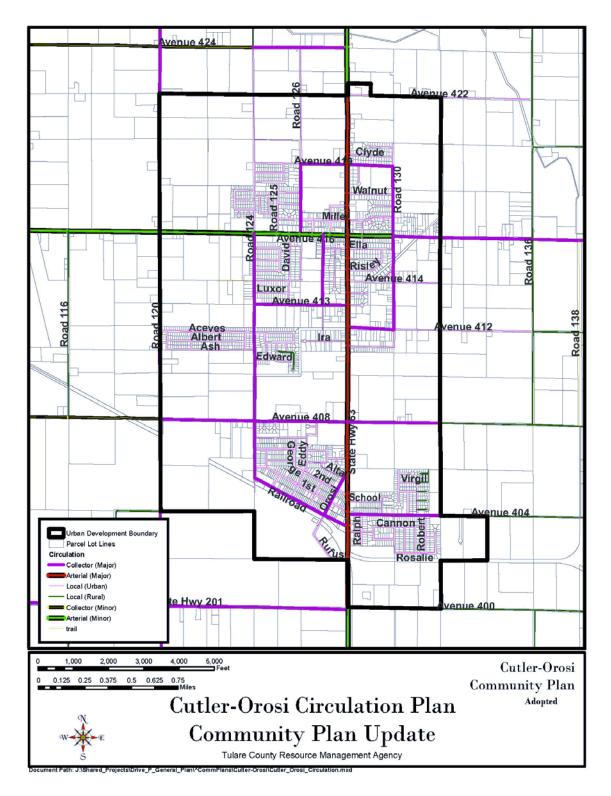
<u>Orosi</u>

- 1. Avenue 416 SR 63 to Road 140 (East Orosi)
- 2. Avenue 413 Road 124 to SR 63
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- 4. Avenue 416 SR-63 to Dinuba
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Cutler

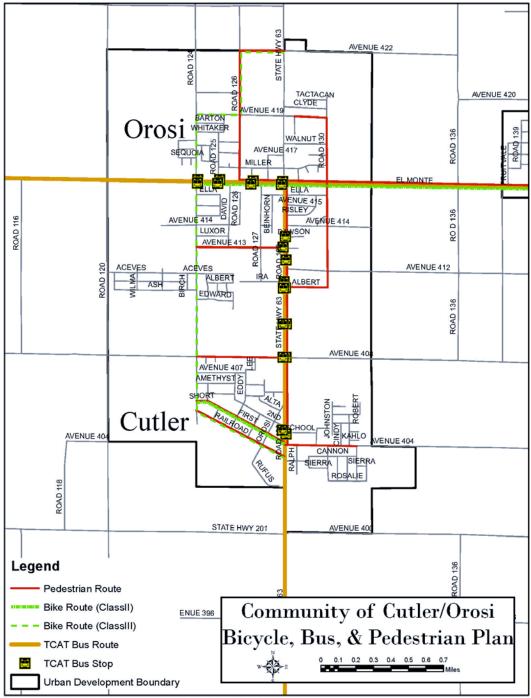
- 1. George Road/2nd Drive Avenue 407 to SR 63
- 2. Avenue 408 Road 124 to SR 63
- 3. Railroad Drive SR 63 to Road 124
- 4. Avenue 404 SR 63 to Robert Rd
- 5. First Drive SR 63 to Road 124

Appendix B – Circulation Plan



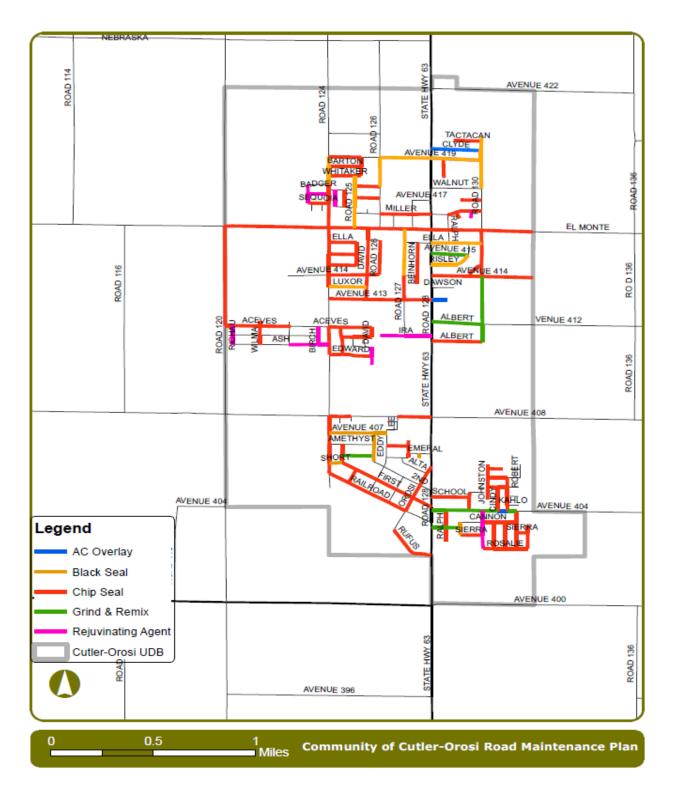
Appendix C –

Bicycle, Bus, and Pedestrian Plan



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Appendix D Road Maintenance Plan



Appendix E Cost Estimates for Cutler

PRELIN	INARY CO	OST ESTIMATE (30-Percent)				
		Street Improvements		Date:	10/21/2015	
	of Tulare					
Constru	uction					
ITEM		ITEM DESCRIPTION	UNIT OF	ESTIMATED	ITEM	TOTAL
NO	(F)		MEASURE	QUANTITY	PRICE	
1	-	MOBILIZATION	LS	1	\$ 148 900.00	\$ 148 900
2	-	JOB SITE MANAGEMENT	LS	1	\$8000.00	\$ 8 000
3	-	WATER POLLUTION CONTROL PROGRAM	LS	1	\$4500.00	\$ 4 500
4	-	CONSTRUCTION AREA SIGNS	LS	1	\$ 7 500.00	\$ 7 500
5	-	TRAFFIC CONTROL SYSTEM	LS	1	\$ 30 000.00	\$ 30 000
6	-	RELOCATE FENCE (CHAIN LINK)	LF	772	\$ 50.00	\$ 38 620
7	-	RELOCATE FENCE (IRON)	LF	896	\$ 90.00	\$ 80 675
8	-	RELOCATE FENCE (BRICK AND IRON)	LF	99	\$ 150.00	\$ 14 856
9	-	RELOCATE POWER POLE	EA	1	\$ 40 000.00	\$ 40 000
10	-	RELOCATE DRAIN INLET	EA	2	\$ 1 500.00	\$ 3 000
11	-	RELOCATE SIGN	EA	4	\$ 300.00	\$ 1 200
12	-	RELOCATE FIRE HYDRANT	EA	1	\$ 6 000.00	\$ 6 000
13	-	ADJUST WATER VALVE COVER TO GRADE	EA	9	\$ 800.00	\$ 7 200
14	-	ADJUST WATER METER BOX TO GRADE	EA	9	\$ 3 500.00	\$ 31 500
15	-	ADJUST FIRE HYDRANT TO GRADE	EA	3	\$ 5 500.00	\$ 16 500
16	-	ADJUST MANHOLE TO GRADE	EA	10	\$ 1 200.00	\$ 12 000
17	-	ADJUST DRAIN INLET TO GRADE	EA	1	\$ 1 500.00	\$ 1 500
18	-	RESET MAILBOX	EA	18	\$ 300.00	\$ 5 400
19	-	REMOVE TREE	EA	1	\$ 800.00	\$ 800
20	-	CLEARING AND GRUBBING	LS	1	\$ 10 000.00	\$ 10 000
21	(F)	ROADWAY EXCAVATION	CY	3 989	\$ 60.00	\$ 239 320
22	(F)	CLASS 2 AGGREGATE BASE	CY	2 384	\$ 60.00	\$ 143 048
23	-	HOT MIX ASPHALT (TYPE A)	TON	1 724	\$ 110.00	\$ 189 666
24	-	48" MANHOLE	EA	11	\$ 6 000.00	\$ 66 000
25	-	MINOR CONCRETE (CURB AND GUTTER)	LF	4 280	\$ 25.00	\$ 107 009
26	-	MINOR CONCRETE (SIDEWALK)	SQFT	17 056	\$ 7.00	\$ 119 393
27	-	MINOR CONCRETE (DRIVEWAYS AND CURB RAMPS)	SQFT	6 258	\$ 15.00	\$ 93 875
28	-	DETECTABLE WARNING SURFACE	SQFT	245	\$ 45.00	\$ 11 025
29	-	SIGNING & STRIPING	LS	1	\$ 15 000.00	\$ 15 000
30	-	EROSION CONTROL	LS	1	\$ 5 000.00	\$ 5 000
31	-	MISCELLANEOUS ITEMS	LS	1	\$ 327 146.00	\$ 327 146
		Total - Construction Items 1-31				\$1 784 631
		Contingency (25%)				\$ 446 158
		Recommended Total Construction Budget				\$2 230 789
Non-Co	nstruction	Related Costs				
ITEM		ITEM DESCRIPTION	UNIT OF	ESTIMATED	ITEM	TOTAL
NO	(F)		MEASURE	QUANTITY	PRICE	
32	-	Environmental Clearance	% of CON	5%	\$1 784 631.36	\$ 89 232
33	-	Right of Way Acquisition (Capital)	SQFT	1 081	\$ 5.00	\$ 5 403
34	-	Right of Way Acquisition (Support)	Parcel	5	\$ 5 000.00	\$ 25 000
35	-	Final Engineering Design	% of CON	15%	\$1 784 631.36	\$ 267 695
36	-	Construction Support	% of CON	2%	\$1 784 631.36	\$ 35 693
37	-	Construction Management	% of CON	15%	\$1 784 631.36	\$ 267 695
38	-	Utility Relocations	LS	1	\$75 000.00	\$ 75 000
		Total - Non-Construction Items 33-38				\$ 765 717
		Total Construction & Non-Construction Items				\$2 996 506



Preliminary Cost Estimate (30-Percent)

Avenue 408, Cutler

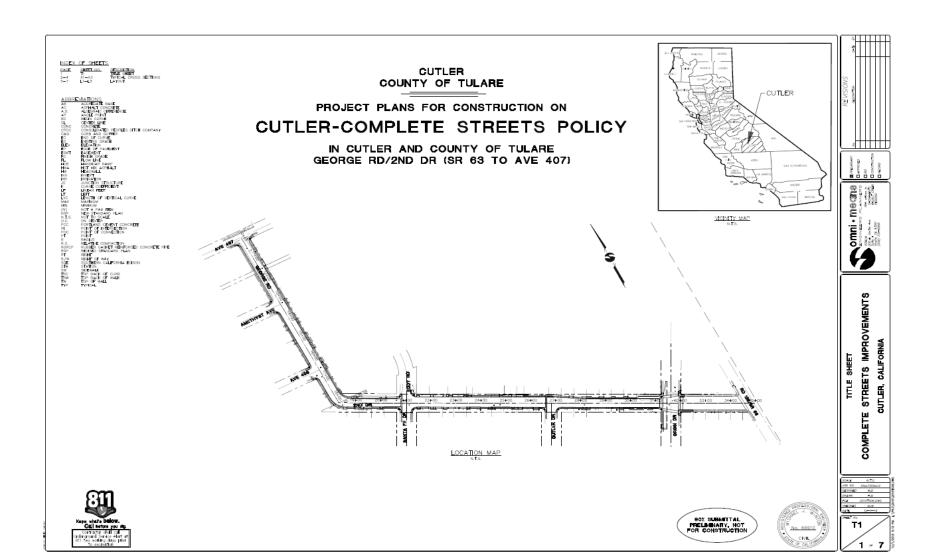
Tulare County Complete Streets

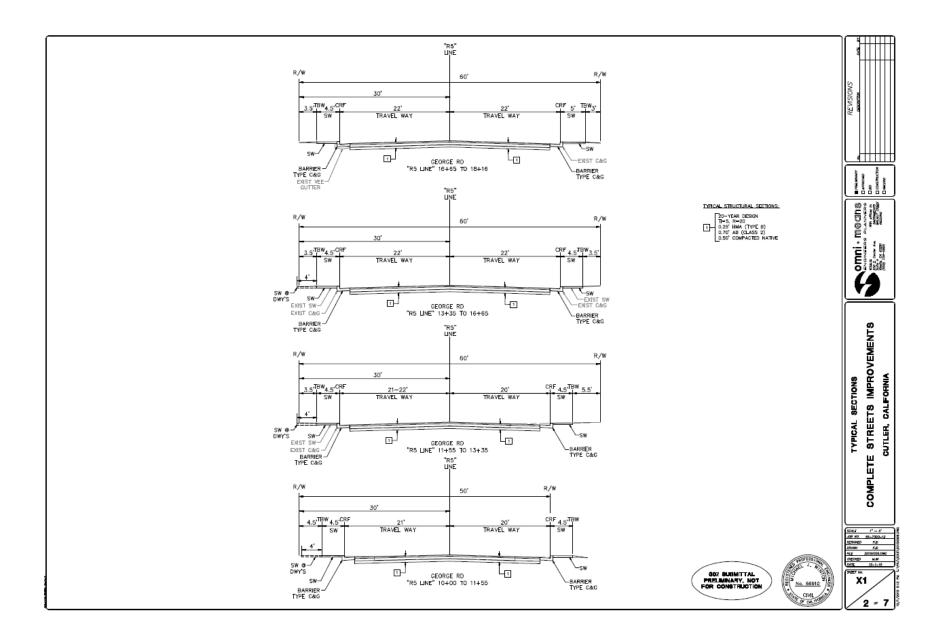
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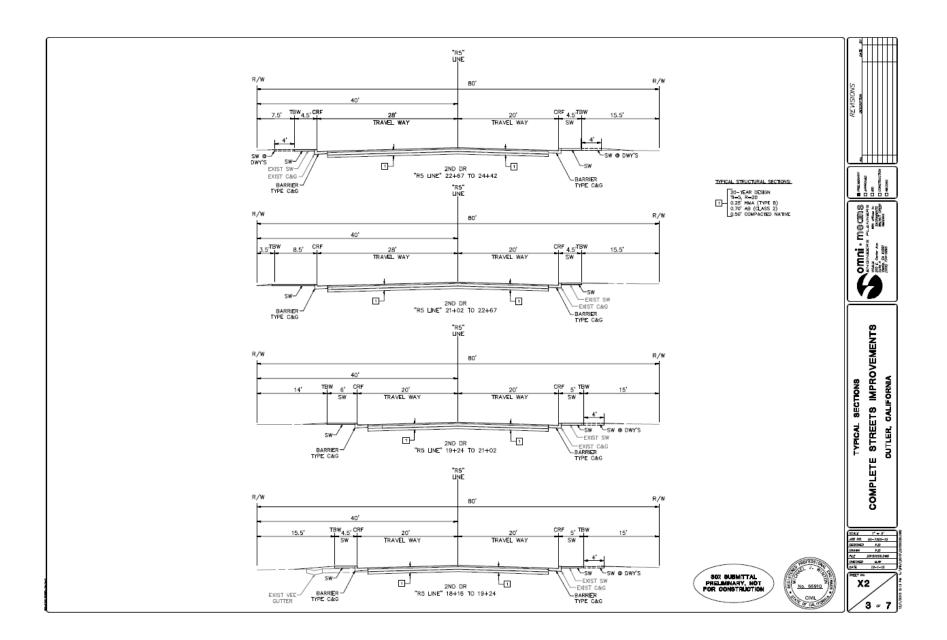
No.	Item Description	Units	Quantity	Unit Cost	Total
1	Job Site Management	LS	1	\$8,000.00	\$8,000.00
2	Water Pollution Control Program	LS	1	\$4,500.00	\$4,500.00
3	Construction Area Signs	LS	1	\$7,500.00	\$7,500.00
4	Traffic Control	LS	1	\$30,000.00	\$30,000.00
5	Remove Chain Link Fence	LF	31	\$12.00	\$372.00
6	Remove Wooden Fence	LF	12	\$20.00	\$240.00
7	Remove Traffic Stripe	LF	2992	\$1.00	\$2,992.00
8	Remove Pavement Marking	SQFT	456	\$2.70	\$1,231.20
9	Reconstruct Drain Inlet	EA	2	\$3,500.00	\$7,000.00
	Remove Sign	EA	16	\$130.00	\$2,080.00
	Remove Irrigation Standpipe	EA	1	\$1,500.00	\$1,500.00
	Remove Metal Post	EA	3	\$75.00	\$225.00
	Remove Concrete (Curb & Gutter)	LF	2307	\$15.00	\$34,605.00
	Remove Concrete Sidewalk	SQFT	3787	\$4.50	\$17,041.50
	Relocate Fence (Chain Link)		33	\$80.00	\$2,640.00
	Reset Mailbox	EA	1	\$300.00	\$300.00
-	Adjust Manhole to Grade	EA	6	\$1.200.00	\$7,200.00
	Adjust Fire Hydrant to Grade	EA	4	\$5,500.00	\$22,000.00
	Relocate Fire Hydrant	EA	2	\$6,000.00	\$12,000.00
	Adjust Water Meter Box to Grade	EA	3	\$800.00	\$2,400.00
	Adjust Water Valve Frame & Cover to Grade	EA	4	\$1,200.00	\$4,800.00
	Clearing and Grubbing	LS	1	\$10,000.00	\$10,000.00
	Remove Bollard	EA	3	\$100.00	\$300.00
	Roadway Excavation (F)	CY	1150	\$60.00	\$69,000.00
	Class 2 Aggregate Base (F)	CY	790	\$60.00	\$47,400.00
	Hot Mix Asphalt (Type B)	TON	630	\$110.00	\$69,300.00
27	Roadside Sign - One Post	EA	15	\$250.00	\$3,750.00
	Roadside Sign - Two Posts	EA	1	\$400.00	\$400.00
	Paint Curb	SQFT	83	\$2.25	\$186.75
	Storm Drain System	LS	1	\$75,000.00	\$75,000.00
31	Minor Concrete (Curb)	LF	156	\$22.00	\$3,432.00
	Minor Concrete (Gutter)	SF	381	\$10.00	\$3,806.10
	Detectable Warning Surface	SQFT	297	\$45.00	\$13,365.00
	Minor Concrete (Curb and Gutter)	LF	5003	\$25.00	\$125,075.00
-	Minor Concrete (Sidewalk)	SQFT	34516	\$7.00	\$241,612.00
	Minor Concrete (Driveway & Curb Ramps)	SQFT	2367	\$15.00	\$35,505.00
	Thermoplastic Traffic Stripe	LF	3347	\$1.25	\$4,183.75
-	Thermoplastic Pavement Marking	SQFT	600	\$6.00	\$3,600.00
	Erosion Control	LS	1	\$5,000.00	\$5,000.00
	Mobilization	LS	1	\$3,000.00	\$82,500.00
40	Minor/ Supplemental Items	<u> </u>	25%	\$879,542.30	\$219,885.58
41		70	2370	φ019,042.0U	φ219,003.30
	Subtotal (Construction Costs)				\$1,161,927.88
	Construction Contingency			25% \$	290,481.97
	Total Construction Costs				\$1,452,409.84
	Total Construction Budget (Rounded)				\$1,452,500.00

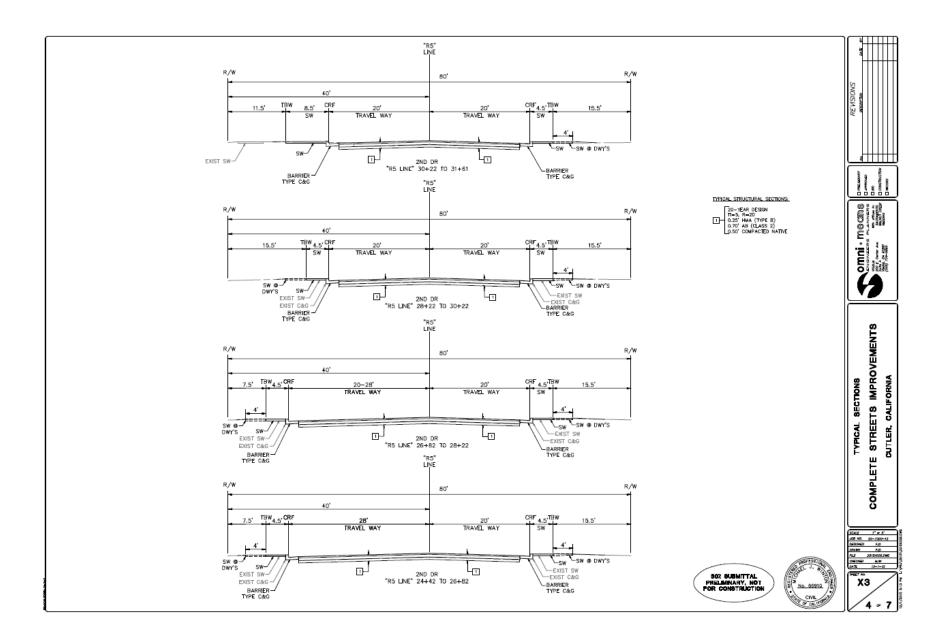
Non-	Construction Related Costs:				
No.	Item Description	Units	Quantity	Unit Cost	Total
42	Environmental Clearance	% of CON	5%	\$1,162,000.00	\$58,100.00
43	Right of Way/TCE Acquisition (Capital)	SQFT	1630	\$5.00	\$8,150.00
44	Right of Way/TCE Acquisition (Support)	Parcel	2	\$5,000.00	\$10,000.00
45	Final Engineering Design	% of CON	15%	\$1,162,000.00	\$174,300.00
46	Construction Support	% of CON	2%	\$1,162,000.00	\$23,240.00
47	Construction Management	% of CON	15%	\$1,162,000.00	\$174,300.00
48	Utility Relocations	LS	1	\$100,000.00	\$100,000.00
	Total Non-Construction Related Costs				\$548,090.00
	Total Project Capital Cost				\$ 2,000,590.00
	Rounded				\$ 2,000,000.00

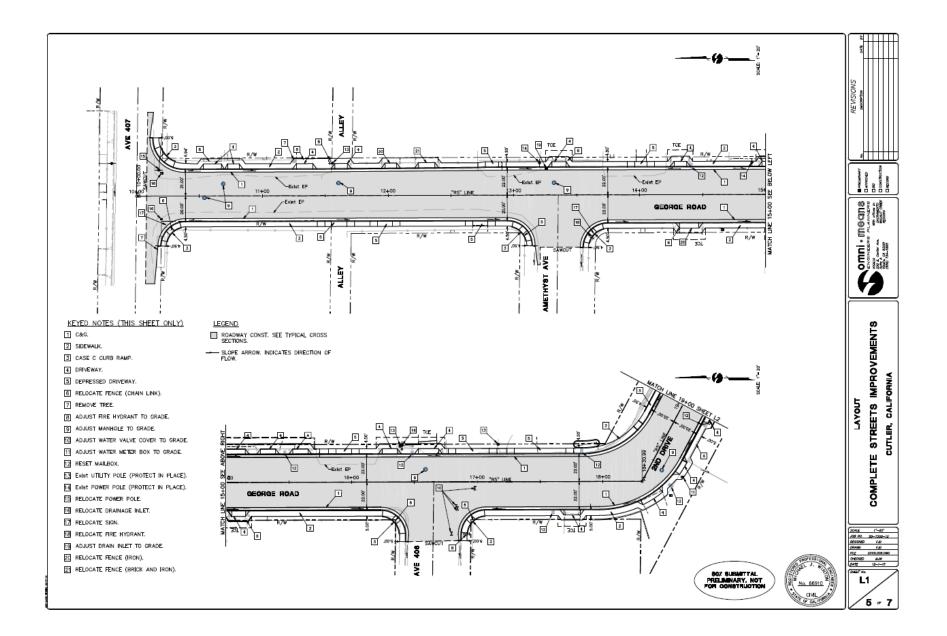
Appendix F Cutler 30% Submittal Plan Set

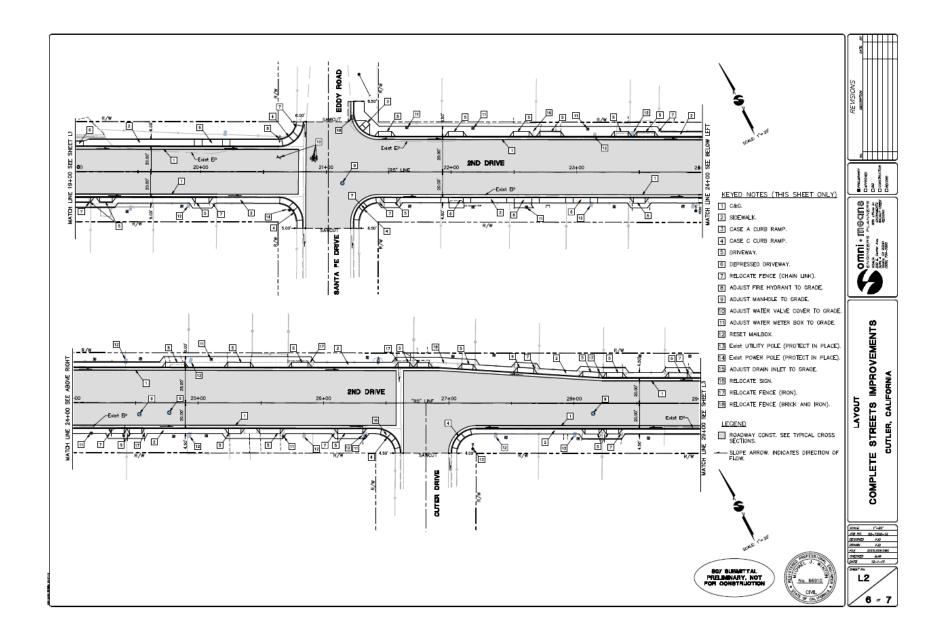


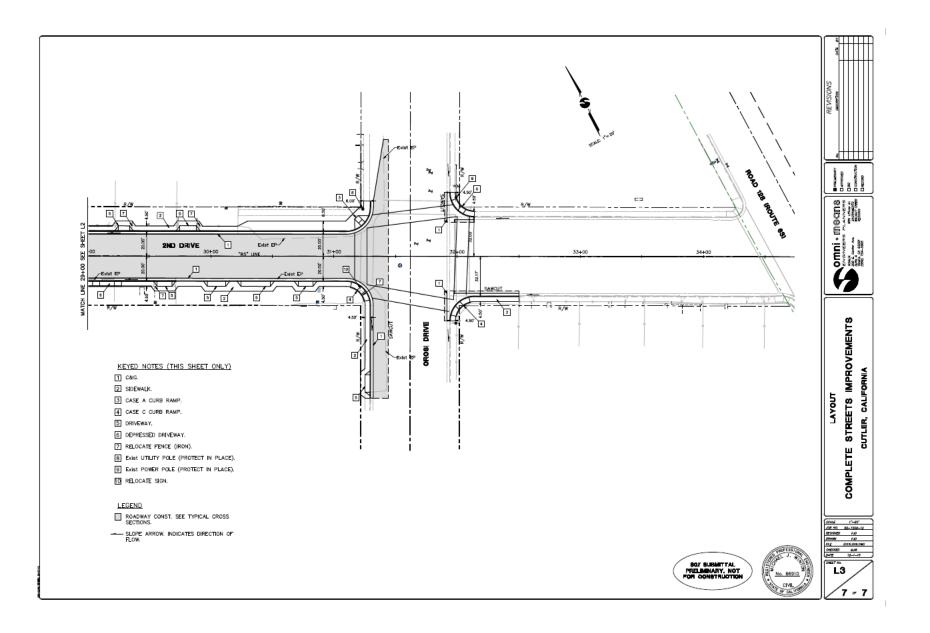


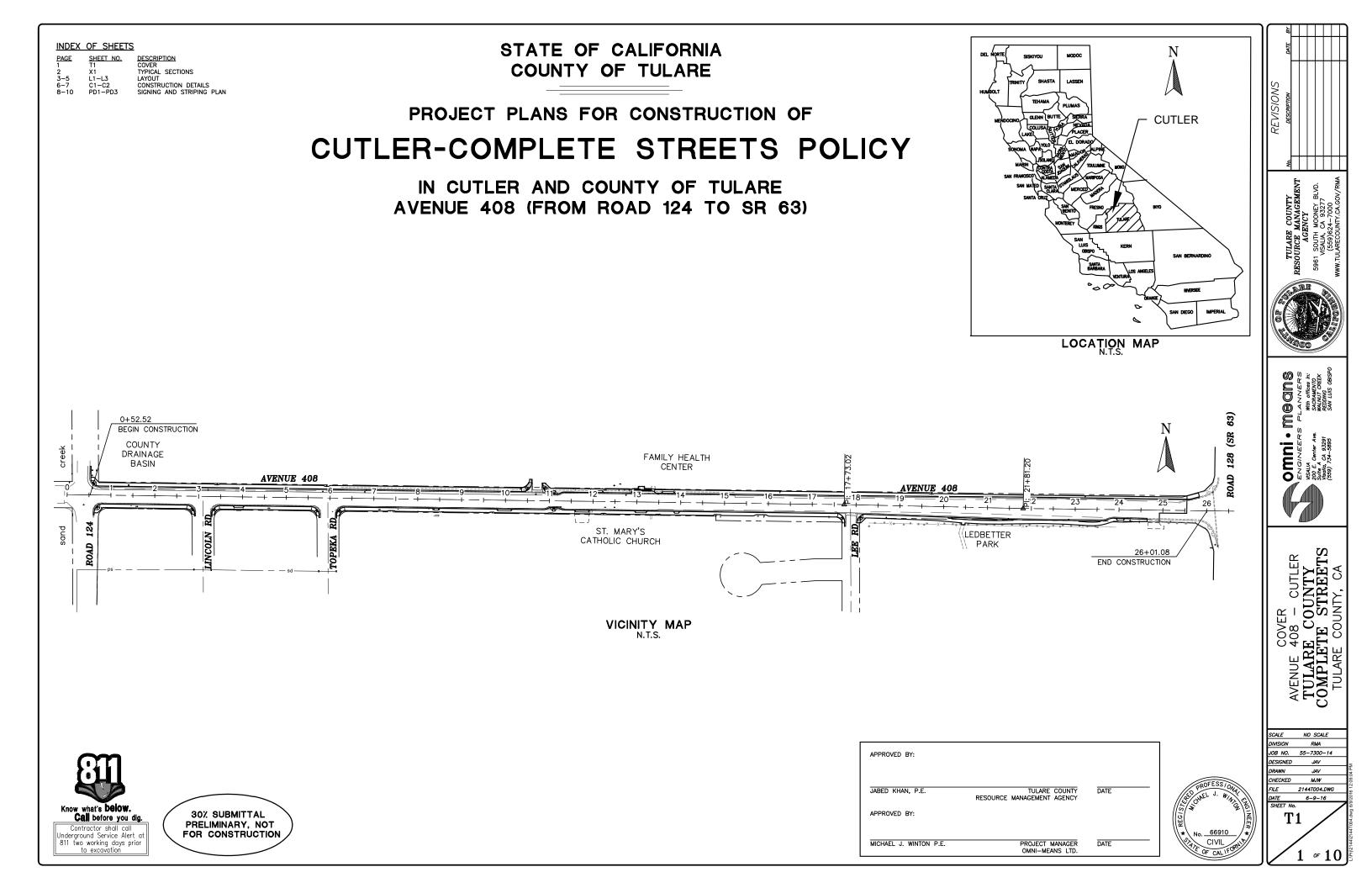


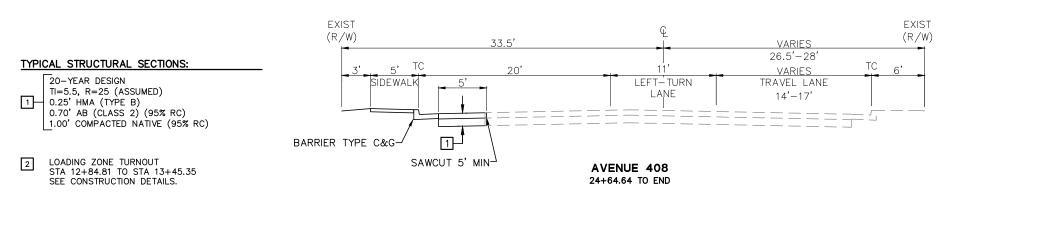


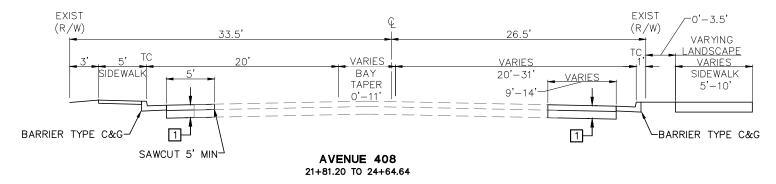


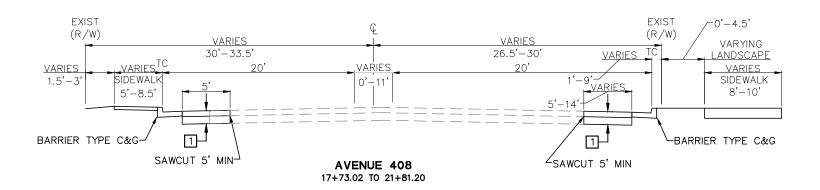


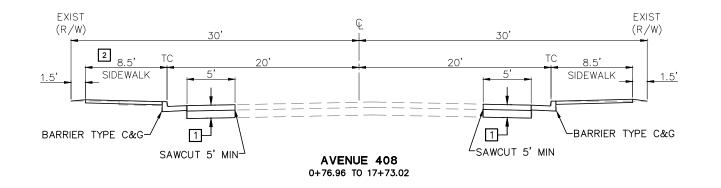








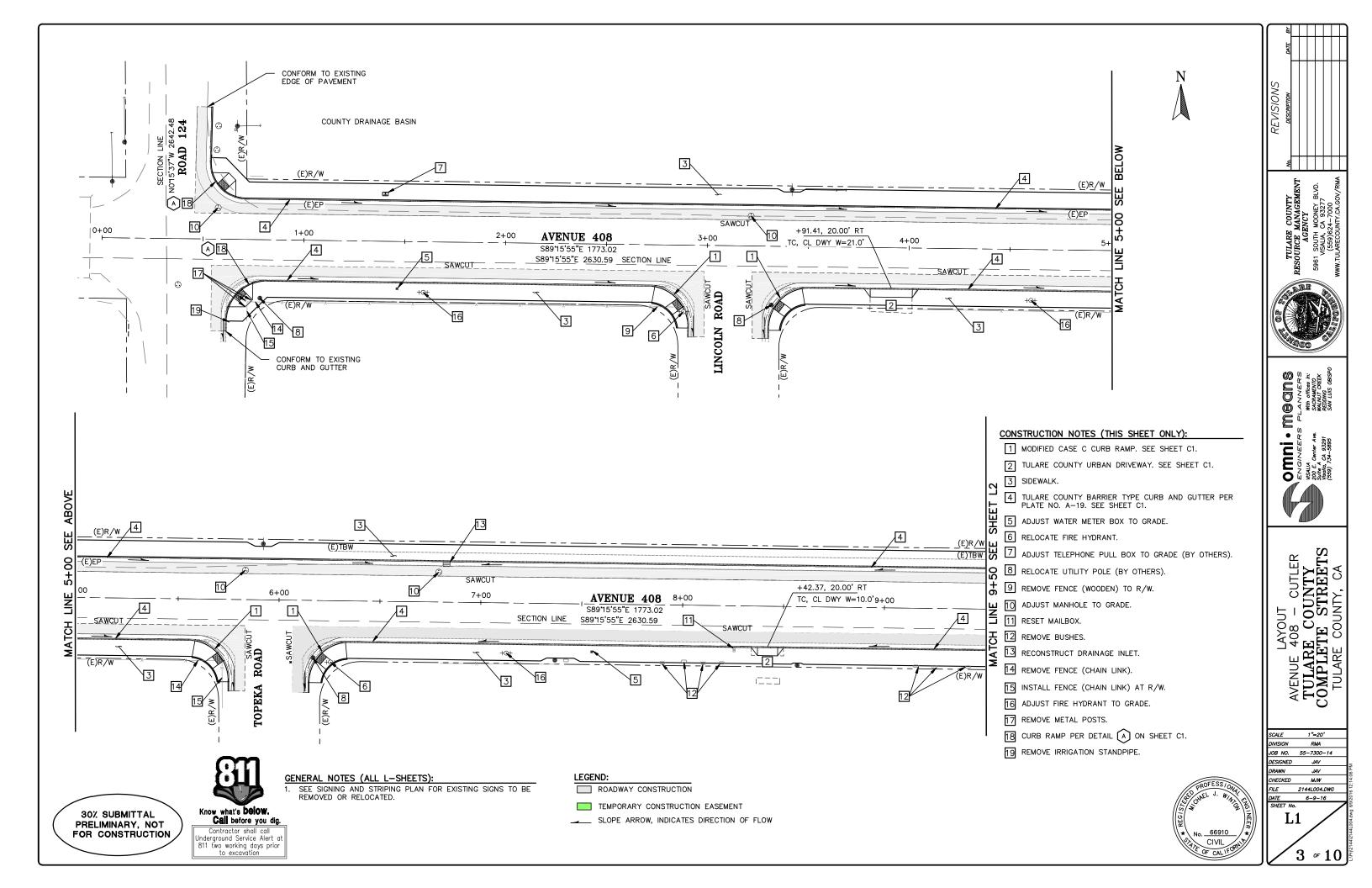


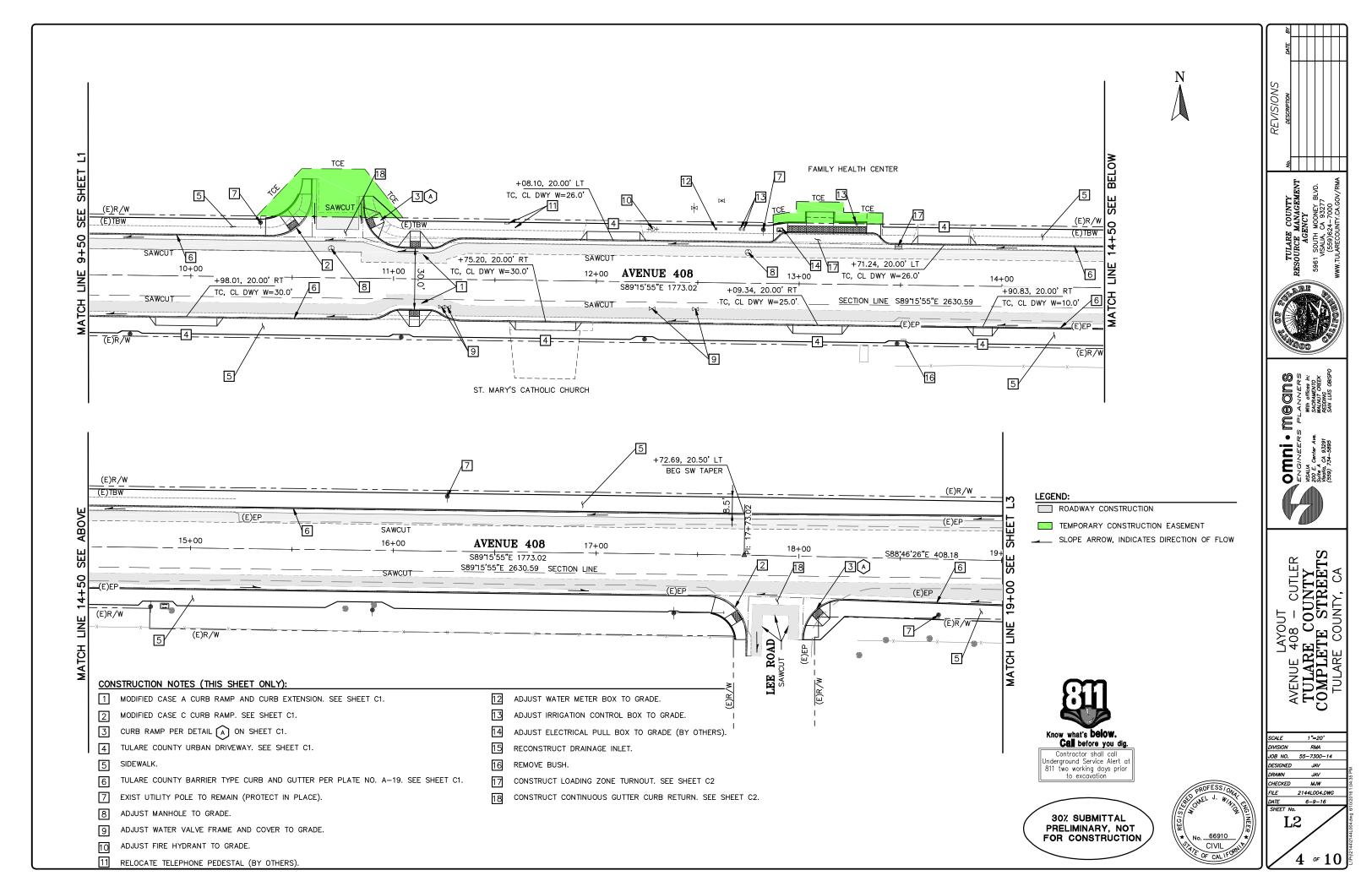


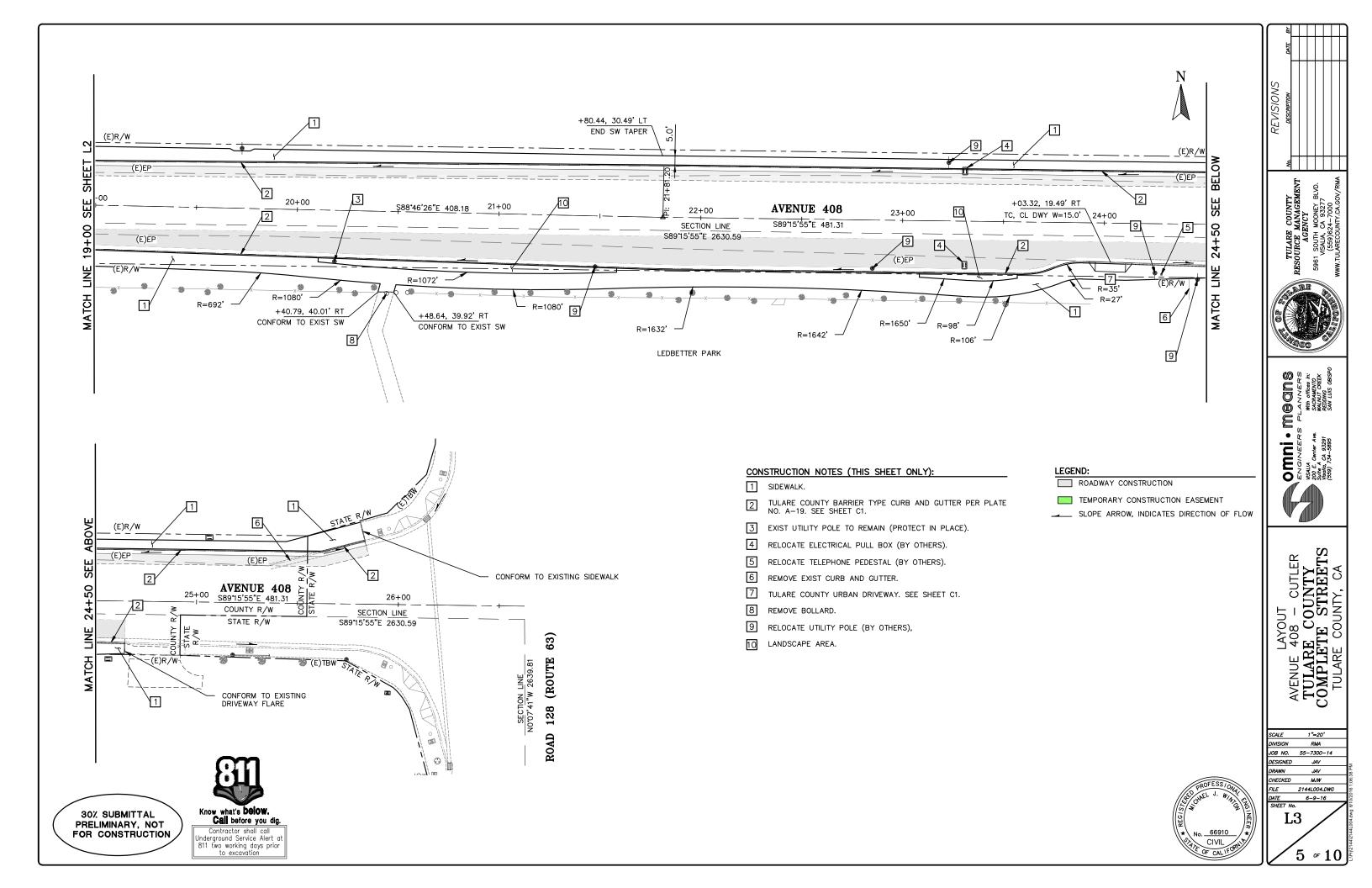
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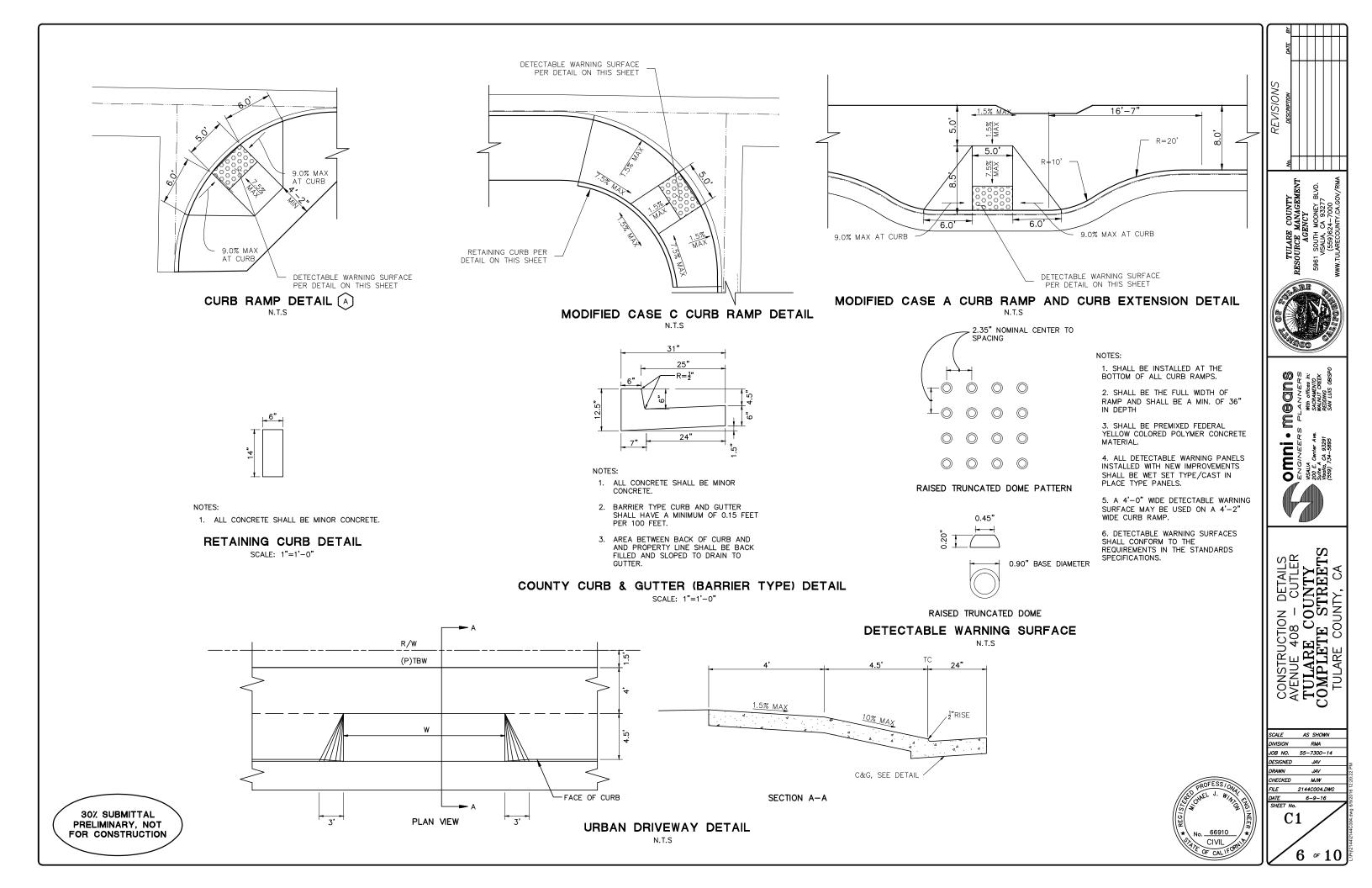


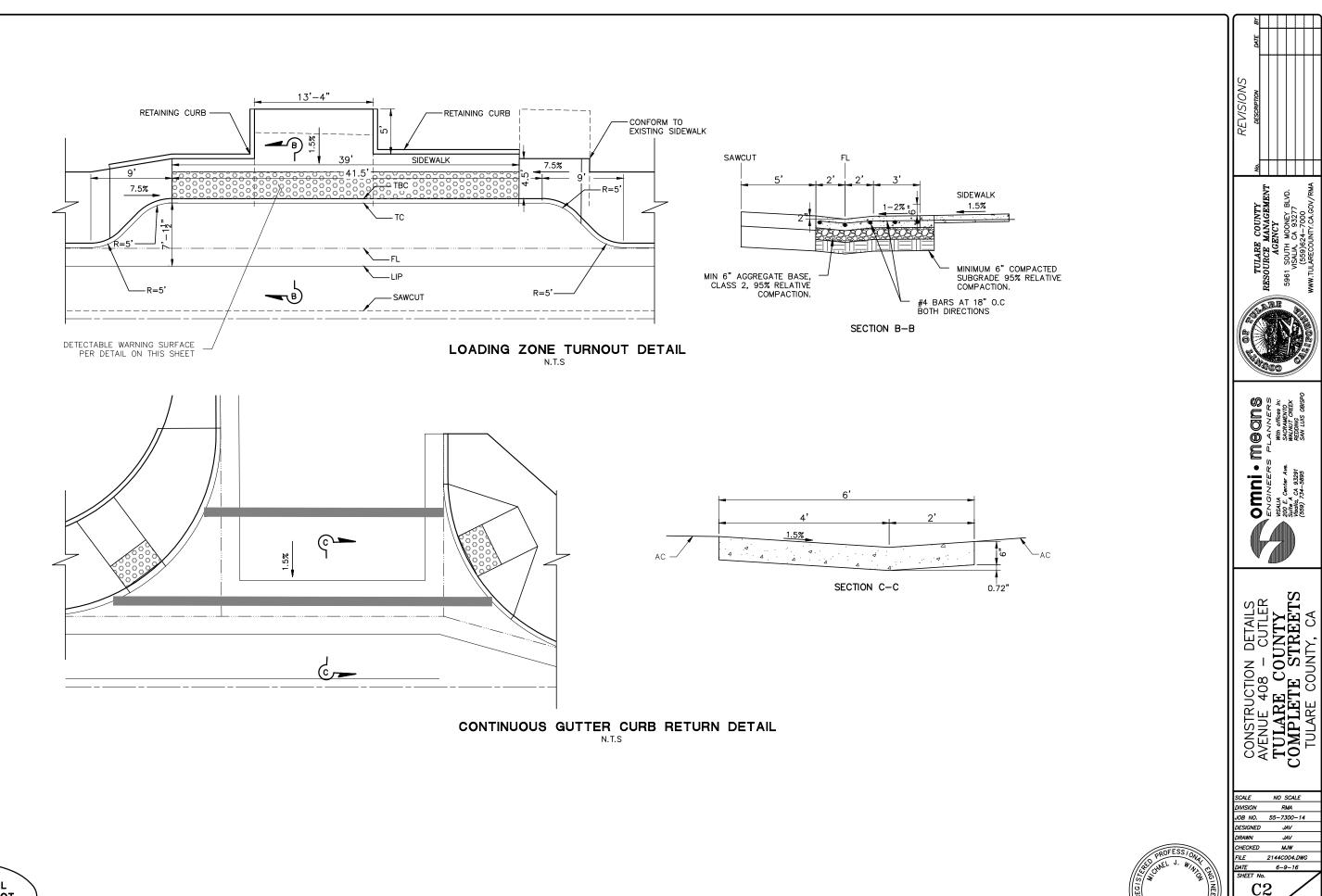












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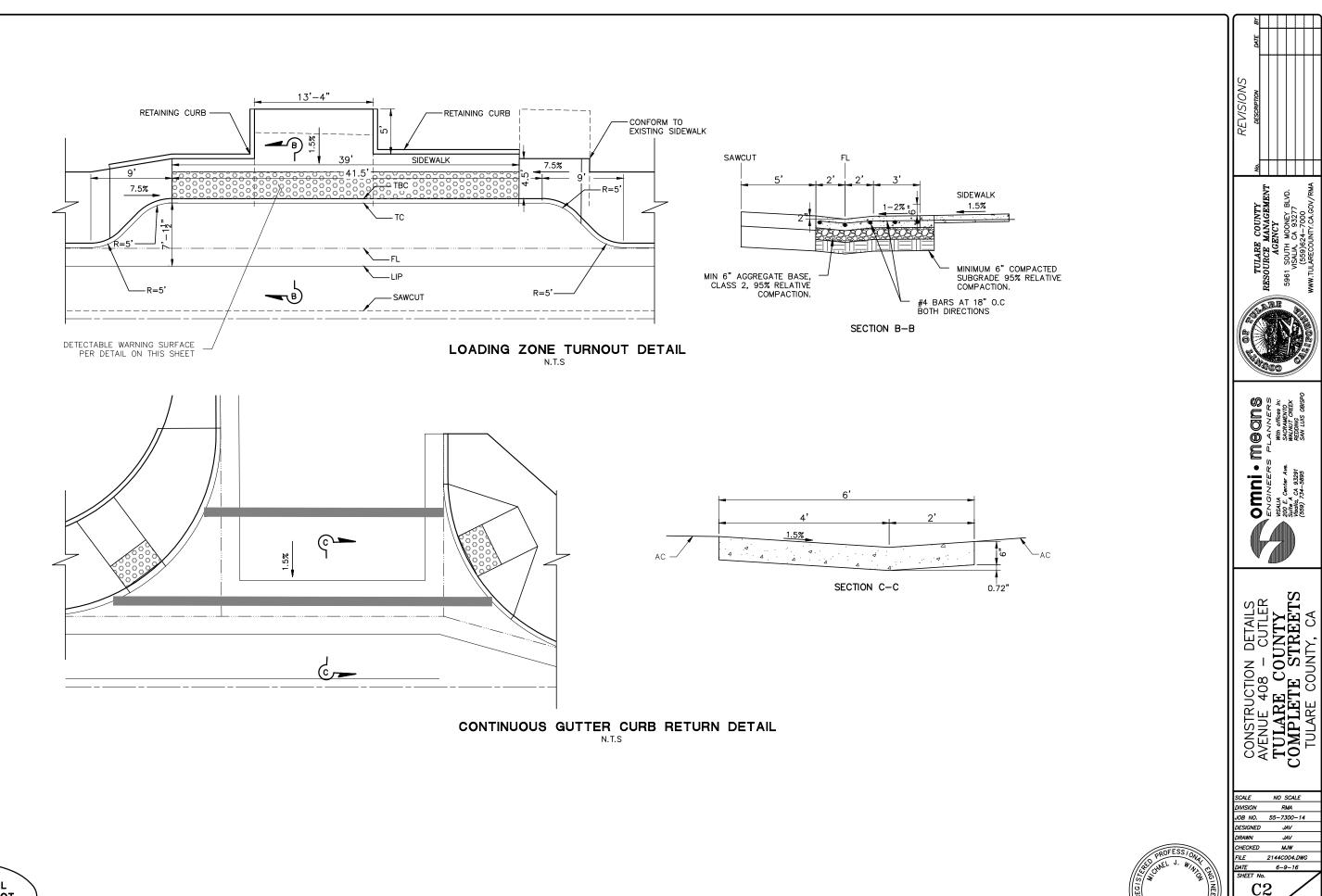


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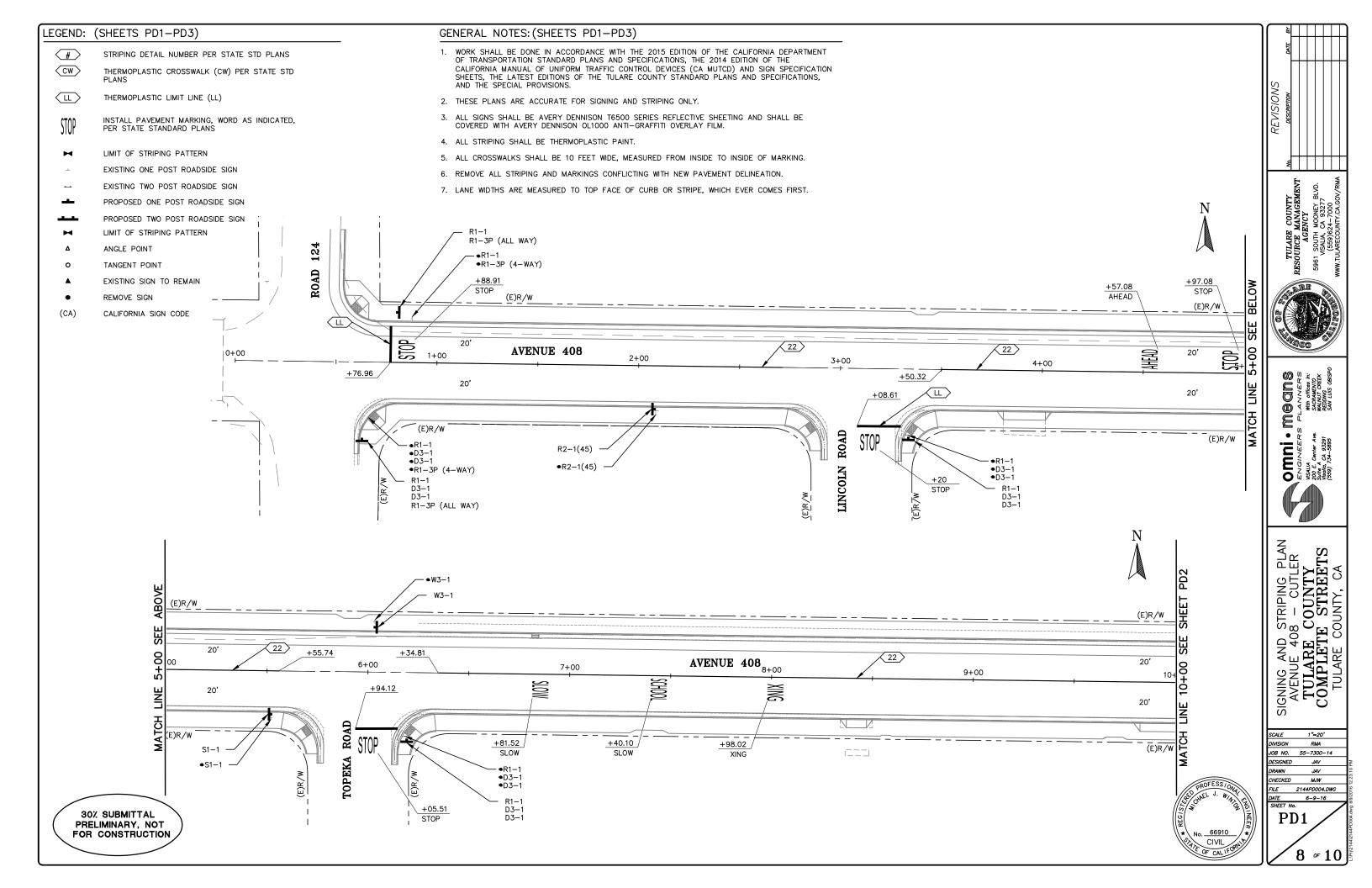


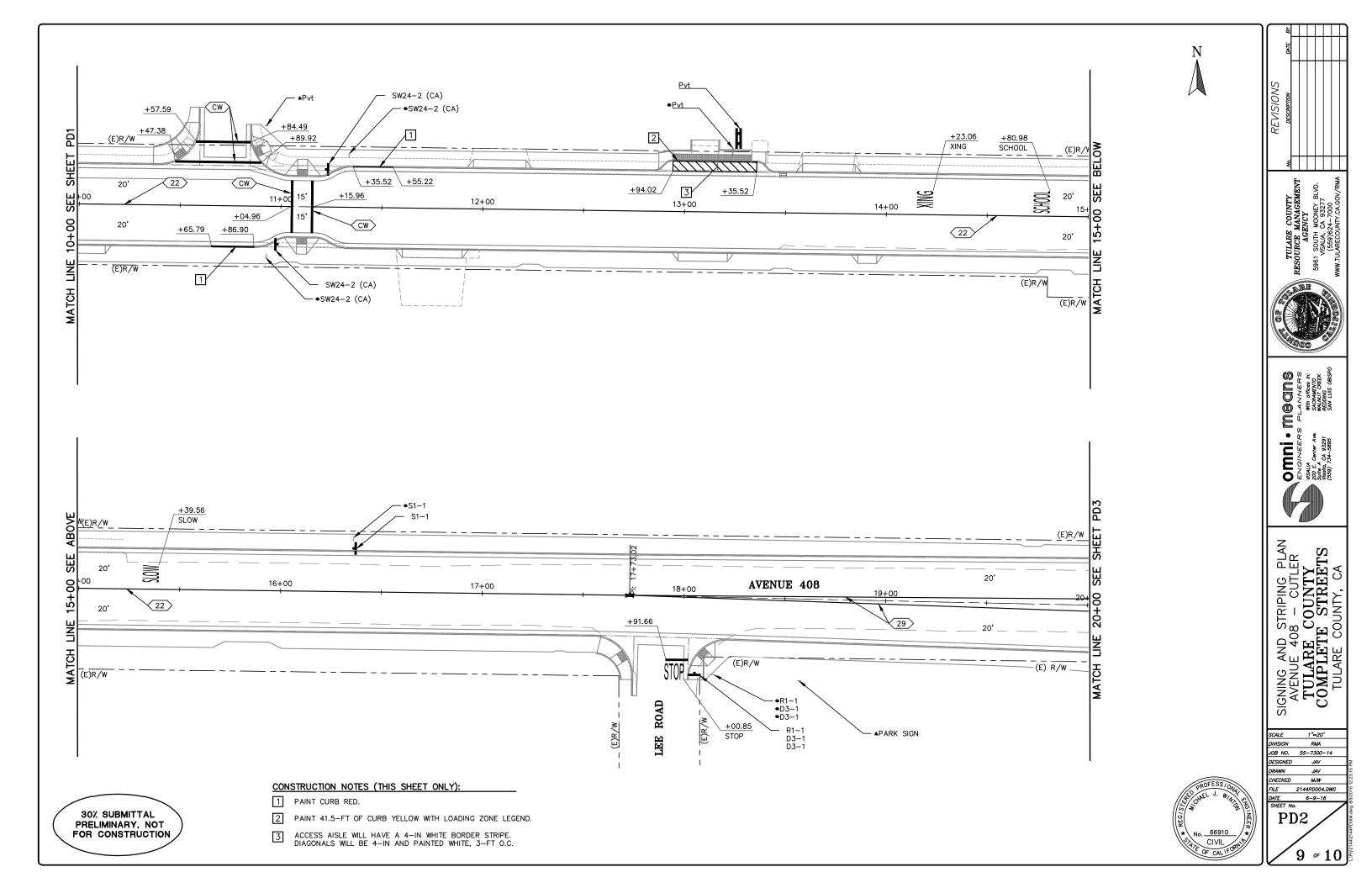
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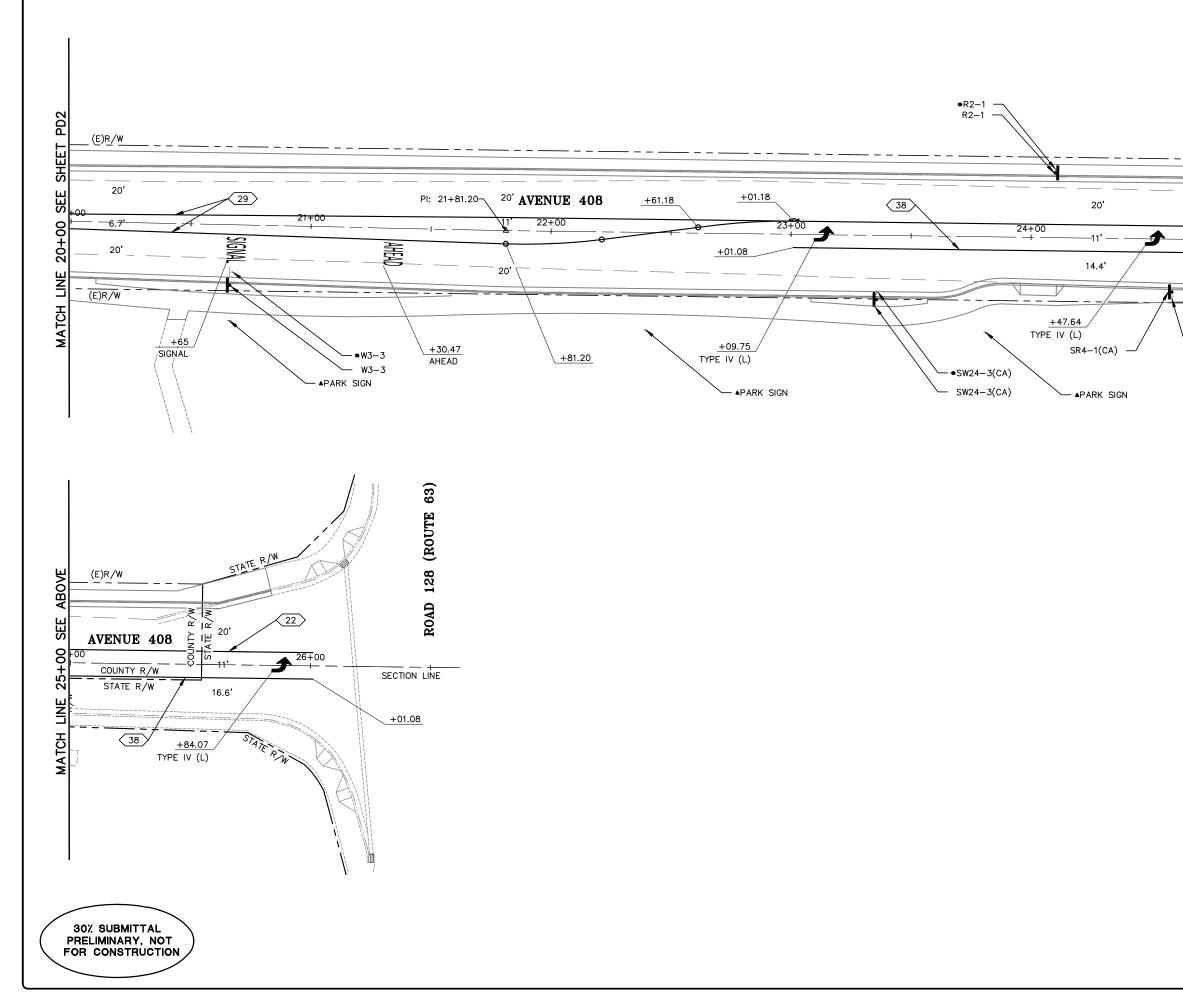
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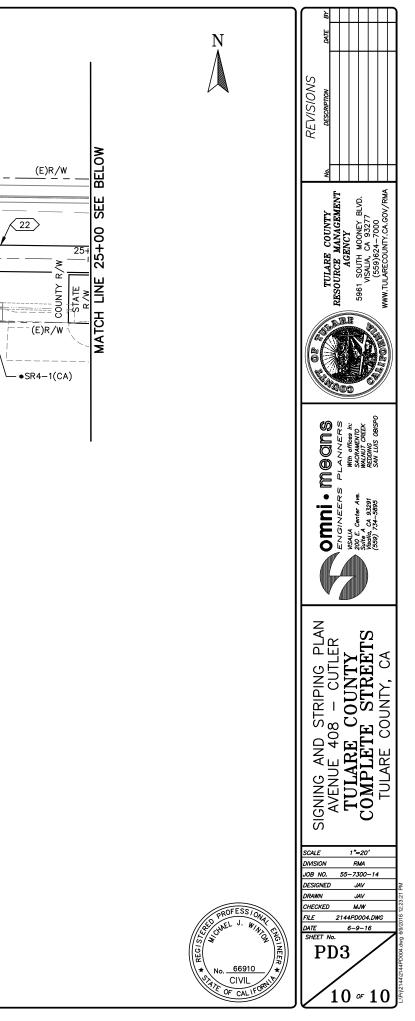
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Appendix G Cost Estimates for Orosi

		Cost Estimates for Cost Estimate	1 01081			
				Doto:	10/21/2015	
Orosi Complete Street Improvements County of Tulare				Dale.	10/21/2015	
County	of Tulare					
Constru	uction					
ITEM		ITEM DESCRIPTION	UNIT OF	ESTIMATED	ITEM	TOTAL
NO	(F)	ITEM DESCRIPTION	MEASURE	QUANTITY	PRICE	TOTAL
1	(1)	MOBILIZATION	LS	1	\$ 91 500.00	\$ 91 500
2		JOB SITE MANAGEMENT	LS	1	\$ 8 000.00	\$ 8 000
3	-	WATER POLLUTION CONTROL PROGRAM	LS	1	\$ 4 500.00	\$ 4 500
4	-	CONSTRUCTION AREA SIGNS	LS	1	\$ 10 000.00	\$ 10 000
5	-	TRAFFIC CONTROL SYSTEM	LS	1	\$ 30 000.00	\$ 30 000
6	-	RELOCATE FENCE (CHAIN LINK)	LF	286	\$ 50.00	\$ 14 300
7	-	RELOCATE FENCE (IRON)	LF	114	\$ 90.00	\$ 10 304
8	-	RELOCATE FENCE (BRICK AND IRON)	LF	105	\$ 150.00	\$ 15 695
9	-	RELOCATE FENCE (WOODEN)	LF	46	\$ 40.00	\$ 1 840
10	-	RESET MAILBOX	EA	54	\$ 300.00	\$ 16 200
11	-	RESET STREET SIGN	EA	8	\$ 500.00	\$ 4 000
12	-	REMOVE TREE	EA	15	\$ 800.00	\$ 12 000
13	-	BARRIER POST	EA	3	\$ 500.00	\$ 1 500
14	-	TYPE 3 MARKERS FOR BARRIER POSTS	EA	3	\$ 25.00	\$ 75
15	-	ADJUST DRAIN INLET TO GRADE	EA	1	\$ 1 500.00	\$ 1 500
16	-	ADJUST WATER VALVE COVER TO GRADE	EA	5	\$ 800.00	\$ 4 000
17	-	ADJUST FIRE HYDRANT TO GRADE	EA	1	\$ 2 000.00	\$ 2 000
18	-	AJUST GAS VALVE FRAME AND COVER TO GRADE	EA	3	\$ 800.00	\$ 2 400
19	-	ADJUST WATER METER BOX TO GRADE	EA	8	\$ 3 500.00	\$ 28 000
20	-	ROADSIDE DITCH	LF	5 374	\$ 10.00	\$ 53 740
21	-	CLEARING AND GRUBBING	LS	1	\$ 10 000.00	\$ 10 000
22	(F)	ROADWAY EXCAVATION	CY	2 617	\$ 60.00	\$ 157 000
23	(F)	CLASS 2 AGGREGATE BASE	CY	1 728	\$ 60.00	\$ 103 651
24	-	HOT MIX ASPHALT (TYPE A)	TON	1 475	\$ 110.00	\$ 162 250
25		12" REINFORCED CONCRETE PIPE	LF	1 024	\$ 100.00	\$ 102 400
26	-	18" REINFORCED CONCRETE PIPE	LF	82	\$ 165.00	\$ 13 530
27	-	MINOR CONCRETE (MINOR STRUCTURE-TYPE GO INLET)	EA	3	\$ 3 500.00	\$ 10 500
28	-	MINOR CONCRETE (CURB AND GUTTER/DIKE)	LF	717	\$ 25.00	\$ 17 928
29	-	MINOR CONCRETE (SIDEWALK)	SQFT	4 016	\$ 7.00	\$ 28 111
30		MINOR CONCRETE (DRIVEWAYS AND CURB RAMPS)	SQFT	2 140	\$ 15.00	\$ 32 094
31	-	DETECTABLE WARNING SURFACE	SQFT	15	\$ 45.00	\$ 675
32		SIGNING & STRIPING	LS	10	\$ 8 000.00	\$ 8 000
33	-	EROSION CONTROL	LS	1	\$ 5 000.00	\$ 5 000
34		MISCELLANEOUS ITEMS	LS	1	\$ 217 800.00	\$ 217 800
54		Total - Construction Items 1-34	10	I	ψ217 000.00	\$1 180 493
		Contingency (25%)				\$ 295 123
		Recommended Total Construction Budget			i ir	\$1 475 617
Non-Co	nstructio	n Related Costs			<u> </u>	φ1 - 13 011
ITEM		ITEM DESCRIPTION	UNIT OF	ESTIMATED	ITEM	TOTAL
NO	(F)		MEASURE	QUANTITY	PRICE	IUIAL
35	-	Environmental Clearance	% of CON	5%	\$1 180 493.46	\$ 59 025
36	-	Final Engineering Design	% of CON	15%	\$1 180 493.46	\$ 177 074
37	-	Construction Support	% of CON	2%	\$1 180 493.46	\$ 23 610
38	-	Construction Management	% of CON	15%	\$1 180 493.46	\$ 177 074
		Total - Non-Construction Items 35-38				\$ 436 783
					<u> </u> 	φ 1 00 100
		Total Construction & Non-Construction Items				\$1 912 399



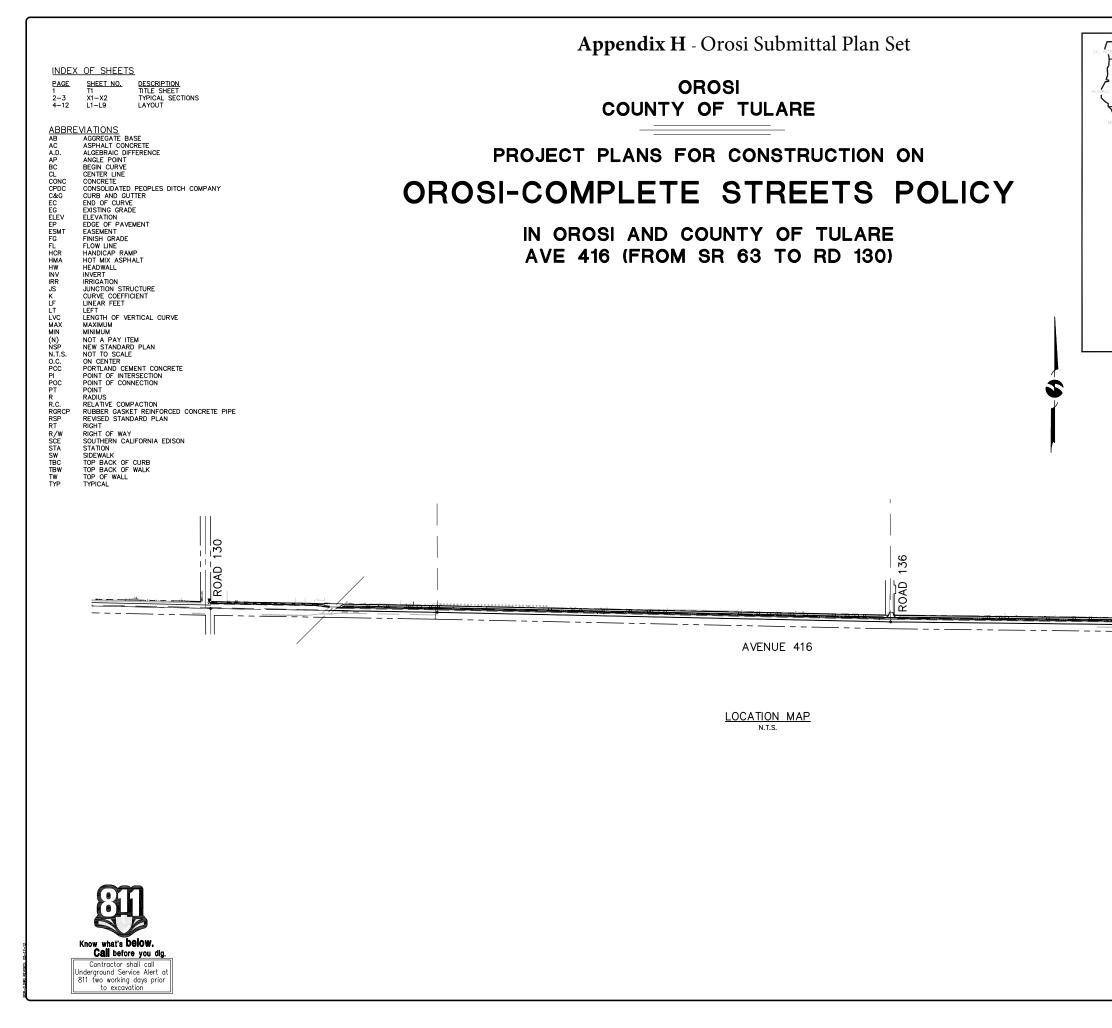
Preliminary Cost Estimate (30-Percent) Avenue 413, Orosi

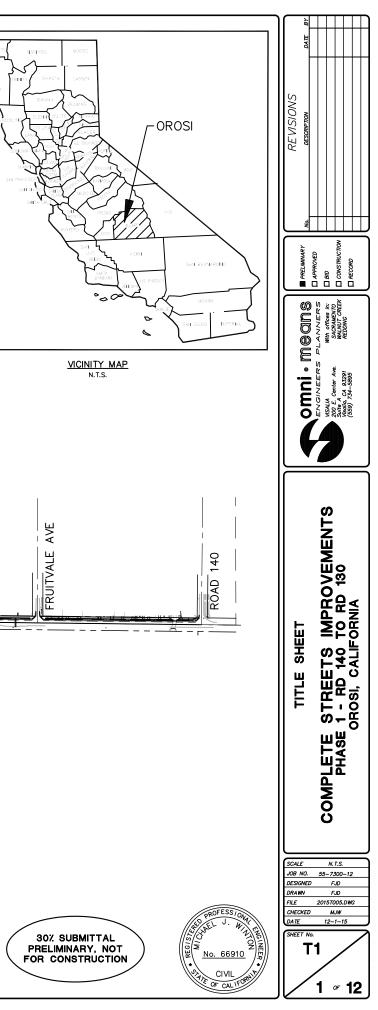
Tulare County Complete Streets

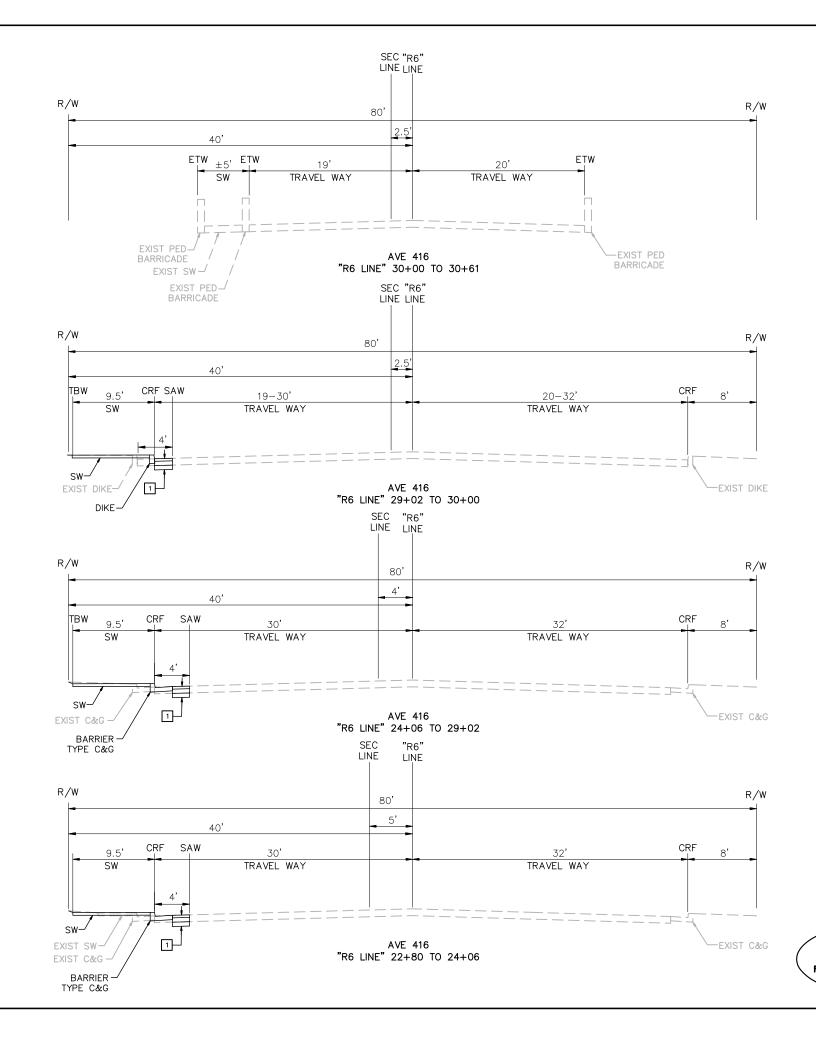
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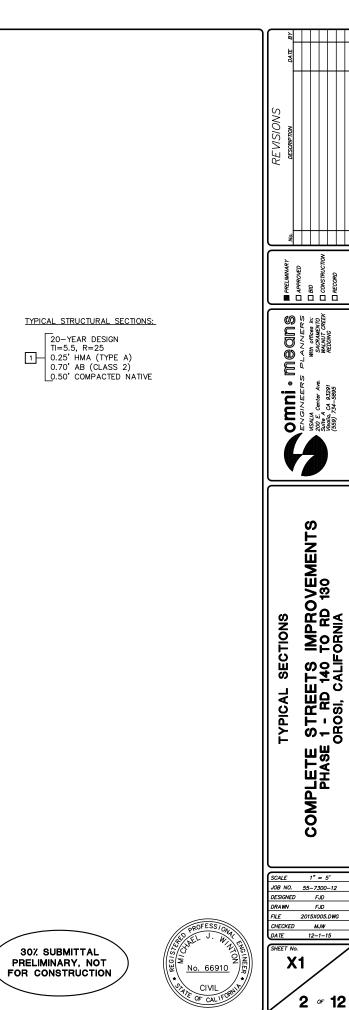
No.	Item Description	Units	Quantity	Unit Cost	Total
1	Job Site Management	LS	1	\$8,000.00	\$8,000.00
2	Construction Area Signs	LS	1	\$7,500.00	
	Traffic Control	LS	1	\$30,000.00	\$30,000.00
4	Water Pollution Control Program	LS	1	\$4,500.00	\$4,500.00
	Remove Roadside Sign	EA	8	\$130.00	\$1,040.00
	Remove Pavement Markings	SQFT	228	\$2.70	
	Remove Concrete (Curb & Gutter)	LF	3750	\$15.00	
	Remove Concrete Sidewalk	SQFT	6400	\$4.50	\$28,800.00
9	Reconstruct Inlet	EA	4	\$3,500.00	\$14,000.00
10	Reset Mailbox	EA	21	\$300.00	\$6,300.00
	Relocate Chain Link Fence	LF	400	\$50.00	\$20,000.00
	Relocate Iron Fence	LF	340	\$90.00	\$30,600.00
13	Relocate Wooden Fence	LF	80	\$40.00	\$3,200.00
14	Relocate Brick Posts and Iron Fence	LF	80	\$150.00	\$12,000.00
	Relocate Water Valve	EA	1	\$1,400.00	\$1,400.00
	Relocate Light Pole	EA	1	\$1,500.00	
	Relocate Irrigation Structure	LS	1	\$20,000.00	\$20,000.00
	Relocate Fire Hydrant	EA	2	\$6,000.00	\$12,000.00
	Adjust Inlet	EA	1	\$3,000.00	\$3,000.00
	Adjust Manhole to Grade	EA	5	\$1,200.00	\$6,000.00
	Adjust Valve Frame and Cover to Grade	EA	9	\$1,200.00	\$10,800.00
	Adjust Water Meter Box to Grade	EA	11	\$800.00	. ,
	Adjust Pullbox to Grade	EA	3	\$850.00	\$2,550.00
	Adjust Fire Hydrant to Grade	EA	4	\$5,500.00	\$22,000.00
	Clearing and Grubbing	LS	1	\$11,000.00	
	Remove Tree	EA	6	\$1,400.00	\$8,400.00
27	Roadway Excavation (F)	CY	720	\$60.00	
	Erosion Control	LS	1	\$5,000.00	\$5,000.00
	Class 2 Aggregate Base (F)	CY	600	\$60.00	\$36,000.00
	Hot Mix Asphalt (Type B)	TON	480	\$110.00	\$52,800.00
	Roadside Sign - One Post	EA	24	\$250.00	\$6,000.00
	Storm Drain System	LS	1	\$75,000.00	\$75,000.00
	Minor Concrete (Curb)	LF	190	\$22.00	\$4,180.00
	Minor Concrete (Gutter)	SQFT	590	\$10.00	\$5,900.00
	Detectable Warning Surface	SQFT	155	\$45.00	\$6,975.00
36	Minor Concrete (Curb and Gutter)	LF	4390	\$25.00	\$109,750.00
	Minor Concrete (Driveway & Curb Ramps)	SQFT	4970	\$15.00	\$74,550.00
	Minor Concrete (Sidewalk)	SQFT	31270	\$7.00	
	Thermoplastic Traffic Stripe	LF	4830	\$1.25	\$6,037.50
	Thermoplastic Pavement Marking	SQFT	496	\$6.00	\$2,976.00
	Mobilization	LS	1	\$92,800.00	\$92,800.00
42	Minor/ Supplemental Items	%	0	\$977,514.10	\$244,378.53
	Subtotal (Construction Costs)				\$1,314,692.63
	Construction Contingency			25%	\$ 328,673.16
	Total Construction Costs				\$1,643,365.78
	Total Construction Budget (Rounded)				\$1,643,400.00

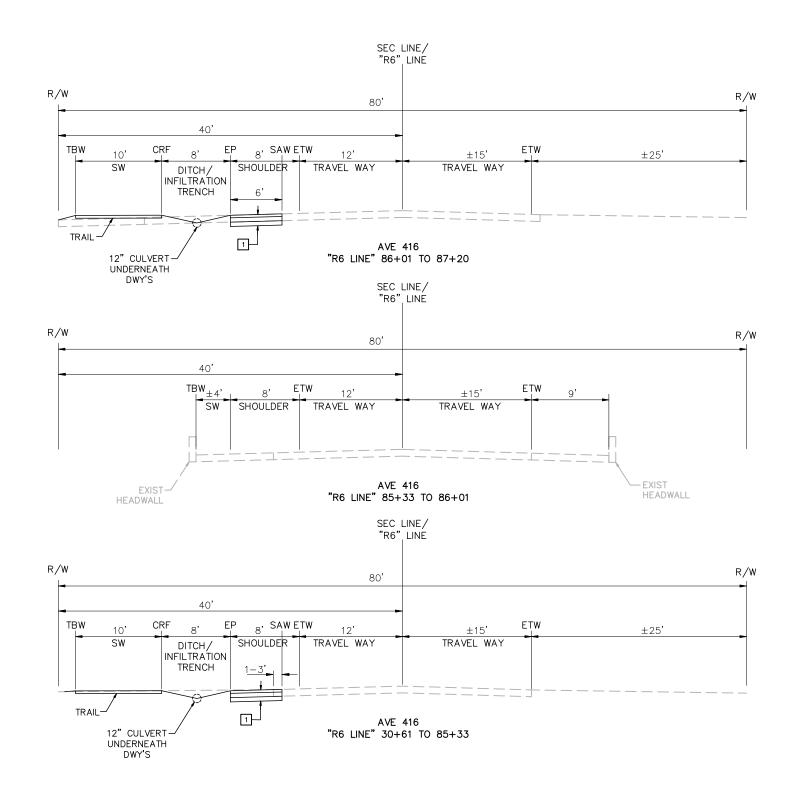
Non-	Construction Related Costs:				
No.	Item Description	Units	Quantity	Unit Cost	Total
42	Environmental Clearance	% of CON	5%	\$1,162,000.00	\$58,100.00
43	Right of Way/TCE Acquisition (Capital)	SQFT	1630	\$5.00	\$8,150.00
44	Right of Way/TCE Acquisition (Support)	Parcel	2	\$5,000.00	\$10,000.00
45	Final Engineering Design	% of CON	15%	\$1,162,000.00	\$174,300.00
46	Construction Support	% of CON	2%	\$1,162,000.00	\$23,240.00
47	Construction Management	% of CON	15%	\$1,162,000.00	\$174,300.00
48	Utility Relocations	LS	1	\$100,000.00	\$100,000.00
	Total Non-Construction Related Costs				\$548,090.00
	Total Project Capital Cost				\$ 2,000,590.00
	Rounded				\$ 2,000,000.00

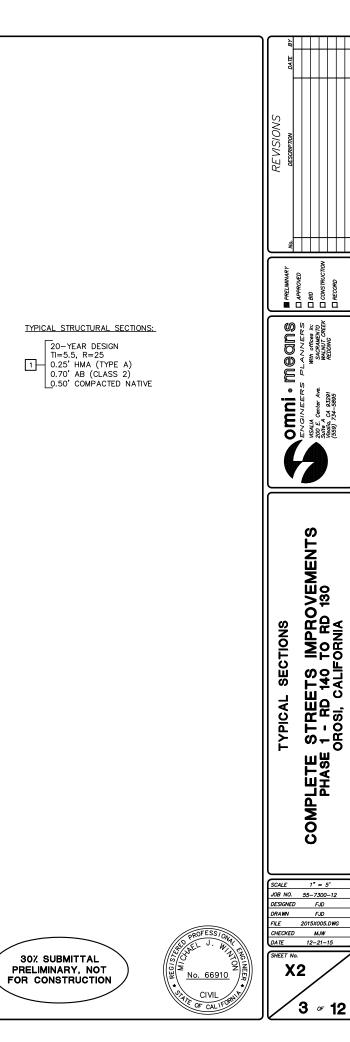


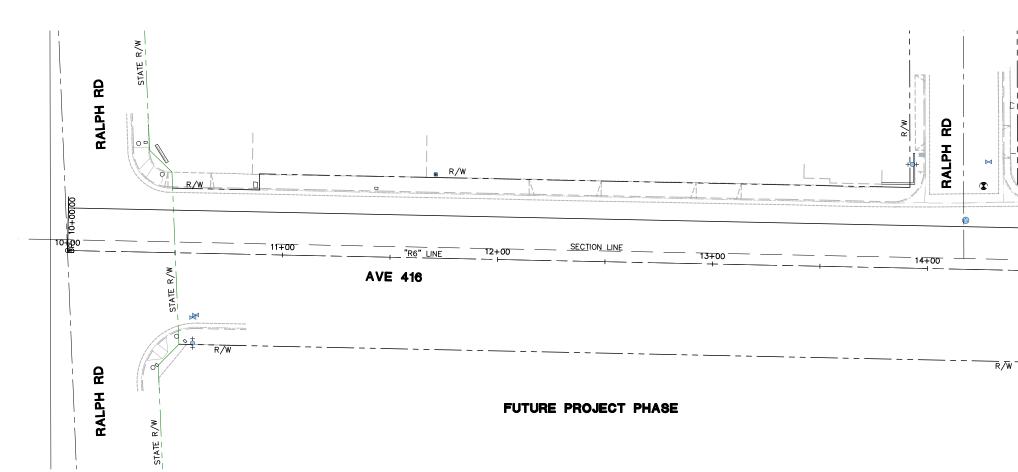


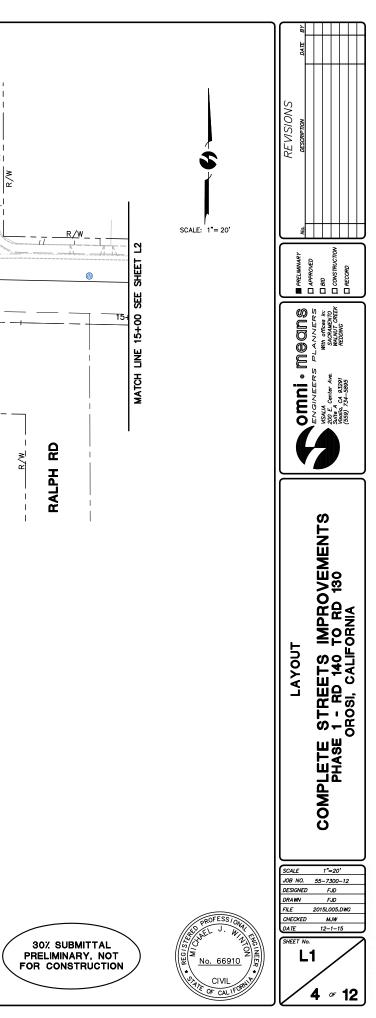


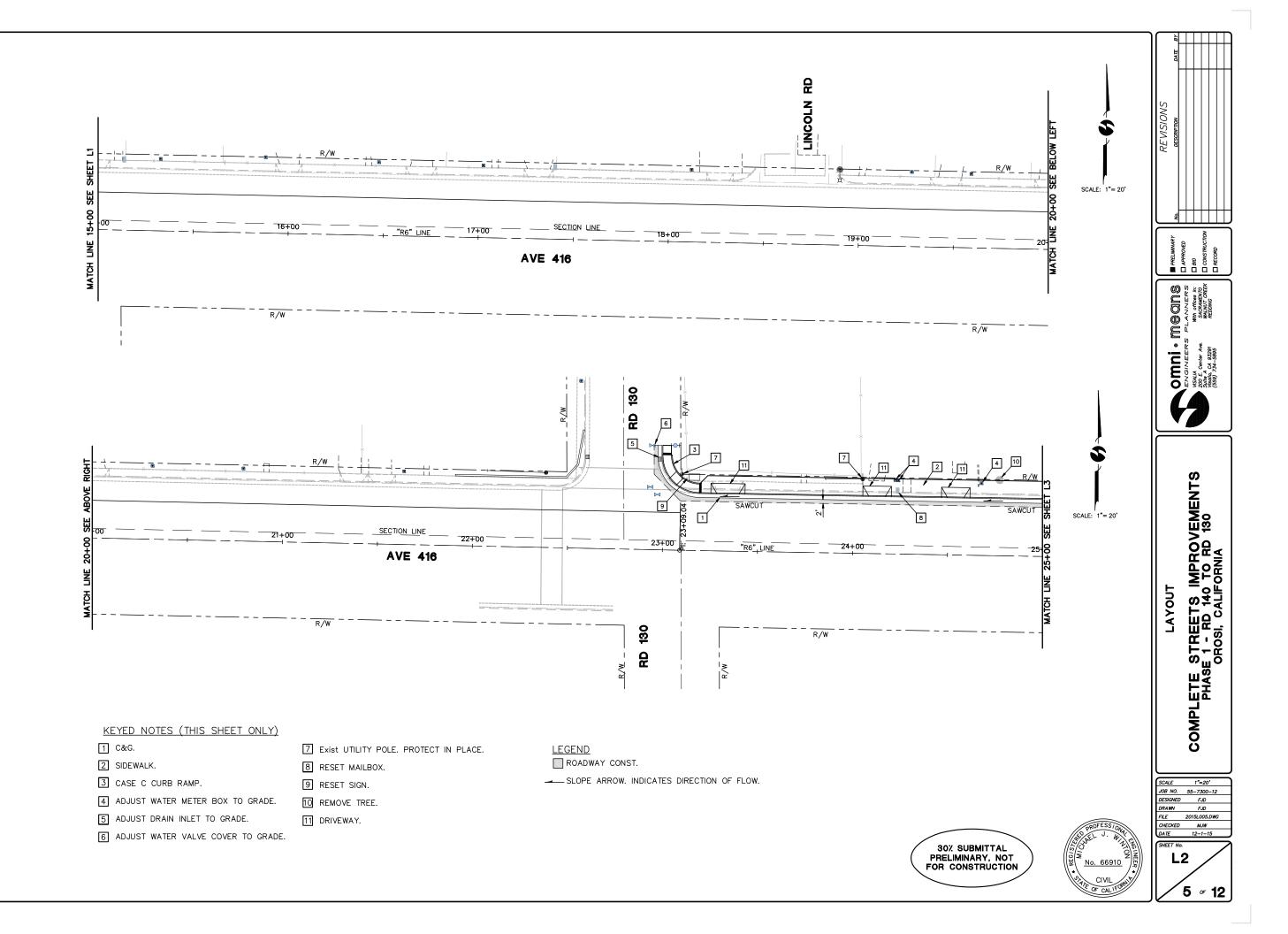


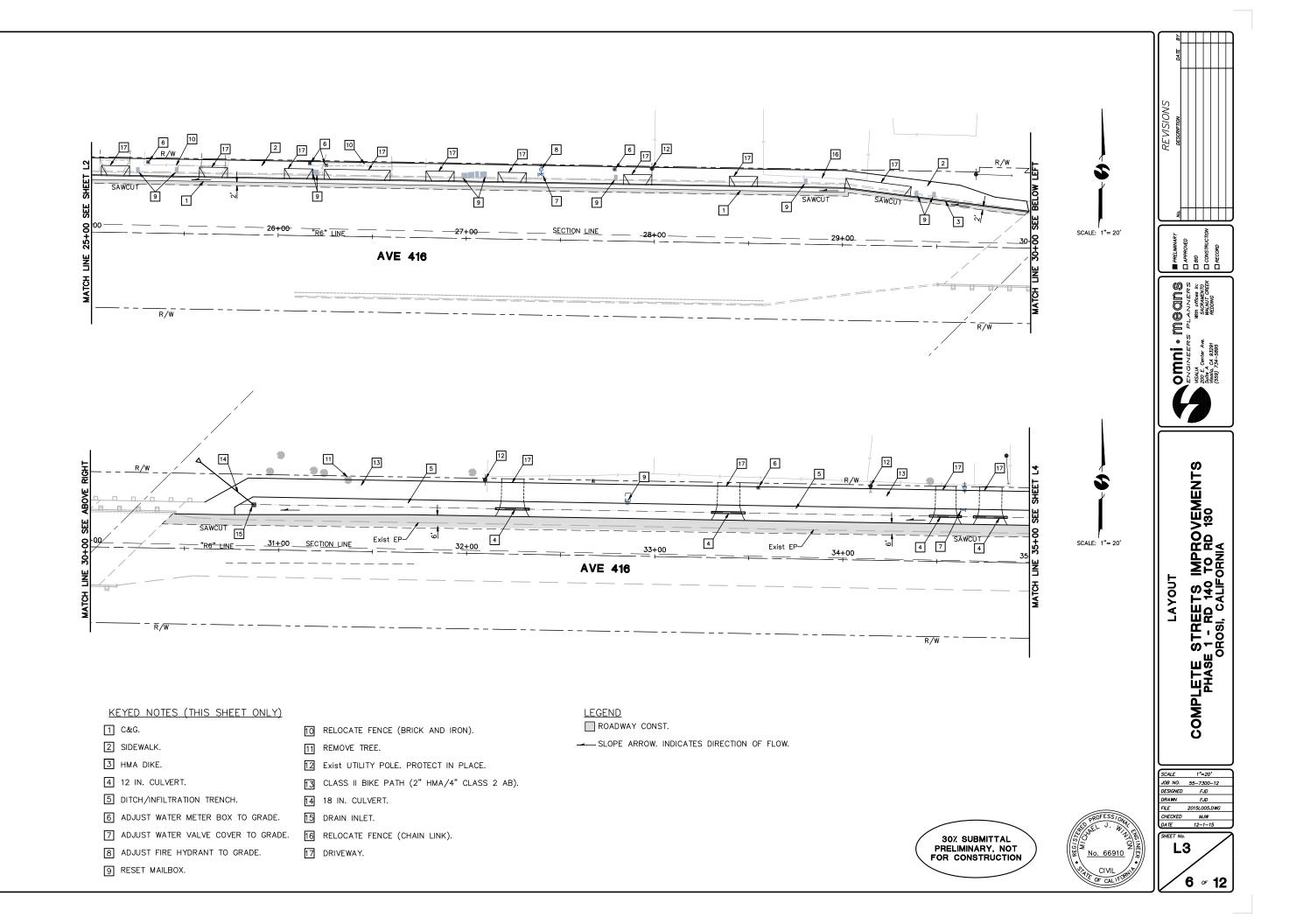




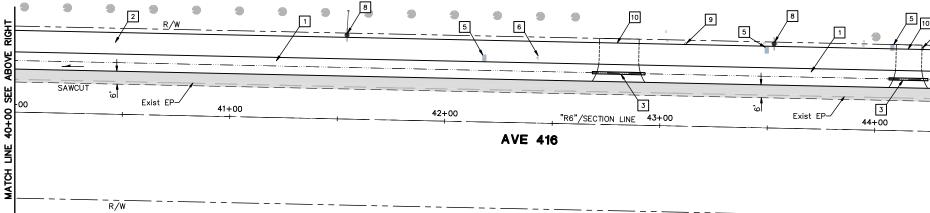




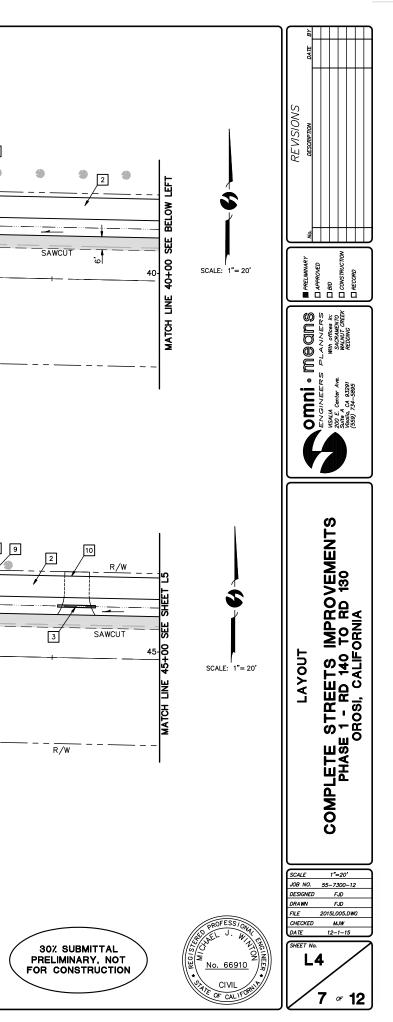


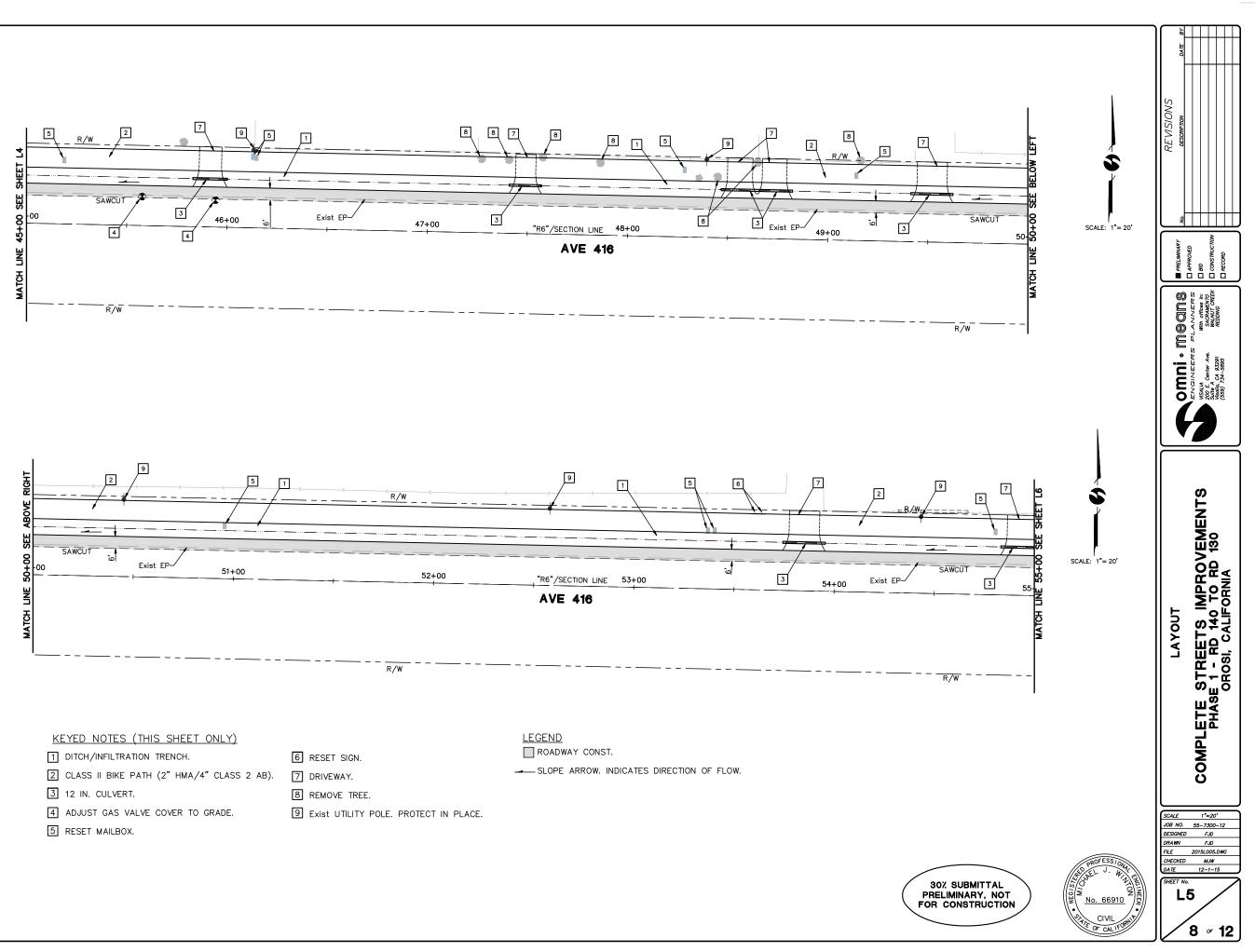


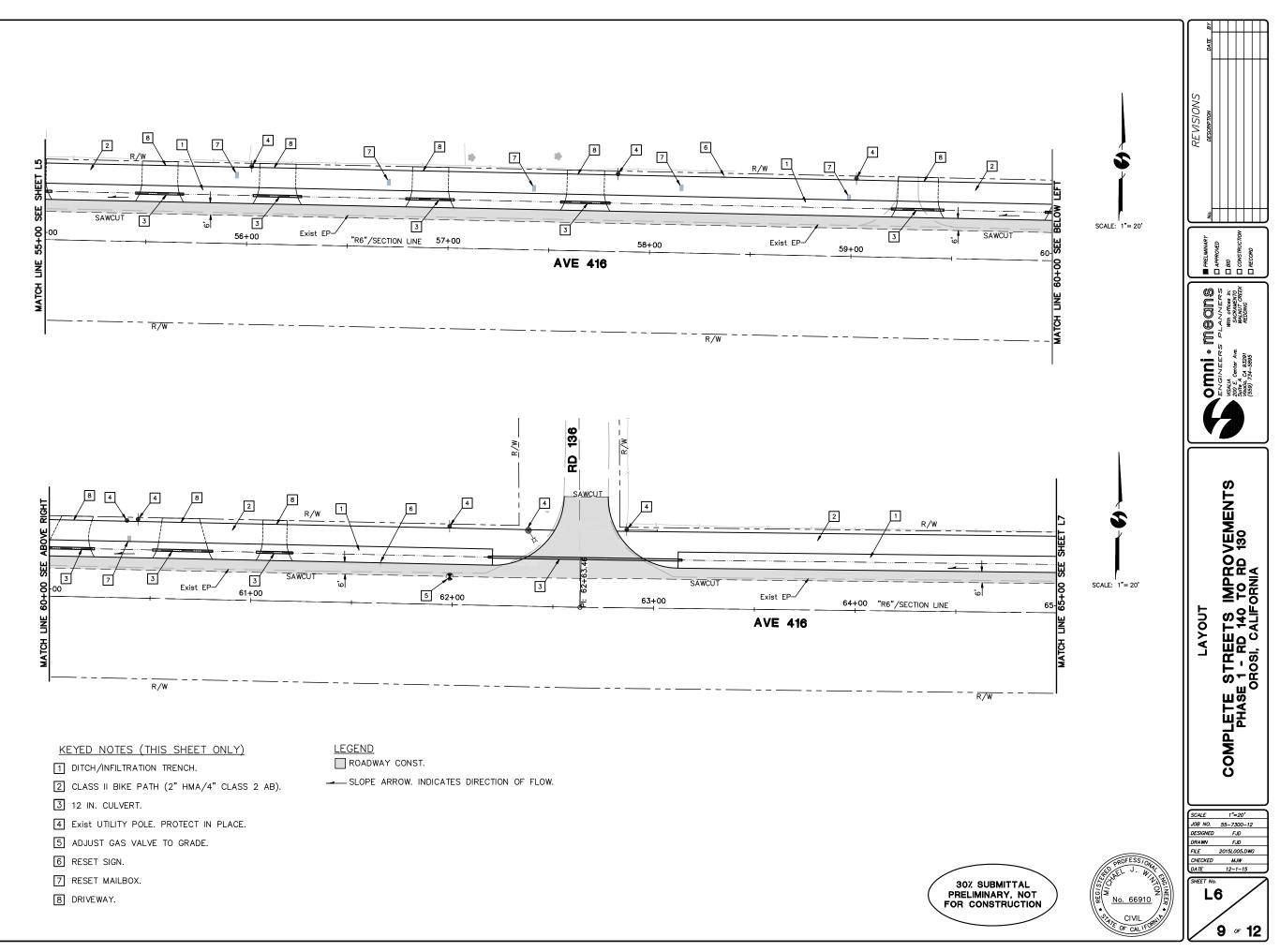
8 8 7 4 10 🗶 2 🕈 10 1 9 . • 1 8 5 R/W SAWCUT 3 Exist EP-3 ဖ 3 38+00 Exist EP-/ 800 36+00 37+00 "R6"/SECTION LINE 39+00 AVE 416 R/W R/W

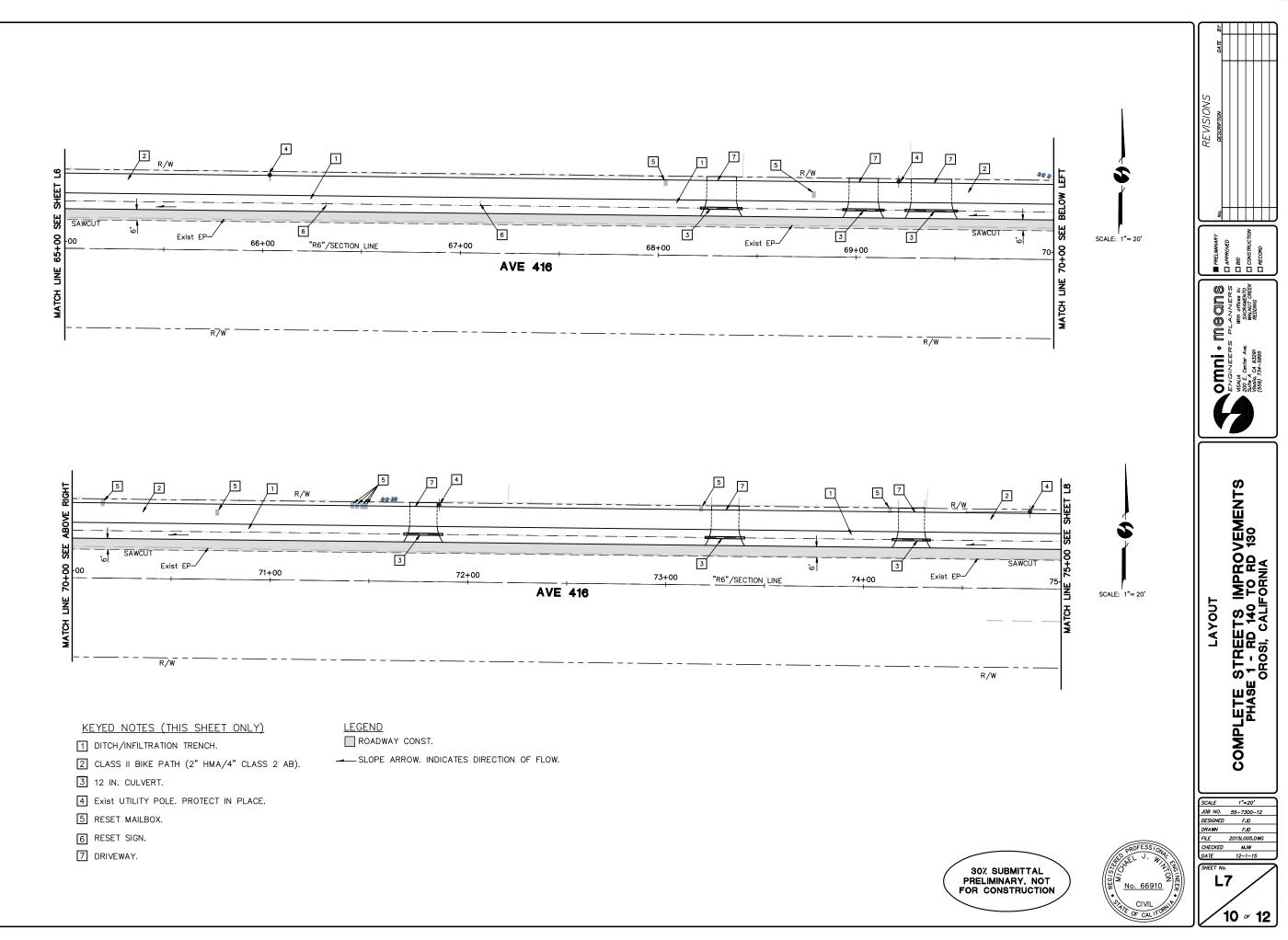


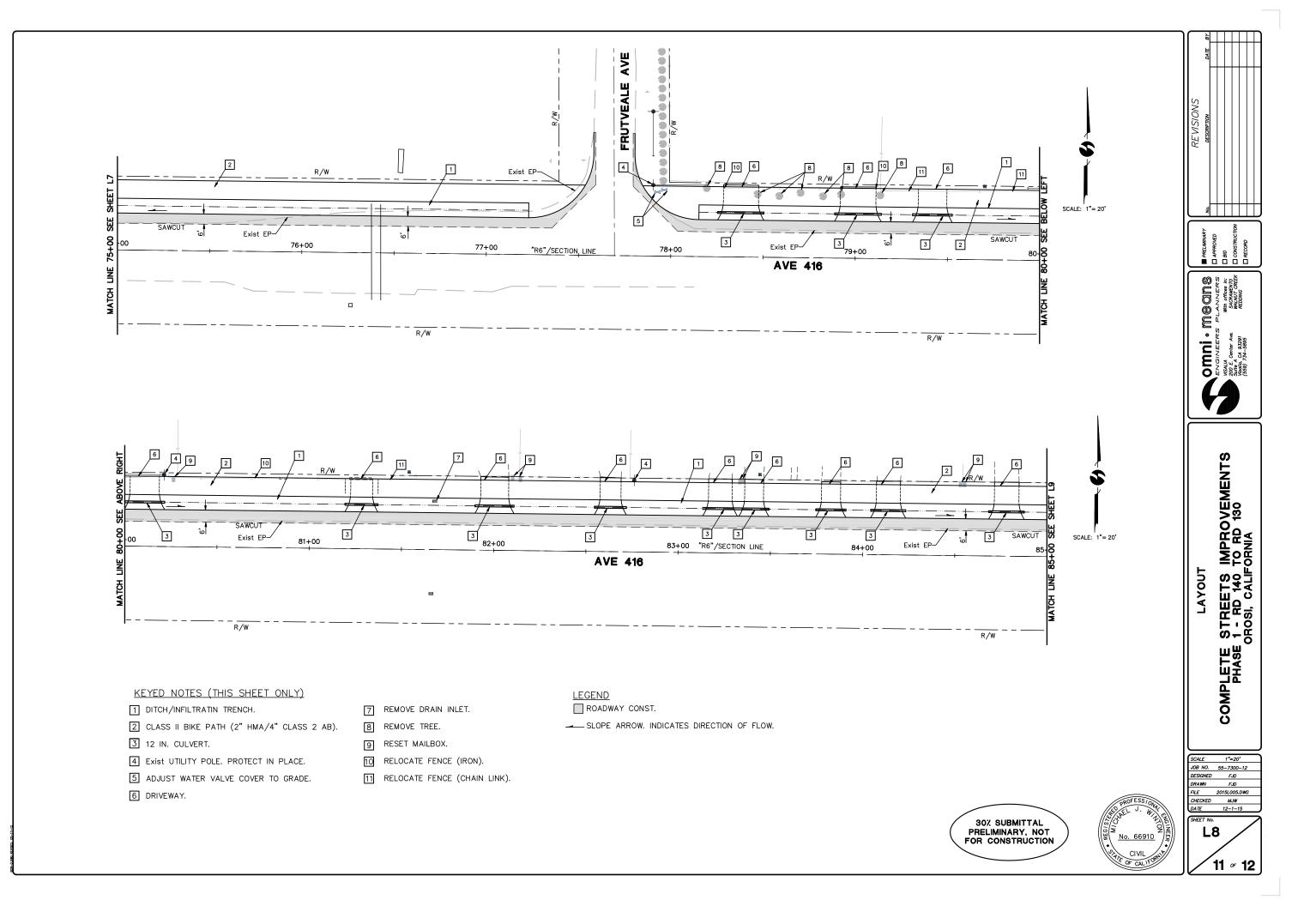
<u>KEYED NOTES (THIS SHEET ONLY)</u>		
1 DITCH/INFILTRATION TRENCH.	6 RESET SIGN.	LEGEND ROADWAY CONST.
2 CLASS II BIKE PATH (2" HMA/4" CLASS 2 AB).	7 REMOVE TREE.	
3 12 IN. CULVERT.	8 Exist UTILITY POLE. PROTECT IN PLACE.	
4 RELOCATE FENCE (WOODEN).	9 Exist POST. PROTECT IN PLACE.	
5 RESET MAILBOX.	10 DRIVEWAY.	

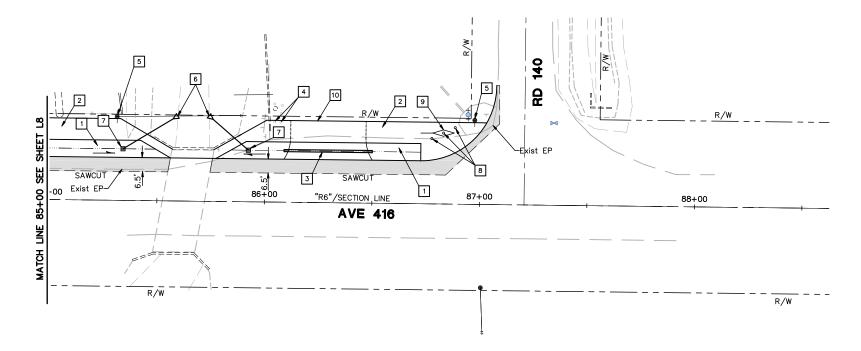






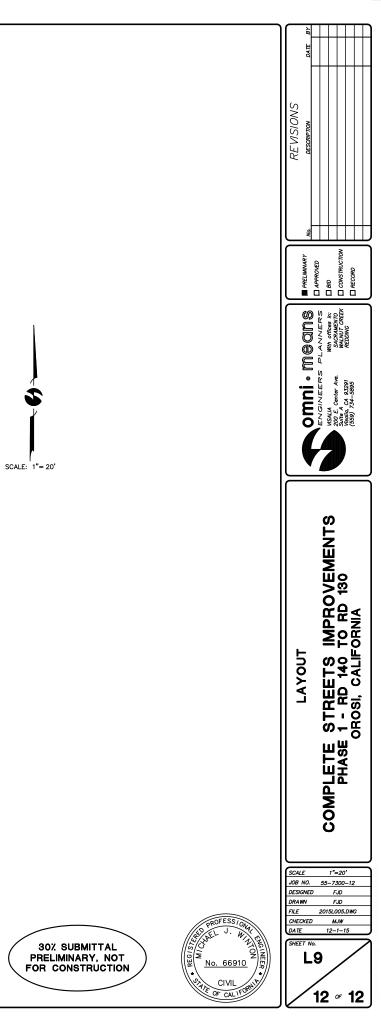


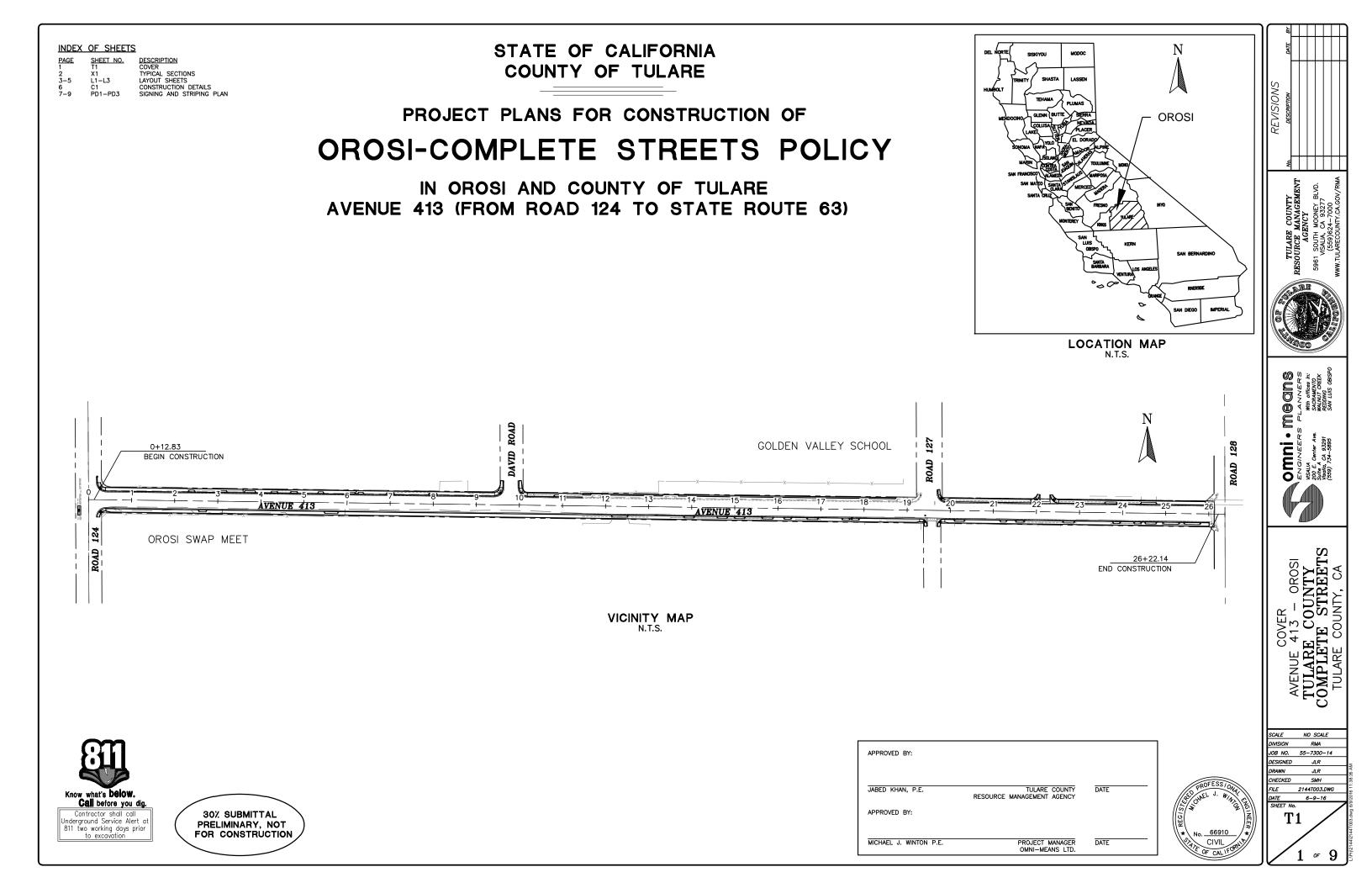




KEYED NOTES (THIS SHEET ONLY)
1 DITCH/INFILTRATION TRENCH.
2 CLASS II BIKE PATH (2" HMA/4" CLASS 2 AB).
3 12 IN. CULVERT.
4 REMOVE BOLLARD.
5 Exist UTILITY POLE. PROTECT IN PLACE.
6 18 IN. CULVERT.
7 DRAIN INLET.
8 REMOVABLE BOLLARD POST WITH TYPE 3 MARKER.
9 ENVELOPE STRIPPING NORMAL SOLID YELLOW LINE (MUTCD FIG.9C-8).
10 DRIVEWAY.

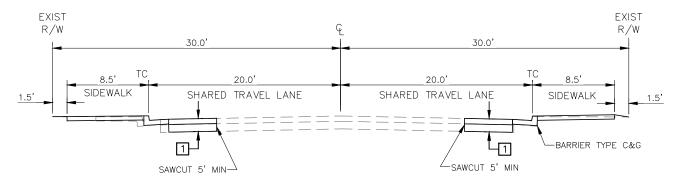
LEGEND ROADWAY CONST.

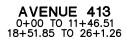


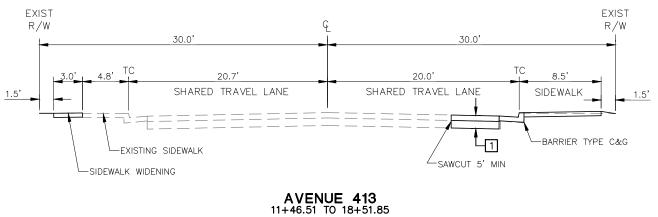


TYPICAL STRUCTURAL SECTIONS:

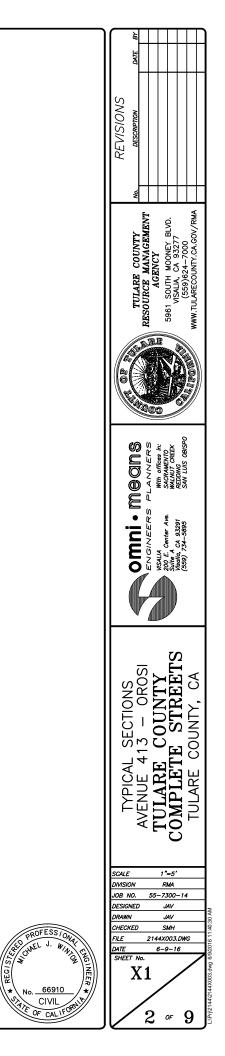
20-YEAR DESIGN TI=5.5, R=25 (ASSUMED) - 0.25' HMA (TYPE B) 0.70' AB (CLASS 2) (95% RC) 1.00' COMPACTED NATIVE (95% RC) 1-



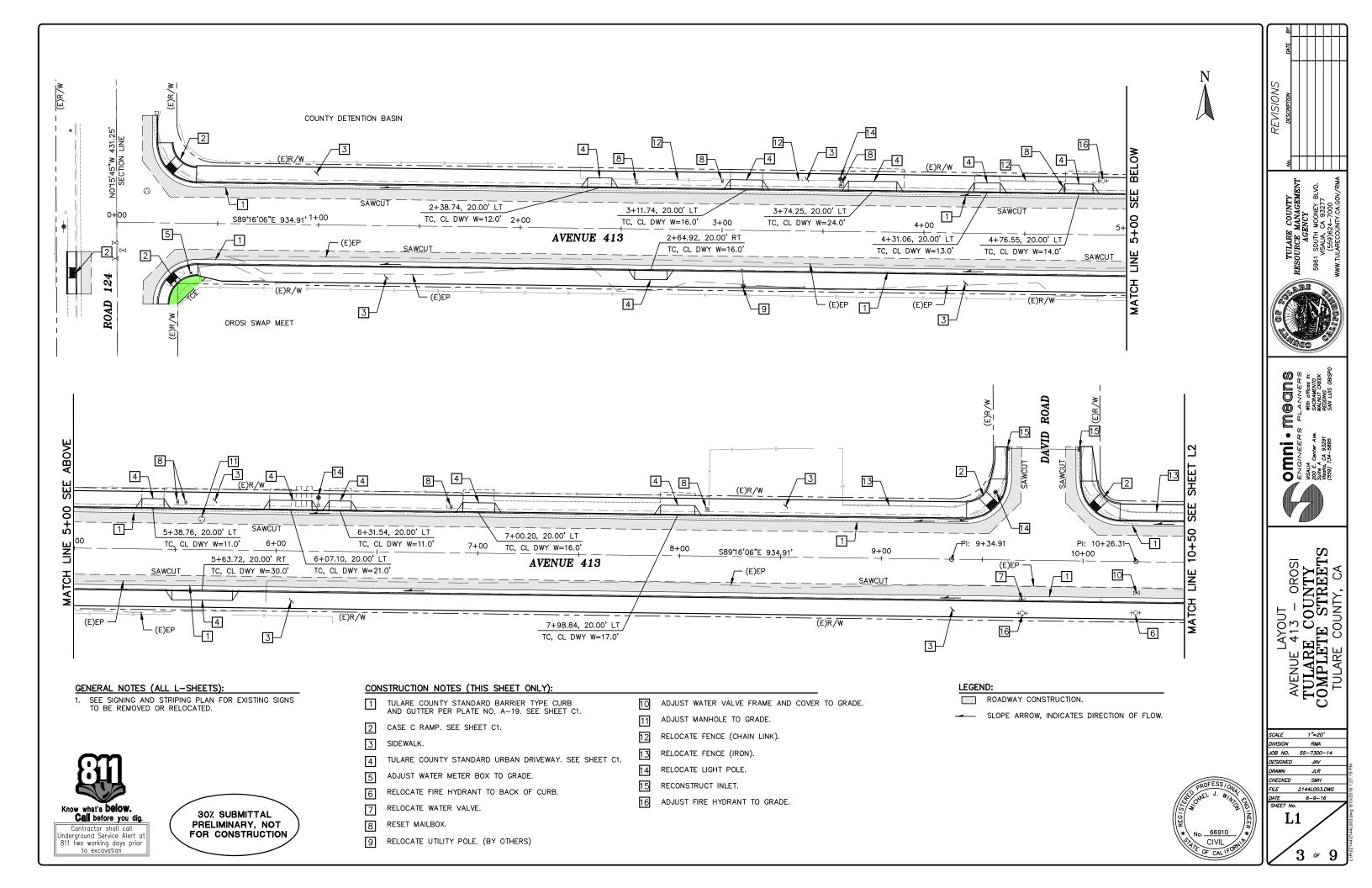


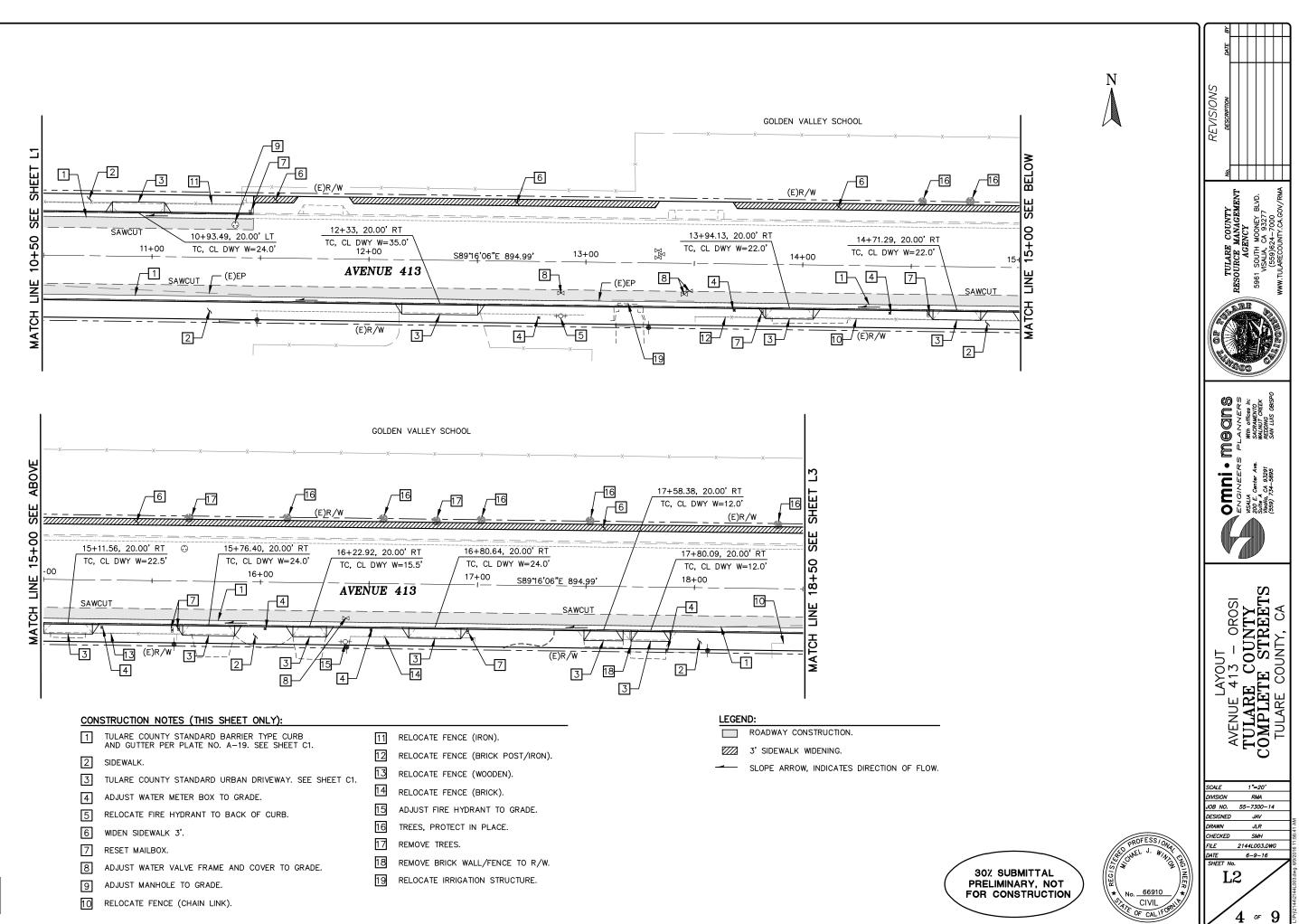


30% SUBMITTAL PRELIMINARY, NOT FOR CONSTRUCTION



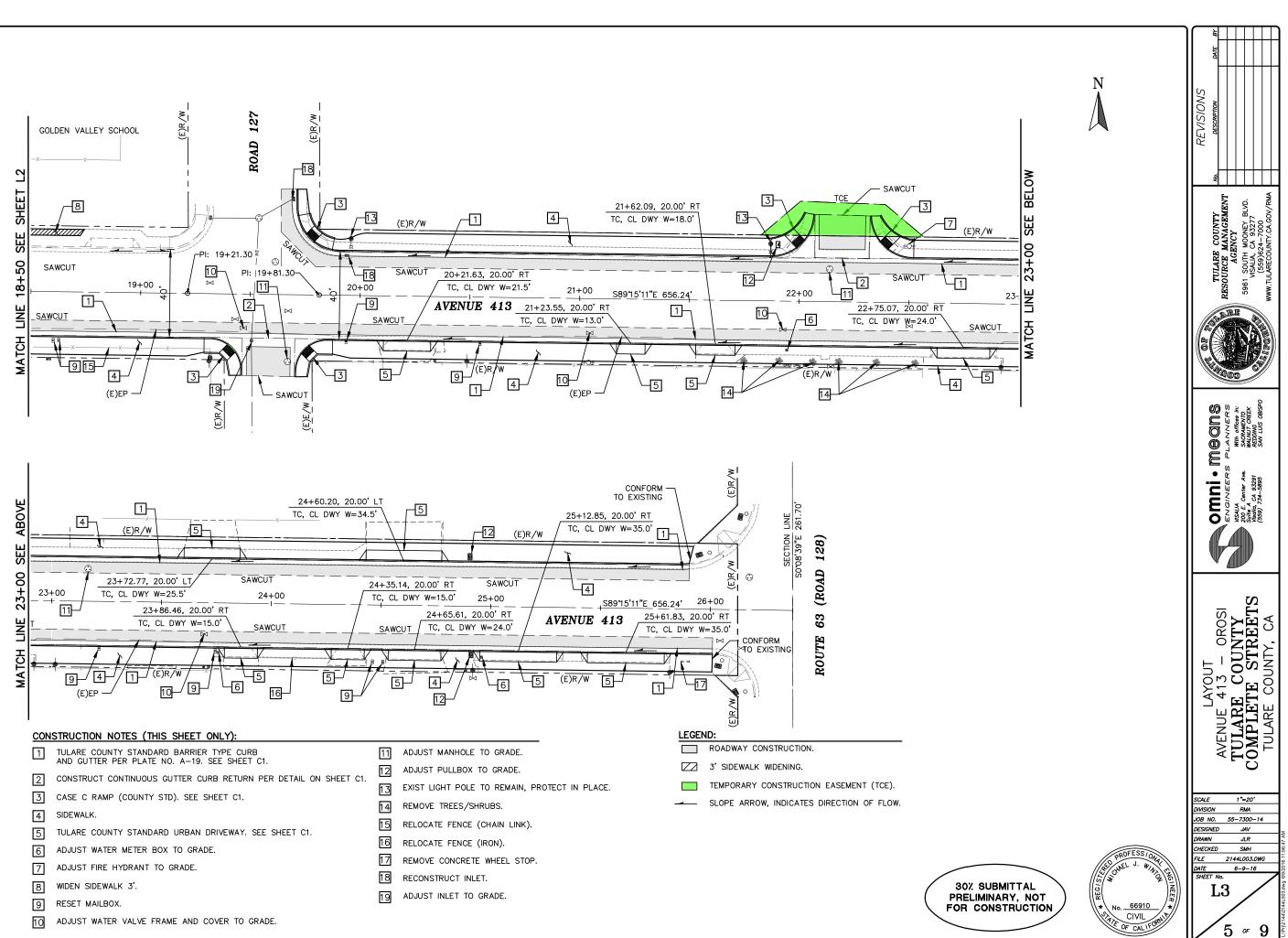
POFESS

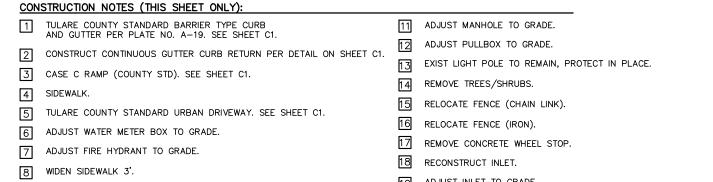




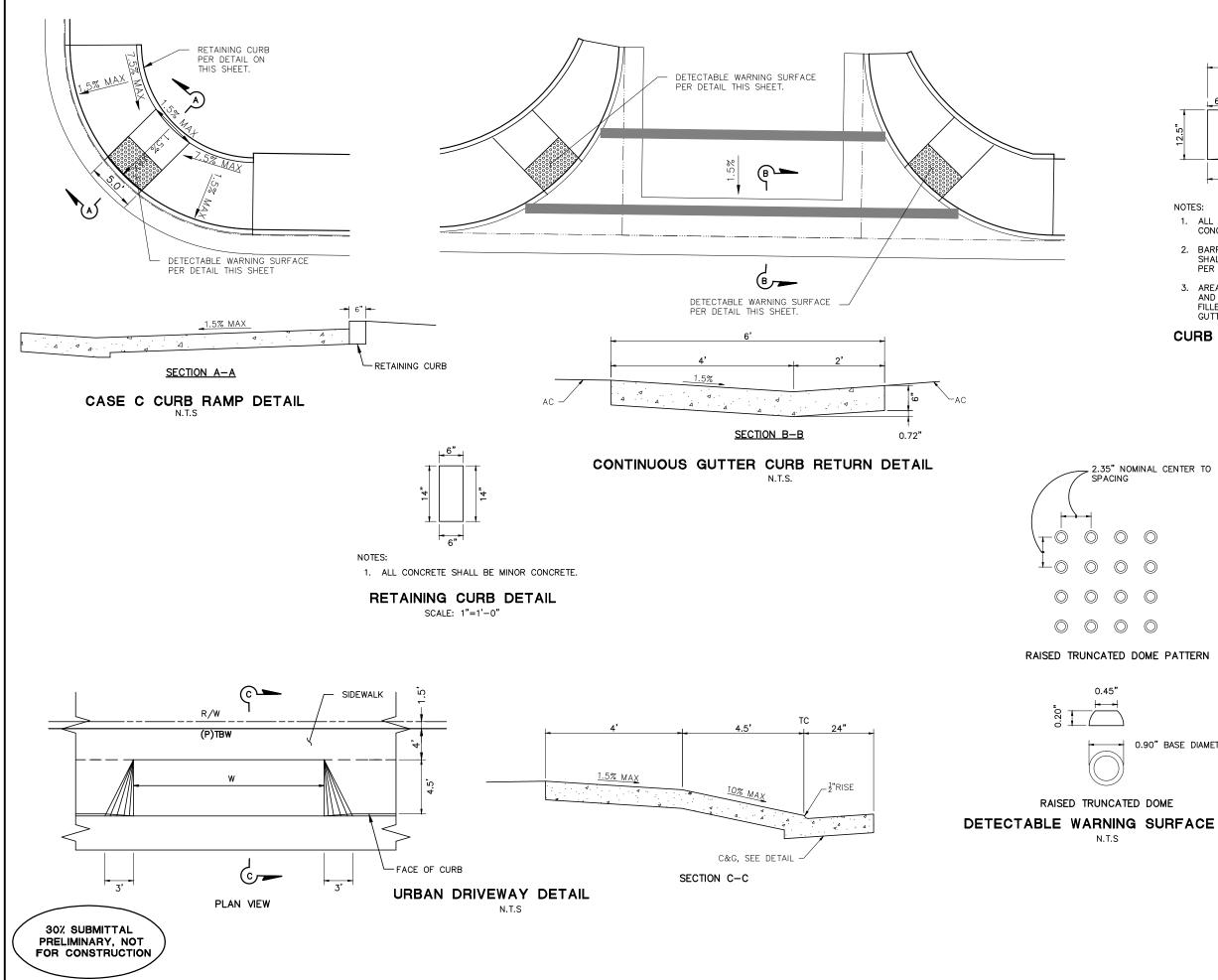
Know what's **below.** Call before you dig.

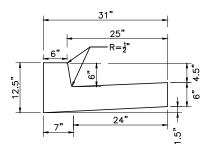
Contractor shall call Underground Service Alert at 811 two working days prior to excavation









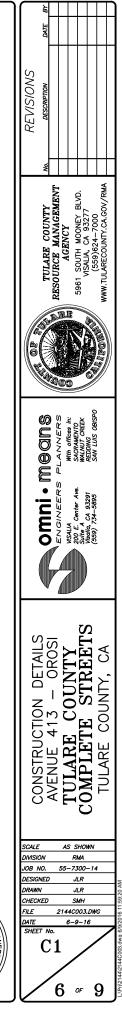


NOTES:

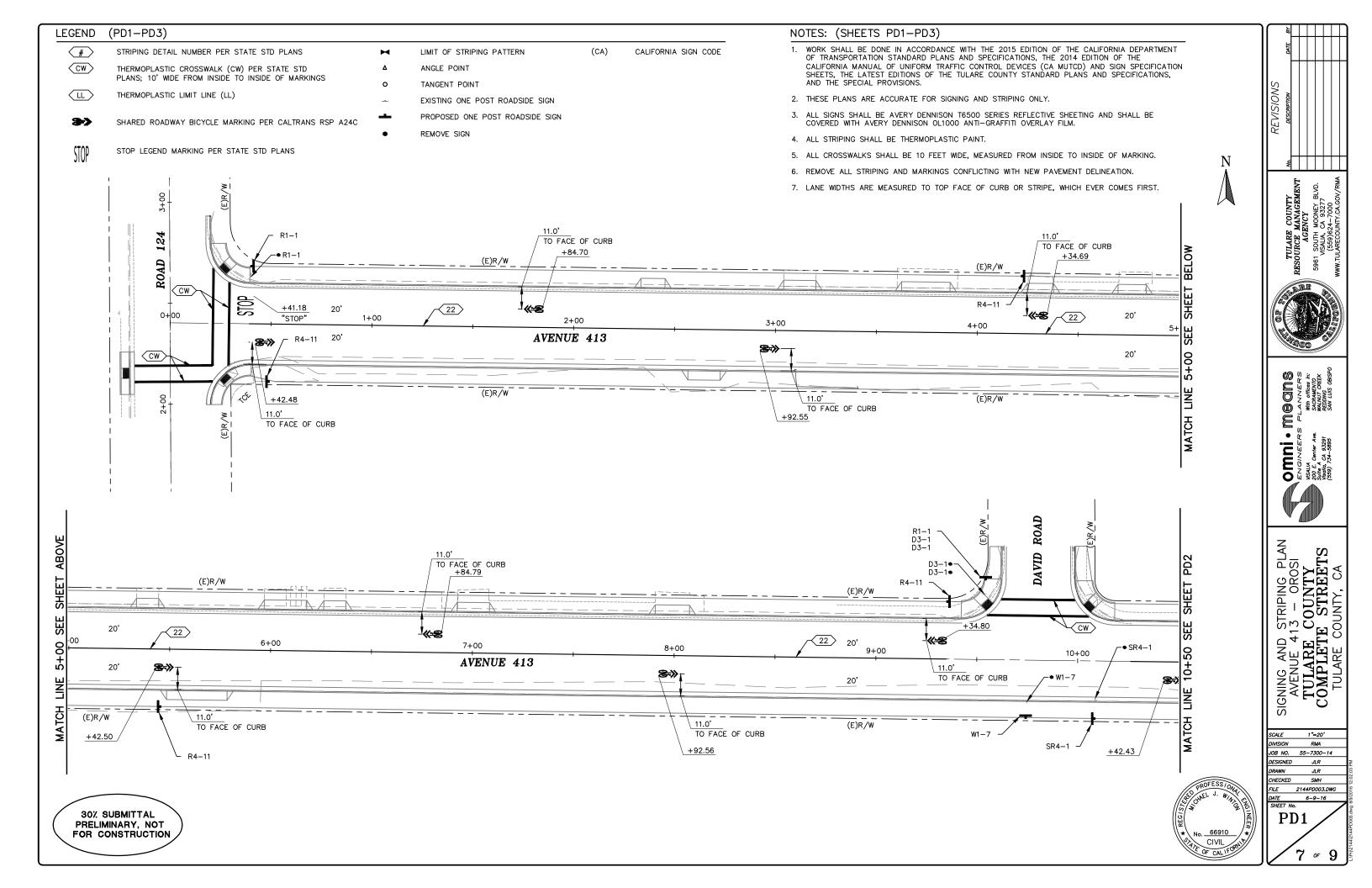
- 1. ALL CONCRETE SHALL BE MINOR CONCRETE.
- BARRIER TYPE CURB AND GUTTER SHALL HAVE A MINIMUM OF 0.15 FEET PER 100 FEET.
- 3. AREA BETWEEN BACK OF CURB AND AND PROPERTY LINE SHALL BE BACK FILLED AND SLOPED TO DRAIN TO GUTTER.

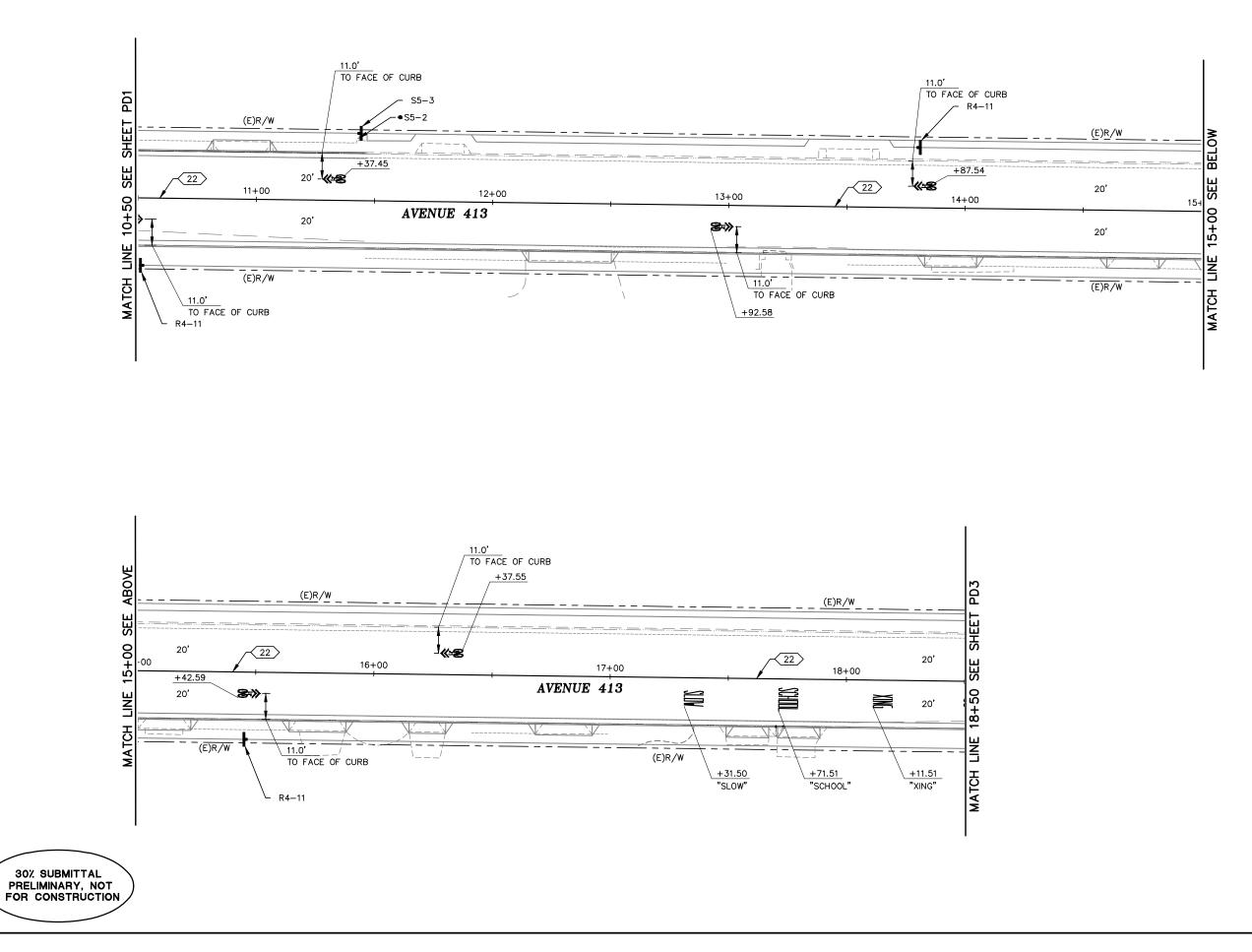
CURB & GUTTER - COUNTY SCALE: 1"=1'-0"

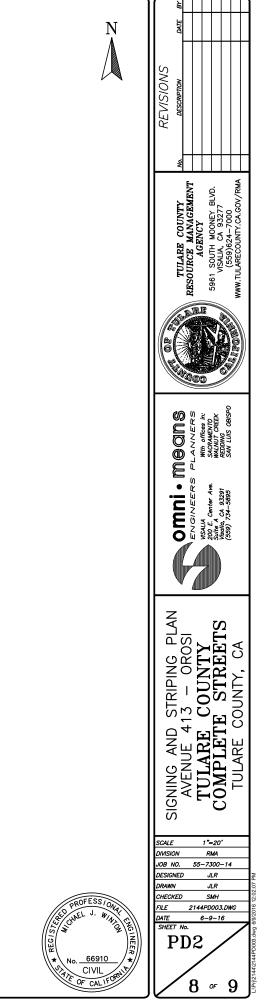
	NOTEO				
	NOTES:				
	1. SHALL BE INSTALLED AT THE BOTTOM OF ALL CURB RAMPS.				
\bigcirc	2. SHALL BE THE FULL WIDTH OF RAMP AND SHALL BE A MIN. OF 36"				
\bigcirc	IN DEPTH				
0	3. SHALL BE PREMIXED FEDERAL				
\bigcirc	YELLOW COLORED POLYMER CONCRETE MATERIAL.				
\bigcirc	4. ALL DETECTABLE WARNING PANELS INSTALLED WITH NEW IMPROVEMENTS				
ME PATTERN	SHALL BE WET SET TYPE/CAST IN PLACE TYPE PANELS.				
	5. A $4'-0$ " WDE DETECTABLE WARNING SURFACE MAY BE USED ON A $4'-2$ " WDE CURB RAMP.				
90" BASE DIAMETER	6. DETECTABLE WARNING SURFACES SHALL CONFORM TO THE REQUIREMENTS IN THE STANDARDS SPECIFICATIONS.				

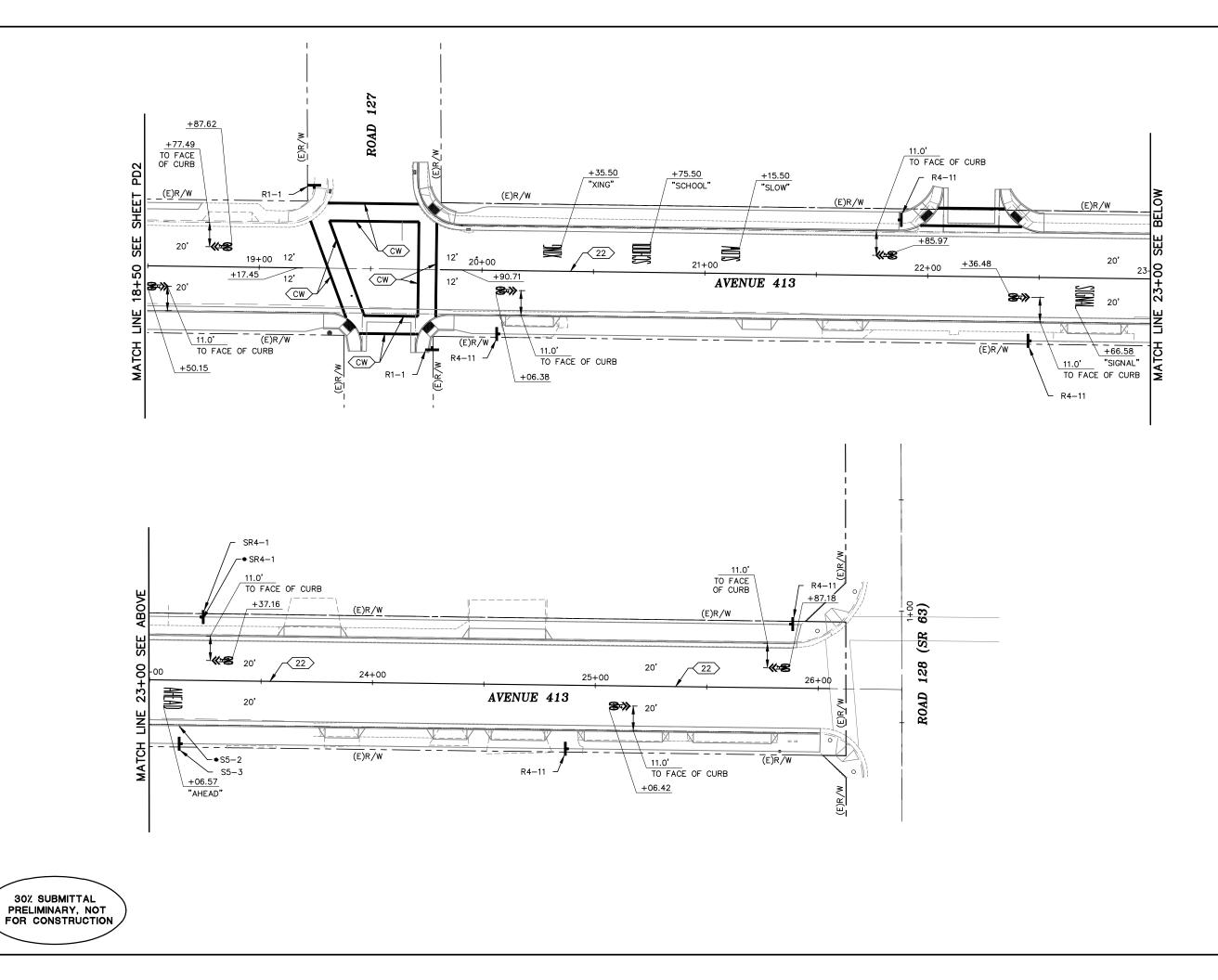


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Appendix I –

Complete Streets Outreach

Cutler-Orosi Community Meeting hosted by the Tulare County Resource Management Agency Complete Streets Meeting/ Community Plan Kick off Meeting Tuesday, March 3, 2015 Golden Valley Elementary School- Cafeteria 41456 Rd. 127 Orosi, CA 93647 5:30p.m.

County staff Kyria Fierros, Dave Bryant and Aaron Bock from County Economic Development and Planning Branch from the Tulare County Resource Management Agency (RMA) attended the community meeting in Orosi, CA on March 3, 2015. This was the second meeting RMA held in Orosi.

On February 12, 2015, RMA gave an informational update about the Community Plan and Complete Streets program at the Cutler-Orosi Joint Unified School Board meeting.

At the meeting the Board suggested RMA hold a separate meeting with the community allowing all local residents the opportunity to come to a meeting. The Board also requested information on the past improvements completed from the previous Community Plan of 1988 and the amount of projects implemented since the passing of Measure R in 2006.

On March 3, 2015 RMA with the help from Roel Alvarado, Principal at Cutler Elementary, translated the meeting in English to Spanish.

RMA staff gave a PowerPoint explaining the Community Plan process and the Complete Streets program letting the public know we were seeking input on priority streets. Dave Bryant updated the community on infrastructure improvements from the previous community plan of 1988 and Kyria Fierros presented on the Measure R funds.

According to our Road Department there the total amount of funds used from Measure R funds since 2006:

Cutler \$242K

Orosi \$900K

Total: **\$1.1 million**

The five Streets County identified for the complete streets by the community were: Orosi

1. Avenue 416 – SR 63 to Rd 140 (East Orosi) **43 Votes**

- 2. Avenue 413 Rd 124 to SR 63 11 Votes
- 3. Avenue 419 **3 Votes**
- 4. Avenue 416 SR-63 to Dinuba 0 Votes

Additional Considerations

5. Road 130 (Strong interest from the school district)

6. Road 124

<u>Cutler</u>

- 1. George Rd/2nd Drive Ave 407 to SR 63 36 Votes
- 2. Avenue 408 Rd 124 to SR 63 14 Votes
- 3. Railroad Drive SR 63 to Rd 124 9 Votes
- 4. Avenue 404 SR 63 to Robert Rd 6 Votes
- 5. First Drive SR 63 to Rd 124 **5 Votes**

General Road Concerns

- -Orosi Drive at 2nd Drive-Flooding
- -Road 124 at Aceves Ave-Stop Sign
- -Road 124 (Ave 408 to Ave 416) Traffic Speeding Concerns

-El Monte School (Road 127) Request for additional Crosswalks(Students cross midblock at multiple locations primarily north of the school).

-Road 127 at Ave 416 (Sight Distance Problem with parked vehicles, Northbound left turn from Road 127 to westbound Ave 416).

- -SR 63 (Road 128) Request for Traffic Signal at Orosi High School(Walnut Ave?)
- -Avenue 416 there is lots of traffic speeding. There has been accident there
- -Avenue 63 there are no lights sidewalks

-Avenue 63 and Ella need for sidewalks.

Development:

Citizens expressed their concerns for a pharmacy. They stated the closest one is in Dinuba and even then there is very limited bus transportation. A pharmacy would be a great asset because local residents can walk to their local pharmacy than have to travel to another city.

Water Issue:

Superintendent Valdez voiced her concerned for the need of clean water for the children and families. Staff discussed the County- Wide bottle water program for the residents and let them know we qualify those who are on a dried well or show contamination in their water. Follow up information was made available.

Outreach:

The County provided 4,000 fliers to the school district where the fliers were distributed amongst the schools. A recorded voice message was made to the households of all the parents of the children Monday evening.

Conclusion:

We concluded the meeting by telling the superintendent we would host another meeting at their community parent meeting in the months to come. We are currently moving forward with updating Cutler-Orosi's community plan. Last time it was updated was 1988. We will hold 2-3 more meetings to receive community input.

County staff in attendance: Aaron Bock, Kyria Fierros, Dave Bryant

The meeting was held in English and Spanish.

The meeting started at 5:30p.m. And ended at 7:15 p.m.









The Tulare County Resource Management Agency will be hosting a **Cutler-Orosi Community Plan Update and Complete Streets Workshop** on *Tuesday, March 3rd, 2015, at 5:30p.m.* at the **Golden Valley School-Cafeteria** 41465 Road 127 Orosi, CA 93647

We will be discussing updating the existing Cutler-Orosi Community Plan which will include proposed Land Use, Zoning, and Circulation changes in the area. Our discussion will also include a new Complete Streets Program. We will be discussing proposed new changes in the area and are asking for community input on these important Community projects. This is the start of a series of meetings we will have with the community.

For more information call: Kyria at 559-624-7154



El condado de Tulare va dar una **Presentación Informativa de Planificación y Ingenieria** para la comunidad de Cutler-Orosi el dia *Marties, 3 de Marzo a las 5:30 p.m.* en la **Cafeteria de Golden Valley School** 41465 Road 127 Orosi, CA 93647

Por favor venga y únase a nosotros para un seguimiento de la presentación de Comunidades Saludables y discusión de usos de la tierra. Vamos a discutir propuestas de nuevos cambios en el área y pedir opiniones de la comunidad.Esta es parte de una serie de reuniones que el condado esta haciendo.

Si quiere mas informacion llame a: Kyria -559-624-7154