

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN DIEGO REGION**

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Clean Water Act Section 401 Water Quality Certification  
and Waste Discharge Requirements  
for Discharge of Dredged and/or Fill Materials

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**PROJECT: Citracado Parkway Extension Project  
Certification Number R9-2019-0066  
WDID: 9000002559**

|                                                                                   |
|-----------------------------------------------------------------------------------|
| Reg. Meas. ID: 389221<br>Place ID: 791852<br>Party ID: 14960<br>Person ID: 538840 |
|-----------------------------------------------------------------------------------|

**APPLICANT: The City of Escondido  
201 N. Broadway  
Escondido, CA 92025**

**ACTION:**

|                                                                                     |                                                                               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| <input type="checkbox"/> Order for Low Impact Certification                         | <input type="checkbox"/> Order for Denial of Certification                    |
| <input checked="" type="checkbox"/> Order for Technically-conditioned Certification | <input type="checkbox"/> Enrollment in Isolated Waters Order No. 2004-004-DWQ |
| <input checked="" type="checkbox"/> Enrollment in SWRCB GWDR Order No. 2003-017-DWQ |                                                                               |

**PROJECT DESCRIPTION**

An application dated February 7, 2013 was submitted by the City of Escondido (hereinafter Applicant), for Water Quality Certification pursuant to section 401 of the Clean Water Act (United States Code (USC) Title 33, section 1341) for the proposed Citracado Parkway Extension Project (Project). The California Regional Water Quality Control Board, San Diego Region (San Diego Water Board) deemed the application to be complete on October 23, 2017. The Applicant proposes to discharge dredged or fill material to waters of the United States and/or State associated with construction activity at the Project site. The Applicant has also applied for a Clean Water Act section 404 permit from the United States Army Corps of Engineers for the Project (USACE File No. SPL-2015-00121-WSZ).

The Project is located in the western limits of the City of Escondido between the intersections of Citracado Parkway and Andreasen Drive on the north side of Escondido Creek to Citracado Parkway and Harmony Grove Village Parkway on the south side of Escondido Creek. The Project center reading is located at latitude 33.106052 and longitude -117.118457. The Applicant has paid all required application fees for this Certification in the amount of \$4,899.00. On an annual basis, the Applicant must also pay all active discharge fees and post discharge monitoring fees, as appropriate<sup>1</sup>. On October 3, 2017, the San Diego Water Board provided

<sup>1</sup> Additional information regarding fees can be found electronically at the following location:  
<http://www.waterboards.ca.gov/resources/fees/>

public notice of the Project application pursuant to California Code of Regulations, title 23, section 3858 by posting information describing the Project on the San Diego Water Board's web site and providing a period of twenty-one days for public review and comment. No comments were received.

The Applicant proposes to improve and extend Citracado Parkway from West Valley Parkway to Andreasen Drive. The new roadway section will require landform alterations, cut slopes, and fill slopes. Minor street realignments and/or grade adjustments at the intersection of Kuana Loa Drive with Harmony Grove Road are included in the Project and the Citracado Parkway roadway extension will require a bridge structure crossing over Escondido Creek. The Project has three primary construction components, which are described below.

#### Citracado Parkway: West Valley Parkway to Avenida Del Diablo

The Project includes adding an additional travel lane in each direction through the median width reduction (35 feet to 14 feet) resulting in a four-lane roadway. The Project also includes a full four-way signalization of the Mountain Shadow and Casa De Amigos mobile home park entrance intersection, a southbound left-turn-only pocket and a right-in/right-out-only operational restriction at Yankee Court, a northbound Citracado Parkway left-turn-only pocket and a right-in/right-out-only operational restriction at Johnston Road, a northbound Citracado Parkway left-turn-only pocket and a right-in/right-out-only operational restriction at Avenida Del Diablo. Road improvements include a dedicated bicycle lane along the roadway shoulder. Sound walls will also be installed along the existing stretch of Citracado Parkway.

#### Citracado Parkway: Avenida Del Diablo to Andreasen Drive

The proposed extension of Citracado Parkway will be 2,600 feet in length between Avenida Del Diablo and Andreasen Drive. The typical cross section of the roadway extension will be 102 feet across between Avenida Del Diablo and Harmony Grove Village Parkway, including sidewalks, a planted parkway behind the sidewalks, two lanes each in the northbound and southbound directions, and a landscaped median (14 feet wide) between the travel lanes. In addition, a striped bicycle lane will accommodate bicyclists on the roadway shoulder. Between Harmony Grove Village Parkway and the new bridge, the roadway width will transition from 102 feet across to 84 feet across, including sidewalks, a planted parkway behind the sidewalks, two lanes each in the northbound and southbound directions, and a bicycle lane in the roadway shoulder. The median will transition from 14 feet to 2 feet between travel lanes, with only a portion of the median being landscaped. Between the area north of the bridge and Harmony Grove Road, the roadway width will range between 74 and 95 feet across, including sidewalks, a planted parkway behind the sidewalks, two lanes each in the northbound and southbound directions, a median (a maximum of 14 feet wide) between the travel lanes and a striped bicycle lane on the roadway shoulder. The roadway extension would be built upon an elevated roadbed with embankments varying in height up to 30 feet. With the embankments, the total cross section width would measure up to 150 feet.

#### Escondido Creek Bridge

The bridge crossing at Escondido Creek will be a two-span, cast-in-place, pre-stressed, concrete box girder structure with a single pier support. The bridge will be 260 feet in length with two equal spans of 128 feet, 8 inches in length. The bridge will be 72 feet wide and 23

feet in height. The bridge will provide for two lanes for vehicular traffic in each direction and two pedestrian walkways, one on each side of the bridge. Rock-slope protection is proposed to be buried 2 feet below ground surface along the base of both the north and south bridge abutments. The Project construction is expected to take 18 months with the bridge portion expected to take six to nine months.

The Project will convert approximately 5.21 acres of pervious ground cover to impervious surfaces. Runoff leaving the developed Project area would be significantly greater in volume, velocity, peak flow rate, and duration than pre-development runoff from the same area without mitigation. Post-construction best management practices (BMPs) to manage and control the effects of these runoff increases will consist of four detention/biofiltration basins. The biofiltration basins will remove storm water pollutants and provide hydromodification mitigation. These BMPs will be designed, constructed, and maintained to meet City of Escondido BMP Design Manual design capture volume and hydromodification treatment requirements.

The Project application includes a description of the design objective, operation, and degree of treatment expected to be attained from equipment, facilities, or activities (including construction and post-construction BMPs) to treat waste and reduce runoff or other effluents which may be discharged. Compliance with the Certification conditions will help ensure that construction and post-construction discharges from the Project will not cause on-site or off-site downstream erosion, damage to downstream properties, or otherwise damage stream habitats in violation of water quality standards in the *Water Quality Control Plan for the San Diego Basin (9)* (Basin Plan).

Project construction will permanently impact 0.06 acres from the bridge construction and 0.35 acres from permanent shading impacts (72 linear feet) to wetland waters of the United States and/or State. Project construction will temporarily impact 0.42 acre (108 linear feet) of ephemeral wetland waters of the United States and/or State. The Applicant reports that the Project purpose cannot be practically accomplished in a manner which would avoid or result in less adverse impacts to aquatic resources considering all potential practicable alternatives, such as the potential for alternate available locations, designs, reductions in size, configuration or density.

The Applicant has minimized Project impacts by designing a bridge with the smallest impacts to Escondido Creek. The bridge crossing requires only one support column within Escondido Creek and rock slope protection of the bridge abutments will be buried under two feet of sediment.

The Applicant reports that compensatory mitigation for the permanent loss of 0.41 acres (0.35 acres from shading impacts) and temporary impact 0.42 acres of jurisdictional waters will be achieved through the use of 0.93 mitigation credits. The credits come from a previous obligation by the Applicant to restore approximately 11.89 acres of wetland habitat within Escondido Creek while the required mitigation was 10.97 acres of habitat under 401 Water Quality Certification No. 99C-169 for the *Hale Avenue Resource Reclamation Facility (HARRF) Flood Protection Plan* issued on February 7, 2000. The excess mitigation acreage was estimated to be 0.93 acres. The U.S. Army Corps of Engineers (USACE) and California Department of Fish and Wildlife (CDFW) signed off on the mitigation site in 2006. Mitigation for discharges of fill material to waters of the United States and/or State will be completed by

the Applicant through debit of 0.93 acre mitigation credits (0.36 acre of freshwater marsh and 0.57 acre of wetland credits) that were authorized under Water Quality Certification No 99C-169. The mitigation credit will result in an overall compensation ratio of 2.4:1 (area mitigated:area impacted). All waters of the United States and/or State receiving temporary discharges of fill material will be restored upon removal of the fill. The temporary impacts to Escondido Creek will be restored under the *Citracado Parkway Wetland Restoration Conceptual Plan* (Restoration Plan), dated December 31, 2014. The Restoration Plan includes a minimum of five years of maintenance and monitoring. In addition, the HARRF mitigation site, minus the right-of-way required for this Project, will be maintained under a Long-Term Management Plan.

Detailed written specifications and work descriptions for the compensatory mitigation project including, but not limited to, the geographic boundaries of the project, timing, sequence, monitoring, maintenance, ecological success performance standards and provisions for long-term management and protection of the mitigation areas are described in the *Conceptual Wetland Mitigation and Revegetation Plan for Hale Avenue Recovery Facility Resource* (Mitigation Plan), dated September 2000. San Diego Water Board acceptance of the Mitigation Plan applies only to the Project described in this Certification and must not be construed as approval for other current or future projects that are planning to use additional acreage at the site for mitigation. The Mitigation Plan is incorporated in this Certification by reference as if set forth herein. The Mitigation Plan provides for implementation of compensatory mitigation which offsets adverse water quality impacts attributed to the Project in a manner that protects and restores the abundance, types and conditions of aquatic resources and supports their beneficial uses. Implementation of the Mitigation Plan will reduce significant environmental impacts to resources within the San Diego Water Board's purview to a less than significant level. Based on all of these considerations, the Mitigation Plan will adequately compensate for the loss of beneficial uses and habitat within waters of the United States and/or State attributable to the Project.

Additional Project details are provided in Attachments 1 through 5 of this Certification.

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### Attachments:

1. Definitions
2. Project Location Maps
3. Project Site Plans
4. Mitigation Figures
5. CEQA Mitigation Monitoring and Reporting Program

The San Diego Water Board has independently reviewed the record of the Project to analyze the extent and nature of proposed Project impacts to the water quality and beneficial uses of waters of the United States and/or State and associated compensatory mitigation required to offset impacts attributed to the Project. In accordance with this Certification, the Applicants may proceed with the Project under the following terms and conditions:

## I. STANDARD CONDITIONS

Pursuant to section 3860 of title 23 of the California Code of Regulations, the following three standard conditions apply to all water quality certification actions:

- A. This Certification action is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to section 13330 of the Water Code and chapter 28, article 6 (commencing with title 23, section 3867), of the California Code of Regulations.
- B. This Certification action is not intended and shall not be construed to apply to any discharge from any activity involving a hydroelectric facility and requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license unless the pertinent Certification application was filed pursuant to California Code of Regulations title 23, section 3855 subdivision (b), and that application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
- C. This Certification action is conditioned upon total payment of any fee required under title 23, chapter 28 (commencing with section 3830) of California Code of Regulations and owed by the applicant.

## II. GENERAL CONDITIONS

- A. **Term of Certification.** Water Quality Certification No. R9-2019-0066 (Certification) shall expire upon a) the expiration or retraction of the Clean Water Act section 404 (33 USC Title 33, section 1344) permit issued by the U.S. Army Corps of Engineers for this Project, or b) five (5) years from the date of issuance of this Certification, whichever occurs first.
- B. **Duty to Comply.** The Applicant must comply with all conditions and requirements of this Certification. Any Certification noncompliance constitutes a violation of the Water Code and is grounds for enforcement action or Certification termination, revocation and reissuance, or modification.
- C. **General Waste Discharge Requirements.** The requirements of this Certification are enforceable through Water Quality Order No. 2003-0017-DWQ, *Statewide General Waste Discharge Requirements for Discharges of Dredged or Fill Material that have Received State Water Quality Certification* (Water Quality Order No. 2003-0017-DWQ). This provision shall apply irrespective of whether a) the federal permit for which the Certification was obtained is subsequently retracted or is expired, or b) the Certification is expired. Water Quality Order No. 2003-0017-DWQ is accessible at:

[http://www.waterboards.ca.gov/water\\_issues/programs/cwa401/docs/generalorders/gowdr401regulated\\_projects.pdf](http://www.waterboards.ca.gov/water_issues/programs/cwa401/docs/generalorders/gowdr401regulated_projects.pdf).

- D. **Project Conformance with Application.** All water quality protection measures and BMPs described in the application and supplemental information for water quality certification are incorporated by reference into this Certification as if fully stated herein. Notwithstanding any more specific conditions in this Certification, the Applicant shall construct, implement and comply with all water quality protection measures and BMPs described in the application and supplemental information. The conditions within this Certification shall supersede conflicting provisions within the application and supplemental information submitted as part of this Certification action.
- E. **Project Conformance with Water Quality Control Plans or Policies.** Notwithstanding any more specific conditions in this Certification, the Project shall be constructed in a manner consistent with the Basin Plan and any other applicable water quality control plans or policies adopted or approved pursuant to the Porter Cologne Water Quality Act (Division 7, commencing with Water Code Section 13000) or section 303 of the Clean Water Act (33 USC section 1313). The Basin Plan is accessible at:

[http://www.waterboards.ca.gov/sandiego/water\\_issues/programs/basin\\_plan/index.shtml](http://www.waterboards.ca.gov/sandiego/water_issues/programs/basin_plan/index.shtml)

- F. **Project Modification.** The Applicant must submit any changes to the Project, including Project operation, which would have a significant or material effect on the findings, conclusions, or conditions of this Certification, to the San Diego Water Board for prior review and written approval. If the San Diego Water Board is not notified of a significant change to the Project, it will be considered a violation of this Certification.
- G. **Certification Distribution Posting.** During Project construction, the Applicant must maintain a copy of this Certification at the Project site. This Certification must be available at all times to site personnel and agencies. A copy of this Certification shall also be provided to any contractor or subcontractor performing construction work, and the copy shall remain in their possession at the Project site.
- H. **Inspection and Entry.** The Applicant must allow the San Diego Water Board or the State Water Resources Control Board, and/or their authorized representative(s) (including an authorized contractor acting as their representative), upon the presentation of credentials and other documents as may be required under law, to:
1. Enter upon the Project or Compensatory Mitigation site(s) premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Certification;
  2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Certification;

3. Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Certification; and
  4. Sample or monitor, at reasonable times, for the purposes of assuring Certification compliance, or as otherwise authorized by the Clean Water Act or Water Code, any substances or parameters at any location.
- I. **Enforcement Notification.** In the event of any violation or threatened violation of the conditions of this Certification, the violation or threatened violation shall be subject to any remedies, penalties, process or sanctions as provided for under State law. For purposes of section 401(d) of the Clean Water Act, the applicability of any State law authorizing remedies, penalties, process or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this Certification.
- J. **Certification Actions.** This Certification may be modified, revoked and reissued, or terminated for cause including but not limited to the following:
1. Violation of any term or condition of this Certification;
  2. Monitoring results indicate that continued Project activities could violate water quality objectives or impair the beneficial uses of Escondido Creek or its tributaries;
  3. Obtaining this Certification by misrepresentation or failure to disclose fully all relevant facts;
  4. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge; and
  5. Incorporation of any new or revised water quality standards and implementation plans adopted or approved pursuant to the Porter-Cologne Water Quality Control Act or section 303 of the Clean Water Act.

The filing of a request by the Applicant for modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any Certification condition.

- K. **Duty to Provide Information.** The Applicant shall furnish to the San Diego Water Board, within a reasonable time, any information which the San Diego Water Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Certification or to determine compliance with this Certification.
- L. **Property Rights.** This Certification does not convey any property rights of any sort, or any exclusive privilege.
- M. **Petitions.** Any person aggrieved by this action of the San Diego Water Board may petition the State Water Resources Control Board (State Water Board) to review the



action in accordance with the California Code of Regulations, title 23, sections 3867 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this Certification. Copies of the law and regulations applicable to filing petitions may be found on the Internet at:

[http://www.waterboards.ca.gov/public\\_notices/petitions/water\\_quality](http://www.waterboards.ca.gov/public_notices/petitions/water_quality) or will be provided upon request.

### III. CONSTRUCTION BEST MANAGEMENT PRACTICES

- A. **Approvals to Commence Construction.** The Applicant shall not commence Project construction until all necessary federal, State, and local approvals are obtained.
- B. **Personnel Education.** Prior to the start of the Project, and annually thereafter, the Applicant must educate all personnel on the requirements in this Certification, pollution prevention measures, spill response measures, and BMP implementation and maintenance measures.
- C. **Spill Containment Materials.** The Applicant must, at all times, maintain appropriate types and sufficient quantities of materials on-site to contain any spill or inadvertent release of materials that may cause a condition of pollution or nuisance if the materials reach waters of the United States and/or State.
- D. **General Construction Storm Water Permit.** Prior to start of Project construction, the Applicant must, as applicable, obtain coverage under, and comply with, the requirements of State Water Resources Control Board Water Quality Order No. 2009-0009-DWQ, the *National Pollution Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities*, (General Construction Storm Water Permit) and any reissuance. If Project construction activities do not require coverage under the General Construction Storm Water Permit, the Applicant must develop and implement a runoff management plan (or equivalent construction BMP plan) to prevent the discharge of sediment and other pollutants during construction activities.
- E. **Waste Management.** The Applicant must properly manage, store, treat, and dispose of wastes in accordance with applicable federal, state, and local laws and regulations. Waste management shall be implemented to avoid or minimize exposure of wastes to precipitation or storm water runoff. The storage, handling, treatment, or disposal of waste shall not create conditions of pollution, contamination or nuisance as defined in Water Code section 13050. Upon Project completion, all Project generated debris, building materials, excess material, waste, and trash shall be removed from the Project site(s) for disposal at an authorized landfill or other disposal site in compliance with federal, state and local laws and regulations.
- F. **Waste Management.** Except for a discharge permitted under this Certification, the dumping, deposition, or discharge of trash, rubbish, unset cement or asphalt, concrete, grout, damaged concrete or asphalt, concrete or asphalt spoils, wash water, organic or earthen material, steel, sawdust or other construction debris waste from Project activities directly into waters of the United States and or State, or adjacent to such

waters in any manner which may permit its being transported into the waters, is prohibited.

- G. **Downstream Erosion.** Discharges of concentrated flow during construction or after Project completion must not cause downstream erosion or damage to properties or stream habitat.
- H. **Construction Equipment.** All equipment must be washed prior to transport to the Project site and must be free of sediment, debris, and foreign matter. All equipment used in direct contact with surface water shall be steam cleaned prior to use. All equipment using gas, oil, hydraulic fluid, or other petroleum products shall be inspected for leaks prior to use and shall be monitored for leakage. Stationary equipment (e.g., motors, pumps, generator, etc.) shall be positioned over drip pans or other types of containment.
- I. **Process Water.** Water containing mud, silt, or other pollutants from equipment washing or other activities, must not be discharged to waters of the United States and/or State or placed in locations that may be subjected to storm water runoff flows. Pollutants discharged to areas within a stream diversion must be removed at the end of each work day or sooner if rain is predicted.
- J. **Surface Water Diversion.** All surface waters, including ponded waters, must be diverted away from areas of active grading, construction, excavation, vegetation removal, and/or any other activity which may result in a discharge to the receiving water. Diversion activities must not result in the degradation of beneficial uses or exceedance of the receiving water quality objectives. Any temporary dam or other artificial obstruction constructed must only be built from materials such as clean gravel which will cause little or no siltation. Normal flows must be restored to the affected stream immediately upon completion of work at that location.
- K. **Re-vegetation and Stabilization.** All areas that have 14 or more days of inactivity must be stabilized within 14 days of the last activity. The Applicant shall implement and maintain BMPs to prevent erosion of the rough graded areas. After completion of grading, all areas must be re-vegetated with native species appropriate for the area. The re-vegetation palette must not contain any plants listed on the California Invasive Plant Council Invasive Plant Inventory, which can be accessed at <http://www.cal-ipc.org/ip/inventory/>.
- L. **Hazardous Materials.** Except as authorized by this Certification, substances hazardous to aquatic life including, but not limited to, petroleum products, unused cement/concrete, asphalt, and coating materials, must be prevented from contaminating the soil and/or entering waters of the United States and/or State. BMPs must be implemented to prevent such discharges during each Project activity involving hazardous materials.
- M. **Vegetation Removal.** Removal of vegetation must occur by hand, mechanically, or through application of United States Environmental Protection Agency (USEPA) approved herbicides deployed using applicable BMPs to minimize adverse effects to

beneficial uses of waters of the United States and/or State. Discharges related to the application of aquatic pesticides within waters of the United States must be done in compliance with State Water Resources Control Board Water Quality Order No. 2013-0002-DWQ, the *Statewide General National Pollution Discharge Elimination System Permit for Residual Aquatic Pesticide Discharges to Waters of the United States from Algae and Aquatic Weed Control Applications*, and any subsequent reissuance as applicable.

- N. **Limits of Disturbance.** The Applicant shall clearly define the limits of Project disturbance to waters of the United States and/or State using highly visible markers such as flag markers, construction fencing, or silt barriers prior to commencement of Project construction activities within those areas.
- O. **On-site Qualified Biologist.** The Applicant shall designate an on-site qualified biologist to monitor Project construction activities within or adjacent to waters of the United States and/or State to ensure compliance with the Certification requirements. The biologist shall be given the authority to stop all work on-site if a violation of this Certification occurs or has the potential to occur. Records and field notes of the biologist's activities shall be kept on-site and made available for review upon request by the San Diego Water Board.
- P. **Beneficial Use Protection.** The Applicant must take all necessary measures to protect the beneficial uses of waters of Escondido Creek and its tributaries. This Certification requires compliance with all applicable requirements of the Basin Plan. If at any time, an unauthorized discharge to surface waters (including rivers or streams) occurs or monitoring indicates that the Project is violating, or threatens to violate, water quality objectives, the associated Project activities shall cease immediately and the San Diego Water Board shall be notified in accordance with Notification Requirement VII.A of this Certification. Associated Project activities may not resume without approval from the San Diego Water Board.
- Q. **Groundwater Dewatering.** If groundwater dewatering is required for the Project, the Applicant shall enroll in and comply with the requirements of San Diego Water Board Order No. R9-2015-0013, NPDES No. CAG919003, *General Waste Discharge Requirements For Groundwater Extraction Discharges to Surface Waters within the San Diego Region* or its successor permit.

#### IV. POST-CONSTRUCTION BEST MANAGEMENT PRACTICES

- A. **Post-Construction Discharges.** The Applicant shall not allow post-construction discharges from the Project site to cause or contribute to on-site or off-site erosion or damage to properties or stream habitats.
- B. **Storm Drain Inlets.** All storm drain inlet structures within the Project boundaries must be stamped or stenciled (or equivalent) with appropriate language prohibiting non-storm water discharges.

- C. Post-Construction BMP Implementation.** The Project must be designed to comply with the requirements for priority development projects in section E.3 of the Regional MS4 Permit Order R9-2013-0001, *National Pollutant Discharge Elimination Systems Permit and Waste Discharge Requirements for Discharges of Urban Runoff from the MS4s Draining the Watersheds within the San Diego Region* (Regional MS4 Permit) as well as the most current Standard Storm Water Mitigation and Hydromodification Plans for the County of San Diego. Where conflict exists between the referenced documents the most stringent requirements shall apply.
- D. Post-Construction BMP Implementation.** All post-construction BMPs must be constructed, functional, and implemented prior to completion of Project construction, occupancy, and/or planned use, and maintained in perpetuity. The post construction BMPs must be approved by the City of Escondido.
- E. Post-Construction BMP Maintenance.** The post construction BMPs must be designed, constructed, and maintained in accordance with the most recent California Storm Water Quality Association (CASQA)<sup>2</sup> guidance. The Applicant shall:
1. No less than two times per year, assess the performance of the BMPs to ensure protection of the receiving waters and identify any necessary corrective measures;
  2. Perform inspections of BMPs, at the beginning of the wet season no later than October 1 and the end of the wet season no later than April 1, for standing water, slope stability, sediment accumulation, trash and debris, and presence of burrows;
  3. Regularly perform preventative maintenance of BMPs, including removal of accumulated trash and debris, as needed to ensure proper functioning of the BMPs;
  4. Identify and promptly repair damage to BMPs; and
  5. Maintain a log documenting all BMP inspections and maintenance activities. The log shall be made available to the San Diego Water Board upon request.

## **V. PROJECT IMPACTS AND COMPENSATORY MITIGATION**

- A. Project Impact Avoidance and Minimization.** The Project must avoid and minimize adverse impacts to waters of the United States and/or State to the maximum extent practicable.
- B. Project Impacts and Compensatory Mitigation.** Unavoidable Project impacts to Escondido Creek and its tributaries within the Carlsbad Watershed must not exceed the type and magnitude of impacts described in the table below. At a minimum, compensatory mitigation required to offset unavoidable temporary and permanent Project impacts to waters of the United States and/or State must be achieved as described in the table below:

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<sup>2</sup> California Storm Water Quality Association (*California Storm Water BMP Handbook, New Development and Redevelopment 2003*), available on-line at: <http://www.cabmphandbooks.org/> [Accessed on January 15, 2012]

|                             | Impacts (acres)   | Impacts (linear ft.) | Mitigation for Impacts (acres)            | Mitigation Ratio (area mitigated :area impacted) | Mitigation for Impacts (linear ft.) | Mitigation Ratio (linear feet mitigated :linear feet impacted) |
|-----------------------------|-------------------|----------------------|-------------------------------------------|--------------------------------------------------|-------------------------------------|----------------------------------------------------------------|
| <b>Permanent Impacts</b>    |                   |                      |                                           |                                                  |                                     |                                                                |
| Stream Channel              | 0.41 <sup>1</sup> | 72                   | 0.93 Re-Establishment credit <sup>2</sup> | 2.4:1                                            | NA                                  | NA                                                             |
| <b>Temporary Impacts</b>    |                   |                      |                                           |                                                  |                                     |                                                                |
| Stream Channel <sup>4</sup> | 0.42              | 108                  | NA <sup>3</sup>                           | NA <sup>3</sup>                                  | NA                                  | NA                                                             |
|                             |                   |                      |                                           |                                                  |                                     |                                                                |

1. Permanent impacts are 0.06 acres from the one supporting bridge column and 0.35 acres from bridge shading over Escondido Creek.
2. Project Re-Establishment credits taken from mitigation credits from the *Escondido Creek Hale Avenue Resource and Recovery Facility Enhancement Flood Control* project plan, 401 Water Quality Certification 99C-169. The HARRF mitigation restored a total of 11.89 acres of wetland habitat in Escondido Creek with 10.96 acres required by Certification 99C-169. The HARRF project also restored an additional 3.13 acres of adjacent live oak riparian habitat for a total of 15.02 acres of habitat. The USACE and CDFW accepted the use of the excess credits for this Project.
3. Temporary impacts will be restored under the *Citracado Parkway Wetland Restoration Conceptual Plan* but not counted as project mitigation. Restoration includes five years of maintenance and monitoring. The entire HARRF mitigation site, minus the right of way for the bridge, will be maintained under a Long-Term Management Plan.
4. All areas of temporary impacts must be restored to pre-project contours and re-vegetated with native species.

**F. Compensatory Mitigation Site Design.** The compensatory mitigation site(s) shall be designed to be self-sustaining once performance standards have been achieved. This includes minimization of active engineering features (e.g., pumps) and appropriate siting to ensure that natural hydrology and landscape context support long-term sustainability in conformance with the following conditions:

1. Most of the channels through the mitigation sites shall be characterized by equilibrium conditions, with no evidence of severe aggradation or degradation;
2. As viewed along cross-sections, the channel and buffer area(s) shall have a variety of slopes, or elevations, that are characterized by different moisture gradients. Each sub-slope shall contain physical patch types or features that contribute to irregularity in height, edges, or surface and to complex topography overall; and
3. The mitigation sites shall have a well-developed plant community characterized by a high degree of horizontal and vertical interspersions among plant zones and layers.

- G. Temporary Project Impact Areas.** The Applicant must restore all areas of temporary impacts and all other areas of temporary disturbance which could result in a discharge or a threatened discharge of pollutants to waters of the United States and/or State. Restoration must include grading of disturbed areas to pre-project contours and re-vegetation with native species. The Applicant must implement all necessary BMPs to control erosion and runoff from areas associated with the Project.
- H. Long-Term Management and Maintenance Plan.** Prior to the start of construction, the Applicant must submit a long-term management and maintenance plan for the HARRF mitigation site.
- I. Long-Term Management and Maintenance.** The compensatory mitigation site(s) located on the Project site must be managed, protected, and maintained, in perpetuity, in conformance with the long-term management plan and the final ecological success performance standards identified in the Mitigation Plan. The aquatic habitats, riparian areas, buffers and uplands that comprise the mitigation site(s) must be protected in perpetuity from land-use and maintenance activities that may threaten water quality or beneficial uses within the mitigation area(s) in a manner consistent with the following requirements:
1. Any maintenance activities on the mitigation site(s) that do not contribute to the success of the mitigation site(s) and enhancement of beneficial uses and ecological functions and services are prohibited;
  2. Maintenance activities must be limited to the removal of trash and debris, removal of exotic plant species, replacement of dead native plant species, and remedial measures deemed necessary for the success of the compensatory mitigation project;
  3. The Mitigation site(s) must be maintained, in perpetuity, free of perennial exotic plant species including, but not limited to, pampas grass, giant reed, tamarisk, sweet fennel, tree tobacco, castor bean, and pepper tree. Annual exotic plant species must not occupy more than 5 percent of the mitigation site(s); and
  4. If at any time a catastrophic natural event (e.g., fire, flood) causes damage(s) to the mitigation site(s) or other deficiencies in the compensatory mitigation project, the Applicant must take prompt and appropriate action to repair the damage(s) including replanting the affected area(s) and address any other deficiencies. The San Diego Water Board may require additional monitoring by the Applicant to assess how the compensatory mitigation site(s) or project is responding to a catastrophic natural event.
- J. Timing of Mitigation Site Construction.** The construction of proposed mitigation must be concurrent with project grading and completed no later than 9 months following the start of Project construction. Delays in implementing mitigation must be compensated for by an increased mitigation implementation of 10% of the cumulative compensatory mitigation for each month of delay.

**K. Mitigation Site(s) Preservation Mechanism.** Within 90 days from the issuance of this Certification, the Applicant must provide the San Diego Water Board with a draft preservation mechanism (e.g. deed restriction, conservation easement, etc.) that will protect all mitigation areas and their buffers in perpetuity. Within five years of the start of Project construction, the Applicant must submit proof of a completed final preservation mechanism that will protect all mitigation areas and their buffers in perpetuity. The conservation easement, deed restriction, or other legal limitation on the mitigation properties must be adequate to demonstrate that the sites will be maintained without future development or encroachment on the sites which could otherwise reduce the functions and values of the sites for the variety of beneficial uses of waters of the United States and/ or State that it supports. The legal limitation must prohibit, without exception, all residential, commercial, industrial, institutional, and transportation development, and any other infrastructure development that would not maintain or enhance the wetland and streambed functions and values of the sites. The preservation mechanism must clearly prohibit activities that would result in soil disturbance or vegetation removal, other than the removal of non-native vegetation. Other infrastructure development to be prohibited includes, but is not limited to, additional utility lines, maintenance roads, and areas of maintained landscaping for recreation.

## **VI. MONITORING AND REPORTING REQUIREMENTS**

- A. Representative Monitoring.** Samples and measurements taken for the purpose of monitoring under this Certification shall be representative of the monitored activity.
- B. Monitoring Reports.** Monitoring results shall be reported to the San Diego Water Board at the intervals specified in section VI of this Certification.
- C. Monitoring and Reporting Revisions.** The San Diego Water Board may make revisions to the monitoring program at any time during the term of this Certification and may reduce or increase the number of parameters to be monitored, locations monitored, the frequency of monitoring, or the number and size of samples collected.
- D. Records of Monitoring Information.** Records of monitoring information shall include:
1. The date, exact place, and time of sampling or measurements;
  2. The individual(s) who performed the sampling or measurements;
  3. The date(s) analyses were performed;
  4. The individual(s) who performed the analyses;
  5. The analytical techniques or methods used; and
  6. The results of such analyses.

- E. **Geographic Information System Data.** The Applicant must submit Geographic Information System (GIS) shape files of the Project impact sites within 30 days of the start of project construction and GIS shape files of the Project mitigation sites within 30 days of mitigation installation. All impact and mitigation site shape files must be polygons. Two GPS readings (points) must be taken on each line of the polygon and the polygon must have a minimum of 10 points. GIS metadata must also be submitted.
- F. **Annual Project Progress Reports.** The Applicant must submit annual Project progress reports describing status of BMP implementation, restoration, and compliance with all requirements of this Certification to the San Diego Water Board prior to **March 1** of each year following the issuance of this Certification, until the Project has reached completion. The Annual Project Progress Reports must contain monitoring information sufficient to demonstrate how the restoration project is progressing towards accomplishing its objectives and meeting its performance standards. Annual Project Progress Reports must be submitted even if Project construction has not begun. The monitoring period for each Annual Project Progress Report shall be January 1<sup>st</sup> through December 31<sup>st</sup> of each year. Annual Project Progress Reports must include, at a minimum, the following:
1. **Project Status and Compliance Reporting.** The Annual Project Progress Report must include the following Project status and compliance information:
    - a. The names, qualifications, and affiliations of the persons contributing to the report;
    - b. The status, progress, and anticipated schedule for completion of Project construction activities including the installation and operational status of best management practices project features for erosion and storm water quality treatment;
    - c. A description of Project construction delays encountered or anticipated that may affect the schedule for construction completion; and
    - d. A description of each incident of noncompliance during the annual monitoring period and its cause, the period of the noncompliance including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
  2. **Restoration Monitoring Reporting.** Monitoring information must be submitted as part of the Annual Project Progress Report for a period of not less than five years, sufficient to demonstrate that the project has accomplished its objectives and met ecological success performance standards contained in the Restoration Plan. Following Project implementation, the San Diego Water Board may reduce or waive monitoring requirements upon a determination that performance standards have been achieved. Conversely the San Diego Water Board may extend the monitoring period beyond five years upon a determination that the performance standards have



not been met. The Annual Project Progress Report must include the following restoration monitoring information:

- a. Names, qualifications, and affiliations of the persons contributing to the report;
- b. An evaluation, interpretation, and tabulation of the parameters being monitored, including the results of the Restoration Plan monitoring program, and all quantitative and qualitative data collected in the field;
- c. A description of the following mitigation site(s) characteristics:
  - i. Detritus cover;
  - ii. General topographic complexity;
  - iii. General upstream and downstream habitat and hydrologic connectivity; and
  - iv. Source of hydrology
- d. Monitoring data interpretations and conclusions as to how the restoration project(s) is progressing towards meeting performance standards and whether the performance standards have been met;
- e. A description of the progress toward implementing a plan to manage the restoration project after performance standards have been achieved to ensure the long-term sustainability of the resource in perpetuity, including a discussion of long-term financing mechanisms, the party responsible for long term management, and a timetable for future steps;
- f. Qualitative and quantitative comparisons of current restoration conditions with pre-construction conditions and previous mitigation monitoring results;
- g. Stream photo documentation, including all areas of permanent and temporary impact, prior to and after site construction. Photo documentation must be conducted in accordance with guidelines posted at [http://www.waterboards.ca.gov/sandiego/water\\_issues/programs/401\\_certification/docs/401c/401PhotoDocRB9V713.pdf](http://www.waterboards.ca.gov/sandiego/water_issues/programs/401_certification/docs/401c/401PhotoDocRB9V713.pdf). In addition, photo documentation must include Geographic Positioning System (GPS) coordinates for each of the photo points referenced;
- h. As-built drawings of the compensatory mitigation project site(s), no bigger than 11"X17"; and

**G. Final Project Completion Report.** The Applicant must submit a Final Project Completion Report to the San Diego Water Board **within 30 days of completion of the Project**. The final report must include the following information:

1. Date of construction initiation;
2. Date of construction completion;

3. BMP installation and operational status for the Project;
  4. As-built drawings of the Project, no bigger than 11"X17";
  5. Photo documentation of implemented post-construction BMPs and all areas of permanent and temporary impacts, prior to and after project construction. Photo documentation must be conducted in accordance with guidelines posted at [http://www.waterboards.ca.gov/sandiego/water\\_issues/programs/401\\_certification/docs/401c/401PhotoDocRB9V713.pdf](http://www.waterboards.ca.gov/sandiego/water_issues/programs/401_certification/docs/401c/401PhotoDocRB9V713.pdf). In addition, photo documentation must include Global Positioning System (GPS) coordinates for each of the photo points referenced; and
- H. **Reporting Authority.** The submittal of information required under this Certification, or in response to a suspected violation of any condition of this Certification, is required pursuant to Water Code section 13267 and 13383. Civil liability may be administratively imposed by the San Diego Water Board for failure to submit information pursuant to Water Code sections 13268 or 13385.
- I. **Electronic Document Submittal.** The Applicant must submit all reports and information required under this Certification in electronic format via e-mail to [SanDiego@waterboards.ca.gov](mailto:SanDiego@waterboards.ca.gov). Documents over 50 megabytes will not be accepted via e-mail and must be placed on a disc and delivered to:
- California Regional Water Quality Control Board  
San Diego Region  
Attn: 401 Certification No. R9-2019-0066:791852:amonji  
2375 Northside Drive, Suite 100  
San Diego, California 92108
- Each electronic document must be submitted as a single file, in Portable Document Format (PDF), converted to text searchable format using Optical Character Recognition (OCR), and not be password protected. All electronic documents must include scanned copies of all signature pages; electronic signatures will not be accepted. Please direct questions about large document submittal procedures to Mission Support Services staff at (619) 516-1990. Electronic documents submitted to the San Diego Water Board must include the following identification numbers in the header or subject line: Certification No. R9-2019-0066:791852:amonji.
- J. **Document Signatory Requirements.** All applications, reports, or information submitted to the San Diego Water Board must be signed as follows:
1. For a corporation, by a responsible corporate officer of at least the level of vice president.
  2. For a partnership or sole proprietorship, by a general partner or proprietor, respectively.

3. For a municipality, or a state, federal, or other public agency, by either a principal executive officer or ranking elected official.
4. A duly authorized representative may sign applications, reports, or information if:
  - a. The authorization is made in writing by a person described above.
  - b. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated activity.
  - c. The written authorization is submitted to the San Diego Water Board Executive Officer.

If such authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the Project, a new authorization satisfying the above requirements must be submitted to the San Diego Water Board prior to or together with any reports, information, or applications, to be signed by an authorized representative.

- K. Document Certification Requirements.** All applications, reports, or information submitted to the San Diego Water Board must be certified as follows:

*"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."*

## **VII. NOTIFICATION REQUIREMENTS**

- A. **Twenty Four Hour Non-Compliance Reporting.** The Applicant shall report any noncompliance which may endanger health or the environment. Any such information shall be provided orally to the San Diego Water Board within **24 hours** from the time the Applicant becomes aware of the circumstances. A written submission shall also be provided within five days of the time the Applicant becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected; the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The San Diego Water Board, or an authorized representative, may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.
- B. **Hazardous Substance Discharge.** Except as provided in Water Code section 13271(b), any person who, without regard to intent or negligence, causes or permits any hazardous substance or sewage to be discharged in or on any waters of the State, shall as soon as (a) that person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other

emergency measures, immediately notify the County of San Diego, in accordance with California Health and Safety Code section 5411.5 and the California Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State toxic disaster contingency plan adopted pursuant to Government Code Title 2, Division 1, Chapter 7, Article 3.7 (commencing with section 8574.17), and immediately notify the State Water Board or the San Diego Water Board of the discharge. This provision does not require reporting of any discharge of less than a reportable quantity as provided for under subdivisions (f) and (g) of section 13271 of the Water Code unless the Applicant is in violation of a Basin Plan prohibition.

- C. **Oil or Petroleum Product Discharge.** Except as provided in Water Code section 13272(b), any person who without regard to intent or negligence, causes or permits any oil or petroleum product to be discharged in or on any waters of the State, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the State, shall, as soon as (a) such person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the California Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State oil spill contingency plan adopted pursuant to Government Code Title 2, Division 1, Chapter 7, Article 3.7 (commencing with section 8574.1). This requirement does not require reporting of any discharge of less than 42 gallons unless the discharge is also required to be reported pursuant to Clean Water Act section 311, or the discharge is in violation of a Basin Plan prohibition.
- D. **Anticipated Noncompliance.** The Applicant shall give advance notice to the San Diego Water Board of any planned changes in the Project or the Compensatory Mitigation project which may result in noncompliance with Certification conditions or requirements.
- E. **Commencement of Construction Notification.** The Applicant must notify the San Diego Water Board in writing **at least 5 days prior** to the start of initial Project construction ground disturbance
- F. **Transfers.** This Certification is not transferable in its entirety or in part to any person or organization except after notice to the San Diego Water Board in accordance with the following terms:
1. **Transfer of Property Ownership:** The Applicant must notify the San Diego Water Board of any change in ownership of the Project area. Notification of change in ownership must include, but not be limited to, a statement that the Applicant has provided the purchaser with a copy of the Section 401 Water Quality Certification and that the purchaser understands and accepts the certification requirements and the obligation to implement them or be subject to liability for failure to do so; the seller and purchaser must sign and date the notification and provide such notification to the San Diego Water Board **within 10 days of the transfer of ownership.**
  2. **Transfer of Mitigation Responsibility:** Any notification of transfer of responsibilities to satisfy the mitigation requirements set forth in this Certification

must include a signed statement from an authorized representative of the new party (transferee) demonstrating acceptance and understanding of the responsibility to comply with and fully satisfy the mitigation conditions and agreement that failure to comply with the mitigation conditions and associated requirements may subject the transferee to enforcement by the San Diego Water Board under Water Code section 13385, subdivision (a). Notification of transfer of responsibilities meeting the above conditions must be provided to the San Diego Water Board **within 10 days of the transfer date.**

3. **Transfer of Post-Construction BMP Maintenance Responsibility:** The Applicant assumes responsibility for the inspection and maintenance of all post-construction structural BMPs until such responsibility is legally transferred to another entity. At the time maintenance responsibility for post-construction BMPs is legally transferred the Applicant must submit to the San Diego Water Board a copy of such documentation and must provide the transferee with a copy of a long-term BMP maintenance plan that complies with manufacturer specifications. The Applicant must provide such notification to the San Diego Water Board within **10 days** of the transfer of BMP maintenance responsibility.

Upon properly noticed transfers of responsibility, the transferee assumes responsibility for compliance with this Certification and references in this Certification to the Applicant will be interpreted to refer to the transferee as appropriate. Transfer of responsibility does not necessarily relieve the Applicant of responsibility for compliance with this Certification in the event that a transferee fails to comply.

## VIII. CALIFORNIA ENVIRONMENTAL QUALITY ACT COMPLIANCE

- A. The City of Escondido is the Lead Agency under the California Environmental Quality Act (CEQA) (Public Resources Code section 21000, et seq.) section 21067, and CEQA Guidelines (California Code of Regulations, title 14, section 15000 et seq.) section 15367, and has filed a Notice of Determination dated April 19, 2012 for the Final Environmental Impact Report (FEIR) titled *Citracado Parkway Extension Project* (State Clearing House Number 2007041061). The Lead Agency has determined the Project will have a significant effect on the environment and mitigation measures were made a condition of the Project.
- B. The San Diego Water Board is a Responsible Agency under CEQA (Public Resources Code section 21069; CEQA Guidelines section 15381). The San Diego Water Board has considered the Lead Agency's FEIR and finds that the Project as proposed will have a significant effect on resources within the San Diego Water Board's purview.
- C. The San Diego Water Board has required mitigation measures as a condition of this Certification to avoid or reduce the environmental effects of the Project to resources within the Board's purview to a less than significant level.
- D. The Lead Agency has adopted a mitigation monitoring and reporting program pursuant to Public Resources Code section 21081.6 and CEQA Guidelines section 15097 to ensure that mitigation measures and revisions to the Project identified in the FEIR are implemented. The Mitigation Monitoring and Reporting Program (MMRP) is included

and incorporated by reference in Attachment 5 to this Certification. The Applicant shall implement the Lead Agency's MMRP described in the FEIR, as it pertains to resources within the San Diego Water Board's purview. The San Diego Water Board has imposed additional MMRP requirements as specified in sections V and VI of this Certification.

- E. As a Responsible Agency under CEQA, the San Diego Water Board will file a Notice of Determination in accordance with CEQA Guidelines section 15096 subdivision (i).

#### IX. SAN DIEGO WATER BOARD CONTACT PERSON

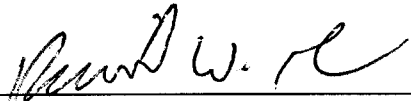
Staff Name, Alan Monji  
Telephone: 619-521-3968  
Email: [Alan.Monji@waterboards.ca.gov](mailto:Alan.Monji@waterboards.ca.gov)

#### X. WATER QUALITY CERTIFICATION

I hereby certify that the proposed discharge from the **Citracado Parkway Extension Project** (Certification No. R9-2019-0066) will comply with the applicable provisions of sections 301 ("Effluent Limitations"), 302 ("Water Quality Related Effluent Limitations"), 303 ("Water Quality Standards and Implementation Plans"), 306 ("National Standards of Performance"), and 307 ("Toxic and Pretreatment Effluent Standards") of the Clean Water Act. This discharge is also regulated under State Water Board Order No. 2003-0017-DWQ, "*Statewide General Waste Discharge Requirements for Dredged or Fill Discharges that have Received State Water Quality Certification (General WDRs)*," which requires compliance with all conditions of this Water Quality Certification. Please note that enrollment under Order No. 2003-017-DWQ is conditional and, should new information come to our attention that indicates a water quality problem, the San Diego Water Board may issue individual waste discharge requirements at that time.

Except insofar as may be modified by any preceding conditions, all Certification actions are contingent on (a) the discharge being limited to, and all proposed mitigation being completed in strict compliance with, the applicants' Project description and/or the description in this Certification, and (b) compliance with all applicable requirements of the Basin Plan.

I, David W. Gibson, Executive Officer, do hereby certify the forgoing is a full, true, and correct copy of Certification No. R9-2019-0066 issued on May 16, 2019.

  
\_\_\_\_\_  
DAVID W. GIBSON  
Executive Officer  
San Diego Water Board

16 May 2019  
Date

# ATTACHMENT 1

## DEFINITIONS

**Activity** - when used in reference to a permit means any action, undertaking, or project including, but not limited to, construction, operation, maintenance, repair, modification, and restoration which may result in any discharge to waters of the state.

**Buffer** - means an upland, wetland, and/or riparian area that protects and/or enhances aquatic resource functions associated with wetlands, rivers, streams, lakes, marine, and estuarine systems from disturbances associated with adjacent land uses.

**California Rapid Assessment Method (CRAM)** - is a wetland assessment method intended to provide a rapid, scientifically-defensible and repeatable assessment methodology to monitor status and trends in the conditions of wetlands for applications throughout the state. It can also be used to assess the performance of compensatory mitigation projects and restoration projects. CRAM provides an assessment of overall ecological condition in terms of four attributes: landscape context and buffer, hydrology, physical structure and biotic structure. CRAM also includes an assessment of key stressors that may be affecting wetland condition and a "field to PC" data management tool (eCRAM) to ensure consistency and quality of data produced with the method.

**Compensatory Mitigation Project** - means compensatory mitigation implemented by the Applicant as a requirement of this Certification (i.e., applicant -responsible mitigation), or by a mitigation bank or an in-lieu fee program.

**Discharge of dredged material** – means any addition of dredged material into, including redeposit of dredged material other than incidental fallback within, the waters of the United States and/or State.

**Discharge of fill material** – means the addition of fill material into waters of the United States and/or State.

**Dredged material** – means material that is excavated or dredged from waters of the United States and/or State.

**Ecological Success Performance Standards** – means observable or measurable physical (including hydrological), chemical, and/or biological attributes that are used to determine if a compensatory mitigation project meets its objectives.

**Enhancement** – means the manipulation of the physical, chemical, or biological characteristics of an aquatic resource to improve a specific aquatic resource function(s). Enhancement results in the gain of selected aquatic resource function(s), but may also lead to a decline in other aquatic resource function(s). Enhancement does not result in a gain in aquatic resource area.

**Establishment** – means the manipulation of the physical, chemical, or biological characteristics present to develop an aquatic resource that did not previously exist. Creation results in a gain in aquatic resource area.

**Fill material** – means any material used for the primary purpose of replacing an aquatic area with dry land or of changing the bottom elevation of a water body.

**Isolated wetland** – means a wetland with no surface water connection to other aquatic resources.

**Mitigation Bank** – means a site, or suite of sites, where resources (e.g., wetlands, streams, riparian areas) are restored, established, enhanced, and/or preserved for the purpose of providing mitigation for impacts authorized by this Certification.

**Preservation** - means the removal of a threat to, or preventing the decline of, aquatic resources by an action in or near those aquatic resources. This term includes activities commonly associated with the protection and maintenance of aquatic resources through the implementation of appropriate legal and physical mechanisms. Preservation does not result in a gain of aquatic resource area or functions.

**Re-establishment** - means the manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/ historic functions to a former aquatic resource. Re-establishment results in rebuilding a former aquatic resource and results in a gain in aquatic resource area and functions.

**Rehabilitation** - means the manipulation of the physical, chemical, or biological characteristics of a site with the goal of repairing natural/ historic functions to a degraded aquatic resource. Rehabilitation results in a gain in aquatic resource function, but does not result in a gain in aquatic resource area.

**Restoration** - means the manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former or degraded aquatic resource. For the purpose of tracking net gains in aquatic resource area, restoration is divided into two categories: re-establishment and rehabilitation.

**Start of Project Construction** - For the purpose of this Certification, "start of Project construction" means to engage in a program of on-site construction, including site clearing, grading, dredging, landfilling, changing equipment, substituting equipment, or even moving the location of equipment specifically designed for a stationary source in preparation for the fabrication, erection or installation of the building components of the stationary source within waters of the United States and/or State.

**Uplands** - means non-wetland areas that lack any field-based indicators of wetlands or other aquatic conditions. Uplands are generally well-drained and occur above (i.e., up-slope) from nearby aquatic areas. Wetlands can, however, be entirely surrounded by uplands. For example, some natural seeps and constructed stock ponds lack aboveground hydrological connection to other aquatic areas. In the watershed context, uplands comprise the landscape matrix in which aquatic areas form. They are the primary sources of sediment, surface runoff, and associated chemicals that are deposited in aquatic areas or transported through them.

**Water quality objectives and other appropriate requirements of state law** – means the water quality objectives and beneficial uses as specified in the appropriate water quality control plan(s); the applicable provisions of sections 301, 302, 303, 306, and 307 of the Clean Water Act; and any other appropriate requirement of state law.



**Waters of the State** - means any surface water or groundwater, including saline waters, within the boundaries of the State. [Water Code section 13050, subd. (e)].



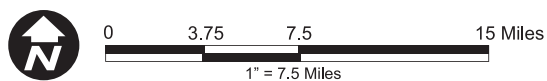
## **ATTACHMENT 2**

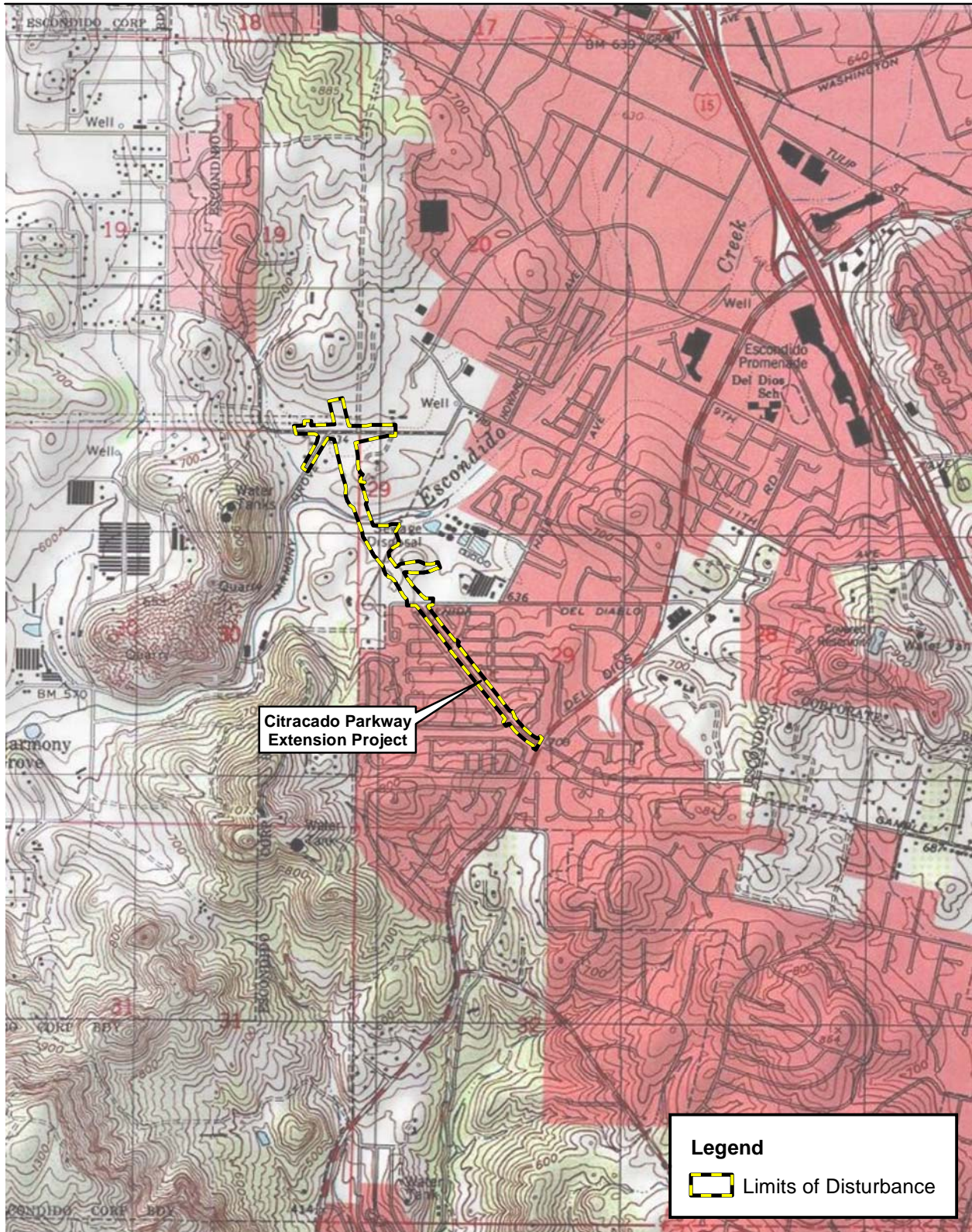
### **LOCATION MAPS AND FIGURES**

1. Citracado Parkway Extension Project Draft EIR, Regional Location Map, Figure 1-1.
2. Citracado Parkway Extension Project Draft EIR, Vicinity Map, Figure 1-2.
3. Citracado Parkway Extension Project Draft EIR, Annexation, Figure 2-1.

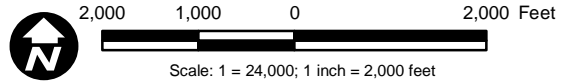


**Figure 1-1  
Regional Location Map**





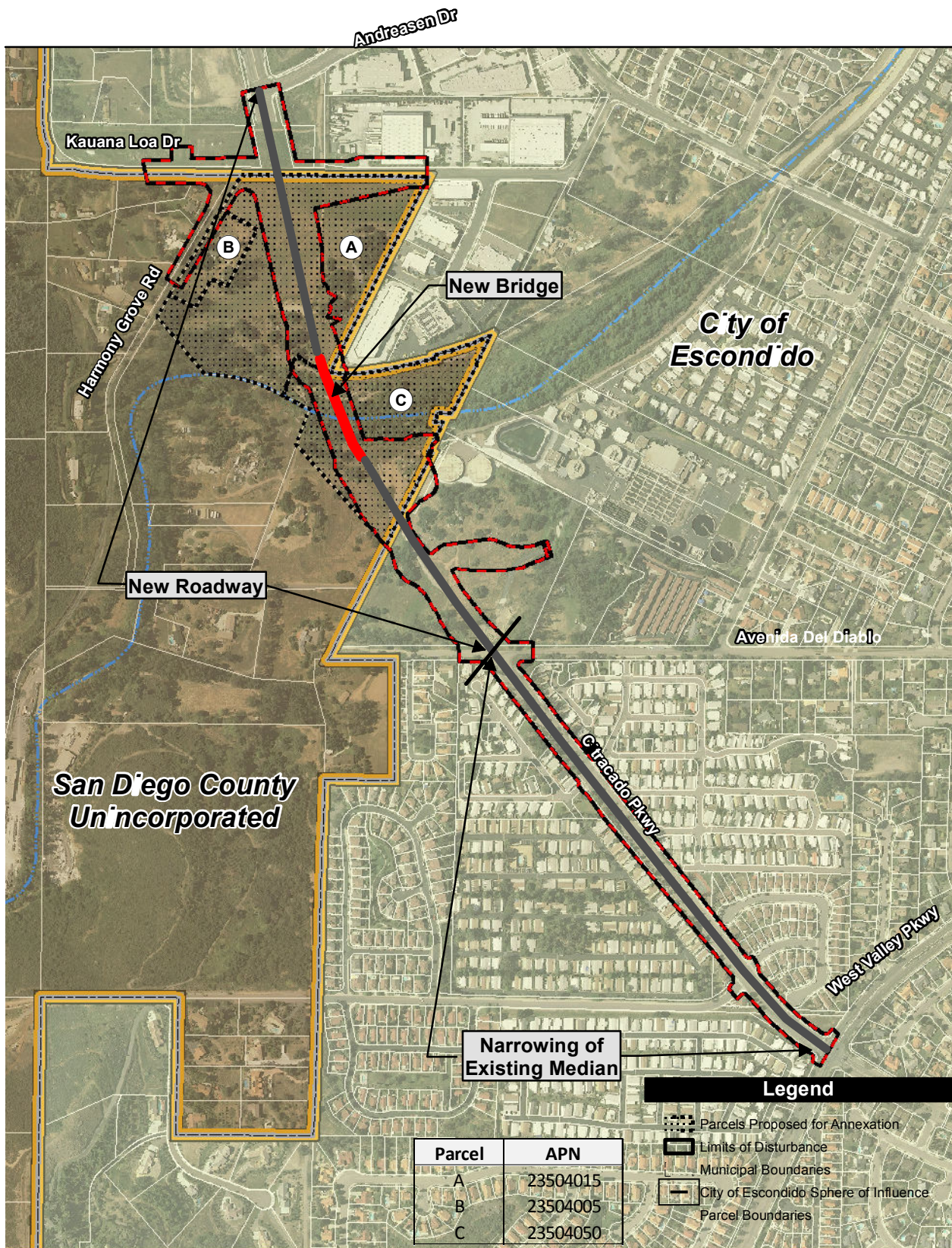
Source: USGS 7.5' Quadrangles, Escondido 1975, Valley Center 1975, Rancho Santa Fe 1983, San Marcos 1983; AECOM 2011



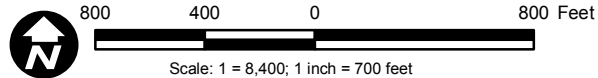
**Figure 1-2**  
**Vicinity Map**

**Citracado Parkway Extension Project Draft EIR**

Path: P:\2006\06080144 Citracado Pkwy\GIS\MXD\2011\_mxd\EIR\_2011\vicinity\_map.mxd, 5/25/2011, Lee J



Source: SanGIS 2011; Boyle Engineering 2007; AECOM 2011; Landiscor 2010

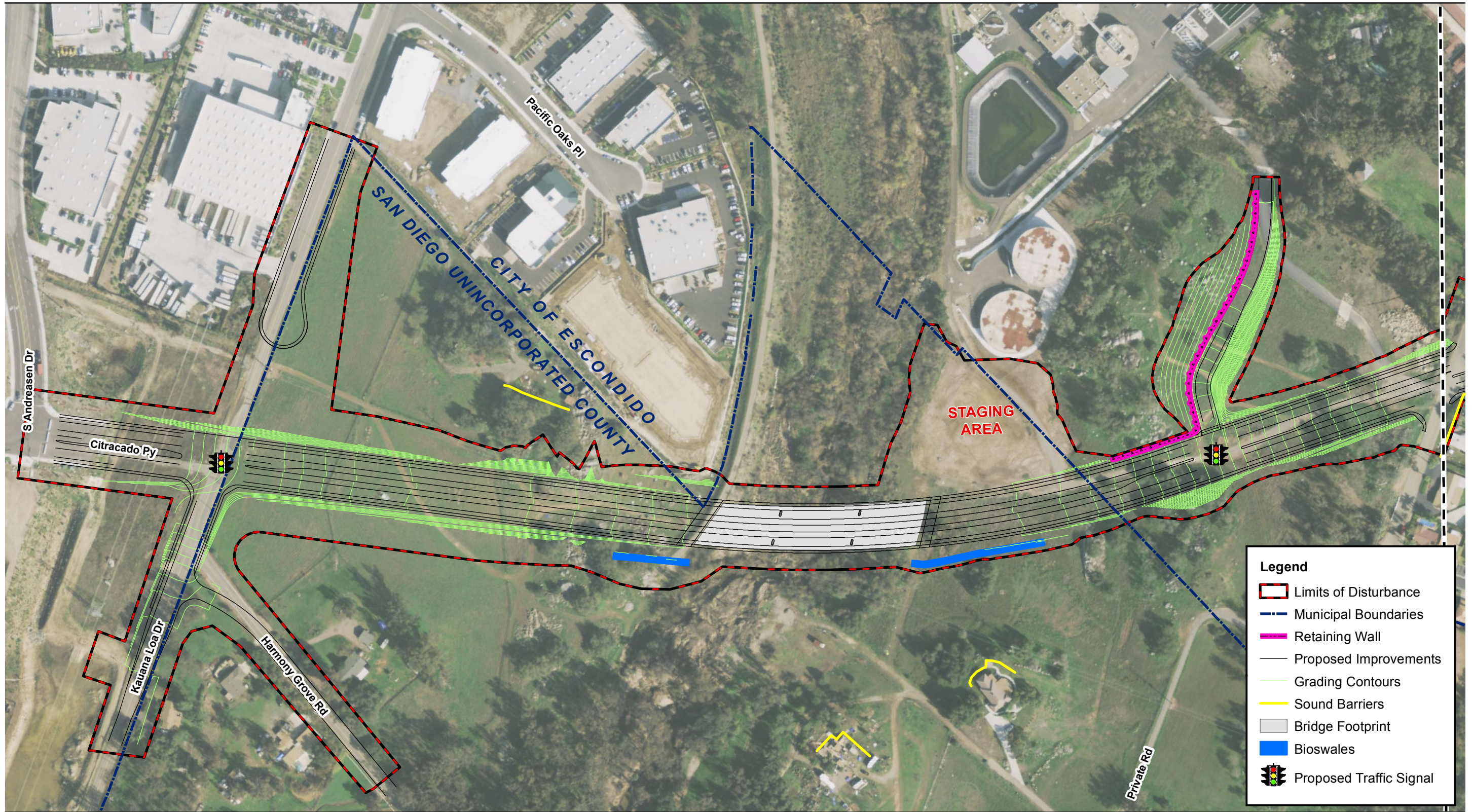


**Figure 2-1**  
**Annexation**

### **ATTACHMENT 3**

#### **PROJECT FIGURES**

1. Citracado Parkway Extension Project Draft EIR, Project Features, Roadway Extension, Figure 2-2.
2. Citracado Parkway Extension Project Draft EIR, Project Features, Roadway Extension, Figure 2-3.
3. Citracado Parkway Jurisdictional Delineation Report, Jurisdictional Waters, Figure 7.
4. City of Escondido – Improvement Plans for Citracado Parkway (West Valley Parkway to Andreasen Drive), Sheets 1-41.



**Legend**

- Limits of Disturbance
- Municipal Boundaries
- Retaining Wall
- Proposed Improvements
- Grading Contours
- Sound Barriers
- Bridge Footprint
- Bioswales
- Proposed Traffic Signal

Source: SanGIS 2010; Boyle Engineering 2007; AECOM 2010

200 100 0 200 Feet

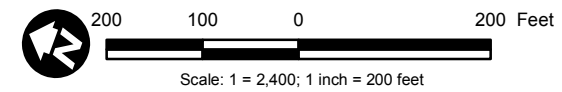
Scale: 1 = 2,400; 1 inch = 200 feet

**Figure 2-2**  
**Project Features: Roadway Extension**

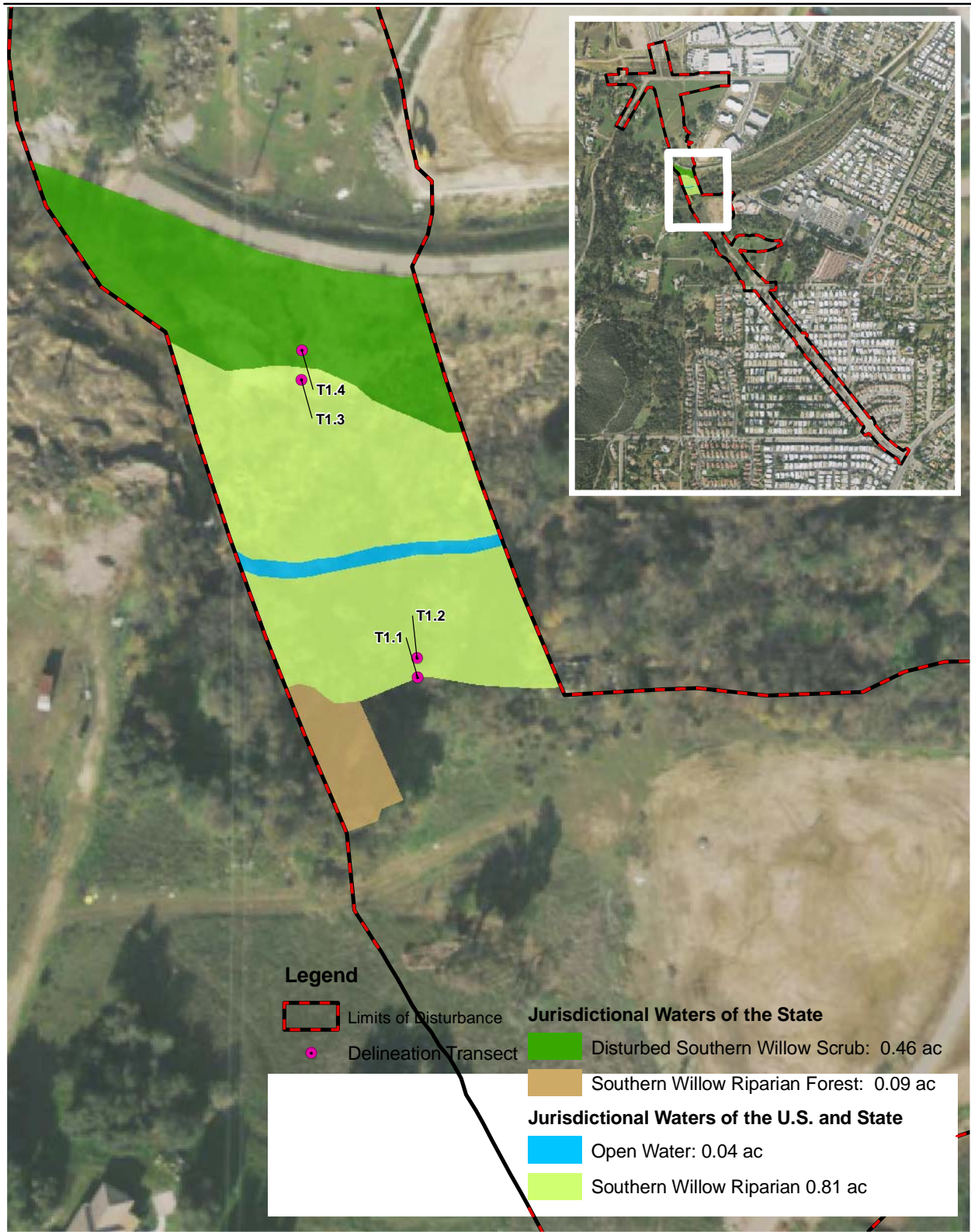




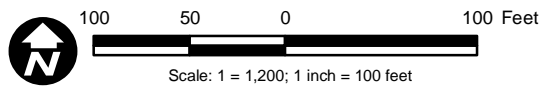
Source: SanGIS 2010; Boyle Engineering 2007; AECOM 2010



**Figure 2-3**  
**Project Features: Roadway Extension**

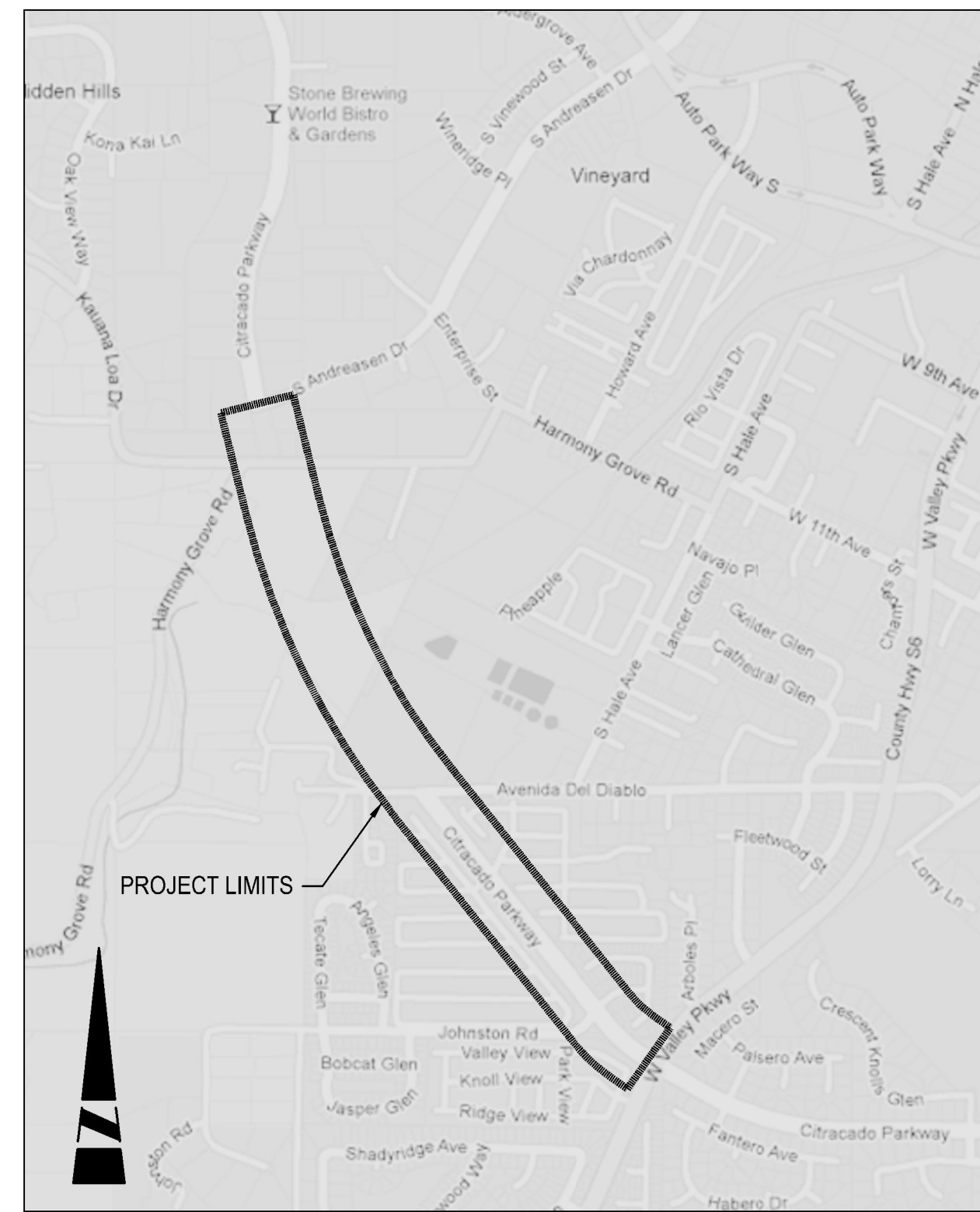
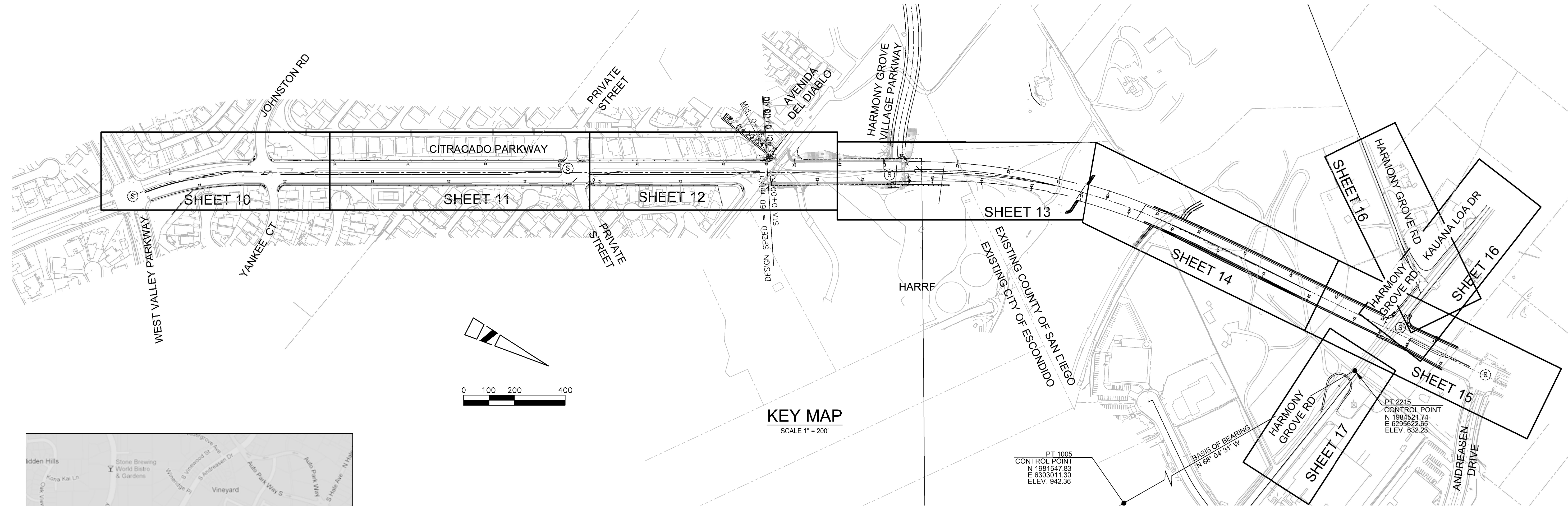


Source: DigitalGlobe 2008; AECOM 2010



**Figure 7**  
**Jurisdictional Waters**

# IMPROVEMENT PLANS FOR CITRACADO PARKWAY (WEST VALLEY PARKWAY to ANDREASEN DRIVE) ER No. 2006-10



**LOCATION MAP**  
NO SCALE

**DECLARATION OF RESPONSIBLE CHARGE**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT. THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF ESCONDIDO AND THE SAN DIEGO COUNTY DEPARTMENT OF HEALTH IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

JOHN C. DULLAGHAN IV \_\_\_\_\_ DATE \_\_\_\_\_  
R.C.E. # 63567  
EXP. DATE: SEPT. 30, 2016

**OWNER / PERMITEE:**

OWNER/DEVELOPER NAME: CITY OF ESCONDIDO  
ADDRESS: 201 NORTH BROADWAY, ESCONDIDO, CA. 92025  
TEL NO: (760) 839-4651  
FAX NO: (760) 869-4597

**ENGINEER:**

AECOM  
401 West A Street, Suite 1200  
SAN DIEGO, CA. 92101  
TEL NO: (619) 610-7809  
FAX NO: (619) 610-7601

**BASIS OF BEARINGS:**

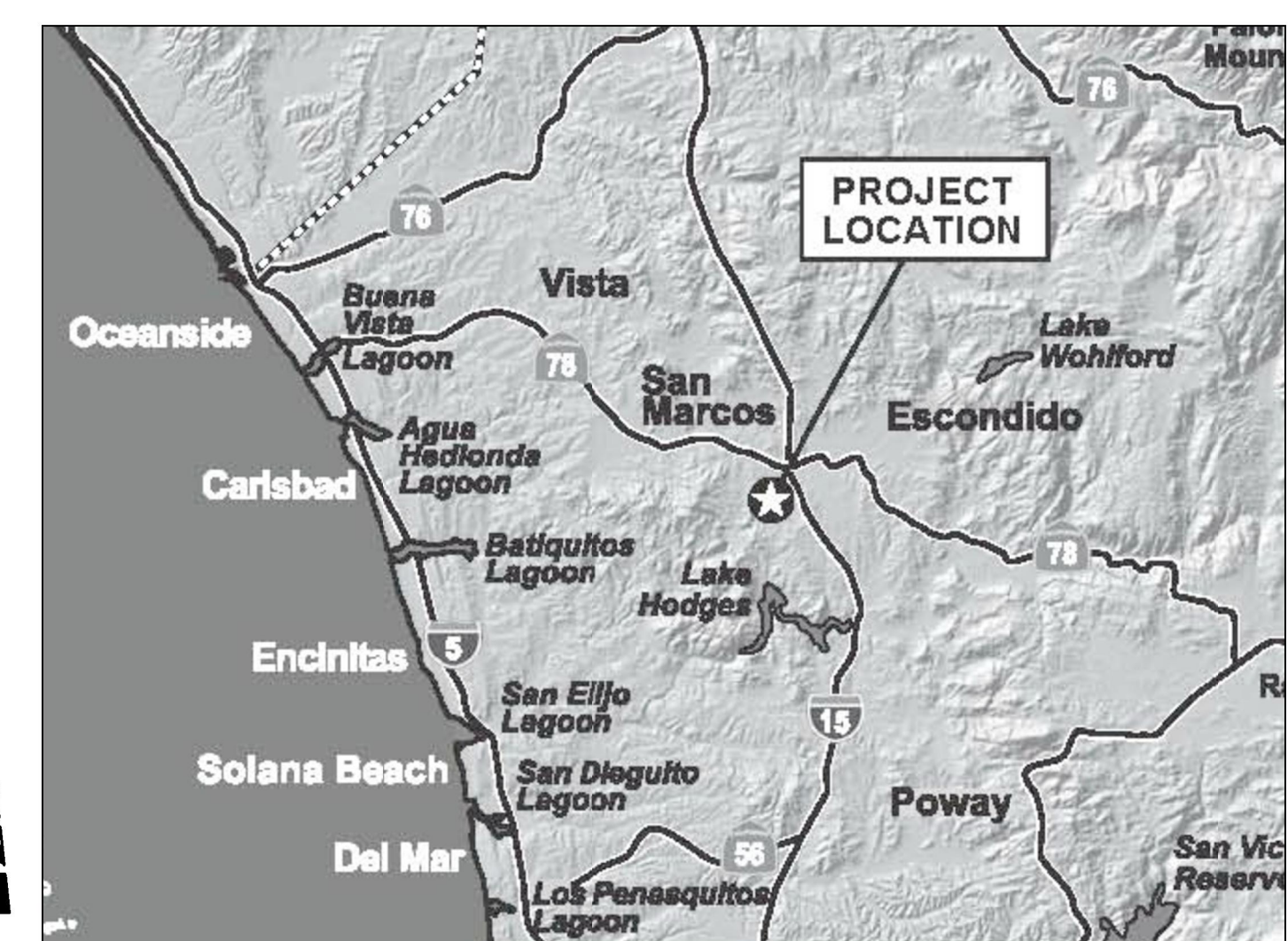
THE GRID BEARING BETWEEN CONTROL POINTS No. 1005 ((LOMAX) AND No. 2215 PER ROS 14236; I.E. N 68°04'31" W.  
DATUM: NAD 83 (1992)

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DEPARTMENT OF ENVIRONMENTAL HEALTH  
CONTROL #RW xxxx

APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_



**VICINITY MAP**  
NO SCALE

DWG: P:\60274407\_ESDC\000\_CADD\006\_Civil\Sheet\60274407-SH11-E-TS-001.dwg

| CONSTRUCTION RECORD | REFERENCES | Date | By | REVISIONS | App'd | Date | BENCH MARK                                                                                                                                                                                                   | SCALE                             | Office | Designed By          | Drawn By | Checked By | Submitted | Approved | CITY OF ESCONDIDO                       | DEPARTMENT OF PUBLIC WORKS | Drawing No.    |
|---------------------|------------|------|----|-----------|-------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------|----------------------|----------|------------|-----------|----------|-----------------------------------------|----------------------------|----------------|
| Contractor          |            |      |    |           |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INTERSECTION OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 642.965 DATUM: NGVD 29. | Horizontal AS SHOWN Vertical NONE |        | JOHN C. DULLAGHAN IV | AJJJD    | JD         |           |          | IMPROVEMENT PLANS FOR CITRACADO PARKWAY | TITLE SHEET                | Sheet 1 of 184 |

DEH CONTROL #RW xxxx

100% SUBMITTAL - NOT FOR CONSTRUCTION - MARCH 2015



**GENERAL NOTES:**

- ALL WORK TO BE DONE IN ACCORDANCE WITH THE "GREEN BOOK" STANDARD SPECIFICATIONS 2012 EDITION, 2012 REGIONAL SUPPLEMENTS, SPECIAL PROVISIONS OF THE CITY OF ESCONDIDO'S DESIGN STANDARDS AND STANDARD DRAWINGS EFFECTIVE APRIL 2, 2014, SAN DIEGO REGIONAL STANDARD DRAWINGS, 2012 EDITION AND CALTRANS STANDARD SPECIFICATIONS AND STANDARD PLANS, 2006 EDITION, ALONG WITH ANY REGIONAL SUPPLEMENTAL AMENDMENTS THERETO.
- ALL CONTRACTORS WORKING IN THE PUBLIC RIGHTS-OF-WAY SHALL OBTAIN A NO - FEE ENCROACHMENT PERMIT FROM THE ENGINEERING FIELD OFFICE. INSPECTION OF ALL WORK IS REQUIRED. CONTACT THE ENGINEERING FIELD OFFICE (859-4664) TO ARRANGE FOR ENCROACHMENT PERMITS AND INSPECTION. TWENTY-FOUR HOUR ADVANCE NOTICE IS REQUIRED FOR INSPECTION. NO WORK SHALL BE PERFORMED IN THE PUBLIC RIGHT-OF-WAY ON SATURDAYS, SUNDAYS OR LEGAL HOLIDAYS WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL SUBSTRUCTURES, BY POTHOLIN G, PRIOR TO THE START OF ANY UNDERGROUND UTILITY INSTALLATION, WHETHER SHOWN HEREON OR NOT, AND PROTECT THEM FROM DAMAGE. THE EXPENSE OF REPAIR OR REPLACEMENT OF SAID SUBSTRUCTURES SHALL BE BORNE BY THE CONTRACTOR.
- NEITHER THE OWNER NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE THEREFOR.
- LOCATION AND ELEVATION OF ALL EXISTING IMPROVEMENTS WITHIN THE AREA OF WORK SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE EFFECTIVE REMOVAL OF ALL MARK-OUT PAINT, PLACED BY OTHERS, USED TO LOCATE SUBSTRUCTURES BEFORE THE FINAL INSPECTION OF THE PROJECT. CLEAN UP SHALL INCLUDE REMOVAL OF ALL UTILITY MARK-OUT PAINT PLACED ON THE JOB SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL MARK-OUT PAINT IN A MANNER THAT WILL NOT DAMAGE OR DEGRADE ANY SURFACE FROM WHICH PAINT IS REMOVED. "BLACKING OUT" OR PAINTING OVER MARK-OUTS IS NOT ACCEPTABLE.

**STREET NOTES:**

- ALL STATIONING REFERS TO THE CENTERLINE OF THE STREET.
- ALL CURB DATA REFER TO THE FACE OF THE CURB.
- STRUCTURAL SECTION TO BE CONFIRMED AFTER ROUGH GRADING IS COMPLETED, ACCORDING TO FIGURE 3 OF THE CITY OF ESCONDIDO DESIGN STANDARDS.

**TRAFFIC CONTROL NOTES:**

- THE CITY ENGINEER OR HIS REPRESENTATIVE HAS THE AUTHORITY TO REVOKE THE PERMIT SHOULD THE PERMITTEE FAIL TO ENSURE PUBLIC SAFETY.
- ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM VIEW WHEN NOT IN USE.
- WORK HOURS SHALL BE RESTRICTED TO BETWEEN 8:00 A.M. TO 4:00 P.M. UNLESS APPROVED OTHERWISE.
- TRAFFIC CONTROL DEVICES ARE TO BE PLACED BY A PERSON TRAINED IN TRAFFIC CONTROL AND ARE TO BE CHECKED, AND MAINTAINED AS NECESSARY, PERIODICALLY THROUGHOUT THE DAY. FAILURE TO MAINTAIN TRAFFIC CONTROL DEVICES MAY RESULT IN ENCROACHMENT PERMIT REVOCATION.
- TRENCHES MUST BE BACKFILLED OR PLATED DURING NON-WORKING HOURS. CONTRACTOR TO PROVIDE SIGNAGE DENOTING "TRENCH PLATE AHEAD" FOR ON-COMING TRAFFIC; ALL REQUIREMENTS SET FORTH IN THE ENCROACHMENT PERMIT GENERAL PROVISIONS #27 AND ESCONDIDO STANDARD DRAWINGS.
- PEDESTRIAN CONTROLS SHALL BE PROVIDED AS SHOWN ON THE PLANS.
- TEMPORARY "NO PARKING" SIGNS WILL BE POSTED 72 HOURS PRIOR TO COMMENCING WORK WHICH INDICATE THE DAY(S) OF THE WEEK AND HOURS OF THE DAY THAT THE WORK IS TO BE PERFORMED.
- ACCESS TO DRIVEWAYS WILL BE MAINTAINED AT ALL TIMES UNLESS OTHER ARRANGEMENTS ARE MADE AND PREVIOUSLY APPROVED BY A CITY ENGINEER OR HIS REPRESENTATIVE.
- THE CONTRACTOR SHALL REPLACE, WITHIN 72 HOURS, ALL TRAFFIC SIGNAL LOOP DETECTORS DAMAGED DURING CONSTRUCTION.
- ALL STRIPING REMOVED OR DAMAGED WILL BE REPLACED BY THE CONTRACTOR WITHIN 24 HOURS (OR REPLACED WITH TEMPORARY TAPE).
- ALL WORKERS SHALL BE EQUIPPED WITH A REFLECTIVE SAFETY VEST. ALL FLAGGERS SHALL ALSO BE EQUIPPED WITH A HARD HAT, C28 "STOP/SLOW" PADDLE AND SHALL BE TRAINED IN THE PROPER FUNDAMENTALS OF FLAGGING TRAFFIC.
- ANY WORK THAT DISTURBS NORMAL TRAFFIC SIGNAL OPERATIONS SHALL BE COORDINATED WITH THE CITY 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN ALL TRAFFIC CONTROL DEVICES 24 HOURS PER DAY AND 7 DAYS PER WEEK.
- A MINIMUM OF TWELVE (12) FOOT TRAVEL LANES MUST BE MAINTAINED UNLESS OTHERWISE APPROVED BY THE CITY.
- ALL NIGHT WORK WILL REQUIRE WRITTEN APPROVAL FROM THE CITY MANAGER. LANE CLOSURES, ROAD DETOURS, ROAD CLOSURES, AND TRAFFIC SIGNAL MODIFICATIONS ASSOCIATED WITH OVERNIGHT CONSTRUCTION ACTIVITIES WILL REQUIRE WARNING SIGNS TO BE PLACED AT LEAST ONE WEEK IN ADVANCE OF STARTING CONSTRUCTION.
- A FLASHING ARROW BOARD SHALL BE REQUIRED ON ALL ARTERIAL STREET LANE CLOSURES.
- DEVIATIONS IN THE ACTUAL PLACEMENT OF TRAFFIC CONTROL DEVICES RELATIVE TO THE APPROVED TRAFFIC CONTROL PLAN ARE PROHIBITED. CHANGES MUST BE SUBMITTED, IN WRITING, TO THE CITY IN THE REQUIRED PLAN FORMAT BY THE PERMITTEE AND APPROVED PRIOR TO IMPLEMENTATION. ALL TRAFFIC CONTROL PLANS MUST BE SIGNED BY A PROFESSIONAL TRAFFIC ENGINEER LICENSED IN CALIFORNIA, UNLESS OTHERWISE REQUESTED BY THE CITY.

**UTILITY NOTES**

- ALL TEMPORARY PAVING PLACED BY ANY CONTRACTOR, SUBCONTRACTOR OR UTILITY COMPANY SHALL REMAIN IN THE PUBLIC RIGHT OF WAY FOR NOT MORE THAN 72 HOURS ON ARTERIALS, MAJOR ROADS, COLLECTORS AND LOCAL COLLECTORS, PRIOR TO PLACEMENT OF PERMANENT PAVEMENT. ALL TEMPORARY PAVING PLACED IN THE PUBLIC RIGHT OF WAY SHALL BE MAINTAINED CONTINUOUSLY IN ACCORDANCE WITH CITY OF ESCONDIDO STANDARD DRAWING NO. G-3-E.
- ALL UNDERGROUND UTILITIES TO BE INSTALLED BEFORE CONSTRUCTION OF CURBS, GUTTERS, SIDEWALKS OR SURFACING OF STREETS.
- UNLESS OTHERWISE SHOWN, SEWER LATERALS AND WATER SERVICES SHALL BE RUN NORMAL TO THE MAIN.
- ALL WATERLINES SHALL HAVE 36" MINIMUM COVER TO FINISHED GRADE.
- A FEE IS CHARGED FOR SHUTTING DOWN OR TAPPING A LIVE WATERLINE. CONTACT THE FIELD ENGINEERING INSPECTOR AT (760) 839-4664 FOR A DETERMINATION OF THE FEE AMOUNT. SCHEDULE ALL SHUTDOWNS THROUGH A FIELD ENGINEERING INSPECTOR. THIS IS ONLY APPLICABLE TO THE CITY OF ESCONDIDO WATERLINES.
- CONTRACTOR SHALL NOTIFY UTILITY COMPANIES PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND COORDINATE HIS WORK WITH COMPANY REPRESENTATIVES. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CONTACT THE UTILITY COMPANIES, ADVISE THEM OF THE PROPOSED IMPROVEMENTS AND BEAR THE COST OF RELOCATIONS, IF NEEDED. SEE OWNER'S LETTER REGARDING UTILITY COORDINATION DATED \_\_\_\_\_.
- THRUST BLOCKS ARE REQUIRED PER S.D. REGIONAL STANDARD DRAWINGS WT-01 AS DIRECTED BY THE ENGINEER.
- ALL REQUIRED WATERLINES AND FIRE HYDRANTS SHALL BE INSTALLED AND IN SERVICE PRIOR TO THE ACCUMULATION OF ANY COMBUSTIBLE MATERIAL ON THE JOB SITE.
- PAVED ACCESS TO THE SITE SHALL BE MAINTAINED FOR THE USE OF HEAVY FIRE FIGHTING EQUIPMENT.
- VERIFICATION OF A SAN DIEGO COUNTY EXPLOSIVE PERMIT AND A POLICY OF CERTIFICATE OF PUBLIC LIABILITY INSURANCE SHALL BE FILED WITH THE FIRE DEPARTMENT PRIOR TO ANY BLASTING WITHIN THE CITY OF ESCONDIDO.
- ALL WATER AND SEWER LINES INCLUDING SERVICES AND LATERALS SHALL BE PROVIDED WITH A 6-INCH WIDE STRIP OF POLYETHYLENE NONMETALLIC DETECTION TAPE ONE FOOT OVER THE PIPE. A BLUE COLOR SHALL BE USED FOR WATER AND RED OR GREEN COLOR FOR SEWER. IN ADDITION, A #10 BARE COPPER WIRE SHALL BE INSTALLED OVER ALL NONMETALLIC WATERLINES. A "W" SHALL BE STAMPED IN THE CURB FACE AT THE WATER SERVICE LOCATION AND "S" SHALL BE STAMPED IN THE CURB AT THE SEWER LATERAL LOCATION.
- ALL ABANDONED SEWER LATERALS SHALL BE CAPPED AT THE PROPERTY LINE. ALL ABANDONED WATER SERVICES SHALL BE SHUT OFF AND DISCONNECTED AT THE MAIN BY MEANS OF A THREADED PLUG OR REPAIR BAND.
- FIRE HYDRANTS MARKERS ARE REQUIRED PER STANDARD DRAWING M-19. LOCATIONS FOR AREAS OUTSIDE OF THE PUBLIC RIGHT OF WAY SHALL BE DETERMINED BY THE FIRE DEPARTMENT.
- THE CONTRACTOR SHALL CONSTRUCT SEWER LATERAL CLEANOUTS IMMEDIATELY BEHIND THE RIGHT OF WAY LINE ON ALL SEWER LATERALS. THE CLEANOUT SHALL BE CONTAINED WITHIN AN ENCLOSURE COVERED WITH A CAST-IRON LID MARKED "SEWER" IF LOCATED IN DRIVEWAYS OR WALKWAYS PER CITY OF ESCONDIDO STANDARD DRAWING S-2-E.

**LEGEND**

| SYMBOLS | DESCRIPTION (EXISTING FEATURES) |
|---------|---------------------------------|
|         | ELECTRIC                        |
|         | OVERHEAD ELECTRIC               |
|         | GAS                             |
|         | RECLAIMED WATER                 |
|         | SEWER                           |
|         | STORM DRAIN                     |
|         | TELEPHONE                       |
|         | WATER                           |
|         | BLOW-OFF                        |
|         | WATER VALVE                     |
|         | POWER POLE                      |
|         | CONTOUR                         |

**WORK TO BE DONE:**

IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS, CITY OF ESCONDIDO'S DESIGN STANDARDS AND STANDARD DRAWINGS DATED APRIL 2, 2014, THE SAN DIEGO REGIONAL STANDARD DRAWINGS, 2012 EDITION AND CALTRANS STANDARD SPECIFICATIONS AND STANDARD PLANS, 2006 EDITION, ALONG WITH ANY REGIONAL SUPPLEMENTAL AMENDMENTS THERETO, "GREEN BOOK" STANDARD SPECIFICATIONS 2012 EDITION, 2012 REGIONAL SUPPLEMENTS, SPECIAL PROVISIONS OF THE CITY OF ESCONDIDO'S DESIGN STANDARDS AND STANDARD DRAWINGS EFFECTIVE APRIL 2, 2014.

**LEGEND**

| SYMBOLS | DESCRIPTION (PROPOSED FEATURES)                      | REGIONAL STANDARD DWG OR DETAIL                                            |
|---------|------------------------------------------------------|----------------------------------------------------------------------------|
|         | 5" ASPHALT CONCRETE OVER 12" CLASS 2 AGGREGATE BASE  |                                                                            |
|         | 3" ASPHALT CONCRETE OVER 6" CLASS 2 AGGREGATE BASE   |                                                                            |
|         | TYPE "G" CURB AND GUTTER (H= 8")                     | G-2 (MODIFIED)                                                             |
|         | TYPE "G" CURB AND GUTTER                             | G-2                                                                        |
|         | 6" TYPE "G" CURB                                     | G-1                                                                        |
|         | TYPE "B-1" CURB (H= 8")                              | G-6 (MODIFIED)                                                             |
|         | CURB RAMP TYPE A                                     | G-27                                                                       |
|         | CURB RAMP TYPE C                                     | G-29                                                                       |
|         | TRUNCATED DOMES, COLONIAL RED COMPLETE               | G-30                                                                       |
|         | MODIFIED CURB RAMP                                   | CITY OF ESCONDIDO STD DWG G-5-E                                            |
|         | CONCRETE DRIVEWAY                                    | G-14A                                                                      |
|         | CONCRETE SIDEWALK                                    | G-7                                                                        |
|         | STREET SURVEY MONUMENT                               | M-10                                                                       |
|         | ROCK SLOPE PROTECTION                                | PER STRUCTURAL PLANS                                                       |
|         | METAL BEAM GUARDRAIL                                 | CSP A77C3, A77C5, A77C6, A77C7, A77F1 TYPE 12B, A77F3, A77J1, A77J4, A77K1 |
|         | TEMPORARY FENCE (TYPE ESA)                           |                                                                            |
|         | DAYLIGHT LINE                                        |                                                                            |
|         | BIOSWALE                                             | (1/92, 2/92, 3/92, 4/92, 5/92, 6/92)                                       |
|         | STORM DRAIN CLEANOUT, TYPE A                         | D-9                                                                        |
|         | STORM DRAIN INLET, TYPE B                            | D-2                                                                        |
|         | STORM DRAIN INLET, TYPE B-1                          | D-2                                                                        |
|         | STORM DRAIN INLET, TYPE B-2                          | D-2                                                                        |
|         | CATCH BASIN, TYPE F                                  | D-7                                                                        |
|         | STORM DRAIN PIPE                                     |                                                                            |
|         | STRAIGHT HEADWALL                                    | D-30                                                                       |
|         | RIP RAP ENERGY DISSIPATOR, 1/2 TON & No. 2 BACKING   | D-40                                                                       |
|         | STREET LIGHT                                         | E-1                                                                        |
|         | IRRIGATION SLEEVES, TRENCH DETAIL PE R               | I-25                                                                       |
|         | GUARD POST AND BARRICADE                             | M-9                                                                        |
|         | SAWCUT AND REMOVE EXISTING PAVEMENT AND BASE SECTION |                                                                            |
|         | COLD PLANE AND AC OVERLAY                            |                                                                            |
|         | CUT AND FILL SLOPES, SLOPE BENCHING                  | DS-10                                                                      |
|         | PROPOSED MAJOR CONTOUR                               |                                                                            |
|         | PROPOSED MINOR CONTOUR                               |                                                                            |
|         | R/W, RIGHT OF WAY                                    |                                                                            |
|         | PROPERTY LINE                                        |                                                                            |
|         | EXISTING ELEVATION                                   |                                                                            |
|         | PROPOSED FLOW LINE                                   |                                                                            |
|         | SOUNDWALL                                            | PER STRUCTURAL PLANS                                                       |
|         | SIGNALIZED INTERSECTION                              |                                                                            |
|         | SOIL NAIL WALL                                       |                                                                            |

**ABBREVIATIONS:**

|          |                                                  |
|----------|--------------------------------------------------|
| AC       | ASPHALT CONCRETE                                 |
| APE      | AREA OF POTENTIAL EFFECT                         |
| BC       | BEGIN CURVE                                      |
| BRS      | BEARING                                          |
| BO       | BLOWOFF                                          |
| BOF      | BOTTOM OF FOOTING                                |
| BP       | BEGIN POINT OF ALIGNMENT                         |
| BVC      | BEGIN VERTICAL CURVE                             |
| CATV PED | CABLE TV PEDESTAL                                |
| CDS      | COUNTY DESIGN STANDARDS                          |
| CIDH     | CAST-IN-DRILLED-HOLE                             |
| CIP      | CENTER IN-PLACE                                  |
| CL       | CENTER LINE                                      |
| COL      | COLUMN                                           |
| CONC     | CONCRETE                                         |
| CSP      | CALTRANS STANDARD PLANS                          |
| Dia      | DIAMETER                                         |
| DG       | DISINTEGRATED GRANITE                            |
| DR       | DRIVE                                            |
| DWY      | DRIVEWAY                                         |
| E        | EASTING/ELECTRIC                                 |
| EC       | END CURVE                                        |
| ELEC VLT | ELECTRIC VAULT                                   |
| ELEV     | ELEVATION                                        |
| EP       | EDGE OF PAVEMENT                                 |
| EP       | END POINT OF ALIGNMENT                           |
| ESMT     | EASEMENT                                         |
| ETW      | EDGE OF TRAVELED WAY                             |
| EVC      | END VERTICAL CURVE                               |
| EXIST/EX | EXISTING                                         |
| FES      | FLARED END SECTION                               |
| FH       | FIRE HYDRANT                                     |
| FL       | FLOW LINE                                        |
| FO       | FIBER OPTIC                                      |
| FTG      | FOOTING                                          |
| GAS V    | GAS VALVE                                        |
| GAS VLT  | GAS VAULT                                        |
| HGL      | HYDRAULIC GRADE LINE                             |
| HARRF    | HALE AVENUE RESOURCE RECOVERY FACILITY           |
| HMA      | HOT MIX ASPHALT                                  |
| HMP      | HYDRO MODIFICATION PLAN                          |
| HORIZ    | HORIZONTAL                                       |
| HP       | HIGH POINT                                       |
| HWL      | HIGH WATER LEVEL                                 |
| ICV      | IRRIGATION CONTROL VALVE                         |
| I.O.D.   | IRREVOCABLE OFFER OF DEDICATION                  |
| IE       | INVERT ELEVATION                                 |
| L        | LENGTH                                           |
| LN       | LANE                                             |
| LOL      | LAYOUT LINE                                      |
| LP       | LOW POINT                                        |
| LT       | LEFT                                             |
| MB       | MAILBOX                                          |
| MIN      | MINIMUM                                          |
| MJ       | MECHANICAL JOINT                                 |
| N        | NORTHING                                         |
| NO.      | NUMBER                                           |
| NB       | NORTH BOUND                                      |
| OC       | ON CENTER                                        |
| OH       | OVERHEAD ELECTRIC                                |
| OS       | OFFSET                                           |
| OT       | OVERHEAD TELEPHONE                               |
| PB       | PULLBOX                                          |
| PCC      | PORTLAND CEMENT CONCRETE/POINT OF COMPOUND CURVE |
| PCR      | POINT OF CURB RETURN                             |
| PRC      | POINT OF REVERSING CURVE                         |
| PED      | PEDESTRIAN/PEDESTAL                              |
| PL       | PROPERTY LINE                                    |
| PP       | POWER POLE                                       |
| PRC      | POINT OF REVERSE CURVE                           |
| PT       | POINT OF TANGENCY                                |
| PVI      | POINT OF VERTICAL INTERSECTION                   |
| PVT      | PRIVATE                                          |
| Q        | FLOW RATE                                        |
| RC       | RELATIVE COMPACTION                              |
| R/W      | RIGHT OF WAY                                     |
| RCB      | REINFORCED CONCRETE BOX                          |
| RCP      | REINFORCED CONCRETE PIPE                         |
| RSP      | ROCK SLOPE PROTECTION                            |
| RD       | ROAD                                             |
| RL       | RELOCATE                                         |
| RM       | REMOVE                                           |
| RS       | ROAD SURVEY                                      |
| RT       | RIGHT                                            |
| RW       | RECYCLED WATER/RETAINING WALL                    |
| S        | SEWER                                            |
| SB       | SOUTH BOUND                                      |
| SDRSD    | SAN DIEGO REGIONAL STANDARD DRAWINGS             |
| SF       | SQUARE FEET                                      |
| SHT      | SHEET                                            |
| SDMH     | STORM DRAIN MANHOLE                              |
| SMH      | SEWER MANHOLE                                    |
| SP       | SIGN POST                                        |
| ST       | STREET                                           |
| STA      | STATION                                          |
| ST LT    | STREET LIGHT                                     |
| ST LT PB | STREET LIGHT PULLBOX                             |
| T        | TELEPHONE                                        |
| TB       | TOP OF BERM                                      |
| TEL CAB  | TELEPHONE CABINET                                |
| TEMP     | TEMPORARY                                        |
| TS       | TRAFFIC SIGNAL                                   |
| TS PB    | TRAFFIC SIGNAL PULLBOX                           |
| TYP      | TYPICAL                                          |
| V        | VELOCITY                                         |
| VC       | VERTICAL CURVE                                   |
| VERT     | VERTICAL                                         |
| W        | WITH                                             |
| W        | WIDTH/WATER                                      |
| WV       | WATER VALVE                                      |
| WW       | WINGWALL                                         |

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100% SUBMITTAL - NOT FOR CONSTRUCTION - MARCH 2015

|                     |           |                |            |  |  |      |    |           |  |  |       |      |            |  |  |       |        |             |          |            |           |          |                        |  |                               |                |
|---------------------|-----------|----------------|------------|--|--|------|----|-----------|--|--|-------|------|------------|--|--|-------|--------|-------------|----------|------------|-----------|----------|------------------------|--|-------------------------------|----------------|
| CONSTRUCTION RECORD |           |                | REFERENCES |  |  | Date | By | REVISIONS |  |  | App'd | Date | BENCH MARK |  |  | SCALE | Office | Designed By | Drawn By | Checked By | Submitted | Approved | CITY OF ESCONDIDO      |  | DEPARTMENT OF PUBLIC WORKS    | Drawing No.    |
| Contractor          | Inspector | Date Completed |            |  |  |      |    |           |  |  |       |      |            |  |  |       |        |             |          |            |           |          | IMPROVEMENT PLANS FOR: |  | NOTES, LEGEND & ABBREVIATIONS | Sheet 2 of 184 |
|                     |           |                |            |  |  |      |    |           |  |  |       |      |            |  |  |       |        |             |          |            |           |          | CITRACADO PARKWAY      |  |                               |                |



# NOT USED

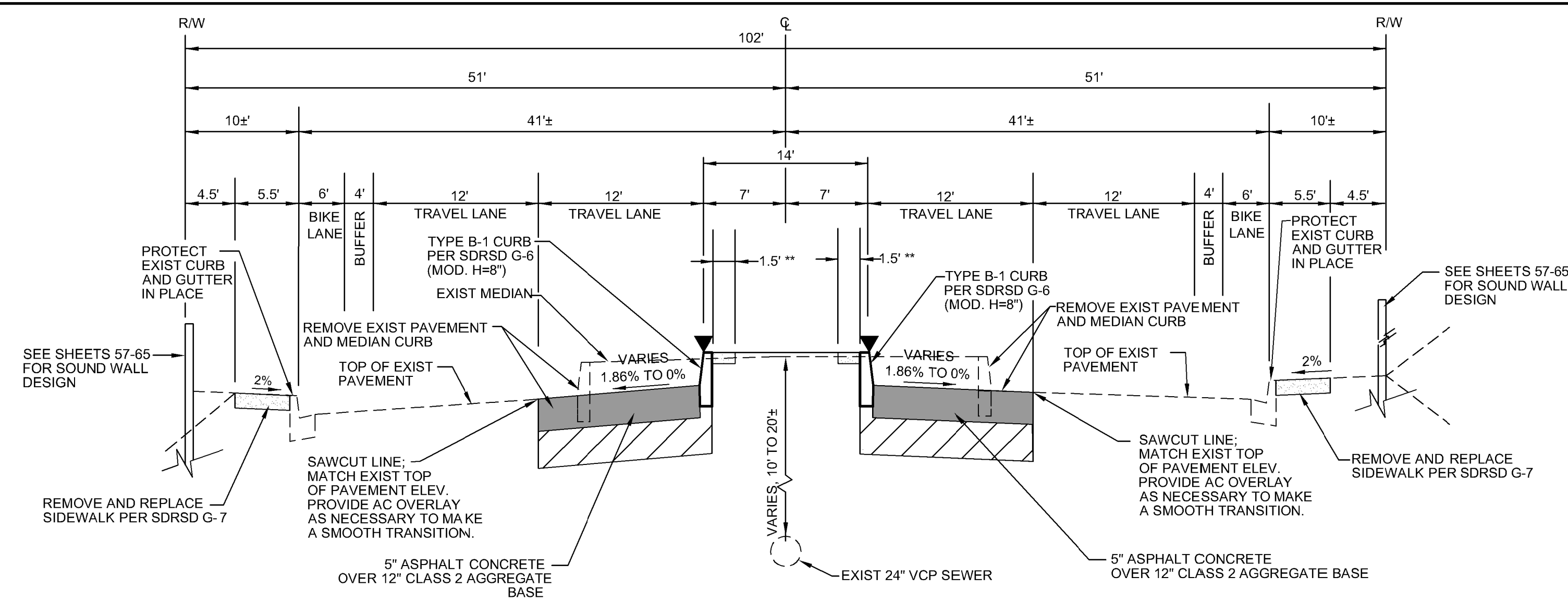
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|                     |  |            |  |      |    |           |  |       |      |                                                                                                                                                                                                      |            |         |                                     |          |            |                         |                                    |                        |                            |                |
|---------------------|--|------------|--|------|----|-----------|--|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|-------------------------------------|----------|------------|-------------------------|------------------------------------|------------------------|----------------------------|----------------|
| CONSTRUCTION RECORD |  | REFERENCES |  | Date | By | REVISIONS |  | App'd | Date | BENCH MARK                                                                                                                                                                                           | SCALE      | Office  | Designed By                         | Drawn By | Checked By | Submitted               | Approved                           | CITY OF ESCONDIDO      | DEPARTMENT OF PUBLIC WORKS | Drawing No.    |
| Contractor          |  |            |  |      |    |           |  |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 642.965 DATUM: NGVD 29. | Horizontal |         | KO                                  | AJJD     | JD         |                         |                                    | IMPROVEMENT PLANS FOR: |                            |                |
| Inspector           |  |            |  |      |    |           |  |       |      |                                                                                                                                                                                                      | NONE       | Filmed  | Plans Prepared Under Supervision Of |          |            | By                      | By                                 | CITRACADO PARKWAY      | DETAILS                    |                |
| Date Completed      |  |            |  |      |    |           |  |       |      |                                                                                                                                                                                                      | Vertical   | Traffic | JOHN C. DULLAGHAN IV                |          |            | Assistant City Engineer | Assistant Director of Public Works |                        |                            | Sheet 3 of 184 |
|                     |  |            |  |      |    |           |  |       |      |                                                                                                                                                                                                      | NONE       |         |                                     |          |            |                         |                                    |                        |                            |                |

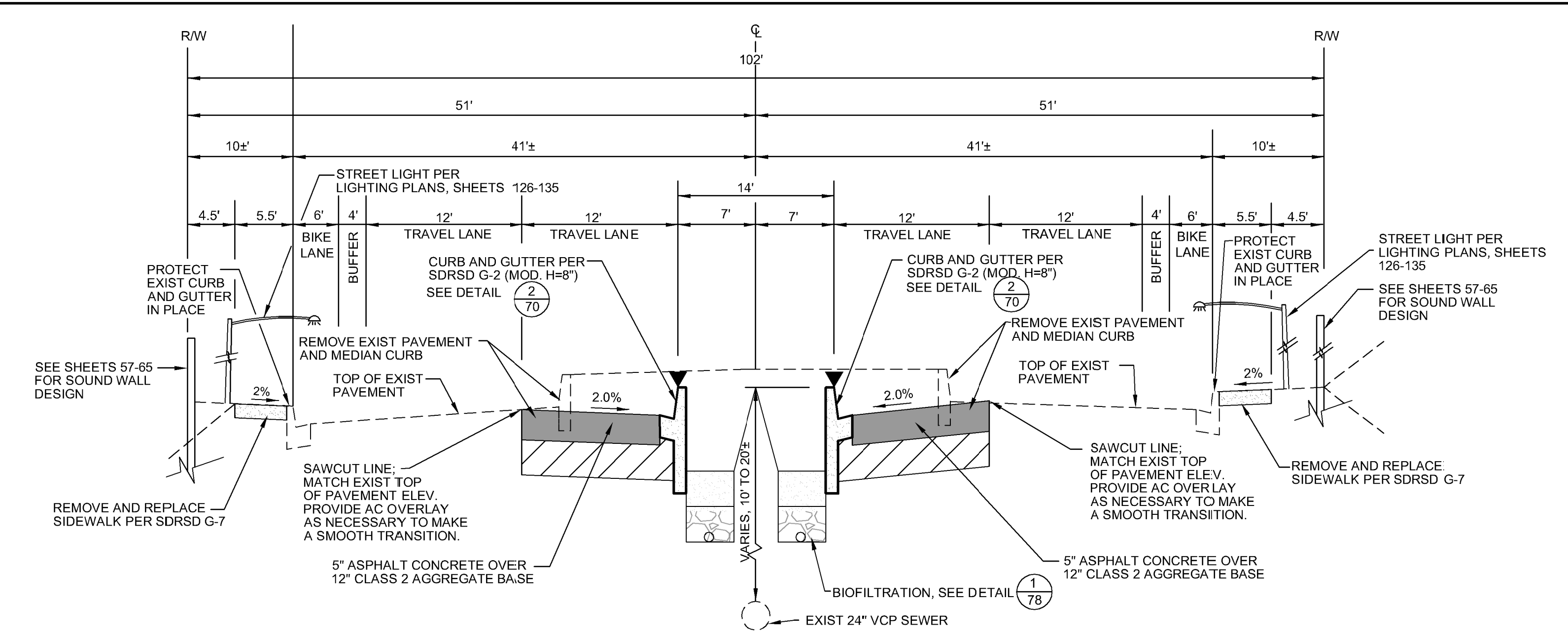
100% SUBMITTAL - NOT FOR CONSTRUCTION - MARCH \_\_, 2015



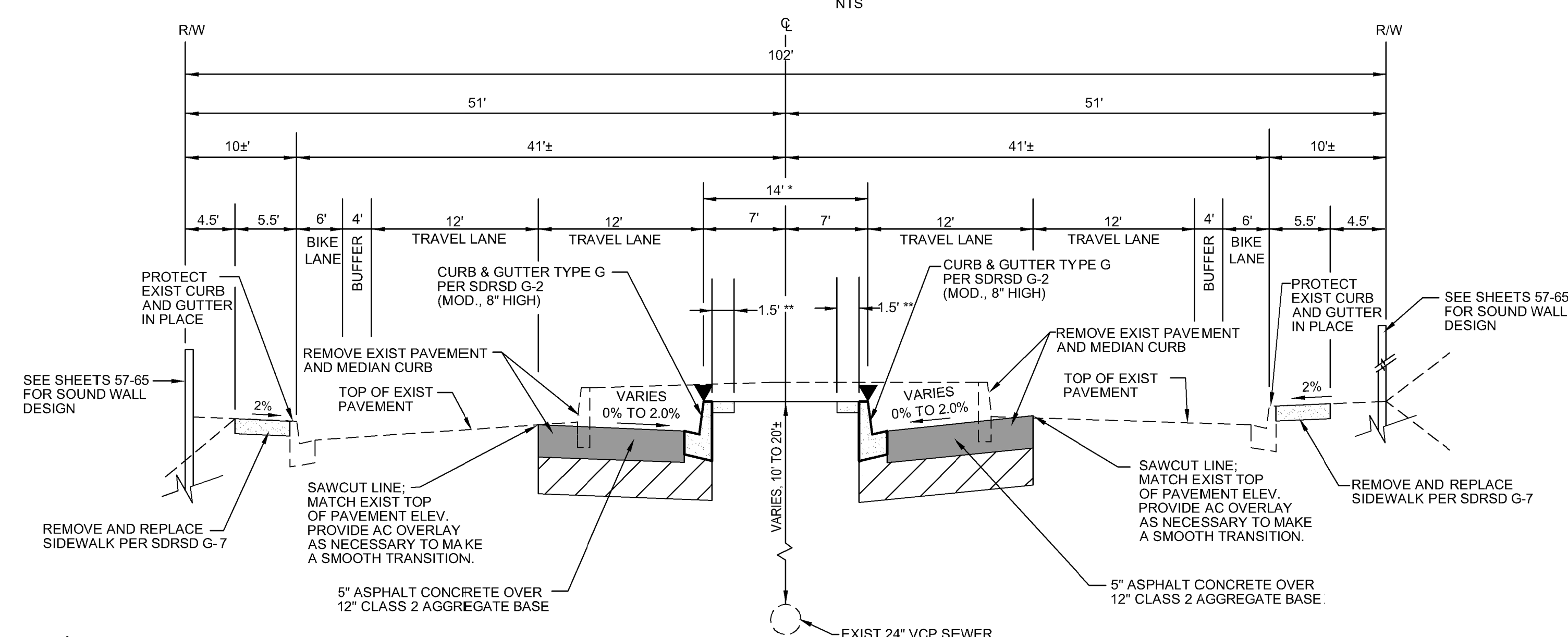


TYPICAL SECTION - CITRACADO PARKWAY  
FROM JOHNSTON ROAD AND YANKEE COURT TO AVENIDA DEL DIABLO  
STA. 17+60.66 TO STA. 19+00.00

\*\* CONCRETE STRIP FOR MAINTENANCE; SEE PLANS FOR LOCATION.

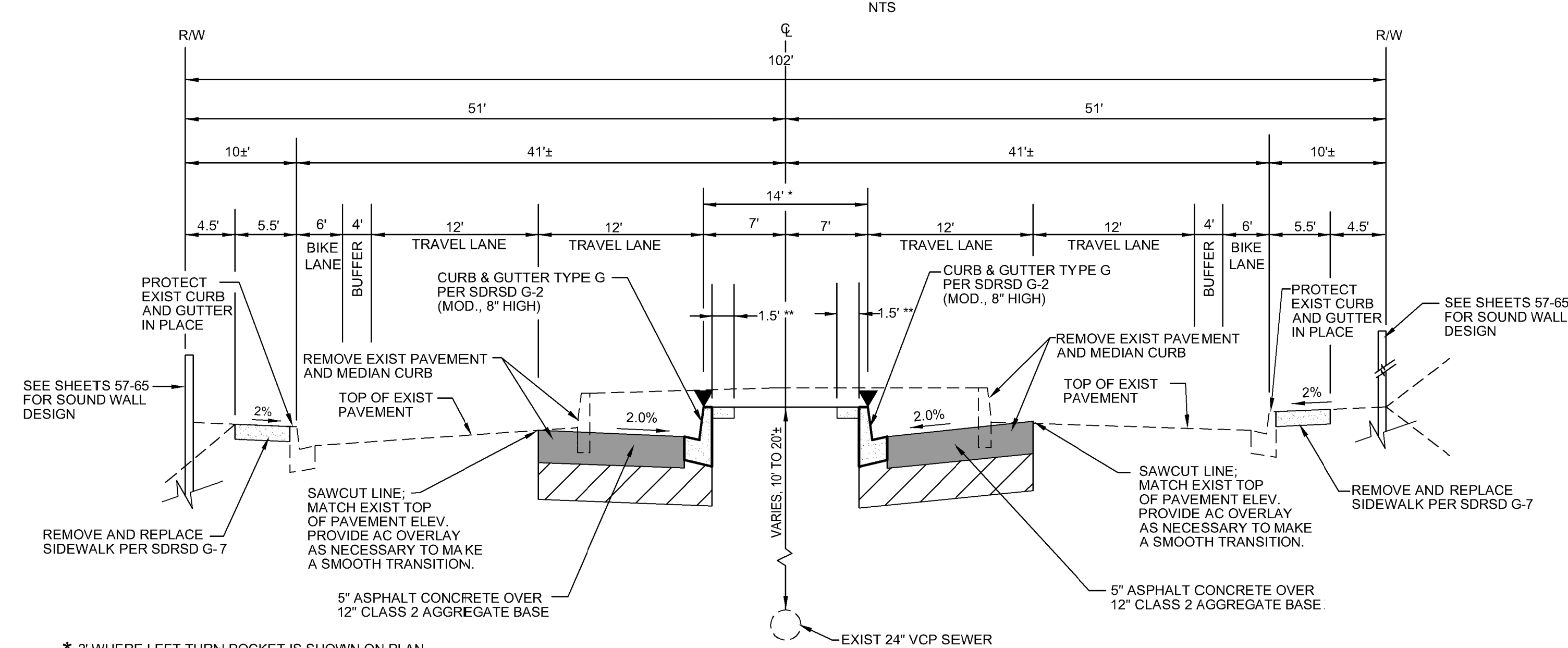


TYPICAL SECTION - CITRACADO PARKWAY  
STA 23+00 TO STA 25+02.11, STA 31+50 TO STA 33+50



TYPICAL SECTION - CITRACADO PARKWAY  
FROM JOHNSTON ROAD AND YANKEE COURT TO AVENIDA DEL DIABLO  
STA 19+00.00 TO 20+50.00

\*\* CONCRETE STRIP FOR MAINTENANCE; SEE PLANS FOR LOCATION.



TYPICAL SECTION - CITRACADO PARKWAY  
FROM JOHNSTON ROAD AND YANKEE COURT TO AVENIDA DEL DIABLO  
STA 20+50 TO 23+00, STA 25+02.11 TO 27+13.41, STA 28+25 TO STA 31+50, STA 33+50 TO STA 34+93.22

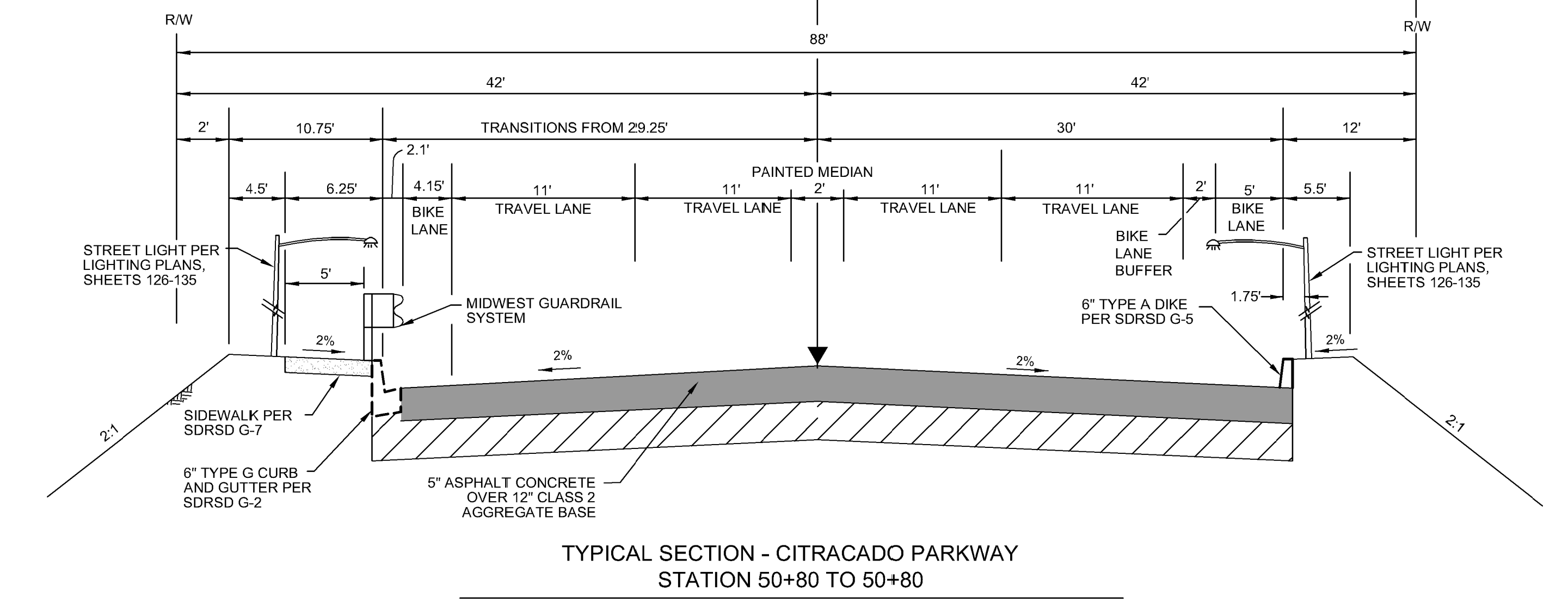
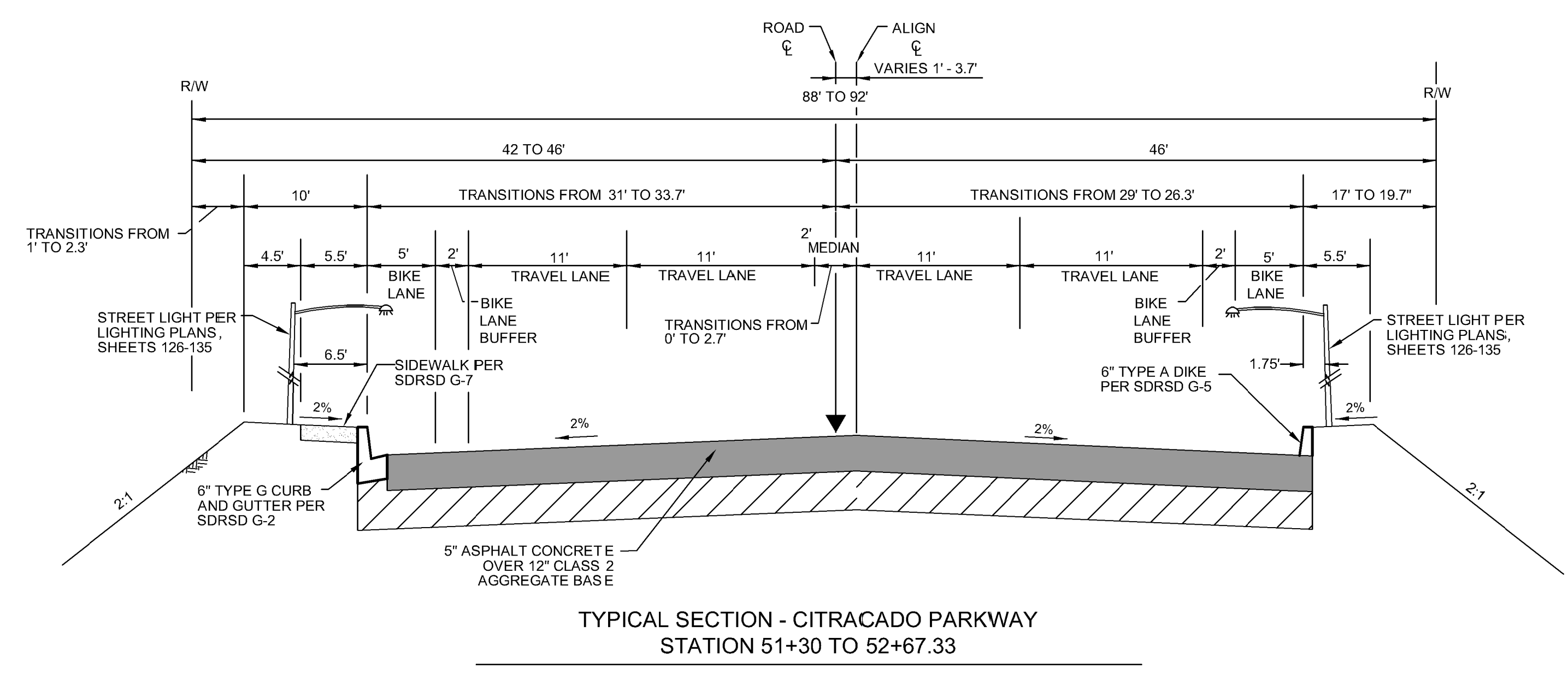
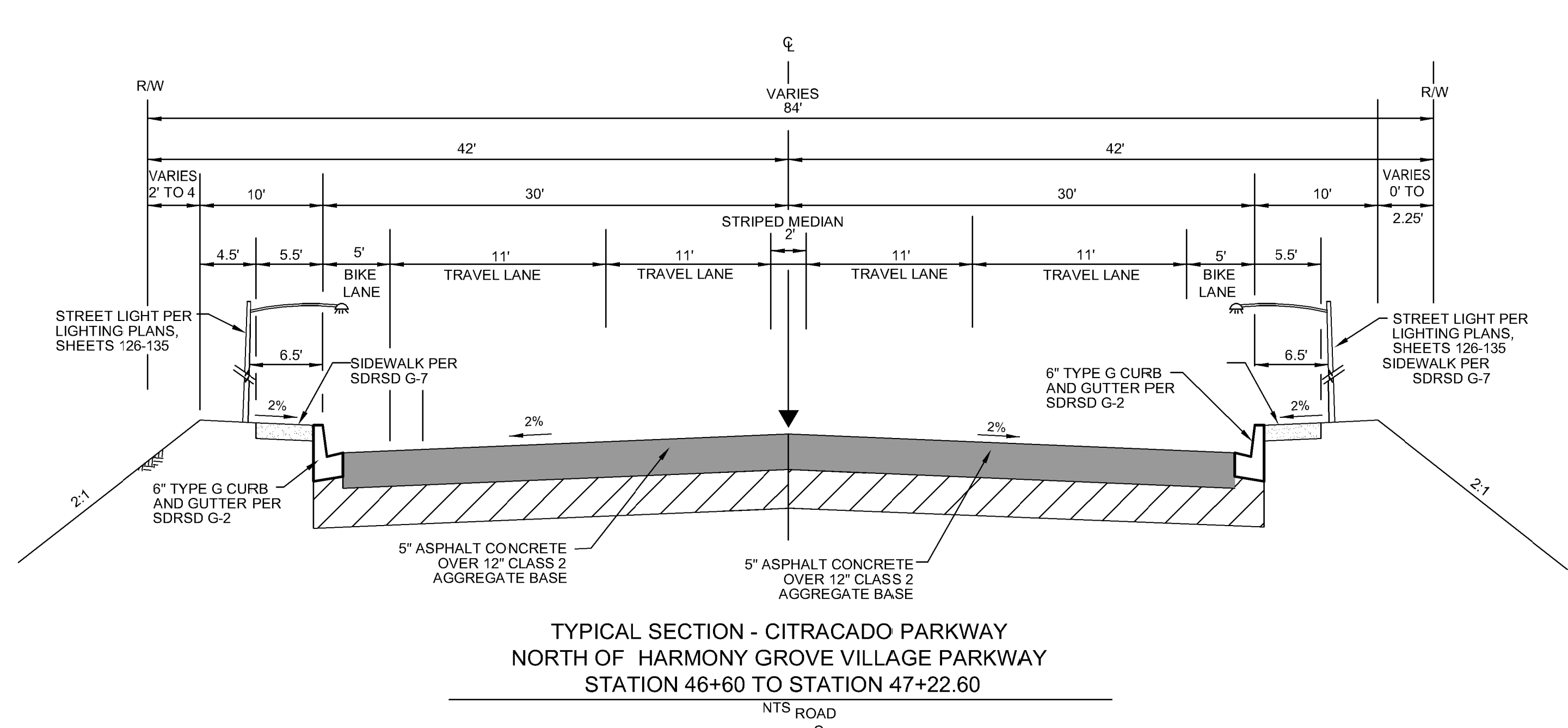
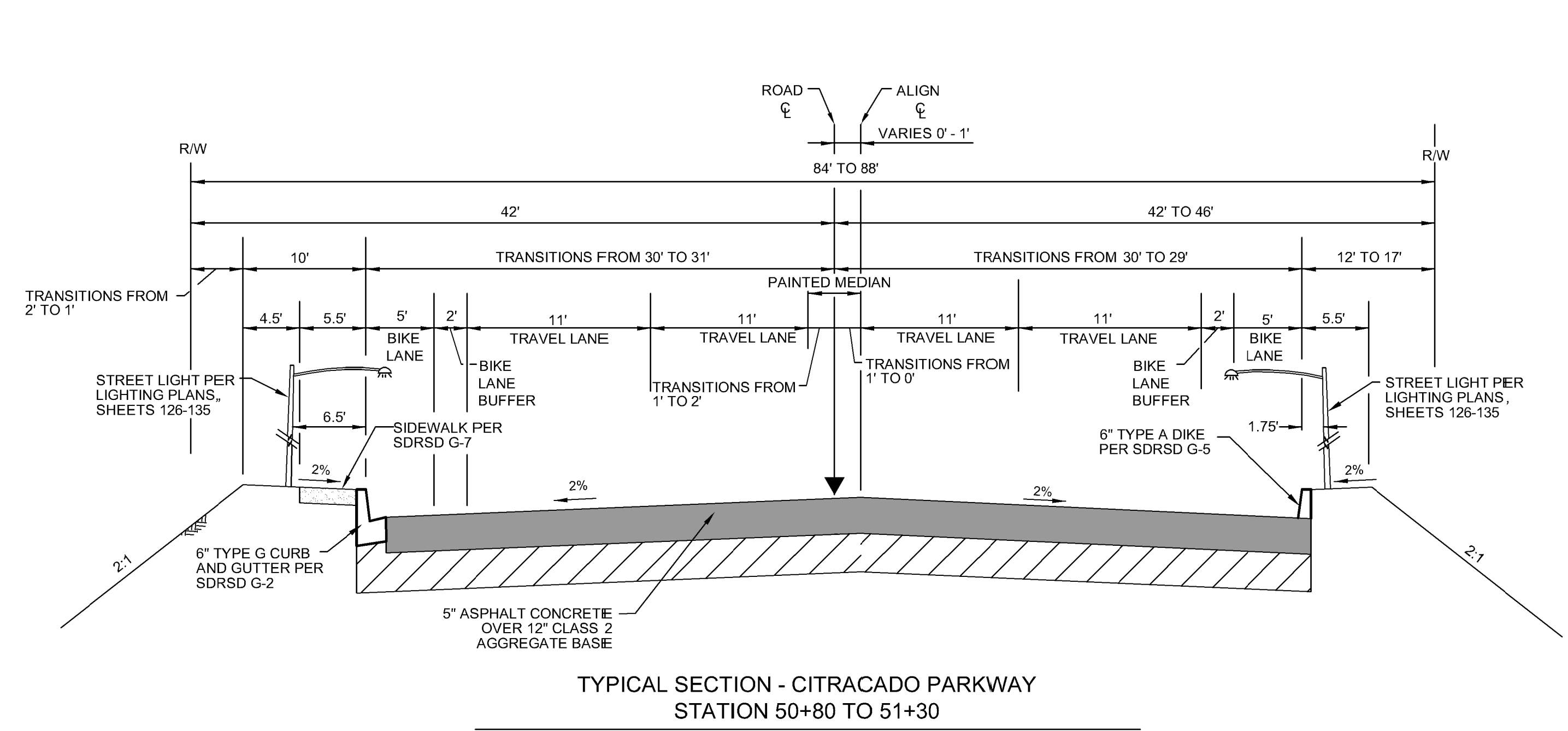
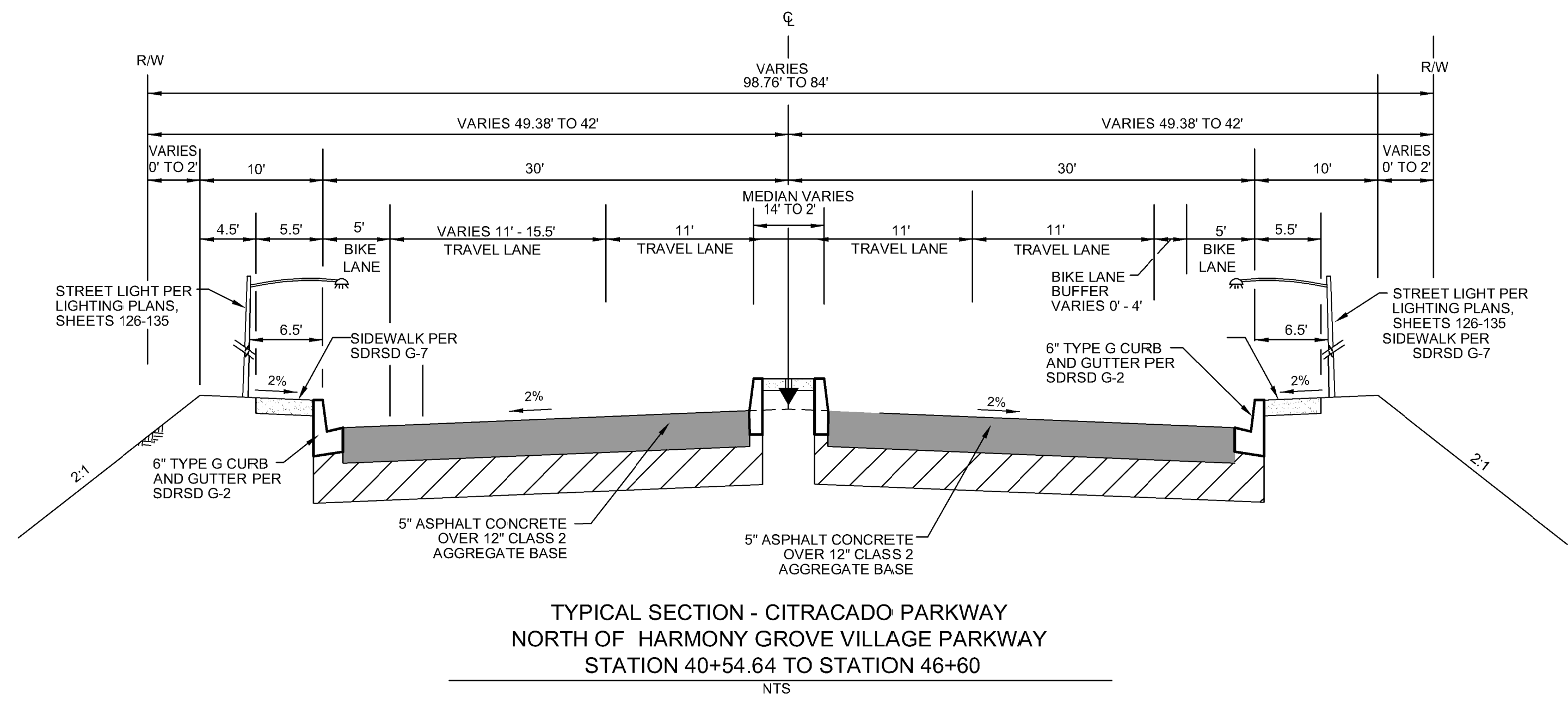
\*\* CONCRETE STRIP FOR MAINTENANCE; SEE PLANS FOR LOCATION.

▼ DENOTES FINISHED GRADE ELEVATION AS SHOWN ON PROFILE.



DWG: P:\60274407\_5830\_000\_CAD\006\_Civil\Sheet3\60274407\_S11-C-15-005.dwg

| CONSTRUCTION RECORD | REFERENCES | Date | By | REVISIONS | App'd | Date | BENCH MARK                                                                                                                                                                                                   | SCALE      | Office  | Designed By                         | Drawn By | Checked By | Submitted | Approved | CITY OF ESCONDIDO      | DEPARTMENT OF PUBLIC WORKS | Drawing No.    |
|---------------------|------------|------|----|-----------|-------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|-------------------------------------|----------|------------|-----------|----------|------------------------|----------------------------|----------------|
| Contractor          |            |      |    |           |       |      | CONTROL PT. 2045 PER RECORD OF SURVEY 14236 A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INTERSECTION OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 642.965 DATUM: NGVD 29. | Horizontal | Filed   | KO                                  | AJUD     | JD         |           |          | IMPROVEMENT PLANS FOR: |                            |                |
| Inspector           |            |      |    |           |       |      |                                                                                                                                                                                                              | Vertical   |         | Plans Prepared Under Supervision Of |          |            |           |          | CITRACADO PARKWAY      |                            |                |
| Date Completed      |            |      |    |           |       |      |                                                                                                                                                                                                              | NONE       | Traffic | JOHN C. DULLAGHAN IV                |          |            |           |          | CROSS SECTIONS         |                            | Sheet 5 of 184 |



▼ DENOTES FINISHED GRADE ELEVATION AS SHOWN ON PROFILE.

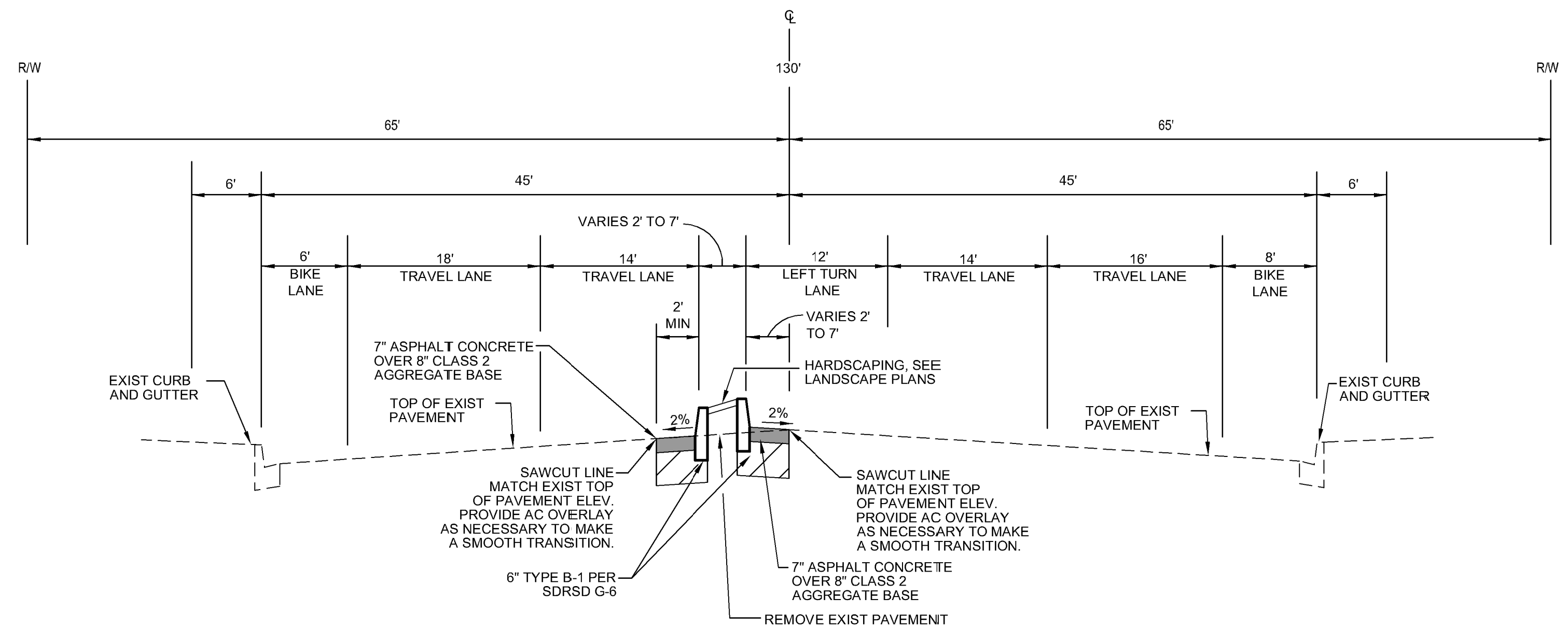


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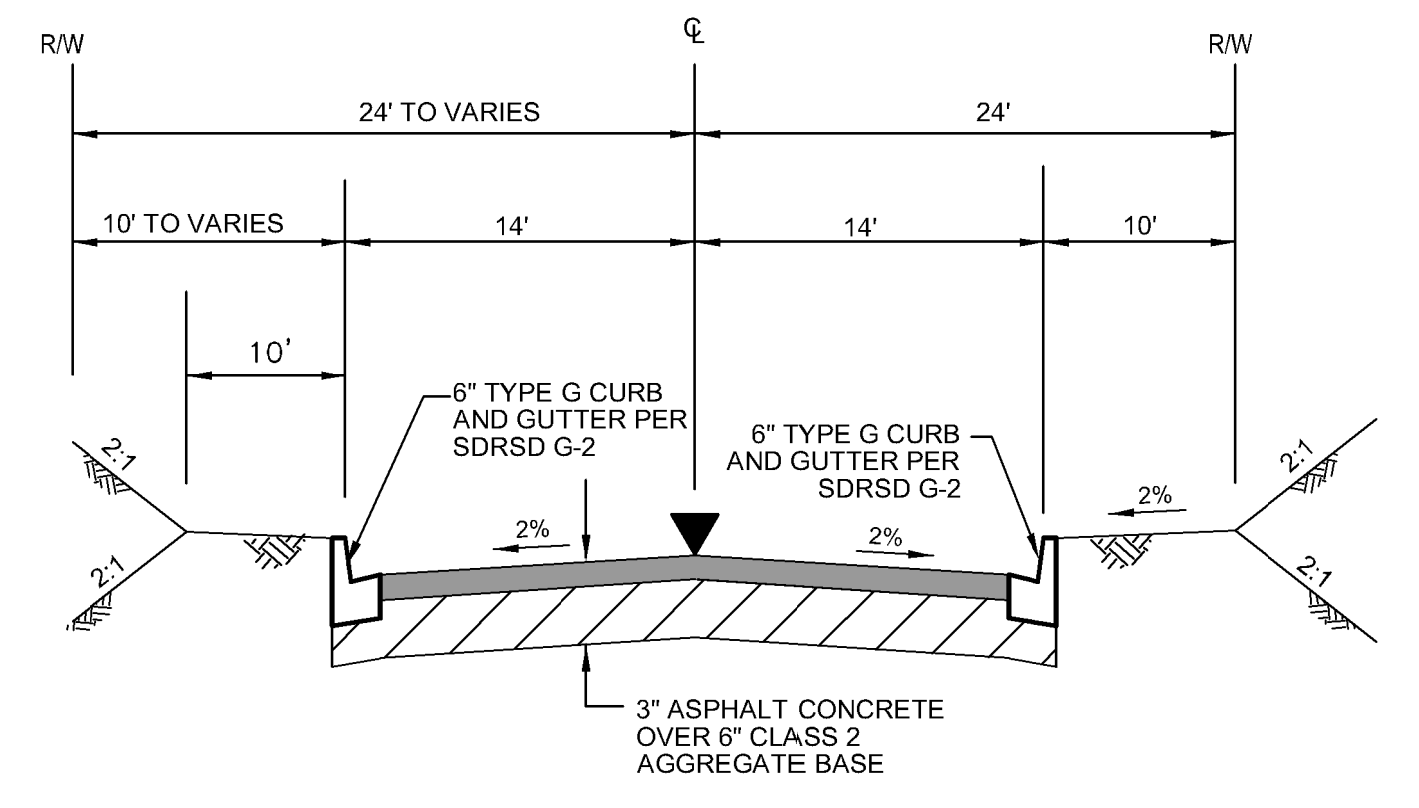
| CONSTRUCTION RECORD |  | REFERENCES |  | REVISIONS |  | BENCH MARK |  | SCALE      |  | Office |  | Designed By          |       | Drawn By |  | Checked By |  | Submitted |  | Approved |  | CITY OF ESCONDIDO      |  | DEPARTMENT OF PUBLIC WORKS |  | Drawing No. |  |
|---------------------|--|------------|--|-----------|--|------------|--|------------|--|--------|--|----------------------|-------|----------|--|------------|--|-----------|--|----------|--|------------------------|--|----------------------------|--|-------------|--|
| Contractor          |  |            |  |           |  |            |  | Horizontal |  |        |  | KO                   | AJJJD | JD       |  |            |  |           |  |          |  | IMPROVEMENT PLANS FOR: |  | CROSS SECTIONS             |  |             |  |
| Inspector           |  |            |  |           |  |            |  | Vertical   |  |        |  | JOHN C. DULLAGHAN IV |       |          |  |            |  |           |  |          |  | CITRACADO PARKWAY      |  |                            |  |             |  |
| Date Completed      |  |            |  |           |  |            |  | NONE       |  |        |  |                      |       |          |  |            |  |           |  |          |  |                        |  |                            |  |             |  |



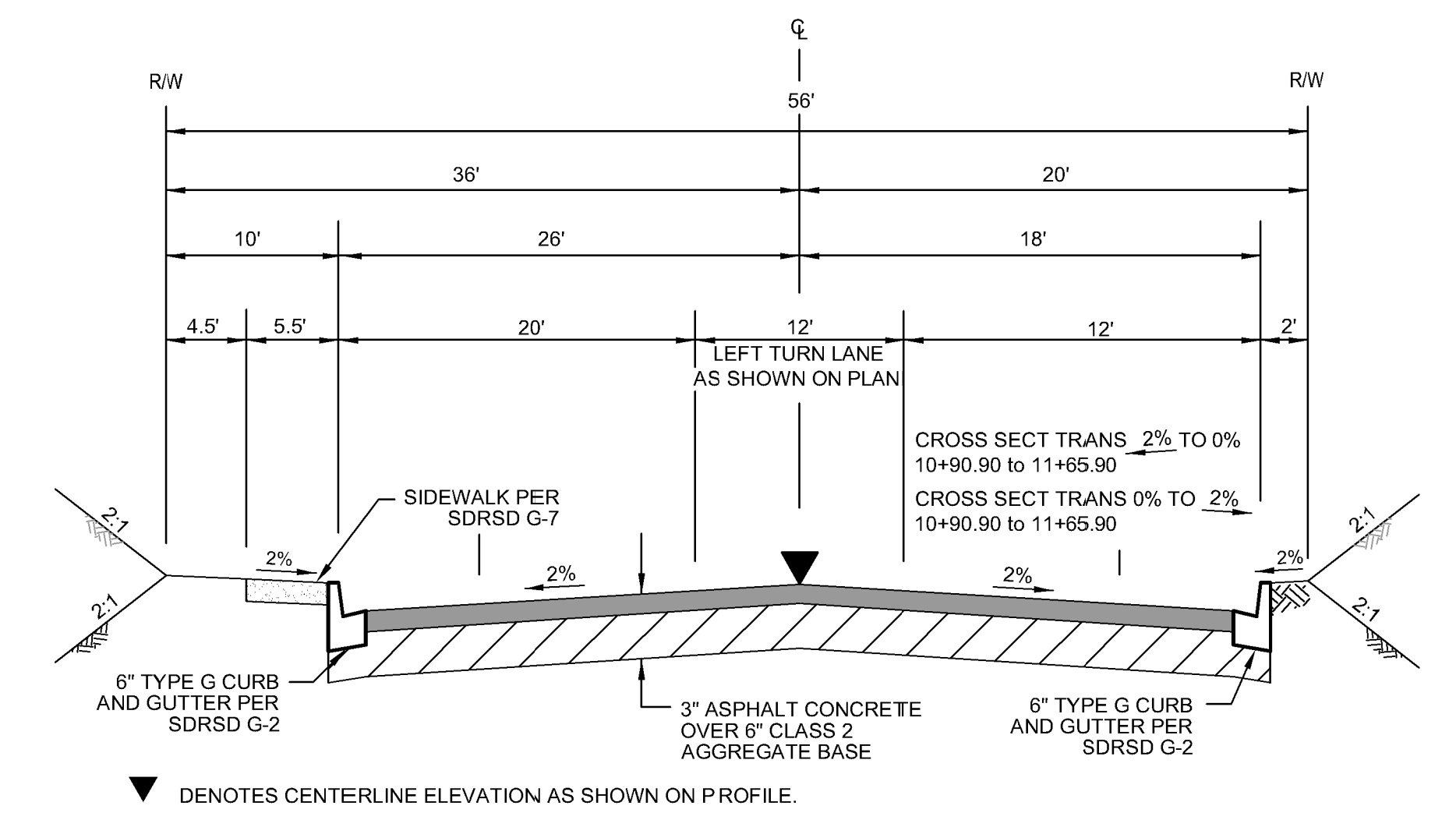




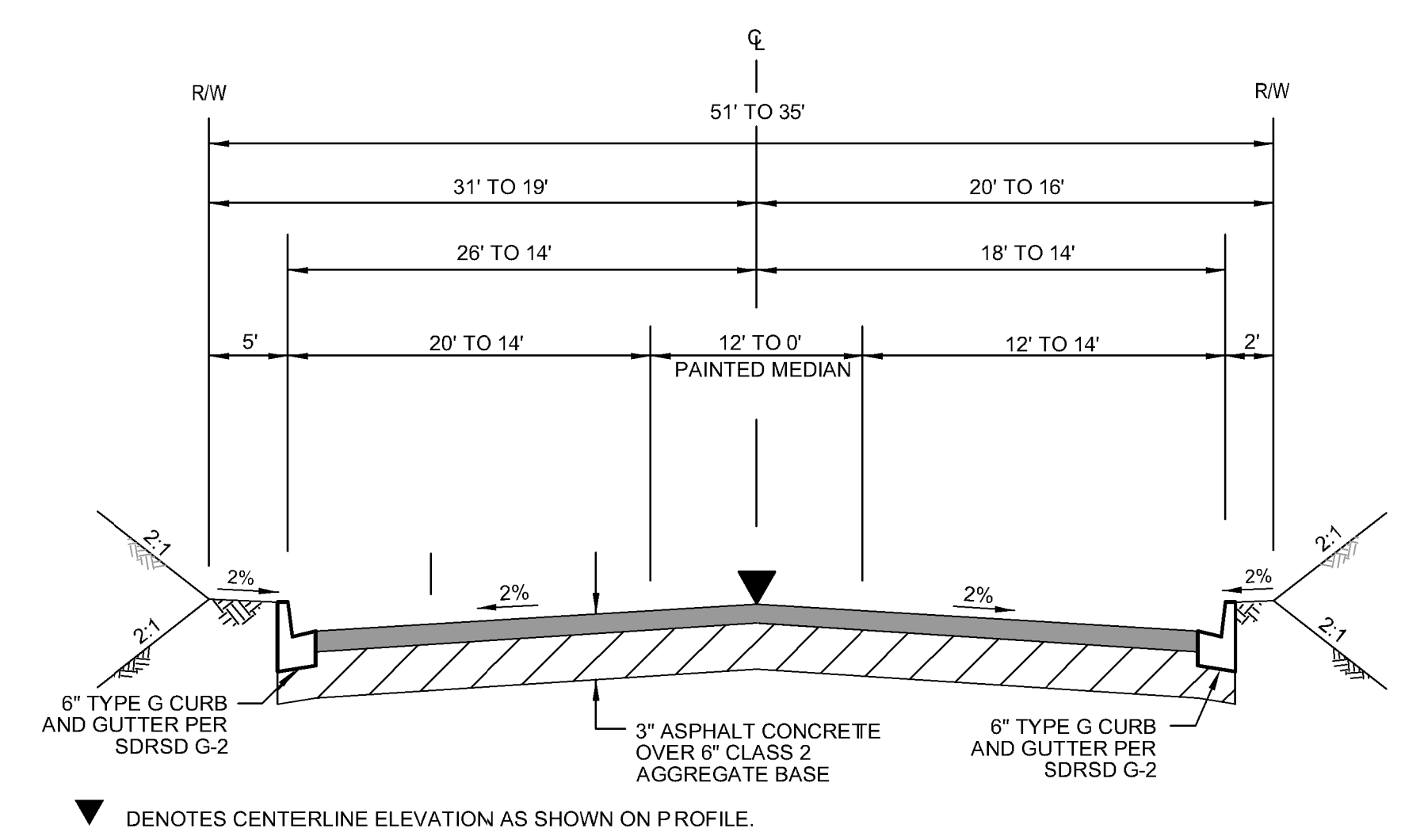
TYPICAL SECTION - CITRACADO PARKWAY  
STATION 63+57.16 TO STATION 64+48.13



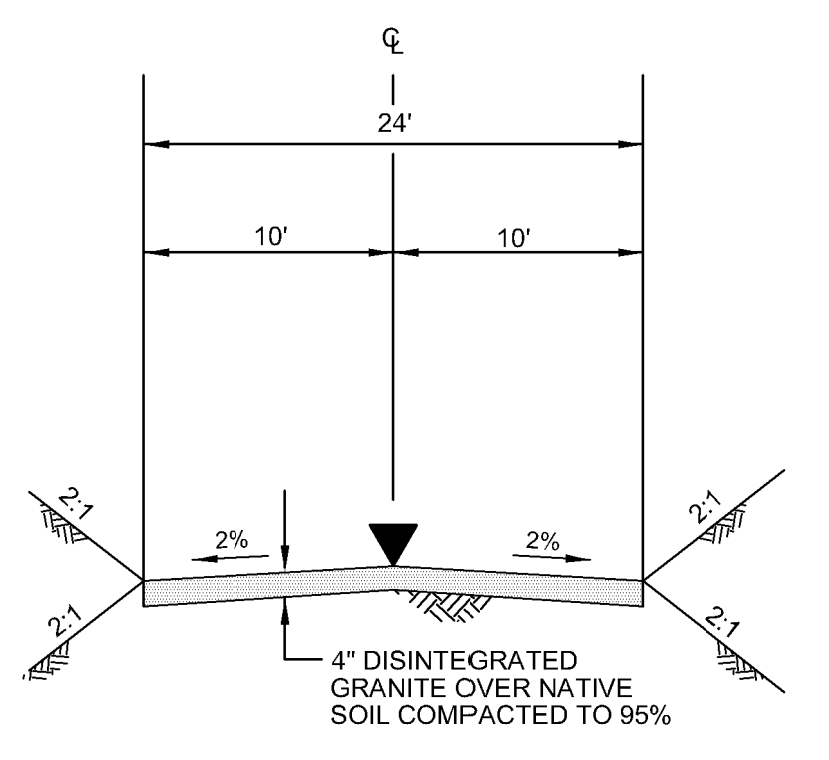
TYPICAL SECTION - HARMONY GROVE ROAD (WEST)



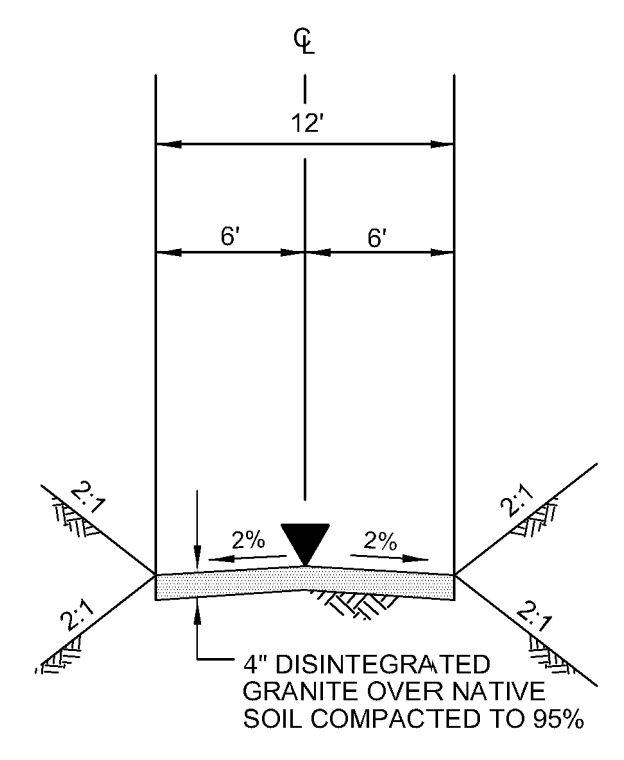
TYPICAL SECTION - HARMONY GROVE ROAD  
STATION 10+00 TO STATION 12+69.13



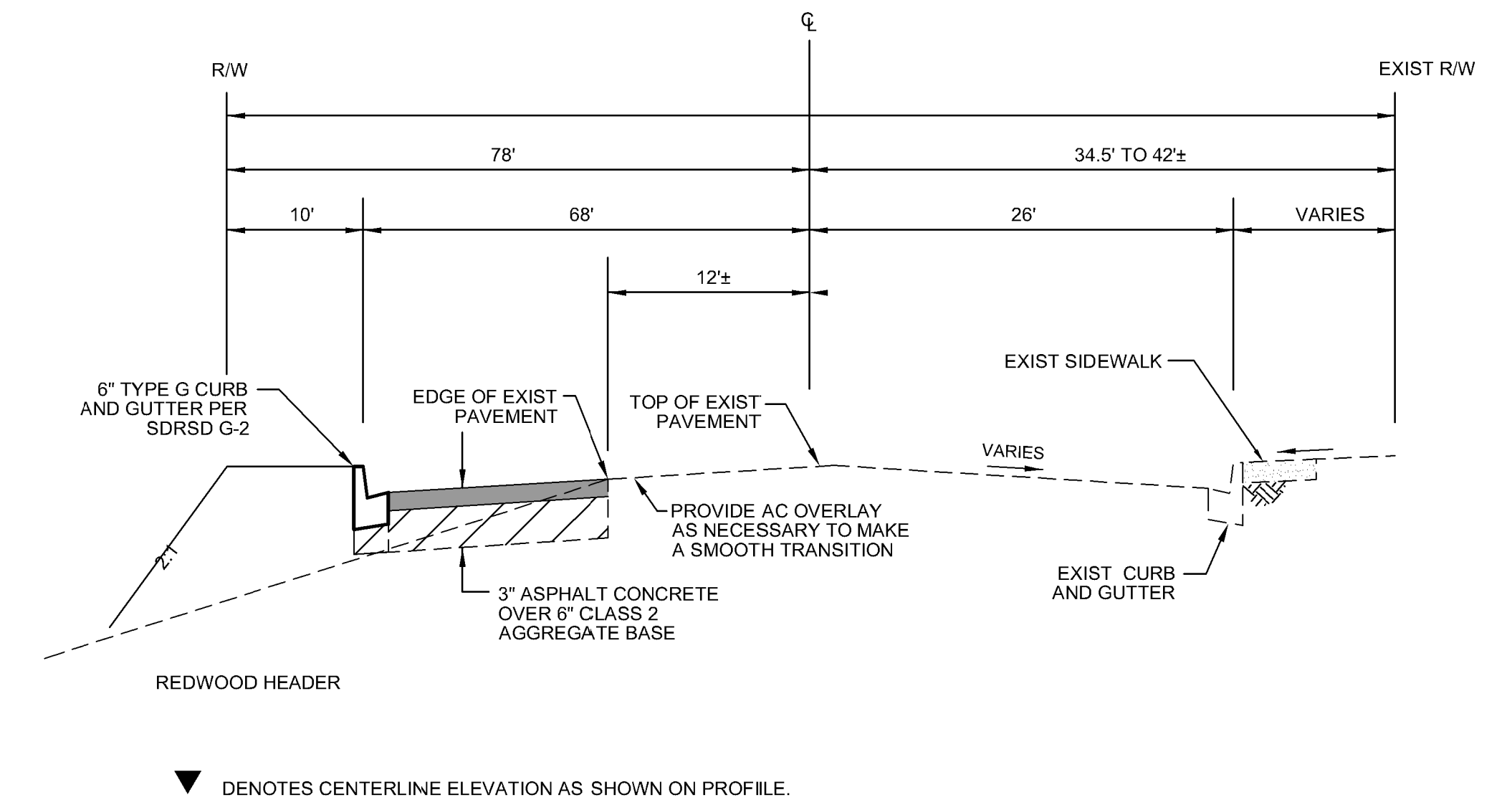
TYPICAL SECTION - KAUANA LOA DRIVE  
STATION 12+69.13 TO STATION 16+20.84



TYPICAL SECTION - HMP ACCESS ROAD AT  
NORTHWEST CORNER OF BRIDGE



TYPICAL SECTION - UTILITY ACCESS ROAD AT  
NORTHEAST CORNER OF BRIDGE



TYPICAL SECTION - HARMONY GROVE ROAD (EAST)  
(CUL-DE-SAC)

▼ DENOTES CENTERLINE ELEVATION AS SHOWN ON PROFILE.

▼ DENOTES CENTERLINE ELEVATION AS SHOWN ON PROFILE.

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| CONSTRUCTION RECORD |  | REFERENCES |  | REVISIONS |  | BENCH MARK |  | SCALE      | Office  | Designed By          | Drawn By | Checked By | Submitted | Approved | CITY OF ESCONDIDO<br>IMPROVEMENT PLANS FOR:<br>CITRACADO PARKWAY | DEPARTMENT OF PUBLIC WORKS | Drawing No. |
|---------------------|--|------------|--|-----------|--|------------|--|------------|---------|----------------------|----------|------------|-----------|----------|------------------------------------------------------------------|----------------------------|-------------|
| Contractor          |  |            |  |           |  |            |  | Horizontal | Filed   | KO                   | AJJUD    | JD         |           |          |                                                                  |                            |             |
| Inspector           |  |            |  |           |  |            |  | Vertical   | Traffic | JOHN C. DULLAGHAN IV |          |            |           |          |                                                                  |                            |             |
| Date Completed      |  |            |  |           |  |            |  | NONE       |         |                      |          |            |           |          |                                                                  |                            |             |

CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AG PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 642.965 DATUM: NGVD 29.

SCALE: Horizontal, Vertical, NONE  
Office: Traffic  
Designed By: JOHN C. DULLAGHAN IV  
Drawn By: AJJUD  
Checked By: JD  
Submitted: \_\_\_\_\_  
Approved: \_\_\_\_\_  
By: \_\_\_\_\_  
Date: \_\_\_\_\_  
R.C.E. No. 63567  
Assistant City Engineer  
Assistant Director of Public Works



CROSS SECTIONS

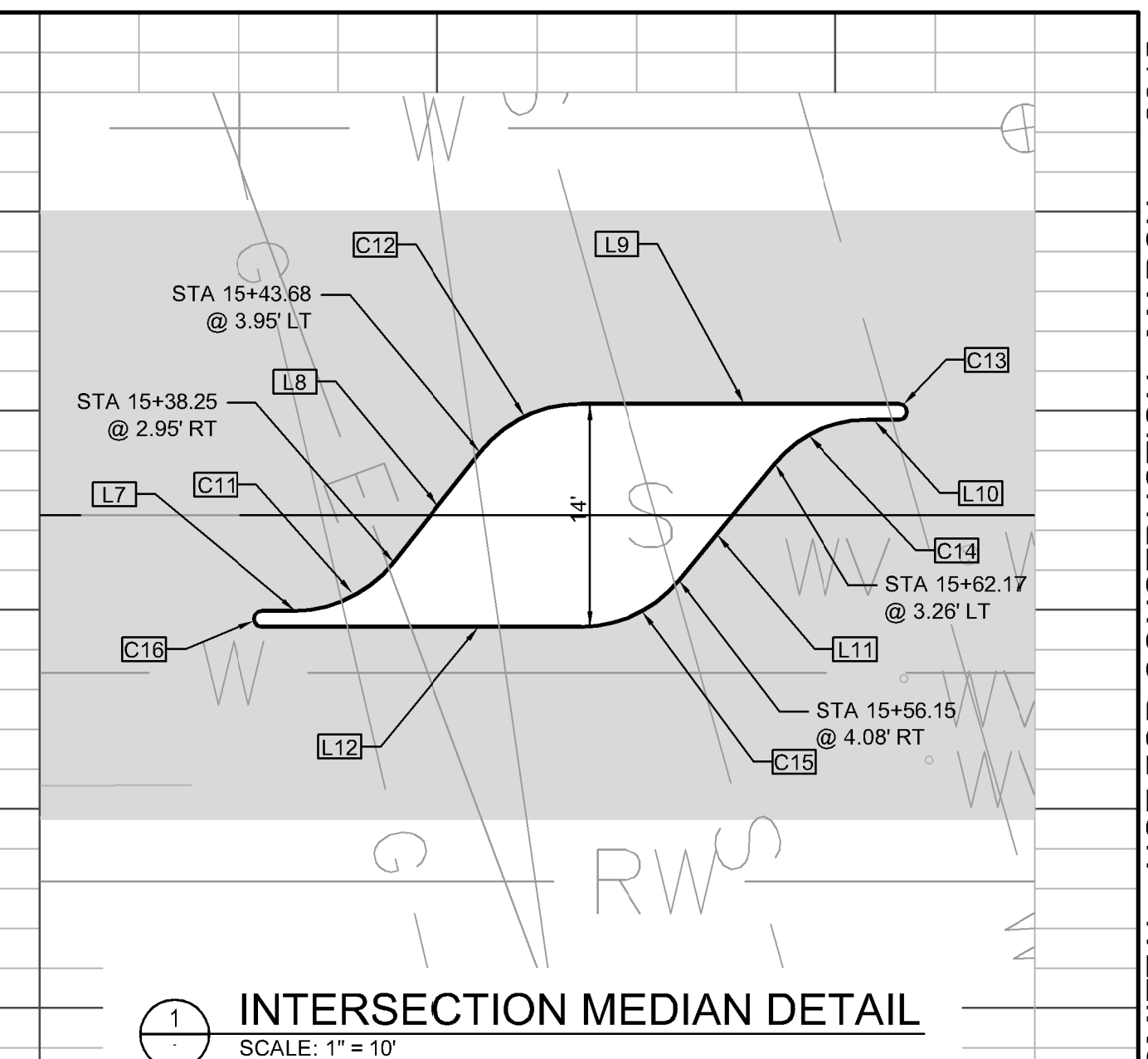
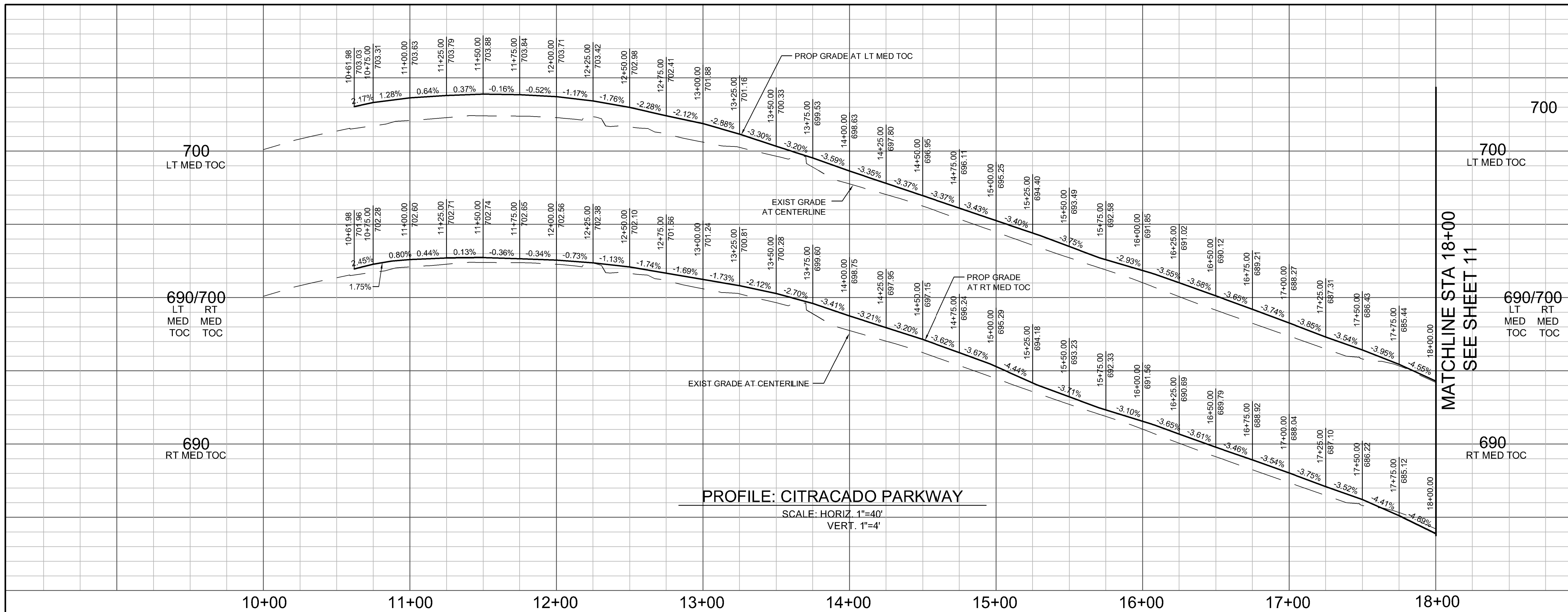
# NOT USED

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▼ DENOTES CENTERLINE ELEVATION AS SHOWN ON PROFILE.

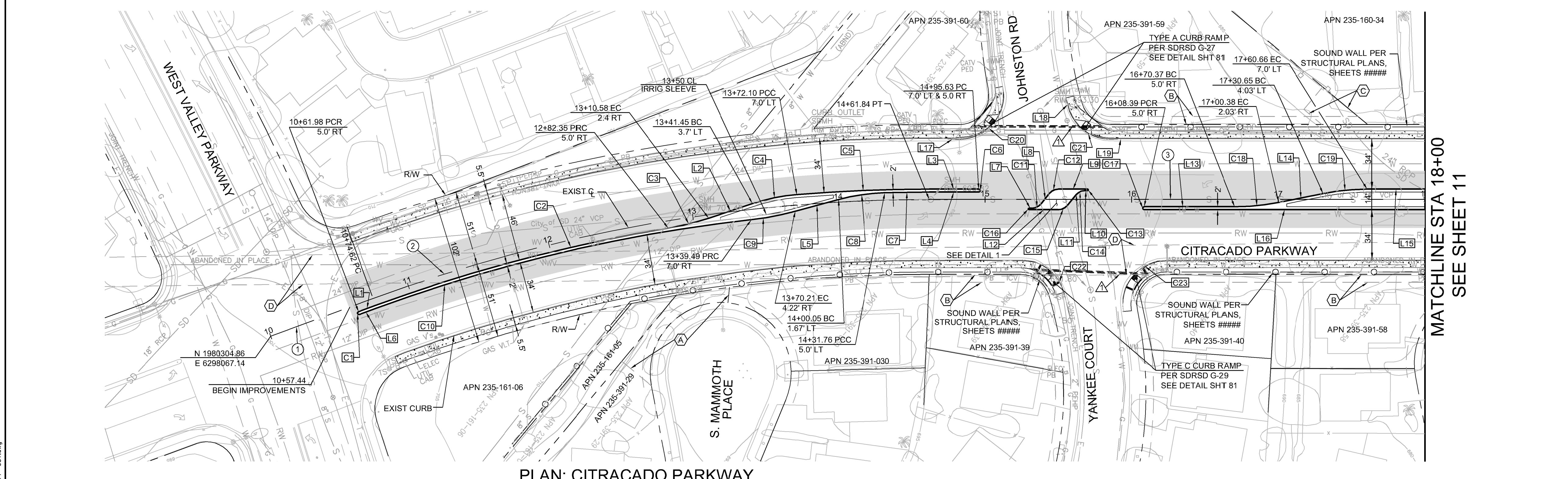


| CONSTRUCTION RECORD |  | REFERENCES |  | Date | By | REVISIONS |  | App'd | Date | BENCH MARK                                                                                                                                                                                           | SCALE                                  | Office | Designed By                         | Drawn By | Checked By       | Submitted               | Approved                           | CITY OF ESCONDIDO      | DEPARTMENT OF PUBLIC WORKS | Drawing No.    |  |
|---------------------|--|------------|--|------|----|-----------|--|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------|-------------------------------------|----------|------------------|-------------------------|------------------------------------|------------------------|----------------------------|----------------|--|
| Contractor          |  |            |  |      |    |           |  |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 642.965 DATUM: NGVD 29. | Horizontal<br>NONE<br>Vertical<br>NONE |        | KO                                  | AJJJD    | JD               |                         |                                    | IMPROVEMENT PLANS FOR: |                            |                |  |
| Inspector           |  |            |  |      |    |           |  |       |      |                                                                                                                                                                                                      |                                        |        | Plans Prepared Under Supervision Of |          |                  |                         |                                    | CITRACADO PARKWAY      | CROSS SECTIONS             |                |  |
| Date Completed      |  |            |  |      |    |           |  |       |      |                                                                                                                                                                                                      |                                        |        | JOHN C. DULLAGHAN IV                |          | R.C.E. No. 63567 | Assistant City Engineer | Assistant Director of Public Works |                        |                            | Sheet 9 of 184 |  |



**CURB DATA TABLE**

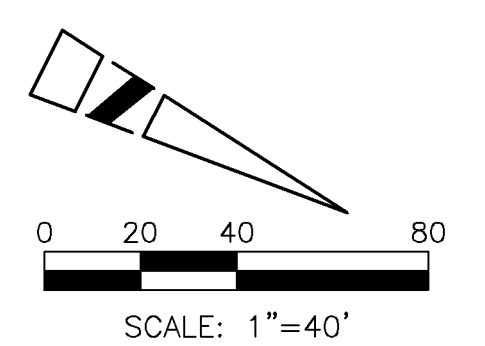
| NO. | DELTA/BEARING | RADIUS  | LENGTH                                      | COMMENTS                                    |
|-----|---------------|---------|---------------------------------------------|---------------------------------------------|
| C1  | 180°00'00"    | 1.00    | 3.14'                                       | TYPE B-1 CURB PER SDRSD G-6, (MOD. 8" HIGH) |
| C2  | 10°49'11"     | 1095.00 | 206.78'                                     | "                                           |
| C3  | 9°00'15"      | 180.00  | 28.29'                                      | "                                           |
| C4  | 13°40'45"     | 130.00  | 31.04'                                      | "                                           |
| C5  | 4°40'28"      | 1107.00 | 90.32'                                      | "                                           |
| C6  | 180°00'00"    | 1.00    | 3.14'                                       | "                                           |
| C7  | 1°34'00"      | 1105.00 | 30.22'                                      | "                                           |
| C8  | 13°38'18"     | 135.00  | 32.06'                                      | "                                           |
| C9  | 8°47'57"      | 200.00  | 30.71'                                      | "                                           |
| C10 | 13°47'48"     | 1093.00 | 263.19'                                     | "                                           |
| C11 | 51°47'45"     | 8.00    | 7.23'                                       | "                                           |
| C12 | 51°48'37"     | 8.00    | 7.23'                                       | "                                           |
| C13 | 180°00'00"    | 0.50    | 1.57'                                       | "                                           |
| C14 | 50°37'26"     | 7.50    | 6.63'                                       | "                                           |
| C15 | 50°37'26"     | 8.00    | 7.07'                                       | "                                           |
| C16 | 180°00'00"    | 0.50    | 1.57'                                       | "                                           |
| C17 | 180°00'00"    | 1.00    | 3.14'                                       | "                                           |
| C18 | 11°18'45"     | 153.00  | 30.21'                                      | "                                           |
| C19 | 11°18'45"     | 153.00  | 30.21'                                      | "                                           |
| C20 | 101°33'08"    | 30.00   | 53.17'                                      | CURB & GUTTER PER SDRSD G-2                 |
| C21 | 77°06'24"     | 30.00   | 40.37'                                      | "                                           |
| C22 | 70°52'14"     | 30.00   | 37.11'                                      | "                                           |
| C23 | 99°29'30"     | 30.00   | 52.09'                                      | "                                           |
| L1  | S58°22'00"E   | 12.64'  | TYPE B-1 CURB PER SDRSD G-6, (MOD. 8" HIGH) |                                             |
| L2  | S56°33'04"E   | 31.50'  | "                                           |                                             |
| L3  | N38°11'51"W   | 33.79'  | "                                           |                                             |
| L4  | S38°11'51"E   | 33.79'  | "                                           |                                             |
| L5  | S83°22'10"E   | 30.38'  | "                                           |                                             |
| L6  | N58°22'00"W   | 12.64'  | "                                           |                                             |
| L7  | N38°11'51"W   | 2.00'   | "                                           |                                             |
| L8  | N89°59'36"W   | 8.77'   | "                                           |                                             |
| L9  | N38°11'51"W   | 20.00'  | "                                           |                                             |
| L10 | S38°11'51"E   | 2.00'   | "                                           |                                             |
| L11 | S88°49'18"E   | 9.49'   | "                                           |                                             |
| L12 | S38°11'51"E   | 20.00'  | "                                           |                                             |
| L13 | S38°11'51"E   | 61.98'  | "                                           |                                             |
| L14 | S49°30'36"E   | 30.87'  | "                                           |                                             |
| L15 | N38°11'51"W   | 39.34'  | "                                           |                                             |
| L16 | N38°11'51"W   | 191.61' | "                                           |                                             |
| L17 | S36°27'55"E   | 10.80'  | CURB & GUTTER PER SDRSD G-2                 |                                             |
| L18 | S40°28'13"W   | 5.00'   | "                                           |                                             |
| L19 | N39°14'50"W   | 10.00'  | "                                           |                                             |

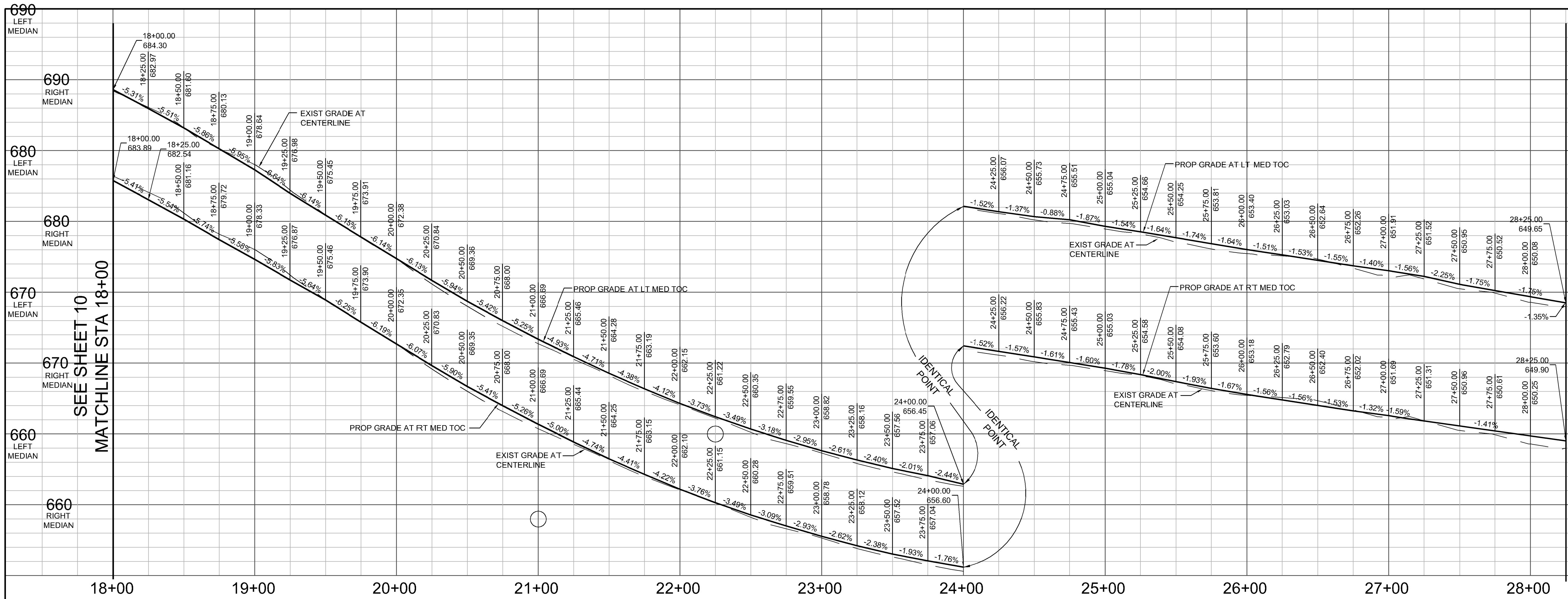


**CENTERLINE DATA**

| NO. | BEARING/DELTA | RADIUS | LENGTH  | REMARKS           |
|-----|---------------|--------|---------|-------------------|
| 1   | N 58°22'00" W | -      | 74.62'  | CITRACADO PARKWAY |
| 2   | 20°10'09" E   | 1100'  | 387.22' | CITRACADO PARKWAY |
| 3   | N 38°11'51" W | -      | 338.16' | CITRACADO PARKWAY |

- EXISTING EASEMENT NOTES:**
- A I.O.D. AND PRIVATE INGRESS/EGRESS EASEMENT RESERVED PER MAP 11337
  - B 5.5' TREE MAINTENANCE EASEMENT
  - C DRAINAGE EASEMENT PER MAP 11337
  - D 20' EASEMENT TO RINCON DEL DIABLO MWD PER MAP 11337, MAP 12854 AND PTR.
- CONSTRUCTION NOTES:**
- INSTALL 1.4" AND 1.6" PVC SLEEVE FOR IRRIGATION SYSTEM. ALL CURBS SHALL BE MARKED WITH A "SCORE MARK" TO DESIGNATE SLEEVE LOCATION, TYPICAL.





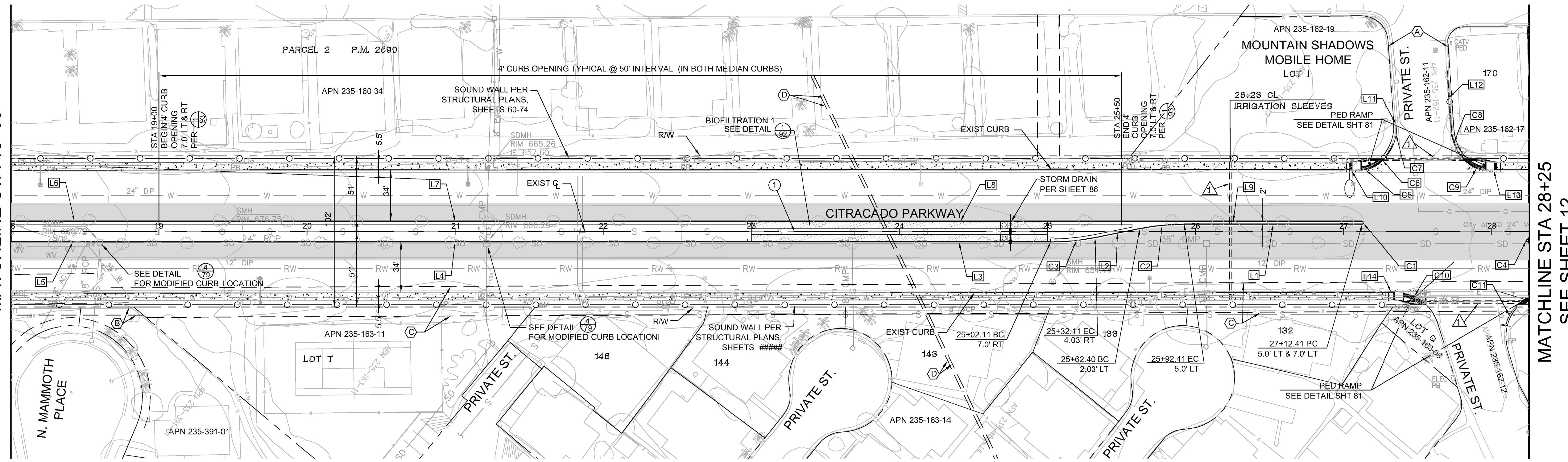
PROFILE: CITRACADO PARKWAY  
SCALE: HORIZ. 1"=40'  
VERT. 1"=4'

660 LEFT MEDIAN  
690 RIGHT MEDIAN  
680 LEFT MEDIAN  
680 RIGHT MEDIAN  
670 LEFT MEDIAN  
670 RIGHT MEDIAN  
660 LEFT MEDIAN  
660 RIGHT MEDIAN

| CURB DATA TABLE |               |        |                                                      |                                            |
|-----------------|---------------|--------|------------------------------------------------------|--------------------------------------------|
| NO.             | DELTA/BEARING | RADIUS | LENGTH                                               | COMMENTS **                                |
| C1              | 180°00'00"    | 1.00   | 3.14'                                                | CURB & GUTTER PER SDRSD G-2 (MOD. 8" HIGH) |
| C2              | 11°18'36"     | 153.00 | 30.20'                                               | "                                          |
| C3              | 11°18'36"     | 153.00 | 30.20'                                               | "                                          |
| C4              | 180°00'00"    | 1.00   | 3.14'                                                | "                                          |
| C5              | 38°12'55"     | 20.00  | 13.34'                                               | CURB & GUTTER PER SDRSD G-2                |
| C6              | 36°20'09"     | 32.10  | 20.36'                                               | "                                          |
| C7              | 19°54'30"     | 20.00  | 6.95'                                                | "                                          |
| C8              | 50°41'04"     | 32.10  | 28.40'                                               | "                                          |
| C9              | 35°21'19"     | 18.00  | 11.11'                                               | "                                          |
| C10             | 52°13'03"     | 30.00  | 27.34'                                               | "                                          |
| C11             | 73°38'09"     | 30.00  | 38.56'                                               | "                                          |
| L1              | S38°11'51"E   | 120.00 | CURB & GUTTER PER SDRSD G-2 (MOD. 8" HIGH)           |                                            |
| L2              | S49°30'27"E   | 30.89  | "                                                    |                                            |
| L3              | N38°11'51"W   | 202.11 | CURB & GUTTER PER SDRSD G-2 (MOD. SEE DET 2 SHT. 70) |                                            |
| L4              | N38°11'51"W   | 400.00 | CURB & GUTTER PER SDRSD G-2 (MOD. 8" HIGH)           |                                            |
| L5              | N38°11'51"W   | 100.00 | "                                                    |                                            |
| L6              | N38°11'51"W   | 100.00 | "                                                    |                                            |
| L8              | N38°11'51"W   | 202.11 | CURB & GUTTER PER SDRSD G-2 (MOD. SEE DET 2 SHT. 70) |                                            |
| L9              | N38°11'51"W   | 210.30 | CURB & GUTTER PER SDRSD G-2 (MOD. 8" HIGH)           |                                            |
| L10             | N38°49'35"W   | 10.00  | CURB & GUTTER PER SDRSD G-2                          |                                            |
| L11             | S46°42'52"W   | 5.08   | "                                                    |                                            |
| L12             | N47°51'35"E   | 39.89  | "                                                    |                                            |
| L13             | N38°11'03"W   | 10.00  | "                                                    |                                            |
| L14             | N38°07'50"W   | 4.00   | "                                                    |                                            |

\*\* SEE MODIFIED CURB AND GUTTER PER 2/79 FROM STATIONS 23+00 TO 25+00, LEFT AND RIGHT MEDIAN CURBS.

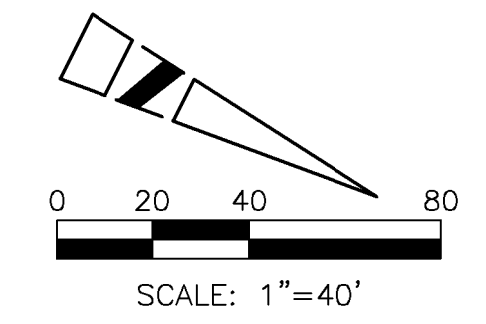
| CENTERLINE DATA |               |        |         |                   |
|-----------------|---------------|--------|---------|-------------------|
| NO.             | BEARING/DELTA | RADIUS | LENGTH  | REMARKS           |
| 1               | N 38°11'51" W | -      | 1025.0' | CITRACADO PARKWAY |



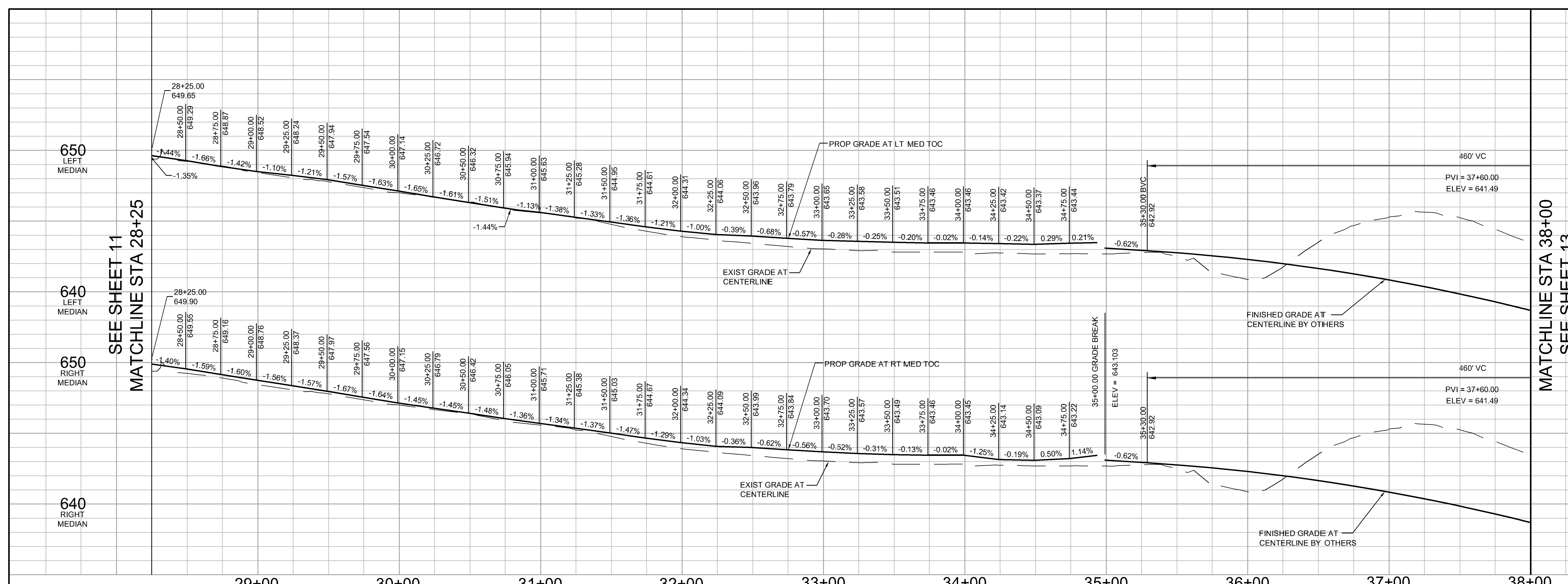
PLAN: CITRACADO PARKWAY

- EXISTING EASEMENT NOTES:**
- (A) RECIPROCAL ACCESS EASEMENT PER DOC. NO. 1991-0449965 O.R. REC. 9-03-91
  - (B) 5.5' TREE MAINTENANCE EASEMENT
  - (C) 20' EASEMENT TO RINCON DEL DIABLO MWD PER MAP 11337, MAO 12854 AND PTR.
  - (D) 2' POLE LINE EASEMENT TO SDG&E PER BK 1811 PAGE 76 RECORDED 8-11-30

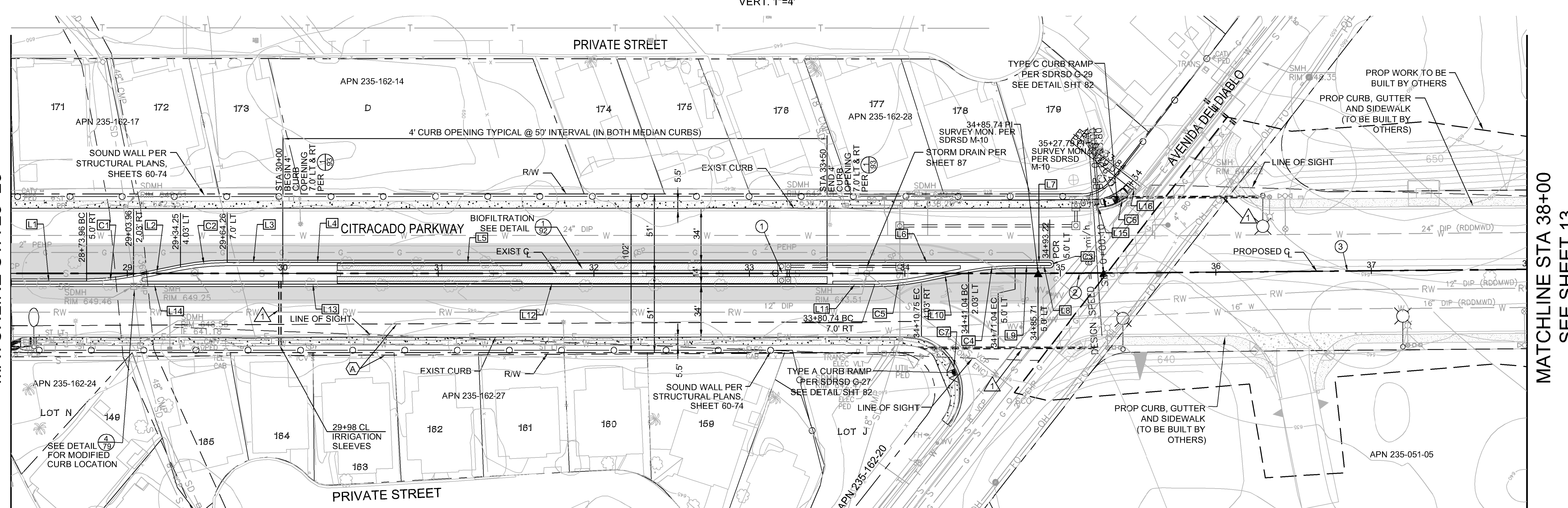
- CONSTRUCTION NOTES:**
- (A) INSTALL 1-4" AND 1-6" PVC SLEEVE FOR IRRIGATION SYSTEM. ALL CURBS SHALL BE MARKED WITH A "SCORE MARK" TO DESIGNATE SLEEVE LOCATION, TYPICAL.



| CONSTRUCTION RECORD |  | REFERENCES | Date | By | REVISIONS | App'd | Date | BENCH MARK                                                                                                                                                                                               | SCALE                           | Office  | Designed By          | Drawn By | Checked By | Submitted | Approved | CITY OF ESCONDIDO                           | DEPARTMENT OF PUBLIC WORKS               | Drawing No.     |
|---------------------|--|------------|------|----|-----------|-------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------|----------------------|----------|------------|-----------|----------|---------------------------------------------|------------------------------------------|-----------------|
| Contractor          |  |            |      |    |           |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236 A 2.5" BRASS DISC STAMPED EGCS 1992-2045 IN AG PAVEMENT LOCATED AT THE INTERSECTION OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO ELEV. 642.965 DATUM: NGVD 29. | Horizontal<br>Vertical<br>1"=4' | Traffic | JOHN C. DULLAGHAN IV | AJ       | JD         |           |          | IMPROVEMENT PLANS FOR:<br>CITRACADO PARKWAY | PLAN & PROFILE<br>STA 18+00 TO STA 28+25 | Sheet 11 of 184 |

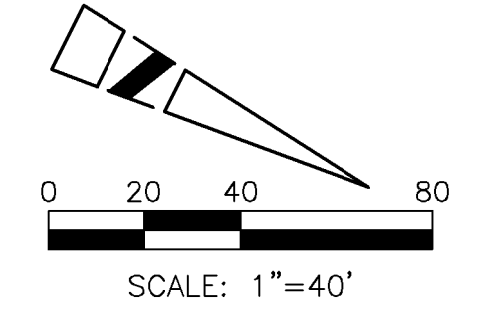


| CURB DATA TABLE |               |        |         |                                                       |
|-----------------|---------------|--------|---------|-------------------------------------------------------|
| NO.             | DELTA/BEARING | RADIUS | LENGTH  | COMMENTS **                                           |
| C1              | 11°18'36"     | 153.00 | 30.20'  | CURB & GUTTER PER SDRSD G-2, (MOD. 8" HIGH)           |
| C2              | 11°18'36"     | 153.00 | 30.20'  | "                                                     |
| C3              | 180°00'00"    | 1.00   | 3.14'   | MEDIAN CURB PER SDRSD G-6, (MOD. 8" HIGH)             |
| C4              | 11°18'36"     | 153.00 | 30.20'  | "                                                     |
| C5              | 11°18'36"     | 153.00 | 30.20'  | "                                                     |
| C6              | 48°10'55"     | 30.00  | 25.23'  | CURB & GUTTER PER SDRSD G-2                           |
| C7              | 126°38'51"    | 35.00  | 77.36'  | "                                                     |
| L1              | N38°11'51"W   |        | 48.96'  | CURB & GUTTER PER SDRSD G-2, (MOD. 8" HIGH)           |
| L2              | S49°30'27"E   |        | 30.89'  | "                                                     |
| L3              | S38°11'51"E   |        | 35.74'  | "                                                     |
| L4              | S38°11'51"E   |        | 35.00'  | "                                                     |
| L5              | S38°11'51"E   |        | 315.00' | CURB & GUTTER PER SDRSD G-2 (MOD SEE DETAIL 2 SHT 70) |
| L6              | S38°11'51"E   |        | 135.71' | MEDIAN CURB PER SDRSD G-6, (MOD. 8" HIGH)             |
| L7              | N38°25'31"W   |        | 7.51'   | "                                                     |
| L8              | N38°25'31"W   |        | 7.50'   | "                                                     |
| L9              | N38°11'51"W   |        | 14.68'  | "                                                     |
| L10             | S49°30'27"E   |        | 30.89'  | "                                                     |
| L11             | N38°11'51"W   |        | 30.74'  | "                                                     |
| L12             | S38°11'51"E   |        | 315.00' | CURB & GUTTER PER SDRSD G-2 (MOD SEE DETAIL 2 SHT 70) |
| L13             | N38°11'51"W   |        | 35.00'  | MEDIAN CURB PER SDRSD G-6, (MOD. 8" HIGH)             |
| L14             | N38°11'51"W   |        | 175.00' | "                                                     |
| L15             | N42°02'12"W   |        | 1.70'   | CURB & GUTTER PER SDRSD G-2                           |
| L16             | S89°38'18"W   |        | 1.70'   | "                                                     |



\*\*SEE MODIFIED CURB AND GUTTER PER (70) FROM STATIONS 31+50 TO 33+50, LEFT AND RIGHT MEDIAN CURBS.

| CENTERLINE DATA |               |        |         |                   |
|-----------------|---------------|--------|---------|-------------------|
| NO.             | BEARING/DELTA | RADIUS | LENGTH  | REMARKS           |
| ①               | N 38°11'51" W | -      | 660.74' | CITRACADO PARKWAY |
| ②               | N 38°25'31" W | -      | 42.05'  | CITRACADO PARKWAY |
| ③               | N 38°41'51" W | -      | 272.21' | CITRACADO PARKWAY |



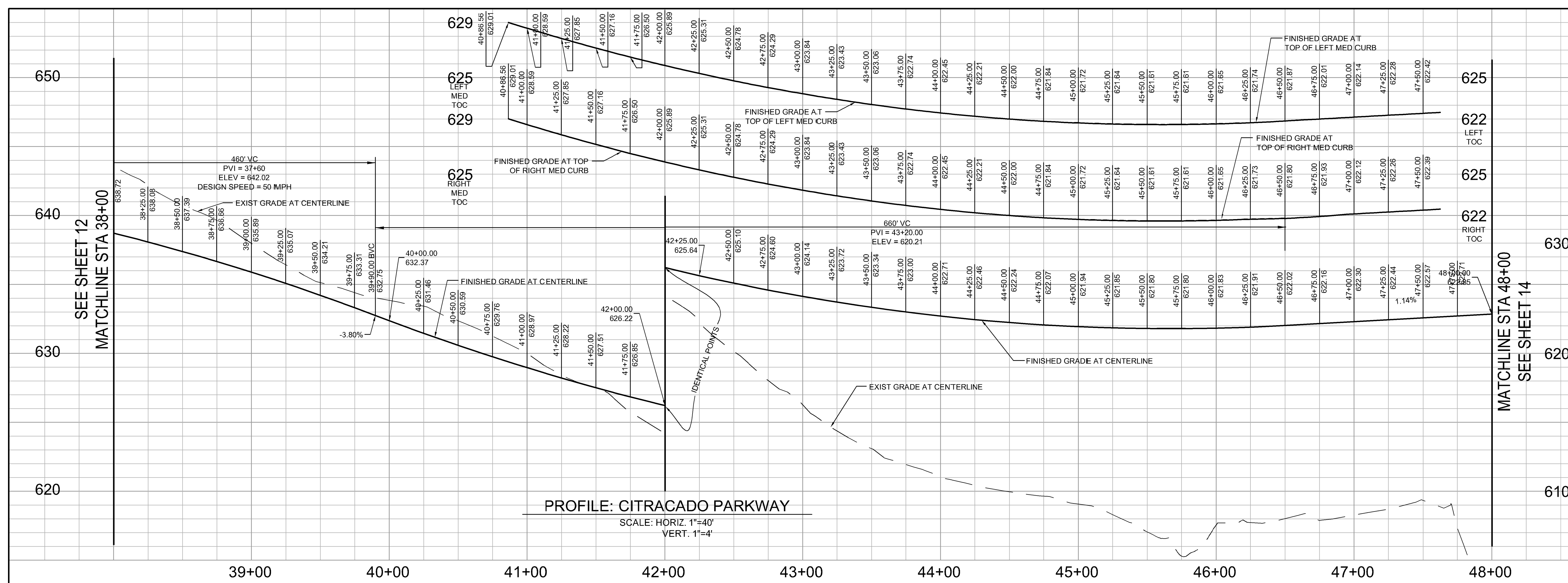
**EXISTING EASEMENT NOTES:**

20' EASEMENT TO RINCON DEL DIABLO MWD PER MAP 11337, MAO 12854 AND PTR.

**CONSTRUCTION NOTES:**

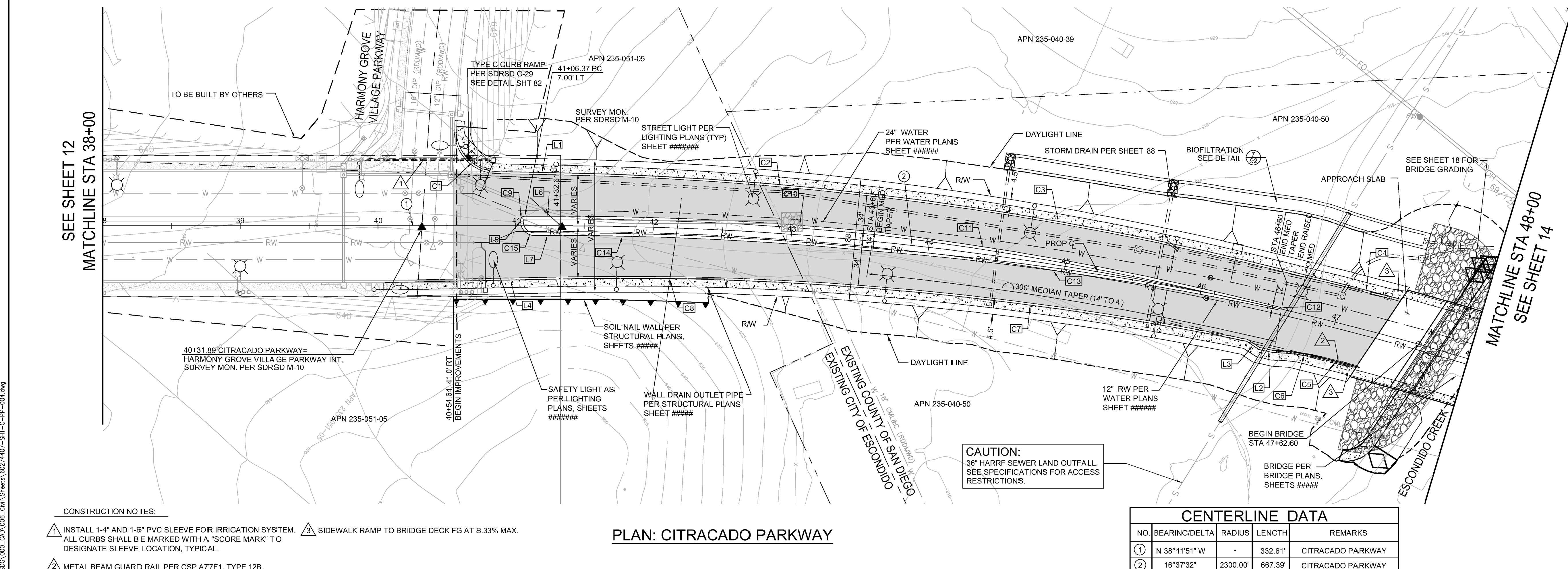
INSTALL 1-4" AND 1-6" PVC SLEEVE FOR IRRIGATION SYSTEM. ALL CURBS SHALL BE MARKED WITH A "SCORE MARK" TO DESIGNATE SLEEVE LOCATION, TYPICAL.

| CONSTRUCTION RECORD |           | REFERENCES     | Date | By | REVISIONS | App'd | Date | BENCH MARK                                                                                                                                                                                                   | SCALE                                     | Office | Designed By          | Drawn By | Checked By | Submitted | Approved | CITY OF ESCONDIDO<br>IMPROVEMENT PLANS FOR:<br>CITRACADO PARKWAY | DEPARTMENT OF PUBLIC WORKS<br>PLAN & PROFILE<br>STA 28+25 TO STA 38+00 | Drawing No.<br>Sheet 12 of 184 |
|---------------------|-----------|----------------|------|----|-----------|-------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------|----------------------|----------|------------|-----------|----------|------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------|
| Contractor          | Inspector | Date Completed |      |    |           |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236, A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AG PAVEMENT LOCATED AT THE INTERSECTION OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 642.965 DATUM: NGVD 29. | Horizontal<br>1"=40'<br>Vertical<br>1"=4' | Filmed | JOHN C. DULLAGHAN IV | AJ       | JD         |           |          |                                                                  |                                                                        |                                |



PROFILE: CITRACADO PARKWAY  
SCALE: HORIZ. 1"=40'  
VERT. 1"=4'

| CURB DATA TABLE |               |         |         |                                        |
|-----------------|---------------|---------|---------|----------------------------------------|
| NO.             | DELTA/BEARING | RADIUS  | LENGTH  | COMMENTS                               |
| C1              | 92°49'25"     | 30.00   | 48.60'  | CURB & GUTTER PER SDRSD G-2            |
| C2              | 5°32'32"      | 2335.70 | 225.94' | "                                      |
| C3              | 7°28'32"      | 2330.73 | 304.10' | "                                      |
| C4              | 2°02'38"      | 2328.00 | 83.05'  | "                                      |
| C5              | 0°36'07"      | 2271.83 | 23.87'  | "                                      |
| C6              | 13°31'29"     | 160.00  | 37.77'  | "                                      |
| C7              | 7°00'54"      | 2268.53 | 277.74' | "                                      |
| C8              | 5°45'39"      | 2217.35 | 222.95' | "                                      |
| C9              | 89°59'04"     | 3.00    | 4.71'   | CURB & GUTTER PER SDRSD G-6 (MOD H=8") |
| C10             | 5°39'53"      | 2307.00 | 228.09' | "                                      |
| C11             | 7°27'05"      | 2303.54 | 299.58' | "                                      |
| C12             | 180°00'00"    | 1.02    | 3.20'   | "                                      |
| C13             | 7°27'37"      | 2299.84 | 299.46' | "                                      |
| C14             | 5°38'30"      | 2293.00 | 225.78' | "                                      |
| C15             | 90°00'56"     | 10.00   | 15.71'  | "                                      |
| L1              | N37°33'06"W   |         | 46.47'  | CURB & GUTTER PER SDRSD G-2            |
| L3              | N5°10'41"W    |         | 10.68'  | "                                      |
| L4              | N39°49'06"W   |         | 127.63' | "                                      |
| L5              | S51°19'05"W   |         | 1.00'   | CURB & GUTTER PER SDRSD G-6 (MOD H=8") |
| L6              | N38°41'51"W   |         | 26.24'  | "                                      |
| L7              | S38°41'51"E   |         | 19.24'  | "                                      |

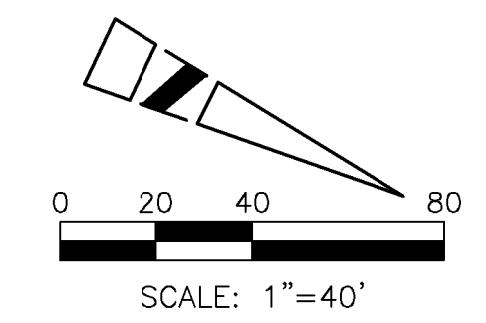


PLAN: CITRACADO PARKWAY

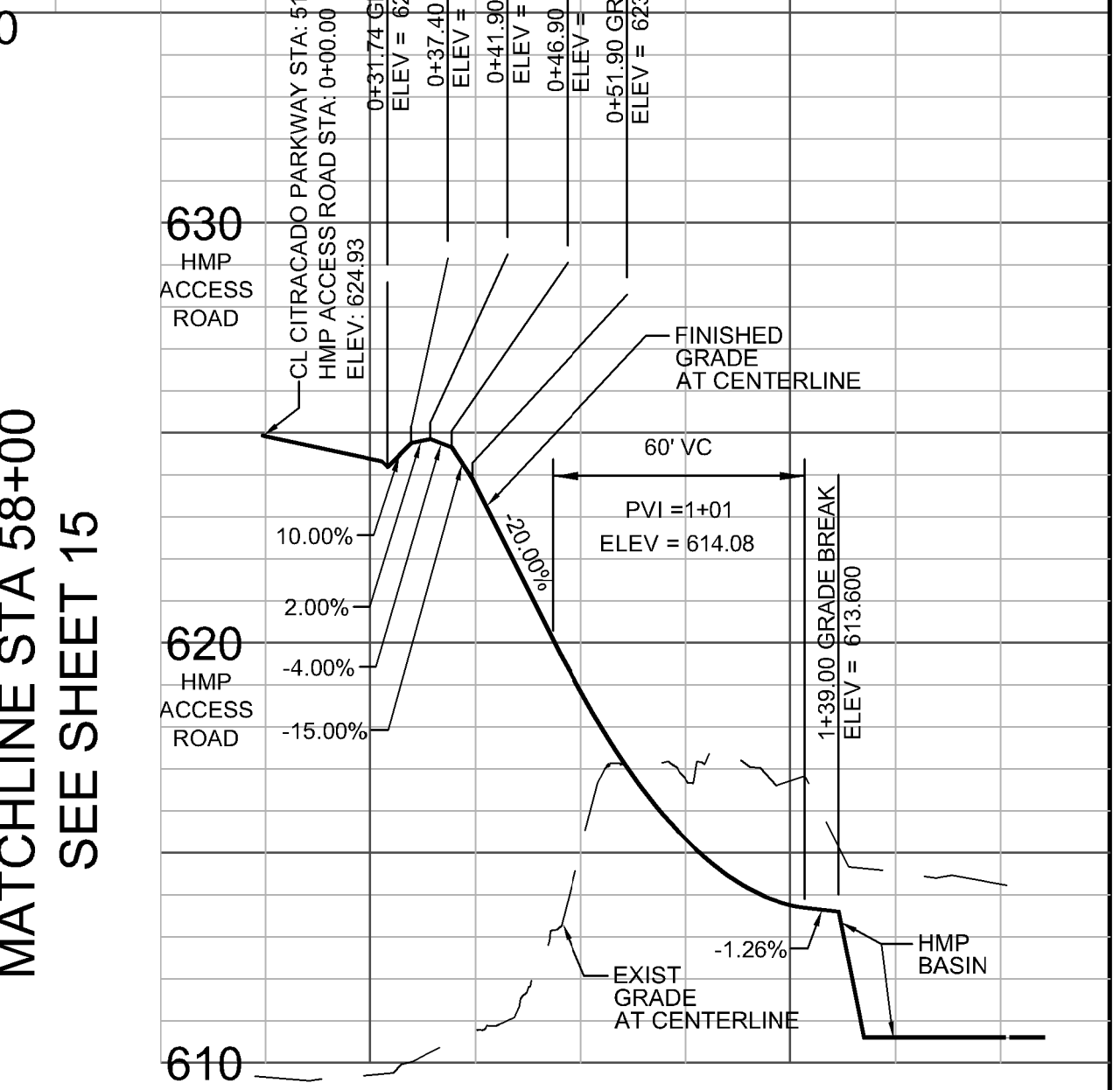
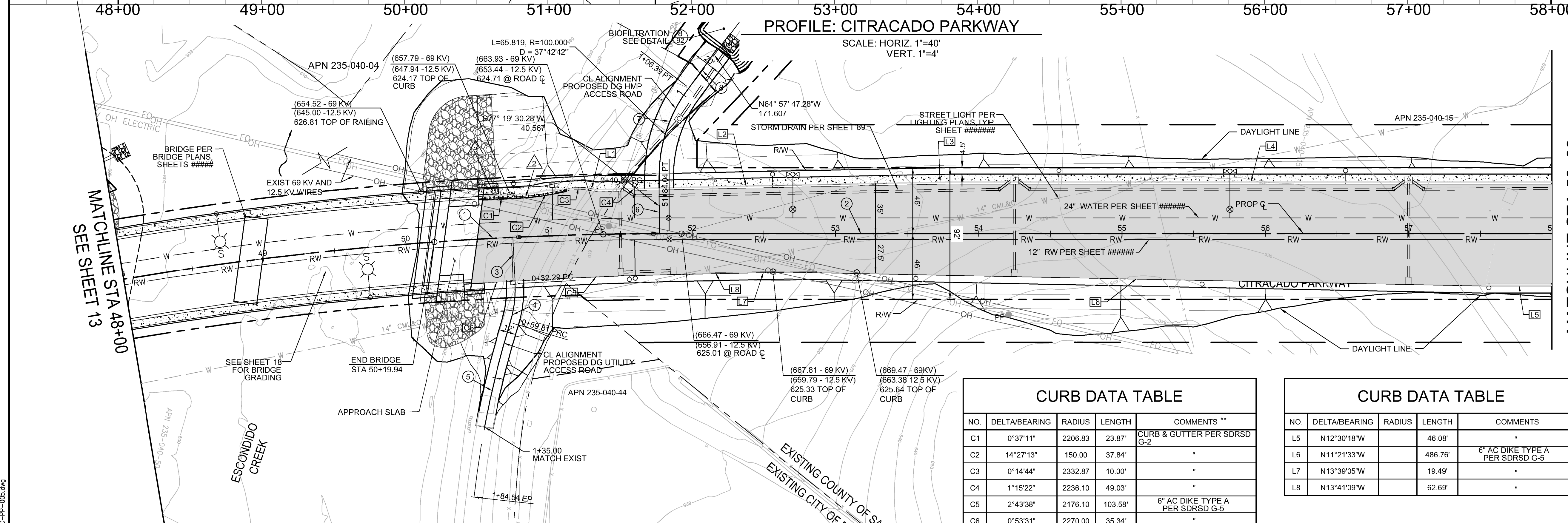
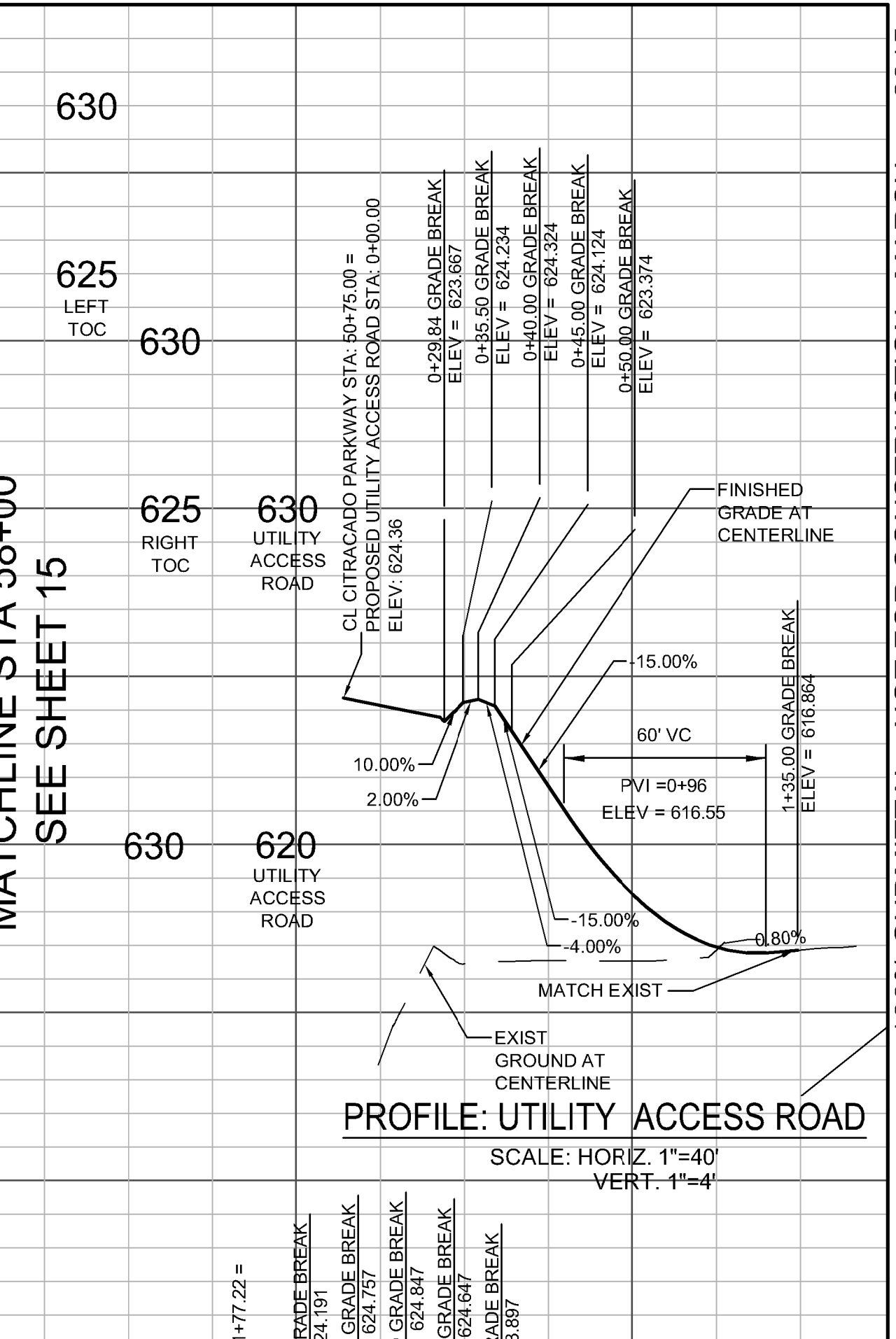
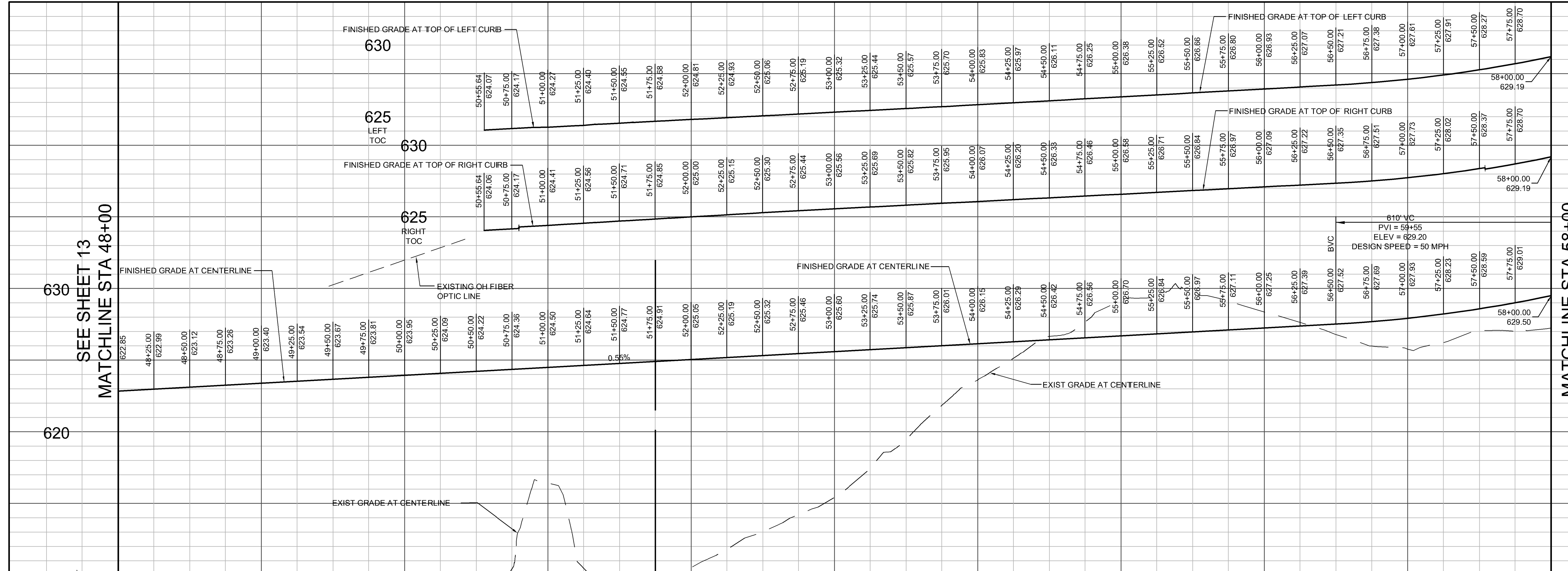
- CONSTRUCTION NOTES:
- 1. INSTALL 1-4" AND 1-6" PVC SLEEVE FOR IRRIGATION SYSTEM. 2. SIDEWALK RAMP TO BRIDGE DECK FG AT 8.33% MAX. ALL CURBS SHALL BE MARKED WITH A "SCORE MARK" TO DESIGNATE SLEEVE LOCATION, TYPICAL.
  - 3. METAL BEAM GUARD RAIL PER CSP A77F1, TYPE 12B.

| CENTERLINE DATA |               |          |         |                   |
|-----------------|---------------|----------|---------|-------------------|
| NO.             | BEARING/DELTA | RADIUS   | LENGTH  | REMARKS           |
| 1               | N 38°41'51" W | -        | 332.61' | CITRACADO PARKWAY |
| 2               | 16°37'32"     | 2300.00' | 667.39' | CITRACADO PARKWAY |

APPROVED: COUNTY OF SAN DIEGO  
APPROVED BY: TITLE DATE



| CONTRACTOR | INSPECTOR | DATE COMPLETED | REFERENCES | DATE | BY | REVISIONS | APP'D | DATE | BENCH MARK                                                                                                                                                                                                | SCALE                               | OFFICE  | DESIGNED BY          | DRAWN BY | CHECKED BY | SUBMITTED | APPROVED | CITY OF ESCONDIDO                       | DEPARTMENT OF PUBLIC WORKS            | DRAWING NO.     |
|------------|-----------|----------------|------------|------|----|-----------|-------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------|----------------------|----------|------------|-----------|----------|-----------------------------------------|---------------------------------------|-----------------|
|            |           |                |            |      |    |           |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236 A 2.5" BRASS DISC STAMPED EGCS 1992-2045 IN AG PLACEMENT LOCATED AT THE INTERSECTION OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO ELEV. 642.965 DATUM: NGVD 29. | Horizontal 1"=40'<br>Vertical 1"=4' | Traffic | JOHN C. DULLAGHAN IV | AJJJD    | JD         |           |          | IMPROVEMENT PLANS FOR CITRACADO PARKWAY | PLAN & PROFILE STA 38+00 TO STA 48+00 | Sheet 13 of 184 |



| NO. | BEARING/DELTA | RADIUS  | LENGTH  | REMARKS             |
|-----|---------------|---------|---------|---------------------|
| 3   | N 74°46'37" E | -       | 32.29'  | UTILITY ACCESS ROAD |
| 4   | 19°42'49"     | 80.00'  | 27.53'  | "                   |
| 5   | 10°35'13"     | 675.00' | 124.73' | "                   |
| 6   | N 77°19'30" E | -       | 40.57'  | HMP ACCESS ROAD     |
| 7   | 37°42'42"     | 100.00' | 65.82'  | "                   |
| 8   | N 64°57'47" E | -       | 171.61' | "                   |

| NO. | BEARING/DELTA | RADIUS   | LENGTH  | REMARKS           |
|-----|---------------|----------|---------|-------------------|
| 1   | 9°34'01"      | 2300.00' | 384.04' | CITRACADO PARKWAY |
| 2   | N 12°30'18" W | -        | 615.96' | CITRACADO PARKWAY |

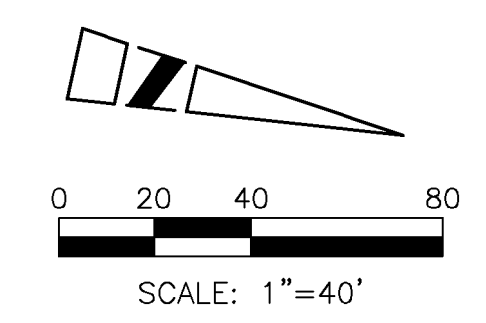
| NO. | DELTA/BEARING | RADIUS  | LENGTH  | COMMENTS **                     |
|-----|---------------|---------|---------|---------------------------------|
| C1  | 0°37'11"      | 2206.83 | 23.87'  | CURB & GUTTER PER SDRSD G-2     |
| C2  | 14°27'13"     | 150.00  | 37.84'  | "                               |
| C3  | 0°14'44"      | 2332.87 | 10.00'  | "                               |
| C4  | 1°15'22"      | 2236.10 | 49.03'  | "                               |
| C5  | 2°43'38"      | 2176.10 | 103.58' | 6" AC DIKE TYPE A PER SDRSD G-5 |
| C6  | 0°53'31"      | 2270.00 | 35.34'  | "                               |
| L1  | N3°56'01" W   | -       | 10.20'  | CURB & GUTTER PER SDRSD G-2     |
| L2  | N13°41'09" W  | -       | 62.62'  | "                               |
| L3  | N13°39'05" W  | -       | 133.41' | "                               |
| L4  | N12°30'18" W  | -       | 420.08' | "                               |

| NO. | DELTA/BEARING | RADIUS | LENGTH  | COMMENTS                        |
|-----|---------------|--------|---------|---------------------------------|
| L5  | N12°30'18" W  | -      | 46.08'  | "                               |
| L6  | N11°21'33" W  | -      | 486.76' | 6" AC DIKE TYPE A PER SDRSD G-5 |
| L7  | N13°39'05" W  | -      | 19.49'  | "                               |
| L8  | N13°41'09" W  | -      | 62.69'  | "                               |

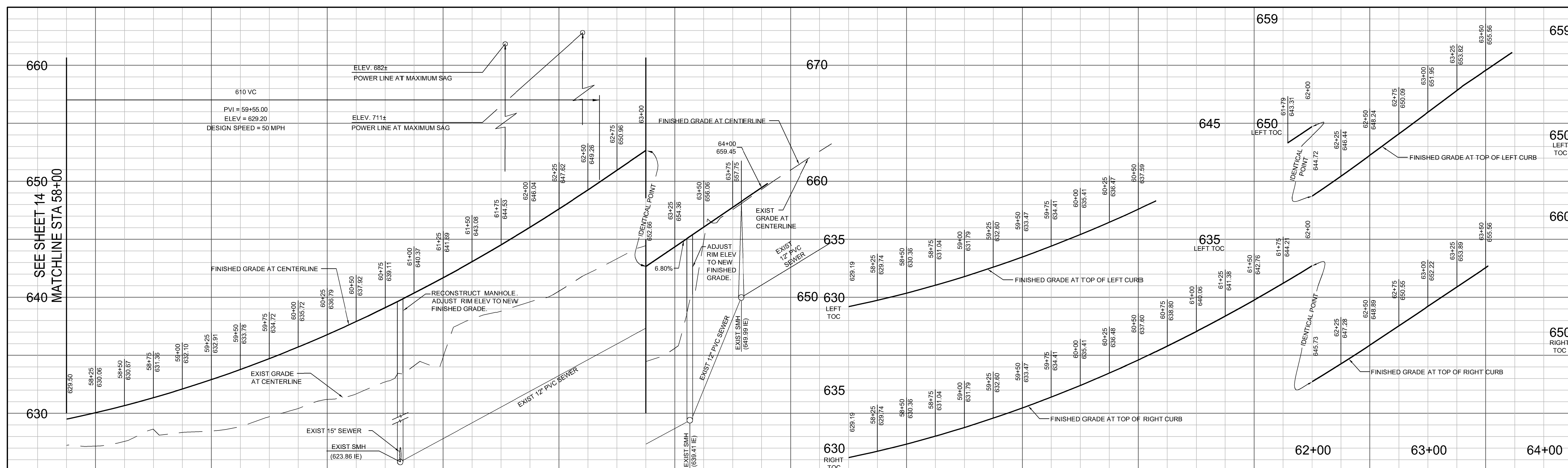
- CONSTRUCTION NOTES:**
- INSTALL 1-4" AND 1-6" PVC SLEEVE FOR IRRIGATION SYSTEM. ALL CURBS SHALL BE MARKED WITH A "SCORE MARK" TO DESIGNATE SLEEVE LOCATION, TYPICAL.
  - METAL BEAM GUARD RAIL PER CSP A77F1, TYPE 12B.
  - SIDEWALK RAMP TO BRIDGE DECK FG AT 8.33% MAX.

APPROVED: COUNTY OF SAN DIEGO

APPROVED BY: TITLE DATE:

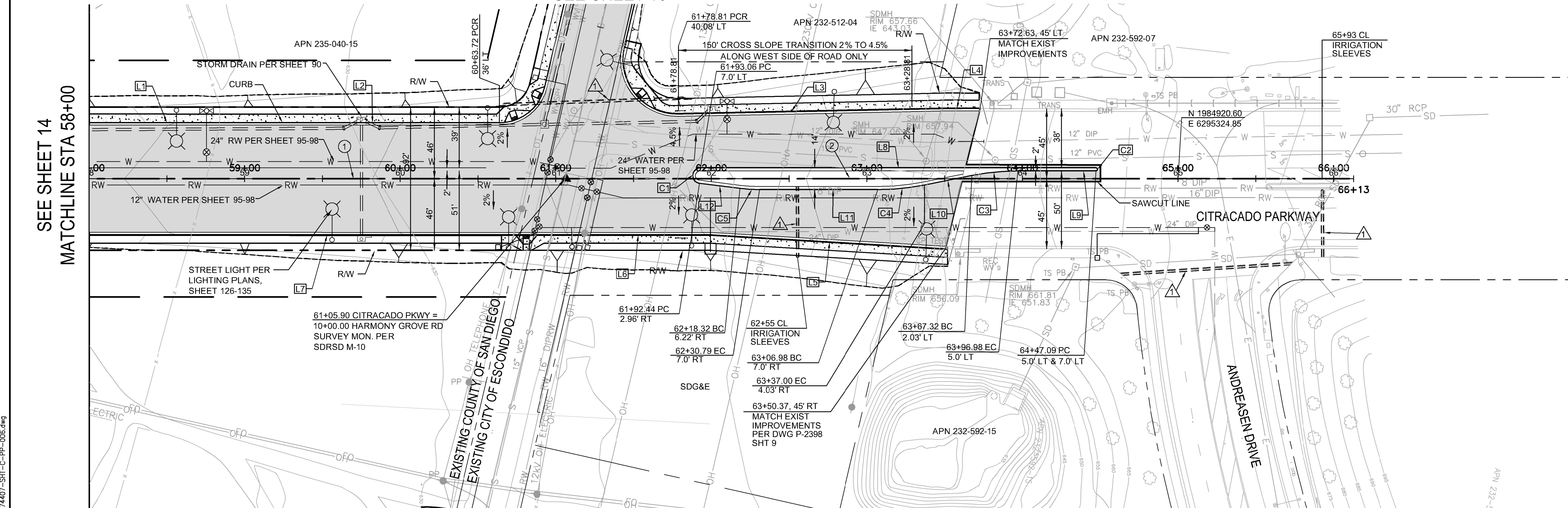






PROFILE: CITRACADO PARKWAY  
SCALE: HORIZ. 1"=40'  
VERT. 1"=4'

HARMONY GROVE ROAD  
SEE SHEET 16



PLAN: CITRACADO PARKWAY

CURB DATA TABLE

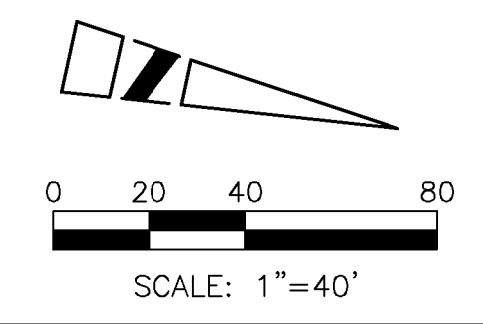
| NO. | DELTA/BEARING | RADIUS  | LENGTH  | COMMENTS                                   |
|-----|---------------|---------|---------|--------------------------------------------|
| C1  | 172°51'01"    | 5.00    | 15.08'  | TYPE B-1 CURB PER SDRSD G-6 (MOD. 8" HIGH) |
| C2  | 180°00'00"    | 1.01    | 3.16'   | "                                          |
| C3  | 11°10'42"     | 153.04  | 29.86'  | "                                          |
| C4  | 11°18'49"     | 153.00  | 30.21'  | "                                          |
| C5  | 7°09'57"      | 100.00  | 12.51'  | "                                          |
| L1  | N12°30'18"W   |         | 99.92'  | CURB & GUTTER PER SDRSD G-2                |
| L2  | N12°30'18"W   |         | 163.72' | "                                          |
| L3  | N13°39'29"W   |         | 171.26' | "                                          |
| L4  | N12°48'19"W   |         | 22.30'  | "                                          |
| L5  | N9°04'43"W    |         | 152.14' | "                                          |
| L6  | N12°30'44"W   |         | 94.11'  | "                                          |
| L7  | N12°30'18"W   |         | 305.81' | "                                          |
| L8  | S12°30'44"E   | 254.07' |         | TYPE B-1 CURB PER SDRSD G-6 (MOD. 8" HIGH) |
| L9  | S12°29'56"E   | 50.15'  |         | "                                          |
| L10 | N23°49'07"W   | 30.92'  |         | "                                          |
| L11 | N12°30'31"W   | 76.19'  |         | "                                          |
| L12 | N5°20'35"W    | 26.08'  |         | "                                          |

CENTERLINE DATA

| NO. | BEARING/DELTA | RADIUS | LENGTH  | REMARKS           |
|-----|---------------|--------|---------|-------------------|
| ①   | N 12°30'18" W | -      | 305.82' | CITRACADO PARKWAY |
| ②   | N 12°30'44" W | -      | 506.89' | CITRACADO PARKWAY |

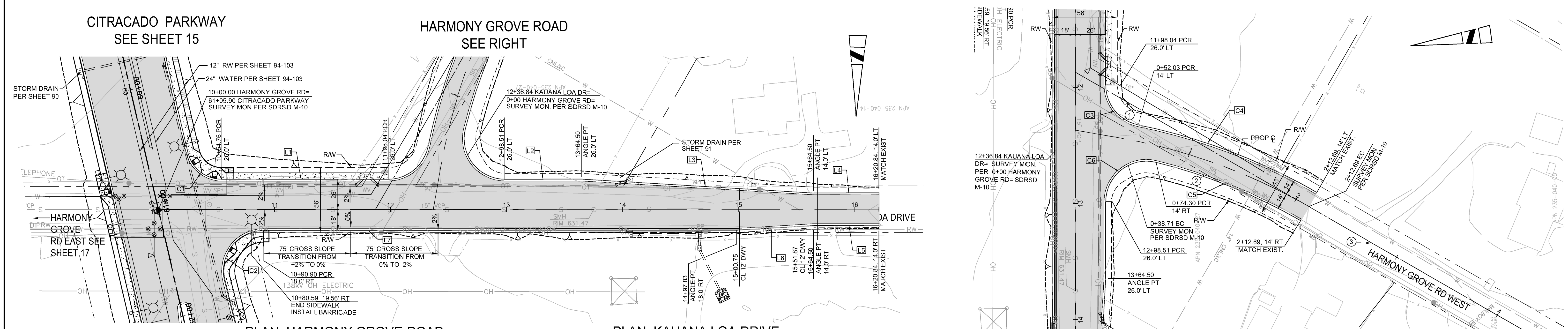
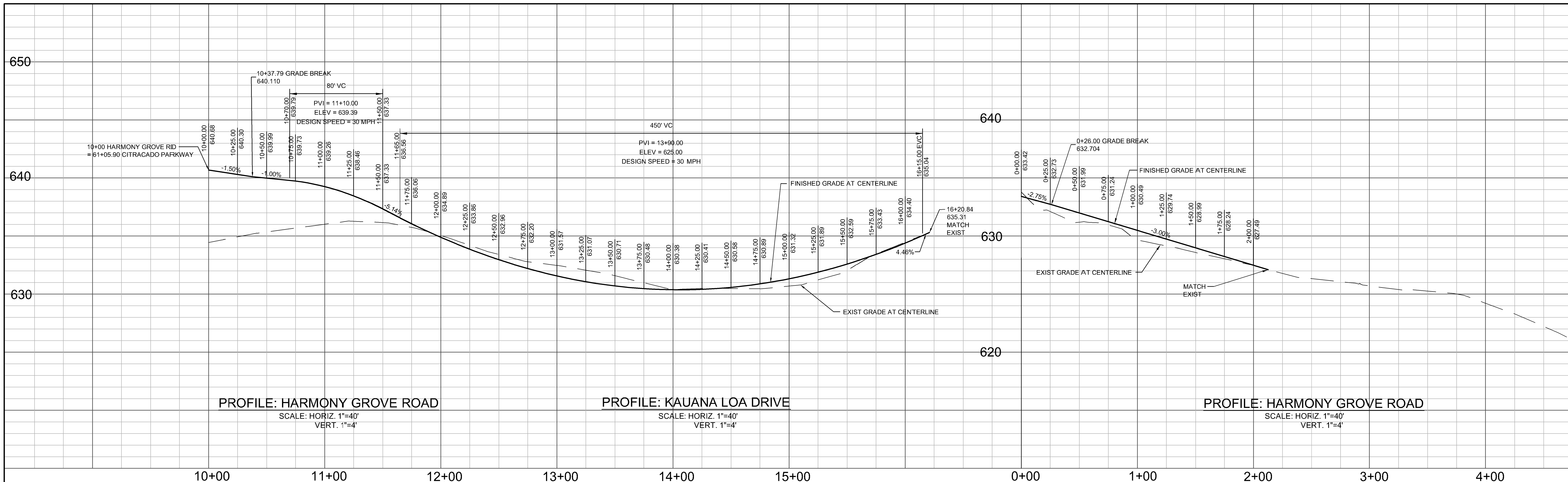
APPROVED:  
COUNTY OF SAN DIEGO

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE: \_\_\_\_\_



CONSTRUCTION NOTES:  
INSTALL 1.4" AND 1.6" PVC SLEEVE FOR IRRIGATION SYSTEM. ALL CURBS SHALL BE MARKED WITH A "SCORE MARK" TO DESIGNATE SLEEVE LOCATION, TYPICAL.

| CONSTRUCTION RECORD | REFERENCES | Date | By | REVISIONS | App'd | Date | BENCH MARK                                                                                                                                                                                                   | SCALE                                     | Office                        | Designed By                                                       | Drawn By | Checked By | Submitted                           | Approved                                       | CITY OF ESCONDIDO                           | DEPARTMENT OF PUBLIC WORKS                  | Drawing No.     |
|---------------------|------------|------|----|-----------|-------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------|-------------------------------------------------------------------|----------|------------|-------------------------------------|------------------------------------------------|---------------------------------------------|---------------------------------------------|-----------------|
| Contractor _____    |            |      |    |           |       |      | CONTROL PT. 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AG PAYMENT LOCATED AT THE INTERSECTION OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 642.965 DATUM: NGVD 29. | Horizontal<br>Vertical<br>1"=40'<br>1"=4' | Filmed _____<br>Traffic _____ | KO<br>Plans Prepared Under Supervision Of<br>JOHN C. DULLAGHAN IV | AJ/JD    | JD         | By _____<br>Assistant City Engineer | By _____<br>Assistant Director of Public Works | IMPROVEMENT PLANS FOR:<br>CITRACADO PARKWAY | PLAN & PROFILE<br>STA 58+00 TO STA 66+12.75 | Sheet 15 of 184 |



| CURB DATA TABLE |               |        |         |                             |
|-----------------|---------------|--------|---------|-----------------------------|
| NO.             | DELTA/BEARING | RADIUS | LENGTH  | COMMENTS                    |
| C1              | 76°56'26"     | 30.00  | 40.29'  | CURB & GUTTER PER SDRSD G-2 |
| C2              | 104°12'45"    | 35.00  | 63.66'  | "                           |
| L1              | N89°26'44"W   |        | 143.28' | "                           |
| L2              | N89°26'44"W   |        | 65.99'  | "                           |
| L3              | N86°00'43"W   |        | 203.61' | "                           |
| L4              | N89°26'44"W   |        | 53.09'  | "                           |
| L5              | S89°26'44"E   |        | 53.11'  | "                           |
| L6              | N87°07'15"E   |        | 70.03'  | "                           |
| L7              | S89°26'44"E   |        | 406.93' | "                           |

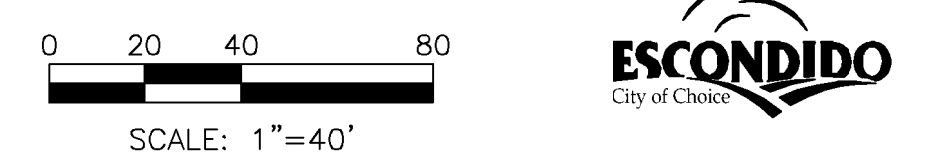
| CENTERLINE DATA |               |        |         |                    |
|-----------------|---------------|--------|---------|--------------------|
| NO.             | BEARING/DELTA | RADIUS | LENGTH  | REMARKS            |
| ①               | N 89°26'44"W  |        | 620.84' | HARMONY GROVE ROAD |

| CURB DATA TABLE |               |        |         |                             |
|-----------------|---------------|--------|---------|-----------------------------|
| NO.             | DELTA/BEARING | RADIUS | LENGTH  | COMMENTS                    |
| C3              | 78°28'24"     | 35.00  | 47.94'  | CURB & GUTTER PER SDRSD G-2 |
| C4              | 18°24'38"     | 514.00 | 185.16' | "                           |
| C5              | 15°51'33"     | 486.00 | 134.52' | "                           |
| C6              | 104°04'39"    | 35.00  | 63.58'  | "                           |

| CENTERLINE DATA |               |        |         |                    |
|-----------------|---------------|--------|---------|--------------------|
| NO.             | BEARING/DELTA | RADIUS | LENGTH  | REMARKS            |
| ①               | N 10°33'16"E  |        | 38.71'  | HARMONY GROVE ROAD |
| ②               | 19° 56' 13"   | 500'   | 173.98' | HARMONY GROVE ROAD |
| ③               | N 30°29'29"E  |        | 380.86' | HARMONY GROVE ROAD |

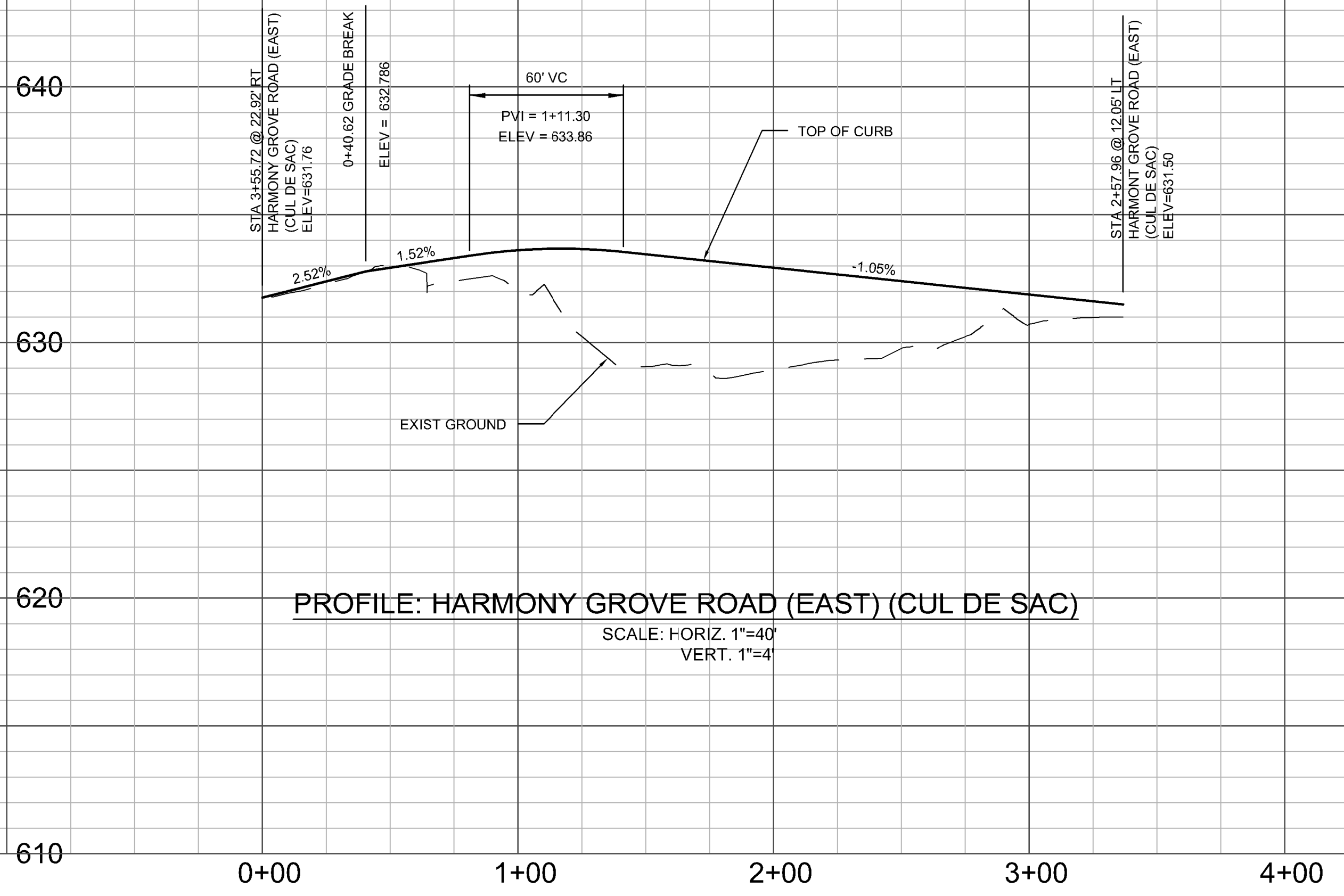
APPROVED:  
COUNTY OF SAN DIEGO

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_



DWG: P:\60274407\_5830\_000\_CAD\006\_Civil\Sheet\60274407-SH1-C-PP-007.dwg

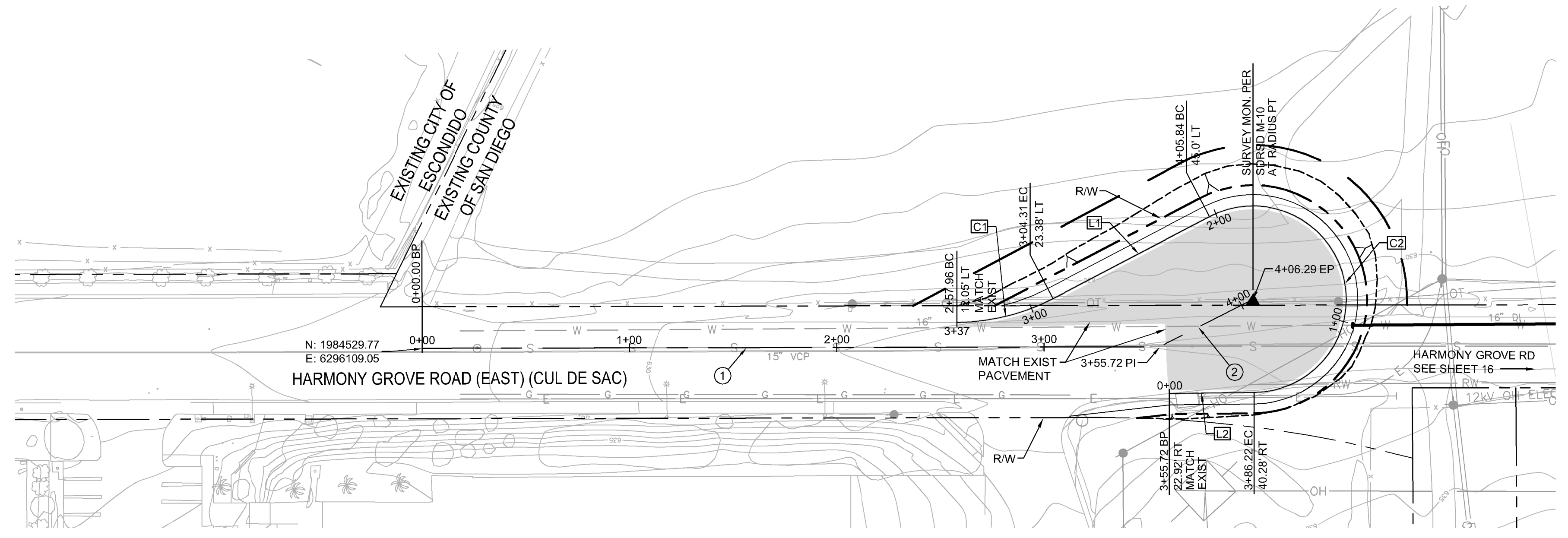
| CONSTRUCTION RECORD | REFERENCES | Date | By | REVISIONS | App'd | Date | BENCH MARK                                                                                                                                                                                                   | SCALE                                     | Office  | Designed By          | Drawn By | Checked By | Submitted | Approved | CITY OF ESCONDIDO      | DEPARTMENT OF PUBLIC WORKS | Drawing No.     |
|---------------------|------------|------|----|-----------|-------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------|----------------------|----------|------------|-----------|----------|------------------------|----------------------------|-----------------|
| Contractor          |            |      |    |           |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INTERSECTION OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 642.965 DATUM: NGVD 29. | Horizontal<br>1"=40'<br>Vertical<br>1"=4' | Traffic | JOHN C. DULLAGHAN IV | AJJJD    | JD         |           |          | IMPROVEMENT PLANS FOR: | PLAN & PROFILES            | Sheet 16 of 184 |



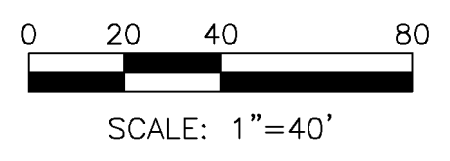
PROFILE: HARMONY GROVE ROAD (EAST) (CUL DE SAC)  
SCALE: HORIZ. 1"=40'  
VERT. 1"=4'

| CURB DATA TABLE |               |        |         |                                  |
|-----------------|---------------|--------|---------|----------------------------------|
| NO.             | DELTA/BEARING | RADIUS | LENGTH  | COMMENTS                         |
| C1              | 27°36'11"     | 100.00 | 48.18'  | 6" CURB AND GUTTER PER SDRSD G-2 |
| C2              | 207°03'50"    | 45.00  | 162.63' | "                                |
| L1              | S62°56'09"W   |        | 85.35'  | "                                |
| L2              | N90°00'00"E   |        | 40.62'  | "                                |

| CENTERLINE DATA |               |        |         |                    |
|-----------------|---------------|--------|---------|--------------------|
| NO.             | BEARING/DELTA | RADIUS | LENGTH  | REMARKS            |
| ①               | N 89°31'47" W |        | 355.72' | HARMONY GROVE ROAD |
| ②               | N 63°30'35" E |        | 50.57'  | HARMONY GROVE ROAD |

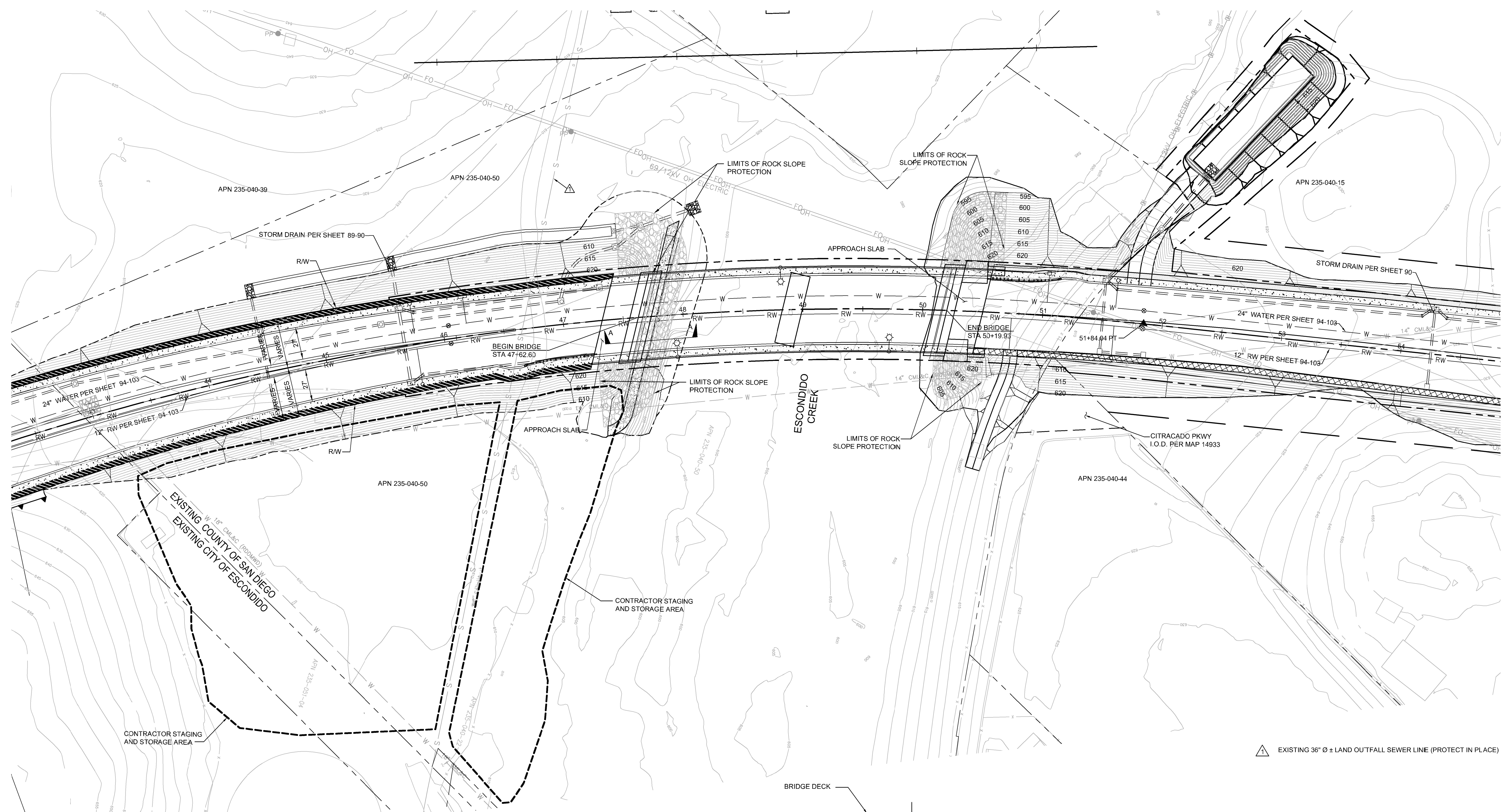


PLAN: HARMONY GROVE ROAD (EAST)  
(CUL-DE-SAC)

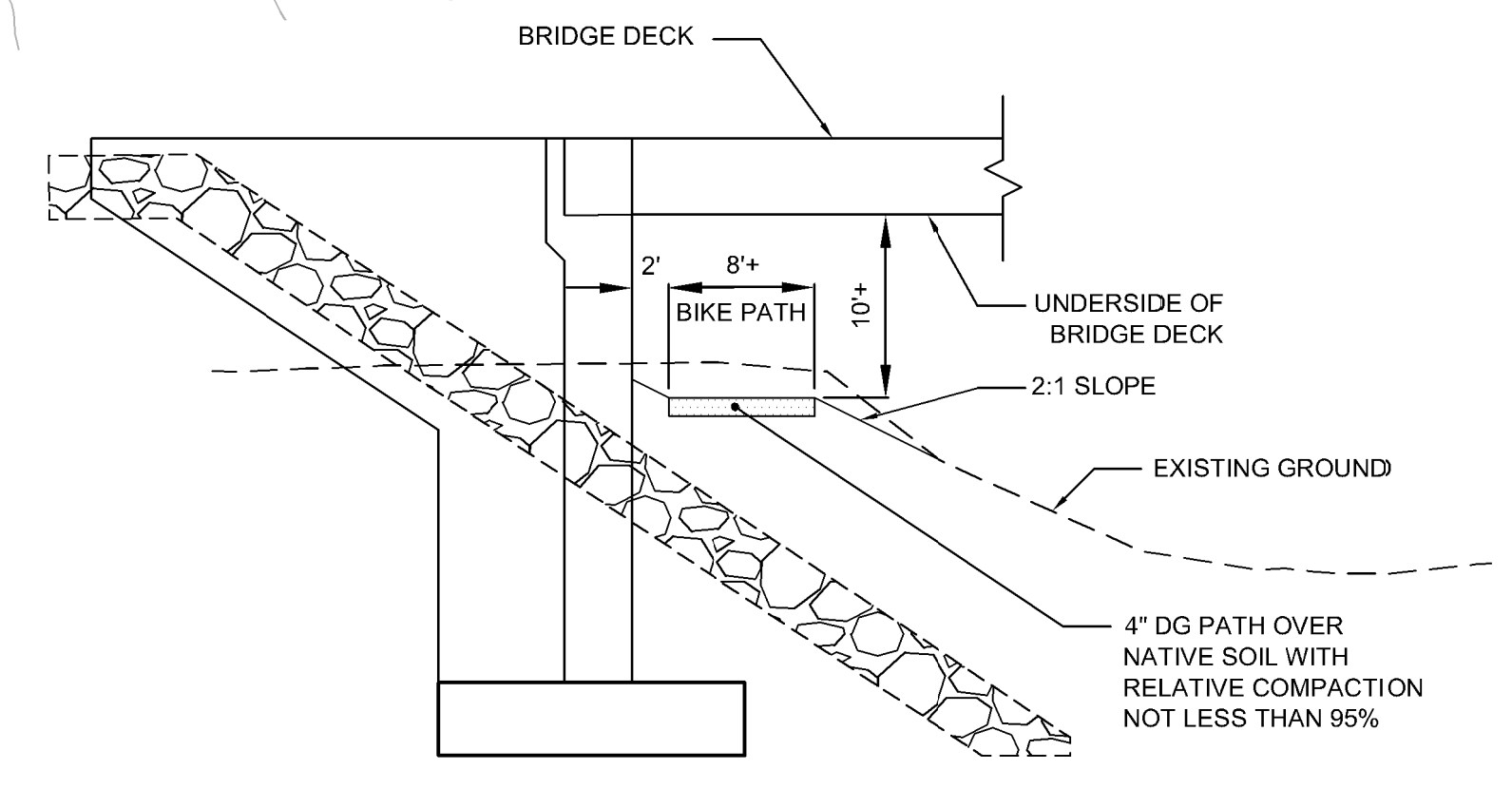


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| CONSTRUCTION RECORD |  | REFERENCES | Date | By | REVISIONS | App'd | Date | BENCH MARK                                                                                                                                                                                           | SCALE                               | Office  | Designed By                         | Drawn By | Checked By | Submitted | Approved | CITY OF ESCONDIDO      | DEPARTMENT OF PUBLIC WORKS    | Drawing No.     |
|---------------------|--|------------|------|----|-----------|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------|-------------------------------------|----------|------------|-----------|----------|------------------------|-------------------------------|-----------------|
| Contractor          |  |            |      |    |           |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AG PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 642.965 DATUM: NGVD 29. | Horizontal 1"=40'<br>Vertical 1"=4' | Traffic | JOHN C. DULLAGHAN IV                | AJJJD    | JD         |           |          | IMPROVEMENT PLANS FOR: | PLAN & PROFILE                |                 |
| Inspector           |  |            |      |    |           |       |      |                                                                                                                                                                                                      |                                     |         | Plans Prepared Under Supervision Of |          |            |           |          | CITRACADO PARKWAY      | HARMONY GROVE RD (CUL DE SAC) | Sheet 17 of 184 |
| Date Completed      |  |            |      |    |           |       |      |                                                                                                                                                                                                      |                                     |         | Date                                |          |            |           |          |                        |                               |                 |
|                     |  |            |      |    |           |       |      |                                                                                                                                                                                                      |                                     |         | R.C.E. No.                          |          |            |           |          |                        |                               |                 |

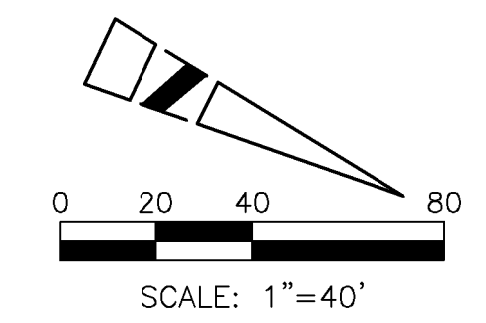


PLAN: CITRACADO PARKWAY



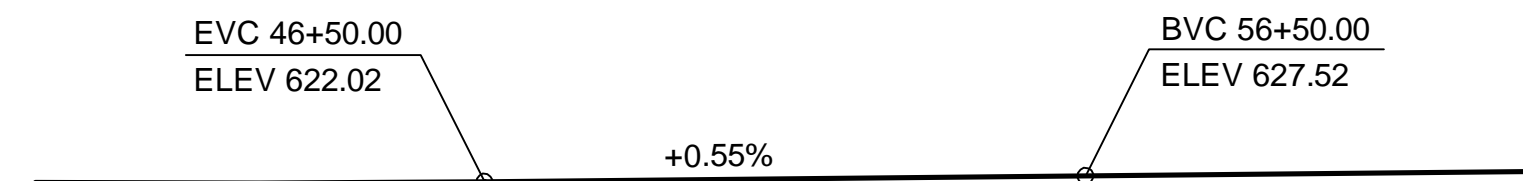
SECTION A-A DG BIKE PATH

APPROVED:  
 COUNTY OF SAN DIEGO  
 APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

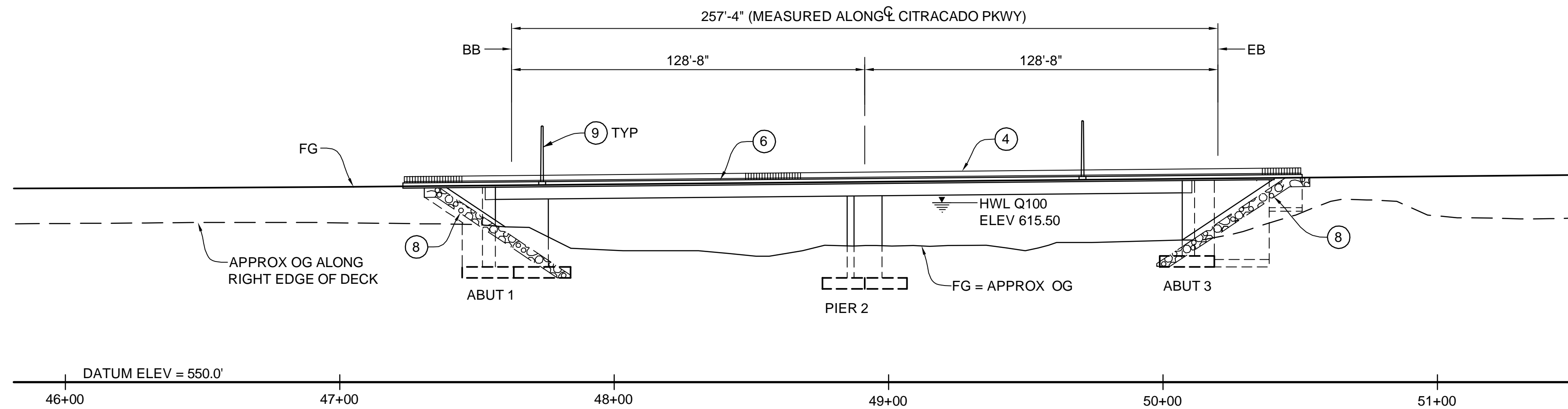


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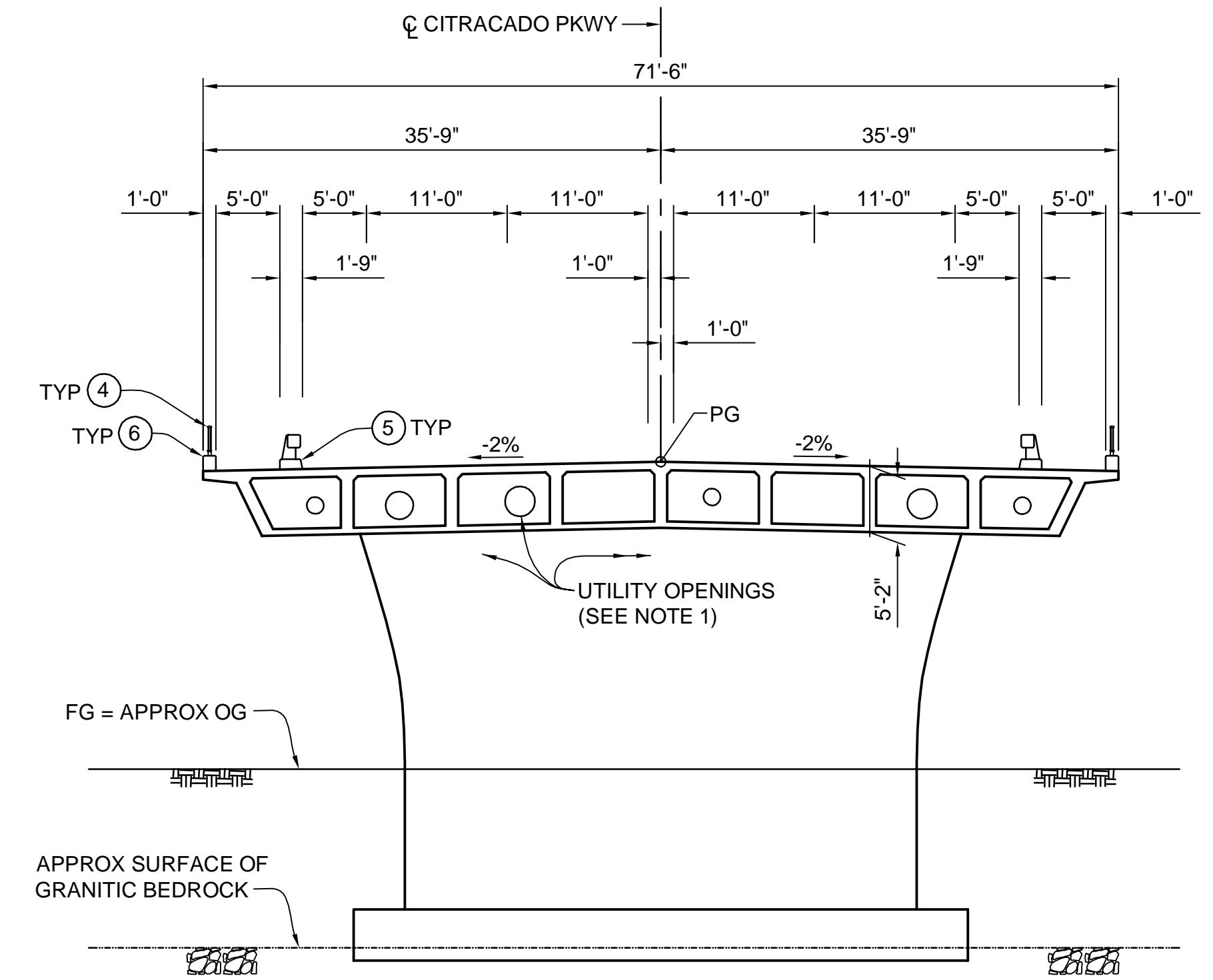
| CONSTRUCTION RECORD |  | REFERENCES | Date | By | REVISIONS | App'd | Date | BENCH MARK                                                                                                                                                                                                   | SCALE                                     | Office  | Designed By          | Drawn By | Checked By | Submitted                           | Approved                                       | CITY OF ESCONDIDO<br>IMPROVEMENT PLANS FOR:<br>CITRACADO PARKWAY | DEPARTMENT OF PUBLIC WORKS | Drawing No. |
|---------------------|--|------------|------|----|-----------|-------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------|----------------------|----------|------------|-------------------------------------|------------------------------------------------|------------------------------------------------------------------|----------------------------|-------------|
| Contractor          |  |            |      |    |           |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AG PAVEMENT LOCATED AT THE INTERSECTION OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 642.965 DATUM: NGVD 29. | Horizontal<br>1"=40'<br>Vertical<br>1"=4' | Traffic | JOHN C. DULLAGHAN IV | AJJJD    | JD         | By _____<br>Assistant City Engineer | By _____<br>Assistant Director of Public Works |                                                                  | BRIDGE GRADING             |             |



**PROFILE GRADE**  
No Scale



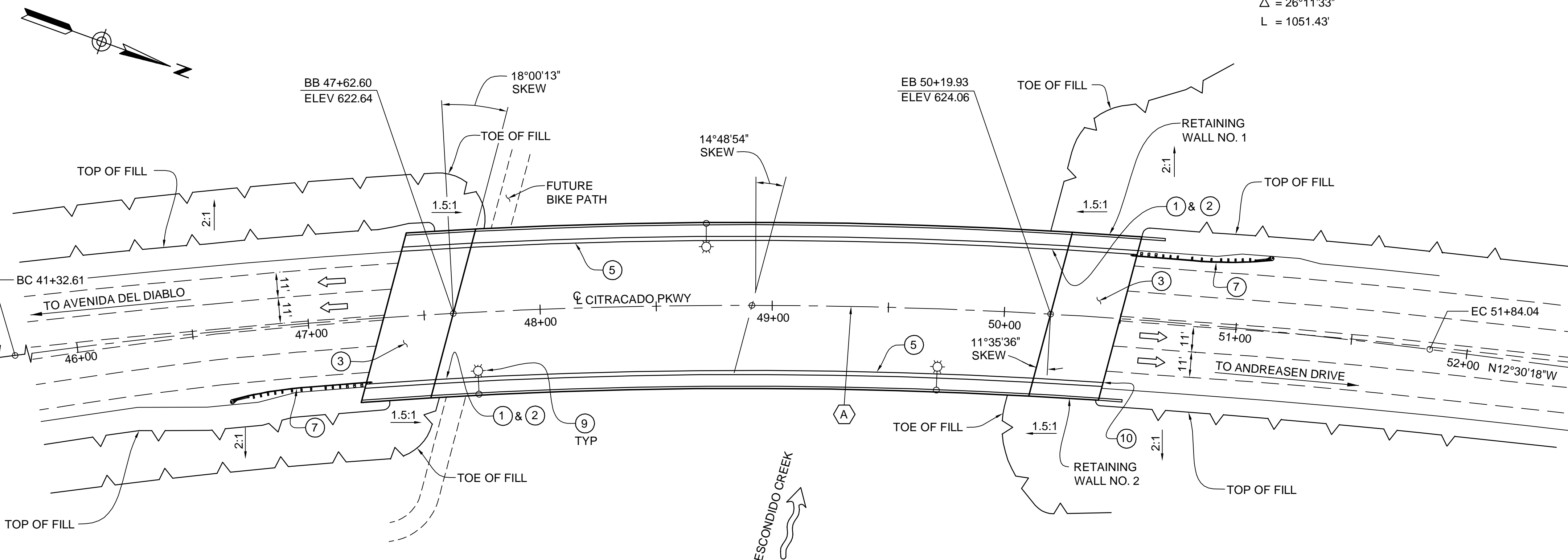
**DEVELOPED ELEVATION**  
1" = 30'



**TYPICAL SECTION**  
1" = 10'

**CURVE DATA**

⬡  
R = 2300'  
Δ = 26°11'33"  
L = 1051.43'



**PLAN**  
1" = 30'

**LEGEND**

- ① PAINT "BR NO 57C-XXXX" & YEAR COMPLETED
- ② PAINT "CITRACADO PKWY BRIDGE"
- ③ STRUCTURE APPROACH TYPE N(30S)
- ④ METAL RAILING
- ⑤ CONCRETE BARRIER, TYPE 80 (MOD)
- ⑥ CONCRETE PARAPET
- ⑦ MBGR, SEE "ROAD PLANS"
- ⑧ ROCK SLOPE PROTECTION
- ⑨ LUMINAIRE, SEE "LIGHTING PLANS"
- DIRECTION OF FLOW
- ⇄ DIRECTION OF TRAFFIC

**NOTES:**

1. FOR UTILITIES ON BRIDGE, SEE "TYPICAL SECTION" SHEET.
2. FOR GENERAL NOTES AND INDEX TO PLANS, SEE "GENERAL NOTES" SHEET.
3. FOR HYDRAULIC INFORMATION, SEE "FOUNDATION PLAN" SHEET.

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DWG: PA 10274407 - Citracado Parkway\_ORA\_000\_CAD\_008\_Structural\Sheets\Bridges\10274407-SH-S-BR-001.dwg

| CONSTRUCTION RECORD |  | REFERENCES |    | REVISIONS |      | BENCH MARK                                                                                                                                                                             |                     | SCALE             |         | Office |    | Designed By |             | Drawn By |    | Checked By |       | Submitted |    | Approved                                |                          | CITY OF ESCONDIDO   |                            |
|---------------------|--|------------|----|-----------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------|---------|--------|----|-------------|-------------|----------|----|------------|-------|-----------|----|-----------------------------------------|--------------------------|---------------------|----------------------------|
| Contractor          |  | Date       | By | App'd     | Date | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. DATUM: NGVD 29. | Horizontal AS SHOWN | Vertical AS SHOWN | Traffic | JH     | JQ | JC          | T.W. DUDLEY | JQ       | JC | 5/21/2015  | 39514 | By        | By | Assistant City Engineer of Public Works | Director of Public Works | Bridge Plans for:   | DEPARTMENT OF PUBLIC WORKS |
| Inspector           |  |            |    |           |      |                                                                                                                                                                                        |                     |                   |         |        |    |             |             |          |    |            |       |           |    |                                         |                          | BRIDGE GENERAL PLAN | Drawing No.                |
| Date Completed      |  |            |    |           |      |                                                                                                                                                                                        |                     |                   |         |        |    |             |             |          |    |            |       |           |    |                                         |                          | CITRACADO PARKWAY   | Sheet 19 of 184            |



**GENERAL NOTES:**

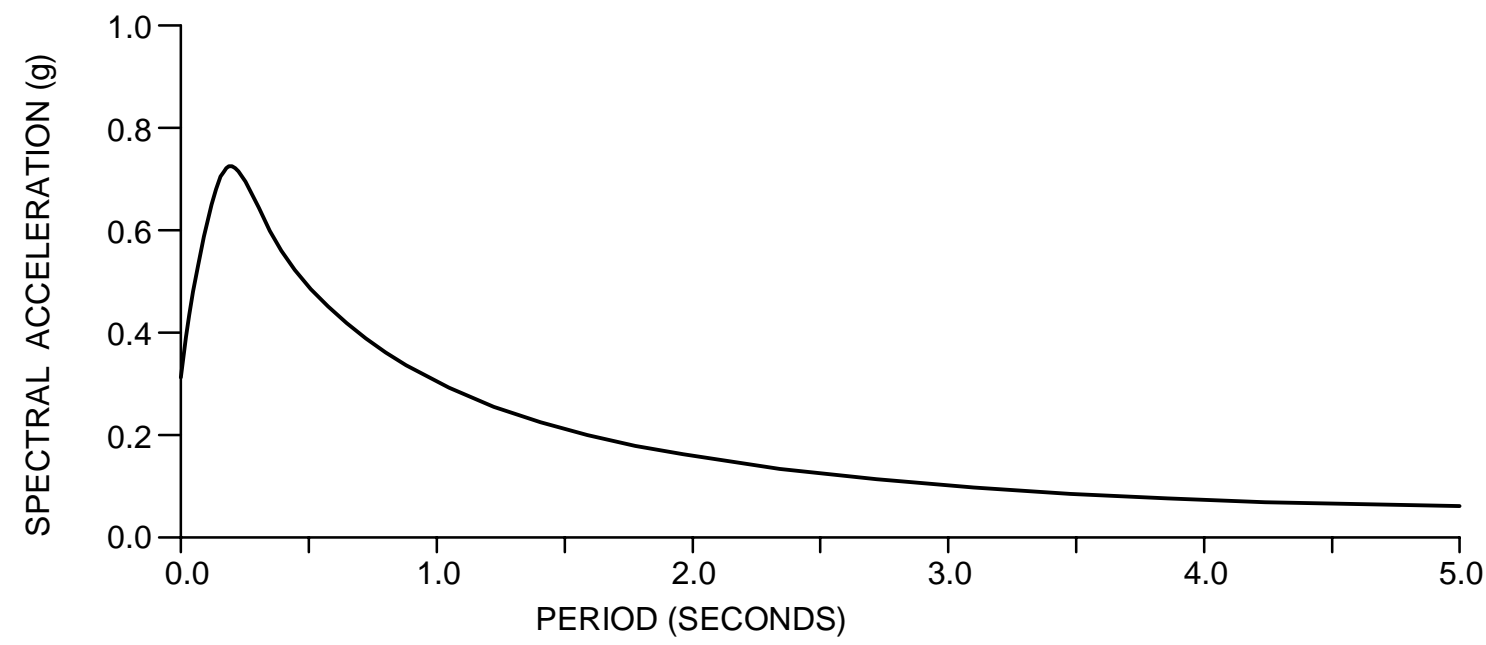
DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4TH EDITION AND THE CALTRANS AMENDMENTS PREFACE DATED NOVEMBER 2011; EXCEPT THAT ABUTMENTS, RETAINING WALLS, RAILING AND BARRIER DETAILS TAKEN FROM STANDARD PLANS MARCH 2006 AND STANDARD BRIDGE DETAILS XS SHEETS ARE DESIGNED USING BRIDGE DESIGN SPECIFICATIONS (1996 AASHTO W/ REVISIONS BY CALTRANS)

SEISMIC DESIGN: CALTRANS SEISMIC DESIGN CRITERIA (SDC), VERSION 1.6 DATED NOVEMBER 2010

DEAD LOAD: INCLUDES 35 PSF FOR FUTURE WEARING SURFACE.

LIVE LOADING: HL-93 W/ LOW-BOY AND PERMIT DESIGN LOAD  
75 PSF PEDESTRIAN LOAD

SEISMIC LOADING: SITE SPECIFIC ARS CURVE



SHEAR WAVE VELOCITY (VS30) = 1640 ft/sec  
PGA = 0.312 g

REINFORCED CONCRETE:  
fy = 60 ksi  
fc = 3.6 ksi, UNLESS OTHERWISE NOTED  
n = 8

PRESTRESSED CONCRETE:  
SEE "PRESTRESSING NOTES" ON "GIRDER LAYOUT" SHEET.

STRUCTURAL STEEL: Fy = ASTM A36, Fy = 36 ksi

**STANDARD PLANS DATED 2006 WITH ERRATA**

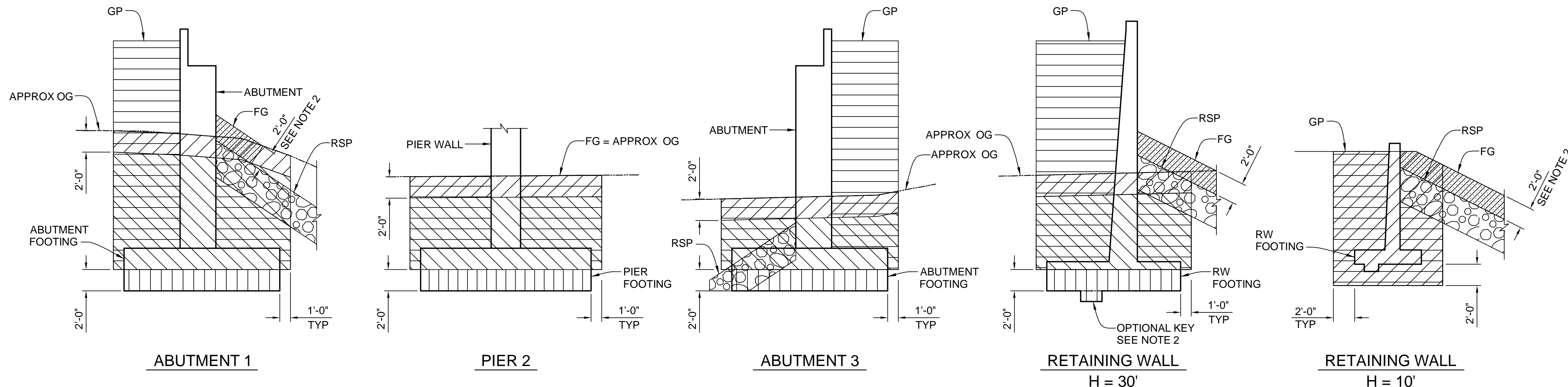
THE FOLLOWING STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS ARE PART OF THESE CONTRACT DRAWINGS

|            |                                                                                      |
|------------|--------------------------------------------------------------------------------------|
| A10A       | ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)                                            |
| A10B       | ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)                                            |
| A10C       | SYMBOLS (SHEET 1 OF 2)                                                               |
| A10D       | SYMBOLS (SHEET 2 OF 2)                                                               |
| A62B       | LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE SURCHARGE AND WALL            |
| A62C       | LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE                               |
| B0-1       | BRIDGE DETAILS                                                                       |
| B0-3       | BRIDGE DETAILS                                                                       |
| B0-5       | BRIDGE DETAILS                                                                       |
| B0-13      | BRIDGE DETAILS                                                                       |
| B3-1       | RETAINING WALL TYPE 1 - H=4' THROUGH 30'                                             |
| B3-8       | RETAINING WALL DETAILS NO. 1                                                         |
| RSP B6-21  | JOINT SEALS (MAXIMUM MOVEMENT RATING = 2')                                           |
| B7-1       | BOX GIRDER DETAILS                                                                   |
| B7-6       | DECK DRAINS TYPES D-1 AND D-2                                                        |
| B7-8       | DECK DRAINAGE DETAILS                                                                |
| B7-10      | UTILITY OPENING BOX GIRDER                                                           |
| B8-5       | CAST-IN-PLACE PRESTRESSED GIRDER DETAILS                                             |
| B11-51     | TUBULAR HAND RAILING                                                                 |
| B11-54     | CONCRETE BARRIER TYPE 26                                                             |
| RSP B11-60 | CONCRETE BARRIER TYPE 80 (SHEET 1 OF 2)                                              |
| B11-61     | CONCRETE BARRIER TYPE 80 (SHEET 2 OF 2)                                              |
| B14-5      | WATER SUPPLY LINE (DETAILS) (PIPE SIZES LESS THAN 4")                                |
| RSP ES-6A  | ELECTRICAL SYSTEMS (LIGHTING STANDARD, TYPE 15 AND 21)                               |
| ES-6B      | ELECTRICAL SYSTEMS (LIGHTING STANDARD, TYPE 15 AND 21, BARRIER RAIL MOUNTED DETAILS) |
| ES-9B      | ELECTRICAL SYSTEMS (ELECTRICAL DETAILS, STRUCTURE INSTALLATIONS)                     |
| RSP ES-9C  | ELECTRICAL SYSTEMS (ELECTRICAL DETAILS, STRUCTURE INSTALLATIONS)                     |
| ES-9D      | ELECTRICAL SYSTEMS (ELECTRICAL DETAILS, STRUCTURE INSTALLATIONS)                     |



**INDEX TO PLANS**

| SHEET No. | TITLE                               |
|-----------|-------------------------------------|
| 19        | BRIDGE GENERAL PLAN                 |
| 20        | GENERAL NOTES                       |
| 21        | DECK CONTOURS                       |
| 22        | FOUNDATION PLAN                     |
| 23        | ABUTMENT 1 LAYOUT                   |
| 24        | ABUTMENT 3 LAYOUT                   |
| 25        | ABUTMENT DETAILS NO. 1              |
| 26        | ABUTMENT DETAILS NO. 2              |
| 27        | ABUTMENT DETAILS NO. 3              |
| 28        | PIER LAYOUT                         |
| 29        | PIER DETAILS                        |
| 30        | TYPICAL SECTION                     |
| 31        | GIRDER LAYOUT                       |
| 32        | GIRDER REINFORCEMENT                |
| 33        | METAL RAILING DETAILS               |
| 34        | MISCELLANEOUS DETAILS NO. 1         |
| 35        | MISCELLANEOUS DETAILS NO. 2         |
| 36        | BARRIER AND PARAPET RECESS DETAILS  |
| 37        | ROCK SLOPE PROTECTION DETAILS       |
| 38        | JOINT SEAL ARMOR DETAILS            |
| 39        | STRUCTURE APPROACH TYPE N(30S)      |
| 40        | STRUCTURE APPROACH DRAINAGE DETAILS |
| 41        | LIMITS OF CONCRETE STAINING         |
| 42        | LOG OF TEST BORINGS 1 OF 5          |
| 43        | LOG OF TEST BORINGS 2 OF 5          |
| 44        | LOG OF TEST BORINGS 3 OF 5          |
| 45        | LOG OF TEST BORINGS 4 OF 5          |
| 46        | LOG OF TEST BORINGS 5 OF 5          |



**LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL**  
NO SCALE

**NOTES:**

- SEE "ROCK SLOPE PROTECTION DETAILS" SHEET FOR LIMITS OF ROCK SLOPE PROTECTION PLACEMENT.
- SEE "ABUTMENT DETAILS NO. 3" SHEET FOR RETAINING WALL CONSTRUCTION DETAILS.
- STRUCTURE BACKFILL (ROCK SLOPE PROTECTION) EXTENDS TO THE LIMITS OF ROCK SLOPE PROTECTION. SEE "ROCK SLOPE PROTECTION DETAILS" SHEET FOR ROCK SLOPE PROTECTION PLACEMENT DETAILS.

**LEGEND**

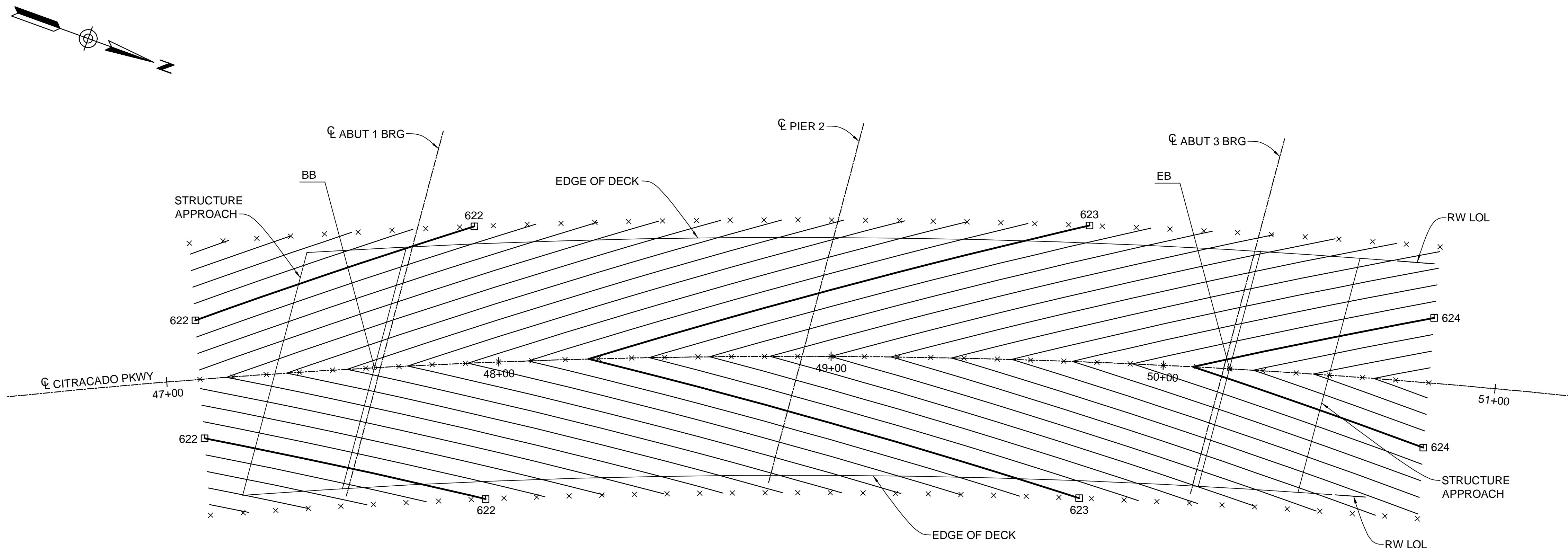
|  |                                                        |
|--|--------------------------------------------------------|
|  | STRUCTURE EXCAVATION (TYPE D)                          |
|  | STRUCTURE EXCAVATION                                   |
|  | ROCK EXCAVATION                                        |
|  | STRUCTURE BACKFILL                                     |
|  | ROCK SLOPE PROTECTION (RSP), SEE NOTE 1                |
|  | STRUCTURE BACKFILL (ROCK SLOPE PROTECTION), SEE NOTE 3 |

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

| CONSTRUCTION RECORD | REFERENCES | Date | By | REVISIONS | App'd | Date | BENCH MARK                                                                                                                                                                                           | SCALE                                    | Office  | Designed By                               | Drawn By | Checked By | Submitted | Approved | CITY OF ESCONDIDO                      | DEPARTMENT OF PUBLIC WORKS | Drawing No.     |
|---------------------|------------|------|----|-----------|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------|-------------------------------------------|----------|------------|-----------|----------|----------------------------------------|----------------------------|-----------------|
|                     |            |      |    |           |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 842.965 DATUM: NGVD 29. | Horizontal AS SHOWN<br>Vertical AS SHOWN | Traffic | JH<br>Plans Prepared Under Supervision Of | JQ       | JC         |           |          | Bridge Plans for:<br>CITRACADO PARKWAY | GENERAL NOTES              | Sheet 20 of 184 |



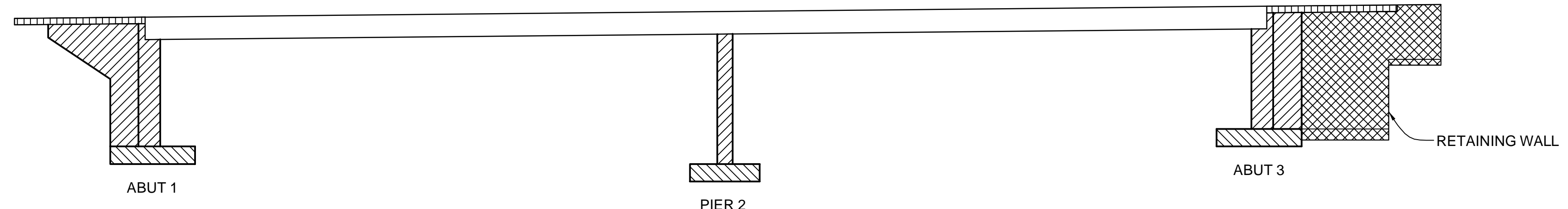
100% SUBMITTAL - NOT FOR CONSTRUCTION - MAY 21, 2015



**PLAN**  
1" = 20'

**LEGEND**

- X INDICATES 10' INTERVALS MEASURED ALONG C CITRACADO PKWY
- INDICATES EVEN FOOT CONTOURS
- CONTOUR INTERVAL IS 0.10 FOOT
- CONTOURS DO NOT INCLUDE CAMBER



**CONCRETE STRENGTH AND TYPE LIMITS**  
NO SCALE

**LEGEND**

- STRUCTURAL CONCRETE BRIDGE (f<sub>c</sub> = 4.5 ksi @ 28 DAYS)
- ▨ STRUCTURAL CONCRETE, BRIDGE (f<sub>c</sub> = 3.6 ksi @ 28 DAYS)
- ▩ STRUCTURAL CONCRETE, BRIDGE FOOTING (f<sub>c</sub> = 3.6 ksi @ 28 DAYS)
- ▧ STRUCTURAL CONCRETE, APPROACH SLAB
- ▦ STRUCTURAL CONCRETE, RETAINING WALL (f<sub>c</sub> = 3.6 ksi @ 28 DAYS)

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL  
CONTROLLING FIELD DIMENSIONS BEFORE  
ORDERING OR FABRICATING ANY MATERIAL.



| CONSTRUCTION RECORD |  | REFERENCES |  | Date | By | REVISIONS |  | App'd | Date | BENCH MARK                                                                                                                                                                                            | SCALE                                    | Office  | Designed By                         | Drawn By | Checked By                         | Submitted | Approved | CITY OF ESCONDIDO |    | DEPARTMENT OF PUBLIC WORKS | Drawing No.                             |                          |
|---------------------|--|------------|--|------|----|-----------|--|-------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------|-------------------------------------|----------|------------------------------------|-----------|----------|-------------------|----|----------------------------|-----------------------------------------|--------------------------|
| Contractor          |  |            |  |      |    |           |  |       |      | CONTROL PT. 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 842.965 DATUM: NGVD 29. | Horizontal AS SHOWN<br>Vertical AS SHOWN | Traffic | JH                                  | JQ       | JC                                 |           |          |                   |    |                            |                                         |                          |
| Inspector           |  |            |  |      |    |           |  |       |      |                                                                                                                                                                                                       |                                          |         | Plans Prepared Under Supervision Of |          |                                    |           |          |                   | By | By                         | Assistant City Engineer of Public Works | Director of Public Works |
| Date Completed      |  |            |  |      |    |           |  |       |      |                                                                                                                                                                                                       |                                          |         | T.W. DUDLEY                         |          | Date 5/21/2015<br>R.C.E. No. 39514 |           |          |                   |    |                            |                                         | Sheet 21 of 184          |

HYDROLOGIC & HYDRAULIC DATA SUMMARY

| DESCRIPTION        | 10-YEAR FLOOD | 50-YEAR FLOOD | 100-YEAR FLOOD | OVERTOPPING FLOOD | DESIGN FLOOD |
|--------------------|---------------|---------------|----------------|-------------------|--------------|
| FREQUENCY (YEARS)  | 10            | 50            | 100            | -                 | 50           |
| DISCHARGE cfs      | 2630          | 12100         | 18100          | 44000             | 12100        |
| W.S ELEVATION (ft) | 603.24        | 612.19        | 615.50         | 621.62            | 603.24       |
| VELOCITY (ft/sec)  | 3.4           | 3.3           | 3.7            | 4.4               | 3.3          |

NOTE: FLOODPLAIN DATA ARE BASED ON INFORMATION AVAILABLE WHEN THE PLANS WERE PREPARED AND ARE SHOWN TO MEET FEDERAL REQUIREMENTS. THE ACCURACY OF SAID INFORMATION IS NOT WARRANTED BY THE CITY OF ESCONDIDO AND ALL INTERESTED OR AFFECTED PARTIES SHOULD MAKE THEIR OWN INVESTIGATION.

SPREAD FOOTING DATA TABLE

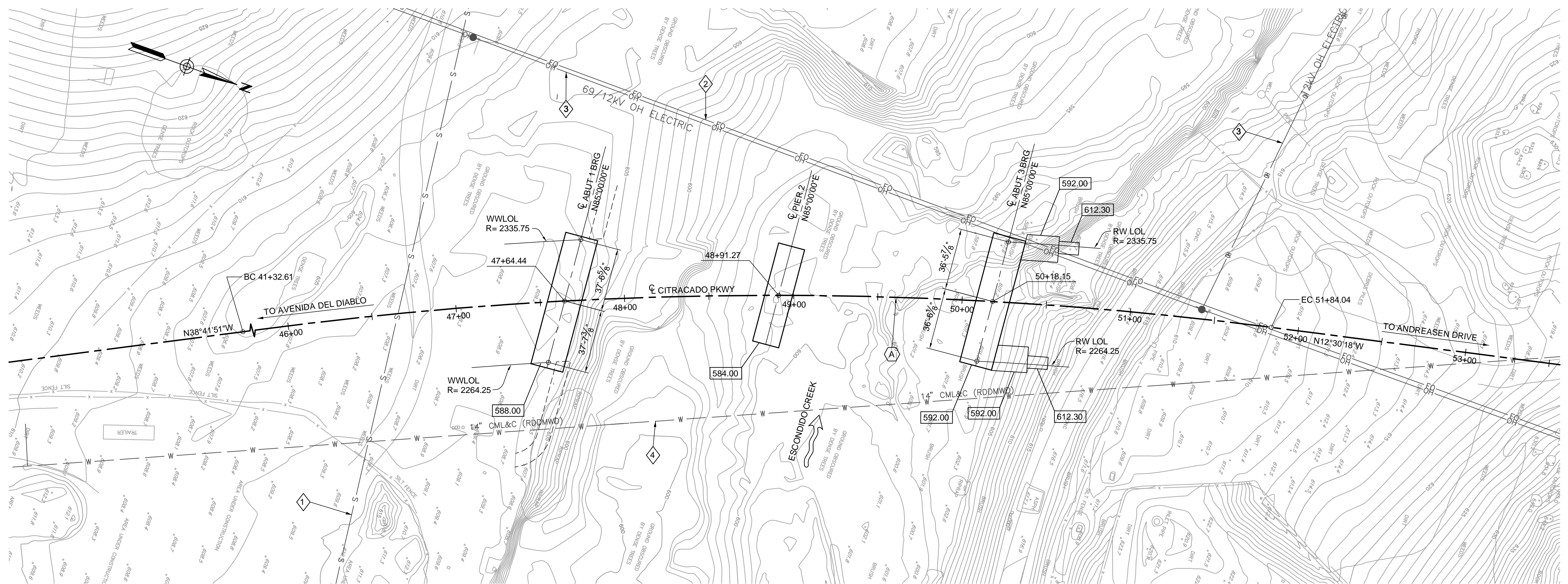
| SUPPORT LOCATION       | WORKING STRESS DESIGN (WSD)                         |                                        | LOAD AND RESISTANCE FACTOR DESIGN (LRFD)                  |                                                                          |                                                                               |
|------------------------|-----------------------------------------------------|----------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------|
|                        | PERMISSIBLE GROSS CONTACT STRESS (ksf) (Settlement) | ALLOWABLE GROSS BEARING CAPACITY (ksf) | SERVICE PERMISSIBLE NET CONTACT STRESS (ksf) (Settlement) | STRENGTH FACTORED GROSS NOMINAL BEARING RESISTANCE $\phi_b = 0.45$ (ksf) | EXTREME EVENT FACTORED GROSS NOMINAL BEARING RESISTANCE $\phi_b = 1.00$ (ksf) |
| ABUT 1                 | 20 (1")                                             | 20                                     | N/A                                                       | N/A                                                                      | N/A                                                                           |
| PIER 2                 | N/A                                                 | N/A                                    | 20 (1")                                                   | 27                                                                       | 60                                                                            |
| ABUT 3                 | 20 (1")                                             | 20                                     | N/A                                                       | N/A                                                                      | N/A                                                                           |
| RETAINING WALL H = 30' | 20 (1")                                             | 20                                     | N/A                                                       | N/A                                                                      | N/A                                                                           |
| RETAINING WALL H = 10' | 2.5 (1")                                            | 2.5                                    | N/A                                                       | N/A                                                                      | N/A                                                                           |

EXISTING UTILITY LEGEND

- 1 EXIST 36"Ø± LAND OUTFALL SEWER LINE (PROTECT-IN-PLACE)
- 2 EXIST FIBER OPTIC LINE (TO BE RELOCATED), SEE "ROAD PLANS"
- 3 EXIST 69/12KV OVERHEAD POWER LINE (TO BE RELOCATED), SEE "ROAD PLANS"
- 4 EXIST 14"Ø± CML&C WATER LINE (PROTECT-IN-PLACE)

LEGEND

- INDICATES BOTTOM OF FOOTING ELEVATION
- INDICATES DIRECTION OF FLOW



CURVE DATA

- A R = 2300'
- Δ = 26°11'33"
- L = 1051.43'

PLAN  
1" = 30'

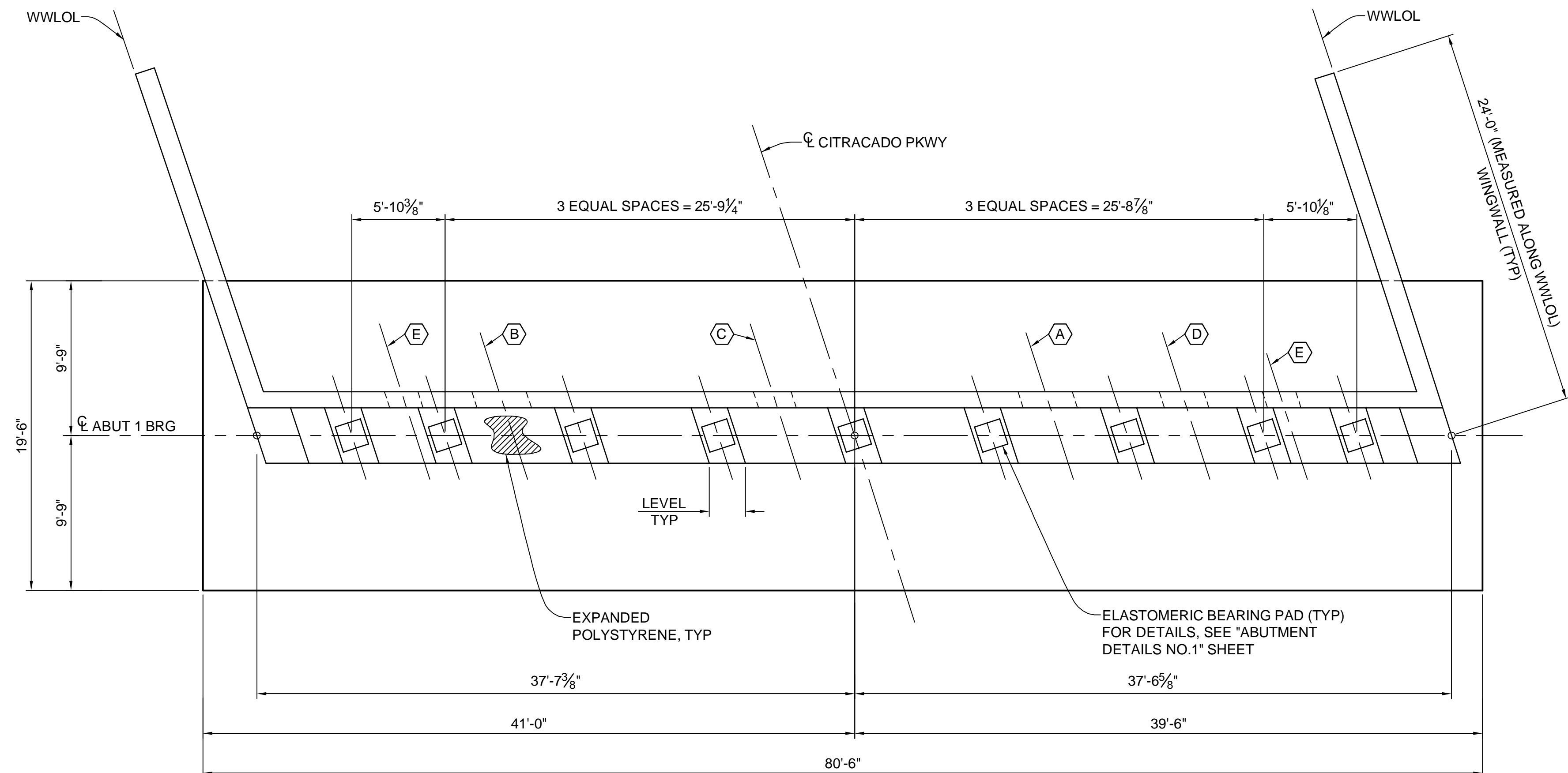
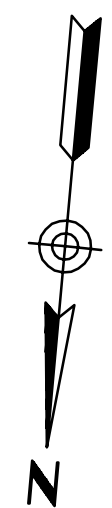
NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

| CONSTRUCTION RECORD | REFERENCES | Date | By | REVISIONS | App'd | Date | BENCH MARK                                                                                                                                                                                                 | SCALE                                    | Office | Designed By | Drawn By | Checked By | Submitted | Approved | CITY OF ESCONDIDO | DEPARTMENT OF PUBLIC WORKS | Drawing No.     |
|---------------------|------------|------|----|-----------|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------|-------------|----------|------------|-----------|----------|-------------------|----------------------------|-----------------|
|                     |            |      |    |           |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 142336. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN A CEMENT LOCATED AT THE INTERSECTION OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 642.965 DATUM: NGVD 29. | Horizontal AS SHOWN<br>Vertical AS SHOWN |        | JH          | JQ       | JC         |           |          | Bridge Plans for: |                            |                 |
|                     |            |      |    |           |       |      |                                                                                                                                                                                                            |                                          |        | T.W. DUDLEY |          |            |           |          | CITRACADO PARKWAY | FOUNDATION PLAN            | Sheet 22 of 184 |

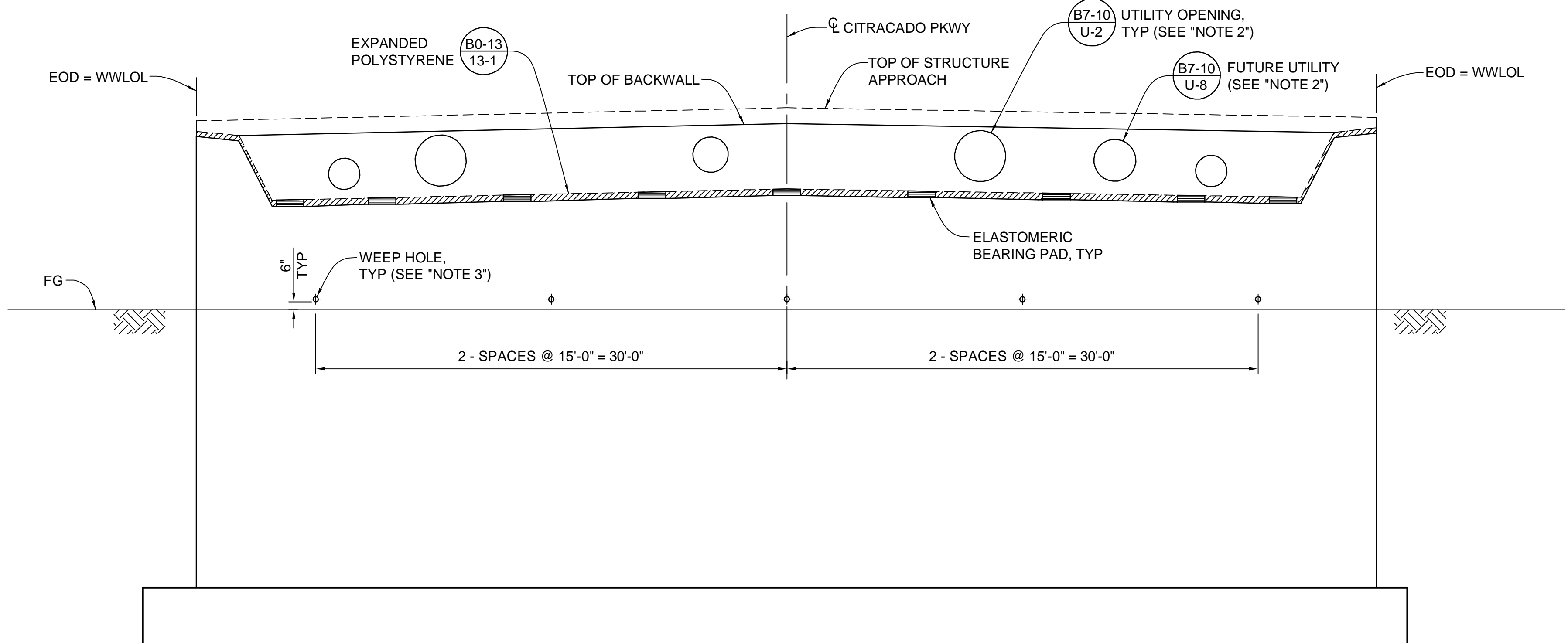


100% SUBMITTAL - NOT FOR CONSTRUCTION - MAY 21, 2015





**PLAN**  
3/16" = 1'-0"



**ELEVATION**  
3/16" = 1'-0"

**LEGEND**

- (A) UTILITY IDENTIFICATION (SEE "NOTE 2")
- [Hatched Box] EXPANDED POLYSTYRENE

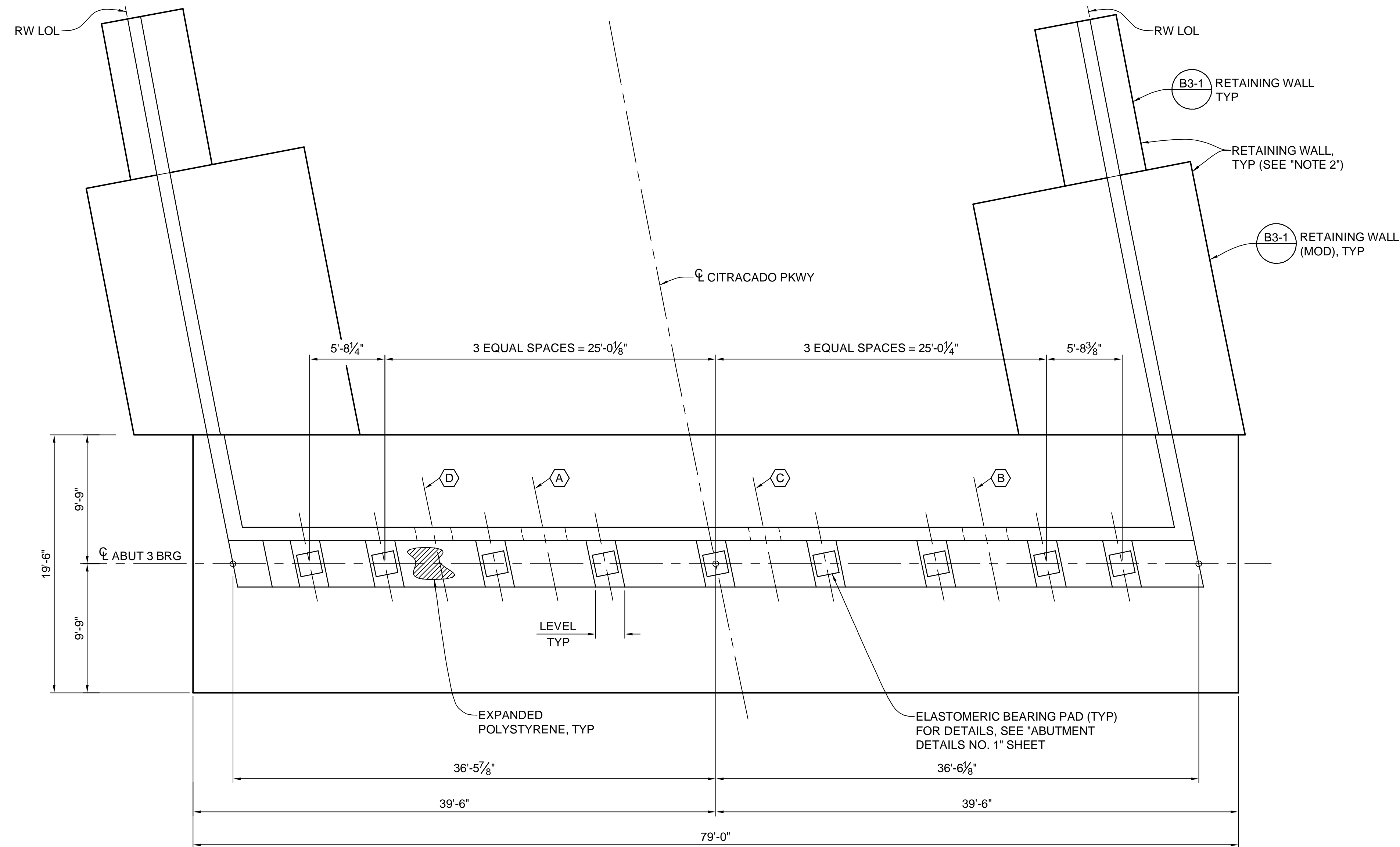
**NOTES:**

1. FOR ABUTMENT AND WINGWALL DETAILS, SEE "ABUTMENT DETAILS NO. 1" AND "ABUTMENT DETAILS NO. 2" SHEET.
2. FOR INFORMATION RELATED TO UTILITY OPENINGS AND CASINGS, SEE UTILITY SCHEDULE ON "TYPICAL SECTION" SHEET.
3. FOR WEEP HOLE AND DRAINAGE DETAILS, SEE "STRUCTURE APPROACH DRAINAGE DETAILS" SHEET.

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

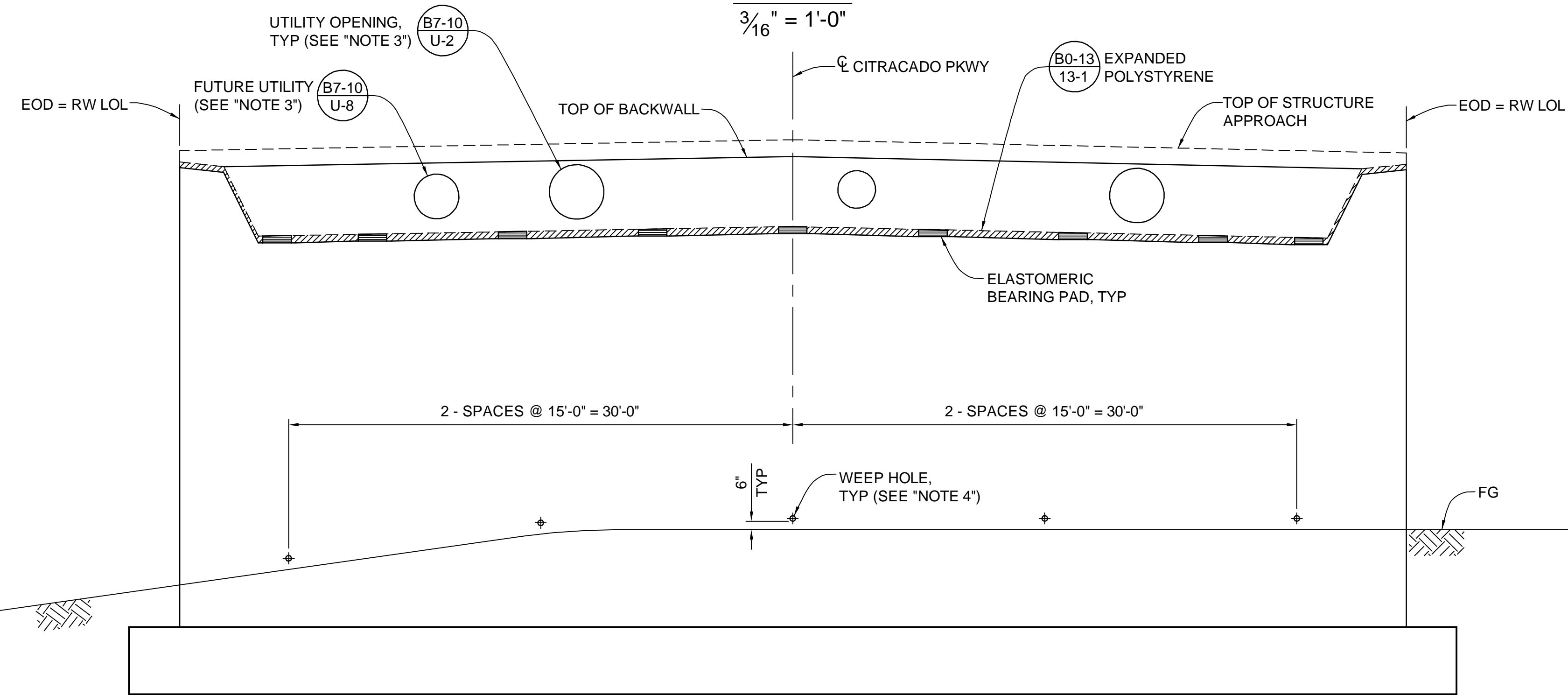


| CONSTRUCTION RECORD |  | REFERENCES | Date | By | REVISIONS |  | App'd | Date | BENCH MARK                                                                                                                                                                                           | SCALE                                    | Office  | Designed By                         | Drawn By | Checked By | Submitted                               | Approved                 | CITY OF ESCONDIDO | DEPARTMENT OF PUBLIC WORKS | Drawing No.       |  |  |
|---------------------|--|------------|------|----|-----------|--|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------|-------------------------------------|----------|------------|-----------------------------------------|--------------------------|-------------------|----------------------------|-------------------|--|--|
| Contractor          |  |            |      |    |           |  |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 842.965 DATUM: NGVD 29. | Horizontal AS SHOWN<br>Vertical AS SHOWN | Traffic | JH                                  | JQ       | JC         |                                         |                          | CITY OF ESCONDIDO | DEPARTMENT OF PUBLIC WORKS |                   |  |  |
| Inspector           |  |            |      |    |           |  |       |      |                                                                                                                                                                                                      |                                          |         | Plans Prepared Under Supervision Of |          |            | By                                      | By                       | CITY OF ESCONDIDO | DEPARTMENT OF PUBLIC WORKS |                   |  |  |
| Date Completed      |  |            |      |    |           |  |       |      |                                                                                                                                                                                                      |                                          |         | T.W. DUDLEY                         |          | 5/21/2015  | Assistant City Engineer of Public Works | Director of Public Works | CITY OF ESCONDIDO | DEPARTMENT OF PUBLIC WORKS | Sheet 23 of 184   |  |  |
|                     |  |            |      |    |           |  |       |      |                                                                                                                                                                                                      |                                          |         |                                     |          |            |                                         |                          | CITRACADO PARKWAY |                            | ABUTMENT 1 LAYOUT |  |  |



**PLAN**

3/16" = 1'-0"



**ELEVATION**

3/16" = 1'-0"

**LEGEND**

- (A) UTILITY IDENTIFICATION (SEE "NOTE 3")
- EXPANDED POLYSTYRENE

**NOTES:**

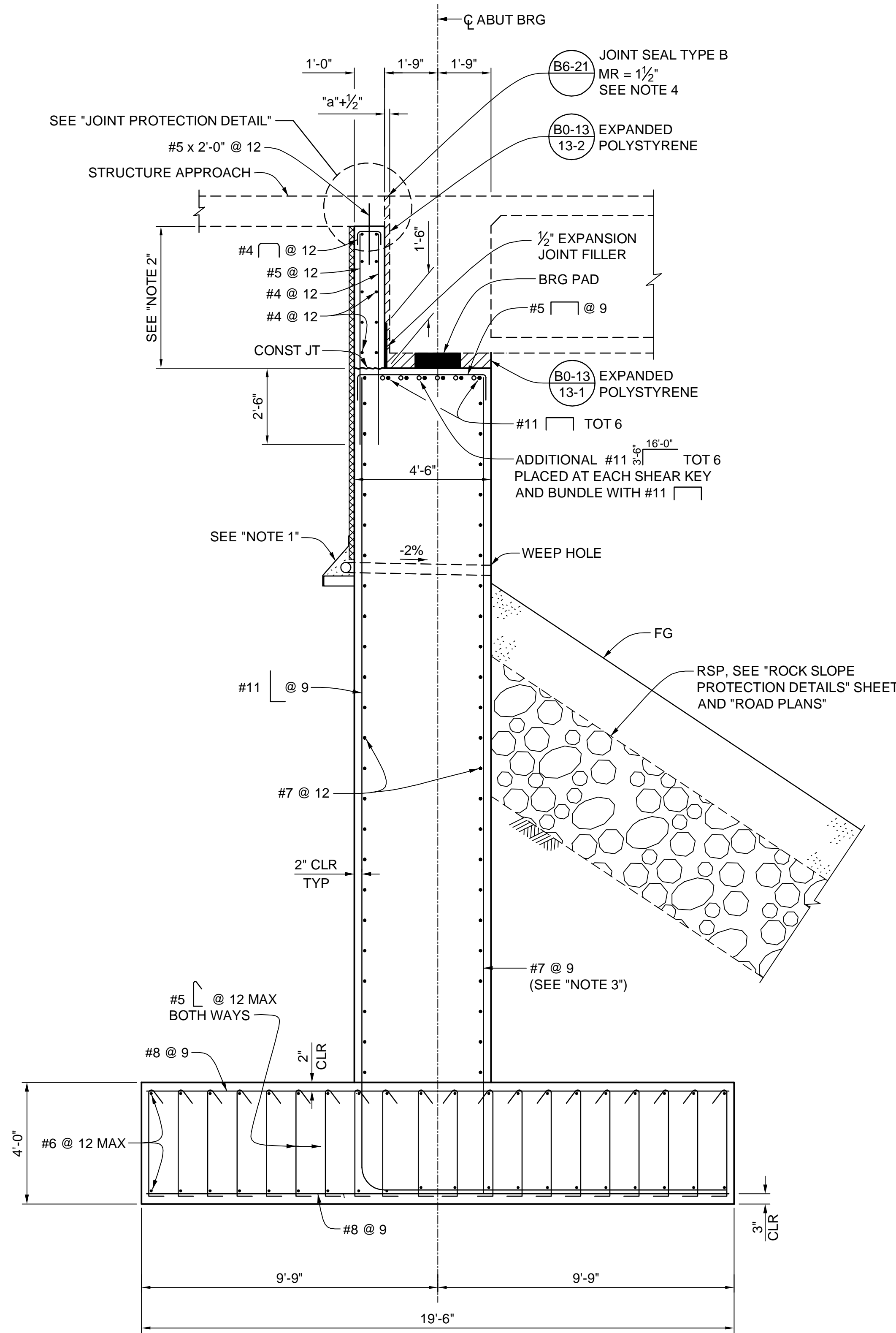
1. FOR ABUTMENT DETAILS, SEE "ABUTMENT DETAILS NO. 1" AND "ABUTMENT DETAILS NO. 2" SHEET.
2. FOR RETAINING WALL DETAILS, SEE "ABUTMENT DETAILS NO. 3" SHEET.
3. FOR INFORMATION RELATED TO UTILITY OPENINGS AND CASINGS, SEE UTILITY SCHEDULE ON "TYPICAL SECTION" SHEET.
4. FOR WEEP HOLE AND DRAINAGE DETAILS, SEE "STRUCTURE APPROACH DRAINAGE DETAILS" SHEET.

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

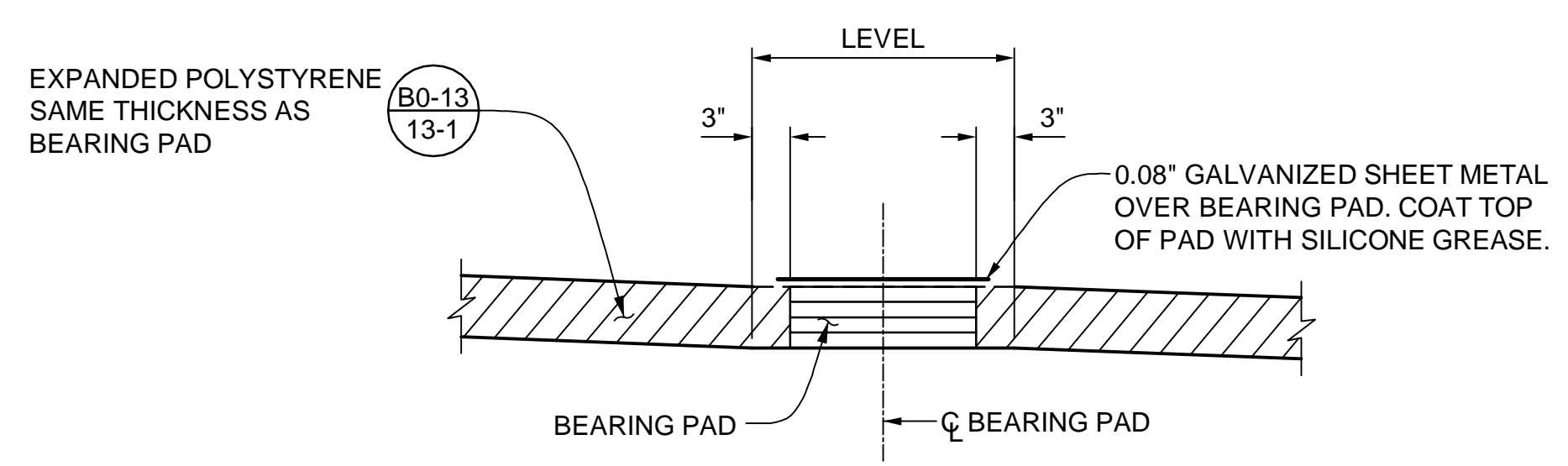
DWG: PA 0274407 - Citracado Parkway\_ORA\_000\_CAD\_008\_Structural\Bridges\0274407-SH1-S-BR-006.dwg

| CONSTRUCTION RECORD |  | REFERENCES | Date | By | REVISIONS |  | App'd | Date | BENCH MARK                                                                                                                                                                                           |  |  | SCALE                                    | Office | Designed By                         | Drawn By | Checked By | Submitted | Approved | CITY OF ESCONDIDO                                           | DEPARTMENT OF PUBLIC WORKS | Drawing No.     |
|---------------------|--|------------|------|----|-----------|--|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|------------------------------------------|--------|-------------------------------------|----------|------------|-----------|----------|-------------------------------------------------------------|----------------------------|-----------------|
| Contractor          |  |            |      |    |           |  |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 842.965 DATUM: NGVD 29. |  |  | Horizontal AS SHOWN<br>Vertical AS SHOWN |        | JH                                  | JQ       | JC         |           |          | CITY OF ESCONDIDO<br>Bridge Plans for:<br>CITRACADO PARKWAY | ABUTMENT 3 LAYOUT          | Sheet 24 of 184 |
| Inspector           |  |            |      |    |           |  |       |      |                                                                                                                                                                                                      |  |  |                                          |        | Plans Prepared Under Supervision Of |          |            | By        | By       |                                                             |                            |                 |
| Date Completed      |  |            |      |    |           |  |       |      |                                                                                                                                                                                                      |  |  |                                          |        | T.W. DUDLEY                         |          |            |           |          |                                                             |                            |                 |

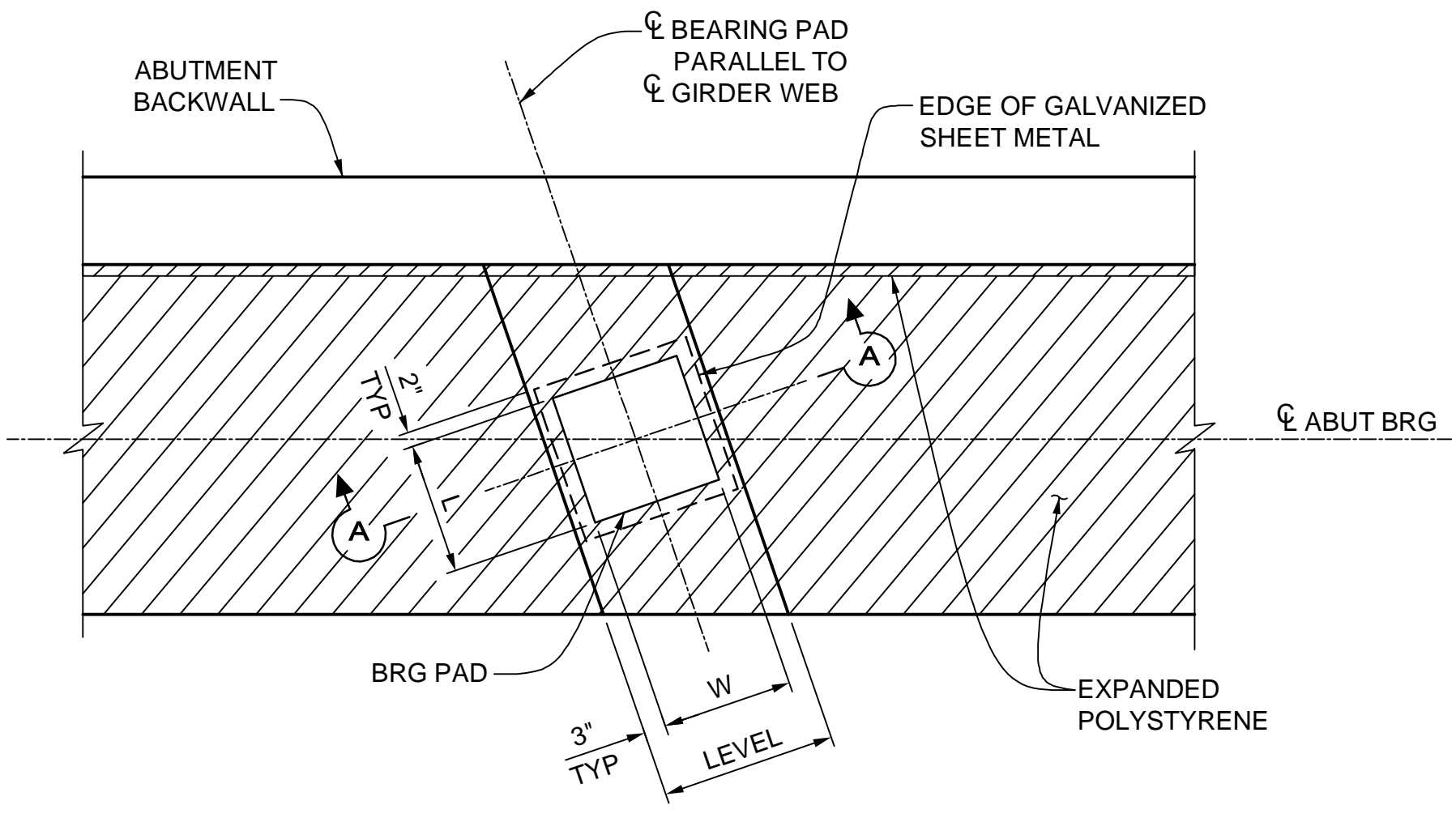




**TYPICAL ABUTMENT SECTION**  
 $\frac{3}{8}'' = 1'-0''$



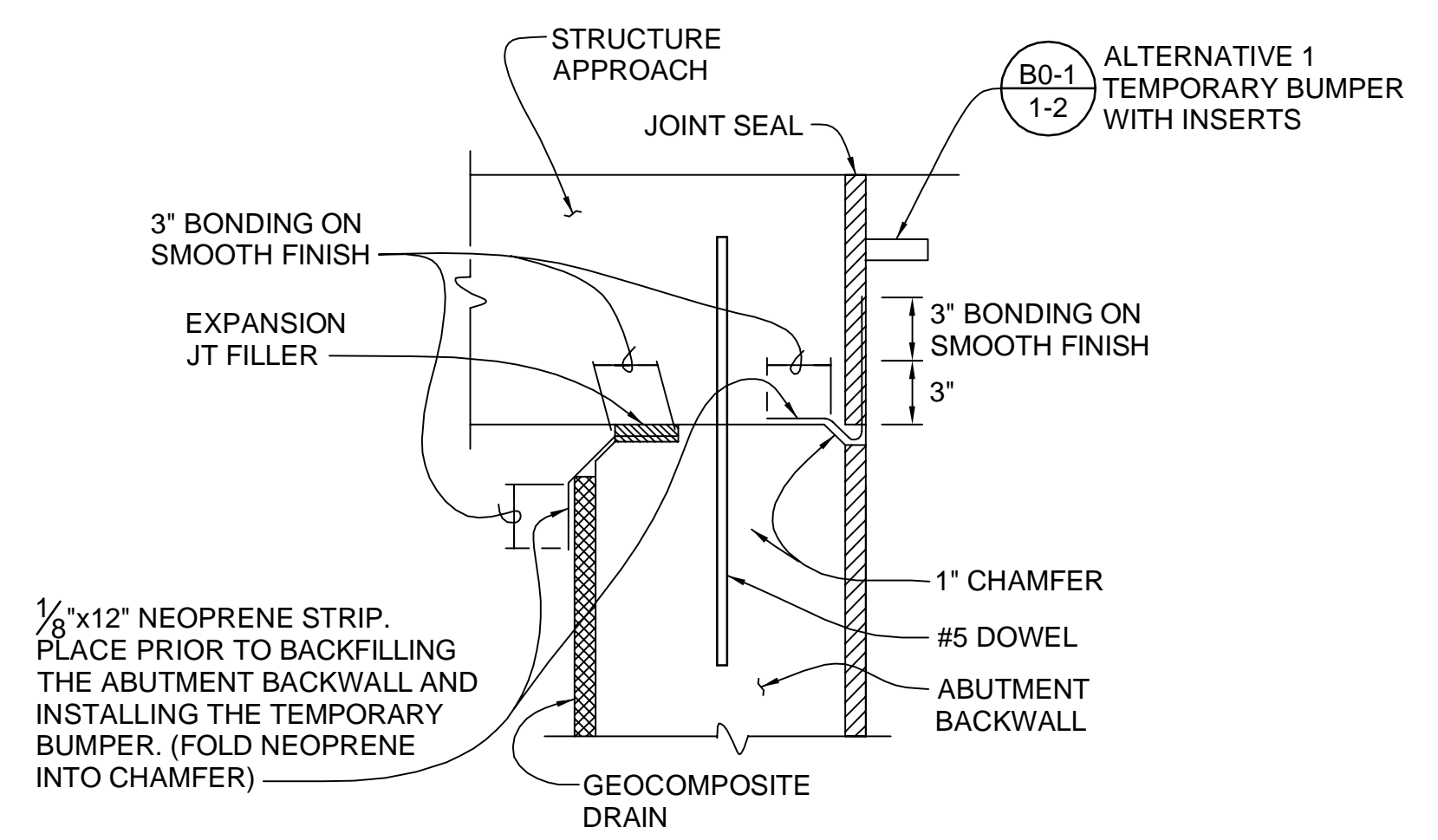
**SECTION A-A**



**PLAN BEARING PAD DETAIL**  
 NO SCALE

**ELASTOMERIC BEARING PAD TABLE**

| REINFORCEMENT TYPE | W (inches) | L (inches) | THICKNESS (inches) |
|--------------------|------------|------------|--------------------|
| STEEL              | 18         | 18         | 4                  |



**JOINT PROTECTION DETAIL**  
 NO SCALE

**LEGEND**

- EXPANDED POLYSTYRENE
- EXPANSION JOINT FILLER

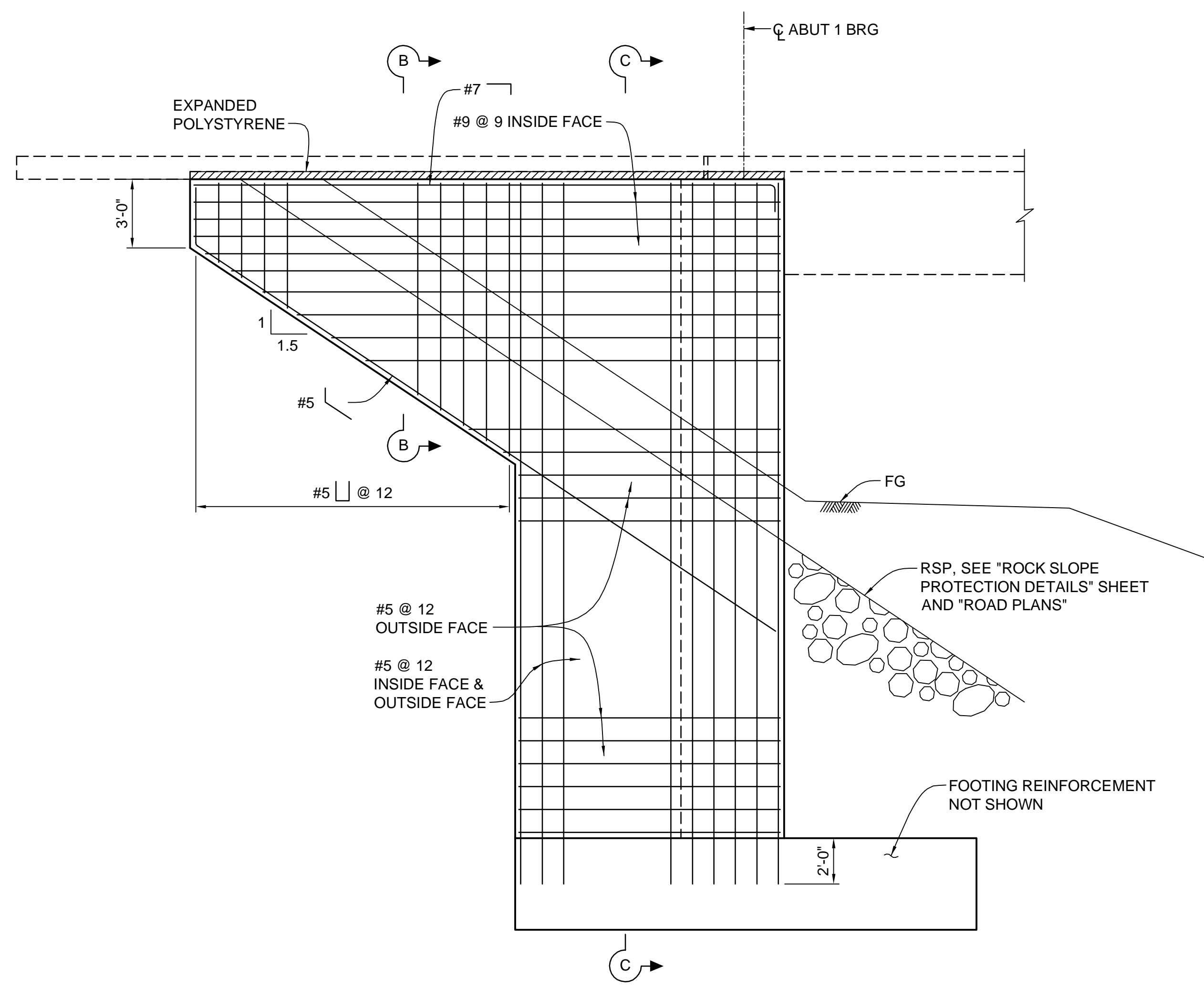
**NOTES:**

1. FOR DRAINAGE DETAILS, SEE "STRUCTURE APPROACH DRAINAGE DETAILS" SHEET.
2. BACKWALL TO BE PLACED AFTER PRESTRESSING IS COMPLETE.
3. TERMINATE TYPICAL ABUTMENT FRONT FACE REINFORCEMENT AT BASE OF SHEAR KEYS.
4. JOINT SEAL SHALL BE CONSTRUCTED CONTINUOUS UNDERNEATH CONCRETE BARRIERS, AND SHALL EXTEND INTO CONCRETE PARAPETS PER "DETAIL A-A" ON THE STANDARD PLAN SHEET.

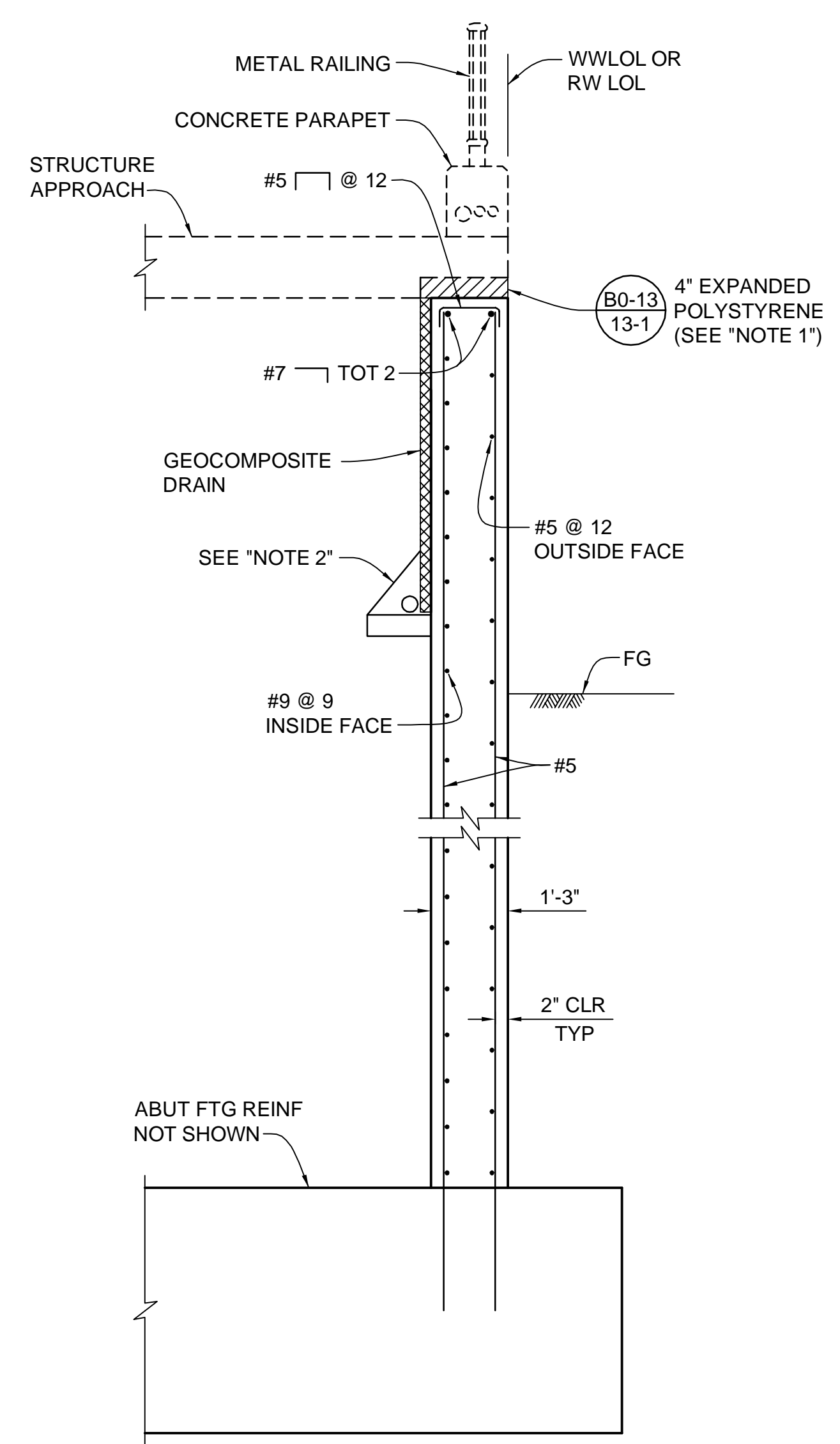
NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



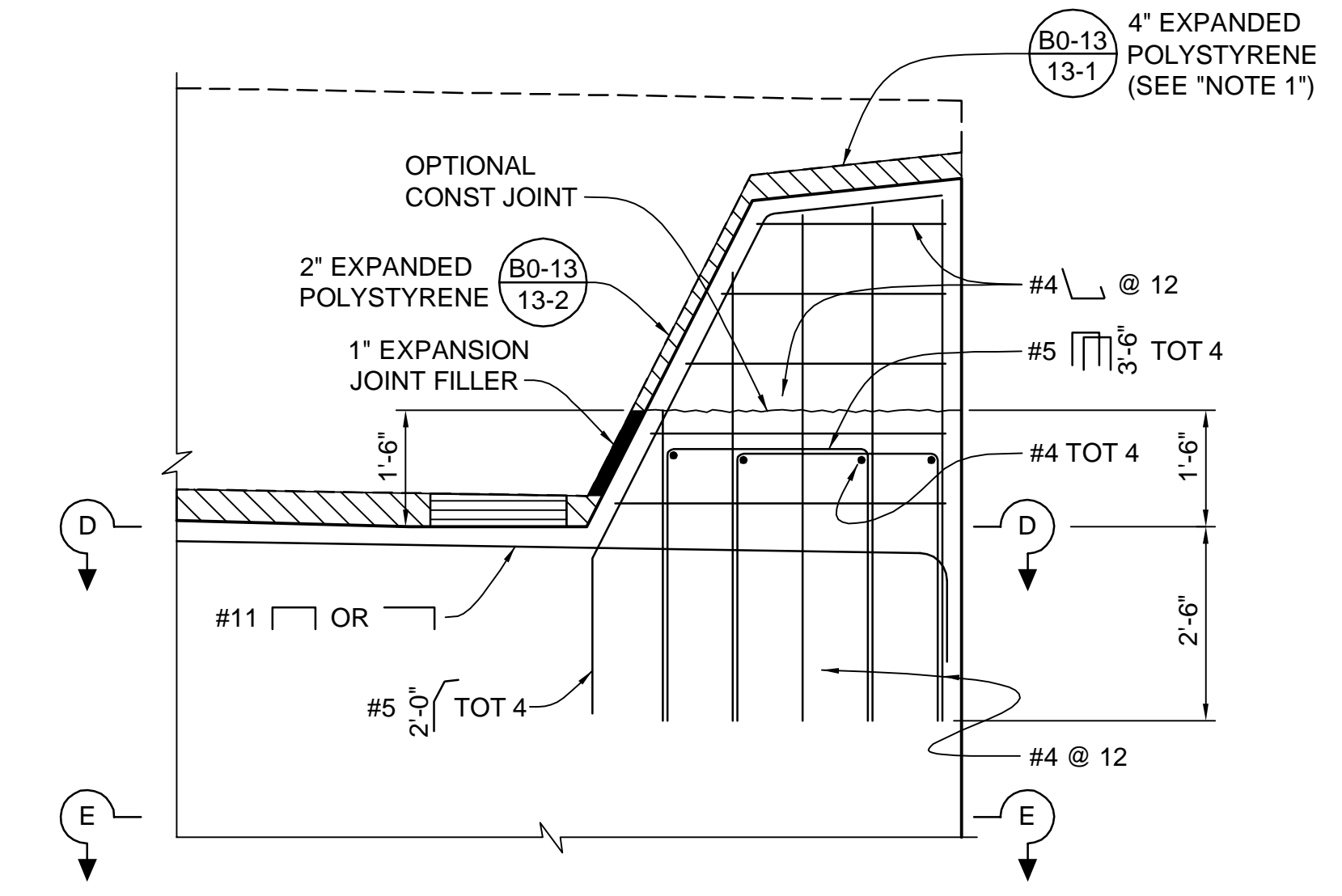
| CONSTRUCTION RECORD | REFERENCES | Date | By | REVISIONS | App'd | Date | BENCH MARK                                                                                                                                                                             | SCALE                                    | Office  | Designed By                                              | Drawn By | Checked By | Submitted | Approved | CITY OF ESCONDIDO                                   | DEPARTMENT OF PUBLIC WORKS           | Drawing No.                                                   |                 |
|---------------------|------------|------|----|-----------|-------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------|----------------------------------------------------------|----------|------------|-----------|----------|-----------------------------------------------------|--------------------------------------|---------------------------------------------------------------|-----------------|
|                     |            |      |    |           |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. DATUM: NGVD 29. | Horizontal AS SHOWN<br>Vertical AS SHOWN | Traffic | JH<br>Plans Prepared Under Supervision Of<br>T.W. DUDLEY | JQ       | JC         |           |          | By _____<br>Assistant City Engineer of Public Works | By _____<br>Director of Public Works | BRIDGE PLANS FOR:<br>CITRACADO PARKWAY ABUTMENT DETAILS NO. 1 | Sheet 25 of 184 |



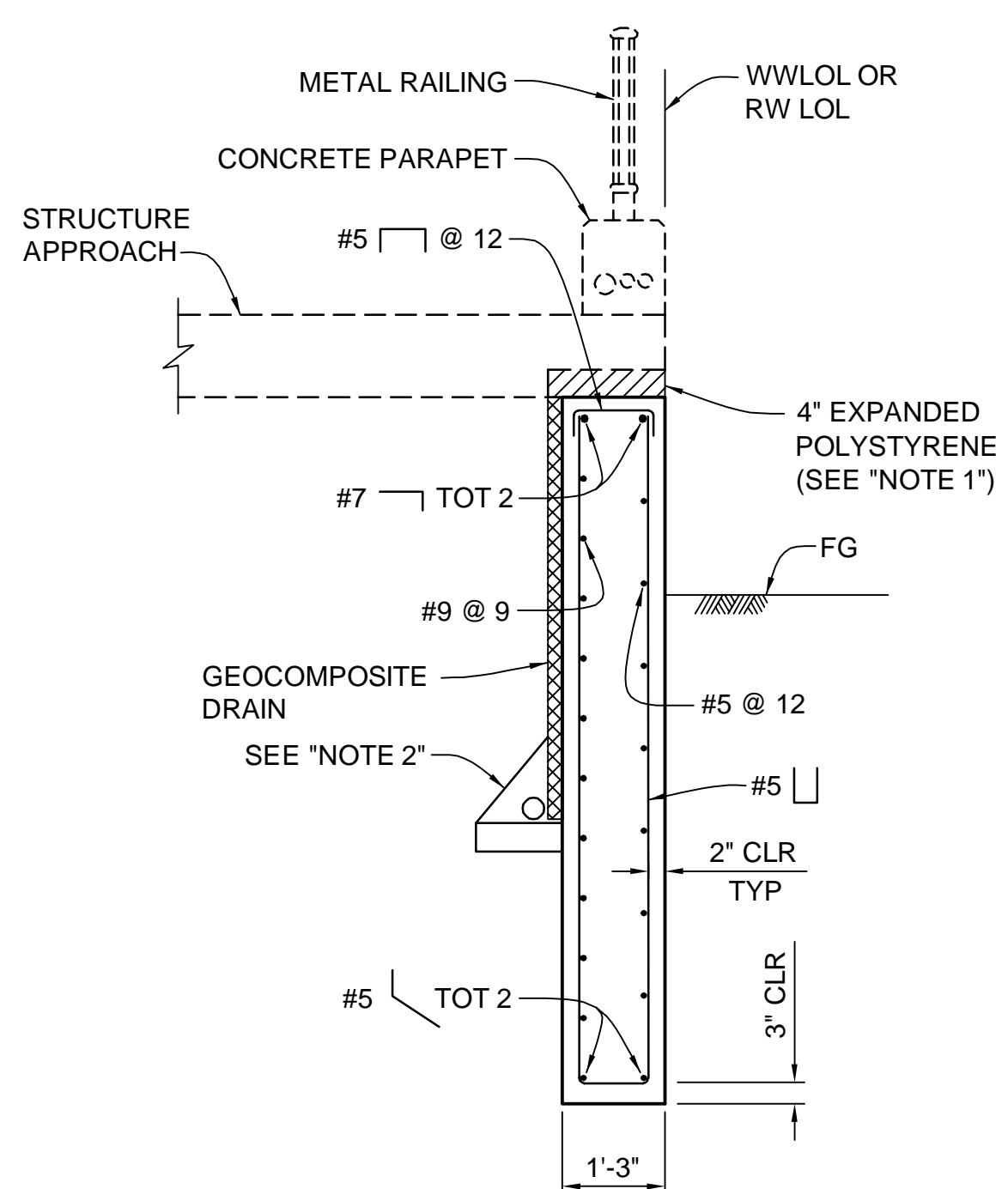
**ABUT 1 WINGWALL ELEVATION**  
1/4" = 1'-0"



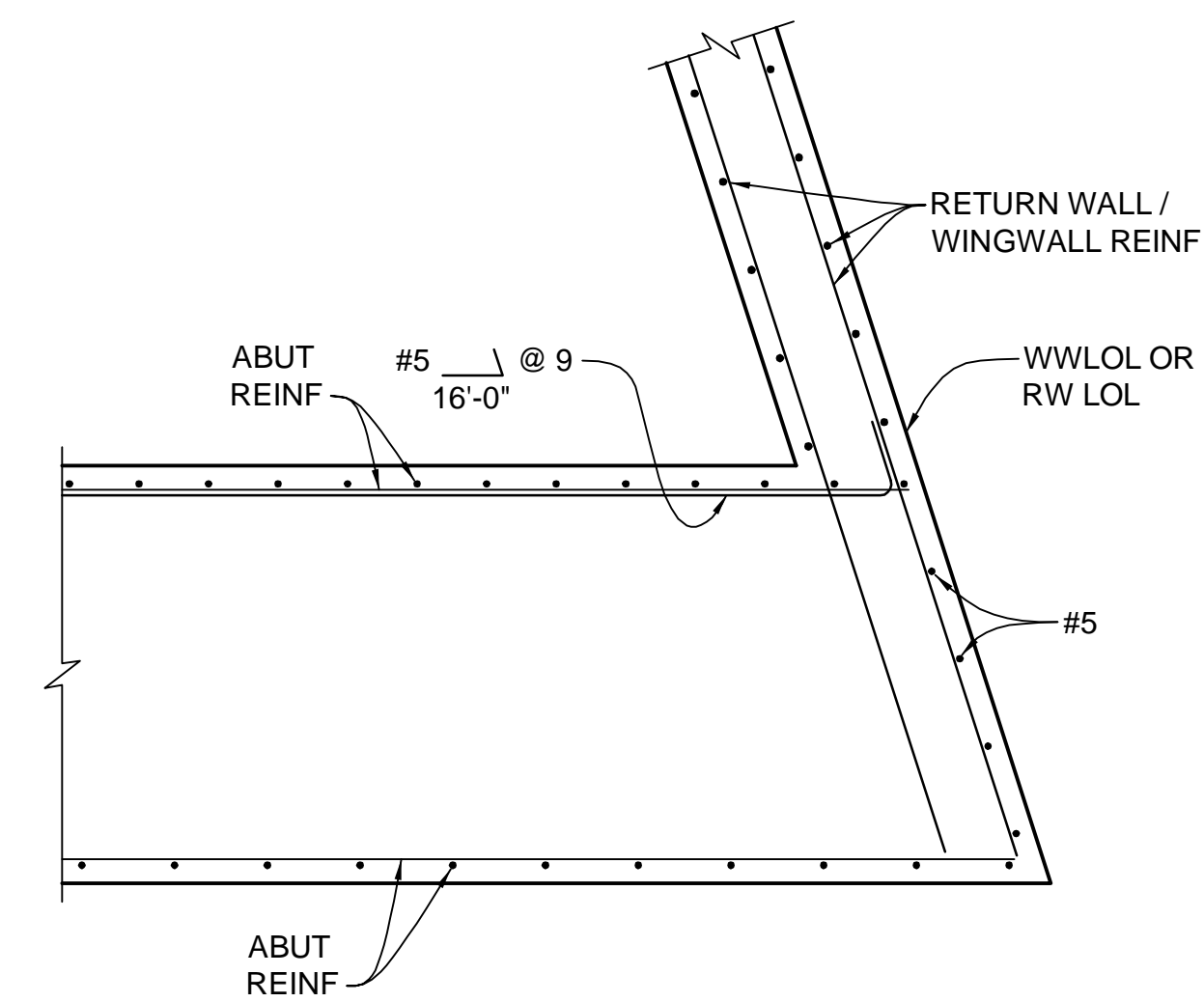
**SECTION C-C**  
1/2" = 1'-0"



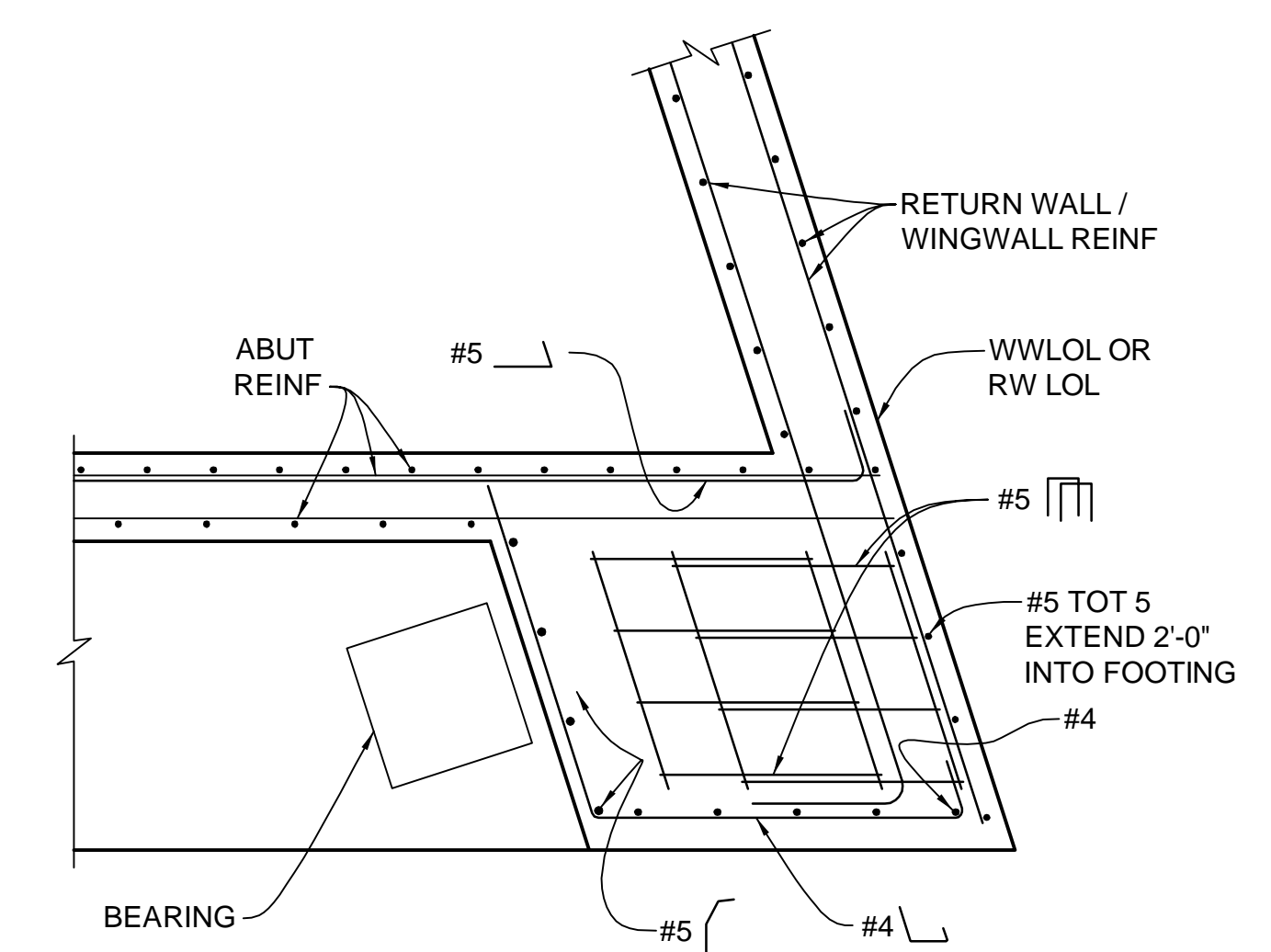
**TYPICAL SHEAR KEY - ELEVATION**  
1/2" = 1'-0"



**SECTION B-B**  
1/2" = 1'-0"



**SECTION E-E**  
1/2" = 1'-0"



**SECTION D-D**  
1/2" = 1'-0"

**LEGEND**

EXPANDED POLYSTYRENE

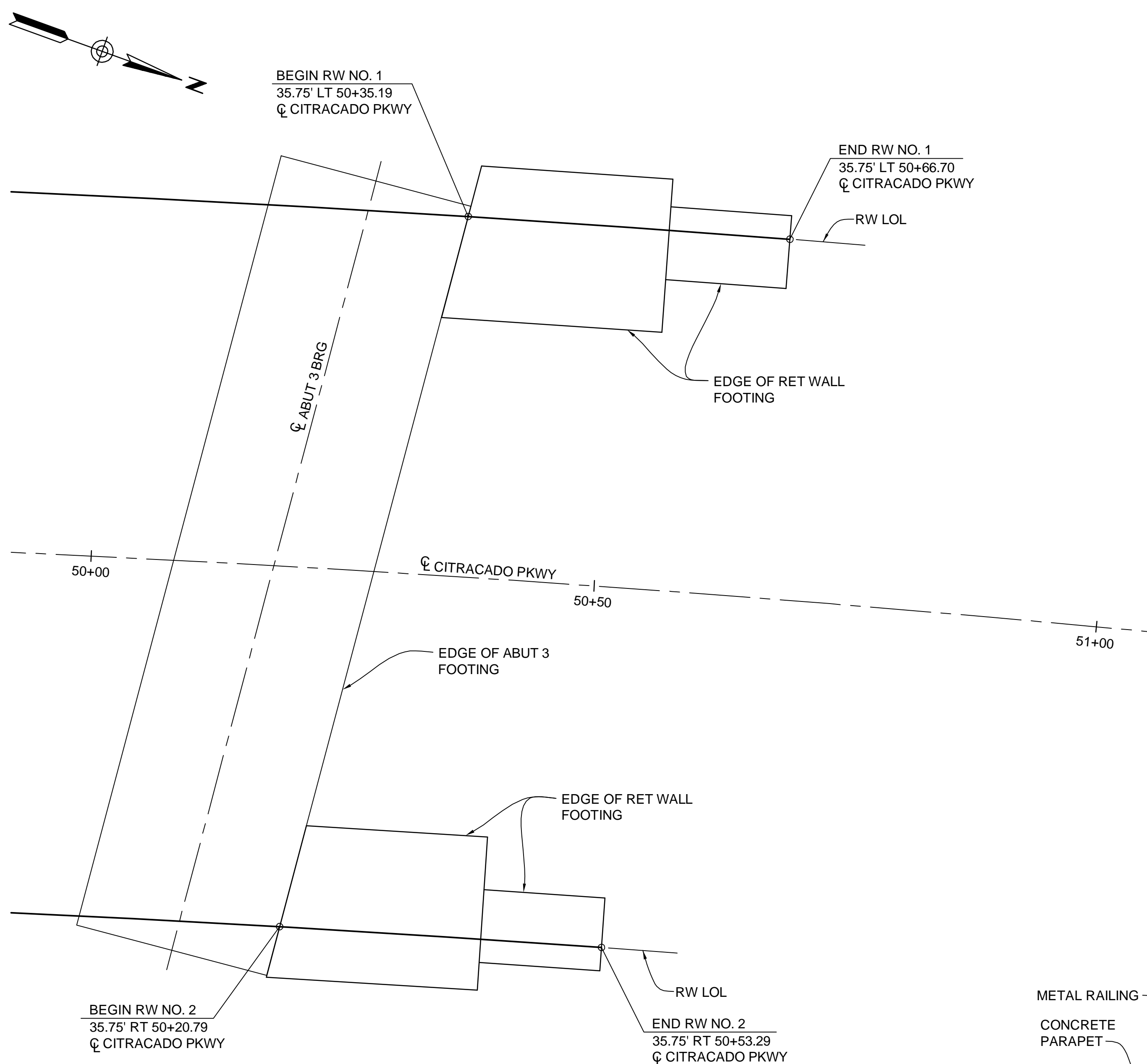
**NOTES:**

1. OUTER 6" OF EXPANDED POLYSTYRENE TO BE REMOVED AFTER CONSTRUCTION.
2. FOR DRAINAGE DETAILS, SEE "STRUCTURE APPROACH DRAINAGE DETAILS" SHEET.

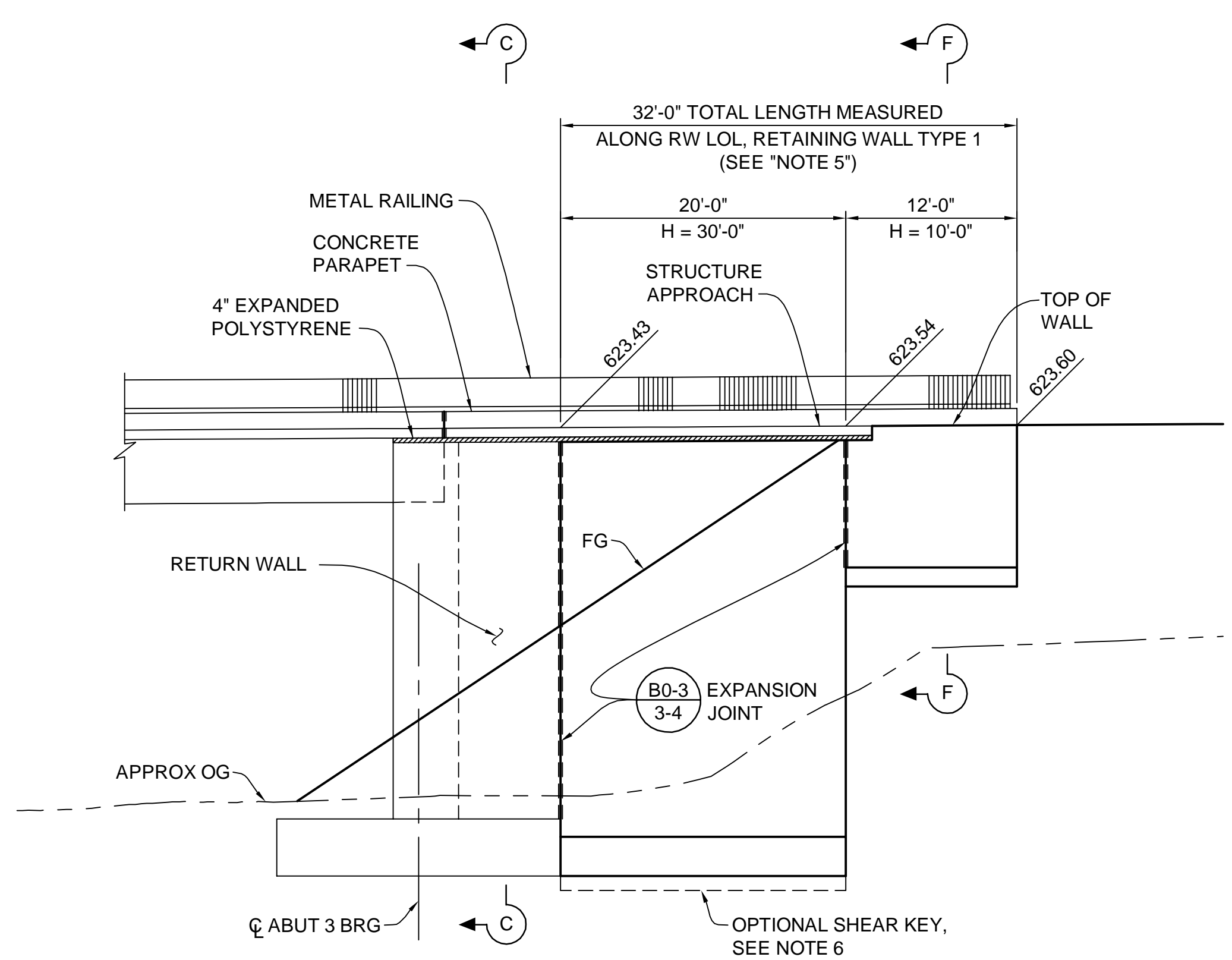
NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

| CONSTRUCTION RECORD | REFERENCES | Date | By | REVISIONS | App'd | Date | BENCH MARK                                                                                                                                                                                           | SCALE                                    | Office  | Designed By                         | Drawn By | Checked By | Submitted                               | Approved                 | CITY OF ESCONDIDO | DEPARTMENT OF PUBLIC WORKS | Drawing No.     |
|---------------------|------------|------|----|-----------|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------|-------------------------------------|----------|------------|-----------------------------------------|--------------------------|-------------------|----------------------------|-----------------|
|                     |            |      |    |           |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 842.965 DATUM: NGVD 29. | Horizontal AS SHOWN<br>Vertical AS SHOWN | Traffic | JH                                  | JQ       | JC         |                                         |                          | Bridge Plans for: |                            |                 |
| Contractor          |            |      |    |           |       |      |                                                                                                                                                                                                      |                                          |         | Plans Prepared Under Supervision Of |          |            | By                                      | By                       | CITRACADO PARKWAY | ABUTMENT DETAILS NO. 2     |                 |
| Inspector           |            |      |    |           |       |      |                                                                                                                                                                                                      |                                          |         | T.W. DUDLEY                         |          |            | Assistant City Engineer of Public Works | Director of Public Works |                   |                            | Sheet 26 of 184 |
| Date Completed      |            |      |    |           |       |      |                                                                                                                                                                                                      |                                          |         |                                     |          |            |                                         |                          |                   |                            |                 |

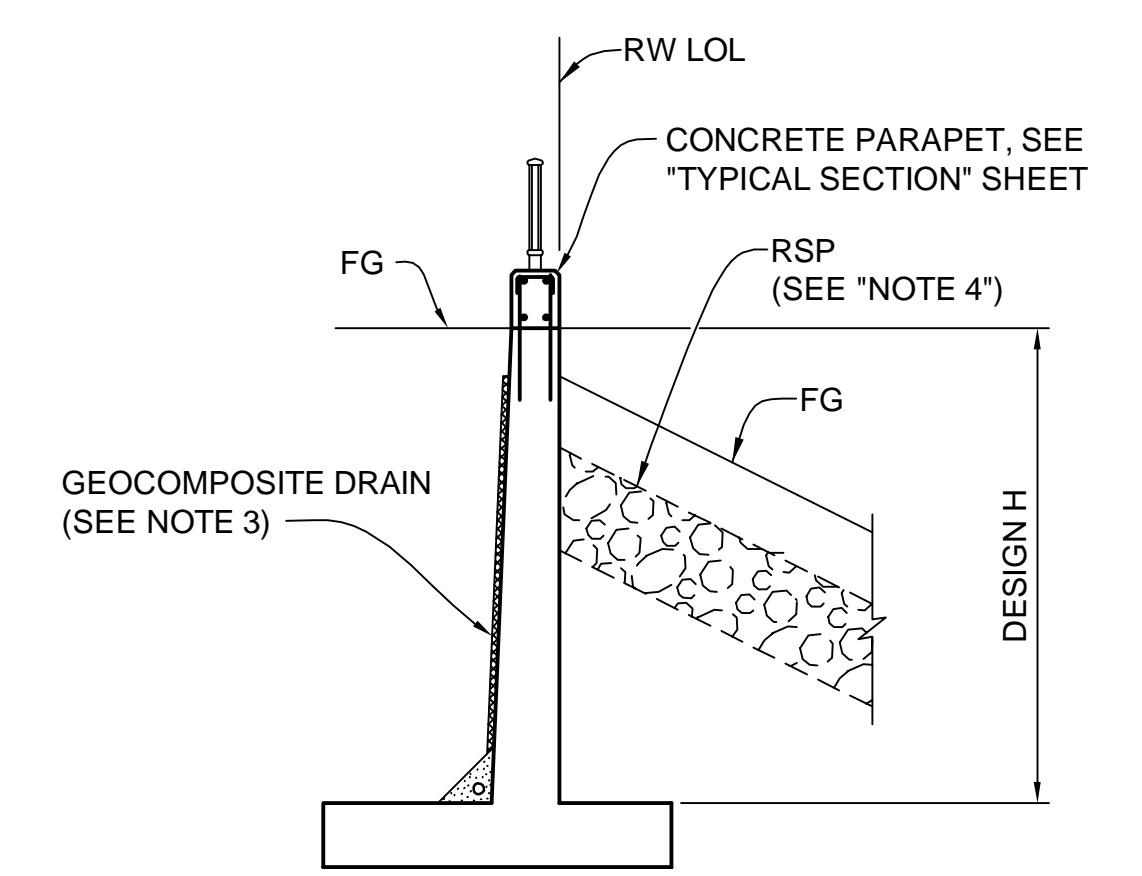




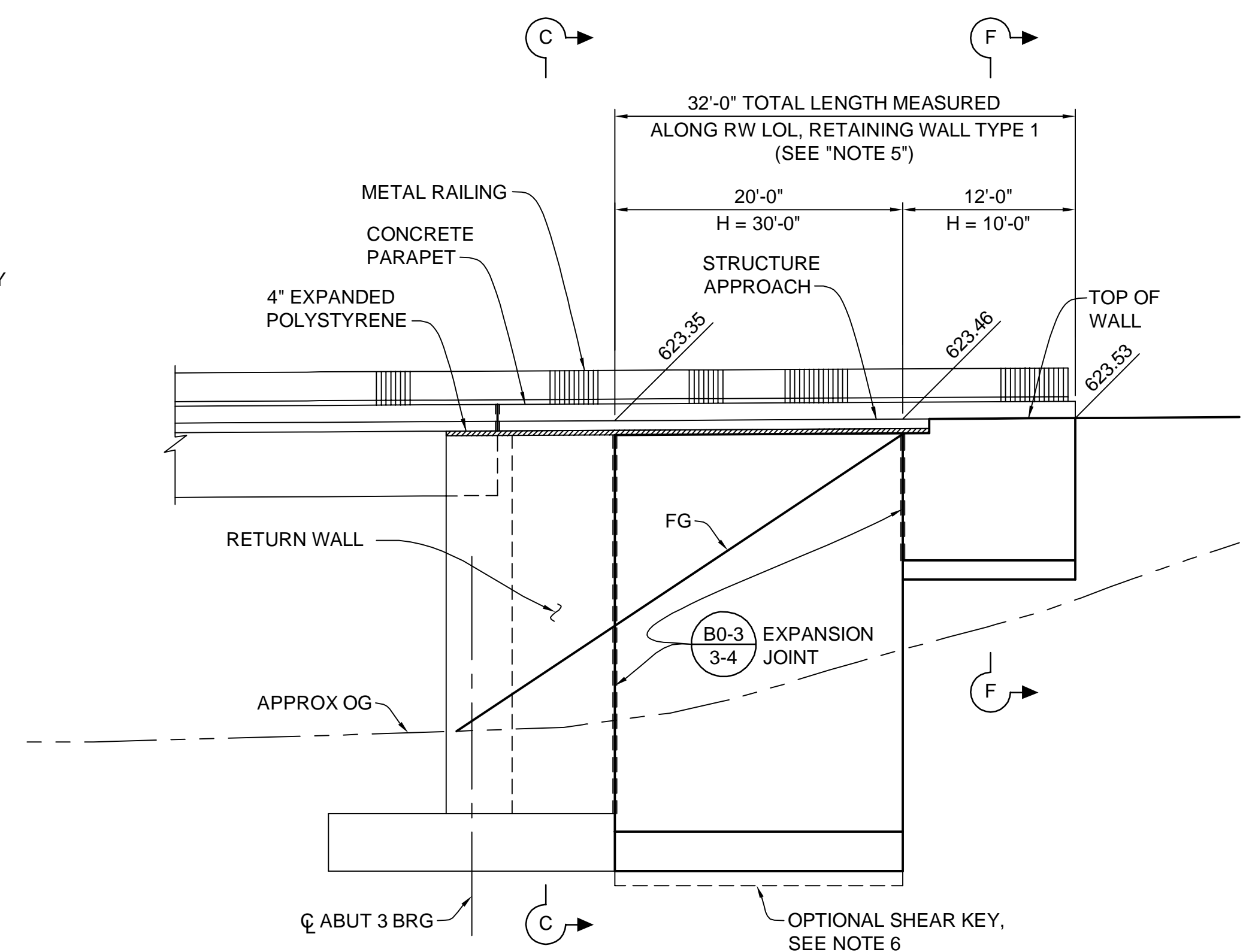
**PLAN**  
1/8" = 1'-0"



**RETAINING WALL NO. 1 DEVELOPED MIRROR ELEVATION**  
1/8" = 1'-0"



**SECTION F-F**  
1/4" = 1'-0"



**RETAINING WALL NO. 2 DEVELOPED ELEVATION**  
1/8" = 1'-0"

**LEGEND**

- EXPANDED POLYSTYRENE
- DENOTES TOP OF WALL ELEVATION AT RWLOL (SEE NOTE 2')

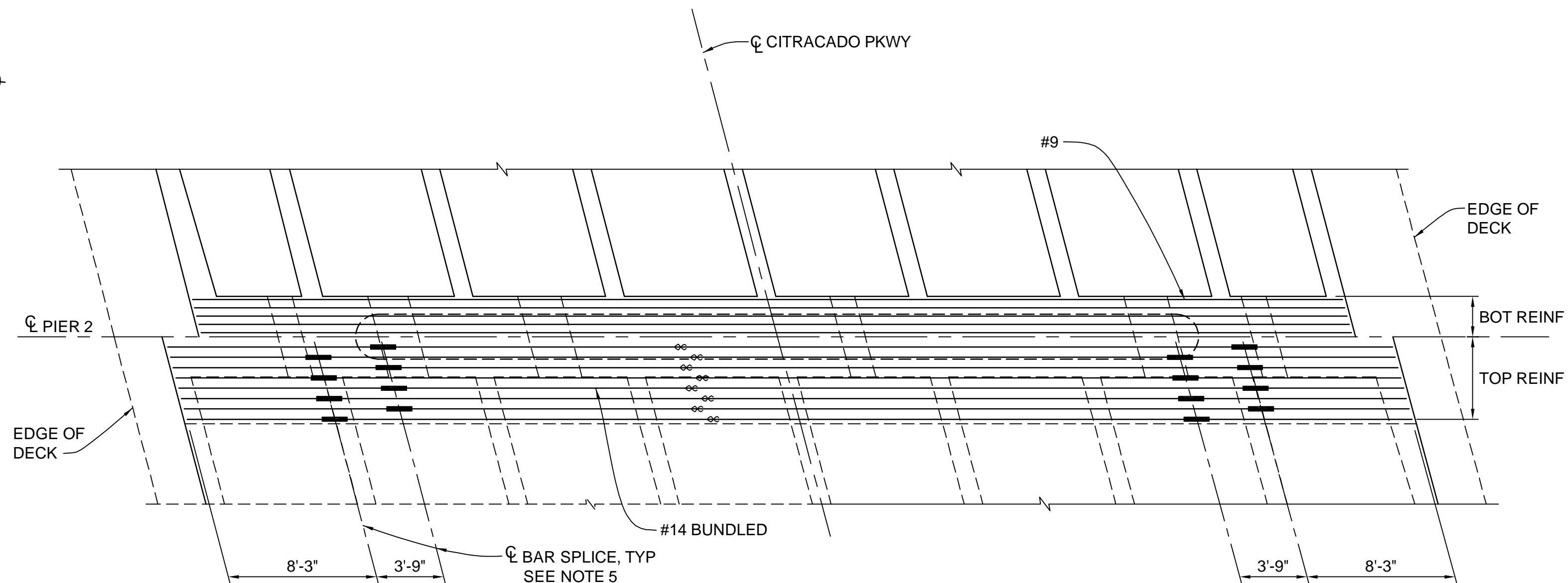
**NOTES:**

1. FOR SECTION C-C, SEE "ABUTMENT DETAILS NO. 2" SHEET.
2. FOR TOP OF WALL DETAILS AT STRUCTURE APPROACH, SEE "STRUCTURE APPROACH TYPE N(30)" SHEET.
3. FOR DRAINAGE DETAILS, SEE "STRUCTURE APPROACH DRAINAGE DETAILS" SHEET.
4. FOR ROCK SLOPE PROTECTION, SEE "ROCK SLOPE PROTECTION DETAILS" SHEET AND "ROAD PLANS".
5. RETAINING WALL SHALL BE IN ACCORDANCE WITH STANDARD PLAN B3-1, UNLESS OTHERWISE NOTED.
6. SHEAR KEY IS NOT REQUIRED IF RETAINING WALL FOOTING IS IN CONTACT WITH BEDROCK.

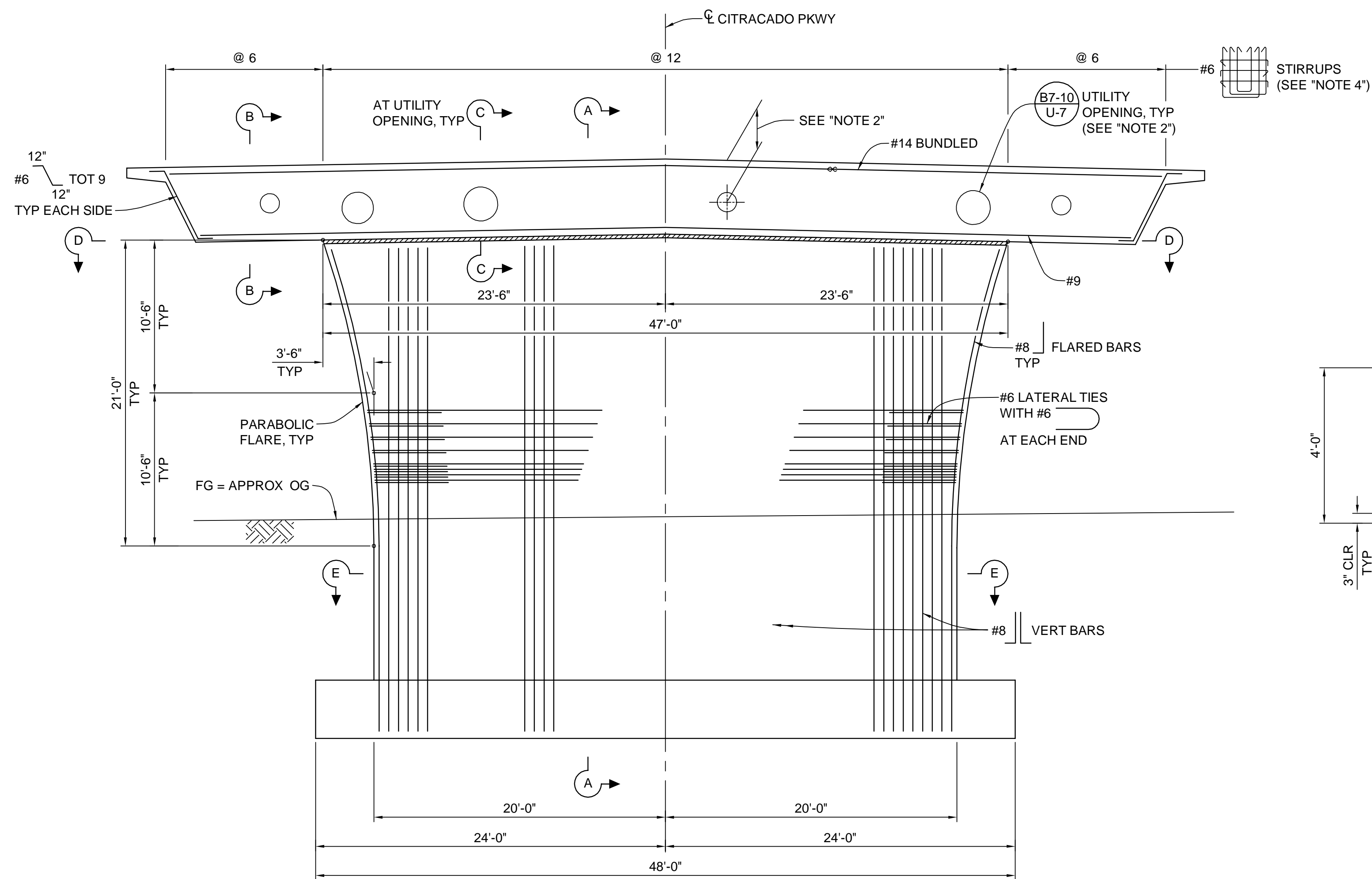
NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

| CONSTRUCTION RECORD |  | REFERENCES | Date | By | REVISIONS | App'd | Date              | BENCH MARK                                                                                                                                                                                           | SCALE                               | Office | Designed By | Drawn By | Checked By     | Submitted | Approved                                | CITY OF ESCONDIDO                                                                  | DEPARTMENT OF PUBLIC WORKS | Drawing No.     |                          |  |
|---------------------|--|------------|------|----|-----------|-------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------|-------------|----------|----------------|-----------|-----------------------------------------|------------------------------------------------------------------------------------|----------------------------|-----------------|--------------------------|--|
| Contractor          |  |            |      |    |           |       |                   | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 642.965 DATUM: NGVD 29. | Horizontal AS SHOWN                 | Filmed | JH          | JQ       | JC             |           |                                         | CITY OF ESCONDIDO<br>Bridge Plans for:<br>CITRACADO PARKWAY ABUTMENT DETAILS NO. 3 |                            | Sheet 27 of 184 |                          |  |
| Inspector           |  |            |      |    |           |       | Vertical AS SHOWN | Traffic                                                                                                                                                                                              | Plans Prepared Under Supervision Of |        |             |          |                |           | By                                      |                                                                                    |                            |                 | By                       |  |
| Date Completed      |  |            |      |    |           |       |                   |                                                                                                                                                                                                      | T.W. DUDLEY                         |        |             |          | Date 5/21/2015 |           | Assistant City Engineer of Public Works |                                                                                    |                            |                 | Director of Public Works |  |

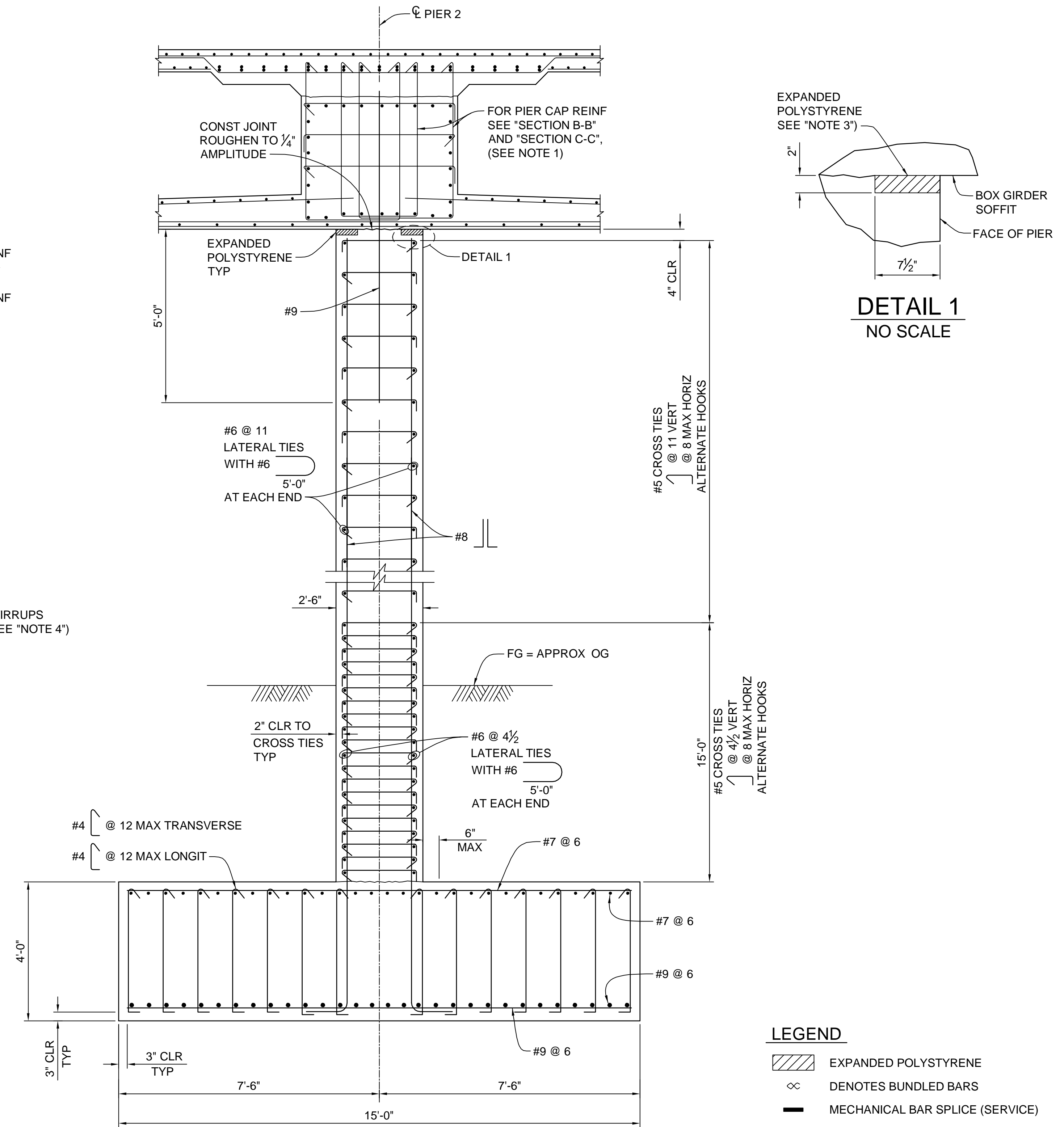




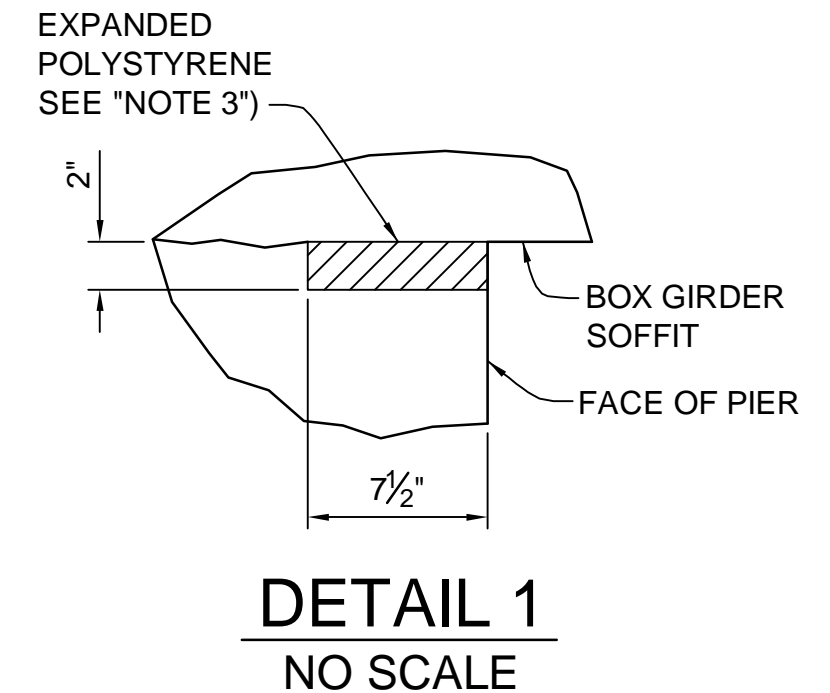
PLAN  
3/16" = 1'-0"



ELEVATION  
3/16" = 1'-0"



SECTION A-A  
1/2" = 1'-0"



DETAIL 1  
NO SCALE

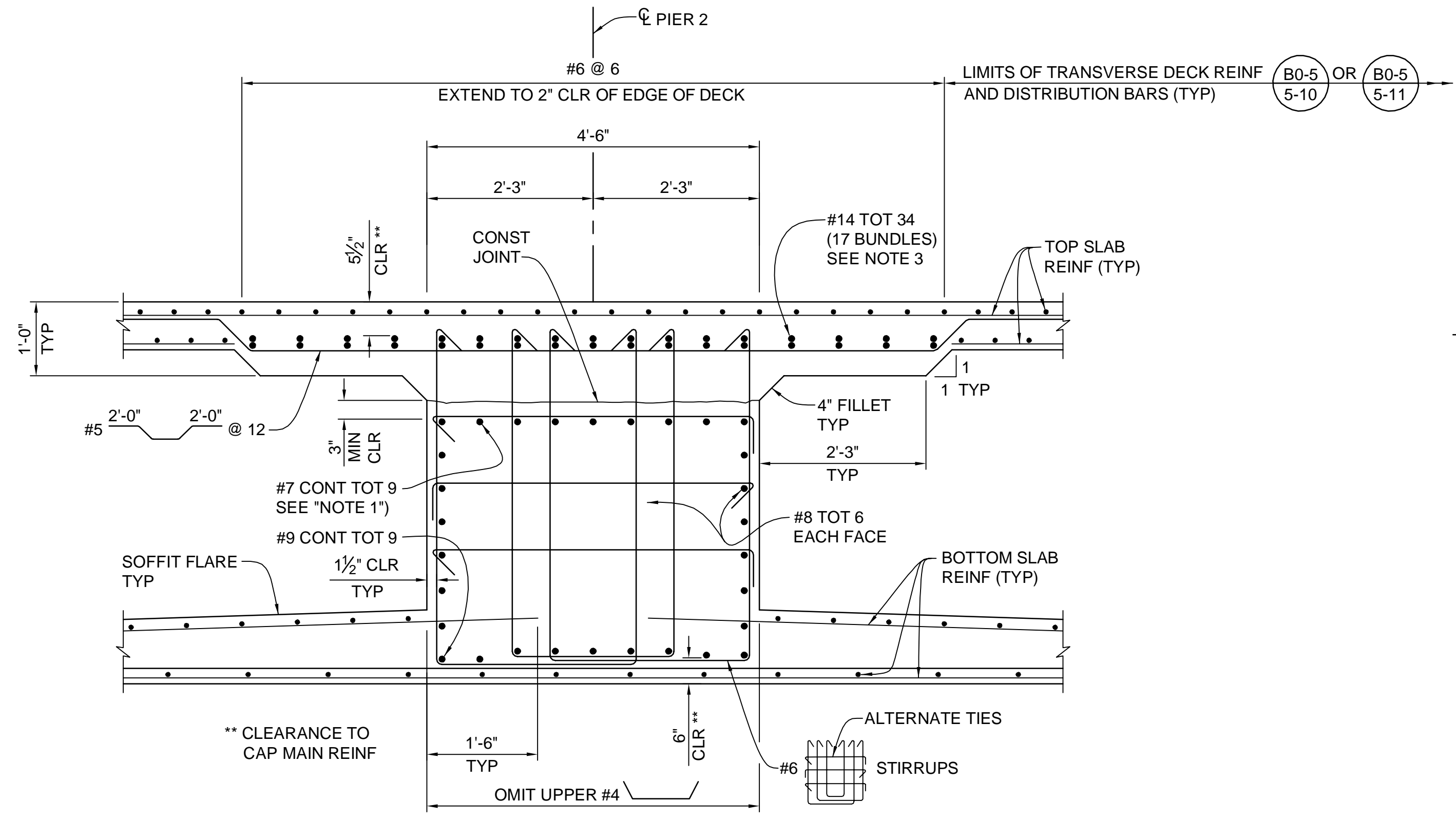
- LEGEND**
- EXPANDED POLYSTYRENE
  - DENOTES BUNDLED BARS
  - MECHANICAL BAR SPLICE (SERVICE)

- NOTES:**
1. FOR "SECTION B-B", "SECTION C-C", "SECTION D-D" & "SECTION E-E", SEE "PIER DETAILS" SHEET.
  2. FOR UTILITY OPENING SIZE AND LOCATION, SEE "TYPICAL SECTION" SHEET.
  3. REMOVE EXPANDED POLYSTYRENE AFTER CONSTRUCTION.
  4. PLACE STIRRUPS NORMAL TO AND SPACE ALONG  $\bar{C}$  PIER 2. LENGTH OF VERTICAL LEGS OF STIRRUP VARIES IN SLOPED PORTION OF EXTERIOR GIRDER.
  5. ONLY ONE BAR SHALL BE SPLICED IN EACH BUNDLE AT ANY LOCATION. BAR SPLICES IN BUNDLED BARS SHALL BE PLACED ON OPPOSITE SIDES OF THE BRIDGE LAYOUT.

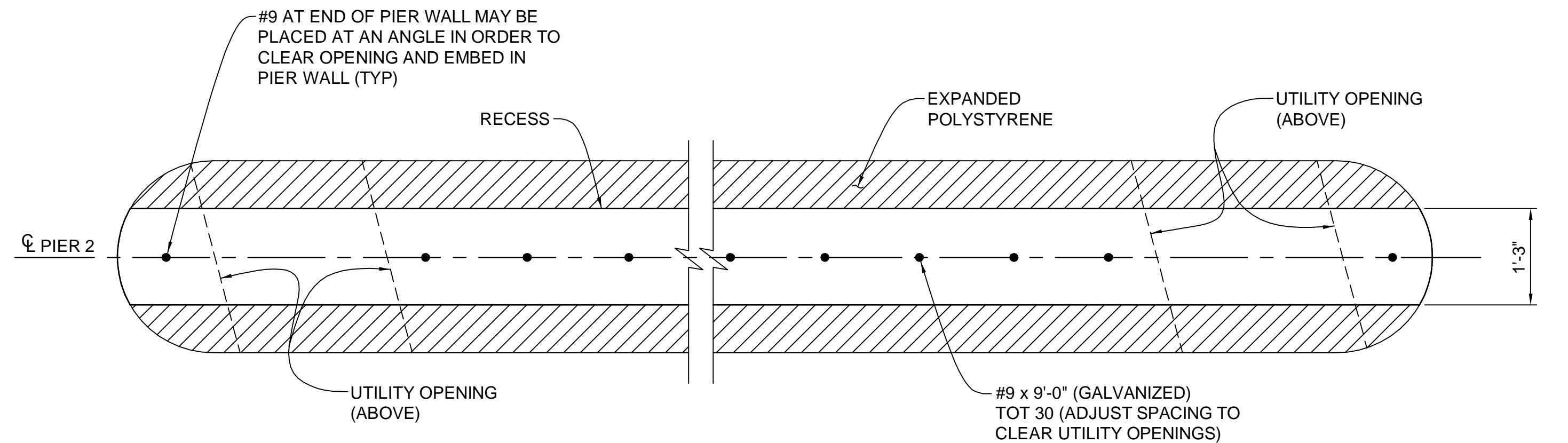
NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

|                     |  |            |  |      |    |           |  |       |      |            |                                                                                                                                                                                                              |                     |         |                                     |          |            |           |          |                   |  |                            |             |                 |
|---------------------|--|------------|--|------|----|-----------|--|-------|------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------|-------------------------------------|----------|------------|-----------|----------|-------------------|--|----------------------------|-------------|-----------------|
| CONSTRUCTION RECORD |  | REFERENCES |  | Date | By | REVISIONS |  | App'd | Date | BENCH MARK |                                                                                                                                                                                                              | SCALE               | Office  | Designed By                         | Drawn By | Checked By | Submitted | Approved | CITY OF ESCONDIDO |  | DEPARTMENT OF PUBLIC WORKS | Drawing No. |                 |
| Contractor          |  |            |  |      |    |           |  |       |      |            | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INTERSECTION OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 542.965 DATUM: NGVD 29. | Horizontal AS SHOWN | Filmed  | JH                                  | JQ       | JC         |           |          |                   |  | Bridge Plans for:          |             |                 |
| Inspector           |  |            |  |      |    |           |  |       |      |            |                                                                                                                                                                                                              | Vertical AS SHOWN   | Traffic | Plans Prepared Under Supervision Of |          |            |           |          |                   |  | CITRACADO PARKWAY          | PIER LAYOUT | Sheet 28 of 184 |
| Date Completed      |  |            |  |      |    |           |  |       |      |            |                                                                                                                                                                                                              |                     |         | T.W. DUDLEY                         |          |            |           |          |                   |  |                            |             |                 |

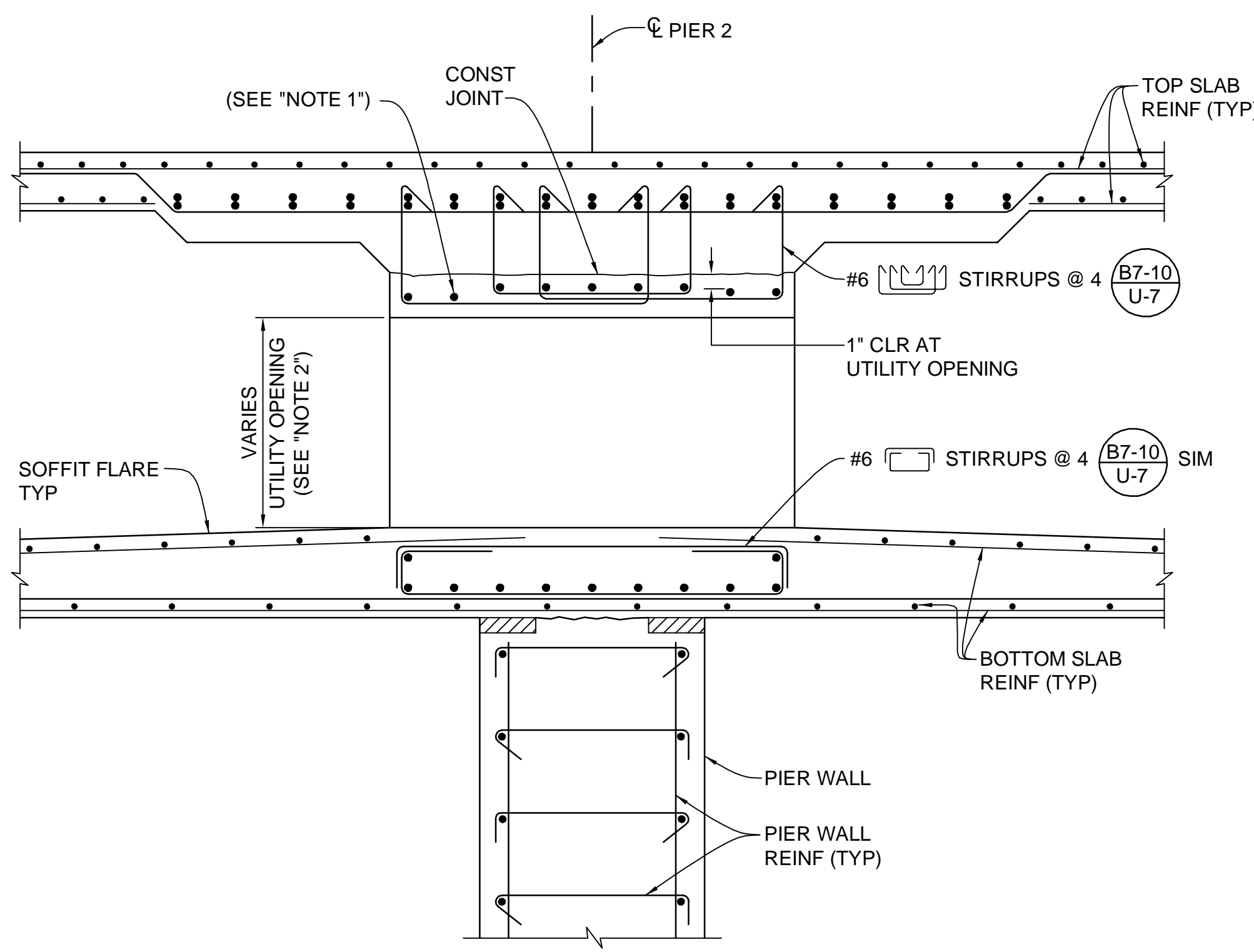




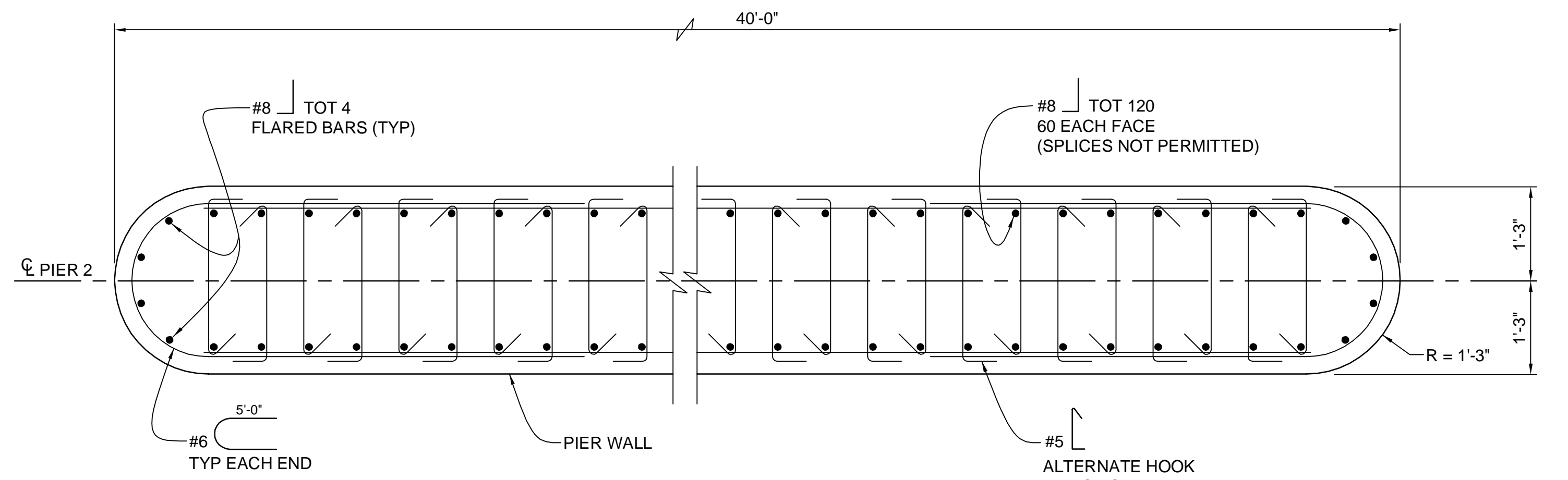
**SECTION B-B**  
3/4" = 1'-0"



**SECTION D-D**  
3/4" = 1'-0"



**SECTION C-C**  
3/4" = 1'-0"



**SECTION E-E**  
3/4" = 1'-0"

**LEGEND**  
EXPANDED POLYSTYRENE

- NOTES:**
- #7 CONT MAY REQUIRE A SLIGHT BEND IN ORDER TO CLEAR PRESTRESSING DUCT IN GIRDER AND CLEAR UTILITY OPENING.
  - FOR UTILITY OPENING SIZE AND LOCATION, SEE "TYPICAL SECTION" SHEET.
  - SEE PLAN ON "PIER LAYOUT" SHEET FOR MECHANICAL BAR SPLICE PLACEMENT DETAILS.

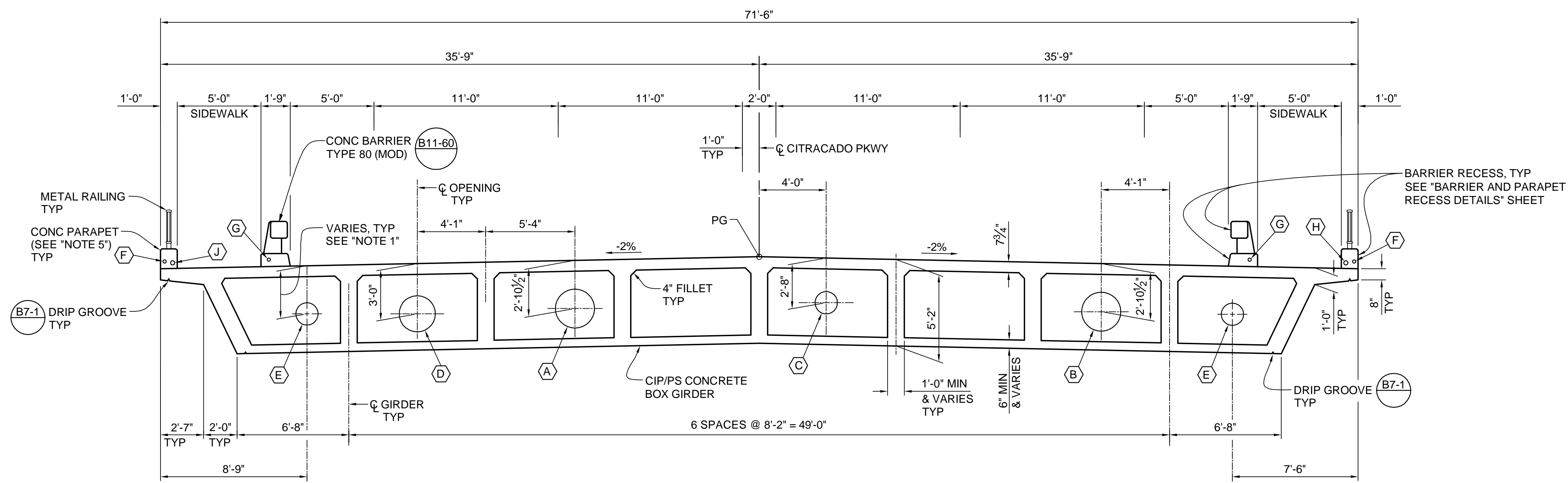
NOTE:  
FOR INFORMATION NOT SHOWN, SEE "SECTION B-B".  
NOT ALL UTILITY OPENING REINFORCEMENT SHOWN, SEE  
FOR ADDITIONAL REINFORCEMENT.

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL  
CONTROLLING FIELD DIMENSIONS BEFORE  
ORDERING OR FABRICATING ANY MATERIAL.

DWG: PA 02274407 - Citracado Parkway\_ORA\_000\_CAD\008\_Structural\Bridges\0274407-SH1-S-BR-011.dwg

| CONSTRUCTION RECORD | REFERENCES | Date | By | REVISIONS | App'd | Date | BENCH MARK                                                                                                                                                                                           | SCALE                                    | Office  | Designed By                         | Drawn By | Checked By | Submitted                               | Approved                 | CITY OF ESCONDIDO | DEPARTMENT OF PUBLIC WORKS | Drawing No.     |
|---------------------|------------|------|----|-----------|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------|-------------------------------------|----------|------------|-----------------------------------------|--------------------------|-------------------|----------------------------|-----------------|
|                     |            |      |    |           |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 842.965 DATUM: NGVD 29. | Horizontal AS SHOWN<br>Vertical AS SHOWN | Traffic | JH                                  | JQ       | JC         |                                         |                          | Bridge Plans for: |                            |                 |
| Contractor          |            |      |    |           |       |      |                                                                                                                                                                                                      |                                          |         | Plans Prepared Under Supervision Of |          |            | By                                      | By                       | CITRACADO PARKWAY | PIER DETAILS               |                 |
| Inspector           |            |      |    |           |       |      |                                                                                                                                                                                                      |                                          |         | T.W. DUDLEY                         |          |            | Assistant City Engineer of Public Works | Director of Public Works |                   |                            | Sheet 29 of 184 |
| Date Completed      |            |      |    |           |       |      |                                                                                                                                                                                                      |                                          |         |                                     |          |            |                                         |                          |                   |                            |                 |

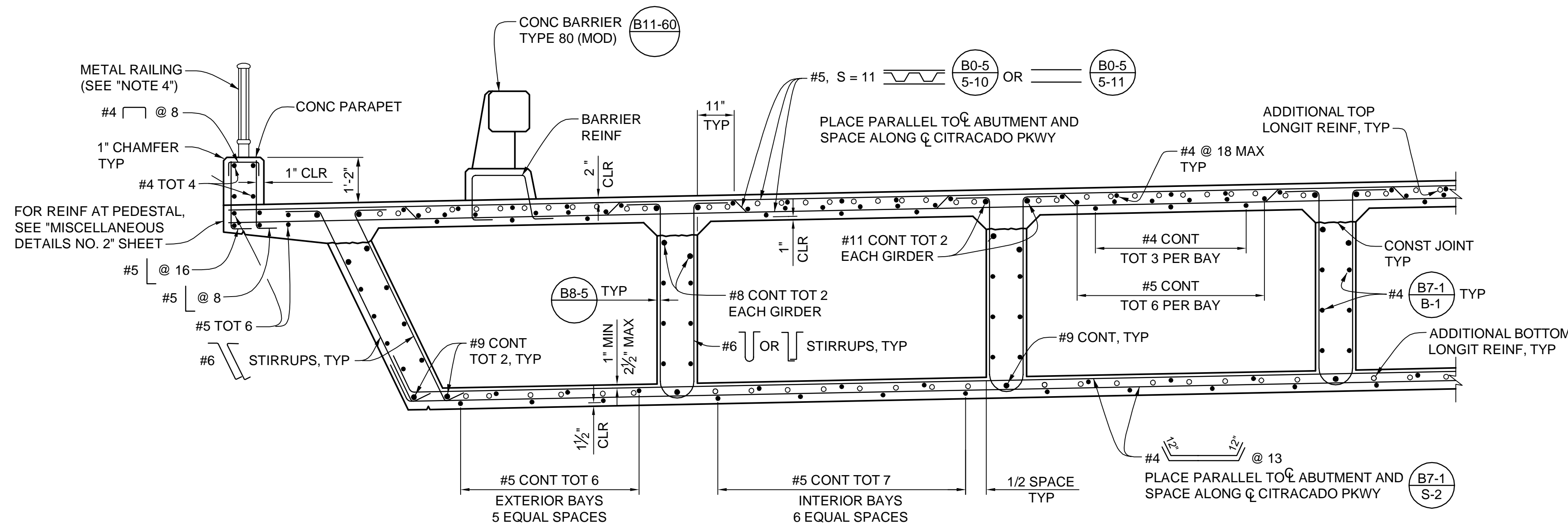




**TYPICAL SECTION**  
1/4" = 1'-0"

**UTILITY SCHEDULE**

| ID | OPENING SIZE |        |        | DESCRIPTION                        | REMARKS    |
|----|--------------|--------|--------|------------------------------------|------------|
|    | ABUT 1       | PIER 2 | ABUT 3 |                                    |            |
| A  | 39"Ø         | 28"Ø   | 39"Ø   | 24"Ø WATER IN 34"Ø CASING          | SEE NOTE 2 |
| B  | 39"Ø         | 28"Ø   | 39"Ø   | FUTURE 24"Ø WATER                  |            |
| C  | 27"Ø         | 16"Ø   | 27"Ø   | 12"Ø RECYCLED WATER IN 22"Ø CASING | SEE NOTE 2 |
| D  | 32"Ø         | 26"Ø   | 32"Ø   | FUTURE UTILITY IN 24"Ø CASING      | SEE NOTE 3 |
| E  | 24"Ø         | 16"Ø   | -      | 12"Ø DRAIN PIPE IN 16"Ø CASING     | SEE NOTE 3 |
| F  | -            | -      | -      | 1 1/2"Ø CONDUIT (STREET LIGHTING)  |            |
| G  | -            | -      | -      | 2"Ø CONDUIT (FUTURE UTILITY)       |            |
| H  | -            | -      | -      | 3"Ø CONDUIT (IRRIGATION CONTROL)   |            |
| J  | -            | -      | -      | 2"Ø TRAFFIC SIGNAL INTERCONNECT    |            |



**LEGEND**  
○ INDICATES ADDITIONAL LONGITUDINAL REINFORCEMENT. SEE "GIRDER REINFORCEMENT" SHEET FOR DETAILS.

**PART TYPICAL SECTION**  
1/2" = 1'-0"

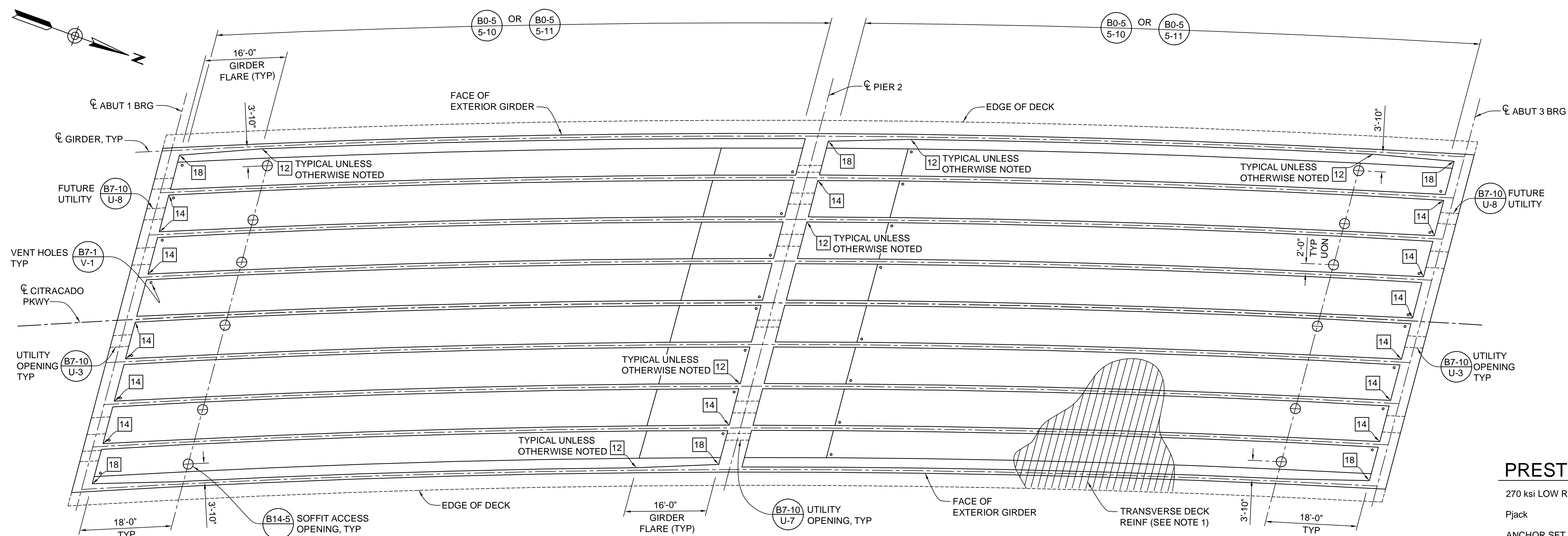
- NOTES:**
- FOR DECK DRAINAGE DETAILS, SEE "MISCELLANEOUS DETAILS NO. 1" SHEET.
  - FOR 22" AND 34"Ø CASING AND WATER LINE SUPPORT DETAILS, SEE "ROAD PLANS".
  - FOR 16" AND 24"Ø CASING DETAILS, SEE (B7-10 U-8), CASING TO EXTEND 9'-6" BEYOND END OF APPROACH SLAB.
  - FOR METAL RAILING DETAILS, SEE "METAL RAILING DETAILS" SHEET.
  - PROVIDE OPEN JOINT IN CONCRETE PARAPET AT BB / EB. WIDTH OF OPEN JOINT TO MATCH DECK JOINT WIDTH.
  - BOTTOM SLAB REINFORCEMENT TO BE ADJUSTED TO ACCOMMODATE SOFFIT ACCESS OPENING.

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

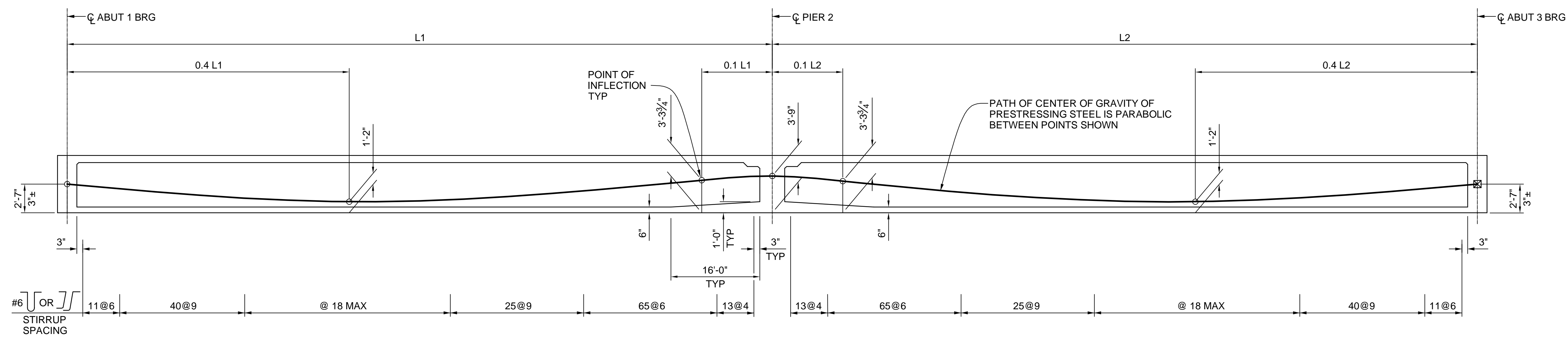


| CONSTRUCTION RECORD | REFERENCES | Date | By | REVISIONS | App'd | Date | BENCH MARK                                                                                                                                                                             | SCALE                                    | Office  | Designed By                         | Drawn By | Checked By | Submitted | Approved | CITY OF ESCONDIDO | DEPARTMENT OF PUBLIC WORKS | Drawing No.     |  |
|---------------------|------------|------|----|-----------|-------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------|-------------------------------------|----------|------------|-----------|----------|-------------------|----------------------------|-----------------|--|
|                     |            |      |    |           |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. DATUM: NGVD 29. | Horizontal AS SHOWN<br>Vertical AS SHOWN | Traffic | JH                                  | JQ       | JC         |           |          |                   |                            |                 |  |
| Contractor          |            |      |    |           |       |      |                                                                                                                                                                                        |                                          |         | Plans Prepared Under Supervision Of |          |            |           |          | Bridge Plans for: |                            |                 |  |
| Inspector           |            |      |    |           |       |      |                                                                                                                                                                                        |                                          |         | T.W. DUDLEY                         |          |            |           |          | CITRACADO PARKWAY |                            |                 |  |
| Date Completed      |            |      |    |           |       |      |                                                                                                                                                                                        |                                          |         |                                     |          |            |           |          | TYPICAL SECTION   |                            | Sheet 30 of 184 |  |

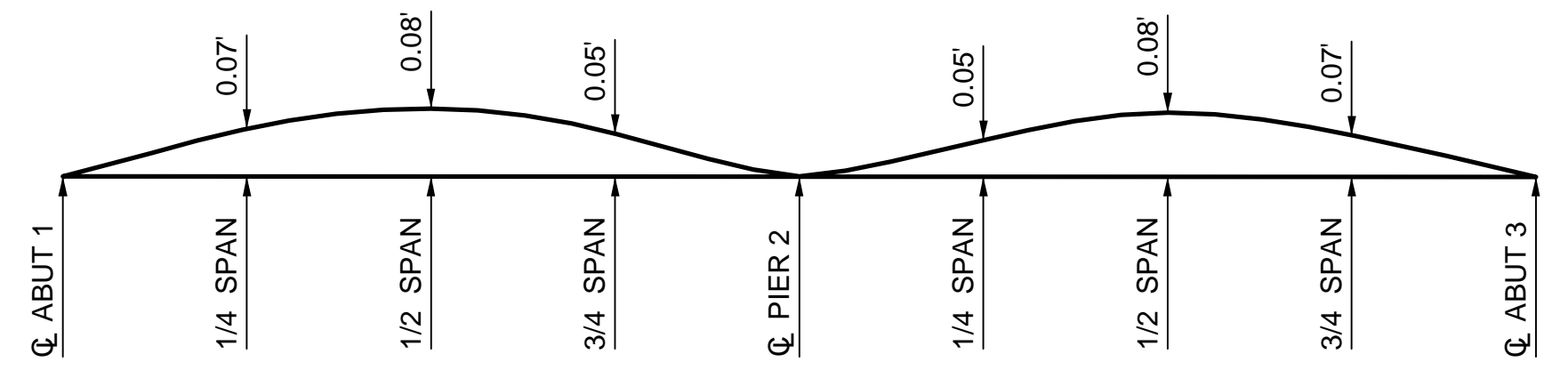




**GIRDER LAYOUT**  
3/32" = 1'-0"



**LONGITUDINAL SECTION**  
NO SCALE



NOTE: DOES NOT INCLUDE ALLOWANCE FOR FALSEWORK SETTLEMENT.

**CAMBER DIAGRAM**  
NO SCALE

**PRESTRESSING NOTES**

270 ksi LOW RELAXATION STRAND:  
 Pjack = 18,100 kips  
 ANCHOR SET = 3/8 inch  
 TOTAL NUMBER OF GIRDERS = 9  
 FRICTION CURVATURE COEFFICIENT  $\mu = 0.15$   
 FRICTION WOBBLE COEFFICIENT  $k = 0.0002$   
 DISTRIBUTION OF PRESTRESS FORCE (Pjack) BETWEEN GIRDERS SHALL NOT EXCEED THE RATIO OF 3:2. MAXIMUM FINAL FORCE VARIATION BETWEEN GIRDERS SHALL NOT EXCEED 725 kips.  
 CONCRETE:  $f_c = 4,500$  psi @ 28 DAYS  
 $f_{ci} = 3,500$  psi @ TIME OF STRESSING  
 CONTRACTOR SHALL SUBMIT ELONGATION CALCULATIONS BASED ON INITIAL STRESS AT  $\square = 0.898$  TIMES JACKING STRESS.  
 ONE END STRESSING SHALL BE PERFORMED FROM ABUTMENT 1 ONLY.

**LEGEND**

- GIRDER STEM WIDTH IN INCHES, SEE (B7-1 S-3)
- THEORETICAL POINT OF NO MOVEMENT

**NOTES:**

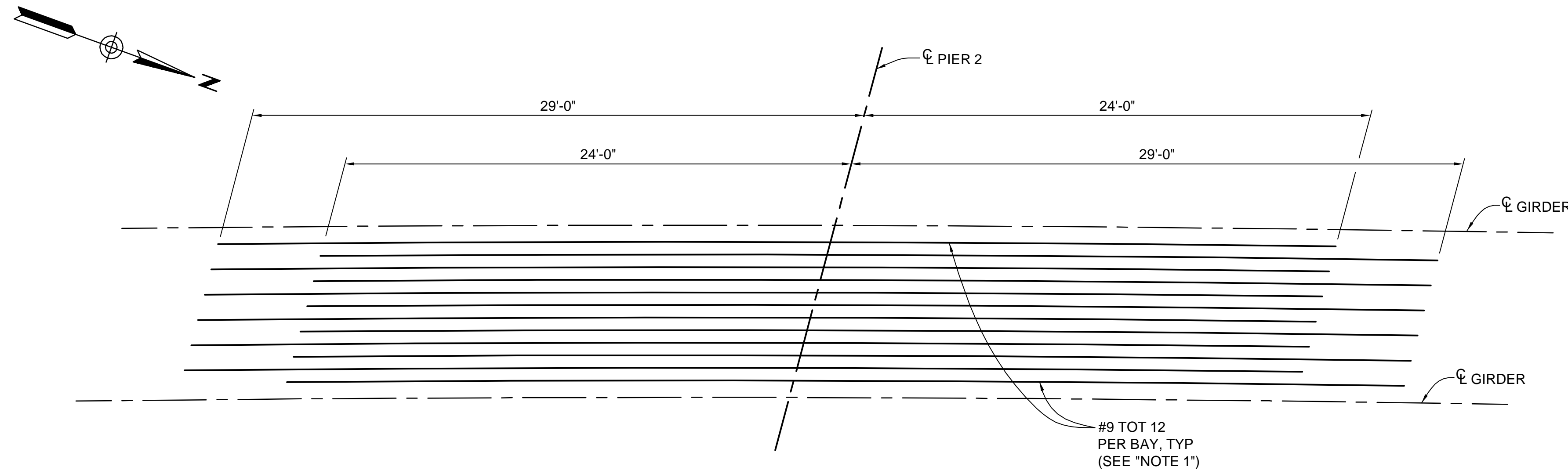
1. FOR ORIENTATION OF TRANSVERSE DECK REINFORCEMENT, SEE "TYPICAL SECTION" SHEET.
2. L = DISTANCE MEASURED ALONG  $\phi$  GIRDER BETWEEN  $\phi$  ABUT AND  $\phi$  PIER.

DWG: PA 00274407 - Citracado Parkway\_ORA\_000\_CAD\_008\_Structural\Bridges\00274407-SH1-S-BR-01.3.rvt

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

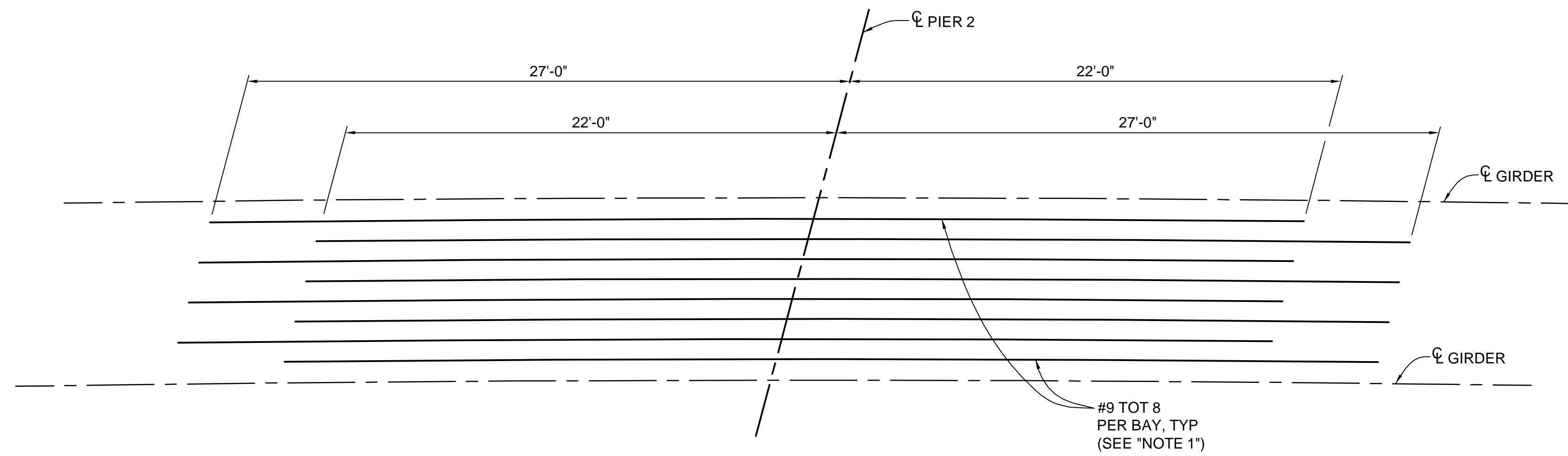
| CONSTRUCTION RECORD | REFERENCES | Date | By | REVISIONS | App'd | Date | BENCH MARK                                                                                                                                                                                                  | SCALE                                    | Office  | Designed By                         | Drawn By | Checked By | Submitted                               | Approved                 | CITY OF ESCONDIDO | DEPARTMENT OF PUBLIC WORKS | Drawing No.     |
|---------------------|------------|------|----|-----------|-------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------|-------------------------------------|----------|------------|-----------------------------------------|--------------------------|-------------------|----------------------------|-----------------|
| Contractor          |            |      |    |           |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE N.E. CORNER OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 842.965 DATUM: NGVD 29. | Horizontal AS SHOWN<br>Vertical AS SHOWN | Traffic | JH                                  | JQ       | JC         |                                         |                          | CITY OF ESCONDIDO |                            |                 |
| Inspector           |            |      |    |           |       |      |                                                                                                                                                                                                             |                                          |         | Plans Prepared Under Supervision Of |          |            | By                                      | By                       | Bridge Plans for: |                            |                 |
| Date Completed      |            |      |    |           |       |      |                                                                                                                                                                                                             |                                          |         | T.W. DUDLEY                         |          |            | Assistant City Engineer of Public Works | Director of Public Works | CITRACADO PARKWAY |                            | Sheet 31 of 184 |





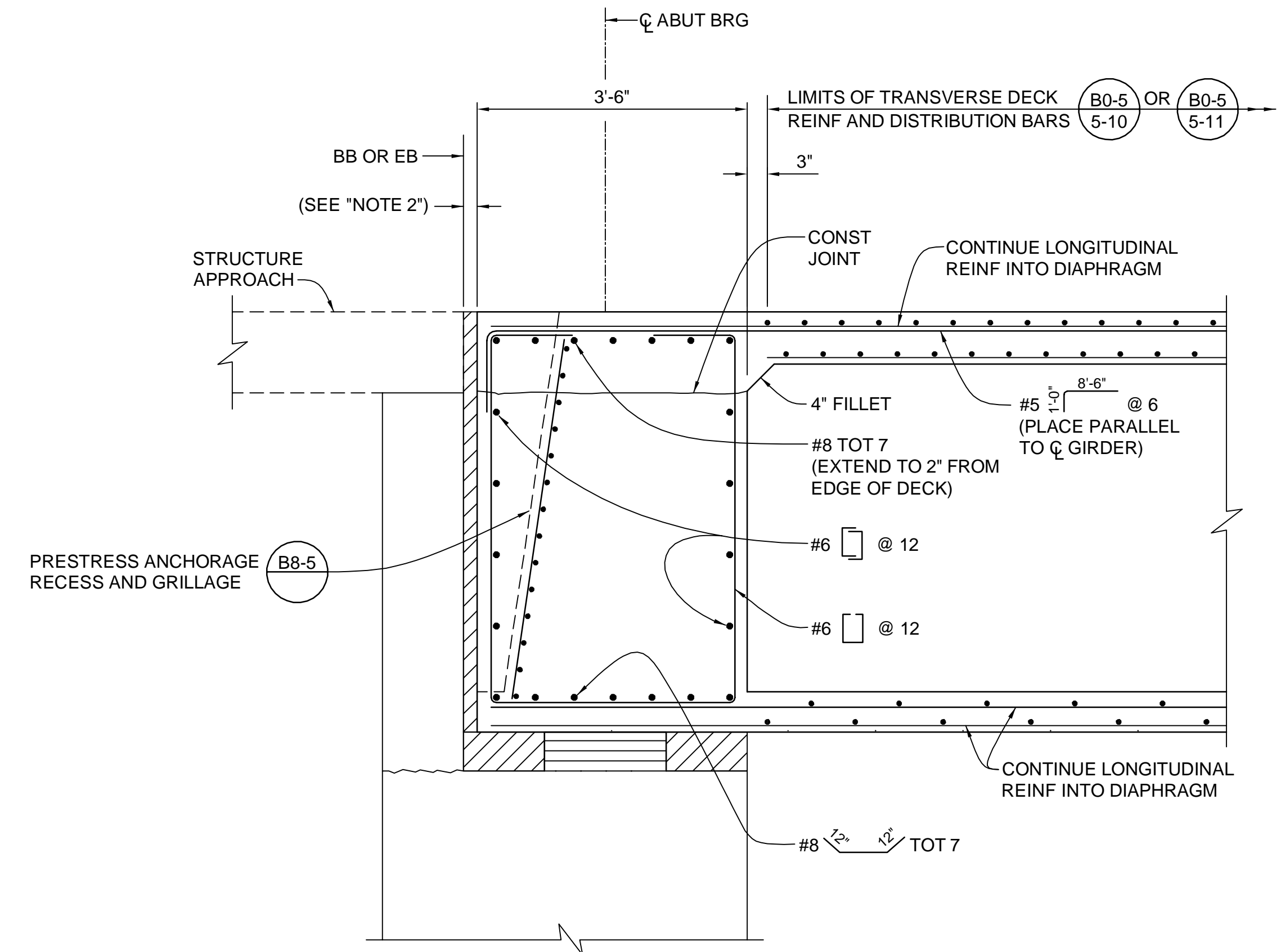
**ADDITIONAL TOP LONGITUDINAL REINFORCEMENT**

1/4" = 1'-0"



**ADDITIONAL BOTTOM LONGITUDINAL REINFORCEMENT**

1/4" = 1'-0"



**END DIAPHRAGM DETAIL**

3/4" = 1'-0"

**LEGEND**

EXPANDED POLYSTYRENE

**NOTES:**

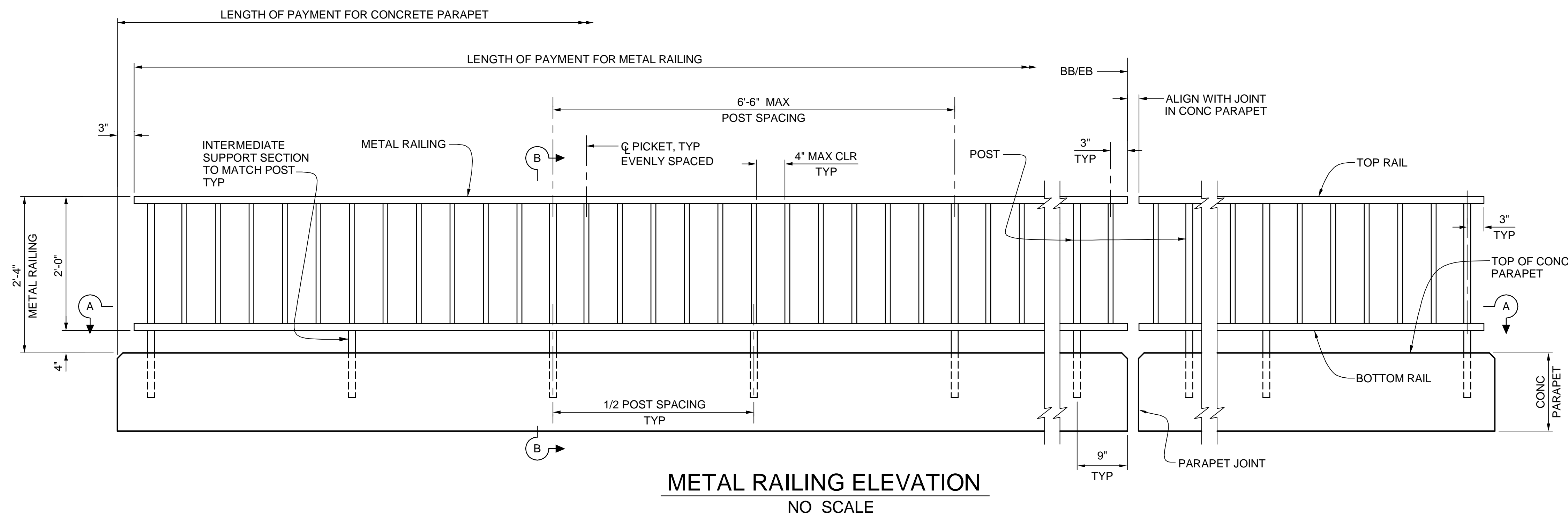
- ADDITIONAL REINFORCEMENT SHALL BE EVENLY SPACED BETWEEN THE INSIDE FACES OF GIRDERS.
- FOR GAP DIMENSION BETWEEN END DIAPHRAGM AND BACKWALL, SEE "ABUTMENT DETAILS NO. 1" SHEET.

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

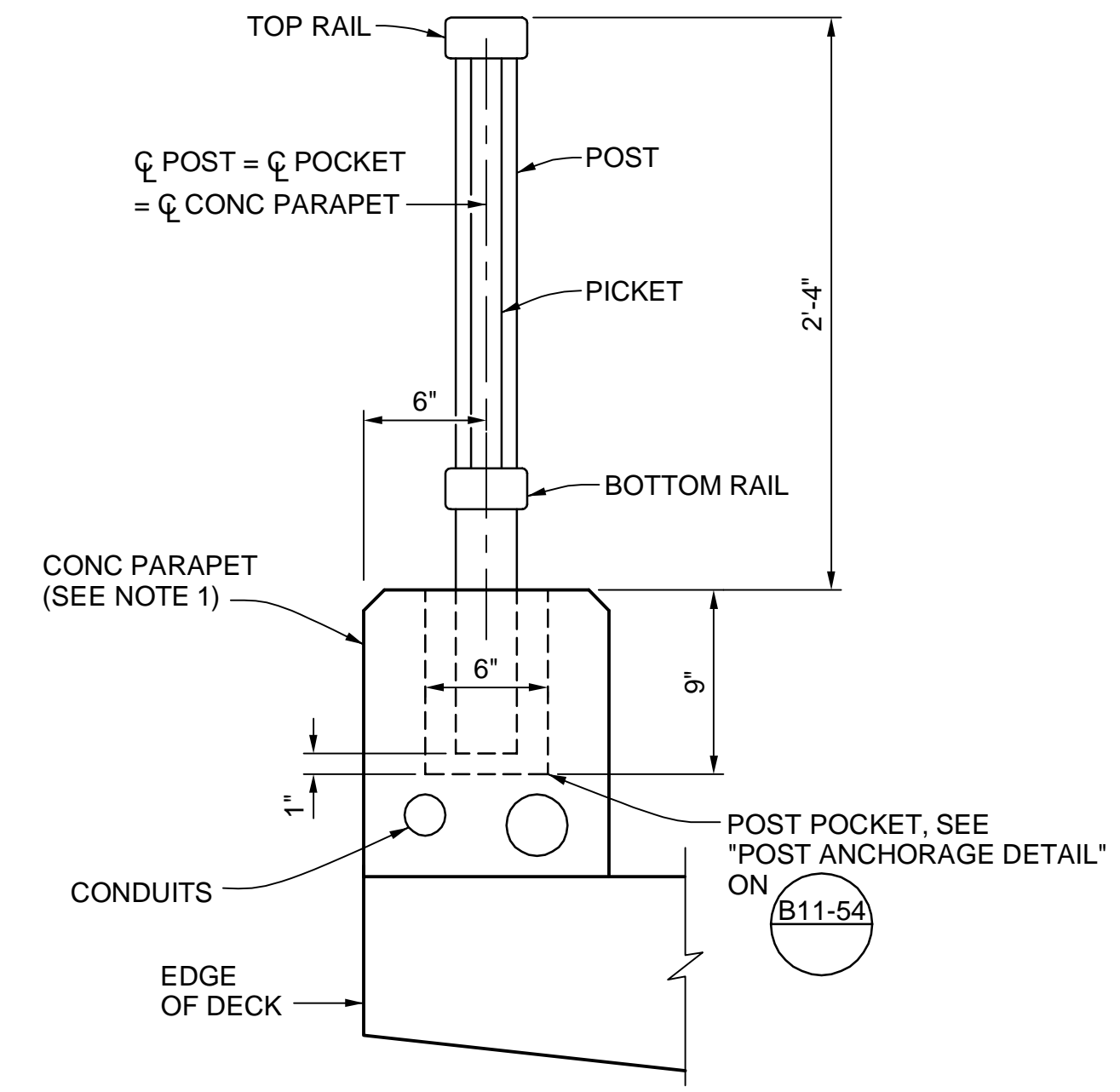
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| CONSTRUCTION RECORD |  | REFERENCES | Date | By | REVISIONS |  | App'd | Date | BENCH MARK                                                                                                                                                                                           | SCALE                                    | Office  | Designed By                         | Drawn By | Checked By       | Submitted                               | Approved                 | CITY OF ESCONDIDO | DEPARTMENT OF PUBLIC WORKS | Drawing No.     |
|---------------------|--|------------|------|----|-----------|--|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------|-------------------------------------|----------|------------------|-----------------------------------------|--------------------------|-------------------|----------------------------|-----------------|
| Contractor          |  |            |      |    |           |  |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 842.965 DATUM: NGVD 29. | Horizontal AS SHOWN<br>Vertical AS SHOWN | Traffic | JH                                  | JQ       | JC               |                                         |                          | Bridge Plans for: |                            |                 |
| Inspector           |  |            |      |    |           |  |       |      |                                                                                                                                                                                                      |                                          |         | Plans Prepared Under Supervision Of |          |                  |                                         |                          | CITRACADO PARKWAY | GIRDER REINFORCEMENT       |                 |
| Date Completed      |  |            |      |    |           |  |       |      |                                                                                                                                                                                                      |                                          |         | T.W. DUDLEY                         |          | 5/21/2015        |                                         |                          |                   |                            | Sheet 32 of 184 |
|                     |  |            |      |    |           |  |       |      |                                                                                                                                                                                                      |                                          |         |                                     |          | R.C.E. No. 39514 | Assistant City Engineer of Public Works | Director of Public Works |                   |                            |                 |

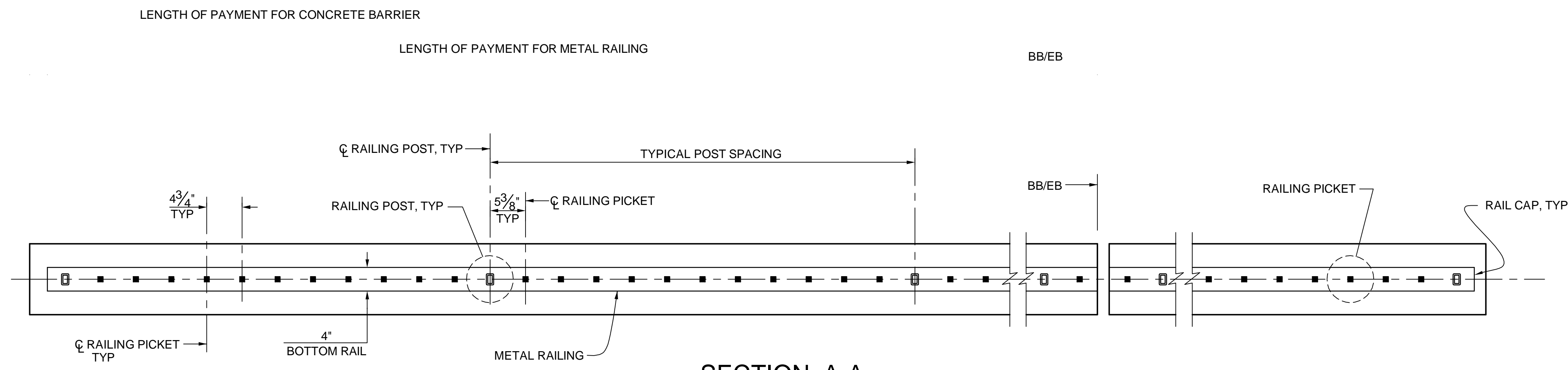




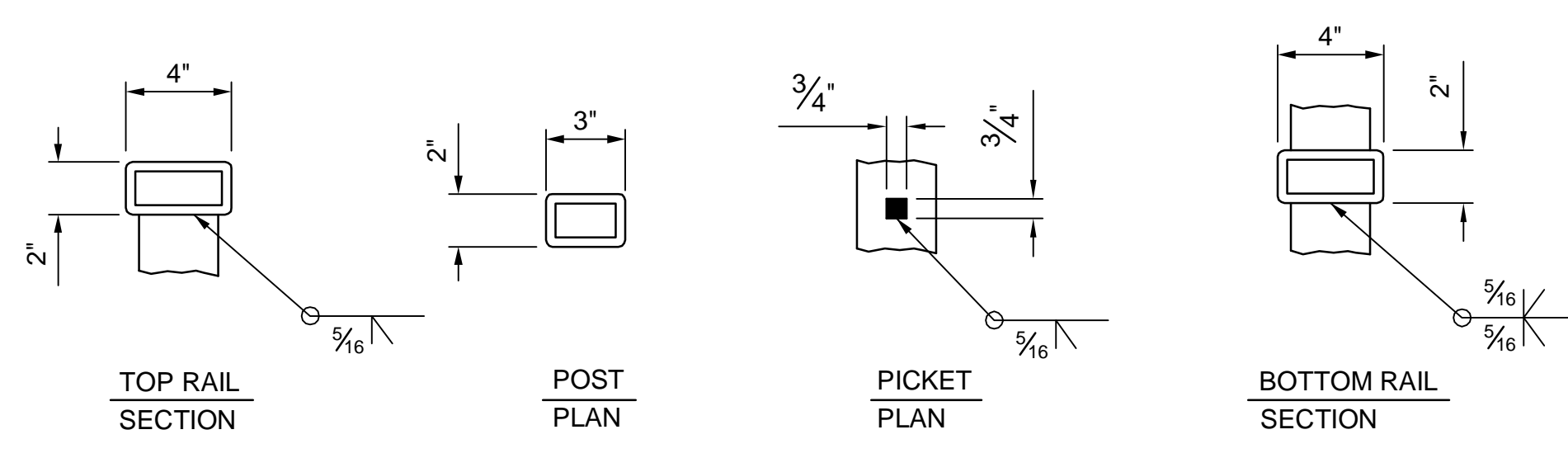
**METAL RAILING ELEVATION**  
NO SCALE



**SECTION B-B**  
NO SCALE



**SECTION A-A**  
NO SCALE



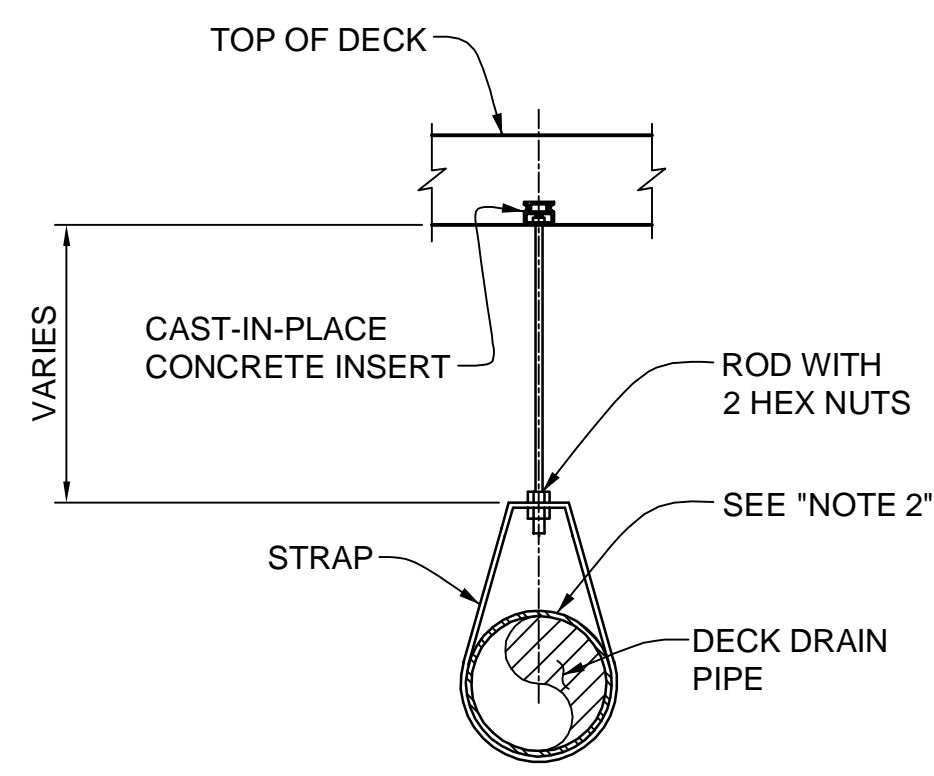
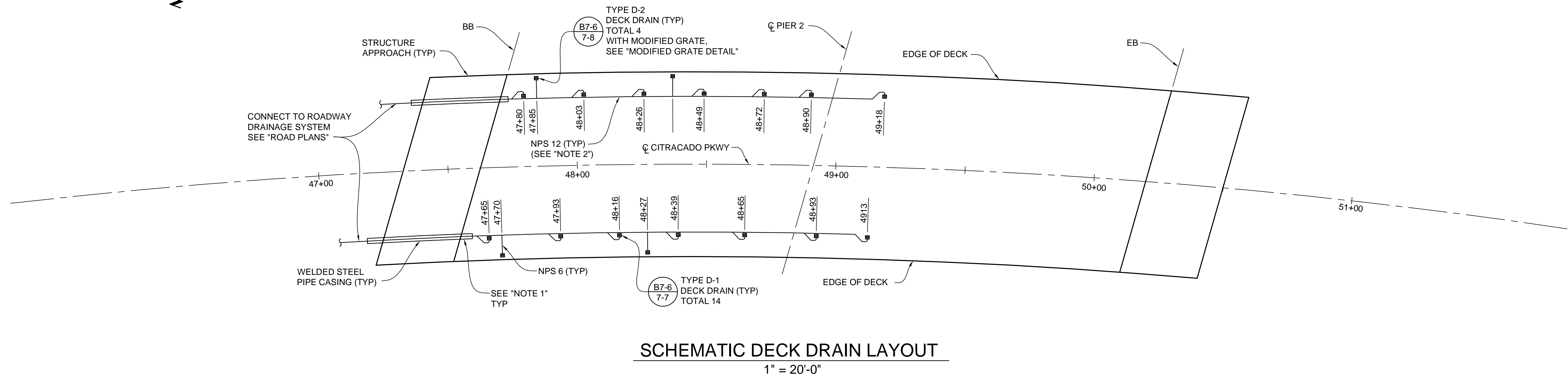
**RAIL-POST-PICKET DETAILS**  
NO SCALE

- NOTES:**
1. FOR CONCRETE PARAPET DETAILS, SEE "TYPICAL SECTION" SHEET.
  2. RAILS AND POSTS TO CONSIST OF STRUCTURAL TUBING WITH A THICKNESS OF 5/16". PICKETS TO CONSIST OF 3/4" x 3/4" BARS.
  3. POST LOCATIONS SHALL MATCH RECESSES IN PARAPET FACE. SEE "BARRIER AND PARAPET RECESS DETAILS" SHEET FOR DETAILS.

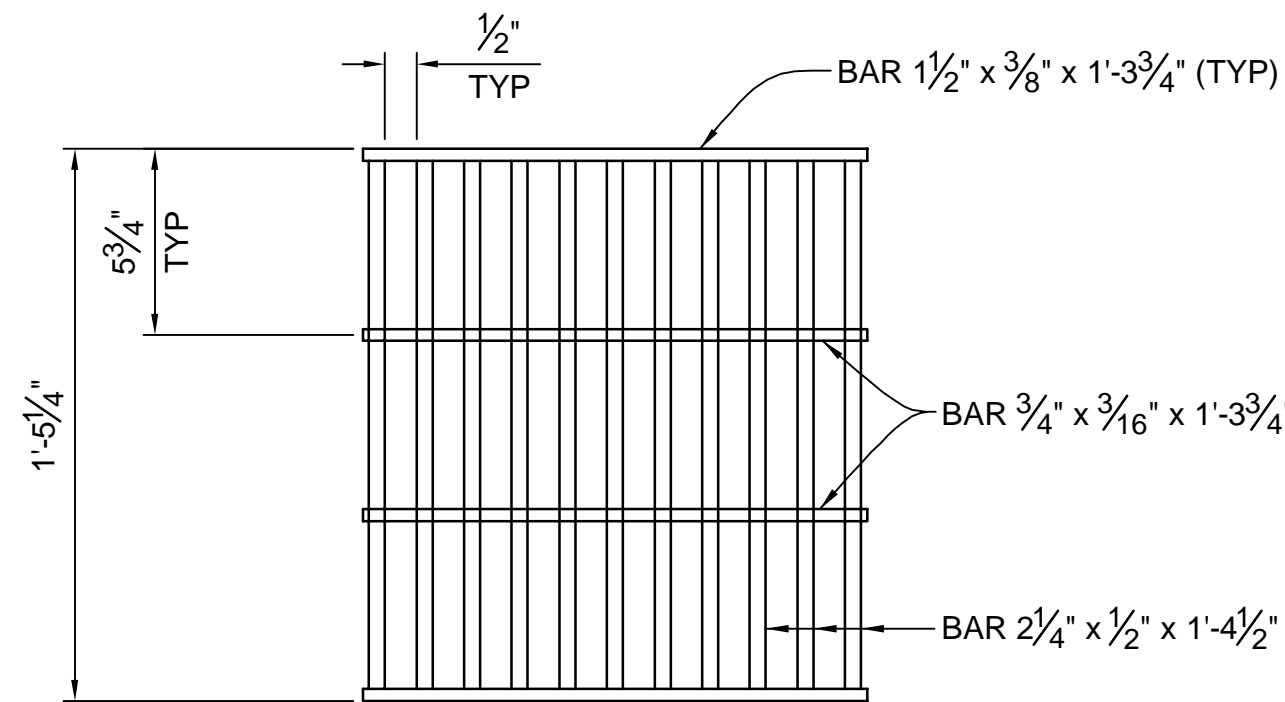
NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

|                     |  |            |  |      |    |           |  |       |      |            |                                                                                                                                                                                                      |                     |         |             |             |          |            |           |          |                   |                                         |                            |                   |                       |
|---------------------|--|------------|--|------|----|-----------|--|-------|------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------|-------------|-------------|----------|------------|-----------|----------|-------------------|-----------------------------------------|----------------------------|-------------------|-----------------------|
| CONSTRUCTION RECORD |  | REFERENCES |  | Date | By | REVISIONS |  | App'd | Date | BENCH MARK |                                                                                                                                                                                                      |                     | SCALE   | Office      | Designed By | Drawn By | Checked By | Submitted | Approved | CITY OF ESCONDIDO |                                         | DEPARTMENT OF PUBLIC WORKS | Drawing No.       |                       |
| Contractor          |  |            |  |      |    |           |  |       |      |            | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 842.965 DATUM: NGVD 29. | Horizontal AS SHOWN | Filmed  | JH          | RA          | JC       |            |           |          |                   |                                         |                            | Bridge Plans for: |                       |
| Inspector           |  |            |  |      |    |           |  |       |      |            |                                                                                                                                                                                                      | Vertical AS SHOWN   | Traffic | T.W. DUDLEY |             |          |            | 5/21/2015 |          |                   | Assistant City Engineer of Public Works | Director of Public Works   | CITRACADO PARKWAY | METAL RAILING DETAILS |
| Date Completed      |  |            |  |      |    |           |  |       |      |            |                                                                                                                                                                                                      |                     |         |             |             |          |            |           |          |                   |                                         |                            | Sheet 33 of 184   |                       |





| PIPE SIZE | WALL THICKNESS | HANGER SPACING | HANGER ROD DIA | HANGER STRAP SIZE |
|-----------|----------------|----------------|----------------|-------------------|
| NPS 6     | 0.135"         | 10'-0"         | 1 5/16"        | 5/16" x 2"        |
| NPS 12    | 3/16"          | 10'-0"         | 1 1/8"         | 3/8" x 2 1/2"     |



NOTE:  
FOR DETAILS NOT SHOWN, SEE (B7-6)

**NOTES:**

1. FOR DRAIN PIPE AND EXPANSION COUPLING, SEE STANDARD PLAN B7-8.
2. A 1.5% MINIMUM SLOPE SHALL BE PROVIDED AT DECK DRAIN PIPE. THE 1.5% MINIMUM SLOPE SHALL OCCUR AFTER FALSEWORK RELEASE.

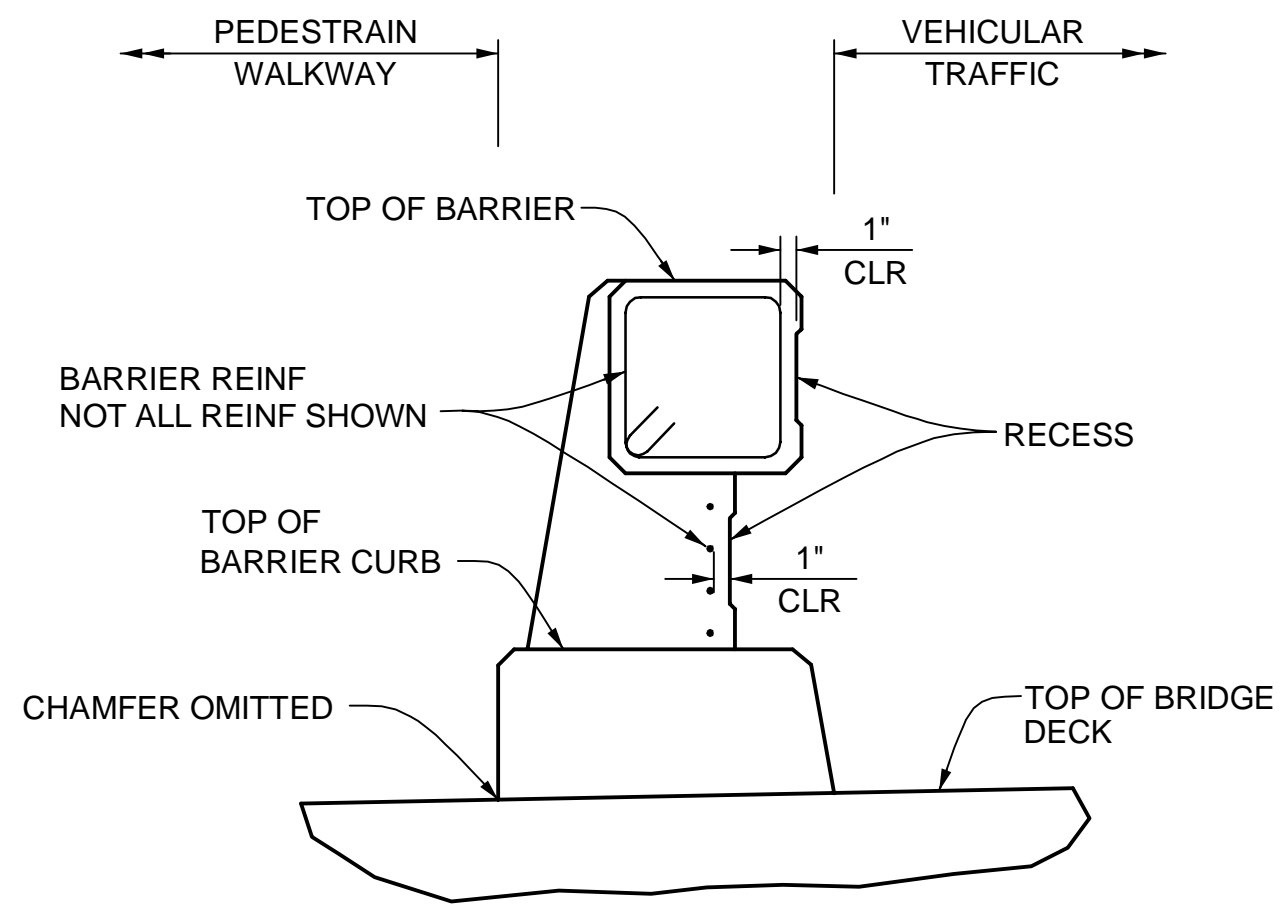
NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



DWG: P:\0274407 - Citracado Parkway\_ORA\_000\_CAD\_008\_Structural\Sheets\Bridges\0274407-SH1-S-BR-016.dwg

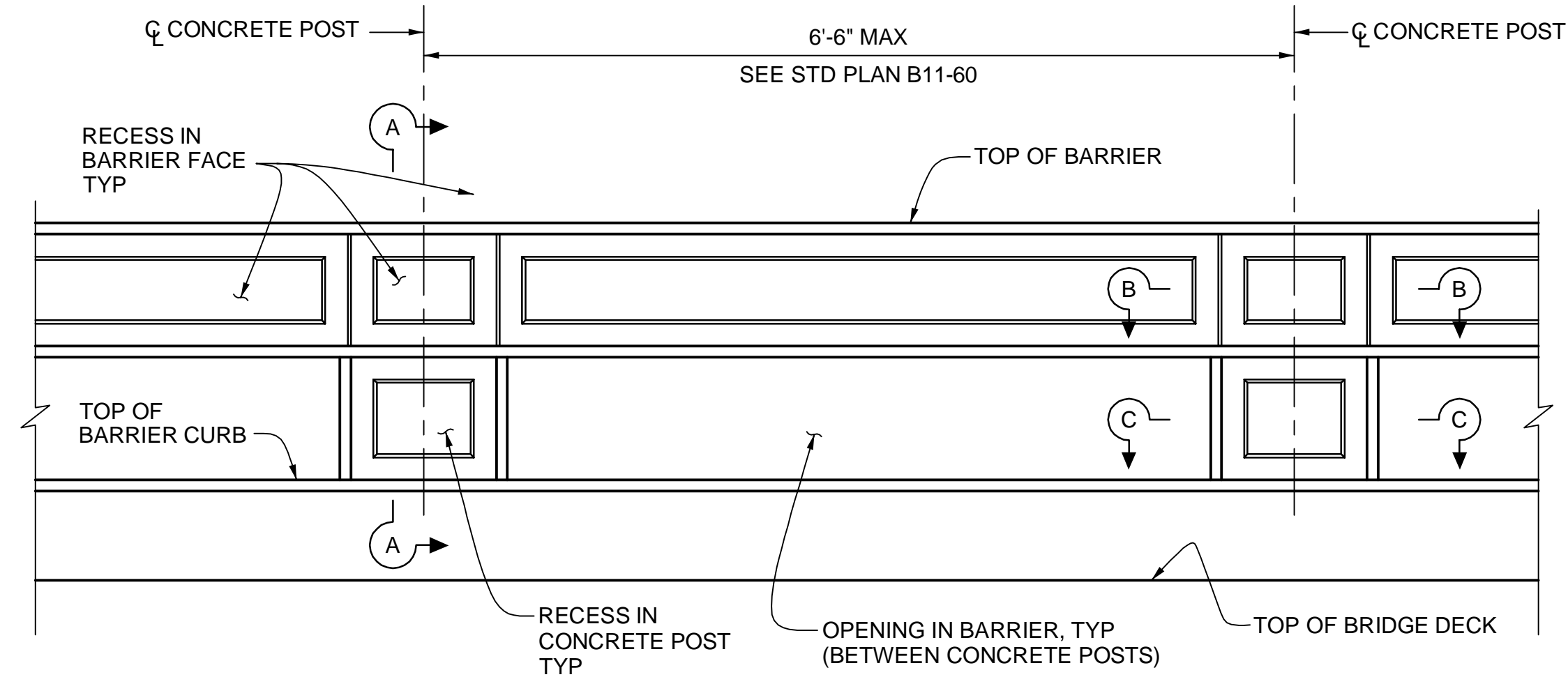
| CONSTRUCTION RECORD |  | REFERENCES | Date | By | REVISIONS |  | App'd | Date | BENCH MARK                                                                                                                                                                             | SCALE                                                        | Office | Designed By                         | Drawn By | Checked By | Submitted                               | Approved                 | CITY OF ESCONDIDO | DEPARTMENT OF PUBLIC WORKS  | Drawing No.     |
|---------------------|--|------------|------|----|-----------|--|-------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------|-------------------------------------|----------|------------|-----------------------------------------|--------------------------|-------------------|-----------------------------|-----------------|
| Contractor          |  |            |      |    |           |  |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. DATUM: NGVD 29. | Horizontal AS SHOWN<br>Vertical AS SHOWN<br>Traffic AS SHOWN |        | JH                                  | JQ       | JC         |                                         |                          | Bridge Plans for: |                             |                 |
| Inspector           |  |            |      |    |           |  |       |      |                                                                                                                                                                                        |                                                              |        | Plans Prepared Under Supervision Of |          |            | By                                      | By                       | CITRACADO PARKWAY | MISCELLANEOUS DETAILS NO. 1 |                 |
| Date Completed      |  |            |      |    |           |  |       |      |                                                                                                                                                                                        |                                                              |        | T.W. DUDLEY                         |          |            | Assistant City Engineer of Public Works | Director of Public Works |                   |                             | Sheet 34 of 184 |



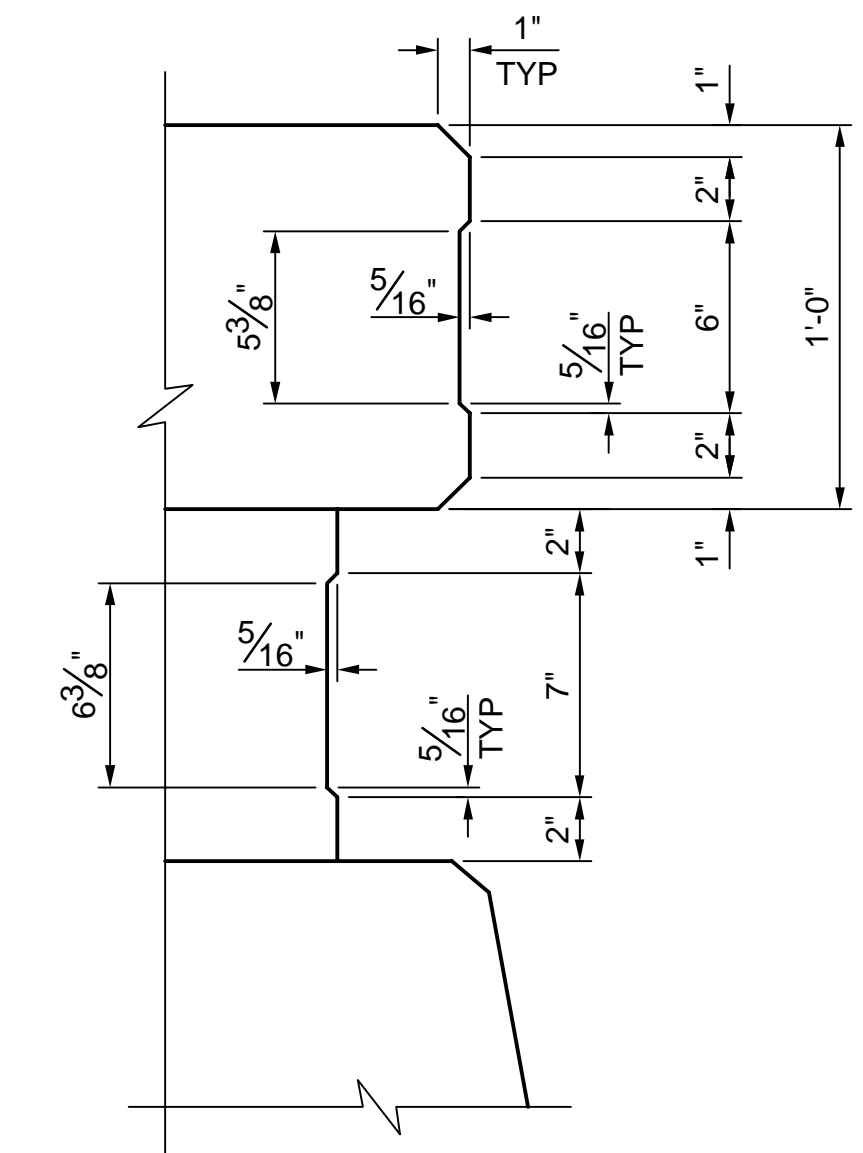


**TYPICAL SECTION TYPE 80 (MOD) BARRIER**  
1" = 1'-0"

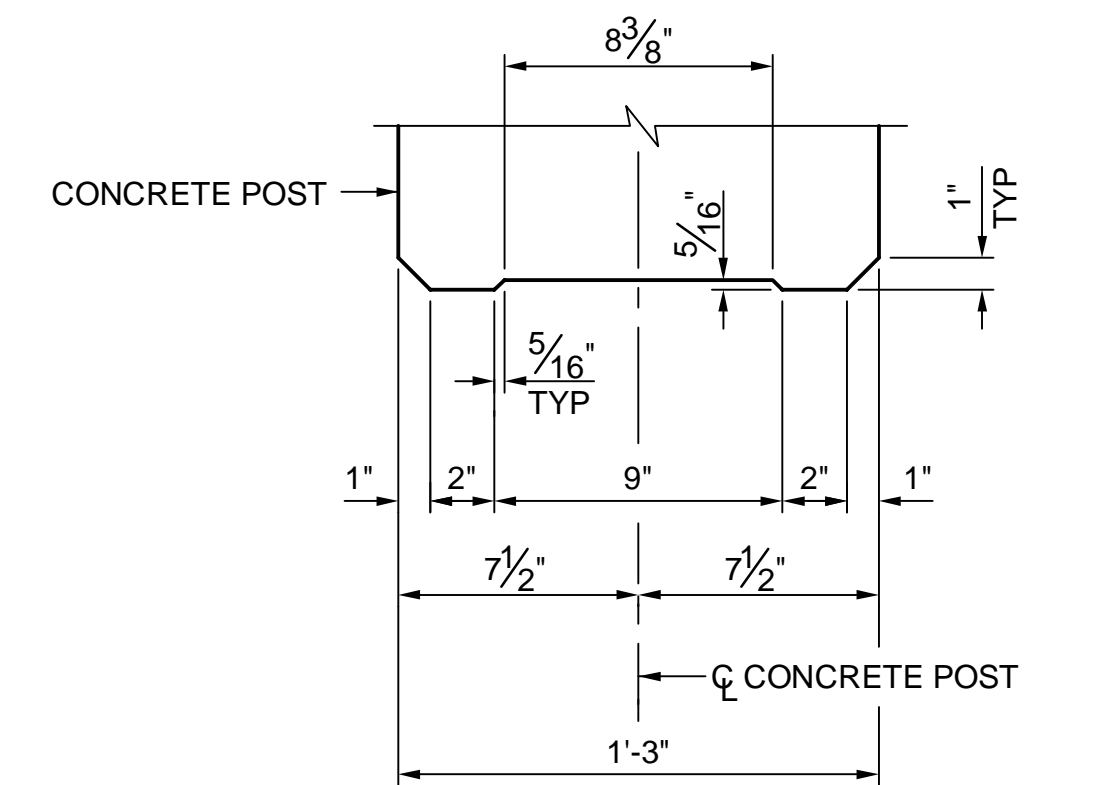
FOR INFORMATION NOT SHOWN SEE CALTRANS STANDARD PLAN **B11-60**



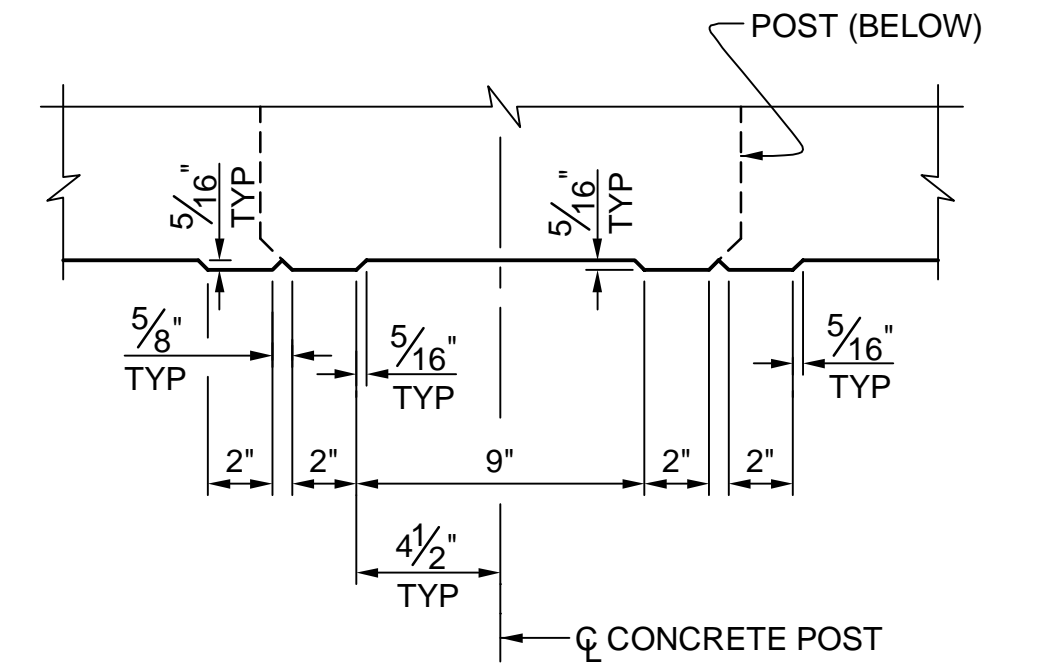
**PART ELEVATION TYPE 80 (MOD) BARRIER**  
1" = 1'-0"



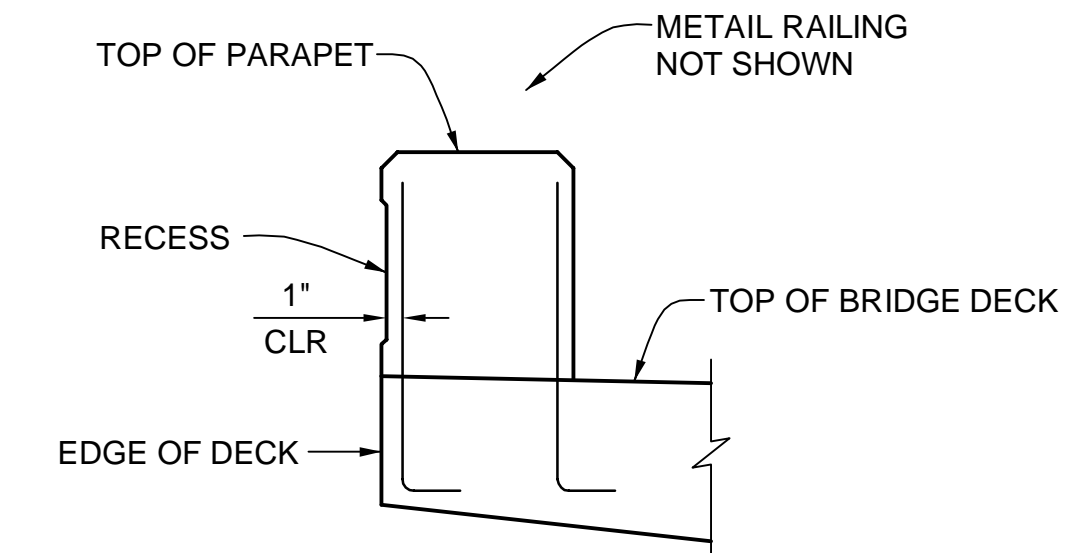
**SECTION A-A**  
2" = 1'-0"



**SECTION C-C**  
2" = 1'-0"

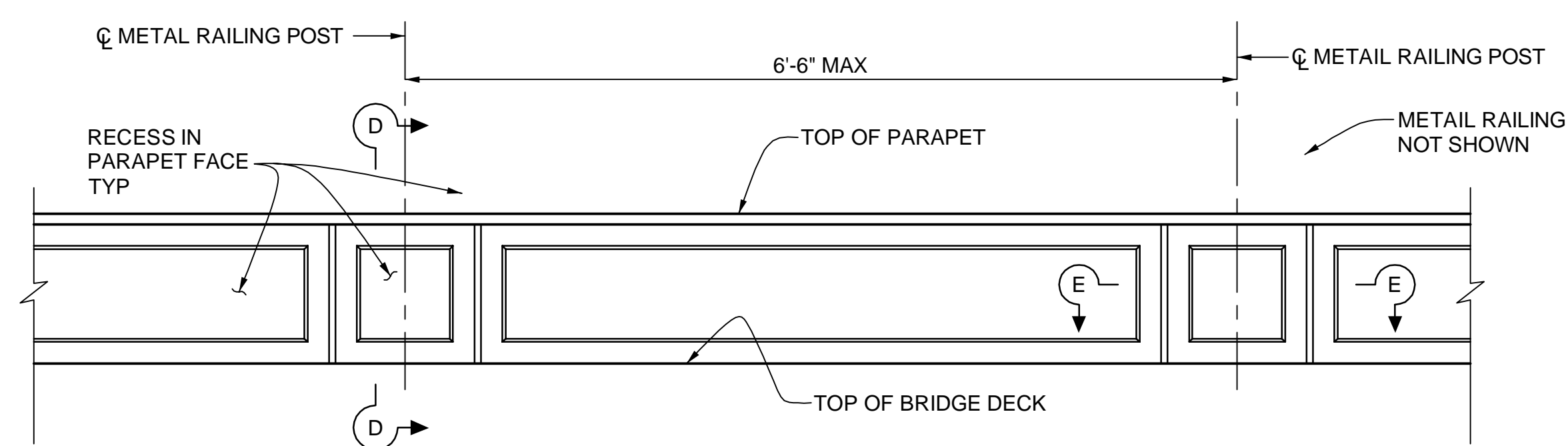


**SECTION B-B**  
2" = 1'-0"

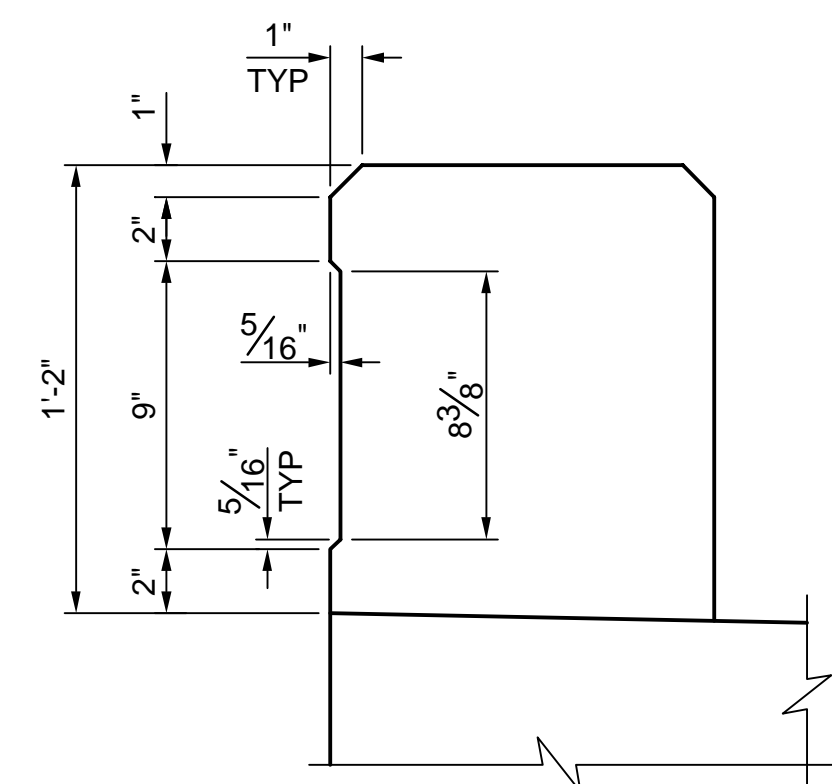


**TYPICAL SECTION CONCRETE PARAPET**  
1" = 1'-0"

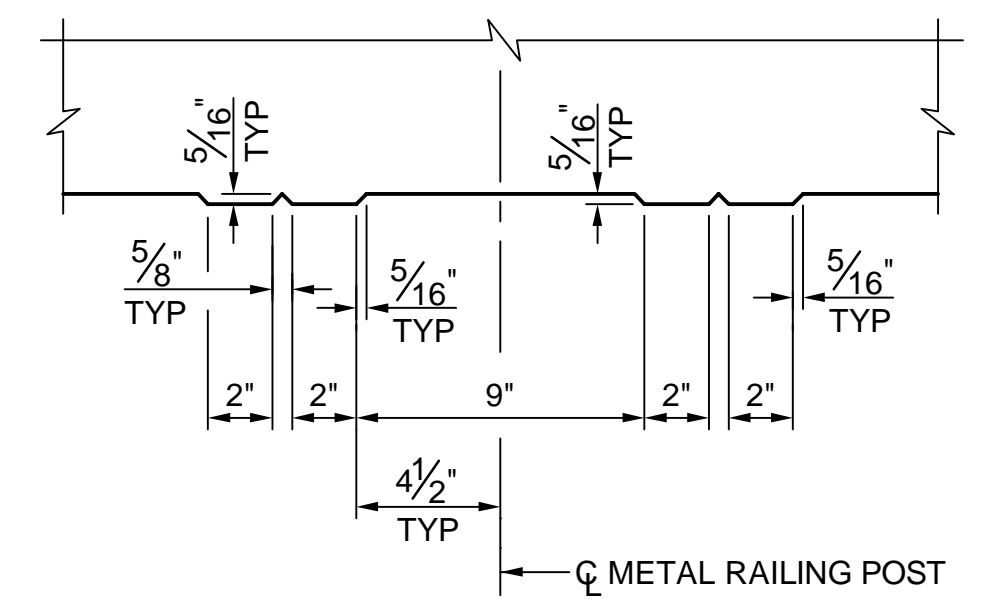
FOR INFORMATION NOT SHOWN SEE "TYPICAL SECTION" SHEET.



**PART ELEVATION CONCRETE PARAPET**  
1" = 1'-0"



**SECTION D-D**  
2" = 1'-0"



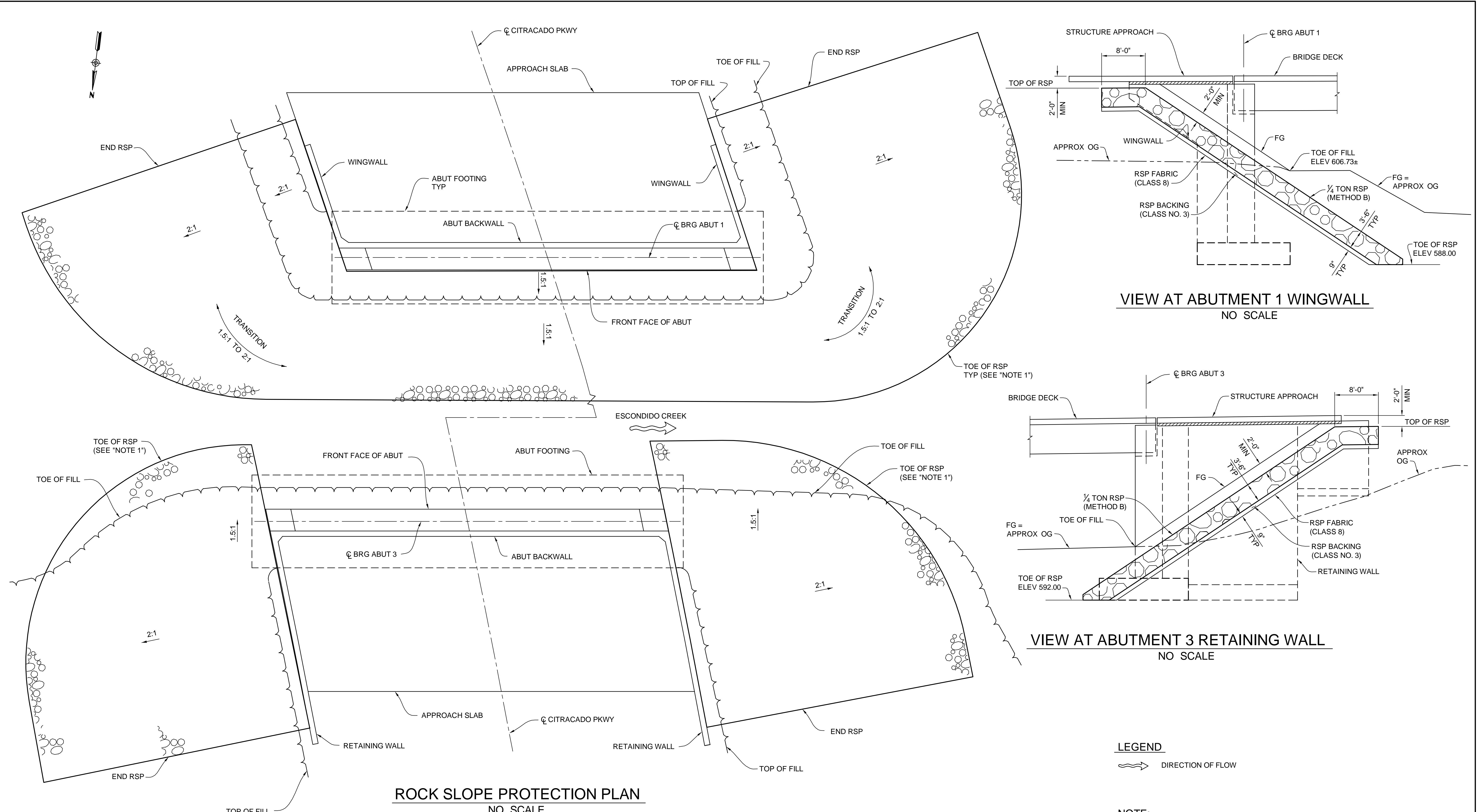
**SECTION E-E**  
2" = 1'-0"

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DWG: PA 00274407 - Citracado Parkway\_ORA\_000\_CAD\_008\_Structural\Sheets\Bridges\00274407-SHT-S-BR-018.dwg

| CONSTRUCTION RECORD |  | REFERENCES | Date | By | REVISIONS |  | App'd | Date | BENCH MARK                                                                                                                                                                                           | SCALE                                    | Office  | Designed By                         | Drawn By | Checked By | Submitted | Approved | CITY OF ESCONDIDO                       | DEPARTMENT OF PUBLIC WORKS         | Drawing No.     |
|---------------------|--|------------|------|----|-----------|--|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------|-------------------------------------|----------|------------|-----------|----------|-----------------------------------------|------------------------------------|-----------------|
| Contractor          |  |            |      |    |           |  |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 842.965 DATUM: NGVD 29. | Horizontal AS SHOWN<br>Vertical AS SHOWN | Traffic | JH                                  | RA       | JC         |           |          | BRIDGE PLANS FOR:<br>CITRACADO PARKWAY  | BARRIER AND PARAPET RECESS DETAILS | Sheet 36 of 184 |
| Inspector           |  |            |      |    |           |  |       |      |                                                                                                                                                                                                      |                                          |         | Plans Prepared Under Supervision Of |          |            |           |          | Assistant City Engineer of Public Works | Director of Public Works           |                 |
| Date Completed      |  |            |      |    |           |  |       |      |                                                                                                                                                                                                      |                                          |         | T.W. DUDLEY                         |          |            |           |          |                                         |                                    |                 |





**ROCK SLOPE PROTECTION PLAN**  
NO SCALE

**VIEW AT ABUTMENT 1 WINGWALL**  
NO SCALE

**VIEW AT ABUTMENT 3 RETAINING WALL**  
NO SCALE

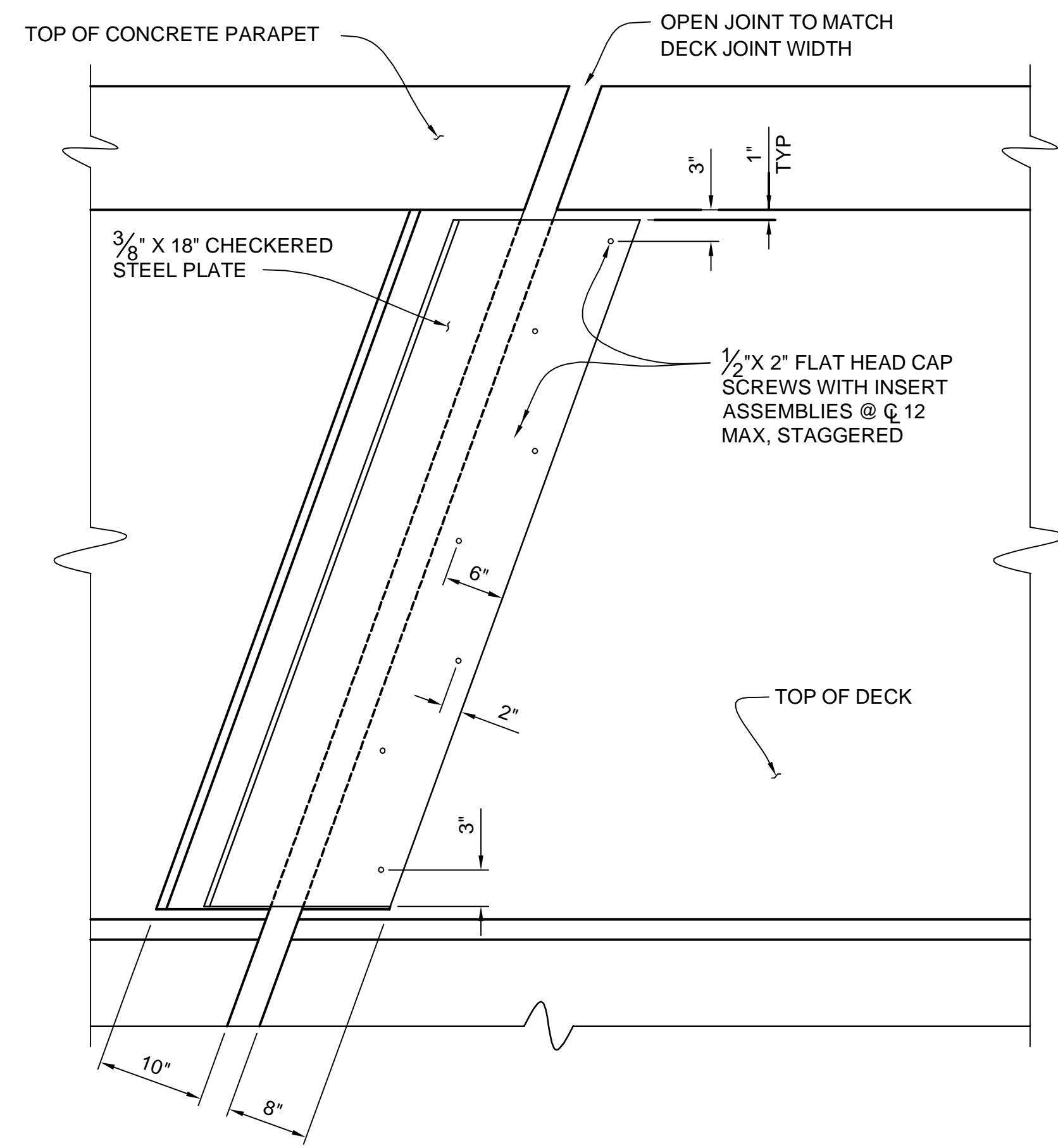
**LEGEND**  
 DIRECTION OF FLOW

**NOTE:**  
 1. FOR LIMITS OF RSP, SEE "BRIDGE GRADING" SHEET IN "ROAD PLANS".

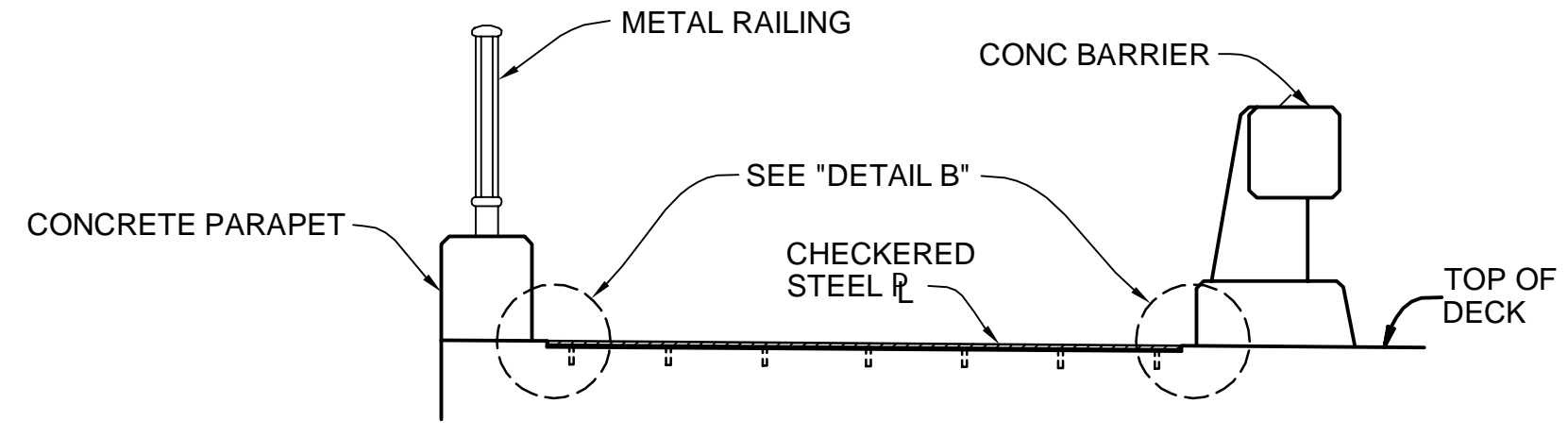
NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

| CONSTRUCTION RECORD |  | REFERENCES | Date | By | REVISIONS | App'd | Date | BENCH MARK                                                                                                                                                                                            | SCALE                                    | Office  | Designed By                         | Drawn By | Checked By | Submitted                               | Approved                 | CITY OF ESCONDIDO | DEPARTMENT OF PUBLIC WORKS    | Drawing No.     |
|---------------------|--|------------|------|----|-----------|-------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------|-------------------------------------|----------|------------|-----------------------------------------|--------------------------|-------------------|-------------------------------|-----------------|
| Contractor          |  |            |      |    |           |       |      | CONTROL PT. 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 642.965 DATUM: NGVD 29. | Horizontal AS SHOWN<br>Vertical AS SHOWN | Traffic | JH                                  | RA       | JC         |                                         |                          | Bridge Plans for: | ROCK SLOPE PROTECTION DETAILS |                 |
| Inspector           |  |            |      |    |           |       |      |                                                                                                                                                                                                       |                                          |         | Plans Prepared Under Supervision Of |          |            | By                                      | By                       | CITRACADO PARKWAY |                               |                 |
| Date Completed      |  |            |      |    |           |       |      |                                                                                                                                                                                                       |                                          |         | T.W. DUDLEY                         |          | 5/21/2015  | Assistant City Engineer of Public Works | Director of Public Works |                   |                               | Sheet 37 of 184 |

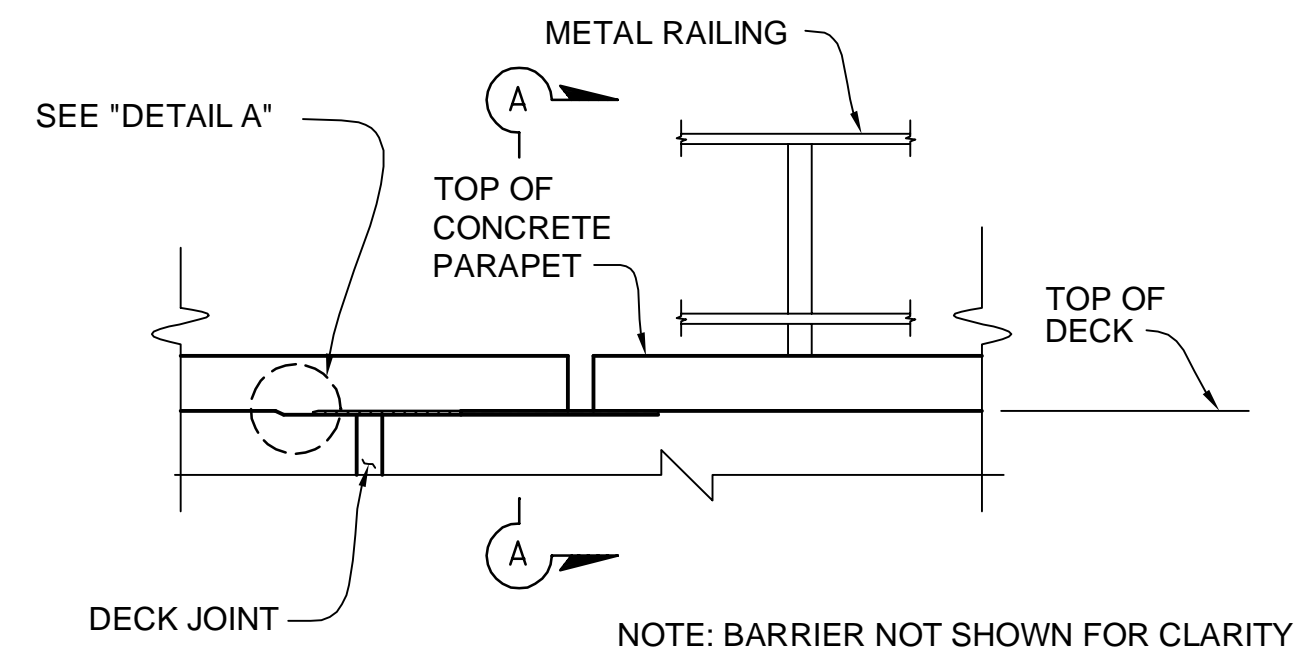




**PLAN**  
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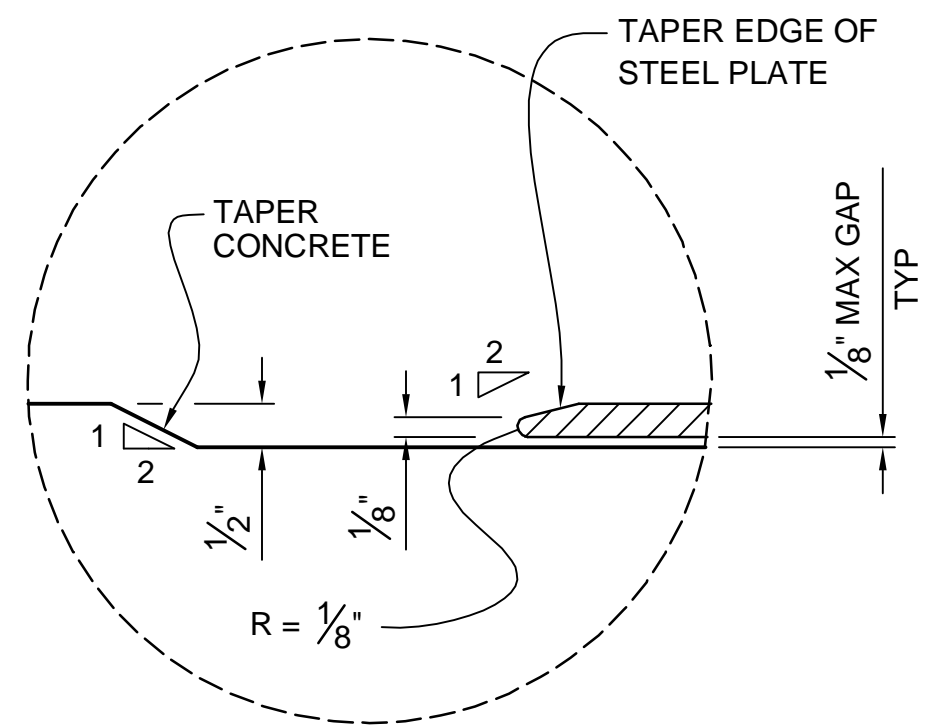


**SECTION A-A**  
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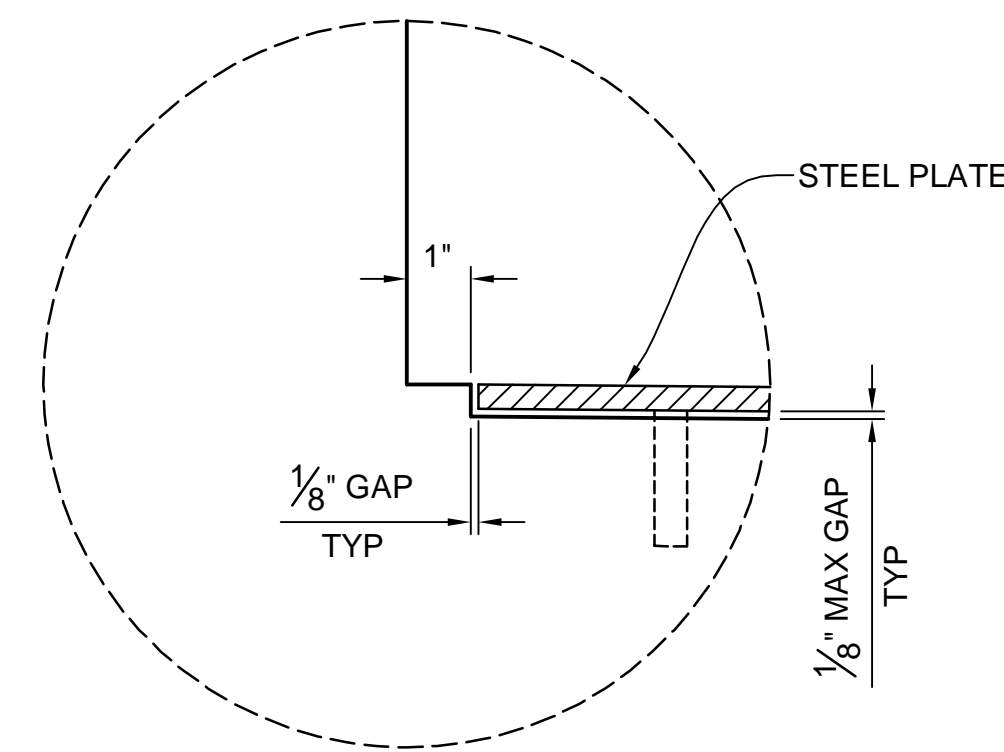


**ELEVATION**  
NO SCALE

- NOTES:**
1. UTILITY OPENINGS AND EXPANSION JOINTS NOT SHOWN FOR CLARITY.
  2. RECESS CONCRETE 1/2" FOR PLATES.
  3. PLATES TO BE GALVANIZED.
  4. ARCHITECTURAL TREATMENT NOT SHOWN



**DETAIL A**  
NO SCALE



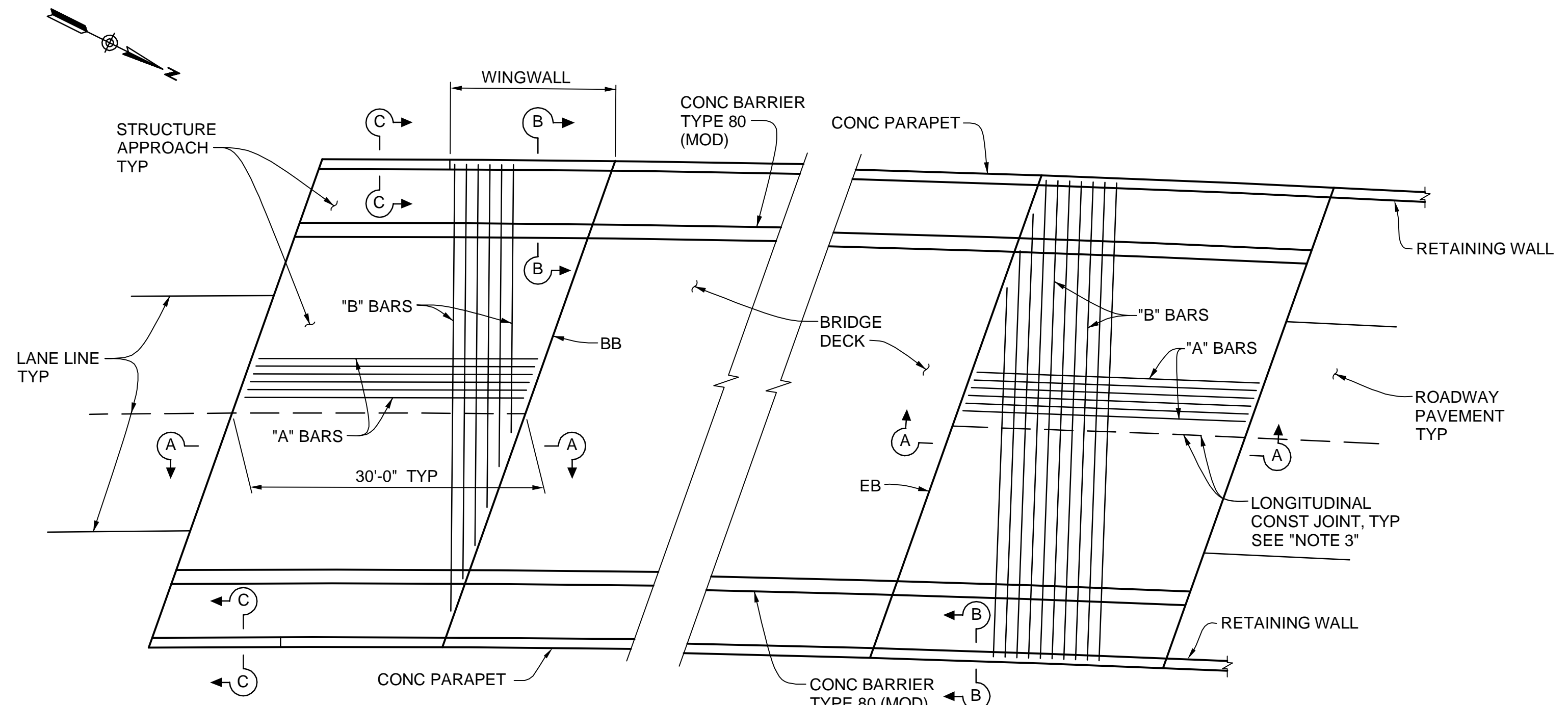
**DETAIL B**  
NO SCALE

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

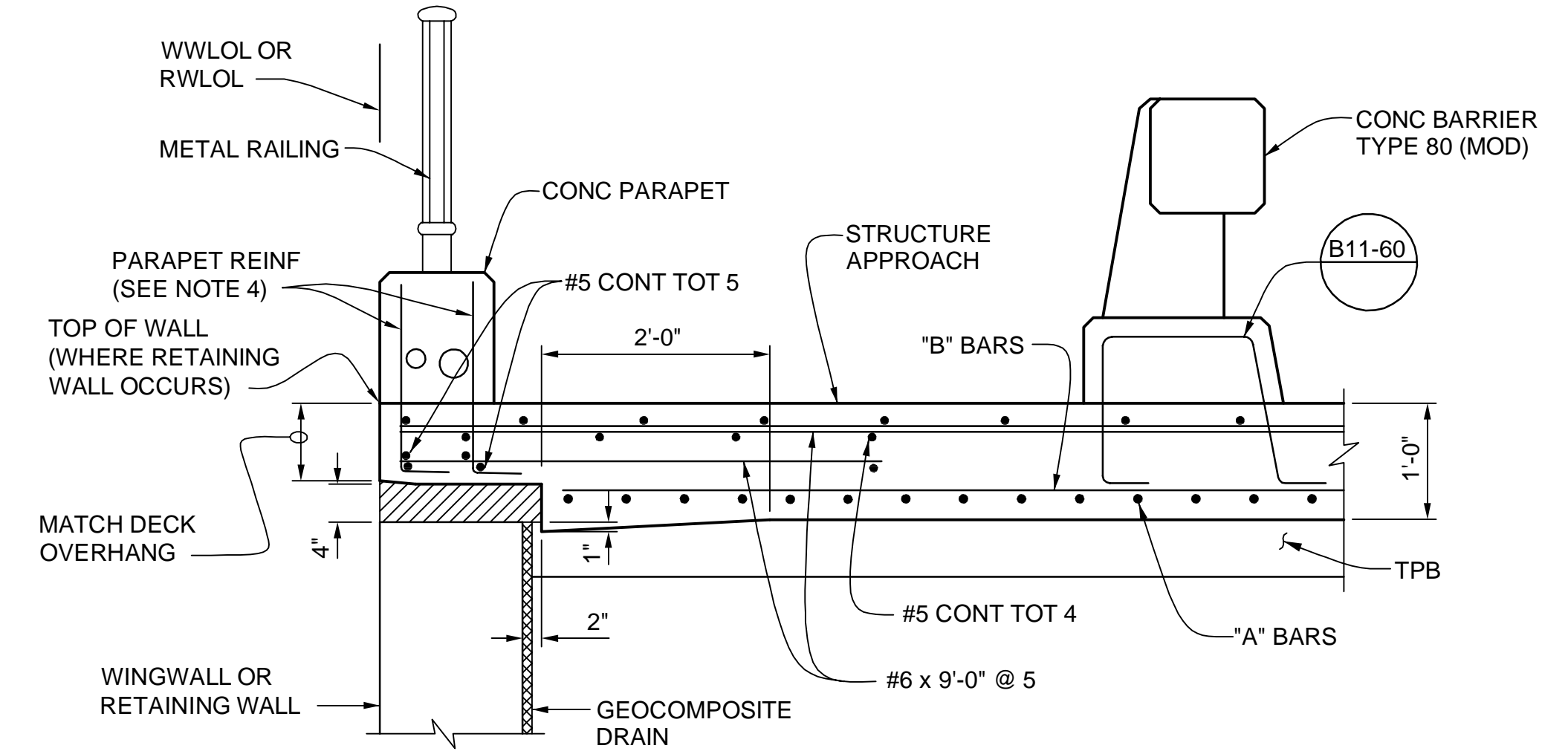
| CONSTRUCTION RECORD | REFERENCES | Date | By | REVISIONS | App'd | Date | BENCH MARK                                                                                                                                                                                           | SCALE               | Office  | Designed By                         | Drawn By | Checked By | Submitted                               | Approved                 | CITY OF ESCONDIDO | DEPARTMENT OF PUBLIC WORKS | Drawing No.     |
|---------------------|------------|------|----|-----------|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------|-------------------------------------|----------|------------|-----------------------------------------|--------------------------|-------------------|----------------------------|-----------------|
| Contractor          |            |      |    |           |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 842.965 DATUM: NGVD 29. | Horizontal AS SHOWN |         | JH                                  | EL       | JC         | Submitted                               | Approved                 | Bridge Plans for: |                            |                 |
| Inspector           |            |      |    |           |       |      |                                                                                                                                                                                                      | Vertical AS SHOWN   | Filmed  | Plans Prepared Under Supervision Of |          |            | By                                      | By                       | CITRACADO PARKWAY | JOINT SEAL ARMOR DETAILS   |                 |
| Date Completed      |            |      |    |           |       |      |                                                                                                                                                                                                      |                     | Traffic | T.W. DUDLEY                         |          |            | Assistant City Engineer of Public Works | Director of Public Works |                   |                            | Sheet 38 of 184 |



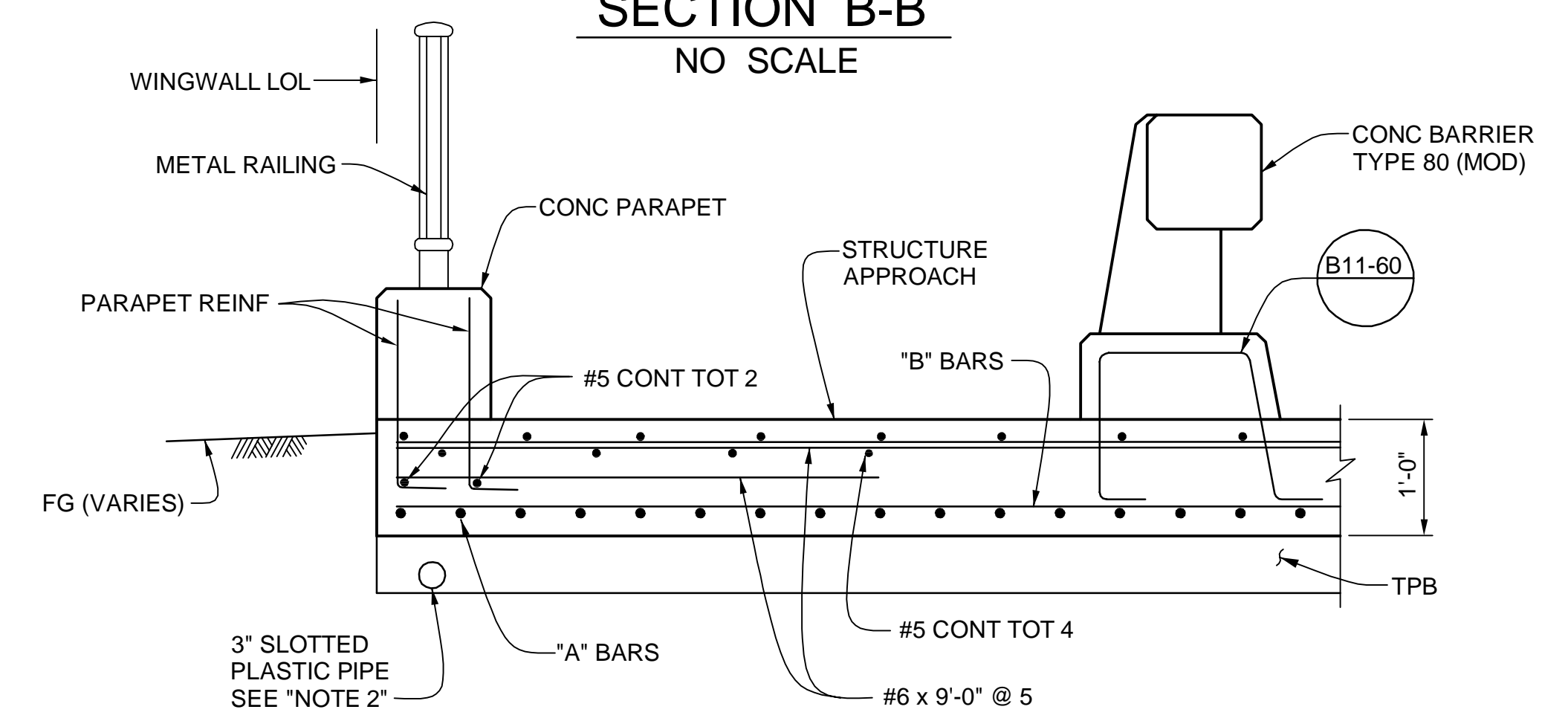




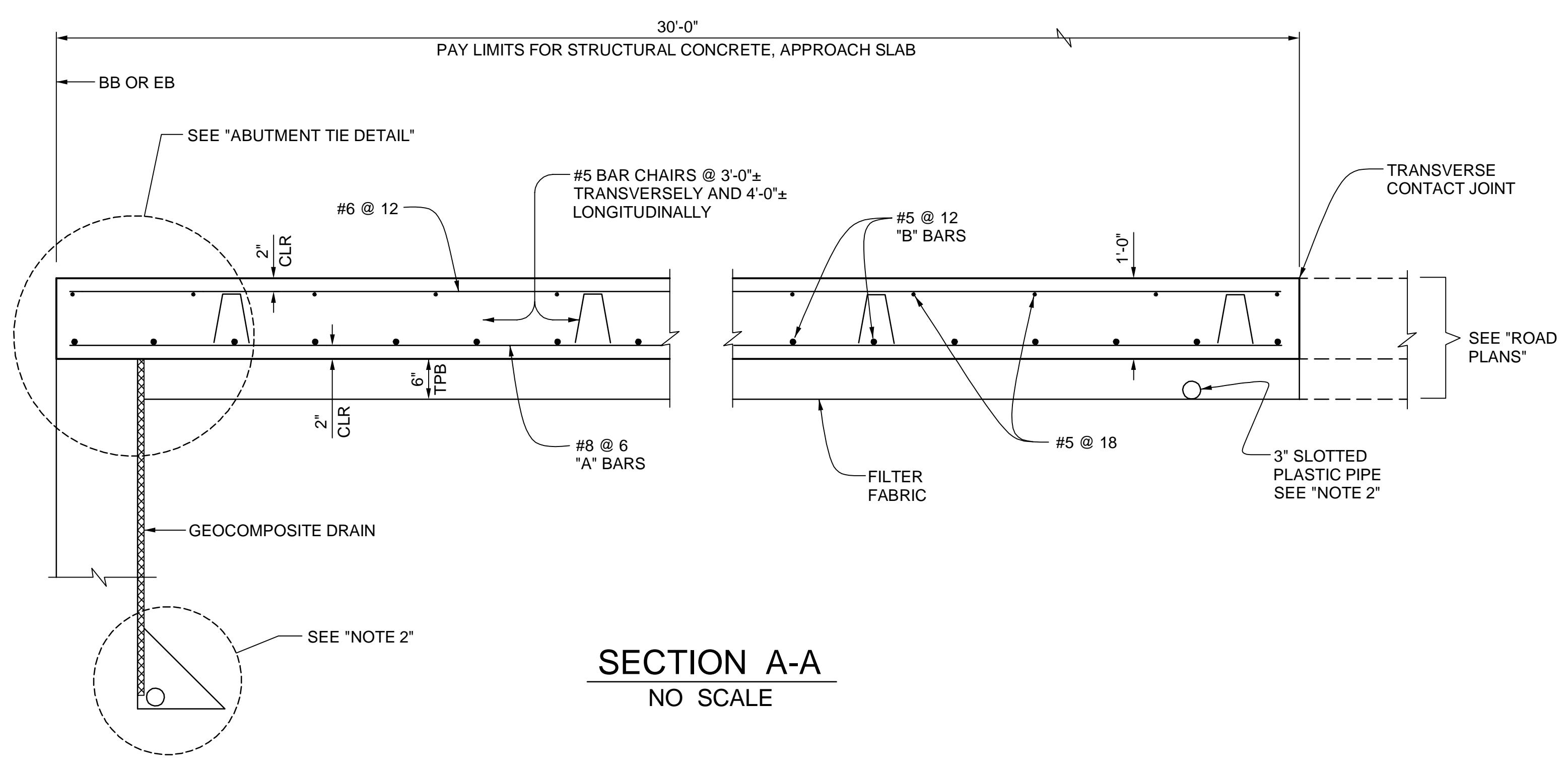
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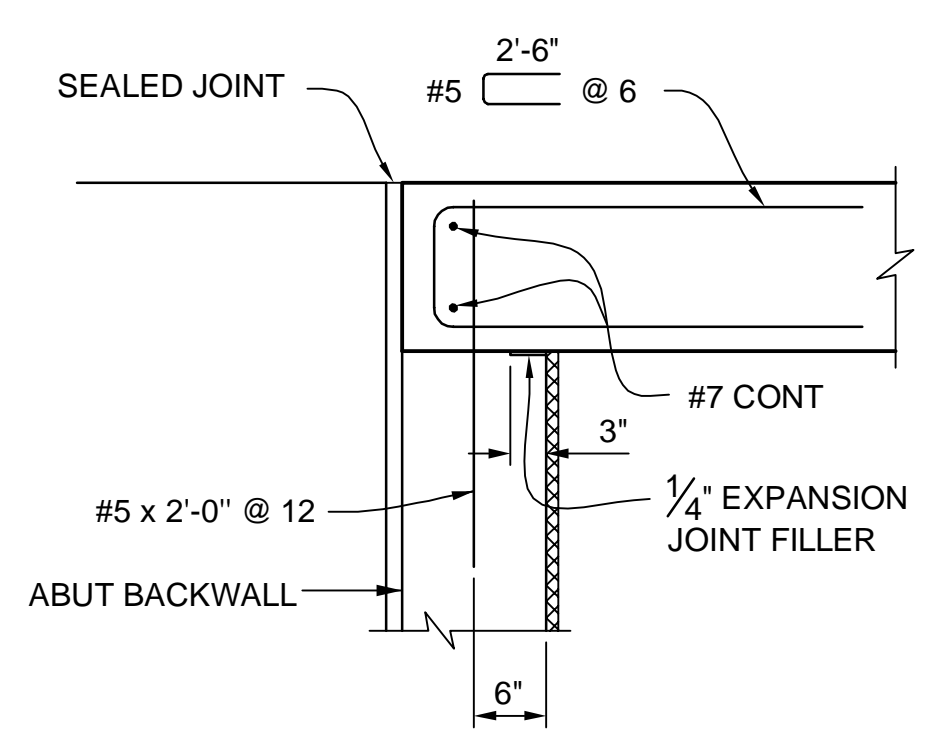
**SECTION B-B**  
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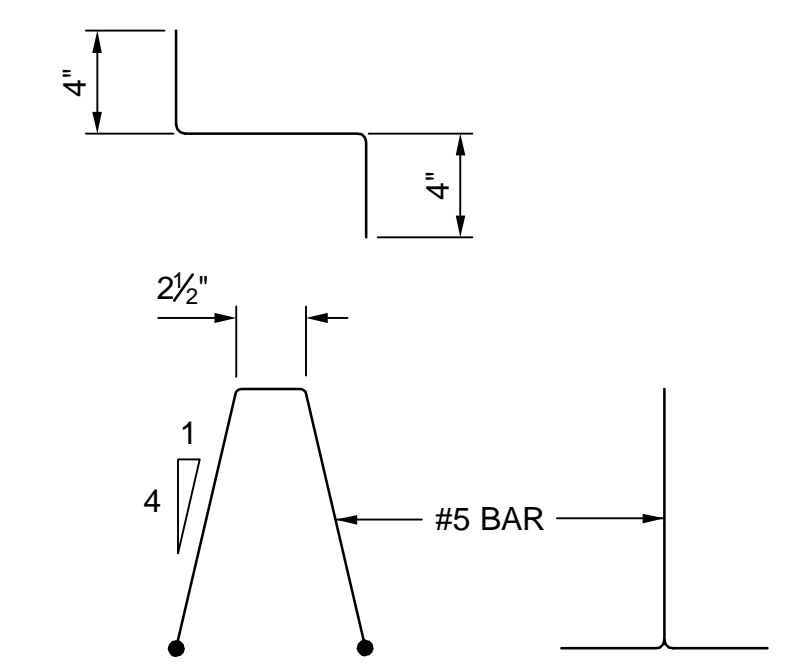
**SECTION C-C**  
NO SCALE



**SECTION A-A**  
NO SCALE



**ABUTMENT TIE DETAIL**  
NO SCALE



**BAR CHAIR DETAIL**  
NO SCALE

**LEGEND:**

EXPANDED POLYSTYRENE (REMOVE AS INDICATED ON OTHER SHEETS)

**NOTES:**

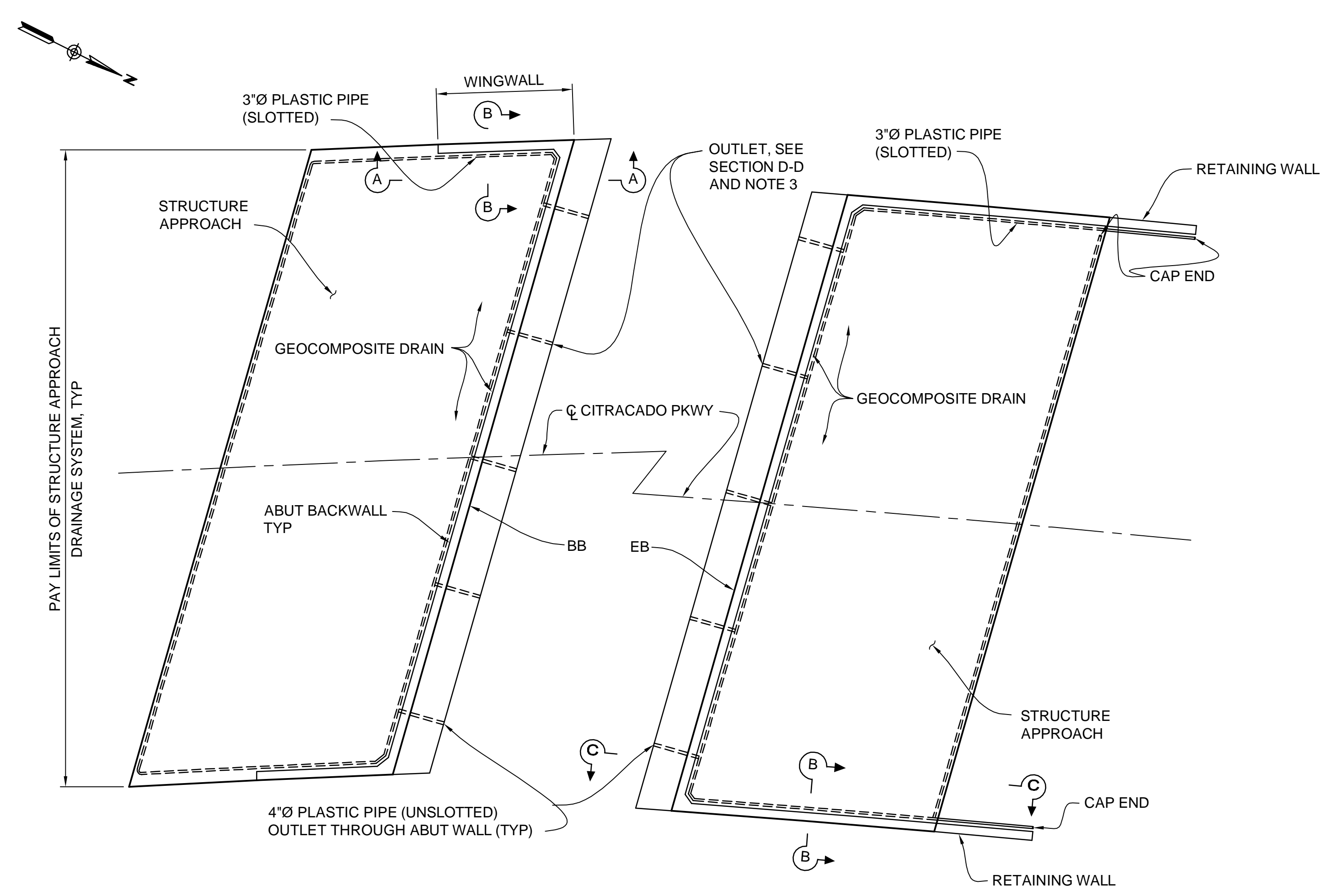
- FOR DETAILS NOT SHOWN, SEE "STRUCTURE PLANS".
- FOR DRAINAGE DETAILS, SEE "STRUCTURE APPROACH DRAINAGE DETAILS" SHEET.
- LONGITUDINAL CONSTRUCTION JOINTS, WHEN PERMITTED BY THE ENGINEER, SHALL BE LOCATED ON LANE LINES.
- FOR PARAPET REINFORCING, SEE "TYPICAL SECTION" SHEET.

DWG: PA 0274407 - Citracado Parkway\_ORA\_000\_CAD\_008\_Structural\Sheets\Bridges\0274407-SH1-S-BR-021.dwg

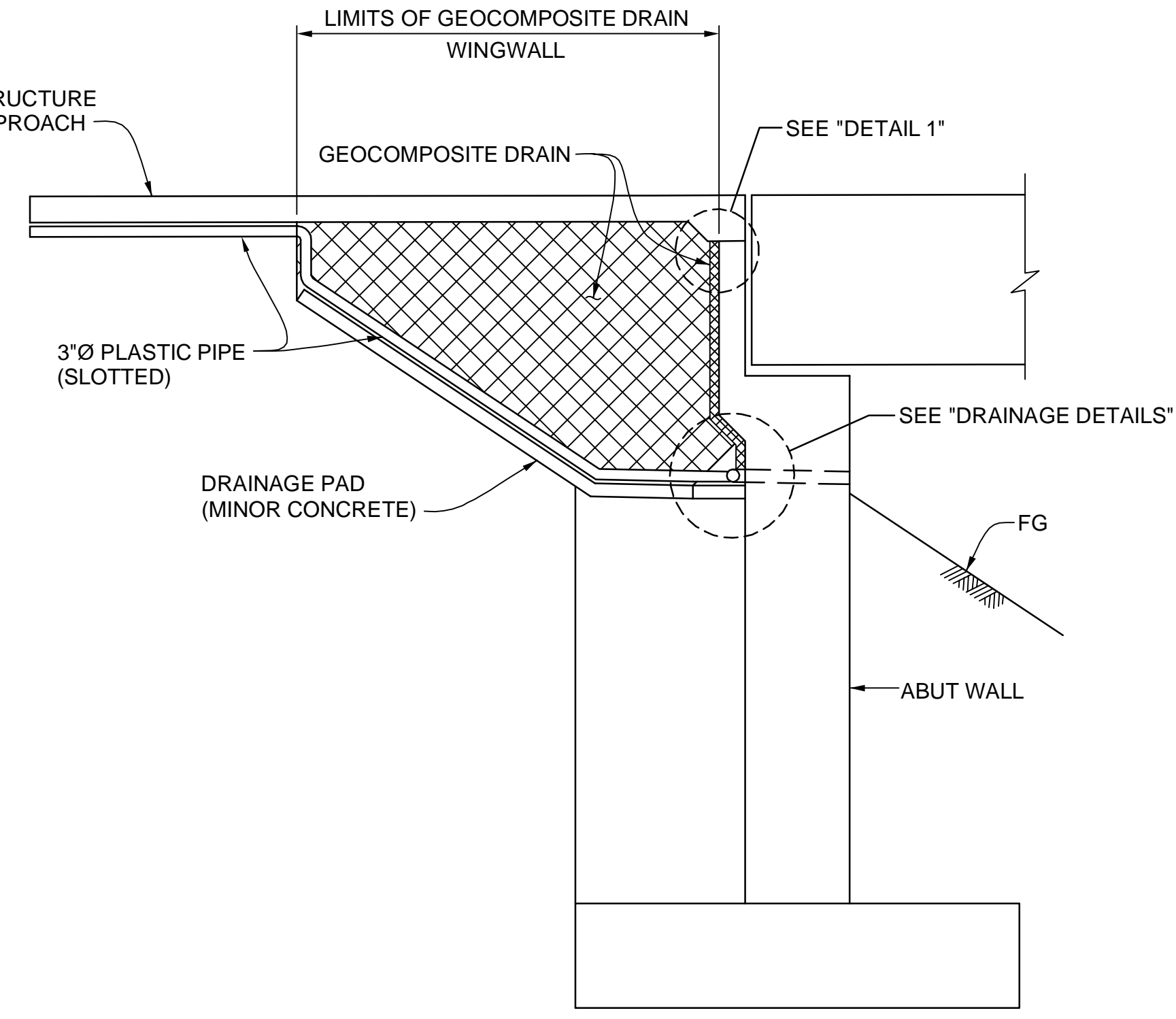
NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

| CONSTRUCTION RECORD | REFERENCES | Date | By | REVISIONS | App'd | Date | BENCH MARK                                                                                                                                                                                           | SCALE                                    | Office  | Designed By                         | Drawn By | Checked By | Submitted                               | Approved                 | CITY OF ESCONDIDO | DEPARTMENT OF PUBLIC WORKS     | Drawing No.     |
|---------------------|------------|------|----|-----------|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------|-------------------------------------|----------|------------|-----------------------------------------|--------------------------|-------------------|--------------------------------|-----------------|
| Contractor          |            |      |    |           |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 842.965 DATUM: NGVD 29. | Horizontal AS SHOWN<br>Vertical AS SHOWN | Traffic | JH                                  | RA       | JC         |                                         |                          | Bridge Plans for: | STRUCTURE APPROACH TYPE N(30S) |                 |
| Inspector           |            |      |    |           |       |      |                                                                                                                                                                                                      |                                          |         | Plans Prepared Under Supervision Of |          |            | By                                      | By                       | CITRACADO PARKWAY |                                |                 |
| Date Completed      |            |      |    |           |       |      |                                                                                                                                                                                                      |                                          |         | T.W. DUDLEY                         |          |            | Assistant City Engineer of Public Works | Director of Public Works |                   |                                | Sheet 39 of 184 |

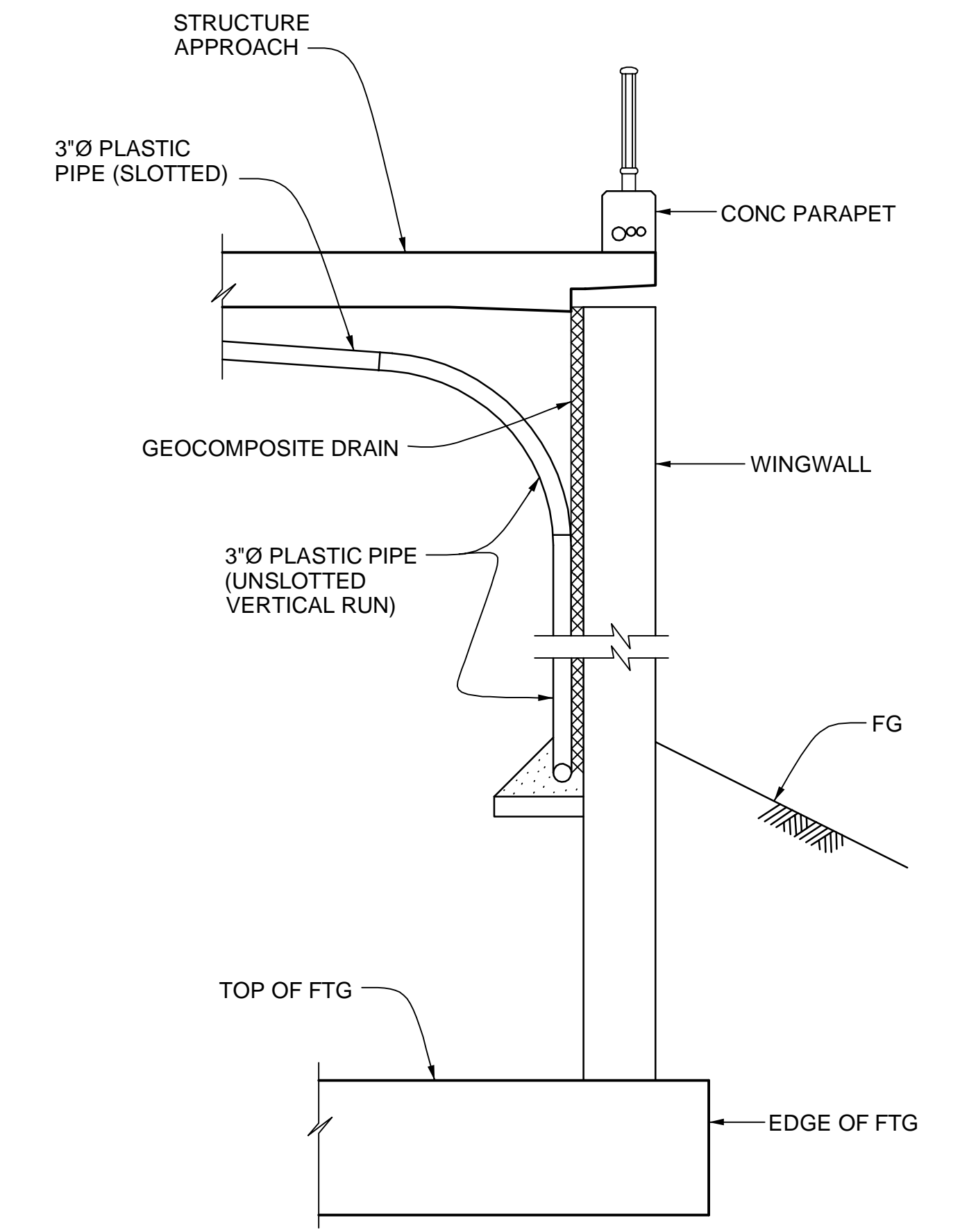




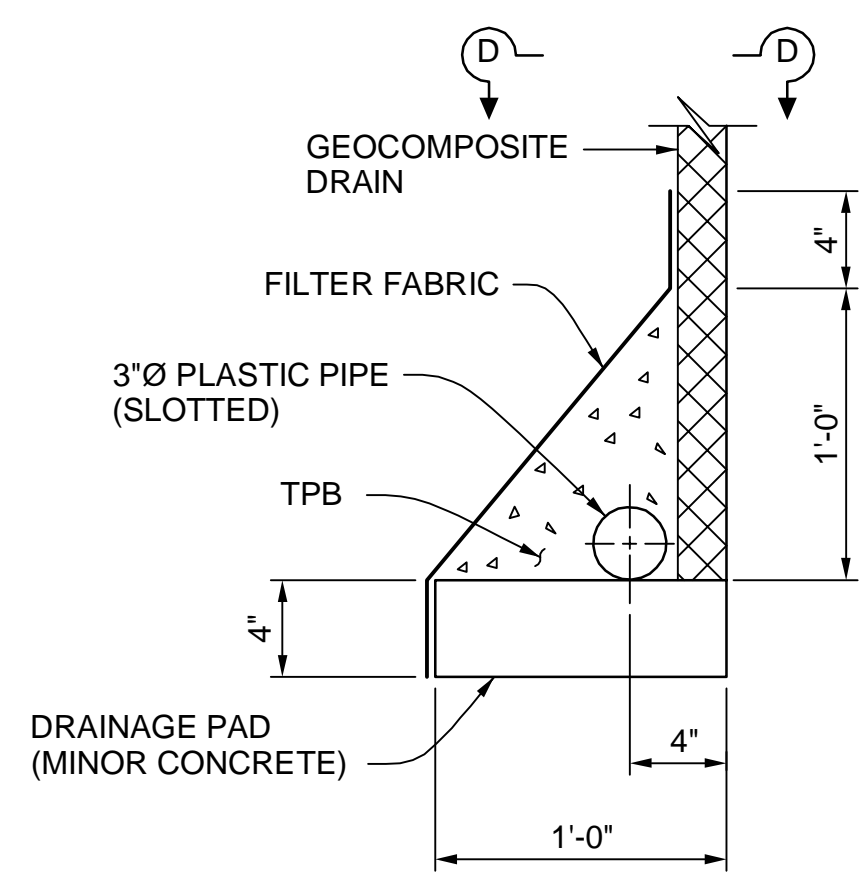
**PLAN**  
1" = 10'



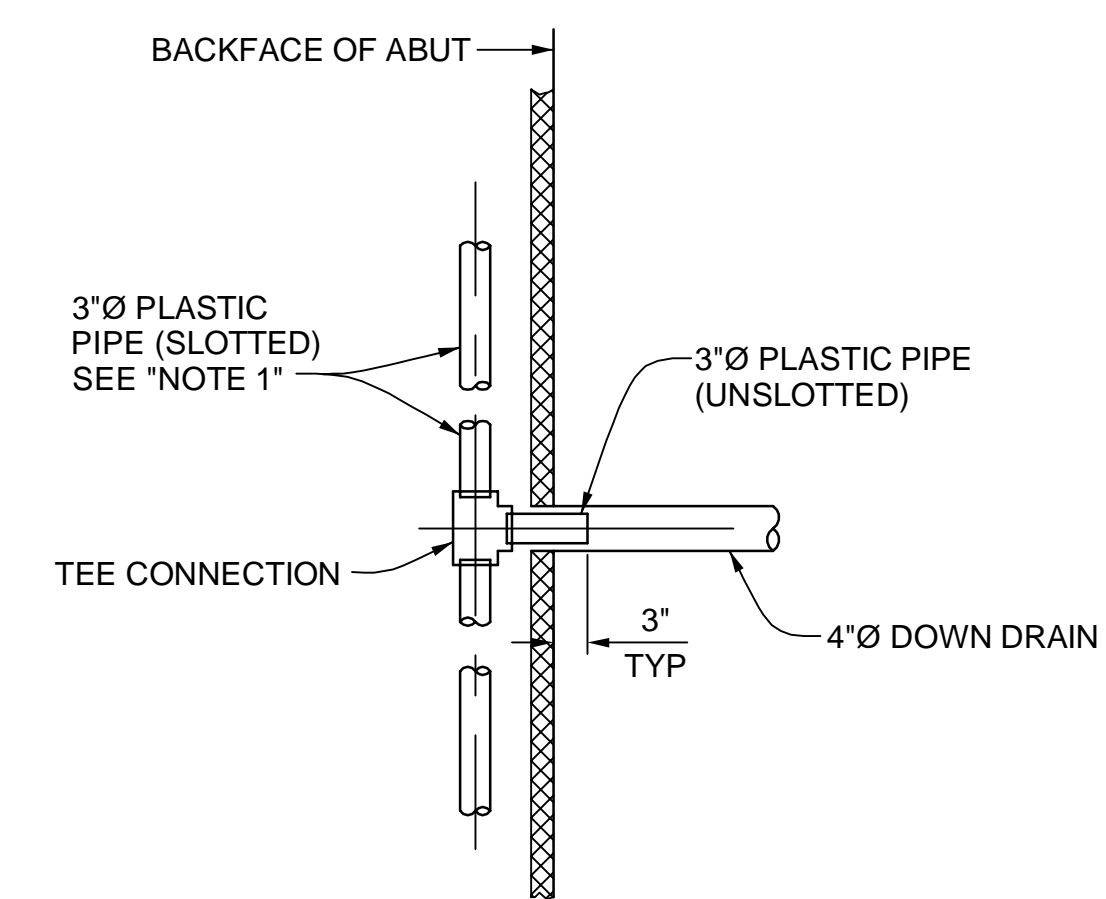
**SECTION A-A**  
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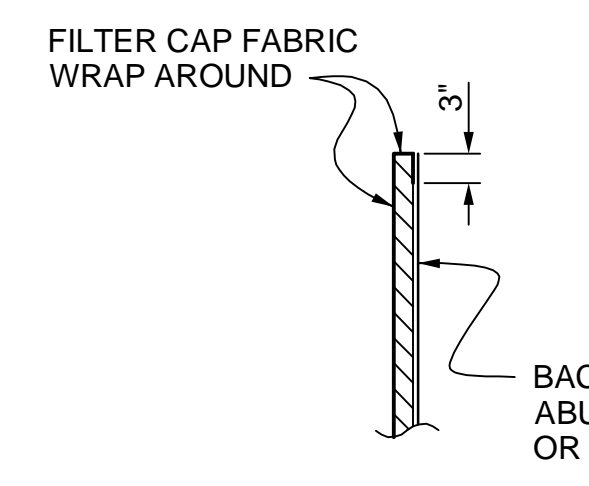
**SECTION B-B**  
NO SCALE



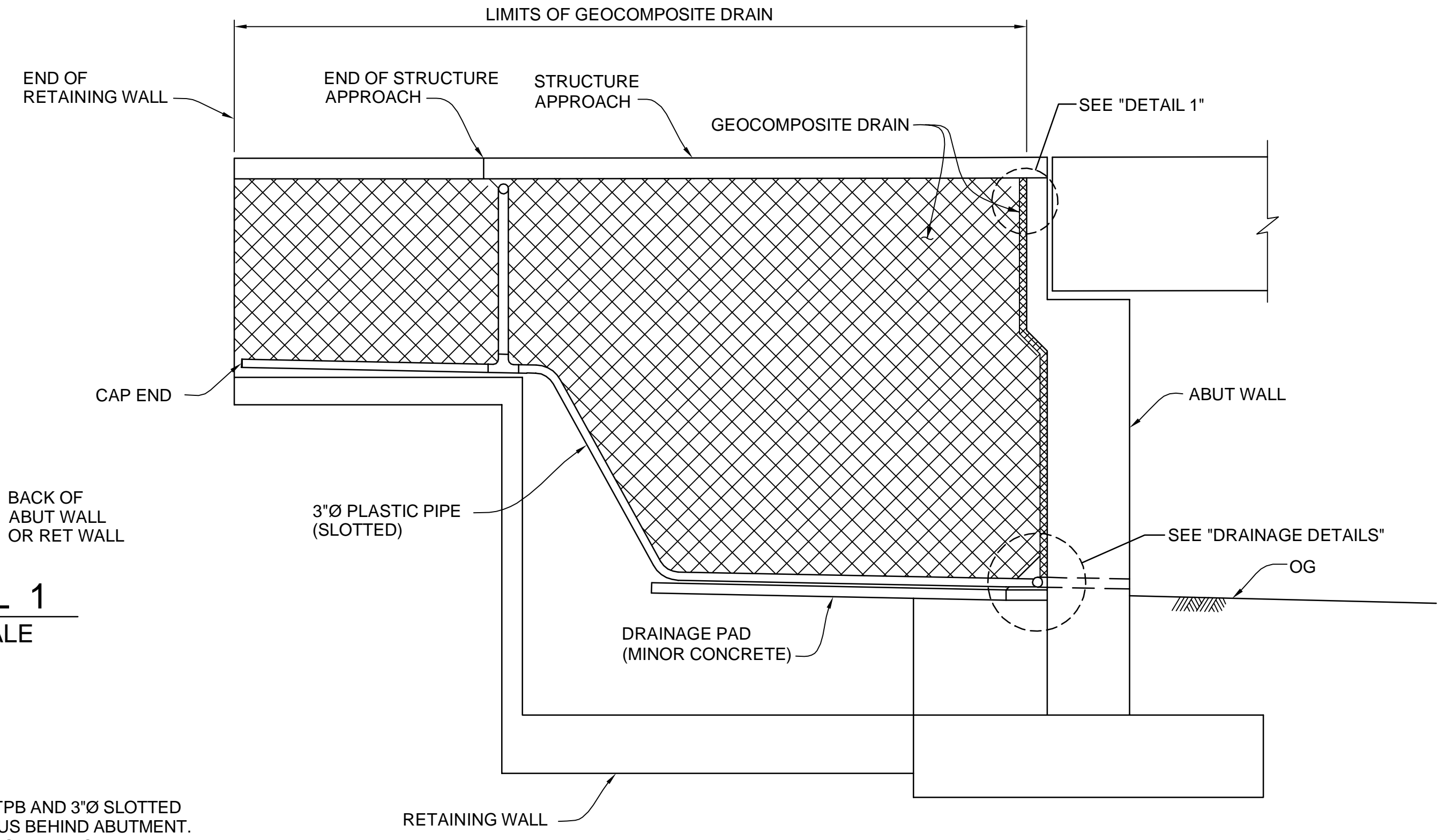
**DRAINAGE DETAILS**  
NO SCALE



**SECTION D-D**  
NO SCALE



**DETAIL 1**  
NO SCALE



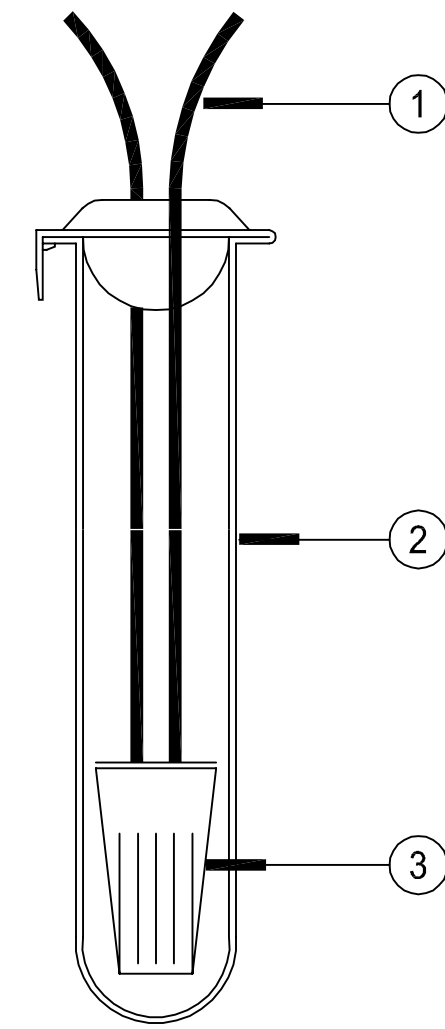
**SECTION C-C**  
NO SCALE

- NOTES:**
1. GEOCOMPOSITE DRAIN, TPB AND 3" SLOTTED PLASTIC PIPE CONTINUOUS BEHIND ABUTMENT. CAP ENDS OF PIPE AS SHOWN. PROVIDE "TEE" CONNECTION AT EACH 4"Ø DRAIN.
  2. BENDS AND JUNCTIONS IN 3" PLASTIC PIPE ARE 2'-6" RADIUS MINIMUM.
  3. FOR LOCATIONS OF OUTLET, SEE "ABUTMENT 1 LAYOUT" AND "ABUTMENT 3 LAYOUT" SHEET.

**NOTE:**  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

| CONSTRUCTION RECORD | REFERENCES | Date | By | REVISIONS | App'd | Date | BENCH MARK                                                                                                                                                                                           | SCALE                                    | Office  | Designed By                               | Drawn By | Checked By | Submitted                                           | Approved                             | CITY OF ESCONDIDO                      | DEPARTMENT OF PUBLIC WORKS             | Drawing No.     |
|---------------------|------------|------|----|-----------|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------|-------------------------------------------|----------|------------|-----------------------------------------------------|--------------------------------------|----------------------------------------|----------------------------------------|-----------------|
|                     |            |      |    |           |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "EGCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 842.965 DATUM: NGVD 29. | Horizontal AS SHOWN<br>Vertical AS SHOWN | Traffic | JH<br>Plans Prepared Under Supervision Of | RA       | JC         | By _____<br>Assistant City Engineer of Public Works | By _____<br>Director of Public Works | Bridge Plans for:<br>CITRACADO PARKWAY | STRUCTURE APPROACH<br>DRAINAGE DETAILS | Sheet 40 of 184 |



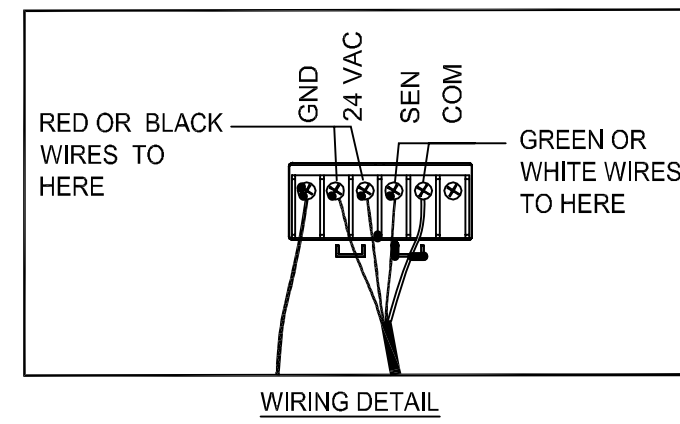


- LEGEND**
1. LOW VOLTAGE WIRES
  2. POLY TUBE PRE-FILLED WITH WATERPROOF GEL
  3. WIRE CONNECTOR. WIRES SHALL BE PRE-STRIPPED OF 1/2" OF THE INSULATION PRIOR TO INSERTION INTO THE CONNECTOR. TWIST CONNECTOR ONTO WIRES TO SEAT FIRMLY.

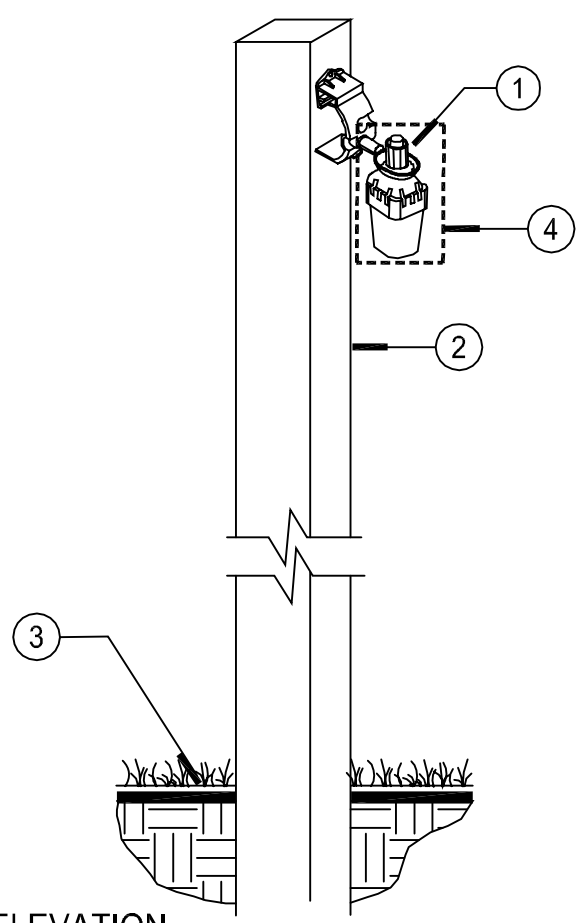
SECTION/ELEVATION

**D WIRE CONNECTORS**

PG. 181 REF. AS01 SCALE: N.T.S.



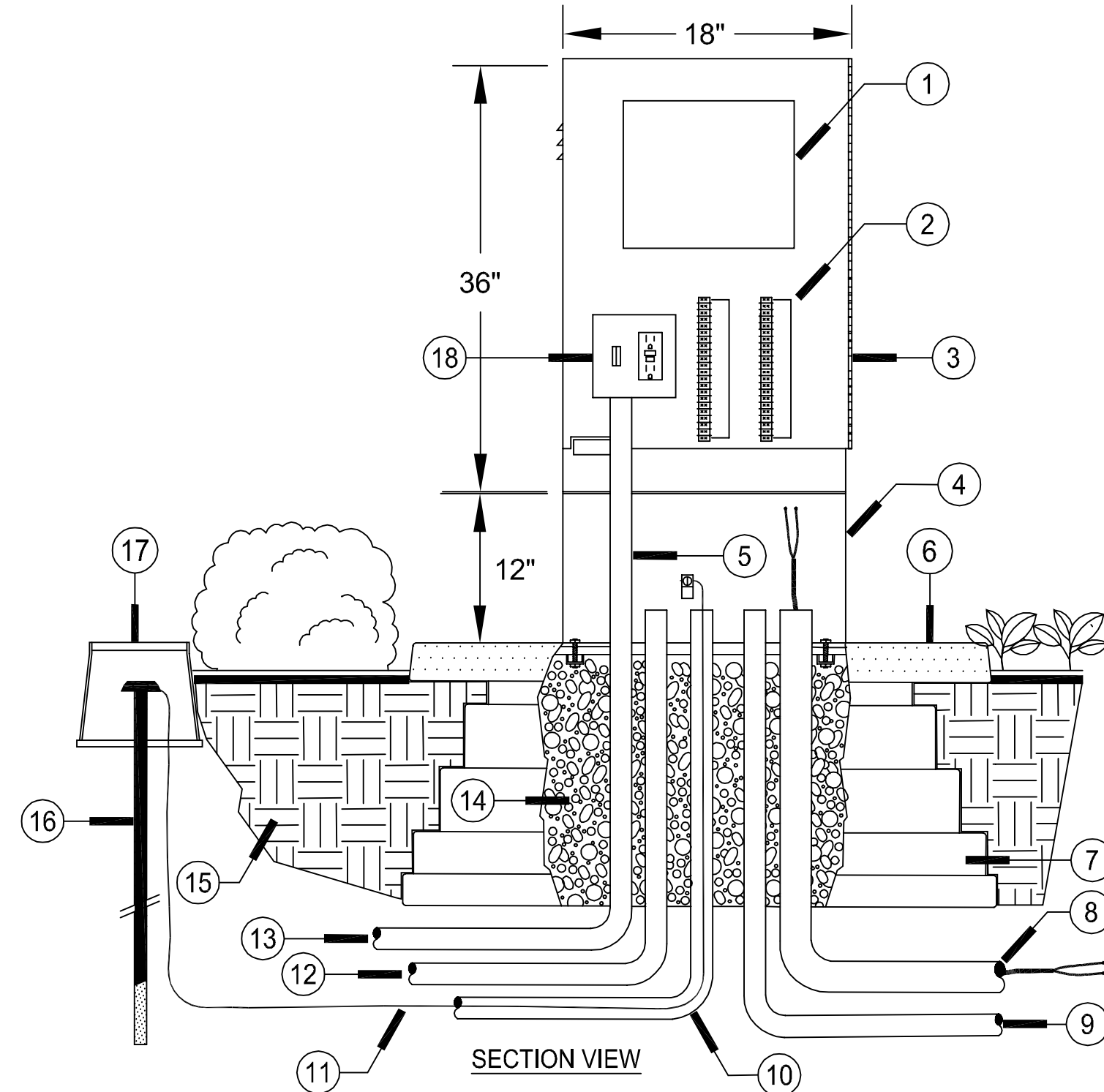
- LEGEND**
1. RAIN SENSOR: RAIN BIRD MODEL WR2, WIRELESS SENSOR MAXIMUM DISTANCE UP TO 800' FROM RECEIVER (LINE OF SIGHT). PRACTICAL INSTALLATION - UP TO 200'
  2. SUITABLE POST, POLE, WALL, OR ROOF GUTTER MOUNT. MOUNT IN LOCATION WHERE SENSOR HAS 360 DEGREE VIEW OF THE SKY, CAN RECEIVE FULL SUN, IS OPEN TO RAINFALL AND OUT OF SPRINKLER SPRAY PATTERN
  3. FINISH GRADE
  4. VANDAL PROOF CONTAINER



SECTION / ELEVATION

**C WIRELESS RAIN SENSOR**

PG. 181 REF. AS01 SCALE: N.T.S.



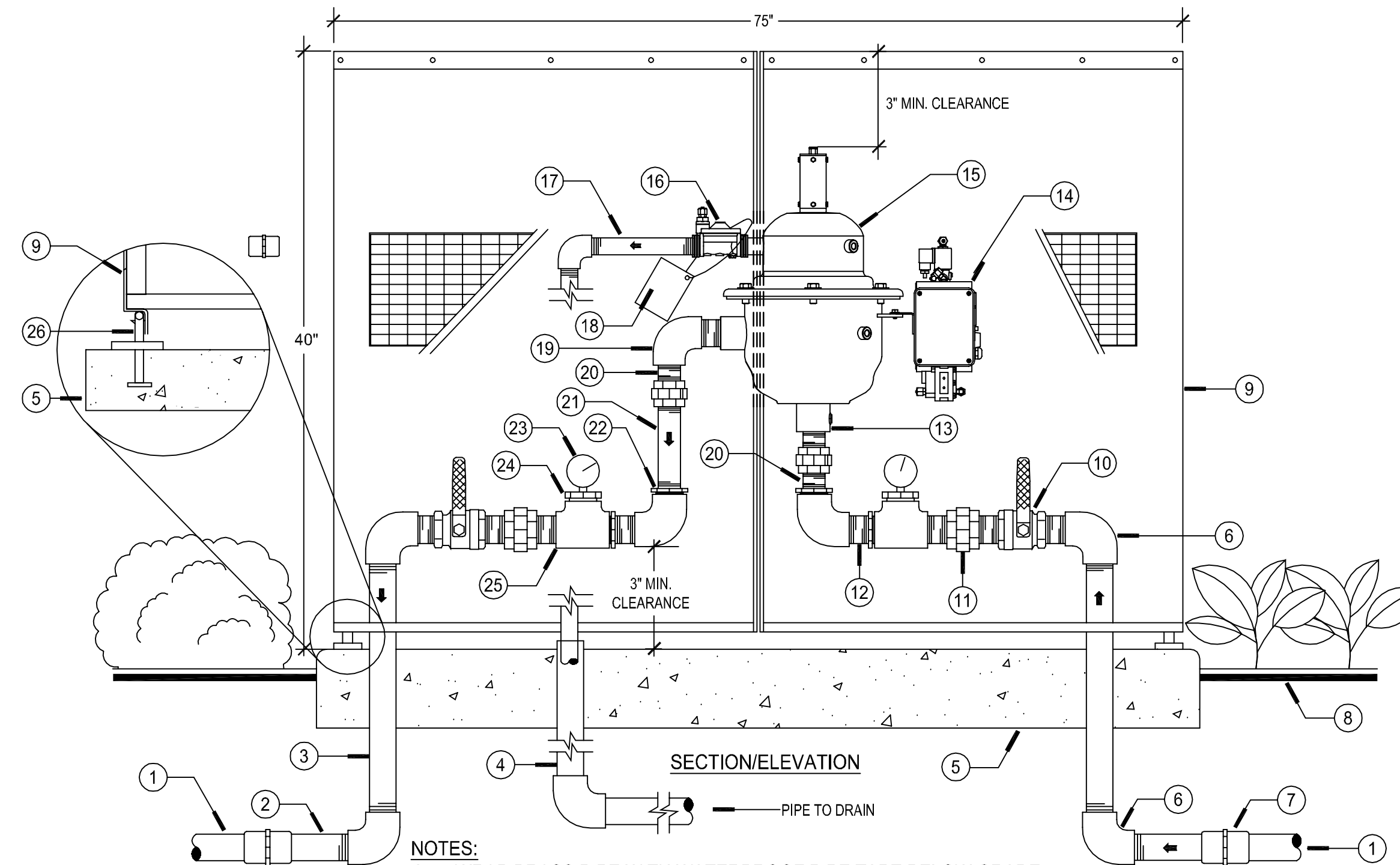
- NOTES:**
- CONTROLLER GROUNDING SYSTEM SHALL REQUIRE A COPPER CLAD GROUND PLATE (NOT SHOWN HERE) IN ADDITION TO THE 8" GROUND ROD. PLATE SIZES MAY BE 1/32" x 4" x 96" OR 1/32" x 18" x 24" IN SIZE. REFER TO LEGEND FOR SPECIFICATION AND GROUNDING DETAILS WITHIN PACKAGE FOR ADDITIONAL INFORMATION.
  - GROUNDING RODS AND PLATES SHALL BE COMPLETELY SURROUNDED WITH MINIMUM 1 INCH THICKNESS OF GROUNDING ENHANCEMENT MATERIAL PER GROUNDING EQUIPMENT MANUFACTURERS. REFER TO MANUFACTURERS SPECIFICATIONS FOR ADDITIONAL INFORMATION

**LEGEND**

1. IRRIGATION CONTROLLER, INSTALLED WITHIN ENCLOSURE, REFER TO LEGEND FOR SPECIFICATION
2. CONTROLLER ENCLOSURE TERMINAL STRIP FOR REMOTE CONTROL VALVE WIRE CONNECTION
3. FRONT OPENING STAINLESS STEEL PEDESTAL. REFER TO LEGEND FOR SPECIFICATION
4. 12" RISER PEDESTAL EXTENSION. REFER TO LEGEND FOR SPECIFICATION
5. 120 VOLT SERVICE IN ELECTRICAL CONDUIT
6. PREFORMED ALUMINUM PAD
7. STRONGBOX (V.I.T.) ENCLOSURE MOUNTING PAD 'QUICKPAD' WITH PREFORMED ALUMINUM PAD, PLASTIC BASE AND ALL STAINLESS STEEL HARDWARE
8. 1-1/4" SCH 40 ELECTRICAL CONDUIT WITH SWEEP ELBOW FOR 2-WIRE CABLE
9. 3/4" SCH 40 ELECTRICAL CONDUIT WITH SWEEP ELBOW FOR HARDWIRED PHONE COMMUNICATION LINE, INSTALL ONLY IF REQUIRED
10. 3" SCH 40 ELECTRICAL CONDUIT WITH SWEEP EL FOR GROUND WIRE
11. #6 AWG GROUND WIRE. PROVIDE ONE WIRE EACH TO GROUND ROD AND TO GROUND PLATE
12. 1" SCH 40 ELECTRICAL CONDUIT WITH SWEEP ELBOW FOR FLOW SENSOR CABLE. INSTALL ONLY IF SEPARATE FLOW SENSOR WIRES ARE REQUIRED
13. SCH 40 ELECTRICAL CONDUIT WITH SWEEP ELBOW FOR 120 VAC POWER - SIZE PER ELECTRICAL REQUIREMENTS
14. FILL BASE OF 'QUICKPAD' WITH 3/4" CRUSHED GRAVEL TO TOP OF BASE UNIT
15. COMPACTED SITE SOIL
16. COPPER GROUND ROD, MINIMUM SPECIFICATION: 5/8"X8" WITH CADWELD 'ONE-SHOT' CONNECTION. INSTALL INSIDE A 10" ROUND BOX. GROUND ROD TO BE LOCATED WITHIN 8' TO 15' OF CONTROLLER. CONTRACTOR SHALL INSTALL PER CONTROLLER MANUFACTURER'S SPECIFICATION
17. 10" ROUND SPECIFICATION GRADE VALVE BOX
18. ON/OFF SWITCH AND GFI OUTLET RECEPTACLE AS PART OF ENCLOSURE ASSEMBLY

**B DECODER CONTROLLER ASSEMBLY**

PG. 181 REF. AS01 SCALE: N.T.S.



- NOTES:**
- WRAP BRASS PIPE WITH WATERPROOF PIPE TAPE BELOW GRADE.
  - ROUTE 2" PVC PIPE TO SUMP, FRENCH DRAIN, OR SEWER SYSTEM. CONTRACTOR SHALL CONFIRM WITH PROJECT ENGINEER AS TO THE BEST APPLICATION. INSTALL 2" PVC PIPE THROUGH CONCRETE SLAB TO DRAIN.
  - USE OUTLET VALVE SIZED BRASS NIPPLES AND FITTINGS FOR FLUSH PIPE AS REQUIRED. ROUTE FLUSH PIPE TO 1/2" BELOW TOP OF SLAB INSIDE 2" PIPE.

**LEGEND**

1. MAINLINE PIPE, REFER TO LEGEND FOR SPECIFICATION. SEE PLAN FOR SIZE AND DEPTH PER SPECIFICATION
2. PVC SCH 80 NIPPLE, THRD x SOLVENT WELD, MIN. 6" LENGTH, MAINLINE SIZE (2 REQ.)
3. BRASS NIPPLE, LENGTH AS REQUIRED, MAINLINE SIZE (2 REQ.)
4. 2" SCH 40 PVC PIPE AND FITTINGS. ROUTE PIPE TO SUMP, FRENCH DRAIN, OR SEWER SYSTEM.
5. CONCRETE SLAB, 33"x84"x4"
6. BRASS ELBOW, MAINLINE SIZE (6 REQ.)
7. MAINLINE TRANSITION FITTING, AS REQUIRED. MAINLINE SIZE (2 REQ.)
8. FINISH GRADE
9. V.I.T. (STRONG BOX) ALUMINUM ENCLOSURE, REFER TO LEGEND FOR SPECIFICATION
10. WATTS BALL VALVE, LINE SIZE, MODEL B-6080-SS-SH (2 REQ.) WITH STAINLESS STEEL BALL AND HANDLE
11. BRASS UNION, MAINLINE SIZE (2 REQ.) FILTER SIZE (2 REQ.)
12. BRASS NIPPLE, 3" LENGTH, MAINLINE SIZE (8 REQ.)
13. FILTER INLET
14. OMNITROL-100 BATTERY OPERATED CONTROLLER
15. SELF-CLEANING FILTER, REFER TO LEGEND FOR SPECIFICATION
16. FILTER CONTROLLED OUTLET VALVE (COV)
17. BRASS PIPE AND ELBOW, NIPPLE LENGTH AS NECESSARY. ROUTE FLUSH PIPE TO 2" PVC PIPE IN CONCRETE SLAB. PROVIDE PIPE SUPPORT AS MAY BE NECESSARY TO REDUCE WEIGHT STRESS ON VALVE
18. PURPLE ID TAG, INSCRIPTION, "RECYCLED WATER -DO NOT DRINK", IN ENGLISH AND SPANISH
19. BRASS ELBOW, FILTER OUTLET SIZE
20. BRASS NIPPLE, 3" LENGTH, FILTER OUTLET SIZE (4 REQ.)
21. BRASS NIPPLE, LENGTH AS REQUIRED, FILTER OUTLET SIZE (1 REQ.)
22. BRASS BUSHING, LINE SIZE x FILTER SIZE, (2 REQ.)
23. LIQUID-FILLED PRESSURE GAUGE, RAIN BIRD MODEL RBG-L-160 OR EQUAL (2 REQ.)
24. BRASS BUSHING, TEE SIZE x 3/8", FOR PRESSURE GAUGE FITTING (2 REQ.)
25. BRASS TEE, LINE SIZE (2 REQ.)
26. ANCHOR ROD (TYP.)

**A FILTRATION ASSEMBLY INSTALLATION**

PG. 181 REF. AS01 SCALE: N.T.S.

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| CONSTRUCTION RECORD | REFERENCES | Date | By | REVISIONS | App'd | Date | BENCH MARK                                                                                                                                                                                     | SCALE                                | Office                     | Designed By                                           | Drawn By | Checked By | Submitted                                           | Approved                             | CITY OF ESCONDIDO                                          | DEPARTMENT OF PUBLIC WORKS | Drawing No.     |
|---------------------|------------|------|----|-----------|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------|-------------------------------------------------------|----------|------------|-----------------------------------------------------|--------------------------------------|------------------------------------------------------------|----------------------------|-----------------|
| Contractor          |            |      |    |           |       |      | CONTROL PT 2046 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "COS 1992-2045" IN ASPHALT LOCATED AT THE INT. OF OTRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 642.965 DATUM: NGVD 29. | Horizontal<br>N/A<br>Vertical<br>N/A | Office<br>Filed<br>Traffic | DN<br>Plans Prepared Under Supervision Of<br>DICK ROL | DN       | DR         | By _____<br>Assistant City Engineer of Public Works | By _____<br>Director of Public Works | PLANS FOR THE IMPROVEMENTS OF:<br><b>CITRACADO PARKWAY</b> | IRRIGATION DETAILS         | Sheet 81 of 124 |



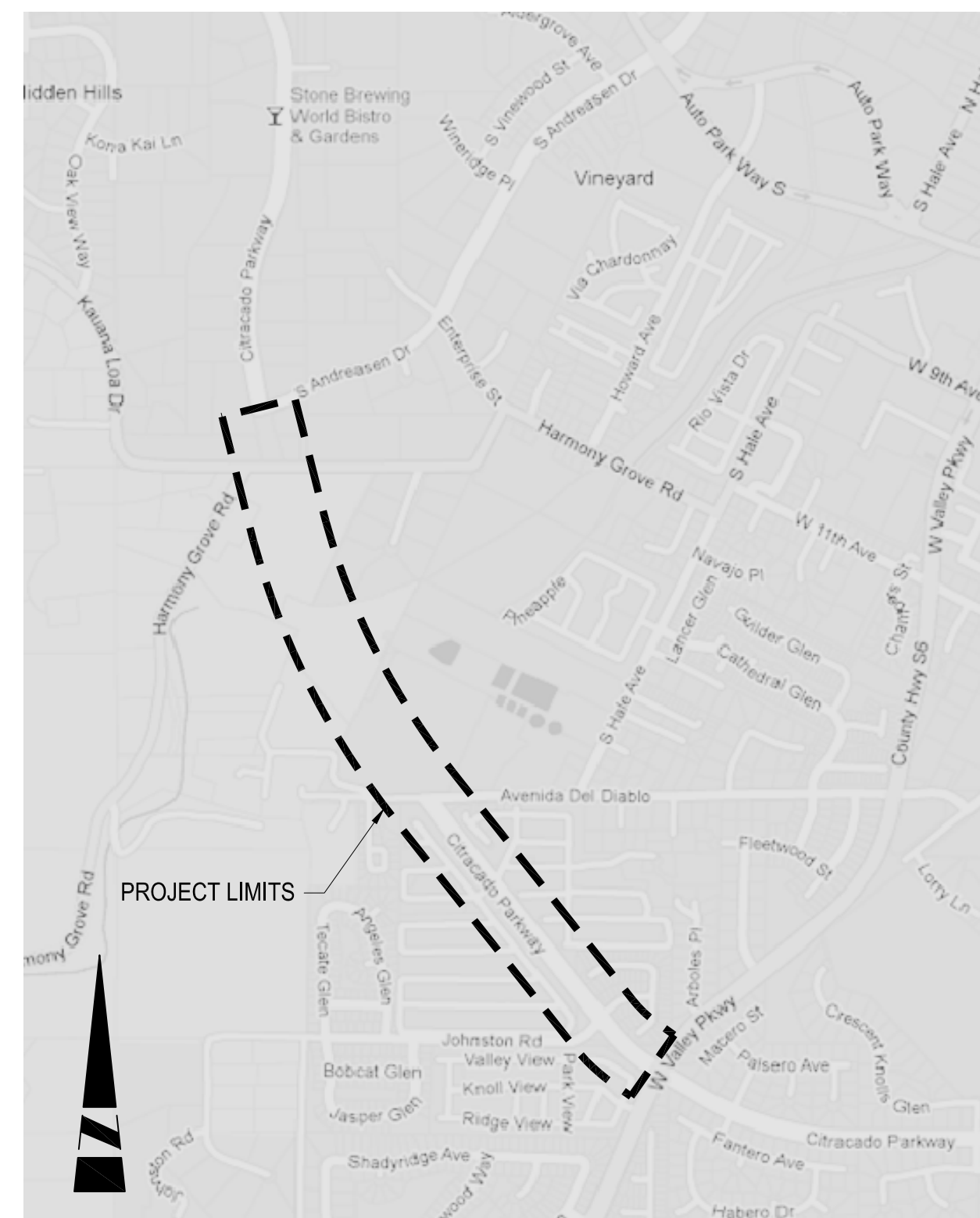
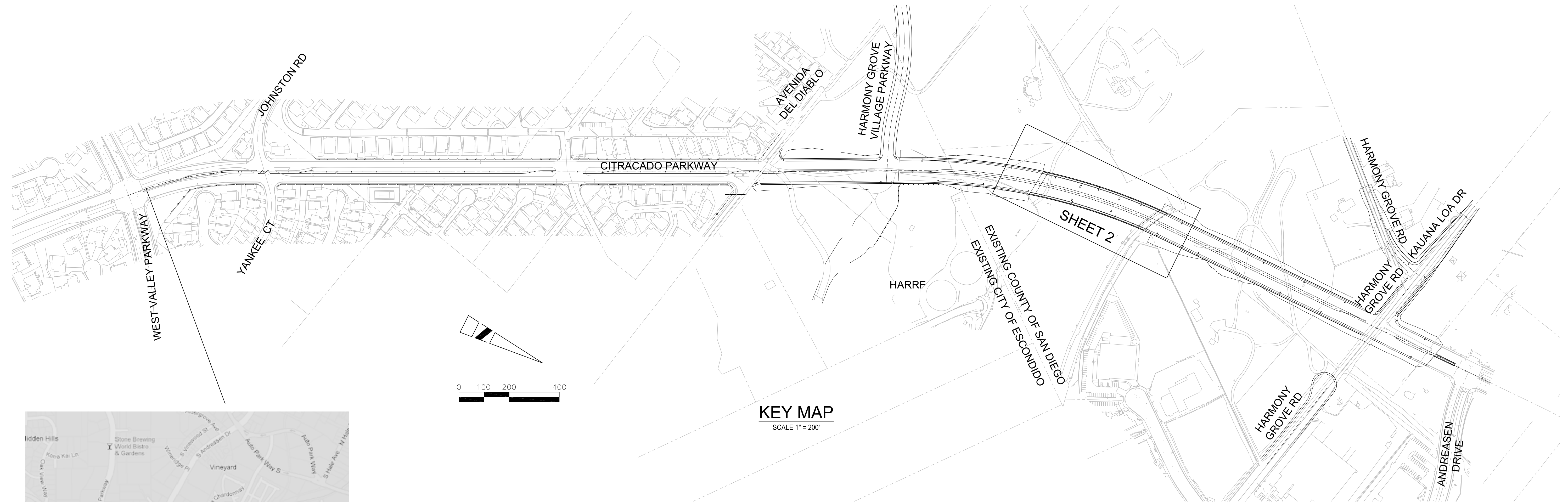
## **ATTACHMENT 4**

### **MITIGATION INFORMATION**

1. City of Escondido, Citracado Parkway Wetlands Restoration Concept Plan, May 2015, Sheets 1-4.
2. Conceptual Wetland Mitigation and Revegetation for HARRF, Allocated Mitigation Areas for HARRF and Emergency Sewer Repair Projects, Figure 6.

# CITRACADO PARKWAY WETLAND RESTORATION CONCEPT PLAN

WETLAND RESTORATION 50% REVIEW - 12/07/12



**LOCATION MAP**  
NO SCALE

### DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE LANDSCAPE ARCHITECT OF WORK FOR THIS PROJECT. THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF ESCONDIDO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS LANDSCAPE ARCHITECT OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

DICK ROL \_\_\_\_\_ DATE  
R.L.A. # 4783  
12/31/12

### OWNER / PERMITEE:

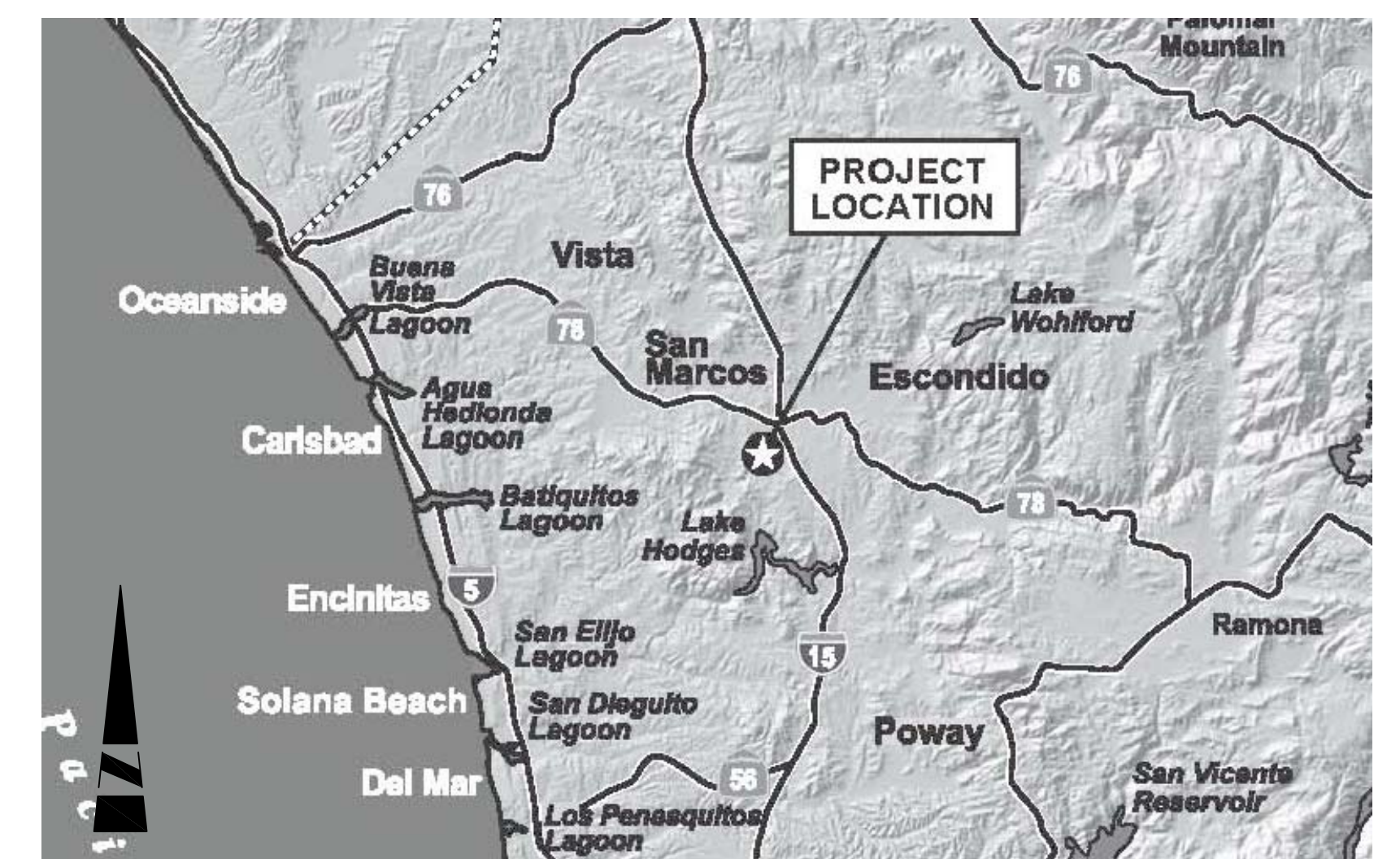
OWNER/DEVELOPER NAME: CITY OF ESCONDIDO  
ADDRESS: 201 NORTH BROADWAY, ESCONDIDO, CA. 92025  
TEL NO:  
FAX NO:

### LANDSCAPE ARCHITECT:

AECOM  
1420 KETTNER BLVD STE. 500,  
SAN DIEGO, CA. 92101  
TEL NO: (619) 233-1454  
FAX NO: (619) 233-0952

### SHEET INDEX

| NO. | DESCRIPTION           |
|-----|-----------------------|
| 1   | TITLE SHEET           |
| 2   | RESTORATION PLAN      |
| 3   | PLANT LISTS & DETAILS |
| 4   | RESTORATION NOTES     |

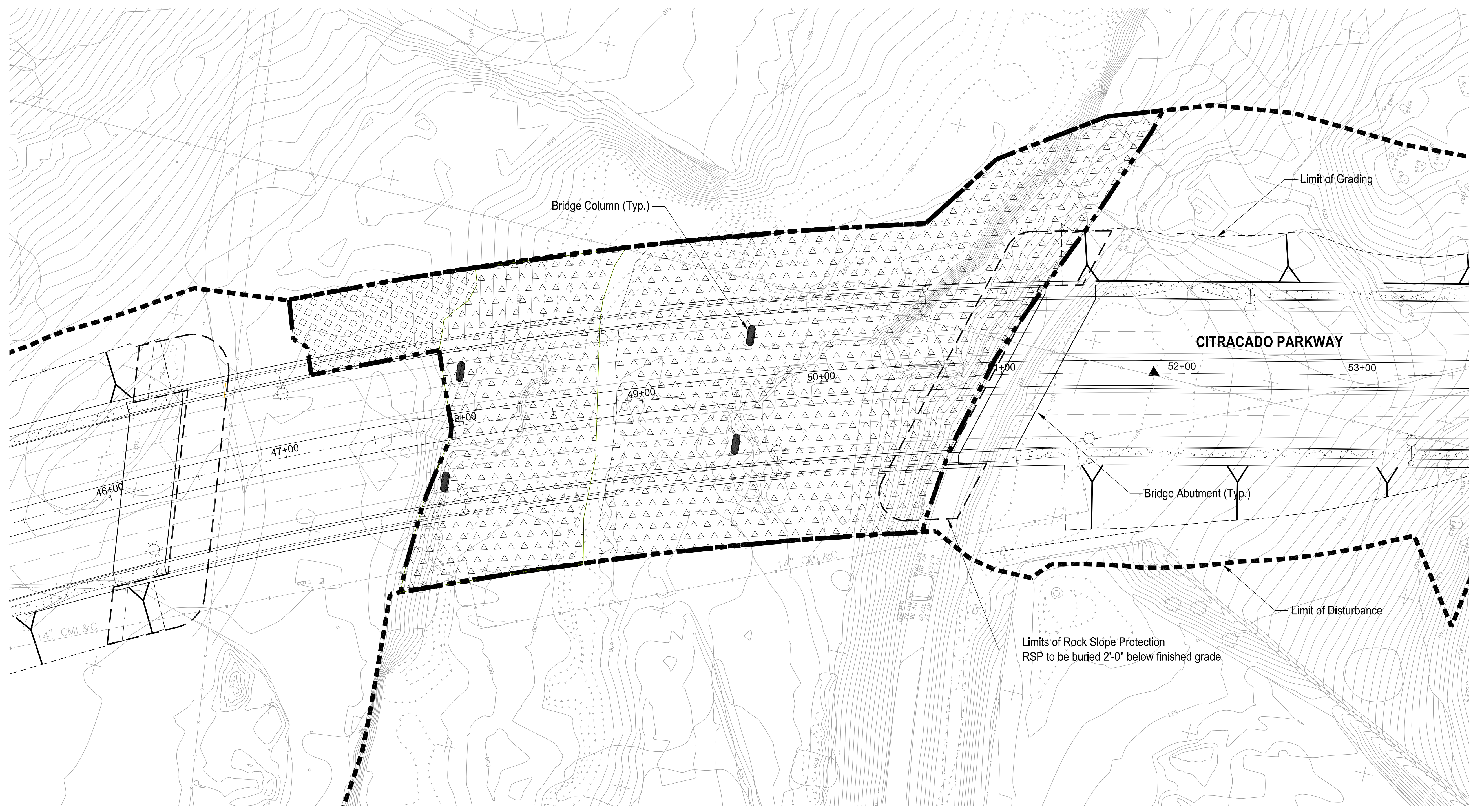


**VICINITY MAP**  
NO SCALE



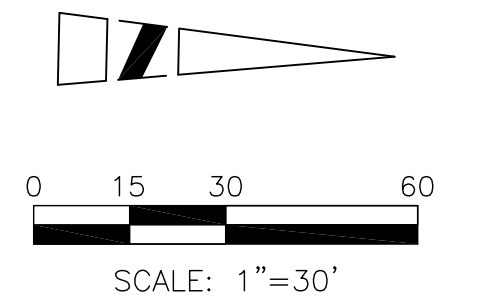
DWG: L:\Design and Landscape Architecture\Projects\Citracado Parkway\City\Sheets\WP-00 COVER SHEET.dwg

| CONSTRUCTION RECORD | REFERENCES | Date | By | REVISIONS | App'd | Date | BENCH MARK                                                                                                                                                                                           | SCALE      | Office  | Designed By                         | Drawn By | Checked By | Submitted                           | Approved                         | CITY OF ESCONDIDO                         | DEPT. OF ENGINEERING SERVICES | Drawing No.  |
|---------------------|------------|------|----|-----------|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|-------------------------------------|----------|------------|-------------------------------------|----------------------------------|-------------------------------------------|-------------------------------|--------------|
| Contractor          |            |      |    |           |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "ECCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 642.965 DATUM: NGVD 29. | Horizontal | Filmed  | DN                                  | MF       | DR         | By _____                            | By _____                         | PLANS FOR WETLAND RESTORATION:            | TITLE SHEET                   |              |
| Inspector           |            |      |    |           |       |      |                                                                                                                                                                                                      | Vertical   | Traffic | Plans Prepared Under Supervision Of |          |            | Date 12/31/12                       |                                  | CITRACADO PARKWAY AND WETLAND RESTORATION |                               | Sheet 1 of 4 |
| Date Completed      |            |      |    |           |       |      |                                                                                                                                                                                                      | None       |         | Dick Rol                            |          |            | Deputy Dir. of Engineering Services | Director of Engineering Services |                                           |                               |              |



**LEGEND**

- Container Planting
- Southern Willow Scrub
- Southern Willow Riparian Forest
- Restoration Area



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|                     |  |            |  |      |    |           |  |       |      |                                                                                                                                                                                                      |  |            |         |                                     |          |            |                 |                                     |                                  |                                           |                               |              |  |
|---------------------|--|------------|--|------|----|-----------|--|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|---------|-------------------------------------|----------|------------|-----------------|-------------------------------------|----------------------------------|-------------------------------------------|-------------------------------|--------------|--|
| CONSTRUCTION RECORD |  | REFERENCES |  | Date | By | REVISIONS |  | App'd | Date | BENCH MARK                                                                                                                                                                                           |  | SCALE      | Office  | Designed By                         | Drawn By | Checked By | Submitted       | Approved                            | CITY OF ESCONDIDO                |                                           | DEPT. OF ENGINEERING SERVICES | Drawing No.  |  |
| Contractor          |  |            |  |      |    |           |  |       |      | CONTROL PT 2045 PER RECORD OF SURVEY 14236. A 2.5" BRASS DISC STAMPED "ECCS 1992-2045" IN AC PAVEMENT LOCATED AT THE INT. OF CITRACADO PARKWAY AND AVENIDA DEL DIABLO. ELEV. 642.965 DATUM: NGVD 29. |  | Horizontal | Filmed  | DN                                  | MF       | DR         |                 |                                     |                                  |                                           | BURNING/BIOMASS RESTORATION:  |              |  |
| Inspector           |  |            |  |      |    |           |  |       |      |                                                                                                                                                                                                      |  | None       | Traffic | Plans Prepared Under Supervision Of |          |            | Date 12/31/12   | By                                  | By                               | CITRACADO PARKWAY AND WETLAND RESTORATION |                               |              |  |
| Date Completed      |  |            |  |      |    |           |  |       |      |                                                                                                                                                                                                      |  | None       |         | Dick Rol                            |          |            | R.L.A. No. 4783 | Deputy Dir. of Engineering Services | Director of Engineering Services |                                           |                               | Sheet 2 of 4 |  |







**Proposed Revegetation Types:**

- Freshwater Marsh - FWM
- Maintained Freshwater Marsh Channel - MFMC
- Coast Live Oak Riparian Woodland - ORF
- Sycamore Alluvial Woodland - SAW
- Southern Willow Scrub - SWS

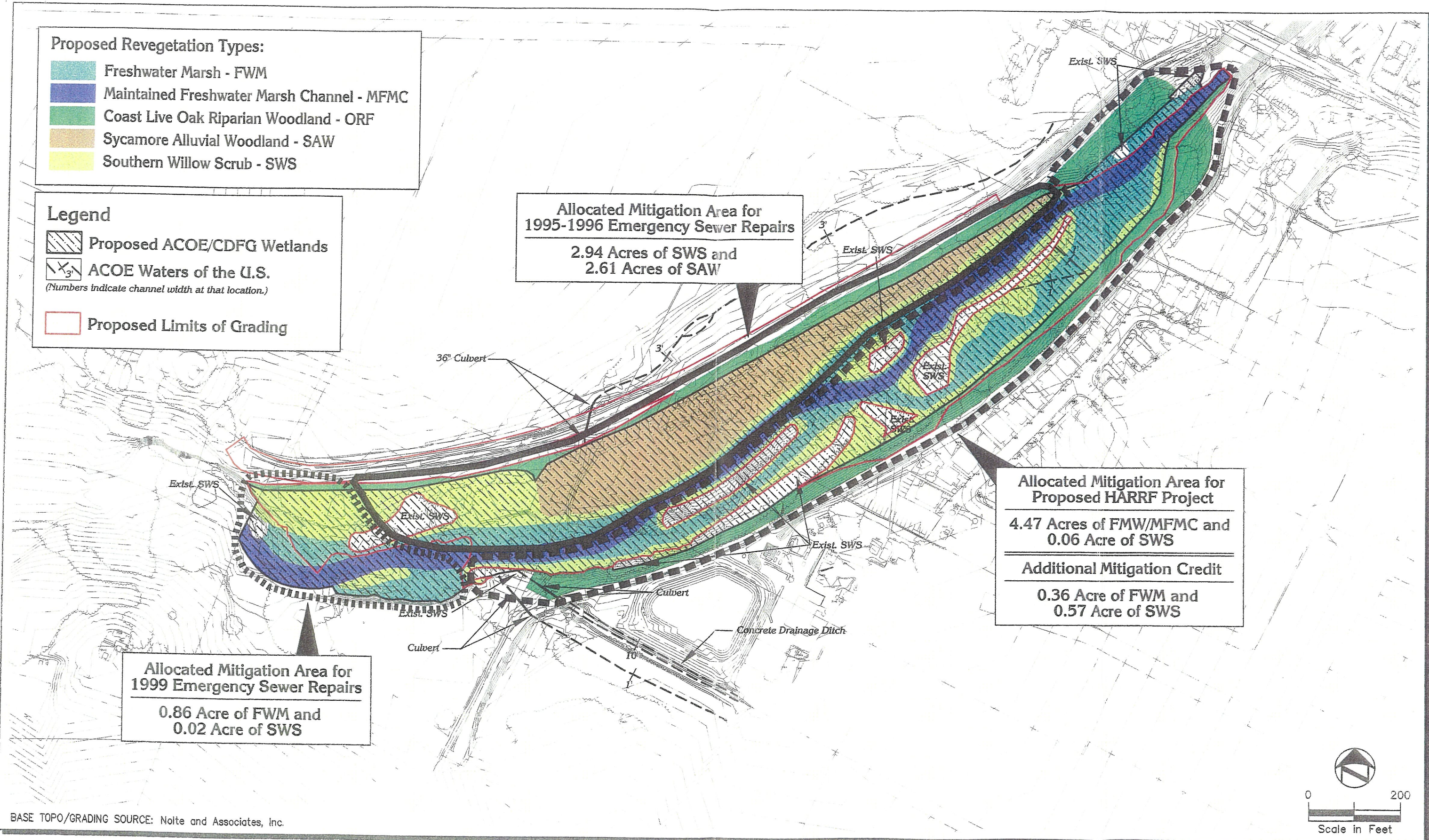
**Legend**

- Proposed ACOE/CDFG Wetlands
- ACOE Waters of the U.S.  
*(Numbers indicate channel width at that location.)*
- Proposed Limits of Grading

**Allocated Mitigation Area for  
1995-1996 Emergency Sewer Repairs**  
2.94 Acres of SWS and  
2.61 Acres of SAW

**Allocated Mitigation Area for  
Proposed HARRF Project**  
4.47 Acres of FMW/MFMC and  
0.06 Acre of SWS  
**Additional Mitigation Credit**  
0.36 Acre of FWM and  
0.57 Acre of SWS

**Allocated Mitigation Area for  
1999 Emergency Sewer Repairs**  
0.86 Acre of FWM and  
0.02 Acre of SWS



BASE TOPO/GRADING SOURCE: Nolte and Associates, Inc.

Conceptual Wetland Mitigation & Revegetation Plan for HARRF  
**Allocated Mitigation Areas for HARRF and Emergency Sewer Repair Projects** FIGURE  
6

## **ATTACHMENT 5**

### **CEQA MITIGATION REQUIREMENTS**

1. Final Environmental Impact Report, Citracado Parkway Extension Project, Appendices, SCH #2007041061, February 2012.

**Mitigation Monitoring and Reporting Program (MMRP)  
For the EIR for the Citracado Parkway Extension Project**

**PROJECT NAME:** Environmental Impact Report for the Citracado Parkway Extension Project (SCH #2007041061)

**PROJECT LOCATION:** City of Escondido, CA and unincorporated San Diego County, including the area from West Valley Parkway to Andreasen Drive.

**PROJECT DESCRIPTION:** The City of Escondido (City) proposes to improve and extend Citracado Parkway from West Valley Parkway to Andreasen Drive, providing an arterial connection and roadway improvements. The City is also proposing the annexation of three parcels within the community of Harmony Grove, in unincorporated San Diego County, that are in proximity to the proposed roadway extension. Three alternatives are being considered for the proposed project, either (1) construct with annexation alternative; (2) construct without annexation alternative; (3) construct with bridge over Harmony Grove to Escondido Creek alternative; or (4) the no project alternative.

**APPLICANT/CONTACT PERSON:** Robert Zaino

**PHONE NUMBER:** (760) 839-4001

**ASSOCIATED CASE NO.:** ER-2006-10

**APPROVAL BODY/DATE:** \_\_\_\_\_

**PROJECT MANAGER:** Bill Martin

Phases at which the Mitigation Measures are to be implemented: Before, during, and after construction of the proposed Citracado Parkway roadway extension.

**MITIGATION MEASURES**

| Nature of Impact                                                                                                                                                            | Mitigation Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Identification No. Location in Doc.      | Responsibility for Implementation                | Certified Initials/Date | Comments |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------|-------------------------|----------|
| <p><b>BIO-1.</b> Permanent and temporary direct impacts to sensitive vegetation communities within the Project site would occur as a result of construction activities.</p> | <p><b>MM-BIO-1: Direct Impacts to Sensitive Vegetation Communities</b></p> <p><b>MM-BIO-1.1:</b> To avoid incidental loss of sensitive habitat types during construction activities, environmentally sensitive area fencing shall be installed along the limits of disturbance prior to the start of construction. In addition, grading limits shall be flagged or fenced and grading shall not occur beyond this flagging/fencing. Construction crews shall be made fully aware of this boundary.</p> | <p>MM-BIO-1.1<br/>Page 3.4-35 of EIR</p> | <p>Contractor</p>                                |                         |          |
|                                                                                                                                                                             | <p><b>MM-BIO-1.2:</b> Temporary impacts to sensitive upland and wetland habitats shall be mitigated through replacement on-site at a ratio of 1:1 for a total of 6.28 acres of habitat restoration. In addition to the 6.28-acre area, any bareground post-construction (e.g., areas of ornamental, disturbed, and eucalyptus woodland habitat impacted during construction) shall be planted post-construction for erosion control purposes.</p>                                                      | <p>MM-BIO-1.2<br/>Page 3.4-36 of EIR</p> | <p>City of Escondido<br/>Planning Department</p> |                         |          |

| Nature of Impact | Mitigation Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Identification No. Location in Doc. | Responsibility for Implementation     | Certified Initials/Date | Comments |
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|                  | <p><b>MM-BIO-1.3:</b> A restoration maintenance and monitoring plan for the 6.28 acres of habitat restoration, as described in MM-BIO-1.2, shall be prepared by a qualified restoration ecologist and shall incorporate an appropriate native species planting palette to blend in with the existing and surrounding habitats. Preference for habitat community restoration shall be determined based on the existing and surrounding habitats by a qualified restoration ecologist. Areas of nonnative grassland and eucalyptus woodland shall be restored in the form of native grassland and/or open oak woodland habitats. No nonnative species shall be incorporated into the restoration plan. This plan shall include details of site preparation, implementation and planting specifications, and maintenance and monitoring procedures. The plan shall also outline yearly success criteria and remedial measures should the mitigation effort fall short of the success criteria.</p> | MM-BIO-1.3<br>Page 3.4-36 of EIR    | Restoration Ecologist TBD             |                         |          |
|                  | <p><b>MM-BIO-1.4:</b> Permanent impacts to sensitive upland habitats shall be mitigated off-site through drawdown of mitigation credits from the Daley Ranch Mitigation Bank. Mitigation shall be completed, as shown in Table 3.4-3, at ratios in accordance with the NCMSCP and Escondido Subarea Plan as the guiding regulatory documents for the proposed Project. Coast live oak woodland shall be mitigated at 2:1 inside PAMA and 1:1 outside PAMA for a total of 1.70 acres of mitigation. Coastal sage scrub shall be mitigated at 1.5:1 inside PAMA and 1:1 outside PAMA for a total of 0.63 acre of mitigation. Nonnative grassland shall be mitigated at a ratio of 1:1 inside PAMA and 0.5:1 outside PAMA for a total of 4.20 acres of mitigation. Total mitigation credit to be drawn down from the Daley Ranch Mitigation Bank shall be 6.53 acres.</p>                                                                                                                          | MM-BIO-1.4<br>Page 3.4-36 of EIR    | City of Escondido Planning Department |                         |          |
|                  | <p><b>MM-BIO-1.5:</b> Permanent impacts to riparian and wetland habitats shall be mitigated at a ratio of up to 3:1 for a total of up to 2.13 acres of mitigation required. All permanent shaded areas shall be mitigated at a ratio of up to 3:1 with the first 0.64 acre occurring through restoration on-site, the second 0.64 acre occurring off-site and the remaining 0.64 acre via debit of preservation credits at Daley Ranch. All other permanent impacts (0.07 acre) shall be mitigated at up to 3:1 ratio with 0.14 acre off-site and 0.07 acre via debit</p>                                                                                                                                                                                                                                                                                                                                                                                                                       | MM-BIO-1.5<br>Page 3.4-38 of EIR    | City of Escondido Planning Department |                         |          |

| Nature of Impact                                                                                                                                                                           | Mitigation Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Identification No. Location in Doc. | Responsibility for Implementation | Certified Initials/Date | Comments |
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|                                                                                                                                                                                            | preservation credits at Daley Ranch. Off-site mitigation in the amount of 0.78 acre shall occur directly adjacent to the Project site at the southeast portion of the Hale Avenue Resource Recovery Facility (HARRF) Expansion Parcel.                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                                   |                         |          |
|                                                                                                                                                                                            | <b>MM-BIO-1.6:</b> A mitigation maintenance and monitoring plan for both on-site and off-site riparian and wetland mitigation, as described in MM-BIO-1.5, shall be prepared by a qualified restoration ecologist and shall incorporate an appropriate native species planting palette to blend in with the existing and surrounding habitats. This plan shall include details of site preparation, implementation and planting specifications, and maintenance and monitoring procedures. The plan shall also outline yearly success criteria and remedial measures should the mitigation effort fall short of the success criteria. | MM-BIO-1.6<br>Page 3.4-38 of EIR    | Restoration Ecologist TBD         |                         |          |
| <b>BIO-2.</b> Potential temporary and permanent indirect impacts to the vegetation communities surrounding the Project site would occur as a result of Project construction and operation. | <b>MM-BIO-2: Indirect Impacts to Sensitive Vegetation Communities</b><br><br><b>MM-BIO-2.1:</b> Storage of soil or fill material from the Project site shall be within the Project area or developed areas. The contractor shall delineate stockpile areas on the grading plans for review by the City.                                                                                                                                                                                                                                                                                                                               | MM-BIO-2.1<br>Page 3.4-38 of EIR    | Contractor                        |                         |          |
|                                                                                                                                                                                            | <b>MM-BIO-2.2:</b> Construction access shall use existing developed areas or be within the right-of-way of proposed road improvements. If unauthorized new or temporary access routes are determined to be necessary, these areas shall be surveyed for biological resources prior to their use. Contractors shall clearly mark all access routes (i.e., flagged and/or staked) prior to the onset of construction. Implementation of erosion and sedimentation control measures as identified in MM-BIO-5 would also reduce any potential indirect impacts to sensitive vegetation communities to less than significant.             | MM-BIO-2.2<br>Page 3.4-38 of EIR    | Contractor                        |                         |          |
|                                                                                                                                                                                            | <b>MM-BIO-2.3:</b> The contractor shall periodically monitor the work area to ensure that construction-related activities do not generate excessive amounts of fugitive dust. Water shall be applied to the construction right-of-way, dirt roads, trenches, spoil piles, and other areas where ground disturbance has taken place to minimize dust emissions and topsoil erosion.                                                                                                                                                                                                                                                    | MM-BIO-2.3<br>Page 3.4-39 of EIR    | Contractor                        |                         |          |

| Nature of Impact                                                                                                                                                                                                                                                                                                                                                                       | Mitigation Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Identification No. Location in Doc.      | Responsibility for Implementation            | Certified Initials/Date | Comments |
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| <p><b>BIO-3.</b> Within the Project site, construction and placement of the Escondido Creek Bridge would result in 0.01 acre of permanent direct impacts to potential jurisdictional waters. Temporary direct impacts to jurisdictional waters within the Project site would occur to 0.75 acre. Shading from bridge construction would directly and permanently impact 0.64 acre.</p> | <p><b>MM-BIO-3: Direct Impacts to Jurisdictional Waters</b></p> <p><b>MM-BIO-3.1:</b> MM-BIO-1 requires mitigation for all permanent wetland habitat impacts at a ratio of up to 3:1. In addition, in accordance with resource agency policies, the mitigation shall not result in a net loss of wetland habitat or wetland functions and values. Therefore, a minimum of 1:1 of the final mitigation replacement ratio shall be accomplished by wetland/riparian restoration at the southeast portion of the HARRF Expansion Parcel (0.78 acre). The proposed mitigation is subject to the resource agencies' review and discretion; thus, the mitigation obligations for the impacts to jurisdictional wetland habitats may change from those presented here.</p> | <p>MM-BIO-3.1<br/>Page 3.4-39 of EIR</p> | <p>City of Escondido Planning Department</p> |                         |          |
|                                                                                                                                                                                                                                                                                                                                                                                        | <p><b>MM-BIO-3.2:</b> Impacts to riparian habitats and wetlands, as well as jurisdictional waters, shall require the following permits by regulatory federal and state agencies and acts: (1) USACE, CWA, Section 404 permit for placement of dredged or fill material within waters of the U.S.; (2) RWQCB, CWA, Section 401 state water quality certification/waiver for an action that may result in degradation of waters of the state; and (3) CDFG, CFGC, Section 1602 agreement for alteration of a streambed. The mitigation could occur in the form of wetland/riparian creation or restoration (which both result in a gain of wetland/riparian area), or creation or restoration combined with enhancement.</p>                                          | <p>MM-BIO-3.2<br/>Page 3.4-39 of EIR</p> | <p>City of Escondido Planning Department</p> |                         |          |
| <p><b>BIO-4.</b> Impacts to jurisdictional waters would occur within a deed restricted mitigation area.</p>                                                                                                                                                                                                                                                                            | <p><b>MM-BIO-4: Direct Impacts to a Deed Restricted Mitigation Area</b></p> <p>The deed restriction shall be removed from the area underneath the bridge. In kind, a deed restriction shall be placed on all mitigation acreage proposed at the southeast portion of the HARRF Expansion Parcel. In addition, an area of equal acreage to the area being removed from the deed restriction to the west of the bridge shall be placed under deed restriction in the vicinity of the now proposed mitigation location on the HARRF Expansion Parcel.</p>                                                                                                                                                                                                              | <p>MM-BIO-4<br/>Page 3.4-39 of EIR</p>   | <p>City of Escondido Planning Department</p> |                         |          |

| Nature of Impact                                                                                                                                                                   | Mitigation Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Identification No. Location in Doc.      | Responsibility for Implementation                                                             | Certified Initials/Date | Comments |
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| <p><b>BIO-5.</b> Potential temporary and permanent indirect impacts to the jurisdictional waters surrounding the Project site would occur as a result of Project construction.</p> | <p><b>MM-BIO-5: Indirect Impacts to Jurisdictional Waters</b></p> <p><b>MM-BIO-5.1:</b> As identified in MM-BIO-1, environmentally sensitive area fencing shall be installed at the Project site to ensure no unintentional impacts to sensitive habitats. In the area of the HARRF access driveway, the limits of potentially jurisdictional southern willow riparian forest shall be flagged for avoidance, and silt fencing shall be installed in this location to avoid any indirect impacts to this potentially jurisdictional habitat.</p>                                                                                                                    | <p>MM-BIO-5.1<br/>Page 3.4-40 of EIR</p> | <p>Contractor</p>                                                                             |                         |          |
|                                                                                                                                                                                    | <p><b>MM-BIO-5.2:</b> A Storm Water Pollution Prevention Plan (SWPPP) shall be prepared to comply with RWQCB requirements. The SWPPP shall identify the design features and BMPs that will be used to effectively manage drainage-related issues (e.g., erosion and sedimentation) during construction. Erosion control measures shall be regularly checked by the contractor, the Project biologist, and/or the City. Specific BMP plans shall be reviewed by the City and the Project biologist and modified, if necessary, prior to implementation. Fencing and erosion control measures of all Project areas shall be inspected a minimum of once per week.</p> | <p>MM-BIO-5.2<br/>Page 3.4-40 of EIR</p> | <p>Contractor/<br/>Project Biologist and/or<br/>City of Escondido<br/>Planning Department</p> |                         |          |
|                                                                                                                                                                                    | <p><b>MM-BIO-5.3:</b> Activities, including staging areas, equipment access, and disposal or temporary placement of excess fill, shall be prohibited within off-site drainages. Implementation of measures as identified in MM-BIO-2 would also reduce any potential indirect impacts to jurisdictional waters to less than significant.</p>                                                                                                                                                                                                                                                                                                                        | <p>MM-BIO-5.3<br/>Page 3.4-40 of EIR</p> | <p>Contractor</p>                                                                             |                         |          |
| <p><b>BIO-6.</b> Direct permanent impacts would occur to 16 mature and 12 protected trees.</p>                                                                                     | <p><b>MM-BIO-6: Direct Impacts to Mature and Protected Trees</b></p> <p><b>MM-BIO-6.1:</b> Prior to the start of construction, all <i>mature</i> and/or <i>protected</i> trees shall be identified by a qualified biological monitor within the temporary and permanent impact areas. Impacts to trees in the temporary work area shall be avoided to the extent feasible. Trees in the temporary impact area that can be avoided shall be temporarily fenced off at the drip line of the tree to prevent impacts during construction.</p>                                                                                                                          | <p>MM-BIO-6.1<br/>Page 3.4-40 of EIR</p> | <p>Project Biologist TBD</p>                                                                  |                         |          |

| Nature of Impact                                                                                                                                                                                                                                                                                                                                   | Mitigation Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Identification No. Location in Doc. | Responsibility for Implementation     | Certified Initials/Date | Comments |
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|                                                                                                                                                                                                                                                                                                                                                    | <p><b>MM-BIO-6.2:</b> If <i>mature</i> and/or <i>protected</i> trees cannot be preserved on-site, then impacts shall be mitigated as required under the City of Escondido Municipal Code (Chapter 33, Article 55). Where mature and protected trees occur in open oak woodland and/or riparian habitat, habitat-based mitigation as required under MM-BIO-1 and MM-BIO-3 will reduce impacts to less than significant. Of the 38 mature trees, a total of 16 <i>mature</i> trees are not associated with riparian and oak woodland habitats on-site. These 16 <i>mature</i> trees that cannot be preserved on-site shall be replaced at a minimum 1:1 ratio. Of the 33 protected trees, a total of 12 <i>protected</i> trees are not associated with riparian and oak woodland habitats on-site. These 12 <i>protected</i> trees that cannot be preserved on-site shall be replaced at a minimum 2:1 ratio. The number, size, species, and location of replacement trees shall be determined on a case-by-case basis by the City of Escondido Planning Department. Replacement trees shall be incorporated into the on-site revegetation plan, as required in MM-BIO-1.</p> | MM-BIO-6.2<br>Page 3.4-40 of EIR    | City of Escondido Planning Department |                         |          |
| <p><b>BIO-7.</b> Mature and/or protected trees were not surveyed in the buffer; however, indirect impacts may occur to those adjacent to the Project site. Potential temporary, indirect impacts to mature and/or protected trees would arise during Project construction as a result of runoff and sedimentation, erosion, and fugitive dust.</p> | <p><b>MM-BIO-7: Indirect Impacts to Mature and Protected Trees</b><br/>Implementation of measures as identified in MM-BIO-2 would reduce any potential indirect impacts to <i>mature</i> and <i>protected</i> trees to less than significant.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MM-BIO-7<br>Page 3.4-41 of EIR      | Contractor                            |                         |          |
| <p><b>BIO-8.</b> Direct permanent impacts would occur to three Engelmann oak that occur in the planned grading areas.</p>                                                                                                                                                                                                                          | <p><b>MM-BIO-8: Direct Impacts to Sensitive Plant Species (Engelmann Oaks)</b><br/>Impacts to two Engelmann oak trees shall be avoided in the temporary impact area to the extent feasible, as required in MM-BIO-5. Permanent impacts to one Engelmann oak tree (and temporary impacts to the two Engelmann oak trees, if they cannot be avoided) shall be mitigated as required for <i>protected</i> trees under the City of Escondido Municipal Code</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | MM-BIO-8<br>Page 3.4-41 of EIR      | City of Escondido Planning Department |                         |          |



| Nature of Impact                                                                                                                                                                                                                                                                                                                                                                                          | Mitigation Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Identification No. Location in Doc. | Responsibility for Implementation | Certified Initials/Date | Comments |
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|                                                                                                                                                                                                                                                                                                                                                                                                           | (Chapter 33, Article 55). Engelmann oaks shall be replaced at a minimum 2:1 ratio at an on-site location, or elsewhere in the City, as determined by the City Director of Planning.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |                                   |                         |          |
| <p><b>BIO-9.</b> Potential temporary, indirect impacts to Palmer’s sagewort and Engelmann oak would arise during Project construction as a result of runoff, sedimentation, erosion, and fugitive dust. Potential permanent indirect impacts to Palmer’s sagewort and Engelmann oak may occur during Project operation, such as habitat degradation and introduction of harmful exotic plant species.</p> | <p><b>MM-BIO-9: Indirect Impacts to Sensitive Plant Species (Palmer’s Sagewort and Engelmann Oaks)</b></p> <p><b>MM-BIO-9.1:</b> In the Project buffer, the four individuals of Palmer’s sagewort shall be flagged for avoidance and further impacts shall be avoided through implementation of the following: no unnecessary or unauthorized trespass by workers or equipment in the Project buffer, prohibition of staging and storage of equipment and materials, prohibition of refueling activities, and prohibition of littering or dumping debris in areas known to contain Palmer’s sagewort outside the Project area. Palmer’s sagewort shall also be planted within the Project’s potential on-site wetland/riparian restoration area.</p>                                                                                                                                                                                                                                                                                                                          | MM-BIO-9.1<br>Page 3.4-41 of EIR    | Contractor                        |                         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                           | <p><b>MM-BIO-9.2:</b> Implementation of measures identified in MM-BIO-2 would reduce any potential indirect impacts to Engelmann oaks to less than significant.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MM-BIO-9.2<br>Page 3.4-41 of EIR    | Contractor                        |                         |          |
| <p><b>BIO-10.</b> Suitable Cooper’s hawk, yellow warbler, and yellow-breasted chat habitat present in the Project site would be directly impacted by construction of the Project. Operation of the Project may temporarily directly impact these species when tree trimming is necessary during routine maintenance.</p>                                                                                  | <p><b>MM-BIO-10: Direct Impacts to Cooper’s Hawk, Yellow Warbler, and Yellow-Breasted Chat and Other Migratory Birds</b></p> <p>Under CFGC Division 4, Part 2, Chapter 1, Section 3503.5, “it is unlawful to take, possess, or destroy any birds in the orders Falconiformes or Strigiformes (birds of prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by this code or any regulation adopted pursuant thereto,” where “take” is defined under Division 0.5, Chapter 1, Section 86 as “hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill.” In addition, the MBTA restricts the killing of migratory birds or destruction of active migratory bird nests and/or eggs. Therefore, vegetation clearing should occur outside of the typical breeding season for raptors and migratory birds (January 1 through September 1). If this is not possible, then a qualified biologist shall conduct a survey for nesting birds no more than 5 calendar days prior to construction to</p> | MM-BIO-10<br>Page 3.4-41 of EIR     | Project Biologist TBD             |                         |          |

| Nature of Impact                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Mitigation Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Identification No. Location in Doc. | Responsibility for Implementation          | Certified Initials/Date | Comments |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | determine the presence or absence of nests in the Project area, and the potential need for additional Project mitigation measures. If construction is halted for more than 5 calendar days during the breeding season, then nest surveys must be repeated prior to any additional vegetation clearing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                     |                                            |                         |          |
| <b>BIO-11.</b> Temporary, indirect impacts are likely to arise from construction-generated fugitive dust accumulation on surrounding vegetation and/or noise resulting in destruction and/or avoidance of habitat by wildlife. Operation of the Project may result in permanent indirect impacts to Cooper’s hawk, yellow warbler, and yellow-breasted chat, which includes edge effects, where the Project would lead to increased lighting, noise, and exotic plant and wildlife invasion. | <b>MM-BIO-11: Indirect Impacts to Cooper’s Hawk, Yellow Warbler, and Yellow-Breasted Chat and Birds and Other Migratory Birds</b><br><br><b>MM-BIO-11.1:</b> If nesting birds, including but not limited to, special-status species and those species protected by the MBTA, are detected in the Project site or Project buffer, the nest shall be flagged and no construction activity shall take place within 500 feet of the nest until nesting is complete (nestlings have fledged or nest has failed) or a Project biologist and noise specialist have confirmed that construction noise levels are less than 60 dBA $L_{eq}$ at the nest site.                                                                                                                                                                                                                                                                                 | MM-BIO-11.1<br>Page 3.4-42 of EIR   | Project Biologist and Noise Specialist TBD |                         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>MM-BIO-11.2:</b> If construction activities occur at night, all Project lighting (e.g., staging areas, equipment storage sites, roadway) shall be directed onto the roadway or construction site and away from sensitive habitat. Light glare shields shall also be used to reduce the extent of illumination into adjoining areas.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MM-BIO-11.2<br>Page 3.4-42 of EIR   | Contractor                                 |                         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>MM-BIO-11.3:</b> Final construction plans shall detail all operational street light locations and shall be provided to the City of Escondido Planning Department for review. Operational street lights shall be directed onto the roadway and away from open space areas. When considering spacing of lighting along the roadway, special consideration shall be given to the lighting along the new bridge and in the vicinity of the riparian habitat in Escondido Creek. Lighting in the area of Escondido Creek should be avoided if possible. If lighting is necessary for safe roadway operations in the vicinity of the creek, filters, shields, automatic dusk-to-dawn sensors, and/or other commercially available devices shall be implemented so that lighting is not reflecting into the adjacent riparian habitat. Final construction plans detailing lighting shall include specifications for all proposed devices | MM-BIO-11.3<br>Page 3.4-42 of EIR   | City of Escondido Planning Department      |                         |          |

| Nature of Impact                                                                                                                                                                                                                                     | Mitigation Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Identification No. Location in Doc. | Responsibility for Implementation                                                    | Certified Initials/Date | Comments |
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|                                                                                                                                                                                                                                                      | to avoid lighting impacts within the riparian habitat adjacent to the bridge. These lighting specifications shall be reviewed and approved by the City of Escondido Planning Department prior to Project implementation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |                                                                                      |                         |          |
|                                                                                                                                                                                                                                                      | <b>MM-BIO-11.4:</b> Operational traffic noise may reduce breeding potential for the yellow warbler, yellow-breasted chat, and Cooper’s hawk within 230 feet of the centerline of the bridge and/or roadway. Noise levels shall be considered when preparing the restoration plan to allow for the planting of mature and protected trees, as required in MM-BIO-6, in areas where traffic noise levels would not be expected to impact breeding and nesting activities of foraging raptors, including Cooper’s hawk. Implementation of habitat-based mitigation for direct impacts as described in MM-BIO-1 and MM-BIO-3 would result in an overall increase in suitable habitat for yellow warbler and yellow-breasted chat, and would reduce any potential indirect noise impacts to less than significant. | MM-BIO-11.4<br>Page 3.4-43 of EIR   |                                                                                      |                         |          |
|                                                                                                                                                                                                                                                      | <b>MM-BIO-11.5:</b> Implementation of measures as identified in MM-BIO-2 would also reduce any potential indirect impacts to sensitive wildlife species and birds protected under the MBTA to less than significant.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MM-BIO-11.5<br>Page 3.4-43 of EIR   | Contractor                                                                           |                         |          |
| <b>BIO-12.</b> The Project would result in direct construction-related impacts to migratory bird populations on-site in the form of habitat destruction, and potentially death, injury, or harassment of nesting birds, their eggs, and their young. | <b>MM-BIO-12: Direct Impacts to Migratory Birds</b><br>Implementation of measures as identified in MM-BIO-10 would reduce any potential direct impacts to migratory bird populations to less than significant.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MM-BIO-12<br>Page 3.4-43 of EIR     | Project Biologist TBD                                                                |                         |          |
| <b>BIO-13.</b> Temporary, indirect impacts are likely to arise from construction-generated fugitive dust accumulation on surrounding vegetation and construction-related                                                                             | <b>MM-BIO-13: Indirect Impacts to Migratory Birds</b><br>Implementation of measures as identified in MM-BIO-11.1, BIO-11.2, and BIO-11.3 would reduce any potential indirect impacts to migratory birds to less than significant.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MM-BIO-13<br>Page 3.4-43 of EIR     | Project Biologist and Noise Specialist TBD/<br>Contractor/City of Escondido Planning |                         |          |

| Nature of Impact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Mitigation Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Identification No. Location in Doc. | Responsibility for Implementation                      | Certified Initials/Date | Comments |
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| <p>erosion, runoff, and sedimentation into plant communities resulting in destruction and/or avoidance of migratory bird habitat. Additionally, construction-related noise is likely to cause migratory bird nest abandonment in areas adjacent to construction in the Project site.</p>                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     | Department                                             |                         |          |
| <p><b>CR-1.</b> Evidence of human remains was discovered during the testing at Site SDI-12,209 Locus 1 by EDAW in 2008 within the Project's APE. No other remains were identified by BFSa during subsequent subsurface excavations conducted in the Project APE. As noted previously, there is also the indication that the Project area was used by Native Americans for religious, ritual, or other special activities based upon the recordation of pictographs adjacent to the Project's APE. Therefore, impacts to Native American burials and sacred site elements are expected. These impacts are considered significant.</p> | <p><b>MM-CR-1: Human Remains Encountered within the Construction Zone</b></p> <p><b>MM-CR-1.1:</b> In the event of the accidental discovery or recognition of any human remains in any location other than a dedicated cemetery, protocols and procedures noted in the PRC Section 5097.98, the California Government Code Section 27491, the Health and Safety Code Section 7050.5, and the County of San Diego Historical Resources Guidelines for the treatment of human remains encountered at archaeological sites will be followed. The City of Escondido will prepare and submit to the tribes for their review and comments a Pre-Excavation Agreement that is intended to outline the procedures and protocol to be followed in the event human remains are identified. This agreement is not a mandatory precursor to the implementation of the mitigation and monitoring program; however, the City is committed to the proper treatment of any human remains that may be encountered, and will make the necessary effort to implement the Pre-Excavation Agreement. The procedures listed below shall be followed where human remains are encountered:</p> <p>A. There shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent human remains until:</p> <ol style="list-style-type: none"> <li>a. A City Official is contacted.</li> <li>b. The Coroner is contacted to determine that no investigation of the cause of death is required, and</li> </ol> | MM-CR-1.1<br>Page 3.5-16 of EIR     | City of Escondido/<br>Consulting Archaeologist/<br>MLD |                         |          |