MANGINI

MANGINI ASSOCIATES INC.
4320 West Mineral King Avenue
Visalia, California 93291
(559) 627-0530

www.mangini.us

DATE:	September 25, 2026
MAI NO.:	24042
OPSC APPL. NO.:	
DSA APPL. NO.:	02-123774
DSA FILE NO.:	10-126

ADDENDUM FOR:

NEW TEMPERANCE ELEMENTARY SCHOOL

SANGER UNIFIED SCHOOL DISTRICT
SANGER, FRESNO COUNTY, CALIFORNIA

J. Ryan Morrelli **C-33128**
ARCHITECT
MANGINI ASSOCIATES INC.
4320 W. Mineral King Avenue, Visalia, CA 93291
PHONE: (559) 627-0530 FAX: (559) 627-1926

ADDENDUM NUMBER

1

NON-DSA

ADDENDUM NO. 1

TO PROSPECTIVE BIDDERS:

This Addendum forms a part of the Contract Documents and modifies the Contract Documents dated December 18, 2025 and approved September 22, 2026.

Bidders shall acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may disqualify the Bidder.

This Addendum consists of 2 printed pages and the following Attachments:

- Storm Water Pollution Prevention Plan, dated 6/10/2026
- Dust Control Plan
- Offsite Improvement Drawings for Sewer and Water
- Offsite Improvement Drawings for Street Plans
- Offsite Improvement Drawings for Streetlight Plans
- Offsite Improvement Drawings for Fresno Metropolitan Flood Control District

CHANGES TO THE PROJECT MANUAL

ITEM NO. 1.1: Storm Water Pollution Prevention Plan
Refer to Spec Section 01 5725 – Storm Water Pollution Prevention Plan.
Add Stormwater Pollution Prevention Plan for Temperance Elementary School, dated 06/10/2026 to the end of Spec Section 01 5725.
See attached for Stormwater Pollution Prevention Plan for Temperance Elementary School, dated 06/10/2026.

ITEM NO. 1.2: Dust Control Plan
Refer to Spec Section 31 2000 – Earthwork.
Add San Joaquin Valley Air Pollution Control District Dust Control Plan to the end of Spec Section 31 2000.
See attached for San Joaquin Valley Air Pollution Control District Dust Control Plan.

CHANGES TO THE DRAWINGS

ITEM NO. 1.3: Table of Contents
Refer to New Temperance Elementary School table of contents sheet G2.
Add the following offsite improvement plans to the table of contents on sheet G2
- Offsite Improvement Drawings for Sewer and Water
- Offsite Improvement Drawings for Street Plans
- Offsite Improvement Drawings for Streetlight Plans
- Offsite Improvement Drawings for Fresno Metropolitan Flood Control District

END OF ADDENDUM NUMBER 1

STORMWATER POLLUTION PREVENTION PLAN

for

Temperance Elementary School

Project Location:



WDID:

RISK LEVEL: 1

Legally Responsible Person (LRP):

Sanger Unified School District

1905 7th Street

Sanger, CA 93722

Ryan Kilby

(559) 524-7600

ryankilby@sangerusd.net

Project Address:

Southwest of East California and South Temperance Ave.
Fresno, CA

Site Operating Hours:

7:30am - 5:00pm

Estimated Project Dates:

Start of Construction: 1/4/2027

Completion of Construction: 9/1/2028

SWPPP Prepared by:

901 E Main St
Visalia, CA 93292

SWPPP Preparation Date:

06/10/2026

QSD Name:

Monique Mello, PE, QSD/QSP

Contact Information

Role	Name	Phone Number	License or Certification Number, if Applicable
Qualified SWPPP Developer (QSD)	Monique Mello	(559) 733-0440	22554
Qualified SWPPP Practitioner (QSP)	Andrea Pedraza	(559) 733-0440	27175
Qualified SWPPP Practitioner (QSP)			
QSP Delegate			
QSP Delegate			
QSP Delegate			
QSP Delegate			

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Qualified SWPPP Developer

Approval and Certification of the Stormwater Pollution Prevention Plan

Project Name:	*Temperance Elementary School*
Project Number/ID: [if applicable]	*250125*

"This Stormwater Pollution Prevention Plan and its appendices were prepared under my direction to meet the requirements of the California Construction Stormwater General Permit (*Order No. 2022-0057-DWQ*). I certify that I am a Qualified SWPPP Developer in good standing as of the date signed below and will maintain up to date credentials for the duration of the project."

	06/10/2026
QSD Signature	*Date*
Monique Mello, P.E.	22554
QSD Name	*QSD Certificate Number*
Senior Engineer, QSD/QSP	(559) 733-0440
Title and Affiliation	*Telephone Number*
Monique.Mello@QKinc.com	
Email	

Amendment Log

Project Name: Temperance Elementary School

Project Number/ID:
[if applicable] 250125

Amendment No.	Date	Brief Description of Amendment (include section and page number)	Prepared and Approved By
			Name: QSD#
			Name: QSD#
			Name: QSD#

The SWPPP will be revised when:

- There is a 2022 CGP violation (2022 CGP Section VI.Q.1);
- There is a reduction or increase in total disturbed acreage (2022 CGP Section III.F.2. and F.4);
- BMPs are not effective and are not resulting in a reduction or elimination of pollutants in stormwater discharges and authorized non-stormwater discharges (2022 CGP Section VI.Q.1 and Attachment E Section III.C.5);
- There is a change in the project duration that changes the project Risk Type (2022 CGP Section III.F.1);
- Dischargers with projects where all construction activities (including passive treatment, active treatment systems, and/or active equipment) will be suspended for 30 days or more (2022 CGP Section III.G);
- There is a change in construction or operations that may affect the discharge of pollutants to surface waters, groundwater(s), or a municipal separate storm sewer system (MS4) (2022 CGP Sections IV.O. and VI.Q.1); or

When deemed necessary by the QSD. The QSD has determined that the changes listed in Table 1-1 can be field determined by the QSP. All other changes will be made by the QSD as formal amendments to the SWPPP. Note that the 2022 CGP requires that the QSD "revise the SWPPP to address potential problems identified by visual observations, sampling data, comments from a QSP, or their own site observations (2022 CGP Section V.C.2.).

SWPPP Amendment QSD Certifications are located in Appendix C.

Section 1 SWPPP Requirements

1.1 INTRODUCTION

This Stormwater Pollution Prevention Plan (SWPPP) is designed to comply with California's *General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities (2022 CGP),* State Water Resources Control Board (State Water Board) *Order No. 2022-0057-DWQ (NPDES No. CAS000002)* (Appendix S). This SWPPP has been prepared following the 2022 CGP SWPPP Template for Traditional Projects provided in the California Stormwater Quality Association (CASQA) Stormwater *Best Management Practice (BMP) Handbook: Construction* (CASQA 2023).

This project is considered a traditional construction project.

In accordance with the 2022 CGP, Section IV.O, this SWPPP is designed to address the following:

- Identification of all pollutants, their sources, and control mechanisms, including sources of sediment associated with all construction activities (e.g., sediment, paint, cement, stucco, cleaners, site erosion);
- Pollutant source assessments, including a list of potential pollutant sources and identification of site areas where additional BMPs are necessary to reduce or prevent pollutants in stormwater and authorized non-stormwater discharges, per the minimum requirements when developing the pollutant source assessment;
- Description of site-specific BMPs implemented to reduce or eliminate stormwater pollution;
- Where not otherwise required to be under a Regional Water Quality Control Board (Regional Water Board) permit, all non-stormwater discharges are identified and either eliminated, controlled, or treated;
- Site BMPs are effective and result in the reduction or elimination of pollutants in stormwater discharges and authorized non-stormwater discharges from construction activity to the Best Available Technology/Best Control Technology (BAT/BCT) standard; and;
- Stabilization BMPs are installed to reduce or eliminate pollutants after construction is completed are effective and maintained; and
- Calculations and design details, as well as BMP controls, are complete and correct.

1.2 PERMIT REGISTRATION DOCUMENTS

Required Permit Registration Documents (PRDs) shall be submitted to the State Water Board via the Stormwater Multi Application and Report Tracking System (SMARTS) by the LRP or DAR. The project-specific PRDs include (2022 CGP Section III.A):

1. Notice of Intent (NOI);
2. Risk Level Determination (Construction Site Sediment and Receiving Water Risk Determination);
3. Site Drawings and Map;
4. SWPPP;

5. Applicable plans, calculations, and other supporting documentation for compliance with the Phase I or Phase II municipal separate storm sewer system (MS4) post construction requirements or the post-construction standards of the 2022 CGP:
    - Attachment or web-source containing the applicable Phase I or Phase II MS4 post construction requirements;
    - The post construction plans and calculations submitted to or approved by the applicable Phase I or Phase II MS4; and/or
    - Post-construction water balance calculation;
6. Dischargers proposing an alternate K-factor or LS-factor must submit documentation to support the site-specific factors, if applicable;
7. Active Treatment System (ATS) Plan, if applicable;
8. Passive Treatment Plan, if applicable;
9. Dewatering Plan, if applicable;
10. Annual Fee per the current 23 California Code of Regulations Chapter 9 fee schedule for National Pollutant Discharge Elimination System (NPDES) stormwater permits; and
11. Signed Certification Statement (LRP Certification is provided electronically with SMARTS PRD submittal).

Site Maps can be found in Appendix A. A copy of the submitted PRDs shall also be kept in Appendix B along with the Waste Discharge Identification (WDID) confirmation.

1.3 SWPPP AVAILABILITY AND IMPLEMENTATION

The SWPPP will be available at the construction site during working hours list on the title sheet and Section 7.5, while construction is occurring and shall be made available upon request by a federal, state, or municipal inspector. A current copy of the site-specific SWPPP and any site inspection reports required by the 2022 CGP may be kept in electronic format at the site so long as the information requested by a federal, state, or municipal inspector can be made available during an inspection. Legible maps in hard copy must be available at the site (2022 CGP Section IV.O.1.).

The SWPPP must be implemented at the appropriate level to protect water quality at all times throughout the life of the project. The SWPPP must remain on the site during construction activities, commencing with the initial mobilization and ending with the termination of coverage under the 2022 CGP.

1.4 SWPPP AMENDMENTS

SWPPP changes or amendments will be uploaded through SMARTS within 30 calendar days. The SWPPP will be revised when:

- If there is a 2022 CGP violation (2022 CGP Section VI.Q.1);
- There is a reduction or increase in total disturbed acreage (2022 CGP Section III.F.2 and F.4.);
- BMPs are not effective and are not resulting in a reduction or elimination of pollutants in stormwater discharges and authorized non-stormwater discharges (2022 CGP Section VI.Q.1 and Attachment D Section III.C.5);

- There is a change in the project duration that changes the project's risk level (2022 CGP Section III.F.1); or
- Dischargers with projects where all construction activities (including passive treatment, active treatment systems, and/or active equipment) will be suspended for 30 days or more (2022 CGP Section III.G.).

Additionally, the SWPPP will be amended when:

- There is a change in construction or operations that may affect the discharge of pollutants to surface waters, groundwater(s), or a municipal separate storm sewer system (MS4) (2022 CGP Sections IV.O. and VI.Q.1); or

When deemed necessary by the QSD. The QSD has determined that the changes listed in Table 1-1 can be field determined by the QSP. All other changes will be made by the QSD as formal amendments to the SWPPP. Note that the 2022 CGP requires that the QSD revise the SWPPP to address potential problems identified by visual observations, sampling data, comments from a QSP, or their own site observations (2022 CGP Section V.C.2.).

The following items shall be included in each amendment:

- Who requested the amendment;
- The location of proposed change;
- The reason for change;
- The original BMP(s) proposed, if any;
- The new BMP(s) proposed; and
- QSD certification.

SWPPP amendments will be logged at the front of the SWPPP and SWPPP Amendment QSD certifications will be located in Appendix C. The SWPPP text will be revised, replaced and/or hand annotated as necessary to properly convey the amendment. SWPPP amendments must be made by QSD. The following changes have been designated by the QSD as "to be field determined" and constitute minor changes that the QSP may implement based on field conditions.

Table 1-1 List of Changes to be Field Determined

Candidate changes for field location or determination by QSP (1)	Check changes that can be field located or field determined by QSP
Increase quantity of an Erosion or Sediment Control Measure	✓
Relocate/add stockpiles or stored materials	✓
Relocate or add toilets	✓
Relocate vehicle storage and/or fueling locations	✓
Relocate areas for waste storage	✓
Relocate water storage and/or water transfer location	✓

Table 1-1 List of Changes to be Field Determined

Candidate changes for field location or determination by QSP (1)	Check changes that can be field located or field determined by QSP
Changes to access points (entrance/exits)	✓
Change type or location of Erosion or Sediment Control Measure	✓
Minor changes to schedule or phases	✓
Changes in construction materials	✓
(1) Any field changes not identified for field location or field determination by the QSP must be made as an amendment by the QSD.	

1.5 RETENTION OF RECORDS

Paper or electronic records of documents required by this SWPPP will be retained for a minimum of three years from the date generated or date submitted, whichever is later, for the following items:

- SWPPP;
- Visual monitoring reports;
- Sampling equipment calibration records;
- pH and turbidity sampling field sheets;
- Analytical laboratory reports; and

These records will be available at the Site until construction is complete. Records assisting in the determination of compliance with the 2022 CGP will be made available within a reasonable time to the Regional Water Board, State Water Board, or U.S. Environmental Protection Agency (EPA) upon request. Requests by the Regional Water Board for retention of records for a period longer than three years will be adhered to.

1.6 REPORTING

Completed inspection checklists are not required to be submitted to the Regional Water Board. However, completed inspection checklists will be kept with the SWPPP on-site or electronically. The 2022 CGP requires that permittees prepare, certify, and electronically submit an Annual Report no later than September 1 of each year. Reporting requirements are identified in 2022 CGP Section VI.P. Annual reports will be filed in SMARTS and in accordance with information required by the online forms.

Planned changes in site construction activities that may result in non-compliance with the 2022 CGP are required to be provided in writing to the Regional Water Board and local stormwater agency in advance of the changes.

If a 2022 CGP discharge violation occurs, the QSP will immediately notify the LRP. The LRP will include information on the violation with the Annual Report. Corrective measures will be implemented immediately following identification of the discharge or written notice of non-compliance from the Regional Board. Discharges and corrective actions must be documented and include the following items:

- The date, time, location, nature of operation, and type of unauthorized discharge;

- The cause or nature of the notice or order;
- The BMPs deployed before the discharge event, or prior to receiving notice or order; and
- The date of deployment and type of BMPs deployed after the discharge event, or after receiving the notice or order, including additional measures installed or planned to reduce or prevent re-occurrence.

1.7 CHANGES TO PERMIT COVERAGE

The 2022 CGP allows for the reduction or increase of the total acreage covered under the 2022 CGP when: a portion of the project is complete and/or conditions for termination of coverage have been met; when ownership of a portion of the project is purchased by a different entity; or when new acreage is added to the project.

Modified PRDs will be filed electronically through a Change of Information (COI) within 30 days of a reduction or increase in total disturbed areas if a change in permit-covered acreage is to be sought. The SWPPP will be modified appropriately and will be logged at the front of the SWPPP. SWPPP Amendments QSD Certifications will be located in Appendix C. COIs submitted electronically via SMARTS can be found in Appendix D.

1.8 NOTICE OF TERMINATION

A Notice of Termination (NOT) must be submitted electronically by the LRP or DAR via SMARTS to terminate coverage under the 2022 CGP.

According to the requirements of 2022 CGP Section III.H.4., the following final stabilization method will be used to satisfy final stabilization condition requirements:

70 percent final cover method supported by pre- and post-project photographs demonstrating stabilization.

RUSLE or RUSLE2 method with computation proof supported by pre- and post-project photographs demonstrating stabilization.

Custom method for which Regional Water Board approval has been obtained, supported by documentation required by the Regional Water Board and pre- and pos- project photographs demonstrating stabilization.

The Regional Water Board will consider a construction site complete when the conditions of the 2022 CGP Section III.H., have been met.

The discharger is required to submit the following in SMARTS:

- NOT SMARTS Form;
- QSP-prepared final NOT inspection which includes the QSP name and valid QSP certificate number;
- Final site map with photo orientation references;
- Photos demonstrating final stabilization and the applicable post-construction BMPs and/or low impact development; and
- A long-term maintenance plan for the post-construction stormwater runoff BMPs and/or low impact development features being implemented.

According to the 2022 CGP, the NOT will be automatically approved within 30 calendar days after the date the NOT was submitted, unless, within the 30 calendar days the Regional Water

Board notifies the discharger through SMARTS that the Notice of Termination has been denied, returned, or accepted for review (2022 CGP Section III.H.7).

Note: If an Annual Report has not been filed in the current reporting year, an Annual Report will need to be submitted prior to the NOT.

Section 2 Project Information

2.1 PROJECT AND SITE DESCRIPTION

2.1.1 Site Description

The Temperance Elementary School is comprised of approximately 17.50 acres and is located on the southwest of East California and South Temperance Avenue, in Fresno, Fresno County, California. The project site is located approximately 1.3 miles south of Highway 180 and 7.5 miles north of Highway 99. The project is located at latitude 36.71852778 and longitude -119.66618883 and is identified on the Site Map in Appendix A.

2.1.2 Existing Conditions

As of the initial date of this SWPPP, the project site area was essentially level and an existing abandoned single-family residence building and landscaping (including several mature trees) were noted in the southeast portion of the site. The ground surface at the site was covered with short green and dry native grasses and weeds. Much of the site appeared to have been disced prior to the recent vegetation growth.

Google Earth imagery indicates the site lies at an elevation of about 322 feet above mean sea level.

2.1.3 Existing Drainage

The project site is generally flat. The elevation of the project site is approximately 322 feet above mean sea level (msl). Surface drainage at the site currently flows in a northwesterly direction. The existing site of topography, drainage patterns, and stormwater conveyance system are shown on the project construction drawings, incorporated herein by reference.

The project does not discharge to any receiving water bodies. The water quality impairments (303 (d) list and TMDLs identified in the 2022 CGP Table H-1 for the receiving waters are identified in Table 2-1.

Table 2-1 Applicable 303(d) List Impairments and TMDLs

Receiving Water	Water Quality Impairment	
	303(d) list	TMDL (2022 CGP Table H-1)
NA		

2.1.4 Geology and Groundwater

The subsurface soils encountered during the initial investigation generally consist of surface silty sands underlain by interbedded layers of clayey sand, poorly graded sand, poorly graded sand with silt, and silty sand. Cemented soils, locally referred to as 'hardpan', were encountered at depths as shallow as about 1 feet BSG. The hardpan soils were noted to extend to depths ranging from 5 to 15 feet BSG. A direct shear test conducted on a sample collected from a depth at 25 feet BSG resulted in an internal angle of friction of 47 degrees with a cohesion value of 130-pound square foot. Free groundwater was not encountered within the depth of exploration, 31.5 feet in any borings at the time of the geotechnical investigation. Seasonal perched water conditions may

occur due to the shallow depth to hardpan encountered. For additional information, please reference the project geotechnical report dated May 10, 2021, prepared by Salem Engineering Group, Inc. (Report Project No. 1-220-0695).

2.1.5 Project Description

Project Grading will occur on all 17.50 acres of the project. This involves the construction of CMU wall foundations for the service yard area, play courts, and baseball/softball backstops. These proposed improvements are located east of the proposed campus buildings. The limits of the project are shown in Appendix A.

2.1.6 Developed Condition

Post construction surface drainage will be directed to drain inlets, located within new street curbs and gutters. The surface drainage will first surface flow and then be collected through a stormwater conveyance system. Proposed drain inlets will discharge into the proposed-on site retention basin. Post construction drainage patterns and conveyance systems are presented in Appendix B.

2.2 PERMITS AND GOVERNING DOCUMENTS

In addition to the 2022 CGP, the following documents have been taken into account while preparing this SWPPP:

- Regional Water Board requirements
- Basin Plan requirements
- Contract Documents
- Air Quality regulations and permits
- Federal Endangered Species Act
- National Historic Preservation Act/Requirements of the State Historic Preservation Office
- State of California Endangered Species Act
- Clean Water Act Section 401 Water Quality Certifications and 404 Permits
- CA Department of Fish and Game 1600 Streambed Alteration Agreement
- California Ocean Plan
- State Water Board GeoTracker database (GeoTracker)

2.3 STORMWATER RUN-ON FROM OFFSITE AREAS

There is no anticipated offsite run-on to this construction site. Construction of the project will commence, beginning with the construction of the utilities, followed by vertical construction, curb & gutter, and sidewalk.

2.4 FINDINGS OF THE CONSTRUCTION SITE SEDIMENT AND RECEIVING WATER RISK DETERMINATION

A construction site risk assessment has been performed for the project, and the resultant risk level is Risk Level 1.

The risk level was determined through the use of the K, LS provided in SMARTS. The risk level is based on project duration, location, proximity to impaired receiving waters and soil conditions. A copy of the Risk Level determination submitted on SMARTS with the PRDs is included in Appendix B.

Table 2-3 and Table 2-4 summarize the sediment and receiving water risk factors and document the sources of information used to derive the factors.

Table 2-3 Summary of Sediment Risk

RUSLE Factor	Value	Method for Establishing Value
R	23.27	Rainfall Erosivity Factor Calculator
K	.24	GIS Layer Data
LS	.24	GIS Layer Data
Total Predicted Sediment Loss (tons/acre)		
Overall Sediment Risk Low Sediment Risk < 15 tons/ acre Medium Sediment Risk >= 15 and < 75 tons/acre High Sediment Risk >= 75 tons/acre		☒ **Low** ☐ **Medium** ☐ **High**

There is no runoff from the project site

Table 2-4 Summary of Receiving Water Risk

Receiving Water Name	303(d) Listed for Sediment Related Pollutant (1)	TMDL for Sediment Related Pollutant (1)	Beneficial Uses of COLD, SPAWN, and MIGRATORY (1)
NA	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
Overall Receiving Water Risk			☒ **Low** ☐ **High**
(1) If yes is selected for any option the Receiving Water Risk is High			

Risk Level 1 sites are subject to the narrative effluent limitations specified in the 2022 CGP and may be subject to numeric effluent limits for applicable TMDLs, dewatering activities, active treatment systems and passive treatment systems used on site. The narrative effluent limitations require stormwater discharges associated with construction activity to minimize or prevent pollutants in stormwater and authorized non-stormwater through the use of controls, structures, and best management practices (BMPs). This SWPPP has been prepared to address Risk Level 1 requirements (2022 CGP Attachment D).

Table 2-5 Numeric Action Levels and Numeric Effluent Limits

Parameter	Unit	Numeric Action Level	Numeric Effluent Limit
pH	pH units	Lower NAL < 6.5 Upper NAL > 8.5	Not Applicable
Turbidity	NTU	> 250 NTU	Not Applicable

Table 2-6 Numeric Action Levels, Numeric Effluent Limits, and Receiving Water Monitoring Triggers

Parameter	Unit	Numeric Action Level	Numeric Effluent Limit	Receiving Water Monitoring Trigger
pH	pH units	Lower NAL = 6.5 Upper NAL = 8.5	Not Applicable	Lower Trigger = 6.0 Upper Trigger = 9.0
Turbidity	NTU	250 NTU	Not Applicable	500 NTU

Projects that discharge to a water body and or watershed listed in Table H-2 are subject to both the narrative and numeric effluent limitations imposed by the TMDL requirements in Attachment H. Narrative effluent limitations applicable to this project are: [provide a brief summary of any narrative requirements from Table H-2]. [Numeric Effluent Limitations applicable to this project are listed in Table 2-7.] This SWPPP has been prepared to address the TMDL requirements (2022 CGP Attachment H).

Table 2-7 TMDL Numeric Action Levels, Numeric Effluent Limits

TMDL	Parameter	Unit	Numeric Action Level	Numeric Effluent Limit
TMDL	TMDL-related Pollutant	Refer to Table H-2 in Attachment H	Refer to Table H-2 in Attachment H	Refer to Table H-2 in Attachment H
TMDL	TMDL-related Pollutant	Refer to Table H-2 in Attachment H	Refer to Table H-2 in Attachment H	Refer to Table H-2 in Attachment H
TMDL	TMDL-related Pollutant	Refer to Table H-2 in Attachment H	Refer to Table H-2 in Attachment H	Refer to Table H-2 in Attachment H

2.5 CONSTRUCTION SCHEDULE

The site sediment risk was determined based on construction taking place between 1/4/2027 and 9/1/2028. Modification or extension of the schedule (start and end dates) may affect risk determination and permit requirements. The LRP shall contact the QSD if the schedule changes during construction to address potential impact to the SWPPP. The estimated schedule for planned work can be found in Appendix E.

2.6 POTENTIAL CONSTRUCTION ACTIVITY AND POLLUTANT SOURCES

Appendix F includes a list of construction activities and associated materials that are anticipated to be used onsite as well as the pollutant source assessment form that was completed for the project. These activities and associated materials will or could potentially contribute pollutants, other than sediment, to stormwater runoff.

The anticipated activities and associated pollutants were used in Section 3 to select the BMPs for the project. Locations of anticipated pollutants and associated BMPs are shown on the Site Map in Appendix A.

Additionally, proper measures will be taken to ensure that trench spoils or any other disturbed soil during construction activities that are contaminated are not discharged with stormwater or non-stormwater discharges into storm drains or water bodies (except pursuant to a separate NPDES Permit). If contaminated soils are found on site, and the party responsible cannot be identified or fails to take action, soils will be sampled to determine proper handling and protect public safety. The appropriate local, State, and federal agencies along with the appropriate Regional Water Board will be notified when contaminated soils are observed.

For sampling requirements for non-visible pollutants associated with construction activity, please refer to Section 7.7.1. For a full and complete list of onsite pollutants, refer to the Safety Data Sheets (SDS), which are retained onsite at the construction trailer or are available electronically at the site.

2.7 TMDL REQUIREMENTS

Based on the project's receiving water and the pollutant source assessment, the following TMDLs are applicable to the project (See 2022 CGP Attachment H).

Table 2-8 Project TMDLs

TMDL	Applicable Water Body/ Watershed	Pollutants	Additional TMDL-Related NAL or NEL	Compliance Actions
NA				

These TMDLs are also identified in Section 2.1.3. The applicable NALs and NELs are also identified in Section 2.4. BMP requirements related to TMDLs are discussed in Section 3.4. Monitoring requirements related to TMDLs are discussed further in Section 7.7.

2.8 IDENTIFICATION OF NON-STORMWATER DISCHARGES

Non-stormwater discharges into storm drainage systems or waterways, which are not authorized under the 2022 CGP and listed in the SWPPP, or authorized under a separate NPDES permit, are prohibited.

Non-stormwater discharges that are authorized from this project site include the following:

- NONE

These authorized non-stormwater discharges will be managed with the stormwater and non-stormwater BMPs described in Section 3 of this SWPPP and will be minimized under the direction of the QSP. Additionally, the non-stormwater discharges not applicable to this project are still allowable granted they do not contact potential pollutant sources.

Activities at this site that may result in unauthorized non-stormwater discharges include:

- NONE

Steps will be taken, including the implementation of appropriate BMPs, to ensure that unauthorized discharges are eliminated, controlled, disposed, or treated on-site.

Discharges of construction materials and waste, such as fuel or paint, resulting from dumping, spills, or direct contact with rainwater or stormwater runoff, are also prohibited.

The following discharge(s) have been authorized by (a) regional NPDES permit(s):

- NONE

2.9 REQUIRED SITE MAP INFORMATION

The construction project's Site Map(s) showing the project location, surface water boundaries, geographic features, construction site perimeter and general topography, locations of storm drain inlets that receive runoff from the project, and other requirements identified in 2022 CGP Sections IV.O.2. k. and l are located in Appendix A. Table 2-9 identifies Maps or Sheet Nos. where required elements are illustrated.

Table 2-9 Required Map Information

Included on Map/Plan Sheet No. [1]	Required Element
Pre-Earthwork Drawings	
Appendix A	Site and project boundaries
Appendix A	Areas disturbed during geotechnical or other preconstruction investigation work
Appendix A	Existing roads and trails
Appendix A	Drainage areas
Appendix A	Discharge locations

Table 2-9 Required Map Information

Included on Map/Plan Sheet No. [1]	Required Element
Appendix A	Existing storm drain system if applicable
Appendix A	Proposed locations of storage areas for waste
Appendix A	Proposed locations of construction materials
Appendix A	Proposed locations of project staging areas
Appendix A	Proposed locations of stockpiles
Appendix A	Proposed locations of vehicles, equipment staging and vehicle maintenance
Appendix A	Proposed locations of loading/unloading materials
Appendix A	Proposed locations of site access (entrance/exits)
Appendix A	Proposed locations of fueling, water storage, water transfer for dust control
Appendix A	Proposed locations of demolition
Appendix A	Proposed locations of other construction support activities
Construction and Earthwork Drawing(s)	
Appendix A	Site layout (grading plans) including roads
Appendix A	Site and project boundaries
Appendix A	Drainage areas
Appendix A	Discharge locations
Appendix A	Sampling locations
Appendix A	Areas of soil disturbance (temporary or permanent)
Appendix A	Proposed active areas of soil disturbance (cut or fill)
Appendix A	Proposed locations of erosion control BMPs
Appendix A	Proposed locations of sediment control BMPs
Appendix A	Proposed locations of run-off BMPs
Appendix A	Temporary and/or permanent run-on conveyance (if applicable)
Appendix A	Proposed locations of active treatment systems(s) (if applicable)
Appendix A	Proposed locations of storage areas for waste
Appendix A	Proposed locations of construction materials
Appendix A	Proposed locations of project staging areas
Appendix A	Proposed locations of stockpiles
Appendix A	Proposed locations of vehicles, equipment and vehicle maintenance
Appendix A	Proposed locations of loading/unloading materials

Table 2-9 Required Map Information

Included on Map/Plan Sheet No. (1)	Required Element
Appendix A	Proposed locations of site access (entrance/exits)
Appendix A	Proposed locations of fueling, water storage, water transfer for dust control
Appendix A	Proposed locations of demolition
Appendix A	Proposed locations of other construction support activities
Appendix A	Site-specific procedures to implement final stabilization BMPs as soon as reasonably practicable

Notes: (1) Indicate maps or drawings that information is included on (e.g., Vicinity Map, Site Map, Drainage Plans, Grading Plans, Progress Maps.)

Section 3 Best Management Practices

3.1 SCHEDULE FOR BMP IMPLEMENTATION

BMPs will be implemented as per the schedule indicated in Table 3-1.

Table 3-1 BMP Implementation Schedule

	BMP	Location	Implementation	Duration
Erosion Control BMPs	EC-1, Scheduling	Review site map in Appendix A	Prior to Construction	Segment Completion
	EC-2, Preservation of Existing Vegetation	Review site map in Appendix A	Start of Construction	Segment Completion
Sediment Control BMPs	SE-1, Silt Fence	Review site map in Appendix A	Start of Construction	Entire Project/As Needed
	SE-5, Fiber Rolls	Review site map in Appendix A	Start of Construction	Entire Project/ As Needed
	SE-7, Street Sweeping and Vacuuming	Review site map in Appendix A	Start of Construction	Entire Project/As Needed
	SE-10, Storm Drain Inlet Protection	Review site map in Appendix A	Start of Construction	Entirety of Project
Wind Erosion Control BMPs	WE-1, Wind Erosion Control	Review site map in Appendix A	Start of Construction	Entirety of Project
Tracking Control BMPs	TC-1, Stabilized Construction Entrance/Exit	Review site map in Appendix A	Start of Construction	Entirety of Project/As Needed
Non-Stormwater Control BMPs	WM-4, Spill Prevention and Control	Review site map in Appendix A	Start of Construction	Entirety of Project
	NS-1, Water Conservation Practices	Review site map in Appendix A	Start of Construction	Entire Project/As Needed
	NS-3, Paving and Grinding Operation	Review site map in Appendix A	Start of Construction	Entire Project/As Needed
	NS-6 Illicit Connection-Illegal Discharge Connection	Review site map in Appendix A	Start of Construction	Entire Project/As Needed

BMPs will be implemented as per the schedule indicated in Table 3-1.

Table 3-1 BMP Implementation Schedule

	BMP	Location	Implementation	Duration
	NS-8, Vehicle and Equipment Cleaning	Review site map in Appendix A	Start of Construction	Entire Project/As Needed
	NS-10, Vehicle and Equipment Fueling	Review site map in Appendix A	Start of Construction Start of Construction	Entire Project/As Needed
	NS-12, Concrete Curing	Review site map in Appendix A	Start of Construction	Entire Project/As Needed
	NS-13, Concrete Finishing	Review site map in Appendix A	Start of Construction	Entire Project/As Needed
Construction Material Control BMPs	WM-01, Material Delivery and Storage	Review site map in Appendix A	Start of Construction	Entire Project/As Needed
	WM-02, Material Use	Review site map in Appendix A	Start of Construction	Entire Project/As Needed
	WM-03, Stockpile Management	Review site map in Appendix A	Start of Construction	Entire Project/As Needed
	WM-04, Spill Prevention and Control	Review site map in Appendix A	Start of Construction	Entire Project/As Needed
Waste Management Control BMPs	WM-05, Solid Waste Management	Review site map in Appendix A	Start of Construction	Entire Project/As Needed
	WM-06, Hazardous Waste Management	Review site map in Appendix A	Start of Construction	Entire Project/As Needed
	WM-08, Concrete Waste Management	Review site map in Appendix A	Start of Construction	Entire Project/As Needed
	WM-09, Sanitary-Septic Waste Management	Review site map in Appendix A	Start of Construction	Entire Project/As Needed
	WM-10, Liquid Waste Management	Review site map in Appendix A	Start of Construction	Entire Project/As Needed

3.2 EROSION AND SEDIMENT CONTROL

Erosion and sediment controls are required by the 2022 CGP to provide effective reduction or elimination of sediment related pollutants in stormwater discharges and authorized non-stormwater discharges from the Site. Applicable BMPs are identified in this section for erosion control, sediment control, tracking control, and wind erosion control.

3.2.1 Erosion Control

Erosion control, also referred to as soil stabilization, consists of source control measures that are designed to prevent soil particles from detaching and becoming transported in stormwater runoff. Erosion control BMPs protect the soil surface by covering and/or binding soil particles.

This construction project will implement the following practices to provide effective temporary and final erosion control during construction:

1. Preserve existing vegetation where required and when feasible.
2. The area of soil disturbing operations shall be controlled such that the Contractor is able to implement erosion control BMPs quickly and effectively.
3. Stabilize non-active areas within 14 days of cessation of construction activities or sooner if stipulated by local requirements.
4. Control erosion in concentrated flow paths by applying erosion control blankets, check dams, erosion control seeding, or alternate methods.
5. Prior to the completion of construction, apply permanent erosion control to remaining disturbed soil areas.

Sufficient erosion control materials shall be maintained onsite to allow implementation in conformance with this SWPPP.

The following erosion control BMP selection table, Table 3-2 indicates the BMPs that will be implemented to control erosion on the construction site. Fact Sheets for temporary erosion control BMPs are provided in Appendix G.

These temporary erosion control BMPs shall be implemented in conformance with the following guidelines and as outlined in the BMP Factsheets provided in Appendix G. If there is a conflict between documents, the Site Map will prevail over narrative in the body of the SWPPP or guidance in the BMP Fact Sheets. Site specific details in the Site Map prevail over standard details included in the Site Map. The narrative in the body of the SWPPP prevails over guidance in the BMP Fact Sheets.

Table 3-2 Erosion Control BMPs

CASQA Fact Sheet	BMP Name	Considered for the Project [1]	BMP Used		If not used, state reason and alternate BMP, if applicable
			YES	NO	
EC-1	Scheduling	✓	✓		
EC-2	Preservation of Existing Vegetation	✓	✓		
EC-3	Hydraulic Mulch	✓[2]		✓	Not Necessary
EC-4	Hydroseed	✓[2]		✓	Not Necessary
EC-5	Soil Binders	✓[2]		✓	Not Necessary
EC-6	Straw Mulch	✓[2]		✓	Not Necessary
EC-7	Geotextiles and Mats	✓[2]		✓	Not Necessary
EC-8	Wood Mulching	✓[2]		✓	Not Necessary
EC-9	Earth Dike and Drainage Swales	✓[3]		✓	Not Necessary
EC-10	Velocity Dissipation Devices	✓[3]		✓	Not Necessary
EC-11	Slope Drains	✓[3]		✓	Not Necessary
EC-12	Stream Bank Stabilization			✓	Not Necessary
EC-14	Compost Blankets	✓[2]		✓	Not Necessary
EC-15	Soil Preparation-Roughening	✓		✓	Not Necessary
EC-16	Non-Vegetated Stabilization	✓[2]		✓	Not Necessary
WE-1	Wind Erosion Control	✓	✓		

[1] The 2022 CGP Fact Sheet Section I.R.1.d.through I.R.1.i.describes various BMPs that should be considered for use on the construction site.

[2] The QSD shall ensure implementation of one of the minimum measures listed or a combination thereof to achieve and maintain the Risk Level requirements.

[3] All run-on and runoff from the construction site shall be managed for Risk Level 2 and 3 and Risk Level 1 if the evaluation of quantity and quality of run-on and runoff deems them necessary or visual observations show that the site requires these controls. Run-on from offsite shall be directed away from all disturbed areas, diversion of offsite flows may require design/analysis by a licensed civil engineer and/or additional environmental permitting.

Scheduling

The weather forecast will be monitored and BMPs will be inspected and maintained prior to forecast storm events. Construction activities with potential to disturb soil or discharge non-visible pollutants will be minimized prior to and during storm events.

Preservation of Existing Vegetation

Existing vegetation shall be preserved to the maximum extent practicable. Orange construction fencing or equivalent will be installed under the direction of the QSP around the applicable project perimeters to delineate the staging/work areas or vegetation. This device may also be used in the staging area to delineate areas used for staging as well as those that need to be preserved.

Wind Erosion Control

Wind Erosion Control will be implemented to reduce airborne particles. As necessary, water will be applied to keep soil moist and control dust during soil or asphalt disturbing activities. Water shall be applied at rates that moisten the soil but do not generate runoff. If non-potable or reclaimed water (including water removed from trenches) is used for dust control, the sources and discharges must meet California Department of Health Services water reclamation criteria and the RWQCB requirements. Non-potable water shall not be conveyed in tanks or drainpipes that will be used to convey potable water and there shall be no connection between potable and non-potable supplies. Non-potable tanks, pipes, and other conveyances should be marked, "NON-POTABLE WATER- DO NOT DRINK."

3.2.2 Sediment Controls

Sediment controls are temporary or permanent structural measures that are intended to complement the selected erosion control measures and reduce sediment discharges from active construction areas. Sediment controls are designed to intercept and settle out soil particles that have been detached and transported by the force of water.

The following sediment control BMP selection table indicates the BMPs that will be implemented to control sediment on the construction site. Fact Sheets for temporary sediment control BMPs are provided in Appendix G.

These temporary sediment control BMPs will be implemented in conformance with the following guidelines and in accordance with the BMP Fact Sheets provided in Appendix G. If there is a conflict between documents, the Site Map will prevail over narrative in the body of the SWPPP or guidance in the BMP Fact Sheets. Site specific details in the Site Map prevail over standard details included in the Site Map. The narrative in the body of the SWPPP prevails over guidance in the BMP Fact Sheets.

Table 3-3 Temporary Sediment Control BMPs

CASQA Fact Sheet	BMP Name	Considered for the Project [1]	BMP used		If not used, state reason and alternate BMP, if applicable
			YES	NO	
SE-1	Silt Fence	✓[2] [3]	✓		
SE-2	Sediment Basin			✓	Not Necessary
SE-3	Sediment Trap			✓	Not Necessary
SE-4	Check Dams			✓	Not Necessary
SE-5	Fiber Rolls	✓[2][3]	✓		
SE-6	Gravel Bag Berm	✓[3]		✓	As Needed
SE-7	Street Sweeping	✓	✓		
SE-8	Sandbag Barrier			✓	Not Necessary
SE-9	Straw Bale Barrier			✓	Not Necessary
SE-10	Storm Drain Inlet Protection	✓ RL2&3	✓		
SE-11	ATS			✓	Not Necessary
SE-12	Manufactured Linear Sediment Controls			✓	Not Necessary
SE-13	Compost Sock and Berm	✓[3]		✓	Not Necessary
SE-14	Biofilter Bags	✓[3]		✓	Not Necessary
NA	Passive Treatment System			✓	Not Necessary
TC-1	Stabilized Construction Entrance and Exit	✓	✓		
TC-2	Stabilized Construction Roadway			✓	Not Necessary
TC-3	Entrance Outlet Tire Wash			✓	Not Necessary

[1] The 2022 CGPs Fact Sheet Section I.R.1.d through I.R.1.i describes various BMPs that should be considered for use on the construction site.
[2] The QSD shall ensure implementation of one of the minimum measures listed or a combination thereof to achieve and maintain the Risk Level requirements.
[3] All run-on and runoff from the construction site shall be managed. Risk Level 2 and 3 shall provide linear sediment control along toe of slope, face of slope, and at the grade breaks of exposed slope.

Silt Fence

Silt Fencing will be utilized below the toe or down slope of exposed and erodible slopes

Fiber Rolls

The QSP/QSD will verify locations for the installation of fiber rolls to delineate potential areas that may come in contact with potential pollutants on public and private properties. Fiber rolls will be the primary perimeter control used on the site. It may also be used to prevent run-on from entering disturbed areas and prevent sediment-laden run-off from leaving work areas during precipitation. Fiber rolls may be installed up-gradient in sections of the project area for additional run-on control if inspections deem it necessary. Fiber rolls may also be utilized during grading activities to contain sediments in the area of origin. Fiber rolls shall be placed around stockpiles left on site overnight.

Street Sweeping

Street sweeping shall be implemented on affected nearby roadways and intersections for the duration of the Project. If trackout, sediment, or construction materials are observed on the roads, hand brooms or mechanical street sweeping will be performed by the end of each day. Construction entrances/exits will be inspected daily. If trackout is observed on asphalt paved roads during construction activities, the following requirements will apply: • Washing of streets is prohibited; • Road vacuuming may occur as necessary to keep the street clear of soil and debris; • If street-vacuuming equipment is ineffective, either by design or mechanical condition, it will be replaced with equipment or operations that adequately address the needs of the project A suitable site will be selected for disposal of accumulated sediment.

Storm Drain Inlet Protection

All existing storm drain inlets will be protected prior to demolition taking place in the project area. Drain inlets will be protected with a combination of mesh filter fabric inserts and/or gravel bags. These BMPs will be inspected after the conclusion of a rain event for sediment build-up and maintenance provided as needed. All newly installed drain inlets will be immediately protected using the same devices. Once the project is complete the materials will be removed, and the catch basin cleaned.

Stabilized Construction Entrance and Exit

A stabilized entrance (or similar effective device) shall be constructed as called out on the Site Map. Once constructed, this device is anticipated to be the primary point of ingress or egress to the construction work area and staging area. Street sweeping (SE-7) shall be used in conjunction with the construction of an aggregate entrance and/or rumble rack/rumble strip entrance to prevent track-out issues. The aggregate entrance constructed per the requirements provided in Fact Sheet TC-1 could be supplemented with rumble racks of steel panels with ridges.

3.3 NON-STORMWATER CONTROLS AND WASTE AND MATERIALS MANAGEMENT

3.3.1 Non-Stormwater Controls

Non-stormwater discharges into storm drainage systems or waterways which are not authorized under the 2022 CGP are prohibited. Non-stormwater discharges for which a separate NPDES permit is required by the local Regional Water Board are prohibited unless coverage under the separate NPDES permit has been obtained for the discharge. The selection of non-stormwater BMPs is based on the list of construction activities with a potential for non-stormwater discharges identified in Section 2.7 of this SWPPP.

The following non-stormwater control BMP selection table indicates the BMPs that will be implemented to control sediment on the construction site. Fact Sheets for temporary non-stormwater control BMPs are provided in Appendix G.

Non-stormwater BMPs will be implemented in conformance with the following guidelines and in accordance with the BMP Fact Sheets provided in Appendix G. If there is a conflict between documents, the Site Map will prevail over narrative in the body of the SWPPP or guidance in the BMP Fact Sheets. Site specific details in the Site Map prevail over standard details included in the Site Map. The narrative in the body of the SWPPP prevails over guidance in the BMP Fact Sheets.

Table 3-4 Temporary Non-Stormwater BMPs

CASQA Fact Sheet	BMP Name	Considered for the Project [1]	BMP used		If not used, state reason and alternate BMP, if applicable
			YES	NO	
NS-1	Water Conservation Practices	✓	✓		
NS-2	Dewatering Operation			✓	Not Necessary
NS-3	Paving and Grinding Operation	✓	✓		
NS-4	Temporary Stream Crossing			✓	Not Necessary
NS-5	Clear Water Diversion			✓	Not Necessary
NS-6	Illicit Connection/Discharge	✓	✓		
NS-7	Potable Water/Irrigation	✓		✓	Not Necessary
NS-8	Vehicle and Equipment Cleaning	✓	✓		
NS-9	Vehicle and Equipment Fueling	✓	✓		
NS-10	Vehicle and Equipment Maintenance	✓	✓		
NS-11	Pile Driving Operation			✓	Not Necessary
NS-12	Concrete Curing	✓	✓		
NS-13	Concrete Finishing	✓	✓		
NS-14	Material and Equipment Use Over Water			✓	Not Necessary
NS-15	Demolition Removal Adjacent to Water			✓	Not Necessary
NS-16	Temporary Batch Plants			✓	Not Necessary

[1] The 2022 CGP Fact Sheet Section I.R.1.d through I.R.1.i describes various BMPs that should be considered for use on the construction site.

Water Conservation Practices

Activities that use water during construction on a project shall be performed in a manner that avoids causing erosion and/or the transport of pollutants off-site. Maintenance of equipment should include repairs of leaks in water hoses and fittings. Operations which require the use of water shall be monitored during activities to identify and prevent unnecessary discharges of water.

- Water supplies shall be checked for leaks and repaired promptly;
- Avoid the use of water to clean construction areas. Do not use water to clean pavement;
- Paved areas shall be swept;
- Direct construction water run-off to areas where it can infiltrate into the ground, when feasible;
- Apply water for dust control in accordance with WE-1, "Wind Erosion Control";
- Potable water discharges shall be approved by the local regulatory agency, where required; and
- When potable water discharges occur, they shall be made in a manner that prevents introduction of sediment, turbidity or other pollutants to the discharge

Paving and Grinding Operation

Many types of construction materials associated with paving and grinding operations, including mortar, concrete, and cement and their associated wastes have basic chemical properties that can raise pH levels outside of the permitted range. Additional care should be taken when managing these materials to prevent them from coming into contact with stormwater flows, which could lead to exceedances of the General Permit requirements. These procedures are implemented where paving, surfacing, resurfacing, or saw-cutting may pollute stormwater runoff or discharge to the storm drain system or watercourses. Avoid paving during the wet season when feasible.

- Reschedule paving and grinding activities if rain is forecasted.
- Train employees and sub-contractors in pollution prevention and reduction.
- Store materials away from drainage courses to prevent stormwater run-on (see WM-1, Material Delivery and Storage).
- Protect drainage courses, particularly in areas with a grade, by employing BMPs to divert runoff or to trap and filter sediment.
- Stockpile material removed from roadways away from drain inlets, drainage ditches, and watercourses. These materials should be stored consistent with WM-3, Stockpile Management.
- Disposal of PCC (Portland cement concrete) and AC (asphalt concrete) waste should be in conformance with WM-8, Concrete Waste Management

Illicit Connection/Discharge

Contractors and project personnel shall notify the LRP if illegally deposited materials or illicit connections are observed within the project vicinity. The LRP shall document the materials or activity, determine the appropriate course of action to take and shall be responsible for notifying federal state and local authorities as necessary.

Vehicle and Equipment Maintenance

Fueling and maintenance shall occur off-site whenever feasible. If these activities occur onsite, they shall occur within the staging area and appropriate facilities shall be created for the activity. An adequate CASQA Traditional SWPPP Template 3-11 August 2023 for the 2022 CGP supply of drip pans, absorbent materials and spill kits will be stored on-site in the event they are needed for a spill response or cleanup. Equipment and vehicles will be maintained in good working condition and checked regularly for leaks. If a leak is found that cannot be repaired on-site, the equipment/vehicles will be removed from the site.

Concrete Curing

Potential concrete curing will be applied after the installation of any curb, gutter or sidewalk. Apply the material in a manner that it does not migrate into any waterway or storm drain inlet. Prohibit the application prior to or during a rain event. All excess materials will be stored in the proper secondary containment with a covering

3.3.2 Materials Management and Waste Management

Materials management control practices consist of implementing procedural and structural BMPs for handling, storing, and using construction materials to prevent the release of those materials into stormwater discharges. The amount and type of construction materials to be utilized at the Site will depend upon the type of construction and the length of the construction period. The materials may be used continuously, such as fuel for vehicles and equipment, or the materials may be used for a discrete period, such as soil binders for temporary stabilization.

Waste management consists of implementing procedural and structural BMPs for handling, storing, and ensuring proper disposal of wastes to prevent the release of those wastes into stormwater discharges.

Materials and waste management pollution control BMPs will be implemented to minimize stormwater contact with construction materials, wastes, and service areas; and to prevent materials and wastes from being discharged off-site. The primary mechanisms for stormwater contact that shall be addressed include:

- Direct contact with precipitation
- Contact with stormwater run-on and runoff
- Wind dispersion of loose materials
- Direct discharge to the storm drain system through spills or dumping
- Extended contact with some materials and wastes, such as asphalt cold mix and treated wood products, which can leach pollutants into stormwater.

A list of construction activities is provided in Section 2.6. The following Materials and Waste Management BMP selection table, Table 3-5, indicates the BMPs that shall be implemented to handle materials and control construction site wastes associated with these construction activities. Fact Sheets for Materials and Waste Management BMPs are provided in Appendix G.

Material management BMPs will be implemented in conformance with the following guidelines and in accordance with the BMP Fact Sheets provided in Appendix G. If there is a conflict between documents, the Site Map will prevail over narrative in the body of the SWPPP or guidance in the BMP Fact Sheets. Site specific details in the Site Map prevail over standard details included in the Site Map. The narrative in the body of the SWPPP prevails over guidance in the BMP Fact Sheets.

Table 3-5 Temporary Materials Management BMPs

CASQA Fact Sheet	BMP Name	Considered for Project [1]	BMP used		If not used, state reason and alternate BMP, if applicable
			YES	NO	
WM-01	Material Delivery and Storage	✓	✓		
WM-02	Material Use	✓	✓		
WM-03	Stockpile Management	✓	✓		
WM-04	Spill Prevention and Control	✓	✓		
WM-05	Solid Waste Management	✓	✓		
WM-06	Hazardous Waste Management	✓	✓		
WM-07	Contaminated Soil Management			✓	Not Necessary
WM-08	Concrete Waste Management	✓	✓		
WM-09	Sanitary-Septic Waste Management	✓	✓		
WM-10	Liquid Waste Management	✓		✓	Not Necessary

[1] The 2022 CGP Fact Sheet Section I.R.1.d through I.R.1.i describes various BMPs that should be considered for use on the construction site.

Material Delivery and Storage

Materials typically delivered to sites include construction materials, backfill/patching materials, and petroleum products such as fuel, oil and grease. These materials are typically used soon after delivery. Minimize exposure of construction materials to precipitation with the exception of materials and equipment that are designed to be outdoors and exposed to environmental conditions (i.e. poles, equipment pads, bricks, etc.). Chemicals shall be stored in watertight containers or in a completely enclosed storage shed. In the event fuel, chemicals, or hazardous materials are stored on-site, the materials will have secondary containment, and regular inspections will be conducted in the designated area. Employees and subcontractors will be trained on the proper storage, handling and use of these materials

Stockpile Management

Stockpiles include materials delivered and stored (including soil stockpiles) at the site for construction of the project. Spoil piles shall be placed no closer than 50 feet from any watercourse and shall be bermed and covered when not actively in use to protect against wind and rain. Sufficient site-appropriate stockpile covering (i.e. jute netting, plastic sheeting, erosion control blankets, etc.) to cover all spoil piles and exposed areas shall be kept on-site and accessible for immediate implementation if necessary. If stockpiles are anticipated to contain "Non-visible Pollutants" (concrete, asphalt, or certain soil binders, if used) care shall be taken to ensure storm water does not come in contact with the stockpiles. If stockpiles are placed on paved surfaces, the surface shall be cleaned when stockpiles are removed. Stockpiling on paved surfaces shall be avoided during inclement weather. Stockpiles shall be securely covered and encircled with fiber rolls when not actively in use and prior to anticipated storm events.

Spill Prevention and Control

A spill prevention and control plan shall be implemented. Equipment and materials for cleanup of spills shall be available on-site at all times and appropriate spill response personnel shall be assigned and trained in hazardous substances associated with the project activities. Typical construction site spill kits include:

- Sorbent pads
- Sorbent booms
- Sorbent socks
- Granular sorbent
- Neoprene drain cover
- Disposable bags
- Shovel
- Broom
- Safety goggles
- Nitrile gloves
- Disposable coveralls
- 55-gallon poly drum or equivalent storage container

Spill prevention shall consist of education/training on material storage, protection on existing spills, spill clean-up procedures for minor, semi-significant and significant/hazardous spills, reporting/notification CASQA Traditional SWPPP Template 3-14 August 2023 for the 2022 CGP requirements and vehicle and equipment maintenance and fueling restrictions. Spills must be

cleaned up and all contaminated materials must be collected and disposed of off-site in conformance with local, state and federal regulations. Spills must not be buried or washed with water. Liquid and powder products must be stored under covers with secondary containment features

Solid Waste Management

Spill prevention shall consist of education/training on material storage, protection on existing spills, spill clean-up procedures for minor, semi-significant and significant/hazardous spills, reporting/notification CASQA Traditional SWPPP Template 3-14 August 2023 for the 2022 CGP requirements and vehicle and equipment maintenance and fueling restrictions. Spills must be cleaned up and all contaminated materials must be collected and disposed of off-site in conformance with local, state and federal regulations. Spills must not be buried or washed with water. Liquid and powder products must be stored under covers with secondary containment features

Hazardous Waste Management

Prevent or reduce the discharge of pollutants to stormwater from hazardous waste through proper material use, waste disposal, and training of employees and subcontractors. This best management practice (BMP) applies to all construction projects. Hazardous waste management practices are implemented on construction projects that generate waste from the use of:

- Petroleum Products – Asphalt Products
- Concrete Curing Compounds – Pesticides
- Palliatives – Acids
- Septic Wastes – Paints
- Stains – Solvents

Material Use Wastes should be stored in sealed containers constructed of a suitable material and should be labeled as required by Title 22 CCR, Division 4.5 and 49 CFR Parts 172, 173, 178, and 179. All hazardous waste should be stored, transported, and disposed of as required in Title 22 CCR, Division 4.5 and 49 CFR 261-263. Waste containers should be stored in temporary containment facilities that should comply with the following requirements:

- Temporary containment facility should provide for a spill containment volume equal to 1.5 times the volume of all containers able to contain precipitation from a 25-year storm even, plus the greater of 10% of the aggregate volume of all containers of 100% of the capacity of the largest tank within its boundary, whichever is greater.
- Temporary containment facilities should be impervious to the materials stored there for a minimum contact time of 72 hours.
- Temporary containment facilities should be maintained free of accumulated rainwater and spills. In the event of spills or leaks, accumulated rainwater and spills should be placed into drums after each rainfall. These liquids should be handled as hazardous waste unless testing determines to be non-hazardous. Non-hazardous liquids should be sent to an approved disposal site.
- Sufficient separation should be provided between stored containers to allow for spill cleanup and emergency response access.

Concrete Waste Management

Concrete work immediately prior to or during rain events shall be avoided. All concrete that is demolished from the project will have appropriate stockpile coverings. Prior to a rain event, all

stockpiles will be CASQA Traditional SWPPP Template 3-15 August 2023 for the 2022 CGP covered. All contractors, sub-contractors, and workers involved in concrete work shall be trained and aware of the proper use and cleanup procedures for materials they are using

Sanitary-Septic Waste Management

Temporary sanitary facilities will be maintained in good working order, shall be located at least 50 feet away from public drainage facilities, water courses and traffic circulation, and shall be provided with some form of secondary containment. When subjected to high winds or risk of high winds, temporary sanitary facilities shall be secured to prevent overturning. Regular waste collection will be scheduled for the site and access to the facilities shall be provided for maintenance contractors so track-out will not occur.

3.4 TMDL-RELATED BMPS

Bacteria TMDL BMPs:

- The QSP shall conduct training for construction site staff on routine housekeeping and sanitary waste management of identified sources of bacteria.
- Structural BMPs designed for retention, infiltration, or diversion of stormwater shall be evaluated and implemented when the implemented minimum source control BMPs are inadequate to reduce bacteria loading to receiving waters.

Chloride and Salts TMDL BMPs:

- No additional BMPs are identified for this pollutant category in the 2022 CGP.

Diazinon TMDL BMPs:

- No additional BMPs are identified for this pollutant category in the 2022 CGP.

Nutrient TMDL BMPs:

- No additional BMPs are identified for this pollutant category in the 2022 CGP.

Sediment TMDL BMPs:

- No additional BMPs are identified for this pollutant category in the 2022 CGP.

Temperature BMPs:

- No additional BMPs are identified for this pollutant category in the 2022 CGP.

Metals and Toxics TMDL BMPs:

- No additional BMPs are identified for this pollutant category in the 2022 CGP.

3.5 POST CONSTRUCTION STORMWATER MANAGEMENT MEASURES

Post construction BMPs are permanent measures installed during construction, designed to reduce or eliminate pollutant discharges from the site after construction is completed.

This site is subject to the post-construction requirements of existing NPDES Phase I or Phase II MS4. ☒ Yes ☐ No

A plan for the post construction funding and maintenance of these BMPs has been developed to address at minimum five years following construction. The post construction BMPs that are described above will be funded and maintained as described in the Operations and Maintenance Plan that will be uploaded with the NOT.

Section 4 BMP Inspection and Maintenance

4.1 BMP INSPECTION AND MAINTENANCE

The 2022 CGP requires routine weekly observations of BMPs, along with observations before, during, and after qualifying precipitation events. A BMP inspection checklist must be filled out for observations and maintained on-site with the SWPPP. The inspection checklist must include the necessary information covered in Section 7.6. A blank BMP Inspection Form can be found in Appendix H. Completed forms will be kept in Appendix N.

Maintenance, repair, or design and implementation of new BMPs alternatives will begin withing 72 hours of the identification of failures or other shortcomings. Corrections will be completed as soon as possible, prior to the next forecasted precipitation event (2022 CGP Appendix D Section II.J).

The QSP will verify that all BMP maintenance and repairs were appropriately implemented during the next visual inspection following completion.

The QSP may delegate BMP maintenance and repair verification to an appropriately trained QSP Delegate.

Specific details for maintenance, inspection, and repair of Construction Site BMPs can be found in the BMP Factsheets in Appendix G.

Section 5 Training

Appendix J identifies the QSPs and QSP Delegates for the project. To promote stormwater management awareness specifically for this project, periodic training of job-site personnel will be included as part of routine project meetings (e.g., daily/weekly tailgate safety meetings), or task specific training as needed. Refresher training will be provided as necessary.

The QSP will be responsible for providing this information at the meetings and subsequently completing the Training Reporting Form shown in Appendix I, which identify the site-specific stormwater topics covered as well as the names of site personnel who attended the meeting.

The QSP may delegate specific tasks to trained QSP Delegates who have received the following training based on the guidelines developed by the Construction General Permit Training Team.

1. **Foundational training** for all QSP Delegate(s) regarding stormwater compliance roles and responsibilities, forecast information, and documentation and reporting procedures; and
2. **Site-specific training** regarding visual observations, sampling procedures, and/or SWPPP and BMP implementation activities relevant to the responsibilities assigned to the QSP Delegate(s).

The delegate cannot perform the QSD and QSP observations required in Section V.C.4 or Section V.D.2, respectively.

Documentation of training activities will be retained in Appendix I.

Section 6 Responsible Parties and Operators

6.1 RESPONSIBLE PARTIES

DAR(s) who are responsible for SWPPP implementation and have authority to sign permit-related documents [is/are] listed below. The DAR(s) assigned to this project [is/are]:

Name	Title	Phone Number
Ryan Kilby	Legally Responsible Person	(559) 524-7600
TBD once project is awarded		

QSD(s) identified for the project are identified in Appendix J. The QSD will have primary responsibility for assessing how construction activities will affect sediment transport, erosion, and other discharges of pollutants in stormwater runoff throughout the project. The QSD is required to revise the SWPPP to address potential problems identified by visual observations, sampling data, comments from a QSP, or their own site observations. The QSD is required to perform the following on-site visual observations:

- Within 30 days of construction activities commencing on site;
- Within 30 days when a new QSD is assigned to the project;
- Twice annually, once August through October and once January through March;
- Within 14 calendar days after a numeric action level exceedance; and
- Within the time period requested in writing from Regional Water Board staff.

QSPs and QSP Delegates identified for the project are identified in Appendix J. The QSP will have primary responsibility and significant authority for the implementation, maintenance, and inspection/monitoring of SWPPP requirements. The QSP will be available at all times throughout the duration of the project.

Duties of the QSP include but are not limited to:

- Implementing all elements of the 2022 CGP and SWPPP, including, but not limited to:
    - Performing the following on-site visual observations:
        - One inspection per calendar month; other weekly observations in the month can be delegated to a trained QSP Delegate under the specific direction of the QSP.
        - Within 72 hours prior to a forecasted qualifying precipitation event, to inspect any areas of concern and to verify the status of any deficient BMPs, or other identified issues at the site. If extended forecast precipitation data (greater than 72 hours) is available from the *National Weather Service*, then the Pre-Precipitation Event inspection may be done up to 120 hours in advance.
        - Within 14 days after a NAL exceedance, the QSP shall visually inspect the drainage area for exceedance and document any areas of concern.
        - Prior to the submittal for the NOT or COI (for acreage changes) for all or part of the site.

- Ensuring that all BMPs are implemented, inspected, and properly maintained;
- Ensure that the SMARTS generated WDID Number Notification form is posted on-site, in a location viewable by the public or readily available upon request, and the dates are correct and match the dates listed in SMARTS.

- Implementing non-stormwater management, and materials and waste management activities such as monitoring discharges; general Site clean-up; vehicle and equipment cleaning, fueling and maintenance; spill control; ensuring that no materials other than stormwater are discharged in quantities which will have an adverse effect on receiving waters or storm drain systems, etc.;
- Ensuring elimination of unauthorized discharges.
- The QSPs shall be assigned authority by the LRP to mobilize crews in order to make immediate repairs to the control measures.
- Coordinate with the Contractor(s) to assure the necessary corrections/repairs are made immediately and that the project complies with the SWPPP, the 2022 CGP, and approved plans at all times.
- Notifying the LRP or Duly Authorized Representative immediately of off-site discharges or other non-compliance events.
- Providing foundation and site-specific training to QSP Delegates and overseeing QSP Delegate work. Tasks that may be delegated to appropriately trained QSP-delegates include:
  - Performing non-stormwater and stormwater visual observations and observations;
  - Performing stormwater sampling and analysis, as required; and
  - Performing routine observations and observations.

Table 6-1. QSP and QSP Delegate Authorized Observations

	Weekly BMP and NSW	Pre-QPE	Daily-QPE Visual Observations	Post-QPE Visual Observations	Post NAL Exceedances	Monthly BMP and NSW	NOT
QSP	X	X	X	X	X	X	X
QSP Delegate	X		X	X			

6.2 CONTRACTOR LIST

Contractor Name:	
Title:	
Contractor Company:	
Address	
Phone Number:	
Phone Number (24/7)	
[Add additional rows, if needed]	

Section 7 Construction Site Monitoring Program

7.1 Purpose

This Construction Site Monitoring Program was developed to address the following objectives:

1. To demonstrate that the site is in compliance with the Discharge Prohibitions [and Numeric Action Levels (NALs)];
2. To demonstrate that the site is in compliance with TMDL NALs and Numeric Effluent Limitations (NELs);
3. To determine whether non-visible pollutants discharged from the construction site and are causing or contributing to exceedances of water quality objectives;
4. To determine whether immediate corrective actions, additional BMP implementation, or SWPPP revisions are necessary to reduce pollutants in stormwater discharges and authorized non-stormwater discharges;
5. To determine whether BMPs included in the SWPPP are effective in preventing or reducing pollutants in stormwater discharges and authorized non-stormwater discharges.

7.2 Applicability of Permit Requirements

This project has been determined to be a Risk Level 1 project. The 2022 CGP identifies the following types of monitoring as being applicable for a Risk Level 1 project.

Risk Level 1

- Visual observations of BMPs;
- Visual monitoring of the site related to qualifying precipitation events;
- Visual monitoring of the site for non-stormwater discharges;
- Sampling and analysis of construction site runoff for non-visible pollutants [including TMDL pollutants] identified during the pollutant source assessments when applicable; and
- Sampling and analysis of construction site runoff as required by the Regional Water Board when applicable.

7.3. Weather and Precipitation Event Tracking

Visual monitoring and inspections requirements of the 2022 CGP are triggered by a Qualifying Precipitation Event. The 2022 CGP defines a Qualifying Precipitation Event as any weather pattern that is forecast to have a 50 percent or greater Probability of Precipitation (PoP) and a Quantitative Precipitation Forecast (QPF) of 0.5 inches or more within a 24-hour period. The event begins with the 24-hour period when 0.5 inches has been forecast and continues on subsequent 24-hour periods when 0.25 inches of precipitation or more is forecast.

7.3.1 Weather Tracking

The QSP should daily consult the National Oceanographic and Atmospheric Administration (NOAA) for the Forecast Weather Table Interface. These forecasts can be obtained at http://forecast.weather.gov. Weather reports should be printed and maintained with the SWPPP in Appendix M. Record the date and time the forecast was printed.

7.3.2 Rain Gauges

The contractor shall install 1 rain gauge(s) on the project site. Locate the gauge in an open area away from obstructions such as trees or overhangs. Mount the gauge on a post at a height of 3 to 5 feet with the gauge extending several inches beyond the post. Make sure that the top of the gauge is level. Make sure the post is not in an area where rainwater can indirectly splash from sheds, equipment, trailers, etc.

The rain gauge(s) shall be read daily during normal site scheduled hours. The rain gauge should be read at approximately the same time every day and the date and time of each reading should be recorded. An example of rain gauge log sheet is provided in Appendix O. Retain rain gauge readings in Appendix N. Follow the rain gauge instructions to obtain accurate measurements.

Once the rain gauge reading has been recorded, accumulated rain shall be emptied, and the gauge reset.

7.4 Monitoring Locations

Monitoring locations are shown on the Site Maps in Appendix A. Monitoring locations are described in Sections 7.6 and 7.7.

Whenever changes in the construction site might affect the appropriateness of sampling locations, the sampling locations shall be revised accordingly. All such revisions shall be implemented as soon as feasible and the SWPPP amended. Temporary changes that result in a one-time additional sampling location do not require a SWPPP amendment.

7.5 Safety and Monitoring Exemptions

Safety practices for sample collection will be in accordance with the Contractor's Health and Safety Plan for the project.

This project is not required to collect samples or conduct visual observations (inspections) under the following conditions (see Section III.B of the 2022 CGP):

- During dangerous weather conditions such as electrical storms, flooding, and high winds above 40 miles per hour;
- Outside of scheduled site operating hours; or

When the site is not accessible to personnel. Scheduled site business hours are Monday—Friday, 7:00— 5:00PM.

If monitoring (visual monitoring or sample collection) of the site is unsafe because of the dangerous conditions noted above, then the QSP shall document the conditions for why an exception to performing the monitoring was necessary. The exemption documentation will be filed in Appendix N and must be included in the Annual Report.

7.6 Visual Monitoring

Per Section III.B.2. of Attachment D in the 2022 CGP, "For inactive projects, dischargers may reduce the visual inspection frequency and suspend sampling per Section III.G of the 2022 CGP. Dischargers shall provide an explanation with supporting information for all missed visual observations or sampling required by this Attachment, to be included in the Annual Report."

Visual monitoring includes observations and observations. Observations of BMPs are required to identify and record BMPs that need maintenance to operate effectively, that have failed, or that could fail to operate as intended. Visual observations of the site are required to observe storm water drainage areas to identify any spills, leaks, or uncontrolled pollutant sources.

Table 7-1 identifies the required frequency of visual observations and observations. Observations and observations will be conducted at the locations identified in Section 7.6.3.

Table 7-1 Summary of Visual Monitoring and Observations

Type of Inspection	Frequency
Routine Observations[1]	
BMP Observations	Weekly[2]
Qualifying Precipitation Event Triggered Observations	
Site Observations Prior to a Qualifying Precipitation Event	Within 72 hours of a qualifying precipitation event or up to 120 hours prior if supported with forecast [2]
BMP Observations During an Extended Qualifying Precipitation Event	Once every 24-hour period of a qualifying precipitation event[3]
Site Observations Following a Qualifying Precipitation Event	Within 96 hours of a qualifying precipitation event[2]

[1] Observations are required during scheduled site operating hours.

[2] Most BMPs must be inspected weekly; those identified below must be inspected more frequently.

[3] Observations are required during scheduled site operating hours on days that the forecast predicts at least 0.25 inches of precipitation once the qualifying precipitation event commences.

7.6.1 Routine Observations and Observations

Routine site observations and visual monitoring are necessary to confirm that the project is in compliance with the requirements of the 2022 CGP.

7.6.1.1 Routine BMP Observations

Observations of BMPs are conducted to identify and record:

- BMPs that are properly installed;
- BMPs that need maintenance to operate effectively;
- BMPs that have failed; or
- BMPs that could fail to operate as intended.

7.6.1.2 Non-Stormwater Discharge Observations

Each drainage area will be inspected for the presence of or indications of prior unauthorized and authorized non-stormwater discharges. Observations will record:

- Presence or evidence of any non-stormwater discharge (authorized or unauthorized);
- Identification and elimination of unauthorized non-stormwater discharges
- Pollutant characteristics (floating and suspended material, sheen, discoloration, turbidity, odor, etc.); and
- Source of discharge.

7.6.2 Qualifying Precipitation Event Triggered Observations and Observations

Visual observations of the site and observations of BMPs are required prior to a qualifying precipitation event; following a qualifying precipitation event, and every 24-hour period during a qualifying precipitation event. Pre-Qualifying Precipitation Event observations will be conducted after consulting NOAA and determining that a precipitation event with a 50 percent or greater PoP and a QPF of 0.5 inches or more precipitation within a 24-hour period has been predicted by the National Weather Service Forecast Office.

7.6.2.1 Visual Observations Prior to a Forecasted Qualifying Precipitation Event

Within 72 hours prior to a qualifying precipitation event or up to 120 hours prior if extended forecast precipitation data is available, a stormwater visual monitoring site inspection will include observations of the following locations:

- All stormwater drainage areas to identify leaks, spills, or uncontrolled pollutant sources and when necessary, implement appropriate corrective actions.
- All BMPs to identify whether they have been properly implemented per the SWPPP and implement appropriate corrective actions, as necessary.
- All stormwater storage and containment areas to detect leaks and check for available capacity to prevent overflow.

The QSP must conduct the inspection prior to the qualifying precipitation event. Consistent with the requirements for a qualifying precipitation event, pre-rain BMP observations and visual monitoring will be triggered by a NOAA forecast that indicates a 50 percent or greater probability of 0.5 inches of precipitation or more in a 24-hour period in the project area.

7.6.2.2 BMP Observations During a Qualifying Precipitation Event

During an extended qualifying precipitation event BMP observation will be conducted at least once every 24 hours. Qualifying precipitation events are extended for each subsequent 24-hour period forecast to have at least 0.25 inches of precipitation. The BMP observations are to identify and record:

- If BMPs were adequately designed, implemented and effective.
- BMPs that require repair or replacement due to damage.
- Additional BMPs that need to be implemented and revise the SWPPP accordingly.

If the construction site is not accessible during the rain event, visual observations shall be performed at all relevant outfalls, discharge points, downstream locations. The observations should record any projected maintenance activities.

7.6.2.3 Visual Observations Following a Qualifying Precipitation Event

Within 96 hours following the end of a qualifying precipitation event a stormwater visual monitoring site inspection is required to observe:

- If BMPs were adequately designed, implemented and effective.
- BMPs that require repair or replacement due to damage.
- Additional BMPs that need to be implemented and revise the SWPPP accordingly.

7.6.3 Visual Monitoring Procedures

Visual monitoring shall be conducted by the QSP or QSP Delegates.

The name(s) and contact number(s) of the QSPs or QSP Delegates assigned to conduct visual observations are listed below and their training qualifications are provided in Appendix J.

Assigned QSP: Andrea Pedraza Contact phone: 559-733-0440

Assigned QSP Delegate: Joe Mello Contact phone: 559-733-0440

Stormwater observations shall be documented on the *Visual Inspection Field Log Sheet* (see Appendix O). BMP observations shall be documented on the site-specific BMP inspection checklist and include photographs of areas of concern along with the QSP's description of the problem.

The QSP shall, within 3 days of the inspection, submit copies of the completed inspection report to Rob Leal and Billy Shearer.

The completed reports will be kept in Appendix N. Results of visual monitoring must be summarized and reported in the Annual Report.

7.6.4 Visual Monitoring Follow-Up and Reporting

Maintenance, repairs, and correction of deficiencies, including design changes to BMPs, identified by the observations or observations, including required repairs or maintenance of BMPs, shall be initiated within 72 hours of identification and completed as soon as possible, prior to the next forecasted precipitation event.

When design changes to BMPs are required, the SWPPP should be amended to reflect the changes.

Deficiencies identified in site inspection reports and correction of deficiencies will be tracked on the *Inspection Field Log Sheet* or *BMP Inspection Report* shall be kept in Appendix N. QSP Delegates shall report issues identified during observations that require corrective action to the QSP within 24 hours of the observation.

The QSP shall, within 3 days of the inspection, submit copies of the completed *Inspection Field Log Sheet* or *BMP Inspection Report* with the corrective actions to Rob Leal and Billy Shearer.

Results of visual monitoring must be summarized and reported in the Annual Report.

7.6.5 Visual Monitoring Locations

The observations and observations identified in Sections 7.6.1 and 7.6.2 will be conducted at the locations identified in this section.

BMP locations are shown on the Site Maps in Appendix A.

There are 0 stormwater storage or containment area(s) on the project site from which stormwater will be dewatered. Stormwater storage or containment area(s) are shown on the Site Maps in Appendix A and Table 7-3 identifies each stormwater storage or containment area by location.

7.7 Water Quality Sampling and Analysis

7.7.1 Sampling and Analysis Plan for Non-Visible Pollutants in Stormwater Runoff Discharges

This Sampling and Analysis Plan for Non-Visible Pollutants describes the sampling and analysis strategy and schedule for monitoring non-visible pollutants in stormwater runoff discharges from the project site.

Sampling for non-visible pollutants, including those associated with TMDLs will be conducted when (1) a breach, leakage, malfunction, or spill is observed; and (2) the leak or spill has not been cleaned up prior to the rain event; and (3) there is the potential for discharge of non-visible pollutants to surface waters or drainage system.

Table 7-4 summarizes the potential non-visible pollutants identified in the pollutant source assessment Sections 2.6 and 2.7 and the water quality constituent or indicator for that pollutant. Drainage areas where the source is present are shown on the Site Maps in Appendix A.

Table 7-5 Potential Non-Visible Pollutants and Water Quality Indicator Constituents Based on the Pollutant Source Assessment

Pollutant	Water Quality Indicator or Constituent	Source/Reason from Pollutant Source Assessment	TMDL Pollutant	Site Drainage Area
N/A		[Construction Material or Waste]	[Yes] [No]	
		[Construction/Contractor Activity]	[Yes] [No]	
		[Existing Site Feature]	[Yes] [No]	
		[Soil Amendment]	[Yes] [No]	

7.7.1.1 Sampling Schedule

Samples for the potential non-visible pollutant(s) and a sufficiently large unaffected background sample shall be collected during the first eight hours of discharge from rain events that result in a sufficient discharge for sample collection. Samples shall be collected during the site's scheduled hours and shall be collected regardless of the time of year and phase of the construction.

Collection of discharge samples for non-visible pollutant monitoring will be triggered only when any of the following conditions are observed during site observations conducted prior to or during a rain event.

- Materials or waste containing potential non-visible pollutants are not stored under watertight conditions. Watertight conditions are defined as (1) storage in a watertight container, (2) storage under a watertight roof or within a building, or (3) protected by temporary cover and containment that prevents stormwater contact and runoff from the storage area.
- Materials or wastes containing potential non-visible pollutants are stored under watertight conditions, but (1) a breach, malfunction, leakage, or spill is observed, (2) the leak or spill is not cleaned up prior to the rain event, and (3) there is the potential for discharge of non-visible pollutants to surface waters or a storm drain system.
- A construction activity, including but not limited to those in Section 2.6, with the potential to contribute non-visible pollutants (1) was occurring during or within 24 hours prior to the rain event, (2) BMPs were observed to be breached, malfunctioning, or improperly implemented, and (3) there is the potential for discharge of non-visible pollutants to surface waters or a storm drain system.
- Soil amendments that have the potential to change the chemical properties, engineering properties, or erosion resistance of the soil have been applied, and there is the potential for discharge of non-visible pollutants to surface waters or a storm drain system.
- Stormwater runoff from an area contaminated by historical usage of the site has been observed to combine with stormwater runoff from the site, and there is the potential for discharge of non-visible pollutants to surface waters or a storm drain system.

7.7.1.2 Sampling Locations

Sampling locations are based on proximity to planned non-visible pollutant storage, occurrence or use, accessibility for sampling, and personnel safety. Planned non-visible pollutant sampling locations are shown on the Site Maps in Appendix A and include the locations identified in Table 7-6.

0 sampling location(s) has been identified for the collection of an uncontaminated sample of runoff as a background sample for comparison with the samples being analyzed for non-visible pollutants. This location(s) was selected such that the sample will not have come in contact with the operations, activities, or areas identified in Section 7.7.1 or with disturbed soils areas.

0 sampling locations have been identified for the collection of samples of run-on to the project site. Run-on from these locations has the potential to combine with discharges from the site being sampled for non-visible pollutants. These samples are intended to identify potential sources of non-visible pollutants that originate off the project site.

Table 7-6 Non-Visible Pollutant Sample Locations

Sample Location Identifier	**Sample Location Description**	**Sample Location Latitude and Longitude** (Decimal Degrees)	**Runoff or Run-on**

If a stormwater visual monitoring site inspection conducted prior to or during a storm event identifies the presence of a material storage, waste storage, operations area with spills, or the potential for the discharge of non-visible pollutants to surface waters or a storm drain system that is at a location not listed above and has not been identified on the Site Maps, sampling

locations will be selected by the QSP using the same rationale as that used to identify planned locations. Non-visible pollutant sampling locations shall be documented by the QSP on the pre-rain event inspection form prior to a forecasted qualifying precipitation event and the *Effluent Sampling Field Log Sheet*, which are provided in Appendix O.

7.7.1.3 Monitoring Preparation

Non-visible pollutant samples will be collected by:

QSP	☒ Yes	☐ No
QSP Delegate	☐ Yes	☒ No

An adequate stock of monitoring supplies and equipment for monitoring non-visible pollutants will be available on the project site prior to a sampling event. Monitoring supplies and equipment will be stored in a cool temperature environment that will not come into contact with rain or direct sunlight. The QSP or QSP Delegates responsible for sampling will be available to collect samples in accordance with the sampling schedule. Supplies maintained at the project site will include, but are not limited to, clean powder-free nitrile gloves, sample collection equipment, coolers, appropriate number and volume of sample bottles, identification labels, re-sealable storage bags, paper towels, personal rain gear, ice, and *Effluent Sampling Field Log Sheets* and Chain of Custody (CoC) forms, which are provided in Appendix O.

7.7.1.4 Analytical Constituents

Table 7-7 lists the specific sources and types of potential non-visible pollutants based on the project pollutant source assessment and the water quality indicator constituent(s) for that pollutant. Table 7-7 provides specific analytical methods and reporting limits for the potential non-visible pollutants. Analytical methods were selected in compliance with U.S. EPA sufficiently sensitive method requirements in 40 Code of Federal Regulations Part 136, as evidenced by the method detection limit and minimum level.

7.7.1.5 Sample Collection

Samples of discharge shall be collected at the designated non-visible pollutant sampling locations identified in Table 7-6 and shown on the Site Maps in Appendix A or in the locations determined by observed breaches, malfunctions, leakages, spills, operational areas, soil amendment application areas, and historical site usage areas that triggered the sampling event.

Grab samples shall be collected and preserved in accordance with the methods identified in the Table 7-7, "Sample Collection, Preservation and Analysis for Monitoring Non-Visible Pollutants" provided in Section 7.7.1.6. Only the QSP, or QSP Delegates trained on sample collection identified in Section 7.7.1.3 shall collect samples.

Sample collection and handling requirements are described in Section 7.7.7.

Table 7-7 Sample Collection, Preservation and Analysis for Monitoring Non-Visible Pollutants

Constituent	Analytical Method	Minimum Sample Volume	Sample Containers	Sample Preservation	Minimum Level	Method Detection Limit	Maximum Holding Time
Notes: Analytical laboratories may use the term Reporting Level in lieu of Minimum Level							

7.7.1.6 Sample Analysis

Samples shall be analyzed using the analytical methods identified in the Table 7-7.

Samples will be analyzed by:

Laboratory Name:

Street Address:

City, State Zip:

Telephone Number:

Point of Contact:

ELAP Certification Number:

Samples will be delivered to the laboratory by:

Driven by QSP/QSP Delegate/Contractor	☒	Yes	☐	No
Picked up by Laboratory Courier	☐	Yes	☐	No
Shipped	☐	Yes	☐	No

7.7.1.7 Data Evaluation and Reporting

The QSP shall complete an evaluation of the water quality sample analytical results based on a comparison of the results to the unaffected sample [and to the TMDL NALs or NELs].

Runoff/downgradient results shall be compared with the associated upgradient/unaffected results and any associated run-on results. Should the runoff/downgradient sample show an increased level of the tested analyte relative to the unaffected background sample, which cannot be explained by run-on results, the BMPs, site conditions, and surrounding influences shall be assessed to determine the probable cause for the increase.

As determined by the site and data evaluation, appropriate BMPs shall be repaired or modified to mitigate discharges of non-visible pollutant concentrations. Any revisions to the BMPs shall be recorded as an amendment to the SWPPP.

Analytical results of non-visible pollutant monitoring shall be submitted to SMARTS within 30 days of obtaining the analytical results

The 2022 CGP prohibits storm water discharges that contain hazardous substances equal to or in excess of reportable quantities established in 40 C.F.R. §§ 117.3 and 302.4. The results of any non-stormwater discharge results that indicate the presence of a hazardous substance in excess of established reportable quantities shall be immediately reported to the Regional Water Board and other agencies as required by 40 C.F.R. §§ 117.3 and 302.4.

7.7.2 Sampling and Analysis Plan for pH and Turbidity in Stormwater Runoff Discharges

Sampling and analysis of runoff for pH and turbidity is not required for Risk Level 1 projects.

7.7.2.4 Field Parameters

Samples shall be analyzed for the constituents indicated in Table 7-11.

Table 7-11 Sample Collection and Analysis for Monitoring Turbidity and pH

Parameter	Test Method	Minimum Sample Volume [1]	Sample Collection Container Type	Detection Limit (minimum)
Turbidity	Field meter/probe with calibrated portable instrument	500 mL	Polypropylene or glass (Do not collect in meter sample cells)	1 NTU
pH	Field meter/probe with calibrated portable instrument or calibrated pH test kit	100 mL	Polypropylene	0.2 pH units

Notes: [1] Minimum sample volume recommended. Specific volume requirements will vary by instrument, check instrument manufacturer instructions.

L – Liter
mL – Milliliter
NTU – Nephelometric Turbidity Unit

7.7.2.5 Sample Collection

Samples of discharge shall be collected at the designated runoff and run-on sampling locations listed in Tables 7-9 and 7-10 shown on the Site Maps in Appendix A. Run-on samples shall be collected within close proximity of the point of run-on to the project.

Sample collection and handling requirements are described in Section 7.7.7.

7.7.2.6 Field Measurements

The collection and analysis of samples for field analysis, collection, analysis and the calibration of equipment shall be in accordance with the field instrument manufacturer's specifications.

Immediately following collection, samples for field analysis shall be tested in accordance with the field instrument manufacturer's instructions and results recorded on the *Effluent Sampling Field Log Sheet*.

The field instrument(s) listed in Table 7-12 will be used to analyze the following constituents:

Table 7-12 Field Instruments

Field Instrument (Manufacturer and Model)	Constituent
Splashproof Portable pH/mV Measurement Kit	pH
Oakton Turbidity Meter	Turbidity

The manufacturers' instructions are included in Appendix P. Field sampling staff shall review the instructions prior to each sampling event and follow the instructions in completing measurement of the samples.

- The instrument(s) shall be maintained in accordance with manufacturer's instructions.
- The instrument(s) shall be calibrated before each sampling and analysis event.
- Maintenance and calibration records shall be maintained with the SWPPP.

The QSP may authorize alternate equipment provided that the equipment meets the 2022 CGP's requirements and the manufacturers' instructions for calibration and use are added to Appendix P.

7.7.2.7 Data Evaluation and Reporting

7.7.3 Sampling and Analysis Plan for pH and Turbidity in Receiving Water

This project is not subject to Receiving Water Monitoring.

7.7.4 Sampling and Analysis Plan for Dewatering Discharges

☒ No dewatering activities are planned for this project.

7.7.5 Sampling and Analysis Plan for Other Pollutants Required by the Regional Water Board

The Regional Water Board has not specified monitoring for additional pollutants.

7.7.6 Training of Sampling Personnel

QSP Delegates assigned to conduct sampling shall be trained by the QSP to collect, maintain, and ship samples in accordance with the 2022 CGP Sample Collection and Handling Instructions and supplemental information as needed. Training records of QSP Delegates assigned to sample are provided in Appendix I.

The QSP and QSP Delegates have received the following stormwater sampling training:

Name	Training

The QSP and QSP Delegates have the following stormwater sampling experience:

Name	Experience

7.7.7 Sample Collection and Handling

7.7.7.1 Sample Collection

Samples shall be collected at the designated sampling locations shown on the Site Maps and listed in the preceding sections. Samples shall be collected, maintained and shipped in accordance with the 2022 CGP Sample Collection and Handling Instructions.

Grab samples shall be collected and preserved in accordance with the methods identified in preceding sections.

To maintain sample integrity and prevent cross-contamination, sample collection personnel shall follow the protocols below.

- Collect samples (for laboratory analysis) in analytical laboratory-provided or specified sample containers;
    - Use of any other type of containers could cause sample contamination and may result in NAL or NEL exceedances.
- Wear clean, powder-free nitrile gloves when collecting samples;
- Change gloves whenever something not known to be clean has been touched;
- Change gloves between sampling locations;
- Decontaminate all equipment (e.g., bucket, tubing) prior to sample collection;
    - using a trisodium phosphate water wash, distilled water rinse, and final rinse with distilled water..
    - Dispose of wash and rinse water appropriately (i.e., do not discharge to storm drain or receiving water).
    - Do not decontaminate laboratory provided sample containers;
- Do not smoke during sampling events;
- Never sample near a running vehicle;
- Do not park vehicles in the immediate sample collection area (even non-running vehicles);
- Do not eat or drink during sample collection; and
- Do not breathe, sneeze, or cough in the direction of an open sample container.

The most important aspect of grab sampling is to collect a sample that represents the entire runoff stream. Typically, samples are collected by dipping the collection container in the runoff flow paths and streams as noted below.

i. For small streams and flow paths, simply dip the bottle facing upstream until full.
ii. For larger stream that can be safely accessed, collect a sample in the middle of the flow stream by directly dipping the mouth of the bottle. Once again making sure that the opening of the bottle is facing upstream as to avoid any contamination by the sampler.
iii. For larger streams that cannot be safely waded, pole-samplers may be needed to safely access the representative flow.
iv. Avoid collecting samples from ponded, sluggish or stagnant water.
v. Avoid collecting samples directly downstream from a bridge as the samples can be affected by the bridge structure or runoff from the road surface.

Note, that depending upon the specific analytical test, some containers may contain preservatives. These containers should **never** be dipped into the stream but filled indirectly from the collection container.

7.7.7.2 Sample Handling

Turbidity and pH measurements must be conducted immediately. Do not store turbidity or pH samples for later measurement.

Samples for laboratory analysis must be handled as follows. Immediately following sample collection:

- Cap sample containers;
- Complete sample container labels;
- Place sealed containers in a re-sealable storage bag;
- Place sample containers into an ice-chilled cooler;

- Document sample information on the *Effluent Sampling Field Log Sheet* (Appendix O); and
- Complete the CoC.

All samples for laboratory analysis must be maintained between 0-6 degrees Celsius during delivery to the laboratory. Samples must be kept on ice, or refrigerated, from sample collection through delivery to the laboratory. Place samples to be shipped inside coolers with ice. Make sure the sample bottles are well packaged to prevent breakage and secure cooler lids with packaging tape.

Ship samples that will be laboratory analyzed to the analytical laboratory right away. Hold times are measured from the time the sample is collected to the time the sample is analyzed. The 2022 CGP requires that samples be received by the analytical laboratory within 48 hours of the physical sampling (unless required sooner by the analytical laboratory to meet all hold times).

Laboratory Name:

Address:

City, State Zip:

Telephone Number:

Point of Contact:

7.7.7.3 Sample Documentation Procedures

All original data documented on sample container identification labels, *Effluent Sampling Field Log Sheet* (Appendix O), and CoCs shall be recorded using waterproof ink. These accountable documents shall be considered. If an error is made on an accountable document, the individual shall make corrections by lining through the error and entering the correct information. The erroneous information shall not be obliterated. All corrections shall be initial and dated.

Duplicate samples shall be identified consistently with the numbering system for other samples to prevent the laboratory from identifying duplicate samples. Duplicate samples shall be identified in the Effluent Sampling Field Log Sheet.

Sample documentation procedures include the following:

Sample Bottle Identification Labels: Sampling personnel shall attach an identification label to each sample bottle. Sample identification shall uniquely identify each sample location. (These location identifiers should be listed in the tables in the SWPPP.)

Field Log Sheets: Sampling personnel shall complete the *Effluent Sampling Field Log Sheet* and *Receiving Water Sampling Field Log Sheet* (Appendix O) for each sampling event, as appropriate.

Chain of Custody: Sampling personnel shall complete the CoC for each sampling event for which samples are collected for laboratory analysis. The sampler will sign the CoC (Appendix O) when the sample(s) is turned over to the testing laboratory or courier.

7.8 Active Treatment System Monitoring

Will an Active Treatment System (ATS) be deployed on the site?

☐ Yes ☒ No

This project does not require a project specific Sampling and Analysis Plan for an ATS because deployment of an ATS is not planned.

7.9 Passive Treatment Monitoring

Will passive treatment technologies be deployed on the site?

☐ Yes ☒ No

This project does not require a project specific Sampling and Analysis Plan for passive treatment because deployment of passive treatment is not planned.

7.10 Watershed Monitoring Option

This project is not participating in a watershed monitoring option.

7.11 Quality Assurance and Quality Control

An effective Quality Assurance and Quality Control (QA/QC) plan shall be implemented as part of the CSMP to ensure that analytical data can be used with confidence. QA/QC procedures to be initiated include the following:

- Field logs;
- Clean sampling techniques;
- CoCs;
- QA/QC Samples; and
- Data verification.

Each of these procedures is discussed in more detail in the following sections.

7.11.1 Field Logs

The purpose of field logs is to record sampling information and field observations during monitoring that may explain any uncharacteristic analytical results. Sampling information to be included in the field log includes the date and time of water quality sample collection, sampling personnel, sample container identification numbers, and types of samples that were collected. Field observations should be noted in the field log for any abnormalities at the sampling location (color, odor, BMPs, etc.). Field measurements for pH and turbidity should also be recorded in the field log. A Visual Inspection Field Log, an Effluent Sampling Field Log Sheet, [and a Receiving Water Sampling Field Log Sheet] are included in Appendix O.

7.11.2 Clean Sampling Techniques

Clean sampling techniques involve the use of certified clean containers for sample collection and clean powder-free nitrile gloves during sample collection and handling. As discussed in Section 7.7.7, adoption of a clean sampling approach will minimize the chance of field contamination and questionable data results.

7.11.3 Chain of Custody

The sample CoC is an important documentation step that tracks samples from collection through analysis to ensure the validity of the sample. Sample CoC procedures include the following:

- Proper labeling of samples;
- Use of CoC forms for all samples; and
- Prompt sample delivery to the analytical laboratory.

Analytical laboratories usually provide CoC forms to be filled out for sample containers. An example CoC is included in Appendix O.

7.11.4 QA/QC Samples

QA/QC samples provide an indication of the accuracy and precision of the sample collection; sample handling; field measurements; and analytical laboratory methods. The following types of QA/QC will be conducted for this project:

☐ Field Duplicates at a frequency of 5 percent or 1 duplicate minimum per sampling event (Required for all sampling plans with field measurements or laboratory analysis)

7.11.4.1 Field Duplicates

Field duplicates provide verification of laboratory or field analysis and sample collection. Duplicate samples shall be collected, handled, and analyzed using the same protocols as primary samples. The sample location where field duplicates are collected shall be randomly selected from the discharge locations. Duplicate samples shall be collected immediately after the primary sample has been collected. Duplicate samples must be collected in the same manner and as close in time as possible to the original sample. Duplicate samples shall not influence any evaluations or conclusions.

7.11.4.2 Equipment Blanks

Equipment blanks provide verification that equipment has not introduced a pollutant into the sample. Equipment blanks are typically collected when:

- New equipment is used;
- Equipment that has been cleaned after use at a contaminated site;
- Equipment that is not dedicated for surface water sampling is used; or
- Whenever a new lot of filters is used when sampling metals.

7.11.4.3 Field Blanks

Field blanks assess potential sample contamination levels that occur during field sampling activities. De-ionized water field blanks are taken to the field, transferred to the appropriate container, and treated the same as the corresponding sample type during the course of a sampling event.

7.11.4.4 Travel Blanks

Travel blanks assess the potential for cross-contamination of volatile constituents between sample containers during shipment from the field to the laboratory. De-ionized water blanks are taken along for the trip and held unopened in the same cooler with the VOC samples.

7.11.5 Data Verification

After results are received from the analytical laboratory, the QSP or QSP Delegates shall verify the data to ensure that it is complete, accurate, and the appropriate QA/QC requirements were met. Data must be verified as soon as the data reports are received. Data verification shall include:

- Check the CoC and laboratory reports.
  Make sure all requested analyses were performed and all samples are accounted for in the reports.

- Check laboratory reports to make sure hold times were met and that the reporting levels meet or are lower than the reporting levels agreed to in the contract.
- Check data for outlier values and follow up with the laboratory.
  Occasionally typographical errors, unit reporting errors, or incomplete results are reported and should be easily detected. These errors need to be identified, clarified, and corrected quickly by the laboratory. The QSP or QSP Delegates should especially note data that is an order of magnitude or more different than similar locations or is inconsistent with previous data from the same location.
- Check laboratory QA/QC results.
  EPA establishes QA/QC checks and acceptable criteria for laboratory analyses. These data are typically reported along with the sample results. The QSP or QSP Delegates shall evaluate the reported QA/QC data to check for contamination (method, field, and equipment blanks), precision (laboratory matrix spike duplicates), and accuracy (matrix spikes and laboratory control samples). When QA/QC checks are outside acceptable ranges, the laboratory must flag the data and usually provides an explanation of the potential impact to the sample results.
- Check the data set for outlier values and, accordingly, confirm results and re-analyze samples where appropriate.
  Sample reanalysis should only be undertaken when it appears that some part of the QA/QC resulted in a value out of the accepted range. Sample results may not be discounted unless the analytical laboratory identifies the required QA/QC criteria were not met and confirms this in writing.

Field data including observations and observations must be verified as soon as the field logs are received, typically at the end of the sampling event. Field data verification shall include:

- Check field logs to make sure all required measurements were completed and appropriately documented;
- Check reported values that appear out of the typical range or inconsistent; Follow-up immediately to identify potential reporting or equipment problems, if appropriate, recalibrate equipment after sampling;
- Verify equipment calibrations;
- Review observations noted on the field logs; and
- Review notations of any errors and actions taken to correct the equipment or recording errors.

7.12 Records Retention

All records of stormwater monitoring information and copies of reports (including Annual Reports) must be retained for a period of at least three years from date of submittal or longer if required by the Regional Water Board.

Results of visual monitoring, field measurements, and laboratory analyses must be kept in the SWPPP along with CoCs, and other documentation related to the monitoring.

Records are to be kept onsite while construction is ongoing. Records to be retained include:

- The date, place, and time of observations, sampling, visual observations, and/or measurements, including precipitation;
- The individual(s) who performed the observations, sampling, visual observation, and/or field measurements;
- The date and approximate time of field measurements and laboratory analyses;
- The individual(s) who performed the laboratory analyses;

- A summary of all analytical results, the method detection limits and reporting limits, and the analytical techniques or methods used;
- Rain gauge readings from site observations;
- QA/QC records and results;
- Calibration records;
- Visual observation and sample collection exception records;
- The records of any corrective actions and follow-up activities that resulted from analytical results, visual observations, or observations;

Section 8 References

1. Project Plans and Specifications No. 250125, prepared by QK.
2. SWRCB (State Water Resources Control Board). (2022). Order 2022-0057-DWQ, NPDES General Permit No. CAS000002: Stormwater Discharges Associated with Construction and Land Disturbing Activities. Available online at: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction/general_permit_reissuance.html.
3. CASQA 2023. *Stormwater BMP Handbook: Construction*. Available online at: www.casqa.org
4. Geotechnical Engineering Investigation, dated May 10, 2021, prepared by Salem Engineering Group, Inc. (Report Project No. 1-220-0695).

Appendix A: Site Maps and Drawings

Sanger Unified School District

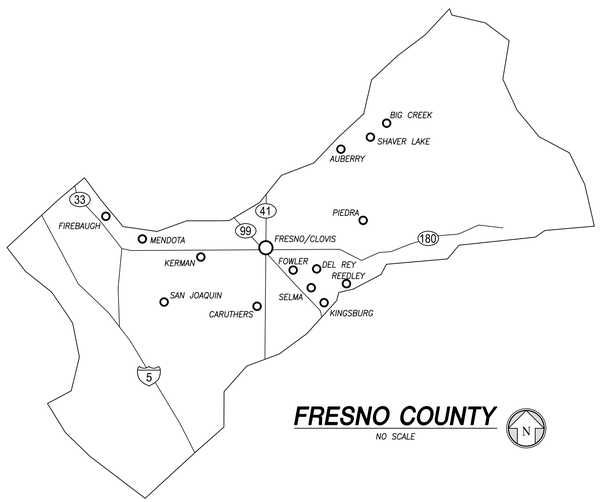
County of Fresno — State of California

TEMPERANCE ELEMENTARY SCHOOL
STORM WATER POLLUTION PREVENTION PLAN



STATE MAP
NO SCALE

AREA MAP
NO SCALE



FRESNO COUNTY
NO SCALE

SHEET INDEX

1 – COVER SHEET
2 – NOTES AND LEGEND
3 – PRE-CONSTRUCTION BMPs
4 – PRE-CONSTRUCTION BMPs
5 – PRE-CONSTRUCTION BMPs
6 – PRE-CONSTRUCTION BMPs
7 – PRE-CONSTRUCTION BMPs
8 – PRE-CONSTRUCTION BMPs
9 – CONSTRUCTION BMPs
10 – CONSTRUCTION BMPs
11 – CONSTRUCTION BMPs
12 – CONSTRUCTION BMPs
13 – CONSTRUCTION BMPs
14 – CONSTRUCTION BMPs
15 – CONSTRUCTION BMPs

REVISIONS

ID	DATE	BY	DESCRIPTION

DATE _____ MONIQUE MELLO QUALIFIED SWPPP DEVELOPER CERT. No. 22554

QK
(559) 733-0440
WWW.QKINC.COM
BAKERSFIELD, CLOVIS, HANFORD, MERCED, PORTERVILLE,
VISALIA AND SACRAMENTO, CA ~ KANSAS CITY, MO

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SANGER UNIFIED SCHOOL DISTRICT
1905 SEVENTH ST.
SANGER, CA. 93657
(559) 524-6521

TEMPERANCE ELEMENTARY SCHOOL
COVER SHEET
STORMWATER POLLUTION PREVENTION PLAN

PROJECT NO.:	250125
DRAWN BY:	SV
QA/QC BY:	AP
SCALE:	AS SHOWN
SHEET NO.:	1 OF 15

PROGRESS SET - NOT FOR CONSTRUCTION

L:\PROJECTS\2025\250125\ENGINEERING\EEC\SWPPP\ACAD\250125-SWPPP-CV.DWG 6/25/2026 4:56 PM

SITE SPECIFIC SWPPP NOTES:

THIS SITE HAS BEEN CALCULATED AS A RISK LEVEL 1 DISCHARGER AND SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF THE PROJECT SWPPP AND AS SPECIFIED IN ATTACHMENT C OF THE GENERAL PERMIT.
THIS PROJECT DOES NOT REQUIRE A RAIN EVENT ACTION PLAN (REAP).

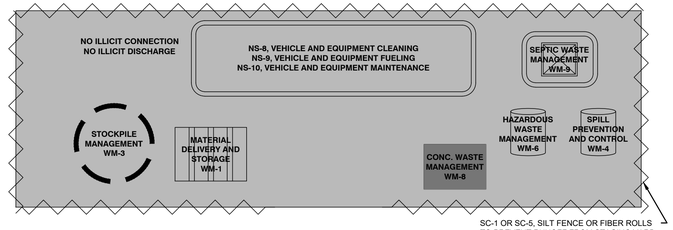
1. CONSTRUCT WORK EQUIPMENT STORAGE AREAS AS NEEDED FOR CONSTRUCTION PER THE CALIFORNIA BMP HANDBOOK.
2. SE-10: PROVIDE STANDARD STORM DRAIN INLET PROTECTION PER BMP STANDARD IN THE CALIFORNIA BMP HANDBOOK. PROVIDE INLET PROTECTION FOR EXISTING INLETS AT START OF CONSTRUCTION. AS PROPOSED INLETS ARE CONSTRUCTED INLET PROTECTION SHALL BE INSTALLED.
3. TC-1: THE STABILIZED CONSTRUCTION ENTRANCE IS DESIGNED TO REDUCE SOIL TRACK OFF INTO THE STREET. LOCATION AT CONTRACTOR'S DISCRETION. ONCE THE INTERIOR ROADS AND PARKING LOTS ARE COMPLETE, IT MAY BE POSSIBLE TO REPLACE THE CONSTRUCTION ENTRANCES WITH REGULAR STREET SWEEPING AT CONTRACTOR'S DISCRETION.
4. SE-7: STREET SWEEPING. KEEP TRAVELED ROADWAYS CLEAR OF SEDIMENT AND SOIL ACCUMULATION DURING CONSTRUCTION.
5. SAMPLING LOCATIONS SHALL BE AT MINIMUM LOCATED UPSTREAM (CONTROL SAMPLE) AND DOWNSTREAM OF CONSTRUCTION ACTIVITIES. SAMPLING IS ON AN AS NEEDED BASIS PER THE SWPPP AND CONSTRUCTION GENERAL PERMIT.
6. NEAREST WATER SOURCE. APPROXIMATE LOCATION OF NEARBY EXISTING FIRE HYDRANTS TO THE PROJECT SITE AND PROPOSED WATER SOURCE LOCATIONS AS SHOWN.
7. PERIMETER CONTROL BMP:
SILT FENCE (SE-1). FIBER ROLLS (SE-5) OR OTHER APPROPRIATE MEASURE. ADDITIONALLY, PRESERVATION OF EXISTING VEGETATION (EC-2) SHALL BE MAINTAINED WHEREVER POSSIBLE.

SWPPP BMP LEGEND

EC-1	SCHEDULING
EC-2	PRESERVATION OF EXISTING VEGETATION
SE-1	SILT FENCE
SE-5	FIBER ROLLS (STRAW WATTLE)
SE-6	GRAVEL BAG BERM
SE-7	STREET SWEEPING AND VACUUMING
SE-10	PROTECTED DRAINAGE INLET FROM SEDIMENT INFILTRATION
TC-1	STABILIZED CONSTRUCTION ENTRANCE
WE-1	WIND EROSION CONTROL
NS-1	WATER CONSERVATION PRACTICES
NS-3	PAVING AND GRADING OPERATIONS
NS-6	ILLICIT CONNECTION/DISCHARGE
NS-8	VEHICLE AND EQUIPMENT CLEANING
NS-9	VEHICLE AND EQUIPMENT FUELING
NS-10	VEHICLE AND EQUIPMENT MAINTENANCE
NS-12	CONCRETE CURING
NS-13	CONCRETE FINISHING
WM-1	MATERIAL DELIVERY AND STORAGE
WM-2	MATERIAL USE
WM-3	STOCK PIPE MANAGEMENT
WM-4	SPILL PREVENTION AND CONTROL
WM-5	SOLID WASTE MANAGEMENT
WM-6	HAZARDOUS WASTE MANAGEMENT
WM-7	CONTAMINATED SOIL MANAGEMENT
WM-8	CONCRETE WASTE MANAGEMENT
WM-9	SANITARY/SEPTIC WASTE MANAGEMENT
WM-10	LIQUID WASTE MANAGEMENT
	EXISTING DRAINAGE
	PROPOSED DRAINAGE
	LIMIT OF CONSTRUCTION

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

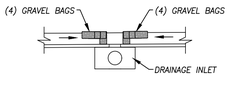
1. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN GRANTED BY GOVERNING AUTHORITIES.
2. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) DURING CONSTRUCTION OPERATIONS. IF FIELD CONDITIONS WARRANT IT, THE SWPPP MAY BE MODIFIED AS LONG AS THE CONSTRUCTION GENERAL PERMIT CONDITIONS ARE MET. ANY ALTERATIONS TO THE SWPPP MUST BE NOTED IN THE SWPPP BINDER KEPT ON SITE.
3. THE OWNER, CONTRACTOR AND SUB-CONTRACTORS (BUT NOT LIMITED TO) ARE RESPONSIBLE FOR SWPPP IMPLEMENTATION AND VIOLATIONS. THEY SHOULD BE TRAINED AS NEEDED BY THE QSP (QUALIFIED SWPPP PRACTITIONER) OR HIS/HER DESIGNATED REPRESENTATIVE.
4. NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED.
5. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE AND BE IN COMPLIANCE WITH THE CONSTRUCTION GENERAL PERMIT.
6. GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
7. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY QSP AND APPROVED BY QSD.
8. DRAIN INLET PROTECTION SHALL BE PROVIDED THROUGHOUT THE DURATION OF THE PROJECT. EXISTING DRAIN INLETS SHALL BE PROTECTED UNTIL FINAL REMOVAL AND THE CONNECTING PIPE SHALL BE PROPERLY CAPPED TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM.
9. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION ON ANY EXPOSED AREAS UNTIL THE PROJECT IS COMPLETE.
10. REFER TO THE SWPPP PLAN (THE BMP BINDER OF DOCUMENTS) FOR DETAILS ON BMPS (BEST MANAGEMENT PRACTICES) USED FOR THE SITE. THE BINDER SHALL BE KEPT ON THE SITE AT ALL TIMES AND BE MADE AVAILABLE FOR THE QSP AND OTHERS INSPECTING THE SITE. A DIGITAL COPY CAN BE FOUND AT HTTPS://SMARTS.WATERBOARDS.CA.GOV/SMARTS
11. ALL MATERIALS FOR THE PROJECT, INCLUDING THE NATIVE SOIL (SEDIMENT) ARE CONSIDERED POLLUTANTS. THE POLLUTANTS SHALL NOT LEAVE THE SITE VIA DRAINAGE, WHEEL TRACKING AND/OR WIND. ALL MATERIALS INCLUDING WASTE ARE TO LEAVE THE SITE IN ADEQUATELY COVERED CONTAINERS.
12. ALL SITE SWPPP CHANGES ARE TO BE COORDINATED WITH THE QSP. THE PRACTITIONER WILL PROVIDE WEEKLY INSPECTIONS AND AT LEAST ONE FOR EACH 24-HR PERIOD DURING QUALIFYING STORM EVENTS TO CHECK MAINTENANCE AND REPAIRS. ALL REPAIRS AND MAINTENANCE FOR BMP'S ARE TO BE DONE AS SOON AS POSSIBLE.
13. ALL WASTE AND STORAGE CONTAINERS SHALL BE KEPT COVERED AT ALL TIMES TO PREVENT LEACHING OF WASTE AND MATERIALS FROM ESCAPING THEIR CONTAINER AND ONTO THE SITE. HAZARDOUS WASTE (PAINTS, STAINS, GLUES, ADHESIVES, ETC.) SHALL BE STORED IN COVERED AREAS WITH SECONDARY CONTAINMENT FOR LIQUID MATERIALS IN CASE OF ACCIDENTAL LEAKAGE/SPILLAGE.
14. THE BEST PLAN FOR PROTECTING WATER QUALITY IS TO MINIMIZE DISTURBANCE AND PERFORM GRADING OPERATIONS DURING DRY WEATHER. GOOD SITE MANAGEMENT HELPS PREVENT POLLUTION IN STORM DRAINS, RIVERS, STREAMS AND LAKES.
15. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE FOLLOWING "GOOD HOUSEKEEPING" MEASURES: COVERING LOOSE MATERIAL (STOCKPILES, ETC.) WHEN NOT IN USE; STORING CHEMICALS IN WATER TIGHT CONTAINERS; IMPLEMENTING BEST MANAGEMENT PRACTICES TO PREVENT OFF-SITE TRACKING (E.G., STREET SWEEPING AND CONSTRUCTION ENTRANCE); IMPLEMENTING PROCEDURES THAT EFFECTIVELY ADDRESS HAZARDOUS MATERIALS, INCLUDING A SPILL RESPONSE KIT; PREVENTING OIL, GREASE AND FUEL LEAKS BY MAINTAINING AND STORING VEHICLES AND EQUIPMENT AT APPROPRIATE OFF-SITE LOCATIONS; CONTROLLING FUGITIVE DUST EMISSIONS; PREVENTING ILLICIT DISCHARGES INTO THE STORM DRAIN SYSTEM; AND PREVENTING THE ACCUMULATION AND INFILTRATION OF SEDIMENT AT OR NEAR EXISTING STORM DRAIN SYSTEMS AND WATERWAYS.
16. ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED AT REGULAR INTERVALS, WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT, AND PRIOR TO THE NEXT ANTICIPATED STORM EVENT. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.



SC-1 OR SC-5, SILT FENCE OR FIBER ROLLS TO PREVENT RUNOFF FROM STAGING YARD AND STORAGE AREA

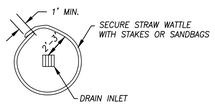
TYPICAL EQUIPMENT AND MATERIAL STORAGE AREA NOTES:

- EQUIPMENT AND MATERIAL STORAGE WILL BE LOCATED IN A DESIGNATED AREA OR REMOVED DAILY.
- INSTALL LINEAR SEDIMENT BARRIERS ON DRAINAGE PERIMETER OF STORAGE AREA.
- SPILL KITS ARE LOCATED IN STORAGE AREA AT ALL TIMES.
- IF NECESSARY, CONCRETE WASHOUT AREA WILL BE LOCATED IN STORAGE AREA.
- PROPER STORAGE OF VEHICLES AND EQUIPMENT ARE TO BE IN ACCORDANCE WITH SWPPP REQUIREMENTS.
- MATERIAL STORAGE FACILITIES ARE TO BE LOCATED IN STORAGE AREA.
- MATERIAL WASTE CONTAINMENT FACILITIES ARE TO BE LOCATED IN STORAGE AREA.
- LOOSE MATERIALS ARE TO BE COVERED WHEN NOT IN USE.
- VEHICLE AND EQUIPMENT FUELING ARE TO BE DONE IN STORAGE AREA.
- PAVING EQUIPMENT IS TO BE PARKED OVER PLASTIC COVERS.
- FINAL STAGING AREAS ARE TO BE DETERMINED BY CONTRACTOR.

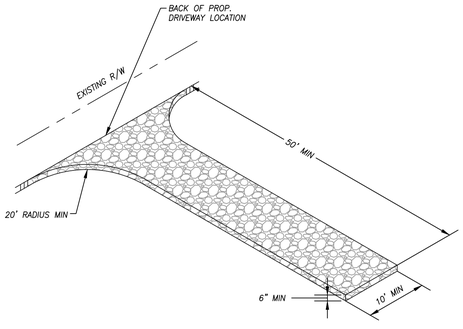


PREVENTS SEDIMENTS FROM ENTERING STORM DRAIN INLET

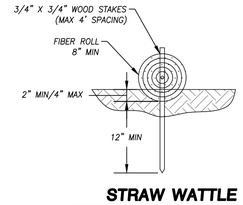
2 GRAVEL BAG DETAIL
NO SCALE



2.1 INLET PROTECTION DETAIL
NO SCALE

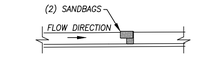


3 CONSTRUCTION ENTRANCE/EXIT DETAIL
NO SCALE



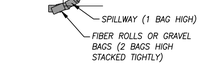
STRAW WATTLE
NO SCALE

1. STRAW WATTLES (FIBER ROLLS) WILL BE EITHER PREFABRICATED ROLLS OR ROLLED TUBES OF GEOTEXTILE FABRIC.
2. FIELD ROLLED FIBER ROLL IS ASSEMBLED BY ROLLING THE LENGTH OF GEOTEXTILE FABRIC INTO A TUBE OF MINIMUM 8-INCH DIAMETER AND BINDING THE ROLL AT EACH END AND EVERY 4 FEET ALONG THE LENGTH OF THE ROLL WITH JUTE-TYPE TWINE.
3. RAKE FREE ANY DIRT CLOGS OR STANDING VEGETATION IN AREAS TO RECEIVE FIBER ROLLS.
4. PLACE FIBER ROLLS INTO A 2 TO 4 INCH DEEP TRENCH WITH A WIDTH EQUAL TO THE DIAMETER OF THE FIBER ROLL.
5. WALK ON TOP OF THE ROLL TO SEAT TIGHTLY AGAINST THE SOIL.
6. STAKE FIBER ROLLS INTO A 2 TO 4 INCH DEEP TRENCH WITH A WIDTH EQUAL TO THE DIAMETER OF THE FIBER ROLL.
7. USE WOOD STAKES WITH A NOMINAL CLASSIFICATION OF 0.75 x 0.75 INCH AND MINIMUM LENGTH OF 24 INCHES.
8. DRIVE STAKES AT THE END OF EACH FIBER ROLL AND SPACED 4 FEET MAXIMUM ON CENTER.
9. BERM THE BACKSIDE OF THE FIBER ROLL WITH SOIL TO ENSURE SEDIMENT ENTRAPMENT.



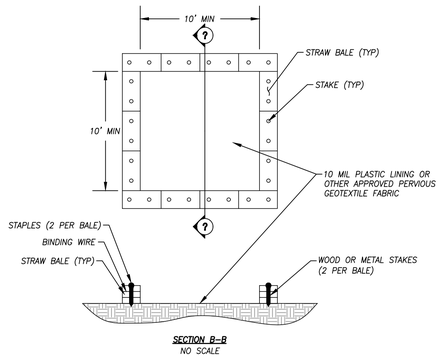
PREVENTS SEDIMENTS FROM LEAVING CONSTRUCTION AREA.

2.2 SANDBAG DETAIL
NO SCALE

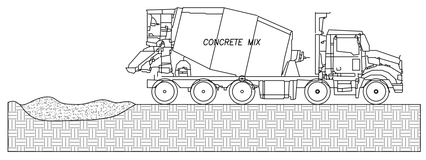


DESIGN SPECIFICATIONS
1. PLACE FIBER ROLLS OR GRAVEL BAG BARRIERS AT PROJECT LIMITS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. BAGS OF WOVEN GEOTEXTILE FABRIC SHALL BE FILLED WITH GRAVEL, LAYERED, AND PACKED TIGHTLY OR FIBER ROLLS SHALL BE USED.
3. LEAVE ONE GRAVEL BAG OR FIBER ROLL GAP IN THE TOP ROW TO PROVIDE A SPILLWAY FOR OVERFLOW.

2.3 CURB PROTECTION
NO SCALE



SECTION B-B
NO SCALE



DESIGN SPECIFICATIONS
1. PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORM WATER FROM CONCRETE WASTE BY CONDUCTING WASHOUT OFF-SITE, PERFORMING ON-SITE WASHOUT IN A DESIGNATED AREA, AND TRAINING EMPLOYEES AND SUBCONTRACTORS.
2. WASHOUT TO BE A RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF 10 FEET.
3. CONTRACTOR TO DUMP CONTENTS AS OFTEN AS REQUIRED.
4. THE WASHOUT WILL BE A MINIMUM OF 50 FEET FROM STORM DRAIN INLETS.
5. PLASTIC LINING WILL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

CONCRETE DISPOSAL AREA
NO SCALE

Know what's below. Call before you dig.

WARNING POWERLINES OVERHEAD

REVISIONS

ID	DATE	BY	DESCRIPTION

MONIQUE MELLO CERT. No. 22554
QUALIFIED SWPPP DEVELOPER
DATE

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TEMPERANCE ELEMENTARY SCHOOL
NOTES AND LEGEND
STORMWATER POLLUTION PREVENTION PLAN

PROJECT NO.:	250125
DRAWN BY:	SV
QA/QC BY:	AP
SCALE:	AS SHOWN
SHEET NO.:	2 OF 15

PROGRESS SET - NOT FOR CONSTRUCTION

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PROJECT LIMITS

PROJECT LIMITS

WE-1

WE-1

WE-1

WE-1

MATCHLINE
SEE SHEET 5

MATCHLINE
SEE SHEET 4

KEYMAP

N

20 0' 20

SCALE: 1"= 20

REVISIONS			
NO.	DATE	BY	DESCRIPTION

MONIQUE MELLO CERT. No. 22554
QUALIFIED SWPPP DEVELOPER

DATE

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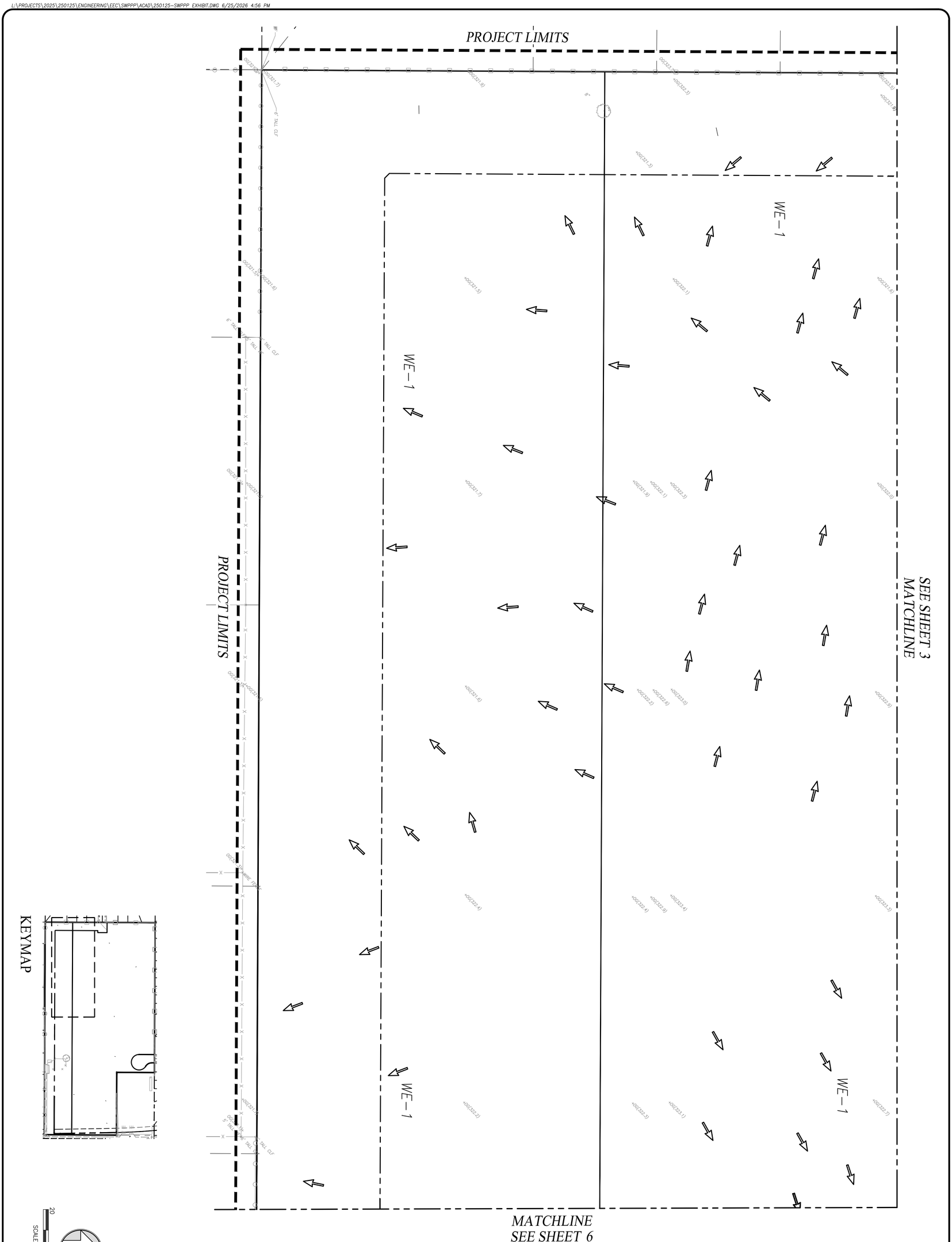
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TEMPERANCE ELEMENTARY SCHOOL
PRE-CONSTRUCTION BMPs
STORMWATER POLLUTION PREVENTION PLAN

PROJECT NO.: **250125**
DRAWN BY: **SV**
QA/QC BY: **AP**
SCALE: **AS SHOWN**
SHEET NO.: **3** OF **15**

PROGRESS SET - NOT FOR CONSTRUCTION

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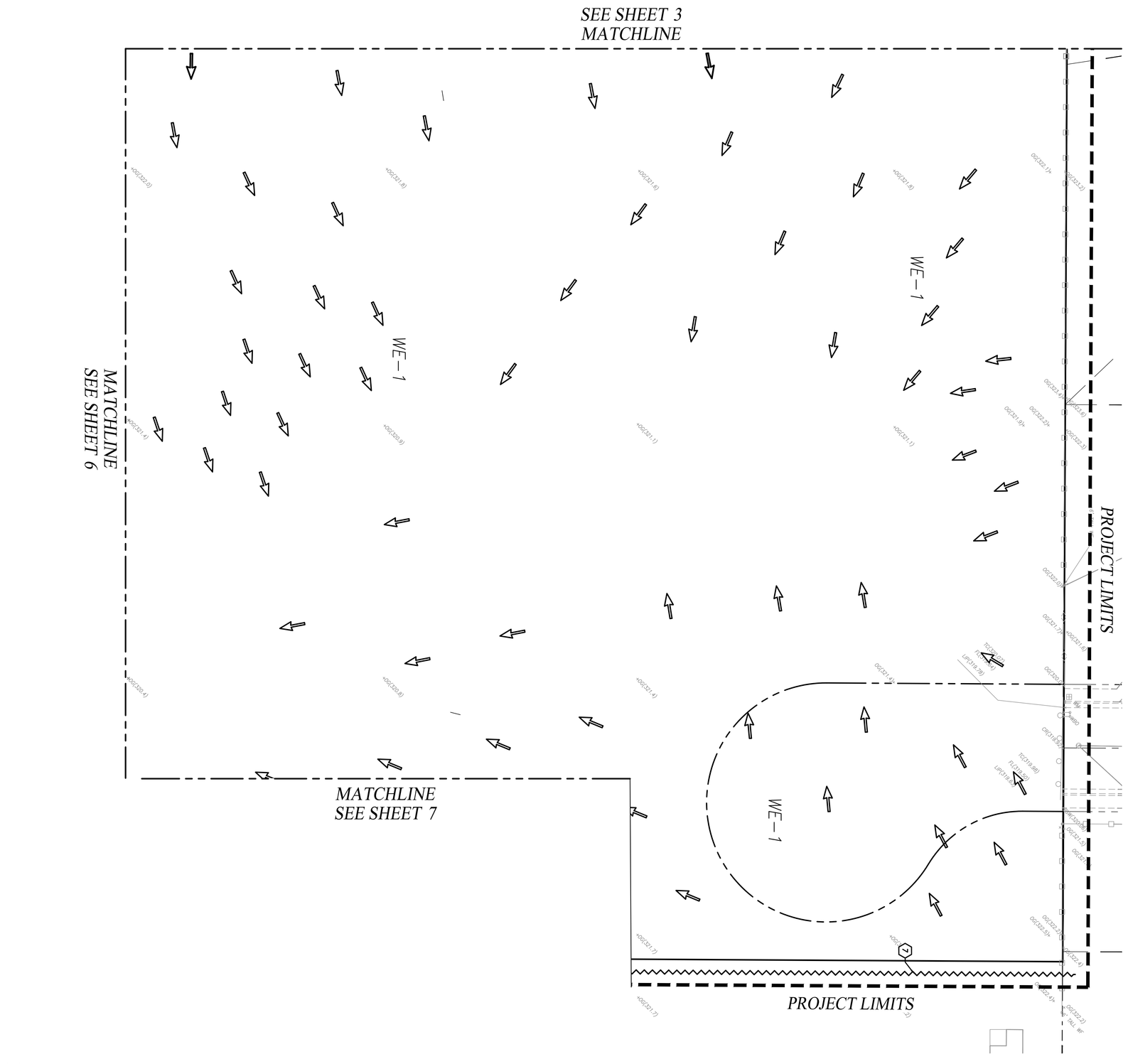
DATE MONIQUE MELLO CERT. No: 22554
QUALIFIED SWPPP DEVELOPER

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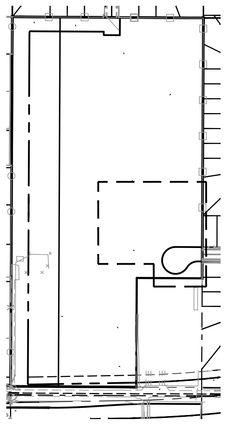
ID	DATE	BY	DESCRIPTION

PROJECT NO: 250125
DRAWN BY: SV
QA/QC BY: AP
SCALE: AS SHOWN
SHEET NO: 4 OF 15

PROGRESS SET - NOT FOR CONSTRUCTION



KEYMAP



SCALE: 1" = 20'

20 0 20

N

PROJECT NO:	250125
DRAWN BY:	SV
QA/QC BY:	AP
SCALE:	AS SHOWN
SHEET NO:	5 OF 15

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TEMPERANCE ELEMENTARY SCHOOL
PRE-CONSTRUCTION BMPs
STORMWATER POLLUTION PREVENTION PLAN

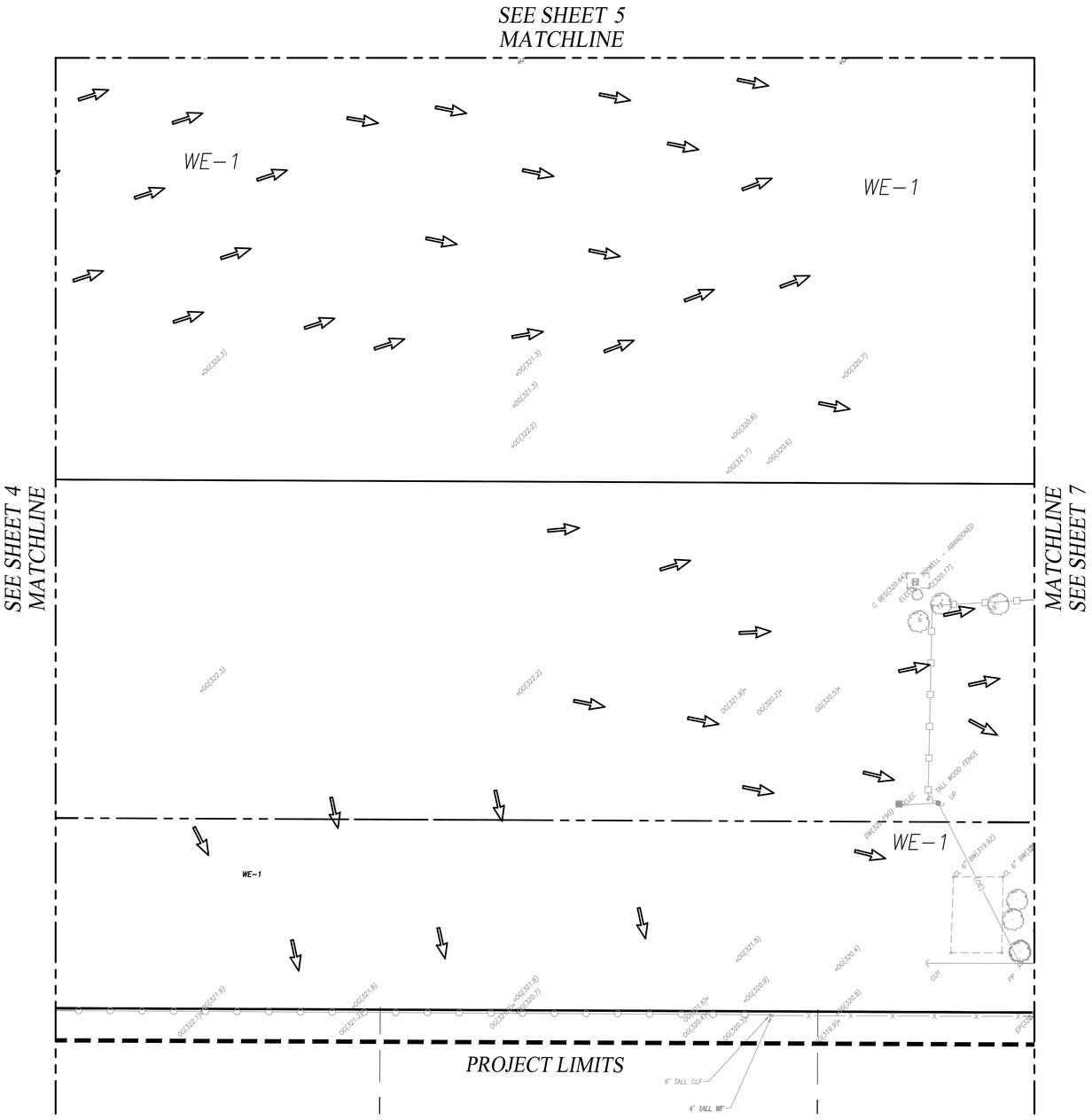
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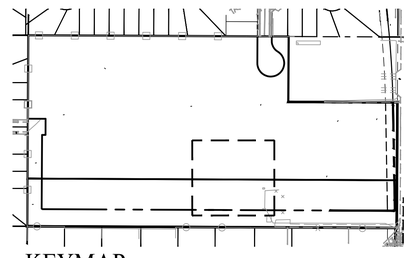
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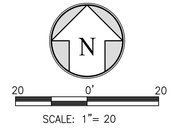
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ID	DATE	BY	DESCRIPTION

PROGRESS SET - NOT FOR CONSTRUCTION







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MONIQUE MELLO
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CERT. No. 22554
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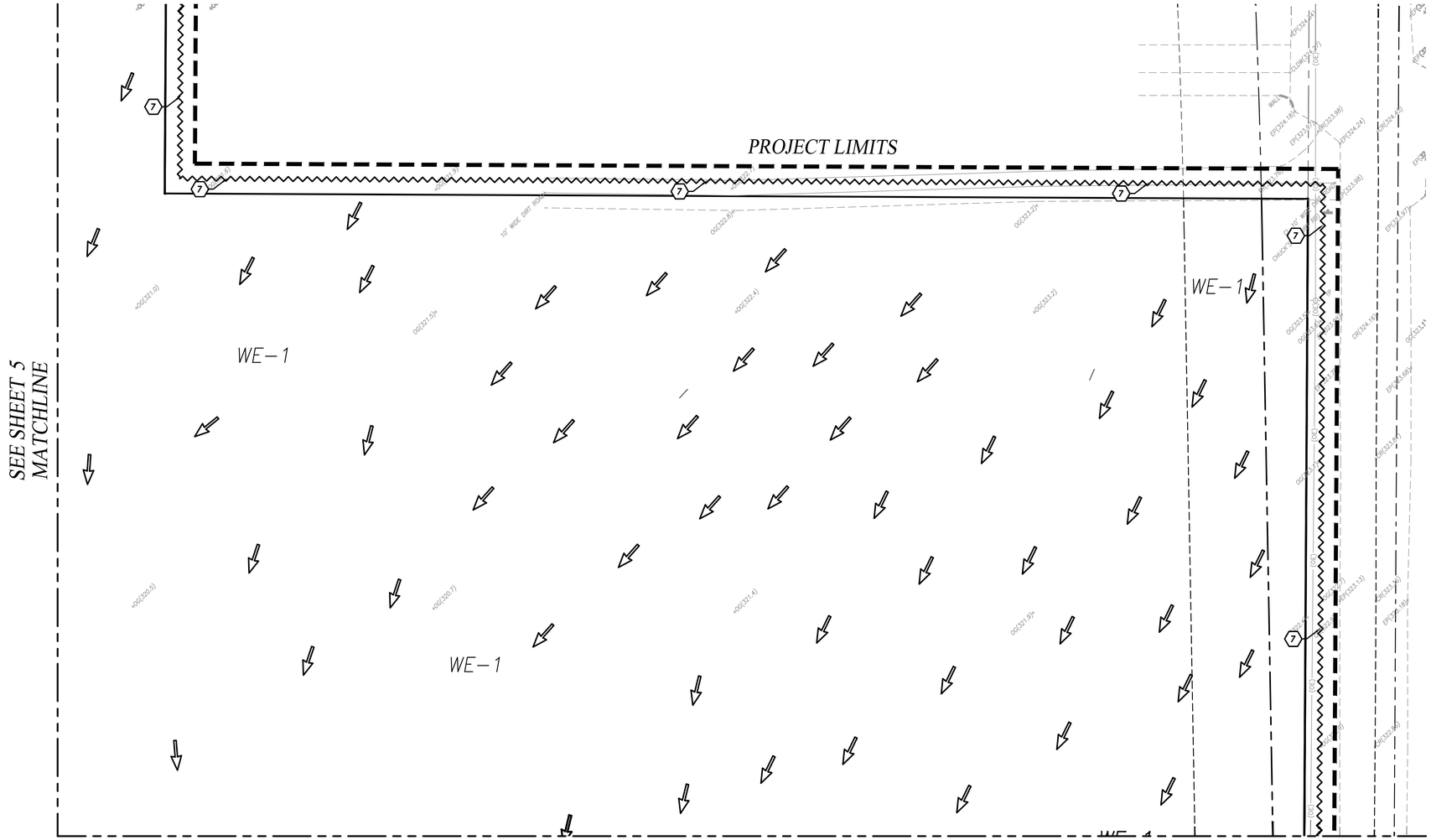
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TEMPERANCE ELEMENTARY SCHOOL
PRE-CONSTRUCTION BMPs
STORMWATER POLLUTION PREVENTION PLAN

PROJECT NO.:	250125
DRAWN BY:	SV
QA/QC BY:	AP
SCALE:	AS SHOWN
SHEET NO.:	6 OF 15

PROGRESS SET - NOT FOR CONSTRUCTION

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KEYMAP

N

20 0' 20

SCALE: 1"= 20

REVISIONS

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DATE

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TEMPERANCE ELEMENTARY SCHOOL
PRE-CONSTRUCTION BMPs
STORMWATER POLLUTION PREVENTION PLAN

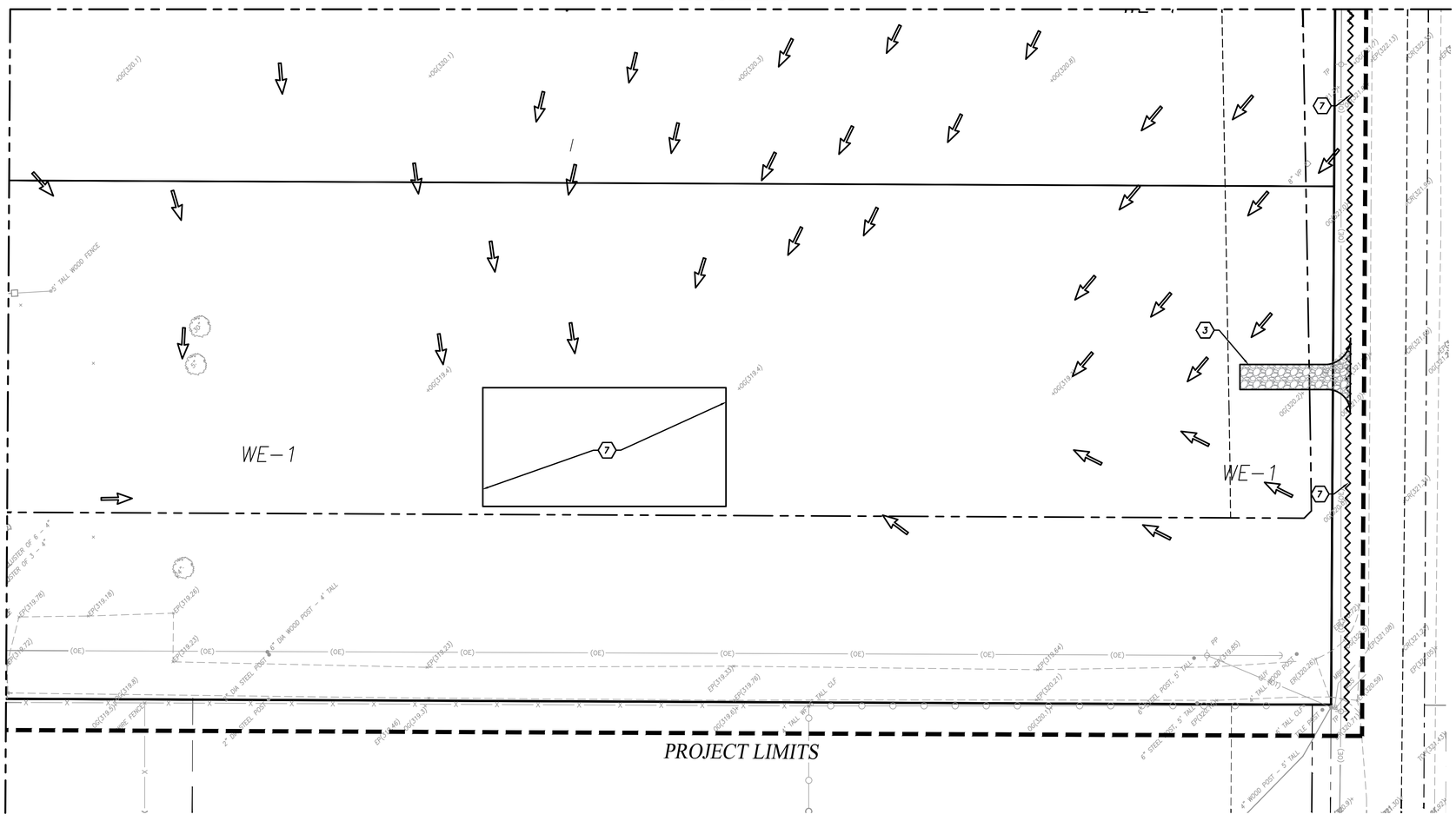
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DRAWN BY: **SV**
QA/QC BY: **AP**
SCALE: **AS SHOWN**
SHEET NO.: **7** OF **15**

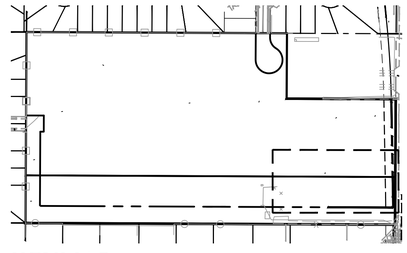
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SEE SHEET 7
MATCHLINE

SEE SHEET 6
MATCHLINE





KEYMAP

N

20 0' 20

SCALE: 1"= 20

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TEMPERANCE ELEMENTARY SCHOOL
PRE-CONSTRUCTION BMPs
STORMWATER POLLUTION PREVENTION PLAN

PROJECT NO.:	250125
DRAWN BY:	SV
QA/QC BY:	AP
SCALE:	AS SHOWN
SHEET NO.:	8 OF 15

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PROJECT LIMITS

BLDG 700

BLDG 600

FUTURE BLDG

BLDG 300

BLDG 400

BLDG 500

MATCHLINE
SEE SHEET 11

PROJECT LIMITS

MATCHLINE
SEE SHEET 10

SITE SPECIFIC SWPPP NOTES:

THIS SITE HAS BEEN CALCULATED AS A RISK LEVEL 1 DISCHARGER AND SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF THE PROJECT SWPPP AND AS SPECIFIED IN ATTACHMENT C OF THE GENERAL PERMIT.
THIS PROJECT DOES NOT REQUIRE A RAIN EVENT ACTION PLAN (REAP).

1. CONSTRUCT WORK EQUIPMENT STORAGE AREAS AS NEEDED FOR CONSTRUCTION PER THE CALIFORNIA BMP HANDBOOK.
2. SE-10: PROVIDE STANDARD STORM DRAIN INLET PROTECTION PER BMP STANDARD IN THE CALIFORNIA BMP HANDBOOK. PROVIDE INLET PROTECTION FOR EXISTING INLETS AT START OF CONSTRUCTION. AS PROPOSED INLETS ARE CONSTRUCTED INLET PROTECTION SHALL BE INSTALLED.
3. TC-1: THE STABILIZED CONSTRUCTION ENTRANCE IS DESIGNED TO REDUCE SOIL TRACK OFF INTO THE STREET. LOCATION AT CONTRACTOR'S DISCRETION. ONCE THE INTERIOR ROADS AND PARKING LOTS ARE COMPLETE, IT MAY BE POSSIBLE TO REPLACE THE CONSTRUCTION ENTRANCES WITH REGULAR STREET SWEEPING AT CONTRACTOR'S DISCRETION.
4. SE-7: STREET SWEEPING. KEEP TRAVELED ROADWAYS CLEAR OF SEDIMENT AND SOIL ACCUMULATION DURING CONSTRUCTION.
5. SAMPLING LOCATIONS SHALL BE AT MINIMUM LOCATED UPSTREAM (CONTROL SAMPLE) AND DOWNSTREAM OF CONSTRUCTION ACTIVITIES. SAMPLING IS ON AN AS NEEDED BASIS PER THE SWPPP AND CONSTRUCTION GENERAL PERMIT.
6. NEAREST WATER SOURCE. APPROXIMATE LOCATION OF NEARBY EXISTING FIRE HYDRANTS TO THE PROJECT SITE AND PROPOSED WATER SOURCE LOCATIONS AS SHOWN.
7. PERIMETER CONTROL BMP: SILT FENCE (SE-1). FIBER ROLLS (SE-5) OR OTHER APPROPRIATE MEASURE. ADDITIONALLY, PRESERVATION OF EXISTING VEGETATION (EC-2) SHALL BE MAINTAINED WHEREVER POSSIBLE.

KEYMAP

N

20" 0' 20'
SCALE: 1"= 20'

REVISIONS

NO.	DATE	BY	DESCRIPTION

DATE

MONIQUE MELLO CERT. No. 22554
QUALIFIED SWPPP DEVELOPER

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TEMPERANCE ELEMENTARY SCHOOL
CONSTRUCTION BMPs
STORMWATER POLLUTION PREVENTION PLAN

PROJECT NO.:	250125
DRAWN BY:	SV
QA/QC BY:	AP
SCALE:	AS SHOWN
SHEET NO.:	9 OF 15

PROGRESS SET - NOT FOR CONSTRUCTION

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SEE SHEET 9
MATCHLINE

PROJECT LIMITS

BLDG 100

BLDG 200

MATCHLINE
SEE SHEET 12

PROJECT LIMITS

SITE SPECIFIC SWPPP NOTES:

THIS SITE HAS BEEN CALCULATED AS A RISK LEVEL 1 DISCHARGER AND SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF THE PROJECT SWPPP AND AS SPECIFIED IN ATTACHMENT C OF THE GENERAL PERMIT.
THIS PROJECT DOES NOT REQUIRE A RAIN EVENT ACTION PLAN (REAP).

1. *CONSTRUCT WORK EQUIPMENT STORAGE AREAS AS NEEDED FOR CONSTRUCTION PER THE CALIFORNIA BMP HANDBOOK.*
2. *SE-10: PROVIDE STANDARD STORM DRAIN INLET PROTECTION PER BMP STANDARD IN THE CALIFORNIA BMP HANDBOOK. PROVIDE INLET PROTECTION FOR EXISTING INLETS AT START OF CONSTRUCTION. AS PROPOSED INLETS ARE CONSTRUCTED INLET PROTECTION SHALL BE INSTALLED.*
3. *TC-1: THE STABILIZED CONSTRUCTION ENTRANCE IS DESIGNED TO REDUCE SOIL TRACK OFF INTO THE STREET. LOCATION AT CONTRACTOR'S DISCRETION. ONCE THE INTERIOR ROADS AND PARKING LOTS ARE COMPLETE, IT MAY BE POSSIBLE TO REPLACE THE CONSTRUCTION ENTRANCES WITH REGULAR STREET SWEEPING AT CONTRACTOR'S DISCRETION.*
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5. *SAMPLING LOCATIONS SHALL BE AT MINIMUM LOCATED UPSTREAM (CONTROL SAMPLE) AND DOWNSTREAM OF CONSTRUCTION ACTIVITIES. SAMPLING IS ON AN AS NEEDED BASIS PER THE SWPPP AND CONSTRUCTION GENERAL PERMIT.*
6. *NEAREST WATER SOURCE. APPROXIMATE LOCATION OF NEARBY EXISTING FIRE HYDRANTS TO THE PROJECT SITE AND PROPOSED WATER SOURCE LOCATIONS AS SHOWN.*
7. *PERIMETER CONTROL BMP: SILT FENCE (SE-1). FIBER ROLLS (SE-5) OR OTHER APPROPRIATE MEASURE. ADDITIONALLY, PRESERVATION OF EXISTING VEGETATION (EC-2) SHALL BE MAINTAINED WHEREVER POSSIBLE.*

KEYMAP

N

20" 0' 20'

SCALE: 1"= 20'

REVISIONS

NO.	DATE	BY	DESCRIPTION

MONIQUE MELLO — CERT. No. 22554
QUALIFIED SWPPP DEVELOPER — DATE

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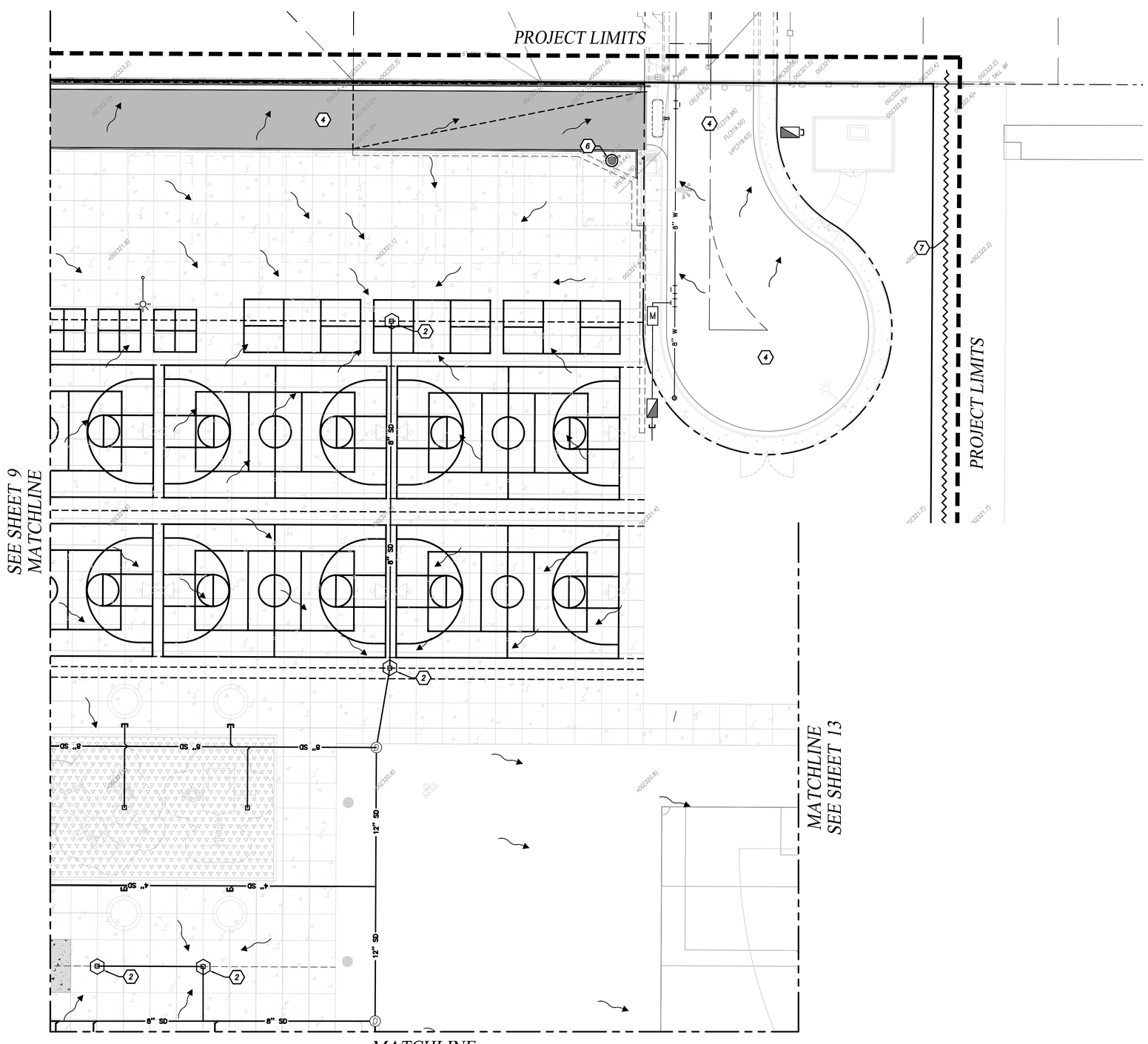
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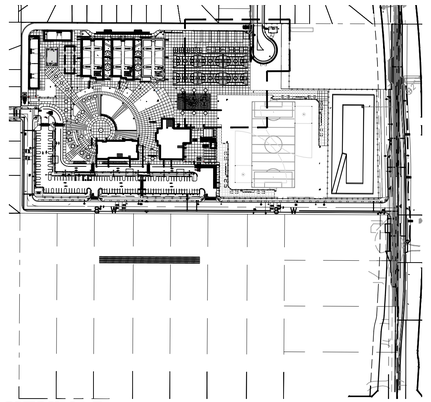
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CONSTRUCTION BMPs
STORMWATER POLLUTION PREVENTION PLAN

PROJECT NO.: 250125
DRAWN BY: SV
QA/QC BY: AP
SCALE: AS SHOWN
SHEET NO.: 10 OF 15

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KEYMAP

SITE SPECIFIC SWPPP NOTES:

THIS SITE HAS BEEN CALCULATED AS A RISK LEVEL 1 DISCHARGER AND SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF THE PROJECT SWPPP AND AS SPECIFIED IN ATTACHMENT C OF THE GENERAL PERMIT.
THIS PROJECT DOES NOT REQUIRE A RAIN EVENT ACTION PLAN (REAP).

1. CONSTRUCT WORK EQUIPMENT STORAGE AREAS AS NEEDED FOR CONSTRUCTION PER THE CALIFORNIA BMP HANDBOOK.
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N

20" 0' 20'

SCALE: 1"= 20'

REVISIONS

ID	DATE	BY	DESCRIPTION

DATE
MONIQUE MELLO CERT: No. 22554
QUALIFIED SWPPP DEVELOPER

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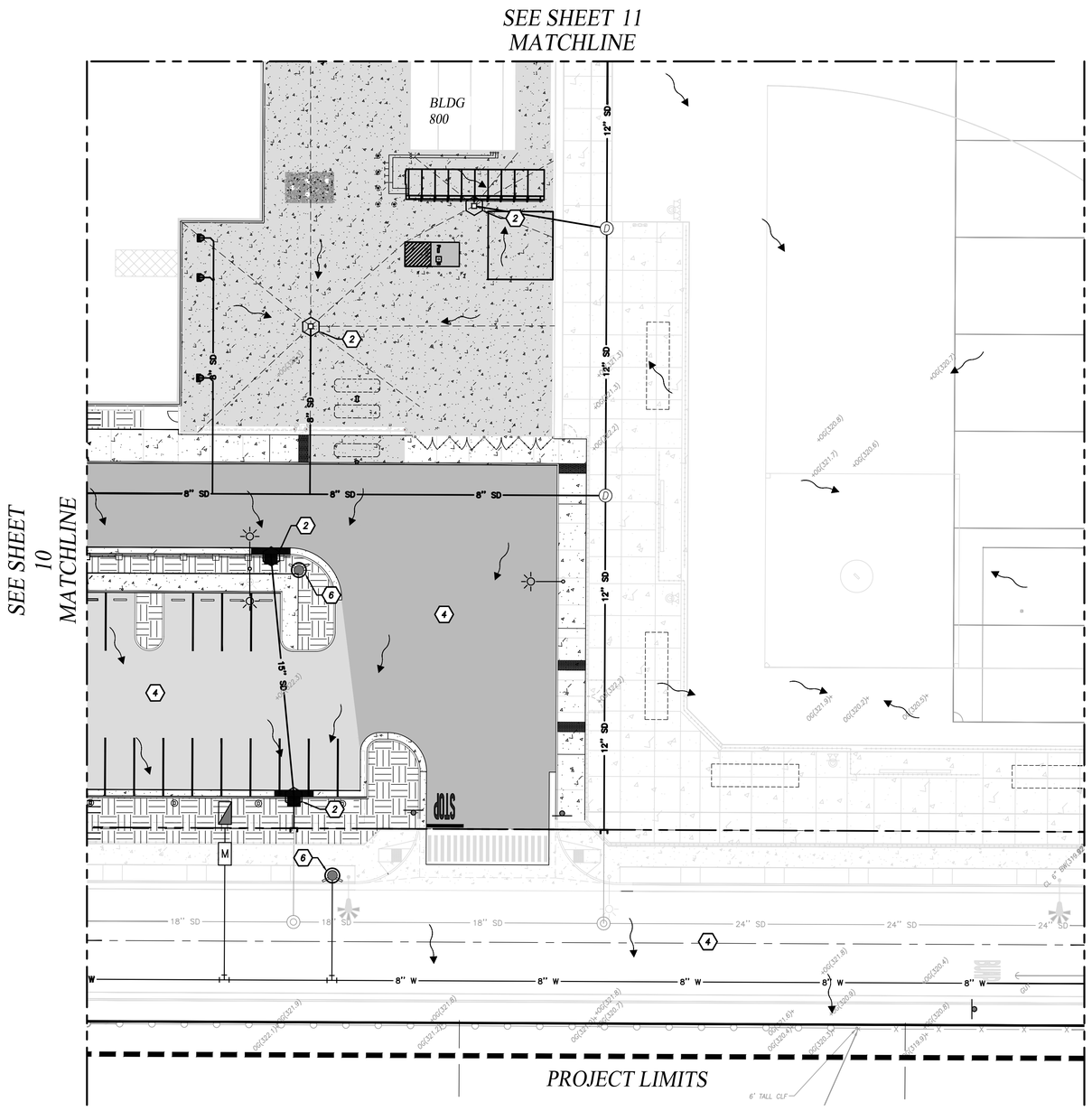
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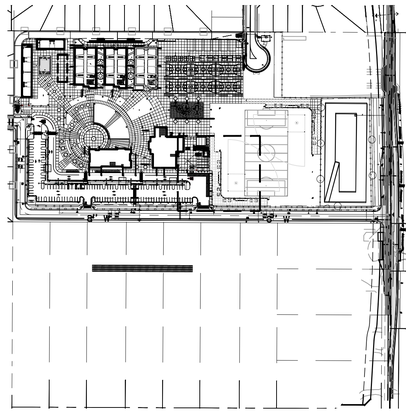
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CONSTRUCTION BMPs
STORMWATER POLLUTION PREVENTION PLAN

PROJECT NO.:	250125
DRAWN BY:	SV
QA/QC BY:	AP
SCALE:	AS SHOWN
SHEET NO.:	11 OF 15

PROGRESS SET - NOT FOR CONSTRUCTION

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KEYMAP

SITE SPECIFIC SWPPP NOTES:

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N

20" 0' 20'

SCALE: 1"= 20'

REVISIONS

NO.	DATE	BY	DESCRIPTION

MONIQUE MELLO CERT. No. 22554
QUALIFIED SWPPP DEVELOPER

QUAD KNOPF, INC.
7200 N. GOLDEN STATE BLVD., SUITE 101
FRESNO, CA 93720
(559) 733-0440
WWW.QKINC.COM
HANFORD, CLOVIS, MERCED, PORTERVILLE
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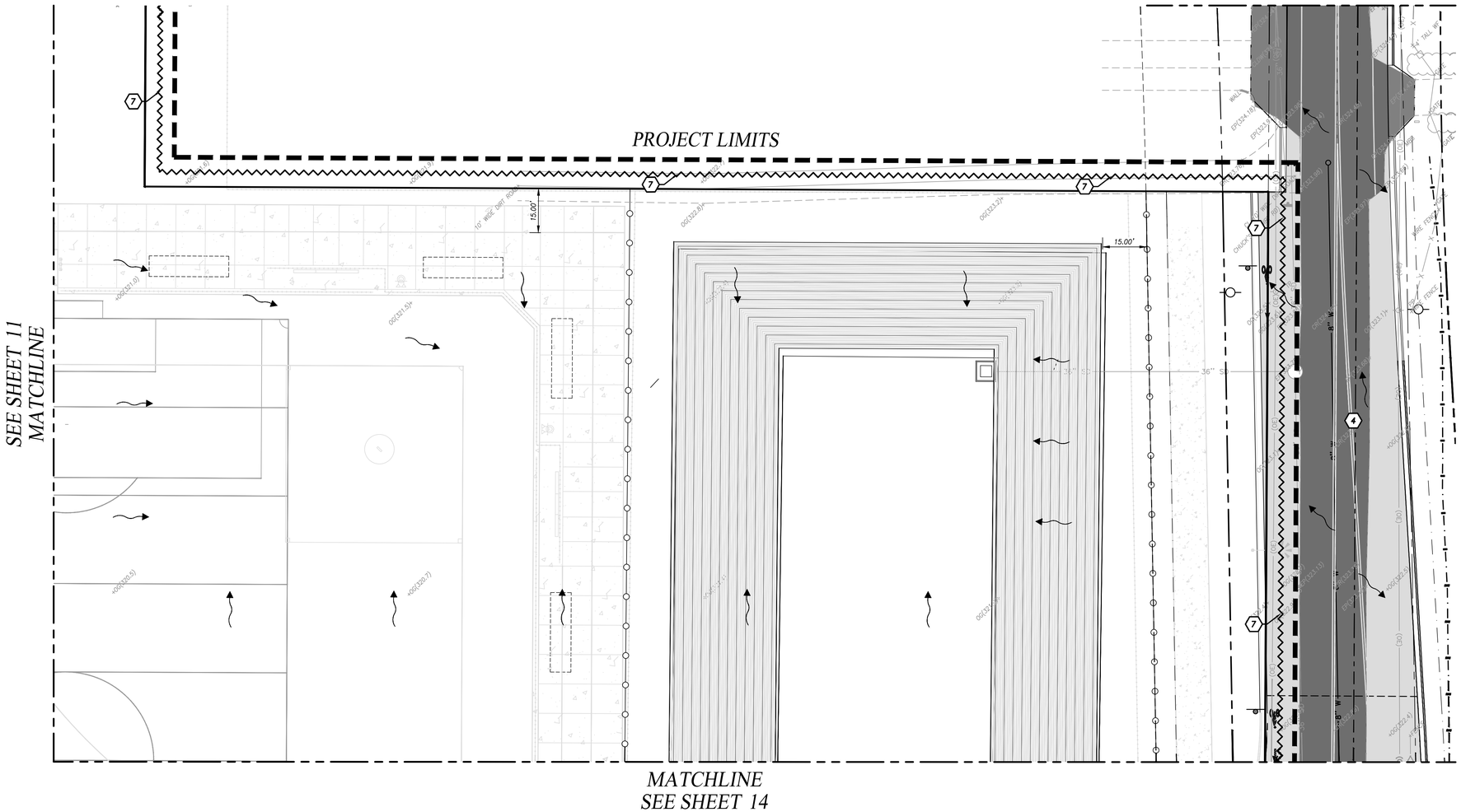
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1905 SEVENTH ST.
SANGER, CA. 93657
(559) 524-6521

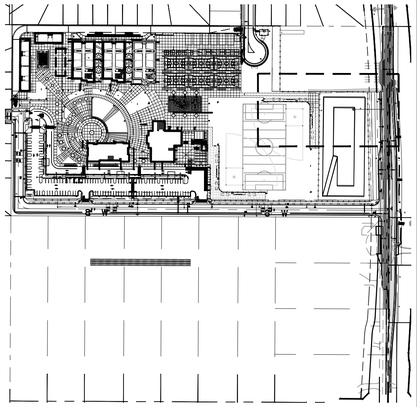
TEMPERANCE ELEMENTARY SCHOOL
CONSTRUCTION BMPs
STORMWATER POLLUTION PREVENTION PLAN

PROJECT NO.: **250125**
DRAWN BY: **SV**
QA/QC BY: **AP**
SCALE: **AS SHOWN**
SHEET NO.: **12** OF **15**

PROGRESS SET - NOT FOR CONSTRUCTION

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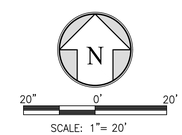


KEYMAP

SITE SPECIFIC SWPPP NOTES:

THIS SITE HAS BEEN CALCULATED AS A RISK LEVEL 1 DISCHARGER AND SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF THE PROJECT SWPPP AND AS SPECIFIED IN ATTACHMENT C OF THE GENERAL PERMIT.
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REVISIONS			
NO.	DATE	BY	DESCRIPTION

DATE	MONIQUE MELLO	CERT. No. 22554
	QUALIFIED SWPPP DEVELOPER	

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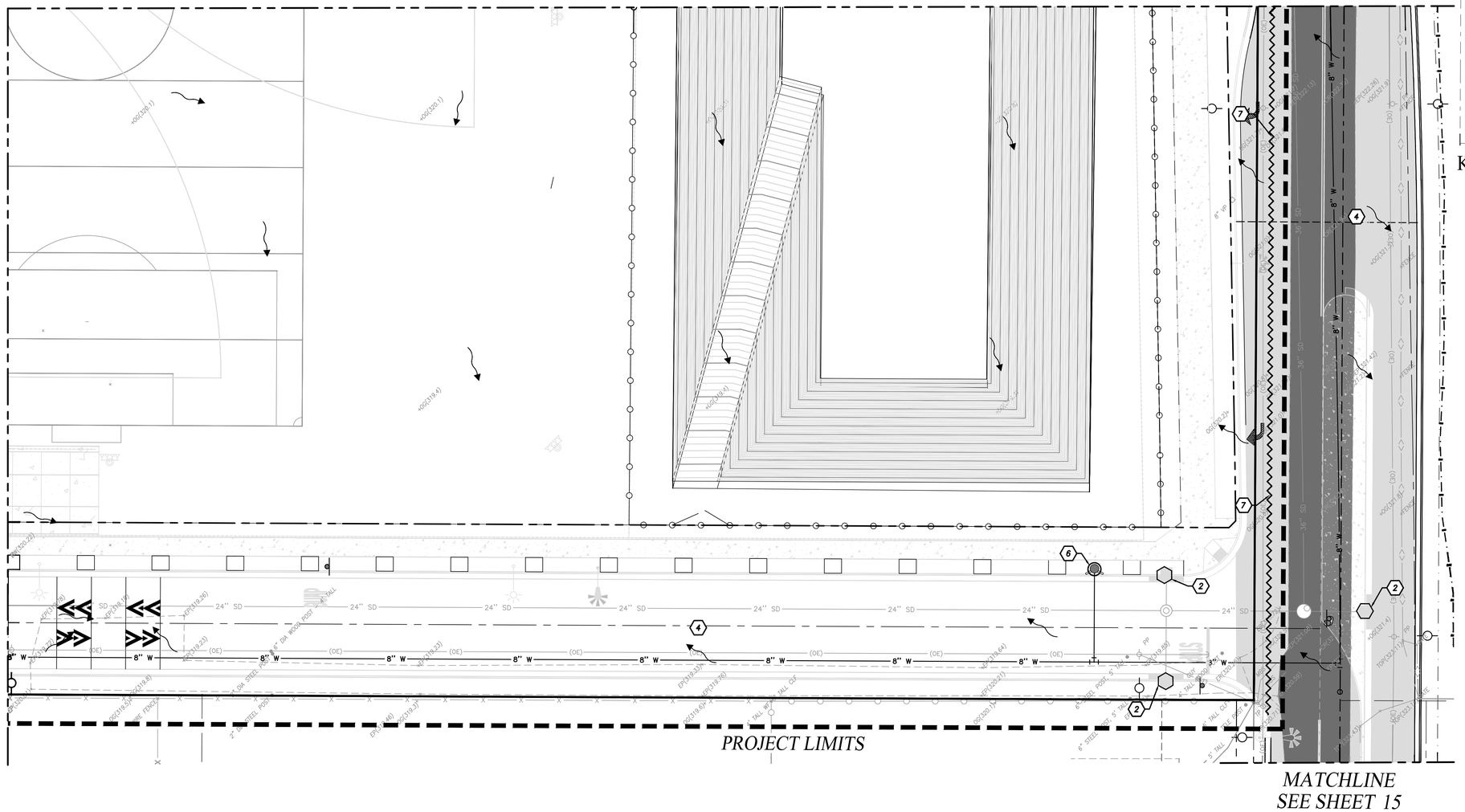
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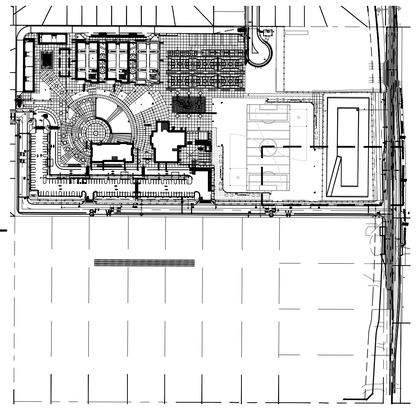
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CONSTRUCTION BMPs
STORMWATER POLLUTION PREVENTION PLAN

PROJECT NO.:	250125
DRAWN BY:	SV
QA/QC BY:	AP
SCALE:	AS SHOWN
SHEET NO.:	13 OF 15

PROGRESS SET - NOT FOR CONSTRUCTION

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KEYMAP

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QK
1550 E. SHAW AVE., SUITE 200 FRESNO, CA 93710 (559) 733-0440
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TEMPERANCE ELEMENTARY SCHOOL
CONSTRUCTION BMPs
STORMWATER POLLUTION PREVENTION PLAN

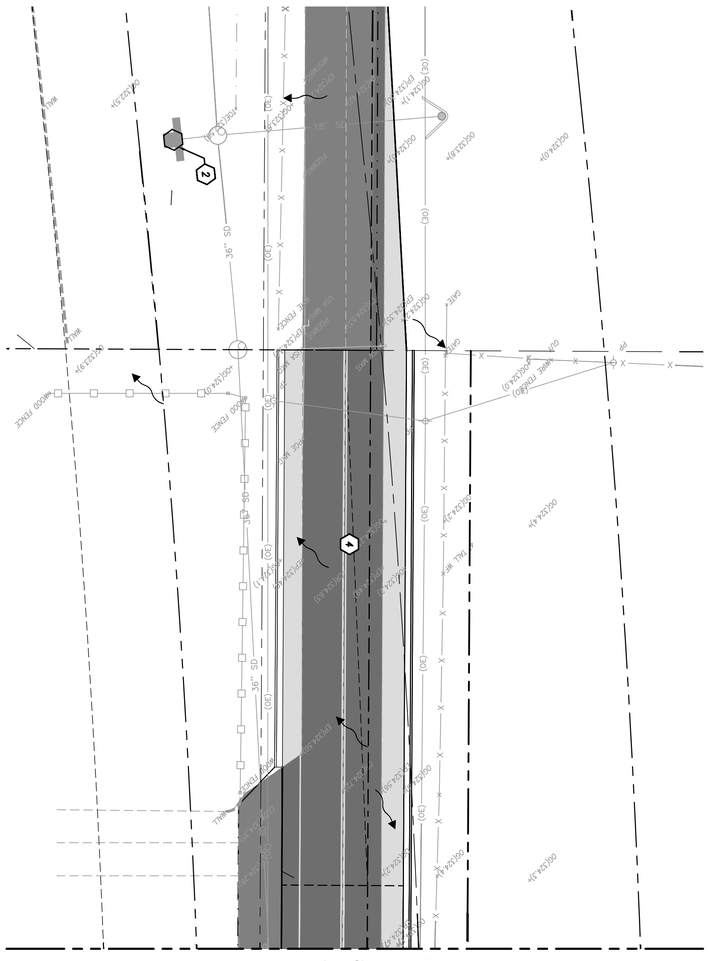
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DRAWN BY:	SV
QA/QC BY:	AP
SCALE:	AS SHOWN
SHEET NO.:	14 OF 15

PROGRESS SET - NOT FOR CONSTRUCTION

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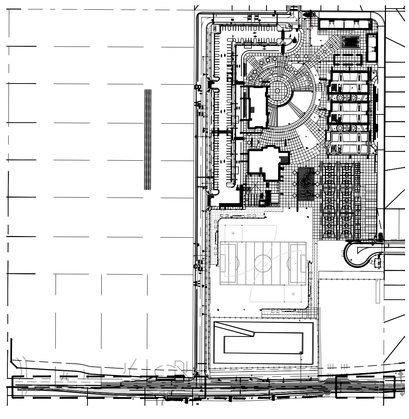
SEE SHEET 14
MATCHLINE





MATCHLINE
SEE SHEET 13

KEYMAP



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SCALE: 1"= 20'

PROJECT NO: 250125	DRAWN BY: SV	CA / OC BY: AP	SCALE: AS SHOWN	SHEET NO.: 15 OF 15		

SANGER UNIFIED SCHOOL DISTRICT
1905 SEVENTH ST.
SANGER, CA, 93657
(559) 524-6521

TEMPERANCE ELEMENTARY SCHOOL CONSTRUCTION BMPs
STORMWATER POLLUTION PREVENTION PLAN

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DATE MONIQUE MELLO CERT. No: 22554
QUALIFIED SWPPP DEVELOPER

REVISIONS

ID	DATE	BY	DESCRIPTION

PROGRESS SET - NOT FOR CONSTRUCTION

Appendix B: Permit Registration Documents

Permit Registration Documents included in this Appendix:

Location in SWPPP	**Permit Registration Document** (in addition to a copy of the SWPPP)
Y	Notice of Intent
Y	Risk Level Determination
Y	Certification
Y	Post-Construction Requirements, if applicable
Y	Post-Construction Water Balance Calculator, if applicable
N	Copy of Annual Fee Receipt
N	ATS Design Documents, if applicable
N	Passive Treatment Design Documents, if applicable
Y	Site Maps and Drawings, see Appendix A

Appendix C: SWPPP Amendment QSD Certifications

SWPPP Amendment No. _____

Project Name: Temperance Elementary School

Project Number: _____

Qualified SWPPP Developer's Certification of the Stormwater Pollution Prevention Plan Amendment

"This Stormwater Pollution Prevention Plan and its appendices were prepared under my direction to meet the requirements of the 2022 CGP (SWRCB Order No. 2022-0057-DWQ). I certify that I am a Qualified SWPPP Developer in good standing as of the date signed below."

QSD's Signature	Date
QSD Name	QSD Certificate Number
Title and Affiliation	Telephone
Address	Email

Appendix D: Submitted Changes of Information

Log of Updated PRDs

The 2022 CGP allows for the reduction or increase of the total acreage when a portion of the project is complete and/or conditions for termination of coverage have been met; when ownership of a portion of the project is purchased by a different entity; or when new acreage is added to the project.

A Change of Information (COI) shall be filed electronically within the timeframe shown in the table below. The SWPPP shall be modified appropriately, with revisions and amendments recorded in the SWPPP Amendment Log at the front of the SWPPP. COIs submitted electronically via SMARTS can be found in this Appendix.

Reason for Filing COI	**Timeline for Filing COI**
Reduction or increase in total disturbed area	Within 30 days of the reduction or increase
Updating site specific BMPs	Within 14 days of design change
Change construction start or end date	At least 14 days prior to the date to be changed
Post-construction plans updated or approved by the municipal stormwater permittee	Within 14 days of approval

---

This appendix includes all of the following updated PRDs (check all that apply):

☐ Change of Information;

☐ Revised Site Map;

☐ Revised Risk Assessment;

☐ New landowner's information (name, address, phone number, email address); and

☐ New signed certification statement.

Signature of [Authorized Representative of] Legally Responsible Person or Duly Authorized Representative	Date
Name of [Authorized Representative of] Legally Responsible Person or Duly Authorized Representative	Telephone Number

Appendix E: Construction Schedule

Appendix F: Construction Activities, Materials Used, and Associated Pollutants

Table F.1 Pollutant Source Assessment Form

Phase	Activity	Associated Materials or Pollutants	Pollutant Category [1]
Demolition and Pre-Development Site Preparation Phase			
Grading and Land Development			
Streets and Utilities Phase			
Vertical Construction Phase			
Final Landscaping and Site Stabilization Phase			

[1] Categories per CASQA BMP Handbook (i.e., Sediment, Nutrients, Bacteria and Viruses, Oil and Grease, Metals, Synthetic Organics, Pesticides, Gross Pollutants, and Vector Production)

Appendix G: CASQA Stormwater BMP Handbook: Construction Fact Sheets

Appendix H: BMP Inspection Form

BMP INSPECTION REPORT

Date and Time of Inspection:	Date Report Written:

Inspection Type: (Circle one)	Weekly *Complete Parts I,II,III and VII*	Pre-Qualifying Precipitation Event (QPE) *Complete Parts I,II,III,IV and VII*	During QPE *Complete Parts I, II, III, V, and VII*	Post-QPE *Complete Parts I,II,III,VI and VII*	*Inactive Project Complete Parts I,II,III and VII*

Part I. General Information

Site Information

Construction Site Name:	
Construction stage and completed activities:	Approximate area of site that is exposed:

Photos Taken: (Circle one)	Yes	No	Photo Reference IDs:

Weather

Estimate storm beginning: (date and time)	Estimate storm duration: (hours)
Estimate time since last storm: (days or hours)	Rain gauge reading and location: (in)

Is a “Qualifying Precipitation Event” predicted or did one occur (i.e., any weather pattern with a 50% chance of 0.5” or more within a 24-hr period when 0.5” has been forecast and continues on subsequent 24-hour periods when 0.25” of precipitation or more is forecast)? (Y/N)
If yes, summarize forecast:

Exception Documentation (explanation required if inspection could not be conducted). Visual observations are not required outside of business hours or during dangerous weather conditions such as electrical storms, flooding, and high winds above 40 miles per hour.

Inspector Information

Inspector Name:	Inspector Title:

Inspector Certification:	Date:

Part II. BMP Observations. Describe deficiencies in Part III.			
Minimum BMPs for Risk Level _____ Sites	Adequately designed, implemented and effective (yes, no, N/A)	Action Required (yes/no)	Action Implemented (Date)
Good Housekeeping for Construction Materials			
Inventory of products (excluding materials designed to be outdoors)			
Stockpiled construction materials not actively in use are covered and bermed			
All chemicals are stored in watertight containers with appropriate secondary containment, or in a completely enclosed storage shed			
Construction materials are minimally exposed to precipitation			
BMPs preventing the off-site tracking of materials are implemented and properly effective			
Good Housekeeping for Waste Management			
Wash/rinse water and materials are prevented from being disposed into the storm drain system			
Portable toilets are contained to prevent discharges of waste			
Sanitation facilities are clean and with no apparent for leaks and spills			
Equipment is in place to cover waste disposal containers at the end of business day and during rain events			
Discharges from waste disposal containers are prevented from discharging to the storm drain system / receiving water			
Stockpiled waste material is securely protected from wind and rain if not actively in use			
Procedures are in place for addressing hazardous and non-hazardous spills			
Appropriate spill response personnel are assigned and trained			
Equipment and materials for cleanup of spills is available onsite			
Washout areas (e.g., concrete) are contained appropriately to prevent discharge or infiltration into the underlying soil			
Good Housekeeping for Vehicle Storage and Maintenance			
Measures are in place to prevent oil, grease, or fuel from leaking into the ground, storm drains, or surface waters			
All equipment or vehicles are fueled, maintained, and stored in a designated area with appropriate BMPs			
Vehicle and equipment leaks are cleaned immediately and disposed of properly			

Part II. BMP Observations Continued. Describe deficiencies in Part III.			
Minimum BMPs for Risk Level _____ Sites	Adequately designed, implemented and effective (yes, no, N/A)	Action Required (yes/no)	Action Implemented (Date)
Good Housekeeping for Landscape Materials			
Stockpiled landscape materials such as mulches and topsoil are contained and covered when not actively in use			
Erodible landscape material has not been applied 2 days before a forecasted rain event or during an event			
Erodible landscape materials are applied at quantities and rates in accordance with manufacturer recommendations			
Bagged erodible landscape materials are stored on pallets and covered			
Good Housekeeping for Air Deposition of Site Materials			
Good housekeeping measures are implemented onsite to control the air deposition of site materials and from site operations			
Non-Stormwater Management			
Non-Stormwater discharges are properly controlled			
Vehicles are washed in a manner to prevent non-stormwater discharges to surface waters or drainage systems			
Streets are cleaned in a manner to prevent unauthorized non-stormwater discharges to surface waters or drainage systems.			
Erosion Controls			
Wind erosion controls are effectively implemented			
Effective soil cover is provided for disturbed areas inactive (i.e., not scheduled to be disturbed for 14 days) as well as finished slopes, open space, utility backfill, and completed lots			
The use of plastic materials is limited in cases when a more sustainable, environmentally friendly alternative exists.			
Sediment Controls			
Perimeter controls are established and effective at controlling erosion and sediment discharges from the site			
Entrances and exits are stabilized to control erosion and sediment discharges from the site			
Sediment basins are properly maintained			
Inspect immediate access roads prior to forecasted precipitation			
Linear sediment control along toe of slope, face of slope an at grade breaks (Risk Level 2 & 3 Only)			
Limit construction activity to and from site to entrances and exits that employ effective controls to prevent offsite tracking (Risk Level 2 & 3 Only)			
Ensure all storm, drain inlets and perimeter controls, runoff control BMPs and pollutants controls at entrances and exits			

are maintained and protected from activities the reduce their effectiveness (Risk Level 2 & 3 Only)			
Run-On and Run-Off Controls			
Run-on to the site is effectively managed and directed away from all disturbed areas.			
Other			
Are the project SWPPP and BMP plan up to date, available onsite and being properly implemented?			
Is the posting of the project's unique WDID number, waiver identification number, and site and project contact information publicly accessible?			

Part III. Descriptions of BMP Deficiencies		
Deficiency	**Repairs Implemented: Note - Repairs must begin within 72 hours of identification and, complete repairs as soon as possible.**	
	Start Date	**Action**
1.		
2.		
3.		
4.		

Part IV. Additional Pre-QPE Observations. Note the presence or absence of floating and suspended materials, sheen, discoloration, turbidity, odors, and source(s) of pollutants(s).	
	Yes, No, N/A
Do stormwater storage and containment areas have adequate freeboard? If no, complete Part III.	
Are drainage areas free of spills, leaks, or uncontrolled pollutant sources? If no, complete Part VII and describe below.	
Notes:	
Are stormwater storage and containment areas free of leaks? If no, complete Parts III and/or VII and describe below.	
Notes:	

Part V. Additional During-QPE Observations. If BMPs cannot be inspected during inclement weather, list the results of visual observations at all relevant outfalls, discharge points, and downstream locations. Note odors or visible sheen on the surface of discharges. Complete Part VII (Corrective Actions) as needed.	
Outfall, Discharge Point, or Other Downstream Location	
Location	Description
Location	Description
Location	Description
Location	Description

Part VI. Additional Post-QPE Observations. Visually observe (inspect) stormwater discharges at all discharge locations within 96 hours after each qualifying precipitation event, and observe (inspect) the discharge of stored or contained stormwater that is derived from and discharged subsequent to a qualifying precipitation event producing precipitation of ½ inch or more at the time of discharge. Complete Part VII (Corrective Actions) as needed.	
Discharge Location, Storage or Containment Area	**Visual Observation**

Part VII. Additional Corrective Actions Required. Identify additional corrective actions not included with BMP Deficiencies (Part III) above. Note if SWPPP change is required.	
Required Actions	**Implementation Date**

Appendix I: Training Forms

Contractor Personnel Training Log

Stormwater Management Training Log and Documentation

Project Name: Temperance Elementary School

WDID: _____

Stormwater Management Topic: (check as appropriate)

☐ Good Housekeeping BMPs ☐ Erosion Control BMPs

☐ Sediment Control BMPs ☐ Tracking Control

☐ Non-Stormwater Management BMPs ☐ Waste Management & Pollution Control BMPs

☐ BMP Implementation Activities ☐ Advanced BMPs

☐ Identification of QSPs and QSP Delegates

Training Objective: _____

Date: _____ Instructor: _____

Training Length (hours): _____

Attendee Roster (Attach additional forms if necessary)

Name	Company	Phone

QSP Delegate Training Log

Stormwater Management Training Log and Documentation

Project Name: Temperance Elementary School

WDID: _____

QSP Delegate Name: _____

Delegated Responsibilities:

☐ Stormwater Visual Observations

☐ Sampling

☐ BMP Observations

☐ BMP Maintenance and Repair

Foundational Training

Topic	Date Completed	QSP Trainer
☐ Roles and Responsibilities		
☐ Forecast Information		
☐ Documentation and Reporting Procedures		

Site-Specific Training

Topic	Date Completed	QSP Trainer
☐ Visual Observations		
☐ Sample Collection Procedures		
☐ Sample Reporting Procedures		
☐ BMP Implementation		

As needed, attach proof of external training (e.g., course completion certificates, credentials for the QSP Delegate).

Appendix J: Responsible Parties

Identification of QSP and QSP Delegates

Project Name: Temperance Elementary School

WDID: _____

The following are QSPs and QSP Delegates associated with this project

Name of Personnel (1)	QSP Number, or state "Delegate"	Company	Date
Andrea Pedraza	27175	QK	May 2019

(1) If additional QSPs or QSP Delegates are required on the job site add additional lines

Appendix K: Contractors and Subcontractors

Contractor Name:	
Title:	
Contractor Company:	
Address	
Phone Number:	
Phone Number (24/7)	
[Add additional rows, if needed]	

Appendix L: Calculations

Appendix M: Weather Reports

The discharger must obtain the precipitation forecast information from the National Weather Service Forecast Office (http://forecast.weather.gov). A printed copy with the date and time of printing should be retained in this Appendix.

Appendix N: Monitoring Records

Place completed BMP Inspection Forms, photographic documentation, Effluent Sampling, Receiving Water, and Dewatering Field Logs, Monitoring Exceptions, NAL Exceedance Reports, and Receiving Water Monitoring Trigger Exceptions in this appendix.

Appendix O: Example Storm Event Monitoring Forms

Rain Gauge Log Sheet				
Construction Site Name:				
WDID #:				
Date (mm/dd/yy)	Time (24-hr)	Initials	Rainfall Depth (Inches)	Notes:

Risk Level 1, 2, 3 ***Visual Inspection Field Log Sheet***					
Date and Time of Inspection:				Report Date:	
Inspection Type:	☐ Weekly	☐ Pre-Qualifying Precipitation Event (QPE)	☐ During QPE	☐ Post QPE	☐ Dewatering Discharge
Site Information					
Construction Site Name:					
Construction stage and completed activities:				Approximate area of exposed site:	
Weather and Observations					
Date Rain Predicted to Occur:			Predicted % chance of precipitation (PoP): Predicted quantity of precipitation (QPF):		
Estimate storm beginning: _____ (date and time)	Estimate storm duration: _____ (hours)		Estimate time since last storm: _____ (days or hours)	Rain gauge reading:_____ (inches)	
Observations: If yes identify location					
Odors	Yes ☐	No ☐			
Floating material	Yes ☐	No ☐			
Suspended Material	Yes ☐	No ☐			
Sheen	Yes ☐	No ☐			
Discolorations	Yes ☐	No ☐			
Turbidity	Yes ☐	No ☐			
Site Observations					
Outfalls or BMPs Evaluated			**Deficiencies Noted**		
(add additional sheets or attached detailed BMP Inspection Checklists)					
Photos Taken:	Yes ☐	No ☐	Photo Reference IDs:		
Corrective Actions Identified (note if SWPPP/REAP change is needed)					
Inspector Information					
Inspector Name:			Inspector Title:		
Signature:				Date:	

Risk Level 1, 2, 3 ***Effluent Sampling Field Log Sheets***			
Construction Site Name:		Date:	Time Start:
Sampler:			
Sampling Event Type:	☐ Stormwater	☐ Dewatering Discharge	☐ Non-visible pollutant
Field Meter Calibration			
pH Meter ID No./Desc.: Calibration Date/Time:		Turbidity Meter ID No./Desc.: Calibration Date/Time:	

Field pH and Turbidity Measurements			
Discharge Location Description	pH	Turbidity	Time

Grab Samples Collected		
Discharge Location Description	Sample Type	Time

Additional Sampling Notes:
Time End:

Risk Level 3 ***Receiving Water Sampling Field Log Sheets***		
Construction Site Name:	Date:	Time Start:
Sampler:		
Receiving Water Description and Observations		
Receiving Water Name/ID:		
Observations:		
Odors Yes ☐ No ☐		
Floating material Yes ☐ No ☐		
Suspended Material Yes ☐ No ☐		
Sheen Yes ☐ No ☐		
Discolorations Yes ☐ No ☐		
Turbidity Yes ☐ No ☐		
Field Meter Calibration		
pH Meter ID No./Desc.: Calibration Date/Time:	Turbidity Meter ID No./Desc.: Calibration Date/Time:	

Field pH and Turbidity Measurements			
Upstream Location			
Type	Result	Time	Notes
pH			
Turbidity			
Downstream Location			
Type	Result	Time	Notes
pH			
Turbidity			
Additional Sampling Notes:			
Time End:			

NAL Exceedance Evaluation Summary Report	Page __ of __
Project Name	
Project WDID	
Project Location	
Date of Exceedance	
Type of Exceedance	**NAL ☐ pH ☐ Turbidity** **☐ Other (specify) _____**
Measurement or Analytical Method	**☐ Field meter** **(Sensitivity: _____)** **☐ Lab method (specify) _____** **(Minimum Level: _____)** **(MDL: _____)**
Calculated Daily Average	**☐ pH _____ pH units** **☐ Turbidity _____ NTU**
Rain Gauge Measurement	**_____ inches**
Visual Observations on Day of Exceedance	

NAL Exceedance Evaluation Summary Report	Page __ of __
Description of BMPs in Place at Time of Event	
Initial Assessment of Cause	
Corrective Actions Taken (deployed after exceedance)	
Additional Corrective Actions Proposed	
Report Completed By	_____ **(Print Name, Title)**
Signature	_____

CHAIN-OF-CUSTODY **DATE:** **Lab ID:**

DESTINATION LAB: ATTN: **ADDRESS:** **Office Phone:** **Cell Phone:**							REQUESTED ANALYSIS				Notes:
SAMPLED BY:											
Contact:											
Project Name											
Client Sample ID	**Sample Date**	**Sample Time**	**Sample Matrix**	**Container #**	**Container Type**	**Container Pres.**					

SENDER COMMENTS:	**RELINQUISHED BY**	
	Signature:	
	Print:	
	Company:	
	Date:	TIME:
LABORATORY COMMENTS:	**RECEIVED BY**	
	Signature:	
	Print:	
	Company:	
	Date:	TIME:

Appendix P: Field Meter Instructions

Appendix Q: Supplemental Information

Appendix R: Active Treatment System and Passive Treatment Plans

Appendix S: Construction General Permit

Copies of the Construction Stormwater General Permit may be downloaded from the State Water Board website at:

http://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.shtml.

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

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San Joaquin Valley Air Pollution Control District
Regulation VIII – Fugitive PM10 Prohibitions

Construction Notification

Pursuant to section 6.4 of **District Rule 8021 – *Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities***, the owner or operator of a construction project of at least 1.0 acre in size shall provide written notification to the District at least 48 hours prior to his/her intent to commence any earthmoving activities. Use the first two pages of this form to submit a written Construction Notification. There are no fees for filing a construction notification.

Larger construction projects, as outlined below, may be required to submit a full Dust Control Plan. If a Dust Control Plan is required the owner/operator does not need to submit a separate construction notification.

Dust Control Plan

Pursuant to section 6.3 of **Rule 8021 – *Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities***, the owner or operator shall submit a Dust Control Plan to the District for a construction project that will involve any of the following:

- Residential developments that will include ten acres or more of disturbed surface area, or
- Non-residential developments that will include five acres or more of disturbed surface area, or
- Will include moving, depositing, or relocating more than 2,500 cubic yards per day of bulk materials on at least three days of the project.

A Dust Control Plan identifies the fugitive dust sources at the construction site and describes all of the dust control measures to be implemented before, during, and after any dust generating activity for the duration of the project. The District will review and approve, conditionally approve, or disapprove the Dust Control Plan within 30 days of submittal. **Construction activities shall not commence until the Dust Control Plan has been approved or conditionally approved by the District.** A copy of the approved Dust Control Plan must be retained at the project site and made available upon request by a District inspector.

At least one key individual representing the owner or operator, or any person who prepares a Dust Control Plan must complete a Dust Control Training Course presented by the District. Please contact the District to find out when courses are being offered.

Pursuant to **District Rule 3135 – *Dust Control Plan Fee***, payment must accompany each Dust Control Plan submitted to the District. A separate fee is charged for any major modification made to an approved plan, such as modifying the size and scope of the project or making significant changes to the types of control or preventative measures. No fees are charged for administrative changes to an approved plan.

Regardless of whether a Construction Notification or Dust Control Plan is required, the owner or operator of any construction project shall comply with all other applicable requirements of Regulation VIII, and other District Rules.

Construction Notifications and Dust Control Plans should be submitted to the District's Compliance Division via mail or email to the applicable District Office:

San Joaquin, Stanislaus, Merced Counties	*Madera, Fresno, Kings Counties*	*Tulare, Kern Counties*
Northern Region Office 4800 Enterprise Way Modesto, CA 95356 (209) 557-6400 Fax: (209) 557-6475 DCP.North@valleyair.org	**Central Region Office** 1990 East Gettysburg Avenue Fresno, CA 93726 (559) 230-5950 Fax: (559) 230-6062 DCP.Central@valleyair.org	**Southern Region Office** 34946 Flyover Court Bakersfield, CA 93308 (661) 392-5500 Fax: (661) 392-5585 DCP.South@valleyair.org

Section 1 – General Information – Page 1

☐ **Construction Notification** (Complete section 1) ☒ **Dust Control Plan** (Complete sections 1-7) ☐ **Administrative Revision** (no changes to project scope or mitigation measures.) ☐ **Plan Modification** (modification of project scope and/or mitigation measures. *Fee required*.)	Date Received: *(For District Use)*

1-A Project Name and Location

Project Name: New Temperance Elementary School

Project Address: 1345 South Temperance Avenue

Major X-Streets: South Temperance Avenue & East Church Avenue

City: Fresno County: Fresno

GPS Coordinate(s): 36.716955, -119.665577

Expected Construction Start Date: January 6, 2027 End Date: September 1, 2028

1-B Project Details

This project is: ☐ Residential ☒ Non-Residential (commercial, industrial, institutional, public, etc.)

Total project site area: 18 Acres

Total disturbed surface area: 18 Acres

Total disturbed areas that will be left inactive for more than seven days: 5 Acres

Maximum daily volume of earthmoving: 2,500 Cubic Yards

Average daily volume of earthmoving: 2,500 Cubic Yards

1-C Provide a brief description of the project's operations.

Sanger Unified School District will be developing an Elementary school on approximately 18 acres. This includes but is not limited to grading, tranching, verticle construction ect.

1-D Indirect Source Review (ISR) (Rule 9510)

Air impact Assessment (AIA) application submitted to the District? ☒ Yes ☐ No

If yes, ISR Project ID #: TBD

For more information regarding ISR, please visit https://www.valleyair.org/permitting/indirect-source-review-rule-overview/ or contact the District's Technical Services team at (559) 230-6000.

Section 1 – General Information – Page 2

Project Name: New Temperance Elementary School New Temperance Elementary School

1-E Contacts

Property Owner: Sanger Unified School District
Address: 1905 7th St
City: Sanger State: CA Zip: 93657
Phone: (559) 875-6521 Fax:
Mobile: Email:

Developer: Sanger Unified School District
Address: 1905 7th St
City: Sanger State: CA Zip: 93657
Contact Person:
Phone: Fax:
Mobile: Email:

General Contractor: TBD once contract is awarded
Address:
City: State: Zip:
Contact Person:
Phone: Fax:
Mobile: Email:

Other Contact:
Company:
Address:
City: State: Zip:
Phone: Fax:
Mobile: Email:

STOP HERE FOR CONSTRUCTION NOTIFICATION ONLY

Section 2 – Dust Control Plan Implementation – Page 1

Project Name: New Temperance Elementary School

2-A This Dust Control Plan was prepared by:

Name: Brooke Whittington Title: Assistant Associate Engineer

Company Name: QK, Inc.

Address: 601 Pollasky Ave Suite 301

City: Clovis State: CA Zip: 93612

Phone: (559) 449-2400 Fax:

Mobile: (559) 770-7740 Email: brooke.whittington@QKinc.com

Date training completed: November 5, 2026 ☐ Copy of course certificate attached.

2-B Contractors

Provide the names, addresses, and phone numbers of the contractors involved in dust generating activities **or** performing dust control as part of this project (Rule 8021 Sec. 6.3.6.1). A supplemental list may be attached.

1. TBD once contract is awarded
2.
3.
4.

2-C Who will have the primary responsibility for implementing this Dust Control Plan?

(Rule 8021 Sec 6.3.6.1)

☐ Property Owner ☐ Developer ☒ General / Prime Contractor

☐ Sub-Contractor(s) ☐ Other:

Primary Project Contact: TBD once contract is awarded

Title:

Company Name:

Address:

City: State: Zip:

On-Site Phone: Fax:

Mobile: Email:

Date training completed: ☐ Attach a copy of the course certificate

Section 2 – Dust Control Plan Implementation – Page 2

Project Name: New Temperance Elementary School New Temperance Elementary School

2-D Dust Generating Activity Dates

The expected start and completion dates of **dust generating activities and soil disturbance activities** to be performed on site. For phased projects, it may be necessary to report expected start and completion dates separately. (Rule 8021 Sec. 6.3.6.4)

Expected start date:	January 6, 2027	End Date:	September 1, 2028
Phase Project Start – A:		Completion – A:	
Phase Project Start – B:		Completion – B:	
Phase Project Start – C:		Completion – C:	

2-E Other Locations

Identify whether any other locations should be included with this plan that are involved with this project. An example may include listing any site where bulk materials will be imported from or exported to. This does not need to include quarries or retailers of building materials. (Rule 8021 Sec. 6.3.2)

☒ No other locations are included with this project.

Location 1: _____

☐ No Dust Control Plan Required ☐ Included with this plan ☐ Included with another plan

Location 2: _____

☐ No Dust Control Plan Required ☐ Included with this plan ☐ Included with another plan

Location 3: _____

☐ No Dust Control Plan Required ☐ Included with this plan ☐ Included with another plan

Section 3 – Fugitive PM10 Sources – Page 1

Project Name: New Temperance Elementary School

3-A Sources of Fugitive Dust

This section describes the minimum requirements for limiting visible dust emissions from activities that cause fugitive dust emissions. (Rule 8021 Sec. 6.3.6.5) **Check at least one box under each category**.

Structural Demolition. (Rule 8021 Sec. 5.1, 6.3.3, & 6.3.6.5)

- ☒ No demolitions are planned for this project.
- ☐ Asbestos NESHAP notification and fees will be submitted to the District. (Rule 3050 and Rule 4002)
  Water will be applied to the following areas for the duration of the demolition activities:
  - Building exterior surfaces;
  - Unpaved surface areas where equipment will operate;
  - Razed building materials; and
  - Water or dust suppressants will be applied to unpaved surface areas within 100 feet of structure during demolition.

Pre-Activity (Rule 8021 Sec. 5.2)

- ☐ Not applicable for this project (Please explain why in Section 3-C).
- ☒ The site will be pre-watered and work will be phased to reduce the amount of disturbed surface area at any one time (Complete Section 4-A).

Active Operations (Rule 8021 Sec. 5.2)

- ☒ Water will be applied to dry areas during leveling, grading, trenching, and earthmoving activities (Complete Section 4-A).
- ☐ Wind barriers will be constructed and maintained, and water or dust suppressants will be applied to the disturbed surface areas (Complete Sections 4-A or 4-B, and 4-C).

Inactive Operations, Including After Work Hours, Weekends, and Holidays (Rule 8021 Sec. 5.2)

- ☐ Not applicable for this project (Please explain why in Section 3-C).
- ☒ Water or dust suppressants will be applied on disturbed surface areas to form a visible crust, and vehicle access will be restricted to maintain the visible crust. (Complete Section 4-A or 4-B, and 4-C)

Temporary stabilization of areas that remain unused for seven or more days (Rule 8021 Sec. 5.2)

- ☐ Not applicable for this project (Please explain why in Section 3-C)
- ☒ Vehicular access will be restricted and water or dust suppressants will be applied and maintained at all un-vegetated areas (Complete Section 4-A or 4-B, and 4-C).
- ☐ Vegetation will be established on all previously disturbed areas (Complete Section 4-C).
- ☐ Gravel will be applied and maintained at all previously disturbed areas (Complete Section 4-C).
- ☐ Previously disturbed areas will be paved (Complete Section 4-C).

Unpaved Access and Haul Roads, Traffic and Equipment Storage Areas (Rule 8021 Sec. 5.2 and 5.3)

- ☐ Not applicable for this project (Please explain why in Section 3-C)
- ☒ Apply water or dust suppressants to unpaved haul and access roads (Complete Section 4-A or 4-B)
- ☐ Post speed limit signs of not more than 15 miles per hour at each entrance, and again every 500 feet. (Complete Section 4-C)
- ☐ Water or dust suppressants will be applied to vehicle traffic and equipment storage areas (Complete Section 4-A or 4-B).

Wind Events (Rule 8021 Sec. 5.4)

- ☒ Water application equipment will apply water to control fugitive dust during wind events, unless unsafe to do so. Outdoor construction activities that disturb the soil will cease whenever visible dust emissions cannot be effectively controlled.

Section 3 – Fugitive PM10 Sources – Page 2

Project Name: New Temperance Elementary School New Temperance Elementary School

3-B Bulk Materials (Rule 8021 Sec. 6.3.6.6 and Rule 8031)

Outdoor Handling of Bulk Materials (Rule 8031 Sec. 5.0 A)

- ☐ No bulk materials will be handled during this project.
- ☒ Water or dust suppressants will be applied when handling bulk materials.
- ☐ Wind barriers with less than 50 percent porosity will be installed and maintained, and water or dust suppressants will be applied.

Outdoor Storage of Bulk Materials (Rule 8031 Sec. 5.0 B)

- ☐ No bulk materials will be stored during this project.
- ☒ Water or dust suppressants will be applied to storage piles.
- ☒ Storage piles will be covered with tarps, plastic, or other suitable material and anchored in such a manner that prevents the cover from being removed by wind action.
- ☐ Wind barriers with less than 50 percent porosity will be installed and maintained around the storage piles, and water or dust suppressants will be applied.
- ☐ A three-sided structure (< 50% porosity) will be used that is at least as high as the storage piles.

On-Site Transporting of Bulk Materials (Rule 8031 Sec. 5.0 C)

- ☐ No bulk materials will be transported on the project site.
- ☐ Vehicle speed will be limited on the work site.
- ☒ All haul trucks will be loaded such that the freeboard is not less than six inches when transported across any paved public access road.
- ☒ A sufficient amount of water will be applied to the top of the load to limit visible dust emissions.
- ☐ Haul trucks will be covered with a tarp or other suitable cover.

Off-Site Transporting of Bulk Materials (Rule 8031 Sec. 5.0 D)

- ☐ No bulk materials will be transported to or from the project site.
- ☒ Measures in section 5-B will be implemented to prevent haul trucks from becoming a source of visible emissions or carryout onto public roads. (complete Section 5-B)

Outdoor Transport using a Chute or Conveyor (Rule 8031 Sec. 5.0 E)

- ☒ No chutes or conveyors will be used.
- ☐ Chute or conveyor will be fully enclosed.
- ☐ Water spray equipment will be used to sufficiently wet the materials.
- ☐ Transported materials will be washed or screened to remove fines (PM10 or smaller).

3-C Comments

Proper watering procedures will be adhered to during all activities that cause dust emissions for the duration of the project. If watering cannot adhere a 20% opacity (at a minimum), all dust activity will cease. Material for project will be imported from

Section 4 – Dust Control Methods – Page 1

Project Name: New Temperance Elementary School New Temperance Elementary School

4-A Water Application

Complete this section if water application will be used as a control method for limiting visible dust emissions and stabilizing surface areas. Check and answer everything that applies to this project.
(Rule 8021 Sec. 6.3.6.6)

Water Application Equipment:

☐ Sprinklers: Describe the activities that will utilize sprinklers:

Minimum treated area: _____ ☐ Square Feet ☐ Acres

Maximum treated area: _____ ☐ Square Feet ☐ Acres

Minimum water flow rate: _____ Gallons/minute Duration: _____

☒ Water Truck, ☐ Water Trailer, ☐ Water Wagon, ☐ Other: _____

Describe the activities that will utilize this equipment:

Earthwork transport; Dust Control for disturbed surfaces; storage piles etc.

Number of application equipment available: 2

Application equipment capacity: 2,500 -3,500 gallons

Application frequency (on a typical dry day): Twice a day at a minimum

Application rate: ☒ 650 gallons per acre ☐ _____ gallons per acre (Greater than 650)

Hours of operation: 7:00 to 5:00 ☐ Daily ☒ Mon-Fri ☐ Other: _____

Water application equipment is available to operate after normal working hours, on weekends, and holidays.

After-hours contact: TBD once contract is awarded Phone No.: _____

After-hours contact: _____ Phone No.: _____

Water Supply: *Include the relative locations of these sources on the plot plan in Section 6.*

☒ Fire hydrants Number of hydrants available On-Site: _____ Off-Site: 2

☐ Storage tanks Number and capacity: _____

☐ Wells Number and flow rate: _____

☐ Canal, River, Pond, Lake, etc. Describe: _____

☐ Other: _____

Approval granted by the owner or public agency to use their water source for this project.

Owner or Agency: City of Sanger

Contact: Customer Service Phone No.: 559-876-6300

Section 4 – Dust Control Methods – Page 2

Project Name: New Temperance Elementary School

4-B Dust Suppressant Products

Complete this section if a dust suppressant product will be used. These materials include, but are not limited to: hygroscopic suppressants (road salts), adhesives, petroleum emulsions, polymer emulsions, and bituminous materials (road oils). (Rule 8021 Sec. 6.3.6.6)

Copy this page if more than one dust suppressant product will be used.

☒ **Not Applicable.** No dust suppressant products will be used. **Skip to 4-C.**

Application Area: _____

Product Name: _____

Contractor's Name: _____ Phone No: _____

Application Rate: _____ Gallons of undiluted material per ☐ mile or ☐ acre treated.

Application Frequency: _____ Applications per ☐ week, ☐ month, ☐ year

Application Equipment: _____

Number of Application Equipment Available: _____

Application Equipment Capacity: _____

Attach each of the following information that fully describes this product. Use the checklist below to make sure all information is submitted with this plan.

- ☐ Product Specifications (MSDS, Product Safety Data Sheet, etc.)
- ☐ Manufacturer's Usage Instructions (method, frequency, and intensity of application)
- ☐ Environmental impacts and approvals or certifications related to the appropriate and safe use for ground application.

Section 4 – Dust Control Methods – Page 3

Project Name: New Temperance Elementary School New Temperance Elementary School

4-C Other Dust Control Methods

Check below the other types of dust control methods that will be employed at the construction site.
(Rule 8021 Sec. 5.2)

- ☒ Restricting unauthorized vehicle access:
  - ☒ Fences ☐ Gates ☐ Posts ☐ Berms ☐ Concrete Barriers ☐ Signs
  - ☐ Other: _____
- ☐ Wind barriers Describe: _____
- ☒ Posted speed limit signs that meet State and Federal Department of Transportation standards.
  (Rule 8021 Sec. 5.3)
  - ☒ Posted at 15 miles per hour ☐ Posted at _____ miles per hour (less than 15 MPH)
- ☐ Re-establish vegetation for temporarily stabilizing previously disturbed surfaces.
  Explain: _____
- ☐ Apply and maintain gravel:
  - ☐ On haul roads ☐ On access roads ☐ At equipment storage yards
  - ☐ At vehicle traffic areas ☐ For temporarily stabilizing previously disturbed areas.
  Explain: _____
- ☐ Apply pavement:
  Explain: _____
- ☐ Other: _____

4-D Contingencies

Contingencies to be implemented should the listed control measures fail to meet the stability and visible emission requirements. Examples include, but are not limited to: replacement equipment, additional equipment, increased water application, additional water resources, adding chemical/organic dust suppressants, restricting access, and additional staffing. Attach any additional information if needed.
(Rule 4102 and Rule 8021 Sec. 5.2)

The contractor has the capacity to rent supplemental equipment if the onsite equipment fails to operate or on any similar situations. Also, the contractor has the responsibility to make sure there is extra qualified personnel onsite in case the primary personnel operating the equipment will be unavailable. If dust emissions become uncontrollable, work will cease until they are brought back to compliance.

4-E Record Keeping (Rule 8011 Sec. 6.2)

Records and any other supporting documents for demonstrating compliance must be maintained, but only for those days when a control measure is implemented. The District has developed record keeping forms that may be used for complying with this requirement. Check one or both below:

- ☒ Records will be maintained using the forms developed by the District.
- ☐ Records will be maintained using documents or forms developed by the owner or operator.
  Explain and include copies: _____

Section 5 – Carryout and Trackout – Page 1

Project Name: New Temperance Elementary School New Temperance Elementary School

5-A Treatments for Preventing Trackout

Select the control devices that will be used for preventing trackout from occurring onto paved public roads. Trackout is any material that adheres to vehicle tires and is deposited onto a paved public road or the paved shoulder of a paved public road. Check one or a combination that will apply to this project.

☐ **Grizzly:** Rails, pipes, or grates used to dislodge debris off of vehicles before exiting the site. Extends from the intersection with the paved public road surface for the full width of the unpaved exit surface for a distance of at least 25 feet. (Rule 8041 Sec. 5.9.1)

Width: _____ Feet Length: _____ Feet

☒ **Gravel Pad:** A layer of washed gravel at least one (1) inch or larger in diameter, three (3) inches deep, and extends from the intersection with the public paved road surface for the full width of the unpaved exit surface for a distance of at least 50 feet. (Rule 8041 Sec. 5.9.2)

Width: **20** Feet Length: **50** Feet Depth: **3** Inches

Gravel Size: **3** Inches Clean-up Frequency: **Once a Week**

☐ **Paved Surface:** Extends from the intersection with the paved public road surface for the full width of the unpaved access road for at least 100 feet to allow mud and dirt to drop off of vehicles before exiting the site. (Rule 8041 Sec. 5.9.3)

Width: _____ Feet Length: _____ Feet

Mud and dirt deposits accumulating on paved interior roads used for trackout control will be removed with sufficient frequency, but not less frequently than once per workday. Cleanup will commence within ½ hour of generating any carryout and trackout onto public roads. (Rule 8041 Sec. 5.8.2 and 5.9.3)

Clean-up Frequency: _____

☐ **Wheel Washer:** Uses water to dislodge debris from tires and vehicle undercarriage. (Rule 8011 Sec. 3.73)

Describe: _____

☒ **Other:** (Rule 8041 Sec. 5.8.1.2) Access roads/street improvements will be paved upon completion of grading

5-B Treatments for Preventing Carryout

Report the required treatments that will be used for preventing carryout from occurring on paved public roads. Carryout occurs when materials from emptied or loaded haul trucks, vehicles, or trailers falls onto a paved public road or paved shoulder of a paved public road. (Rule 8031 Sec 5.0)

☐ No haul trucks will be routinely entering or leaving the project site.

☒ Spillage or loss of bulk materials from holes or other openings in the cargo compartment's floor, sides, and tailgates will be prevented when material is transported onto any paved public access road.

Emptied Haul Trucks:

☐ Interior cargo compartments will be cleaned before leaving the project site.

☒ Cargo compartment will be covered with a tarp or suitable cover before leaving the project site.

Loaded Haul Trucks:

☒ Haul trucks will be loaded such that the freeboard is not less than six inches with water applied to the top of the load before leaving the project site.

☐ Cargo compartment and load will be covered with a tarp or suitable cover before leaving the project site.

☐ **Other:** _____

Section 5 – Carryout and Trackout – Page 2

Project Name: New Temperance Elementary School New Temperance Elementary School

5-C Cleaning up Carryout and Trackout

Check and report below the methods and frequency for cleaning up carryout and trackout from the surface and paved shoulders of paved public roads.

The use of blower devices, or dry rotary brushers or brooms, for removal of carryout and trackout from paved public roads is prohibited. (Rule 8041 Sec. 5.0)

Projects subject to a dust control plan are required to prevent and mitigate carryout and trackout beyond the minimum cleanup requirements. (Rule 8041 Sec. 5.3)

Cleanup Frequency:

☒ In the event the control device becomes insufficient to prevent carryout and trackout, removal of any carryout and trackout must be accomplished within one-half hour of the generation of such carryout and trackout. (Rule 8041 Sec. 5.8.2.)

Cleanup Method: Check the method below that will be used for cleaning carryout and trackout.

☒ Manually sweeping and picking up. (Rule 8041 Sec. 5.7.1)

☐ Mechanical sweeping with a rotary brush or broom accompanied or preceded by water. (Rule 8041 Sec. 5.7.2)

Describe the types of equipment that will used:

_____

☐ Operating a PM10-efficient street sweeper. (Rule 8041 Sec. 5.7.3)

Make and Model: _____

☐ Flushing with water: allowed if: (Rule 8041 Sec. 5.7.4)

- No curbs or gutters are present.
- Using water will not result as a source of trackout and carryout.
- Using water will not result in adverse impacts on storm water drainage systems.
- Using water will not violate any National Pollutant Discharge Elimination System permit program.

5-D Record keeping for Cleanup of Carryout and Trackout (Rule 8011 Sec. 6.2)

Records and any other supporting documents for demonstrating compliance must be maintained. The District has developed a record keeping form specific for cleaning carryout and trackout from paved public roads and may be used for complying with this requirement. Check one or both below:

☒ Records will be maintained using the form developed by the District.

☐ Records will be maintained using documents or forms developed by the owner or operator.

Explain and include copies: _____

Section 6 – Plot Plan

Project Name: New Temperance Elementary School New Temperance Elementary School

6-A Plot Plan

A plot plan identifies the type and location of each project. Attach appropriately sized maps with the project boundaries outlined or use the space in section 6-B to draw a plot plan. Attached maps may include tract maps, site maps, and topographic maps. Use the checklist below to make sure all areas have been identified on the plot plan. (Rule 8021 Sec. 6.3.6.2 & 6.3.6.5)

Identify the relative locations of actual and potential sources of fugitive dust emissions.

- ☒ Bulk material handling and storage areas.
- ☒ Paved and unpaved access roads, haul roads, traffic areas, and equipment storage yards.
- ☒ Exit points where carryout and trackout onto paved public roads may occur.
- ☒ Water supply locations if water application will be used for controlling visible dust emissions.

Identify the relative locations of sensitive receptors within ¼ mile of the project. (Rule 4102 Sec. 4.1)

- ☐ No sensitive receptors within ¼ mile of the project.
- ☒ Residential areas, schools, day care, churches, hospitals, nursing facilities, commercial, retail, etc.
- ☒ Freeways, roads, or traffic areas that may be affected by the dust generating activities.
- ☐ Other: _____

6-B Draw Plot Plan (if one is not attached)

May use the back of this form
Include a North Arrow

☒ Plot plan is attached (Skip to Section 7).

Section 7 – Certification

Project Name: New Temperance Elementary School

7-A Certification

The owner, principle operator, or the individual implementing must certify the plan. (Rule 8021 Sec 6.3). For Title V sources, the responsible official must provide the certification. (Rule 2520 Sec. 3.28 and 10.0).

I certify that all information contained herein and information submitted in the attachments to this documents are true and correct.

TBD once contract is awarded
Print Name

Title

Signature

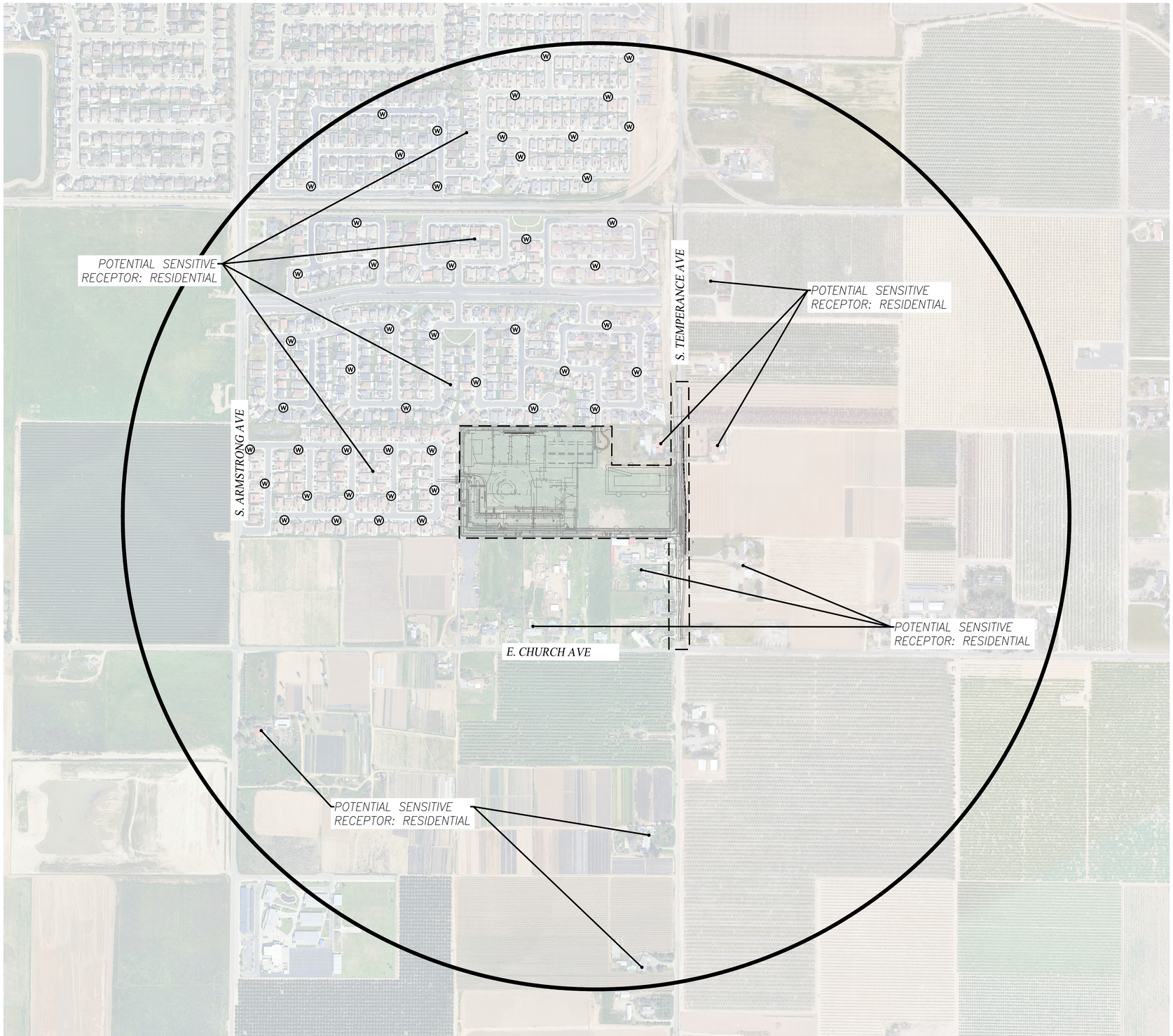
Date

Phone Number

Fax Number

Cell Number

E-Mail Address



N

LEGEND

- PROJECT BOUNDARY
- 1/4 MILE BUFFER
- STABILIZED CONSTRUCTION ENTRANCE/EXIT
- STAGING AREA
- WATER SOURCE LOCATION

J:\PROJECTS\2025\250125\DESIGN\ENGINEERING\EXHIBITS\DUST CONTROL PLAN\250125 DUST CONTROL PLAN.DWG 5/15/2026 8:38 AM

PROJECT NO.: 250125
DRAWN BY: BV
QA/QC BY: TT
SCALE: 1"=300'
SHEET NO.: 1 OF 1

NEW TEMPERANCE ELEMENTARY SCHOOL

DUST CONTROL PLAN

QK
901 EAST MAIN STREET
VISALIA, CA 93292
TEL: (559) 733-0440
WWW.QKINC.COM
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OWNER

SANGER UNIFIED SCHOOL DISTRICT
1905 SEVENTH STREET
SANGER, CA 93657

PREPARED BY

QK, INC.
609 NORTH IRWIN STREET
HANFORD, CA 93230
(559) 582-1056

SITE ADDRESS

1345 S. TEMPERANCE AVE,
SANGER, CA

ASSESSOR'S PARCEL NUMBER:

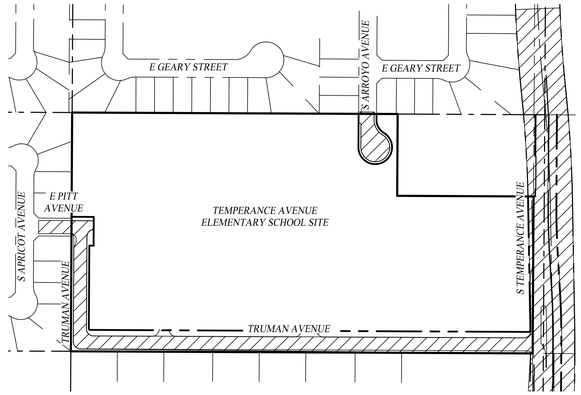
316-160-71, 316-160-72T, AND 316-160-46T

BENCHMARK

FRESNO COUNTY BENCHMARK LG1, A FRESNO COUNTY BRASS CAP AT THE INTERSECITON OF AMERICAN AVENUE AND PLACER AVENUE, 27.3' SOUTHEAST OF A GUY POLE, 1.0' EAST OF A POWER POLE. HAS AN NGVD29 ELEVATION OF 172.408 FEET PER COUNTY OF FRESNO BENCHMARK RECORDS.

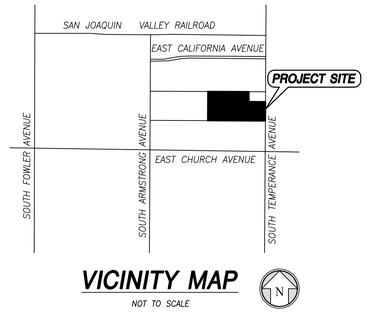
BASIS OF BEARINGS AND COORDINATES

THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 6. TOWNSHIP 15 SOUTH. RANGE 17 EAST, M.D.B&M, HAS A WGS84 BEARING OF N8956'31" E PER GPS OBSERVATIONS. COORDINATE SYSTEM IS LOCAL, NO PROJECTION, NO DATUM.



OVERALL PROJECT MAP

SCALE: 1"=200'



VICINITY MAP

NOT TO SCALE

SEWER AND WATER GENERAL NOTES:

1. THE WORK EMBRACED HEREIN SHALL BE DONE IN ACCORDANCE WITH THE APPROPRIATE PROVISIONS OF THE SPECIFICATIONS ENTITLED CITY OF FRESNO, STANDARD SPECIFICATIONS, DEPARTMENT OF PUBLIC WORKS, LATEST EDITION, AND ANY AMENDMENTS THERETO, INSOFAR AS THE SAME MAY APPLY, WHICH SPECIFICATION HEREINAFTER ARE REFERRED TO AS THE STANDARD SPECIFICATION.
2. INITIAL COMPACTION TESTS REQUIRED BY THE CITY SHALL BE PAID FOR BY THE DEVELOPER. ANY RETESTS REQUIRED BY THE CITY SHALL BE PAID FOR BY THE CONTRACTOR.
3. ATTENTION OF THE CONTRACTOR IS DIRECTED TO THE REQUIREMENTS OF THE CONSTRUCTION SAFETY ORDER, ISSUED BY THE DIVISION OF INDUSTRIAL SAFETY, FOR TRENCHES AND EXCAVATION. THE CONTRACTOR SHALL COMPLY WITH THE CALIFORNIA CODE OF REGULATION, SECTION 64572 TITLE 22, REGARDING REQUIRED SEPARATION BETWEEN WATER MAINS AND SANITARY SEWER.
4. TRENCH BACKFILL AND SURFACE RESTORATION SHALL CONFORM TO THE CITY OF FRESNO STANDARD AND FRESNO CITY STREET WORK PERMIT. BACKFILL SHALL BE 95% RELATIVE COMPACTION OF THE TOP TWO FEET FROM FINISH GRADE. ANY SEWER CUT IN EXISTING PAVEMENT SHALL REQUIRE IMMEDIATE TEMPORARY TRENCH RESURFACING. ANY EXISTING STREETS CUT FOR THE INSTALLATION OF SEWER AND WATER SERVICES SHALL RECEIVE A 1 INCH OVERLAY IN ADDITION TO THE REQUIREMENTS OF PUBLIC WORKS STANDARD DRAWING P-48.
5. SEWER NOTES:
   ALL WORK SHALL BE DONE IN ACCORDANCE WITH CITY OF FRESNO, STANDARD SPECIFICATIONS, DEPARTMENT OF PUBLIC WORKS, LATEST EDITION AND ANY AMENDMENT THERETO, WITH THE FOLLOWING:
   a. TRENCH BACKFILL SHALL HAVE A RELATIVE COMPACTION OF 90% TO WITHIN 24 INCHES OF FINISH GRADE AND THE TOP 24 INCHES SHALL BE 95%.
   b. HOUSE BRANCH LOCATION SHALL BE MARKED BY STAMPING AN "S" SYMBOL ON THE FACE OF THE CONCRETE CURB.
6. SEWER PIPE MAY BE SDR 35 PVC SOLID WALL PLASTIC SEWER PIPE, EXTRA STRENGTH VITRIFIED CLAY PIPE, COMPRESSION JOINT, WEDGE-LOCK, SPEED SEAL, AND PVC LINED DUCTILE IRON PIPE, OR APPROVED EQUAL. BAND SEAL IS ACCEPTABLE ONLY WITH PLASTIC SLEEVES AT ALL JOINTS 6 INCH AND LARGER.
7. USE OF ANY OTHER TYPE OF PIPE OR FITTINGS SHALL REQUIRE THE WRITTEN APPROVAL OF THE CITY ENGINEER PRIOR TO INSTALLATION.
8. SDR 35 PVC SOLID WALL PLASTIC SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH PUBLIC WORKS STANDARD DRAWING S-10.
9. AIR TEST OF THE SEWER MAINS AND HOUSE SERVICES SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER OF UNIBELL PLASTIC PIPE ASSOCIATION, AIR TESTING MANUAL. THE AIR TEST IS TO BE MADE ON THE PIPE INSTALLATION WITHOUT THE ADDITION OF SEALERS TO THE PIPE INTERIOR. THE APPLICATION OF MORTAR, EPOXY, CAULKING COMPOUNDS, OR OTHER MATERIAL TO THE PIPE WILL BE PROHIBITED. FAILURE TO MEET THE AIR TEST WILL REQUIRE THE CONTRACTOR TO REPLACE SECTIONS AS REQUIRED. THE CONTRACTOR MAY ELECT IN LIEU OF EXPOSING THE ENTIRE LINE, THE OPTION TO SELECT AN APPROVED PIPELINE PHOTOGRAPHIC CONTRACTOR TO DETERMINE DEFECTIVE PORTIONS OF THE PIPELINE, OR ISOLATE THE MAIN IN MINIMUM OF 5 FOOT SECTIONS, AND RETEST EACH SECTION UNTIL THE FAILURE IS LOCATED, AND THEN REPLACE AS NECESSARY. ALL COSTS, (INCLUDING PHOTOGRAPHER'S WORK ASSOCIATED WITH THE FINAL REPAIR WILL BE THE CONTRACTOR'S). AIR TEST IS TO BE PERFORMED UPON COMPLETION OF COMPACTION.
10. IN ADDITION TO AIR TEST, THE CITY OF FRESNO SHALL INSPECT THE SEWER INSTALLATION WITH A CLOSED CIRCUIT TELEVISION CAMERA. ANY BROKEN PIPE, SEPARATION OF JOINTS, OR ANY PIPE NOT LAID TO TRUE LINE AND GRADE, EXCEPT FOR THE VARIATIONS IN SECTIONS 17, PARAGRAPH 4 OF THE CITY STANDARD SPECIFICATIONS SHALL BE REPLACED. ALL COSTS ASSOCIATED WITH THE FINAL REPAIR WILL BE THE CONTRACTOR'S.
11. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ADEQUATE ACCESS TO THE MANHOLES AND A WATER SUPPLY TO FACILITATE FINAL CAMERA INSPECTION AND ONE INSPECTION AFTER REPAIRS ARE SUCCESSFULLY MADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CAMERA INSPECTIONS.
12. FINAL AIR TEST OF THE SEWER SYSTEM SHALL BE MADE AFTER ALL UNDERGROUND UTILITIES HAVE BEEN INSTALLED AND COMPACTED IN THE AREA. T.V. CAMERA CHECK OF THE SEWER SYSTEM SHALL BE MADE AFTER AIR TEST AND PRIOR TO PLACING OF FINAL PAVEMENT IN STREETS.
13. THE CONSTRUCTION OF SEWER MAINS SHALL COMMENCE AT THE LOWEST POINT OF THE SYSTEM (I.E. AT A MANHOLE OR AT THE END OF EXISTING MAIN). THE INSTALLATION OF SEWER MAINS SHALL ALWAYS PROCEED UPSTREAM IN ALL LOCATIONS.
14. SLOPE AND ALIGNMENT CONTROL SHALL BE MAINTAINED USING AN APPROVED LASER BEAM INSTRUMENT.
15. LOCATION AND FLOW LINE ELEVATIONS OF ALL HOUSE BRANCHES SHALL BE STAKED BY DEVELOPER'S ENGINEER PRIOR TO CONSTRUCTION.
16. SEWER AIR TEST, CAMERA CHECK AND WATER PRESSURE TEST SHALL BE MADE AFTER ALL UNDERGROUND UTILITIES ARE INSTALLED AND COMPACTED.
17. SEWER HOUSE BRANCHES SHALL BE CONSTRUCTED TO A FLOWLINE DEPTH OF 5 FEET BELOW PROPOSED FINISHED GRADE AT A POINT 10 FEET BEHIND PROPERTY LINES WHENEVER POSSIBLE. IN NO CASE SHALL THE FLOWLINE DEPTH BE LESS THAN 4.5 FEET, UNLESS APPROVED BY CONSTRUCTION MANAGEMENT. DROP SEWER HOUSE BRANCHES IN MANHOLES ARE NOT PERMITTED.
18. TRAFFIC REQUIREMENTS:
   a. ALL SIGNING, DETOURING AND BARRICADING SHALL CONFORM TO THE MANUAL OF TRAFFIC CONTROLS, LATEST EDITION, ISSUED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.
   b. ALL SIGNS SHALL BE REFLECTORIZED FOR NIGHT-TIME VISIBILITY.
   c. HIGH LEVEL WARNING DEVICES SHALL BE USED ON ALL APPROACHES TO THE CONSTRUCTION AREA.
   d. SPECIAL ATTENTION IS DIRECTED TO SECTIONS 7-10.1, 10.2 AND 10.3 OF THE CITY STANDARD SPECIFICATIONS.
   e. ONE TWELVE-FOOT DRIVING LANE MUST BE MAINTAINED IN EACH DIRECTION AT ALL TIMES.
   f. NO PUBLIC STREET SHALL BE CLOSED WITHOUT PRIOR APPROVAL FROM THE CITY TRAFFIC ENGINEER.
   g. STREET WORK PERMITS ISSUED TO ALLOW WORK IN THE PUBLIC RIGHT-OF-WAY SHALL BE REVOKED IF THE ABOVE REQUIREMENTS OF SUBPARAGRAPHS 18a THROUGH 18h ARE NOT STRINGENTLY COMPLIED WITH BY THE DEVELOPER'S FORCES DURING OFF-SITE STREET IMPROVEMENT CONSTRUCTION OPERATIONS. REVOKED PERMITS SHALL NOT BE RE-ISSUED UNTIL SUCH TIME AS THE PUBLIC WORKS DIRECTOR IS SATISFIED THAT THE DEVELOPER'S CONTRACTORS WILL PERFORM THEIR OPERATIONS IN COMPLIANCE WITH THE ABOVE REQUIREMENTS INCLUDING THE CONDITIONS OF THE STREET WORK PERMIT.
   h. THE CONTRACTOR SHALL MAINTAIN AT ALL TIMES A MINIMUM OF TWO TWELVE-FOOT WIDE TEMPORARILY PAVED TRAVEL LANES ALONG THE SEWER TRENCH FOR CONTINUOUS USE DURING CONSTRUCTION. IN LIEU OF THE ABOVE, THE CONTRACTOR MAY ELECT TO BACKFILL THE SEWER TRENCH AND PLACE TEMPORARY TRENCH PAVING FOR THE LENGTH OF THE TRENCH OPENED DURING EACH DAY'S WORK. CONTRACTORS SHALL PROVIDE ACCEPTABLE ACCESS AT ALL TIME TO PROPERTIES ALONG THE CONSTRUCTION ROUTE. ALL TEMPORARY SURFACING SHALL BE MAINTAINED IN A SMOOTH CONDITION UNTIL THE REQUIRED PERMANENT SURFACING CONFORMING TO PUBLIC WORKS STANDARD DRAWING P-48.
19. WATER NOTES:
   a. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF FRESNO, STANDARD SPECIFICATIONS, DEPARTMENT OF PUBLIC WORKS, LATEST EDITION, AND ANY AMENDMENT THERETO.
   b. FIRE HYDRANT AND VALVE SHALL BE INSTALLED PER PUBLIC WORKS STANDARD DRAWING W-3.
   c. ALL WORK SHOWN ON THESE PLANS SHALL BE INSPECTED BY THE CITY OF FRESNO. NOTIFY WATER SYSTEMS MANAGER AND CONSTRUCTION MANAGEMENT 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
   d. SANITARY SEWERS MUST BE COMPLETE BEFORE WATER MAIN CONSTRUCTION IS STARTED.
   e. WATER MAIN CONSTRUCTION MUST BE COMPLETE BEFORE P.G.&E. STARTS THE GAS AND ELECTRICAL UNDERGROUND INSTALLATION.
   f. MAXIMUM LENGTH OF RISER, TO BRING FIRE HYDRANTS TO GRADE, SHALL BE INSTALLED PER PUBLIC WORKS STANDARD DRAWING W-3.
   g. WATER SERVICES AND METER BOXES SHALL BE INSTALLED AS PER PUBLIC WORKS STANDARD DRAWINGS W-1 AND/OR W-2.
   h. PIPE RESTRAINT FITTINGS SHALL BE PROVIDED AT ALL TEES, CROSSES, REDUCERS, BENDS, CAPS, PLUGS, AND VALVES IN ACCORDANCE TO PUBLIC WORKS WITH THE CITY OF FRESNO, DEPARTMENT OF PUBLIC WORKS, STANDARD SPECIFICATIONS, LATEST EDITION.
   i. THE USE OF CONCRETE THRUST BLOCKS MAY BE APPROVED IN SPECIAL SITUATIONS, BUT WILL ONLY BE USED WHEN SPECIFICALLY APPROVED IN WRITING BY THE CITY ENGINEER.
20. POLYVINYL CHLORIDE (PVC) WATER MAIN IS TO BE INSTALLED IN ACCORDANCE WITH CITY OF FRESNO, DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWING W-29, LATEST EDITION.
21. TWO DAYS BEFORE EXCAVATION, CALL UNDERGROUND SERVICE ALERT TOLL FREE AT 811.
22. POT-HOLE WATER MAIN AT ALL CITY WET-TIE CONNECTION LOCATIONS TO FACILITATE WET-TIE CONNECTIONS TO LINE AND GRADE.
23. WATER SERVICES AND METER BOXES LOCATED WITHIN DRIVEWAY APPROACHES SHALL BE RELOCATED AT THE DEVELOPER'S EXPENSE.
24. TRACER WIRE SHALL BE INSTALLED ALONG ALL PVC WATER MAINS PER SECTION 22-3.3 OF CITY OF FRESNO STANDARD SPECIFICATIONS.
25. ALL REDUCED PRESSURE BACKFLOW ASSEMBLIES (I.E. RP DEVICES) SHALL BE TESTED AND APPROVED BY A CERTIFIED AWWA OR ABPA TESTER WITHIN 5 DAYS OF INSTALLATION. THE PROPERTY WILL NOT BE GIVEN OCCUPANCY UNTIL ALL OF THE RP DEVICES ARE TESTED AND DOCUMENTED WITH THE CITY OF FRESNO WATER DIVISION. A LIST OF CERTIFIED TESTERS CAN BE OBTAINED BY CALLING 559-621-5335. TEST RESULTS CAN BE SUBMITTED TO THE CITY OF FRESNO WEBSITE AT; WWW.FRESNO.GOV/GOVERNMENT/DEPARTMENTDIRECTORY/PUBLICUTILITIES/WATERMANAGEMENT/CONSERVATION/BACKFLOW OR BY FAX AT 559-498-1533.

CONSTRUCTION GENERAL NOTES:

1. ALL LABOR, MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THESE PLANS AND THE CURRENT VERSION OF ALL APPLICABLE LOCAL AND STATE CODES, ORDINANCES AND STANDARDS OR AS REQUIRED BY PERMITS FROM OTHER AGENCIES AND/OR UTILITY COMPANIES INVOLVED IN THE WORK.
2. THE TYPE, LOCATIONS AND SIZES OF EXISTING UNDERGROUND STRUCTURES AND UTILITIES HAVE BEEN LOCATED IN THE FIELD OR OBTAINED FROM AVAILABLE RECORDS, RESPONSIBLE DILIGENCE HAS BEEN EXERCISED IN LOCATING ALL LINES, BUT THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION NOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES ENCOUNTERED BUT NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR DETERMINING OR CONFIRMING THE EXACT LOCATIONS OF THESE FACILITIES AND PROTECTING SAME FROM DAMAGE. ALL UTILITY SERVICES AND FACILITIES DAMAGED OR BROKEN BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED IN ACCORDANCE WITH THE REQUIREMENTS OF SAID UTILITY.
3. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY AND ALL CONFLICTS BETWEEN THE CONTRACT DOCUMENT AND THE ACTUAL SITE CONDITIONS PRIOR TO COMMENCING WORK IN ANY GIVEN AREA AND ALLOW TIME FOR THE ENGINEER TO ISSUE RESOLUTION TO ANY DISCOVERED CONFLICT. THE CONTRACTOR SHALL CONTINUE WITH WORK IN OTHER AREAS OF THE PROJECT WITHOUT SUCH CONFLICTS UNTIL THE ENGINEER HAS ISSUED RESOLUTION BY CHANGE ORDER OR OTHER PROJECT APPROVED LINES OF COMMUNICATION.
4. UNAUTHORIZED CHANGES AND USES: THE ENGINEER PREPARING THESE PLANS SHALL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS BY OTHERS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER ANY PROPOSED MODIFICATIONS AND/OR CHANGES TO THE PLANS AND SPECIFICATIONS IN WRITING WITH SUFFICIENT DETAILED INFORMATION AND TIME TO ALLOW THE ENGINEER TO CONDUCT AN ANALYSIS OF THE PROPOSED CHANGE AND PREPARE A WRITTEN RESPONSE TO THE CONTRACTOR. APPROVED CHANGES AND/OR MODIFICATIONS TO THE PLANS AND SPECIFICATIONS SHALL BE ISSUED BY THE ENGINEER AS CHANGE ORDERS.
5. CONTRACTOR AGREES THAT THEY SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING HE SAFETY OF ALL PERSONS AND PROPERTY; THAT THE REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY WORK ON THIS PROJECT, EXCEPTING THE LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER/ENGINEER.
6. THESE PLANS ARE THE PROPERTY AND COPYRIGHT OF THE ENGINEER AND SHALL NOT BE USED ON ANY OTHER WORK EXCEPT BY WRITTEN AGREEMENT WITH THE ENGINEER.
7. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS AND FIELD DIMENSIONS SHALL BE VERIFIED AT THE PROJECT SITE. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE START OF ANY WORK.
8. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AT 811, A MINIMUM OF 2 WORKING DAYS PRIOR TO ANY EXCAVATION OR WORK WITHIN THE PROJECT AREA.

NOTE TO OWNER AND CONTRACTOR:

THIS PLAN HAS BEEN PREPARED WITH THE INTENT THAT QK WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF, HOWEVER ANOTHER ENGINEERING AND/OR SURVEYING FIRM SHOULD BE EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT THE FIRM OF QK WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF QK HAD PERFORMED THE STAKING WORK.

MONUMENT PRESERVATION NOTE:

CONTRACTOR TO COORDINATE WITH THE PROJECT ENGINEER/SURVEYOR FOR PRESERVATION AND/OR PERPETUATION OF ALL EXISTING SURVEY MONUMENTS WHICH CONTROL SUBDIVISIONS, TRACTS, PROPERTY, BOUNDARIES, STREETS, HIGHWAYS, OR OTHER RIGHT-OF-WAY EASEMENTS. CONTRACTOR SHALL PROVIDE A MINIMUM OF 10 WORKING DAYS NOTICE TO PROJECT ENGINEER/SURVEYOR PRIOR TO DISTURBANCE OR REMOVAL OF EXISTING MONUMENTS. PROJECT ENGINEER/SURVEYOR SHALL PROVIDE CORNER TIES AND FILE THE REQUIRED DOCUMENTATION WITH THE COUNTY SURVEYOR PURSUANT TO BUSINESS AND PROFESSIONS CODE SECTION 8771. CONTRACTOR SHALL CONSTRUCT THE REPLACEMENT MONUMENTATION PER CITY STANDARD OR AS APPROVED BY THE CITY ENGINEER/SURVEYOR AND CONTACT THE PROJECT ENGINEER/SURVEYOR FOR VERIFICATION.

ABBREVIATIONS:

AP	ANGLE POINT
AC	ASPHALTIC CONCRETE
BC	BEGIN CURVE
BW	BACK OF SIDEWALK
C	CONCRETE
CL	CENTERLINE
CNS	COMPACTED NATIVE SOIL
CR	PAVEMENT CROWN
DI	DROP INLET
DWY	DRIVEWAY
EC	END CURVE
EP	EDGE OF PAVEMENT
EX	EXISTING
FF	FINISHED FLOOR
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
G	GUTTER
GB	GRADE BREAK
INV	INVERT
L	LEFT
LF	LINEAL FEET
ME	MATCH EXISTING
NTS	NOT TO SCALE
OE	OVERHEAD ELECTRIC
OG	ORIGINAL GROUND
P	PAVEMENT
PCC	POINT OF COMPOUND CURVE
PI	POINT OF INTERSECTION
PIVC	POINT OF INTERSECTION OF VERTICAL CURVE
POC	POINT ON CURVE
POVC	POINT ON VERTICAL CURVE
PL	PROPERTY LINE
PP	POWER POLE
PRC	POINT OF REVERSE CURVE
PPUE	PLANTING AND PUBLIC UTILITY EASEMENT
R	RIGHT
R/W	RIGHT-OF-WAY
S=0.0000	SLOPE IN FOOT, PER FOOT
►	DIRECTION OF SLOPE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
S/W	SIDEWALK
TC	TOP OF CURB
T.B.R	TO BE REMOVED
U.N.O.	UNLESS NOTED OTHERWISE
VC	VALLEY GUTTER
W	WATER
000.00	PROPOSED ELEVATION
[000.00]	FUTURE ELEVATION
(000.00)	EXISTING ELEVATION

LEGEND:

- CONSTRUCT 48" SANITARY SEWER MANHOLE PER CITY STD. S-3 AND S-5A, UNLESS OTHERWISE NOTED
- PROPOSED STORM DRAIN INLET PER SEPARATE PLAN
- PROPOSED STORM DRAIN MANHOLE PER SEPARATE PLAN
- INSTALL TYPE 'B' BLOW-OFF PER CITY STD. W-10
- INSTALL GATE VALVE PER CITY STD. W-7 AND W-27
- INSTALL FIRE HYDRANT ASSEMBLY PER CITY STD. W-3 & W-37
- M WATER METER BY CITY, SIZE AS NOTED
- PROPOSED LANDSCAPE SLEEVE
- PROPOSED STREETLIGHT, PER SEPARATE PLAN
- EXISTING MANHOLE, SIZE AND TYPE AS NOTED
- EXISTING FIRE HYDRANT
- EXISTING WATER OR GAS VALVE, AS NOTED
- EXISTING STREETLIGHT
- EXISTING POWER OR TELEPHONE POLE
- EXISTING GUY WIRE AND POLE
- TEMPORARY BENCHMARK
- PROPOSED BLOCK WALL PER SEPARATE PLAN
- CENTERLINE
- SECTION LINE
- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- PUBLIC UTILITY EASEMENT
- LANDSCAPE EASEMENT
- PROPOSED SAWCUT
- (OE) EXISTING OVERHEAD ELECTRIC LINE
- (UE) EXISTING UNDERGROUND ELECTRIC
- EXISTING EDGE OF PAVEMENT
- EXISTING CURB AND GUTTER
- PROPOSED CURB AND GUTTER PER SEPARATE PLAN
- PROPOSED VALLEY GUTTER PER SEPARATE PLAN
- PROPOSED CONCRETE SIDEWALK PER SEPARATE PLAN
- PROPOSED CURB RAMP PER SEPARATE PLAN
- PROPOSED DRIVE APPROACH PER SEPARATE PLAN
- 8" SS PROPOSED SANITARY SEWER, SIZE AS NOTED
- 8" W PROPOSED WATER MAIN, SIZE AS NOTED
- 18" SD PROPOSED STORM DRAIN PIPE PER SEPARATE PLAN, SIZE AS NOTED
- (8" SS) EXISTING SANITARY SEWER, SIZE AS NOTED
- (8" W) EXISTING WATERLINE, SIZE AS NOTED
- (18" SD) EXISTING STORM DRAIN, SIZE AS NOTED

SHEET INDEX:

No.	SHEET TITLE:	DRAWING No:
1	COVER SHEET	XX-X-XXXXX
2	MASTER UTILITY PLAN	XX-X-XXXXX
3	S TEMPERANCE AVENUE PLAN AND PROFILE	XX-X-XXXXX
4	BRIDLE AVENUE 10+00 – 13+50 PLAN AND PROFILE	XX-X-XXXXX
5	TRUMAN AVENUE 10+00 – 16+50 PLAN AND PROFILE	XX-X-XXXXX
6	TRUMAN AVENUE 16+50 – 23+00 PLAN AND PROFILE	XX-X-XXXXX
7	E PITT AVENUE PLAN AND PROFILE	XX-X-XXXXX
8	S ARROYO AVENUE PLAN AND PROFILE	XX-X-XXXXX

FOR BID PURPOSES ONLY - NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY	APRVL

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

WARNING POWERLINES OVERHEAD

BY:

WWW.QKINC.COM
1-800-955-7599
BAKERSFIELD, CLOVIS, HANFORD, MERCED, PORTERVILLE, VISALIA

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REGISTERED PROFESSIONAL ENGINEER ALEX T. DWIGGINS DRAFT NO. 61523 CIVIL STATE OF CALIFORNIA

APPROVALS

CITY OF FRESNO, DEPT. OF PUBLIC UTILITIES — DATE

CITY OF FRESNO, FIRE DEPARTMENT — DATE

PLAN FEES

	$ AMOUNT	CASHIER MEMO NO.	DATE
INITIAL PLAN REVIEW FEE			
BALANCE OF PLAN REVIEW FEE			
INSPECTION FEE			
WET TIE CONN. CHARGE EST#			

UTILITIES INFRASTRUCTURE DATA

MILES OF SEWER MAIN	0.12
MILES OF WATER MAIN	0.51
MILES OF ABANDONED SEWER MAIN	0
MILES OF ABANDONED WATER MAIN	0

PW FILE NO. 2
PROJ. ID. 2
FUND. NO.
ORG. NO.
REF. & REV.

CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS

PLANS AND SPECIFICATIONS FOR SEWER AND WATER IMPROVEMENTS TEMPERANCE ELEMENTARY SCHOOL COVER SHEET

REVIEWED:
OFFICE ENG. _____ CITY ENG. _____
DR. BY: DM
CH. BY: _____
DATE: _____
SCALE: AS NOTED
SHEET NO. 1
OF 8 SHEETS
XXXX
XX-X-XXXXX

QK PROJECT 250125

L:\PROJECTS\2025\250125\ACAD\IMPROVEMENTS\SEWER & WATER IMPROVEMENT PLANS\250125-UTPP-CV.DWG 9/11/2026 2:52 PM

E GEARY STREET

E PITT AVENUE

E TRUMAN AVENUE

TRACT 5531

TRACT 6124

TRACT 6095

APN 316-150-31

APN 316-150-35

APN 316-150-43

APN 316-160-71

APN 316-160-72T

APN 316-160-46T

APN 316-160-20

APN 316-160-21

APN 316-160-22

APN 316-160-23

APN 316-160-24

APN 316-160-25

APN 316-160-26

APN 316-160-27

APN 316-160-31

S APRICOT AVENUE

BRIDLE AVENUE

S ARROYO AVENUE

TEMPERANCE AVENUE

SHEET #3

SHEET #4

SHEET #5

SHEET #6

SHEET #7

SHEET #8

BLDG 100

BLDG 200

BLDG 300

BLDG 400

BLDG 500

BLDG 600

BLDG 700

BLDG 800

FUTURE BLDG 900

TEMPERANCE ELEMENTARY SCHOOL SITE

DETENTION/MITIGATION POND

REFER TO GRADING PLAN AND FMFCD PLANS FOR DETENTION POND AND STORM DRAIN IMPROVEMENTS

PROPOSED ULTIMATE R/W

PROPERTY LINE

EXISTING R/W

FUTURE ULTIMATE R/W

PROPOSED R/W

PROPOSED TRAIL EASEMENT

FUTURE ULTIMATE C/L

SECTION LINE

PROPOSED INTERIM R/W

FUTURE TRUNK SEWER BY OTHERS

RELOCATED POWER POLE AND OVERHEAD UTILITY PER SEPARATE PLAN

WET TIE BY CITY OF FRESNO WATER DIVISION, REMOVE EX BLOWOFF

WATER METER PER CITY STD W-40

4" RP BACKFLOW ASSEMBLY PER CITY STD W-11

BLOWOFF ASSEMBLY PER CITY STD W-10

8" FIRE SERVICE

8" RPDA BACKFLOW PER CITY STD W-11. REFER TO ONSITE FIRE PROTECTION PLANS FOR CONTINUATION

4" RP BACKFLOW PER CITY STD W-11. REFER TO ONSITE WATER PLANS FOR CONTINUATION

REFER TO ONSITE LANDSCAPE IMPROVEMENT PLANS FOR CONTINUATION

REFER TO ONSITE CIVIL IMPROVEMENT PLANS FOR CONTINUATION

PROPOSED 48" SSMH-01
RIM 321.6±
INV 8" W 307.20
INV 8" E 311.34
INV 6" N 307.40

PROPOSED 48" SSMH-02
RIM 321.6±
INV 8" S 311.50
INV 8" W 311.40±

INSTALL SS CLEANOUT 02
INV 6" N 308.18
INV 6" S 308.18

INSTALL 30 LF OF 6"ø SS S=0.0260

INSTALL 9 LF OF 8"ø SS S=0.0034

CONNECT AT EX 8" STUB
INV 8" W 307.17
INV 8" E 307.17

EX 131 LF OF 8"ø SS S=0.0034

STA 10+00.00, 0.00
EX SSMH-01
(INV 8" E 306.73)
(INV 8" N 306.73)
(INV 8" S 306.73)

INSTALL 322 LF OF 8"ø SS S=0.0034

INSTALL 239 LF OF 8"ø SS S=0.0034

INSTALL SS CLEANOUT 01
INV 6" S 314.02
INV 6" N 314.02

INSTALL 36 LF OF 6"ø SS S=0.0039

PROPOSED 48" SSMH-03
RIM 321.5±
INV 8" E 312.69
INV 8" N 312.59

PROPOSED 48" SSMH-04
RIM 321.0±
INV 6" N 313.88
INV 8" W 313.50

REFER TO FMFCD PLANS FOR STORM DRAIN IMPROVEMENTS, TYP

SOLID WASTE ENCLOSURES SERVED BY PRIVATE ENTITY

SOLID WASTE CIRCULATION PATH PER CITY STD P-34

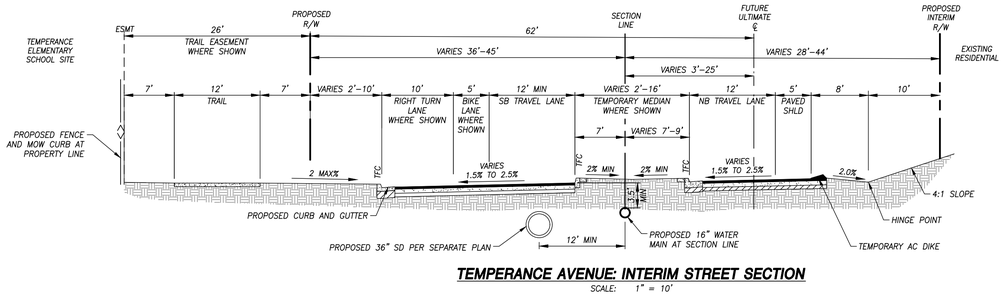
36" SD PLUG FOR FUTURE DEVELOPMENT

16" W PLUG FOR FUTURE DEVELOPMENT

BLOWOFF ASSEMBLY PER CITY STD W-10

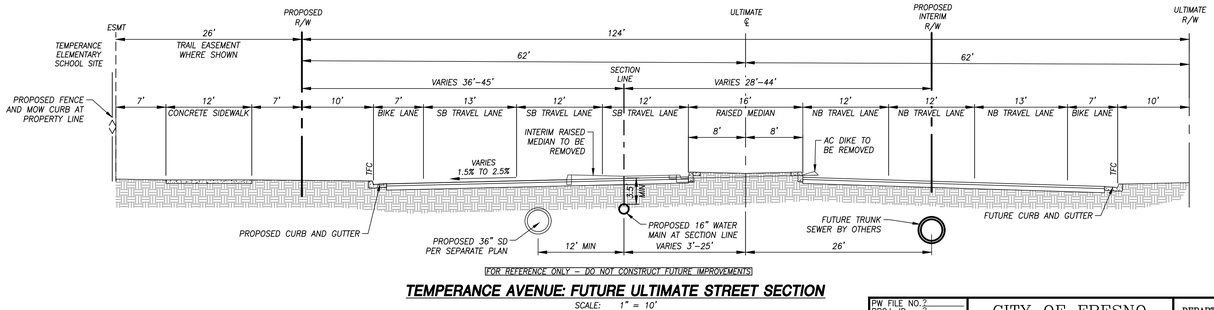
TEMPERANCE AVENUE: INTERIM STREET SECTION

SCALE: 1" = 10'

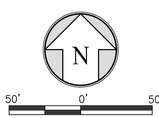


TEMPERANCE AVENUE: FUTURE ULTIMATE STREET SECTION

SCALE: 1" = 10'



FOR REFERENCE ONLY - DO NOT CONSTRUCT FUTURE IMPROVEMENTS



SCALE: 1"= 50'

REV.	DATE	DESCRIPTION	BY	APRVL

Know what's below. Call before you dig.

WARNING POWERLINES OVERHEAD

PW FILE NO. ?
PROJ. ID. ?
FUND. NO. ——
ORG. NO. ——
REF. & REV.

CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS

PLANS AND SPECIFICATIONS FOR SEWER AND WATER IMPROVEMENTS
TEMPERANCE ELEMENTARY SCHOOL
MASTER UTILITY PLAN

REVIEWED:
OFFICE ENG. _____ CITY ENG. _____

DR. BY: DM
CH. BY: ——
DATE: ——
SCALE: AS NOTED

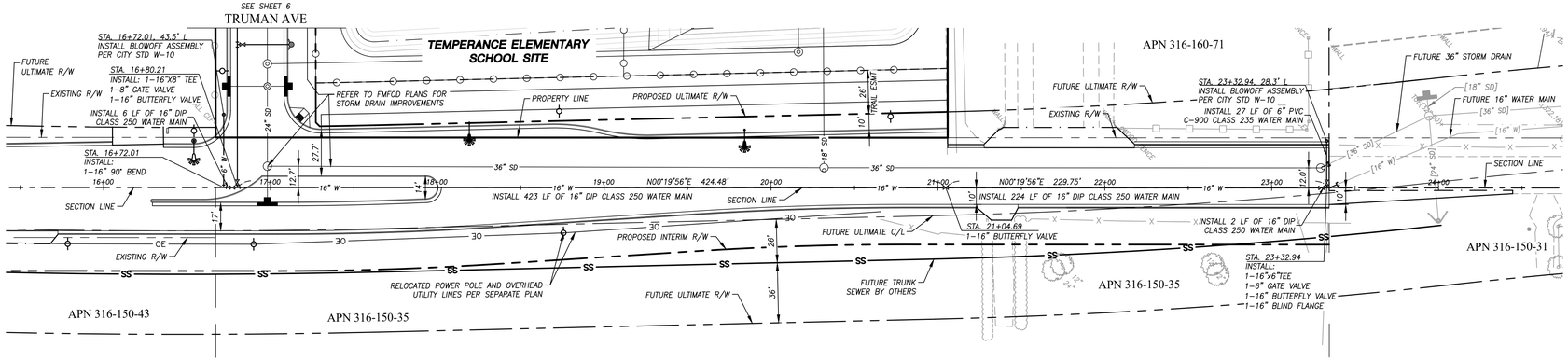
SHEET NO. 2
OF 8 SHEETS
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XX-X-XXXXX

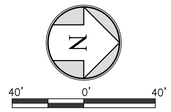
OK PROJECT 250125

REGISTERED PROFESSIONAL ENGINEER — EXP. DATE — DRAFT — NO. 61523 — CIVIL — STATE OF CALIFORNIA

FOR BID PURPOSES ONLY - NOT FOR CONSTRUCTION

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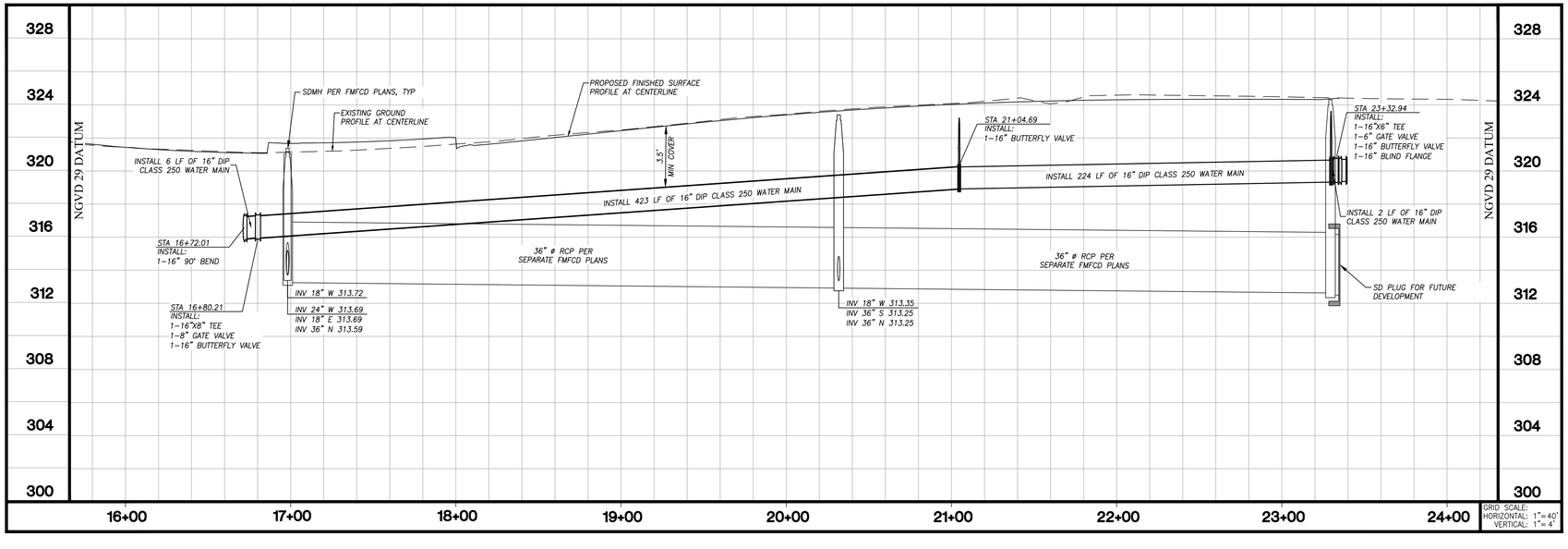




SCALE: 1"= 40'

S TEMPERANCE AVENUE

STA 10+00 - 24+00



REV.	DATE	DESCRIPTION	BY	APRVL

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

WARNING POWERLINES OVERHEAD

REGISTERED PROFESSIONAL ENGINEER — ALEX T. DWIGGINS — NO. 61523 — CIVIL — STATE OF CALIFORNIA

DRAFT

PW FILE NO.	2
PROJ. ID.	2
FUND. NO.	
ORG. NO.	
REF. & REV.	

CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS

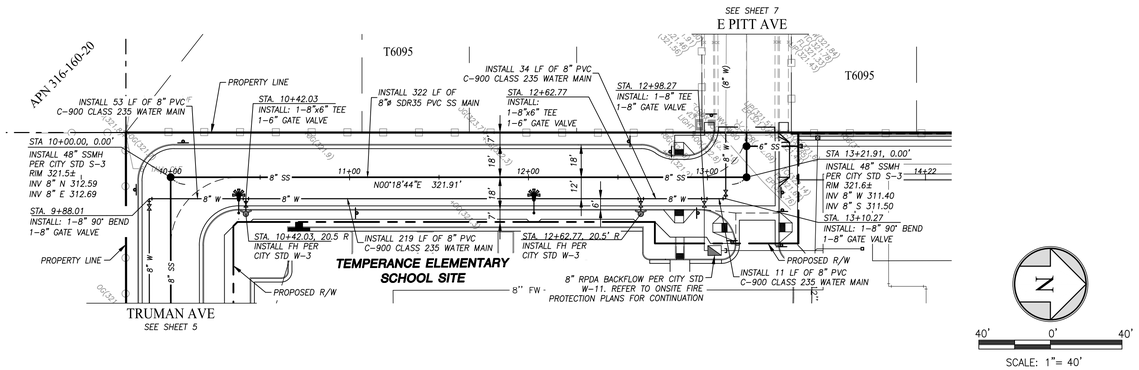
PLANS AND SPECIFICATIONS FOR SEWER AND WATER IMPROVEMENTS TEMPERANCE ELEMENTARY SCHOOL S TEMPERANCE AVENUE PLAN AND PROFILE

REVIEWED:	
OFFICE ENG.	CITY ENG.
DR. BY: DM	SHEET NO. 3
CH. BY:	OF 8 SHEETS
DATE:	XXXX
SCALE: AS NOTED	XX-X-XXXXX

CK PROJECT 250125

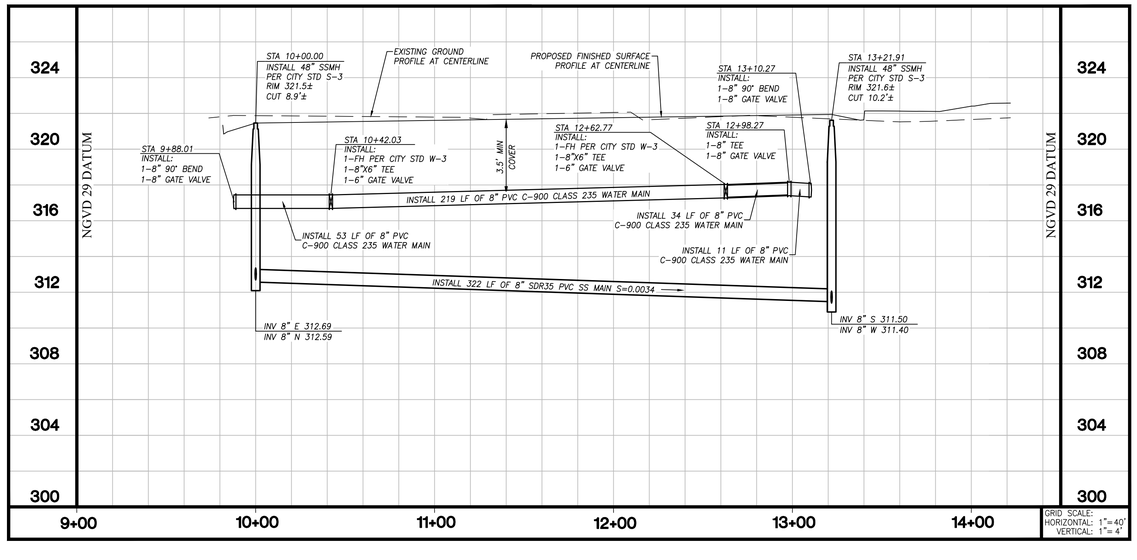
FOR BID PURPOSES ONLY - NOT FOR CONSTRUCTION

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BRIDLE AVENUE

STA 10+00 - 13+50



REV.	DATE	DESCRIPTION	BY	APRVL

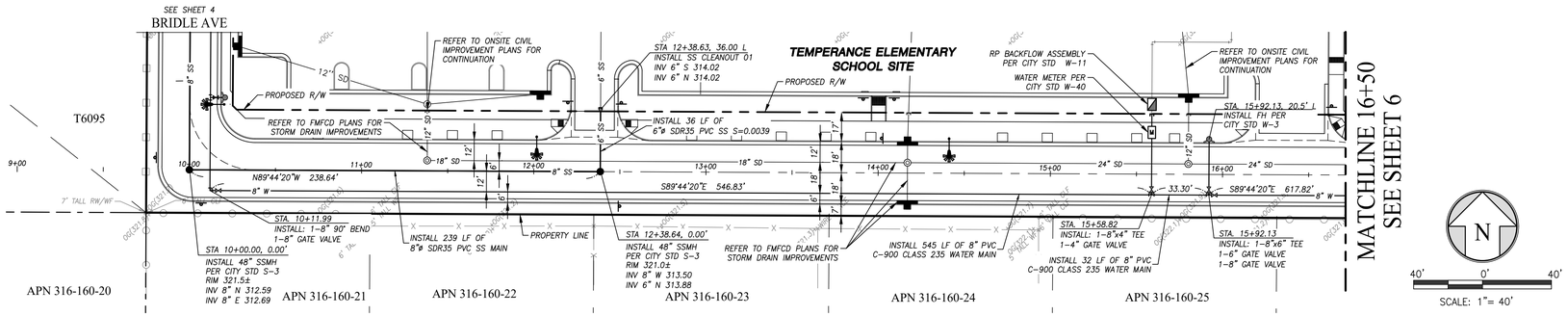
DRAFT
REGISTERED PROFESSIONAL ENGINEER
ALEX T. DWIGGINS
NO. 61523
CIVIL
STATE OF CALIFORNIA

PW FILE NO. 2 / 2	CITY OF FRESNO	DEPARTMENT OF PUBLIC WORKS
PROJ. ID.	PLANS AND SPECIFICATIONS FOR SEWER AND WATER IMPROVEMENTS TEMPERANCE ELEMENTARY SCHOOL BRIDLE AVENUE 10+00 - 13+50 PLAN AND PROFILE	REVIEWED: OFFICE ENG. _____ CITY ENG. _____
FUND. NO.		DR. BY: DM / CH. BY: / DATE: / SCALE: AS NOTED
ORG. NO.		SHEET NO. 4 OF 8 SHEETS
REF. & REV.		XXXX / XX-X-XXXXX
		CK PROJECT 250125

FOR BID PURPOSES ONLY - NOT FOR CONSTRUCTION

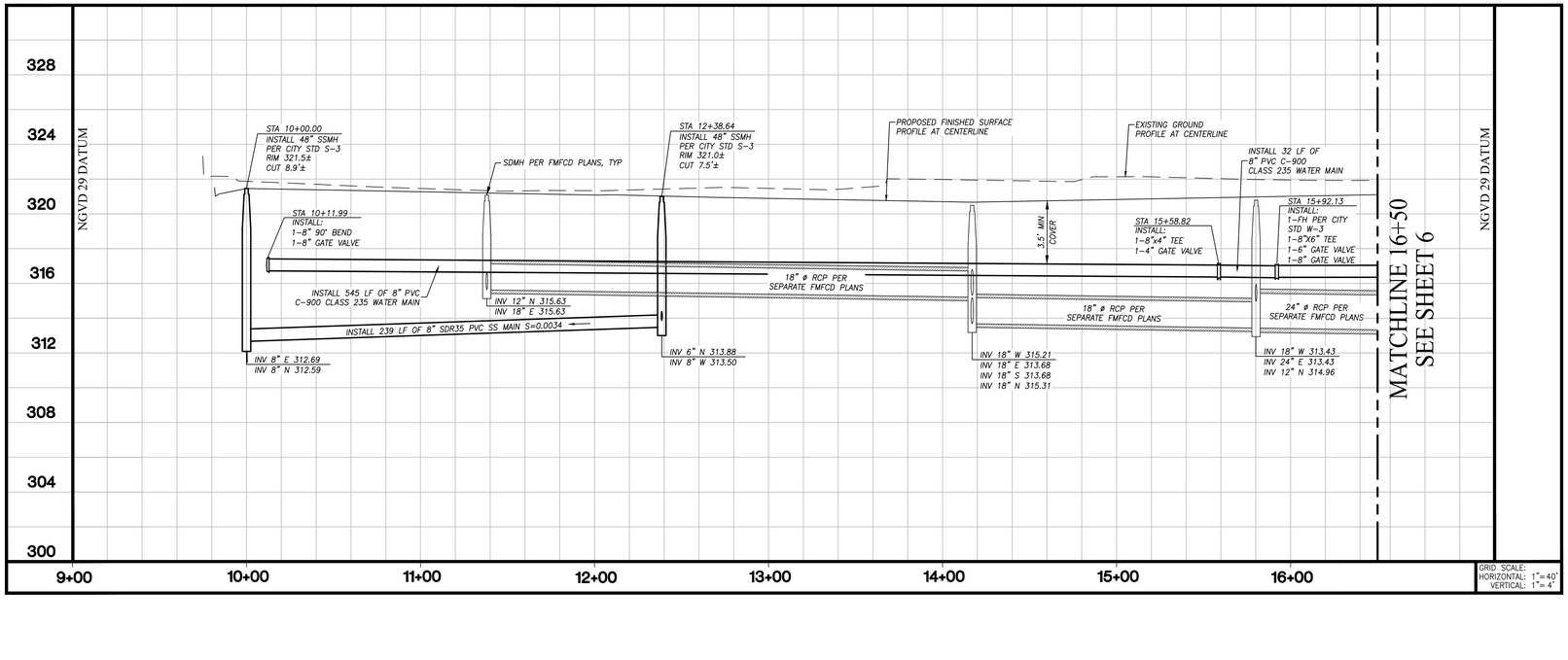
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NOTE:
ALL REDUCED PRESSURE BACKFLOW ASSEMBLIES (I.E. RP DEVICES) SHALL BE TESTED AND APPROVED BY A CERTIFIED AWWA OR ABPA TESTER WITHIN 5 DAYS OF INSTALLATION. THE PROPERTY WILL NOT BE GIVEN OCCUPANCY UNTIL ALL OF THE RP DEVICES ARE TESTED AND DOCUMENTED WITH THE CITY OF FRESNO WATER DIVISION. A LIST OF CERTIFIED TESTERS CAN BE OBTAINED BY CALLING 559-621-5335. TEST RESULTS CAN BE SUBMITTED TO THE CITY OF FRESNO WEBSITE AT; WWW.FRESNO.GOV/GOVERNMENT/DEPARTMENTDIRECTORY/PUBLICUTILITIES/WATERMANAGEMENT/CONSERVATION/BACKFLOW OR BY FAX AT 559-498-1533.



TRUMAN AVENUE

STA 20+00 - 26+50



REV.	DATE	DESCRIPTION	BY	APRVL

Know what's below. Call before you dig.

WARNING
POWERLINES OVERHEAD

PW FILE NO.	?
PROJ. ID.	?
FUND. NO.	
ORG. NO.	
REF. & REV.	

CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS

PLANS AND SPECIFICATIONS FOR
SEWER AND WATER IMPROVEMENTS
TEMPERANCE ELEMENTARY SCHOOL
TRUMAN AVENUE 10+00 - 16+50
PLAN AND PROFILE

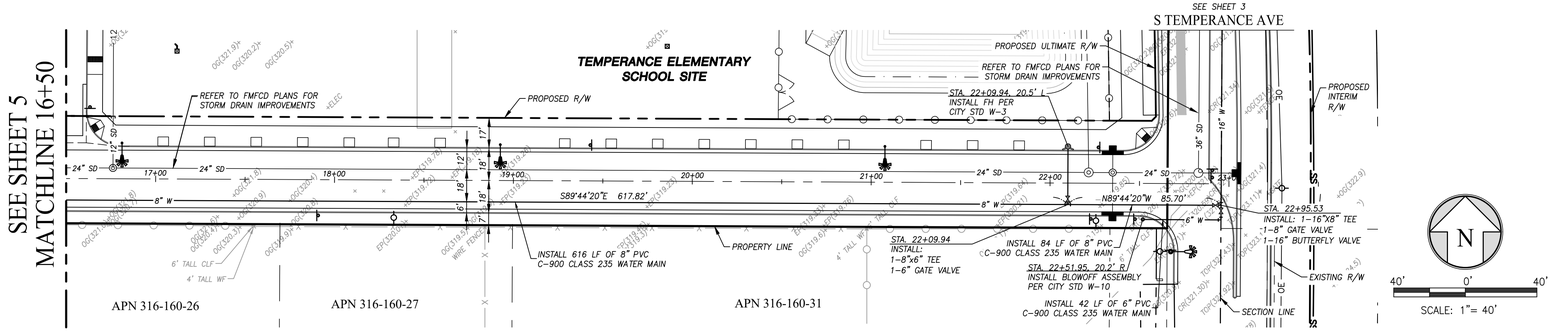
REVIEWED:
OFFICE ENG. _____ CITY ENG. _____
DR. BY: DM
CH. BY:
DATE:
SCALE: AS NOTED
SHEET NO. 5
OF 8 SHEETS
XXXX
XX-X-XXXXX

OK PROJECT 250125

REGISTERED PROFESSIONAL ENGINEER — REF. 1 - DWG 100 — DRAFT — NO. 61523 — CIVIL — STATE OF CALIFORNIA

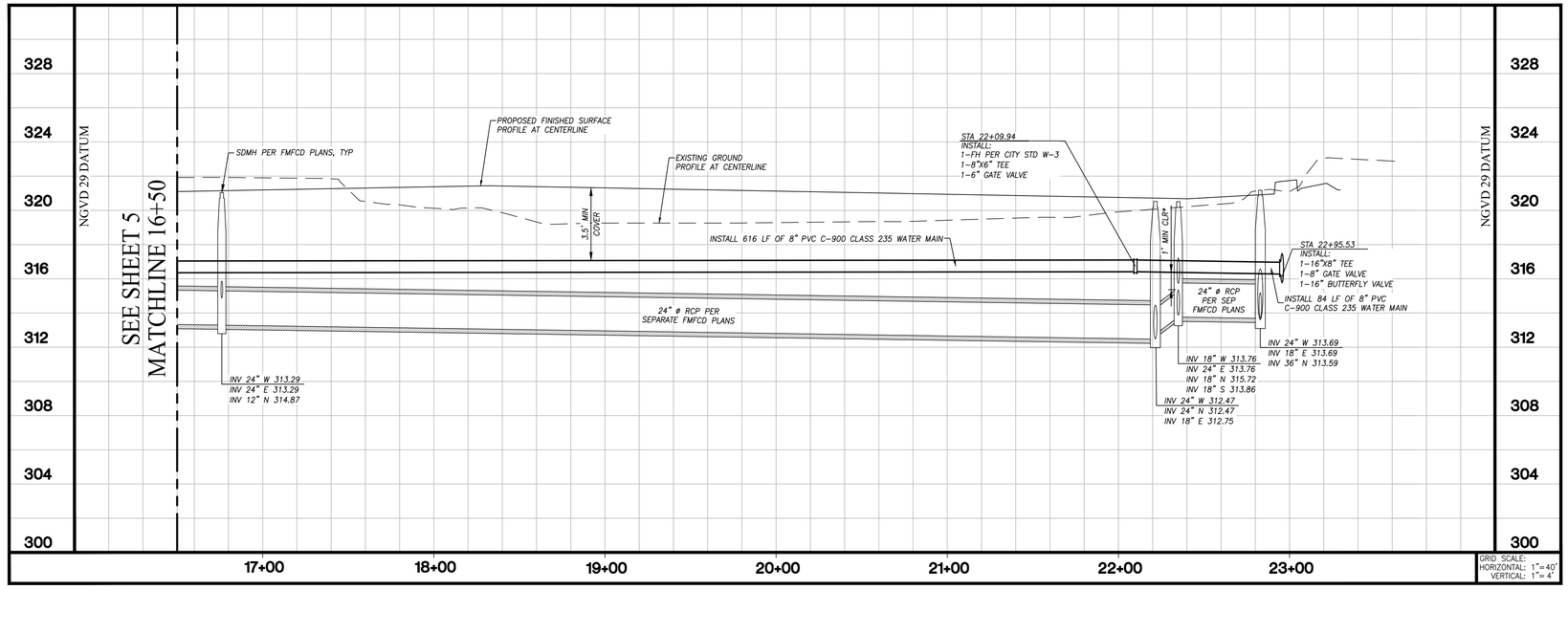
FOR BID PURPOSES ONLY - NOT FOR CONSTRUCTION

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TRUMAN AVENUE

STA 26+50 - 33+00



NOTE:

* ENSURE 12" MIN CLEARANCE BETWEEN OUTSIDE PIPE DIAMETERS. IF 12" MIN CLEARANCE IS NOT ACHIEVED, CONTRACTOR SHALL PLACE 3 SACK CEMENT SLURRY SADDLE OVER 18" STORM DRAIN PIPE PER FMFCD STD C-2.

REGISTERED PROFESSIONAL ENGINEER — DRAFT — NO. 61523 — CIVIL — STATE OF CALIFORNIA

Know what's below. Call before you dig.

WARNING — POWERLINES OVERHEAD

REV.	DATE	DESCRIPTION	BY	APRVL

PW FILE NO.: ?
PROJ. ID.: ?
FUND. NO.:
ORG. NO.:
REF. & REV.

CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS

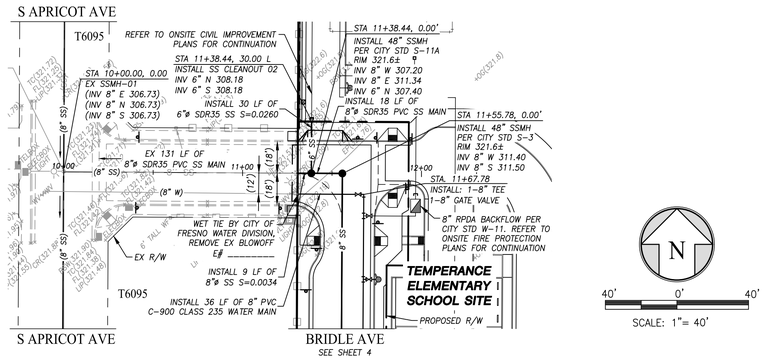
PLANS AND SPECIFICATIONS FOR SEWER AND WATER IMPROVEMENTS
TEMPERANCE ELEMENTARY SCHOOL
TRUMAN AVENUE 16+50 - 23+00
PLAN AND PROFILE

REVIEWED:
OFFICE ENG. _____ CITY ENG. _____
DR. BY: DM
CH. BY:
DATE:
SCALE: AS NOTED
SHEET NO. 6
OF 8 SHEETS
XXXX
XX-X-XXXXX

OK PROJECT 250125

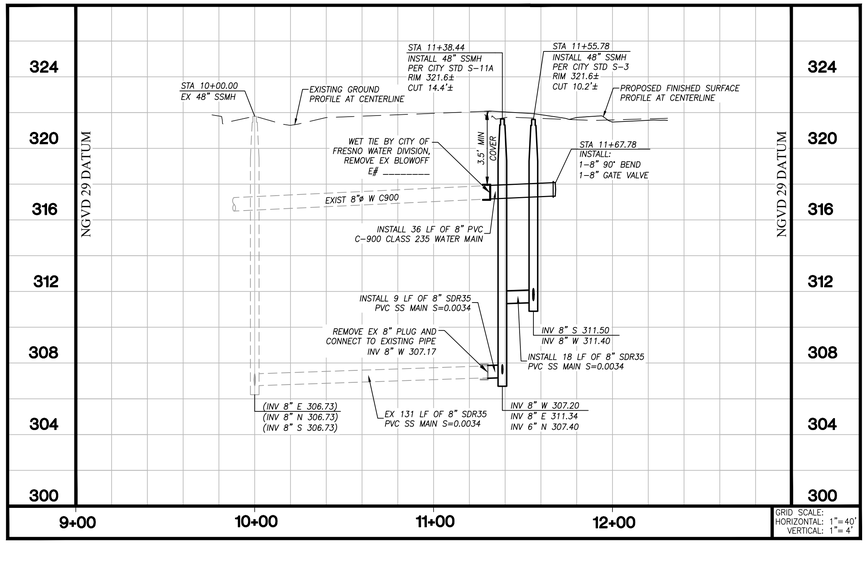
FOR BID PURPOSES ONLY - NOT FOR CONSTRUCTION

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E PITT AVENUE

STA 10+00 - 12+31



REGISTERED PROFESSIONAL ENGINEER
ALEX T. DWIGGINS
DRAFT
NO. 61523
CIVIL
STATE OF CALIFORNIA

REV.	DATE	DESCRIPTION	BY	APRVL

PW FILE NO. 2
PROJ. ID. 2
FUND. NO.
ORG. NO.
REF. & REV.

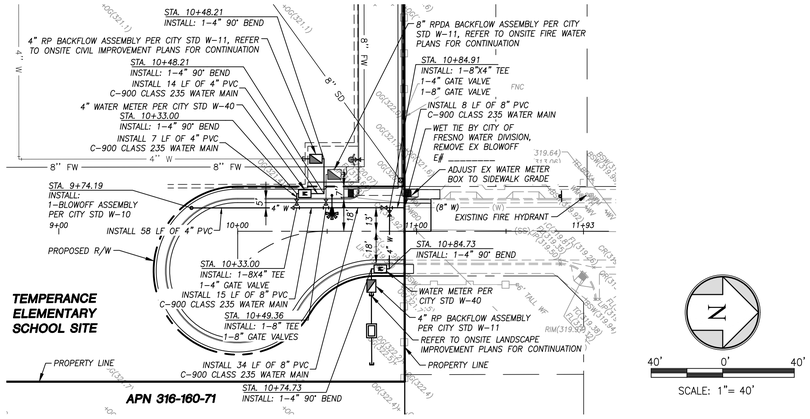
CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS

PLANS AND SPECIFICATIONS FOR
SEWER AND WATER IMPROVEMENTS
TEMPERANCE ELEMENTARY SCHOOL
E PITT AVENUE PLAN AND PROFILE

REVIEWED:
OFFICE ENG. _____ CITY ENG. _____
DR. BY: DM
CH. BY:
DATE:
SCALE: AS NOTED
SHEET NO. 7
OF 8 SHEETS
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XX-X-XXXXX
CK PROJECT 250125

FOR BID PURPOSES ONLY - NOT FOR CONSTRUCTION

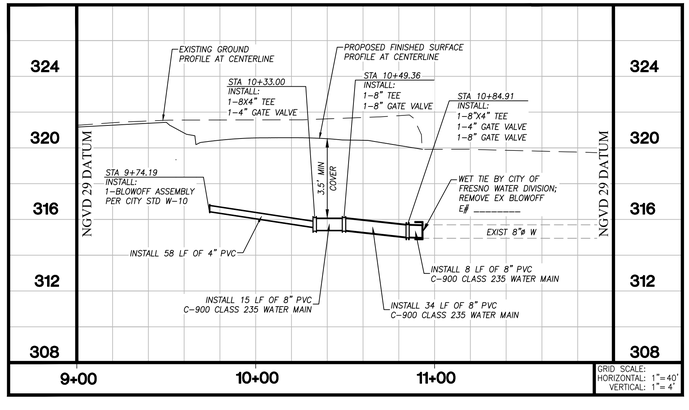
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NOTE:
ALL REDUCED PRESSURE BACKFLOW ASSEMBLIES (I.E. RP DEVICES) SHALL BE TESTED AND APPROVED BY A CERTIFIED AWWA OR ABPA TESTER WITHIN 5 DAYS OF INSTALLATION. THE PROPERTY WILL NOT BE GIVEN OCCUPANCY UNTIL ALL OF THE RP DEVICES ARE TESTED AND DOCUMENTED WITH THE CITY OF FRESNO WATER DIVISION. A LIST OF CERTIFIED TESTERS CAN BE OBTAINED BY CALLING 559-621-5335. TEST RESULTS CAN BE SUBMITTED TO THE CITY OF FRESNO WEBSITE AT; WWW.FRESNO.GOV/GOVERNMENT/DEPARTMENTDIRECTORY/PUBLICUTILITIES/WATERMANAGEMENT/CONSERVATION/BACKFLOW OR BY FAX AT 559-498-1533.

S ARROYO AVENUE

STA 10+00 - 11+93



REV.	DATE	DESCRIPTION	BY	APRVL

PW FILE NO. ____
PROJ. ID. ____
FUND. NO. ____
ORG. NO. ____
REF. & REV.

CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS

PLANS AND SPECIFICATIONS FOR SEWER AND WATER IMPROVEMENTS TEMPERANCE ELEMENTARY SCHOOL S ARROYO AVENUE PLAN AND PROFILE

REVIEWED:
OFFICE ENG. _____ CITY ENG. _____
DR. BY: DM
CH. BY: _____
DATE: XXXX
SCALE: AS NOTED
SHEET NO. 8 OF 8 SHEETS
XX-X-XXXXX

OK PROJECT 250125

REGISTERED PROFESSIONAL ENGINEER — ALEX T. DWIGGINS — DRAFT — NO. 61523 — CIVIL — STATE OF CALIFORNIA

FOR BID PURPOSES ONLY - NOT FOR CONSTRUCTION

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GENERAL NOTES:

1. THE WORK EMBRACED HEREIN SHALL BE DONE IN ACCORDANCE WITH THE APPROPRIATE PROVISIONS OF THE SPECIFICATIONS ENTITLED CITY OF FRESNO, STANDARD SPECIFICATIONS, MAY 2024 EDITION, ADDENDUM 9, INSOFAR AS THE SAME MAY APPLY, WHICH SPECIFICATIONS HEREINAFTER ARE REFERRED TO AS THE STANDARD SPECIFICATION.
2. THE SANITARY SEWER SYSTEM AND HOUSE CONNECTIONS, TOGETHER WITH WATER MAIN, GAS MAINS, IF ANY, AND THEIR RESPECTIVE SERVICE CONNECTIONS SHALL BE COMPLETED IN THE STREET BEFORE INSTALLATION OF THE STREET SURFACING.
3. INSTALL SIDEWALKS, CURBS, AND GUTTERS AS PER CITY OF FRESNO STANDARD DRAWING P–5 AND IN ACCORDANCE WITH DETAILS ON THESE DRAWINGS. CURBS AND GUTTERS SHALL BE CONSTRUCTED BEFORE PLACING THE STREET SURFACING AND BASE COURSE.
4. PERMITS MUST BE OBTAINED AND FEES PAID IN ACCORDANCE WITH ORDINANCES OF THE CITY OF FRESNO.
5. THE TYPICAL CROSS SECTIONS SHOWN SHALL BE USED ONLY FOR THE PAVEMENT STRUCTURAL SECTION, OVERLAY THICKNESS AND SIDE SLOPES. SEE PLAN AND PROFILE SHEETS FOR HORIZONTAL LIMITS AND LOCATIONS OF CURB AND GUTTER, MEDIAN ISLANDS, SAWCUTTING, GRINDING, OVERLAYS, SIDEWALKS, FENCES, ROW LINES, EXISTING FEATURES AND ANY OTHER PROPOSED IMPROVEMENTS. THE TYPICAL CROSS SECTION SHOULD NOT BE USED FOR STAKING OF PROPOSED IMPROVEMENTS.
6. ALL STREETS SHALL BE SURFACED IN ACCORDANCE WITH THIS PLAN AND THE FOLLOWING SPECIFICATIONS:
   A. 6–INCH SUBGRADE AND ALL FILLS IN EXCESS OF 6 INCHES WILL BE COMPACTED IN ACCORDANCE WITH THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, SECTION 19 OF THE STANDARD SPECIFICATIONS, LATEST EDITION, UNLESS OTHERWISE NOTED.
   B. AGGREGATE BASE SHALL CONFORM TO AND BE PLACED IN ACCORDANCE WITH SECTION 12 OF THE CITY STANDARDS SPECIFICATIONS, USING CLASS 2 AGGREGATE BASE, AND AGGREGATE SUB–BASE SHALL UTILIZE CLASS 2 AGGREGATE SUB–BASE MATERIAL (MINIMUM 50 R–VALUE).
   C. PAINT BINDER WILL BE AS SPECIFIED BY THE CITY ENGINEER AND SHALL CONFORM TO AND BE APPLIED IN ACCORDANCE WITH SECTION 13 OF THE CITY STANDARD SPECIFICATIONS.
   D. ASPHALT CONCRETE SURFACING SHALL BE TYPE A USING PG 64–10 ASPHALT BINDER, CONFORMING TO AND PLACED IN ACCORDANCE WITH SECTION 13 OF THE CITY SPECIFICATIONS.
7. ALL BOUNDARY STREETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THIS PLAN.
8. THE TRANSITION BETWEEN THE EDGE AND END OF THE REQUIRED STREET SURFACING AND THE EXISTING SURFACING OR GROUND SHALL NOT HAVE A SLOPE STEEPER THAN 5 PERCENT.
9. ANY CONCRETE WORK TO BE CONSTRUCTED SHALL CONFORM TO CITY OF FRESNO STANDARDS ADOPTED BY RESOLUTION No. 70–36, AS REVISED.
10. INSTALL STREET LIGHTING SYSTEM IN ACCORDANCE WITH RESOLUTION No. 78–522 AND 88–229. LOCATION OF LIGHTS TO BE DETERMINED AND APPROVED BY THE TRAFFIC ENGINEER, SERVICE LOCATION TO BE DETERMINED BY P.G. &E. THE STREETLIGHTS SHALL BE INSTALLED IN ACCORDANCE WITH PUBLIC WORKS STANDARDS E–1 THROUGH E–27.
11. TRAFFIC REQUIREMENTS:
   A. ALL SIGNING, DETOURING AND BARRICADING SHALL CONFORM TO THE LATEST REVISION OF THE 2014 CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES ISSUED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.
   B. ALL SIGNS SHALL BE RETROFLECTIVE PER CHAPTER 2A.08 OF THE LATEST REVISION OF THE 2014 CALIFORNIA MUTCD.
   C. HIGH LEVEL WARNING DEVICES SHALL BE USED ON ALL APPROACHES TO THE CONSTRUCTION AREA.
   D. SPECIAL ATTENTION IS CALLED TO SECTION 7–10.1 THROUGH 10.3 OF THE CITY STANDARD SPECIFICATIONS.
   E. ONE (1) 12–FOOT DRIVING LANE MUST BE MAINTAINED IN EACH DIRECTION AT ALL TIMES.
   F. NO PUBLIC STREET SHALL BE CLOSED WITHOUT PRIOR APPROVAL FROM THE CITY TRAFFIC ENGINEER.
   G. STREET WORK PERMITS ISSUED TO ALLOW WORK IN THE PUBLIC RIGHT– OF–WAY SHALL BE REVOKED IF THE ABOVE REQUIREMENTS OF SUBPARAGRAPHS "A" THROUGH "G" ARE NOT STRINGENTLY COMPLIED WITH BY THE DEVELOPER'S FORCES DURING OFF–SITE STREET IMPROVEMENT CONSTRUCTION OPERATIONS. REVOKED PERMITS SHALL NOT BE RE–ISSUED UNTIL SUCH TIME AS THE PUBLIC WORKS DIRECTOR IS SATISFIED THAT THE DEVELOPER'S CONTRACTORS WILL PERFORM THEIR OPERATION IN COMPLIANCE WITH THE ABOVE REQUIREMENTS, INCLUDING THE CONDITIONS OF THE STREET WORK PERMIT.
12. EXISTING PAVEMENT SHALL NOT BE REMOVED UNTIL SUCH TIME AS ALL UTILITIES ARE COMPLETED AND PAVING CONTRACTOR IS READY TO REPAIR WITHIN 5 DAYS.
13. ALL STORM DRAINAGE FACILITIES ARE TO BE COMPLETED PRIOR TO START OF STREET WORK AND IN ACCORDANCE WITH FRESNO METROPOLITAN FLOOD CONTROL DISTRICT STANDARD SPECIFICATIONS AND STANDARD PLANS, APRIL 1, 2011 EDITION, AND REVISIONS THEREOF.
14. CONTRACTOR WILL NOTIFY F.M.F.C.D CONSTRUCTION MANAGER, AT (559) 456–3292, 48 HOURS PRIOR TO CONNECTING TO ANY STORM DRAIN FACILITY.
15. CONSTRUCT ACCESSIBLE RAMPS AND FINISH RAMP SURFACES AS DIRECTED BY ENGINEER.
16. ALL SEWER MANHOLES AFFECTED BY THIS PROJECT SHALL BE ADJUSTED TO GRADE AS NECESSARY AND INCLUDED IN THIS WORK.
17. ALL EXISTING WATER MAIN VALVES (CAP AND LID) SHALL BE ADJUSTED TO GRADE BY CONTRACTOR. FOR COORDINATION WITH WATER DIVISION, CALL (559) 621–5360.
18. TWO WORKING DAYS PRIOR TO COMMENCING EXCAVATION, THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT, TOLL FREE, AT 1–800–227–2600 or 811.
19. INITIAL COMPACTION TESTS SHALL BE PAID FOR BY THE DEVELOPER, ANY REQUIRED RETESTS SHALL BE PAID FOR BY THE CONTRACTOR.
20. THE DEVELOPER SHALL OBTAIN POLE IDENTIFICATION NUMBERS FROM PG&E AND THE DEVELOPER SHALL INSTALL NUMBERS IN ACCORDANCE WITH CITY OF FRESNO STANDARD DRAWING E–25.
21. ALL EXISTING OVERHEAD UTILITIES SHALL BE PLACED UNDERGROUND AS PER RESOLUTION No. 78–522 AND 88–229. IF OVERHEAD UTILITIES ARE TO BE RELOCATED, THE RELOCATION SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE OF THE STREET IMPROVEMENTS BY THE CITY.
22. APPROVAL OF STREET PLANS SHALL IN NO WAY BE CONSTRUED AS A GRANT BY THE CITY OF ANY RIGHTS TO THE SUBDIVIDER TO TRESPASS UPON LAND RIGHTFULLY IN THE POSSESSION OF, OR OWNED BY ANOTHER, WHETHER SUCH LAND IS PRIVATELY OR PUBLICLY OWNED. THE DEVELOPER SHALL OBTAIN WRITTEN AUTHORIZATION FROM ANY ADJACENT PROPERTY OWNER GIVING HIM PERMISSION TO ENTER HIS PROPERTY FOR PURPOSE OF CONSTRUCTING THE IMPROVEMENTS DELINEATED ON THESE PLANS AND TRANSITIONS THERETO. THE DEVELOPER SHALL PROVIDE THE CITY WITH A COPY OF OWNERS PERMISSION PRIOR TO START OF WORK.
23. AN ENCROACHMENT PERMIT IS REQUIRED FOR ANY WORK TO BE PERFORMED IN THE COUNTY OF FRESNO ROAD RIGHT–OF–WAY. CONTACT THE COUNTY PERMIT ENGINEER AT (559) 262–4107 TO OBTAIN IF AN ENCROACHMENT PERMIT HAS NOT BEEN OBTAINED WITHIN 12 MONTHS OF THE APPROVAL DATE OF THESE PLANS, ADDITIONAL REVIEW AND REVISIONS TO THE PLANS MAY BE REQUIRED BEFORE PERMIT IS ISSUED.
24. DEVELOPER TO FURNISH AND INSTALL LOCAL STREET NAME SIGNS AT EACH INTERSECTION WITHIN SUBDIVISION PER CITY OF FRESNO STANDARD DRAWING P–92.

ELECTRICAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF SECTION 86 OF THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS DATED 2015, AND SECTIONS ES–1 THRU ES–16D OF THE STATE OF CALIFORNIA STANDARD PLANS.
2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES AND PROVIDE PROTECTION PRIOR TO AND DURING TRENCHING.
3. POTENTIAL OVERHEAD CONFLICT WITH HIGH VOLTAGE LINES MAY EXIST. MAINTAIN PROPER CLEARANCE. CONTACT P.G. &E. TO VERIFY WIRE LOCATION.
4. POLES SHALL BE LOCATED IN THE FIELD BY THE CITY OF FRESNO. NOTIFY TRAFFIC ENGINEERING TWO WORKING DAYS IN ADVANCE AT (559) 621–1312.
5. PULL BOXES SHALL BE NO. 5(E), UNLESS OTHERWISE NOTED ON THE WORK. PULL BOXES SHALL NOT BE INSTALLED IN CURB RAMPS. VANDAL RESISTANT LOCKING LIDS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT FINAL INSPECTION OF THE TRAFFIC SIGNAL. CONTRACTOR SHALL PROVIDE TEMPORARY LIDS DURING CONSTRUCTION. LOCKING LIDS SHALL BE GALVANIZED STEEL DIAMOND PLATE, MINIMUM THICKNESS 3/16", WITH MINIMUM TWO (2) CLAMPING JAWS AND BE KEYED TO THE CITY OF FRESNO KEY. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 100' APART.
6. ALL PULL BOXES INSTALLED IN NON–CONCRETE AREAS SHALL BE SURROUNDED BY A ONE (1) FOOT WIDE CONCRETE COLLAR, TO A DEPTH EQUAL TO THE PULL BOX AND EXTENSION, PER CITY OF FRESNO SPECIFICATIONS, AND SHALL HAVE A VANDAL RESISTANT (SEE NOTE ABOVE) LOCKING LID INSTALLED. ALL CONDUIT ENTRIES INTO ADVANCE DETECTION, INTERMEDIATE DETECTION, AND STREET LIGHTING PULL BOXES INSTALLED IN NON–CONCRETE AREAS SHALL ENTER THE PULL BOX FROM THE BOTTOM, USING 90 DEGREE ELBOWS AND EXTENDING 3 TO 5 INCHES ABOVE THE FINISHED GROUT.
7. ALL CONDUITS SHALL HAVE BUSHINGS INSTALLED PRIOR TO INSTALLING CONDUCTORS. STEEL CONDUITS SHALL HAVE LAY IN STYLE LUGS THAT ARE CAST INTEGRAL WITH THE BUSHING.
8. CONDUIT BENDS OF 90 DEGREES ARE PROHIBITED UNLESS OTHERWISE NOTED OR WRITTEN PERMISSION IS GIVEN BY THE CITY OF FRESNO ENGINEER.

OWNER

SANGER UNIFIED SCHOOL DISTRICT
1905 SEVENTH STREET
SANGER, CA 93657

PREPARED BY

QK, INC.
609 NORTH IRWIN STREET
HANFORD, CA 93230
(559) 582–1056

SITE ADDRESS

1345 SOUTH TEMPERANCE AVENUE
SANGER, CA 93657

ASSESSOR'S PARCEL NUMBER:

316–160–71, 316–160–72T, AND 316–160–46T

BENCHMARK

FRESNO COUNTY BENCHMARK LG1, A FRESNO COUNTY BRASS CAP AT THE INTERSECITON OF AMERICAN AVENUE AND PLACER AVENUE, 27.3' SOUTHEAST OF A GUY POLE, 1.0' EAST OF A POWER POLE. HAS AN NGVD29 ELEVATION OF 172.408 FEET PER COUNTY OF FRESNO BENCHMARK RECORDS.

BASIS OF BEARINGS AND COORDINATES

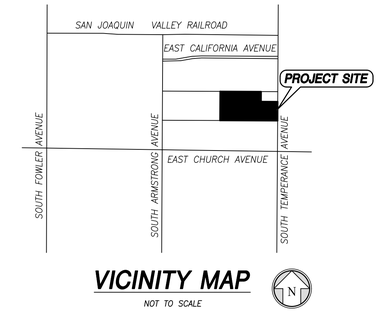
THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 6. TOWNSHIP 15 SOUTH. RANGE 17 EAST, M.D.B&M, HAS A WGS84 BEARING OF N8956'31" E PER GPS OBSERVATIONS. COORDINATE SYSTEM IS LOCAL, NO PROJECTION, NO DATUM.

LEGEND:

- PROPOSED BLOCK WALL, PER SEPARATE PLAN
- CENTERLINE
- SECTION LINE
- PROPOSED RIGHT–OF–WAY
- EXISTING RIGHT–OF–WAY
- PUBLIC UTILITY EASEMENT
- LANDSCAPE EASEMENT
- PROPOSED SAWCUT
- (OE) EXISTING OVERHEAD ELECTRIC LINE
- (UE) EXISTING UNDERGROUND ELECTRIC
- EXISTING EDGE OF PAVEMENT
- EXISTING CURB AND GUTTER
- PROPOSED CURB AND GUTTER PER CITY STD. P–5
- PROPOSED TYPE "D" AC DIKE PER CALTRANS STD A87B
- PROPOSED VALLEY GUTTER PER CITY STD. P–10
- PROPOSED CONCRETE SIDEWALK PER CITY STD. P–5
- PROPOSED CURB RAMP PER CITY STD. P–28 AND P–32
- FMFCD TYPE 'D' INLET, PER SEPARATE PLAN
- PROPOSED DRIVE APPROACH PER CITY STD. P–4 AND P–6
- PROPOSED STREETLIGHT PER SEPARATE PLAN
- EXISTING STREETLIGHT
- MANHOLE, AS LABELED
- FIRE HYDRANT, AS LABELED
- TEMPORARY BENCHMARK
- SD PROPOSED STORM DRAIN PIPE PER SEPARATE PLANS

ABBREVIATIONS:

AP	ANGLE POINT	OG	ORIGINAL GRADE
AC	ASPHALTIC CONCRETE	R	RIGHT
BC	BEGIN CURVE	R/W	RIGHT–OF–WAY
BW	BACK OF SIDEWALK	S=0.0000	SLOPE IN FOOT, PER FOOT
C	CONCRETE	→	DIRECTION OF SLOPE
CL	CENTERLINE	SD	STORM DRAIN
CNS	COMPACTED NATIVE SOIL	SDMH	STORM DRAIN MANHOLE
CR	PAVEMENT CROWN	SF	SPLIT FLOW
DI	DROP INLET	SS	SANITARY SEWER
DWY	DRIVEWAY	SSMH	SANITARY SEWER MANHOLE
EC	END CURVE	STA	STATION
EP	EDGE OF PAVEMENT	STD	STANDARD
EX	EXISTING	S/W	SIDEWALK
FF	FINISHED FLOOR	TC	TOP OF CURB
FG	FINISHED GRADE	T.B.R	TO BE REMOVED
FH	FIRE HYDRANT	U.N.O.	UNLESS NOTED OTHERWISE
FL	FLOW LINE	VG	VALLEY GUTTER
G	GUTTER	W	WATER
GB	GRADE BREAK	000.00	PROPOSED ELEVATION
INV	INVERT	[000.00]	FUTURE ELEVATION
L	LEFT	(000.00)	EXISTING ELEVATION
LF	LINEAL FEET		
ME	MATCH EXISTING		
NTS	NOT TO SCALE		
OE	OVERHEAD ELECTRIC		
P	PAVEMENT		
PCC	POINT OF COMPOUND CURVE		
PI	POINT OF INTERSECTION		
PIVC	POINT OF INTERSECTION OF VERTICAL CURVE		
POC	POINT ON CURVE		
POVC	POINT ON VERTICAL CURVE		
PL	PROPERTY LINE		
PP	POWER POLE		
PRC	POINT OF REVERSE CURVE		
PPUE	PLANTING AND PUBLIC UTILITY EASEMENT		



VICINITY MAP

NOT TO SCALE

SHEET INDEX:

No.	SHEET TITLE:	DRAWING No:
1	COVER SHEET	XX–X–XXXXX
2	DEMOLITION PLAN	XX–X–XXXXX
3	SECTIONS	XX–X–XXXXX
4	TEMPERANCE AVENUE STA 10+00–18+75	XX–X–XXXXX
5	TEMPERANCE AVENUE STA 18+75–24+50	XX–X–XXXXX
6	ARROYO AVENUE AND BRIDLE AVENUE	XX–X–XXXXX
7	TRUMAN AVENUE	XX–X–XXXXX
8	SIGNING AND STRIPING PLAN	XX–X–XXXXX

ASSOCIATED PLANS

1	STREETLIGHT COVER SHEET	XX–X–XXXXX
2	STREETLIGHT PLAN	XX–X–XXXXX

FOR BID PURPOSES ONLY - NOT FOR CONSTRUCTION

SITE MAP

SCALE: 1" = 100'

PLAN REVIEW FEE: $ _____
DEPOSIT XX/XX/XX
(RECEIPT No. _____) $ _____

AMOUNT DUE:
(CM NO. _____) $ _____

REMAINING:
(CM NO. _____) $ _____

INSPECTION FEE:
(CM No. _____) $ _____

AMOUNT DUE:
(CM No. _____)

DESIGN ENGINEER:

ALEX T. DWIGGINS, RCE 61523 DATE

REGISTERED PROFESSIONAL ENGINEER — ALEX T. DWIGGINS — DRAFT — NO. 61523 — CIVIL — STATE OF CALIFORNIA

APPROVED BY:

CITY OF FRESNO – TRAFFIC ENGINEERING DATE

FRESNO METROPOLITAN FLOOD CONTROL DISTRICT DATE

REV.	DATE	DESCRIPTION	BY	APRVL

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

WARNING POWERLINES OVERHEAD

BY: QK
WWW.QKINC.COM
1–800–955–7599
BAKERSFIELD, CLOVIS, HANFORD, MERCED, PORTERVILLE, VISALIA
© COPYRIGHT BY QUAD KNOPF, INC. UNAUTHORIZED USE PROHIBITED.

PW FILE NO. 2
PROJ. ID. 2
FUND. NO.
ORG. NO.
REF. & REV.

CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS

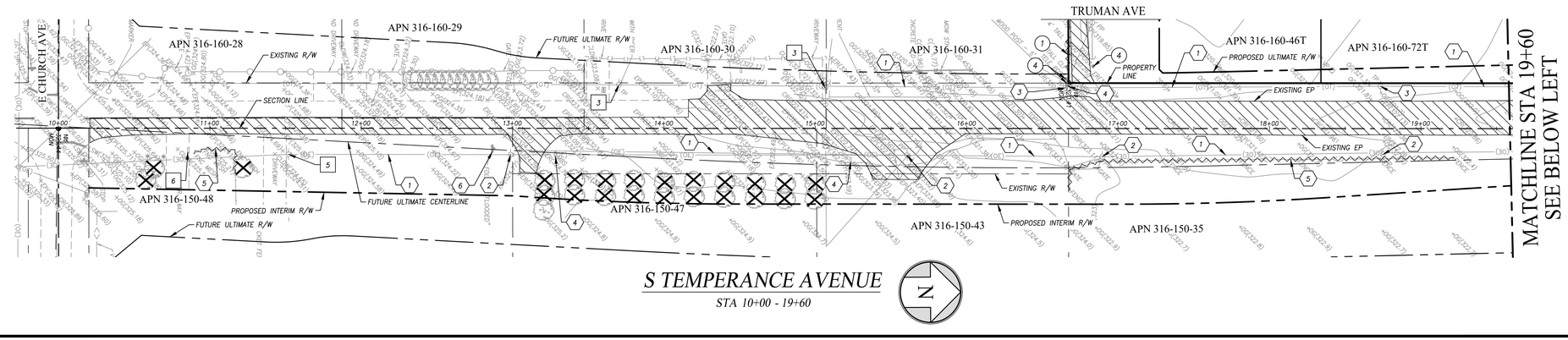
PLANS AND SPECIFICATIONS FOR THE DEVELOPMENT OF STREETS TEMPERANCE ELEMENTARY SCHOOL COVER SHEET

REVIEWED:
OFFICE ENG. _____ CITY ENG. _____
DR. BY: DM,KK
CH. BY: _____
DATE: _____
SCALE: AS NOTED
SHEET NO. 1
OF 8 SHEETS
XX–X–XXXX

QK PROJECT 250125

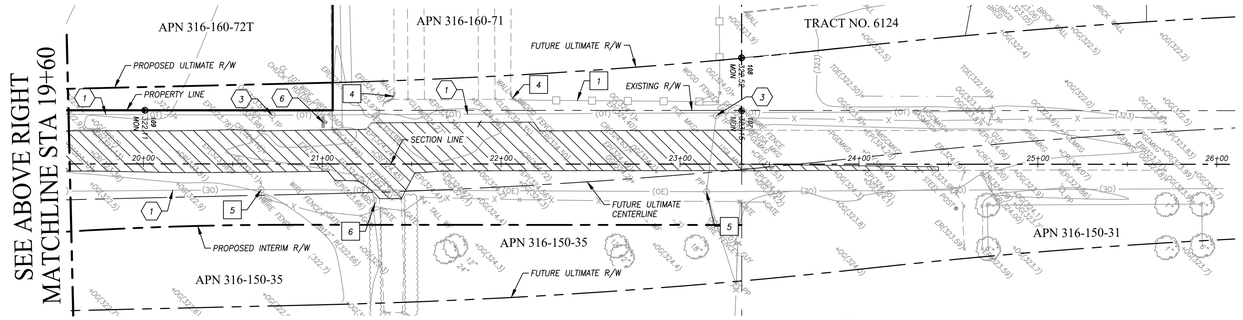
FOR BID PURPOSES ONLY - NOT FOR CONSTRUCTION

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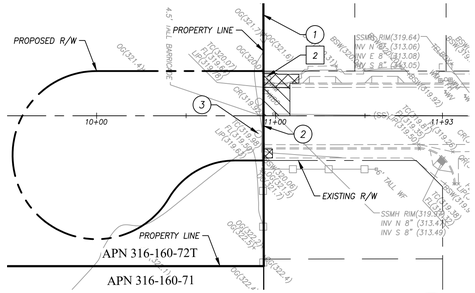
S TEMPERANCE AVENUE

STA 10+00 - 19+60



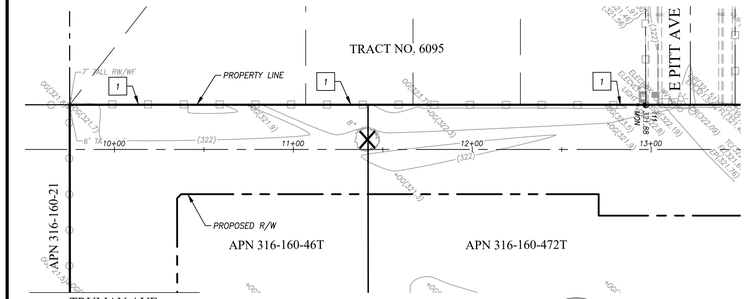
S TEMPERANCE AVENUE

STA 19+60 - 26+00



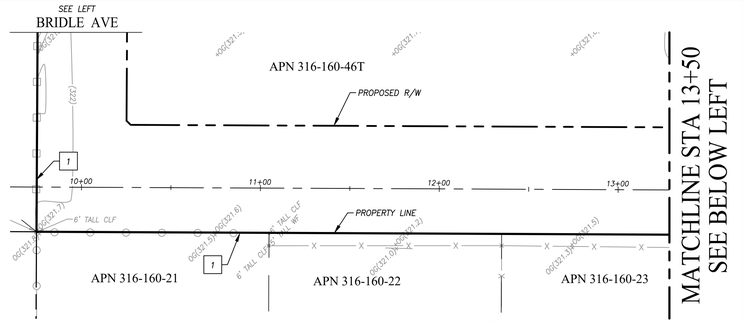
S ARROYO AVENUE

STA 10+00 - 11+93



BRIDLE AVENUE

STA 10+00 - 13+50



TRUMAN AVENUE

STA 10+00 - 13+50

TRUMAN AVENUE

STA 13+50 - 23+00

LEGEND

- EXISTING CONCRETE TO BE REMOVED
- EXISTING ASPHALT TO BE REMOVED
- EXISTING TREE TO BE REMOVED
- EXISTING FENCE TO BE REMOVED

PROTECTION KEYNOTES

1. EXISTING FENCE TO BE PROTECTED IN PLACE
2. EXISTING WATER METER TO BE ADJUSTED TO GRADE
3. EXISTING TELEPHONE POLE TO BE PROTECTED IN PLACE
4. EXISTING WALL TO BE PROTECTED IN PLACE
5. EXISTING POWER POLE TO BE PROTECTED IN PLACE
6. EXISTING MAILBOX TO BE PROTECTED IN PLACE

RELOCATION KEYNOTES

1. EXISTING OVERHEAD UTILITIES TO BE REMOVED AND RELOCATED PER SEPARATE PLAN
2. EXISTING POWER POLE TO BE REMOVED AND RELOCATED PER SEPARATE PLAN
3. EXISTING TELEPHONE POLE TO BE REMOVED AND RELOCATED PER SEPARATE PLAN
4. EXISTING MAILBOX TO BE REMOVED AND RELOCATED
5. EXISTING FENCE TO BE REMOVED AND RELOCATED
6. EXISTING STREET SIGN TO BE REMOVED AND RELOCATED

DEMOLITION KEYNOTES

1. EXISTING FENCE TO BE REMOVED
2. SAWCUT AND REMOVE 1FT OF PAVEMENT OR AS NEEDED TO CREATE A CLEAN EDGE
3. EXISTING BARRICADE TO BE REMOVED
4. EXISTING POST TO BE REMOVED

DEMOLITION NOTES

1. CONTRACTOR SHALL VERIFY ALL WELLS ARE ABANDONED.
2. CONTRACTOR TO MAKE REASONABLE SEARCH FOR ANY ADDITIONAL IRRIGATION LINES AND REMOVE THEM.
3. PER DEMO KEYNOTE #1, CONTRACTOR TO CONTACT ADJACENT PROPERTY OWNERS, PRIOR TO REMOVING FENCE, TO COORDINATE.

40' 0' 40'

SCALE: 1"= 40'

REGISTERED PROFESSIONAL ENGINEER LEE T. DWIGGINS NO. 61523 CIVIL STATE OF CALIFORNIA

DRAFT

REV.	DATE	DESCRIPTION	BY	APRVL

PW FILE NO. 2
PROJ. ID. 2
FUND. NO.
ORG. NO.
REF. & REV.

CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS

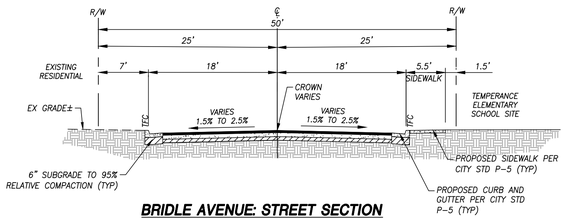
PLANS AND SPECIFICATIONS FOR THE DEVELOPMENT OF STREETS
TEMPERANCE ELEMENTARY SCHOOL
DEMOLITION PLAN

REVIEWED:
OFFICE ENG. _____ CITY ENG. _____
DR. BY: DM,KK
CH. BY: _____
DATE: _____
SCALE: AS NOTED
SHEET NO. 2
OF 8 SHEETS
XX-X-XXXX

QK PROJECT 250125

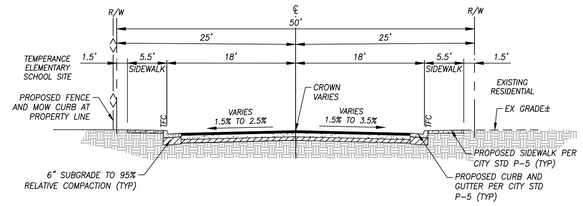
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BRIDLE AVENUE: STREET SECTION

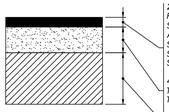
STA 10+00 TO STA 13+50
SCALE: 1" = 10'
T.I.=5.0, R=50



S ARROYO AVENUE: STREET SECTION

STA 10+00 TO STA 11+93
SCALE: 1" = 10'
T.I.=5.0, R=50

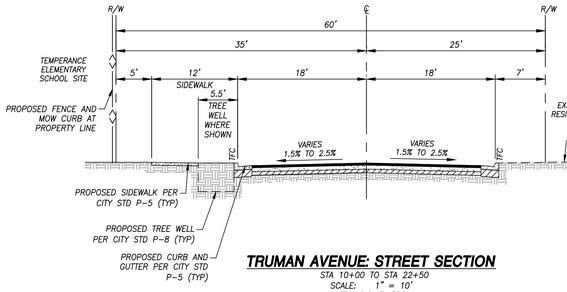
BRIDLE AVENUE AND S ARROYO AVENUE PERMANENT STREET PAVEMENT SECTION (T.I.=5.0, R=50):



2.5" MIN. HOT MIX ASPHALT (HMA) CONFORMING TO THE REQUIREMENTS FOR HMA, TYPE A, AS SPECIFIED IN STATE STANDARD SPECIFICATIONS UTILIZING 3/4" MAXIMUM AGGREGATE TO 95% RELATIVE COMPACTION. INDIVIDUAL LIFTS SHALL BE A MINIMUM THICKNESS OF 1.8". ASPHALT BINDER SHALL CONFORM TO PG 64-10 AS SPECIFIED IN THE STATE STANDARD SPECIFICATIONS, OVER

4" MINIMUM CLASS 2 AGGREGATE BASE CONFORMING TO THE PROVISIONS OF THE STATE STANDARD SPECIFICATIONS TO 95% RELATIVE COMPACTION, OVER

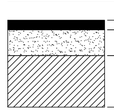
12" MINIMUM SUBGRADE TO 95% RELATIVE COMPACTION PER GEOTECHNICAL REPORT



TRUMAN AVENUE: STREET SECTION

STA 10+00 TO STA 22+50
SCALE: 1" = 10'
T.I.=6.0, R=50

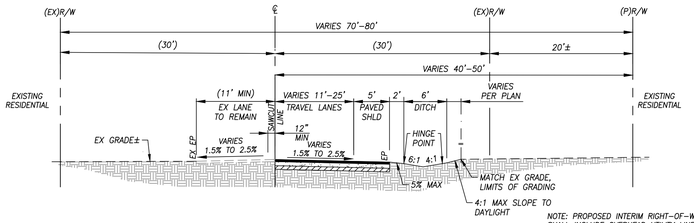
TRUMAN AVENUE PERMANENT STREET PAVEMENT SECTION (T.I.=6.0, R=50):



2.5" MIN. HOT MIX ASPHALT (HMA) CONFORMING TO THE REQUIREMENTS FOR HMA, TYPE A, AS SPECIFIED IN STATE STANDARD SPECIFICATIONS UTILIZING 3/4" MAXIMUM AGGREGATE TO 95% RELATIVE COMPACTION. INDIVIDUAL LIFTS SHALL BE A MINIMUM THICKNESS OF 1.8". ASPHALT BINDER SHALL CONFORM TO PG 64-10 AS SPECIFIED IN THE STATE STANDARD SPECIFICATIONS, OVER

6" MINIMUM CLASS 2 AGGREGATE BASE CONFORMING TO THE PROVISIONS OF THE STATE STANDARD SPECIFICATIONS TO 95% RELATIVE COMPACTION, OVER

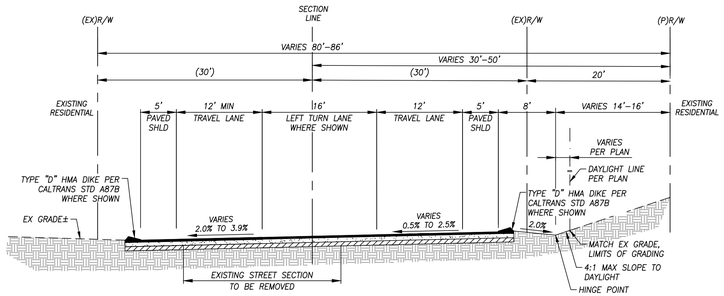
12" MINIMUM SUBGRADE TO 95% RELATIVE COMPACTION PER GEOTECHNICAL REPORT



NOTE: PROPOSED INTERIM RIGHT-OF-WAY SHALL INCLUDE OVERHEAD UTILITY LINES.

TEMPERANCE AVENUE: STREET SECTION 1

STA 10+50 TO STA 14+16
SCALE: 1" = 10'
T.I.=10.0, R=50

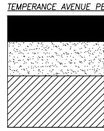


NOTE: PROPOSED INTERIM RIGHT-OF-WAY SHALL INCLUDE OVERHEAD UTILITY LINES.

TEMPERANCE AVENUE: STREET SECTION 2

STA 14+16 TO STA 15+93
SCALE: 1" = 10'
T.I.=10.0, R=50

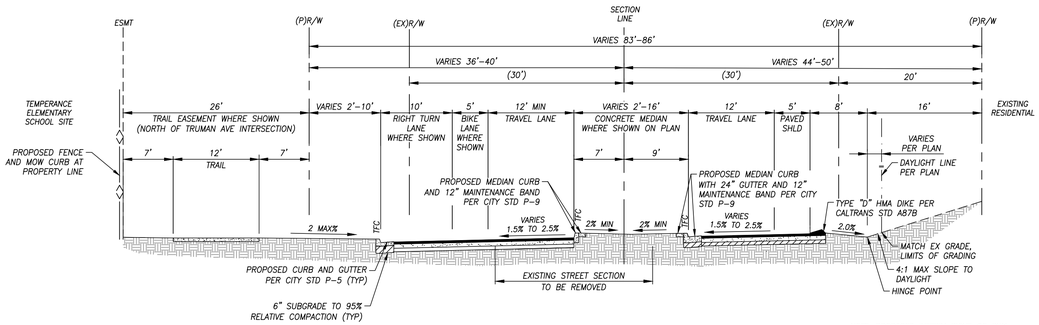
TEMPERANCE AVENUE PERMANENT STREET PAVEMENT SECTION (T.I.=10.0, R=50):



6" MIN. HOT MIX ASPHALT (HMA) CONFORMING TO THE REQUIREMENTS FOR HMA, TYPE A, AS SPECIFIED IN STATE STANDARD SPECIFICATIONS UTILIZING 3/4" MAXIMUM AGGREGATE TO 95% RELATIVE COMPACTION. INDIVIDUAL LIFTS SHALL BE A MINIMUM THICKNESS OF 1.8". ASPHALT BINDER SHALL CONFORM TO PG 64-10 AS SPECIFIED IN THE STATE STANDARD SPECIFICATIONS, OVER

8" MINIMUM CLASS 2 AGGREGATE BASE CONFORMING TO THE PROVISIONS OF THE STATE STANDARD SPECIFICATIONS TO 95% RELATIVE COMPACTION, OVER

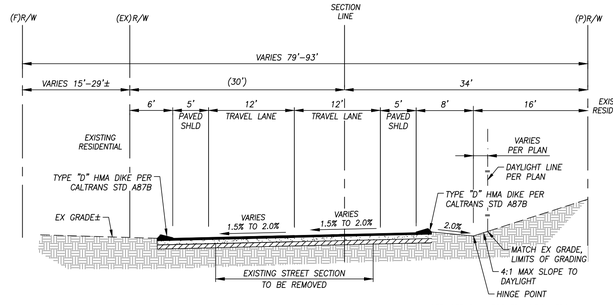
12" MINIMUM SUBGRADE TO 95% RELATIVE COMPACTION PER GEOTECHNICAL REPORT



NOTE: PROPOSED INTERIM RIGHT-OF-WAY SHALL INCLUDE OVERHEAD UTILITY LINES.

TEMPERANCE AVENUE: STREET SECTION 3

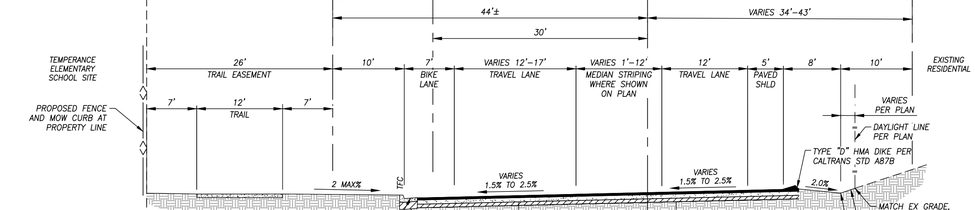
STA 15+93 TO STA 18+67
SCALE: 1" = 10'
T.I.=10.0, R=50



NOTE: SEE PLAN FOR TRANSITION FROM SUPERELEVATED ROAD TO CROWNED ROAD

TEMPERANCE AVENUE: STREET SECTION 5

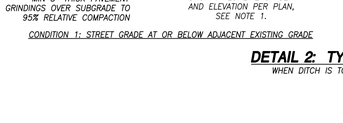
STA 21+05 TO STA 23+34
SCALE: 1" = 10'
T.I.=10.0, R=50



NOTE: PROPOSED INTERIM RIGHT-OF-WAY SHALL INCLUDE OVERHEAD UTILITY LINES.

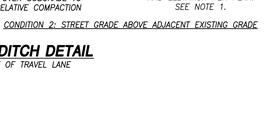
TEMPERANCE AVENUE: STREET SECTION 4

STA 18+67 TO STA 21+05



CONDITION 1: STREET GRADE AT OR BELOW ADJACENT EXISTING GRADE

OR

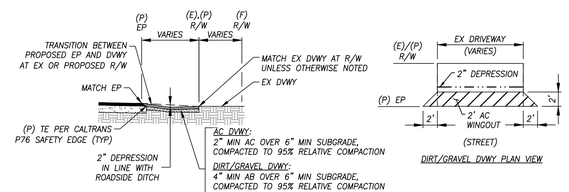


CONDITION 2: STREET GRADE ABOVE ADJACENT EXISTING GRADE

NOTES:
1. ROADSIDE DITCH ELEVATION INDICATED IN PLAN IS APPROXIMATE BASED ON AVAILABLE DATA. IT MAY BE NECESSARY TO ADJUST THE ELEVATION TO MAINTAIN 6" MIN (8" PREFERABLE) PONDING. 6" PONDING DEPTH IS TO BE MAINTAINED TO THE MAXIMUM EXTENT POSSIBLE, HOWEVER AT NO TIME SHALL THE MAXIMUM SIDE SLOPE BE EXCEEDED.
2. AN APPROXIMATE 5FT WIDE BREAK SHALL BE MADE EVERY ±50LF OF DITCH TO ENSURE DITCHES DO NOT DRAIN DOWNHILL.
3. APPROXIMATE LIMITS OF TEMPORARY CONSTRUCTION EASEMENT, IF APPLICABLE.

DETAIL 2: TYPICAL ROADSIDE DITCH DETAIL

WHEN DITCH IS TO BE CONSTRUCTED WITHIN 8FT OF TRAVEL LANE
NOT TO SCALE



DETAIL 1: TYPICAL DRIVEWAY RECONSTRUCTION DETAIL

NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER ALEX T. DIMKOV No. 61523 CIVIL STATE OF CALIFORNIA

DRAFT

FOR BID PURPOSES ONLY - NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY	APRVL

PW FILE NO. 2
PROJ. ID. 2
FUND. NO.
ORG. NO.
REF. & REV.

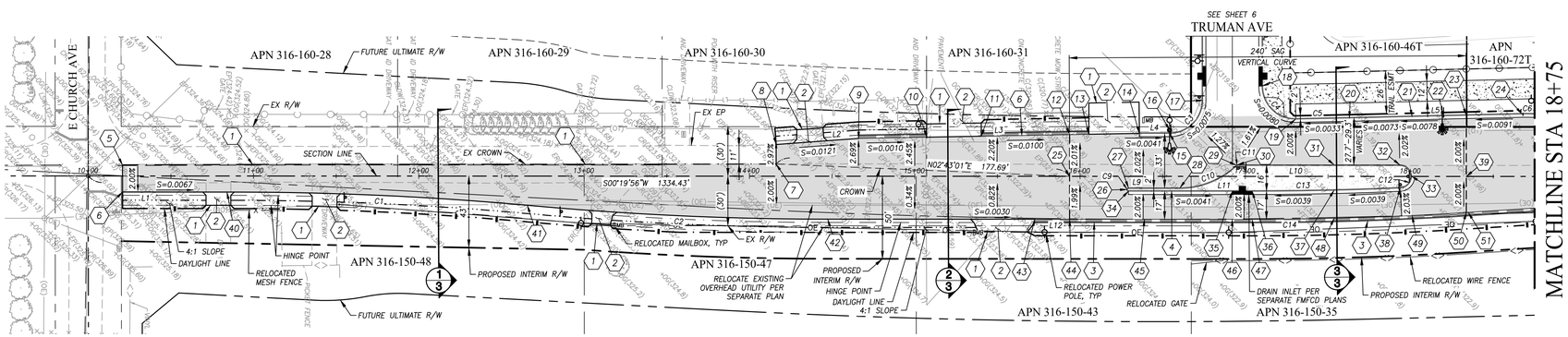
CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS

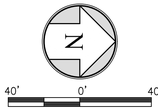
PLANS AND SPECIFICATIONS FOR THE DEVELOPMENT OF STREETS TEMPERANCE ELEMENTARY SCHOOL SECTIONS

REVIEWED:
OFFICE ENG. _____ CITY ENG. _____
DR. BY: DM,KK
CH. BY:
DATE:
SCALE: AS NOTED
SHEET NO. 3
OF 8 SHEETS
XX-X-XXXX

CK PROJECT 250125

L:\PROJECTS\2025\250125\ACAD\IMPROVEMENTS\STREET IMPROVEMENT PLANS\250125-STFP-XSEC.DWG 9/11/2026 2:55 PM





LEGEND:

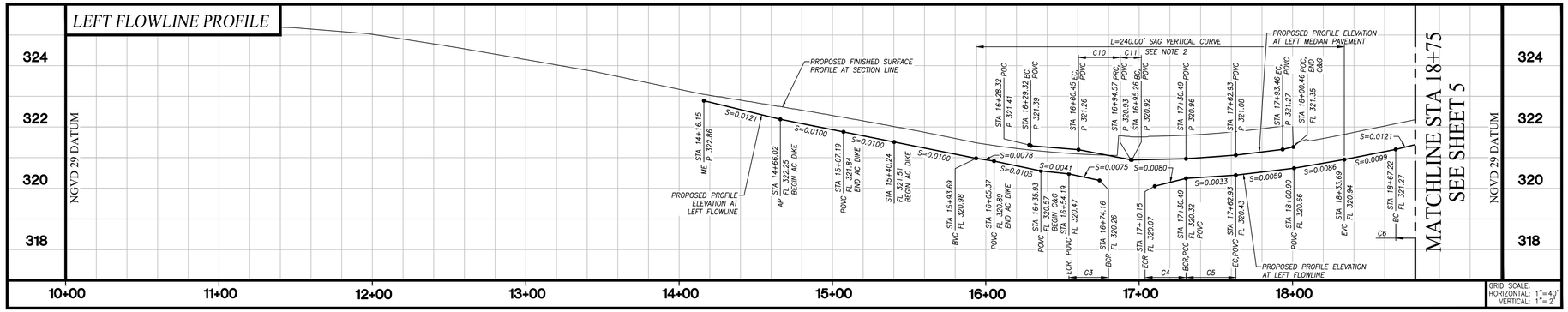
- FMFCD TYPE 'D' INLET, PER SEPARATE PLAN
- CURB RAMP PER CITY STD P-28 AND P-32
- STREETLIGHT PER SEPARATE PLAN
- SIGNAGE PER SIGNING AND STRIPING PLAN
- RELOCATED POWER POLE PER SEPARATE PLAN
- MB RELOCATED MAILBOX
- INSTALL INTERIM FULL DEPTH AC PAVING
- CONCRETE SIDEWALK PER CITY STD P-5
- SAWCUT LINE
- GRADE BREAK LINE
- GRADING HINGE LINE
- GRADING DAYLIGHT LINE
- DITCH
- CURB AND GUTTER PER CITY STD P-5
- TYPE "D" AC DIKE PER CALTRANS STD A87B

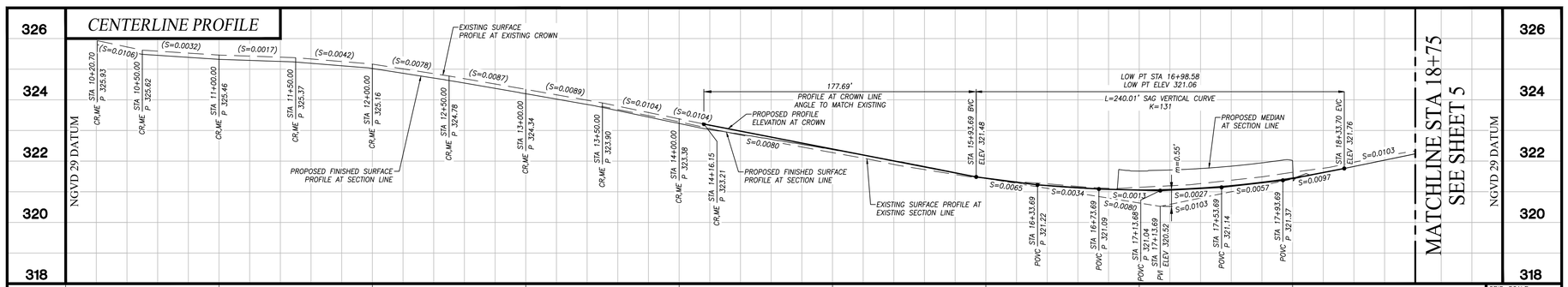
KEYNOTES:

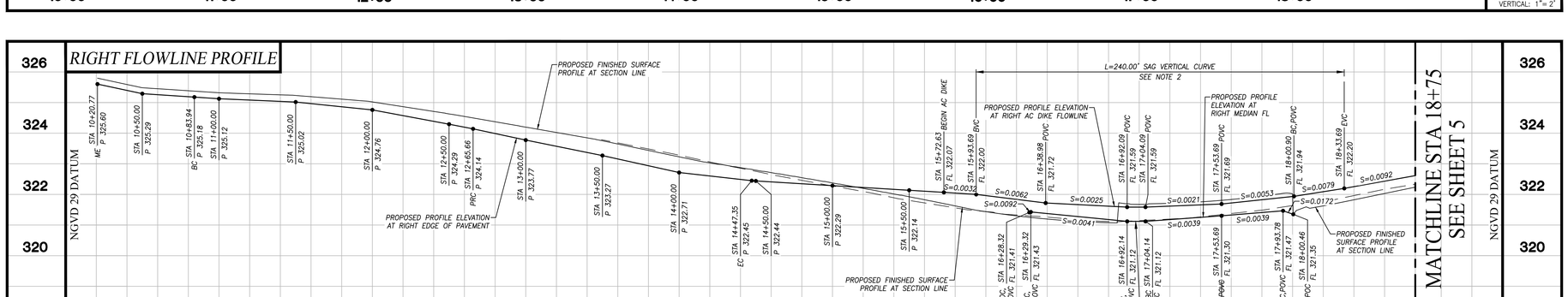
1. SAWCUT LINE
2. RECONSTRUCT DRIVEWAY PER DETAIL 1 ON SHEET 3
3. AC DIKE PER CALTRANS STD A87B, TYPE D
4. MEDIAN CURB CITY STD P-9, REFER TO CROSS SECTION 3 ON SHEET 3
5. STA 10+20.70, 6.65' L — CR,ME — P 325.93
6. STA 10+20.77, 9.71' R — ME — P 325.60
7. STA 14+16.15, 7.39' L — CR,ME — P 323.21
8. STA 14+16.15, 19.20' L — ME — P 322.86
9. STA 14+66.02, 22.91' L — AP,BEGIN AC DIKE — FL 322.25
10. STA 15+07.19, 23.66' L — END AC DIKE — FL 321.84
11. STA 15+40.24, 24.26' L — BEGIN AC DIKE — FL 321.51
12. STA 15+93.69, 25.23' L — BVC — FL 320.98
13. STA 16+05.37, 25.44' L — END AC DIKE,POVC — FL 320.89
14. STA 16+35.93, 26.00' L — BEGIN C&G,POVC — TC 321.07 — FL 320.57
15. STA 16+54.16, 26.00' L — ECR,POVC — TC 320.97 — FL 320.47
16. STA 16+54.16, 28.00' L — STREETLIGHT
17. TC 320.76 — FL 320.26 — BCR
18. TC 320.57 — FL 320.07 — ECR
19. STA 17+30.49, 34.71' L — BCR, PCC, POVC — TC 320.82 — FL 320.32
20. STA 17+62.93, 35.37' L — EC,POVC — TC 320.93 — FL 320.43
21. STA 18+00.90, 36.27' L — POVC — TC 321.16 — FL 320.66
22. STA 18+19.16, 38.70' L — STREETLIGHT
23. STA 18+33.69, 37.04' L — EVC — TC 321.44 — FL 320.94
24. STA 18+67.22, 37.84' L — BC — TC 321.77 — FL 321.27
25. STA 15+93.69, 0.00' — BVC,CR,AP — P 321.48
26. STA 16+28.32, 8.00' R — POC,POVC — TC 322.08 — P 321.41
27. STA 16+29.32, 7.00' R — BC,POVC — TC 322.05 — P 321.39
28. STA 16+60.45, 7.00' R — EC,POVC — TC 321.93 — P 321.26
29. STA 16+94.57, 6.73' L — PRC,POVC — TC 321.60 — P 320.93
30. STA 16+95.26, 7.00' L — BC,POVC — TC 321.59 — P 320.92
31. STA 17+53.69, 7.00' L — POVC — TC 321.71 — P 321.04
32. STA 17+93.46, 7.00' L — EC,POVC — TC 321.93 — P 321.27
33. STA 18+00.46, 0.16' L — POC,END C&G — TC 322.02 — FL 321.35
34. STA 16+29.32, 9.00' R — EC,BEGIN C&G,POVC — TC 322.09 — FL 321.43
35. STA 16+92.14, 9.00' R — CB,POVC — TC 321.79 — FL 321.12
36. STA 17+04.14, 9.00' R — CB,BC,POVC — TC 321.79 — FL 321.12
37. STA 17+53.69, 9.00' R — POVC — TC 321.97 — FL 321.30
38. STA 17+93.78, 6.99' R — BC,POVC — TC 322.13 — FL 321.47
39. STA 18+33.69, 0.00' — EVC — P 321.76
40. STA 10+83.94, 9.72' R — BC — P 325.18
41. STA 12+65.66, 17.66' R — PRC — P 324.14
42. STA 14+47.35, 26.00' R — EC — P 322.45
43. STA 15+72.63, 26.00' R — BEGIN AC DIKE — FL 322.07
44. STA 15+93.69, 26.00' R — BVC — FL 322.00
45. STA 16+38.98, 26.00' R — POVC — FL 321.72
46. STA 16+92.09, 26.00' R — POVC — FL 321.59
47. STA 17+04.09, 26.00' R — POVC — FL 321.59
48. STA 17+53.69, 25.39' R — POVC — FL 321.69
49. STA 18+00.90, 23.68' R — BC,POVC — FL 321.94
50. STA 18+33.69, 21.84' R — EVC — FL 322.20
51. STA 18+34.84, 21.76' R — EC,POVC — FL 322.21

S TEMPERANCE AVENUE

STA 10+00 - 18+75







LINE TABLE

LINE #	LENGTH	BEARING
L1	63.164	S00° 20' 11.68"W
L2	50.000	S03° 55' 29.56"E
L3	169.941	S00° 42' 34.32"E
L4	18.230	S00° 19' 56.16"W
L5	104.326	S01° 01' 15.84"E
L6	166.973	S01° 01' 15.84"E
L7	11.486	S89° 44' 11.92"E
L8	228.569	N00° 19' 56.16"E
L9	30.840	N00° 19' 56.16"E
L10	98.201	N00° 19' 56.16"E
L11	74.878	S00° 19' 56.16"W
L12	256.847	N00° 19' 56.16"E
L13	117.348	N03° 22' 53.10"W
L14	110.165	N03° 04' 57.37"W
L14	254.073	N00° 19' 56.16"E

CURVE TABLE

CURVE #	RADIUS	LENGTH	DELTA
C1	2085.96'	184.12'	5°03'26"
C2	1983.00'	179.78'	5°11'40"
C3	20.00'	31.44'	90°04'17"
C4	20.00'	31.73'	90°54'21"
C5	4940.00'	32.44'	0°22'35"
C6	120.27'	31.08'	14°48'22"
C7	120.00'	31.05'	14°49'36"
C8	3449.00'	10.07'	0°10'02"
C9	1.00'	3.14'	180°00'00"
C10	50.00'	37.95'	43°29'25"
C11	1.00'	0.76'	43°29'25"
C12	7.00'	21.68'	177°25'59"
C13	2000.00'	89.61'	2°34'01"
C14	2017.00'	130.73'	3°42'49"
C15	1983.00'	128.53'	3°42'49"

NOTES:

1. CENTERLINE STATIONING IN SOUTH TEMPERANCE AVENUE IS ALONG THE SECTION LINE
2. POINTS ON VERTICAL CURVE, POVC, ARE OFFSET AND RELATIVE TO THE VERTICAL CURVE AT SECTION LINE.

REV.	DATE	DESCRIPTION	BY	APRVL

REGISTERED PROFESSIONAL ENGINEER — ALEX T. DIKICHIAN — DRAFT — NO. 61523 — CIVIL — STATE OF CALIFORNIA

PW FILE NO.	2
PROJ. ID.	2
FUND. NO.	
ORG. NO.	
REF. & REV.	

CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS

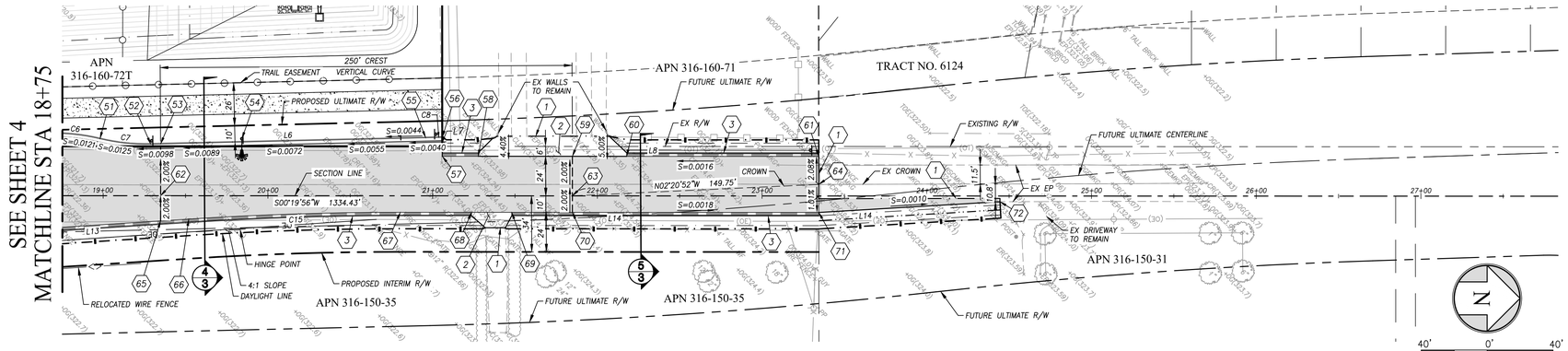
PLANS AND SPECIFICATIONS FOR THE DEVELOPMENT OF STREETS
TEMPERANCE ELEMENTARY SCHOOL
TEMPERANCE AVENUE
STA 10+00 - 18+75

REVIEWED:
OFFICE ENG. _____ CITY ENG. _____
DR. BY: DM,KK — SHEET NO. 4
CH. BY: _____ OF 8 SHEETS
DATE: _____ XX-X-XXXX
SCALE: AS NOTED

OK PROJECT 250125

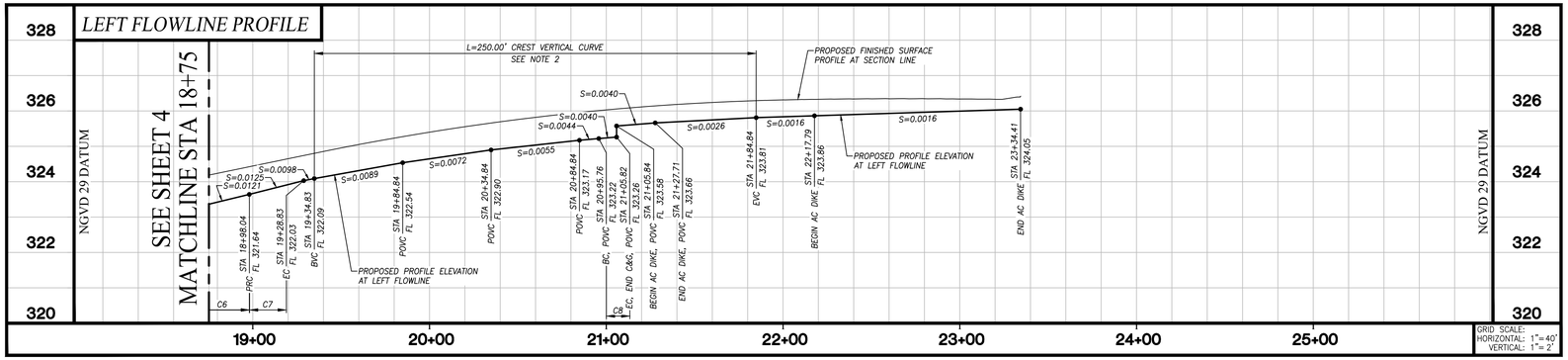
FOR BID PURPOSES ONLY - NOT FOR CONSTRUCTION

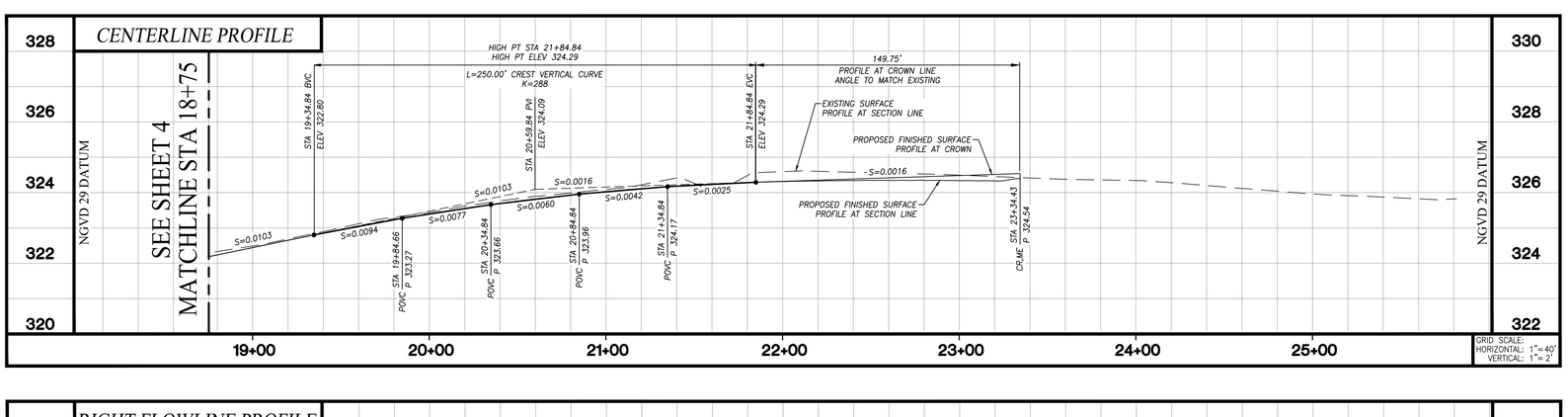
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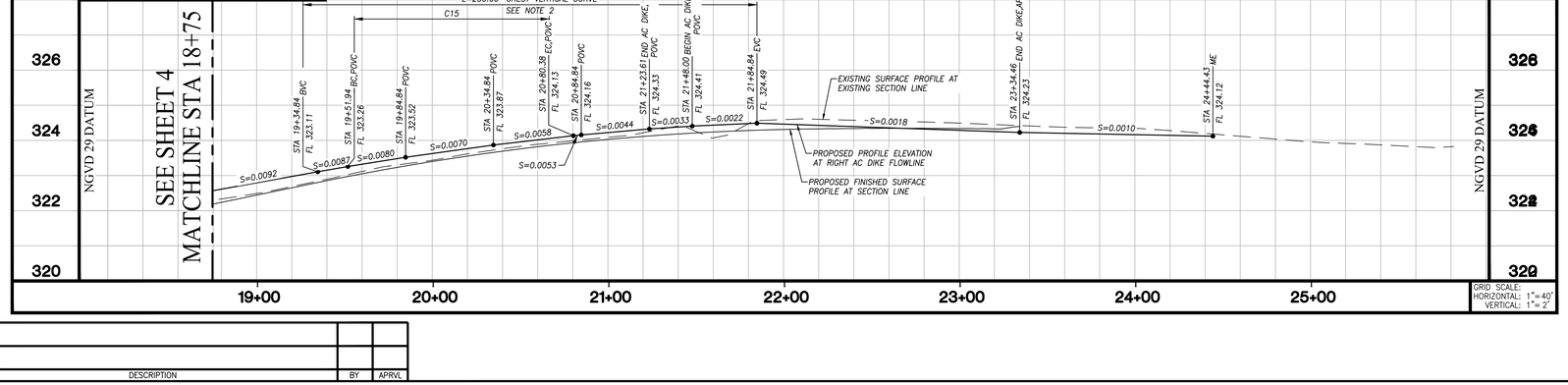


S TEMPERANCE AVENUE

STA 18+75 - 24+50







LEGEND:

- FMFCD TYPE 'D' INLET, PER SEPARATE PLAN
- CURB RAMP PER CITY STD P-28 AND P-32
- STREETLIGHT PER SEPARATE PLAN
- SIGNAGE PER SIGNING AND STRIPING PLAN
- RELOCATED POWER POLE PER SEPARATE PLAN
- MB RELOCATED MAILBOX
- INSTALL INTERIM FULL DEPTH AC PAVING
- CONCRETE SIDEWALK PER CITY STD P-5
- SAWCUT LINE
- GRADE BREAK LINE
- GRADING HINGE LINE
- GRADING DAYLIGHT LINE
- DITCH
- CURB AND GUTTER PER CITY STD P-5
- TYPE "D" AC DIKE PER CALTRANS STD A87B

KEYNOTES:

1. SAWCUT LINE
2. RECONSTRUCT DRIVEWAY PER DETAIL 1 ON SHEET 3
3. AC DIKE PER CALTRANS STD A87B, TYPE D
51. STA 18+98.04, 34.56' L — PRC; TC 322.14; FL 321.64
52. STA 19+28.83, 31.29' L — EC; TC 322.53; FL 322.03
53. STA 19+34.84, 31.43' L — BVC; TC 322.59; FL 322.09
54. STA 19+84.16, 34.60' L — STREETLIGHT
55. STA 20+95.76, 35.23' L — BC,POVC; TC 323.72; FL 323.22
56. STA 21+05.82, 35.46' L — END C&G,EC,POVC; TC 323.76; FL 323.26
57. STA 21+05.83, 24.00' L — BEGIN AC DIKE,POVC; FL 323.58
58. STA 21+27.71, 24.00' L — END AC DIKE,POVC; FL 323.66
59. STA 21+84.84, 24.00' L — EVC; P 323.81
60. STA 22+17.79, 24.00' L — BEGIN AC DIKE; FL 323.86
61. STA 23+34.41, 24.00' L — END AC DIKE; FL 324.05
62. STA 19+34.84, 0.00' — BVC; P 322.80
63. STA 21+84.84, 0.00' — EVC,CR,AP; P 324.29
64. STA 23+34.43, 7.00' L — CR,ME; P 324.54
65. STA 19+34.84, 15.27' R — BVC; FL 323.11
66. STA 19+51.94, 14.16' R — BC,POVC; FL 323.26
67. STA 20+80.38, 10.00' R — EC,POC,POVC; FL 324.13
68. STA 21+23.61, 10.00' R — END AC DIKE,POVC; FL 324.33
69. STA 21+48.00, 10.00' R — BEGIN AC DIKE,POVC; FL 324.41
70. STA 21+84.84, 10.00' R — EVC; FL 324.49
71. STA 23+34.46, 10.00' R — END AC DIKE,AP; FL 324.23
72. STA 24+44.43, 3.44' R — ME; P 324.12

LINE TABLE

LINE #	LENGTH	BEARING
L1	63.164	S00° 20' 11.68"W
L2	50.000	S03° 55' 29.56"E
L3	169.941	S00° 42' 34.32"E
L4	18.230	S00° 19' 56.16"W
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L8	228.569	N00° 19' 56.16"E
L9	30.840	N00° 19' 56.16"E
L10	98.201	N00° 19' 56.16"E
L11	74.878	S00° 19' 56.16"W
L12	256.847	N00° 19' 56.16"E
L13	117.348	N03° 22' 53.10"W
L14	110.165	N03° 04' 57.37"W
L14	254.073	N00° 19' 56.16"E

CURVE TABLE

CURVE #	RADIUS	LENGTH	DELTA
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C2	1983.00'	179.78'	5°11'40"
C3	20.00'	31.44'	90°04'17"
C4	20.00'	31.73'	90°54'21"
C5	4940.00'	32.44'	0°22'35"
C6	120.27'	31.08'	14°48'22"
C7	120.00'	31.05'	14°49'36"
C8	3449.00'	10.07'	0°10'02"
C9	1.00'	3.14'	180°00'00"
C10	50.00'	37.95'	43°29'25"
C11	1.00'	0.76'	43°29'25"
C12	7.00'	21.68'	177°25'59"
C13	2000.00'	89.61'	2°34'01"
C14	2017.00'	130.73'	3°42'49"
C15	1983.00'	128.53'	3°42'49"

NOTES:

1. CENTERLINE STATIONING IN SOUTH TEMPERANCE AVENUE IS ALONG THE SECTION LINE
2. POINTS ON VERTICAL CURVE, POVC, ARE OFFSET AND RELATIVE TO THE VERTICAL CURVE AT SECTION LINE.

REGISTERED PROFESSIONAL ENGINEER — KEN T. DWIGGINS — DRAFT — NO. 61523 — CIVIL — STATE OF CALIFORNIA

REV.	DATE	DESCRIPTION	BY	APRVL

PW FILE NO. 2
PROJ. ID. 2
FUND. NO.
ORG. NO.
REF. & REV.

CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS

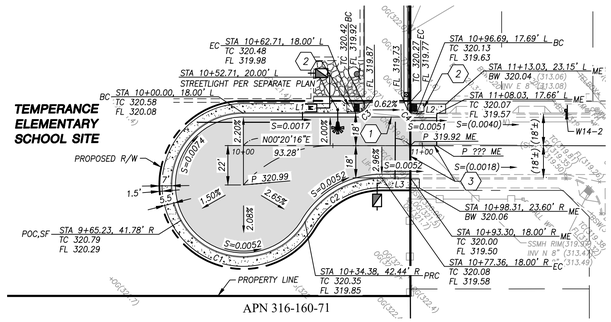
PLANS AND SPECIFICATIONS FOR THE DEVELOPMENT OF STREETS TEMPERANCE ELEMENTARY SCHOOL TEMPERANCE AVENUE STA 18+75 - 24+50

REVIEWED:
OFFICE ENG. _____ CITY ENG. _____
DR. BY: DM
CH. BY: _____
DATE: _____
SCALE: AS NOTED
SHEET NO. 5
OF 8 SHEETS
XX-X-XXXX

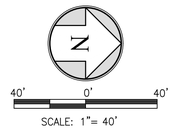
FOR BID PURPOSES ONLY - NOT FOR CONSTRUCTION

OK PROJECT 250125

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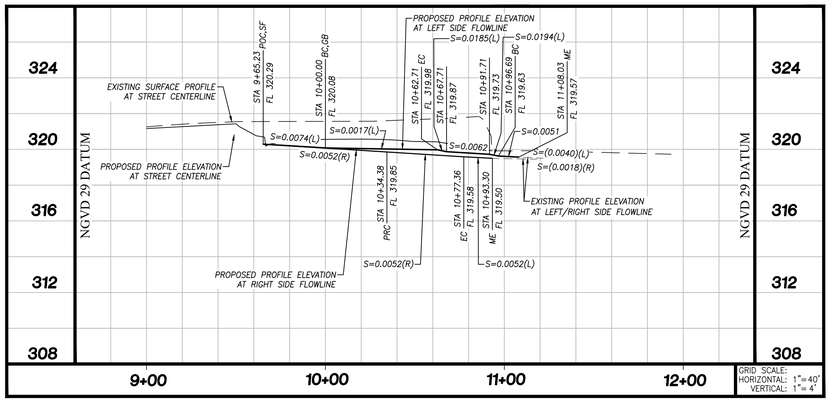
APN 316-160-71



SCALE: 1"= 40'

S ARROYO AVENUE

STA 9+50 - 11+00



LEGEND:

- SAWCUT LINE
- GRADE BREAK LINE
- INSTALL FULL DEPTH AC PAVING
- INSTALL CONCRETE SIDEWALK PER CITY STD P-5
- MODIFIED CURB RAMP PER CITY STD P-29 AND P-32
- STREETLIGHT PER SEPARATE PLAN

KEYNOTES:

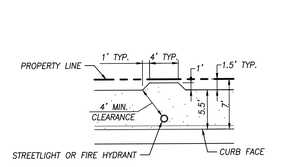
1. CONCRETE VALLEY GUTTER PER CITY STD P-10
2. MODIFIED CURB RAMP PER CITY STD P-29 AND P-32
3. SAWCUT AND REMOVE MIN 1' WIDE OF EXISTING PAVEMENT (OR TO LIMITS OF DAMAGE) TO ENSURE A CLEAN TRANSITION FROM EXISTING TO NEW PAVEMENT. PAVEMENT JOINT SHALL BE WITHIN 0.5' OF LANE LINE OR AS DETERMINED BY CITY CONSTRUCTION MANAGEMENT

LINE TABLE

LINE #	LENGTH	BEARING
L1	62.707	N00° 20' 16.00"E
L2	11.331	S00° 30' 40.71"W
L3	15.946	N00° 20' 16.00"E

CURVE TABLE

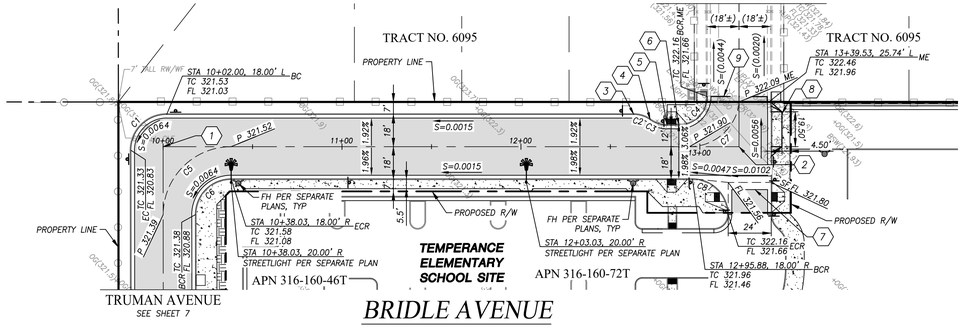
CURVE #	RADIUS	LENGTH	DELTA
C1	40.00'	167.04'	239°15'44"
C2	50.00'	51.72'	59°15'44"
C3	5.00'	7.86'	90°05'04"
C4	5.00'	7.83'	89°44'59"



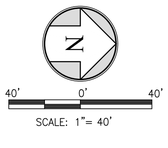
NOTE: TO BE USED AT ALL STREETLIGHT AND FIRE HYDRANT LOCATIONS TO PROVIDE A MINIMUM OF 4' UNOBSTRUCTED SIDEWALK.

SIDEWALK MINIMUM CLEARANCE DETAIL

SCALE: 1" = 10'



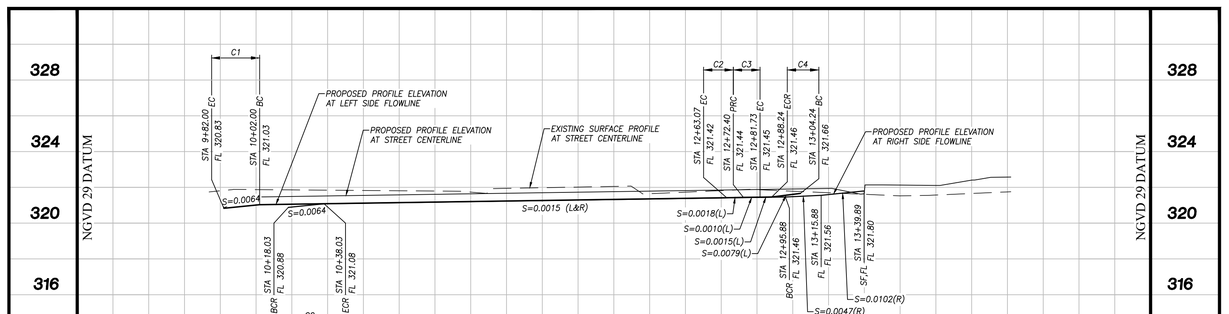
TEMPERANCE ELEMENTARY SCHOOL SITE



SCALE: 1"= 40'

BRIDLE AVENUE

STA 9+50 - 13+50



LEGEND:

- GRADE BREAK LINE
- INSTALL FULL DEPTH AC PAVING
- INSTALL CONCRETE SIDEWALK PER CITY STD P-5
- CURB RAMP PER CITY STD P-28 AND P-32
- MODIFIED CURB RAMP PER CITY STD P-29 AND P-32
- STREETLIGHT PER SEPARATE PLAN

CURVE TABLE

CURVE #	RADIUS	LENGTH	DELTA
C1	20.00'	31.43'	90°03'04"
C2	16.00'	9.96'	35°39'33"
C3	16.00'	9.96'	35°39'33"
C4	16.00'	25.10'	89°53'25"
C5	38.00'	59.72'	90°03'04"
C6	20.00'	31.43'	90°03'04"
C7	28.00'	39.71'	81°16'00"
C8	20.00'	31.59'	90°28'55"

KEYNOTES:

1. BRIDLE AVE, STA 10+00.00= TRUMAN AVE, STA 10+00.00 P 321.46
2. E PITT AVE, STA 11+55.78= BRIDLE AVE, STA 13+21.91 P 321.94
3. STA 12+63.07, 18.00' L EC TC 321.92 FL 321.42
4. STA 12+72.25, 15.11' L PRC TC 321.94 FL 321.44
5. STA 12+81.73, 12.00' L BC TC 321.95 FL 321.45
6. STA 12+88.24, 12.00' L ECR TC 321.96 FL 321.46
7. CONCRETE VALLEY GUTTER PER CITY STD P-10
8. COMMERCIAL DRIVEWAY PER CITY STD P-6 WITH 10' PATTERN PER CITY STD P-2
9. SAWCUT

REGISTERED PROFESSIONAL ENGINEER LEE T. DWIGGINS NO. 61523 CIVIL STATE OF CALIFORNIA

DRAFT

REV.	DATE	DESCRIPTION	BY	APRVL

PW FILE NO.	2
PROJ. ID.	2
FUND. NO.	
ORG. NO.	
REF. & REV.	

CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS

PLANS AND SPECIFICATIONS FOR THE DEVELOPMENT OF STREETS TEMPERANCE ELEMENTARY SCHOOL ARROYO AVENUE AND BRIDLE AVENUE

REVIEWED: OFFICE ENG. _____ CITY ENG._____

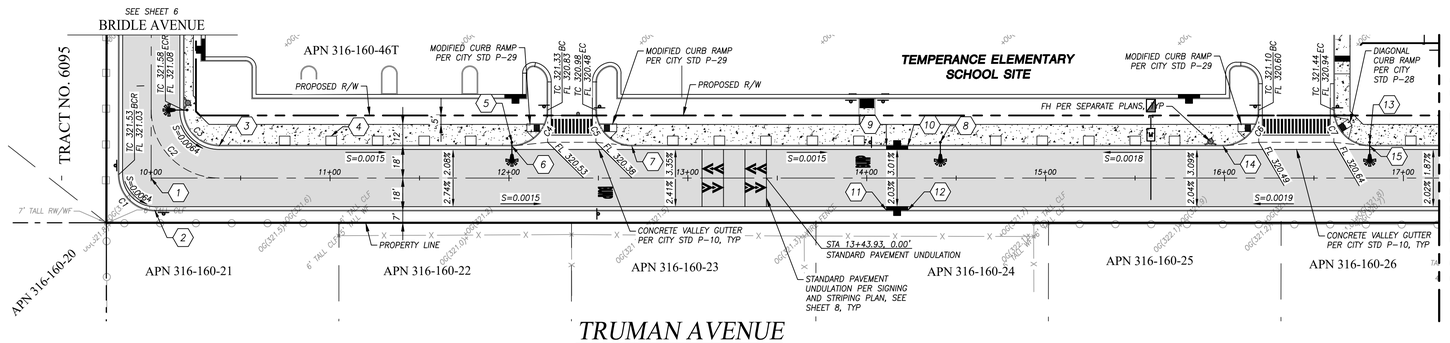
DR. BY: DM,KK | SHEET NO. 6 OF 8 SHEETS

CH. BY:_____ | DATE:_____ | SCALE: AS NOTED | XX-X-XXXX

QK PROJECT 250125

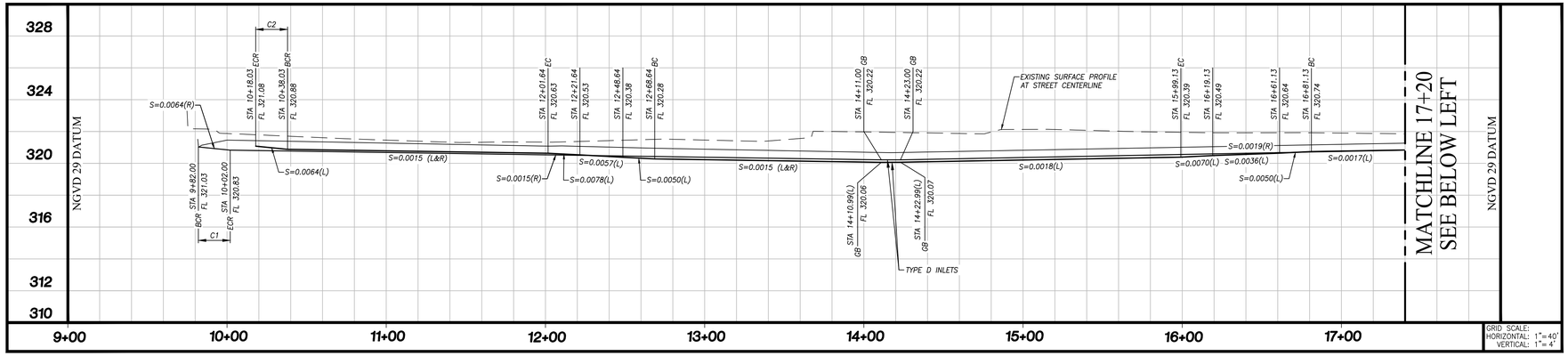
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TRUMAN AVENUE

STA 9+00 - 17+20



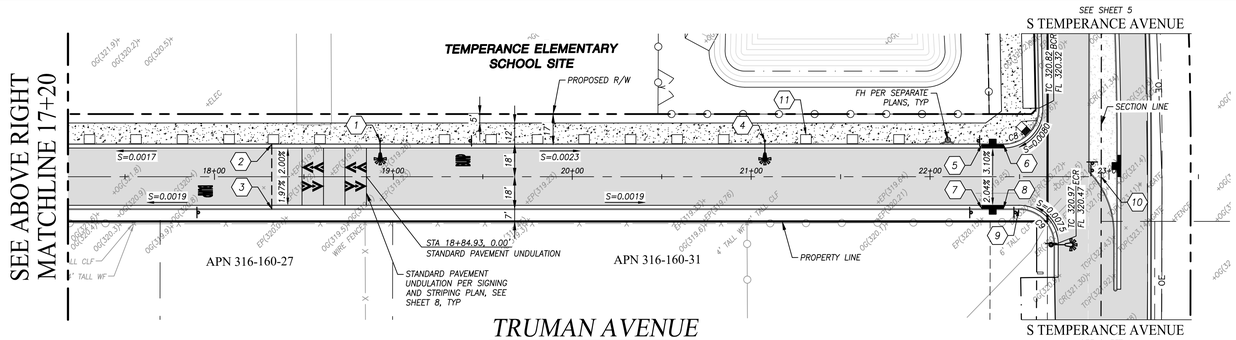
LEGEND:

- GRADE BREAK LINE
- INSTALL FULL DEPTH AC PAVING
- INSTALL CONCRETE SIDEWALK PER CITY STD P-5
- FMFCD TYPE 'D' INLET, PER SEPARATE PLAN
- CURB RAMP PER CITY STD P-28 AND P-32
- MODIFIED CURB RAMP PER CITY STD P-29 AND P-32
- STREETLIGHT PER SEPARATE PLAN

KEYNOTES:

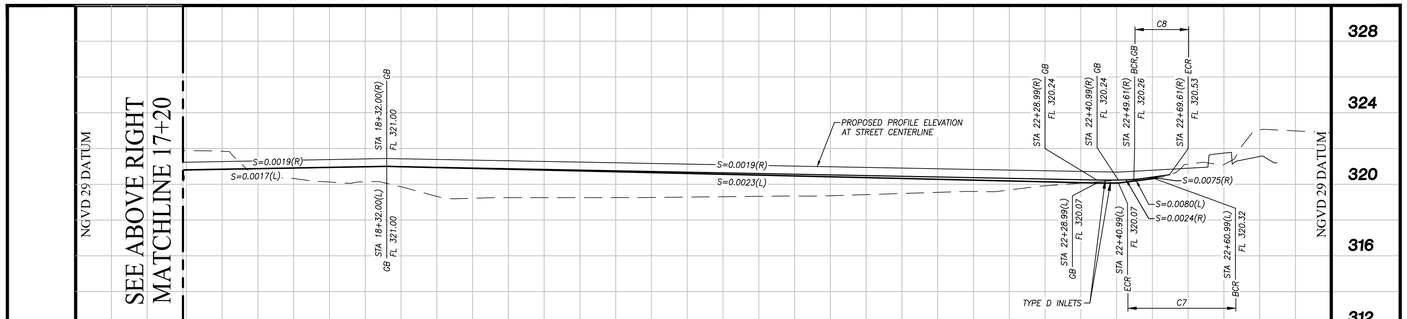
1. TRUMAN AVE, STA 10+00.00= BRIDLE AVE, STA 10+00.00 P 321.46
2. STA 10+02.00, 18.00' R ECR TC 321.53 FL 320.83
3. STA 10+38.03, 18.00' L BCR TC 321.38 FL 320.88
4. 5'x6' TREE WELL PER CITY STD P-8, TYP
5. STA 12+01.64, 20.00' L STREETLIGHT PER SEPARATE PLANS
6. STA 12+01.64, 18.00' L EC TC 321.13 FL 320.63
7. STA 12+68.64, 18.00' L BC TC 320.78 FL 320.28
8. STA 14+41.13, 20.00' L STREETLIGHT PER SEPARATE PLANS
9. STA 14+10.99, 18.00' L GB TC 320.56 FL 320.06
10. STA 14+22.99, 18.00' L GB TC 320.57 FL 320.07
11. STA 14+11.00, 18.00' R GB TC 320.72 FL 320.22
12. STA 14+23.00, 18.00' R GB TC 320.72 FL 320.22
13. STA 16+81.13, 20.00' L STREETLIGHT PER SEPARATE PLANS
14. STA 15+99.13, 18.00' L EC TC 320.89 FL 320.39
15. STA 16+81.13, 18.00' L BC TC 321.24 FL 320.74

CURVE TABLE			
CURVE #	RADIUS	LENGTH	DELTA
C1	20.00'	31.43'	90°03'04"
C2	38.00'	59.72'	90°03'04"
C3	20.00'	31.43'	90°03'04"
C4	20.00'	31.42'	90°00'00"
C5	20.00'	31.42'	90°00'00"
C6	20.00'	31.43'	90°03'04"
C7	20.00'	31.42'	90°00'00"



TRUMAN AVENUE

STA 17+20 - 23+50



LEGEND:

- GRADE BREAK LINE
- INSTALL FULL DEPTH AC PAVING
- INSTALL CONCRETE SIDEWALK PER CITY STD P-5
- FMFCD TYPE 'D' INLET, PER SEPARATE PLAN
- CURB RAMP PER CITY STD P-28 AND P-32
- MODIFIED CURB RAMP PER CITY STD P-29 AND P-32
- STREETLIGHT PER SEPARATE PLAN

KEYNOTES:

1. STA 18+92.61, 20.00' L STREETLIGHT PER SEPARATE PLANS
2. STA 18+32.00, 18.00' L GB TC 321.50 FL 321.00
3. STA 18+32.00, 18.00' R GB TC 321.50 FL 321.00
4. STA 21+07.61, 20.00' L STREETLIGHT PER SEPARATE PLANS
5. STA 22+28.99, 18.00' L GB TC 320.57 FL 320.07
6. STA 22+40.99, 18.00' L ECR,GB TC 320.57 FL 320.07
7. STA 22+28.99, 18.00' R GB TC 320.74 FL 320.24
8. STA 22+40.99, 18.00' R GB TC 320.74 FL 320.24
9. STA 22+49.61, 18.00' R BCR,GB TC 320.76 FL 320.26
10. TEMPERANCE AVE, STA 16+93.11= TRUMAN AVE, STA 22+95.65 P 321.70
11. 5'x6' TREE WELL PER CITY STD P-8, TYP

CURVE TABLE			
CURVE #	RADIUS	LENGTH	DELTA
C8	20.00'	31.73'	90°54'21"
C9	20.00'	31.41'	89°58'34"

REV.	DATE	DESCRIPTION	BY	APRVL

PW FILE NO. 2
PROJ. ID. 2
FUND. NO.
ORG. NO.
REF. & REV.

CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS

PLANS AND SPECIFICATIONS FOR THE DEVELOPMENT OF STREETS TEMPERANCE ELEMENTARY SCHOOL TRUMAN AVENUE

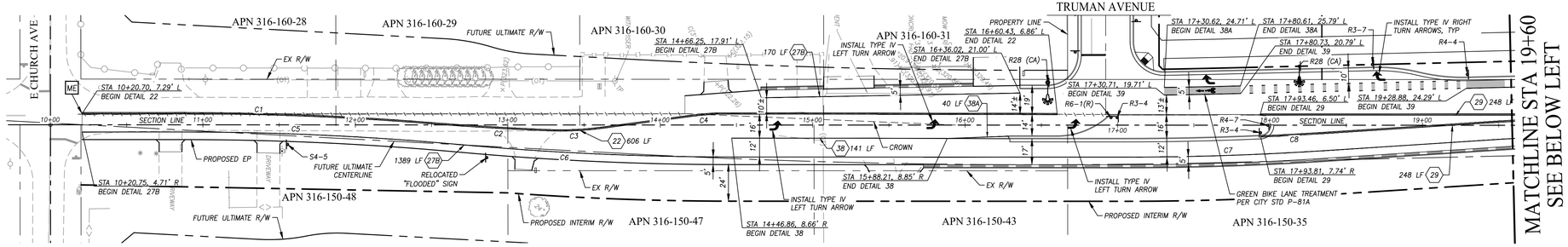
REVIEWED:
OFFICE ENG. _____ CITY ENG. _____
DR. BY: DM,KK
CH. BY: _____
DATE: _____
SCALE: AS NOTED
SHEET NO. 7 OF 8 SHEETS
XX-X-XXXX

QK PROJECT 250125

REGISTERED PROFESSIONAL ENGINEER LEE T. DWIGGINS CIVIL STATE OF CALIFORNIA
DRAFT NO. 61523

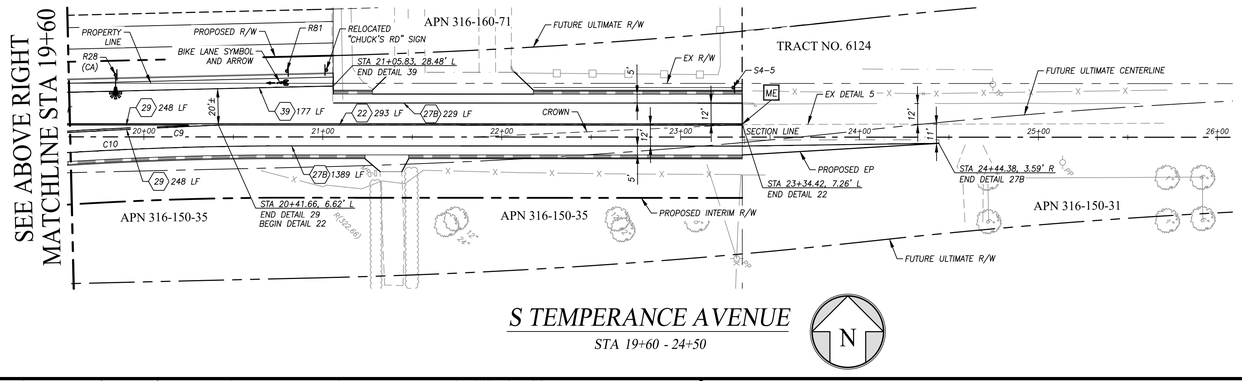
FOR BID PURPOSES ONLY - NOT FOR CONSTRUCTION

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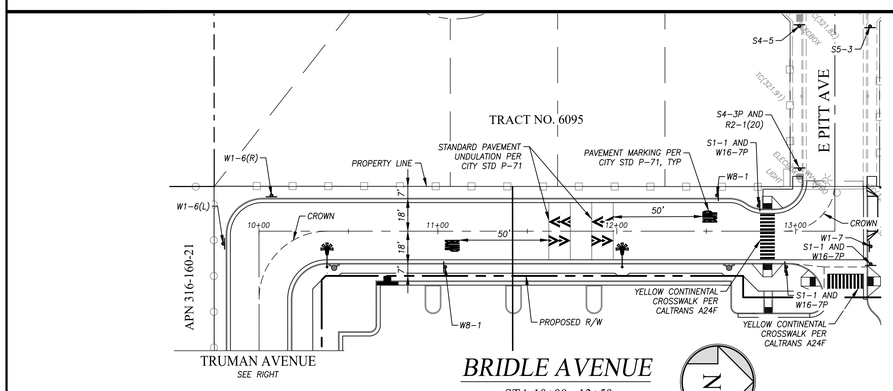
S TEMPERANCE AVENUE

STA 10+00 - 19+60



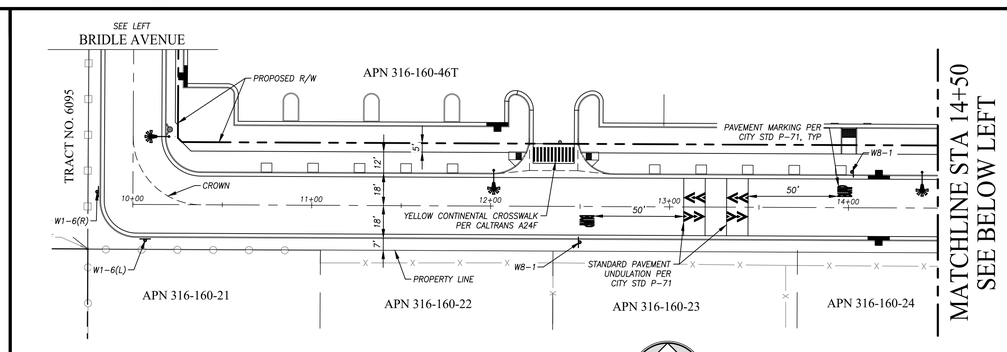
S TEMPERANCE AVENUE

STA 19+60 - 24+50



BRIDLE AVENUE

STA 10+00 - 13+50



TRUMAN AVENUE

STA 10+00 -14+50

TRUMAN AVENUE

STA 14+50 - 23+00

SIGNING AND STRIPING GENERAL NOTES

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, INCLUDING ALL REVISIONS, THE 2014 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2014 CALIFORNIA MUTCD), THE LATEST EDITION OF THE CITY OF FRESNO STANDARD SPECIFICATIONS AND DRAWINGS, AND THE SPECIAL PROVISIONS.
2. THESE PLANS ARE ACCURATE FOR SIGNING AND STRIPING ONLY.
3. ALL SIGNS SHALL BE 3M–3930HIP TYPE III & IV SERIES REFLECTIVE SHEETING AND SHALL BE COVERED WITH 1160A PREMIUM OVERLAY ANTI–GRAFFITI FILM OR AVERY DENNISON T6500 SERIES REFLECTIVE SHEETING AND SHALL BE COVERED WITH AVERY DENNISON OL1000ANTI–GRAFFITI OVERLAY FILM.
4. ALL SALVAGED MATERIALS SHALL BE DELIVERED TO THE CITY OF FRESNO CORPORATION YARD AT 2101 G. STREET, FRESNO. THE CONTRACTOR SHALL NOTIFY THE CITY SIGN SHOP, (559) 621–1492, AT LEAST TWO WORKING DAYS PRIOR TO DELIVERY.
5. EXISTING STRIPING, SYMBOLS, LEGENDS, AND MARKINGS TO BE REMOVED SHALL BE DONE BY WET SANDBLASTING. DRY SANDBLASTING MAY BE USED IN SELECTED AREAS ONLY WITH THE PERMISSION OF THE CITY TRAFFIC ENGINEER AND WITH THE APPROVAL OF THE AIR POLLUTION CONTROL DISTRICT. ALTERNATE METHODS OF REMOVAL REQUIRE APPROVAL OF THE CITY TRAFFIC ENGINEER. AFTER REMOVAL, SLURRY SEAL SHALL BE APPLIED TO THE AFFECTED AREAS.
6. WITH THE EXCEPTION OF BIKE LANE SYMBOLS, ALL STRIPING SHALL BE THERMOPLASTIC.
7. ALL CROSSWALKS SHALL BE 12 FEET WIDE, OUTSIDE EDGE TO OUTSIDE EDGE.
8. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW TYPE K–1 (CA) MARKERS ON ALL MEDIAN ISLAND NOSES, UNLESS OTHERWISE NOTED ON THE PLAN.
9. THE CONTRACTOR SHALL INSTALL DETAIL 26 (RETRO–REFLECTIVE PAVEMENT MARKERS) ALONG ALL RAISED MEDIANS, AS PER 2014 CALIFORNIA MUTCD.
10. THE CONTRACTOR SHALL PAINT THE RADII OF ALL RAISED MEDIAN ISLAND NOSES WITH TWO COATS OF YELLOW TRAFFIC PAINT WITH RETRO REFLECTIVE GLASS BEADS, UNLESS OTHERWISE NOTED ON THE PLAN.
11. SIGNS SHALL BE INSTALLED PER CITY STANDARD DRAWING P–88, UNLESS OTHERWISE NOTED ON THE PLANS.
12. ALL R28(S)(CA) SIGNS SHALL BE "TOW–AWAY/NO STOPPING ANY TIME" SIGNS PER CITY STANDARD DRAWING P–91.
13. ALL EXISTING SIGNS NOT SHOWN FOR REMOVAL, RELOCATION OR RESETTING SHALL REMAIN AND PROTECTED IN PLACE.
14. SIGN LOCATIONS ARE APPROXIMATE, EXACT LOCATION TO BE DETERMINED IN THE FIELD.
15. UNLESS NOTED OTHERWISE, ALL SINGLE POST SIGNS TO BE MOUNTED MIN 80" ABOVE THE SIDEWALK.

NOTE

1. R28(CA)(DBL) SHALL BE PLACED AT A MAX. OF 200' APART.

PAVEMENT DELINEATION AND SIGNAGE LEGEND

- REMOVE EXISTING STRIPING AND PAVEMENT MARKING
- (1) INSTALL TRAFFIC STRIPE PER LATEST EDITION OF THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) NUMBER IN ⬡ INDICATES DETAIL NO. ON STANDARD PLAN.
- ME JOIN AND MATCH EXISTING STRIPING ALIGNMENT.
- INSTALL TYPE IV (L) OR (R) WHITE ARROWS PER A24A AS SHOWN CENTERED IN LANE, UNLESS OTHERWISE NOTED ON THE PLANS.
- INSTALL BIKE LANE SYMBOL AND ARROW PER A24A AND A24C AND PER CITY OF FRESNO STD. P–81A
- EXISTING BIKE LANE SYMBOL AND ARROW
- EXISTING BIKE LANE SYMBOL

CURVE TABLE

CURVE #	RADIUS	LENGTH	DELTA
C1	2000.00'	191.91'	5°29'52"
C2	2000.00'	79.49'	2°16'38"
C3	200.00'	34.47'	9°52'31"
C4	200.00'	17.03'	4°52'47"
C5	1988.00'	180.24'	5°11'41"
C6	1978.00'	179.33'	5°11'40"
C7	2012.00'	130.41'	3°42'49"
C8	2000.00'	40.02'	1°08'48"
C9	9931.80'	90.88'	0°31'27"
C10	1988.00'	128.85'	3°42'49"

SCALE: 1"= 40'

REGISTERED PROFESSIONAL ENGINEER — LEX T. DWIGGINS — NO. 61523 — CIVIL — STATE OF CALIFORNIA

DRAFT

REV.	DATE	DESCRIPTION	BY	APRVL

PW FILE NO.: 2
PROJ. ID.: 2
FUND. NO.:
ORG. NO.:
REF. & REV.

CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS

PLANS AND SPECIFICATIONS FOR THE DEVELOPMENT OF STREETS TEMPERANCE ELEMENTARY SCHOOL SIGNING AND STRIPING PLAN

REVIEWED:
OFFICE ENG. _____ CITY ENG. _____
DR. BY: DM,KK
CH. BY:
DATE:
SCALE: AS NOTED
SHEET NO. 8
OF 8 SHEETS
XX-X-XXXX

OK PROJECT 250125

FOR BID PURPOSES ONLY - NOT FOR CONSTRUCTION

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STREETLIGHT NOTES:

1. ALL WORK SHALL CONFORM TO APPLICABLE SECTIONS OF THE STATE OF CALIFORNIA "STANDARD SPECIFICATIONS", ISSUED BY THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, THE NATIONAL ELECTRICAL CODE, AND THESE SPECIAL PROVISIONS:
2. LUMINARIE SHALL BE COBRA HEAD TYPE, 120V LIGHT EMITTING DIODE (LED) WITH QUICK ACTING PHOTOELECTRIC CELL AND SHALL BE SELECTED PURSUANT TO SECTION 23-3 OF THE CITY SPECIFICATIONS. INSTALL FUSE (KTK-5) AND FUSE HOLDER (BUS-HEB) IN LUMINARIE. CONTRACTOR TO WELD HAND HOLD CLOSED AFTER FINAL INSPECTION.
3. ALL STREETLIGHTS SHALL BE NUMBERED PER STD. DWG. E-25. NUMERICAL SEQUENCE TO BE OBTAINED FROM PG&E. NUMERALS SHALL BE 2-1/2" HIGH AND INSTALLED 10'-6" ABOVE FINISHED GRADE.
4. ALL CONDUITS SHALL BE SCH. 80 P.V.C., OR SCH. 40 P.V.C., AS PER STD. DWG. NOS. E-1, E-2, AND E-6 (NOTE 1), EXCEPT THAT CONDUIT FOR MAJOR STREET CROSSINGS SHALL BE GALVANIZED RIGID CONDUIT. ALL PVC CONDUIT SHALL BE UNDER SIDEWALK. IF NOT UNDER SIDEWALK, GALVANIZED RIGID CONDUIT SHALL BE BACKFILLED IN A 4" WIDE TWO SACK CONCRETE SLURRY MIX.
5. PULL BOX SPACING SHALL NOT EXCEED 200 FT. PULL BOXES SHALL BE REQUIRED AT ALL CONDUIT CHANGE OF DIRECTION AND ADJACENT TO EACH STREETLIGHT. INSTALL 6" 6 SACK CONCRETE CAP AND CLEAN PEA GRAVEL. STAMP THE LETTERS "SL" 2-1/2" TALL INTO THE FINISHED CONCRETE USING A STAMP DESIGNED FOR THAT PURPOSE. "POINT OF SERVICE" PULL BOX LID SHALL BE VANDAL RESISTANT LOCKING LIDS OR APPROVED EQUIVALENT WITH NO CONCRETE OR PEA GRAVEL. VANDAL RESISTANT LOCKING LIDS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT FINAL INSPECTION. CONTRACTOR SHALL PROVIDE TEMPORARY LID DURING CONSTRUCTION. LOCKING LIDS SHALL BE GALVANIZED STEEL DIAMOND PLATE, MINIMUM THICKNESS 3/16", WITH TWO (2) CLAMPING JAWS AND BE KEYED TO THE CITY OF FRESNO KEY. PULL BOXES IN NON-CONCRETE AREAS SHALL BE SURROUNDED BY A ONE-FOOT RING OF CONCRETE TO THE DEPTH OF THE PULL BOX AND EXTENSION, AND ALL CONDUITS SHALL ENTER THESE PULL BOXES THROUGH THE BOTTOM, USING 90 DEGREE ELBOWS, AND SHALL EXTEND 3 TO 5 INCHES ABOVE THE FINISHED GROUT. CONTRACTOR SHALL TIGHTEN DOWN ALL LOCKING LID(S) TO A MINIMUM TORQUE SPEC OF 25 FOOT POUNDS.
6. IF THE SERVICE PEDESTAL IS EQUIPPED WITH A LIGHTING CONTACTOR AND NO MASTER PHOTO CONTROL IS INSTALLED, THE CONTRACTOR SHALL INSTALL A MASTER PHOTO CONTROL ATOP A 30' TALL SIGNAL POLE ADJACENT TO THE SERVICE PEDESTAL, OR ATOP THE NEAREST STREETLIGHT POLE. THE MASTER PHOTO CONTROL SHALL BE WIRED BACK TO THE SERVICE PEDESTAL USING THREE NO. 12 AWG STRANDED COPPER WIRES COLOR MATCHED TO THE PEC. THE PEC WILL BE MOUNTED USING HARDWARE MANUFACTURED FOR THAT PURPOSE, OR FABRICATED HARDWARE APPROVED BY THE TSSL SUPERVISOR. IF THE PEDESTAL IS NOT EQUIPPED WITH A LIGHTING CONTACTOR THE CONTRACTOR SHALL UPGRADE THE PEDESTAL TO MEET THE LATEST CITY OF FRESNO STANDARDS.
7. ALL STREETLIGHTS AND SAFETY LIGHTS FED FROM A PEDESTAL EQUIPPED WITH A CONTACTOR SHALL BE SWITCHED BY THAT CONTACTOR, AND THEIR PEC'S REPLACED WITH SHORTING CAPS.
8. ALL WORK SHALL COMPLY WITH CITY OF FRESNO STANDARD DRAWINGS NOS. E-1 THROUGH E-37, AND CITY OF FRESNO STANDARD SPECIFICATIONS.
9. ALL STREETLIGHT MATERIALS (LUMINAIRES AND POLES) SHALL BE APPROVED IN WRITING BY CITY OF FRESNO TRAFFIC SIGNALS & STREETLIGHTS (TSSL) DIVISION PRIOR TO ORDERING OF MATERIAL. ALL MATERIAL NOT APPROVED PRIOR TO ORDERING SHALL BE SUBJECT TO REJECTION AT NO COST TO THE CITY.
10. THE EXISTING STREET LIGHTING SYSTEM SHALL REMAIN OPERATIONAL DURING CONSTRUCTION, UNLESS OTHERWISE NOTED ON THESE PLANS.
11. ANY STREET LIGHT OR TRAFFIC SIGNAL PULL BOX IN THE SCOPE OF WORK OR ACCESSED BY THE CONTRACTOR SHALL BE CLEANED COMPLETELY, GROUTED, AND DUCT SEAL SHALL BE INSTALLED IN CONDUITS.
12. ANY BROKEN PULL BOX WITHIN THE PROJECT SHALL BE REPLACED BY THE CONTRACTOR.
13. ANY PULL BOX ADJUSTED TO GRADE SHALL BE ABLE TO ACCEPT A CITY OF FRESNO APPROVED LOCKING LID, AND THE CONDUITS SHALL BE ADJUSTED TO MEET CITY STANDARDS AND SPECIFICATIONS.
14. CONDUIT BENDS OF 90 DEGREES ARE PROHIBITED UNLESS OTHERWISE NOTED OR WRITTEN PERMISSION IS GIVEN BY THE CITY ENGINEER.

OWNER

SANGER UNIFIED SCHOOL DISTRICT
1905 SEVENTH STREET
SANGER, CA 93657

PREPARED BY

QK, INC.
609 NORTH IRWIN STREET
HANFORD, CA 93230
(559) 582-1056

SITE ADDRESS

1261 SOUTH TEMPERANCE AVENUE
FRESNO, CA 93727

ASSESSOR'S PARCEL NUMBER:

316-160-71, 316-160-72T, AND 316-160-46T

BENCHMARK

FRESNO COUNTY BENCHMARK LG1, A FRESNO COUNTY BRASS CAP AT THE INTERSECITON OF AMERICAN AVENUE AND PLACER AVENUE, 27.3' SOUTHEAST OF A GUY POLE, 1.0' EAST OF A POWER POLE. HAS AN NGVD29 ELEVATION OF 172.408 FEET PER COUNTY OF FRESNO BENCHMARK RECORDS.

BASIS OF BEARINGS AND COORDINATES

THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 6, TOWNSHIP 15 SOUTH, RANGE 17 EAST, M.D.B&M, HAS A WGS84 BEARING OF N8956'31" E PER GPS OBSERVATIONS. COORDINATE SYSTEM IS LOCAL, NO PROJECTION, NO DATUM.

STREETLIGHT LEGEND:

- INSTALL STREETLIGHT PER APPROVED FIXTURES LIST (MAJOR STREET & LOCAL STREET INTERSECTION), CITY STD E-1 AND SECTION 23-3.16 OF CITY SPECIFICATIONS
- INSTALL STREETLIGHT PER APPROVED FIXTURES LIST (MAJOR STREET MID-BLOCK & LOCAL CUL-DE-SAC AND KNUCKLE) CITY STD E-1 AND SECTION 23-3.16 OF CITY SPECIFICATIONS
- INSTALL 1-1/2" CONDUIT UNLESS OTHERWISE NOTED. INSTALL 3-#6 CONDUCTORS AND 1-#8 GROUND, PER CITY STD E-1 AND E-5
- INSTALL #3 1/2 PULL BOX PER CITY STD E-4B, UNLESS OTHERWISE NOTED.
- PG&E #2 BOX AT POINT OF SERVICE (SEE DETAIL 1, SHEET 2)
- INSTALL TESCO PANEL PER CITY STD E-15 & E-17 (SEE DETAIL 1, SHEET 2)

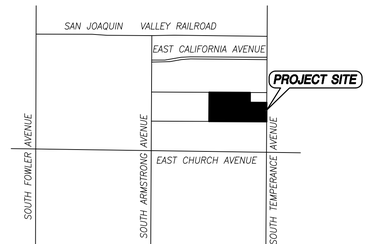
SPECIAL NOTE:

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS, DEPTH AND DIMENSIONS OF STRUCTURES ARE BELIEVED TO BE REASONABLY CORRECT, BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUED AS A REPRESENTATION THAT SUCH STRUCTURES WILL, IN ALL CASES, BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL OF THE STRUCTURES WHICH MAY BE ENCOUNTERED.

CONTRACTOR SHALL NOTIFY "USA" (UNDERGROUND SERVICE ALERT) AT 811, 48 HOURS BEFORE COMMENCING EXCAVATION AND ALL UTILITY AUTHORITIES OR UTILITY COMPANIES HAVING POSSIBLE INTEREST IN THE WORK OF CONTRACTOR'S INTENTION TO EXCAVATE PROXIMATE TO EXISTING FACILITIES, AND CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITIES WITHIN THE WORK AREA.

SHEET INDEX:

No.	SHEET TITLE:	DRAWING No:
1	COVER SHEET	4-C-XXXXX
2	STREETLIGHT PLAN	4-C-XXXXX



VICINITY MAP

NOT TO SCALE

DESIGN ENGINEER:

ALEX T. DWIGGINS, RCE 61523 — DATE

APPROVED BY:

CITY OF FRESNO – TRAFFIC SIGNAL AND STREETLIGHT SUPERVISOR — DATE

CITY OF FRESNO – TRAFFIC ENGINEERING — DATE

REGISTERED PROFESSIONAL ENGINEER — ALEX T. DWIGGINS — NO. 61523 — CIVIL — STATE OF CALIFORNIA — DRAFT

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Know what's below. Call before you dig.

WARNING — POWERLINES OVERHEAD

BY: QK
WWW.QKINC.COM
1-800-955-7599
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REV.	DATE	DESCRIPTION	BY	APRVL

PLAN REVIEW FEE: $??
(C.M. No. PWT-??) $??

PW FILE NO.
PROJ. ID.
FUND. NO.
ORG. NO.
REF. & REV.

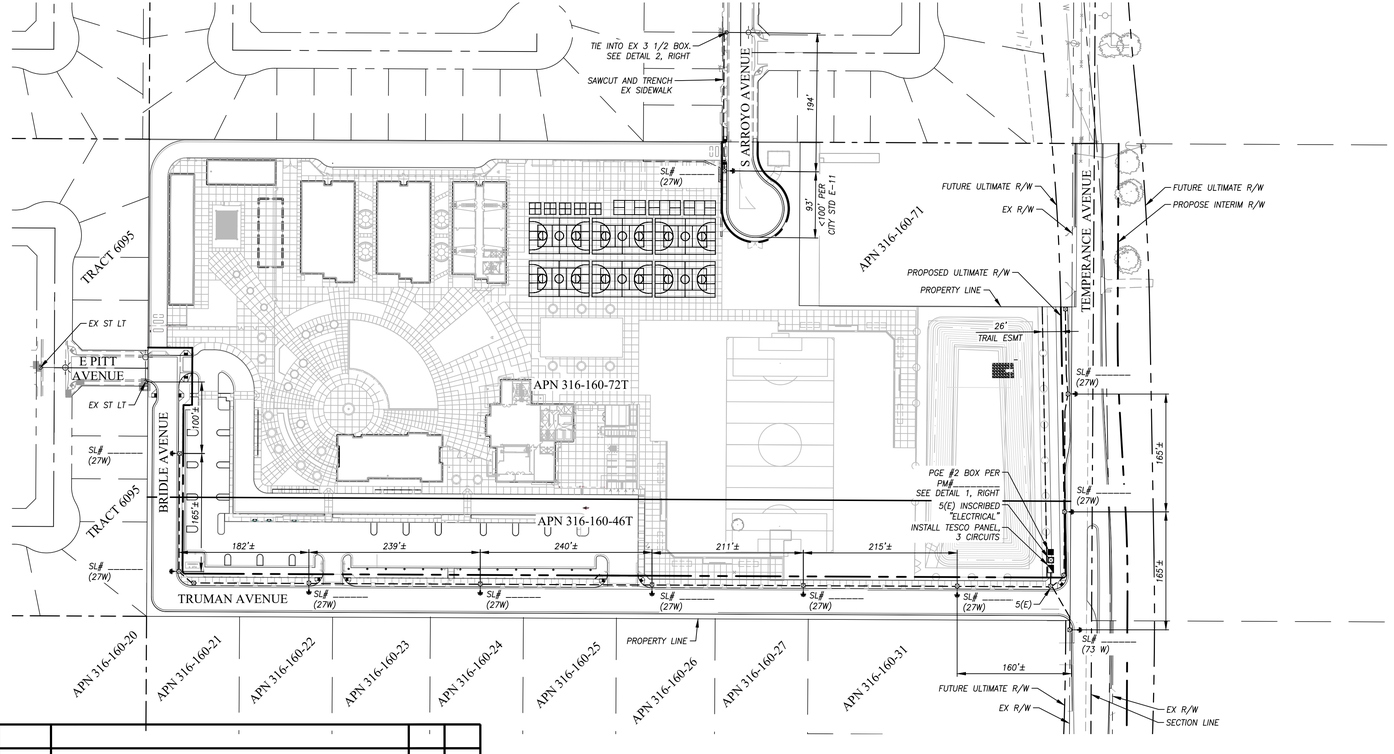
CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS

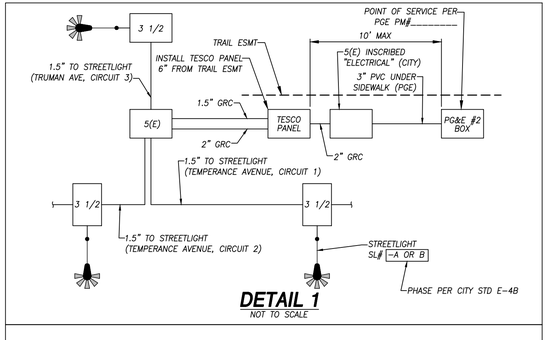
PLANS AND SPECIFICATIONS FOR THE DEVELOPMENT OF STREETS TEMPERANCE ELEMENTARY SCHOOL COVER SHEET

REVIEWED:
OFFICE ENG. _____ CITY ENG. _____
DR. BY: DM
CH. BY: _____
DATE: _____
SCALE: AS NOTED
SHEET NO. 1
OF 2 SHEETS
4-C-XXXXX
1
QK PROJECT

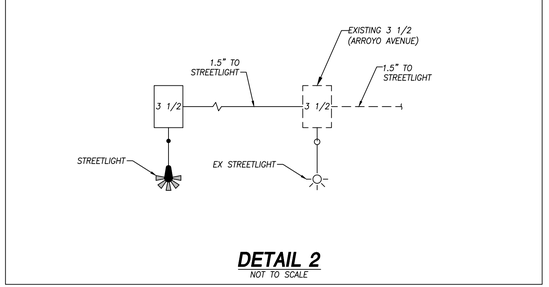
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DETAIL 1
NOT TO SCALE



DETAIL 2
NOT TO SCALE

STREETLIGHT LEGEND:

- INSTALL STREETLIGHT PER APPROVED FIXTURES LIST (MAJOR STREET & LOCAL STREET INTERSECTION), CITY STD E-1 AND SECTION 23-3.16 OF CITY SPECIFICATIONS
- INSTALL STREETLIGHT PER APPROVED FIXTURES LIST (MAJOR STREET MID-BLOCK & LOCAL CUL-DE-SAC AND KNUCKLE) CITY STD E-1 AND SECTION 23-3.16 OF CITY SPECIFICATIONS
- INSTALL 1-1/2" CONDUIT UNLESS OTHERWISE NOTED. INSTALL 3-#6 CONDUCTORS AND 1-#8 GROUND, PER CITY STD E-1 AND E-5
- INSTALL #3 1/2 PULL BOX PER CITY STD E-4B, UNLESS OTHERWISE NOTED.
- PG&E #2 BOX AT POINT OF SERVICE (SEE DETAIL 1 LEFT)
- INSTALL TESCO PANEL PER CITY STD E-15 & E-17 (SEE DETAIL 1 LEFT)
- EXISTING STREETLIGHT



SCALE: 1"= 100'

REGISTERED PROFESSIONAL ENGINEER ALEX T. DWIGGINS NO. 61523 CIVIL STATE OF CALIFORNIA
DRAFT

REV.	DATE	DESCRIPTION	BY	APRVL

PW FILE NO.
PROJ. ID.
FUND. NO.
ORG. NO.
REF. & REV.

CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS

PLANS AND SPECIFICATIONS FOR THE DEVELOPMENT OF STREETS
TEMPERANCE ELEMENTARY SCHOOL
STREETLIGHT PLAN

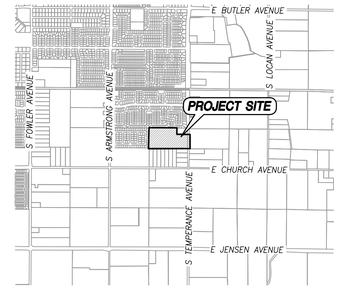
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OFFICE ENG. _____ CITY ENG. _____
DR. BY: DM
CH. BY: _____
DATE: _____
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SHEET NO. 2
OF 2 SHEETS
4-C-XXXXX
2
OK PROJECT

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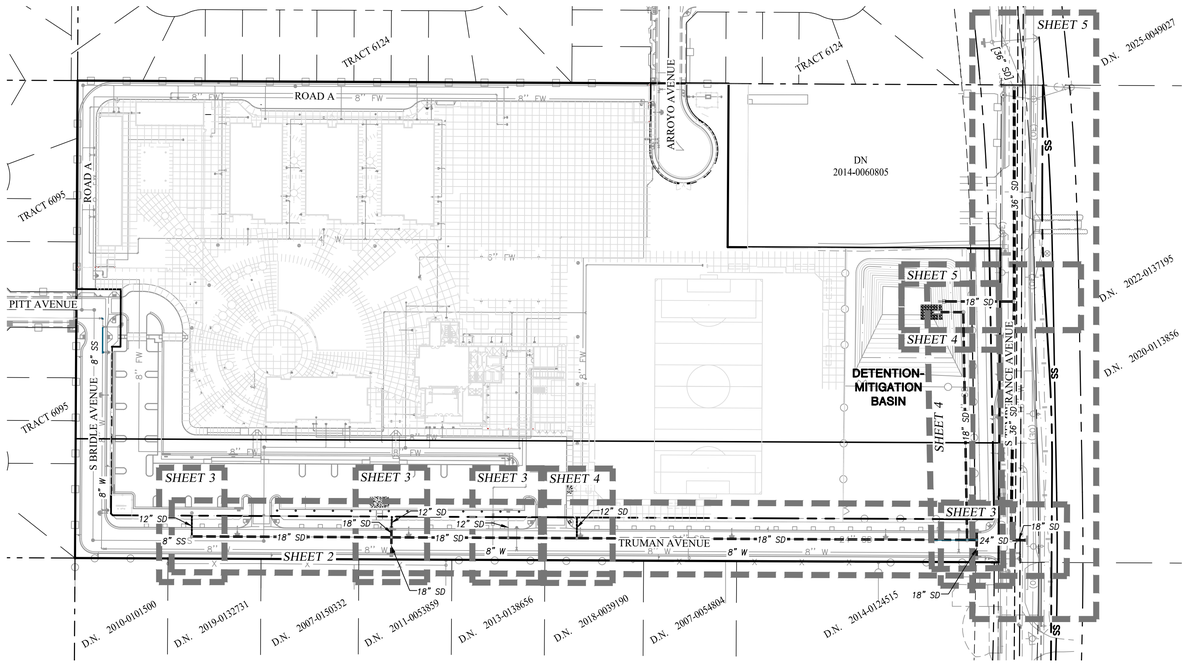
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FRESNO METROPOLITAN FLOOD CONTROL DISTRICT
CONSTRUCTION OF STORM DRAINAGE FACILITIES
DRAINAGE AREA "BM"
CONTRACT "??-?-"
TEMPERANCE ELEMENTARY SCHOOL

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VICINITY MAP
NOT TO SCALE



OVERALL PROJECT MAP
SCALE: 1" = 100'

PREPARED BY:
QUAD KNOPF, INC (QK)
601 POLLASKY AVENUE, SUITE 301
CLOVIS, CA 93612
(559) 449-2400

SURVEY INFORMATION:

CONTRACTOR IS RESPONSIBLE FOR PRESERVATION AND OR PERPETUATION OF ALL EXISTING SURVEY MONUMENTS WHICH CONTROL SUBDIVISIONS, TRACTS, PROPERTY BOUNDARIES, STREETS, HIGHWAYS, OR OTHER RIGHT-OF-WAY EASEMENTS. CONTRACTOR SHALL PROVIDE A MINIMUM OF 10 WORKING DAYS NOTICE TO PROJECT ENGINEER/SURVEYOR PRIOR TO DISTURBANCE OF REMOVAL OF EXISTING MONUMENTS. PROJECT ENGINEER/SURVEYOR SHALL COORDINATE WITH CONTRACTOR TO RESET MONUMENTS OR PROVIDE PERMANENT WITNESS MONUMENTS AND FILE THE REQUIRED DOCUMENTATION WITH THE COUNTY SURVEYOR PURSUANT TO BUSINESS AND PROFESSIONS CODE SECTION 8771.

BASIS OF ELEVATION:
ELEVATIONS FOR TOPOGRAPHIC DATA ARE NGVD29, BASED ON FRESNO COUNTY BENCHMARK JL99, BEING A FRESNO COUNTY BRASS CAP MONUMENT LOCATED AT THE SOUTHEAST INTERSECTION OF LEONARD AVE WITH SHIELDS AVE, APPROXIMATELY 19 FEET EAST OF LEONARD CENTERLINE AND 52 FEET SOUTH OF SHIELDS CENTERLINE.
ELEVATION: 355.392'

BASIS OF BEARINGS:
THE BASIS OF BEARINGS FOR THIS SURVEY IS CCS83(2017.50), ZONE 4, SHOWN LOCALLY BY THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 25-13/21, M.D.B.&M., BEARING NORTH 89°21'37" WEST, AND IS BASED UPON GPS OBSERVATIONS FROM CSRN STATIONS DOND AND RAPT, ALL HAVING PUBLISHED ACCURACIES OF LESS THAN 1 CM.

TOPOGRAPHIC SURVEY: TOPOGRAPHIC INFORMATION WAS COLLECTED IN MARCH 2022.

FMFCD NOTES:

1. *ALL WORK SHALL BE DONE IN ACCORDANCE WITH STANDARD PLANS AND SPECIFICATIONS OF THE FRESNO METROPOLITAN FLOOD CONTROL DISTRICT, DATED APRIL 1, 2011 AND REVISIONS THEREOF.*
2. *THE COUNTY OF FRESNO INSPECTOR WILL HAVE PRIMARY INSPECTION RESPONSIBILITY AND WILL CONDUCT DAY TO DAY INSPECTIONS FOR THE WORK WITHIN COUNTY RIGHT OF WAY. THE DISTRICT WILL ALSO CONDUCT INSPECTIONS WITHIN COUNTY RIGHT OF WAY FROM TIME TO TIME ON AN IRREGULAR BASIS. THE CONTRACTOR SHALL NOTIFY THE COUNTY OF FRESNO PUBLIC WORKS DEPARTMENT AT (559) 621-5600 AND THE DISTRICT CONSTRUCTION MANAGER AT (559) 456-3292, TWO WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.*
3. *EXISTING GROUND PROFILE TO BE CUT/FILLED BY OTHERS PRIOR TO STORM DRAIN CONSTRUCTION.*
4. *THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED TO PERFORM THE WORK EXCEPT THOSE OBTAINED FOR HIM BY THE DISTRICT. THE CONTRACTOR SHALL ABIDE BY THE CONDITIONS OF ALL PERMITS AND SHALL PERFORM ALL WORK ORDERED BY SAID PERMITS IN CONFORMANCE THEREWITH AND AS DIRECTED BY THE ENGINEER.*
5. *BEFORE COMMENCING EXCAVATION, THE CONTRACTOR SHALL NOTIFY ALL UTILITY AUTHORITIES OR UTILITY COMPANIES HAVING POSSIBLE INTEREST IN THE WORK OF THE CONTRACTOR'S INTENTION TO EXCAVATE PROXIMATE TO EXISTING FACILITIES AND THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH AND SIZE OF ALL UTILITIES IN THE WORK AREA.*
6. *THE CITY OF FRESNO REVIEW OF THE FMFCD PLANS IS SOLELY TO VERIFY THAT NO LOCATION CONFLICTS WILL EXIST BETWEEN CITY FACILITIES AND FMFCD FACILITIES. THE CITY OF FRESNO SIGN-OFF OF FMFCD PLANS IS LIMITED TO THE FOREGOING AND NO APPROVAL OF STORM DRAIN SYSTEM IS IMPLIED.*
7. *TWO WORKING DAYS BEFORE PERFORMING ANY EXCAVATION THE CONTRACTOR SHALL CALL "USA" (UNDERGROUND SERVICE ALERT) TOLL FREE AT 811.*
8. *MANHOLES SHALL BE LEFT ONE FOOT BELOW STREET GRADE UNTIL STREET CONSTRUCTION IS COMPLETED. THE STORM DRAIN CONTRACTOR SHALL RETURN AND RAISE THESE MANHOLES TO FINISH GRADE.*
9. *ALL STATIONING IS ALONG CENTERLINE OF NEW STORM DRAIN.*
10. *STORM DRAIN CROSSINGS OVER/UNDER SEWER, WATER, OR RECLAIMED WATER MAINS WITH 4" OR LESS OF CLEARANCE MUST FIRST BE APPROVED BY THE LOCAL JURISDICTIONAL UTILITY OWNER. SHOULD THE UTILITY OWNER APPROVE, BACKFILL SHALL BE PLACED PER DISTRICT STANDARD DRAWING NO. G-2 USING A 3 SACK CEMENT/SAND MIX. WHERE SEPARATION BETWEEN STORM DRAIN AND UTILITY EXCEEDS 4", BUT SOIL IS DISTURBED BETWEEN THE STORM DRAIN AND UTILITY, DISTRICT STANDARD DRAWING NO. G-2 SHALL BE USED UP TO A SEPARATION DISTANCE THAT CAN BE COMPACTED BY HAND-OPERATED EQUIPMENT.*

SPECIAL NOTE:

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS, DEPTH AND DIMENSIONS OF STRUCTURES ARE BELIEVED TO BE REASONABLY CORRECT, BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUED AS A REPRESENTATION THAT SUCH STRUCTURES WILL, IN ALL CASES, BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL OF THE STRUCTURES WHICH MAY BE ENCOUNTERED.

ABBREVIATIONS:

CIP	*CAST-IN-PLACE*
EP	*EDGE OF PAVEMENT*
EX	*EXISTING*
FL	*FLOW LINE*
GB	*GRADE BREAK*
MH	*MANHOLE*
OE	*OVERHEAD ELECTRIC LINE*
PL	*PROPERTY LINE*
RCP	*REINFORCED CONCRETE PIPE*
S=0.0000	*SLOPE*
SD	*STORM DRAIN*
SS	*SANITARY SEWER*
TC	*TOP OF CURB*
TG	*TOP OF GRATE*
TS	*TOP OF STRUCTURE*
W	*WATER MAIN*
000.00	*PROPOSED ELEVATION*
(000.00)	*EXISTING ELEVATION*

LEGEND:

18" SD	*PROPOSED PVC PIPE, SIZE AS INDICATED*
18" SD	*PROPOSED REINFORCED CONCRETE PIPE, SIZE AS INDICATED*
36" SD	*PROPOSED CAST-IN-PLACE CONCRETE PIPE, SIZE AS INDICATED*
[18" SD]	*FUTURE PVC STORM DRAIN, SIZE AS INDICATED*
	EXISTING EDGE OF PAVEMENT
	EXISTING RIGHT OF WAY
	PROPOSED RIGHT OF WAY
	PROPOSED CENTERLINE
	PROPOSED CURB AND GUTTER, PER SEPARATE PLAN
	EXISTING CURB BAND GUTTER
	PROPOSED MOW CURB
	PROPOSED TYPE 'D' STORM DRAIN INLET
	PROPOSED STORM DRAIN MANHOLE
	PROPOSED OUTFALL STRUCTURE, SIZE AND TYPE AS INDICATED
	PROPOSED OUTLET STRUCTURE, SIZE AND TYPE AS INDICATED
8" SS	*PROPOSED SANITARY SEWER, SIZE AS INDICATED, PER SEPARATE PLAN*
8" W	*PROPOSED WATERLINE, SIZE AS INDICATED, PER SEPARATE PLAN*
(8" SS)	*EXISTING SANITARY SEWER, SIZE AS INDICATED*
(8" W)	*EXISTING WATERLINE, SIZE AS INDICATED*
OE	*EXISTING OVERHEAD ELECTRIC LINE*
	PIPE PROFILE PROPOSED STORM DRAIN
	PIPE PROFILE FUTURE STORM DRAIN
	DRAINAGE DIRECTION

TABLE OF CONTENTS

DWG. NO.	TITLE	SHEET NO.
1	COVER SHEET	??-?-1
2	PLAN AND PROFILE	??-?-2
3	PLAN AND PROFILE	??-?-3
4	PLAN AND PROFILE	??-?-4
5	PLAN AND PROFILE	??-?-5
6	DETAILS	??-?-6

NOTE: SEPARATE SPECIAL PROVISIONS ARE PART OF THESE PLAN DOCUMENTS.

REGISTERED PROFESSIONAL ENGINEER — ALEX T. DWIGGINS — No. 61523 — CIVIL — STATE OF CALIFORNIA — DRAFT

FMFCD INSPECTION FEE: ??
CITY INSPECTION FEE: ??

WARNING — POWERLINES OVERHEAD

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

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TEMPERANCE ELEMENTARY SCHOOL

PROJECT ENGINEER, ALEX DWIGGINS, RCE 61523 — DATE: _____
FMFCD GENERAL MANAGER/SECRETARY, PETER SANCHEZ — DATE: _____
FMFCD DISTRICT ENGINEER/ASSISTANT, GENERAL MANAGER, BRENT SUNAMOTO, RCE 60128 — DATE: _____
CITY OF FRESNO, CITY ENGINEER — DATE: _____

QK PROJECT 250125

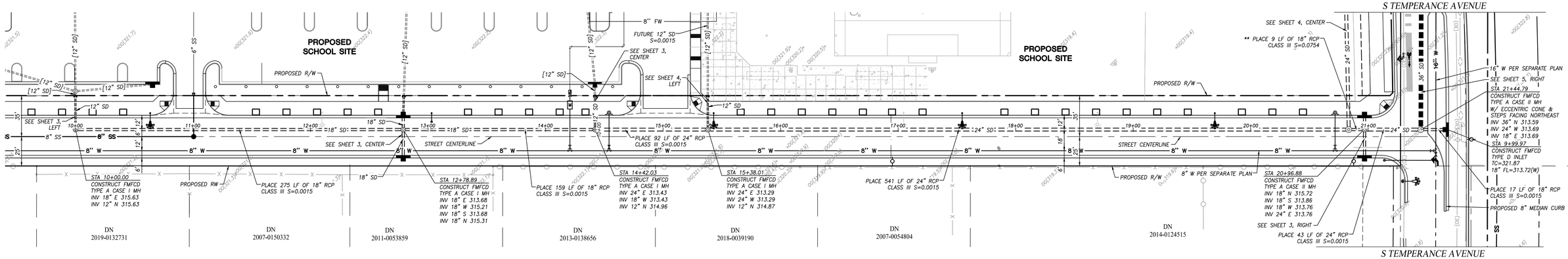
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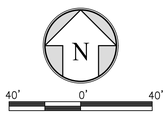
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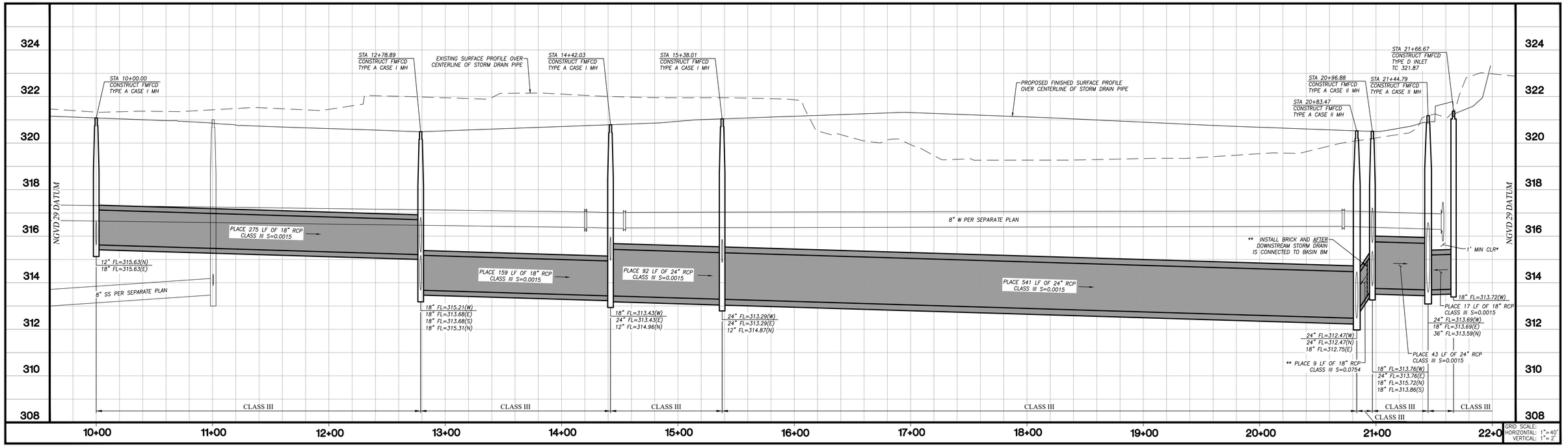
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TRUMAN AVENUE
18" AND 24" SD





GRID SCALE:
HORIZONTAL: 1"= 40'
VERTICAL: 1"= 2'

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NOTE:
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** TEMPORARY PIPE TO EMPTY INLETS BEFORE COMPLETION OF DOWNSTREAM STORM DRAIN. INSTALL BRICK AND AFTER DOWNSTREAM STORM DRAIN IS CONNECTED TO BASIN BM

REGISTERED PROFESSIONAL ENGINEER
JAY T. DINGWALL
DRAFT
NO. 61523
CIVIL
STATE OF CALIFORNIA

QK PROJECT 250125

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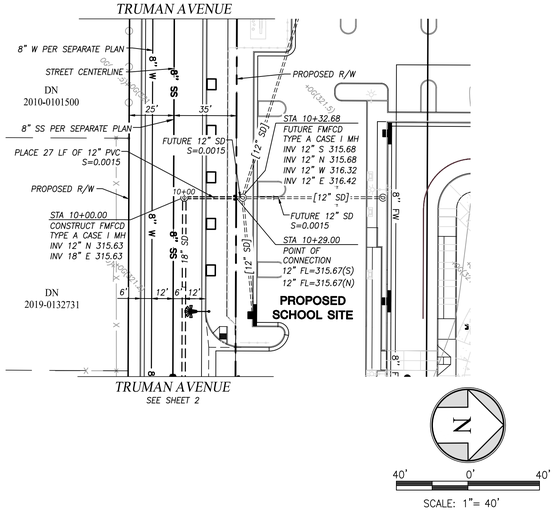
FRESNO METROPOLITAN FLOOD CONTROL DISTRICT

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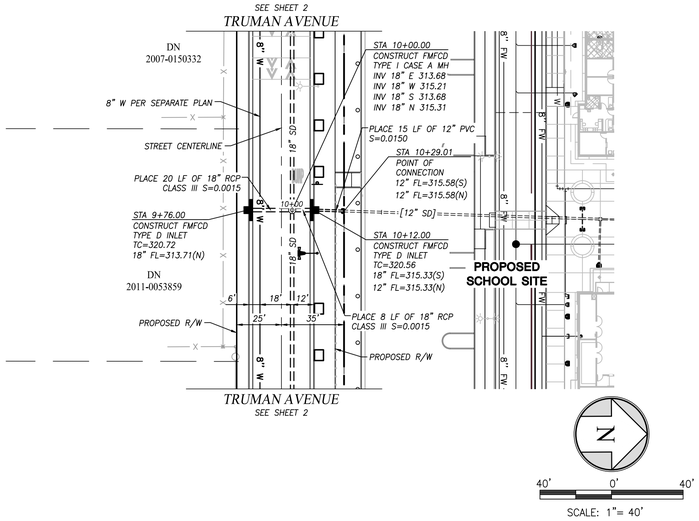
PLAN AND PROFILE

SHEET 2 OF 6

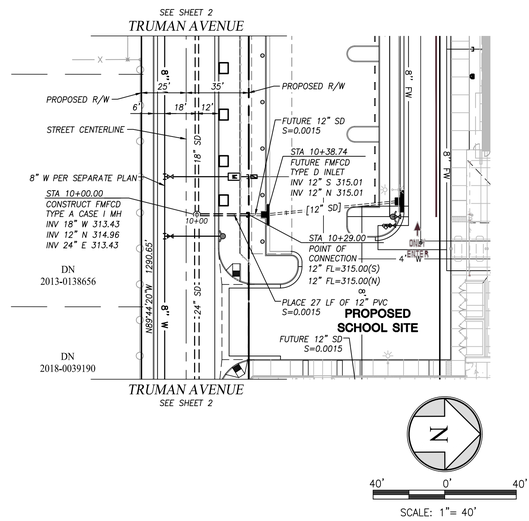
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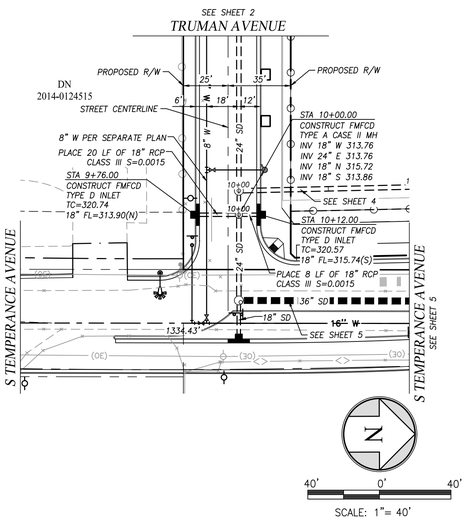
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12" PVC (PRIVATE)



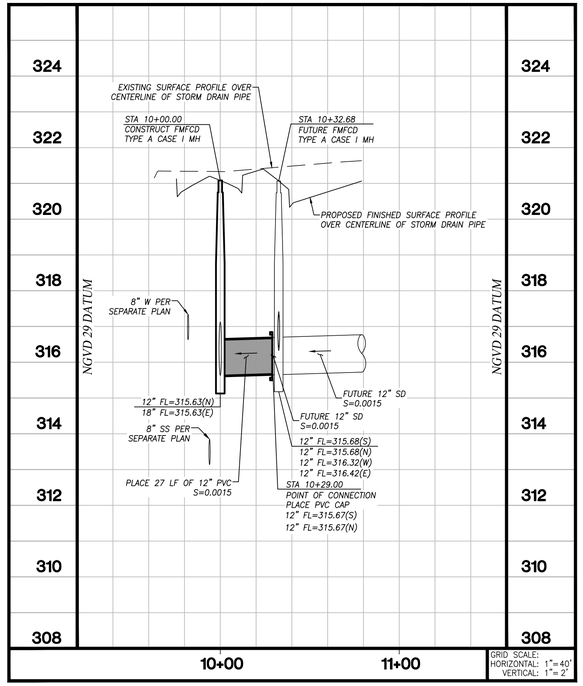
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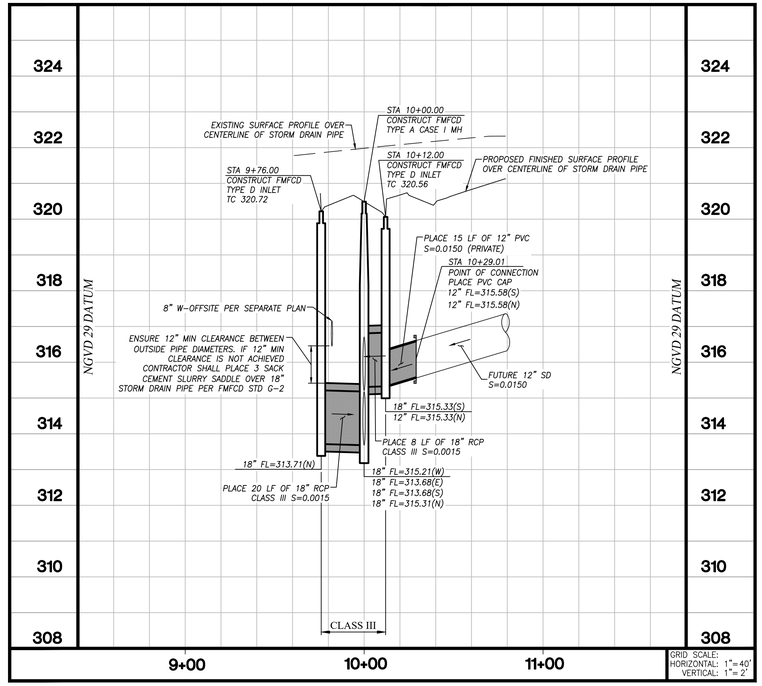


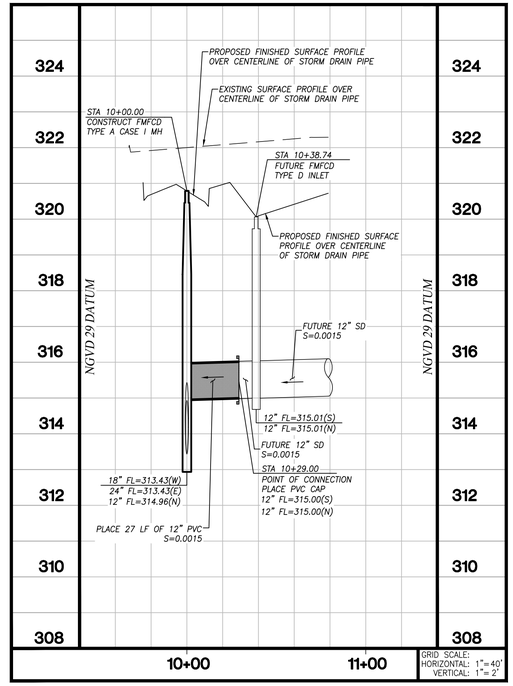
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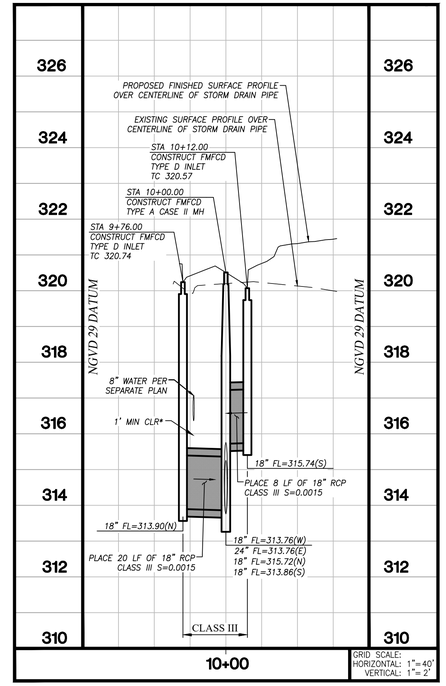


TRUMAN AVENUE
18" SD









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REGISTERED PROFESSIONAL ENGINEER
JAY T. DWIGGINS
DRAFT
NO. 61523
CIVIL
STATE OF CALIFORNIA

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FRESNO METROPOLITAN FLOOD CONTROL DISTRICT

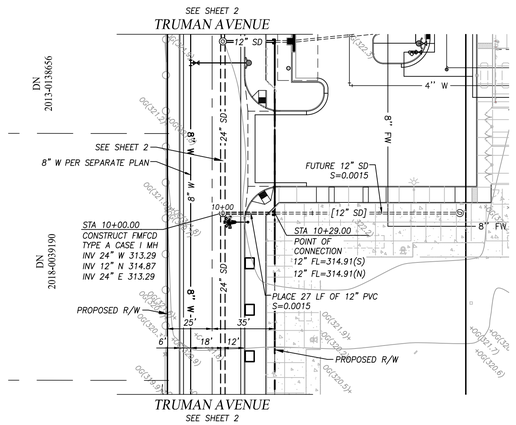
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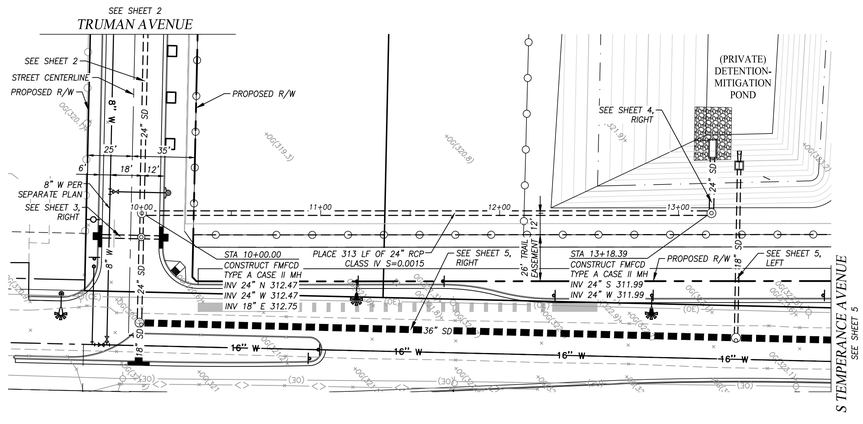
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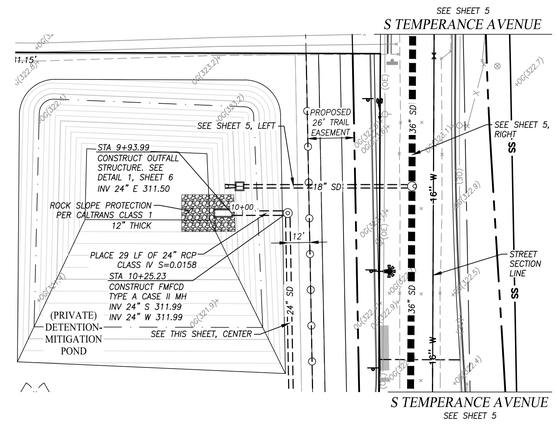
PLAN AND PROFILE

SHEET 3 OF 6

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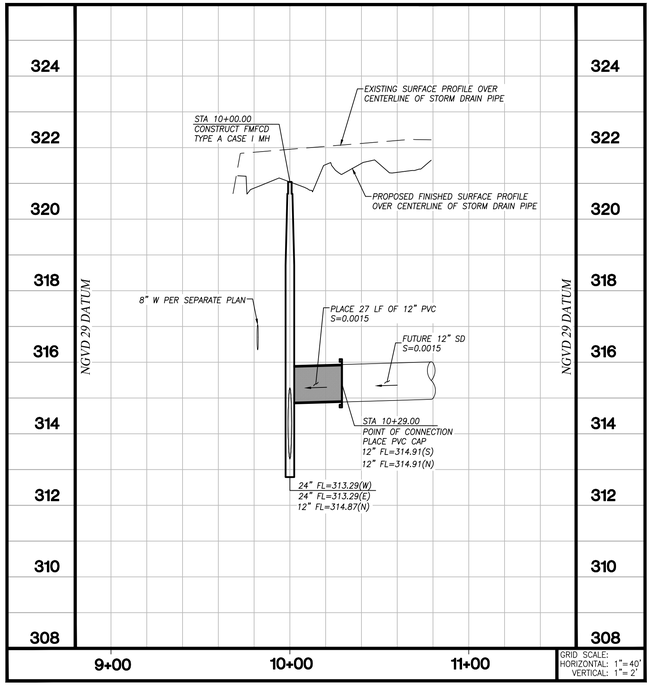




TRUMAN AVENUE 12" PVC (PRIVATE)



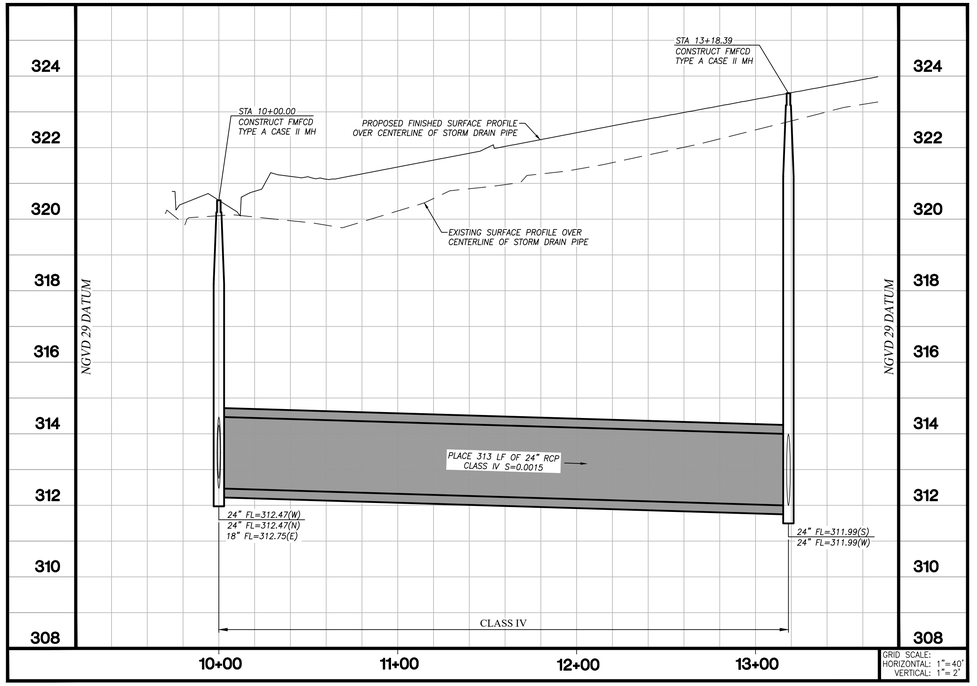
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24" SD TO DETENTION-MITIGATION POND (PRIVATE)



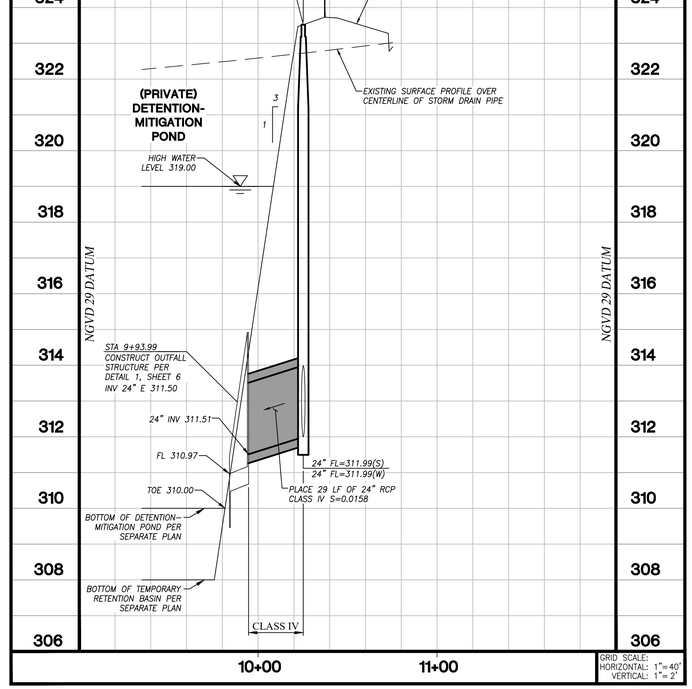
SCALE: 1"= 40'



24" SD TO DETENTION-MITIGATION POND (PRIVATE)



SCALE: 1"= 40'



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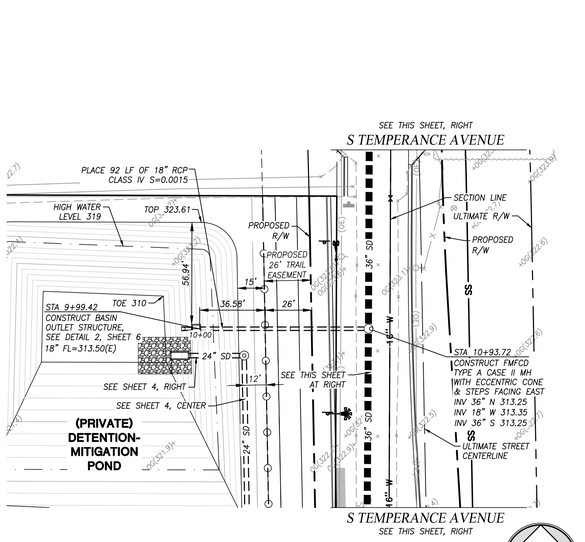
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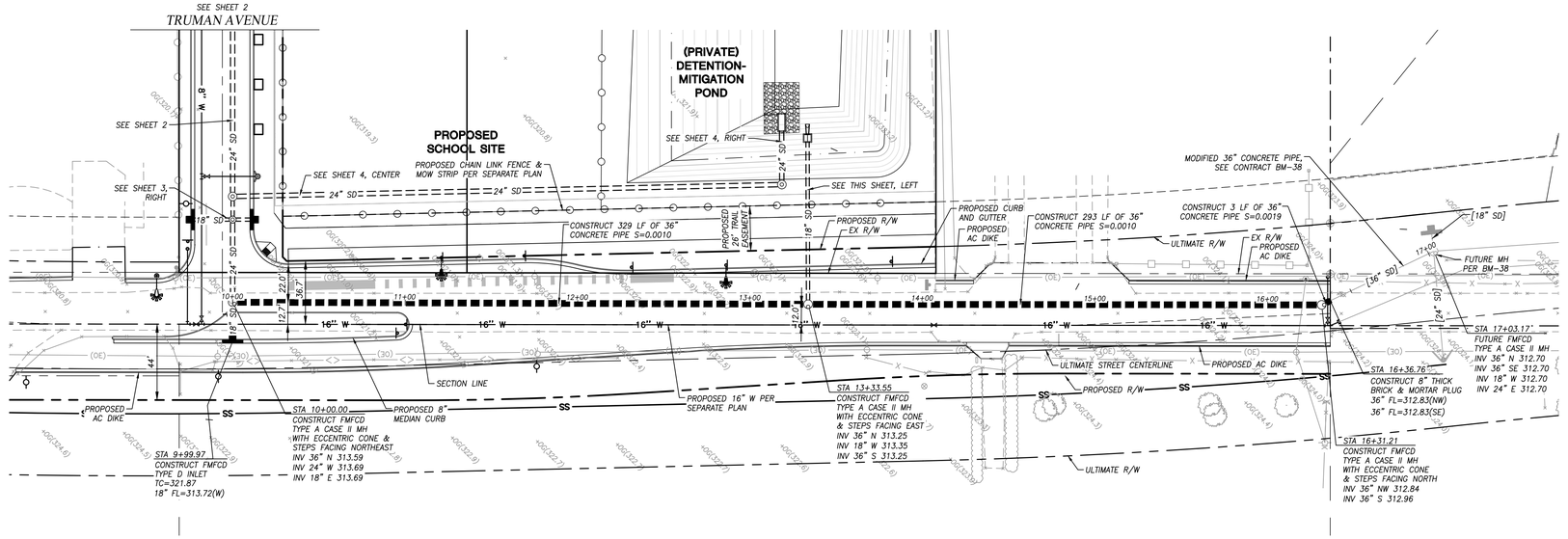
FRESNO METROPOLITAN FLOOD CONTROL DISTRICT

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CHECKED BY: JT	DATE: 8/14/2026		SHEET 4 OF 6
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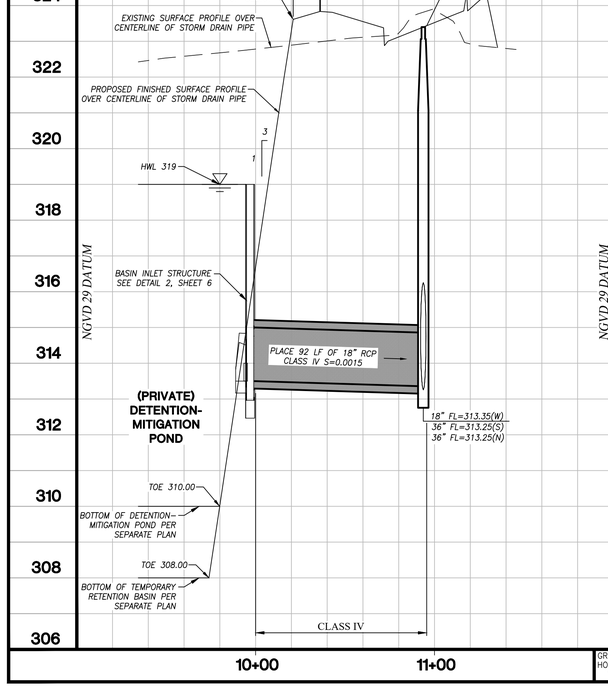
18" DETENTION-MITIGATION POND OUTLET (PRIVATE)

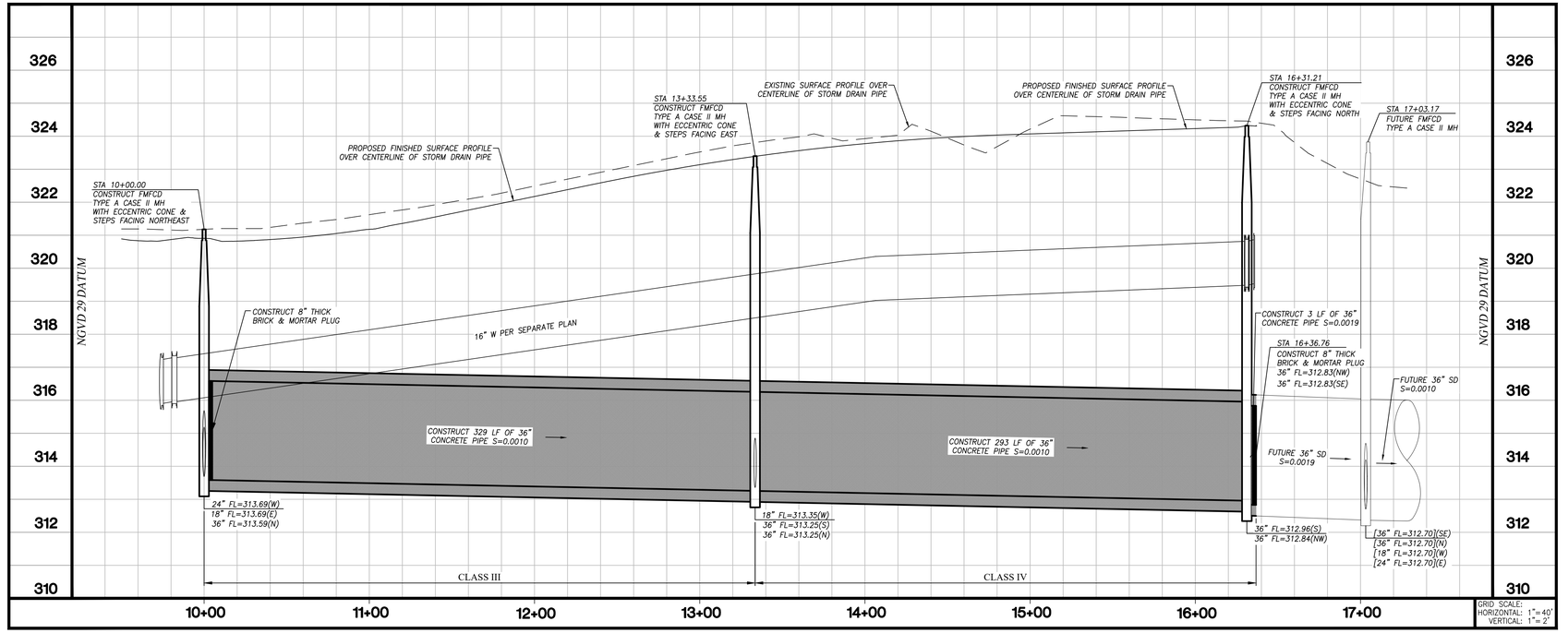
40' 0' 40'
SCALE: 1"= 40'



S TEMPERANCE AVENUE 36" SD

40' 0' 40'
SCALE: 1"= 40'





GRID SCALE:
HORIZONTAL: 1"=40'
VERTICAL: 1"= 2'

BY:
QK
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REGISTERED PROFESSIONAL ENGINEER
ALEX T. DINGUS
DRAFT
NO. 61523
CIVIL
STATE OF CALIFORNIA

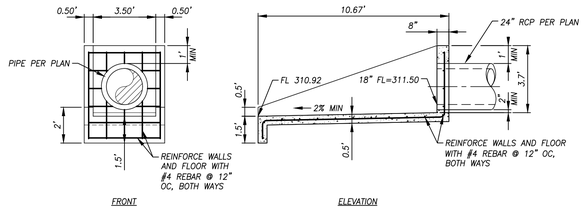
QK PROJECT 250125

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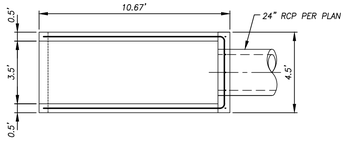
FRESNO METROPOLITAN FLOOD CONTROL DISTRICT

DRAWN BY: AA,KK	DATE: 8/14/2026	REVISIONS:	PLAN AND PROFILE
CHECKED BY: JT	DATE: 8/14/2026		SHEET 5 OF 6
SCALE: AS SHOWN			DRAWING No. ??-?-5



FRONT

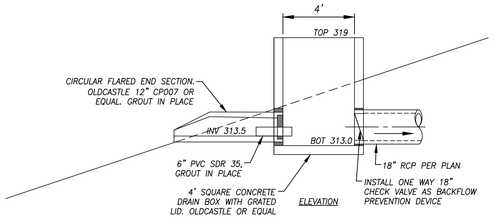
ELEVATION



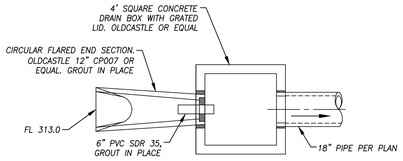
PLAN

1 OUTFALL STRUCTURE

1" = 4'



ELEVATION



PLAN

2 OUTLET STRUCTURE

1" = 4'

BY:
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QK PROJECT 250125

FRESNO METROPOLITAN FLOOD CONTROL DISTRICT

DRAWN BY: AA,KK DATE: 8/14/2026
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REVISIONS:

DETAILS

SHEET 6
OF 6

DRAWING No.
??-?-6

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