Proposal: Establishing a Long-Term Lease and Permanent Launch Ramp for Town Creek Association to Benefit the Community and Monterey and San Luis Obispo County

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From:
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Monterey County Permanent Launch Ramp Proposal

Proposed by Town Creek Association

Executive Summary

The Town Creek Association proposes the construction and management of a permanent boat launch ramp at Lake Nacimiento under a 10-year lease with Monterey County, including two 10-year renewal options. This facility will provide secure, controlled access for association members, enhance recreational opportunities, ensure emergency access for firefighting operations, and implement robust measures to prevent invasive mussel infestations, such as quagga, zebra, and golden mussels. By securing a long-term lease, the association will invest in high-quality infrastructure, fostering a sustainable public-private partnership that supports member satisfaction, community safety, environmental protection, and economic benefits for Monterey County. The proposal includes an optional secondary ramp on the southeast side of the island to ensure access during low water levels, further safeguarding the county's waterways from ecological threats.

Introduction

Invasive aquatic mussels pose a severe threat to Monterey County's waterways, economy, and infrastructure. These species, including quagga (Dreissena bugensis), zebra (Dreissena polymorpha), and golden mussels, can devastate ecosystems, clog water infrastructure, and disrupt recreational and economic activities. The Town Creek Association's proposed permanent launch ramp at Lake Nacimiento will serve as a critical tool in preventing mussel infestations while delivering recreational, safety, and economic benefits. This document outlines the project's objectives, benefits, and implementation plan, emphasizing proactive measures to protect Monterey County's aquatic environments.

Securing a Long-Term Lease

A long-term lease with Monterey County is essential to justify the association's investment and ensure the project's sustainability.

Lease Terms

- **Duration**: A 10-year initial lease with two 10-year renewal options, providing a 30-year planning horizon aligned with existing easement agreements.
- **Responsibilities**: The association will oversee construction, maintenance, and operation of the ramp, ensuring compliance with county standards.
- **Emergency Access**: Provisions will guarantee access for Monterey and San Luis Obispo County Fire and other emergency services during wildfire seasons or other crises.

- **Environmental Oversight**: The lease will include commitments to mussel prevention, including monitoring and compliance with state regulations.

Rationale

- **Investment Security**: A long-term lease ensures financial viability for constructing durable infrastructure, including gates, cameras, and mussel prevention systems.
- **Operational Continuity**: Provides consistent access for members and emergency services, avoiding disruptions from short-term agreements.
- **Environmental Protection**: Enables sustained mussel prevention efforts through centralized control and long-term monitoring.
- **Public-Private Partnership**: Strengthens collaboration between the association and Monterey County, maximizing community and environmental benefits.

Collaboration

- Work with county officials to align the lease with existing regulations and easement agreements.
- Engage legal counsel to address liability, maintenance, and emergency access provisions.
- Provide annual reports on ramp usage, maintenance, and environmental compliance to ensure transparency.

Benefits of the Permanent Launch Ramp

Association Members

- **Enhanced Recreation**: A secure, high-quality facility for boating and fishing, increasing member satisfaction and retention.
- **Exclusive Access**: Controlled entry ensures a premium experience for dues-paying members.
- **Community Engagement**: Opportunities for association-sponsored events, such as fishing tournaments and mussel prevention workshops, fostering camaraderie.

Community and Economy

- **Economic Boost**: Supports local businesses (e.g., marinas) through increased boating activity, contributing to Monterey and San Luis Obispo County economies.
- **Environmental Stewardship**: Demonstrates responsible management of recreational resources, enhancing the association's community reputation.
- **Regional Collaboration**: Aligns with neighboring counties' efforts to protect shared waterways from invasive species.

Monterey County Government

- **Reduced Costs**: Centralized access control minimizes county enforcement expenses at informal launch sites.
- **Environmental Leadership**: Proactive mussel prevention aligns with county and state goals, protecting critical water infrastructure.
- **Public Safety**: Provides a reliable staging area for firefighting operations, enhancing emergency response capabilities.

Mussel Infestation Prevention Strategy

Preventing the introduction of invasive mussels is a primary objective of the launch ramp. The association will implement a comprehensive strategy to safeguard Lake Nacimiento and surrounding waterways.

1. Mandatory Inspections and Education

- **Signage**: Install clear, weather-resistant signs at the ramp outlining mussel prevention guidelines in compliance with California Department of Fish and Wildlife regulations.
- **Certified Inspections**: Train staff as certified mussel screeners to conduct visual inspections of all vessels before launching, ensuring no invasive species are introduced.
- **Resident Vessel Program**: Encourage members to join the Resident Vessel Program, promoting consistent monitoring of watercraft stored on-site.
- **Educational Outreach**: Provide workshops and materials to educate members on cleaning, draining, and drying vessels to prevent mussel spread.

2. Centralized Control and Monitoring

- **Access Control**: Restrict ramp access to verified members using automated gates and annual rear-view mirror hangers, reducing the risk of contaminated vessels.
- **Security Cameras**: Install high-resolution cameras to monitor compliance and document vessel inspections, ensuring accountability.
- **Environmental Monitoring**: Partner with environmental experts to conduct regular water sampling for mussel environmental DNA (eDNA) and deploy artificial substrates to detect juvenile mussels.

3. Environmental Benefits

- **Ecosystem Protection**: Prevents disruption of fish populations and water quality, preserving recreational and ecological value.
- **Cost Avoidance**: Mitigates the need for expensive remediation, such as chemical treatments or infrastructure repairs.
- **Regulatory Compliance**: Aligns with state and federal invasive species regulations, reinforcing the association’s environmental responsibility.

Safety and Emergency Access Enhancements

The permanent launch ramp will prioritize safety for members and provide critical support for emergency operations.

Controlled Access and Security

- **Automated Gates**: Heavy-duty gates with biannual code changes (Memorial Day and Labor Day) restrict access to verified members.
- **Security Cameras**: High-resolution cameras with 24/7 recording and cloud backup deter unauthorized use and provide evidence for enforcement.
- **Fencing**: Tamper-resistant fencing around the ramp and easement gate minimizes vandalism and unauthorized entry.
- **Signage**: Clear signs indicating private use, surveillance, and mussel prevention protocols enhance compliance.

Safe Infrastructure

- **County Standards**: Design the ramp to meet San Luis Obispo County safety and environmental requirements, reducing accident risks.
- **Maintenance**: Regular inspections ensure the ramp and surrounding area remain free of hazards.
- **Traffic Management**: Designated parking and flow plans reduce congestion, improving safety for vehicles and pedestrians.

Emergency Access

- **Firefighting Support**: Provides a stable, year-round staging area for fire crews to draw water from Lake Nacimiento, enhancing wildfire response times.
- **Coordination**: Share access codes or keys with Monterey and San Luis Obispo County Fire for seamless emergency access.
- **Community Safety**: Facilitates effective firefighting, protecting homes, businesses, and natural areas.

Enforcement

- **Membership Verification**: Issue annual rear-view mirror hangers with current-year stickers to dues-paying members, ensuring only authorized users access the ramp.
- **Violation Protocols**: Issue written warnings for unauthorized access, with repeat violations reported to the Monterey County Sheriff's Office, supported by camera footage and documentation.
- **Code of Conduct Revision**: Revise the Town Creek Association member code of conduct to include provisions for removing members who fail to comply with lease terms, such as mussel prevention protocols or access regulations, ensuring accountability and protecting the integrity of the facility.

Implementation Plan

1. Site Plan and Approvals

- Collaborate with county planners and environmental experts to select a low-impact site at Lake Nacimiento.
- Design the ramp and optional secondary ramp to meet safety, environmental, and mussel prevention standards.
- Secure necessary permits from San Luis Obispo County and state agencies.

2. Funding and Management

- Fund construction through association dues, private grants, member contributions, and possible county and state grants
- Establish an association committee to oversee construction, maintenance, and mussel prevention efforts.

3. Installation and Operation

- Contract a professional security company to install gates, cameras, fencing, and signage compliant with county regulations.
- Implement annual hanger issuance and biannual gate code changes synchronized with Memorial Day and Labor Day.
- Launch an educational campaign on mussel prevention and compliance requirements.

4. Monitoring and Maintenance

- Conduct regular inspections of infrastructure and security systems.
- Review camera footage and membership records to ensure compliance.
- Provide annual updates to members and county officials on ramp usage, security, and environmental efforts.

Conclusion

The proposed permanent launch ramp at Lake Nacimiento, managed by the Town Creek Association under a 10-year lease with renewal options, is a strategic initiative that delivers multifaceted benefits. By enhancing recreational opportunities, ensuring safety, facilitating emergency access, and prioritizing invasive mussel prevention, the project strengthens association membership, protects Monterey County's waterways, and supports community and economic goals. We respectfully request Monterey County's support through lease approval and necessary permits, recognizing the project's alignment with public safety, environmental stewardship, and sustainable recreation. For further discussion, please contact Jason Linker, Town Creek Association.

Town Creek Association Permanent Launch Ramp Site Plan

GRADING GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION AND AMENDMENTS OF THE CALIFORNIA BUILDING CODE. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE APPLICABLE CITY/COUNTY STANDARDS AND CALTRANS STANDARD SPECIFICATIONS, LATEST ADOPTED EDITION AND AMENDMENTS. IN THE EVENT THAT THERE IS A CONFLICT BETWEEN CODES, THE CONTRACTOR WILL NOTIFY THE CIVIL ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION. WORK SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING:
   1.1. CHAPTER 18 AND APPENDIX J OF THE 2019 CBC
   1.2. SAN LUIS OBISPO COUNTY TITLE 19, 22, AND 23
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEARING AND DISPOSAL OF THE PROPOSED WORK AREA. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIAL LEGALLY AND IS RESPONSIBLE FOR COMPLYING WITH LOCAL RECYCLING ORDINANCES.
3. NO FILL SHALL BE PLACED ON THE EXISTING GROUND SURFACE UNTIL THE GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS, TOPSOIL, DELETERIOUS MATERIAL AND SCARIFIED AND COMPACTED PER THE GEOTECHNICAL RECOMMENDATIONS.
4. CUT AND FILL SLOPES SHALL BE NO STEEPER THAN TWO FEET HORIZONTAL TO ONE FOOT VERTICAL, 2:1.
5. FILLS SHALL BE COMPACTED TO THE MINIMUM PERCENTAGE OF MAXIMUM DRY DENSITY AS SPECIFIED IN THE PROJECT SOILS REPORT AND CERTIFIED BY THE GEOTECHNICAL ENGINEER.
6. ALL EXISTING FILLS SHALL BE BE APPROVED BY THE GEOTECHNICAL ENGINEER BEFORE ANY ADDITIONAL FILLS ARE ADDED.
7. ALL EXPOSED SLOPES SHALL BE PLANTED PER THE PROJECT LANDSCAPE PLANS AND IRRIGATED UNTIL GROUND COVER IS ESTABLISHED.
8. THE STOCKPILING OF EXCESS MATERIAL IS SUBJECT TO THE APPROVAL OF THE AGENCY.
9. ALL TRENCH BACKFILLS SHALL BE TESTED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
10. ALL CUT SLOPES SHALL BE INVESTIGATED BY THE GEOTECHNICAL ENGINEER DURING GRADING TO DETERMINE IF ANY SLOPE STABILITY PROBLEMS EXIST. SHOULD EXCAVATION DISCLOSE ANY GEOTECHNICAL HAZARDS OR POTENTIAL GEOTECHNICAL HAZARDS THE GEOTECHNICAL ENGINEER SHALL RECOMMEND NECESSARY TREATMENT TO THE CONTRACTOR.
11. THE FINAL COMPACTION REPORT AND APPROVAL FROM THE GEOTECHNICAL ENGINEER SHALL CONTAIN DETAILS REGARDING THE TYPE OF FIELD TESTING PERFORMED INCLUDING THE METHOD OF OBTAINING THE IN-PLACE DENSITY, WHETHER SAND CONE, NUCLEAR GAUGE, OR DRIVE RING SHALL BE NOTED FOR EACH TEST. SUFFICIENT MAXIMUM DENSITY DETERMINATIONS SHALL BE PERFORMED TO VERIFY THE ACCURACY OF THE MAXIMUM DENSITY CURVES USED BY THE FIELD TECHNICIAN.
12. SANITARY FACILITIES SHALL BE MAINTAINED ON SITE THROUGHOUT THE DURATION OF CONSTRUCTION.
13. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF AND PROTECT ALL EXISTING UTILITIES AND TO ENSURE THAT SERVICE IS NOT DISRUPTED TO EXISTING FACILITIES.
14. ALL EXISTING DRAINAGE COURSES ON THE PROJECT SITE MUST CONTINUE TO FUNCTION, ESPECIALLY DURING STORM CONDITIONS AND APPROVED PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT EXISTING STRUCTURES AND ADJACENT PROPERTIES DURING THE CONSTRUCTION PROJECT. IN ALL CASES, THE CONTRACTOR AND/OR OWNER SHALL BE HELD LIABLE FOR ANY DAMAGE DUE TO OBSTRUCTING EXISTING DRAINAGE PATTERNS.
15. ALL PLANTERS ADJACENT TO THE FOUNDATIONS SHALL BE SEALED ALONG THE SIDE OF THE FOUNDATION FOOTING AND EXTENDED UNDER THE PLANTER A MINIMUM OF 12" TO PREVENT MOISTURE FROM REACHING THE FOUNDATION SUB-GRADE SOILS.
16. EXPORTED MATERIAL SHALL BE TAKEN TO A LEGAL DUMP SITE OR PERMITTED RECEIVING SITE APPROVED BY THE LOCAL AGENCY HAVING JURISDICTION.
17. PERMISSION IS REQUIRED FROM THE ADJACENT PROPERTY OWNER WHENEVER WORK IS PROPOSED OR NECESSARY ACROSS THE PROJECT'S PROPERTY LINES.
18. ANY DIRT, ROCK, DEBRIS OR CONSTRUCTION MATERIAL THAT IS TRACKED OR DROPPED WITHIN THE PUBLIC RIGHT OF WAY DURING THE TRANSPORTATION OF THAT MATERIAL OR EQUIPMENT ASSOCIATED WITH THE PROJECT SHALL BE CLEANED OR REMOVED DAILY.
19. DIRT ACCESS RAMP OVER CURBS AND GUTTERS TO THE CONSTRUCTION SITE ARE PROHIBITED. WHEN NECESSARY FOR ENTRANCE TO SUCH CONSTRUCTION SITES, TEMPORARY ASPHALT RAMPS WITH A MINIMUM OF A 3" DIAMETER PIPE SHALL BE CONSTRUCTED TO CONVEY GUTTER DRAINAGE.
20. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND OBTAINING REQUIRED PERMITS FROM THE DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (OSHA).
21. PROPOSED REVISIONS TO THE GRADING PLAN SHALL BE DRAWN IN RED PENCIL ON BOND COPIES OF THE APPROVED PLANS. THESE COPIES SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR APPROVAL. AFTER APPROVAL IS GIVEN, THE OWNER MAY REQUIRE AS-BUILT OF THE PLANS.
22. RULE 403. AIR QUALITY CONTROL MUST BE IMPLEMENTED DURING CONSTRUCTION:
   22.1. A PERSON SHALL NOT CAUSE OR ALLOW THE EMISSIONS OF FUGITIVE DUST FROM ANY TRANSPORT, HANDLING, CONSTRUCTION OR STORAGE ACTIVITY SO THAT THE PRESENCE OF SUCH DUST REMAINS VISIBLE IN THE ATMOSPHERE BEYOND THE PROPERTY LINE OF THE EMISSION SOURCE. (DOES NOT APPLY TO EMISSION EMANATING FROM UNPAVED ROADWAYS OPEN TO PUBLIC TRAVEL OR FARM ROADS. THIS EXCLUSION SHALL NOT APPLY TO INDUSTRIAL OR COMMERCIAL FACILITIES).
   22.2. A PERSON SHALL TAKE EVERY RESPONSIBLE PRECAUTION TO MINIMIZE FUGITIVE DUST EMISSIONS FROM WRECKING, EXCAVATION, GRADING, CLEARING OF LAND AND SOLID WASTE DISPOSAL OPERATIONS.
   22.3. A PERSON SHALL NOT CAUSE OR ALLOW PARTICULATE MATTER TO EXCEED 100 MICROGRAMS PER CUBIC METER WHEN DETERMINED AS THE DIFFERENCE BETWEEN UPWIND AND DOWNWIND SAMPLES COLLECTED ON HIGH VOLUME SAMPLERS AT THE PROPERTY LINE FOR A MINIMUM OF FIVE HOURS.
   22.4. A PERSON SHALL TAKE EVERY REASONABLE PRECAUTION TO PREVENT VISIBLE PARTICULATE MATTER FROM BEING DEPOSITED UPON PUBLIC ROADWAYS. PRECAUTIONS SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE REMOVAL OF PARTICULATE MATTER FROM EQUIPMENT PRIOR TO THE MOVEMENT ON PAVED STREETS ONTO WHICH SUCH MATERIAL HAS BEEN DEPOSITED.
   22.5. SUBSECTIONS (22.1) AND (22.2) SHALL NOT BE APPLICABLE WHEN THE WIND SPEED INSTANTANEOUSLY EXCEEDS 40 KILOMETERS (25 MILES) PER HOUR, OR WHEN THE AVERAGE WIND SPEED IS GREATER THAN 25 KILOMETERS (15 MILES) PER HOUR. THE AVERAGE WIND SPEED DETERMINATIONS SHALL BE ON A 15 MINUTE AVERAGE AT THE NEAREST OFFICIAL AIR-MONITORING STATION OR BY A WIND INSTRUMENT LOCATED AND MONITORED ON SITE.
23. CONSTRUCTION ACTIVITIES SHALL OCCUR ONLY BETWEEN THE HOURS OF 7:00 AM AND 7:00 PM, MONDAY THROUGH FRIDAY AND BETWEEN THE HOURS OF 9:00 AM AND 6:00 PM SATURDAYS, UNLESS OTHERWISE AUTHORIZED BY THE OWNER AND AGENCY.
24. CONTRACTOR SHALL USE LOW EMISSION MOBILE CONSTRUCTION EQUIPMENT DURING ALL SITE PREPARATION, GRADING AND CONSTRUCTION ACTIVITIES, WHERE FEASIBLE.
25. CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION ENGINES TUNED CONSISTENT WITH MANUFACTURER'S SPECIFICATIONS DURING ALL SITE PREPARATION, GRADING AND CONSTRUCTION ACTIVITIES.
26. CONTRACTOR SHALL USE LOW SULFUR FUEL FOR STATIONARY CONSTRUCTION EQUIPMENT AS REQUIRED BY AQMD RULE 431.1 AND 431.2 AND SHALL USE EXISTING POWER SOURCES AND CLEAN FUEL GENERATORS WHEN POSSIBLE AS FEASIBLE DURING ALL SITE PREPARATION, GRADING AND CONSTRUCTION ACTIVITIES.
27. CONSTRUCTION PARKING SHALL BE ONSITE. TRAFFIC CONTROL AND ACCESS SHALL BE IN ACCORDANCE WITH THE AGENCY HAVING JURISDICTION OVER THE PROJECT.
28. THE SPEED OF CONSTRUCTION VEHICLES ON-SITE SHALL BE LIMITED TO 15 MILES PER HOUR.
29. TRUCKS AND LARGE CONSTRUCTION VEHICLES SHALL OBTAIN APPROVED ROUTES FROM THE AGENCY'S PUBLIC WORKS DEPARTMENT.
30. THE CONTRACTOR SHALL CONTROL DUST IN AREAS USED FOR OFF-PAVEMENT PARKING, MATERIAL LAYDOWN AREAS OR THOSE AREAS AWAITING FUTURE CONSTRUCTION. FREQUENTLY ACCESSED AREAS SHALL BE PAVED OR BASED AS EARLY AS POSSIBLE TO MINIMIZE DIRT TRACKING ONTO THE PUBLIC RIGHT OF WAY.
31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING MEASURE:
   31.1. CESSATION OF ACTIVITIES DURING A STAGE-2 SMOG EPISODE. CALL 800-242-4022 FOR THE DAILY SMOG FORECAST.
   31.2. TRUCK ROUTES AND SCHEDULES FOR THE RECEIPT OF MATERIALS SHALL BE COORDINATED WITH THE APPROPRIATE AGENCIES.
   31.3. WHERE FEASIBLE, ON-ROAD AND OFF-ROAD VEHICLES AND EQUIPMENT SHALL BE TURNED OFF AND SUBSEQUENTLY RESTARTED IF THE ANTICIPATED DURATION OF IDLING IS EXPECTED TO EXCEED FIVE MINUTES.
32. THE CONTRACTOR SHALL IMPLEMENT THE FOLLOWING HIGH WIND DUST CONTROL MEASURE WHEN INSTANTANEOUS WIND SPEEDS EXCEED 25 MILES PER HOUR:
   32.1. TERMINATION / MODIFICATION OF SCRAPERS, GRADERS OR DOZERS ON UNPAVED SURFACES UNTIL WINDS SUBSIDE.
   32.2. APPLICATION OF WATER AS NEEDED TO ANY UNPAVED SURFACE WITH VEHICLE OR EQUIPMENT OPERATIONS.
   32.3. APPLICATION OF WATER OR OTHER DUST CONTROL MATERIAL TO ANY PREVIOUSLY GRADED SURFACE IF DUST EMANATION IS VISIBLE FROM SUCH A SURFACE.
33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EQUIPMENT TO PREVENT VISIBLE SOOT FROM REDUCING LIGHT TRANSMISSION THROUGH THE EXHAUST STACK BY MORE THAN 20 PERCENT FOR MORE THAN THREE MINUTES PER HOUR AND USE LOW SULFUR FUEL AS REQUIRED BY THE APPROPRIATE AGENCY.
34. TRUCKS USED IN HAULING DIRT TO OR FROM THE SITE ON PUBLIC ROADS WILL BE COVERED OR WILL MAINTAIN A SIX INCH DIFFERENTIAL BETWEEN THE MAXIMUM HEIGHT OF ANY MATERIAL HAULED AND THE TOP OF THE TRAILER. HAUL TRUCK DRIVERS WILL LOAD PRIOR TO LEAVING THE SITE TO PREVENT SOIL LOSS DURING TRANSPORTATION.
35. PURSUANT TO SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE, EXISTING SURVEY MONUMENTS SHALL BE NOTED AND DOCUMENTED BEFORE CONSTRUCTION. IF ANY MONUMENTS ARE DISTURBED DURING CONSTRUCTION THE CONTRACTOR SHALL PAY A LICENSED LAND SURVEYOR OR REGISTERED ENGINEER TO RESET SUCH MONUMENTS.

PROFESSIONAL ENGINEERS NOTICE TO CONTRACTOR

1. ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR AND THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS "CONSTRUCTION SAFETY ORDERS." THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTORS AND SUBCONTRACTORS COMPLIANCE WITH SAID REGULATIONS AND ORDERS.
2. CONTRACTOR FURTHER AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB-SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE CIVIL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
3. THE EXISTENCE AND APPROXIMATE LOCATIONS OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. THE CIVIL ENGINEER ASSUMES NO LIABILITY AS TO THE EXACT LOCATION OF SAID LINES NOR FOR UTILITY OR IRRIGATION LINES WHOSE LOCATIONS ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY AND IRRIGATION COMPANIES PRIOR TO WORK OR EXCAVATION TO DETERMINE THE EXACT LOCATIONS OF ALL LINES AFFECTING THIS WORK, WHETHER OR NOT SHOWN HEREON, AND FOR ANY DAMAGE TO OR PROTECTION OF THESE LINES.

DEMOLITION GENERAL NOTES

1. UTILITIES: THE EXISTENCE AND APPROXIMATE LOCATIONS OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS AND BEST RECOLLECTION OF FACILITY STAFF, THE CIVIL ENGINEER ASSUMES NO LIABILITY AS TO THE EXACT LOCATION OF SAID LINES NOR FOR UTILITY OR IRRIGATION LINES WHOSE LOCATIONS ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY AND IRRIGATION COMPANIES PRIOR TO WORK OR POT HOLE TO DETERMINE THE EXACT LOCATIONS OF ALL LINES AFFECTING THIS WORK, WHETHER OR NOT SHOWN HEREON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO OR PROTECTION OF ALL EXISTING UTILITY LINES.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION OF THE SITE AND SHALL REMOVE AND DISPOSE OF ALL STRUCTURES ABOVE AND OR BELOW GROUND UNLESS OTHERWISE NOTED. ANY HAZARDOUS MATERIALS ENCOUNTERED SHALL BE HANDLED AND REMOVED AS REQUIRED BY LOCAL AND/OR STATE LAWS AT NO COST TO THE OWNER.
3. THE CONTRACTOR SHALL EXERCISE DUE CARE TO AVOID DAMAGE TO EXISTING HARDSCAPE IMPROVEMENTS , UTILITY FACILITIES, AND LANDSCAPING FEATURES THAT ARE NOT AFFECTED BY THESE PLANS.
4. ALL JOIN LINES SHALL BE SAW CUT ON A NEAT, STRAIGHT LINE PARALLEL WITH THE JOIN. THE CUT EDGE SHALL BE PROTECTED FROM CRUSHING, AND ALL BROKEN EDGES SHALL BE RECUT PRIOR TO JOINING.
5. ALL EXISTING OBJECTIONABLE MATERIALS THAT CONFLICT WITH PROPOSED IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, BUILDING FOUNDATIONS, UTILITIES AND APPURTENANCES, TREES, SIGNS, AND STRUCTURES, ETC. SHALL BE REMOVED AND DISPOSED BY THE CONTRACTOR AT NO COST TO THE OWNER, UNLESS OTHERWISE INDICATED HEREIN, OR AS DIRECTED BY THE CONSTRUCTION MANAGER.
6. THE CONTRACTOR SHALL PROTECT ALL EXISTING STREETS FROM DAMAGES CAUSED BY HIS OPERATIONS. ANY CURBS DAMAGED DURING HIS OPERATIONS SHALL BE SAWCUT AND REPLACED AT NO COST TO THE OWNER. ANY EXISTING PAVING IDENTIFIED AS POTENTIALLY NEEDING TO BE REPLACED SHALL BE BROUGHT TO THE ATTENTION OF THE OWNERS REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF WORK.
7. THE CONTRACTOR SHALL PERFORM AND BE RESPONSIBLE FOR ALL CLEARING AND GRUBBING OPERATIONS AS NECESSARY TO COMPLETE THE WORK, INCLUDING TRANSPORTATION AND DISPOSAL OF ALL REMOVED MATERIALS, AND ALL ASSOCIATED COSTS.

ACCESSIBILITY NOTICE TO CONTRACTOR

1. ALL SLOPES IN DIRECTION OF TRAVEL SHOWN ON THIS PLAN WERE DESIGNED AT OR BELOW MAXIMUM ALLOWED GRADES BY THE AMERICANS WITH DISABILITIES ACT ACCESS GUIDE (ADAAG), AND THE CALIFORNIA BUILDING CODE (CBC) IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO FAMILIARIZE THEMSELVES WITH THE ADAAG AND CBC AND IN THE EVENT THAT A DESIGN QUESTION SHOULD ARISE, OR A FIELD CONDITION PRESENT ITSELF THAT IS DIFFERENT THAN SHOWN ON THESE PLANS, WORK SHOULD CEASE AND THE DESIGN ENGINEER SHALL BE NOTIFIED SO THAT AN ACCEPTABLE SOLUTION CAN BE DETERMINED.
2. THE CONTRACTOR IS ADVISED TO CAREFULLY CHECK ALL PHASES OF WORK RELATING TO ADAAG AND CBC ACCESS FOR THIS PROJECT. SINCE THE CODE DOES NOT ALLOW FOR A CONSTRUCTION TOLERANCE, ANY CONSTRUCTION THAT EXCEEDS MAXIMUM OR MINIMUM DIMENSIONS AND SLOPES AS CALLED OUT BY ADAAG AND CBC ARE SUBJECT TO REJECTION BY THE INSPECTOR AND MAY BE REQUIRED TO BE REMOVED AND REPLACED.
3. SINCE THE CIVIL ENGINEER OR SURVEYOR CANNOT CONTROL THE EXACT METHODS OR MEANS USED BY THE GENERAL CONTRACTOR OR THEIR SUB-CONTRACTORS DURING THE GRADING AND CONSTRUCTION OF THE PROJECT, THE CIVIL ENGINEER OR SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE FINAL ACCEPTANCE OF ADAAG AND CBC RELATED ITEMS OF THIS PROJECT BY THE INSPECTING AUTHORITY OR OTHER AFFECTED PARTIES.
4. COMPLIANCE WITH THE ADAAG AND CBC CONSTRUCTION REQUIREMENTS AND CALIFORNIA TITLE 24 WILL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS.

PROJECT INFORMATION

ZONING:	OS
APN:	080-111-001
FLOOD ZONE:	ZONE A
SITE AREA:	632 AC
AREA DISTURBED:	0.5 AC
WDID NUMBER:	NOT REQUIRED (LESS THAN 1 ACRE)
GRADING INFORMATION*	
CUT QUANTITY:	450 CUBIC YARDS
FILL QUANTITY:	450 CUBIC YARDS
NET CUT/FILL:	0 CUBIC YARDS EXPORT

* EARTHWORK QUANTITIES ARE PROVIDED FOR PERMITTING INFORMATION ONLY. THE QUANTITIES SHOWN ABOVE ARE NOT INTENDED FOR USE BY THE CONTRACTOR WHEN ESTIMATING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO GENERATE AND/OR VERIFY EARTHWORK QUANTITIES.

SURVEY NOTES

BENCHMARK:
THE BENCHMARK FOR THIS PROJECT IS A FOUND 1/2" REBAR WITH PLASTIC CAP STAMPED "RCE 14994" (TCS #104) LOCATED ALONG THE WESTERN PROPERTY LINE APPROXIMATELY 32' NORTHEAST OF TOWN CREEK ROAD AND 13' SOUTH OF THE EXISTING FENCE LINE

ELEVATION = 807.39'

BASIS OF BEARING:
THE BASIS OF BEARING FOR THIS PROJECT IS PROVIDED BY THE PROJECT SURVEYOR. THE BASIS OF BEARING IS BASED ON FOUND MONUMENTS ALONG THE WESTERN PROPERTY LINE. THAT BEARING IS N 01°29'59" E

ORIGIN OF SURVEY INFORMATION:
THE TOPOGRAPHIC INFORMATION SHOWN IN THESE DRAWINGS AND USED TO DESIGN THE INFORMATION SHOWN ON THESE DRAWINGS WAS PERFORMED AND PREPARED BY TWIN CITIES SURVEYING INC. ON SEPTEMBER 09, 2016. IF DISCREPANCIES ARE ENCOUNTERED DURING CONSTRUCTION THE SURVEYOR AND CONTRACTOR WILL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY AND PRIOR TO CONTINUING CONSTRUCTION.

PROJECT PARTICIPANTS

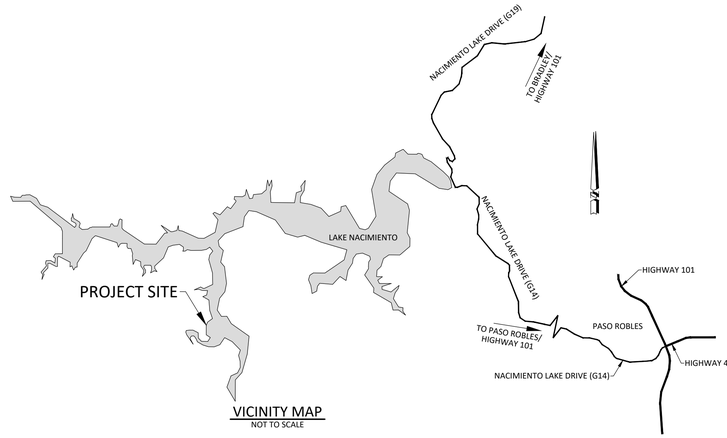
PROPERTY OWNER:	MONTEREY COUNTY WATER RESOURCES AGENCY 1441 SCHILLING PLACE, NORTH BUILDING SALINAS, CA 93901 831.755.4860
AGENCY:	COUNTY OF SAN LUIS OBISPO 976 OSOS STREET, SUITE 200 SAN LUIS OBISPO, CA 93401 805.781.5600
CIVIL ENGINEER:	CIVIL DESIGN STUDIO, INC. MONTE SOTO, P.E., QSD P.O. BOX 199 CAMBRIA, CA 93428 805.706.0401

ABBREVIATIONS

APWA	AMERICAN PUBLIC WORKS ASSOCIATION	JP	JOINT POLE
AC	ASPHALTIC CONCRETE	L/A	LANDSCAPE AREA
ARCH	ARCHITECT	LP	LIGHT POLE / LOW POINT
AV	AIR VAC RELEASE	MH	MANHOLE
BLDG	BUILDING	MJ	MECHANICAL JOINT
BCR	BEGIN CURB RETURN	MON	MONUMENT
BEG	BEGINNING	NG	NATURAL GRADE
BF	BLIND FLANGE	NAP	NOT A PART
BSW	BACK OF SIDEWALK	OH / OHD	OVERHEAD UTILITY
BVC	BEGIN VERTICAL CURVE	P/A	PLANTER AREA
BW	BOTTOM OF WALL	P/L	PROPERTY LINE
BO	BLOW OFF	PC	POINT OF CURVATURE
C/L	CENTERLINE	PCCR	POINT OF COMPOUND CURVE
CB	CATCH BASIN	PCC	PORTLAND CEMENT CONCRETE
CMU	CONCRETE MASONRY UNIT	PE	PAD ELEVATION
CO	CLEANOUT	PI	POINT OF INFLECTION
CONC	CONCRETE	POC	POINT OF CONNECTION (UTILITY)
DDC	DOUBLE DETECTOR CHECK	PP	POWER POLE
D/W	DRIVEWAY	PRCR	POINT OF REVERSE CURVE
ECR	END CURB RETURN	PS	PARKING STRIPE
EG	EXISTING GRADE	PT	POINT OF TANGENCY
EL.	ELEVATION	PUE	PUBLIC UTILITY EASEMENT
ENG	ENGINEER	PVI	POINT OF VERTICAL INFLECTION
EP	EDGE OF PAVEMENT	R/W, ROW	RIGHT OF WAY
ESMT	EASEMENT	RP	REDUCED PRESSURE BACKFLOW DEVICE
EVC	END VERTICAL CURVE	SD	STORM DRAIN
FDC	FIRE DEPARTMENT CONNECTION	SG	SUB-GRADE ELEVATION
FF	FINISHED FLOOR ELEVATION	SS	SANITARY SEWER
FG	FINISHED GROUND ELEVATION	STA	STATION
FH	FIRE HYDRANT	TB	THRUST BLOCK
FL	FLOW LINE	TC	TOP OF CURB
FLG	FLANGED	TEL	TELEPHONE
FS	FINISHED SURFACE ELEVATION	TF	TOP OF FOOTING
GB	GRADE BREAK	TI	TRAFFIC INDEX
GM	GAS METER	TG	TOP OF GRATE
GV	GAS VALVE	TW	TOP OF WALL
GTD	GRADE TO DRAIN	VC	VERTICAL CURVE
GUY	GUY WIRE ANCHOR	VLT	VAULT
HB	HOSE BIB	WDID	WASTE DISCHARGE IDENTIFICATION NUMBER
HP	HIGH POINT	WL	WATERLINE
IE	SEWER INVERT ELEVATION	WM	WATER METER
ICV	IRRIGATION CONTROL VALVE	WV	WATER VALVE
INV	STORM DRAIN INVERT ELEVATION		
IRR	IRRIGATION		

LEGEND

- SD — STORM DRAIN LINE
- SS — SANITARY SEWER LINE
- SFM — SEWER FORCE MAIN
- WL — WATER LINE
- G — GAS LINE
- E — (E) ELECTRIC LINE
- FLOWLINE
- (E) FLOWLINE
- (E) MAJOR CONTOUR
- (E) MINOR CONTOUR
- RETAINING WALL
- PROPERTY LINE
- STREET CENTERLINE
- (E) BUILDING
- ASPHALT PAVING
- CONCRETE IN DRIVE AISLE
- CONCRETE IN PEDESTRIAN AREA
- PLANTER AREA
- DETECTABLE WARNING SURFACE
- (435.55) EG — (E) ELEVATION
- 436.55 FS — FINISH SURFACE ELEVATION
- 1.0% — FINISH SURFACE GRADE
- (1.0%) — (E) SURFACE GRADE
- (E) SD MANHOLE
- (E) SS MANHOLE
- (E) SD CATCH BASIN
- (E) SD/SS CLEANOUT
- (E) FIRE HYDRANT
- (E) WATER METER
- (E) WATER VALVE
- (E) BACKFLOW DEVICE
- (E) FIRE DEPARTMENT CONNECTION
- (E) POST INDICATOR VALVE
- (E) GREASE INTERCEPTOR
- SD MANHOLE
- SS MANHOLE
- SD CATCH BASIN
- SD/SS CLEANOUT
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- BACKFLOW DEVICE
- FIRE DEPARTMENT CONNECTION
- POST INDICATOR VALVE
- GREASE INTERCEPTOR
- YARD DRAIN
- THRUST BLOCK



VICINITY MAP
NOT TO SCALE

PROJECT ROAD MAP

SCOPE OF WORK:
THE SCOPE OF WORK DEFINED BY THESE PLANS INCLUDES GRADING (PMTG2021-_____) TO CONSTRUCT A RECREATIONAL BOAT RAMP, AND IMPLEMENTATION OF EROSION AND SEDIMENT CONTROL MEASURES FOR ALL DISTURBED SOIL AREAS.

THESE PLANS ALLOW FOR CONSTRUCTION OF THE FOLLOWING :

- GRADING FOR RECREATIONAL BOAT RAMP
- EROSION AND SEDIMENT CONTROL FOR ALL DISTURBED SOIL AREAS

SEPARATE PERMITS:
-

PRE CONSTRUCTION MEETING:
A PRE-CONSTRUCTION MEETING IS REQUIRED WITH THE INSPECTOR TO GO OVER SPECIAL INSPECTION REPORTING REQUIREMENTS , EROSION AND SEDIMENTATION CONTROL, AND REPORTS REQUIRED. CALL MICHELLE FREEMAN AT 805.461.6199

SPECIAL INSPECTION TABLE:
SEE TABLE 1705.6 FROM THE 2019 CALIFORNIA BUILDING CODE, THIS SHEET.

SPECIAL CERTIFICATIONS:
SPECIAL INSPECTORS SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL. NAMES AND QUALIFICATIONS OF SPECIAL INSPECTOR(S) SHALL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND BUILDING FOR APPROVAL.

PAD CERTIFICATION:
PAD CERTIFICATION IS REQUIRED. A SOIL OR CIVIL ENGINEER TO DETERMINE GRADING PERFORMED IS IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS AND IS SUITABLE TO SUPPORT THE INTENDED STRUCTURE

REPORTS REQUIRED:
ENGINEER OF RECORD TO PROVIDE A FINAL REPORT STATING THAT WORK PERFORMED IS IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS

TABLE 1705.6 (2019 CALIFORNIA BUILDING CODE)

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		X

SHEET LIST TABLE

Sheet #	Sheet Title
C100	TITLE SHEET
C200	EXISTING CONDITIONS AND DEMOLITION PLAN
C300	GRADING PLAN
C700	EROSION CONTROL PLAN
C800	DETAIL SHEET

DIGALERT
DIAL TOLL FREE
811 OR
(1-800-227-2600)
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF CALIFORNIA

PLAN PREPARED BY:
CIVIL DESIGN STUDIO
CIVIL ENGINEERING | PLANNING | PERMITTING
P.O. Box 199 | Cambria | Ca. 93428
805.706.0401 | www.civil-studio.com

ENGINEER OF RECORD:
PROFESSIONAL ENGINEER * MONTE R. SOTO * No. 94994 * REGISTERED CIVIL * STATE OF CALIFORNIA
PLANS NOT FOR CONSTRUCTION
PRELIMINARY REVIEW SET

PROJECT NAME:
NACIMIENTO BOAT RAMP

PROJECT LOCATION:
TOWN CREEK ROAD
LAKE NACIMIENTO
APN: 080-111-001

PLANS PREPARED FOR:
PRIVATE PROPERTY OWNERS
LAKE ACCESS ASSOCIATION

REVISIONS:

REVIEWED BY:	MRS
PREPARED BY:	JTI
DATE:	October 15, 2021
SCALE:	AS SHOWN
CDS JOB #:	16-054

TITLE SHEET

C100

SHEE 1 OF 5 SHEETS

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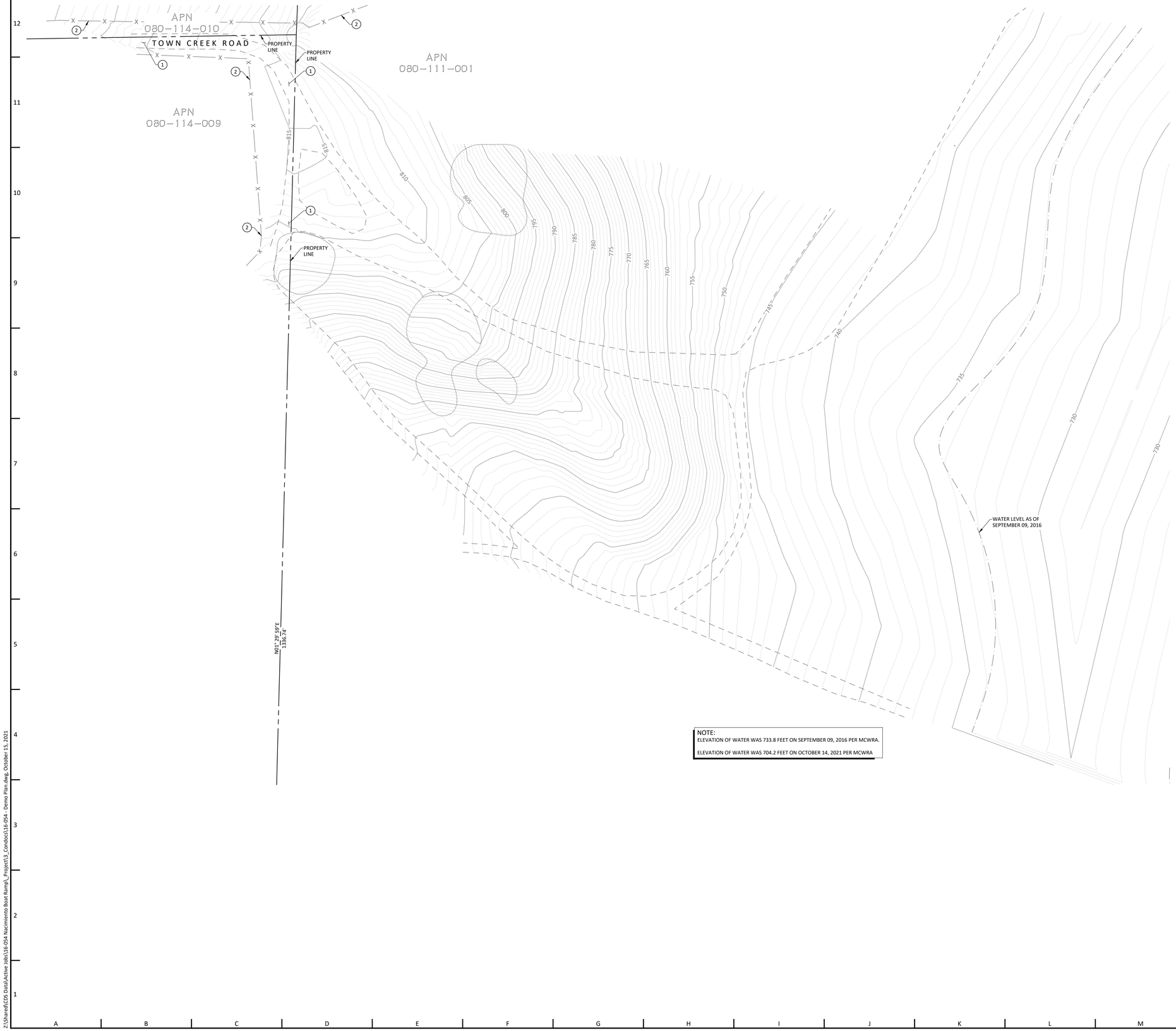

EXISTING TOPOGRAPHIC NOTES

1. EXISTING DIRT ROAD - PROTECT IN PLACE
2. EXISTING FENCE - PROTECT IN PLACE

DEMOLITION GENERAL NOTES

1. UTILITIES: THE EXISTENCE AND APPROXIMATE LOCATIONS OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS AND BEST RECOLLECTION OF FACILITY STAFF, THE CIVIL ENGINEER ASSUMES NO LIABILITY AS TO THE EXACT LOCATION OF SAID LINES NOR FOR UTILITY OR IRRIGATION LINES WHOSE LOCATIONS ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY AND IRRIGATION COMPANIES PRIOR TO WORK OR POT HOLE TO DETERMINE THE EXACT LOCATIONS OF ALL LINES AFFECTING THIS WORK, WHETHER OR NOT SHOWN HEREON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO OR PROTECTION OF ALL EXISTING UTILITY LINES.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION OF THE SITE AND SHALL REMOVE AND DISPOSE OF ALL STRUCTURES ABOVE AND OR BELOW GROUND UNLESS OTHERWISE NOTED. ANY HAZARDOUS MATERIALS ENCOUNTERED SHALL BE HANDLED AND REMOVED AS REQUIRED BY LOCAL AND/OR STATE LAWS AT NO COST TO THE OWNER.
3. THE CONTRACTOR SHALL EXERCISE DUE CARE TO AVOID DAMAGE TO EXISTING HARDSCAPE IMPROVEMENTS, UTILITY FACILITIES, AND LANDSCAPING FEATURES THAT ARE NOT AFFECTED BY THESE PLANS.
4. ALL JOIN LINES SHALL BE SAW CUT ON A NEAT, STRAIGHT LINE PARALLEL WITH THE JOIN. THE CUT EDGE SHALL BE PROTECTED FROM CRUSHING, AND ALL BROKEN EDGES SHALL BE RECUT PRIOR TO JOINING.
5. ALL EXISTING OBJECTIONABLE MATERIALS THAT CONFLICT WITH PROPOSED IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, BUILDING FOUNDATIONS, UTILITIES AND APPURTENANCES, TREES, SIGNS, AND STRUCTURES, ETC. SHALL BE REMOVED AND DISPOSED BY THE CONTRACTOR AT NO COST TO THE OWNER, UNLESS OTHERWISE INDICATED HEREIN, OR AS DIRECTED BY THE CONSTRUCTION MANAGER.
6. THE CONTRACTOR SHALL PROTECT ALL EXISTING STREETS FROM DAMAGES CAUSED BY HIS OPERATIONS. ANY CURBS DAMAGED DURING HIS OPERATIONS SHALL BE SAWCUT AND REPLACED AT NO COST TO THE OWNER. ANY EXISTING PAVING IDENTIFIED AS POTENTIALLY NEEDING TO BE REPLACED SHALL BE BROUGHT TO THE ATTENTION OF THE OWNERS REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF WORK.
7. THE CONTRACTOR SHALL PERFORM AND BE RESPONSIBLE FOR ALL CLEARING AND GRUBBING OPERATIONS AS NECESSARY TO COMPLETE THE WORK, INCLUDING TRANSPORTATION AND DISPOSAL OF ALL REMOVED MATERIALS, AND ALL ASSOCIATED COSTS.

NOTE:
ELEVATION OF WATER WAS 733.8 FEET ON SEPTEMBER 09, 2016 PER MCWRA.

ELEVATION OF WATER WAS 704.2 FEET ON OCTOBER 14, 2021 PER MCWRA

SCALE: 1" = 50'

50 25 0 50 100

PLAN PREPARED BY:
CIVIL DESIGN STUDIO
CIVIL ENGINEERING | PLANNING | PERMITTING
P.O. Box 199 | Cambria | Ca. 93428
805.706.0401 | www.civil-studio.com

ENGINEER OF RECORD:

PROFESSIONAL ENGINEER * ROBERT SOTO * REGISTERED * CIVIL * STATE OF CALIFORNIA
PLAN REVIEW SET NOT FOR CONSTRUCTION

PROJECT NAME:
NACIMIENTO BOAT RAMP

PROJECT LOCATION:
TOWN CREEK ROAD
LAKE NACIMIENTO
APN: 080-111-001

PLANS PREPARED FOR:
PRIVATE PROPERTY OWNERS
LAKE ACCESS ASSOCIATION

REVISIONS:

REVIEWED BY:	MRS
PREPARED BY:	JTI
DATE:	October 15, 2021
SCALE:	AS SHOWN
CDS JOB #:	16-054

EXISTING CONDITIONS AND DEMOLITION PLAN

C200

SHEE 2 OF 5 SHEETS

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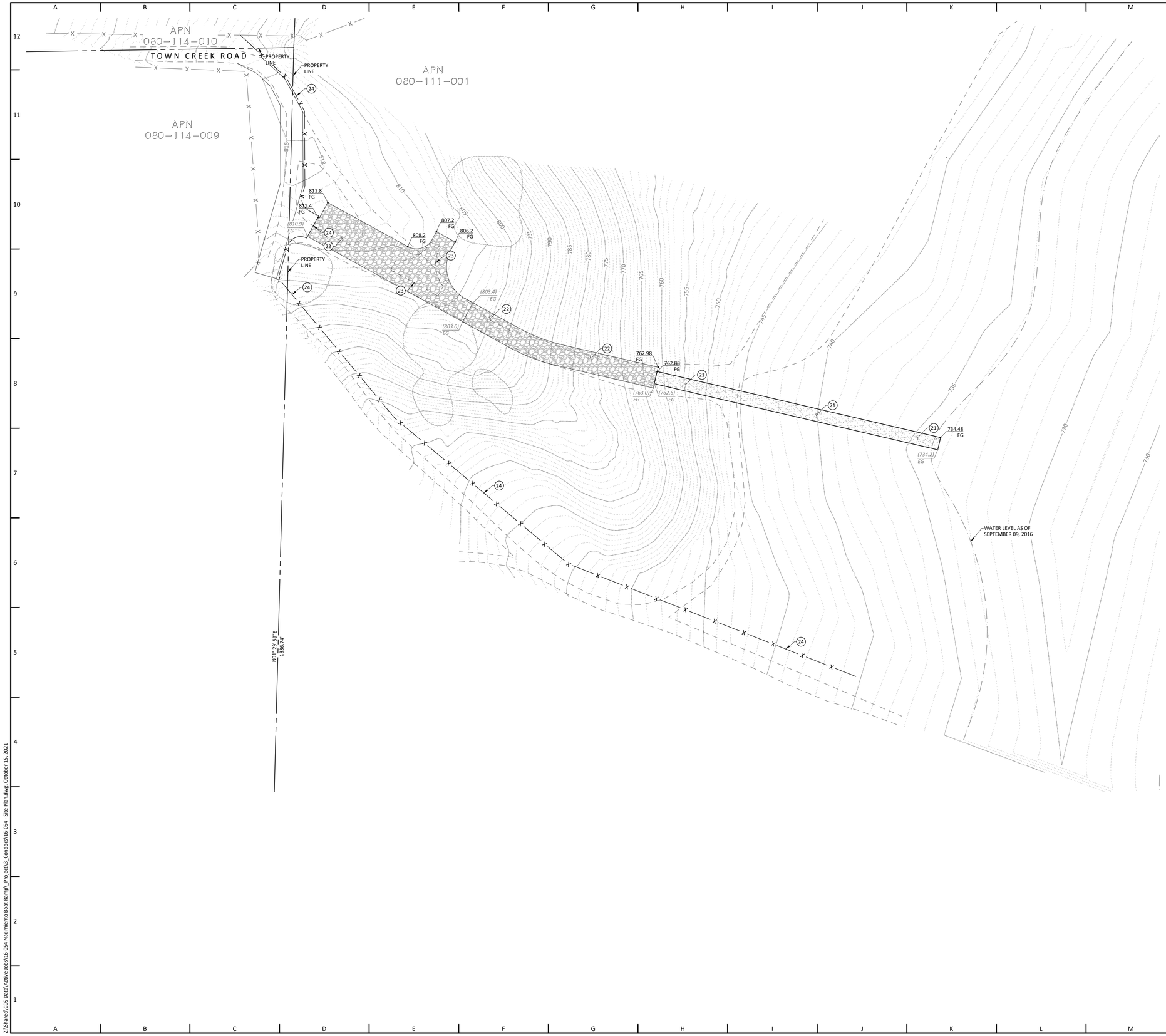

CONSTRUCTION NOTES

(21) CONSTRUCT 6" P.C.C. (520-C-2500) OVER 6" CLASS 2 BASE WITH THICKENED EDGE AT PERIMETER. REBAR REINFORCEMENT SHALL BE #4 @ 18" O.C. NATIVE SUBGRADE SCARIFIED TO A MINIMUM OF 12" AND COMPACTED TO 95% RELATIVE COMPACTION. SEE DETAIL "B1", SHEET C800 FOR THICKENED EDGE DETAIL AND TYPICAL CROSS SECTION

(22) CONSTRUCT 6" CLASS 2 BASE. NATIVE SUBGRADE SCARIFIED TO A MINIMUM OF 12" AND COMPACTED TO 95% RELATIVE COMPACTION. SEE DETAIL "B2", SHEET C800 TYPICAL CROSS SECTION

(23) PROPOSED HAMMERHEAD PER CAL FIRE STANDARD DRAWING NO FP-2

(24) PROPOSED SECURITY FENCE PER OTHERS

LEGEND

(21) CONCRETE

(22) CLASS 2 BASE

SCALE: 1" = 50'

50 25 0 50 100

PLAN PREPARED BY:
CIVIL DESIGN STUDIO
CIVIL ENGINEERING | PLANNING | PERMITTING
P.O. Box 199 | Cambria | Ca. 93428
805.706.0401 | www.civil-studio.com

ENGINEER OF RECORD:

PROFESSIONAL ENGINEER * R. SOTO * No. 74966 * CIVIL * STATE OF CALIFORNIA * REGISTERED

PLAN REVIEW SET NOT FOR CONSTRUCTION

PROJECT NAME:
NACIMIENTO BOAT RAMP

PROJECT LOCATION:
TOWN CREEK ROAD
LAKE NACIMIENTO
APN: 080-111-001

PLANS PREPARED FOR:
PRIVATE PROPERTY OWNERS
LAKE ACCESS ASSOCIATION

REVISIONS:

REVIEWED BY:	MRS
PREPARED BY:	JTI
DATE:	October 15, 2021
SCALE:	AS SHOWN
CDS JOB #:	16-054

GRADING PLAN

C300

SHEE 3 OF 5 SHEETS

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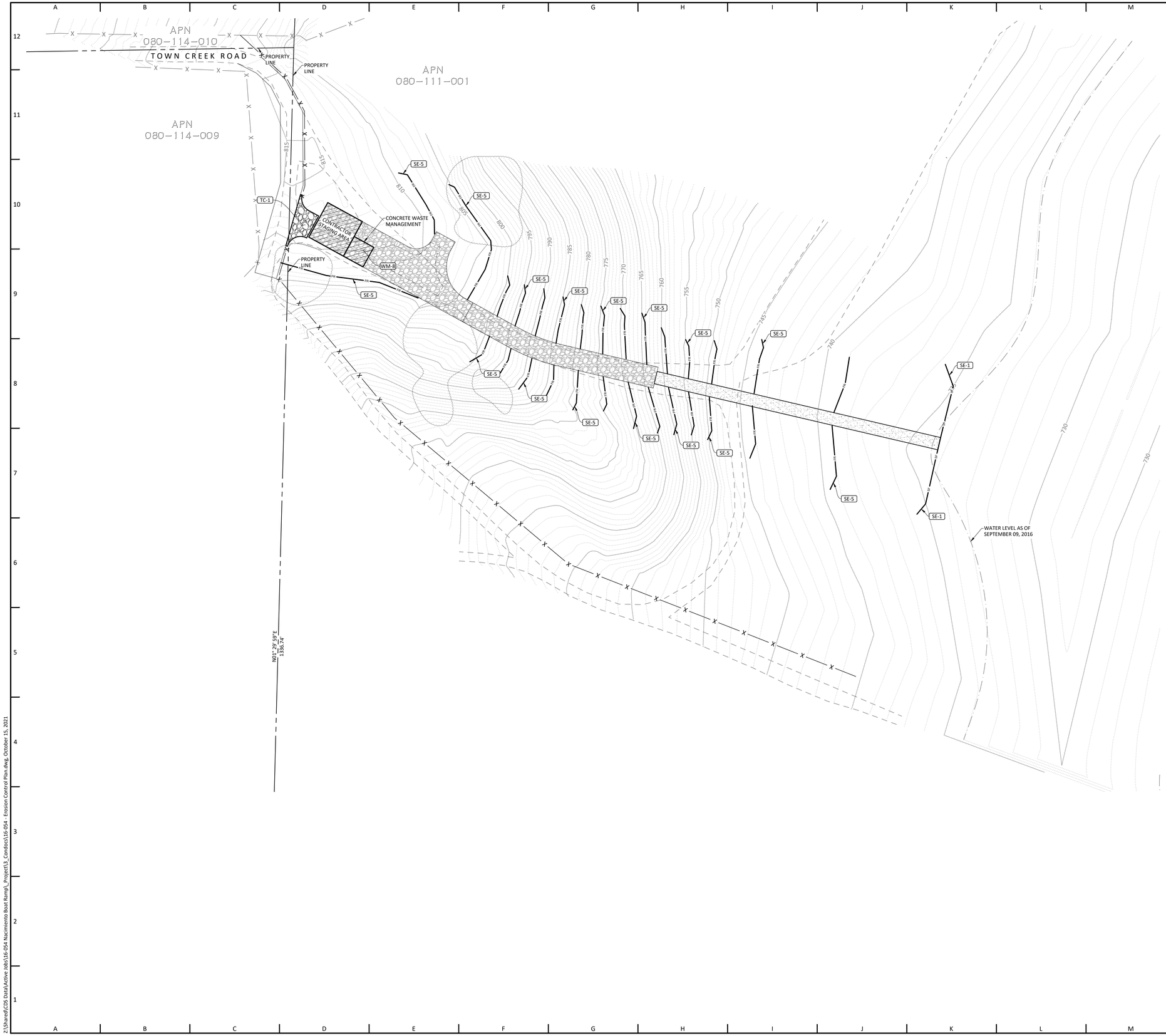

EROSION CONTROL NOTES

1. EROSION CONTROL MEASURES FOR WIND, WATER, MATERIAL STOCKPILES, AND TRACKING SHALL BE IMPLEMENTED ON ALL PROJECTS AT ALL TIMES AND SHALL INCLUDE SOURCE CONTROL, INCLUDING PROTECTION OF STOCKPILES, PROTECTION OF SLOPES, PROTECTION OF ALL DISTURBED AREAS, PROTECTION OF ACCESSES, AND PERIMETER CONTAINMENT MEASURES. EROSION CONTROL SHALL BE PLACED PRIOR TO THE COMMENCEMENT OF GRADING AND SITE DISTURBANCE ACTIVITIES UNLESS THE PUBLIC WORKS DEPARTMENT DETERMINES TEMPORARY MEASURES TO BE UNNECESSARY BASED UPON LOCATION, SITE CHARACTERISTICS OR TIME OF YEAR. THE INTENT OF EROSION CONTROL MEASURES SHALL BE TO KEEP ALL GENERATED SEDIMENTS FROM ENTERING A SWALE, DRAINAGE WAY, WATERCOURSE, ATMOSPHERE, OR MIGRATE ONTO ADJACENT PROPERTIES OR ONTO THE PUBLIC RIGHT-OF-WAY.
2. SITE INSPECTIONS AND APPROPRIATE MAINTENANCE OF ALL EROSION CONTROL MEASURES/DEVICES SHALL BE CONDUCTED AND DOCUMENTED AT ALL TIMES DURING CONSTRUCTION IN ACCORDANCE WITH CALIFORNIA GENERAL PERMIT.
3. THE OWNER SHALL BE RESPONSIBLE FOR THE PLACEMENT AND MAINTENANCE OF ALL EROSION CONTROL MEASURES/DEVICES AS SPECIFIED BY THE APPROVED PLAN UNTIL SUCH TIME THAT THE PROJECT IS ACCEPTED AS COMPLETE BY THE PUBLIC WORKS DEPARTMENT OR UNTIL A NOTICE OF TERMINATION HAS BEEN ACCEPTED BY RWQCB. EROSION CONTROL MEASURES/DEVICES MAY BE RELOCATED, DELETED OR ADDITIONAL MEASURES/DEVICES MAY BE REQUIRED DEPENDING ON THE ACTUAL CONDITIONS ENCOUNTERED DURING CONSTRUCTION AT THE DIRECTION OF THE PROJECT QSP. ADDITIONAL EROSION CONTROL MEASURES/DEVICES SHALL BE PLACED AT THE DISCRETION OF THE QSD, QSP, AGENCY INSPECTOR, OR RWQCB.
4. PER THE CALIFORNIA GENERAL PERMIT, THERE IS NO IDENTIFIED RAINY SEASON. EROSION CONTROL MEASURES ARE REQUIRED AT ALL TIMES. REFER TO PROJECT SWPPP FOR BMP DETAILS.
5. IN THE EVENT OF A FAILURE, THE OWNER AND/OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR CLEANUP AND ALL ASSOCIATED COSTS OR DAMAGE. IN THE EVENT THAT DAMAGE OCCURS WITHIN THE RIGHT-OF-WAY AND THE AGENCY IS REQUIRED TO PERFORM CLEANUP, THE OWNER SHALL BE RESPONSIBLE FOR AGENCY REIMBURSEMENT OF ALL ASSOCIATED COSTS OR DAMAGE.
6. IN THE EVENT OF FAILURE AND/OR LACK OF PERFORMANCE BY THE OWNER AND/OR CONTRACTOR TO CORRECT EROSION CONTROL RELATED PROBLEMS THE PUBLIC WORKS DEPARTMENT MAY REVOKE ALL ACTIVE PERMITS.
7. PERMANENT EROSION CONTROL SHALL BE PLACED AND ESTABLISHED WITH 75% COVERAGE ON ALL DISTURBED SURFACES, PRIOR TO FINAL INSPECTION. PERMANENT EROSION CONTROL SHALL BE FULLY ESTABLISHED PRIOR TO FINAL ACCEPTANCE. TEMPORARY EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL PERMANENT MEASURES ARE ESTABLISHED.
8. THE AGENCY MAY HAVE ADDITIONAL PROJECT SPECIFIC EROSION CONTROL REQUIREMENTS. THE CONTRACTOR, DEVELOPER, AND ENGINEER OF WORK SHALL BE RESPONSIBLE FOR MAINTAINING SELF-REGULATION OF THESE REQUIREMENTS.
9. ALL PROJECTS INVOLVING SITE DISTURBANCE OF ONE ACRE OR GREATER SHALL COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA GENERAL PERMIT. THE OWNER SHALL SUBMIT A NOTICE OF INTENT (NOI).
10. NAME OF PERSON TO CONTACT 24 HOURS A DAY IN THE EVENT THERE IS AN EROSION CONTROL/SEDIMENTATION PROBLEM:

NAME: _____

PHONE: _____

BMP SELECTION AND LEGEND

BMP'S SPECIFIED ON THIS PLAN REFERENCE THE NOVEMBER 2009 EDITION OF THE CASQA "CALIFORNIA STORMWATER HANDBOOK". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN BMP DETAILS AVAILABLE AT WWW.CASQA.ORG.

THE FOLLOWING BMPS ARE NOT SHOWN IN SPECIFIC LOCATIONS ON THIS PLAN AND ARE APPLICABLE TO THE PROJECT. THE CONTRACTOR SHALL INCORPORATE THESE BMPS INTO THE PROJECT SCOPE:

EC-1	PROJECT SCHEDULING
EC-2	PRESERVATION OF EXISTING VEGETATION
NS-1	WATER CONSERVATION
NS-3	PAVING AND GRINDING
NS-6	DISCHARGE REPORTING
NS-7	POTABLE WATER / IRRIGATION
NS-8	VEHICLE CLEANING
NS-9	VEHICLE FUELING
NS-10	VEHICLE MAINTENANCE
NS-12	CONCRETE CURING
NS-13	CONCRETE FINISHING
SE-7	STREET SWEEPING
WE-1	WIND EROSION CONTROL

THE FOLLOWING BMPS ARE SPECIFIED ON THIS PLAN:

SE-1	SILT FENCE
SE-5	FIBER ROLLS
TC-1	STABILIZED CONSTRUCTION ENTRANCE/EXIT
WM-8	CONCRETE WASTE (WASH OUT)

THE FOLLOWING BMPS SHALL BE USED IN THE CONTRACTOR STAGING AREA:

WM-1	MATERIAL STORAGE
WM-2	MATERIAL USAGE
WM-3	STOCKPILE MANAGEMENT
WM-4	SPILL PREVENTION KIT
WM-5	SOLID WASTE (TRASH)
WM-6	HAZARDOUS WASTE MANAGEMENT
WM-9	SEPTIC / SANITARY FACILITIES

SCALE: 1" = 50'

50 25 0 50 100

PLAN PREPARED BY:

CIVIL DESIGN STUDIO
CIVIL ENGINEERING | PLANNING | PERMITTING

P.O. Box 199 | Cambria | Ca. 93428
805.706.0401 | www.civil-studio.com

ENGINEER OF RECORD:

PROFESSIONAL ENGINEER ★ REGISTERED ★ STATE OF CALIFORNIA
R. SOTO
No. 58966
CIVIL
PLAN REVIEW SET
NOT FOR CONSTRUCTION

PROJECT NAME:

NACIMIENTO BOAT RAMP

PROJECT LOCATION:

TOWN CREEK ROAD
LAKE NACIMIENTO
APN: 080-111-001

PLANS PREPARED FOR:

PRIVATE PROPERTY OWNERS
LAKE ACCESS ASSOCIATION

REVISIONS:

REVIEWED BY:	MRS
PREPARED BY:	JTI
DATE:	October 15, 2021
SCALE:	AS SHOWN
CDS JOB #:	16-054

EROSION CONTROL PLAN

C700

SHEE 4 OF 5 SHEETS

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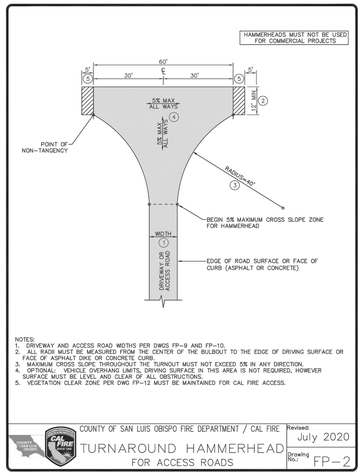
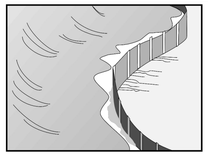


Silt Fence SE-1



Categories

EC	Erosion Control	
SE	Sediment Control	☑
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

Legend:
☑ Primary Category
☒ Secondary Category

Targeted Constituents

Sediment	☑
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

Potential Alternatives

SE-5 Fiber Rolls
SE-6 Gravel Bag Berm
SE-8 Sandbag Barrier
SE-10 Storm Drain Inlet Protection
SE-14 Biofilter Bags

Description and Purpose

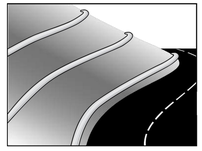
A silt fence is made of a woven geotextile that has been entrenched, attached to supporting poles, and sometimes backed by a plastic or wire mesh for support. The silt fence detains sediment-laden water, promoting sedimentation behind the fence.

Suitable Applications

Silt fences are suitable for perimeter control, placed below areas where sheet flows discharge from the site. They could also be used as interior controls below disturbed areas where runoff may occur in the form of sheet and rill erosion and around inlets within disturbed areas (SE-10). Silt fences are generally ineffective in locations where the flow is concentrated and are only applicable for sheet or overland flows. Silt fences are most effective when used in combination with erosion controls. Suitable applications include:

- Along the perimeter of a project.
- Below the toe or down slope of exposed and erodible slopes.
- Along streams and channels.
- Around temporary spoil areas and stockpiles.
- Around inlets.
- Below other small cleared areas.

Fiber Rolls SE-5



Categories

EC	Erosion Control	☑
SE	Sediment Control	☑
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

Legend:
☑ Primary Category
☒ Secondary Category

Targeted Constituents

Sediment	☑
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

Potential Alternatives

SE-1 Silt Fence
SE-6 Gravel Bag Berm
SE-8 Sandbag Barrier
SE-14 Biofilter Bags

Description and Purpose

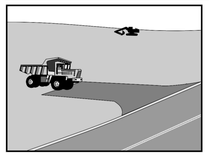
A fiber roll consists of straw, coir, or other biodegradable materials bound into a tight tubular roll wrapped by netting, which can be photodegradable or natural. Additionally, gravel core fiber rolls are available, which contain an imbedded ballast material such as gravel or sand for additional weight when staking the rolls are not feasible (such as use as inlet protection). When fiber rolls are placed at the toe and on the face of slopes along the contours, they intercept runoff, reduce its flow velocity, release the runoff as sheet flow, and provide removal of sediment from the runoff (through sedimentation). By interrupting the length of a slope, fiber rolls can also reduce sheet and rill erosion until vegetation is established.

Suitable Applications

Fiber rolls may be suitable:

- Along the toe, top, face, and at grade breaks of exposed and erodible slopes to shorten slope length and spread runoff as sheet flow.
- At the end of a downward slope where it transitions to a steeper slope.
- Along the perimeter of a project.
- As check dams in unlined ditches with minimal grade.
- Down-slope of exposed soil areas.
- At operational storm drains as a form of inlet protection.

Stabilized Construction Entrance/Exit TC-1



Categories

EC	Erosion Control	☑
SE	Sediment Control	☑
TC	Tracking Control	☑
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

Legend:
☑ Primary Objective
☒ Secondary Objective

Targeted Constituents

Sediment	☑
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

Potential Alternatives

None

Description and Purpose

A stabilized construction access is defined by a point of entrance/exit to a construction site that is stabilized to reduce the tracking of mud and dirt onto public roads by construction vehicles.

Suitable Applications

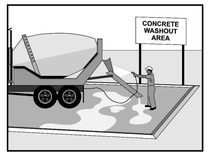
Use at construction sites:

- Where dirt or mud can be tracked onto public roads.
- Adjacent to water bodies.
- Where poor soils are encountered.
- Where dust is a problem during dry weather conditions.

Limitations

- Entrances and exits require periodic top dressing with additional stones.
- This BMP should be used in conjunction with street sweeping on adjacent public right of way.
- Entrances and exits should be constructed on level ground only.
- Stabilized construction entrances are rather expensive to construct and when a wash rack is included, a sediment trap of some kind must also be provided to collect wash water

Concrete Waste Management WM-8



Categories

EC	Erosion Control	
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	☒
WM	Waste Management and Materials Pollution Control	☑

Legend:
☑ Primary Category
☒ Secondary Category

Targeted Constituents

Sediment	☑
Nutrients	
Trash	
Metals	☑
Bacteria	
Oil and Grease	
Organics	

Potential Alternatives

None

Description and Purpose

Prevent the discharge of pollutants to stormwater from concrete waste by conducting washout onsite or offsite in a designated area, and by employee and subcontractor training.

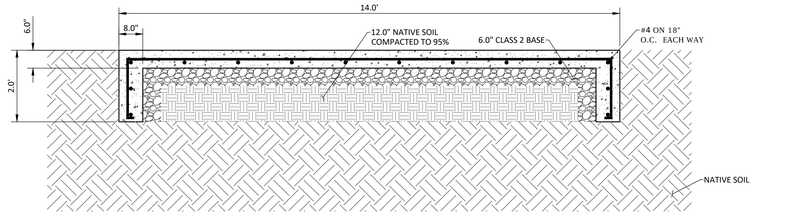
The General Permit incorporates Numeric Effluent Limits (NEL) and Numeric Action Levels (NAL) for pH (see Section 2 of this handbook to determine your project's risk level and if you are subject to these requirements).

Many types of construction materials, including mortar, concrete, stucco, cement and block 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 and raising pH to levels outside the accepted range.

Suitable Applications

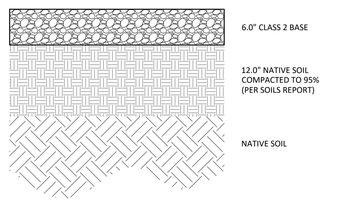
Concrete waste management procedures and practices are implemented on construction projects where:

- Concrete is used as a construction material or where concrete dust and debris result from demolition activities.
- Slurries containing portland cement concrete (PCC) are generated, such as from saw cutting, coring, grinding, grooving, and hydro-concrete demolition.



DETAIL "B1": CONCRETE BOAT RAMP

SCALE: NTS



DETAIL "B2": CLASS 2 BASE SECTION

SCALE: 1" = 1'

NOTE:
DETAILS ON THIS SHEET ARE PROVIDED FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ORIGINAL COPIES OF THE DETAILS FROM EACH APPLICABLE AGENCY.

PLAN PREPARED BY:
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PROFESSIONAL ENGINEER
REGISTERED
PLANS NOT FOR CONSTRUCTION
PRELIMINARY SET

PROJECT NAME: NACIMIENTO BOAT RAMP

PROJECT LOCATION: TOWN CREEK ROAD LAKE NACIMIENTO APN: 080-111-001

PLANS PREPARED FOR: PRIVATE PROPERTY OWNERS LAKE ACCESS ASSOCIATION

REVISIONS:

REVIEWED BY:	MRS
PREPARED BY:	JTI
DATE:	October 15, 2021
SCALE:	AS SHOWN
CDS JOB #:	16-054

DETAIL SHEET

C800

SHEE 5 OF 5 SHEETS

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