

TOWN OF FAIRFAX STAFF REPORT August 3, 2022

TO: Mayor and Town Council

FROM: Heather Abrams, Town Manager

SUBJECT: Adopt Resolution Authorizing Notice Inviting Bids for 378 Scenic Road Storm

Damage Repair, Town Project No. 51-813

RECOMMENDATION

Adopt the attached resolution authorizing notice inviting bids

DISCUSSION

A new reinforced concrete wall will be constructed to repair a small landslide that occurred along a relatively steep cut slope on the inboard (upslope) side of the roadway near 378 Scenic Road. The wall will be up to about 36-feet-long, 8-feet-tall and will be supported on a continuous spread footing. The wall alignment will be configured to provide an eight-foot-wide paved parking space adjacent to the structure. The wall will be backfilled with native soils up to the top of the wall and rip rap will be placed to restore the slope above the wall. The proposed retaining wall and related improvements are shown on the attached project plans.

As there is another similar repair project near 78 Wreden Avenue, staff will consider combining the two projects into a single bid solicitation in order to encourage more competitive bids and streamline construction contract oversight.

FISCAL IMPACT

The engineer's construction cost estimate for this project is \$170,000. Actual project costs are unknown until the contractor bids are opened. Funding for this project was approved in the current (FY2022-23) CIP budget.

ATTACHMENTS

A. Resolution

B. Plans

RESOLUTION 22-

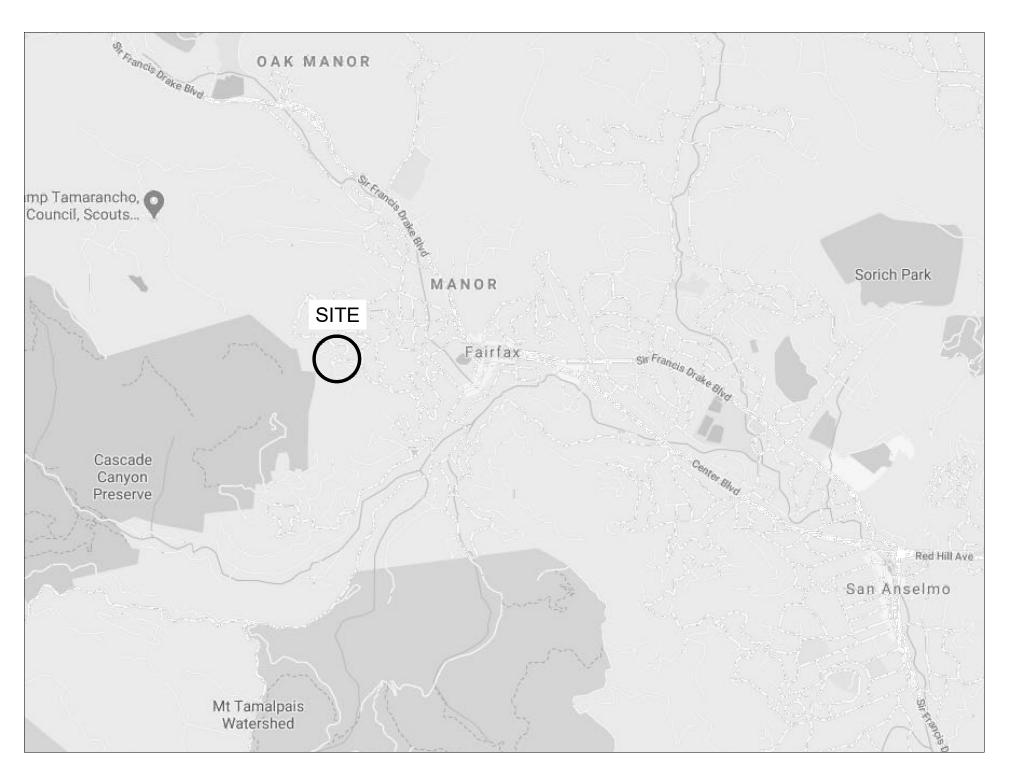
A RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF FAIRFAX AUTHORIZING NOTICE INVITING BIDS FOR CONSTRUCTION OF 378 SCENIC ROAD STORM DAMAGE REPAIR PROJECT

- WHEREAS, an appropriation of \$200,000 for construction of Capital Project No. 51-813, 378 Scenic Road Storm Damage Repair ("the Project"), was approved in the current adopted budget; and
- **WHEREAS**, delivery of the Project utilizing all of the appropriated funds requires that the Town invite formal bids as provided for in the Town Code and under the California Uniform Construction Cost Accounting Act of 1983; and
- WHEREAS, the Project is categorically exempt from the application of the California Environmental Quality Act ("CEQA") under Class 1 inasmuch as it involves the repair of an existing facility.
- NOW, THERFORE, BE IT RESOLVED, that the Fairfax Town Council hereby authorizes issuance of notice inviting construction bids for the Project and authorizes the Town Manager to do everything necessary and proper to complete the bid package and notice the request for bids.

The foregoing Resolution was duly passed and adopted at a regular meeting of the Town Council of the Town of Fairfax, at a regular meeting held on the 3rd day of August 2022, by the following vote, to wit:

AYES: NOES: ABSENT:	
	Stephanie Hellman, Mayor
Attest:	
Michele Gardner, Town Clerk	

TOWN OF FAIRFAX ROADWAY STABILIZATION SCENIC ROAD AT RIDGE ROAD FAIRFAX, CA



SITE LOCATION MAP

ABBREVIATIONS & SYMBOLS

APPROX APPROXIMATELY

BOTTOM OF WALL ELEVATION

EXISTING

FEET

LINEAR FEET

NEW

STD DET CALTRANS STANDARD DETAIL

TOP OF WALL ELEVATION

MARIN CO. UNIFORM CONSTRUCTION STANDARDS

APPROX BORING LOCATION BY MILLER PACIFIC, 2019

INDEX OF SHEETS SHEET NO. SHEET TITLE TITLE SHEET & NOTES 1 SITE PLAN - EXISTING CONDITIONS 2 RETAINING WALL PLAN & DETAILS 3 BORING LOGS

EROSION & SEDIMENT CONTROL

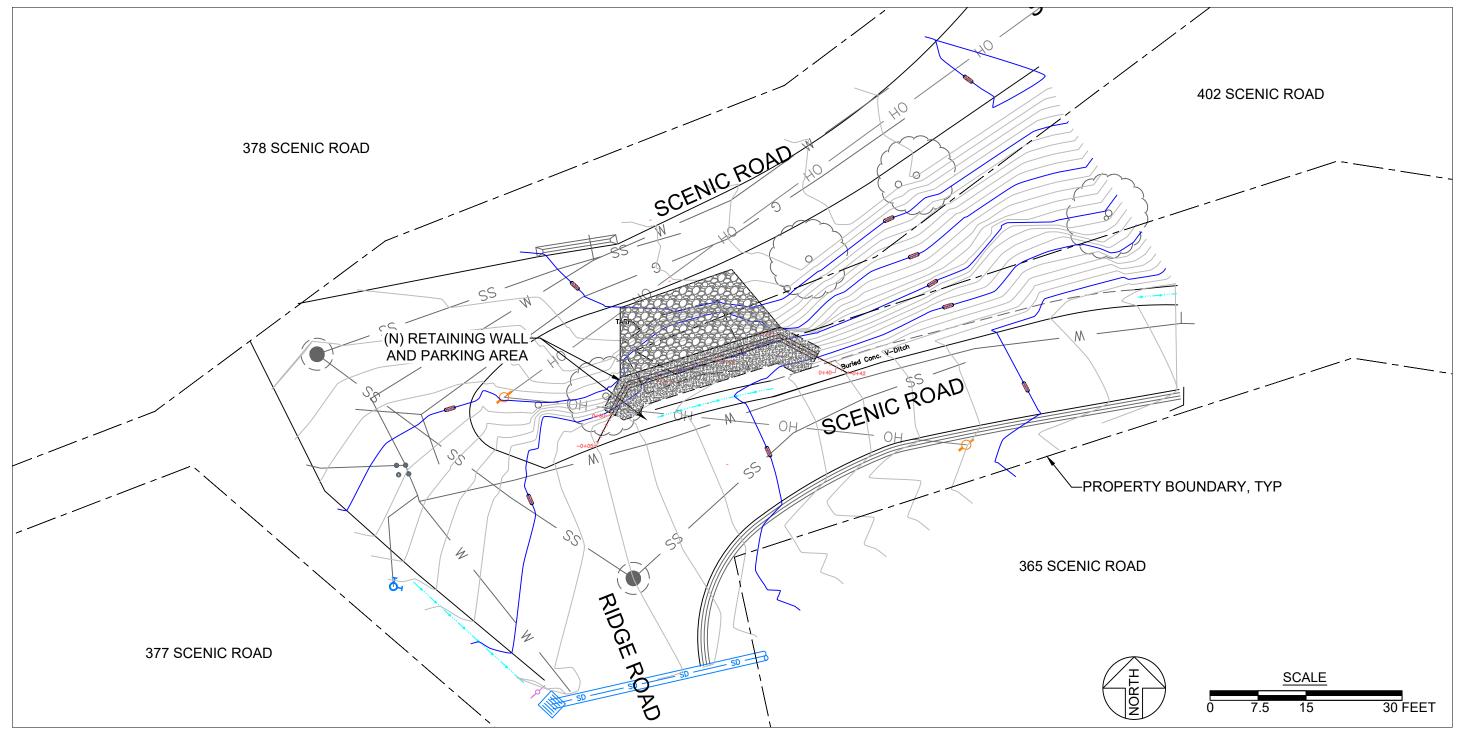
- 1. ALL CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR. ANY DISCREPANCIES THAT REQUIRE CLARIFICATION OR REVISIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE STARTING WORK.
- 2. THE CONTRACTOR SHALL POSSES A CLASS "A" LICENSE.
- 3. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES,

4. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT PRIOR TO START OF ANY

- CONSTRUCTION. CONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY COMPANIES A MINIMUM OF 48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING UTILITIES IN THE FIELD. ANY UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- 6. TOWN OF FAIRFAX ENCROACHMENT PERMIT IS REQUIRED FOR ALL WORK, INCLUDING STAGING OF MATERIALS AND EQUIPMENT IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN ENCROACHMENT PERMIT IN ACCORDANCE WITH THE PERMIT REQUIREMENTS.
- 7. THE CONTRACTOR SHALL HAUL AWAY ALL UNUSED/EXCESS EXCAVATED MATERIAL OFF SITE FOR LEGAL DISPOSAL.
- 8. NO CONSTRUCTION MATERIALS, EQUIPMENT, DEBRIS OR WASTE SHALL BE PLACED OR STORED WHERE IT MAY BE SUBJECT TO WIND OR RAIN EROSION AND DISPERSION.
- 9. WORKMANSHIP TO BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS ALONG WITH 2018 CALTRANS STANDARD SPECIFICATIONS, MARIN COUNTY AND CITY OF SAUSALITO STANDARDS AND GENERALLY ACCEPTED CONSTRUCTION PRACTICES.

SURVEY NOTES

- 1. TOPOGRAPHY BASED ON A FIELD SURVEY PERFORMED BY WILLIS SURVEYING IN XXX, 2017. CONTOURS ARE SHOWN EVERY TWO VERTICAL FEET.
- 2. VERTICAL DATUM: XXXXX (TO BE UPDATED BASED ON INFO PROVIDED BY WILLIS LAND
- 3. HORIZONTAL DATUM: XXXXX (TO BE UPDATED BASED ON INFO PROVIDED BY WILLIS LANDSURVE).



- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 301: SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS. ALL STRUCTURAL CONCRETE SHALL COMPLY WITH THE PROVISIONS OF ACI 318-14.
- 2. ALL CONCRETE SHALL BE NORMAL WEIGHT AND READY-MIXED WITH A MAXIMUM WATER TO CEMENT RATIO 0.45 AND A MAXIMUM MEASURED SLUMP OF 4 INCHES.
- 3. ALL AGGREGATE SHALL CONCORM TO ASTM C33.
- 4. ALL WATER SHALL BE CLEAN, POTABLE AND NOT DETRIMENTAL TO THE CONCRETE.
- 5. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.

REINFORCING STEEL:

- 1. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GR 60
- 2. CONCRETE COVER SHALL BE A MINIMUM OF 3 INCHES
- REINFORCING STEEL BENDS, DEVELOPMENT LENGTHS, SPLICES AND HOOKS SHALL BE IN ACCORDANCE AS SHOWN BELOW:

COLD JOINT

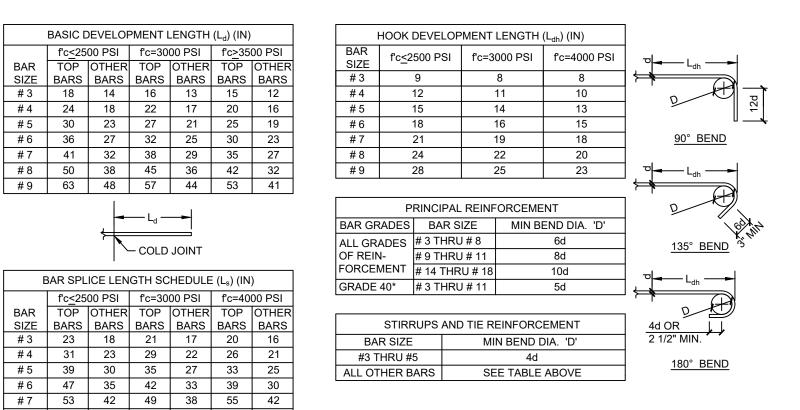
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 #9
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EROSION AND SEDIMENT CONTROL MEASURES SHALL COMPLY WITH ALL REQUIREMENTS OUTLINED IN THE MARIN COUNTY

- STORMWATER POLLUTION PREVENTION PROGRAM (MCSTOPPP) PROJECTS AS OUTLINED IN THE MCSTOPPP CONSTRUCTION EROSION AND SEDIMENT CONTROL PLAN APPLICANT PACKAGE.
- . ANY AREAS IN WHICH GROUND SURFACE AND VEGETATIVE COVER HAS BEEN DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE COVERED WITH A PRE-APPROVED SEED MIX AND BIODEGRADABLE EROSION CONTROL MATS UPON COMPLETION OF CONSTRUCTION.
- 3. EROSION CONTROL MATS SHALL CONSIST OF NORTH AMERICAN GREEN S150 OR APPROVED EQUAL.
- 4. STRAW WATTLES SHALL CONSIST OF NORTH AMERICAN GREEN SEDIMAX - SWB9 OR APPROVED EQUAL.

- RIP RAP SHALL CONFORM TO CLASS 2 ROCK SLOPE PROTECTION IN ACCORDANCE WITH SECTION 72 OF THE 2018 CALTRANS STANDARD SPECIFICATIONS.
- 2. FABRIC SHALL CONSIST OF MIRAFI 180N OR APPROVED EQUAL



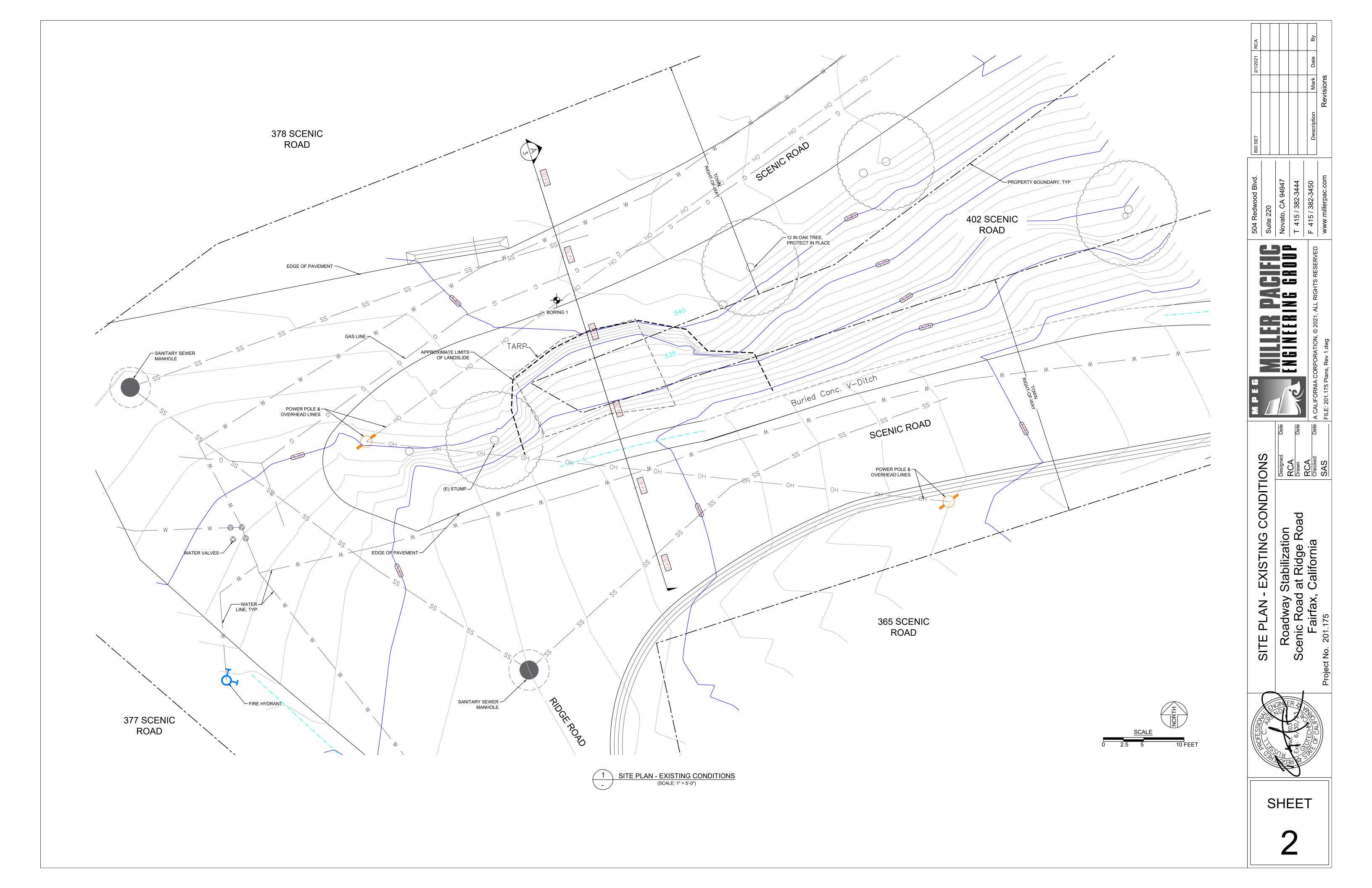
- 1. SPECIAL INSPECTIONS SHALL BE COMPLETED IN CONFORMANCE WITH SECTION 1704 & 1705 OF THE 2019 CALIFORNIA BUILDING CODE AND THE APPROVED SPECIAL INSPECTION AGREEMENT. DEPARTMENT.
- 2. THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTION AGENCY A MINIMUM OF 48 HOURS PRIOR TO ANY REQUESTED SPECIAL INSPECTIONS.
- 3. AT A MINIMUM, THE FOLLOWING WORK SHALL BE SUBJECT TO SPECIAL INSPECTION BY AN APPROVED AGENCY EMPLOYED BY
- 3.1 FOUNDATION EXCAVATION: OBSERVATION BY PROJECT GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF
- 3.2 <u>REINFORCEMENT</u>: OBSERVATION PRIOR TO CONCRETE PLACEMENT
- 3.3 CONCRETE: OBSERVATION DURING PLACEMENT. AS REQUESTED BY ENGINEER. CONCRETE SHALL BE SAMPLED. SLUMP SHALL BE MEASURED AND CYLINDERS SHALL BE CAST FOR STRENGTH TESTING IN CONFORMANCE WITH ASTM C39. A MINIMUM OF 1 CYLINDER SHALL BE TESTED AT 3 DAYS AND A MINIMUM OF 3 CYLINDERS SHALL BE TESTED AT 28 DAYS.
- 3.4 WALL DRAINAGE: OBSERVATION OF DRAINAGE PIPE AND MATERIALS PRIOR TO BACKFILL.
- 3.5 <u>WALL BACKFILL</u>: OBSERVATION AND FIELD DENSITY TESTING OF BACKFILL MATERIALS DURING PLACEMENT AND COMPACTION
- 3.6 PAVEMENT: OBSERVATION AND FIELD DENSITY TESTING OF SUBGRADE, AGGREGATE BASE AND ASPHALT FOR NEW PAVEMENT SECTION

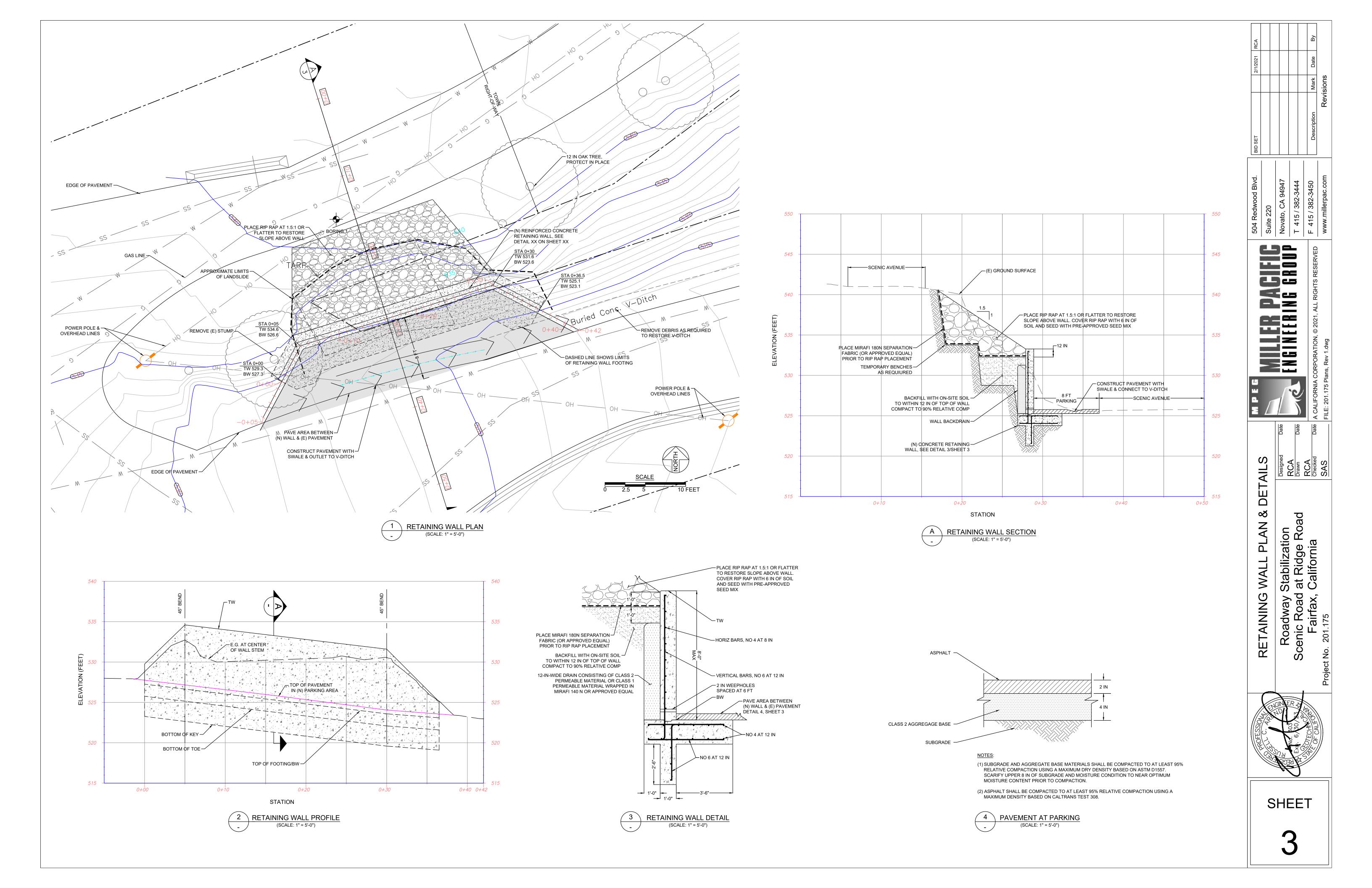
504 Redwood Blvd. BID SET 2/1/2021 RCA	Suite 220	Novato, CA 94947	UNUU T 415 / 382-3444	F 415 / 382-3450 Description Mark Date By	www millernac com
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5 4 4				Date A CALIFORNIA CORPORATION, © 2021, ALL RIGHTS RESERVED	

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Stabilizatior at Ridge Ro California

SHEET





MAJOR DIVISIONS SYMBO			/BOL		DESCRIPTION				
	,	20-80-678-80		Well-graded gravels or gravel-sand mixtures, little or no fines					
SOILS	CLEAN GRAVEL	GP		Poorly-graded gr	ravels or gravel-sand mixtures, little or no fines				
	GRAVEL	GM		Silty gravels, gravel-sand-silt mixtures					
GRAINED sand and	with fines	GC		Clayey gravels, ç	Clayey gravels, gravel-sand-clay mixtures				
COARSE GRAINED over 50% sand and	CLEAN SAND	SW		Well-graded san	nds or gravelly sands, little or no fines				
COARSE over 50%		SP	HEDIOLETT	Poorly-graded sa	ands or gravelly sands, little or no fines				
S §	SAND with fines	SM		Silty sands, sand	I-silt mixtures				
		sc ;		Clayey sands, sand-clay mixtures					
ILS lay	SILT AND CLAY	ML		with slight plastic	•				
GRAINED SOILS 50% silt and clay	liquid limit <50%	CL		Inorganic clays of low to medium plasticity, gravely clays, sandy clays lean clays					
AINE		OL		Organic silts and	organic silt-clays of low plasticity				
GR/ 50%	SILT AND CLAY	МН		Inorganic silts, m	nicaceous or diatomaceous fine sands or silts, elastic silts				
FINE	liquid limit >50%	CH	i	Inorganic clays of high plasticity, fat clays					
		ОН	OH Organic clays of medium to high plasticity						
HIGHL	Y ORGANIC SOILS	PT	******	Peat, muck, and	other highly organic soils				
ROCK				Undifferentiated	as to type or composition				
		KEY T	O BOR	ING AND	TEST PIT SYMBOLS				
CLA	SSIFICATION TESTS				STRENGTH TESTS				
PI	PLASTICITY INDEX				TV FIELD TORVANE (UNDRAINED SHEAR)				
LL	LIQUID LIMIT				UC LABORATORY UNCONFINED COMPRESSION				
SA HYD	SIEVE ANALYSIS	VOIC			TXCU CONSOLIDATED UNDRAINED TRIAXIAL				
P200			IE\/E		TXUU UNCONSOLIDATED UNDRAINED TRIAXIAL UC, CU, UU = 1/2 Deviator Stress				
P4	PERCENT PASSING								
		NO. 4 OIL	v L		SAMPLER DRIVING RESISTANCE				
_	SAMPLER TYPE MODIFIED CALIFORNIA			ND SAMPLER	Modified California and Standard Penetration Test samplers are driven 18 inches with a 140-pound hammer falling 30 inches per blow. Blows for the initial 6-inch drive seat the sampler. Blows for the light 12 inch drive are recorded ento the logs. Sampler				
7	STANDARD PENETRATION 1	TEST	₩ RO	CK CORE	for the final 12-inch drive are recorded onto the logs. Sampler refusal is defined as 50 blows during a 6-inch drive. Examples blow records are as follows:				
	THIN WALLED / FIVES SIGTO	NI.	V 5:3	TUDDED OD	25 sampler driven 12 inches with 25 blows after initial 6-inch drive				
	THIN-WALLED / FIXED PISTO		BU	STURBED OR LK SAMPLE	85/7" sampler driven 7 inches with 85 blows after initial 6-inch drive				
NOTE:	Test boring and test pit logs are at the excavation location durin soil or water conditions may va and with the passage of time. I descriptions are approximate a	ng the time o ry in differen Boundaries	of exploration nt locations w between diffe	Subsurface rock, within the project site ering soil or rock	50/3" sampler driven 3 inches with 50 blows during initial 6-inch drive or beginning of final 12-inch drive				
M P E G	MILLED DACI	TIM -	504 Redwood Suite 220	Blvd.	SOIL CLASSIFICATION CHART				
	ENCINEEDING OF	IIUI —	Novato, CA 94	947	Roadway Stabilization				
Jet.	EUPINEERING PR	UU	T 415 / 382-34		378 Scenic Road				
A CALIFORNIA	CORPORATION, © 2019, ALL RIGHTS RES	SERVED	F 415 / 382-34	150	Fairfax, California				
FILENAME: 201.			www.millerpac	.com Project No	I II EIGHDE				

o meters DEPTH	SAMPLE	SYMBOL (4)	BORING EQUIPMENT: Track-mounted I with 3.0-inch Sol 03/21/19 ELEVATION: 540 - feet* *REFERENCE: Google Earth, 20 5.0" Asphalt Concrete	Hydraulic Drill Rig id Flight Auger	BLOWS / FOOT (1)	DRY UNIT WEIGHT pcf (2)	MOISTURE CONTENT (%)	SHEAR STRENGTH psf (3)	OTHER TEST DATA	OTHER TEST DATA
-	I		Clayey Sand orange to buff-gray, moist, loos includes abundant sandstone a		6	100	19.4	475		
- 1 - 5-					20	107	18.9			
- 2			Sandstone and Shale Medium orange to buff-gray, fin interbedded with medium-to-da moderate hardness, friable to w weathering with sandstone hav oxide staining	rk gray shale. Low to reak, high to complete	84/11"	125	8.1			
-3 ₁₀ -			Same as above		100/8.5"		7.7			
- 15- - -5 -			Shale Medium-dark gray, moderate ha moderate strength, moderate to		80/11"		10.5			
I -	er leve		countered during drilling NOTE asured after drilling	S: (1) UNCORRECTED FIELD (2) METRIC EQUIVALENT I (3) METRIC EQUIVALENT I (4) GRAPHIC SYMBOLS AF	DRY UNIT W STRENGTH	VEIGHT kN (kPa) = 0.0)479 x STR	71 x DRY U ENGTH (ps	NIT WEIGI	HT (pcf)
A CALIFORNIA	EN		504 Redwood Blvd. Suite 220 Novato, CA 94947 T 415 / 382-3444 F 415 / 382-3450 www.millerpac.com	Roadway Sta 378 Sceni Fairfax, Ca	abilizatio c Road alifornia	NG LC	Drawn E	EIC	A-	-3 JRE

www.millerpac.com Project No. 201.175

FRACTURING AND BEDDING Fracture Classification Bedding Classification Crushed less than 3/4 inch Laminated Intensely fractured 3/4 to 2-1/2 inches Very thinly bedded Closely fractured 2-1/2 to 8 inches Thinly bedded Moderately fractured 8 to 24 inches Medium bedded Widely fractured 2 to 6 feet Thickly bedded Very widely fractured greater than 6 feet Very thickly bedded **HARDNESS** Carved or gouged with a knife Moderate Easily scratched with a knife, friable Hard Difficult to scratch, knife scratch leaves dust trace Very hard Rock scratches metal STRENGTH Friable Crumbles by rubbing with fingers Weak Crumbles under light hammer blows Indentations <1/8 inch with moderate blow with pick end of rock hammer Moderate Withstands few heavy hammer blows, yields large fragments Strong Very strong Withstands many heavy hammer blows, yields dust, small fragments WEATHERING Complete Minerals decomposed to soil, but fabric and structure preserved Rock decomposition, thorough discoloration, all fractures are extensively coated with clay, oxides or carbonates Moderate Fracture surfaces coated with weathering minerals, moderate or localized discoloration A few stained fractures, slight discoloration, no mineral decomposition, no affect on cementation Rock unaffected by weathering, no change with depth, rings under hammer impact NOTE: Test boring and test pit logs are an interpretation of conditions encountered at the location and time of exploration. Subsurface rock, soil and water conditions may differ in other locations and with the passage of time.

ROCK CLASSIFICATION CHART

FIGURE

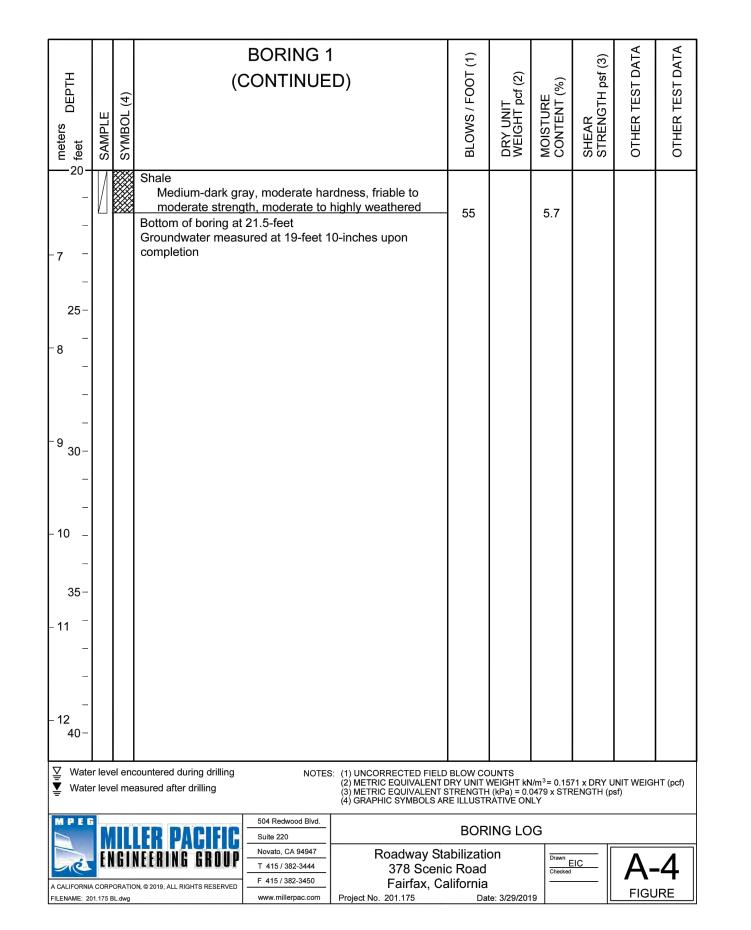
Roadway Stabilization 378 Scenic Road

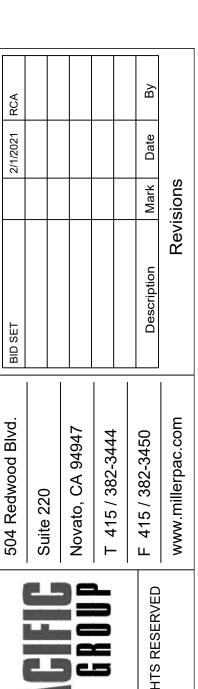
Fairfax, California

MILLER PACIFIC
Suite 220
Novato, CA 94947
T 415 / 382-3444

F 415 / 382-3450

www.millerpac.com Project No. 201.175



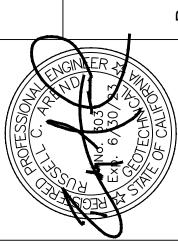




Besigned Date CALIFICA Date Checked Date A CALIFICA Checked Date

BORING LOGS

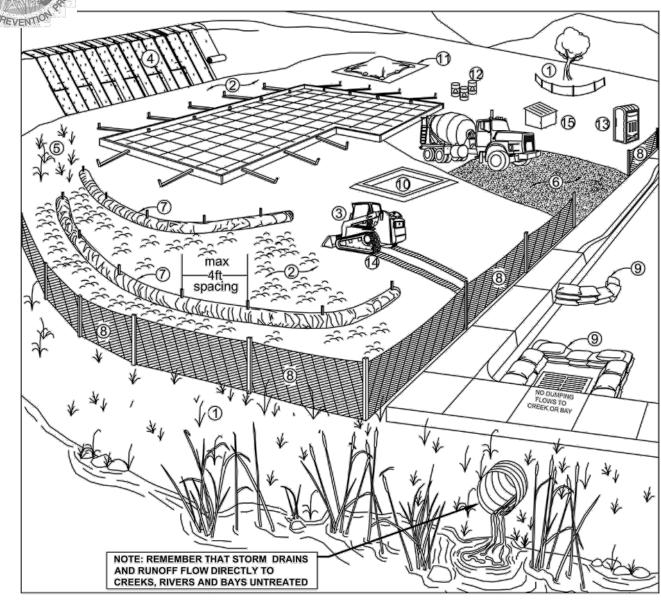
Roadway Stabilization Scenic Road at Ridge Road Fairfax, California



SHEET

4

Marin County Stormwater Pollution Prevention Program Minimum Control Measures For Small Construction Projects



	Erosion Controls		Sediment Controls		Good Housekeeping
NS	Scheduling	6.	Tracking Controls	10.	Concrete Washout
1.	Preserve Vegetation & Creek Set Backs	7.	Fiber Rolls	11.	Stockpile Management
2.	Soil Cover	8.	Silt Fence	12.	Hazardous Material Management
3.	Soil Preparation/ Roughening	9.	Drain Inlet Protection	13.	Sanitary Waste Management
4.	Erosion Control Blankets	NS	Trench Dewatering	14.	Equipment and Vehicle Maintenance
5.	Revegetation		-	15.	Litter and Waste Management

5. Revegetation

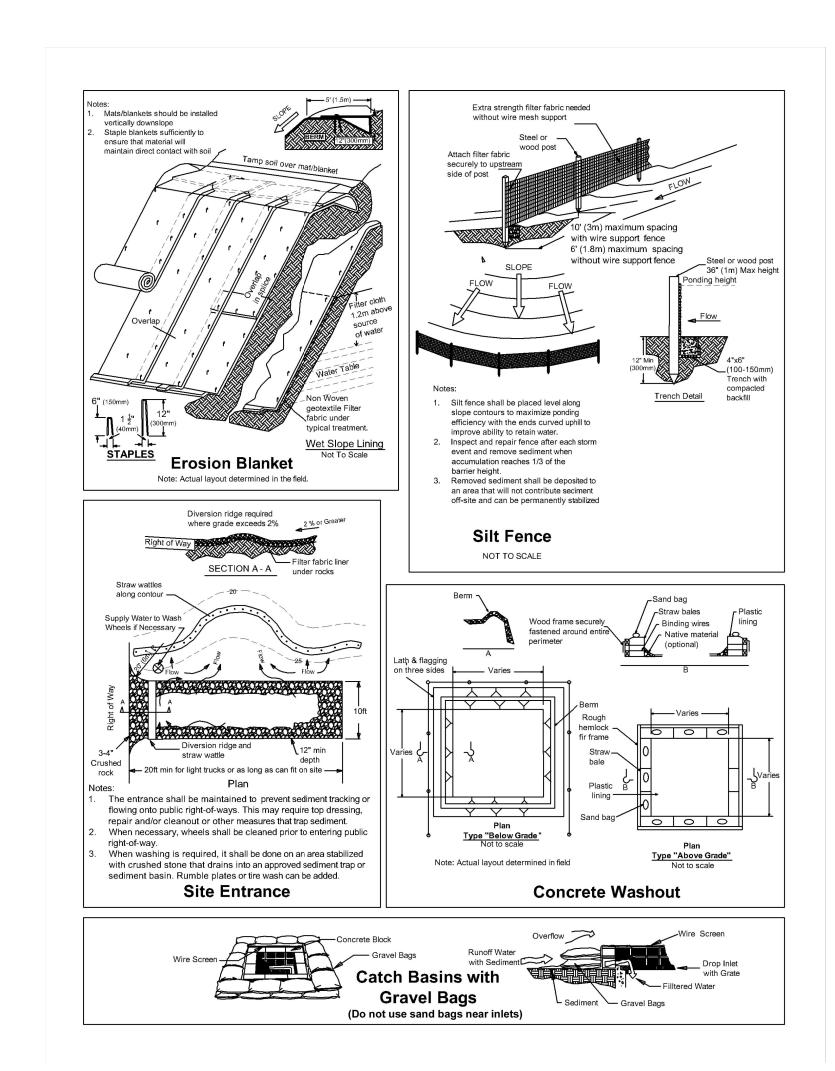
NS=not shown on graphic

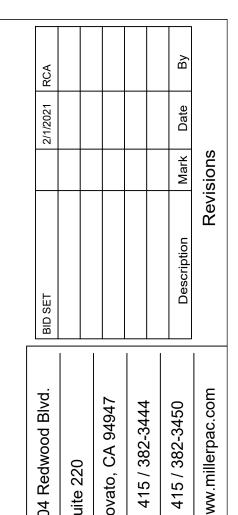
Note: Select an effective combination of control measures from each category, Erosion Control, Sediment Control, and Good Housekeeping. Control measures shall be continually implemented and maintained throughout the project until activities are complete, disturbed areas are stabilized with permanent erosion controls, and the local agency has signed off on permits that may have been required for the project. Inspect and maintain the control measures before and after rain events, and as required by the local agency or state permit.

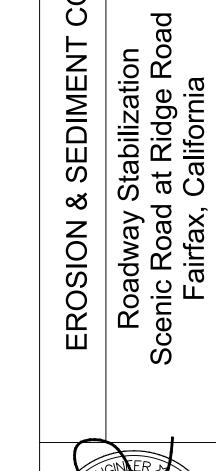
More detailed information on the BMPs can be found in the related California Stormwater Quality Association (CASQA) and California Department of Transportation (Caltrans) BMP Factsheets. CASQA factsheets are available by subscription in the California Best Management Practices Handbook Portal: Construction at http://www.casqa.org. Caltrans factsheets are available in the Construction Site BMP Manual March 2003 at http://www.dot.ca.gov/hq/construc/stormwater/manuals.htm. Visit www.mcstoppp.org for more information on construction site management and Erosion and Sediment Control Plans.

If you require materials in alternative formats, please contact: 415-473-4381 voice/TTY or disabilityaccess@co.marin.ca.us

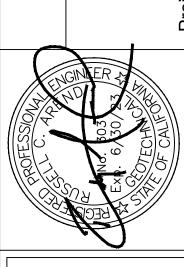
	trol Measure	General Description
		anagement Practices
N/A	Scheduling	Plan the project and develop a schedule showing each phase of construction. Schedule construction activitie to reduce erosion potential, such as scheduling ground disturbing activities during the summer and phasing projects to minimize the amount of area disturbed. For more info see the following factsheets: CASQA: EC-1 or Caltrans: SS-1.
1	Preserve Existing Vegetation and Creek Setbacks	Preserve existing vegetation to the extent possible, especially along creek buffers. Show creek buffers on maps and identify areas to be preserved in the field with temporary fencing. Check with the local Planning ar Public Works Departments for specific creek set back requirements. For more info see the following factsheets: CASQA: EC-2; or Caltrans: SS-2.
2	Soil Cover	Cover exposed soil with straw mulch and tackifier (or equivalent). For more info see the following factsheets. CASQA: EC-3, EC-5, EC-6, EC-7, EC-8, EC-14, EC-16; or Caltrans: SS-2, SS-4, SS-5, SS-6, SS-7, SS-8.
3	Soil Preparation/ Roughening	Soil preparation is essential to vegetation establishment and BMP installation. It includes soil testing and amendments to promote vegetation growth as well as roughening surface soils by mechanical methods (decompacting, scarifying, stair stepping, etc.). For more info see the following factsheets: CASQA: EC-15.
4	Erosion Control Blankets	Install erosion control blankets (or equivalent) on disturbed sites with 3:1 slopes or steeper. Use wildlife-friendly blankets made of biodegradable natural materials. Avoid using blankets made with plastic netting or fixed aperture netting. See: http://www.coastal.ca.gov/nps/Wildlife-Friendly Products.pdf . For more info see the following factsheets: CASQA: EC-7; or Caltrans: SS-7.
5	Revegetation	Re-vegetate areas of disturbed soil or vegetation as soon as practical. For more info see the following factsheets: CASQA: EC-4; or Caltrans: SS-4.
Sedi	ment Control Best	Management Practices
6	Tracking Controls	Stabilize site entrance to prevent tracking soil offsite. Inspect streets daily and sweep street as needed. Require vehicles and workers to use stabilized entrance. Place crushed rock 12-inches deep over a geotextile, using angular rock between 4 and 6-in. Make the entrance as long as can be accommodated on the site, ideally long enough for 2 revolutions of the maximum tire size (16-20 feet long for most light trucks). Make the entrance wide enough to accommodate the largest vehicle that will access the site, ideally 10 feet wide with sufficient radii for turning in and out of the site. Rumble pads or rumble racks can be used in lieu of or in conjunction with rock entrances. Wheel washes may be needed where space is limited or where the site entrance and sweeping is not effective. For more info see the following factsheets: CASQA: TC-1; TC-3; or Caltrans: TC-1; TC-3.
7	Fiber Rolls	Use fiber rolls as a perimeter control measure, along contours of slopes, and around soil stockpiles. On slopes space rolls 10 to 20 feet apart (using closer spacing on steeper slopes). Install parallel to contour. If more than one roll is used in a row overlap roll do not abut. J-hook end of roll upslope. Install rolls per either Type 1 (stake rolls into shallow trenches) or Type 2 (stake in front and behind roll and lash with rope). Use wildlife-friendly fiber rolls made of biodegradable natural materials. Avoid using fiber rolls made with plastic netting or fixed aperture netting. See: http://www.coastal.ca.gov/nps/Wildlife-Friendly_Products.pdf . Manufactured linear sediment control or compost socks can be used in lieu of fiber rolls. For more info see the following factsheets: CASQA: SE-5 (Type 1); SE-12, SE-13; or Caltrans: SC-5 (Type 1 and Type 2).
8	Silt Fence	Use silt fence as a perimeter control measure, and around soil stockpiles. Install silt fence along contours. Key silt fence into the soil and stake. Do not use silt fence for concentrated water flows. Install fence at least feet back from the slope to allow for sediment storage. Wire backed fence can be used for extra strength. Avoid installing silt fence on slopes because they are hard to maintain. Manufactured linear sediment control can be used in lieu of silt fences. For more info see the following factsheets: CASQA: SE-1; SE-12; or Caltrans: SC-1.
9	Drain Inlet Protection	Use gravel bags, (or similar product) around drain inlets located both onsite and in gutter as a last line of defense. Bags should be made of a woven fabric resistant to photo-degradation filled with 0.5-1-in washed crushed rock. Do not use sand bags or silt fence fabric for drain inlet protection. For more info see the following factsheets: CASQA: SE-10; or. Caltrans: SC-10.
N/A	Trench Dewatering	Follow MCSTOPPP BMPs for trench dewatering. http://www.marincounty.org/depts/pw/divisions/mcstoppp/development/wedia/Files/Departments/PW/mcstoppp/development/TrenchingSWReqMCSTOPPPFinal6_09.pdf. For more info see the following factsheets: CASQA: NS-2; or Caltrans: NS-2.
Goo	d Housekeeping Be	est Management Practices
10	Concrete Washout	Construct a lined concrete washout site away from storm drains, waterbodies, or other drainages. Ideally, place adjacent to stabilized entrance. Clean as needed and remove at end of project. For more info see the following factsheets: CASQA: WM-8; or .Caltrans: WM-8.
11	Stockpile Management	Cover all stockpiles and landscape material and berm properly with fiber rolls or sand bags. Keep behind the site perimeter control and away from waterbodies. For more info see the following factsheets: CASQA: WM-or Caltrans: WM-3.
12	Hazardous Material Management	Hazardous materials must be kept in closed containers that are covered and within secondary containment; do not place containers directly on soil. For more info see the following factsheets: CASQA: WM-6; or Caltrans: WM-6.
13	Sanitary Waste Management	Place portable toilets near stabilized site entrance, behind the curb and away from gutters, storm drain inlets and waterbodies. Tie or stake portable toilets to prevent tipping and equip units with overflow pan/tray (most vendors provide these). For more info see the following factsheets: CASQA: WM-9; or Caltrans: WM-9.
14	Equipment and Vehicle Maintenance	Prevent equipment fluid leaks onto ground by placing drip pans or plastic tarps under equipment. Immediatel clean up any spills or drips. For more info see the following factsheets: CASQA: NS-8, NS-9, and NS-10; or Caltrans: NS-8, NS-9, and NS-10.
15	Litter and Waste Management	Designate waste collection areas on site. Use watertight dumpsters and trash cans; inspect for leaks. Cover at the end of each work day and when it is raining or windy. Arrange for regular waste collection. Pick up site litter daily. For more info see the following factsheets: CASQA: WM-5; or Caltrans: WM-5.







CONT



SHEET

5