VICINITY MAP

SPENCER AVE
ATWOOD AVE
BUCKLEY AVE
BRIDGEWAY
JOSEPHINE ST
NORTH ST
RICHARDSON ST
2ND ST
101
Sausalito
San Francisco Bay
Site

SITE PLAN (main drawing)

APN 065-211-08
APN 065-211-06
S 81°22'07" E 169.82 R1

6 JOSEPHINE STREET
APN 065-211-07

House
Stone Wall
Stairs

(E) RETAINING WALL
APPROX LOCATION OF (N) SOLDIER PILE WALL (NOTE 5)
REMOVE (E) STACKED WOOD WALL & REGRADE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS

TP2
TP
220ak
Wood Wall

APPROX LIMITS OF LANDSLIDE SCARP ABOVE STAIRS

CUT STUMP FLUSH WITH GROUND SURFACE

(E) RESIDENCE

N 89°00'00" W 171.41 R1

APPROX LIMITS OF EXCAVATION TO REMOVE DEBRIS & TO LAYBACK OVERSTEEPENED AREAS (NOTE 6)

PROPERTY BOUNDARY
FORMER WOOD WALL, (NOTE 5)
REMOVE (E) STACKED WOOD WALL & REGRADE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS

Post
LIGHT POSTS PROTECT IN PLACE

Bridgeway

NEW RAILING BY OTHERS
K-Rail

INSTALL TEMP FIBER ROLL PER CALTRANS STD T56
INSTALL TEMP SILT FENCE PER CALTRANS STD T61

STAIRS EAST OF LANDING SUPPORTED BY (E) CONC RETAINING WALL
SLOPE BELOW STAIRS WEST OF LANDING
APPROX TOE OF SLOPE

STREET LIGHT
SL

180ak

REMOVE (E) STACKED WOOD WALL & REGRADE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS

LIGHT POST, PROTECT IN PLACE
NORTH STREET STEPS

LIGHT POST PROTECT IN PLACE
INSTALL TEMP FIBER ROLL PER CALTRANS STD T56
INSTALL TEMP SILT FENCE PER CALTRANS STD T61

APPROX LIMITS OF DEBRIS DEPOSITED ON STAIRS & SLOPE BELOW STAIRS. REMOVE DEBRIS, HYDROSEED FINISHED SURFACE AND COVER WITH EROSION CONTROL MATS (NOTE 6). PROTECT (E) PARK FEATURES

LP
North Street
(50 FEET WIDE)

REMOVE K-RAIL & RETURN TO CITY CORP YARD

NOTES:

1. TOPOGRAPHIC INFORMATION SHOWN HERE IS BASED UPON A FIELD SURVEY PERFORMED BY 1031SURVEY, INC. IN JUNE 2019 USING TERRESTRIAL LIDAR.

2. VERTICAL DATUM: CITY OF SAUSALITO BENCHMARK RM11, LOCATED ON THE WEST SIDE OF BRIDGEWAY WHERE BRIDGEWAY TURNS WESTERLY AND BECOMES RICHARDSON STREET, ONE FOOT SOUTHERLY OF THE STREET LIGHT, ELEVATION=9.84, NGVD29 DATUM. ADD 2.73 TO ACHIEVE NAVD88 DATUM (VERTCON).

3. BOUNDARY IS BASED UPON THAT CERTAIN RECORD OF SURVEY FILED IN BOOK 2012 OF MAPS, AT PAGE 37, MARIN COUNTY RECORDS.

4. BOUNDARY INFORMATION SHOWN IS BASED UPON FIELD TIES AND RECORD INFORMATION. IT IS NOT THE INTENT OF THIS MAP TO PROVIDE A BOUNDARY RESOLUTION FOR THE SUBJECT PROPERTY. SAID RESOLUTION MAY REQUIRE A RECORD OF SURVEY UNDER STATE LAW. BOUNDARY INFORMATION SHOWN IS BASED UPON A PREVIOUSLY RECORDED MAP ON FILE IN THE PUBLIC RECORDS.

5. THE WOOD WALLS NOTED HEREIN WERE REMOVED AFTER THE FIELD SURVEY WAS COMPLETED. THESE WALLS WERE REPLACED WITH A NEW SOLDIER PILE AND WOOD LAGGING RETAINING WALL AT THE APPROXIMATE ALIGNMENT SHOWN.

6. LIMITS OF EXCAVATION FOR SLOPE TRIMMING AND DEBRIS REMOVAL AND PLACEMENT OF EROSION CONTROL MATS, STRAW WATTLES, SILT FENCING AND HYDROSEEDING SHOWN HEREIN ARE APPROXIMATE. ACTUAL LIMITS SHALL BE DETERMINED IN THE FIELD AND APPROVED BY THE GEOTECHNICAL ENGINEER. REMOVE AS MUCH ACACIA AS POSSIBLE INCLUDING THE ROOT SYSTEM.

7. EROSION AND SEDIMENT CONTROL MEASURES SHALL COMPLY WITH ALL REQUIREMENTS OUTLINED IN THE MARIN COUNTY STORMWATER POLLUTION PREVENTION PROGRAM (MCSTOPPP) MINIMUM CONTROL MEASURES FOR SMALL CONSTRUCTION PROJECTS AS OUTLINED IN THE MCSTOPP CONSTRUCTION EROSION AND SEDIMENT CONTROL PLAN APPLICANT PACKAGE.

8. TRIMMED/EXPOSED SLOPES TO BE HYDROSEEDED PER THE PLANS AND SPECIFICATIONS. EROSION CONTROL MATS SHALL CONSIST OF ERONET SC150 BY NORTH AMERICAN GREEN OR APPROVED EQUAL.
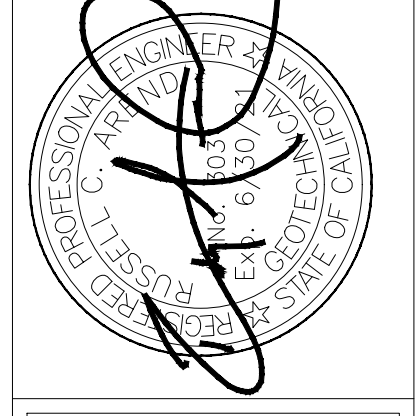
	Designed	RCA	Date
	Drawn	RCA	Date
	Checked	RCA	Date
	Checked	SAS	Date

BID SET 4/7/21

Revisions

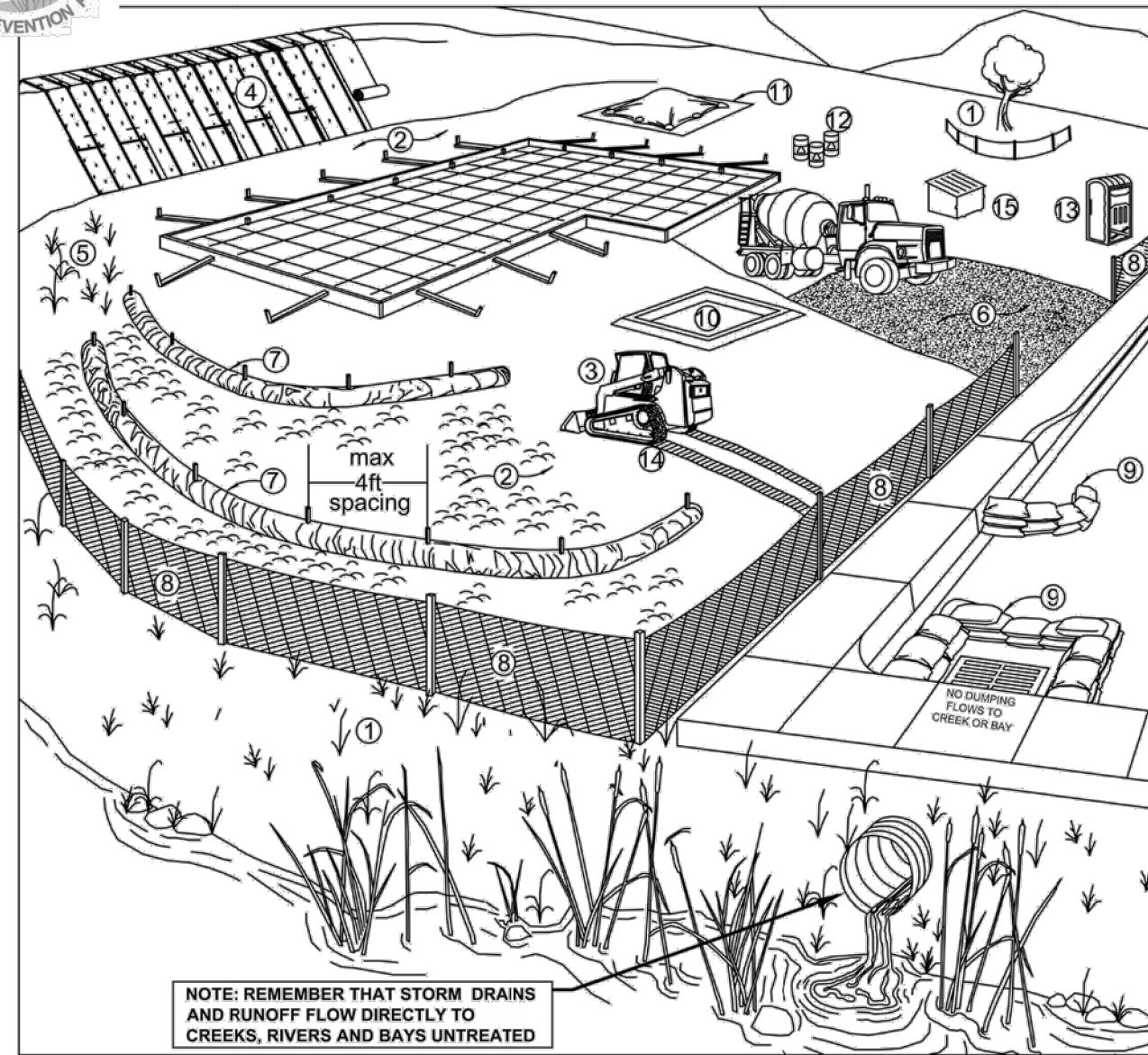| Mark	Description	Date	By

SITE PLAN
Sausalito Storm Damage Repair
North Street Steps
Sausalito, California

Project No. 264.048

SHEET
1

Typical Section (left)

65 — 65
60 — 60
55 — 55
50 — 50
45 — 45
40 — 40
35 — 35
30 — 30
25 — 25
20 — 20
15 — 15
10 — 10
5 — 5

APPROX LOCATION OF (N) SOLDIER PILE
RETAINING WALL IN BACKYARD OF RESIDENCE
AT 6 JOSEPHINE STREET

PROPERTY BOUNDARY

HYDROSEED & INSTALL EROSION CONTROL
MATS OVER ALL DISTURBED AREAS

INSTALL TEMP FIBER ROLL
PER CALTRANS STD T56

TRIM (E) GROUND SURFACE AS
REQUIRED TO REMOVE LOOSE DEBRIS
AND LAYBACK OVERSTEEPENED AREAS

INSTALL TEMP SILT FENCE
ALONG BASE OF SLOPE
PER CALTRANS STD T51

NEW RAILING BY OTHERS

REMOVE DEBRIS FROM STAIRS
AND SLOPE BELOW

HYDROSEED & INSTALL EROSION CONTROL
MATS OVER ALL DISTURBED AREAS

REMOVE DEBRIS WHICH
HAS ACCUMULATED AT
BASE OF SLOPE. PROTECT
(E) PARK FEATURES

INSTALL TEMP FIBER ROLL
PER CALTRANS STD T56

INSTALL TEMP SILT FENCING ALONG
BOTTOM OF DISTURBED AREA PER
CALTRANS STD T51

REMOVE K-RAILS
& RETURN TO
CITY CORP YARD

A / 1 TYPICAL SECTION
(SCALE: 1" = 5'-0")

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

max
4ft
spacing

NOTE: REMEMBER THAT STORM DRAINS
AND RUNOFF FLOW DIRECTLY TO
CREEKS, RIVERS AND BAYS UNTREATED

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

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
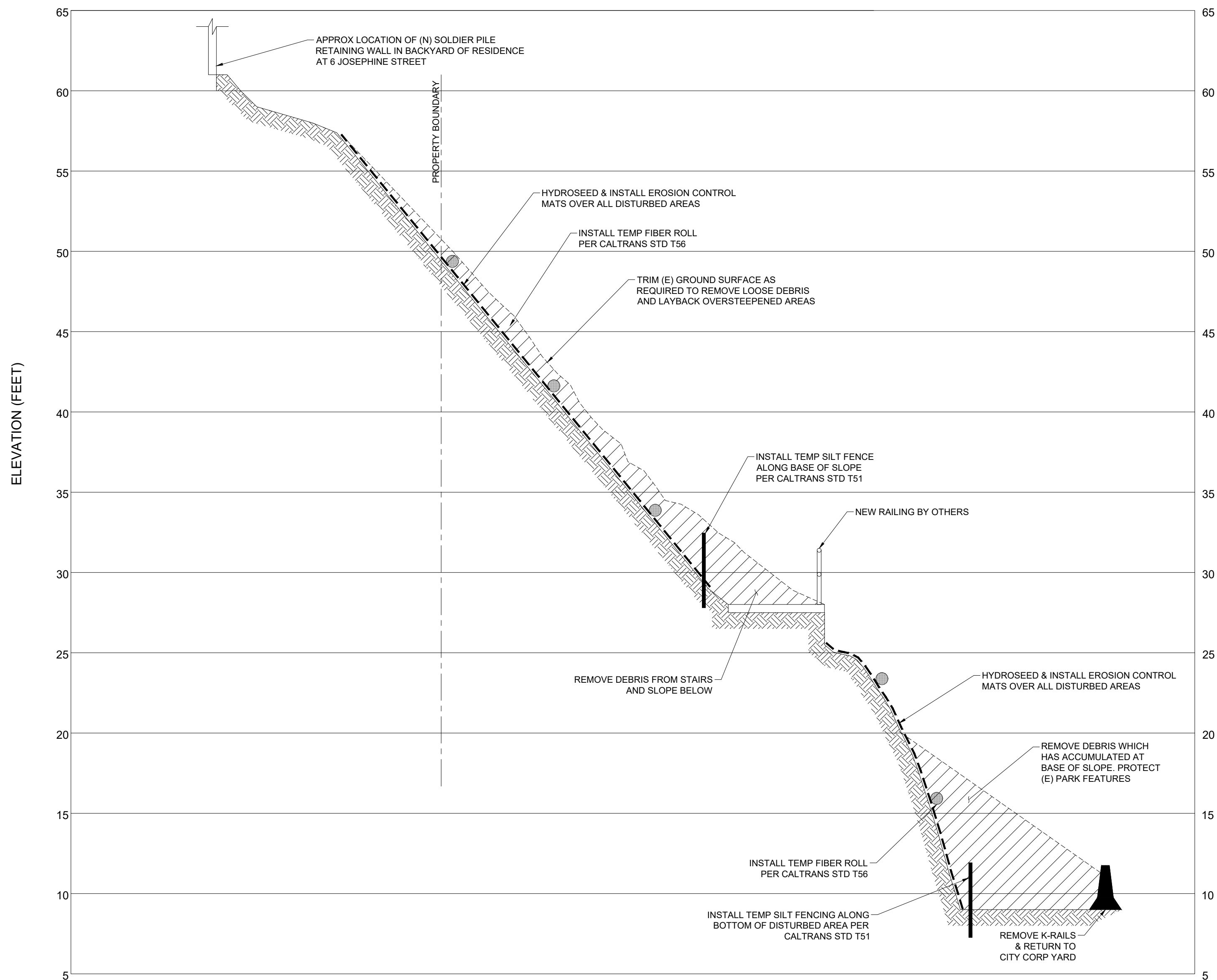
Control Measure		General Description
Erosion Control Best Management Practices		
N/A	Scheduling	Plan the project and develop a schedule showing each phase of construction. Schedule construction activities to reduce erosion potential, such as scheduling ground disturbing activities during the summer and 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 and 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.*
Sediment 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 ends 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 3 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/~media/Files/Departments/PW/mcstoppp/development/TrenchingSWReqMCSTOPPPFinal6_09.pdf. *For more info see the following factsheets: CASQA: NS-2; or Caltrans: NS-2.*
Good Housekeeping Best 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-3 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. Immediately 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.*

STAPLES

Erosion Blanket
Note: Actual layout determined in the field.

Non Woven geotextile Filter fabric under typical treatment.

Wet Slope Lining
Not To Scale

Extra strength filter fabric needed without wire mesh support
Steel or wood post
Attach filter fabric securely to upstream side of post
FLOW
SLOPE
FLOW
Steel or wood post
36" (1m) Max height
Ponding height
Filter
Trench Detail

10' (3m) maximum spacing with wire support fence
6' (1.8m) maximum spacing without wire support fence

Notes:
1. Silt fence shall be placed level along slope contours to maximize ponding efficiency with the ends curved uphill to improve ability to retain water.
2. Attach silt fence filter fabric securely to upstream side of post.
3. Removed sediment shall be deposited to an area that will not contribute sediment off-site and can be permanently stabilized.

Silt Fence
NOT TO SCALE

Diversion ridge required where grade exceeds 2%
Right of Way
SECTION A-A
Filter fabric liner under rocks
Straw wattles along contour
Supply Water to Wash Wheels if Necessary
Right of Way
Diversion ridge and 12" min depth
3-4' Crushed rock — 20ft min for light trucks or as long as can fit on site
Plan

Notes:
1. The entrance shall be maintained to prevent sediment tracking or flowing onto public right-of-ways. This may require top dressing, repair and/or cleanout or other measures that trap sediment.
2. When necessary, wheels shall be cleaned prior to entering public right-of-way.
3. When washing is required, it shall be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin. Rumble plates or tire wash can be added.

Site Entrance

Berm
Wood frame securely fastened around entire perimeter
Sand bag
Straw bales
Binding wires
Native material or base
Plastic lining
Lath & flagging on three sides
Varies
Berm
Rough hemlock fir frame
Plastic lining
Sand bag
Straw bale

Plan Type "Below Grade"
not to scale

Plan Type "Above Grade"
Not to scale

Note: Actual layout determined in field

Concrete Washout

Wire Screen
Concrete Block
Gravel Bags
Catch Basins with Gravel Bags
(Do not use sand bags near inlets)

Overflow
Runoff Water
Drop Inlet with Grate
Filtered Water
Sediment
Gravel Bags

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MILLER PACIFIC ENGINEERING GROUP
MPEG

BID SET

SECTION & EROSION & SEDIMENT CONTROL
Sausalito Storm Damage Repair
North Street Steps
Sausalito, California
Project No. 264.048

Revisions
By | Date | Mark | Description

SHEET 2