

April 12, 2019

RE: Chorro Creek Ecological Reserve Floodplain Restoration Project, Addendum No.1

This Addendum shall be considered part of the bid documents for the above-mentioned project. In the case of any conflicting information, the provisions of this addendum supersede the original bid documents and any prior addenda. Bidders must acknowledge the addendum with the bid submittal.

ADDENDUM NUMBER 1

A. Bid Documents and Specifications Updates

The following changes have been made:

1. Article 6.03 Contractors Insurance- The General Conditions of the Construction Contract (Section 00 72 15) has been updated to include further information on insurance and liability (6.03 K). The following information has been added after 6.03 J.

- K. The limits of liability for the insurance required by Paragraph 6.03 of the General Conditions shall provide coverage for not le than the following amounts or greater where required by Laws and Regulations:
 - 1. Workers' Compensation:

| State: | | Statutory |
|--|-----------|-----------|
| Federal, if applicable (e.g., Longshoreman's): | Statutory | |
| Employer's Liability: | | |
| Bodily injury, each accident | \$ | 1,000,000 |
| Bodily injury by disease, each employee | \$ | 1,000,000 |
| Bodily injury/disease aggregate | \$ | 1,000,000 |

2. Contractor's Commercial General Liability under Paragraphs 6.03.B and 6.03.C of the General Conditions:

| General Aggregate | \$ 2,000,000 |
|---|---------------|
| Products - Completed Operations Aggregate | \$ 2,000,000 |
| Personal and Advertising Injury | \$ 2,000,000 |
| Each Occurrence (Bodily Injury and Property Damage) | \$ _1,000,000 |

3. Automobile Liability under Paragraph 6.03.D. of the General Conditions:

| | Bodily Injury: | | |
|----|-----------------------------------|----|-----------|
| | Each person | \$ | 1,000,000 |
| | Each accident | \$ | 1,000,000 |
| | Property Damage: | | |
| | Each accident | \$ | 1,000,000 |
| 4. | Excess or Umbrella Liability: | _ | |
| | General Aggregate | \$ | 2,000,000 |
| 5. | Contractor's Pollution Liability: | | |
| | Each Occurrence | \$ | |
| | General Aggregate | \$ | |



If box is checked, Contractor is not required to provide Contractor's Pollution Liability insurance under this Contract

- 6. Additional Insureds: In addition to Owner and Engineer, include as additional insureds the following entities and their officers, directors, and employees: Morro Bay National Estuary Program, The Bay Foundation of Morro Bay.
- 2. Sheets EC-1 and EC-2 have been amended as follows and shown on the attached drawings:
 - a. Sheet EC-1: Lines shown in red indicate fiber roll that has been <u>removed</u> from the project. In general, this corresponds to fiber roll shown:
 - i. at the top of bank on the north side of the channel
 - ii. at the edge of the active channel
 - b. Sheet EC-1: Notes and detail modified to indicate fiber roll at top of slope to be installed as shown on EC-1.
 - c. Note, even if not shown explicitly on the drawings, slopes 3:1 or steeper will require installation of erosion control fabric.
 - d. Sheet EC-2: Notes and detail modified to indicate fiber roll at top of slope to be installed as shown on EC-1.
- 3. Sheet G-2 has been amended as follows:
 - Within the 'Contractor Coordination with Project Sponsor' table: <u>Remove</u> the text "Rehabilitate the existing well, install 2" valve point of connection for irrigation system" under contractor activity for irrigation.
- 4. Sheet C-4 has been amended as follows:
 - a. <u>Remove</u> Detail A Access Road Crossing: Alternative A.

B. Responses to Questions:

1. Are there multiple options for channel de-watering?

Yes, there are two options for controlling water along Chorro Creek. These can be found under 3.03 Control of Water within the Excavation and Fill documentation (Section 31 23 00).

2. Is there a survey control point available at the project site?

Yes, the survey control point is shown on sheet G-2 of the design sheets.

3. Will CAD files of the design sheets be available to reference?

Yes, a sub-set of the CAD file design sheets have been posted to the website.

4. What are the insurance requirements for the project?

Insurance requirements have now been updated and included above.

6. Is pollution insurance required for the project?

No, pollution insurance is not required for the project.

7. What is the engineers estimated cost for the project?

The engineers estimate for the project is \$850,000 to 900,000.

8. Can ungalvanized metal pins be substituted for the wooden ecostakes for the fastening of the netting?

No, ungalvanized metal pins cannot be substituted.

9. How much of the 8.9 acres will be drill seeded? Hydroseeded? Or hand seeded?

Drill seed shall be used at all feasible locations. Where the slope is too steep or floodplain is too narrow for equipment access, then those areas shall be hydroseeded. Areas that are inaccessible to drill seed or hydroseed equipment shall be seeded with broadcast seed.

10. Will the straw mulching be required on all seeded areas regardless of method used?

Straw mulching is only required on drill seed or broadcast seed areas. Hydroseed shall include mulch in the application.

11. Will straw mulch be installed below the netted surfaces?

Erosion control fabric (netted surfaces) are required on all slopes 3:1 or steeper. If these areas are drill seeded or broadcast seeded, then straw mulch will need to be installed below erosion control fabric. If these areas are hydroseeded, then straw mulch is not required.

12. Can 100% biodegradable straw fiber rolls be substituted for coir/straw fiber rolls specified?

Contractor may propose substituting a 100% biodegradable straw fiber roll that meets or exceeds the specification for NA Green SediMax-SWB9.

Thank you for your interest in this project. If you have any questions regarding this addendum, please contact Carolyn Geraghty (cgeraghty@mbnep.org, 805-772-3834 ext.12)

Sincerely,

Carolyn Geraghty, Restoration Projects Manager Morro Bay National Estuary Program

| DEFINITIONS | | 19. THE LOCATION OF EXISTING UTILITIES KI THEIR APPROXIMATE LOCATION BASED (|
|--|---|--|
| | R: MORRO BAY NATIONAL ESTUARY PROGRAM (MBNEP) CONTACT: CAROLYN DOEHRING, (805) 772–3834 | ACTUAL LOCATION, SIZE, TYPE, AND NU THAT SHOWN, AND UTILITIES MAY BE PI |
| PROPERTY OWNER | R: CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE (CDFW) CONTACT: BOB STAFFORD | 20. PROTECT ALL EXISTING UTILITIES WHETH |
| RESTORATION EN | CONTACT: SCOTT STOLLER, P.E., (415) 262–2337 | DRAWINGS. 21. CALL UNDERGROUND SERVICE ALERT FO |
| | ENTATIVE: THE DESIGNATED CONSTRUCTION MANAGER AND PRIMARY | LEAST 48 HOURS IN ADVANCE OF BEGI |
| , | THE OWNER'S REPRESENTATIVE WILL COORDINATE AS NEEDED WITH ONSOR, PROPERTY OWNER, AND RESTORATION ENGINEER. | 22. COORDINATE POWER POLE RELOCATION |
| | | TOPOGRAPHIC DATA |
| | ES HIGHLIGHT KEY REQUIREMENTS OF THE SPECIFICATIONS AND DDITIONAL PROJECT INFORMATION. THE CONTRACTOR SHALL COMPLY | 23. ELEVATIONS ARE REFERENCED TO NORT (NAVD88). HORIZONTAL CONTROL IS NO 2011), CALIFORNIA STATE PLANE COORE |
| | EQUIREMENTS CONTAINED IN THE PLANS, TECHNICAL SPECIFICATION DOCUMENT), AND OTHER CONTRACT DOCUMENTS, INCLUDING | 24. ALL ELEVATIONS AND HORIZONTAL COOP |
| | RUCTION SPECIFICATIONS FOR THIS PROJECT ARE IN BOOK FORM | 25. THE SURVEY CONTROL AVAILABLE IN TH G-3. CONTROL POINT FV0393 (E 259 F NORTHING = 2,326,204.22; EASTING = |
| PART OF TH RESPONSIBL | DITION TO THESE CONSTRUCTION DRAWINGS, ARE AN INTEGRAL HE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL BE FULLY LE FOR CONFORMANCE TO ALL REQUIREMENTS PRESCRIBED IN WINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL HAVE READ | 26. VOLBRECHT SURVEYS, INC. CONDUCTED FENCES, UTILITIES, CROSSINGS, AND CH JUNE 2005. |
| AND EXECU | UNDERSTAND THE SPECIFICATIONS BEFORE GIVING A BID PRICE TING THE CONTRACT TO CONDUCT THE WORK CONTAINED THEREIN. | 27. THE AERIAL PHOTO IS FROM UNITED ST ORTHO-RECTIFIED MOSAIC TILES WERE (2011. |
| RESERVE (C | THE PROJECT IS LOCATED IN THE CHORRO CREEK ECOLOGICAL CCER) WHICH IS OWNED AND MANAGED BY CDFW. COOPERATE WITH | 28. EXISTING CONDITIONS TOPOGRAPHY BAS |
| | TES CONDUCTED BY THE OWNER. DAL: TO IMPROVE RIPARIAN FLOODPLAIN HABITAT AND REDUCE | SETS FROM THE PG&E DIABLO CANYON AND LOS OSOS, CA 2011). |
| EROSION AN SECONDARY | ND FINE SEDIMENT TRANSPORT IN CHORRO CREEK BY FORMALIZING CHANNELS AND CREATING A FUNCTIONAL FLOODPLAIN. | 29. SPOT ELEVATIONS SHOWN ON THE DRAN CONDUCTED BY ESA IN JULY 2015. THE BEEN INCORPORATED INTO THE TOPOGR |
| | COPE INCLUDES, BUT IS NOT LIMITED TO: ATE TWO SIDE CHANNELS ON THE SOUTH FLOODPLAIN OF CHORRO | 30. ELEVATION CONTOURS ARE APPROXIMAT |
| CREEK. B. GRADE | AND REVEGETATE FLOODPLAINS TO ESTABLISH RIPARIAN HABITAT. | REFERENCE ONLY. THE ACCURACY OF T BY DISTORTION DUE TO EXISTING VEGET WITHIN THE MAIN CHANNEL AT THE TIMI |
| | E AN AT-GRADE CREEK CROSSING. | 31. CONTRACTOR SHALL ESTIMATE QUANTITI CONTINGENCY IN ITS BID TO COVER TOP |
| WORK | L EROSION CONTROL, TEMPORARY IRRIGATION, AND ANCILLARY AS DESCRIBED ON THESE DRAWINGS AND TECHNICAL | VARIABILITY. |
| 6. THE PROJEC SHALL BE F | CATIONS. CT IS A "BALANCED" EARTHWORK PROJECT. EXCAVATED MATERIAL PLACED AS SHOWN ON THE DRAWINGS. ANY EXCESS FILL SHALL BE PLACED ONSITE AS DIRECTED BY THE OWNER'S | 32. CONTRACTOR MAY OPT, AT THEIR OWN PRE-CONSTRUCTION SURVEYS AND SITE TECHNICAL SPECIFICATIONS. THE CONTR PRE-CONSTRUCTION SURVEY TO THE O BASIS OF EARTHWORK QUANTITIES. |
| 7. COMPLIANCE | E: THE CONTRACTOR IS RESPONSIBLE FOR BEING AWARE OF AND | 33. SURVEY AND GRADE CONTROL: THE CO SURVEY CONTROL AND LAYOUT NEEDED |
| PERFORMING | WITH ALL LAWS AND REGULATIONS AND PERMITS APPLICABLE TO G THE WORK, INCLUDING THE REQUIREMENTS OF PERMITS OBTAINED T SPONSOR. | CONTRACTOR'S SURVEYING METHODS SH STANDARD SURVEY PRACTICES AND SH REPRESENTATIVE PRIOR TO COMMENCING |
| | NTRACTOR IS RESPONSIBLE FOR SITE SAFETY AND SECURITY AT THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL ASSESS | |
| | ANTAIN SAFE OPERATIONS AT ALL TIMES. | ENVIRONMENTAL PROTECTION 34. REGULATORY PERMITS: THE CLIENT WILL |
| PG&E WILL CONJUNCTIO | ICLUDES OVERHEAD POWER LINES, EXERCISE EXTREME CAUTION. BE REMOVING JUNCTION POLE(S) AND POWER LINES IN IN WITH THE PROJECT. COORDINATE WORK ACTIVITIES TO ENSURE E ARE NO CONFLICTS. | AGENCIES FOR THIS PROJECT. COMPLY PROTECTION OF WATER QUALITY, WILDLI |
| | SIGNED WORKING DRAWINGS AND A SET OF SPECIFICATIONS SHALL | 35. CONTRACTOR TO OBTAIN ALL OTHER PE 36. FISH PROTECTION: THE PROJECT SITE S |
| VARIATIONS | N THE JOB SITE AT ALL TIMES ON WHICH ALL CHANGES OR IN THE WORK, INCLUDING ALL EXISTING UTILITIES, ARE TO BE AND/OR CORRECTED DAILY AND SUBMITTED TO THE PROJECT | STEELHEAD. THE CONTRACTOR SHALL P IS PROTECTIVE OF THESE AND OTHER F |
| | HEN THE WORK TO BE DONE IS COMPLETED. | 37. COMPLY WITH ALL SCHEDULE RESTRICTION FOR PROTECTION OF OTHER PROTECTED |
| PRE-CONST | R SHALL CONTACT THE OWNER'S REPRESENTATIVE TO ARRANGE A RUCTION MEETING FOR THE PURPOSE OF REVIEWING JOB NTS AND PROCEDURES. | 38. CONTRACTOR SHALL PREPARE AND IMPI PREVENTION PLAN (SWPPP) AS REQUIRE RESOURCES CONTROL BOARD. INCORPOR |
| | R SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 72 DR TO COMMENCEMENT OF ANY PART OF WORK. | CONTROL BEST MANAGEMENT PRACTICES SEDIMENT, AND HAZARDOUS MATERIALS |
| | AL SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR HERWISE NOTED. | SITE. 39. ALL MATERIALS THAT COULD CAUSE WA |
| CONDITIONS OF THE OW WITHOUT WE CONTRACTO | ONS OR ADDITIONAL WORK REQUIRED AS A RESULT OF FIELD OR OTHER REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION NER'S REPRESENTATIVE. WORK PERFORMED BY THE CONTRACTOR RITTEN AUTHORIZATION SHALL BE THE FULL RESPONSIBILITY OF THE R WHO BEARS ALL COSTS. ALL REVISIONS SHALL BE IN WRITTEN | FUELS, PAINTS, ETC.) SHALL BE STORED A MANNER THAT WILL NOT CAUSE ANY AND ANY ACCIDENTAL SPILLS SHALL BE APPROVED DISPOSAL SITE. |
| | DER FORM AND APPROVED AND AUTHORIZED BY THE OWNER'S ATIVE BEFORE BEGINNING WORK. | WATER MANAGEMENT 40. SITE ACCESS REQUIRES MOBILIZATION O |
| <u>SITE ACCESS</u> 15. SITE ACCES | S WILL BE FROM LOCKED GATE AT GILARDI ROAD AND TOMASINI | 40. SITE ACCESS REQUIRES MOBILIZATION O AT-GRADE CREEK CROSSING. CONTRACT VEHICLES: EITHER THROUGH DEWATERIN CROSSING ABOVE THE WATER SURFACE. |

- ROAD. THE PRIMARY ACCESS ROUTE IS SHOWN ON THE PLANS (SHEET G-3). THE CONTRACTOR SHALL COORDINATE ALL SITE ACCESS AND STAGING WITH THE OWNER.
- 16. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING FACILITIES, INFRASTRUCTURE, IMPROVEMENTS AND VEGETATION NOT PLANNED FOR DEMOLITION OR REMOVAL, AND SHALL REPLACE IN-KIND ANY DAMAGED FACILITIES OR VEGETATION AT ITS OWN EXPENSE AND TO THE OWNER'S SATISFACTION.
- 17. THE CONTRACTOR SHALL LOCATE ITS STAGING, STORAGE AND PROCESSING AREA(S) OUTSIDE THE LIMITS OF EARTHWORK AT LOCATION(S) SHOWN ON THE DRAWINGS AND/OR APPROVED BY THE OWNER'S REPRESENTATIVE.

UTILITIES

18. IDENTIFY, LOCATE, AND PROTECT ALL EXISTING UTILITIES WITHIN THE LIMITS OF WORK, INCLUDING ONSITE AND OFFSITE ACCESS ROUTES.

NOWN TO THE OWNER ARE SHOWN IN ON INFORMATION AVAILABLE. THE JMBER OF UTILITIES MAY DIFFER FROM PRESENT THAT ARE NOT SHOWN. HER SHOWN OR NOT SHOWN ON THE

OR BURIED UTILITY INFORMATION AT INNING WORK.

WITH PG&E AND OWNER.

TH AMERICAN VERTICAL DATUM 1988 DRTH AMERICAN DATUM 1983 (NAD83, DINATE SYSTEM, ZONE 5, US FEET.

RDINATES ARE IN FEET.

HE PROJECT AREA IS SHOWN ON SHEET RESET 1965) IS A USGS BENCHMARK. 5,733,062.12; ELEVATION = 125.05.

A SURVEY OF THE SITE ROADS, ORRO CREEK MAIN STEM THALWEG IN

TATES GEOLOGICAL SURVEY (USGS). CAPTURED FROM JULY TO SEPTEMBER

SED ON TWO BARE-EARTH LIDAR DATA POWER PLANT (SAN SIMEON, CA 2013

WINGS ARE BASED ON GROUND SURVEY ESE ELEVATIONS POINTS HAVE NOT RAPHIC SURFACE.

TE AND PROVIDED FOR GENERAL THE ELEVATION CONTOURS IS LIMITED TATION AND THE PRESENCE OF WATER IE OF LIDAR SURVEY.

TIES AND INCLUDE SUFFICIENT POGRAPHIC AND BATHYMETRIC

EXPENSE, TO PERFORM INVESTIGATIONS AS DESCRIBED IN THE RACTOR SHALL SUBMIT THE WNER'S REPRESENTATIVE TO FORM THE

NTRACTOR IS RESPONSIBLE FOR ALL TO PERFORM THE WORK. THE ALL BE IN ACCORDANCE WITH IALL BE APPROVED BY THE OWNER'S IG THE SURVEY.

OBTAIN PERMITS FROM RESOURCE WITH ALL PERMIT REQUIREMENTS FOR FE, AND VEGETATION.

ERMITS NOT PROVIDED BY OWNER.

SUPPORTS PROTECTED POPULATIONS OF PERFORM THE WORK IN A MANNER THAT FISH SPECIES.

IONS INCLUDED IN PROJECT PERMITS FISH AND WILDLIFE.

LEMENT A STORMWATER POLLUTION RED BY THE REGIONAL WATER PRATE SEDIMENT CONTROL AND EROSION S (BMPS) TO PREVENT EROSION, RUNOFF FROM THE CONSTRUCTION

ATER POLLUTION (I.E., MOTOR OIL, ED IN A CONTAINED AREA AND USED IN POLLUTION. ALL DISCARDED MATERIAL REMOVED AND DISPOSED OF AT AN

OF EQUIPMENT THROUGH THE EXISTING TOR SHALL PROVIDE DRY PASSAGE FOR NG OR INSTALLATION OF A TEMPORARY ACCESS WITH CONVENTIONAL EQUIPMENT INCLUDING WHEELED SCRAPERS MAY BE DIFFICULT OR NOT POSSIBLE. CONTRACTOR TO UTILIZE EQUIPMENT APPROPRIATE FOR PASSAGE

41. THE CONTRACTOR IS RESPONSIBLE FOR ALL WATER MANAGEMENT THROUGHOUT

OVER THE EXISTING CROSSING.

HORIZ. – HORIZONTAL

DEMO – DEMOLISH/DEMOLITION

ABBREVIATIONS

DBH

DIA

(E)

EQ

GB

INV

LWS

FT

APPROX – APPROXIMATE

CONSTRUCTION, INCLUDING DEWATERING AND DRAINAGE. KEEP THE SITE REASONABLY DEWATERED TO PERFORM AND CONTROL THE WORK.

- 42. CONSTRUCTION REQUIRES WORK IN THE ACTIVE CHANNEL; THE PROJECT MAY REQUIRE DEWATERING AND FLOW DIVERSION. COMPLY WITH PERMIT REQUIREMENTS FOR WILDLIFE AND WATER QUALITY PROTECTION (SEE SPECS).
- 43. TREAT AND DISPOSE OF REMOVED WATER IN COMPLIANCE WITH ALL PERMITS. AT A MINIMUM, TREAT ALL REMOVED WATER AS NEEDED TO REMOVE SUSPENDED SEDIMENT PRIOR TO DISCHARGE AWAY FROM THE CREEK CHANNEL.

<u>EARTHWORK</u>

- 44. CONTRACTOR IS RESPONSIBLE FOR ESTIMATED ALL EARTHWORK QUANTITIES. APPROXIMATE EARTHWORK QUANTITIES ARE PROVIDED FOR CONTRACTOR'S REFERENCE ONLY.
- 45. WHEN ESTIMATED EARTHWORK QUANTITIES, THE CONTRACTOR SHALL ACCOUNT FOR VARIATIONS BETWEEN CUT AND FILL VOLUMES DUE TO ALL FACTORS INCLUDING, BUT NOT LIMITED TO, SHRINKAGE, BULKING, TOPOGRAPHIC UNCERTAINTIES, AND COMPACTION.
- 46. GRADE ALL DISTURBED AREAS TO CREATE SMOOTH SURFACES AND TO DRAIN TO THE NEW AND/OR EXISTING CHANNEL.
- 47. SEE DRAWINGS AND SPECIFICATIONS FOR COMPACTION REQUIREMENTS AND VERTICAL TOLERANCES.
- 48. CONTRACTOR SHALL SALVAGE NATIVE MATERIAL FROM 6 TO 12 INCHES BELOW GRADE FOR USE AS TOPSOIL. SEGREGATE AND STOCKPILE TOPSOIL SEPARATELY FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE FOR REUSING AS PLANTING TOPSOIL.
- 49. OVER-EXCAVATE CUT AREAS OF FLOODPLAIN BY 0.5 FEET TO ALLOW PLACEMENT OF TOPSOIL.
- 50. RESTORE ALL DISTURBED AREAS BY SEEDING AND APPLYING EROSION CONTROL MEASURES PER THE DRAWINGS AND SPECS. RESTORE ALL ACCESS ROUTES TO ORIGINAL GRADES AND CONDITION TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- 51. DIMENSIONS: DIMENSIONS CAN BE SCALED FROM THESE PLANS. THE CONTRACTOR SHALL CONFIRM DIMENSIONS OF ALL GRADING ACTIVITIES WITH THE RESTORATION ENGINEER BEFORE WORK COMMENCEMENT. IF DIMENSIONING IS UNCLEAR OR INSUFFICIENT CONTACT THE RESTORATION ENGINEER FOR CLARIFICATION.

EROSION CONTROL AND SEEDING

- 52. FOLLOWING GRADING, ALL DISTURBED AREAS SHALL BE SEEDED AND STABILIZED AS SHOWN ON THE EROSION CONTROL PLANS.
- 53. ALL AREAS OF SOIL PREPARATION AND PLANTING ARE SUBJECT TO IN-FIELD DESIGN VERIFICATION AND ADJUSTMENTS AS DIRECTED BY THE OWNER.
- 54. CONTRACTOR SHALL ENSURE WATER SOURCE IS FUNCTIONING AND PROVIDE A 2" VALVE AS POINT OF CONNECTION FOR TEMPORARY IRRIGATION SYSTEM.
- 55. PROJECT SPONSOR AND REVEGETATION CONTRACTOR WILL PARTICIPATE IN INSTALLATION OF SELECT PROJECT FEATURES SHOWN IN THE DRAWINGS. THE TABLE BELOW PROVIDES A DETAILED BREAKDOWN OF THE CONTRIBUTIONS AND RESPONSIBILITIES OF THE CONTRACTOR, THE PROJECT SPONSOR, AND THE REVEGETATION CONTRACTOR FOR THESE PROJECT FEATURES.
- 56. THE CONTRACTOR SHALL COORDINATE ACTIVITIES WITH THE PROJECT SPONSOR AND THE REVEGETATION CONTRACTOR REGARDING TIMING AND PERSONNEL.
- 57. SHEETS L-1 THROUGH L-5 ARE NOT IN CONTRACT, BUT ARE PROVIDED AS REFERENCE. WORK DEPICTED ON SHEETS L-1 THROUGH L-5 ARE THE RESPONSIBILITY OF THE REVEGETATION CONTRACTOR.

CONTRACTOR COORDINATION WITH PROJECT SPONSOR

| ITEM/ ACTION CONTRACTOR ACTIVITY | | PROJECT SPONSOR ACTIVITY (MBNEP AND REVEGETATION CONTRACTOR) | |
|----------------------------------|---|---|--|
| SITE PREPARATION | CLEARING, GRUBBING, TREE SALVAGE AND REMOVAL, CONCRETE REMOVAL AND OFFHAUL | DEMOLISH EXISTING FENCE | |
| TEMPORARY CROSSING | GRADE CROSSING APPROACHES, ADD STONE AND AGGREGATE BASE, CONSTRUCT WATER DIVERSION AND TEMPORARY DRY CROSSING. | N/A | |
| LOG STRUCTURES | TRENCH, PLACE LOGS AND BALLAST, BACKFILL. | PROCURE, ASSEMBLE, AND INSTALL LIVE POLES AND BRANCH BUNDLES. | |
| EROSION CONTROL | AS NEEDED FOR SWPPP COMPLIANCE, DURING CONSTRUCTION. AFTER CONSTRUCTION: DRILL SEEDING, EROSION CONTROL FABRIC AND COIR LOG INSTALLATION. | N/A | |
| WILLOW BAFFLE | PROCURE QUARRY MATERIALS. PROVIDE EQUIPMENT AND OPERATOR FOR TRENCH WORK AND TO PLACE ROCK/SOIL MIX. | PROCURE AND INSTALL LIVE POLES. PROVIDE HAND LABOR TO ASSIST IN TRENCH BACKFILL. | |
| BRUSH MAT | PROCURE QUARRY MATERIALS. PROVIDE EQUIPMENT AND OPERATOR FOR TRENCH WORK. | PROCURE LIVE WILLOW STEMS. INSTALL WILLOW STEMS, COIR FABRIC, AND ROPE AND STAKE TIE-DOWN. | |
| PLANTED COBBLE TRANSITION | PROCURE AND INSTALL QUARRY MATERIALS AND PLANTING TUBES | PROCURE AND INSTALL PLANT MATERIAL. | |
| REVEGETATION | N/A | PROCURE AND INSTALL CONTAINER PLANTS AND WILLOW CUTTINGS. PLANT MAINTENANCE RESPONSIBILITY FOR 3 YEARS. INSTALL AND MAINTAIN PLANT PROTECTION CAGES. | |
| IRRIGATION | 2" VALVE POINT | INSTALL AND MAINTAIN TEMPORARY IRRIGATION SYSTEM. | |

LEGEND

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PROPERTY BOUNDARY PROJECT LIMIT GRADING LIMIT CONSTRUCTION ACCESS ROUTE (E) GRADE (PROFILE & SECTION) DESIGN GRADE (PROFILE & SECTION) (N) CHANNEL ALIGNMENT (E) CHANNEL ALIGNMENT TOP OF SLOPE TOE OF SLOPE (E) MAJOR CONTOUR LINE (E) MINOR CONTOUR LINE (N) MAJOR CONTOUR LINE (N) MINOR CONTOUR LINE (E) OVERHEAD POWER LINE(S) (E) BURIED TELECOM LINE(S) (E) FENCE DEMO FENCE COIR FABRIC ROLL

-INDICATES SECTION OR DETAIL NUMBER

OR DETAIL APPEARS

(E) POWER POLE

- SHEET NUMBER ON WHICH SECTION

C-3 -0-

 \times 5.23 SURVEYED SPOT ELEVATION (FT NAVD88) SURVEY BENCHMARK

GRADING CONTROL POINT

> FLOW DIRECTION



FLOODPLAIN/RIPARIAN SEED MIX

PLANTED COBBLE TRANSITION



UPLAND SEED MIX



BRUSH MAT



CLASS 2 AGGREGATE BASE

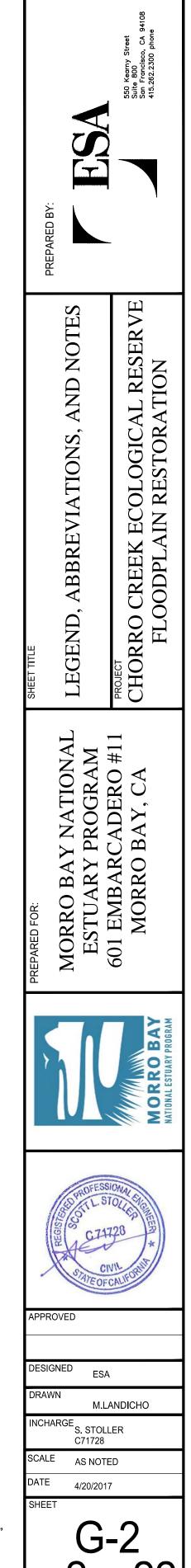
WILLOW BAFFLE

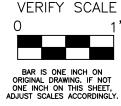


HABITAT LARGE WOOD STRUCTURE

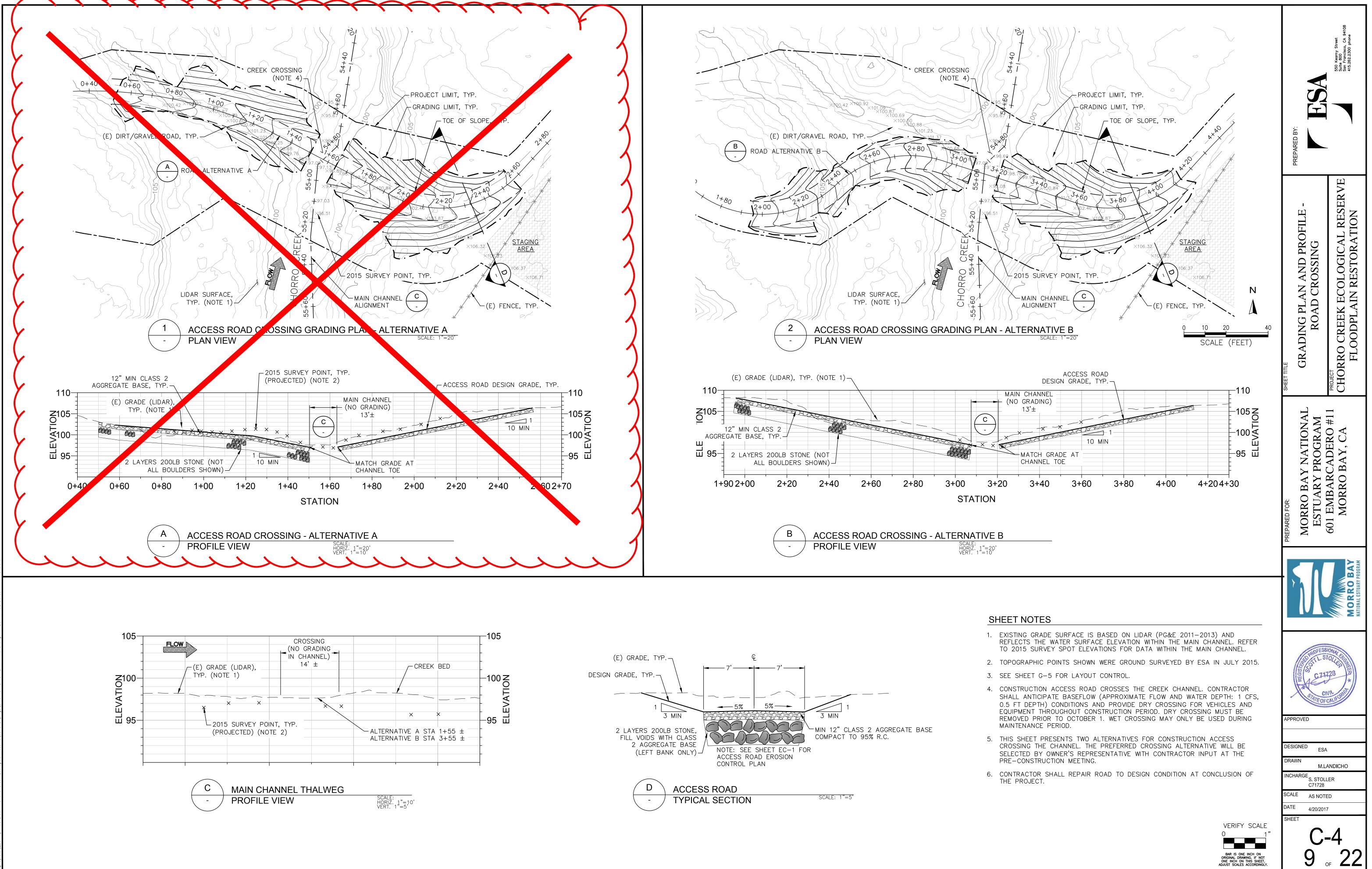


LOW PROFILE LARGE WOOD STRUCTURE

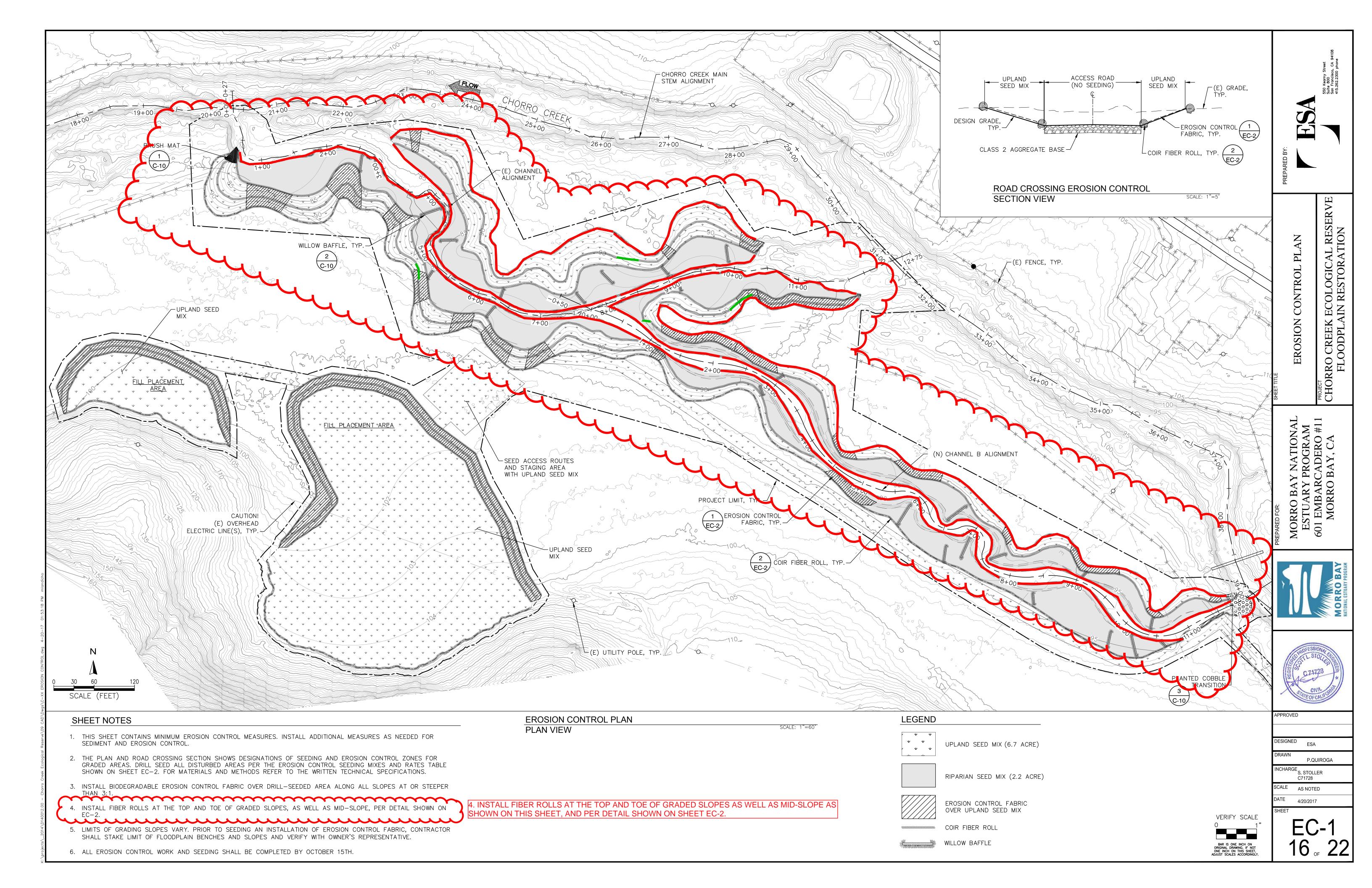




OF



._2014\D140012.00 - Chorro Creek Ecological Reserve\09 CAD\Dwgs\C-04 GRADING PLAN - ROAD.dwg 4-20-17 02:50:05 PM m



EROSION CONTROL NOTES

- 1. THIS SHEET CONTAINS MINIMUM EROSION CONTROL MEASURES. INSTALL ADDITIONAL MEASURES AS NEEDED FOR SEDIMENT AND EROSION CONTROL.
- 2. INSTALL EROSION CONTROL FABRIC ON ALL SIDE SLOPES AT
- OR STEEPER THAN 3:1. FIBER ROLLS SHALL BE PLACED AT TOP AND TOE OF GRADED SLOPES, AS WELL AS MID-SLOPE AS SHOWN ON SHEET L-1.
- 4. SEEDING AND EROSION CONTROL FABRIC SHALL BE INSTALLED IN AREAS AS SHOWN ON SHEET EC-1.
- 5. ALL EROSION CONTROL WORK AND SEEDING SHALL BE COMPLETED BY OCTOBER 15TH.

RIPARIAN SEED MIX

| SYMBOL | BOTANICAL NAME | COMMON NAME | GROWTH FORM | POUNDS OF PURE LIVE SEED (PLS)/ACRE |
|---------------------|------------------------|--------------------|-----------------|---|
| RIPARIAN SEED MIX (| 2.2 ACRE) | | | |
| | Artemesia douglasiana | MUGWORT | PERENNIAL SHRUB | 4 |
| | Baccharis salicifolia | MULEFAT | PERENNIAL SHRUB | 3 |
| | Elymus glaucus | BLUE WILD RYE | PERENNIAL GRASS | 8 |
| | Elymus triticoides | CREEPING WILD RYE | PERENNIAL GRASS | 6 |
| | Festuca microstachys | SMALL FESCUE | PERENNIAL GRASS | 6 |
| | Hordeum brachyantherum | MEADOW BARLEY | PERENNIAL GRASS | 4 |
| | Hordeum depressum | LOW BARLEY | PERENNIAL GRASS | 5 |
| | Stipa pulchra | PURPLE NEEDLEGRASS | PERENNIAL GRASS | 2 |
| SUBTOTAL | | | | 38 |

UPLAND SEED MIX

| SYMBOL | BOTANICAL NAME | COMMON NAME | GROWTH FORM | POUNDS OF PURE LIVE SEED (PLS)/ACRE |
|--|--------------------------|--------------------|---------------------------|---|
| UPLAND SEED MIX (6 | .7 ACRE) | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | Bromus carinatus | CALIFORNIA BROME | PERENNIAL GRASS | 12 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | Elymus glaucus | BLUE WILD RYE | PERENNIAL GRASS | 8 |
| · · · · · · · · · · · · · · · · · · · | Eschscholzia californica | CALIFORNIA POPPY | ANNUAL/ PERENNIAL FORB | 2 |
| · · · · · · · · · · · · · · · · · · · | Lupinius succulentus | ARROYO LUPINE | ANNUAL LEGUME | 6 |
| · · · · · · · · · · · · · · · · · · · | Stipa pulchra | PURPLE NEEDLEGRASS | PERENNIAL GRASS | 4 |
| | Vulpia microstachys | THREE WEEKS FESCUE | ANNUAL GRASS | 8 |
| SUBTOTAL | · | | • | 40 |

3. INSTALL FIBER ROLLS AT THE TOP

AND TOE OF GRADED SLOPES AS

SHEET.

WELL AS MID-SLOPE AS SHOWN ON

SHEET EC-1, AND PER DETAIL 1, THIS

