# Map and Drawing Standards for the South Pacific Division Regulatory Program

**Regulatory Program Workshop** 

May 01, 2015

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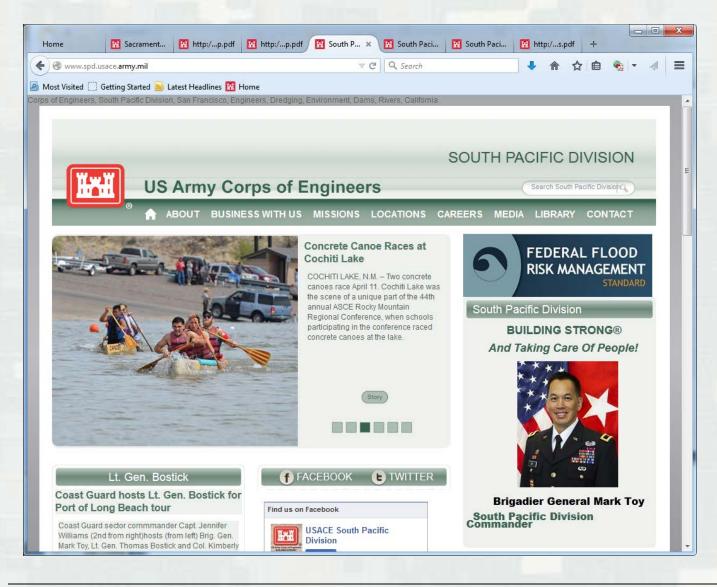
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## August 06, 2012 Public Notice

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	US Army Corps	SPECIAL PUBLIC NOTICE
	of Engineers® Final Map and Drawing Stand	rds for the South Pacific Division Regulatory Program
	South Pacific Division: Thomas Cavanaugh	776 ( <u>Paula.C.Gill@usace.army.mil</u> ) -3414 ( <u>Daniel.P.Swenson@usace.army.mil</u> ) 5) 342-3280 ( <u>Deanna.L.Cummings@usace.army.mil</u> ) 15) 503-6574 ( <u>Thomas.J.Cavanaugh@usace.army.mil</u> )
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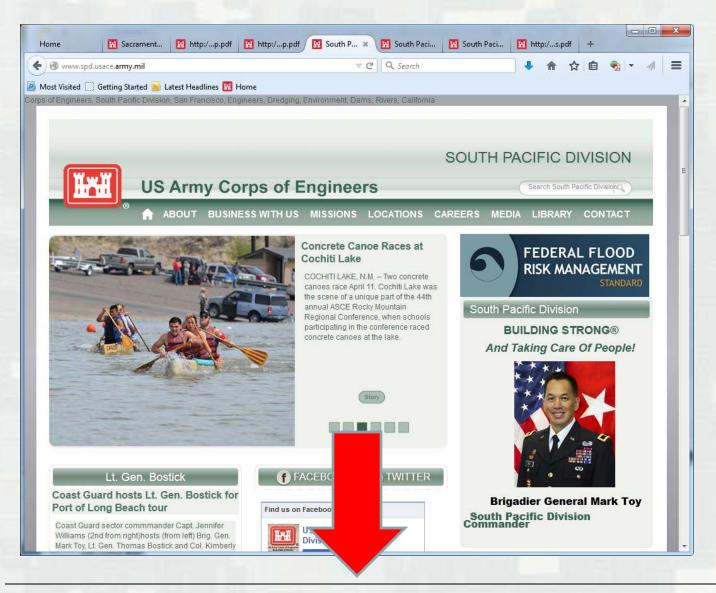


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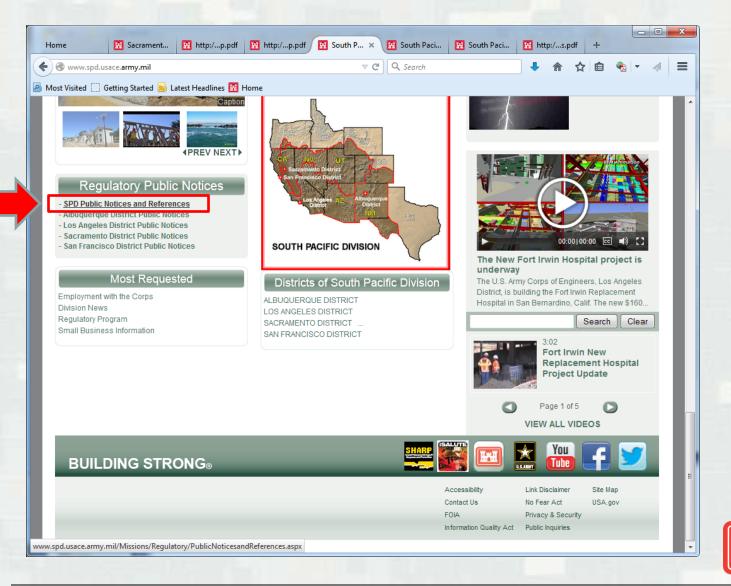


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#### References

#### **QMS Processes**

These are internal process documents which will affect how permit applicants and their representatives will work with SPD subordinate districts. These documents are for "Information Only." The controlled versions reside on the SPD QMS SharePoint Portal. Please verify that the version of any document is the current one prior to proceeding. 12501-SPD Standard Operating

Procedure for Determination of Mitigation Ratios

12502-SPD Regulatory Program Emergency Procedures

12503-SPD Regulatory Administrative Appeal Process 2

12504-SPD Essential Fish Habitat Procedures

12505-SPD Uniform Performance

Public Notices

Under the Corps' Regulatory Program, a public notice is the primary method for advising all interested parties of a proposed activity for which a permit is sought. Public notices are also published to inform the public about new or proposed regulations, policies, guidance or permit procedures.

Public Notices published by the South Pacific Division (SPD) under the Regulatory Program are posted on this page. SPD public notices are primarily published to inform the public about new or proposed guidance, templates, procedures, and regional general permits, which are applicable to more than one of SPD's subordinate districts. Once a public notice is available on-line, notification of the SPD Public Notice is sent to individuals on the mailing lists of the appropriate districts by each of the affected districts.

Public Notices



CLEAN WATER ACT INTERPRETIVE RULE FOR 404(f)(1)(A) - 2/2/2015: The U.S. Environmental Protection Agency (EPA) and the U.S. Department of the Army (Army) are announcing the withdrawal of an interpretive rule addressing the exemption from permitting provided under section 404(f)(1)(A) of the Clean Water Act (CWA). The agencies want to make clear that the statutory exemption of 404(f)(1)(A) still remains available for use when applicable for discharges of dredged and/or fill material associated with normal farming, silviculture, and ranching activities that are part of an established operation and that do





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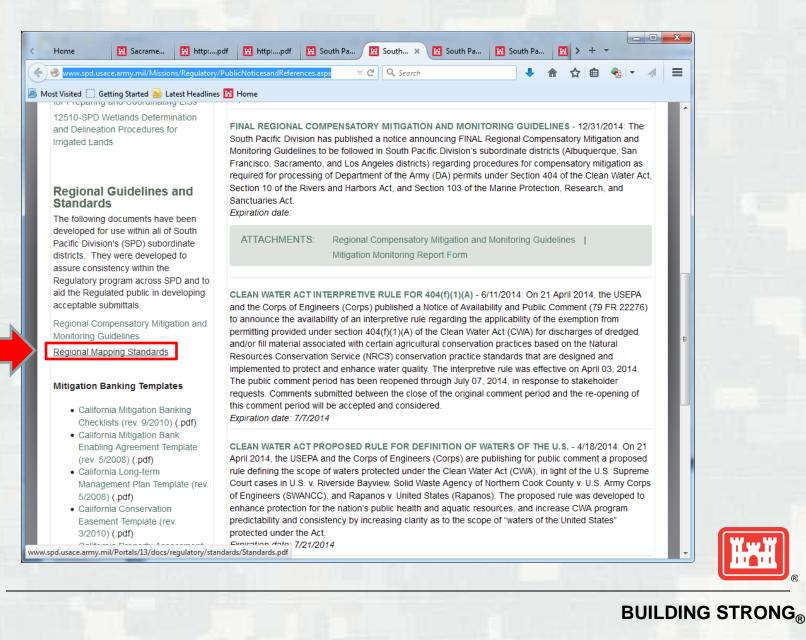


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# Applicability

- Standards apply to all submittals to Regulatory Divisions within the Districts of the Corps' South Pacific Division
  - Delineation maps
  - Proposed projects (impact maps)
  - Mitigation plan and long-term preservation maps
  - As-built plans (post-construction drawings)
  - Mitigation monitoring report maps

## May be (and will be) updated

- ► An update to the 2012 Standards is in review now
- Don't worry! most of the changes are minimal and are primarily clarifications





# Applicability

### Standards can be modified or waived at Corps' discretion

- Small or temporary impacts
- Applicant has limited financial resources
- Emergencies
- Restorations with limited funding
- Reauthorizations or maintenance, repair, rehabilitation, where original authorization included adequate drawings

## Compensatory Mitigation Plan drawings/maps

 Must adhere to the Standards even if Standards are waived for the overall project





# The Intent of the SPD Map and Drawing Standards

- Improve the quality and consistency of map products sent to Corps Regulatory Division
- Simplify and facilitate review and processing by Corps Regulatory project managers
- Good maps = clear story = faster review times and fewer requests for additional information







## **Map and Drawing Standards Organization**

### General Standards section

- ► The broadest of the map and drawing requirements
- Specifies format and required elements for ALL maps submitted
- Additional sections focused on specific types of maps or plans
  - e.g., for proposed projects, delineations, mitigation maps, etc...
  - Specify format and required elements for specific map types





### Format of submittal

- Both paper and electronic versions are required
- PDF is the preferred electronic document format
- Electronic document requirement may be waived for applicants without software access
- If GIS files are submitted, the preferred format is ESRI shapefile. Metadata needs to include at a minimum, datum(s) used, coordinate system, projection, and cartographer contact information
- Please submit electronic files on CD/DVD, or via links to a secure FTP site. No flash drives!!





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### A few words on data formatting...

- The current (2012) Map and Drawing Standards ask that shapefiles and tables in reports that describe the extent of aquatic resources, impacts, and permitee-responsible mitigation, conform to the format of three Excel workbooks that are accessed via links in the Standards text.
- The Updated Map and Drawing Standards (now in review) will point to a single consolidated Excel workbook that has individual tabs for each of the feature types listed above.

Heads Up! Even though PMs don't always ask for data to formatted as described in the workbooks, they may, especially when dealing with large numbers of aquatic features or impacts. It is technically a requirement that data conform to the format in the Excel workbooks, though this is not always enforced by the PM.





Submission of both a location (vicinity) map AND plan view map is a minimum requirement

## Location Maps

- At least one must use a USGS 7.5-minute quadrangle sheet as its basemap
- Quadrangle name identified
- Project study boundary clearly outlined and annotated
- Should include recognizable landmarks
- Include adjacent local roadways
- North arrow





Submission of both a location (vicinity) map AND plan view map is a minimum requirement

## Plan View Maps

- At least two control points on opposite corners, with latitude and longitude clearly annotated
- Date prepared/revised
- Name and organization of the cartographer
- Bar scale and scale text
- North arrow





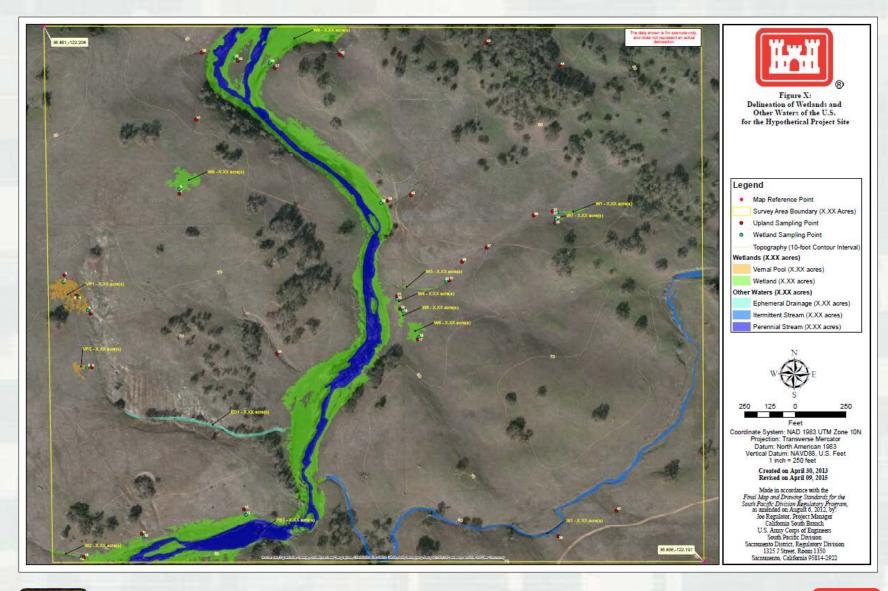
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## Plan View Maps

- Legend for all relevant features on the map this means wetlands and other waters of the U.S., the project boundary, project construction footprint, impacts to waters of the U.S., etc. Legend should include acres or square feet in parentheses for EVERY relevant feature or class of features!
- If elevations are shown, the vertical datum being used must be indicated on the map
- Locations of any cross-sectional views must be annotated clearly (e.g. "A-A")

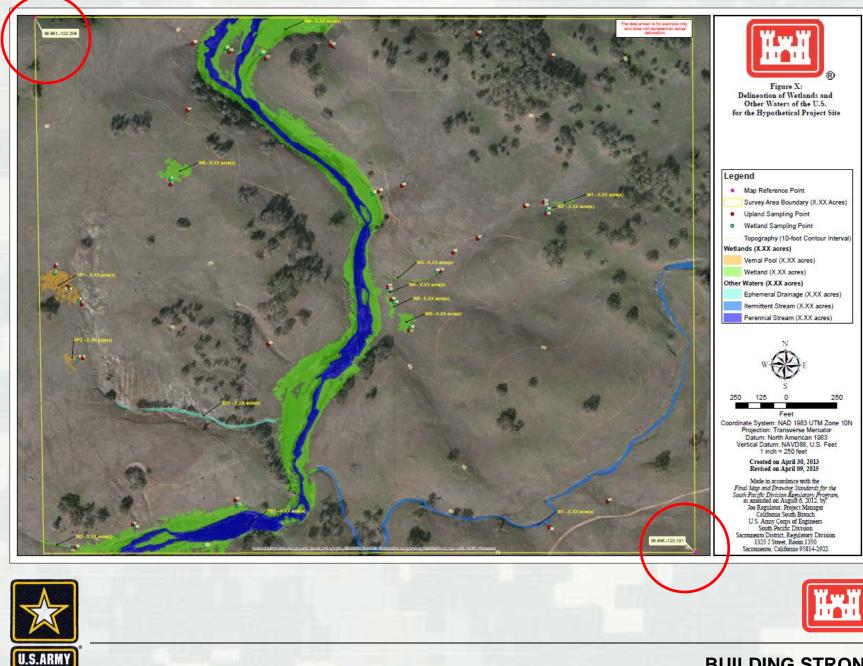


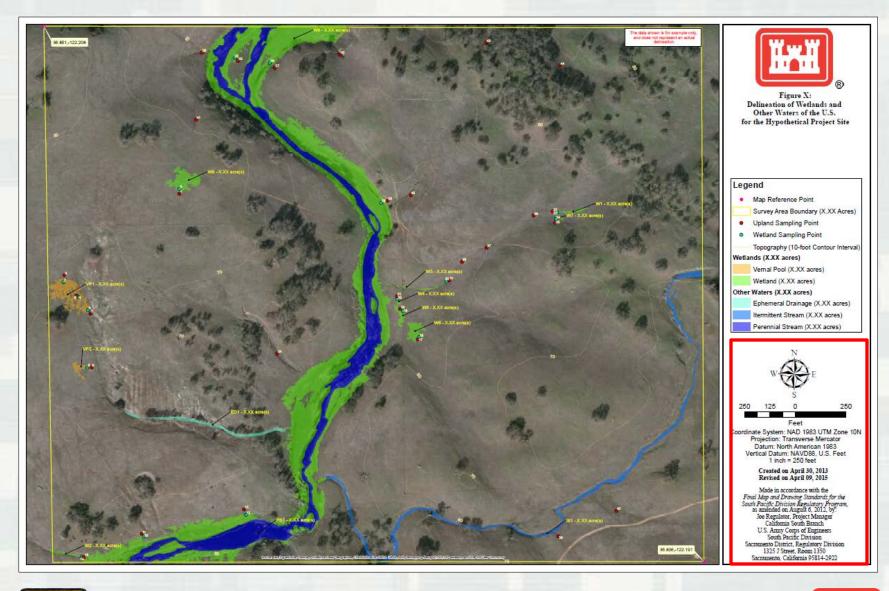






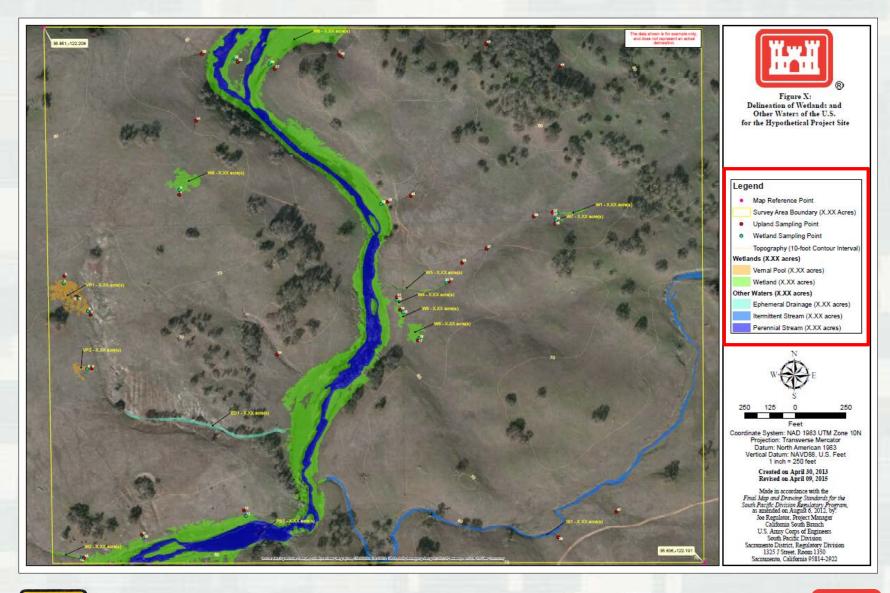
















### Basemaps used in Plan View Maps

- Topography is required, and should be shown on at least one map
- Aerial photography (if used)
  - Date stamped
  - Orthorectified
  - Source identified
  - Choose imagery with maximum visibility of aquatic resources (e.g. wet season)











# **Specific Standards**

### Cross-Sectional Views

- Must have a bar scale and scale text, for both the horizontal and vertical dimensions
- Vertical datum must be indicated
- If there are tidal areas within survey area, identify the location and elevation of both the Mean High Water and the High Tide Line
- Cross-Sectional Views are required for:
  - Proposed Projects / Construction Drawings
  - Mitigation Plans / Long Term Preservation Maps
  - As-Builts / Post-Construction Drawings
- Cross-Sectional Views for Delineation Maps are required at PM's discretion





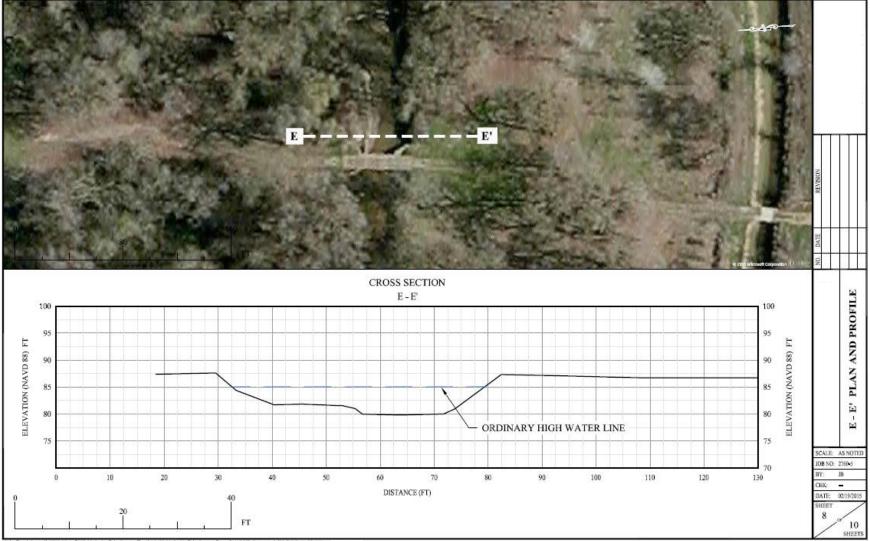


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## **Specific Standards**

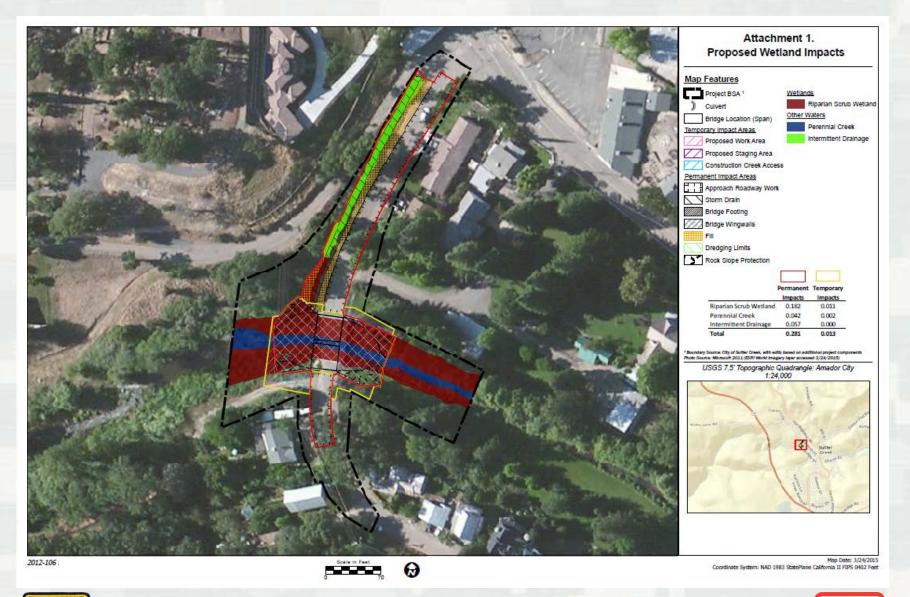
### Proposed Projects

All proposed fills, structures, and limits of work within and adjacent to wetlands and potential waters of the U.S. must be shown

 Clearly annotate all fills, structures, and limits of work as either permanent or temporary

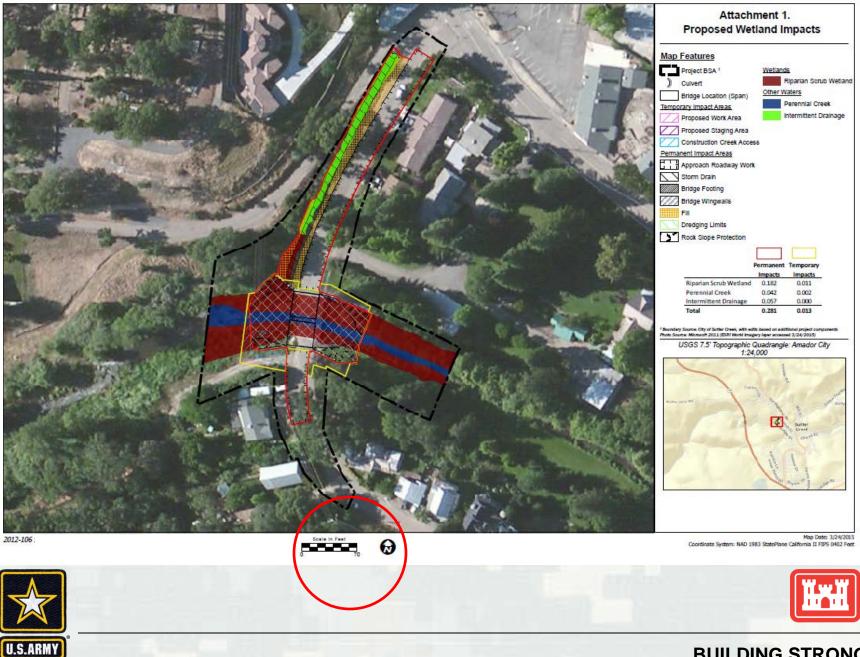


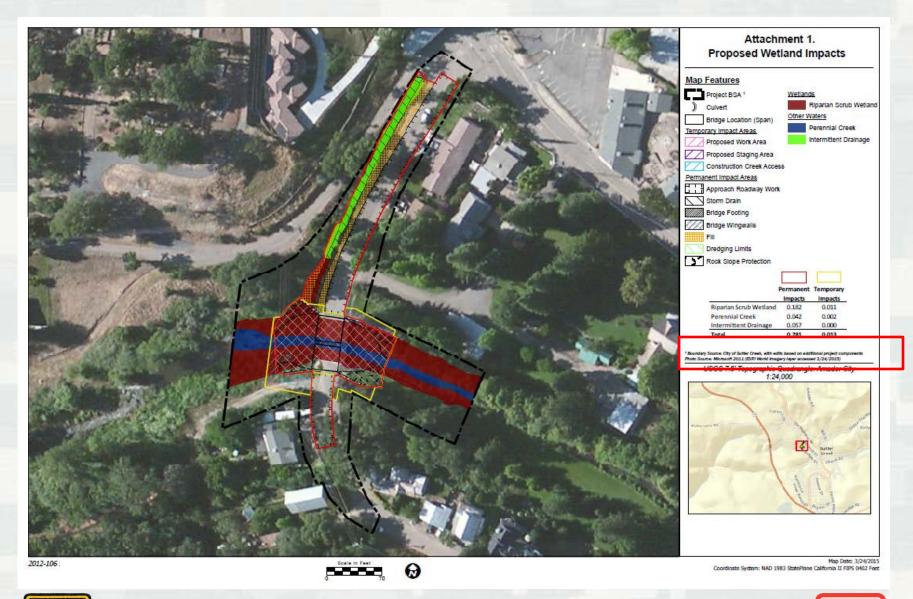




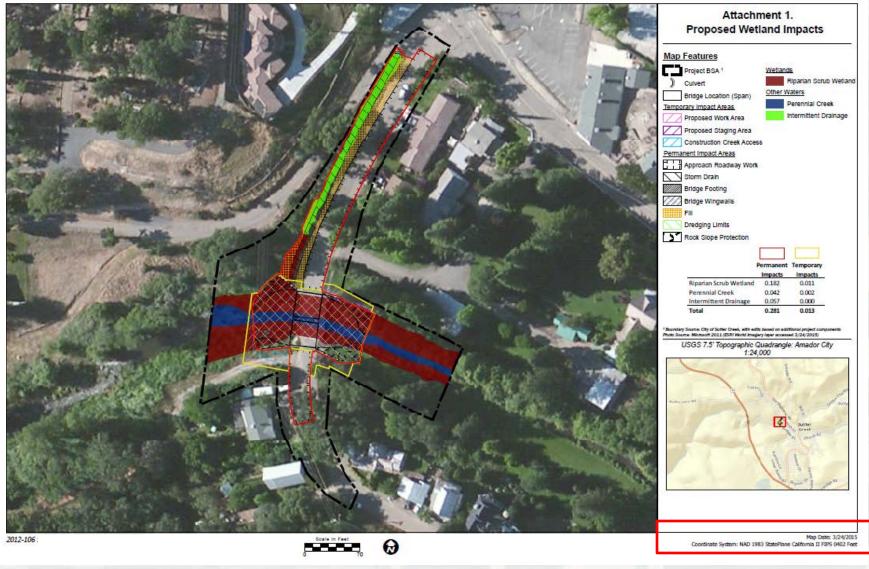


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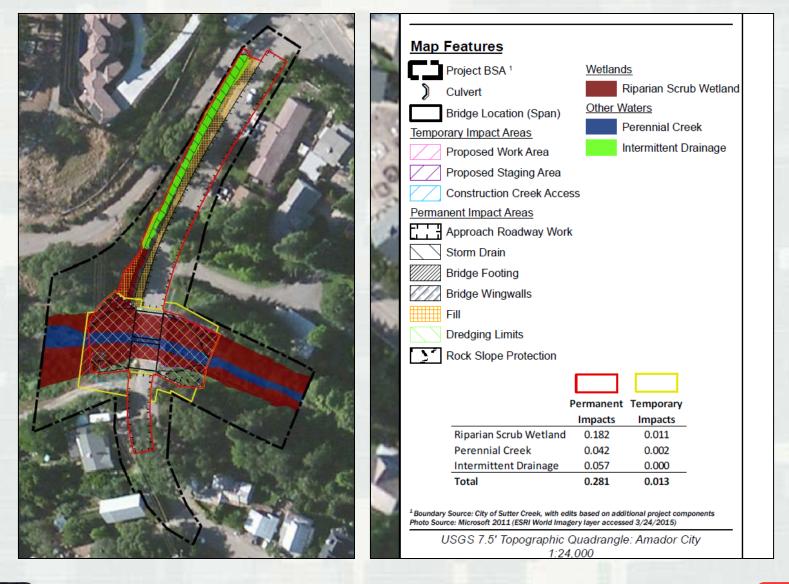
















## **Specific Standards**

### Post-Construction Drawings (As-Builts)

- Should be the same size and spatial alignment as the authorized grading plans
- Any deviations from fills and structures authorized as part of an approved pre-construction map must be indicated.





# **Specific Standards**

### Delineation Maps

- Survey area boundary should be clearly symbolized, and should include all potential waters of the U.S.
- Location and extent of all areas meeting the three wetland criteria, and/or having an Ordinary High Water Mark, must be shown on the map, even if area is a potential "Preamble Water" (e.g., upland ditch)
- Each type of boundary (e.g., OHWM, wetland, high tide line) must be clearly symbolized and differentiated
- Each line or polygon representing a potential water of the U.S. must be labeled with a unique name





### Delineation Maps

 Show locations of all data points, labeled according to their corresponding data sheets

A wetland boundary should be based on at least one set of paired data points; one data point within the proposed wetland boundary, and one immediately outside of it.



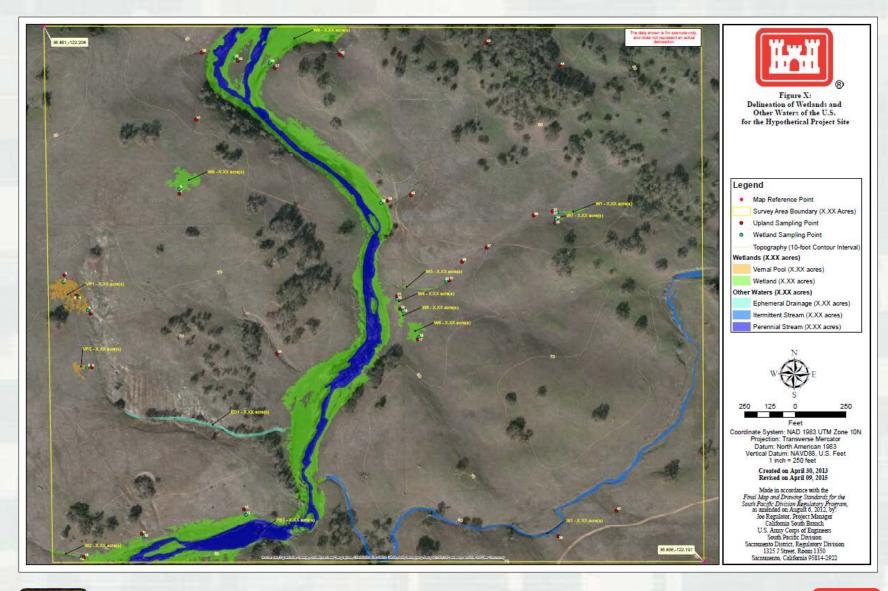


## Delineation Maps

- Identify the Ordinary High Water Mark (OHWM)
  - Show representative widths between the OHWMs on opposing banks using a transect line labeled with the width in feet
  - An average width may be acceptable for uniform channel reaches
  - Cross section may be required by the PM. If required, indicate the OHWM elevation
- If there are tidal areas within the survey area, identify location and elevation of Mean High Water and High Tide Line on all maps and cross sections

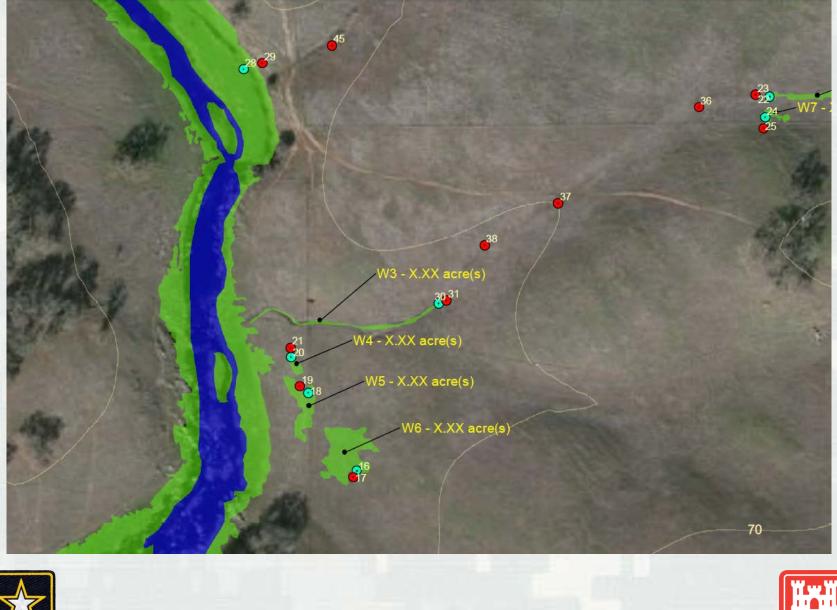
















### Delineation Maps

How do the Map and Drawing Standards relate to the Minimum Standards for Acceptance of Preliminary Wetlands Delineations?

Nearly all map-related requirements of the "Minimum Standards" are covered by the Map and Drawing Standards, and often in greater detail

- The "Minimum Standards" differs in that
  - It requires a table on the delineation map itself that contains the names and acreages of all
    potential waters of the U.S. within the survey area
  - It requires the inclusion of soil maps in the delineation report





## Mitigation Plans and Long-Term Preservation Maps

- Mitigation boundaries must be clearly differentiated based on mitigation type
  - Establishment
  - Re-establishment
  - Rehabilitation
  - Enhancement
  - Preservation
- Current Map and Drawing Standards ask that boundaries be differentiated using different kinds of dotted and dashed lines.





## Mitigation Plans and Long-Term Preservation Maps

- Mitigation boundaries must be clearly differentiated based on mitigation type
  - Establishment
  - Re-establishment
  - Rehabilitation
  - Enhancement
  - Preservation
- Current Map and Drawing Standards ask that boundaries be differentiated using different kinds of dotted and dashed lines.
- This will be changing in the Updated Map and Drawing Standards!



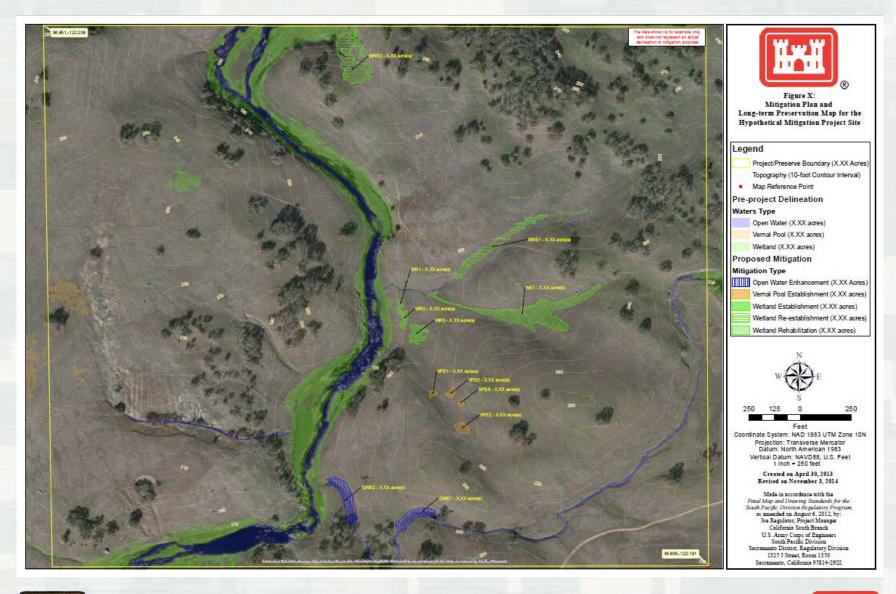


## Mitigation Plans and Long-Term Preservation Maps

- Updated Standards will require mitigation areas to be differentiated by using different hatched fill symbols, rather than by different border line types
- All mitigation sites and Long-Term Preservation boundaries must be clearly labeled with a unique name
- Locations of mitigation sites must be shown relative to other landscape features and habitat types (e.g., riparian corridor, wetland complex, etc.)

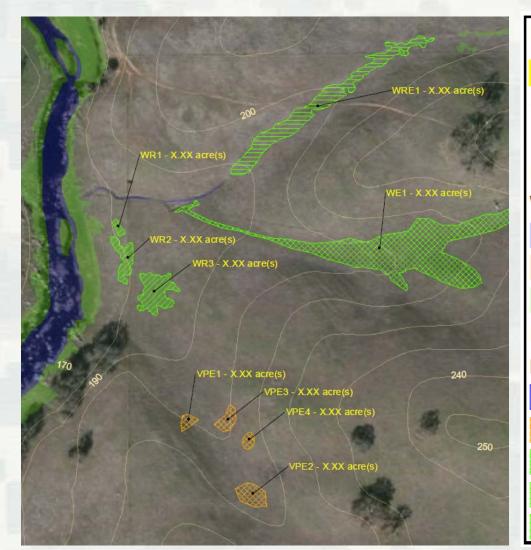












### Legend

Project/Preserve Boundary (X.XX Acres)

Topography (10-foot Contour Interval)

Map Reference Point

## Pre-project Delineation

### Waters Type

Open Water (X.XX acres)

Vernal Pool (X.XX acres)

Wetland (X.XX acres)

# Proposed Mitigation

#### Mitigation Type

- Open Water Enhancement (X.XX Acres)
- Vernal Pool Establishment (X.XX acres)
- Wetland Establishment (X.XX acres)
- Wetland Re-establishment (X.XX acres)

Wetland Rehabilitation (X.XX acres)





## Mitigation Monitoring Report Maps

- Ground photographs included in reports must be accompanied by a map of photo points
- Each photo point must be annotated with a number and an arrow indicating the compass direction in which it was taken
- The photo itself should have a legend indicating photo number, the compass direction in which it was taken, the photo's geographic coordinates, and a brief explanation of the photo's relevance





- Mitigation Monitoring Report Maps
  - Each discrete mitigation site must be shown on the map
  - Each site should be annotated or symbolized to indicate the mitigation type and the target habitat type
  - Any sampling presented in the monitoring report should be shown on the map









