



Napa County Flood Control and Water Conservation District

DONALD G. RIDENHOUR, P.E.
DISTRICT ENGINEER

REGULAR MEETING AGENDA

TECHNICAL ADVISORY PANEL

Wednesday
March 31, 2010
5:30 P.M.

804 FIRST STREET
NAPA, CA 94559

The Meeting Room is wheelchair accessible. Assistive listening devices and interpreters are available through the Clerk of the Board of the Napa County Board of Supervisors. Requests for disability related modifications or accommodations, aids or services may be made to the Clerk of the Board's office no less than 72 hours prior to the meeting date by contacting (707) 253-4580 (253-6088TDD).

- I. Call to Order; Roll Call.
- II. **Public Comment – In this time period, anyone may comment to the Panel regarding any subject over which the Panel has jurisdiction but which is *not* on today's agenda or request consideration to place an item on a future agenda. Time limitations will be three minutes per speaker. No action will be taken by the Panel as a result of any item presented at this time. Agenda items will be considered in the following order: 1) Staff Report; 2) Public Comment; 3) Panel Discussion/Action.**
- III. Approve Minutes of the January 27, 2010 Regular Meeting.
- IV. Review of Design Plans for Main Street Boat Dock Improvement Project and Possible Finding of Consistency.
- V. Agenda Items for Future Meetings.
- VI. General Comments from the Panel. (This is an opportunity for Panel members to informally discuss items and ask questions.)
- VII. Confirm Next Meeting Date of April 28, 2010.
- VIII. Adjourn.



Agenda Item III.

**TECHNICAL ADVISORY PANEL
AGENDA REPORT**

DATE: March 31, 2010

SUBJECT: Approve Minutes of the January 27, 2010 Regular Meeting

**MINUTES OF THE
NAPA COUNTY TECHNICAL ADVISORY PANEL
REGULAR MEETING**

❖
Wednesday, January 27, 2010
5:30 p.m.

I. Roll Call; Call to Order.

The Napa County Technical Advisory Panel met during regular session on Wednesday, January 27, 2010 at 5:30 p.m. with the following members present: Phill Blake; Chairperson Rolf Ohlemutz; Dennis Scherzinger; Bob Zlomke; Bill Bennett; Barbara Stafford; Dennis Rinehart; and Vice-Chairperson Chip Bouril. Chris Craiker was excused.

II. Election of Officers.

The Panel elected Chip Bouril as Chairperson and Bob Zlomke as Vice-Chairperson for the 2010 calendar year.

BB PB CB CC RO DR DS BS BZ
X

III. Adoption of 2010 Meeting Calendar.
Calendar adopted as presented.

BB PB CB CC RO DR DS BS BZ
X

IV. Public Comment.

Linda Kerr, representing In Harms Way, mentioned she, Anita Howe, and In Harms Way chose the full cutoff lighting for the Behrens Street Bridge design and that this type of lighting would not add to light pollution in the area. Julie Lucido, Project Manager, thanked In Harms Way for their research and coming up with a good solution that was in line with the choices presented to the Panel.

V. Approve Minutes of the December 9, 2009 Regular Meeting.
Minutes approved.

BB PB CB CC RO DR DS BS BZ
X

VI. Review of Technical Advisory Panel Documents.

Julie Lucido, Project Manager, went over highlights of the Measure A Ordinance, the Panel's Guidelines and Bylaws, Napa Municipal Code 17.52.300 (Napa River/Napa Creek Project Requirements), and submittal requirements for Waiver Requests. The item was opened for discussion. Rob Martin, Deputy District Counsel, mentioned inconsistencies in the guidelines concerning resource agency coordination and City of Napa design team coordination and suggested having the guidelines revised. It was also suggested to have a refresher on the Brown Act as a future agenda item.

- VII. Flood Project Status Report and Update.
Julie Lucido, Project Manager, discussed the construction and street closure schedule for the Bypass Rail Bridge Relocation Project (First Street east of Soscol Avenue to McKinstry Street closed to vehicular traffic from March 15 through July 31, 2010 and again from February 28 through March 12, 2011; and Third Street east of Soscol Avenue to Burnell Street closed to vehicular traffic from August 16 through December 15, 2010) and the schedule for the finalized plans, bid, and award process of the Napa Creek Box Culverts and Flood Terrace Project (final plans to the Army Corps in March, bid advertisement expected around March 12, and awarding of the construction contract targeted for the end of May 2010). The item was opened for discussion.
- VIII. Agenda Items for Future Meetings.
- **Upper Reach Trail Issues – North of Oxbow/Bypass.**
 - **Dock Extension from City of Napa.**
 - **Review of Brown Act.**
- IX. General Comments from the Panel. (This is an opportunity for Panel members to informally discuss items and ask questions.)
The Panel and staff discussed the possibility of the next meeting being cancelled contingent on lack of business.
- X. Confirm Next Meeting Date of February 24, 2010.
Meeting date confirmed.
- XI. Adjourn.
Adjourned to the next Regular Meeting of the Technical Advisory Panel on Wednesday, February 24, 2010, at 5:30 p.m. The meeting will be held at the Flood District Conference Room.

CHIP BOURIL
Chairperson

ATTEST:

JULIE LUCIDO
Secretary

By: GREG MORGAN
Supervising Office Assistant

KEY
Vote: BB = Bill Bennett; PB = Phill Blake; CB = Chip Bouril; CC = Chris Craiker RO = Rolf Ohlemutz;
DR = Dennis Rinehart; DS = Dennis Scherzinger; BS = Barbara Stafford; BZ = Bob Zlomke
Notations under Vote: N = No; X = Excused; A = Abstained



**TECHNICAL ADVISORY PANEL
AGENDA REPORT**

DATE: March 31, 2010

SUBJECT: Review of Design Plans for Main Street Landing Boat Dock Improvement Project and Possible Finding of Consistency

STAFF: Julie Lucido, Project Manager

DISCUSSION:

The City of Napa's conceptual plans and details for the Main Street Landing Boat Dock (previously referred to as the Fourth Street Boat Dock) were presented to the Panel for their review on April 27, 2005. A finding of consistency with the intent of the General Design Memorandum and Community Coalition Plan was made by the Panel on the conceptual level design plans.

The Flood Project's Environmental Impact Report documents that the Main Street dock is to be accommodated by the Project. In 2005, the existing dock was removed by the City of Napa to allow for the Hatt to First Street Floodwall and Promenade construction as part of the Flood Project. The Hatt to First Street design included an opening in the lower wall to provide access to this replacement dock.

The proposed dock replacement is larger than the original dock facility that was removed from this site. The plans and hydraulic analysis for the dock replacement were submitted to the Army Corps of Engineers' Napa Project design team for review. The Corps reviewed the plans and hydraulic analysis provided by the City of Napa and additionally performed an internal hydraulic analysis to ensure the boat dock did not adversely affect the Flood Project when analyzed using the Corps' hydraulic procedures. The water surface elevations from the Corps' analysis were compared to the constructed flood wall heights for the Hatt to First reach and the designed floodwall heights upstream of the dock including the Oxbow/Bypass contract. The Corps' hydraulic review found the dock replacement design is acceptable.

Attached for the Panel's review are a memo from the City of Napa and the final plans for the Main Street Landing Boat Dock. Cassandra Walker, Economic Development Director and Robin Klingbeil, Project Coordinator, City of Napa Economic and Redevelopment and their design consultant will be present at the meeting to present the plans and answer questions. The construction of the dock is expected to begin in June of this year.

REQUESTED ACTION:

Review final plans for the Main Street Landing Boat Dock Improvement Project and make a finding of consistency with the intent of the General Design Memorandum and Community Coalition Plan.



CITY of NAPA

TO: Technical Advisory Panel
FROM: Cassandra L. Walker *Cassandra Walker*
Economic Development Director, City of Napa
DATE: March 23, 2010
RE: Main Street Dock Plans for T.A. P. Review 3/31/2010

The City of Napa submits the attached plans for the Main Street Dock replacement project. The proposed dock would replace the former wooden dock removed in 2006 whose design and access is no longer suitable due to the configuration of the new promenade and floodwalls at the site. In 2005, the TAP approved a new dock replacement design. After working with the ACE and other regional agencies this plan was updated to respond to comments, including the addition of some public safety features. The revised dock plans have been designed as a larger public amenity, to aesthetically complement the adjacent riverfront improvements, to provide year-round usage, to enhance security and safety, and to include protective measures for more efficient maintenance. The primary elements of the revised project are summarized as follows:

- ◆ Install floating concrete dock units to create a dock system 226 feet in length (16-foot wide, 70-foot long, and then 10-foot wide, 156-foot long)
- ◆ Install aluminum gangway system compliant with American with Disabilities Act, including a hinged gangway, (4-feet by 51-feet), platform (6-feet by 10-feet), and fixed ramp (4-feet by 51-feet)
- ◆ Install sheet piles, five new steel pipe dock anchor piles and four new steel pipe gangway hoist piles
- ◆ Install 24 dock lights (with quick disconnect) at top and bottom of gangway and install 7 fixed ramp lights
- ◆ Install two electric winches to the top of the gangway hoist piles switches to be mounted in a locked box behind the upper flood wall.
- ◆ Install four 3-pile dolphins and install a floating debris boom to the dolphins
- ◆ Perform a maximum of 2,000 cubic yards of localized dredging in the vicinity of the new dock.

City Engineering staff and the City's environmental permitting consultant will attend the meeting to discuss the plans and details and answer any questions you may have.

The City is currently in process of acquiring regulatory permits, and plans to begin the project during the 2010 in-water work period.

Thank you for your consideration of this project.

GENERAL NOTES:

1. ALL WORKMANSHIP AND MATERIALS FOR IMPROVEMENTS SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE CITY OF NAPA, DATED JULY 2001 (UPDATED MAY 2006), AND THE MAY EDITION OF THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS AND STANDARD PLANS. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR BEING FAMILIAR WITH SAID DOCUMENTS AND SHALL HAVE COPIES OF BOTH DOCUMENTS AVAILABLE AT THE JOBSITE AT ALL TIMES. ALL WORK IS SUBJECT TO THE APPROVAL OF THE ENGINEER.
2. SITE PLAN DIMENSIONS, LAYOUTS, UTILITIES, AND FACILITIES ARE BASED ON TOPOGRAPHIC INFORMATION THAT WAS OBTAINED FROM DRAWINGS TITLED, "US ARMY CORPS OF ENGINEERS, SACRAMENTO DISTRICT, NAPA RIVER/NAPA CREEK FLOOD PROTECTION PROJECT, CONTRACT 2 WEST (BETWEEN HATT BUILDING & FIRST STREET), NAPA CALIFORNIA, PREPARED BY MGE ENGINEERING, INC., SHEETS 1-186, DATED 03/31/2005, DESIGN FILE NO: NA-25-030. BATHYMETRY AND SUPPLEMENTAL BUILDING LOCATIONS ARE BASED ON A SURVEY CONDUCTED FOR THE CITY ON MARCH 9, 2009 BY CINQUINI & PASSARINO, INC. EXISTING SITE CONDITIONS MAY VARY FROM THOSE SHOWN ON THESE PLANS DUE TO, BUT NOT LIMITED TO, RECENT FLOOD PROTECTION CONSTRUCTION, RIVER FLOWS AND EROSION, TIDAL INFLUENCES, AND POTENTIAL ERRORS IN ORIGINAL DATA. CONTRACTOR SHALL VERIFY SITE CONDITIONS THAT AFFECT THE WORK SHOWN ON THESE PLANS AND IDENTIFY TO THE CITY THOSE INCONSISTENCIES THAT ARE FOUND PRIOR TO CONSTRUCTING IMPROVEMENTS.
3. INSPECTION SHALL BE PERFORMED BY THE CITY OF NAPA. REQUESTS FOR INSPECTION SHALL BE GIVEN A MINIMUM 24 HOURS IN ADVANCE OR AS OTHERWISE REQUIRED IN THE SPECIAL PROVISIONS.
4. THE CONTRACTOR SHALL NOTE THE REQUIREMENTS OF SECTION 5-1.06, "SUPERINTENDENCE", OF THE CALTRANS STANDARD SPECIFICATIONS.
5. CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT IN WRITING AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
6. ALL TRAFFIC CONTROL REQUIRED FOR CONSTRUCTION ACTIVITY SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE PROJECT SPECIAL PROVISIONS. A TRAFFIC CONTROL PLAN SHALL PROVIDE FOR VEHICULAR AND PEDESTRIAN MOVEMENTS AND BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE CONSTRUCTION BEGINS. THE CONTRACTOR SHALL HAVE AN APPROVED TRAFFIC CONTROL PLAN ON THE JOB SITE AT ALL TIMES.
7. A WATER POLLUTION CONTROL PLAN CONFORMING TO THE PROJECT SPECIAL PROVISIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE CONSTRUCTION BEGINS. THE CONTRACTOR SHALL HAVE AN APPROVED WATER POLLUTION CONTROL PLAN ON THE JOBSITE AT ALL TIMES.
8. ALL GRADING OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER TO PRECLUDE WIND BLOWN DIRT AND DUST AND RELATED DAMAGE TO NEIGHBORING PROPERTIES. SUFFICIENT WATERING TO CONTROL DUST IS REQUIRED AT ALL TIMES. CONTRACTOR SHALL ASSUME ALL LIABILITY FOR CLAIMS RELATED TO WIND BLOWN MATERIAL. IF DUST CONTROL IS INADEQUATE AS DETERMINED BY THE ENGINEER, THE CONSTRUCTION WORK SHALL BE TERMINATED UNTIL CORRECTIVE MEASURES ARE TAKEN.
9. SHOULD THE CONTRACTOR OR ANY SUBCONTRACTOR FIND ANY DEFICIENCIES, ERRORS, CONFLICTS OR OMISSIONS IN THESE PLANS AND SPECIFICATIONS OR SHOULD THERE BE A DOUBT AS TO THEIR MEANING OR INTENT, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY BEFORE THE CONTRACTOR PROGRESSES WITH THE WORK. THE ENGINEER WILL PROVIDE WRITTEN CLARIFICATION. ATTENTION IS DIRECTED TO THE SECTION TITLED "DIFFERING SITE CONDITIONS" OF THE SPECIAL PROVISIONS.
10. CONTRACTOR SHALL HANDLE AND DISPOSE OF ALL TOXIC, CONTAMINATED AND/OR ASBESTOS MATERIALS IN ACCORDANCE WITH PRESCRIBED LOCAL, STATE AND FEDERAL REGULATIONS.
11. IN ORDER TO COMPLETE THE UTILITY WORK SHOWN ON THIS PLAN THE CONTRACTOR SHALL COORDINATE HIS/HER WORK WITH THE UTILITY COMPANIES FOR TIMELY INSTALLATION OF THE IMPROVEMENTS.
12. CONTRACTOR ASSUMES SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY DURING THE PROJECT AND NOT BE LIMITED TO NORMAL WORKING HOURS.
13. CONTRACTOR SHALL NOTIFY ALL PUBLIC AND/OR PRIVATE UTILITY COMPANIES 48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO EXISTING UTILITY LINES.
14. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (U.S.A.) AT 800-226-2600, THE CITY WATER DEPARTMENT AT (707) 257-9521, AND THE CITY ELECTRICAL DIVISION AT (707) 257-9588 OF PROPOSED CONSTRUCTION ACTIVITY PRIOR TO THE START OF ANY CONSTRUCTION.
15. CONTRACTOR SHALL PROVIDE EMERGENCY TELEPHONE NUMBERS TO THE POLICE, FIRE, AND PUBLIC WORKS DEPARTMENTS AND KEEP THEM INFORMED DAILY REGARDING STREETS UNDER CONSTRUCTION AND DETOURS. DETOURS SHALL CONFORM TO THE APPROVED TRAFFIC CONTROL PLAN AND SHALL NOT BE PERMITTED UNLESS APPROVED IN WRITING BY THE ENGINEER.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING UTILITIES IN THE FIELD. CONTRACTOR SHALL POTHOLE ALL CROSSING UTILITIES PRIOR TO INSTALLATION OF ANY UNDERGROUND IMPROVEMENTS. THE LOCATION OF UTILITIES AND UNDERGROUND FACILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.
17. CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT BARRICADES TO PROVIDE FOR SAFETY OF THE GENERAL PUBLIC.
18. ALL MATERIAL SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED
19. CONTRACTOR SHALL CONFORM TO EXISTING STREET, SURROUNDING LANDSCAPE, AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, CUTTERS, SIDEWALKS, GRADING, ETC, AND TO AVOID ABRUPT OR APPARENT CHANGES IN GRADE OR CROSS SLOPE, LOW SPOTS OR POTENTIALLY HAZARDOUS CONDITIONS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS OF REPAIRING ANY INJURIES OR DAMAGE TO EXISTING UTILITIES AND/OR DAMAGE TO ANY IMPROVEMENTS ADJACENT TO THE WORK SITE, PRIVATE OR PUBLIC.
21. ALL SITES SHALL BE VISUALLY INSPECTED BY THE CONTRACTOR TO DETERMINE THE EXTENT OF CLEARING, GRUBBING AND GRADING WORK TO BE DONE.

CITY OF NAPA

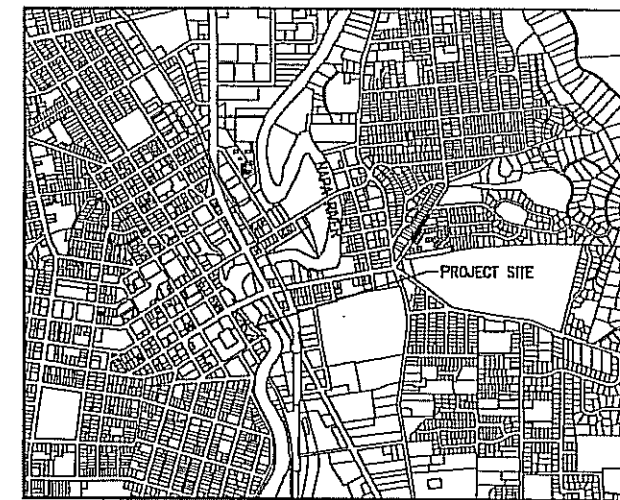
PUBLIC WORKS DEPARTMENT

PROJECT #26-5651-2-498-57

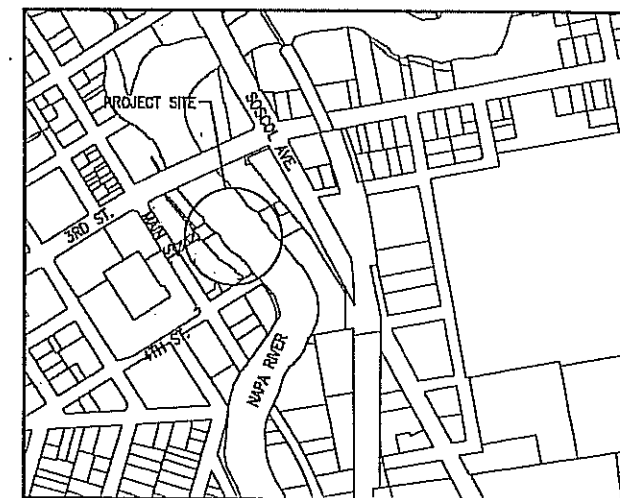
MS07PW001

MAIN STREET LANDING

BOAT DOCK IMPROVEMENT PROJECT



LOCATION MAP



VICINITY MAP



SHEET INDEX

- 1 - TITLE SHEET & GENERAL NOTES
- 2 - SITE PLAN & SURVEY CONTROL
- 3 - IMPROVEMENT PLANS
- 4 - SECTIONS
- 5 - GANGWAY & GATE PLANS
- 6 - GANGWAY HOIST DETAILS
- 7 - CONCRETE DOCK & PILE PLAN
- 8 - CONCRETE DOCK DETAILS
- 9 - CONCRETE DOCK DETAILS
- 10 - GANGWAY PLAN & DETAILS
- 11 - FIXED RAMP PLAN
- 12 - DEBRIS BARRIER DETAILS
- 13 - DREDGING & SHEET PILE PLAN
- 14 - ELECTRICAL PLAN
- 15 - PHOTOMETRIC PLAN
- 16 - ONE LINE DIAGRAM, LIGHTING CONTROL DIAGRAM, & LIGHTING DETAIL
- 17 - ELECTRICAL DETAILS

CITY OF NAPA
PUBLIC WORKS DEPARTMENT



MAIN STREET BOAT DOCK IMPROVEMENTS
TITLE SHEET

REVISIONS			BENCHMARK	
NO.	DESCRIPTION	DATE	BY	DESCRIPTION
				ELEV. 14.38 NGVD79
				DESCRIPTION: 54-7
				CITY OF NAPA BRASS CAP

DRAWN BY: DATE:
 DESIGNED BY: DATE:
 CHECKED BY: DATE:



CITY OF NAPA
PUBLIC WORKS DEPARTMENT

Prepared by:

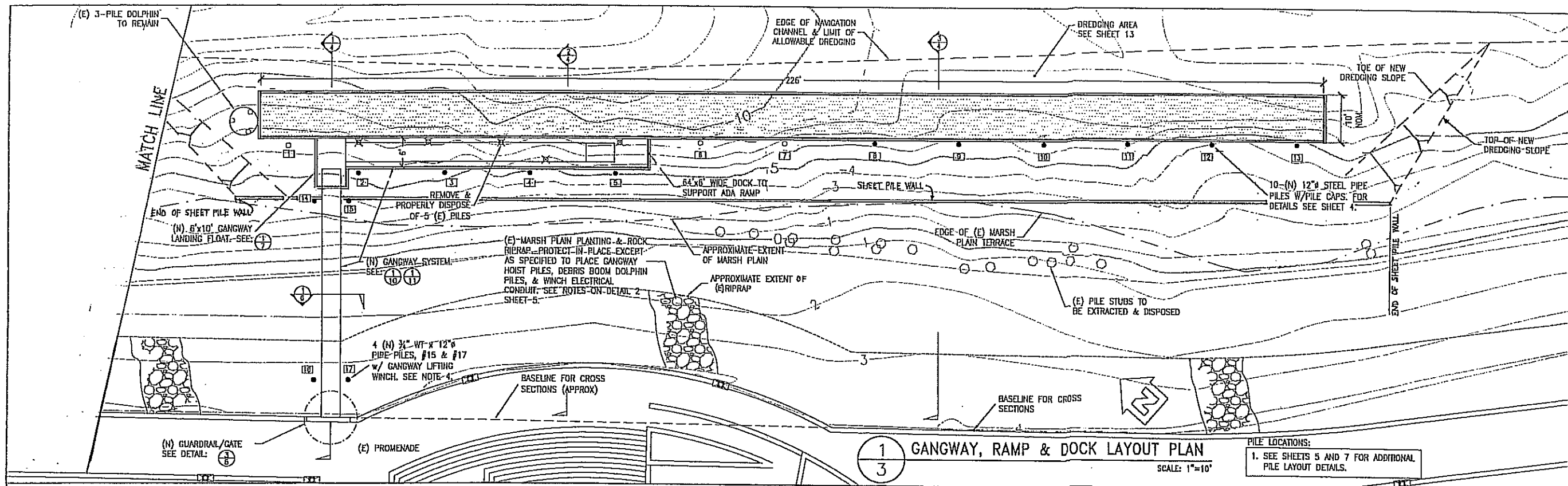
 358 DEL MARIN KEYS BLVD., SUITE D
 NAPA, CA 94940
 (415) 884-0727
 (415) 884-0733 (FAX)



APPROVED	
Jacques R. LaBichola, Public Works Director PCE 40834, Expires 03/31/11 APPROVAL RECOMMENDED	Date
Ready Public Works Director - Engineering	Date
Senior Civil Engineer, Engineering Division	Date
Senior Traffic Engineer, Transportation Division	Date
Senior Civil Engineer, Water Division	Date

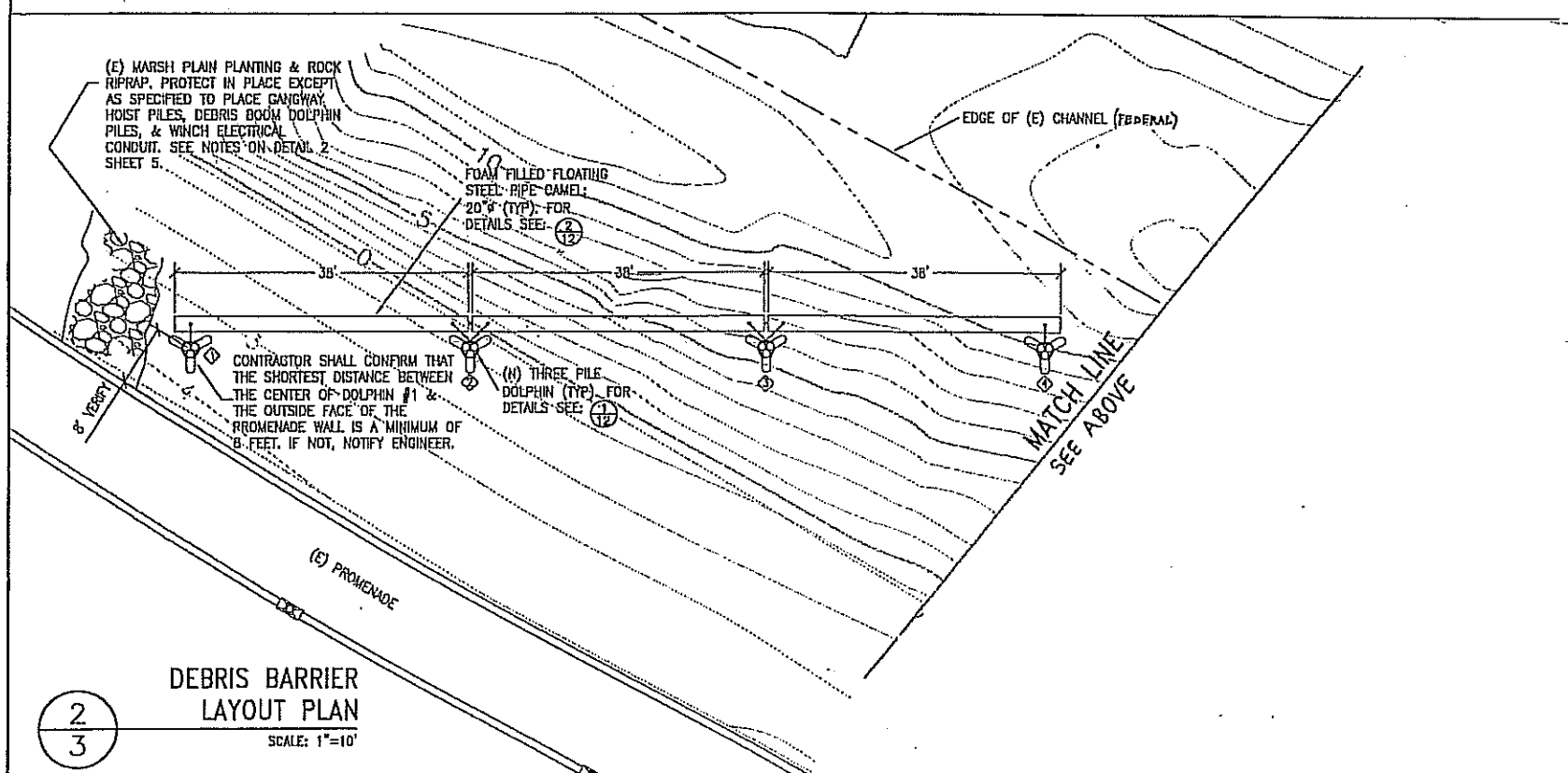
MAIN STREET BOAT DOCK IMPROVEMENTS
TITLE SHEET & GENERAL NOTES

SCALE	DATE
HORIZ. AS SHOWN	1-28-2010
VERT. AS SHOWN	CAD FILE
	DRAWING NO.
	09-025
SHEET NO.	1 of 17



1
3
GANGWAY, RAMP & DOCK LAYOUT PLAN
SCALE: 1"=10'

PILE LOCATIONS:
1. SEE SHEETS 5 AND 7 FOR ADDITIONAL PILE LAYOUT DETAILS.



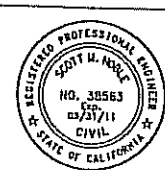
2
3
DEBRIS BARRIER LAYOUT PLAN
SCALE: 1"=10'

- PILE DEMOLITION / INSTALLATION NOTES:
- ELEVEN (11) EXISTING PILES: 3 DOCK ANCHOR PILES TO REMAIN IN PLACE & BE EXTENDED; 5 DOCK ANCHOR PILES TO BE EXTRACTED, AND PROPERLY DISPOSED OF; AND THREE (3) DOCK DOLPHIN PILES TO REMAIN IN PLACE. TWENTY-SIX (26) NEW STEEL PIPE PILES, 10 TO BE PLACED AS DOCK ANCHOR PILES; 4 TO BE PLACED AS GANGWAY HOIST PILES; 12 TO BE PLACED AS DEBRIS BARRIER DOLPHIN PILES.
 - NEW DOCK AND GANGWAY PILES SHALL BE INSTALLED AT THE COORDINATES LISTED ON SHEET 7 PRIOR TO THE INSTALLATION OF THE DOCKS. NEW DOLPHIN PILES SHALL BE INSTALLED AT THE COORDINATES LISTED ON SHEET 3.
 - PILES SHALL BE DRIVEN TO THE TOLERANCES GIVEN IN THE SPECIFICATIONS.
 - TWO (2) OF THE GANGWAY HOIST PILES AND DOLPHIN PILE #1 ARE LOCATED WITHIN AN EXISTING ROCK RIPRAP AREA ADJACENT TO THE FLOODWALL. CONTRACTOR SHALL TEMPORARILY REMOVE AND PLACE ON THEIR BARGE THE LEAST AMOUNT OF ROCK TO INSTALL THE PILES WHERE INDICATED. REPLACE ROCK AFTER PILES ARE INSTALLED. OTHER OBSTRUCTIONS MAY EXIST WITHIN THE PILE DRIVING AREA. CONTRACTOR SHALL REMOVE OBSTRUCTION(S) TO INSTALL PILES. OBSTRUCTIONS OTHER THAN ROCK RIPRAP SHALL BE REMOVED AND PROPERLY DISPOSED OF.
 - PRIOR TO PILE INSTALLATION, CONTRACTOR SHALL OBTAIN VERIFICATION FROM THE CITY THAT THE CITY HAS PHOTODOCUMENTED ALL ADJACENT EXISTING IMPROVEMENTS.
 - THE LOCATION OF THE HORIZONTAL COORDINATES OF THE CENTER OF THE DOLPHIN PILE "CLUSTERS" SHALL BE AS GIVEN IN THE FOLLOWING TABLE:
 - APPROXIMATELY 25 PILE STUBS TO BE EXTRACTED AND DISPOSED OF.
 - STEEL SHEET PILE RETAINING WALL.

- PILE KEY:
- INDICATES (E) PILE TO BE EXTENDED
 - ⊗ INDICATES (E) PILE TO BE EXTRACTED
 - (N) PILE
 - PILE NUMBER
 - ⊕ DOLPHIN PILE NUMBER

CENTER OF DOLPHIN LAYOUT TABLE		
DOLPHIN NO.	NORTHING	EASTING
⊕	1,870,410.6	6,460,242.2
⊕	1,870,397.0	6,480,275.8
⊕	1,870,382.5	6,480,311.5
⊕	1,870,360.9	6,460,345.1

SEE SHEET 7 FOR LAYOUT TABLE FOR DOCK & GANGWAY PILES

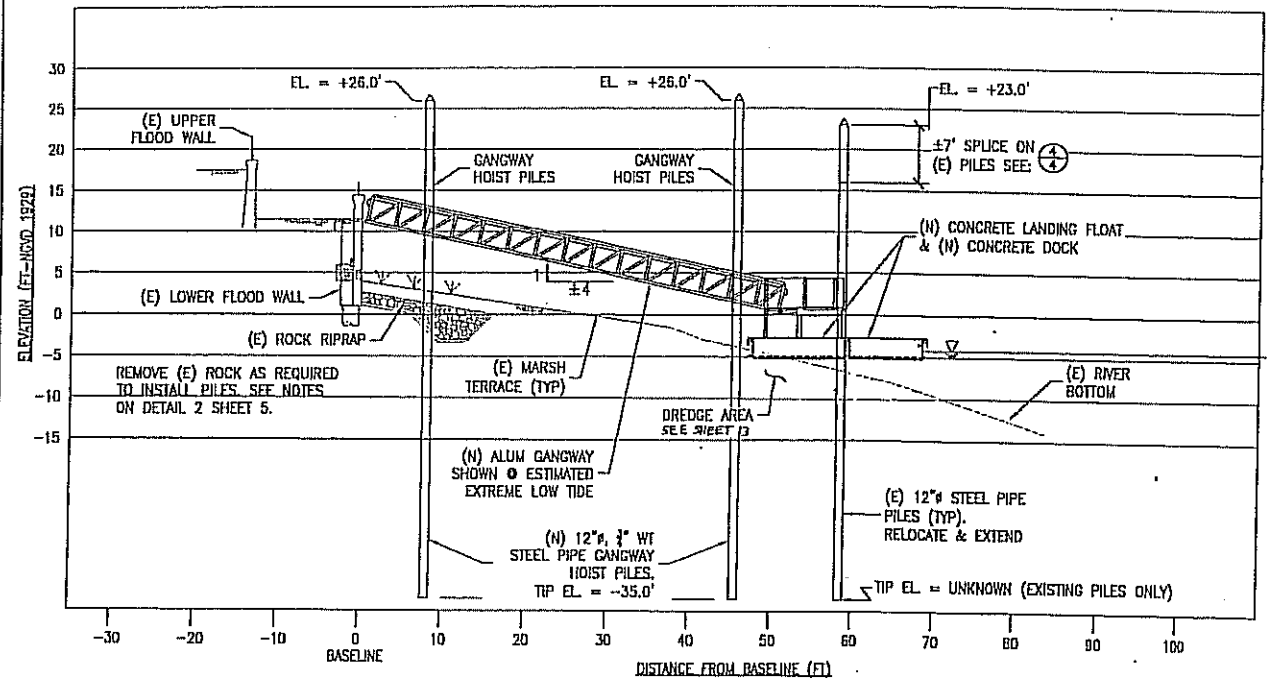


REVISIONS		BENCH MARK		DRAWN BY: <u>ARRAY</u> DATE: _____	
NO.	DESCRIPTION	DATE	BY	ELEV. 1438 NGVD	DESIGNED BY: <u>SUN</u> DATE: _____
					CHECKED BY: <u>SUN</u> DATE: _____

CITY OF NAPA
PUBLIC WORKS DEPARTMENT

MAIN STREET BOAT DOCK IMPROVEMENTS
IMPROVEMENT PLANS

SCALE: 1"=20'-20'10"	DATE: 1-28-2010
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SHEET NO. 3 OF 17	

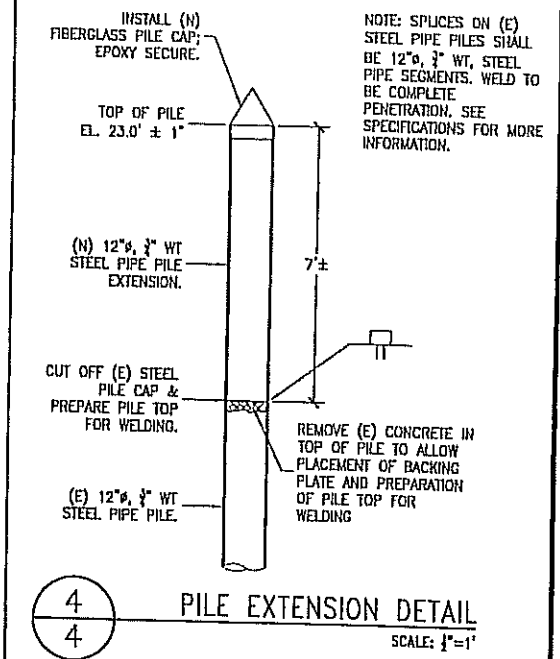


SECTION 1/4
SCALE: 1"=10'

WATER LEVEL DATA (Elevation, Feet)

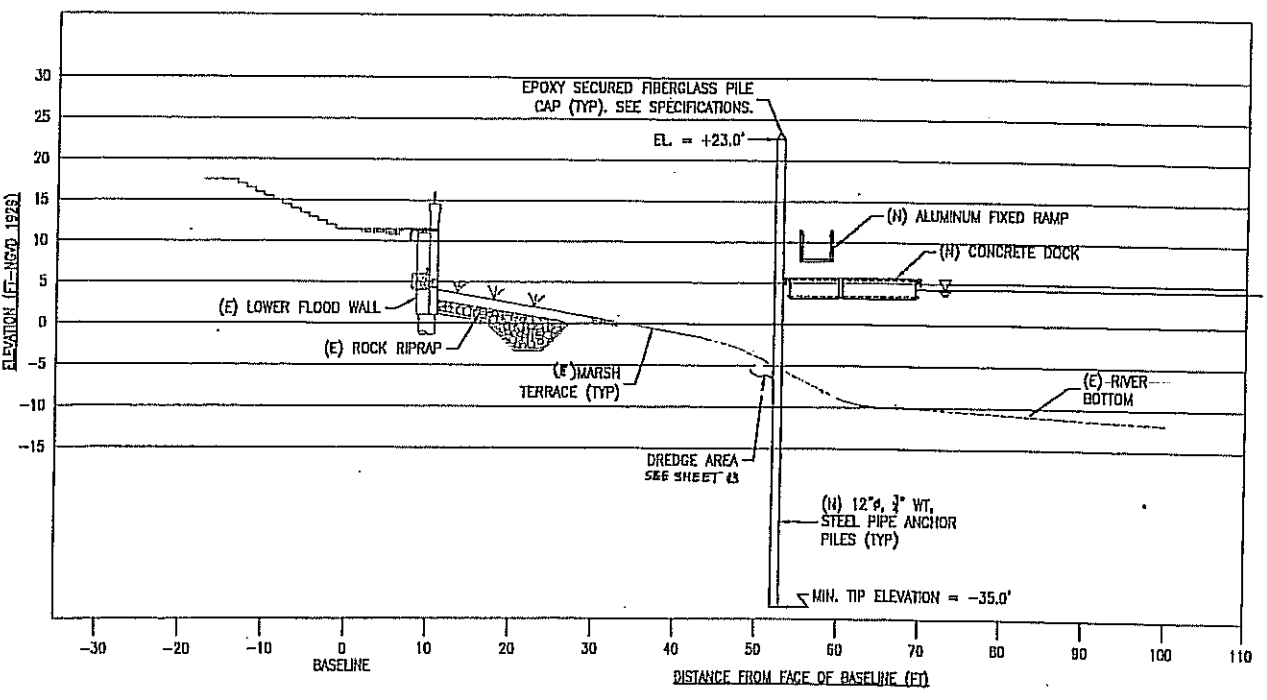
	MLLW	NGVD29
MEAN HIGHER HIGH WATER (MHHW)	6.86	4.04
MEAN HIGH WATER (MHW)	6.38	3.56
NATIONAL GEODETIC VERTICAL DATUM-1929	2.82	0.00
MEAN LOW WATER (MLW)	1.03	-1.79
NORTH AMERICAN VERTICAL DATUM-1988	0.20	-2.56
MEAN LOWER LOW WATER (MLLW)	0.00	-2.82
PREDICTED LOWEST TIDE 2010 (JUNE & JULY)	-1.4	-4.22

- NOTES:
- NOAA TIDE STATION 9415823 "NAPA, NAPA RIVER", EPOCH 1983-2001
 - NGVD29 DATUM BASED ON EPOCH 1983-2001 ADJUSTMENT BETWEEN MLLW & NAVD88 (.26') PLUS ADJUSTMENT BETWEEN NAVD88 & NGVD29 DETERMINED USING VERTCON (2.56')
 - CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE WATER LEVELS FOR CONSTRUCTION.

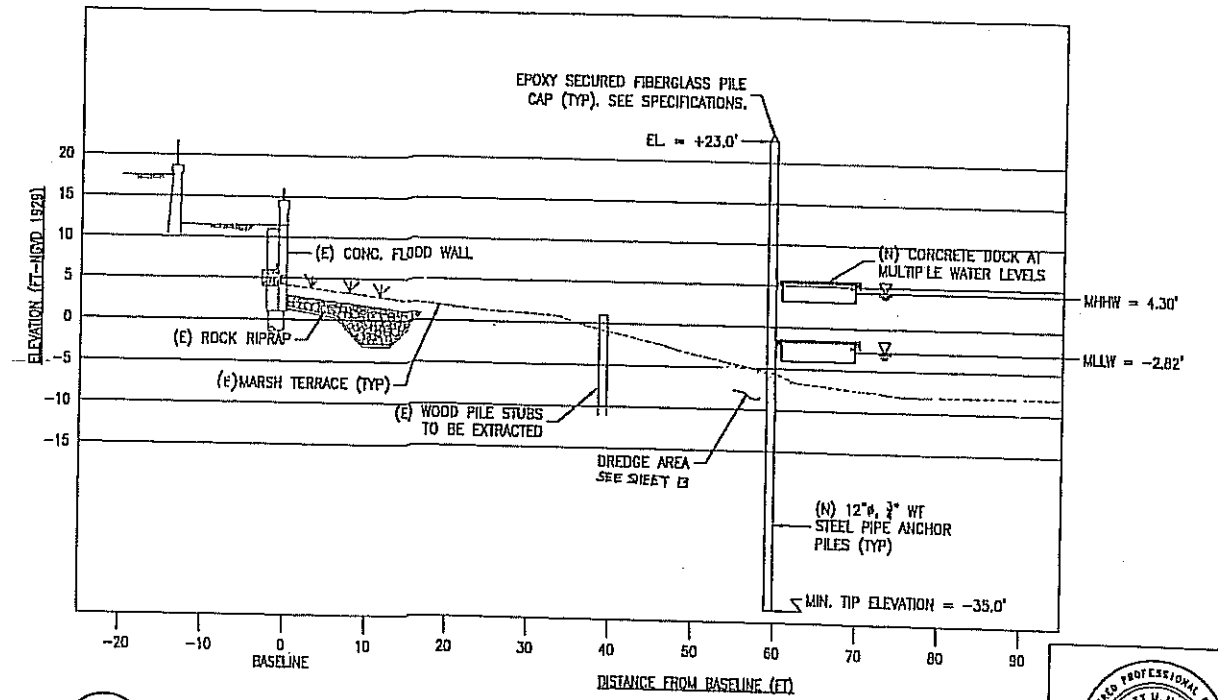


PILE EXTENSION DETAIL
SCALE: 1"=1'

SECTION VIEW NOTE
DOCK SYSTEMS SHOWN AT MULTIPLE WATER LEVELS.



SECTION 2/4
SCALE: 1"=10'



SECTION 3/4
SCALE: 1"=10'

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK

ELEV. (L.S.M. NGVD29)	DESCRIPTION

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 DESIGNED BY: SJW DATE: _____
 CHECKED BY: SJW DATE: _____

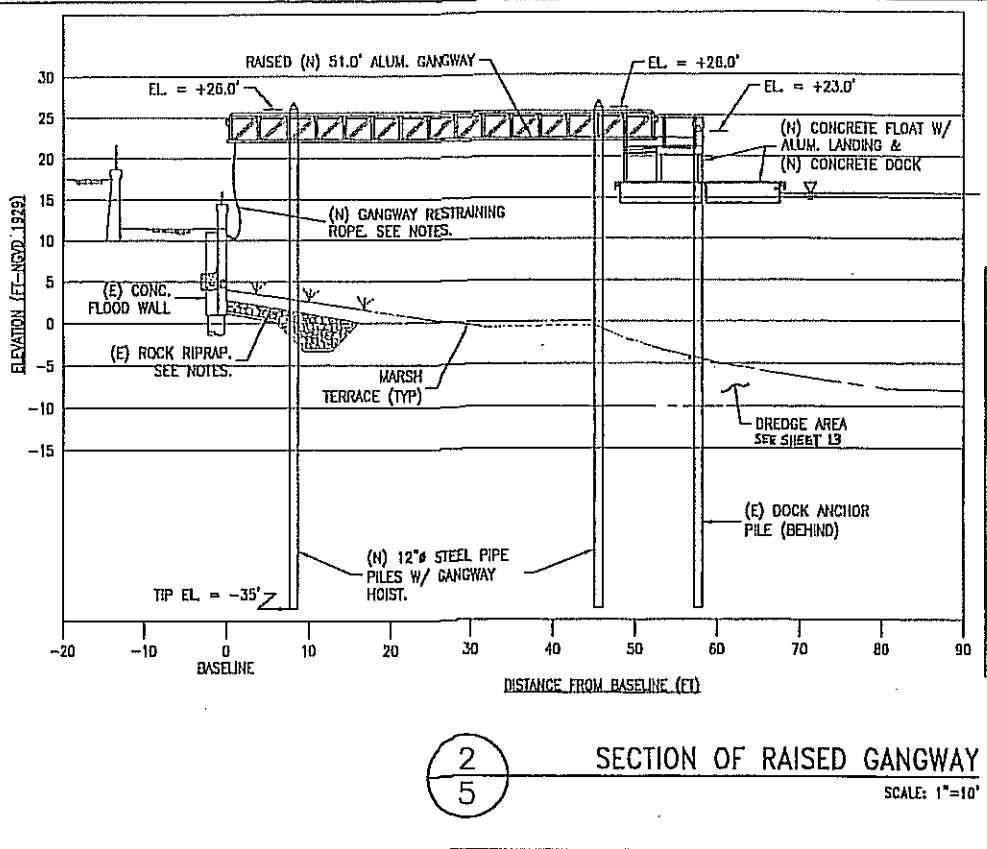
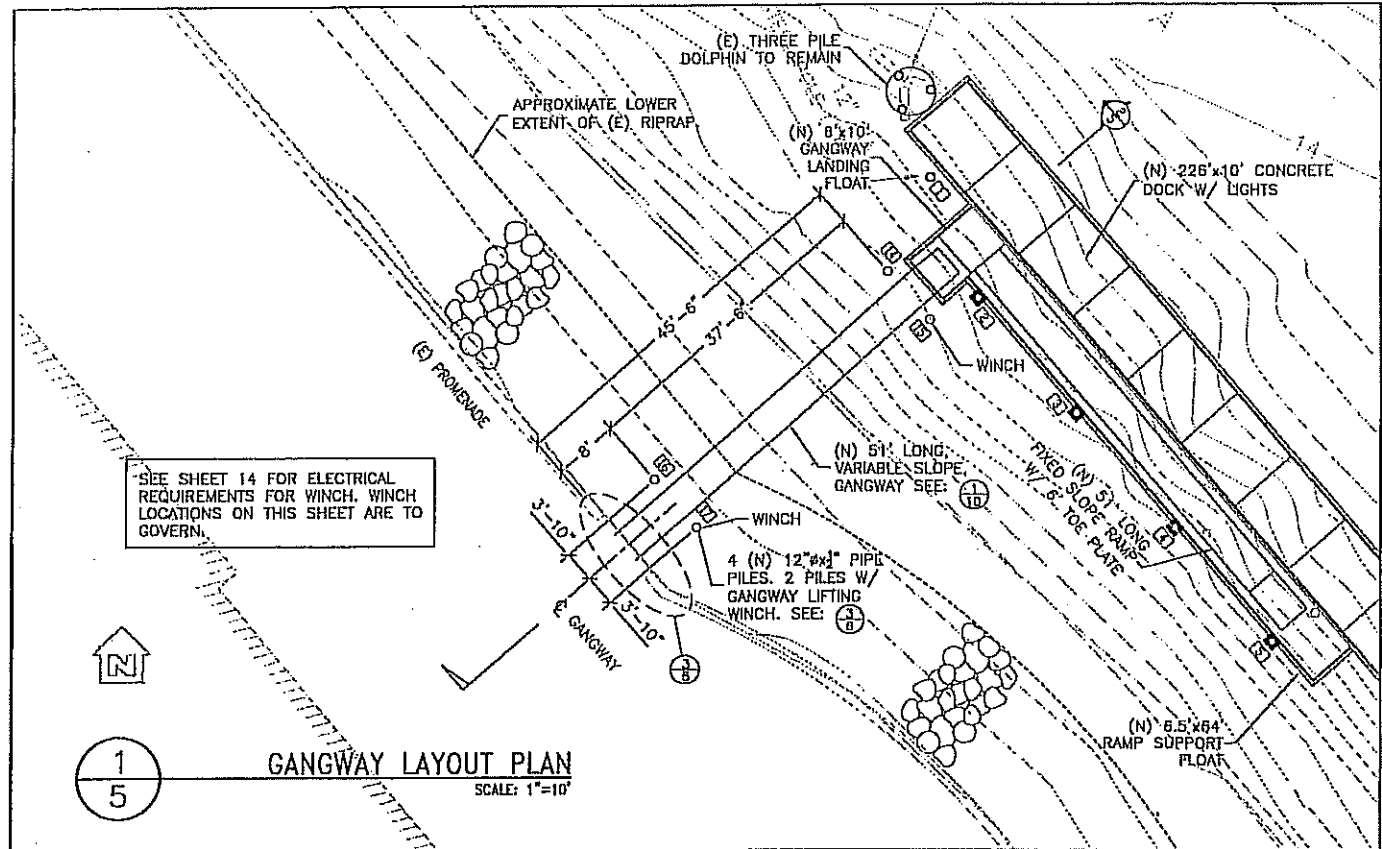
CITY OF NAPA
PUBLIC WORKS DEPARTMENT

MAIN STREET BOAT DOCK IMPROVEMENTS
SECTIONS

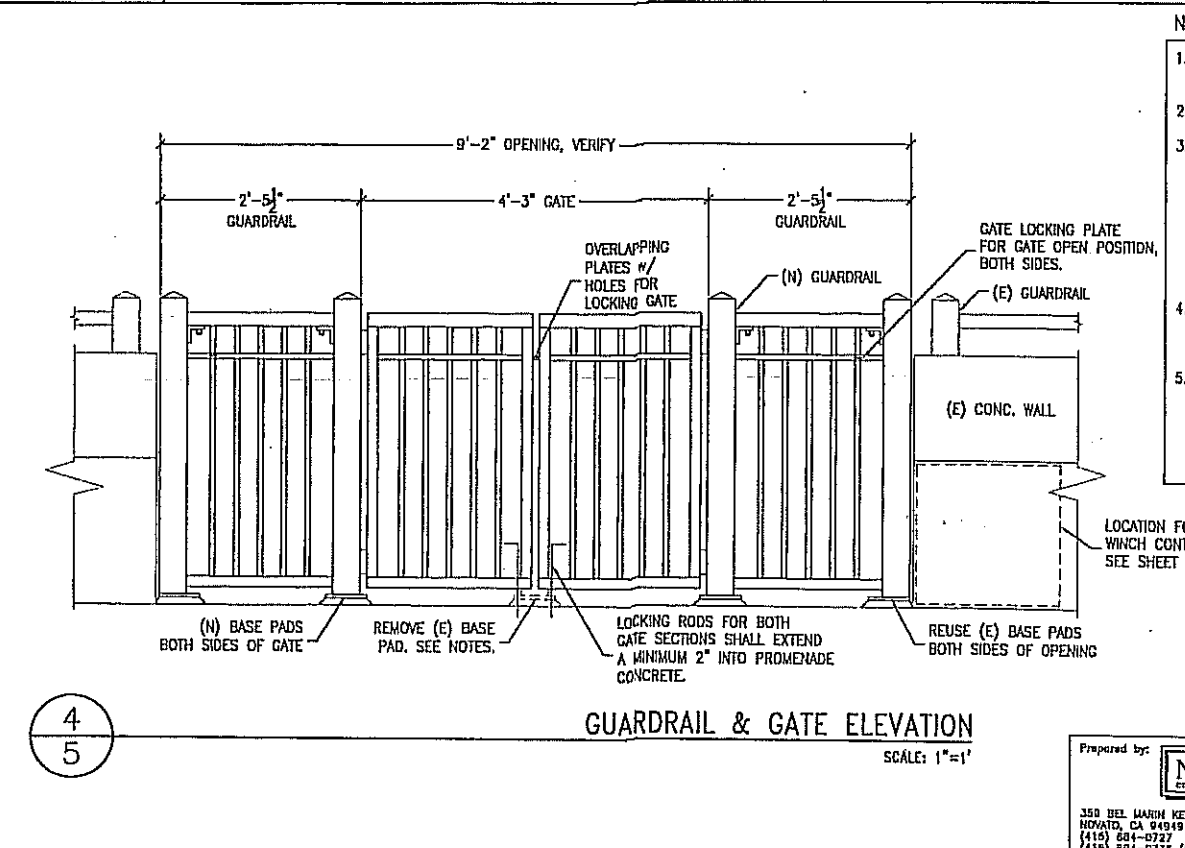
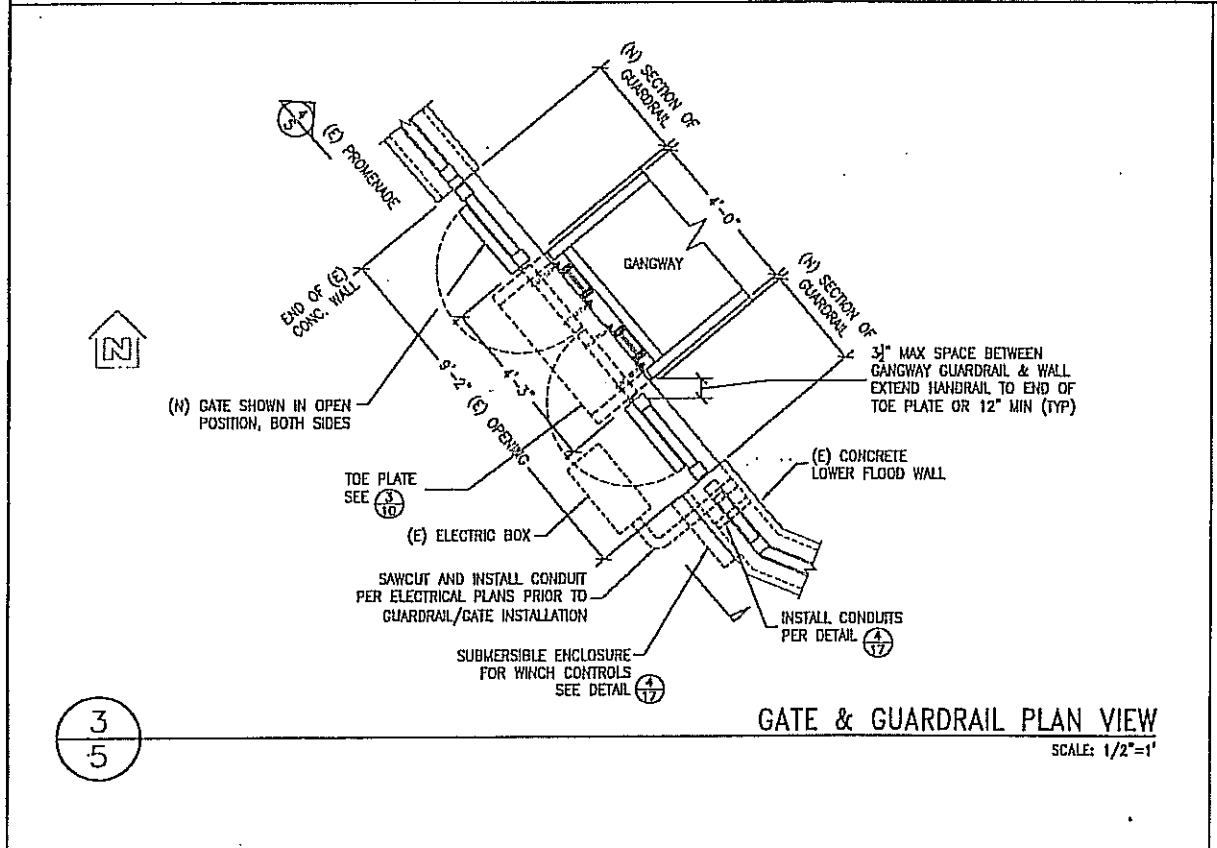
Prepared by: **NOBLE ENGINEERS, INC.**
 359 DEL MARIN KEYS BLVD., SUITE 9
 NOVATO, CA 94949
 (415) 884-0727
 (415) 884-0735 (FAX)

SCALE: AS SHOWN
 DATE: 1-28-2010
 CAD FILE:
 DRAWING NO. 09-025
 SHEET NO. 4 OF 17





- NOTES:
1. CONTRACTOR SHALL SUPPLY 2 GANGWAY RESTRAINING ROPES CONSISTING OF 3/8" POLYPROPYLENE LINE, 25' LONG. SPLICE A STAINLESS STEEL SNAP SHACKLE TO ONE END OF EACH LINE.
 2. CONTRACTOR SHALL REMOVE & STOCKPILE MARSH PLAN TOPSOIL & ROCK RIPRAP AS REQUIRED TO INSTALL GANGWAY HOIST PILES. REPLACE ROCK AROUND PILES AFTER INSTALLATION.
 3. CONTRACTOR SHALL REMOVE MINIMUM AMOUNT OF MARSH PLAN TOPSOIL FOR PLACEMENT OF GANGWAY HOIST ELECTRICAL CONDUIT (SEE SHEET 17).
 4. REMOVING & REPLACING MARSH PLAN TOPSOIL & ROCK RIPRAP SHALL BE PERFORMED WHEN THE WATER LEVEL IS BELOW THE AREA TO BE WORKED IN.
 5. CONTRACTOR SHALL SUBMIT FOR APPROVAL METHOD FOR REMOVING & REPLACING MARSH PLAN TOPSOIL & ROCK.




- NOTES
1. SALVAGE (E) GUARDRAIL AND DELIVER TO THE CITY CORPORATE YARD. NOTIFY ENGINEER 1 DAY PRIOR TO DELIVERY. VERIFY OPENING DIMENSIONS AND BASE PLATE PAD CONNECTION DETAILS.
 2. CONTRACTOR SHALL REMOVE THE CENTER (E) BASE PAD. DRILL OUT ANCHOR BOLTS A MINIMUM 2" AND FILL HOLE W/ NON-SHRINK GROUT UNLESS HOLES MATCH REQUIRED HOLES FOR NEW LOCKING RODS. IF HOLES MATCH THEN LEAVE HOLES AND COAT TOP OF REMAINING BOLT W/ A CORROSION PROTECTIVE COATING.
 3. CONTRACTOR SHALL FABRICATE A GUARDRAIL AND GATE THAT MATCHES THE EXISTING GATE MATERIALS, DESIGN AND COATING.
 4. SUBMIT SHOP DRAWINGS DETAILING THE GUARDRAIL AND GATE MATERIALS, COATING, FABRICATION, CONNECTION TO THE PROMENADE, AND LOCKING MECHANISMS IN BOTH THE OPEN AND CLOSED POSITION. CITY WILL FURNISH LOCKS.

REVISIONS		BENCH MARK	
NO.	DESCRIPTION	DATE	BY

DRAWN BY: <u>ARJAY</u>	DATE: _____
DESIGNED BY: <u>SLW</u>	DATE: _____
CHECKED BY: <u>SLW</u>	DATE: _____

CITY OF NAPA
PUBLIC WORKS DEPARTMENT

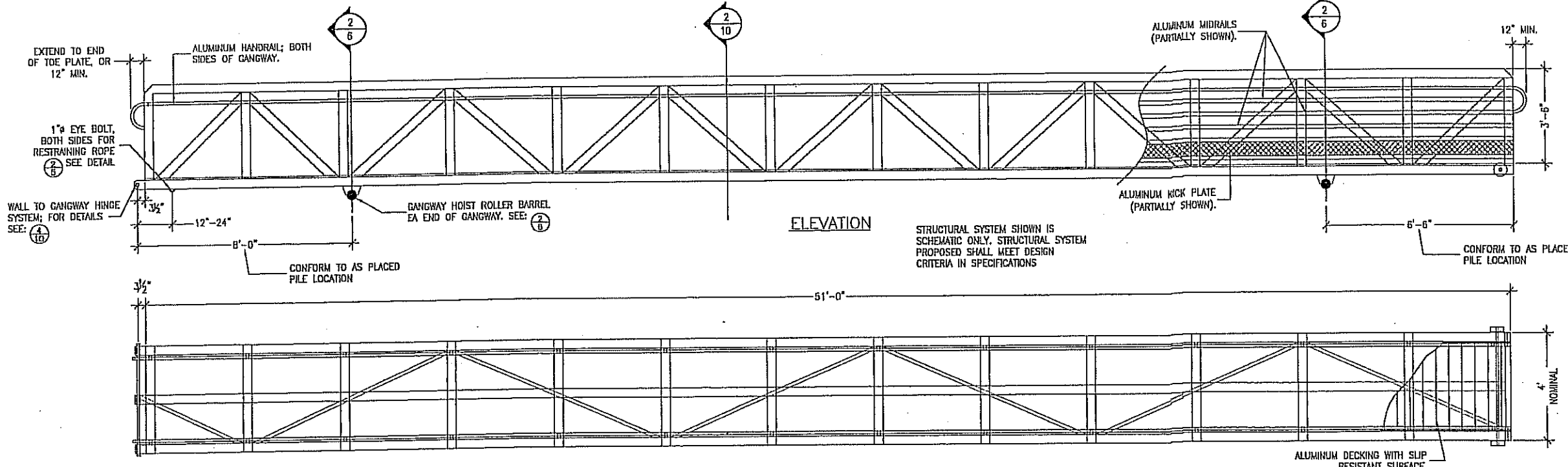


MAIN STREET BOAT DOCK IMPROVEMENTS
GANGWAY & GATE PLANS

Prepared by: **NOBLE CONSULTANTS, INC.**
350 DEL MARIN KEYS BLVD., SUITE 0
NOVATO, CA 94949
(415) 884-0727
(415) 884-0735 (FAX)

REGISTERED PROFESSIONAL ENGINEER
SPOTT W. NOBLE
NO. 38563
03/27/11
CIVIL
STATE OF CALIFORNIA

SCALE: 1"=10'
DATE: 1-28-2010
CAD FILE:
DRAWING NO.: 09-025
SHEET NO. 5 OF 17



GENERAL NOTES:

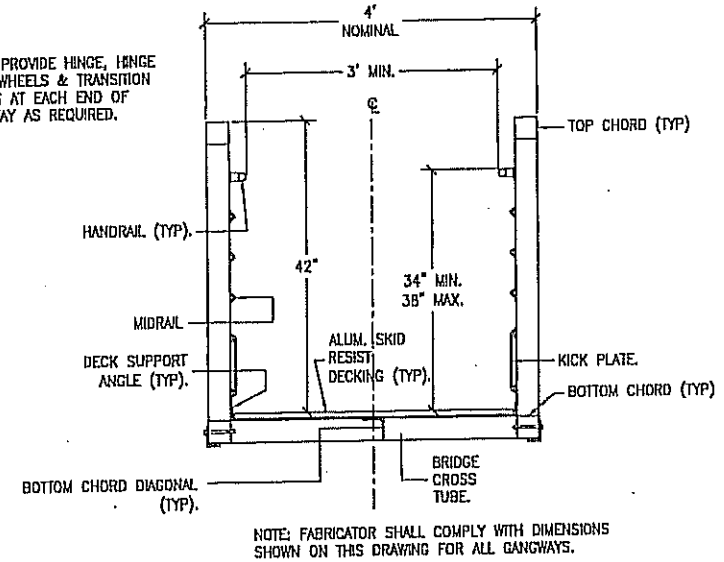
- GANGWAY FRAMING SHOWN IS SCHEMATIC ONLY. CONTRACTOR SHALL DESIGN SYSTEM TO MEET LAYOUT & SPECIFICATIONS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR ALUMINUM GANGWAY SYSTEM.
- CONTRACTOR SHALL DESIGN THE GANGWAY RESTRAINING SYSTEM AND SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR APPROVAL.
- SEE SPECIFICATIONS FOR LOADING AND DESIGN CRITERIA.
- ALL GANGWAY WALKING SURFACES SHALL BE SLIP RESISTANT IN WET AND DRY CONDITIONS.
- GANGWAY SHALL BE DESIGNED IN ACCORDANCE WITH THE UBC AND SHALL BE IN FULL COMPLIANCE WITH ADA CRITERIA AND GUIDELINES, AND LOCAL ACCESSIBILITY STANDARDS.

STRUCTURAL NOTES:

- GANGWAY SYSTEMS SHALL CONFORM TO THE CALIFORNIA BUILDING CODE, LATEST EDITION, UNLESS NOTED OTHERWISE (SEE SPECIFICATIONS FOR DETAILS).
- ALUMINUM TUBES, ANGLES AND PLATES SHALL BE 6061-T6 (OR EQUAL), UNLESS NOTED OTHERWISE.
- FABRICATION SHALL BE IN ACCORDANCE WITH THE ALUMINUM ASSOCIATION, SPECIFICATIONS FOR ALUMINUM STRUCTURES.
- STRUCTURAL STEEL SHALL BE ASTM A36, OR EQUAL. STEEL WELDING SHALL CONFORM TO THE AWS CODES.
- PREQUALIFIED WELDING PROCEDURES SHALL CONFORM TO ANSI/AWS.
- ISOLATOR MEMBRANE/SHIMS SHALL BE PROVIDED AT ALL STEEL/ALUMINUM INTERFACES.

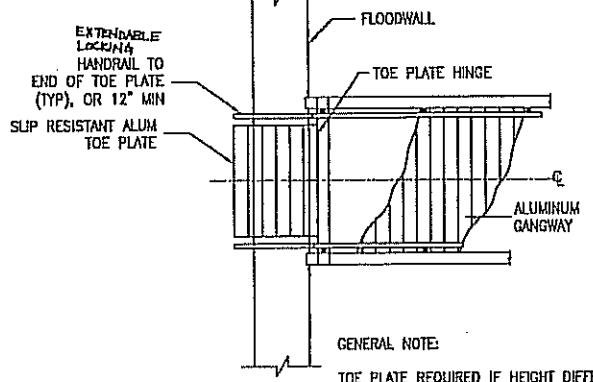
1
10
51'-0" FOOT LONG GANGWAY SCHEMATIC
SCALE: 1/2"=1'

NOTE: PROVIDE HINGE, HINGE PINS, WHEELS & TRANSITION PLATES AT EACH END OF GANGWAY AS REQUIRED.



NOTE: FABRICATOR SHALL COMPLY WITH DIMENSIONS SHOWN ON THIS DRAWING FOR ALL GANGWAYS.

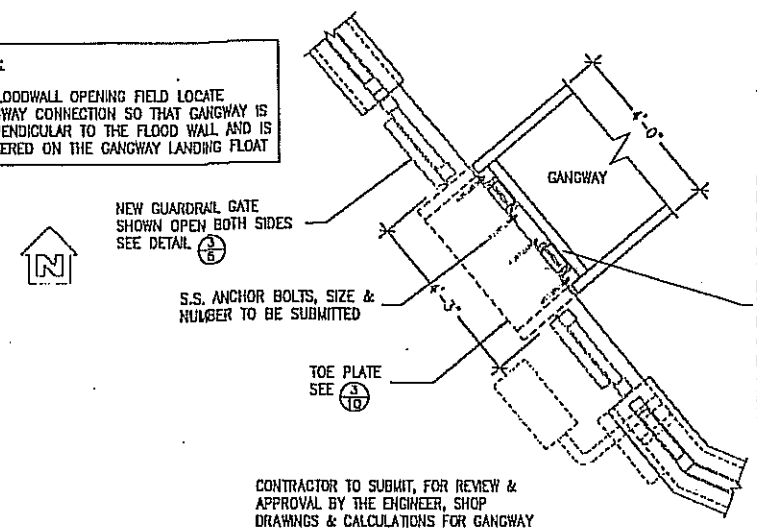
2
10
GANGWAY SCHEMATIC SECTION
SCALE: 1"=1'



GENERAL NOTE:
TOE PLATE REQUIRED IF HEIGHT DIFFERENCE BETWEEN GANGWAY & PROMENADE DECK EXCEEDS 1/4". TOE PLATE SHALL BE LONG ENOUGH TO PROVIDE 1:12 SLOPE OR FLATTER & WIDTH TO MEET ADA CRITERIA & TO ALLOW RAISING TOE PLATE TO 90 DEGREES FOR ATTACHMENT TO GANGWAY WHEN GANGWAY IS RAISED.

3
10
GANGWAY TOE PLATE PLAN VIEW
SCALE: 1/2"=1'

NOTE:
IN FLOODWALL OPENING FIELD LOCATE GANGWAY CONNECTION SO THAT GANGWAY IS PERPENDICULAR TO THE FLOOD WALL AND IS CENTERED ON THE GANGWAY LANDING FLOAT



CONTRACTOR TO SUBMIT, FOR REVIEW & APPROVAL BY THE ENGINEER, SHOP DRAWINGS & CALCULATIONS FOR GANGWAY CONNECTION TO FLOOD WALL & QUICK DISCONNECT OF GANGWAY FROM FLOODWALL FOR RAISING.

GANGWAY CONNECTION SHALL BE DESIGNED BY CONTRACTOR TO RESTRAIN GANGWAY (VERTICALLY & HORIZONTALLY) WHEN CONNECTED, & TO ALLOW FOR A QUICK RELEASE WHEN THE GANGWAY IS TO BE HOISTED-RELEASE TO BE POSSIBLE FOR ONE PERSON FROM THE PROMENADE WITHOUT SPECIAL EQUIPMENT. CONNECTION DETAILS, INCLUDING ANCHOR BOLT CONNECTION (SIZE, NUMBER, LENGTH AND LOCATION), SHALL BE CONTAINED IN GANGWAY SHOP DRAWINGS. A THROUGH PIN DOES NOT COMPLY WITH THIS REQUIREMENT UNLESS IT CAN BE DEMONSTRATED OTHERWISE.

4
10
GATE & GUARDRAIL PLAN VIEW
SCALE: 1/2"=1'

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359 DEL MARIN KEYS BLVD., SUITE 0
HUNTINGTON BEACH, CA 94040
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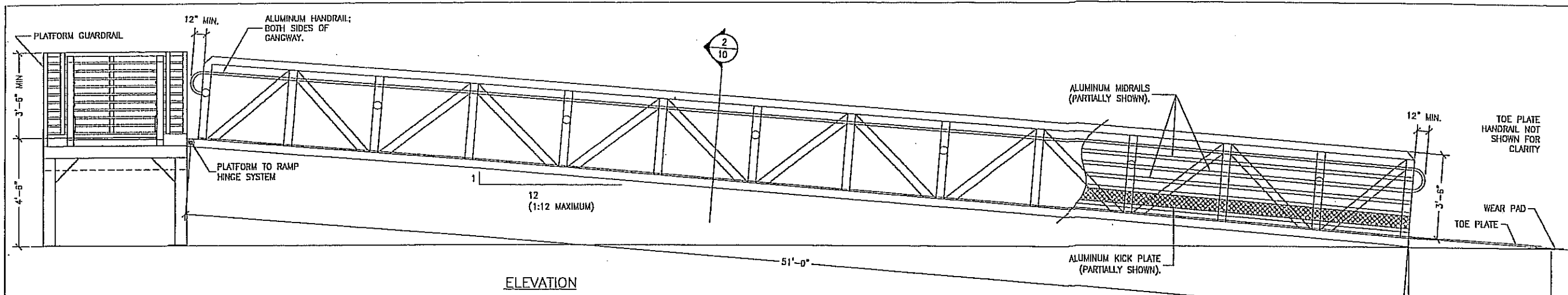
BENCH MARK
ELEV. 14.38 NGVD25
DESCRIPTION: 54-7
CITY OF NAPA BRASS CAP

DRAWN BY: DATE:
DESIGNED BY: DATE:
CHECKED BY: DATE:

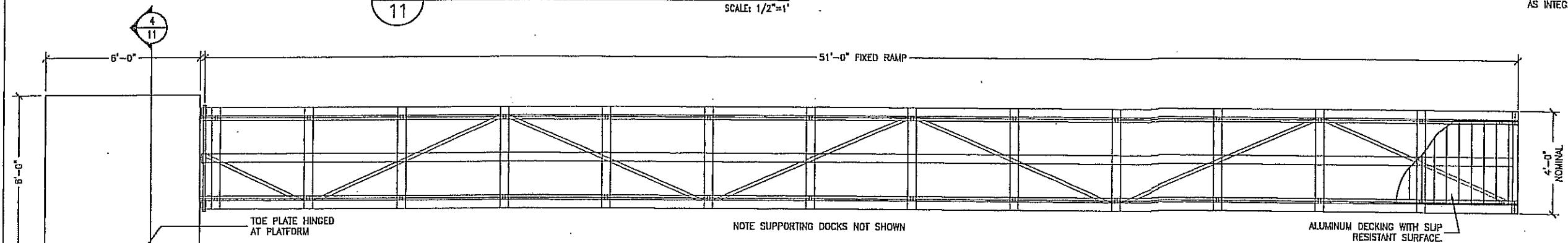
CITY OF NAPA
PUBLIC WORKS DEPARTMENT

MAIN STREET BOAT DOCK IMPROVEMENTS
GANGWAY PLAN & DETAILS

SCALE	DATE: <u>1-28-2010</u>
HOR. AS SHOWN	CAD FILE
VERT. AS SHOWN	DRAWING NO. <u>09-025</u>
	SHEET NO. <u>10</u> OF <u>17</u>

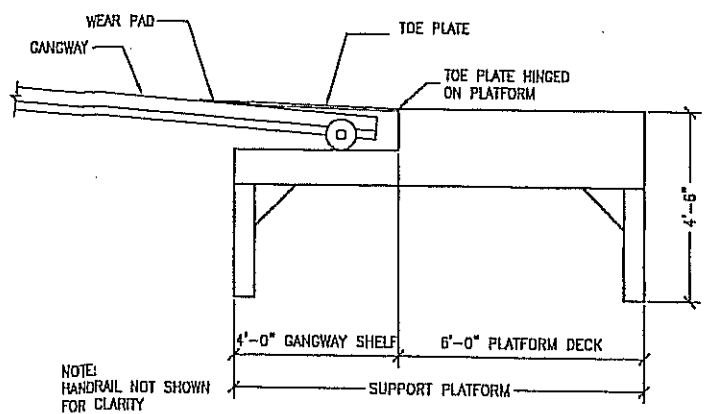


1 51'-0" FOOT LONG FIXED RAMP ELEVATION
SCALE: 1/2"=1'

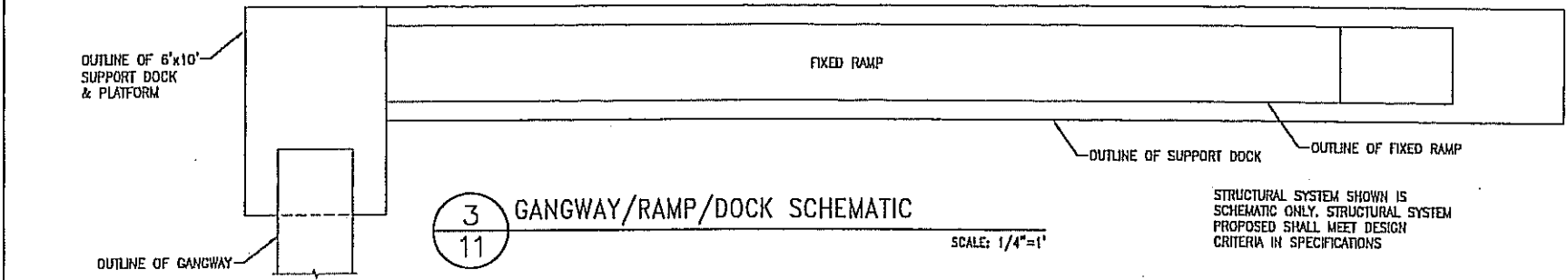


2 51'-0" FOOT LONG FIXED RAMP SCHEMATIC
SCALE: 1/2"=1'

RAMP NOTES:
1. FIXED RAMP TO COMPLY WITH GENERAL STRUCTURAL NOTES FOR GANGWAY.
2. LENGTH OF RAMP & TOE PLATE MAY BE ADJUSTED TO MEET CONTRACTOR'S DESIGN AS LONG AS A MAXIMUM SLOPE FOR THE COMBINED SYSTEM IS 1:12.



4 SUPPORT DOCK PLATFORM CROSSSECTION
SCALE: 1/2"=1'



3 GANGWAY/RAMP/DOCK SCHEMATIC
SCALE: 1/4"=1'

STRUCTURAL SYSTEM SHOWN IS SCHEMATIC ONLY. STRUCTURAL SYSTEM PROPOSED SHALL MEET DESIGN CRITERIA IN SPECIFICATIONS

REVISIONS	
NO.	DESCRIPTION

BENCH MARK	
ELEV.	DESCRIPTION
14.38 NGVD29	54-7 CITY OF NAPA BRASS CAP

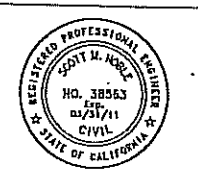
DESIGNED BY: <u>SLH</u>	DATE: _____
CHECKED BY: <u>SLH</u>	DATE: _____



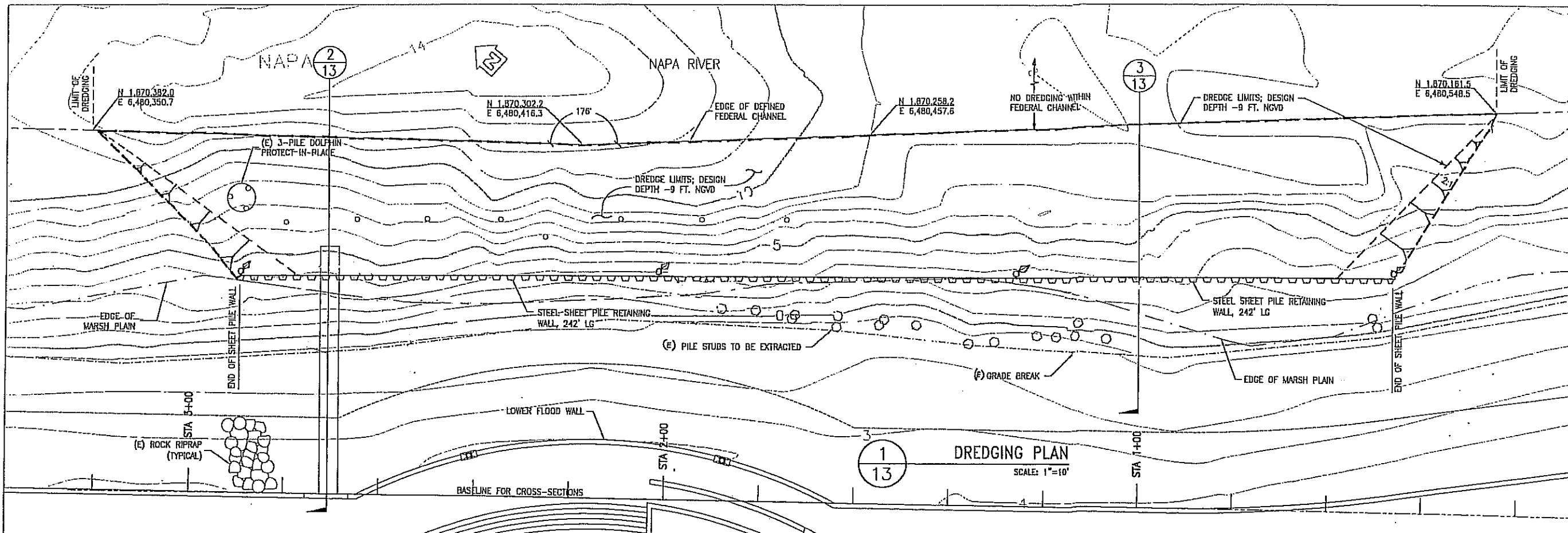
CITY OF NAPA
PUBLIC WORKS DEPARTMENT

MAIN STREET BOAT DOCK IMPROVEMENTS
FIXED RAMP PLAN

Prepared by: **NOBLE ENGINEERS, INC.**
350 BEL MARIN KEYS BLVD., SUITE 9
REDWOOD CITY, CA 94061
(415) 864-0727
(415) 864-0733 (FAX)



SCALE: 1-2 1/2"=1'	DATE: 1-28-2010
INCL. AS SHOWN	CAD FILE:
VERT. AS SHOWN	DRAWING NO. 09-025
	SHEET NO. 11 OF 17



DREDGING NOTES:

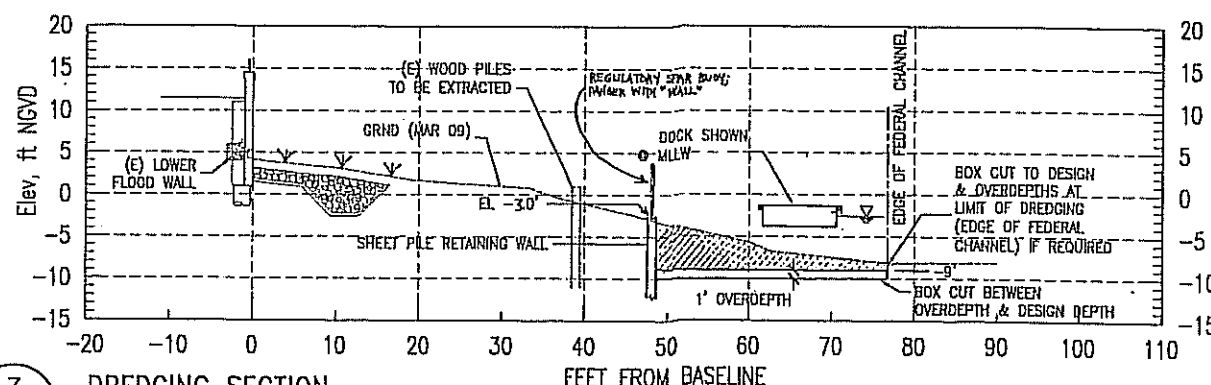
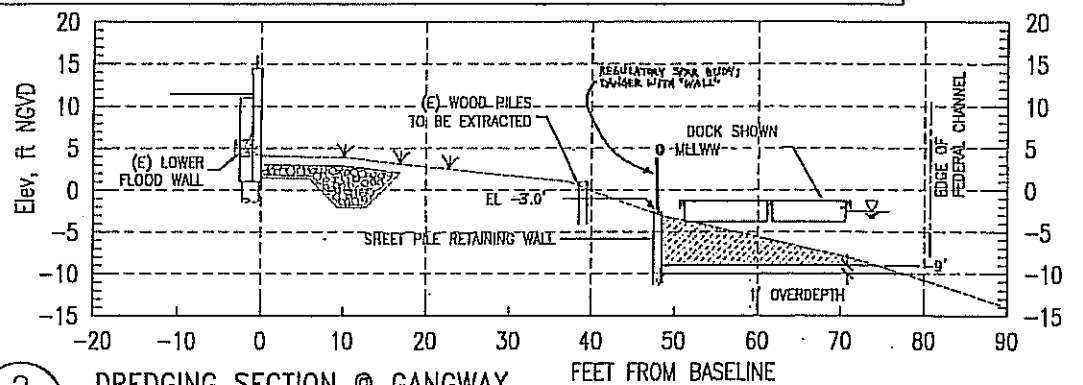
- CONTRACTOR SHALL SUBMIT A DREDGING PLAN THAT LISTS EQUIPMENT, DREDGING NOTES, DREDGING & DISPOSAL METHODS, AND MEANS TO SET CONTROL (HORIZONTAL & VERTICAL).
- DESIGN DEPTH IS -9.0' NGVD. ALLOWABLE OVERDEPTH IS -1.0' TO AN ELEVATION OF -10.0' NGVD. NO DREDGING DEEPER THAN -10.0' NGVD IS PERMITTED.
- THE LIMIT OF THE DESIGN DEPTH DREDGING IS DEFINED BY THE LISTED COORDINATES & THE LIMIT OF THE FEDERAL NAVIGATION CHANNEL. THE POINTS SHALL BE STAKED BY THE CONTRACTOR FOR REVIEW BY THE ENGINEER AND FOR USE TO CONTROL THE DREDGING.
- THE DAYLIGHT LINE SHALL BE DETERMINED BY A DREDGING SLOPE OF 2:1 (H:V), SO THAT IT DOES NOT EXTEND INTO THE MARSH PLAIN TERRACE.
- CONTRACTOR SHALL STAKE AT 20 FEET O.C. AND ALL ANGLE POINTS ALONG EDGE OF MARSH PLAN BASED ON INFORMATION PROVIDED BY ENGINEER. NO DREDGING SHALL OCCUR BEYOND EDGE OF MARSH PLAN, AND BOX CUT MAXIMUM OF 3' SHALL OCCUR WITHIN 5 FEET OF THE EDGE.
- METHOD TO DREDGE SIDE SLOPE IS TO BE SUBMITTED AS PART OF THE DREDGING PLAN. BOX CUT TO OBTAIN SIDE SLOPE IS ACCEPTABLE.

- DREDGING TO BE PERFORMED PRIOR TO INSTALLATION OF NEW PILES & DOCK.
- PROTECT (E) PILES IN PLACE, UNLESS OTHERWISE SHOWN.
- DEBRIS MAY BE ENCOUNTERED. CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ANY DEBRIS WITHIN THE LIMITS OF DREDGING FROM THE SITE.
- PROTECT (E) PLANTINGS IN MARSH PLAN

SURVEY NOTES:

- SEE SHEET 2 FOR BM & DETAILS
- HORIZONTAL CONTROL: NAD83, ZONE 3
- VERTICAL DATUM: NGVD29
- HYDROGRAPHIC SURVEY DATA BASED ON SURVEY PERFORMED BY: CINDUINI & PASSARINO, INC. MARCH 8, 2009 JOB NUMBER: 6069-09

REAR LARRY SPA BUMP; BUMP WITH "WALL"



Prepared by: **NOBLE CONSULTANTS, INC.**
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REVISIONS				BENCH MARK		DRAWN BY: <u>ASIAV</u> DATE _____	
NO.	DESCRIPTION	DATE	BY	ELEV.	DESCRIPTION	DESIGNED BY: <u>SLW</u> DATE _____	CHECKED BY: <u>SLW</u> DATE _____
				14.38 NGVD29	CITY OF NAPA BRASS CAP		

CITY OF NAPA
PUBLIC WORKS DEPARTMENT

MAIN STREET BOAT DOCK IMPROVEMENTS
DREDGING & SHEET PILE PLAN

SCALE	DATE	1-28-2010
HOR. AS SHOWN	CAD FILE	
VERT. AS SHOWN	DRAWING NO.	09-025
SHEET NO.		13 OF 17