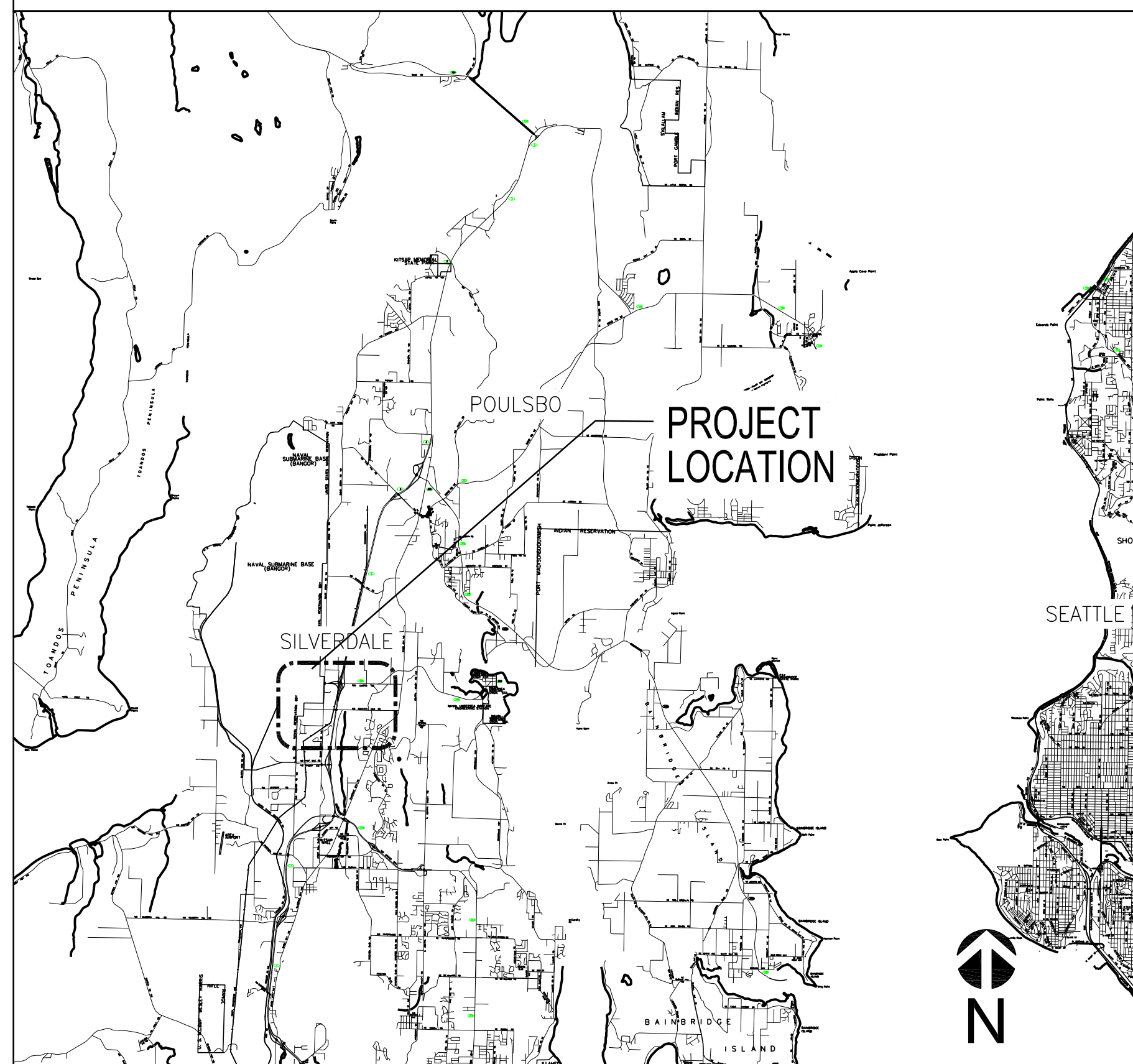




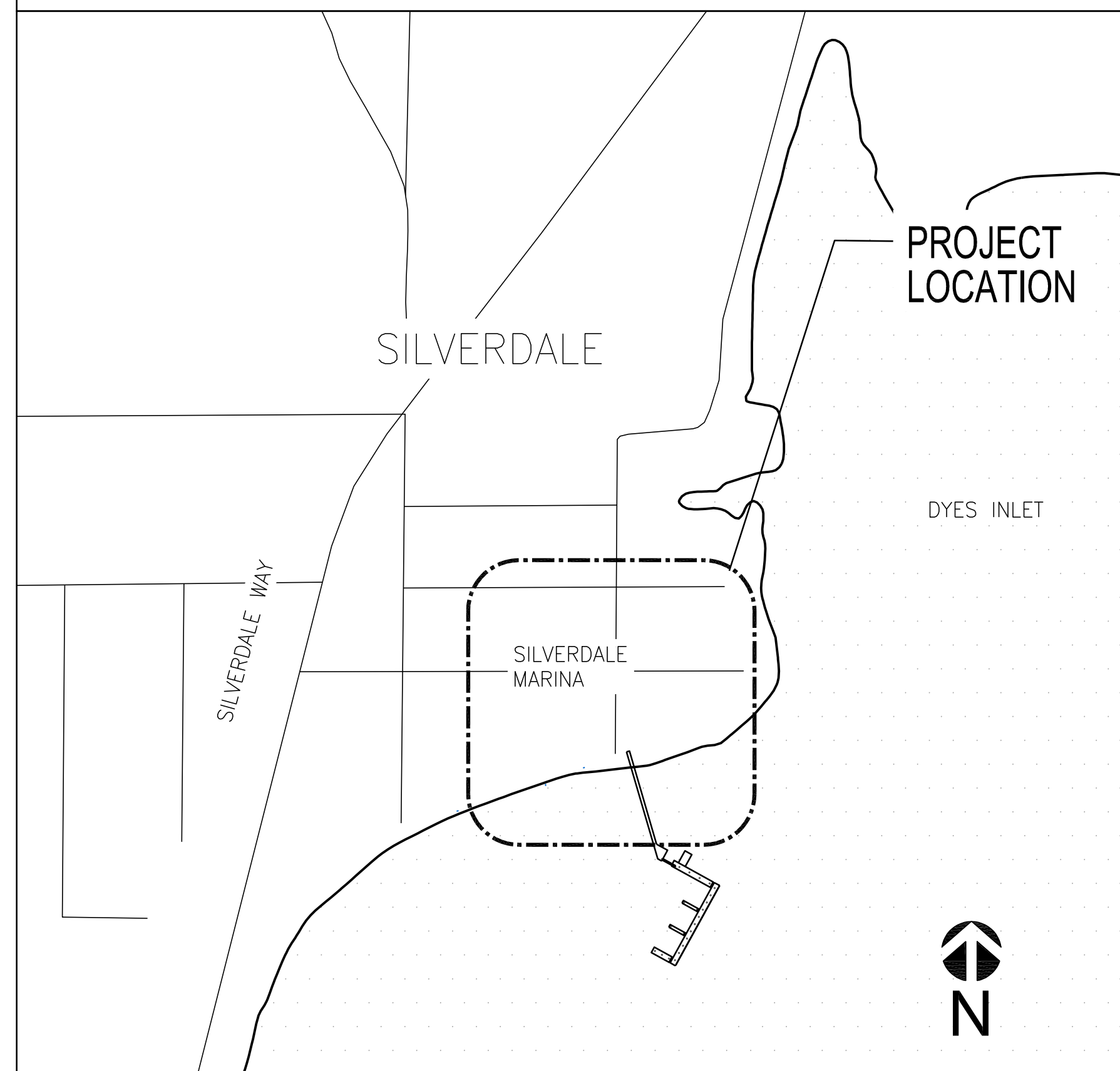
# PORT OF SILVERDALE MARINA RELOCATION DESIGN

P.O. BOX 310  
SILVERDALE, WASHINGTON 98383

VICINITY MAP



LOCATION MAP



## PROJECT TEAM

CONSTRUCTION CONTRACTOR:

DESIGN ENGINEER:

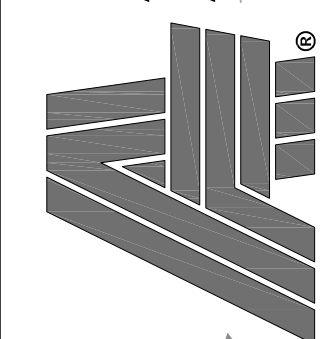
ART ANDERSON  
830 PACIFIC AVE  
BREMERTON, WA 98337

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2022-AUG-17

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PORT OF SILVERDALE  
MARINA RELOCATION DESIGN  
P.O. BOX 310  
SILVERDALE, WASHINGTON 98383

DRAWN: MWM  
DESIGNED: ADT  
CHECKED: RBC

ISSUE DATE  
17 AUG 2022

REVISIONS

JOB NO  
FWPSI001.004

SHT TITLE  
TITLE SHEET, LOCATION  
MAPS, & PROJECT TEAM

SHT NO 1 OF 10

**G001**

## DRAWING INDEX

1. G001 TITLE SHEET, LOCATION MAPS, & PROJECT TEAM
2. G002 DRAWING INDEX, NOTES, ABBREVIATIONS, & LEGEND
3. S101 MARINA PLAN
4. S102 RELOCATED FLOATS PLAN
5. S201 FLOAT DECKING AND FRAMING PLANS
6. S301 FLOAT SECTIONS AND ELEVATIONS
7. S501 GANGWAY DETAILS
8. S502 GANGWAY DETAILS
9. S503 MISC. DETAILS
10. S504 MISC. DETAILS

## GENERAL NOTES

1. SURVEYOR: TBD
  - A. HORIZONTAL DATUM:
  - B. VERTICAL DATUM: MLLW
  - C. TIDAL DATA: BASED ON DATA PUBLISHED BY NOAA FOR STATION 9445958, BREMERTON WA. EXTREME WATER LEVELS ARE ESTIMATED 1% ANNUAL EXCEEDANCE LEVELS FOR STATION 9447130 SEATTLE, WA

EXTREME HIGH WATER (ESTIMATED)	14.89
MEAN HIGHER HIGH WATER (MHHW)	11.71
MEAN HIGH WATER (MHW)	10.81
MEAN SEA LEVEL (MSL)	6.79
MEAN LOW WATER (MLW)	2.83
NAVD 88	2.52
MEAN LOWER LOW WATER (MLLW)	0.00
EXTREME LOW WATER (ESTIMATED)	-4.72

2. CONSTRUCTION SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THESE PLANS AND NOTES ARE NOT INTENDED TO DIRECT THE CONTRACTOR'S METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES EXCEPT AS DESCRIBED FOR CONSIDERATION IN DESIGN.
3. THE CONTRACTOR SHALL LOCATE UTILITIES IN THE WORK AREA PRIOR TO BEGINNING CONSTRUCTION.
4. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, SITE CONDITIONS, FEATURES, AND ELEVATIONS PRIOR TO FABRICATION OR CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IF DIFFERING CONDITIONS ARE FOUND OR IF THE DESIGN IS TO BE MODIFIED.
5. REPAIR AND PATCH ALL EXISTING SURFACES DAMAGED OR ALTERED BY NEW WORK. ALL PATCHED SURFACES SHALL BE SMOOTH, CONTINUOUS, FREE OF IMPERFECTIONS, AND IN PROPER CONDITION TO RECEIVE THE FINISH AS SPECIFIED, IN PATCHED AREAS OF ANY AREA WHERE A FINISH IS NOT SPECIFIED. CORRECTIVE WORK SHALL MATCH ADJACENT SURFACE FINISHES.
6. PROVIDE TEMPORARY BRACING TO UNFINISHED PORTIONS OF THE STRUCTURE UNTIL STABILITY OF THE FINISHED STRUCTURE IS ACHIEVED.
7. NOTIFY THE ENGINEER OF ANY OMISSIONS OR CONFLICTS REGARDING ELEMENTS SHOWN IN THE STRUCTURAL DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION.
8. THESE DRAWINGS ARE INTENDED TO PROVIDE A GENERAL DESCRIPTION OF THE SCOPE OF WORK AND SHOULD BE REVIEWED FOR INTENT AS WELL AS SPECIFIC INFORMATION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO EXECUTE THE WORK WITH GENERALLY ACCEPTED STANDARDS OF QUALITY CONSTRUCTION TO PROVIDE A COMPLETED PROJECT, FULLY USABLE FOR ITS INTENDED PURPOSE.

## DESIGN CRITERIA

### CODES AND STANDARDS

1. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 360-16, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
2. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) 7-16, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
3. AMERICAN WELDING SOCIETY (AWS) AWS D1.1-2015 STRUCTURAL WELDING CODE - STEEL
4. AMERICAN WOOD COUNCIL (AWC) ANSI/AWC NDS-2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
5. INTERNATIONAL CODE COUNCIL (ICC) INTERNATIONAL BUILDING CODE (IBC), 2018, AS WELL AS STATE AND LOCAL AMENDMENTS
6. UNITED STATES ACCESS BOARD (2003) ACCESSIBLE BOATING FACILITIES

### LOADS AND CRITERIA

1. DEAD LOADS: WEIGHT OF ALL FRAMING, DECKING, HARDWARE, PONTOONS, AND PERMANENTLY ATTACHED EQUIPMENT, MIN 35 PCF FOR LUMBER
2. LIVE LOADS:
  - a. UNIFORM LIVE LOAD: 40 PSF
  - b. CONCENTRATED LIVE LOAD: 400 LBS POINT LOAD AT CRITICAL LOCATION, MIN 12" FROM FLOAT EDGE
3. WIND LOADS:
  - a. BASIC WIND SPEED  $V = 92$  MPH (300 YEAR RETURN, 3 SECOND GUST)
  - b. EXPOSURE: D
4. CURRENT LOAD:
  - a. 1.5 KNOTS, ESTIMATED TIDAL CURRENT
5. WAVE LOAD

	FETCH (MILES)	HS (FT)	HT (SEC)
S EXPOSURE	2.5	3.6	3.2
SSE EXPOSURE	3.1	4.0	3.5
ESE EXPOSURE	1.1	2.4	2.5

## DESIGN CRITERIA (CONT)

6. LEVEL TOLERANCES:
  - a. MAX CROSS SLOPE = 1:50
7. FLOAT FREEBOARD:
  - a. DEAD LOAD ONLY: 14" - 24"
  - b. DEAD LOAD + LIVE LOAD: 10" MIN
  - c. LOW FREEBOARD FLOAT: 4" MIN, 12" MAX, ALL LOADING CONDITIONS

### STEEL

1. PILES: ASTM A252, GR 3, FY = 45 KSI
2. PLATE, ANGLES: ASTM A36, FY = 36 KSI
3. ALL STEEL AND HARDWARE TO BE GALVANIZED

### TIMBER

1. GLUED LAMINATED TIMBER:
  - a. SPECIES: DF/DF
  - b. GRADE: 20F-V7
  - c. FBX = 2000 PSI
2. ALL WOOD MATERIALS SHALL BE PRECUT TO SIZE AND LENGTH AND HOLES DRILLED PRIOR TO PRESERVATIVE TREATMENT AS SPECIFIED.
3. WOOD TREATMENT - ALL MEMBERS SHALL BE TREATED AFTER FABRICATION IN ACCORDANCE WITH THE CURRENT "AMERICAN WOOD PROTECTION ASSOCIATION" STANDARDS

### ALUMINUM

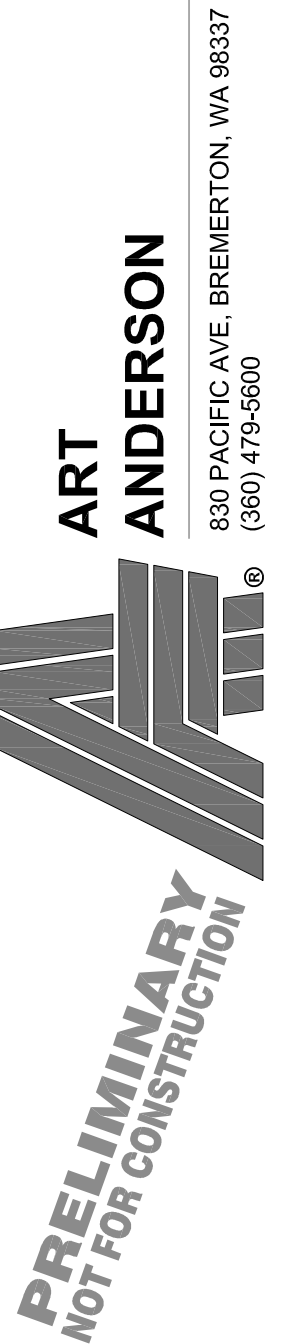
1. HSS AND ANGLES: 6061-T6
2. PLATE AND FLAT BAR: 5086-T116
3. PIPE: 6063-T6

## ABBREVIATIONS

ELEV	ELEVATION
MHHW	MEAN HIGH HIGH WATER
MLLW	MEAN LOW LOW WATER
OC	ON CENTER
OHWM	ORDINARY HIGH WATER MARK
TYP	TYPICAL

## LEGEND

- # ELEVATION  
 ~ 5 ~ CONTOUR LINE



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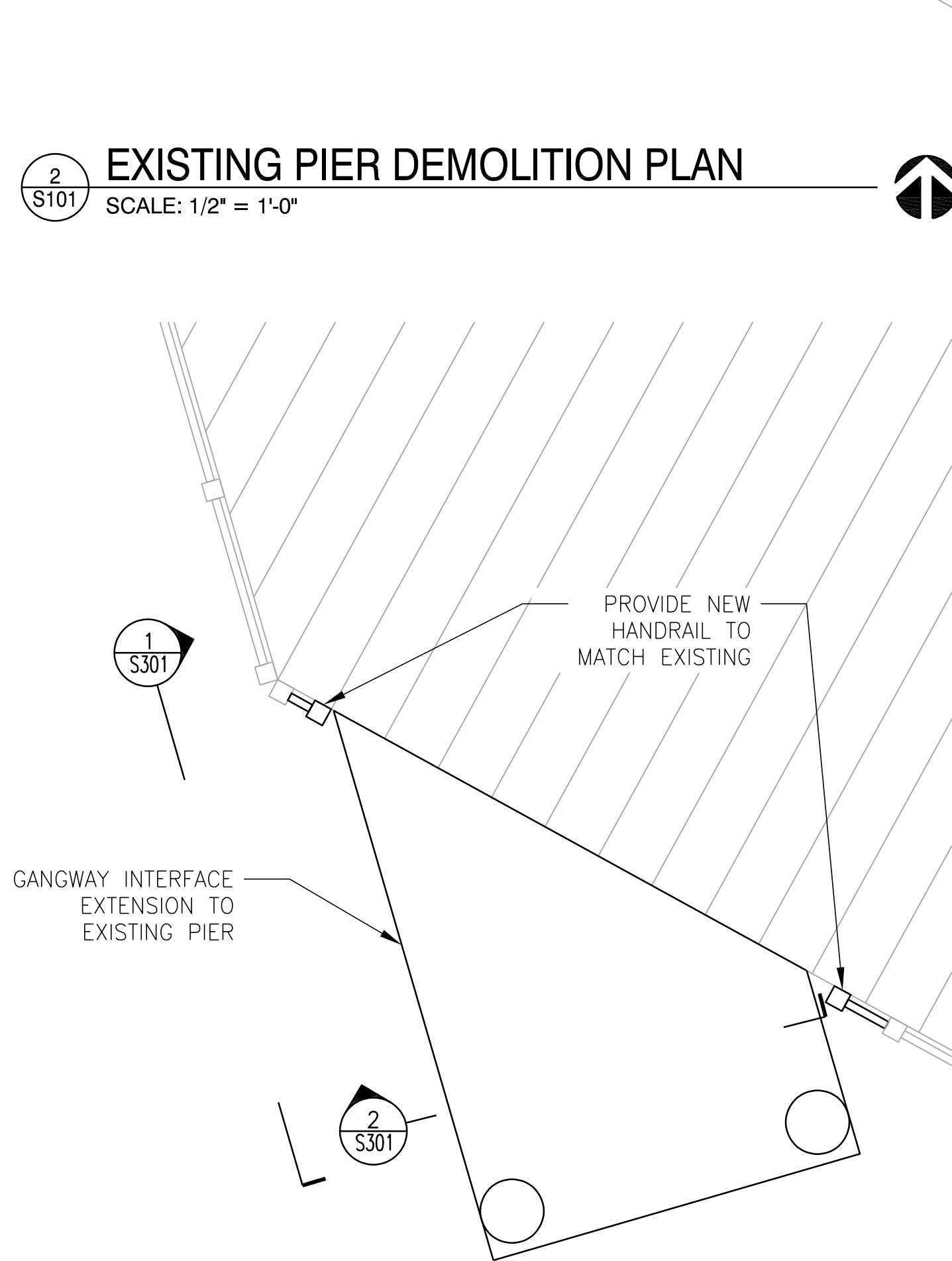
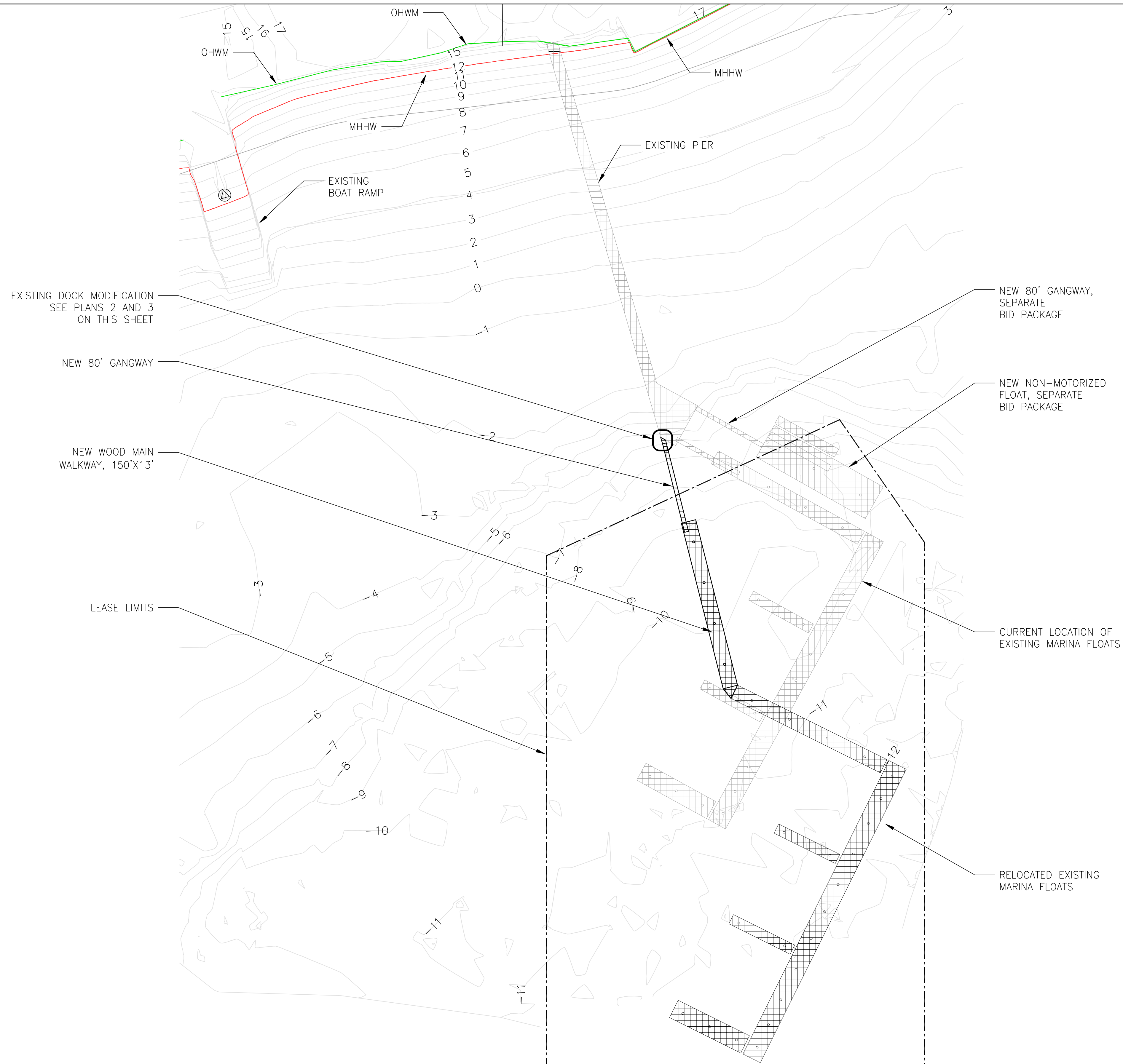
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 DRAWING INDEX, NOTES,  
 ABBREVIATIONS, &  
 LEGEND

SHT NO 2 OF 10

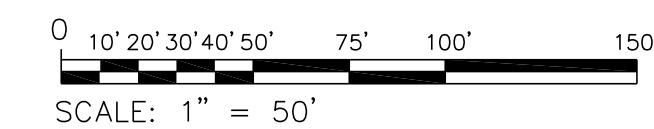
**G002**

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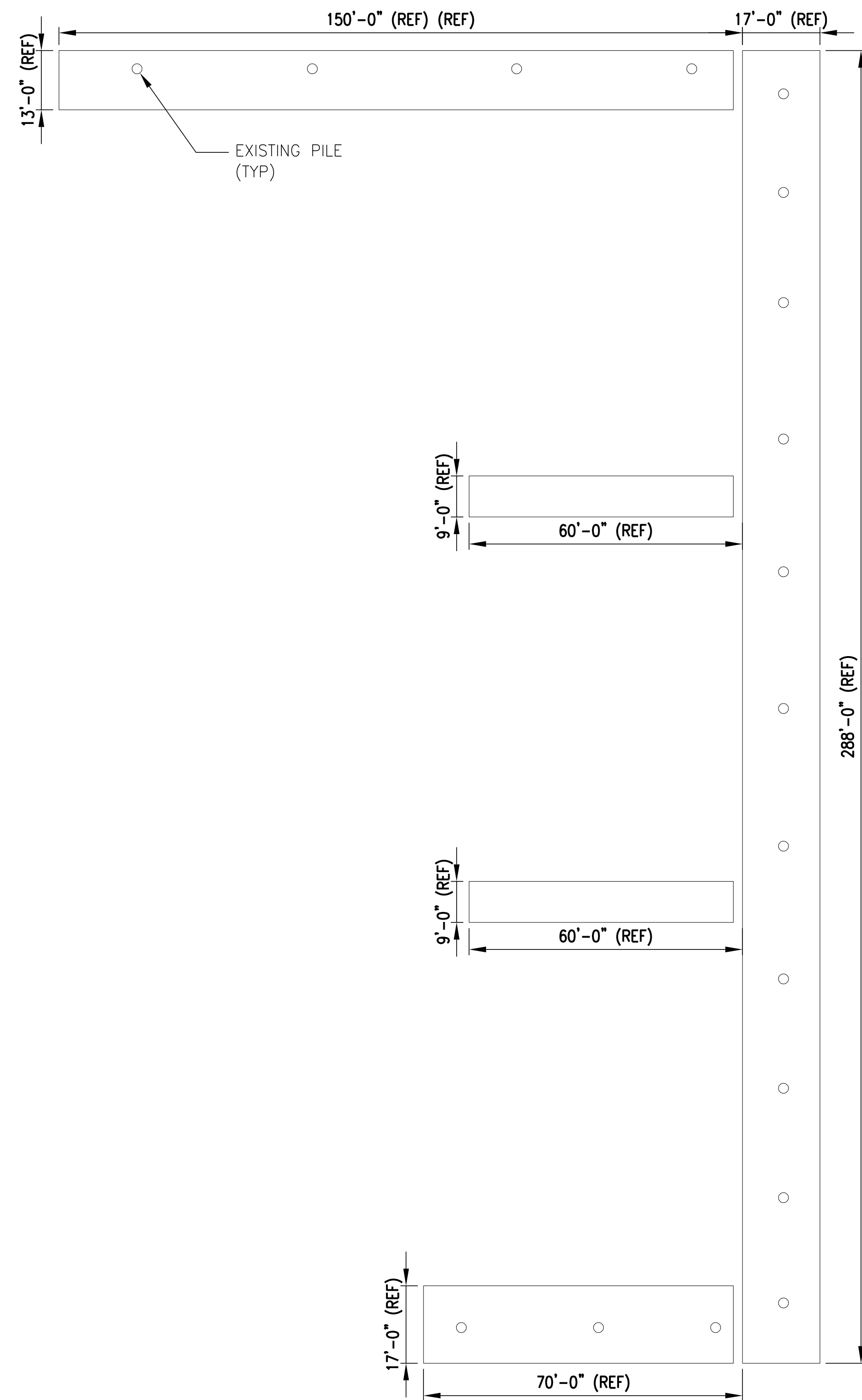
SHT TITLE: MARINA PLAN

SHT NO: 3 OF 10

**S101**

**SHEET NOTES**

- SEE AS-BUILT FLOAT DRAWINGS, BY MARINA VENTURES, DATED 6-23-1986, FOR ADDITIONAL DETAILS.



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SHT TITLE  
 RELOCATED FLOATS  
 PLAN

SHT NO  
 4 OF 10

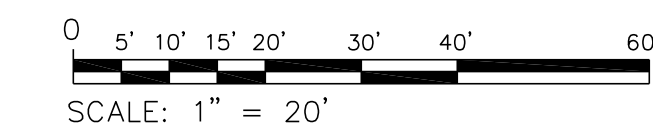
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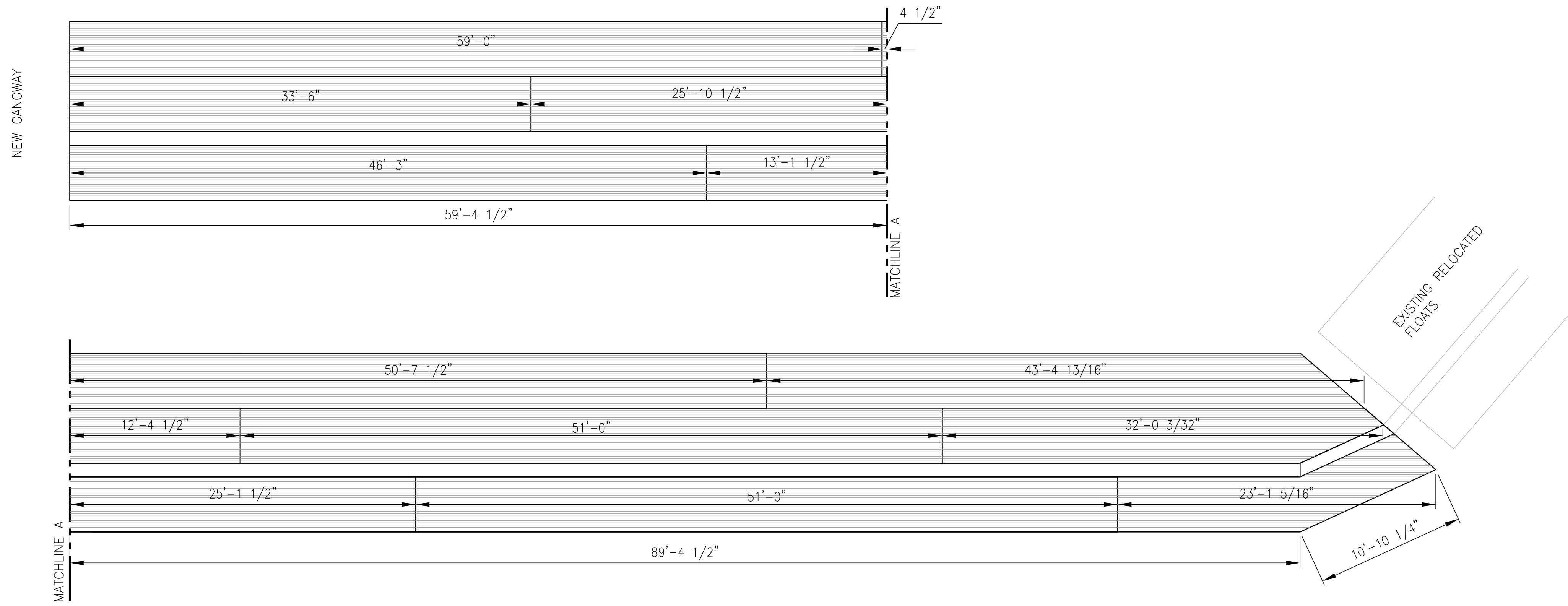
**EXISTING FLOATS TO BE RELOCATED PLAN**

1  
 S102

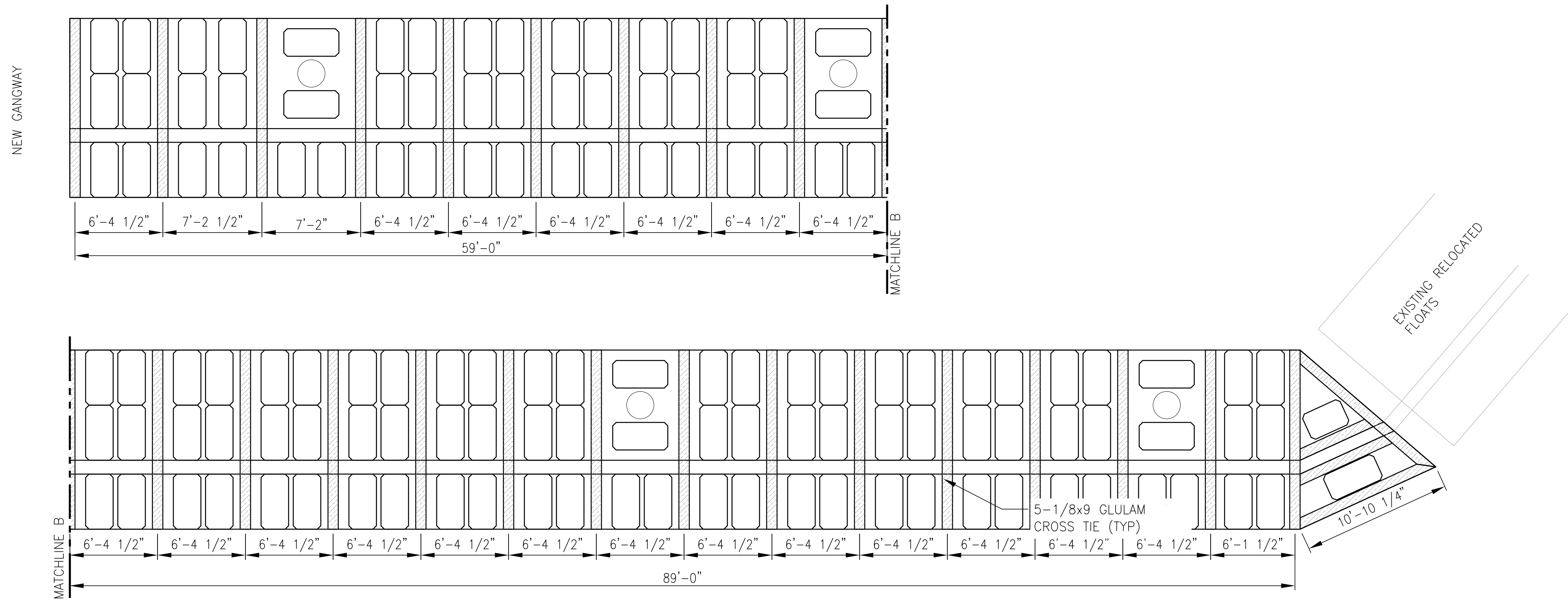
SCALE: 1" = 20'-0"



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1 DECKING PLAN  
 S201 3/16" = 1'-0"



2 FRAMING PLAN  
 S201 3/16" = 1'-0"

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0 1' 2' 3' 4' 6' 8' 12'  
 SCALE: 1/4" = 1'-0"  
 SHEET IS 22x34 ANSI D  
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SHT TITLE  
 FLOAT DECKING AND  
 FRAMING PLANS

SHT NO 5 OF 10

**S201**

PIER DECK  
18.6 FT

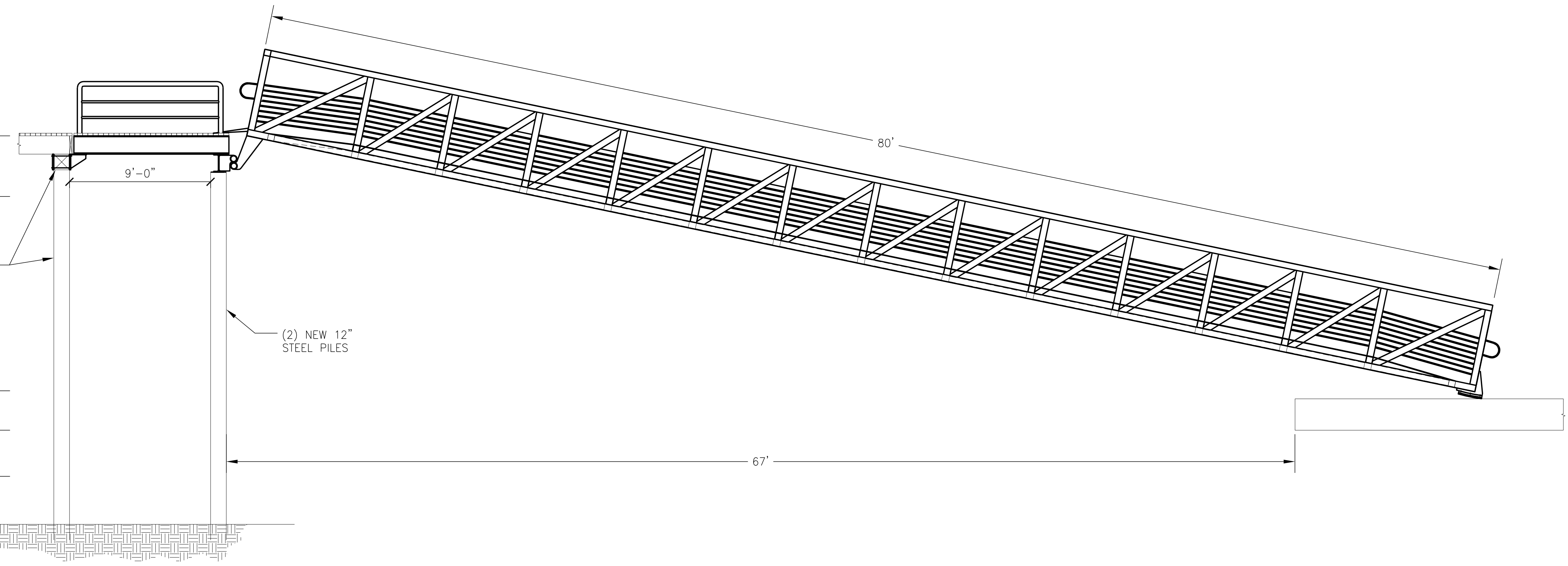
EHW  
14.89 FT

EXISTING PIER

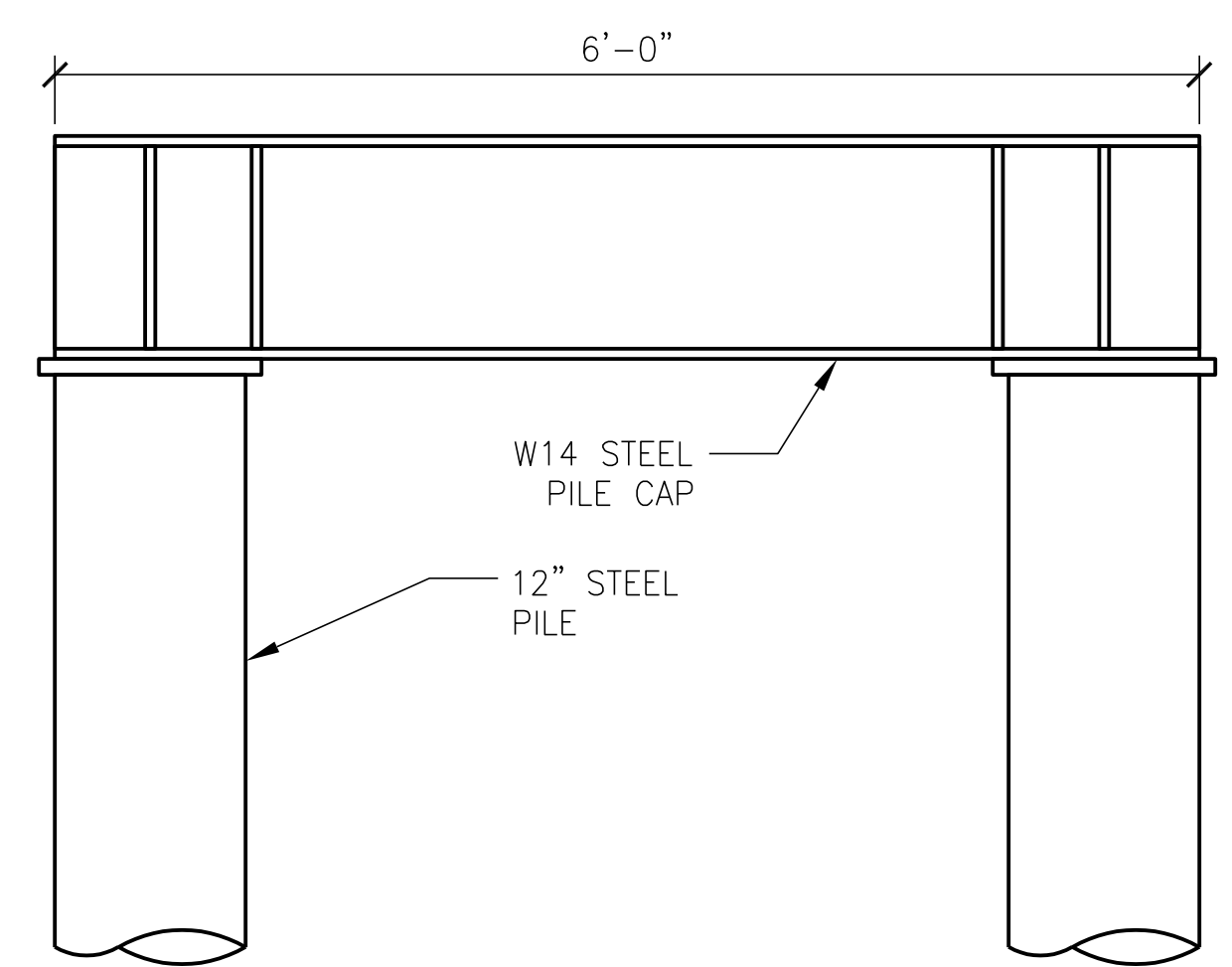
NAVD88  
2.52 FT

MLLW  
0.00 FT

ELW  
-4.70 FT

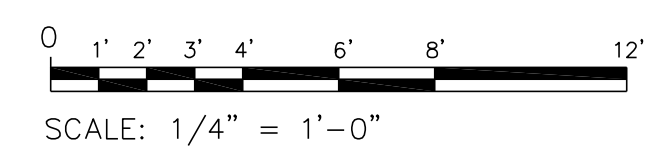


1  
S301 GANGWAY ELEVATION  
1/4" = 1'-0"



2  
S301 SECTION  
1" = 1'-0"

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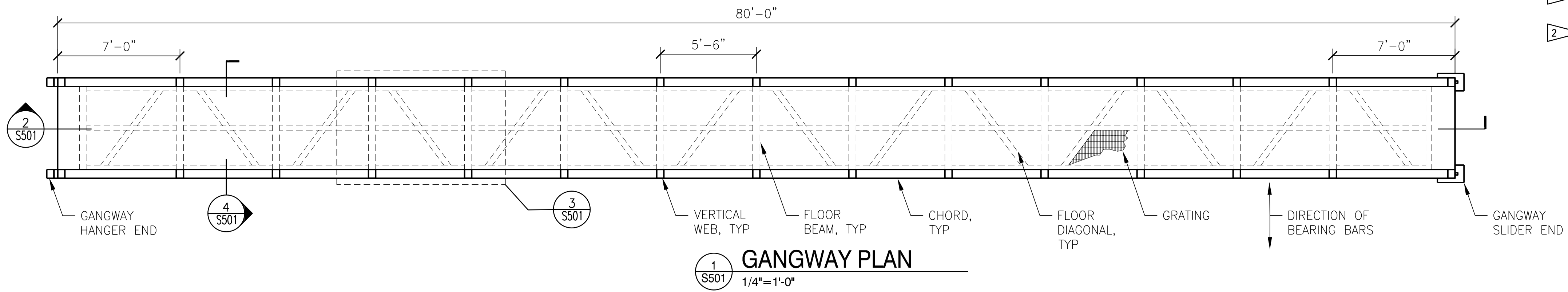
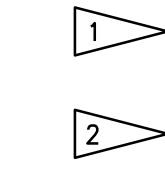
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SHT TITLE  
FLOAT SECTIONS AND  
ELEVATIONS

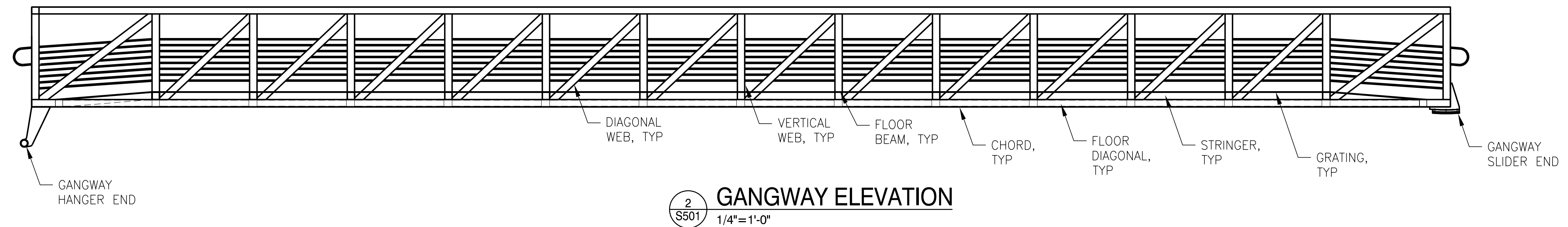
SHT NO 6 OF 10

**S301**

FLAG NOTES

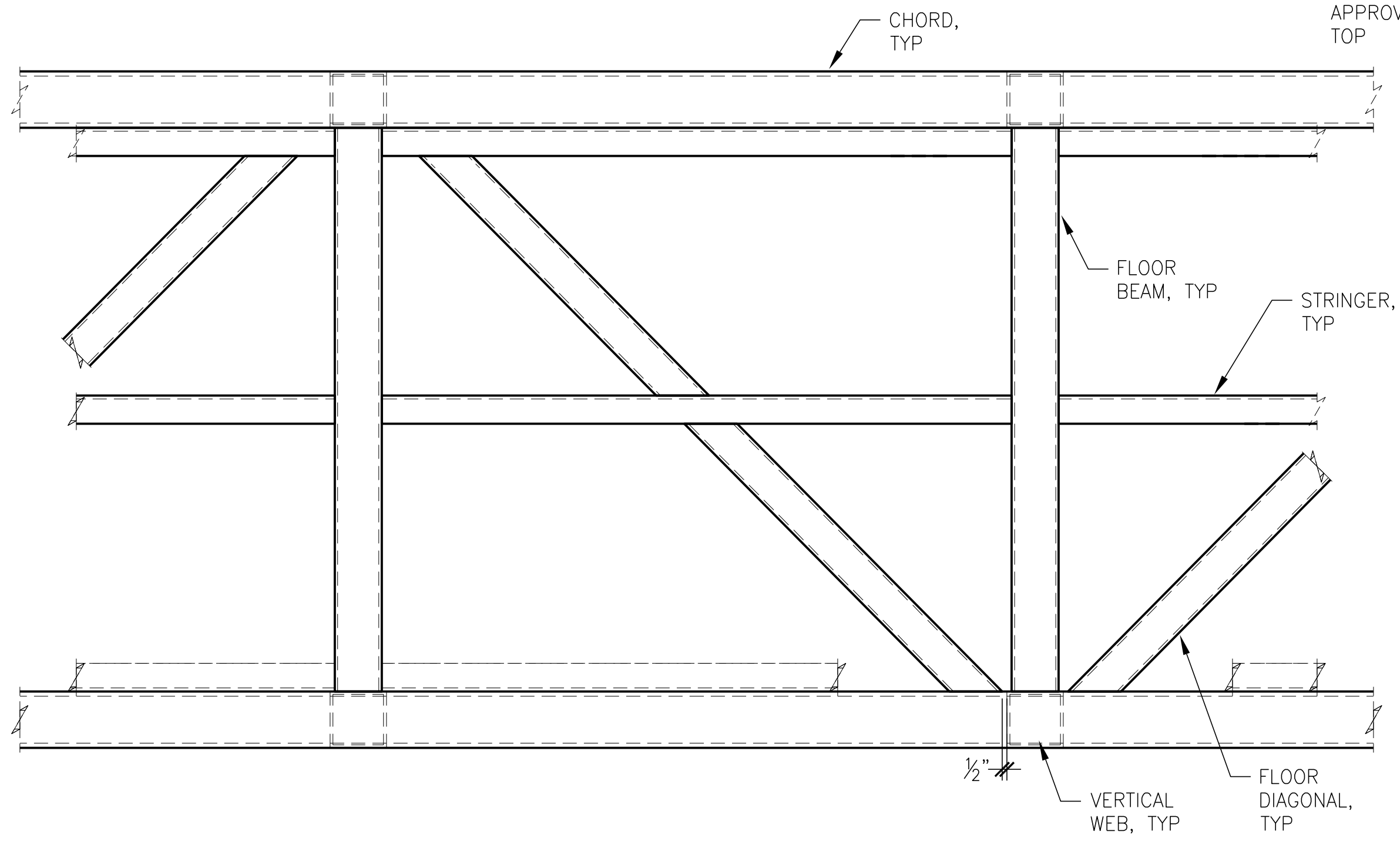


1 GANGWAY PLAN  
1/4" = 1'-0"

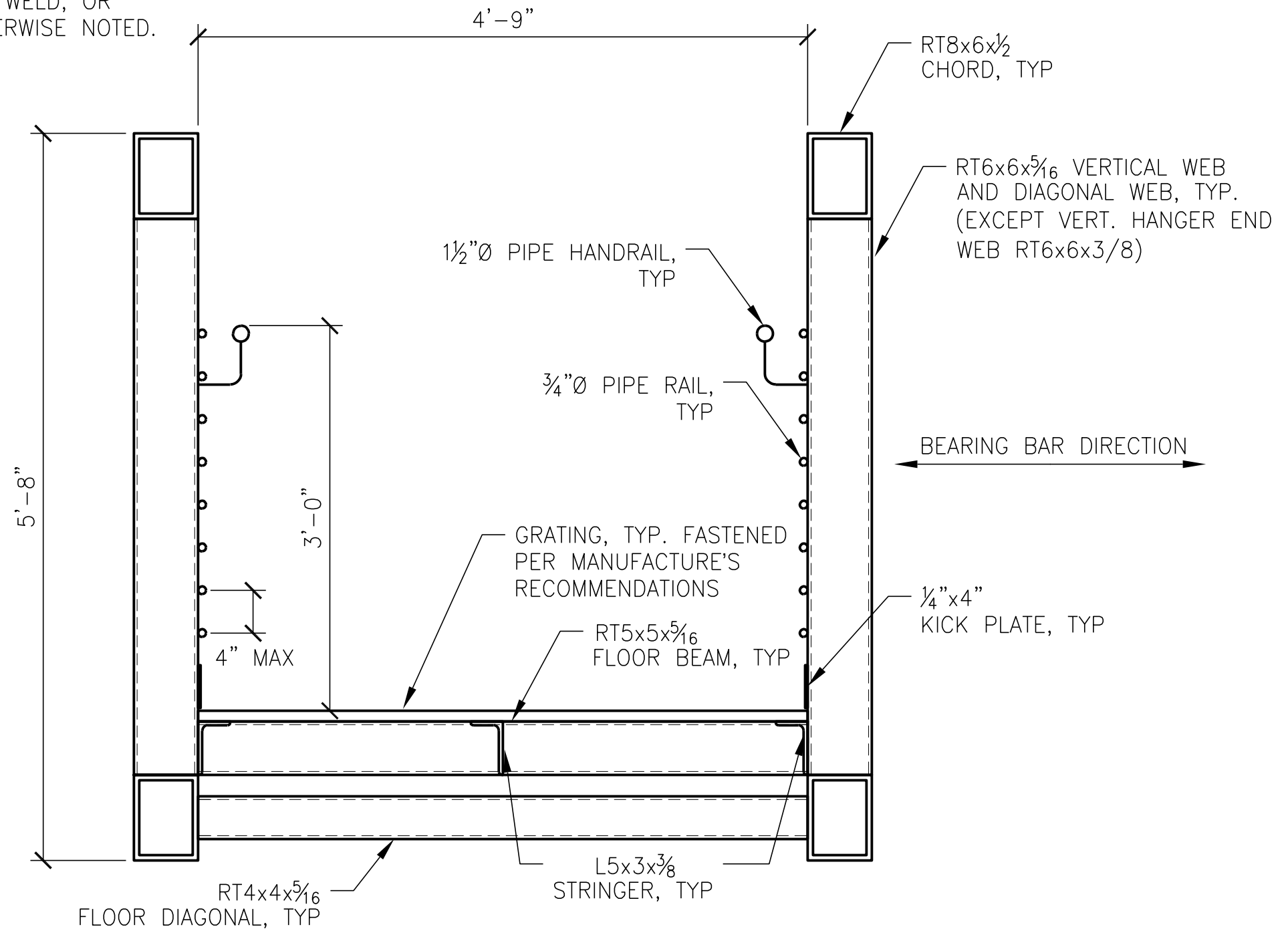


2 GANGWAY ELEVATION  
1/4" = 1'-0"

ALUMINUM WELD NOTE:  
ALL JOINTS SHALL BE WELDED WITH A 5/16" FILLET, OR EQUIVALENT GROOVE WELD, OR APPROVED EQUAL, UNLESS OTHERWISE NOTED.

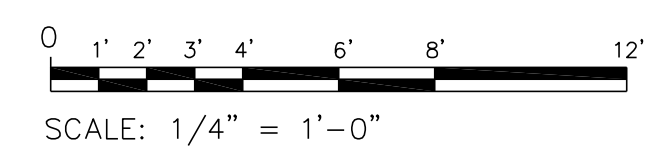
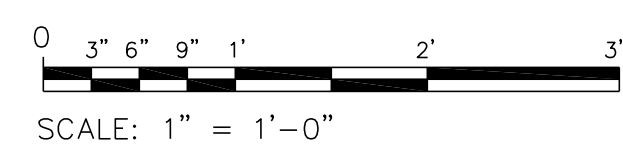


3 GANGWAY DETAIL  
1" = 1'-0"



4 GANGWAY DETAIL  
1" = 1'-0"

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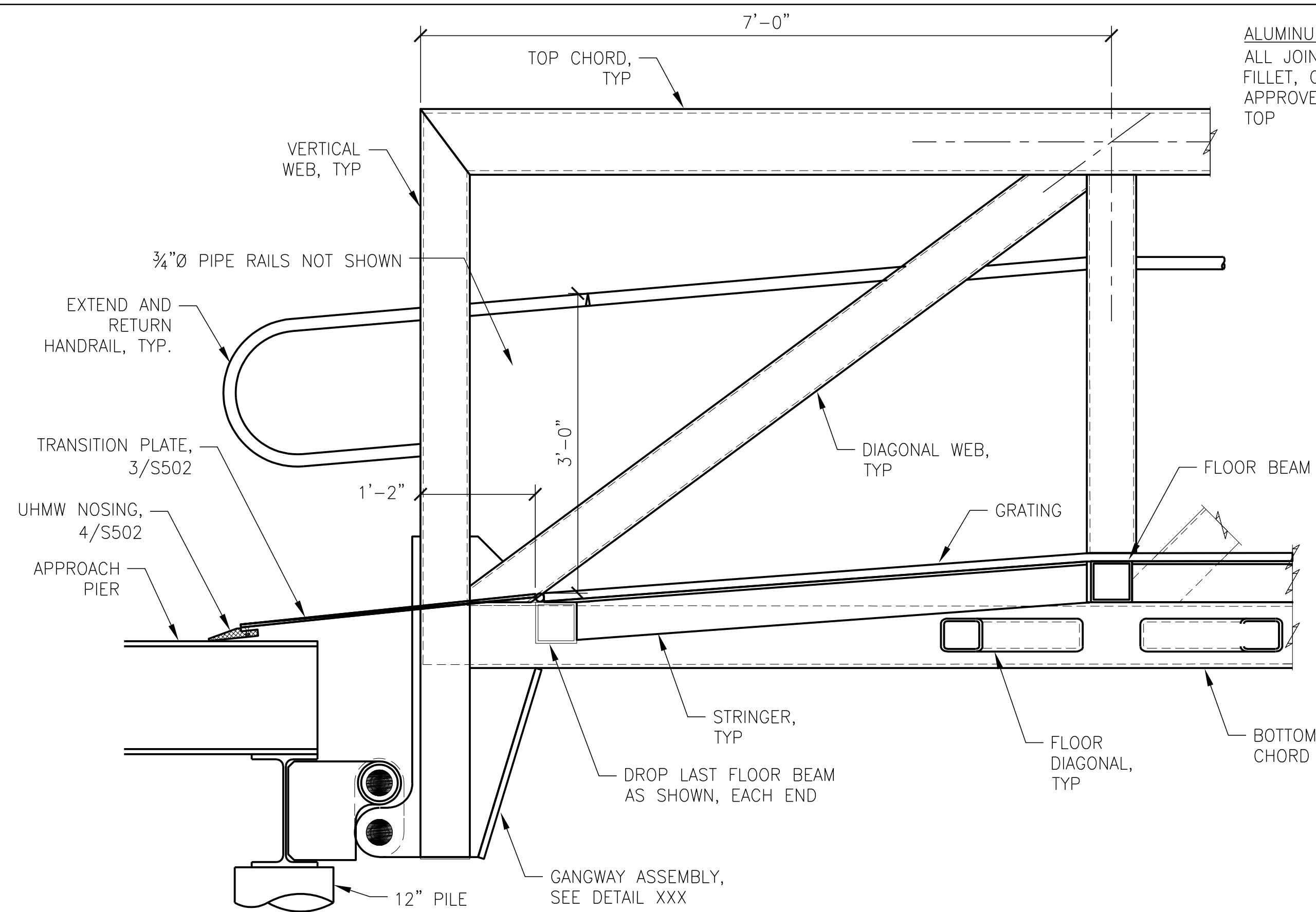
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GANGWAY DETAILS

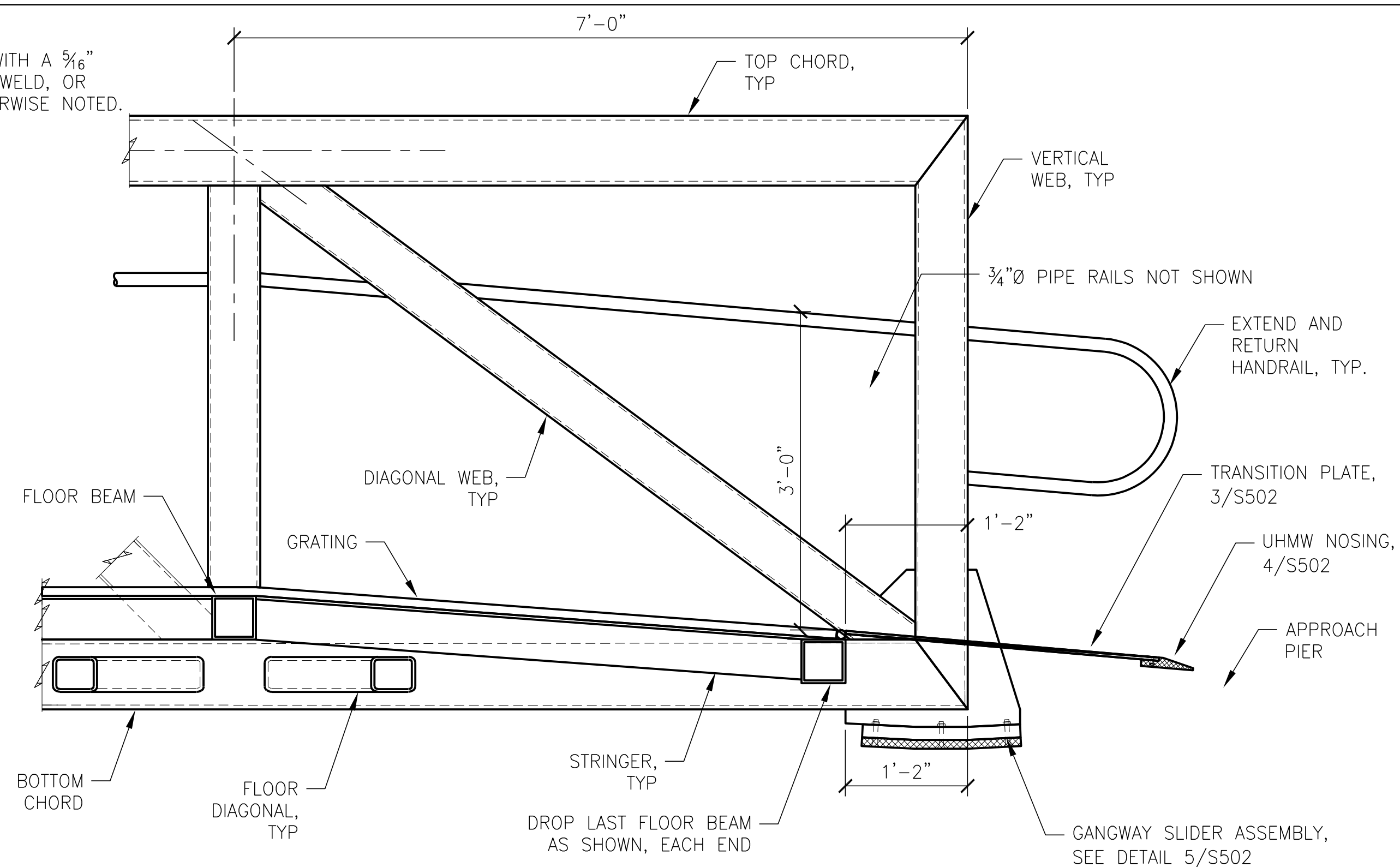
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**S501**

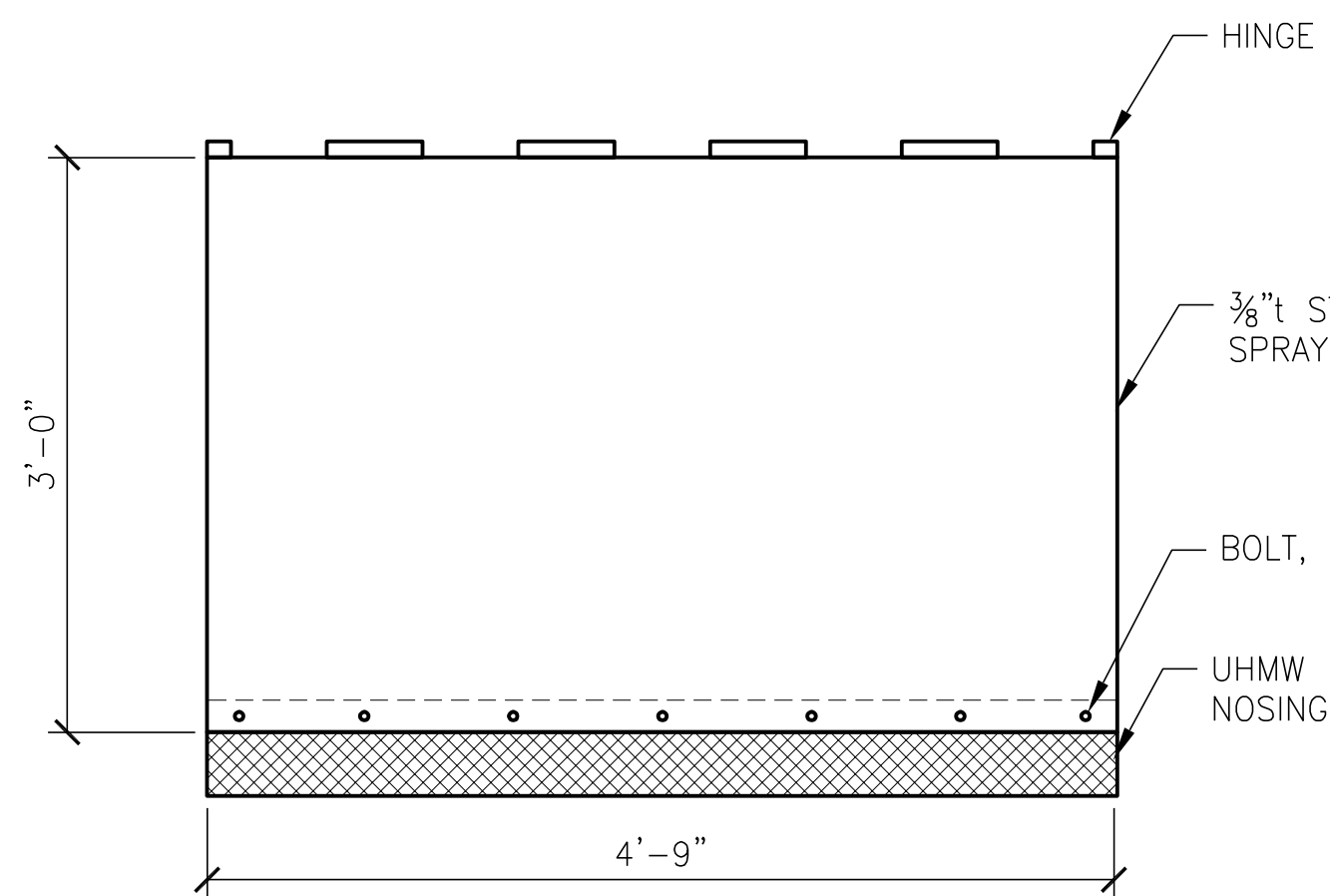
ALUMINUM WELD NOTE:  
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TOP



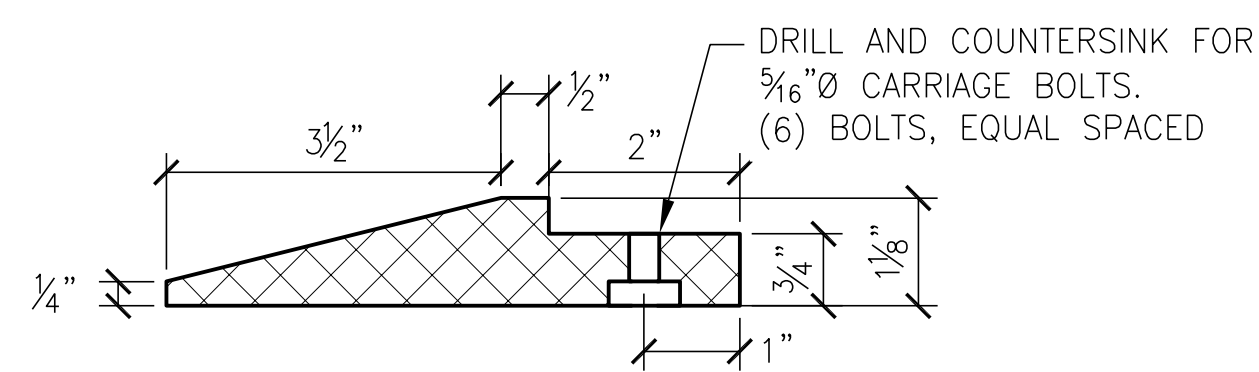
1 S502 GANGWAY END DETAIL  
1"=1'-0"



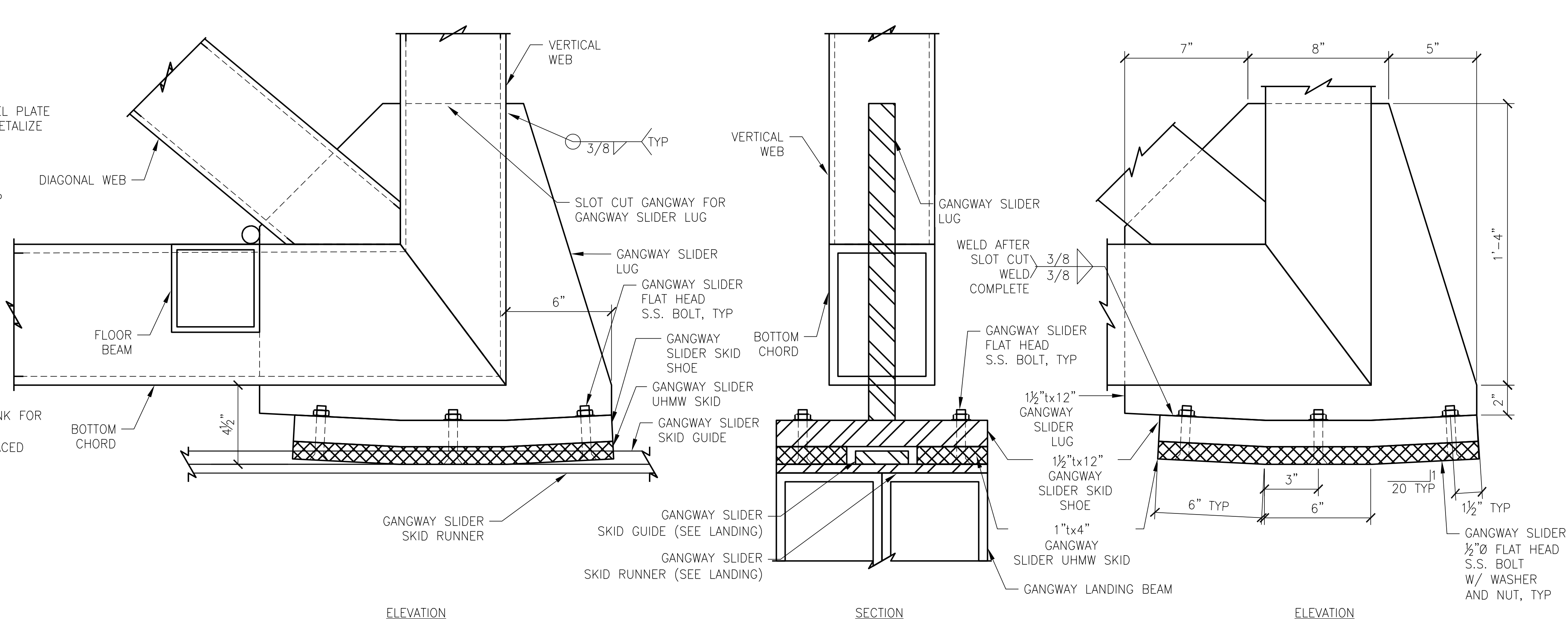
2 S502 GANGWAY END DETAIL  
1"=1'-0"



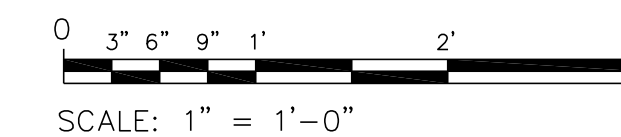
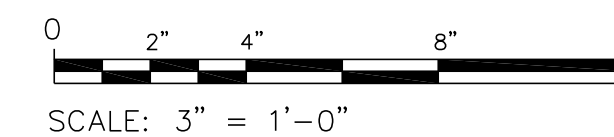
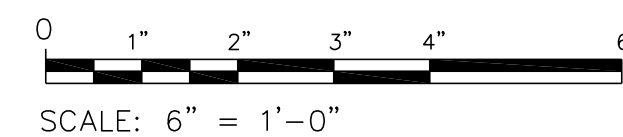
3 S502 GANGWAY TRANSITION PLATE DETAIL  
1/4"=1'-0"



4 S502 GANGWAY UHMW NOSING DETAIL  
6"=1'-0"



5 S502 GANGWAY SLIDER ASSEMBLY DETAIL  
3"=1'-0"



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SHT TITLE  
GANGWAY DETAILS

SHT NO  
8 OF 10

**S502**



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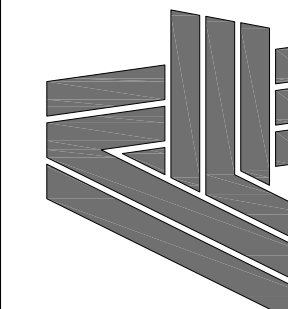
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SHT TITLE  
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SHT NO 9 OF 10

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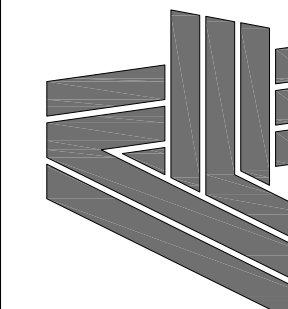
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