

# PROJECT TEAM

CONSTRUCTION CONTRACTOR:

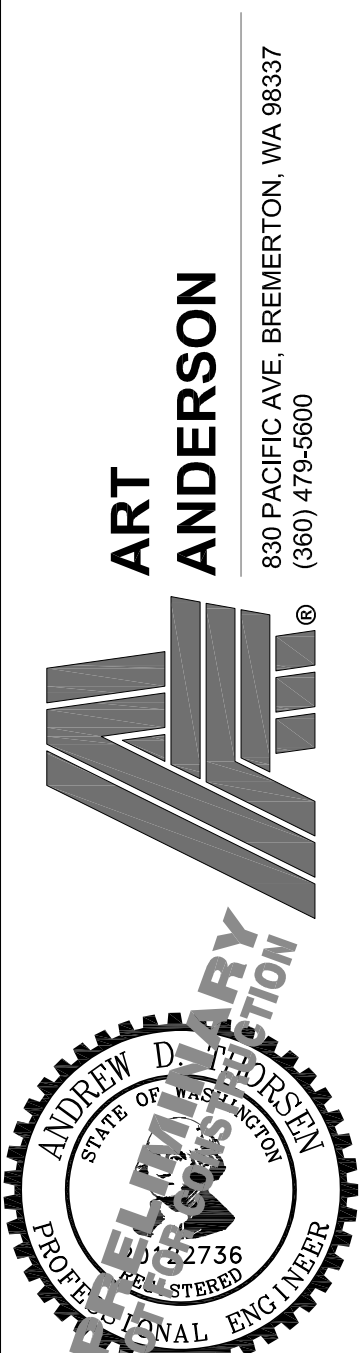
DESIGN ENGINEER:

ART ANDERSON ASSOCIATES, INC.  
830 PACIFIC AVE  
BREMERTON, WA 98337

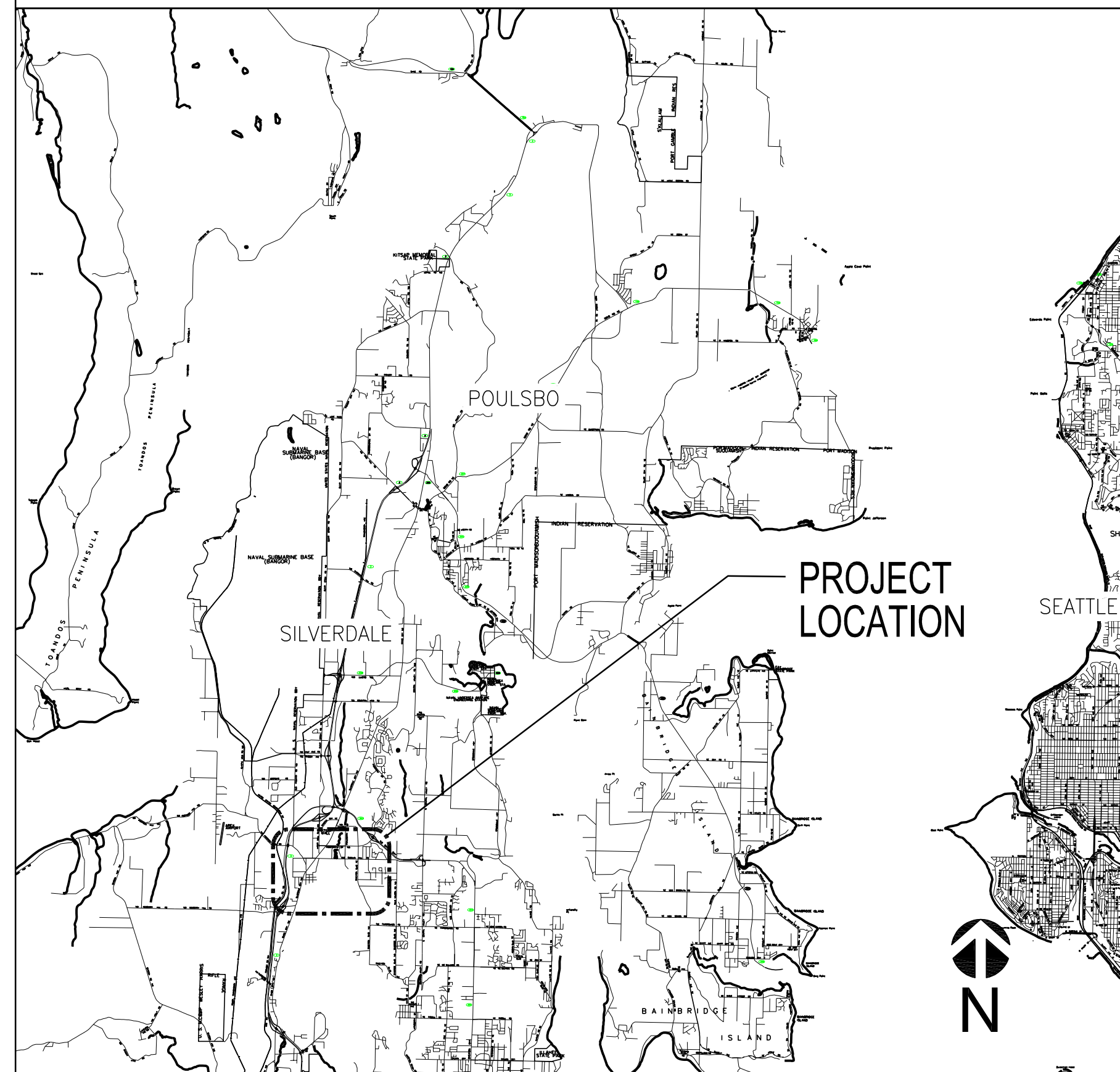


# PORT OF SILVERDALE MARINA RELOCATION DESIGN

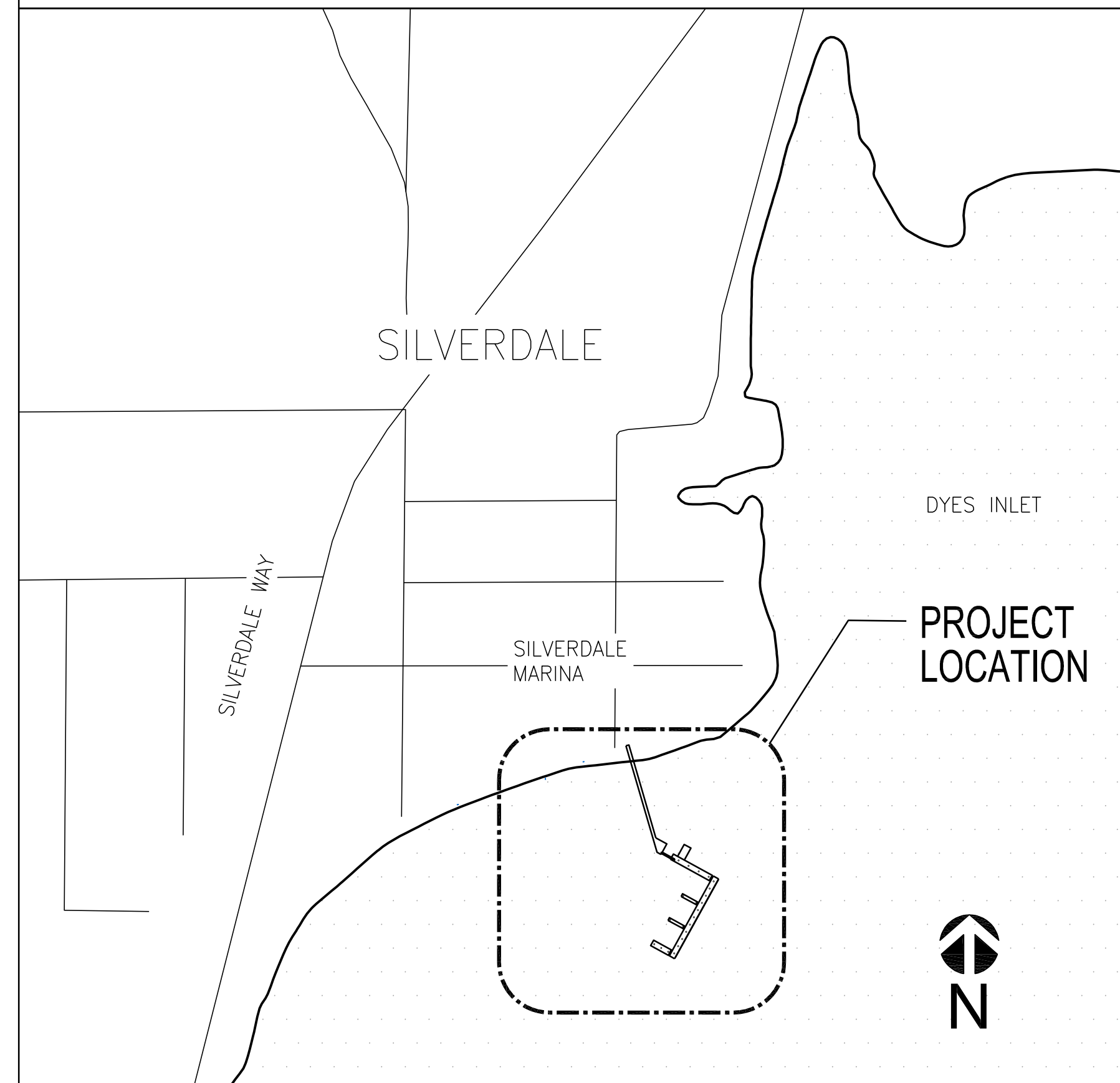
P.O. BOX 310  
SILVERDALE, WASHINGTON 98383



## VICINITY MAP



## LOCATION MAP



## SHEET INDEX

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**PREFINAL SUBMITTAL**

2023-JAN-31

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

DRAWN: MWM  
DESIGNED: ADT  
CHECKED: RBC

ISSUE DATE  
31 JAN 2023

REVISIONS

JOB NO  
FWPSI001.004

SHT TITLE  
TITLE SHEET, LOCATION  
MAPS, & PROJECT TEAM

SHT NO 1 OF 24

SHEET IS 22x34 ANSI D  
IF PRINTING 11x17 USE  
50% SCALE FACTOR

**G001**



## GENERAL NOTES

1. SURVEY
  - A. VERTICAL DATUM: MLLW
  - B. 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 (FLOAT): 40 PSF
  - b. UNIFORM LIVE LOAD (GANGWAY): 100 PSF STRUCTURALLY, 40 PSF FOR REACTION ON FLOAT
  - c. CONCENTRATED LIVE LOAD: 400 LBS POINT LOAD AT CRITICAL LOCATION, MIN 12" FROM FLOAT EDGE
  - d. HANDRAILS AND GUARDS: 50 LBS PER LINEAL FOOT LATERAL, 200 LBS CONCENTRATED LOAD AT ANY POINT
3. WIND LOADS:
  - a. BASIC WIND SPEED  $V = 97$  MPH (700 YEAR RETURN, 3 SECOND GUST)
  - b. EXPOSURE: D
4. CURRENT LOAD:
  - a. 1.5 KNOTS, ESTIMATED TIDAL CURRENT
5. WAVE LOAD

## DESIGN CRITERIA (CONT)

	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

6. SEISMIC
  - a.  $S_s = 1.5$
  - b.  $S_1 = 0.53$
  - c. SITE SOIL CLASS: D
  - d.  $S_{ds} = 1$
  - e.  $S_{d1} = 0.625$
  - f. SEISMIC DESIGN CATEGORY: D
  - g.  $R = 1.25$  (GANGWAY SUPPORT PILES)
7. LEVEL TOLERANCES:
  - a. MAX CROSS SLOPE = 1:50
8. FLOAT FREEBOARD:
  - a. DEAD LOAD ONLY: 18" MAX
  - b. DEAD LOAD + LIVE LOAD: 10" MIN
  - c. FREEBOARD SUPPLIED SHALL BE DETERMINED UNDER DEAD LOAD BY MEASUREMENTS AT 20-FOOT INCREMENTS AROUND THE PERIMETER OF THE FLOATS. THE AVERAGE OF ALL MEASUREMENTS SHALL BE THE FREEBOARD SUPPLIED. ANY FREEBOARD MEASUREMENT SHALL NOT VARY FROM THE AVERAGE BY +/- 1 INCH.

### ALUMINUM

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

### GRATING

1. 1-1/2" DEEP 3/4" MINIMESH ADA COMPLIANT FRP GRATING.

### STEEL

1. PILES: ASTM A252, GR 3, FY = 45 KSI
2. PLATE, ANGLES: ASTM A36, FY = 36 KSI
3. W: ASTM A992 FY = 50 KSI
4. TUBE: ASTM A500 Gr B FY = 46 KSI
5. 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 - WOOD SHALL BE PRESSURE TREATED WITH ACZA OR OTHER WATERBORNE PRESERVATIVE APPROVED BY THE WESTERN WOOD PRESERVERS INSTITUTE (WWPI), FOLLOWING THE MINIMUM PRESERVATIVE PENETRATION AND RETENTION REQUIREMENTS IN ACCORDANCE WITH THE LATEST EDITION OF AWPA STANDARD U1, COMMODITY SPECIFICATION G, USE CATEGORY 5A. FOLLOW WWPI GUIDELINES AND BEST MANAGEMENT PRACTICES (BMPS) TO MINIMIZE MIGRATION AND LEACHING. THE PRODUCER OF THE TREATED WOOD PRODUCTS MUST PROVIDE CERTIFICATION THAT WWPI BMPS FOR THE USE OF WOOD TREATED IN AQUATIC AND WETLAND ENVIRONMENTS WERE UTILIZED INCLUDING A WRITTEN DESCRIPTION AND APPROPRIATE DOCUMENTATION OF THE BMPS UTILIZED.
4. CUT, BEVEL, AND FACE TIMBER PRIOR TO PLANT PRESERVATIVE TREATMENT
5. CONNECTION HARDWARE - HARDWARE MUST CONSIST OF BOLTS WITH NECESSARY NUTS AND WASHERS, DRIFT PINS, DOWELS, NAILS, SCREWS, SPIKES, AND OTHER FASTENINGS. BOLTS AND NUTS MUST CONFORM TO ASTM A307. HOT-DIP GALVANIZE ALL HARDWARE SPECIFIED OR INDICATED IN ACCORDANCE WITH ASTM A123 OR ASTM A153.

### FLOATING DOCK

1. FLOATING DOCK SYSTEM SHALL BE MANUFACTURED BY A FIRM WITH A MINIMUM EXPERIENCE OF FIVE YEARS IN DESIGNING, ENGINEERING AND MANUFACTURING UNITS CONFORMING TO THESE SPECIFICATIONS.
2. THE MANUFACTURER SHALL PROVIDE ALL MATERIALS WHICH EITHER EQUAL OR EXCEED THE QUALITY OF THE MATERIALS SPECIFIED. THE FLOATING PIER SYSTEM SHALL HAVE THE LAYOUT, DIMENSIONS, MATERIALS, AND OVERALL CONFIGURATION SHOWN ON THESE PLANS.
3. THE MANUFACTURER SHALL BE RESPONSIBLE FOR DESIGNING THE

## DESIGN CRITERIA (CONT)

FLOATING PIER STRUCTURE CONFORMING TO THE DIMENSIONS SHOWN ON THE PLANS, SERVICEABILITY ACCORDING TO THE INTENDED USE AND CRITERIA SHOWN ON THESE NOTES. THE MANUFACTURER SHALL PRODUCE ENGINEERED DRAWINGS (SHOP DRAWINGS).

4. FLOATATION SHALL HAVE AN IMPACT RESISTANT DURABLE COVERING. NO HOLLOW FLOAT MODULES SHALL BE ALLOWED.
5. FOAM: CLOSED CELL CORROSION PROOF EXPANDED RIGID CELLULAR POLYSTYRENE FOAM, ASTM C578, SNUGLY FITTED INTO POLYETHYLENE PONTOONS. THE DENSITY OF THE POLYSTYRENE SHALL BE BETWEEN 0.9 AND 1.1 POUNDS PER CUBIC FOOT. FOAM ABSORPTION SHALL BE LESS THAN 2% BY VOLUME -ASTM C272.
6. THE FLOATING DOCK MANUFACTURER SHALL FURNISH A WRITTEN WARRANTY TO THE PORT OF SILVERDALE. THIS WARRANTY SHALL WARRANT THE FLOATING DOCK SYSTEM FREE OF DEFECTS AS SET FORTH BELOW:
  - a. POLYETHYLENE FLOATATION: MOLDED CROSS-LINKED POLYETHYLENE FLOATATION UNITS SHALL BE GUARANTEED BY THE FLOATING DOCK MANUFACTURER AGAINST DEFECTS IN MATERIAL OR WORKMANSHIP, AGAINST DETERIORATION DUE TO CHEMICAL ACTION OF SEA WATER, FRESH WATER, AND WATERBORNE CHEMICALS; AGAINST FAILURE FROM ULTRA-VIOLET DEGRADATION; AGAINST FAILURE FROM ENVIRONMENTAL STRESS CRACKING; AND AGAINST ATTACH FROM MARINE ORGANISMS FOR A PERIOD OF 10 YEARS FROM THE DATE OF SHIPMENT. SUBMIT MANUFACTURER'S GUARANTEE.
  - b. THE FLOATING PIER MANUFACTURER SHALL WARRANT TO THE PORT OF SILVERDALE THE FLOATING PIER STRUCTURE TO BE FREE FROM DEFECTS IN DESIGN, MATERIAL, AND WORKMANSHIP UNDER NORMAL USE AND SERVICE. AT ANY TIME WITHIN ONE YEAR FROM THE DATE OF COMPLETION, THE MANUFACTURER SHALL FURNISH AND INSTALL, WITHOUT COST TO THE PORT OF SILVERDALE ANY PART, ASSEMBLY, OR PORTION THEREOF WHICH EXAMINATION SHALL DISCLOSE TO BE DEFECTIVE OF FAILED TO FUNCTION AS INTENDED. THE GUARANTEE PERIOD SHALL BE FOR A PERIOD OF ONE YEAR FROM THE DATE ON WHICH THE COMPLETED WORK IS TURNED OVER TO AND ACCEPTED BY THE PORT OF SILVERDALE.
7. THE FLOATING DOCK SYSTEM'S INSTALLATION SHALL BE UNDER THE STRICT SUPERVISION OF AN EXPERIENCED AND COMPETENT MANUFACTURER'S REPRESENTATIVE. INFORMATION REGARDING THE REPRESENTATIVE'S EXPERIENCE AND COMPETENCY IN THIS LINE OF WORK SHALL BE SUBMITTED TO THE ENGINEER.
8. THE FLOATING DOCK SYSTEM SHALL BE UNLOADED, ASSEMBLED AND FLOATED AT THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF ALL COMPONENTS OF THE STRUCTURE WHILE AT THE ASSEMBLY SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSPORTING THE STRUCTURE, IN WHATEVER STATE OF DISASSEMBLY IS NECESSARY, TO THE FINAL SITE. THE FLOATING STRUCTURE SHALL BE SECURED BY THE CONTRACTOR TO AVOID DAMAGE UNTIL PERMANENT CONNECTIONS TO THE ANCHORAGES ARE MADE. RESPONSIBILITY FOR THE STRUCTURE SHALL REMAIN WITH THE CONTRACTOR UNTIL ACCEPTANCE BY THE PORT OF SILVERDALE.

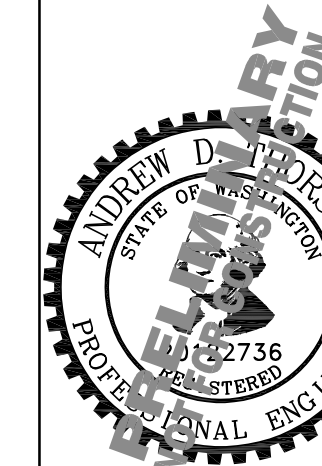
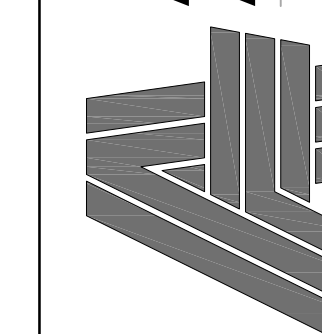
## ABBREVIATIONS

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

ART  
ANDERSON  
830 PACIFIC AVE. BREMERTON, WA 98537  
(360) 479-5600



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

DRAWN: MWM

DESIGNED: ADT

CHECKED: RBC

ISSUE DATE  
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REVISIONS

JOB NO  
FWPSI001.004

SHT TITLE  
DRAWING INDEX, NOTES,  
ABBREVIATIONS, &  
LEGEND

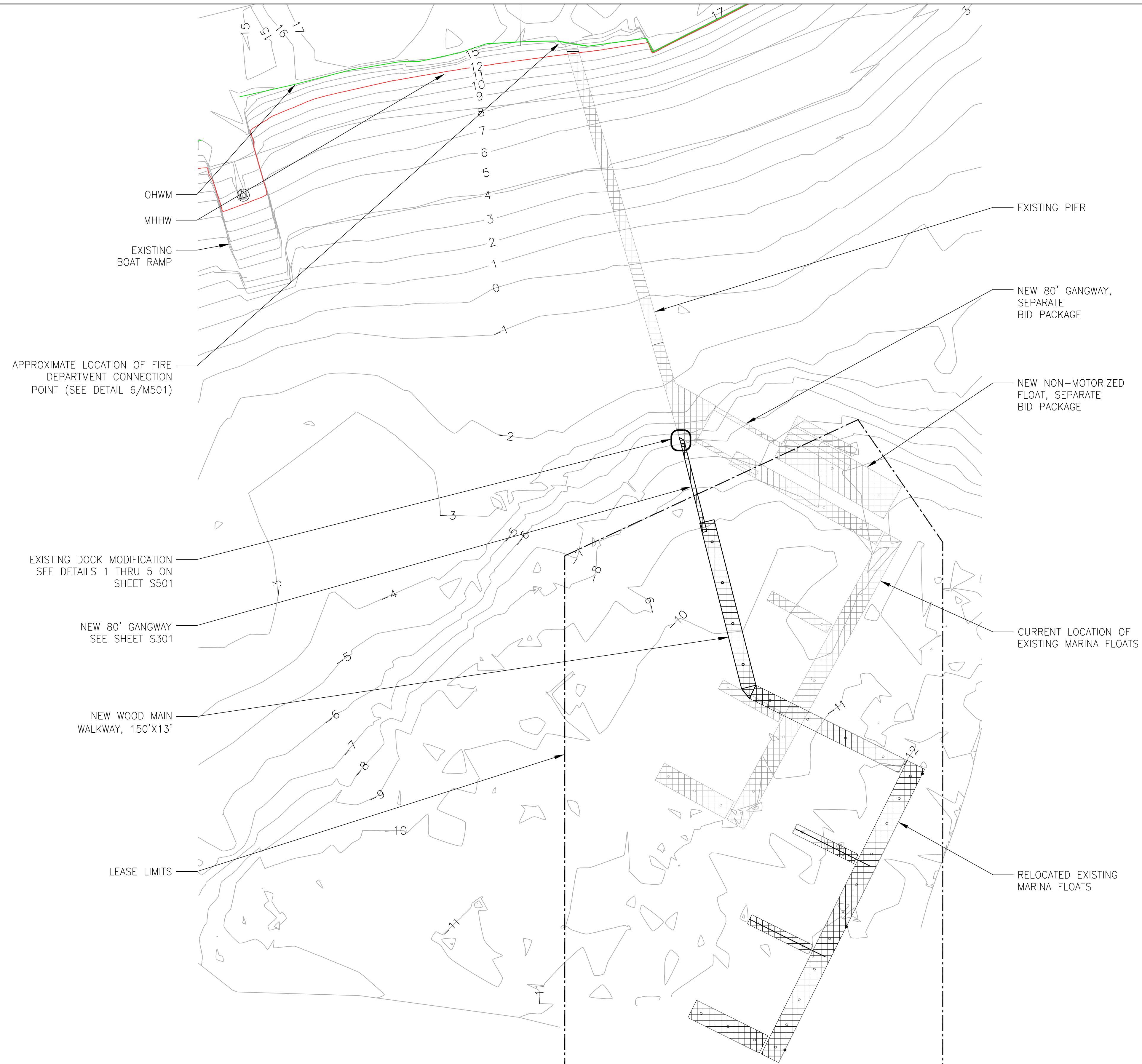
SHT NO 2 OF 24

**PREFINAL SUBMITTAL**

2023-JAN-31

SHEET IS 22x34 ANSI D  
IF PRINTING 11x17 USE  
50% SCALE FACTOR

**G002**



OHWM  
MHHW  
EXISTING BOAT RAMP

APPROXIMATE LOCATION OF FIRE DEPARTMENT CONNECTION POINT (SEE DETAIL 6/M501)

EXISTING DOCK MODIFICATION SEE DETAILS 1 THRU 5 ON SHEET S501

NEW 80' GANGWAY SEE SHEET S301

NEW WOOD MAIN WALKWAY, 150'X13'

LEASE LIMITS

EXISTING PIER

NEW 80' GANGWAY, SEPARATE BID PACKAGE

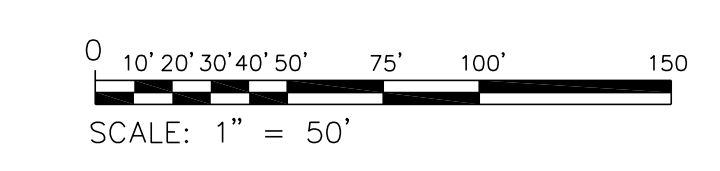
NEW NON-MOTORIZED FLOAT, SEPARATE BID PACKAGE

CURRENT LOCATION OF EXISTING MARINA FLOATS

RELOCATED EXISTING MARINA FLOATS

**1** MARINA PLAN  
SCALE: 1" = 50'-0"

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**ART ANDERSON**  
830 PACIFIC AVE. BREMERTON, WA 98337  
(360) 479-5600

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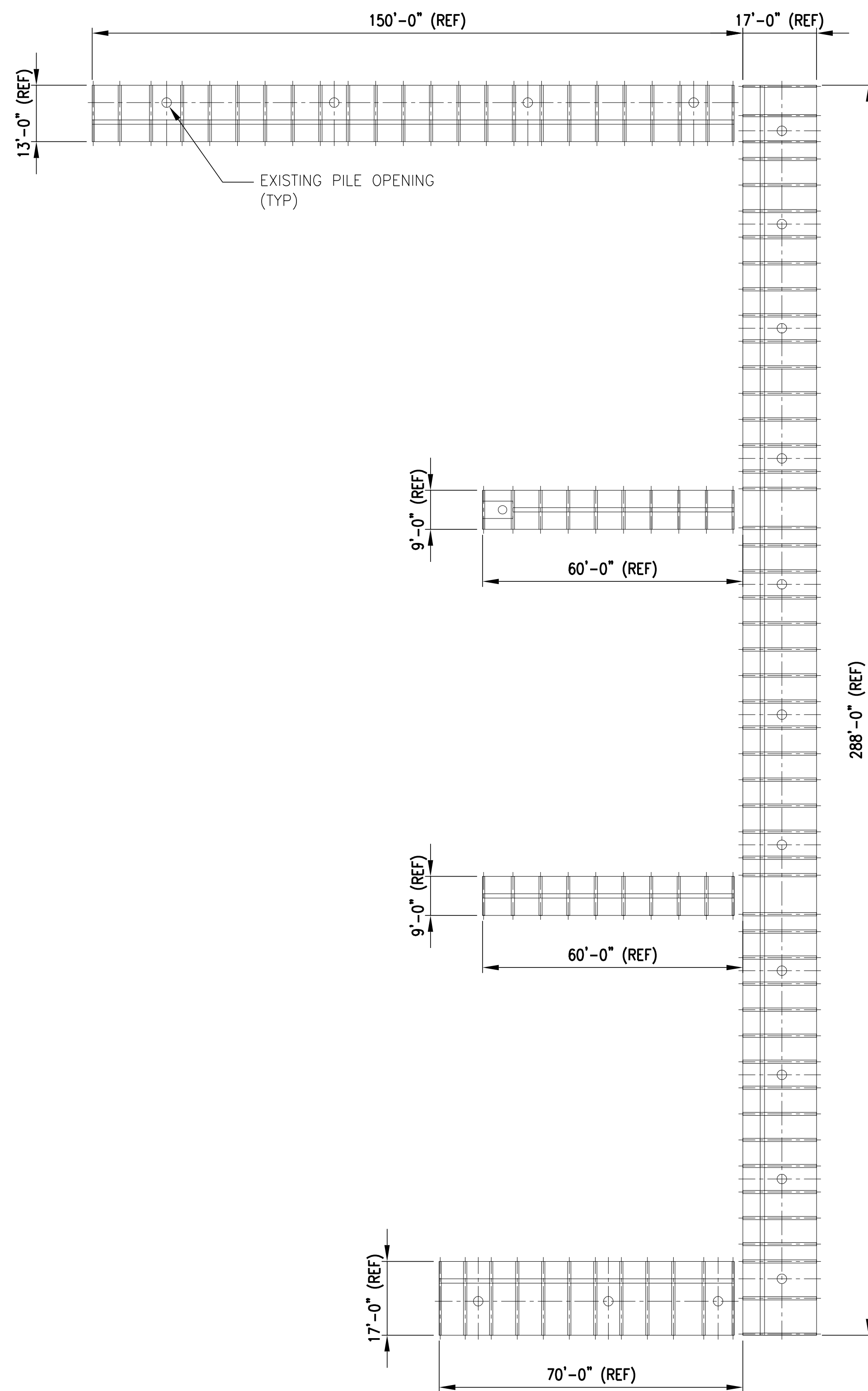
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SHT TITLE  
MARINA PLAN

SHT NO 3 OF 24

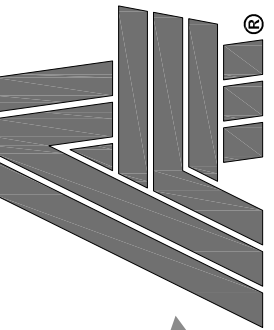
**S101**



**SHEET NOTES**

1. SEE AS-BUILT FLOAT DRAWINGS, BY MARINA VENTURES, DATED 6-23-1986, FOR ADDITIONAL DETAILS.
2. FIELD VERIFY DIMENSIONS OF EXISTING MARINA FLOATS. USE EXISTING PILE GUIDE OPENINGS AS TEMPLATE TO DRIVE NEW STEEL PILES, 24"x0.500". DISPOSE OF EXISTING PILES.

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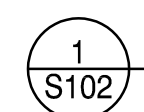
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RELOCATED FLOATS  
PLAN

SHT NO 4 OF 24

**S102**

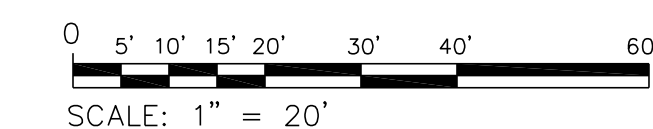
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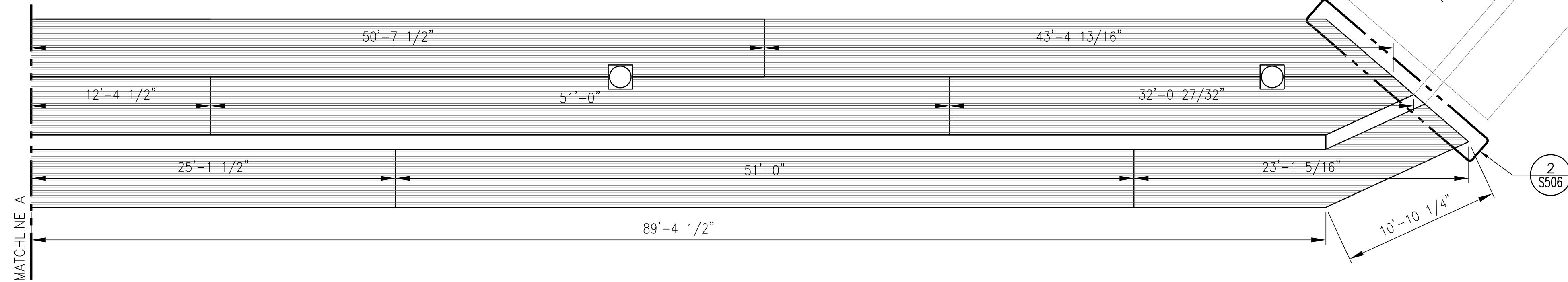
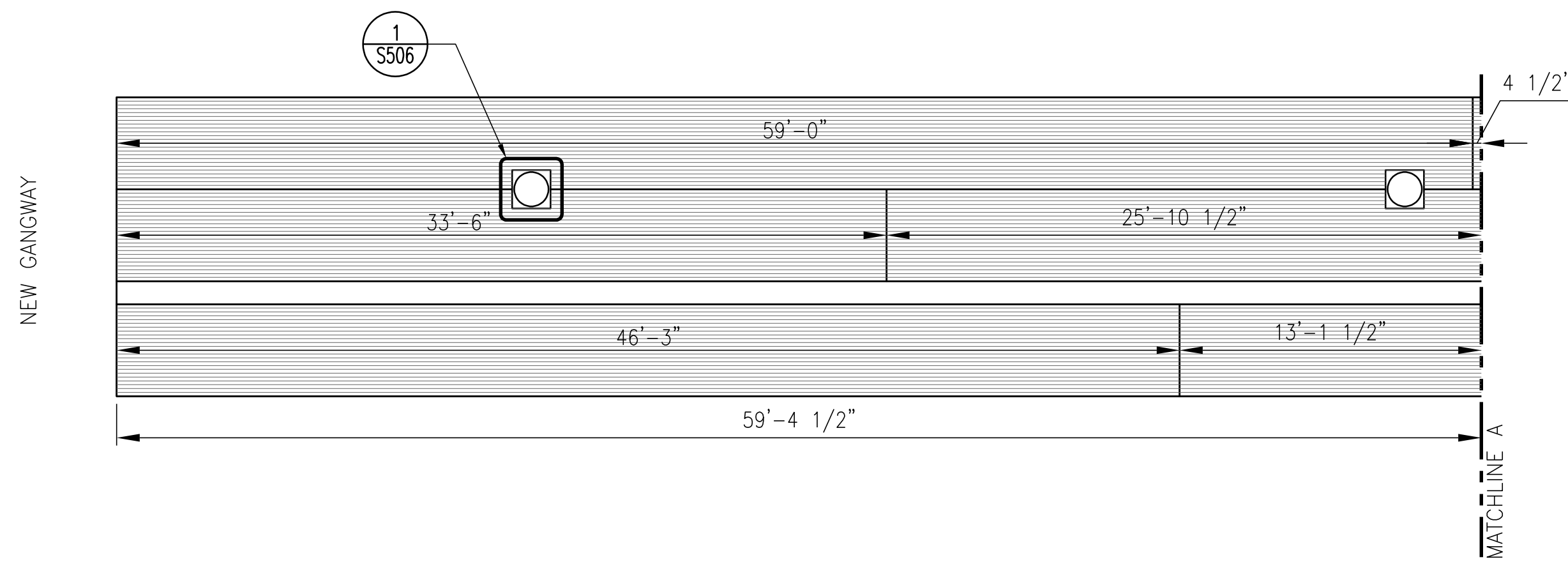
**EXISTING FLOATS TO BE RELOCATED PLAN**

SCALE: 1" = 20'-0"

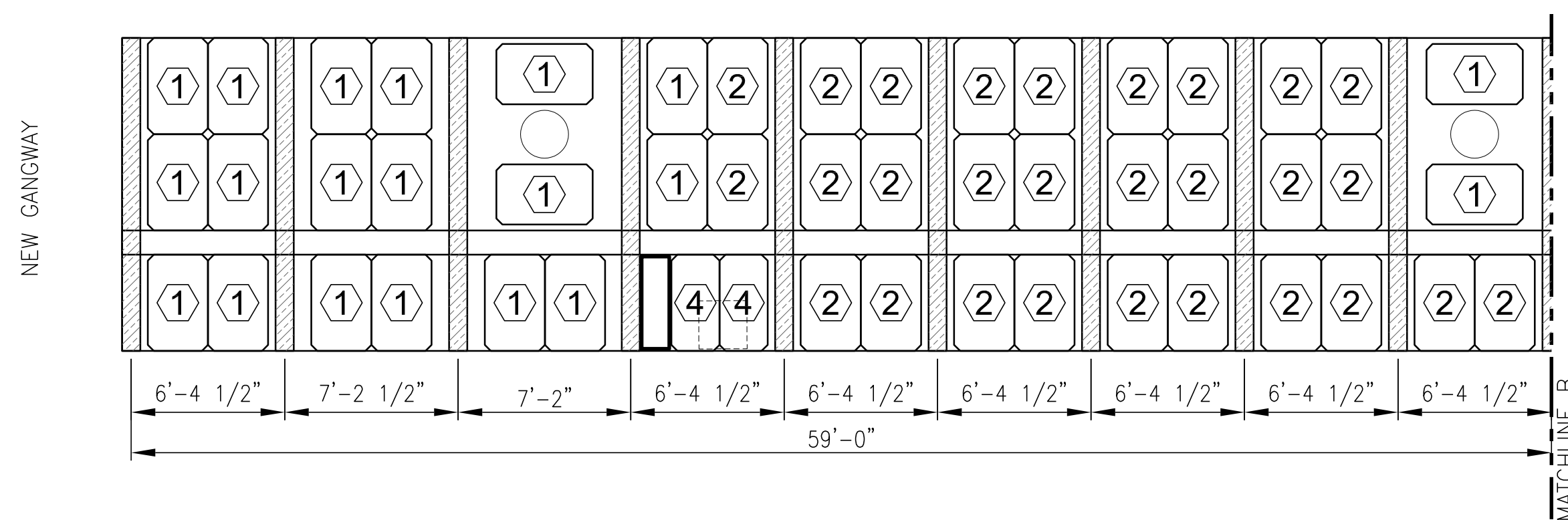


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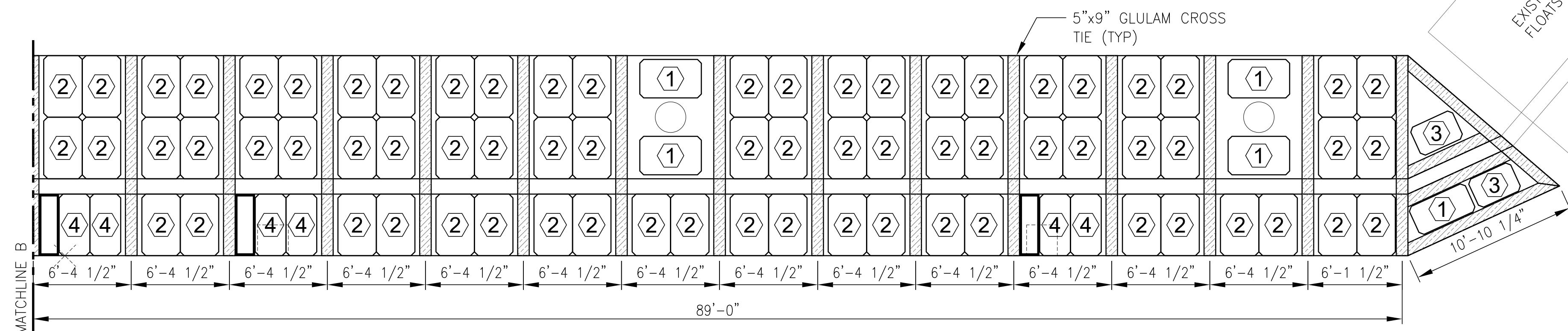


**1 DECKING PLAN**  
SCALE: 3/16" = 1'-0"



**PONTOON DIMENSION KEY**

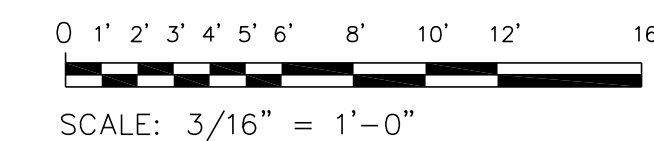
- ① 2.5'x4'x30" PONTOON
- ② 2.5'x4'x20" PONTOON
- ③ 2.5'x3'x30" PONTOON
- ④ 2'x4'x30" PONTOON



**2 FRAMING PLAN**  
SCALE: 3/16" = 1'-0"

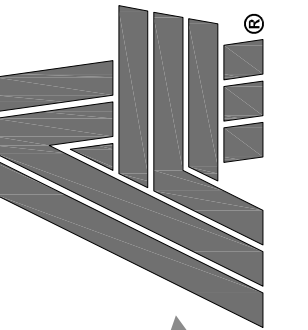
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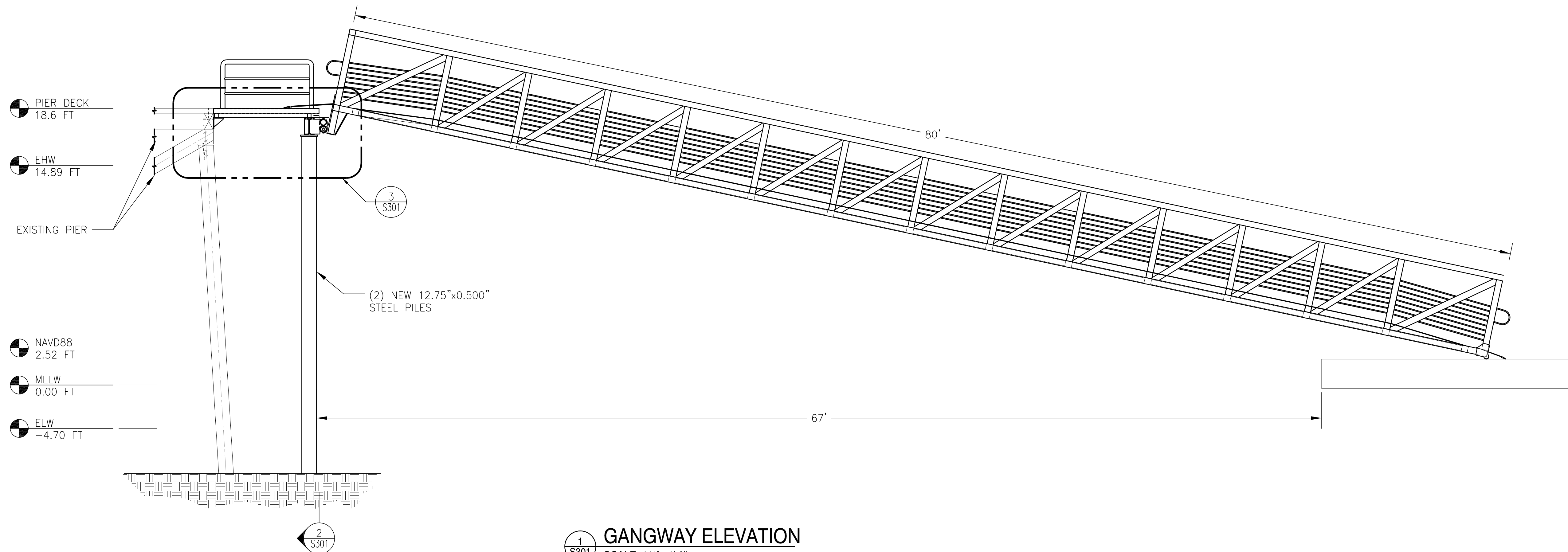
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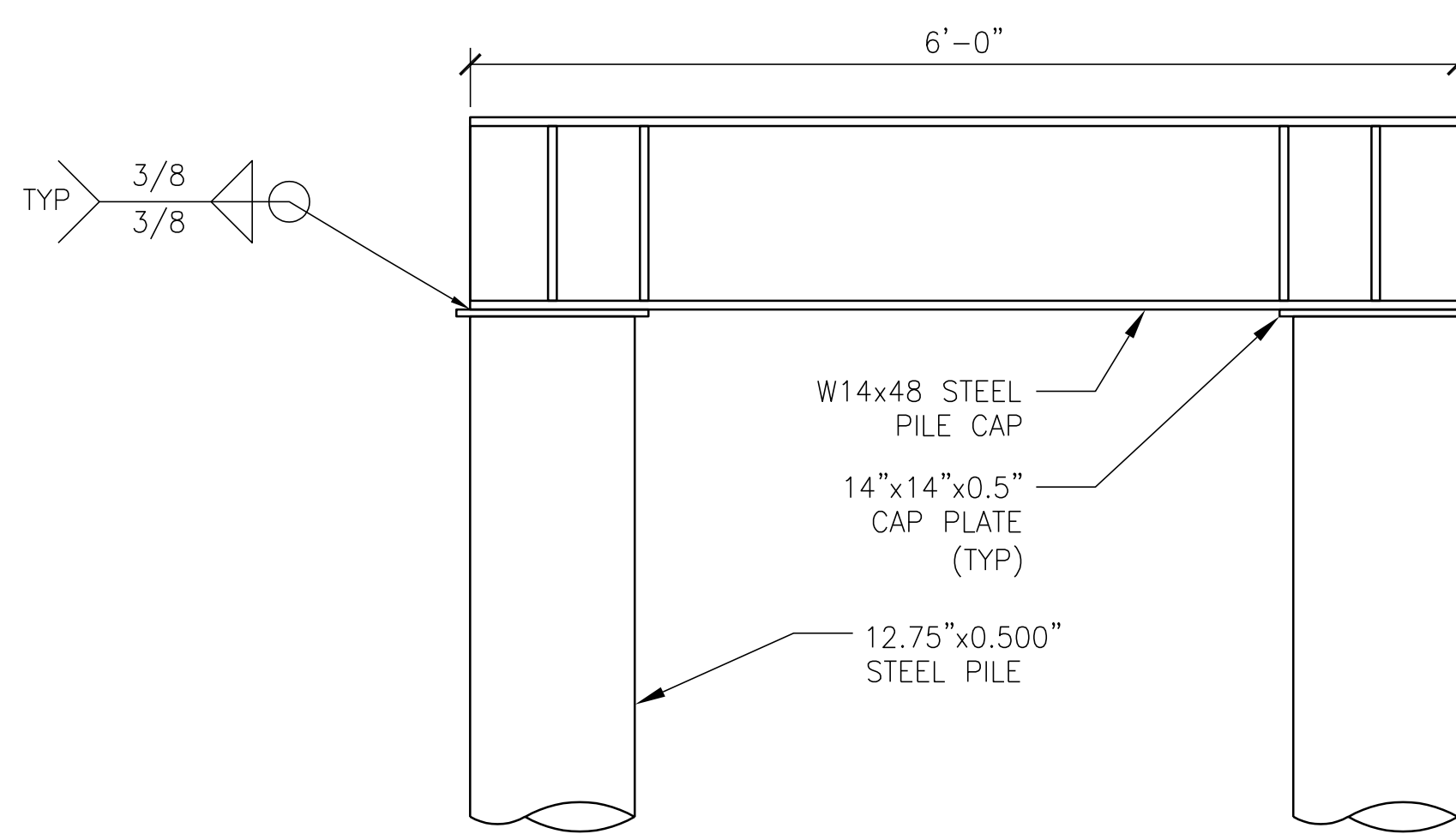
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FLOAT DECKING AND  
FRAMING PLANS

SHT NO 5 OF 24

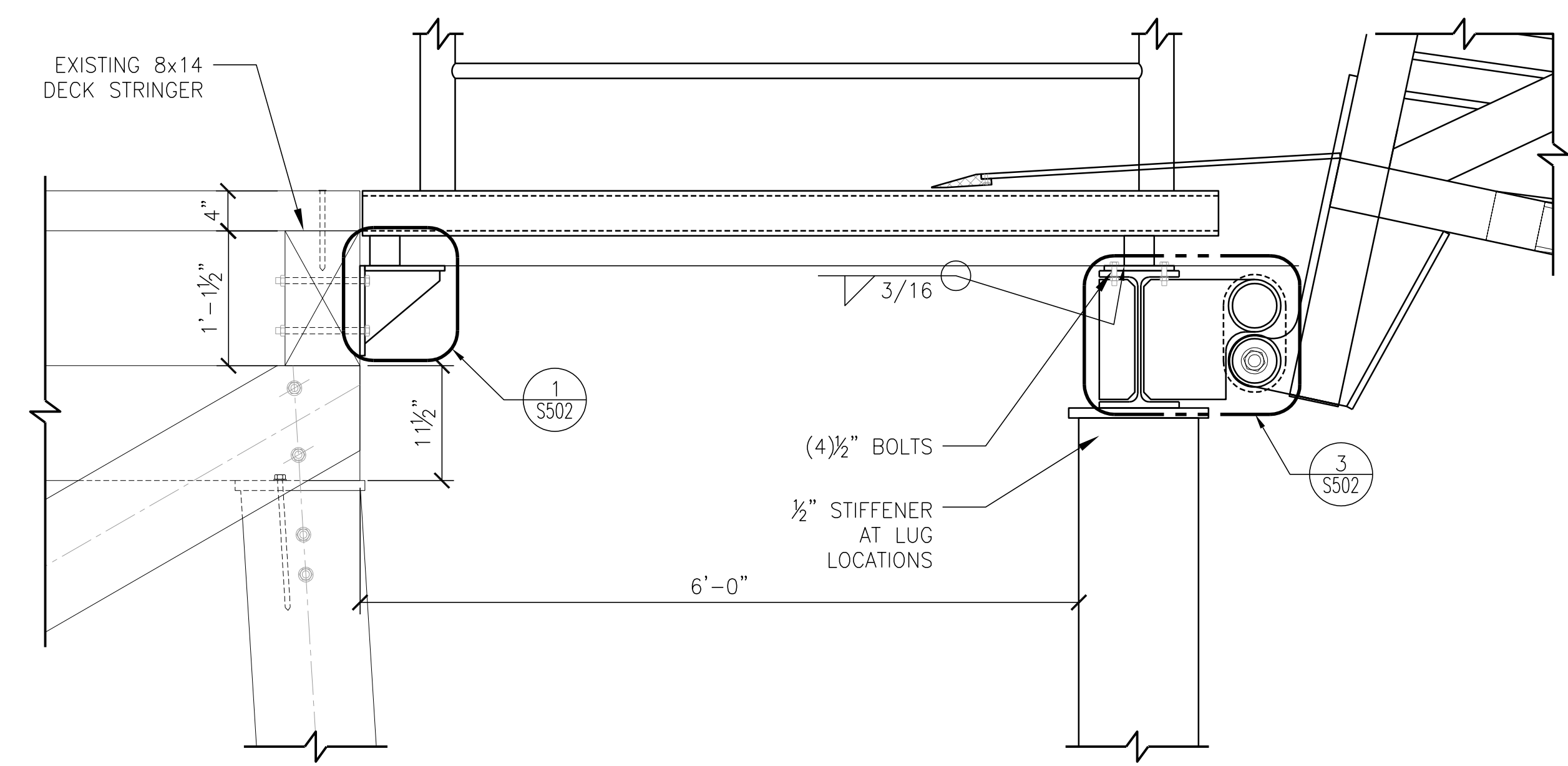
**S201**



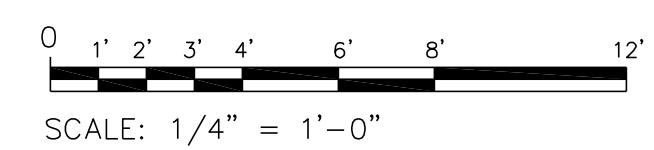
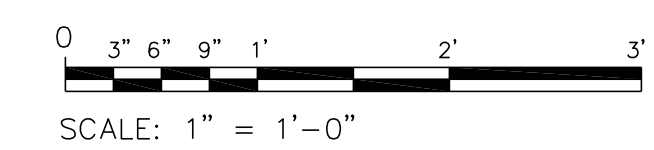
**1 GANGWAY ELEVATION**  
SCALE: 1/4" = 1'-0"



**2 SECTION**  
SCALE: 1" = 1'-0"



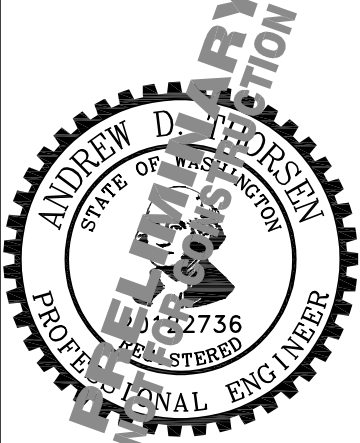
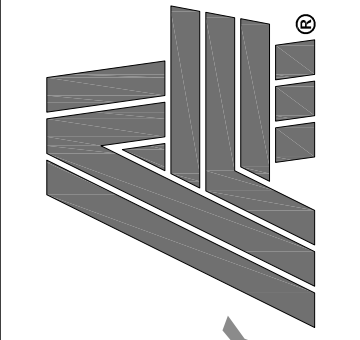
**3 MOTORIZED FLOAT GANGWAY CONNECTION DETAIL**  
SCALE: 1" = 1'-0"



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REVISIONS

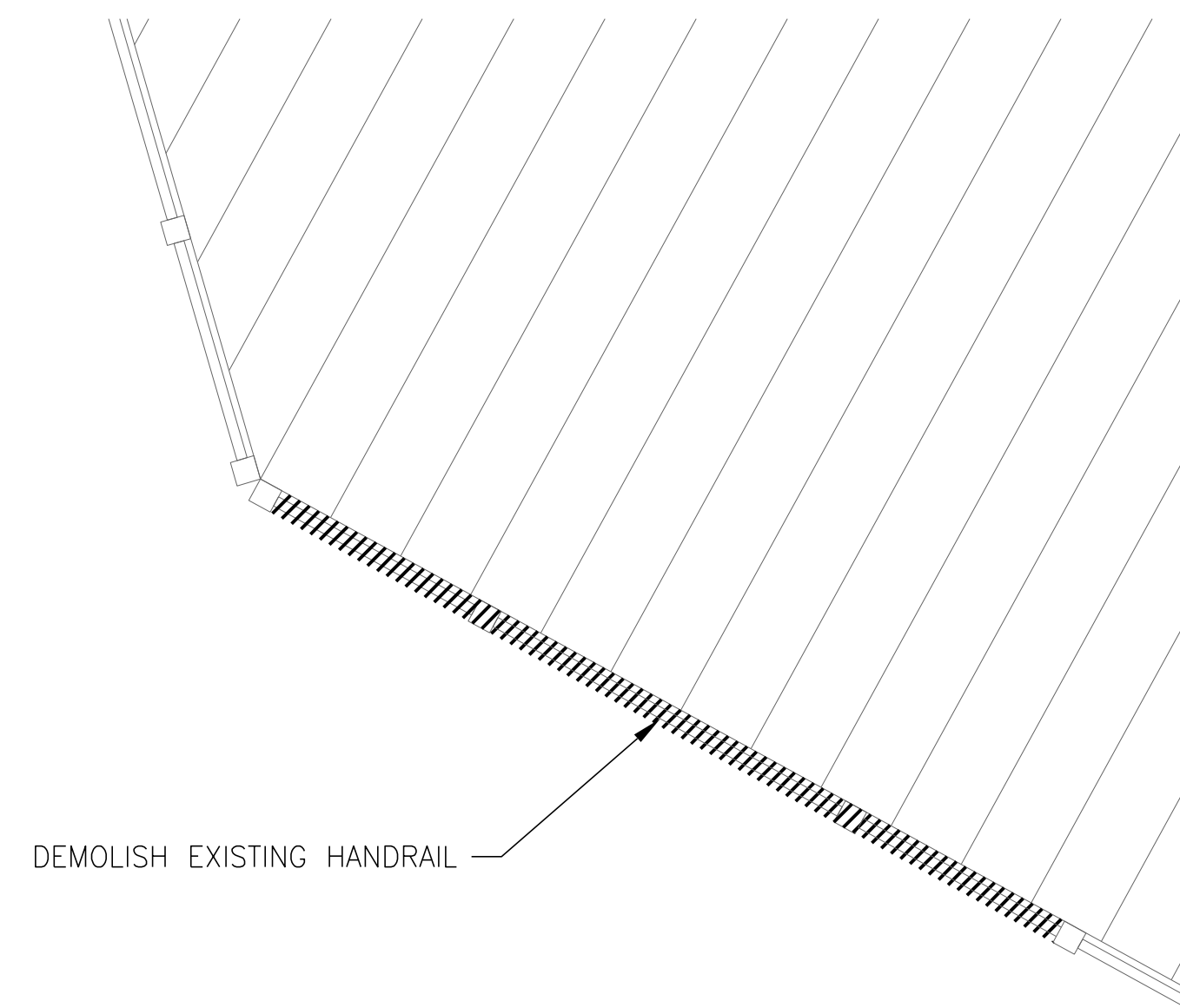
JOB NO  
FWPSI001.004

SHT TITLE  
GANGWAY CONNECTION  
SECTIONS AND  
ELEVATIONS

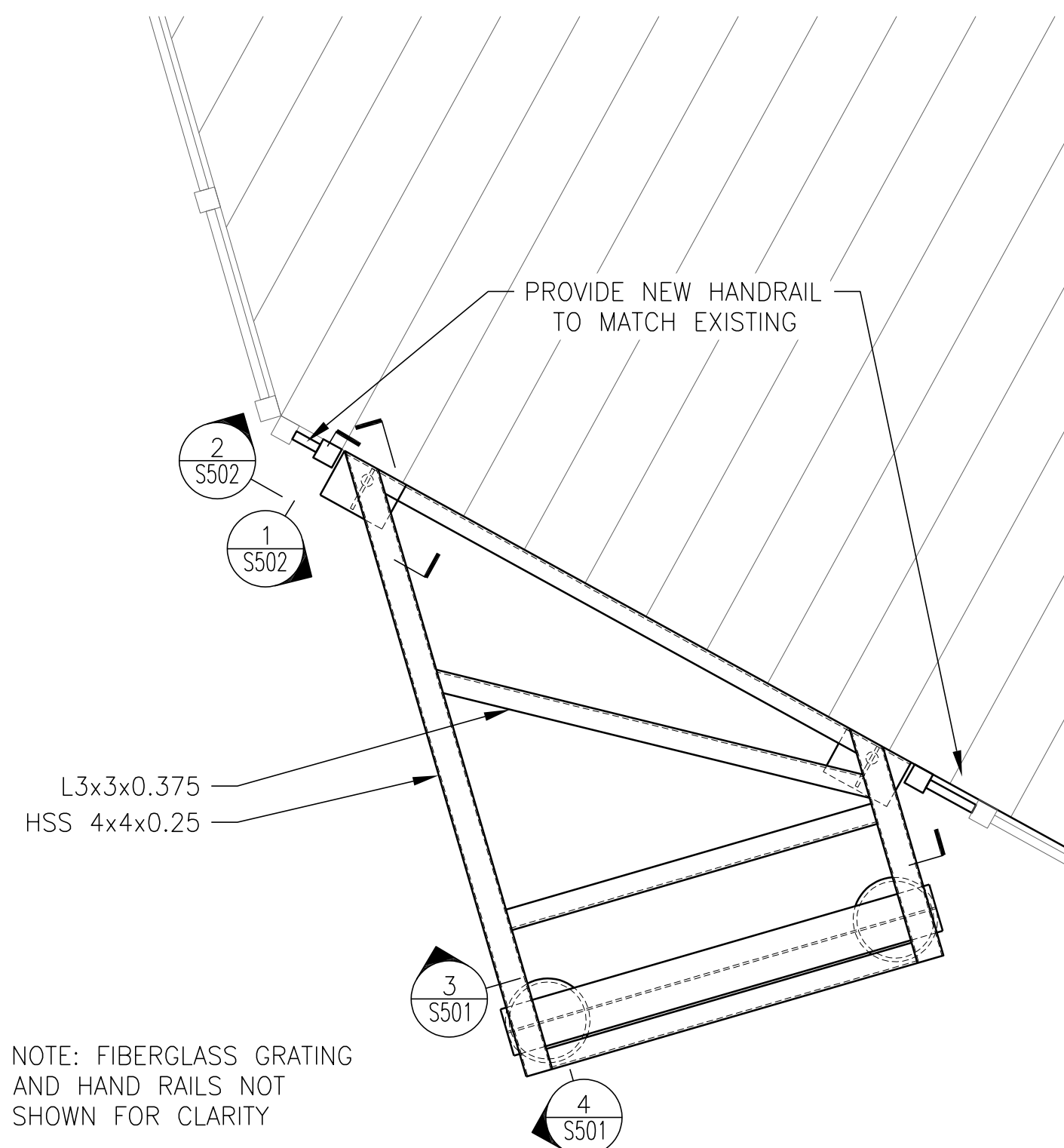
SHT NO  
6 OF 24

**S301**

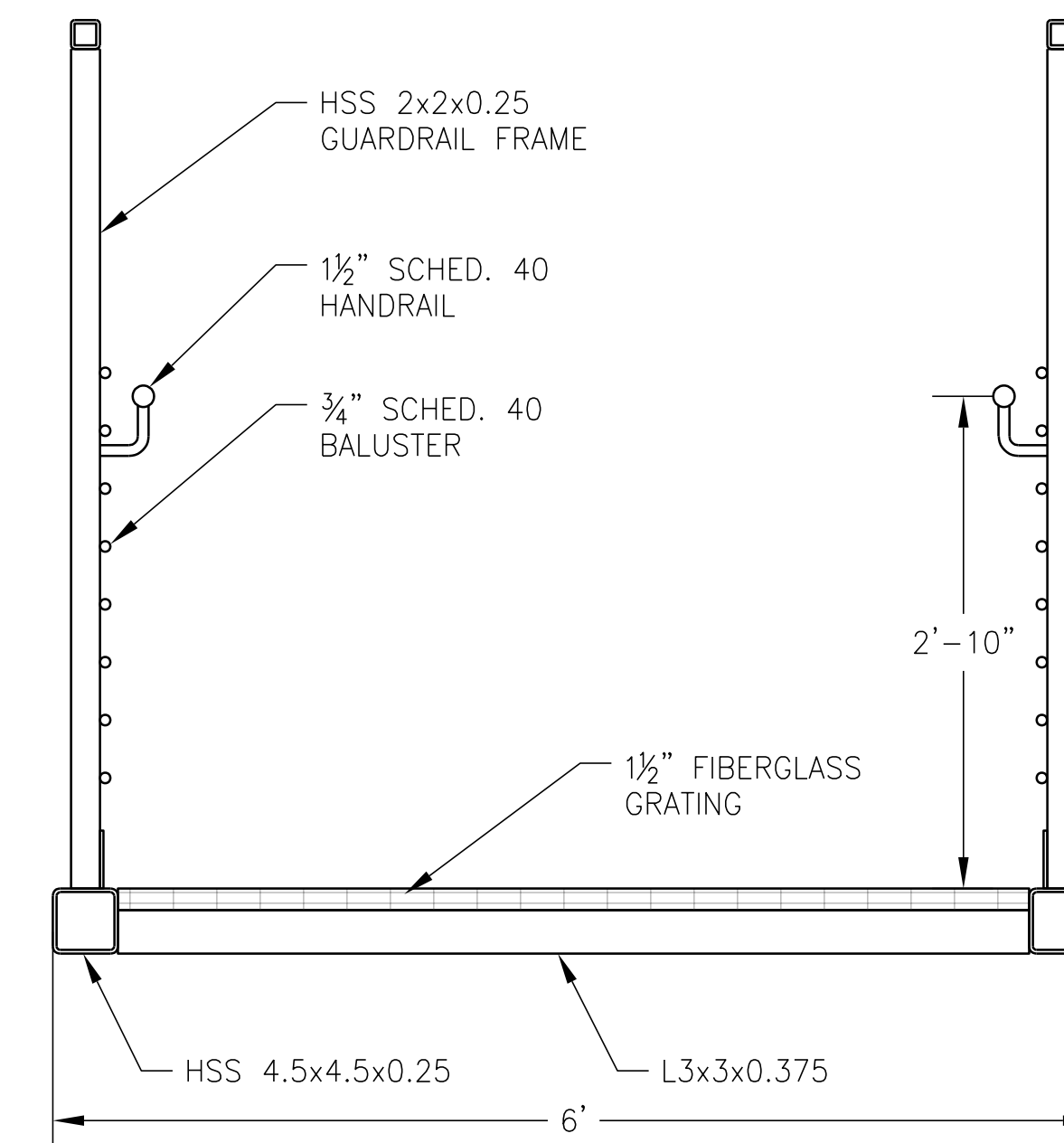




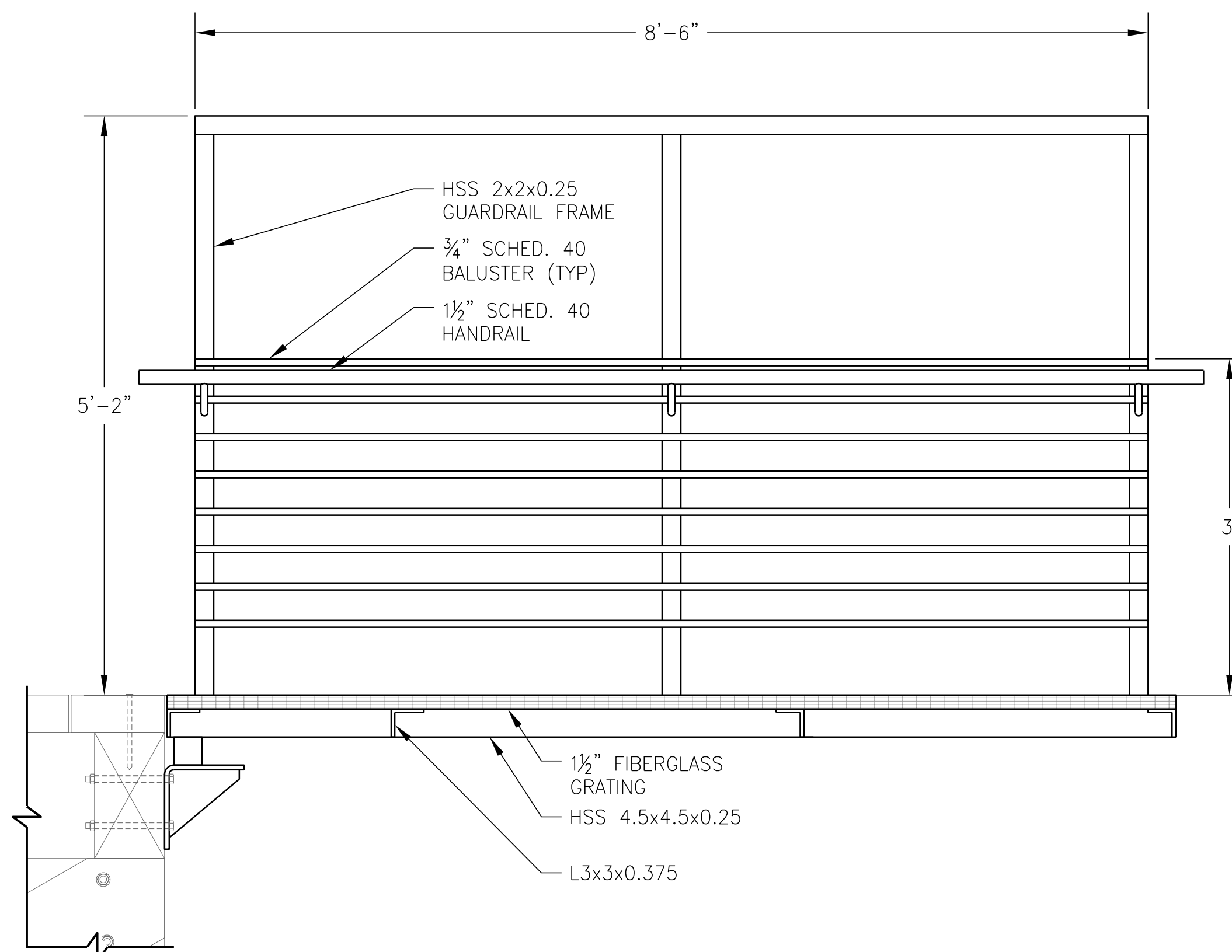
1 S501 PIER DEMOLITION PLAN  
SCALE: 1/2" = 1'-0"



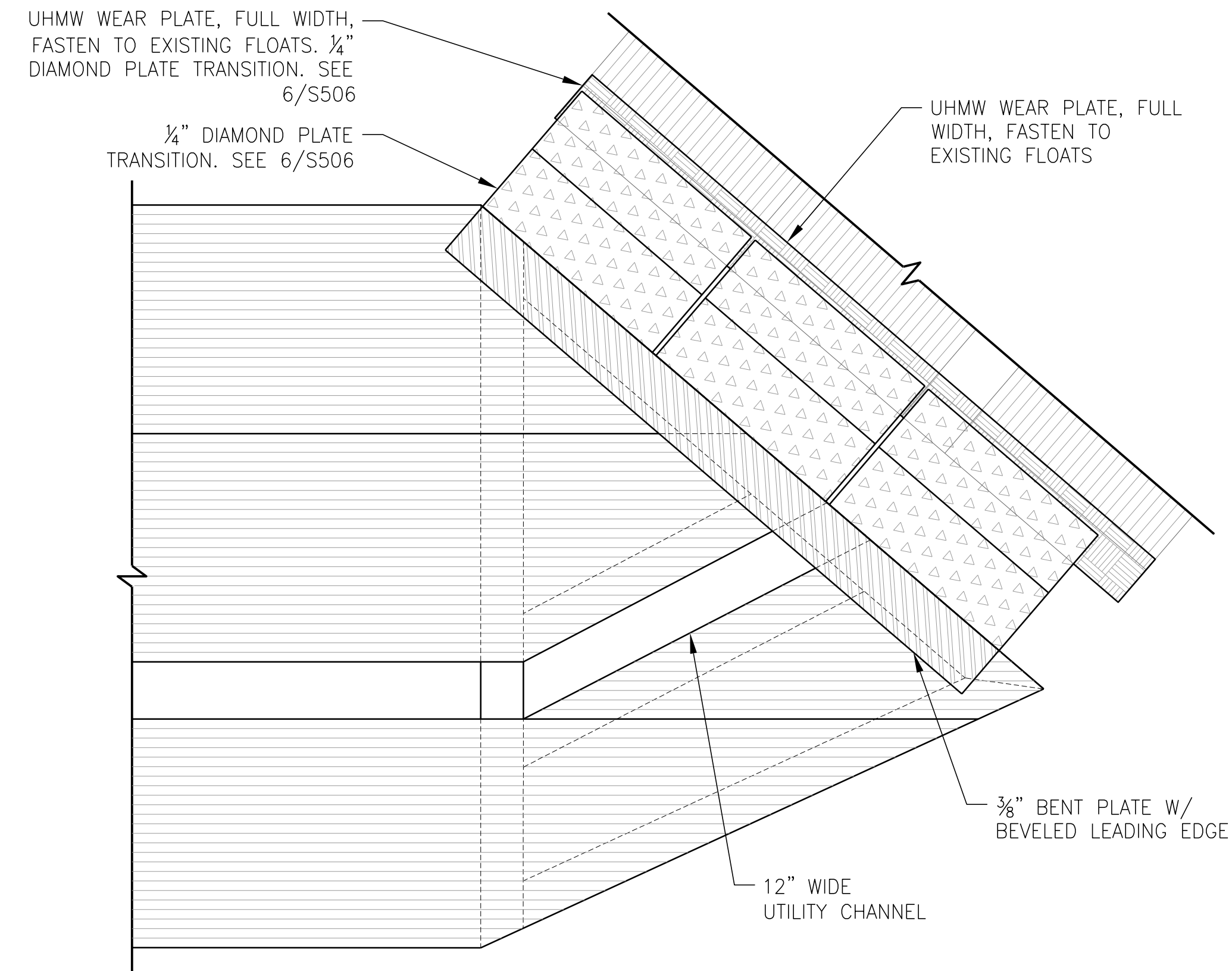
2 S501 PIER EXTENSION PLAN  
SCALE: 1/2" = 1'-0"



3 S501 PIER EXTENSION SECTION  
SCALE: 1" = 1'-0"

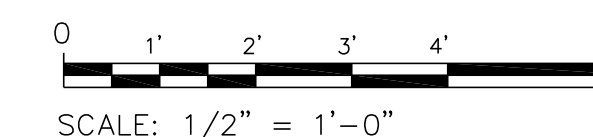
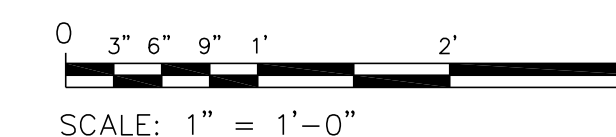


4 S501 PIER EXTENSION SECTION  
SCALE: 1" = 1'-0"



5 S501 FLOAT TRANSITION PLATE PLAN  
SCALE: 1/2" = 1'-0"

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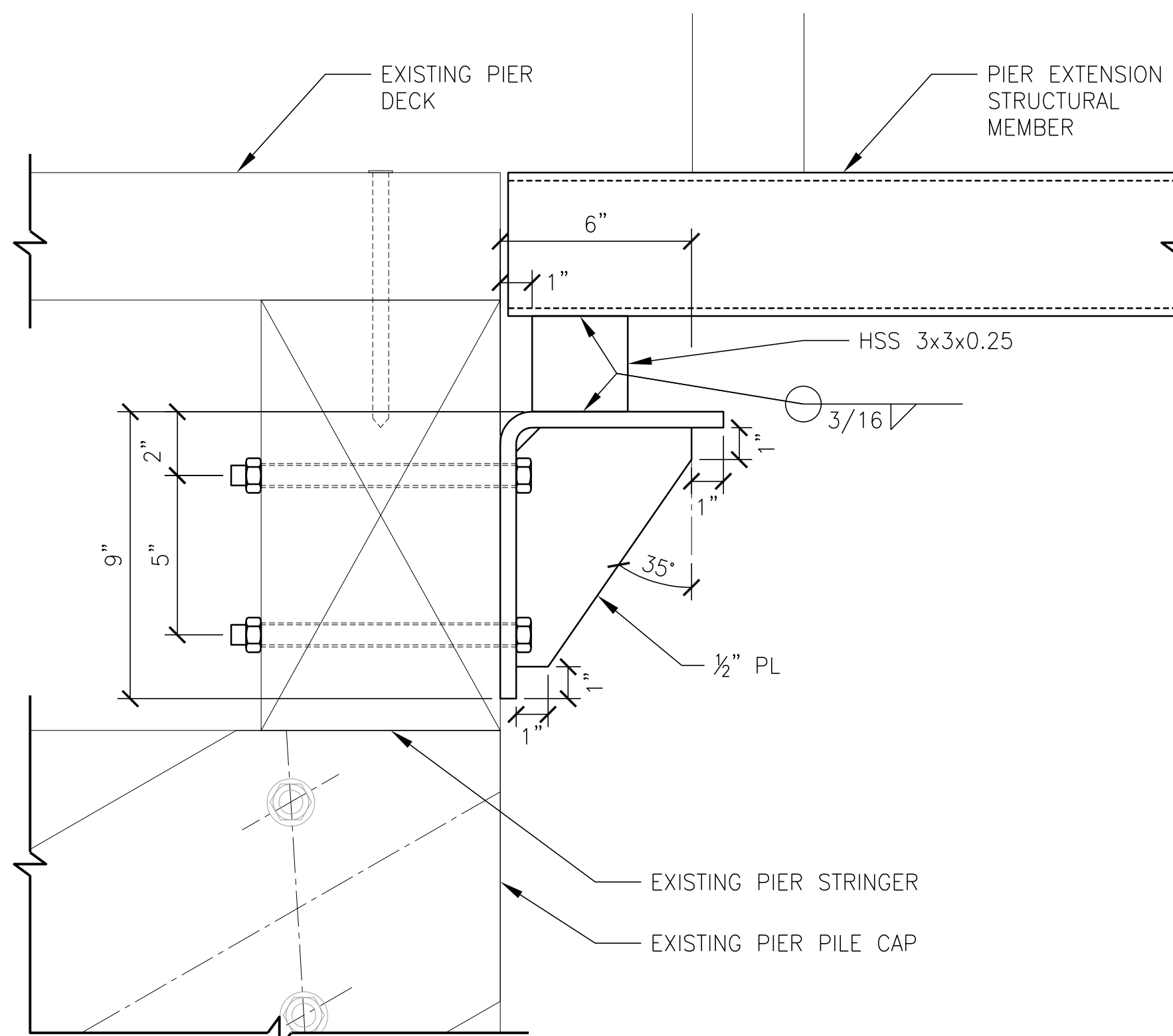
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FWPSI001.004

SHT TITLE  
DETAILS - EXISTING  
PIER GANGWAY  
EXTENSION

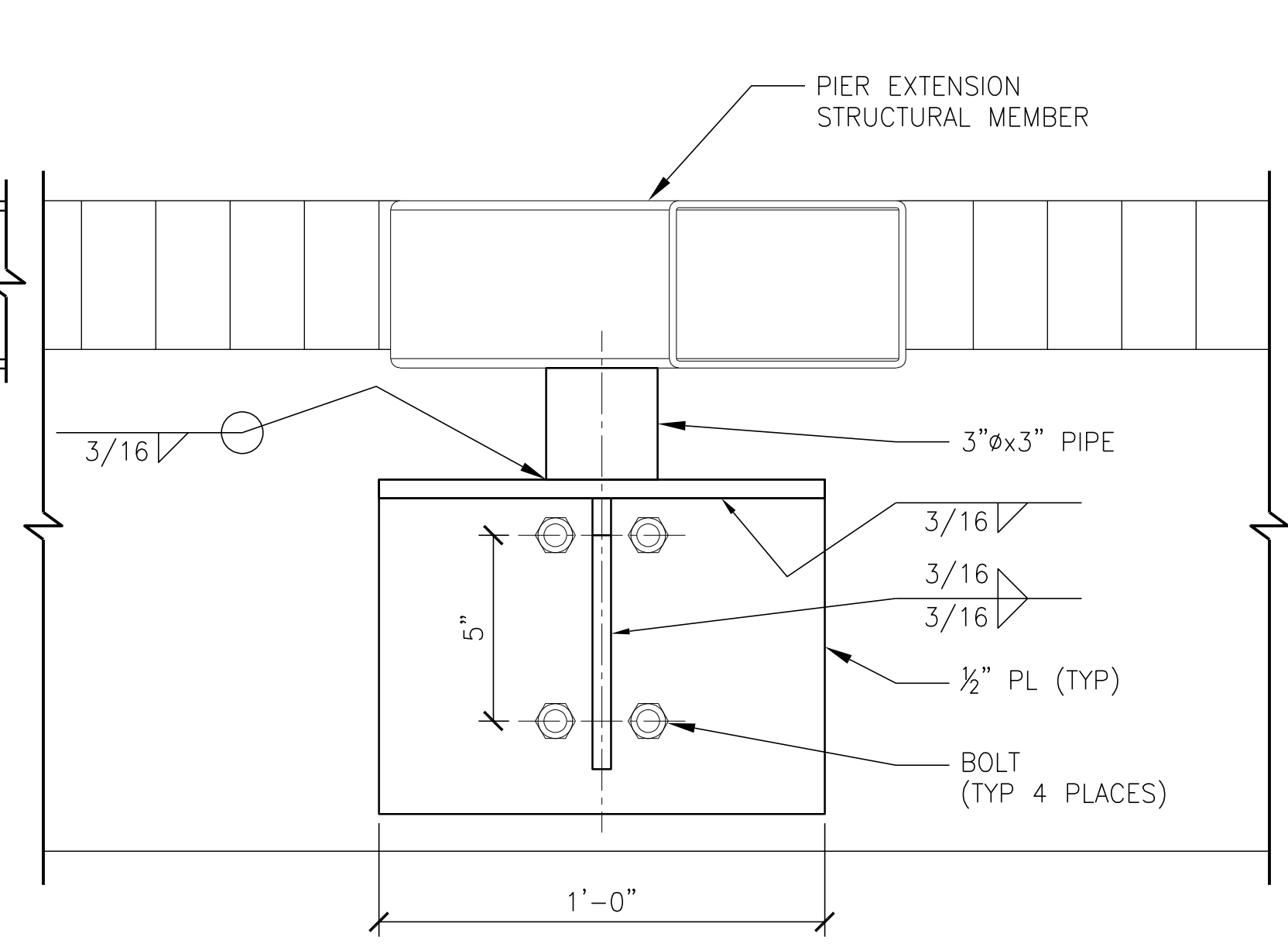
SHT NO 7 OF 24

**S501**



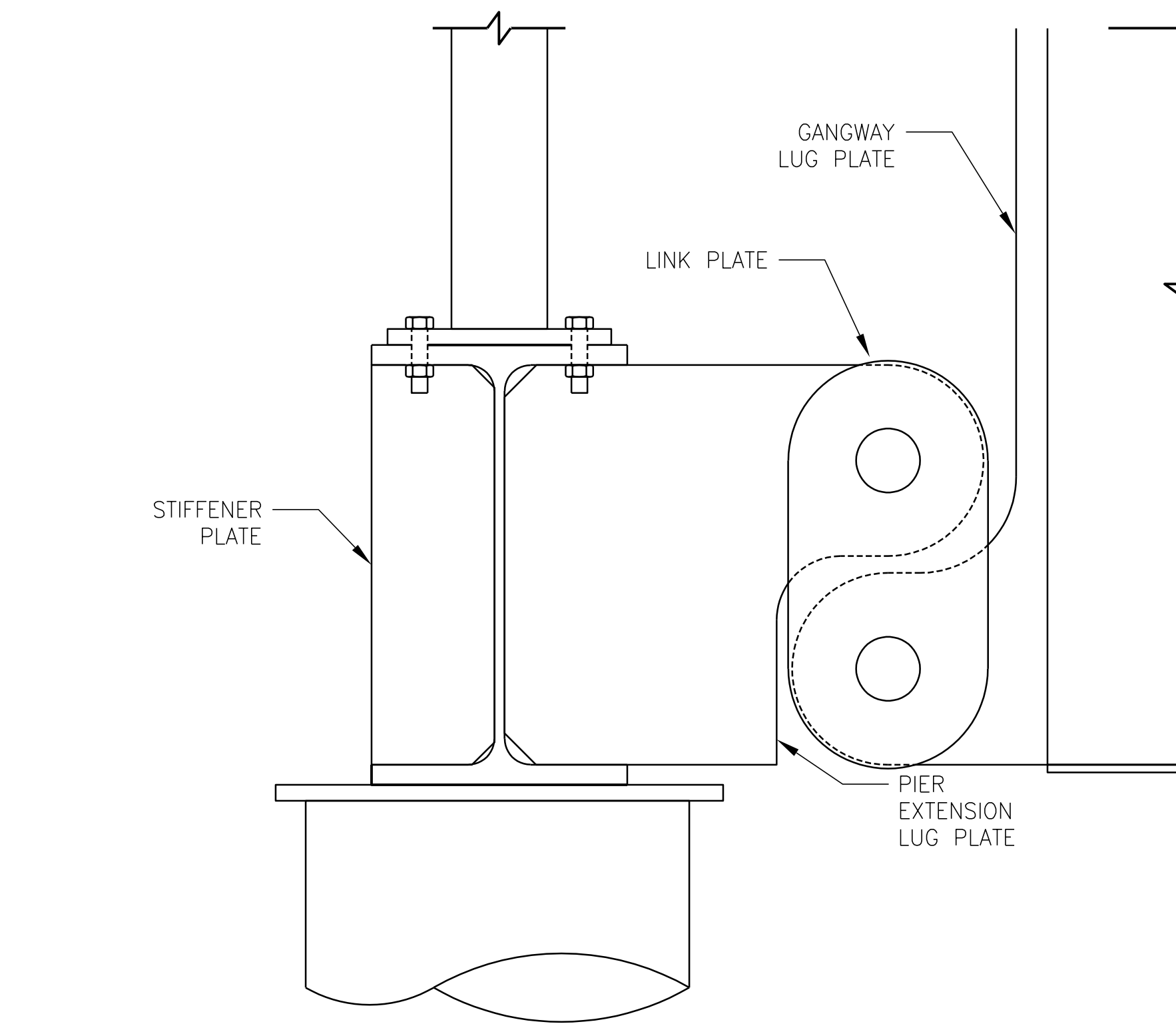
**GANGWAY EXTENSION PIER SIDE SUPPORT SECTION**

1 S502 SCALE: 3" = 1'-0"



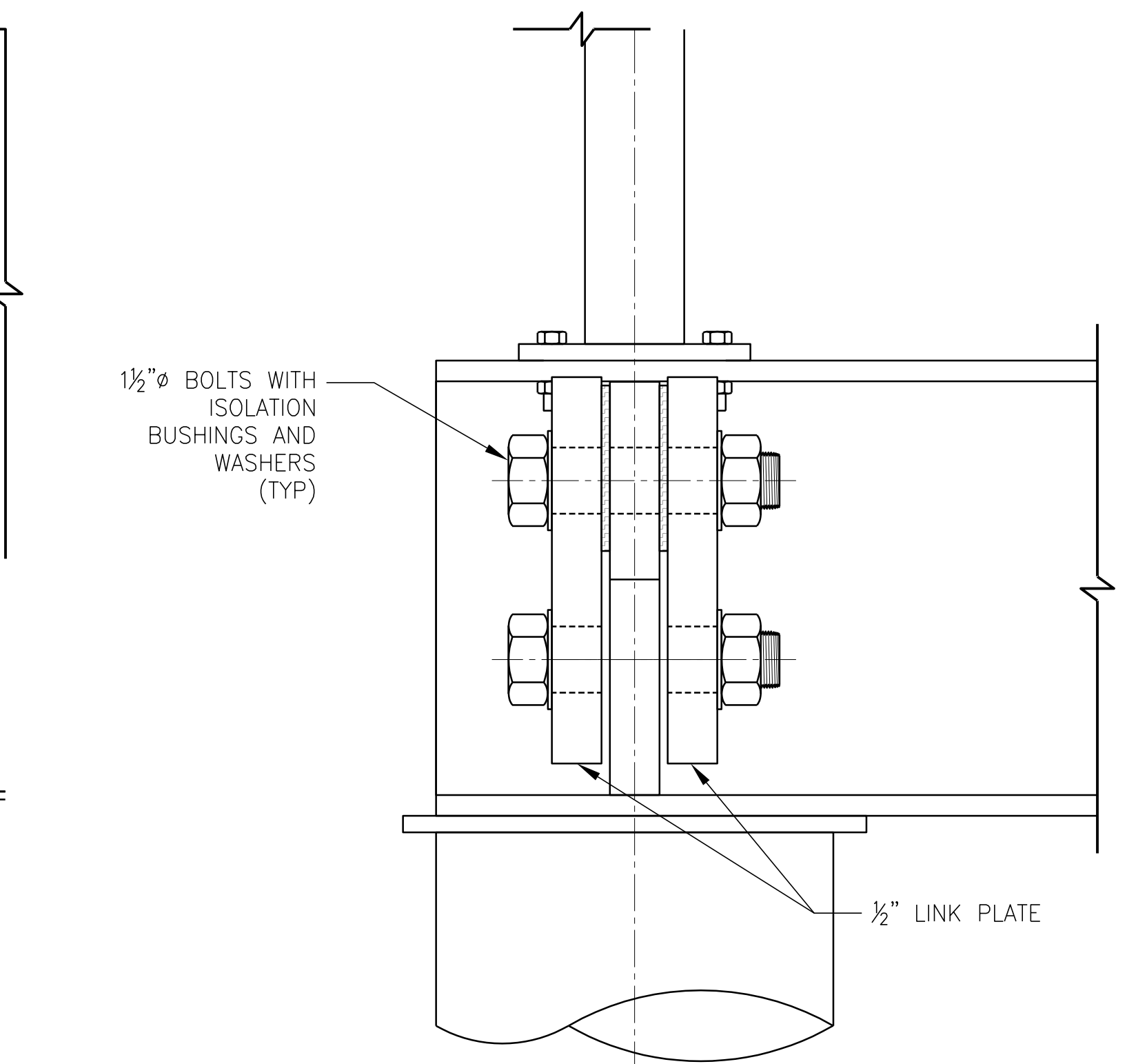
**GANGWAY EXTENSION PIER SIDE SUPPORT ELEVATION**

2 S502 SCALE: 3" = 1'-0"



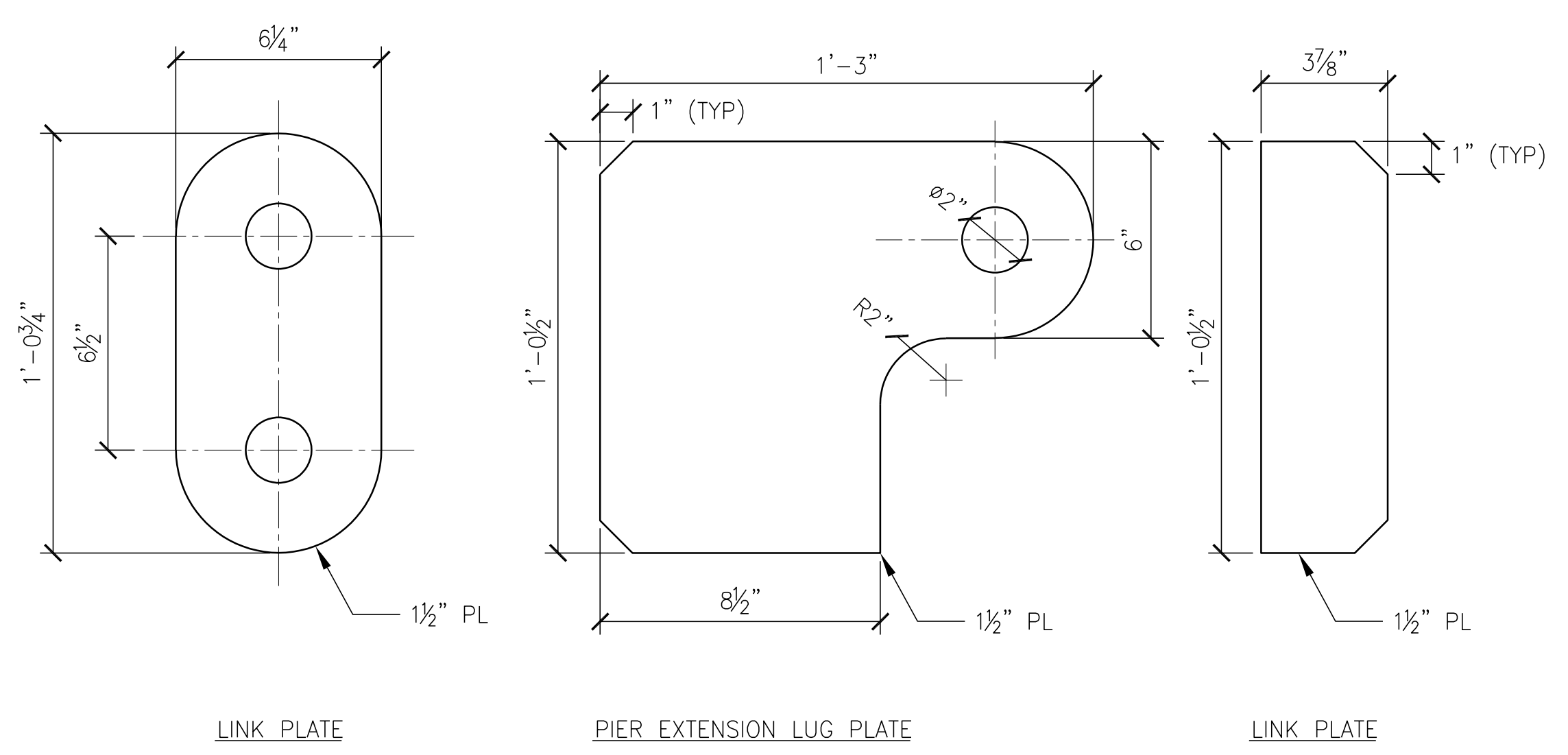
**GANGWAY EXTENSION FLOAT SIDE SUPPORT ELEVATION**

3 S502 SCALE: 3" = 1'-0"



**GANGWAY EXTENSION FLOAT SIDE SUPPORT SECTION**

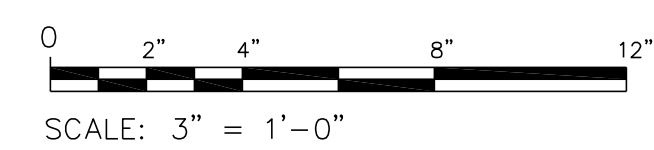
4 S502 SCALE: 3" = 1'-0"



**GANGWAY EXTENSION FLOAT SIDE SUPPORT PLATE DETAILS**

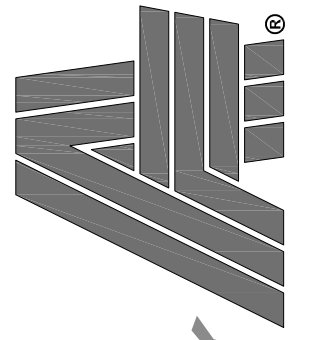
5 S502 SCALE: 3" = 1'-0"

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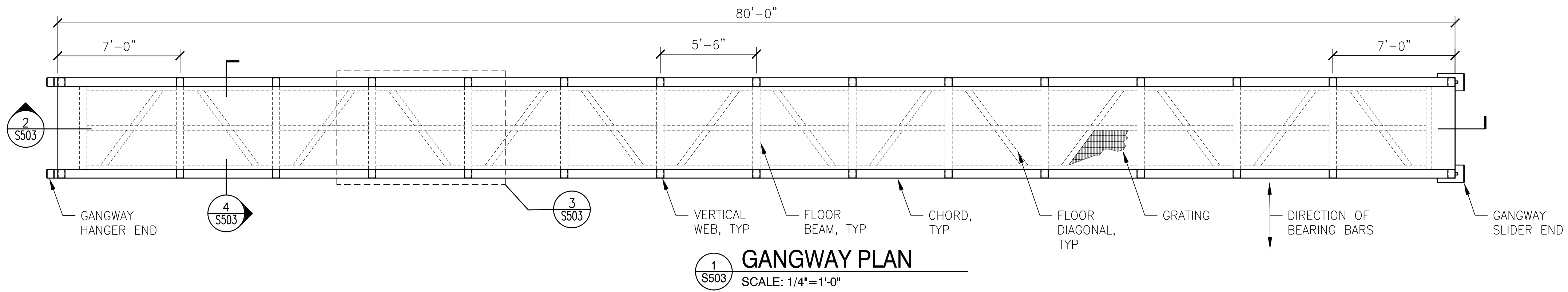
JOB NO: FWPSI001.004

SHT TITLE: GANGWAY CONNECTION SECTIONS AND ELEVATIONS

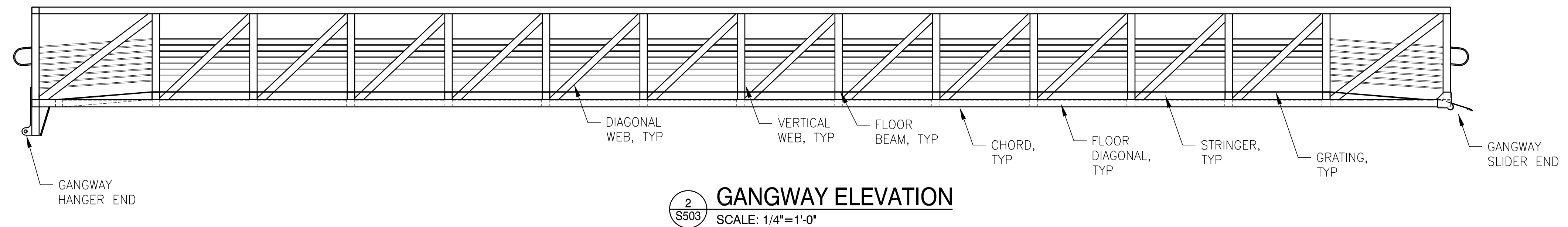
SHT NO: 8 OF 24

**S502**



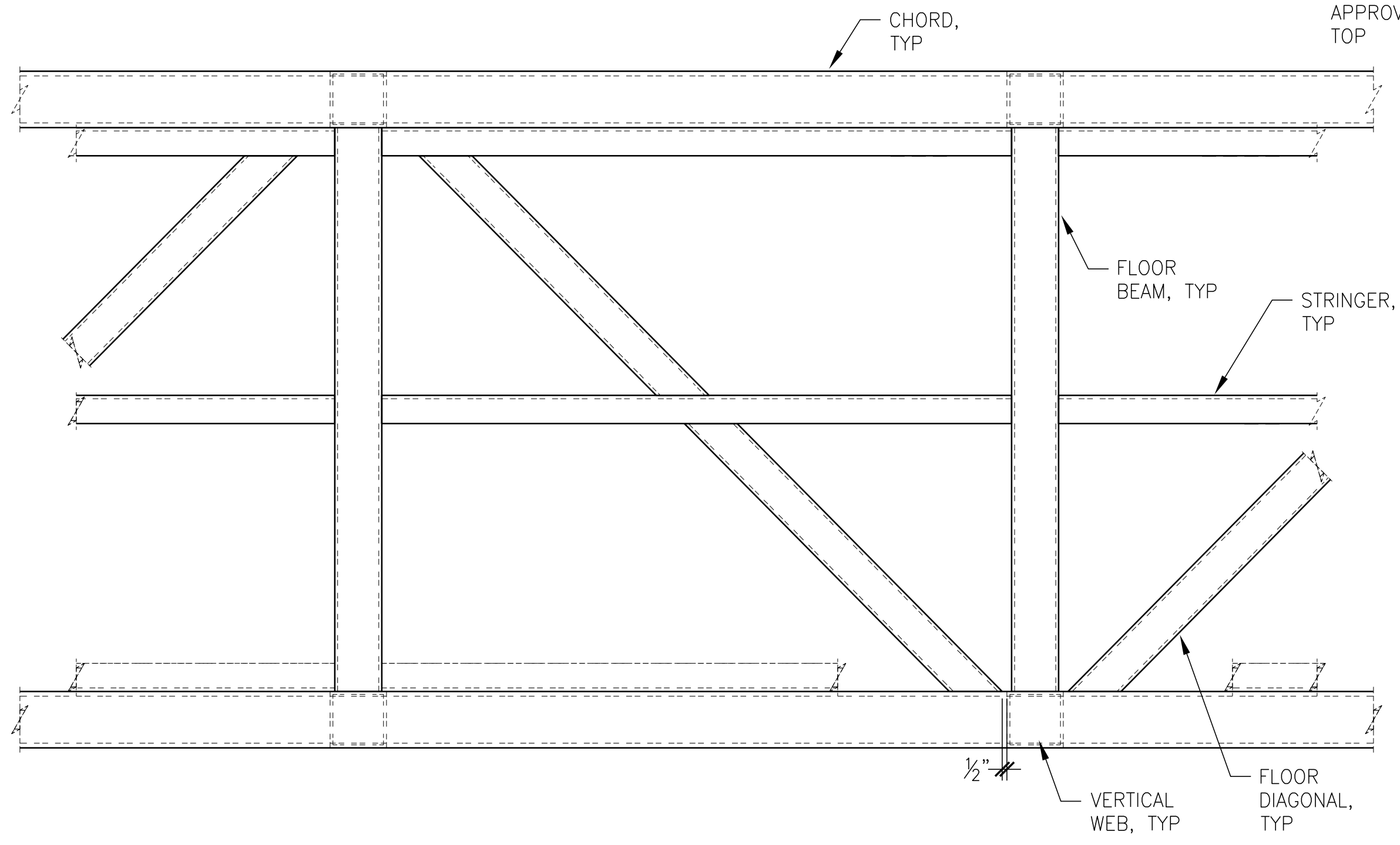


**1 GANGWAY PLAN**  
SCALE: 1/4"=1'-0"

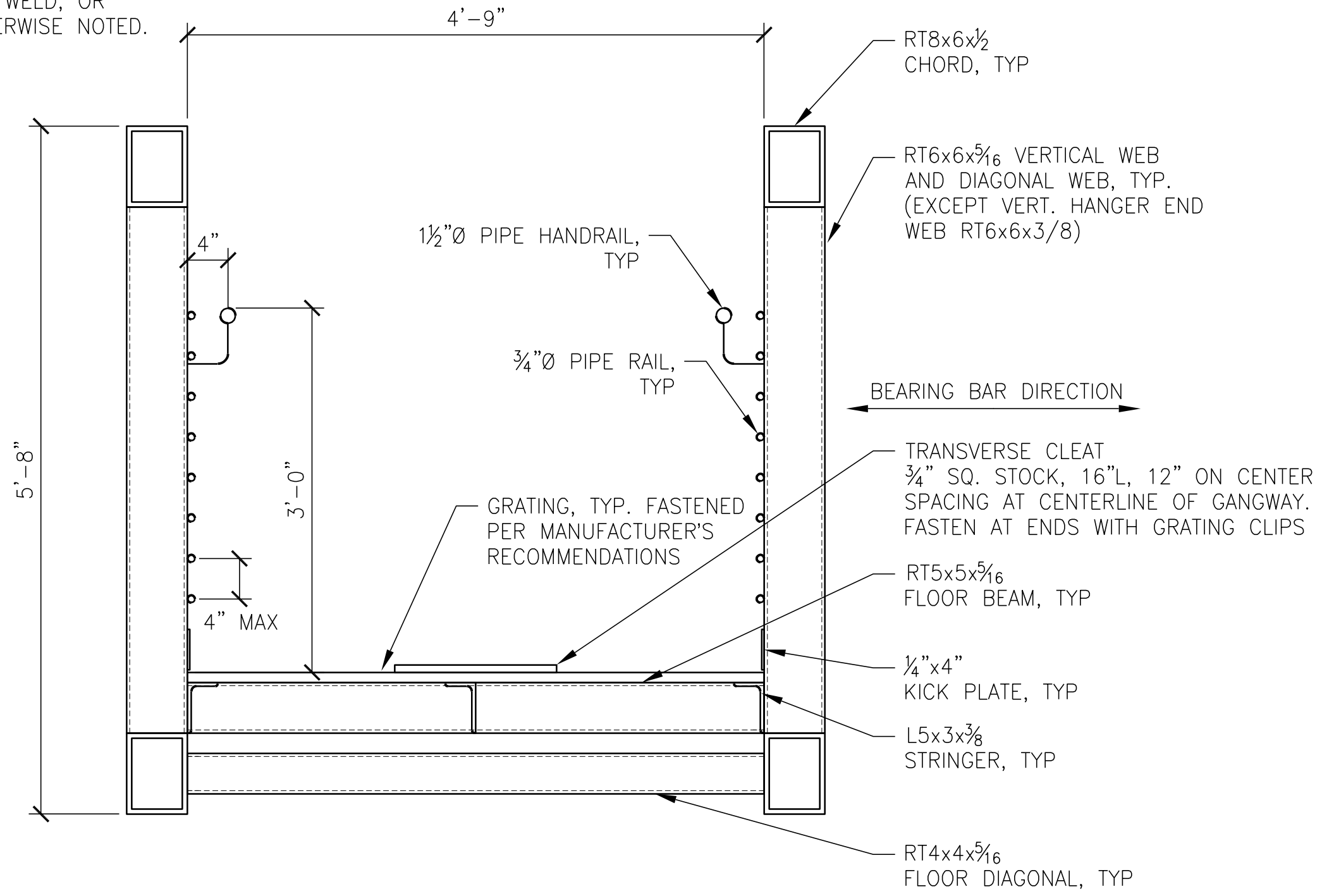


**2 GANGWAY ELEVATION**  
SCALE: 1/4"=1'-0"

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

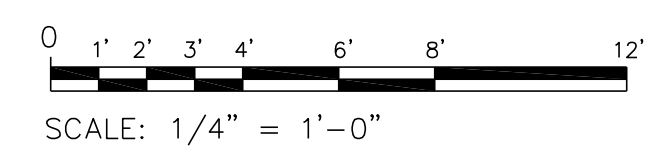
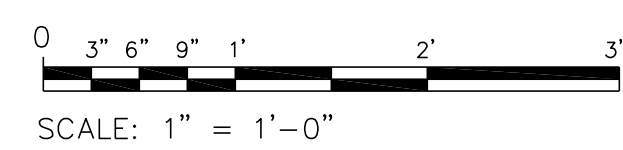


**3 ENLARGED GANGWAY PLAN**  
SCALE: 1"=1'-0"



**4 GANGWAY SECTION**  
SCALE: 1"=1'-0"

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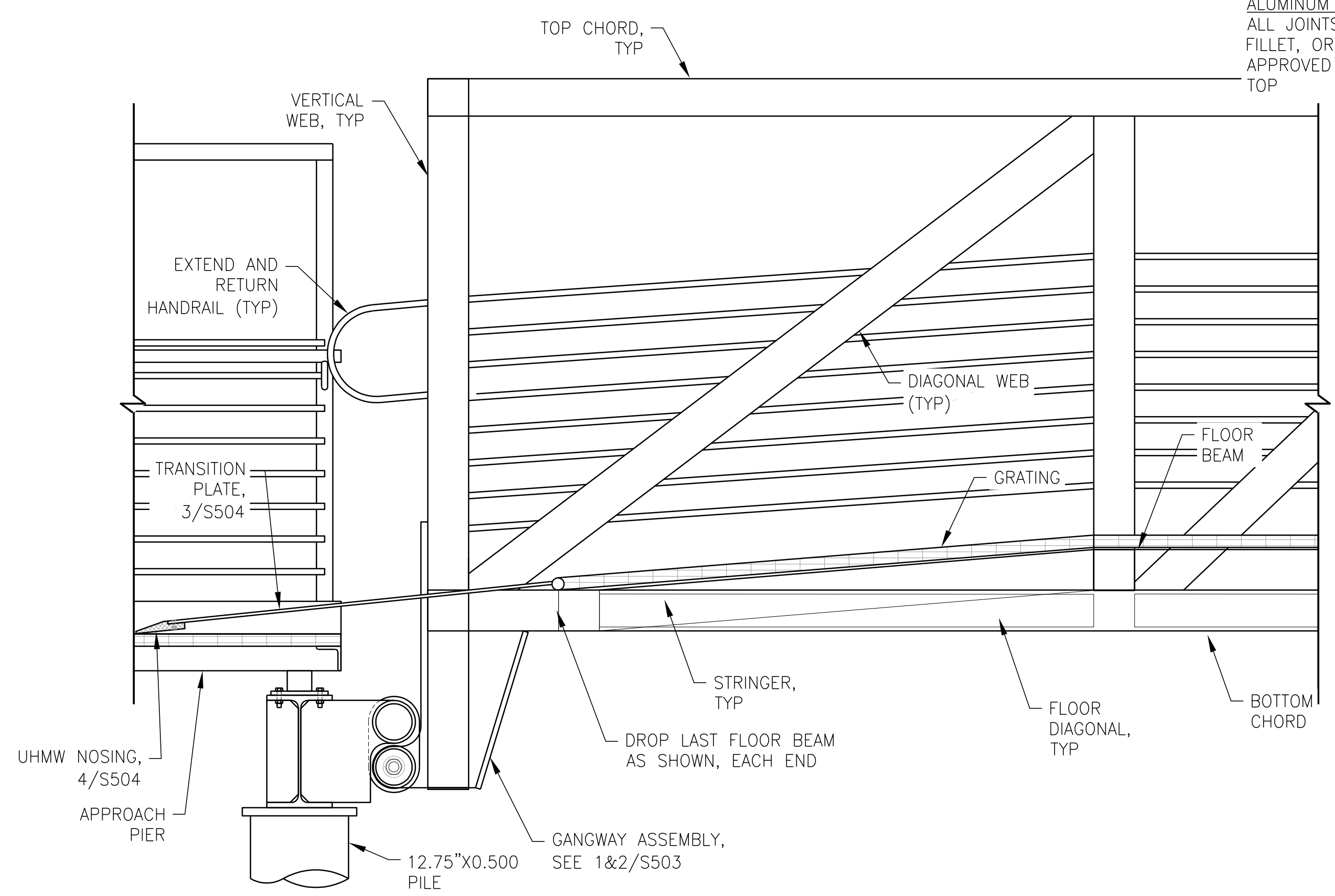
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FWPSI001.004

SHT TITLE  
DETAILS - GANGWAY

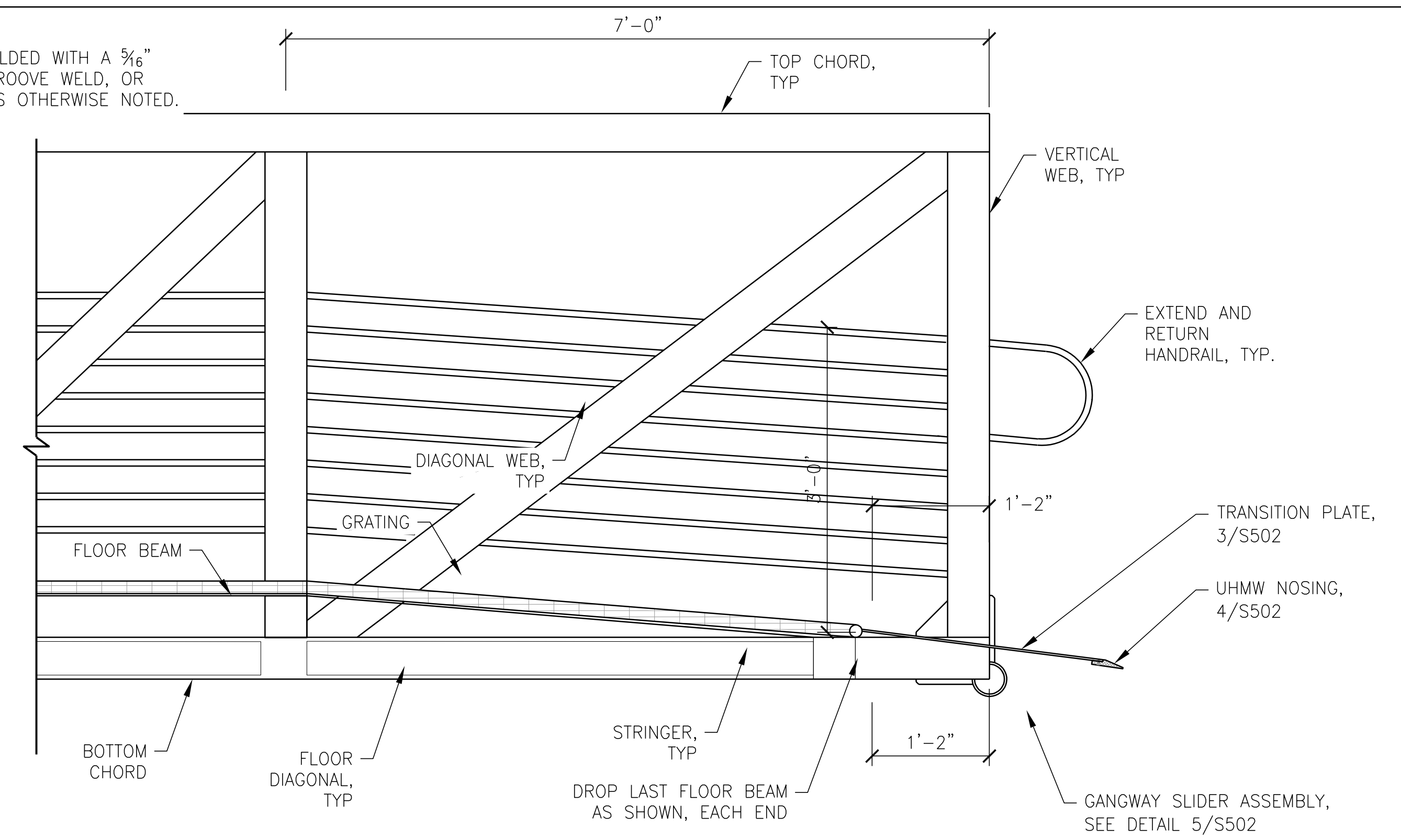
SHT NO 9 OF 24

**S503**

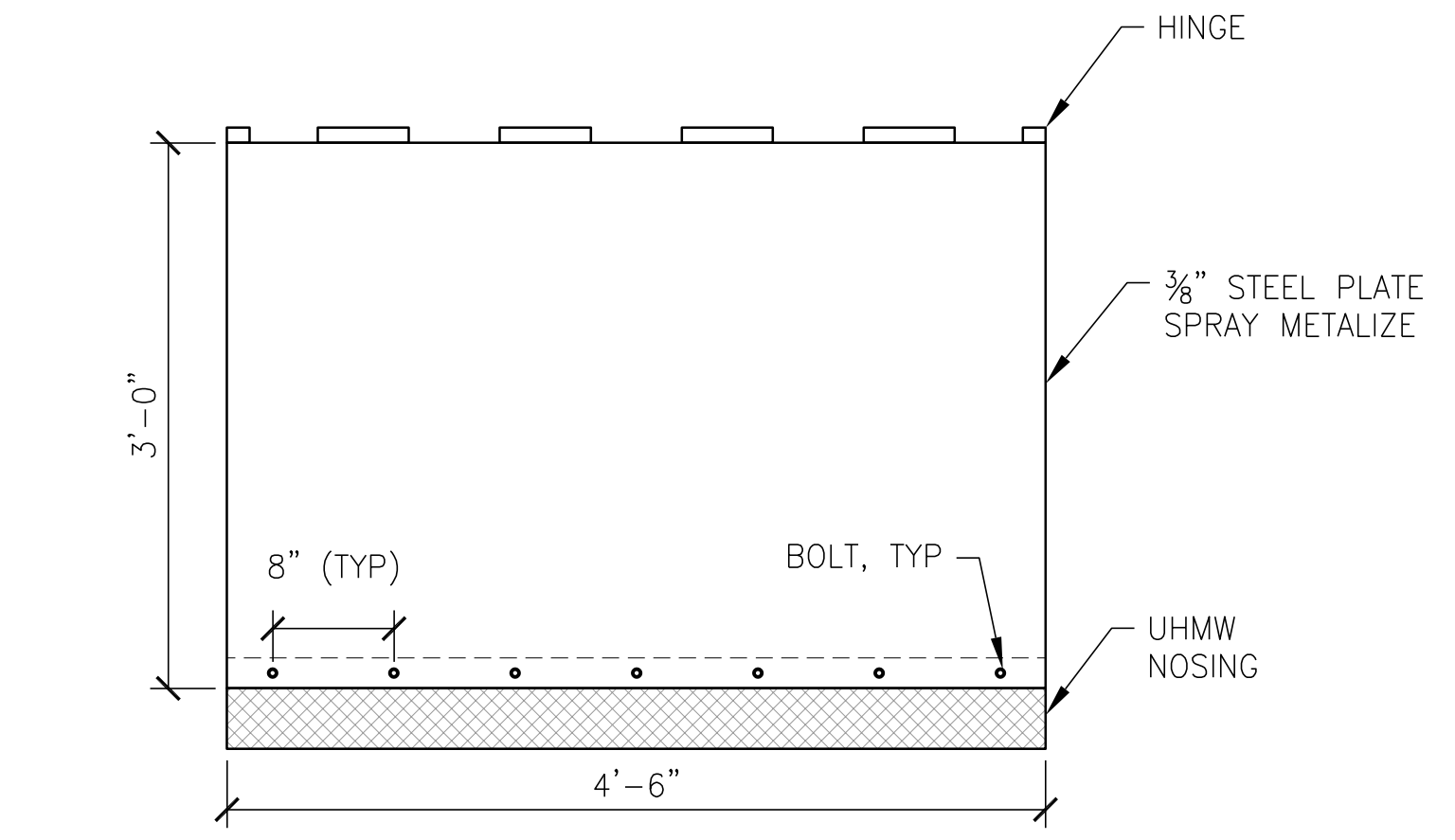
ALUMINUM WELD NOTE:  
ALL JOINTS SHALL BE WELDED WITH A 3/16"  
FILLET, OR EQUIVALENT GROOVE WELD, OR  
APPROVED EQUAL, UNLESS OTHERWISE NOTED.



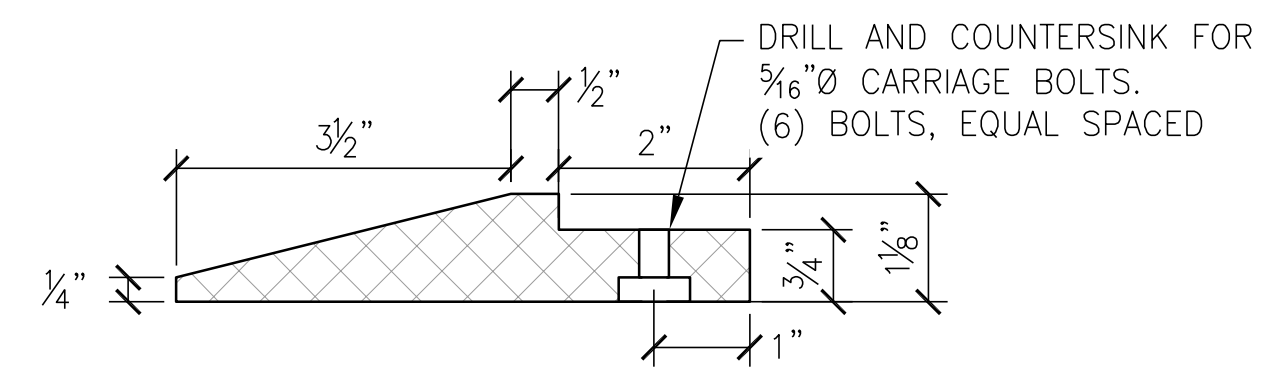
1 S504 GANGWAY END DETAIL  
SCALE: 1"=1'-0"



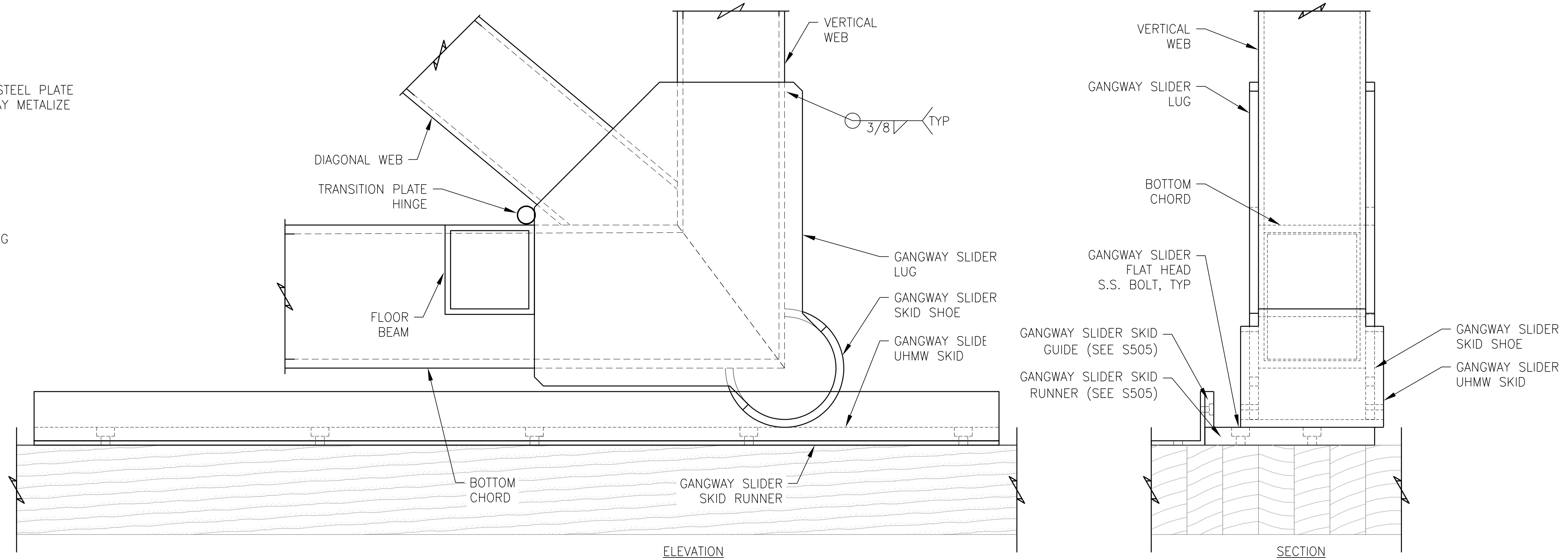
2 S504 GANGWAY END DETAIL  
SCALE: 1"=1'-0"



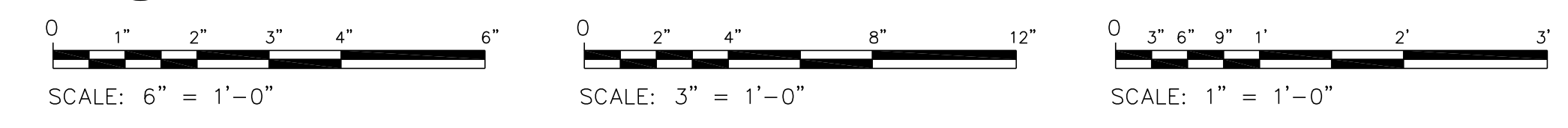
3 S504 GANGWAY TRANSITION PLATE DETAIL  
SCALE: 1/4"=1'-0"



4 S504 GANGWAY UHMW NOSING DETAIL  
SCALE: 6"=1'-0"



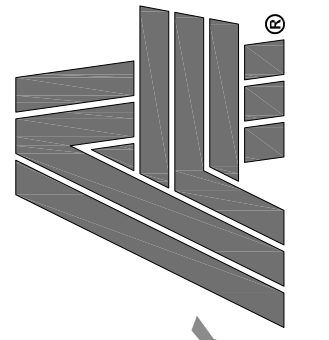
5 S504 GANGWAY SLIDER ASSEMBLY DETAIL  
SCALE: 3"=1'-0"



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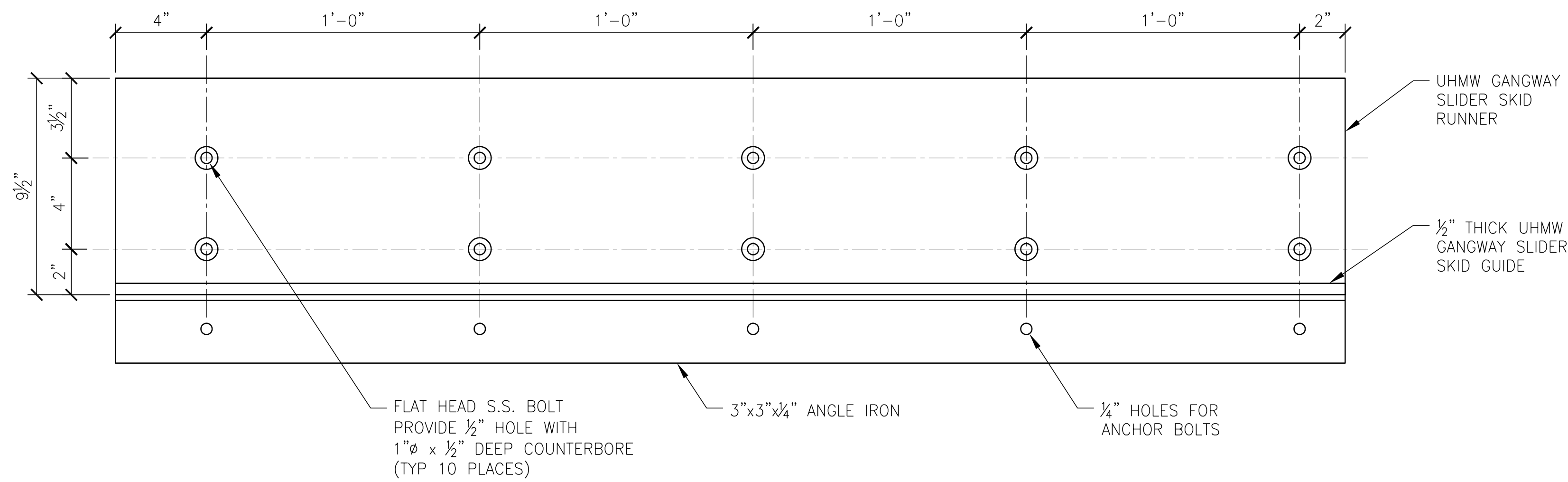
JOB NO  
FWPSI001.004

SHT TITLE  
DETAILS - GANGWAY

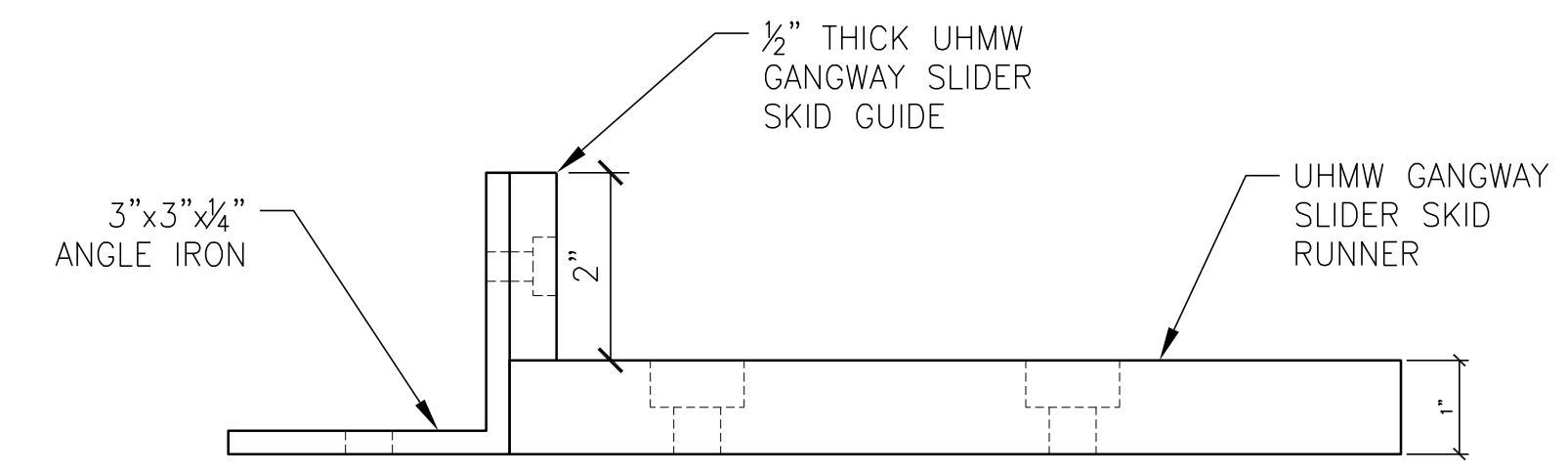
SHT NO 10 OF 24

**S504**

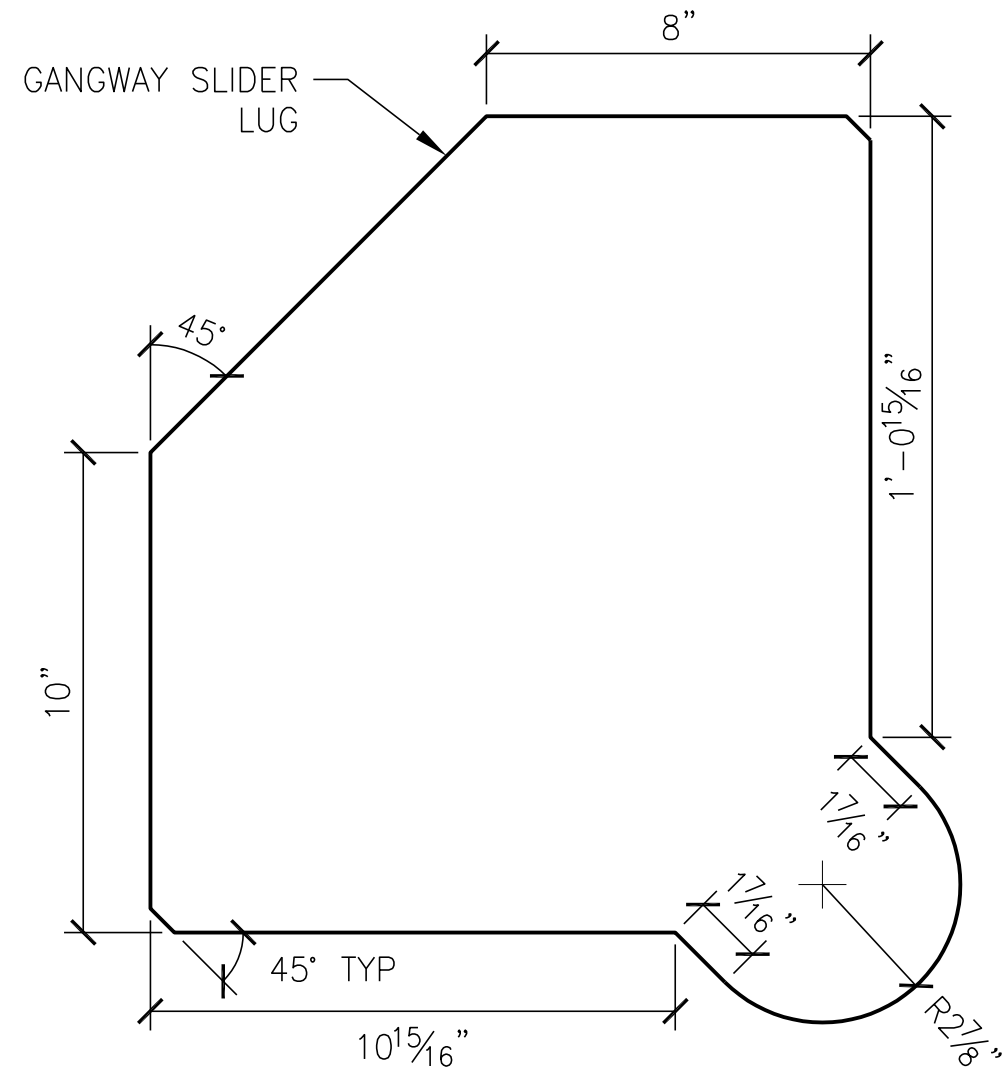




1 GANGWAY SLIDER ASSEMBLY PLAN  
 S505 SCALE: 3" = 1'-0"

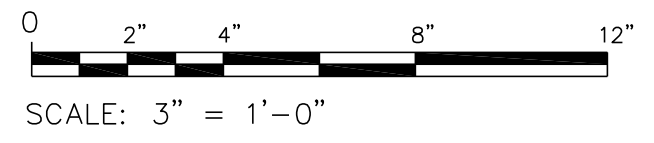
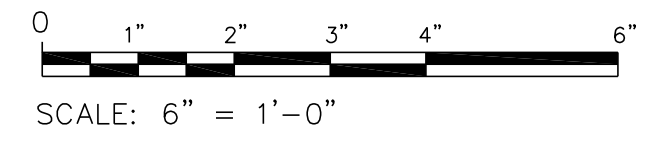


2 GANGWAY SLIDER ASSEMBLY SECTION  
 S505 SCALE: 6" = 1'-0"



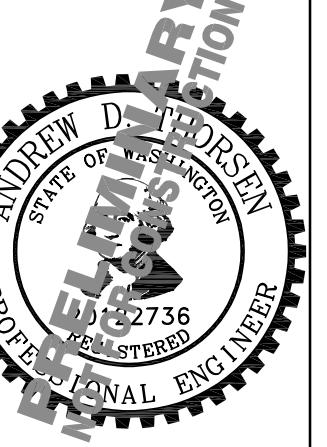
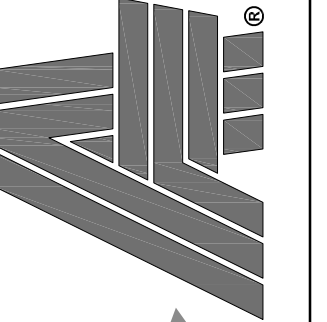
3 GANGWAY SLIDER ASSEMBLY LUG DETAIL  
 S505 SCALE: 3" = 1'-0"

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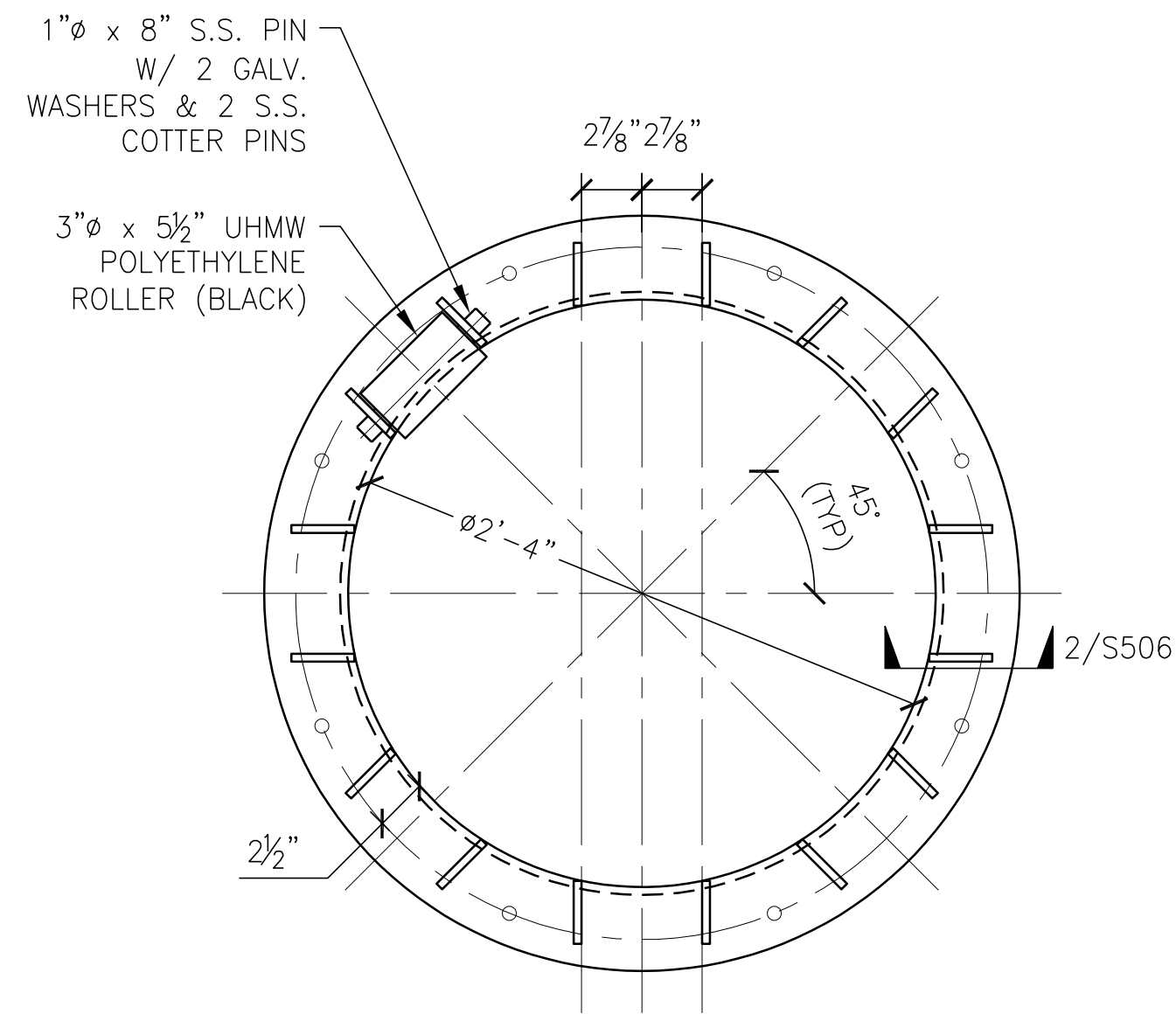
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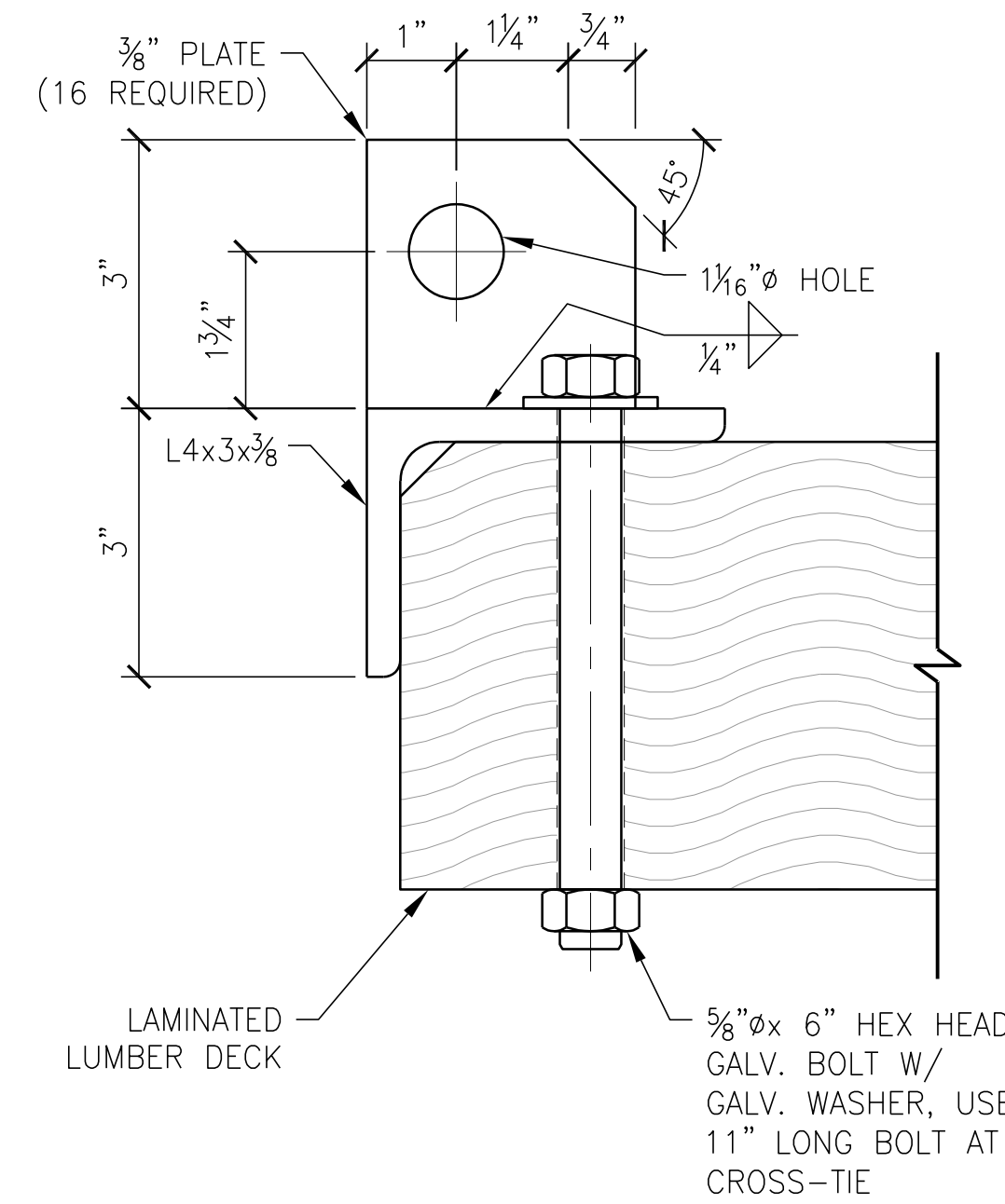
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 DETAILS - GANGWAY

SHT NO 11 OF 24

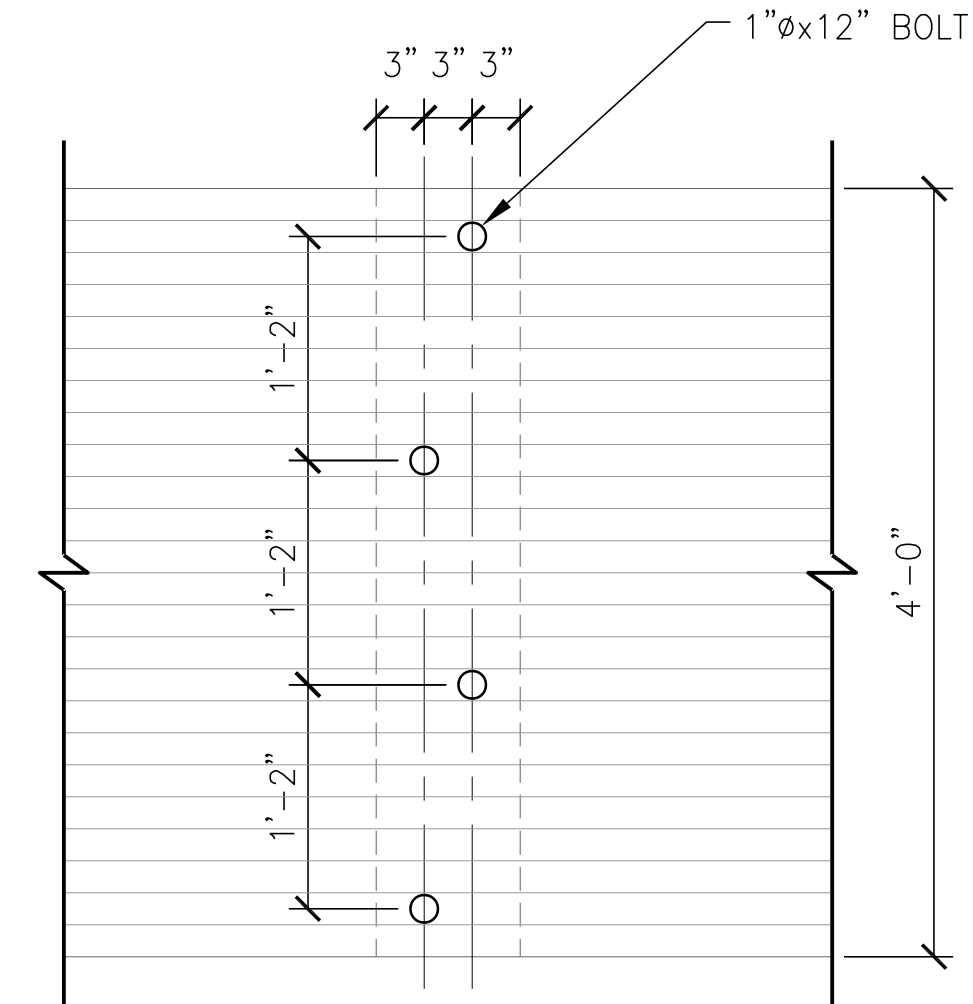
**S505**



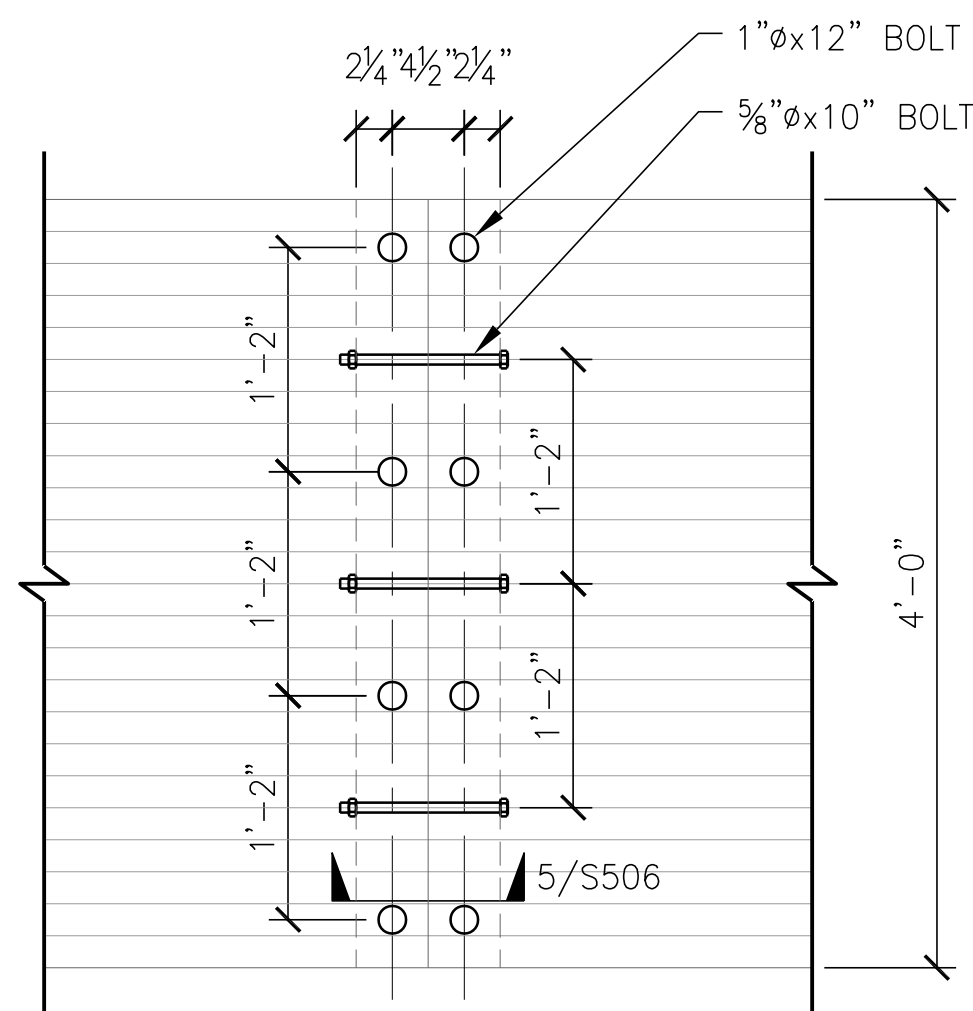
1  
S506 **PILE GUIDE DETAIL**  
SCALE: 1-1/2" = 1'-0"



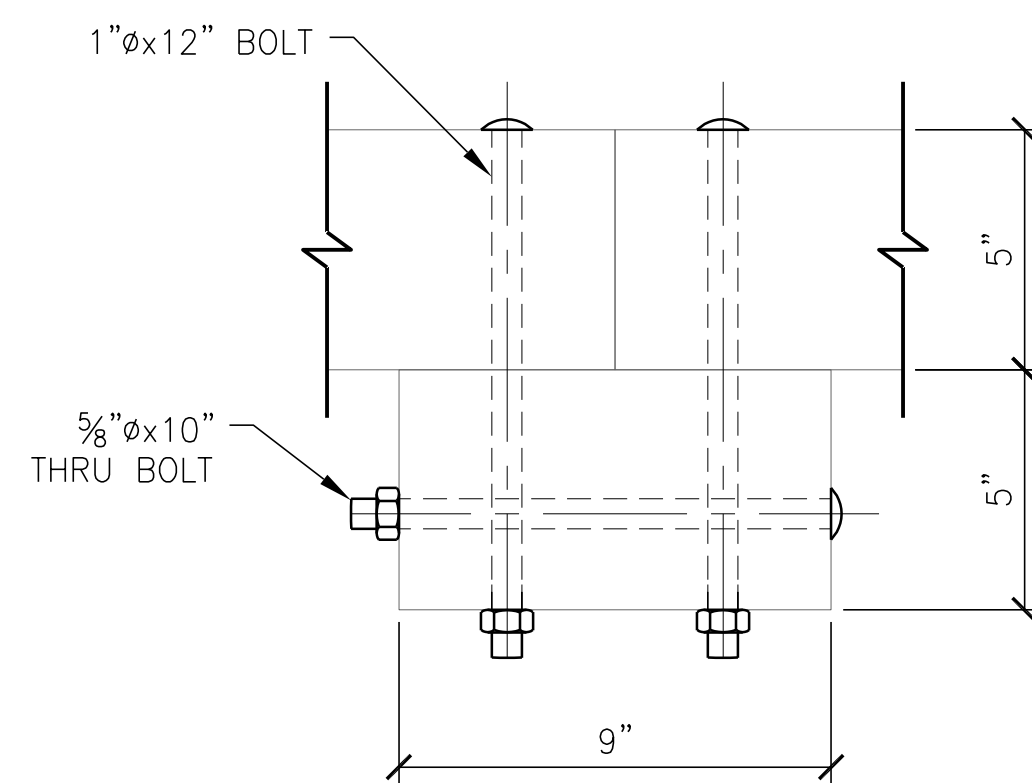
2  
S506 **PILE GUIDE ROLLER BRACKET SECTION**  
SCALE: 6" = 1'-0"



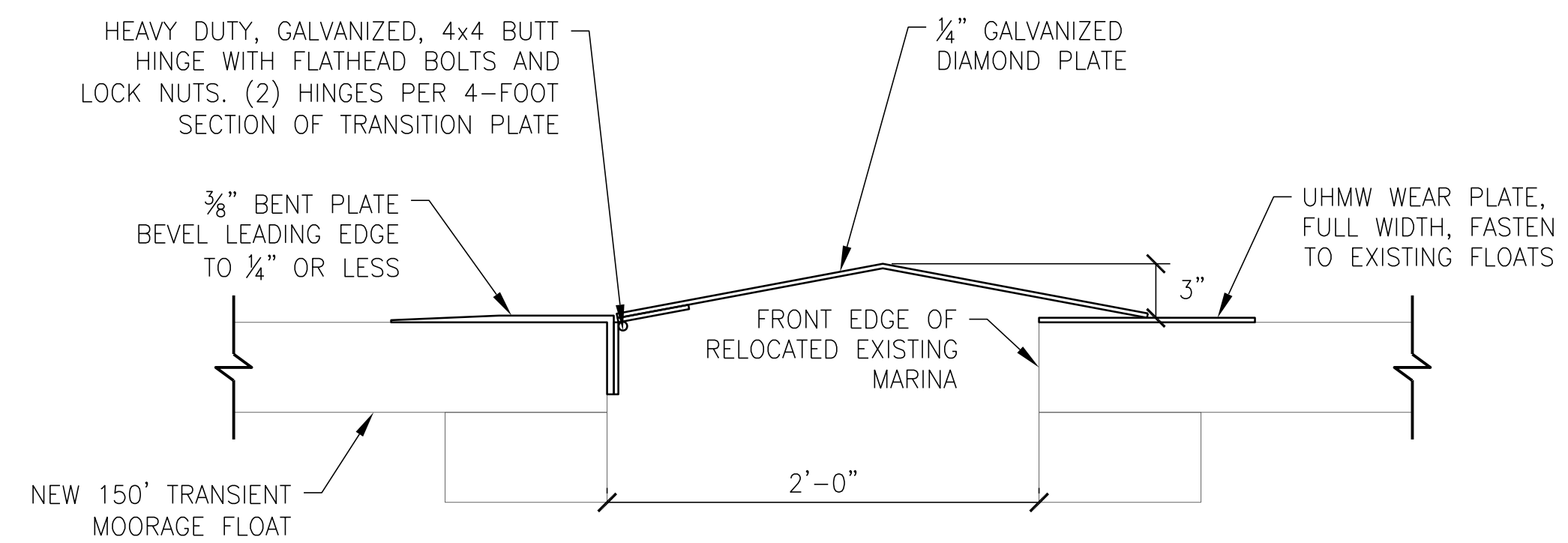
3  
S506 **CONTINUOUS DECK BOLTING DETAIL**  
SCALE: 1" = 1'-0"



4  
S506 **DECK JOINT BOLTING DETAIL**  
SCALE: 1" = 1'-0"



5  
S506 **DECK JOINT BOLTING SECTION**  
SCALE: 3" = 1'-0"

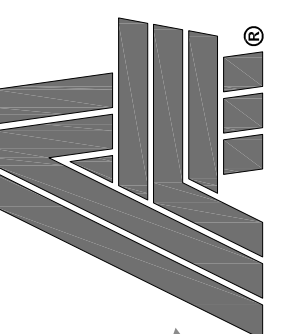


6  
S506 **FLOAT TRANSITION PLATE DETAIL**  
SCALE: 1-1/2" = 1'-0"

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2023-JAN-31

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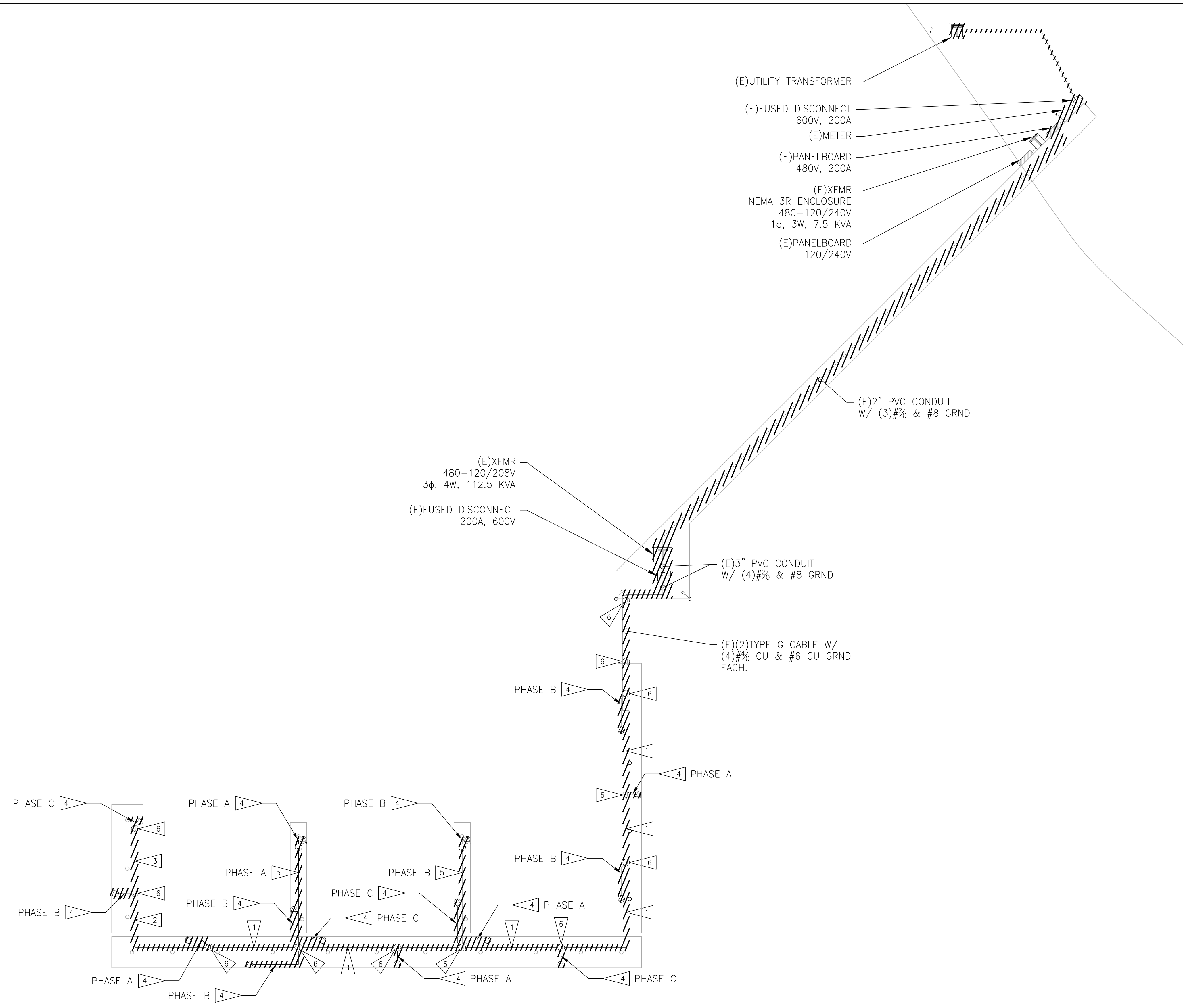
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FWPSI001.004

SHT TITLE  
MISC. DETAILS

SHT NO 12 OF 24

**S506**



**SHEET NOTES**

1. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL PATHWAY AND CABLING ON FLOATS, GANGWAY, AND FIXED PIER BACK TO UTILITY TRANSFORMER. SEPARATELY DERIVED SYSTEMS FED FROM 480V MAIN PANEL SHALL BE PROTECTED IN PLACE FOR REUSE.
2. ALL ELECTRICAL EQUIPMENT ON FIXED PIER CURRENTLY SERVING SHORE POWER PEDESTALS SHALL BE DEMOLISHED.
3. ALL EXISTING CABLE IS COPPER OF TYPE XHHW PER HISTORICAL DOCUMENTS.

**FLAG NOTES**

1. EXISTING 3" PVC CONDUIT WITH (4)500 MCM AND A #4 GROUND.
2. EXISTING 3" PVC CONDUIT WITH (3)500 MCM AND A #4 GROUND.
3. EXISTING 3" PVC CONDUIT WITH (2)500 MCM AND A #4 GROUND.
4. EXISTING 1" PVC CONDUIT WITH (2)#3 AND A #6 GROUND.
5. EXISTING 3" PVC CONDUIT WITH (2)500MCM AND A #6 GROUND.
6. EXISTING NEMA 4X JUNCTION BOX.

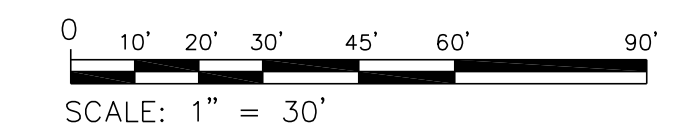
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JOB NO	FWPSI001.004
SHT TITLE	MARINA ELECTRICAL DEMOLITION PLAN
SHT NO	13 OF 24

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**1 MARINA ELECTRICAL DEMOLITION PLAN**  
 SCALE: 1" = 30'

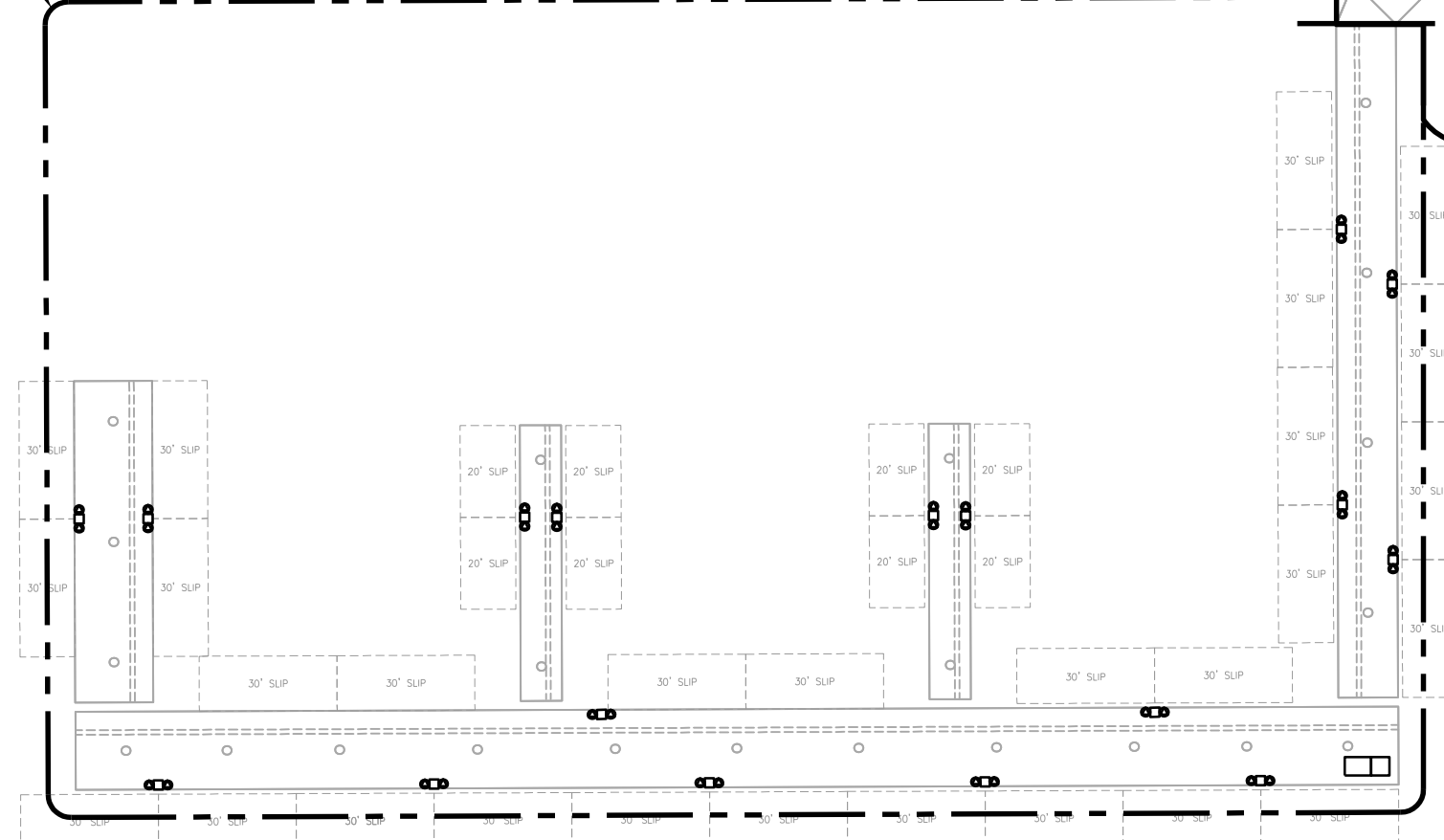


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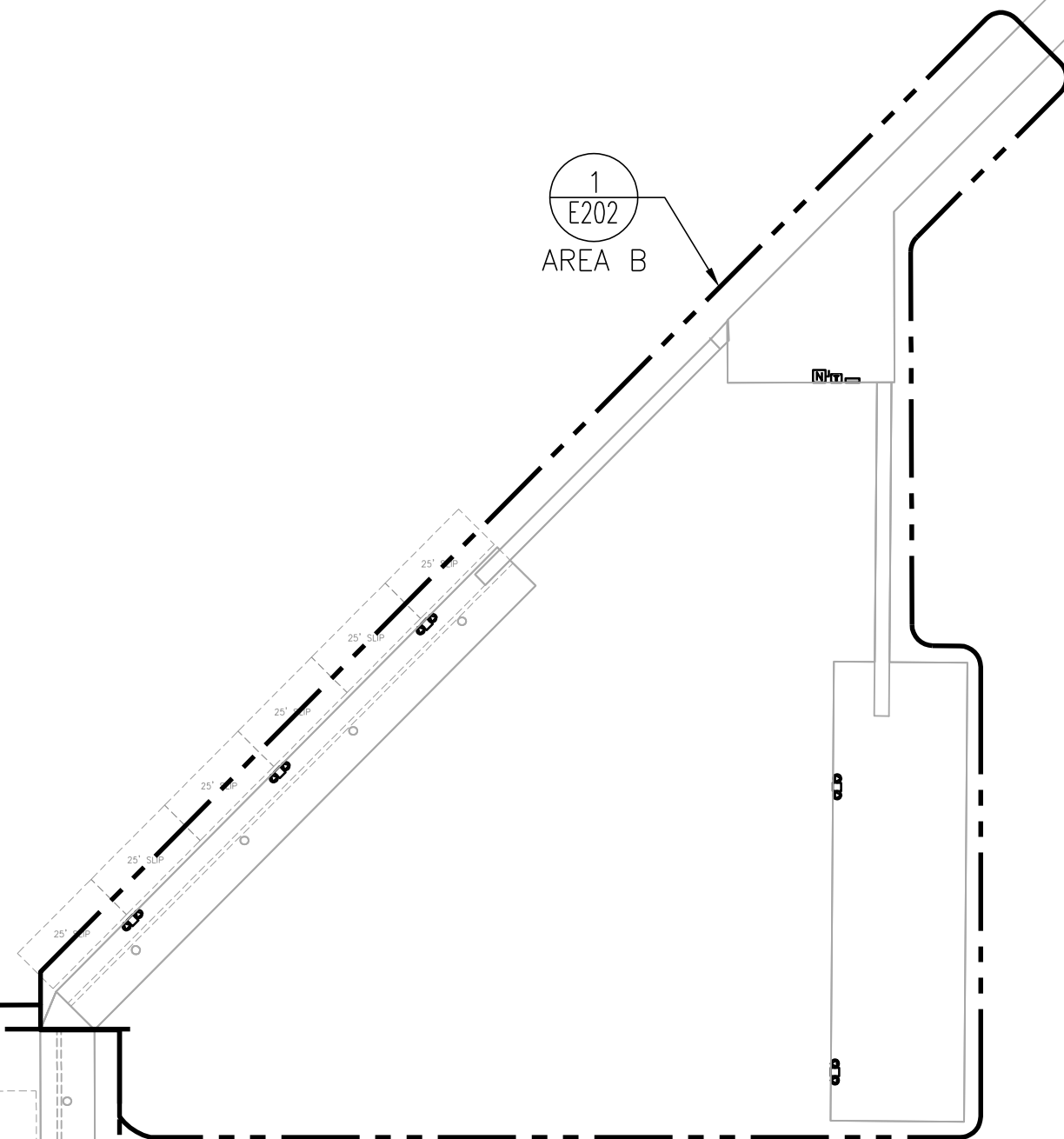
**E101**



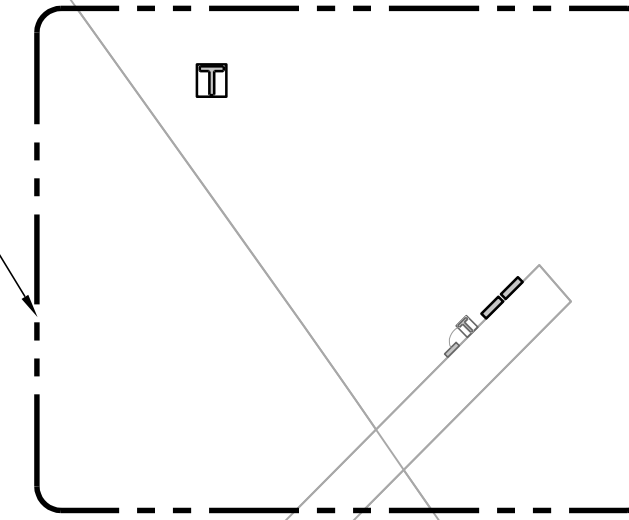
1  
E201  
AREA A



1  
E202  
AREA B

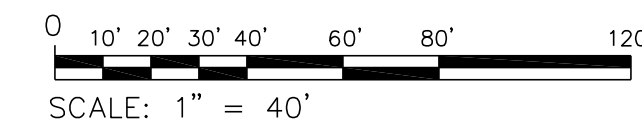


1  
E203  
AREA C

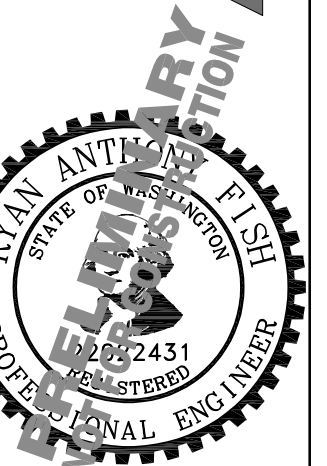


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2023-JAN-31

1  
E102  
**ELECTRICAL SITE PLAN**  
SCALE: 1"=40'



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SHT TITLE  
ELECTRICAL SITE PLAN

SHT NO 14 OF 24

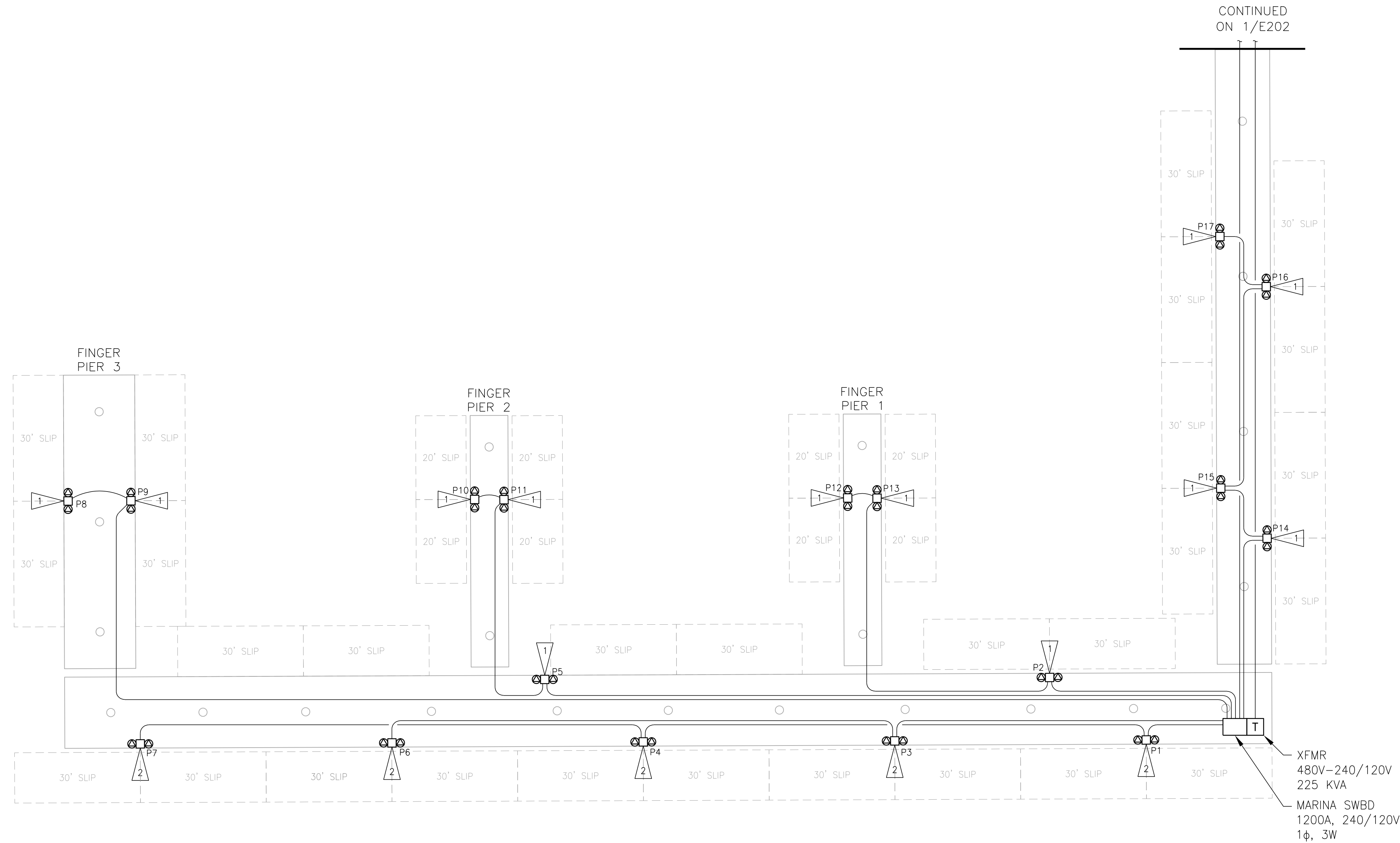
**E102**

### SHEET NOTES

1. ALL PIER CABLING SHALL BE WATER-TIGHT TYPE G CABLING SUPPORTED ON HANGERS UNDER DECKING ALONG EXISTING CONDUIT ROUTES.
2. ALL FLOAT CABLING SHALL BE WATER-TIGHT TYPE G CABLING ROUTED THROUGH SERVICE CHANNEL IN FLOAT. CABLING SHALL BE CONTINUOUS BETWEEN TERMINATIONS AND ALL TERMINATIONS SHALL BE WITHIN THE SUBSTATION OR PEDESTALS UNLESS OTHERWISE NOTED.
3. REFER TO ONE LINE DIAGRAM ON SHEET E503 FOR CONDUCTOR SIZES.

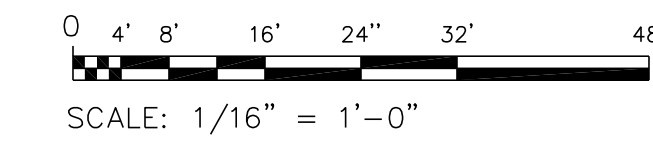
### FLAG NOTES

1. PROVIDE NEW 30A PEDESTAL WITH INTEGRATED LIGHT AND PHOTOCELL (MODEL TBD).
2. PROVIDE NEW 50A PEDESTAL WITH INTEGRATED LIGHT AND PHOTOCELL (MODEL TBD).



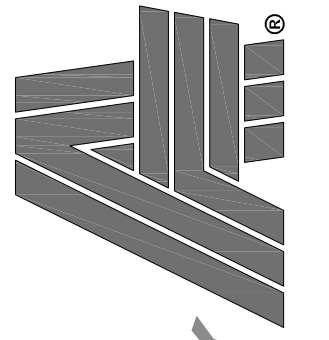
**PREFINAL SUBMITTAL**  
2023-JAN-31

**ENLARGED ELECTRICAL PLAN - AREA A**  
SCALE: 1/16" = 1'-0"



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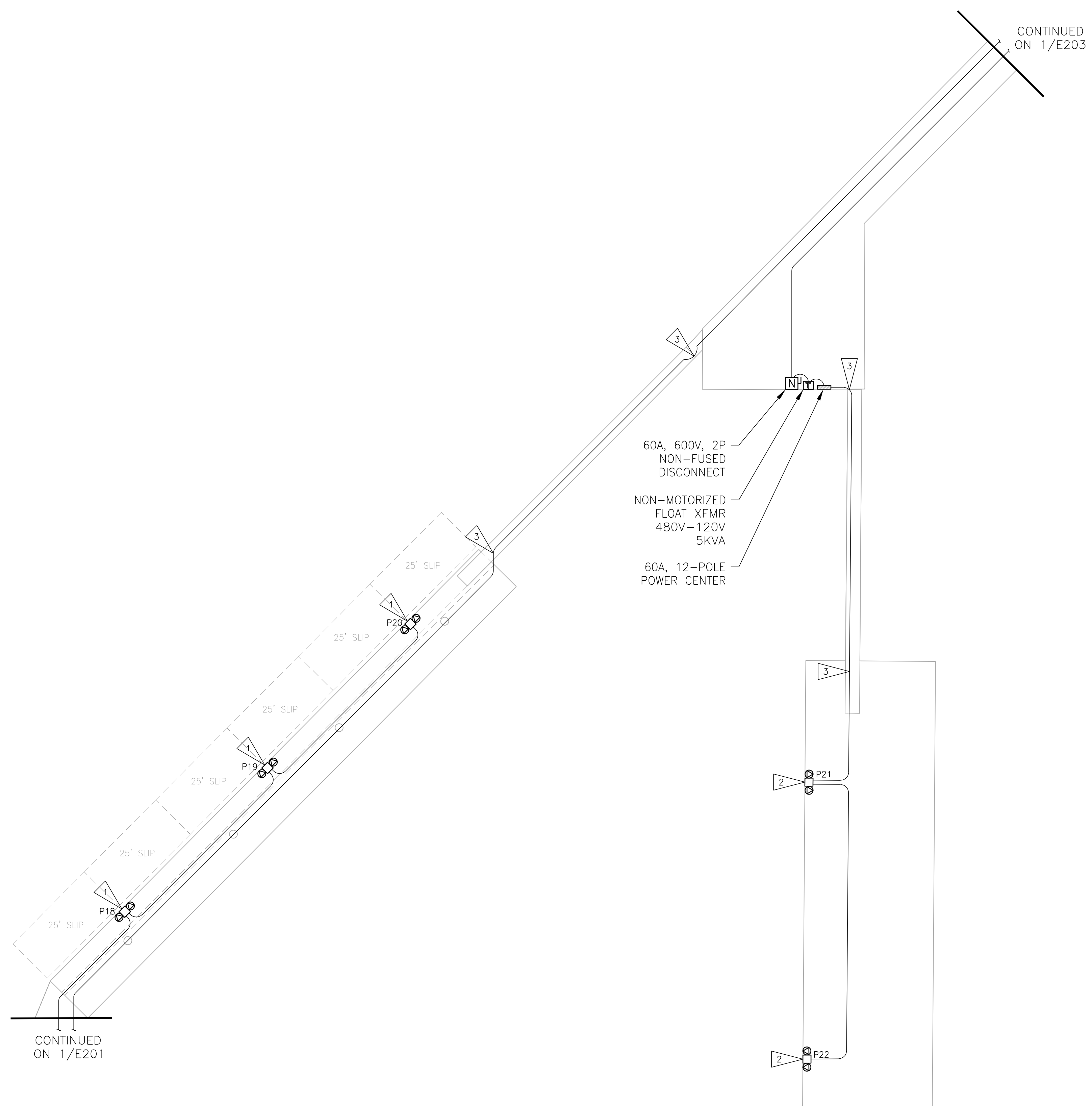
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FWPSI001.004

SHT TITLE  
ENLARGED ELECTRICAL  
PLAN - AREA A

SHT NO 15 OF 24

**E201**



**SHEET NOTES**

1. ALL PIER CABLING SHALL BE WATER-TIGHT TYPE G CABLING SUPPORTED ON STRUT CHANNEL HANGERS UNDER DECKING ALONG EXISTING CONDUIT ROUTES. PROVIDE STAINLESS STEEL BRACKETS WITH CABLE GROMMETS
2. ALL FLOAT CABLING SHALL BE WATER-TIGHT TYPE G CABLING ROUTED THROUGH SERVICE CHANNEL IN FLOAT. CABLING SHALL BE CONTINUOUS BETWEEN TERMINATIONS AND ALL TERMINATIONS SHALL BE WITHIN THE SUBSTATION OR PEDESTALS UNLESS OTHERWISE NOTED.
3. REFER TO ONE LINE DIAGRAM ON SHEET E503 FOR CONDUCTOR SIZES.

**FLAG NOTES**

- 1 PROVIDE NEW 30A/120V PEDESTAL WITH INTEGRATED LIGHT AND PHOTOCELL (MODEL TBD).
- 2 PROVIDE NEW 20A/120V PEDESTAL WITH (2) INTEGRATED 20A RECEPTACLES, PHOTOCELL CONTROLLED LIGHTING (MODEL TBD).
- 3 PROVIDE 4' SERVICE SLACK IN ELECTRICAL CABLES AT TRANSITION BETWEEN GANGWAY AND FLOAT TO ALLOW FOR MAXIMUM ELEVATION CHANGE DUE TO TIDAL FLUCTUATION. PROVIDE STRAIN RELIEF TO MAINTAIN ALLOWABLE BEND RADIUS OF CABLING.

**ART ANDERSON**  
 830 PACIFIC AVE. BREMERTON, WA 98337  
 (360) 479-5600

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

DRAWN: MWM  
 DESIGNED: RAF  
 CHECKED: RBC

ISSUE DATE  
 31 JAN 2023

REVISIONS

JOB NO  
 FWPSI001.004

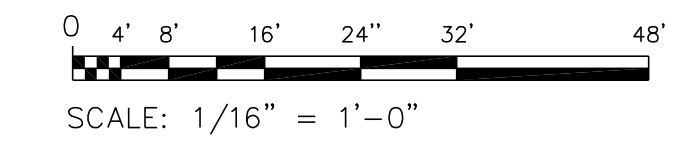
SHT TITLE  
 ENLARGED ELECTRICAL  
 PLAN - AREA B

SHT NO 16 OF 24

E202

**PREFINAL SUBMITTAL**  
 2023-JAN-31

1 **ENLARGED ELECTRICAL PLAN - AREA B**  
 SCALE: 1/16" = 1'-0"

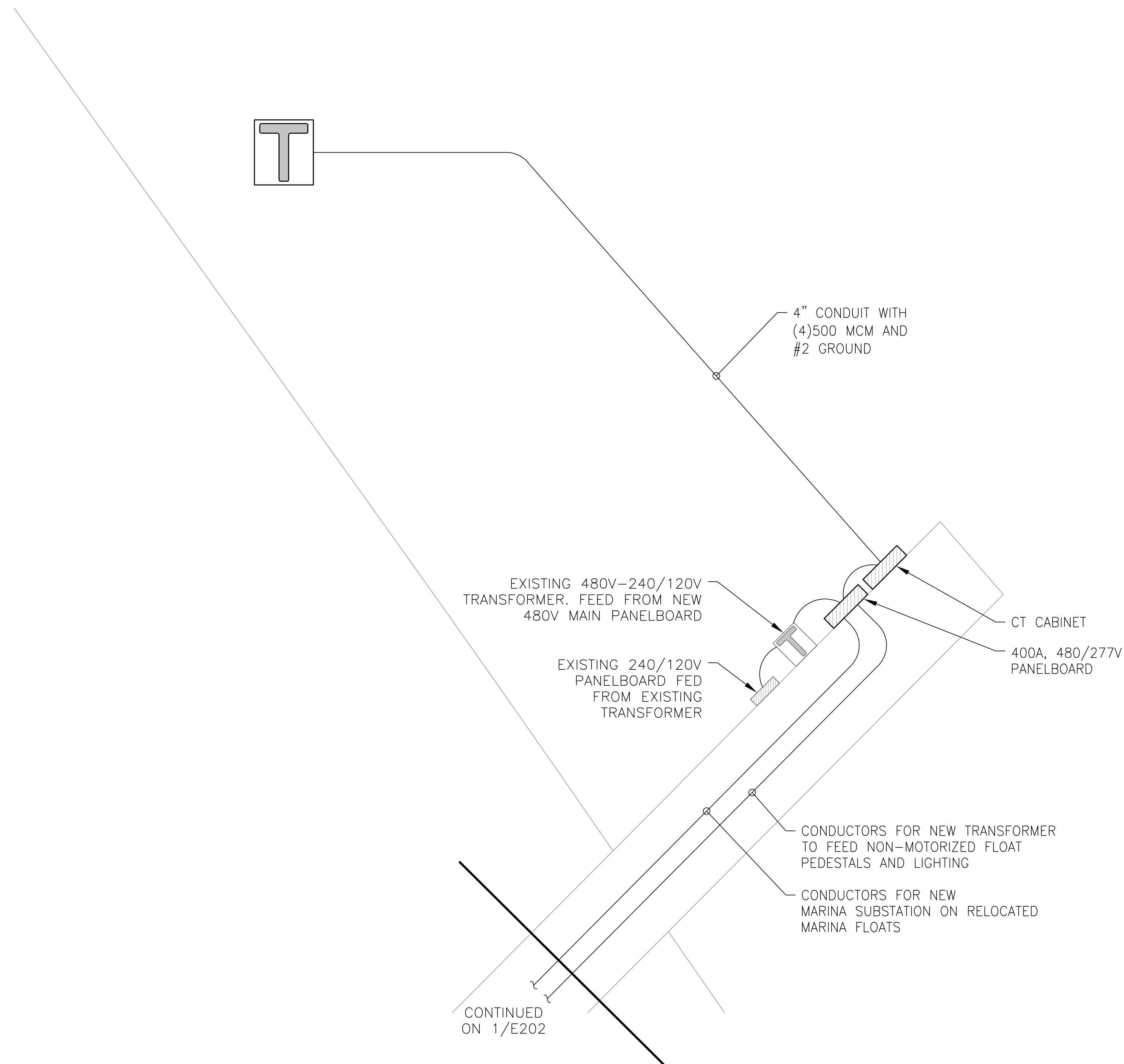


SHEET IS 22x34 ANSI D  
 IF PRINTING 11x17 USE  
 50% SCALE FACTOR



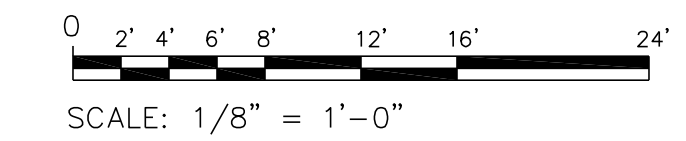
**SHEET NOTES**

1. ALL PIER CABLING SHALL BE WATER-TIGHT TYPE G CABLING SUPPORTED ON HANGERS UNDER DECKING ALONG EXISTING CONDUIT ROUTES.
2. REFER TO ONE LINE DIAGRAM ON SHEET E503 FOR CONDUCTOR SIZES.



**ENLARGED ELECTRICAL PLAN - AREA C**  
 SCALE: 1/8" = 1'-0"

**PREFINAL SUBMITTAL**  
 2023-JAN-31



SHEET IS 22x34 ANSI D  
 IF PRINTING 11x17 USE  
 50% SCALE FACTOR

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 31 JAN 2023

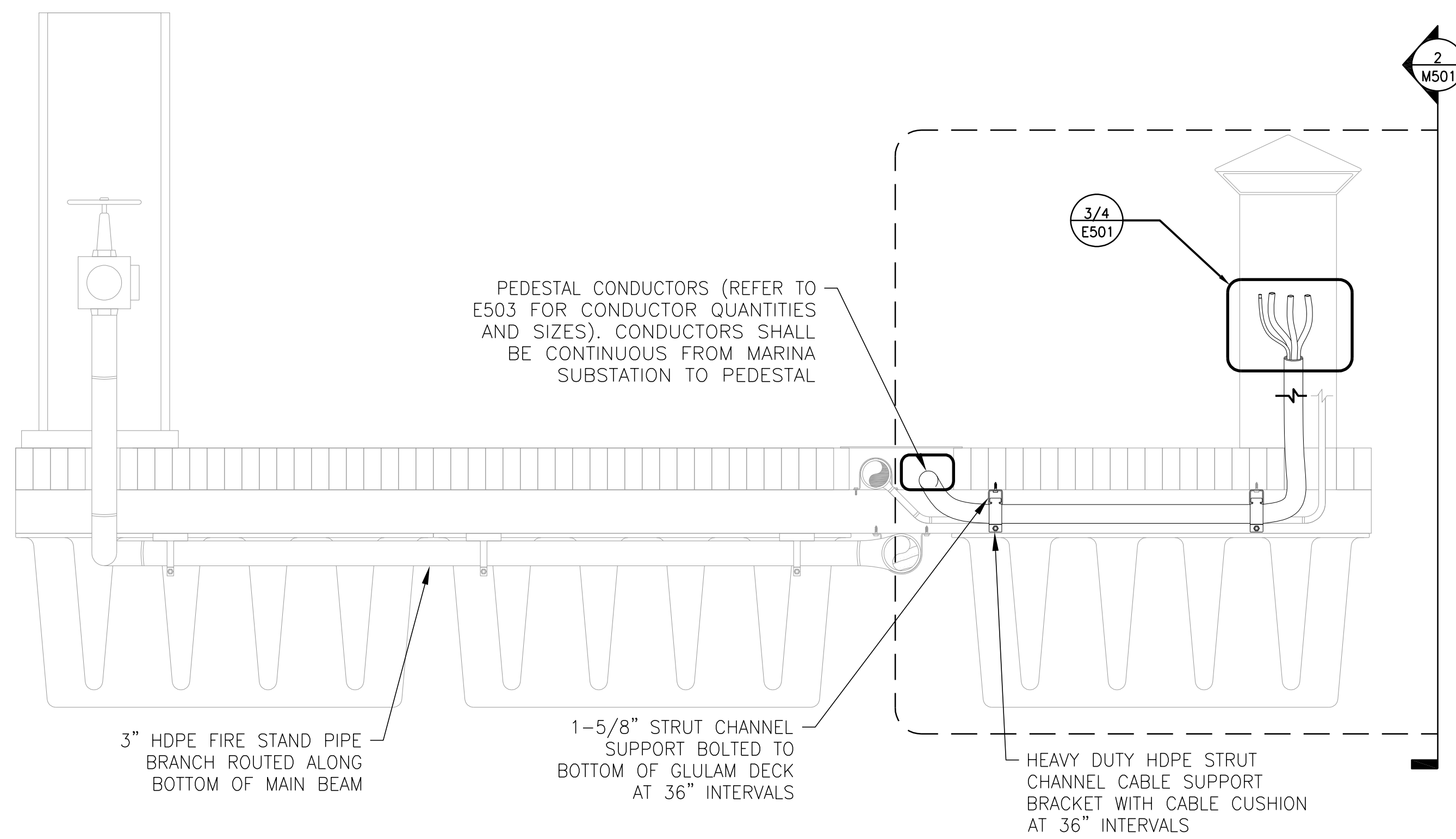
REVISIONS

JOB NO  
 FWPSI001.004

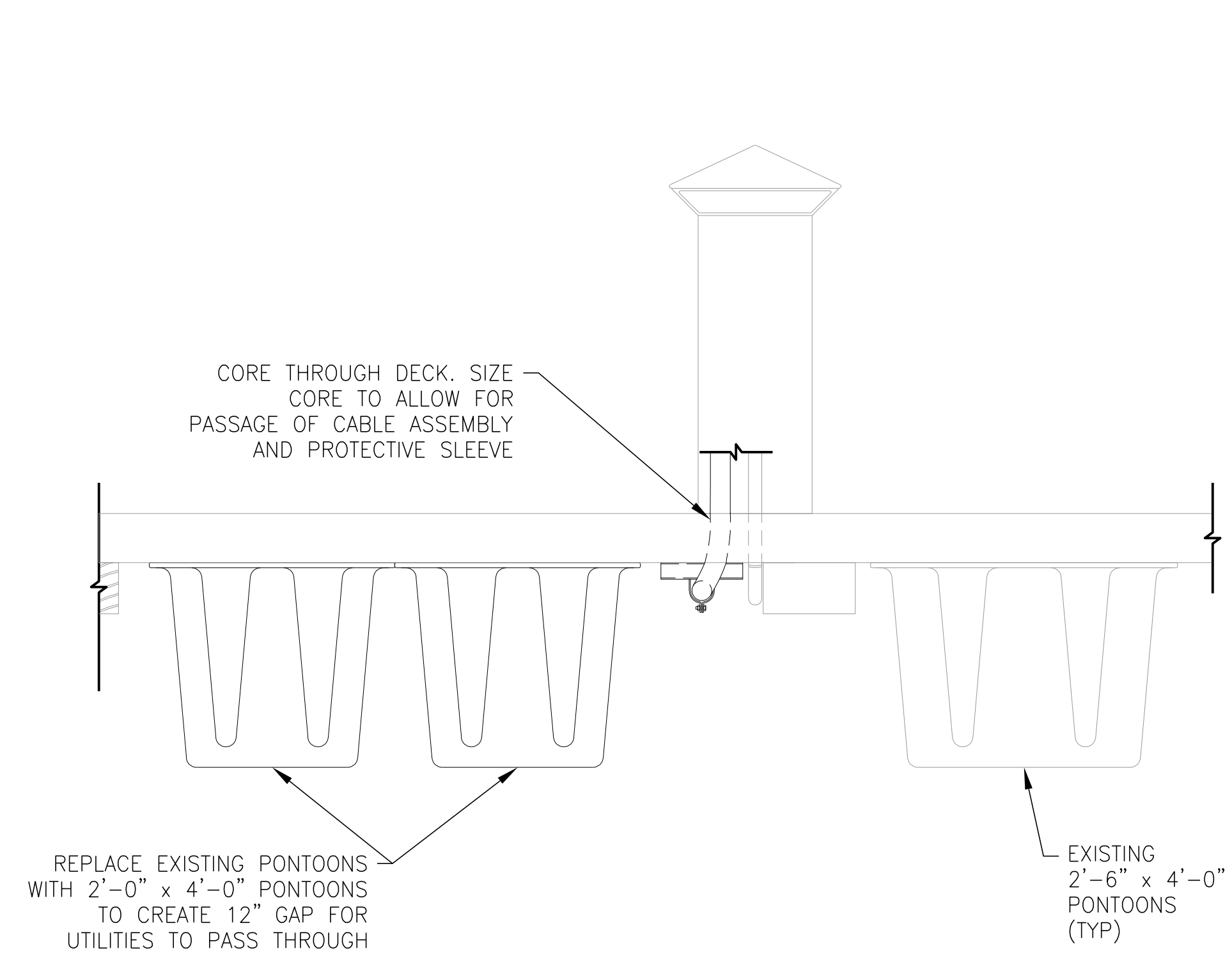
SHT TITLE  
 ENLARGED ELECTRICAL  
 PLAN - AREA C

SHT NO 17 OF 24

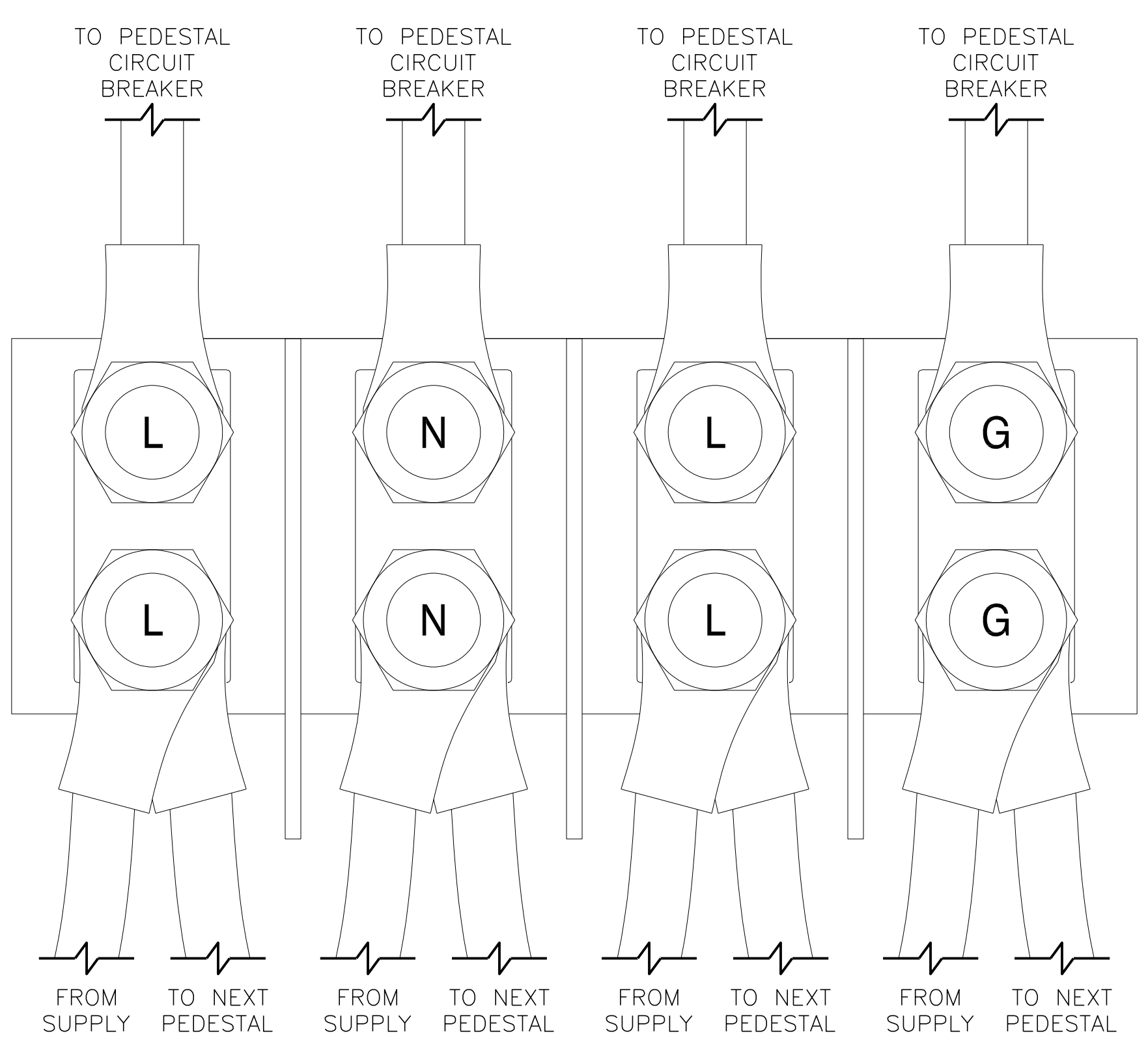
**E203**



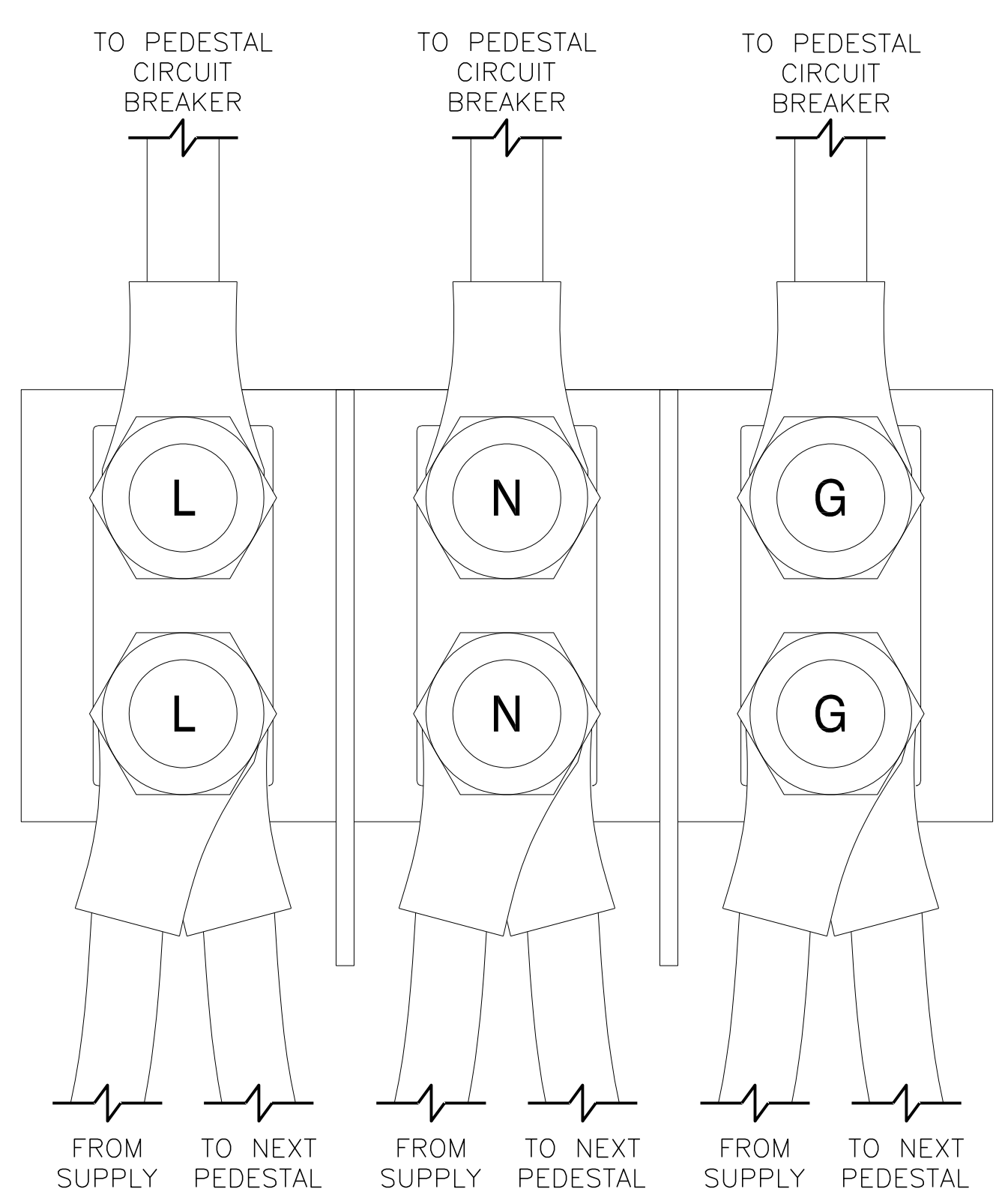
**1** FLOAT PEDESTAL ELECTRICAL ROUTING SECTION  
 E501 SCALE: 1" = 1'-0"



**2** FLOAT PEDESTAL ELECTRICAL ROUTING ELEVATION  
 E501 SCALE: 1" = 1'-0"

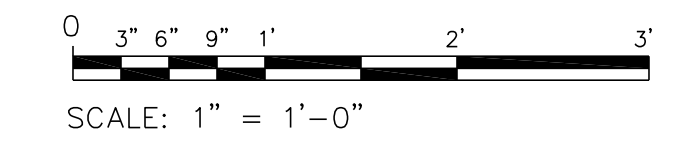


**3** 50A, 240V PEDESTAL POWER BLOCK DETAIL  
 E501 SCALE: NTS



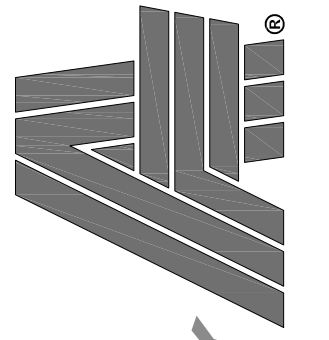
**4** 30A, 120V PEDESTAL POWER BLOCK DETAIL  
 E501 SCALE: NTS

**PREFINAL SUBMITTAL**  
 2023-JAN-31



SHEET IS 22x34 ANSI D  
 IF PRINTING 11x17 USE  
 50% SCALE FACTOR

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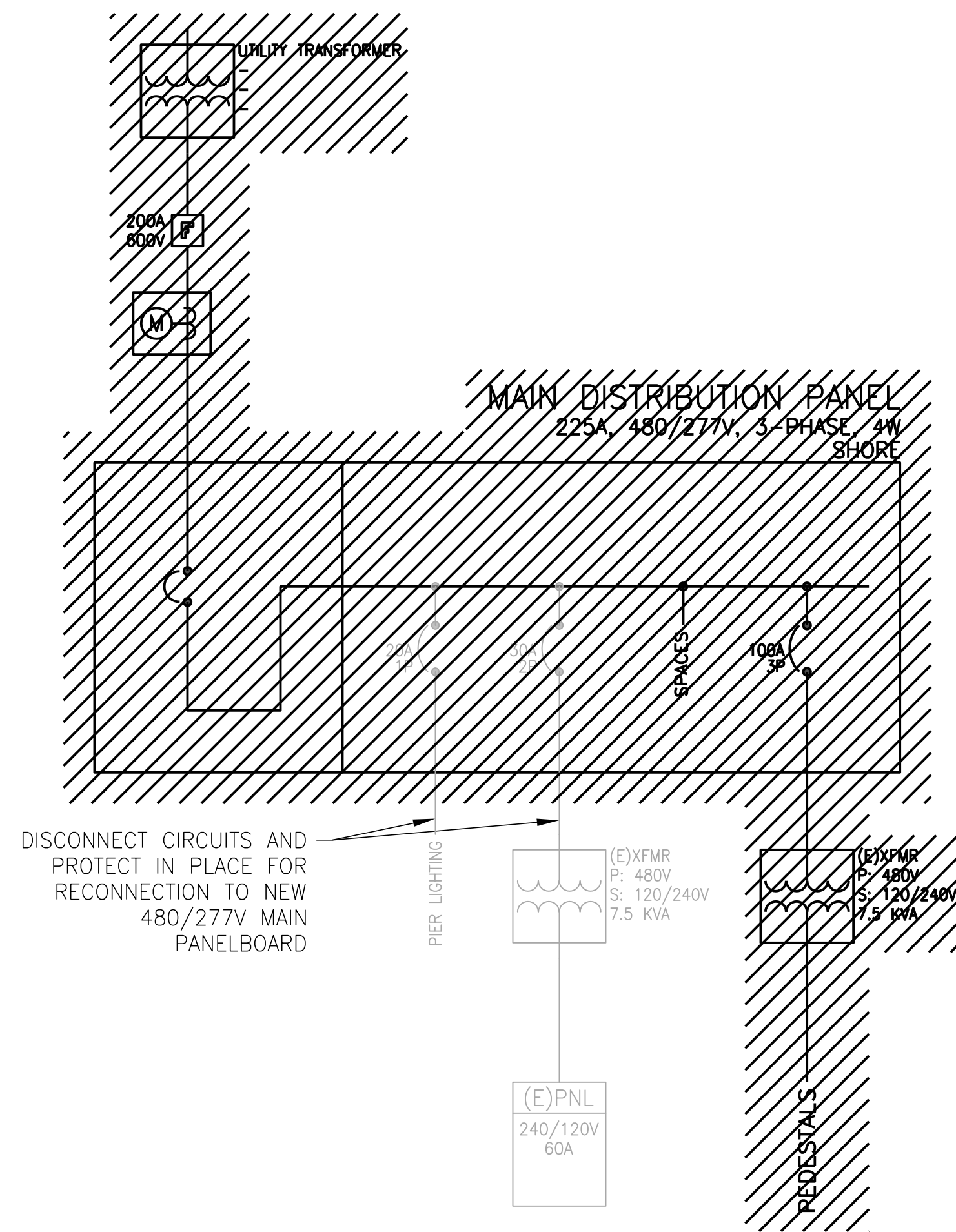
REVISIONS

JOB NO  
 FWPSI001.004

SHT TITLE  
 ELECTRICAL DETAILS

SHT NO 18 OF 24

**E501**



DISCONNECT CIRCUITS AND PROTECT IN PLACE FOR RECONNECTION TO NEW 480/277V MAIN PANELBOARD

**1** ELECTRICAL DEMOLITION ONE LINE DIAGRAM  
 E602 SCALE: NTS

**PREFINAL SUBMITTAL**  
 2023-JAN-31

SHEET IS 22x34 ANSI D  
 IF PRINTING 11x17 USE  
 50% SCALE FACTOR

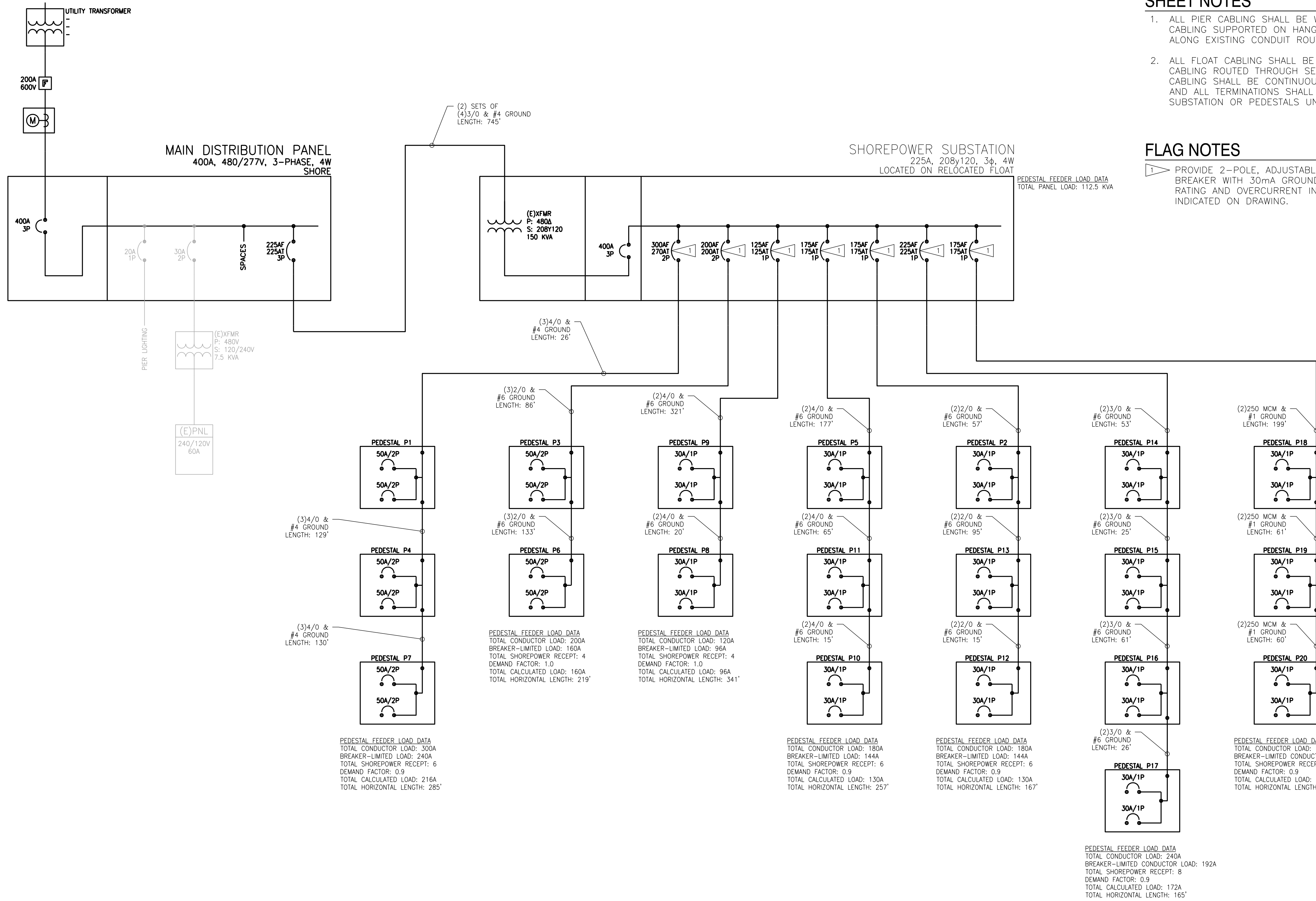
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JOB NO	FWPSI001.004
SHT TITLE	ELECTRICAL DEMOLITION ONE LINE DIAGRAM
SHT NO	19 OF 24

**E502**



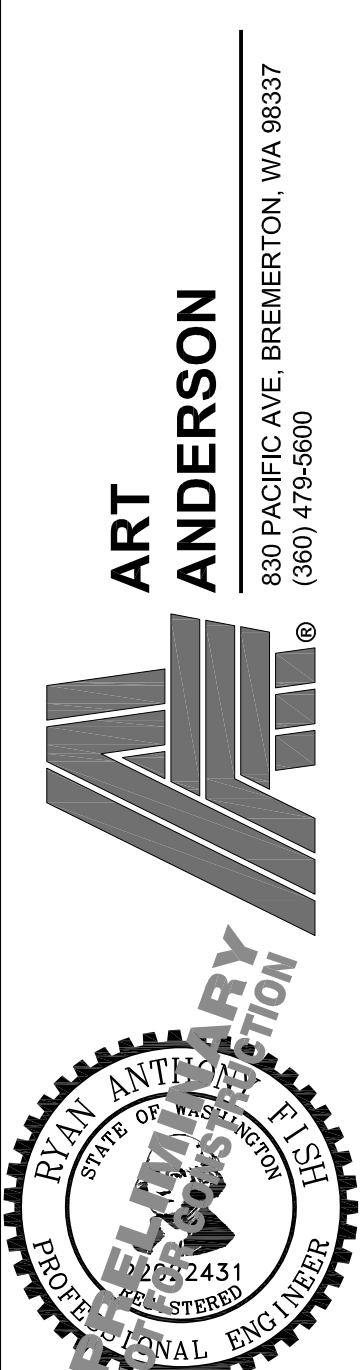


**SHEET NOTES**

1. ALL PIER CABLING SHALL BE WATER-TIGHT TYPE G CABLING SUPPORTED ON HANGERS UNDER DECKING ALONG EXISTING CONDUIT ROUTES.
2. ALL FLOAT CABLING SHALL BE WATER-TIGHT TYPE G CABLING ROUTED THROUGH SERVICE CHANNEL IN FLOAT. CABLING SHALL BE CONTINUOUS BETWEEN TERMINATIONS AND ALL TERMINATIONS SHALL BE WITHIN THE SUBSTATION OR PEDESTALS UNLESS OTHERWISE NOTED.

**FLAG NOTES**

- 1 PROVIDE 2-POLE, ADJUSTABLE TRIP, GFCI CIRCUIT BREAKER WITH 30mA GROUND FAULT INTERRUPT RATING AND OVERCURRENT INTERRUPT RATING AS INDICATED ON DRAWING.



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ISSUE DATE	31 JAN 2023
REVISIONS	
JOB NO	FWPSI001.004
SHT TITLE	ELECTRICAL ONE LINE DIAGRAM
SHT NO	20 OF 24

**1** ELECTRICAL ONE LINE DIAGRAM  
SCALE: NTS

**PREFINAL SUBMITTAL**  
2023-JAN-31

SHEET IS 22x34 ANSI D  
IF PRINTING 11x17 USE  
50% SCALE FACTOR

**E503**

### SHEET NOTES

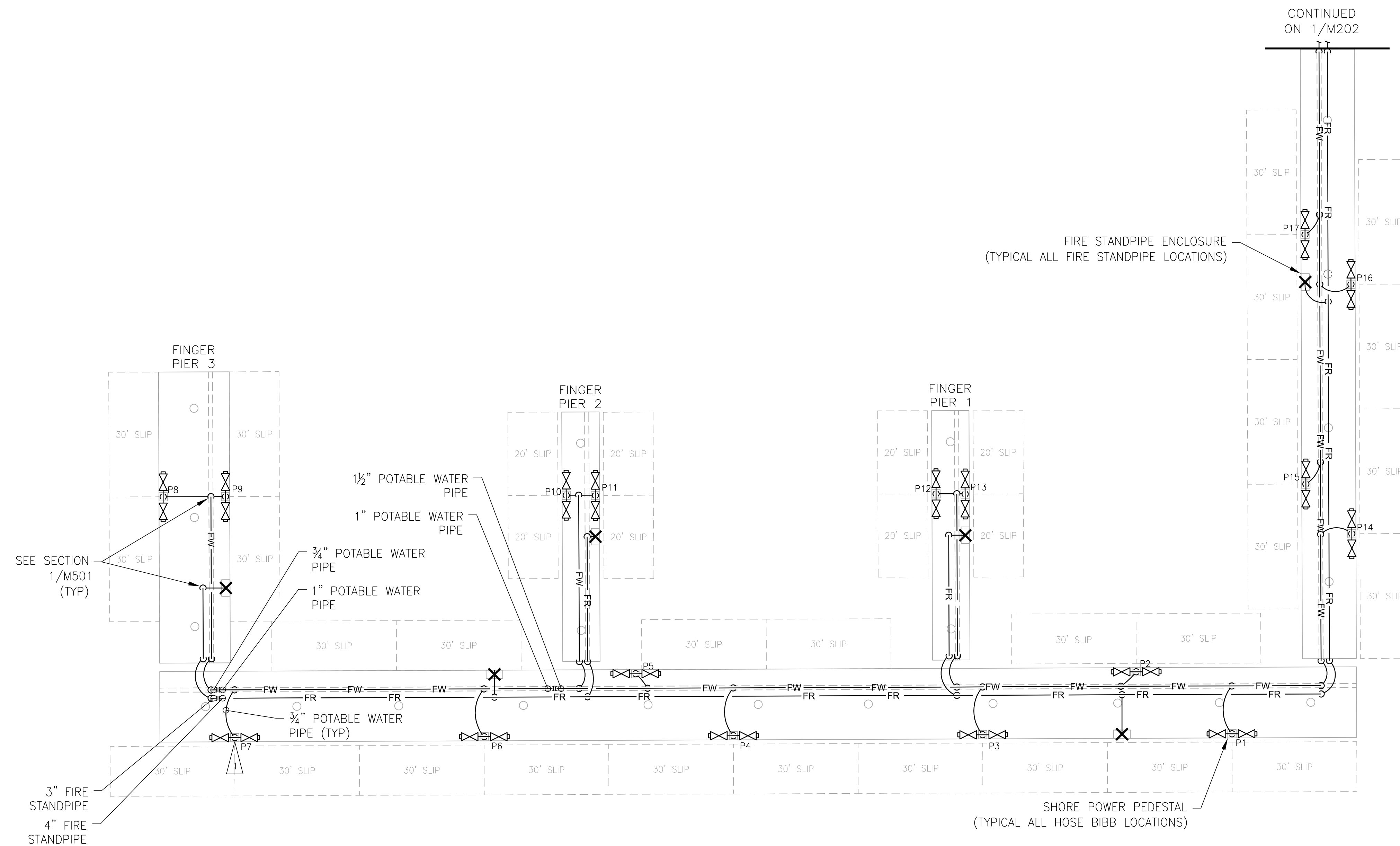
- NOT USED.

### FLAG NOTES

- PROVIDE 3/4" TO 1/2" TEE IN EACH PEDESTAL. ROUTE 1/2" PIPE TO TWO INTEGRATED HOSE BIBBS IN PEDESTAL.

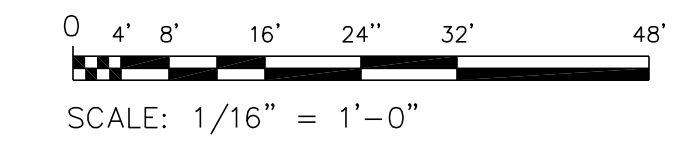
### SYMBOL LEGEND

- FW - POTABLE WATER PIPE  
(REFER TO DRAWING AND DETAILS FOR PIPE SIZES)
- FR - FIRE SUPPRESSION PIPE  
(REFER TO DRAWINGS AND DETAILS FOR PIPE SIZES)
- ✕ FIRE STANDPIPE
- ⊗ POTABLE WATER HOSE BIBB



**PREFINAL SUBMITTAL**  
2023-JAN-31

**1** ENLARGED MECHANICAL PLAN - AREA A  
SCALE: 1/16" = 1'-0"



SHEET IS 22x34 ANSI D  
IF PRINTING 11x17 USE  
50% SCALE FACTOR

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(360) 479-5600

**PORT OF SILVERDALE**  
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31 JAN 2023

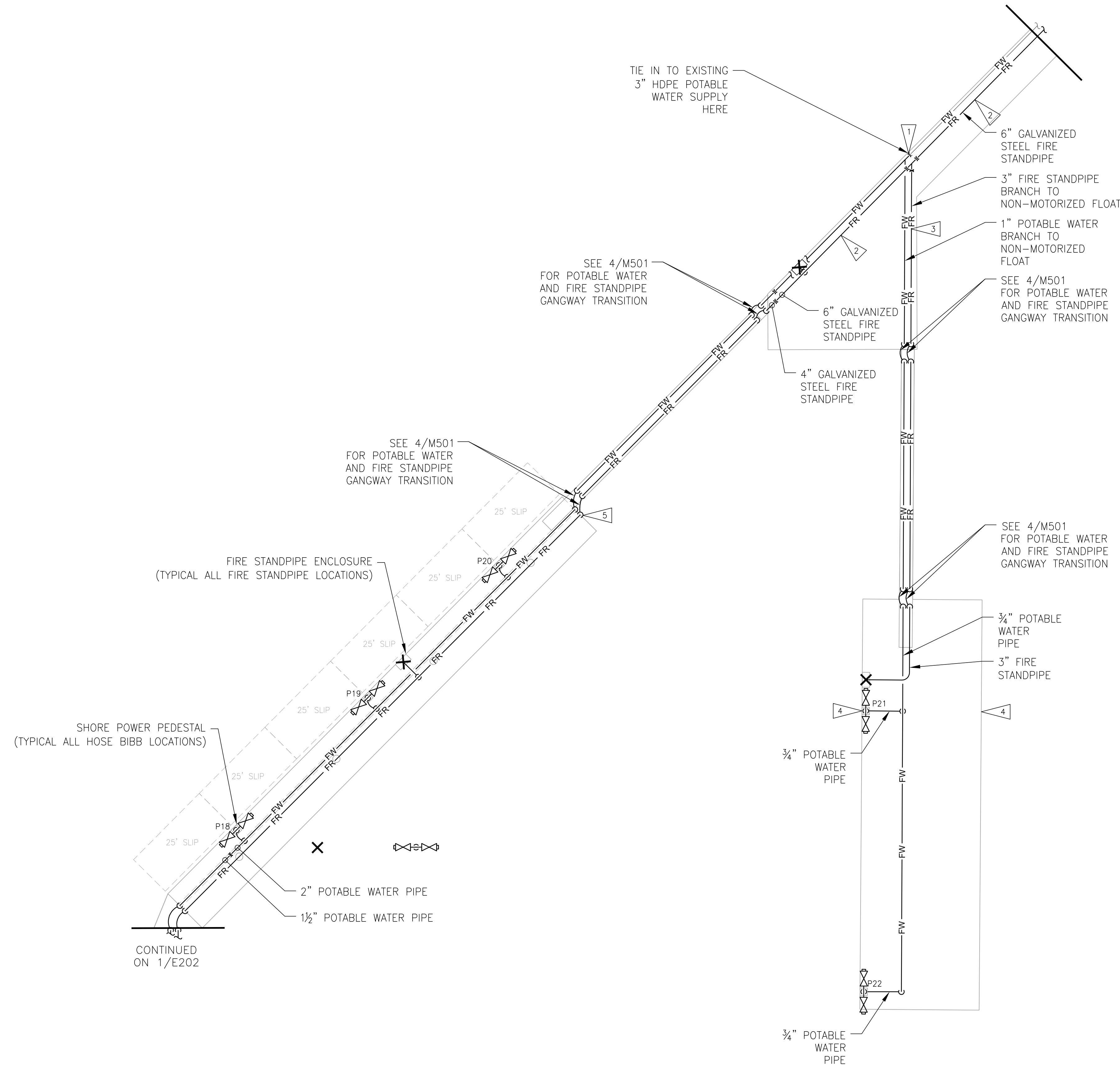
REVISIONS

JOB NO  
FWPSI001.004

SHT TITLE  
ENLARGED MECHANICAL  
PLAN - AREA A

SHT NO  
21 OF 24

**M201**



**SHEET NOTES**

1. NOT USED.

**FLAG NOTES**

- 1 CONNECT TO EXISTING POTABLE WATER AT THIS LOCATION.
- 2 PROVIDE NEW 6" FIRE STANDPIPE.
- 3 PROVIDE NEW 3" FIRE STANDPIPE
- 4 PROVIDE 3/4" TO 1/2" TEE IN EACH PEDESTAL. ROUTE 1/2" PIPE TO TWO INTEGRATED HOSE BIBBS IN PEDESTAL.
- 5 TRANSITION TO 4" HDPE FIRE STANDPIPE AT MAIN FLOAT.

**SYMBOL LEGEND**

- FW- POTABLE WATER PIPE (REFER TO DRAWING AND DETAILS FOR PIPE SIZES)
- FR- FIRE SUPPRESSION PIPE (REFER TO DRAWINGS AND DETAILS FOR PIPE SIZES)
- X FIRE STANDPIPE
- ⊗ POTABLE WATER HOSE BIBB

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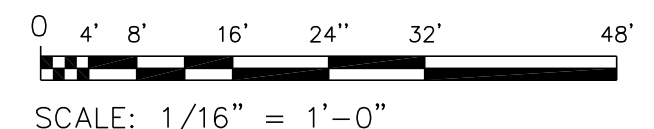
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 ENLARGED MECHANICAL  
 PLAN - AREA B

SHT NO 22 OF 24

**M202**

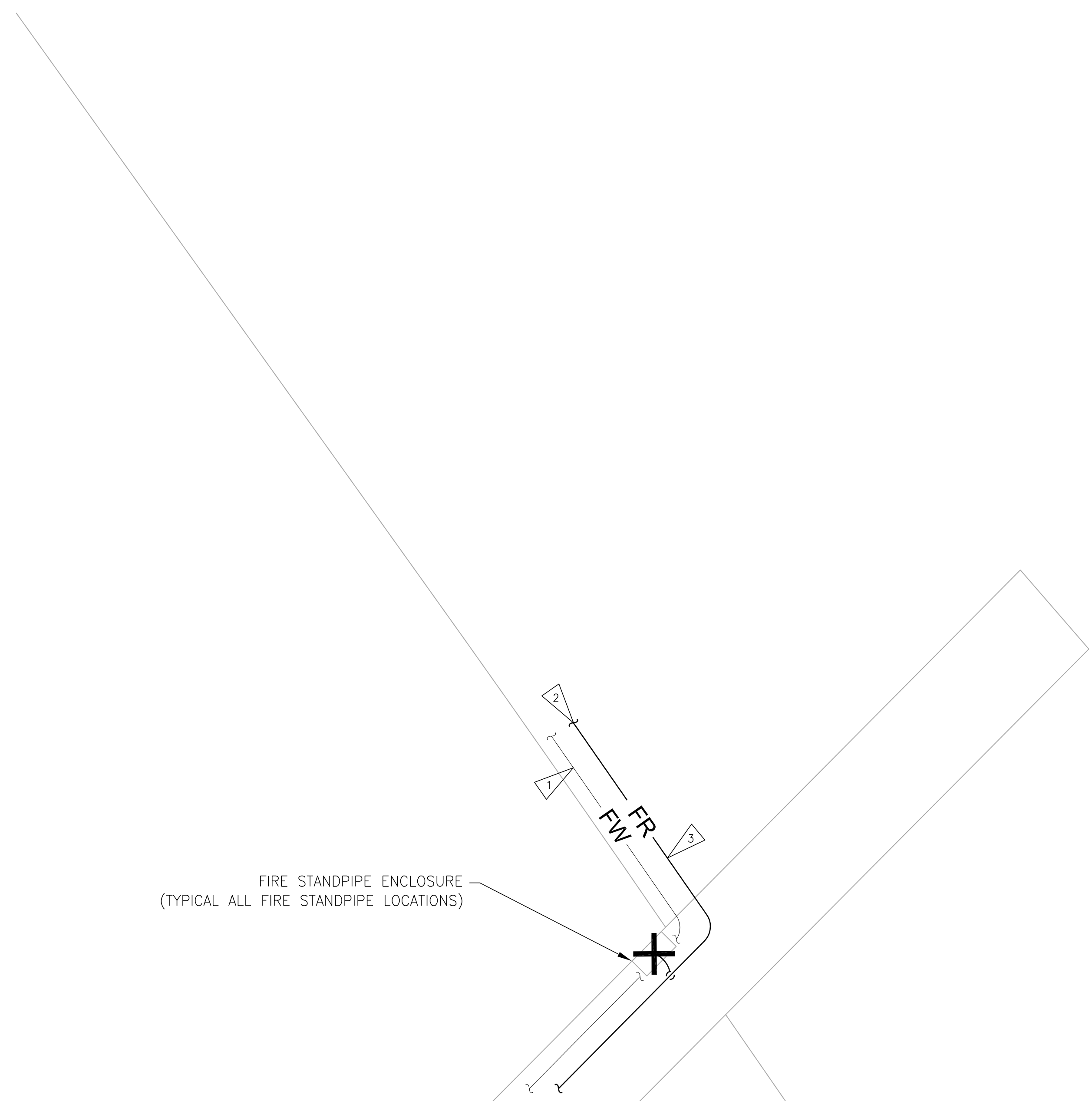
**PREFINAL SUBMITTAL**  
 2023-JAN-31

**ENLARGED MECHANICAL PLAN - AREA B**  
 SCALE: 1/16" = 1'-0"



SHEET IS 22x34 ANSI D  
 IF PRINTING 11x17 USE  
 50% SCALE FACTOR





FIRE STANDPIPE ENCLOSURE  
(TYPICAL ALL FIRE STANDPIPE LOCATIONS)

**SHEET NOTES**

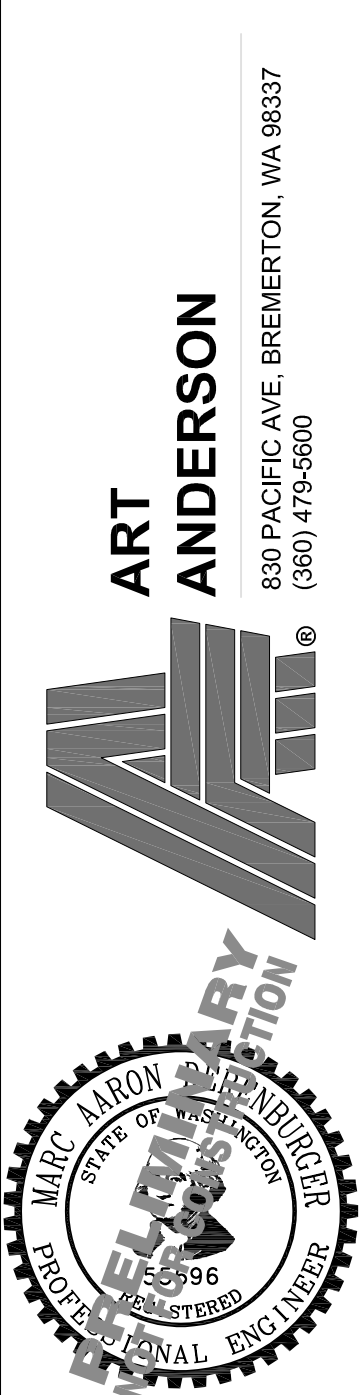
- 1. NOT USED.

**FLAG NOTES**

- 1 EXISTING POTABLE WATER SUPPLY.
- 2 APPROXIMATE LOCATION OF FIRE DEPARTMENT CONNECTION. SEE DETAIL 5/M501.
- 3 PROVIDE NEW 6" FIRE STANDPIPE.

**SYMBOL LEGEND**

- FW- POTABLE WATER PIPE  
(REFER TO DRAWING AND DETAILS FOR PIPE SIZES)
- FR- FIRE SUPPRESSION PIPE  
(REFER TO DRAWINGS AND DETAILS FOR PIPE SIZES)
- ✕ FIRE STANDPIPE



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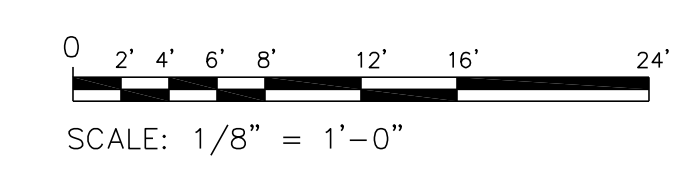
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ENLARGED MECHANICAL  
PLAN - AREA C

SHT NO 23 OF 24

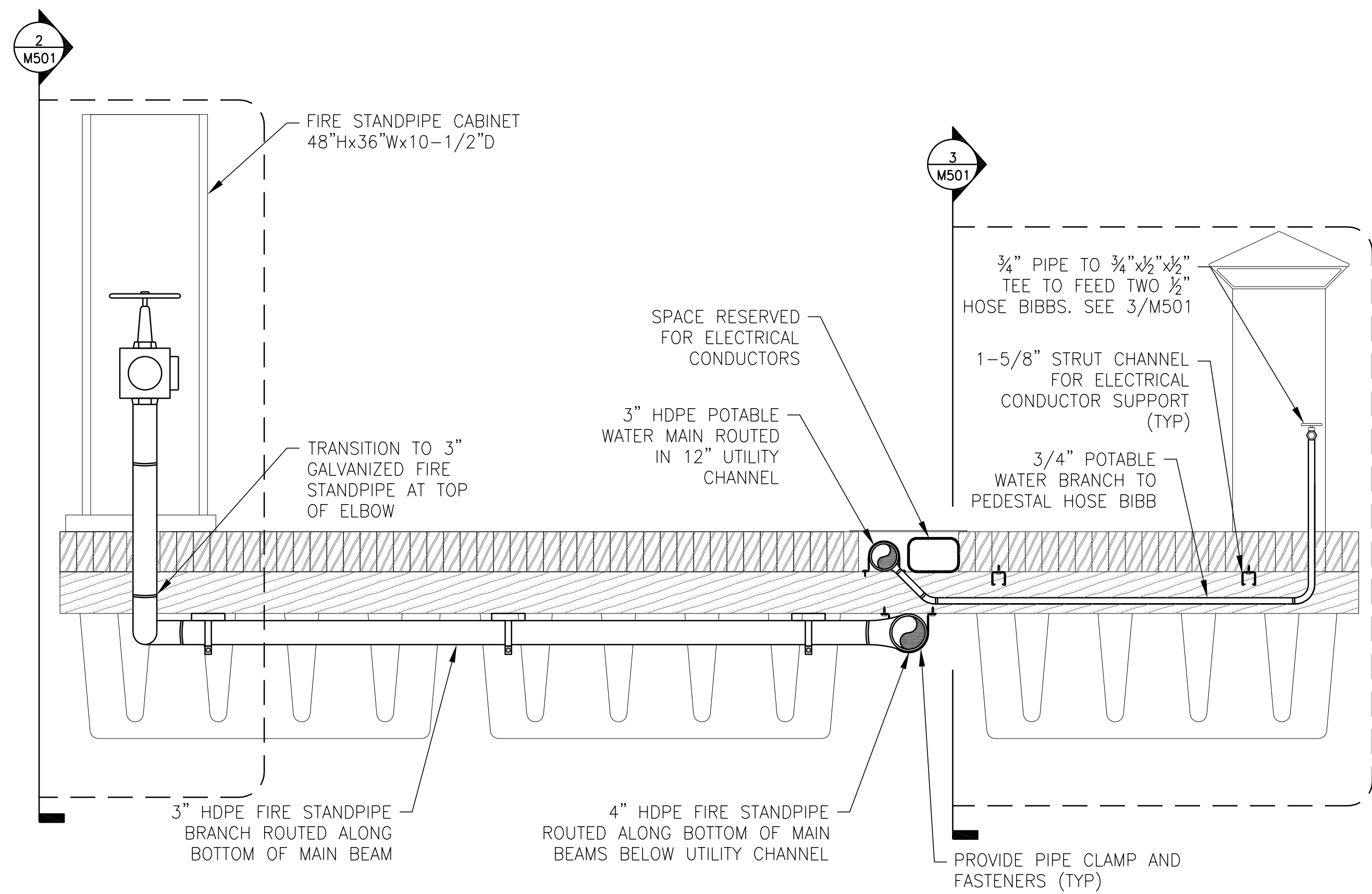
**M203**

**PREFINAL SUBMITTAL**  
2023-JAN-31

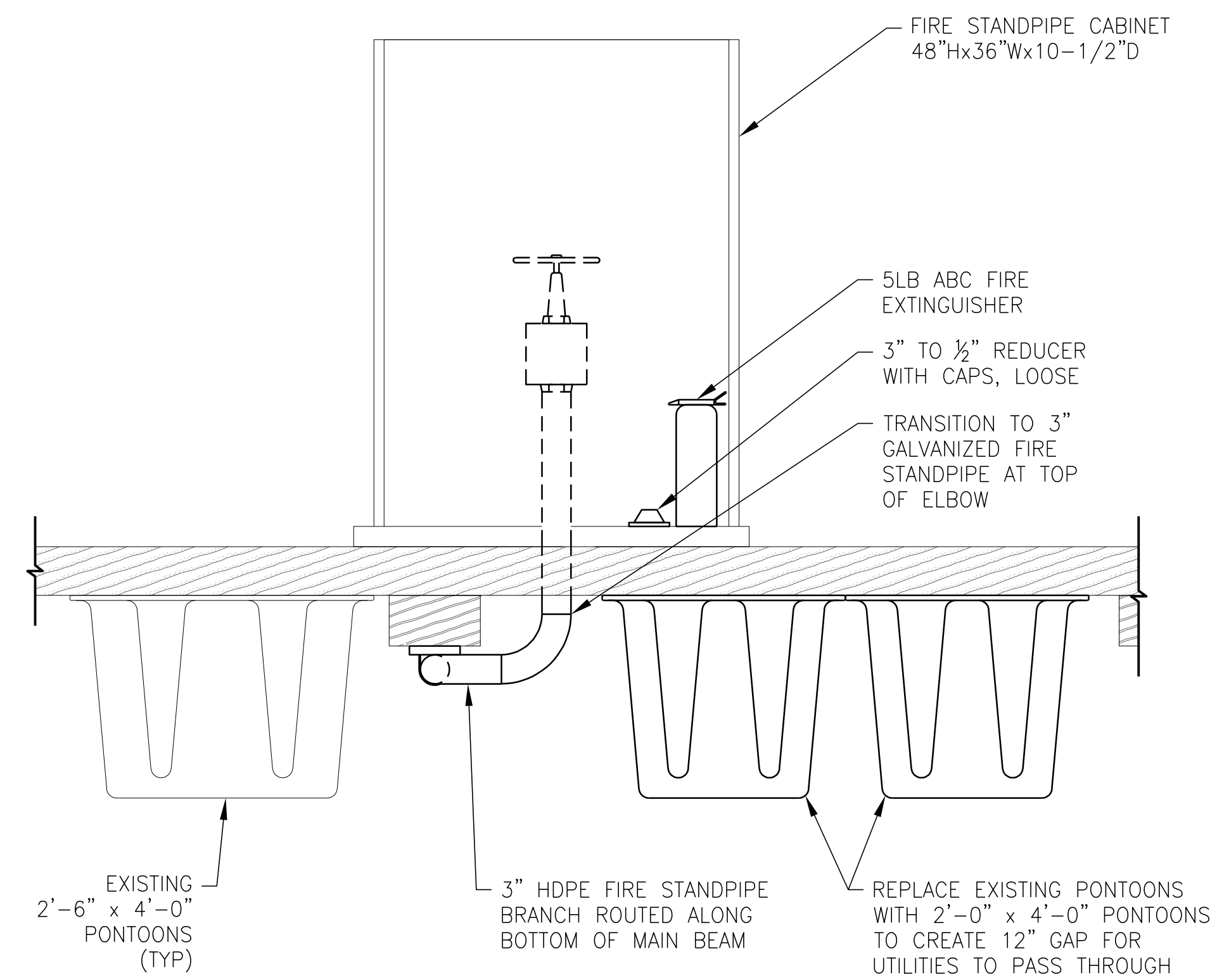
**ENLARGED MECHANICAL PLAN - AREA C**  
SCALE: 1/8" = 1'-0"



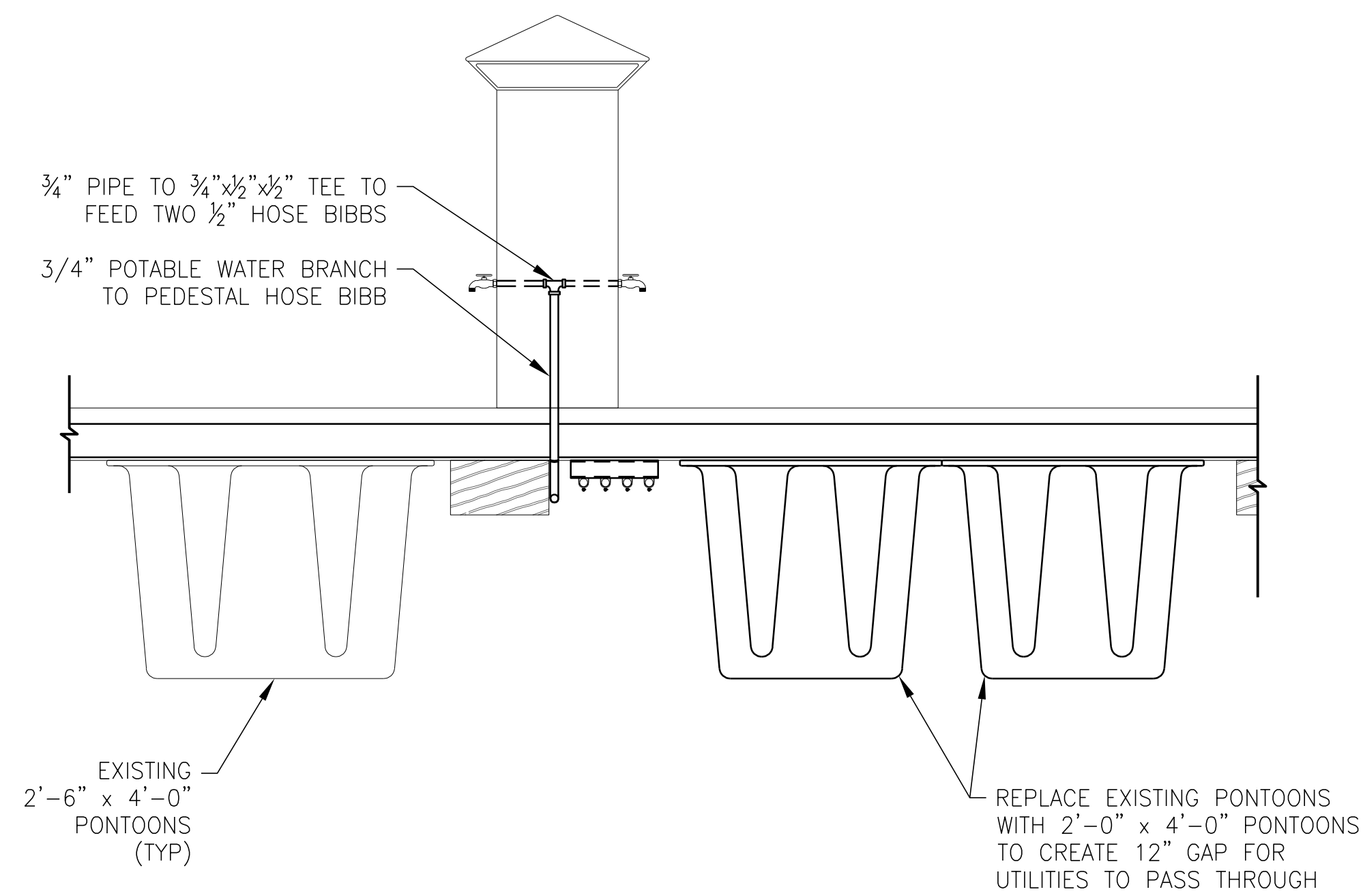
SHEET IS 22x34 ANSI D  
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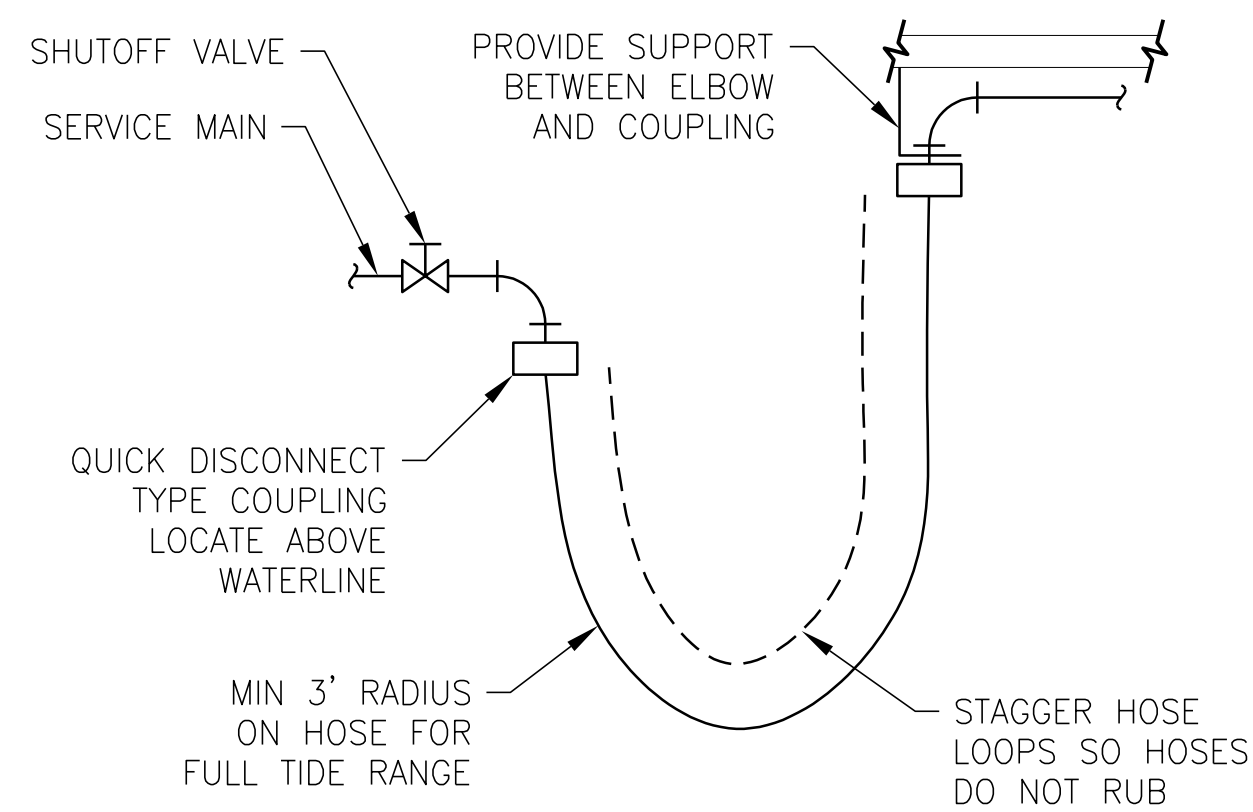
1  
M501  
**PIPE ROUTING SECTION**  
SCALE: 1" = 1'-0"



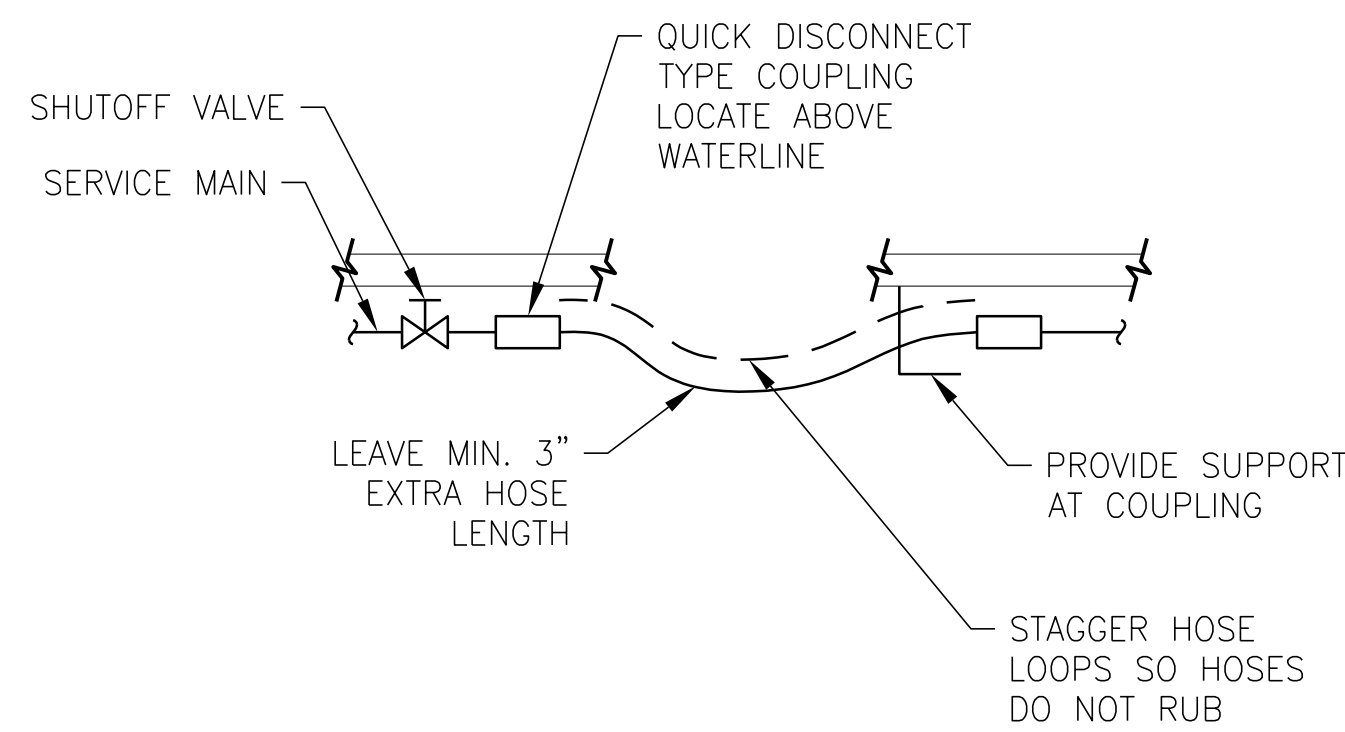
2  
M501  
**FIRE STANDPIPE ROUTING SECTION**  
SCALE: 1" = 1'-0"



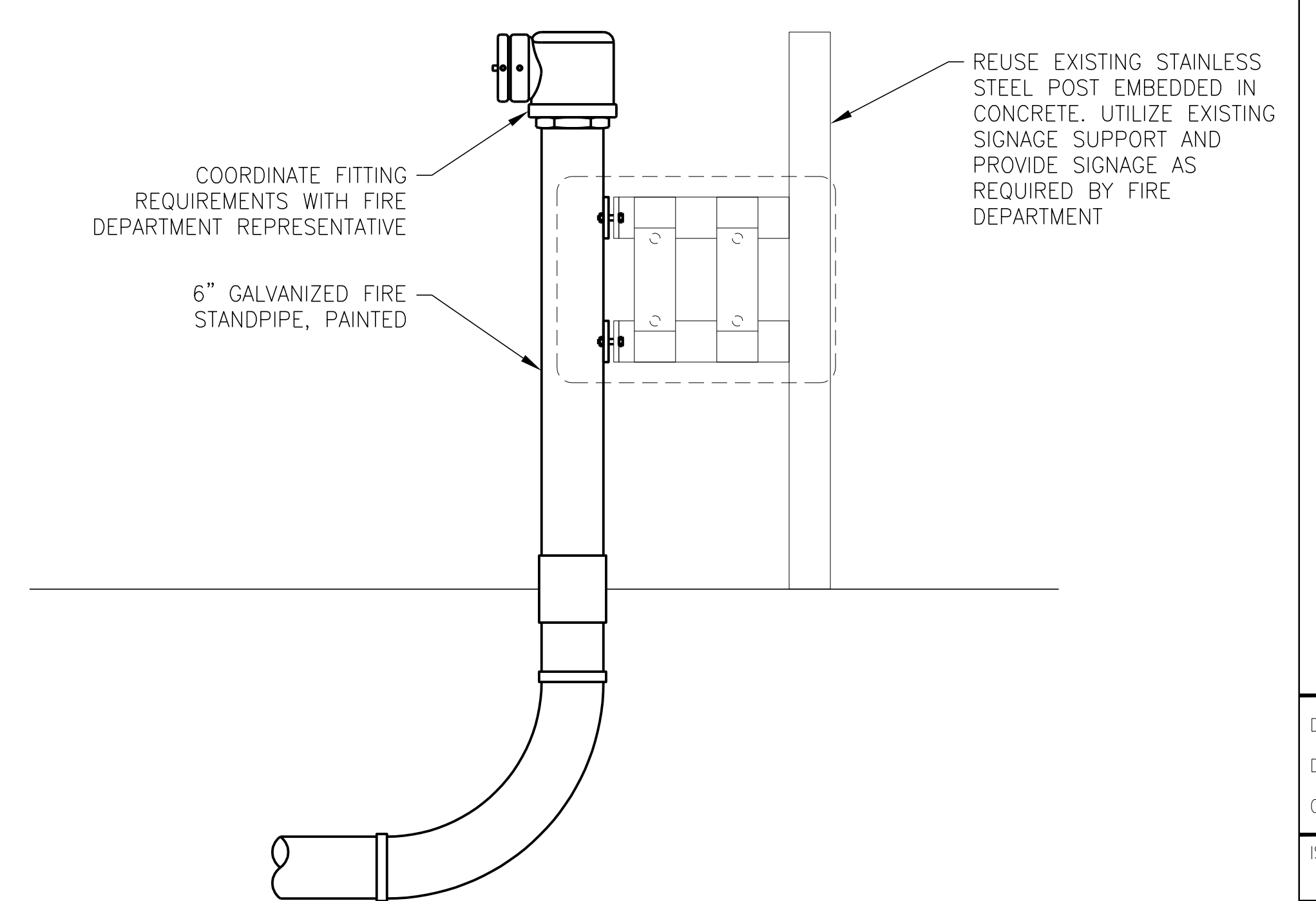
3  
M501  
**POTABLE WATER ROUTING SECTION**  
SCALE: 1" = 1'-0"



4  
M501  
**CONNECTION SCHEMATIC TYPICAL GANGWAY HOSE**  
SCALE: 1" = 1'-0"

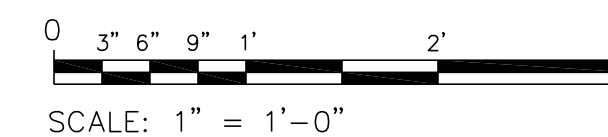


5  
M501  
**CONNECTION SCHEMATIC TYPICAL FLOAT TRANSITION HOSE**  
SCALE: 1" = 1'-0"



6  
M501  
**FIRE DEPT. HYDRANT OR MAIN CONNECTION DETAIL**  
SCALE: 1" = 1'-0"

**PREFINAL SUBMITTAL**  
2023-JAN-31



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SHT TITLE  
MECHANICAL DETAILS

SHT NO 24 OF 24

**M501**