PORTABLE (JIB) CRANE NOTES:

- 1. ALL STEEL COMPONENTS SHALL BE POWDER COAT FINISH (RED OR YELLOW COLOR.)
- 2. PERFORM A NO-LOAD TEST AND A LOAD TEST ON EACH CRANE IN THE PRESENCE OF THE ENGINEER AND WOODLAND PULP.
 - a. NO-LOAD TEST:
 - i RAISE EMPTY HOOK TO WITHIN ABOUT 2 FEET OF ITS UPPER POSITION AND STOP.ii RAISE EMPTY HOOK TO ITS MAXIMUM LIFT.
 - iii LOWER THE HOOK TO ABOUT 2 FEET ABOVE ITS LOWER POSITION AND STOP.
 - b. LOAD TEST: WITH THE SHEAVE BLOCK AT THE FAR END OF THE BOOM, ROTATE THE BOOM TROUGH ITS FULL ROTATIONAL CAPABILITY. MOVE THE SHEAVE BLOCK TO INNER END OF THE BOOM AND ROTATE THE BOOM THROUGH ITS FULL ROTATIONAL CAPABILITY. LOWER LOAD CAREFULLY ONTO ITS SUPPORTS.
- 3. SYSTEM SHALL RUN SMOOTHLY, WITH NO BINDING, STOPPING, OR STICKING. ADJUST AND REALIGN EQUIPMENT AND RETEST IF BINDING, STOPPING OR STICKING OCCURS.
- 4. ENSIGN 500 MODEL 5PA5
 - a. CONTRACTOR TO PROVIDE 1 ENSIGN 500 MODEL 5PA5 OR APPROVED EQUAL:
 - b. 500 LB MINIMUM WORKING LOAD.
 - c. MINIMUM HOOK REACH SHALL BE 36 INCHES.
 - d. PROVIDE WORM GEAR HAND WINCH WITH BRAKE.
 - e. MEET OSHA AND ANSI STANDARDS.
 - f. ADJUSTABLE MAST MADE OF STRUCTURAL STEEL.
 - g. MAXIMUM WEIGHT OF EACH CRANE PIECE SHALL BE 100 LBS.
 - h. FLUSH FLOOR MOUNT SLEEVE, THERN MODEL 5BF5 OR APPROVED EQUAL:
 - i MADE OF STRUCTURA STEEL.
 - ii LOCATE FLUSH MOUNT SLEEVE WHERE SHOWN OR NOTED ON THE DRAWINGS.iii EACH MOUNT SHALL HAVE A CAP TO KEEP WATER AND DEBRIS OUT OF BASE WHEN CRANE IS REMOVED.
- 5. COMMANDER 2000 MODEL 5FT20
 - a. CONTRACTOR TO PROVIDE 2 COMMANDER 2000 MODEL 5FT20 OR APPROVED EQUAL:
 - b. 2000 LB MINIMUM WORKING LOAD.
 - c. MINIMUM HOOK REACH SHALL BE 82 INCHES.
 - d. PROVIDE WORM GEAR HAND WINCH WITH BRAKE.
 - e. MEET OSHA AND ANSI STANDARDS.
 - f. ADJUSTABLE MAST MADE OF STRUCTURAL STEEL.
 - g. FLUSH FLOOR MOUNT SLEEVE, THERN MODEL 5BF20 OR APPROVED EQUAL: i MADE OF STRUCTURA STEEL.
 - ii LOCATE FLUSH MOUNT SLEEVE WHERE SHOWN OR NOTED ON THE DRAWINGS.
 - II LOCATE FLUSH MOUNT SLEEVE WHERE SHOWN OR NOTED ON THE DRAWING
 - iii EACH MOUNT SHALL HAVE A CAP TO KEEP WATER AND DEBRIS OUT OF BASE WHEN CRANE IS REMOVED.
 - h. WALL MOUNT SLEEVE, THERN MODEL 5BW20 OR APPROVED EQUAL:
 - i MADE OF STRUCTURA STEEL.
 - ii LOCATE FLUSH MOUNT SLEEVE WHERE SHOWN OR NOTED ON THE DRAWINGS.
 - iii EACH MOUNT SHALL HAVE A CAP TO KEEP WATER AND DEBRIS OUT OF BASE WHEN CRANE IS REMOVED.

	Staff Gauge						
Staff Gauge	Location	Drawings	Staff Gauge Top Elevation (FT)	Staff Gauge Bottom Elevation (FT)	Staff Gauge Length (FT)		
1	Tailrace by Fish Lift Entrance	M-002 & M-200	109.5	94.0	15.5		
2	Upstream Fish Lift Entrance	M-002 & M-200	109.5	94.0	15.5		
3	Between Stilling Wall and Weir Wall	M-002 & M-200	109.5	94.0	15.5		
4	Tailrace by Fish Ladder Entrance	M-002 & M-200	109.5	94.0	15.5		
5	Fish Ladder Entrance	M-002 & M-200	109.5	94.0	15.5		
6	Fish Ladder Weir Pool # 63	M-002 & M-200	146.0	140.0	6.0		
7	Fish Ladder Weir Pool # 64	M-002 & M-200	146.0	140.0	6.0		
8	Fish Ladder Weir Pool # 65	M-002 & M-200	146.0	140.0	6.0		
9	Fish Ladder Exit Pool	M-002 & M-200	146.0	140.0	6.0		
10	Exit Flume near Viewing Window	M-002 & M-200	146.0	140.0	6.0		
11	Downstream Bypass Trough	M-002 & M-200	146.5	140.0	6.5		
12	Exit Flume near Hopper	M-002 & M-200	146.0	140.0	6.0		

Water Level Sensor (WLS)							
Water Sensor	Location	Drawings	Sensor Top Elevation (FT)	Sensor Bottom Elevation (FT)	Water Level Probe Length (FT)		
1	Tailrace by Fish Lift Entrance	M-002 & M-200	110.0	92.0	18.0		
2	Upstream Fish Lift Entrance	M-002 & M-200	110.0	92.0	18.0		
3	Between Stilling Wall and Weir Wall	M-002 & M-200	110.0	92.0	18.0		
4	Tailrace by Fish Ladder Entrance	M-002 & M-200	110.0	92.5	17.5		
5	Upstream Fish Ladder Entrance	M-002 & M-200	110.0	92.5	17.5		
6	Fish Ladder Exit Pool	M-002 & M-200	146.0	140.0	6.0		
7	Exit Flume	M-002 & M-200	146.0	138.0	8.0		
8	Downstream Bypass Trough	M-002 & M-200	146.0	139.0	7.0		

Stilling Well Information				
Stilling Well	Invert Elevation	Orientation		
1 92.0 Bottom Opening facing centerline of fish lift entrance		Bottom Opening facing centerline of fish lift entrance		
292.0Bottom Opening facing centerline of fish lift entrance392.0Bottom Opening facing centerline of fish lift flume492.5Bottom Opening facing tailrace near fish ladder entrance				
		Bottom Opening facing tailrace near fish ladder entrance		
		5	92.5	bottom opening facing centerline of fish ladder
6	140.0	bottom opening facing centerline of fish ladder		
7	7 138.0 Bottom Opening facing centerline of exit flume			
8	139.0	Bottom Opening facing centerline of downstream bypass flume		

			Gate Schedule				
Gate ID	Gate Name	Drawings	Material	Opening Width	Gate Height	Operating Head	Discharge
IG1	Fish Lift Isolation Gate	M-002 & M-100	Painted Carbon Steel	8.0'	12.6'	9.7'	Upward Opening
EG2	Fish Lift Entrance Gate	M-002 & M-101	Painted Carbon Steel	8.0'	12.5'	3.0'	Downward Opening
VG3	Fish Lift V-Gate	M-002 & M-102	Painted Carbon Steel	14.0'	15.5'	11.2'	Swing
HG5	Fish Lift Hopper Gate	M-002 & M-112	Painted Carbon Steel	3.0'	5.66'	5.66'	Downward Opening
IG6	Exit Flume Isolation Gate	M-002 & M-120	Painted Carbon Steel	8.0'	11.0'	10.0'	Upward Opening
IG10	Exit Flume Isolation Gate	M-002 & M-131	Painted Carbon Steel	6.0'	5.1'	4.4'	Upward Opening
OWG11	Fish Ladder Automatic Entrance Gate	M-002 & M-141	Painted Carbon Steel	2.0'	Adjustable	3.0'	Downward Opening
IG12	Fish Ladder Isolation Gate	M-002 & M-140	Painted Carbon Steel	2.0'	11.0'	8.1'	Upward Opening
OWG13	Fish Ladder Automatic Exit Gate	M-002 & M-142	Painted Carbon Steel	2.0'	Adjustable	3.0'	Downward Opening
(NIC) DSG14	Downstream Bypass Knife Gate	M-002 & M-160	Painted Carbon Steel	3.0'	3.0'	7.5'	Upward Opening
(NIC) DSG15	Downstream Bypass Knife Gate	M-002 & M-160	Painted Carbon Steel	3.0'	3.0'	7.5'	Upward Opening
IG16	Downstream Isolation Gate	M-002 & M-163	Painted Carbon Steel	6.0'	6.75'	5.4'	Upward Opening
IG17	Fish Ladder Exit Isolation Gate	M-002 & M-143	Painted Carbon Steel	2.0'	7.75'	6.8'	Upward Opening
TG18	Exit Flume Trap Gate	M-002 & M-124	Painted Carbon Steel	2.083'	10.292'	10.0'	Swing
TG19	Exit Flume Trap Gate	M-002 & M-124	Painted Carbon Steel	2.083'	10.292'	10.0'	Swing

Permanent Stoplogs (SL) and Spacer Frames (SF)							
ID	Location	Туре	Quantity	Drawing	Material	Opening Width	
SF1	Spare for Fish Lift Concrete Flume	1' High Spacer Frame	2	M-118	Aluminum	14.0'	
SF2	Spare for Fish Lift Concrete Flume	2' High Spacer Frame	1	M-118	Aluminum	14.0'	
SF3	Fish Lift Stilling Wall	2' High Spacer Frame	3	M-118	Aluminum	14.0'	
SF4	Fish Lift Curtain Wall	2' High Spacer Frame	3	M-118	Aluminum	14.0'	
SL1	Fish Lift Stilling Wall	12" High Stoplog	9	S-101	Aluminum	14.0'	
SL2	Fish Lift Stoplog Weir	12" High Stoplog	11	S-101	Aluminum	14.0'	
SL3	Fish Lift Sill Wall	12" High Stoplog	3	S-101	Aluminum	14.0'	
SL4	Fish Lift Curtain Wall	12" High Stoplog	9	S-101	Aluminum	14.0'	
SL5	Bypass 1 Flume	6" High Stoplog	5	S-174	Aluminum	5.5'	
SL6	Fish Lift Steel Flume	6" High Stoplog	5	S-137	Aluminum	6.0'	

Hoist and Crane Schedule (Refer to Portable Jib Crane Notes)						
Name	Location	Lifting Capacity	Crane/ Hoist/Base Model	Reach	Drawing	What is it lifting
HH4	Fish Lift Tower	30-Tons	See Spec 41 22 00	N/A	M-110	Hopper
CH1	Exit Flume Crowder	2-Ton	Harrington 2-Ton Electric Hoist Hook-Mounted (SNER020L-20)	N/A	S-126	Moving Floor
CH2	Exit Flume Crowder	1/2-Ton	Harrington 1/2 Ton Chain Hoist with Trolley (SNERM005S-L)	N/A	S-129	Crowder Screens
(NIC) JH1	Bypass Trough	1/2-Ton	Harrington Heavy-Duty Pillar Base Mounted Jib Crane 351-1000-20-12	20 ft	S-160	Backwash Pump
JH2	Bypass Trough	1/2-Ton	Harrington Heavy-Duty Pillar Base Mounted Jib Crane 351-1000-20-12	20 ft	S-160	Stoplogs
JH3	Fish Ladder/Exit Flume	1/2-Ton	Harrington Mast Type Jib Crane 314FC-1000-10-10	10 ft	C-142	Adjustable Weirs
5PT20_FM_1	Fish Lift Concrete Flume	1-Ton	Commander 2000 Series 5PT20 - Flush Mounted Base	N/A	S-100	Stoplogs
5PT20_FM_2	Exit Flume	1-Ton	Commander 2000 Series 5PT20 - Flush Mounted Base	N/A	S-121	Bar Rack and Stoplogs
5PT20_FM_3	Fish Ladder Entrance	1-Ton	Commander 2000 Series 5PT20 - Flush Mounted Base	N/A	C-144	Stoplogs
5PT20_WM_1	Fish Lift Concrete Flume	1-Ton	Commander 2000 Series 5PT20 - Wall Mounted Base	N/A	S-100	V-Gate Screens
5PT20_WM_2	Fish Lift Concrete Flume	1-Ton	Commander 2000 Series 5PT20 - Wall Mounted Base	N/A	S-100	V-Gate Screens
5PT20_WM_3	Fish Lift Concrete Flume	1-Ton	Commander 2000 Series 5PT20 - Wall Mounted Base	N/A	S-100	Perforated Plate Screen
5PT20_WM_4	Fish Lift Concrete Flume	1-Ton	Commander 2000 Series 5PT20 - Wall Mounted Base	N/A	S-100	Perforated Plate Screen
5PT20_WM_5	Fish Lift Concrete Flume	1-Ton	Commander 2000 Series 5PT20 - Wall Mounted Base	N/A	S-100	Perforated Plate Screen
5PT20_WM_6	Fish Lift Concrete Flume	1-Ton	Commander 2000 Series 5PT20 - Wall Mounted Base	N/A	S-100	Perforated Plate Screen
5PA5_FM_0	Fish Ladder Entrance	1/4 Ton	Ensign 500 Series 5PA5 - Flush Mounted Base	N/A	C-144	Safety Retrieval
5PA5_FM_1	Fish Ladder Pool 1	1/4 Ton	Ensign 500 Series 5PA5 - Flush Mounted Base	N/A	C-144	Safety Retrieval
5PA5_FM_2	Fish Ladder Pool 2	1/4 Ton	Ensign 500 Series 5PA5 - Flush Mounted Base	N/A	C-144	Safety Retrieval
5PA5_FM_3	Fish Ladder Pool 3	1/4 Ton	Ensign 500 Series 5PA5 - Flush Mounted Base	N/A	C-143	Safety Retrieval
5PA5_FM_4	Fish Ladder Pool 4	1/4 Ton	Ensign 500 Series 5PA5 - Flush Mounted Base	N/A	C-143	Safety Retrieval
5PA5_FM_5	Fish Ladder Pool 5	1/4 Ton	Ensign 500 Series 5PA5 - Flush Mounted Base	N/A	C-143	Safety Retrieval
5PA5_FM_6	Fish Ladder Pool 6	1/4 Ton	Ensign 500 Series 5PA5 - Flush Mounted Base	N/A	C-142	Safety Retrieval
5PA5_FM_7	Fish Ladder Pool 7	1/4 Ton	Ensign 500 Series 5PA5 - Flush Mounted Base	N/A	C-142	Safety Retrieval
5PA5_FM_8	Fish Ladder Exit	1/4 Ton	Ensign 500 Series 5PA5 - Flush Mounted Base	N/A	C-142	Safety Retrieval
5PA5_FM_9	Exit Flume	1/4 Ton	Ensign 500 Series 5PA5 - Flush Mounted Base	N/A	C-142	Safety Retrieval
5PA5_FM_10	Fish Lift Concrete Flume	1/4 Ton	Ensign 500 Series 5PA5 - Flush Mounted Base	N/A	S-100	Safety Retrieval



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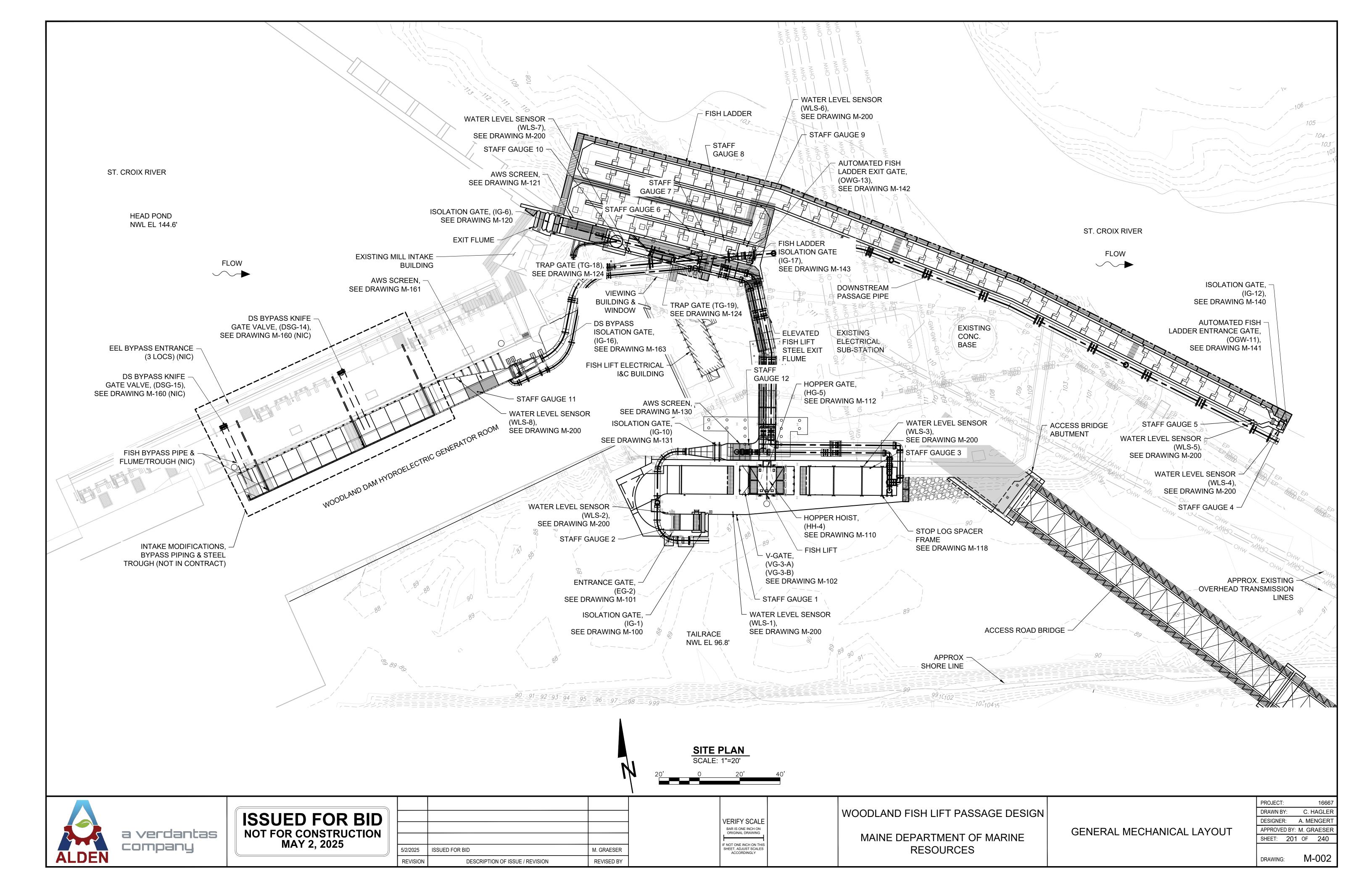
WOODLAND FISH LIFT PASSAGE DESIGN

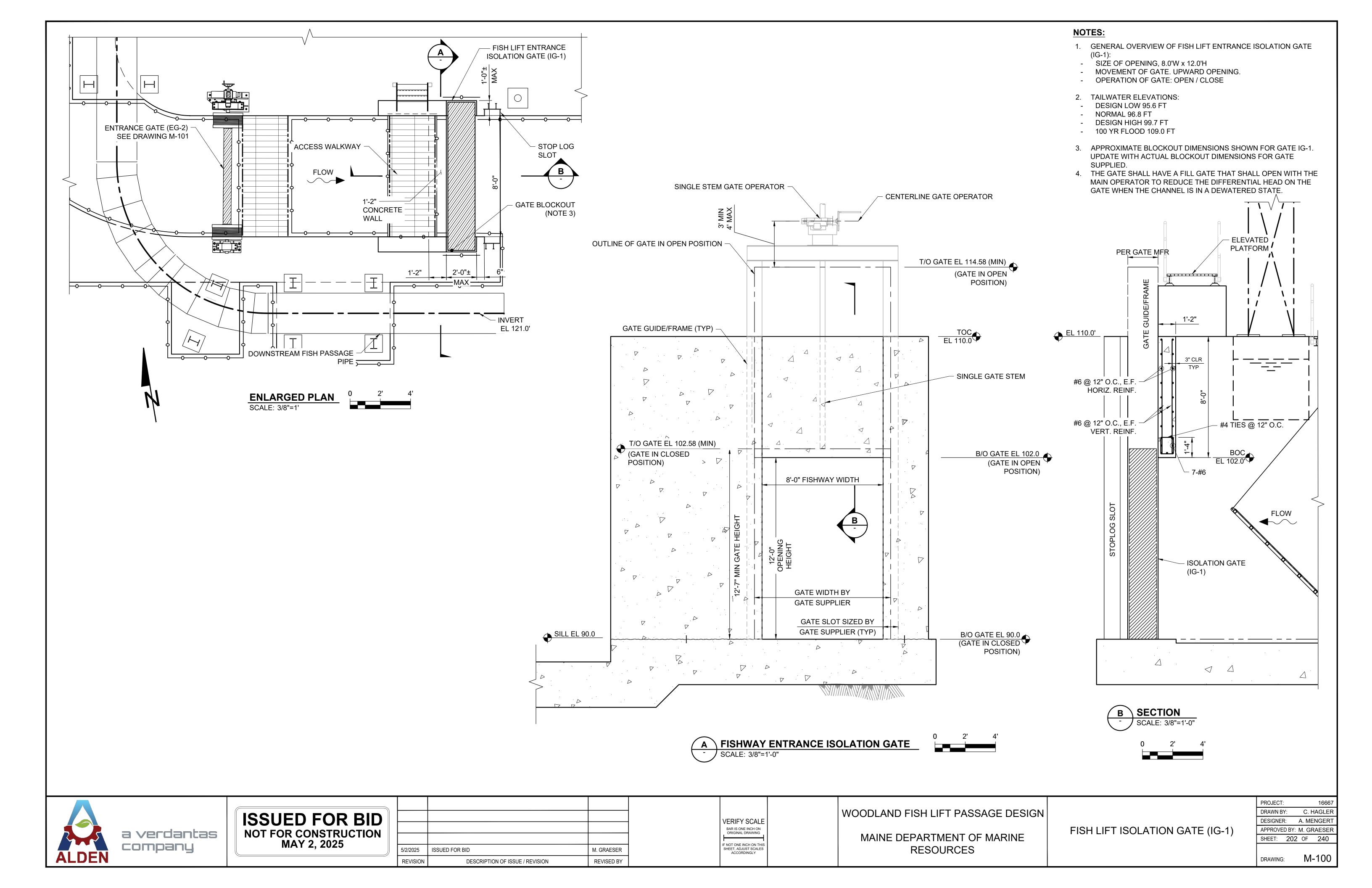
MAINE DEPARTMENT OF MARINE

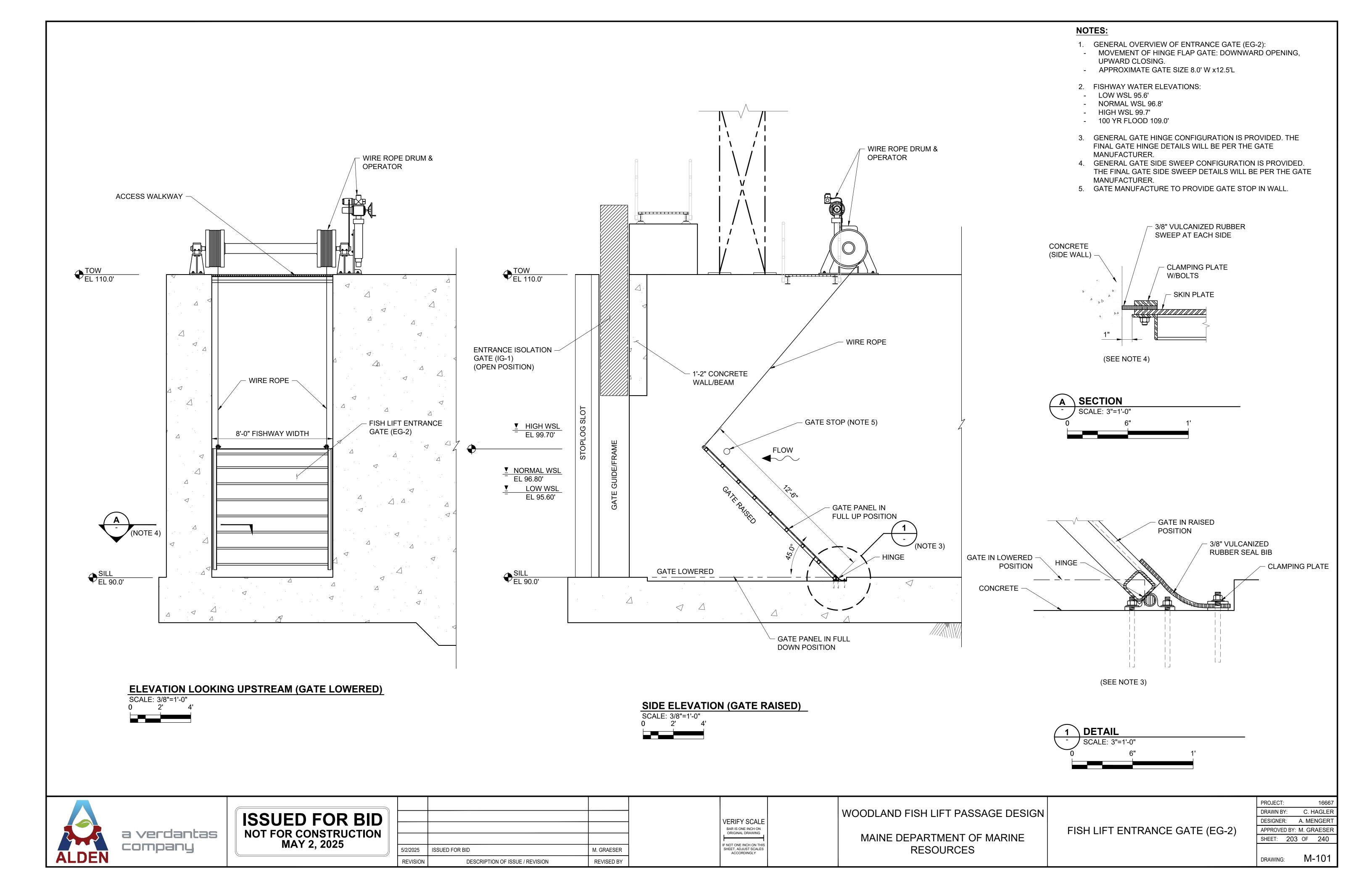
RESOURCES

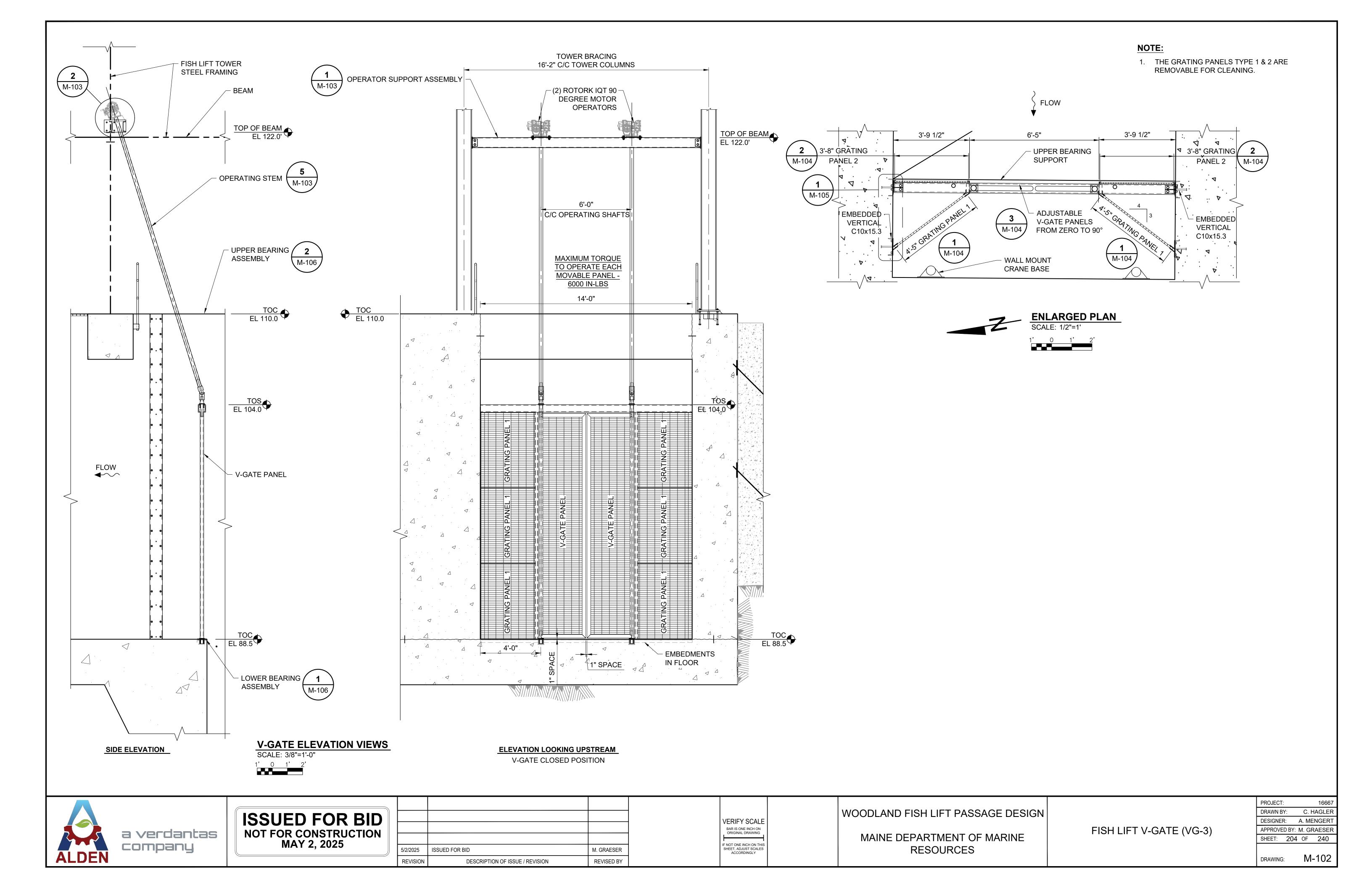
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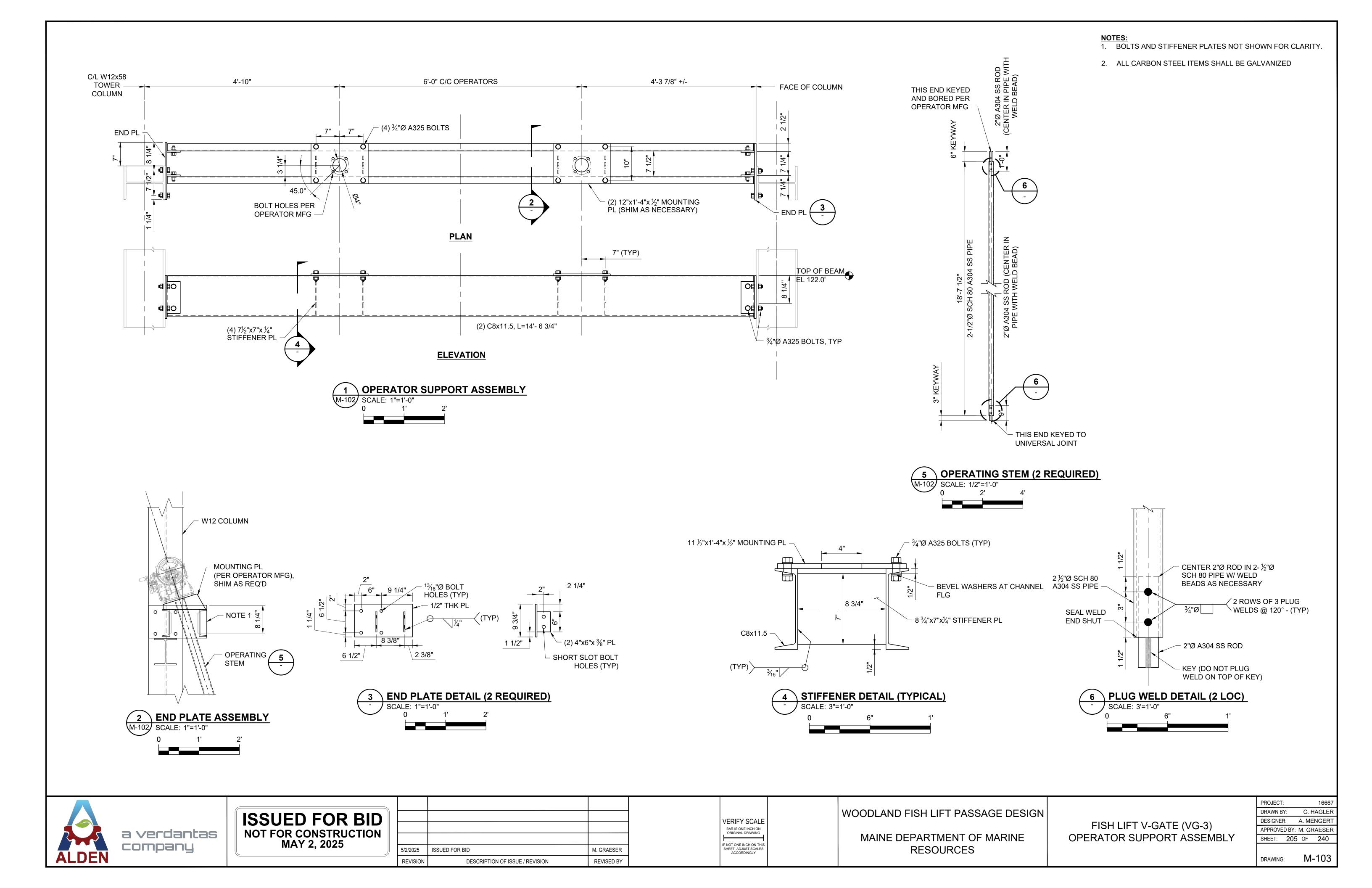
PROJECT:	16667
DRAWN BY:	C. HAGLER
DESIGNER:	A. MENGERT
APPROVED BY:	M. GRAESER
SHEET: 200	OF 240

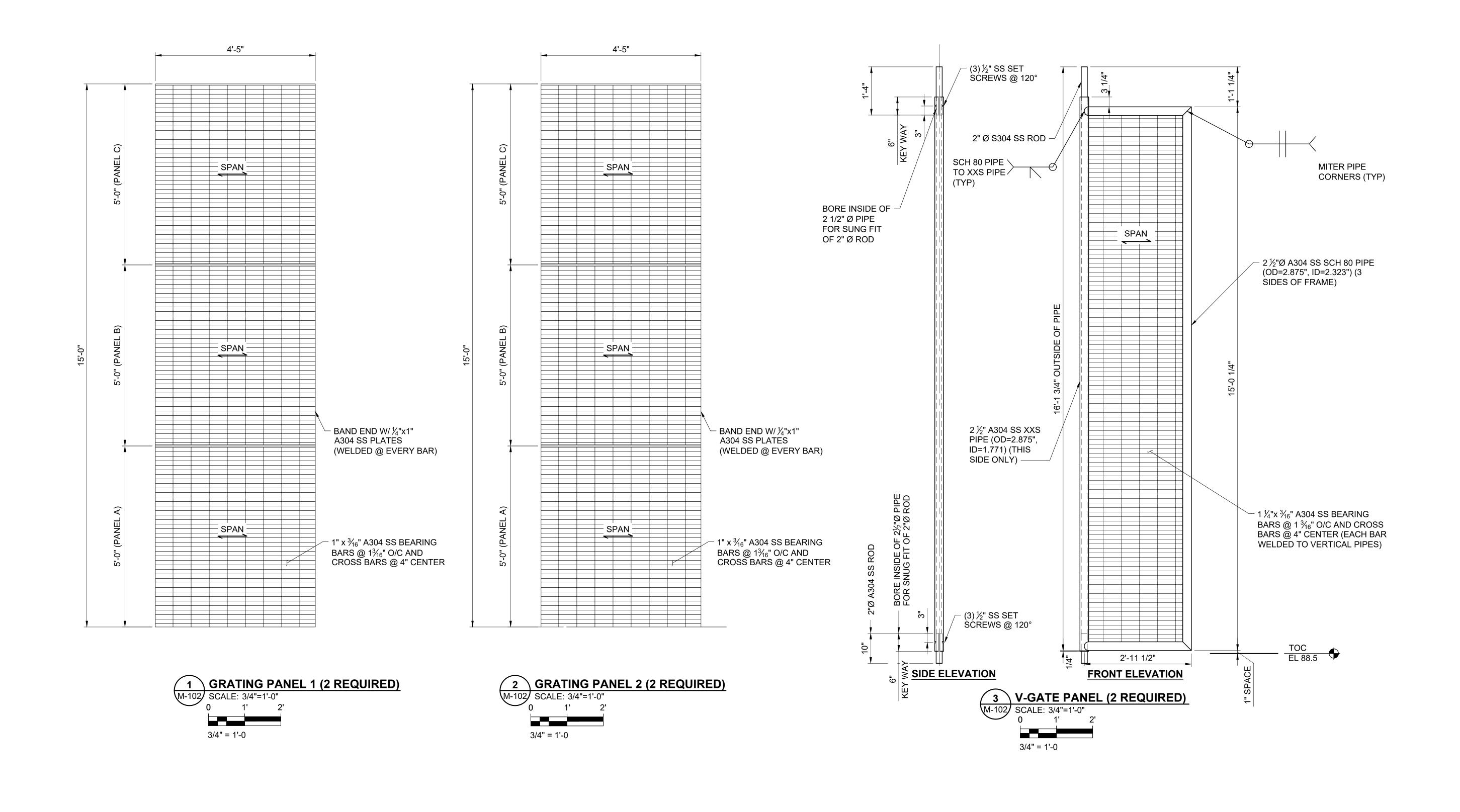














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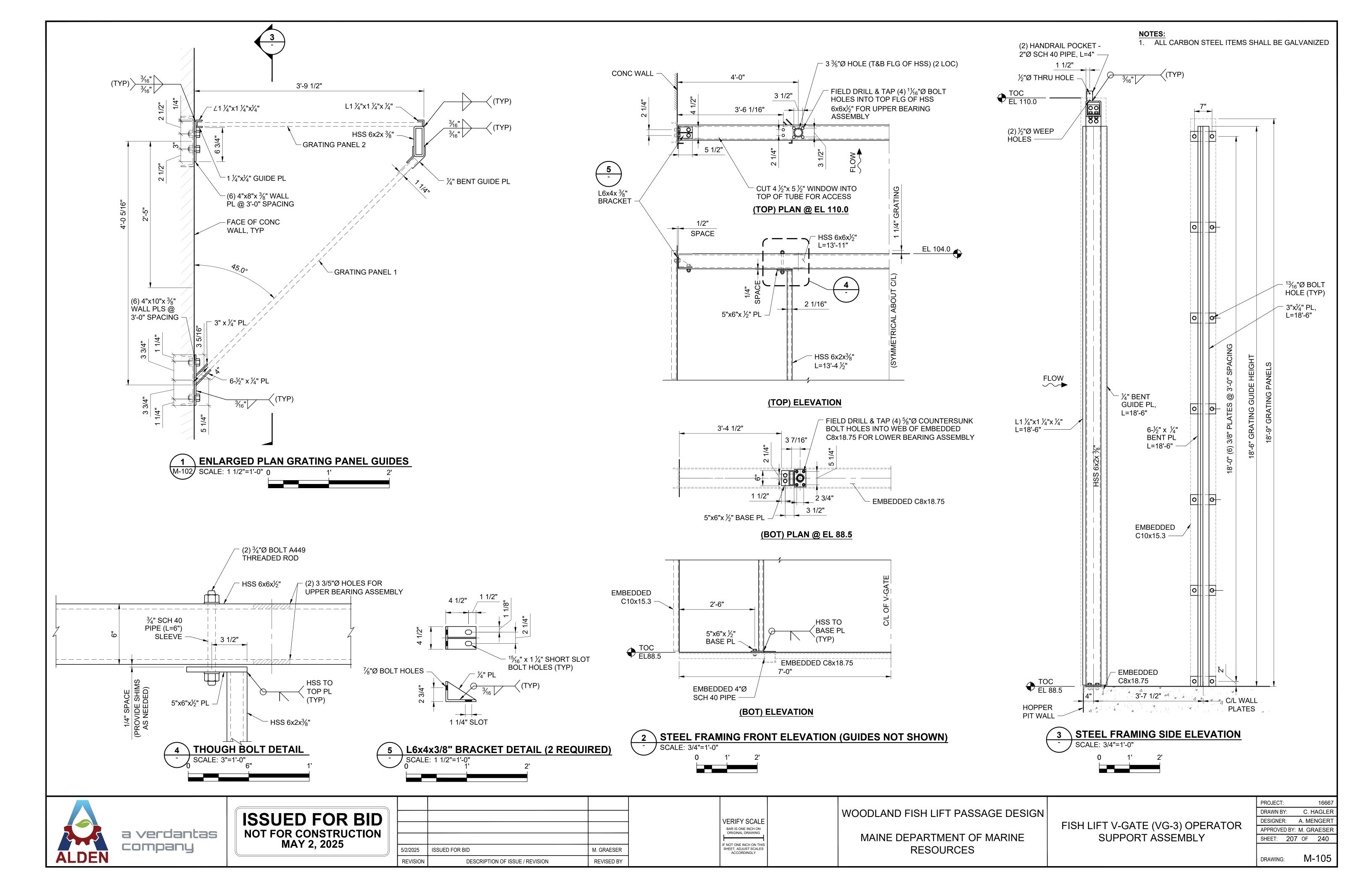
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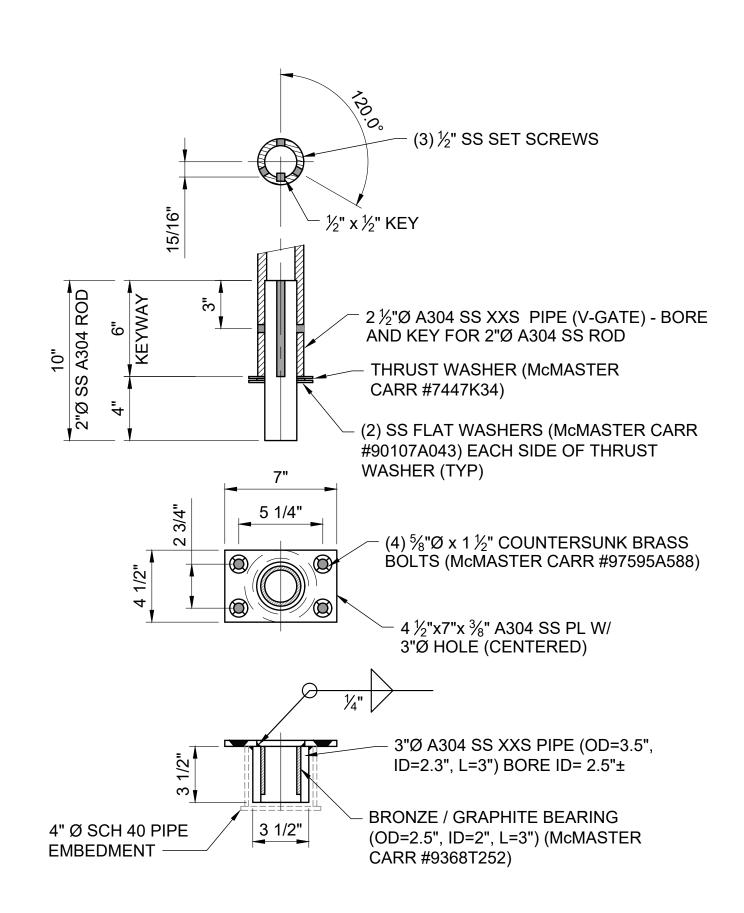
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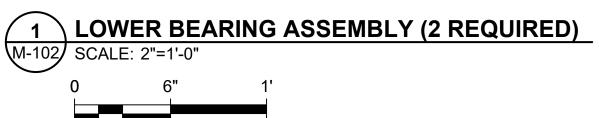
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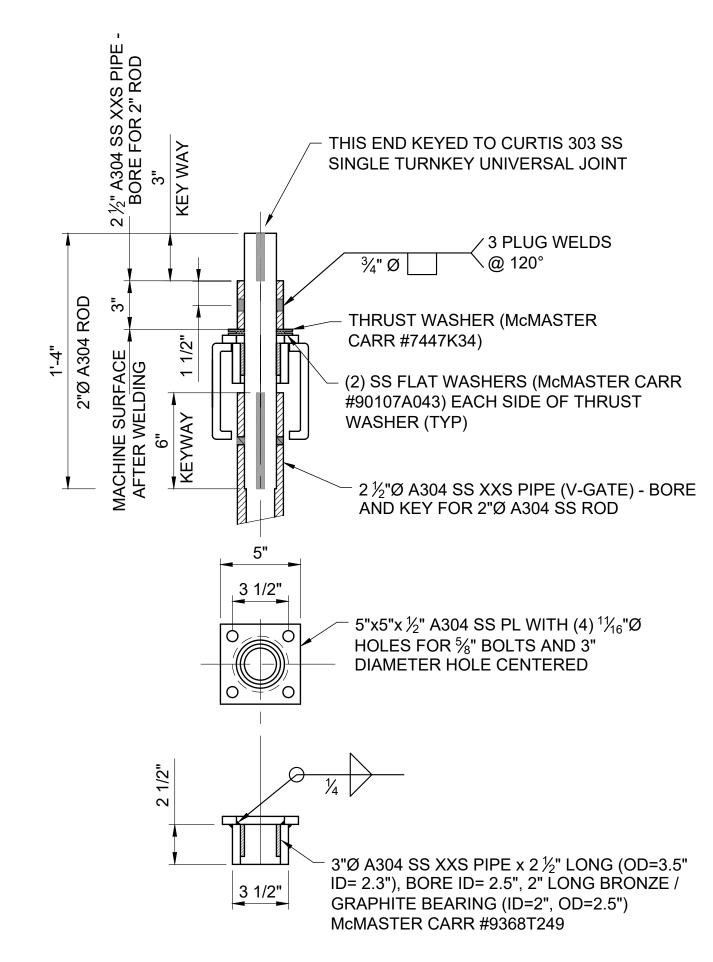
FISH LIFT V-GATE (VG-3) GRATING DETAILS

PROJECT:	16667
DRAWN BY:	C. HAGLER
DESIGNER:	A. MENGERT
APPROVED BY:	M. GRAESER
SHEET: 206	OF 240
DRAWING:	M-104



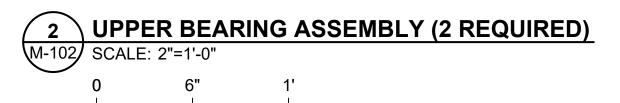






NOTE:

CLEARANCE BETWEEN PIN AND BEARING 0.005" INTERFERENCE FIT OF BEARING INTO PIPE HOUSING 0.0015".





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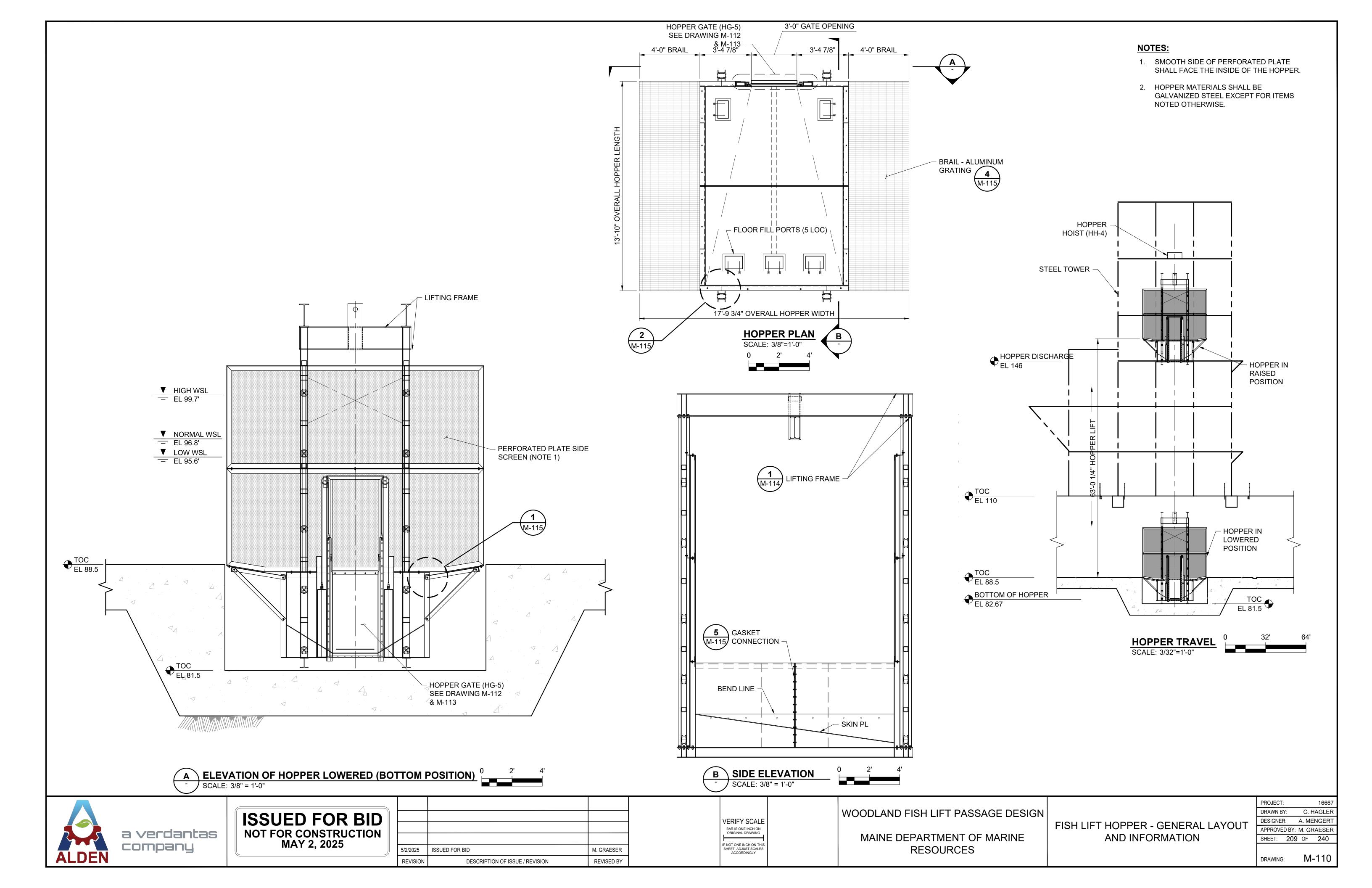
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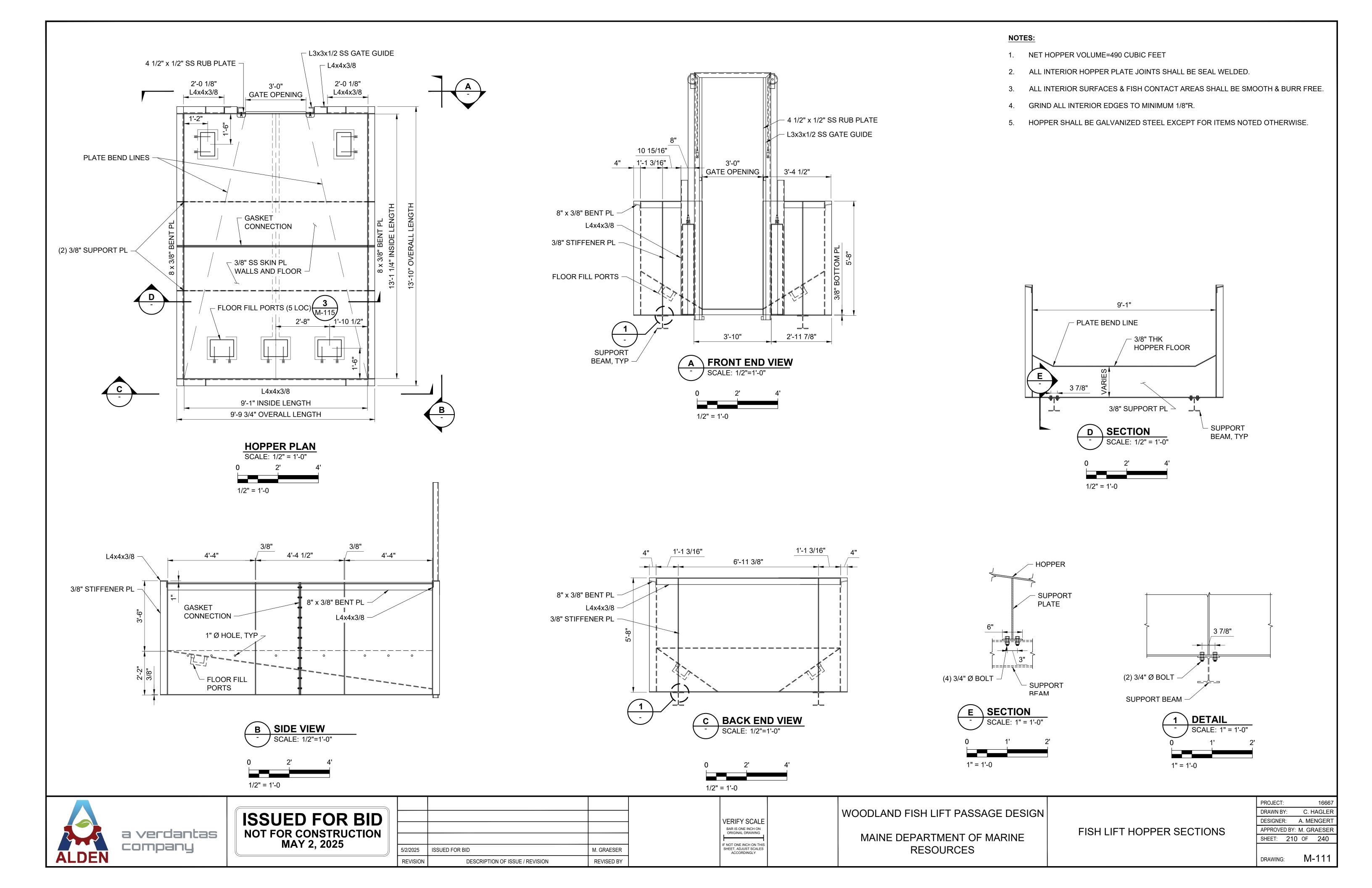
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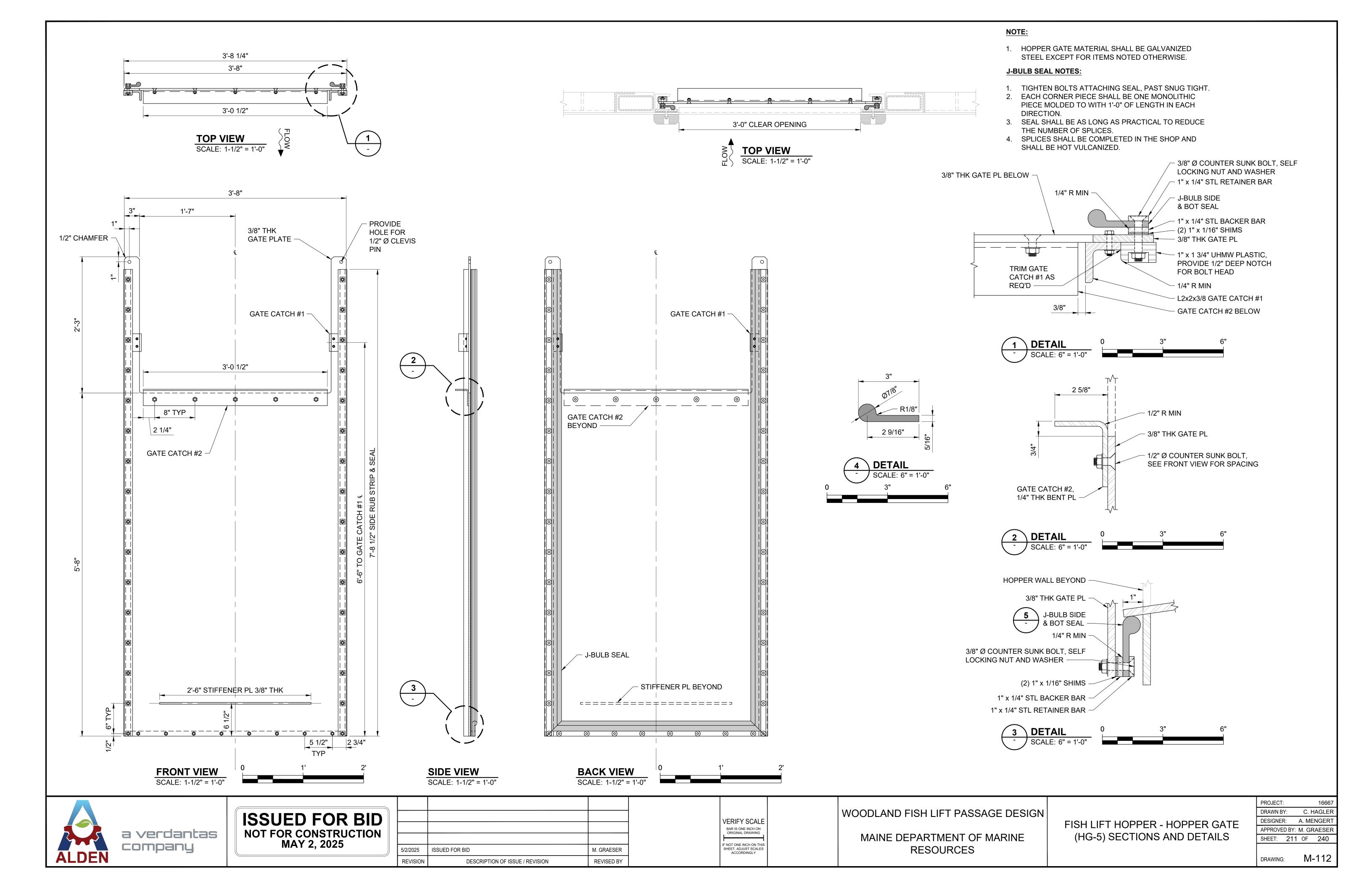
MAINE DEPARTMENT OF MARINE RESOURCES

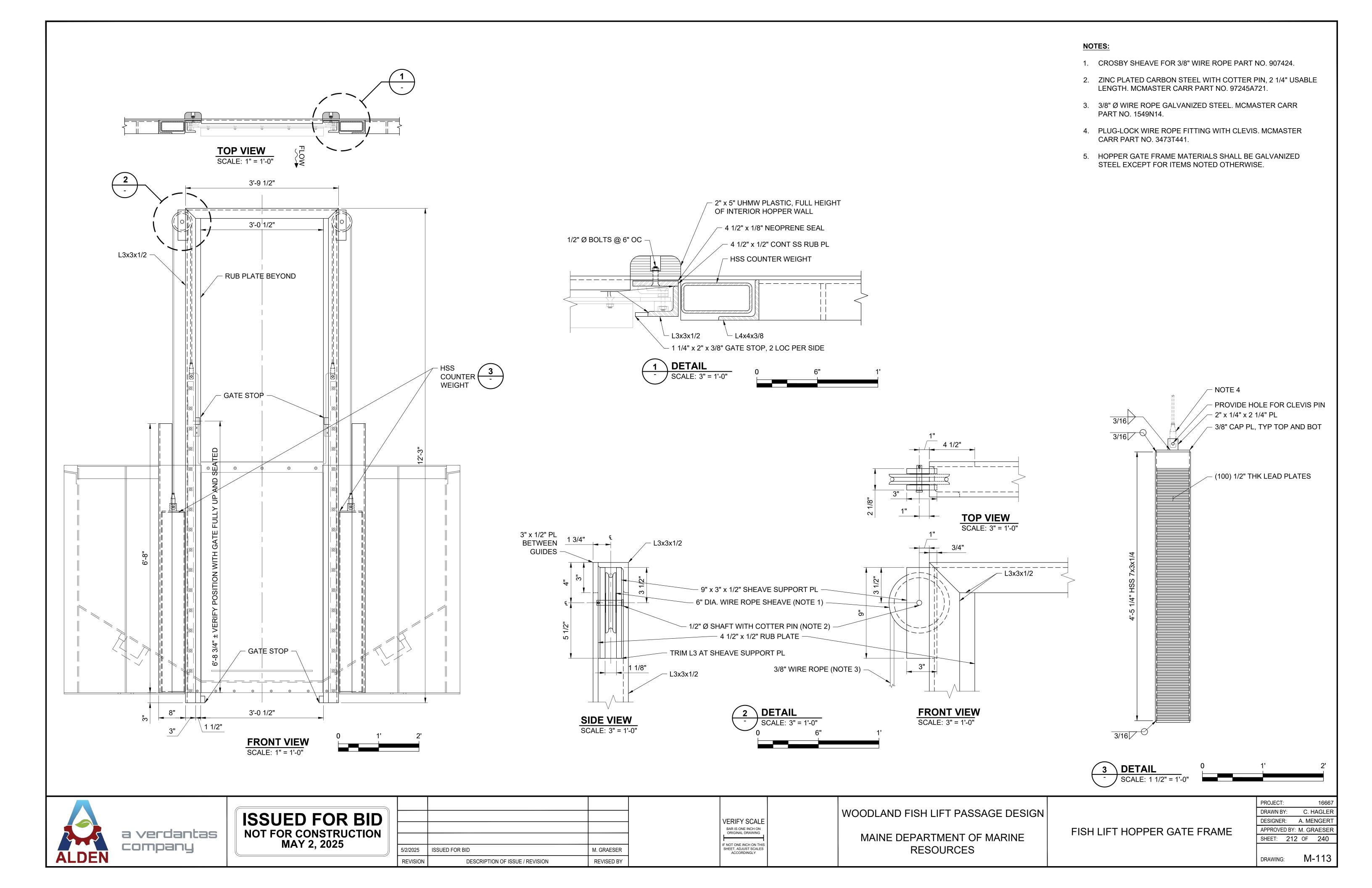
FISH LIFT V-GATE (VG-3) BEARING DETAILS

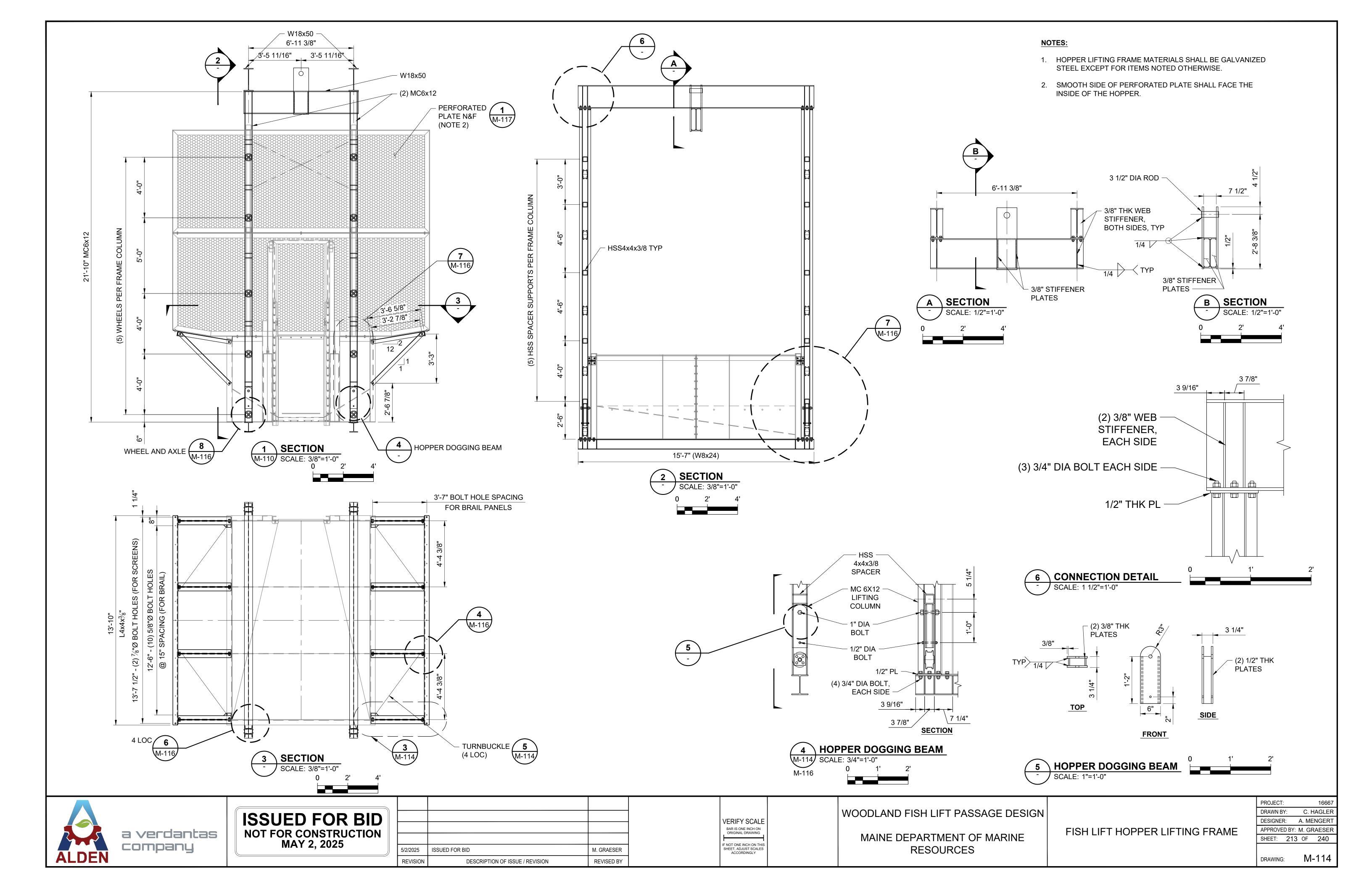
PROJECT:	16667
DRAWN BY:	C. HAGLER
DESIGNER:	A. MENGERT
APPROVED BY:	M. GRAESER
SHEET: 208	OF 240
DRAWING:	M-106

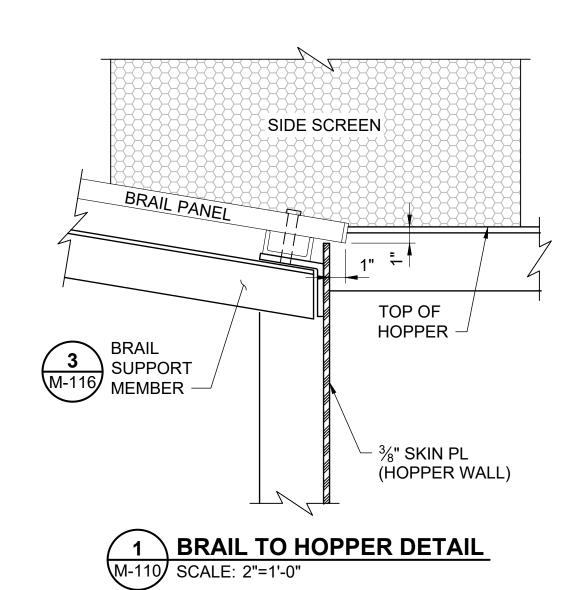


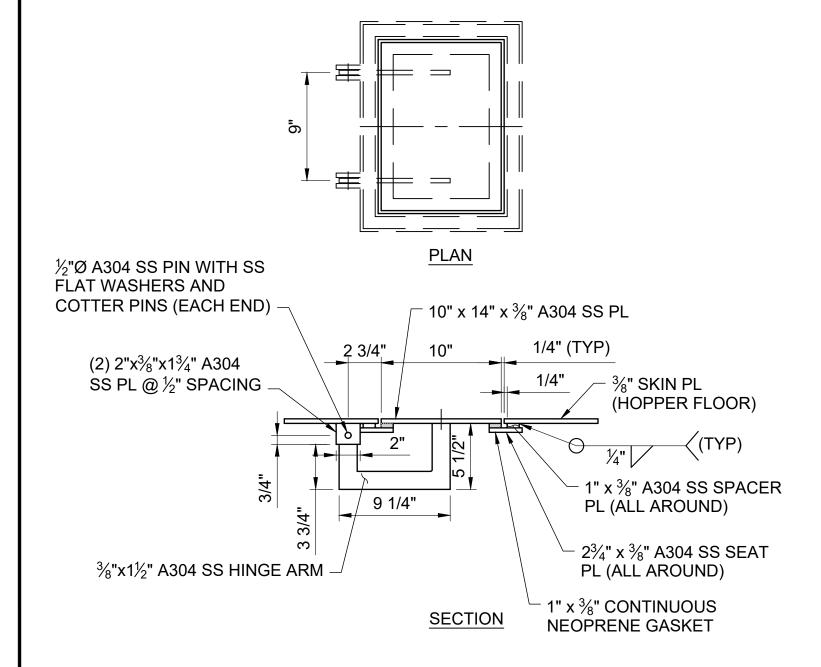




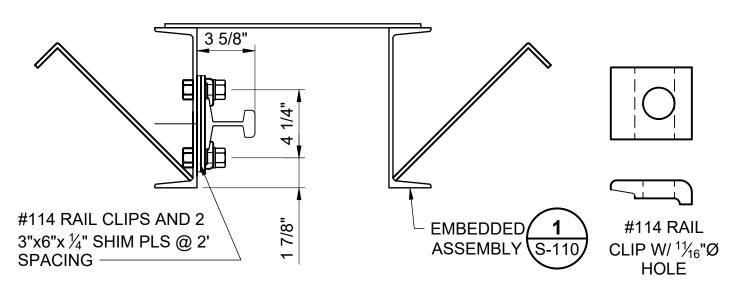




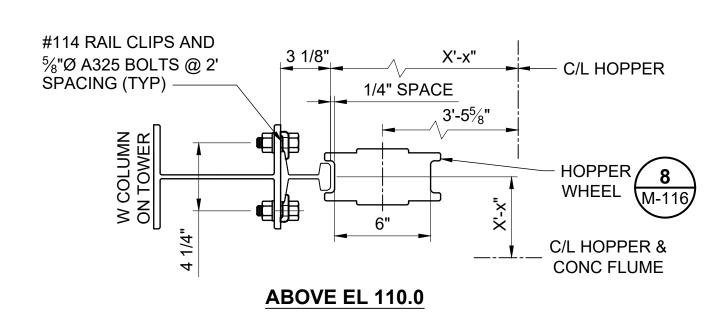




3 FLOOR FILL PORT

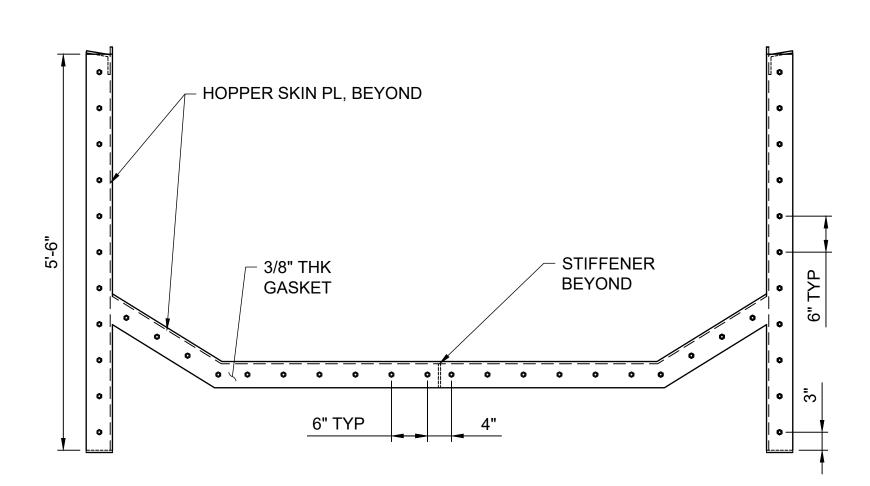


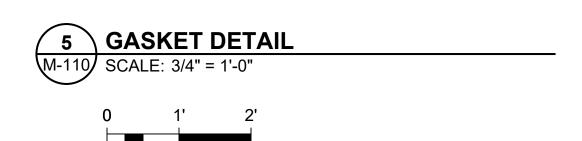
BELOW EL 110.0



ASCE 30 LB RAIL CONNECTION DETAILS

M-110 SCALE: 2" = 1'-0"

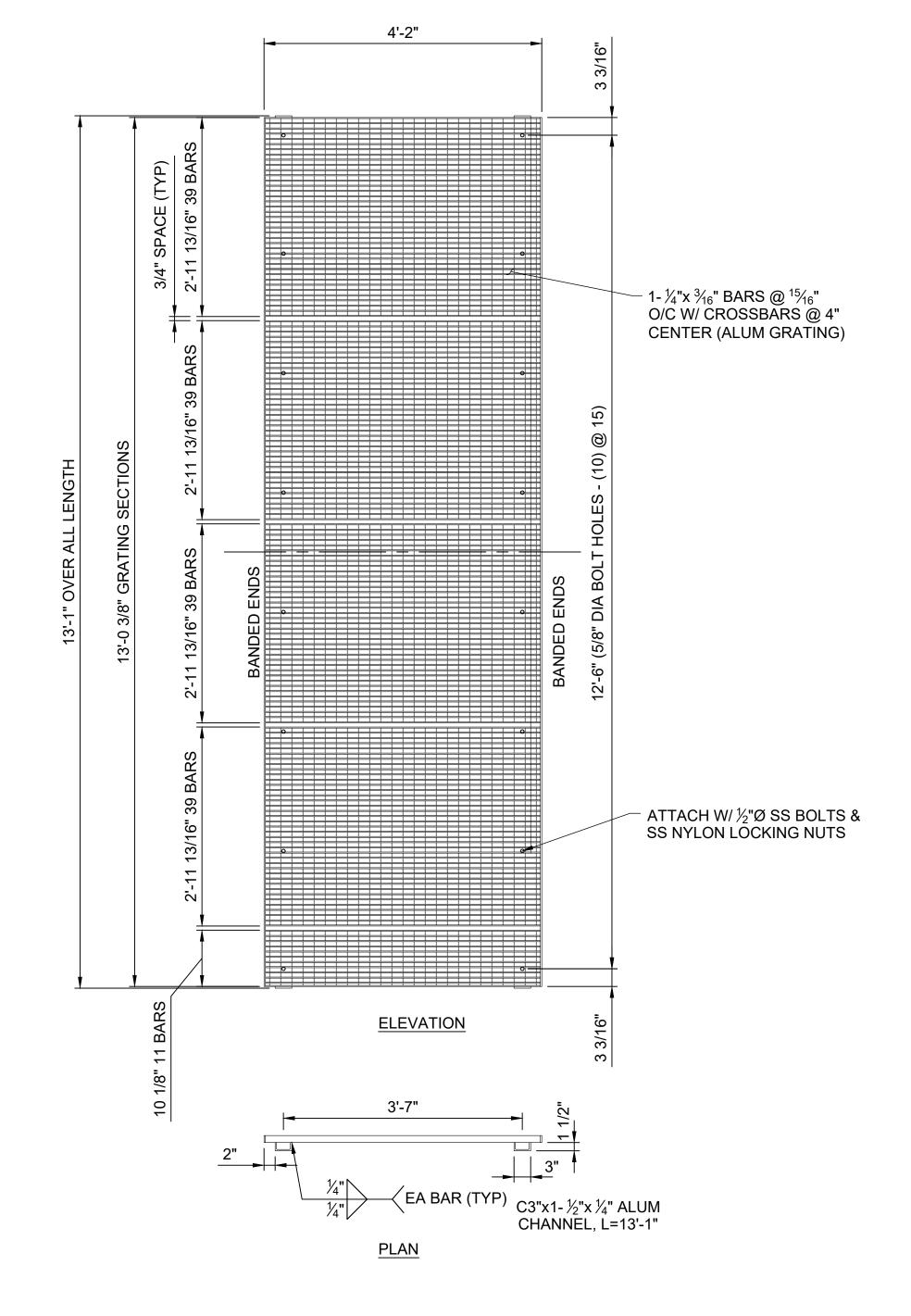


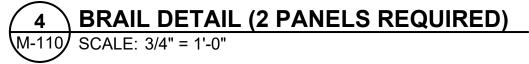


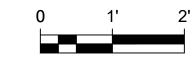
VERIFY SCALE

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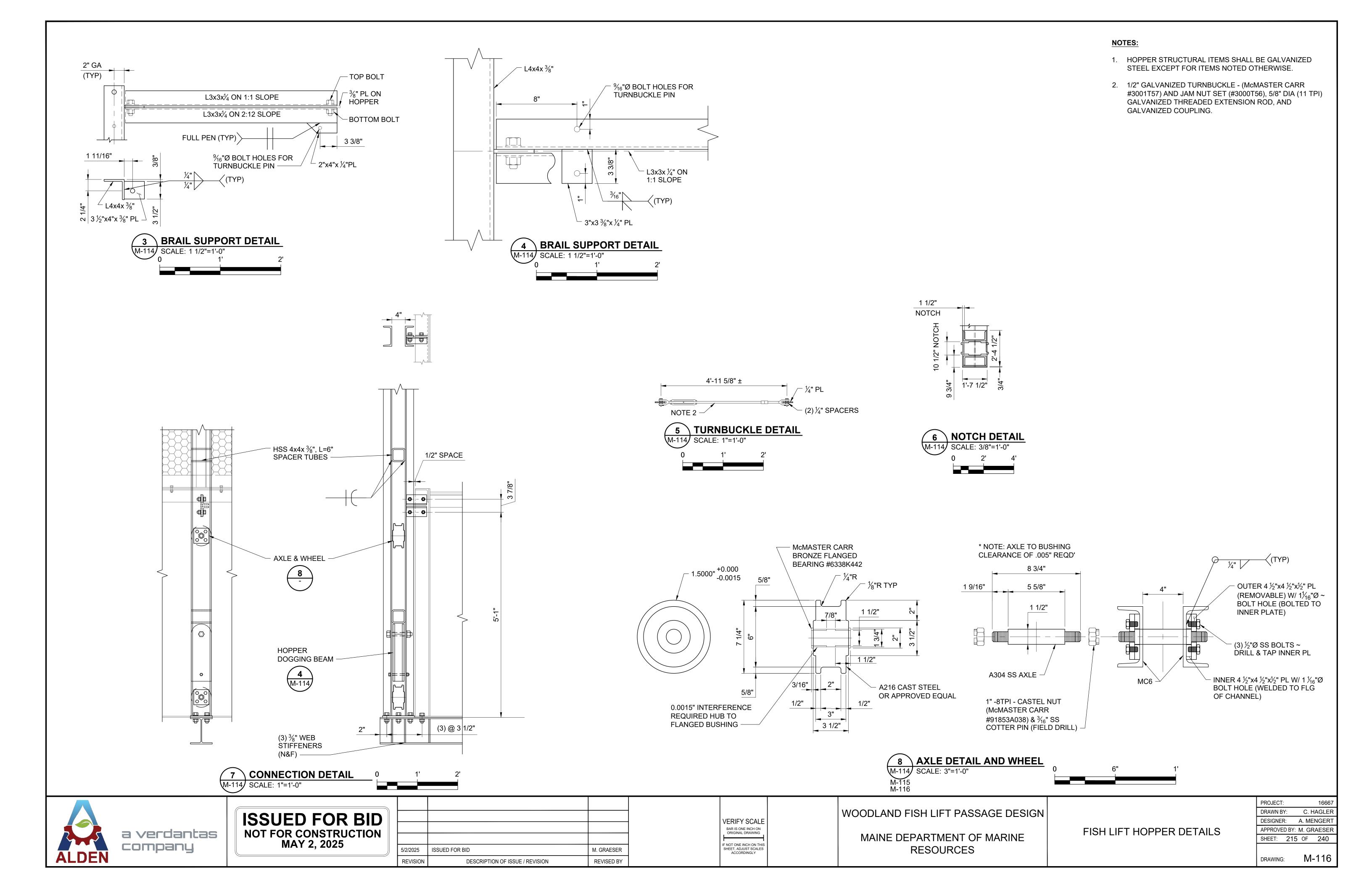
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REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY	

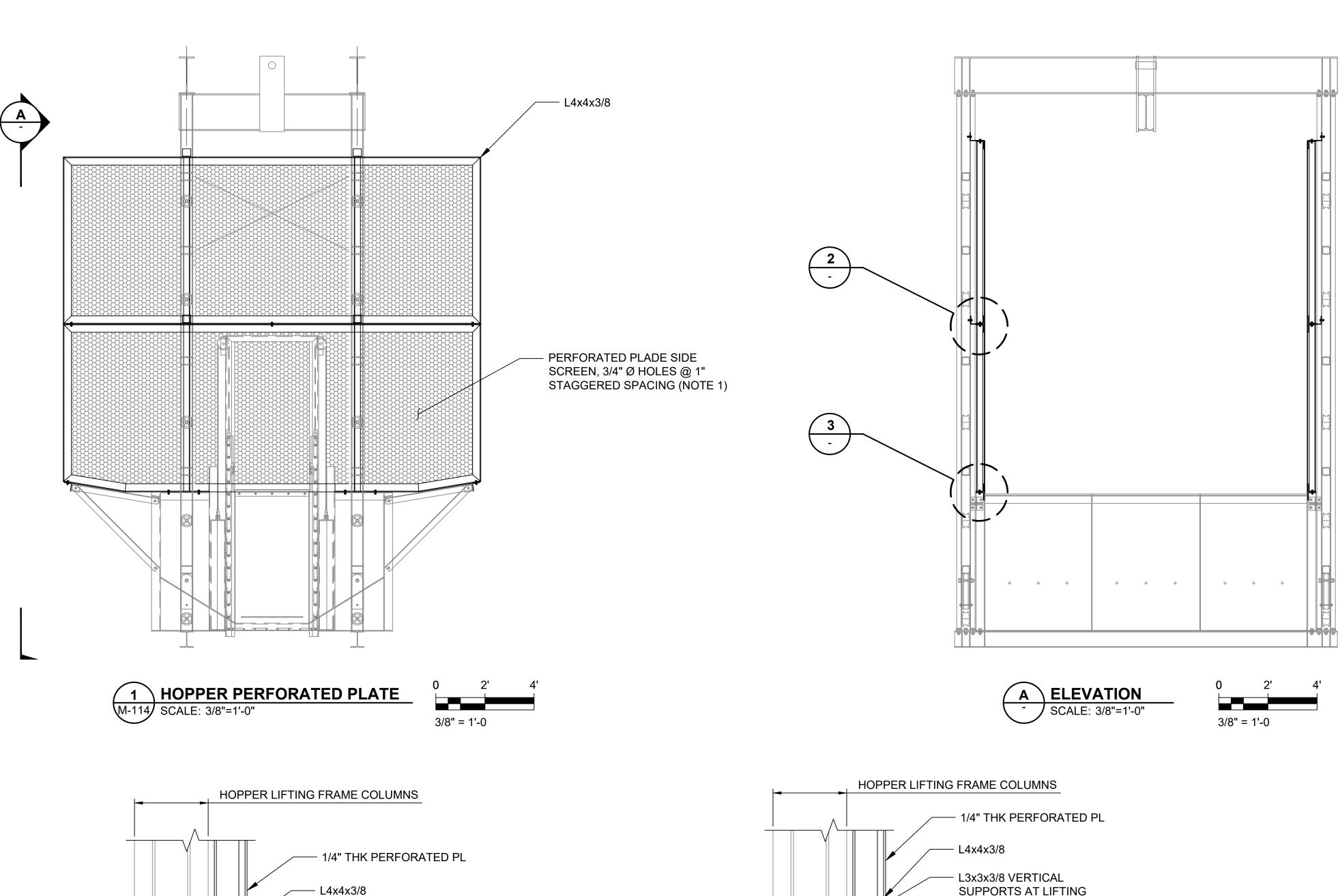
WOODLAND FISH LIFT PASSAGE DESIGN

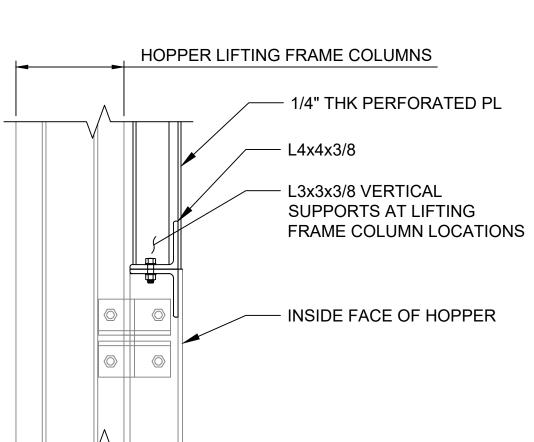
MAINE DEPARTMENT OF MARINE
RESOURCES

FISH LIFT HOPPER DETAILS

DRAWN BY: DESIGNER:	C. HAGLER A. MENGERT
APPROVED BY: SHEET: 214	M. GRAESER OF 240
DRAWING:	M-115











ALDEN	a verdantas company
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- 3/8" THK BENT CONNECTION PL

L3x3x3/8 VERTICAL
 SUPPORTS AT LIFTING

FRAME COLUMN LOCATIONS

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WOODLAND FISH LIFT PASSAGE DESIGN VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING MAINE DEPARTMENT OF MARINE IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

RESOURCES

FISH LIFT HOPPER SIDE GRATING

NOTES:

1. SMOOTH SIDE OF PERFORATED PLATE SHALL

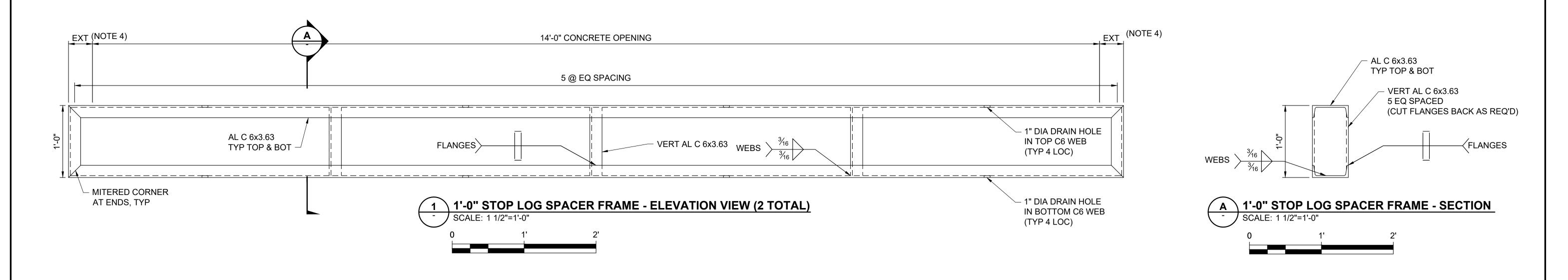
FACE THE INSIDE OF THE HOPPER.

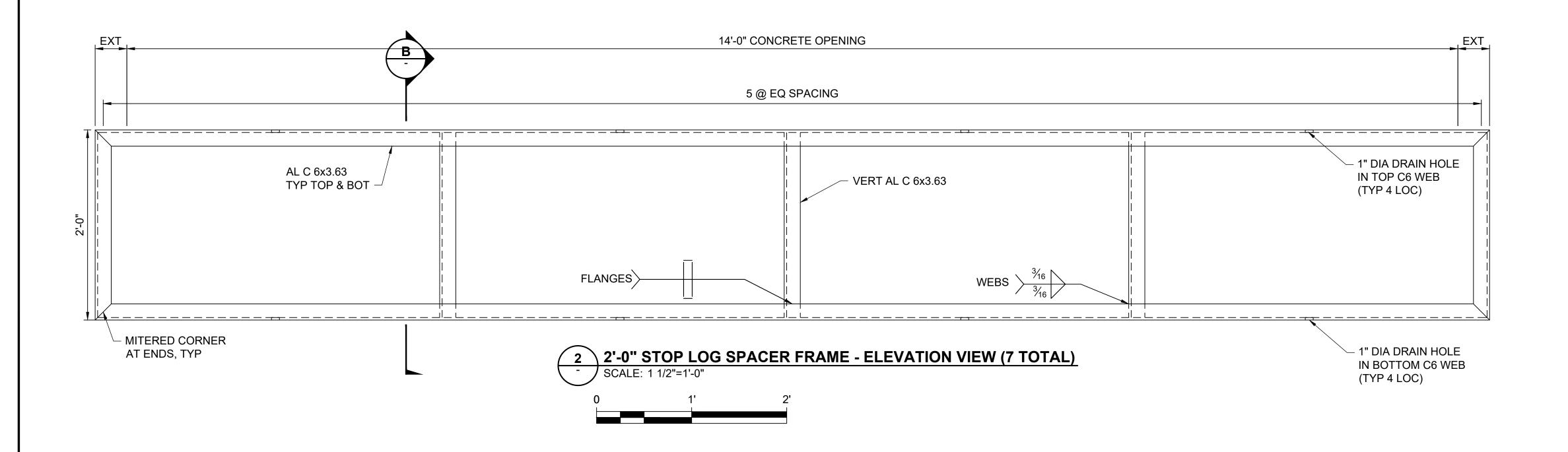
ALUMINUM NOTES:

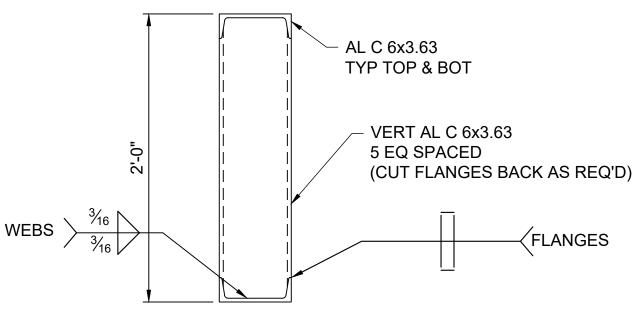
- 1. ALUMINUM SHAPES SHALL BE ALLOY TYPE 6061-T6.
- 2. ALUMINUM WELDING SHALL BE PER AWS D1.2
- 3. ALL ALUMINUM SURFACES IN CONTRACT WITH DISSIMILAR METALS AND MATERIALS HALL BE COATED IN ACCORDANCE WITH THE SPECIFICATIONS.

NOTES:

- 1. PROVIDE (2) 1'-0" SPACER FRAMES.
- PROVIDE (7) 2'-0" SPACER FRAMES.
 DESIGN ASSUMES 6" WIDE STOP LOG.
- 3. DESIGN ASSUMES 6" WIDE STOP LOG.
 PRIOR TO SPACER FRAME FABRICATION,
 COORDINATE CHANNEL DEPTH WITH STOP
 LOG MANUFACTURER.
- 4. MATCH STOP LOG SPACER FRAME LENGTH WITH STOP LOG LENGTH.
- 5. STOP LOG SPACER FAME SHALL ALUMINUM.
- 6. APPROXIMATE WEIGHT OF 1'-0" SPACER FRAME = 125 LBS.
- 7. APPROXIMATE WEIGHT OF 2'-0" SPACER FRAME = 145 LBS.







B 2'-0" STOP LOG SPACER FRAME - SECTION

SCALE: 1 1/2"=1'-0"

0 1' 2'



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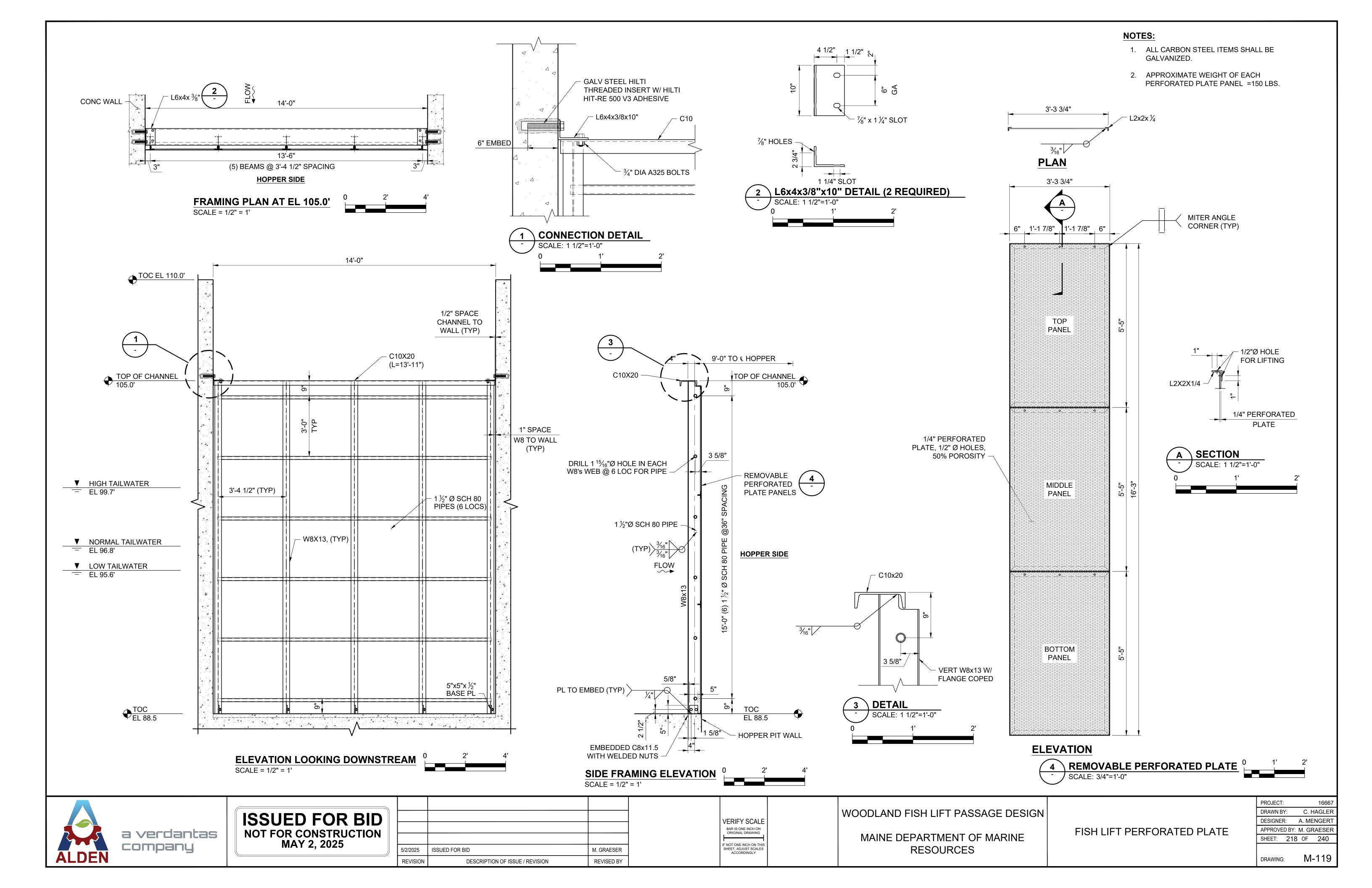
WOODLAND FISH LIFT PASSAGE DESIGN

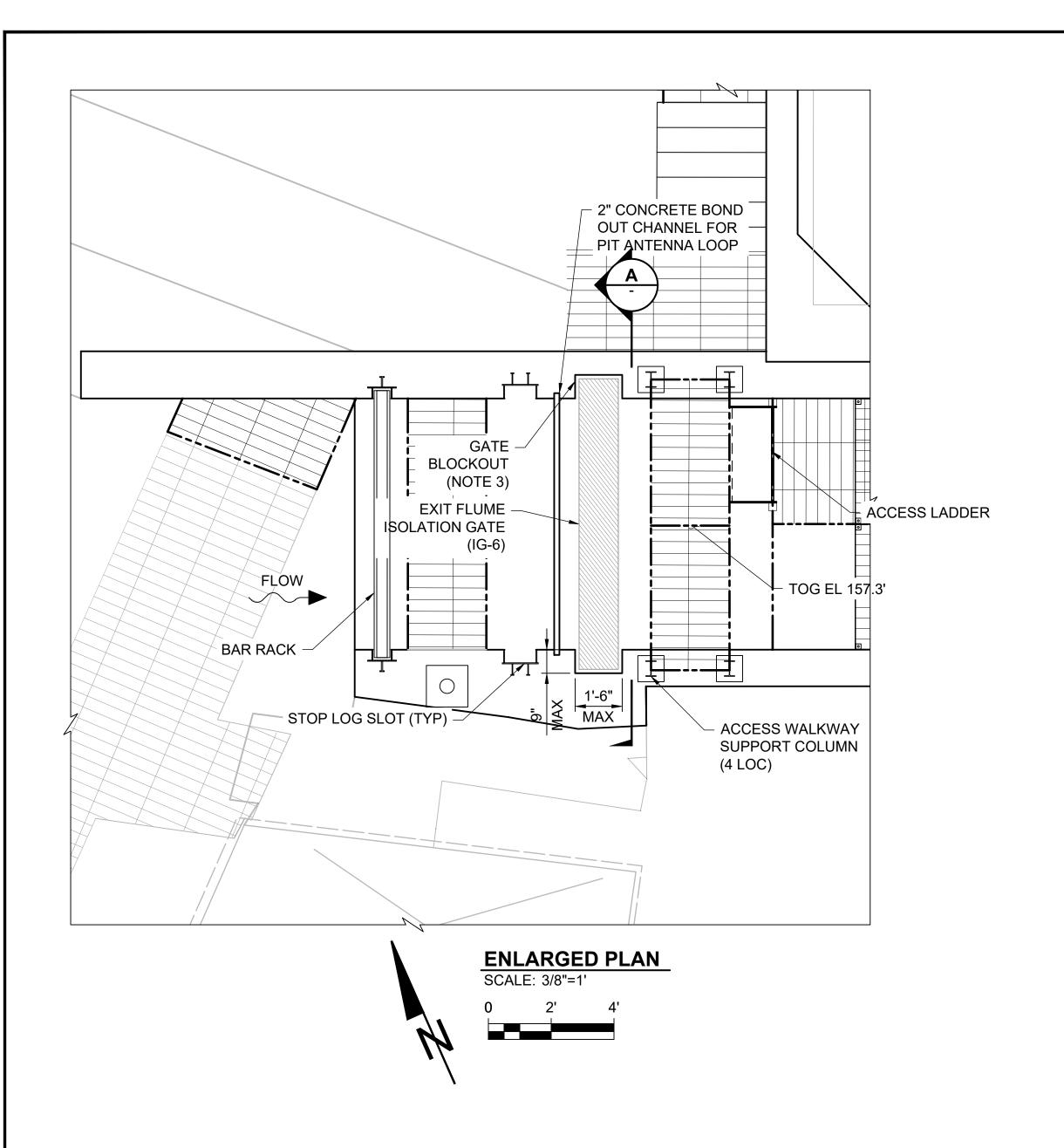
MAINE DEPARTMENT OF MARINE

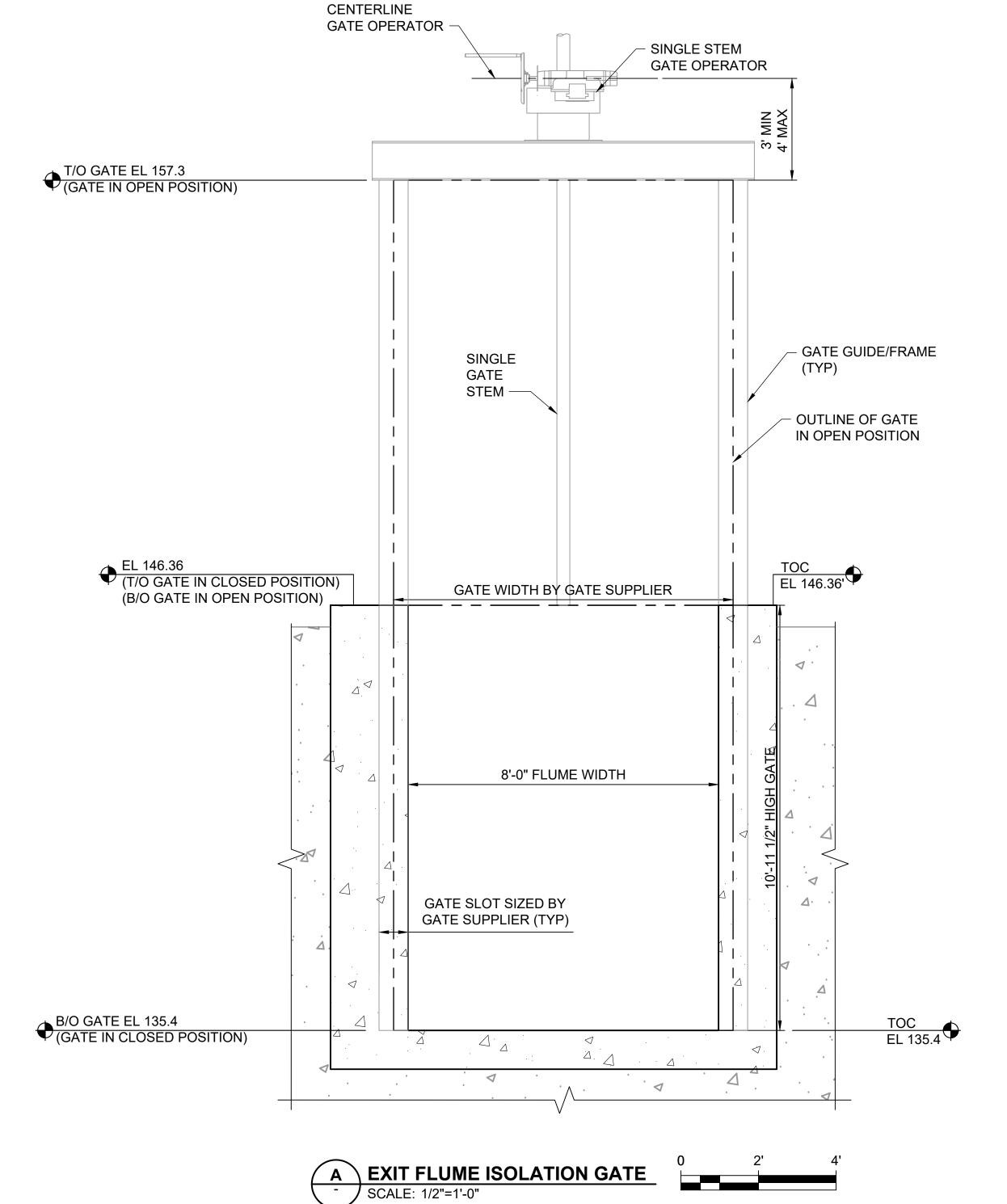
RESOURCES

STOP LOG SPACER FRAMES

PROJECT:	16667
DRAWN BY:	C. HAGLER
DESIGNER:	A. MENGERT
APPROVED BY:	M. GRAESER
SHEET: 217	7 OF 240







NOTES:

- 1. GENERAL OVERVIEW OF EXIT FLUME
- ENTRANCE ISOLATION GATE (IG-6):
- SIZE OF OPENING, 8.00'W x 10.96'HMOVEMENT OF GATE. UPWARD OPENING.
- OPERATION OF GATE: OPEN / CLOSE
- 2. HEADPOND ELEVATIONS:
- DESIGN LOW 144.0 FT
- NORMAL 144.6 FT
- DESIGN HIGH 145.4 FT
- 3. APPROXIMATE BLOCKOUT DIMENSIONS SHOWN FOR GATE IG-6. UPDATE WITH ACTUAL BLOCKOUT DIMENSIONS FOR GATE SUPPLIED.



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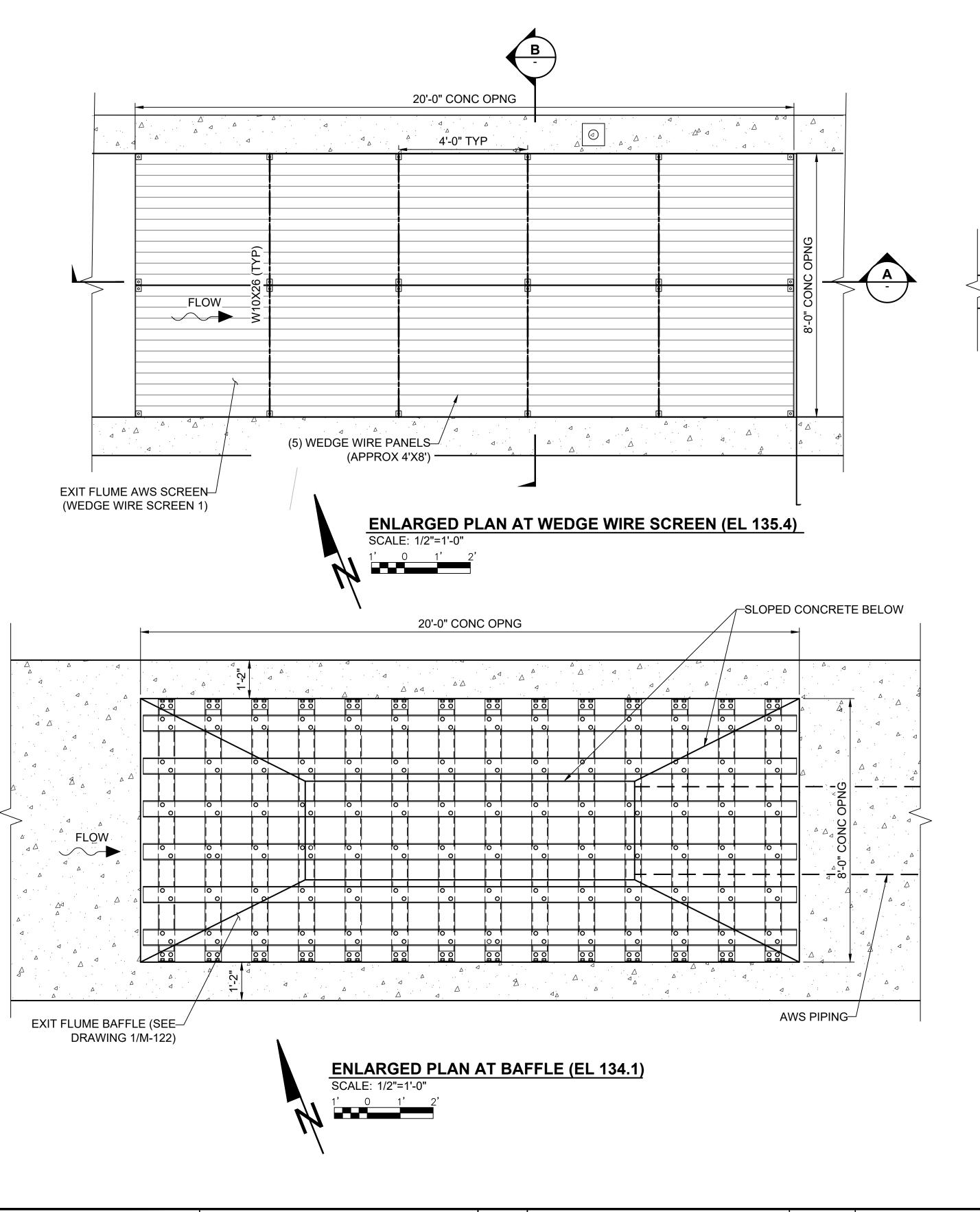
WOODLAND FISH LIFT PASSAGE DESIGN

MAINE DEPARTMENT OF MARINE

RESOURCES

EXIT FLUME ISOLATION GATE (IG-6)

PROJECT:	16667
DRAWN BY:	C. HAGLER
DESIGNER:	A. MENGERT
APPROVED BY:	M. GRAESER
SHEET: 219	OF 240
DRAWING:	M-120

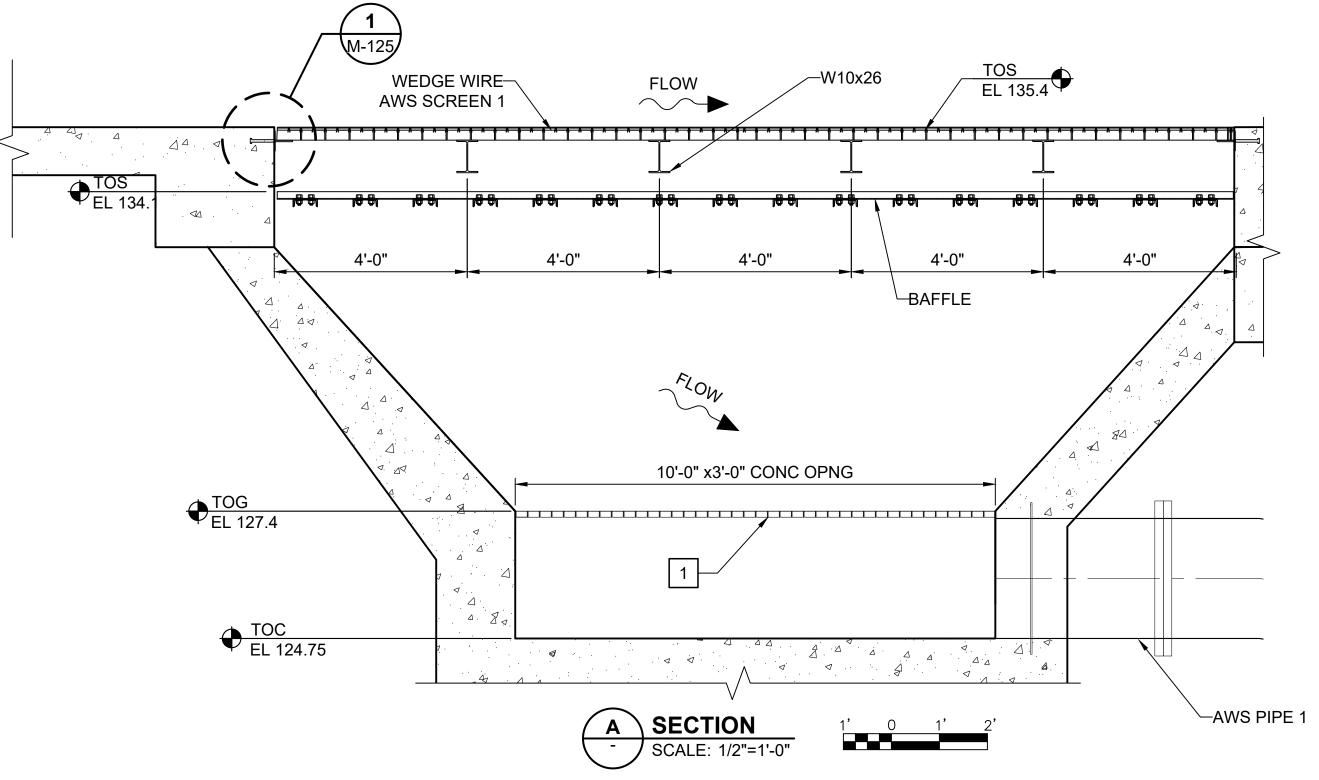


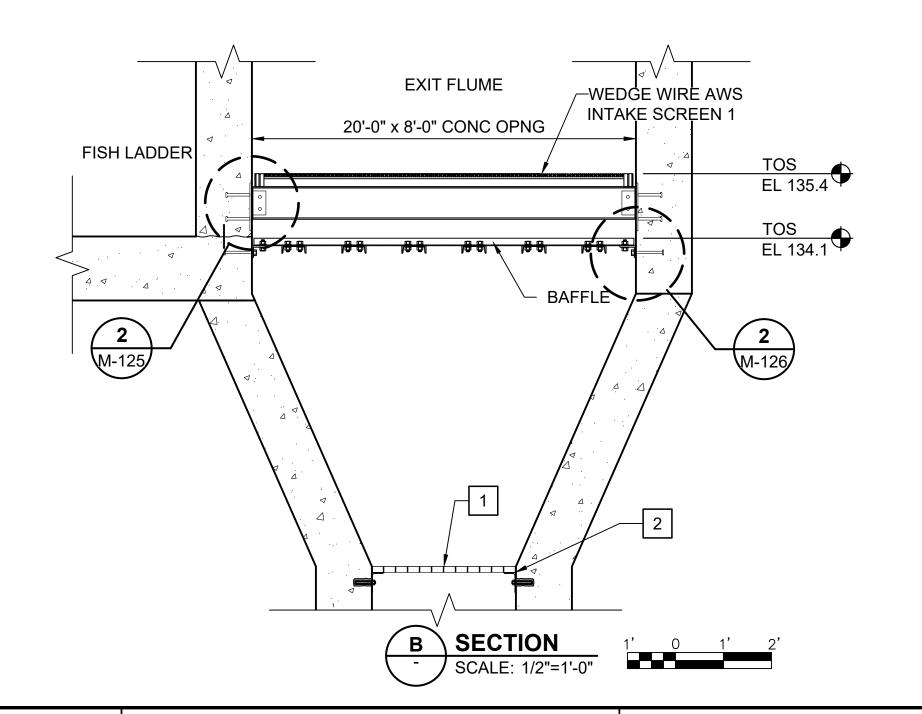
KEYED NOTES:

- 1 GALVANIZED STEEL GRATING, 1½"x¾6" BEARING
 BARS @ 1¾6" O.C. AND CROSS BARS @ 4" O.C.
 BAND ALL EDGES OF GRATING. USE SADDLE CLIPS,
 MINIMUM 4 PER PANEL.
- 2 GRATING SUPPORT TYPE 2

NOTES:

- 1. PROVIDE AIR BURST SYSTEM. SEE SPECIFICATION 35 20 13 FOR DETAILS.
- 2. WIRE ORIENTATION SHALL BE PARALLEL TO FLOW. THE SCREEN SHALL BE MOUNTED FLUSH WITH THE STRUCTURE AND NO GAPS GREATER THAN 1/4 INCH.
- 3. COORDINATE WITH MANUFACTURER FOR ANY REQUIRED SPACERS BETWEEN THE SCREENS. MANUFACTURER SHALL PROVIDE DETAIL FOR SMOOTH TRANSITION BETWEEN WEDGE WIRE SCREEN PANELS.
- 4. BAFFLES, CONNECTIONS, EMBEDS, AND BOLTS SHALL BE GALVANIZED STEEL.







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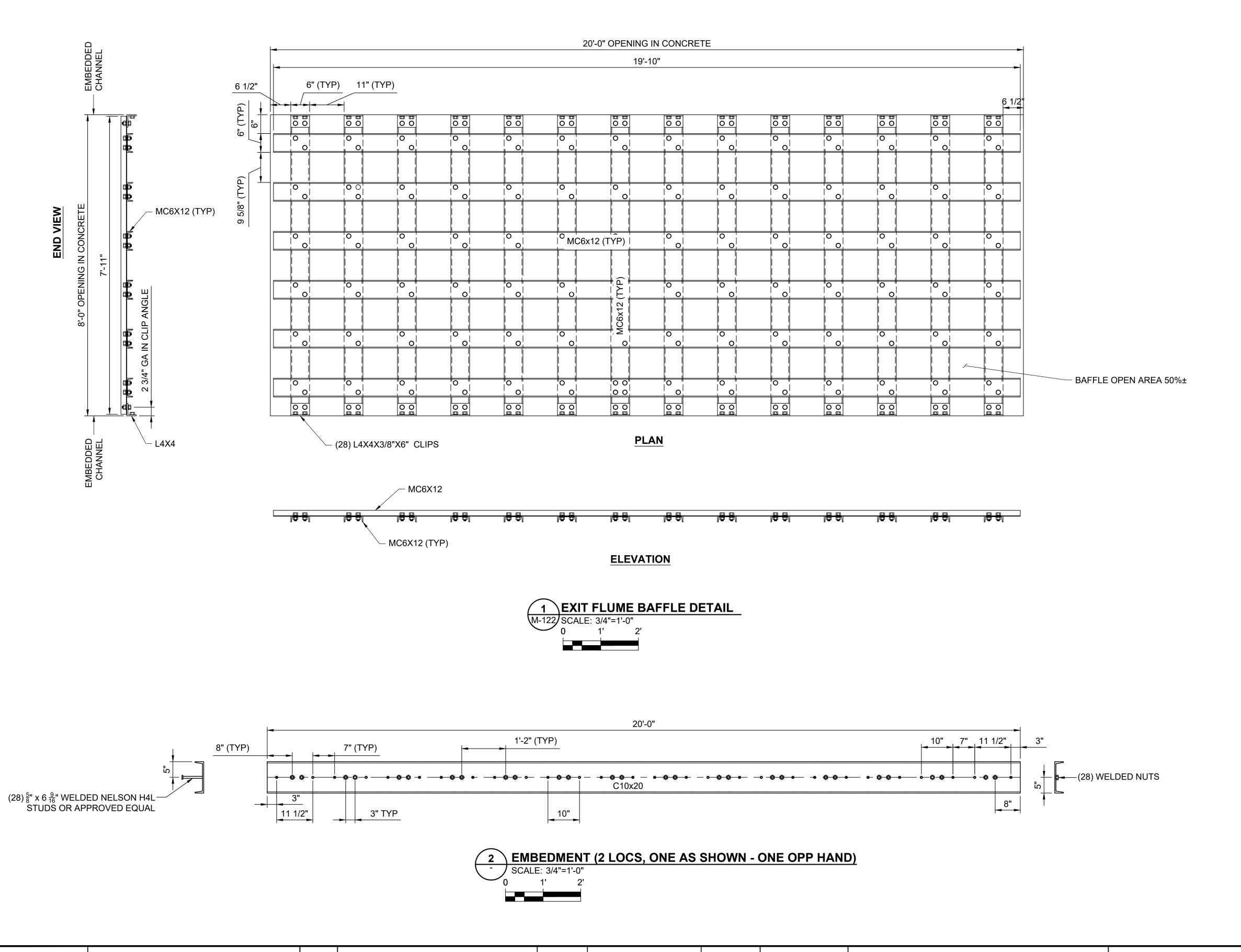
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WOODLAND FISH LIFT PASSAGE DESIGN

MAINE DEPARTMENT OF MARINE RESOURCES

EXIT FLUME AWS SCREEN AND BAFFLE

PROJECT:	16667
DRAWN BY:	C. HAGLER
DESIGNER:	A. MENGERT
	M. GRAESER
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WOODLAND FISH LIFT PASSAGE DESIGN

MAINE DEPARTMENT OF MARINE RESOURCES

EXIT FLUME BAFFLE AND EMBEDMENT

NOTE:

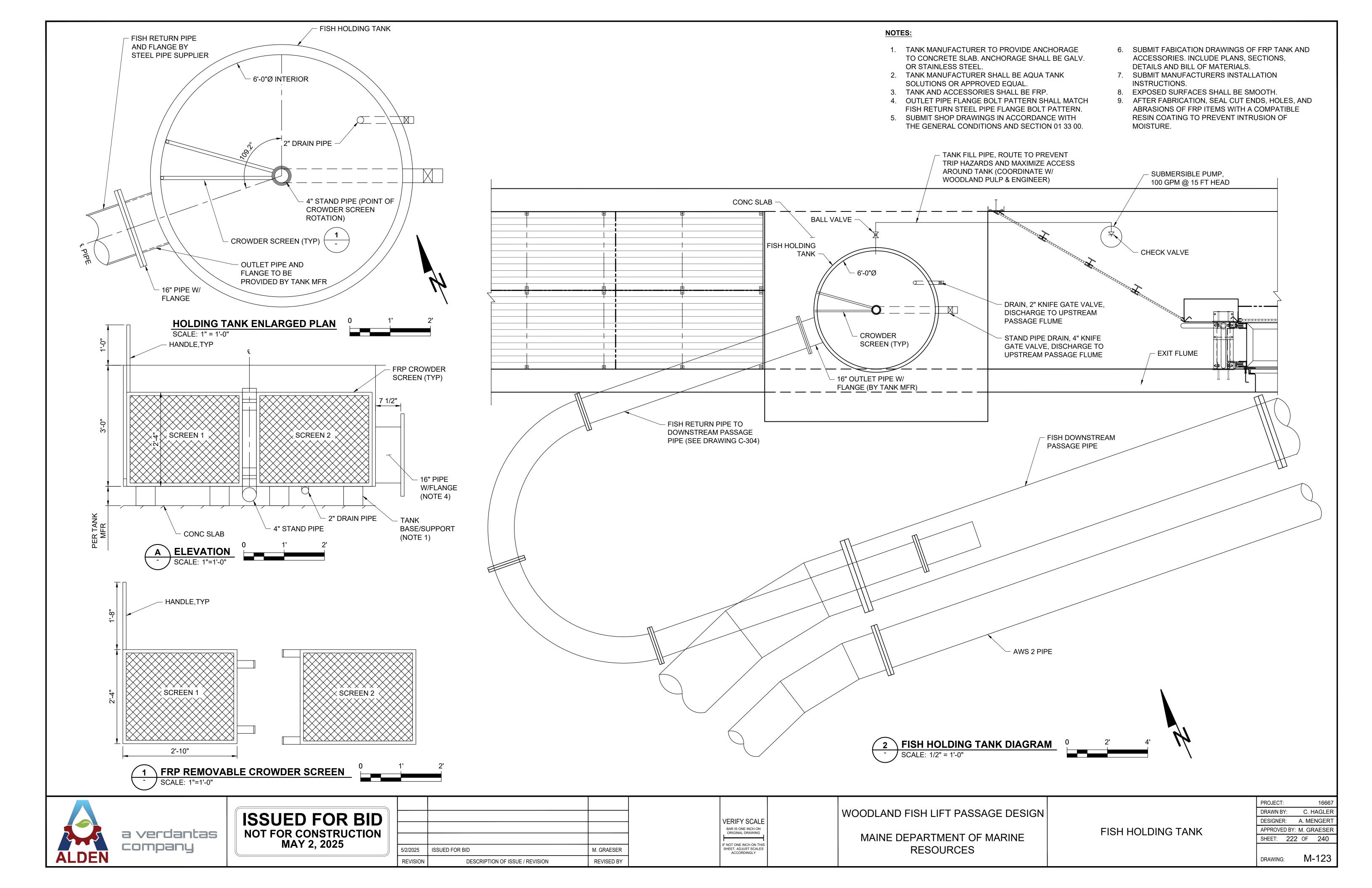
EMBEDMENT NOTE:

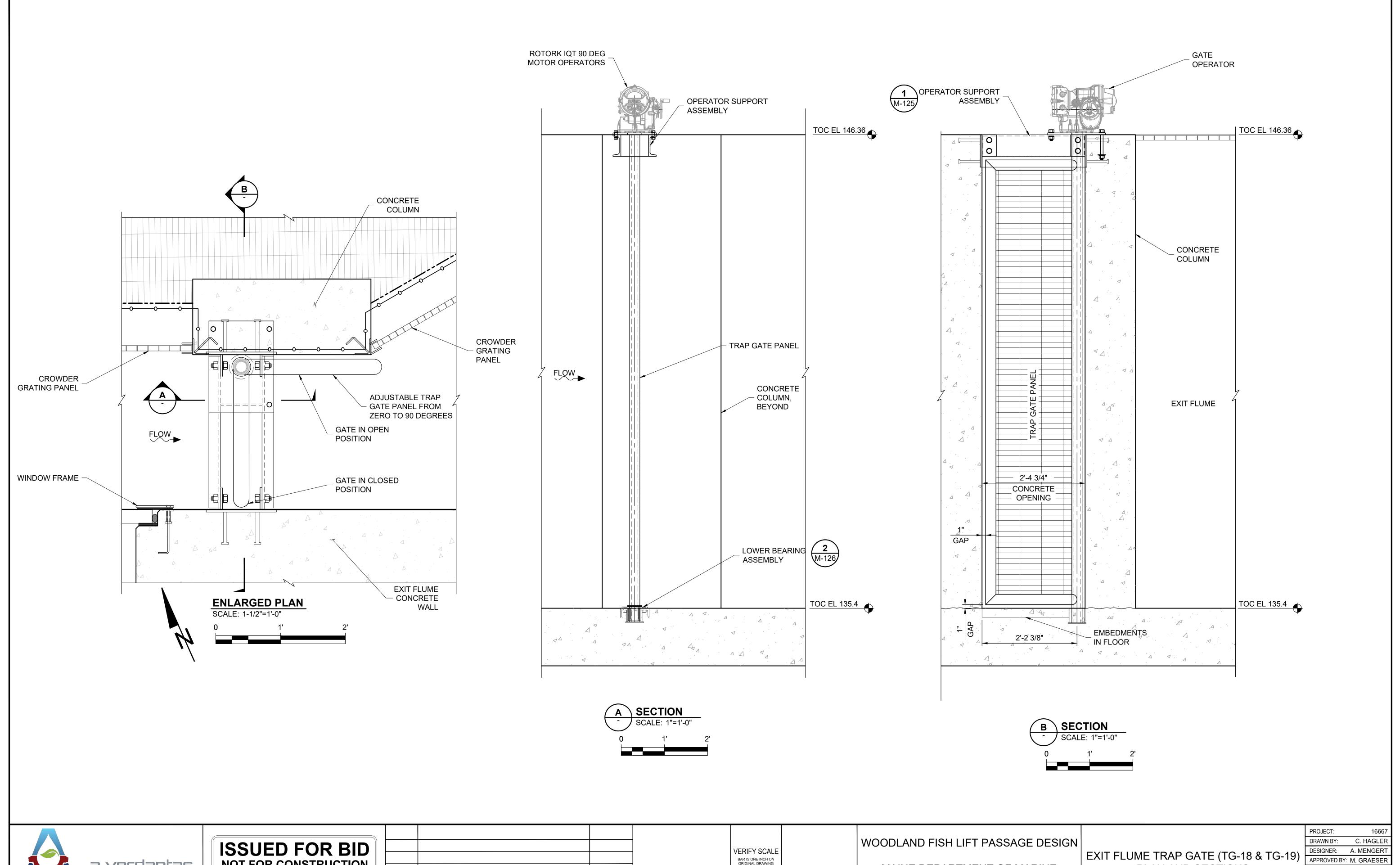
AROUND FILLET WELD.

1. BAFFLES, CONNECTIONS, EMBEDS, AND BOLTS SHALL BE GALVANIZED STEEL.

1. NUTS WELDED TO STRUCTURAL MEMBERS SHALL BE 3/4" DIAMETER, 10 TPI (UNO)-ALL

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	DRAWN BY: C. HAGLER
	DESIGNER: A. MENGERT
Т	APPROVED BY: M. GRAESER
•	SHEET: 221 OF 240







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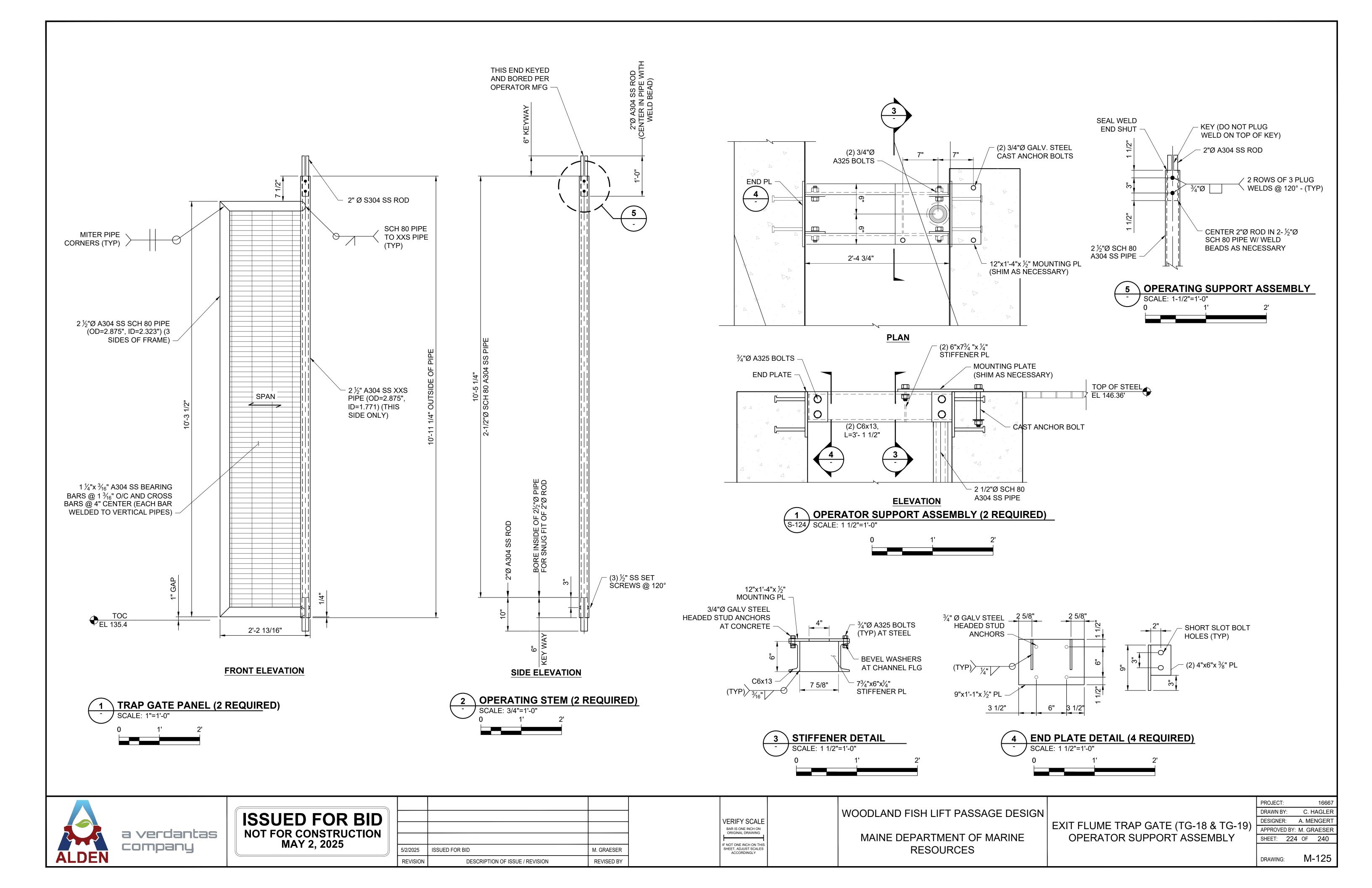
VERIFY SCALE

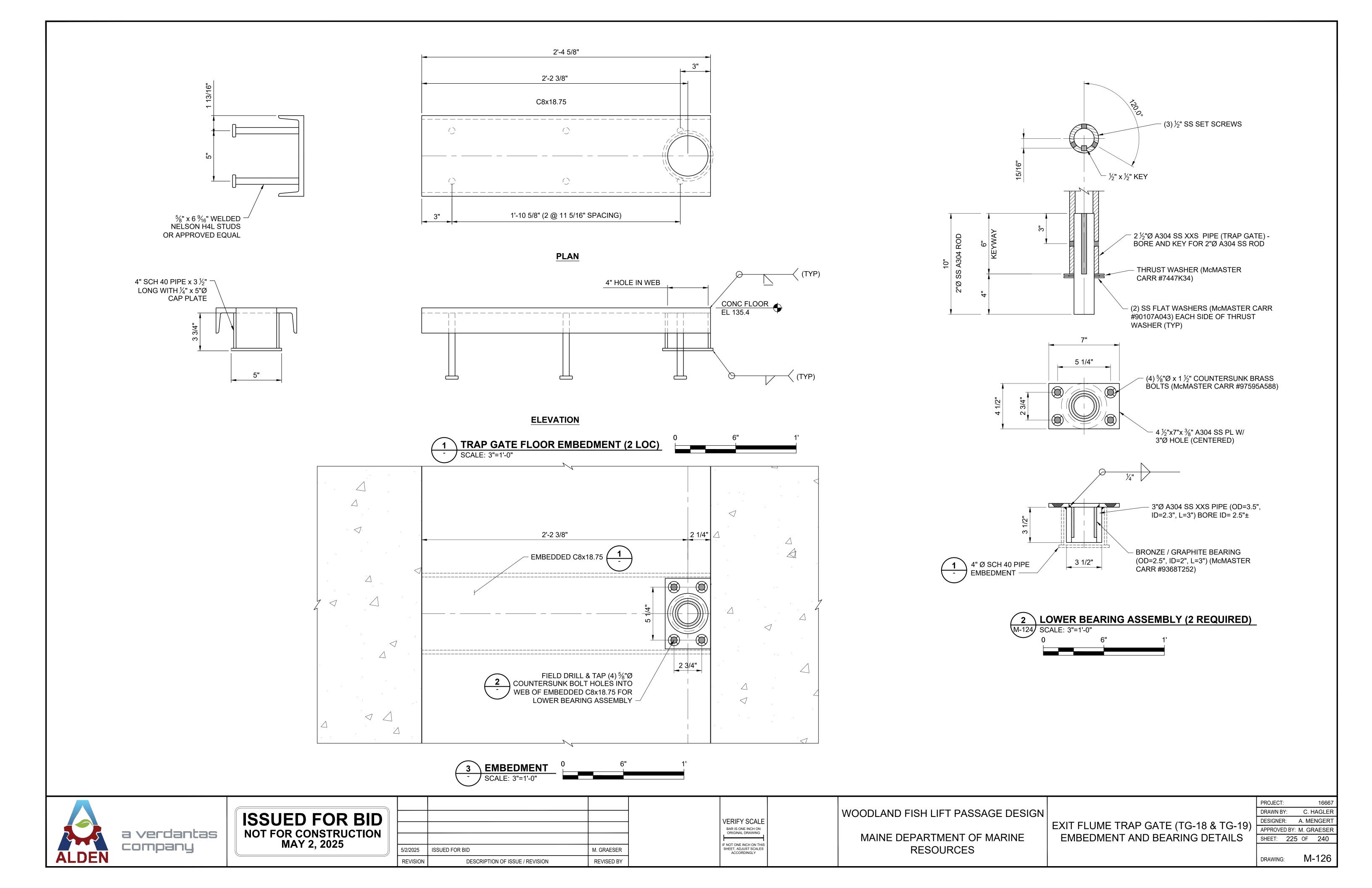
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

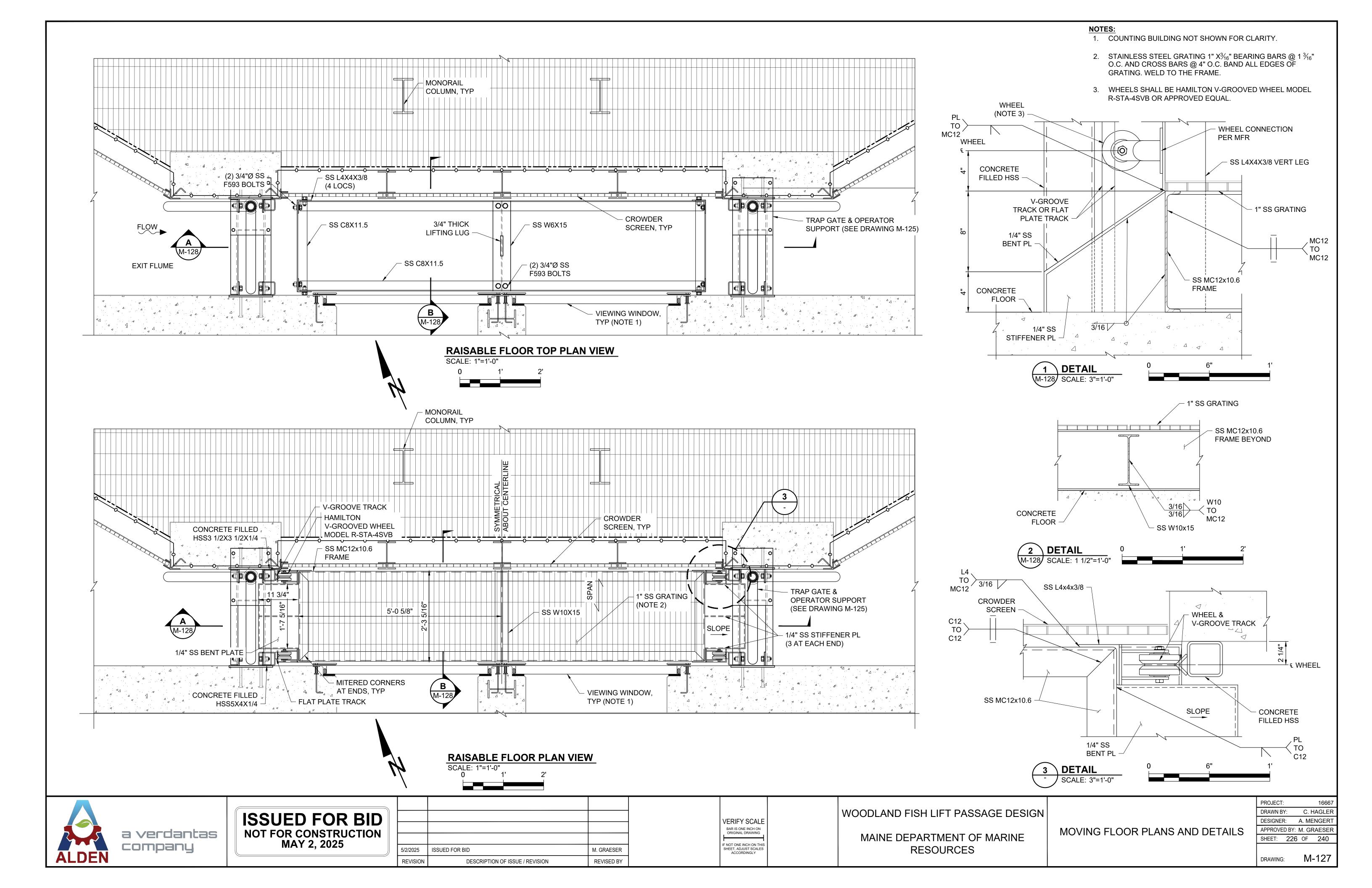
MAINE DEPARTMENT OF MARINE RESOURCES

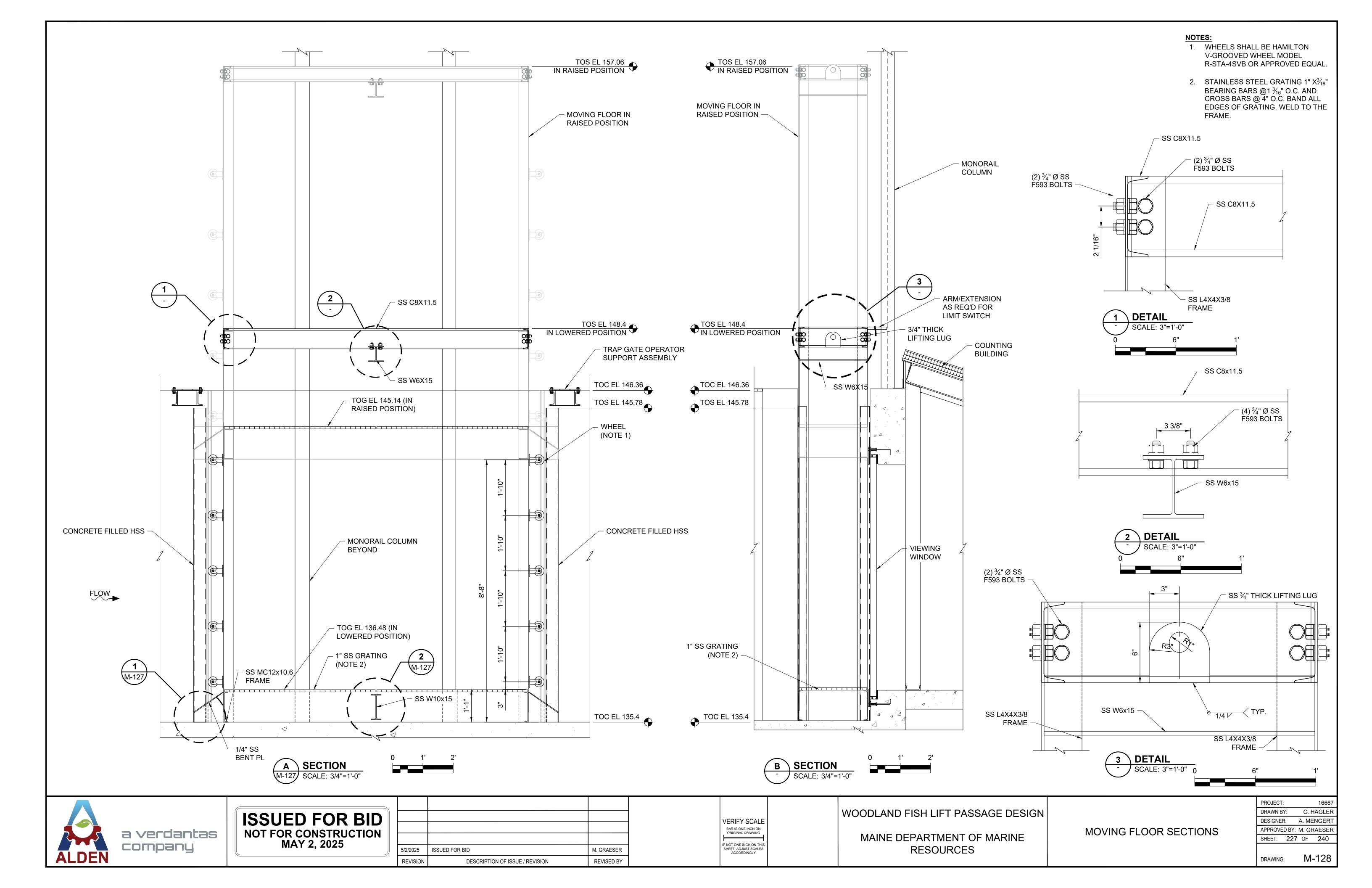
PLAN AND SECTIONS

DESIGNER: A. MENGERT
APPROVED BY: M. GRAESER SHEET: 223 OF 240 M-124 DRAWING:

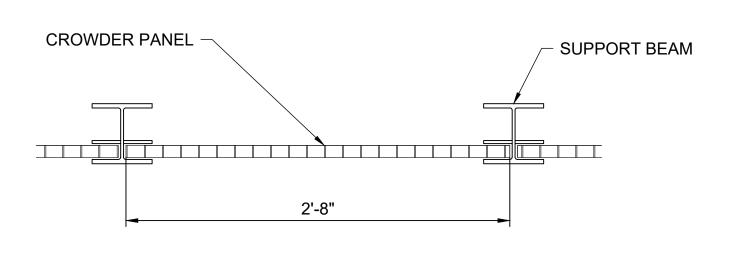






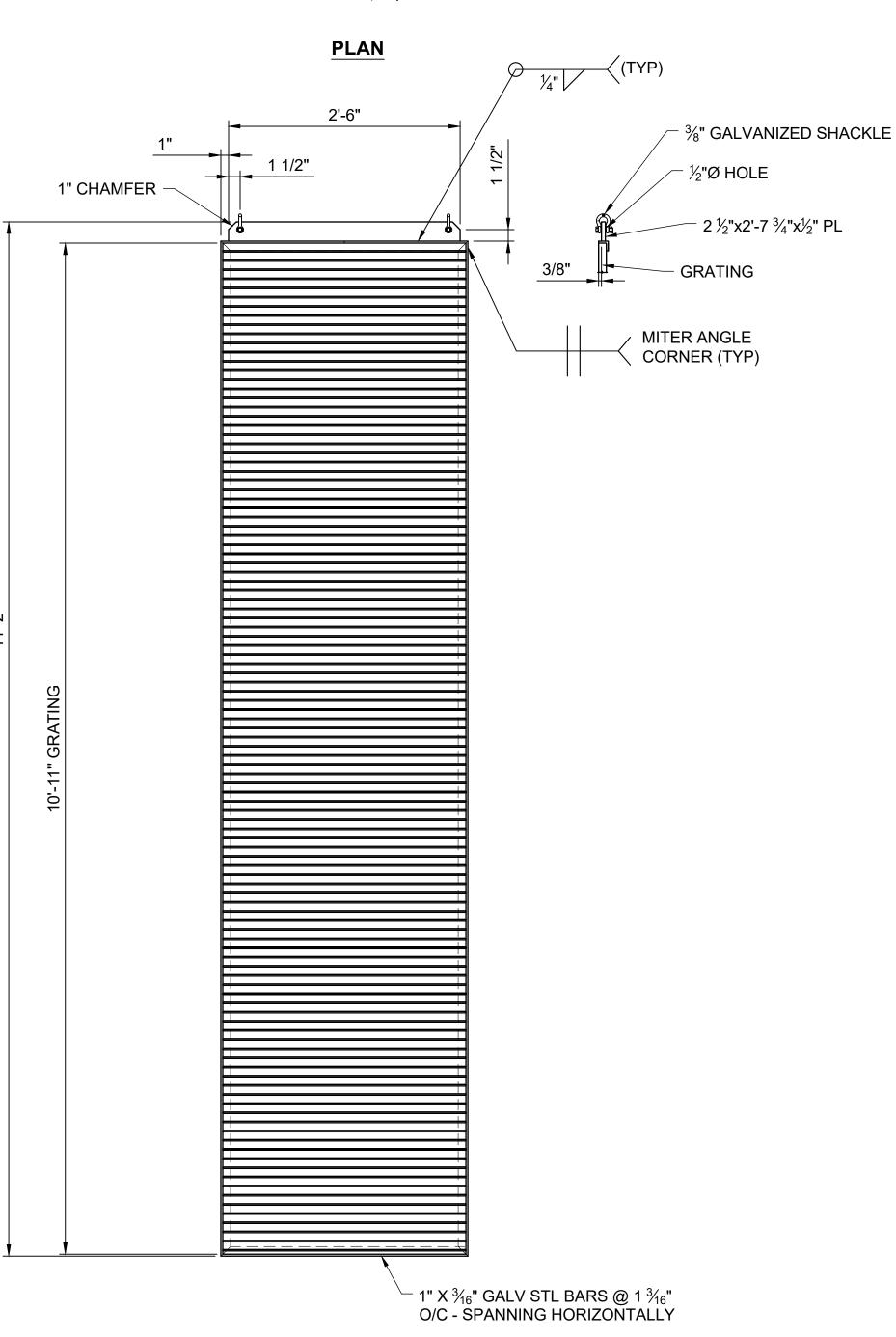


2'-8" 4 SIDES BANDED WITH L1½X1½X¼ ALL BARS (TYP) ½"



ENLARGED AREA PLAN SCALE: 1 1/2"=1'-0"





ELEVATION

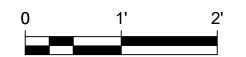
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CROWDER REMOVABLE SCREEN PANELS (12 REQUIRED)

SCALE: 1"=1"





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WOODLAND FISH LIFT PASSAGE DESIGN

MAINE DEPARTMENT OF MARINE
RESOURCES

CROWDER SCREEN DETAILS

NOTES:

1. 4 SCREENS SHALL HAVE REMOVABLE WHITE

2. ALL CARBON STEEL ITEMS SHALL BE GALVANIZED.

FIBERGLASS PANEL INSERTS.

3. WEIGHT OF GRATING SCREEN = 230 LBS.

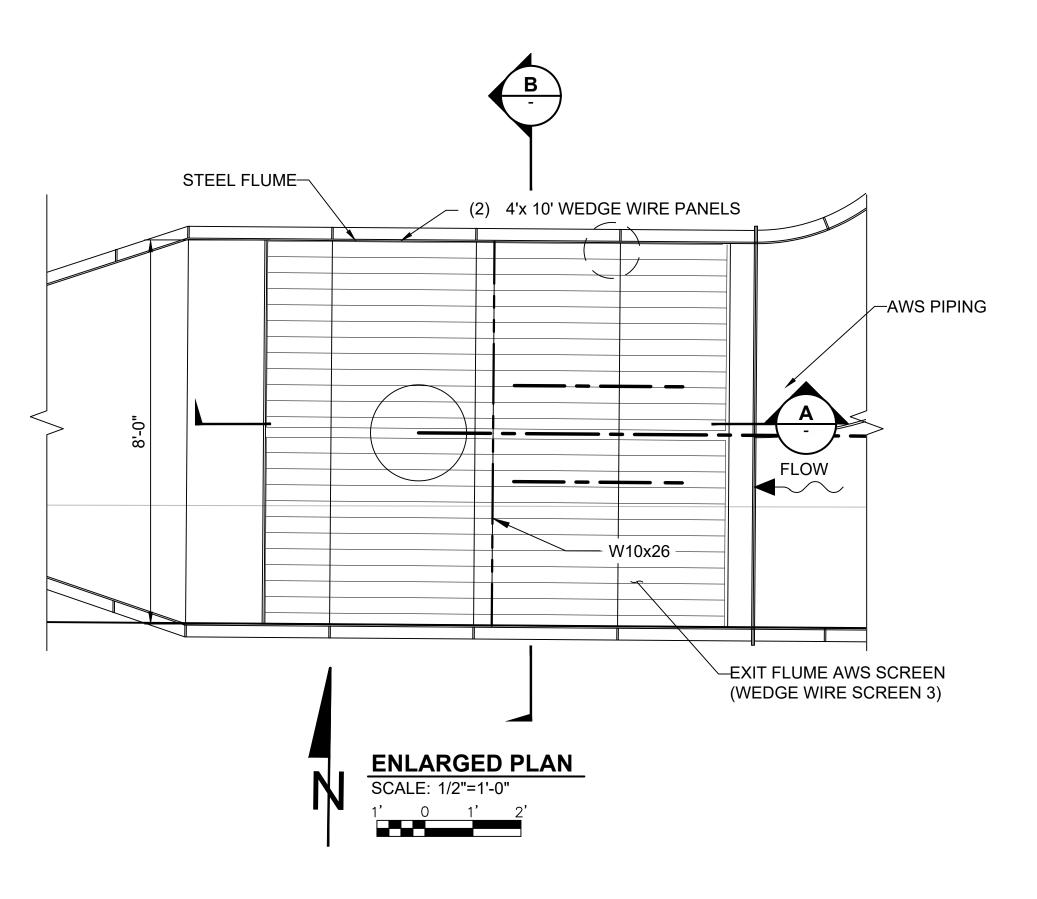
PROJECT: 16667

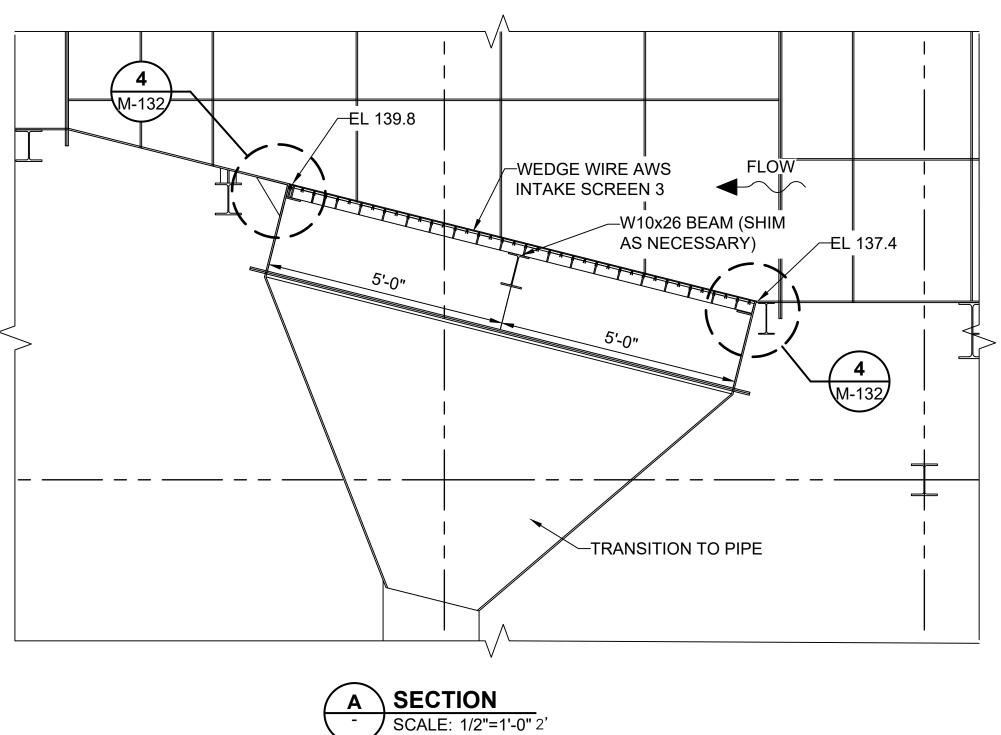
DRAWN BY: C. HAGLER

DESIGNER: A. MENGERT

APPROVED BY: M. GRAESER

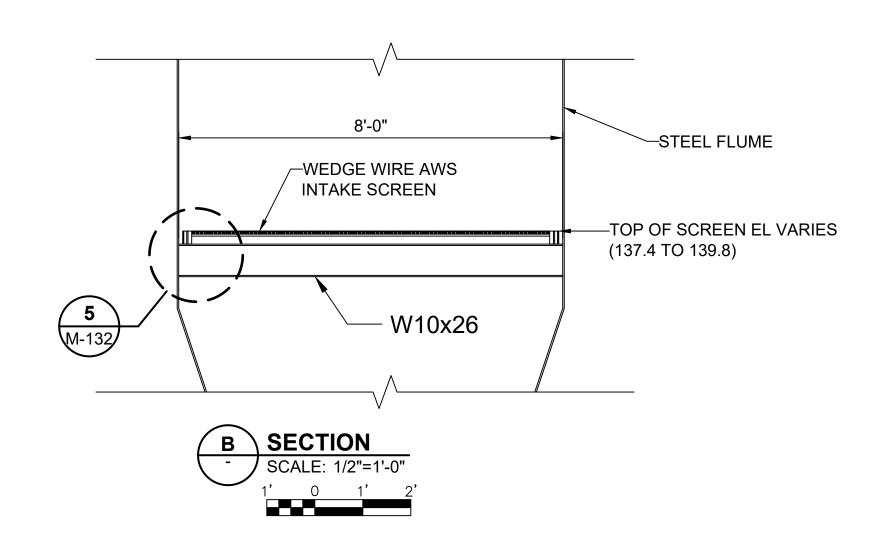
SHEET: 228 OF 240





NOTES:

- 1. PROVIDE AIR BURST SYSTEM. SEE SPECIFICATION 35 20 13 FOR DETAILS.
- 2. WIRE ORIENTATION SHALL BE PARALLEL TO FLOW. THE SCREEN SHALL BE MOUNTED FLUSH WITH THE STRUCTURE AND NO GAPS GREATER THAN 1/4 INCH.
- 3. COORDINATE WITH MANUFACTURER FOR ANY REQUIRED SPACERS BETWEEN THE SCREENS. MANUFACTURER SHALL PROVIDE DETAIL FOR SMOOTH TRANSITION BETWEEN WEDGE WIRE SCREEN PANELS.





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WOODLAND FISH LIFT PASSAGE DESIGN

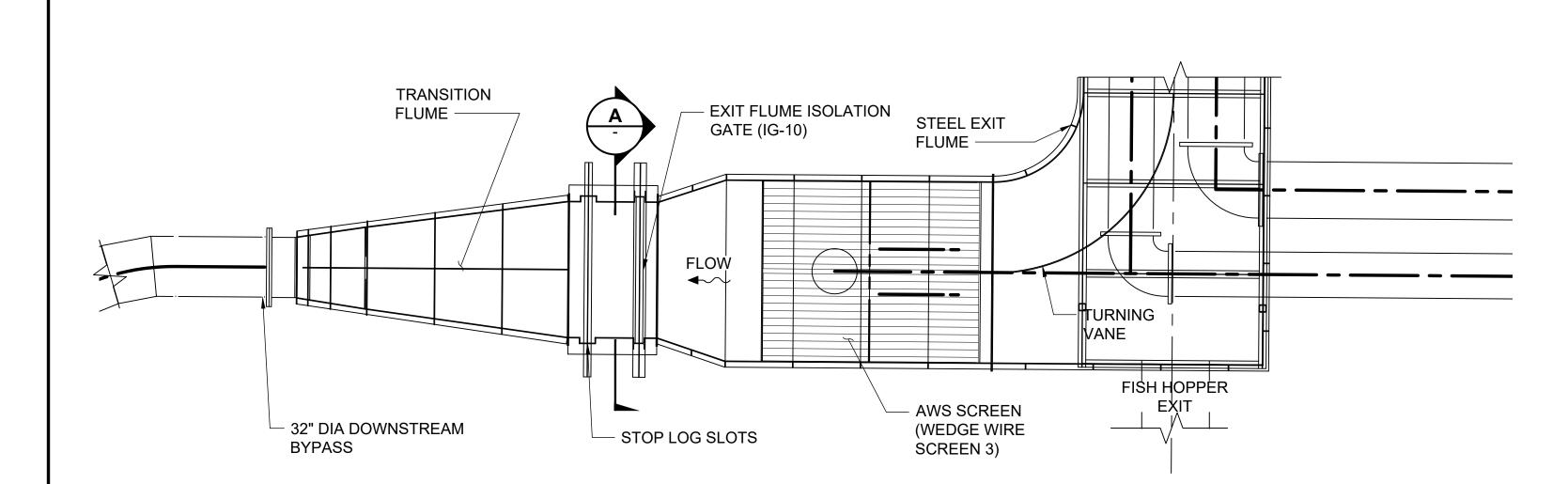
MAINE DEPARTMENT OF MARINE RESOURCES

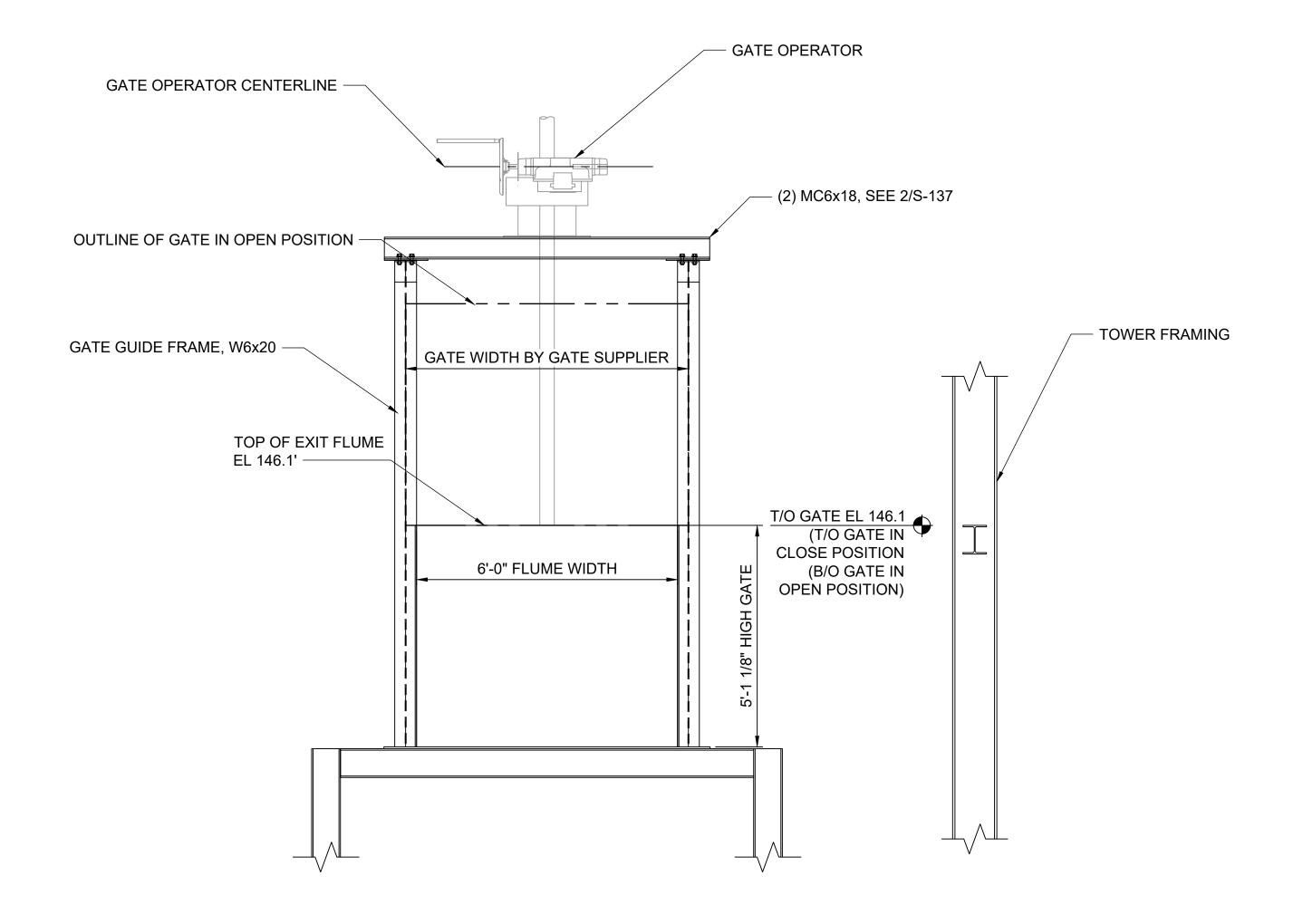
EXIT FLUME WEDGE WIRE SCREEN

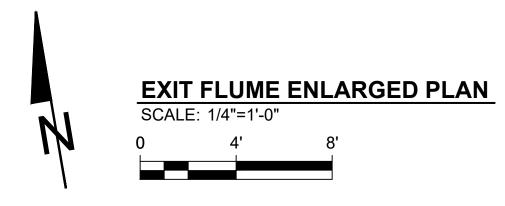
	PROJECT:	16667
	DRAWN BY:	C. HAGLER
	DESIGNER:	A. MENGERT
3	APPROVED BY:	M. GRAESER
•	SHEET: 229	OF 240

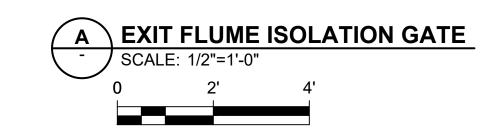
NOTES:

- GENERAL OVERVIEW OF EXIT FLUME BYPASS ISOLATION GATE (IG-10)
- SIZE OF OPENING, 6.00'W x 5.10'H
- MOVEMENT OF GATE. UPWARD OPENING.
- OPERATION OF GATE: OPEN / CLOSE
- 2. FLUME WATER ELEVATIONS:
- LOW WSL 144.0'
- NORMAL WSL 144.6'
- HIGH WSL 145.4'











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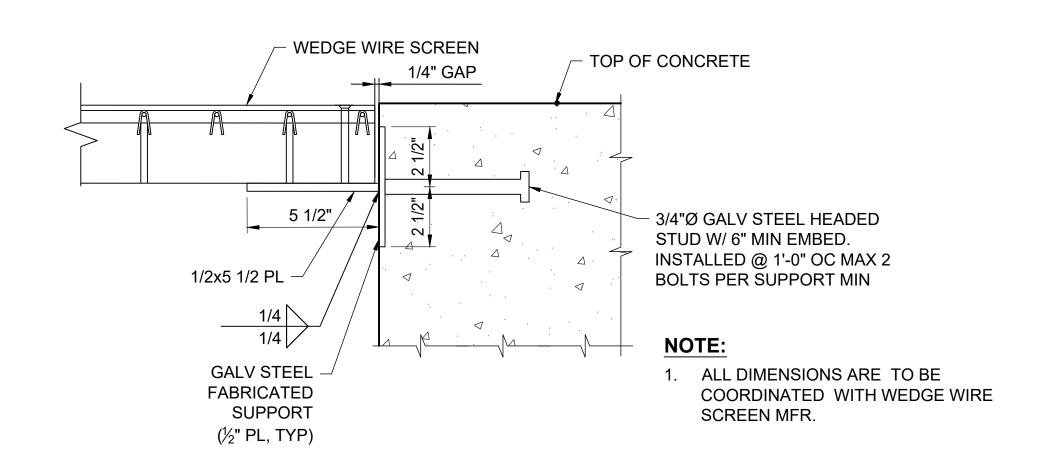
WOODLAND FISH LIFT PASSAGE DESIGN

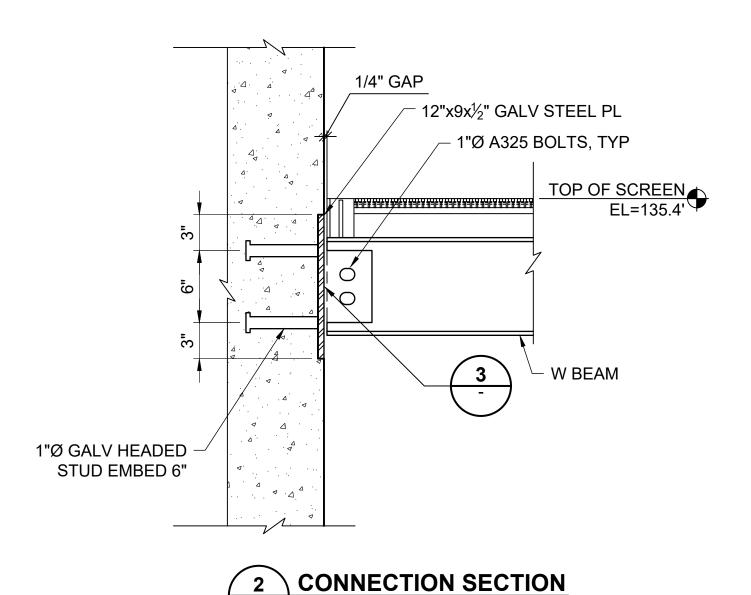
MAINE DEPARTMENT OF MARINE

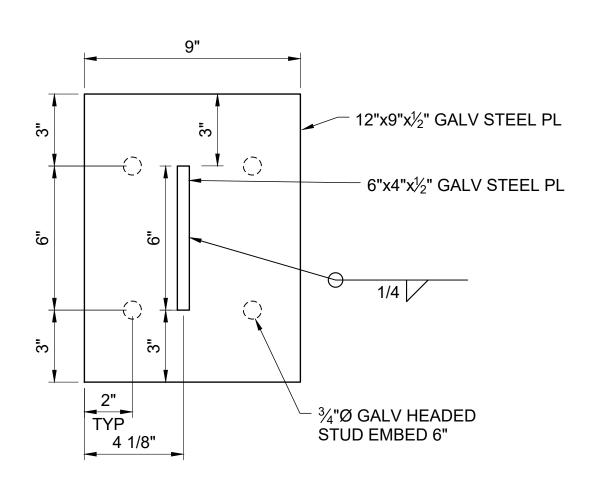
RESOURCES

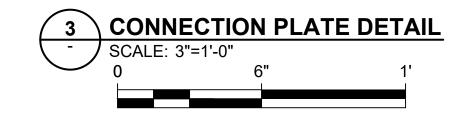
EXIT FLUME ISOLATION GATE (IG-10)

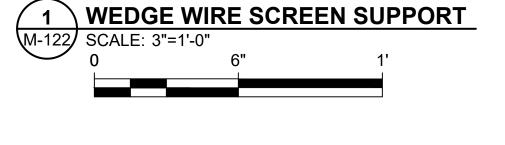
	PROJECT:	16667
	DRAWN BY:	C. HAGLER
	DESIGNER:	A. MENGERT
)	APPROVED BY	: M. GRAESER
,	SHEET: 23	0 OF 240
	DRAWING:	M-131

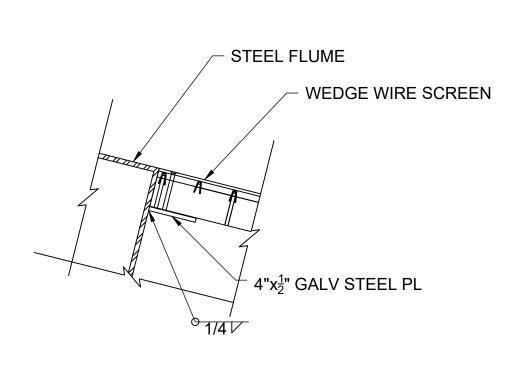


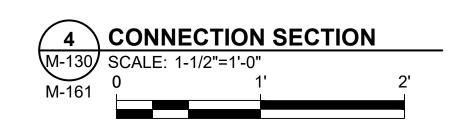


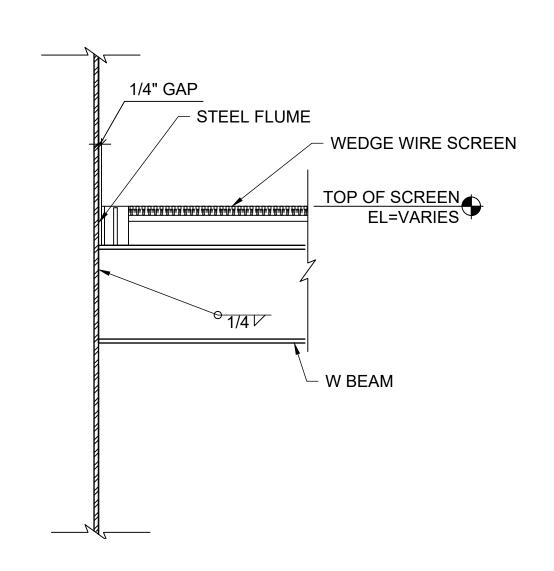


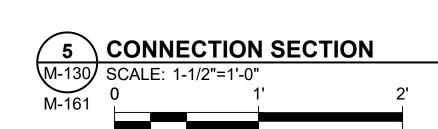












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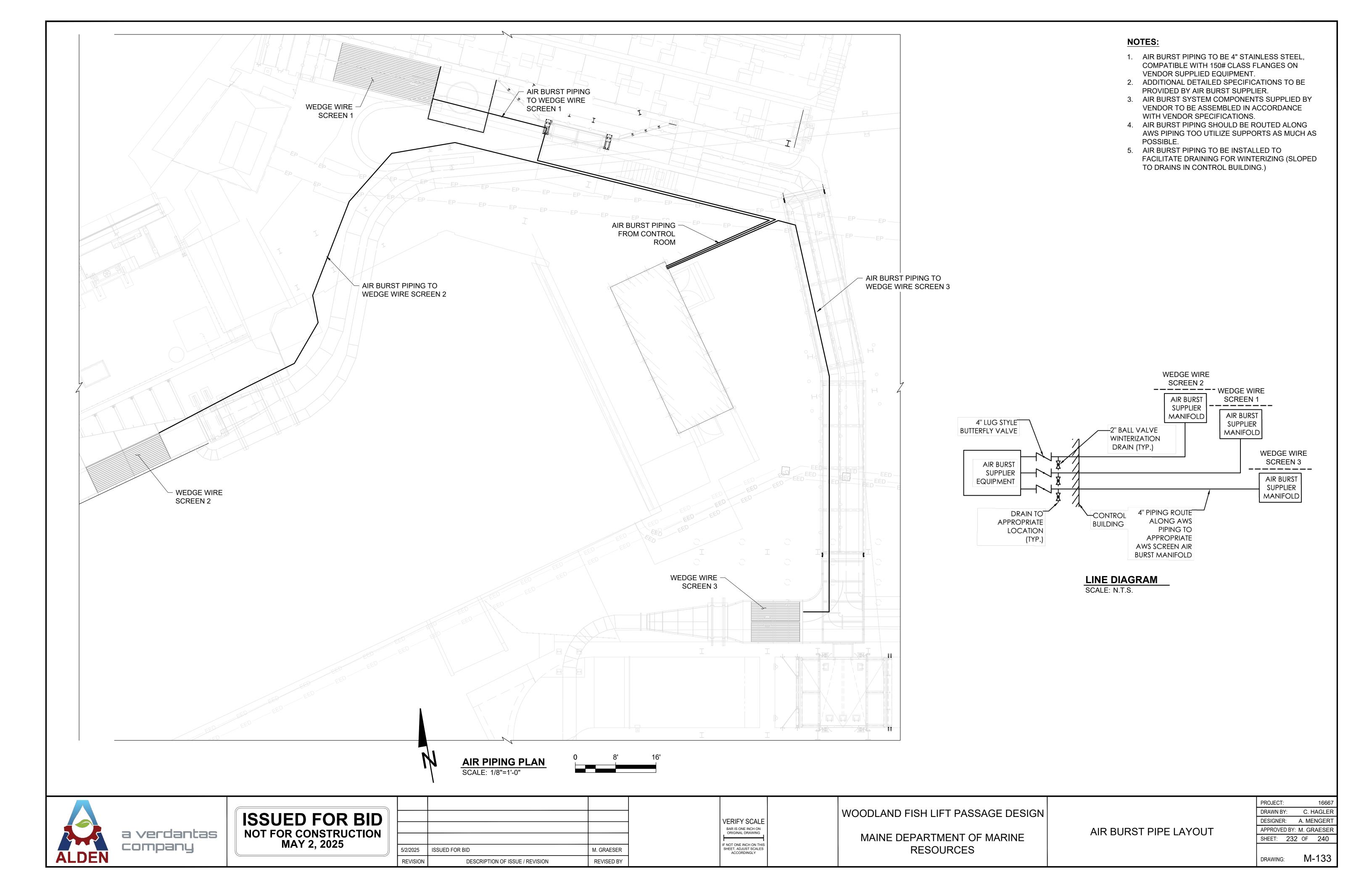
WOODLAND FISH LIFT PASSAGE DESIGN

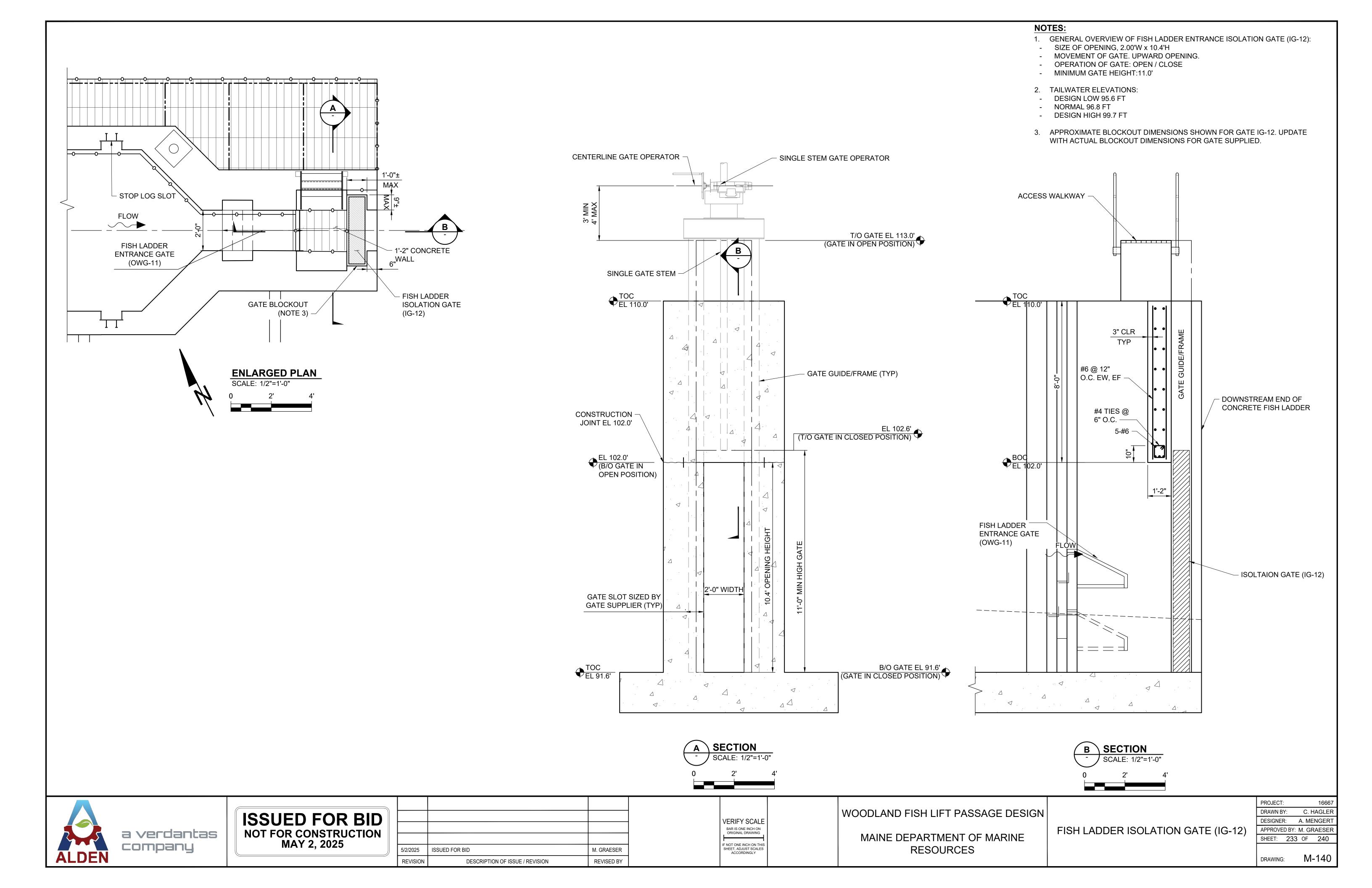
MAINE DEPARTMENT OF MARINE

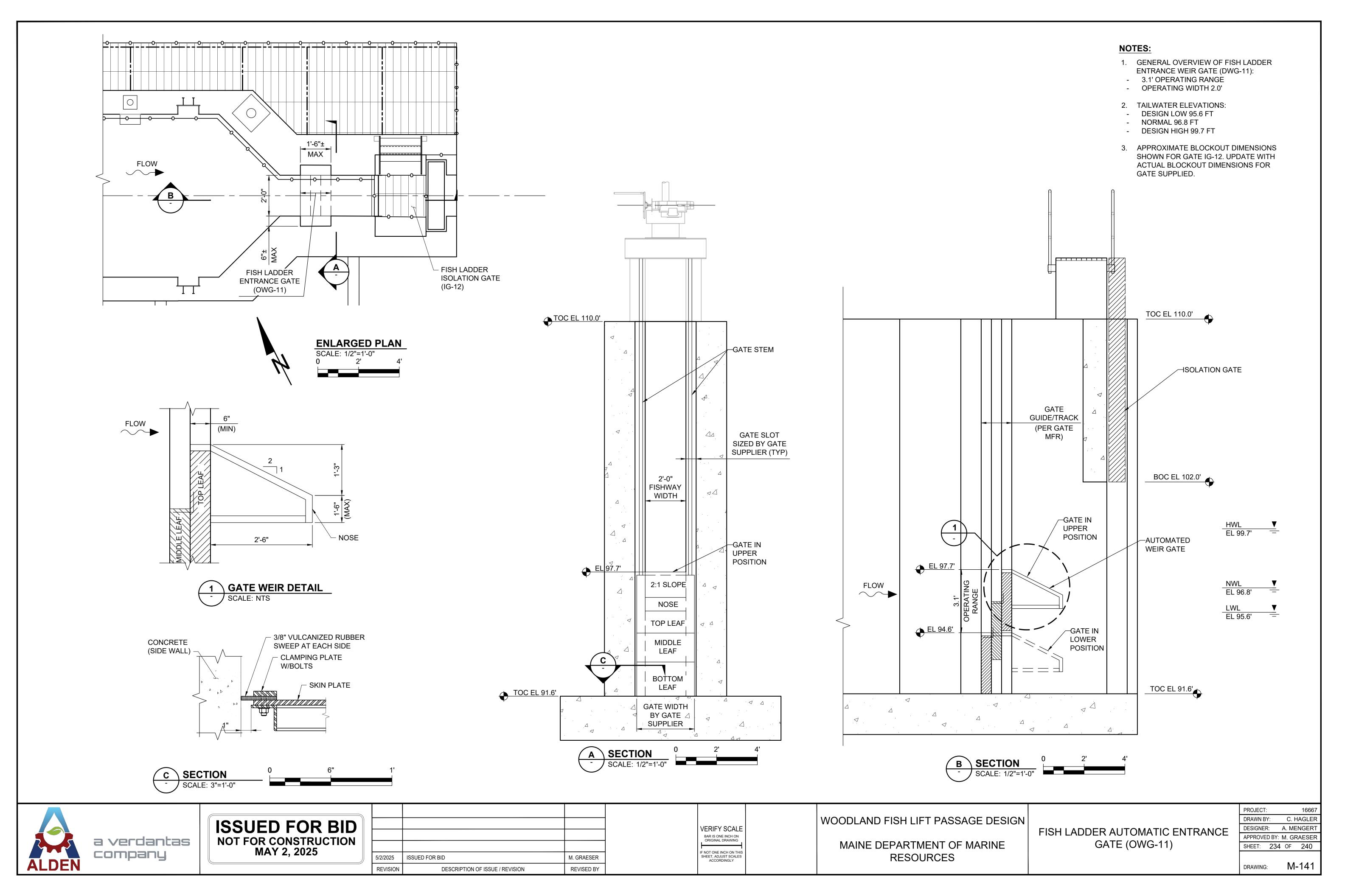
RESOURCES

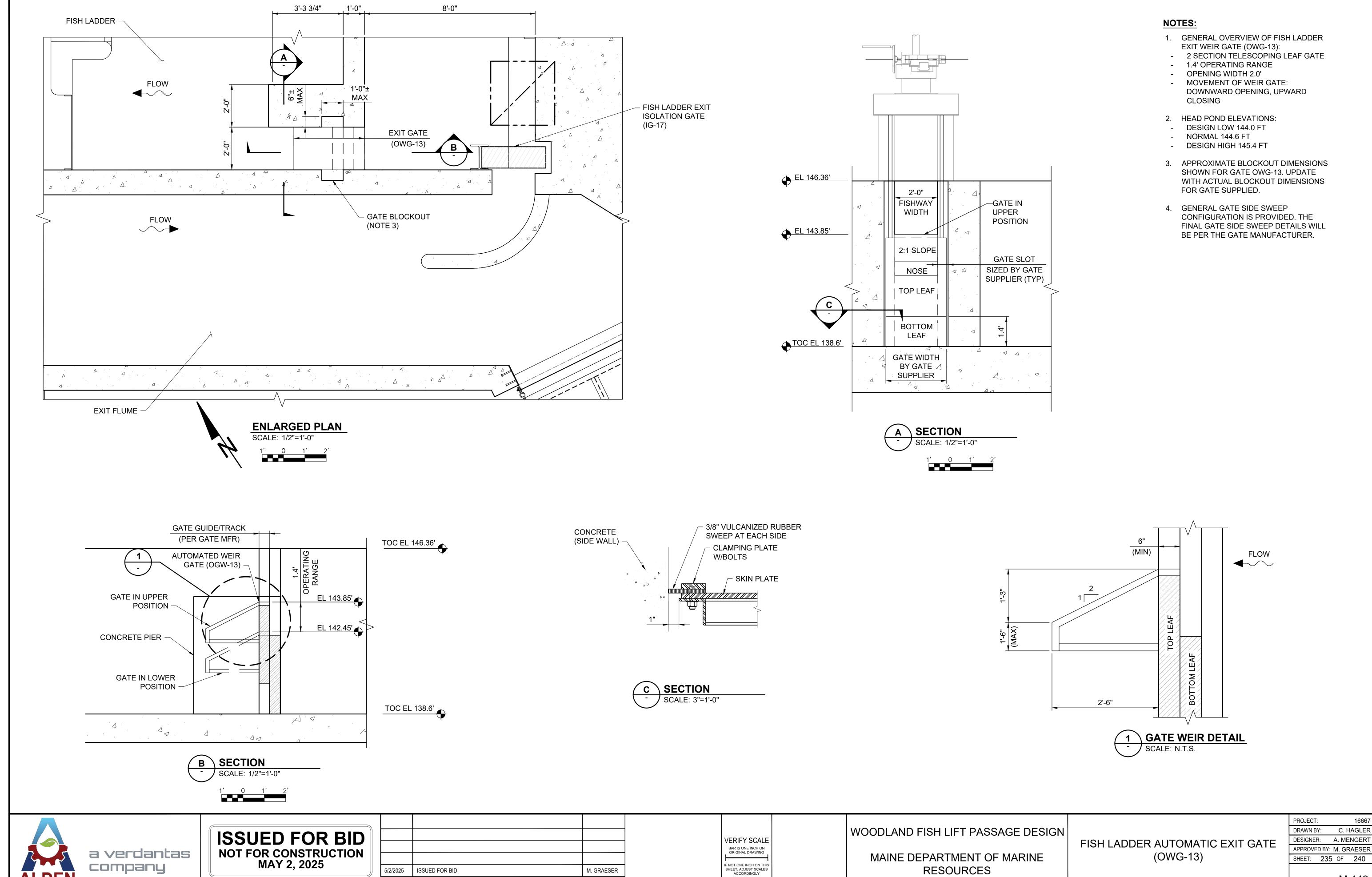
EXIT FLUME WEDGE WIRE SCREEN DETAILS

PROJECT:	16667
DRAWN BY:	C. HAGLER
DESIGNER:	A. MENGERT
APPROVED BY:	M. GRAESER
SHEET: 231	OF 240
DRAWING:	M-132









5/2/2025

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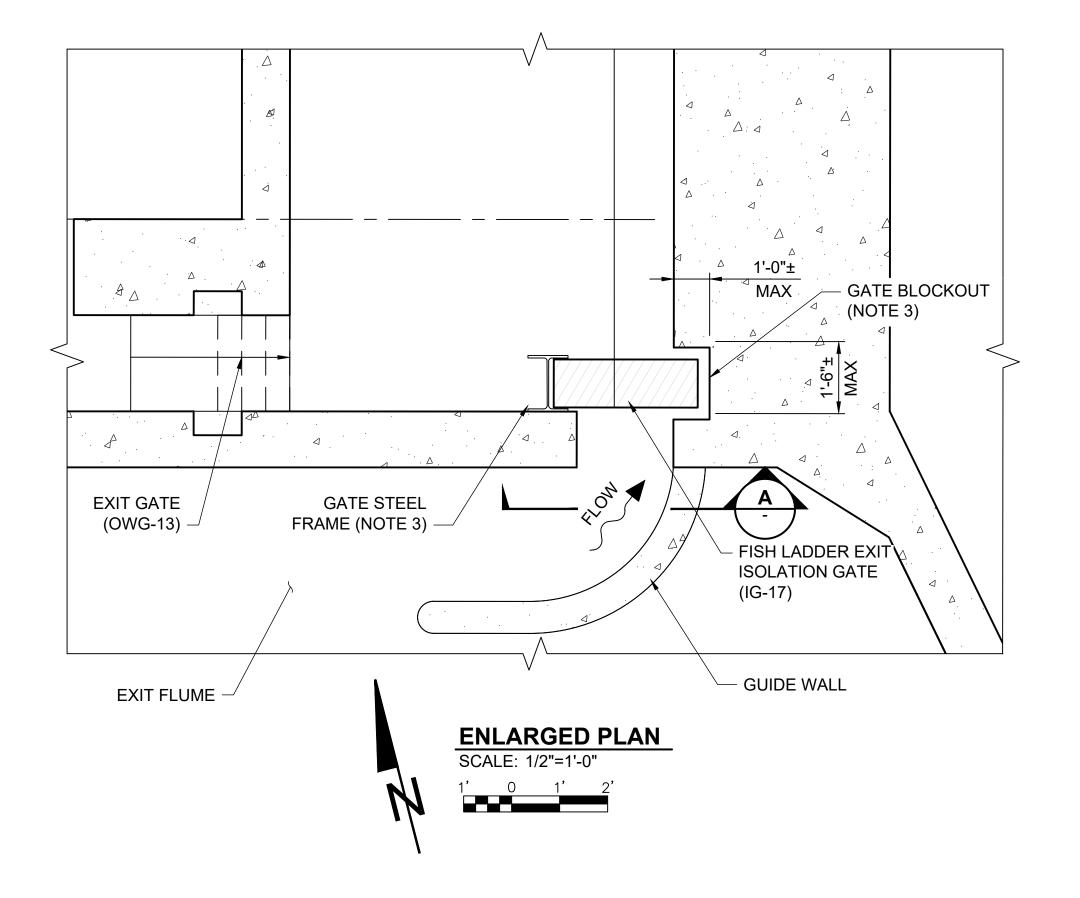
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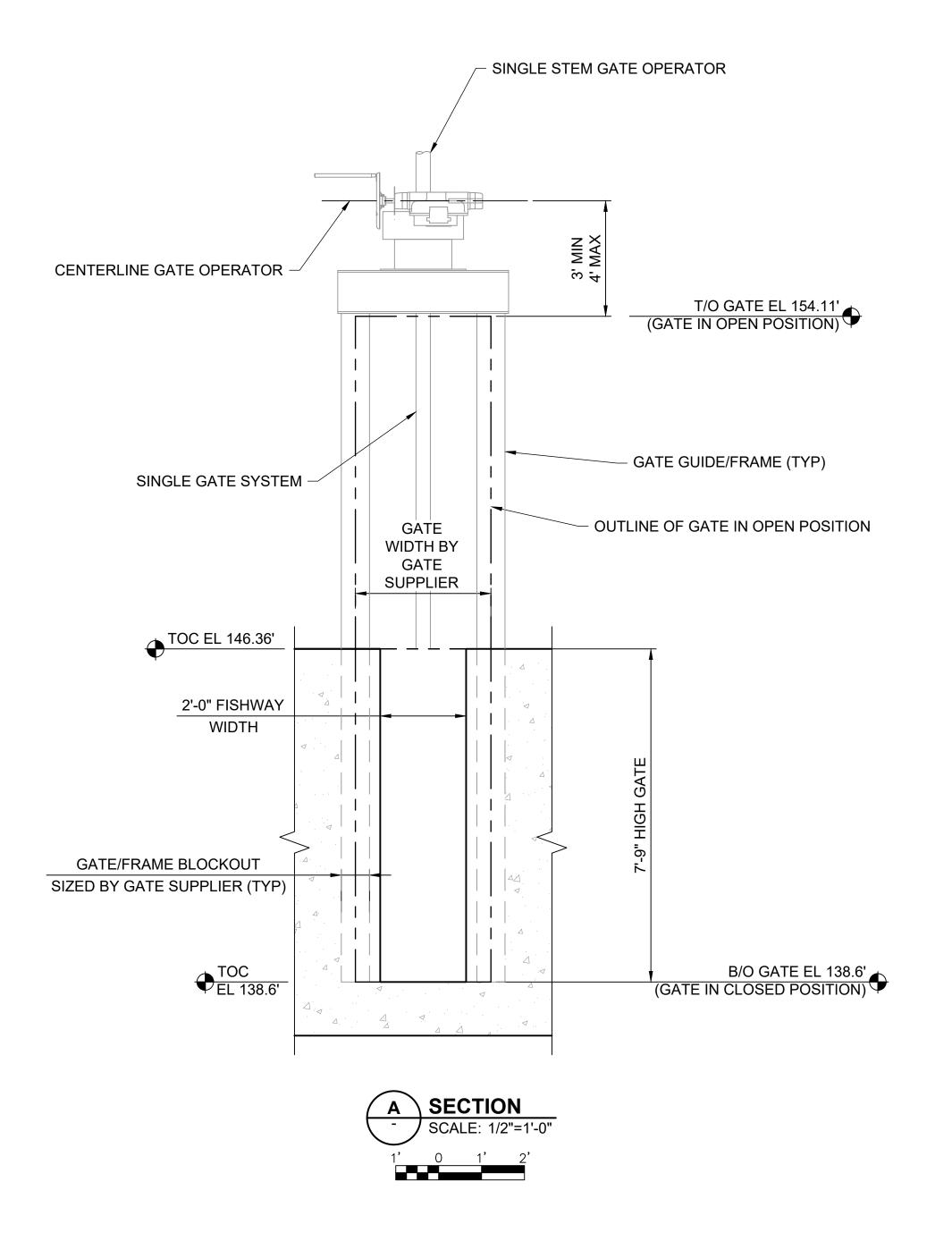
M-142 DRAWING:



NOTES: 1. GENE ISOLA - SIZI

- GENERAL OVERVIEW OF FISH LADDER EXIT ISOLATION GATE (IG-17):
- SIZE OF OPENING, 2.00'W x 7.75'H
- MOVEMENT OF GATE. UPWARD OPENING.OPERATION OF GATE: OPEN / CLOSE
- 2. FLUME WATER ELEVATIONS:
- LOW WSL 144.0'
- NORMAL WSL 144.6'HIGH WSL 145.4'
- 3. APPROXIMATE STEEL FRAME AND BLOCKOUT DIMENSIONS SHOWN FOR GATE IG-17. UPDATE WITH ACTUAL BLOCKOUT

DIMENSIONS FOR GATE SUPPLIED.



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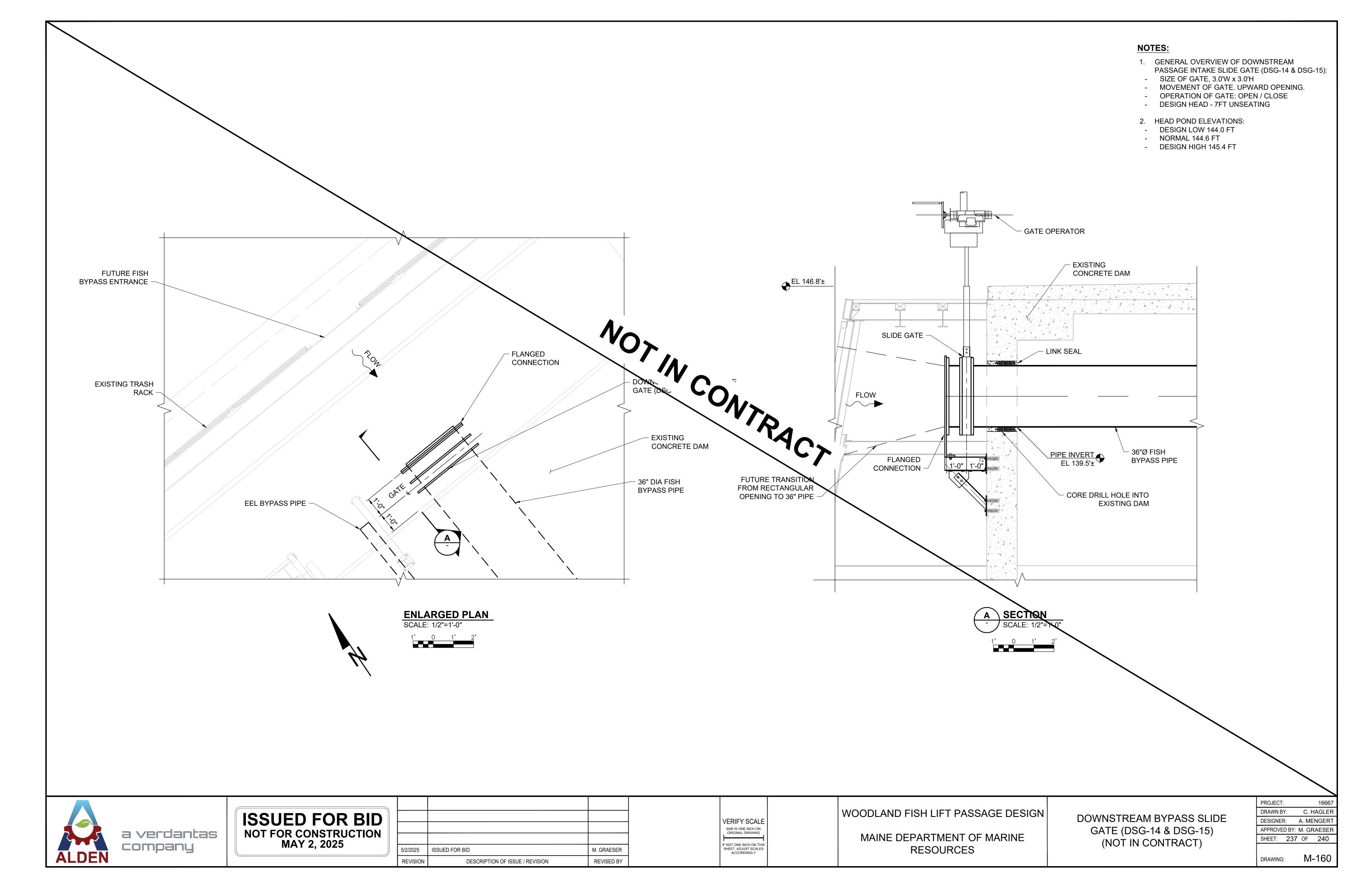
WOODLAND FISH LIFT PASSAGE DESIGN

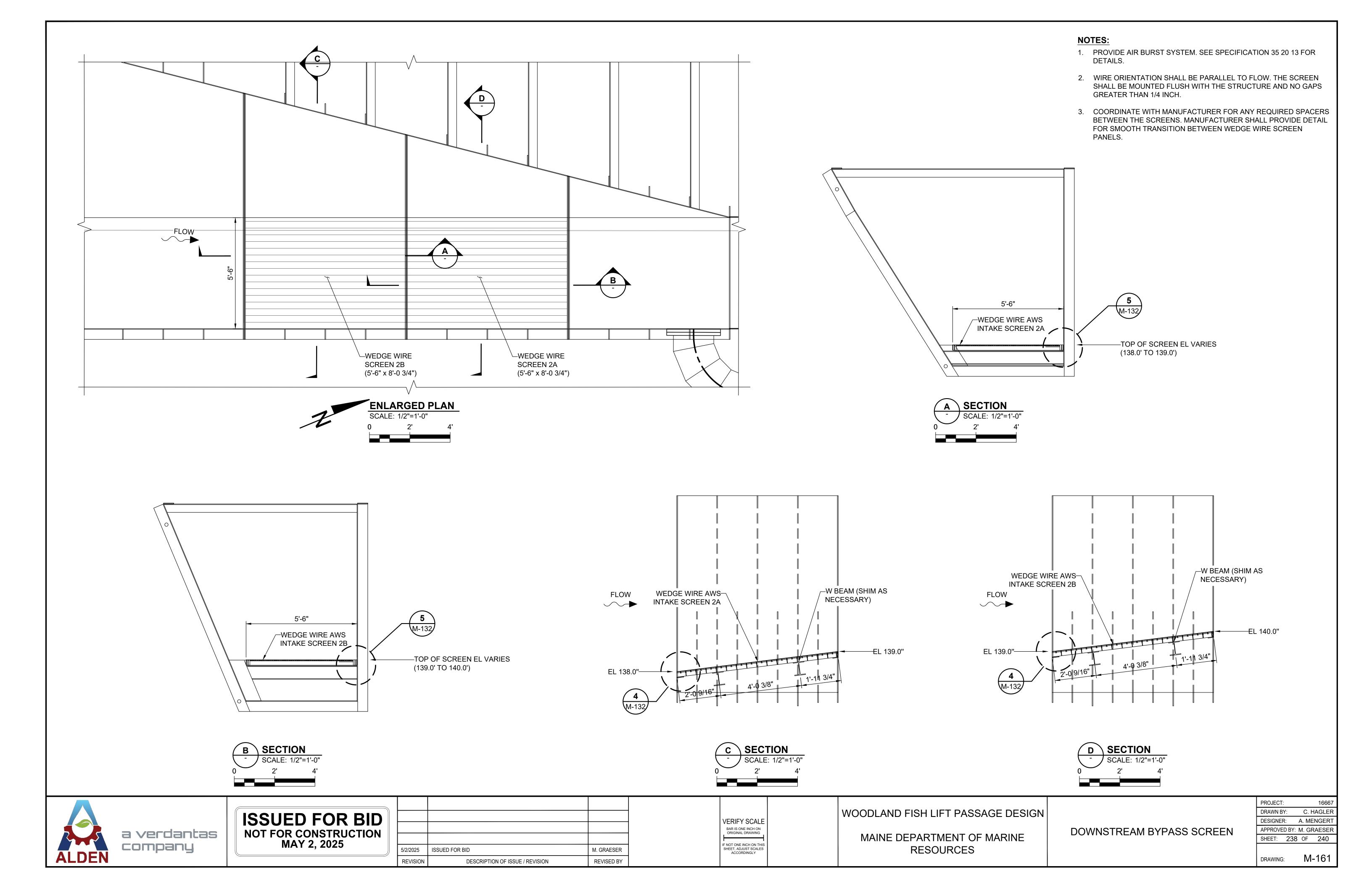
MAINE DEPARTMENT OF MARINE

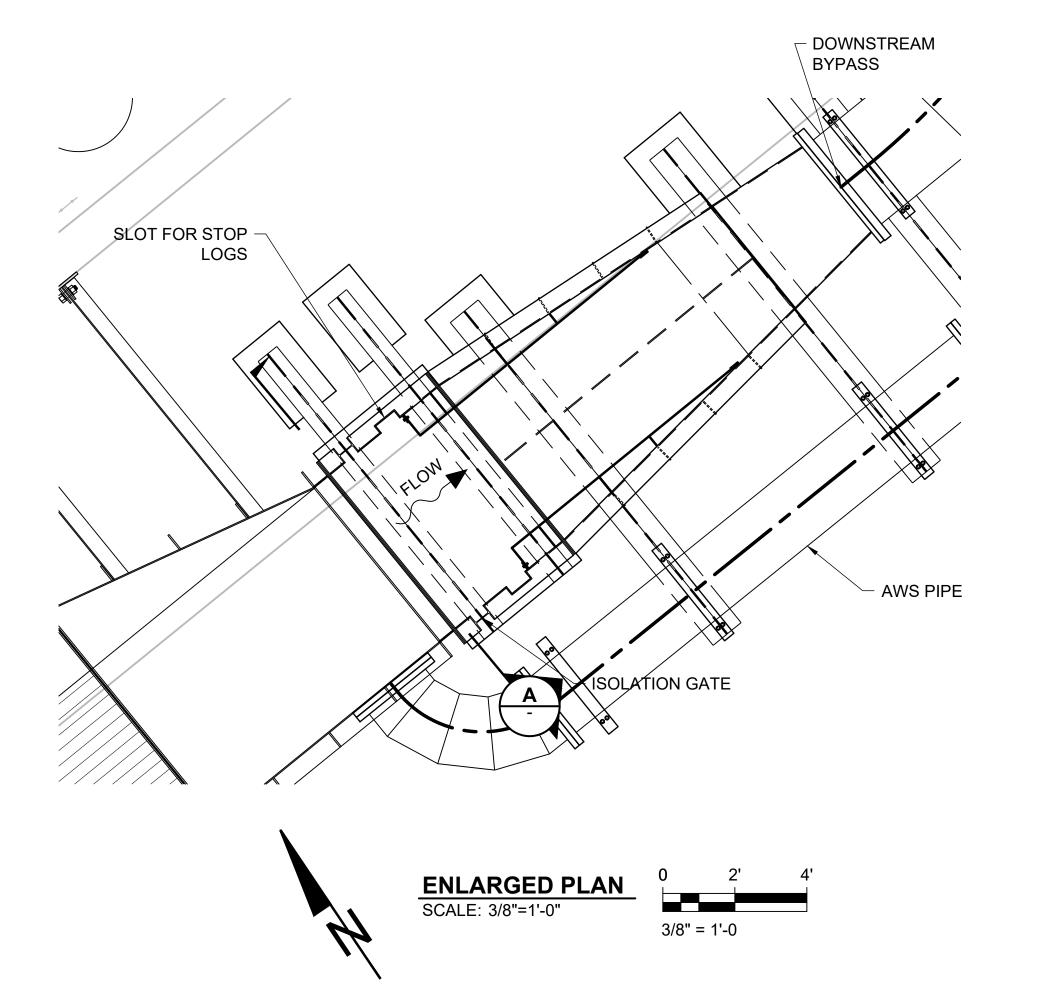
RESOURCES

FISH LADDER EXIT ISOLATION GATE (IG-17)

PROJECT:	16667
DRAWN BY:	C. HAGLER
DESIGNER:	A. MENGERT
APPROVED BY:	M. GRAESER
SHEET: 236	OF 240
DRAWING:	M-143

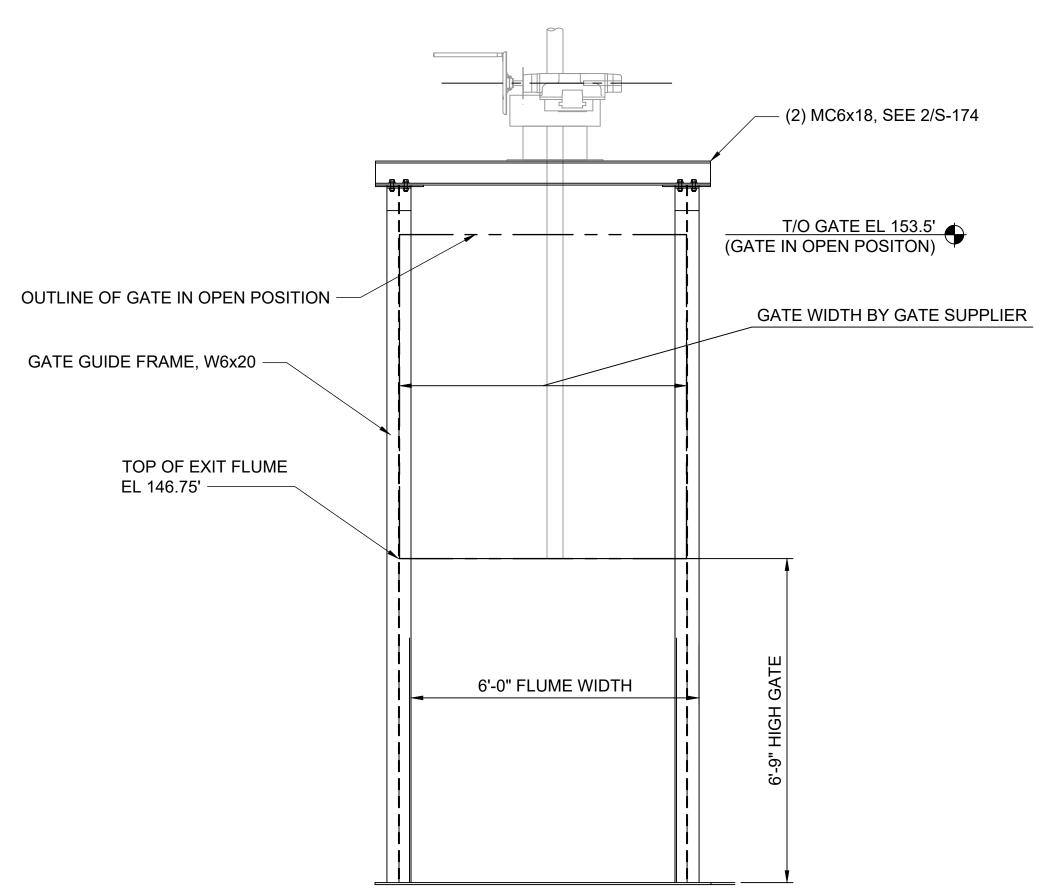






NOTES:

- GENERAL OVERVIEW OF DOWNSTREAM PASSAGE INTAKE ISOLATION GATE (IG-16):
 SIZE OF GATE, 5.5'W x 6.75'H
- MOVEMENT OF GATE. UPWARD OPENING.
- OPERATION OF GATE: OPEN / CLOSE
- 2. HEAD POND ELEVATIONS:
- DESIGN LOW 144.0 FT
- NORMAL 144.6 FT
- DESIGN HIGH 145.4 FT









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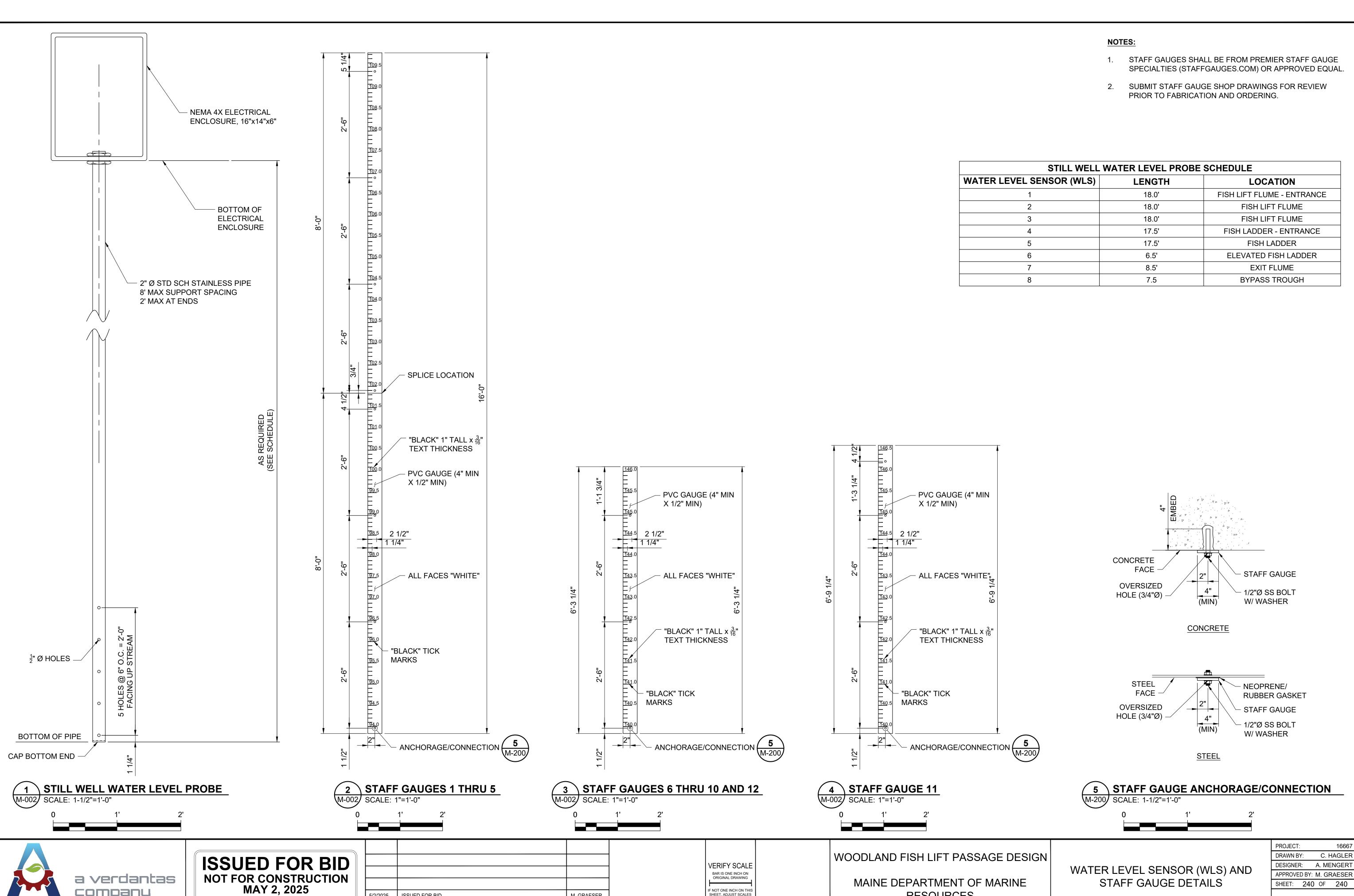
WOODLAND FISH LIFT PASSAGE DESIGN

MAINE DEPARTMENT OF MARINE

RESOURCES

DOWNSTREAM ISOLATION GATE (IG-16)

PROJECT:	16667
DRAWN BY:	C. HAGLER
DESIGNER:	A. MENGERT
APPROVED BY:	M. GRAESER
SHEET: 239) OF 240
DRAWING:	M-163



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RESOURCES

APPROVED BY: M. GRAESER SHEET: 240 OF 240

M-200 DRAWING:

STAFF GAUGE DETAILS