

WASHINGTON SHOR FISH LADDER PLATE LOCATION - KEY PLAN

NTS

(GRATING AND PLATES NOT SHOWN FOR CLARITY)

Dieta Tura Fabrication Curamany			
Plate Type Fabrication Summary			
	Required For	Government	Plates to be
Plate Kind	This Project	Furnished Plate	fabricated
Е	10		10
G	25		25
F	15	15	0

US Army Corps of Engineers® PORTLAND DISTRICT

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AZADEH YAZDANI
LAND DISTRICT
G2ECDACW
SUBMITTED BY:
MATTHEW D. HANSON
PLOT SCALE:
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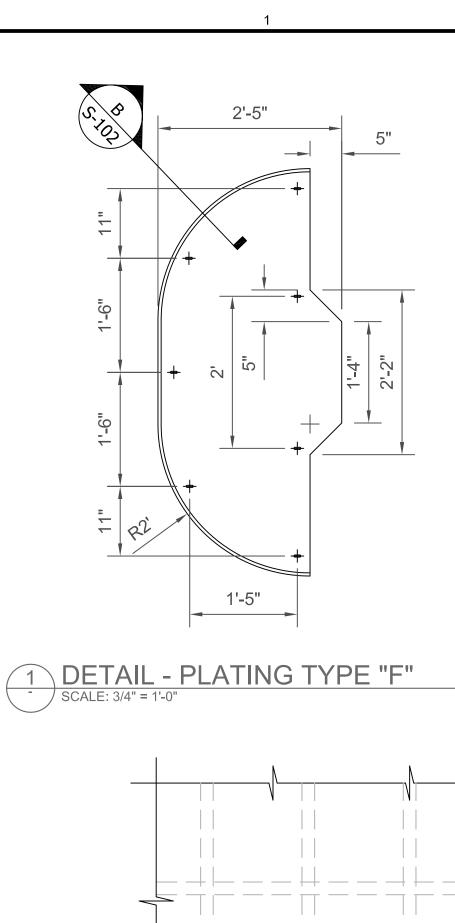
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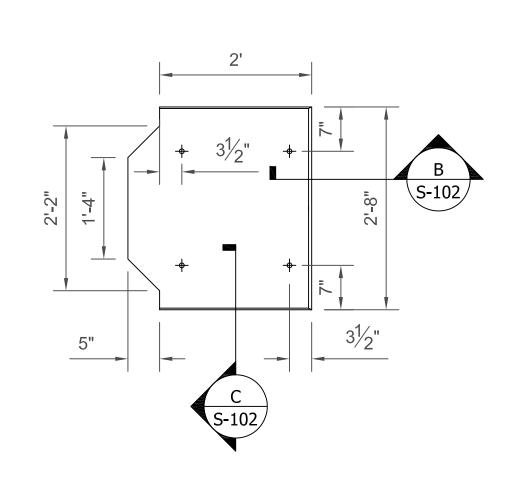
BONNEVILLE LOCK AND DAN FISHWAY ENTRANCE AMPREY PASSAGE MODIFICAT PLATE DETAILS SHEET 2

SHEET IDENTIFICATION S-001

NOTE:

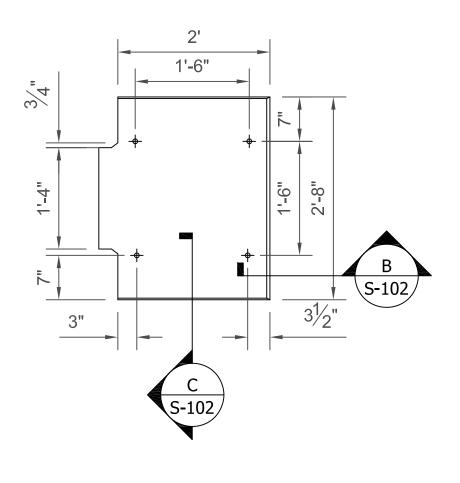
GOVERNMENT FURNISHED PLATES WILL BE DELIVERED TO THE WORK AREA, REFER TO SPEC SECTION 01 11 13.00 25 FOR MORE DETAILS.



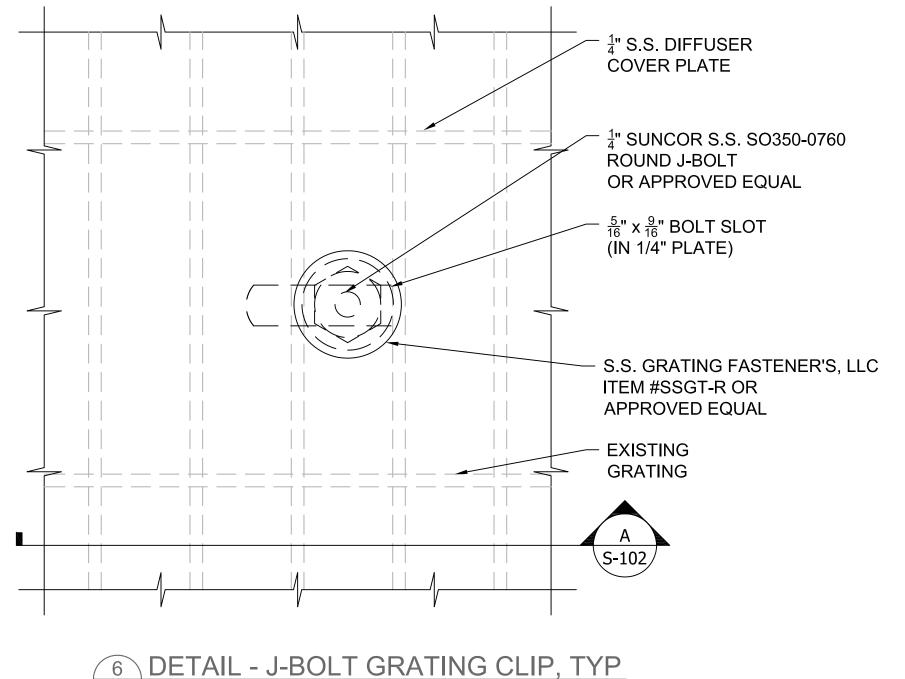


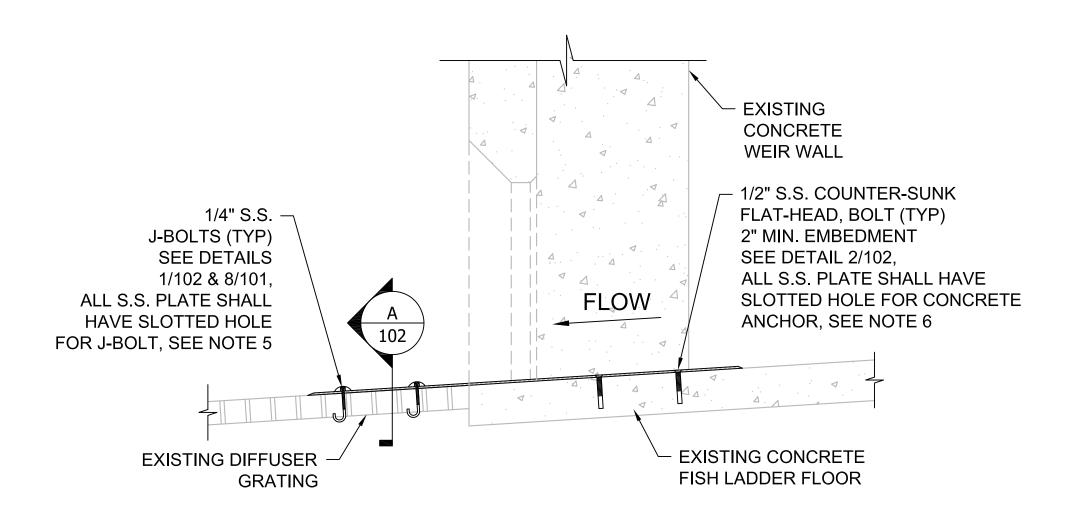
2 DETAIL - PLATING TYPE "E"

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



3 DETAIL - PLATING TYPE "G" - SCALE: 3/4" = 1'-0"



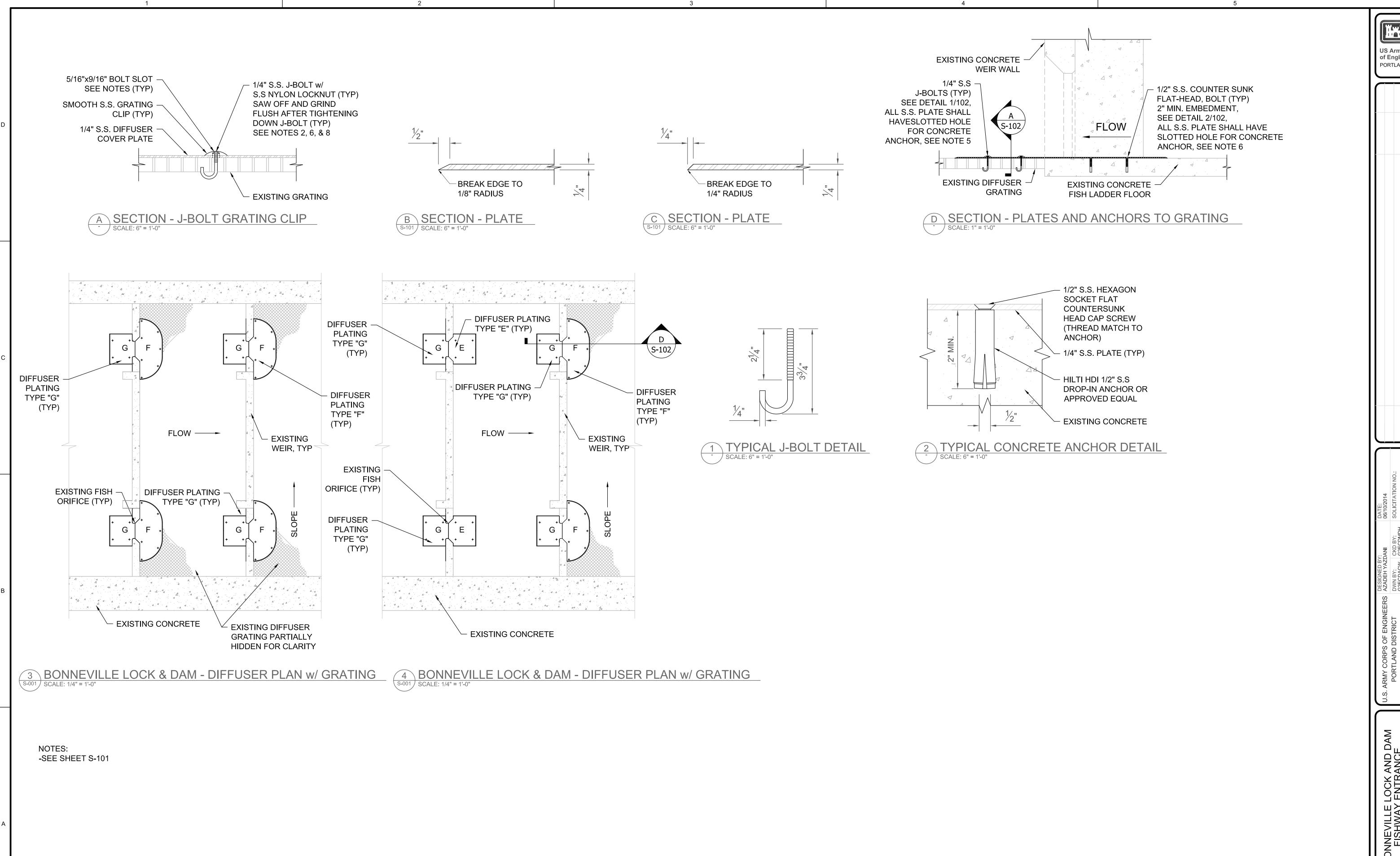


A THE DALLES - SECTION - PLATES AND ANCHORS TO GRATING

- 1. DIFFUSER COMPONENTS AND APPURTENANCES ONLY PARTIALLY SHOWN FOR CLARIFY.
- 2. GRIND ALL EXPOSED CORNERS AND SHARP EDGES SMOOTH. SEE METALS SPECIFICATION FOR MORE INFORMATION.
- 3. THE EXISTING DIFFUSER COVER PLATES SHALL BE REPLACED AND INSTALLED WITH NEW DIFFUSER PLATING AS SHOWN. REFER TO INFORMATIONAL DRAWINGS FOR MORE DETAIL.
- 4. THE CONTRACTOR SHALL APPLY DEVOE BAR-RUST TM235 EPOXY OR APPROVED EQUAL TO ALL SURFACES AND UNDERSIDE OF STAINLESS PLATING WHERE NEW STAINLESS STEEL DIFFUSER PLATING AND ASSOCIATED FASTENERS COME INTO DIRECT CONTACT WITH EXISTING METALS. EPOXY COATING SHALL APPLIED PER MANUFACTURE'S INSTRUCTIONS AND NOT ON THE EXISTING GRATING SURFACE.
- 5. USE SO350-0760 SUNCOR STAINLESS ROUND J-BOLTS, NUTS, AND GRATING CLIPS SHALL ALL BE AISI 300 SERIES STAINLESS STEEL (ALL FASTENER'S AND RELATED HARDWARE) OR
- APPROVED EQUAL. ALL J-BOLTS SLOTS SHALL BE 5/16" x 9/16" WITH LONG-SIDE ORIENTED PARALLEL TO THE FLOW DIRECTION. 6. SECURE DIFFUSER COVER PLATES TO CONCRETE FISHWAY FLOOR WITH 1/2" ROUND AISI 304 S.S. COUNTER SUNK FLAT-HEAD, MAX SPACING: 18" AND HILTI HDI S.S. DROP IN ANCHOR OR
- APPROVED EQUAL. ALL COUNTER SUNK FLAT-HEAD SLOTS SHALL BE 9/16"x11/16".
- 7. POSITION AND EDGE DISTANCE OF J-BOLTS MAY VARY TO ACCOMMODATE EXISTING DIFFUSER GRATING GEOMETRY. FIELD REAMING OF HOLES MAY BE REQUIRED.
- 8. ORIFICE PLATING TO BE CUT FROM FULL SIZE PLATE. NO SPLICING OF S.S. PLATE IS ALLOWED. DIMENSIONS SHOWN PROVIDE A 1/4" GAP BETWEEN THE PLATE AND THE DIMENSIONS SHOWN ON THE EXISTING DRAWINGS. CONTRACTOR SHALL INFORM THE GOVERNMENT OF NECESSARY PLATE MODIFICATIONS AS FIELD FITTING MAY BE REQUIRED.
- 9. WHEN PLATES ARE IN CONTACT WITH CONCRETE, USE DETAIL 2/102 FOR CONNECTION.
- 10. ALL PLATING SHALL BE 1/4" THICK S.S., UNLESS OTHERWISE NOTED. 11. IT IS ACCEPTABLE TO SHIM FISH LADDER CONCRETE FLOOR TO HAVE A SMOOTH SURFACE TO INSTALL THE PLATES.
- 12. ALL ORIFICE PLATES SHALL BE INSTALLED WITH NO GAP UP TO A MAXIMUM OF 1/4" AT THE ORIFICE CENTERLINE. ALL THE CENTERLINE JOINTS AND GAP BETWEEN THE ORIFICE WALL AND
- PLATE SHALL BE FILLED WITH SPLASH ZONE EPOXY OR APPROVED EQUAL.
- 13. MINIMUM EDGE DISTANCE OF 2 INCHES TO THE PLATE IS REQUIRED FOR ALL BOLT FASTENER'S UNLESS OTHERWISE NOTED. 14. THE EXPOSED HEAD OF J-BOLTS SHALL BE COVER WITH SPLASH ZONE EPOXY OR APPROVED EQUAL
- 15. CONTRACTOR REQUIRED TO REMOVE THE EXISTING PLATES FROM WEIRE NUMBER 8-19. CONTRACTOR SHALL VERIFY EXISTING PLATES PRIOR TO REMOVAL.

US Army Corps of Engineers® PORTLAND DISTRICT

IDENTIFICATION S-101



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ARK DESCRIPTION

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MATTHEW D. HANSON
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BONNEVILLE LOCK AND DAM FISHWAY ENTRANCE AMPREY PASSAGE MODIFICATION PLATE DETAILS SHEET 2

SHEET IDENTIFICATION S-102