WASHINGTON SHORE FISH VIEWING BUILDING GABLE ROOF

COORDINATION WITH FISH PASSAGE O&M (FPOM) TEAM

10 SEPTEMBER 2009

BACKGROUND:
The Fish Viewing Building on the Washington shore was originally designed as a flat concrete roof with tar and seam protection from the weather. This visitor center receives nearly 100,000 visitors a year and is home to the fish counting office.

With the region being one of the rainiest in the nation, the roof has continued to leak despite years of effort to repair. As a result one-of-a-kind displays and murals have been damaged beyond repair, carpets and ceiling tiles have been damaged, and generally unsightly conditions have resulted.

The Fish Viewing Building was constructed with a low profile, flat roof. Along the long axis of the building a small drain was installed. This drain has proven unable to handle the heavy rains of the Columbia River Gorge. In order to deflect the rain from the roof while maintaining the area as a meeting area for the public, a gable roof has been designed to cover the existing area.

FUNDING:
ARRA

SCHEDULE:
The project has plans and specifications at the 90% level.

Design Complete:	September
Award:	16 April 2010
Construction Start:	May 2010

The Washington Shore Fish Ladder will not be dewatered this upcoming in-water-work period.

CONSTRUCTION
The construction will consist of:

1 Concrete Demolition
2 Excavation
3 Concrete Placement
4 Steel Erection
5 Roof Erection

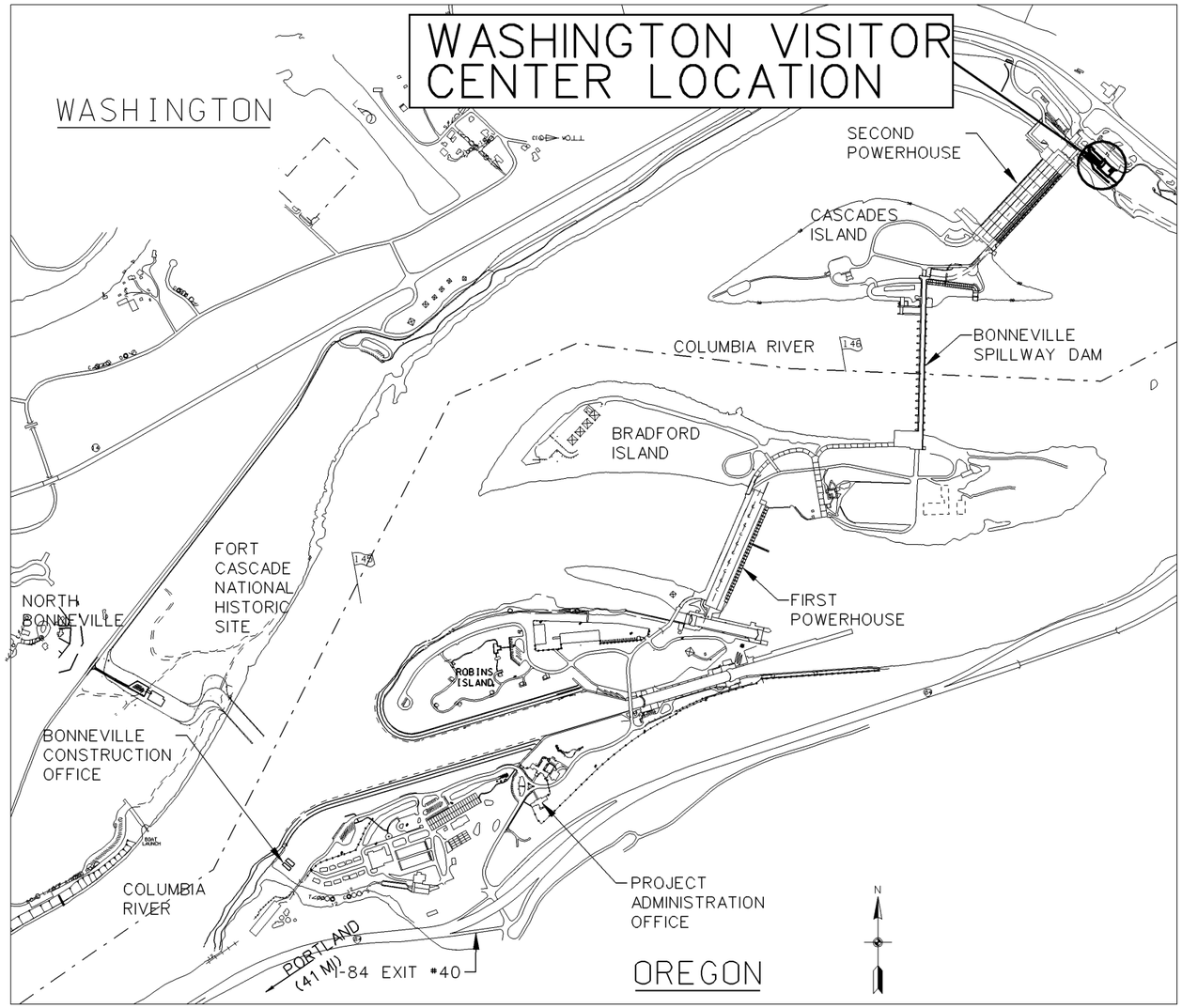
QUESTIONS FOR THE FISH PASSAGE O&M (FPOM) TEAM

1 Can we construct outside of the in-water work period?
2 What are the limitations or restrictions for construction?
3 Are there any other requirements?

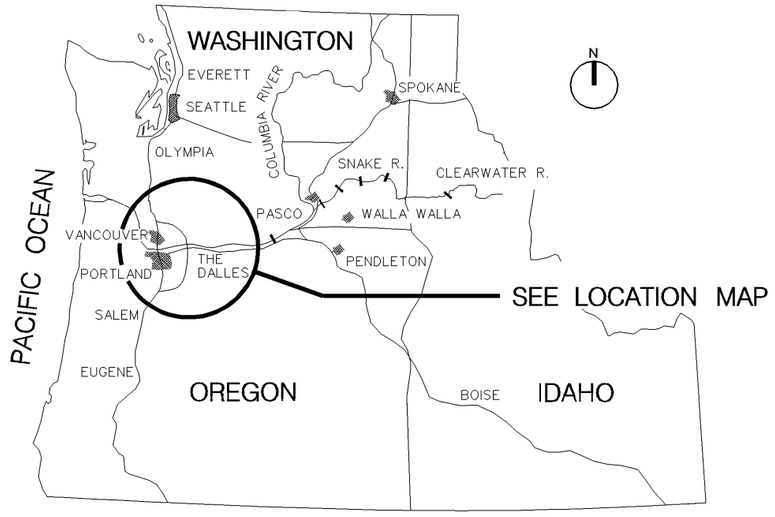
US Army Corps of Engineers ®
Walla Walla District

BONNEVILLE LOCK AND DAM

WASHINGTON VISITOR CENTER ROOF

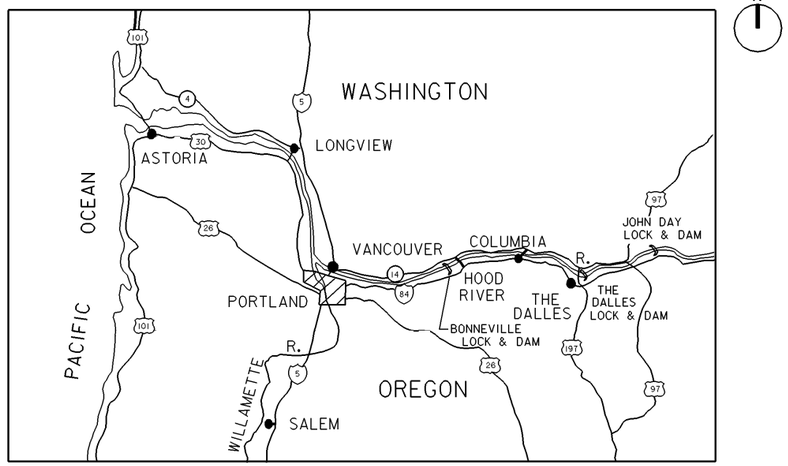


BONNEVILLE DAM PROJECT MAP



VICINITY MAP

NOT TO SCALE



LOCATION MAP

NOT TO SCALE

Symbol	Description	Date	Appr.
	10-4-07		

Submitted by: 90% DESIGN
Project Manager — Date

Recommended by: Brian Miller, P.E.
Chief, Design Section — Date

Approved by: Donna L. Street, P.E.
Chief, Eng. & Const. Div. — Date

DESIGNED BY:	DATE: Mon Day Yr
DRAWN BY:	CHECKED BY:
FILE NAME:	SOLICITATION NO. DACW-
SUBMITTED BY:	CONTRACT NO. DACW-

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS Portland, Oregon

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS WALLA WALLA, WASHINGTON

COLUMBIA RIVER OREGON AND WASHINGTON
BONNEVILLE LOCK AND DAM
WASHINGTON VISTOR CENTER ROOF

COVER SHEET AND LOCATION MAPS

Drawing Number

Sheet number: G-001

DESIGN FILE: L:\WFO\CAD\BVCR\BVCRG-001G01.DGN

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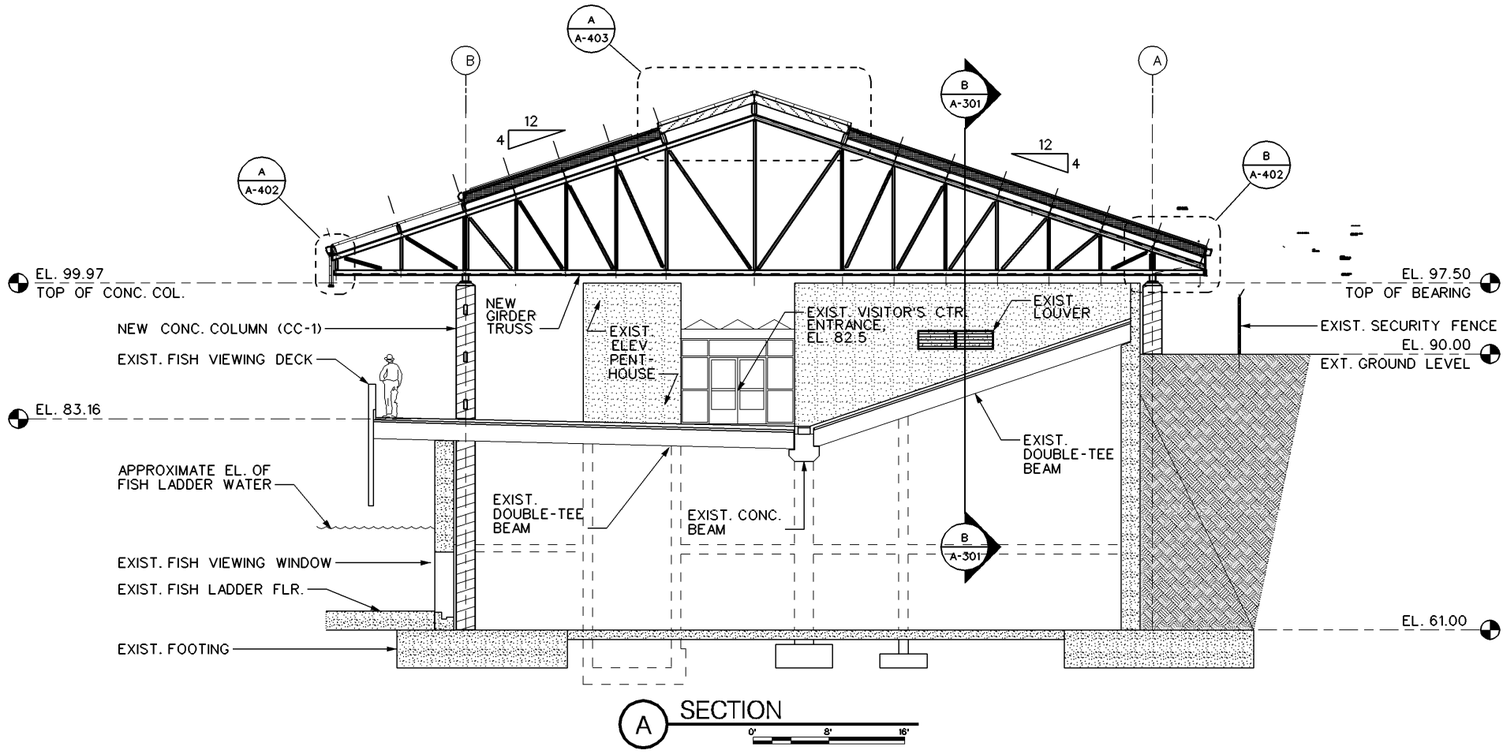

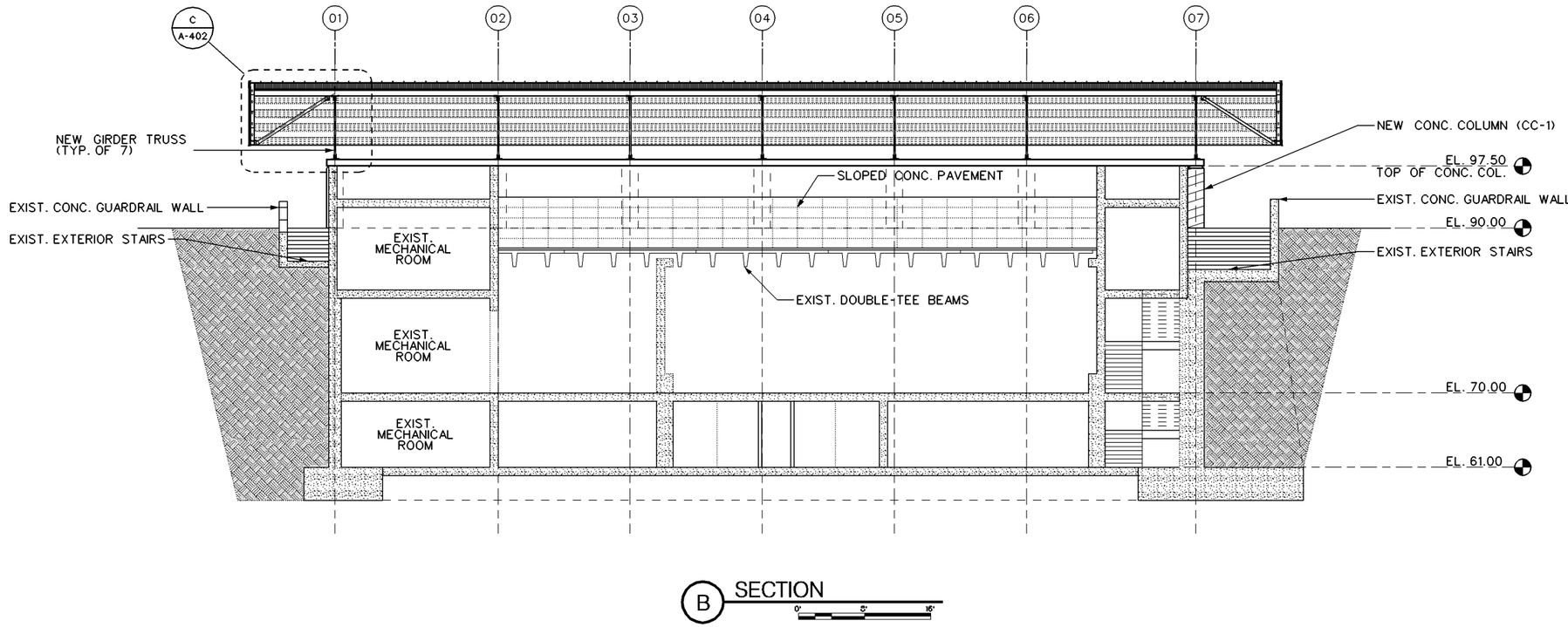

US Army Corps of Engineers
Portland District

90% DESIGN, 10-4-07

Symbol	Description	Date	Appr.

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DRAWN BY: ZAK
FILE NAME: $FILE$
CHECKED BY:
SUBMITTED BY: HOLLENBECK
CHIEF STRUCT. DES. SEC.
DATE: Mon Day Yr
SOLICITATION NO. DACW--
CONTRACT NO. DACW--

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS Portland, Oregon

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS WALLA WALLA, WASHINGTON

COLUMBIA RIVER OREGON AND WASHINGTON
BONNEVILLE LOCK AND DAM
WASHINGTON VISTOR CENTER ROOF
ROOF SECTIONS

Drawing Number
FN
Sheet number:
A-301

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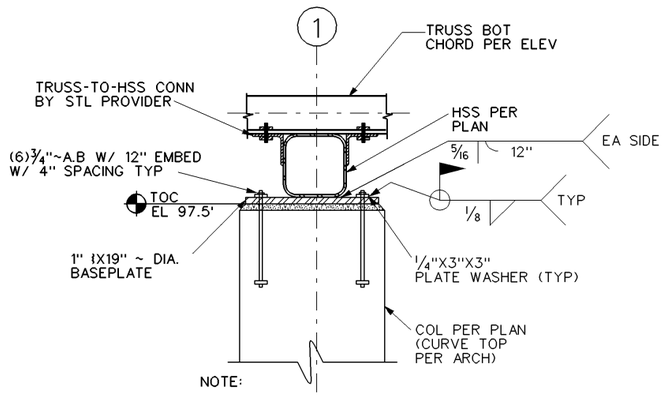
SHEET NAME: $SHEETN$



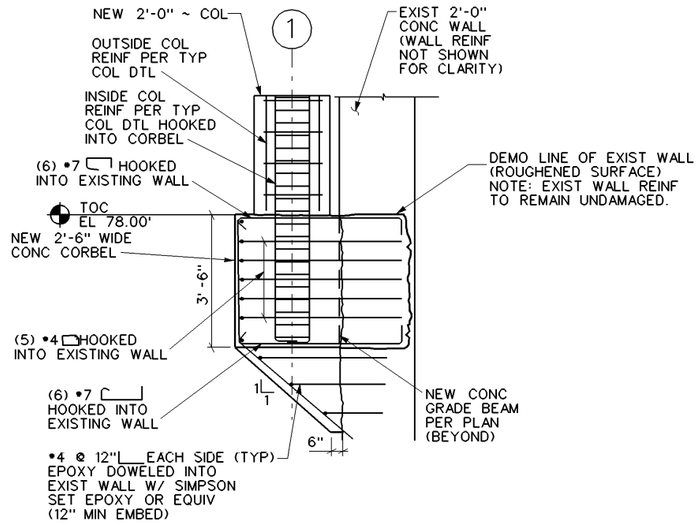
NOTE:

A. DESIGN TRUSS-TO-HSS CONN FOR THE FOLLOWING ASD FORCES:

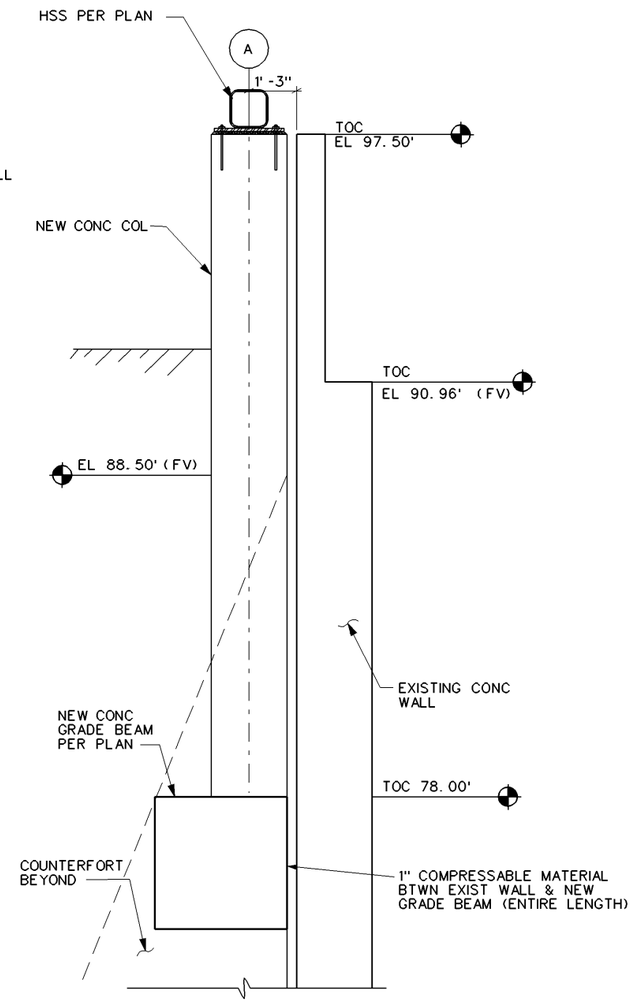
VY= 80 KPS ↓ (MAX) / -35 KIPS (MIN) ↑
H= 18.6 KIPS ↔ (ALONG THE TRUSS)

B. PROVIDE 1" PAD W/ NON-METALLIC NON-SHRINK GROUT.

REF S-102 (1) DETAIL 0" 8" 16"



REF S-101 (2) DETAIL 0" 8" 16"



REF S-101 (3) DETAIL 0" 8" 16"

NOTES:

A. CONTRACTOR HAS OPTION TO PROVIDE CLOSED HOOPS OR STIRRUPS W/ SEISMIC HOOKS @ EACH END AND CROSS TIES (ALT 90° END OF CROSS TIES).

B. PROVIDE HOOKS INTO SUPPORTS FOR ALL LONGITUDINAL REINFORCEMENT.

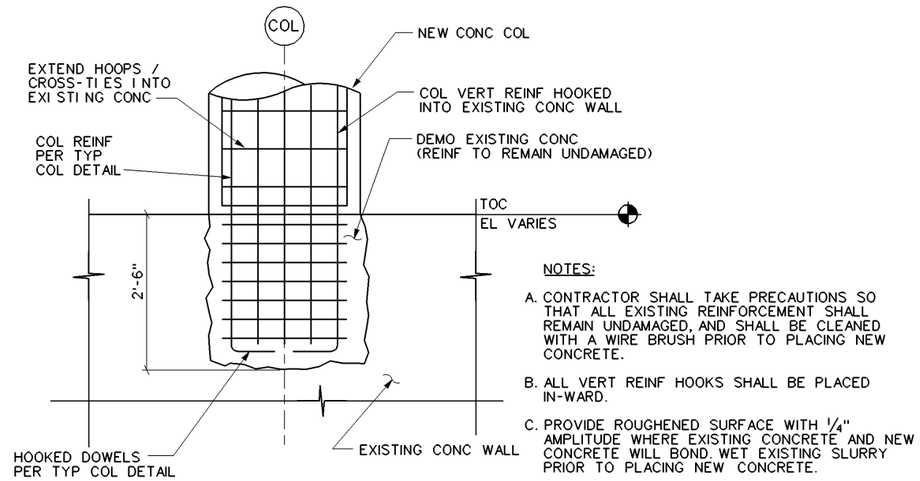
C. FIRST HOOP / CROSS TIE SHALL BE PLACED 2" FROM FACE OR SUPPORT.

D. EXTEND HOOPS / CROSS TIES INTO SUPPORTS (NOTE: MATCH SPACING IN BEAM).

E. CONTINUE HOOP / CROSS TIE THRU COLUMN - GRADE BEAM JOINT.

F. EPOXY DOWEL LONG BARS INTO EXISTING COUNTER FORTS W/ SIMPSON SET EPOXY (OR EQUIV) W/ 12" MIN EMBED.

G. PROVIDE ROUGHENED SURFACE WITH 1/4" AMPLITUDE WHERE EXISTING CONCRETE AND NEW CONCRETE WILL BOND. WET EXISTING SLURRY PRIOR TO PLACING NEW CONCRETE.



NOTES:

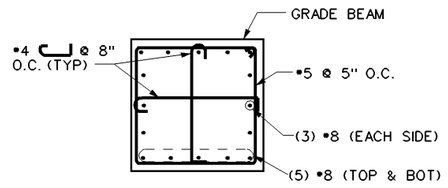
A. CONTRACTOR SHALL TAKE PRECAUTIONS SO THAT ALL EXISTING REINFORCEMENT SHALL REMAIN UNDAMAGED, AND SHALL BE CLEANED WITH A WIRE BRUSH PRIOR TO PLACING NEW CONCRETE.

B. ALL VERT REINF HOOKS SHALL BE PLACED IN-WARD.

C. PROVIDE ROUGHENED SURFACE WITH 1/4" AMPLITUDE WHERE EXISTING CONCRETE AND NEW CONCRETE WILL BOND. WET EXISTING SLURRY PRIOR TO PLACING NEW CONCRETE.

(4) COLUMN BASE DETAIL

GRIDS B1, B2, & B7



(5) TYP GRADE BEAM DETAIL

US Army Corps of Engineers
Portland District

90% DESIGN, 10-4-07

Symbol | Description | Date | Appr.

DESIGNED BY: A. HORTUA
DRAWN BY: J. MAXWELL
CHECKED BY: J. CONNOR
FILE NAME: $FILEN$
SOLICITATION NO.: DACW--
CONTRACT NO.: DACW--
SUBMITTED BY:
DATE: Mon Day Yr

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS Portland, Oregon

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COLUMBIA RIVER OREGON AND WASHINGTON
BONNEVILLE LOCK AND DAM
WASHINGTON VISITOR CENTER ROOF
CONCRETE SECTION AND DETAILS II

Drawing Number

Sheet number: S-301

DESIGN FILE: L:\WFO\CAD\BVCR\BVCRS-301.DGN

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