US Army Corps
of Engineers
Portland District

THE DALLES LOCK AND DAM
ICE AND TRASH SLUICEWAY
SPRAY CONTROL

THIS PROJECT WAS DESIGNED BY THE PORTLAND DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS OR SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER 1110-1-8152.

MARK J. SAWKA, P.E.
CHIEF, DESIGN BRANCH

ELIZABETH R. WELLS, P.E.
CHIEF, ENGINEERING & CONSTRUCTION DIVISION

AARON L. DORF
COLONEL, CORPS OF ENGINEERS
DISTRICT COMMANDER

DATE: _____

SOLICITATION NUMBER: W9127N19B0031

DISCIPLINE	FILE NAME		DRAWING TITLES	SHEET ACTION No.
GENERAL				
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NOTES:

SHEET ACTION NUMBER IDENTIFICATION KEY SHALL BE AS SHOWN BELOW:

1. DENOTES FIO DRAWING IS OBSOLETE AT THE COMPLETION OF THIS CONTRACT.
2. DENOTES DRAWING SHALL BE UPDATED AT THE COMPLETION OF THIS CONTRACT BY THE CONTRACTOR.
3. DENOTES FIO DRAWING WILL BE SUPERCEDED BY THE FOLLOWING DRAWINGS AT THE COMPLETION OF THIS CONTRACT.
4. DENOTES FIO DRAWING WAS REFERENCED BY THE FOLLOWING CONTRACT DRAWINGS.
5. DENOTES FIO DRAWING IS FOR REFERENCE ONLY.
6. DENOTES ONLY CONTRACTOR REDLINE MARK-UPS ARE REQUIRED.

US Army Corps of Engineers
PORTLAND DISTRICT

MARK	DESCRIPTION	DATE	APPR.
		DATE 01	
		DATE 02	
		DATE 03	
		DATE 04	
		DATE 05	
		DATE 06	
		DATE 07	

U.S. ARMY CORPS OF ENGINEERS
PORTLAND DISTRICT
PORTLAND, OREGON

DESIGNED BY: CARL M. HARRIS, P.E.
DRAWN BY: J. LIND
SUBMITTED BY: MATTHEW D. HANSON, P.E.
PLOT SCALE: 1:1
SIZE: ANSI D
DATE:
CHECKED BY: J. ROBERTS
SOLICITATION NO.: W9127N19B0031
CONTRACT NO.:
PLOT DATE:
DRAWING NUMBER: G-002
FILE NAME: DDD1.105_G-002XXX.dgn

THE DALLES LOCK AND DAM
ICE AND TRASH SLUICEWAY
SPRAY CONTROL

DRAWING INDEX

SHEET IDENTIFICATION
G-002

THE FOLLOWING ABBREVIATIONS MAY BE USED ON THE DRAWINGS IN THIS VOLUME

ANCH.	= ANCHOR
A.B.	= ANCHOR BOLT
AC	= ASPHALT CONCRETE
APPROX.	= APPROXIMATE
ARCH.	= ARCHITECTURAL
ARV	= AIR RELEASE VALVE
AWS	= ATTRACTION WATER SUPPLY
B.C.	= BOLT CENTERS
B.F.	= BOTTOM FACE
BG	= BACK GOUGE
B.H.C.	= BOLT HOLE CIRCLE
B.L.	= BOTTOM LAYER
BLDG.	= BUILDING
B.O.	= BOTTOM OF
BRG	= BEARING
B TO B	= BACK TO BACK
C	= CHANNEL
C TO C	= CENTER TO CENTER
C/E JT	= CONTRACTION JOINT/EXPANSION JOINT
CBORE	= COUNTERBORE
CF	= CUBIC FEET
CI	= CAST IRON
C.J.	= CONSTRUCTION JOINT
CJP	= COMPLETE JOINT PENETRATION
℄	= CENTERLINE
CL2	= CHLORINE
CLR	= CLEAR
CONC.	= CONCRETE
CONN	= CONNECTION
CONT	= CONTINUOUS
CONT. JT.	= CONTRACTION JOINT
C.M.P.	= CORRUGATED METAL PIPE
C.M.U.	= CONCRETE MASONRY UNIT
CP	= COMPLETE PENETRATION
CRES	= CORROSION RESISTING STEEL
CSP	= CORNER SUPPORT PIECE
CSK	= COUNTERSINK
C.T.C.	= CENTER TO CENTER
CU	= COPPER
DET.	= DETAIL
D&G	= DRILL & GROUT
DIA.	= DIAMETER
DI	= DUCTILE IRON
DIP	= DUCTILE IRON PIPE
D/S	= DOWNSTREAM
DWG	= DRAWING
DWL'S	= DOWELS
EA.	= EACH
EF	= EACH FACE
E.L.	= EACH LAYER
EL.	= ELEVATION
E.J.	= EXPANSION JOINT
EQ. SP.	= EQUALLY SPACED
E.W.	= EACH WAY
EXAM.	= EXAMINATION
EXIST.	= EXISTING
F.B.	= FLAT BAR
F.D.	= FLOOR DRAIN
F.F.	= FAR FACE
FG	= FINISH GRADE
F.H.	= FLAT HEAD
FLG	= FLANGE
FT.	= FOOT, FEET
F.W.	= FLAT WASHER
FWS	= FACILITY WATER SUPPLY
GA.	= GAUGE
GAC	= GRANULATED ACTIVATED CARBON
GALV.	= GALVANIZED
GV	= GATE VALVE
H	= HORIZONTAL
H.D.	= HEAVY DUTY
H.M.	= HOLLOW METAL
HSS	= HOLLOW STRUCTURAL SECTION/SHAPE
HOR.	= HORIZONTAL
ID	= INSIDE DIAMETER
IE	= INVERT ELEVATION
IF	= INSIDE FACE
I.L.	= INSIDE LAYER
IN.	= INCH, INCHES
INFO	= INFORMATION
IS	= INSIDE
ISO JT	= ISOLATION JOINT
IWRC	= INDEPENDENT WIRE ROPE CORE
JFR	= JUVENILE FISH RETURN
JT.	= JOINT
KSI	= KIPS PER SQUARE INCH
L	= ANGLE
LBF	= POUNDS FORCE
LF.	= LINEAR FEET
LG.	= LONG
LT	= LEFT
LTH	= LENGTH
LOC.	= LOCATION
LONG.	= LONGITUDINAL
LP	= LOW POINT
MAX.	= MAXIMUM
MIN	= MINIMUM
M.B.	= MACHINE BOLT
MECH.	= MECHANICAL
MK	= MARK
MSE	= MECHANICALLY STABILIZED EARTH
NAT.	= NATURAL
N.C.	= NO CHAMFER
NF	= NEAR FACE
NO.	= NUMBER
NOM	= NOMINAL
NPS	= NOMINAL PIPE SIZE
NPT	= NATIONAL PIPE THREAD
NTS	= NOT TO SCALE
O.A.L.	= OVERALL LENGTH
O.C.	= ON CENTER
O.D.	= OUTSIDE DIAMETER
OF	= OUTSIDE FACE
O.L.	= OUTSIDE LAYER
OPP	= OPPOSITE
OS	= OUTSIDE
OSAY	= OUTSIDE STEM AND YOKE (VALVES)
O TO O	= OUT TO OUT
PC	= POINT OF CURVATURE
PCF	= POUNDS PER CUBIC FOOT
PERF	= PERFORATED
PL	= PLATE
PLF	= POUNDS PER LINEAR FOOT
P/N	= PART NUMBER
PRE-FAB	= PREVIOUSLY FABRICATED
PSF	= POUNDS PER SQUARE FOOT
PSI	= POUNDS PER SQUARE INCH
PSIG	= POUNDS PER SQUARE INCH, GAGE
PSPD	= POST SORT POOL DRAIN
PT	= POINT OF TANGENCY (CIVIL SHEETS)
PNT	= POINT
PTFE	= POLYTETRAFLOUROETHYLENE (TEFLON)
PVC	= POLYVINYL CHLORIDE
PVI	= POINT OF VERTICAL INTERSECTION
RAD.	= RADIUS
R.H.	= ROUND HEAD
REF	= REFERENCE
REINF.	= REINFORCEMENT
REQ'D	= REQUIRED
R.O.	= ROUGH OPENING
RT	= RIGHT
STR	= STRUCTURAL
S.B.	= STRUCTURAL BOLT
SCH	= SCHEDULE
SHT	= SHEET
SIM	= SIMILAR
STAG. SPL.	= STAGGER SPLICE
STD	= STANDARD
STIR.	= STIRRUP
STL.	= STEEL
S.F.	= SQUARE FOOT
SHLDR	= SHOULDER
SPS	= SPACES
SQ	= SQUARE
S.S.	= STAINLESS STEEL
STA.	= STATION
STC	= STEEL TROWELED CONCRETE
SYM	= SYMMETRICAL
T & B	= TOP AND BOTTOM
T.B.D.	= TO BE DETERMINED
T.F.	= TOP FACE
T.J.	= TROWELED JOINT
T.L.	= TOP LAYER
T.O.	= TOP OF
TOC	= TOP OF CONCRETE
TOF	= TOP OF FOOTING
TOS	= TOP OF SLAB
TOW	= TOP OF WALL
T.S.	= TUBULAR STEEL
TYP.	= TYPICAL
UNO	= UNLESS NOTED OTHERWISE
U/S	= UPSTREAM
V	= VERTICAL
VBS	= VERTICAL BARRIER SCREEN
VC	= VERTICAL CURVE
VERT.	= VERTICAL
W/	= WITH
WL	= WATERLINE
WP	= WORK POINT
W.S.	= WATERSTOP
WSE	= WATER SURFACE ELEVATION
WCJ	= WALL CONSTRUCTION JOINT
WWF	= WELDED WIRE FABRIC

LEGEND:

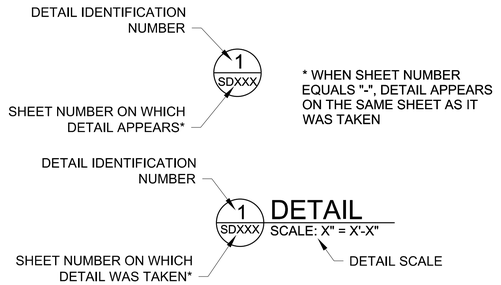
DEMOLITION

EXISTING CONCRETE

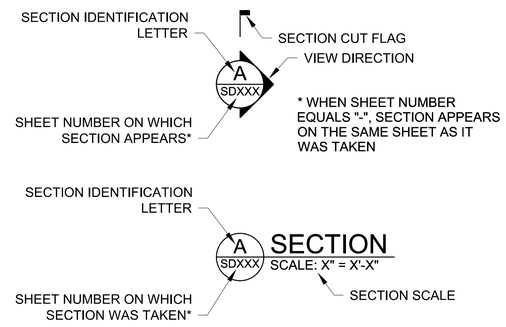
NEW CONCRETE

LEGEND

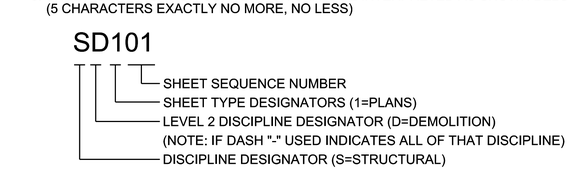
1. DETAILING CONVENTION SHALL BE INTERPRETED AS SHOWN BELOW:



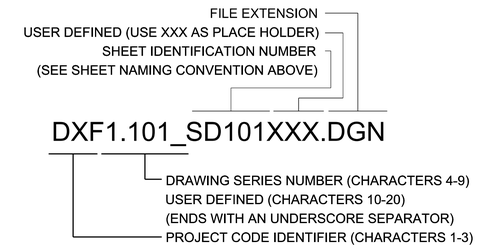
2. SECTIONING CONVENTION SHALL BE INTERPRETED AS SHOWN BELOW:



3. SHEET IDENTIFICATION CONVENTION SHALL BE INTERPRETED AS SHOWN BELOW:
(5 CHARACTERS EXACTLY NO MORE, NO LESS)



4. FILE NAME CONVENTION SHALL BE INTERPRETED AS SHOWN BELOW:



5. AREA FEATURE DESIGNATOR FOR ALL SHEETS SHALL BE AS SHOWN BELOW:

-	DENOTES GENERAL FEATURES
D	DENOTES DEMO

GENERAL NOTES

1. ALL PRE-CAST PANELS SHALL BE DESIGNED BY MANUFACTURER.
2. ALL PRE-CAST PANEL CONNECTIONS TO EXISTING STRUCTURE SHALL BE DESIGNED BY MANUFACTURER. ALL CONNECTIONS DETAILED IN THIS PACKAGE ARE FOR SUGGESTION ONLY.
3. ALL PRE-CAST PANEL AND CONNECTION DESIGN DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED AND APPROVED PRIOR TO COMMENCEMENT OF PANEL FABRICATION.
4. ALL PRE-CAST PANELS SHALL BE LATERALLY RESTRAINED AT THE EAST END AND FREE TO SLIP AT THE WEST END. PROVIDE MINIMUM ½"CLEAR FOR SLIPPAGE IN EITHER DIRECTION.
5. ALL EXPOSED STEEL SHALL BE GALVANIZED.
6. ALL EXISTING REINFORCEMENT EXPOSED DURING DEMOLITION SHALL BE COATED PER PROJECT SPECIFICATIONS.

US Army Corps of Engineers®
PORTLAND DISTRICT

MARK	DESCRIPTION	DATE	APPR.
		DATE 01/	
		DATE 06	
		DATE 05	
		DATE 04	
		DATE 03	
		DATE 02	
		DATE 01	

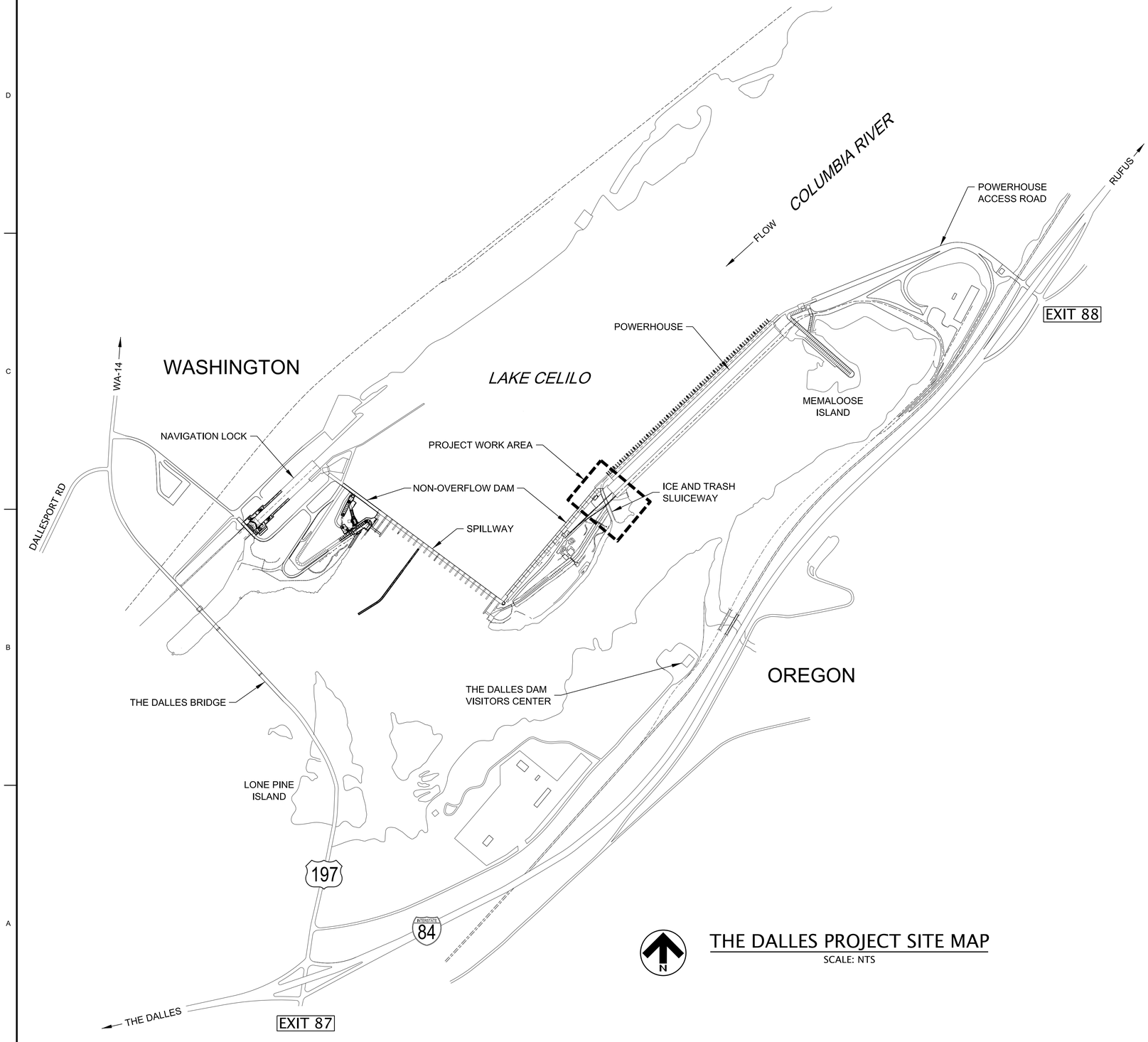
U.S. ARMY CORPS OF ENGINEERS
PORTLAND DISTRICT
PORTLAND, OREGON

DESIGNED BY: CARL M. HARRIS, P.E.
DRAWN BY: J. LIND
SUBMITTED BY: MATTHEW D. HANSON, P.E.
PLOT SCALE: 1:1
SIZE: ANSI D
DATE:
CHECKED BY: J. ROBERTS
PLOT DATE:
FILE NAME: DDD1:105_G-003XXX.dgn
SOLICITATION NO.: W9127N19B0031
CONTRACT NO.:
DRAWING NUMBER: G-003

THE DALLES LOCK AND DAM
ICE AND TRASH SLUICEWAY
SPRAY CONTROL

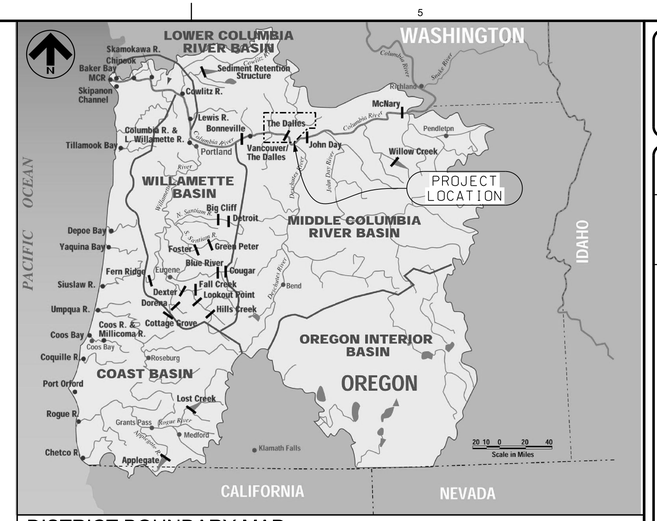
GENERAL NOTES, LEGEND, AND ABBREVIATIONS

SHEET IDENTIFICATION
G-003

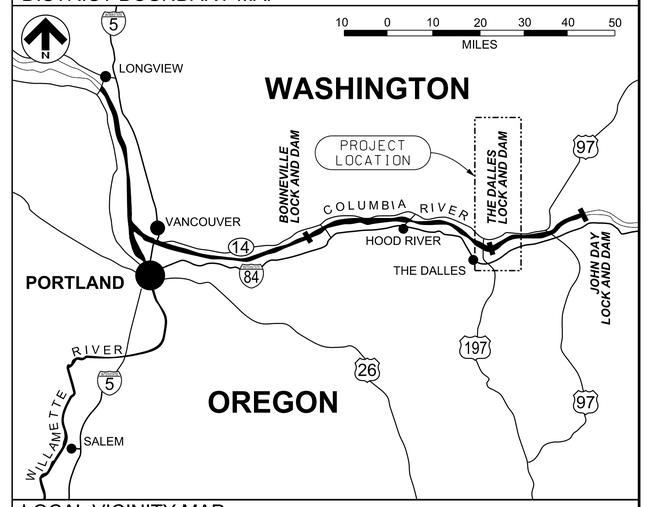


THE DALLES PROJECT SITE MAP

SCALE: NTS



DISTRICT BOUNDARY MAP



LOCAL VICINITY MAP

PROJECT PHOTO

US Army Corps of Engineers®
PORTLAND DISTRICT

DESCRIPTION	DATE	APPR.
	DATE 01	
	DATE 02	
	DATE 03	
	DATE 04	
	DATE 05	
	DATE 06	
	DATE 07	
MARK		

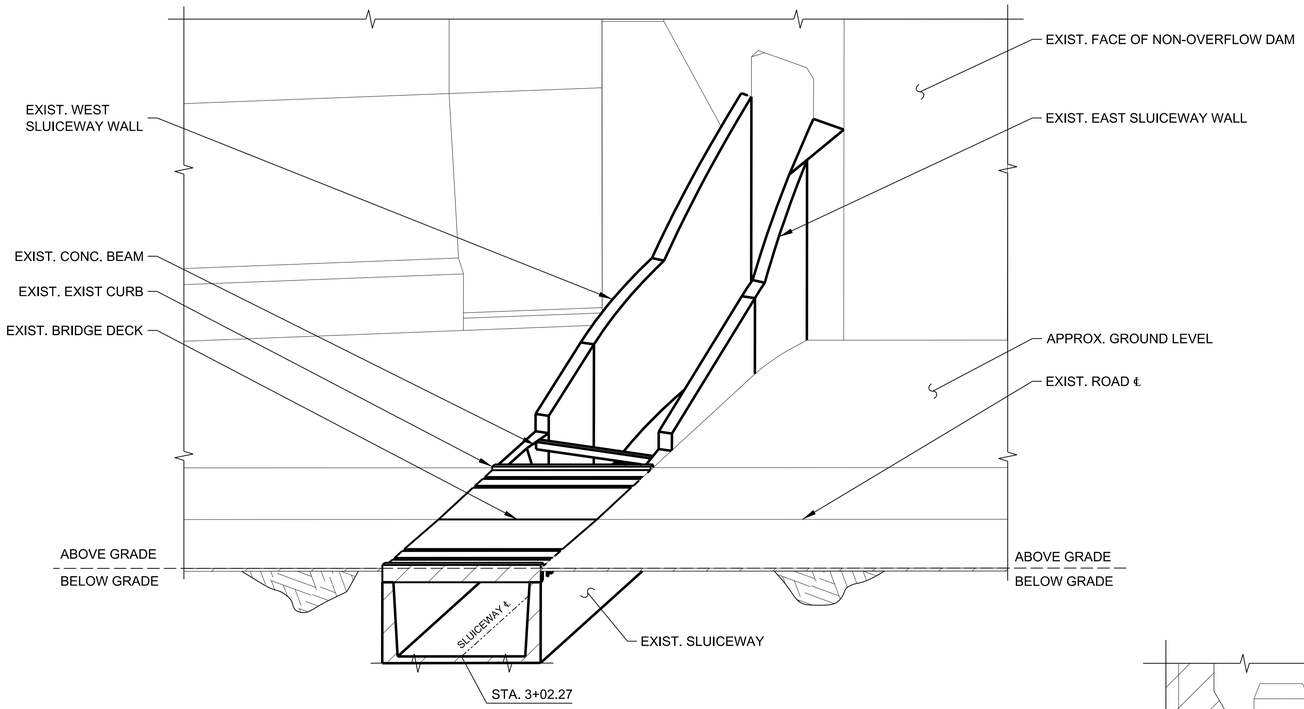
U.S. ARMY CORPS OF ENGINEERS
PORTLAND DISTRICT
PORTLAND, OREGON

DESIGNED BY: CARL M. HARRIS, P.E.	DATE:
DRAWN BY: J. LIND	CHECKED BY: J. ROBERTS
SUBMITTED BY: MATTHEW D. HANSON, P.E.	SOLICITATION NO.: W9127N19B0031
PLOT SCALE: 1:1	PLOT DATE:
SIZE: ANSI D	FILE NAME: DDD1:\105_G-101XXX.dgn
	CONTRACT NO.:
	DRAWING NUMBER: G-101

THE DALLES LOCK AND DAM ICE AND TRASH SLUICEWAY SPRAY CONTROL

DISTRICT BOUNDARY, VICINITY MAP, AND PROJECT PHOTO

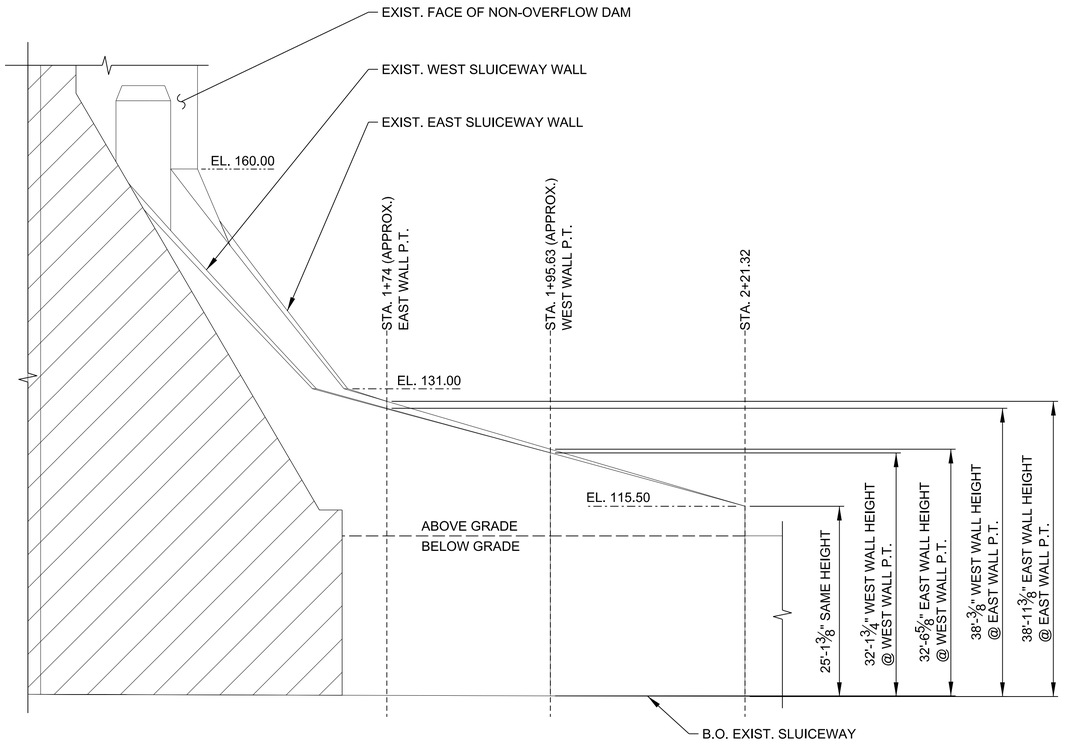
SHEET IDENTIFICATION
G-101



NOTE: NOT ALL EXISTING FEATURES SHOWN FOR CLARITY.

ISOMETRIC – SLUICEWAY EXISTING CONDITIONS

SCALE: NTS



NOTE: ILLUSTRATIVE PURPOSES ONLY. WALL HEIGHT DEVIATIONS ARE APPROX. VALUES AT EACH STATION.
DIMENSIONS TO NEAREST 1/8".

ISOMETRIC – EXISTING WALL HEIGHT DEVIATIONS

SCALE: 1" = 10'-0"

SCALE: 1"= 10'
10' 0 10'

US Army Corps of Engineers
PORTLAND DISTRICT

MARK	DASD	DESCRIPTION	DATE	APPR.

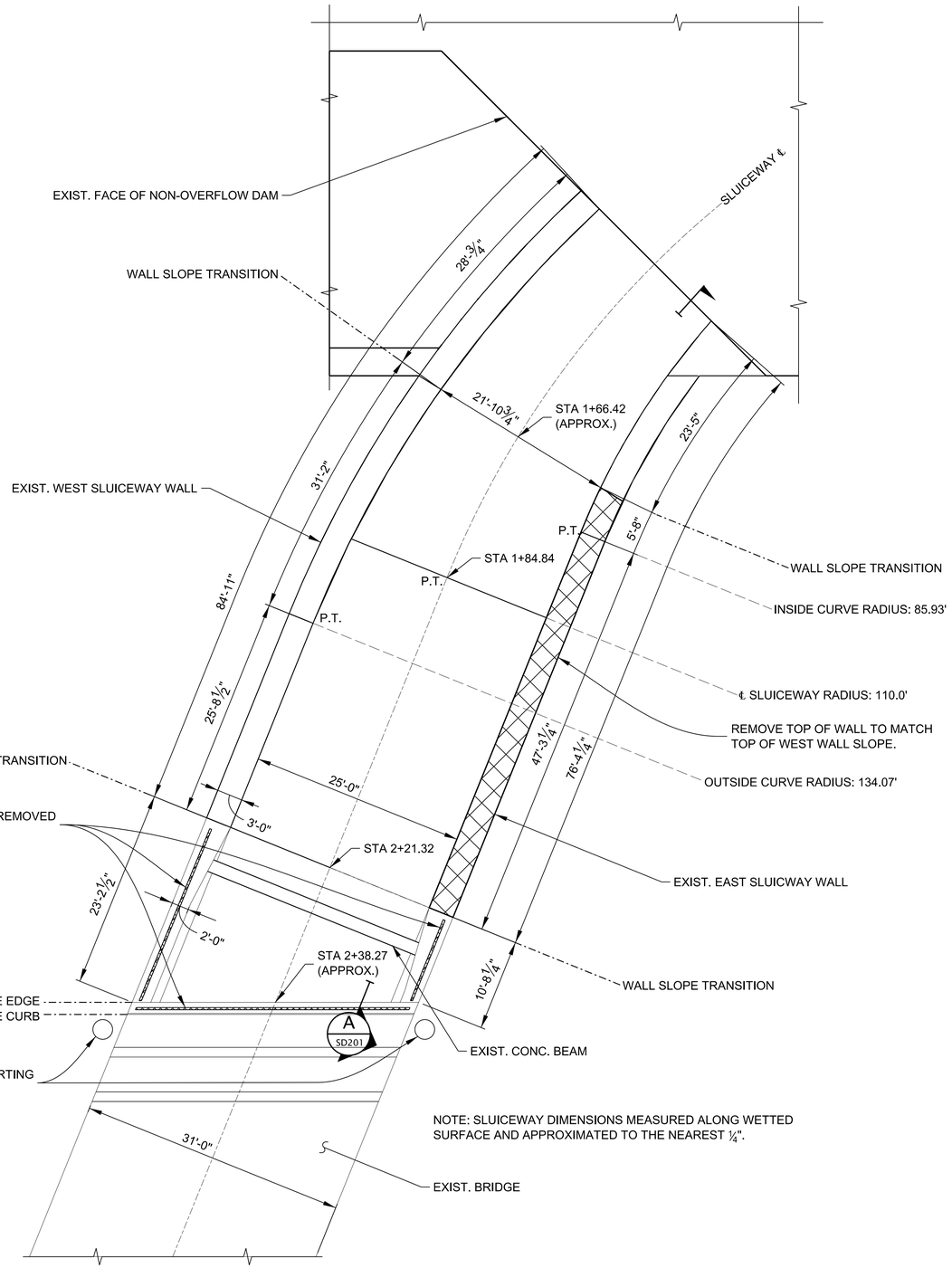
U.S. ARMY CORPS OF ENGINEERS
PORTLAND DISTRICT

DESIGNED BY: CARL M. HARRIS, P.E.
DRAWN BY: J. LIND
SUBMITTED BY: MATTHEW D. HANSON, P.E.
PLOT SCALE: 1:1
DATE:
CHECKED BY: J. ROBERTS
PLOT DATE:
SIZE: ANSI D
SOLICITATION NO.: W9127N19B0031
CONTRACT NO.:
DRAWING NUMBER: G-102
FILE NAME: DDD1:\105_G-102XXX.dgn

THE DALLES LOCK AND DAM
ICE AND TRASH SLUICEWAY
SPRAY CONTROL

SLUICEWAY ISOMETRICS
EXISTING CONDITIONS

SHEET IDENTIFICATION
G-102



PLAN – SLUICEWAY

SCALE: ⅛" = 1'-0"

SCALE: ⅛"= 1'-0"
5' 0 5' 10'

US Army Corps of Engineers
PORTLAND DISTRICT

DESCRIPTION	DATE	APPR.
	DATE 01	
	DATE 02	
	DATE 03	
	DATE 04	
	DATE 05	
	DATE 06	
	DATE 07	

MARK	DASD

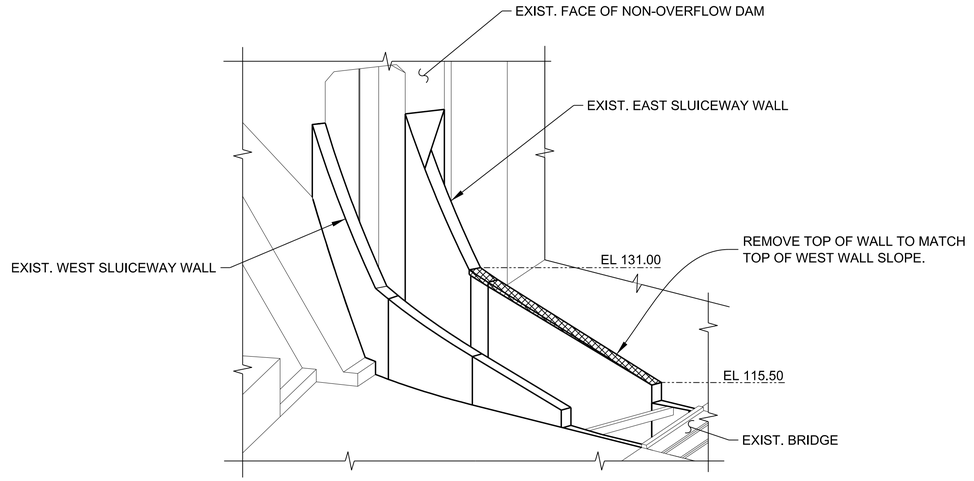
U.S. ARMY CORPS OF ENGINEERS
PORTLAND DISTRICT

DESIGNED BY: CARL M. HARRIS, P.E.
DRAWN BY: J. LIND
SUBMITTED BY: MATTHEW D. HANSON, P.E.
PLOT SCALE: 1:1
SITE: ANSI D
DATE:
CHECKED BY: J. ROBERTS
SOLICITATION NO.: W9127N19B0031
CONTRACT NO.:
DRAWING NUMBER: SD101
PLOT DATE:
FILE NAME: D:\D\1-105_SD101XXX.dgn

THE DALLES LOCK AND DAM
ICE AND TRASH SLUICEWAY
SPRAY CONTROL

DEMOLITION PLAN

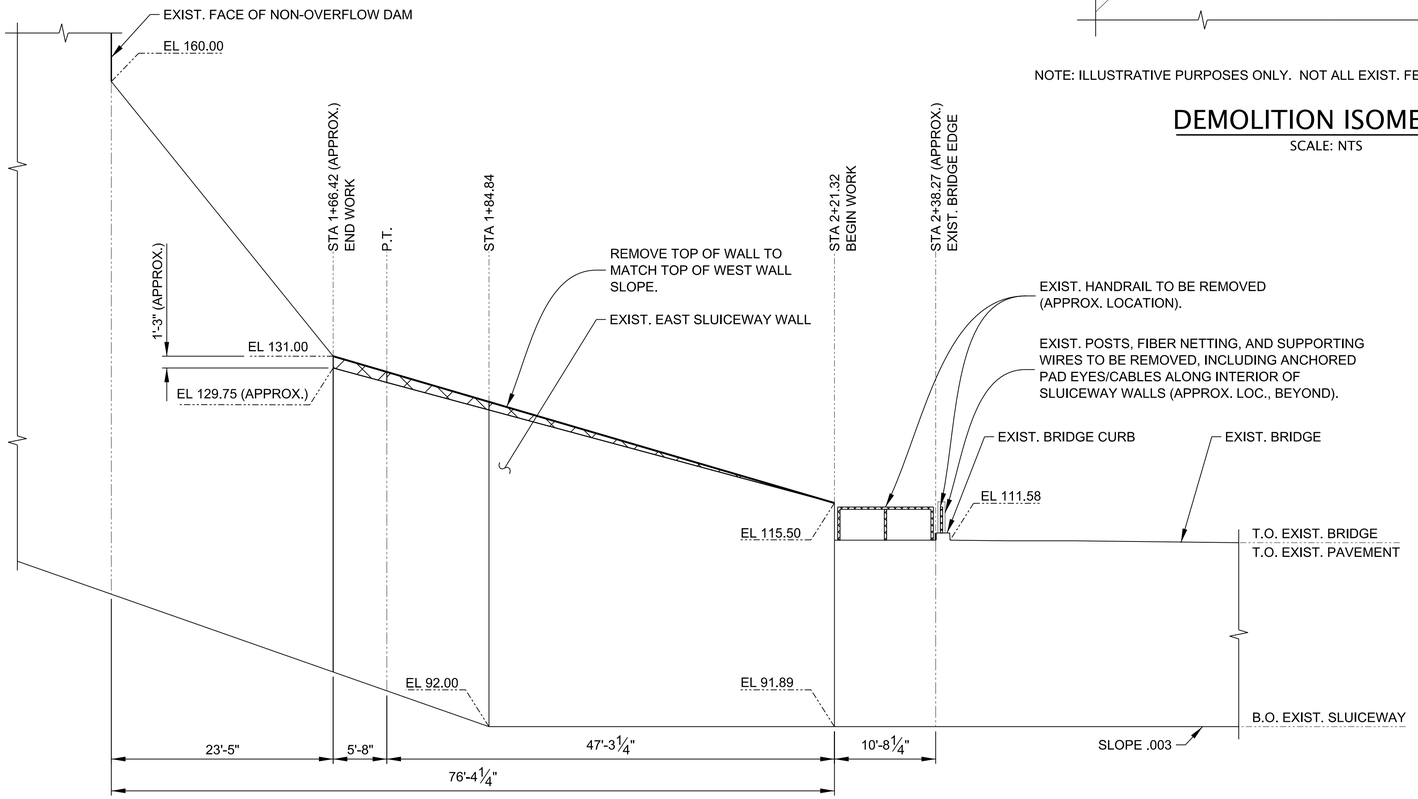
SHEET IDENTIFICATION
SD101



NOTE: ILLUSTRATIVE PURPOSES ONLY. NOT ALL EXIST. FEATURES SHOWN FOR CLARITY.

DEMOLITION ISOMETRIC

SCALE: NTS



NOTE: DEMOLITION VALUES ARE APPROX. CONTRACTOR SHALL FIELD VERIFY.

A SD101 DEMOLITION – DEVELOPED ELEVATION EAST WALL

SCALE: ⅛" = 1'-0"

SCALE: ⅛"= 1'-0"
5' 0 5' 10'

US Army Corps of Engineers
PORTLAND DISTRICT

MARK	DESCRIPTION	DATE	APPR.
DASD			

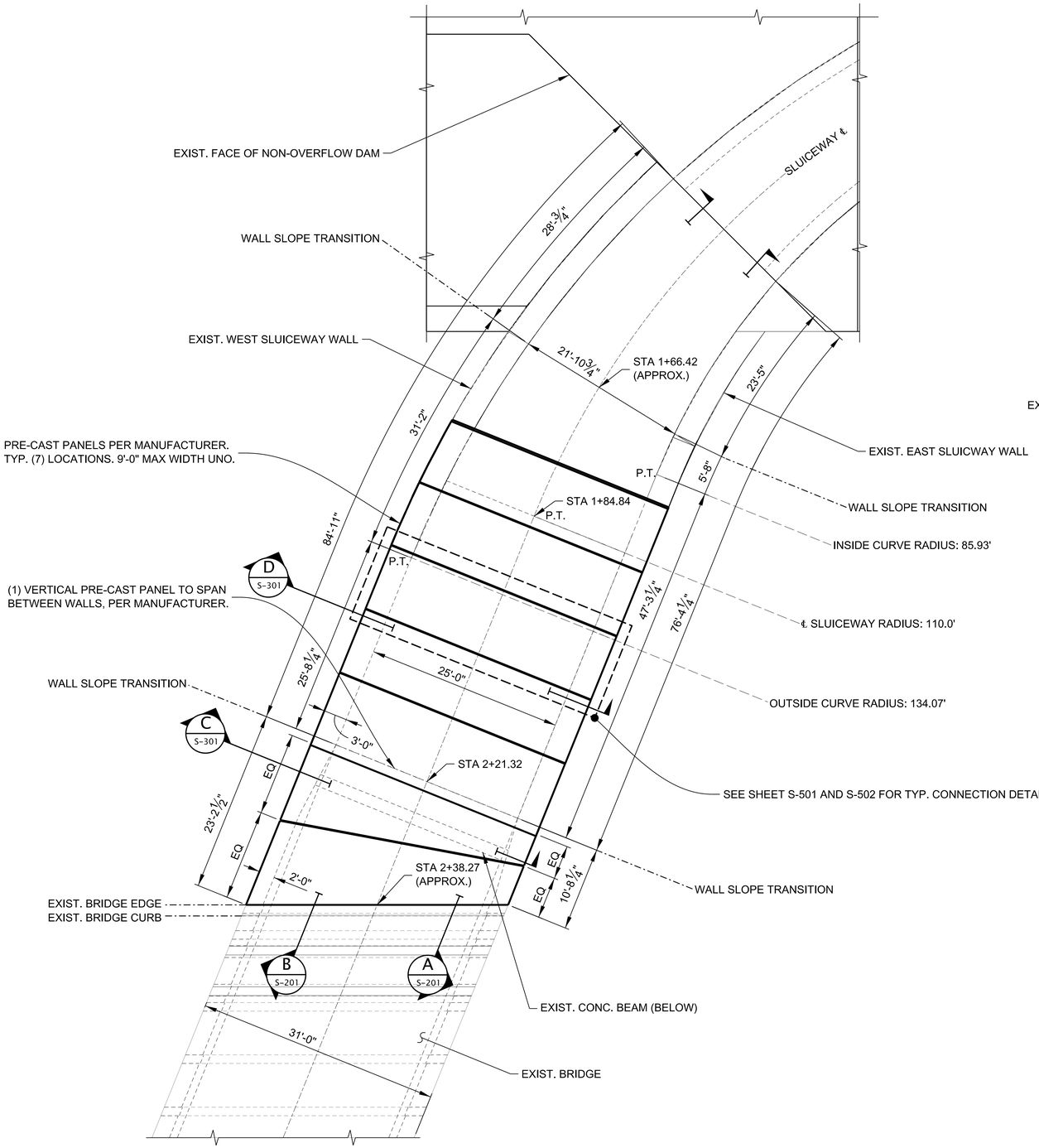
U.S. ARMY CORPS OF ENGINEERS
PORTLAND DISTRICT

DESIGNED BY: CARL M. HARRIS, P.E.
DRAWN BY: J. LIND
CHECKED BY: J. ROBERTS
SUBMITTED BY: MATTHEW D. HANSON, P.E.
PLOT SCALE: 1:1
PLOT DATE:
DATE:
SOLICITATION NO.: W9127N19B0031
CONTRACT NO.:
DRAWING NUMBER: SD201
SIZE: ANSI D
FILE NAME: DDD1105_SD201XXX.dgn

THE DALLES LOCK AND DAM
ICE AND TRASH SLUICEWAY
SPRAY CONTROL

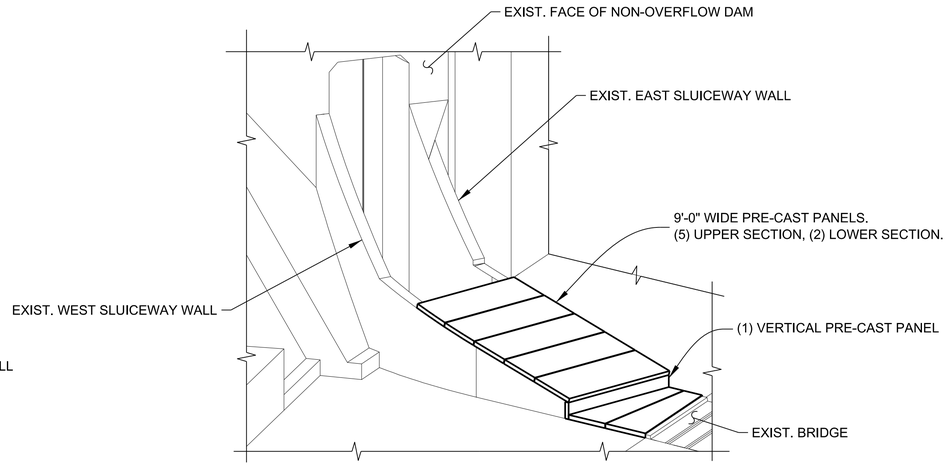
DEMOLITION
DEVELOPED EAST WALL ELEVATION

SHEET IDENTIFICATION
SD201



PLAN – SLUICEWAY PRE-CAST PANELS

SCALE: ⅛" = 1'-0"



NOTE: ILLUSTRATIVE PURPOSES ONLY.

SLUICEWAY – PRE-CAST PANELS ISOMETRIC

SCALE: NTS

NOTES:

1. PANELS WEIGHT NOT TO EXCEED 48,000 LBS.
2. SLUICEWAY DIMENSIONS MEASURED ALONG WETTED SURFACE AND APPROXIMATED TO THE NEAREST ¼".

SCALE: ⅛"= 1'-0"
5' 0 5' 10'

US Army Corps of Engineers
PORTLAND DISTRICT

DATE	DESCRIPTION	DASD	MARK	APPR.
DATE 01				
DATE 02				
DATE 03				
DATE 04				
DATE 05				
DATE 06				
DATE 07				

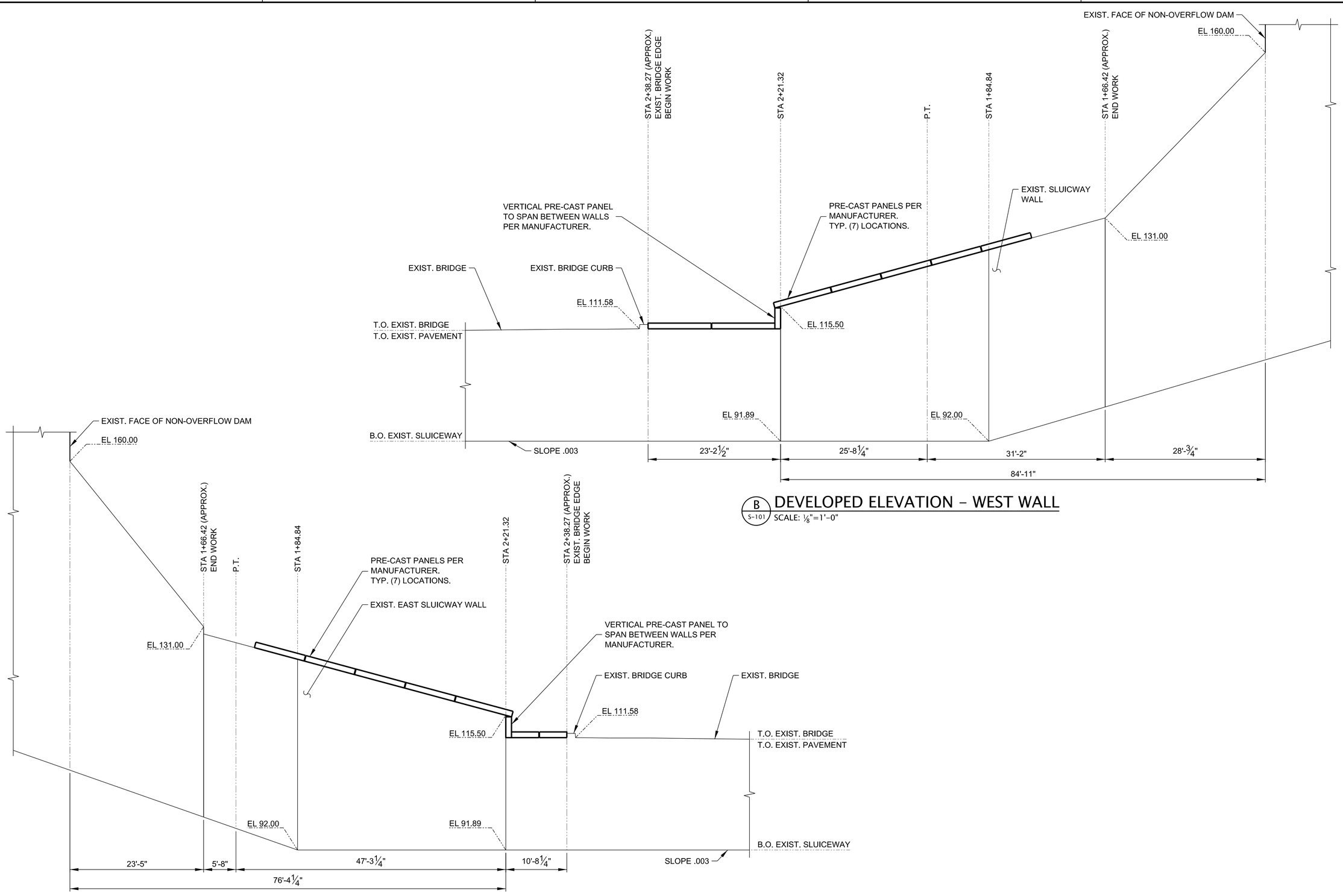
U.S. ARMY CORPS OF ENGINEERS
PORTLAND DISTRICT

DESIGNED BY: CARL M. HARRIS, P.E.
DRAWN BY: J. LIND
CHECKED BY: J. ROBERTS
SUBMITTED BY: MATTHEW D. HANSON, P.E.
DATE:
PLOT SCALE: 1:1
PLOT DATE:
SIZE: ANSI D
SOLICITATION NO.: W9127N19B0031
CONTRACT NO.:
DRAWING NUMBER: S-101
FILE NAME: DDD1.105_S-101XXX.dgn

THE DALLES LOCK AND DAM
ICE AND TRASH SLUICEWAY
SPRAY CONTROL

SLUICEWAY PLAN
PANEL LAYOUT AND ISOMETRIC

SHEET IDENTIFICATION
S-101



B S-101 DEVELOPED ELEVATION – WEST WALL
SCALE: ⅛"=1'-0"

A S-101 DEVELOPED ELEVATION – EAST WALL
SCALE: ⅛"=1'-0"

SCALE: ⅛"= 1'-0"
5' 0 5' 10'

US Army Corps of Engineers
PORTLAND DISTRICT

APPR.	DATE	DESCRIPTION	DASD MARK

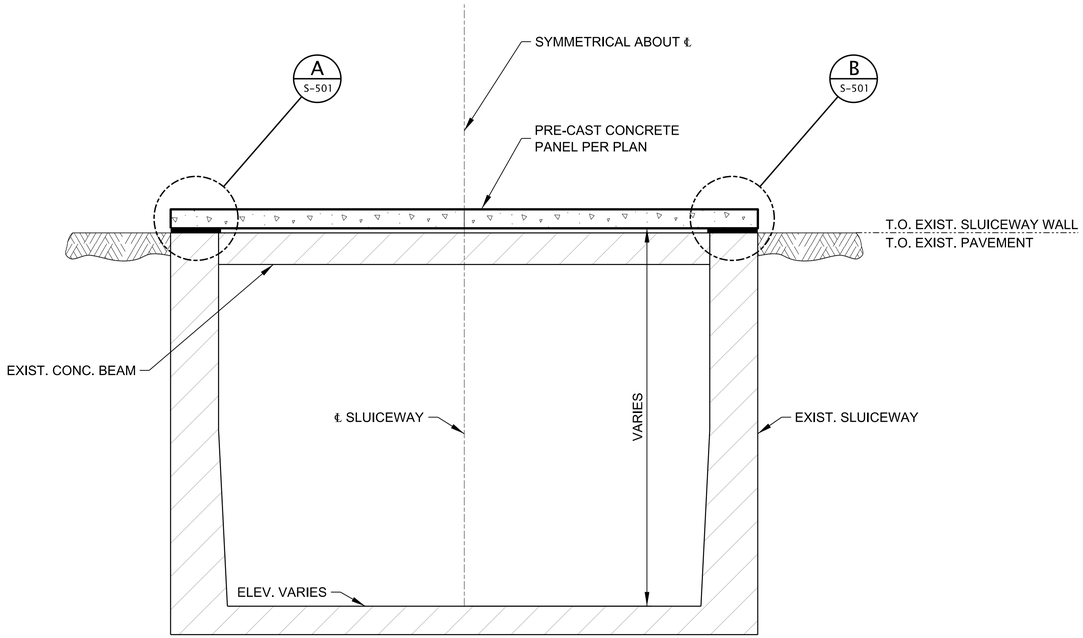
U.S. ARMY CORPS OF ENGINEERS
PORTLAND DISTRICT

DESIGNED BY: CARL M. HARRIS, P.E.
DRAWN BY: J. LIND
CHECKED BY: J. ROBERTS
SUBMITTED BY: MATTHEW D. HANSON, P.E.
PLOT SCALE: 1:1
PLOT DATE:
SIZE: ANSI D
FILE NAME: DDD:\105_S-201XXX.dgn
DRAWING NUMBER: S-201
SOLICITATION NO.: W912N719B0031
CONTRACT NO.:
DATE:

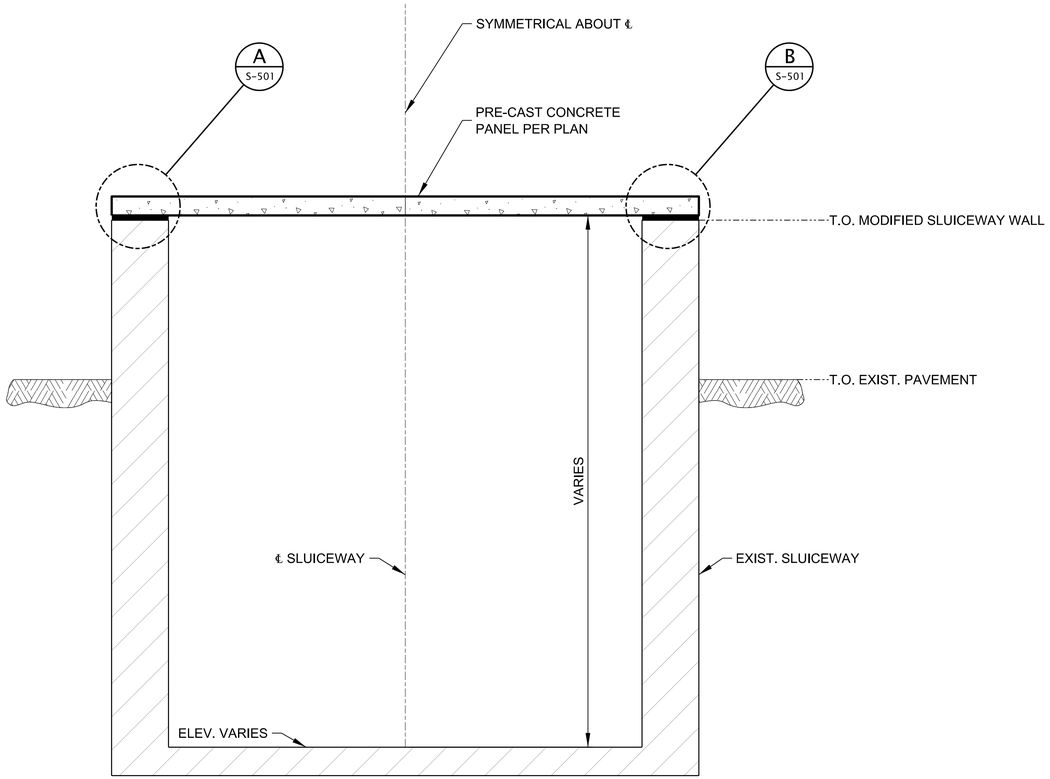
THE DALLES LOCK AND DAM
ICE AND TRASH SLUICEWAY
SPRAY CONTROL

SLUICEWAY
DEVELOPED ELEVATIONS

SHEET IDENTIFICATION
S-201



C S-101 SECTION – SLUICEWAY
SCALE: ¼"=1'-0"



D S-101 SECTION – SLUICEWAY
SCALE: ¼"=1'-0"

NOTES:

1. EXIST. SLUICEWAY DIMENSIONS PER PLAN.
2. CONTRACTOR TO ENSURE MIN. 1½" CLEAR BETWEEN EXIST. CONC. BEAM AND PRE-CAST PANEL.

SCALE: ¼"= 1'-0"
12" 0 5'

US Army Corps of Engineers
PORTLAND DISTRICT

MARK	DASD	DESCRIPTION	DATE	APPR.

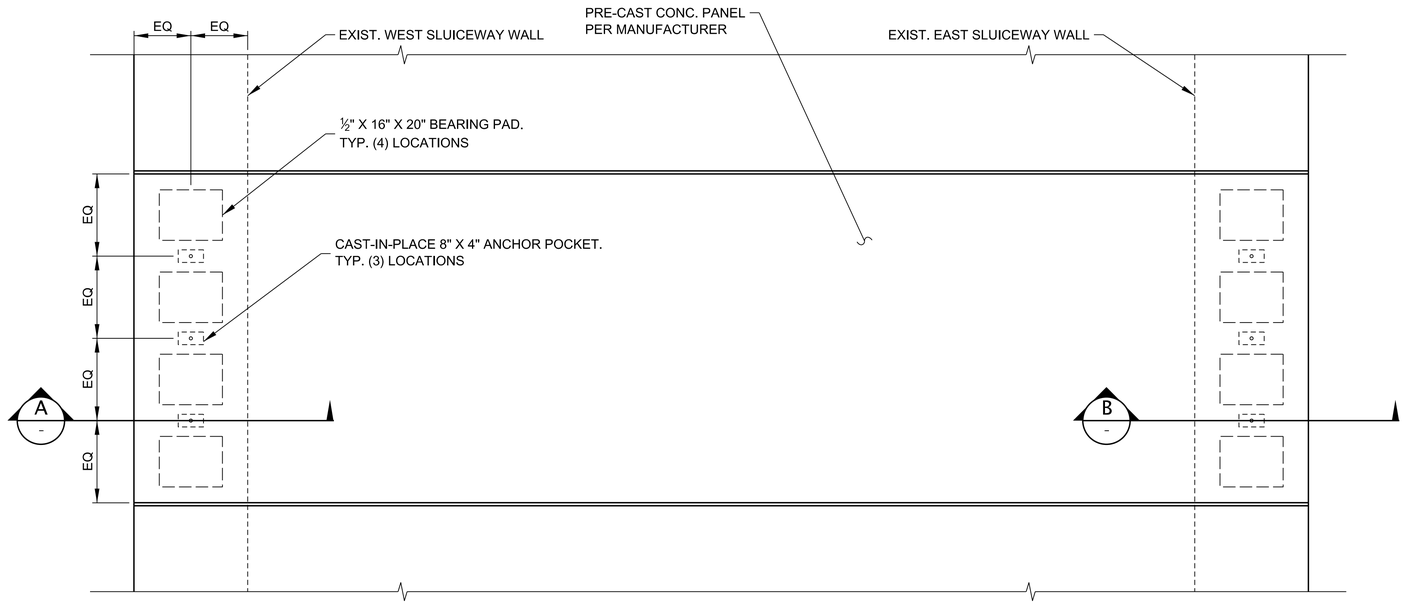
U.S. ARMY CORPS OF ENGINEERS
PORTLAND DISTRICT

DESIGNED BY: CARL M. HARRIS, P.E.
DRAWN BY: J. LIND
CHECKED BY: J. ROBERTS
SUBMITTED BY: MATTHEW D. HANSON, P.E.
PLOT SCALE: 1:1
PLOT DATE:
SIZE: ANSI D
DATE:
SOLICITATION NO.: W9127N19B0031
CONTRACT NO.:
DRAWING NUMBER: S-301
FILE NAME: DDD1:105_S-301XXX.dgn

THE DALLES LOCK AND DAM
ICE AND TRASH SLUICEWAY
SPRAY CONTROL

SLUICEWAY TRANSVERSE SECTIONS

SHEET IDENTIFICATION
S-301

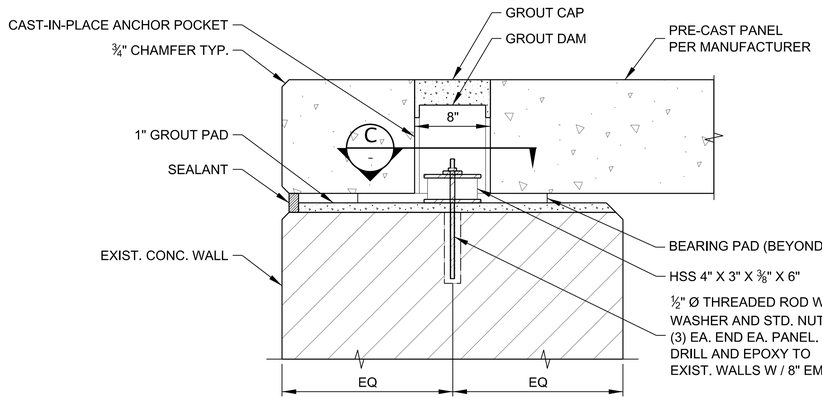


SCALE: 6"= 1'-0"
0 1" 2" 3" 6"

SCALE: 1½"= 1'-0"
12" 9" 6" 3" 0 1'

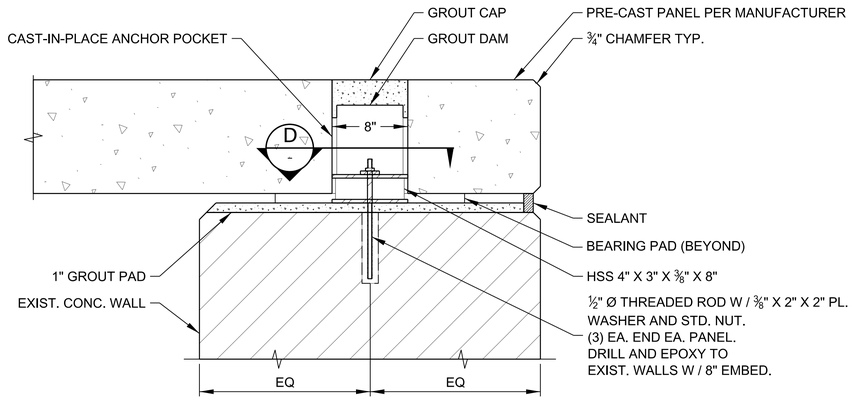
TYPICAL PANEL CONNECTION LAYOUT

SCALE: 1½"=1'-0"



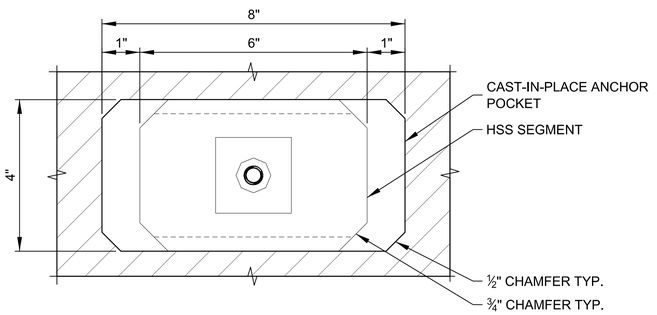
A SLIP CONNECTION

SCALE: 1½"=1'-0"



B RESTRAINED CONNECTION

SCALE: 1½"=1'-0"

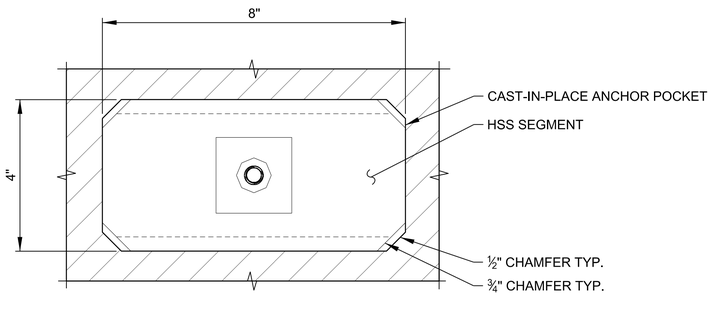


C SECTION

SCALE: 6"=1'-0"

NOTES:

1. ALL DETAILED CONNECTIONS ARE RECOMMENDATIONS ONLY. ALL CONNECTIONS SHALL BE DESIGNED BY THE PRE-CAST PANEL MANUFACTURER AND SUBMITTED FOR GOVERNMENT APPROVAL.
2. RECOMMENDED CONNECTION DETAILING FOR VERTICAL PRE-CAST PANEL AT WALL SLOPE TRANSITION IS NOT SHOWN OR NOTED IN THIS PACKAGE.
3. RECOMMENDED CONNECTION DETAILING FOR LOWER HORIZONTAL TRAPEZOIDAL PRE-CAST PANELS (2 LOCATIONS) IS NOT SHOWN OR NOTED IN THIS PACKAGE.
4. ALL STEEL CONNECTION COMPONENTS SHALL BE HOT-DIP-GALVANIZED.
5. IT IS ANTICIPATED THAT THE ANCHOR RODS AND HSS SEGMENTS WILL BE INSTALLED AFTER THE PANEL IS SET IN PLACE.



D SECTION

SCALE: 6"=1'-0"

US Army Corps of Engineers
PORTLAND DISTRICT

MARK	DESCRIPTION	DATE	APPR.
DASD			

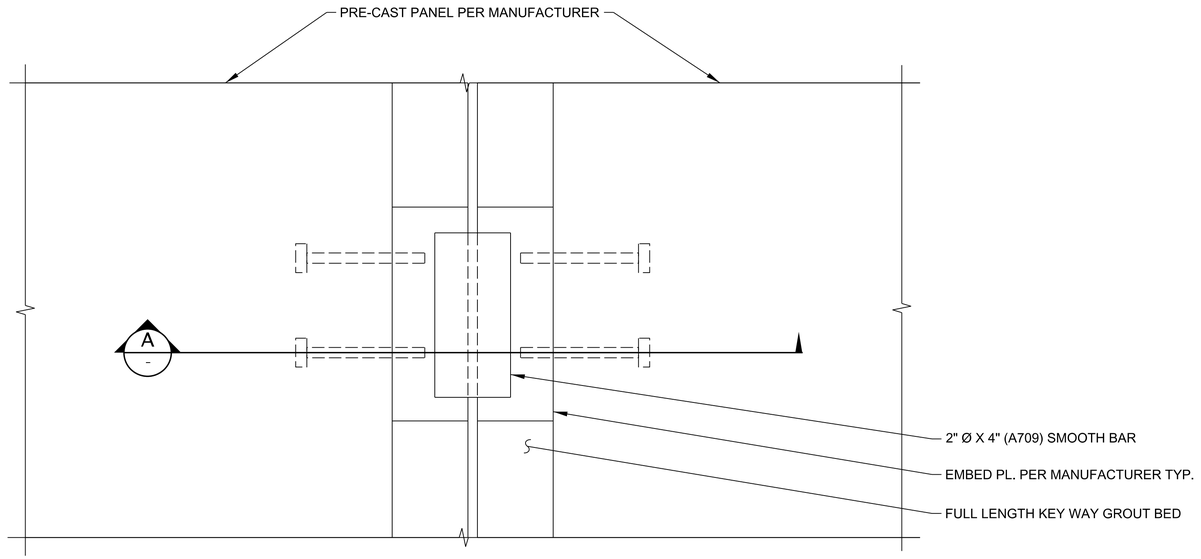
DESIGNED BY: CARL M. HARRIS, P.E.
DRAWN BY: J. LIND
SUBMITTED BY: MATTHEW D. HANSON, P.E.
PLOT SCALE: 1:1
PLOT DATE:
DATE:
CHECKED BY: J. ROBERTS
SOLICITATION NO.: W9127N19B0031
CONTRACT NO.:
DRAWING NUMBER: S-501
FILE NAME: DDD:1:105_S-501XXX.dgn
SIZE: ANSI D

U.S. ARMY CORPS OF ENGINEERS
PORTLAND DISTRICT

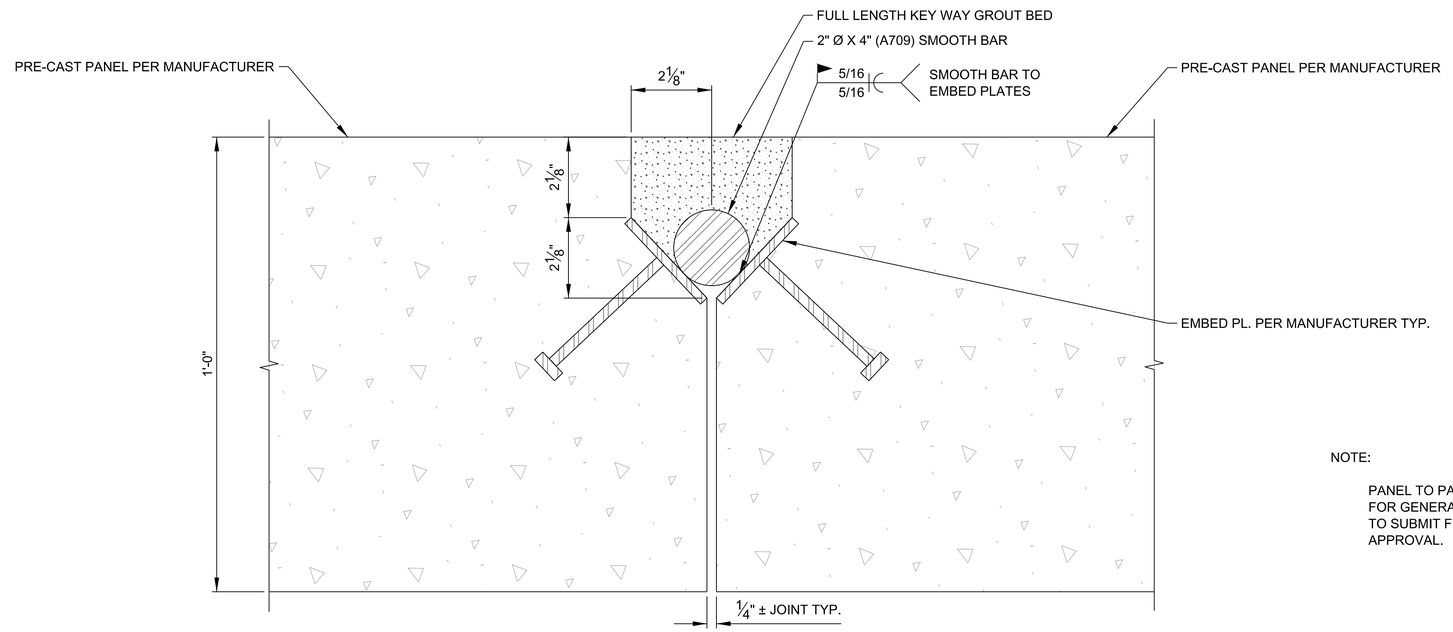
THE DALLES LOCK AND DAM
ICE AND TRASH SLUICEWAY
SPRAY CONTROL

PANEL TO WALL
CONNECTION DETAILS

SHEET IDENTIFICATION
S-501



PLAN
SCALE: 6" = 1'-0"



A - TYPICAL SECTION – PANEL TO PANEL CONNECTION
SCALE: 6" = 1'-0"

NOTE:

PANEL TO PANEL CONNECTION SHOWN HERE IS FOR GENERAL GUIDANCE ONLY. MANUFACTURER TO SUBMIT FULLY DETAILED CONNECTION FOR APPROVAL.

SCALE: 6"= 1'-0"
0 1" 2" 3" 6"

US Army Corps of Engineers
PORTLAND DISTRICT

MARK	DASD	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
PORTLAND DISTRICT

DESIGNED BY: CARL M. HARRIS, P.E.
DRAWN BY: J. LIND
CHECKED BY: J. ROBERTS
SUBMITTED BY: MATTHEW D. HANSON, P.E.
DATE:
SOLICITATION NO.: W9127N19B0031
CONTRACT NO.:
PLOT SCALE: 1:1
PLOT DATE:
DRAWING NUMBER: S-502
SIZE: ANSI D
FILE NAME: DDD1:\105_S-502XXX.dgn

THE DALLES LOCK AND DAM
ICE AND TRASH SLUICEWAY
SPRAY CONTROL

PANEL TO PANEL
CONNECTION DETAILS

SHEET IDENTIFICATION
S-502

CORPS OF ENGINEERS

U. S. ARMY

PLAN AT ELEV. 136.0

Scale: 1/8" = 1'-0"

DEVELOPED SECTION A-A

ALONG ℄ OF ICE AND TRASH SLUICEWAY

Scale: 1/8" = 1'-0"

SECTION J-J

Scale 1/2" = 1'-0"

PERSPECTIVE OF SLUICEWAY

SECTION G-G

Scale 1/4" = 1'-0"

SECTION H-H

Scale 1/4" = 1'-0"

NOTES

For General Notes See DDD-1-4-3.1/9
Work this drawing with DDD-1-4-3.1/26
Handrails DDD-1-4-3.1/36
Contraction Joint Protection Armor DDD-1-4-3.1/35

REVISION	DATE	DESCRIPTION	BY
5	25 Apr 63	Revised As Constructed.	
4	8-26-55	Added Air Vents	
3	5-16-55	Rev. toe of dam, contraction jt. armors, etc. Mono. 25-26	
2	11-17-54	Added W.S. @ Sta. 18+85, changed coverage in sluiceway.	
1	10-11-54	Revised reinf. & added scuppers	

AS CONSTRUCTED

CONTRACT NO. DA-35-026-ENG-20999
CONTRACTOR Montag - Halvorson - Cascade - Austin
DATE OF RECEIPT OF NOTICE TO PROCEED 3 JAN. 1955
DATE OF COMPLETION OF CONTRACT 18 SEPT. 1958
DATE OF ACCEPTANCE 18 SEPT. 1958

CORPS OF ENGINEERS, U. S. ARMY
OFFICE OF THE DISTRICT ENGINEER, PORTLAND, OREGON

DESIGNED: J. K. O.
DRAWN: G. T. O.
CHECKED: J. K. O.
REVIEWED: CHIEF, SAFETY BRANCH
SUPERVISED: CHIEF, STRUCTURES DESIGN SECTION
SUBMITTED: CHIEF, DESIGN BRANCH
RECOMMENDED: CHIEF, ENGINEERING DIVISION

THE DALLES DAM

COLUMBIA RIVER WASHINGTON - OREGON

NON-OVERFLOW DAM

SPILLWAY TO POWERHOUSE

SLUICEWAY I

APPROVED: DATE. 8-31-54
COLONEL, C. E. DISTRICT ENGINEER

SCALE AS SHOWN SPEC. NO.

DDD-1-4-3.1/25

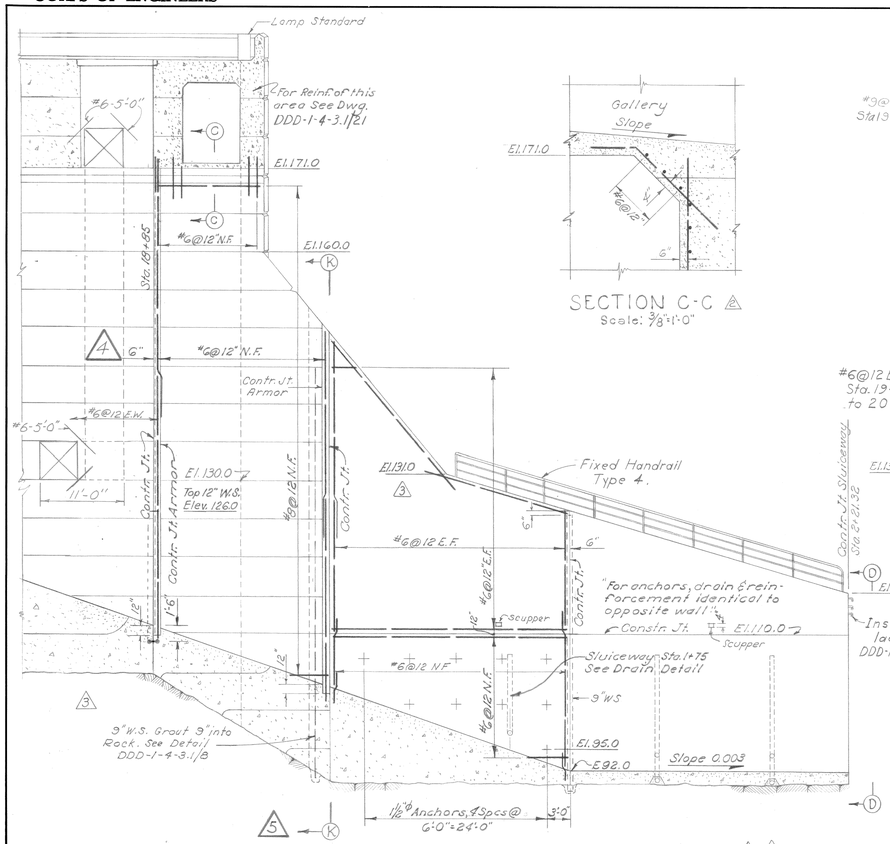
SHEET 315 OF

ARMY—KILHAM STATIONERY & PRINTING CO., PORTLAND, OREGON, BRUNING 378-W 100—7-54 198339

MICROFILMED Sep 1964

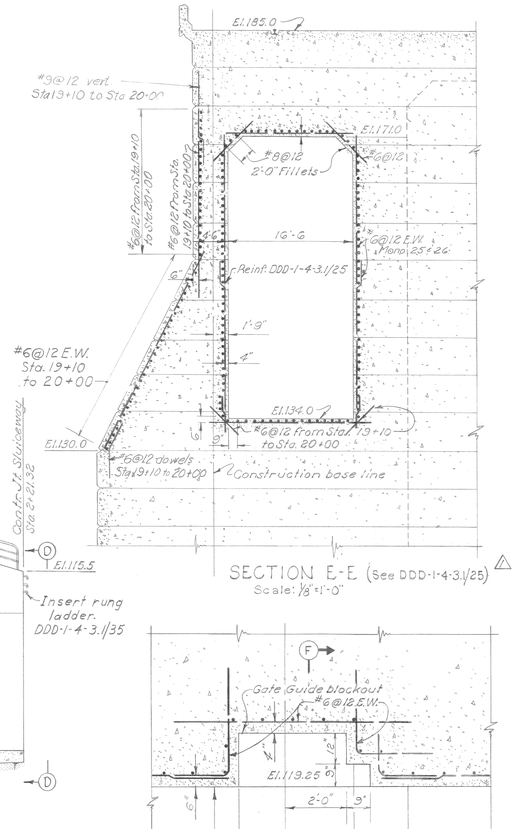
CORPS OF ENGINEERS

U. S. ARMY

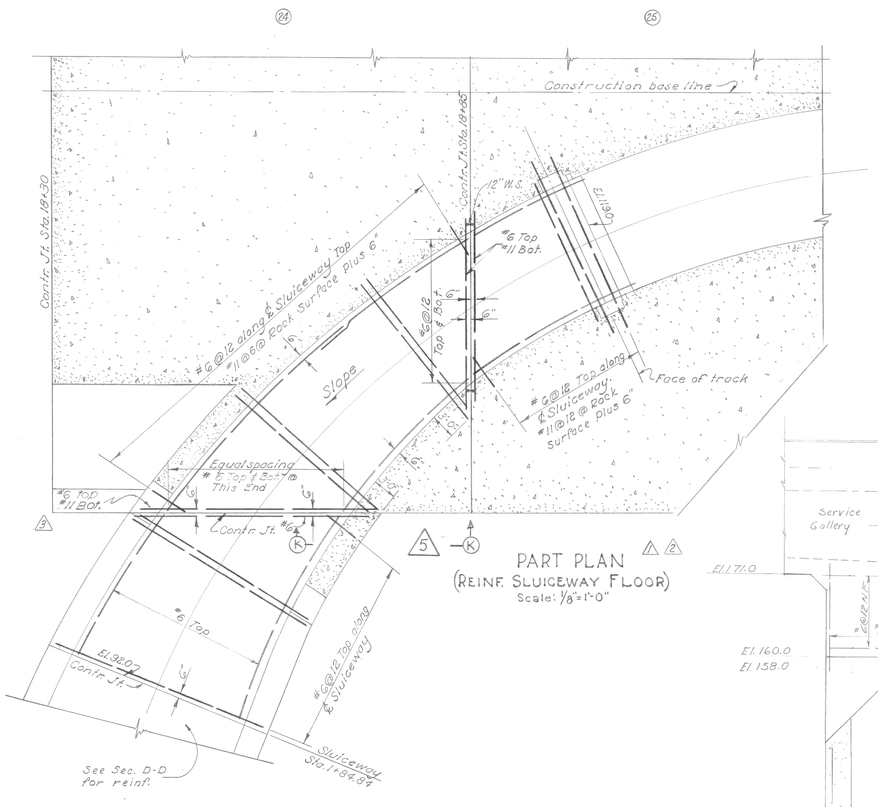


DEVELOPED SECTION B-B (For location see DDP-1-4-3.1/25) △1 △2
Scale: 1/8"=1'-0"

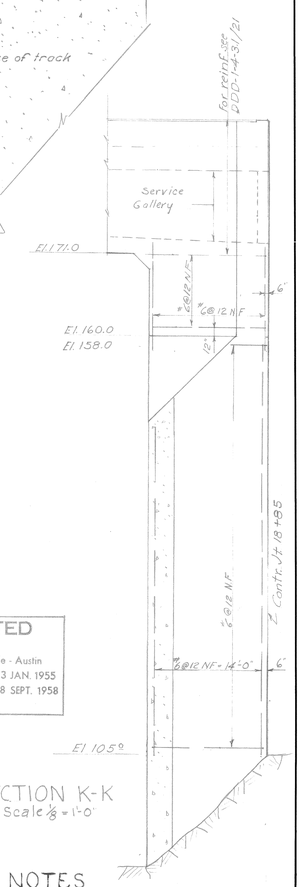
SECTION C-C △2
Scale: 3/8"=1'-0"



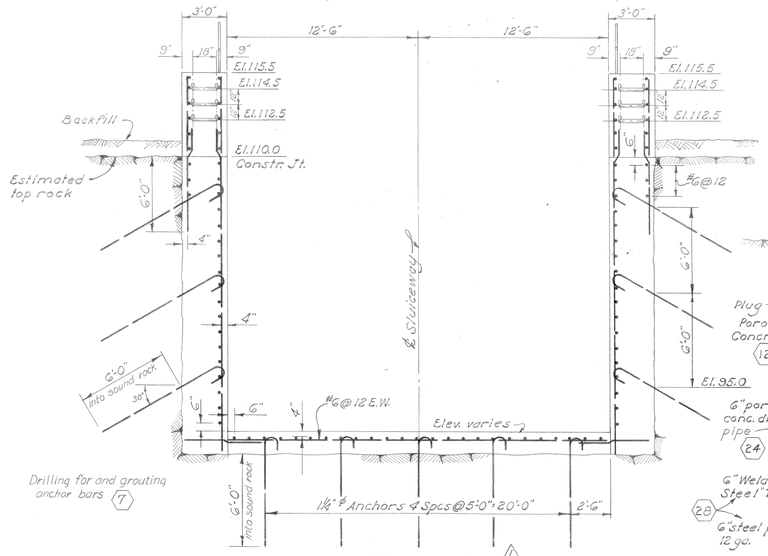
SECTION E-E (See DDD-1-4-3.1/25) △1
Scale: 1/8"=1'-0"



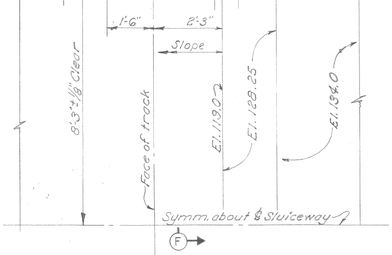
PART PLAN △2
(REINF. SLUICEWAY FLOOR)
Scale: 1/8"=1'-0"



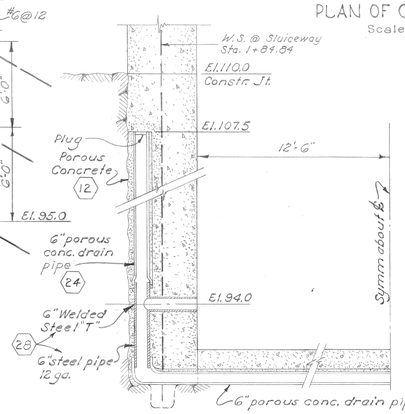
△5 SECTION K-K
Scale 1/8"=1'-0"



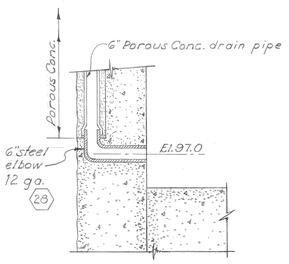
SECTION D-D △
Scale: 1/4"=1'-0"



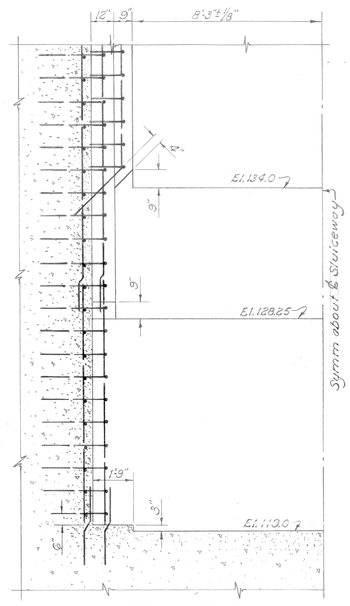
PLAN OF GATE SLOT △3
Scale ½"=1'-0"



TYPICAL DETAIL DRAIN OUTLET △
Scale: 3/8"=1'-0"



DRAIN OUTLET AT SLUICEWAY STA.1+75



SECTION F-F
Scale: 3/8"=1'-0"

AS CONSTRUCTED
CONTRACT NO. DA-35-026-ENG-20999
CONTRACTOR Montag - Halvorson - Cascade - Austin
DATE OF RECEIPT OF NOTICE TO PROCEED 3 JAN. 1955
DATE OF COMPLETION OF CONTRACT 18 SEPT. 1958
DATE OF ACCEPTANCE 18 SEPT. 1958

NOTES

For General Notes See DDD-1-4-3.1/8.
Work this drawing with DDD-1-4-3.1/25
Handrails DDD-1-4-3.1/36
Sluiceway Gate & Stoplog Guides DDD-1-4-3.1/39

REVISION	DATE	DESCRIPTION	BY
△3	9-28-55	Added Section K-K & Reinf.	HWS
△4	8-26-55	Added Gate Air Vent.	HWS
△3	5-16-55	Rev. Toe of Dam, Exten. Sec. B-B; Minor Revisions & Corrections.	DWS
△2	10/17/54	Added W.S.@ Sta. 18+85, changed coverage in sluiceway.	HWS
△1	10/11/54	Revised Reinf., Added Scuppers.	HWS

CORPS OF ENGINEERS, U. S. ARMY
OFFICE OF THE DISTRICT ENGINEER, PORTLAND, OREGON

DESIGNED: VKO
DRAWN: ETD
CHECKED: LWS
REVIEWED: for Ira A. Wilson, CHIEF, SAFETY BRANCH
SUPERVISED: CHIEF, STRUCTURES DESIGN SECTION
SUBMITTED: CHIEF, DESIGN BRANCH
RECOMMENDED: for Lloyd C. Ingram, CHIEF, ENGINEERING DIVISION

THE DALLES DAM
COLUMBIA RIVER WASHINGTON - OREGON
NON-OVERFLOW DAM
SPILLWAY TO POWERHOUSE
SLUICEWAY II

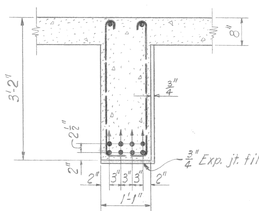
APPROVED: DATE: 8-31-54
COLONEL, C.E. DISTRICT ENGINEER
SCALE AS SHOWN SPEC. NO.
DDD-1-4-3.1/26
SHEET 316 OF

5

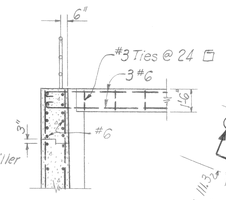
ARMY—RILIHAM STATIONERY & PRINTING CO., PORTLAND, OREGON, BRUNING 370-W 100—7-54 198339

CORPS OF ENGINEERS

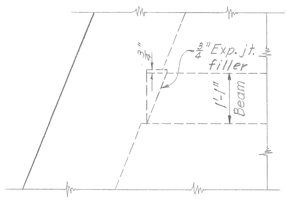
U. S. ARMY



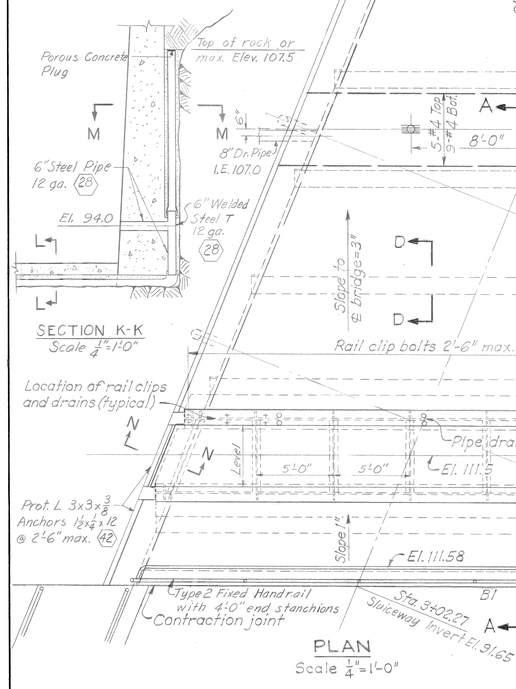
SECTION D-D
Scale $\frac{3}{4}$" = 1'-0"



SECTION C-C
Scale $\frac{1}{4}$" = 1'-0"

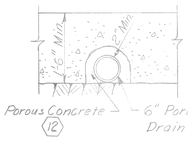


TYPICAL PLAN OF BEAM BEARING
Scale $\frac{3}{4}$" = 1'-0"

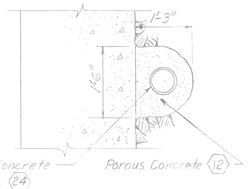


PLAN
Scale $\frac{1}{4}$" = 1'-0"

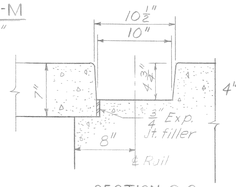
SECTION K-K
Scale $\frac{1}{4}$" = 1'-0"



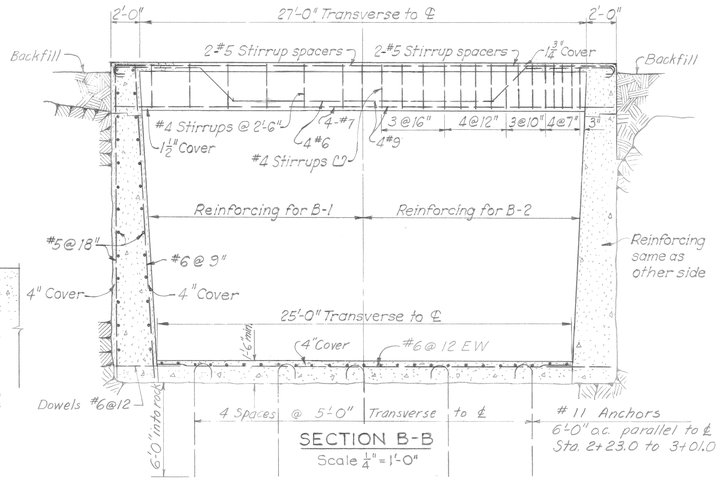
SECTION L-L
Scale $\frac{3}{4}$" = 1'-0"



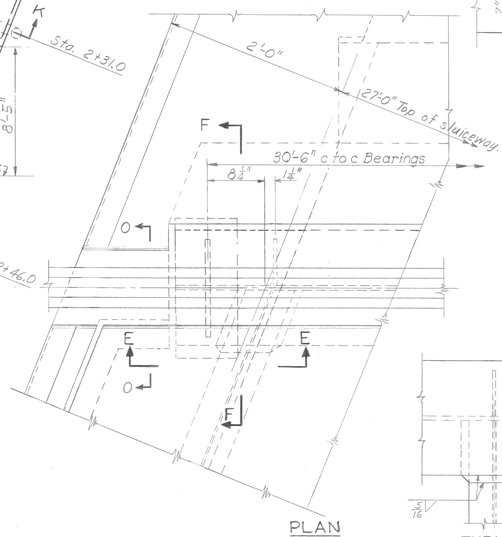
SECTION M-M
Scale $\frac{3}{4}$" = 1'-0"



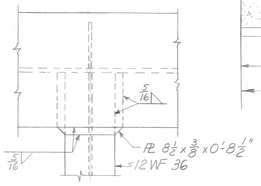
SECTION O-O
Scale $1\frac{1}{2}$" = 1'-0"



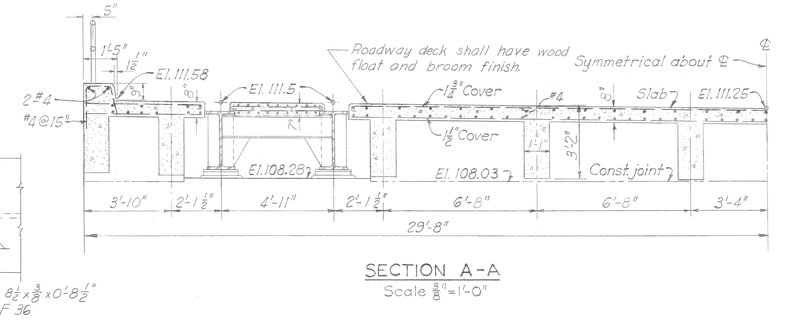
SECTION B-B
Scale $\frac{1}{4}$" = 1'-0"



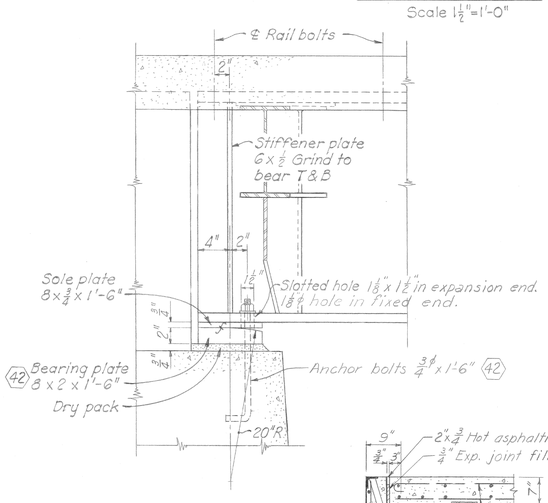
PLAN
END OF STEEL BEAM
Scale $1\frac{1}{2}$" = 1'-0"



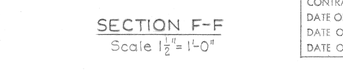
TYPICAL
FLOOR BEAM
CONNECTION
Scale $1\frac{1}{2}$" = 1'-0"



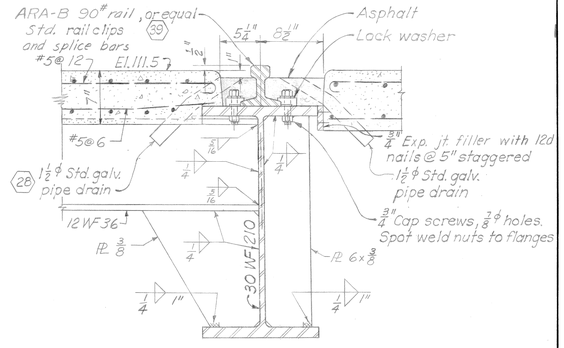
SECTION A-A
Scale $\frac{3}{8}$" = 1'-0"



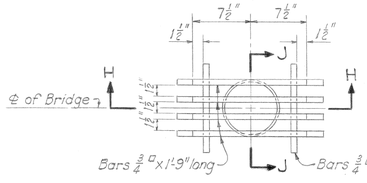
SECTION E-E
Scale $1\frac{1}{2}$" = 1'-0"



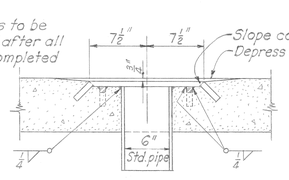
SECTION F-F
Scale $1\frac{1}{2}$" = 1'-0"



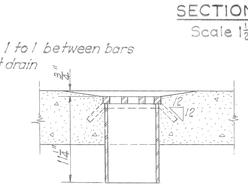
SECTION G-G
Scale $1\frac{1}{2}$" = 1'-0"



PLAN
Scale $1\frac{1}{2}$" = 1'-0"



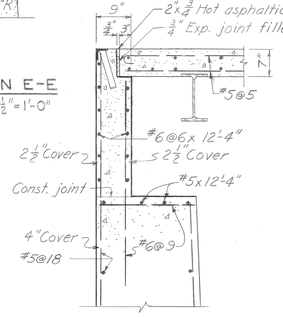
SECTION H-H
Scale $1\frac{1}{2}$" = 1'-0"



SECTION J-J

ROADWAY DRAINS (42)

Note: Drains to be galvanized after all welding is completed



SECTION N-N
Scale $\frac{3}{4}$" = 1'-0"

AS CONSTRUCTED
CONTRACT NO. DA-35-026-ENG-20999
CONTRACTOR Morrison - Halvorson - Cascade - Austin
DATE OF RECEIPT OF NOTICE TO PROCEED 3 JAN. 1955
DATE OF COMPLETION OF CONTRACT 18 SEPT. 1958
DATE OF ACCEPTANCE 18 SEPT. 1958

NOTES AND DESIGN LOADS

Roadway, H20-S16-44 plus 30% impact or 25 ton mobile crane carrying 8 ton load on rear wheels plus 11% impact.
Railroad, Coopers E 50 followed by transformer car, weight 370.8 k, plus 30% impact.
Longitudinal bars, except for bridge deck, shall have one splice.
Structural carbon beams ASTM A7-53T.
Handrail details DDD-1-4-3.1/36.
General notes DDD-1-4-3.1/8.

Concrete, sluiceway except porous concrete, item (10).
Reinforcing steel, item (19).
Structural steel beams, item (46).
Drilling for and grouting anchor bars, item (7).

REVISION	DATE	DESCRIPTION	BY
2	10 June 63	Revised As Constructed.	
1	10-11-54	General Revision	

CORPS OF ENGINEERS, U.S. ARMY
OFFICE OF THE DISTRICT ENGINEER, PORTLAND, OREGON

DESIGNED: E.L.W. J.S.M.
DRAWN:
CHECKED: E.L.W.
REVIEWED: for Asst. D. Winters, CHIEF, SAFETY BRANCH
SUPERVISED: C. Brown Jr., CHIEF, STRUCTURES DESIGN SECTION
SUBMITTED: C. Bowerman, CHIEF, DESIGN BRANCH
RECOMMENDED: Fred E. Ingram, CHIEF, ENGINEERING DIVISION

THE DALLES DAM
COLUMBIA RIVER WASHINGTON - OREGON
NON-OVERFLOW DAM
SPILLWAY DAM TO POWERHOUSE
BRIDGE OVER SLUICEWAY

APPROVED: DATE: 8-31-54
R. L. Marshall, COL. C. E. DISTRICT ENGINEER
SCALE AS SHOWN SPEC. NO.
DDD-1-4-3.1/27
SHEET 317 OF

ARMY—KILHAM STATIONERY & PRINTING CO., PORTLAND, OREGON. X & E NO. AN164 100 11-53 136614