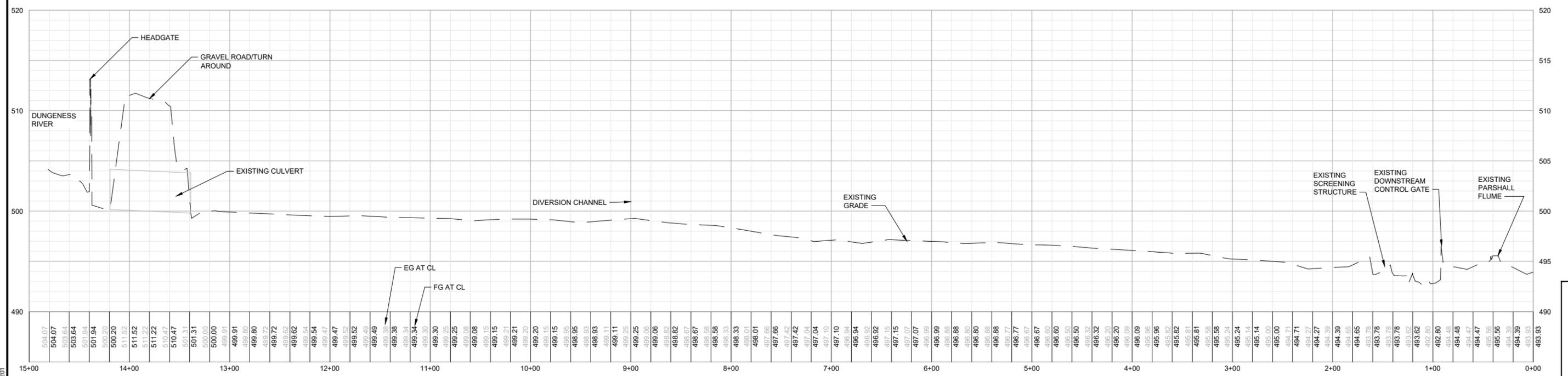


PLAN
SCALE: H 1" = 50' V 1" = 5'

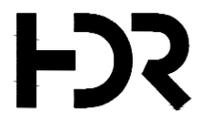


PROFILE
SCALE: H 1" = 50' V 1" = 5'

PLAN INTENDED TO BE VIEWED
IN COLOR. ADJACENT BLOCK IS
"BLUE"
ONE INCH
AT FULL SIZE. IF NOT ONE
INCH SCALE ACCORDINGLY

30% DESIGN: NOT FOR CONSTRUCTION

c:\pwworking\west01\2578210\C201.dwg C201 Aug 02, 2024 2:31 pm T.MALONE



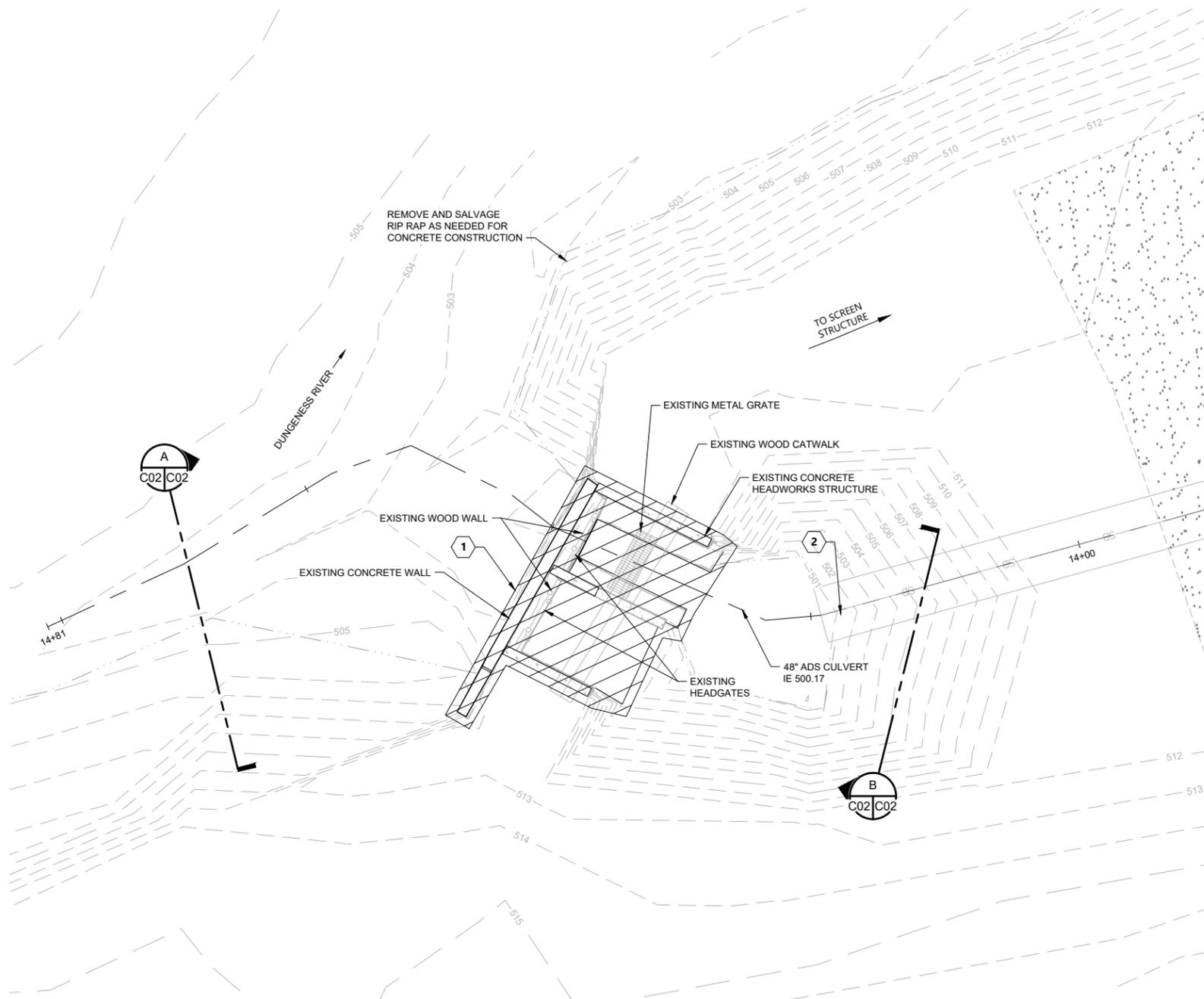
REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: T. MALONE
DRAWN BY: S. FITZROY
CHECKED BY: M. GARELLO
APPROVED BY: XXX
SCALE: AS NOTED
DATE: 6/14/2024

DUNGENESS OFF-CHANNEL RESERVOIR
HEADWORKS AND FISH SCREEN
SITE PLAN AND PROFILE

C201
SHEET # 25 OF 46

Aug 02, 2024 2:31 pm T.MALONE c:\pwworking\west01\425782\10\C202.dwg C202



EXISTING PARTIAL PLAN
SCALE: 1" = 5'
1
C01 C02



HEADGATE DEMO
SCALE: NOT TO SCALE
A
C02 C02



HEADGATE DEMO
SCALE: NOT TO SCALE
B
C02 C02

NOTES:

- ALL DEMOLISHED ITEMS SHALL BE COMPLETELY REMOVED FROM THE PROJECT SITE AND DISPOSED OF AT AN OFF-SITE LOCATION IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS. DISPOSAL FEES SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL NOT CONSIDER REMOVAL NOTES TO BE ALL INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT, MEASURE, AND ACCESS EACH AREA TO MEET THE DESIGN REQUIREMENTS INDICATED IN THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND NOTIFY THE PROJECT ENGINEER IN WRITING OF ANY DEVIATION FROM CONTRACT DOCUMENTS REQUIRED BY CONDITIONS IDENTIFIED IN THE FIELD.
- ALL REMOVAL SHALL BE PERFORMED IN A SAFE MANNER IN CONFORMANCE WITH THE CONTRACT DOCUMENTS, WASHINGTON DEPARTMENT OF LABOR AND INDUSTRIES, OSHA AND GOVERNING REGULATIONS PERTAINING TO THE ENVIRONMENTAL PROTECTION AND POLLUTION CONTROL.
- THE CONTRACTOR SHALL STOP WORK AND INFORM THE PROJECT ENGINEER SHOULD ANY HAZARDOUS MATERIAL OR PERCEIVED HAZARDOUS MATERIAL BE ENCOUNTERED DURING CONSTRUCTION.
- DEMOLISH CONCRETE USING SAW CUTTING OR OTHER APPROVED METHOD AND REMOVE CONCRETE IN BLOCKS. ALL DEMOLITION DEBRIS AND DELETERIOUS MATERIALS SHALL BE REMOVED FROM THE PROJECT LIMITS.
- CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY LOCATES REQUIRED FOR DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND PROTECTING ALL EXISTING PUBLIC AND PRIVATE UTILITIES, BOTH UNDERGROUND AND OVERHEAD. THE COST TO REPAIR ANY DAMAGE TO THESE UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

KEYED NOTES: X

- DEMOLISH AND REMOVE EXISTING HEADWALL STRUCTURE AND APPURTENANCES.
- PROTECT HDPE PIPE IN PLACE.

ONE INCH
↑
AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY
PLAN INTENDED TO BE VIEWED IN COLOR, ADJACENT BLOCK IS "BLUE"

30% DESIGN: NOT FOR CONSTRUCTION



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

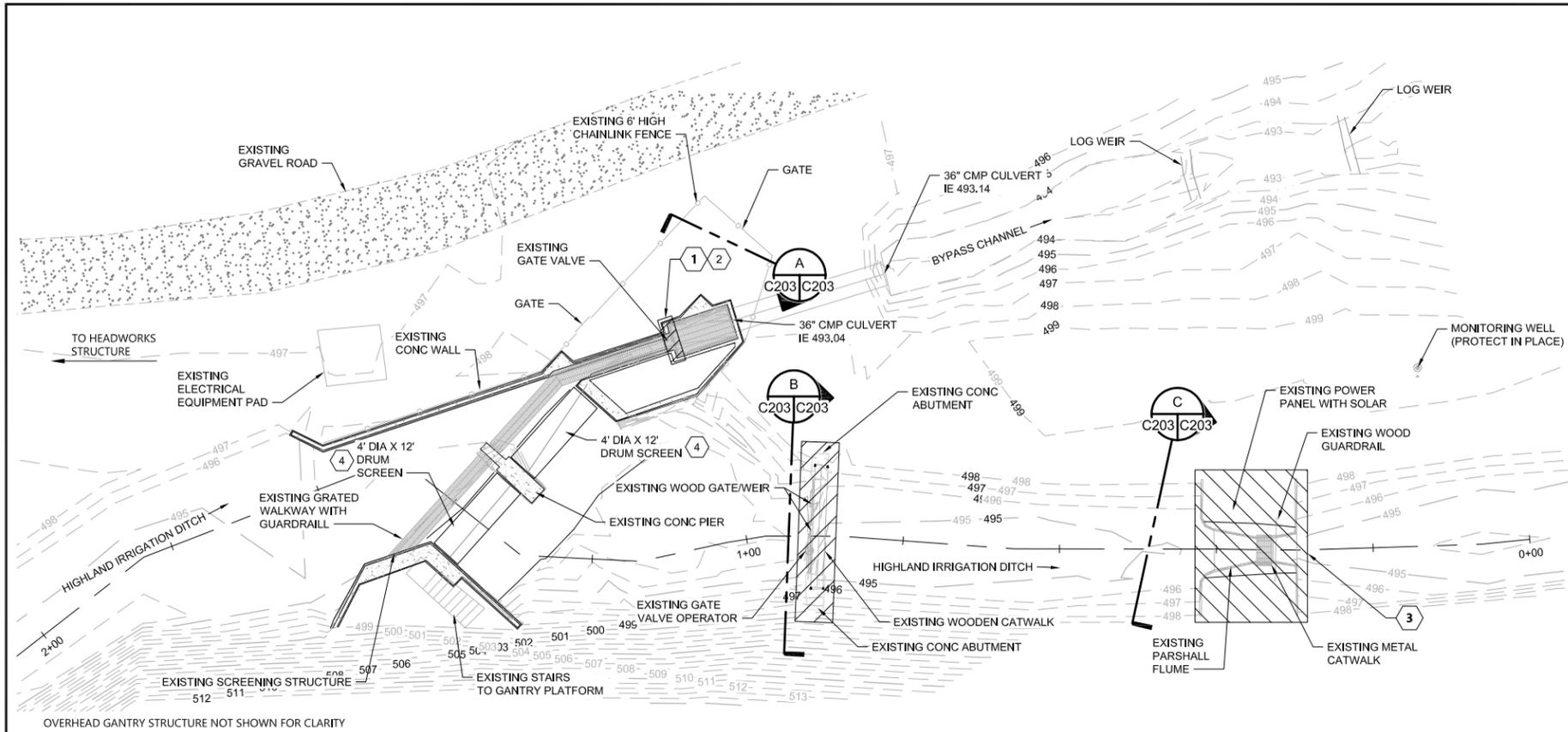
DESIGNED BY: T. MALONE
DRAWN BY: S. FITZROY
CHECKED BY: M. GARELLO
APPROVED BY: XXX
SCALE: AS NOTED
DATE: 6/14/2024

DUNGENESS OFF-CHANNEL RESERVOIR

**HEADWORKS
DEMOLITION PLAN AND SECTIONS**

C202

SHEET # 26 OF 46



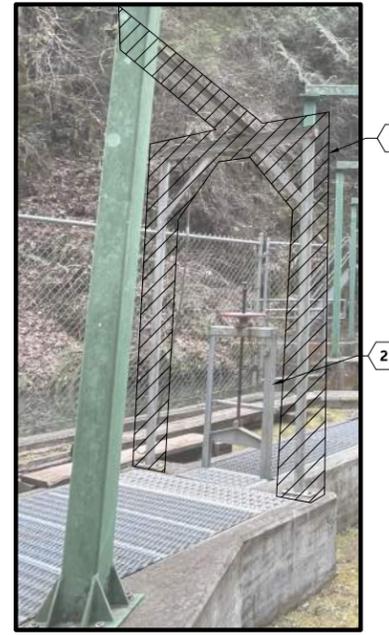
OVERHEAD GANTRY STRUCTURE NOT SHOWN FOR CLARITY

EXISTING PARTIAL PLAN
SCALE: 1" = 10'



- NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR THE DISSASSEMBLY, LIFTING AND LOADING OF EXISTING DRUM SCREENS IN COORDINATION WITH WDFW. SLAVAGE ACTIVITIES MAY INCLUDE BUT ARE NOT LIMITED TO DISCONNECTION OF POWER, REMOVAL OF MECHANICAL EQUIPMENT SUCH AS BEARINGS AND MOTORS, REMOVAL OF HARDWARE AND FASTENERS, REMOVAL OF SEALS AND GUIDES, AND REMOVAL OF MISCELLANEOUS METALS.
 2. WDFW WILL BE RESPONSIBLE FOR SECURING AND HAULING THE DRUM SCREENS OFF SITE FOR RESURFACING.
 3. UPON COMPLETION OF RESURFACING, WDFW WILL DELIVER DRUM SCREENS TO CONTRACTOR. CONTRACTOR WILL THEN BE RESPONSIBLE FOR THE REINSTALLATION OF THE REFURBISHED DRUM SCREENS AND ALL ASSOCIATED APPURTENANCES TO THE FINAL INTENDED OPERATING CONDITION.
 4. LEVEL TRANSDUCER AND COMMUNICATIONS EQUIPMENT SHALL BE SALVAGED AND MADE AVAILABLE TO OWNER FOR REUSE.
 5. TEMPORARY REMOVAL AND REPLACEMENT OF EXISTING CHAIN LINK FENCE MAY BE PERFORMED AT THE DISCRETION OF THE CONTRACTOR. ANY DAMAGE CAUSED BY CONTRACTOR SHALL BE REPAIRED AT THR CONTRACTORS EXPENSE.

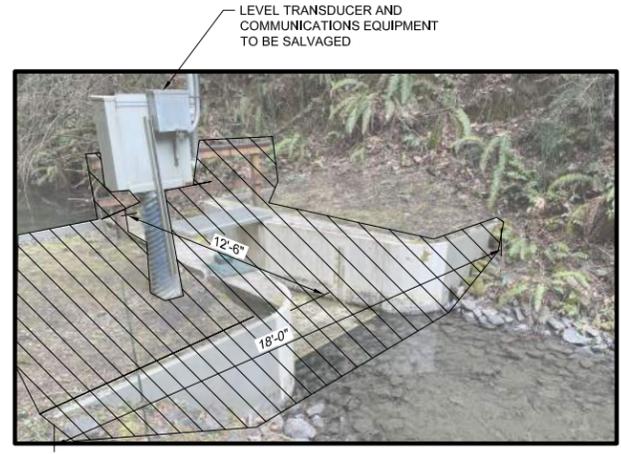
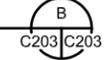
- KEYED NOTES: (X)
1. REMOVE STEEL FRAMEWORK FOR GANTRY LIFTING EXISTING WATER CONTROL GATE.
 2. REMOVE AND SALVAGE EXISTING GATE
 3. REFER TO NOTES 1 THROUGH 3 FOR CONTRACTOR RESPONSIBILITY.
 4. COORDINATE WITH WDFW FOR REMOVAL AND REFURBISHMENT OF DRUM SCREENS.



GANTRY DEMO
NOT TO SCALE



STRUCTURE DEMO
NOT TO SCALE



FLUME DEMO
NOT TO SCALE



- NOTES:
1. TOTAL WIDTH OF STRUCTURE FROM ABUTMENT EDGES IS APPROX 20 FEET. STRUCTURE OPENING IS APPROX 12 FEET. LONGITUDINAL WIDTH OF ABUTMENT AND FLOOR IS APPROX 2 FEET.
 2. ABUTMENTS AND FLOOR ARE CONSTRUCTED FROM PRECAST ECOLOGY BLOCKS. WALKWAY AND CHECKBOARDS ARE CONSTRUCTED FROM DIMENSIONAL LUMBER.
 3. CHECKBOARD GUIDE SLOTS CONSTRUCTED FROM STEEL CHANNEL AND I-BEAMS.

- NOTES:
1. TOTAL WIDTH OF STRUCTURE FROM ABUTMENT EDGES IS APPROX 18 FEET. TOTAL LENGTH OF STRUCTURE IS APPROX 13 FEET.
 2. FLUME WALLS AND FLOOR ARE CONSTRUCTED FROM THIN GAGE STEEL PLATES. WALLS ARE REINFORCED WITH CAST IN PLACE CONCRETE APPROX 1 FOOT THICK.
 3. TRANSDUCER AND COMMUNICATIONS EQUIPMENT SHALL BE SALVAGED PRIOR TO DEMOLITION OF THE FLUME STRUCTURE.

PLAN INTENDED TO BE VIEWED IN COLOR. ADJACENT BLOCK IS "BLUE" INCH SCALE ACCORDINGLY

30% DESIGN: NOT FOR CONSTRUCTION

Aug 02, 2024 2:37pm T.MALONE C:\pwworking\west01\242978210\C203.dwg C203



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

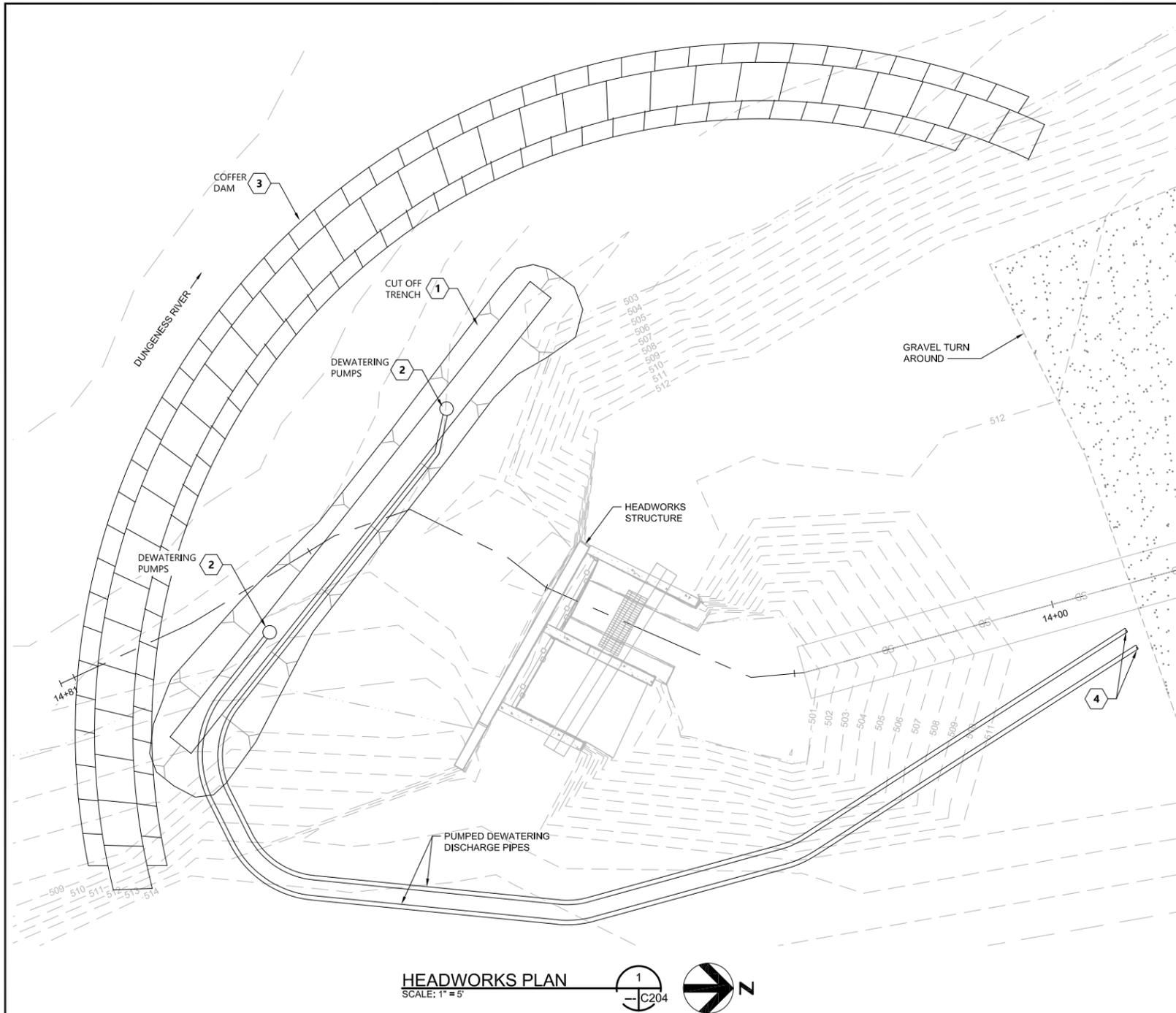
DESIGNED BY: T. MALONE
DRAWN BY: S. FITZROY
CHECKED BY: M. GARELLO
APPROVED BY: XXX
SCALE: AS NOTED
DATE: 6/14/2024

DUNGENESS OFF-CHANNEL RESERVOIR

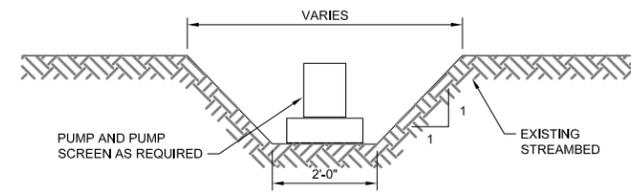
**FISH SCREEN
DEMOLITION PLAN AND SECTIONS**

C203

SHEET # 27 OF 46

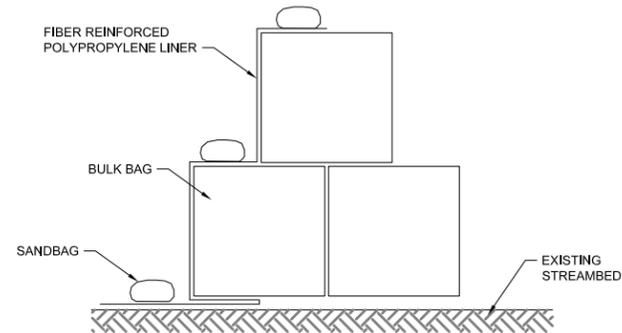


HEADWORKS PLAN
SCALE: 1"=5'



INFILTRATION TRENCH DETAIL
NOT TO SCALE

- BOTTOM ELEVATION OF TRENCH MAY VARY DEPENDING UPON SEVERITY OF GROUND WATER ENCOUNTERED. BOTTOM WIDTH OF TRENCH SHALL BE 2 FEET. INCREASE WIDTH IF NEEDED TO ACCOMMODATE LARGER DEWATERING PUMPS OR SCREENS.
- SIDE SLOPES MAY VARY DEPENDING UPON SIZE AND GRADATION OF STREAMBED MATERIAL AND EROSION DUE TO SURFACE WATER FROM COFFERDAM LEAKAGE.
- ROUTE OUTLET HOSE(S) TO OPEN DITCH DOWNSTREAM OF EXISTING BURIED PIPE.



COFFERDAM DETAIL
NOT TO SCALE

- LAY FIBER REINFORCED POLYLINER ALONG COFFERDAM ALIGNMENT. FOLD LINER TO ALLOW 5-10 FOOT SEGMENT LAY FLAT AGAINST RIVERBED.
- PLACE A SINGLE ONE YARD BULK BAG ON TOP OF CREASE OF FOLDED LINER. OVERLAP FOLDED PORTION OF LINER WITH BULK BAG BY A MINIMUM OF 1 FOOT.
- PLACE HAND SANDBAGS ALONG BASE OF BULK BAGS.
- FOLD REMAINING LINER ON TOP OF BULK BAG AND SECURE WITH HAND SANDBAGS.
- PLACE SECOND BULK BAG BEHIND FIRST. PLACE THIRD BULK BAG ON TOP OF THE FIRST AND SECOND.
- FOLD POLY LINER OVER BULK BAGS AND SECURE WITH HAND SAND BAGS.

- GENERAL NOTES:
- CONTRACTOR IS SOLELY RESPONSIBLE FOR DEVELOPMENT AND EXECUTION OF THE FINAL SITE WATER CONTROL PLAN. PLAN SHOWN ON THIS SHEET IS OPTIONAL ONLY.
 - CONTRACTOR IS SOLELY RESPONSIBLE FOR DESIGN, CONFIGURATION, AND MATERIAL SELECTION FOR COFFERDAM.
 - CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING COMPLIANCE WITH ALL ENVIRONMENTAL PERMITTING PROVISIONS.
 - NO SITE DEWATERING CONSTRUCTION ACTIVITIES SHALL BE PERFORMED PRIOR TO RECEIVING APPROVAL OF PROPOSED PLAN BY THE PROJECT ENGINEER.
 - NO PERMANENT POWER SOURCE EXISTS AT THE SITE. TEMPORARY POWER NEEDS SHALL BE PROVIDED BY THE CONTRACTOR.

- KEYED NOTES: (X)
- SURFACE FLOW AND INFILTRATION CUTOFF TRENCH. EXCAVATION WIDTH AND DEPTH MAY VARY BASED ON RIVER AND SUBSURFACE FLOW CONDITIONS ENCOUNTERED.
 - DEWATERING PUMP(S) PLACED WITHIN EXCAVATED SURFACE AND INFILTRATION CUTOFF TRENCH. PUMPS MAY BE OPERATED INTERMITTENTLY DEPENDING ON SEVERITY OF SUBSURFACE FLOW AND COFFERDAM LEAKAGE.
 - FLOW ISOLATION COFFERDAM. TO BE CONSTRUCTED PER CONTRACTOR DESIGN AND APPROVED WATER CONTROL PLAN.
 - ROUTE DEWATERING PUMP OUTLETS TO OPEN TRENCH. OUTLETS MAY BE PLACED INSIDE EXISTING HDPE PIPE ROUTED TO OPEN DITCH. SANDBAG COFFERDAM INSIDE PIPE MAY BE REQUIRED TO PREVENT WATER FROM ENTERING WORK AREA.

Aug 02, 2024 2:23pm T.MALONE c:\pwworking\west01\2378210\C204.dwg C204



REVISIONS				
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CHECKED BY: M. GARELLO
APPROVED BY: XXX
SCALE: AS NOTED
DATE: 6/14/2024

DUNGENESS OFF-CHANNEL RESERVOIR

HEADWORKS CARE OF WATER PLAN

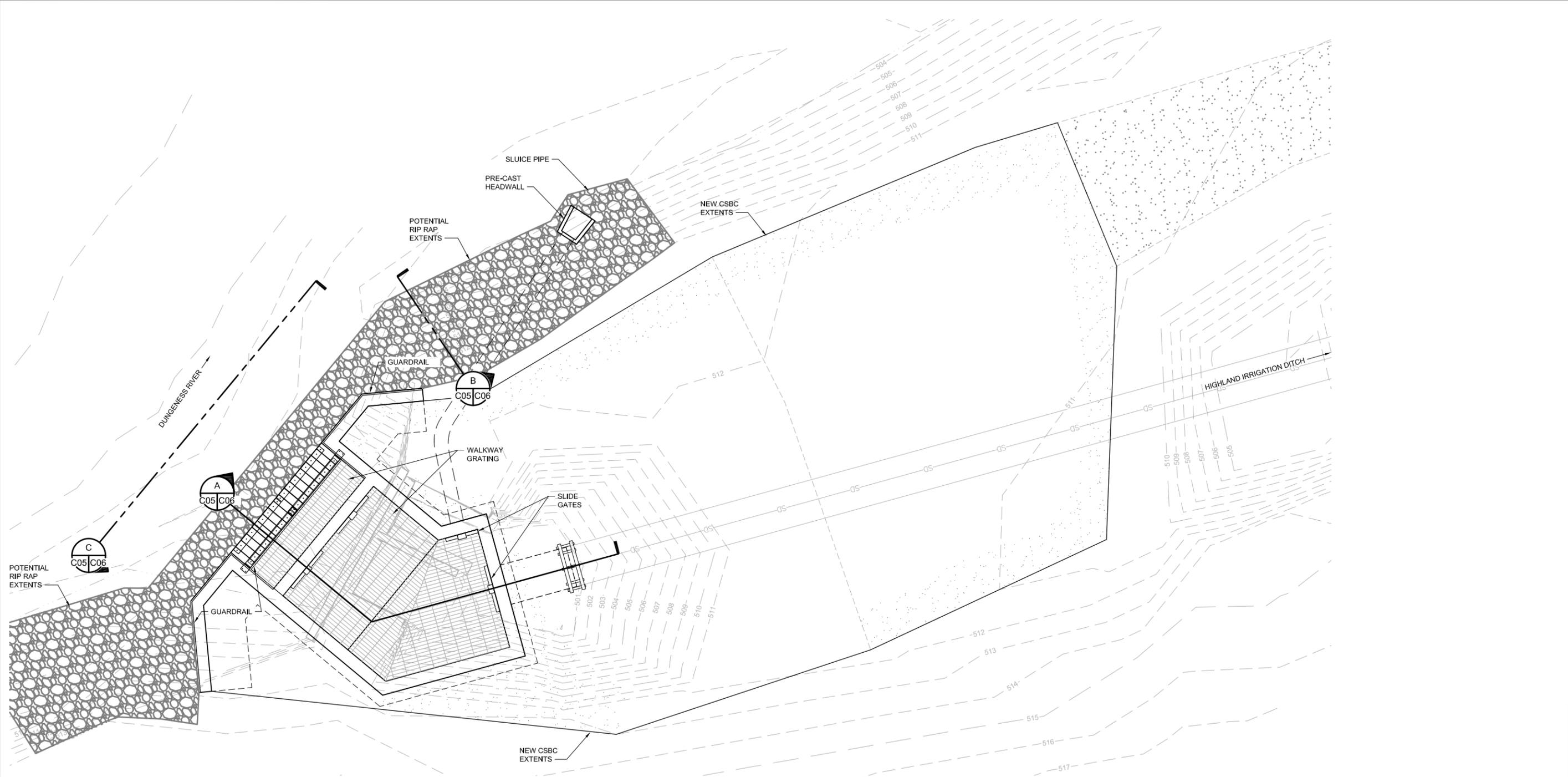
C204

SHEET # 28 OF 46

30% DESIGN: NOT FOR CONSTRUCTION

PLAN INTENDED TO BE VIEWED IN COLOR. ADJACENT BLOCK IS "BLUE" INCH SCALE ACCORDINGLY

Aug 02, 2024 2:23pm T.MALONE C:\pwworking\west01\23978210\C205.dwg C205



HEADWORKS PLAN
SCALE: 1" = 5'-0"



PLAN INTENDED TO BE VIEWED
IN COLOR. ADJACENT BLOCK IS
"BLUE"
ONE INCH
AT FULL SIZE. IF NOT ONE
INCH SCALE ACCORDINGLY

30% DESIGN: NOT FOR CONSTRUCTION

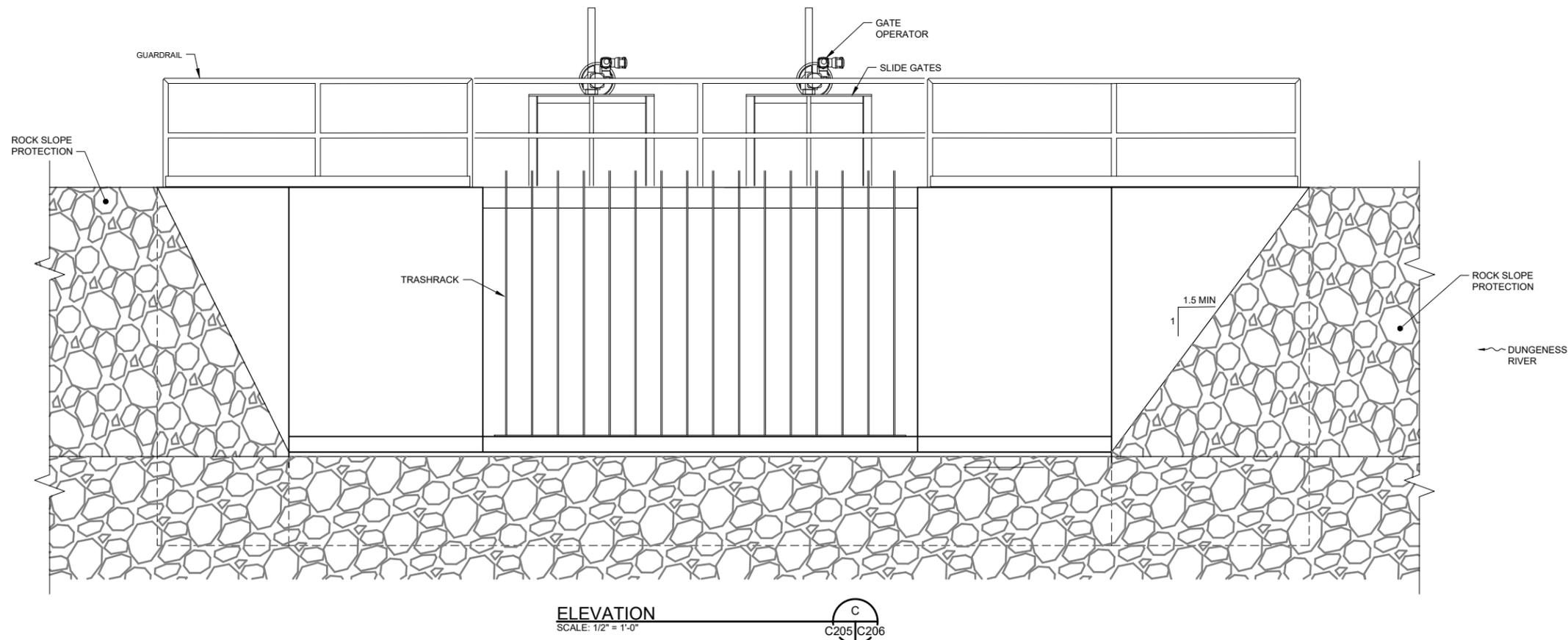
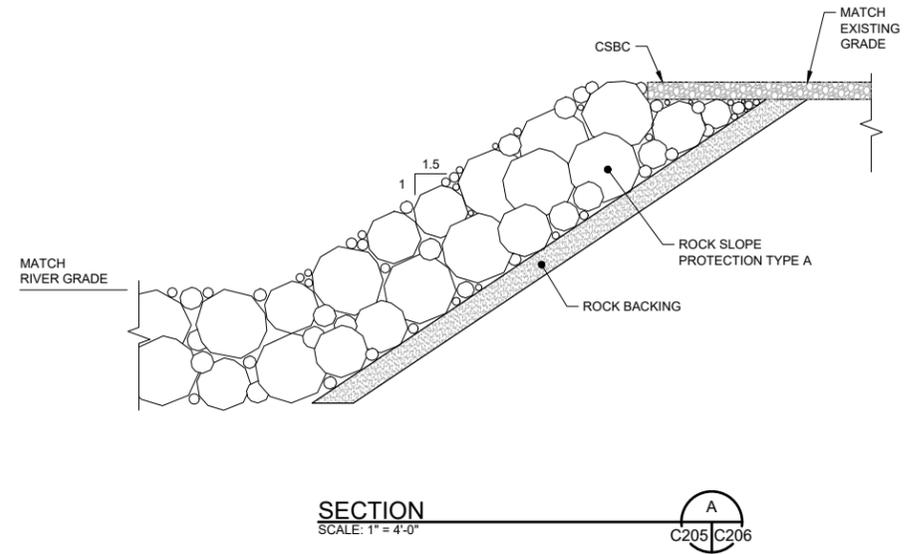
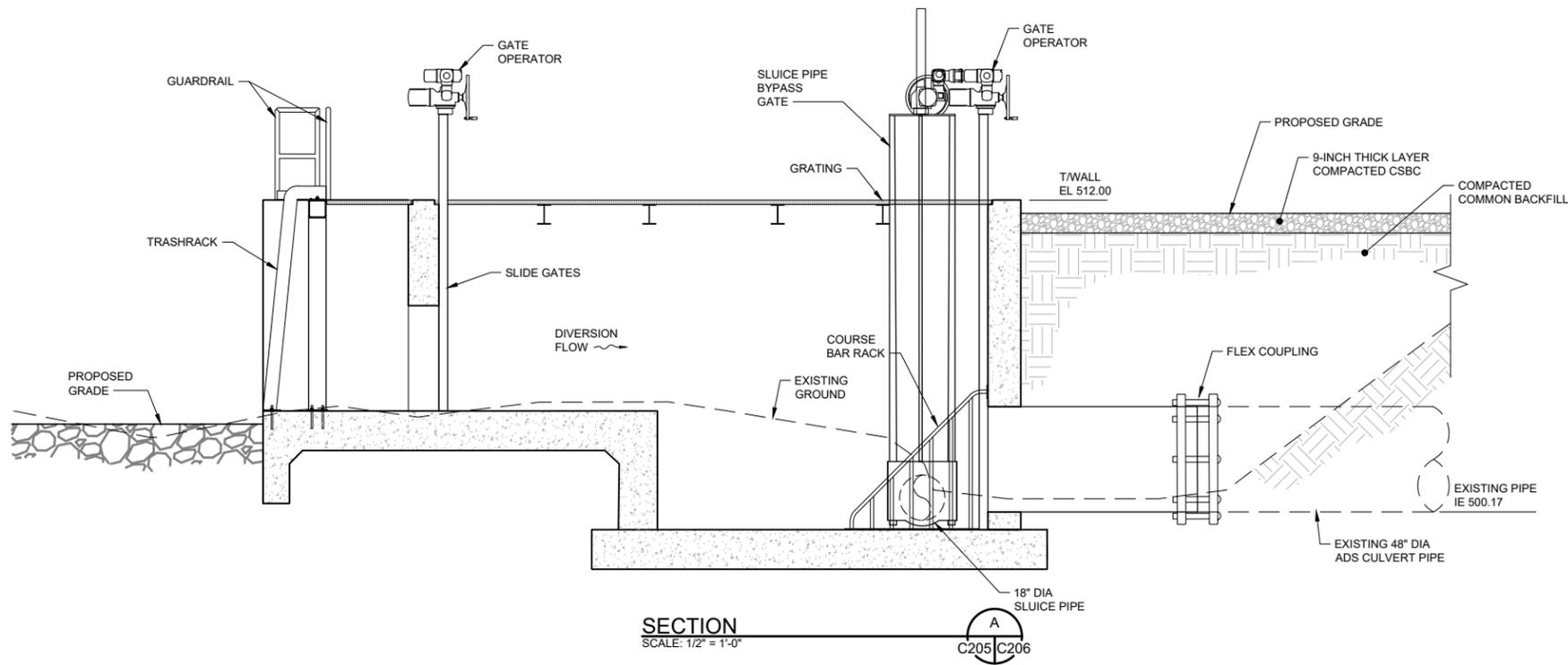


REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: T. MALONE
DRAWN BY: S. FITZROY
CHECKED BY: M. GARELLO
APPROVED BY: XXX
SCALE: AS NOTED
DATE: 6/14/2024

DUNGENESS OFF-CHANNEL RESERVOIR
HEADWORKS CIVIL PLAN

C205
SHEET # 29 OF 46



PLAN INTENDED TO BE VIEWED
IN COLOR. ADJACENT BLOCK IS
"BLUE"
ONE INCH
AT FULL SIZE. IF NOT ONE
INCH SCALE ACCORDINGLY

30% DESIGN: NOT FOR CONSTRUCTION

Aug 02, 2024 2:23pm T.MALONE C:\pwworking\west01\22978210\C206.dwg C206



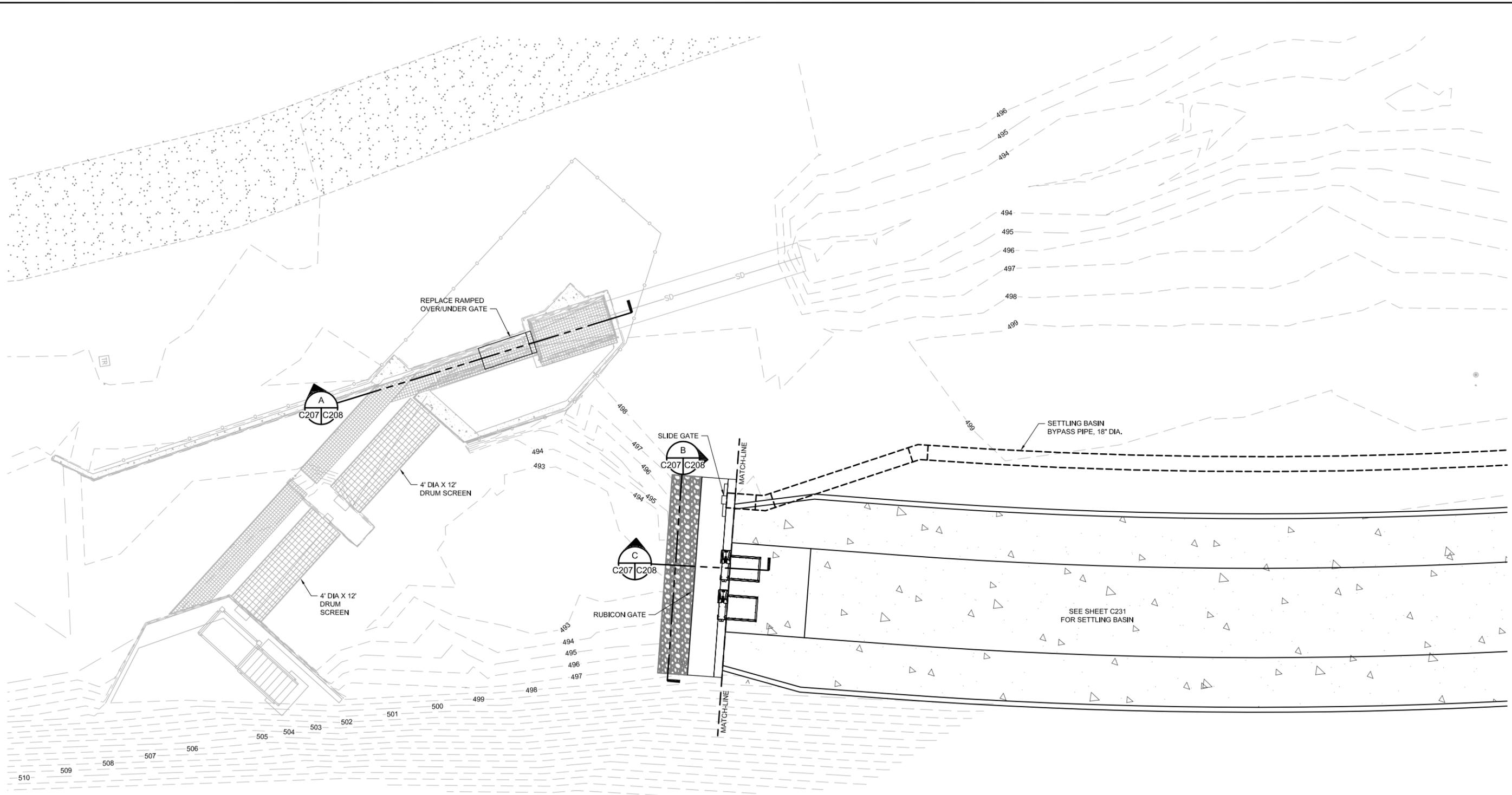
REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: T. MALONE
DRAWN BY: S. FITZROY
CHECKED BY: M. GARELLO
APPROVED BY: XXX
SCALE: AS NOTED
DATE: 6/14/2024

DUNGENESS OFF-CHANNEL RESERVOIR
HEADWORKS CIVIL ELEVATION AND SECTIONS

C206
SHEET # 30 OF 46

Aug 02, 2024 2:51pm T.MALONE C:\P\WORKING\west01\2578210\C207.dwg C207



PROPOSED PARTIAL PLAN 1
 SCALE: 1" = 8'-0" C201 | C207

PLAN INTENDED TO BE VIEWED
 IN COLOR. ADJACENT BLOCK IS
 "BLUE"
 ONE INCH
 AT FULL SIZE. IF NOT ONE
 INCH SCALE ACCORDINGLY

30% DESIGN: NOT FOR CONSTRUCTION



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

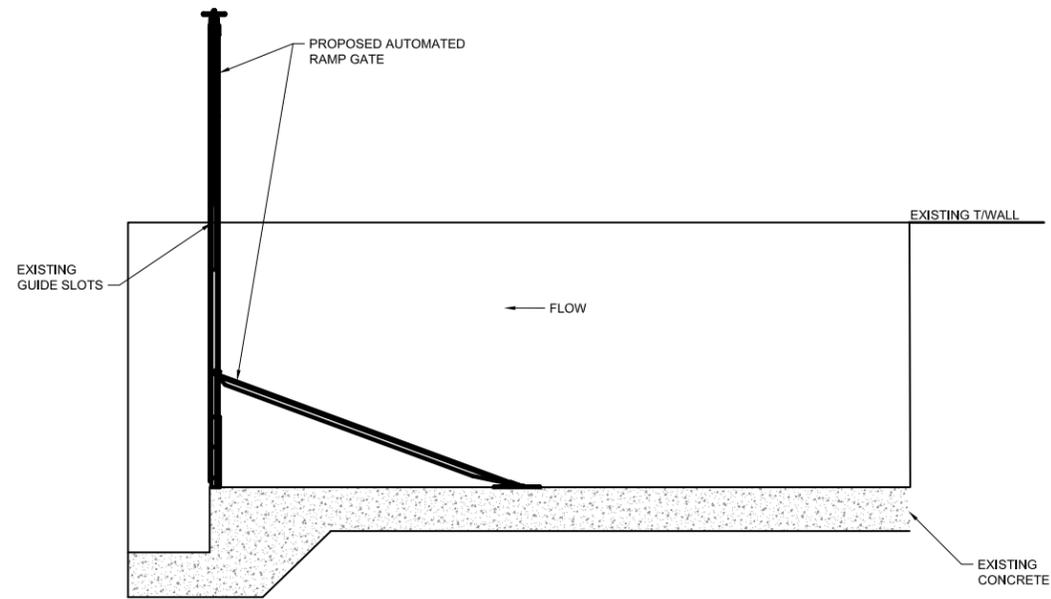
DESIGNED BY: T.MALONE
 DRAWN BY: S.FITZROY
 CHECKED BY: M. GARELLO
 APPROVED BY: XXX
 SCALE: AS NOTED
 DATE: 6/14/2024

DUNGENESS OFF-CHANNEL RESERVOIR

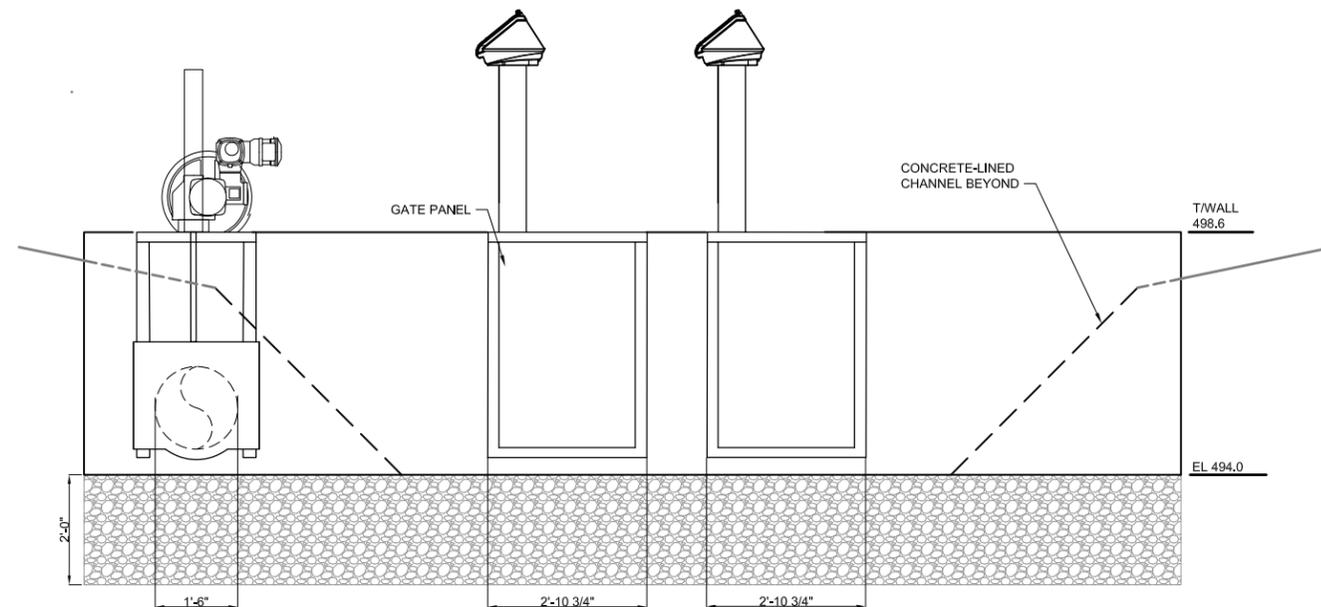
FISH SCREEN CIVIL PLAN

C207

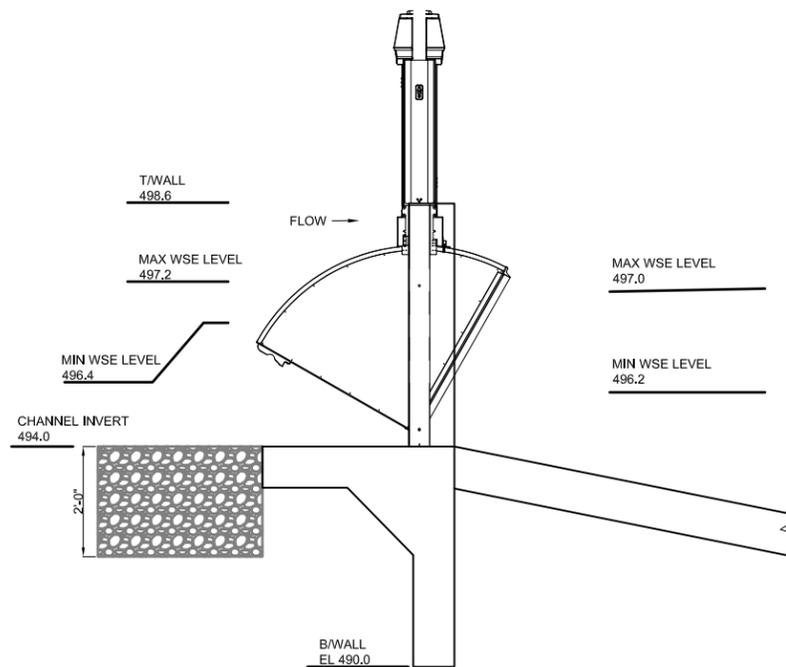
 SHEET # 31 OF 46



JUVENILE BYPASS GATE
SCALE: NOT TO SCALE



RUBICON GATES ELEVATION
SCALE: NOT TO SCALE



RUBICON GATES SECTION
SCALE: NOT TO SCALE



PLAN INTENDED TO BE VIEWED
IN COLOR, ADJACENT BLOCK IS
"BLUE"
ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

30% DESIGN: NOT FOR CONSTRUCTION

Aug 02, 2024 2:32pm T.MALONE C:\pwworking\west01\23978210\C208.dwg C208



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
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DESIGNED BY: T. MALONE
DRAWN BY: S. FITZROY
CHECKED BY: M. GARELLO
APPROVED BY: XXX
SCALE: AS NOTED
DATE: 6/14/2024

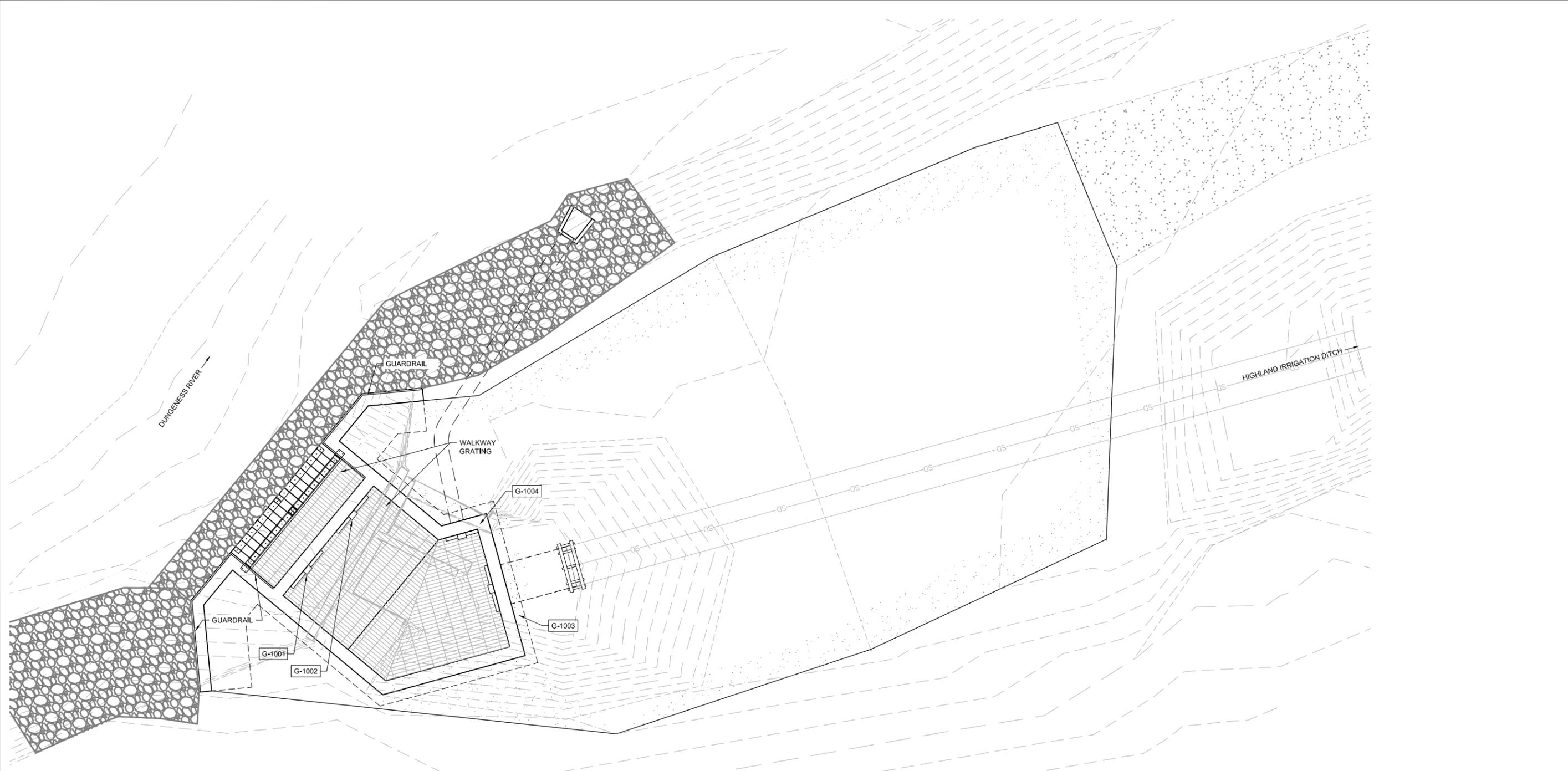
DUNGENESS OFF-CHANNEL RESERVOIR

**FISH SCREEN CIVIL
ELEVATION AND SECTIONS**

C208

SHEET # 32 OF 46

C:\pwworking\west01\25975210\M201.dwg M201
Aug 02, 2024 2:23pm T.MALONE



HEADWORKS PLAN
SCALE: 1" = 5'-0"



PLAN INTENDED TO BE VIEWED
IN COLOR. ADJACENT BLOCK IS
"BLUE"
ONE INCH
AT FULL SIZE. IF NOT ONE
INCH SCALE ACCORDINGLY

30% DESIGN: NOT FOR CONSTRUCTION



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
-	-	-	-	-

DESIGNED BY: T. MALONE
DRAWN BY: S. FITZROY
CHECKED BY: M. GARELLO
APPROVED BY: XXX
SCALE: AS NOTED
DATE: 6/14/2024

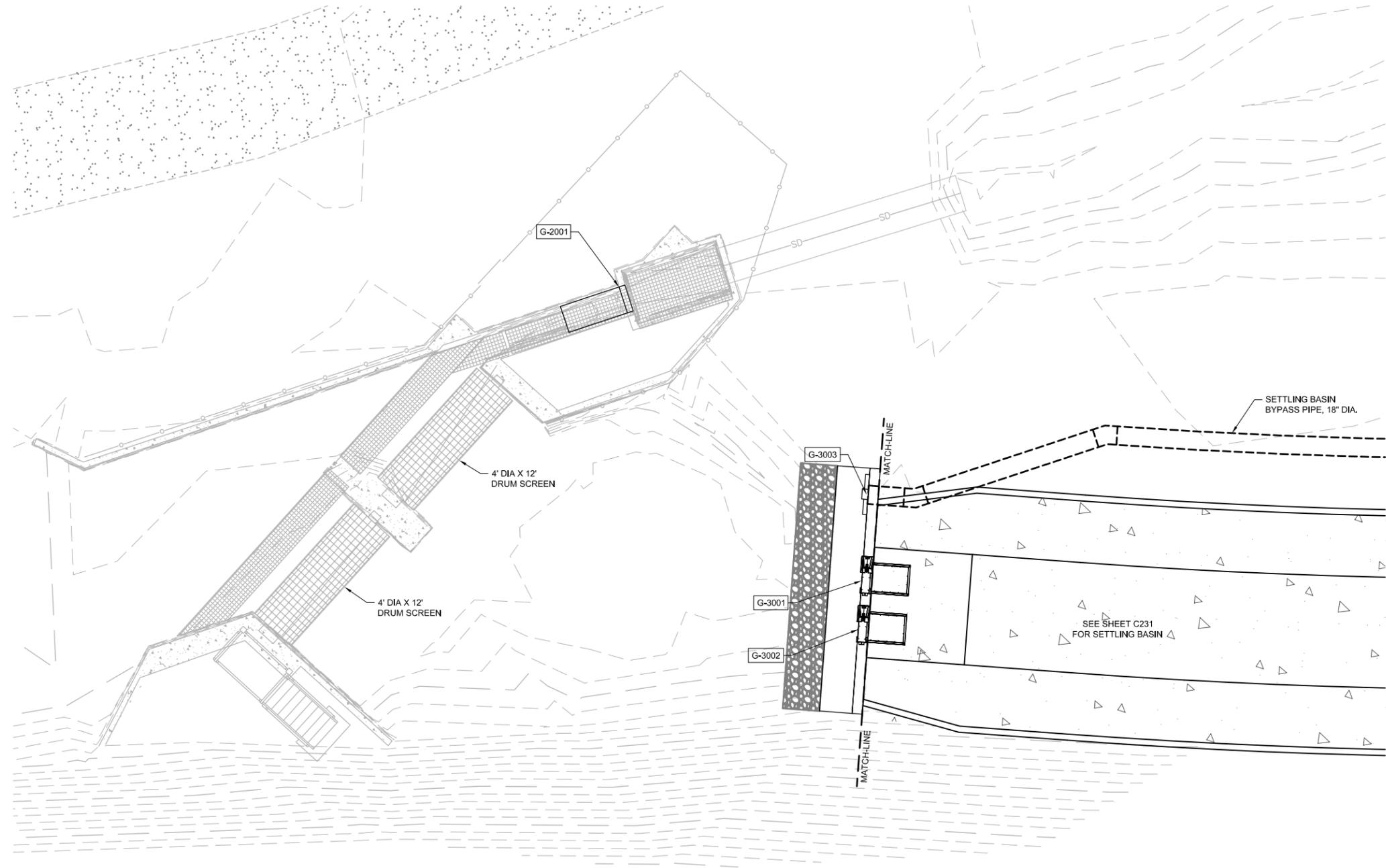
DUNGENESS OFF-CHANNEL RESERVOIR

**HEADWORKS
MECHANICAL PLAN**

M201

SHEET # 33 OF 46

C:\pwworking\west01\22978210\M202.dwg M202
Aug 02, 2024 2:51pm T.MALONE



PROPOSED PARTIAL PLAN
SCALE: 1" = 5'



PLAN INTENDED TO BE VIEWED
IN COLOR. ADJACENT BLOCK IS
"BLUE"
ONE INCH
AT FULL SIZE. IF NOT ONE
INCH SCALE ACCORDINGLY

30% DESIGN: NOT FOR CONSTRUCTION



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: T. MALONE
DRAWN BY: S. FITZROY
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APPROVED BY: XXX
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DATE: 6/14/2024

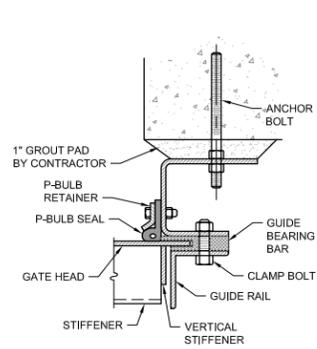
DUNGENESS OFF-CHANNEL RESERVOIR
FISH SCREEN MECHANICAL PLAN

M202
SHEET # 34 OF 46

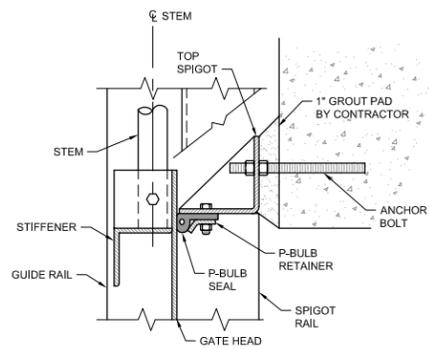
GATE SCHEDULE																						
TAG NO.	DESCRIPTION	PROCESS	TYPE	SIZE OF GATE OPENING WxH (IN)	OPENING INVERT EL (FT)	TOP OF WALL EL (FT)	HYDRAULIC HEAD (FT)		TYPE OF FRAME	MATERIAL	SEAL DETAIL TYPE			LIFT DEVICE			ELECTRICAL SERVICE				MAX STROKE TIME MINUTES	REMARKS
							SEAT	UNSEAT			TOP	BOTTOM	SIDE	TYPE	SERVICE	STEM	VOLTAGE	PHASE	HP	DUTY		
G-1001	HEADWORKS INTAKE	RES WATER	SLIDE GATE	48 x 24	500.5	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
G-1002	HEADWORKS INTAKE	RES WATER	SLIDE GATE	48 x 24	500.5	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
G-1003	CULVERT TO HIGHLAND IRRIGATION DITCH	RES WATER	SLIDE GATE	48 x 48	500.2	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
G-1004	BYPASS SLUICE PIPE	RES WATER	SLIDE GATE	24 x 24	500.2	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
G-2001	FISH BYPASS	BYPASS WATER	RAMP GATE	18 x 12	VARIABLE	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
G-3001	SCREEN SUBMERGENCE CONTROL GATE	RES WATER	RUBICON FLUME GATE	35.2 x 40.7	494.0	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
G-3002	SCREEN SUBMERGENCE CONTROL GATE	RES WATER	RUBICON FLUME GATE	35.2 x 40.7	494.0	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
G-3003	SETTLING BASIN BYPASS	RES WATER	SLIDE GATE	18 x 18	494.0	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

- NOTES:
- ALL GATES SHALL MEET THE REQUIREMENTS OF SPECIFICATION SECTION 35 20 16, 35 10 00, AND OTHER SPECIFICATION SECTIONS REFERENCED THEREIN.
 - GATE SEAL DETAILS ARE APPROXIMATE. COORDINATE WITH MANUFACTURER FOR FINAL SEAL DETAILS AND REQUIREMENTS.
 - SEALS WITH INTEGRAL THIMBLE FABRICATION NOT SHOWN. REFER TO MANUFACTURER FOR THIMBLE DETAILS.
 - GATE MANUFACTURER SHALL PROVIDE TORQUE REQUIREMENTS FOR SELECTION OF ACTUATOR MOTOR SIZE AND BEVEL GEAR RATIO TO ENSURE PROPER GATE OPERATION AND CONTROLS.
 - CONTRACTOR SHALL PROVIDE 1 PORTABLE GATE ACTUATORS. PORTABLE GATE ACTUATOR SHALL BE VALVE BOSS MODEL 70 WITH TELESCOPING WRENCH AND AWWA 2-INCH SQUARE DRIVE ADAPTER OR APPROVED EQUAL. VERIFY THAT FINAL TORQUE REQUIREMENTS ARE COMPATIBLE WITH PORTABLE GATE ACTUATOR.
 - WHERE NUT OPERATORS ARE DESIGNATED, PROVIDE SUFFICIENT BEVEL GEAR REDUCTION SUCH THAT TORQUE REQUIREMENTS FOR GATE OPERATION ARE COMPATIBLE WITH PORTABLE ACTUATOR CAPABILITY.
 - MAX STROKE TIME REFERS TO ONE FULL OPEN-CLOSE-OPEN CYCLE OF SLIDE GATE.

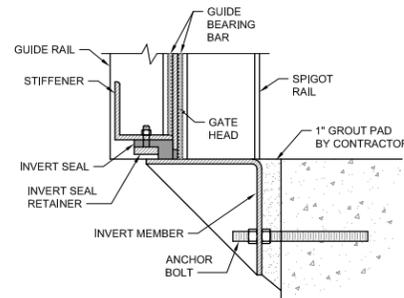
- ABBREVIATIONS:
- BHM - BOTTOM HINGE MOUNTED
 - CPA - COMPRESSED AIR
 - EMB - POST INSTALLED MORTAR EMBEDDED FRAME
 - EN - ENCASED OR ENCLOSED FRAME
 - FB - FLUSH BOTTOM
 - FG - FABRICATED SLIDE GATE
 - FL - FLAT BACK OR FLANGE BACK
 - HP - HORSEPOWER
 - MAN - MANUAL ONLY
 - MIN - MINUTES
 - MOA - MOTOR OPERATED ACTUATOR
 - MOD - MODULATING
 - NRS - NON RISING STEM
 - O/C - OPEN/CLOSE
 - NOP - NUT OPERATED DRIVE
 - RHW - REMOVABLE HAND WHEEL
 - RI - RIVER
 - RS - RISING STEM
 - SB - STANDARD BOTTOM
 - SC - SELF CONTAINED
 - THI - THIMBLE MOUNTED
 - WxH - WIDTH X HEIGHT



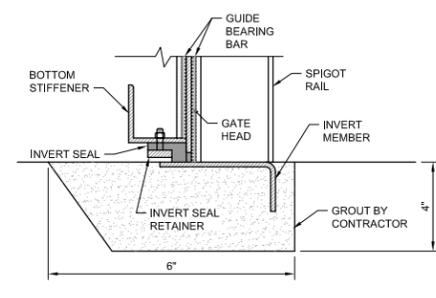
1 SLIDE OR WEIR GATE SIDE SEAL ---M203



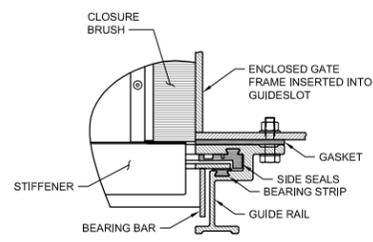
2 SLIDE GATE TOP SEAL ---M203



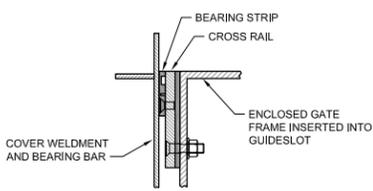
3 SLIDE GATE STANDARD BOTTOM SEAL ---M203



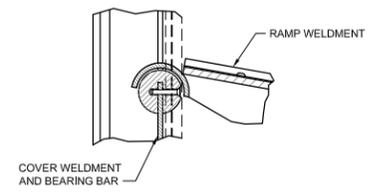
4 STANDARD FLUSH BOTTOM SEAL ---M203



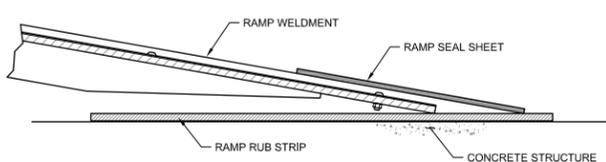
5 O/U ENCASED SIDE SEAL ---M203



6 O/U ENCASED TOP SEAL ---M203



7 RAMP CONNECTION AT CREST ---M203



8 RAMP SLIDE SUPPORT ---M203

ONE INCH
↑
↓
AT FULL SIZE. IF NOT ONE INCH SCALE ACCORDINGLY

PLAN INTENDED TO BE VIEWED IN COLOR. ADJACENT BLOCK IS "BLUE"

30% DESIGN: NOT FOR CONSTRUCTION

Aug 02, 2024 2:32pm T.MALONE c:\pwworking\west01\2578210\M203.dwg M203



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
-	-	-	-	-

DESIGNED BY: T. MALONE
 DRAWN BY: S. FITZROY
 CHECKED BY: M. GARELLO
 APPROVED BY: XXX
 SCALE: AS NOTED
 DATE: 6/14/2024

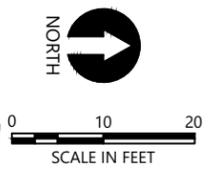
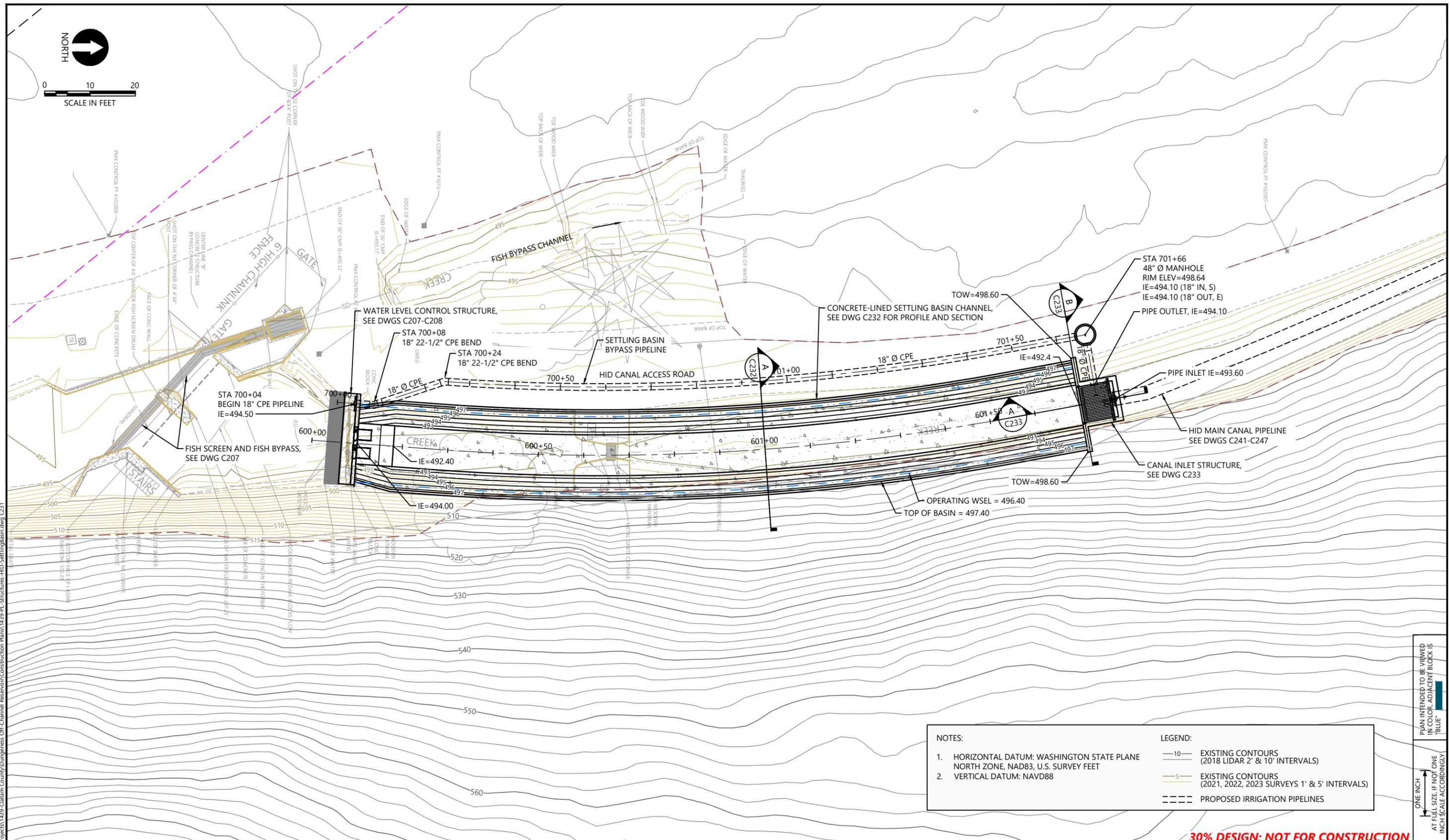
DUNGENESS OFF-CHANNEL RESERVOIR

M203

EQUIPMENT AND GATE SCHEDULE

SHEET # 35 OF 46

K:\Projects\1439-Clallam County\Dungeness Off-Channel Reservoir\Construction Plans\1439-PL-Structures-HID-SettlingBasin.dwg C231



NOTES:

- HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, U.S. SURVEY FEET
- VERTICAL DATUM: NAVD88

LEGEND:

- 10— EXISTING CONTOURS (2018 LIDAR 2' & 10' INTERVALS)
- 5— EXISTING CONTOURS (2021, 2022, 2023 SURVEYS 1' & 5' INTERVALS)
- - - - PROPOSED IRRIGATION PIPELINES

30% DESIGN: NOT FOR CONSTRUCTION

PLAN INTENDED TO BE VIEWED IN COLOR. ADJACENT BLOCK IS "BLUE"
 ONE INCH AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

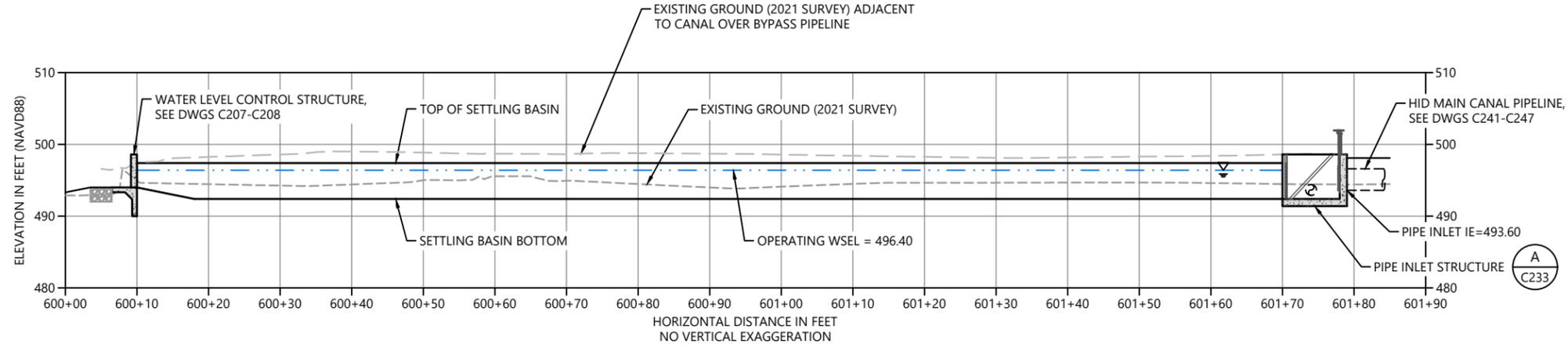
DESIGNED BY: G. HART
 DRAWN BY: T. GRIGA
 CHECKED BY: D. RICE
 APPROVED BY: D. RICE
 SCALE: AS NOTED
 DATE: JULY 2024

DUNGENESS OFF-CHANNEL RESERVOIR
HID SETTLING BASIN PLAN

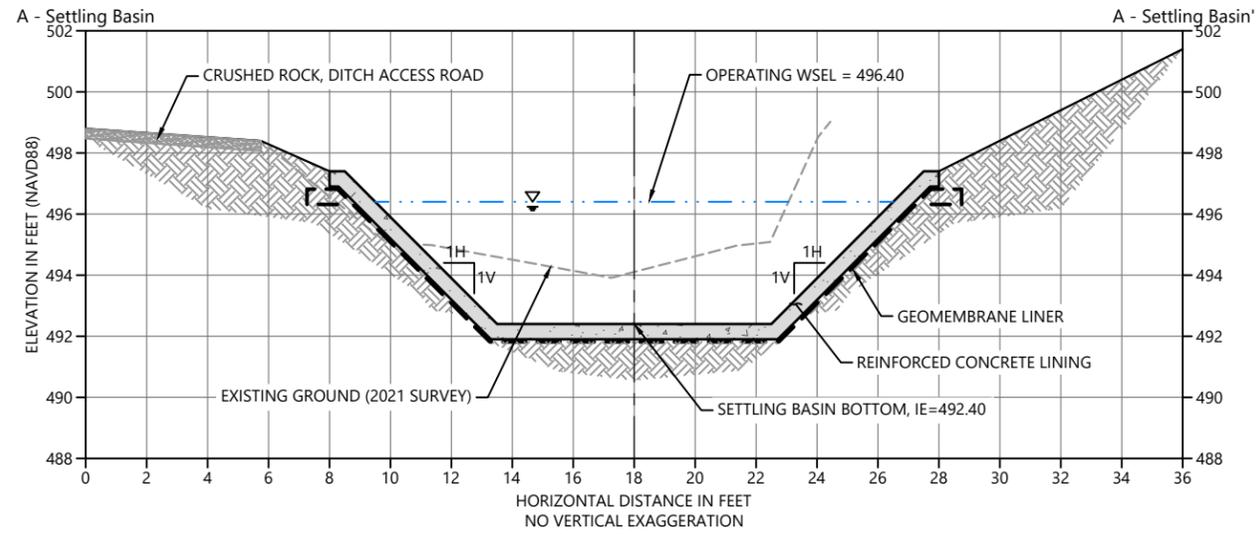
C231

SHEET # **33** OF **46**

K:\Projects\1439-Clallam County\Dungeness Off-Channel Reservoir\Construction Plans\1439-PL-Structures-HID-SettlingBasin.dwg, C232
Aug 05, 2024 1:19pm d.rice



1 **SETTLING BASIN PROFILE**
C231 SCALE: 1" = 10'



A **SETTLING BASIN SECTION**
C231 SCALE: 1" = 3'

ONE INCH
↑
AT FULL SIZE IF NOT ONE
INCH SCALE ACCORDINGLY

PLAN INTENDED TO BE VIEWED
IN COLOR. ADJACENT BLOCK IS
"BLUE"

30% DESIGN: NOT FOR CONSTRUCTION



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

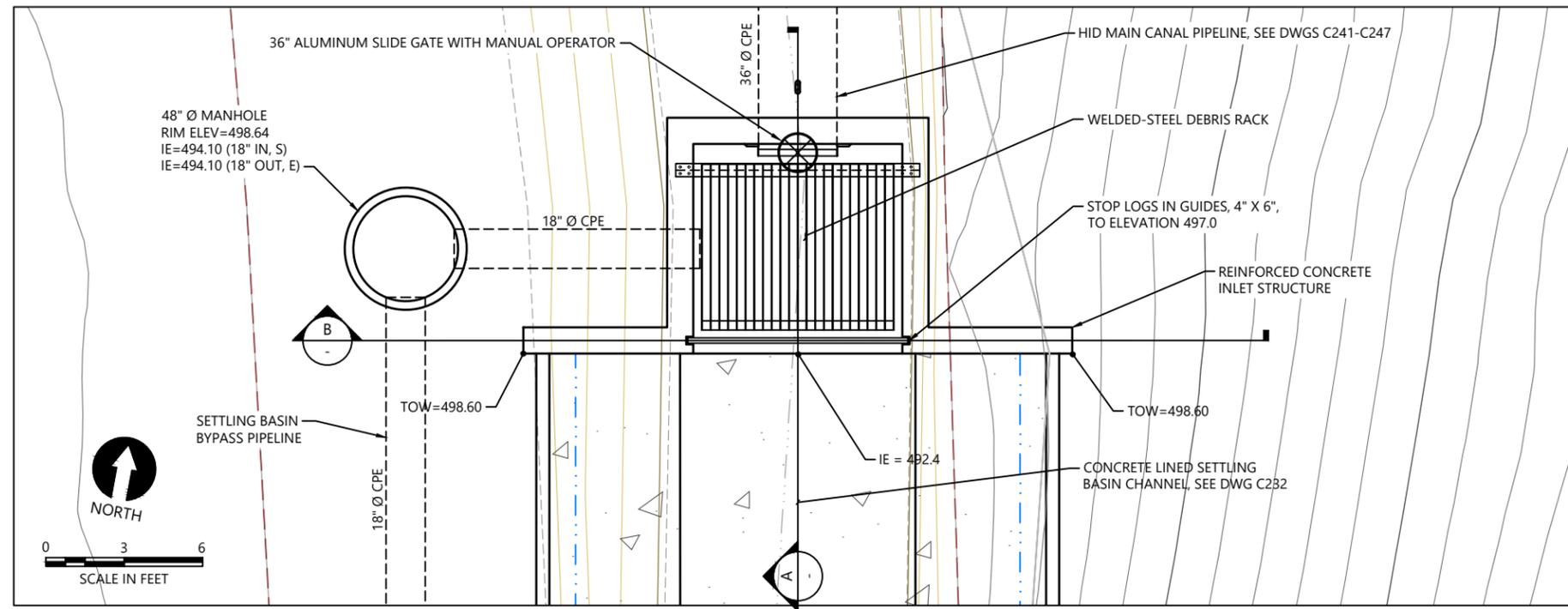
DESIGNED BY: G. HART
 DRAWN BY: T. GRIGA
 CHECKED BY: D. RICE
 APPROVED BY: D. RICE
 SCALE: AS NOTED
 DATE: JULY 2024

DUNGENESS OFF-CHANNEL RESERVOIR

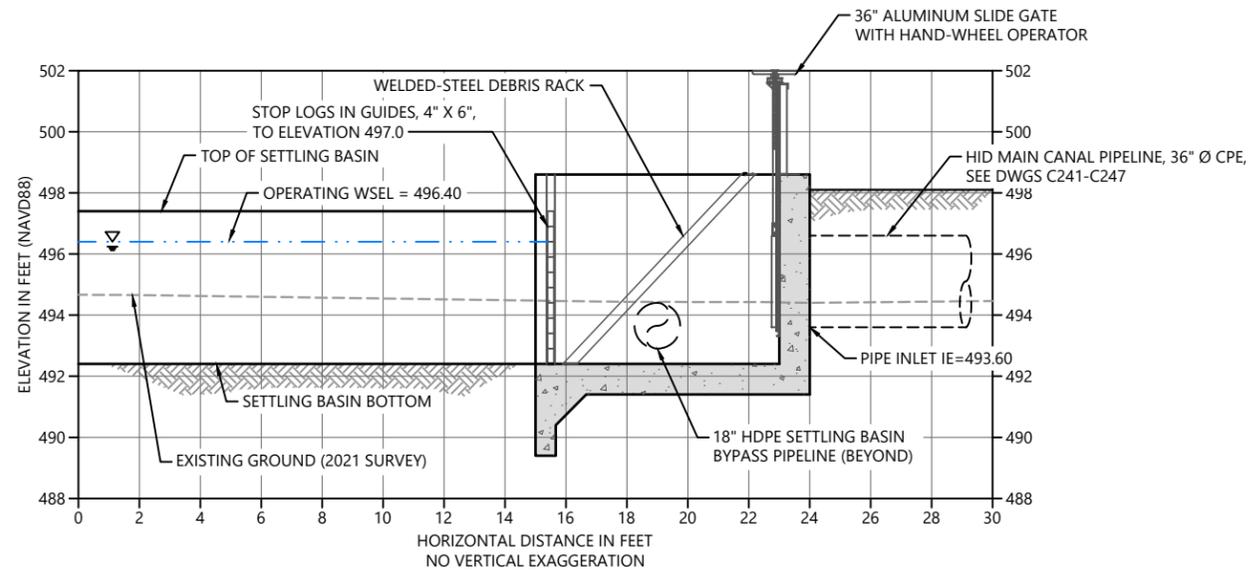
HID SETTling BASIN PROFILE AND SECTION

C232

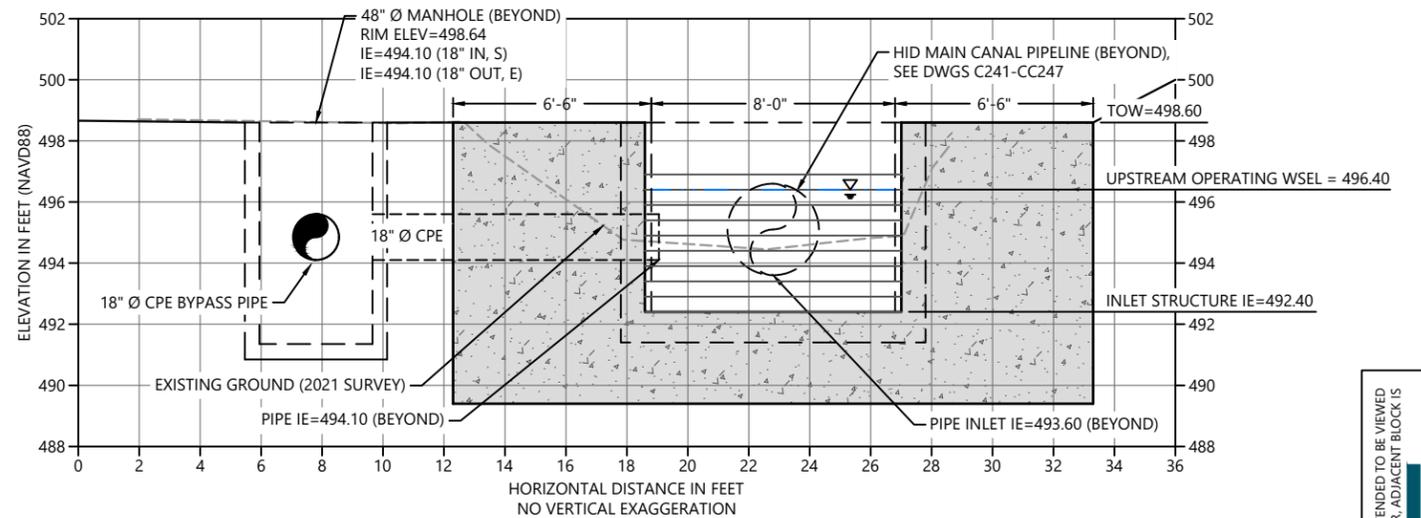
SHEET # **34** OF **46**



1 INLET STRUCTURE PLAN
SCALE: 1" = 3'



A INLET STRUCTURE SECTION
SCALE: 1" = 3'



B INLET STRUCTURE SECTION
SCALE: 1" = 3'

PLAN INTENDED TO BE VIEWED
IN COLOR. ADJACENT BLOCK IS
"BLUE"
ONE INCH
AT FULL SIZE. IF NOT ONE
INCH SCALE ACCORDINGLY

30% DESIGN: NOT FOR CONSTRUCTION

K:\Projects\1439-Callam County\Design\Off-Channel Reservoir\Construction Plans\1439-PL-Structures-HID-SettlingBasin.dwg C233
Aug 05, 2024 1:19pm d.rice



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

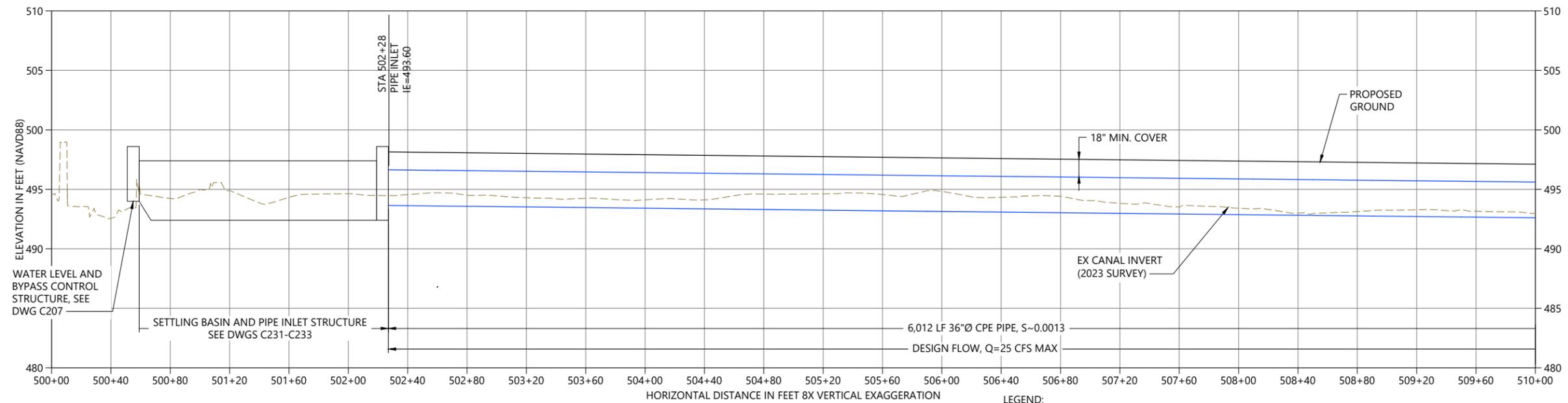
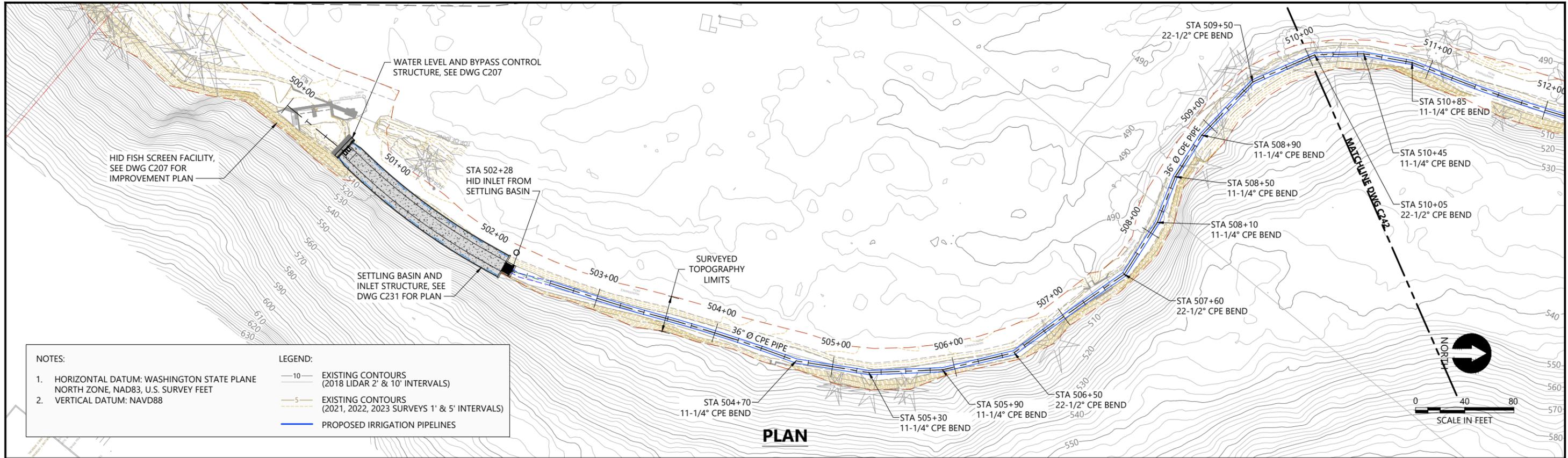
DESIGNED BY: G. HART
DRAWN BY: T. GRIGA
CHECKED BY: D. RICE
APPROVED BY: D. RICE
SCALE: AS NOTED
DATE: JULY 2024

DUNGENESS OFF-CHANNEL RESERVOIR

**HID PIPELINE INLET STRUCTURE PLAN
AND SECTIONS**

C233

SHEET # **35** OF **46**



LEGEND:

- 2022 SURVEY 2' AND 10' CONTOURS
- 2018 LIDAR 2' AND 10' CONTOURS
- SURFACE AT PIPELINE CENTERLINE
- PROJECTED SURFACE OF CHANNEL CENTERLINE

30% DESIGN: NOT FOR CONSTRUCTION

K:\Projects\1439-Callam County\Design\Off-Channel Reservoir\Construction Plans\1439-PL-PlanProfile-HIDcanal.dwg C241



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: G. HART
 DRAWN BY: T. GRIGA
 CHECKED BY: D. RICE
 APPROVED BY: D. RICE
 SCALE: AS NOTED
 DATE: JULY 2024

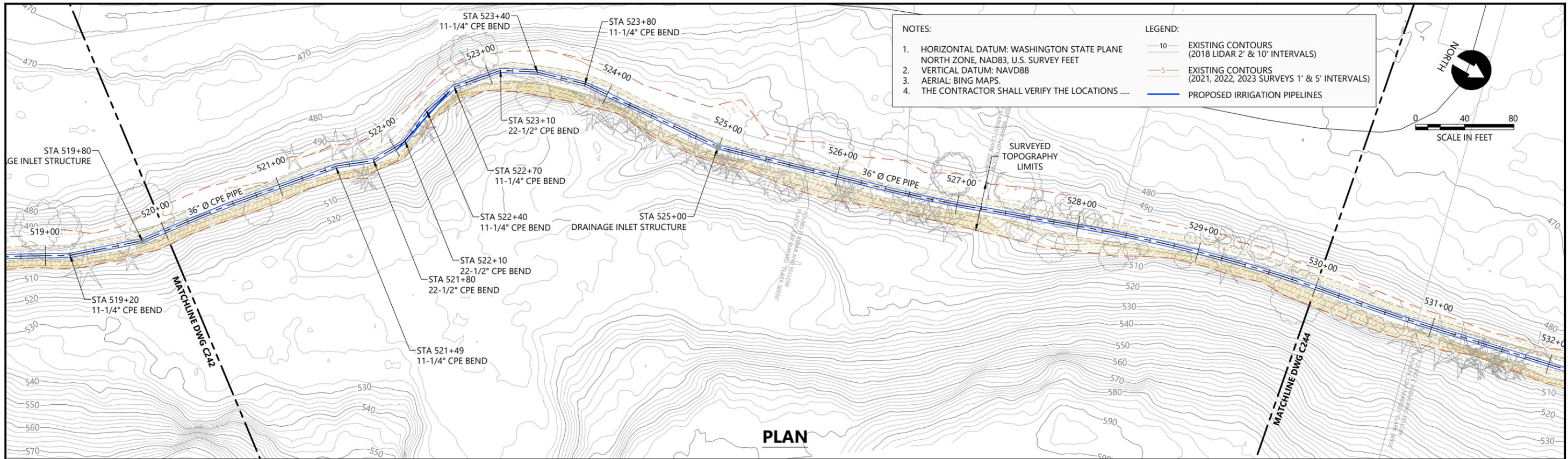
DUNGENESS OFF-CHANNEL RESERVOIR

HID MAIN CANAL PIPELINE, PLAN AND PROFILE STA 500+00 TO 510+00

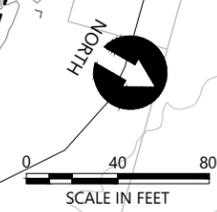
C241

SHEET # 36 OF 46

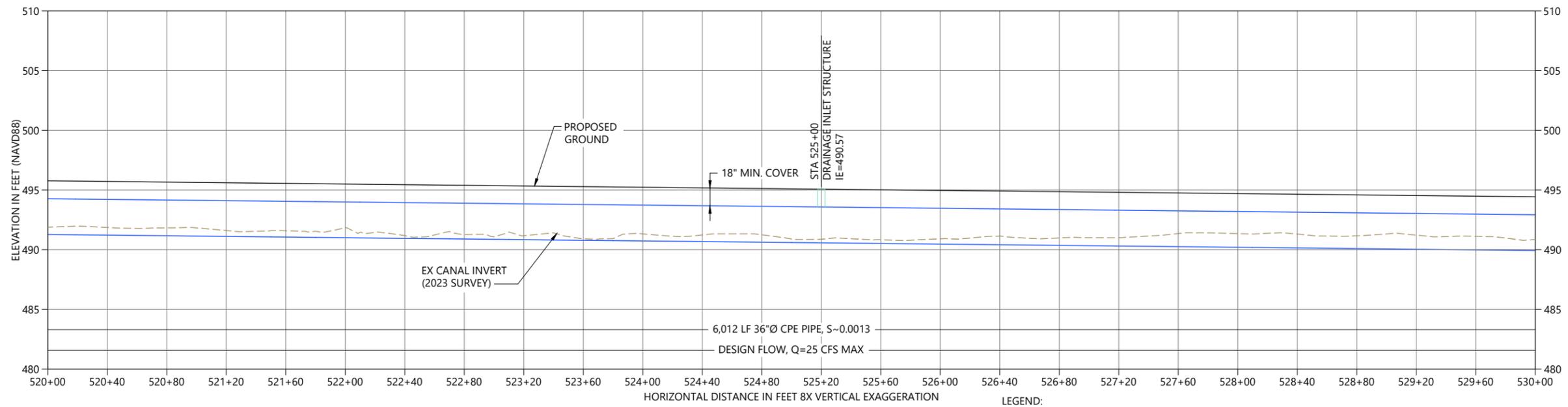
PLAN INTENDED TO BE VIEWED IN COLOR. ADJACENT BLOCK IS "BLUE" INCH SCALE ACCORDINGLY



- NOTES:**
- HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, U.S. SURVEY FEET
 - VERTICAL DATUM: NAVD88
 - AERIAL: BING MAPS.
 - THE CONTRACTOR SHALL VERIFY THE LOCATIONS
- LEGEND:**
- 10— EXISTING CONTOURS (2018 LIDAR 2' & 10' INTERVALS)
 - 5— EXISTING CONTOURS (2021, 2022, 2023 SURVEYS 1' & 5' INTERVALS)
 - PROPOSED IRRIGATION PIPELINES



PLAN



PROFILE

- LEGEND:**
- 2022 SURVEY 2' AND 10' CONTOURS
 - 2018 LIDAR 2' AND 10' CONTOURS
 - SURFACE AT PIPELINE CENTERLINE
 - PROJECTED SURFACE OF CHANNEL CENTERLINE

PLAN INTENDED TO BE VIEWED IN COLOR. ADJACENT BLOCK IS "BLUE"
 ONE INCH AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY

30% DESIGN: NOT FOR CONSTRUCTION

K:\Projects\1439-Clallam County\Durgeness Off-Channel Reservoir\Construction Plans\1439-PL-PlanProfile-HIDcanal.dwg C243 Aug 05, 2024 1:20pm office



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: G. HART
 DRAWN BY: T. GRIGA
 CHECKED BY: D. RICE
 APPROVED BY: D. RICE
 SCALE: AS NOTED
 DATE: JULY 2024

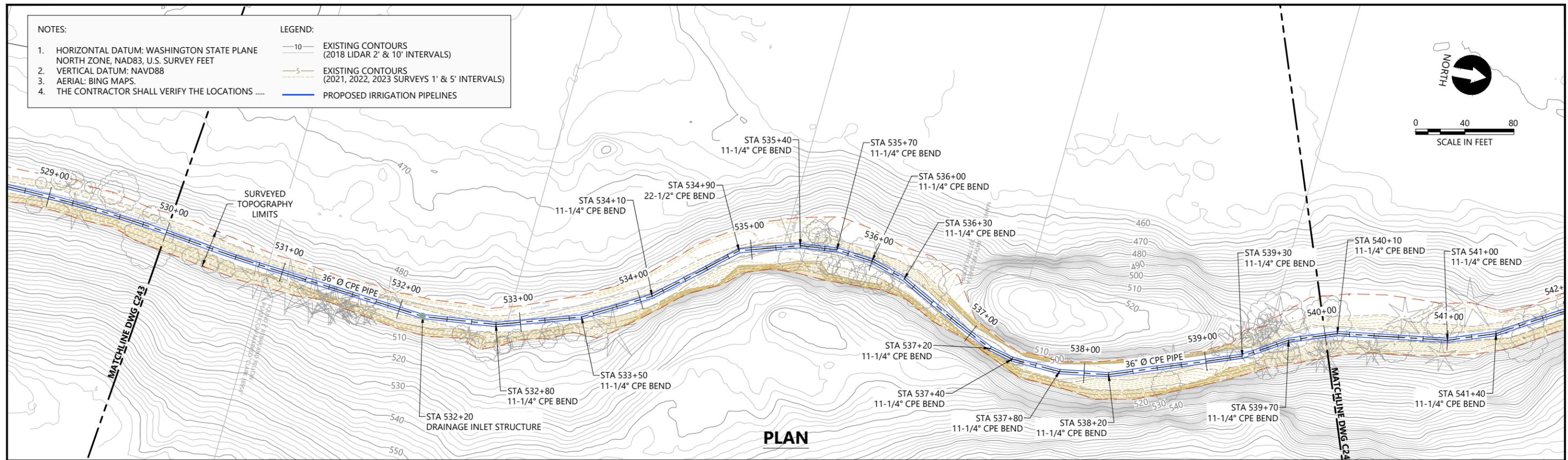
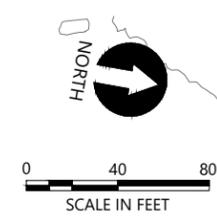
DUNGENESS OFF-CHANNEL RESERVOIR

HID MAIN CANAL PIPELINE, PLAN AND PROFILE STA 520+00 TO 530+00

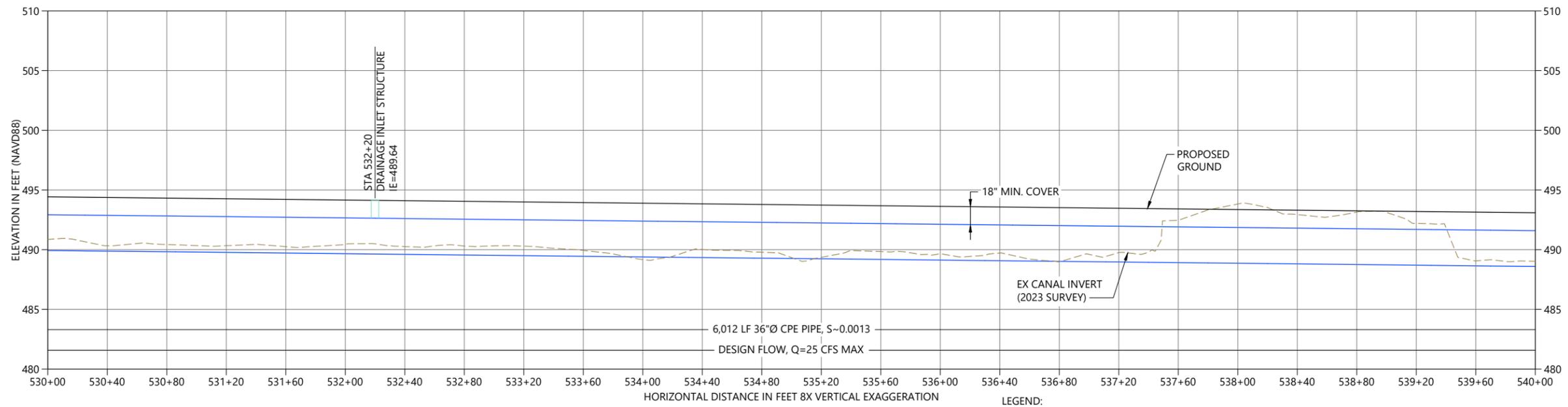
C243

SHEET # 38 OF 46

- NOTES:
- HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, U.S. SURVEY FEET
 - VERTICAL DATUM: NAVD88
 - AERIAL: BING MAPS.
 - THE CONTRACTOR SHALL VERIFY THE LOCATIONS
- LEGEND:
- EXISTING CONTOURS (2018 LIDAR 2' & 10' INTERVALS)
 - EXISTING CONTOURS (2021, 2022, 2023 SURVEYS 1' & 5' INTERVALS)
 - PROPOSED IRRIGATION PIPELINES



PLAN



PROFILE

- LEGEND:
- 2022 SURVEY 2' AND 10' CONTOURS
 - 2018 LIDAR 2' AND 10' CONTOURS
 - SURFACE AT PIPELINE CENTERLINE
 - PROJECTED SURFACE OF CHANNEL CENTERLINE

PLAN INTENDED TO BE VIEWED IN COLOR. ADJACENT BLOCK IS "BLUE" AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY

30% DESIGN: NOT FOR CONSTRUCTION

K:\Projects\1439-Clallam County\Design\Off-Channel Reservoir\Construction Plans\1439-PL-PlanProfile-HIDcanal.dwg C244



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: G. HART
 DRAWN BY: T. GRIGA
 CHECKED BY: D. RICE
 APPROVED BY: D. RICE
 SCALE: AS NOTED
 DATE: JULY 2024

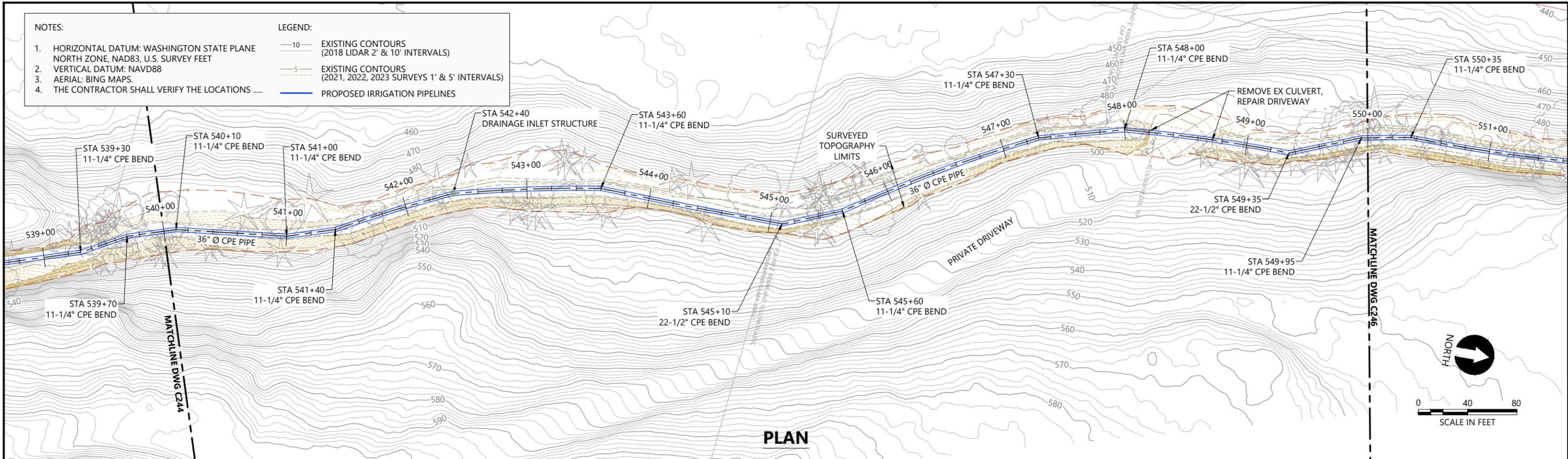
DUNGENESS OFF-CHANNEL RESERVOIR

HID MAIN CANAL PIPELINE, PLAN AND PROFILE STA 530+00 TO 540+00

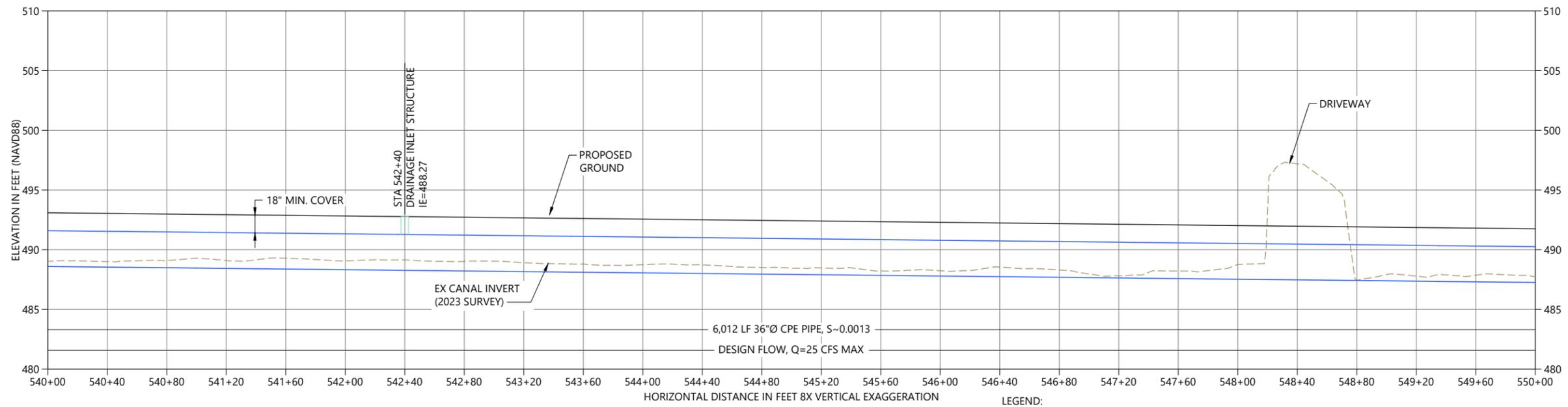
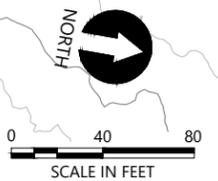
C244

SHEET # **39** OF **46**

- NOTES:
- HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, U.S. SURVEY FEET
 - VERTICAL DATUM: NAVD88
 - AERIAL: BING MAPS.
 - THE CONTRACTOR SHALL VERIFY THE LOCATIONS
- LEGEND:
- 10' - EXISTING CONTOURS (2018 LIDAR 2' & 10' INTERVALS)
 - 5' - EXISTING CONTOURS (2021, 2022, 2023 SURVEYS 1' & 5' INTERVALS)
 - PROPOSED IRRIGATION PIPELINES



PLAN



PROFILE

- LEGEND:
- 2022 SURVEY 2' AND 10' CONTOURS
 - 2018 LIDAR 2' AND 10' CONTOURS
 - SURFACE AT PIPELINE CENTERLINE
 - PROJECTED SURFACE OF CHANNEL CENTERLINE

30% DESIGN: NOT FOR CONSTRUCTION

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Aug 05, 2024 1:21 pm office



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: G. HART
 DRAWN BY: T. GRIGA
 CHECKED BY: D. RICE
 APPROVED BY: D. RICE
 SCALE: AS NOTED
 DATE: JULY 2024

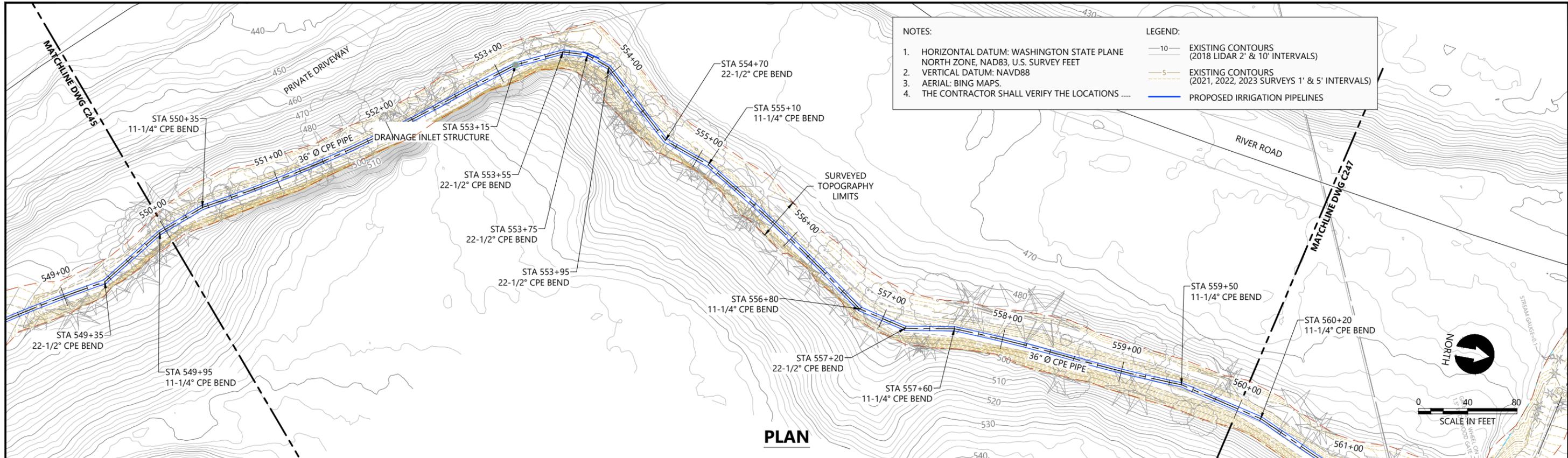
DUNGENESS OFF-CHANNEL RESERVOIR

HID MAIN CANAL PIPELINE, PLAN AND PROFILE STA 540+00 TO 550+00

C245

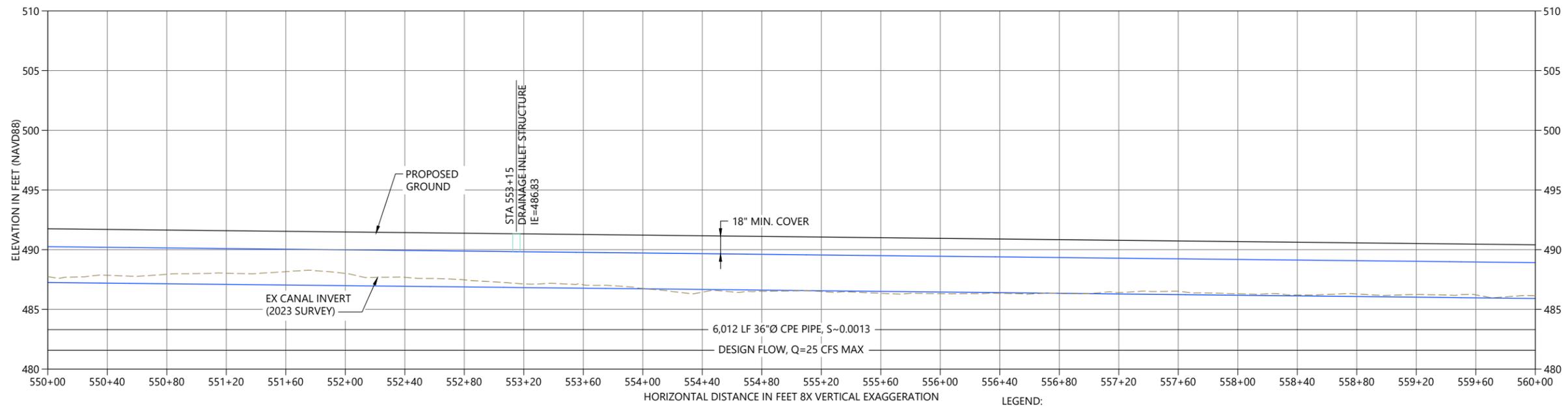
SHEET # **40** OF **46**

PLAN INTENDED TO BE VIEWED IN COLOR. ADJACENT BLOCK IS "BLUE" INCH SCALE ACCORDINGLY



- NOTES:**
- HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, U.S. SURVEY FEET
 - VERTICAL DATUM: NAVD88
 - AERIAL: BING MAPS.
 - THE CONTRACTOR SHALL VERIFY THE LOCATIONS
- LEGEND:**
- EXISTING CONTOURS (2018 LIDAR 2' & 10' INTERVALS)
 - EXISTING CONTOURS (2021, 2022, 2023 SURVEYS 1' & 5' INTERVALS)
 - PROPOSED IRRIGATION PIPELINES

PLAN



PROFILE

- LEGEND:**
- 2022 SURVEY 2' AND 10' CONTOURS
 - 2018 LIDAR 2' AND 10' CONTOURS
 - SURFACE AT PIPELINE CENTERLINE
 - PROJECTED SURFACE OF CHANNEL CENTERLINE

30% DESIGN: NOT FOR CONSTRUCTION

K:\Projects\1439-Clallam County\Dungeness Off-Channel Reservoir\Construction Plans\1439-PL-PlanProfile-HIDcanal.dwg C246



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: G. HART
 DRAWN BY: T. GRIGA
 CHECKED BY: D. RICE
 APPROVED BY: D. RICE
 SCALE: AS NOTED
 DATE: JULY 2024

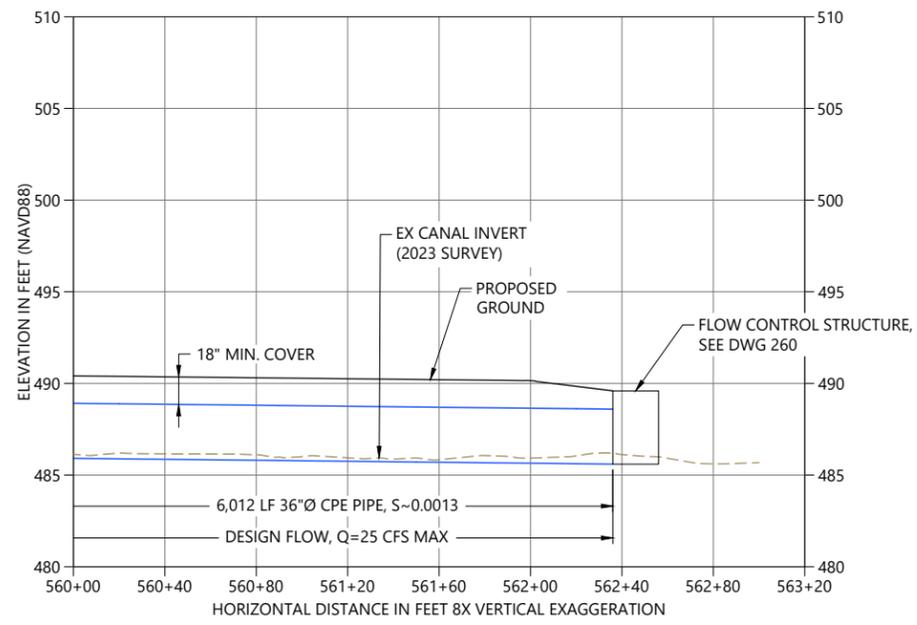
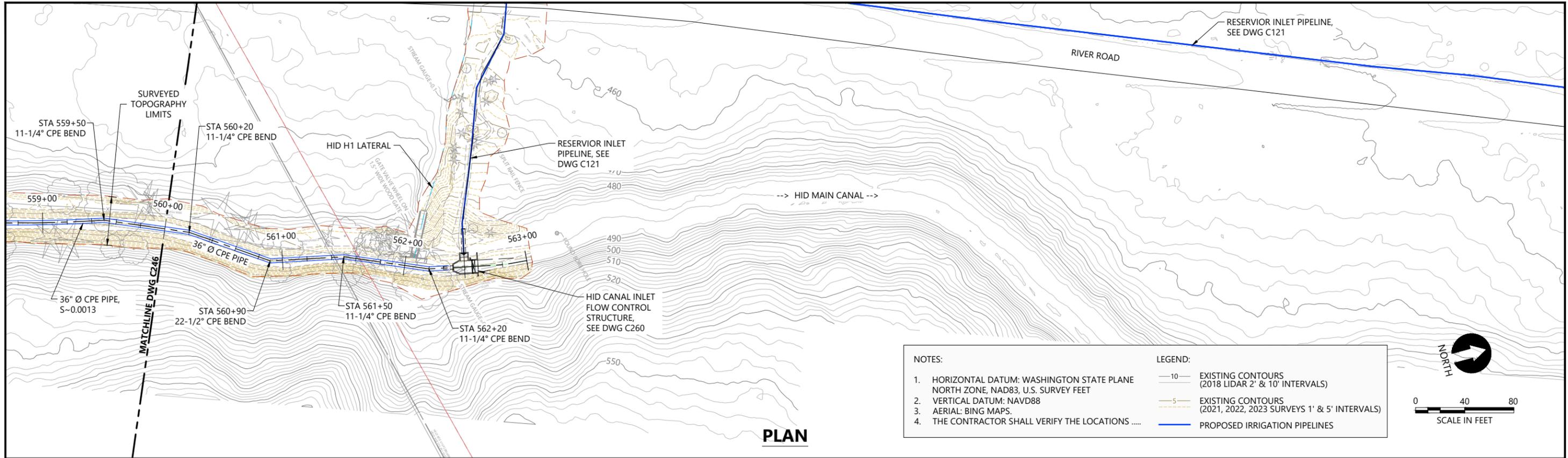
DUNGENESS OFF-CHANNEL RESERVOIR

HID MAIN CANALL PIPELINE, PLAN AND PROFILE STA 550+00 TO 560+00

C246

SHEET # **41** OF **46**

PLAN INTENDED TO BE VIEWED IN COLOR. ADJACENT BLOCK IS "BLUE" INCH SCALE ACCORDINGLY



K:\Projects\1439-Clallam County\Dungeness Off-Channel Reservoir\Construction Plans\1439-PL-PlanProfile-HIDcanal.dwg C247

PLAN INTENDED TO BE VIEWED IN COLOR. ADJACENT BLOCK IS "BLUE" INCH SCALE ACCORDINGLY

30% DESIGN: NOT FOR CONSTRUCTION



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

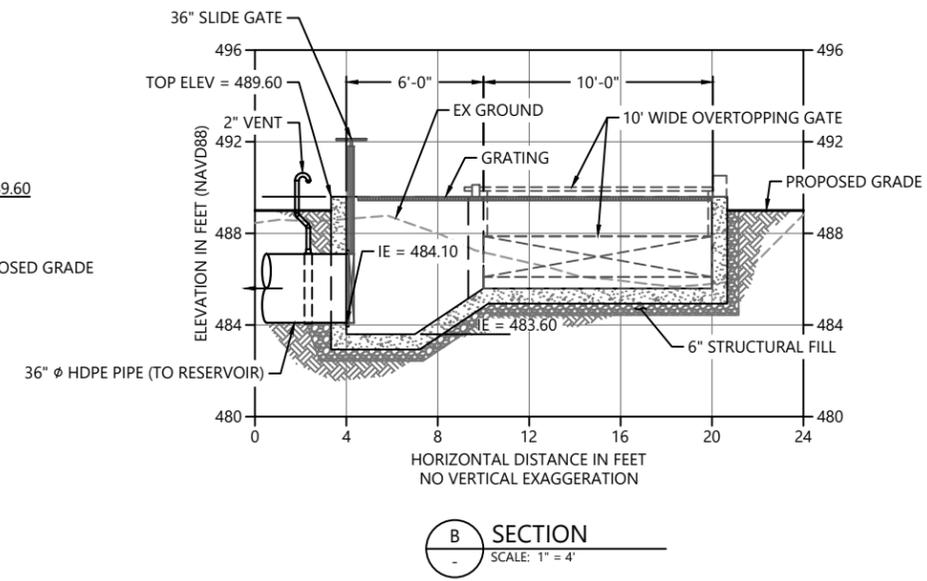
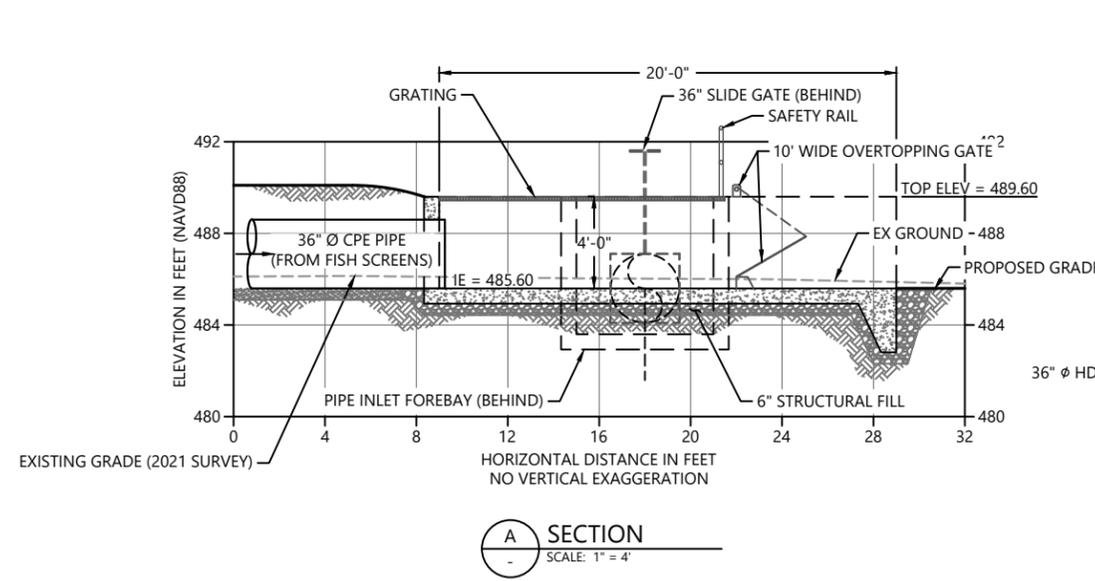
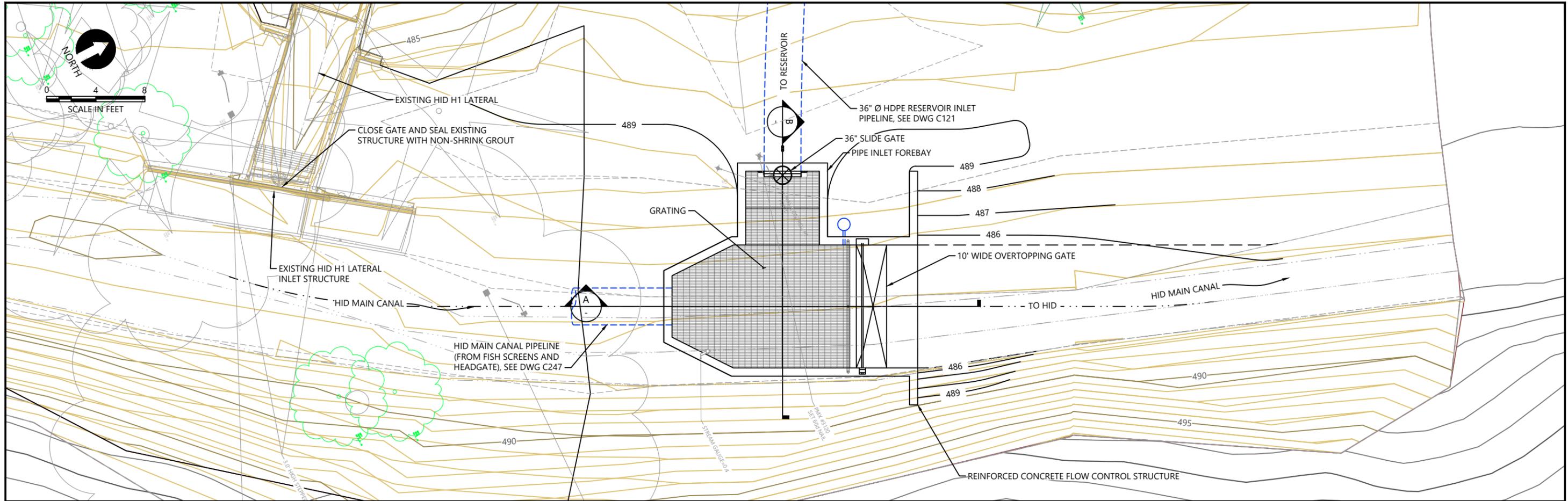
DESIGNED BY: G. HART
 DRAWN BY: T. GRIGA
 CHECKED BY: D. RICE
 APPROVED BY: D. RICE
 SCALE: AS NOTED
 DATE: JULY 2024

DUNGENESS OFF-CHANNEL RESERVOIR

HID MAIN CANAL PIPELINE, PLAN AND PROFILE STA 560+00 TO END

C247

SHEET # 42 OF 46



30% DESIGN: NOT FOR CONSTRUCTION

K:\Projects\1439-Callam County\Dungeness Off-Channel Reservoir\Construction Plans\1439-PL-Structures.dwg, C260



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: G. HART

DRAWN BY: T. GRIGA

CHECKED BY: D. RICE

APPROVED BY: D. RICE

SCALE: AS NOTED

DATE: JULY 2024

DUNGENESS OFF-CHANNEL RESERVOIR

RESERVOIR INLET FLOW CONTROL STRUCTURE PLAN AND SECTIONS

C260

SHEET # **43** OF **46**

PLAN INTENDED TO BE VIEWED IN COLOR. ADJACENT BLOCK IS "BLUE" ONE INCH AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY