

Filter Building Installation

Fine settling pond (metal canopy being installed)

Screened water chamber

Distribution Box 2 expansion

Expanded pump back system

Existing mitigation planting area (as part of 2017 renovation)

Approximate location of 3797 SF of mitigation plantings

© 2021 Google

Google Earth

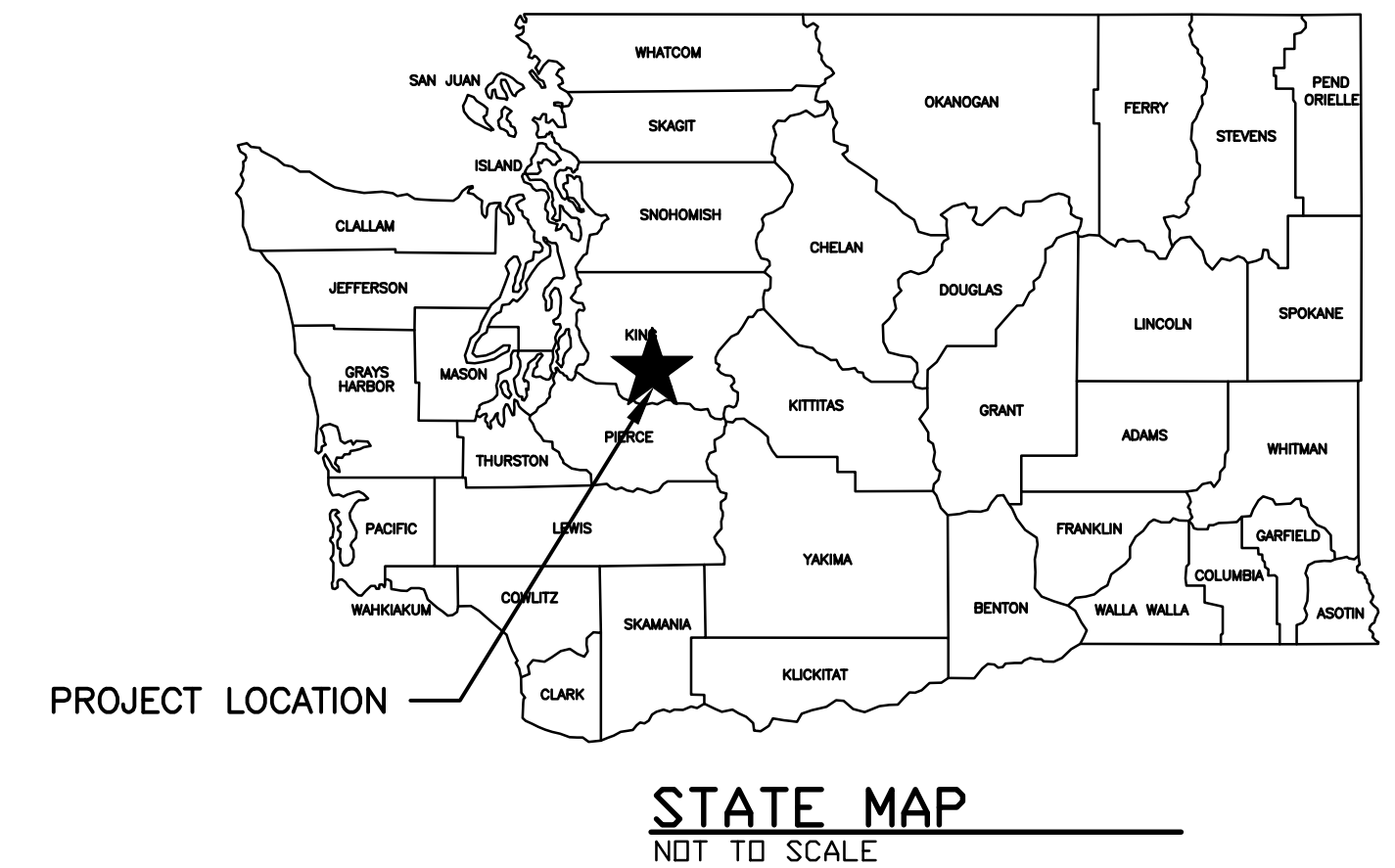
1985

Imagery Date: 8/14/2020 lat 47.309240° lon -122.166456° elev 0 ft eye alt 1921 ft



WASHINGTON DEPARTMENT OF FISH AND WILDLIFE

SOOS CREEK HATCHERY WATER SUPPLY TREATMENT SCHEMATIC DESIGN DRAWINGS



OWNER:

WASHINGTON DEPARTMENT OF FISH AND WILDLIFE
600 CAPITOL WAY NORTH
OLYMPIA, WA 98501
(360-902-8300)

PROJECT ADDRESS

SOOS CREEK FISH HATCHERY
13030 SE AUBURN-BLACK DIAMOND ROAD
AUBURN, WA 98092
KING COUNTY

LEGAL DESCRIPTIONS:

PARCEL 162105-9005
SE 1/4 OF NE 1/4 LESS NP R/W LESS CO RD & LESS ST HWY
PARCEL 162105-9015
POR OF NE 1/4 OF SE 1/4 LY NWLY OF H H HOWARD RD
PARCEL 162105-9033
BEG SE COR OF NE 1/4 OF NE 1/4 TH N 89-15-09 W 601.20 FT TO
ELY R/W NP RW TH NELY ALG SD R/W 290.70 FT TH S 60-20-00 E
526.24 FT TO POB LESS CO RD

SITE ZONING:

COUNTY ZONING CLASSIFICATION
A-10 AGRICULTURAL, ONE DU PER 10 ACRES
SHORELINE ENVIRONMENTAL DESIGNATION
RESOURCE SHORELINE (ABOVE OHW)/ AQUATIC SHORELINE (BELOW OHW)

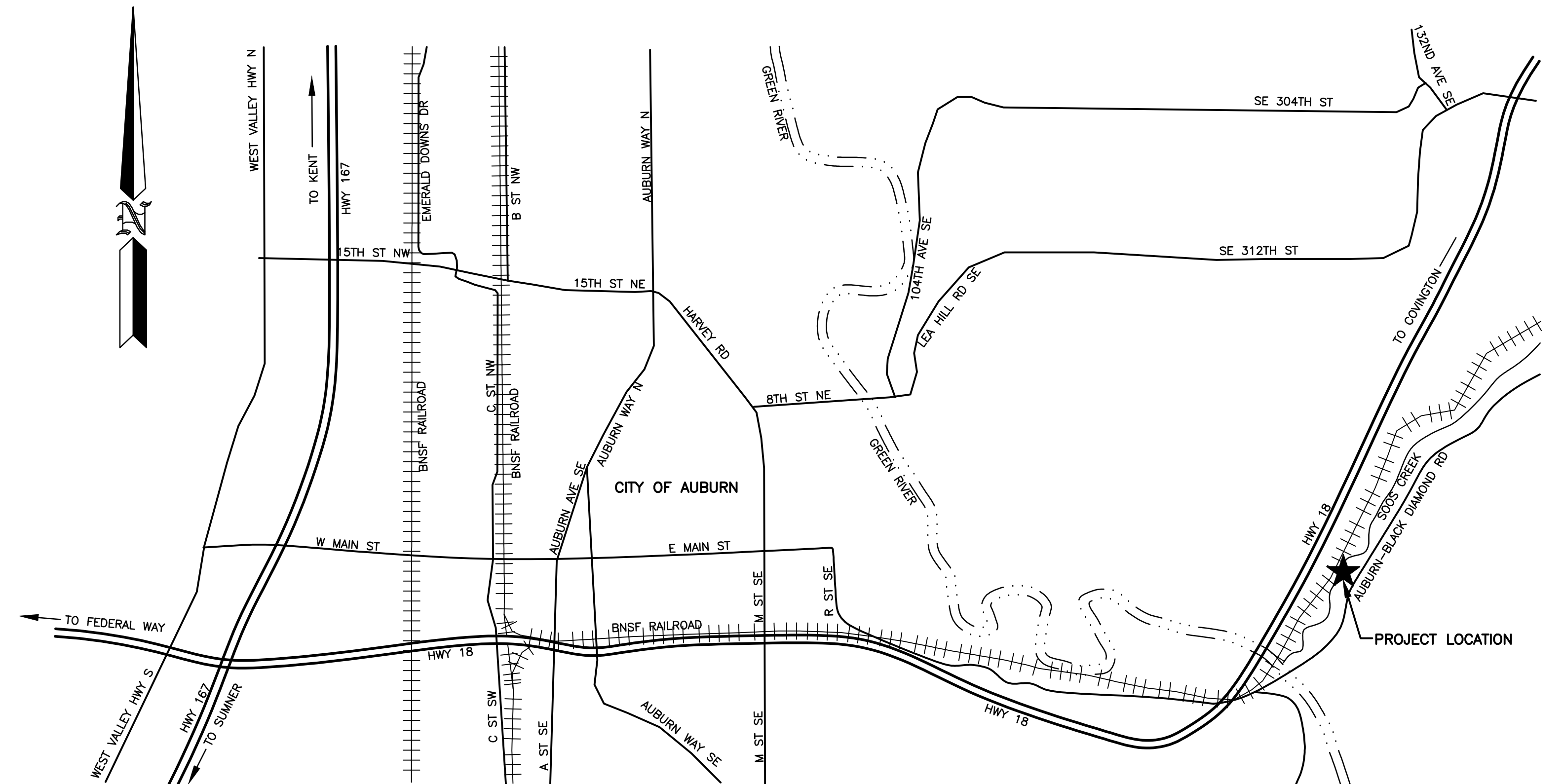
PROJECT SUMMARY:

THE PROPOSED IMPROVEMENTS ARE FOR ADDRESSING FISH DISEASE ISSUES AT THE HATCHERY, IMPROVING WATER REUSE CAPABILITIES, IMPROVING SEDIMENT MANAGEMENT PROCESSES, AND ADDRESSING WATER SUPPLY HYDRAULIC LIMITATIONS IN VARIOUS LOCATIONS

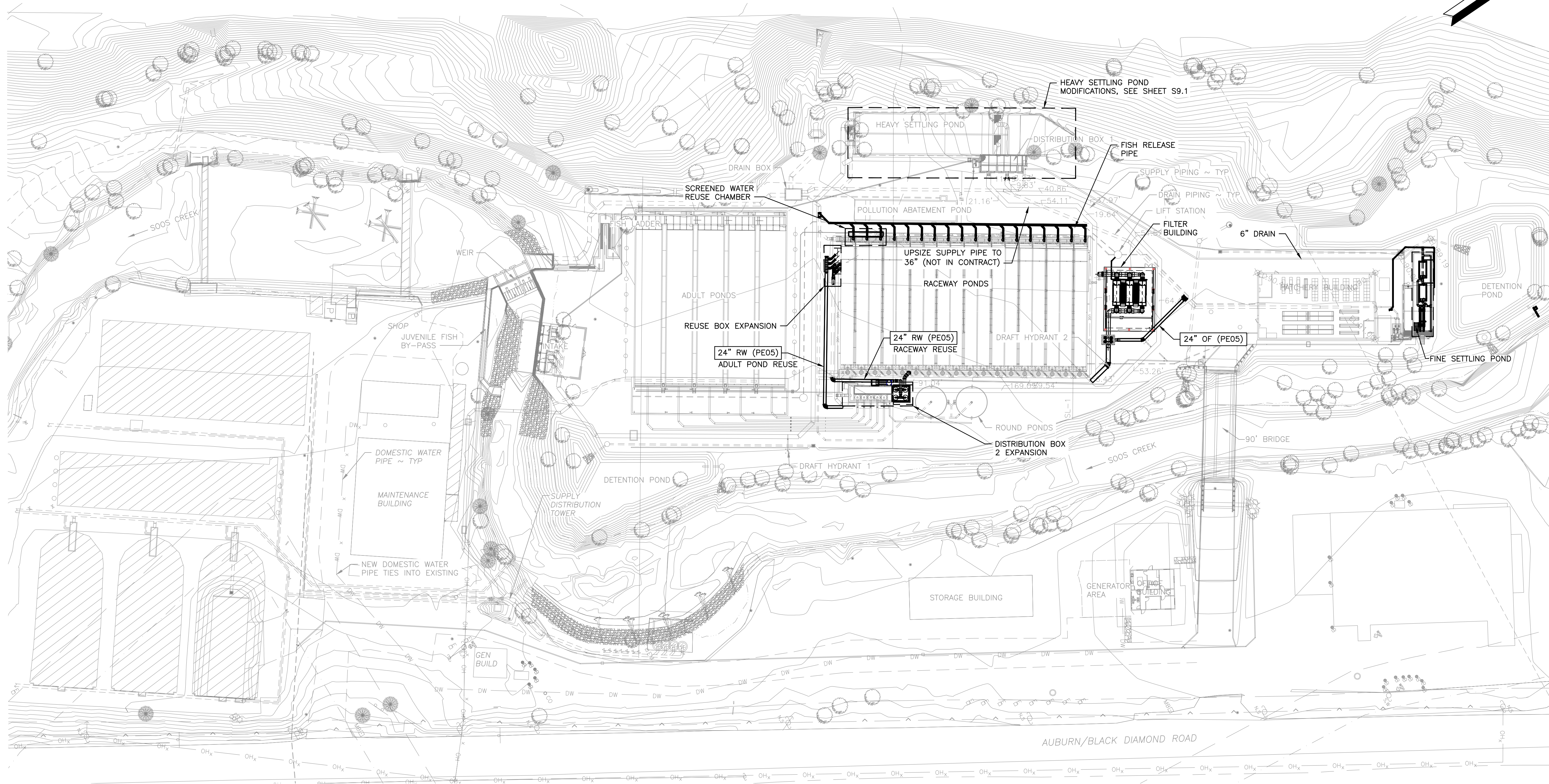
SURVEY REFERENCES:

STATE OF WASHINGTON UNRECORDED SURVEY OF GREEN RIVER HATCHERY DATED JUNE, 19 1970.
N.P.R. PALMER CUT-OFF RIGHT OF WAY PLAT N2-R21 RECORDED JULY 10, 1970.
KING COUNTY WASHINGTON SHORT PLAT NO. 179036.
KING COUNTY SURVEY NO. 558 H.H. HOWARD ROAD.
HORIZONTAL DATUM:
NAD 83(2011) EPOCH 2010.00 WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, US SURVEY FEET.
COMBINED SCALE FACTOR: 1.00004086
CONVERGENCE ANGLE: -00°59'32.02"

VERTICAL DATUM:
NAVD 88 (GEOID 2012) (CONTROL SET DURING SURVEY PERFORMED ON SOOS CREEK HATCHERY IN 2012.)



PROJECT NO. PROJECT	
SHEET	OF
1	74



SITE IMPROVEMENTS PLAN

SCALE: 1" = 40'



WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

		SCHEMATIC DESIGN NOT FOR CONSTRUCTION MAY 17, 2021		0 — 1" BAR MEASURES ONE INCH ON 22x34 DRAWINGS	
SYM	DATE	REVISION DESCRIPTION	BY	DESIGNED BY D. WHITBECK	
APPROVED AND RELEASED FOR CONSTRUCTION				CHECKED BY	
CHIEF ENGINEER			DATE:	DRAWN BY STANTEC	
PROGRAM			DATE:	DATE 05/17/2021	

SOOS CREEK HATCHERY
WATER SUPPLY TREATMENT
PROJECT IMPROVEMENT
SITE PLAN

DISCIPLINE SHEET #

G0.5

PROJECT NO.

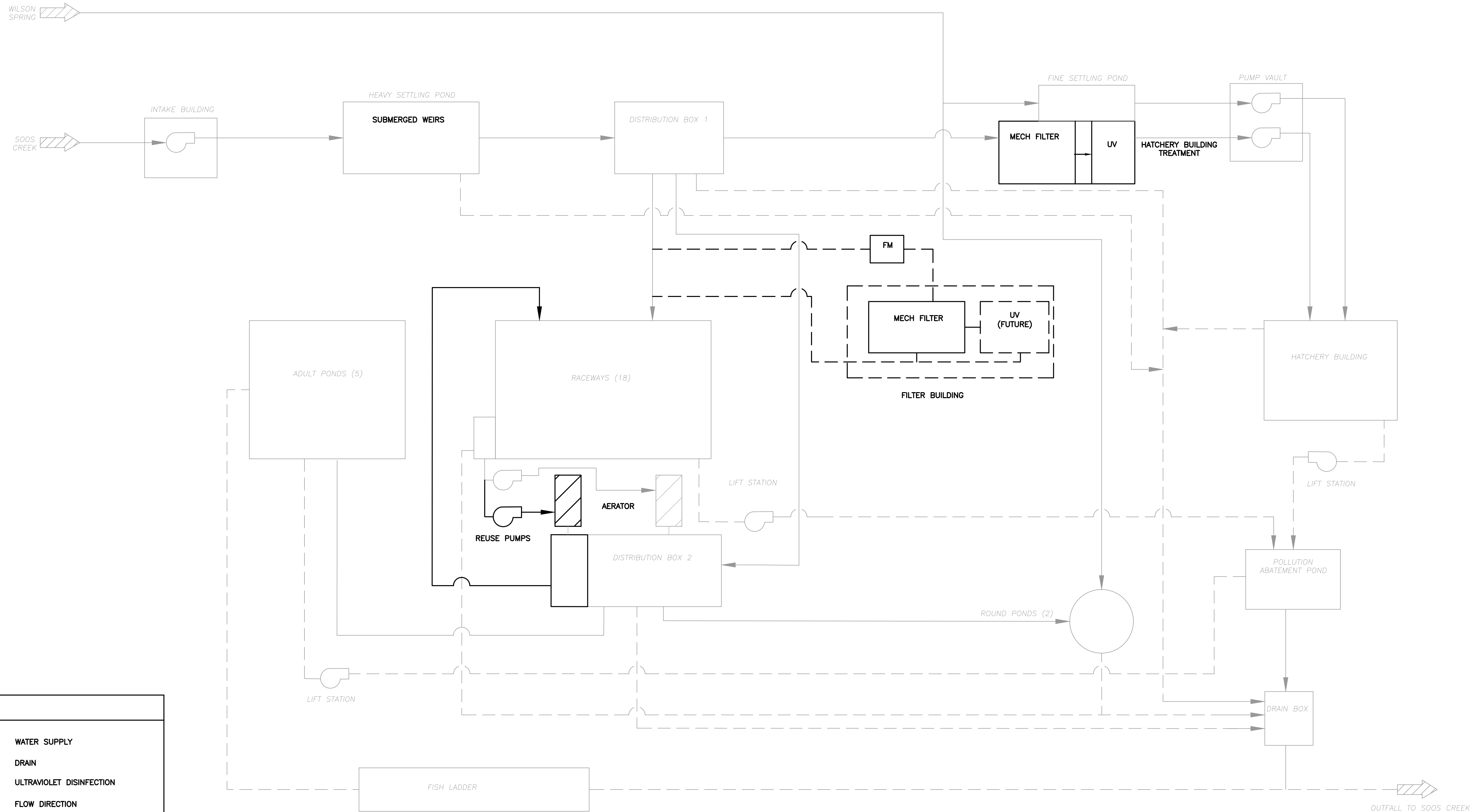
XX:###:####-#

SHEET

5

OF

74



LEGEND	
	WATER SUPPLY
	DRAIN
	ULTRAVIOLET DISINFECTION
	FLOW DIRECTION
	VALVE, NORMALLY OPEN
	VALVE, NORMALLY CLOSED
	PUMP
	AERATOR
	FLOW METER

NOTE:
1. EXISTING PROCESS ELEMENTS ARE SHOWN SCREENED BACK.



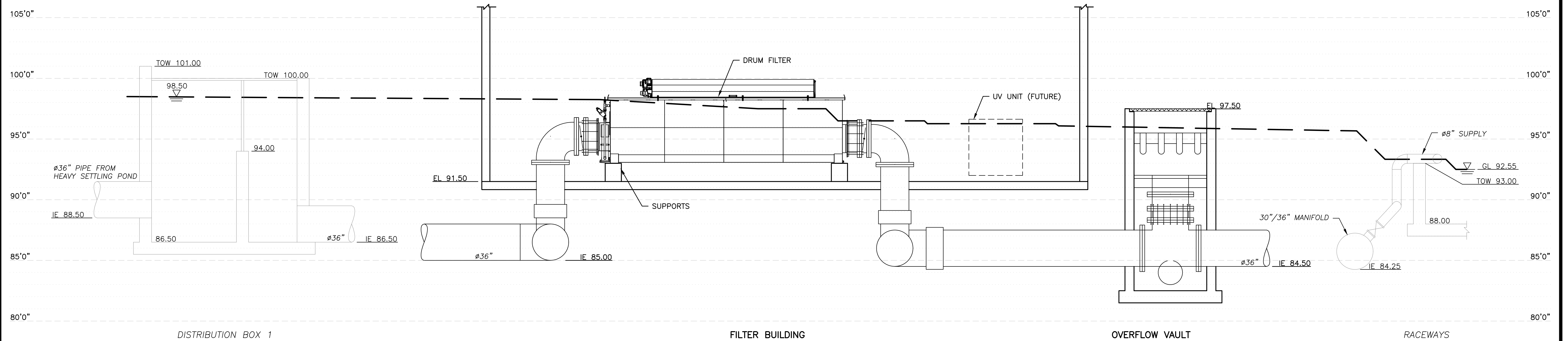
WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

SCHEMATIC DESIGN NOT FOR CONSTRUCTION MAY 17, 2021			
SYM	DATE	REVISION DESCRIPTION	BY
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CHIEF ENGINEER	DATE:	
PROGRAM	DATE:	

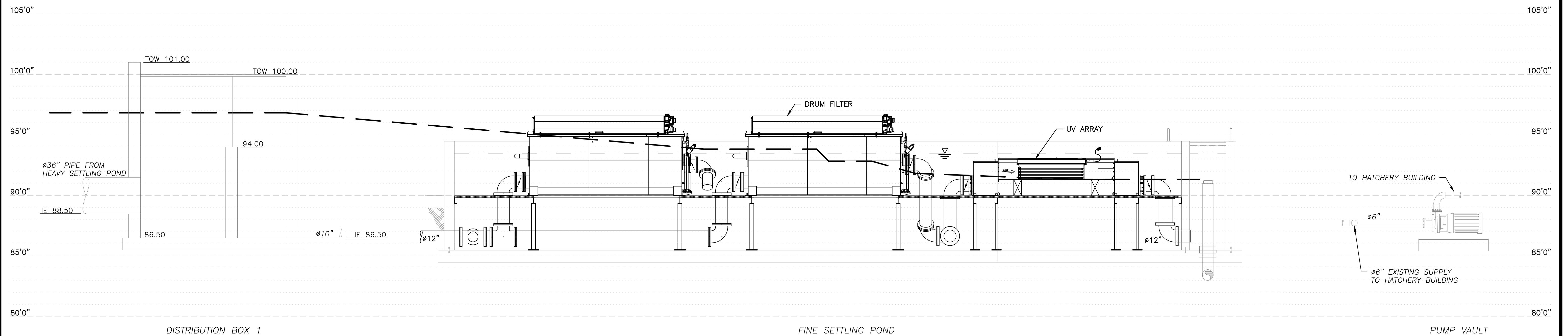
0	1"
BAR MEASURES ONE INCH ON 22x34 DRAWINGS	
DESIGNED BY	D. WHITBECK
CHECKED BY	
DRAWN BY	STANTEC
DATE	05/17/2021

SOOS CREEK HATCHERY
WATER SUPPLY TREATMENT
PROCESS FLOW DIAGRAM

DISCIPLINE SHEET #	
G0.9	
PROJECT NO. XX:X##:####-#	
SHEET	OF
9	74



RACEWAY SUPPLY TREATMENT HYDRAULIC PROFILE
 SCALE: 1/4" = 1'-0"



HATCHERY BUILDING TREATMENT HYDRAULIC PROFILE
 SCALE: 1/4" = 1'-0"

DISCIPLINE SHEET #

G0.10

PROJECT NO.

XX:X###:####-#

SHEET OF

10 74



WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

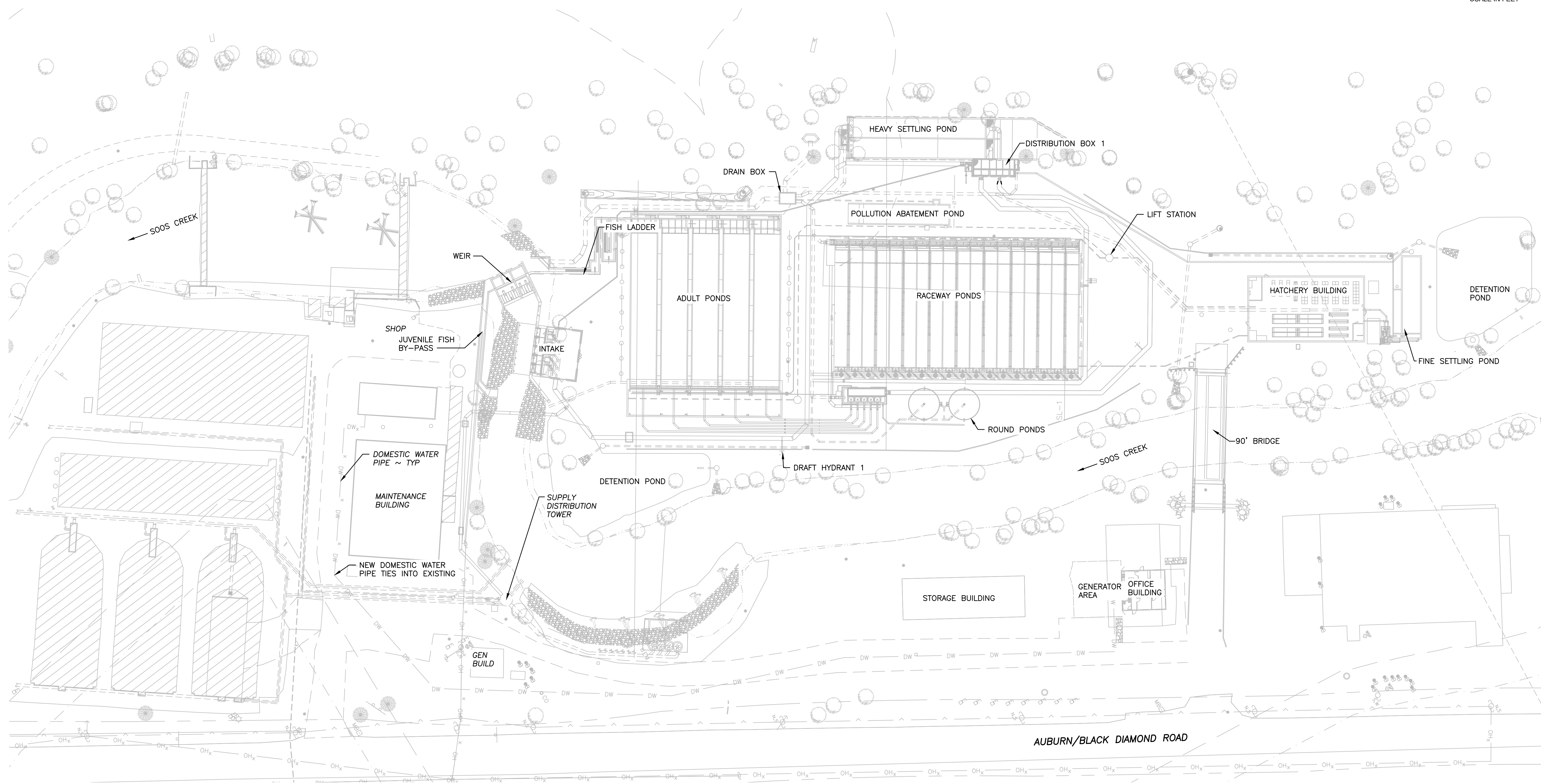
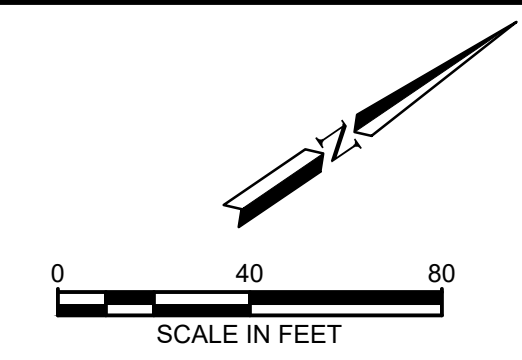
SCHEMATIC DESIGN
 NOT FOR CONSTRUCTION
 MAY 17, 2021

0 1"
 BAR MEASURES
 ONE INCH ON
 22x34 DRAWINGS

SOOS CREEK HATCHERY
 WATER SUPPLY TREATMENT
 HYDRAULIC PROFILES

SYM	DATE	REVISION DESCRIPTION	BY
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CHIEF ENGINEER	DATE:		
PROGRAM	DATE:		

DESIGNED BY D. WHITBECK
 CHECKED BY
 DRAWN BY STANTEC
 DATE 05/17/2021



SITE PLAN
SCALE: 1" = 40'

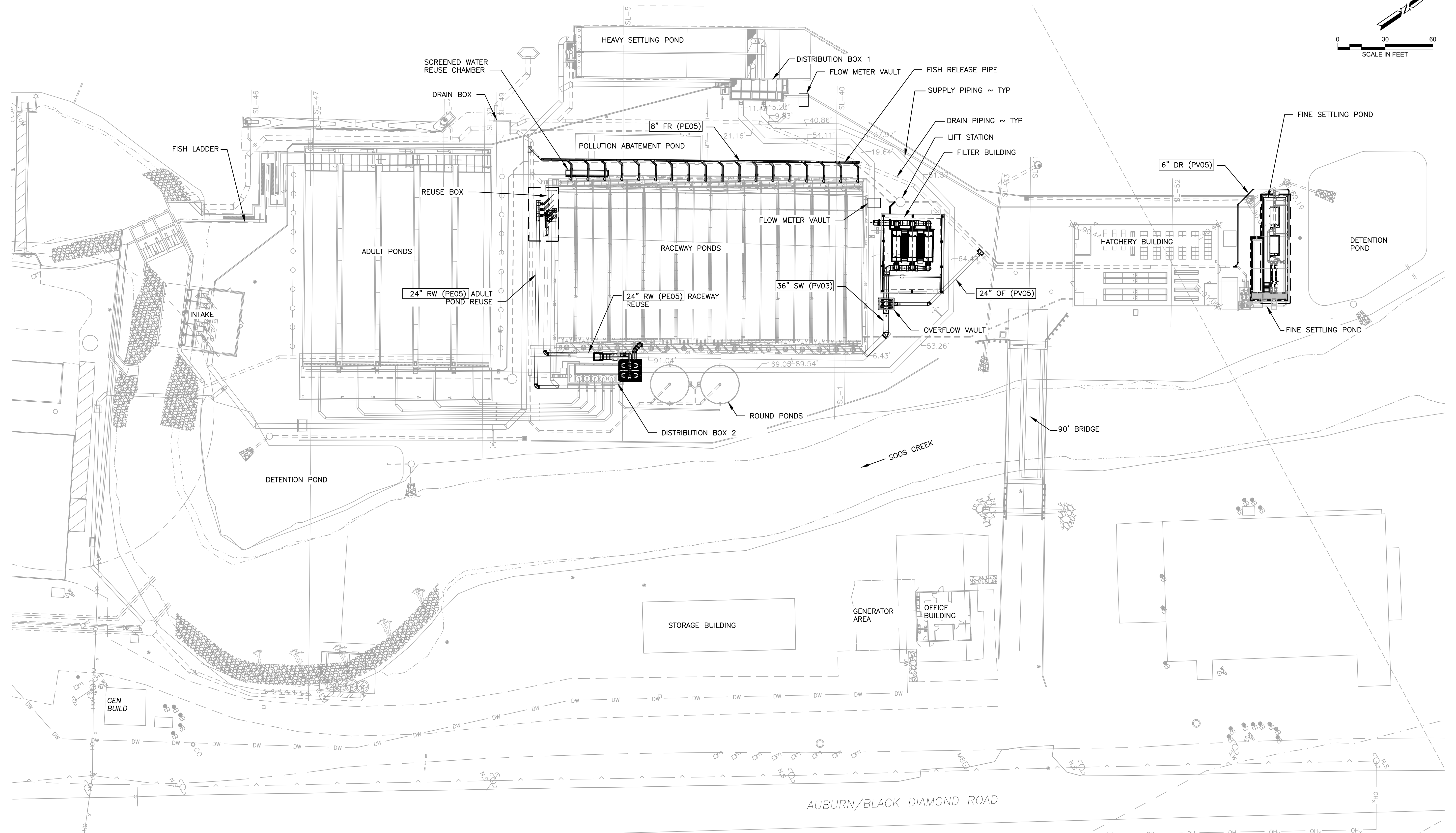
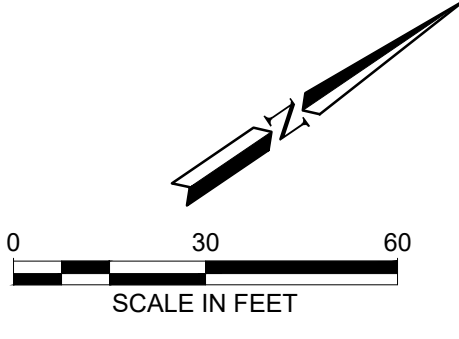
DISCIPLINE SHEET #	
C1.1	
PROJECT NO.	
XX:X##:####-#	
SHEET	OF
16	74



WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER		DATE:	DESIGNED BY F. LAST
PROGRAM		DATE:	CHECKED BY F. LAST
			DRAWN BY V. IYER
			DATE MM/DD/YYYY

SOOS CREEK HATCHERY
WATER SUPPLY TREATMENT
PROJECT IMPROVEMENT
SITE PLAN



SITE PIPING PLAN
SCALE: 1" = 30'

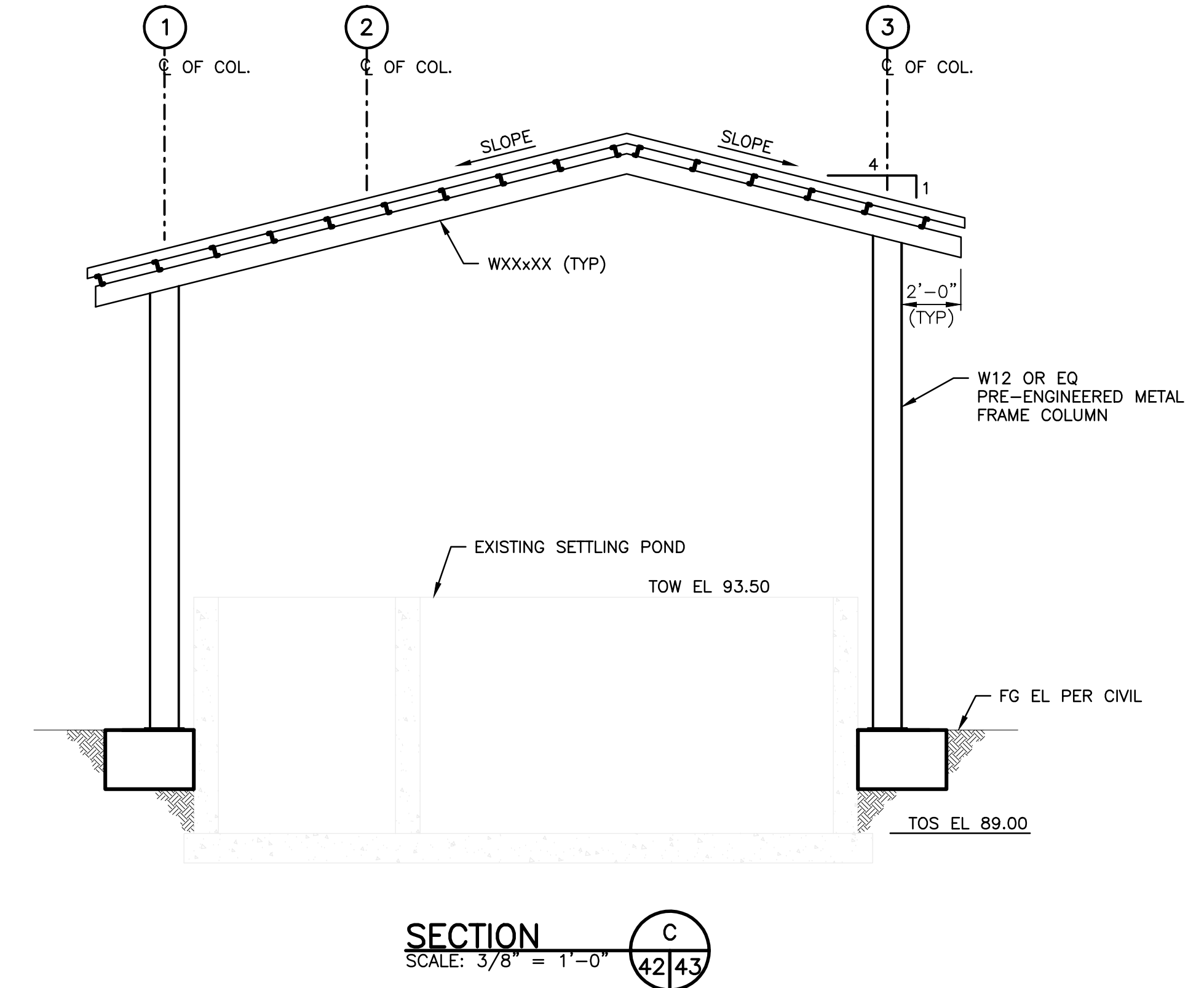
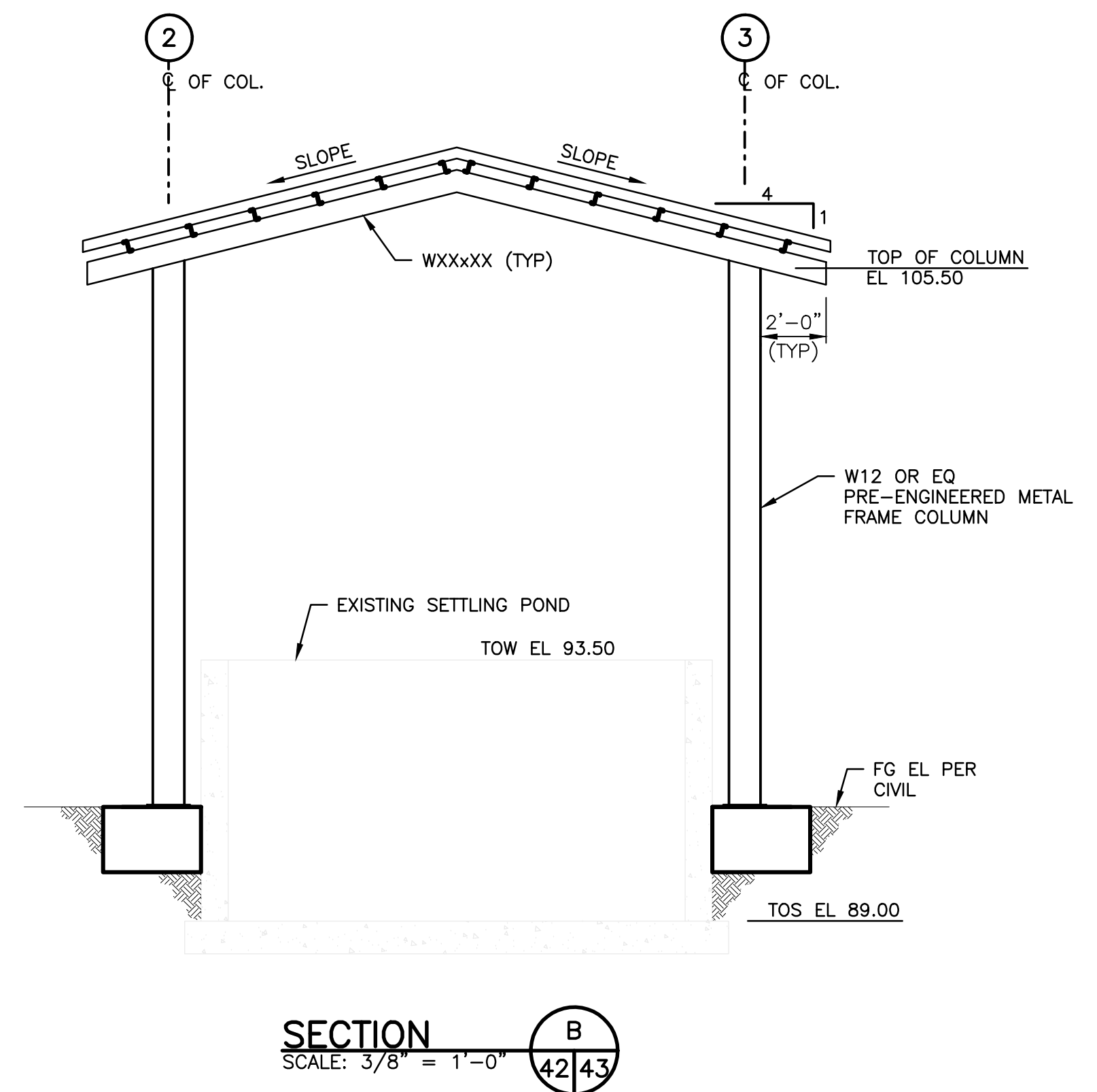
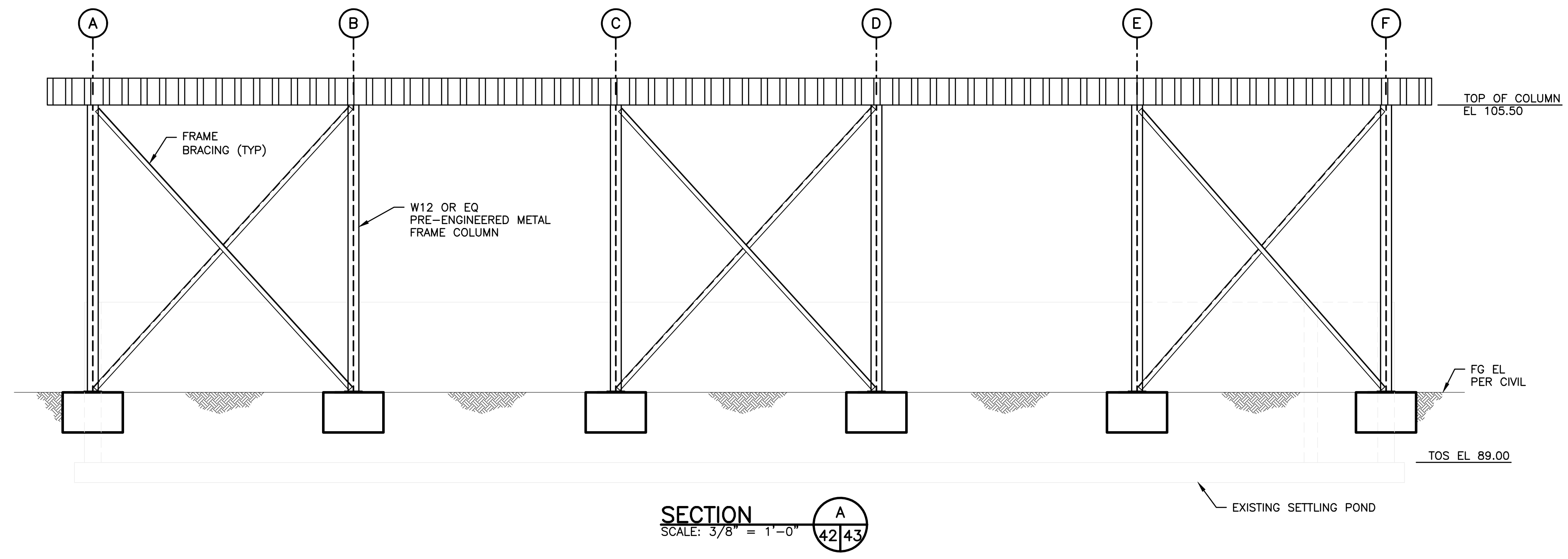
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C2.1	
PROJECT NO.	
XX:XXX:####-#	
SHEET	OF
18	74



WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

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CHIEF ENGINEER		DATE:	DESIGNED BY F. LAST
PROGRAM		DATE:	CHECKED BY F. LAST
			DRAWN BY V. IYER
			DATE MM/DD/YYYY

SOOS CREEK HATCHERY
WATER SUPPLY TREATMENT
PROJECT IMPROVEMENT
SITE PIPING PLAN



WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

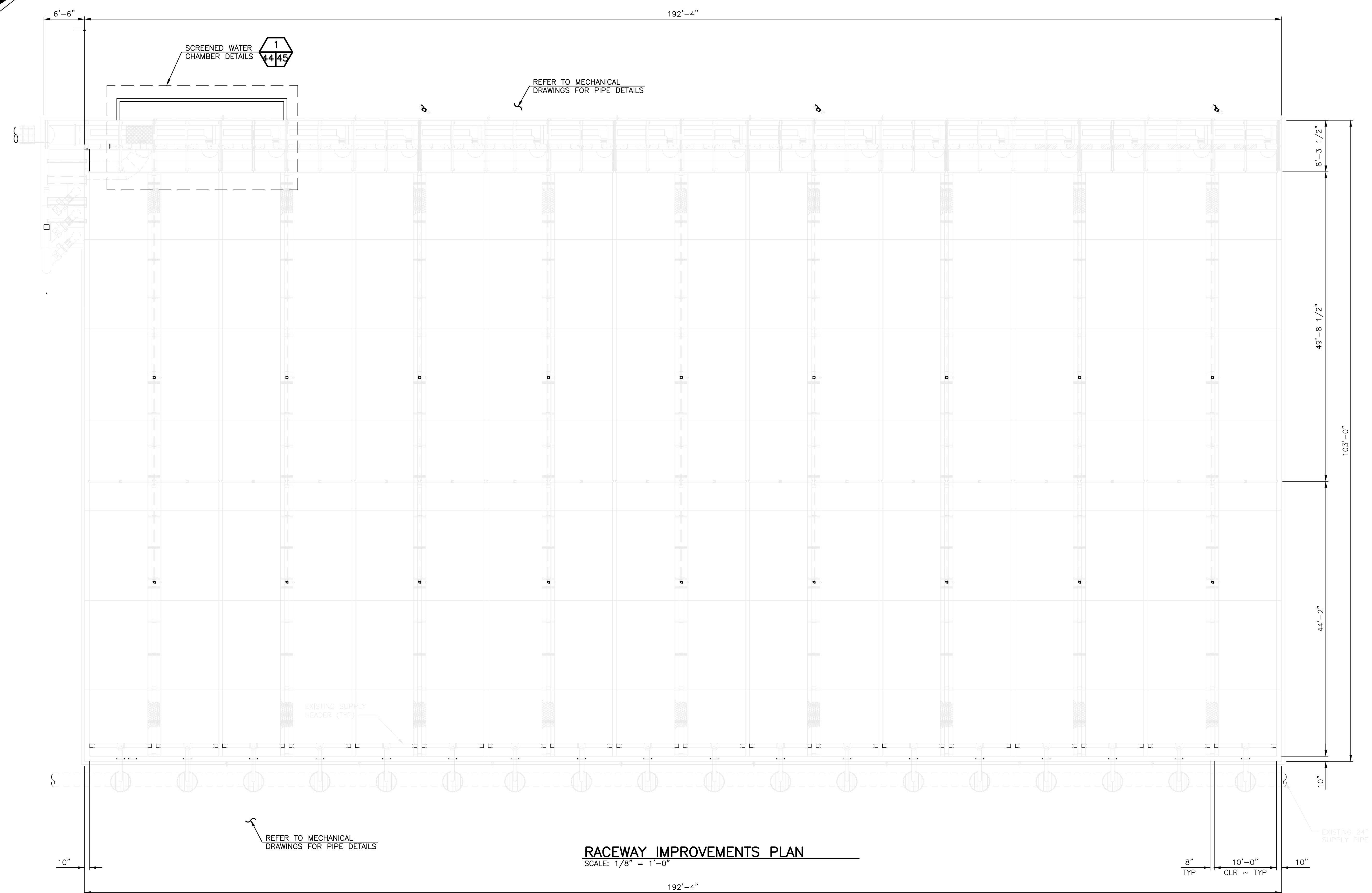
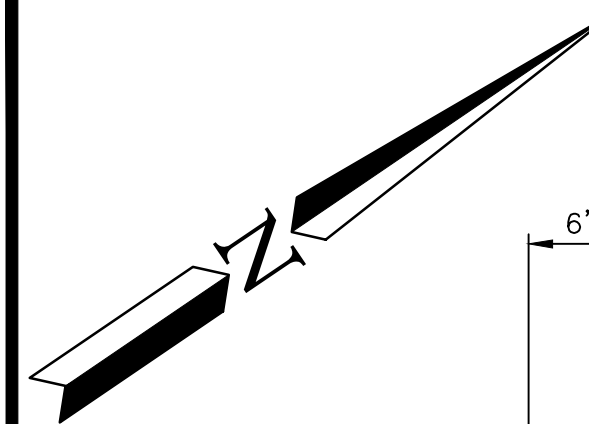
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SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER		DATE:	PROGRAM
PROGRAM		DATE:	

0 ——— 1"
BAR MEASURES
ONE INCH ON
22x34 DRAWINGS

DESIGNED BY F. LAST
CHECKED BY F. LAST
DRAWN BY S. NADKAR
DATE MM/DD/YYYY

SOOS CREEK HATCHERY
WATER SUPPLY TREATMENT
FINE SETTLING PONG
STRUCTURAL SECTIONS AND DETAILS

DISCIPLINE SHEET #	
S12.2	
PROJECT NO. XX:X##:####-#	
SHEET	OF
43	74



RACEWAY IMPROVEMENTS PLAN
 SCALE: 1/8" = 1'-0"

DISCIPLINE SHEET #
S15.1

PROJECT NO.
 XX:X##:####-#

SHEET OF
44 74



**WASHINGTON DEPARTMENT OF
 FISH & WILDLIFE**

SCHEMATIC DESIGN NOT FOR CONSTRUCTION MAY 17, 2021			
SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER		DATE:	PROGRAM
PROGRAM		DATE:	DATE: 05/17/2021

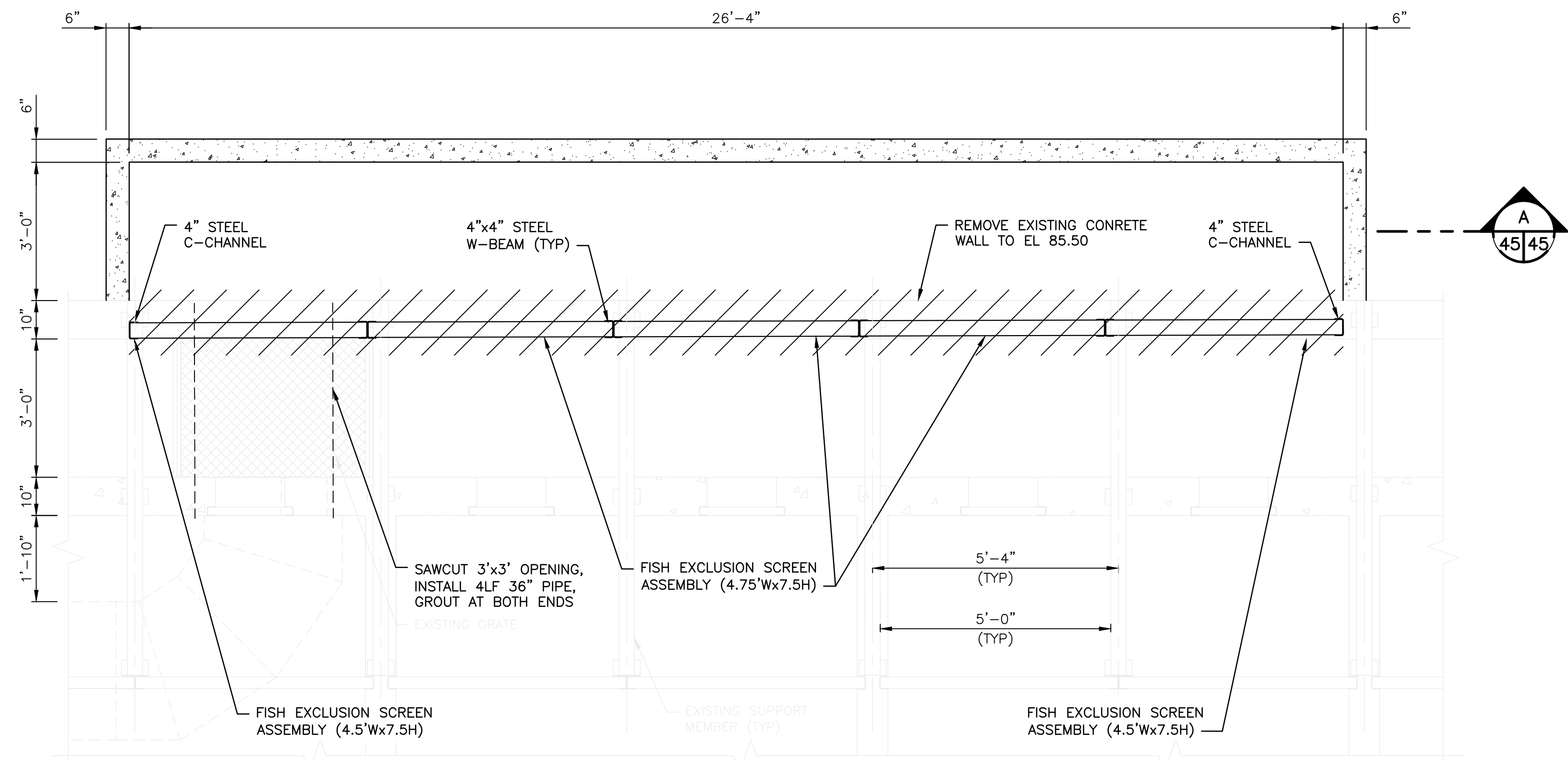
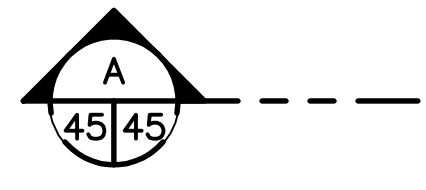
0 — 1"
 BAR MEASURES
 ONE INCH ON
 22x34 DRAWINGS

DESIGNED BY D. WHITBECK
 CHECKED BY

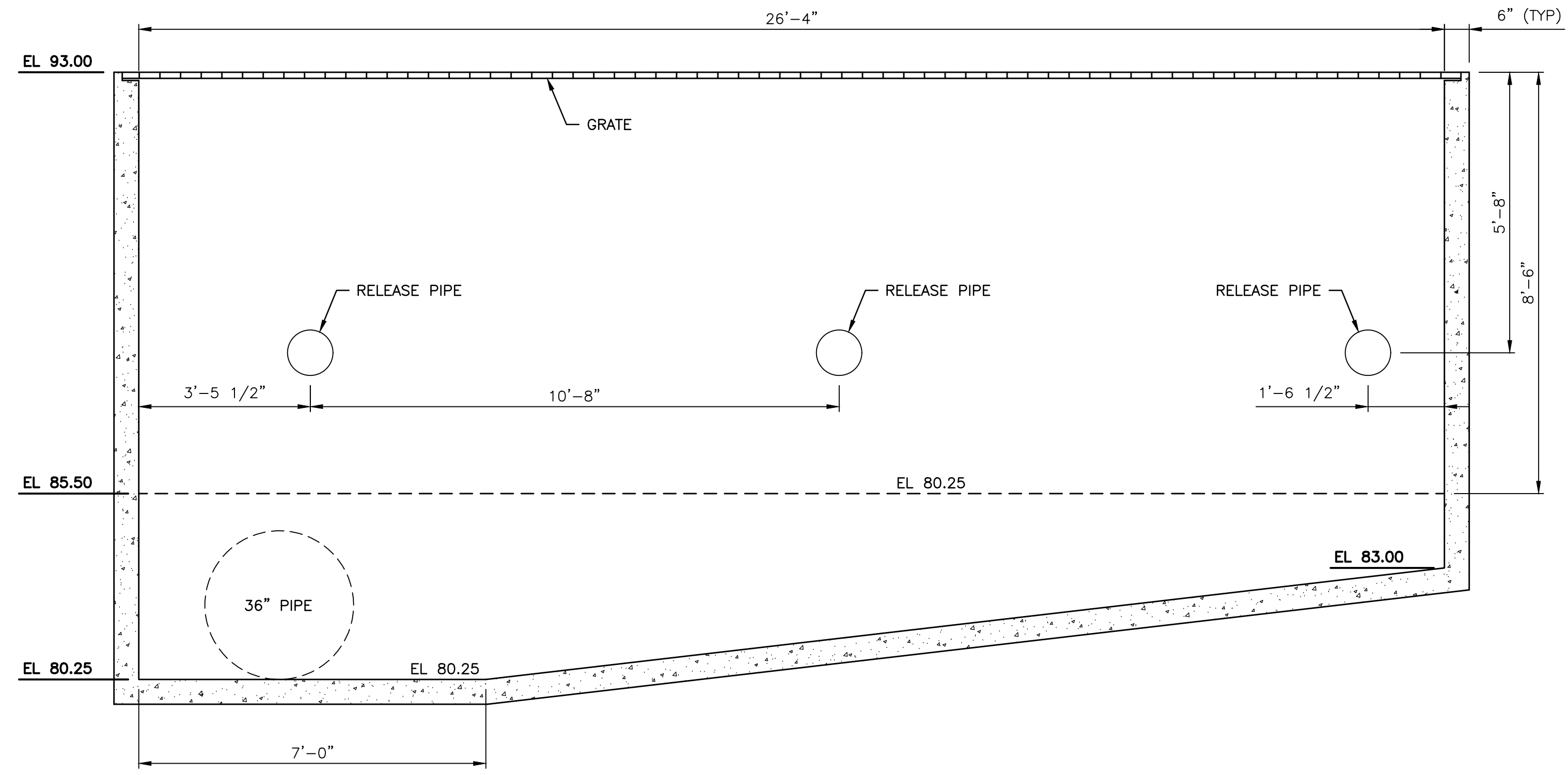
DRAWN BY STANTEC
 DATE 05/17/2021

SOOS CREEK HATCHERY

**WATER SUPPLY TREATMENT
 RACEWAY IMPROVEMENTS PLAN**



SCREENED WATER CHAMBER DETAIL - PLAN VIEW
SCALE: 1/2" = 1'-0"



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

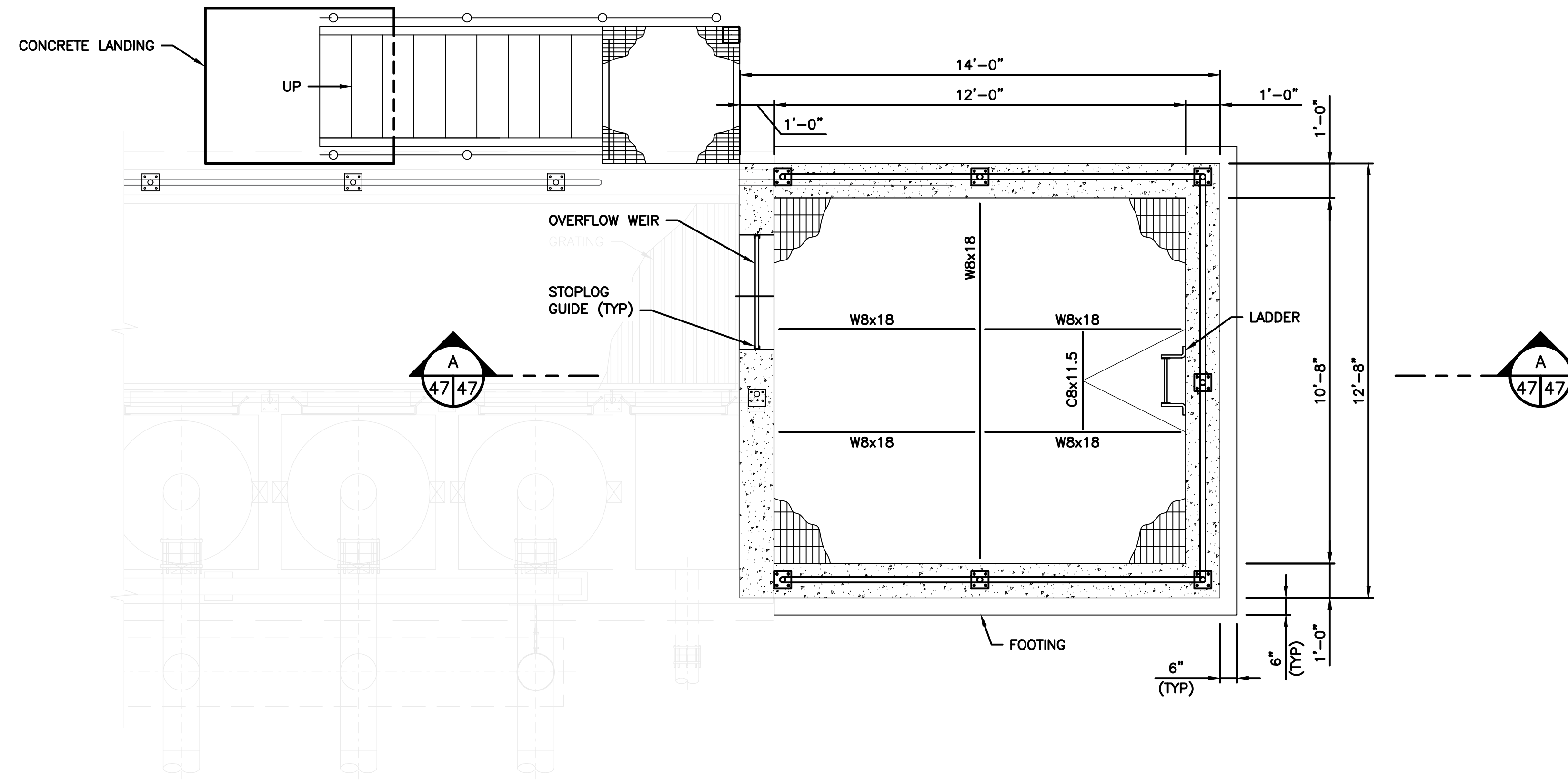
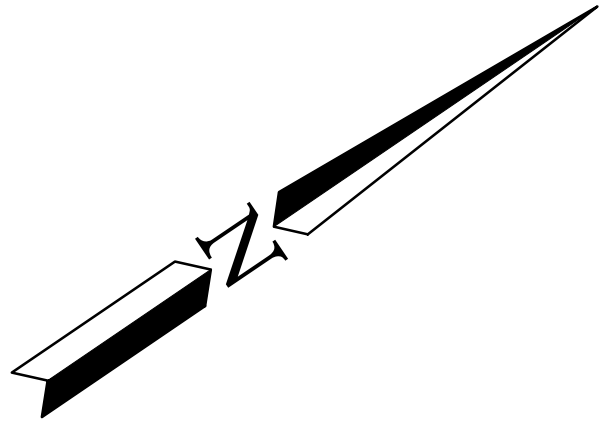


WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

SCHEMATIC DESIGN NOT FOR CONSTRUCTION MAY 17, 2021			0 — 1" BAR MEASURES ONE INCH ON 22x34 DRAWINGS
SYM	DATE	REVISION DESCRIPTION	BY
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CHIEF ENGINEER			CHECKED BY
PROGRAM			DRAWN BY STANTEC
DATE:			DATE 05/17/2021

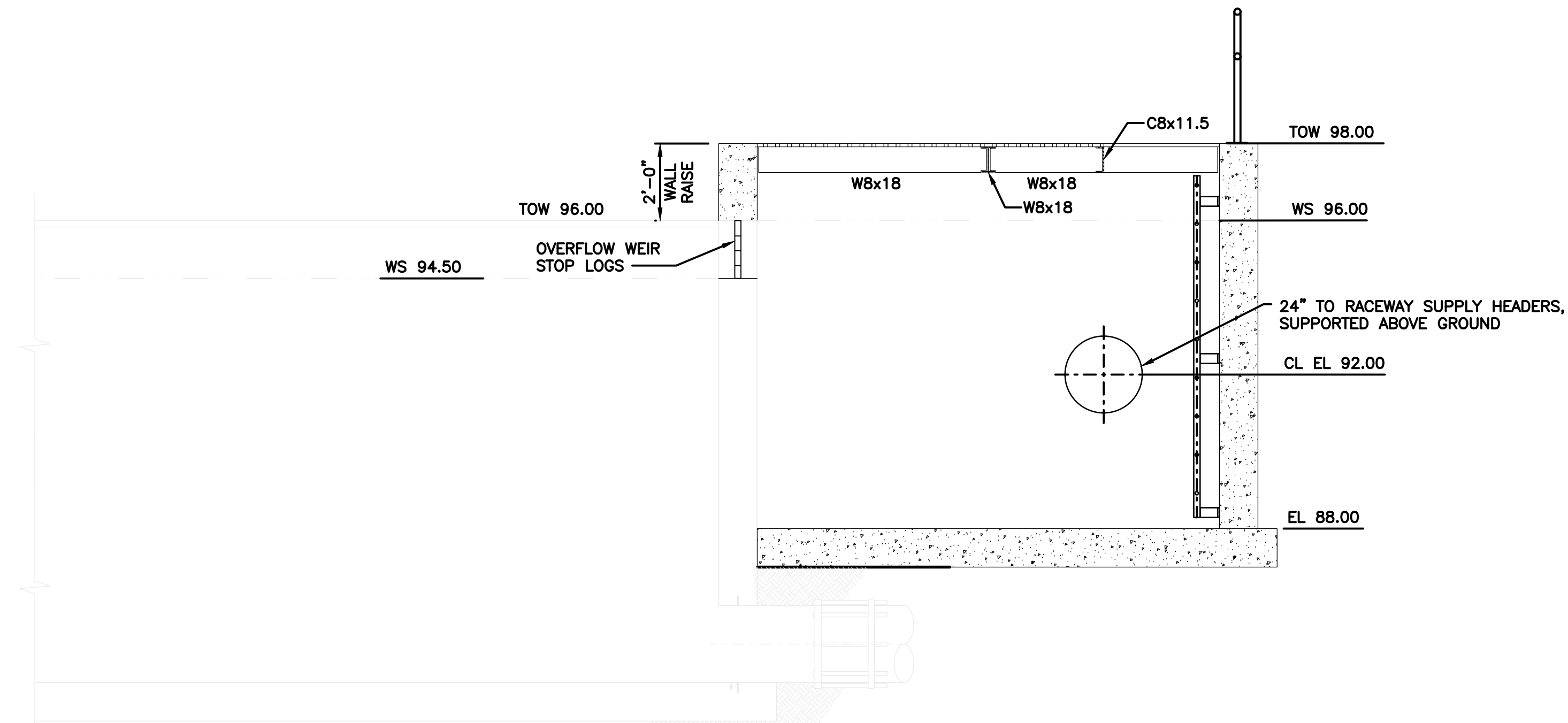
SOOS CREEK HATCHERY
WATER SUPPLY TREATMENT
REUSE SCREEN CHAMBER
PLAN AND SECTION

DISCIPLINE SHEET # S15.2	
PROJECT NO. XX:###:####-#	
SHEET 45	OF 74



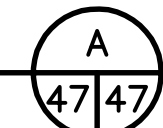
DISTRIBUTION BOX 2 PLAN

SCALE: 3/8" = 1'-0"



SECTION

SCALE: 3/8" = 1'-0"



WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

SYMBOL		DATE		REVISION DESCRIPTION		BY	
APPROVED AND RELEASED FOR CONSTRUCTION							
CHIEF ENGINEER				DATE:		DESIGNED BY F. LAST	
PROGRAM				DATE:		CHECKED BY F. LAST	
						DRAWN BY S. NADKAR	
						DATE MM/DD/YYYY	

0 1"
BAR MEASURES
ONE INCH ON
22x34 DRAWINGS

SOOS CREEK HATCHERY
WATER SUPPLY TREATMENT
DISTRIBUTION BOX 2
EXPANSION PLAN

DISCIPLINE SHEET #

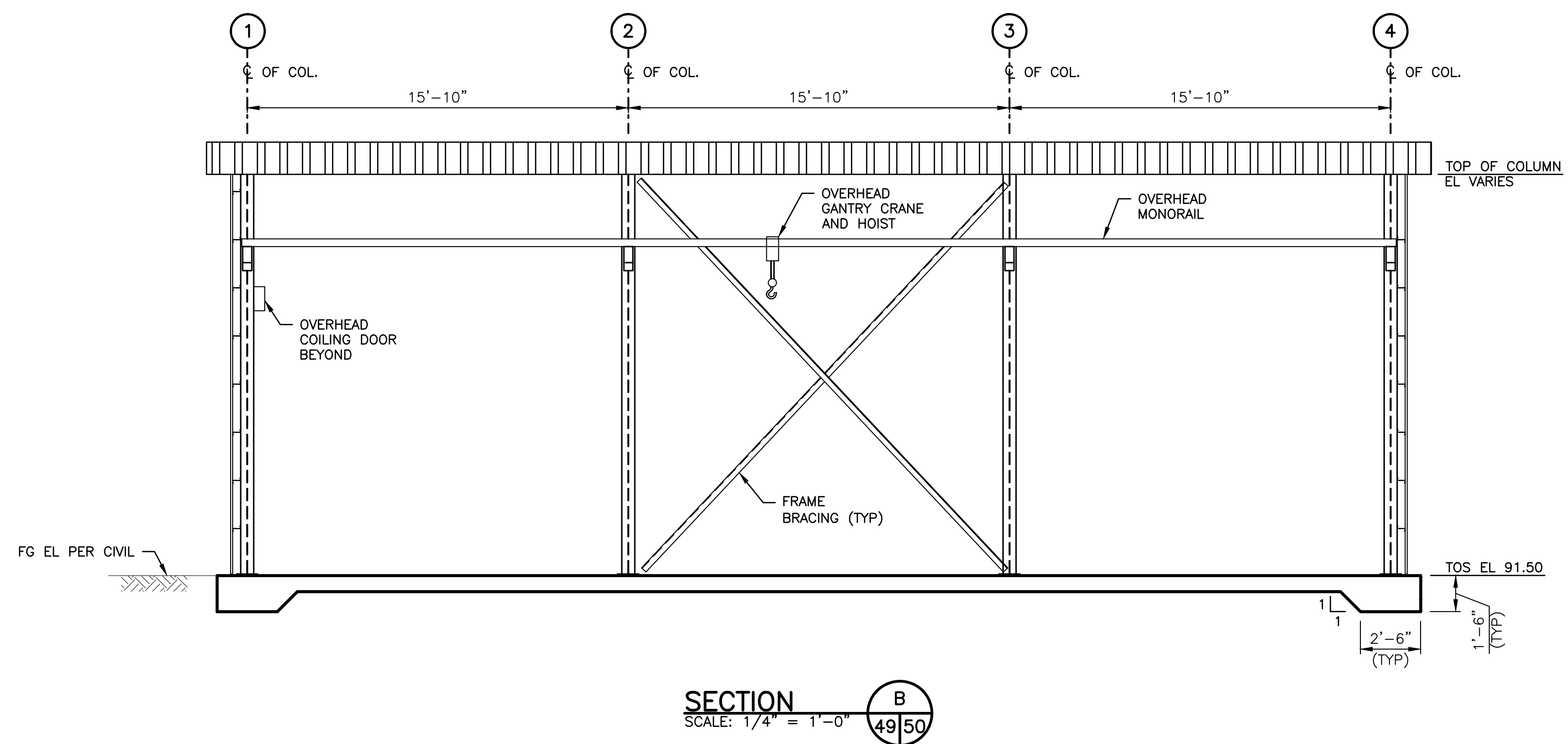
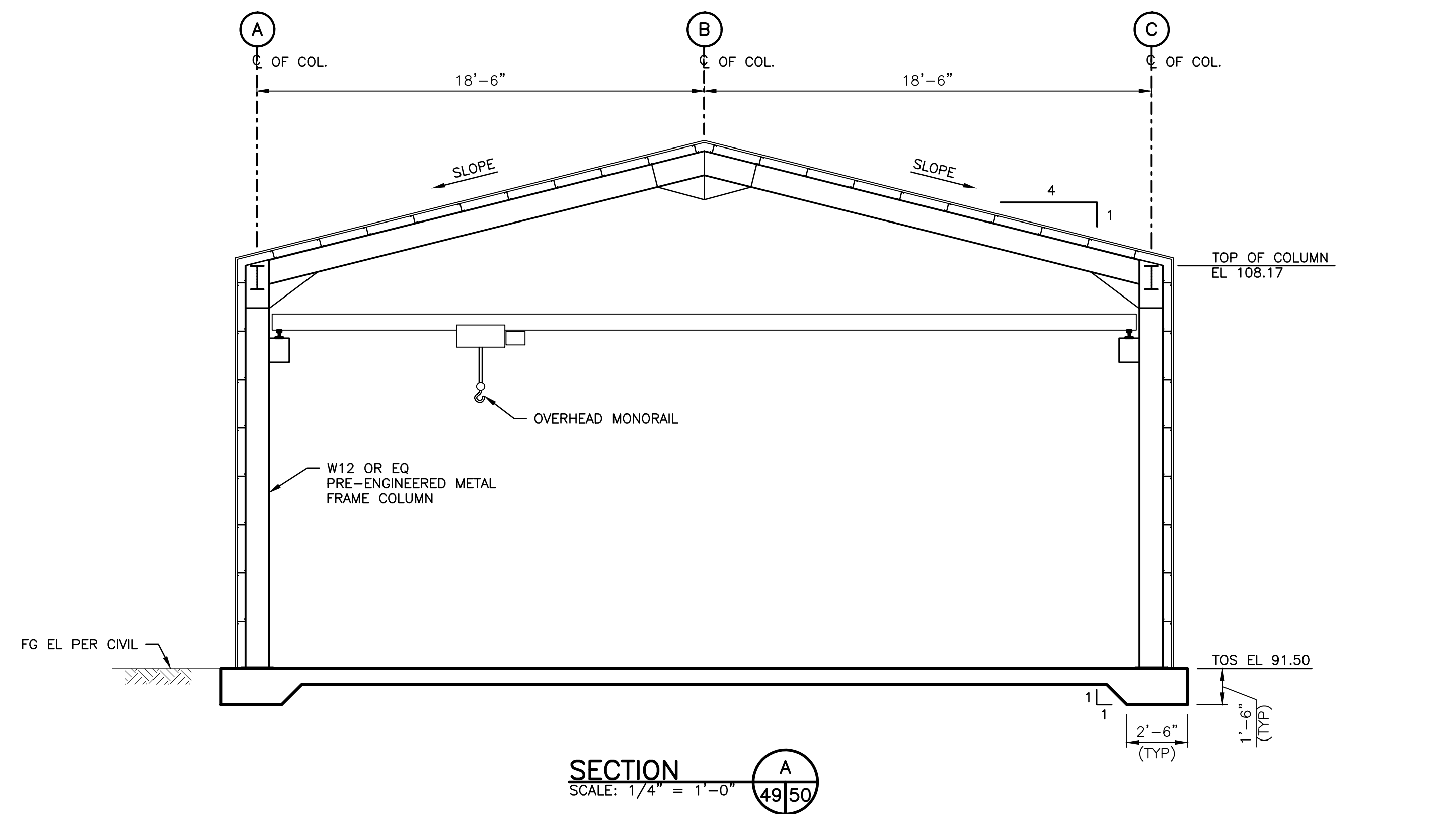
S16.1

PROJECT NO.

XX:X##:####-#

SHEET OF

47 73



DISCIPLINE SHEET #
S23.2

PROJECT NO.
XX:X##:####-#

SHEET OF
50 74

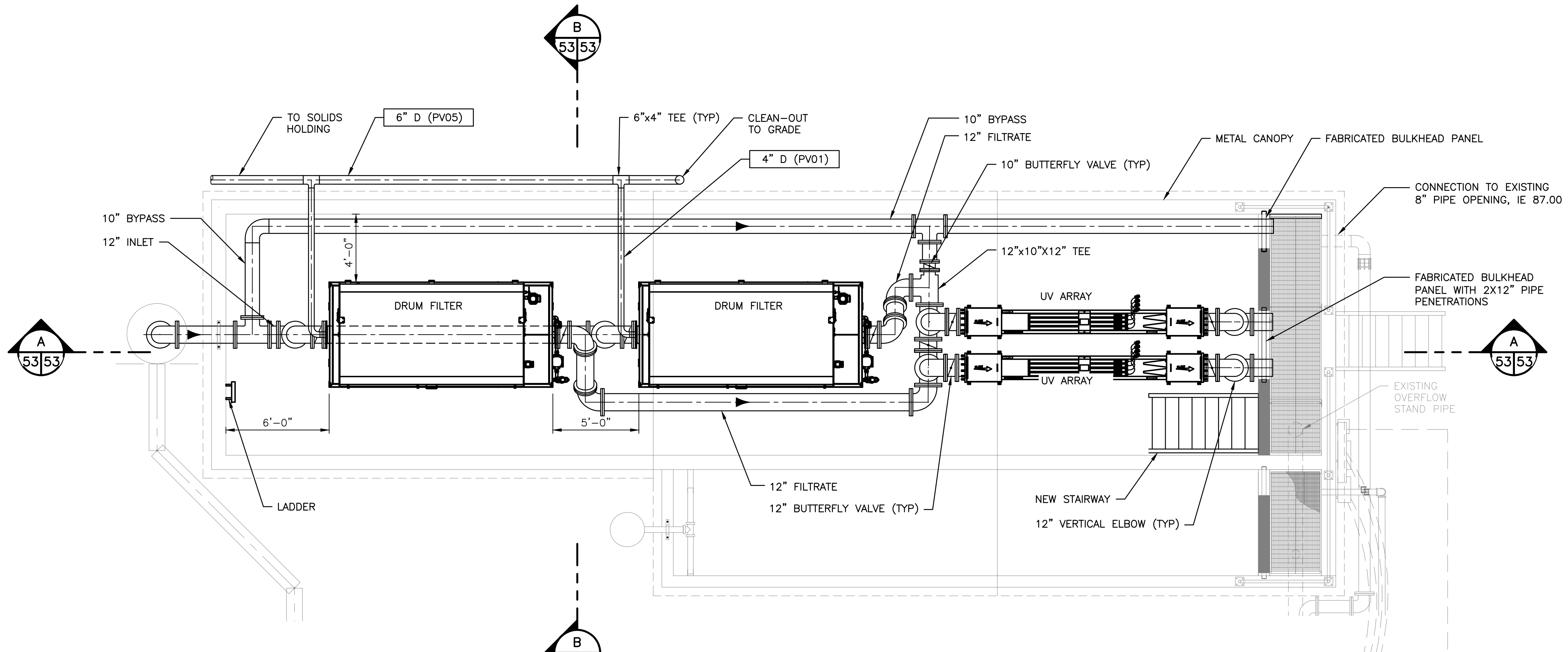
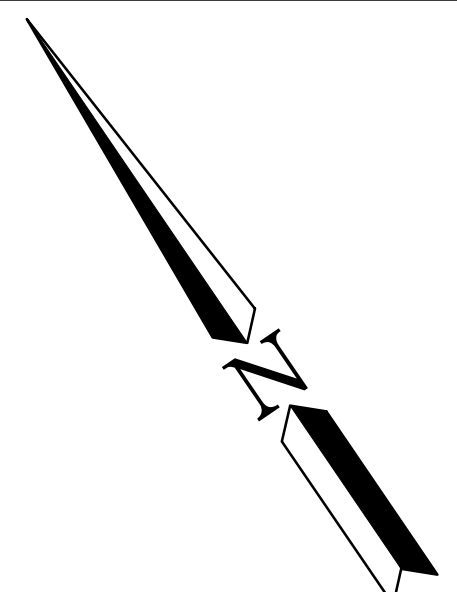


WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

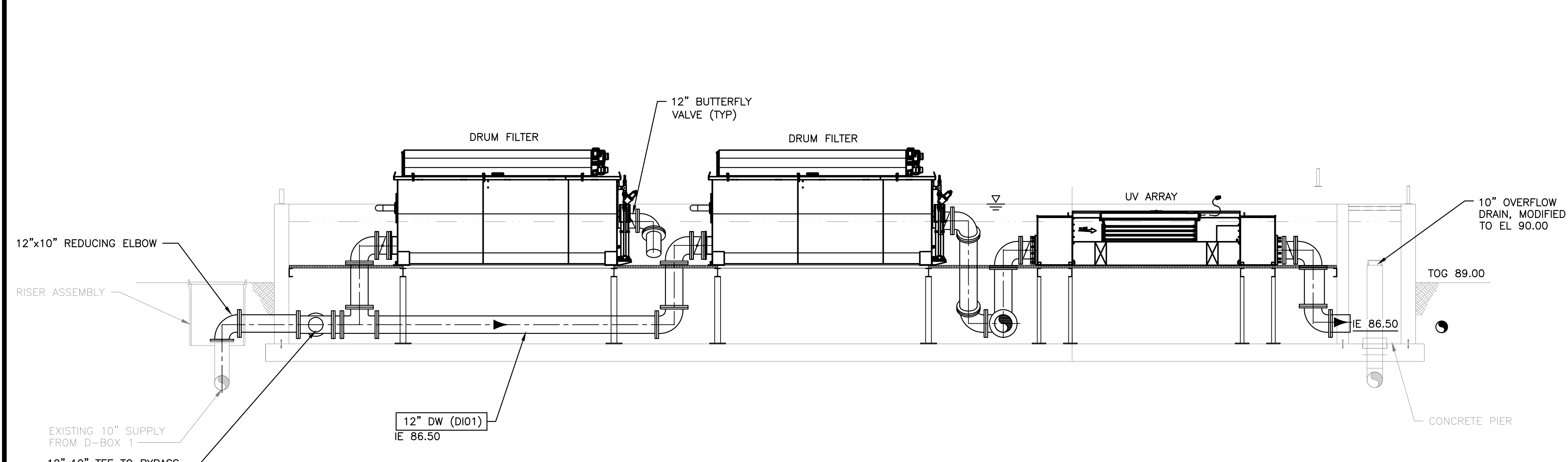
SCHEMATIC DESIGN NOT FOR CONSTRUCTION MAY 17, 2021		
SYM	DATE	REVISION DESCRIPTION
APPROVED AND RELEASED FOR CONSTRUCTION		
CHIEF ENGINEER	DATE:	
PROGRAM	DATE:	

DESIGNED BY D. WHITBECK
CHECKED BY
DRAWN BY STANTEC
DATE 05/17/2021

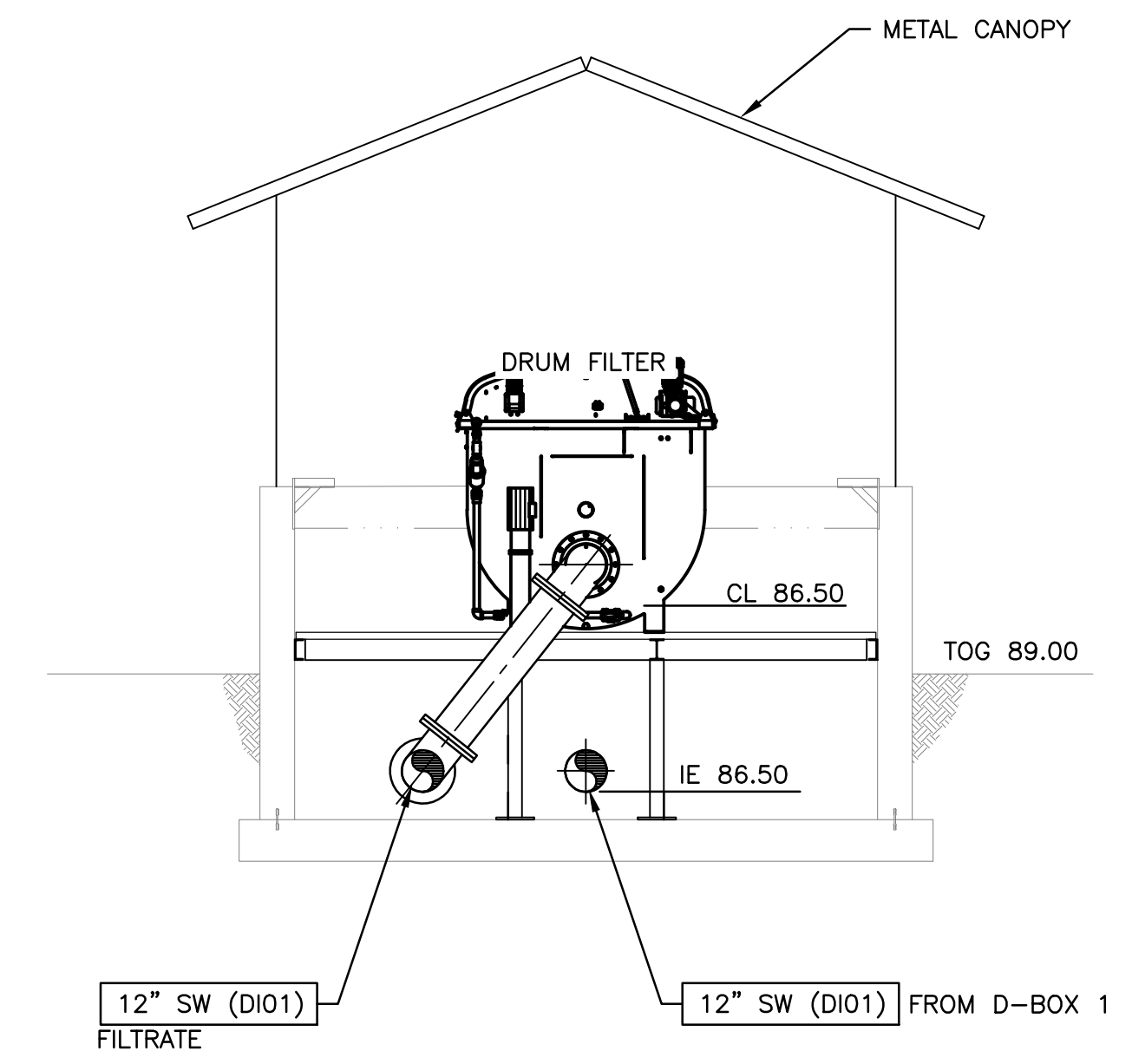
SOOS CREEK HATCHERY
WATER SUPPLY TREATMENT
FILTER BUILDING
SECTIONS AND DETAILS



FINE SETTLING POND PLAN
SCALE: 1/4" = 1'-0"



SECTION A
SCALE: 1/4" = 1'-0"



SECTION B
SCALE: 1/4" = 1'-0"



WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

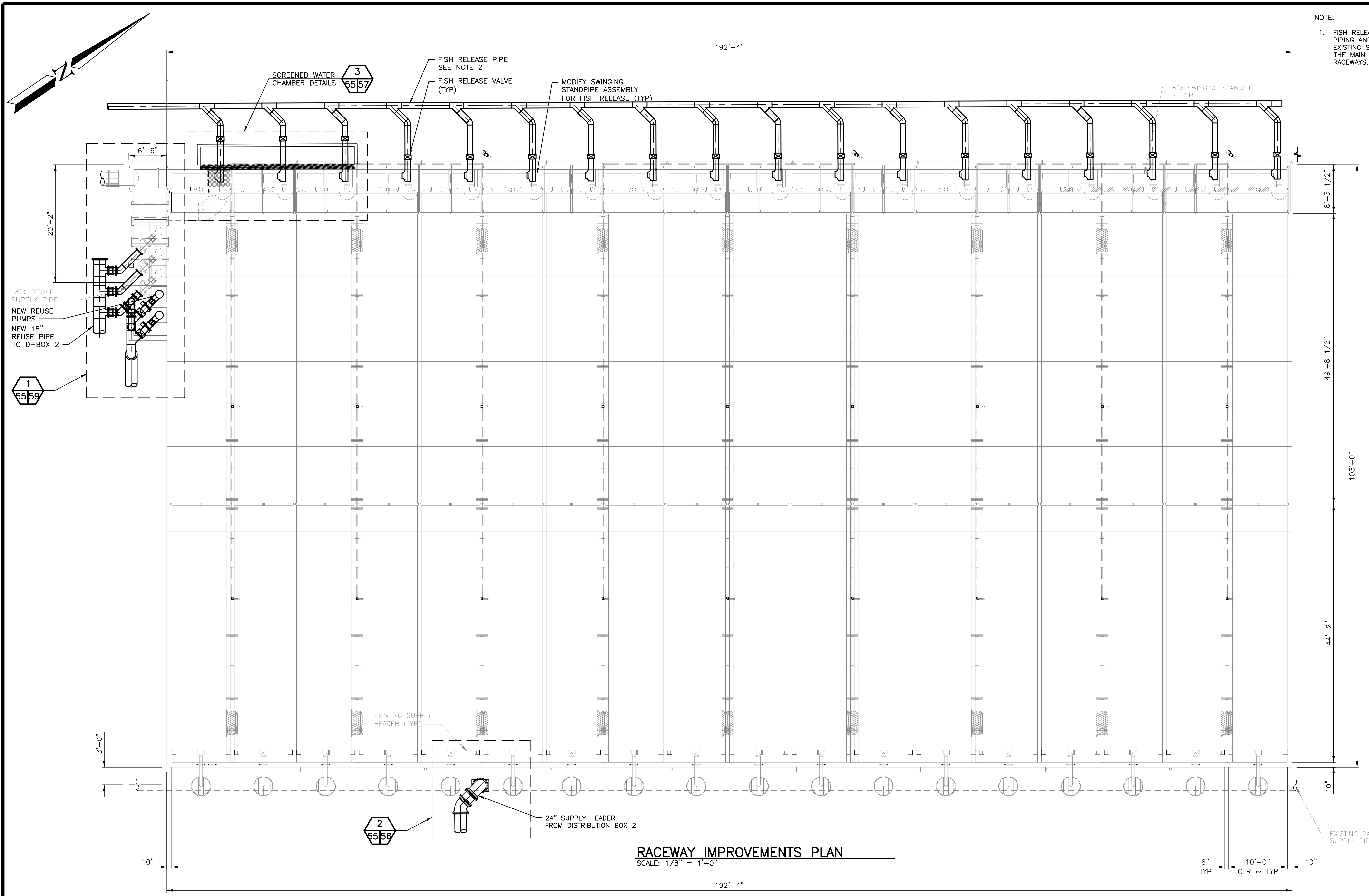
SCHEMATIC DESIGN NOT FOR CONSTRUCTION MAY 17, 2021			
SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER	DATE:		
PROGRAM	DATE:		

0 ——— 1" BAR MEASURES ONE INCH ON 22x34 DRAWINGS
DESIGNED BY D. WHITBECK
CHECKED BY
DRAWN BY STANTEC
DATE 05/17/2021

SOOS CREEK HATCHERY
WATER SUPPLY TREATMENT
FINE SETTLING POND
MECHANICAL PLAN AND SECTIONS

DISCIPLINE SHEET # M12.1	
PROJECT NO. XX:###:####-#	
SHEET 53	OF 74

NOTE:
 1. FISH RELEASE PIPE TO CONSIST OF HDPE PIPING AND VALVES CONNECTING BETWEEN THE EXISTING SWINGING STANDPIPE ASSEMBLIES AND THE MAIN DRAIN LOCATED WEST OF THE RACEWAYS. SEE SHEET 15.5 FOR DETAILS.



RACEWAY IMPROVEMENTS PLAN
 SCALE: 1/8" = 1'-0"



WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

SCHEMATIC DESIGN NOT FOR CONSTRUCTION MAY 17, 2021			
SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER		DATE:	PROGRAM
PROGRAM		DATE:	

0 — 1"
 BAR MEASURES
 ONE INCH ON
 22x34 DRAWINGS

DESIGNED BY D. WHITBECK
 CHECKED BY

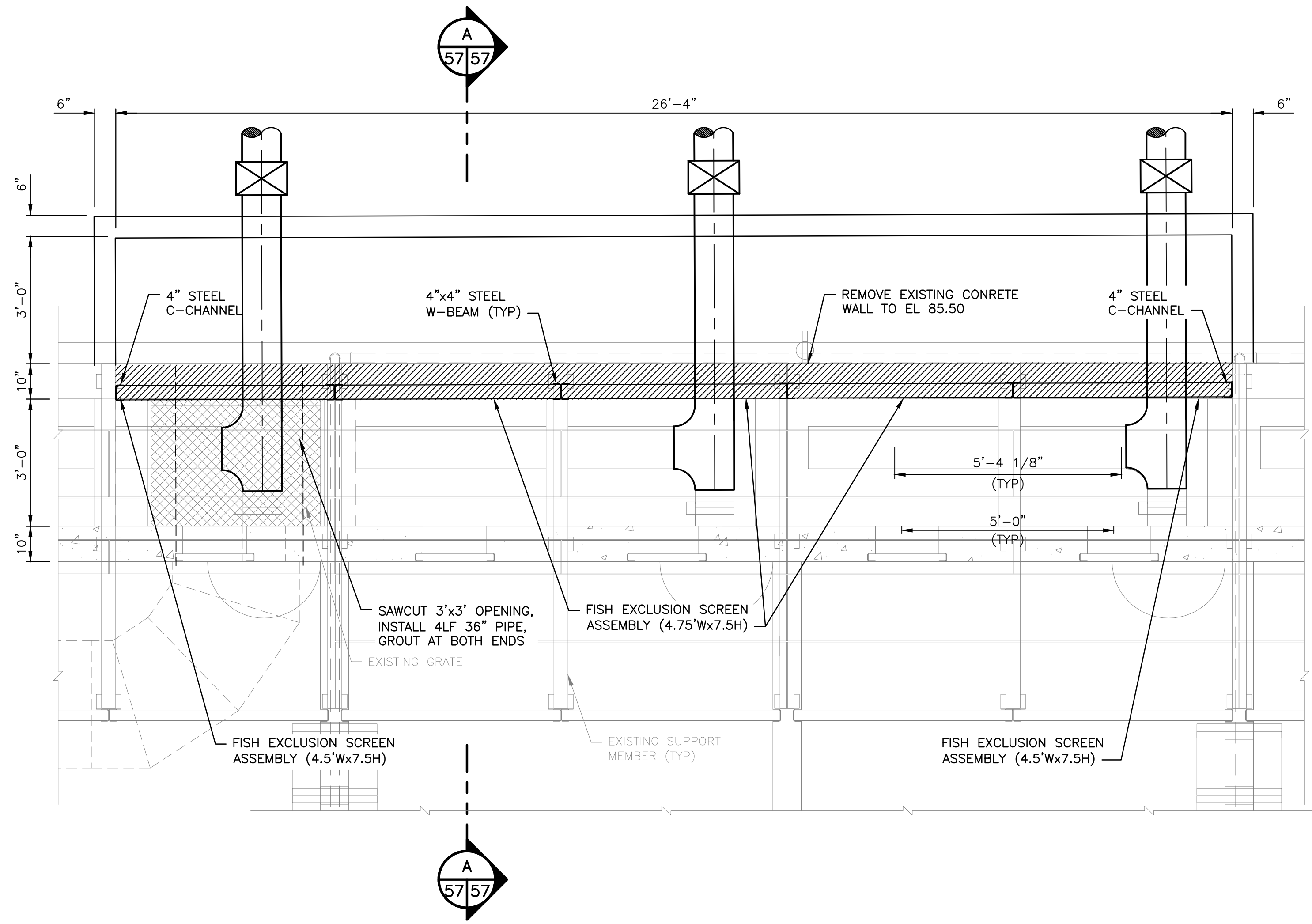
DRAWN BY STANTEC
 DATE 05/17/2021

SOOS CREEK HATCHERY

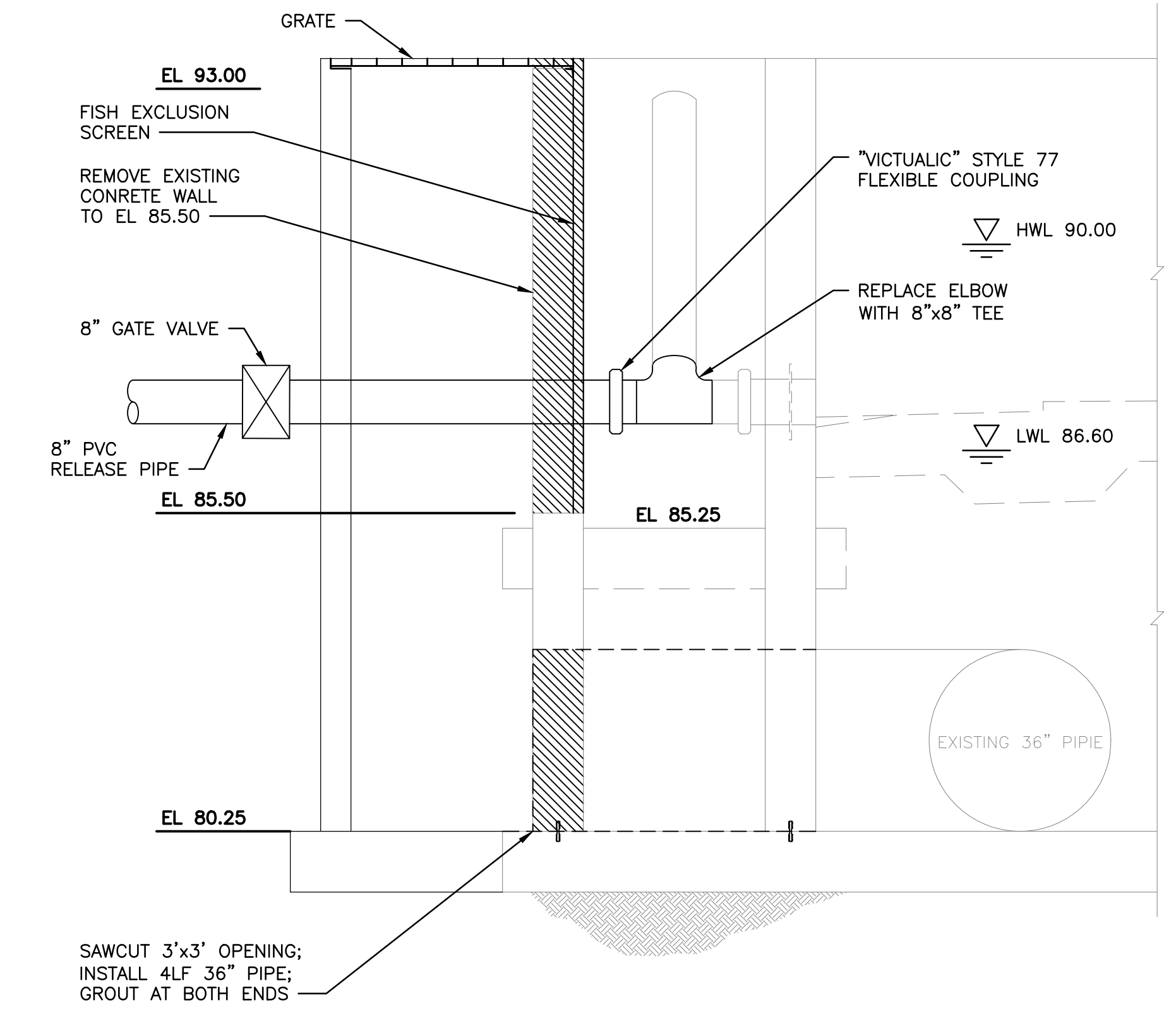
**WATER SUPPLY TREATMENT
 RACEWAY IMPROVEMENTS PLAN**

DISCIPLINE SHEET #	
M15.1	
PROJECT NO. XX:X##:####-#	
SHEET	OF
55	74

NOTE:
 1. FISH RELEASE PIPE TO CONSIST OF HDPE PIPING AND VALVES CONNECTING BETWEEN THE EXISTING SWINGING STANDPIPE ASSEMBLIES AND THE MAIN DRAIN LOCATED WEST OF THE RACEWAYS. SEE SHEET 15.5 FOR DETAILS.



SCREENED WATER CHAMBER PLAN
 SCALE: 1/2" = 1'-0"



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



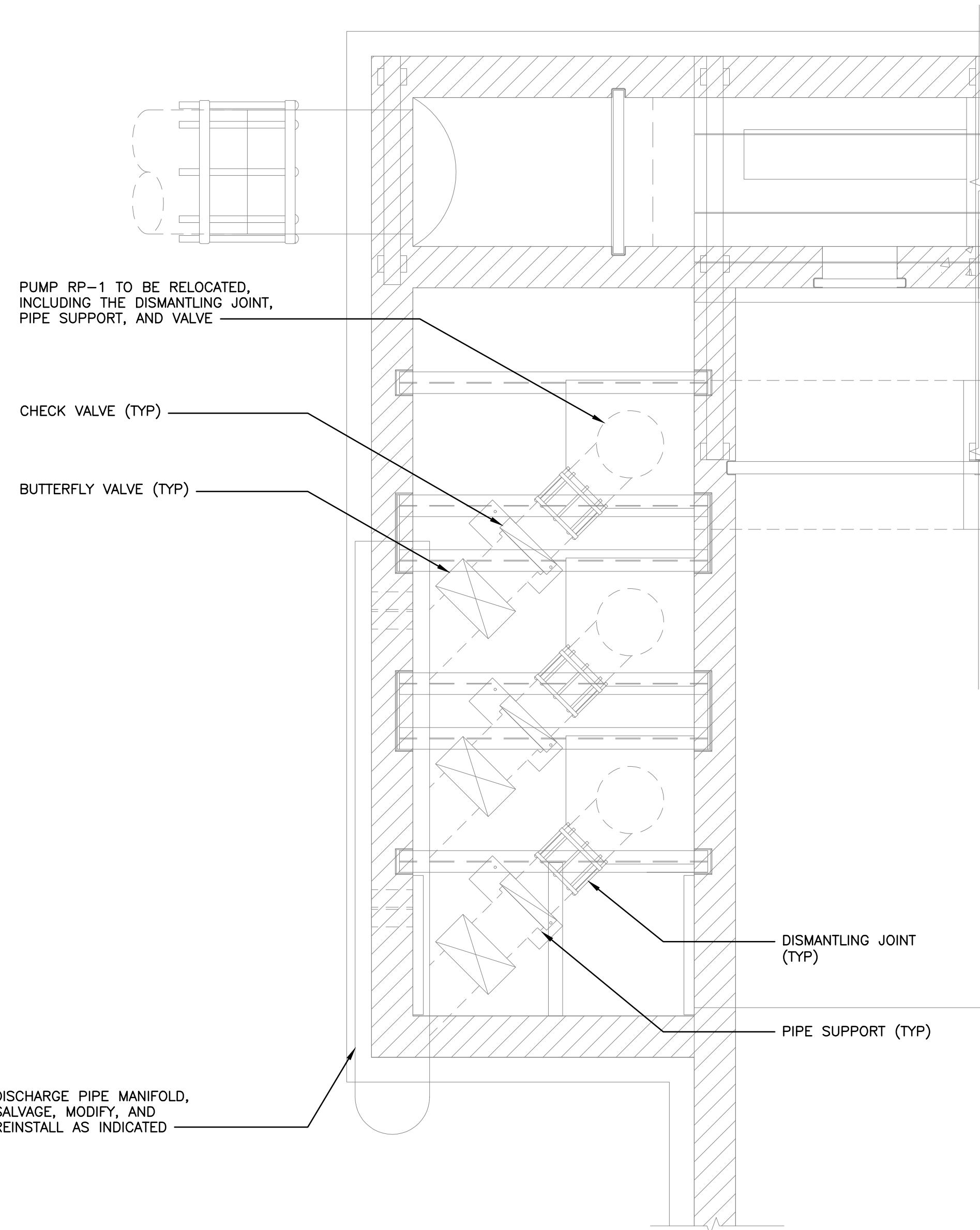
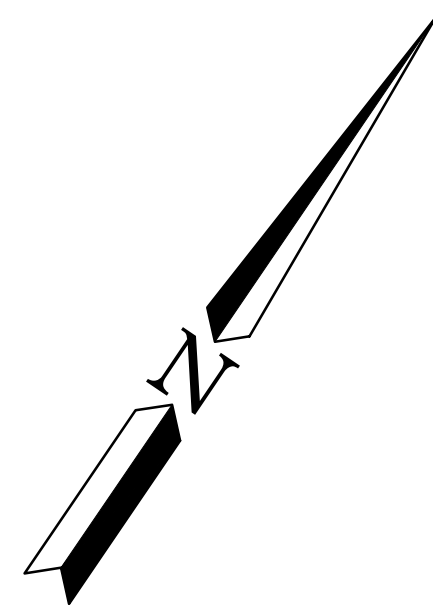
WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

SYMBOL		DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION				
CHIEF ENGINEER			DATE:	DESIGNED BY D. WHITBECK
PROGRAM			DATE:	CHECKED BY
				DRAWN BY STANTEC
				DATE 05/17/2021

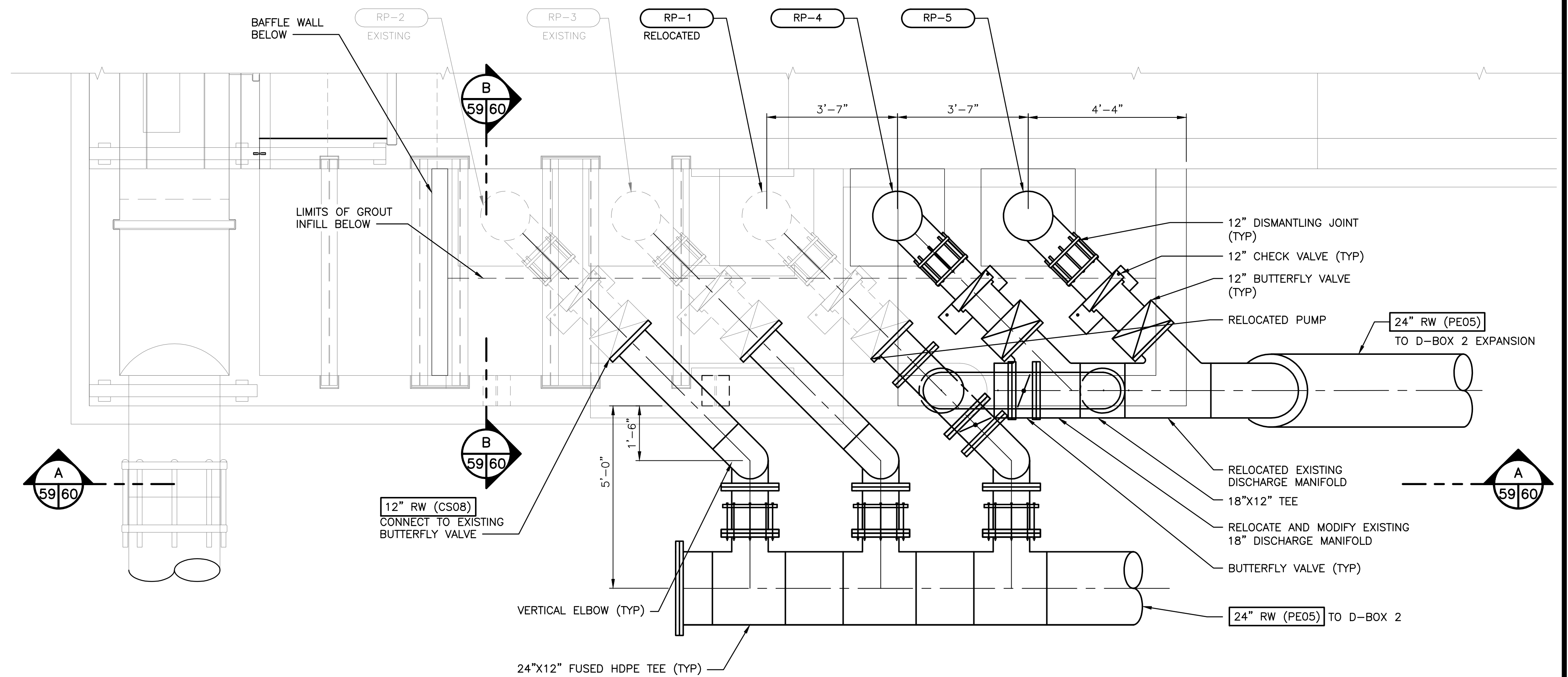
0 ——— 1"
 BAR MEASURES
 ONE INCH ON
 22x34 DRAWINGS

SOOS CREEK HATCHERY
 WATER SUPPLY TREATMENT
 SCREENED WATER CHAMBER
 PLAN AND SECTION

DISCIPLINE SHEET #	
M15.3	
PROJECT NO. XX:X##:####-#	
SHEET	OF
57	74



EXISTING REUSE BOX PLAN
SCALE: 1/2" = 1'-0"



REUSE BOX EXPANSION PLAN
SCALE: 1/2" = 1'-0"

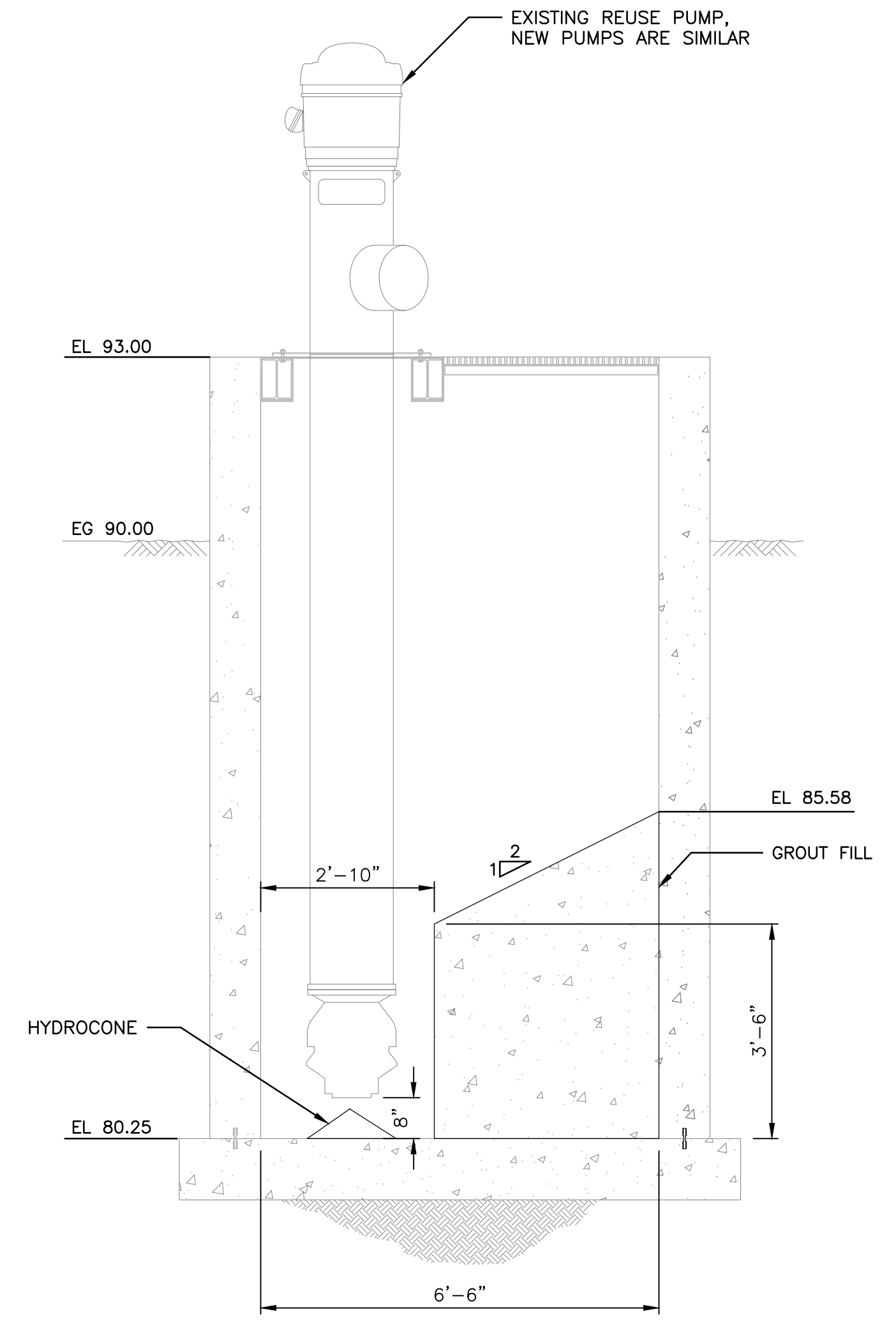
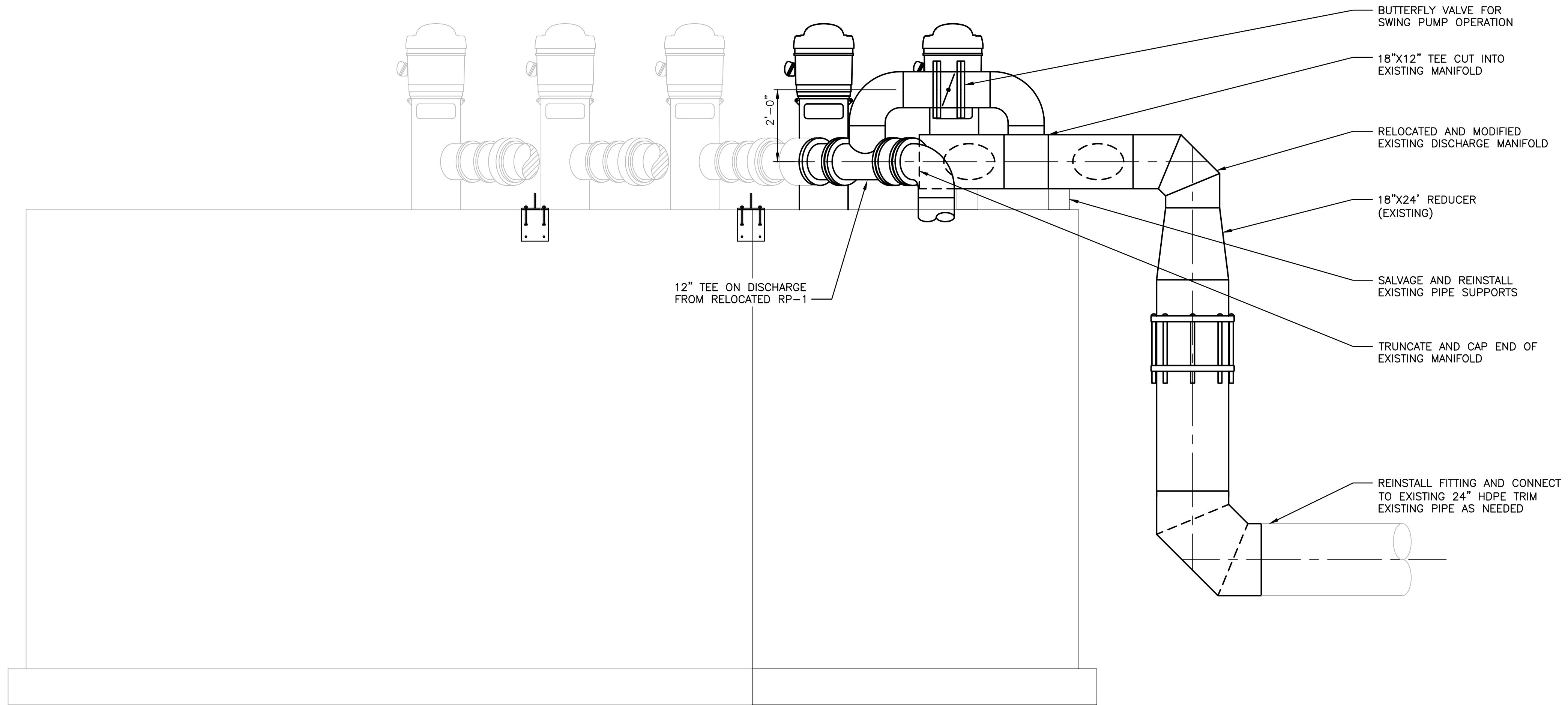
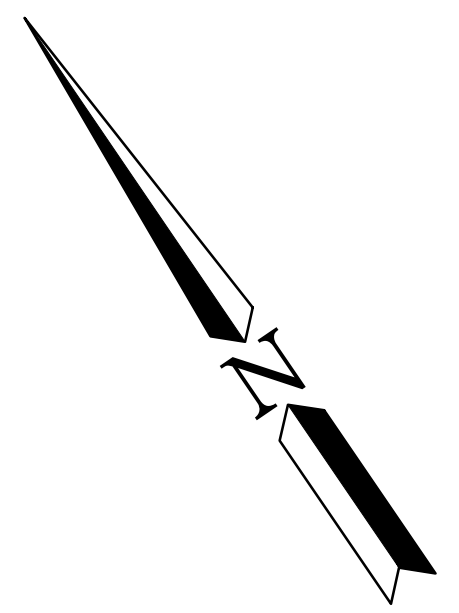


WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

SCHEMATIC DESIGN NOT FOR CONSTRUCTION MAY 17, 2021			0 — 1" BAR MEASURES ONE INCH ON 22x34 DRAWINGS
SYM	DATE	REVISION DESCRIPTION	BY
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CHIEF ENGINEER	DATE:	DESIGNED BY D. WHITBECK	
PROGRAM	DATE:	CHECKED BY —	
		DRAWN BY STANTEC	
		DATE 05/17/2021	

SOOS CREEK HATCHERY
WATER SUPPLY TREATMENT
REUSE BOX EXPANSION
PLAN

DISCIPLINE SHEET #	
M15.5	
PROJECT NO.	
XX:X##:####-#	
SHEET	OF
59	74



SECTION A
SCALE: 1/2" = 1'-0"
59/60

SECTION B
SCALE: 1/2" = 1'-0"
59/60



WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

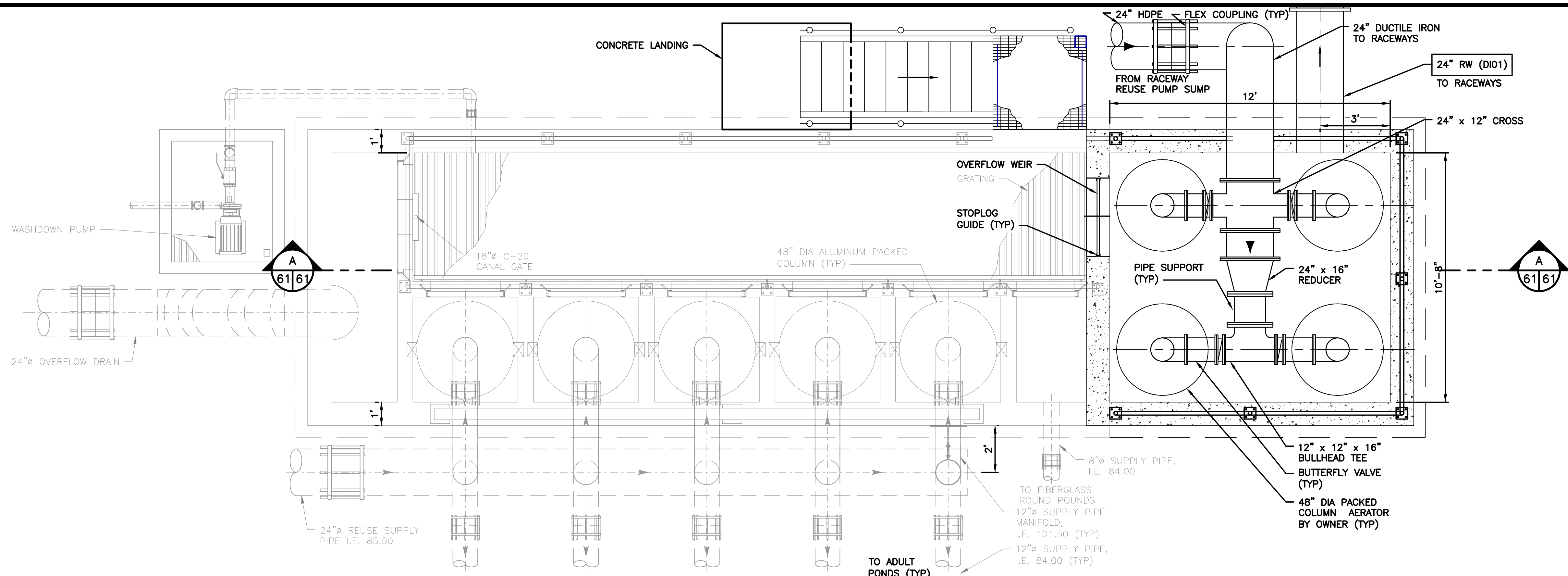
SCHEMATIC DESIGN NOT FOR CONSTRUCTION MAY 10, 2021			
SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER	DATE:		
PROGRAM	DATE:		

0 ——— 1"
BAR MEASURES
ONE INCH ON
22x34 DRAWINGS

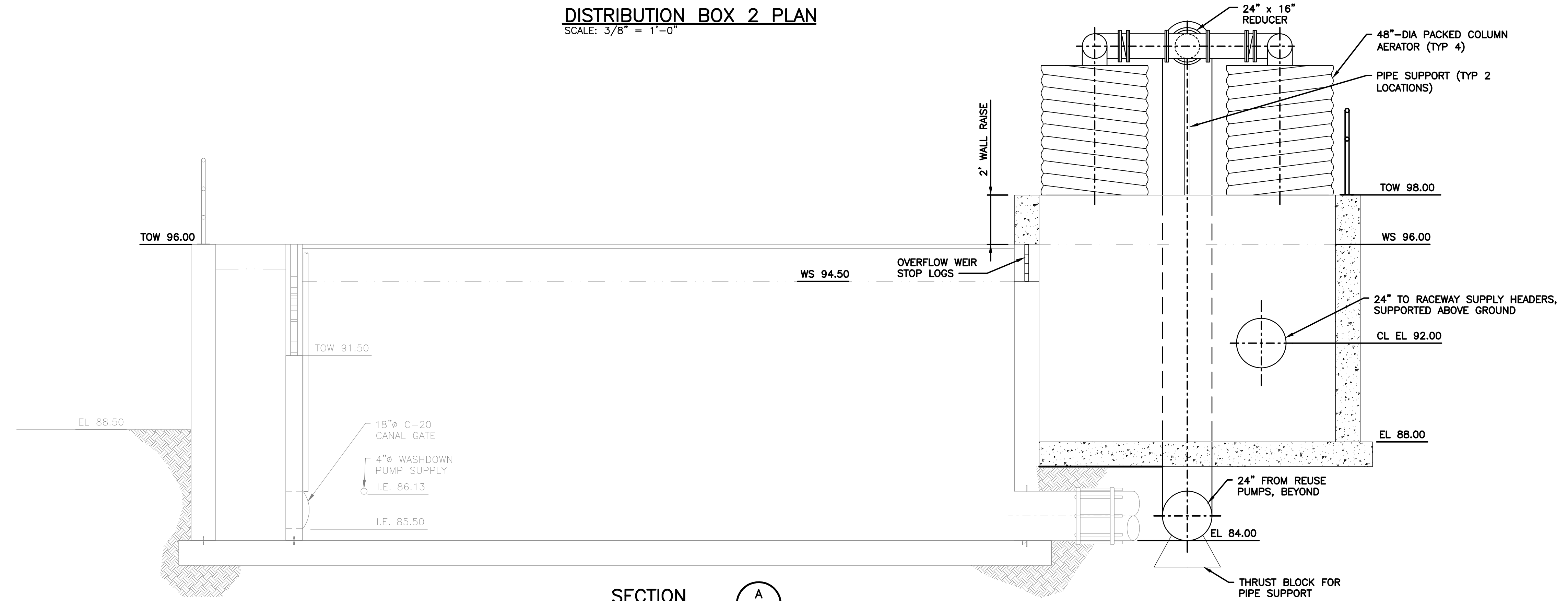
DESIGNED BY D. WHITBECK
CHECKED BY
DRAWN BY STANTEC
DATE 05/17/2021

SOOS CREEK HATCHERY
WATER SUPPLY TREATMENT
REUSE BOX EXPANSION
SECTIONS

DISCIPLINE SHEET #	
M15.6	
PROJECT NO. XX:X##:####-#	
SHEET	OF
60	74



DISTRIBUTION BOX 2 PLAN
SCALE: 3/8" = 1'-0"

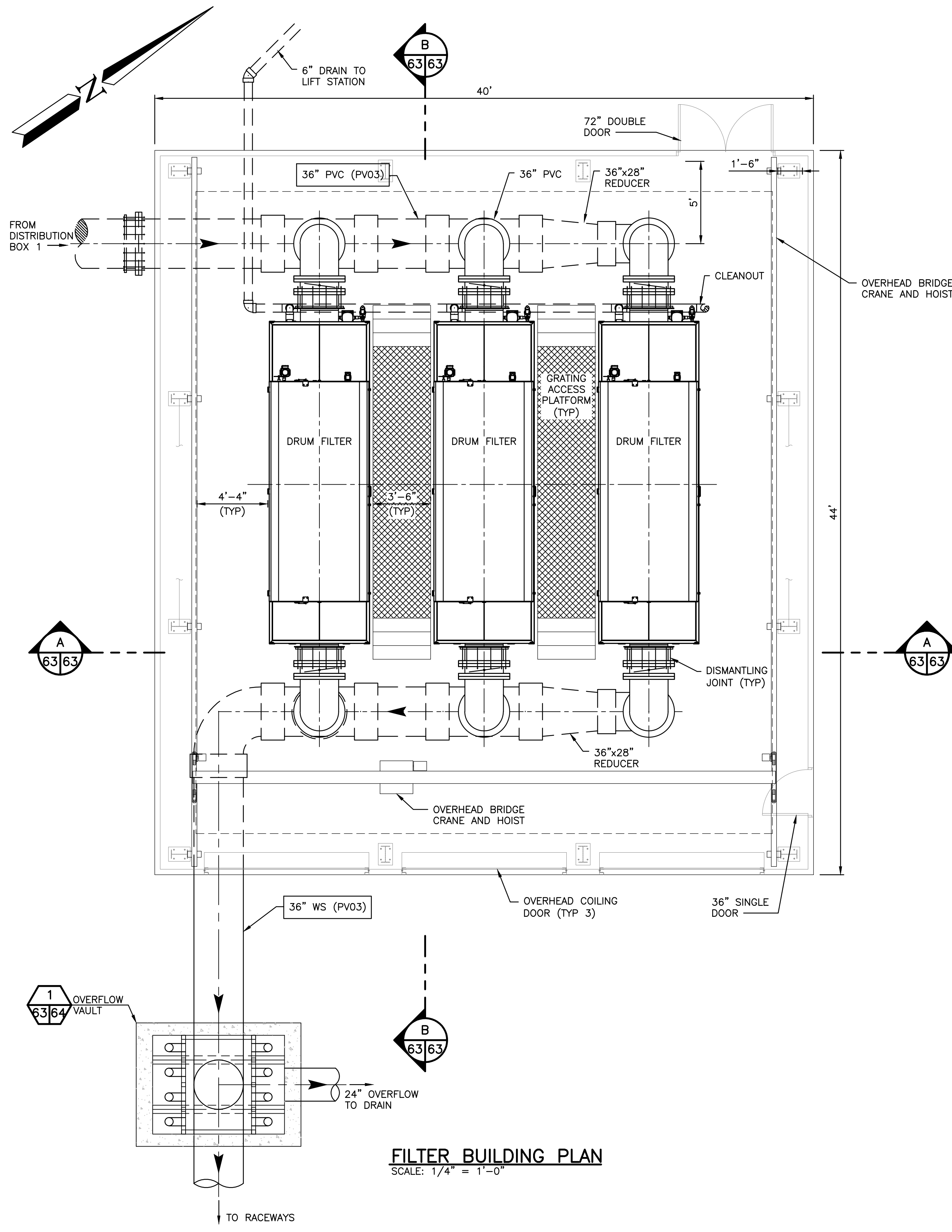


SECTION A-A
SCALE: 3/8" = 1'-0"

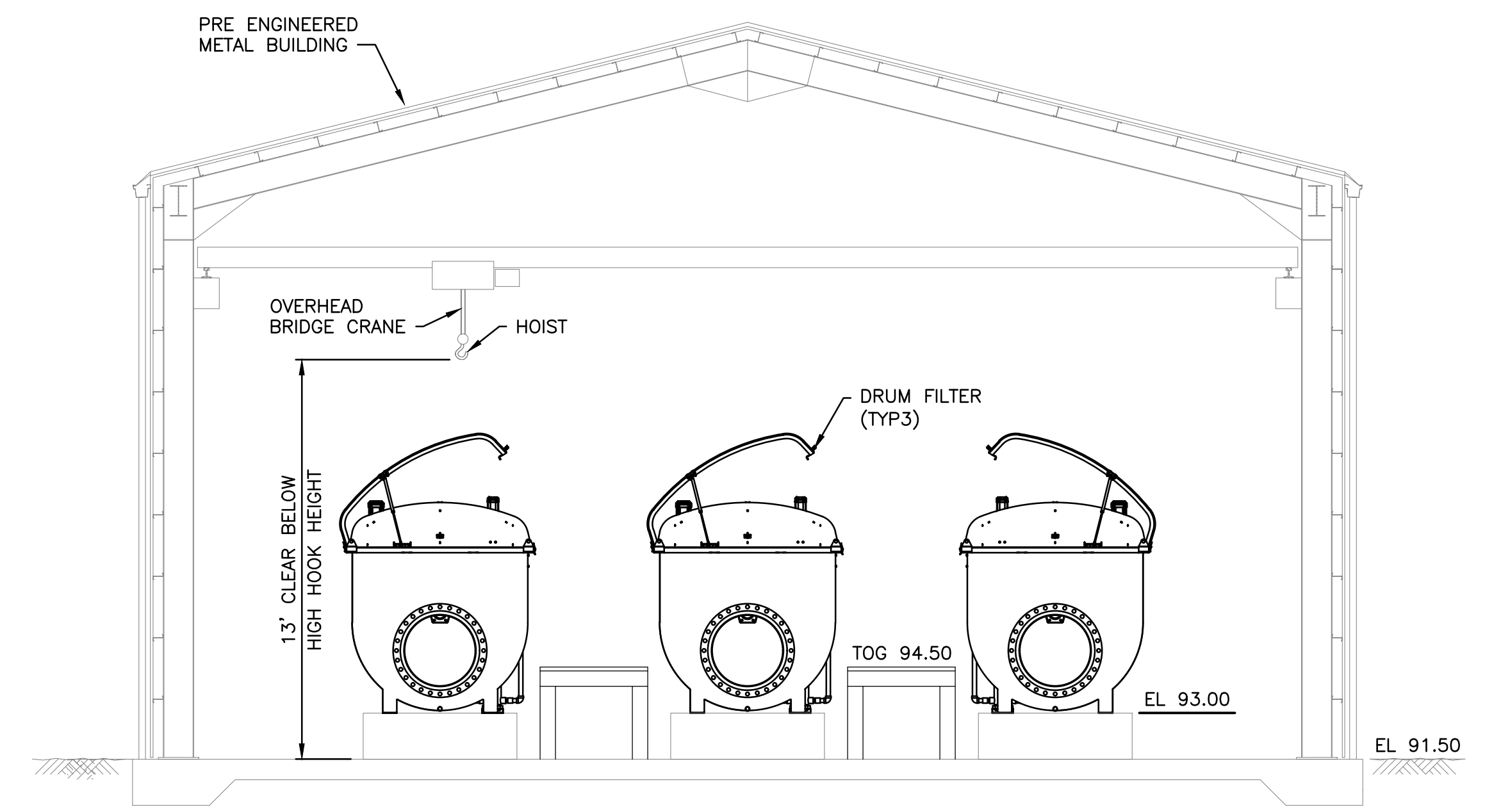
SCHEMATIC DESIGN NOT FOR CONSTRUCTION MAY 17, 2021			0 1" BAR MEASURES ONE INCH ON 22x34 DRAWINGS
SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			DESIGNED BY F. LAST
CHIEF ENGINEER			CHECKED BY F. LAST
PROGRAM			DRAWN BY S. NADKAR
DATE:			DATE MM/DD/YYYY

SOOS CREEK HATCHERY
WATER SUPPLY TREATMENT
DISTRIBUTION BOX 2
EXPANSION PLAN

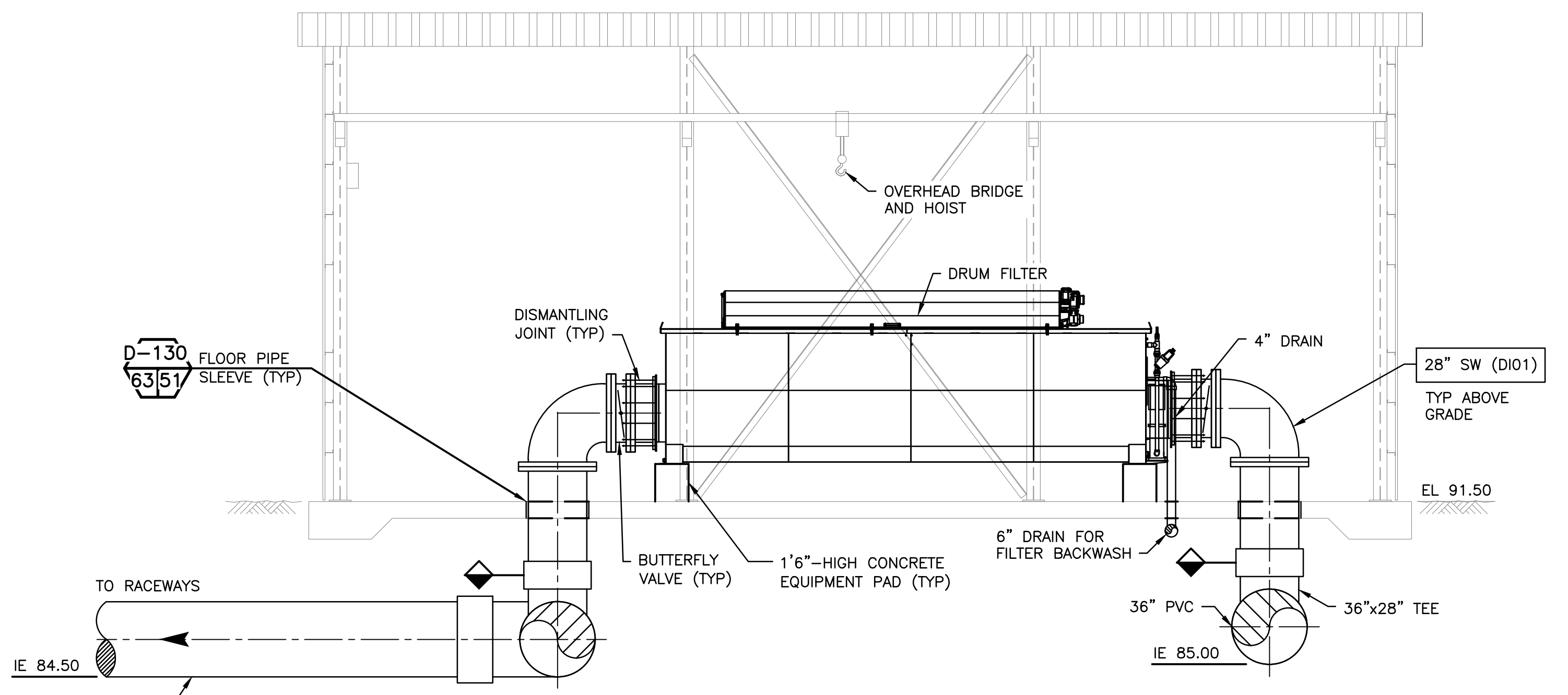
DISCIPLINE SHEET # M16.1	
PROJECT NO. XX:###:####-#	
SHEET 61	OF 74



FILTER BUILDING PLAN
SCALE: 1/4" = 1'-0"



SECTION A
SCALE: 1/4" = 1'-0"



SECTION B
SCALE: 1/4" = 1'-0"



WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

SCHEMATIC DESIGN NOT FOR CONSTRUCTION MAY 17, 2021			
SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER		DATE:	DESIGNED BY D. WHITBECK
PROGRAM		DATE:	CHECKED BY
			DRAWN BY STANTEC
			DATE 05/17/2021

SOOS CREEK HATCHERY
WATER SUPPLY TREATMENT
RACEWAY FILTER BUILDING
MECHANICAL PLAN AND SECTIONS

DISCIPLINE SHEET #	
M23.1	
PROJECT NO. KG:H7:2021-2	
SHEET	OF
63	74