



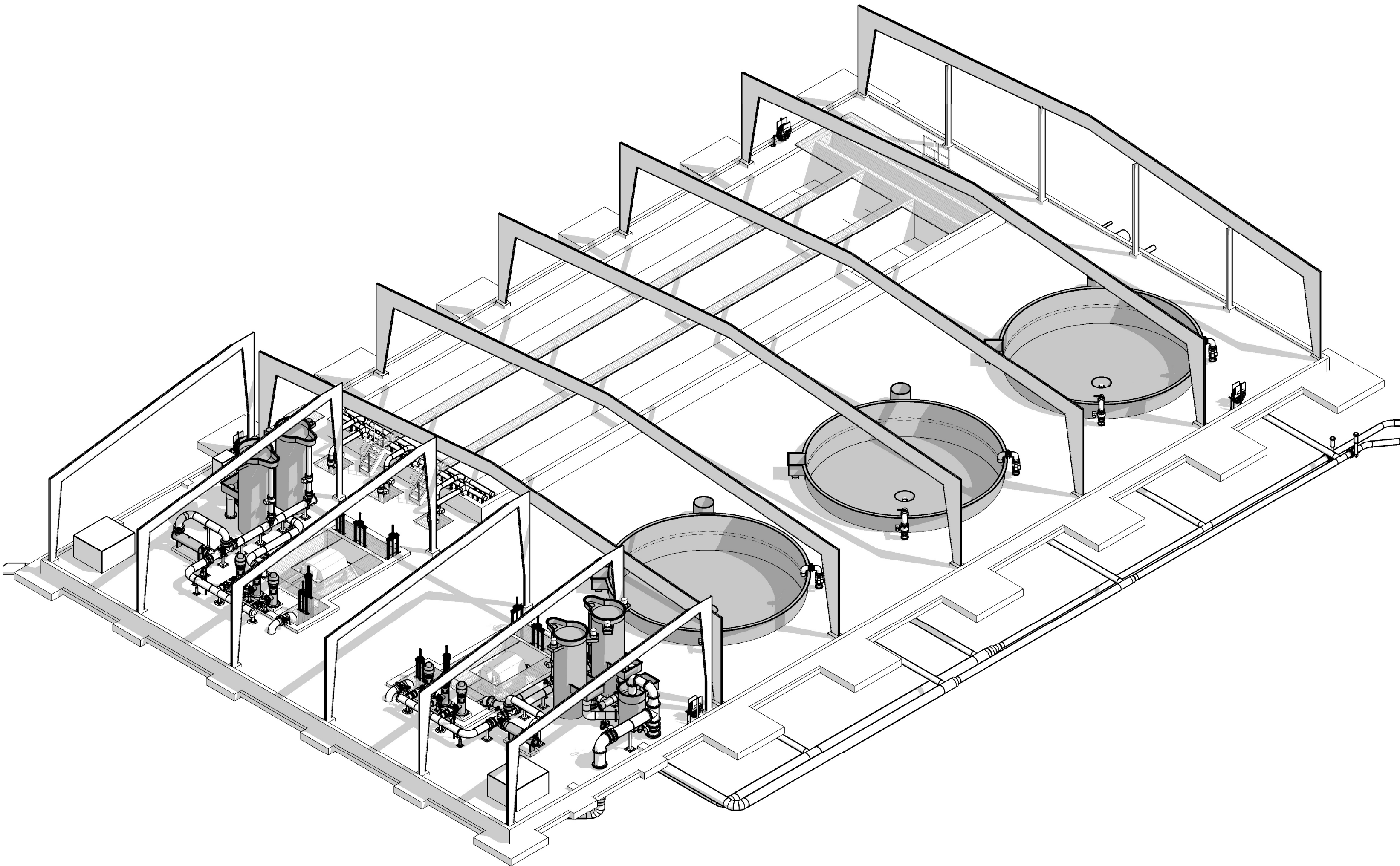
*WASHINGTON DEPARTMENT OF
FISH AND WILDLIFE*

*SOL DUC HATCHERY
MODIFICATIONS – PERMIT
CM:H32:2023-1*

PERMIT
SUBMITTAL
MAY 2025

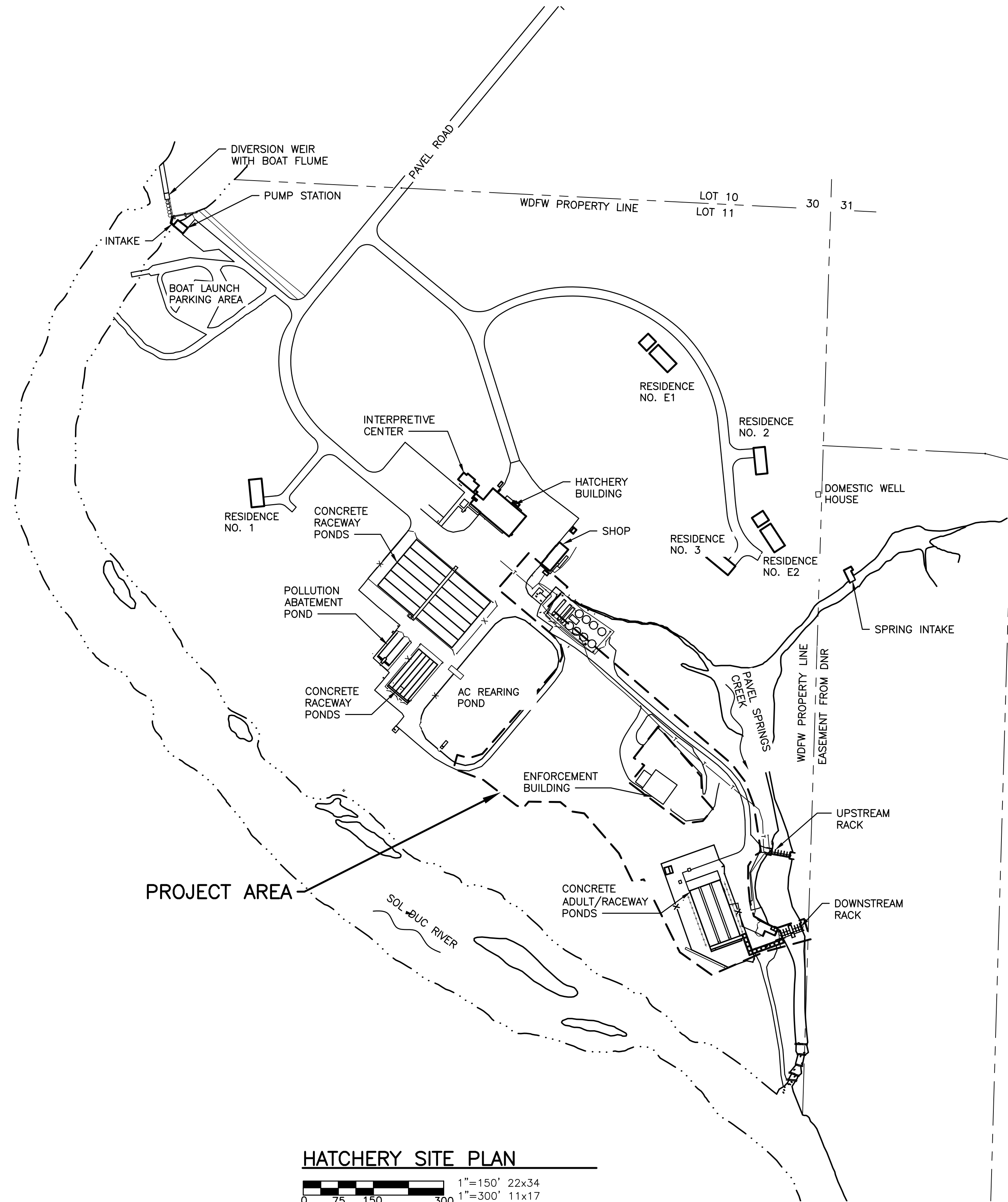
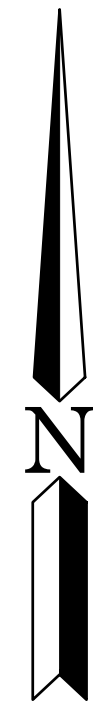
SHEET INDEX

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5	EXISTING SITE PLAN
6	PROPOSED OVERALL SITE PLAN
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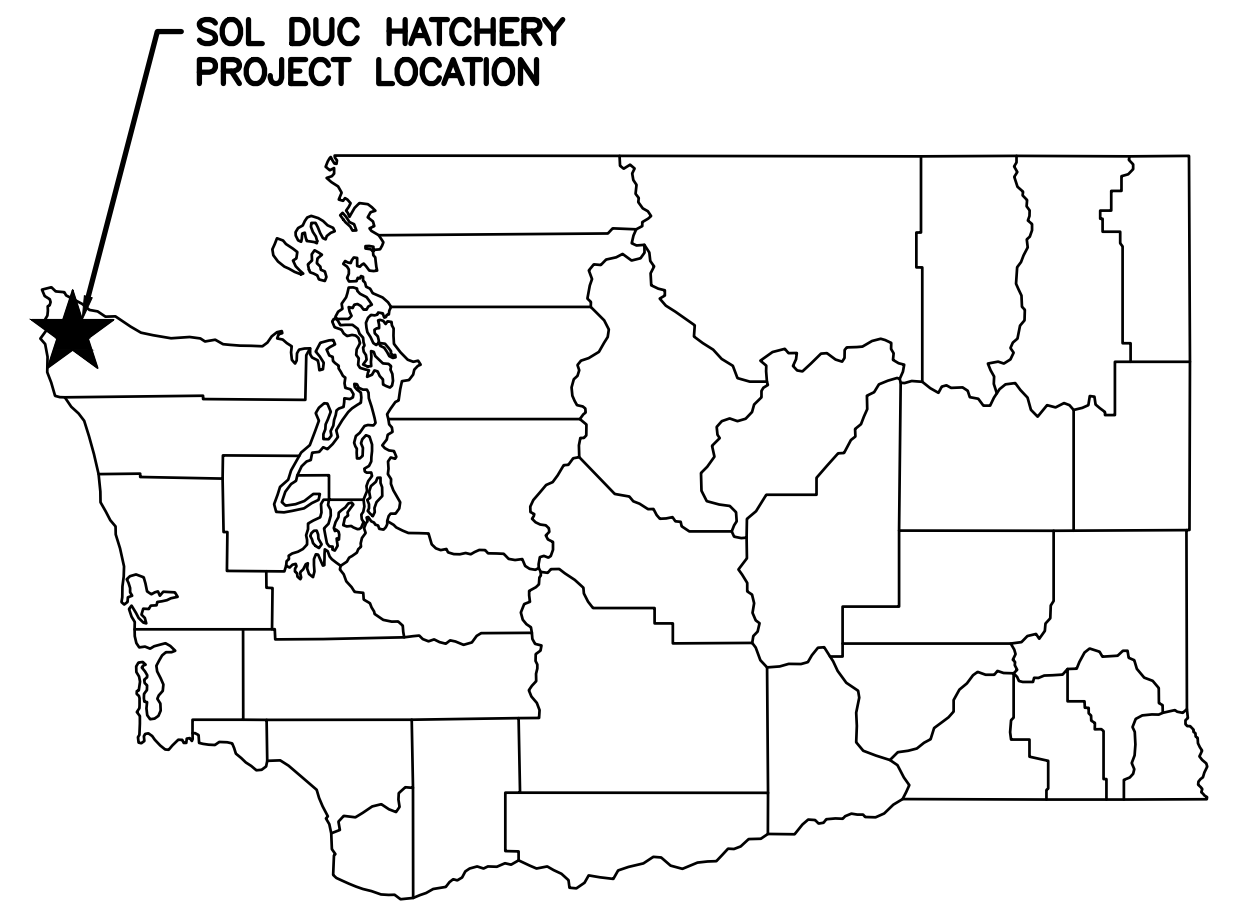


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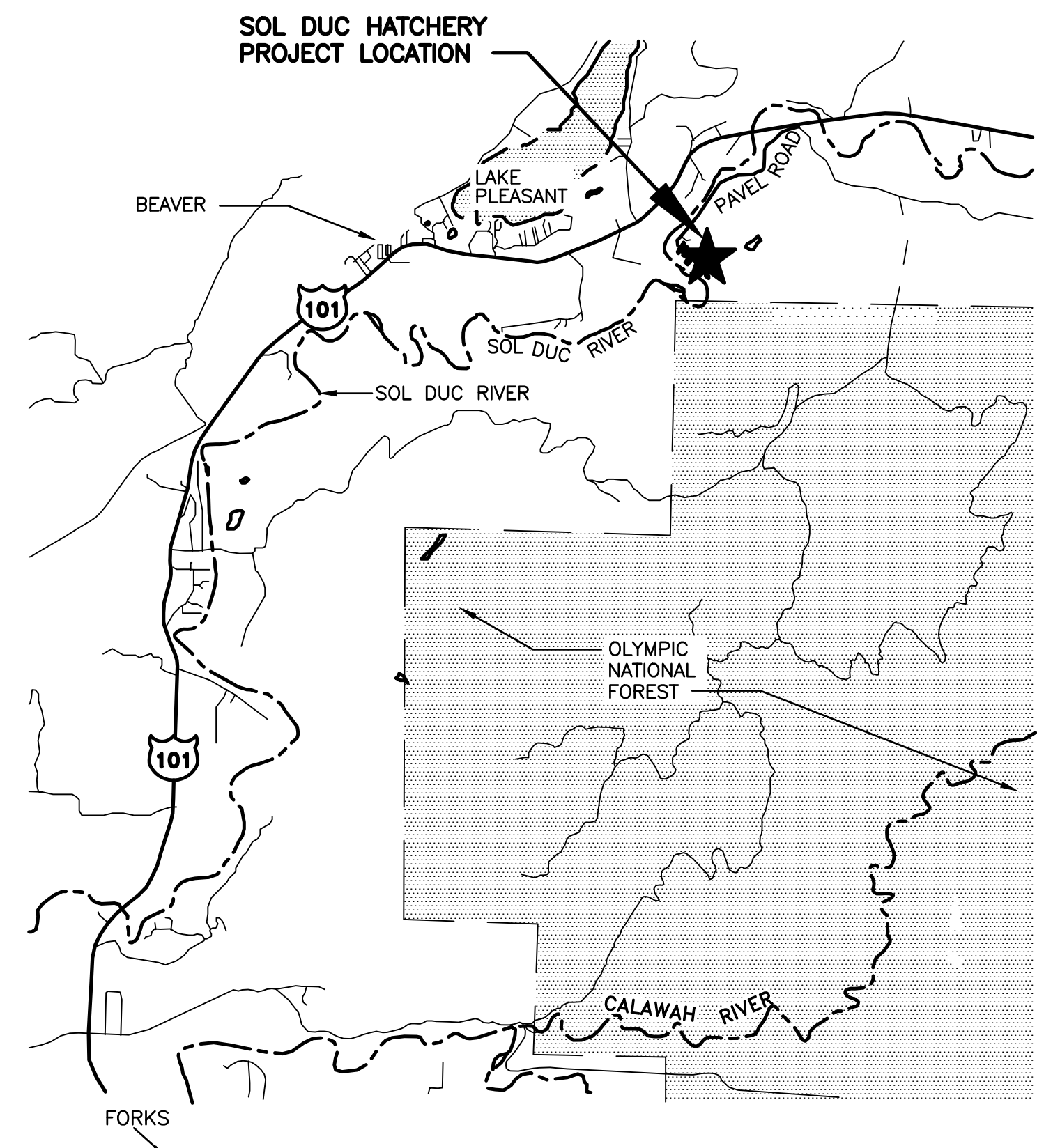
SHEET	OF
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HATCHERY SITE PLAN
1"=150' 22x34
1"=300' 11x17
0 75 150 300



STATE MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

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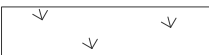
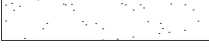
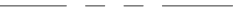


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		DESIGNED BY E. NORDHOLM	
DATE		CHECKED BY D.NICE	
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APPROVED AND RELEASED FOR CONSTRUCTION		DATE 5-15-2025	
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PROGRAM	DATE		

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STATE VICINITY & HATCHERY SITE PLAN		SHEET	OF
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LEGEND

EXISTING		PROPOSED	
	WETLAND		CRUSHED ROCK SURFACING
	AC SURFACING		NATIVE/ SEED RESTORATION
	CONCRETE SURFACING		ROOF STRUCTURE
	GRAVEL SURFACING		STORM DRAINAGE FEATURE
	CONTROL POINT		CONCRETE
	WATER LINE		WORK LIMITS/ LIMITS OF CONSTRUCTION
	FIBER OPTICS		SUPPLY / DRAIN PIPE
	POWER		MAJOR CONTOUR
	TELEPHONE		MINOR CONTOUR
	ROOF DRAIN/DRAIN FIELD		
	FENCE		
	UNDERGROUND ALARM		
	UNDERGROUND ELECTRICAL		
	EDGE OF WATER		
	ORDINARY HIGH WATER		
	SHORELINE BUFFER		
	WETLAND BUFFER		
	100 YEAR FLOOD LINE		
	PROPERTY LINE		
	MAJOR CONTOUR		
	MINOR CONTOUR		
	TREE		
	DECIDUOUS TREE		

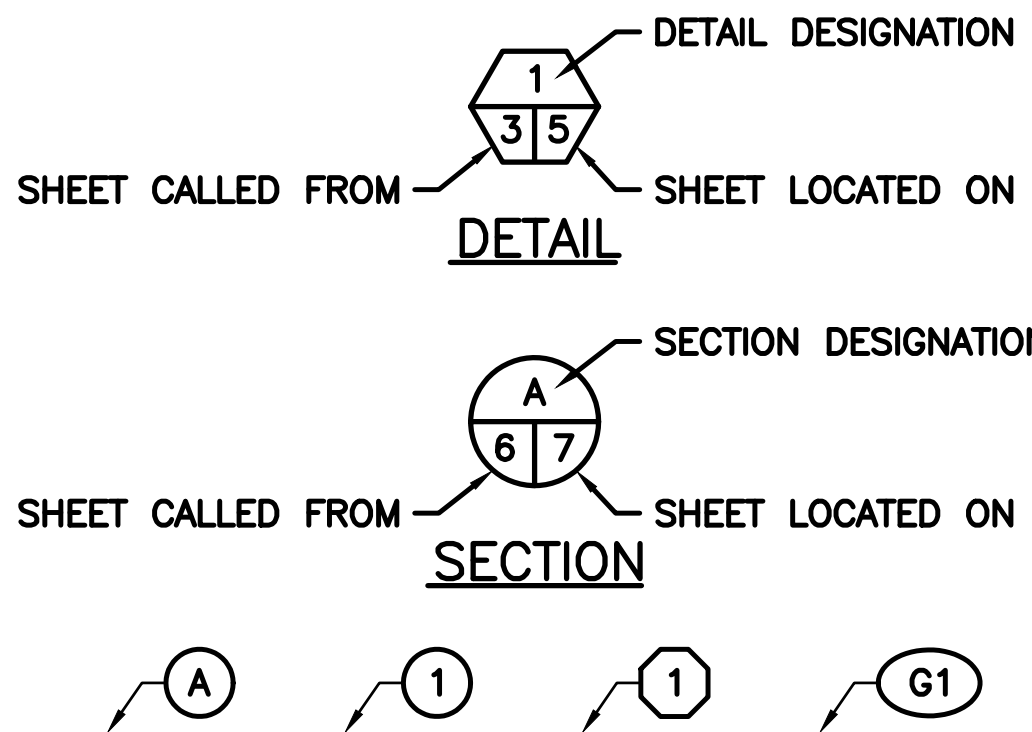
PIPE LEGEND

BD	BOTTOM DRAIN
CWE	CLEANING WASTE EFFLUENT
D	DRAIN
FR	FISH RELEASE
FCW	FORCED CLEANING WASTE
OFD	OVERFLOW DRAIN
RWR	RECIRCULATED WATER RETURN
RWS	RECIRCULATED WATER SUPPLY
SWS	WATER SUPPLY
WD	WASHDOWN

ABBREVIATIONS

AC	-	ASPHALT CONCRETE
ALUM	-	ALUMINUM
L	-	ANGLE
APPROX	-	APPROXIMATELY
BM	-	BENCH MARK
CL	-	CENTERLINE
CMP	-	CORRUGATED METAL PIPE
CLR	-	CLEARANCE
CONC	-	CONCRETE
CSBC	-	CRUSHED SURFACE BASE COURSE
CSTC	-	CRUSHED SURFACE TOP COURSE
DIA	-	DIAMETER
EL, ELEV	-	ELEVATION
EOCR	-	EDGE OF CRUSHED ROCK
FB	-	FLAT BAR
FF	-	FINISHED FLOOR
FFE	-	FISHED FLOOR ELEVATION
FTG	-	FOOTING
GALV	-	GALVANIZED
GS	-	GROUND SURFACE
ID	-	INSIDE DIAMETER
IE	-	INVERT ELEVATION
IS	-	INLET STRUCTURE
MEG	-	MATCH EXISTING GRADE
MFG	-	MANUFACTURER'S
MISC	-	MISCELLANEOUS
OC	-	ON CENTER
OD	-	OUTSIDE DIAMETER
OS	-	OUTLET STRUCTURE
PA	-	POLLUTION ABATEMENT
PL	-	PLATE
REQ'D	-	REQUIRED
SEC	-	SECTION
SD	-	STORM DRAIN
SPEC'S	-	PROJECT SPECIFICATIONS
SS	-	STAINLESS STEEL
STD	-	STANDARD
STL	-	STEEL
TOC	-	TOP OF CONCRETE
TOS	-	TOP OF SLAB
TOW	-	TOP OF WALL
TYP	-	TYPICAL
WS	-	WATER SURFACE
WSE	-	WATER SURFACE ELEVATION

SHEET SYMBOLS



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PAUL
133036130050

MEEK
133036130000

DAWLEY
133036140050

DNR
133036420000

DNR
133036230000

EDGE OF
WATER ~ TYP

INTAKE

PUMP STATION

WDFW PROPERTY LINE

BOAT LAUNCH
PARKING AREA

INTERPRETIVE
CENTER

RESIDENCE
NO. E1

RESIDENCE
NO. 2

RESIDENCE
NO. E2

DOMESTIC WELL
HOUSE

RESIDENCE
NO. 1

CONCRETE
RACEWAY
PONDS

HATCHERY
BUILDING

SHOP

RESIDENCE
NO. 3

POLLUTION
ABATEMENT
POND

SPRING INTAKE

CONCRETE
RACEWAY
PONDS

AC REARING
POND

ENFORCEMENT
BUILDING

UPSTREAM
RACK

CONCRETE
ADULT/RACEWAY
PONDS

DOWNSTREAM
RACK

SOL DUC RIVER

PROPERTY SITE PLAN

0 75 150 300
1"=150' 22x34
1"=300' 11x17

PROPERTY INFORMATION:

ADDRESS: 1423 PAVEL ROAD
BEAVER, WASHINGTON 98305-9600

COUNTY: CLALLAM
PARCEL #: 133036410025
LAT: 48.05508
LONG: -124.30611
TOWNSHIP: 30N
RANGE: 13W
SECTION: 36



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PROGRAM	DATE:	

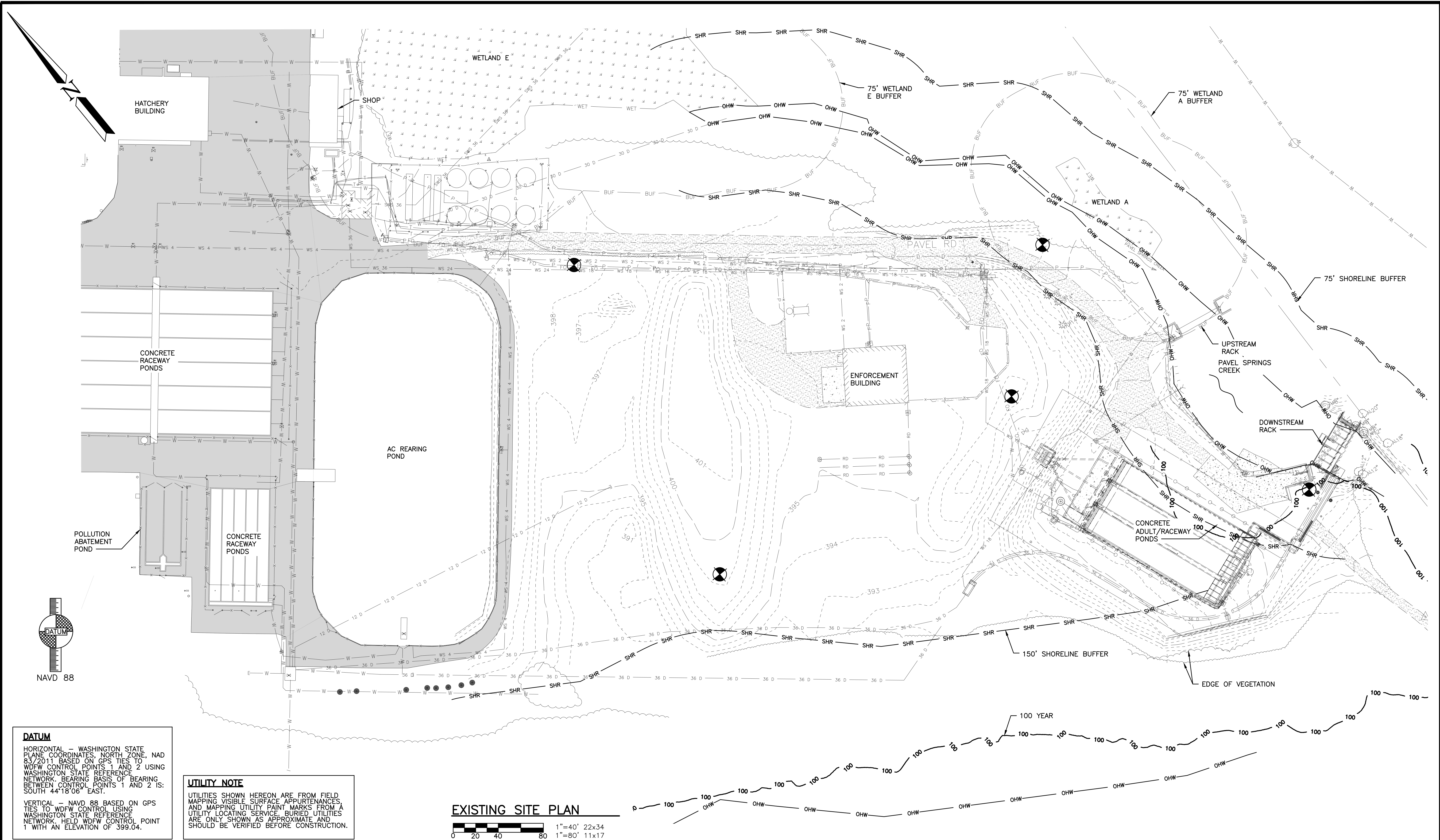
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DRAWN BY N.WHITE
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PROPERTY SITE PLAN

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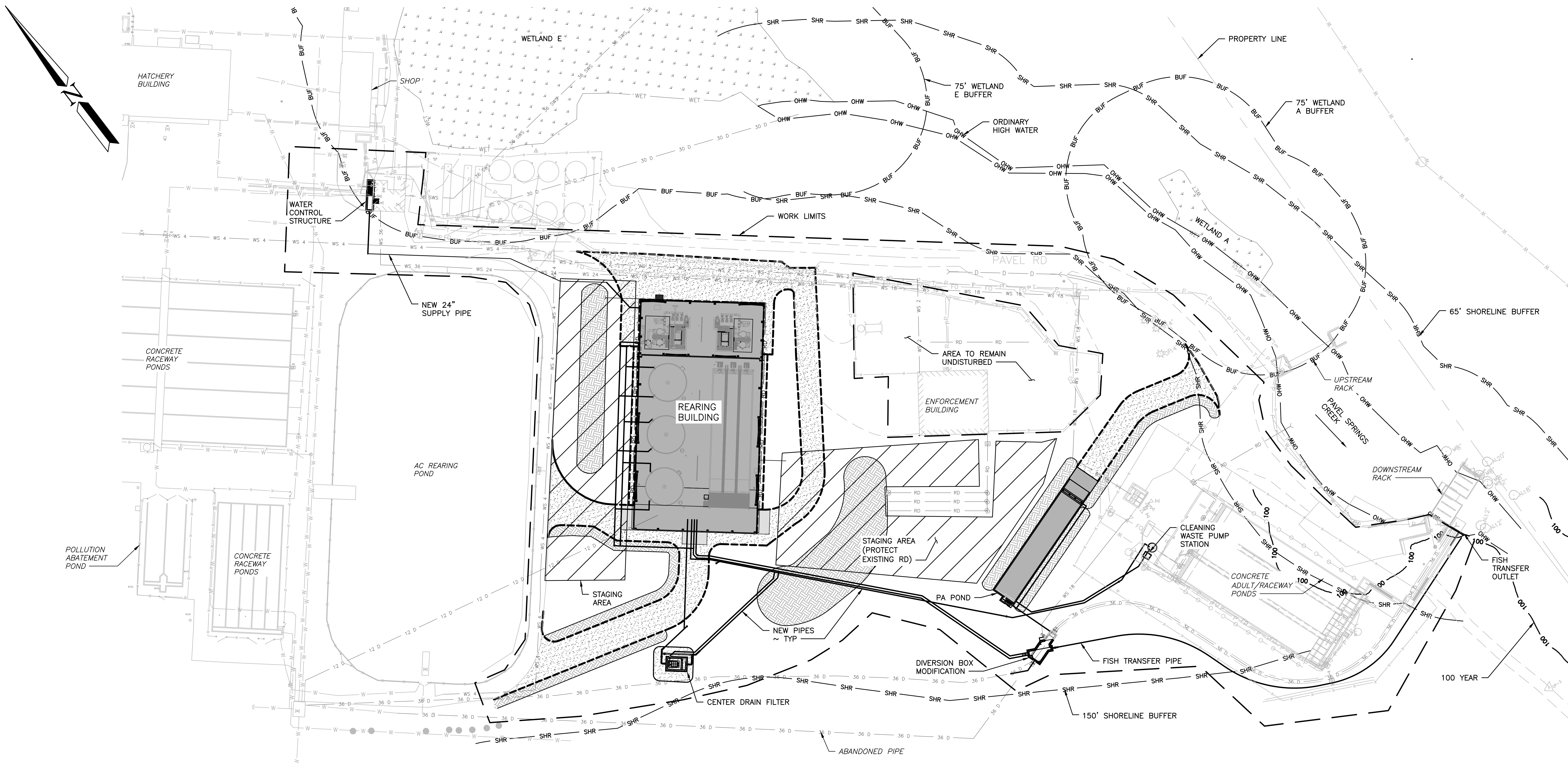
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PROGRAM	DATE	
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	CHECKED BY D.NICE	
	DRAWN BY N.WHITE	
	DATE 5-15-2025	

SOL DUC HATCHERY MODIFICATIONS - PERMIT EXISTING SITE PLAN	
PROJECT NO. CM:H32:2023-1	
SHEET 5	OF 15

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PROPOSED OVERALL SITE PLAN

1"=40' 22x34
1"=80' 11x17

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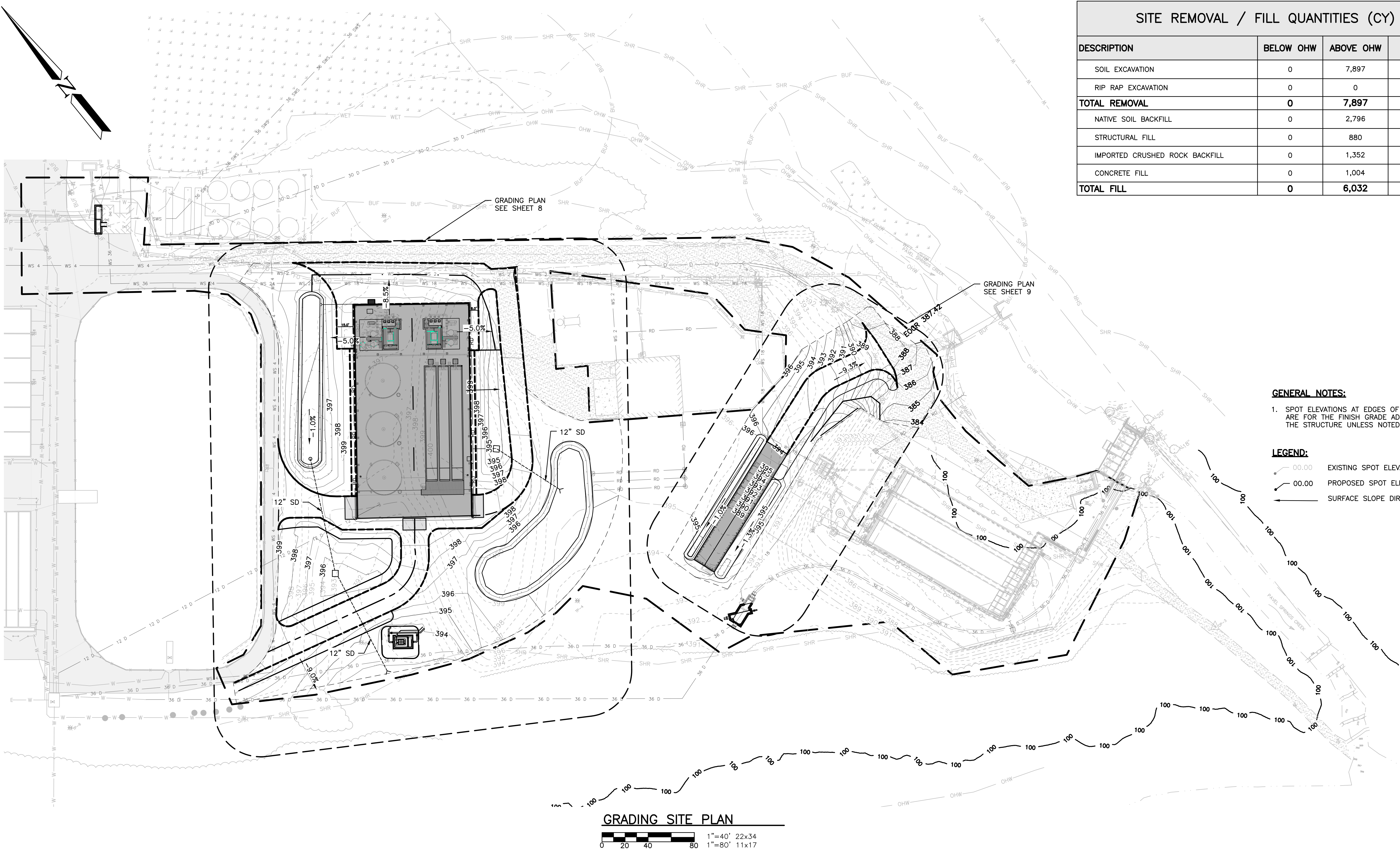
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PROPOSED OVERALL SITE PLAN		SHEET	OF
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SITE REMOVAL / FILL QUANTITIES (CY)			
DESCRIPTION	BELOW OHW	ABOVE OHW	TOTAL
SOIL EXCAVATION	0	7,897	7,897
RIP RAP EXCAVATION	0	0	0
TOTAL REMOVAL	0	7,897	7,897
NATIVE SOIL BACKFILL	0	2,796	2,796
STRUCTURAL FILL	0	880	880
IMPORTED CRUSHED ROCK BACKFILL	0	1,352	1,352
CONCRETE FILL	0	1,004	1,004
TOTAL FILL	0	6,032	6,032

GENERAL NOTES:

1. SPOT ELEVATIONS AT EDGES OF STRUCTURES ARE FOR THE FINISH GRADE ADJACENT TO THE STRUCTURE UNLESS NOTED OTHERWISE.

- LEGEND:**
- 00.00 EXISTING SPOT ELEVATION
 - 00.00 PROPOSED SPOT ELEVATION
 - SURFACE SLOPE DIRECTION

GRADING SITE PLAN

0 20 40 80 1"=40' 22x34 1"=80' 11x17



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DATE 5-15-2025	

SOL DUC HATCHERY
MODIFICATIONS — PERMIT
GRADING SITE PLAN

PROJECT NO.
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GENERAL NOTES:

1. SPOT ELEVATIONS AT EDGES OF STRUCTURES ARE FOR THE FINISH GRADE ADJACENT TO THE STRUCTURE UNLESS NOTED OTHERWISE.
2. WALKING PATHS AROUND BUILDING SHALL BE 4-FT WIDE AND HAVE MAX. CROSS-SLOPE OF 5.0% AWAY FROM BUILDING

LEGEND:

- 00.00 EXISTING SPOT ELEVATION
- 00.00 PROPOSED SPOT ELEVATION
- SURFACE SLOPE DIRECTION

ABBREVIATIONS:

- EOCR EDGE OF CRUSHED ROCK PAVEMENT
- FFE FINISHED FLOOR ELEVATION
- GS GROUND SURFACE ELEVATION
- MEG MATCH EXISTING GRADE
- SD STORM DRAIN
- TOS TOP OF SLAB
- OS OUTLET STRUCTURE
- IS INLET STRUCTURE
- CL CENTERLINE
- DP DRAINAGE PATH

CONTRACTOR TO LOCATE AND PROTECT EXISTING ROOF DRAIN OUTLETS FOR DURATION OF CONSTRUCTION

GRADING PLAN – REARING POND

0 10 20 40 1"=20' 22x34
1"=40' 11x17



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		CHIEF ENGINEER	DATE:
		PROGRAM	DATE:

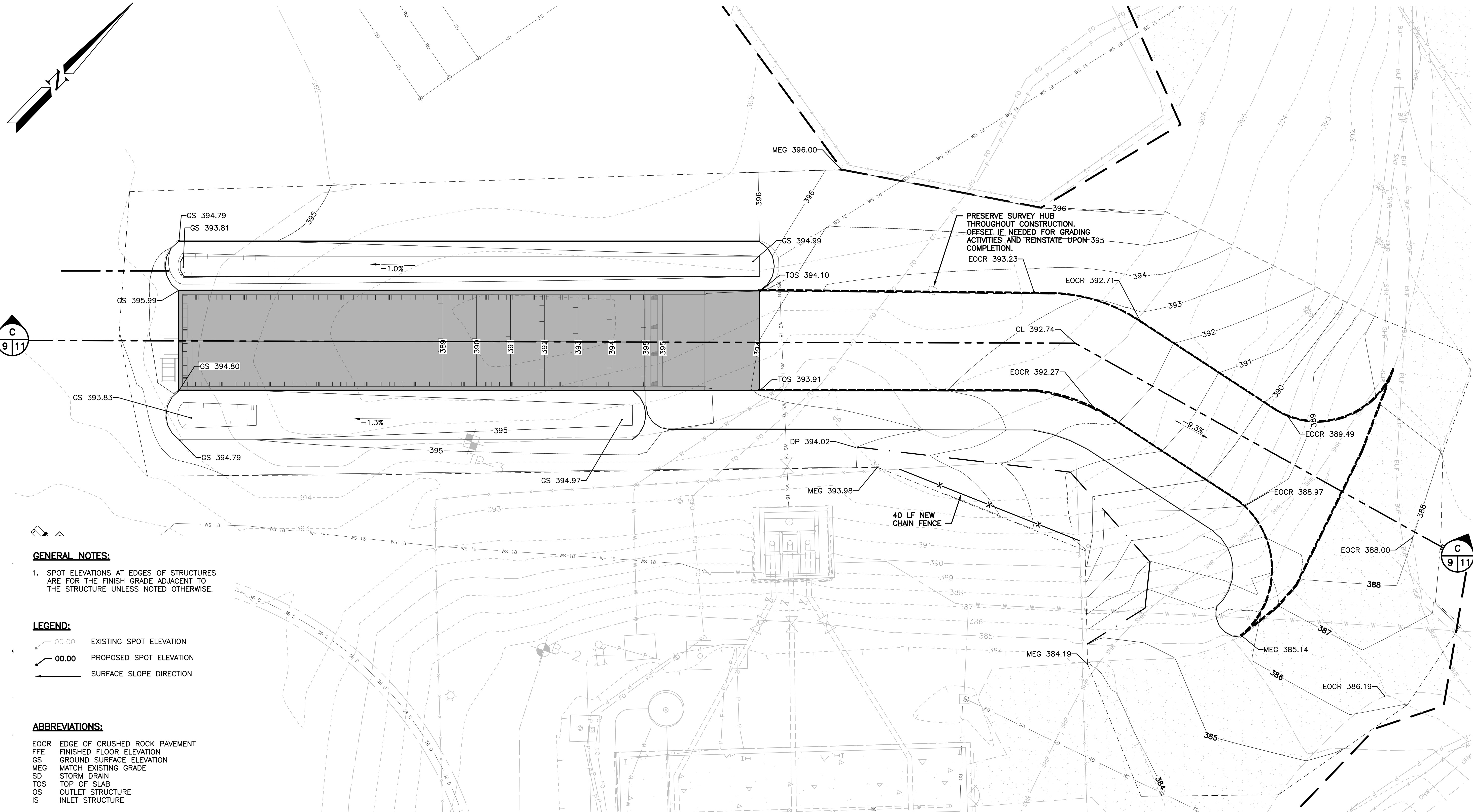
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GRADING REARING POND

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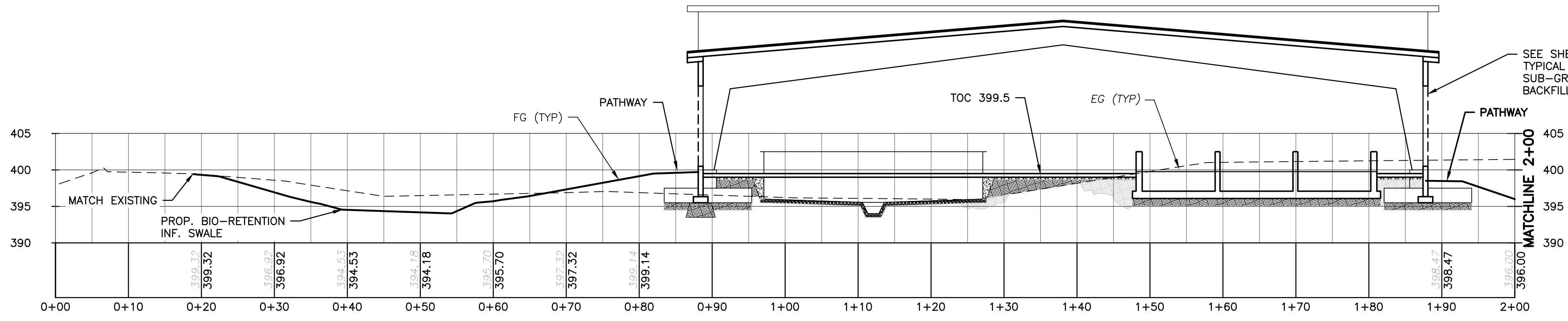
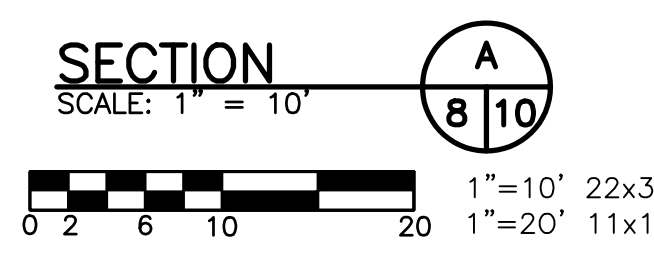
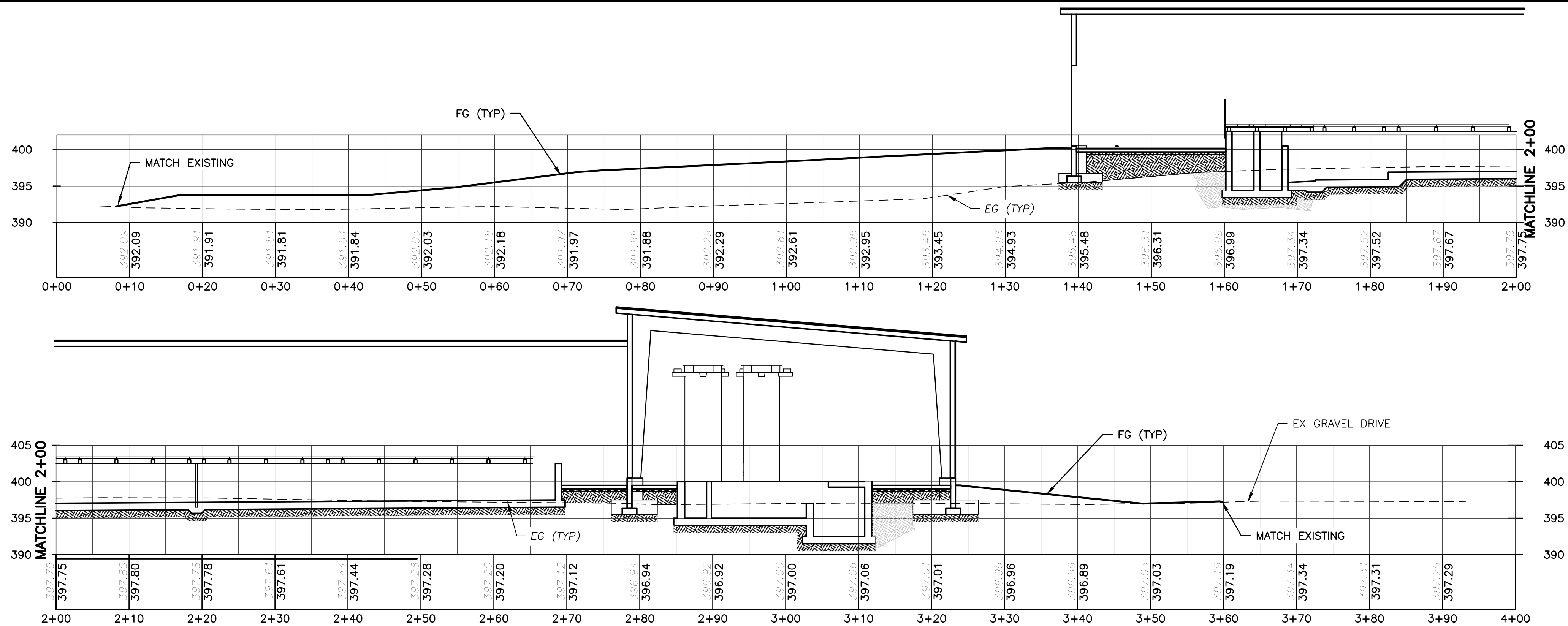


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CHIEF ENGINEER	DATE:		
PROGRAM	DATE:		
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			DRAWN BY NW, KH
			DATE 5-15-2025

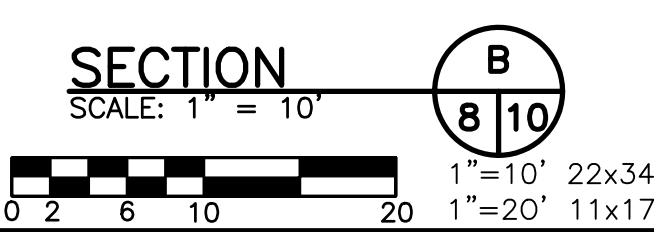
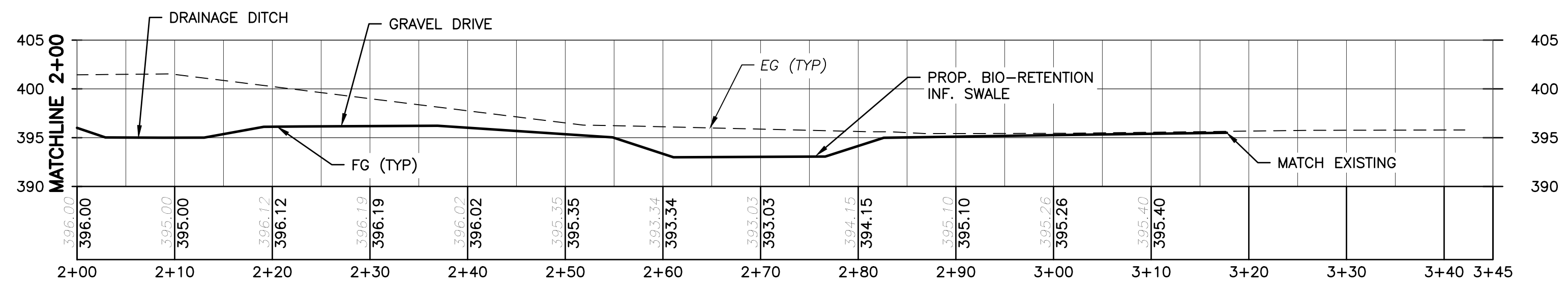
SOL DUC HATCHERY
MODIFICATIONS — PERMIT
GRADING PA POND

PROJECT NO.
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SEE SHEET 11, REARING BUILDING TYPICAL FILL DETAIL FOR TYPICAL SUB-GRADE PREPARATION AND BACKFILL REQUIREMENTS.



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DANIEL JAY NICE
REGISTERED PROFESSIONAL ENGINEER
35304
5/22/2025

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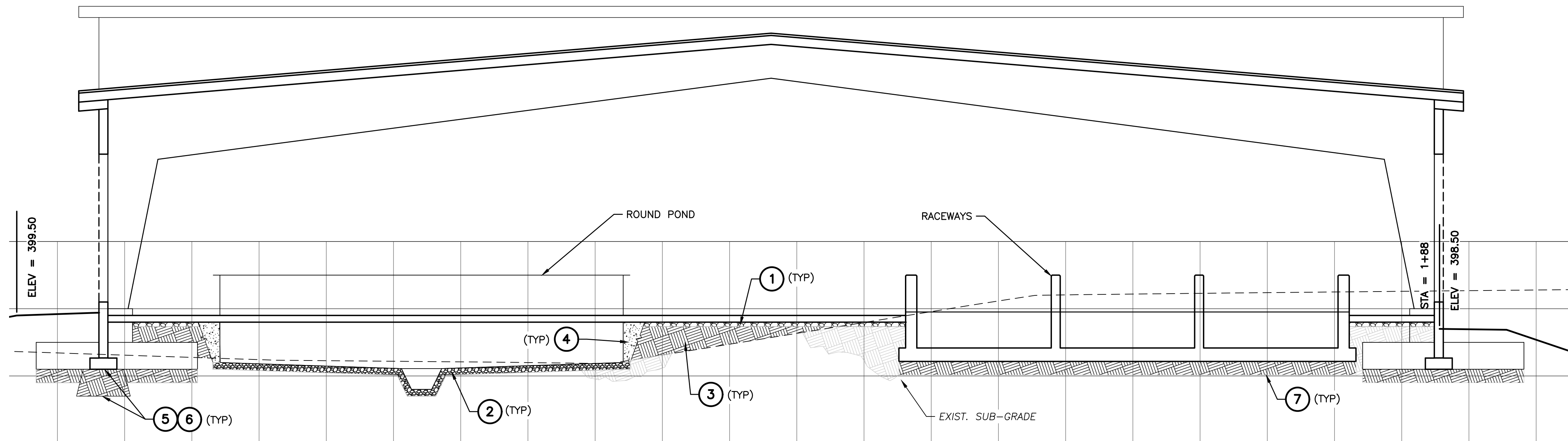
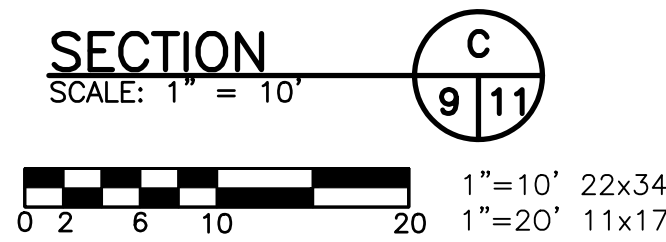
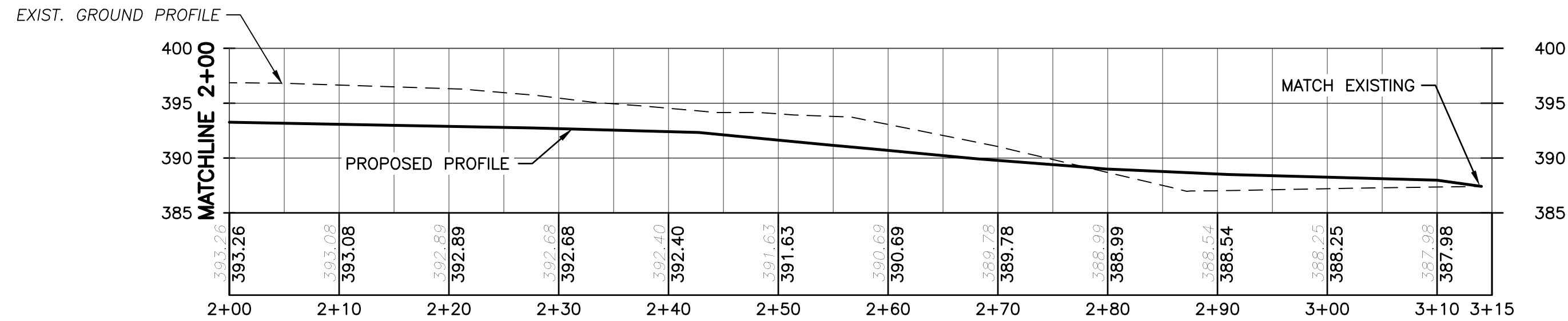
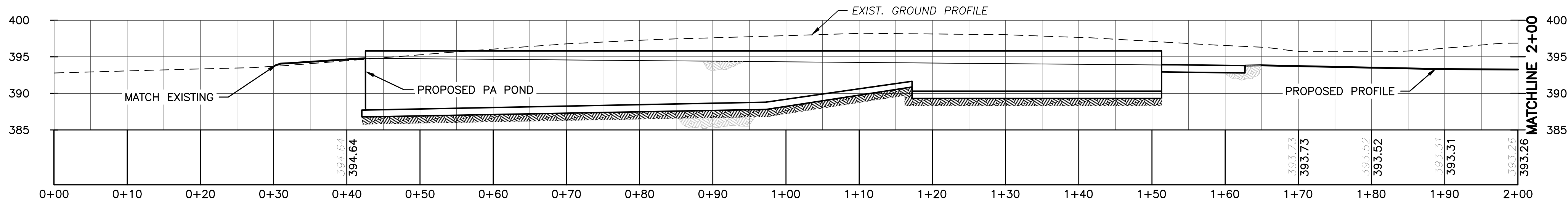
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PROGRAM: _____

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SOL DUC HATCHERY
MODIFICATIONS — PERMIT
GRADING PROFILES

PROJECT NO.
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REARING BUILDING TYPICAL FILL



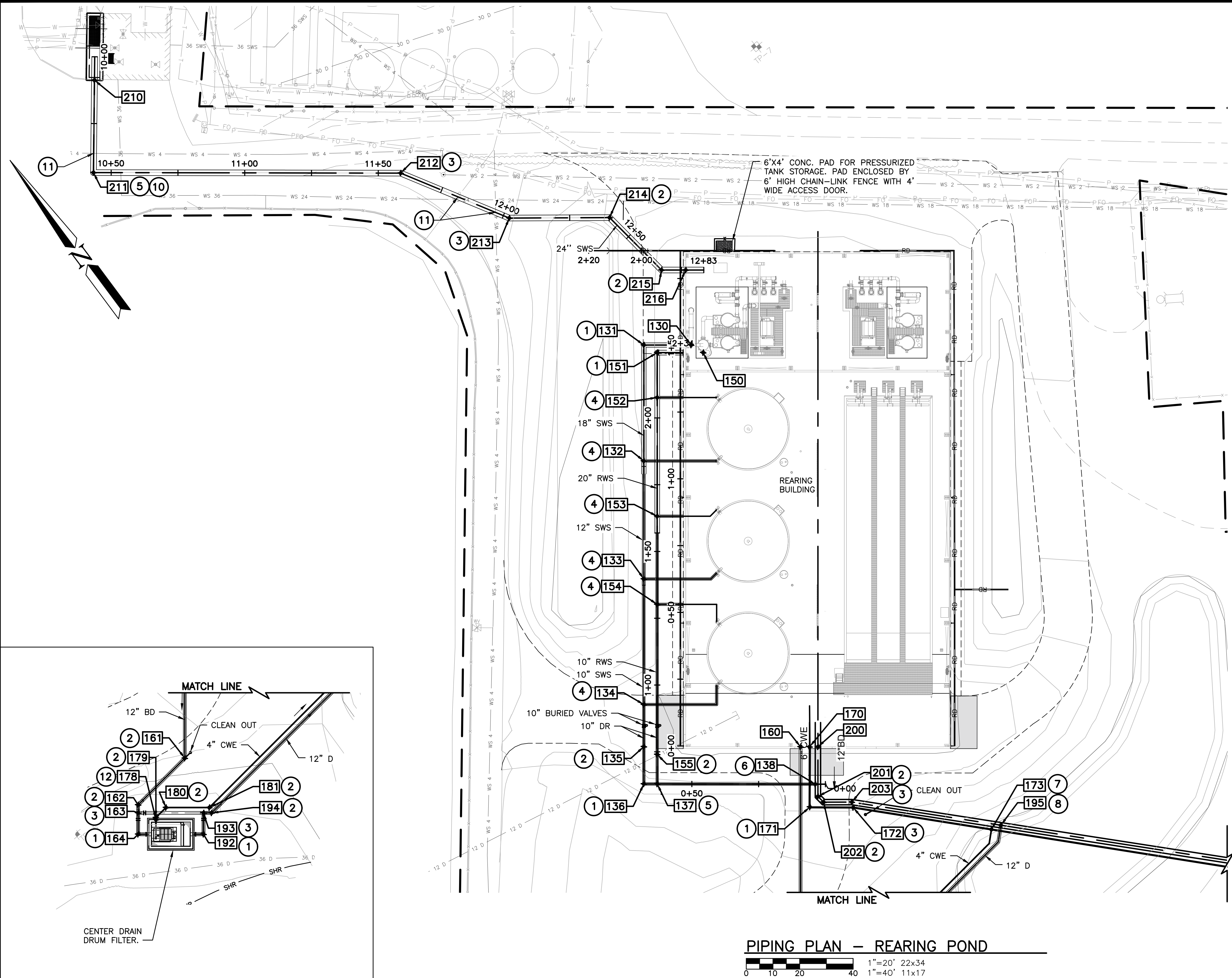
KEYED NOTES #

- 4" LAYER OF 1 1/2"-MINUS CSBC UNDER BUILDING SLAB. CRUSHED ROCK TO CONFORM TO WSDOT STANDARD 9-03.9(3) IN ACCORDANCE WITH SPECIFICATION SECTION 02220. AN 8-MIL POLYETHYLENE VAPOR BARRIER SHALL BE PLACED ABOVE CSBC LAYER (DIRECTLY BELOW THE SLAB).
- 6" LAYER OF 3/4"-MINUS CSTC UNDER ROUND PONDS. CRUSHED ROCK TO CONFORM TO WSDOT STANDARD 9-03.9(3) IN ACCORDANCE WITH SPECIFICATION SECTION 02220.
- STRUCTURAL FILL PLACED OVER NATIVE SITE SOILS. WHERE STRUCTURAL FILL IS LESS THEN 2 FEET THICK AND BEARS ON LOOSE ALLUVIAL SILTS (DETERMINED BY OWNER OR ENGINEER), THE OVERLYING SOILS SHALL BE OVER EXCAVATED TO A DEPTH OF 2' AND REPLACED WITH STRUCTURAL FILL.
- CONTROLLED DENSITY FILL (CDF) PLACED AT ROUND POND PERIMETER AND SHALL EXTEND FROM BASE OF POND TO BOTTOM OF BUILDING SLAB.
- ALL FOOTINGS SHALL BEAR ON STRUCTURAL FILL TO A MINIMUM DEPTH OF 12". WHERE DENSE ALLUVIUM IS NOT PRESENT BELOW THE 12" LAYER OF STRUCTURAL FILL (DETERMINED BY OWNER OR ENGINEER), THE OVERLYING SOILS SHALL BE OVEREXCAVATED TO DENSE ALLUVIUM OR TO A MAXIMUM DEPTH OF 3 FEET BENEATH THE FOOTINGS. COMPACT SUBGRADE TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY AND WHEN REQUIRED, BACKFILL IN ACCORDANCE WITH NOTE 6
- COMPACT SUBGRADE TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY. BACKFILL BELOW FOOTINGS WITH STRUCTURAL FILL (WSDOT GRAVEL BORROW 9-03.14(1) UP TO THE DESIGN FOOTING ELEVATION. BACKFILL SHALL EXTEND AT LEAST 1 FOOT BEYOND THE EDGE OF FOOTING. COMPACT BACKFILL TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY
- 12" MIN. STRUCTURAL FILL BENEATH STRUCTURES AND FOOTINGS UNLESS INDICATED OTHERWISE

LEGEND

- NATIVE SOIL
- STRUCTURAL FILL
- CRUSHED ROCK - UNDER ROUND PONDS
- CRUSHED ROCK - UNDER BUILDING SLAB
- CONTROLLED DENSITY FILL

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KEYED NOTES #

- 90° ELBOW (REFERENCE ADJACENT CONNECTING PIPE FOR SIZE)
- 45° ELBOW (REFERENCE ADJACENT CONNECTING PIPE FOR SIZE)
- 22.5° ELBOW (REFERENCE ADJACENT CONNECTING PIPE FOR SIZE)
- 11.25° ELBOW (REFERENCE ADJACENT CONNECTING PIPE FOR SIZE)
- TEE (REFERENCE ADJACENT CONNECTING PIPE FOR SIZE)
- WYE (REFERENCE ADJACENT CONNECTING PIPE FOR SIZE)
- 24"x10" TEE
- 6"x4" TEE
- 24"x12" TEE
- 24" BLIND FLANGE
- POTHOLE TO VERIFY DEPTH PRIOR TO CONSTRUCTION OF 24" SWS
- CONNECTION TO STRUCTURE

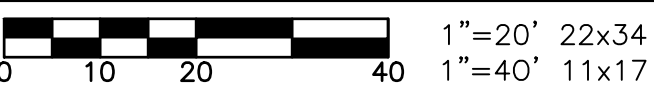
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103	791804.92	403272.70	FT
104	791855.98	403214.17	FT
105	791864.76	403209.88	FT
106	791926.47	403206.31	FT
107	792022.40	403240.06	FT
120	791814.78	403384.62	FCW
121	791798.79	403378.86	FCW
122	791746.59	403383.93	FCW
123	791707.87	403402.01	FCW
124	791703.13	403416.42	FCW
130	791590.27	403765.02	SWS
131	791576.54	403776.21	SWS
132	791549.11	403742.58	SWS
133	791521.19	403708.35	SWS
134	791491.48	403671.93	SWS
135	791481.51	403659.71	SWS
136	791472.68	403648.88	SWS
137	791476.55	403645.72	SWS
138	791522.36	403608.26	SWS
150	791591.97	403759.98	RWS
151	791578.63	403770.86	RWS
152	791567.99	403757.82	RWS
153	791539.91	403723.40	RWS
154	791519.05	403697.83	RWS
155	791483.54	403654.29	RWS
160	791526.93	403622.58	BD
161	791476.90	403561.25	BD
162	791452.30	403558.75	BD
163	791450.40	403556.42	BD

POINT DATA

POINT #	EASTING	NORTHING	DESC
164	791445.34	403550.23	BD
170	791529.54	403620.44	CWE
171	791515.39	403602.90	CWE
172	791527.84	403592.50	CWE
173	791562.75	403553.43	CWE
174	791692.97	403407.68	CWE
175	791746.20	403382.04	CWE
176	791781.32	403378.41	CWE
177	791814.57	403390.47	CWE
178	791453.99	403550.27	CWE
179	791454.46	403550.85	CWE
180	791459.74	403551.39	CWE
181	791472.33	403541.12	CWE
192	791464.32	403534.75	D
193	791469.38	403540.94	D
194	791471.71	403539.04	D
195	791566.50	403552.41	D
200	791531.97	403618.47	OFD
201	791520.22	403604.07	OFD
202	791520.52	403601.05	OFD
203	791528.72	403594.39	OFD
204	791644.85	403465.36	OFD
205	791671.78	403383.66	OFD
206	791685.14	403376.92	OFD
210	791479.83	403983.07	SWS
211	791457.67	403956.49	SWS
212	791546.67	403883.64	SWS
213	791567.54	403844.90	SWS
214	791596.76	403821.29	SWS
215	791599.43	403793.79	SWS
216	791606.44	403788.07	SWS

PIPING PLAN - REARING POND



WASHINGTON DEPARTMENT OF
FISH & WILDLIFE



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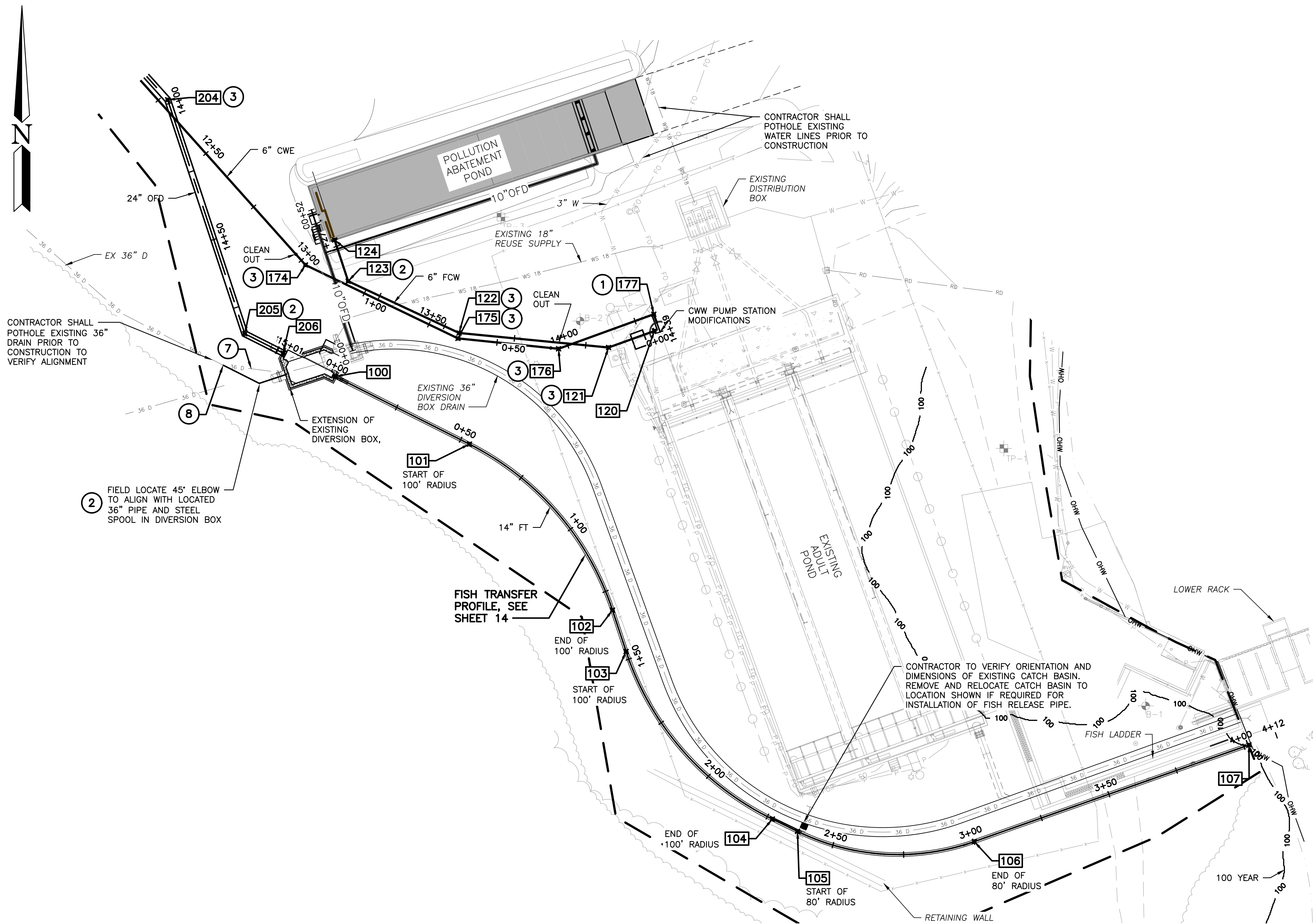
DATE	REVISION	DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER	DATE		
PROGRAM	DATE		

DESIGNED BY E. NORDHOLM
CHECKED BY D.NICE
DRAWN BY NW, KH
DATE 5-15-2025

SOL DUC HATCHERY
MODIFICATIONS - PERMIT
ENLARGED PIPING PLAN - REARING

PROJECT NO.
CM:H32:2023-1
SHEET 12 OF 15

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KEYED NOTES #

- 90° ELBOW (REFERENCE ADJACENT CONNECTING PIPE FOR SIZE)
- 45° ELBOW (REFERENCE ADJACENT CONNECTING PIPE FOR SIZE)
- 22.5° ELBOW (REFERENCE ADJACENT CONNECTING PIPE FOR SIZE)
- TEE (REFERENCE ADJACENT CONNECTING PIPE FOR SIZE)
- WYE (REFERENCE ADJACENT CONNECTING PIPE FOR SIZE)
- 45° ELBOW (46.7° DEFLECTION)
- CONTRACTOR TO EXPOSE AND REMOVE EXISTING LENGTH OF PIPE AS NECESSARY TO ACCOMMODATE CONNECTION TO EXISTING SYSTEM AND INSTALLATION OF NEW PIPE TO DIVERSION BOX.
- CONNECTION TO EX. 36" PIPE WITH ELECTROFUSION COUPLER. PROPERLY SIZED FOR EXISTING PIPE DIAMETER AND THICKNESS. INSTALLATION OF COUPLER SHALL BE MADE BY FACTORY TRAINED PERSONNEL QUALIFIED IN PERFORMING THE ELECTROFUSION PROCESS.

POINT DATA			
POINT #	EASTING	NORTHING	DESC
100	791703.38	403368.73	FT
101	791750.21	403345.11	FT
102	791800.15	403287.14	FT
103	791804.92	403272.70	FT
104	791855.98	403214.17	FT
105	791864.76	403209.88	FT
106	791926.47	403206.31	FT
107	792022.40	403240.06	FT
120	791814.78	403384.62	FCW
121	791798.79	403378.86	FCW
122	791746.59	403383.93	FCW
123	791707.87	403402.01	FCW
124	791703.13	403416.42	FCW
130	791590.27	403765.02	SWS
131	791576.54	403776.21	SWS
132	791549.11	403742.58	SWS
133	791521.19	403708.35	SWS
134	791491.48	403671.93	SWS
135	791481.51	403659.71	SWS
136	791472.68	403648.88	SWS
137	791476.55	403645.72	SWS
138	791522.36	403608.26	SWS
150	791591.97	403759.98	RWS
151	791578.63	403770.86	RWS
152	791567.99	403757.82	RWS
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174	791692.97	403407.68	CWE
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201	791520.22	403604.07	OFD
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212	791546.67	403883.64	SWS
213	791567.54	403844.90	SWS
214	791596.76	403821.29	SWS
215	791599.43	403793.79	SWS
216	791606.44	403788.07	SWS

ENLARGED PIPING PLAN – PA POND





TETRA TECH
www.tetratech.com
2003 Western Avenue, Suite 700
Seattle, WA 98121
Tel 206.883.9300
Fax 206.883.9301

WASHINGTON DEPARTMENT OF
FISH & WILDLIFE



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DATE: _____ REVISION: _____ DESCRIPTION: _____ BY: _____

CHIEF ENGINEER: _____ DATE: _____

PROGRAM: _____

DESIGNED BY: E. NORDHOLM

CHECKED BY: D. NICE

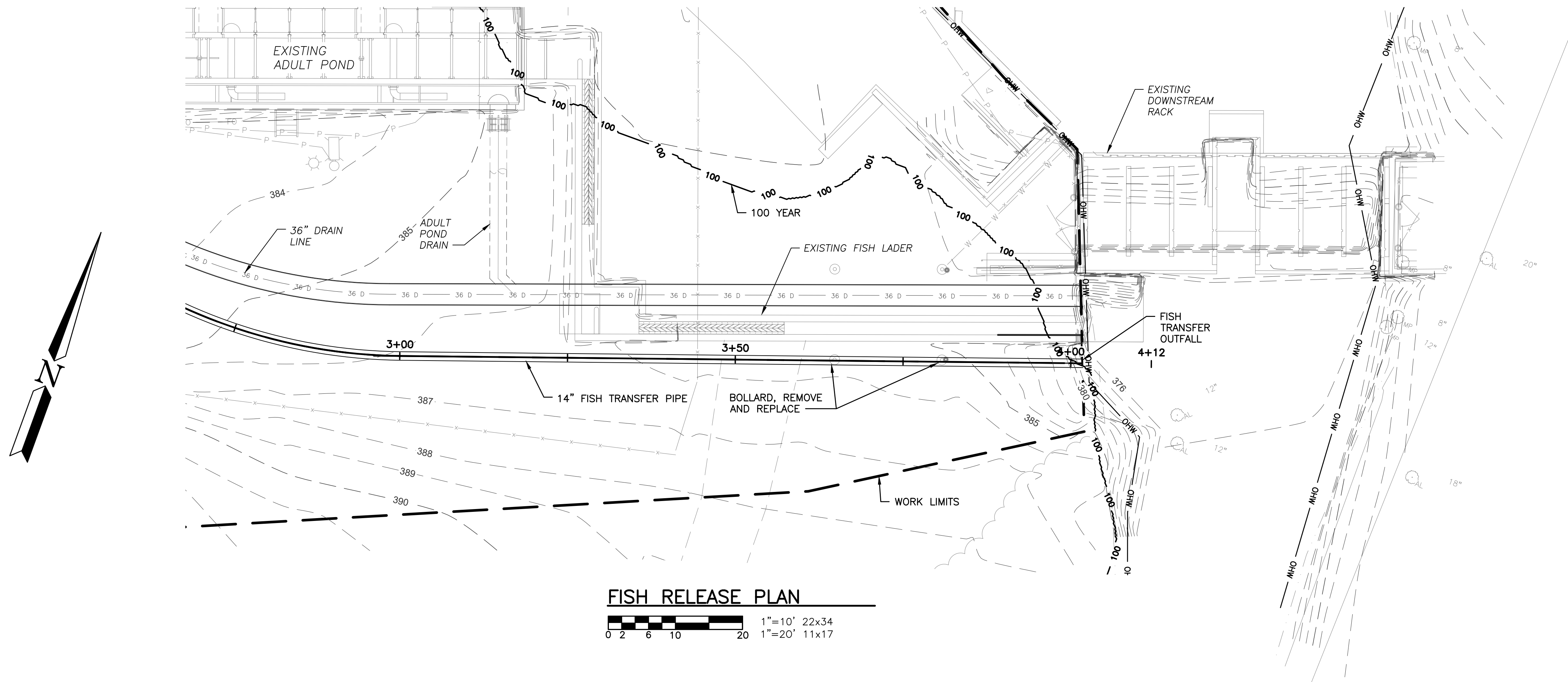
DRAWN BY: NW, KH

DATE: 5-15-2025

SOL DUC HATCHERY
MODIFICATIONS – PERMIT
ENLARGED PIPING PLAN – PA POND

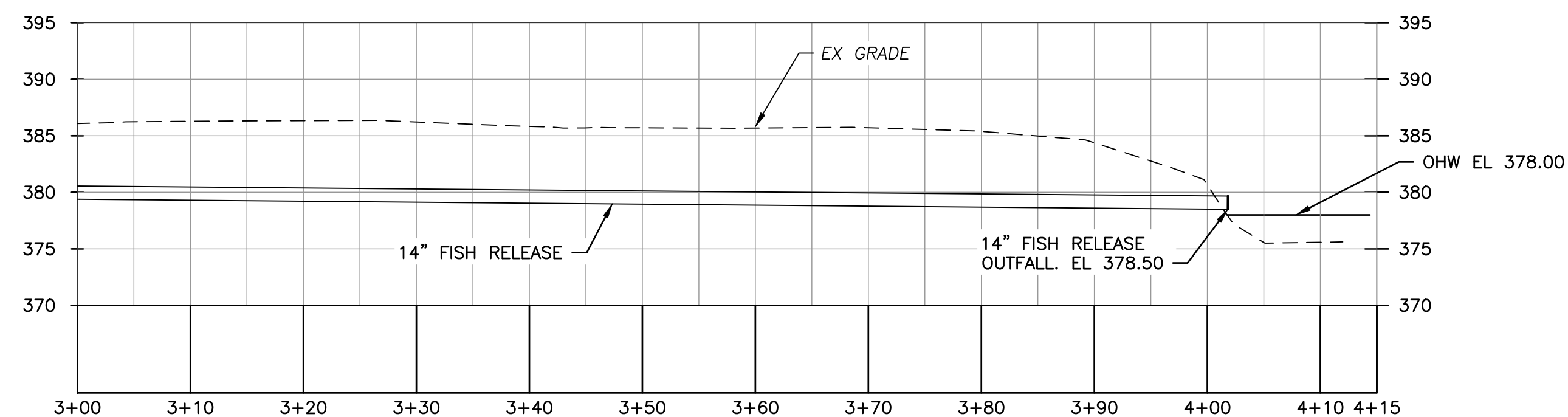
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CM:H32:2023-1
SHEET 13 OF 15

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FISH RELEASE PLAN

0 2 6 10 20 1"=10' 22x34
1"=20' 11x17



FISH RELEASE SECTION

0 2 6 10 20 1"=10' 22x34
1"=20' 11x17

Tt
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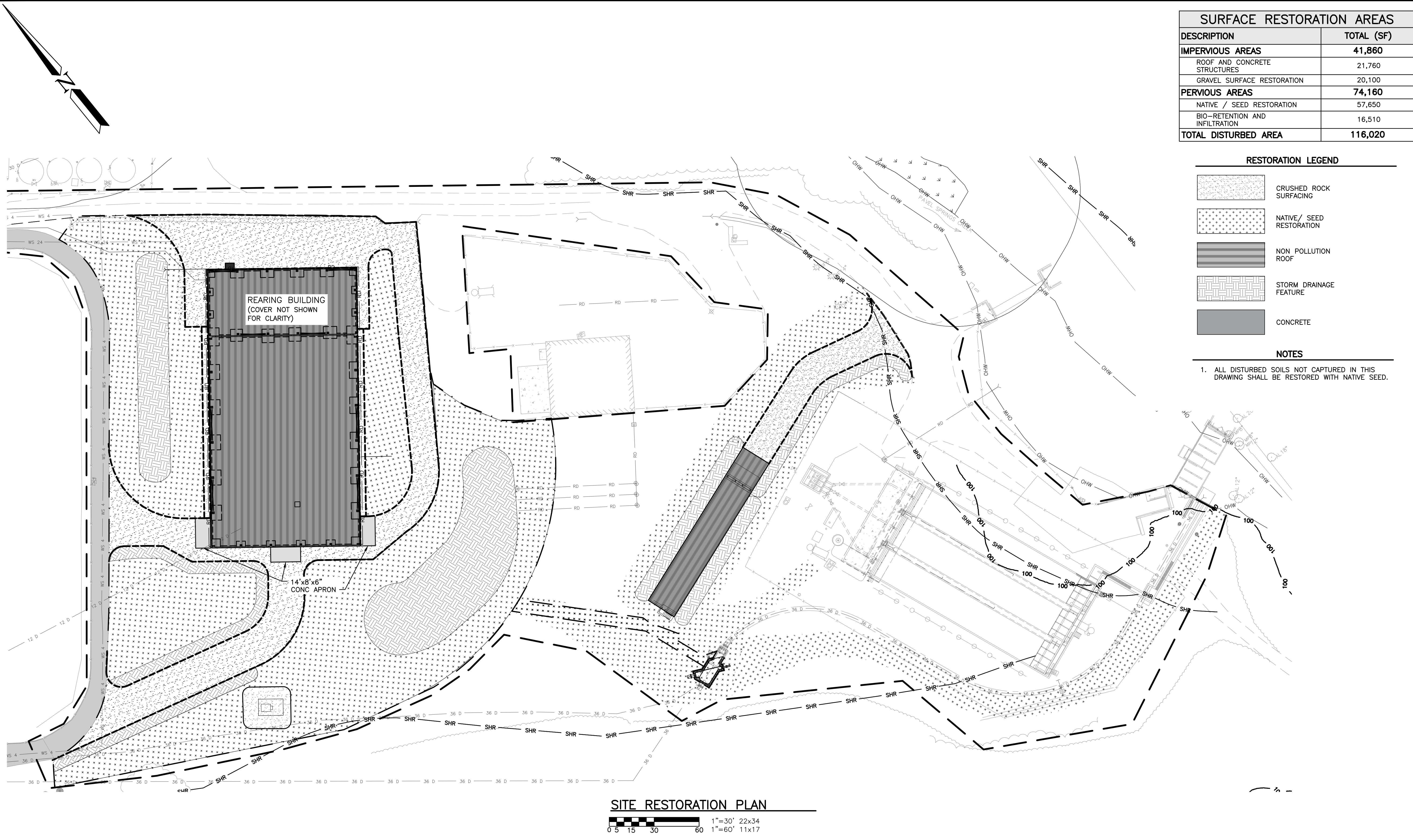
NOT APPROVED FOR CONSTRUCTION			BY
DATE	REVISION	DESCRIPTION	
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PROGRAM	DATE		
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			CHECKED BY D. NICE
			DRAWN BY N. WHITE
			DATE 5-15-2025

SOL DUC HATCHERY
MODIFICATIONS — PERMIT
FISH RELEASE PLAN & SECTION

PROJECT NO.
CM:H32:2023-1

SHEET OF
14 OF 15

5/19/2025 1:55:09 PM - C:\AD\ACD0005\TETRA TECH INC\200-15891-22003 SOL DUC SRKW\PROJECT FILES\CAD\SHEETFILES\PERMIT\PCI SITE RESTORATION PLAN.DWG - WHITE, NATHAN



SURFACE RESTORATION AREAS	
DESCRIPTION	TOTAL (SF)
IMPERVIOUS AREAS	41,860
ROOF AND CONCRETE STRUCTURES	21,760
GRAVEL SURFACE RESTORATION	20,100
PERVIOUS AREAS	74,160
NATIVE / SEED RESTORATION	57,650
BIO-RETENTION AND INFILTRATION	16,510
TOTAL DISTURBED AREA	116,020

RESTORATION LEGEND

- CRUSHED ROCK SURFACING
- NATIVE/ SEED RESTORATION
- NON POLLUTION ROOF
- STORM DRAINAGE FEATURE
- CONCRETE

NOTES

1. ALL DISTURBED SOILS NOT CAPTURED IN THIS DRAWING SHALL BE RESTORED WITH NATIVE SEED.

SITE RESTORATION PLAN

TETRA TECH
www.tetratech.com
2003 Western Avenue, Suite 700
Seattle, WA 98121
Tel 206.883.9300
Fax 206.883.9301

WASHINGTON DEPARTMENT OF
FISH & WILDLIFE



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DRAWN BY NW, BT			
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SOL DUC HATCHERY		PROJECT NO.	
MODIFICATIONS - PERMIT		CM:H32:2023-1	
SITE RESTORATION PLAN		SHEET	OF
		15	15