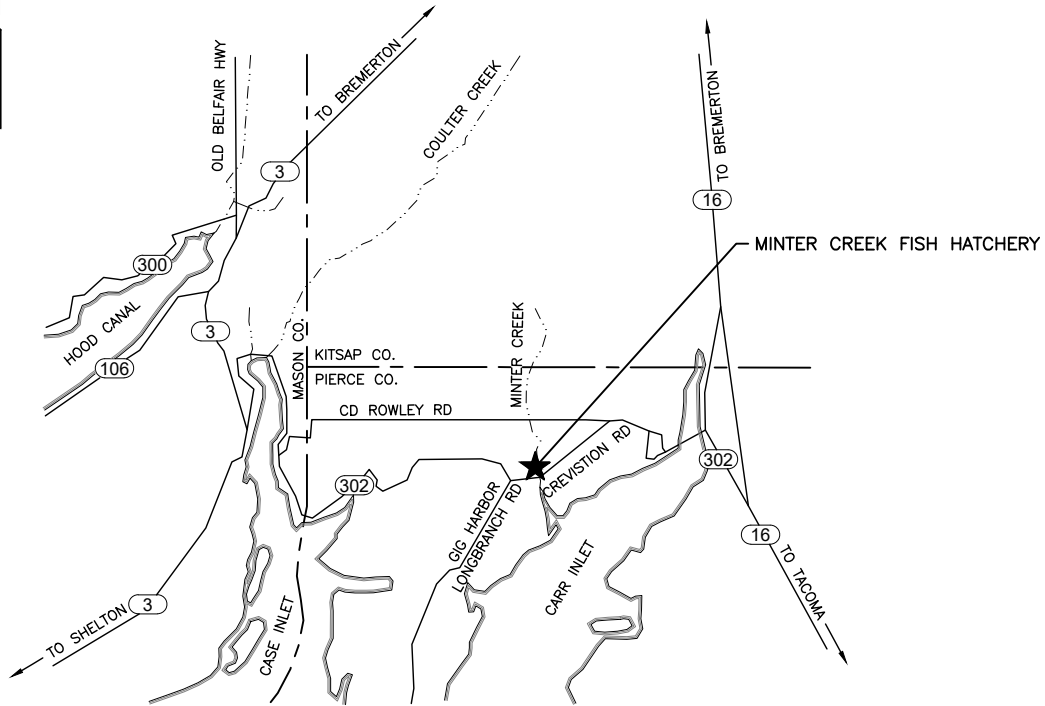




PROJECT LOCATION

STATE MAP

NOT TO SCALE



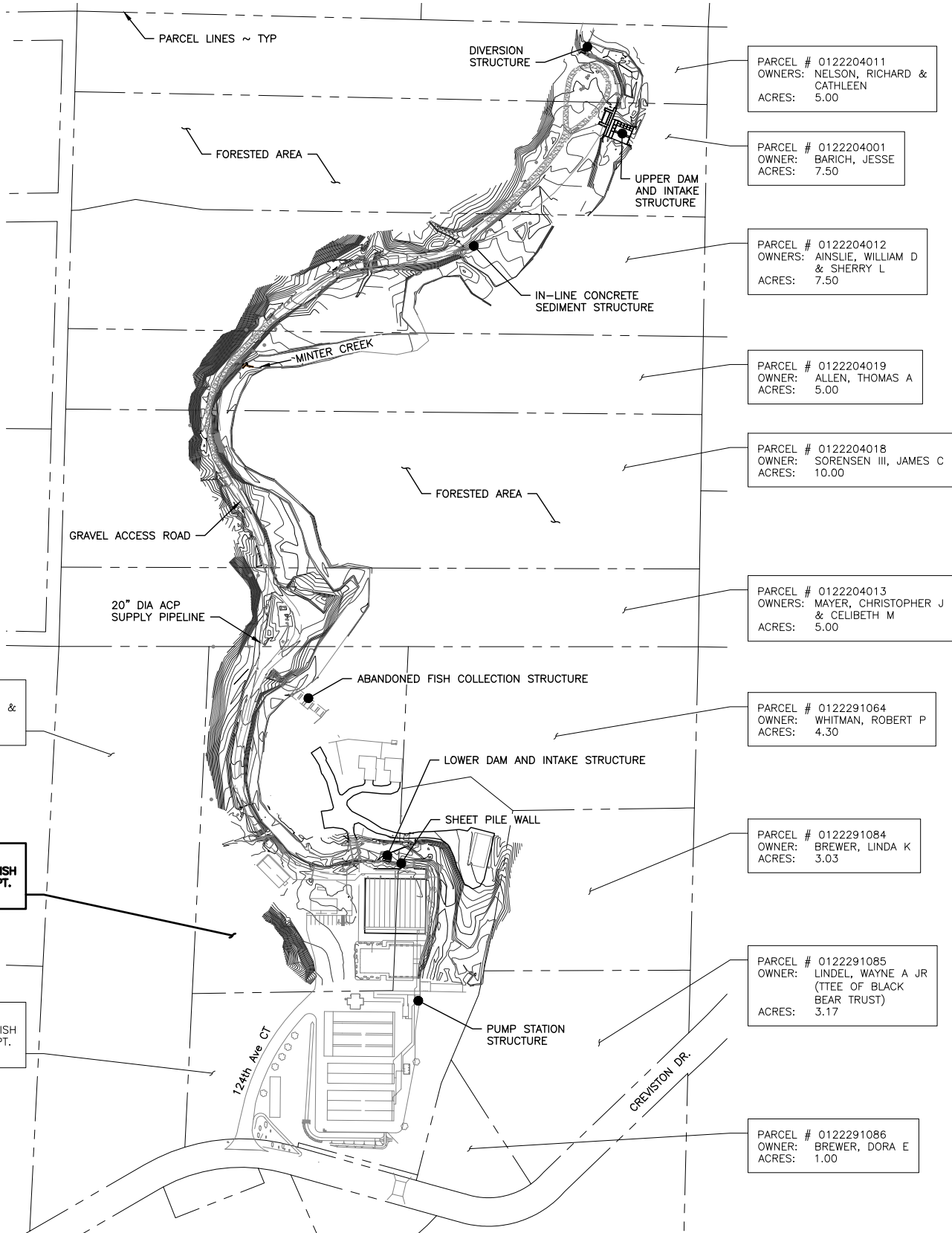
VICINITY MAP

NOT TO SCALE

DIRECTIONS
 FROM OLYMPIA, TAKE I-5 NORTH TO EXIT 132 TO HWY 16. TAKE THE PURDY AND SHELTON EXIT OFF OF HWY 16 TO HWY 302, STAY ON HWY 302, TURN LEFT ONTO 118TH AVE. AT STOP SIGN TURN RIGHT, THE HATCHERY WILL BE ON THE RIGHT.

ENG. PROJECT NO. PE:H13:19-1 PORTION OF: S29,T22N,R1E DRAWN BY: NW / RS

REFERENCE NUMBER: NWS-2019-990 APPLICANT: WASHINGTON DEPT. of FISH & WILDLIFE 600 CAPITOL WAY N. OLYMPIA, WA 98501-1091 ADJACENT PROPERTY OWNER: 1. MAYER 2. NELSON, 4 OTHERS	PROJECT LOCATION (ADDRESS): MINTER CREEK HATCHERY 12710 124TH AVE CT NW GIG HARBOR, WA 98329 LAT/LONG: 47.37' / -122.70' DATUM: NAVD 88 SHEET 1 OF 20 DATE: 08/14/2023	PROPOSED PROJECT: MINTER CREEK HATCHERY SURFACE WATER INTAKE REPLACEMENT IN: HENDERSON BAY NEAR/AT: GIG HARBOR COUNTY: PIERCE STATE: WA
--	---	---



PARCEL # 0122291028
OWNERS: KELLY, BRIAN & KATRINA
ACRES: 7.73

PARCEL # 0122291007
OWNER: STATE OF WA FISH & WILDLIFE DEPT.
ACRES: 6.92

PARCEL #: 0122291013
OWNER: STATE OF WA FISH & WILDLIFE DEPT.
ACRES: 6.20

PARCEL # 0122204011
OWNERS: NELSON, RICHARD & CATHLEEN
ACRES: 5.00

PARCEL # 0122204001
OWNER: BARICH, JESSE
ACRES: 7.50

PARCEL # 0122204012
OWNERS: AINSLIE, WILLIAM D & SHERRY L
ACRES: 7.50

PARCEL # 0122204019
OWNER: ALLEN, THOMAS A
ACRES: 5.00

PARCEL # 0122204018
OWNER: SORENSEN III, JAMES C
ACRES: 10.00

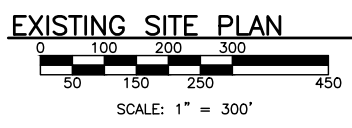
PARCEL # 0122204013
OWNERS: MAYER, CHRISTOPHER J & CELIBETH M
ACRES: 5.00

PARCEL # 0122291064
OWNER: WHITMAN, ROBERT P
ACRES: 4.30

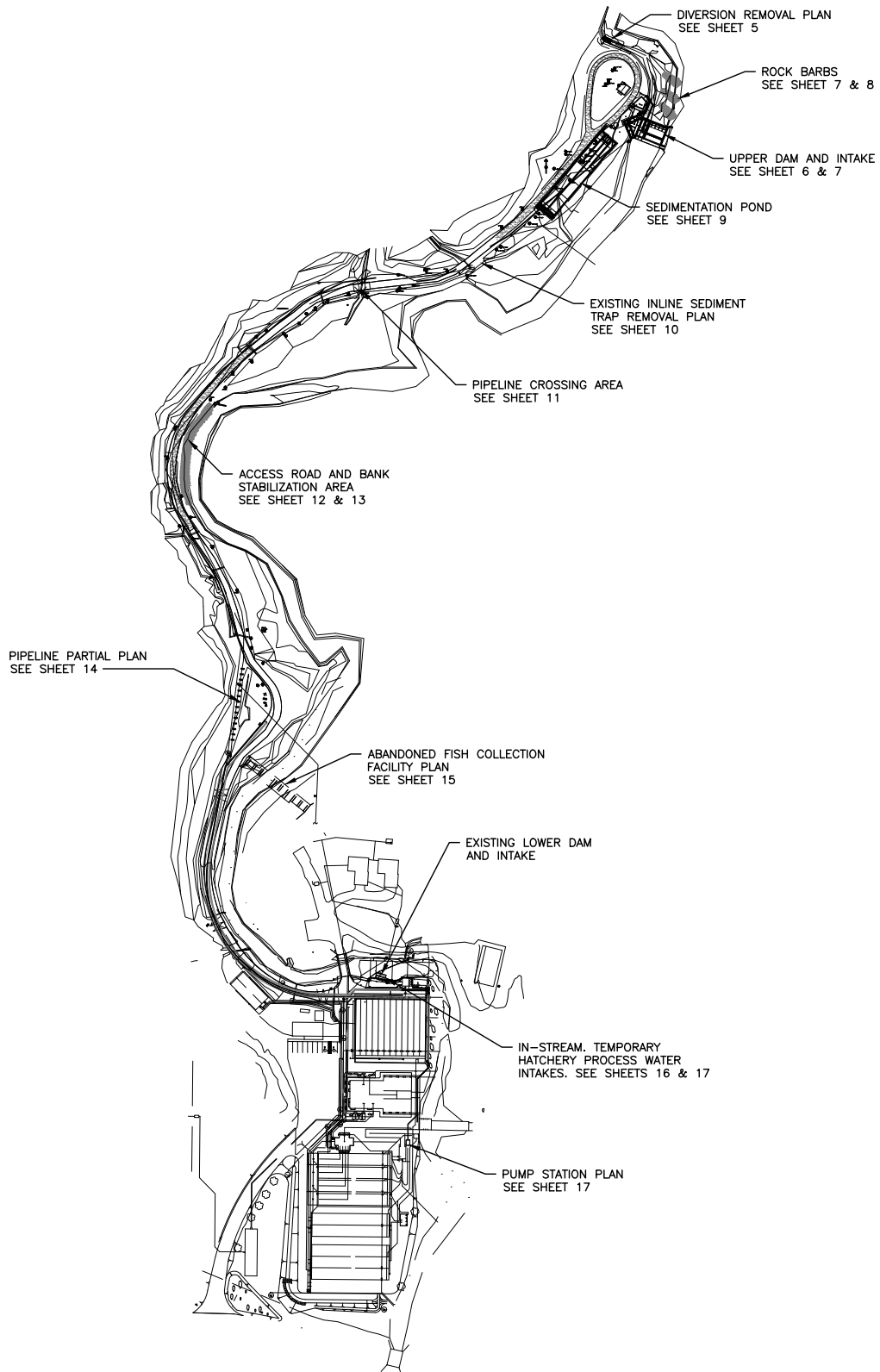
PARCEL # 0122291084
OWNER: BREWER, LINDA K
ACRES: 3.03

PARCEL # 0122291085
OWNER: LINDEL, WAYNE A JR (TEE OF BLACK BEAR TRUST)
ACRES: 3.17

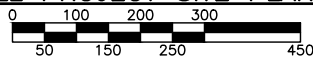
PARCEL # 0122291086
OWNER: BREWER, DORA E
ACRES: 1.00



REFERENCE NUMBER: **NWS-2019-990**
APPLICANT NAME:
WASHINGTON DEPT. of FISH & WILDLIFE
PROPOSED PROJECT:
SURFACE WATER INTAKE REPLACEMENT
LOCATION: **MINTER CREEK HATCHERY**
SHEET **2** OF **20** DATE: **08/14/2023**



OVERALL PROJECT SITE PLAN



SCALE: 1" = 300'

REFERENCE NUMBER: **NWS-2019-990**

APPLICANT NAME:

WASHINGTON DEPT. of FISH & WILDLIFE

PROPOSED PROJECT:

SURFACE WATER INTAKE REPLACEMENT

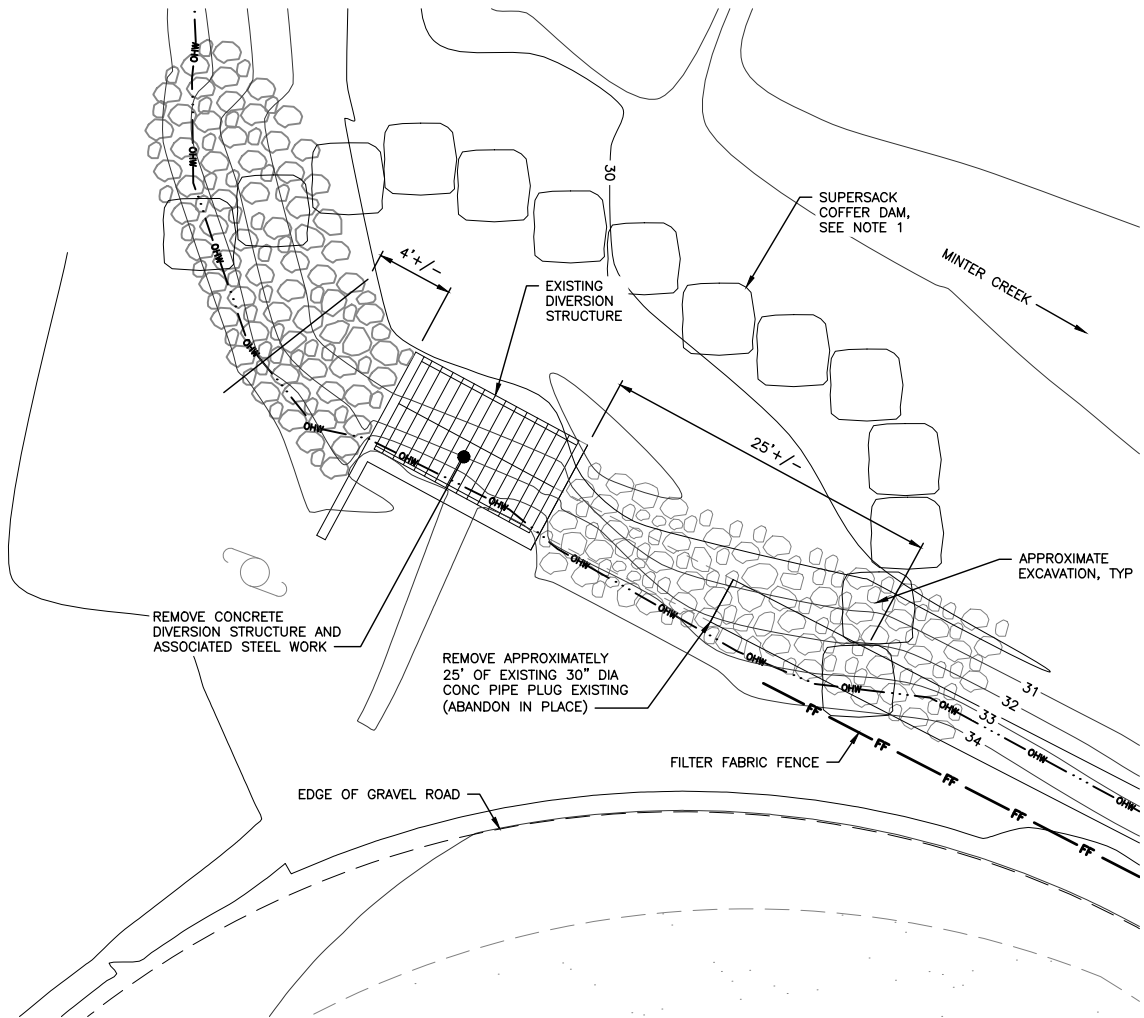
LOCATION: **MINTER CREEK HATCHERY**

SHEET **3** OF 20 DATE: 08/14/2023

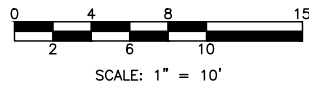


NOTES:

1. COFFERDAM FOR DIVERSION STRUCTURE REMOVAL AND INSTALL OF MATERIAL.
2. ORDINARY HIGH WATER (OHW), BASED ON 2YR HIGH WATER.



EXISTING DIVERSION STRUCTURE PLAN

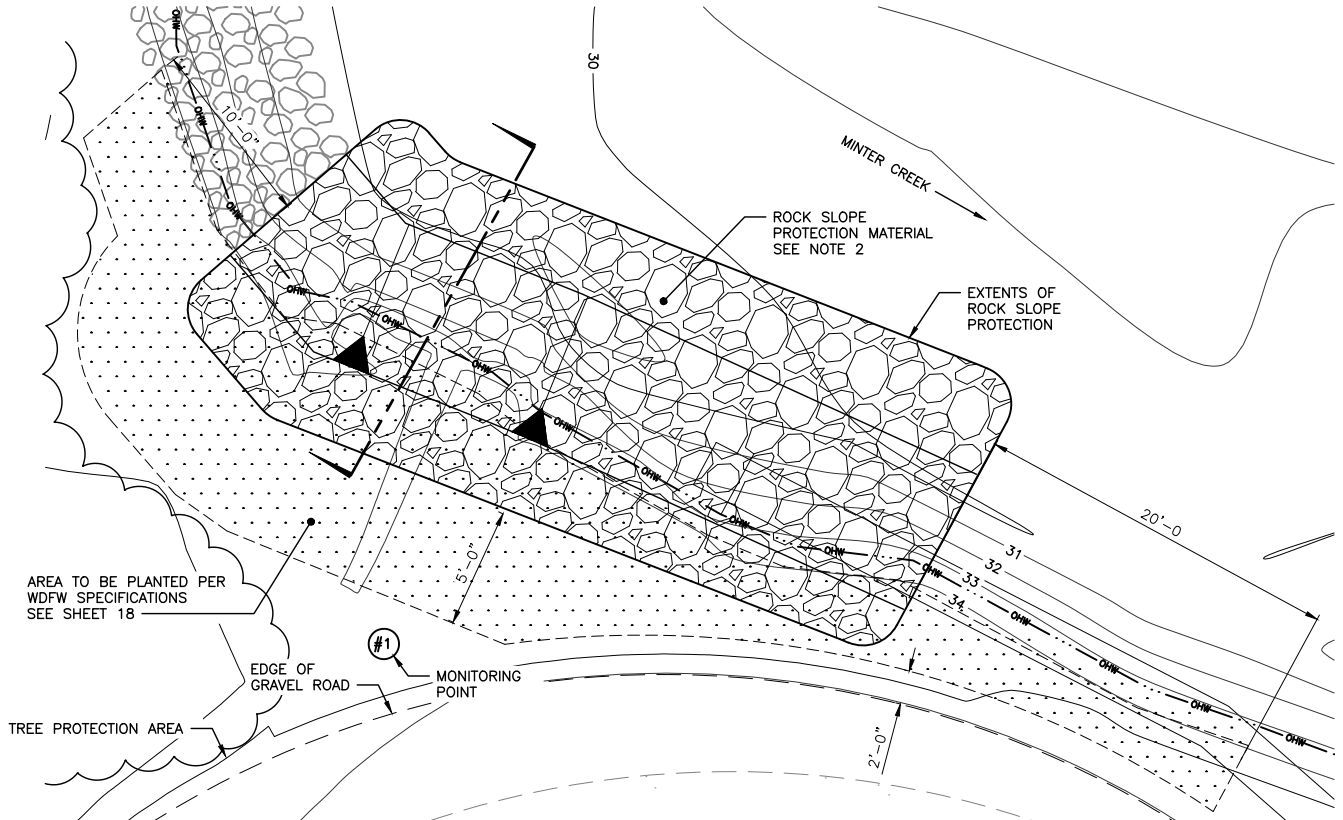


REFERENCE NUMBER: **NWS-2019-990**
APPLICANT NAME:
WASHINGTON DEPT. of FISH & WILDLIFE
PROPOSED PROJECT:
SURFACE WATER INTAKE REPLACEMENT
LOCATION: MINTER CREEK HATCHERY
SHEET 4 OF 20 DATE: 08/14/2023



NOTES:

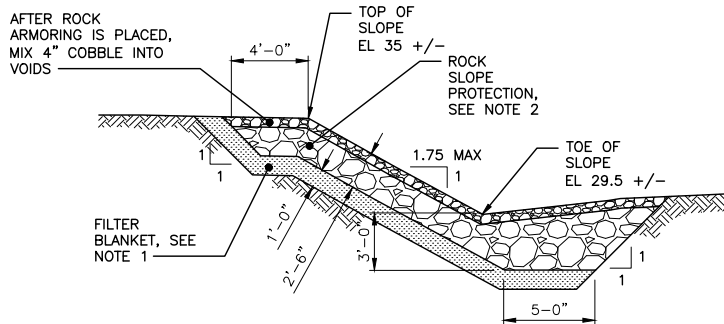
1. FILTER BLANKET PER WSDOT SPECIFICATION 9-03.9(2) PERMEABLE BALLAST.
2. ROCK SLOPE PROTECTION PER WSDOT SPECIFICATION 9-13.4 CLASS B ROCK FOR EROSION AND SCOUR PROTECTION. MIX STREAM BED 4" COBBLES PER WSDOT SPECIFICATION 9-03.11(2) INTO NEW ROCK SLOPE PROTECTION ARMORING FILLING INTERSTITIAL VOIDS. ASSUME 10 PERCENT ROCK SLOPE PROTECTION IS 4" COBBLES.
3. TOTAL AREA OF PLANTING IS APPROXIMATELY 548 SF.
4. PLANTING AREA TO EXTEND DOWN TO OHW. DO NOT COVER ROCK ARMORING WITH EROSION CONTROL BLANKET, ONLY WHERE RIVER BANK SOILS ARE EXPOSED.
5. PLANTING TO COMPLY WITH WDFW PLANTING SPECIFICATIONS.



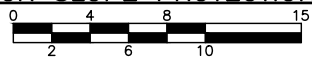
DIVERSION REMOVAL PLAN



SCALE: 1" = 10'



TYPICAL ROCK SLOPE PROTECTION SECTION



SCALE: 1" = 10'

REFERENCE NUMBER: **NWS-2019-990**

APPLICANT NAME:

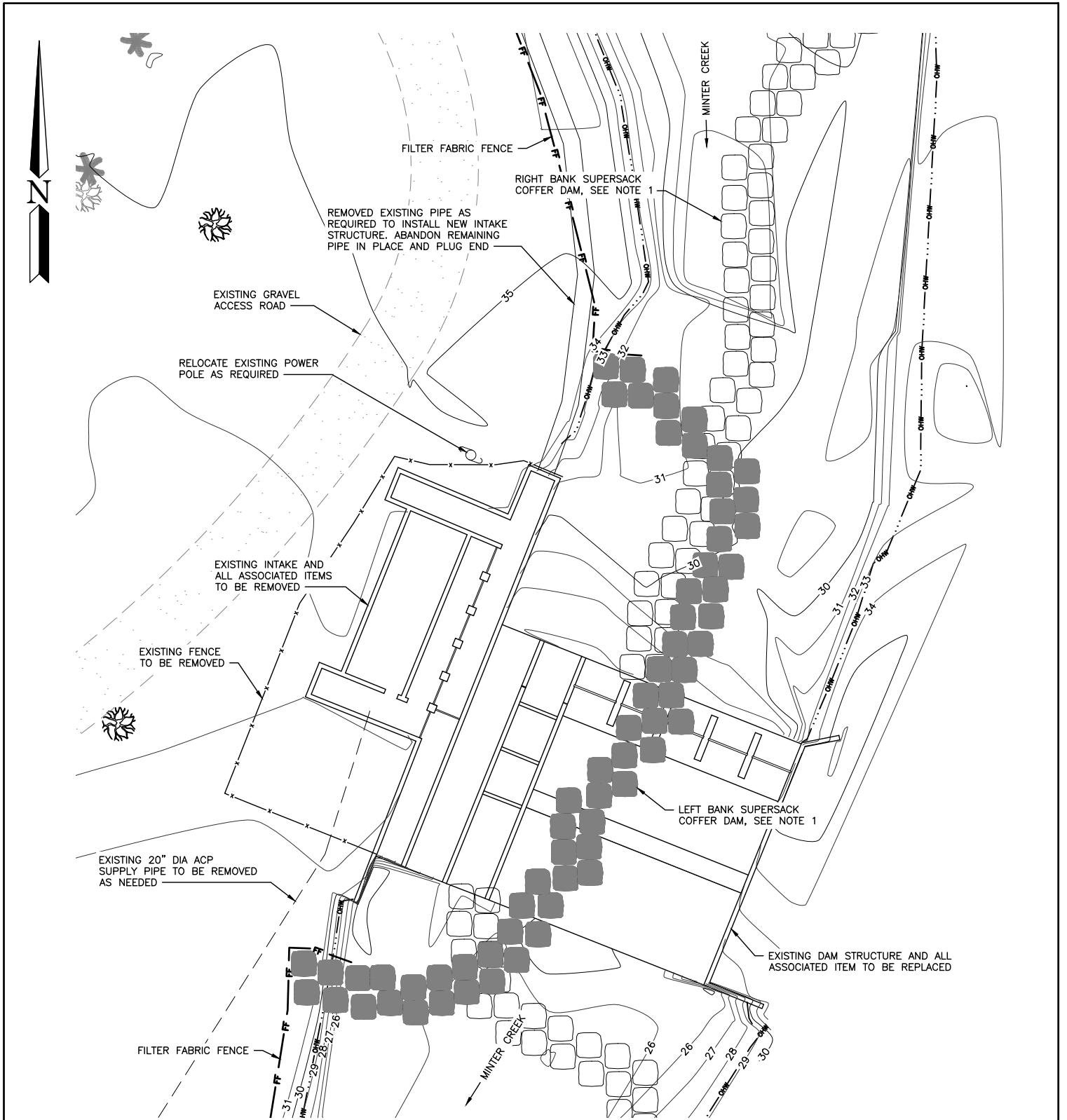
WASHINGTON DEPT. of FISH & WILDLIFE

PROPOSED PROJECT:

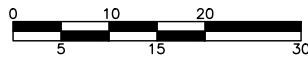
SURFACE WATER INTAKE REPLACEMENT

LOCATION: MINTER CREEK HATCHERY

SHEET 5 OF 20 DATE: 08/14/2023

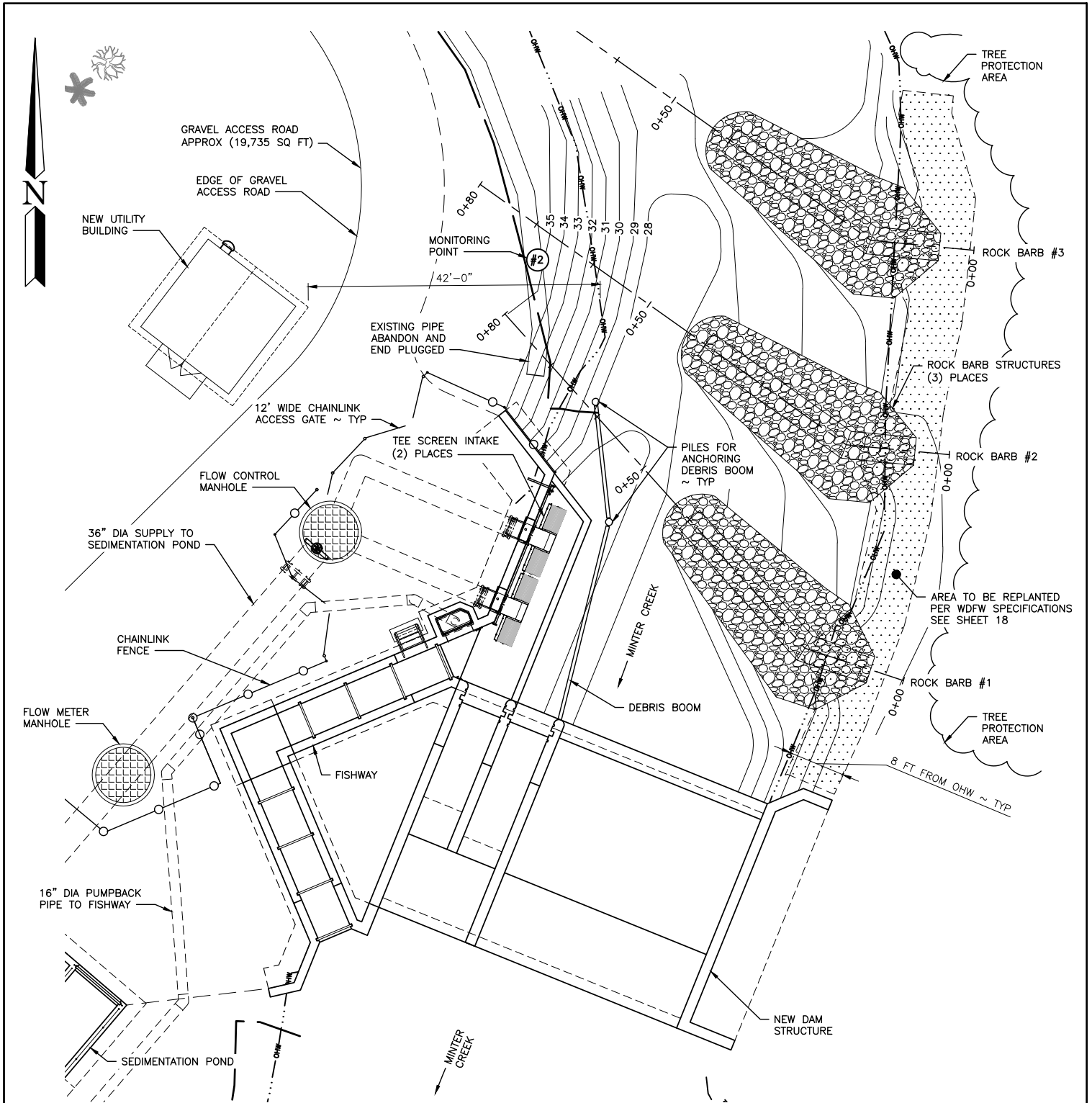


EXISTING UPPER DAM AND INTAKE REMOVAL PLAN

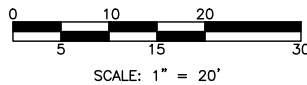


- NOTES:**
1. CONTRACTOR TO PHASE COFFERDAMS FOR DEMOLITION AND INSTALLATION OF DAM, INTAKE AND ROCK BARBS.
 2. ORDINARY HIGH WATER (OHW), BASED ON 2YR HIGH WATER.

REFERENCE NUMBER: **NWS-2019-990**
 APPLICANT NAME:
WASHINGTON DEPT. of FISH & WILDLIFE
 PROPOSED PROJECT:
SURFACE WATER INTAKE REPLACEMENT
 LOCATION: **MINTER CREEK HATCHERY**
 SHEET **6** OF **20** DATE: **08/14/2023**



UPPER DAM AND INTAKE REPLACEMENT PLAN



NOTES:

1. ORDINARY HIGH WATER (OHW), BASED ON 2YR HIGH WATER.
2. TOTAL AREA OF PLANTING IS 833 SF.
3. PLANTING AREA TO EXTEND DOWN TO OHW. DO NOT COVER ROCK ARMORING WITH EROSION CONTROL BLANKET, ONLY WHERE RIVER BANK SOILS ARE EXPOSED.
4. PLANTING TO COMPLY WITH WDFW PLANTING SPECIFICATIONS.

REFERENCE NUMBER: **NWS-2019-990**

APPLICANT NAME:

WASHINGTON DEPT. OF FISH & WILDLIFE

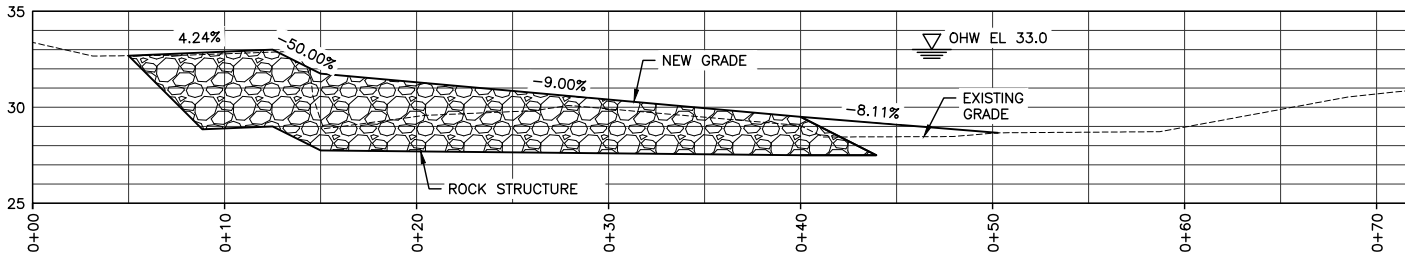
PROPOSED PROJECT:

SURFACE WATER INTAKE REPLACEMENT

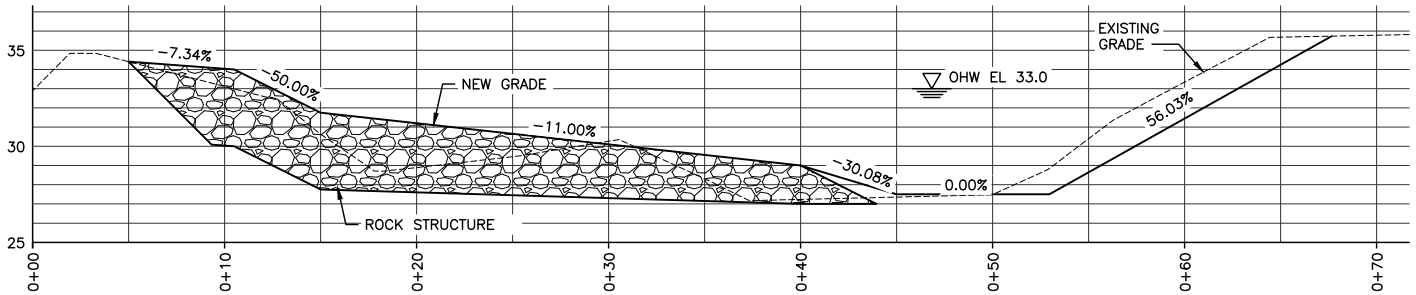
LOCATION: MINTER CREEK HATCHERY

SHEET 7 OF 20

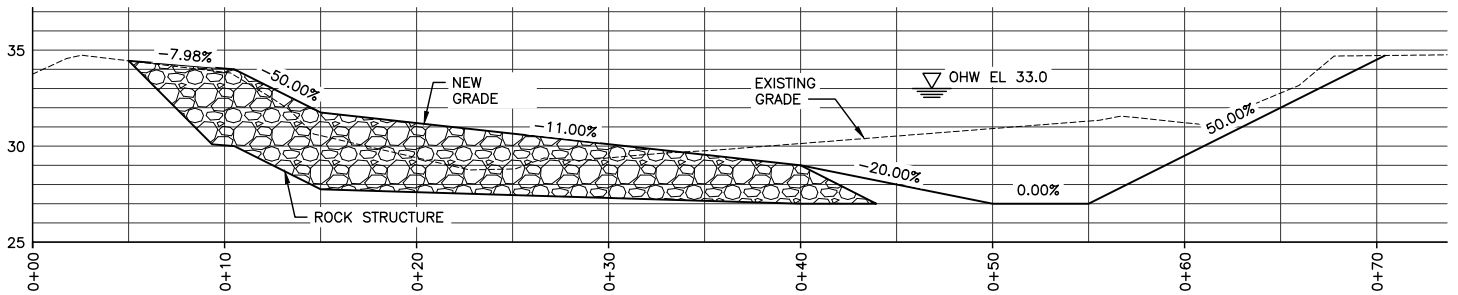
DATE: 08/14/2023



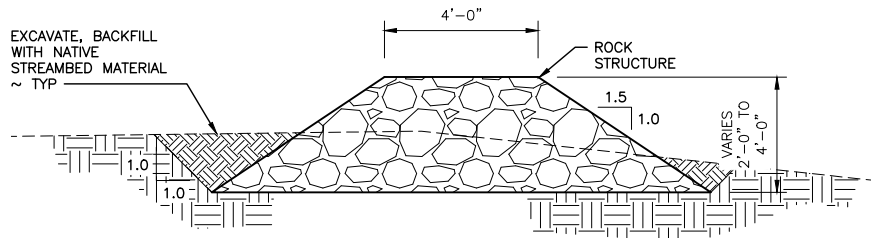
ROCK BARB #3 - PROFILE
SCALE 1" = 10'



ROCK BARB #2 - PROFILE
SCALE 1" = 10'



ROCK BARB #1 - PROFILE
SCALE 1" = 10'



ROCK BARB STRUCTURES - TYPICAL SECTION
NOT TO SCALE

NOTES:

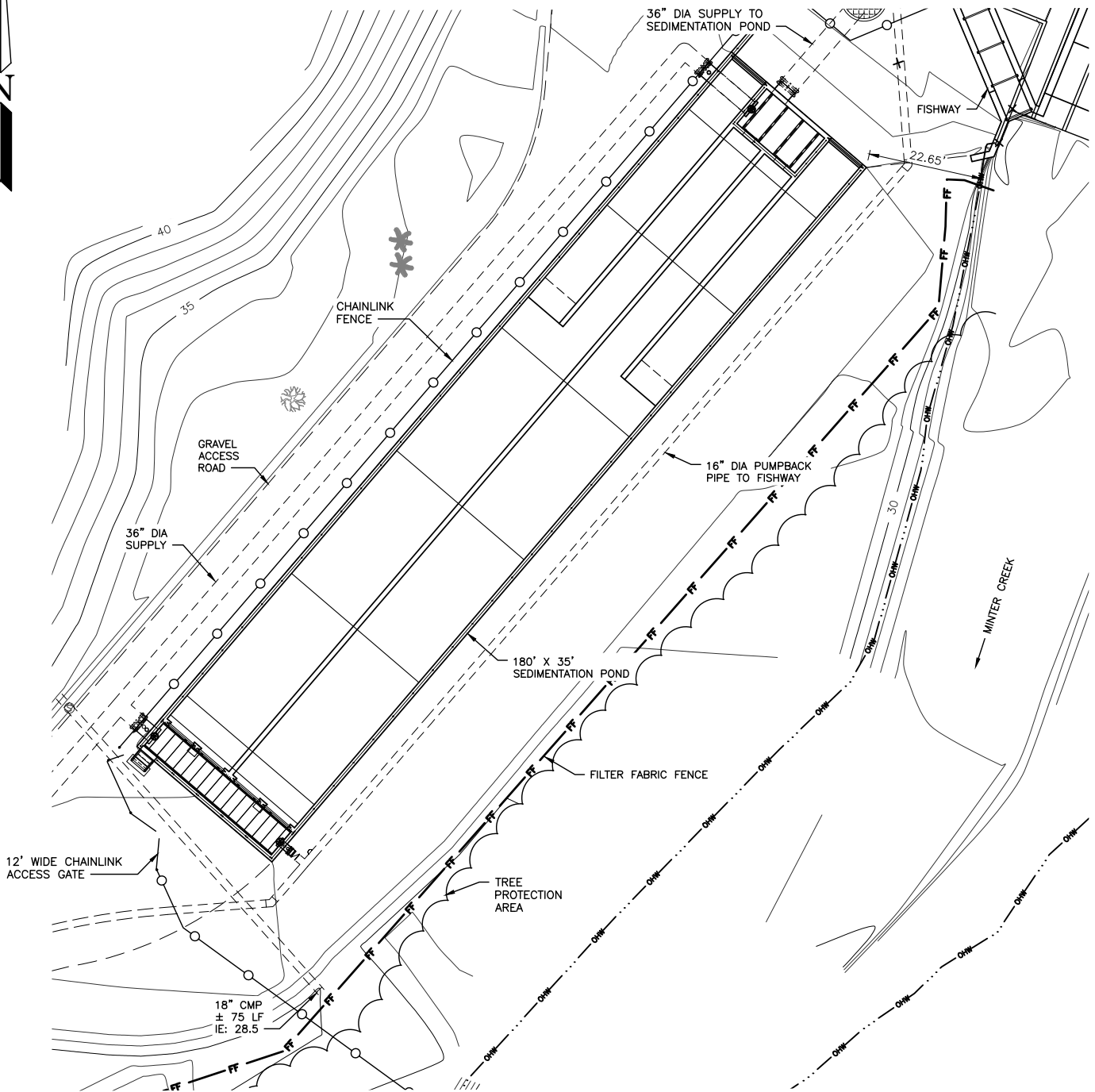
- ALL MATERIAL USED FOR BARB ROCK SHALL MEET WSDOT STANDARD SPECIFICATION 9-03.11 STREAMBED AGGREGATES
- BARB ROCK SHALL CONSIST OF A MIXTURE OF STREAMBED AGGREGATE PER THE FOLLOWING PROPORTIONING:
 30% BY VOLUME STREAMBED SEDIMENT PER WSDOT STANDARD SPEC 9-03.11(1)
 35% BY VOLUME 12" COBBLES PER WSDOT STANDARD SPEC 9-03.11(2)
 35% BY VOLUME ONE MAN BOULDERS PER WSDOT STANDARD SPEC 9-03.11(3)

 THE ABOVE MIXTURE SHALL PRODUCE THE FOLLOWING FINAL GRADATION:

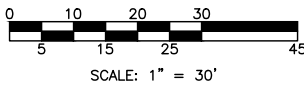
% PASSING	MEDIAL DIAMETER
100	18"
84	15"
50	6"
30	2"
- SCREENED, ON SITE, NATIVE COBBLES, BOULDERS, OR STREAMBED SEDIMENT MEETING GRADATION REQUIREMENTS MAY BE USED AS PART OF THE MIXTURE UPON ENGINEER APPROVAL.
- ORDINARY HIGH WATER (OHW), BASED ON 2YR HIGH WATER.

REFERENCE NUMBER: **NWS-2019-990**
 APPLICANT NAME:
WASHINGTON DEPT. of FISH & WILDLIFE
 PROPOSED PROJECT:
SURFACE WATER INTAKE REPLACEMENT
 LOCATION: **MINTER CREEK HATCHERY**
 SHEET **8** OF **20** DATE: **08/14/2023**

NOTE:
 ORDINARY HIGH WATER (OHW), BASED ON 2YR HIGH WATER.



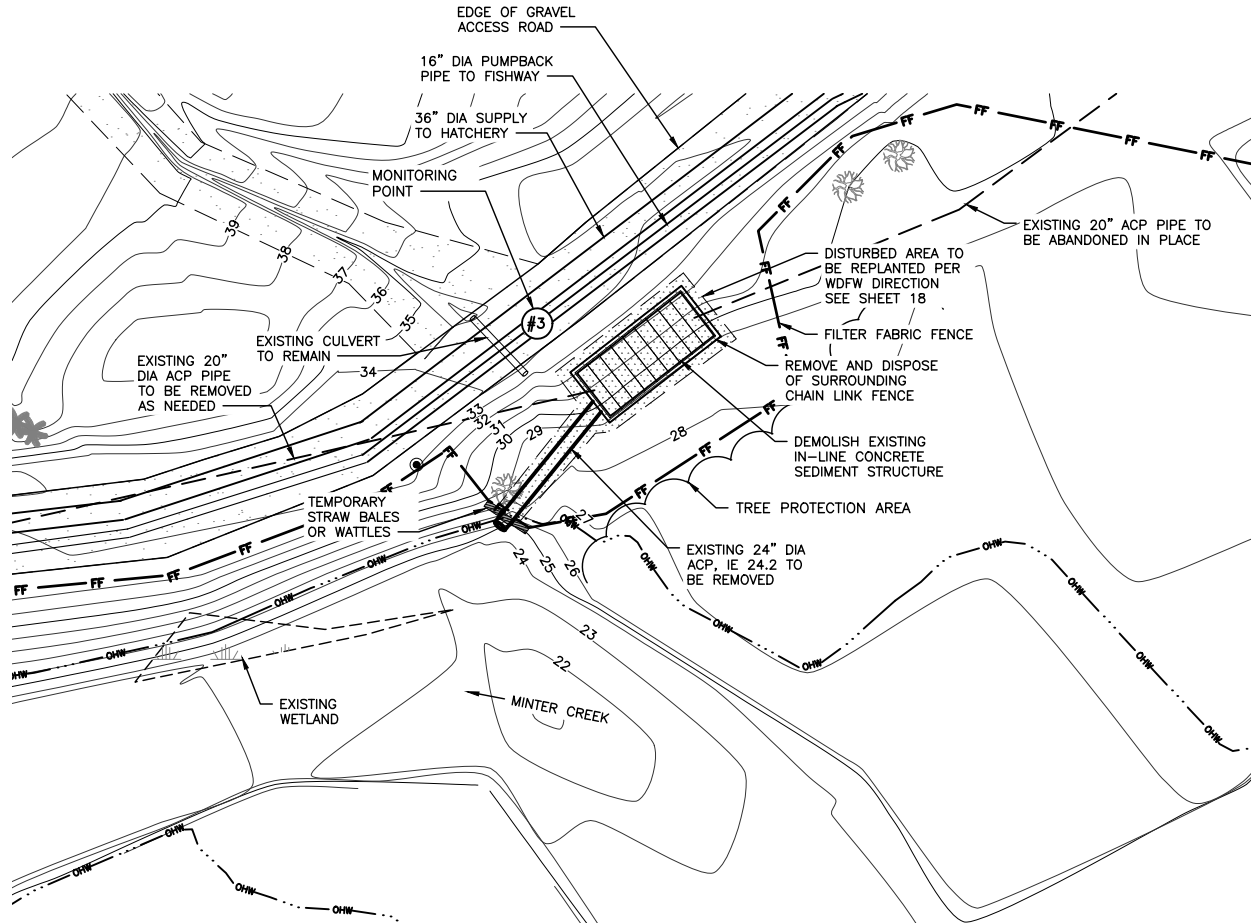
SEDIMENTATION POND PLAN



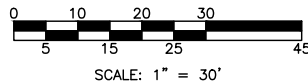
REFERENCE NUMBER: **NWS-2019-990**
 APPLICANT NAME:
 WASHINGTON DEPT. of FISH & WILDLIFE
 PROPOSED PROJECT:
 SURFACE WATER INTAKE REPLACEMENT
 LOCATION: MINTER CREEK HATCHERY
 SHEET 9 OF 20 DATE: 08/14/2023

NOTES:

1. ORDINARY HIGH WATER (OHW), BASED ON 2YR HIGH WATER.
2. REPLANT ALL DISTURBED AREAS PER WFDW SPECIFICATIONS.
3. TOTAL AREA OF PLANTING IS 421 SF.



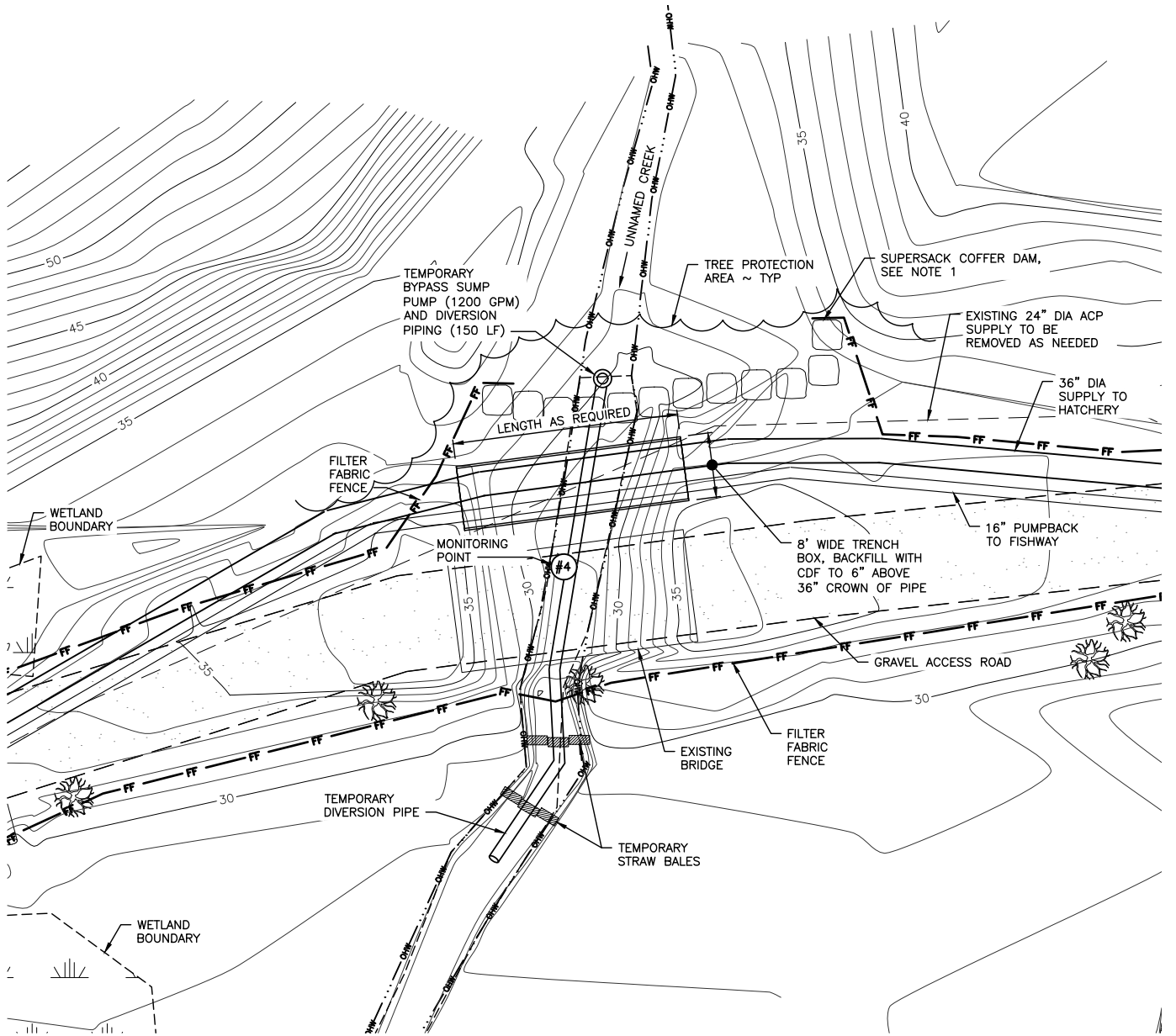
EXISTING IN-LINE SEDIMENT TRAP REMOVAL PLAN



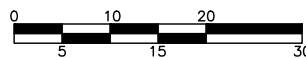
REFERENCE NUMBER: **NWS-2019-990**
APPLICANT NAME:
WASHINGTON DEPT. of FISH & WILDLIFE
PROPOSED PROJECT:
SURFACE WATER INTAKE REPLACEMENT
LOCATION: MINTER CREEK HATCHERY
SHEET 10 OF 20 DATE: 08/14/2023



- NOTES:**
1. COFFER DAM FOR DIVERSION STRUCTURE REMOVAL AND REPLACEMENT
 2. ORDINARY HIGH WATER (OHW), BASED ON 2YR HIGH WATER.
 3. SAVE MATERIAL FROM TRENCH, SEPERATE INTO STREAMBED AND OTHER, REUSE.
 4. REPLANT PER WDFW SPECIFICATIONS.

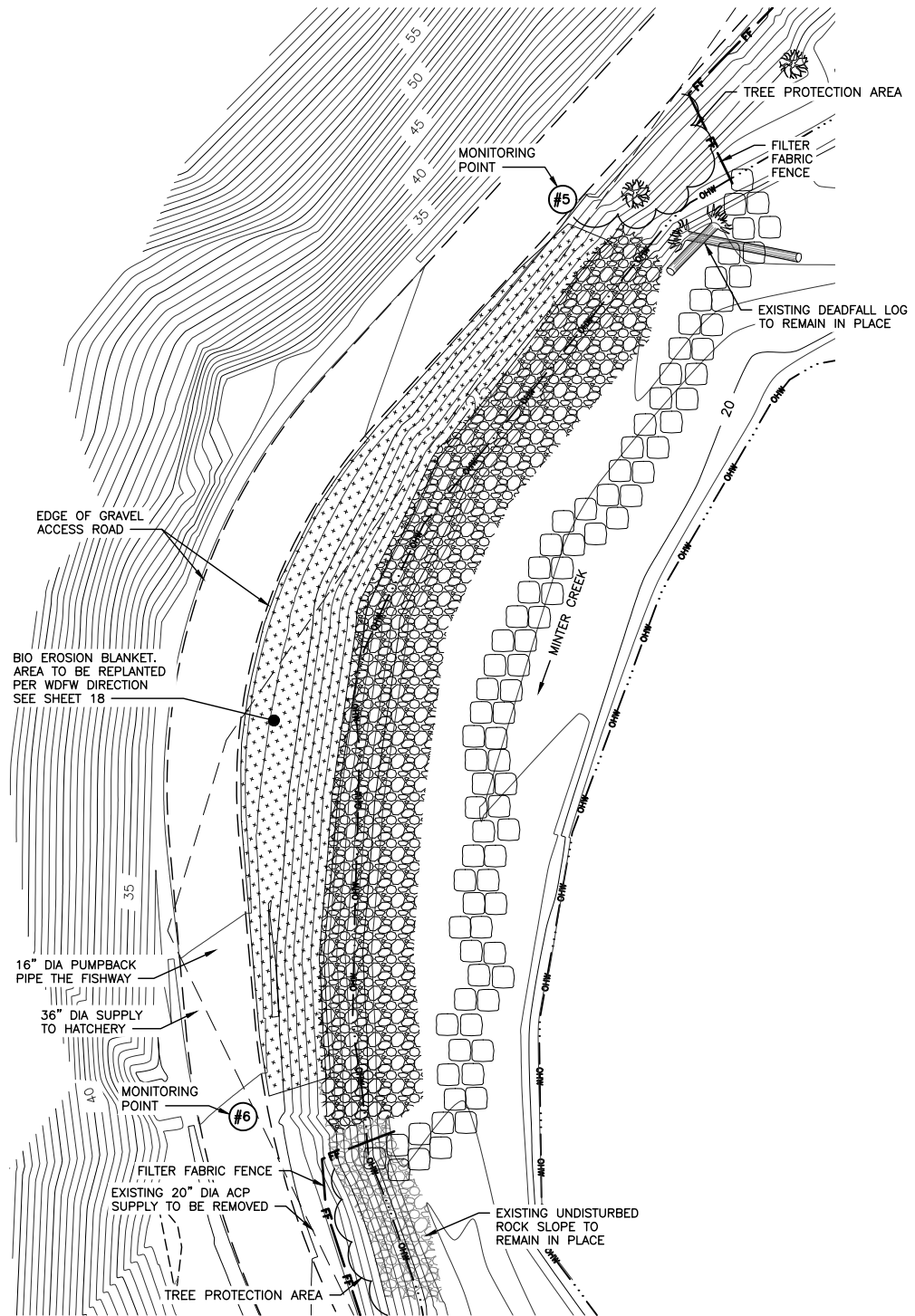


PIPELINE CROSSING AREA



SCALE: 1" = 20'

REFERENCE NUMBER: **NWS-2019-990**
APPLICANT NAME:
WASHINGTON DEPT. of FISH & WILDLIFE
PROPOSED PROJECT:
SURFACE WATER INTAKE REPLACEMENT
LOCATION: **MINTER CREEK HATCHERY**
SHEET **11** OF **20** DATE: **08/14/2023**



BANK STABILIZATION PLAN



NOTES:

1. TOTAL AREA OF PLANTING IS 3130 SF.
2. PLANTING AREA TO EXTEND DOWN TO OHW. DO NOT COVER ROCK ARMORING WITH EROSION CONTROL BLANKET, ONLY WHERE RIVER BANK SOILS ARE EXPOSED.
3. PLANTING TO COMPLY WITH WDFW PLANTING SPECIFICATIONS.
4. ORDINARY HIGH WATER (OHW), BASED ON 2YR HIGH WATER.

REFERENCE NUMBER: **NWS-2019-990**

APPLICANT NAME:

WASHINGTON DEPT. of FISH & WILDLIFE

PROPOSED PROJECT:

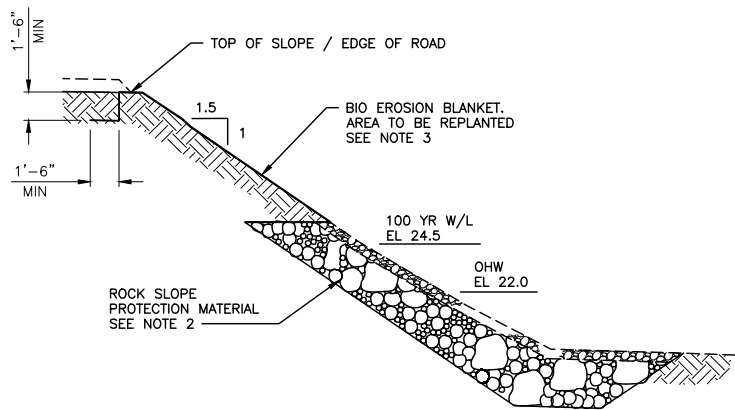
SURFACE WATER INTAKE REPLACEMENT

LOCATION: MINTER CREEK HATCHERY

SHEET 12 OF 20 DATE: 08/14/2023

NOTES:

1. ORDINARY HIGH WATER (OHW), BASED ON 2YR HIGH WATER.
2. ROCK SLOPE PROTECTION PER WSDOT SPECIFICATION 9-13.4 CLASS B ROCK FOR EROSION AND SCOUR PROTECTION. MIX STREAM BED 4" COBBLES PER WSDOT SPECIFICATION 9-03.11(2) INTO NEW ROCK SLOPE PROTECTION ARMORING FILLING INTERSTITIAL VOIDS. ASSUME 10 PERCENT ROCK SLOPE PROTECTION IS 4" COBBLES.
3. PLANTING PER WDFW DIRECTION SEE SHEET 20.



BANK STABILIZATION TYPICAL SECTION

NOT TO SCALE

REFERENCE NUMBER: **NWS-2019-990**

APPLICANT NAME:

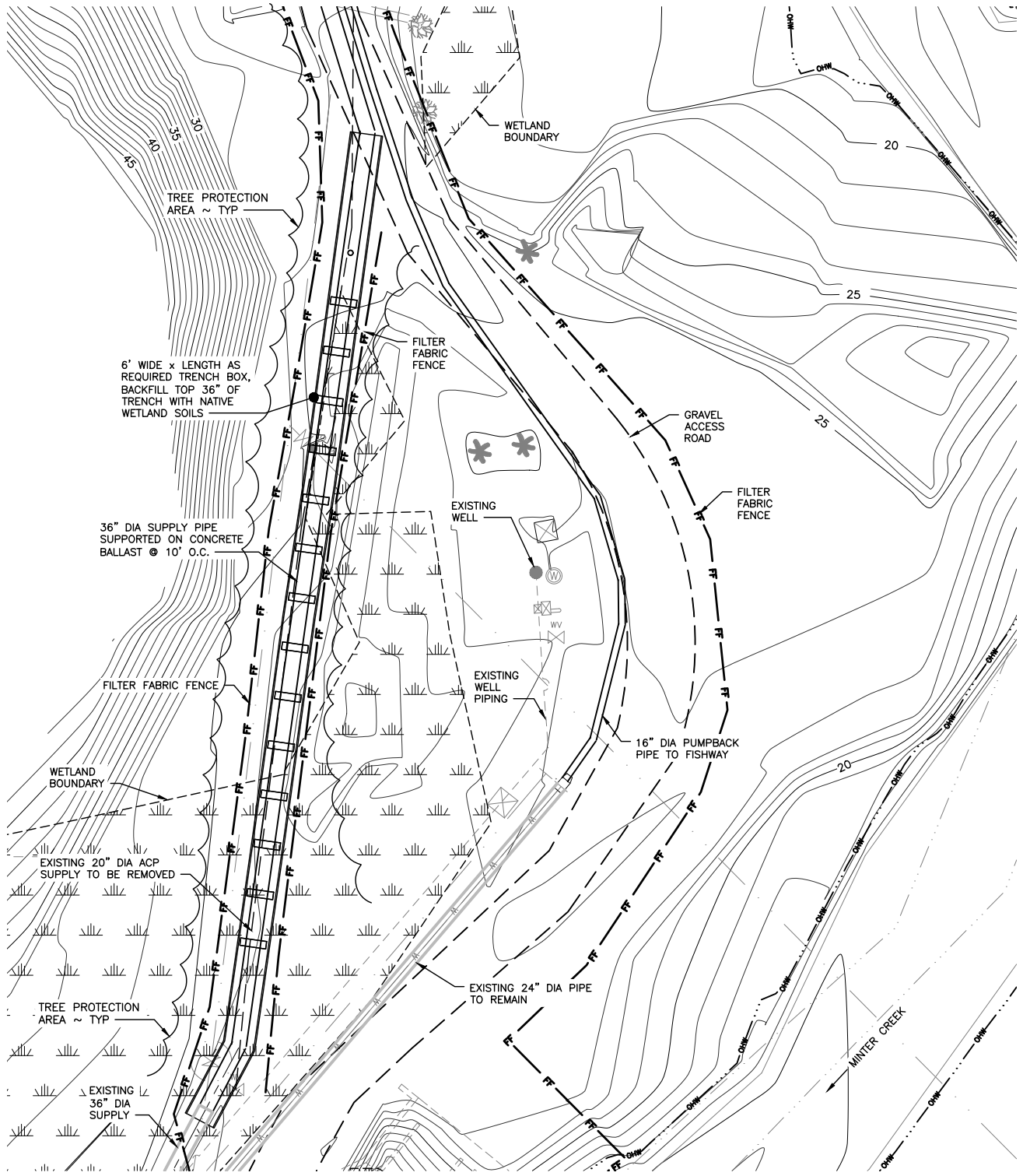
WASHINGTON DEPT. of FISH & WILDLIFE

PROPOSED PROJECT:

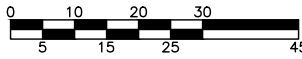
SURFACE WATER INTAKE REPLACEMENT

LOCATION: MINTER CREEK HATCHERY

SHEET 13 OF 20 DATE: 08/14/2023



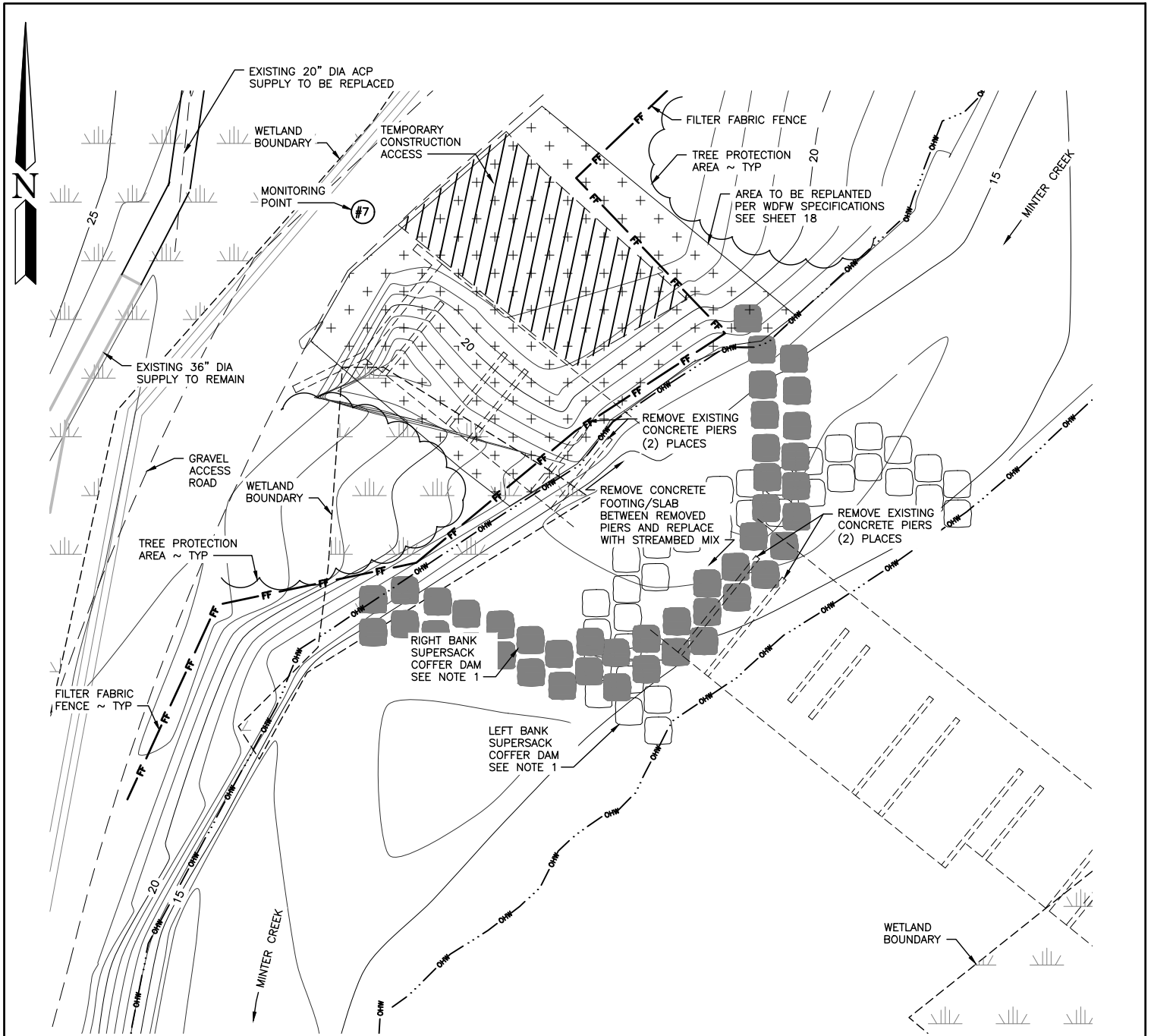
PIPELINE PARTIAL PLAN



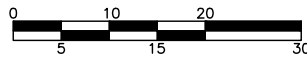
NOTES:

1. IMPACTED WELL LEAK HAS CONTRIBUTED TO WETLAND TO BE IMPACTED.
2. REFILL TRENCH AND PLANT UPON COMPLETION.
3. WETLAND AREA HAS SEPARATE PLANTING PLAN.
4. WDFW WETLAND SPECIALIST REQUIRED TO BE ON-SITE.

REFERENCE NUMBER: **NWS-2019-990**
 APPLICANT NAME:
WASHINGTON DEPT. of FISH & WILDLIFE
 PROPOSED PROJECT:
SURFACE WATER INTAKE REPLACEMENT
 LOCATION: **MINTER CREEK HATCHERY**
 SHEET **14** OF **20** DATE: **08/14/2023**



ABANDONED FISH COLLECTION FACILITY PLAN



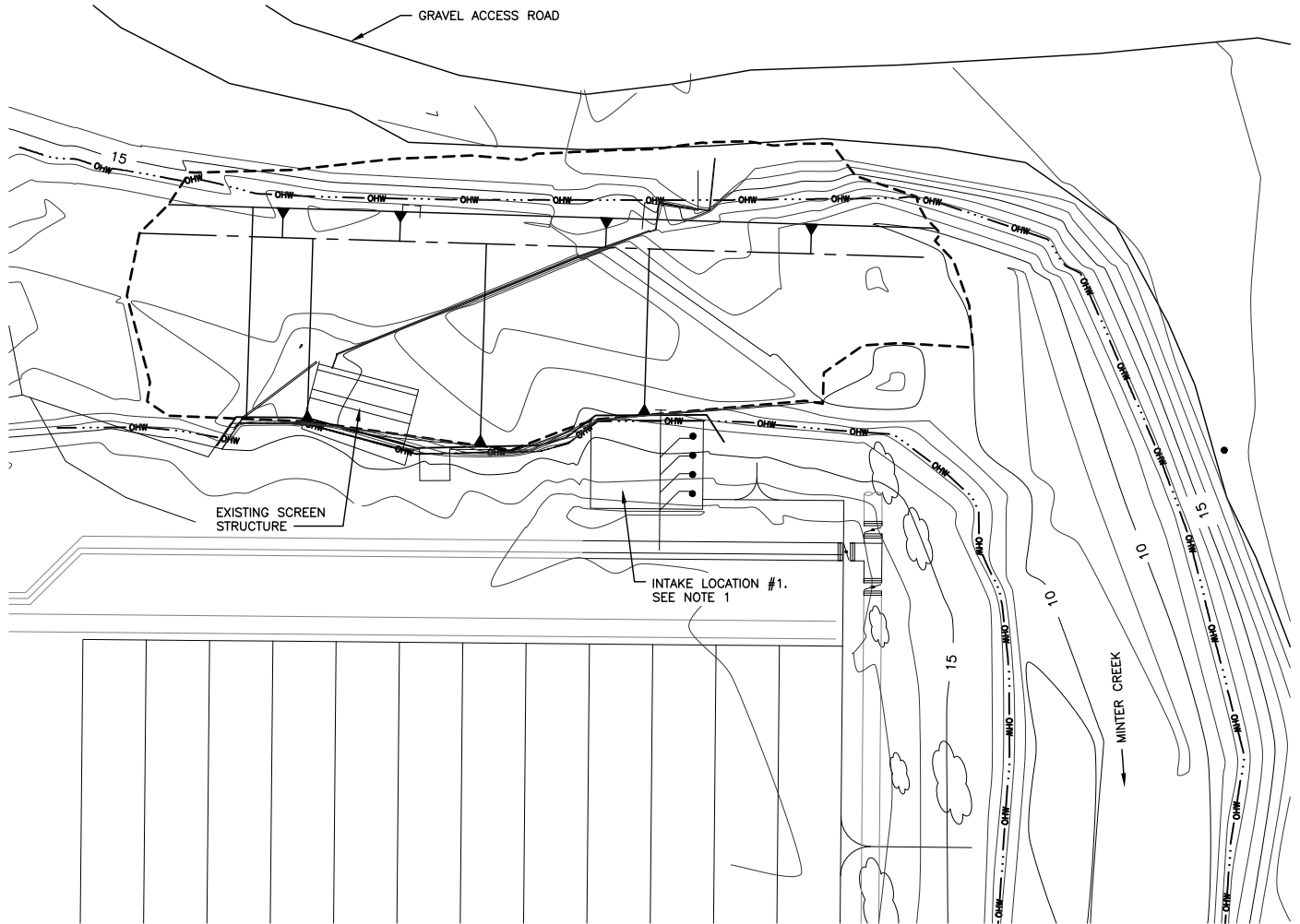
NOTES:

1. CONTRACTOR TO PHASE COFFER DAMS FOR CONCRETE REMOVAL.
2. ORDINARY HIGH WATER (OHW), BASED ON 2YR HIGH WATER.
3. STOCKPILED MINTER CREEK SEDIMENT TO BE USED TO RETAIN STREAMBED ELEVATIONS AFTER CONCRETE REMOVAL.
4. GRADE TO MATCH EXISTING SLOPE 25 FT. UPSTREAM AND 30 FT. DOWNSTREAM OF OLD STRUCTURE.
5. TOTAL AREA OF PLANTING IS 1840 SF.
6. PLANTING AREA TO EXTEND DOWN TO OHW.
7. PLANTING TO COMPLY WITH WDFW PLANTING SPECIFICATIONS.

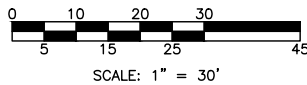
REFERENCE NUMBER: **NWS-2019-990**
 APPLICANT NAME:
WASHINGTON DEPT. of FISH & WILDLIFE
 PROPOSED PROJECT:
SURFACE WATER INTAKE REPLACEMENT
 LOCATION: **MINTER CREEK HATCHERY**
 SHEET 15 OF 20 DATE: 08/14/2023



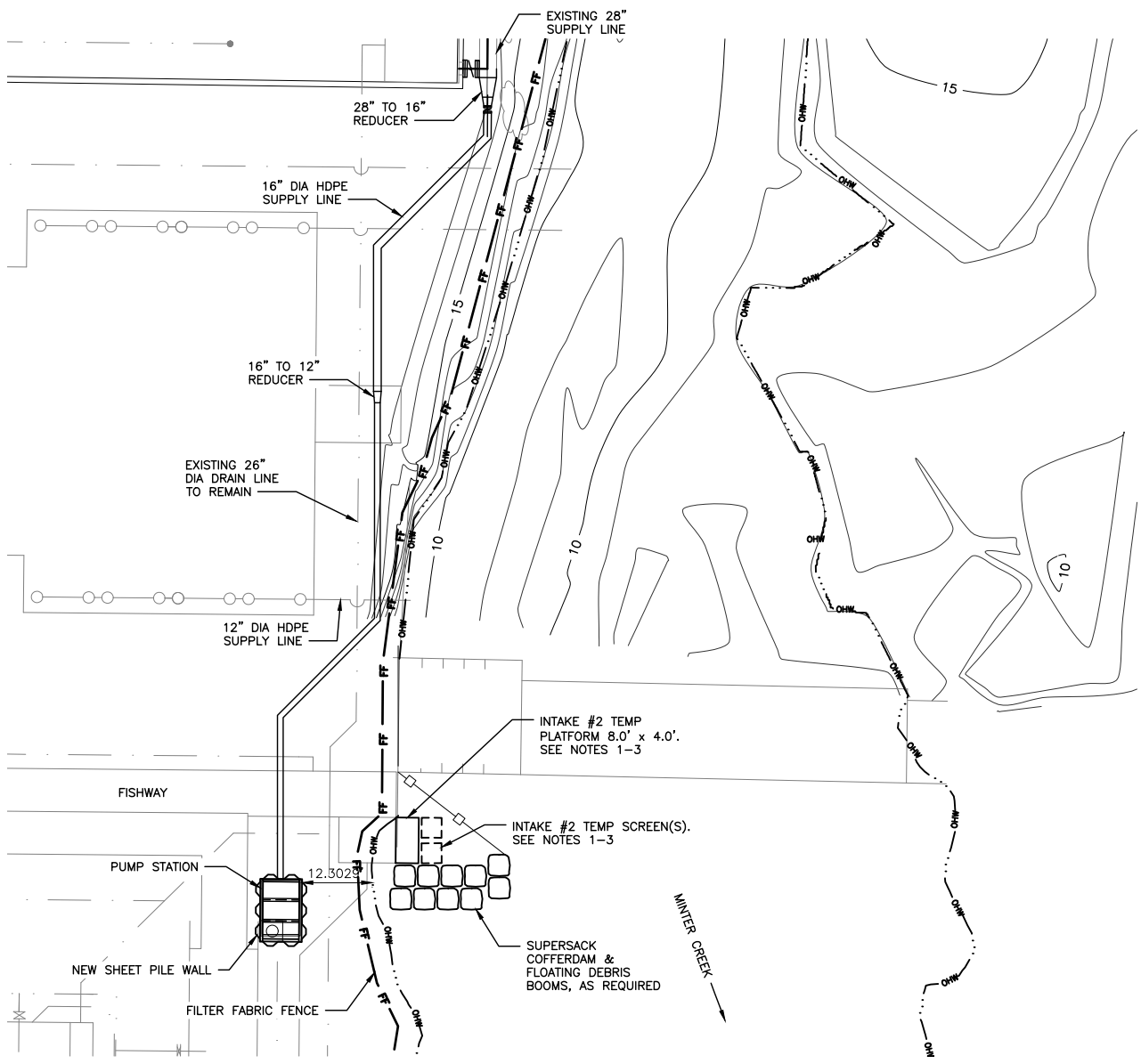
- NOTES:**
1. INTAKE #1 USES EXISTING LOWER INTAKE SCREENS FOR ADDITIONAL 5.4 CFS TEMPORARY HATCHERY PROCESS WATER DURING CONSTRUCTION.
 2. ORDINARY HIGH WATER (OHW), BASED ON 2YR HIGH WATER.



EXISTING LOWER DAM AND INTAKE PLAN



REFERENCE NUMBER: **NWS-2019-990**
APPLICANT NAME:
WASHINGTON DEPT. of FISH & WILDLIFE
PROPOSED PROJECT:
SURFACE WATER INTAKE REPLACEMENT
LOCATION: MINTER CREEK HATCHERY
SHEET 16 OF 20 DATE: 08/14/2023



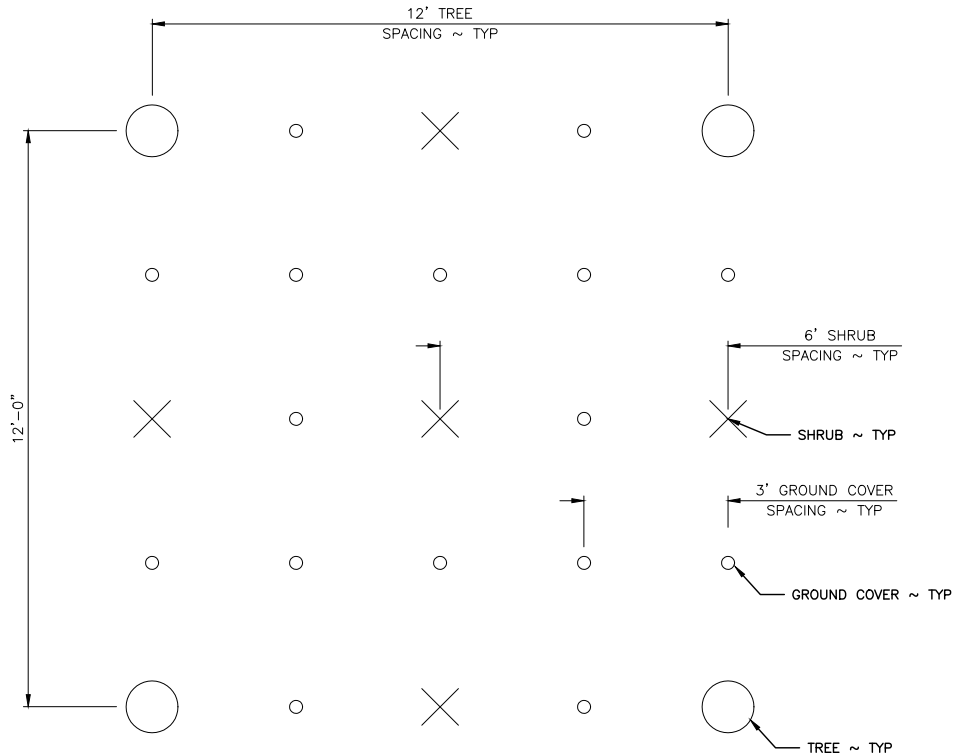
PUMP STATION PLAN



NOTES:

1. INTAKE #2 FOR 6.7 CFS TEMPORARY HATCHERY PROCESS WATER DURING CONSTRUCTION (ADULT PONDS).
2. SCREEN PER NMFS 2022 CRITERIA WITH:
 - SCREENS IN-WATER JUNE - DECEMBER.
 - PASSIVE SCREENS.
3. PLATFORM FOR SCREEN CLEANING ACCESS TO OVERHANG CREEK. STEEL/ALUMINUM/WOOD CONSTRUCTION ANCHORED TO CONCRETE WALL AND CANTILEVERED ABOVE OHW. 2 YEARS DURATION MAX THEN REMOVED.

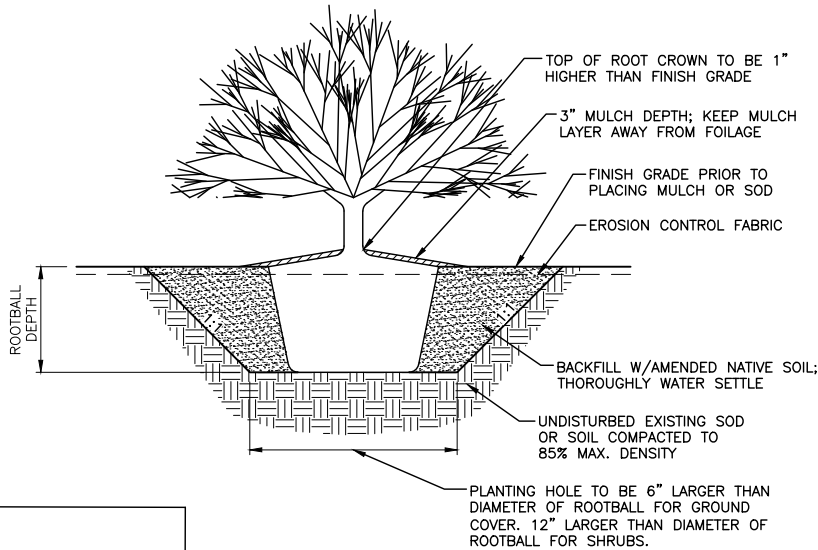
REFERENCE NUMBER: **NWS-2019-990**
 APPLICANT NAME:
 WASHINGTON DEPT. of FISH & WILDLIFE
 PROPOSED PROJECT:
 SURFACE WATER INTAKE REPLACEMENT
 LOCATION: MINTER CREEK HATCHERY
 SHEET 17 OF 20 DATE: 08/14/2023



TYPICAL PLANTING LAYOUT

12' X 12' = 144 SQ FT

3' GROUND COVER
 6' SHRUBS
 12' TREES
 REPEAT SPACING STANDARDS
 OVER LARGER AREAS.
 SEE NOTE 1-3



PLANTING DETAIL

NOT TO SCALE

NOTES:

1. TREES: 6 FEET MIN TALL SAPLINGS 75% WESTERN RED CEDAR (THUJA PLICATA) AND 25% BLACK COTTONWOOD LIVE STAKES (POPULUS BALSAMIFERA V. TRICHOCARPA).
2. SHRUBS: 3 FEET TALL MIN 50% VINE MAPLE (ACER CIRCINATUM) AND 50% EVERGREEN HUCKLEBERRY (VACCINIUM OVATUM).
3. GROUND COVER: 25% SWORD FERN (POLYSTICHUM MUNITUM), 25% WESTERN COLUMBINE (AQUILEGIA FORMOSA), 25% STRAWBERRY (EITHER WILD OR COASTAL) (FRAGARIA VIRGINIANA OR FRAGARIA CHILOENSIS) AND 25% KINNICKINNICK (ARCTOSTAPHYLOS UVA-URSI).

REFERENCE NUMBER: **NWS-2019-990**

APPLICANT NAME:

WASHINGTON DEPT. of FISH & WILDLIFE

PROPOSED PROJECT:

SURFACE WATER INTAKE REPLACEMENT

LOCATION: MINTER CREEK HATCHERY

SHEET 18 OF 20 DATE: 08/10/2023

EXISTING DIVERSION			
ITEM	DISTURBED AREA (SF)		
	BELOW OHWM	ABOVE OHWM	TOTAL
DISTURBED AREA	225	169	394
VOLUME, CUBIC YARD(CY)			
EXCAVATION			
NATIVE SOIL REMOVAL	8	6	14
CONCRETE REMOVAL	7	2	9
STEEL REMOVAL	1	--	1
ASBESTOS CONCRETE PIPE	1	--	1
RIP RAP REMOVAL	12	8	20
TOTAL EXCAVATED VOLUMES	29	16	45
TEMPORARY FILL(COFFERDAM)	27	--	27
BACKFILL			
NATIVE FILL	8	6	14
BANK ARMORING	20	10	30
TOTAL BACKFILL VOLUMES	28	16	44

ROCK BARB			
ITEM	DISTURBED AREA (SF)		
	BELOW OHWM	ABOVE OHWM	TOTAL
DISTURBED AREA	1,037	376	1,413
VOLUME, CUBIC YARD(CY)			
EXCAVATION			
NATIVE SOIL REMOVAL	585	6	591
TOTAL EXCAVATED VOLUMES	585	6	591
TEMPORARY FILL(COFFERDAM)	81	--	81
BACKFILL			
NATIVE FILL	--	--	--
BANK ARMORING	153	6	159
TOTAL BACKFILL VOLUMES	153	6	159

UPPER DAM			
ITEM	DISTURBED AREA (SF)		
	BELOW OHWM	ABOVE OHWM	TOTAL
DISTURBED AREA	1,935	2,801	4,736
VOLUME, CUBIC YARD(CY)			
EXCAVATION			
NATIVE SOIL REMOVAL	72	289	361
CONCRETE REMOVAL	86	54	140
STEEL REMOVAL	2	1	3
WOOD REMOVAL	2	1	3
TOTAL EXCAVATED VOLUMES	162	345	507
TEMPORARY FILL (COFFERDAMS)	326	--	326
BACKFILL			
STRUCTURAL FILL	74	11	85
CONCRETE FILL	229	34	263
STEEL COMPONENTS FILL	2	1	3
NATIVE FILL	--	289	289
BANK ARMORING	--	--	--
TOTAL BACKFILL VOLUMES	305	335	640

SEDIMENTATION POND			
ITEM	DISTURBED AREA (SF)		
	BELOW OHWM	ABOVE OHWM	TOTAL
DISTURBED AREA	--	14,952	14,952
VOLUME, CUBIC YARD(CY)			
EXCAVATION			
ASBESTOS CONCRETE PIPE	--	28	28
SOIL REMOVAL	--	2,227	2,227
TOTAL EXCAVATED VOLUMES	0	2,255	2,255
TEMPORARY FILL(COFFERDAM)	--	--	--
BACKFILL			
STRUCTURAL FILL	--	748	748
GRAVEL PAVING	--	17	17
CONCRETE FILL	--	300	300
NATIVE FILL	--	164	164
TOTAL BACKFILL VOLUMES	0	1,229	1,229

EXISTING IN-LINE SEDIMENT TRAP			
ITEM	DISTURBED AREA (SF)		
	BELOW OHWM	ABOVE OHWM	TOTAL
DISTURBED AREA	8	326	334
VOLUME, CUBIC YARD(CY)			
EXCAVATION			
CONCRETE REMOVAL	--	18	18
SOIL REMOVAL	1	10	11
TOTAL EXCAVATED VOLUMES	1	28	29
TEMPORARY FILL(COFFERDAM)	--	--	--
BACKFILL			
NATIVE SOILS	1	28	29
TOTAL BACKFILL VOLUMES	1	28	29

CREEK CROSSING			
ITEM	DISTURBED AREA (SF)		
	BELOW OHWM	ABOVE OHWM	TOTAL
DISTURBED AREA	134	230	364
VOLUME, CUBIC YARD(CY)			
EXCAVATION			
SOIL REMOVAL	42	74	116
TOTAL EXCAVATED VOLUMES	42	74	116
TEMPORARY FILL(COFFERDAM)	8	32	40
BACKFILL			
RIVER BED MATERIALS	25	14	39
PIPE BEDDING	14	25	39
NEW PIPING	6	9	15
TOTAL BACKFILL VOLUMES	45	48	93

ACCESS ROAD BANK STABILIZATION			
ITEM	DISTURBED AREA (SF)		
	BELOW OHWM	ABOVE OHWM	TOTAL
DISTURBED AREA	1,697	9,707	11,404
VOLUME, CUBIC YARD(CY)			
EXCAVATION			
ROAD GRAVEL	--	55	55
SOIL REMOVAL	254	28	282
TOTAL EXCAVATED VOLUMES	254	83	337
TEMPORARY FILL (COFFERDAMS)	117	--	117
BACKFILL			
GRAVEL SURFACING	--	55	55
NATIVE FILL	--	139	139
BANK ARMORING	254	103	357
TOTAL BACKFILL VOLUMES	254	297	551

ABANDONED FISH COLLECTION FACILITY			
ITEM	DISTURBED AREA (SF)		
	BELOW OHWM	ABOVE OHWM	TOTAL
DISTURBED AREA	941	1,013	1,954
VOLUME, CUBIC YARD(CY)			
EXCAVATION			
CONCRETE REMOVAL	39	23	62
TOTAL EXCAVATED VOLUMES	39	23	62
TEMPORARY FILL (COFFERDAMS)	50	--	50
BACKFILL			
RIVER BED MATERIALS	35	--	35
NATIVE FILL	--	6	6
TOTAL BACKFILL VOLUMES	35	6	41

REFERENCE NUMBER: **NWS-2019-990**
 APPLICANT NAME:
 WASHINGTON DEPT. of FISH & WILDLIFE
 PROPOSED PROJECT:
 SURFACE WATER INTAKE REPLACEMENT
 LOCATION: MINTER CREEK HATCHERY
 SHEET 19 OF 20 DATE: 08/14/2023

WETLAND			
ITEM	DISTURBED AREA (SF)		
	BELOW OHWM	ABOVE OHWM	TOTAL
DISTURBED AREA	--	2,220	2,220
VOLUME, CUBIC YARD(CY)			
EXCAVATION			
NATIVE SOIL REMOVAL	--	386	386
ASBESTOS PIPE REMOVAL	--	46	46
TOTAL EXCAVATED VOLUMES	--	432	432
TEMPORARY FILL (COFFERDAMS)	--	--	--
BACKFILL			
NATIVE FILL	--	185	185
PIPE BEDDING	--	190	190
NEW PIPING	--	57	57
TOTAL BACKFILL VOLUMES	0	432	432

OVERALL PROJECT DATA						
PROJECT NAME	DISTURBED AREA (SQ FT)		CUT \ FILL VOLUMES (CY)			
	BELOW OHWL	ABOVE OHWL	CUT BELOW OHWL	CUT ABOVE OHWL	FILL BELOW OHWL	FILL ABOVE OHWL
EXISTING DIVERSION	225	169	29	16	28	16
ROCK BARBS	1,037	376	585	6	153	6
UPPER DAM	1,935	2,801	162	345	305	335
SEDIMENTATION POND	0	14,952	0	2,255	0	1,229
EXISTING IN-LINE SEDIMENT TRAP	8	326	1	28	1	28
CREEK CROSSING	134	230	42	74	45	48
ACCESS RD BANK STABILIZATION	1,697	9,707	254	83	254	297
ABANDONED FISH COLLECTION FACILITY	941	1,013	39	23	35	6
WETLAND	0	2,220	0	432	0	432
TOTALS	5,977	31,794	1,112	3,262	821	2,397

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 APPLICANT NAME:
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 PROPOSED PROJECT:
 SURFACE WATER INTAKE REPLACEMENT
 LOCATION: MINTER CREEK HATCHERY
 SHEET 20 OF 20 DATE: 08/14/2023