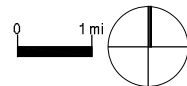
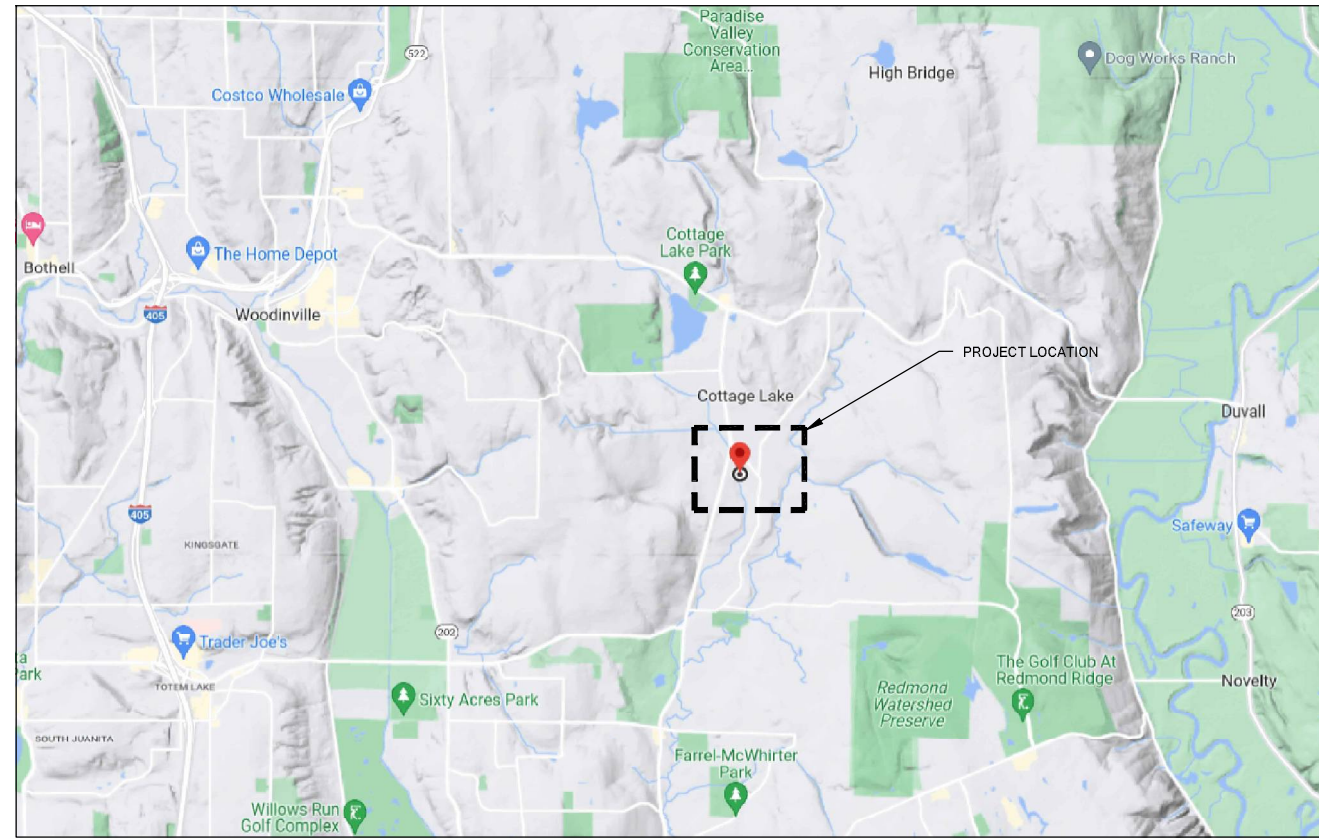
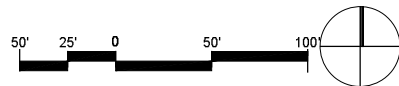
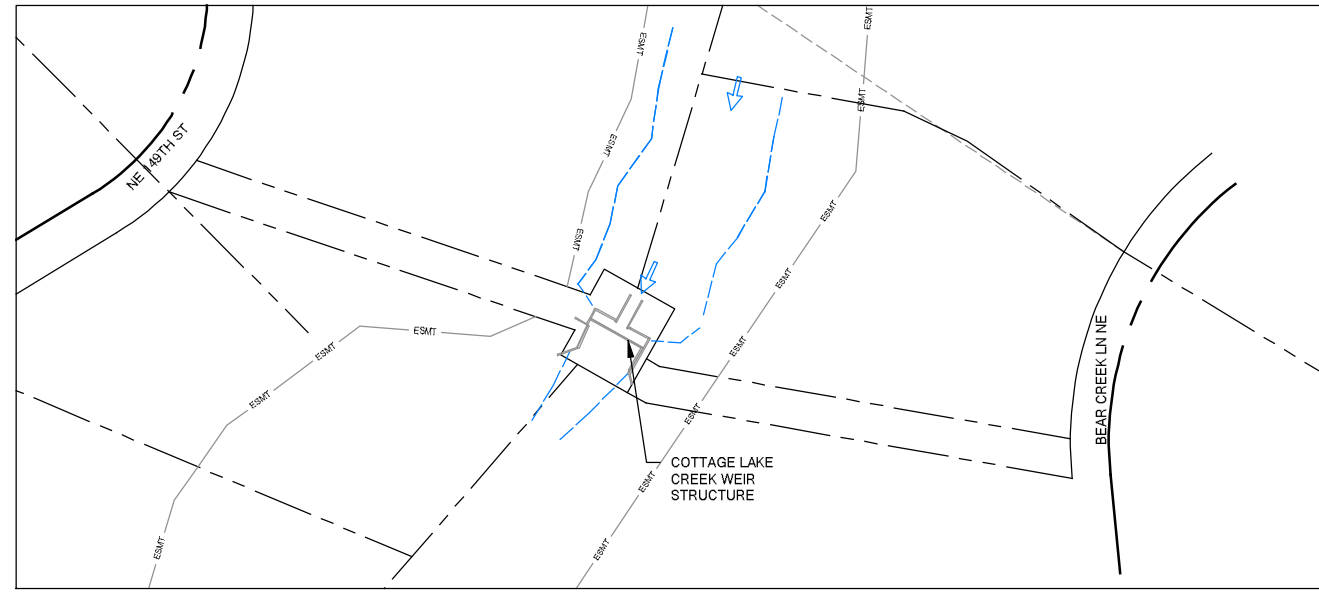


VICINITY MAP



PROJECT LOCATION



SHEET INDEX

SHEET	DESCRIPTION
1.	COVER SHEET AND VICINITY MAP
2.	C01 - FLOW DIVERSION AND FISH EXCLUSION PLAN
3.	C02 - DEMOLITION PLAN
4.	C03 - GRADING PLAN
5.	C04 - PROPOSED SITE AND RESTORATION PLAN

COTTAGE LAKE CREEK WEIR REMOVAL PROJECT CONCEPTUAL PLAN SET

PROJECT TEAM

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 7400 SAND POINT WAY NE #202N
 Seattle, WA 98115
 CONTACT: AMANI MOYER-ALI
 PH: (206) 529-9467

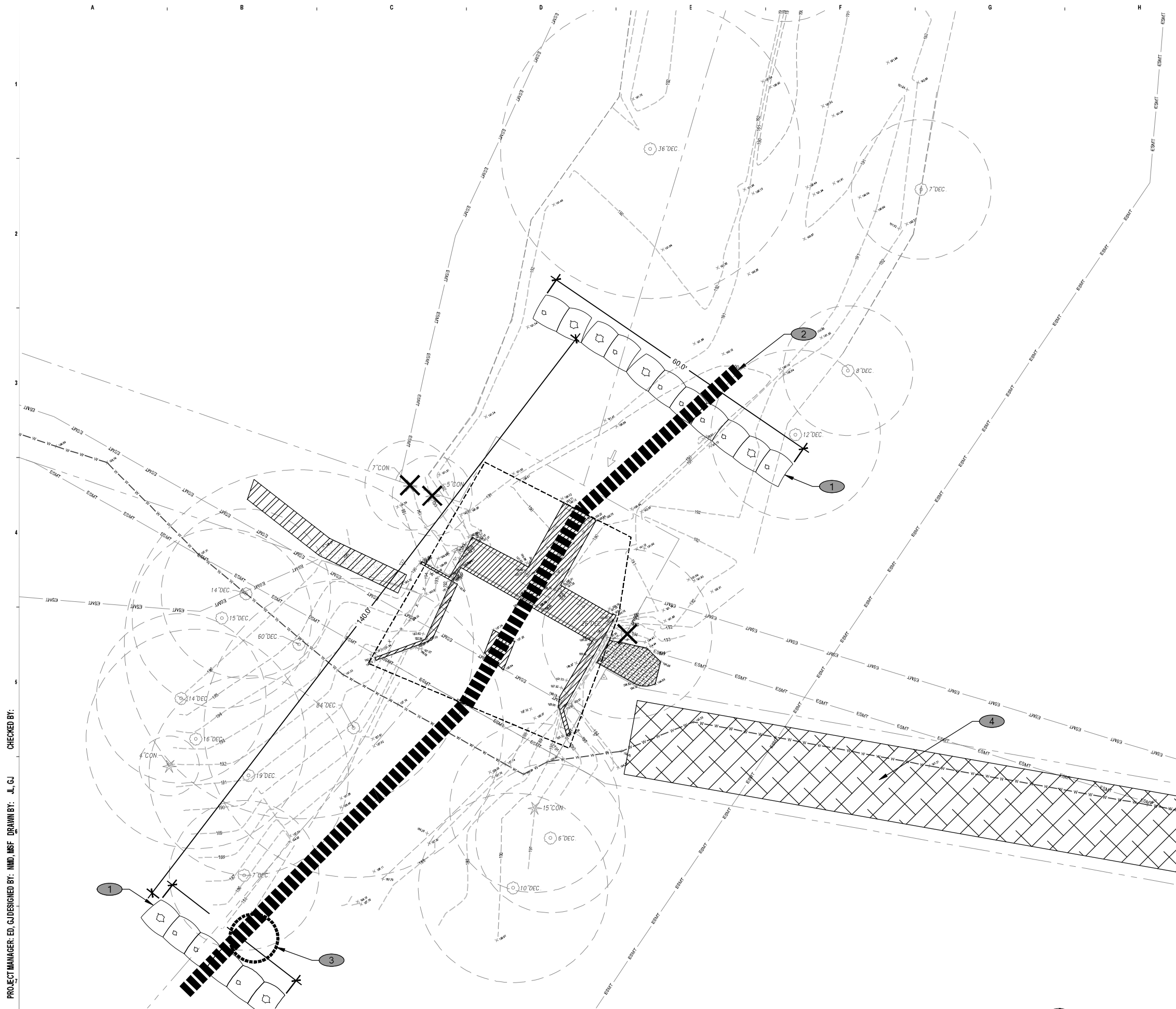
DCGWATERSHED
 750 6TH ST S
 KIRKLAND, WA 98033
 CONTACT: GREG JOHNSTON
 PH: (425) 822-5242

GEOMORPHOLOGY:
 ALTATERRA CONSULTING LLC
 10333 40TH AVE NE
 SEATTLE, WA 98125
 PH: (206) 418-8084

GEOTECHNICAL:
 HWA GEOSCIENCES, INC.
 21312 30TH DRIVE SE, SUITE 110
 BOTHELL, WA 98021
 OFFICE: (425) 774-0106 EXT. 242
 DIRECT: (425) 499-6909

PROJECT MANAGER: ED. G. DESIGNED BY: NMD, MSF DRAWN BY: J.L. G.J. CHECKED BY:

NO.	DATE	BY	REVISION
BASE MAP TOPOGRAPHY PROVIDED BY OTHERS. DCGWATERSHED CANNOT BE HELD LIABLE FOR ACCURACY. CONTRACTOR SHALL VERIFY GRADES, UTILITIES, AND ALL OTHER EXISTING CONDITIONS PRIOR TO CONSTRUCTION. DCGWATERSHED IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS. CONTACT: DCGWATERSHED PRIOR TO CONSTRUCTION.			
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FEDERAL WAY KIRKLAND MOUNT VERNON SEATTLE SPOKANE WIDEBAY ISLAND			
CALL 811 2 BUSINESS DAYS BEFORE YOU DIG (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)			
COTTAGE LAKE CREEK WEIR REMOVAL PREPARED FOR: MID SOUND FISHERIES PROJECT LOCATION: WOODINVILLE WA, 98077 TWC 221032			
COVER			
DATE: 7/17/2023 PLAN NUMBER: G01			
SHEET 1 OF 5			



FLOW DIVERSION AND FISH EXCLUSION NOTES

1. ISOLATE CREEK REACH WORK AREA. INSTALL BYPASS PIPE, AND EXECUTE FISH REMOVAL AND EXCLUSION PLAN PER THE WATERSHED COMPANY, MARCH 20, 2023 MEMORANDUM.
2. WATER PUMPED FROM EXCAVATION AREAS SHALL BE DISCHARGED TO A COIR LOG OR SILT FENCE SEDIMENT TRAP LOCATED IN A VEGETATED UPLAND AREA. CONTROL DISCHARGE RATE AND PROVIDE EROSION CONTROL MATTING TO AVOID EROSION AT POINT OF PUMP DISCHARGE.
3. CONDUCT WEIR DEMOLITION AND ROUGH GRADING WITHIN DE-WATERED CREEK SECTION.
4. INDICATED PLAN IS A MINIMUM. RELOCATE, ADJUST AND AMEND AS NECESSARY TO MEET APPLICABLE CONSTRUCTION AND WATER QUALITY STANDARDS.

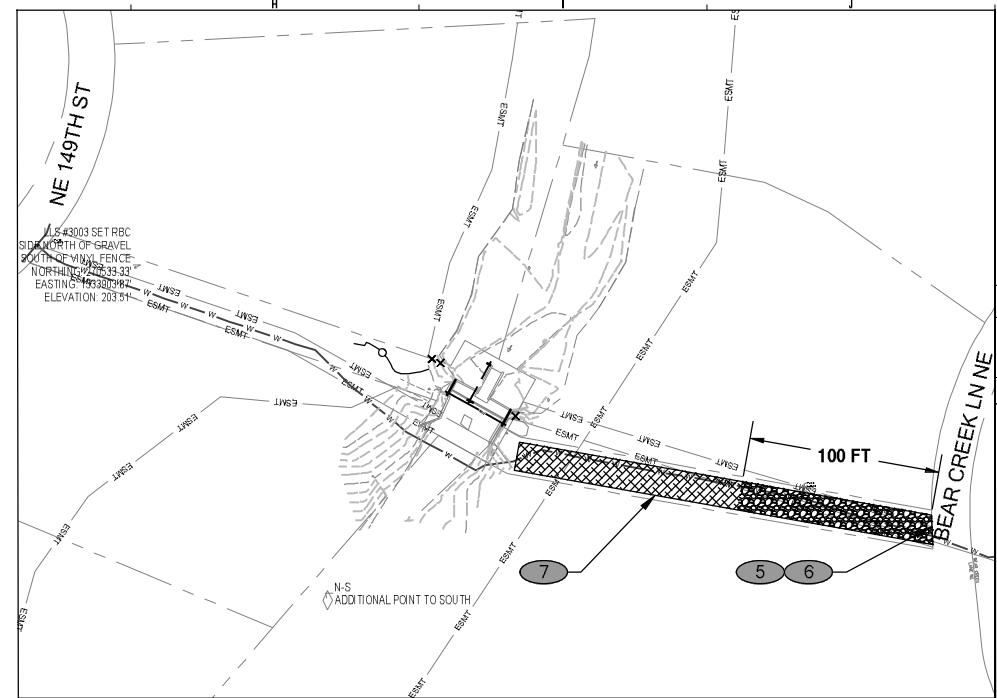
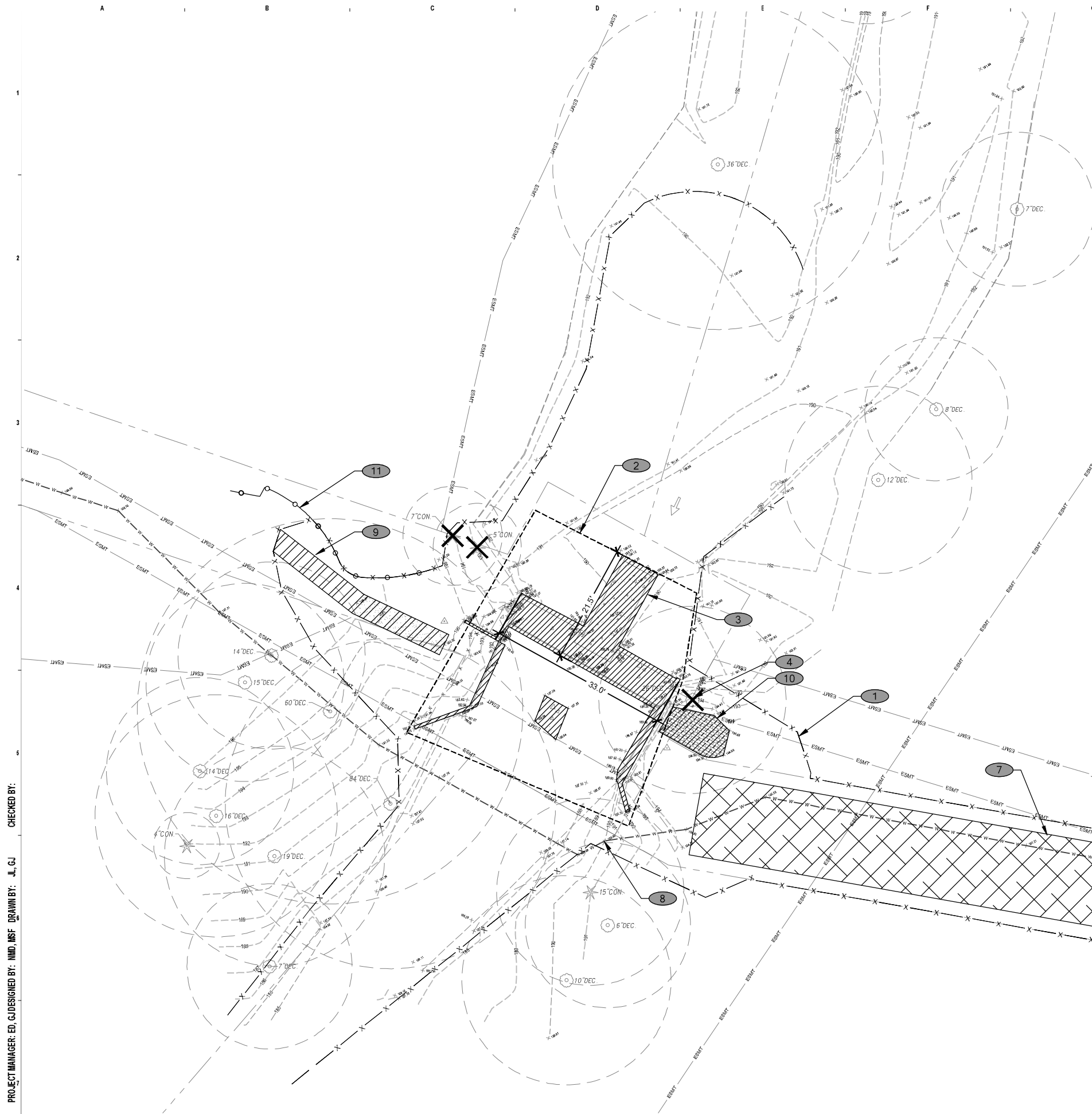
KEY NOTES

- 1 COFFERDAM SUPPLEMENTED WITH TURBIDITY CURTAIN SYSTEM AS NEEDED, TYP.
- 2 MOVABLE CONSTRUCTION FLOW BYPASS PIPE.
- 3 APPROXIMATE SUMP PUMP AREA, SEE ABOVE TESC NOTE 2.
- 4 SEE C02 FOR CONSTRUCTION ACCESS

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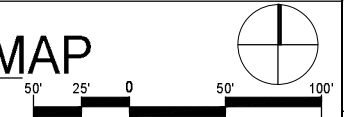
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NO.	DATE	BY	REVISION
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FEDERAL WAY KIRKLAND MOUNT VERNON SEATTLE SPOKANE WHIDBEY ISLAND			
CALL 811 2 BUSINESS DAYS BEFORE YOU DIG <small>(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)</small>			
COTTAGE LAKE CREEK WEIR REMOVAL PREPARED FOR: MID SOUND FISHERIES PROJECT LOCATION: WOODINVILLE WA, 98077 TWC 221032			
FLOW DIVERSION AND FISH EXCLUSION PLAN			
DATE: 7/17/2023 PLAN NUMBER: C01			
SHEET 2 OF 5			



CONSTRUCTION ACCESS MAP

SCALE 1"=50'



DEMOLITION NOTES

1. STABILIZE TEMPORARY ACCESS ROUTES WITH HOG FUEL AS NECESSARY TO MAINTAIN ROUTE IN PASSABLE CONDITION OR AS DIRECTED BY INSPECTOR OR ENGINEER.
2. MINIMIZE TEMPORARY ACCESS ROUTE WIDTH AS NECESSARY TO MINIMIZE CLEARING OF AND DAMAGE TO EXISTING TREES OR VEGETATION.
3. FLAG TREES OR VEGETATION REQUIRING REMOVAL OR PRUNING FOR ACCESS. CONSULT RESTORATION ECOLOGIST PRIOR TO WORK.
4. PROTECT TREES ADJACENT TO WORK WITH PLANKING AS NECESSARY TO PREVENT DAMAGE TO TREES OR AS DIRECTED BY THE RESTORATION ECOLOGIST.
5. INSTALL HIGH VISIBILITY FENCE WHERE DIRECTED BY ENGINEER AT PROJECT LIMITS/CLEARING LIMITS.
6. SEE FLOW DIVERSION AND FISH EXCLUSION PLAN. CREEK SECTION SHALL BE DE-WATERED PRIOR TO DEMOLITION WORK.
7. INDICATED PLAN IS A MINIMUM. RELOCATE, ADJUST AND AMEND AS NECESSARY TO MEET APPLICABLE CONSTRUCTION AND WATER QUALITY STANDARDS.

KEY NOTES

- 1 APPROXIMATE CLEARING AND GRUBBING EXTENTS. INSTALL PERIMETER PROTECTION (I.E. COIR LOGS OR APPROVED EQUAL). RELOCATE THROUGHOUT CONSTRUCTION TO ACCOMMODATE WORKABLE AREA OR AS DIRECTED BY ENGINEER (TYP).
- 2 APPROXIMATE CHANNEL EXCAVATION LIMITS.
- 3 CONCRETE WEIR, WALLS, AND BRIDGE ABUTMENTS TO BE REMOVED.
- 4 TREE TO BE REMOVED (TYP).
- 5 INSTALL TEMPORARY CONSTRUCTION ENTRANCE AND PARKING ACCESS FROM EXISTING PULLOUT ON BEAR CREEK LN NE.
- 6 CONTRACTOR SHALL NOT TRACK MUD OR DEBRIS INTO BEAR CREEK LN NE, IF MUD OR DEBRIS IS TRACKED ONTO BEAR CREEK LN NE, STREET SWEEPING SHALL BE CONDUCTED IMMEDIATELY.
- 7 INSTALL TEMPORARY CONSTRUCTION ROAD USING MULCH OR ROCK.
- 8 PROTECT WATERMAIN DURING CONSTRUCTION (DEPTH IS APPROXIMATELY 4' BELOW CHANNEL PER AS-BUILT INFORMATION). PROJECT SEEKS TO MINIMIZE GROUND DISTURBANCE ABOVE PIPE AND AVOID FUTURE SCOUR. WATERMAIN RELOCATION MAY BE REQUIRED FOR FINISHED CONDITION (TBD).
- 9 GRAVEL TRAIL SECTION TO BE REMOVED WITHIN PROJECT LIMITS. WESTERN END REMOVAL APPROXIMATED, TO BE VERIFIED IN FIELD.
- 10 BRICKS FROM EXISTING BRICK-PAVED TRAIL TO BE SALVAGED AND STACKED AT A LOCATION TO BE INDICATED BY THE PROPERTY OWNER.
- 11 APPROXIMATE LOCATION OF EXISTING RESIDENTIAL BRICK WALL AND VEGETATION. ADDITIONAL SURVEY AND INVESTIGATION TO BE CONDUCTED TO DETERMINE LOCATION AND PROTECTION MEASURES.



PROJECT MANAGER: ED. G. DESIGNED BY: NMD, MSF DRAWN BY: J.L. G.J. CHECKED BY:

NO.	DATE	BY	REVISION

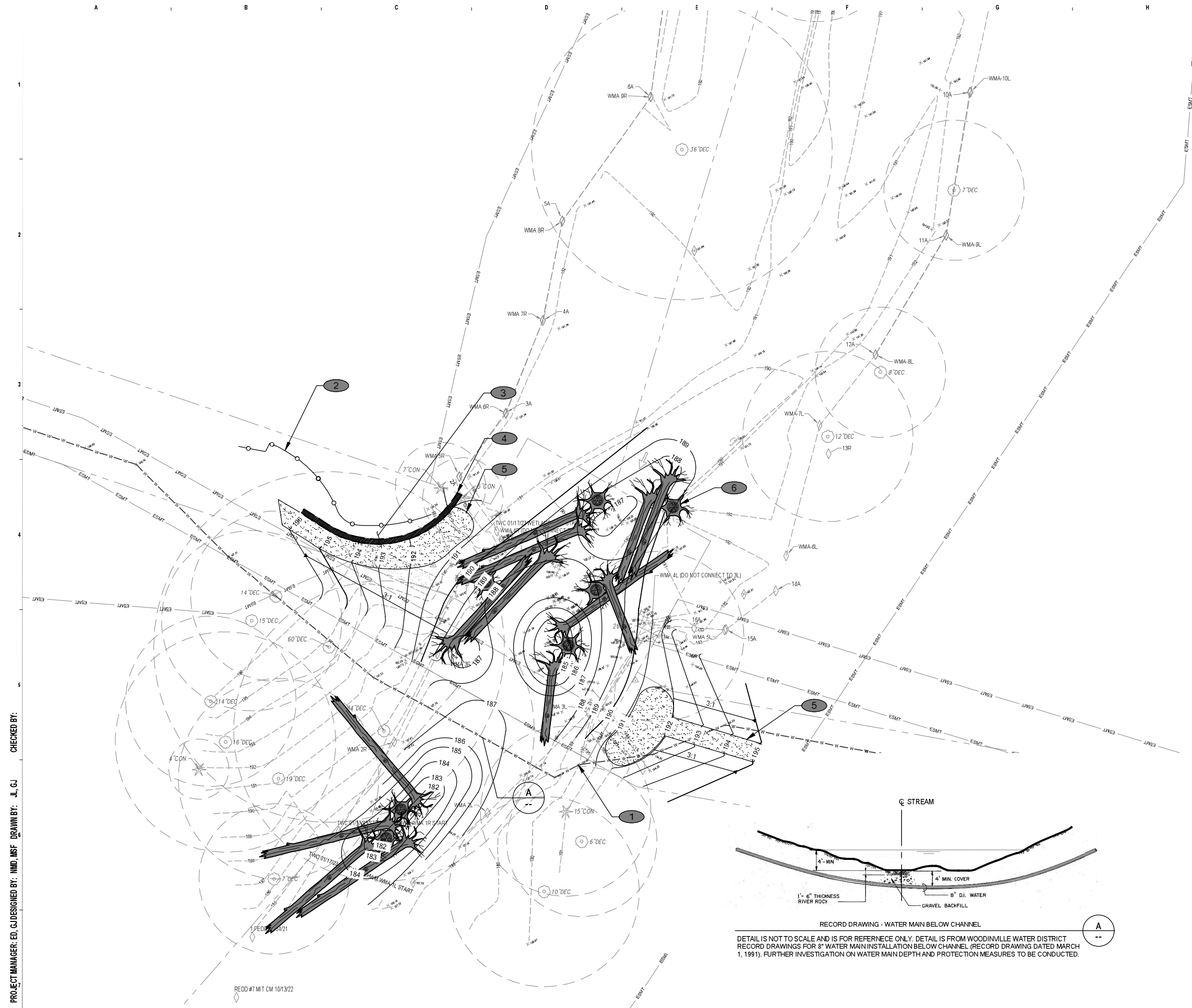
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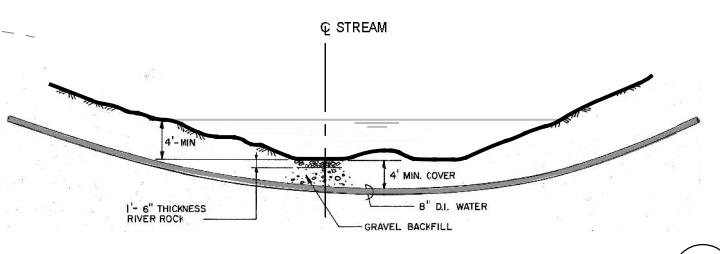
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(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

COTTAGE LAKE CREEK WEIR REMOVAL
 PREPARED FOR: MID SOUND FISHERIES
 PROJECT LOCATION: WOODINVILLE WA, 98077
 TWC 221032

DEMOLITION PLAN
DATE: 7/17/2023
PLAN NUMBER: C02
SHEET 3 OF 5



- ### KEY NOTES
- 1 PROTECT WATERMAIN DURING CONSTRUCTION (DEPTH IS APPROXIMATELY 4' BELOW CHANNEL PER AS-BUILT INFORMATION). PROJECT SEEKS TO MINIMIZE GROUND DISTURBANCE ABOVE PIPE AND AVOID FUTURE SCOUR. WATERMAIN RELOCATION MAY BE REQUIRED FOR FINISHED CONDITION (TBD).
 - 2 APPROXIMATE LOCATION OF EXISTING RESIDENTIAL BRICK WALL AND VEGETATION. ADDITIONAL SURVEY AND INVESTIGATION TO BE CONDUCTED TO DETERMINE LOCATION AND PROTECTION MEASURES.
 - 3 TOPOGRAPHY IN THIS AREA IS APPROXIMATE, ADDITIONAL SURVEY & INVESTIGATION AT PERMIT-LEVEL OR FINAL DESIGN.
 - 4 LANDSCAPE WALL, ADDITIONAL SURVEY AND INVESTIGATION TO BE CONDUCTED.
 - 5 PROPOSED TRAIL AND OVERLOOK, TYP. SEE PROPOSED SITE & RESTORATION PLAN.
 - 6 PRELIMINARY LARGE WOODY MATERIAL PLACEMENT (TYP).



RECORD DRAWING - WATER MAIN BELOW CHANNEL
 DETAIL IS NOT TO SCALE AND IS FOR REFERENCE ONLY. DETAIL IS FROM WOODINVILLE WATER DISTRICT RECORD DRAWINGS FOR 8\"/>

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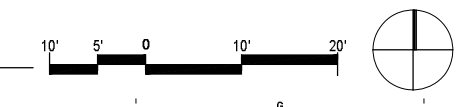
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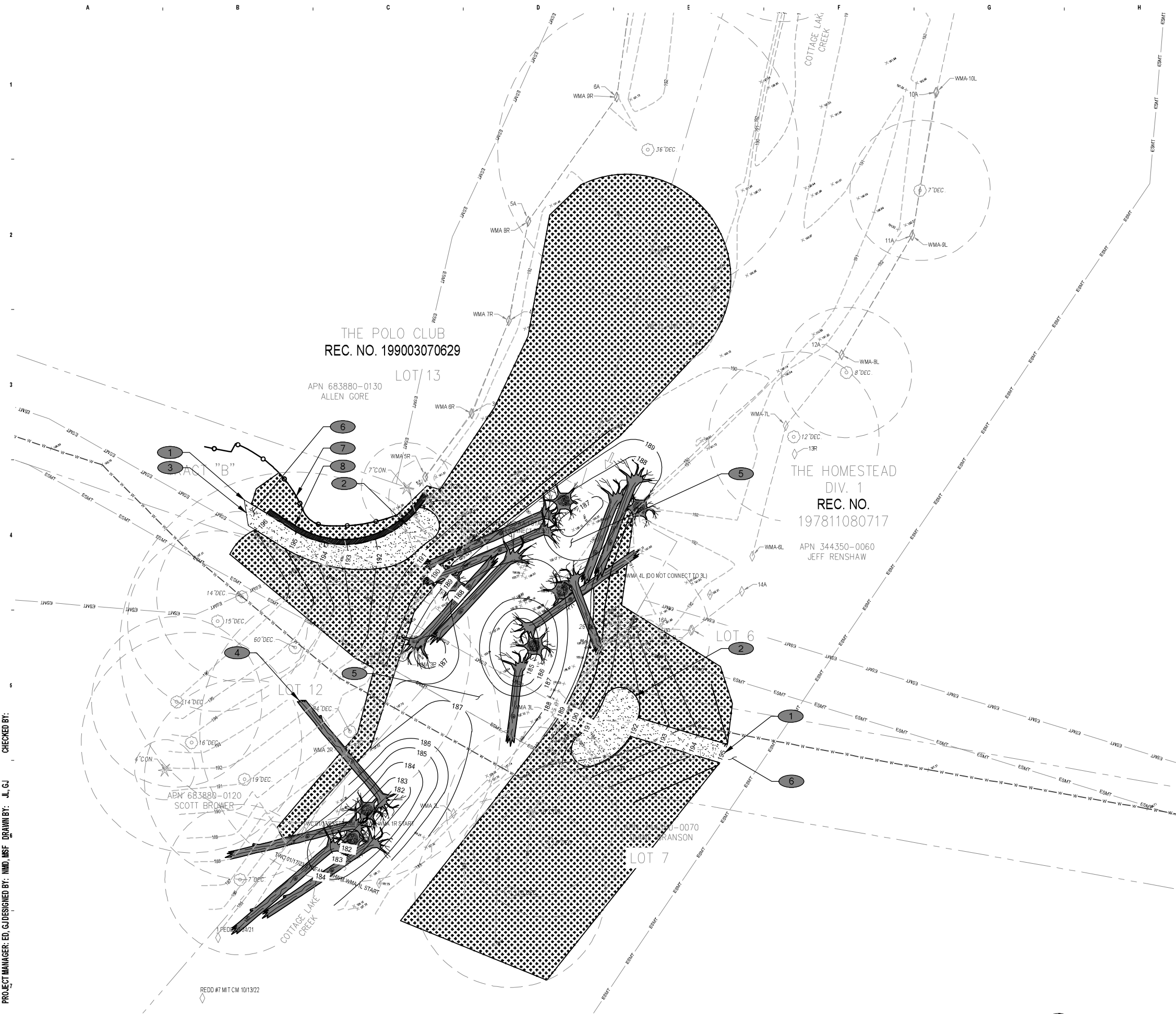
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COTTAGE LAKE CREEK WEIR REMOVAL
 PREPARED FOR: MID SOUND FISHERIES
 PROJECT LOCATION: WOODINVILLE WA, 98077
 TWC 221032

GRADING PLAN
 DATE: 7/17/2023
 PLAN NUMBER: C03
 SHEET 4 OF 5





SITE PLAN AND RESTORATION NOTES

1. INSTALL PATH AND OVERLOOK AREA FOLLOWING CREEK RESTORATION, AND PRIOR TO SITE RESTORATION. WEST SIDE PATH ALIGNMENT IS APPROXIMATE AND SHALL BE FIELD ADJUSTED TO MEET UP WITH EXISTING PATH (CURRENTLY OUTSIDE SURVEY AREA).
2. CLEAR AND GRUB ALL INVASIVE OR UNDESIRABLE PLANT SPECIES IN THE RESTORATION AREA.
3. DECOMPACT AND AMEND SOILS IN DISTURBED AREAS. DO NOT USE MACHINERY IN ROOT ZONES OF TREES TO REMAIN.
4. STABILIZE CLEARED AREAS WITH THE PLACEMENT OF A LAYER OF WOOD CHIP MULCH. AREAS ADJACENT TO THE CREEK MAY ALSO REQUIRE THE INSTALLATION OF BIODEGRADABLE GEOTEXTILE FABRIC.
5. REVEGETATE THE SITE WITH NATIVE PLANTS PER THE BELOW CANDIDATE LIST OR OTHER NATIVE PLANTS AS DIRECTED. PLANTS SHALL BE INSTALLED DURING THE FIRST DORMANT SEASON (OCT THROUGH MARCH) FOR BEST SURVIVAL.
6. FOR THE FIRST TWO CONSECUTIVE SUMMERS, PLANTS WILL REQUIRE SUPPLEMENTAL WATER DELIVERY. A TEMPORARY, ABOVE GROUND IRRIGATION SYSTEM WITH A TIMER IS RECOMMENDED.

KEY NOTES

1. FOUR (4) FT WIDE PATH, DECOMPOSED GRANITE OR OTHER OWNER SELECTED MATERIAL PATH.
2. DECOMPOSED GRANITE OR OTHER OWNER SELECTED MATERIAL OVERLOOK AREA.
3. CONNECT TO EXISTING PATH, OUTSIDE OF SURVEYED AREA. PATH ALIGNMENT SHALL BE FIELD ADJUSTED AS NEEDED.
4. PRELIMINARY LARGE WOODY MATERIAL PLACEMENT (TYP).
5. PLACE STREAMBED BOULDERS, COBBLES, AND SEDIMENT IN DISTURBED CHANNEL AREAS.
6. INSTALL HISTORICAL / INFORMATIONAL INTERPRETIVE SIGN, PER INPUT FROM THE NEIGHBORHOOD HOMEOWNER ASSOCIATIONS.
7. APPROXIMATE LOCATION OF EXISTING RESIDENTIAL BRICK WALL AND VEGETATION. ADDITIONAL SURVEY AND INVESTIGATION TO BE CONDUCTED TO DETERMINE LOCATION AND PROTECTION MEASURES.
8. PROPOSED LANDSCAPE WALL, 4'-0" MAX HEIGHT, ADDITIONAL SURVEY AND INVESTIGATION TO BE CONDUCTED.

PLANT CANDIDATE LIST

APPROXIMATE PLANTING AREA (5,210 SF)	
TREES (2 GALLON / 12 FT O.C. SPACING)	QTY
FRAXINUS LATIFOLIA / OREGON ASH	7
PICEA SITCHENSIS / SITKA SPRUCE	7
RHAMNUS PURSHIANA / CASCARA	7
SALIX LASIANDRA / PACIFIC WILLOW	7
THUJA PLICATA / WESTERN REDCEDAR	7
TOTAL	35
SHRUBS (1 GALLON / 4 FT O.C. SPACING)	
ACER CIRCINATUM / VINE MAPLE	28
AMELANCHIER ALNIFOLIA / SERVICEBERRY	28
CORNUS SERICEA / RED-OSIER DOGWOOD	28
MYRICA CALIFORNICA / PACIFIC WAX MYRTLE	28
PHYSOCARPUS CAPITATUS / PACIFIC NINEBARK	28
RIBES SANGUINEUM / RED-FLOWERING CURRANT	28
ROSA NUTKANANA / NOOTKA ROSE	28
ROSA PISOCARPA / SWAMP ROSE	28
RUBUS SPECTABILIS / SALMONBERRY	28
SPIRAEA BETULIFOLIA / BIRCH-LEAF SPIREA	28
SYMPHORICARPOS ALBUS / SNOWBERRY	28
VACCINIUM OVATUM / EVERGREEN HUCKLEBERRY	28
TOTAL	336
GROUNDCOVERS (1 GALLON / 24 IN O.C. SPACING)	
CAMASSIA QUAMASH / CAMAS	112
CAREX OBNUPTA / SLOUGH SEDGE	112
DESCHAMPSIA CESPITOSA / TUFTED HAIRGRASS	112
DICENTRA FORMOSA / BLEEDING HEART	112
FESTUCA IDAHOENSIS / ROEMER'S FESCUE	112
MAHONIA NERVOUSA / LOW OREGON-GRAPE	112
POLYSTICHUM MUNITUM / SWORD FERN	112
SCIRPUS MICROCARPUS / SMALL-FRUITED BULRUSH	112
SEDUM OREGANUM / OREGON STONECROP	112
VANCOUVERIA HEXANDRA / INSIDE-OUT FLOWER	112
TOTAL	1,120
TOTAL	1,491

NO. DATE BY REVISION

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 PROJECT LOCATION: WOODVILLE WA, 98077
 TWC 221032

PROPOSED SITE & RESTORATION PLAN

DATE: 7/17/2023
 PLAN NUMBER:

C04
 SHEET 5 OF 5

PROJECT MANAGER: ED, G. DESIGNED BY: J.L. G.J. DRAWN BY: J.L. G.J. CHECKED BY: J.L. G.J.