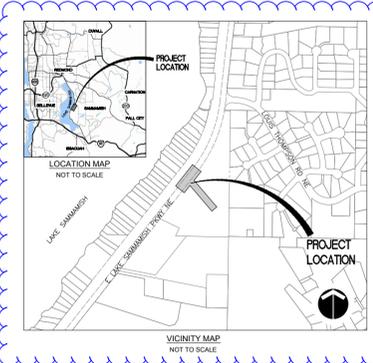


CITY OF SAMMAMISH

CITY OF SAMMAMISH EBRIGHT CREEK FISH PASSAGE

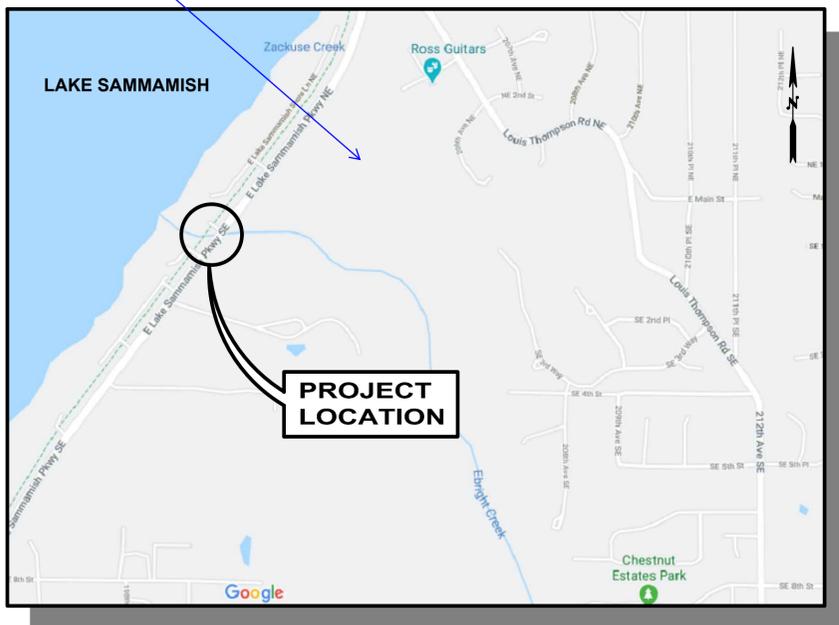


Remove duplicate

Label and Name pages of the PDF file to match Sheet number and name for easier electronic navigation.

Add project vicinity in the region. Improve legibility of road names.

May need to include Zayo and Verizon (Fiber backbones)



VICINITY MAP
N.T.S.

UTILITY COORDINATION CONTACTS:

- UTILITIES:**
- EASTSIDE FIRE & RESCUE (425)392-3433
 - SAMMAMISH PLATEAU WATER (425)392-6256
 - COMCAST (425)263-5353
 - FRONTIER (425)261-6342
 - PUGET SOUND ENERGY (GAS) (425)449-7410
 - PUGET SOUND ENERGY (POWER) (425)457-4524
 - CENTURY LINK (206)461-1402

SURVEYOR:

DUANE HARTMAN & ASSOCIATES, INC.
16928 WOODINVILLE-REDMOND ROAD, B-107
WOODENVILLE, WASHINGTON 98072

(425)483-4650

ENGINEERING:

OSBORN CONSULTING, INC.
LAURA RUPPERT, PE
1800 112TH AVE. NE, SUITE 220E
BELLEVUE, WA 98004
(425) 451-4009

DATUM:

HORIZONTAL DATUM: WASHINGTON STATE COORDINATE SYSTEM, NORTH ZONE NAD83(91), US FEET UTILIZING RTK GPS FIELD PROCEDURES WITH A COMBINED SCALE FACTOR OF (SC) 0.99996835. RXTENDED TO SITE FROM WSDOT CONTROL POINT #38611.

VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88), US FEET. AS EXTENDED TO THE SITE VIA TRIMBLE RTKGPS TECHNIQUES.

CITY OF SAMMAMISH:

PROJECT MANAGER
STEPHANIE SULLIVAN, PE, M. ASCE (425)295-0560

Add City of Sammamish Council info (Mayor, Deputy Mayor), Interim City Manager, Public Works Director, City Engineer

SHEET INDEX

| 30% | SHEET # | SHEET TITLE |
|-----|---------|--|
| x | 1 | COVER SHEET, VICINITY MAP, AND SHEET INDEX |
| x | 2 | LEGEND, GENERAL NOTES AND ABBREVIATIONS |
| x | 3 | EXISTING SURVEY CONDITIONS |
| | 4 | SURVEY CONTROL AND EASEMENT PLAN |
| | 5 | DETOUR PLAN |
| x | 6 | TESC AND DEMO PLAN |
| | 7 | TESC DETAILS |
| x | 8 | STREAM BYPASS PLAN |
| | 9 | STREAM BYPASS DETAILS |
| | 10 | CULVERT STRUCTURAL NOTES |
| x | 11 | CULVERT LAYOUT |
| x | 12 | STREAM CHANNEL GRADING PLAN AND PROFILE |
| x | 13 | STREAM CHANNEL TYPICAL SECTIONS AND DETAILS |
| x | 14 | ROADWAY PLAN AND PROFILE |
| x | 15 | ROADWAY TYPICAL SECTION AND DETAILS |
| x | 16 | GUARDRAIL AND CHANNELIZATION PLAN |
| | 17 | CULVERT RAIL DETAILS |
| | 18 | UTILITY RELOCATION PLAN AND PROFILE TEMPORARY UTILITY BYPASS |
| x | 19 | STREAM RESTORATION PLAN |
| x | 20 | STREAM RESTORATION NOTES |
| | 21 | PLANTING DETAILS |

THE WATERSHED COMPANY
750 Sixth Street South
Kirkland WA 98033
p 425.822.5242
www.watershedco.com
Science & Design

DCG David Consulting Group, Inc.
9706 4th Ave NE, Suite 300
www.dcgengr.com

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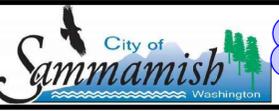


Add approval box to include City PM, City Engineer, and PW Director

Add City address

DESIGNED BY MW
DRAWN BY JJ
CHECKED BY LR
OSBORN CONSULTING INCORPORATED
Osborn Consulting, Inc.
Bellevue | Seattle | Spokane
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EBRIGHT CREEK FISH PASSAGE
CITY OF SAMMAMISH
COVERSHEET

| | | | |
|------------|---------------|-------|------------|
| JOB# / DWG | 10-190038 | DATE | 03/13/2020 |
| SCALE | H: N/A V: N/A | SHEET | 1 of 21 |

FILE NAME: C:\PW_LOC\WORKINGDIR\OSBORNCONSULTING-PW-BENTLEY.COM_OSBORNCONSULTING-PW-01\MAGGIE WILBANKS, EIT\DWG07813\10-190038_CVR.DWG
PLOT TIME: 3/13/2020 2:41 PM
USER NAME: MAGGIE WILBANKS, EIT

FILE NAME: C:\PW_OCI_WORKINGDIR\OSBORNCONSULTING-PW-BENTLEY.COM_OSBORNCONSULTING-PW-01\MAGGIE WILBANKS, EIT\DWG07813\10-190038_CVR.DWG
 PLOT TIME: 3/13/2020 2:41 PM
 USER NAME: MAGGIE WILBANKS, EIT

LEGEND:

EXISTING

| | |
|-----------------------------------|--|
| POWER POLE | |
| CONIFER TREE | |
| DECIDUOUS TREE | |
| DHA SURVEY CONTROL | |
| GUY ANCHOR | |
| VALVE | |
| WATER METER | |
| POWER VAULT | |
| FIRE HYDRANT | |
| LIGHT POLE | |
| CULVERT | |
| CONCRETE BOLLARD | |
| MAIL BOX | |
| GAS VALVE | |
| OHW/WETLAND FLAG | |
| BFW FLAG | |
| SITE BENCHMARK | |
| STAFF GAUGE | |
| ASPHALT ROAD | |
| UNDERGROUND SEWER LINE | |
| WATER LINE | |
| UNDERGROUND GAS LINE | |
| OVERHEAD POWER AND TELEPHONE LINE | |
| OVERHEAD POWER LINE | |
| GRAVEL ROAD | |
| FENCE LINE | |

ABBREVIATIONS:

| | |
|---------|----------------------------|
| ADT | AVERAGE DAILY TRAFFIC |
| APPROX. | APPROXIMATE, APPROXIMATELY |
| BMP | BEST MANAGEMENT PRACTICE |
| BW | BOTTOM OF WALL |
| CFS | CUBIC FEET PER SECOND |
| CHNL | CHANNEL |
| CL | CENTERLINE |
| CONC | CONCRETE |
| CMP | CORRUGATED METAL PIPE |
| CTR | CENTER |
| CY | CUBIC YARDS |
| DI | DUCTILE IRON |
| DIA | DIAMETER |
| E | EAST, EASTING |
| ELEV | ELEVATION |
| FLEX | FLEXIBLE |
| FT | FOOT, FEET |
| HPA | HYDRAULIC APPROVAL |
| HVF | HIGH VISIBILITY FENCE |
| IE | INVERT ELEVATION |
| LCL | LOCAL LOW POINT |
| MAX | MAXIMUM |
| MPH | MILES PER HOUR |
| MON | MONUMENT |
| N | NORTH, NORTHING |
| N.T.S. | NOT TO SCALE |
| OHWM | ORDINARY HIGH WATER MARK |
| RJ | RESTRAINED JOINT |
| ROW | RIGHT OF WAY |
| RXR | RAILROAD |
| S | SOUTH |
| SF | SQUARE FEET |
| STA. | STATION |
| SSMH | SANITARY SEWER MANHOLE |
| TBM | TEMPORARY BENCHMARK |
| TW | TOP OF WALL |
| TYP | TYPICAL |
| UG | UNDERGROUND |
| W | WEST |
| XFMR | TRANSFORMER |

EXISTING ABBREVIATIONS

| | |
|-------|---------------------------|
| WV | WATER VALVE |
| PRD | PER RECORD DRAWING |
| CONC | CONCRETE |
| PP/UG | POWER POLE W/ UNDERGROUND |
| CAB | CABINET |
| RCC | REBAR/ CONTROL CAP |

TREES

| | |
|-----|------------|
| A | ALDER |
| F | FIR |
| W | WILLOW |
| C | CEDAR |
| DEC | DECIDUOUS |
| CON | CONIFER |
| HEM | HEMLOCK |
| CWD | COTTONWOOD |

PROJECT GENERAL NOTES:

1. PROTECTION OF THE ENVIRONMENT: NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATER, OR ALLOW PARTICULATE EMISSIONS TO ENTER THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL FROM THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.
2. CONTRACTOR SHALL VERIFY LOCATION AND DEPTHS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.

Add City Standard Plan Notes, as applicable, see attachment here.

TESC GENERAL NOTES:

1. TESC MEASURES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL FIELD LOCATE TO ACCOMMODATE SITE CONDITIONS AND WORK SCHEDULE.
2. THE TEMPORARY EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE PLANS AND AS DIRECTED BY THE ENGINEER. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING ARE COMPLETED, AND SITE IS STABILIZED. SEDIMENT LADEN WATER SHALL NOT ENTER THE NATURAL DRAINAGE SYSTEMS.
3. TEMPORARY SILT FENCE SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL, AND AT LEAST DAILY DURING PROLONGED RAINFALL. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED WATTLES, END RUNS, AND UNDER-CUTTING BENEATH WATTLES. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
4. ALL VEGETATION WITHIN CLEARING AND GRUBBING LIMITS SHALL BE REMOVED UNLESS NOTED OTHERWISE. ALL VEGETATION OUTSIDE DESIGNATED LIMITS SHALL REMAIN UNDISTURBED.
5. ALL CRITICAL AREA BUFFERS SHALL BE STAKED PRIOR TO CONSTRUCTION. LIMITS OF DISTURBANCE TO BE STAKED. ANY DISTURBANCE INSIDE CRITICAL AREA BUFFER SHALL BE RESTORED PER PLANTING SHEET XX.
6. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF SAMMAMISH TO NOTIFY, FACILITATE AND MAINTAIN ACCESS TO ACCOMMODATE WORK OUTSIDE OF THE RIGHT-OF-WAY WITH PROPERTY OWNERS.
7. ALL STOCKPILES ARE TO BE LOCATED IN SAFE AREAS AND PROTECTED FROM EROSION BY MECHANICAL OR VEGETATIVE MEANS.
8. ALL EXPOSED AND UNWORKED SOILS SHALL BE STABILIZED BY SEEDING, MULCHING, MATTING OR PLASTIC COVERING. FROM OCT. 1 TO APRIL 30 NO SOILS SHALL REMAIN UNSTABILIZED FOR MORE THAN 2 DAYS. FROM MAY 1 TO SEPT. 30, NO SOILS SHALL REMAIN UNSTABILIZED FOR MORE THAN 7 DAYS.
9. ALL PROPERTIES ADJACENT TO THE PROJECT SHALL BE PROTECTED FROM SEDIMENT DEPOSIT.
10. ALL POLLUTANTS OTHER THAN SEDIMENTS THAT OCCUR ON-SITE DURING CONSTRUCTION SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORM WATER. SEE DEPARTMENT OF ECOLOGY STORM WATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON, 2019, VOLUME II CHAPTER 2.
11. SEDIMENTS TRANSPORTED ONTO A ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR SWEEPING AND BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.
12. REMOVE TESC AND RETURN EROSION CONTROL AREAS TO ORIGINAL GROUND CONDITIONS UPON COMPLETION.

Add Construction Sequence

30% SUBMITTAL



| | |
|-------------|----|
| DESIGNED BY | MW |
| DRAWN BY | JJ |
| CHECKED BY | LR |



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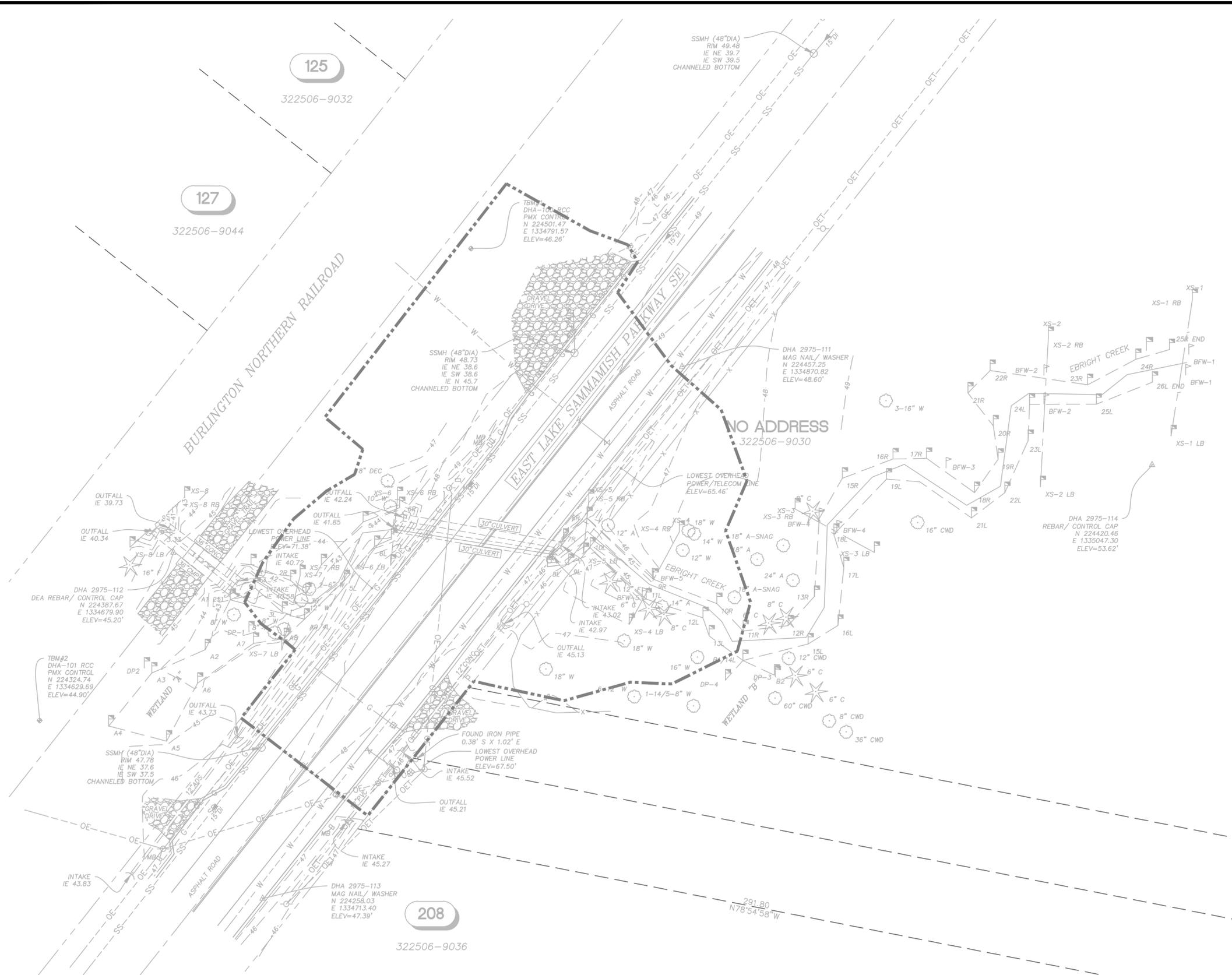
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EBRIGHT CREEK FISH PASSAGE
 CITY OF SAMMAMISH
 GENERAL NOTES AND LEGEND

| | | | |
|------------|---------------|-------|------------|
| JOB# / DWG | 10-190038 | DATE | 03/13/2020 |
| SCALE | H: N/A v: N/A | SHEET | 2 of 21 |

FILE NAME: C:\PW_LOC\WORKINGDIR\OSBORNCONSULTING-PW.BENTLEY.COM\OSBORNCONSULTING-PW-01\MAGGIE WILBANKS, EIT\DWG07813\10-190038_SV01.DWG
 PLOT TIME: 3/13/2020 2:41 PM
 USER NAME: MAGGIE WILBANKS, EIT



SURVEY CONTROL GENERAL NOTES:

BENCHMARK:
 WSDOT 38617 - CONCRETE MONUMENT WITH 2" BRASS CAP, DOWN 0.5' IN CASE AT CUL-DE-SAC MONUMENT IN 210TH PLACE.
 NAVD88 ELEVATION = 362.109'

TBM#1
 EXISTING REBAR AND CONTROL CAP "PMX 1042" LOCATED ON EAST SIDE OF EAST LAKE SAMMAMISH TRAIL, 75'± EAST OF HOUSE #125.
 NAVD88 ELEVATION = 46.26'

TBM#2
 EXISTING REBAR AND CONTROL PMX CAP LOCATED ON THE WEST SIDE OF EAST LAKE SAMMAMISH TRAIL, 240'± SOUTHERLY FROM TBM#1.
 NAVD88 ELEVATION = 44.90'

CONTOUR INTERVAL: (1') ONE FOOT CONTOURS

INSTRUMENT USED: THE PRIMARY MEASUREMENT EQUIPMENT UTILIZED IN THE PERFORMANCE OF THIS SURVEY WAS A LEICA MS-60 ELECTRONIC TOTAL STATION, SN# 624750.

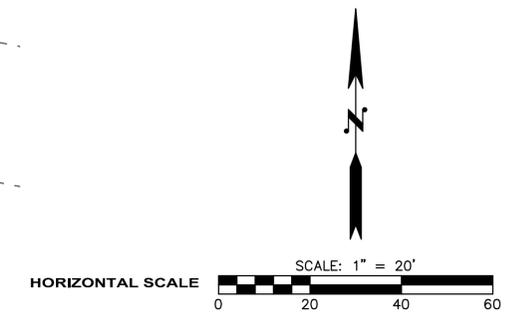
UTILITIES MAPPING:
 ALL EXISTING UTILITIES SHOWN HEREIN ARE TO BE VERIFIED HORIZONTALLY AND VERTICALLY PRIOR TO ANY CONSTRUCTION. ALL EXISTING FEATURES INCLUDING BURIED UTILITIES ARE SHOWN AS INDICATED BY RECORD LOCATION OR FIELD TIED AS A RESULT OF A UTILITY PAINT-OUT DURING THE COURSE OF THE FIELD SURVEY. DUANE HARTMAN & ASSOCIATES, INC. (DHA) ASSUMES NO LIABILITY FOR THE ACCURACY OF THE RECORD INFORMATION AND/OR THE UTILITY PAINT-OUT. FOR THE FINAL LOCATION OF THE EXISTING UTILITIES IN AREAS CRITICAL TO CONSTRUCTION, CONTACT THE UTILITY OWNER/AGENCY AND UTILITIES UNDERGROUND CENTER (800/424-5555).

TOPOGRAPHIC MAPPING:
 THE MAP SHOWN HEREON IS THE RESULT OF A TOPOGRAPHIC SURVEY BY DUANE HARTMAN ASSOCIATES, INC. (DHA) COMPLETED ON DECEMBER 20, 2019. DHA ASSUMES NO LIABILITY, BEYOND SAID DATE, FOR ANY FUTURE SURFACE FEATURE MODIFICATIONS OR CONSTRUCTION ACTIVITIES THAT MAY OCCUR WITHIN OR ADJOINING THE PERIMETER OF THIS SURVEY. CONTACT DHA (425/483-5355) FOR SITE UPDATES AND VERIFICATIONS.

PROPERTY AND RIGHT OF WAY LINES:
 LINES OF OWNERSHIP SHOWN HEREON ARE BASED UPON KING COUNTY SECTION BREAKDOWN MONUMENT POSITIONS EXPRESSED IN NAD83(1991) HORIZONTAL COORDINATES.

RECORD OF SURVEY RECORDED UNDER KING COUNTY RECORDING NUMBER 20000605900017 WAS REFERENCED AND TIED TO THE KING COUNTY SECTION BREAKDOWN AND SHOWN HEREON.

PROPERTY/RIGHT OF WAY LINES AND CORNERS SHOWN HEREON REPORTED TO A HORIZONTAL ACCURACY OF ±1.0'.



Know what's below.
 Call before you dig.

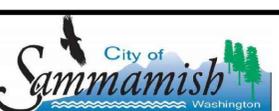
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 MW
 DRAWN BY
 JJ
 CHECKED BY
 LR

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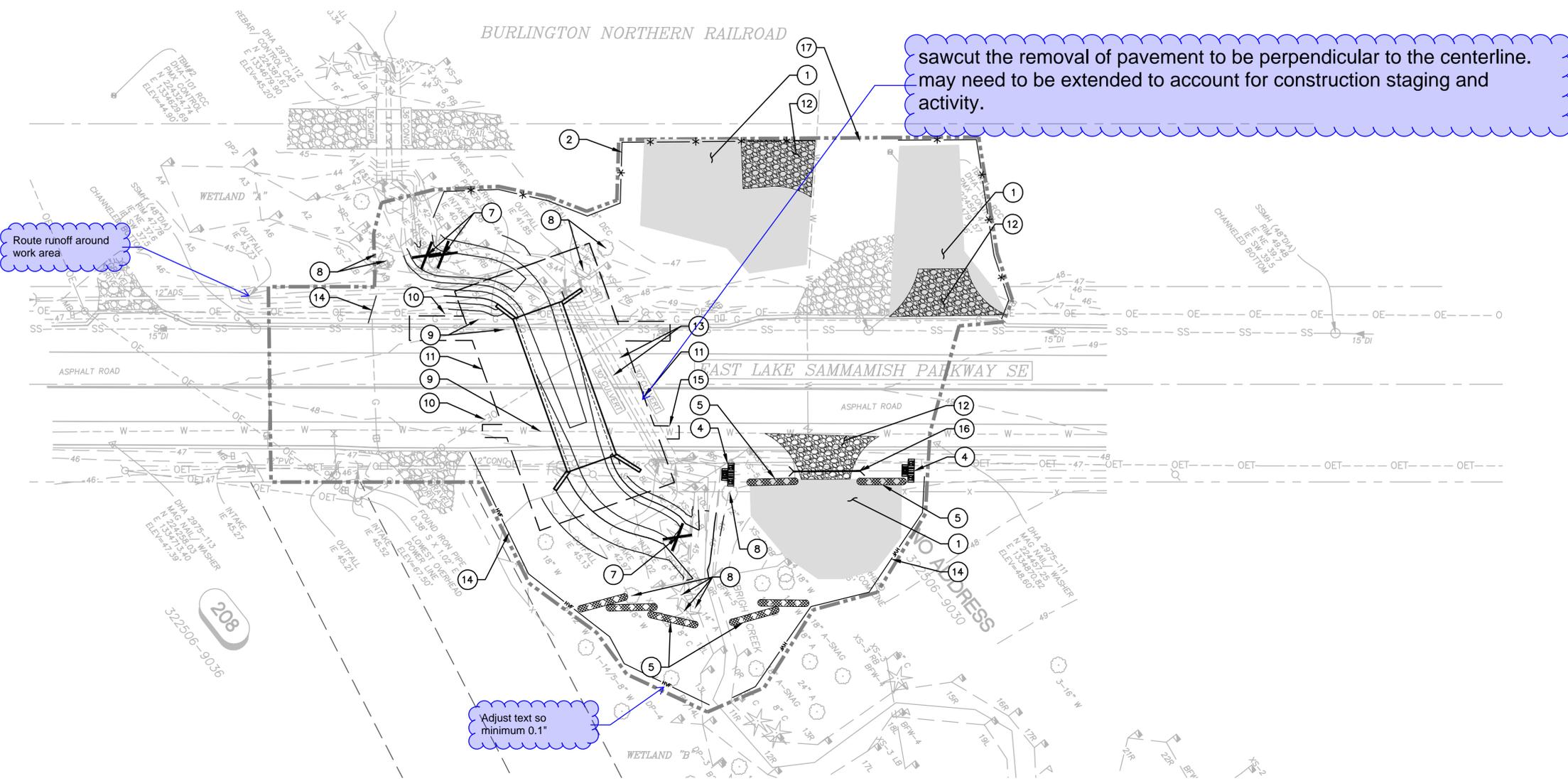
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EBRIGHT CREEK FISH PASSAGE
 CITY OF SAMMAMISH
 EXISTING SURVEY CONDITIONS

| | | | |
|------------|------------------|-------|------------|
| JOB# / DWG | 10-190038 | DATE | 03/13/2020 |
| SCALE | h: 1"=20' v: N/A | SHEET | 3 of 21 |

FILE NAME: C:\PW_LOC\WORKINGDIR\OSBORNCONSULTING-PW-BENTLEY.COM\OSBORNCONSULTING-PW-01\MAGGIE WILBANKS, EIT\DWG07813\10-190038_EC01.DWG
 PLOT TIME: 3/13/2020 2:42 PM
 USER NAME: MAGGIE WILBANKS, EIT



LEGEND

- CONSTRUCTION LIMITS
- *-* HIGH VISIBILITY SILT FENCE
- TREE PROTECTION
- .-.- INTERCEPTOR DIKE AND SWALE
- HVF HIGH VISIBILITY FENCE
- CG CLEARING LIMITS
- FM FORCE MAIN
- TEMPORARY CULVERT
- X-X TEMPORARY SECURITY FENCE
- ▨ STABILIZED CONSTRUCTION ENTRANCE
- INLET PROTECTION
- ~ EXISTING DRAINAGE PATH
- ⊙ PUMP
- RISER/WIER
- ▣ STRAW BALE
- ▭ GRAVEL BAG
- X REMOVE TREE
- ▨ STRAW WATTLE/COMPOST SOCK

sawcut the removal of pavement to be perpendicular to the centerline. may need to be extended to account for construction staging and activity.

Route runoff around work area

Adjust text so minimum 0.1"

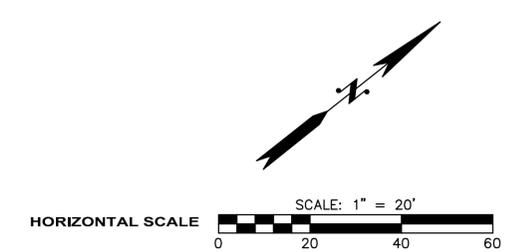
Add note regarding easements required.

Is this item represented in the figure above?

Note: Tree protection required if tree is within work area and replanting needed for trees removed. Follow Sammamish tree protection code SMC 21A.37.

TESC AND DEMOLITION NOTES:

- 1 POTENTIAL CONSTRUCTION STAGING AREA. LOCATION SHALL BE FIELD LOCATED AND APPROVED BY ENGINEER.
- 2 INSTALL HIGH VISIBILITY SILT FENCE PER WSDOT STD. PLAN I-30, 16-01.
- 3 INSTALL TEMPORARY GRAVEL BAG BERM.
- 4 INSTALL TEMPORARY STRAW BALE DAM.
- 5 INSTALL STRAW WATTLE PER WSDOT STD PLAN I-30.30-02, OR COMPOST STOCK PER STD PLAN I-30.40-02.
- 6 TEMPORARY STREAM BYPASS. SEE PLAN ON SHEET 8.
- 7 REMOVE EXISTING TREE. TREE TO BE USED AS NEEDED IN WOOD STRUCTURE CONSTRUCTION FOR STREAM RESTORATION.
- 8 PROTECT EXISTING TREE.
- 9 EXISTING UTILITY TO BE RELOCATED/ADJUSTED, SEE SHEET 18 FOR DETAILS.
- 10 PROTECT EXISTING UTILITY DURING CONSTRUCTION.
- 11 SAWCUT AND REMOVE EXISTING PAVEMENT, INCLUDING HMA PAVEMENT AND CONC. PANEL UNDERNEATH.
- 12 INSTALL STABILIZED CONSTRUCTION ENTRANCE PER WSDOT STD PLAN I-80.10-02.
- 13 REMOVE EXISTING CULVERTS, 30-IN DIAMETER, 60-FT LENGTH.
- 14 INSTALL HIGH VISIBILITY FENCE PER WSDOT STD I-10.10-01.
- 15 EXTENTS OF EXCAVATION FOR CULVERT REMOVAL AND INSTALLATION.
- 16 INSTALL TEMPORARY CULVERT UNDER CONSTRUCTION ACCESS ROAD.
- 17 MAINTAIN RESIDENTIAL ACCESS.



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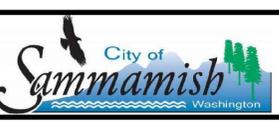


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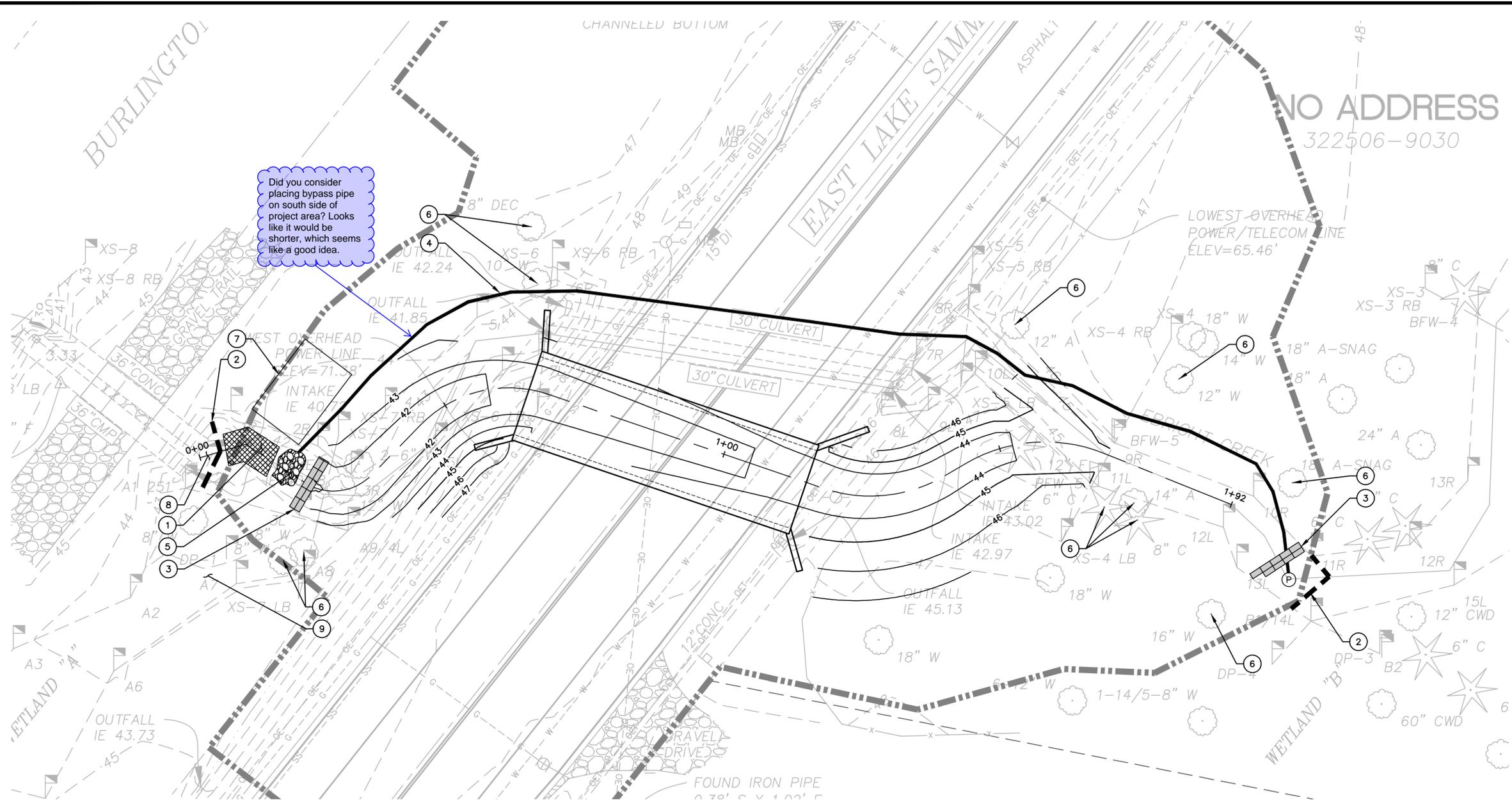
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EBRIGHT CREEK FISH PASSAGE
 CITY OF SAMMAMISH
 TESC AND DEMO PLAN

| | | | |
|------------|------------------|-------|------------|
| JOB# / DWG | 10-190038 | DATE | 03/13/2020 |
| SCALE | h: 1"=20' v: N/A | SHEET | 6 of 21 |

FILE NAME: C:\PW_LOC\WORKINGDIR\OSBORNCONSULTING-PW-BENTLEY.COM_OSBORNCONSULTING-PW-01\MAGGIE WILBANKS, EIT\DWG07813 VP_10-190038_SB01.DWG
 PLOT TIME: 3/13/2020 2:42 PM
 USER NAME: MAGGIE WILBANKS, EIT



Did you consider placing bypass pipe on south side of project area? Looks like it would be shorter, which seems like a good idea.

- LEGEND:**
- FISH SCREEN
 - BYPASS PUMP
 - BYPASS PIPING
 - GRAVEL BAG DAM
 - RIPRAP MAT
 - SEDIMENT MAT

Do we need to add profile of the bypass pipe?

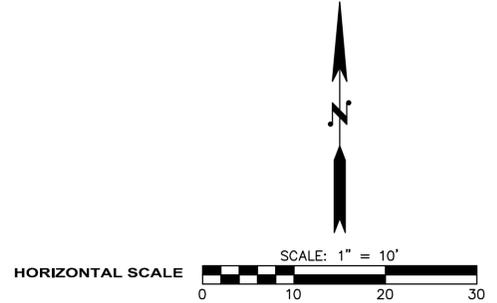
Can we utilize the existing culvert as the bypass?

TEMPORARY STREAM BYPASS GENERAL NOTES:

1. THE CONTRACTOR SHALL SUBMIT THE TEMPORARY BYPASS AND ISOLATION SYSTEM PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL. THE TEMPORARY BYPASS SYSTEM SHOWN ON PLAN IS SUGGESTED ONLY.
2. THE TEMPORARY BYPASS AND ISOLATION SYSTEM AND PLAN SHALL MEET ALL PERMIT REQUIREMENTS. CONTRACTOR SHALL REMOVE ALL TEMPORARY BYPASS MEASURES AFTER COMPLETION OF PROJECT.
3. THE TEMPORARY STREAM BYPASS SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTION.
4. PEAK FLOW RATES ANTICIPATED DURING THE PERIOD OF CONSTRUCTION COULD BE AS HIGH AS XX CFS. FLOW MAY BE HIGHER DURING HIGH RAINFALL EVENTS. CONTRACTOR SHALL BE PREPARED TO PROTECT WORK SITE DURING HIGHER FLOWS.
5. FISH EXCLUSION AND FISH REMOVAL SHALL BE PERFORMED BEFORE IN-WATER WORK IN ACCORDANCE WITH THE WASHINGTON DEPARTMENT OF FISH AND WILDLIFE HPA.
6. CONTRACTOR SHALL REMOVE AND WASTEHAUL EXISTING GRAVEL BAG BERM AFTER STREAM FLOWS HAVE BEEN RELOCATED INTO THE NEW CHANNEL.
7. NO GROUND DISTURBANCE (MECHANICAL EQUIPMENT) SHALL OCCUR OUTSIDE OF THE CLEARING AND GRADING LIMITS.
8. CONTRACTOR SHALL RETAIN ANY LARGE WOODY MATERIAL INSIDE THE CHANNEL REMOVED FOR CONSTRUCTION (DEFINED AS TREES OR TREE PARTS LARGER THAN 4-IN IN DIAMETER AND LONGER THAN 6-FT) AND REPLACE BELOW OHWM PRIOR TO COMPLETION OF THE PROJECT.

TEMPORARY STREAM BYPASS CONSTRUCTION NOTES:

1. INSTALL SEDIMENT MAT.
2. INSTALL FISH SCREEN.
3. INSTALL GRAVEL BAG BERM.
4. INSTALL 24-IN DIA. BYPASS PIPE. INSTALL GRAVEL BAGS ON/AROUND PIPE INLET TO STABILIZE.
5. INSTALL TEMPORARY RIPRAP MAT TO PREVENT EROSION AT BYPASS OUTFALL. ALL RIPRAP SHALL BE REMOVED WHEN CONSTRUCTION IS COMPLETE.
6. EXISTING TREE/VEGETATION TO REMAIN. PROTECT DURING CONSTRUCTION PER ECOLOGY BMP C101: PRESERVING NATURAL VEGETATION. TREE LIMBS MAY BE TRIMMED WITH APPROVAL FROM THE CITY'S ARBORIST.
7. FILTER BAG FOR DEWATERING AND SEDIMENT REMOVAL.
8. TURBIDITY MONITORING STATION. SEE CONTRACT SPECIFICATIONS FOR MONITORING REQUIREMENTS.
9. CONTRACTOR ACCESS TO PERFORM IN-STREAM WORK DOWNSTREAM OF CULVERT SHALL BE WITHIN THE STREAM CHANNEL. NO WETLAND DISTURBANCE SHALL OCCUR.



Know what's below.
Call before you dig.



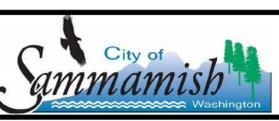
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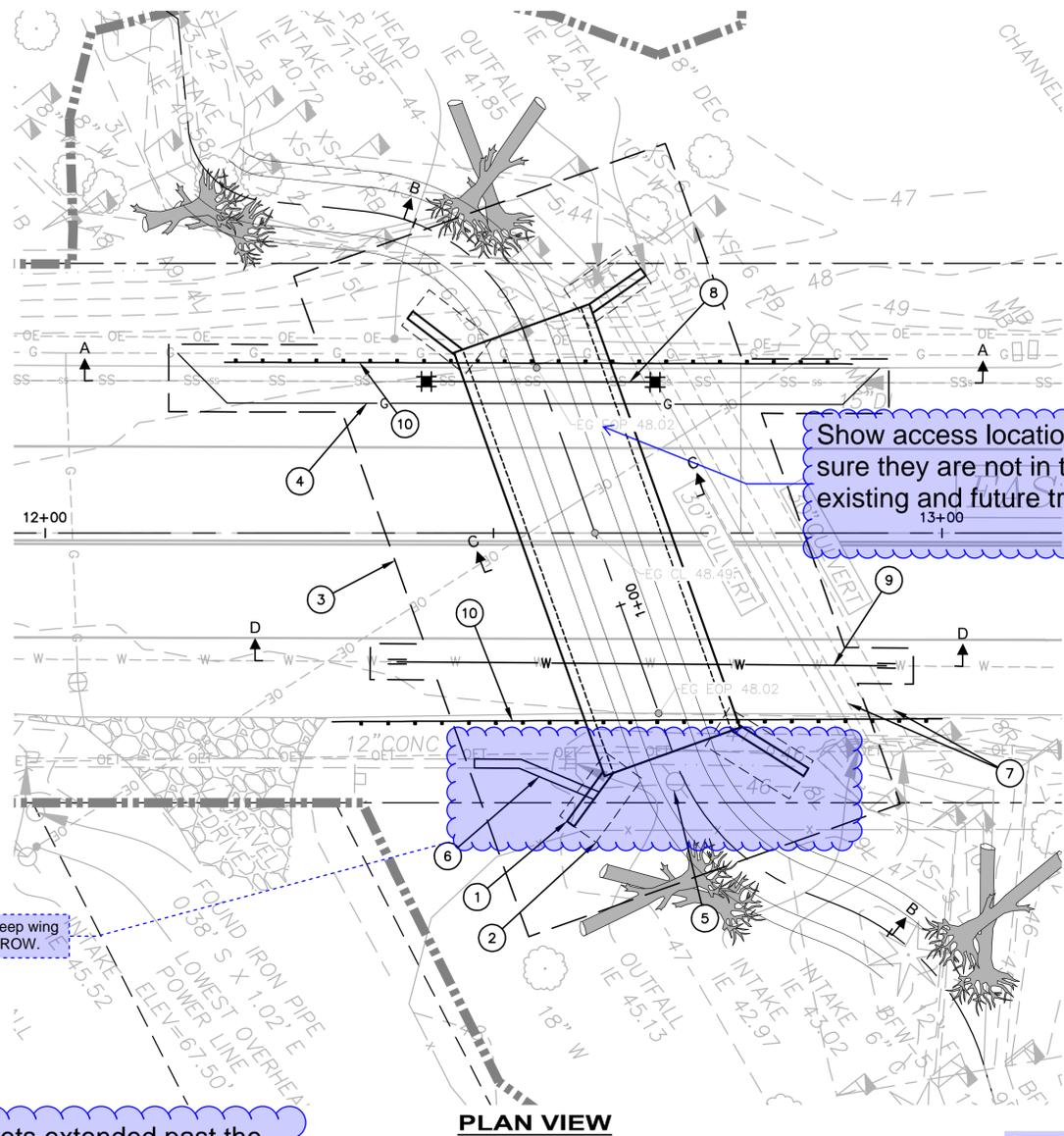
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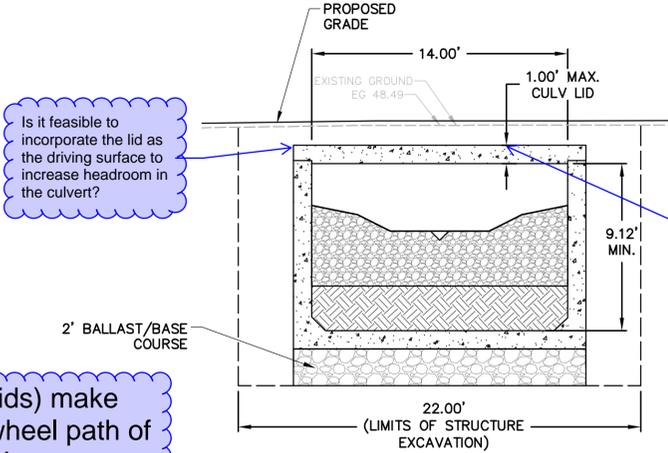
EBRIGHT CREEK FISH PASSAGE
 CITY OF SAMMAMISH
 STREAM BYPASS PLAN

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| JOB# / DWG | 10-190038 | DATE | 03/13/2020 |
| SCALE | h: 1"=10' v: N/A | SHEET | 8 of 21 |

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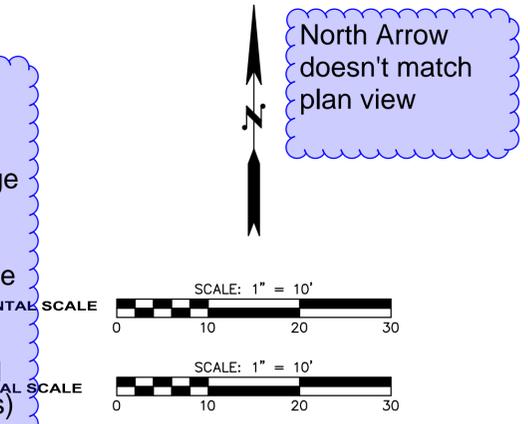


PLAN VIEW

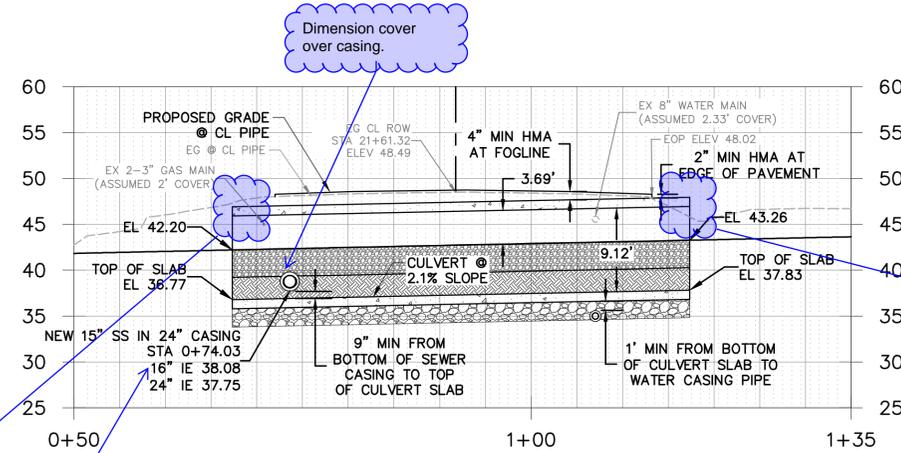


C-C CULVERT INSTALLATION
SCALE: 1"=5'

This may need to be thicker based on AASHTO Bridge Design. May need new proposed profile of roadway or riding surface box. (will need approach slabs)



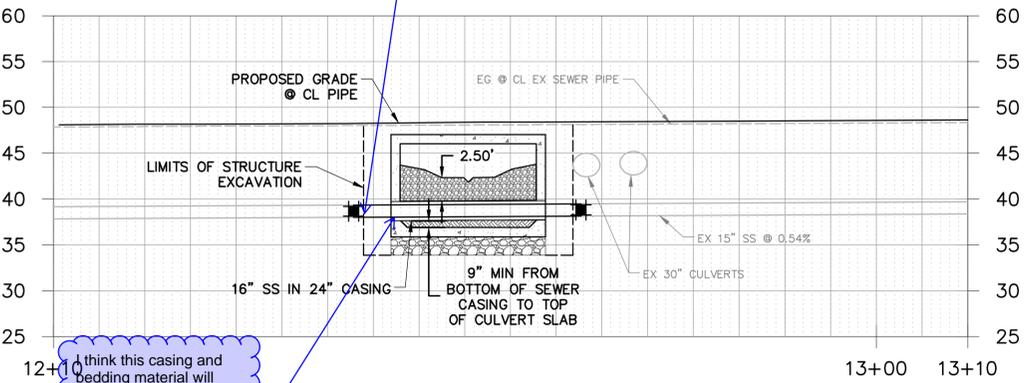
GENERAL NOTES:
1. xxx



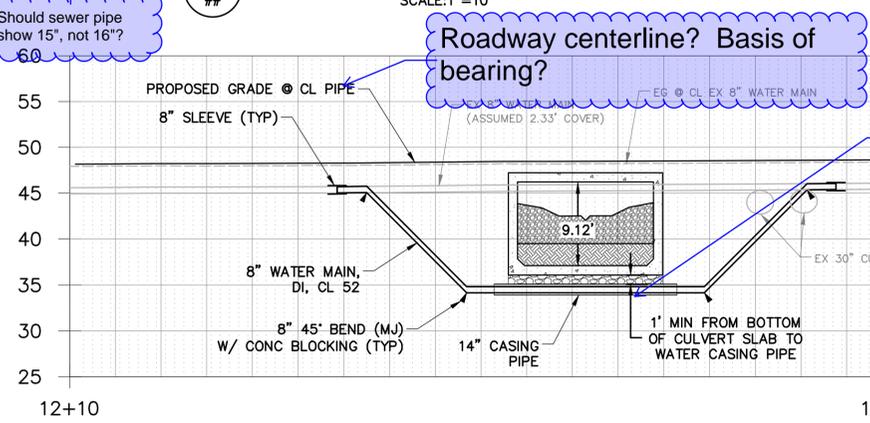
B-B EBRIGHT CREEK CENTERLINE PROFILE
SCALE: 1"=10'

- CONSTRUCTION NOTES:
- APPROXIMATE LOCATION OF WINGWALL (TYP)
 - APPROXIMATE LOCATION OF WINGWALL FOOTING (TYP)
 - APPROXIMATE EXCAVATION EXTENTS
 - RELOCATE GAS (BY OTHERS)
 - RELOCATE POLE (BY OTHERS)
 - CONNECT TO EXISTING 12" CULVERT AND DAYLIGHT THROUGH WINGWALL
 - ABANDON AND FILL EXISTING CULVERTS (2)
 - REMOVE AND REPLACE EXISTING 15" SANITARY SEWER
 - REMOVE AND RELOCATE EXISTING 8" WATER MAIN
 - NEW GUARDRAIL

Casing gets extended past the box enough to maintain.



A-A SEWER PROFILE
SCALE: 1"=10'



D-D WATER MAIN PROFILE
SCALE: 1"=10'

Verify with Sam Plat. may need restrained joints. Show thrust blocks and anchors.
It may be easier to keep existing elevation with casing, if a feasible option.



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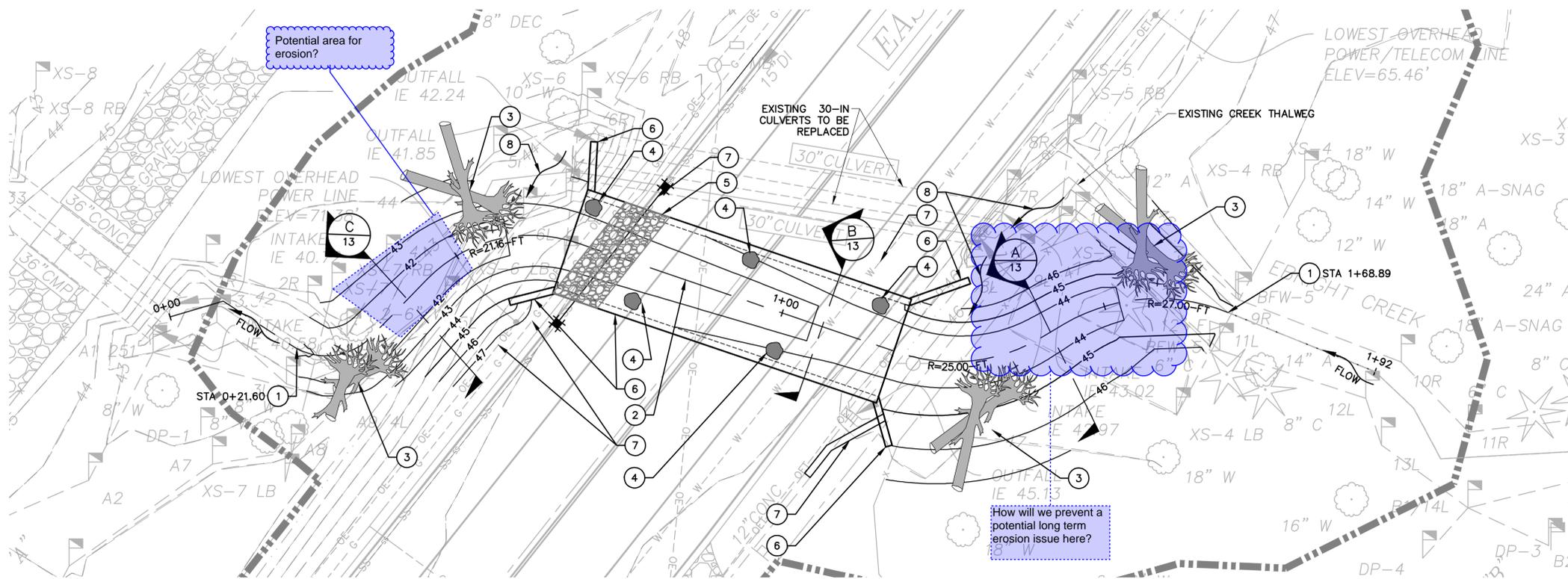
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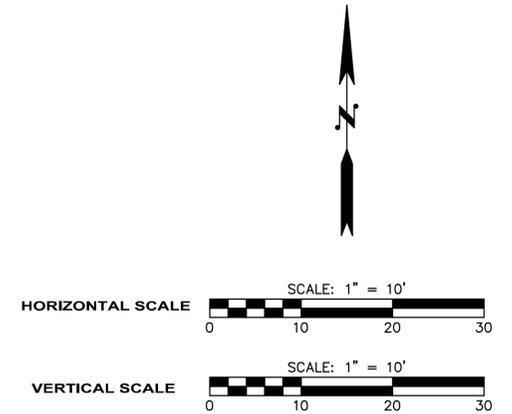
EBRIGHT CREEK FISH PASSAGE
 CITY OF SAMMAMISH
 CULVERT LAYOUT

| | |
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| JOB# / DWG 10-190038 | DATE 03/13/2020 |
| SCALE H: 1"=10' V: AS SHOWN | SHEET 11 of 21 |

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PLAN VIEW

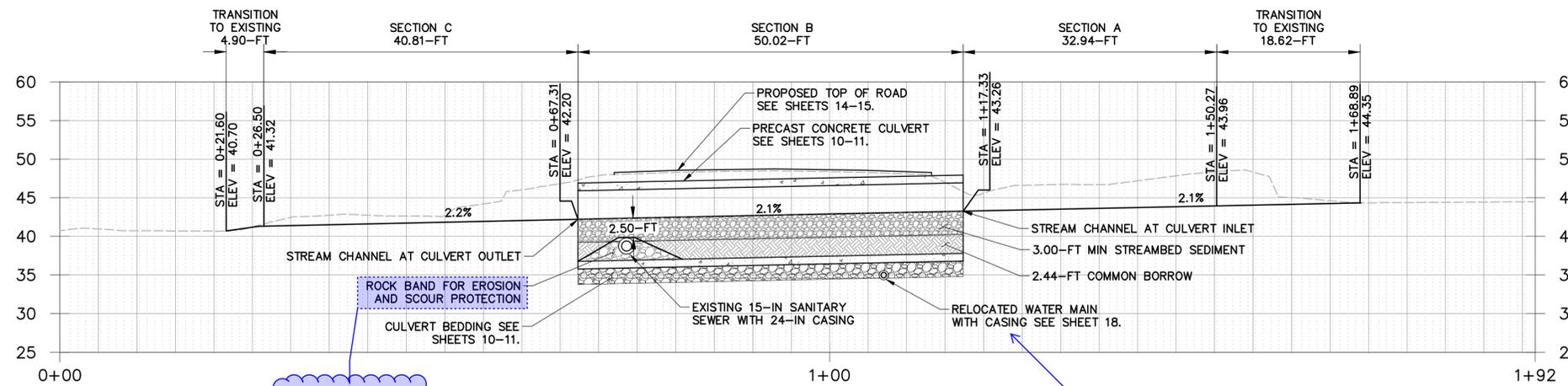


GENERAL NOTES:

1. LOCATION OF LOG STRUCTURES AND HABITAT BOULDERS SHOWN IN PLAN VIEW ARE APPROXIMATE. LOG STRUCTURES AND HABITAT BOULDERS ARE TO BE INSTALLED AS SPECIFIED BY ENGINEER IN THE FIELD.

CONSTRUCTION NOTES:

- ① TIE IN TO EXISTING EBRIGHT CREEK CENTERLINE.
- ② CONSTRUCT STREAM CHANNEL ALIGNMENT AND PROFILE AS SHOWN ON THIS SHEET AND TYPICAL CROSS-SECTION PER DETAILS ON SHEET 13.
- ③ INSTALL LARGE WOODY MATERIAL KEY PIECE.
- ④ INSTALL HABITAT BOULDERS.
- ⑤ INSTALL COARSE ROCK BAND.
- ⑥ INSTALL CULVERT AND WING WALLS SEE SHEETS 10-11.
- ⑦ SEE SHEET 18 FOR UTILITY IMPROVEMENTS.
- ⑧ PROVIDE POSITIVE DRAINAGE FROM ABANDONED CHANNEL TO PROPOSED CHANNEL.



PROFILE VIEW

If compacted to density, this seems like a reasonable way to protect the sewer from being exposed. Is there more we could do to prevent that possibility?

Is it possible to relocate and avoid casing the water? Let's discuss risks and costs of this.

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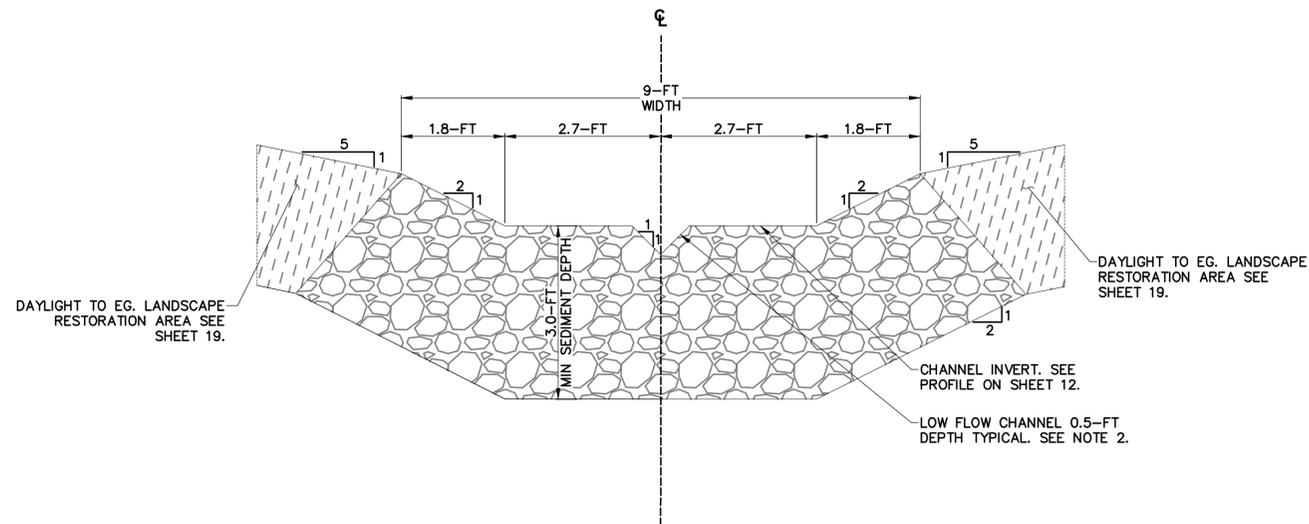
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EBRIGHT CREEK FISH PASSAGE
 CITY OF SAMMAMISH
 STREAM CHANNEL GRADING PLAN AND PROFILE

| | | | |
|------------|---------------------|-------|------------|
| JOB# / DWG | 10-190038 | DATE | 03/13/2020 |
| SCALE | H: 1"=10' V: 1"=10' | SHEET | 12 of 21 |

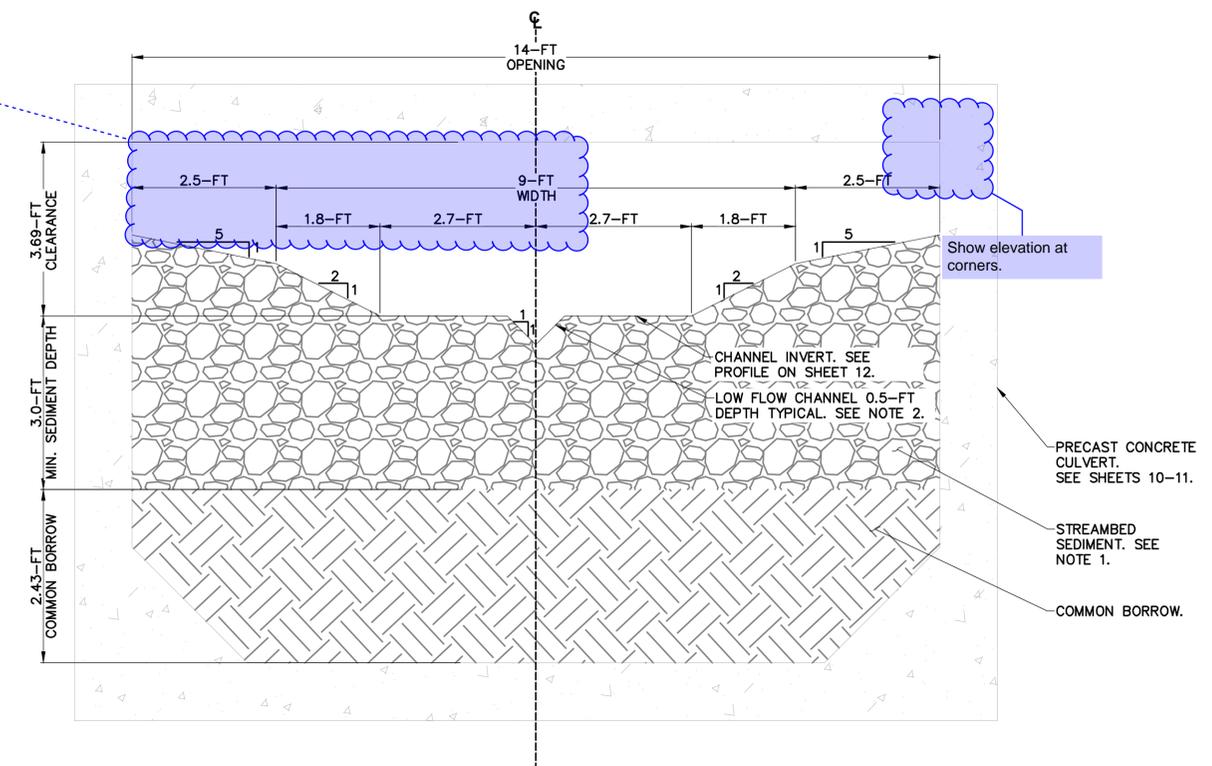
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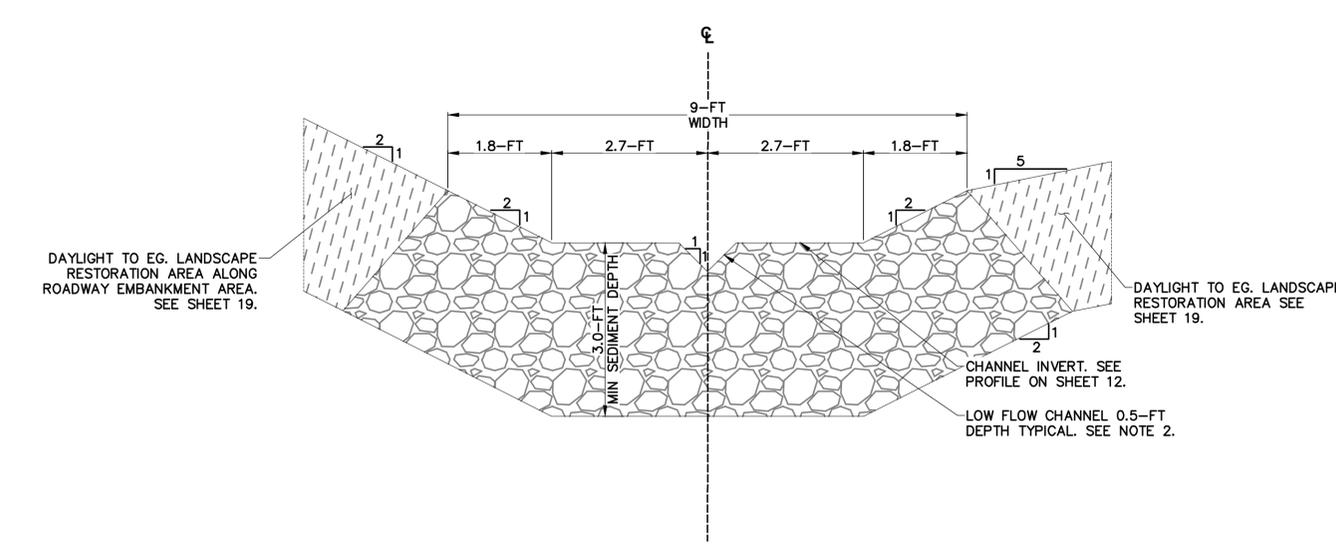
A UPSTREAM CHANNEL DETAIL
 12 N.T.S.

Consider armoring bends at channel inlet and outlet to prevent future erosion?

Maximize clearance from ground line to bottom of the top slab of the box culvert. Our experience with Zackuse shows that sediment transport/deposition into and through the box culvert can create maintenance problems for maintaining stream flows. Maximizing clearance will allow crews to enter box culvert to maintain if necessary.



B CULVERT SECTION DETAIL
 12 N.T.S.



C DOWNSTREAM CHANNEL DETAIL
 12 N.T.S.

- NOTES:**
1. STREAMBED SEDIMENT PER SPECIFICATION X.
 2. LOCATE LOW FLOW CHANNEL AT CENTER OF CHANNEL IN TANGENT SECTIONS AND AT A 1-FT OFFSET ON THE OUTSIDE OF BENDS WITH A SMOOTH TRANSITION.

Add a note on occasional placement of large boulders within the culvert, per Sheet 12.

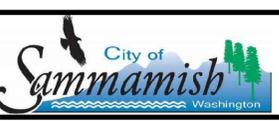


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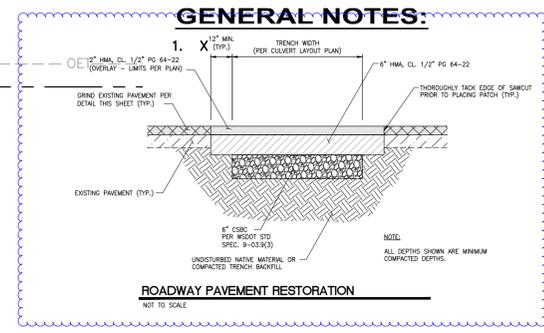
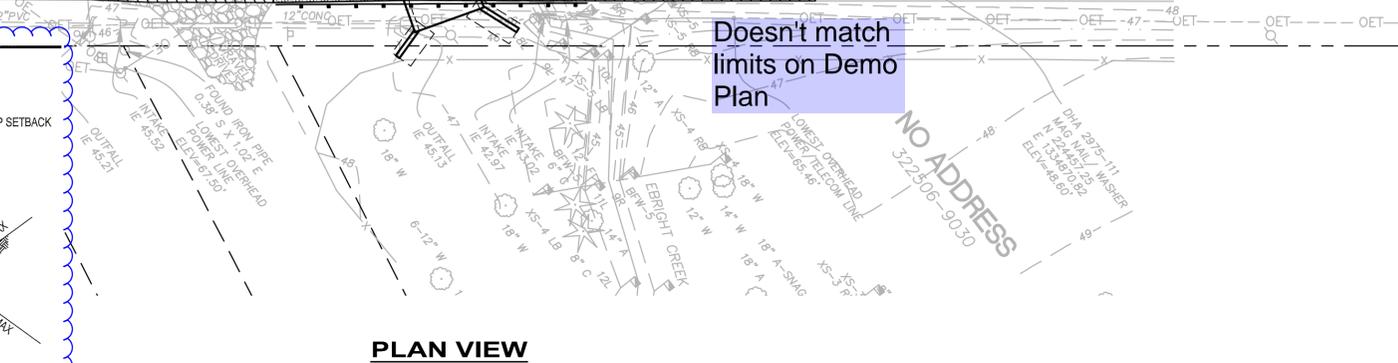
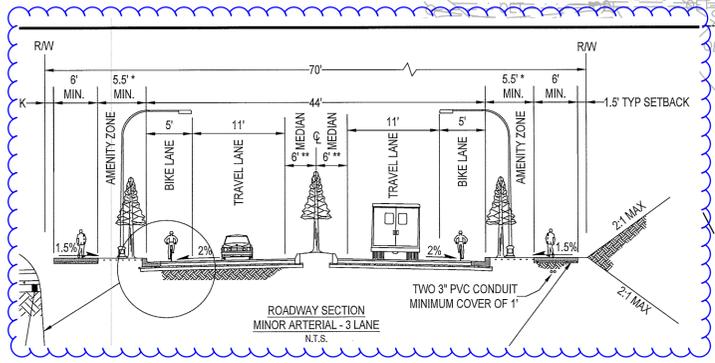
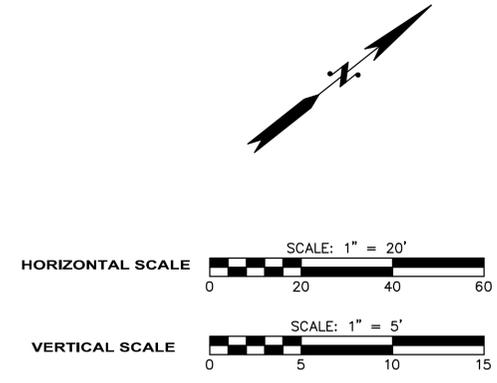
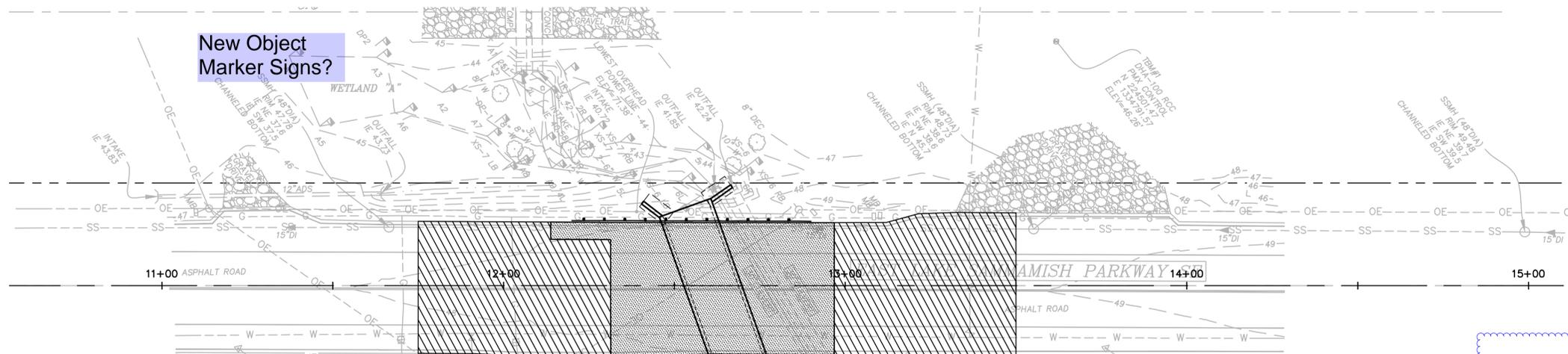
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EBRIGHT CREEK FISH PASSAGE
 CITY OF SAMMAMISH
 STREAM CHANNEL TYPICAL SECTIONS AND DETAILS

| | | | |
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| JOB# / DWG | 10-190038 | DATE | 03/13/2020 |
| SCALE | H: N/A V: N/A | SHEET | 13 of 21 |

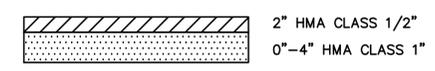
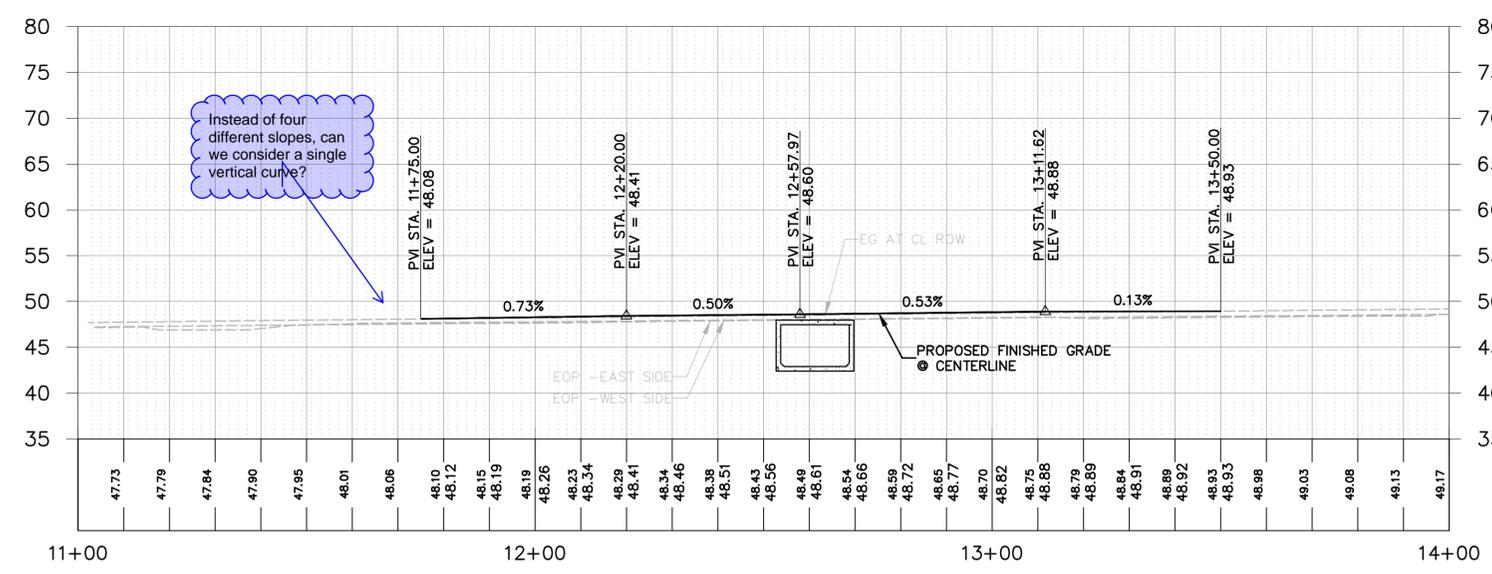
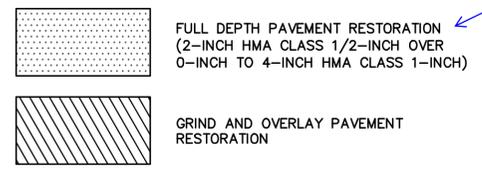
SEC. 32, T. 25 N, R. 6 E., W.M.



CONSTRUCTION NOTES:
 1. X
 1. X

Update full-depth restoration to match PW Standards for minor arterial.

PAVEMENT LEGEND:



PAVEMENT SECTION
NTS



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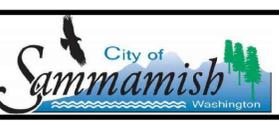
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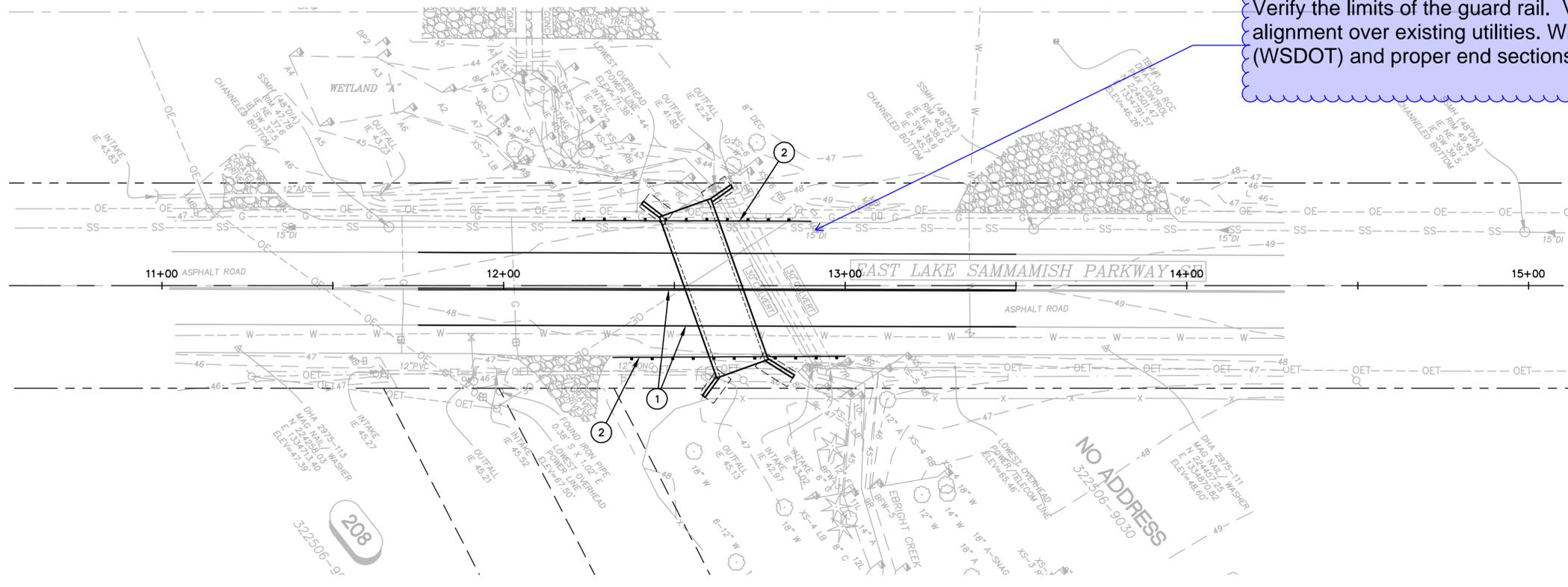


EBRIGHT CREEK FISH PASSAGE
 CITY OF SAMMAMISH
 ROADWAY PLAN AND PROFILE

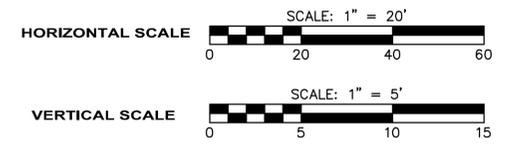
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| SCALE H: 1"=20' V: 1"=5' | SHEET 14 of 21 |

SEC. 32, T. 25 N, R. 6 E., W.M.

Verify the limits of the guard rail. Verify location of alignment over existing utilities. Will need details (WSDOT) and proper end sections.



PLAN VIEW



GENERAL NOTES:

- 1. X

CONSTRUCTION NOTES:

- 1. REPLACE DISTURBED PAINT MARKINGS IN KIND (TYP)
- 2. GUARDRAIL (TYP)



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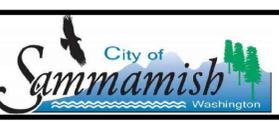


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EBRIGHT CREEK FISH PASSAGE
CITY OF SAMMAMISH
GUARDRAIL AND CHANNELIZATION PLAN

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| JOB# / DWG 10-190038 | DATE 03/13/2020 |
| SCALE H: 1"=20' V: N/A | SHEET 16 of 21 |



SITE PREPARATION NOTES:

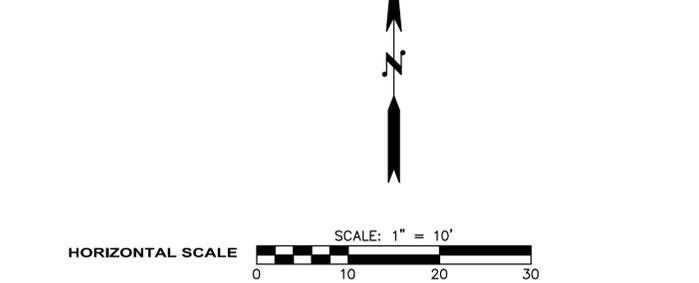
1. LANDSCAPE WITHIN PROJECT LIMITS SHALL BE RESOTRED TO EXISTING CONDITIONS OR BETTER.
2. SOILS IN PLANTING AREAS SHALL BE PREPARED PER BMP T5.13 POST CONSTRUCTION SOIL QUALITY AND DEPTH (STORMWATER MANUAL) EXCEPT ON TILL SOIL SLOPES GREATER THAN 33 PERCENT.
3. TREE PLACEMENT NEAR ROADS OR UTILITIES SHALL ADHERE TO CITY OF SAMMAMISH PUBLIC WORKS SETBACK REQUIREMENTS.
4. TREES, SHRUBS AND GROUNDCOVER SHALL ADHERE TO CITY OF SAMMAMISH PUBLIC WORKS SIZE AND SPACING REQUIREMENTS.
5. ALL RESTORATION PLANTING SHALL BE NATIVE SPECIES.

CONSTRUCTION NOTES:

- 1 COORDINATE BIOENGINEERING PLANTING WITH ENGINEER.
- 2 EXISTING GRAVEL DRIVEWAY NOT SURVEYED. VERIFY LIMITS IN FIELD. RETURN TO EXISTING CONDITION.

PLANT CANDIDATE LIST:

- UPLAND RESTORATION AREA:**
- TREES**
ACER MACROPHYLLUM / BIGLEAF MAPLE
PSUEDOTSUGA MENZIESII / DOUGLAS-FIR
RHAMNUS PURSHIANA / CASCARA
THUJA PLICATA / WESTERN RED CEDAR
- SHRUBS**
ACER CIRCINATUM / VINE MAPLE
CORYLUS CORNUTA VAR. CALIFORNICA / BEAKED HAZELNUT
OEMLARIA CERASIFORMIS / OSOBERRY
PHYSOCARPUS CAPITATUS / NINEBARK
RIBES SANGUINEUM / RED-FLOWERING CURRENT
RUBUS SPECTABILIS / SALMONBERRY
SAMBUCUS RACEMOSA / RED ELDERBERRY
SYMPHORICARPOS ALBUS / SNOWBERRY
- GROUNDCOVER**
POLYSTICHUM MUNITUM / SWORD FERN
- WETLAND RESTORATION AREA:**
- TREES**
FRAXINUS LATIFOLIA / OREGON ASH
PICEA SITCHENSIS / SITKA SPRUCE
SALIX LASIANDRA / PACIFIC WILLOW
SALIX SITCHENSIS / SITKA WILLOW
- SHRUBS**
CORNUS SERICEA / RED-OSIER DOGWOOD
RIBES BRACTEOSUM / STINK CURRANT
RIBES LACUSTRE / SWAMP GOOSEBERRY
- GROUNDCOVER**
ATHYRIUM FILIX-FEMINA / LADY FERN
- EMERGENT/BACKWATER RESTORATION AREA:**
- SHRUBS**
RIBES BRACTEOSUM / STINK CURRANT (ON BANKS)
- GROUNDCOVER**
ATHYRIUM FILIX-FEMINA / LADY FERN (ON BANKS)
CAREX OBNUPTA / SLOUGH SEDGE
SCIRPUS ACUTUS / HARD STEM BULRUSH
SCIRPUS MICROCARPUS / SMALL FRUITED BULRUSH
- RIPARIAN RESTORATION AREA:**
- LIVE STAKES:**
CORNUS SERICEA / RED-OSIER DOGWOOD
PHYSOCARPUS CAPITATUS / NINEBARK
SALIX SITCHENSIS / SITKA WILLOW



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EBRIGHT CREEK FISH PASSAGE
CITY OF SAMMAMISH
STREAM RESTORATION PLAN

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| JOB# / DWG | 10-1900338 | DATE | 03/13/2020 |
| SCALE | h: 1"=10' v: N/A | SHEET | 19 of 21 |

DRAFT RESTORATION NOTES:

Monitoring and Maintenance:

The project designer or other designated representative will conduct construction monitoring. Revegetation plans implemented as mitigation will be subject to verification and performance monitoring as indicated on the plans and permits. Planted vegetation is to be inspected annually during the late summer or fall for at least five years following the initial planting to determine if supplemental planting during the following dormant season, weeding, or other maintenance should be recommended. Vegetation will be maintained at least twice each year for the first five years after project completion.

The mitigation plan also includes provisions for post-construction monitoring and maintenance of the restored planting areas for three to five years following installation (depending on permitting requirements).

A performance monitoring protocol will be conducted over a period of at least 5 years following construction. Metrics and assessments to be used will include the number and configuration of in-stream and flood plain wood pieces (as changing during the monitoring period), percent cover by and diversity of native plants, and the presence and prevalence (% cover) of invasive plants.

Construction work sequence for wetland and buffer mitigation and enhancement will occur in the following sequential order:

1. Prepare the planting areas:
 - a. Buffer Restoration
 - a.1. Site preparation
 - a. remove gravel, garbage, and debris;
 - b. clear all Himalayan blackberry and other non-native vegetation from the planting area, making sure to remove the roots;
 - c. roto-till to de-compact soil and
 - d. incorporate two inches of compost into the buffer restoration area (within the buffer only).
 - d.1. All plant installation is recommended during the dormant season (October 15th – March 1st), for best survival.
 - b. Wetland Restoration
 - b.1. Stockpile excavated wetland soil:
 - b.1.1. Survey and mark the extent of the temporary wetland impact are per the approved mitigation plan.
 - b.1.2. Implement applicable Temporary Erosion and Sediment Control (TESC) plan protections.
 - b.1.3. Temporarily stockpile suitable wetland soils in the temporary impact area.
 - b.1.4. Distribute wetland soils over the graded portions of the wetland mitigation area. Backfill in a sequential manner, keeping topsoil on-top.
 - c. All plant installation is recommended during the dormant season (October 15th – March 1st), for best survival.
2. Prepare a planting pit for each plant and install per the planting details.
3. Apply mulch rings around each installed tree and shrub with wood chip mulch, four inches thick, 18 inches in diameter.
4. Install a bidder-designed, temporary, above ground irrigation system to provide full coverage to all plants within the restoration area.
5. Apply grass seed mix per plan.

Standard Conservation Measures

1. Best Management Practices (BMP): Prior to start of construction, vegetation to be retained and any utilities within the excavation limits will be marked. Structural debris will be removed immediately to an approved upland location. Except for the trench stockpile construction sequence above, excavated soils will be stored at an appropriate upland location on-site or hauled to a suitable off-site location. Soils will be surrounded by silt fencing as necessary to control erosion and prevent silt-laden water from reaching streams or wetlands. Any excess excavation spoils will be disposed of off-site at the contractor's discretion in a manner that does not result in the filling of wetlands or in the generation of silt-laden runoff that enters streams or wetlands. Exposed soils in disturbed areas will be mulched with straw as needed to prevent erosion.

All riparian- and buffer-related work will be conducted using best management practices for temporary erosion and sedimentation control. Use of standard temporary erosion control measures and post-project restoration of the disturbed riparian areas will prevent impacts to Ebright Creek due to this wetland-related work.

Temporary stormwater detention ponds are to be constructed and runoff from across the construction area is to be conveyed into the ponds to the greatest extent practical. A silt fence is to be installed across the downslope edge of the entire construction area to minimize sediment accumulation in the adjacent buffer and wetland areas. All cleared areas are to be hydroseeded or covered with straw to minimize erosion during construction if left exposed for extended periods.

2. Standard erosion and sedimentation control notes: In addition to the BMPs identified above, the following erosion and sediment control measures will be applied to the site:
 - 2.1. Contractor shall submit Temporary Water Pollution / Erosion Control per the Contract Specifications.
 - 2.2. All limits of clearing and areas of vegetation preservation shall be observed during construction.
 - 2.3. All required sedimentation / erosion control facilities must be in operation prior to land clearing and / or

other construction to ensure that sediment laden water does not enter the natural drainage system. All erosion and sediment facilities shall be maintained in a satisfactory condition until such time that clearing and / or construction is completed and the potential for on-site erosion has passed. The implementation, maintenance, replacement and additions to erosion / sedimentation control systems shall be the responsibility of the Contractor.

3. The erosion and sedimentation control systems depicted on this drawing are intended to be minimum requirements to meet anticipated site conditions. As construction progresses and as unexpected or seasonal conditions dictate, the Contractor should anticipate that more erosion and sedimentation control facilities will be necessary to ensure complete siltation control on the proposed site. During the course of construction, it shall be the obligation and responsibility of the Contractor to address any new conditions that may be created by his activities and to provide additional facilities, over and above the minimum requirements, as may be needed to protect adjacent properties and the water quality of the receiving drainage system.
4. At no time shall more than one foot of sediment be allowed to accumulate within a catch basin. The Contractor shall be responsible for removing and disposing of the sediment. All catch basins, conveyance lines and ditches shall be cleaned prior to paving.
5. The Contractor shall remove material dropped, washed or tracked from vehicles onto the City right-of-way or into the existing storm drainage system. Debris shall not be washed into the storm drainage system.
6. Temporary erosion control facilities shall be inspected weekly and maintained within 24 hours following a storm event. Sediment shall be removed to insure the facilities will function properly. The facilities shall be satisfactorily maintained until construction is completed and the potential for on-site erosion has passed.
7. All storm drain inlets made operable during construction shall be protected so that stormwater runoff shall not enter the conveyance system without first being filtered or otherwise treated to remove sediment.
8. No disturbed soil shall remain unstabilized for more than two days.
9. Contractor shall conform to the D.O.E. Stormwater General Permit conditions.

If this contract will not include long-term plant establishment, make that clear here. Will there be temporary irrigation? The contractor will expect to need that if he is to provide a warranty or maintain plant establishment. Without irrigation, time limits will need to be established, and provisions for extensive replacement. Note that under the Zackuse HPA conditions, an 80% survival rate of plantings after 3 years was stipulated. I assume Ebright would be the same.

Are planting spacing diagrams and species counts expected to be placed on this sheet for 60% submittal?

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 USER NAME: MAGGIE WILBANKS, EIT

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GJ/MF
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MF
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GJ



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EBRIGHT CREEK FISH PASSAGE
 CITY OF SAMMAMISH
 STREAM RESTORATION NOTES

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| JOB# / DWG 10-1900338 | DATE 03/13/2020 |
| SCALE H: 1"=10' V: N/A | SHEET 20 of 21 |