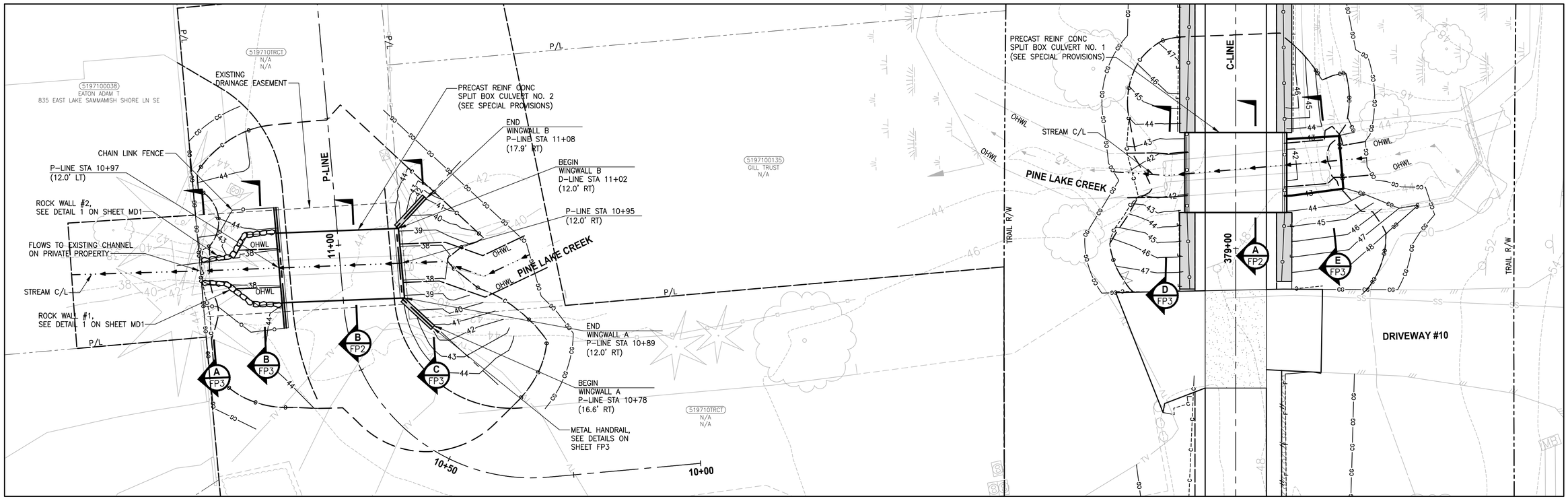
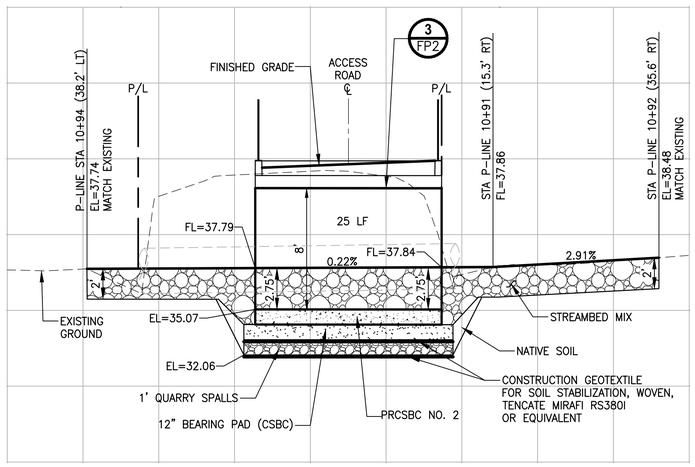
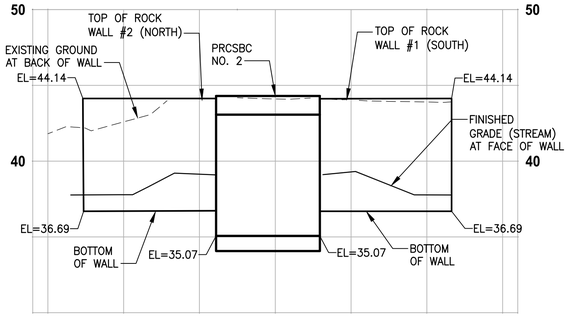


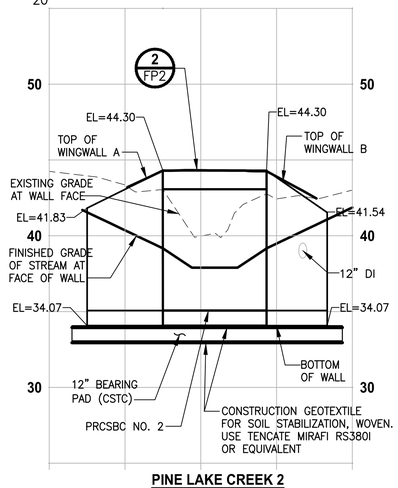

**PINE LAKE CREEK**
**PLAN**
SCALE IN FEET
0 10' 20'



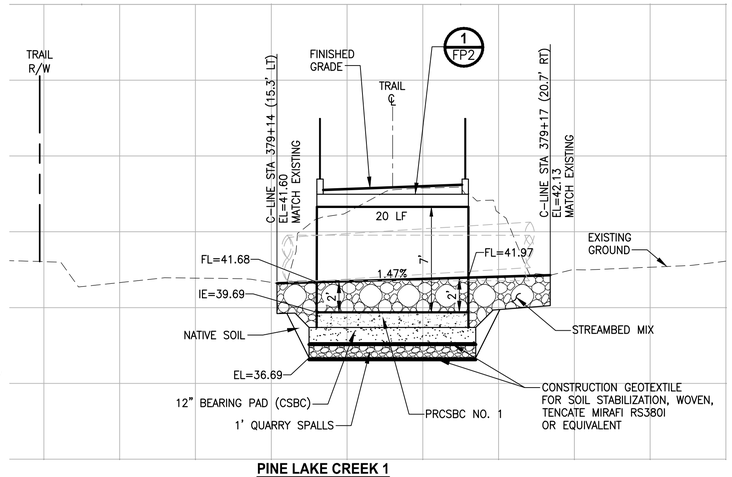

**PINE LAKE CREEK 2**
**PROFILE P-LINE STA 10+92**
HORIZ: 1"=10'
VERT: 1"=5'




**PINE LAKE CREEK 2**
**PROFILE ROCK WALL #1 & #2**
HORIZ: 1"=10'
VERT: 1"=5'




**PINE LAKE CREEK 2**
**PROFILE CULVERT 2 WINGWALLS A & B**
HORIZ: 1"=10'
VERT: 1"=5'




**PINE LAKE CREEK 1**
**PROFILE C-LINE STA 379+15**
HORIZ: 1"=10'
VERT: 1"=5'

| CITY OF SAMMAMISH APPROVAL | |
|---|---|
| City Engineer | Date |
| Community Development | Date |

**90 % REVIEW SUBMITTAL**
NOT FOR CONSTRUCTION

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED C. BUITRAGO
DRAWN B. PURGANAN
CHECKED Y. HO
APPROVED J. BAILEY

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY
FILE NAME BL1521075P19T03FP-01
JOB No. 554-1521-075 P19 T03
DATE FEBRUARY 2019

PRELIMINARY
CRAIG ALEXANDER BUITRAGO
STATE OF WASHINGTON
49427
REGISTERED
PROFESSIONAL ENGINEER

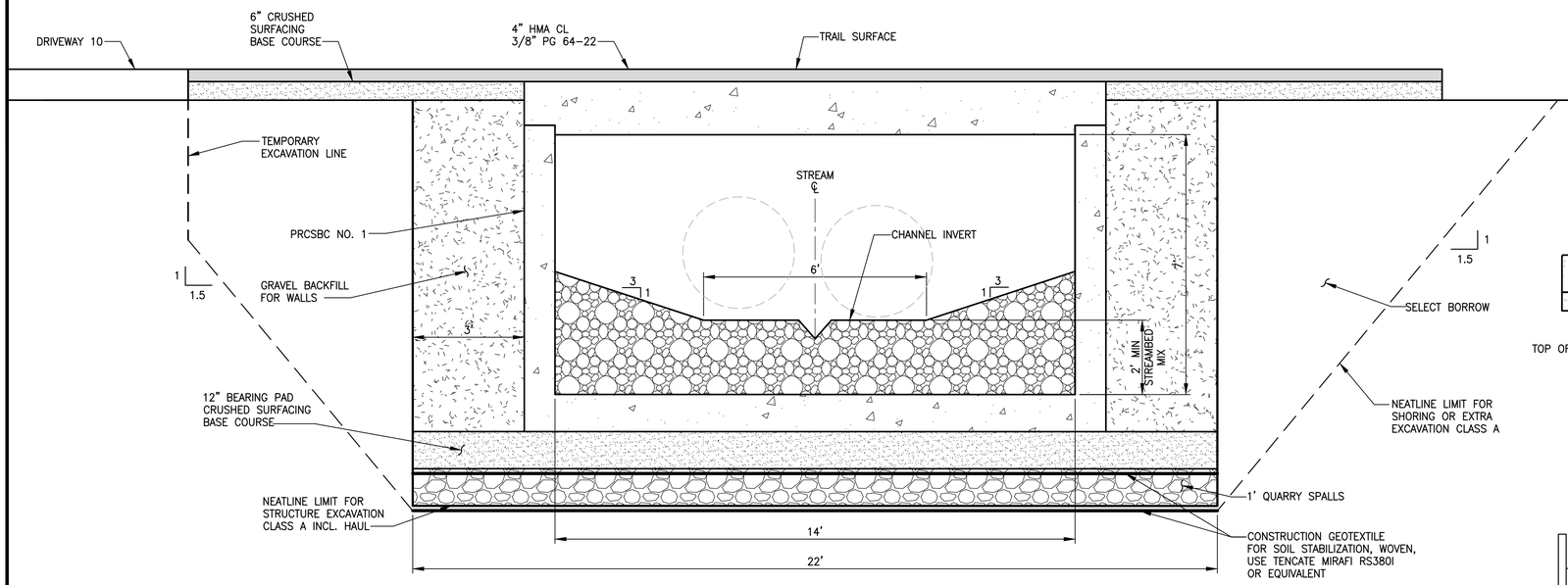

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PROJECT NAME
EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B
SAMMAMISH, WA

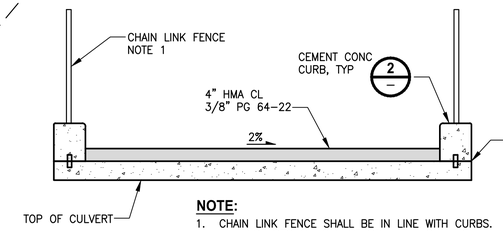
**FISH PASSAGE CULVERTS**

SHEET NO.
159 OF 274
**FP1**


PATH: U:\PS0\Projects\Clients\1521-KingCo\554-1521-075-ELST\99Svce\CADD\Phase 19\T03 Civil\Dwg\
LAYOUT: FP1
PLOTTED BY: purgabut
DATE: Wednesday, February 27, 2019 8:58:06 PM

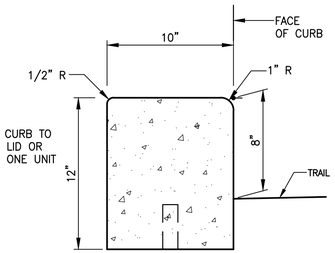



**PINE LAKE CREEK 1 (PRCSBC NO. 1)**
**TYPICAL SECTION** A
NOT TO SCALE

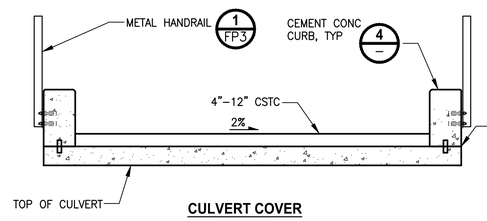



**NOTE:**
1. CHAIN LINK FENCE SHALL BE IN LINE WITH CURBS. IF FENCE SECTION CANNOT SPAN THE CULVERT, THEN POST SHALL BE CURB MOUNTED TO CONCRETE CURB. SEE DETAIL 5 THIS SHEET.

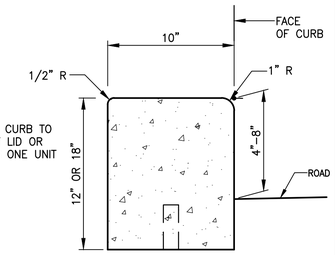
**CULVERT COVER**
**DETAIL** 1
NOT TO SCALE



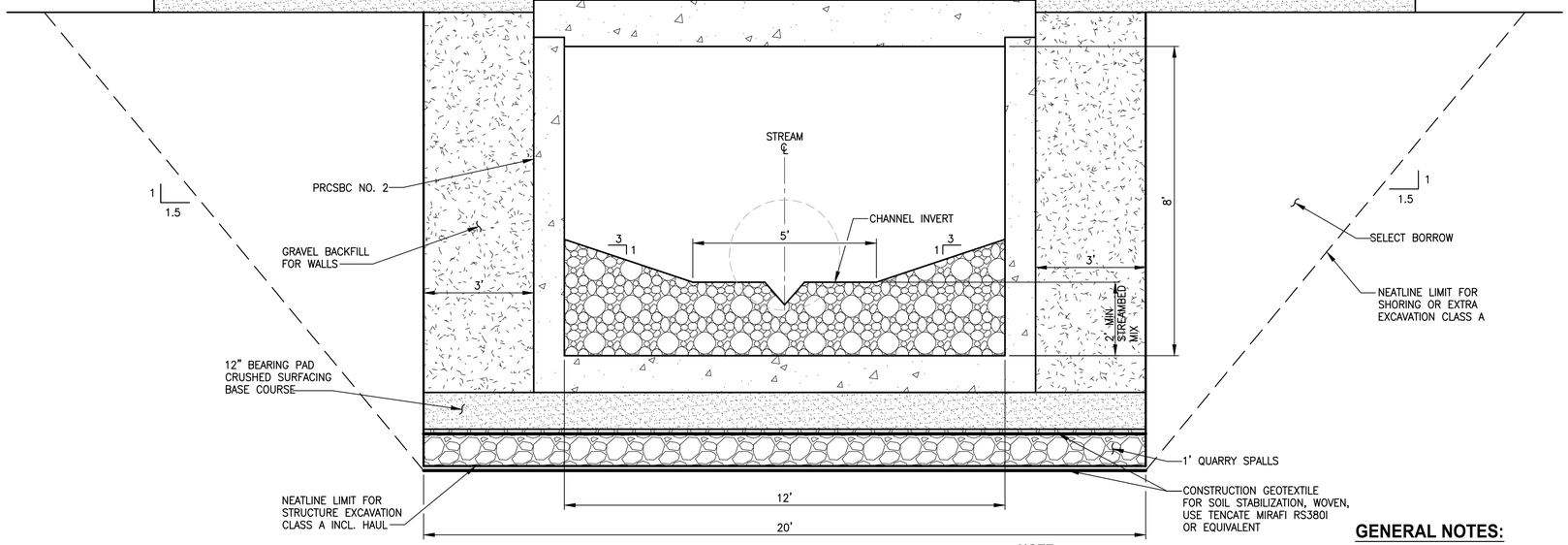

**PRECAST CEMENT CONCRETE CURB**
**DETAIL** 2
NOT TO SCALE




**CULVERT COVER**
**DETAIL** 3
NOT TO SCALE

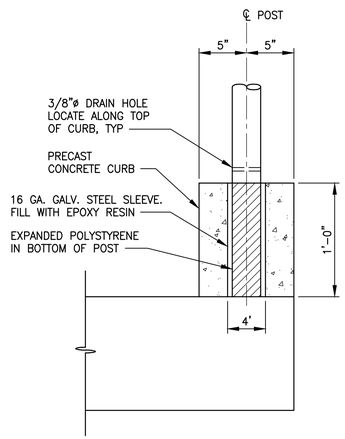



**PRECAST CEMENT CONCRETE CURB**
**DETAIL** 4
NOT TO SCALE




**PINE LAKE CREEK 2 (PRCSBC NO. 2)**
**TYPICAL SECTION** B
NOT TO SCALE

**NOTE:**
1. LOW FLOW CHANNEL TO BE INSTALLED AS DIRECTED BY THE ENGINEER.




**CHAIN LINK FENCE CURB MOUNT**
**DETAIL** 5
NOT TO SCALE

## GENERAL NOTES:

1. CONSTRUCTION ACTIVITY FOR CULVERTS SHALL NOT OCCUR UNTIL AFTER STRUCTURAL ENGINEERING APPROVAL IS OBTAINED.
2. BOX CULVERTS AND STREAM WORK BELOW ORDINARY HIGH WATER LINE SHALL ONLY OCCUR BETWEEN JUNE 16 AND SEPTEMBER 30 PER HPA APPROVAL CONDITIONS IN APPENDIX B OF THE SPECIAL PROVISIONS.

CITY OF SAMMAMISH APPROVAL

| | |
|---|---|
| City Engineer | Date |
| Community Development | Date |

**90 % REVIEW SUBMITTAL**
NOT FOR CONSTRUCTION

| ▷ | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED C. BUITRAGO
DRAWN B. PURGANAN
CHECKED Y. HO
APPROVED J. BAILEY

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME RL1521075P19T03FP-01
JOB No. 554-1521-075 P19 T03
DATE FEBRUARY 2019

CRAIG ALEXANDER BUITRAGO — STATE OF WASHINGTON — 49427 — REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

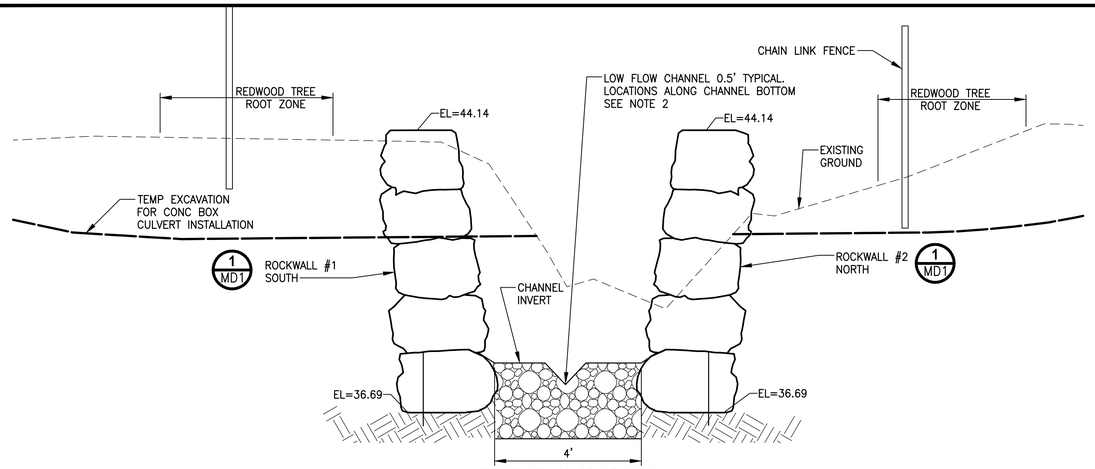
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PROJECT NAME
EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B
SAMMAMISH, WA

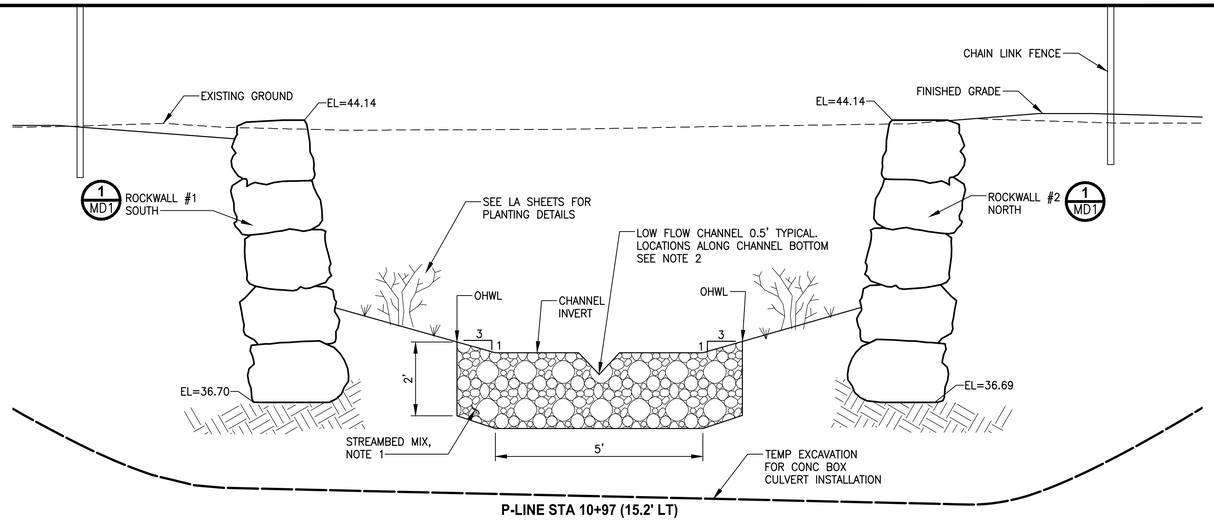
# FISH PASSAGE CULVERTS

SHEET NO. 160 OF 274
FP2

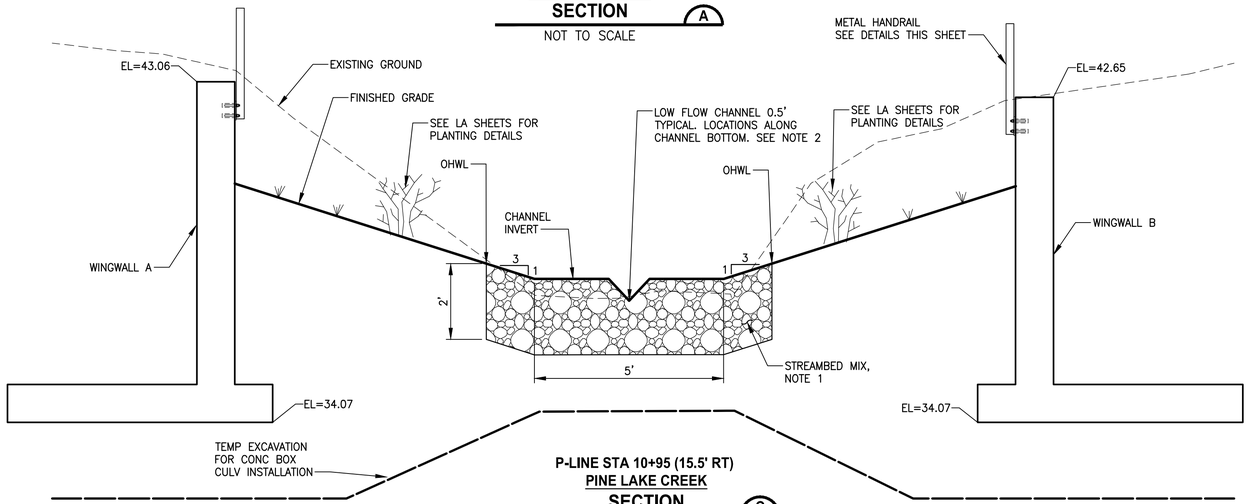
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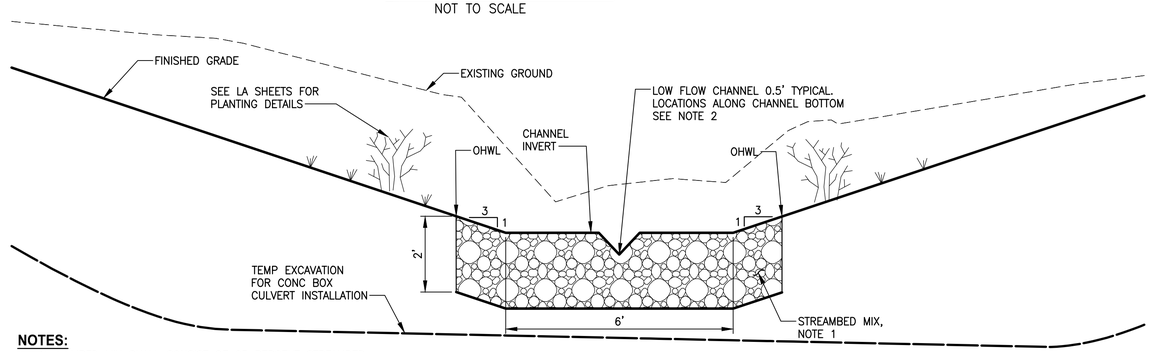

**P-LINE STA 10+97 (25.9' LT)**
**PINE LAKE CREEK**
**SECTION** A
NOT TO SCALE




**P-LINE STA 10+97 (15.2' LT)**
**PINE LAKE CREEK**
**SECTION** B
NOT TO SCALE



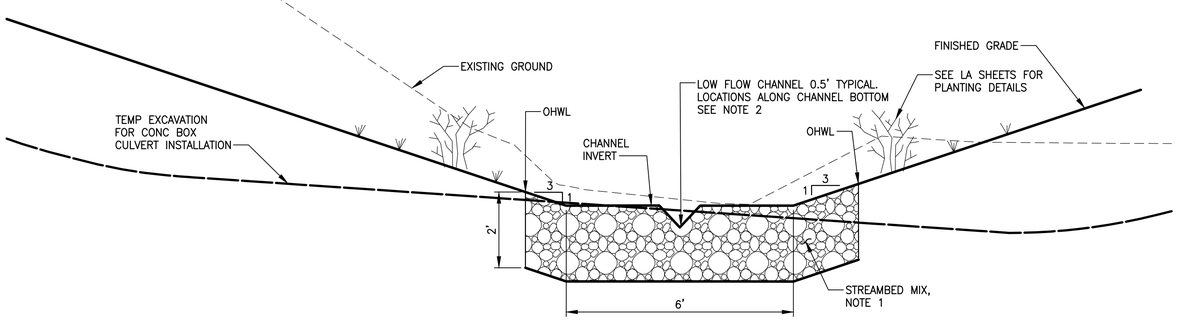

**P-LINE STA 10+95 (15.5' RT)**
**PINE LAKE CREEK**
**SECTION** C
NOT TO SCALE



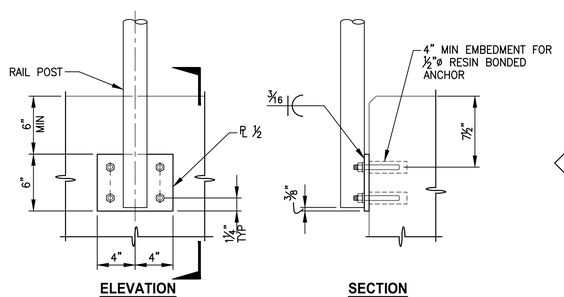

**C-LINE STA 379+14 (13.3' LT)**
**PINE LAKE CREEK**
**SECTION** D
NOT TO SCALE

**NOTES:**

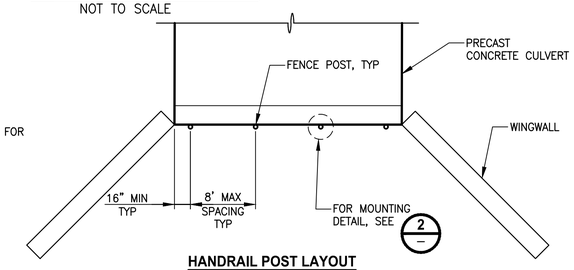
1. STREAMBED MIX SHALL CONSIST OF 25 PERCENT STREAMBED SEDIMENT AND 75 PERCENT 4-INCH STREAMBED COBBLES. STREAMBED SEDIMENT GRADATION SHALL BE PER SECTION 9-03.11(1) AND STREAMBED COBBLES (6-INCH COBBLES) GRADATION SHALL BE PER SECTION 9-03.11(2) OF THE WSDOT STANDARD SPECIFICATIONS.
2. LOCATE LOW FLOW CHANNEL AT CENTER OF CHANNEL IN TANGENT SECTIONS AND AT 1' OFFSET ON THE OUTSIDE OF BENDS WITH SMOOTH TRANSITIONS.




**C-LINE STA 379+17 (17.9'RT)**
**PINE LAKE CREEK**
**SECTION** E
NOT TO SCALE




**METAL HANDRAIL POST MOUNT BRACKET**
**DETAIL** 1
NOT TO SCALE




**HANDRAIL POST LAYOUT**
**DETAIL** 2
NOT TO SCALE

| CITY OF SAMMAMISH APPROVAL | |
|---|---|
| City Engineer | Date |
| Community Development | Date |

**90 % REVIEW SUBMITTAL**
NOT FOR CONSTRUCTION

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
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| | | | |

DESIGNED C. BUITRAGO
DRAWN B. PURGANAN
CHECKED Y. HO
APPROVED J. BAILEY

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME BL1521075P19T03FP-01
JOB No. 554-1521-075 P19 T03
DATE FEBRUARY 2019

CRAIG ALEXANDER BUITRAGO — STATE OF WASHINGTON — 49427 — REGISTERED PROFESSIONAL ENGINEER

PRELIMINARY

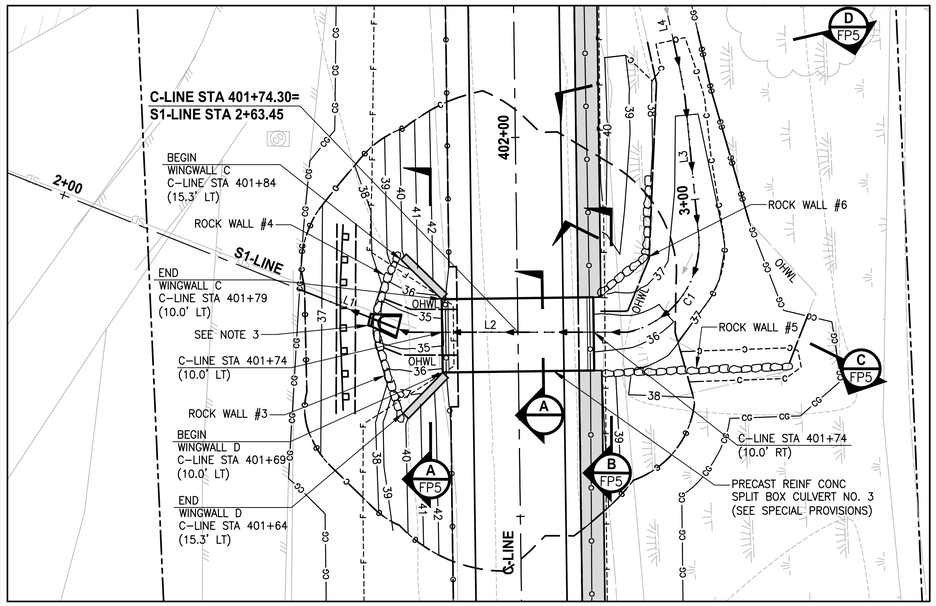

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PROJECT NAME
EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B
SAMMAMISH, WA

# FISH PASSAGE CULVERTS

SHEET NO.
161 OF 274
FP3


PATH: U:\PSO\Projects\Clients\1521-KingCo\554-1521-075-ELST\99Svcs\CADD\Phase 19\T03 Civil\Dwg\
DATE: Wednesday, February 27, 2019 8:58:57 PM
PLOTTED BY: purgabut
LAYOUT: FP3




**STREAM #0155**

## PLAN

SCALE IN FEET

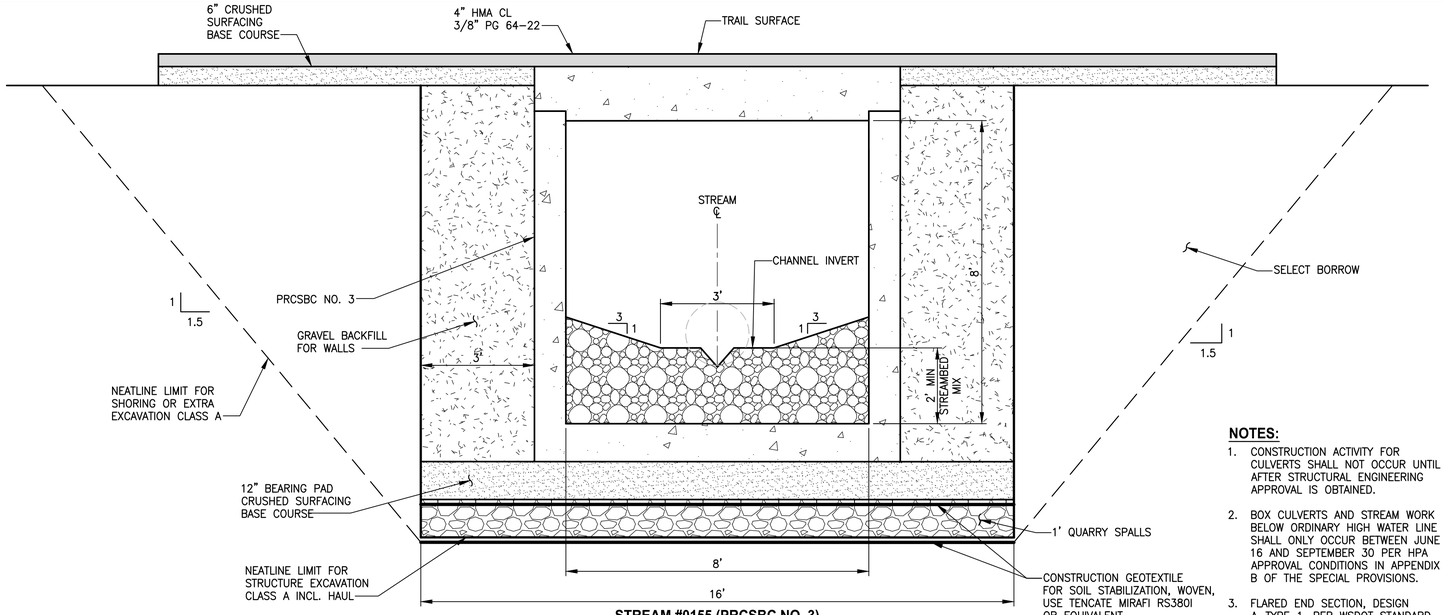
0 10' 20'

**S1-LINE LINE TABLE**

| LINE TABLE | | |
|---|---|---|
| LINE | LENGTH | BEARING |
| L1 | 86.66 | S27° 19' 25.82"E |
| L2 | 29.19 | S49° 05' 44.13"E |
| L3 | 11.85 | N35° 16' 31.85"E |
| L4 | 23.96 | N28° 13' 23.84"E |

**S1-LINE CURVE TABLE**

| CURVE TABLE | | | |
|---|---|---|---|
| CURVE | LENGTH | RADIUS | DELTA |
| C1 | 17.72 | 12.03 | 84°25'05" |



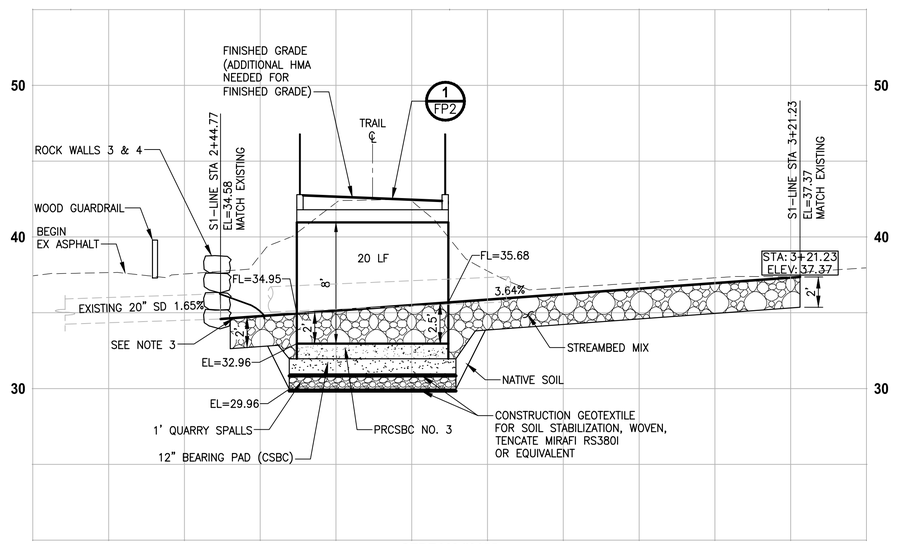

**STREAM #0155 (PRCSBC NO. 3)**

## TYPICAL SECTION (A)

NOT TO SCALE

**NOTES:**

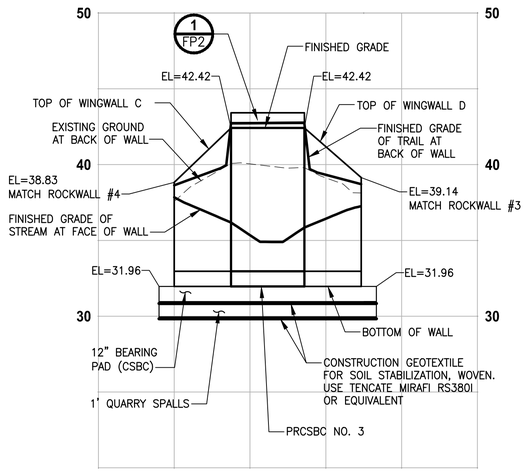
1. CONSTRUCTION ACTIVITY FOR CULVERTS SHALL NOT OCCUR UNTIL AFTER STRUCTURAL ENGINEERING APPROVAL IS OBTAINED.
2. BOX CULVERTS AND STREAM WORK BELOW ORDINARY HIGH WATER LINE SHALL ONLY OCCUR BETWEEN JUNE 16 AND SEPTEMBER 30 PER HPA APPROVAL CONDITIONS IN APPENDIX B OF THE SPECIAL PROVISIONS.
3. FLARED END SECTION, DESIGN A-TYPE 1, PER WSDOT STANDARD PLAN B-70.60-01




**STREAM #0155**

## PROFILE B-LINE STA 401+75

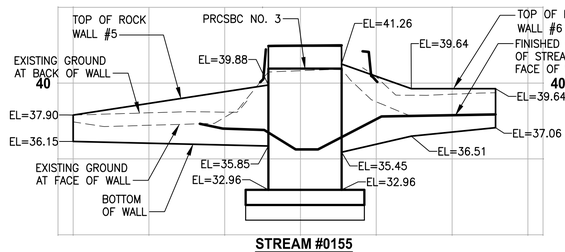
HORIZ: 1"=10'
VERT: 1"=5'




**STREAM #0155**

## PROFILE CULVERT 3 WINGWALLS C & D

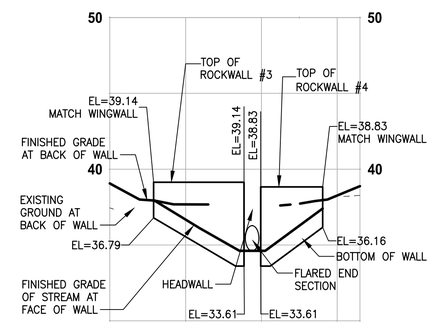
HORIZ: 1"=10'
VERT: 1"=5'




**STREAM #0155**

## PROFILE ROCK WALL #5 & #6

HORIZ: 1"=10'
VERT: 1"=5'




**STREAM #0155**

## PROFILE ROCK WALL #3 & #4

HORIZ: 1"=10'
VERT: 1"=5'

| CITY OF SAMMAMISH APPROVAL | |
|---|---|
| City Engineer | Date |
| Community Development | Date |

**90 % REVIEW SUBMITTAL**

NOT FOR CONSTRUCTION

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED C. BUITRAGO
DRAWN B. PURGANAN
CHECKED Y. HO
APPROVED J. BAILEY

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME BL1521075P19T03FP-01
JOB No. 554-1521-075 P19 T03
DATE FEBRUARY 2019

PRELIMINARY

CRAIG ALEXANDER BUITRAGO, STATE OF WASHINGTON, 49427, REGISTERED PROFESSIONAL ENGINEER


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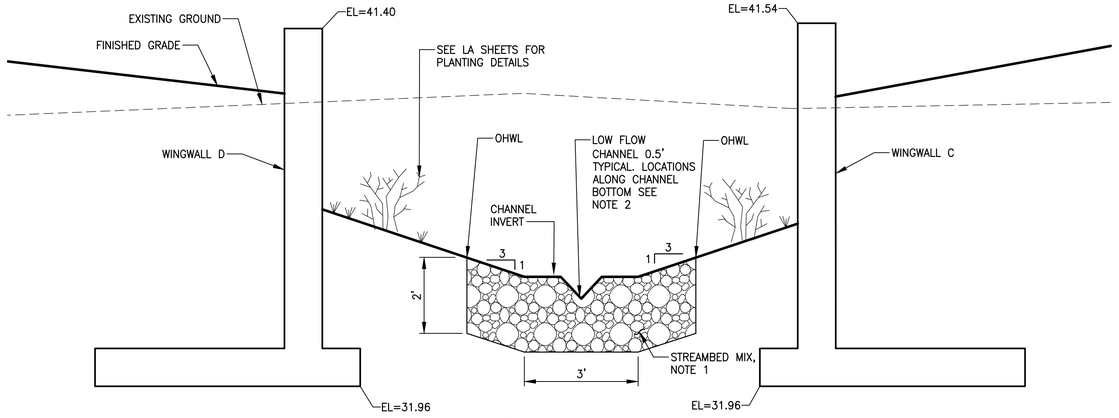

PROJECT NAME
EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B
SAMMAMISH, WA

# FISH PASSAGE CULVERTS

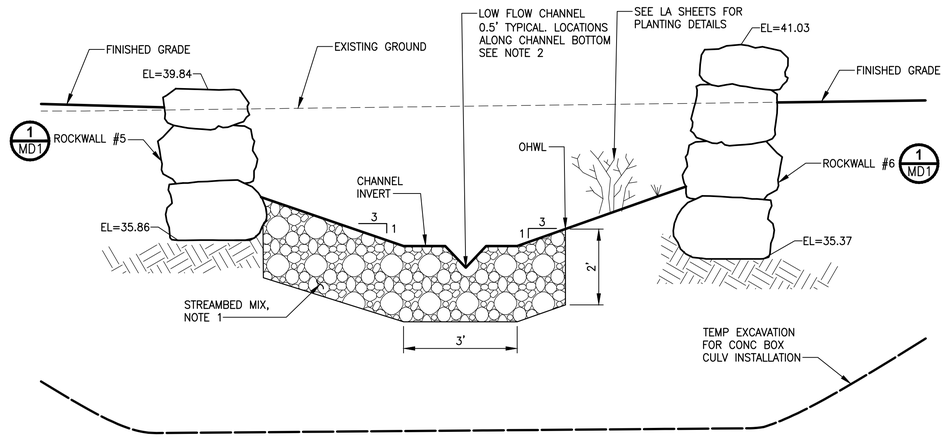
SHEET NO.
162 OF 274

FP4


PATH: U:\PSO\Projects\Clients\1521-KingCo\554-1521-075-ELST\99Svcs\CADD\Phase 19\T03 Civil\Dwg\
PLOTTED BY: purgabut DATE: Wednesday, February 27, 2019 8:59:20 PM
LAYOUT: FP4



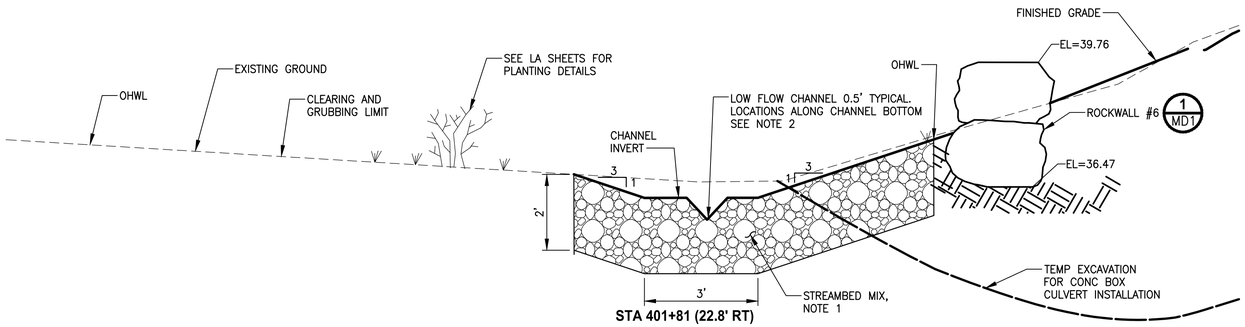

**STA 401+74 (10.0' LT)**
**STREAM #0155**
**SECTION** A
NOT TO SCALE



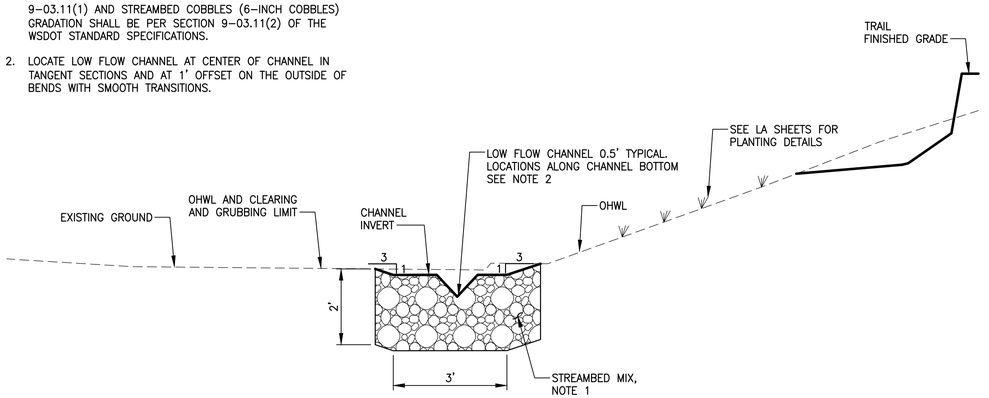

**STA 401+74 (12.3' RT)**
**STREAM #0155**
**SECTION** B
NOT TO SCALE

**NOTES:**

1. STREAMBED MIX SHALL CONSIST OF 25 PERCENT STREAMBED SEDIMENT AND 75 PERCENT 6-INCH STREAMBED COBBLES. STREAMBED SEDIMENT GRADATION SHALL BE PER SECTION 9-03.11(1) AND STREAMBED COBBLES (6-INCH COBBLES) GRADATION SHALL BE PER SECTION 9-03.11(2) OF THE WSDOT STANDARD SPECIFICATIONS.
2. LOCATE LOW FLOW CHANNEL AT CENTER OF CHANNEL IN TANGENT SECTIONS AND AT 1' OFFSET ON THE OUTSIDE OF BENDS WITH SMOOTH TRANSITIONS.




**STA 401+81 (22.8' RT)**
**STREAM #0155**
**SECTION** C
NOT TO SCALE




**STA 402+09 (21.7' RT)**
**STREAM #0155**
**SECTION** D
NOT TO SCALE

| CITY OF SAMMAMISH APPROVAL | |
|---|---|
| City Engineer | Date |
| Community Development | Date |

**90 % REVIEW SUBMITTAL**
NOT FOR CONSTRUCTION

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
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| | | | |

DESIGNED C. BUITRAGO
DRAWN B. PURGANAN
CHECKED Y. HO
APPROVED J. BAILEY

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME BL1521075P19T03FP-01
JOB No. 554-1521-075 P19 T03
DATE FEBRUARY 2019

CRAIG ALEXANDER BUITRAGO — STATE OF WASHINGTON — 49427 — REGISTERED PROFESSIONAL ENGINEER

PRELIMINARY

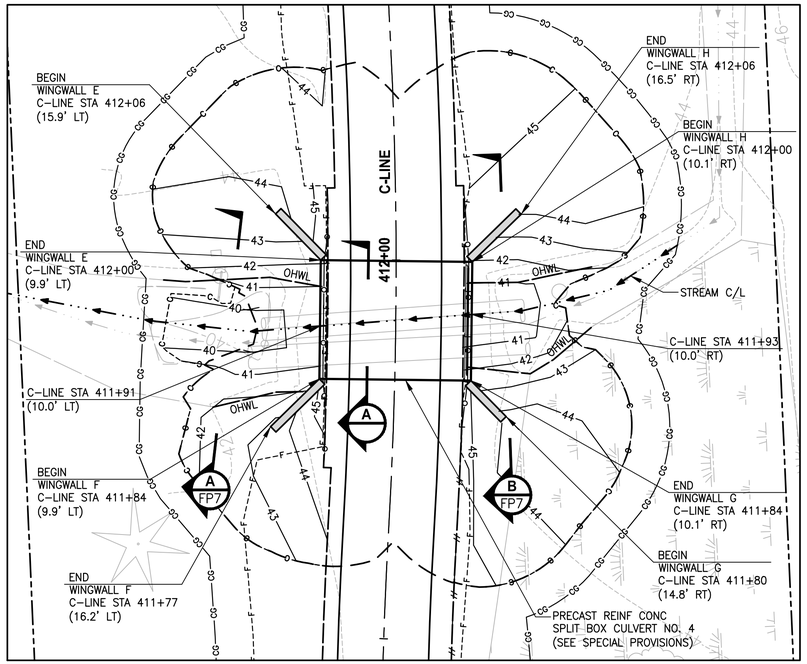
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PROJECT NAME
**EAST LAKE SAMMAMISH MASTER PLAN TRAIL SOUTH SAMMAMISH SEGMENT B**
SAMMAMISH, WA

# FISH PASSAGE CULVERTS

SHEET NO. 163 OF 274
**FP5**

LAYOUT: FP5 PATH: U:\PSO\Projects\Clients\1521-KingCo\554-1521-075-ELST\399\cs\CADD\Phase 19\T03 Civil\Dwg\ PLOTTED BY: purgabut DATE: Wednesday, February 27, 2019 8:59:40 PM

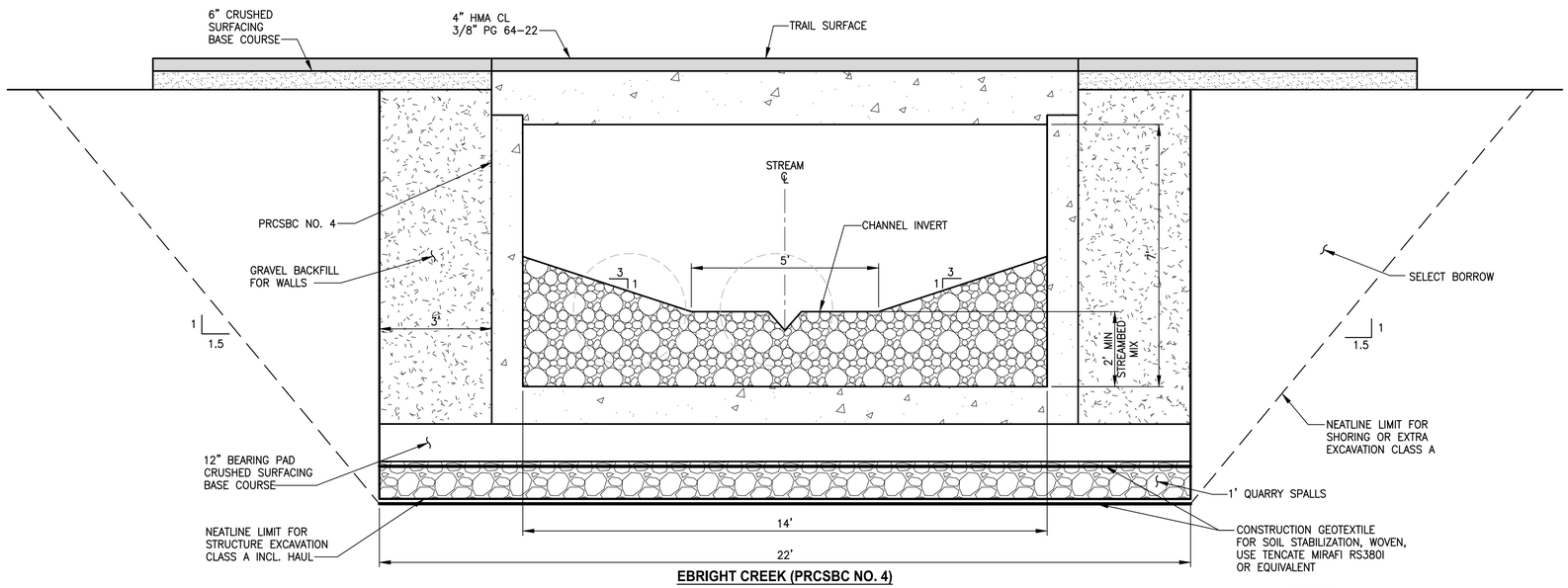



**EBRIGHT CREEK (PRCSBC NO. 4)**

**PLAN**

SCALE IN FEET

0 10' 20'



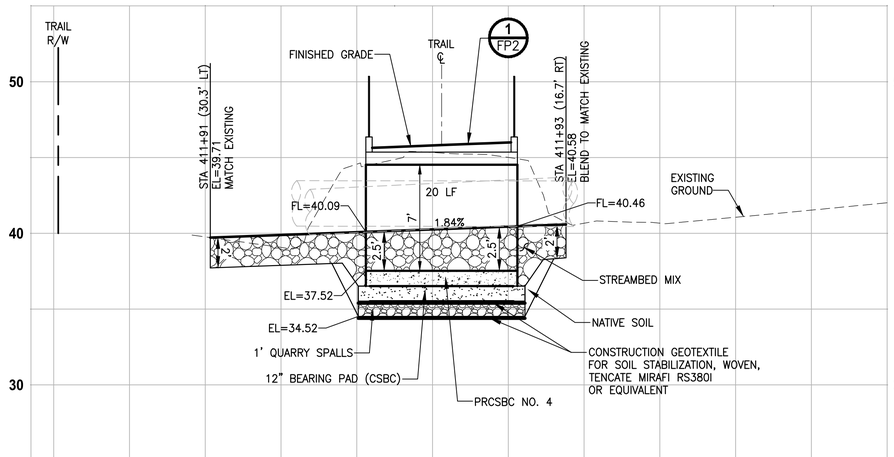

**EBRIGHT CREEK (PRCSBC NO. 4)**

**TYPICAL SECTION** (A)

NOT TO SCALE

## NOTES:

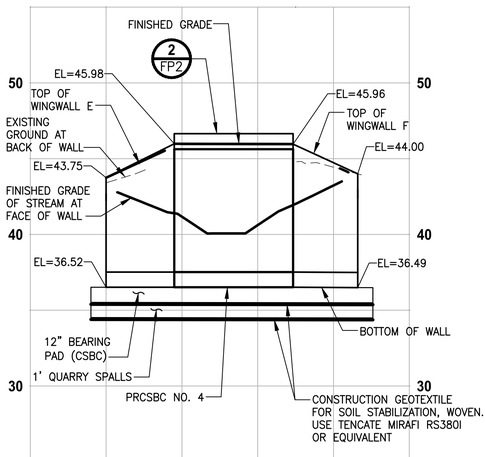
1. CONSTRUCTION ACTIVITY FOR CULVERTS SHALL NOT OCCUR UNTIL AFTER STRUCTURAL ENGINEERING APPROVAL IS OBTAINED.
2. BOX CULVERTS AND STREAM WORK BELOW ORDINARY HIGH WATER LINE SHALL ONLY OCCUR BETWEEN JUNE 16 AND SEPTEMBER 30 PER HPA APPROVAL CONDITIONS IN APPENDIX B OF THE SPECIAL PROVISIONS.




**EBRIGHT CREEK**

**PROFILE C-LINE STA 411+90**

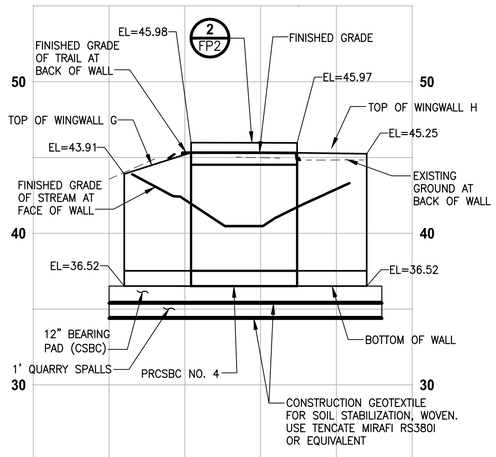
HORIZ: 1"=10'
VERT: 1"=5'




**EBRIGHT CREEK**

**PROFILE CULVERT 4 WINGWALLS E & F**

HORIZ: 1"=10'
VERT: 1"=5'




**EBRIGHT CREEK**

**PROFILE CULVERT 4 WINGWALLS G & H**

HORIZ: 1"=10'
VERT: 1"=5'

| CITY OF SAMMAMISH APPROVAL | |
|---|---|
| City Engineer | Date |
| Community Development | Date |

**90 % REVIEW SUBMITTAL**

NOT FOR CONSTRUCTION

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED C. BUITRAGO
DRAWN B. PURGANAN
CHECKED Y. HO
APPROVED J. BAILEY

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME BL1521075P19T03FP-01
JOB No. 554-1521-075 P19 T03
DATE FEBRUARY 2019

PRELIMINARY

CRAIG ALEXANDER BUITRAGO · STATE OF WASHINGTON · 49427 · REGISTERED PROFESSIONAL ENGINEER


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P 206.394.3700
WWW.PARAMETRIX.COM

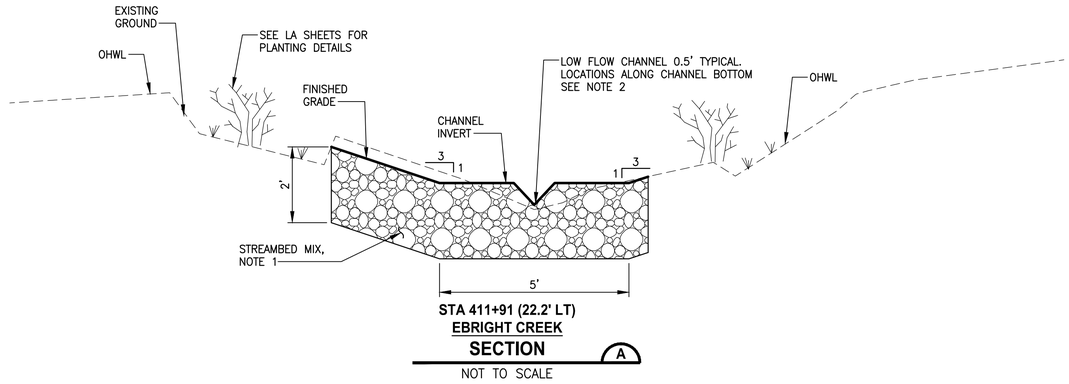

PROJECT NAME
EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B
SAMMAMISH, WA

# FISH PASSAGE CULVERTS

SHEET NO.
164 OF 274

**FP6**

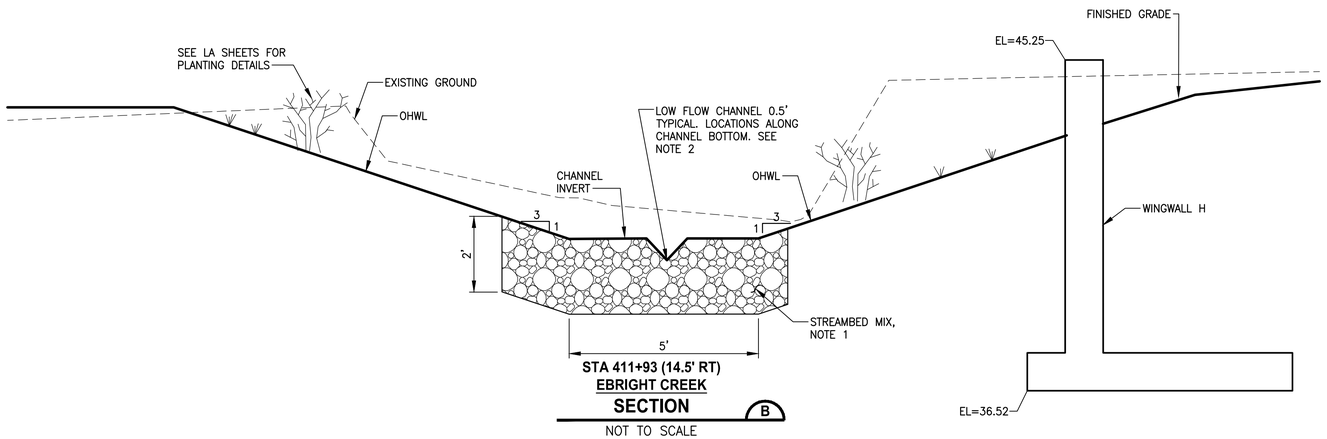

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LAYOUT: FP6 PLOTTED BY: purgobut DATE: Wednesday, February 27, 2019 9:00:05 PM




**STA 411+91 (22.2' LT)**
**EBRIGHT CREEK**
**SECTION** A
NOT TO SCALE

**NOTES:**

1. STREAMBED MIX SHALL CONSIST OF 25 PERCENT STREAMBED SEDIMENT AND 75 PERCENT 6–INCH STREAMBED COBBLES. STREAMBED SEDIMENT GRADATION SHALL BE PER SECTION 9–03.11(1) AND STREAMBED COBBLES (6–INCH COBBLES) GRADATION SHALL BE PER SECTION 9–03.11(2) OF THE WSDOT STANDARD SPECIFICATIONS.
2. LOCATE LOW FLOW CHANNEL AT CENTER OF CHANNEL IN TANGENT SECTIONS AND AT 1' OFFSET ON THE OUTSIDE OF BENDS WITH SMOOTH TRANSITIONS.




**STA 411+93 (14.5' RT)**
**EBRIGHT CREEK**
**SECTION** B
NOT TO SCALE

| CITY OF SAMMAMISH APPROVAL | |
|---|---|
| City Engineer | Date |
| Community Development | Date |

**90 % REVIEW SUBMITTAL**
NOT FOR CONSTRUCTION

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED C. BUITRAGO
DRAWN B. PURGANAN
CHECKED Y. HO
APPROVED J. BAILEY

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME BL1521075P19T03FP–01
JOB No. 554–1521–075 P19 T03
DATE FEBRUARY 2019

PRELIMINARY
CRAIG ALEXANDER BUITRAGO · STATE OF WASHINGTON · 49427 · REGISTERED PROFESSIONAL ENGINEER

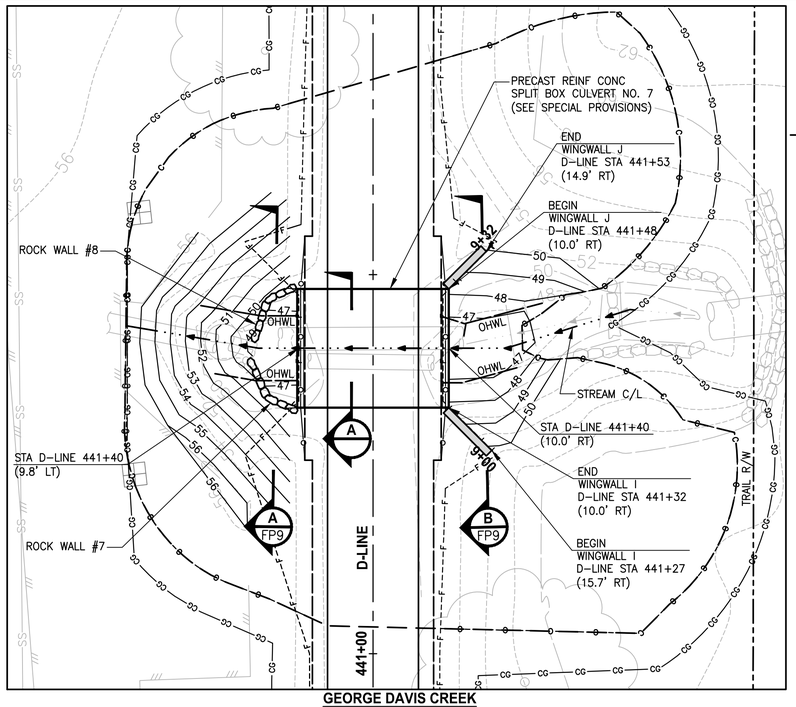

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PROJECT NAME
**EAST LAKE SAMMAMISH MASTER PLAN TRAIL SOUTH SAMMAMISH SEGMENT B**
SAMMAMISH, WA

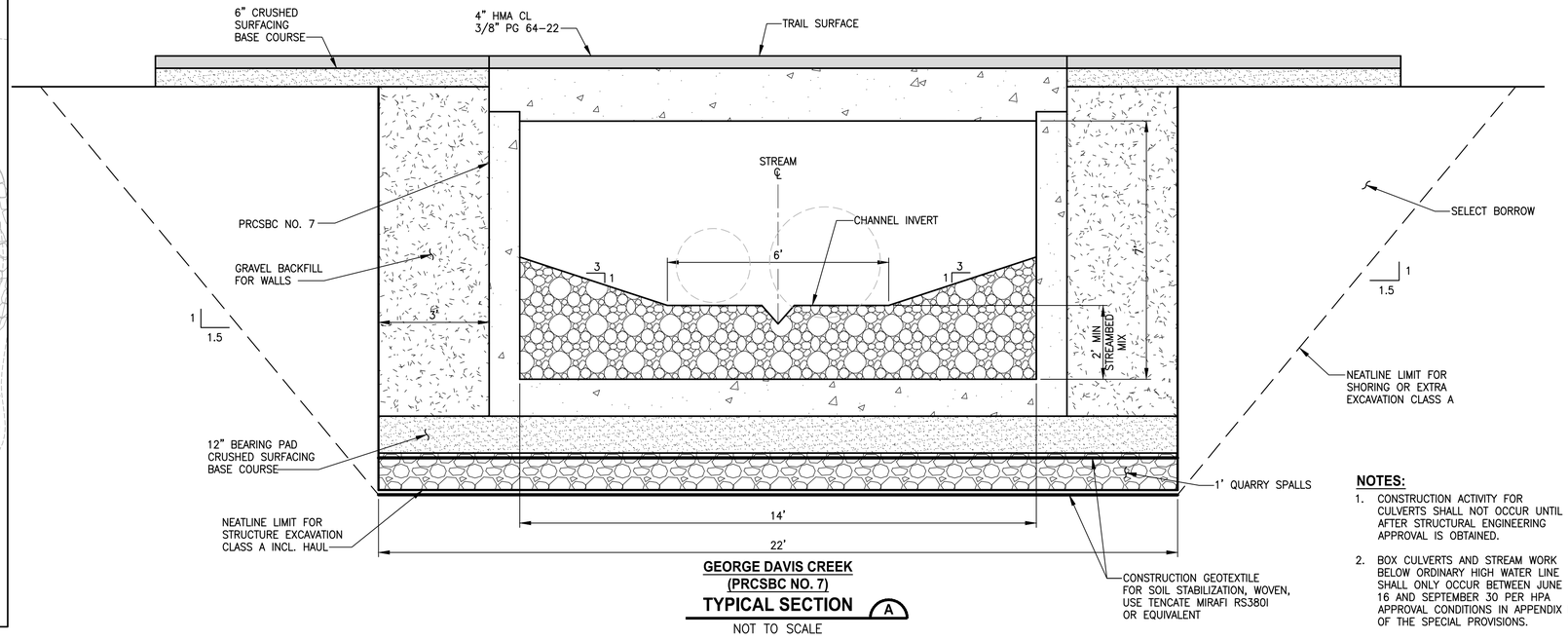
# FISH PASSAGE CULVERTS

SHEET NO. 165 OF 274
**FP7**


PATH: U:\PSO\Projects\Clients\1521–KingCo\554–1521–075–ELST\399vcs\CADD\Phase 19\T03 Civil\Dwg\
PLOTTED BY: purgabut DATE: Wednesday, February 27, 2019 9:00:18 PM
LAYOUT: FP7



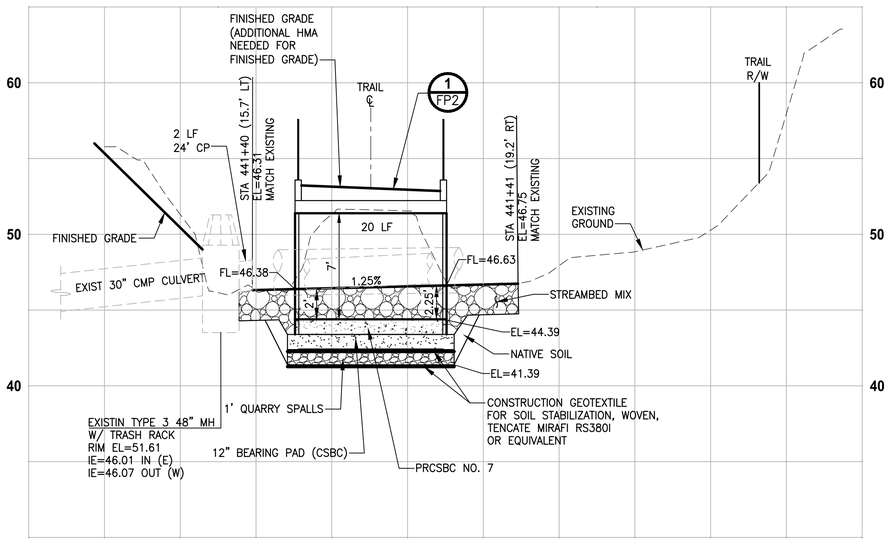

**GEORGE DAVIS CREEK**
**(PRCSBC NO. 7)**
**PLAN**
SCALE IN FEET
0 10' 20'



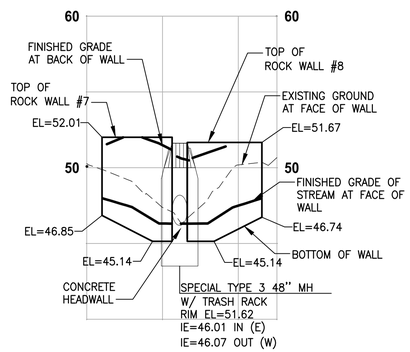

**GEORGE DAVIS CREEK**
**(PRCSBC NO. 7)**
**TYPICAL SECTION** A
NOT TO SCALE

**NOTES:**

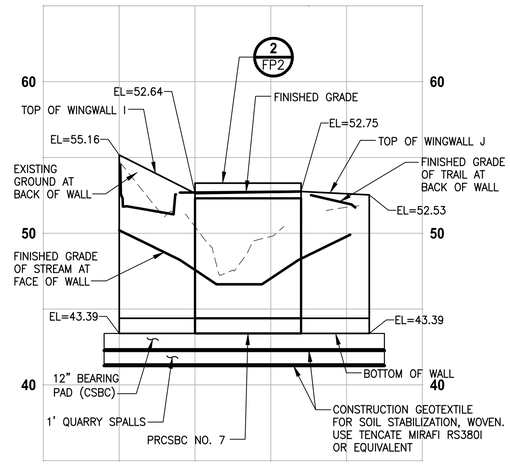
1. CONSTRUCTION ACTIVITY FOR CULVERTS SHALL NOT OCCUR UNTIL AFTER STRUCTURAL ENGINEERING APPROVAL IS OBTAINED.
2. BOX CULVERTS AND STREAM WORK BELOW ORDINARY HIGH WATER LINE SHALL ONLY OCCUR BETWEEN JUNE 16 AND SEPTEMBER 30 PER HPA APPROVAL CONDITIONS IN APPENDIX B OF THE SPECIAL PROVISIONS.




**GEORGE DAVIS CREEK**
**PROFILE D-LINE STA 441+40**
HORIZ: 1"=10'
VERT: 1"=5'




**GEORGE DAVIS CREEK**
**PROFILE ROCK WALL #7 & #8**
HORIZ: 1"=10'
VERT: 1"=5'




**GEORGE DAVIS CREEK**
**PROFILE CULVERT 7 WINGWALLS I & J**
HORIZ: 1"=10'
VERT: 1"=5'

| CITY OF SAMMAMISH APPROVAL | |
|---|---|
| City Engineer | Date |
| Community Development | Date |

**90 % REVIEW SUBMITTAL**
NOT FOR CONSTRUCTION

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
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| | | | |

DESIGNED C. BUITRAGO
DRAWN B. PURGANAN
CHECKED Y. HO
APPROVED J. BAILEY

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY
FILE NAME BL1521075P19T03FP-01
JOB No. 554-1521-075 P19 T03
DATE FEBRUARY 2019

CRAIG ALEXANDER BUITRAGO
STATE OF WASHINGTON
49427
REGISTERED
PROFESSIONAL ENGINEER
PRELIMINARY


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P 206.394.3700
WWW.PARAMETRIX.COM

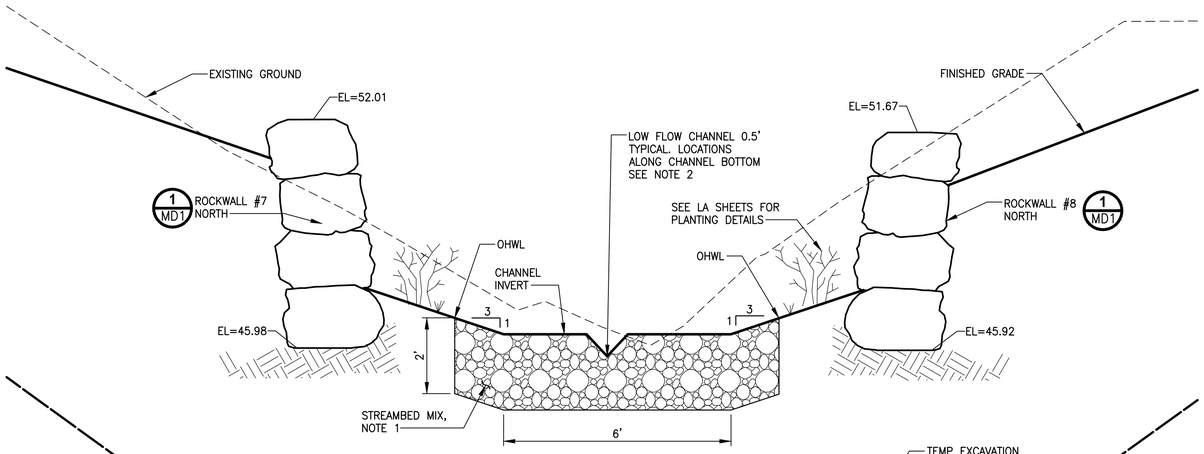

PROJECT NAME
**EAST LAKE SAMMAMISH**
**MASTER PLAN TRAIL**
**SOUTH SAMMAMISH SEGMENT B**
SAMMAMISH, WA

# FISH PASSAGE CULVERTS

SHEET NO.
166 OF 274

**FP8**

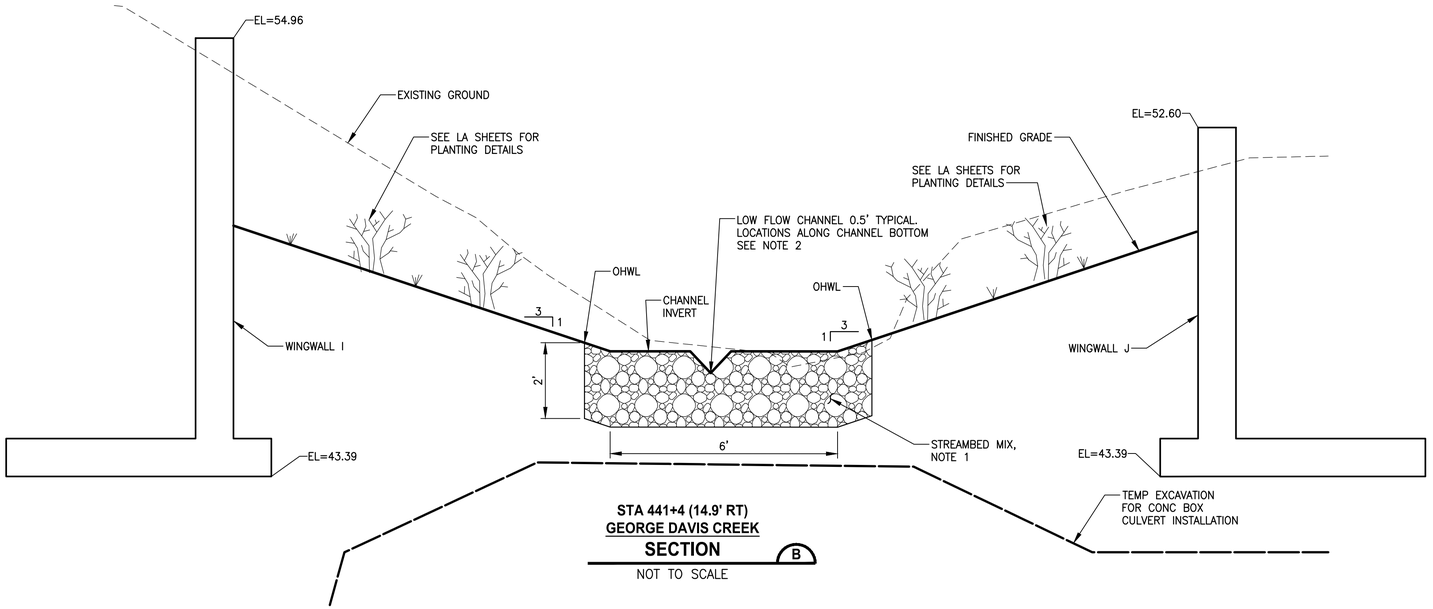

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PLOTTED BY: purgabut DATE: Wednesday, February 27, 2019 9:00:36 PM
LAYOUT: FP8




**STA 441+40 (13.0' LT)**
**GEORGE DAVIS CREEK**
**SECTION** A
NOT TO SCALE

**NOTES:**

1. STREAMBED MIX SHALL CONSIST OF 25 PERCENT STREAMBED SEDIMENT AND 75 PERCENT 6-INCH STREAMBED COBBLES. STREAMBED SEDIMENT GRADATION SHALL BE PER SECTION 9-03.11(1) AND STREAMBED COBBLES (6-INCH COBBLES) GRADATION SHALL BE PER SECTION 9-03.11(2) OF THE WSDOT STANDARD SPECIFICATIONS.
2. LOCATE LOW FLOW CHANNEL AT CENTER OF CHANNEL IN TANGENT SECTIONS AND AT 1' OFFSET ON THE OUTSIDE OF BENDS WITH SMOOTH TRANSITIONS.




**STA 441+4 (14.9' RT)**
**GEORGE DAVIS CREEK**
**SECTION** B
NOT TO SCALE

| CITY OF SAMMAMISH APPROVAL | |
|---|---|
| City Engineer | Date |
| Community Development | Date |

**90 % REVIEW SUBMITTAL**
NOT FOR CONSTRUCTION

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
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| | | | |

DESIGNED C. BUITRAGO
DRAWN B. PURGANAN
CHECKED Y. HO
APPROVED J. BAILEY

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME BL1521075P19T03FP-01
JOB No. 554-1521-075 P19 T03
DATE FEBRUARY 2019

CRAIG ALEXANDER BUITRAGO — STATE OF WASHINGTON — 49427 — REGISTERED PROFESSIONAL ENGINEER

PRELIMINARY

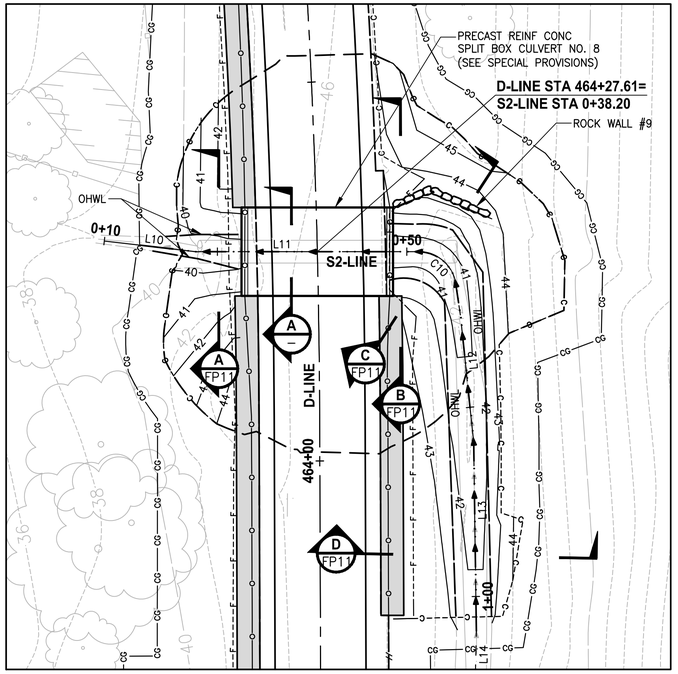
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ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES
719 2ND AVENUE, SUITE 200 | SEATTLE, WA 98104
P 206.394.3700
WWW.PARAMETRIX.COM

PROJECT NAME
**EAST LAKE SAMMAMISH MASTER PLAN TRAIL SOUTH SAMMAMISH SEGMENT B**
SAMMAMISH, WA

# FISH PASSAGE CULVERTS

SHEET NO. 167 OF 274
**FP9**

PATH: U:\PSO\Projects\Clients\1521-KingCo\554-1521-075-ELST\99Svcs\CADD\Phase 19\T03 Civil\Dwg\
LAYOUT: FP9
PLOTTED BY: purgabut DATE: Wednesday, February 27, 2019 9:00:48 PM




**STREAM #0143L (PRCSBC NO. 8)**

## PLAN

SCALE IN FEET

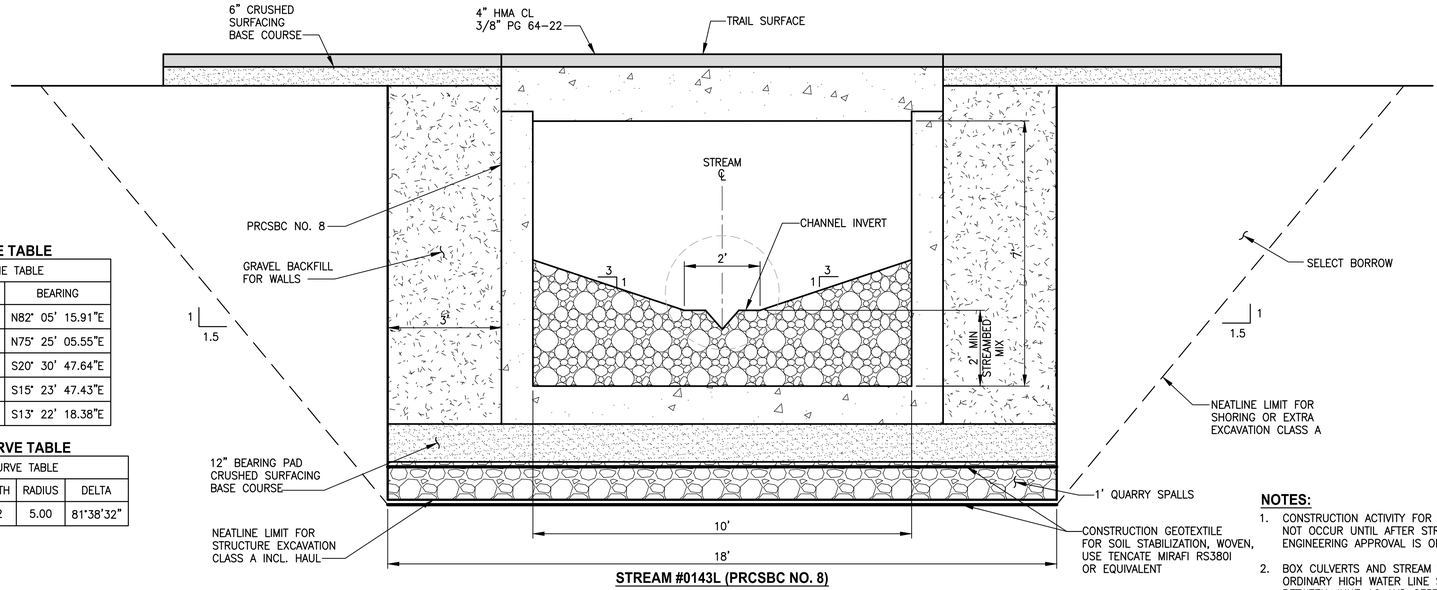
0 10' 20'

**S2-LINE LINE TABLE**

| LINE TABLE | | |
|---|---|---|
| LINE | LENGTH | BEARING |
| L10 | 12.13 | N82° 05' 15.91"E |
| L11 | 29.39 | N75° 25' 05.55"E |
| L12 | 7.29 | S20° 30' 47.64"E |
| L13 | 9.04 | S15° 23' 47.43"E |
| L14 | 9.71 | S13° 22' 18.38"E |

**S2-LINE CURVE TABLE**

| CURVE TABLE | | | |
|---|---|---|---|
| CURVE | LENGTH | RADIUS | DELTA |
| C10 | 7.12 | 5.00 | 81°38'32" |



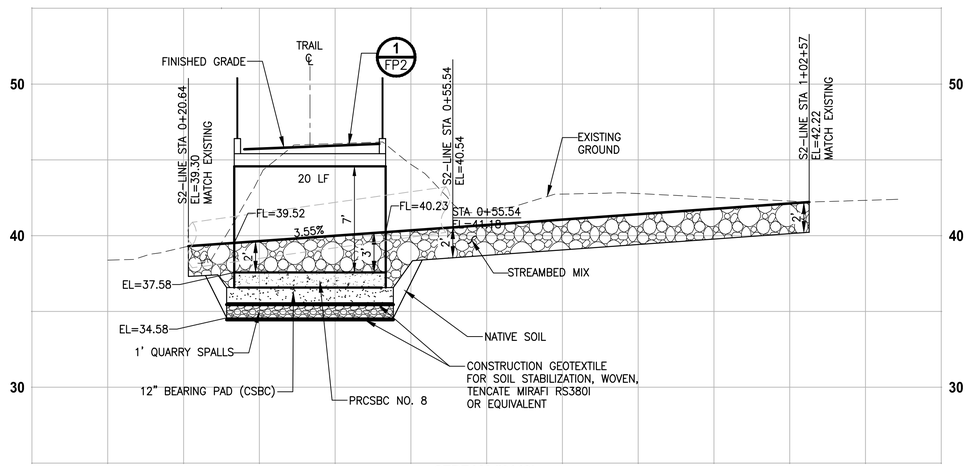

**STREAM #0143L (PRCSBC NO. 8)**

## TYPICAL SECTION A

NOT TO SCALE

**NOTES:**

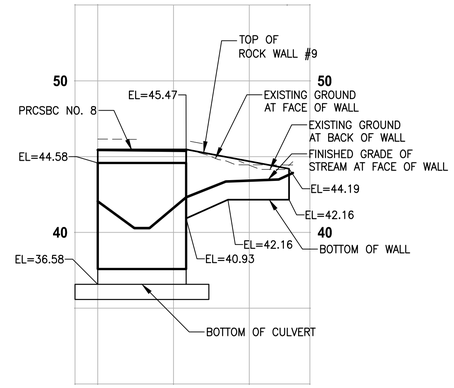
1. CONSTRUCTION ACTIVITY FOR CULVERTS SHALL NOT OCCUR UNTIL AFTER STRUCTURAL ENGINEERING APPROVAL IS OBTAINED.
2. BOX CULVERTS AND STREAM WORK BELOW ORDINARY HIGH WATER LINE SHALL ONLY OCCUR BETWEEN JUNE 16 AND SEPTEMBER 30 PER HPA APPROVAL CONDITIONS IN APPENDIX B OF THE SPECIAL PROVISIONS.




**STREAM #0143L**

## PROFILE D-LINE STA 464+28

HORIZ: 1"=10'
VERT: 1"=5'




**STREAM #0143L**

## PROFILE ROCK WALL #9

HORIZ: 1"=10'
VERT: 1"=5'

| CITY OF SAMMAMISH APPROVAL | |
|---|---|
| City Engineer | Date |
| Community Development | Date |

**90 % REVIEW SUBMITTAL**

NOT FOR CONSTRUCTION

| REVISIONS | DATE | BY |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

DESIGNED C. BUITRAGO
DRAWN B. PURGANAN
CHECKED Y. HO
APPROVED J. BAILEY

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME BL1521075P19T03FP-01
JOB No. 554-1521-075 P19 T03
DATE FEBRUARY 2019

CRAIG ALEXANDER BUITRAGO STATE OF WASHINGTON 49427 REGISTERED PROFESSIONAL ENGINEER

PRELIMINARY

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P 206.394.3700
WWW.PARAMETRIX.COM

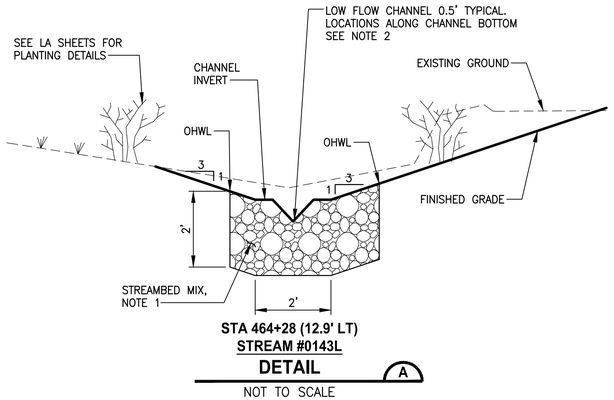
PROJECT NAME
EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B
SAMMAMISH, WA

# FISH PASSAGE CULVERTS

SHEET NO.
168 OF 274

FP10

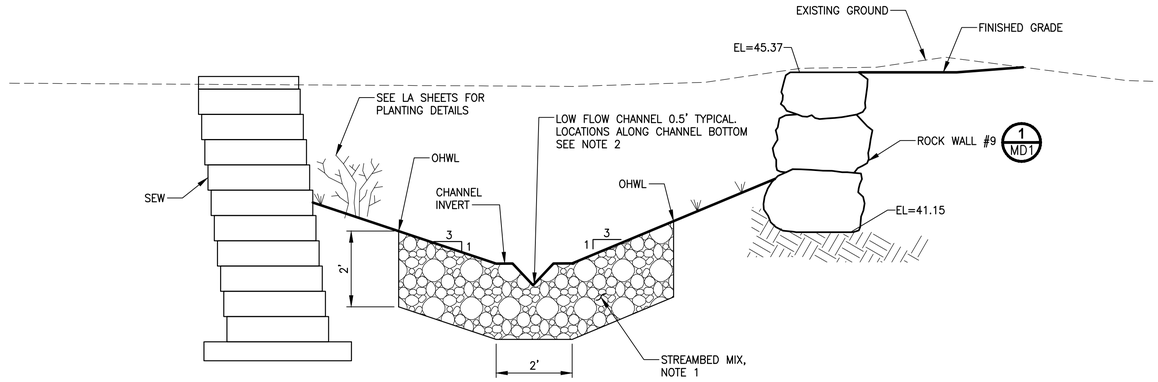
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LAYOUT: FP10



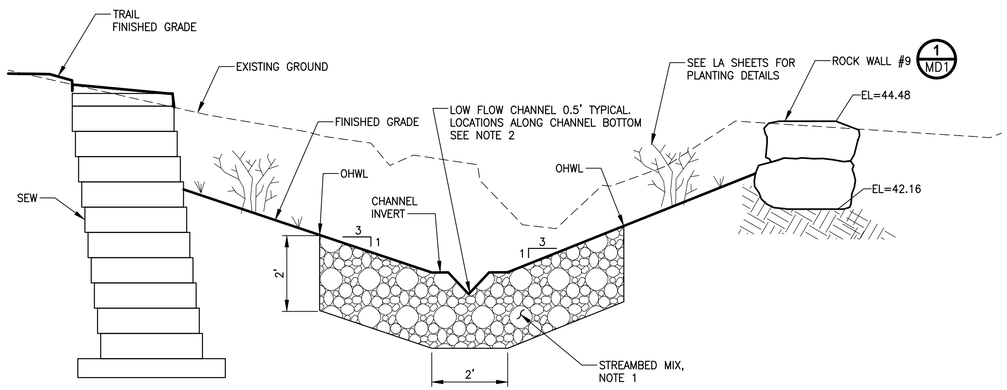

**STA 464+28 (12.9' LT)**
**STREAM #0143L**
**DETAIL** A
NOT TO SCALE

**NOTES:**

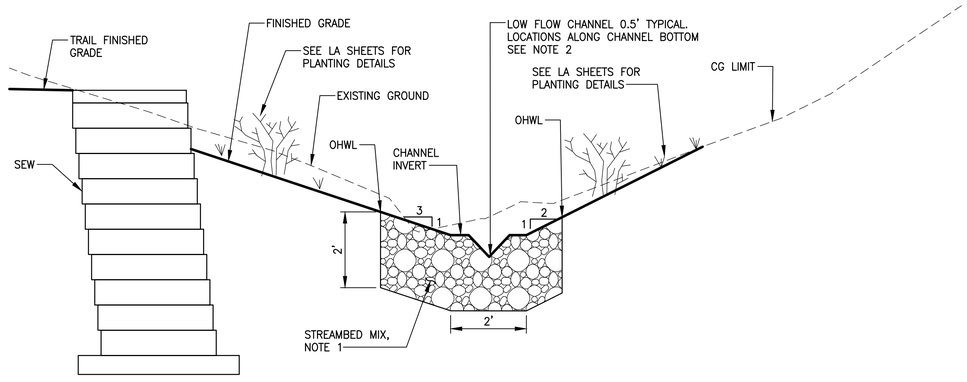
1. STREAMBED MIX SHALL CONSIST OF 25 PERCENT STREAMBED SEDIMENT AND 75 PERCENT 4–INCH STREAMBED COBBLES. STREAMBED SEDIMENT GRADATION SHALL BE PER SECTION 9–03.11(1) AND STREAMBED COBBLES (6–INCH COBBLES) GRADATION SHALL BE PER SECTION 9–03.11(2) OF THE WSDOT STANDARD SPECIFICATIONS.
2. LOCATE LOW FLOW CHANNEL AT CENTER OF CHANNEL IN TANGENT SECTIONS AND AT 1' OFFSET ON THE OUTSIDE OF BENDS WITH SMOOTH TRANSITIONS.




**STA 464+27 (11.0' RT)**
**STREAM #0143L**
**DETAIL** B
NOT TO SCALE




**STA 464+27 (15.7' RT)**
**STREAM 0143L**
**DETAIL** C
NOT TO SCALE




**STA 463+87 (20.5' RT)**
**STREAM 0143L**
**SECTION** D
NOT TO SCALE

| CITY OF SAMMAMISH APPROVAL | |
|---|---|
| City Engineer | Date |
| Community Development | Date |

**90 % REVIEW SUBMITTAL**
NOT FOR CONSTRUCTION

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
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| | | | |

DESIGNED C. BUITRAGO
DRAWN B. PURGANAN
CHECKED Y. HO
APPROVED J. BAILEY

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME RL1521075P19T03FP–01
JOB No. 554–1521–075 P19 T03
DATE FEBRUARY 2019

PRELIMINARY
CRAIG ALEXANDER BUITRAGO · STATE OF WASHINGTON · 49427 · REGISTERED PROFESSIONAL ENGINEER


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P 206.394.3700
WWW.PARAMETRIX.COM


PROJECT NAME
**EAST LAKE SAMMAMISH MASTER PLAN TRAIL SOUTH SAMMAMISH SEGMENT B**
SAMMAMISH, WA

# FISH PASSAGE CULVERTS

SHEET NO. 169 OF 274
**FP11**


PATH: U:\PSO\Projects\Clients\1521–KingCo\554–1521–075–ELST\99Svcs\CADD\Phase 19\T03 Civil\Dwg\
PLOTTED BY: purgabut DATE: Wednesday, February 27, 2019 9:01:31 PM
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