


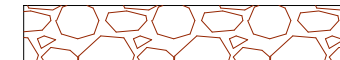

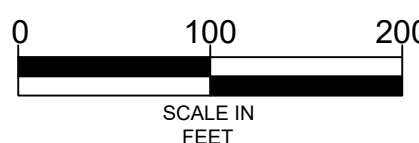


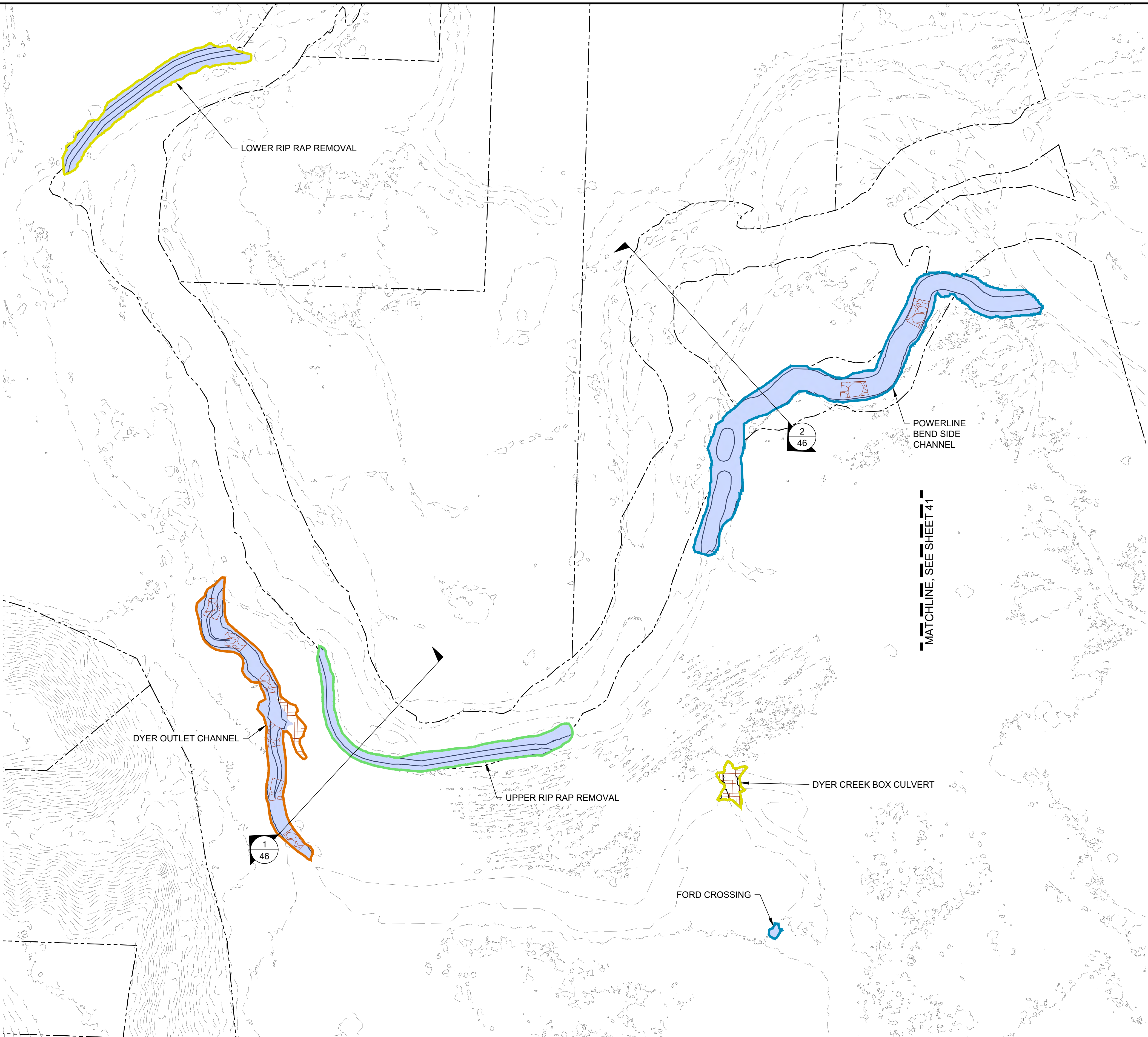
**LEGEND**

-  EXISTING 5' CONTOUR
-  PROPOSED 5' CONTOUR
-  CUT
-  FILL: RIFFLE MIX (SEE DETAIL 1, SHEET 53)
-  FILL: NO TREATMENT



**EARTHWORK NOTES:**

1. THE CUT AND FILL HATCHES SHOWN ON THIS SHEET ARE APPROXIMATE LIMITS, AND RELATIVELY SMALL ZONES OF CUT OR FILL MAY NOT BE DEPICTED TO IMPROVE DRAWING CLARITY.
2. THE CUT AND FILL HATCHES ARE BASED ON A NEATLINE COMPARISON BETWEEN EXISTING AND PROPOSED SURFACES. SUBGRADE EXCAVATIONS ARE NOT DEPICTED ON THESE SHEETS.
3. THE COLORED BORDERS AROUND CUT AND FILL HATCHES ARE USED TO DEPICT SUB-REGIONS AND DO NOT INDICATE ADDITIONAL EARTHWORK.
4. REFER TO THE EARTHWORK QUANTITY TABLE ON SHEET 4 FOR ESTIMATED CUT AND FILL AREAS AND VOLUMES. THIS TABLE ALSO INCLUDES AN ENGINEER'S ESTIMATE OF THE COARSE SUBSTRATE VOLUME THAT IS ANTICIPATED TO BE SOURCED FROM EACH REGION, AS WELL AS THE ESTIMATED VOLUME OF COARSE MATERIAL REQUIRED TO COMPLETE THE WORK.
5. THE DYER CREEK AREAS LISTED ON THE EARTHWORK TABLE INCLUDES THE DYER OUTLET CHANNEL, DYER CREEK BOX CULVERT, FORD CROSSING, AND DYER CREEK BERM REMOVAL (ON NEXT SHEET).
6. WITHIN EXCAVATED SEGMENTS OF THE PROPOSED CHANNELS, THE EXPOSED NATIVE (IN-SITU) SUBSTRATE AT THE DEPTH OF THE PROPOSED CHANNEL BED SHALL BE VISUALLY INSPECTED BY THE ENGINEER TO DETERMINE IF SUPPLEMENTAL STREAMBED SUBSTRATE MATERIAL AND/OR RIFFLE MATERIAL WILL NEED TO BE PLACED.
7. WHEN SUPPLEMENTAL COARSE SUBSTRATE MATERIAL IS DEEMED NECESSARY, THE MATERIAL SHALL BE SOURCED FROM WITHIN THE PROJECT AREA AND MATCH THE MATERIAL TYPES AND DEPTHS LISTED BELOW.
  - 7.1. STREAMBED SUBSTRATE: MIN 3 FT DEPTH, TYP (REFER TO SHEET 49 FOR MORE INFORMATION).
  - 7.2. RIFFLE MIX: MIN 4 FT DEPTH, TYP (REFER TO SHEET 53 FOR MORE INFORMATION).



MATCHLINE, SEE SHEET 41

| NO. | BY | DATE | REVISION DESCRIPTION |
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| JR, NS<br>DRAWN | MR, GJ<br>DESIGNED | ----<br>CHECKED |
|                 | AUGUST 2024        |                 |
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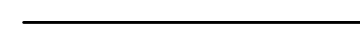

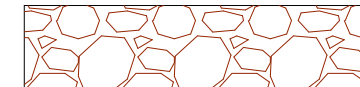
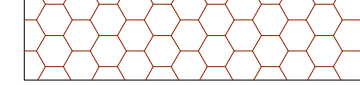


**LOWER COLUMBIA ESTUARY PARTNERSHIP  
EAST FORK LEWIS RIVER  
RECONNECTION PROJECT**

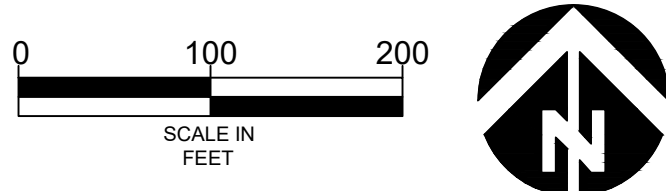


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**EARTHWORK WEST FLOODPLAIN**

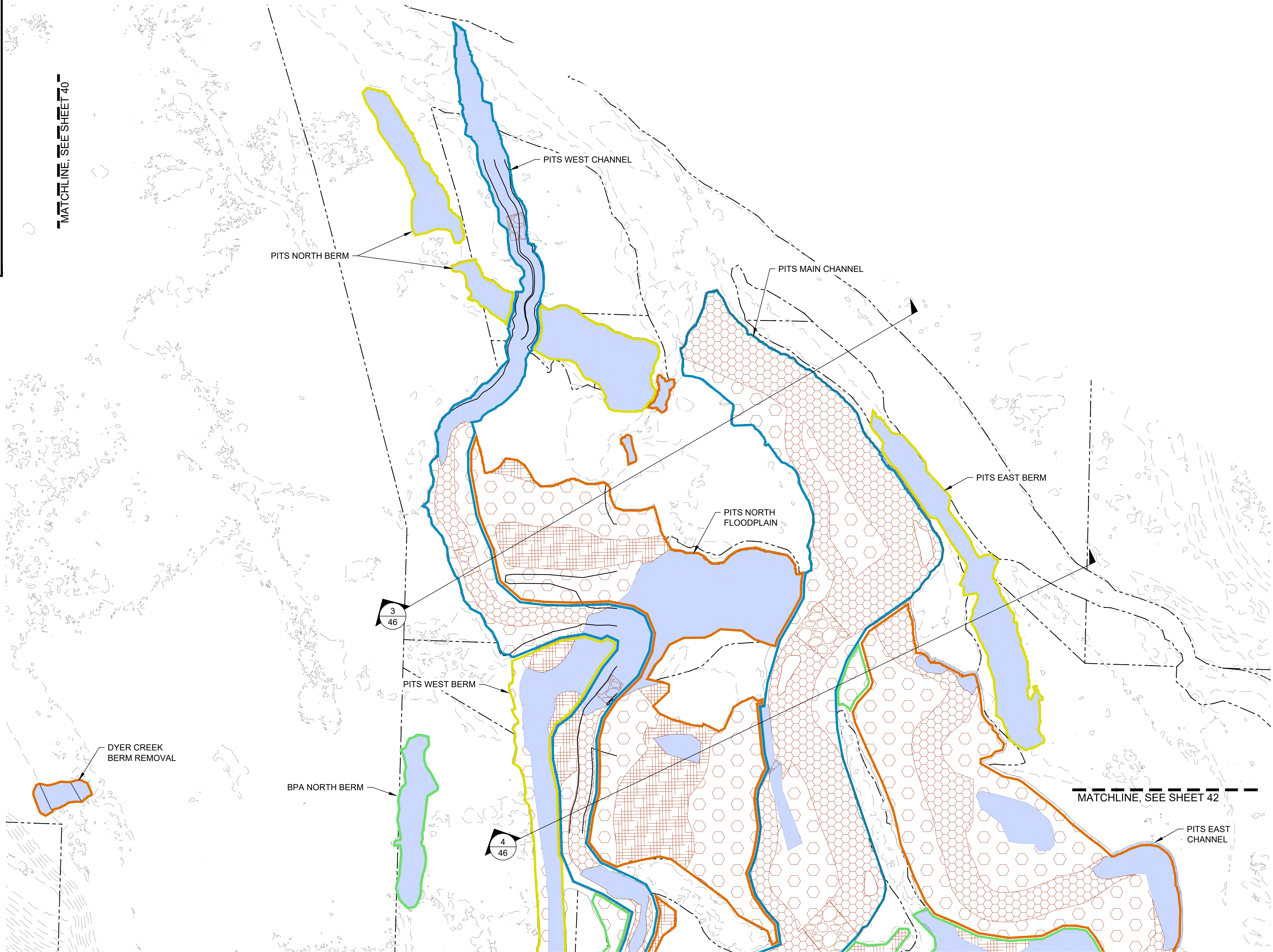
**LEGEND**

-  EXISTING 5' CONTOUR
-  PROPOSED 5' CONTOUR
-  CUT
-  FILL: RIFFLE MIX (SEE DETAIL 1, SHEET 53)
-  FILL: STREAMBED SUBSTRATE
-  FILL: GRAVEL BAR MIX
-  FILL: NO TREATMENT



**EARTHWORK NOTES:**

1. THE CUT AND FILL HATCHES SHOWN ON THIS SHEET ARE APPROXIMATE LIMITS, AND RELATIVELY SMALL ZONES OF CUT OR FILL MAY NOT BE DEPICTED TO IMPROVE DRAWING CLARITY.
2. THE CUT AND FILL HATCHES ARE BASED ON A NEATLINE COMPARISON BETWEEN EXISTING AND PROPOSED SURFACES. SUBGRADE EXCAVATIONS ARE NOT DEPICTED ON THESE SHEETS.
3. THE COLORED BORDERS AROUND CUT AND FILL HATCHES ARE USED TO DEPICT SUB-REGIONS AND DO NOT INDICATE ADDITIONAL EARTHWORK.
4. REFER TO THE EARTHWORK QUANTITY TABLE ON SHEET 4 FOR ESTIMATED CUT AND FILL AREAS AND VOLUMES. THIS TABLE ALSO INCLUDES AN ENGINEER'S ESTIMATE OF THE COARSE SUBSTRATE VOLUME THAT IS ANTICIPATED TO BE SOURCED FROM EACH REGION, AS WELL AS THE ESTIMATED VOLUME OF COARSE MATERIAL REQUIRED TO COMPLETE THE WORK.
5. WITHIN EXCAVATED SEGMENTS OF THE PROPOSED CHANNELS, THE EXPOSED NATIVE (IN-SITU) SUBSTRATE AT THE DEPTH OF THE PROPOSED CHANNEL BED SHALL BE VISUALLY INSPECTED BY THE ENGINEER TO DETERMINE IF SUPPLEMENTAL STREAMBED SUBSTRATE MATERIAL AND/OR RIFFLE MATERIAL WILL NEED TO BE PLACED.
6. WHEN SUPPLEMENTAL COARSE OR FINE SUBSTRATE MATERIAL IS DEEMED NECESSARY, THE MATERIAL SHALL BE SOURCED FROM WITHIN THE PROJECT AREA AND MATCH THE MATERIAL TYPES AND DEPTHS LISTED BELOW.
  - 6.1. STREAMBED SUBSTRATE: MIN 3 FT DEPTH, TYP (REFER TO SHEET 49 FOR MORE INFORMATION).
  - 6.2. RIFFLE MIX: MIN 4 FT DEPTH, TYP (REFER TO SHEET 53 FOR MORE INFORMATION).
  - 6.3. GRAVEL BAR MIX: 50 TO 70% STREAMBED SUBSTRATE MIXED WITH FINER GRAVELS AND SOILS TO A MIN DEPTH OF 3 FT, TYP.
  - 6.4. SOIL AMENDMENT: MIN 4-INCH DEPTH OF SALVAGED FINER GRAINED SOILS PLACE ON TOP OF MASS GRADED SURFACE AND RIPPED INTO THE FLOODPLAIN TO A MIN DEPTH OF 12 INCHES TO IMPROVE GROWING MEDIUM.



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| JR, NS<br>DRAWN | MR, GJ<br>DESIGNED | ---<br>CHECKED |
| ---             | AUGUST 2024        | ---            |
| ---             | DATE               | PROJECT        |




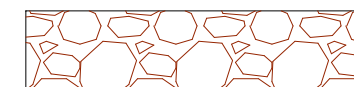



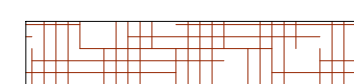
LOWER COLUMBIA ESTUARY PARTNERSHIP  
EAST FORK LEWIS RIVER  
RECONNECTION PROJECT

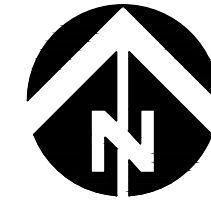
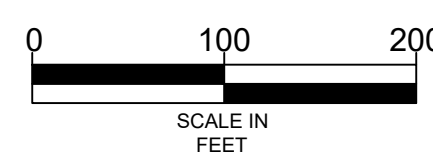


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**EARTHWORK LOWER CORE PITS**

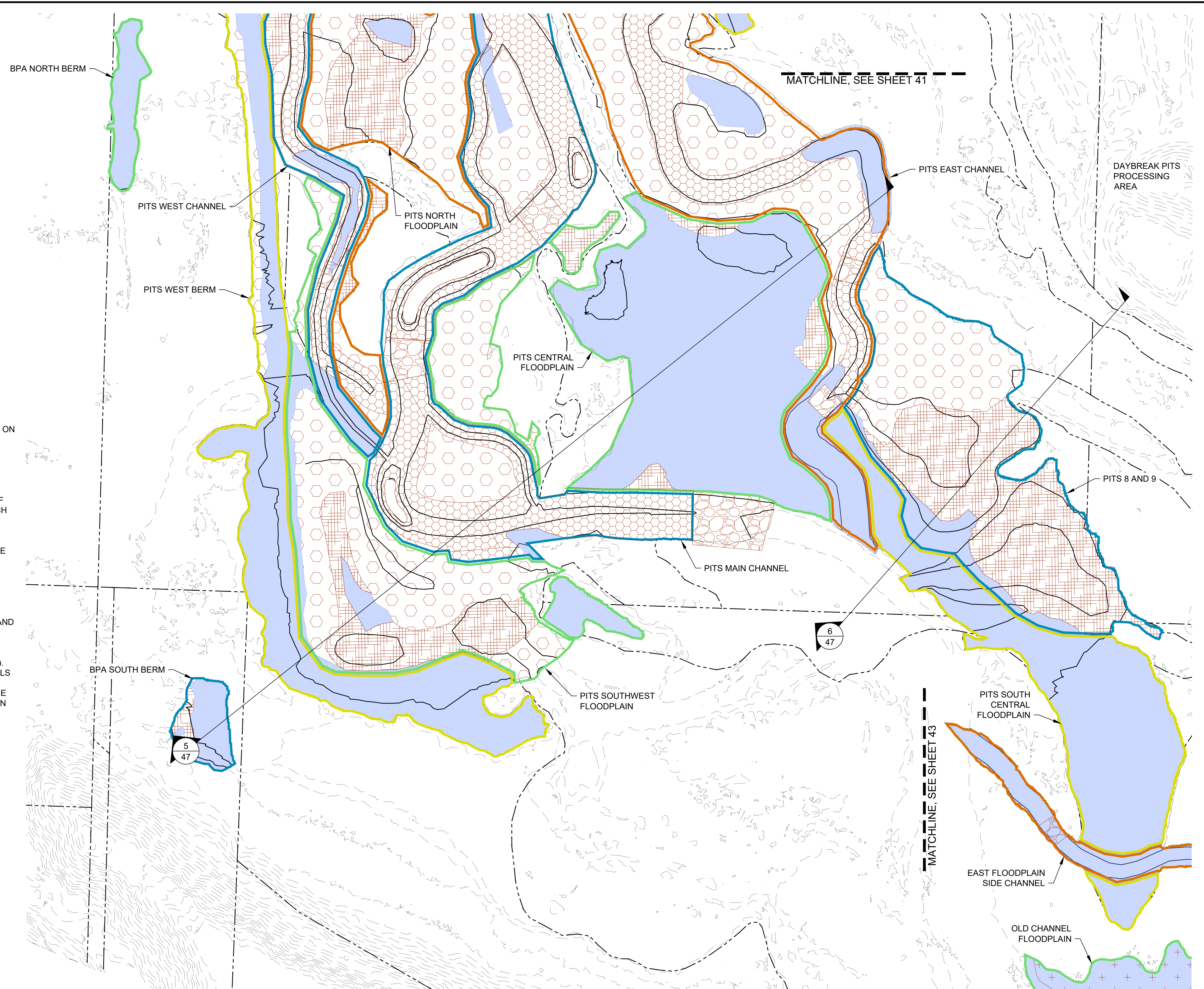
### LEGEND

-  EXISTING 5' CONTOUR
-  PROPOSED 5' CONTOUR
-  CUT
-  FILL: RIFFLE MIX (SEE DETAIL 1, SHEET 53)
-  FILL: STREAMBED SUBSTRATE
-  FILL: GRAVEL BAR MIX
-  FILL: SOIL AMENDMENT
-  FILL: NO TREATMENT



### EARTHWORK NOTES:

1. THE CUT AND FILL HATCHES SHOWN ON THIS SHEET ARE APPROXIMATE LIMITS, AND RELATIVELY SMALL ZONES OF CUT OR FILL MAY NOT BE DEPICTED TO IMPROVE DRAWING CLARITY.
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  - 6.1. STREAMBED SUBSTRATE: MIN 3 FT DEPTH, TYP (REFER TO SHEET 49 FOR MORE INFORMATION).
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  - 6.4. SOIL AMENDMENT: MIN 4-INCH DEPTH OF SALVAGED FINER GRAINED SOILS PLACE ON TOP OF MASS GRADED SURFACE AND RIPPED INTO THE FLOODPLAIN TO A MIN DEPTH OF 12 INCHES TO IMPROVE GROWING MEDIUM.



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| JR, NS<br>DRAWN | MR, GJ<br>DESIGNED | ---<br>CHECKED |
| ---             | AUGUST 2024        | ---            |
| ---             | DATE               | PROJECT        |

LOWER COLUMBIA ESTUARY PARTNERSHIP  
EAST FORK LEWIS RIVER  
RECONNECTION PROJECT



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EARTHWORK UPPER CORE PITS

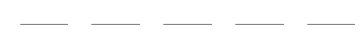
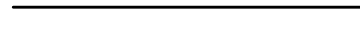

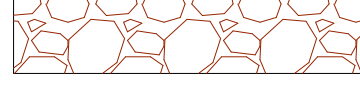



SHEET  
42 OF 67

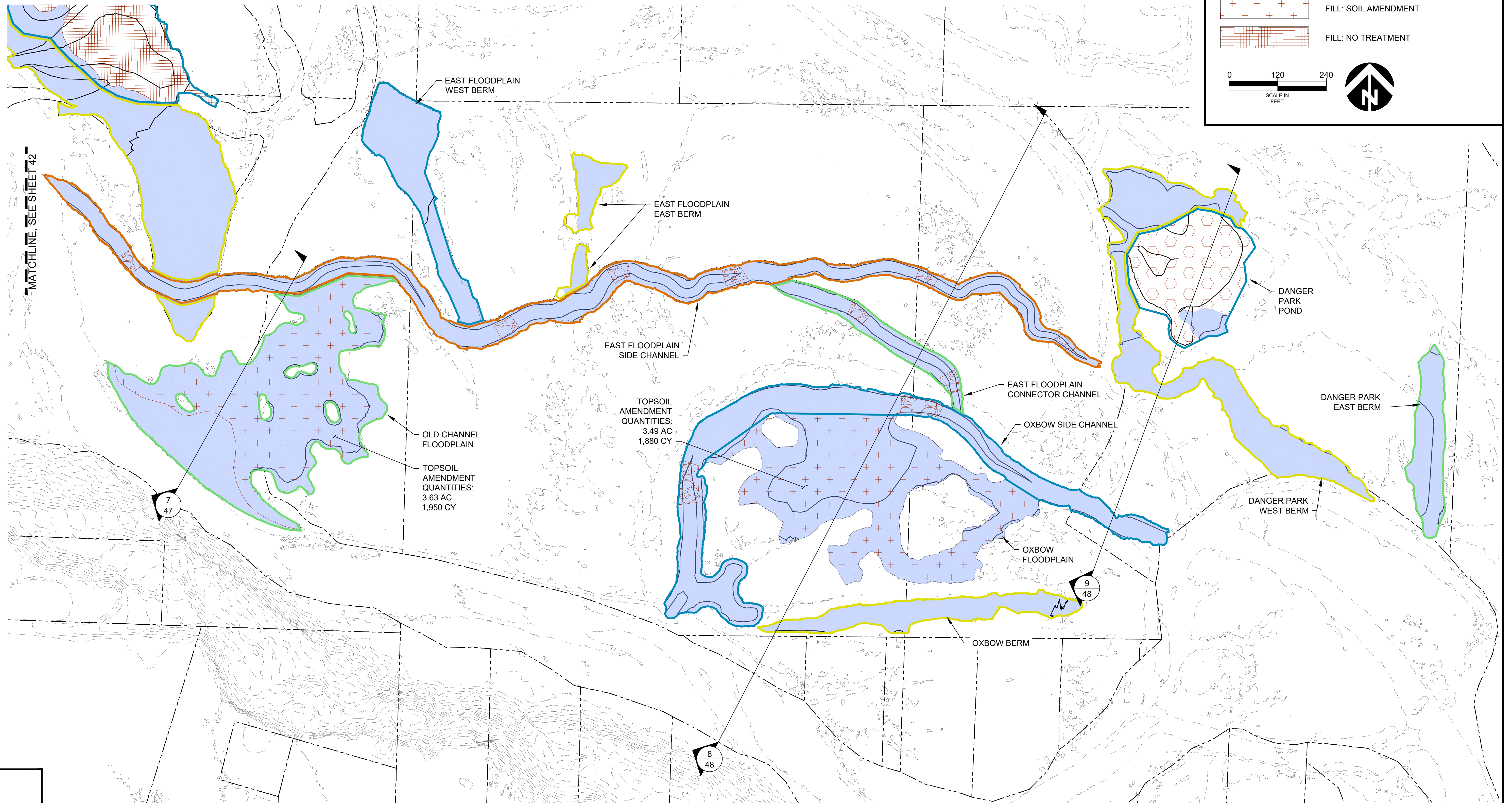
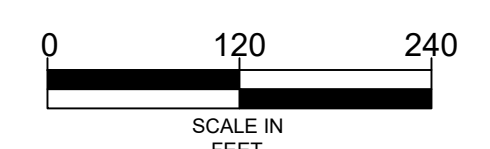
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  - 6.3. SOIL AMENDMENT: MIN 4-INCH DEPTH OF SALVAGED FINER GRAINED SOILS PLACE ON TOP OF MASS GRADED SURFACE AND RIPPED INTO THE FLOODPLAIN TO A MIN DEPTH OF 12 INCHES TO IMPROVE GROWING MEDIUM.

**LEGEND**

-  EXISTING 5' CONTOUR
-  PROPOSED 5' CONTOUR
-  CUT
-  FILL: RIFFLE MIX (SEE DETAIL 1, SHEET 53)
-  FILL: GRAVEL BAR MIX
-  FILL: SOIL AMENDMENT
-  FILL: NO TREATMENT



| NO. | BY | DATE | REVISION DESCRIPTION |
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| JR, NS   | MR, GJ      | ---     |
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| ---      | AUGUST 2024 | ---     |
| APPROVED | DATE        | PROJECT |

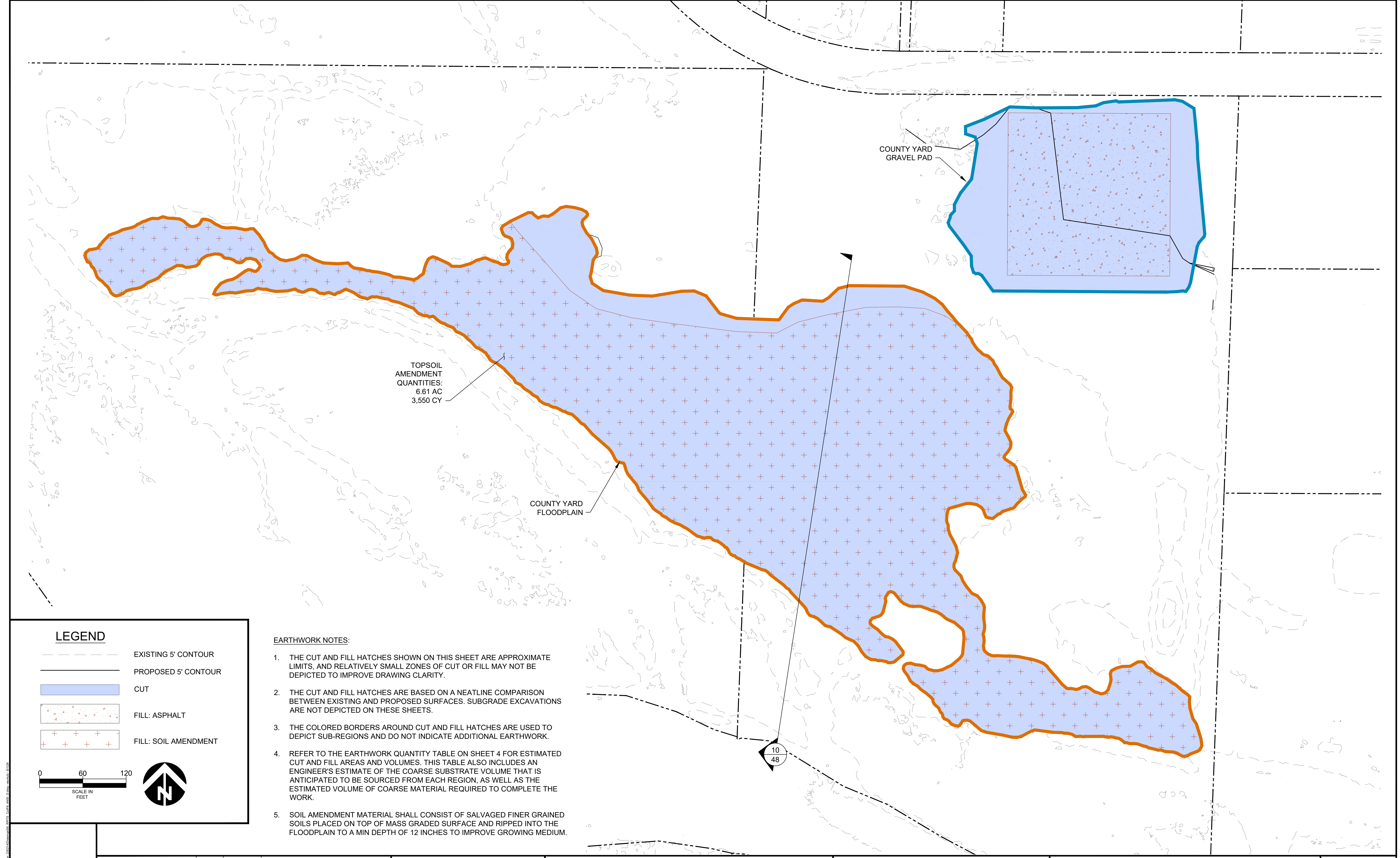
LOWER COLUMBIA ESTUARY PARTNERSHIP  
EAST FORK LEWIS RIVER  
RECONNECTION PROJECT



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**EARTHWORK EAST FLOODPLAIN**

SHEET  
43 OF 67



COUNTY YARD GRAVEL PAD

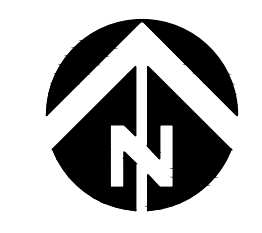
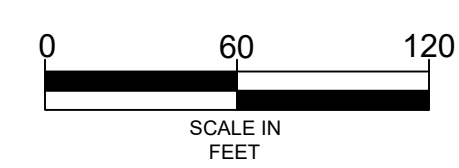
TOPSOIL AMENDMENT QUANTITIES:  
6.61 AC  
3,550 CY

COUNTY YARD FLOODPLAIN

10  
48

**LEGEND**

- EXISTING 5' CONTOUR
- PROPOSED 5' CONTOUR
- CUT
- FILL: ASPHALT
- FILL: SOIL AMENDMENT



**EARTHWORK NOTES:**

1. THE CUT AND FILL HATCHES SHOWN ON THIS SHEET ARE APPROXIMATE LIMITS, AND RELATIVELY SMALL ZONES OF CUT OR FILL MAY NOT BE DEPICTED TO IMPROVE DRAWING CLARITY.
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5. SOIL AMENDMENT MATERIAL SHALL CONSIST OF SALVAGED FINER GRAINED SOILS PLACED ON TOP OF MASS GRADED SURFACE AND RIPPED INTO THE FLOODPLAIN TO A MIN DEPTH OF 12 INCHES TO IMPROVE GROWING MEDIUM.

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| JR, NS   | MR, GJ      | ---     |
| DRAWN    | DESIGNED    | CHECKED |
| ---      | AUGUST 2024 | ---     |
| APPROVED | DATE        | PROJECT |

LOWER COLUMBIA ESTUARY PARTNERSHIP  
EAST FORK LEWIS RIVER  
RECONNECTION PROJECT


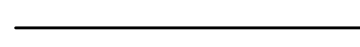

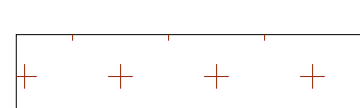
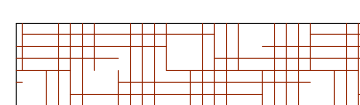
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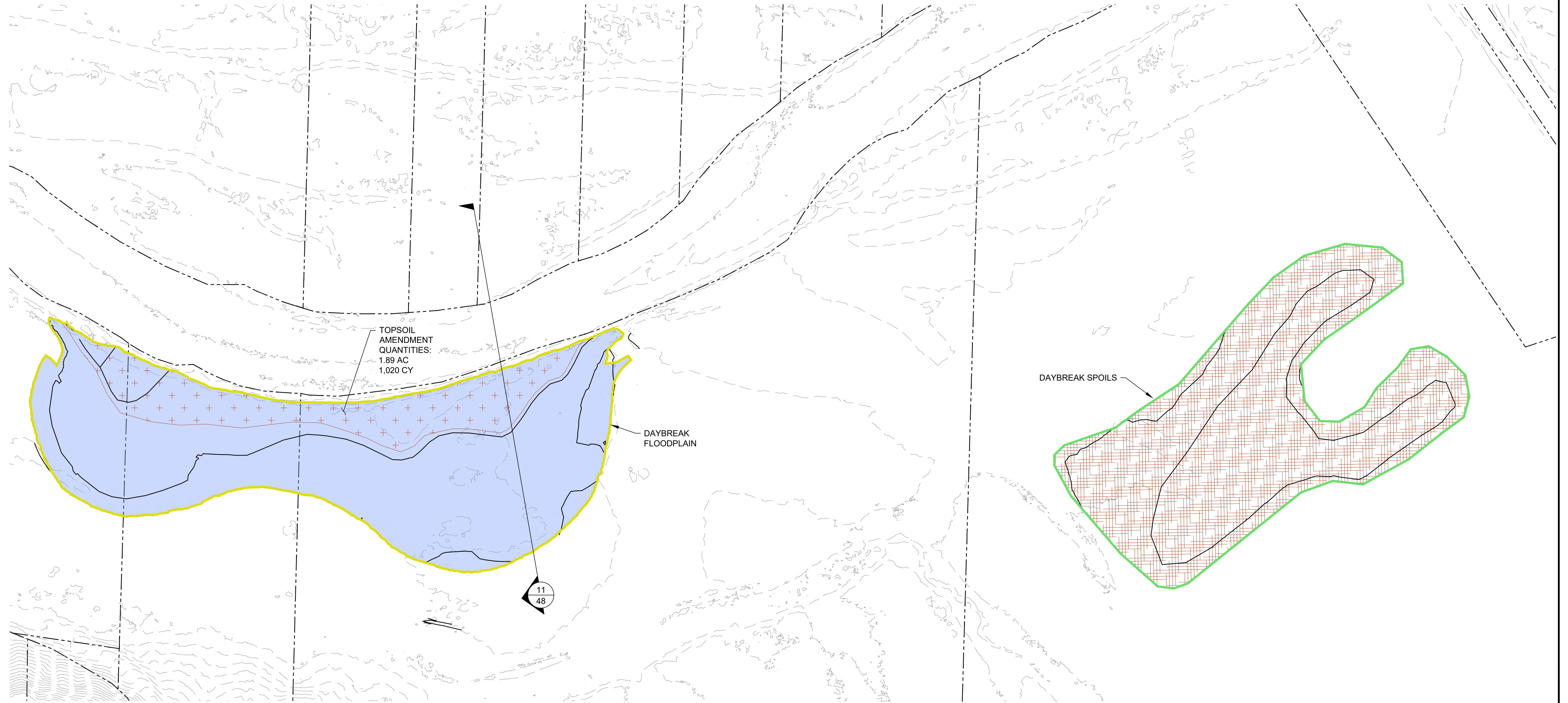
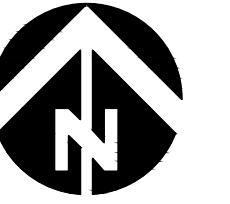
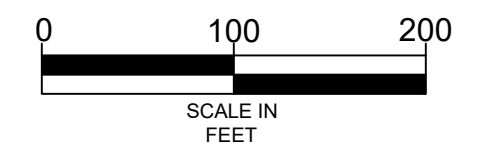
**EARTHWORK COUNTY YARD**

**EARTHWORK NOTES:**

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5. SOIL AMENDMENT MATERIAL SHALL CONSIST OF SALVAGED FINER GRAINED SOILS PLACED ON TOP OF MASS GRADED SURFACE AND RIPPED INTO THE FLOODPLAIN TO A MIN DEPTH OF 12 INCHES TO IMPROVE GROWING MEDIUM.
6. THE DAYBREAK SPOILS MATERIAL SHALL HAVE A MIN 6-INCH THICK TOP LAYER OF SALVAGED TOPSOIL.

**LEGEND**

-  EXISTING 5' CONTOUR
-  PROPOSED 5' CONTOUR
-  CUT
-  FILL: SOIL AMENDMENT
-  FILL: NO TREATMENT



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| JR, NS   | MR, GJ      | ---     |
| DRAWN    | DESIGNED    | CHECKED |
| ---      | AUGUST 2024 | ---     |
| APPROVED | DATE        | PROJECT |

LOWER COLUMBIA ESTUARY PARTNERSHIP  
 EAST FORK LEWIS RIVER  
 RECONNECTION PROJECT



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EARTHWORK DAYBREAK TRAIL

SHEET  
 45 OF 67