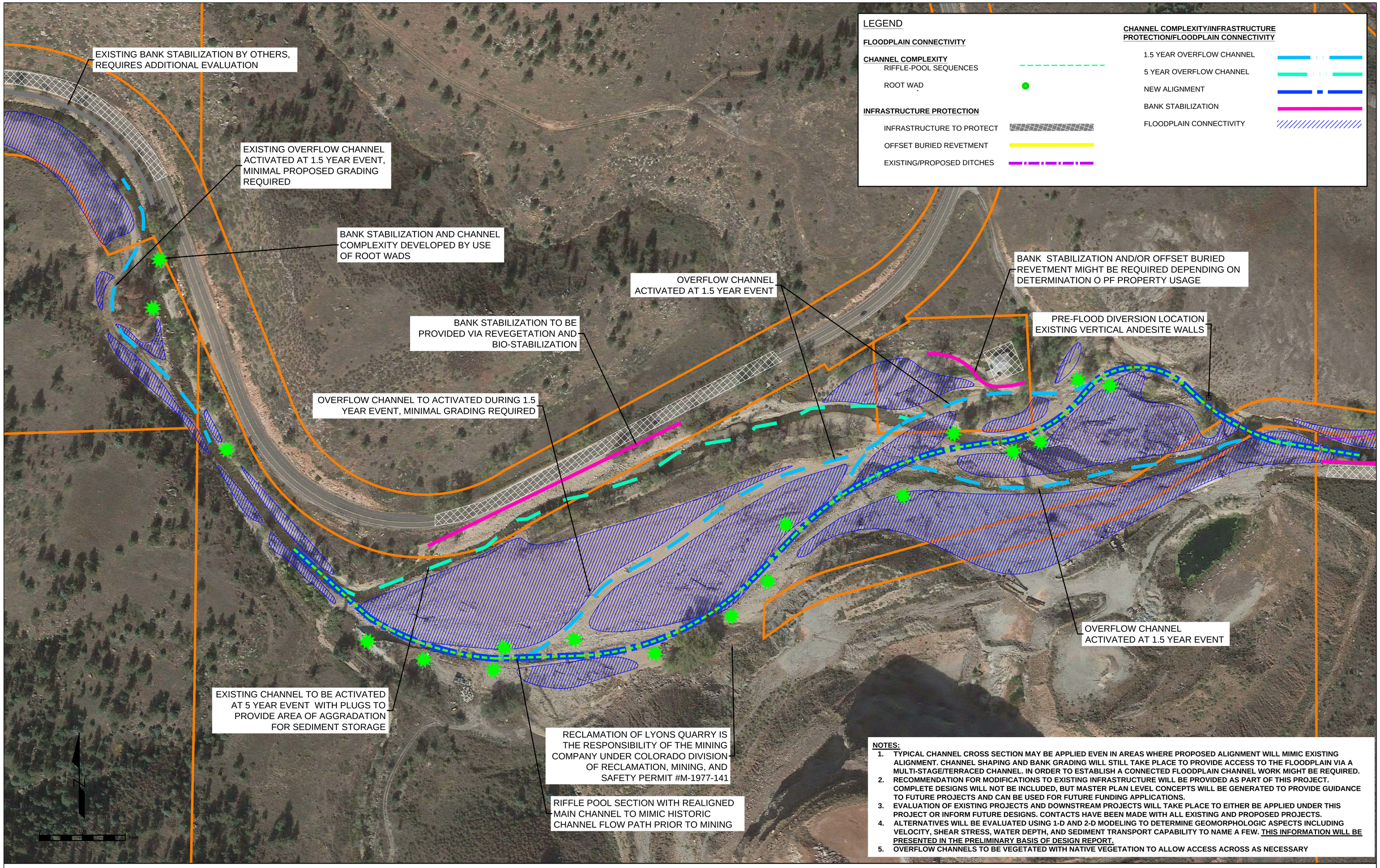

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SOUTH ST. VRAIN CREEK RESTORATION

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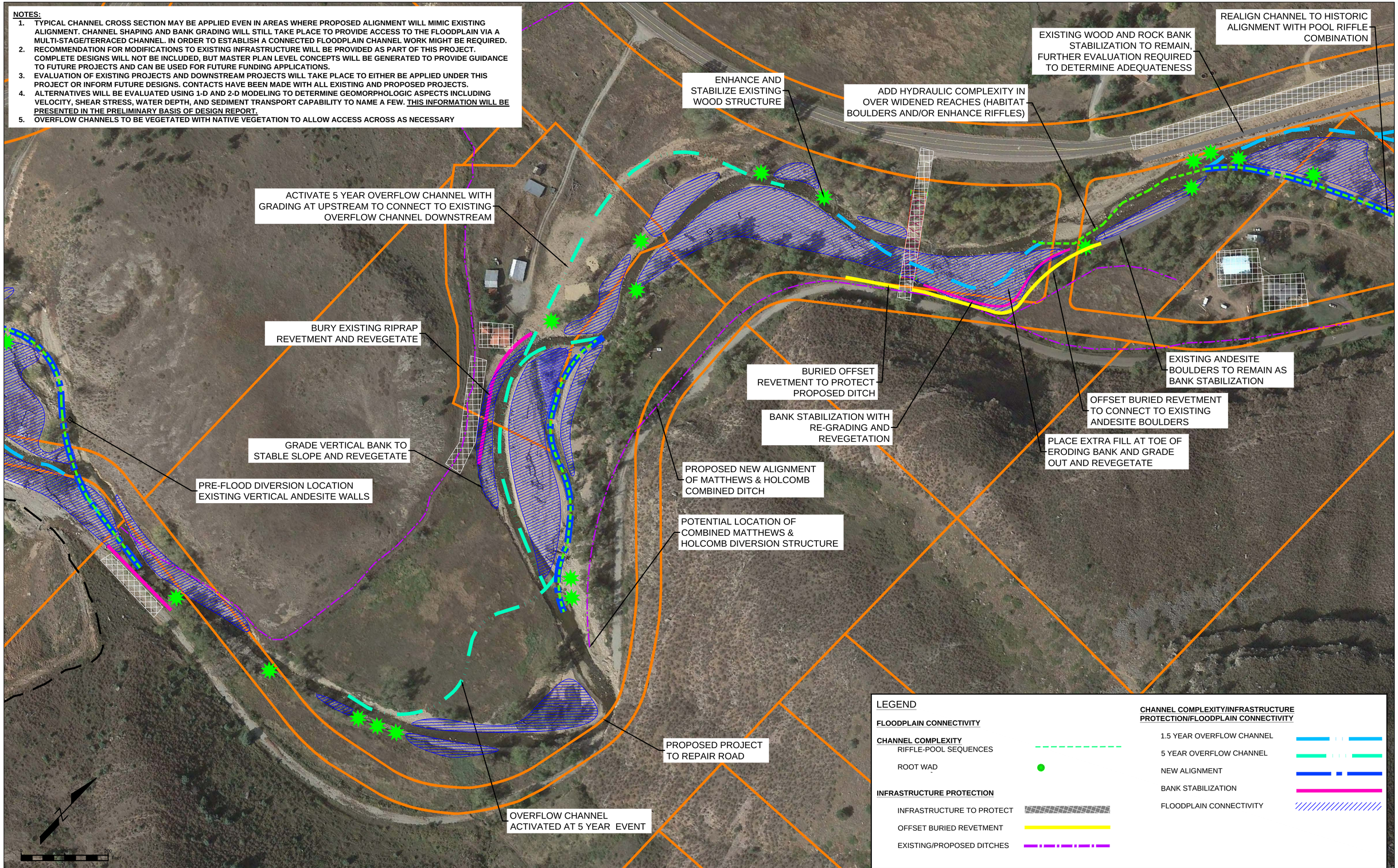

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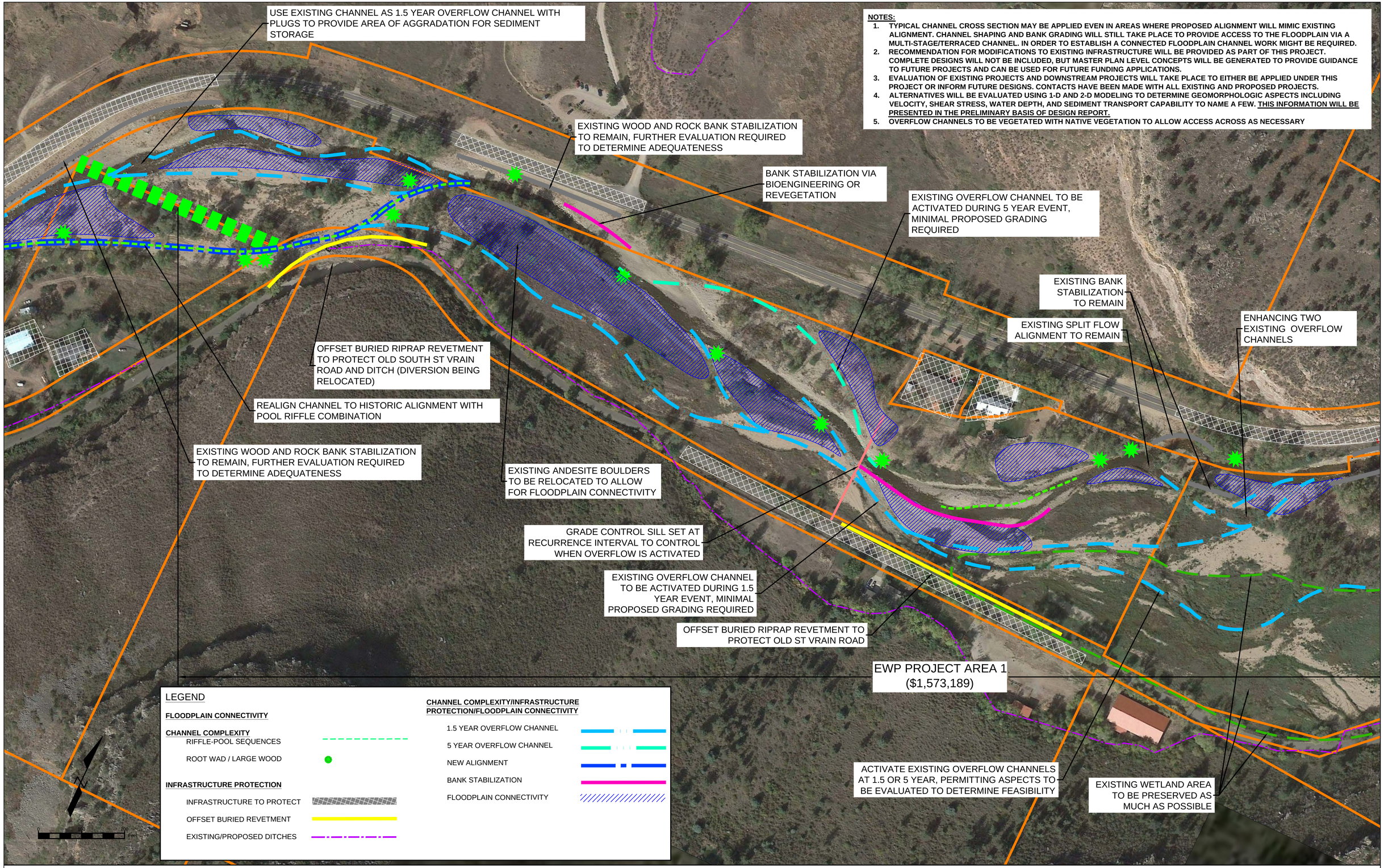

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SPLIT FLOW ALIGNMENT TO REMAIN

POTENTIAL FUTURE RELOCATION OF DIVERSION UPSTREAM OR INSTALL SLOPING STRUCTURE DOWNSTREAM (NOT DESIGNED AS PART OF THIS PROJECT)

STABILIZE BANK UPSTREAM OF BEDROCK OUTCROPPING WITH BIOENGINEERING AND REVEGETATION

OFFSET BURIED RIPRAP PROTECTION TO PROTECT ROAD EMBANKMENT

CHANNEL COMPLEXITY WITH USE OF VANE TO REDUCE SEDIMENT LOADING AT DIVERSION

USE HISTORICAL CHANNEL ALIGNMENT AS OVERFLOW CHANNEL DURING THE 5 YEAR EVENT

EXISTING BANK STABILIZATION TO REMAIN

ENHANCING TWO EXISTING OVERFLOW CHANNELS

EXISTING SPLIT FLOW ALIGNMENT TO REMAIN

EXISTING BANK STABILIZATION VIA LOGS AND ROOTWADS TO REMAIN

PROTECT EXISTING INFRASTRUCTURE CROSSING UNDER OVERFLOW CHANNEL

BURIED OFFSET RIPRAP REVETMENT TO PROTECT DITCH AND NEW INFRASTRUCTURE

BANK STABILIZATION VIA BIOENGINEERING AND REVEGETATION (REMOVE CONSTRUCTION DEBRIS PREVIOUSLY PLACED)

PROVIDE ROAD CROSS SLOPE TOWARDS CREEK AND TIE INTO HILL SLOPE, PROVIDE DRAINAGE OUTLET TO CREEK

EVALUATE EXISTING BANK STABILIZATION AND INCREASE IF NECESSARY

POTENTIAL FUTURE RELOCATION OF DIVERSION STRUCTURE AWAY FROM INSIDE OF BEND TO REDUCE SEDIMENT AND ALLOW RIVER ROOM AND/OR INSTALL SEDIMENT REMOVAL DEVICE (NOT TO BE DESIGNED AS PART OF THIS PROJECT)

EWP PROJECT AREA 1
($1,573,189)

ACTIVATE EXISTING OVERFLOW CHANNELS AT 1.5 OR 5 YEAR, PERMITTING ASPECTS TO BE EVALUATED TO DETERMINE FEASIBILITY, CHANNEL WORK TO TAKE PLACE FOR CONVEYANCE AND GRADE CONTROL

SELECTIVE GRADING IN FLOODPLAIN TO INCREASE FLOW CONNECTIVITY TO LOW LYING AREAS AS NECESSARY

PRESERVE EXISTING WETLAND AREA AS MUCH AS POSSIBLE

0 100 200 Feet

LEGEND

FLOODPLAIN CONNECTIVITY

CHANNEL COMPLEXITY

RIFFLE-POOL SEQUENCES

ROOT WAD / LARGE WOOD

INFRASTRUCTURE PROTECTION

INFRASTRUCTURE TO PROTECT

OFFSET BURIED REVETMENT

EXISTING/PROPOSED DITCHES

CHANNEL COMPLEXITY/INFRASTRUCTURE PROTECTION/FLOODPLAIN CONNECTIVITY

1.5 YEAR OVERFLOW CHANNEL

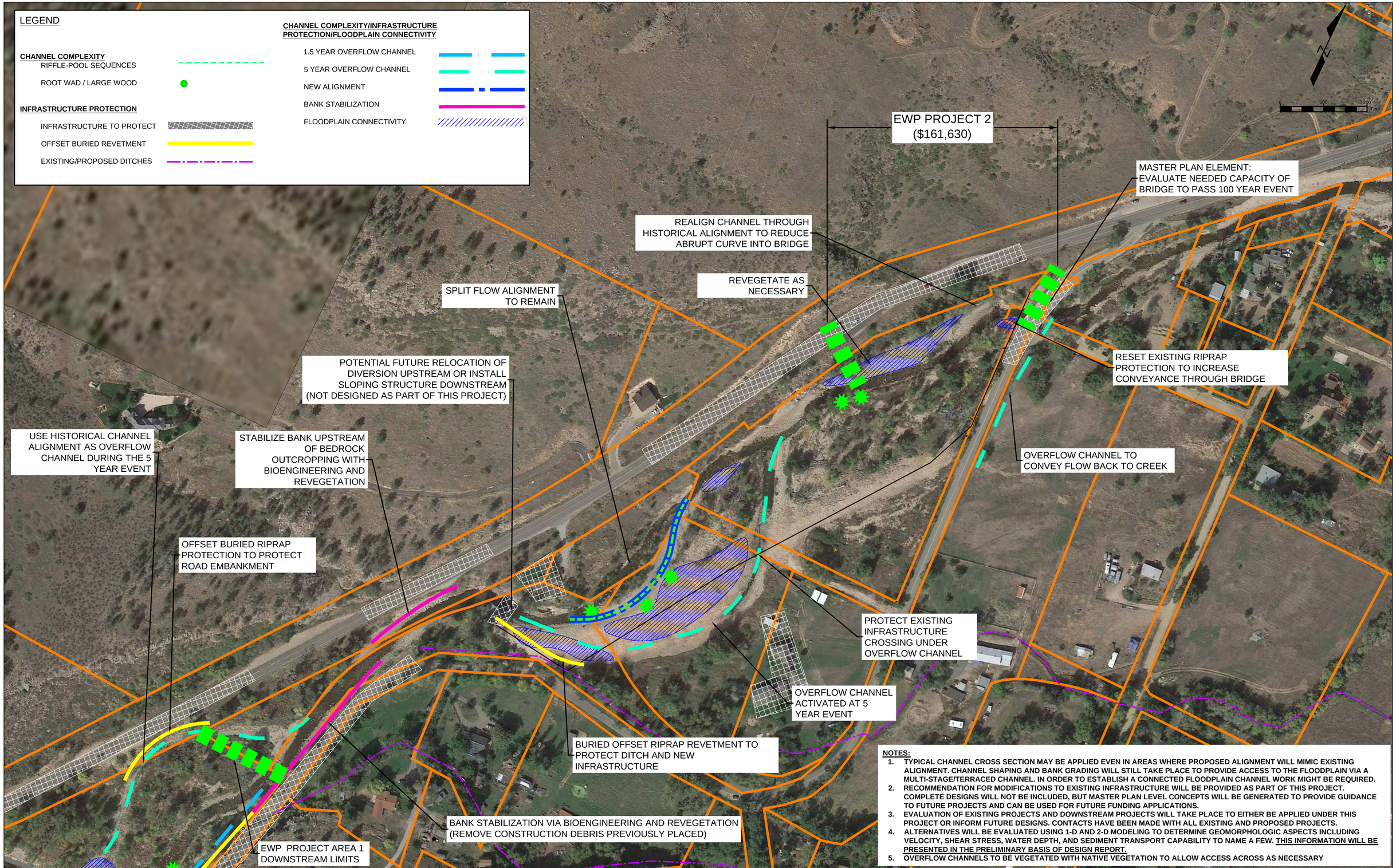
5 YEAR OVERFLOW CHANNEL

NEW ALIGNMENT

BANK STABILIZATION

FLOODPLAIN CONNECTIVITY

SOUTH ST. VRAIN CREEK RESTORATION



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