



PROJECT LOCATION MAP

PROJECT LOCATION

LATITUDE 40° 29' 12.2568"N LONGITUDE -106° 50' 18.9924"W

PROJECT OWNER: CITY OF STEAMBOAT SPRINGS
137 10TH STREET
STEAMBOAT SPRINGS, CO
80487

FRIENDS OF THE YAMPA
STEAMBOAT SPRINGS, CO

ENGINEER: GARY M. LACY, P.E.
RECREATION ENGINEERING AND PLANNING
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INFO@BOATERPARKS.COM

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"A" HOLE AND TOOTS HOLE
RECONSTRUCTION

CITY OF STEAMBOAT SPRINGS
137 10TH STREET
STEAMBOAT SPRINGS, CO 80487
FRIENDS OF THE YAMPA
STEAMBOAT SPRINGS, CO

PROJECT OVERVIEW MAP
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PRELIMINARY (NOT FOR CONSTRUCTION)

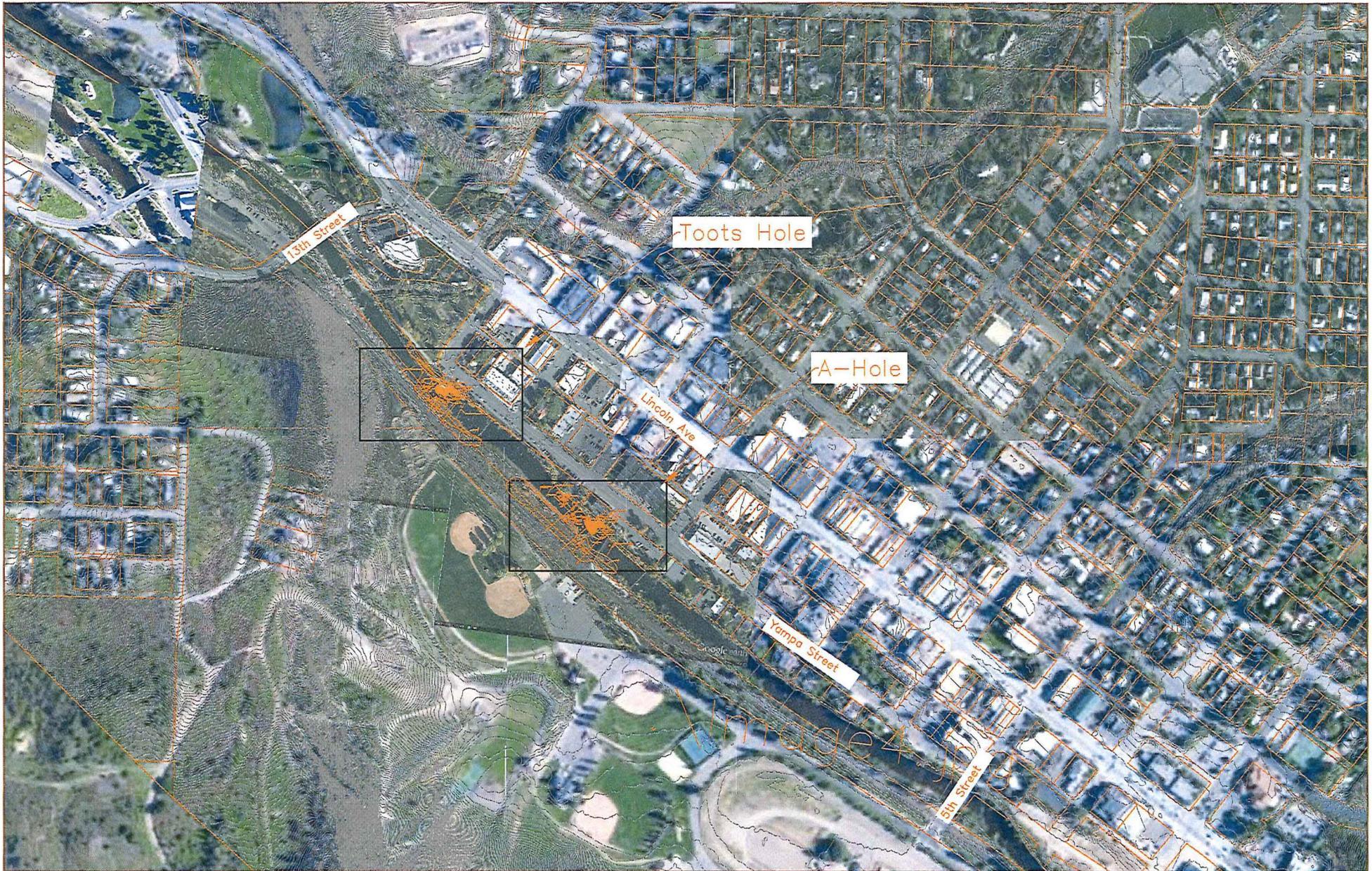


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"A" HOLE AND TOOTS HOLE

RECONSTRUCTION

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PROJECT PLAN VIEW

SCALE: 1"=500'



0 500



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A

A'



"A" HOLE AND TOOTS HOLE RECONSTRUCTION

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"A" HOLE PLAN VIEW

SCALE: 1"=20'



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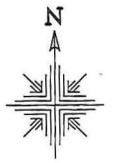


A'

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"A" HOLE PLAN VIEW

SCALE: 1"=20'

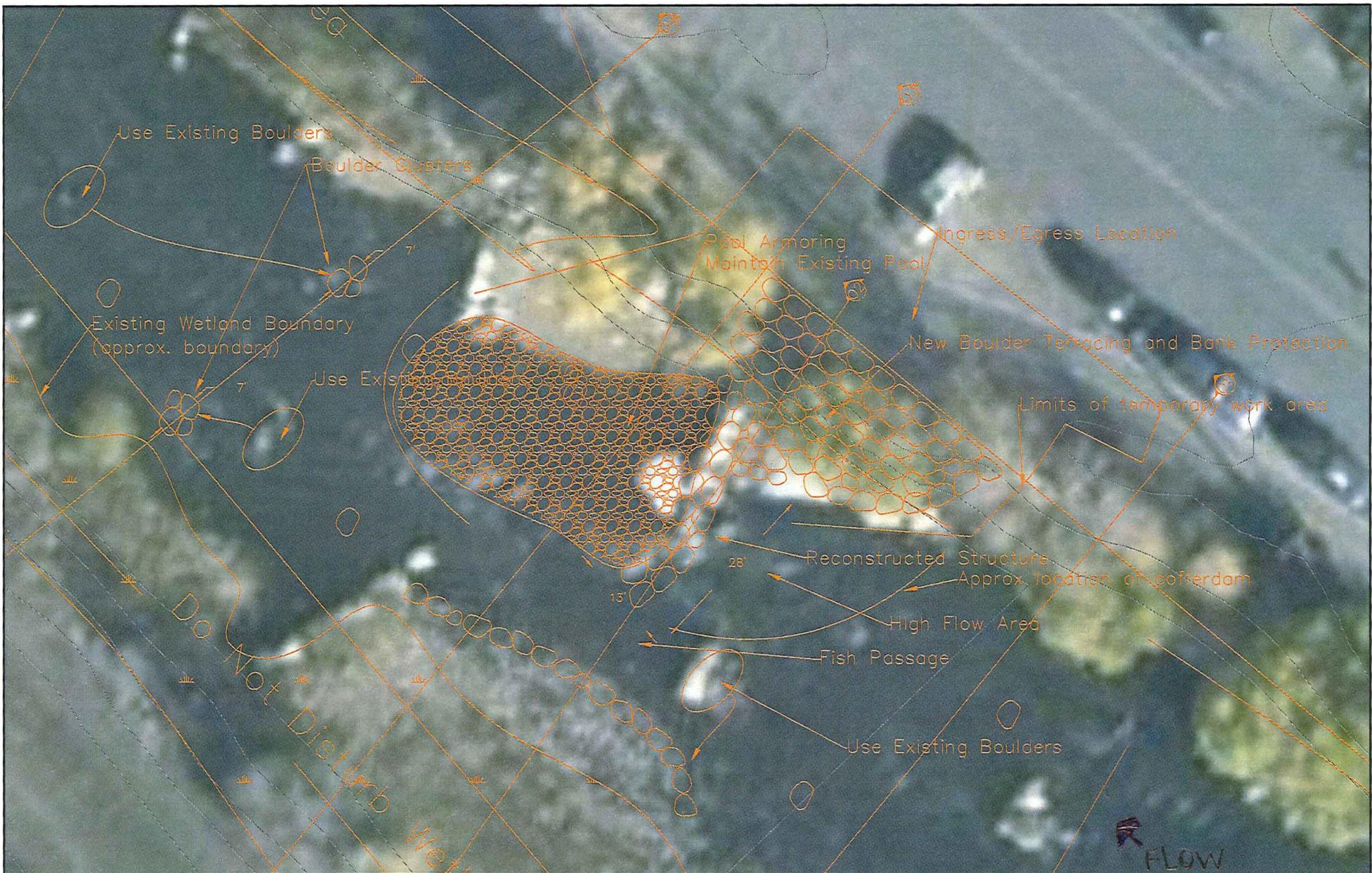


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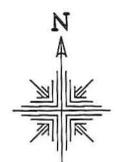




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TOOTS HOLE PLAN VIEW

SCALE: 1"=20'



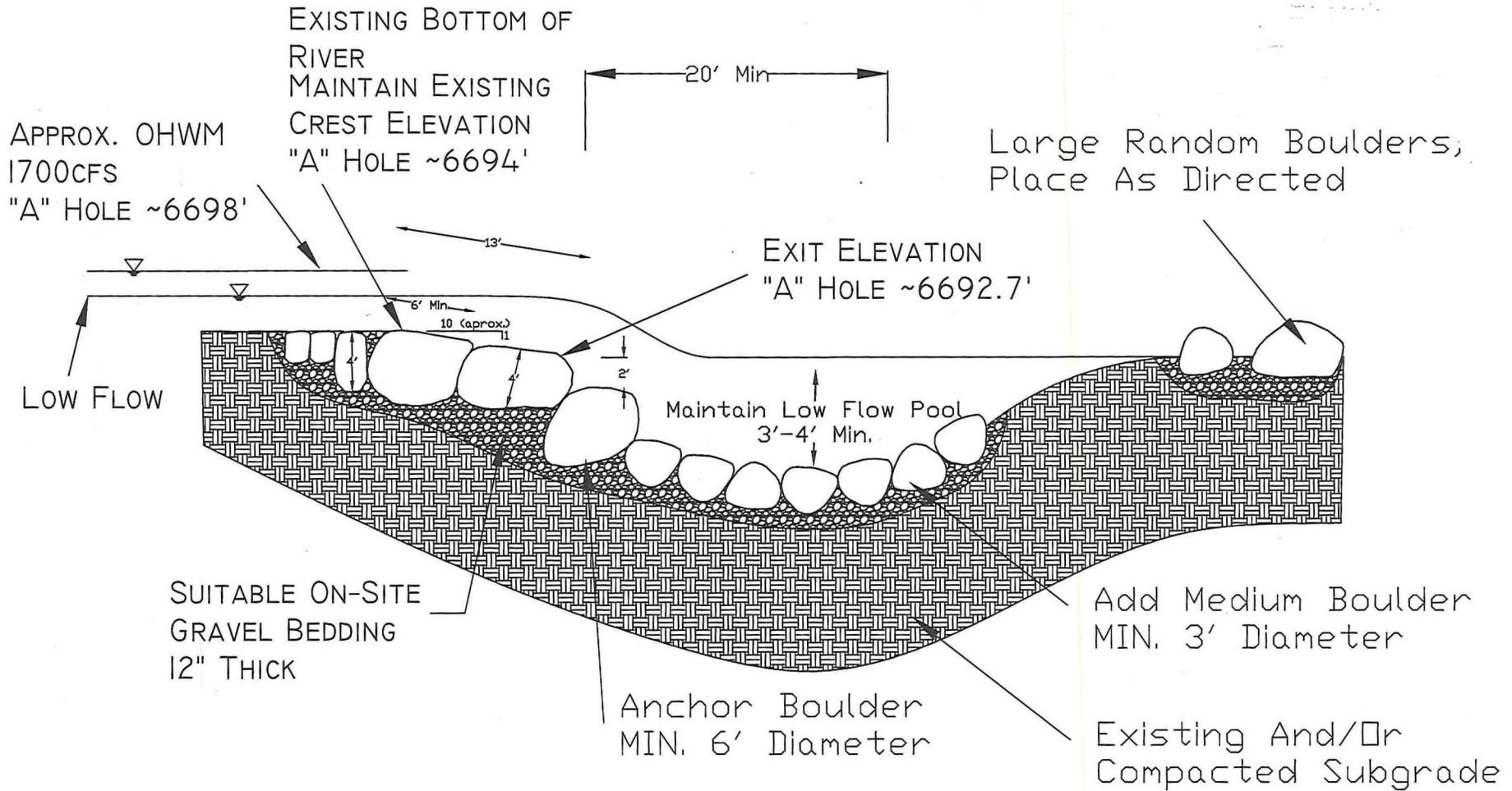
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"A" HOLE PROFILE VIEW



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"A" HOLE PROFILE VIEW

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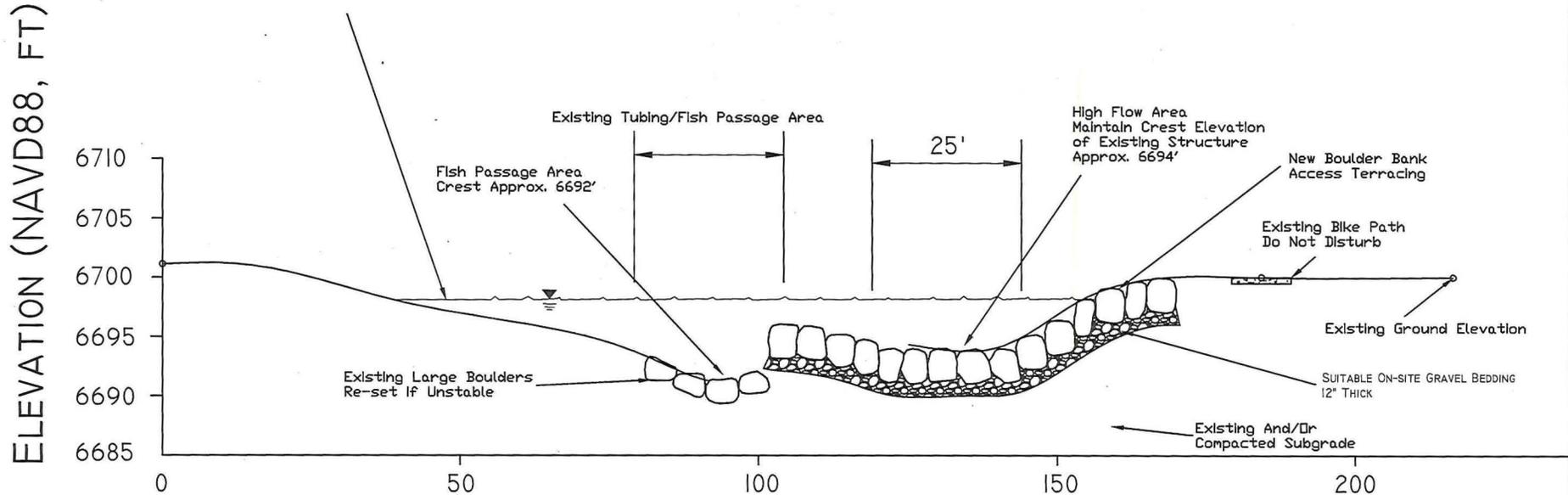
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A2 - CROSS SECTION OF A-HOLE

APPROX. OHWM 6698'
 APPROX. 1700CFS

VERTICAL EXAGGERATION 2X



DISTANCE FROM LEFT END OF CROSS SECTION (FT)
 LOOKING DOWNSTREAM

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"A" HOLE CROSS SECTION VIEW

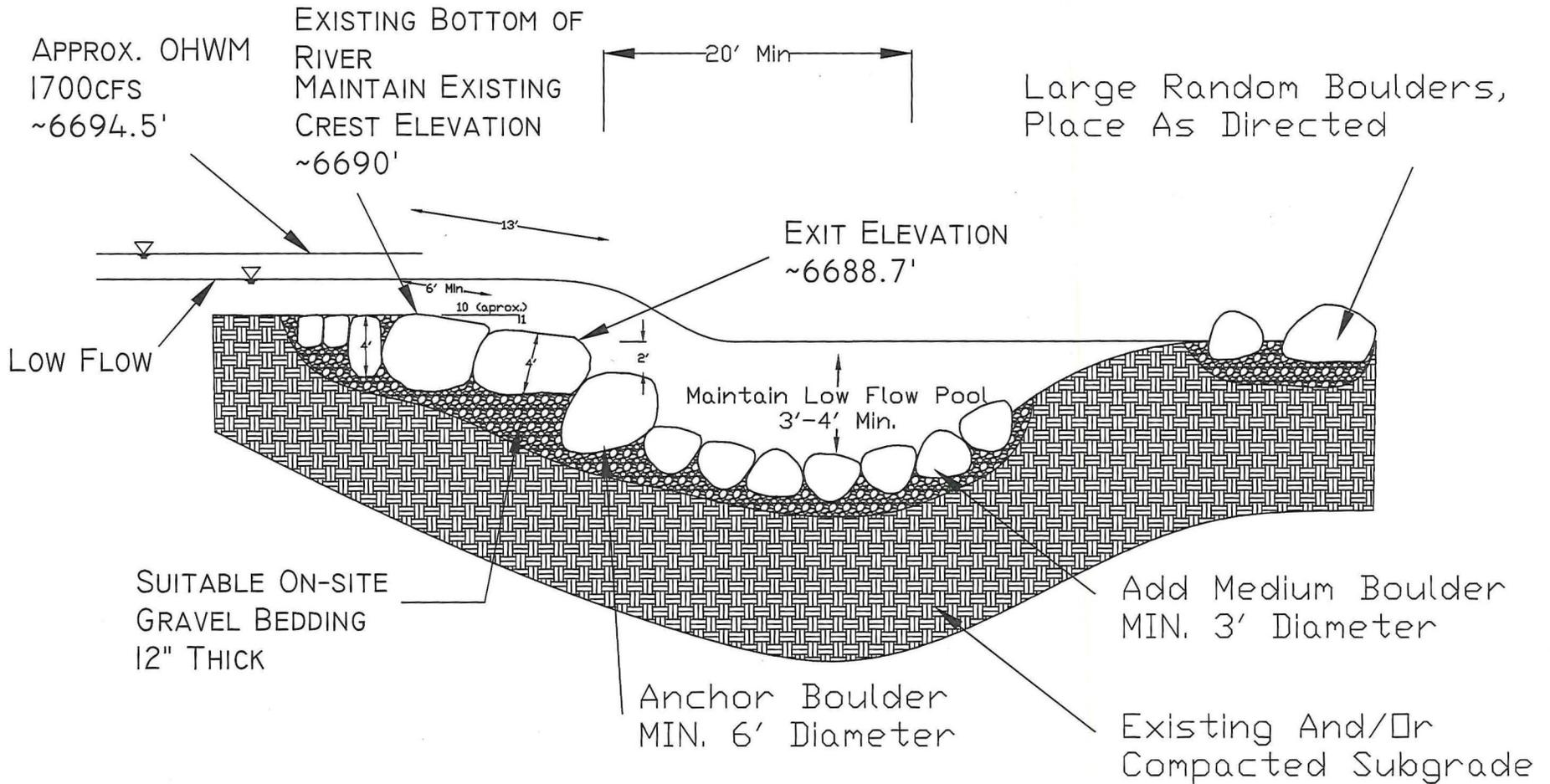
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TOOTS HOLE PROFILE VIEW



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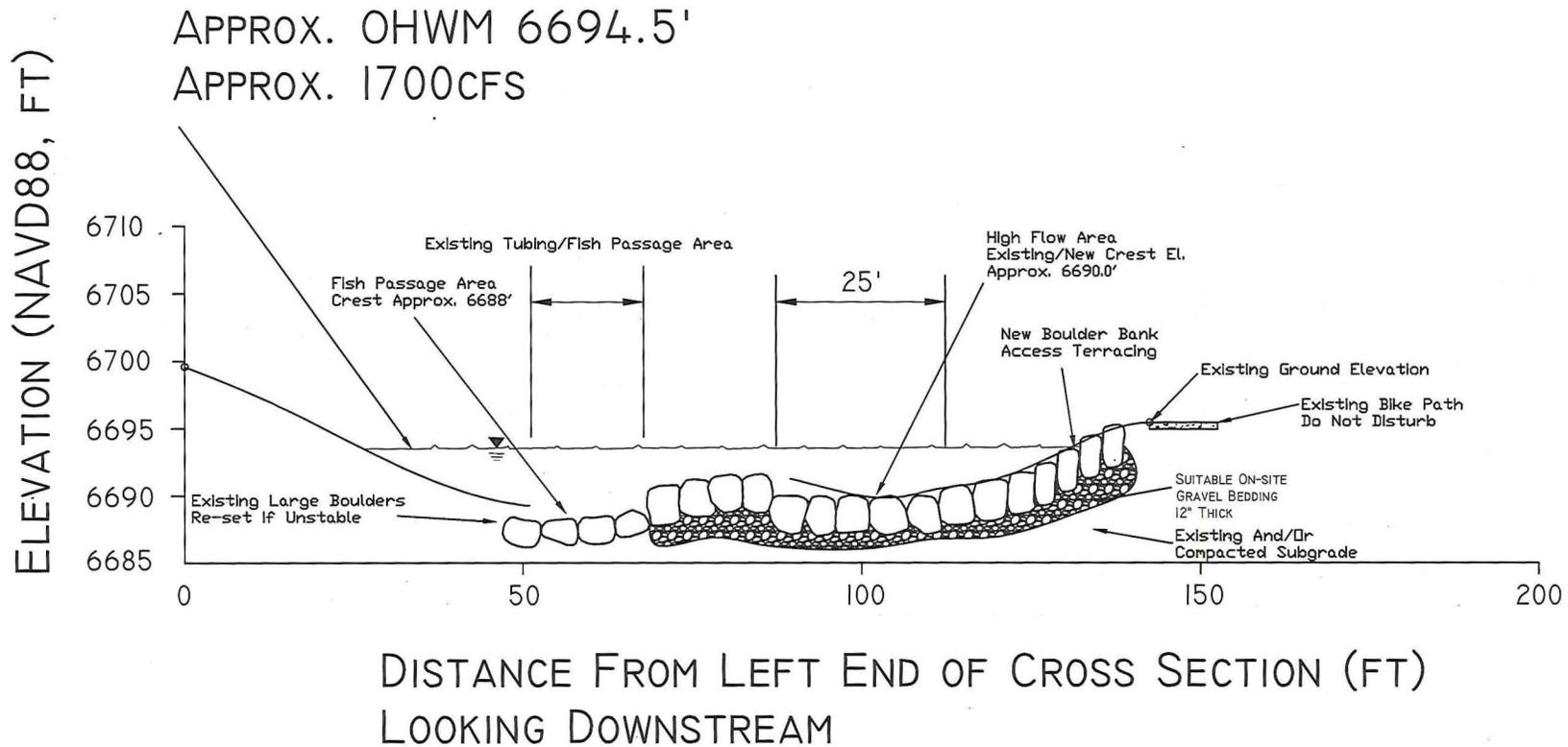
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02 - CROSS SECTION OF TOOTS HOLE

VERTICAL EXAGGERATION 2X



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TOOTS HOLE CROSS SECTION VIEW

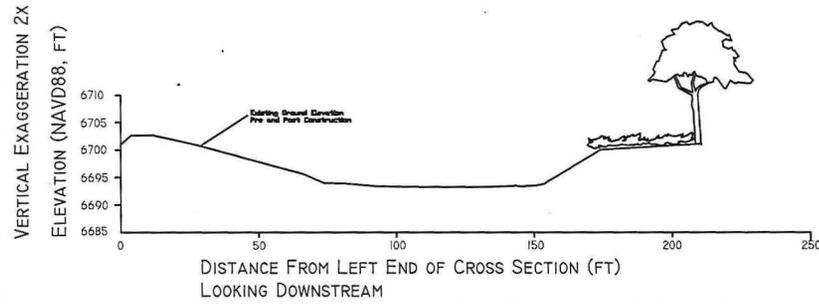
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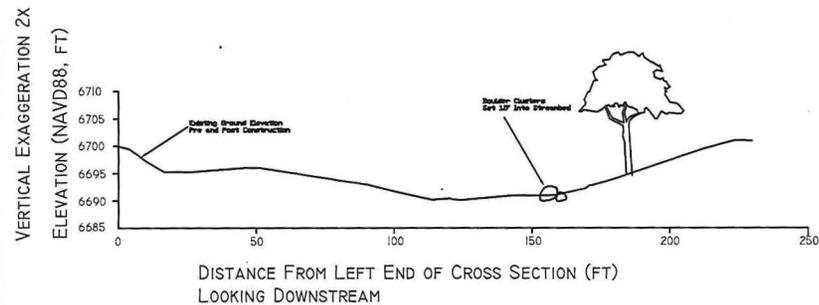
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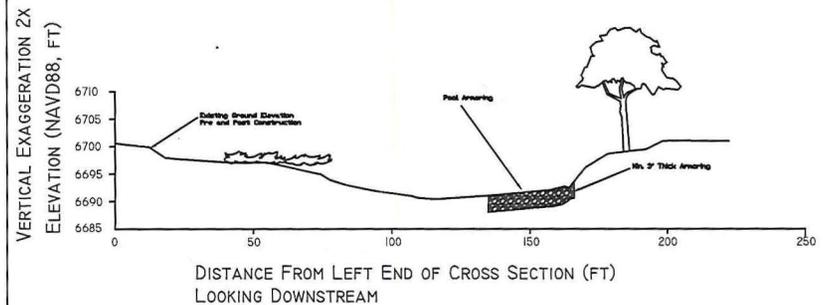
A1 - CROSS SECTION UPSTREAM OF A-HOLE



A4 - CROSS SECTION DOWNSTREAM OF A-HOLE



A3 - CROSS SECTION OF A-HOLE POOL



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"A" HOLE EXTRA CROSS SECTIONS

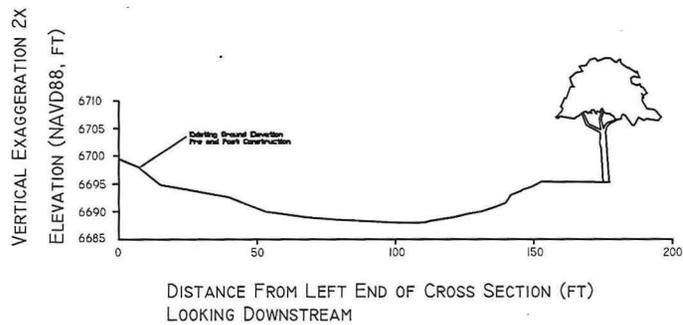
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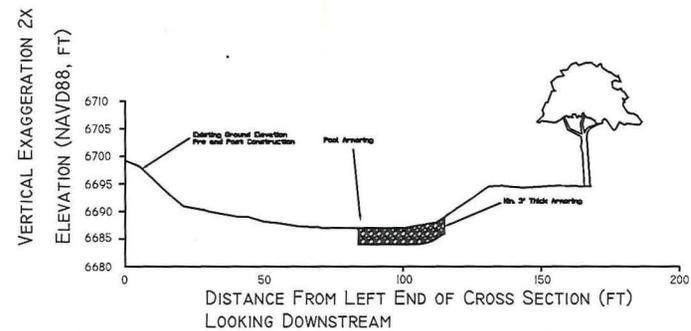
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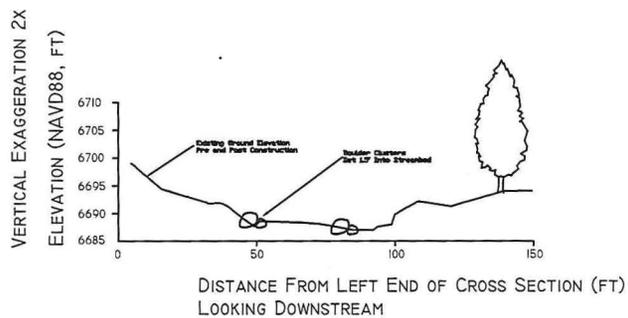
01 - CROSS SECTION UPSTREAM OF TOOTS HOLE



03 - CROSS SECTION OF TOOTS HOLE POOL



04 - CROSS SECTION DOWNSTREAM OF TOOTS HOLE



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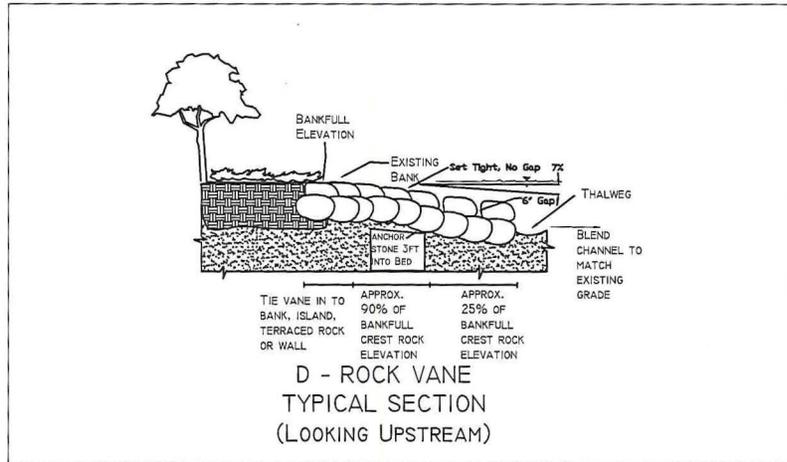
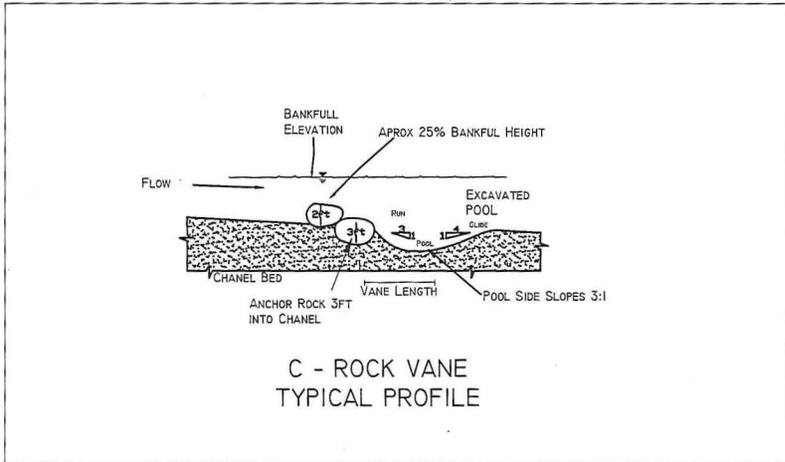
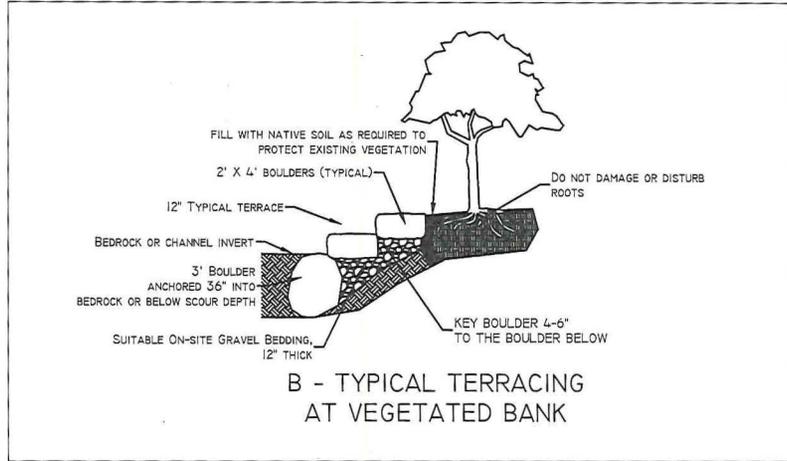
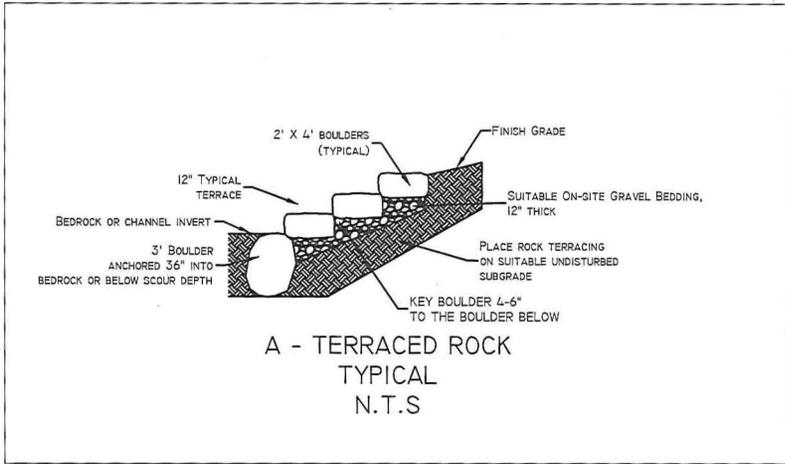
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TYPICAL AND SECTION VIEWS

No SCALE

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GENERAL NOTES

ENGINEERS OVERSIGHT

- ALL ELEVATIONS, DIMENSIONS, ALIGNMENTS AND ORIENTATION OF ALL ELEMENTS SHOWN IN THE PLANS MUST BE APPROVED BY THE ENGINEER OR ENGINEER'S REPRESENTATIVE (REP ENGINEER OR REP REPRESENTATIVE)
- WORK SHALL NOT COMMENCE UNTIL AFTER THE DATE OF THE ON-SITE PRE-CONSTRUCTION MEETING WHICH WILL BE ATTENDED BY REPRESENTATIVES OF THE PROJECT OWNER, ENGINEER, CONTRACTOR AND ANY SUB-CONTRACTORS. IN THE EVENT THAT WORK DOES NOT BEGIN IMMEDIATELY FOLLOWING THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL PROVIDE REPRESENTATIVES OF THE PROJECT OWNER, REP ENGINEER, ANY SUB-CONTRACTORS, AND RELEVANT AGENCIES NOTED IN THE PERMIT, TWO WEEKS NOTICE BEFORE CONSTRUCTION COMMENCES.

GENERAL ENVIRONMENTAL

- WORK SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL AGENCIES' LAWS, RULES, REGULATIONS, AND PERMITS. ALL WORK SHALL BE SUBJECT TO INSPECTIONS AND SITE INVESTIGATION BY REGULATORY AGENCIES. FAILURE TO COMPLY WITH THESE REGULATIONS IS SUBJECT TO LEGAL ENFORCEMENT ACTION.
- COPIES OF PERMITS OBTAINED BY THE OWNER WILL BE PROVIDED TO THE CONTRACTOR. CONTRACTOR SHALL MAINTAIN COPIES OF ALL PERMITS ON THE SITE AT ALL TIMES.
- A PRE-CONSTRUCTION MEETING WITH EQUIPMENT OPERATORS SHALL BE HELD TO DISCUSS THE PROJECT ENVIRONMENTAL REQUIREMENTS.
- ON-SITE CONSTRUCTION REVIEWS SHALL BE CONDUCTED TO IDENTIFY MAINTENANCE NEEDS AND CHRONIC PROBLEMS THAT MAY BE OCCURRING. APPROPRIATE REMEDIAL ACTIONS SHALL BE IMPLEMENTED IN A TIMELY MANNER.
- IF PREVIOUSLY UNKNOWN ARCHEOLOGICAL MATERIALS ARE DISCOVERED DURING CONSTRUCTION ACTIVITIES, WORK SHALL STOP IMMEDIATELY AND THE ENGINEER AND OWNER SHALL BE CONTACTED.

SEDIMENT AND POLLUTION CONTROL

- ALL APPROPRIATE MEASURES SHALL BE IN PLACE TO MINIMIZE SEDIMENTATION AND RIVERBED IMPACTS PRIOR TO INITIATING IN-RIVER / RIVERBANK WORK. SEDIMENT AND EROSION CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL STORM WATER POLLUTION PREVENTION PLAN (SWPP3) STANDARDS AND METHODS.
- CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR THE DESIGN, IMPLEMENTATION, AND MAINTENANCE OF SEDIMENT AND EROSION CONTROLS IN CONFORMANCE WITH THE REQUIREMENTS OF REGULATORY AGENCIES THROUGHOUT THE CONSTRUCTION PERIOD. STORMWATER MEASURES MAY BE REQUIRED TO BE INSTALLED AT ANY TIME DURING CONSTRUCTION AT THE DIRECTION OF THE ENGINEER OR OWNER.
- TEMPORARY SEDIMENT AND EROSION CONTROLS (E.G., TEMPORARY SEEDING, MULCHING, SILT FENCE) SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS WITHIN 2-DAYS IF THEY ARE TO REMAIN DORMANT FOR MORE THAN 21-DAYS. PERMANENT SOIL STABILIZATION (E.G., PERMANENT SEEDING, EROSION CONTROL FABRIC) SHALL BE IMPLEMENTED ON DISTURBED AREAS WITHIN 2-DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE PROJECT AREA.
- TEMPORARY SEDIMENT AND EROSION CONTROLS SHALL BE MAINTAINED TO BE FUNCTIONAL UNTIL THE SITE HAS REACHED FINAL STABILIZATION. THE PROJECT AREA SHALL BE CONSIDERED TO HAVE REACHED FINAL STABILIZATION WHEN:
 - A PERENNIAL VEGETATIVE COVER HAS GROWN TO A 70-PERCENT DENSITY THROUGHOUT THE ENTIRE DISTURBED AREA.
 - ALL TEMPORARY SEDIMENT AND EROSION CONTROLS HAVE BEEN REMOVED AND DISPOSED OF PROPERLY.
 - ALL TRAPPED SEDIMENT HAS BEEN REMOVED AND PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION.
 - ALL CONSTRUCTION ACTIVITIES HAVE CEASED.
- STEPS SHALL BE EMPLOYED THROUGHOUT THE COURSE OF THE PROJECT TO AVOID THE CREATION OF EXCESSIVE TURBIDITY WHICH MAY DEGRADE WATER QUALITY OR ADVERSELY AFFECT AQUATIC LIFE.
- MATERIALS USED IN THIS PROJECT FOR FILL OR BANK PROTECTION SHALL CONSIST OF SUITABLE MATERIAL FREE FROM TOXIC CONTAMINANTS. FILL PLACED IN STREAM SHALL CONSIST OF CLEAN, NON-ERODIBLE MATERIAL.
- SPOIL PILES SHALL BE COVERED OR OTHERWISE MANAGED TO REDUCE SEDIMENTATION. ALL MATERIAL WHICH IS TO BE PLACED AT UPLAND SITES SHALL BE DISPOSED OF IN SUCH A WAY THAT SEDIMENT RUNOFF IS CONTROLLED AND

MINIMIZED.

- CONTRACTOR SHALL NOT STORE EQUIPMENT WITHIN AREAS THAT BECOME SUBMERGED.
- ALL FUELING OPERATIONS, LUBRICATING, HYDRAULIC TIPPING OFF, FUEL TANK PURGING, AND EQUIPMENT MAINTENANCE/REPAIRS SHALL BE PERFORMED AT AN UPLAND SITE OUTSIDE OF THE BANKS OF THE RIVER AT A LOCATION TO BE DETERMINED BY THE ENGINEER OR OWNER. THESE ACTIVITIES SHALL TAKE PLACE ON AN APPROVED PAD WITH SPILL CONTROL/ COLLECTION DEVICES IN PLACE.
- ALL CONSTRUCTION EQUIPMENT SHALL BE INSPECTED DAILY FOR HYDRAULIC AND FUEL LEAKS. LEAKS SHALL BE REPAIRED PRIOR TO OPERATION WITHIN THE 100-YEAR FLOODPLAIN. WHEN NOT IN USE, FUEL AND HYDRAULIC FLUIDS SHALL BE STORED AT AN UPLAND SITE OUTSIDE OF THE 100-YEAR FLOODPLAIN. EMERGENCY SPILL RESPONSE DEVICES SHALL BE ON-SITE AT ALL TIMES DURING CONSTRUCTION IN WATERWAYS AND FLOODPLAINS AND SHALL BE READY TO DEPLOY IN THE EVENT OF A SPILL.
- NO CHEMICALS, FUELS, LUBRICANTS, BRUSH, ETC. SHALL BE DISCHARGED OR DIPOSED OF INTO OR ALONGSIDE ANY STREAM, WATERCOURSE, OR FLOODPLAIN UNDER ANY CIRCUMSTANCES.
- CONTRACTOR SHALL PREPARE A DEWATERING PLAN TO BE APPROVED BY THE ENGINEER OR OWNER PRIOR TO COMMENCEMENT OF ANY DEWATERING ACTIVITIES. ALL DEWATERING DISCHARGES MUST BE FILTERED TO REMOVE EXCESSIVE SEDIMENTS AND MUST BE DISCHARGED ONTO AN ENERGY-DISSIPATION DEVICE (E.G., SPLASH PUP, CONCRETE WEIGHT, OR EQUIVALENT) PRIOR TO DISCHARGE INTO ANY SURFACE WATER. FISH OR MUSSELS TRAPPED IN THE DRY AREA MUST BE PROPERLY RELOCATED TO A DOWNSTREAM SECTION OF THE RIVER BY A DESIGNATED/QUALIFIED INDIVIDUAL.
- LITTER AND CONSTRUCTION DEBRIS SHALL BE CONTAINED DAILY. ALL CONSTRUCTION DEBRIS AND LITTER SHALL BE COMPLETELY REMOVED OFFSITE AND DISPOSED OF PROPERLY UPON PROJECT COMPLETION.
- NO WASTEWATER SHALL BE DISCHARGED INTO THE RIVER.
- ANY REVEGETATION OR PLANTING SHALL OCCUR WITHIN THE APPROPRIATE PLANTING WINDOWS AND IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS NECESSARY TO PROVIDE ACCESS TO CONSTRUCTION AREAS FROM ALL EXISTING ROADWAYS AND PATHS TO MINIMIZE GROUND DISTURBANCE AND SEDIMENT TRACKING FROM VEHICLE TIRES. ADJACENT ROADWAYS AND PATHS SHALL BE VISUALLY INSPECTED DAILY TO ENSURE THAT SEDIMENT IS NOT BEING CARRIED OFF-SITE. IF SEDIMENT IS BEING CARRIED OFF-SITE, THE ADJACENT ROADWAYS AND PATHS SHALL BE SWEEPED CLEAN DAILY.

WORK LIMITS AND LAYDOWN

- WORK LIMITS, ACCESS, STAGING, LAYDOWN, AND STOCKPILE AREAS SHALL BE LOCATED WHERE SHOWN ON THE CONSTRUCTION DRAWINGS OR OTHERWISE AS APPROVED BY THE ENGINEER OR OWNER.
- ALL CONSTRUCTION ACTIVITIES SHALL OCCUR WITHIN CURRENTLY DISTURBED AREAS TO THE EXTENT POSSIBLE
- DISTURBED/ EXPOSED RIVERBANKS AND STAGING AND PROJECT ACCESS AREAS SHALL BE PROPERLY STABILIZED (SEEDED, MULCHED, OR OTHERWISE) WITH NATIVE VEGETATION IMMEDIATELY AFTER GRADING TO PREVENT EROSION AND ESTABLISHMENT OF INVASIVE PLANT SPECIES.
- CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO VEGETATION OR PROPERTY OUTSIDE THE WORK LIMITS RESULTING FROM CONSTRUCTION OPERATIONS.
- ALL AREAS TEMPORARILY DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION, SLOPES, AND ELEVATIONS, UNLESS OTHERWISE NOTED IN THE CONSTRUCTION DRAWINGS.

UTILITIES

- THE CONTRACTOR SHALL LOCATE ALL UTILITIES WITHIN THE PROJECT AREA PRIOR TO CONSTRUCTION.
- NO EXCAVATION SHALL OCCUR IN THE AREA SURROUNDING A UTILITY CROSSING. NO IMPROVEMENTS THAT MAY CAUSE SCOUR, ARE TO BE PLACED IN THE VICINITY OF AN AT-GRADE, ABOVE OR BELOW GRADE, UTILITY CROSSING.
- IF UTILITIES ARE IDENTIFIED WITHIN THE PROJECT AREA. A MINIMUM BUFFER OF NO DISTURBANCE IS TO BE MAINTAINED.

ROCK QUALITY

- INDIVIDUAL STONE BOULDERS SHALL BE DENSE, SOUND AND FREE FROM CRACKS, SEAMS AND OTHER DEFECTS CONDUCTIVE TO ACCELERATED WEATHERING.
- AT A MINIMUM EXPOSED ROCK SHOULD HAVE ONE FLAT SURFACE AND THIS SHOULD BE THE ONLY EXPOSED SURFACE.
- THE ROCK SHALL HAVE THE FOLLOWING PROPERTIES:
 - BULK SPECIFIC GRAVITY (SATURATED SURFACE-DRY BASIS) NOT LESS THAN 2.5.
 - ABSORPTION NOT MORE THAN 2% BY WEIGHT.
 - THE BULK SPECIFIC GRAVITY AND ABSORPTION SHALL BE DETERMINED BY ASTM METHOD C-127.
- ROCK THAT FAILS TO MEET THESE REQUIREMENTS MAY BE ACCEPTED ONLY IF SIMILAR ROCK FROM THE SAME SOURCE HAS BEEN DEMONSTRATED TO BE SOUND AFTER FIVE YEARS OR MORE OF SERVICE UNDER CONDITIONS OF WEATHER, WETTING AND DRYING, AND EROSION FORCES SIMILAR TO THOSE ANTICIPATED. ALTERNATIVELY NATIVE OR IMPORTED STONE, ALREADY AT THE SITE AND MEETING THE STANDARDS OUTLINED ABOVE, MAY BE USED.
- RECREATION, ENGINEERING AND PLANNING RETAINS THE RIGHT OF REFUSAL FOR ANY ROCK BROUGHT TO THE SITE WHICH IS NOT SUITABLE AND DOES NOT MEET THE ABOVE CRITERIA AND/OR SHOWS EXCESSIVE WEATHERING, CRACKING OR DEFORMATION.

SITE PREPARATION- STONES PLACED IN CHANNEL

- NO ROCK PLACEMENT SHALL OCCUR IN CHANNEL UNTIL APPROPRIATE WATER CONTROL MEASURES ARE IN PLACE (AS OUTLINED IN THE WATER CONTROL DETAILED PLAN).
- QUARRIED STONE SHALL BE PLACED AS SHOWN ON THE DRAWINGS WITHOUT ANY GAPS, SO THAT EACH BOULDER TOUCHES THE NEXT ONE.
- EACH STONE SHALL BE PLACED TO THE FINAL POSITION BY SUITABLE EQUIPMENT FOR HANDLING MATERIAL AND, IF NECESSARY, THE STONE SHALL BE PICKED UP AND REPOSITIONED.
- IT SHOULD BE ANTICIPATED THAT RE-HANDLING OF INDIVIDUAL STONES, AFTER INITIAL PLACEMENT WILL BE REQUIRED TO ACHIEVE REQUIRED SLOPES, GRADES, ELEVATIONS AND POSITION.
- THE ENGINEER SHALL OBSERVE AND APPROVE CONTRACTOR'S METHOD FOR STONE PLACEMENT IN A REPRESENTATIVE AREA FOR EACH PROJECT COMPONENT.

OTHER

- IN THE EVENT AN ITEM IS NOT COVERED IN THE SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND THEY MUST APPROVE ANY ADDITIONS OR MODIFICATIONS TO THE SPECIFICATIONS.
- ALL WASTE MATERIAL AND/OR EXCESS EXCAVATION NOT USED AS PART OF THE WORK SHALL BE REMOVED FROM THE JOB SITE AND DISPOSED OF AT ACCEPTABLE LOCATIONS IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- THE CONTRACTOR AT ALL TIMES DURING CONSTRUCTION SHALL PROVIDE WARNING SIGNS, BARRICADES, AND OTHER SAFETY DEVICES (INCLUDING TEMPORARY FENCING AROUND THE JOB SITE) TO PROTECT PUBLIC SAFETY AND HEALTH.

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DETAILS AND NOTES

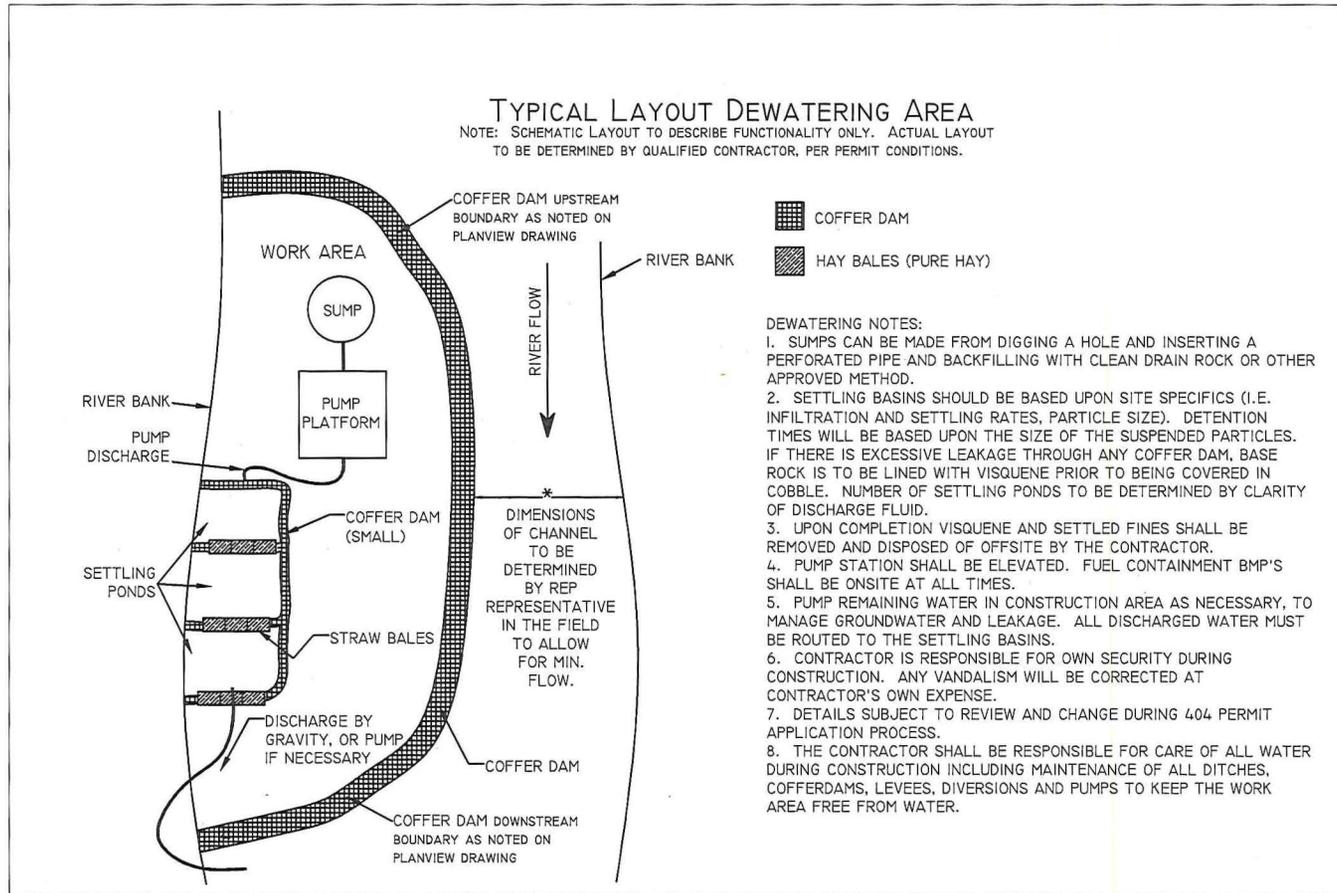
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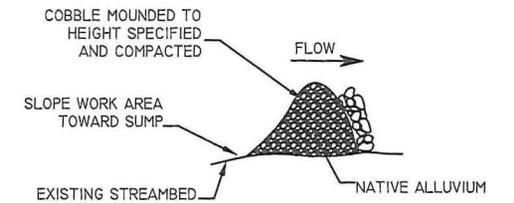
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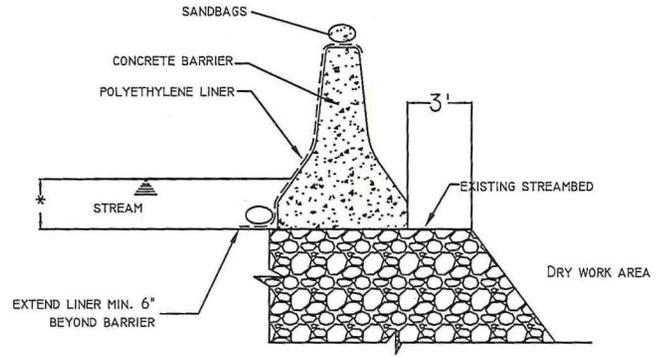
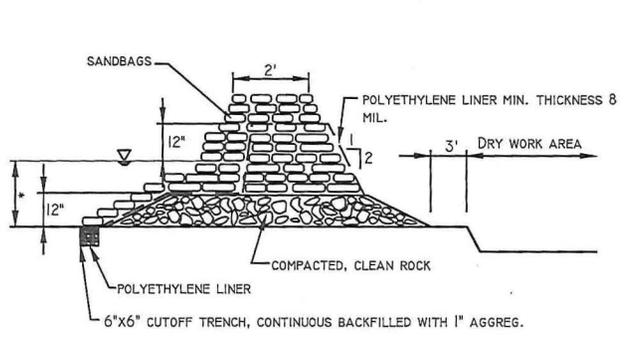
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TYPICAL COFFER DAM CROSS SECTION



ALTERNATIVE COFFERDAM METHODS

NOTE: ALTERNATE METHODS PRESENTED TO DESCRIBE FUNCTIONALITY ONLY. ACTUAL METHOD TO BE DETERMINED BY QUALIFIED CONTRACTOR, PER PERMIT CONDITIONS, IN ORDER TO ACHIEVE DRY WORK AREA.

"A" HOLE AND TOOTS HOLE
 RECONSTRUCTION
 CITY OF STEAMBOAT SPRINGS
 137 10TH STREET
 STEAMBOAT SPRINGS, CO 80487
 FRIENDS OF THE YAMPA

DETAILS AND NOTES

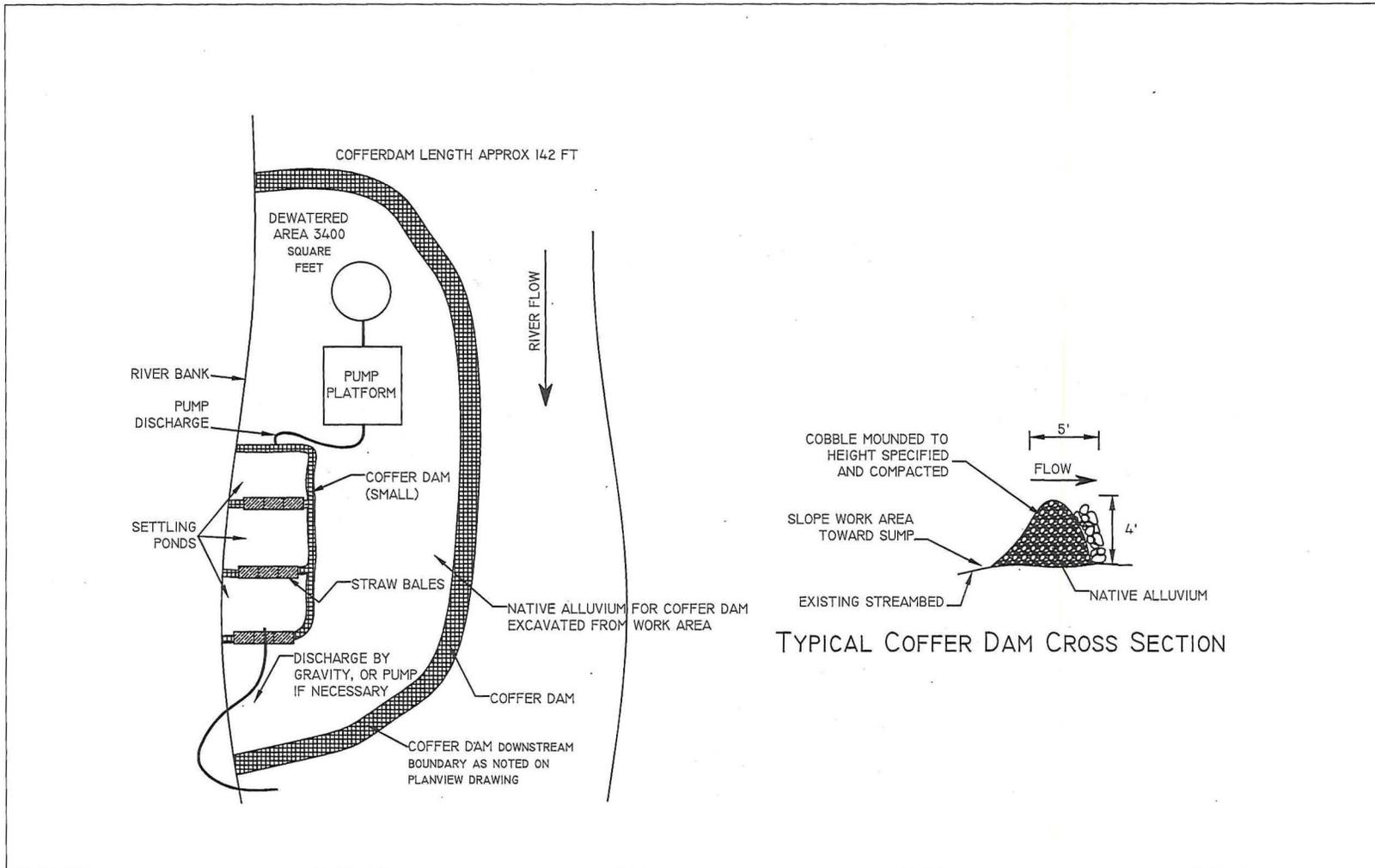
NO SCALE

DESIGNED: GML
 DRAFTED: RCG
 CHECKED:
 REVISED: 8/27/14

SHEET 12B OF 12

REP
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 AVE.
 BOULDER, CO
 80302
 (303)-545-5883





"A" HOLE AND TOOTS HOLE
RECONSTRUCTION

CITY OF STEAMBOAT SPRINGS
137 10TH STREET
STEAMBOAT SPRINGS, CO 80487
FRIENDS OF THE YAMPA

AHOLE DEWATERING DETAIL

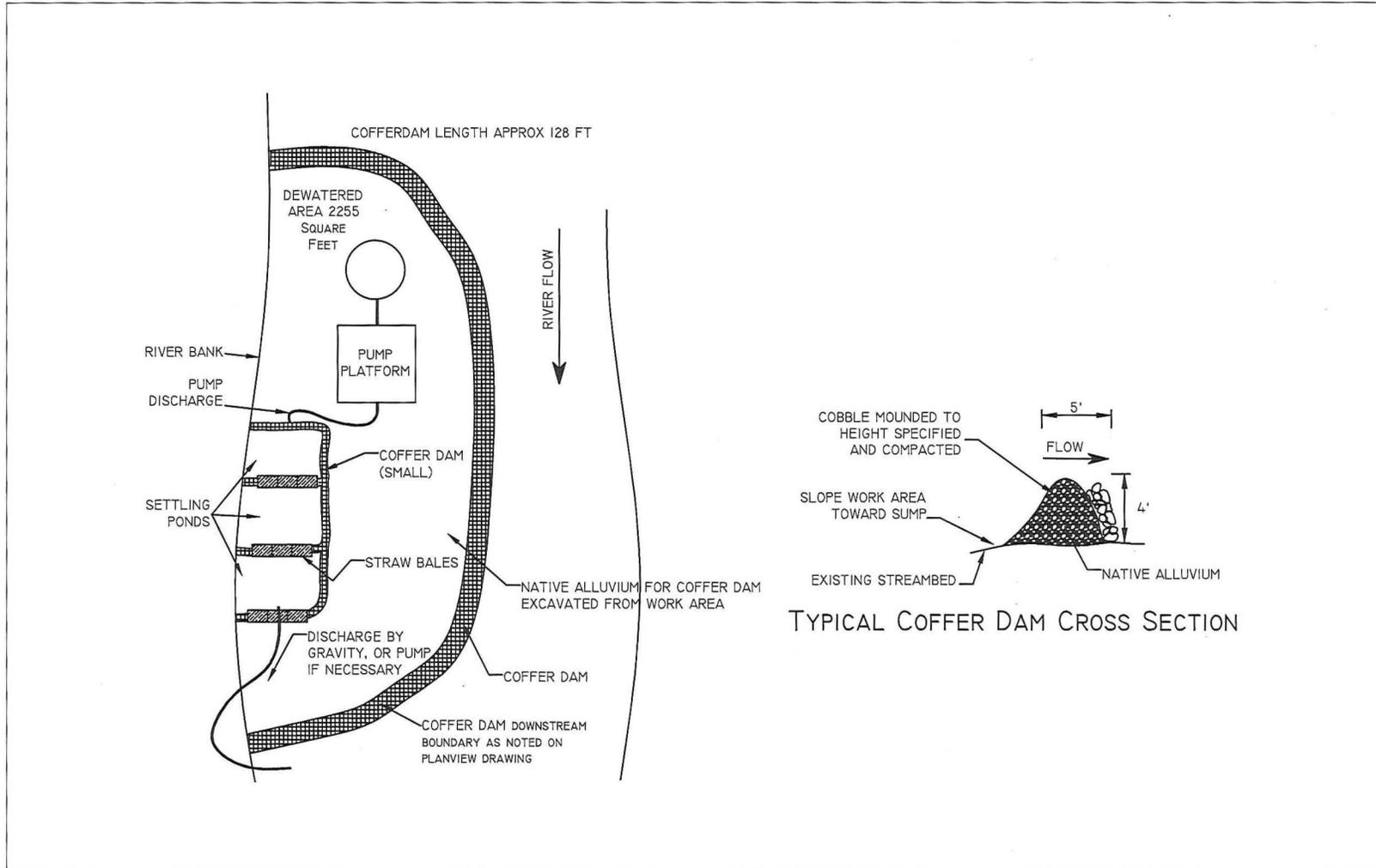
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"A" HOLE AND TOOTS HOLE
RECONSTRUCTION

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STEAMBOAT SPRINGS, CO

TOOTS HOLE DEWATERING DETAIL

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