NOTES TO DESIGNER:

1. REFER TO PROJECT SPECIFIC DEEP FISHERIES COMMENTS FOR FURTHER DIRECTION AND RECOMMENDATION ON THE FISHERIES ENHANCEMENT(S).

2. BOULDER SIZE IS TO BE SPECIFIED IN THE DETAIL. REPLACE "X" WITH SIZE AS SPECIFIED BY DEEP FISHERIES FOR THE SPECIFIC PROJECT. ALL BOULDER SIZE MAY BE SPECIFIED BY A MINIMUM DIAMETER OR A RANGE OR ANGULAR.

3. BOULDER TYPE TO BE SPECIFIED IN THE DETAIL (ROUNDED DIAMETER OR SKU), PRICING, AND APPROVED BY DEEP FISHERIES, OR THEIR AUTHORIZED DELEGATE. SEE SPECIAL PROVISION "PLACEMENT OF CHANNEL BOULDER" OR AS RECOMMENDED BY DEEP FISHERIES.

4. IF MULTIPLE CLUSTERS ARE PROPOSED, THE DISTANCE BETWEEN CLUSTERS WILL BE BASED ON FIELD CONDITIONS.

5. ALL WORK ASSOCIATED WITH THE PLACEMENT OF CHANNEL BOULDERS TO BE PAID FOR UNDER SPECIAL PROVISION "PLACEMENT OF CHANNEL BOULDER" (EXISTING STREAMBED MATERIAL TO BE PAID FOR UNDER SPECIAL PROVISION "EXCAVATION AND REUSE OF EXISTING CHANNEL BOULDER(S) TO BE PAID FOR UNDER SPECIAL PROVISION "PLACEMENT OF CHANNEL BOULDER)." EXISTING CHANNEL BOULDER(S) TO BE PAID FOR UNDER SPECIAL PROVISION "EXCAVATION AND REUSE OF EXISTING CHANNEL BOULDER(S) TO BE PAID FOR UNDER SPECIAL PROVISION "PLACEMENT OF CHANNEL BOULDER." EXISTING CHANNEL BOULDER(S) TO BE PAID FOR UNDER SPECIAL PROVISION "EXCAVATION AND REUSE OF EXISTING CHANNEL BOULDER(S) TO BE PAID FOR UNDER SPECIAL PROVISION "PLACEMENT OF CHANNEL BOULDER." EXISTING CHANNEL BOULDER(S) TO BE PAID FOR UNDER SPECIAL PROVISION "EXCAVATION AND REUSE OF EXISTING CHANNEL BOULDER(S) TO BE PAID FOR UNDER SPECIAL PROVISION "PLACEMENT OF CHANNEL BOULDER.

6. BOULDERS SHALL BE PLACED WITHIN THE DEPARTMENT'S RIGHT-OF-WAY OR EASEMENT. BOULDERS SHALL NOT BE PLACED UNDER BRIDGES OR WITHIN CULVERTS OR NATURAL STREAMBED MATERIAL TO BE PAID FOR UNDER SPECIAL PROVISION "EXCAVATION AND REUSE OF EXISTING CHANNEL BOTTOM MATERIAL" AND, IF SPECIFIED, "SUPPLEMENTAL STREAMBED CHANNEL MATERIAL." BOULDERS SHALL BE PLACED UNDER BRIDGES OR WITHIN CULVERTS.

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1. TYPE BOULDERS APPROXIMATELY "X" FT. MIN. DIAMETER SHALL BE PLACED IN CLUSTERS AS DIRECTED IN THE FIELD BY THE ENGINEER OR THEIR AUTHORIZED DELEGATE. SEE SPECIAL PROVISION "PLACEMENT OF CHANNEL BOULDER".

2. FOR MULTIPLE CLUSTERS, THE DISTANCE BETWEEN CLUSTERS WILL BE BASED ON FIELD CONDITIONS.

SPACING OF BOULDERS IS VARIABLE AND SHALL BE DETERMINED BY THE ENGINEER OR THEIR AUTHORIZED DELEGATE.

PLACEMENT OF CHANNEL BOULDERS

SECTION VIEW

N.T.S.

FLOW

STREAMBED

BOULDER CLUSTER

BOULDERS TO BE ENBEDDED APPROXIMATELY 6-12 INCHES BELOW STREAMBED ELEVATION

EXISTING STREAMBED OR NATURAL STREAMBED MATERIAL (TO BE SPECIFIED PER PROJECT DESIGN)

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RETURN TO SCALE

NOT TO SCALE