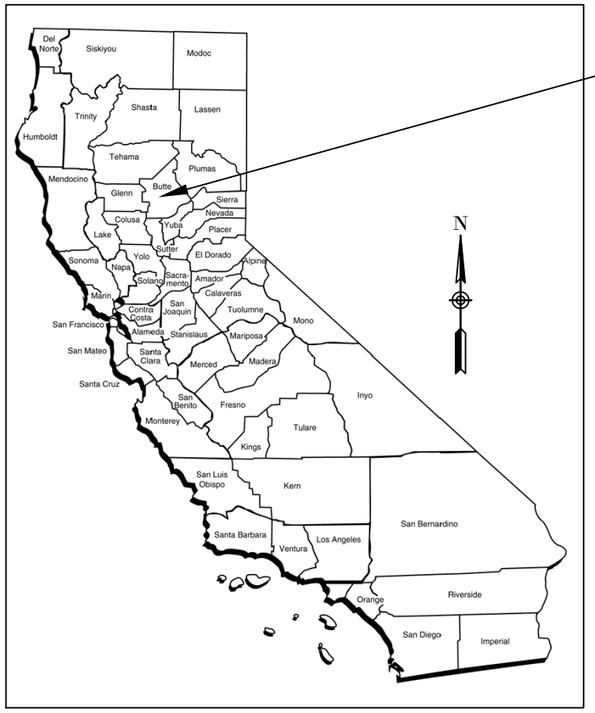
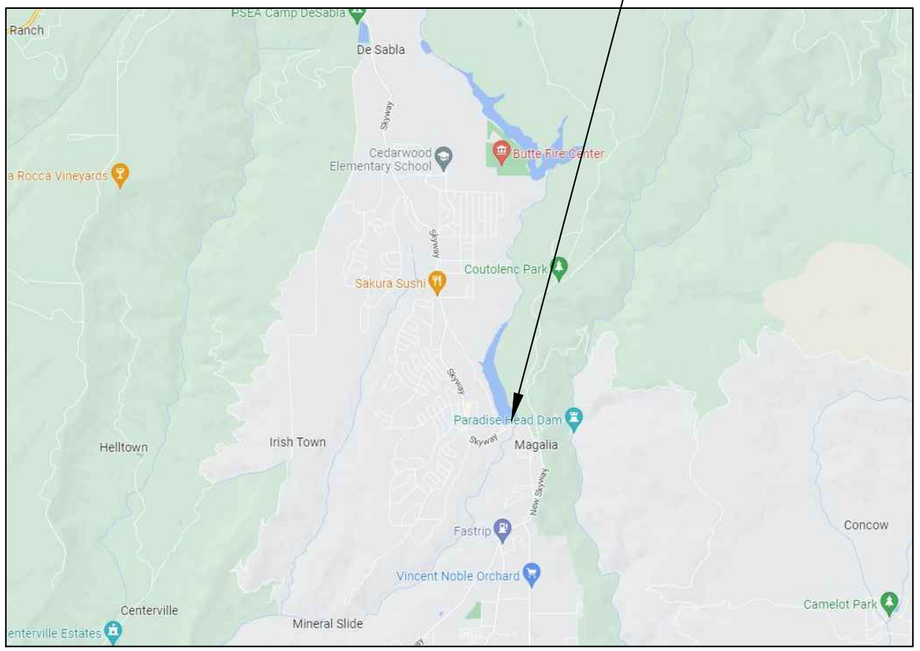


APPROXIMATE
LOCATION OF PROPOSED PROJECT

CALIFORNIA STATE MAP
NOT TO SCALE

LOCATION OF PROPOSED PROJECT



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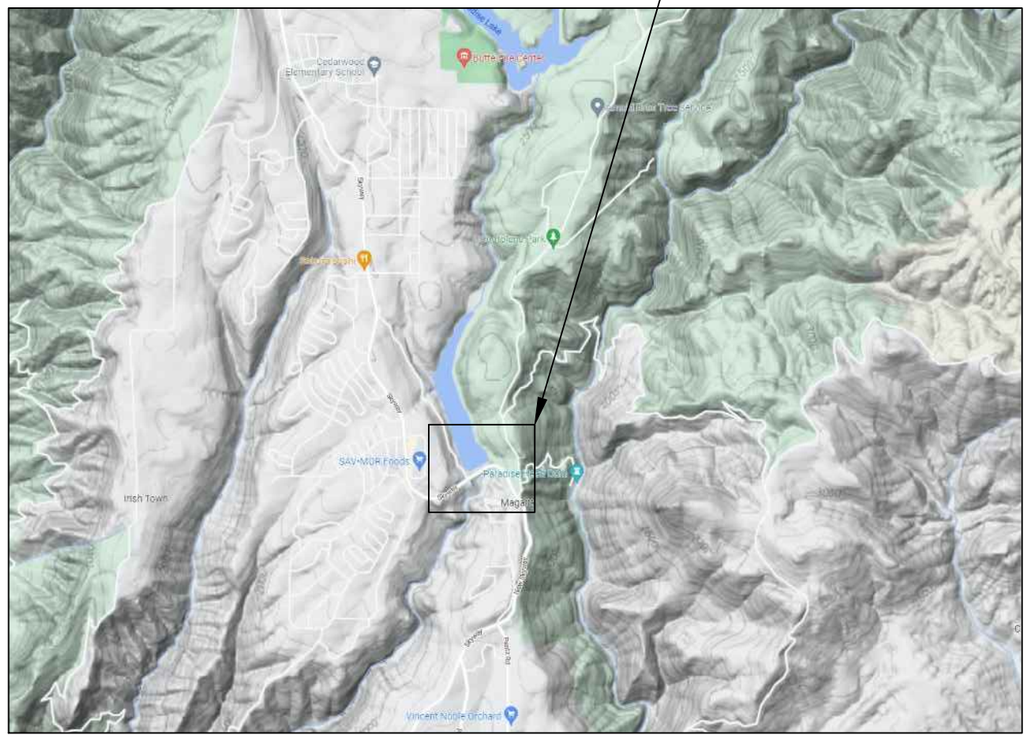
LOCATION MAP
NOT TO SCALE

LOCATION OF PROPOSED PROJECT



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VICINITY MAP
NOT TO SCALE

INDEX	SHEET NO.
PROJECT LOCATION MAP	1 OF 6
SURVEY PLAN	2 OF 6
PLAN VIEW AND CROSS-SECTIONS OF GABION WALL	3 OF 6
PROFILE ALONG GABION WALL	4 OF 6
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CONSTRUCTION DETAILS	6 OF 6

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U.S.A. Toll Free 1-800-227-2600
for the location of buried utility lines.
Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

GENTERRA CONSULTANTS, INC.
Engineering & Geotechnical Services
Irvine, California

REGISTERED PROFESSIONAL ENGINEER
JOSEPH J. KULKOWSKI
No. 17478
CIVIL
STATE OF CALIFORNIA

DESIGNED BY:	SB/SL
DRAWN BY:	SL
DATE DRAWN:	OCTOBER 2022
CHECKED BY:	JJK

BENCHMARK:

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MAGALIA DAM SPILLWAY
INTERIM RISK-REDUCTION REPAIR

PROJECT LOCATION MAP

PROJECT NO. 391-PID-I
DRAWING NO.
SHEET NO. 1 OF 6

LOCATION OF DAM SPILLWAY

W/L 2198.4

MAGALIA RESERVOIR

MAGALIA DAM

SKYWAY

ROCKS

P.I.D. WATER TREATMENT FACILITIES

W.L. 2296.1

W.L. 2300.9

PHONE/CCTV VAULT

0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 7+00.35

0 50 100 Feet

N

LOCATION OF SPILLWAY CHANNEL EROSION PROTECTION AREA

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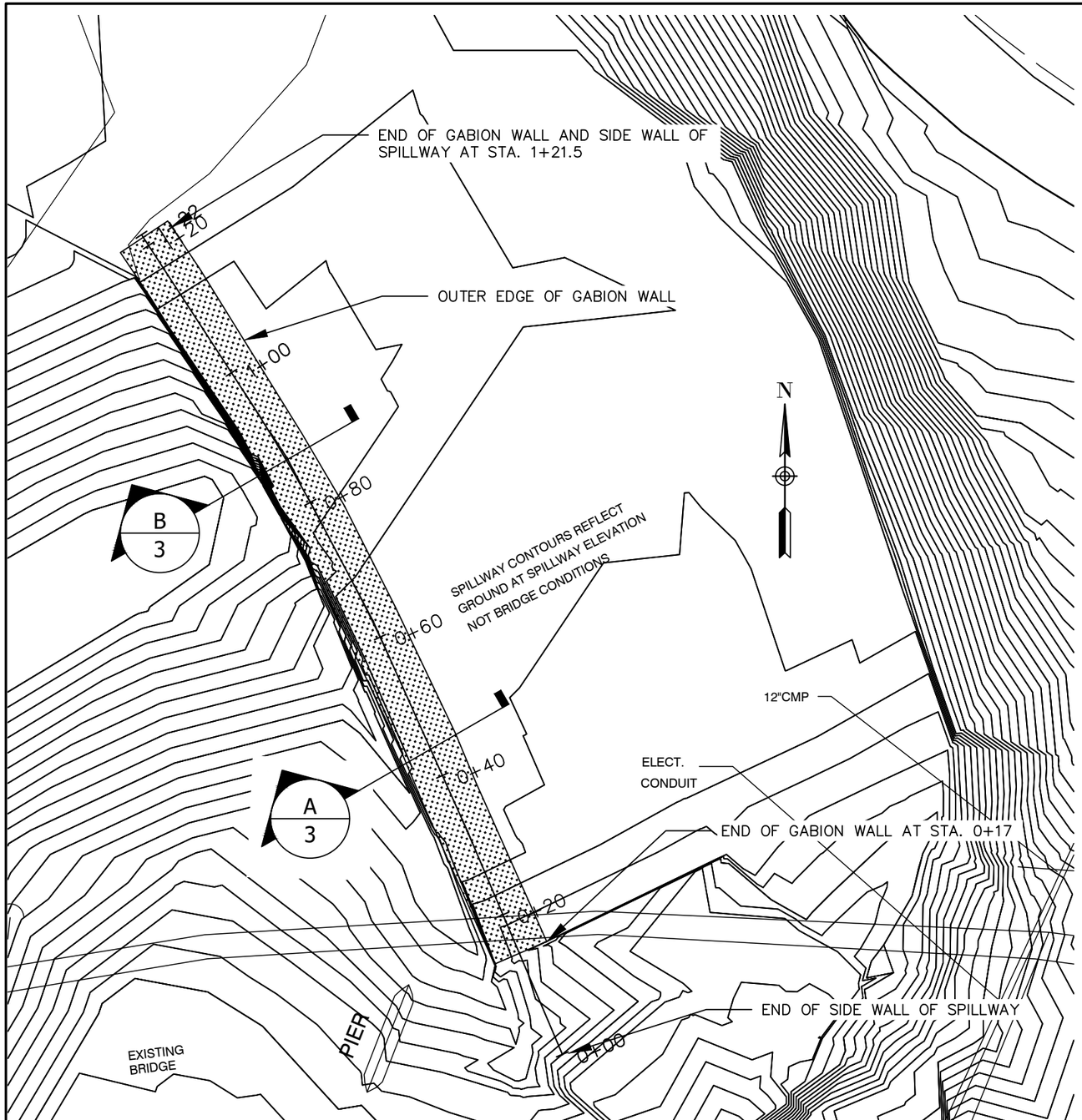
MAGALIA DAM SPILLWAY INTERIM RISK–REDUCTION REPAIR

SURVEY PLAN

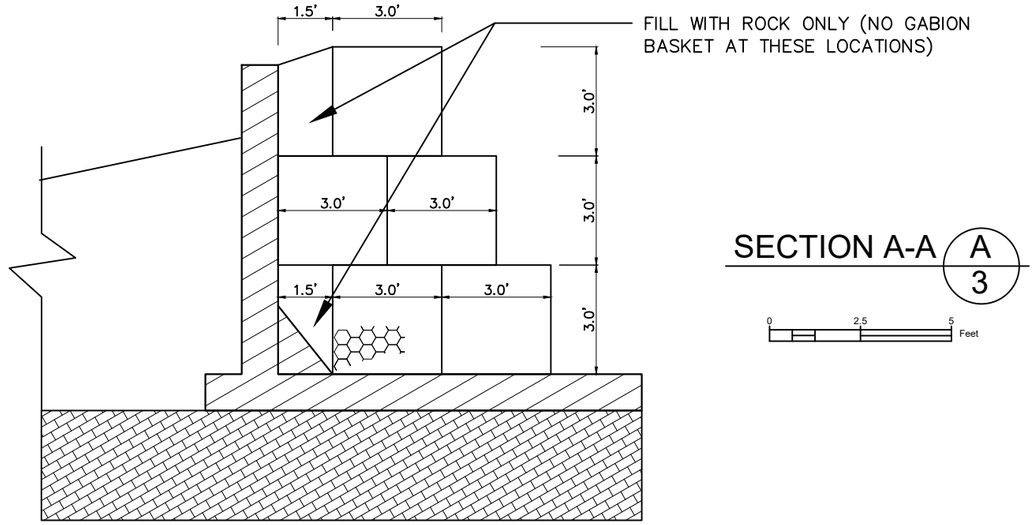
PROJECT NO. 391–PID–I

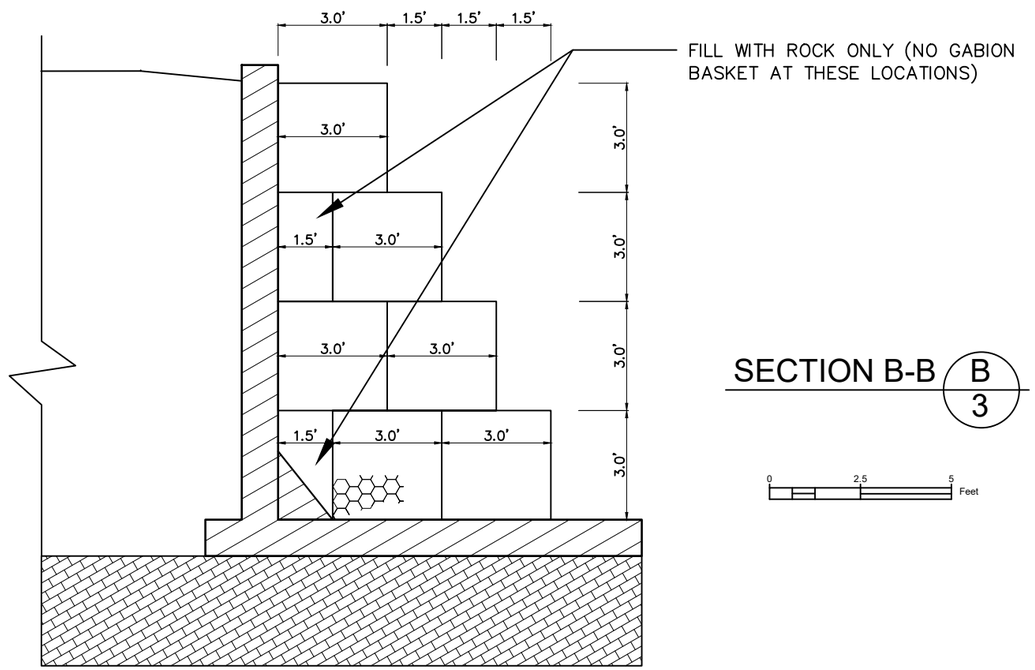
DRAWING NO.

SHEET NO. 2 OF 6



PLAN VIEW OF GABION WALL





CROSS-SECTIONS OF GABION WALL

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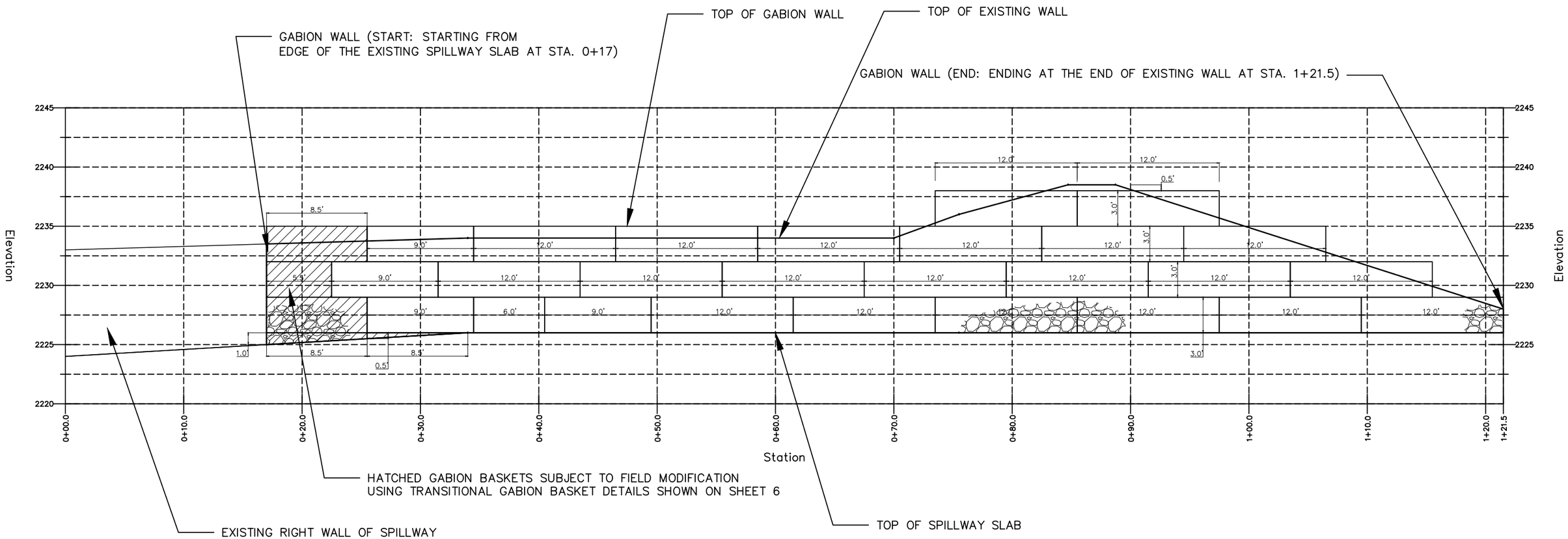
MAGALIA DAM SPILLWAY
INTERIM RISK–REDUCTION REPAIR

PLAN VIEW & CROSS-SECTIONS OF GABION WALL

PROJECT NO. 391–PID–I
DRAWING NO.
SHEET NO. 3 OF 6



PROFILE OF GABION WALL AND EXISTING RIGHT SIDE SPILLWAY WALL

0 10 20 Feet

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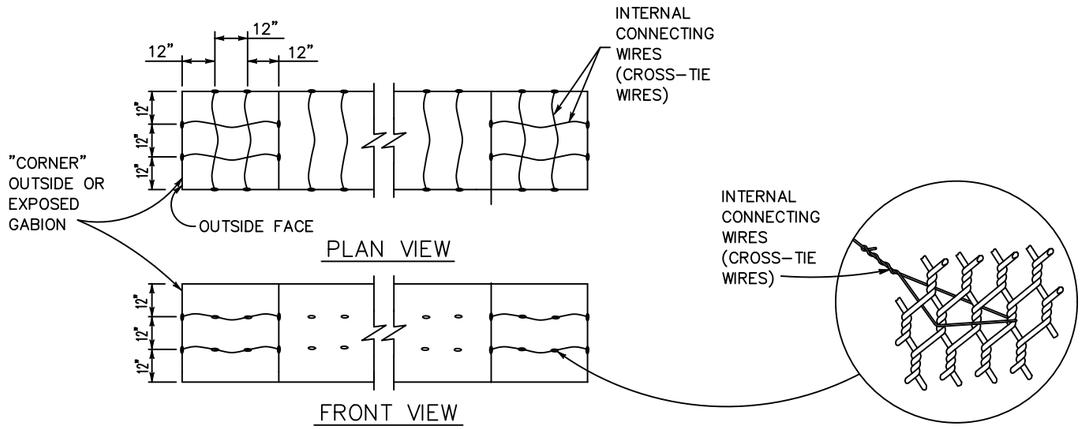
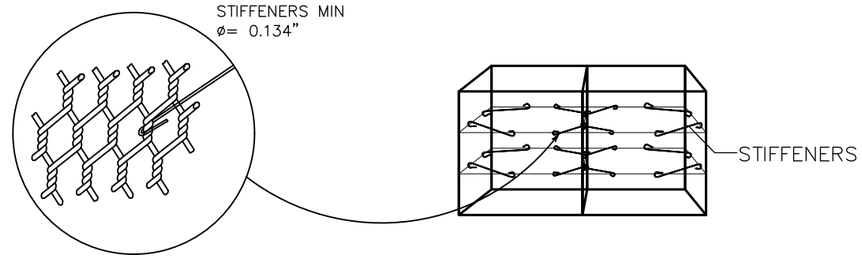
MAGALIA DAM SPILLWAY
INTERIM RISK–REDUCTION REPAIR

PROFILE ALONG GABION WALL

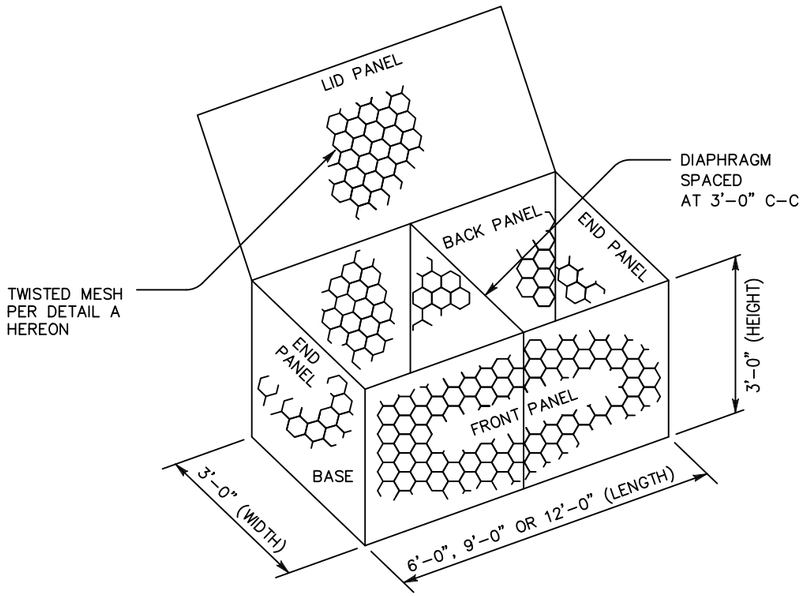
PROJECT NO. 391–PID–I
DRAWING NO.
SHEET NO. 4 OF 6



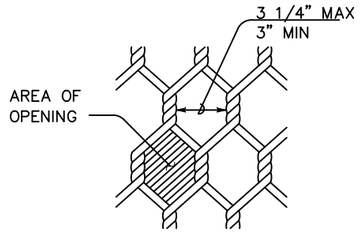
REINFORCING DETAILS



CORNER STIFFENER

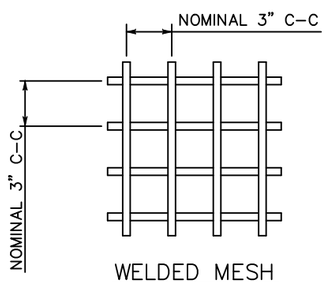


TYPICAL DIMENSIONS AND NAMING CONVENTION



NOTE: AREA OF OPENING NOT TO EXCEED 10.3 SQUARE INCHES

DETAIL A: TWISTED MESH DETAIL
NOT TO SCALE



WELDED MESH

TYPICAL ACCEPTABLE MESH STYLES

STANDARD GABION SIZES				
LENGTH	WIDTH	HEIGHT	NUMBER OF DIAPHRAGMS	VOLUME CY
6'–0"	3'–0"	3'–0"	1	2.0
9'–0"	3'–0"	3'–0"	2	3.0
12'–0"	3'–0"	3'–0"	3	4.0

NOTES:

1. Internal connecting wire (13.5–gage) to be installed across width of interior gabions and across width and length of end gabions.
2. Internal connecting wires (cross–tie wire) required on all gabions 3'–0" high.
3. Place rock in end gabion cell first, and continue by filling interior gabion cells.
4. For gabion dimensions, refer to table "Standard Gabion Sizes".
5. Bottom gabion layer should be anchored to the spillway slab.
6. Back gabion cells that will be located immediately adjacent to the right wall should be anchored to the wall.

NOT TO SCALE

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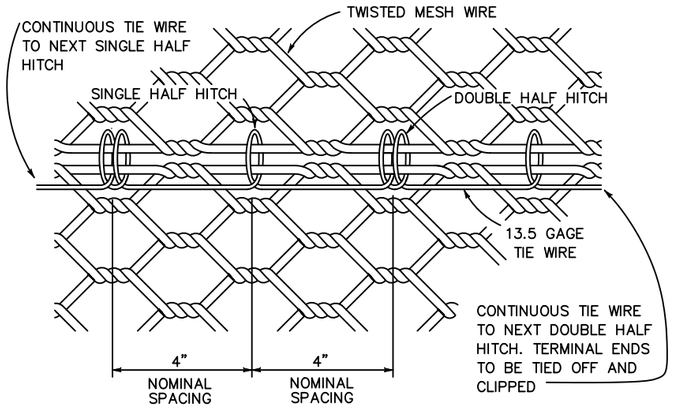
MAGALIA DAM SPILLWAY
INTERIM RISK–REDUCTION REPAIR

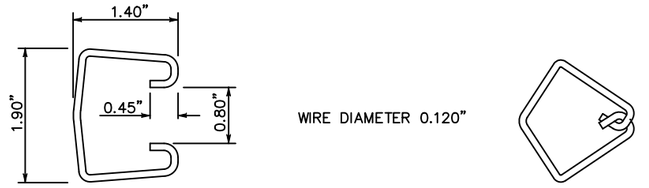
CONSTRUCTION DETAILS

PROJECT NO. 391–PID–I
DRAWING NO.
SHEET NO. 5 OF 6

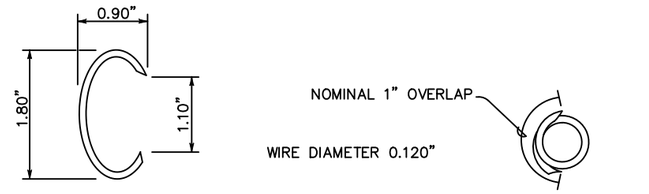


STANDARD TIE WIRE DETAIL

Alternating single and double half hitches (locked loops)
(See Note 2)



INTERLOCKING FASTENER



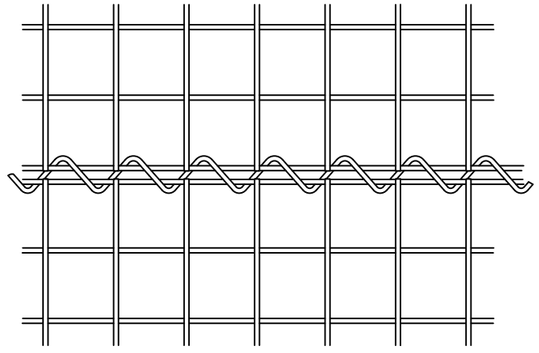
OVERLAPPING FASTENER

ALTERNATIVE GABION JOINT MATERIAL FASTENERS

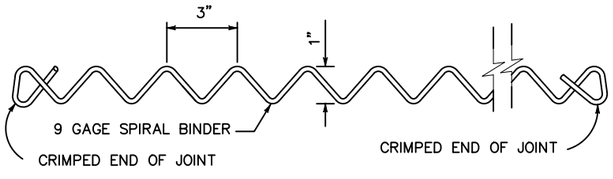
(Fastener dimensions nominal)
(See Note 3)

NOTES:

1. A joint connection must be made where any panel edge meets another panel. This includes adjacent gabion baskets, individual panels within a basket, diaphragm edges, etc.
2. Standard tie wire may be used as a joint connector for either twisted or welded mesh. Spiral binder is to be used with welded mesh only.
3. When alternative gabion joint material fasteners are not capable of enclosing all wires along a joint, especially at Basket–To–Basket Joints, either standard tie wire or spiral binder, as applicable, must be used.

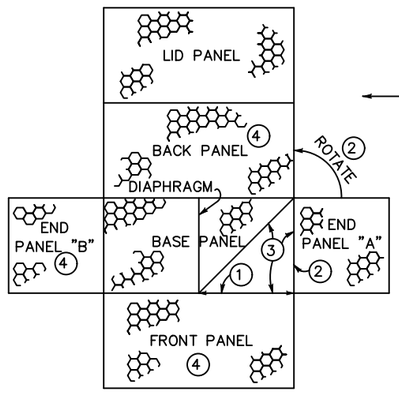


SPIRAL BINDER LACING



STANDARD SPIRAL BINDER

(See Note 2)



FLAT LAYOUT OF GABION BASKET

To Assemble Transitional Gabion Basket:

Step 1 Cut mesh along joint between Front Panel and Base Panel.

Step 2 Unfasten End Panel "A" from Base Panel and rotate End Panel "A". Fasten End Panel Panel "A" to Back Panel.

Step 3 Fold the cut portion of the Base Panel into upright position along diagonal from the diaphragm to the corner of the Back Panel.

Step 4 Fold the Back Panel, Front Panel and End Panel "B" into upright positions. Fasten End Panel "B" to the Back Panel and the Front Panel.

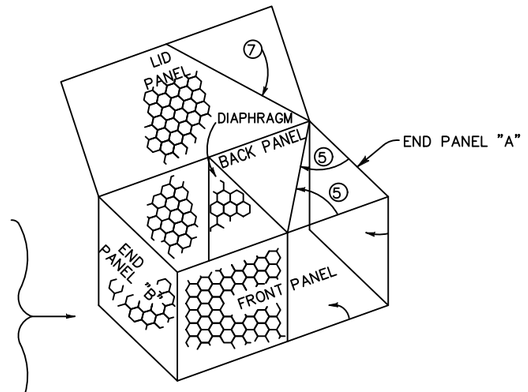
Step 5 Rotate End Panel "A" and the cut portion of the Front Panel inward against the upturned portion of the Base Panel. Fasten along the overlapped portion of the Front Panel and End Panel "A". Fasten the overlapped portion of the Front Panel and End Panel "A" to the folded upright portion of the Base Panel along the diagonal (described in Step 3).

Step 6 Fill the Transitional Gabion Basket with rock as per specifications.

Step 7 Close lid and fold over corner of Lid Panel. Fasten along Lid Panel edges.

TRANSITIONAL GABION BASKET

(For 6'–0", 9'–0" or 12'–0" Length Gabion)



ASSEMBLED TRANSITIONAL GABION BASKET

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INTERIM RISK–REDUCTION REPAIR

CONSTRUCTION DETAILS

PROJECT NO. 391–PID–I
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SHEET NO. 6 OF 6