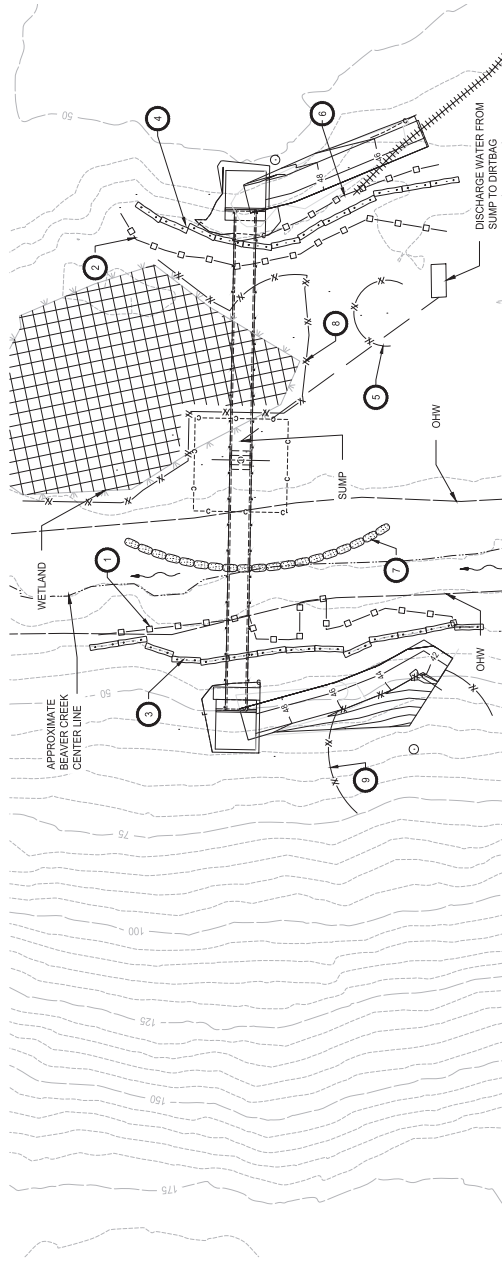


CONSTRUCTION NOTES

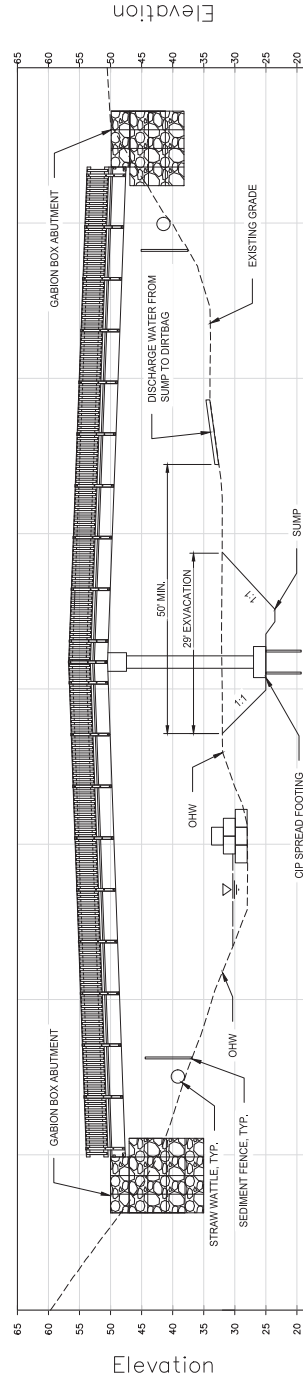
- 1 INST. ORANGE SEDIMENT FENCE - 150'
(SEE DRG. NO. RD1040)
- 2 INST. ORANGE SEDIMENT FENCE - 120'
- 3 INST. SEDIMENT BARRIER (TYPE 3) - 130'
(SEE DRG. NO. RD1030)
- 4 INST. SEDIMENT BARRIER (TYPE 3) - 120'
- 5 INST. ORANGE WORK ZONE FENCING - 40'
- 6 INST. SEDIMENT BARRIER (TYPE 3) - 75'
- 7 CONST. SANDBAG ISOLATION BERM
- 8 INST. ORANGE WORK ZONE FENCING - 210'
- 9 INST. ORANGE WORK ZONE FENCING - 100'

LEGEND

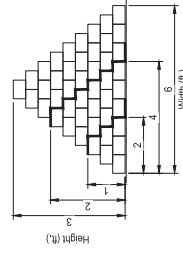
- EXCAVATION LIMITS FOR FOOTING INSTALLATION
- SEDIMENT BARRIER, STRAW WATTLE
- SEDIMENT FENCE
- ORANGE WORK ZONE FENCING
- SANDBAG BERM
- ISOLATION AREA
- NO WORK AREA



PLAN
SCALE IN FEET
0 20 40



ELEVATION
SCALE IN FEET
0 10 20



SANDBAG FOOTPRINT DETAIL

**EROSION CONTROL AND
STREAM MANAGEMENT PLAN**

PROJECT NAME
BEAVER CREEK BRIDGE REPLACEMENT
TROUTDALE, OREGON

Parametrix
5 SE Martin Luther King Jr. Blvd. Suite 400 • Portland, OR 97214
PH: 503.253.2400



FILE NAME	DATE	BY	DESIGNED BY
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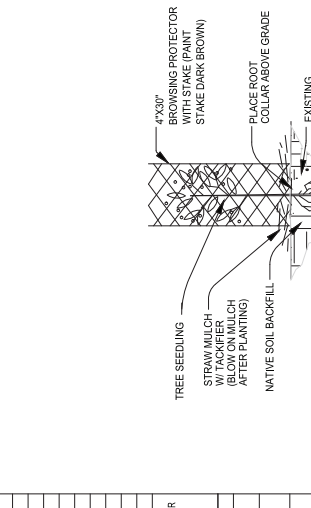
REVISIONS	DATE	BY	DESIGNED BY

PLANTING SCHEDULE

COMMON NAME	SCIENTIFIC NAME	PLANT CATEGORY	MINIMUM SIZE	SPACING FORMAT	QTY.
A- RIPARIAN FOREST					
BIG LEAF MAPLE	ACER HARPORCULUM	TREE	3 GALLON, 4" TALL 1" CALIPER	SINGLE	6
CASCARA	FRAXILA PUSHANA	TREE	3 GALLON, 4" TALL 1" CALIPER	SINGLE	7
DOUGLAS FIR	PSEUDOTSUGA MENZIESII	TREE	5 GALLON, 3" TALL 1" CALIPER	SINGLE	8
RED ALDER	ALNUS RUBRA	TREE	3 GALLON, 4" TALL 1" CALIPER	SINGLE	6
			TOTAL TREE		27
RED ELDERBERRY	SAMBUCUS RACEMOSA	SHRUB	1 GALLON, 1" TALL	SINGLE	3
OSO-BERRY	CELANERA CERASIFORMIS	SHRUB	2 GALLON, 1" TALL	SINGLE	3
DOUGLAS MEADOWSWEET	SHRUB DOUGLASHI	SHRUB	1 GALLON, 1" TALL	SINGLE	4
SNOWBERRY	SYMPHORCARPOS	SHRUB	1 GALLON, 1" TALL	SINGLE	4
			TOTAL SHRUB		15
WESTERN LADY FERN	ATHYRIUM CYCLOSORUM	HERB	4" ROOTING SIZE	CLUSTER	200
SIBERIAN SPRINGSBERRY	CLAYTONIA SIBERICA	HERB	4" ROOTING SIZE	CLUSTER	350
PISTIACCA-ANT	TOLMIEA MENZIESII	HERB	4" ROOTING SIZE	CLUSTER	350
			TOTAL HERB		900
NATIVE RIPARIAN W/IK					
- BLUE WILDFIRE (ELMULUS GALUUS)					
- CALIFORNIA BROUKE (BROMUS CARINATUS)					
- CALIFORNIA BROUKE (BROMUS CARINATUS)					
- TUFFED HARRISS (DESCHAMPSIA CESPIITOSA)					
B- RIPARIAN SHRUBS AND HERBS					
COMMON NAME	SCIENTIFIC NAME	PLANT CATEGORY	MINIMUM SIZE	SPACING FORMAT	QTY.
RED ELDERBERRY	SAMBUCUS RACEMOSA	SHRUB	1 GALLON, 1" TALL	SINGLE	4
OSO-BERRY	CELANERA CERASIFORMIS	SHRUB	2 GALLON, 1" TALL	SINGLE	3
DOUGLAS MEADOWSWEET	SHRUB DOUGLASHI	SHRUB	1 GALLON, 1" TALL	SINGLE	3
SNOWBERRY	SYMPHORCARPOS	SHRUB	1 GALLON, 1" TALL	SINGLE	5
			TOTAL SHRUB		17
WESTERN LADY FERN	ATHYRIUM CYCLOSORUM	HERB	4" ROOTING SIZE	CLUSTER	200
SIBERIAN SPRINGSBERRY	CLAYTONIA SIBERICA	HERB	4" ROOTING SIZE	CLUSTER	350
PISTIACCA-ANT	TOLMIEA MENZIESII	HERB	4" ROOTING SIZE	CLUSTER	350
			TOTAL HERB		900
NATIVE RIPARIAN W/IK FOR SHADES					
- CALIFORNIA BROUKE (BROMUS CARINATUS)					
- CALIFORNIA BROUKE (BROMUS CARINATUS)					
- TUFFED HARRISS (DESCHAMPSIA CESPIITOSA)					
C- WETLAND					
COMMON NAME	SCIENTIFIC NAME	PLANT CATEGORY	MINIMUM SIZE	SPACING FORMAT	QTY.
WESTERN RED CEDAR	THUJA PLICATA	TREE	3 GALLON, 4" TALL 1" CALIPER	SINGLE	1
RED ALDER	ALNUS RUBRA	TREE	3 GALLON, 4" TALL 1" CALIPER	SINGLE	1
			TOTAL TREE		2
NINEBARK	PHYSCOCARPUS SPATIATUS	SHRUB	1 GALLON, 1" TALL	SINGLE	7
RED OSIER	CORNUS ALBA	SHRUB	1 GALLON, 1" TALL	CLUSTER	4
DOUGLAS MEADOWSWEET	SHRUB DOUGLASHI	SHRUB	1 GALLON, 1" TALL	CLUSTER	4
			TOTAL SHRUB		15
STRINGING NETTLE	URTICA DIOICA	HERB	4" ROOTING SIZE	CLUSTER	40
WESTERN LADY FERN	ATHYRIUM CYCLOSORUM	HERB	4" ROOTING SIZE	CLUSTER	40
SOFT RUSH	JUNCUS EFFLUSUS	HERB	4" ROOTING SIZE	CLUSTER	40
			TOTAL HERB		120
WETLAND NATIVE SEED MIX					
- 1 LB PER 1000 SF OR AS NEEDED FOR 6" SOIL AREAS > 25 SF					
- CALIFORNIA BROUKE (BROMUS CARINATUS)					

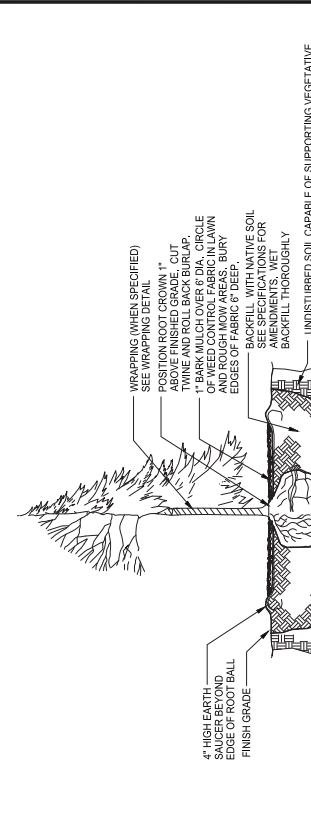
PLANTING NOTES

- ENSURE THAT TREES ARE PLANTED BEYOND THE "CLEAR ZONE". VERIFY WITH THE ENGINEER PRIOR TO PLANTING.
- ADJUST PLANTING LOCATIONS SO THAT VEGETATION DOESN'T CONFLICT WITH ABOVE - OR BELOW-GROUND UTILITIES.
- LOCATE UNDERGROUND UTILITY LINES PRIOR TO DIGGING TREE HOLES.
- SEE AMERICAN STANDARD FOR NURSERY STOCK FOR PLANT QUALITY MINIMUM STANDARDS SUCH AS SIZE OF ROOT BALL OR CALIPER OF TRUNK.
- ALL DIMENSIONS SHOWN ON DETAILS ARE MINIMUM DIMENSIONS.
- SEE PLANT LIST OR SPECIAL PROVISIONS FOR PLANT MATERIAL THAT MAY NEED TO BE WILD-COLLECTED OR CONTRACT-GROWN.



SEEDLING PLANTING

- 4" HIGH BARK WRAPPING (WHEN SPECIFIED) SEE WRAPPING DETAIL
- POSITION ROOT CROWN 1" ABOVE FINISH GRADE
- 1" BARK MULCH OVER 6" DIA. CIRCLE OF WEED CONTROL FABRIC IN LAWN AND ROUGHEN EDGES OF FABRIC DEEP
- BACKFILL WITH NATIVE SOIL SEE SPECIFICATIONS FOR AMENDMENTS. WET BACKFILL THOROUGHLY
- UNDISTURBED SOIL CAPABLE OF SUPPORTING VEGETATIVE GROWTH. REMOVE ANY ASPHALT, CONCRETE, ROCKS LARGER THAN 1" DIAMETER FROM WITHIN OR BELOW PLANTING HOLE
- SET ROOTBALL ON UNDISTURBED OR COMPACTED SOIL



TREE PLANTING

- 4" HIGH BARK WRAPPING (WHEN SPECIFIED) SEE WRAPPING DETAIL
- POSITION ROOT CROWN 1" ABOVE FINISH GRADE
- 1" BARK MULCH OVER 6" DIA. CIRCLE OF WEED CONTROL FABRIC IN LAWN AND ROUGHEN EDGES OF FABRIC DEEP
- BACKFILL WITH NATIVE SOIL SEE SPECIFICATIONS FOR AMENDMENTS. WET BACKFILL THOROUGHLY
- UNDISTURBED SOIL CAPABLE OF SUPPORTING VEGETATIVE GROWTH. REMOVE ANY ASPHALT, CONCRETE, ROCKS LARGER THAN 1" DIAMETER FROM WITHIN OR BELOW PLANTING HOLE
- SET ROOTBALL ON UNDISTURBED OR COMPACTED SOIL

REVISIONS

NO.	DATE	BY	DESCRIBED

FILE NAME:
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 DATE: 2/27/24 1:56:20 PM
 DRAWN BY:
 CHECKED BY:
 APPROVED BY:
 DATE: 27 MARCH 2026

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
 STATE OF OREGON
 No. 12345
 EXPIRES: 03/31/26

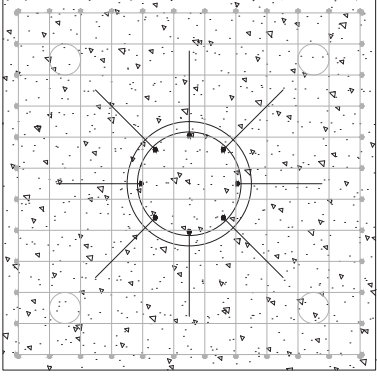
Parametrix

3 SE Marin Luther King Jr. Blvd, Suite 400 • Portland, OR 97214
 Ph: 503.233.2400

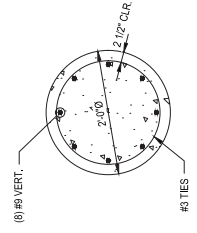
PROJECT NAME
 BEAVER CREEK BRIDGE REPLACEMENT
 TROUTDALE, OREGON

DRAWING NO.
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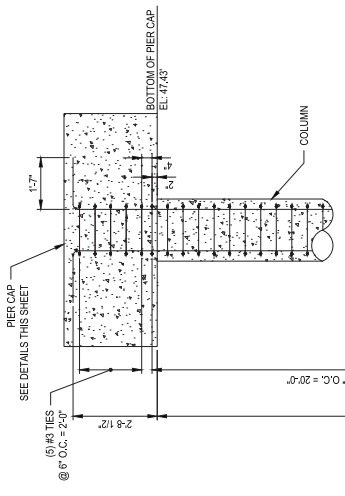
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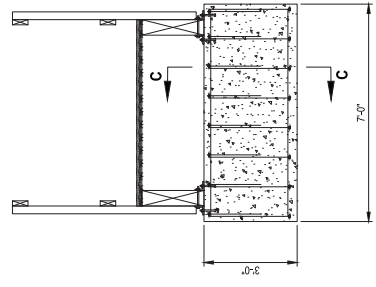
SECTION B-B
SCALE: NTS



SECTION A-A
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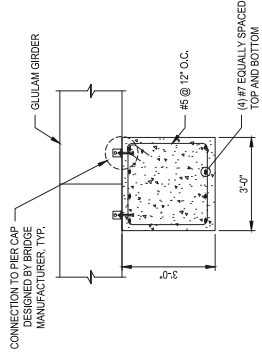


PIER CAP ELEVATION
SCALE: NTS

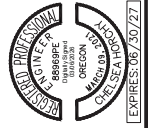


CENTER PIER COLUMN ELEVATION
SCALE: NTS

NOTE: FOUNDATION AND PIER CAP REINFORCEMENT NOT SHOWN FOR CLARITY



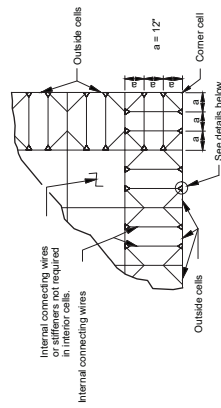
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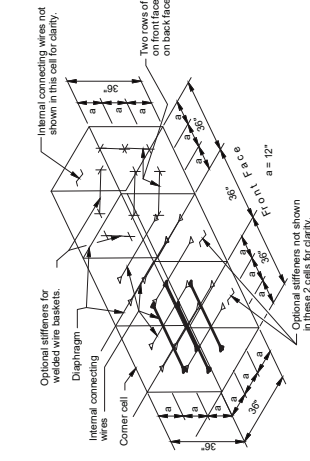
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308 182	74-182-2010
DATE	MARCH 2026

REVISIONS	DATE	BY	DESIGNED	CHK

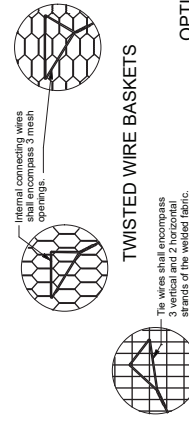
GABION RETAINING WALL DETAILS



TYPICAL PLAN FOR INTERNAL CONNECTING WIRES

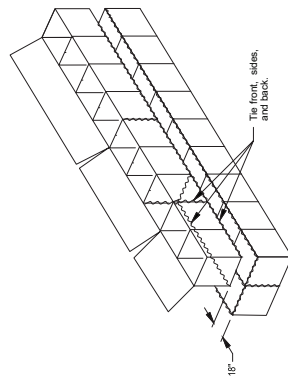


INTERNAL CONNECTING WIRES

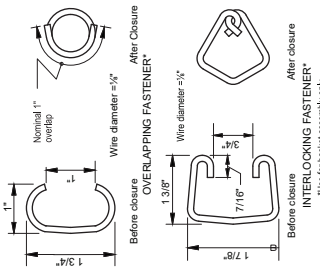


OPTIONAL STIFFENER CONNECTION FOR WELDED WIRE GABION BASKETS

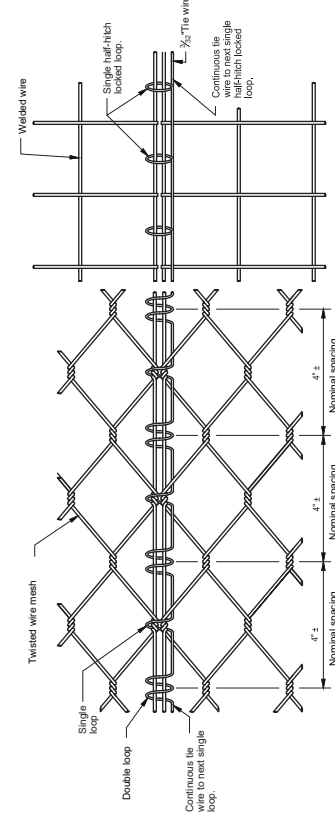
WELDED WIRE BASKETS



GABION BASKET TYING DETAIL



ALTERNATE GABION JOINT FASTENERS
(FASTENER DIMENSIONS NOMINAL)



STANDARD 3/32\" TIE WIRE DETAIL



GABION ABUTMENT DETAILS
SCALE: NTS



DATE	BY	DESIGNED	CHKD
		SM	SM
		CHG'D	SM
		APPROVED	CHKD

REVISIONS	

FILE NAME	3/26 GABION DETAIL
DATE	07/14/18 - 02/20/20
DATE	MARCH 2026

Parametrix
BEAVER CREEK BRIDGE REPLACEMENT
TROUTDALE, OREGON

NOTES:

1. PREFABRICATED MODULAR RETAINING WALL SYSTEM SHALL BE PROVIDED BY ONE OF THE FOLLOWING MANUFACTURERS, OR APPROVED EQUAL:
 - a. ARTVEILD GABION RETAINING WALL SYSTEM, PROVIDED BY HILFKER RETAINING WALLS
 - b. MACCAGERRI GABION RETAINING WALL SYSTEM, PROVIDED BY MACCAGERRI
 - c. MODULAR GABION SYSTEMS RETAINING WALL SYSTEM, PROVIDED BY C.C. SHEPHERD COMPANY, L.P.
2. RETAINING WALL DESIGN PARAMETERS: (ASSUMING 2H:1V MAXIMUM SLOPES WITHIN A HORIZONTAL DISTANCE EQUAL TO THE HEIGHT OF THE WALL).
 - a. NOMINAL BEARING PRESSURE (LRFD DESIGN):
 - STRENGTH: 6000 PSF.
 - SERVICE: 2000 PSF.
 - b. RETAINED SOIL UNIT DENSITY: 125 PCF
 - c. RETAINED SOIL ANGLE OF INTERNAL FRICTION: 34 DEGREES
 - d. EQUIVALENT ACTIVE FLUID UNIT WEIGHT: 55 PCF
 - e. SEISMIC EQUIVALENT ACTIVE FLUID UNIT WEIGHT: 28 PCF
 - f. COEFFICIENT OF FRICTION FOR SLIDING: 0.6
 - g. THE BASE OF THE WALL SHALL BE MINIMUM OF 24 INCHES BELOW FINISH GRADE
3. REFER TO GEOTECHNICAL INVESTIGATION NORTH BEAVER CREEK BRIDGE REPLACEMENT PREPARED BY GRI DATED DECEMBER 16, 2025 FOR GEOTECHNICAL RECOMMENDATIONS.
4. THE WALL FOOTING PAD SHALL BE A MINIMUM 6 INCH THICK GRANULAR BASE, COMPACTED TO 95% OF MAXIMUM DRY DENSITY PER ASTM D1557 (MODIFIED PROCTOR).
5. WALL MANUFACTURER TO SUBMIT STAMPED WORKING DRAWINGS AND DESIGN CALCULATIONS FOR REVIEW.
6. GABION BASKETS - FINISH GABION BASKETS MEETING THE REQUIREMENTS OF SECTION 02340.
7. GABION BASKET FILL - FURNISH A DURABLE WELL GRADED 4 TO 8 INCH ROCK MATERIAL, MEETING THE REQUIREMENTS OF SECTION 05390.
8. GEOTEXTILE FILTER BETWEEN BACKFILL AND GABION WALL - FURNISH TYPE 2, LEVEL B RIPRAP GEOTEXTILE ACCORDING TO SECTION 00390.
9. GABION WALLS.
 - a. GENERAL - SELECT AND USE:
 - THE SAME STYLE MESH FOR THE GABION PANEL BASES, ENDS, SIDES, DIAPHRAGMS, AND LIDS.
 - THE SAME METHOD OF JOINING THE EDGES OF A SINGLE GABION UNIT.
 - THE SAME METHOD OF TYING SUCCESSIVE GABION UNITS TOGETHER THROUGHOUT EACH STRUCTURE.
 - b. ASSEMBLY - ASSEMBLE EACH STYLE OF GABION BY ROTATING THE PANELS INTO POSITION AND JOINING THE VERTICAL EDGES WITH A TIE WIRE OR ALTERNATE FASTENERS. IF TWISTED WIRE PANELS ARE TIED WITH TIE WIRE, JOIN THE SEWAGE VERTICAL EDGES WITH ALTERNATING SINGLE AND DOUBLE LOOPS AT 4 INCH NOMINAL SPACING.
 - IF WELDED WIRE PANELS ARE TIED WITH TIE WIRE, PASS THE TIE WIRE THROUGH EACH MESH OPENING ALONG THE VERTICAL EDGES AND SECURE WITH A HALF-HITCH LOCKED LOOP.
 - THE VERTICAL EDGES GREATER THAN 4 3/4 INCHES (LINE DIMENSION) ALONG THE EDGES OR AT CORNERS OF TIED OR SPIRAL BOUND GABIONS OF EITHER MESH STYLE. CRIMP THE EDGES OF SPIRAL BINDING WIRE TO SECURE THE SPIRAL IN PLACE.
 - IF HIGH TENSILE FASTENERS ARE USED INSTEAD OF TIE WIRE, INSTALL ONE FASTENER IN EACH MESH OPENING ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.
 - c. PLACEMENT - SET THE EMPTY GABIONS IN PLACE AND CONNECT EACH GABION TO THE ADJACENT GABION ALONG THE TOP AND VERTICAL EDGES WITH TIE WIRE OR SPIRAL BINDERS. CONNECT EACH LAYER OF GABIONS TO THE UNDERLYING LAYER ALONG THE FRONT, BACK AND SIDES WITH TIE WIRE OR SPIRAL BINDERS IN THE SAME MANNER AS SPECIFIED FOR ASSEMBLY OF BASKETS. COMMON WALL CONSTRUCTION WILL NOT BE ALLOWED. BEFORE FILLING EACH GABION WITH ROCK, REMOVE ALL KINKS AND FOLDS IN THE WIRE FABRIC AND PROPERLY ALIGN ALL BASKETS. REMOVE ALL TEMPORARY CLIPS AND FASTENERS. THE ASSEMBLED GABION BASKETS MAY BE PLACED IN TENSION BEFORE FILLING. CONCURRENTLY WITH THE FILLING OF THE BASKETS, PLACE GRANULAR STRUCTURE BACKFILL AROUND THE ASSEMBLED BASKETS TO THE LIMITS SHOWN. MAINTAIN THE OUTSIDE BACKFILL, APPROXIMATELY LEVEL WITH THE INSIDE FILL.

- d. BASKET FILLING - PLACE ROCK BY HAND OR MACHINE. MAINTAIN BASKET ALIGNMENT, AVOIDING BULGES, AND FILL WITH MINIMUM VOIDS. PROVIDE AN EXPOSED ROCK SURFACE THAT IS SMOOTH, NEAT APPEARING, AND HAS NO SHARP EDGES PROJECTING THROUGH THE WIRE MESH. PLACE THE ROCK IN LAYERS TO ALLOW PLACEMENT OF INTERNAL CONNECTING WIRES IN EACH OUTSIDE CELL OF THE STRUCTURE OR WHEN DIRECTED AT THE FOLLOWING INTERVALS.
 - NONE REQUIRED FOR 1 FOOT HIGH BASKETS.
 - AT ONE HALF POINT FOR 1 1/2 FOOT HIGH BASKETS.
 - AT ONE THIRD POINT FOR 3 FOOT HIGH BASKETS.
- e. FILL THE BASKET SO THE LID WILL BEAR ON THE ROCK WHEN IT IS CLOSED. SECURE THE LID TO THE SIDES, ENDS, AND DIAPHRAGMS WITH TIE WIRE OR SPIRAL BINDERS IN THE SAME MANNER AS ASSEMBLING THE BASKETS. REPAIRS - DURING CONSTRUCTION, REPAIR AND SECURE ALL BREAKAGE OF THE WIRE MESH THAT RESULTS IN A RUSH OR JOINT OPENINGS LARGER THAN 4 3/4 INCHES (LINE DIMENSION). MAKE REPAIRS USING 13 1/2 GAUGE GALVANIZED TIE WIRE AS DIRECTED.
 - REPAIR DAMAGED PVC COATED WIRE IN A MANNER THAT PROVIDES THE SAME DEGREE OF CORROSION RESISTANCE AS THE UNDAUNAGED WIRE, ACCORDING TO THE MANUFACTURERS RECOMMENDED REPAIR PROCEDURES AND AS APPROVED.
- f. TOLERANCES:
 - FIRST COURSE OF GABION UNITS WITHIN ± 1/4 INCH OF THE DESIGN HORIZONTAL ALIGNMENT.
 - FINAL OUT OF PLANE CONCURRENCY OR CONVEXITY WITHIN ± 2 INCHES IN 10 FEET.
 - FINAL DEVIATION FROM THE DESIGN BATTER WITHIN ± 1 INCH FOR EACH 10 FEET OF WALL HEIGHT.
 - OUTWARD LEANING BATTER IS ZERO.
 - OUT OF PLANE OFFSET BETWEEN CONSECUTIVE ROWS WITHIN ± 1 INCH FROM THE PLAN



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FILE NAME	REVISION	DATE	BY
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