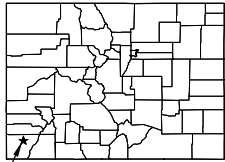


DOLORES FISHING ACCESS AND HABITAT IMPROVEMENT TOWN OF DOLORES, COLORADO



PROJECT LOCATION
NOT TO SCALE

CONTACTS:

ENGINEER CONTACT:
NATHAN CAMPEAU, PE
BARR ENGINEERING CO.
225 E 16TH AVE
FLOOR 5, SUITE 500
DENVER, CO 80203
612-710-8140
NCAMPEAU@BARR.COM

PROPERTY OWNER'S REPRESENTATIVE:
KENNETH CHARLES
TOWN OF DOLORES, CO
601 CENTRAL AVENUE
DOLORES, CO 81323
970-882-7720
MANAGER@TOWNOFDOLORES.COM



09/24/2025

PROJECT DATUM:
HORIZONTAL: COLORADO STATE PLANE (NAD83), SOUTH ZONE, US FT
VERTICAL: NAVD 88

I HEREBY CERTIFY THAT THE PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF COLORADO.

PRINTED NAME: NATHAN CAMPEAU
SIGNATURE:
DATE: 09/24/2025 LICENSE # 57414

#	BY	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION
0	EFF	SNB3	NDC	09/24/2025	ISSUED FOR BID



TOWN OF DOLORES
DOLORES, COLORADO

DOLORES FISHING ACCESS & HABITAT IMPROVEMENT DOLORES, COLORADO	BARR PROJECT # 06421003.00
COVER SHEET, VICINITY MAP, AND SHEET INDEX	DWG # G-01
	REV # 0

SHEET INDEX

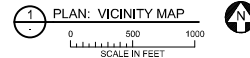
SHEET	TITLE
G-01	COVER SHEET, INDEX, AND VICINITY MAP
G-02	EROSION CONTROL PLAN - AREA 1
G-03	EROSION CONTROL PLAN - AREA 2
G-04	EROSION CONTROL DETAILS AND NOTES

C-01	SITE PLAN - AREA 1
C-02	SITE PLAN - AREA 2
C-03	SITE PHOTOS - AREA 1
C-04	SITE PHOTOS - AREA 2
C-05	DETAILS
C-06	DETAILS

R-01	RESTORATION DETAILS AND NOTES
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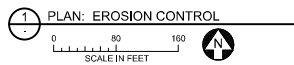
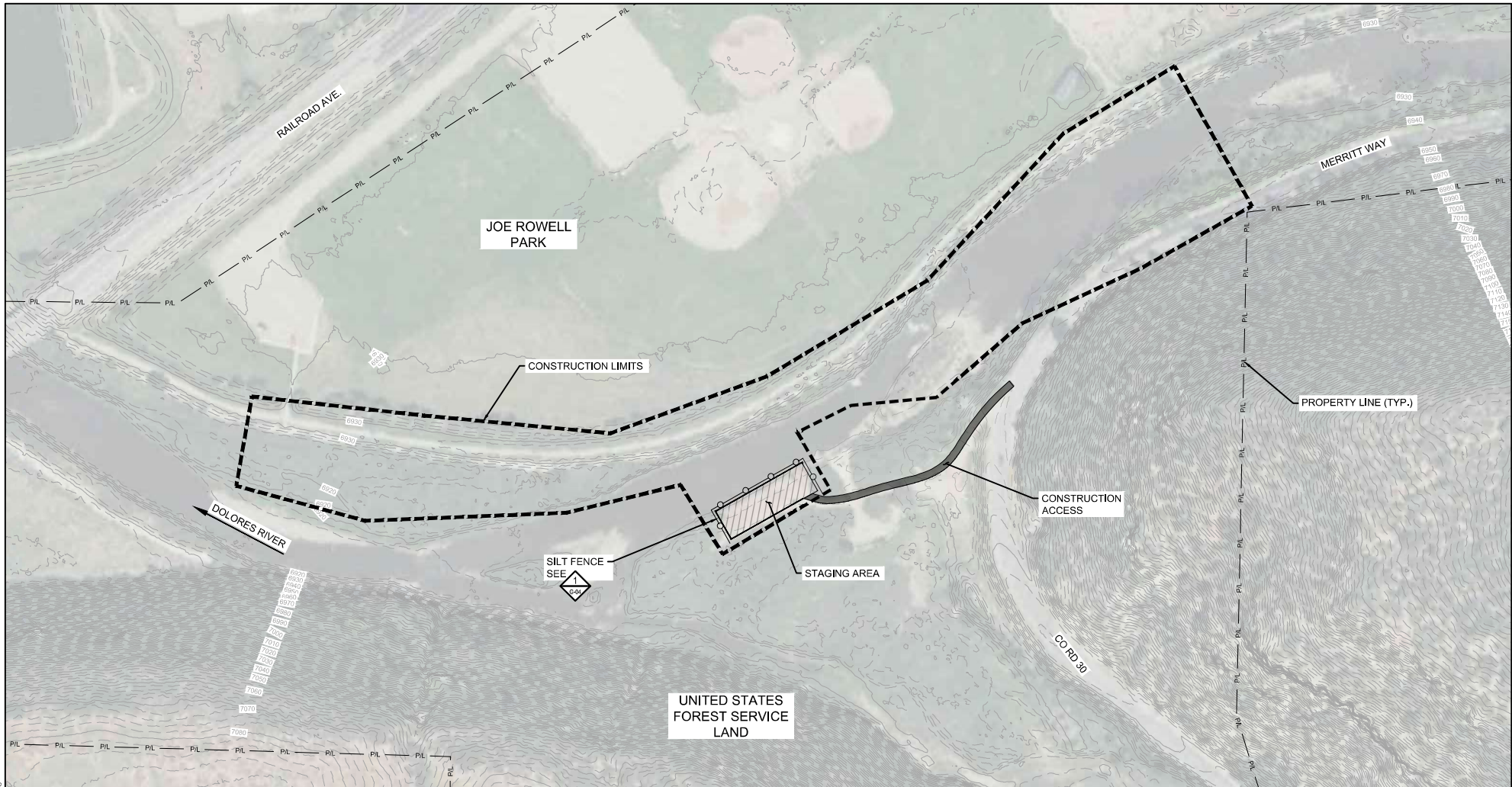
GENERAL NOTES:

- COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES, PERMITS, AND REGULATIONS.
- VERIFY ALL QUANTITIES, GRADES, AND DIMENSIONS.
- TOPOGRAPHIC INFORMATION IS BASED ON 2020 LIDAR TOPOGRAPHY.
- IMAGERY: COPYRIGHT MONTEZUMA COUNTY, COLORADO, 2024.



ISSUED FOR BID

ORIGINAL DRAWING SIZE: 11.69 x 17.00 INCHES (A0) SCALE: 1/2" = 100' DATE: 09/24/2025 1:56 PM
CADD USER: JHCP - IT COMPANY FILE: M:\63849645\DOLORES\DOLORES.dwg



09/24/2025

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PRINTED NAME: NATHAN D'AMICO
SIGNATURE:
DATE: 09/24/2025 LICENSE #: 57414

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BARR ENGINEERING CO.
776 E. SECOND AVENUE
DURANGO, CO 81301
PH: 1-970-382-7255
WWW.BARR.COM
MINNESOTA ENGINEERING FIRM
NUMBER 10104111545

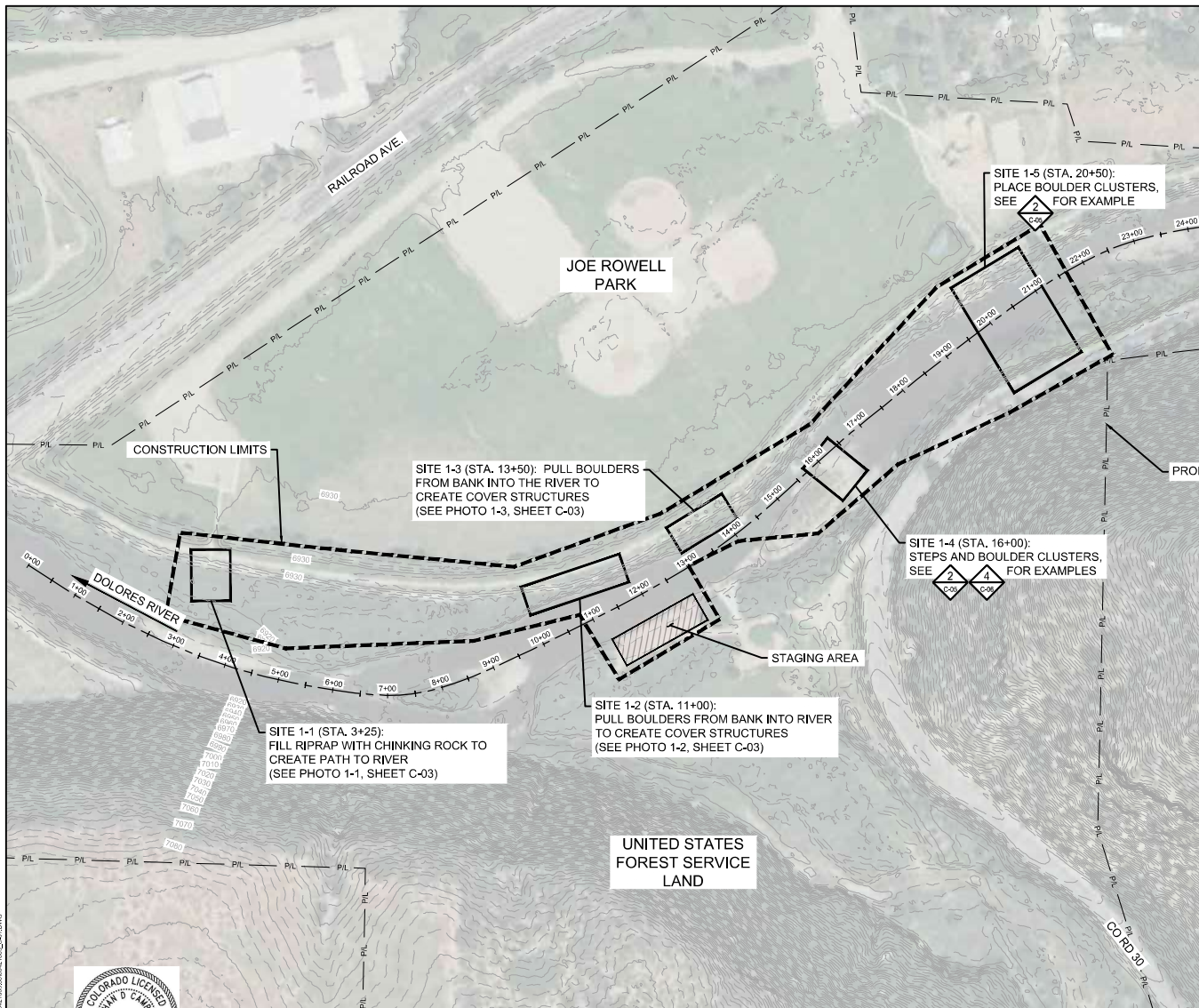
TOWN OF DOLORES
DOLORES, COLORADO

DOLORES FISHING ACCESS & HABITAT IMPROVEMENT
DOLORES, COLORADO
EROSION CONTROL PLAN
AREA 1

ISSUED FOR BID

BARR PROJECT #	06421003.00
DWG #	G-02
REV #	0

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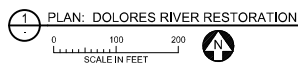


09/24/2025

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PRINTED NAME: NATHAN CAMPEAU
SIGNATURE: [Signature]
DATE: 09/24/2025 LICENSE #: 57414

#	BY	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION
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WWW.BARR.COM
MINNESOTA ENGINEERING FIRM
NUMBER 10104111545

TOWN OF DOLORES
DOLORES, COLORADO

APPROXIMATE QUANTITIES						
SITE	FEATURE	TYPE	UNIT	ON-SITE*	OWNER-SUPPLIED**	CONTRACTOR-SUPPLIED***
1-1	FILL PATH TO RIVER	CLASS B ANGULAR FILTER MATERIAL	CY	0	0	5
1-2	COVER STRUCTURE	BOULDERS	EA	10	0	0
1-3	COVER STRUCTURE	BOULDERS	EA	10	0	0
1-4	NEW STEPS	STEPPER BOULDERS	EA	0	15	0
	NEW STEPS	CLASS B ANGULAR FILTER MATERIAL	CY	0	0	1
	BOULDER CLUSTERS	BOULDERS	EA	0	0	16
1-5	BOULDER CLUSTERS	BOULDERS	EA	0	0	16

* EXISTING MATERIALS WITHIN 50-FEET OF SITE TO BE USED.

** OWNER SUPPLIED BOULDERS STORED AT WATER TREATMENT FACILITY.

*** CONTRACTOR RESPONSIBLE FOR PURCHASE AND HAUL TO SITE.

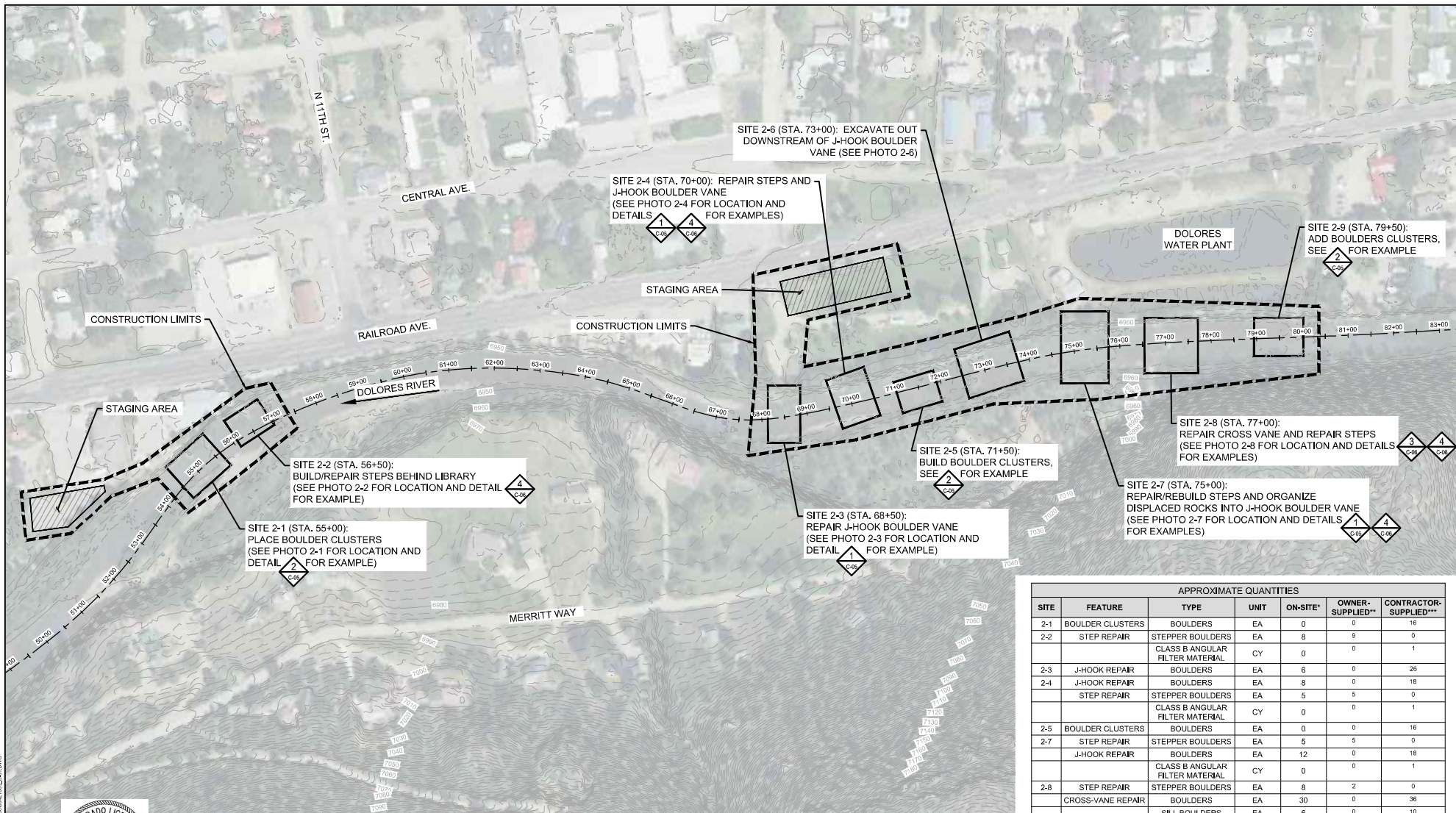
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DOLORES FISHING ACCESS & HABITAT IMPROVEMENT
DOLORES, COLORADO

SITE PLAN
AREA 1

BARR PROJECT #	06421003.00
DWG #	C-01
REV #	0

ORIGINAL DRAWING SIZE: ANS AND FULL BLENDED 11.75" X 17.00" (BATCHES) (NOT SCALE) 1:2 PLOT DATE: 04/02/2025 2:00 PM
CADD USER: BARR P. IT COMPANY THE M. 635 BARR ENGINEERING COMPANY, COLORADO



09/24/2025

HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF COLORADO.

PRINTED NAME: NATHAN CAMPEAU
SIGNATURE: _____
DATE: 09/24/2025 LICENSE #: 57414

#	BY	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION
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TOWN OF DOLORES
DOLORES, COLORADO

DOLORES FISHING ACCESS & HABITAT IMPROVEMENT
DOLORES, COLORADO
SITE PLAN
AREA 2

ISSUED FOR BID

BARR PROJECT # 06421003.00
DWG # C-02
REV # 0

APPROXIMATE QUANTITIES						
SITE	FEATURE	TYPE	UNIT	ON-SITE*	OWNER-SUPPLIED**	CONTRACTOR-SUPPLIED***
2-1	BOULDER CLUSTERS	BOULDERS	EA	0	0	16
2-2	STEP REPAIR	STEPPER BOULDERS	EA	8	9	0
		CLASS B ANGULAR FILTER MATERIAL	CY	0	0	1
2-3	J-HOOK REPAIR	BOULDERS	EA	6	0	26
2-4	J-HOOK REPAIR	BOULDERS	EA	8	0	18
	STEP REPAIR	STEPPER BOULDERS	EA	5	5	0
		CLASS B ANGULAR FILTER MATERIAL	CY	0	0	1
2-5	BOULDER CLUSTERS	BOULDERS	EA	0	0	16
2-7	STEP REPAIR	STEPPER BOULDERS	EA	5	5	0
	J-HOOK REPAIR	BOULDERS	EA	12	0	18
		CLASS B ANGULAR FILTER MATERIAL	CY	0	0	1
2-8	STEP REPAIR	STEPPER BOULDERS	EA	8	2	0
	CROSS-VANE REPAIR	BOULDERS	EA	30	0	36
		SILL BOULDERS	EA	6	0	10
		CLASS B ANGULAR FILTER MATERIAL	CY	0	0	1
2-9	BOULDER CLUSTERS	BOULDERS	EA	0	0	16

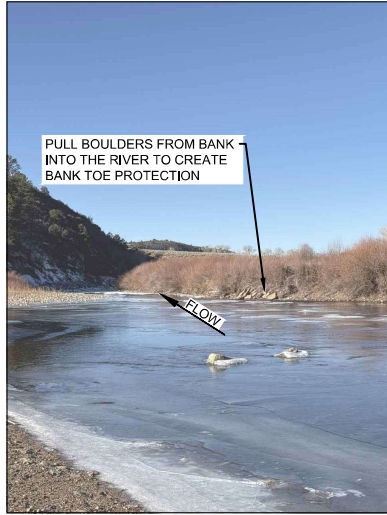
* EXISTING MATERIALS WITHIN 50-FOOT OF SITE TO BE USED.

** OWNER SUPPLIED BOULDERS STORED AT WATER TREATMENT FACILITY.

*** CONTRACTOR RESPONSIBLE FOR PURCHASE AND HAUL TO SITE.



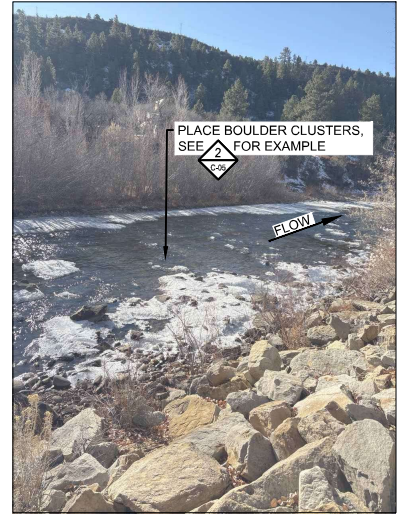
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(PHOTO 1-2: STA. 11+00)

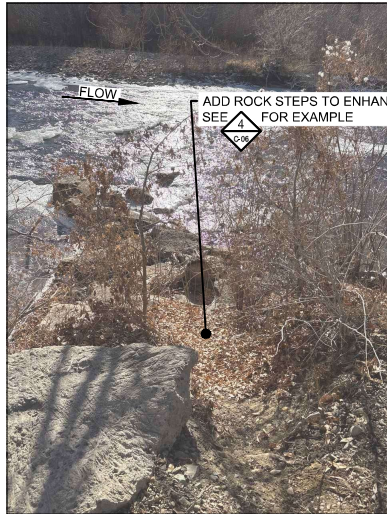


(PHOTO 1-3: STA. 13+50)



(PHOTO 2-1: STA. 16+00)

NOTE:
FOR THE ESTIMATED 25-FT LENGTH OF RIPRAP:
PLACE 6-INCHES OF 3" D50 TO FILL PRIMARY
VOIDS AND 2-INCHES OF ROAD BASE
AGGREGATE ON TOP FOR WALKING SURFACE.



(PHOTO 2-2: STA. 20+50)



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PRINTED NAME: NATHAN CAMPEAU
SIGNATURE: [Signature]
DATE: 09/24/2025 LICENSE # 57414

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#	BY	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION	

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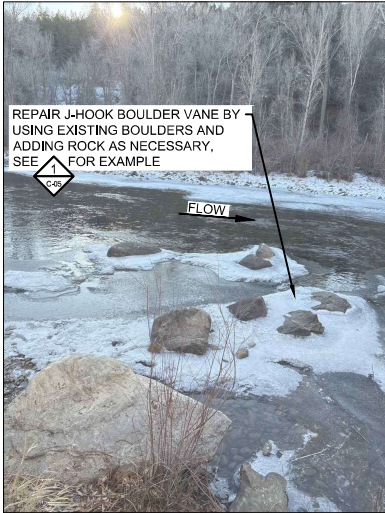
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DURANGO, CO 81301

PH: 1-970-382-7295
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MINNESOTA ENGINEERING FIRM
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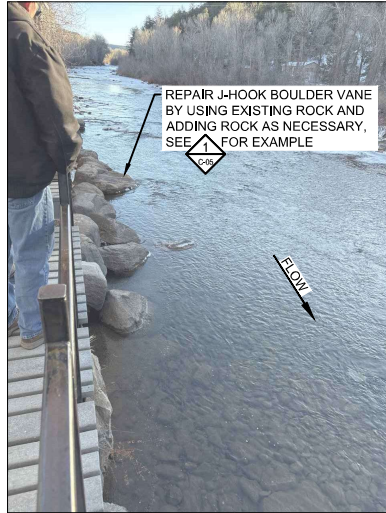
TOWN OF DOLORES
DOLORES, COLORADO

DOLORES FISHING ACCESS & HABITAT IMPROVEMENT
DOLORES, COLORADO
SITE PHOTOS
AREA 1

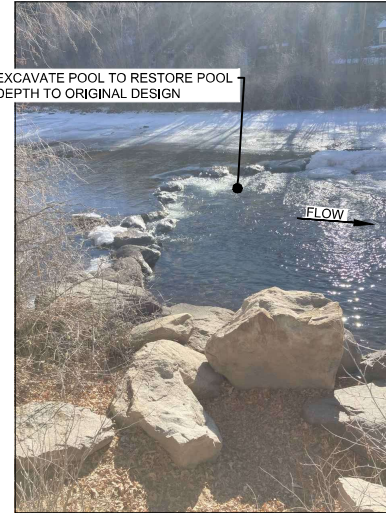
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DWG #	C-03
REV #	0



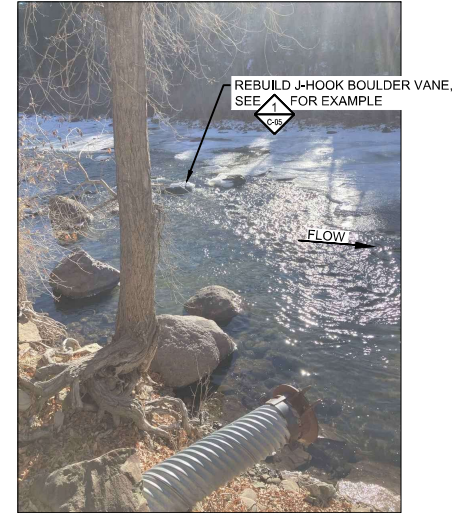
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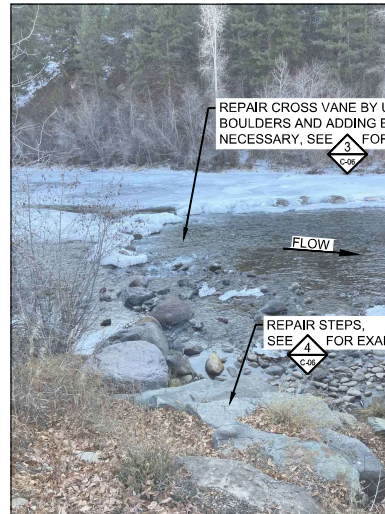
(PHOTO 2-4: STA. 70+00)



(PHOTO 2-6: STA. 73+00)



(PHOTO 2-7: STA. 75+00)



(PHOTO 2-8: STA. 77+00)



09/24/2025

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SIGNATURE: [Signature]
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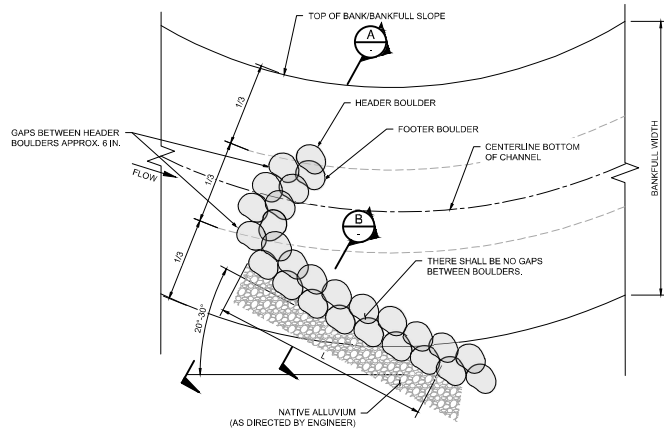
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DOLORES, COLORADO

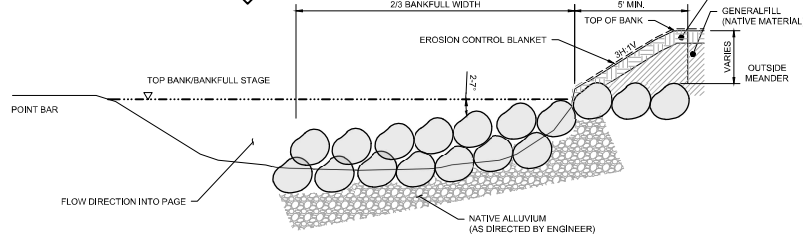
DOLORES FISHING ACCESS & HABITAT IMPROVEMENT
DOLORES, COLORADO
SITE PHOTOS
AREA 2

ISSUED FOR BID

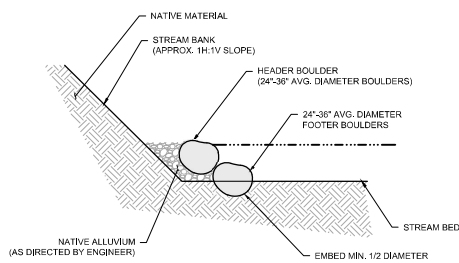
BARR PROJECT #	06421003.00
DWG #	C-04
REV #	0



1 DETAIL: J-HOOK BOULDER VANE
NOT TO SCALE



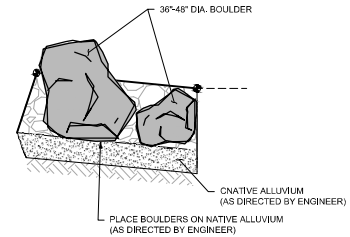
A SECTION: J-HOOK BOULDER VANE
NOT TO SCALE



B SECTION: J-HOOK BOULDER VANE
NOT TO SCALE

NOTES:

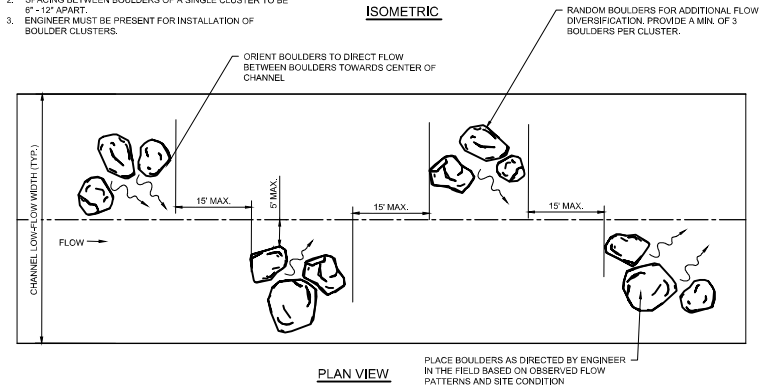
1. THE VANE ARM OF THE BOULDER J-HOOK SHALL BE CONSTRUCTED FIRST, FOLLOWED BY THE HOOK.
2. EXAMPLE BUILDING PROCEDURE:
 - A. PLACE FOOTER BOULDERS OF THE VANE ARM. THERE SHALL BE NO GAPS BETWEEN BOULDERS.
 - B. PLACE COARSE BACKFILL BEHIND THE FOOTER BOULDERS.
 - C. INSTALL HEADER BOULDERS ON THE VANE ARM ON TOP OF AND SET SLIGHTLY BACK FROM THE FOOTER BOULDERS (SUCH THAT PART OF THE HEADER BOULDER IS RESTING ON THE COARSE BACKFILL). HEADER BOULDERS SHALL SPAN THE SEAMS OF THE FOOTER BOULDERS. THERE SHALL BE NO GAPS BETWEEN BOULDERS.
 - D. PLACE COARSE BACKFILL BEHIND HEADER BOULDERS ENSURING THAT ANY VOIDS BETWEEN THE BOULDERS ARE FILLED. COMPACTION TO BE ACHIEVED THROUGH WALK-DOWN OR BUCKET TAMPING METHODS TO PROVIDE INTERLOCK AND REDUCE SETTLEMENT. DO NOT PLACE BACKFILL MATERIAL DURING HIGH FLOW CONDITIONS OR ON FROZEN OR SATURATED SUBGRADE.
 - E. PLACE EACH BOULDER TO FORM THE HOOK BY INSTALLING A FOOTER BOULDER, THEN A HEADER BOULDER. GAPS AS WIDE AS 1/4 TO 1/3 THE BOULDER DIAMETER SHALL BE LEFT BETWEEN THE HOOK BOULDERS.



ISOMETRIC

NOTES:

1. NUMBER OF BOULDER CLUSTERS AS NOTED ON STREAM STABILIZATION PLAN.
2. SPACING BETWEEN BOULDERS OF A SINGLE CLUSTER TO BE 6" - 12" APART.
3. ENGINEER MUST BE PRESENT FOR INSTALLATION OF BOULDER CLUSTERS.



PLAN VIEW

2 DETAIL: BOULDER CLUSTERS
NOT TO SCALE



09/24/2025

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PRINTED NAME: NATHAN CAMPEAU
SIGNATURE: [Signature]
DATE: 09/24/2025 LICENSE # 57414

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776 E. SECOND AVENUE
DURANGO, CO 81301

PH: 1-970-382-7255
WWW.BARR.CO
MINNESOTA ENGINEERING FIRM
NUMBER 10104111545

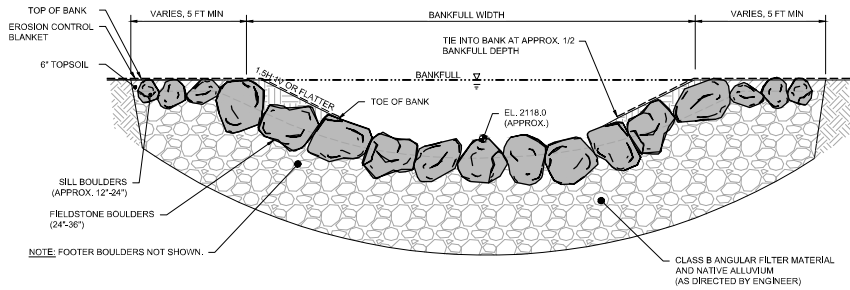
TOWN OF DOLORES
DOLORES, COLORADO

DOLORES FISHING ACCESS & HABITAT IMPROVEMENT
DOLORES, COLORADO

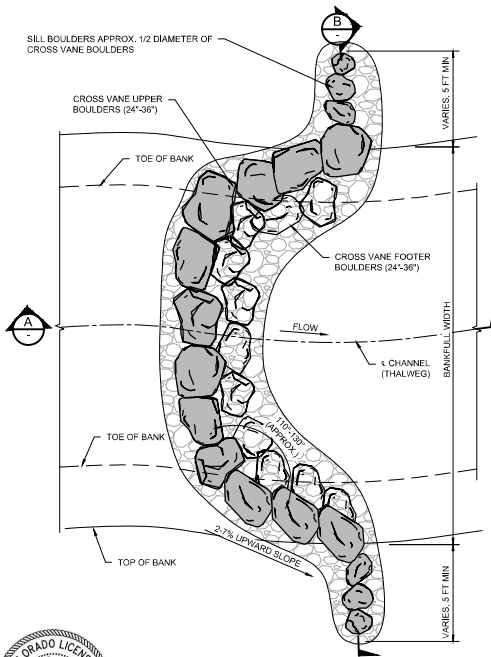
DETAILS

ISSUED FOR BID

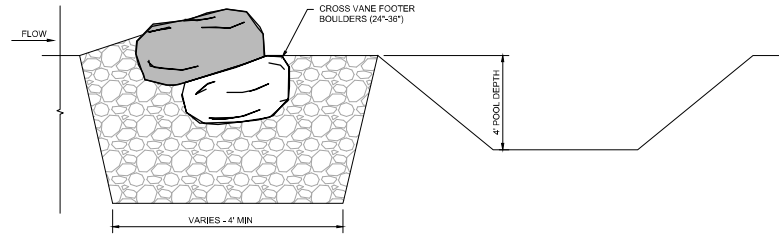
BARR PROJECT #	06421003.00
DWG #	C-05
REV #	0



B SECTION: CROSS VANE - DOUBLE BOULDER



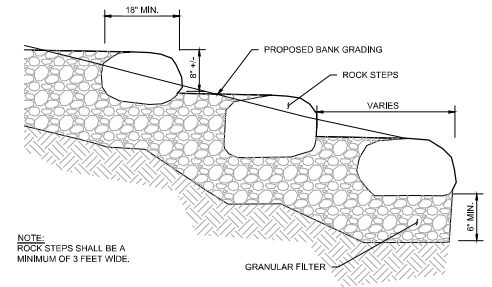
3 DETAIL: CROSS VANE - DOUBLE BOULDER



A SECTION: CROSS VANE - DOUBLE BOULDER

NOTES:

- CROSS VANE LOCATIONS AND ELEVATIONS ARE APPROXIMATE AND MAY BE MODIFIED IN THE FIELD BY THE ENGINEER.
- FINAL BOULDER PLACEMENT TO BE APPROVED BY THE ENGINEER. IN THE FIELD, CONTRACTOR MAY BE REQUIRED TO ADJUST BOULDER ELEVATIONS AND ROTATION.
- THERE SHALL BE NO SIGNIFICANT GAPS BETWEEN BOULDERS. COBBLESTONE BEDDING SHALL BE PLACED ON THE UPSTREAM SIDE OF THE BOULDERS TO PLUG SMALL GAPS (MAY REQUIRE HAND PLACEMENT).
- BOULDERS OF AN UNSUITABLE SHAPE MAY BE REJECTED AND PLACED IN A SUITABLE LOCATION ON RIVERBANK, LOCATION TO BE APPROVED BY ENGINEER.
- BOULDER CUTOFF SILL IS INCIDENTAL TO BOULDER VANE CONSTRUCTION AT THE LENGTH SHOWN IN THE DRAWINGS (5 FT MIN).



NOTE:
ROCK STEPS SHALL BE A
MINIMUM OF 3 FEET WIDE.

4 DETAIL: ROCK STEPS
NOT TO SCALE



09/24/2025

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PRINTED NAME: NATHAN CAMPEAU
SIGNATURE: *Nathan Campeau*
DATE: 09/24/2025 LICENSE # 57414

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BARR ENGINEERING CO.
776 E. SECOND AVENUE
DURANGO, CO 81301
PH: 1-970-382-7250
WWW.BARR.CO
MINNESOTA ENGINEERING FIRM
NUMBER 10104111545

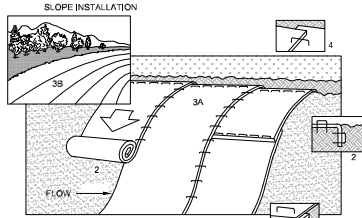
TOWN OF DOLORES
DOLORES, COLORADO

DOLORES FISHING ACCESS & HABITAT IMPROVEMENT
DOLORES, COLORADO

DETAILS

ISSUED FOR BID

BARR PROJECT #	06421003.00
DWG #	C-06
REV #	0



NOTES:

1. REFER TO MANUFACTURER RECOMMENDATIONS FOR STAPLE PATTERNS FOR SLOPE INSTALLATIONS.
2. PREPARE SOIL BY LOOSENING TOP 1-2 INCHES AND APPLY SEED (AND FERTILIZER WHERE REQUIRED) PRIOR TO INSTALLING BLANKETS. GROUND SHOULD BE SMOOTH AND FREE OF DEBRIS.
3. BEGIN (A) AT THE TOP OF THE SLOPE AND ROLL THE BLANKETS DOWN OR (B) AT ONE END OF THE SLOPE AND ROLL THE BLANKETS HORIZONTALLY ACROSS THE SLOPE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 6" OVERLAP, WITH THE UPHILL BLANKET ON TOP.
5. WHEN BLANKETS MUST BE SPICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
6. BLANKET TYPE TO BE HPTM (OR APPROVED EQUAL) WITH SOIL AND SEED MIX.

1 - DETAIL: EROSION CONTROL BLANKET - INSTALLATION
NOT TO SCALE

RESTORATION SEED MIX		
COMMON NAME	BOTANICAL NAME	PLS (lbs/acre)
Arctic Western Wheatgrass	Pascopyrum smith 'Arctic'	4
Pubescent Luna Wheatgrass	Thinopyrum intermedium sp. Barulatum	3.5
Indian Ricegrass 'Rimrock'	Achnatherum hymenoides	1.5
Tall Fescue	Festuca arundinacea	1
Gamel Mountain Brome	Bromus marginatus	3.5
Blue Flax	Linum lewisii	1
Lovington Blue Gramma	Bouteloua gracilis 'Lovington'	1
Gulf (Lonestar) Annual Rye	Lolium perenne ssp. Multiflorum	3.5
Andropogon Bitter-Purshia	Purshia tridentata	0.125
Saltgrass-Fourwing	Atriplex canescens	0.375
Sandl Burnes-Debar	Sansiquisortia minor	0.75
Blue Wildrye	Elymus glaucus	2.75
Ryegrass, Wild Russian Bozoksky	Poastrystachys juncea	1.5
TOTAL		24.5

2 - SEED MIX: RESTORATION
NOT TO SCALE

GENERAL NOTES:

1. CONSTRUCTION WORK MAY BEGIN STARTING DECEMBER 1ST, 2025 WITH SUBSTANTIAL COMPLETION BY JANUARY 15TH, 2026. RESTORATION COMPLETION MUST CONCLUDE WITH THE END OF THE SEEDING WINDOW OF JUNE 1, 2026.
2. RESTORE ALL NON-SEEDING AREAS OF CONSTRUCTION ACCESS AND STAGING AREA TO ORIGINAL CONDITIONS.
3. RESTORE ALL AREAS OF DISTURBANCE TO ORIGINAL CONDITIONS. SEED WITH SPECIFIED SEED MIX FOLLOWING SEEDING NOTES. FOR AREAS ADJACENT TO THE DOLORES RIVER, RESTORATION SHALL MATCH PRE-PROJECT CONDITIONS AND ELEVATIONS, EXCEPT WHERE PERMANENT ACCESS POINTS OR BANK TIE-INS ARE SPECIFIED.
4. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION, SERVICES AND NECESSARY APPURTENANT WORK REQUIRED TO COMPLETE WORK AS SHOWN ON THE DRAWINGS AND/OR AS SPECIFIED HEREIN AND IN THE CONTRACT DOCUMENTS.
5. CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION FROM OWNER FOR ANY INCREASE TO PAY ITEM QUANTITIES PRIOR TO PERFORMING WORK.
6. DISPOSAL OF EXCESS COMMON FILL SHALL BE PLACED IN STOCKPILE(S) AS DIRECTED BY OWNER. STOCKPILED EXCESS MATERIAL SHALL BE GRADED AND STABILIZED TO PREVENT EROSION INTO ANY EXISTING WETLAND OR WATERCOURSE. DESIGNATED STOCKPILE AREAS TO BE IDENTIFIED BY OWNER PRIOR TO CONSTRUCTION.
7. ALL TRASH AND DEBRIS SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF UPON COMPLETION OF CONSTRUCTION. AREAS OUTSIDE THE WORK LIMITS DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED TO THEIR ORIGINAL CONDITION AND CHARACTER BY THE CONTRACTOR. REPAIR SHALL INCLUDE FINISH GRADING AND SEEDING AS REQUIRED TO MATCH EXISTING GRADE AND CONDITIONS (OR AN ALTERNATE CONDITION AGREED TO BY OWNER) AND MAINTENANCE OF REPAIRED AREAS.

SEEDING NOTES:

1. ANY GRASS OR WEEDS WITHIN THE PLANTING BED AREAS SHALL BE SPRAYED WITH HERBICIDE 14 DAYS PRIOR TO SEEDING.
2. ALL HERBICIDE APPLICATION SHALL BE APPLIED BY A LICENSED APPLICATOR.
3. SOIL LOSING AND/OR RIPPING TO A DEPTH OF 12 INCHES SHALL OCCUR PRIOR TO PLACEMENT OF SEED. CONTRACTOR IS TO TAKE CARE TO AVOID UTILITIES AND TREE ROOTS.
4. IMMEDIATELY AFTER SEEDING, TYPE 2.0 EROSION CONTROL BLANKET SHALL BE PLACED OVER ENTIRE SEEDING AREA.
5. DISTURBED AREAS OUTSIDE OF THE CHANNEL THAT ARE NOT OTHERWISE PHYSICALLY PROTECTED FROM EROSION SHALL BE SEED OR PLANTED WITH NATIVE VEGETATION TO ACHIEVE AT LEAST 70% COVERAGE RELATIVE TO NATIVE BACKGROUND VEGETATION.
6. NATIVE WOODY RIPARIAN SPECIES SHALL BE USED IN STREAMBANK AREAS ALONG THE DOLORES RIVER WHERE SUCH VEGETATION IS SUPPORTED.

SEEDING ESTABLISHMENT NOTES:

1. SEEDING AREAS SHALL BE FREE OF DEAD OR DYING PATCHES LARGER THAN ONE SQUARE FOOT FOR ENTIRETY OF WARRANTY OF PLANTING WORK.
2. CONTRACTOR WILL BE RESPONSIBLE FOR WATERING PLANTS (REGARDLESS OF NOTIFICATION) DURING A ONE YEAR WARRANTY PERIOD. WATERING WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
3. ONCE A MONTH (MAY THROUGH OCTOBER) DURING WARRANTY PERIOD CONTRACTOR SHALL INSPECT FOR INVASIVE WEED ENCROACHMENT, DEAD PLANTS AND EROSION PROBLEMS. UPON DISCOVERY OF INVASIVE SPECIES DURING SCHEDULED INSPECTIONS CONDUCT HERBICIDE AND/OR MANUAL TREATMENTS FOR WEED CONTROL.
4. ALL PLANTINGS SHALL BE PROTECTED FROM DISTURBANCE OR DAMAGE UNTIL VEGETATION IS WELL ESTABLISHED.
5. PLANTINGS SHALL BE MONITORED AND MAINTAINED TO ACHIEVE A MINIMUM 80% SURVIVAL RATE THROUGHOUT THE WARRANTY PERIOD.
6. ONCE ESTABLISHED, NATIVE VEGETATION SHALL BE SELF-SUSTAINING AND REQUIRE NO SUPPLEMENTAL WATERING OR TREATMENT BEYOND THE WARRANTY PERIOD.

USACE PERMIT COMPLIANCE NOTES:

TO MINIMIZE OR MITIGATE THE POTENTIAL FOR SEDIMENTATION AND HAZARDOUS MATERIALS, CONSTRUCTION OF THE PROPOSED PROJECT WILL ADHERE TO THE TERMS AND CONDITIONS OF SECTION 401 AND 404 OF THE CLEAN WATER ACT AND WILL EMPLOY DESIGN CRITERIA. THESE DESIGN CRITERIA INCLUDE, BUT ARE NOT LIMITED TO:

1. FUEL, OIL, HYDRAULIC FLUID, LUBRICANTS, AND OTHER PETROCHEMICALS WILL NOT BE STORED WITHIN 200 FEET OF THE DOLORES RIVER OR ITS 100-YEAR FLOODPLAIN AND WILL HAVE A SECONDARY CONTAINMENT SYSTEM TO PREVENT SPILLS. APPROPRIATE SPILL CLEAN-UP MATERIALS SUCH AS BOOMS AND ABSORBENT PADS WILL BE AVAILABLE ON-SITE AT ALL TIMES DURING CONSTRUCTION.
2. ALL HEAVY EQUIPMENT USED IN THE PROJECT AREA WILL BE PRESSURE WASHED AND/OR STEAM CLEANED BEFORE THE START OF THE PROJECT AND INSPECTED DAILY FOR LEAKS. A WRITTEN LOG OF INSPECTIONS AND MAINTENANCE WILL BE COMPLETED. LEAKING EQUIPMENT WILL NOT BE USED IN OR NEAR SURFACE WATER. EQUIPMENT WILL BE REFUELED AT LEAST 100 FEET FROM SURFACE WATER.
3. WORK WITHIN THE CHANNEL WILL BE AVOIDED DURING SPRING RUNOFF SEASON OR OTHER PERIODS OF HIGH FLOWS. LOCAL WEATHER FORECASTS WILL BE MONITORED TO AVOID WORKING WHEN INCREASED SURFACE RUNOFF RESULTS IN HIGH WATER. WORK IN THE STREAM CHANNEL WILL BE LIMITED TO PERIODS OF LOW-FLOW.
4. WHENEVER POSSIBLE HEAVY EQUIPMENT WILL BE OPERATED FROM THE BANK. GRAVEL BARS, TEMPORARY ROADS, OR WORK PLATFORMS AND WILL LIMIT SURFACE WATER ENTRY. HEAVY EQUIPMENT WILL NOT BE PARKED WITHIN THE STREAM CHANNEL.
5. TEMPORARY STRUCTURES WILL BE DESIGNED TO KEEP HEAVY EQUIPMENT FROM WORKING IN FLOWING WATER AND TO KEEP CONSTRUCTION MATERIALS FROM ENTERING THE STREAM CHANNEL. PLANS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO CONSTRUCTION.
6. TEMPORARY ROADS, WORK PLATFORMS, OR DIVERSION STRUCTURES IN STREAM CHANNELS WILL BE PROPERLY DESIGNED, INSTALLED, AND MAINTAINED TO ALLOW PASSAGE OF ANTICIPATED STREAM FLOWS, SEDIMENT, BEDLOAD, AND WOODY DEBRIS AND TO PREVENT EROSION PROBLEMS OR DIVERSION OF THE STREAM FROM ITS PLATFORMS AND DIVERSION STRUCTURES.
7. FLOWING WATER MAY BE TEMPORARILY DIVERTED AROUND THE WORK AREA BUT SHALL REMAIN WITHIN THE EXISTING CHANNEL TO MINIMIZE EROSION AND TURBIDITY AND TO PROVIDE FOR AQUATIC LIFE MOVEMENT. DIVERSION STRUCTURES WILL BE NON-ERODIBLE, SUCH AS SANDBAGS, WATER BLADDERS, CONCRETE BARRIERS, OR CHANNEL LINED WITH GEOTEXTILE OR PLASTIC SHEETING. DIVERSION STRUCTURES WILL BE CAPABLE OF CARRYING ANTICIPATED STREAM FLOWS DURING THE CONSTRUCTION PERIOD. FISH PASSAGE WILL BE MAINTAINED AT ALL TIMES. FISH THAT BECOME STRANDED IN THE DEWATERED CHANNEL WILL BE IMMEDIATELY CAPTURED AND RETURNED TO THE ACTIVE CHANNEL WITHOUT FURTHER HARM.
8. ALL MAN-MADE AND TEMPORARY ROAD, PLATFORM, OR DIVERSION MATERIALS WILL BE REMOVED FROM THE DIVERSION AND WATER RETURNED TO THE ORIGINAL CHANNEL IN A MANNER THAT AVOIDS OR MINIMIZES TURBIDITY AS SOON AS PRACTICABLE.
9. COPIES OF APPLICABLE PERMITS AND APPROVALS AND ASSOCIATED CONDITIONS WILL BE KEPT AT THE PROJECT SITE DURING ALL PHASES OF CONSTRUCTION. ALL CONTRACTORS INVOLVED IN THE PROJECT WILL BE PROVIDED A COPY OF THE CERTIFICATION AND MADE AWARE OF THE CONDITIONS PRIOR TO STARTING CONSTRUCTION.

ISSUED FOR BID



09/24/2025

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: NATHAN CAMPEAU
SIGNATURE: [Signature]
DATE: 09/24/2025 LICENSE #: 57414

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#	BY	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION

BARR
BARR ENGINEERING CO.
776 E. SECOND AVENUE
DURANGO, CO 81301
PH: 1-970-382-7295
WWW.BARR.CO.UK
MINNESOTA ENGINEERING FIRM
NUMBER 10/04111545

TOWN OF DOLORES
DOLORES, COLORADO

DOLORES FISHING ACCESS & HABITAT IMPROVEMENT
DOLORES, COLORADO

RESTORATION DETAILS AND NOTES.

BARR PROJECT #	06421003.00
DWG #	R-01
REV #	0