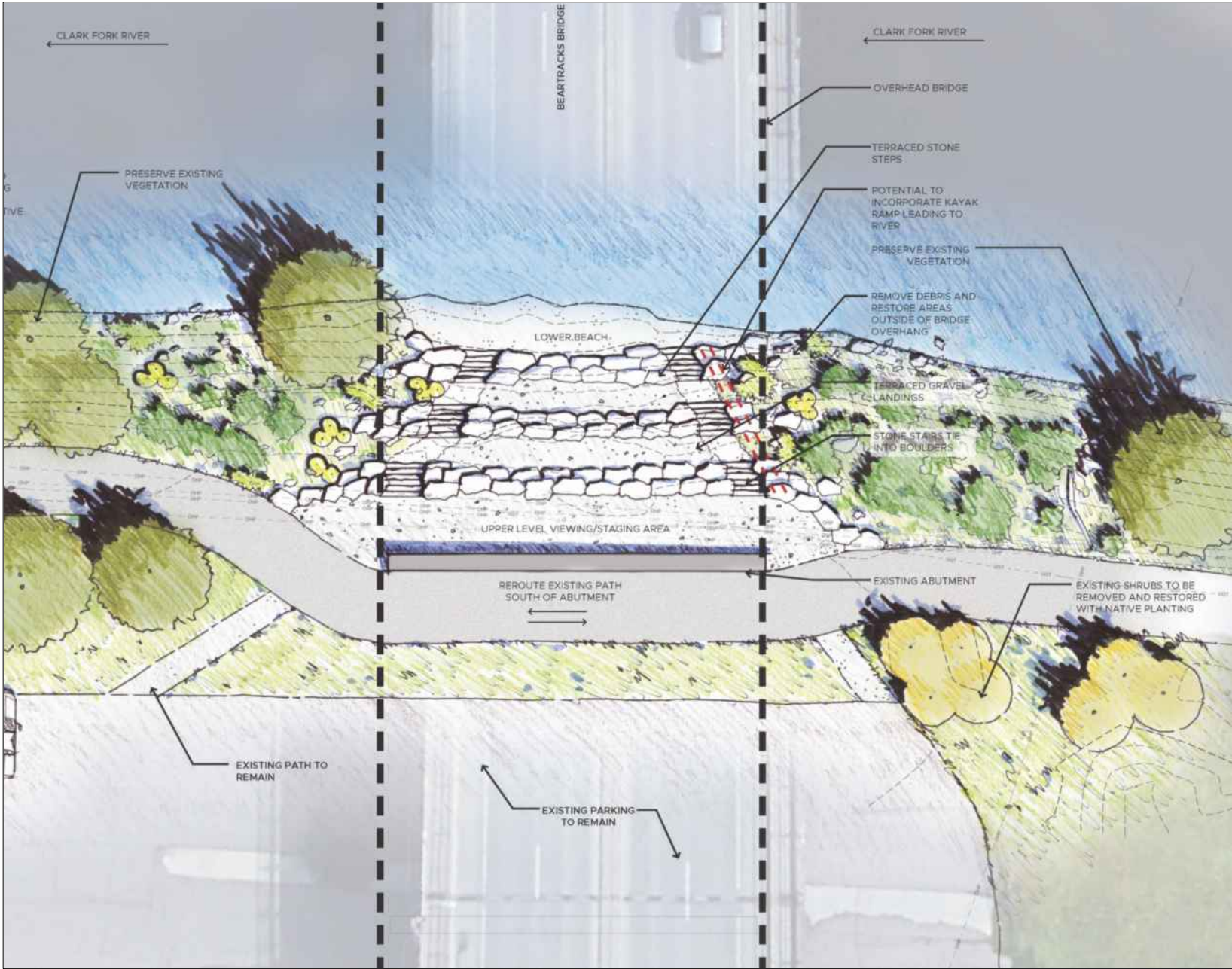
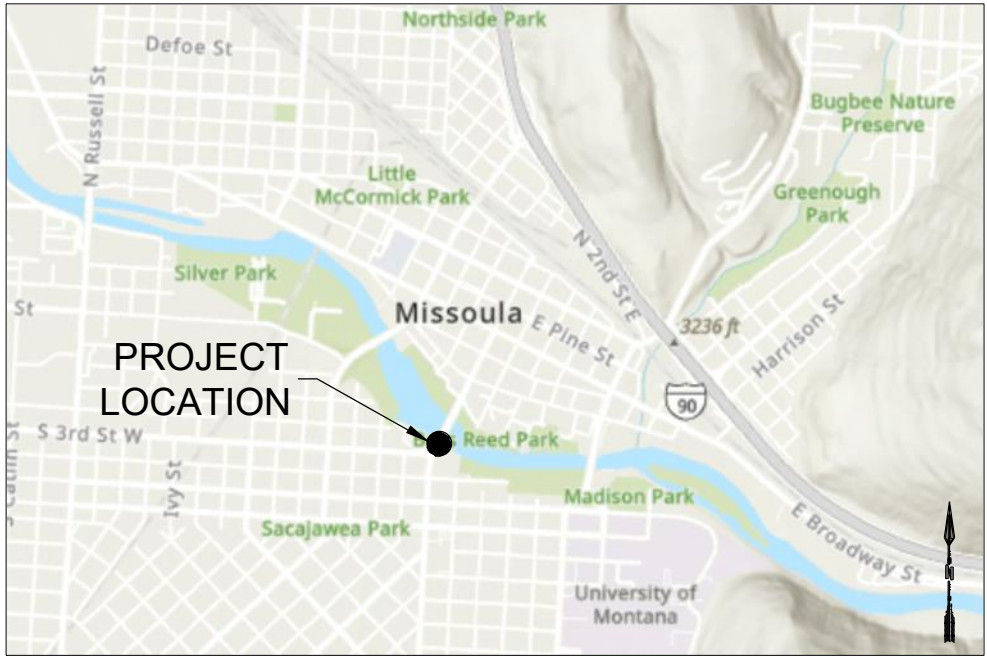


CLARK FORK RIVER RESTORATION AND ACCESS - BEARTRACKS BRIDGE

CITY OF MISSOULA PARKS & RECREATION DEPARTMENT
MISSOULA, MONTANA
MAY 2024
RESPEC PROJECT NO. W0020.21001



PROJECT CONCEPTUAL RENDERING
N.T.S.



PROJECT VICINITY MAP
N.T.S.

MICHAEL ANTHONY ROTAR
REGISTERED PROFESSIONAL ENGINEER
STATE OF MONTANA NO. PEL-PE-LIC-13285

DATE

DESIGNED SRK	DRAWN SRK	CHECKED MAR	DATE 05/2024	REVISION
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CLARK FORK RIVER RESTORATION AND ACCESS - BEARTRACKS BRIDGE				
COVER				
SHEET NUMBER: G-01				
SHEET				

NAME: N:\PROJECTS\W0020.21001 - CFR RESTORATION & ACCESS\CAD SHEETS\ACCESS DESIGN\BEARTRACKS SHEET SET\CFR R&A - BEARTRACKS_S_GENERAL.DWG
PLOT DATE: May 15, 2024 10:03 AM, BY: SANDRA (SANDY) KOHL

NAME: N:\PROJECTS\W0020 21001 - CFR RESTORATION & ACCESS\CAD\SHEETS\ACCESS DESIGN\BEARTRACKS SHEET SET\CFR R&A_BEARTRACKS_S_GENERAL.DWG
PLOT DATE: May 15, 2024 10:03 AM, BY: SANDRA (SANDY) KOHL

SHEET INDEX TABLE	
SHEET NUMBER	SHEET TITLE
GENERAL	
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G-02	SHEET INDEX AND CONSTRUCTION QUANTITIES
G-03	GENERAL NOTES ABBREVIATIONS AND LEGEND
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C-03	ACCESS PLAN & PROFILE
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DETAILS	
D-01	DETAILS
D-02	DETAILS
D-03	DETAILS

BEARTRACKS BRIDGE RIVER ACCESS - CONSTRUCTION QUANTITIES	QUANTITY	UNIT
SITE WORK AND GRADING		
CLEARING AND GRUBBING	1	LS
EROSION CONTROL	1	LS
FG-EG CUT (CY)	43	CY
FG-EG FILL (CY)	91	CY
TOPSOIL	23	CY
SEEDING AREA	1230	SF
RIPRAP (MDT CLASS III)	231	CY
VEGETATED RIPRAP (MDT CLASS III)	69	CY
WILLOW PLANTINGS	166	EA
WOODEN FENCE	177	LF
TRAILS AND LANDINGS		
GEOTEXTILE SEPARATION FABRIC	1995	SF
AGGREGATE BASE COURSE GRAVEL (MIX 1" MINUS)	56	CY
AGGREGATE BASE COURSE GRAVEL (3/4" MINUS)	42	CY
BEDDING GRAVEL (3/4" MINUS)	6	CY
STRUCTURAL FILL	31	CY
SURFACE COURSE GRAVEL (ROAD MIX, 3/8" MINUS)	36	CY
ASPHALT	17	CY
WEST AND EAST ROCK STAIR ACCESS		
FLAT STONE 3'- 4' X 4' X 1' (L X W X H)	16	EA
STAIR STRINGER BOULDERS 2.0' - 2.5' DIAMETER	32	EA
TERRACE BOULDERS	58	EA
KEYSTONE BOULDERS 2.5' X 4' X 2.5' (L X W X H)	4	EA
GROUT (STAIRS, BOULDER STRINGERS)	1	CY
REMOVALS		
ASPHALT	18	CY

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WATER & NATURAL RESOURCES
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BOZEMAN, MT 59718
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**RESPEC**

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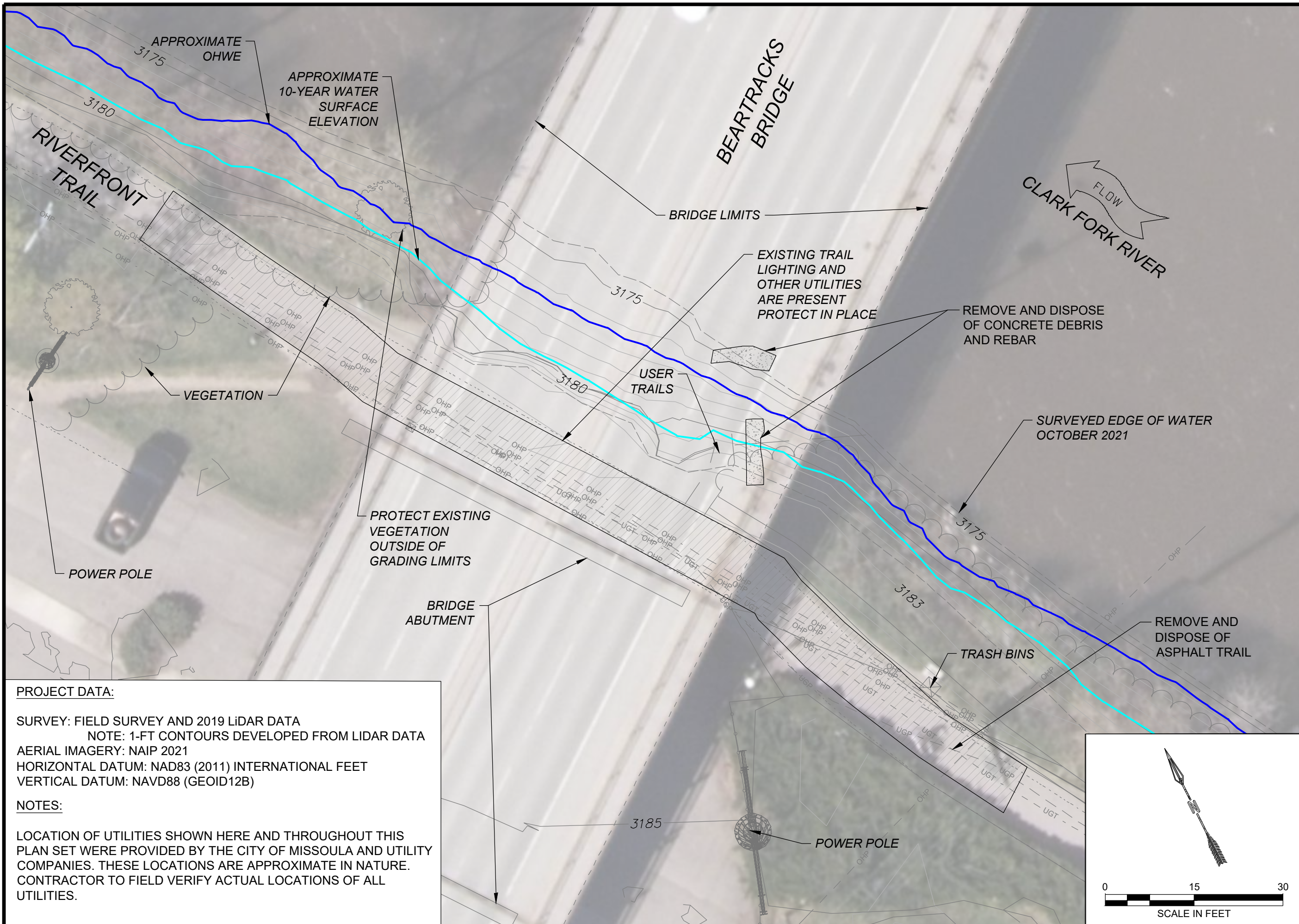
CITY OF MISSOULA
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DEPARTMENT
600 CREGG LANE
MISSOULA, MT 59801

CLARK FORK RIVER
RESTORATION AND
ACCESS -
BEARTRACKS BRIDGE

SHEET INDEX AND
CONSTRUCTION
QUANTITIES

SHEET NUMBER:
G-02
SHEET

NAME: N:\PROJECTS\W0020 21001 - CFR RESTORATION & ACCESS\CAD\SHEETS\ACCESS DESIGN\BEARTRACKS SHEET SET\CFR R&A_BEARTRACKS_S_ EXISTING CONDITIONS & REMOVALS.DWG
PLOT DATE: May 15, 2024 10:04 AM, BY: SANDRA (SANDY) KOHL



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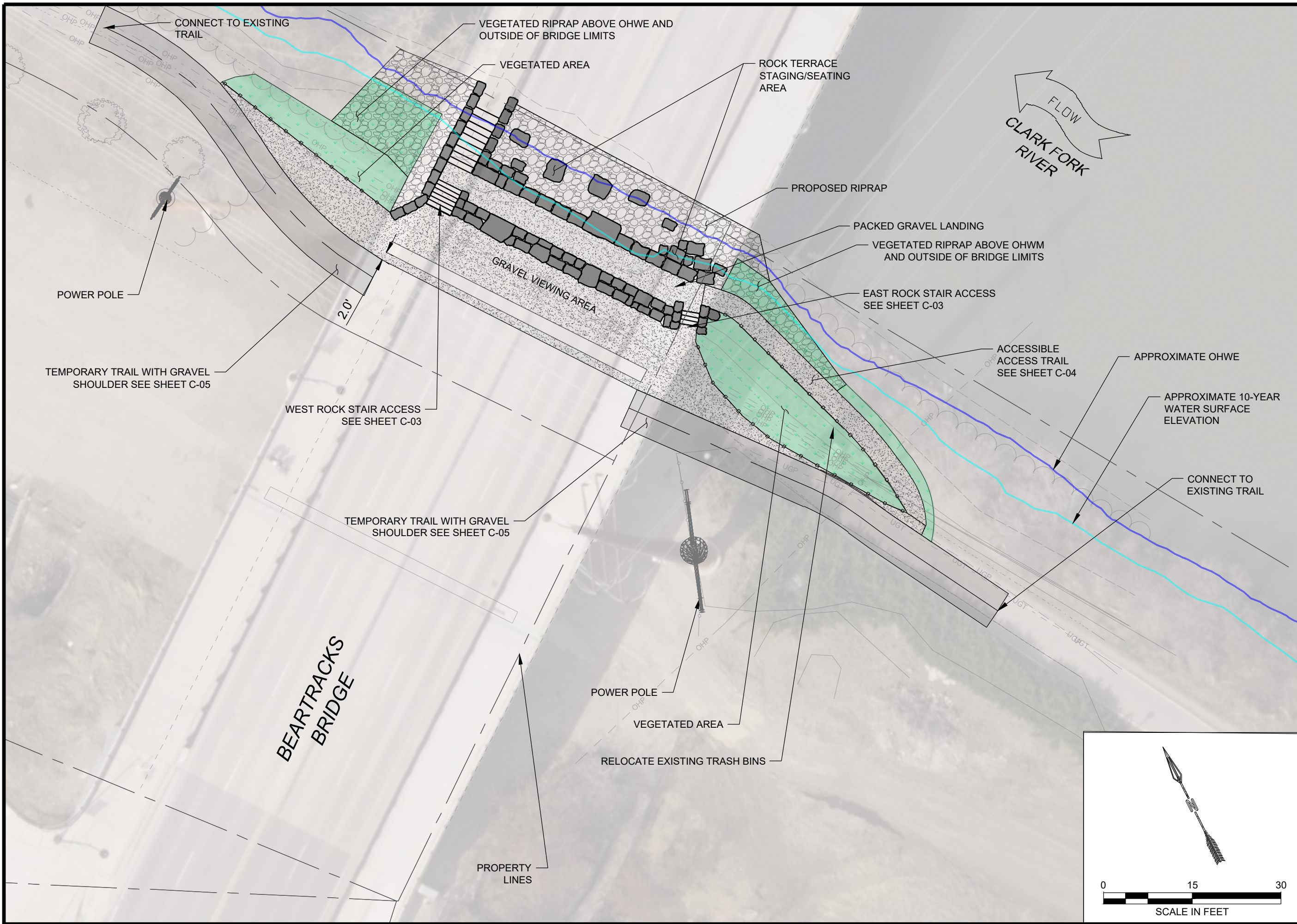
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NOTE: 1-FT CONTOURS DEVELOPED FROM LIDAR DATA
AERIAL IMAGERY: NAIP 2021
HORIZONTAL DATUM: NAD83 (2011) INTERNATIONAL FEET
VERTICAL DATUM: NAVD88 (GEOID12B)

NOTES:

LOCATION OF UTILITIES SHOWN HERE AND THROUGHOUT THIS PLAN SET WERE PROVIDED BY THE CITY OF MISSOULA AND UTILITY COMPANIES. THESE LOCATIONS ARE APPROXIMATE IN NATURE. CONTRACTOR TO FIELD VERIFY ACTUAL LOCATIONS OF ALL UTILITIES.

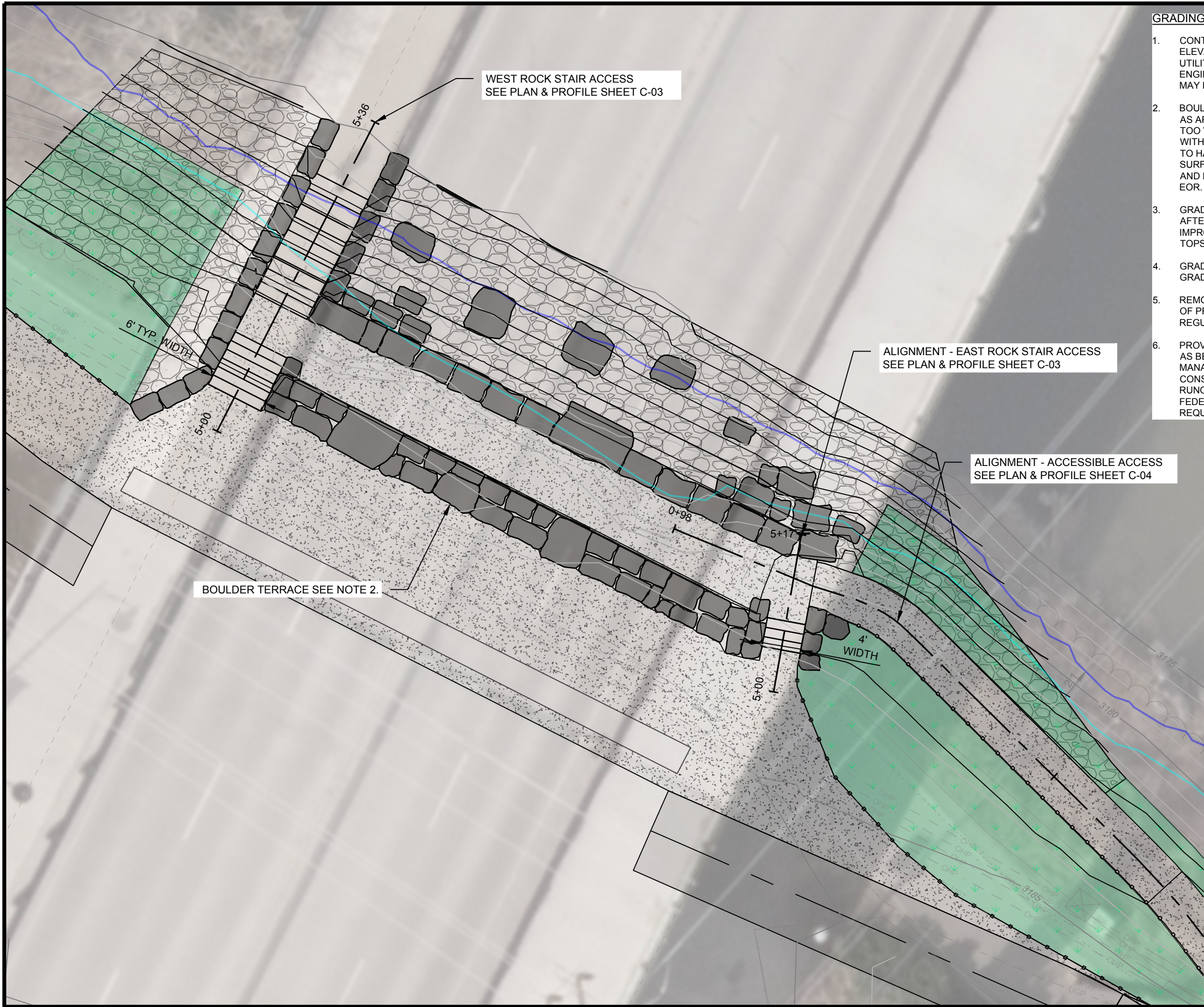
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RESPEC		RESPEC		RESPEC		RESPEC		RESPEC	
WATER & NATURAL RESOURCES		3810 VALLEY COMMONS DR SUITE 4		BOZEMAN, MT 59718		WWW.RESPEC.COM PHONE (409) 284-2525			
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						MISSOULA, MT 59801			
						CLARK FORK RIVER		RESTORATION AND	
						ACCESS -		BEARTRACKS BRIDGE	
						EXISTING CONDITIONS		& REMOVALS	
						SHEET NUMBER:		EX-01	
						SHEET			

NAME: N:\PROJECTS\W020 21001 - CFR RESTORATION & ACCESS\CAD\SHEETS\ACCESS DESIGN\BEARTRACKS SHEET SET\CFR R&A_BEARTRACKS_S_SITE PLAN.DWG
PLOT DATE: May 15, 2024 10:04 AM, BY: SANDRA (SANDY) KOHL



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CLARK FORK RIVER RESTORATION AND ACCESS - BEARTRACKS BRIDGE	
SITE PLAN	
SHEET NUMBER: C-01 SHEET	

NAME: N:\PROJECTS\W0020_21001 - CFR RESTORATION & ACCESS\CAD\SHEETS\ACCESS DESIGN\BEARTRACKS SHEET SET\CFR R&A BEARTRACKS_S_GRADING PLAN_SK.DWG
PLOT DATE: May 22, 2024 2:12 PM, BY: TAYLOR WINKEL



GRADING NOTES

1. CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING DRY AND WET UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY ISSUES. UTILITY RELOCATION MAY BE REQUIRED.
2. BOULDER ELEVATIONS AND SIZES ARE SHOWN AS APPROXIMATE. TOP OF BOULDER ELEVATIONS TOO VARY $\pm 4"$ FROM ADJACENT BOULDERS WITHIN THE SAME HORIZONTAL ROW. BOULDERS TO HAVE NATURAL (NOT PERFECTLY FLAT) SURFACE AND WILL VARY IN SIZE. ELEVATION AND PLACEMENTS WILL BE DIRECTED BY CITY OR EOR.
3. GRADES SHOWN ARE FINAL SURFACE GRADES AFTER COMPLETION OF SURFACE IMPROVEMENTS AND PLACEMENT OF RIPRAP AND TOPSOIL.
4. GRADE AREAS AT SITE PERIMETER TO MATCH GRADES OF ADJACENT PARCELS.
5. REMOVE EXCESS SOIL FROM SITE AND DISPOSE OF PROPERLY IN ACCORDANCE WITH APPLICABLE REGULATIONS.
6. PROVIDE TEMPORARY GRADING FEATURES SUCH AS BERMS, SWALES, SUMPS AND BASINS TO MANAGE INTERIM STORM WATER RUNOFF DURING CONSTRUCTION PROCESS. STORM WATER RUNOFF LEAVING THE SITE SHALL MEET ALL FEDERAL, STATE AND LOCAL QUALITY REQUIREMENTS.

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RESPEC				RESPEC				RESPEC				RESPEC			
WATER & NATURAL RESOURCES				WATER & NATURAL RESOURCES				WATER & NATURAL RESOURCES				WATER & NATURAL RESOURCES			
3810 VALLEY COMMONS DRIVE SUITE 4				3810 VALLEY COMMONS DRIVE SUITE 4				3810 VALLEY COMMONS DRIVE SUITE 4				3810 VALLEY COMMONS DRIVE SUITE 4			
BOZEMAN, MT 59718				BOZEMAN, MT 59718				BOZEMAN, MT 59718				BOZEMAN, MT 59718			
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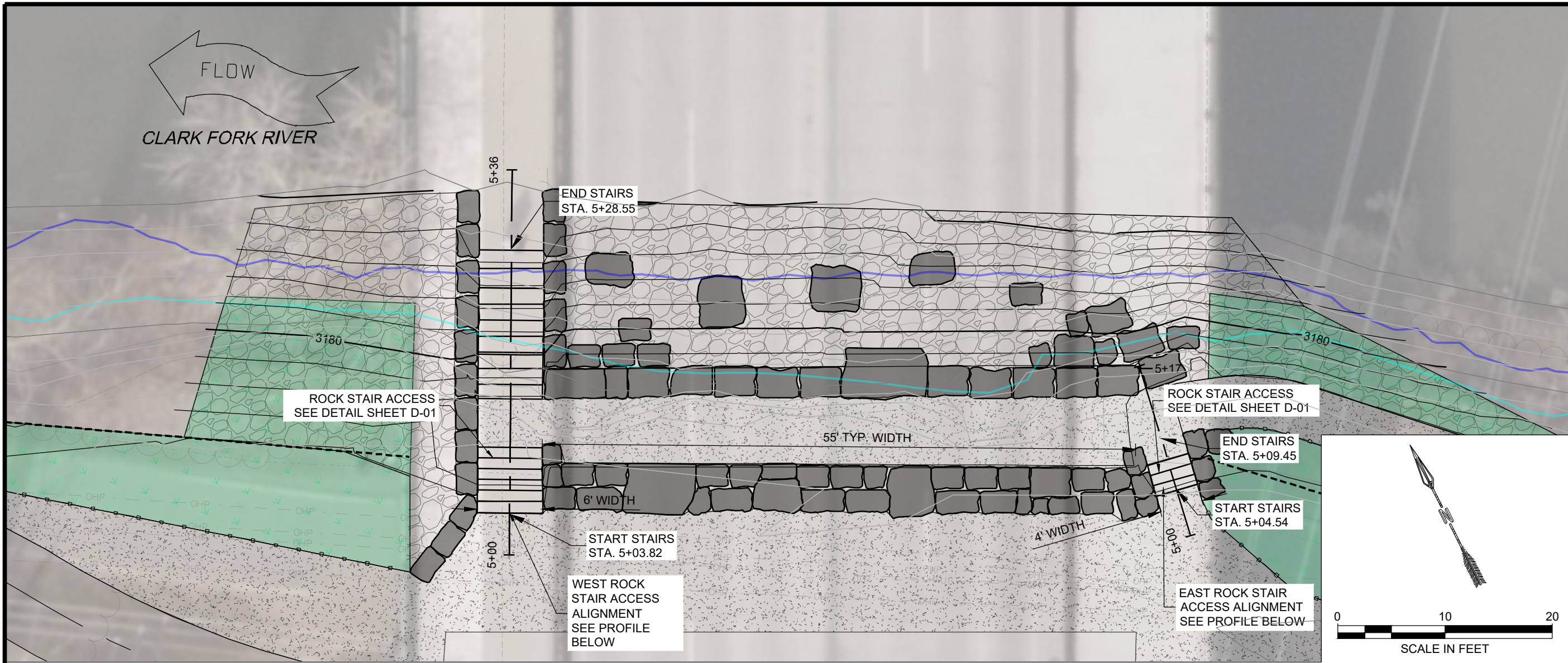
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CLARK FORK RIVER
RESTORATION AND
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BEARTRACKS BRIDGE

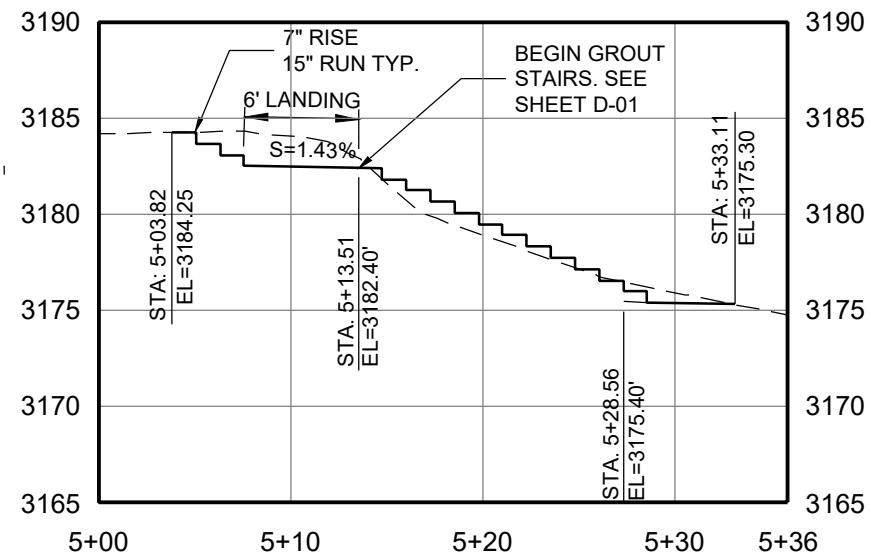
GRADING PLAN

SHEET NUMBER:
C-02
SHEET

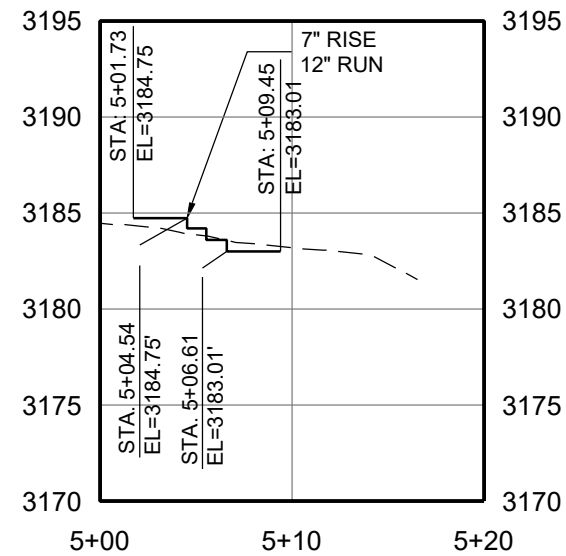
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PLOT DATE: May 15, 2024 10:06 AM, BY: SANDRA (SANDY) KOHL



PROFILE VIEW -WEST ROCK STAIR ACCESS
HORIZ. SCALE: 1" = 10'
VERT. SCALE: 1"= 10'



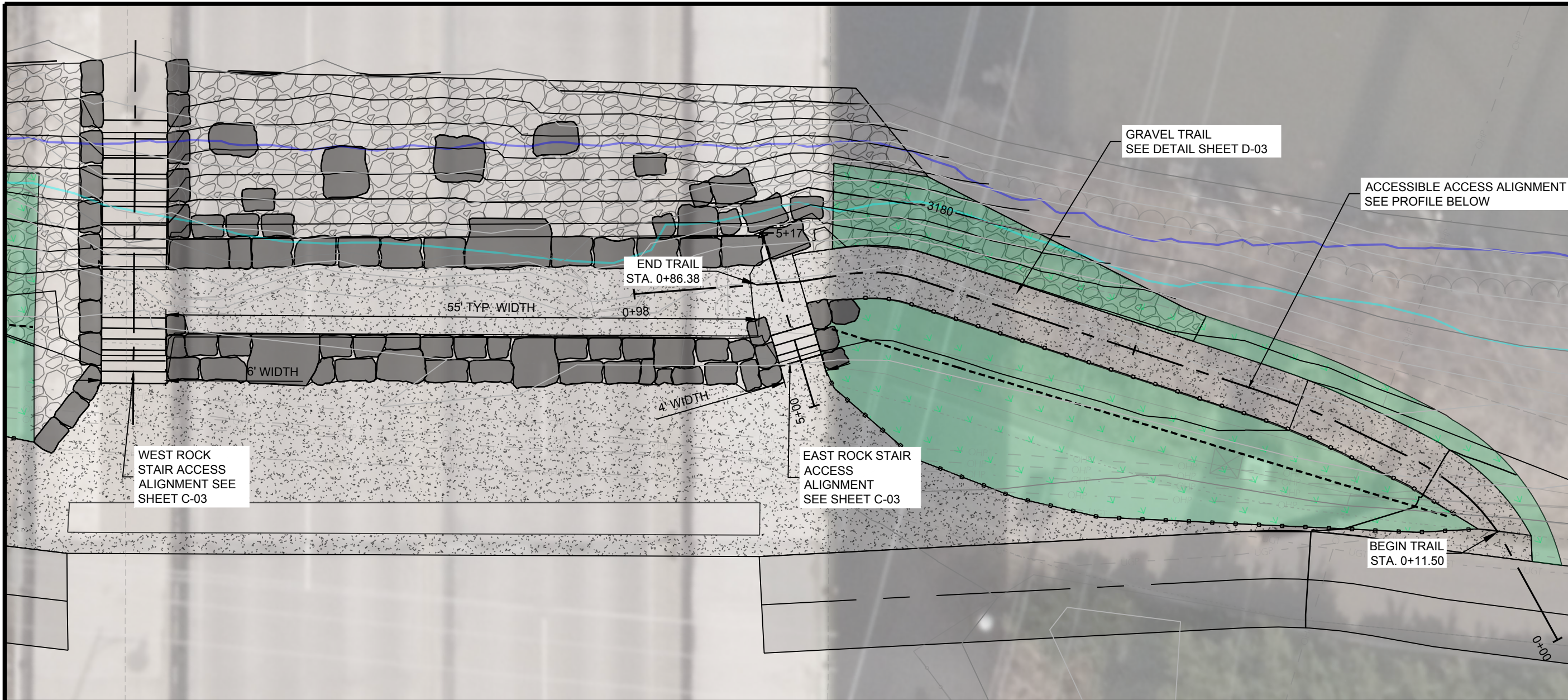
PROFILE VIEW -EAST ROCK STAIR ACCESS
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VERT. SCALE: 1"= 10'



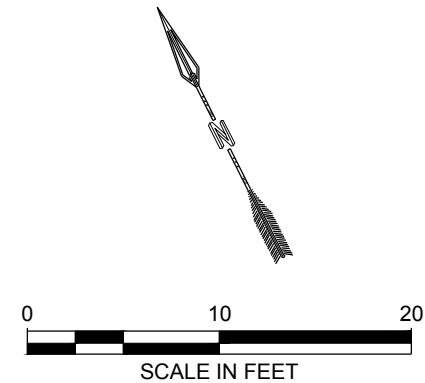
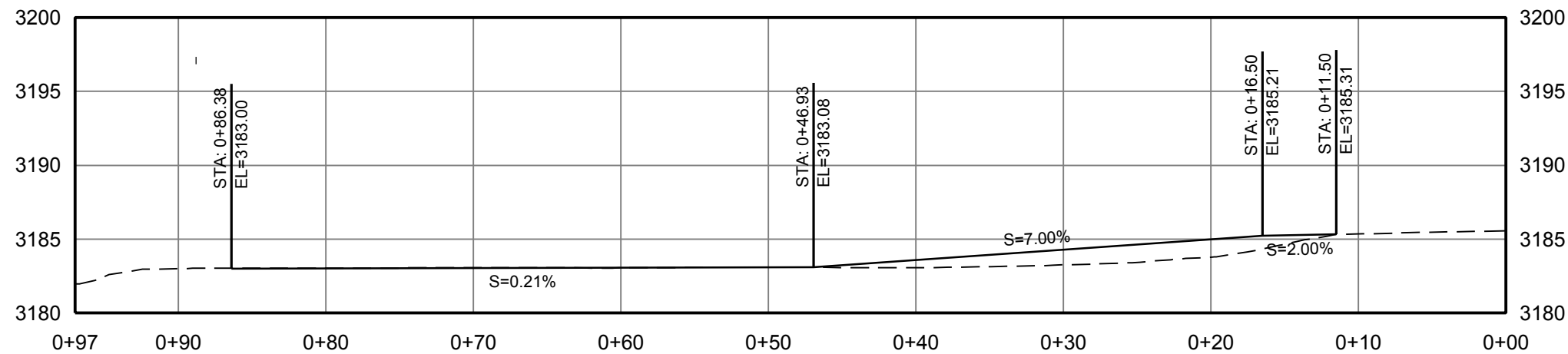
PROPOSED GROUND
EXISTING GROUND

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ACCESS PLAN & PROFILE				
SHEET NUMBER: C-03				
SHEET				

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PLOT DATE: May 22, 2024 2:08 PM, BY: TAYLOR WINKEL



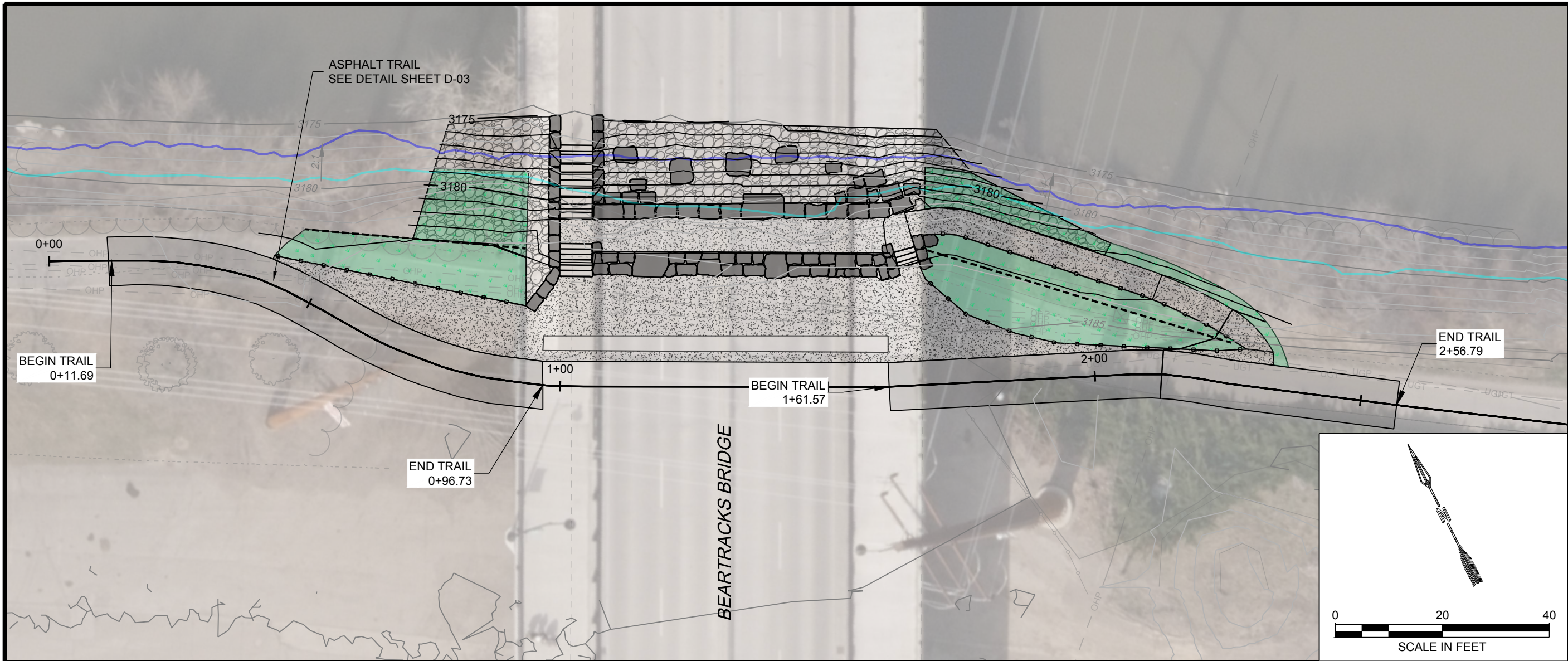
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HORIZ. SCALE: 1" = 10'
VERT. SCALE: 1" = 10"



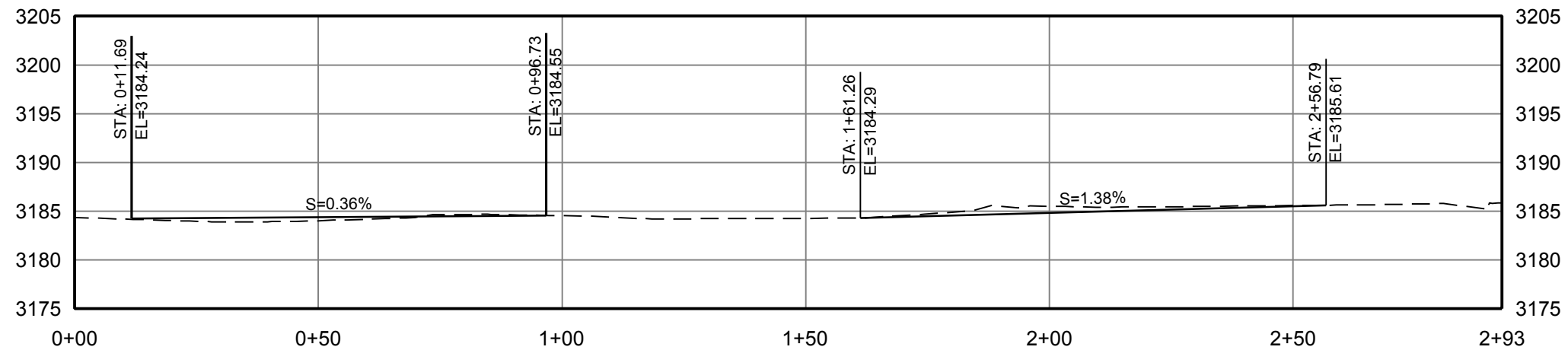
PROPOSED GROUND ———
EXISTING GROUND - - - - -

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ACCESS PLAN & PROFILE				
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PLOT DATE: May 22, 2024 2:10 PM, BY: TAYLOR WINKEL



PROFILE VIEW-TRAIL REALIGNMENT
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 10'



PROPOSED GROUND
EXISTING GROUND

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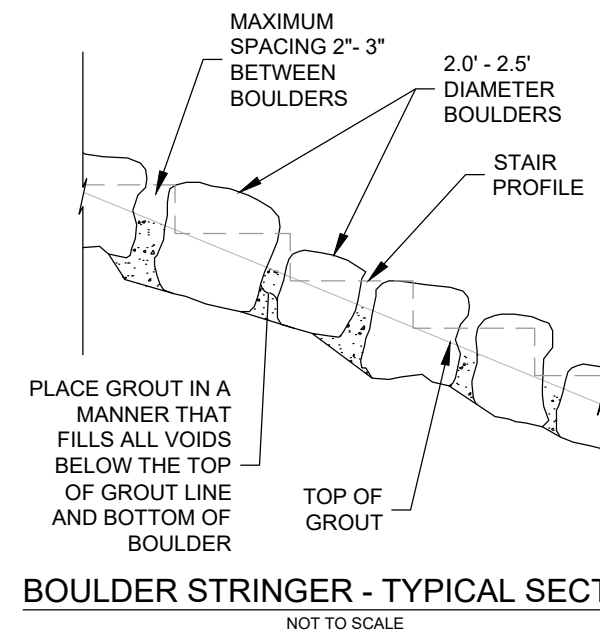
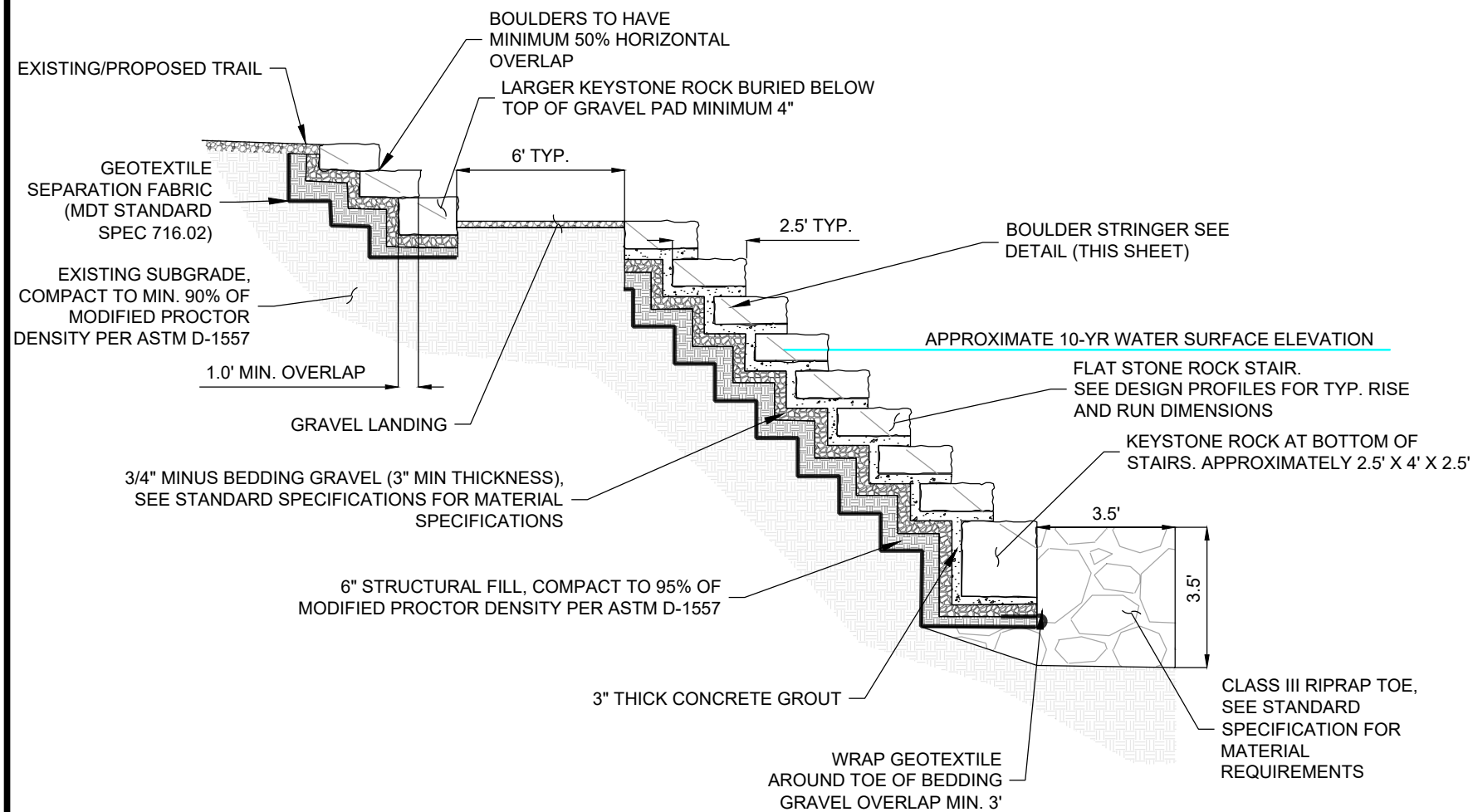
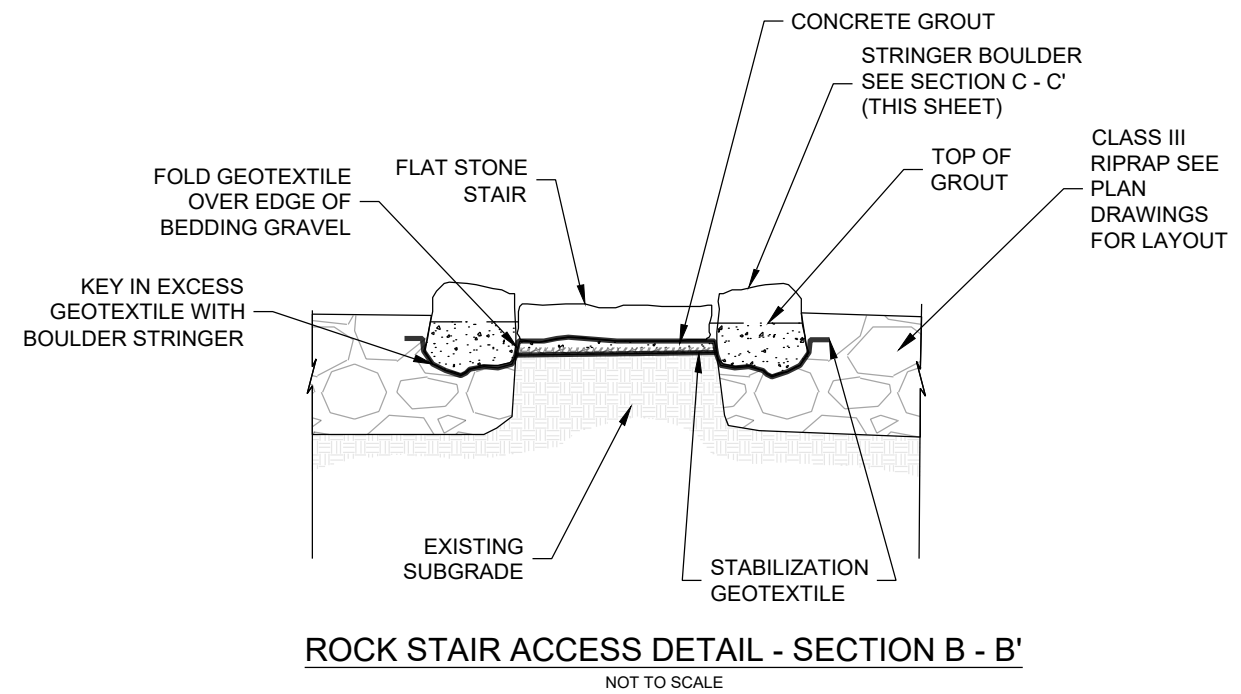
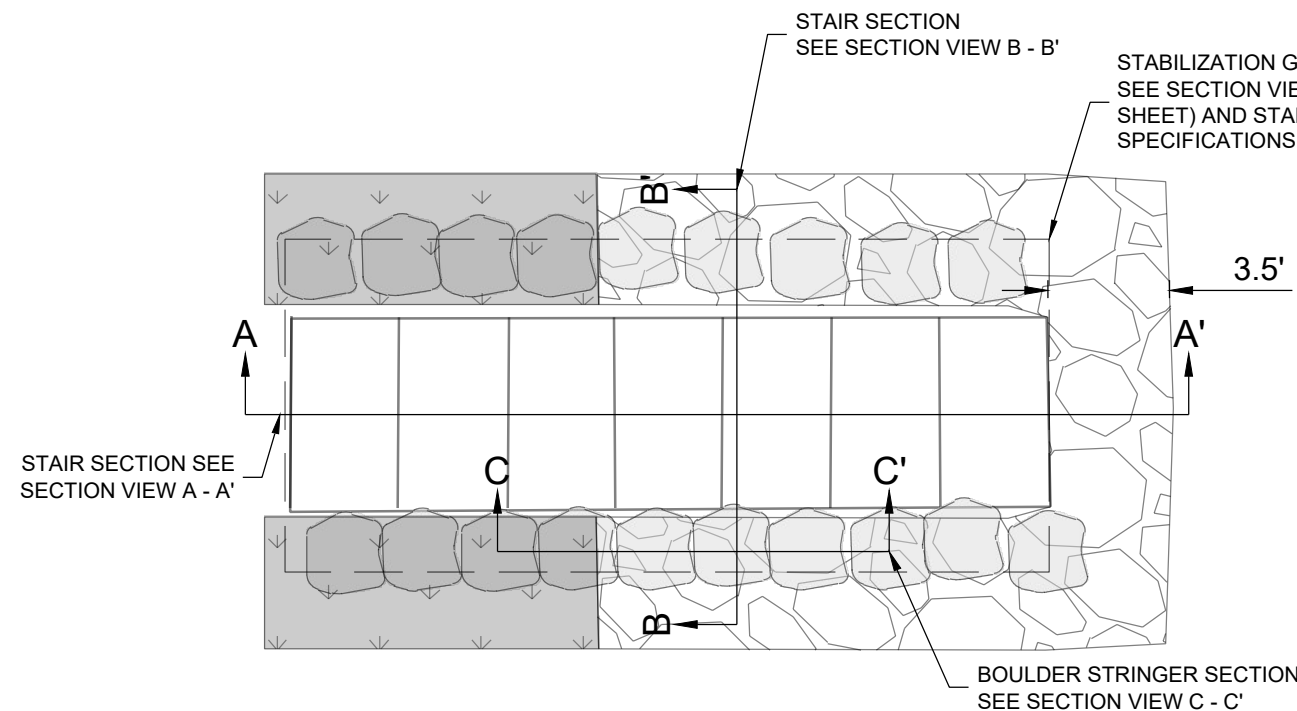
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CLARK FORK RIVER
RESTORATION AND
ACCESS -
BEARTRACKS BRIDGE

TRAIL REALIGNMENT
PLAN & PROFILE

SHEET NUMBER:
C-05
SHEET

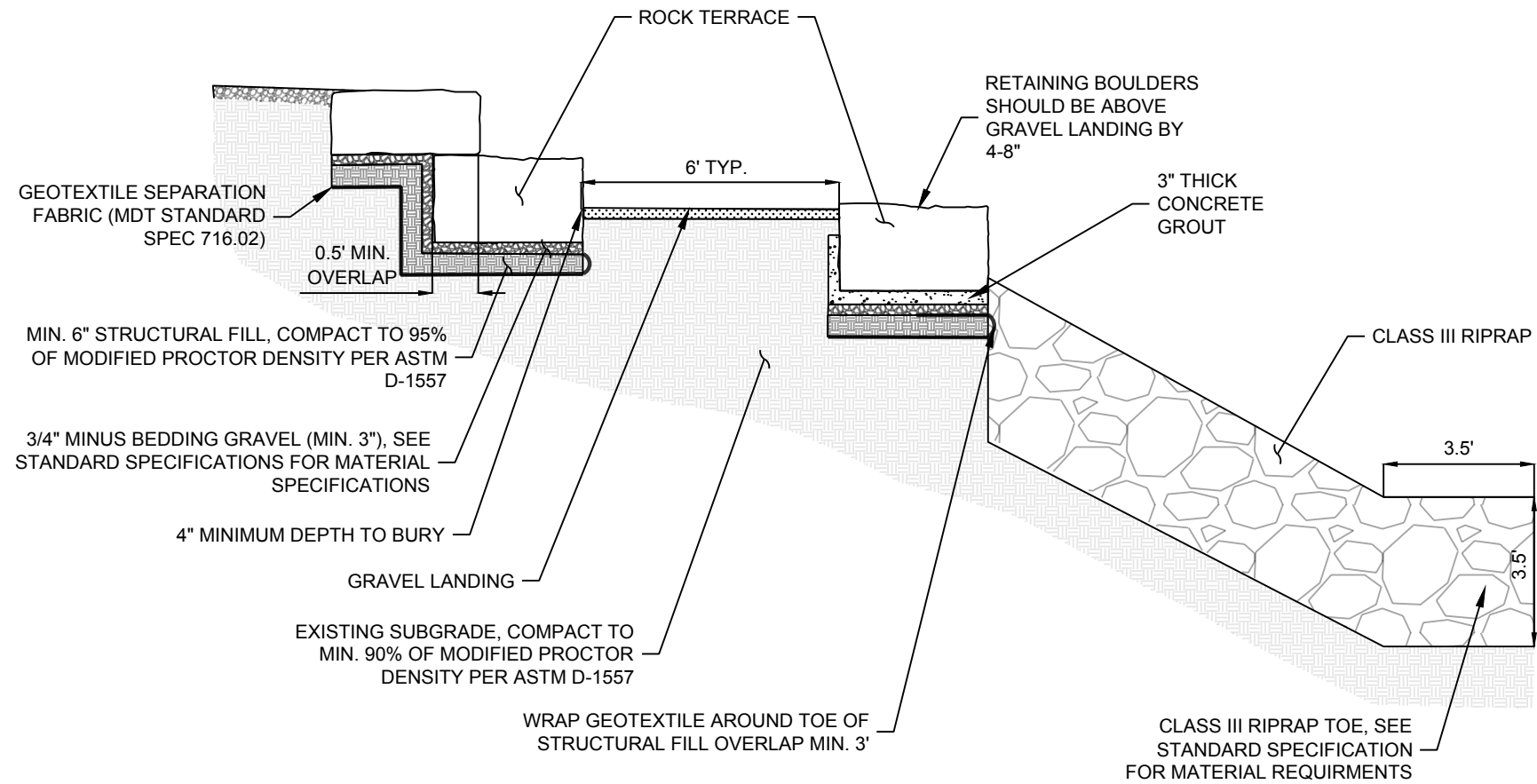
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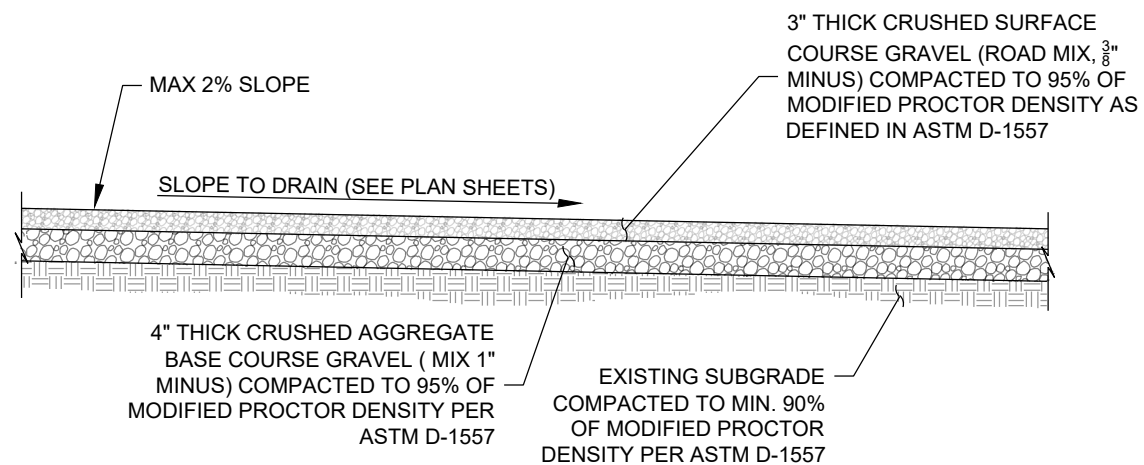
- ## NOTES

1. STONE DIMENSIONS ARE SUBJECT TO SUPPLIER AVAILABILITY. CONTRACTOR WILL COORDINATE WITH ENGINEER OR PARKS PROJECT MANAGER ON STONE SELECTION AND PLACEMENT IN ACCORDANCE WITH PROPOSED ROCK SPECIFICATIONS.
2. SURFACES ADJACENT TO THE "BOULDER STRINGER" WILL BE GRADED TO CREATE A SMOOTH TRANSITION UPSTREAM AND DOWNSTREAM OF STAIR ACCESSSES.
3. PRIOR TO PLACEMENT OF FILL AND/OR GRAVEL SECTION MATERIALS, THE EXPOSED SUBGRADE SOILS WILL BE COMPACTED TO VERIFY THAT STABLE SUBGRADE CONDITIONS EXIST. ANY LOOSE, SOFT, DISTURBED, OR OTHERWISE UNSUITABLE MATERIALS WILL BE OVEREXCAVATED AND REPLACED WITH STRUCTURAL FILL.
4. CONCRETE GROUT TO MEET MDT STANDARD SPEC 713.04.

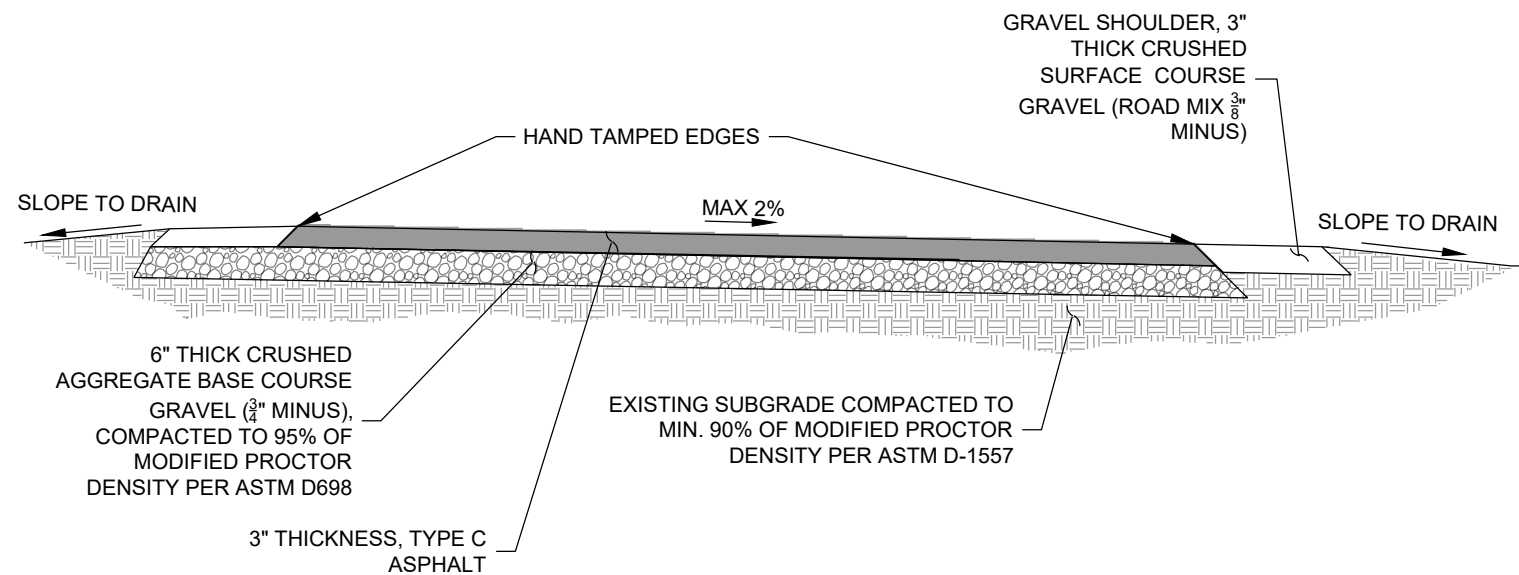
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PLOT DATE: May 15, 2024 10:07 AM, BY: SANDRA (SANDY) KOHL



ROCK TERRACE - TYPICAL SECTION
NOT TO SCALE



GRAVEL LANDING AREA - TYPICAL SECTION
NOT TO SCALE



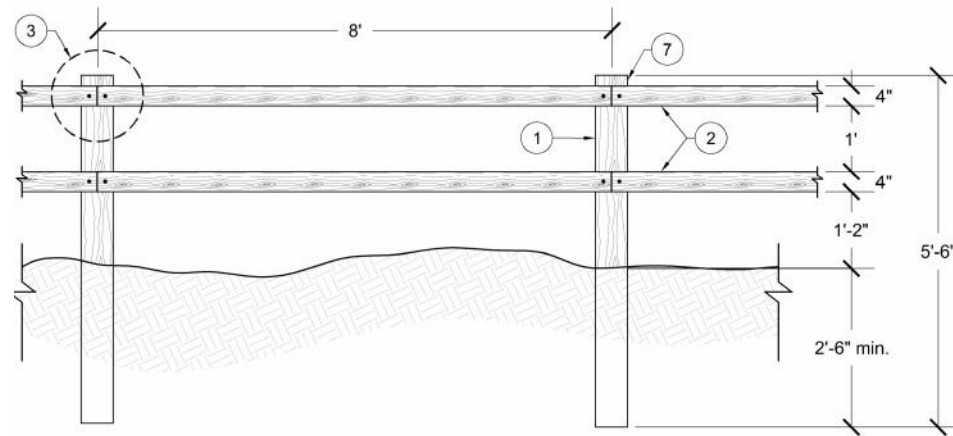
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NOTES

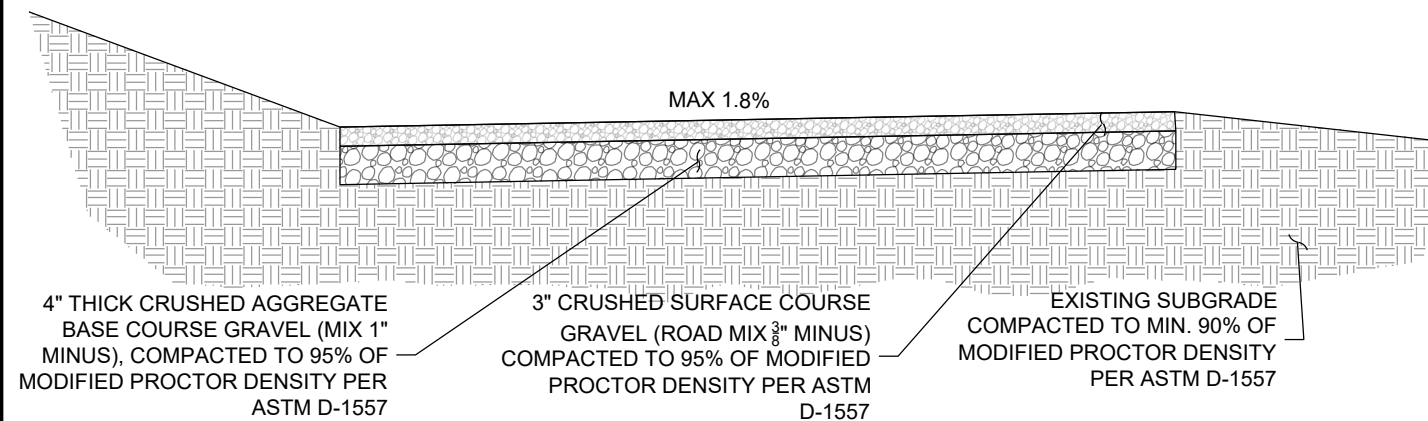
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WATER & NATURAL RESOURCES				WATER & NATURAL RESOURCES				WATER & NATURAL RESOURCES				WATER & NATURAL RESOURCES							
3810 VALLEY COMMONS DR SUITE 4				3810 VALLEY COMMONS DR SUITE 4				3810 VALLEY COMMONS DR SUITE 4				3810 VALLEY COMMONS DR SUITE 4							
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FAX: (408) 284-9526				FAX: (408) 284-9526				FAX: (408) 284-9526				FAX: (408) 284-9526							
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CITY OF MISSOULA				CITY OF MISSOULA				CITY OF MISSOULA				CITY OF MISSOULA							
PARKS AND RECREATION				PARKS AND RECREATION				PARKS AND RECREATION				PARKS AND RECREATION							
DEPARTMENT				DEPARTMENT				DEPARTMENT				DEPARTMENT							
600 CREGG LANE				600 CREGG LANE				600 CREGG LANE				600 CREGG LANE							
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ACCESS -				ACCESS -				ACCESS -				ACCESS -							
BEARTRACKS BRIDGE				BEARTRACKS BRIDGE				BEARTRACKS BRIDGE				BEARTRACKS BRIDGE							
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SHEET				SHEET				SHEET				SHEET							

-
- BEVEL DETAIL**

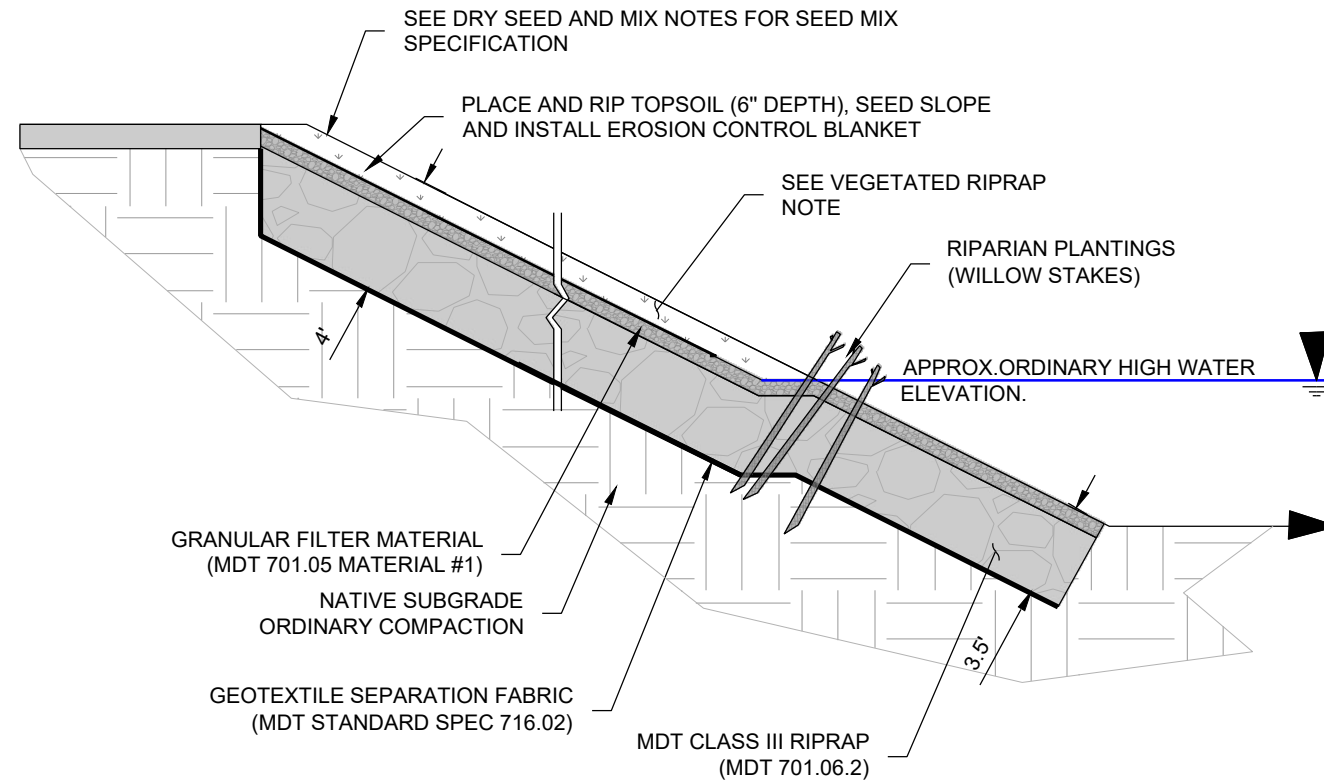


***WOODEN FENCE DETAIL - SECTION VIEW**
NOT TO SCALE



GRAVEL TRAIL DETAIL - SECTION VIEW

NOT TO SCALE



RIPRAP REVEGETATION DETAIL - SECTION VIEW

NOT TO SCALE

VEGETATED RIPRAP NOTE:

1. RIPRAP REVEGETATION: THIS WORK IS THE CONSTRUCTION REQUIREMENTS FOR REVEGETATION MATERIAL ON RIPRAP SURFACES ABOVE ORDINARY HIGH WATER MARK ELEVATION. CONSTRUCTION REQUIREMENTS ARE TO FILL THE SPACES AND VOIDS BETWEEN THE ROCKS WITH GRANULAR FILTER MATERIAL AND TOPSOIL FOLLOWING PLACEMENT OF RIPRAP, OR AT INTERVALS APPROPRIATE FOR THE SIZE AND CONFIGURATION OF THE INSTALLATION. ACCEPTABLE TOPSOIL INCLUDES LOCALLY OBTAINED TOPSOIL WITH LESS THAN 30% COARSE FRAGMENTS (>0.2 INCH) BY WEIGHT. CONTRACTOR TO PLACE A SUFFICIENT AMOUNT OF GRANULAR FILTER MATERIAL OVER THE RIPRAP, SO THAT AFTER SETTLING, THE LEVEL OF GRANULAR FILTER MATERIAL COMES TO THE VERY TOP OF THE ROCK. PLACE THE TOPSOIL TO A 4 TO 6-INCH DEPTH OVER THE GRANULAR FILTER MATERIAL. PLACE MATERIAL IN A MANNER THAT CREATES A SMOOTH, UNIFORM SURFACE FOR SEEDING AND PLACEMENT OF THE EROSION CONTROL BLANKET/MULCH. CONTRACTOR TO HAND BROADCAST SEED THE SOIL IMMEDIATELY AFTER PLACEMENT, REGARDLESS OF TIME OF YEAR, WITH THE SEED MIXTURE AND RATES SPECIFIED BY THE ENGINEER. SCARIFY THE SOIL IMMEDIATELY PRIOR TO AND FOLLOWING SEEDING TO INCORPORATE SEED TO A DEPTH OF ½ INCH INTO THE SOIL.

DRYLAND SEED MIX NOTES

1. ALL AREAS DISTURBED WITHIN CONSTRUCTION LIMITS, WHERE NOT SPECIFIED TO BE ANOTHER MATERIAL PER PLAN, SHALL BE RE-ESTABLISHED WITH DRYLAND SEED MIX, AS SPECIFIED.
2. PROVIDE DOCUMENTATION OF SEED ORIGIN AND PURITY TO CITY OR LANDSCAPE ARCHITECT PRIOR TO SEEDING.
3. SOW SEED MIXES ON DISTURBED AREAS AFTER ALL GRADING ACTIVITIES HAVE BEEN COMPLETED.
4. PREPARE SEED BED PRIOR TO SEEDING PER PLANS.
5. ACCEPTABLE SEEDING DATES ARE APRIL 15 - JUNE 20 IN THE SPRING, OR SEPTEMBER 20 - OCTOBER 20 IN THE FALL. WRITTEN PERMISSION MUST BE GRANTED BY THE LANDSCAPE ARCHITECT TO PERFORM SEEDING OPERATIONS ON ANY OTHER DATES OF THE YEAR.
6. USE BROADCAST SEEDING METHOD, RAKE SEED THOROUGHLY INTO TOP ½" OF SEED BED WITH HARD RAKE. SEED MUST BE APPLIED AT THE SPECIFIED RATE.
7. DRYLAND GRASS MIX AND WILDFLOWER MIX TO BE SEED AT SPECIFIED RATES ACROSS ALL DISTURBED AREAS PER PLANS.
8. SEED ESTABLISHMENT PERIOD COMMENCES UPON FINAL ACCEPTANCE AND SHALL CONSIST OF THE FIRST GROWING SEASON, OR UNTIL A HEALTHY, WELL-ROOTED, VIABLE MEADOW HAS BEEN ESTABLISHED, FREE OF NOXIOUS WEEDS, AND BARE AREAS. CONTRACTOR TO REQUEST A FINAL INSPECTION BY LANDSCAPE ARCHITECT TO DETERMINE THE END OF THE SEED ESTABLISHMENT PERIOD.
9. MONITOR THE SITE DURING THIS PERIOD TO DETECT AREAS OF WEED COLONIZATION. TREAT ALL NOXIOUS WEEDS (AS CURRENTLY DEFINED BY DEPARTMENT OF AGRICULTURE) WITH HERBICIDE OR MANUAL REMOVAL AS SOON AS DETECTED.
10. AFTER INITIAL GERMINATION PREPARE AND RE-SEED ANY BARE SPOTS GREATER THAN 2 SQUARE FEET.
11. IF AREAS OF BARE GROUND PERSIST AFTER FIRST GROWING SEASON, RESEED PER PLAN.