

CIRCLE PARK, 3RD ST, AND 10TH ST ENHANCEMENT AND RIVER BANK STABILIZATION

100% DESIGN PLANS

20 5TH STREET MEEKER, COLORADO

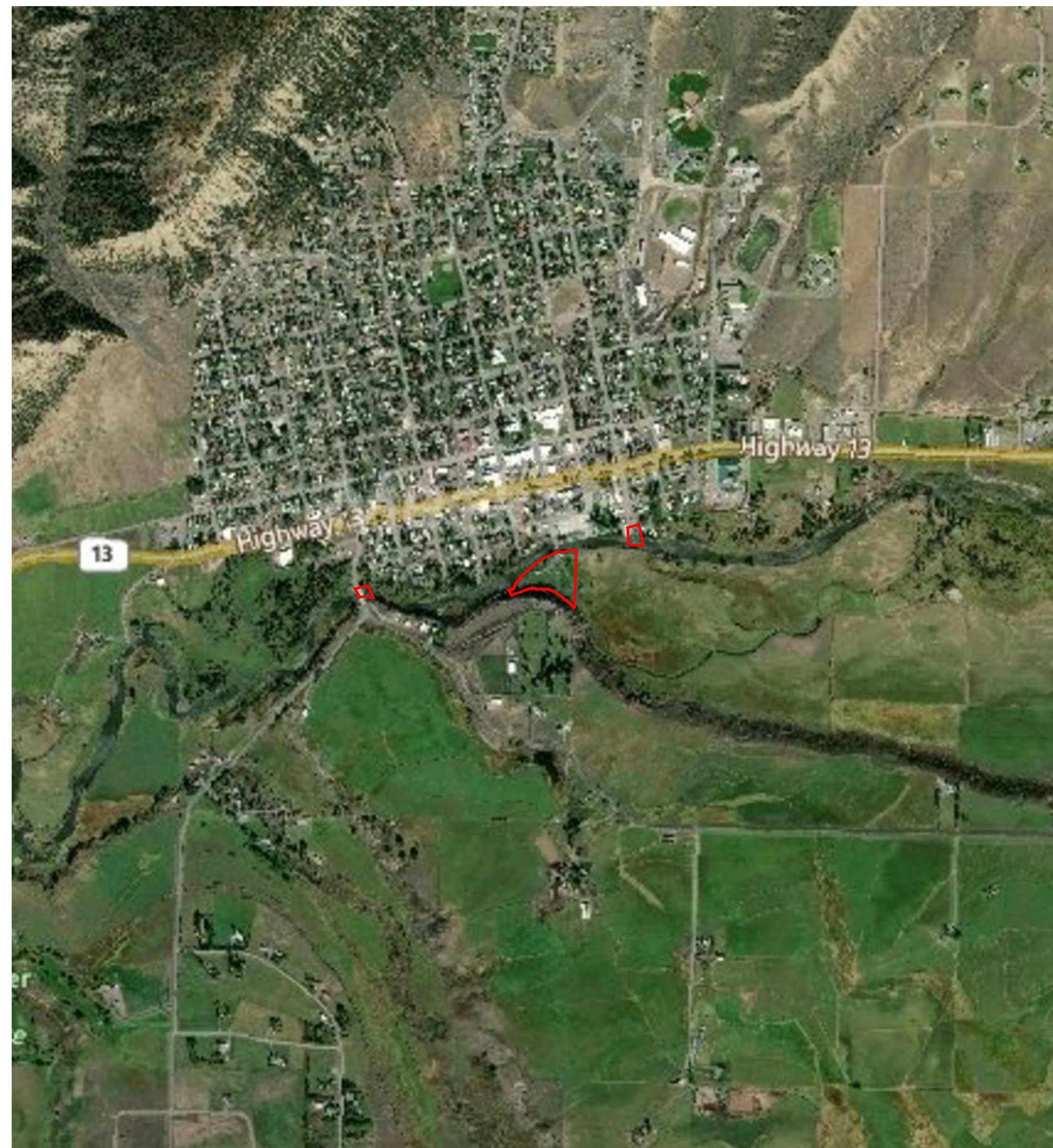
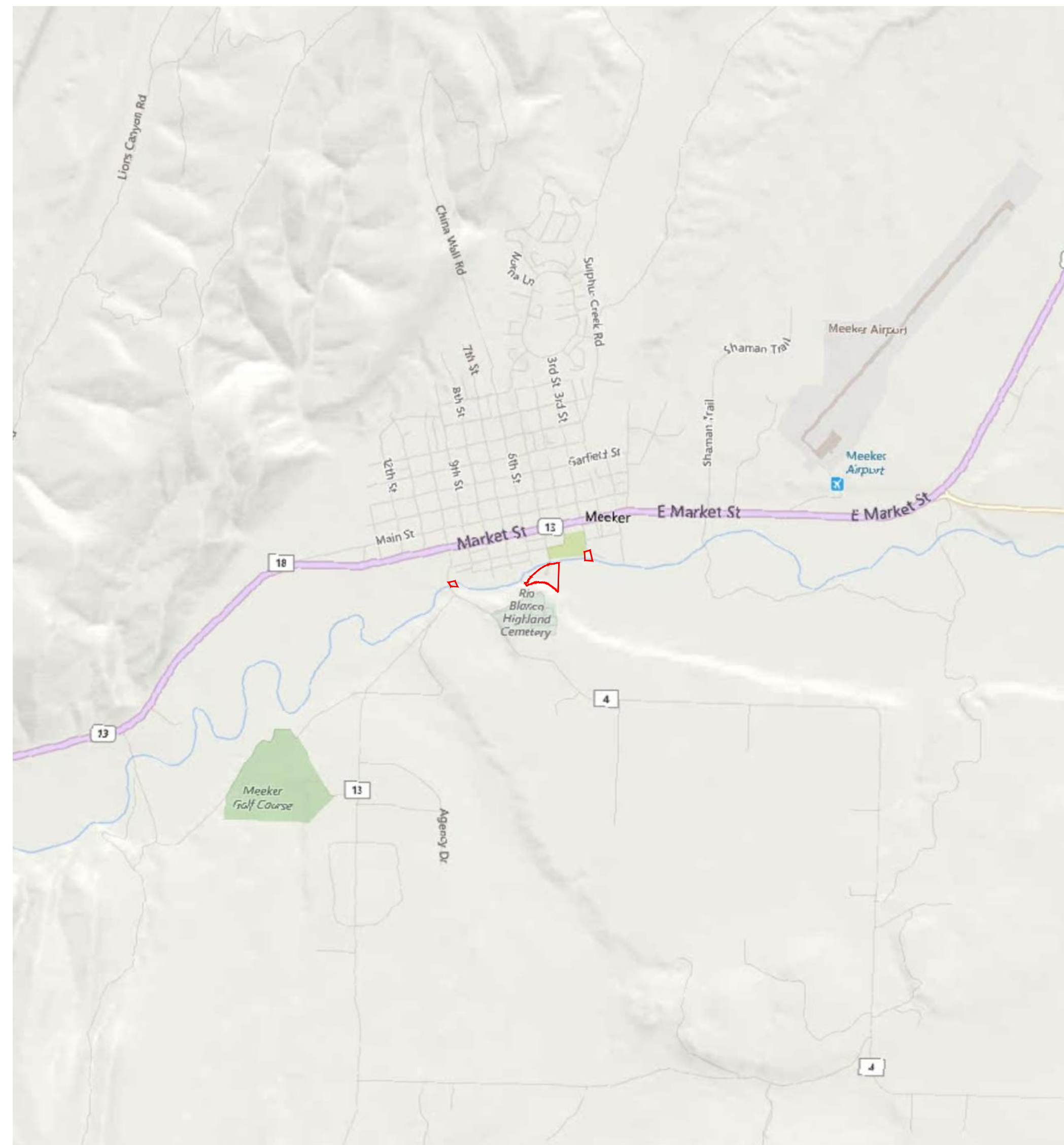
TOWN OF MEEKER, COLORADO
MAY 26, 2023

Prepared by:
SWCA
ENVIRONMENTAL CONSULTANTS
SWCA Environmental Consultants
1063 W Horsetooth Rd
Building B, Suite 200
Fort Collins, CO 80526
(970) 237-4096
www.swca.com

Prepared for:

RECREATION & PARK DISTRICT
Meeker, Colorado
101 UTE ROAD
MEEKER, CO 81641

LEGEND



SHEET INDEX	
SHEET NUMBER	SHEET TITLE
1.0	COVER
1.1	QUANTITIES
2.0	EXISTING CONDITIONS SURVEY
3.0	CIRCLE PARK DEMOLITION PLAN
4.0	CIRCLE PARK EROSION CONTROL AND GRADING PLAN
4.1	ACCESSRAMP
4.2	CIRCLE PARK SWALE PLAN & PROFILE
5.0	CIRCLE PARK LANDSCAPE PLAN
5.1	CIRCLE PARK PLANTING BED DESIGN PLAN
6.0	CIRCLE PARK LIGHTING PLAN
7.0	CIRCLE PARK IRRIGATION PLAN
8.0	3RD STREET GRADING PLAN
9.0	3RD STREET LANDSCAPE PLAN
10.0	10TH STREET GRADING PLAN
11.0	10TH STREET LANDSCAPE PLAN
12.0	EROSION CONTROL DETAILS
12.1	SOIL LIFT
12.2	VEGETATED RIPRAP
12.3	LANDSCAPE BASIN
12.4	LANDSCAPE NOTES
12.5	RIVER ACCESS AND SLOPE DETAILS
12.6	PATH AND SURFACE DETAILS
12.7	LIGHTING DETAILS
12.8	IRRIGATION NOTES
12.9	IRRIGATION DETAILS

Stamp:

Project Title:
**WHITE RIVER
RIVERFRONT
ENHANCEMENTS**
20 5TH STREET
MEEKER, CO

Sheet Title:
COVER

Date: 04/07/2023
Scale: As Shown
Drawn by: KLX
Checked by: MP
File #: 72070

REVISIONS		
Date:	By:	Note:

Sheet No:
1.0

1 LOCUS MAP/ USGS
ANSI D (22"x34") SCALE: 1"=2000'
TABLOID (11"x17") SCALE: 1"=4000'
LOCUS MAP SOURCE: MASSGIS DATA-USGS TOPOGRAPHIC QUADRANGLE IMAGES

2 ORTHO-PHOTOGRAPH
ANSI D (22"x34") SCALE: 1"=1000'
TABLOID (11"x17") SCALE: 1"=2000'
BASE MAP SOURCE: MICROSOFT DIGITALGLOBE ORTHO IMAGERY (2018)



A Portion of Outlot 9
14.06 Acres ±
 (Calculated to North Edge of White River)

LEGEND

- ⊕ FOUND MONUMENT AS DESCRIBED
- SET REBAR AND ALUM CAP PLS 36574
- BBQ GRILL
- ☆ LIGHT POLE
- ⊙ UTILITY POLE
- ⊕ WATER VALVE
- ⊕ IRRIGATION CONT. VALVE
- ⊕ SIGN (SINGLE POLE)
- OVERHEAD ELECTRIC LINE
- FENCELINE
- UNDERGROUND ELECTRIC LINE
- CONCRETE
- STONE
- RIVER / CREEK / DITCH
- ASPHALT PAVING
- PHASE 1 DESIGN AREA (BY OTHERS)

ANSI D (22"x34") SCALE: 1"=30'
 TABLOID (11"x17") SCALE: 1"=60'

 0 15 30 60

Stamp:

Project Title:
WHITE RIVER RIVERFRONT ENHANCEMENTS
 20 5TH STREET
 MEEKER, CO

Sheet Title:
EXISTING CONDITIONS SURVEY AND PHASE 1 OVERLAY PLAN

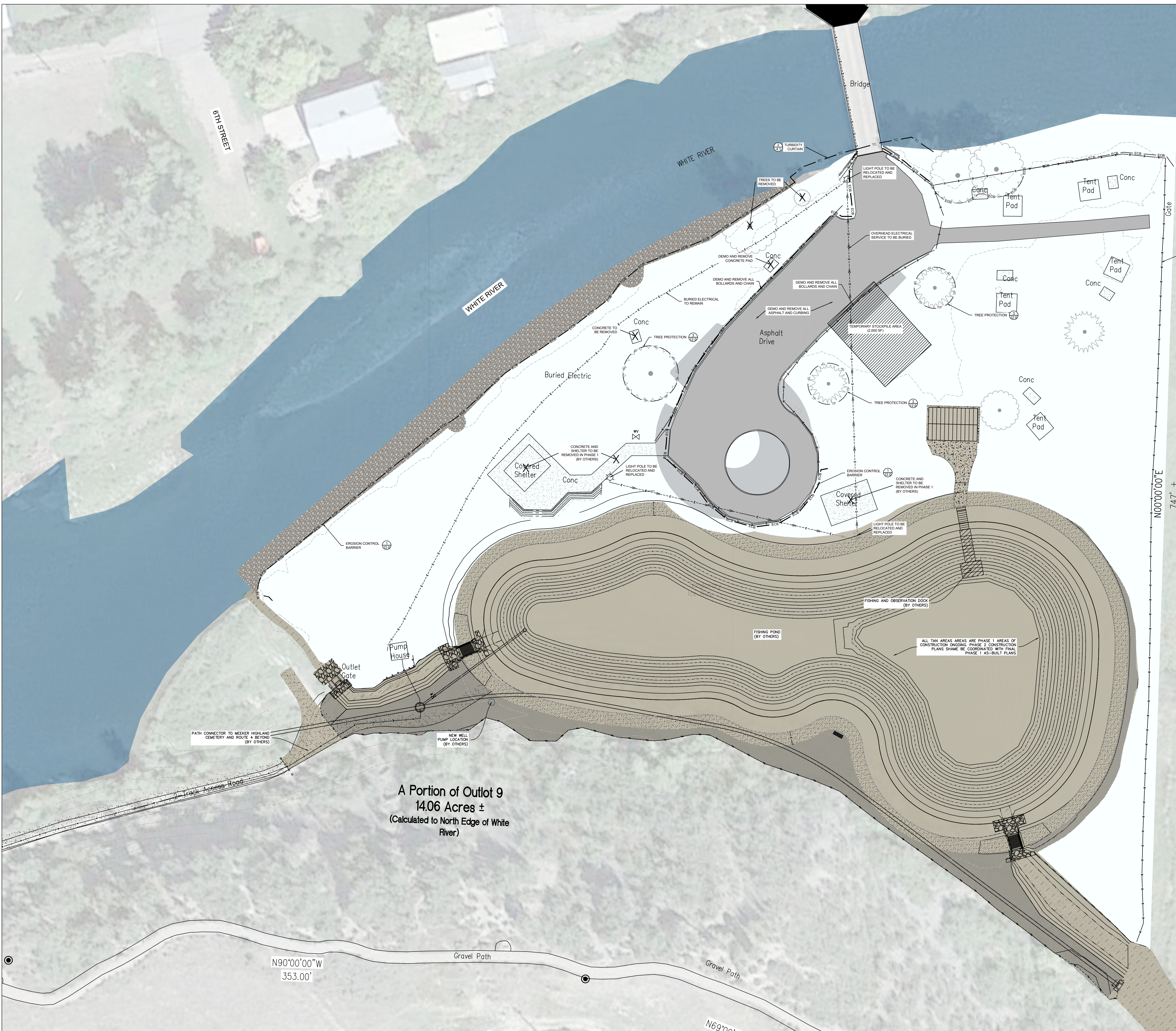
Date:	04/07/2023
Scale:	As Shown
Drawn by:	KLX
Checked by:	MP
File #	72070

REVISIONS		
Date:	By:	Note:

NOTES
 EXISTING CONDITIONS SURVEY DEVELOPED BY SGM PLAN DATED FEBRUARY 13, 2018.



Know what's below
Call before you dig.

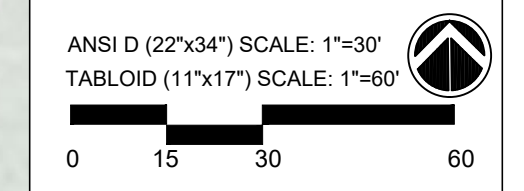


- DEMOLITION NOTES**
- PLAN INTENDED AS A GUIDELINE FOR DEMOLITION. LANDSCAPE ARCHITECT MAKES NO WARRANTY AS TO THE COMPLETENESS OR EXTENT OF ITEMS TO BE REMOVED. CONTRACTOR TO REFER TO ALL OTHER DRAWINGS TO VERIFY THOSE ELEMENTS TO BE REPLACED.
 - CONTRACTOR SHALL VERIFY PHASE 1 AS-BUILT CONDITIONS AND COORDINATE DEMOLITION PLAN ACCORDINGLY.
 - COORDINATE WITH OWNER ON ALL UNIDENTIFIED EXISTING ITEMS TO DETERMINE IF THEY SHOULD BE REMOVED, RELOCATED, OR PROTECTED IN PLACE.
 - CONTRACTOR RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL CLEAR AND GRUB AREAS DISTURBED BY GRADING, DEBRIS, VEGETATION, STUMPS, ROOTS, AND OTHER MATERIALS NOT SUITABLE FOR BACKFILL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.
 - CLEAR AND GRUB AREAS AS NECESSARY FOR IMPROVEMENT WORK INCLUDING BUT NOT LIMITED TO FLATWORK AND LANDSCAPE AREAS.
 - CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE DEMOLITION AREAS ON A DAILY BASIS.
 - PROVIDE TREE PROTECTION FENCE AROUND ALL EXISTING TREES TO REMAIN WITHIN THE AREA OF WORK, PER SPECIFICATIONS. REFER TO DETAIL 3 ON SHEET 41 FOR TREE PROTECTION DETAILS.
 - HAND DIG WITHIN DRIPLINE OF EXISTING TREES. SEE DETAIL 3 ON SHEET 41.
 - STOCKPILE ALL BOLLARDS ENCOUNTERED ON-SITE DURING DEMOLITION FOR POTENTIAL REUSE.
 - CONTRACTOR TO PROTECT AND MAINTAIN IRRIGATION LINES, PIPES, AND WIRES DURING CONSTRUCTION.
- EROSION CONTROL PLAN AND CONSTRUCTION SEQUENCING**
- EROSION AND SEDIMENT CONTROL METHODS FOR THE PROJECT INCLUDE STRUCTURAL AND STABILIZATION PRACTICES. STRUCTURAL PRACTICES INVOLVE THE CONSTRUCTION OF DEVICES TO DIVERT AND LIMIT RUNOFF. STABILIZATION PRACTICES WILL BE IMPLEMENTED TO COVER EXPOSED SOIL SO THAT DISCHARGE OF SEDIMENT IS MINIMIZED. AN ADEQUATE STOCKPILE OF EROSION CONTROL MATERIALS WILL BE MAINTAINED AT THE PROJECT SITE IN THE EVENT OF AN EMERGENCY OR ROUTINE REPAIR.
- TO FURTHER MINIMIZE SEDIMENT LOSS ON THE SITE, A GENERAL CONSTRUCTION SEQUENCE PLAN HAS BEEN DEVELOPED. THE FOLLOWING ARE PROCEDURES TO BE FOLLOWED:
- ALL VEHICLES AND EQUIPMENT BROUGHT TO THE PROJECT SITE SHALL BE CLEAN AND FREE OF INVASIVE PLANT MATERIAL.
 - A ENVIRONMENTAL RESOURCE SPECIALIST SHALL MARK OUT RESOURCE BOUNDARIES RELATED TO WETLAND AND RIVERBANK STABILIZATION AREAS IN THE FIELD PRIOR TO CONSTRUCTION.
 - PRIOR TO ANY SITE GRADING OR SITE WORK, THE CONTRACTOR SHALL INSTALL ALL SEDIMENT AND EROSION CONTROLS AS SHOWN ON THE RESTORATION PLAN, PLUS ANY ADDITIONAL CONTROLS REQUESTED BY THE ENVIRONMENTAL RESOURCE SPECIALIST BASED ON SITE CONDITIONS TO PREVENT SEDIMENT FROM LEAVING THE SITE OR FURTHER ENCRoACHING INTO WETLANDS, THE PHASE 1 POND, OR THE WHITE RIVER.
 - THE CONTRACTOR FOREMAN SHALL BE DESIGNATED AS THE ON-SITE INDIVIDUAL RESPONSIBLE FOR THE DAILY MONITORING AND MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROLS. ANY BREACH OR FAILURE IN SEDIMENT CONTROLS SHALL BE IMMEDIATELY REPAIRED OR REPLACED. SEDIMENT BUILD-UP BEHIND ANY EROSION CONTROL BARRIER SHALL BE REMOVED WHENEVER SEDIMENT HAS ACCUMULATED TO 3-INCHES IN DEPTH.
 - THE CONTRACTOR SHALL INCORPORATE PERMANENT EROSION CONTROL FEATURES, PERMANENT SLOPE STABILIZATION, AND VEGETATION INTO THE PROJECT PLANS AT THE EARLIEST PRACTICAL TIME TO MINIMIZE THE NEED FOR TEMPORARY CONTROLS.
 - ANY AREA DISTURBED WITHIN THE LIMIT OF BANK WORK IS TO BE SEED AS NOTED IN THE LANDSCAPE PLAN UNLESS SPECIFIED OTHERWISE. THE GROUND SURFACE SHALL BE SCARIFIED PRIOR TO SEEDING. AFTER SEEDING, STRAW MULCH SHALL BE APPLIED TO THE GROUND SURFACE AT A RATE OF 2,500 LBS/ACRE. SEEDED AND/OR PLANTED SLOPES GREATER THAN 3:1 SHALL BE COVERED WITH A BIODEGRADABLE EROSION CONTROL BLANKET SPECIFIED IN THE PLANS.
 - THE CONTRACTOR SHALL MAINTAIN TEMPORARY EROSION AND SEDIMENTATION CONTROL SYSTEMS IN GOOD CONDITION UNTIL THE SITE IS STABLE, AS VERIFIED BY THE ENVIRONMENTAL RESOURCE SPECIALIST. ONCE THE SITE IS STABLE, THE SEDIMENT AND EROSION CONTROLS MAY BE REMOVED UNDER THE DIRECTION OF THE ENVIRONMENTAL RESOURCE SPECIALIST.
 - SHOULD ANY EROSION CONTROL BLANKET BE UTILIZED, THEY SHALL BE COMPRISED OF NON-SYNTHETIC MATERIALS (E.G., JUTE MATTING). NO EROSION CONTROL BLANKETS COMPOSED OF PLASTIC-BASED MATERIALS SHALL BE USED.

Prepared by:
SWCA
 ENVIRONMENTAL CONSULTANTS
 SWCA Environmental Consultants
 1063 W Horsetooth Rd
 Building B, Suite 200
 Fort Collins, CO 80526
 (970) 237 4096
 www.swca.com



- LEGEND**
- MAJOR CONTOURS
 - MINOR CONTOURS
 - PROPOSED CONTOURS
 - FENCE
 - PARK ENHANCEMENT AREA
 - PHASE 1 DESIGN AREA (BY OTHERS)
 - EROSION CONTROL BARRIER
 - TREE PROTECTION
 - TURBIDITY CURTAIN
 - EXISTING ELEMENTS TO BE REMOVED



A Portion of Outlot 9
 14.06 Acres ±
 (Calculated to North Edge of White River)

OWNER: SMITH, DAVID RANCHES INC.

Project Title:
WHITE RIVER RIVERFRONT ENHANCEMENTS
 20 5TH STREET
 MEEKER, CO

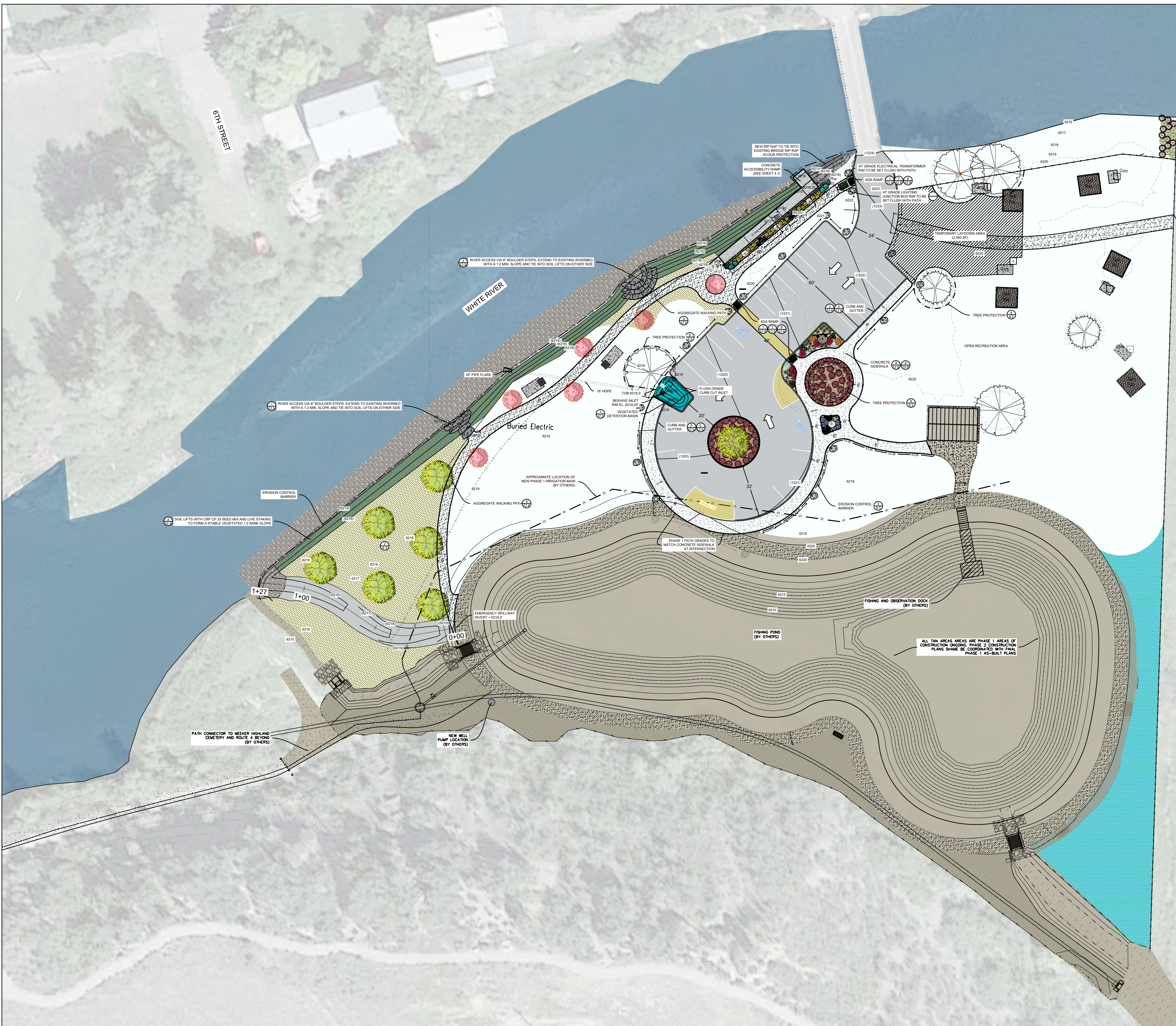
Sheet Title:
DEMOLITION AND EROSION CONTROLS

Date:	04/07/2023
Scale:	As Shown
Drawn by:	KLX
Checked by:	MP
File #	72070

REVISIONS		
Date:	By:	Note:

Sheet No:
 3.0





EROSION CONTROL PLAN AND CONSTRUCTION SEQUENCING

EROSION AND SEDIMENT CONTROL METHODS FOR THE PROJECT INCLUDE STRUCTURAL AND STABILIZATION PRACTICES. STRUCTURAL PRACTICES INVOLVE THE CONSTRUCTION OF DEVICES TO DIVERT AND LIMIT RUNOFF. STABILIZATION PRACTICES WILL BE IMPLEMENTED TO COVER EXPOSED SOIL SO THAT DISCHARGE OF SEDIMENT IS MINIMIZED. AN ADEQUATE STOCKPILE OF EROSION CONTROL MATERIALS WILL BE MAINTAINED AT THE PROJECT SITE IN THE EVENT OF AN EMERGENCY OR ROUTINE REPAIR.

TO FURTHER MINIMIZE SEDIMENT LOSS ON THE SITE, A GENERAL CONSTRUCTION SEQUENCE PLAN HAS BEEN DEVELOPED. THE FOLLOWING ARE PROCEDURES TO BE FOLLOWED:

1. ALL VEHICLES AND EQUIPMENT BROUGHT TO THE PROJECT SITE SHALL BE CLEAN AND FREE OF INVASIVE PLANT MATERIAL.
2. AN ENVIRONMENTAL RESOURCE SPECIALIST SHALL MARK OUT RESOURCE BOUNDARIES RELATED TO WETLAND AND RIVERBANK STABILIZATION AREAS IN THE FIELD PRIOR TO CONSTRUCTION.
3. PRIOR TO ANY SITE GRADING OR SITE WORK, THE CONTRACTOR SHALL INSTALL ALL SEDIMENT AND EROSION CONTROLS AS SHOWN ON THE RESTORATION PLAN, PLUS ANY ADDITIONAL CONTROLS REQUESTED BY THE ENVIRONMENTAL RESOURCE SPECIALIST BASED ON SITE CONDITIONS TO PREVENT SEDIMENT FROM LEAVING THE SITE OR FURTHER ENDOACHING INTO WETLANDS, THE PHASE 1 POND, OR THE WHITE RIVER.
4. THE CONTRACTOR FOREMAN SHALL BE DESIGNATED AS THE ON-SITE INDIVIDUAL RESPONSIBLE FOR THE DAILY MONITORING AND MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROLS. ANY BREACH OR FAILURE IN SEDIMENT CONTROLS SHALL BE IMMEDIATELY REPAIRED OR REPLACED. SEDIMENT BUILT-UP BEHIND ANY EROSION CONTROL BARRIER SHALL BE REMOVED WHENEVER SEDIMENT HAS ACCUMULATED TO 3-INCHES IN DEPTH.
5. THE CONTRACTOR SHALL INCORPORATE PERMANENT EROSION CONTROL FEATURES, PERMANENT SLOPE STABILIZATION, AND VEGETATION INTO THE PROJECT PLANS AT THE EARLIEST PRACTICAL TIME TO MINIMIZE THE NEED FOR TEMPORARY CONTROLS.
6. ANY AREA DISTURBED WITHIN THE LIMIT OF BANK WORK IS TO BE SEED AS NOTED IN THE LANDSCAPE PLAN UNLESS SPECIFIED OTHERWISE. THE GROUND SURFACE SHALL BE SCARIFIED PRIOR TO SEEDING. AFTER SEEDING, STRAW MULCH SHALL BE APPLIED TO THE GROUND SURFACE AT A RATE OF 2,500 LBS/ACRE. SEEDS AND/OR PLANTED SLOPES GREATER THAN 3:1 SHALL BE COVERED WITH A BIODEGRADABLE EROSION CONTROL BLANKET SPECIFIED IN THE PLANS.
7. THE CONTRACTOR SHALL MAINTAIN TEMPORARY EROSION AND SEDIMENTATION CONTROL SYSTEMS IN GOOD CONDITION UNTIL THE SITE IS STABLE AS VERIFIED BY THE ENVIRONMENTAL RESOURCE SPECIALIST. ONCE THE SITE IS STABLE, THE SEDIMENT AND EROSION CONTROLS MAY BE REMOVED UNDER THE DIRECTION OF THE ENVIRONMENTAL RESOURCE SPECIALIST.
8. SHOULD ANY EROSION CONTROL BLANKET BE UTILIZED, THEY SHALL BE COMPRISED OF NON-SYNTHETIC MATERIALS (I.E. JUTE MATTING). NO EROSION CONTROL BLANKETS COMPOSED OF PLASTIC-BASED MATERIALS SHALL BE USED.

GENERAL CONSTRUCTION NOTES

9. CONTRACTOR SHALL BE AWARE OF THE LOW WEIGHT LIMIT OF CIRCLE PARK BRIDGE AND NOT EXCEED LOAD LIMIT. MATERIALS SHALL BE SHUTTLED ACROSS AS NECESSARY.

BANK RESTORATION NOTES

10. ERODED PORTIONS OF RIVERBANK ARE TO BE RESTORED WITH 12" BIODEGRADABLE SOIL LIFTS AS SHOWN IN THE DETAILS. LIFTS WILL BE INSTALLED BY HAND AND ASSOCIATED MINOR EARTHWORK WILL ALSO BE COMPLETED BY HAND OR WITH LIGHT MACHINERY. UPGRADEMENT AREAS ADJACENT TO BANK STABILIZATION WORK SHALL TO BE REVEGETATED, AS NEEDED.
11. A FRAGILE "PLANTING BED" CONSISTENCY SHALL BE PREPARED. ANY COMPACTION CAUSED BY EXCAVATION SHALL BE ALLEVIATED.
12. SOIL LIFTS ARE TO BE PLANTED WITH NATIVE WOODY SPECIES, THEN SEEDED WITH NATIVE SEED (SEE PLANTING SCHEDULE). PLANT SUBSTITUTIONS DUE TO COMMERCIAL AVAILABILITY OR HYDROLOGIC CONDITIONS MUST BE APPROVED BY THE ENVIRONMENTAL RESOURCE SPECIALIST.
13. THE EROSION CONTROL BARRIER UPGRADEMENT OF BANKWORK OR BETWEEN THE RIVER AND RESTORATION AREAS SHALL BE REMOVED UPON STABILIZATION OF THE RESTORATION AREAS AND THE AREA RAKED TO ELIMINATE ANY BERM THAT MAY BE PRESENT. ANY BARE SOIL THAT RESULTS FROM THE REMOVAL OF THE EROSION CONTROLS SHALL BE SEEDED WITH THE SPECIFIED SEED MIX. ALL STAKES AND TWINE SHALL BE REMOVED.

Prepared by:
SWCA
 ENVIRONMENTAL CONSULTANTS
 SWCA Environmental Consultants
 1063 W Horsetooth Rd
 Building B, Suite 200
 Fort Collins, CO 80526
 (970) 237-4096
 www.swca.com



101 UTE ROAD
 MEEKER, CO 81641

LEGEND

- MAJOR CONTOURS
- MINOR CONTOURS
- - - PROPOSED CONTOURS
- FENCE
- PARK ENHANCEMENT AREA
- PHASE 1 DESIGN AREA (BY OTHERS)
- EROSION CONTROL BARRIER
- ⊕ TREE PROTECTION
- TURBIDITY CURTAIN

ANSI D (22"x34") SCALE: 1"=30'
 TABLORD (11"x17") SCALE: 1"=60'

Stamp:

Project Title:
**WHITE RIVER
 RIVERFRONT
 ENHANCEMENTS**
 20 5TH STREET
 MEEKER, CO

Sheet Title:
**CIRCLE PARK EROSION
 CONTROL
 AND GRADING PLAN**

Date:	04/07/2023
Scale:	As Shown
Drawn by:	KLX
Checked by:	MP
File #	72070

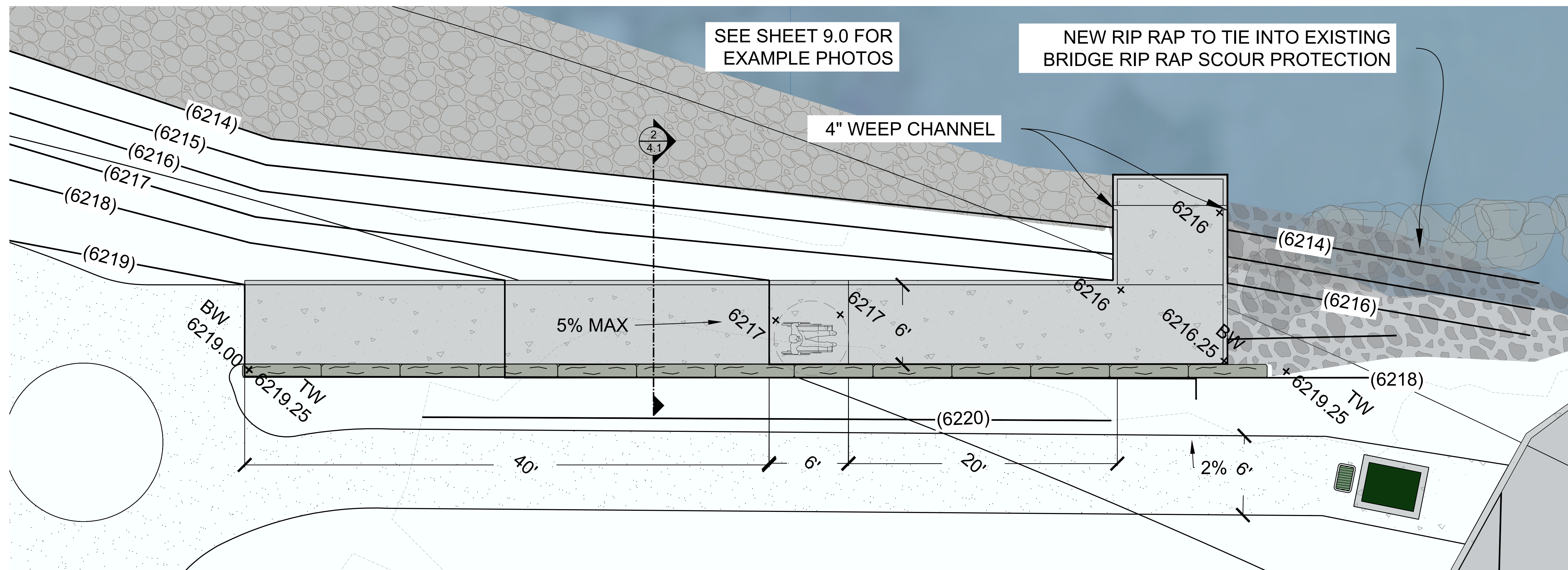
REVISIONS

Date:	By:	Note:

Sheet No:
 4.0

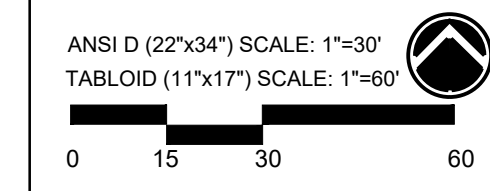


PLANS FOR BID PURPOSED ONLY. NOT FOR CONSTRUCTION

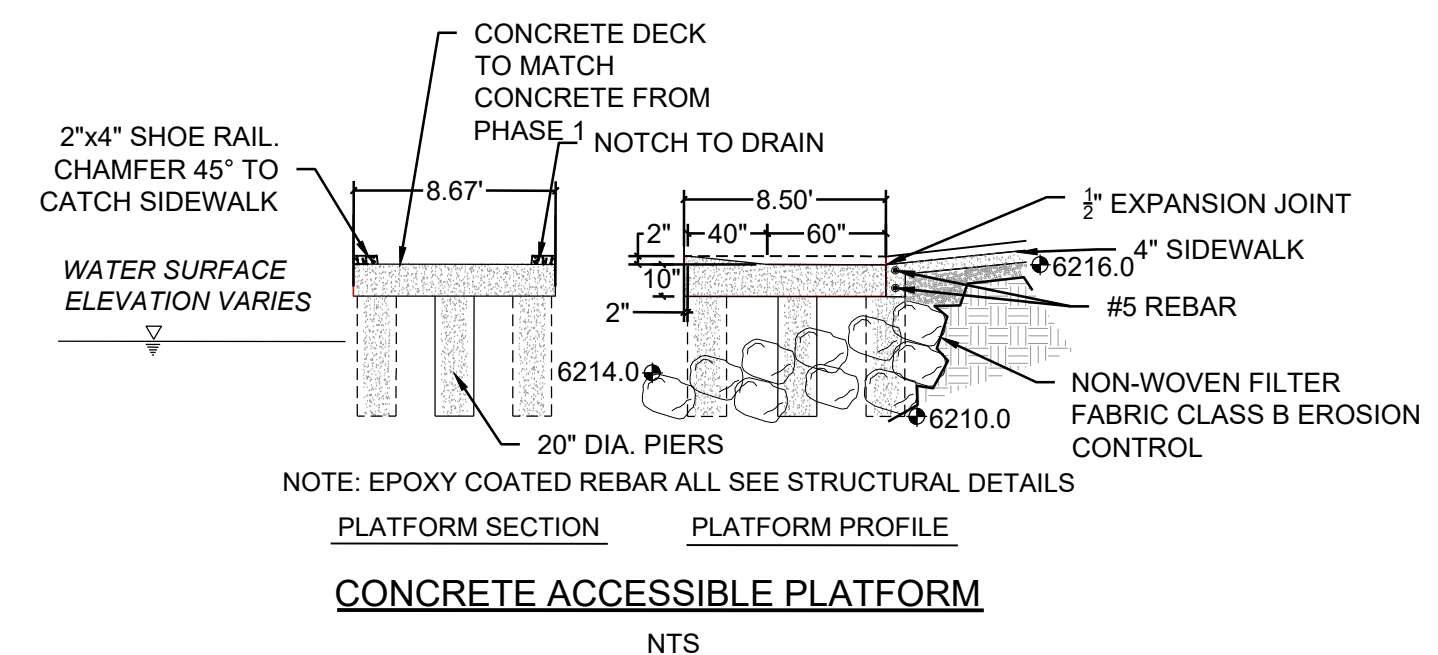


LEGEND

	MAJOR CONTOURS
	MINOR CONTOURS
	PROPOSED CONTOURS
	CONCRETE RAMP
	STONE RETAINING WALL
	RIP RAP BRIDGE PROTECTION



1 ACCESSIBLE RAMP PLAN
 Scale: 3" = 1'

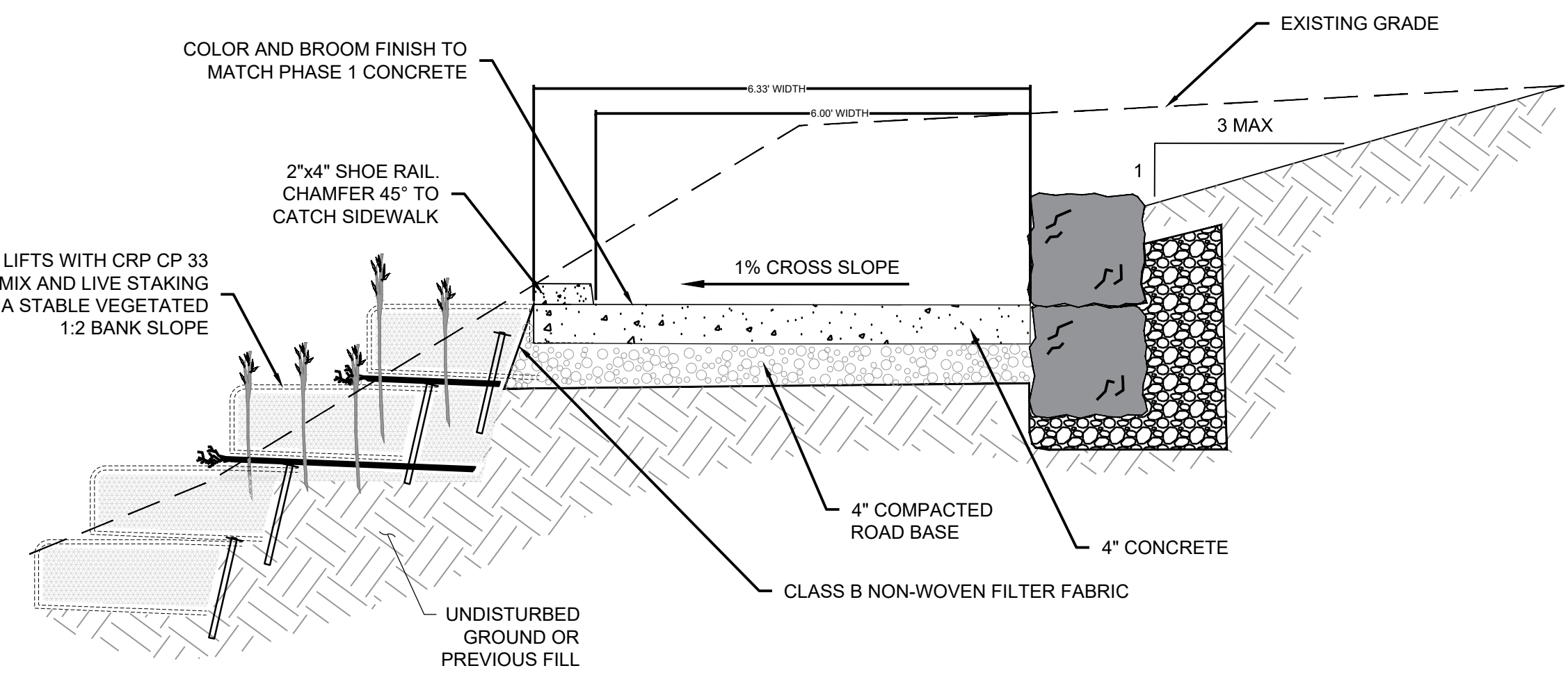


- GENERAL NOTES:
- FINAL RAMP DESIGN SHALL BE FURTHER DEVELOPED IN CONCERT WITH IN-RIVER DESIGNS TO ENSURE SUITABLE INTEGRATION WITH PROPOSED RIVER MORPHOLOGY.
- GENERAL CONCRETE NOTES:
- WORK IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE, ACI 318 AND LOCAL ORDINANCES.
 - VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO POURING CONCRETE.
 - USE GRADE 60 REINFORCING STEEL.
 - MIN. CONCRETE COMPRESSIVE STRENGTH: $f_c = 3000$ psi.
 - BEAR ALL EXTERIOR FOOTINGS BELOW FROST DEPTH.
 - BEAR FOOTINGS ON UNDISTURBED NATURAL MATERIAL, OR ON PROPERLY PLACED AND COMPACTED GRANULAR FILL.
 - ALL WOOD MEMBERS TO BE NON-INCISED SEE SPECIFICATIONS

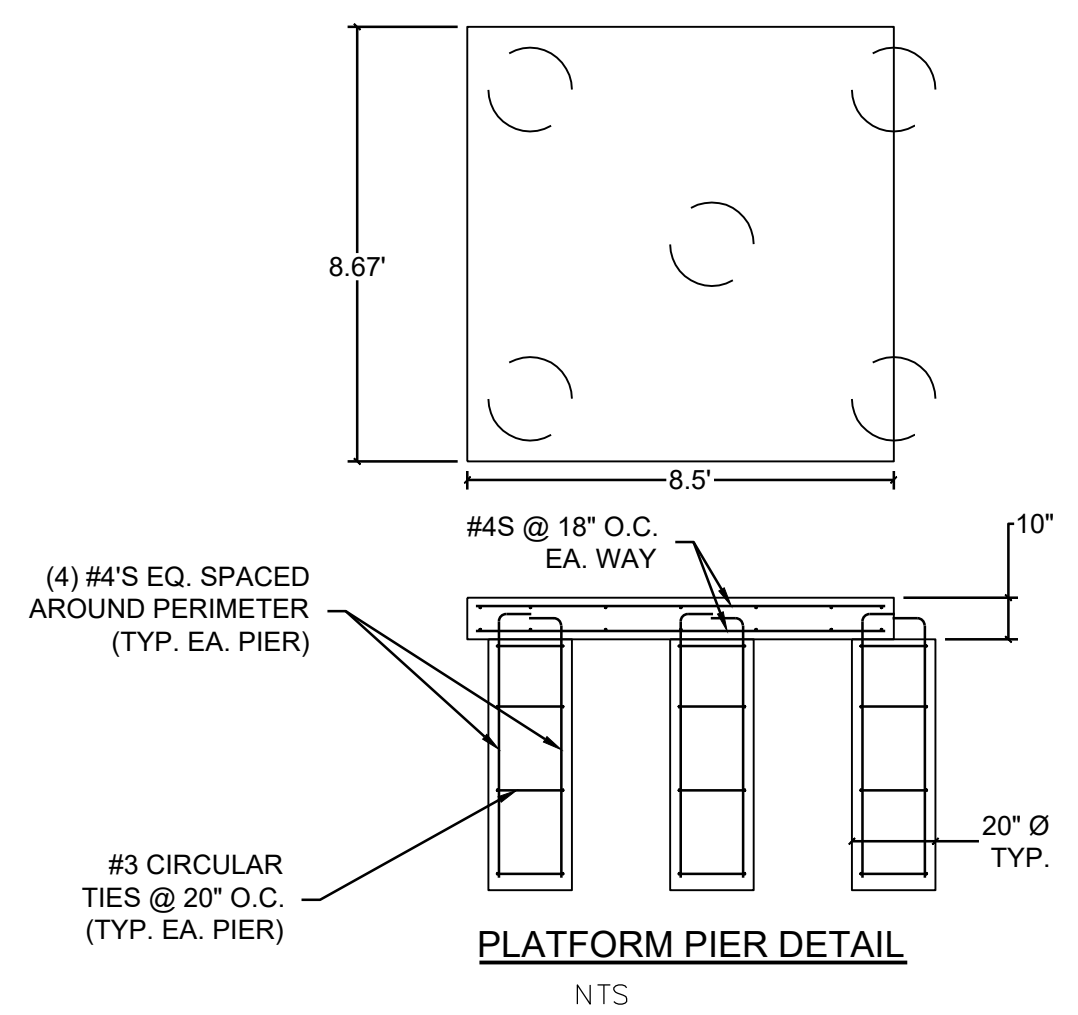
- GENERAL RETAINING WALL NOTES:
- DESIGN LATERAL PRESSURE METHOD: EQUIVALENT FLUID PRESSURE (E.F.P.)
 - ASSUMED SOIL VALUES:
 ALLOWABLE SOIL BEARING: 1500 psf/ft
 ACTIVE SOIL PRESSURE: 35 psf/ft
 PASSIVE SOIL PRESSURE: 250 psf/ft
 - VERIFY SOIL VALUES THROUGH GEOTECHNICAL TESTING.



2 CONCRETE RAMP SECTION A
 SCALE: NTS



3 ACCESSIBLE RIVER ACCESS RAMP
 SCALE: NTS



Project Title:
WHITE RIVER RIVERFRONT ENHANCEMENTS
 20 5TH STREET
 MEEKER, CO

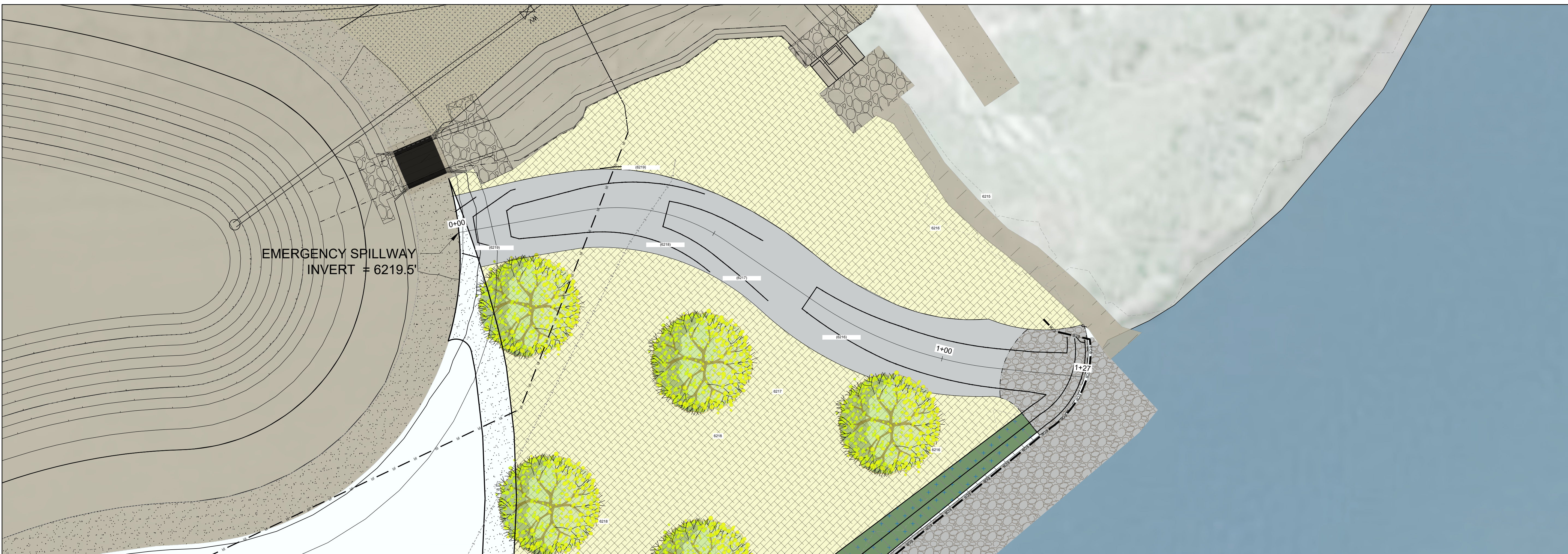
Sheet Title:
ACCESS RAMP

Date:	04/07/2023
Scale:	As Shown
Drawn by:	KLX
Checked by:	MP
File #	72070

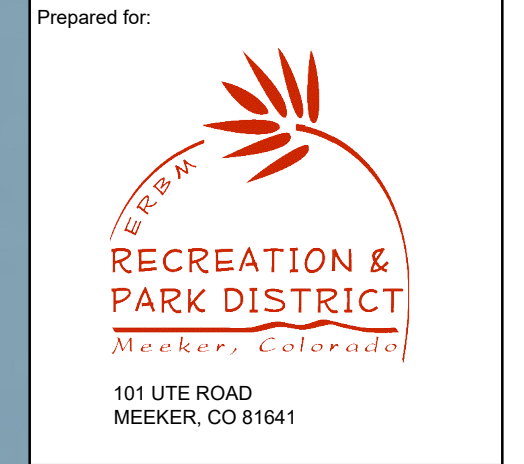
REVISIONS

Date:	By:	Note:

Sheet No:
 4.1



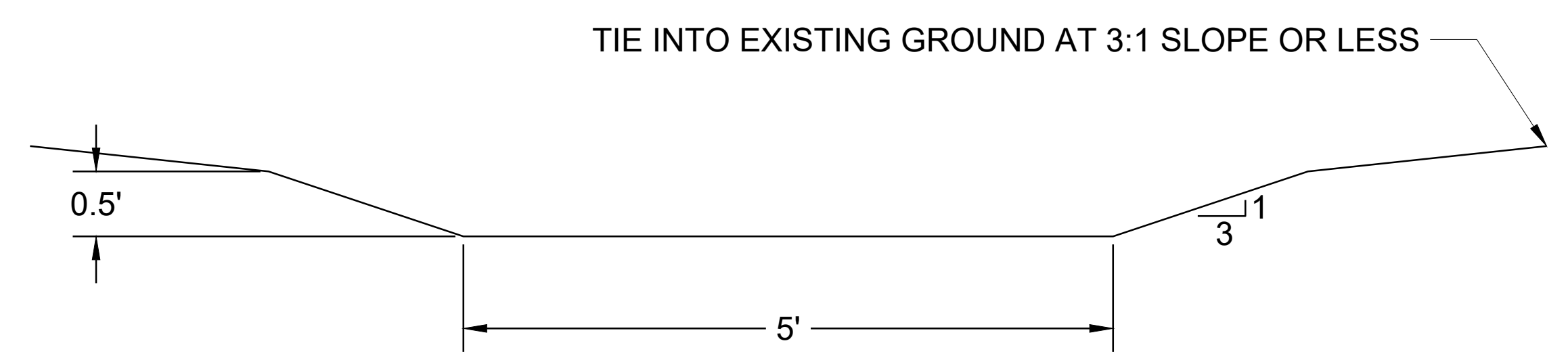
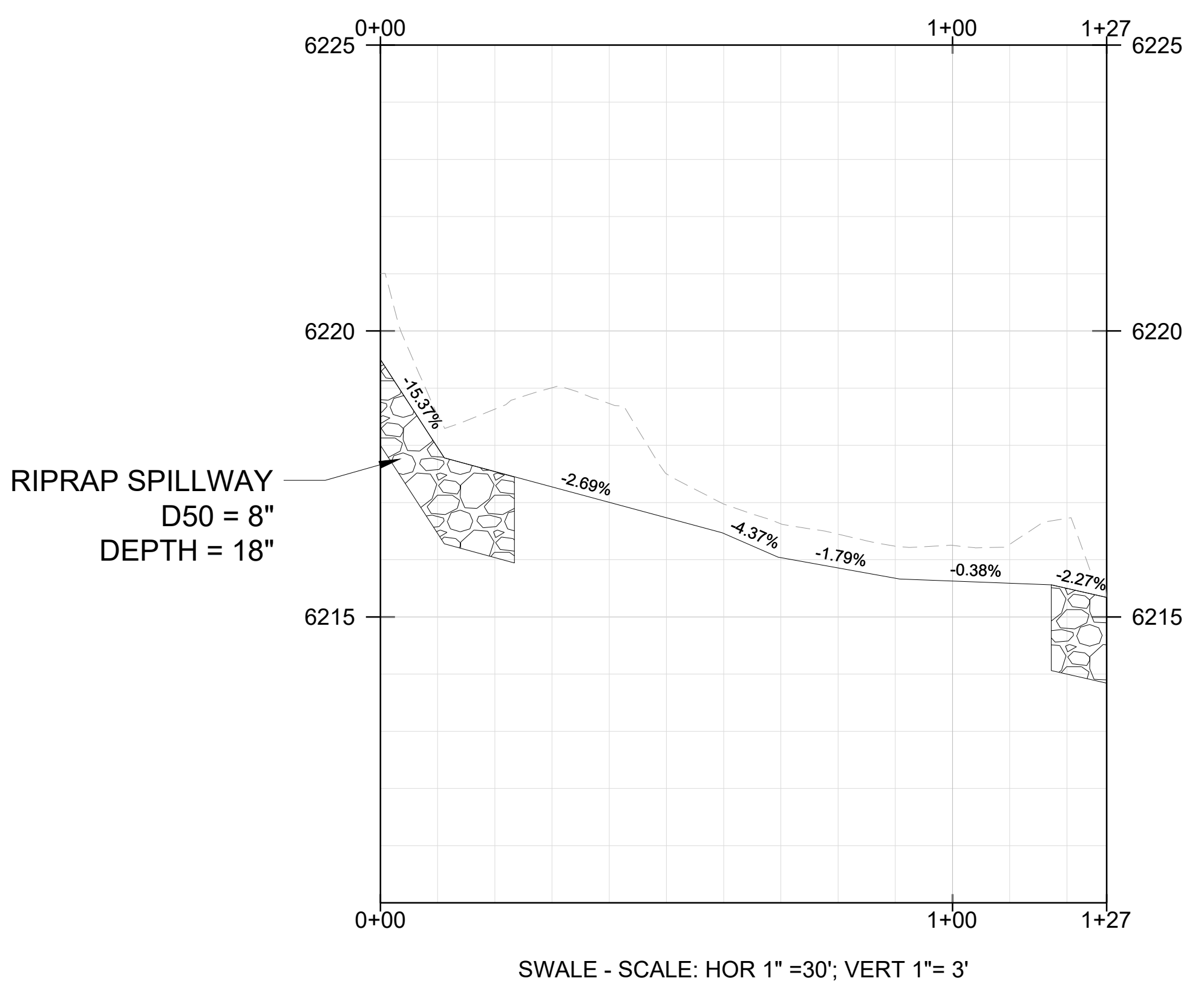
Prepared by:
SWCA
 ENVIRONMENTAL CONSULTANTS
 SWCA Environmental Consultants
 1063 W Horsetooth Rd
 Building B, Suite 200
 Fort Collins, CO 80526
 (970) 237-4096
 www.swca.com



LEGEND

- MAJOR CONTOURS
- MINOR CONTOURS
- PROPOSED CONTOURS
- FENCE
- PARK ENHANCEMENT AREA
- PHASE 1 DESIGN AREA (BY OTHERS)
- EROSION CONTROL BARRIER
- TREE PROTECTION
- TURBIDITY CURTAIN

ANSI D (22"x34") SCALE: 1"=10'
 TABLOID (11"x17") SCALE: 1"=20'



Stamp:

Project Title:
**WHITE RIVER
 RIVERFRONT
 ENHANCEMENTS**
 20 5TH STREET
 MEEKER, CO

Sheet Title:
**CIRCLE PARK SWALE
 PLAN & PROFILE**

Date:	04/07/2023
Scale:	As Shown
Drawn by:	KLX
Checked by:	MP
File #	72070

REVISIONS		
Date:	By:	Note:

Sheet No:
 4.2



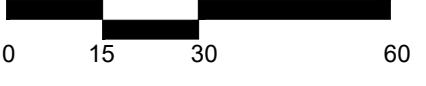


Prepared by:
SWCA
 ENVIRONMENTAL CONSULTANTS
 SWCA Environmental Consultants
 1063 W Horsetooth Rd
 Building B, Suite 200
 Fort Collins, CO 80526
 (970) 237-4096
 www.swca.com

Prepared for:

 RECREATION & PARK DISTRICT
 Meeker, Colorado
 101 UTE ROAD
 MEEKER, CO 81641

- LEGEND**
- MAJOR CONTOURS
 - MINOR CONTOURS
 - PROPOSED CONTOURS
 - FENCE
 - PHASE 1 IMPLEMENTATION (BY OTHERS)
 - SLOPE STABILIZATION AND RESEEDING AREA
 - FORMAL PLANTING AREAS
 - LANDSCAPE SEEDING AREA
 - STORMWATER RAINGARDEN
 - EXISTING SOO
 - POST AND CHAIN BOLLARDS

ANSI D (22"x34") SCALE: 1"=30'
 TABLOID (11"x17") SCALE: 1"=60'


Stamp:

Project Title:
**WHITE RIVER
 RIVERFRONT
 ENHANCEMENTS**
 20 5TH STREET
 MEEKER, CO

Sheet Title:
LANDSCAPE PLAN

Date:	04/07/2023
Scale:	As Shown
Drawn by:	KLX
Checked by:	MP
File #	72070

REVISIONS		
Date:	By:	Note:

Sheet No:
5.0



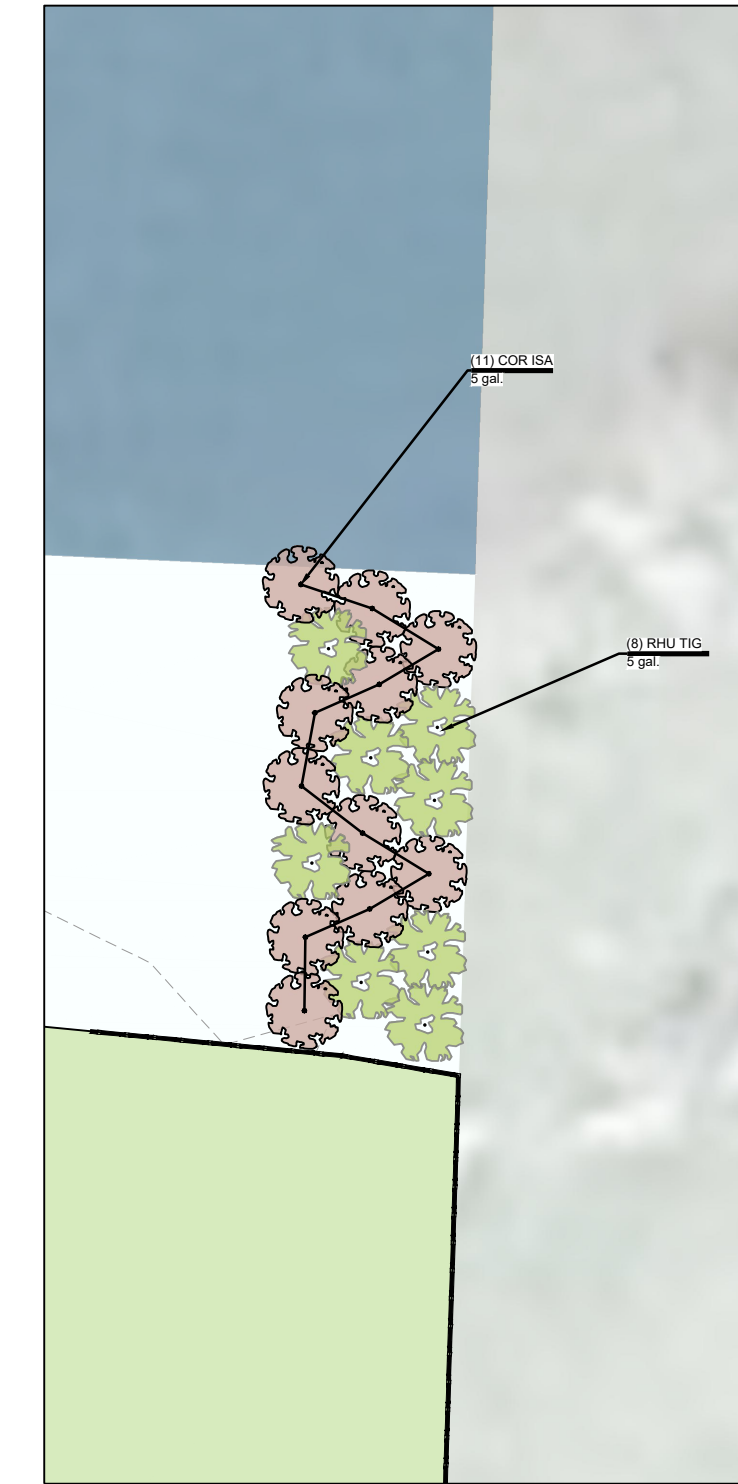
PLANS FOR BID PURPOSED ONLY. NOT FOR CONSTRUCTION

PLANT SCHEDULE

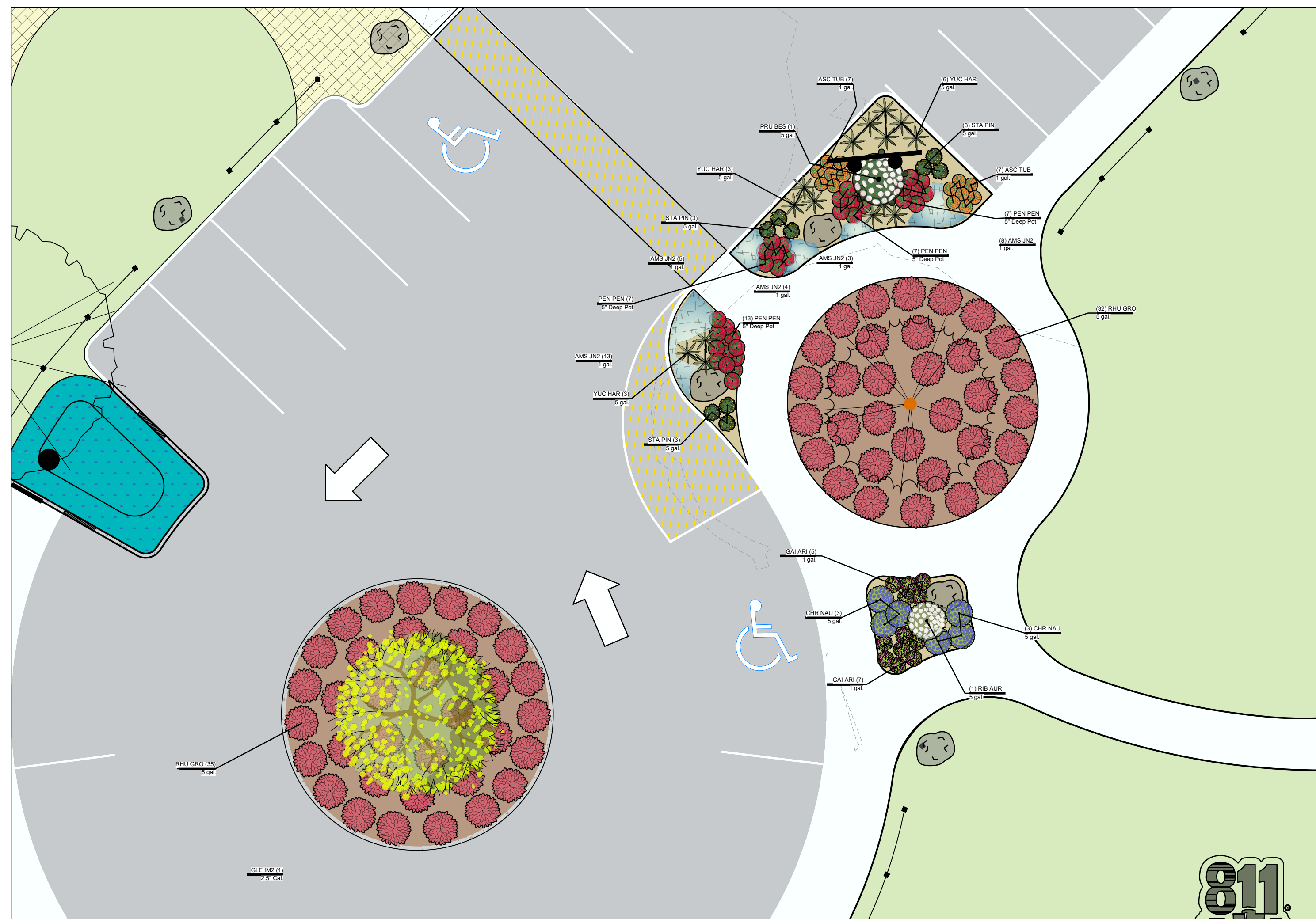
DECIDUOUS TREES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	
	AME GRA	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	2" CAL.	B&B	6	
	GLE IM2	GLEDTISIA TRIACANTHOS INERMIS 'IMPCOLE' TM	IMPERIAL HONEYLOCUST	2.5" CAL.	B&B	7	
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	
	AME RGN	AMELANCHIER ALNIFOLIA 'REGENT'	REGENT SERVICEBERRY	5 GAL.	POT	3	
	CAR CLA	CARYOPTERIS X CLANDONENSIS 'BLUE MIST'	BLUE MIST BLUEBEARD	5 GAL.	POT	6	
	CHR NAU	CHRYSOTHAMNUS NAUSEOSUS NAUCEOSUS	DWARF BLUE RABBITBRUSH	5 GAL.	POT	6	
	COR ISA	CORNUS SERICEA 'ISANTI'	ISANTI RED TWIG DOGWOOD	5 GAL.	POT	11	
	JUN BL3	JUNIPERUS HORIZONTALIS 'BLUE CHIP'	BLUE CHIP JUNIPER	5 GAL.	POT	6	
	POT RUC	POTENTILLA FRUTICOSA 'PURDOMNII'	FOREVER GOLD CINQUEFOIL	5 GAL.	POT	18	
	PRU BES	PRUNUS BESSEYI	SAND CHERRY	5 GAL.	POT	1	
	RHU GRO	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	5 GAL.	POT	67	
	RHU TIG	RHUS TYPHINA 'TIGER EYES'	TIGER EYES SUMAC	5 GAL.	POT	8	
	RIB AUR	RIBES AUREUM	GOLDEN CURRANT	5 GAL.	POT	1	
	YUC HAR	YUCCA HARRIMANIAE	HARRIMAN'S YUCCA	5 GAL.	POT	15	
PERENNIALS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	
	ASC TUB	ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	1 GAL.	POT	14	
	GAI ARI	GAILLARDIA ARISTATA	COMMON GAILLARDIA	1 GAL.	POT	12	
	PEN PEN	PENSTEMON EATONII	FIRECRACKER PENSTEMON	5" DEEP POT	POT	34	
	STA PIN	STANLEYA PINNATA	PRINCE'S PLUME	5 GAL.		9	
SHRUB AREAS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING	QTY
	BG	BANK STABILIZATION PALETTE	RESIN BIRCH	LIVE STAKES		30% @ 36" o.c.	2,836 SF
	RA	BETULA GLANDULOSA	FRAGRANT SUMAC	LIVE STAKES		20% @ 36" o.c.	99
	SA	RHUS AROMATICA	PEACH LEAF WILLOW	LIVE STAKES		10% @ 36" o.c.	66
	SE	SALIX AMYGDALOIDES	NARROWLEAF WILLOW	LIVE STAKES		40% @ 36" o.c.	33
	SE	SALIX EXIGUA	NARROWLEAF WILLOW	LIVE STAKES		40% @ 36" o.c.	131
GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING	QTY
	AMS JN2	AMSONIA JONESII	JONES' BLUESTAR	1 GAL.	POT	18" o.c.	33



1 LOW GROWING ACCESS RAMP BED
Scale: 1" = 10'



2 COLONIZING SHRUB BORDER
Scale: 1" = 10'



2 PARKING AREA PLANTING BED AREAS
Scale: 1" = 10'

Prepared by:
SWCA
ENVIRONMENTAL CONSULTANTS
SWCA Environmental Consultants
1063 W Horsetooth Rd
Building B, Suite 200
Fort Collins, CO 80526
(970) 237-4096
www.swca.com

Prepared for:

RECREATION & PARK DISTRICT
Meeker, Colorado
101 UTE ROAD
MEEKER, CO 81641

LEGEND

- MAJOR CONTOURS
- MINOR CONTOURS
- PROPOSED CONTOURS
- FENCE
- PHASE 1 IMPLEMENTATION (BY OTHERS)
- SLOPE STABILIZATION AND RESEEDING AREA
- FORMAL PLANTING AREAS
- LANDSCAPE SEEDING AREA
- STORMWATER RAINGARDEN
- EXISTING SOD

ANSI D (22"x34") SCALE: 1"=10'
TABLOID (11"x17") SCALE: 1"=20'

0 5 10 20

Stamp:

Project Title:
WHITE RIVER RIVERFRONT ENHANCEMENTS
20 5TH STREET
MEEKER, CO

Sheet Title:
PLANTING BED DESIGN PLAN

Date:	04/07/2023
Scale:	As Shown
Drawn by:	KLX
Checked by:	MP
File #	72070

REVISIONS

Date:	By:	Note:

Sheet No:



Symbol	Label	Image	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	Lumen Multiple	LLF	Wattage	Efficiency	Distribution	Polar Plot	Notes
	A		1	Lithonia Lighting	DSX1 LED P1 30K T5M MVOLT	DSX1 LED P1 30K T5M MVOLT	LED	1	DSX1_LED_P1_30K_T5M_MVOL T.ies	6711	1	1	54	100%	TYPE VS. BUG RATING: B3 - U0 - G1		
	B		5	Lithonia Lighting	DSX1 LED P1 30K T4M MVOLT	DSX1 LED P1 30K T4M MVOLT	LED	1	DSX1_LED_P1_30K_T4M_MVOL T.ies	6327	1	1	54	100%	TYPE IV. SHORT, BUG RATING: B1 - U0 - G2		
	C		3	Lithonia Lighting	DSXB LED 16C 530 30K SYM	D-SERIES BOLLARD WITH 16 3000K Leds OPERATED AT 530mA AND SYMMETRIC DISTRIBUTION	LED	1	DSXB_LED_16C_530_30K_SYM.ies	2232	1	1	28	100%	TYPE VS. BUG RATING: B2 - U0 - G1		

Luminaire Locations										
Location										Aim
No.	Label	X	Y	Z	MH	Orientation	Tilt	X	Y	Z
1	A	2324960.00	1264510.00	20.00	20.00	310.72	0.00	2324859.00	1264511.00	0.00
1	B	2324931.00	1264426.00	20.00	20.00	252.47	0.00	2324930.00	1264426.00	0.00
2	B	2324721.00	1264453.00	20.00	20.00	90.90	0.00	2324722.00	1264453.00	0.00
3	B	2324833.00	1264421.00	20.00	20.00	299.41	0.00	2324832.00	1264422.00	0.00
4	B	2324850.00	1264597.00	20.00	20.00	105.26	0.00	2324851.00	1264597.00	0.00
5	B	2324791.00	1264542.00	20.00	20.00	136.47	0.00	2324792.00	1264541.00	0.00
1	C	2324827.00	1264599.00	3.00	3.00	321.84	0.00	2324827.00	1264599.00	0.00
2	C	2324808.00	1264582.00	3.00	3.00	321.84	0.00	2324808.00	1264582.00	0.00
3	C	2324787.00	1264566.00	3.00	3.00	321.84	0.00	2324787.00	1264566.00	0.00

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1		0.4 fc	12.8 fc	0.0 fc	N/A	N/A
Stat Zone #1		1.0 fc	2.0 fc	0.4 fc	5.0:1	2.5:1

Note

- Lighting fixtures to match comparable fixtures at Town Park. Substitutions based on availability shall be approved by the project engineer and Town of Meeker.
- Lighting calculations are for estimating purposes only, not generating exact values. Final lighting layout to be coordinated by a licensed lighting professional and/or licensed electrical engineer.
- Evaluation of the calculated lighting levels is based on the elements included in this plan for adherence to the project's lighting specifications for levels and uniformity. This calculations do not take into account lighting being implemented in the phase 1 design.
- Space characteristics and electrical supply to fixtures, along with installation details, may alter fixture output and model performance. Model is based on standard reflectance values unless otherwise noted. Any variance from reflectance values, obstructions, light loss factors (including both physical and electrical in nature) or dimensional data will affect the actual light levels obtained.



Prepared by:
SWCA
 ENVIRONMENTAL CONSULTANTS
 SWCA Environmental Consultants
 1063 W Horsetooth Rd
 Building B, Suite 200
 Fort Collins, CO 80526
 (970) 237-4096
 www.swca.com

Prepared for:

RECREATION & PARK DISTRICT
 Meeker, Colorado
 101 UTE ROAD
 MEEKER, CO 81641

LEGEND

- MAJOR CONTOURS
- MINOR CONTOURS
- PROPOSED CONTOURS
- FENCE
- PARK ENHANCEMENT AREA
- PHASE 1 DESIGN AREA (BY OTHERS)

ANSI D (22"x34") SCALE: 1"=30'
 TABLOID (11"x17") SCALE: 1"=60'

Stamp:

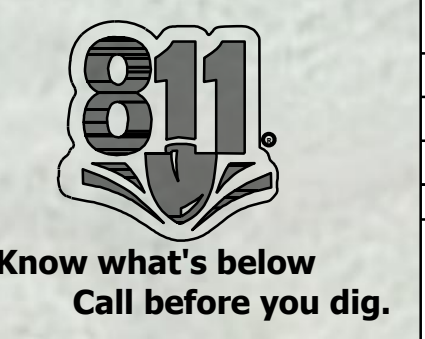
Project Title:
WHITE RIVER RIVERFRONT ENHANCEMENTS
 20 5TH STREET
 MEEKER, CO

Sheet Title:
CIRCLE PARK LIGHTING PLAN

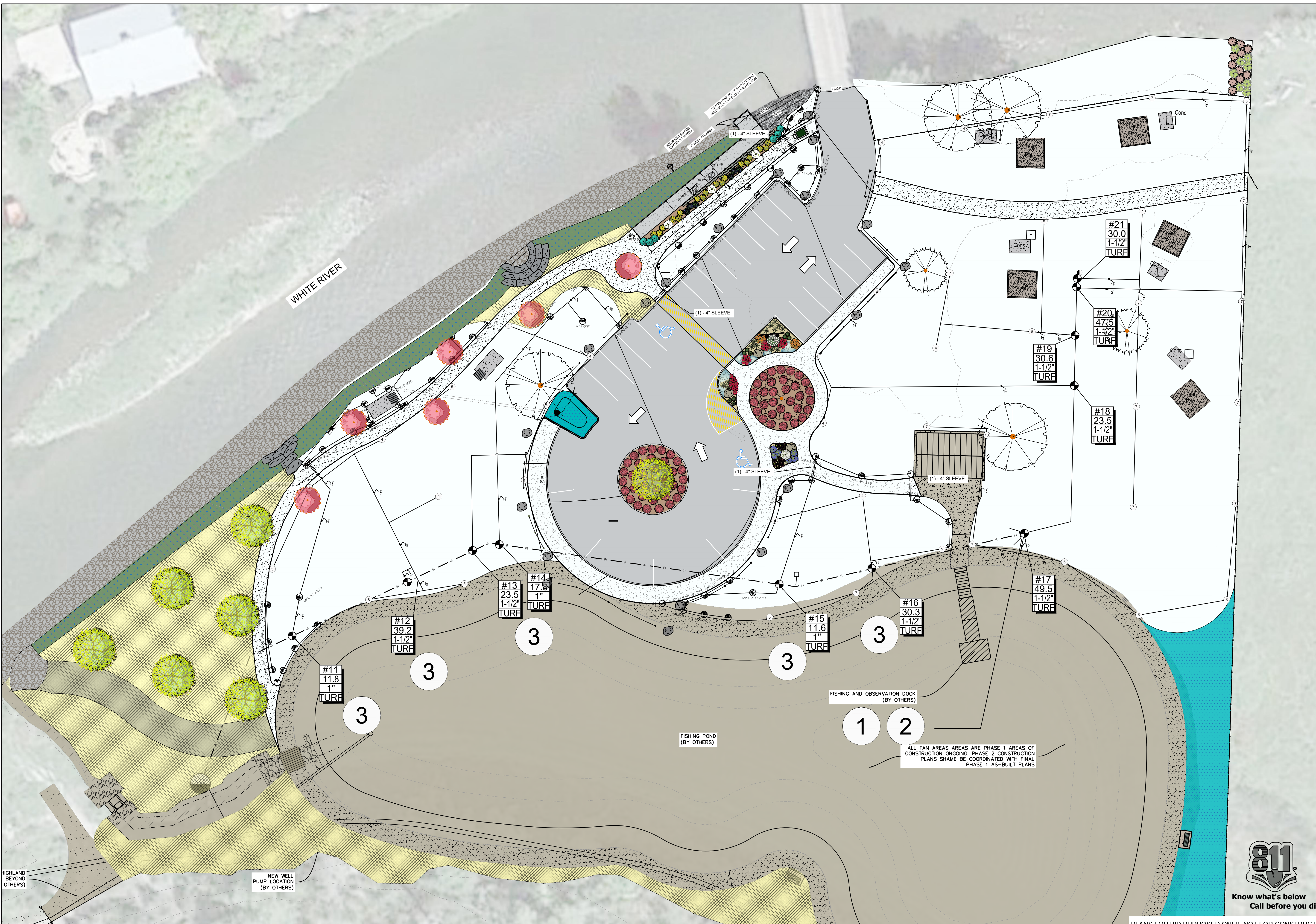
Date: 04/07/2023
 Scale: As Shown
 Drawn by: KLX
 Checked by: MP
 File #: 72070

REVISIONS		
Date:	By:	Note:


Sheet No:
 6.0



PLANS FOR BID PURPOSED ONLY. NOT FOR CONSTRUCTION




Prepared by:
SWCA
 ENVIRONMENTAL CONSULTANTS
 SWCA Environmental Consultants
 15 Research Drive
 Amherst, MA 01002
 (p) 413.256.0202
 (f) 413.256.1092
 www.swca.com

Prepared for:

 RECREATION & PARK DISTRICT
 Meeker, Colorado
 101 UTE ROAD
 MEEKER, CO 81641

Irrigation Designed by:

 LANDSCAPE 1
 Landscape Technology Group, Inc.

ANSI D (22"x34") SCALE: 1"=20'
 TABLOID (11"x17") SCALE: 1"=40'


Stamp:

Project Title:
WHITE RIVER RIVERFRONT ENHANCEMENTS
 20 5TH STREET
 MEEKER, CO

Sheet Title:
IRRIGATION PLAN

Date:	01/05/2021
Scale:	As Shown
Drawn by:	TS
Checked by:	NG
File #	48063.00

REVISIONS		
Date:	By:	Note:

Sheet No:
7.0



PLANS FOR BID PURPOSED ONLY. NOT FOR CONSTRUCTION

ALL TAN AREAS ARE PHASE 1 AREAS OF CONSTRUCTION ONGOING. PHASE 2 CONSTRUCTION PLANS SHAME BE COORDINATED WITH FINAL PHASE 1 AS-BUILT PLANS

FISHING POND (BY OTHERS)

FISHING AND OBSERVATION DOCK (BY OTHERS)

HIGHLAND BEYOND OTHERS)

NEW WELL PUMP LOCATION (BY OTHERS)



EROSION CONTROL PLAN AND CONSTRUCTION SEQUENCING

EROSION AND SEDIMENT CONTROL METHODS FOR THE PROJECT INCLUDE STRUCTURAL AND STABILIZATION PRACTICES. STRUCTURAL PRACTICES INVOLVE THE CONSTRUCTION OF DEVICES TO DIVERT AND LIMIT RUNOFF. STABILIZATION PRACTICES WILL BE IMPLEMENTED TO COVER EXPOSED SOIL SO THAT DISCHARGE OF SEDIMENT IS MINIMIZED. AN ADEQUATE STOCKPILE OF EROSION CONTROL MATERIALS WILL BE MAINTAINED AT THE PROJECT SITE IN THE EVENT OF AN EMERGENCY OR ROUTINE REPAIR.

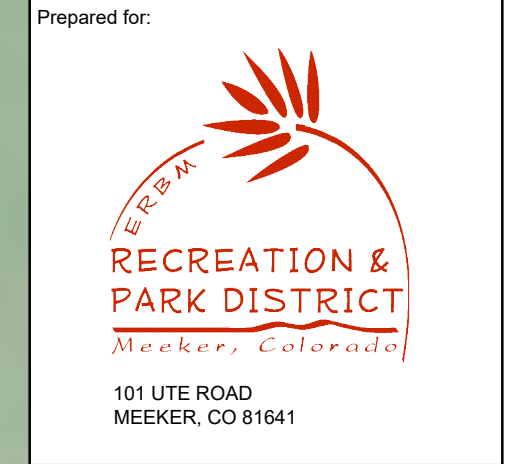
TO FURTHER MINIMIZE SEDIMENT LOSS ON THE SITE, A GENERAL CONSTRUCTION SEQUENCE PLAN HAS BEEN DEVELOPED. THE FOLLOWING ARE PROCEDURES TO BE FOLLOWED:

1. ALL VEHICLES AND EQUIPMENT BROUGHT TO THE PROJECT SITE SHALL BE CLEAN AND FREE OF INVASIVE PLANT MATERIAL.
2. AN ENVIRONMENTAL RESOURCE SPECIALIST SHALL MARK OUT RESOURCE BOUNDARIES RELATED TO WETLAND AND RIVERBANK STABILIZATION AREAS IN THE FIELD PRIOR TO CONSTRUCTION.
3. PRIOR TO ANY SITE GRADING OR SITE WORK, THE CONTRACTOR SHALL INSTALL ALL SEDIMENT AND EROSION CONTROLS AS SHOWN ON THE RESTORATION PLAN, PLUS ANY ADDITIONAL CONTROLS REQUESTED BY THE ENVIRONMENTAL RESOURCE SPECIALIST BASED ON SITE CONDITIONS TO PREVENT SEDIMENT FROM LEAVING THE SITE OR FURTHER ENCRoACHING INTO WETLANDS, THE PHASE 1 POND, OR THE WHITE RIVER.
4. THE CONTRACTOR FOREMAN SHALL BE DESIGNATED AS THE ON-SITE INDIVIDUAL RESPONSIBLE FOR THE DAILY MONITORING AND MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROLS. ANY BREACH OR FAILURE IN SEDIMENT CONTROLS SHALL BE IMMEDIATELY REPAIRED OR REPLACED. SEDIMENT BUILD-UP BEHIND ANY EROSION CONTROL BARRIER SHALL BE REMOVED WHENEVER SEDIMENT HAS ACCUMULATED TO 3-INCHES IN DEPTH.
5. THE CONTRACTOR SHALL INCORPORATE PERMANENT EROSION CONTROL FEATURES, PERMANENT SLOPE STABILIZATION, AND VEGETATION INTO THE PROJECT PLANS AT THE EARLIEST PRACTICAL TIME TO MINIMIZE THE NEED FOR TEMPORARY CONTROLS.
6. ANY AREA DISTURBED WITHIN THE LIMIT OF BANK WORK IS TO BE SEEDED AS NOTED IN THE LANDSCAPE PLAN UNLESS SPECIFIED OTHERWISE. THE GROUND SURFACE SHALL BE SCARIFIED PRIOR TO SEEDING. AFTER SEEDING, STRAW MULCH SHALL BE APPLIED TO THE GROUND SURFACE AT A RATE OF 2,500 LBS. PER ACRE. SEEDS AND/OR PLANTED SLOPES GREATER THAN 3:1 SHALL BE COVERED WITH A BIODEGRADABLE EROSION CONTROL BLANKET SPECIFIED IN THE PLANS.
7. THE CONTRACTOR SHALL MAINTAIN TEMPORARY EROSION AND SEDIMENTATION CONTROL SYSTEMS IN GOOD CONDITION UNTIL THE SITE IS STABLE AS VERIFIED BY THE ENVIRONMENTAL RESOURCE SPECIALIST. ONCE THE SITE IS STABLE, THE SEDIMENT AND EROSION CONTROLS MAY BE REMOVED UNDER THE DIRECTION OF THE ENVIRONMENTAL RESOURCE SPECIALIST.
8. SHOULD ANY EROSION CONTROL BLANKET BE UTILIZED, THEY SHALL BE COMPRISED OF NON-SYNTHETIC MATERIALS (E.G., JUTE MATTING). NO EROSION CONTROL BLANKETS COMPOSED OF PLASTIC-BASED MATERIALS SHALL BE USED.

BANK RESTORATION NOTES

9. ERODED PORTIONS OF RIVERBANK ARE TO BE RESTORED WITH 12" BIODEGRADABLE SOIL LIFTS AS SHOWN IN THE DETAILS. LIFTS WILL BE INSTALLED BY HAND AND ASSOCIATED MINOR EARTHWORK WILL ALSO BE COMPLETED BY HAND OR WITH LIGHT MACHINERY. UPGRADIENT AREAS ADJACENT TO BANK STABILIZATION WORK SHALL TO BE REVEGETATED, AS NEEDED.
10. A FRAGILE "PLANTING BED" CONSISTENCY SHALL BE PREPARED. ANY COMPACTION CAUSED BY EXCAVATION SHALL BE ALLEVIATED.
11. SOIL LIFTS ARE TO BE PLANTED WITH NATIVE WOODY SPECIES, THEN SEEDED WITH NATIVE SEED (SEE PLANTING SCHEDULE). PLANT SUBSTITUTIONS DUE TO COMMERCIAL AVAILABILITY OR HYDROLOGIC CONDITIONS MUST BE APPROVED BY THE ENVIRONMENTAL RESOURCE SPECIALIST.
12. THE EROSION CONTROL BARRIER UPGRADIENT OF BANKWORK OR BETWEEN THE RIVER AND RESTORATION AREAS SHALL BE REMOVED UPON STABILIZATION OF THE RESTORATION AREAS AND THE AREA RAKED TO ELIMINATE ANY BERRS THAT MAY BE PRESENT. ANY BARE SOIL THAT RESULTS FROM THE REMOVAL OF THE EROSION CONTROLS SHALL BE SEEDED WITH THE SPECIFIED SEED MIX. ALL STAKES AND TWINE SHALL BE REMOVED.

Prepared by:
SWCA
 ENVIRONMENTAL CONSULTANTS
 SWCA Environmental Consultants
 1063 W Horsetooth Rd
 Building B, Suite 200
 Fort Collins, CO 80526
 (970) 237 4096
 www.swca.com



LEGEND

[Green Box]	LANDSCAPE SCREENING AREA
[Light Green Box]	SLOPE STABILIZATION AND RESEEDING AREA
[Brown Box]	MULCH OPEN SPACE AREA
[Grey Box]	CRUSHER FINES PATH
[Blue Box]	CONCRETE SIDEWALK AND RAMP
[Red Box]	ARMORED CONVEYANCE SWALE
[White Box]	PEDESTRIAN CROSSING STRIPPING
[Dashed Line]	BOARD-ON-BOARD PRIVACY FENCE

ANSI D (22"x34") SCALE: 1"=20'
 TABLOID (11"x17") SCALE: 1"=40'

Stamp:

Project Title:
WHITE RIVER RIVERFRONT ENHANCEMENTS
 20 5TH STREET
 MEEKER, CO

Sheet Title:
3RD STREET GRADING PLAN

Date:	04/07/2023
Scale:	As Shown
Drawn by:	KLX
Checked by:	MP
File #	72070

REVISIONS

Date:	By:	Note:

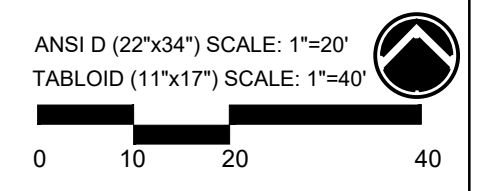
Sheet No:
8.0



PLANS FOR BID PURPOSED ONLY. NOT FOR CONSTRUCTION

LEGEND

	LANDSCAPE SCREENING AREA
	SLOPE STABILIZATION AND RESEEDING AREA
	MULCH OPEN SPACE AREA
	CRUSHER FINES PATH
	CONCRETE SIDEWALK AND RAMP
	ARMORED CONVEYANCE SWALE
	PEDESTRIAN CROSSING STRIPPING
	BOARD-ON-BOARD PRIVACY FENCE



SIGNAGE INDICATING:

- LARGE VEHICLE AND TRAILER PARKING AVAILABLE AT TOWN PARK
- PRIVATE PROPERTY LOCATIONS
- TAKE OUT LOCATION AT 10TH STREET

BANK STABILIZATION PALETTE (254 SF)
 (2) BETULA GLANDULOSA
 (5) RHUS AROMATICA
 (4) SALIX AMYGDALOIDES
 (7) SALIX EXIGUA

ARMORED CONVEYANCE SWALE WITH CLEANOUT (RIP RAP OR VEGETATED WITH GEOTEXTILE REINFORCEMENT)

CONCRETE ACCESS RAMP @ 13% SLOPE

TOE OF BANK TO BE PROTECTED WITH LARGE ROCK AND REVEGETATED AS PRESCRIBED

BANK STABILIZATION PALETTE (2357 SF)
 (42) BETULA GLANDULOSA
 (124) RHUS AROMATICA
 (83) SALIX AMYGDALOIDES
 (165) SALIX EXIGUA

DISTURBED SLOPE AREAS TO BE SEEDED WITH HIGH PLAINS/FOOTHILLS RIPARIAN SEED MIX (3435 SF)

NEW BOARD-ON-BOARD FENCE

AREA OF NEW ASPHALT

ACTIVE MAINTENANCE AREA AND FENCE TO REMAIN

ACTIVE MAINTENANCE CLEARANCE AREA

GRAVEL PATH TO MATCH EXISTING TOWN PARK PATH

STRIPED PEDESTRIAN CROSSING

WHITE RIVER



Project Title:
WHITE RIVER RIVERFRONT ENHANCEMENTS
 20 5TH STREET
 MEEKER, CO

Sheet Title:
3RD STREET LANDSCAPE PLAN

Date:	04/07/2023
Scale:	As Shown
Drawn by:	KLX
Checked by:	MP
File #	72070

REVISIONS

Date:	By:	Note:

Sheet No:
9.0



EROSION CONTROL PLAN AND CONSTRUCTION SEQUENCING
 EROSION AND SEDIMENT CONTROL METHODS FOR THE PROJECT INCLUDE STRUCTURAL AND STABILIZATION PRACTICES. STRUCTURAL PRACTICES INVOLVE THE CONSTRUCTION OF DIVERTS TO DIVERT AND LIMIT RUNOFF. STABILIZATION PRACTICES WILL BE IMPLEMENTED TO COVER EXPOSED SOIL SO THAT DISCHARGE OF SEDIMENT IS MINIMIZED. AN ADEQUATE STOCKPILE OF EROSION CONTROL MATERIALS WILL BE MAINTAINED AT THE PROJECT SITE IN THE EVENT OF AN EMERGENCY OR ROUTINE REPAIR.

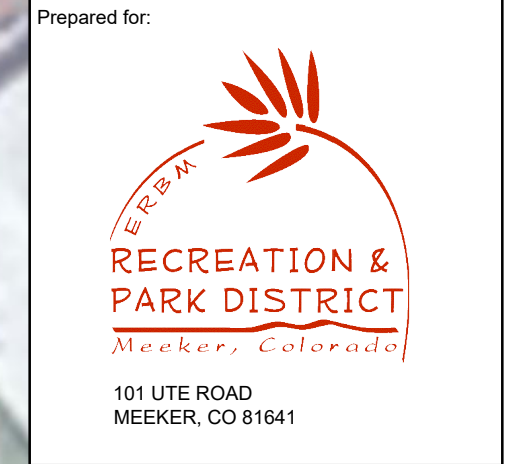
TO FURTHER MINIMIZE SEDIMENT LOSS ON THE SITE, A GENERAL CONSTRUCTION SEQUENCE PLAN HAS BEEN DEVELOPED. THE FOLLOWING ARE PROCEDURES TO BE FOLLOWED:

1. ALL VEHICLES AND EQUIPMENT BROUGHT TO THE PROJECT SITE SHALL BE CLEAN AND FREE OF WASTIVE PLANT MATERIAL.
2. AN ENVIRONMENTAL RESOURCE SPECIALIST SHALL MARK OUT RESOURCE BOUNDARIES RELATED TO WETLAND AND RIVERBANK STABILIZATION AREAS IN THE FIELD PRIOR TO CONSTRUCTION.
3. PRIOR TO ANY SITE GRADING OR SITE WORK, THE CONTRACTOR SHALL INSTALL ALL SEDIMENT AND EROSION CONTROLS AS SHOWN ON THE RESTORATION PLAN, PLUS ANY ADDITIONAL CONTROLS REQUESTED BY THE ENVIRONMENTAL RESOURCE SPECIALIST BASED ON SITE CONDITIONS TO PREVENT SEDIMENT FROM LEAVING THE SITE OR FURTHER ENCRDACHING INTO WETLANDS. THE PHASE 1 POND, OR THE WHITE RIVER.
4. THE CONTRACTOR FOREMAN SHALL BE DESIGNATED AS THE ON-SITE INDIVIDUAL RESPONSIBLE FOR THE DAILY MONITORING AND MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROLS. ANY BREACH OR FAILURE IN SEDIMENT CONTROLS SHALL BE IMMEDIATELY REPAIRED OR REPLACED. SEDIMENT BUILD-UP BEHIND ANY EROSION CONTROL BARRIER SHALL BE REMOVED WHENEVER SEDIMENT HAS ACCUMULATED TO 3-INCHES IN DEPTH.
5. THE CONTRACTOR SHALL INCORPORATE PERMANENT EROSION CONTROL FEATURES, PERMANENT SLOPE STABILIZATION, AND VEGETATION INTO THE PROJECT PLANS AT THE EARLIEST PRACTICAL TIME TO MINIMIZE THE NEED FOR TEMPORARY CONTROLS.
6. ANY AREA DISTURBED WITHIN THE LIMIT OF BANK WORK IS TO BE SEEDED AS NOTED IN THE LANDSCAPE PLAN UNLESS SPECIFIED OTHERWISE. THE GROUND SURFACE SHALL BE SCARIFIED PRIOR TO SEEDING. AFTER SEEDING, STRAW MULCH SHALL BE APPLIED TO THE GROUND SURFACE AT A RATE OF 2,500 LBS/ACRE. SEEDED AND/OR PLANTED SLOPES GREATER THAN 3:1 SHALL BE COVERED WITH A BIODEGRADABLE EROSION CONTROL BLANKET SPECIFIED IN THE PLANS.
7. THE CONTRACTOR SHALL MAINTAIN TEMPORARY EROSION AND SEDIMENTATION CONTROL SYSTEMS IN GOOD CONDITION UNTIL THE SITE IS STABLE AS VERIFIED BY THE ENVIRONMENTAL RESOURCE SPECIALIST. ONCE THE SITE IS STABLE, THE SEDIMENT AND EROSION CONTROLS MAY BE REMOVED UNDER THE DIRECTION OF THE ENVIRONMENTAL RESOURCE SPECIALIST.
8. SHOULD ANY EROSION CONTROL BLANKET BE UTILIZED, THEY SHALL BE COMPRISED OF NON-SYNTHETIC MATERIALS (I.E. JUTE MATTING). NO EROSION CONTROL BLANKETS COMPOSED OF PLASTIC-BASED MATERIALS SHALL BE USED.

BANK RESTORATION NOTES

9. ERODED PORTIONS OF RIVERBANK ARE TO BE RESTORED WITH 12" BIODEGRADABLE SOIL LIFTS AS SHOWN IN THE DETAILS. LIFTS WILL BE INSTALLED BY HAND AND ASSOCIATED MINOR EARTHWORK WILL ALSO BE COMPLETED BY HAND OR WITH LIGHT MACHINERY. UPGRADIENT AREAS ADJACENT TO BANK STABILIZATION WORK SHALL TO BE REVEGETATED, AS NEEDED.
10. A FRAGILE "PLANTING BED" CONSISTENCY SHALL BE PREPARED. ANY COMPACTION CAUSED BY EXCAVATION SHALL BE ALLEVATED.
11. SOIL LIFTS ARE TO BE PLANTED WITH NATIVE WOODY SPECIES, THEN SEEDED WITH NATIVE SEED (SEE PLANTING SCHEDULE). PLANT SUBSTITUTIONS DUE TO COMMERCIAL AVAILABILITY OR HYDROLOGIC CONDITIONS MUST BE APPROVED BY THE ENVIRONMENTAL RESOURCE SPECIALIST.
12. THE EROSION CONTROL BARRIER UPGRADIENT OF BANKWORK OR BETWEEN THE RIVER AND RESTORATION AREAS SHALL BE REMOVED UPON STABILIZATION OF THE RESTORATION AREAS AND THE AREA RAKED TO ELIMINATE ANY SEED THAT MAY BE PRESENT. ANY BARE SOIL THAT RESULTS FROM THE REMOVAL OF THE EROSION CONTROLS SHALL BE SEEDED WITH THE SPECIFIED SEED MIX. ALL STAKES AND TWINE SHALL BE REMOVED.

Prepared by:
SWCA
 ENVIRONMENTAL CONSULTANTS
 SWCA Environmental Consultants
 1063 W Horsetooth Rd
 Building B, Suite 200
 Fort Collins, CO 80526
 (970) 237 4096
 www.swca.com



LEGEND

---	PROPERTY LINE
---	10TH STREET RIGHT-OF-WAY
[Pattern]	COMPACTED GRAVEL PARKING
[Pattern]	COMPACTED GRAVEL PATH
[Pattern]	RIPRAP STREAM BANK STABILIZATION
[Pattern]	ADJACENT PATHS TO WATER ST AND 8TH STREET (NO ACTION PROPOSED)

ANSI D (22"x34") SCALE: 1"=20'
 TABLOID (11"x17") SCALE: 1"=40'

Stamp:

Project Title:
WHITE RIVER RIVERFRONT ENHANCEMENTS
 20 5TH STREET
 MEEKER, CO

Sheet Title:
10TH STREET GRADING PLAN

Date:	04/07/2023
Scale:	As Shown
Drawn by:	KLX
Checked by:	MP
File #	72070

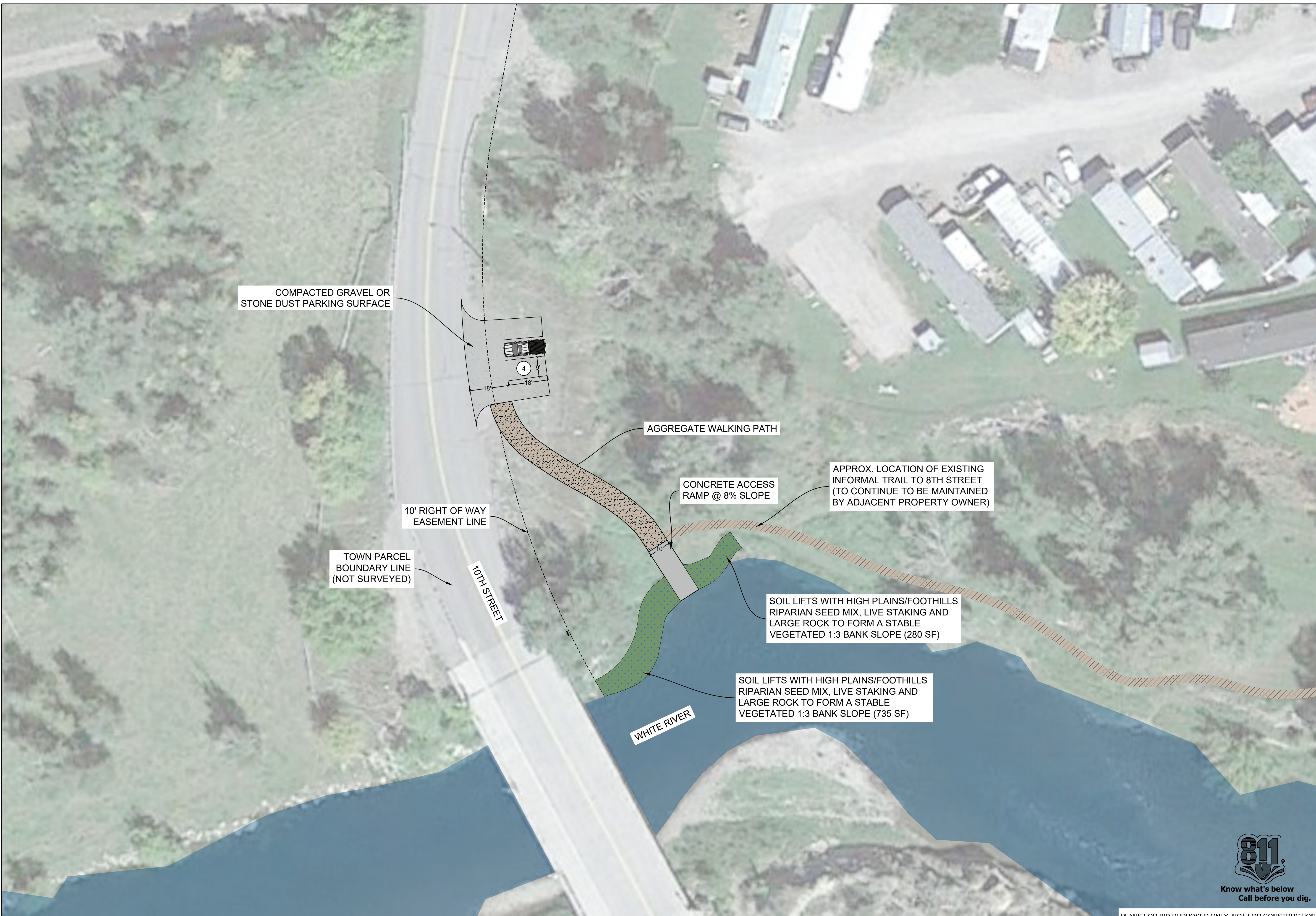
REVISIONS

Date:	By:	Note:


Sheet No:
 10.0



PLANS FOR BID PURPOSED ONLY. NOT FOR CONSTRUCTION

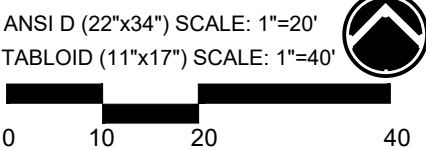


Prepared by:
SWCA
 ENVIRONMENTAL CONSULTANTS
 SWCA Environmental Consultants
 1063 W Horsetooth Rd
 Building B, Suite 200
 Fort Collins, CO 80526
 (970) 237-4096
 www.swca.com

Prepared for:

RECREATION & PARK DISTRICT
 Meeker, Colorado
 101 UTE ROAD
 MEEKER, CO 81641

LEGEND

---	PROPERTY LINE
----	10TH STREET RIGHT-OF-WAY
[Pattern]	COMPACTED GRAVEL PARKING
[Pattern]	COMPACTED GRAVEL PATH
[Pattern]	RIPRAP STREAM BANK STABILIZATION
[Pattern]	ADJACENT PATHS TO WATER ST AND 8TH STREET (NO ACTION PROPOSED)

ANSI D (22"x34") SCALE: 1"=20'
 TABLOID (11"x17") SCALE: 1"=40'


Stamp:

Project Title:
WHITE RIVER RIVERFRONT ENHANCEMENTS
 20 5TH STREET
 MEEKER, CO

Sheet Title:
10TH STREET LANDSCAPE PLAN

Date:	04/07/2023
Scale:	As Shown
Drawn by:	KLX
Checked by:	MP
File #	72070

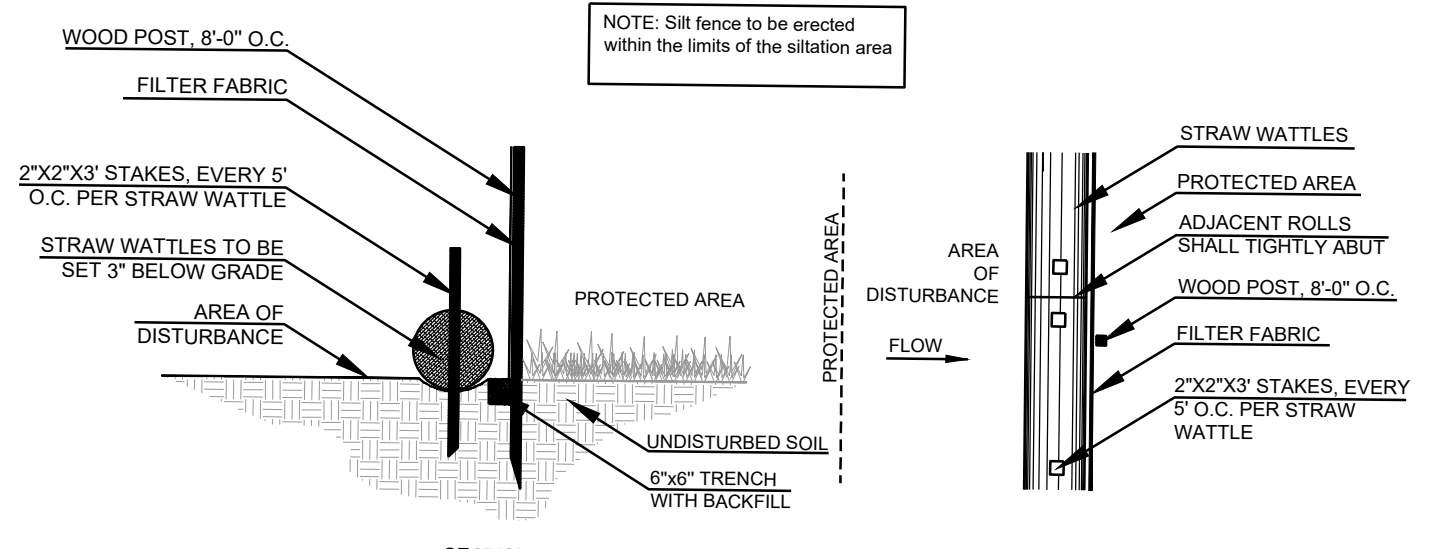
REVISIONS

Date:	By:	Note:

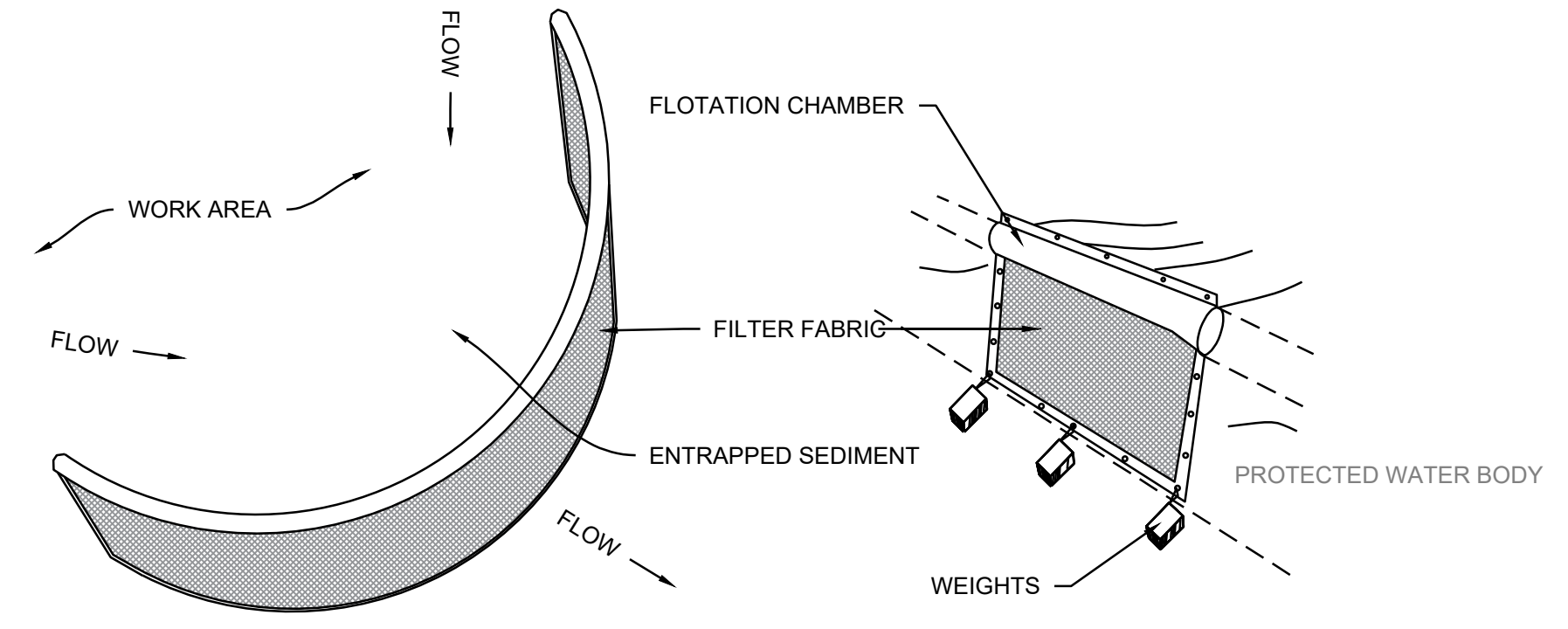
Sheet No:
 11.0



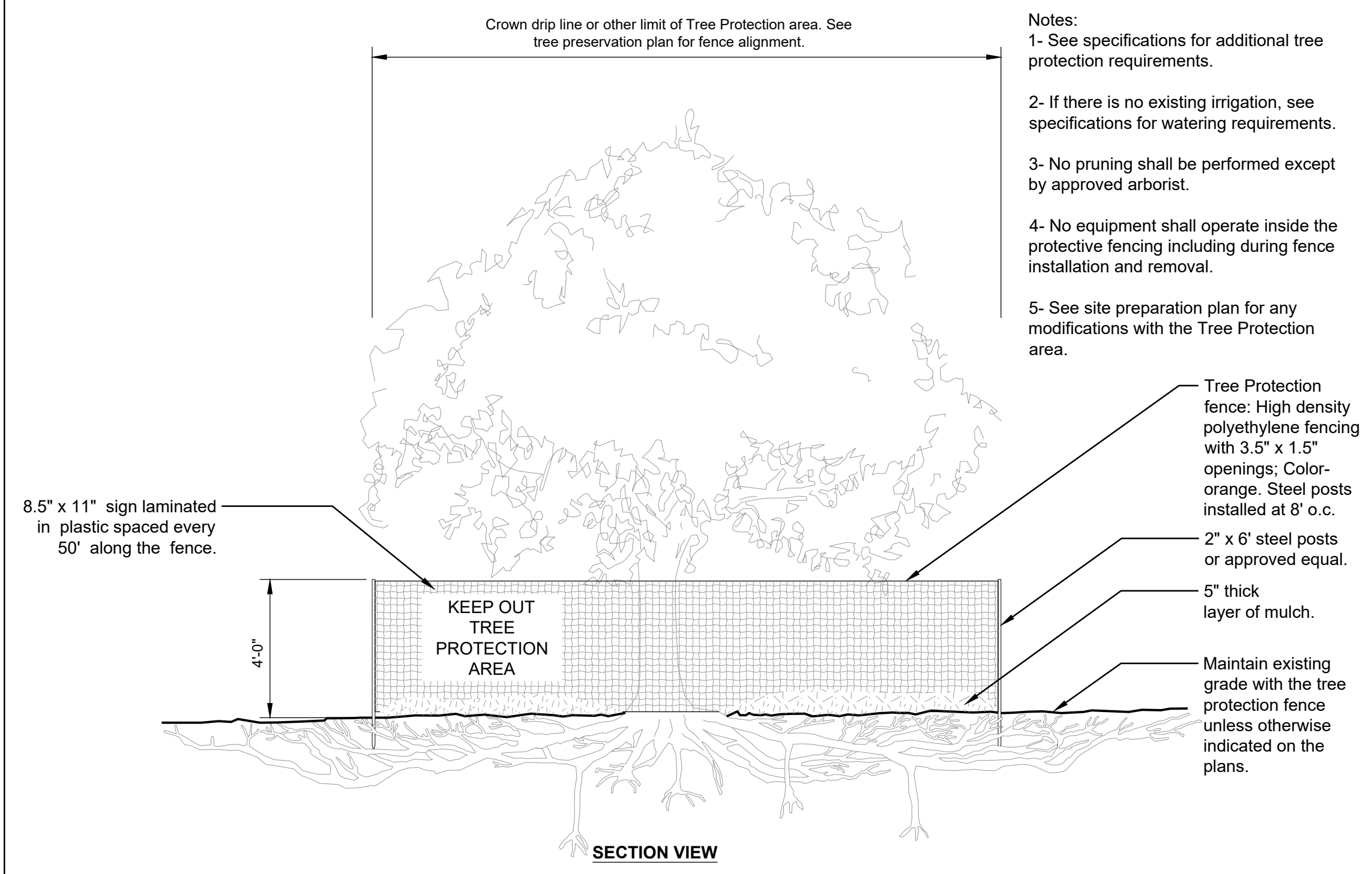
PLANS FOR BID PURPOSED ONLY. NOT FOR CONSTRUCTION



1 EROSION CONTROL BARRIER - SILTFENCE WITH STRAW WATTLES
Scale: NTS



2 TURBIDITY CURTAIN DETAIL FOR IN-WATER SEDIMENT CONTROL (TYP.)
Scale: NTS



- Notes:
- 1- See specifications for additional tree protection requirements.
 - 2- If there is no existing irrigation, see specifications for watering requirements.
 - 3- No pruning shall be performed except by approved arborist.
 - 4- No equipment shall operate inside the protective fencing including during fence installation and removal.
 - 5- See site preparation plan for any modifications with the Tree Protection area.

3 TREE PROTECTION

Prepared by:
SWCA
ENVIRONMENTAL CONSULTANTS
SWCA Environmental Consultants
1063 W Horsetooth Rd
Building B, Suite 200
Fort Collins, CO 80526
(970) 237-4096
www.swca.com

Prepared for:

RECREATION & PARK DISTRICT
Meeker, Colorado
101 UTE ROAD
MEEKER, CO 81641

LEGEND

Stamp:

Project Title:
WHITE RIVER RIVERFRONT ENHANCEMENTS
20 5TH STREET
MEEKER, CO

Sheet Title:
EROSION CONTROL DETAILS

Date:	04/07/2023
Scale:	As Shown
Drawn by:	KLX
Checked by:	MP
File #	72070

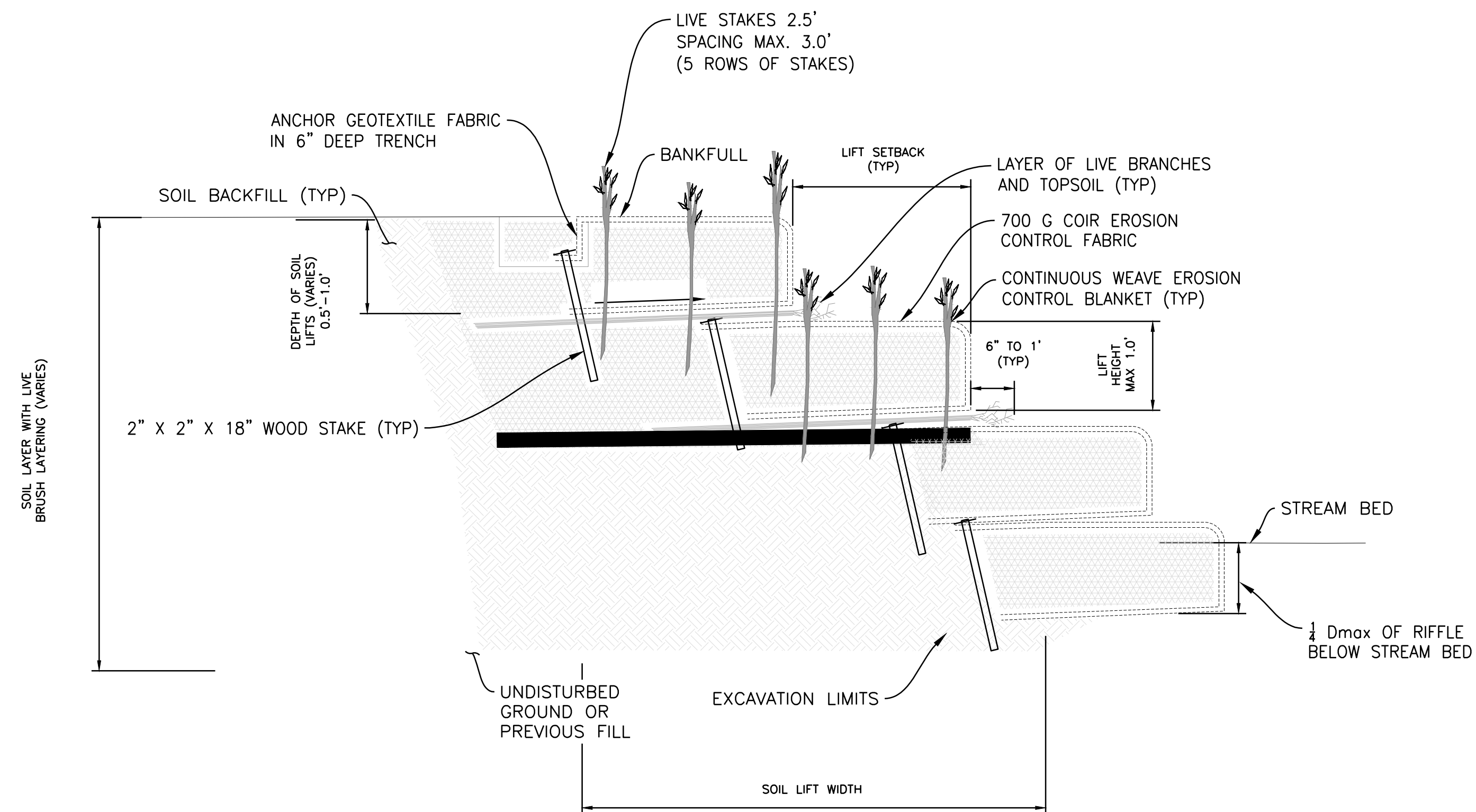
REVISIONS		
Date:	By:	Note:

Sheet No:
12.0



NOTES:

1. THE SOIL BACKFILL USED FOR LIFTS AND TOPSOIL USED FOR LAYERING WITH THE LIVE BRANCHES SHALL BE FREE OF ANY LARGE ROOTS OR WOODY DEBRIS AND SHALL GENERALLY BE FREE FROM ANY GRAVEL OR COBBLE MATERIAL.
2. SOIL BACKFILL SHALL BE COMPACTED SUCH THAT FUTURE SETTLING WILL BE KEPT TO A MINIMUM; YET, NOT SUCH THAT THE UNDERLYING SOIL LIFT IS DISPLACED OR DAMAGED.
3. THE TOP OF THE BACKFILL FOR THE FIRST LIFT SHALL BE SLOPED AT APPROXIMATELY 5% AWAY FROM THE STREAM.
4. PLACE A LAYER OF TOPSOIL AND LIVE BRANCHES ON TOP OF EACH SOIL LIFT SUCH THAT APPROXIMATELY 6 INCHES TO 1 FOOT OF EACH LIVE BRANCH WILL BE EXPOSED AND THE REMAINDER (2' TO 4') OF EACH LIVE BRANCH WILL BE COVERED BY THE NEXT SOIL LIFT.
5. LIVE BRANCHES SHALL BE OF THE SPECIES SPECIFIED FOR LIVE STAKES OR APPROVED BY THE ENGINEER AND SHALL EXCLUDE INVASIVE SPECIES.
6. PLACE A LAYER OF 6.5 FEET WIDE GEOCOIR DEKOWE 700 EROSION CONTROL BLANKET, OR EQUIVALENT, ON TOP OF THE TOPSOIL AND LIVE BRANCHES SUCH THAT 2.5 FEET OF THE BLANKET WILL BE BURIED BELOW THE NEXT SOIL LIFT. ALLOW THE REMAINING 4.0 FEET OF BLANKET TO HANG OVER THE PRECEDING SOIL LIFT OR COIR FIBER LOGS.
7. PLACE A LAYER OF 6.5 FEET WIDE NON-WOVEN COIR MATTING OVER THE EROSION CONTROL BLANKET TO THE SAME LIMITS.
8. SOIL CAN BE COMPACTED BY STACKING A PIECE OF 2 X 6 SAWN LUMBER EDGWAYS UP TO THE LIFT HEIGHT SPECIFIED IN THE STRUCTURE TABLE AND SECURING WITH WOODEN STAKES TO PROVIDE A RIGID BACKSTOP FOR COMPACTING SOIL LIFT.
9. PLACE SOIL BACKFILL UP TO THE LIFT HEIGHT SPECIFIED OF NO GREATER THAN 1.0 FT BEING CAREFUL NOT TO PUSH/PULL OR TEAR THE FABRIC PREVIOUSLY PLACED.
10. THE TOP OF THE SOIL BACKFILL SHALL BE FLAT WITHIN THE LIFT SETBACK DISTANCE SPECIFIED IN THE STRUCTURE TABLE. BEYOND THE LIFT SETBACK DISTANCE, THE SOIL BACKFILL SHALL BE SLOPED AT AN APPROXIMATE 5% SLOPE AWAY FROM THE STREAM.
11. TOP DRESS THE SOIL LIFT WITH TOPSOIL FROM THE FACE OF THE SOIL LIFT BACK INTO THE FLOODPLAIN AT LEAST 4 FT.
12. REMOVE THE SAWN LUMBER AND WOODEN STAKES FROM THE FACE OF THE SOIL LIFT AND WRAP THE FACE AND TOP OF THE SOIL LIFT USING THE WOVEN AND NON-WOVEN COIR MATTING HANGING OVER THE PREVIOUS LIFT/COIR FIBER LOGS.
13. THE EROSION CONTROL FABRIC SHALL BE PULLED AS TIGHT AS POSSIBLE WITHOUT TEARING OR EXCESSIVELY DISTORTING THE FABRIC.
14. SECURE THE EROSION CONTROL AND NON-WOVEN MATTING IN PLACE BY STAKING THE END OF THE EROSION CONTROL FABRIC WITH WOODEN STAKES ON 1.5-FOOT CENTERS.
15. BEGIN CONSTRUCTION OF THE NEXT SOIL LIFT BY REPEATING THE PREVIOUS NOTES STARTING WITH NOTE 6.
16. THE OVERALL SLOPE CREATED BY THE LIVE BRUSH LAYERING SHALL MATCH THE PROPOSED CROSS SECTION SHAPE FOR THE OUTER BANK OF THE TYPICAL POOL CROSS-SECTION FOR EACH REACH.
17. THE COIR BLANKETS AND GEOTEXTILE FABRIC USED FOR THE UPPER MOST SOIL LIFT WILL BE SECURED WITHIN A 6 INCH DEEP TRENCH AS SHOWN IN DETAIL.
18. THE SURFACE OF THIS STRUCTURE SHALL BE FINISHED TO A SMOOTH AND COMPACT SURFACE IN ACCORDANCE WITH THE LINES, GRADES, AND CROSS-SECTIONS OR ELEVATIONS SHOWN ON THE DRAWINGS. THE DEGREE OF FINISH FOR ELEVATIONS SHALL BE WITHIN 0.1 FT OF THE GRADES AND ELEVATIONS INDICATED OR APPROVED BY THE ENGINEER.
19. RE-DRESSING OF CHANNEL AND BANKFULL BENCH/FLOODPLAIN WILL LIKELY BE REQUIRED FOLLOWING INSTALLATION OF IN-STREAM STRUCTURES AND SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
20. THE LOWER BANK STABILIZATION IS CRITICAL TO THE DESIGN INTENT OF THIS PROJECT. VARIANCE FROM SOIL LIFT STABILIZATION WILL ONLY BE CONSIDERED IF SUITABLE FILL MATERIAL IS NOT AVAILABLE ONSITE.



Stamp:

Project Title:
WHITE RIVER RIVERFRONT ENHANCEMENTS
 20 5TH STREET
 MEEKER, CO

Sheet Title:
SOIL LIFT

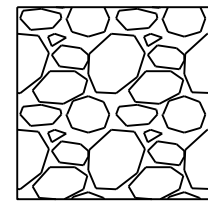
Date:	04/07/2023
Scale:	As Shown
Drawn by:	KLX
Checked by:	MP
File #	72070

REVISIONS		
Date:	By:	Note:

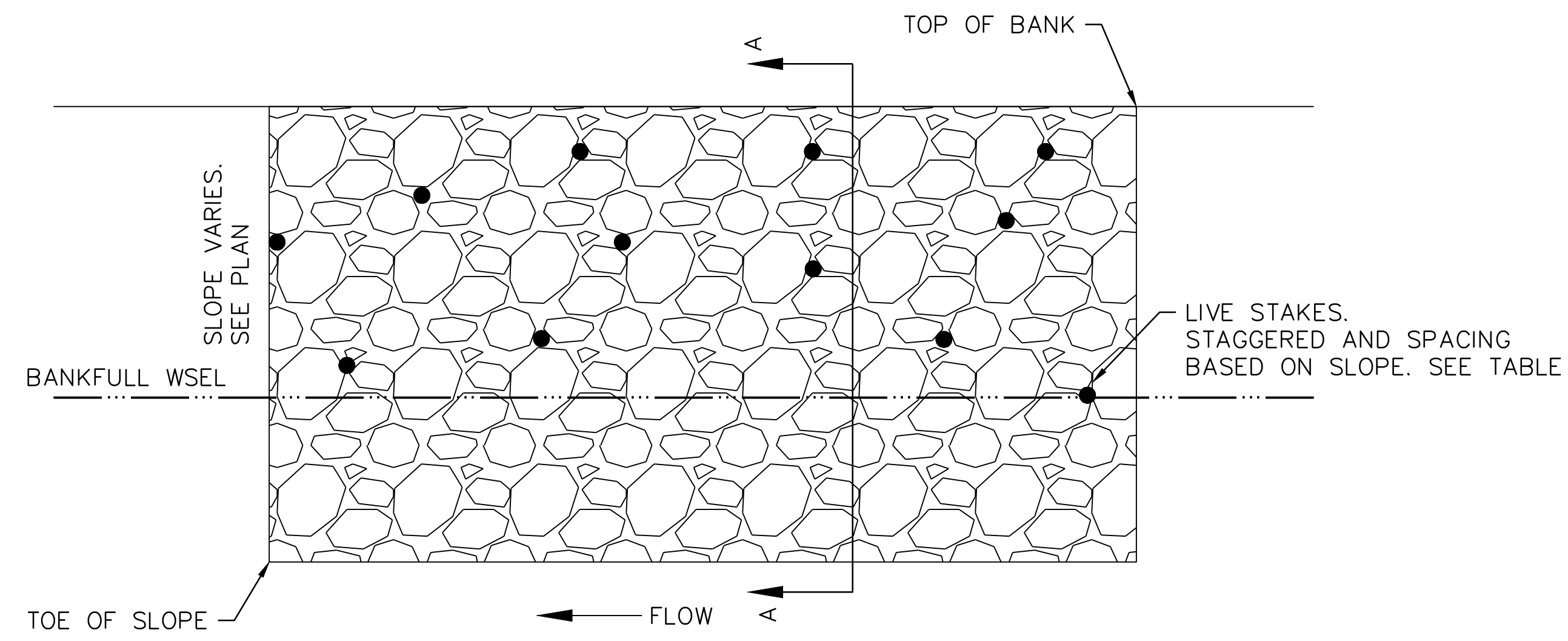
Sheet No:
9.0



**Know what's below
 Call before you dig.**



PLAN-SYMBOL



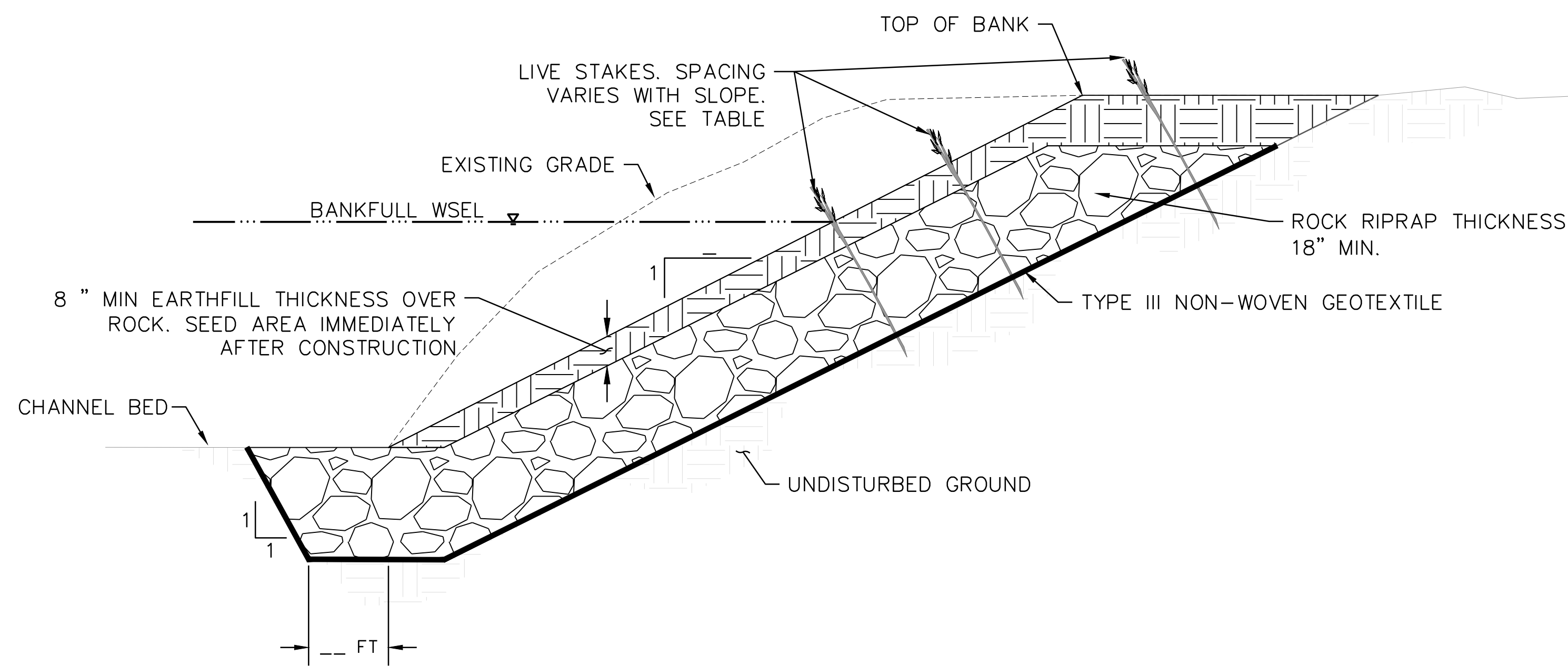
PLAN VIEW

LIVE STAKE SPACING TABLE	
SLOPE H:V	SPACING ON-CENTER IN FEET
1.5:1	1.5 TO 2.5
2:1	1.5 TO 3
3:1	3 TO 5
FLATTER	AS DIRECTED BY ENGINEER

NOTES

1. VEGETATED RIPRAP IS A BANK STABILIZATION PRACTICE THAT PROTECTS A STREAMBANK FROM EROSION, REDUCES LOCAL FLOW VELOCITIES, TRAPS SEDIMENT DURING HIGH FLOWS, AND ENHANCES THE ESTABLISHMENT AND GROWTH OF NATIVE VEGETATION USING LIVE BRANCHES AND CUTTINGS ANCHORED TO THE SLOPES.
2. RIPRAP SHALL BE KEYED INTO THE STREAM BED TO AN ELEVATION BELOW THE COMPUTED SCOUR DEPTH TO AVOID UNDERMINING AT THE TOE OF SLOPE.
3. LIVE STAKES SHALL BE IN CONTACT WITH THE SOIL BELOW THE RIPRAP AND ANY GEOTEXTILE PRESENT BELOW THE RIPRAP A MINIMUM OF 12 INCHES, PLANTING OF CUTTINGS DURING THE DORMANT SEASON OF THE PLANT SPECIES PREFERRED.
4. LIVE STAKES SHALL BE 0.5 INCHES TO 2 INCHES IN DIAMETER AND GENERALLY 3 FEET LONG WITH SIDE BRANCHES CLEARLY REMOVED.
5. THE BOTTOM (BASAL) END OF LIVE STAKES SHALL BE CLEANLY CUT AT A 45 DEGREE ANGLE. THE TOP OF ALL LIVE STAKES SHALL BE CUT SQUARE (FLAT). ALL PLANTINGS SHALL BE INSTALLED PERPENDICULAR TO THE SLOPE.
6. LIVE STAKES FOR VEGETATED RIPRAP MAY BE INSTALLED THE DAY THEY ARE HARVESTED IF WATERED. SOAKING FOR A MINIMUM 24 HOURS IS REQUIRED WHEN PLANTING IS DELAYED.
7. AT LEAST TWO BUDS OR BUD SCARS SHALL BE PRESENT ON THE STAKE WHEN PLANTED.
8. VOIDS IN RIPRAP WHERE LIVE STAKES ARE SHALL BE BACKFILLED WITH A WATER AND SOIL SLURRY MIXTURE TO A MINIMUM DEPTH OF HALF THE RIPRAP LAYER THICKNESS.
9. OTHER VARIATIONS MAY BE USED SUCH AS RIPRAP WITH BRUSH LAYERING AND POLE PLANTING, BENT POLE (HORIZONTAL) METHOD, OR WILLOW BUNDLE METHOD.

GRADATION OF ROCK RIPRAP		
PERCENT PASSING	STONE SIZE (FT)	SIZE (INCHES)
70-100	1.75	21
50-70	1.5	18
35-50	1	12
2-10	0.33	4



SECTION A-A

DETAIL - VEGETATED RIPRAP
NOT TO SCALE

Stamp:

Project Title:
WHITE RIVER RIVERFRONT ENHANCEMENTS
20 5TH STREET
MEEKER, CO

Sheet Title:
VEGETATED RIPRAP

Date: 04/07/2023
Scale: As Shown
Drawn by: KLX
Checked by: MP
File #: 72070

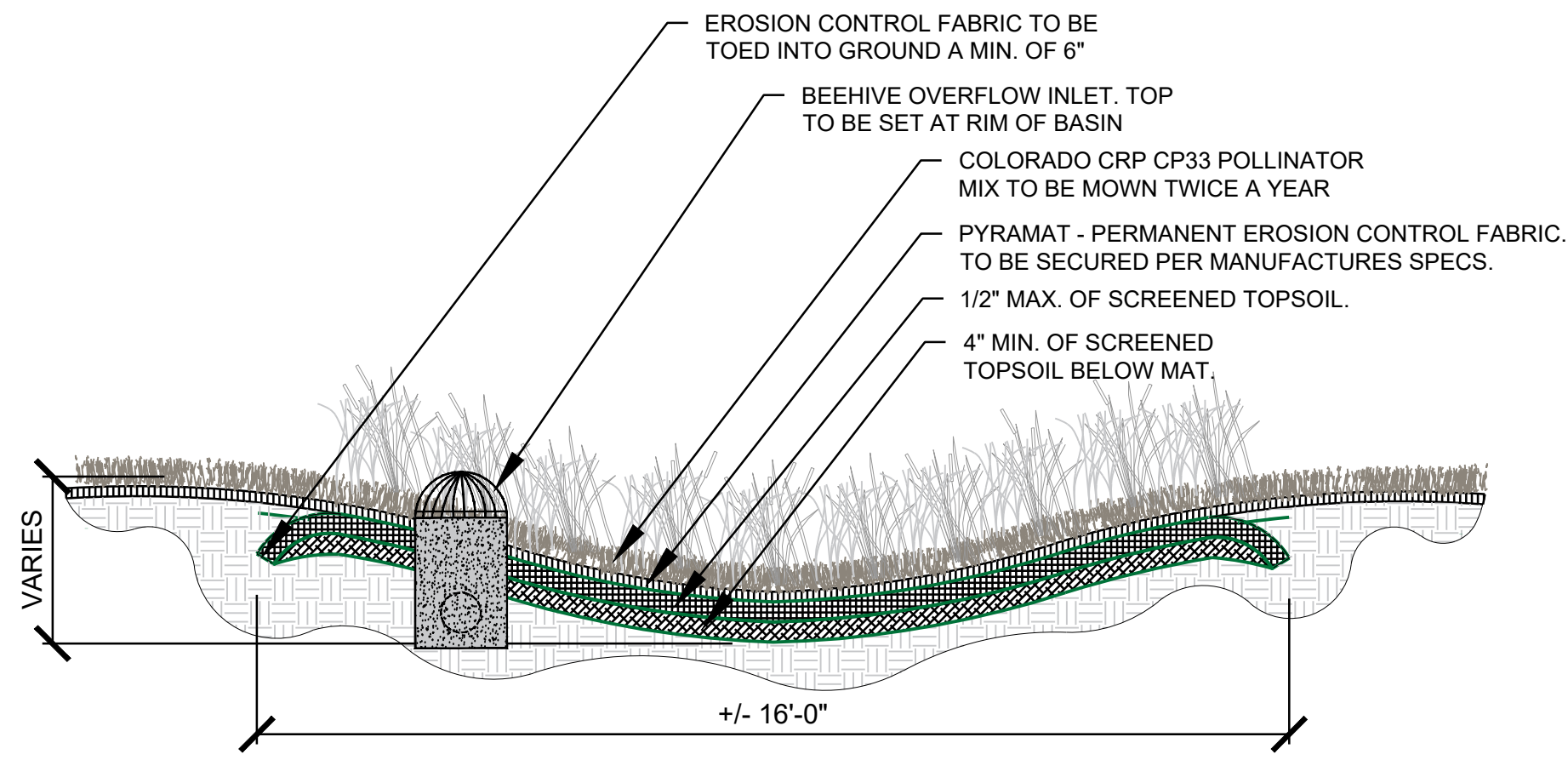
REVISIONS

Date:	By:	Note:

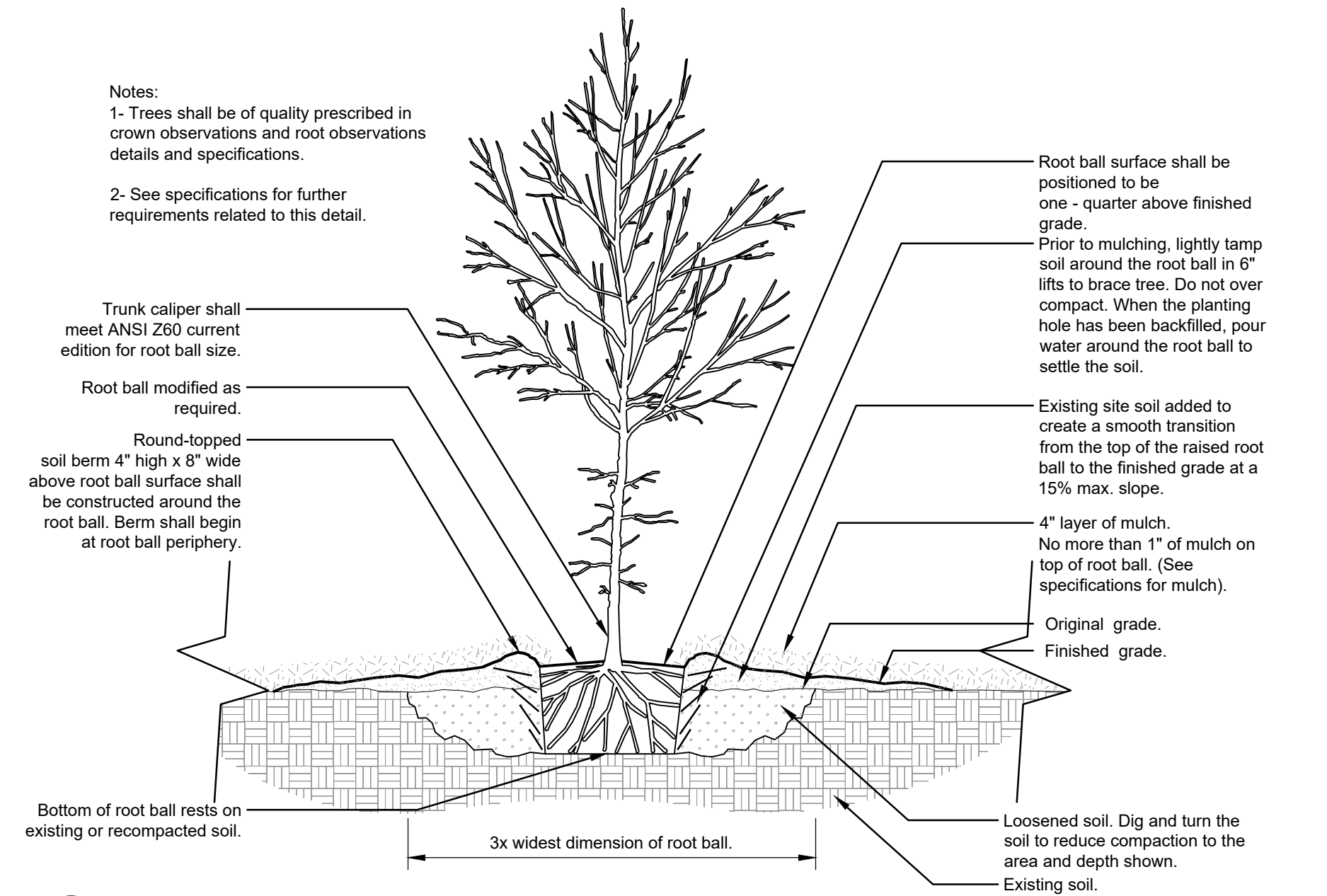
Sheet No:



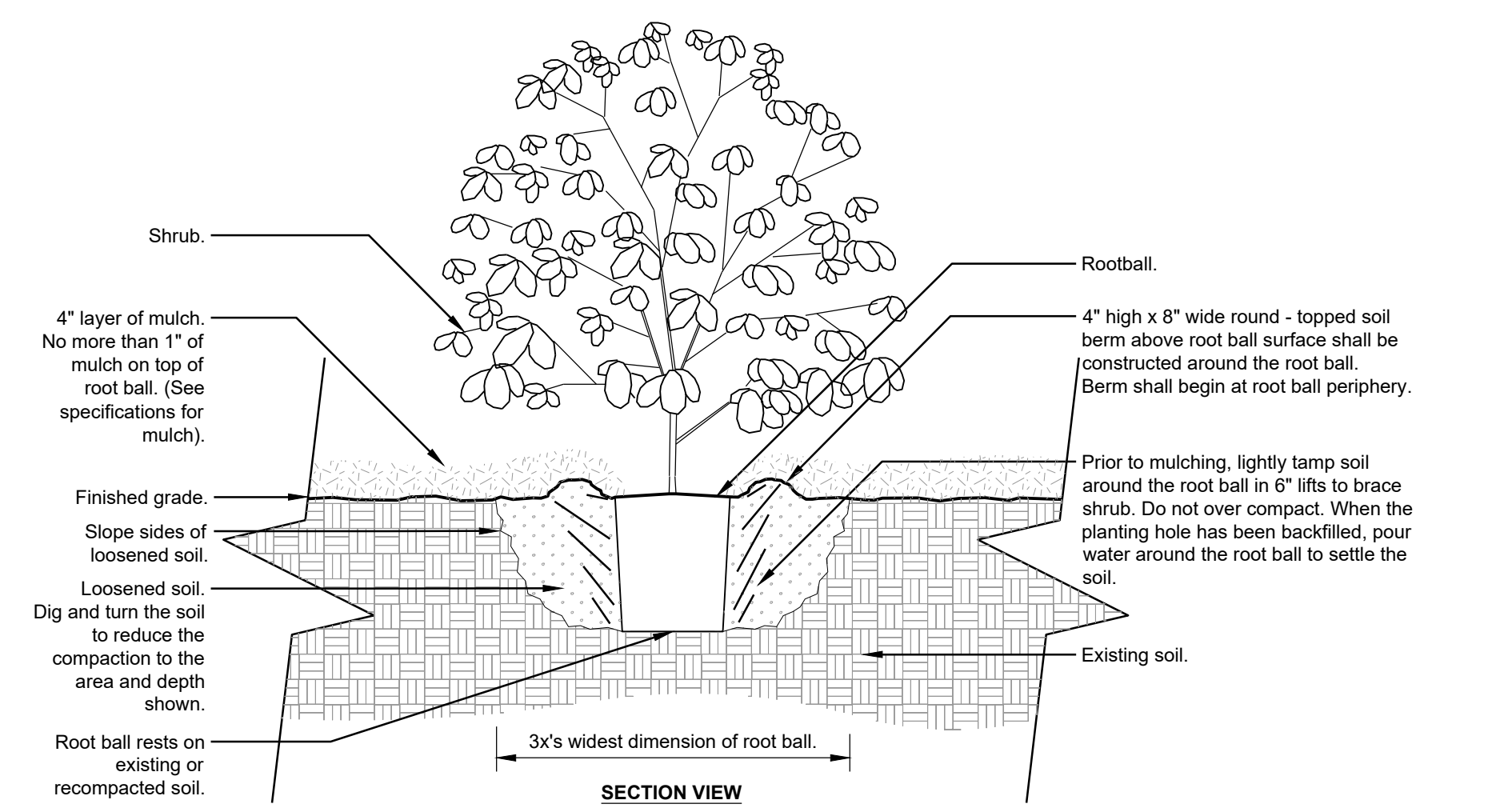
Know what's below
Call before you dig.



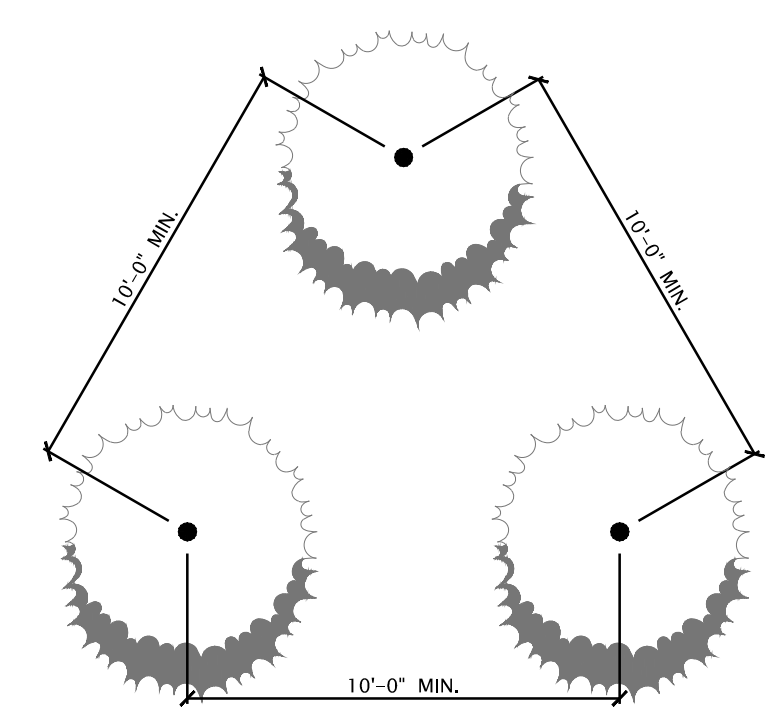
1 VEGETATED DETENTION BASIN WITH TURF REINFORCEMENT MATTING (TYP.)
Scale: NTS



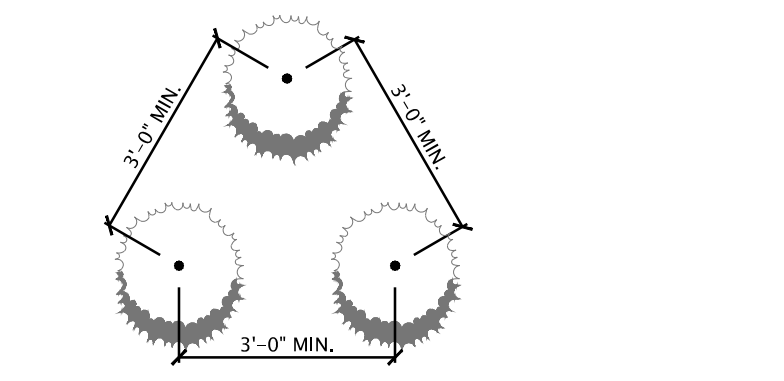
4 TREE PLANTING DETAIL
Scale: NTS



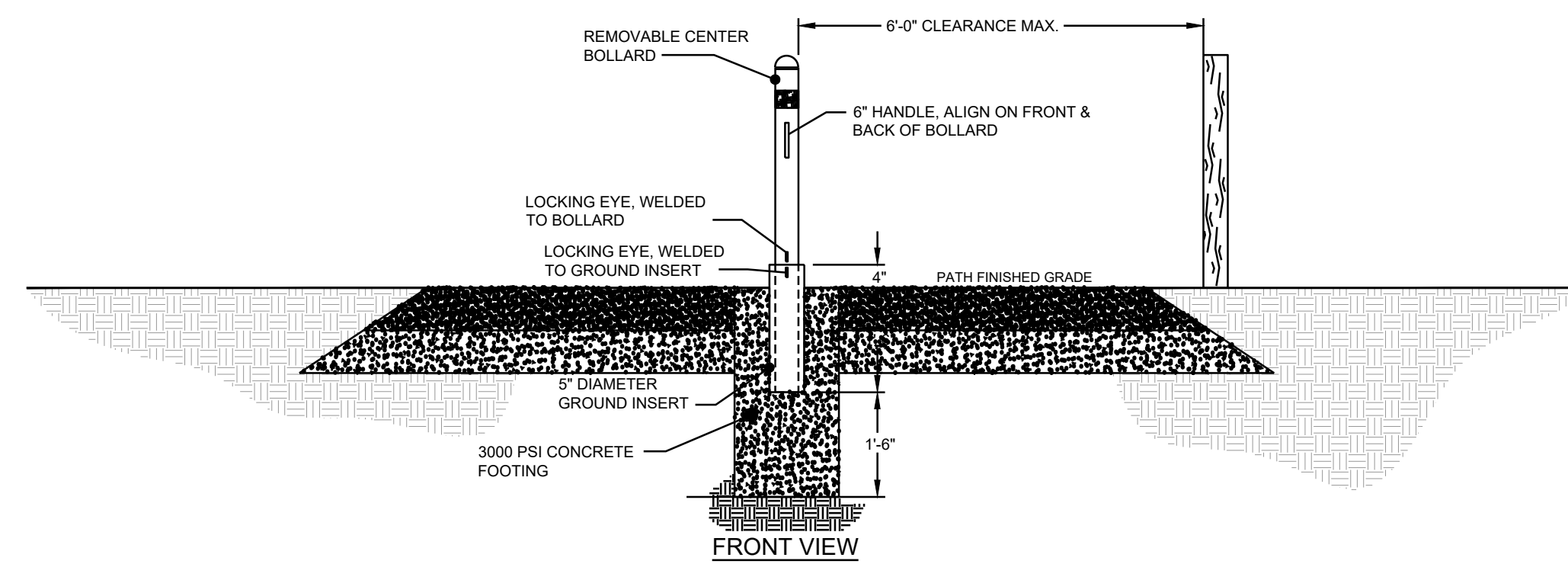
6 SHRUB PLANTING DETAIL
Scale: NTS



5 TREE SPACING (TYP.)
Scale: NTS



7 SCRUB SPACING (TYP.)
Scale: NTS



8 REMOVABLE BOLLARD DETAIL
Scale: NTS

NOTE:
1. ALIGN BOLLARD PIPE & GROUND INSERT SO EYES ARE LOCATED AT BACK & FRONT OF BOLLARD, NOT STICKING OUT INTO TRAVEL WAY.
2. ALL METAL SHALL BE GALVANIZED PAINT, ONE COAT METAL PRIMER AND TWO COATS BENJAMIN MOORE HUNTER GREEN METAL ENAMEL OR EQUAL.

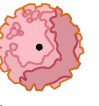
















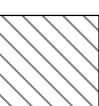

Date:	04/07/2023
Scale:	As Shown
Drawn by:	KLX
Checked by:	MP
File #	72070

REVISIONS		
Date:	By:	Note:



Know what's below
Call before you dig.

PLANT SCHEDULE

DECIDUOUS TREES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	
	AME GRA	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	2" CAL.	B&B	6	
	GLE IM2	GLEDITSIA TRIACANTHOS INERMIS 'IMPCOLE' TM	IMPERIAL HONEYLOCUST	2.5" CAL.	B&B	7	
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	
	AME RGN	AMELANCHIER ALNIFOLIA 'REGENT'	REGENT SERVICEBERRY	5 GAL.	POT	3	
	CAR CLA	CARYOPTERIS X CLANDONENSIS 'BLUE MIST'	BLUE MIST BLUEBEARD	5 GAL.	POT	6	
	CHR NAU	CHRYSOTHAMNUS NAUSEOSUS NAUCEOSUS	DWARF BLUE RABBITBRUSH	5 GAL.	POT	6	
	COR ISA	CORNUS SERICEA 'ISANTI'	ISANTI RED TWIG DOGWOOD	5 GAL.	POT	11	
	JUN BL3	JUNIPERUS HORIZONTALIS 'BLUE CHIP'	BLUE CHIP JUNIPER	5 GAL.	POT	6	
	POT RUC	POTENTILLA FRUTICOSA 'PURDOMNII'	FOREVER GOLD CINQUEFOIL	5 GAL.	POT	18	
	PRU BES	PRUNUS BESSEYI	SAND CHERRY	5 GAL.	POT	1	
	RHU GRO	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	5 GAL.	POT	67	
	RHU TIG	RHUS TYPHINA 'TIGER EYES'	TIGER EYES SUMAC	5 GAL.	POT	8	
	RIB AUR	RIBES AUREUM	GOLDEN CURRANT	5 GAL.	POT	1	
	YUC HAR	YUCCA HARRIMANIAE	HARRIMAN'S YUCCA	5 GAL.	POT	15	
PERENNIALS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	
	ASC TUB	ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	1 GAL.	POT	14	
	GAI ARI	GAILLARDIA ARISTATA	COMMON GAILLARDIA	1 GAL.	POT	12	
	PEN PEN	PENSTEMON EATONII	FIRECRACKER PENSTEMON	5" DEEP POT	POT	34	
	STA PIN	STANLEYA PINNATA	PRINCE'S PLUME	5 GAL.		9	
SHRUB AREAS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING	QTY
	BG	BANK STABILIZATION PALETTE					2,836 SF
	RA	BETULA GLANDULOSA	RESIN BIRCH	LIVE STAKES		30" @ 36" o.c.	99
	SA	RHUS AROMATICA	FRAGRANT SUMAC	LIVE STAKES		20" @ 36" o.c.	66
	SE	SALIX AMYGDALOIDES	PEACH LEAF WILLOW	LIVE STAKES		10" @ 36" o.c.	33
	SE	SALIX EXIGUA	NARROWLEAF WILLOW	LIVE STAKES		40" @ 36" o.c.	131
GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING	QTY
	AMS JN2	AMSONIA JONESII	JONES' BLUESTAR	1 GAL.	POT	18" o.c.	33

HIGH PLAINS/FOOTHILLS RIPARIAN SEED MIX (Range: up to 7,000' el.)

Common name	Genus, species	% of seed mix
N=native, I=introduced		
Big bluestem	N <i>Andropogon gerardii</i>	15.0
Canada Wildrye	N <i>Elymus canadensis</i>	25.0
Tufted Hairgrass	N <i>Deschampsia cespitosa</i>	20.0
Switchgrass	N <i>Panicum virgatum</i>	15.0
Indian Grass	N <i>Sorghastrum nutans</i>	15.0
Baltic Rush	N <i>Juncus balticus</i>	5.0
Spikerush	N <i>Eleocharis palustris</i>	2.5
Alkali Sacaton	N <i>Sporobolus airoides</i>	2.5

Rate: 8oz. Per 1,000 sq.ft.
*Seed matrix provided by Western Native Seed

2 HIGH PLAINS/FOOTHILLS RIPARIAN SEED MIX (Range: up to 7,000' el.)
Scale: NTS

HIGH PLAINS/FOOTHILLS WILDFLOWER SEED MIX (Range: 4,500'-7,000' el.)

Common name	Genus, species	% of seed mix
N=native, I=introduced		
Rocky Mountain Beeplan	N <i>Cleome serrulata</i>	10.0
Purple Prairie Clover	N <i>Dalea purpurea</i>	10.0
Blanketflower	N <i>Gaillardia aristata</i>	10.0
Dotted Gayfeather	N <i>Liatris punctata</i>	10.0
Blue Flax	N <i>Linum lewisii</i>	10.0
Wild Bergamot	N <i>Monarda fistulosa</i>	10.0
Prairie Coneflower	N <i>Ratibida columnifera</i>	10.0
Blue Aster	N <i>Symphotrichum laeve</i>	10.0
Rocky Mt Penstemon	N <i>Penstemon strictus</i>	4.0
Blackeyed Susan	N <i>Rudbeckia hirta</i>	5.0
Sulfurflower	N <i>Eriogonum umbellatum</i>	3.0
Showy Milkweed	N <i>Asclepias speciosa</i>	3.0
Foothills Sunflower	N <i>Helianthus pumilus</i>	2.0
Scarlet Gilia	N <i>Ipomopsis aggregata</i>	1.0
Pagoda Penstemon	N <i>Penstemon angustifolius</i>	1.0
Sawsepal Penstemon	N <i>Penstemon glaber alpinus</i>	1.0

Rate: 8oz. Per 1,000 sq.ft.
*Seed matrix provided by Western Native Seed

3 HIGH PLAINS/FOOTHILLS WILDFLOWER SEED MIX (Range: 4,500'-7,000' el.)
Scale: NTS

HIGH PLAINS/FOOTHILLS WET MEADOW SEED MIX (Range: up to 7,000' el.)

Common name	Genus, species	% of seed mix
N=native, I=introduced		
Alkali Bulrush	N <i>bolboschoenus maritimus</i>	15.0
Canada Wildrye	N <i>elymus canadensis</i>	15.0
Switchgrass	N <i>panicum virgatum</i>	15.0
Indian Grass	N <i>sorghastrum nutans</i>	12.0
Prairie Cordgrass	N <i>spartina pectinata</i>	7.0
Nebraska Sedge	N <i>carex nebrascensis</i>	6.0
Spikerush	N <i>eleocharis palustris</i>	6.0
Hard Stem Bulrush	N <i>schoenoplectus acutus</i>	6.0
Soft Stem Bulrush	N <i>schoenoplectus tabernaemontani</i>	6.0
Olney's Three-Square Bulrush	N <i>schoenoplectus americanus</i>	6.0
Baltic Rush	N <i>juncus balticus</i>	6.0
Woolly Sedge	N <i>Asclepias speciosa</i>	4.0
Showy Milkweed	N <i>Asclepias speciosa</i>	2.0

Rate: 8oz. Per 1,000 sq.ft.
*Seed matrix provided by Western Native Seed

4 HIGH PLAINS/FOOTHILLS WET MEADOW SEED MIX (Range: up to 7,000' el.)
Scale: NTS

3RD STREET BANK LIVE STAKE PLANT SCHEDULE

Code	Common Name	Quantity	Container	Spacing
BANK STABILIZATION PALETTE		3,696 SF		
BETULA GLANDULOSA / RESIN BIRCH	LIVE STAKES	43		10% @ 36" oc
RHUS AROMATICA / FRAGRANT SUMAC	LIVE STAKES	129		30% @ 36" oc
SALIX AMYGDALOIDES / PEACH LEAF WILLOW	LIVE STAKES	86		20% @ 36" oc
SALIX EXIGUA / NARROWLEAF WILLOW	LIVE STAKES	171		40% @ 36" oc

10TH STREET BANK LIVE STAKE PLANT SCHEDULE


Code	Common Name	Quantity	Container	Spacing
BANK STABILIZATION PALETTE		1,014 SF		
BETULA GLANDULOSA / RESIN BIRCH	LIVE STAKES	12		10% @ 36" oc
RHUS AROMATICA / FRAGRANT SUMAC	LIVE STAKES	36		30% @ 36" oc
SALIX AMYGDALOIDES / PEACH LEAF WILLOW	LIVE STAKES	24		20% @ 36" oc
SALIX EXIGUA / NARROWLEAF WILLOW	LIVE STAKES	47		40% @ 36" oc

5 3RD AND 10TH STREET BANK LIVE STAKE PLANT SCHEDULE
Scale: NTS

SEEDING GUIDANCE

- SEED METHODOLOGY: THE FOLLOWING METHODOLOGY PROVIDES SEQUENCING FOR ESTABLISHING THE SEED MIXES PRESCRIBED ON THE PLANS. THIS PROCESS SHOULD BEGIN FOLLOWING FINAL GRADING. THIS METHODOLOGY DOES NOT SPECIFY A TEMPORARY COVER CROP. A COVER CROP MAY BE NEEDED TO STABILIZE THE SITE DEPENDING ON WEATHER CONDITIONS AND CONSTRUCTION TIMING RELATIVE TO THE SEASONS AND THE IDEAL TIME FRAME FOR ESTABLISHING THE SEEDED AREAS. THE BEST TIME TO SEED FOR THIS PROJECT IS IN THE SPRING WHEN THE SOILS ARE AT A NORMAL MOISTURE CONTENT LEVEL (MOIST, NOT SATURATED) AND NO LATER THAN JUNE 30. WEATHER FORECASTS SHOULD BE MONITORED AS OCCASIONAL WATERING MAY BE NECESSARY IF A DRY SPRING SEASON OCCURS. THE SEEDING SEQUENCE SHOULD BEGIN NO LONGER THAN 48 HOURS AFTER FINAL GRADING. SITE STABILIZATION TECHNIQUES SHOULD BE UTILIZED IN THIS 48-HOUR TIME PERIOD.
- SOIL SCARIFICATION/ SEED BED PREPARATION: SEED BED PREPARATION IS THE PROCESS OF SCARIFYING AND LOOSENING THE SOIL SURFACE TO CREATE A LOOSE, FRIABLE, SOIL SURFACE. THE SOIL SURFACE SHOULD BE A UNIFORM PLANAR SURFACE THAT IS FLAT AND WITHOUT EXCESSIVE RIDGES, FURROWS, RUTS OR MOUNDS AND LOW SPOTS WHERE WATER CAN COLLECT. SOIL SCARIFICATION SHOULD ONLY OCCUR WHEN WEATHER, SOIL CONDITIONS, AND CONSTRUCTION PHASING ALLOWS FOR NO LONGER THAN 48 HOURS BETWEEN SCARIFICATION (THE BEGINNING OF THE SEEDING PROCESS) AND COVERING THE SEED WITH WEED FREE STRAW MULCH (NOT HAY), OR EROSION CONTROL BLANKET. THE SOIL SHOULD BE SCARIFIED TO MAXIMUM DEPTH OF 3 INCHES (SEE BELOW). DURING THIS PROCESS, AREAS WHERE COARSE GRAVEL DOMINATES THE SOIL SURFACE SHOULD BE IDENTIFIED AND AMENDED WITH FINE SANDY-SOIL COMMON BORROW GENERATED FROM ON-SITE EARTHWORK. THE IMPORTATION OF TOPSOIL SHOULD BE A LAST RESORT AND ONLY USED AS AN AMENDMENT FOR "LOCALIZED" SPOTS THAT LACK THE CHARACTERISTICS OF A SOIL SEED BED.
- SEED APPLICATION: A WELL-PREPARED SEED BED PROVIDES A LOOSE FRIABLE SOIL SURFACE FOR WHICH THE SEED CAN BE SOWN INTO. SEED APPLICATION IS A TWO-PART PROCESS: 1) SEED APPLICATION AT PROPER RATES PER ACRE AND 2) SOW THE SEED INTO THE SOIL ¼ TO ½" DEPTH MAXIMUM. APPROPRIATE SEED RATES FOR EACH PRESCRIBED SEED MIX ARE SPECIFIED ON THE ACCOMPANYING DETAILS.
 - SEEDING BY HAND: CHECK THE SEED LABEL PRIOR TO OPENING THE BULK BAG TO CONFIRM THE CORRECT SEED IS BEING APPLIED TO THE SPECIFIED LOCATION. THE BULK BAGS OF SEED SHOULD BE AGITATED BY HAND ON SITE TO REDISTRIBUTE THE SEEDS IN THE MATRIX BEFORE SPREADING. IN BARE AREAS A WEED FREE STRAW MULCH MAY BE USED TO COVER THE SOIL SURFACE FOLLOWING THE SEED APPLICATION.
 - SOWING THE SEED: ONCE THE SEED IS SPREAD THE SEED MUST BE SOWN INTO THE SOIL TO THE DEPTH ABOVE TO INCREASE CHANCES OF GERMINATION BY KEEPING SOIL MOISTURE CLOSE TO THE SEED. THE SEED CAN BE SOWN BY A NUMBER OF WAYS INCLUDING "TRACKED" IN WITH A LOW PSI RUBBER TIRE OR TRACKED MACHINE, USING A YORK LANDSCAPE RAKE OR SIMILAR, OR THE TRADITIONAL MEANS OF USING A METAL LEAF RAKE.
- RESEEDING: AREAS TO BE RESEEDED SHALL FOLLOW THE SAME SEEDING SEQUENCE OUTLINED ABOVE. IT IS EXPECTED THAT SOME SEEDED AREAS MAY NOT GERMINATE, BUT THAT OVER TIME THE PLANTED AREAS SHALL FILL IN THROUGH SEED PROLIFERATION AND GROWTH HABITS. AREAS LARGE ENOUGH TO BE IDENTIFIED THROUGH MONITORING AS BEING DOMINATED BY WEEDS OR OTHER INVASIVE SPECIES THAT HAVE OUT COMPETED THE SPECIFIED SEED MIX OR AREAS DEEMED UNSTABLE DUE TO LOW PLANT GROWTH SHALL BE RESEEDED ACCORDINGLY.
- PLANT SUCCESSION NOTES: IT IS POSSIBLE THAT OVER TIME SOME SEEDED AREAS MIGHT BECOME DOMINATED BY NATIVE PLANT SPECIES EXISTING IN THE SOIL SEED BANK. ONE EXAMPLE OF THIS IS THE LIKELIHOOD THAT VARIOUS TYPES OF NATIVE SEDGES NOT INCLUDED IN THE SEED MIX COULD EMERGE IN WETLAND AREAS. ESTABLISHED EXISTING NATIVE SPECIES ARE HIGHLY DESIRABLE BECAUSE THEY ARE PROVEN TO EXIST AND THRIVE IN THE IDENTIFIED PLANTING AREAS AND ADD TO LANDSCAPE DIVERSITY. NATIVE SPECIES THAT EMERGE DUE TO BEING IN THE SOIL SEED BANK SHOULD REMAIN. THOROUGH AND REGULAR MONITORING DURING THE MATURATION OF THE ESTABLISHMENT AREAS IS A KEY COMPONENT TO BALANCING AREAS TO BE RESEEDED AND AREAS WHERE SUCCESSIONAL PLANT GROWTH OF NATIVES SHOULD BE ALLOWED TO THRIVE.

Prepared by:
SWCA
ENVIRONMENTAL CONSULTANTS
SWCA Environmental Consultants
1063 W Horsetooth Rd
Building B, Suite 200
Fort Collins, CO 80526
(970) 237 4096
www.swca.com

Prepared for:

RECREATION & PARK DISTRICT
Meeker, Colorado
101 UTE ROAD
MEEKER, CO 81641

LEGEND

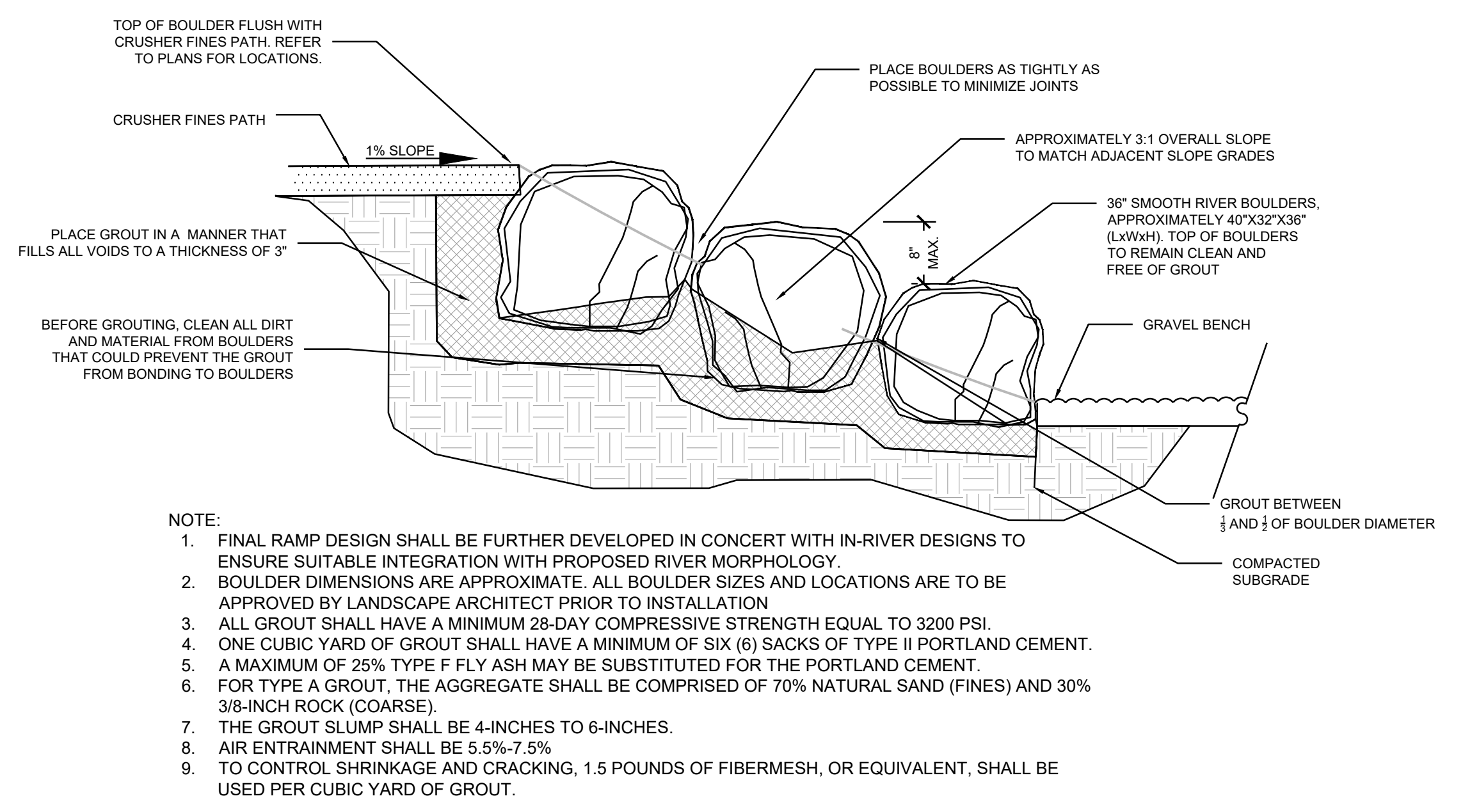
Stamp:	
Project Title:	WHITE RIVER RIVERFRONT ENHANCEMENTS 20 5TH STREET MEEKER, CO
Sheet Title:	LANDSCAPE DETAILS AND NOTES

Date:	04/07/2023
Scale:	As Shown
Drawn by:	KLX
Checked by:	MP
File #	72070

REVISIONS		
Date:	By:	Note:

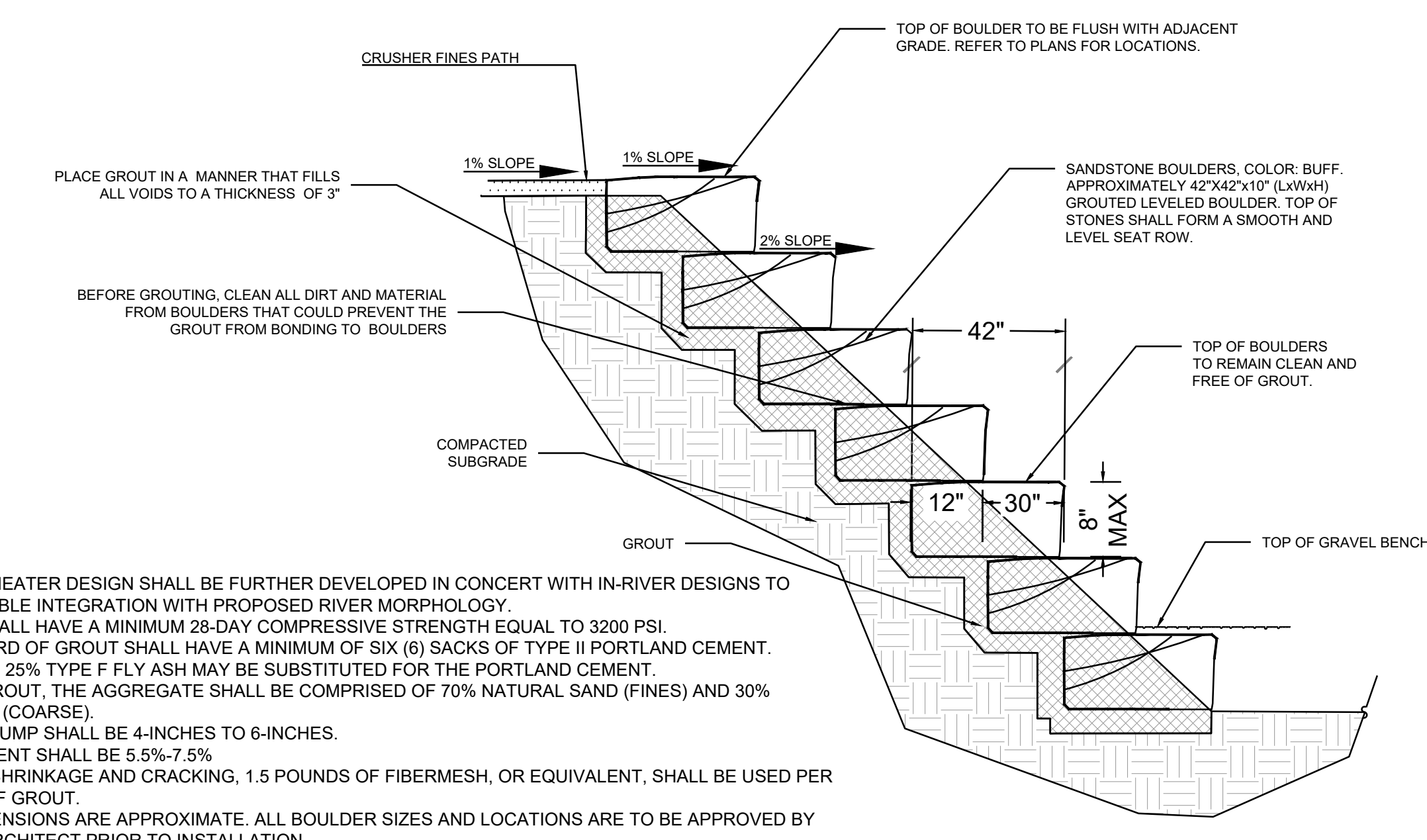
Sheet No: 12.4





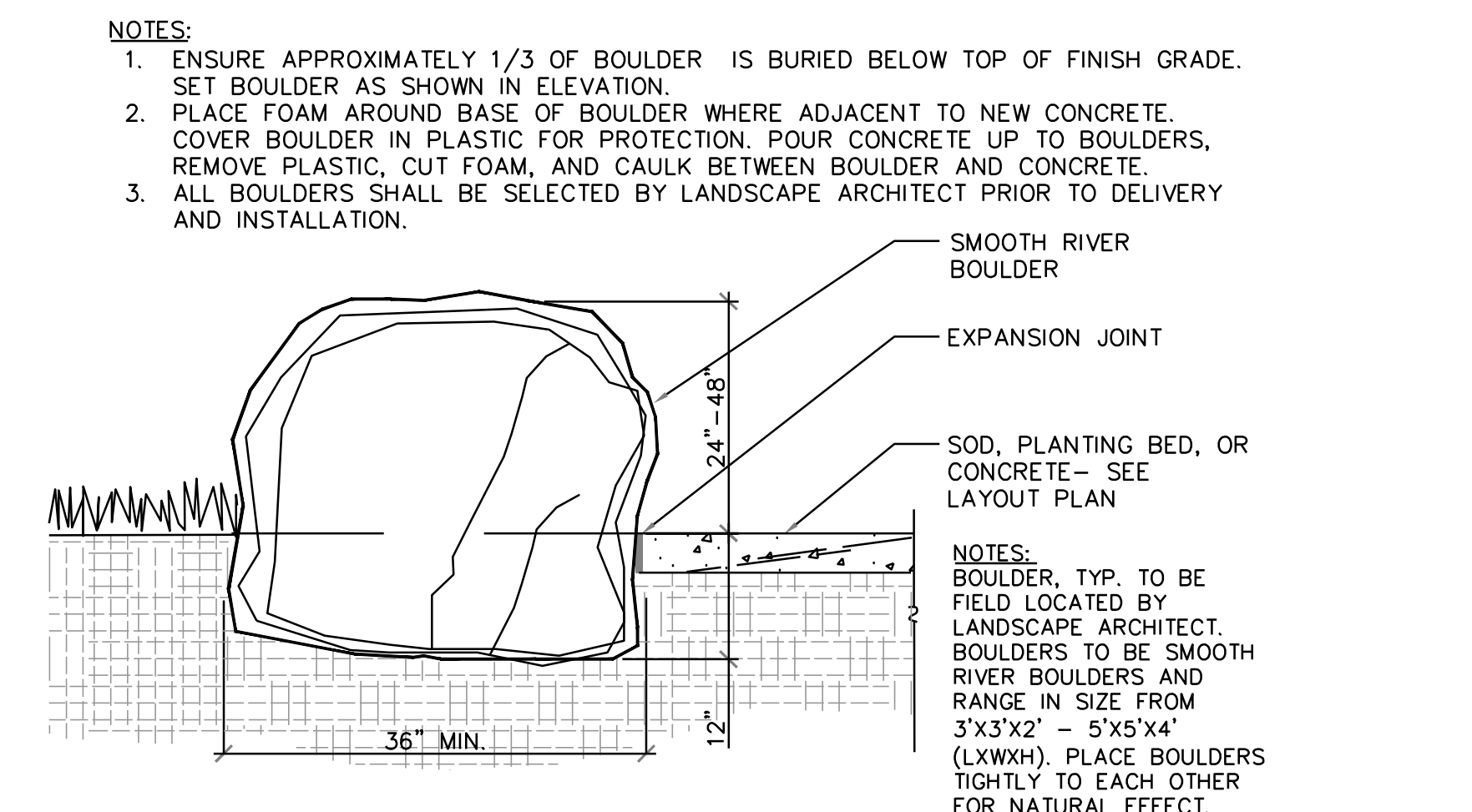
1 BOULDER STEPS RIVER ACCESS
 Scale: NTS

- NOTE:
1. FINAL RAMP DESIGN SHALL BE FURTHER DEVELOPED IN CONCERT WITH IN-RIVER DESIGNS TO ENSURE SUITABLE INTEGRATION WITH PROPOSED RIVER MORPHOLOGY.
 2. BOULDER DIMENSIONS ARE APPROXIMATE. ALL BOULDER SIZES AND LOCATIONS ARE TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
 3. ALL GROUT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH EQUAL TO 3200 PSI.
 4. ONE CUBIC YARD OF GROUT SHALL HAVE A MINIMUM OF SIX (6) SACKS OF TYPE II PORTLAND CEMENT.
 5. A MAXIMUM OF 25% TYPE F FLY ASH MAY BE SUBSTITUTED FOR THE PORTLAND CEMENT.
 6. FOR TYPE A GROUT, THE AGGREGATE SHALL BE COMPRISED OF 70% NATURAL SAND (FINES) AND 30% 3/8-INCH ROCK (COARSE).
 7. THE GROUT SLUMP SHALL BE 4-INCHES TO 6-INCHES.
 8. AIR ENTRAINMENT SHALL BE 5.5%-7.5%.
 9. TO CONTROL SHRINKAGE AND CRACKING, 1.5 POUNDS OF FIBERMESH, OR EQUIVALENT, SHALL BE USED PER CUBIC YARD OF GROUT.



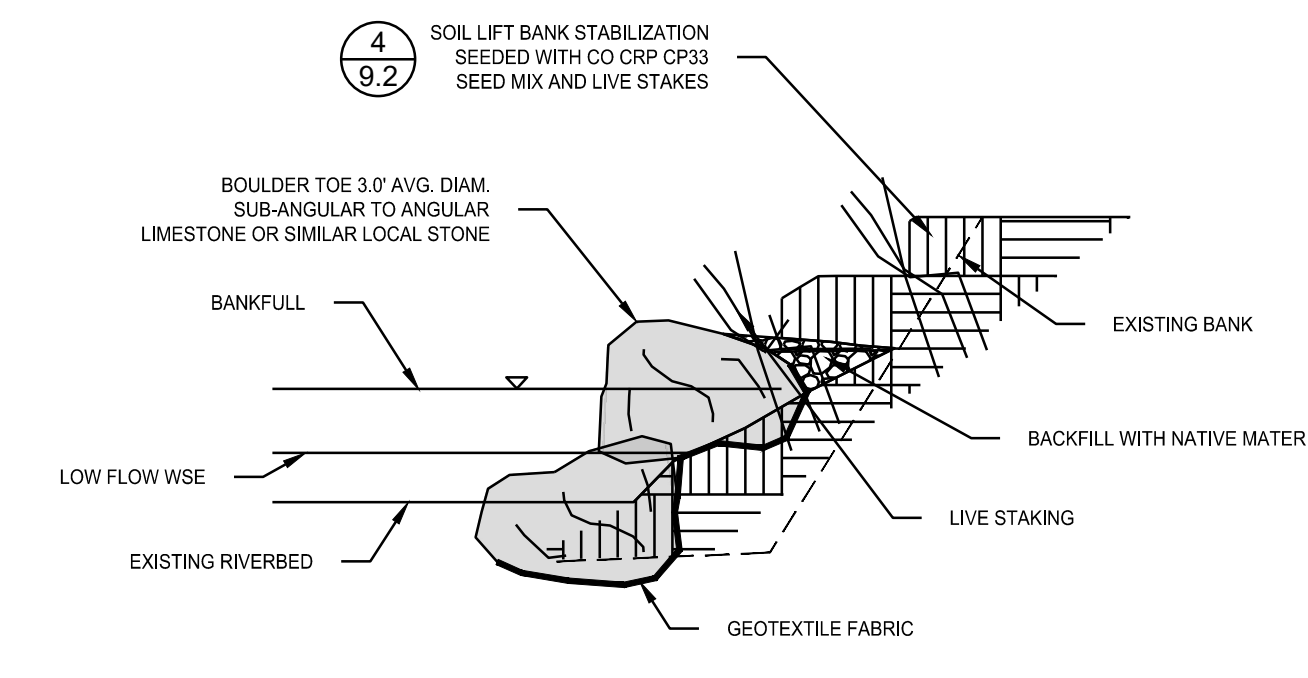
2 STONE AMPHITHEATER RIVER ACCESS
 Scale: NTS

- NOTE:
1. FINAL AMPHITHEATER DESIGN SHALL BE FURTHER DEVELOPED IN CONCERT WITH IN-RIVER DESIGNS TO ENSURE SUITABLE INTEGRATION WITH PROPOSED RIVER MORPHOLOGY.
 2. ALL GROUT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH EQUAL TO 3200 PSI.
 3. ONE CUBIC YARD OF GROUT SHALL HAVE A MINIMUM OF SIX (6) SACKS OF TYPE II PORTLAND CEMENT.
 4. A MAXIMUM OF 25% TYPE F FLY ASH MAY BE SUBSTITUTED FOR THE PORTLAND CEMENT.
 5. FOR TYPE A GROUT, THE AGGREGATE SHALL BE COMPRISED OF 70% NATURAL SAND (FINES) AND 30% 3/8-INCH ROCK (COARSE).
 6. THE GROUT SLUMP SHALL BE 4-INCHES TO 6-INCHES.
 7. AIR ENTRAINMENT SHALL BE 5.5%-7.5%.
 8. TO CONTROL SHRINKAGE AND CRACKING, 1.5 POUNDS OF FIBERMESH, OR EQUIVALENT, SHALL BE USED PER CUBIC YARD OF GROUT.
 9. BOULDER DIMENSIONS ARE APPROXIMATE. ALL BOULDER SIZES AND LOCATIONS ARE TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.



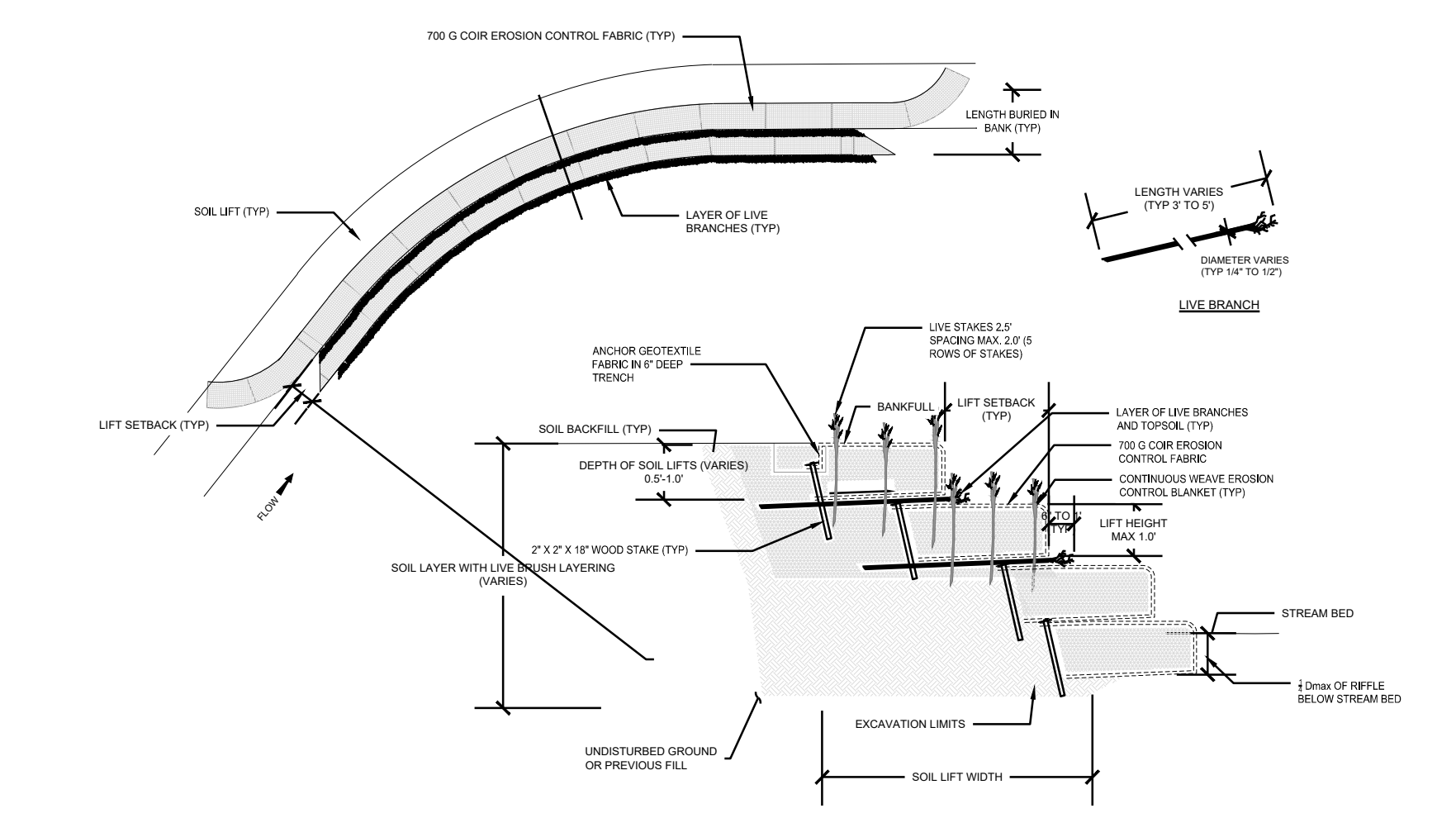
3 LANDSCAPE BOULDER
 Scale: 1" = 1'-0"

- NOTES:
1. ENSURE APPROXIMATELY 1/3 OF BOULDER IS BURIED BELOW TOP OF FINISH GRADE. SET BOULDER AS SHOWN IN ELEVATION.
 2. PLACE FOAM AROUND BASE OF BOULDER WHERE ADJACENT TO NEW CONCRETE. COVER BOULDER IN PLASTIC FOR PROTECTION. POUR CONCRETE UP TO BOULDERS, REMOVE PLASTIC, CUT FOAM, AND CAULK BETWEEN BOULDER AND CONCRETE.
 3. ALL BOULDERS SHALL BE SELECTED BY LANDSCAPE ARCHITECT PRIOR TO DELIVERY AND INSTALLATION.



4 BOULDER TOE
 SCALE: NTS

- NOTES:
1. ALL BANK AREA ENHANCEMENTS SHALL BE FURTHER DEVELOPED IN CONCERT WITH IN-RIVER DESIGNS TO ENSURE SUITABLE INTEGRATION WITH PROPOSED RIVER MORPHOLOGY.
 2. THE SOIL BACKFILL USED FOR LIFTS AND TOPSOIL USED FOR LAYERING WITH THE LIVE BRANCHES SHALL BE FREE OF ANY LARGE ROOTS OR WOODY DEBRIS AND SHALL GENERALLY BE FREE FROM ANY GRAVEL OR COBBLE MATERIAL.
 3. SOIL BACKFILL SHALL BE COMPACTED SUCH THAT FUTURE SETTLEMENT WILL BE KEPT TO A MINIMUM. YET, NOT SUCH THAT THE UNDERLYING SOIL LIFT IS DISPLACED OR DAMAGED.
 4. THE TOP OF THE BACKFILL FOR THE FIRST LIFT SHALL BE SLOPED AT APPROXIMATELY 5% AWAY FROM THE STREAM.
 5. PLACE A LAYER OF TOPSOIL AND LIVE BRANCHES ON TOP OF EACH SOIL LIFT SUCH THAT APPROXIMATELY 6 INCHES TO 1 FOOT OF EACH LIVE BRANCH WILL BE EXPOSED AND THE REMAINING 2\"/>



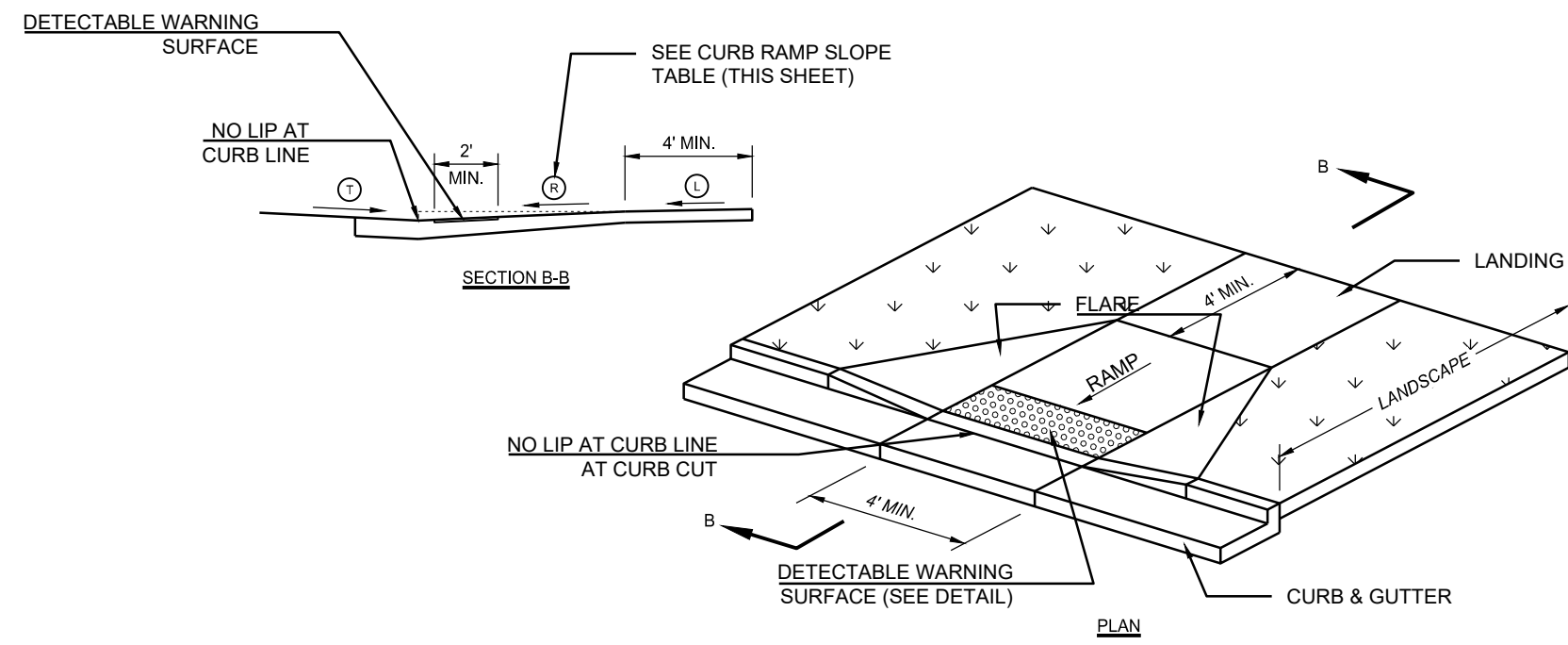
5 SOIL LIFT BANK STABILIZATION
 SCALE: NTS

- NOTES:
1. ALL BANK AREA ENHANCEMENTS SHALL BE FURTHER DEVELOPED IN CONCERT WITH IN-RIVER DESIGNS TO ENSURE SUITABLE INTEGRATION WITH PROPOSED RIVER MORPHOLOGY.
 2. THE SOIL BACKFILL USED FOR LIFTS AND TOPSOIL USED FOR LAYERING WITH THE LIVE BRANCHES SHALL BE FREE OF ANY LARGE ROOTS OR WOODY DEBRIS AND SHALL GENERALLY BE FREE FROM ANY GRAVEL OR COBBLE MATERIAL.
 3. SOIL BACKFILL SHALL BE COMPACTED SUCH THAT FUTURE SETTLEMENT WILL BE KEPT TO A MINIMUM. YET, NOT SUCH THAT THE UNDERLYING SOIL LIFT IS DISPLACED OR DAMAGED.
 4. THE TOP OF THE BACKFILL FOR THE FIRST LIFT SHALL BE SLOPED AT APPROXIMATELY 5% AWAY FROM THE STREAM.
 5. PLACE A LAYER OF TOPSOIL AND LIVE BRANCHES ON TOP OF EACH SOIL LIFT SUCH THAT APPROXIMATELY 6 INCHES TO 1 FOOT OF EACH LIVE BRANCH WILL BE EXPOSED AND THE REMAINING 2\"/>

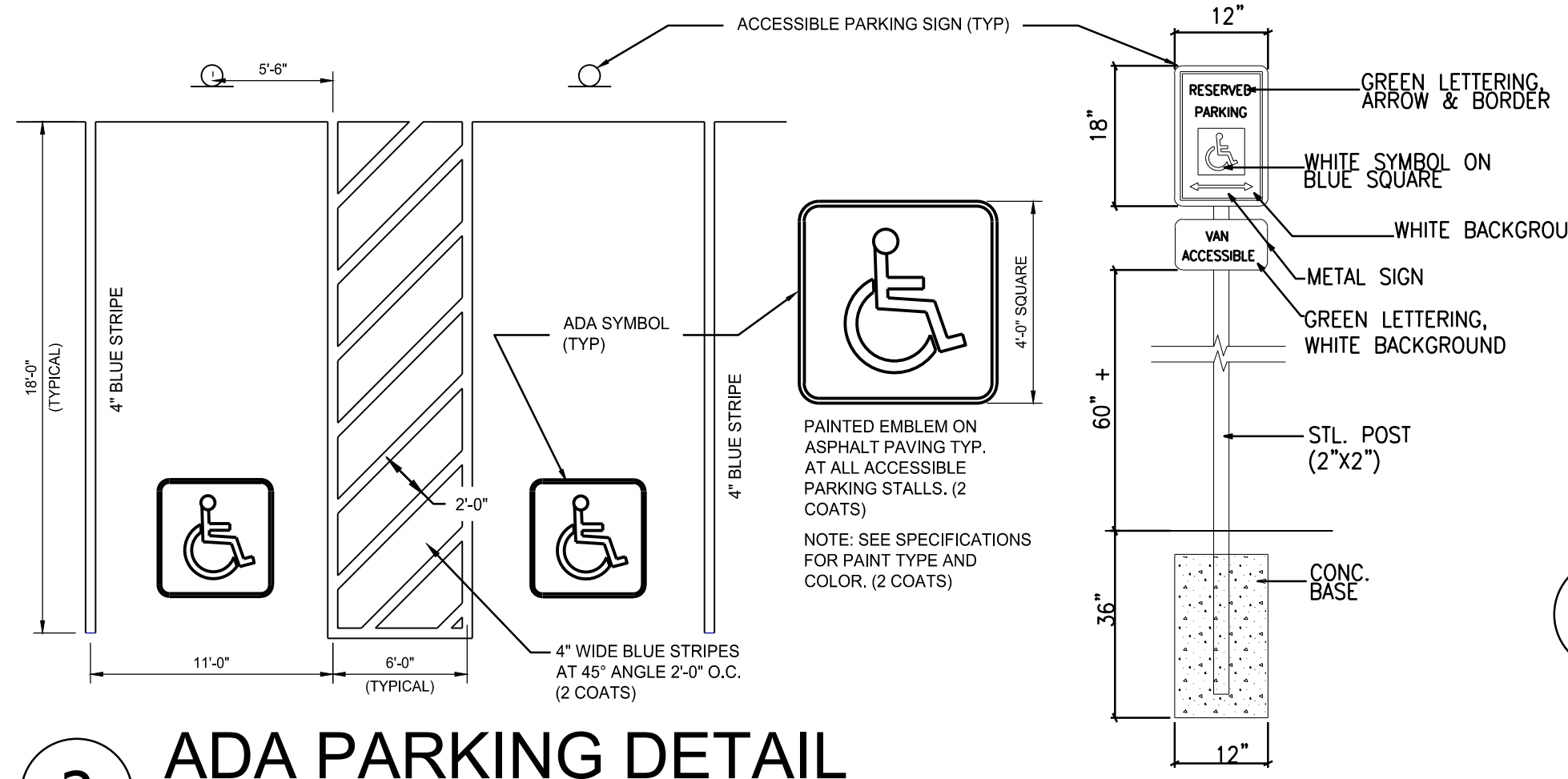
6. LIVE BRANCHES SHALL BE OF THE SPECIES SPECIFIED FOR LIVE STAKES OR APPROVED BY THE ENGINEER AND SHALL EXCLUDE INVASIVE SPECIES.
7. PLACE A LAYER OF 6.5 FEET WIDE GEOCOIR DEKOWE 700 EROSION CONTROL BLANKET, OR EQUIVALENT, ON TOP OF THE TOPSOIL AND LIVE BRANCHES SUCH THAT 2.5 FEET OF THE BLANKET WILL BE BURIED BELOW THE NEXT SOIL LIFT. ALLOW THE REMAINING 4.0 FEET OF BLANKET TO HANG OVER THE PRECEDING SOIL LIFT OR COIR FIBER LOGS.
8. PLACE A LAYER OF 6.5 FEET WIDE NON-WOVEN COIR MATTING OVER THE EROSION CONTROL BLANKET TO THE SAME LIMITS.
9. SOIL CAN BE COMPACTED BY STACKING A PIECE OF 2 X 6 SAWN LUMBER EDGEWAYS UP TO THE LIFT HEIGHT SPECIFIED IN THE STRUCTURE TABLE AND SECURING WITH WOODEN STAKES TO PROVIDE A RIGID BACKSTOP FOR COMPACTING SOIL LIFT.
10. PLACE SOIL BACKFILL UP TO THE LIFT HEIGHT SPECIFIED OF NO GREATER THAN 1.0 FT BEING CAREFUL NOT TO PUSH/PULL OR TEAR THE FABRIC PREVIOUSLY PLACED.
11. THE TOP OF THE SOIL BACKFILL SHALL BE FLAT WITHIN THE LIFT

12. TOP DRESS THE SOIL LIFT WITH TOPSOIL FROM THE FACE OF THE SOIL LIFT BACK INTO THE FLOORPLAN AT LEAST 4 FT.
13. REMOVE THE SAWN LUMBER AND WOODEN STAKES FROM THE FACE OF THE SOIL LIFT AND WRAP THE FACE AND TOP OF THE SOIL LIFT USING THE WOVEN AND NON-WOVEN COIR MATTING HANGING OVER THE PREVIOUS LIFT OR FIBER LOGS.
14. THE EROSION CONTROL FABRIC SHALL BE PULLED AS TIGHT AS POSSIBLE WITHOUT TEARING OR EXCESSIVELY DISTORTING THE FABRIC.
15. SECURE THE EROSION CONTROL AND NON-WOVEN MATTING IN PLACE BY STAKING THE END OF THE EROSION CONTROL FABRIC WITH WOODEN STAKES ON 16-FOOT CENTERS.
16. BEGIN CONSTRUCTION OF THE NEXT SOIL LIFT BY REPEATING THE PREVIOUS NOTES STARTING WITH NOTE 6.
17. THE OVERALL SLOPE CREATED BY THE LIVE BRUSH LAYERING SHALL MATCH THE PROPOSED CROSS SECTION SHAPE FOR THE OUTER BANK OF THE TYPICAL POOL CROSS-SECTION FOR EACH REACH.
18. THE COIR BLANKETS AND GEOTEXTILE FABRIC USED FOR THE UPPER MOST SOIL LIFT WILL BE SECURED WITHIN A 6 INCH DEEP TRENCH AS SHOWN IN DETAIL.
19. THE SURFACE OF THIS STRUCTURE SHALL BE FINISHED TO A SMOOTH AND COMPACT SURFACE IN ACCORDANCE WITH THE LINES, GRADES, AND CROSS-SECTIONS OR ELEVATIONS SHOWN ON THE DRAWINGS. THE DEGREE OF FINISH FOR ELEVATIONS SHALL BE WITHIN 0.1 FT OF THE GRADES AND ELEVATIONS INDICATED OR APPROVED BY THE ENGINEER.
20. RE-DRESSING OF CHANNEL AND BANKFULL BENCHFLOODPLAIN WILL LIKELY BE REQUIRED FOLLOWING INSTALLATION OF IN-STREAM STRUCTURES AND SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
21. THE LOWER BANK STABILIZATION IS CRITICAL TO THE DESIGN INTENT OF THIS PROJECT. VARIANCE FROM SOIL LIFT STABILIZATION WILL ONLY BE CONSIDERED IF SUITABLE FILL MATERIAL IS NOT AVAILABLE ON-SITE.

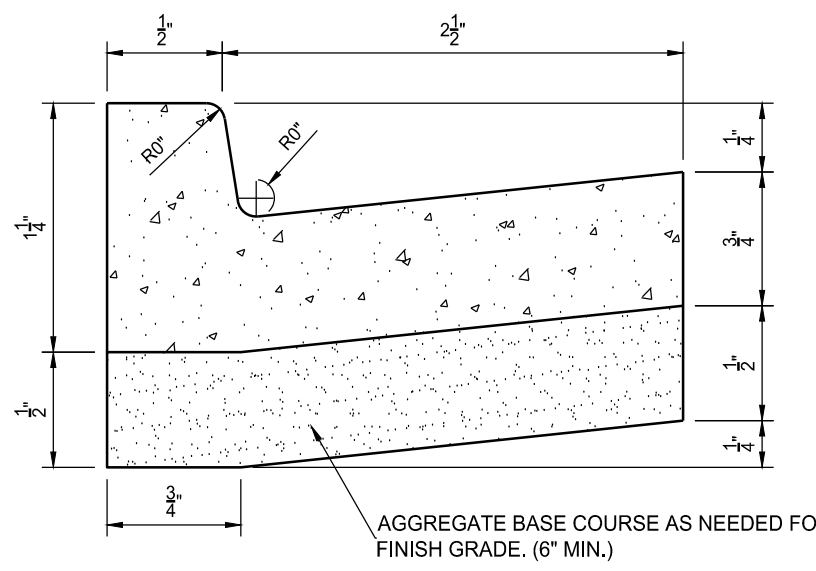




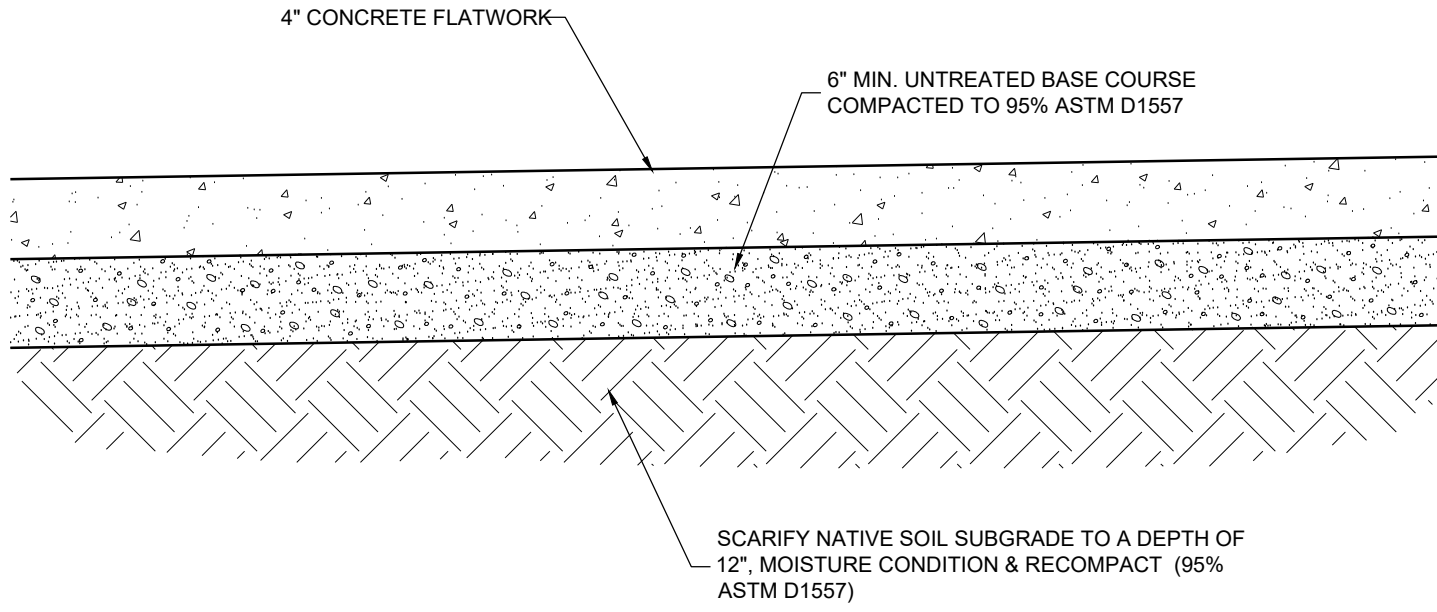
1 ADA RAMP DETAIL
SCALE: NTS



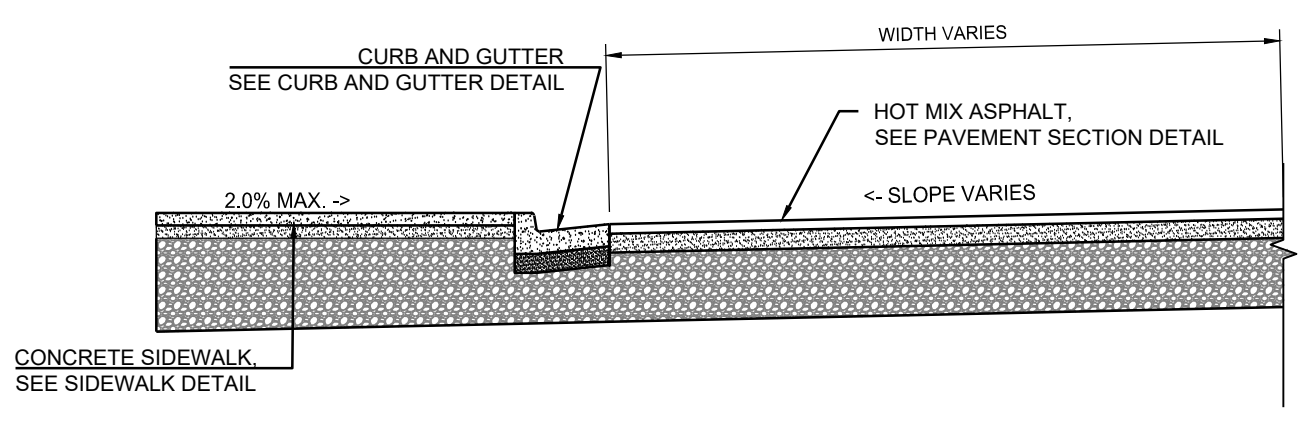
2 ADA PARKING DETAIL
SCALE: NTS



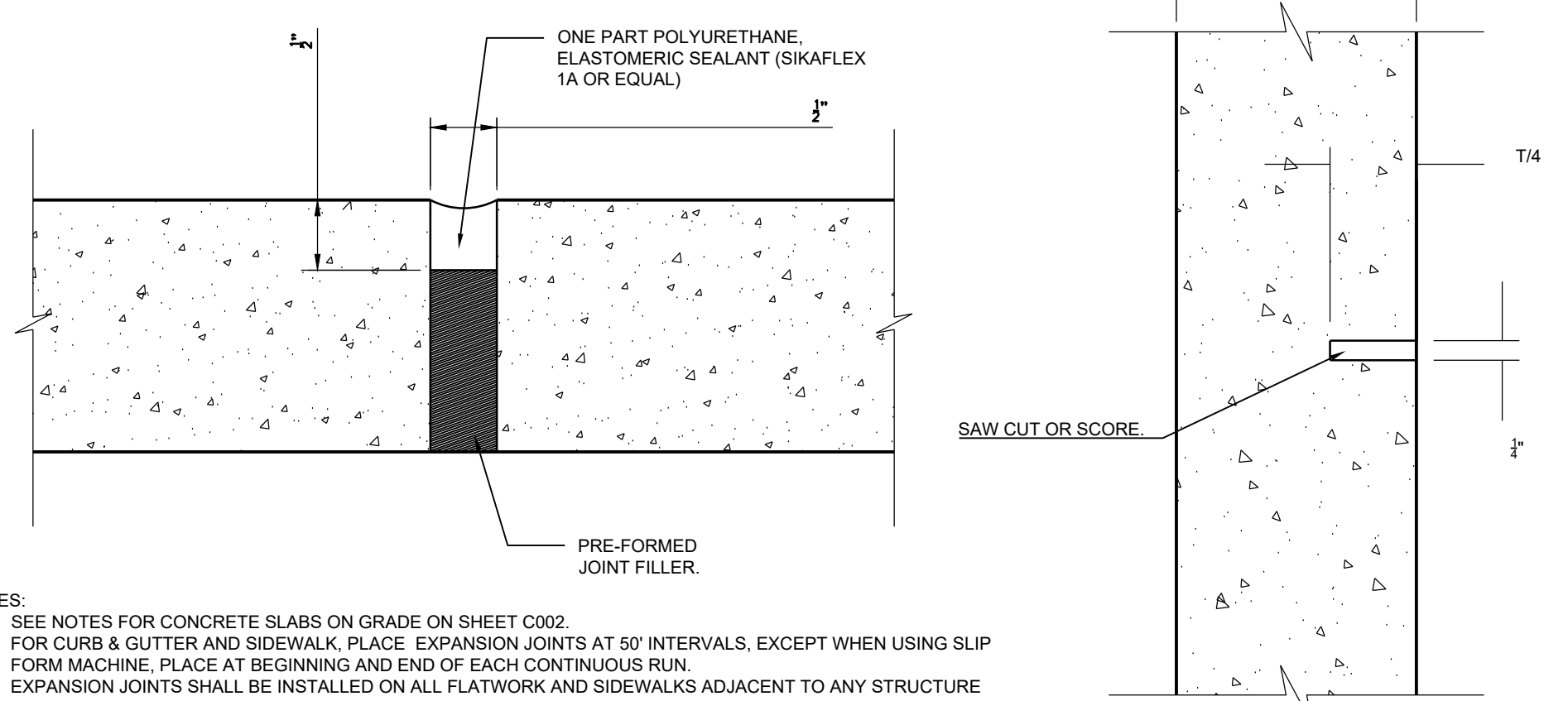
3 30\"/>



4 4\"/>



5 PARKING CURB SECTION DETAIL
SCALE: NTS



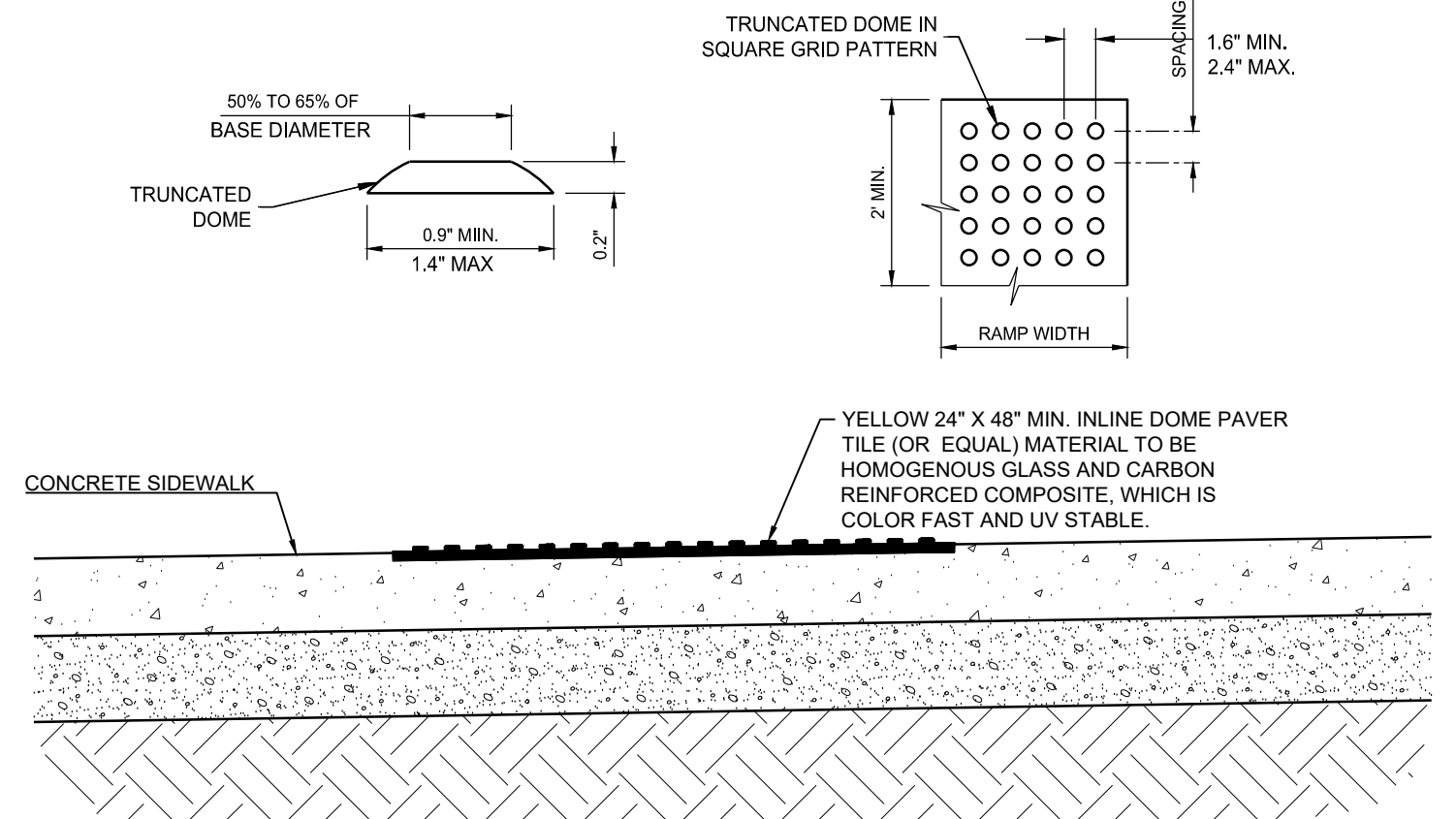
6 STANDARD CONCRETE JOINT DETAILS
SCALE: NTS

CURB RAMP SLOPE TABLE			
	ITEM	MAX. RUNNING SLOPE *	MAX. CROSS SLOPE *
(L)	LANDING	2% (1V:50H)	2% (1V:50H)
(R)	RAMP	8.33% (1V:12H)	2% (1V:50H)
(T)	TRANSITION	5% (1V:20H) (a)	2% (1V:50H)
	SIDEWALK	--	2% (1V:50H)
	FLARE	10% (1V:10H)	--

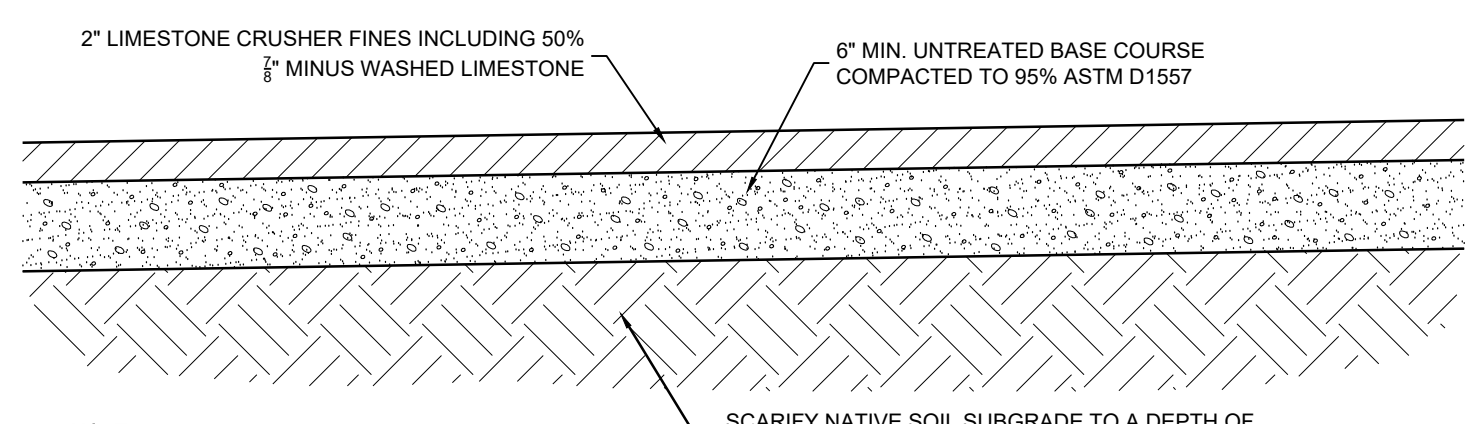
* RUNNING SLOPE IS IN THE DIRECTION OF PEDESTRIAN TRAVEL, WHILE CROSS SLOPE IS PERPENDICULAR TO PEDESTRIAN TRAVEL.
 (a) TRANSITION RUNNING SLOPE NEEDS TO BE CONSTANT ACROSS ENTIRE CURB CUT. WARP GUTTER PAN TO MEET REQUIRED TRANSITION SLOPE AT CURB CUT.

NOTES:
 1. CONFIGURATION OF RAMPS AND LANDINGS MAY VARY TO FIT SITE CONDITIONS, BUT MUST MEET DIMENSION AND SLOPE REQUIREMENTS.
 2. PROVIDE DETECTABLE WARNING SURFACE FOR FULL WIDTH OF RAMP. SEE DETAIL FOR DETECTABLE WARNING SURFACE DIMENSIONS.
 3. LOCATE DETECTABLE WARNING SURFACE SO THAT THE EDGE NEAREST THE STREET IS 6 OR 8 INCHES FROM THE CURB LINE.
 4. PROVIDE DETECTABLE WARNING SURFACE THAT CONTRASTS WITH ADJACENT WALKING SURFACE, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. ACCEPTABLE COLORS INCLUDE: RED, BLACK OR YELLOW.
 5. CURB RAMPS SHALL COMPLY WITH AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS.

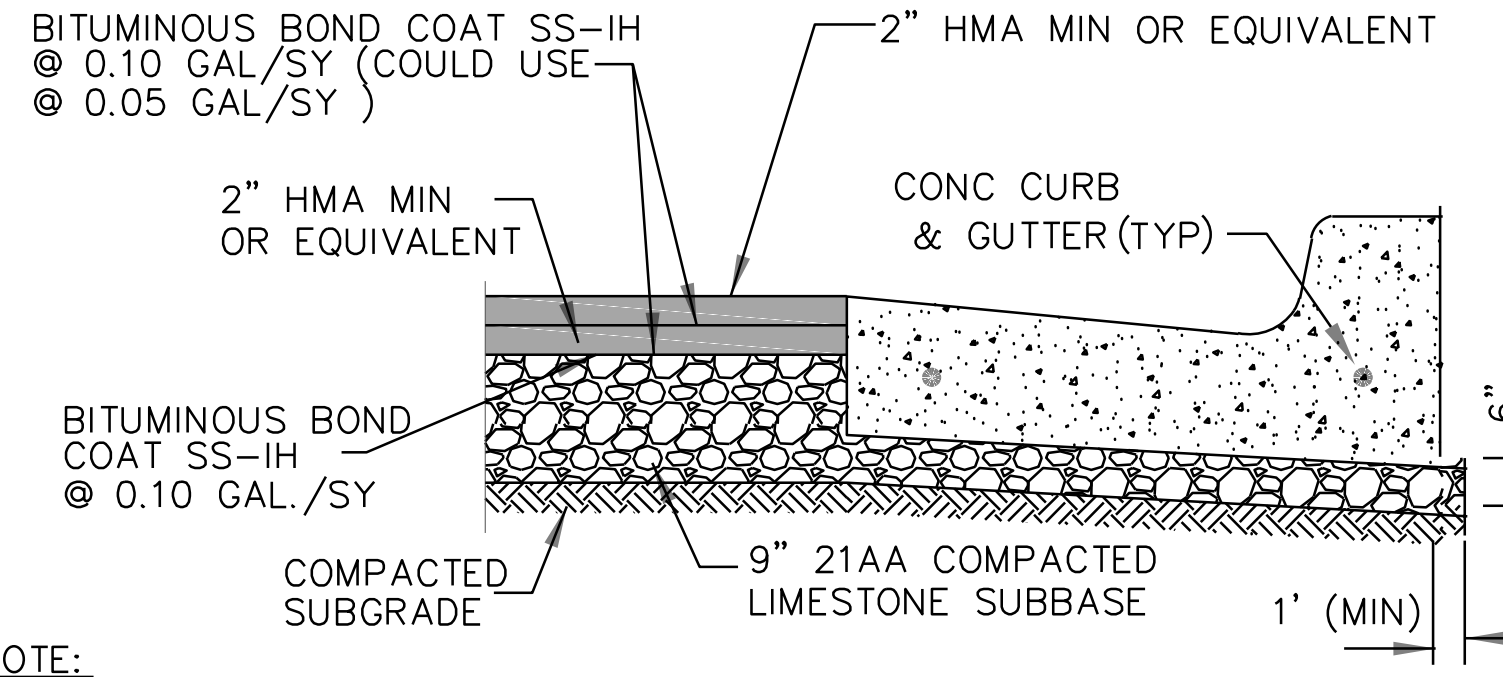
8 CURB RAMP SLOPE TABLE
SCALE: NTS



7 DETECTABLE WARNING PAD DETAIL
SCALE: NTS



9 AGGREGATE WALKING PATH
SCALE: NTS

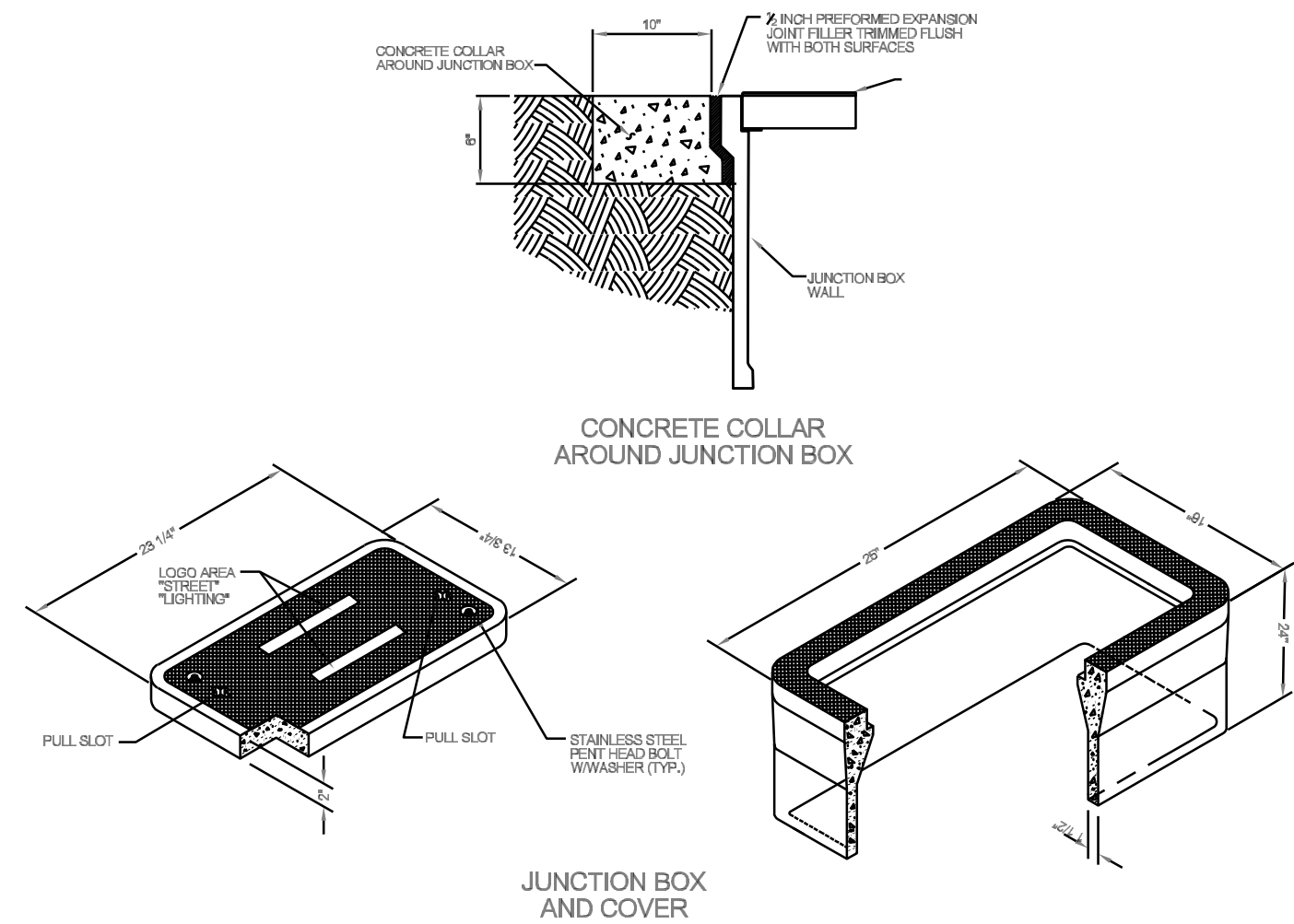


10 PARKING PAVEMENT AND CURB DETAIL (TYP)
SCALE: NTS

NOTE:
 1. WALKING PATH TOP LAYER CONSISTS OF 50% 2\"/>

NOTES:
 1. SEE NOTES FOR CONCRETE SLABS ON GRADE ON SHEET C002.
 2. FOR CURB & GUTTER AND SIDEWALK, PLACE EXPANSION JOINTS AT 50' INTERVALS, EXCEPT WHEN USING SLIP FORM MACHINE, PLACE AT BEGINNING AND END OF EACH CONTINUOUS RUN.
 3. EXPANSION JOINTS SHALL BE INSTALLED ON ALL FLATWORK AND SIDEWALKS ADJACENT TO ANY STRUCTURE





UNDERGROUND PULL BOXES SHALL BE QUAZITE® AS MANUFACTURED BY STRONGWELL OR APPROVED EQUAL. THE PULL/SPLICE BOX SHALL BE CONSTRUCTED OF POLYMER CONCRETE CONSISTING OF SAND AND AGGREGATE BOUND TOGETHER WITH A POLYMER RESIN. INTERNAL REINFORCEMENT MAY BE PROVIDED BY MEANS OF STEEL, FIBERGLASS, OR A COMBINATION OF THE TWO. BOXES AND COVERS SHALL BE CONCRETE GRAY, AND SUSTAIN A MINIMUM VERTICAL TEST LOAD OF 22,568# OVER A 10 SQUARE IN AREA. BOXES SHALL BE STACKED FOR SPECIFIED DEPTH.

1 BELOW GRADE POLYMER-CONCRETE JUNCTION BOX DETAIL
Scale: NTS

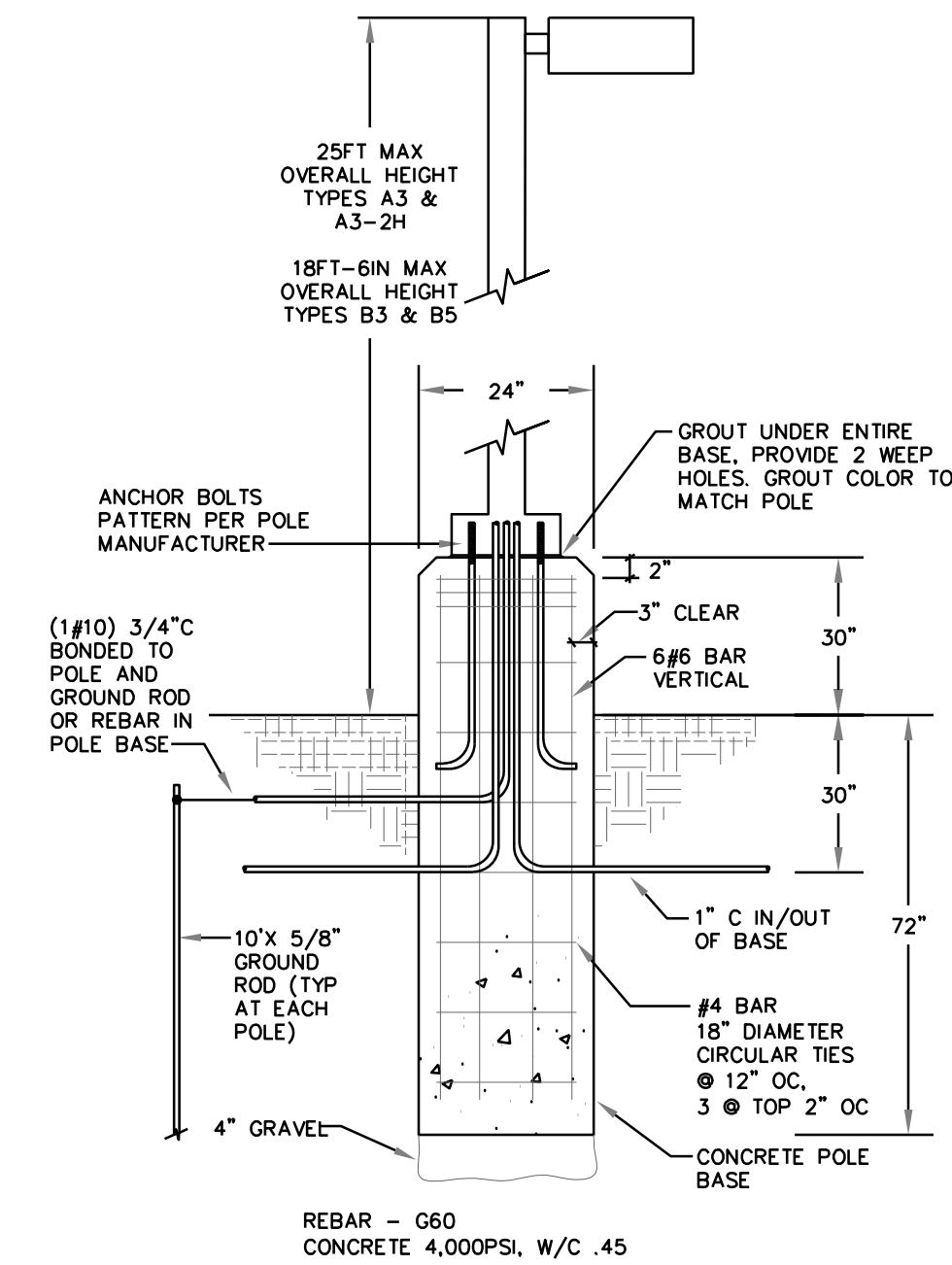


Specifications
 EPA: 1.2 ft² (0.11 m²)
 Length: 33" (83.8 cm)
 Width: 13" (33.0 cm)
 Height: 7-1/2" (19.0 cm)
 Weight (max): 27 lbs (12.2 kg)

●○ A3 ○●○ A3-2H
 DOUBLE AND SINGLE HEAD PARKING LOT LUMINAIRE, FULL CUT-OFF HOUSING, CAST ALUMINUM HOUSING, TYPE 3S DISTRIBUTION, 60 LED ENGINE, 530mA DRIVER, (100 INPUT WATTS), MOUNTED ON A 22'-6" SQUARE STEEL POLE MOUNTED ON A 2'-6" TALL CONCRETE POLE BASE - 25' O.A.H. (SEE DETAIL). LITHONIA-DSX1LED-60C-530-40K-T3S-120V-SPA-DDBXD; 22'-6" SQUARE STEEL POLE.

●○ B3 & B5
 SINGLE HEAD POLE LUMINAIRE, FULL CUT-OFF HOUSING, CAST ALUMINUM HOUSING, TYPE (B3) 3S DISTRIBUTION, TYPE (B5) 5M DISTRIBUTION, 30 LED ENGINE, 530mA DRIVER, (55 INPUT WATTS), MOUNTED ON A 15' SQUARE STEEL POLE MOUNTED ON A 2'-6" TALL CONCRETE POLE BASE - 18'-6" O.A.H. (SEE DETAIL). LITHONIA-DSX1LED-30C-530-40K-5M OR 3S-120V-SPA-DDBXD; 15' SQUARE STEEL POLE.

2 LED POLE LIGHT - TYPE A & B SERIES
Scale: NTS



3 TYPE A & B SERIES LIGHT POLE BASE DETAIL
Scale: NTS

4 BOLLARD LED LIGHTING - TYPE C
Scale: NTS

Missing or invalid reference
 File: .\Downloads\dsxb-led-spec.pdf
 Sheet: 1

Prepared by:
SWCA
 ENVIRONMENTAL CONSULTANTS
 SWCA Environmental Consultants
 1063 W Horsetooth Rd
 Building B, Suite 200
 Fort Collins, CO 80526
 (970) 237-4096
 www.swca.com

Prepared for:

 RECREATION &
 PARK DISTRICT
 Meeker, Colorado
 101 UTE ROAD
 MEEKER, CO 81641

LEGEND

Stamp:

Project Title:
 WHITE RIVER
 RIVERFRONT
 ENHANCEMENTS
 20 5TH STREET
 MEEKER, CO

Sheet Title:
 LIGHTING DETAILS
 AND NOTES

Date:	04/07/2023
Scale:	As Shown
Drawn by:	KLX
Checked by:	MP
File #	72070

REVISIONS		
Date:	By:	Note:

Sheet No:
 12.7



IRRIGATION LEGEND

Symbol	Description
---	SLEEVES: PVC CL 200 SDR 21 4"
—	MAINLINE PIPE: PVC CL 200 SDR 21 2"
====	LATERAL PIPE TO SPRINKLERS: PVC CL 200 SDR 21 1" SIZE UNLESS OTHERWISE INDICATED
⤵	LATERAL PIPE SIZE INDICATOR
⤵	UNCONNECTED PIPE CROSSING
⊕	QUICK COUPLING VALVE ASSEMBLY: HUNTER HQ-44LRC-R 1" QUICK COUPLER VALVE, PURPLE RUBBER LOCKING COVER FOR RECLAIMED WATER USE, RED BRASS AND STAINLESS STEEL, w/ 1" NPT INLET, 2-PIECE BODY
⊕	REMOTE CONTROL VALVE ASSEMBLY: HUNTER ICV-G-FS-R 1" AND 1-1/2" (SIZE PER PLAN) ELECTRIC REMOTE CONTROL VALVE, PLASTIC CONSTRUCTION, GLOBE CONFIGURATION, w/ NPT THREADED INLET/OUTLET, w/ FILTER SENTRY FACTORY INSTALLED OPTION, AND RECLAIMED WATER ID AND PURPLE HANDLE
#	INDICATES STATION NUMBER
—	INDICATES STATION FLOW (GPM)
1-1/2"	INDICATES VALVE SIZE (INCHES)
TURF	INDICATES LANDSCAPE ELEMENT COVERED
MP2-90-210	HUNTER PROS-04-PRS40-CV-R POP-UP BODY w/ CHECK VALVE, NON-POTABLE BODY CAP, PRESSURE REGULATED TO 40 PSI w/ HUNTER MP 800SR NOZZLE PRESSURE: 40 PSI RADIUS: 6' - 9', ADJUSTABLE ARC: ORANGE AND GRAY 90° - 210°, LIME GREEN AND GRAY 360°
MP2-210-270	HUNTER PROS-04-PRS40-CV-R POP-UP BODY w/ CHECK VALVE, NON-POTABLE BODY CAP, PRESSURE REGULATED TO 40 PSI w/ HUNTER MP 1000 NOZZLE PRESSURE: 40 PSI RADIUS: 12' - 15', ADJUSTABLE ARC: TURQUOISE (MP CORNER) = 45° - 105° MAROON 90° - 210°, LIGHT BLUE 210° - 270°, OLIVE 360°
MP1-45	HUNTER PROS-04-PRS40-CV-R POP-UP BODY w/ CHECK VALVE, NON-POTABLE BODY CAP, PRESSURE REGULATED TO 40 PSI w/ HUNTER MP 2000 NOZZLE PRESSURE: 40 PSI RADIUS: 18' - 21', ADJUSTABLE ARC: BLACK 90° - 210°, GREEN 210° - 270°, RED 360°
MP1-90-210	HUNTER PROS-04-PRS40-CV-R POP-UP BODY w/ CHECK VALVE, NON-POTABLE BODY CAP, PRESSURE REGULATED TO 40 PSI w/ HUNTER MP 3000 NOZZLE PRESSURE: 40 PSI RADIUS: 27' - 30', ADJUSTABLE ARC: BLUE 90° - 210°, YELLOW 210° - 270°, GRAY 360°
MP2-210-270	HUNTER PROS-04-PRS40-CV-R POP-UP BODY w/ CHECK VALVE, NON-POTABLE BODY CAP, PRESSURE REGULATED TO 40 PSI w/ HUNTER MP 3000 NOZZLE PRESSURE: 40 PSI RADIUS: 27' - 30', ADJUSTABLE ARC: BLUE 90° - 210°, YELLOW 210° - 270°, GRAY 360°
MP2-360	HUNTER PROS-04-PRS40-CV-R POP-UP BODY w/ CHECK VALVE, NON-POTABLE BODY CAP, PRESSURE REGULATED TO 40 PSI w/ HUNTER MP SIDE STRIP, LEFT STRIP, AND RIGHT STRIP NOZZLES PRESSURE: 40 PSI RADIUS/PATTERN: SIDE STRIP, - 30'X5' LEFT STRIP - 15'X5', RIGHT STRIP - 15'X5'
MP3-90-210	HUNTER 1-25-04-SS-R TURF ROTOR, 4" POP-UP, ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER, CHECK VALVE ASSEMBLY, STANDARD NOZZLE, w/ PURPLE COVER FOR NON-POTABLE WATER
MP3-210-270	4.0 NOZZLE RADIUS: 41' FLOW: 5.1 GPM
MP3-360	5.0 NOZZLE RADIUS: 44' FLOW: 4.8 GPM
MP3-360	7.0 NOZZLE RADIUS: 47' FLOW: 7.0 GPM
MP3-360	8.0 NOZZLE RADIUS: 49' FLOW: 9.9 GPM
MP3-360	10.0 NOZZLE RADIUS: 51' FLOW: 10.1 GPM

SHEET INDEX

- 7.0 - IRRIGATION PLAN
- 8.6 - IRRIGATION DETAILS
- 8.7 - IRRIGATION LEGENDS AND NOTES

INSTALLATION GENERAL NOTES


- SYSTEM DESIGN ASSUMES A MINIMUM DYNAMIC PRESSURE OF 80 PSI AND FLOW OF 50 GPM AT THE EXISTING 2 INCH IRRIGATION MAINLINE. CONTRACTOR TO VERIFY PRESSURE AND FLOW ON SITE PRIOR TO CONSTRUCTION.
- CONTRACTOR TO BECOME FAMILIAR WITH THE SPECIFICATIONS AND INSTALLATION DETAILS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.
- COORDINATE UTILITY LOCATES (811 "CALL BEFORE YOU DIG") OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- DO NOT PROCEED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. IF DISCREPANCIES IN CONSTRUCTION DETAILS, LEGEND, NOTES, OR SPECIFICATIONS ARE DISCOVERED, BRING ALL SUCH OBSTRUCTIONS OR DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. NO IRRIGATION WORK TO BEGIN PRIOR TO ACCEPTANCE OF FINAL GRADE.
- THE DRAWINGS ARE DIAGRAMMATIC. THEREFORE, THE FOLLOWING SHOULD BE NOTED:
 - ALTHOUGH IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE PLANTING AREAS FOR CLARITY, INSTALL IRRIGATION PIPE AND WIRING IN LANDSCAPED AREAS WHENEVER POSSIBLE.
 - TREE AND SHRUB LOCATIONS AS SHOWN ON LANDSCAPE PLANS TAKE PRECEDENCE OVER IRRIGATION EQUIPMENT LOCATIONS. AVOID CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING MATERIALS, AND ARCHITECTURAL FEATURES.
 - USE ONLY STANDARD TEES AND ELBOW FITTINGS. USE OF CROSS TYPE FITTINGS IS NOT ALLOWED.
- SLEEVES ARE REQUIRED FOR BOTH PIPING AND ELECTRICAL WIRING AT EACH HARDSCAPE CROSSING. PROVIDE (1) - 4" SLEEVE AT EACH PIPE CROSSING AND (1) - 4" SLEEVE AT EACH WIRING CROSSING. COORDINATE INSTALLATION OF SLEEVING WITH OTHER TRADES.
- WATER SETTLE TRENCHES PRIOR TO COMPACTION.
- PAINT LOCATION OF THE MAINLINE AND LATERALS AND FLAG LOCATION OF ALL HEADS & VALVES FOR APPROVAL BY OWNER'S REP PRIOR TO ANY TRENCHING.
- HAND DIG ALL TRENCHES WITHIN THE DRIP LINE OF EXISTING TREES.
- BRAND ALL APPROPRIATE VALVE BOX LIDS w/ MIN. 1" LETTERS w/ THE FOLLOWING ABBREVIATIONS:
 - A# = CONTROLLER & CORRESPONDING STATION NUMBER
 - QC = QUICK COUPLER
- COORDINATE w/ OWNER'S REPRESENTATIVE FOR RUNNING CONTROL WIRES BACK TO CONTROLLER IF NECESSARY.
- LOCATE ALL SPRINKLER HEADS MIN. 6" FROM EDGE OF ANY HARDSCAPE MATERIAL.
- SELECT NOZZLES FOR SPRAY AND ROTARY SPRINKLERS WITH ARCS WHICH PROVIDE COMPLETE AND ADEQUATE COVERAGE WITH MINIMUM OVERSPRAY FOR THE SITE CONDITIONS. CAREFULLY ADJUST THE RADIUS OF THROW AND ARC OF COVERAGE OF EACH ROTOR AND ROTARY NOZZLE TO PROVIDE THE BEST PERFORMANCE.
- THE FOLLOWING SHOULD BE NOTED REGARDING PIPE SIZING: IF A SECTION OF UNSIZED PIPE IS LOCATED BETWEEN THE IDENTICALLY SIZED SECTIONS, THE UNSIZED PIPE IS THE SAME NOMINAL SIZE AS THE TWO SIZED SECTIONS. THE UNSIZED PIPE SHOULD NOT BE CONFUSED WITH THE DEFAULT PIPE SIZE NOTED IN THE LEGEND. REDUCE PIPE SIZE BEYOND THE NEXT DOWNSTREAM HEAD OR FITTING FROM THE DESIGNATED SIZE PIPE SHOWN.
- NON-POTABLE IRRIGATION SYSTEM TO FOLLOW ALL REQUIREMENTS FOR RECLAIMED WATER SYSTEMS MANDATED BY THE STATE OF COLORADO WATER CONTROL DIVISION, "GUIDELINES FOR USE OF RECLAIMED WATER". LOCATOR TAPE TO BE ATTACHED DIRECTLY TO THE TOP OF THE MAINLINE AND BE MIN. 2" WIDTH, MAGNETIC BACKED, PURPLE COLORED w/ BLOCK LETTERING STATING: "RECLAIMED WATER - DO NOT DRINK". ALL CONTROL VALVE BOXES, GATE VALVE BOXES, QUICK COUPLER BOXES, AND SPRINKLER HEADS TO BE PURPLE IN COLOR TO INDICATE NON-POTABLE WATER.
- CONTRACTOR TO INSPECT SYSTEM w/ OWNER'S REPRESENTATIVE TO VERIFY CONDITION PRIOR TO CONSTRUCTION. DOCUMENT ANY ISSUES OR CONCERNS PRIOR TO START OF CONSTRUCTION AND NOTIFY OWNER IN WRITING.
- CONTRACTOR TO REPAIR DAMAGE TO EXISTING IRRIGATION SYSTEM IMMEDIATELY. ALL DAMAGE TO SOD OR PLANT MATERIAL DUE TO CONSTRUCTION ACTIVITIES OR LACK OF WATER TO BE REPLACED BY CONTRACTOR. CONTRACTOR TO PROVIDE ADEQUATE WATER TO EXISTING PLANT MATERIAL DURING DISTURBANCES IN WATER SUPPLY DUE TO CONSTRUCTION ACTIVITIES.
- PLAN PREPARED USING LIMITED ON-SITE OBSERVATION AND AS-BUILT DRAWINGS. PLAN IS DIAGRAMMATIC AND DOES NOT REFLECT ALL EQUIPMENT, ETC. THAT MAY BE ENCOUNTERED DURING CONSTRUCTION. ALL CONNECTION LOCATIONS, MAINLINE LOCATIONS AND OTHER CONDITIONS TO BE VERIFIED BY CONTRACTOR IN THE FIELD.

IRRIGATION CONSTRUCTION NOTES

- EXCAVATE AND EXPOSE END OF EXISTING 2" PVC CL 200 (VERIFY SIZE IN THE FIELD) IRRIGATION MAINLINE FROM PHASE 1 PROJECT IN THIS APPROXIMATE LOCATION. EXTEND NEW MAINLINE TO NEW VALVES LOCATIONS AS SHOWN.
- EXCAVATE AND EXPOSE END OF EXISTING IRRIGATION CONTROL WIRES AT END OF EXISTING MAINLINE LOCATION. CONNECT AND EXTEND EXISTING CONTROL WIRES TO NEW VALVE LOCATIONS. EXTEND (1) SPARE COMMON AND (2) SPARE STATION WIRES TO END OF MAINLINE. VERIFY EXISTING WIRES ADEQUATE FOR PROPOSED NEW VALVE LOCATIONS. COORDINATE w/ OWNER ON EXTENDING NEW CONTROL WIRES FROM CONTROLLER TO NEW VALVE LOCATIONS IF NECESSARY.
- EXCAVATE AND EXPOSE EXISTING IRRIGATION MAINLINE AT NEW VALVE LOCATIONS. INSTALL NEW TEE OFF MAINLINE TO CONNECT NEW VALVE. VERIFY EXISTING WIRES AVAILABLE FOR USE ON NEW VALVE. CONNECT EXISTING WIRE TO NEW VALVE. COORDINATE w/ OWNER ON EXTENDING NEW CONTROL WIRES FROM CONTROLLER TO NEW VALVE LOCATIONS IF NECESSARY. ADJUST VALVE STATION NUMBERS TO FOLLOW IN SEQUENCE FROM THE EXISTING PHASE 1 STATIONS STARTING w/ THE NEXT AVAILABLE STATION NUMBER ON THE CONTROLLER.

Prepared by:

SWCA
 ENVIRONMENTAL CONSULTANTS
 SWCA Environmental Consultants
 15 Research Drive
 Amherst, MA 01002
 (p) 413.256.0202
 (f) 413.256.1092
 www.swca.com

Prepared for:

RECREATION & PARK DISTRICT
 Meeker, Colorado
 101 UTE ROAD
 MEEKER, CO 81641

Irrigation Designed by:

LANDSCAPE 1
 LANDSCAPE DESIGN & CONSTRUCTION
 101 UTE ROAD
 MEEKER, CO 81641
 (970) 824-1118
 (970) 824-1119
 (970) 824-1120
 LandscapeTechnologyGroup.com

Stamp:

Project Title:
WHITE RIVER RIVERFRONT ENHANCEMENTS
 20 5TH STREET
 MEEKER, CO

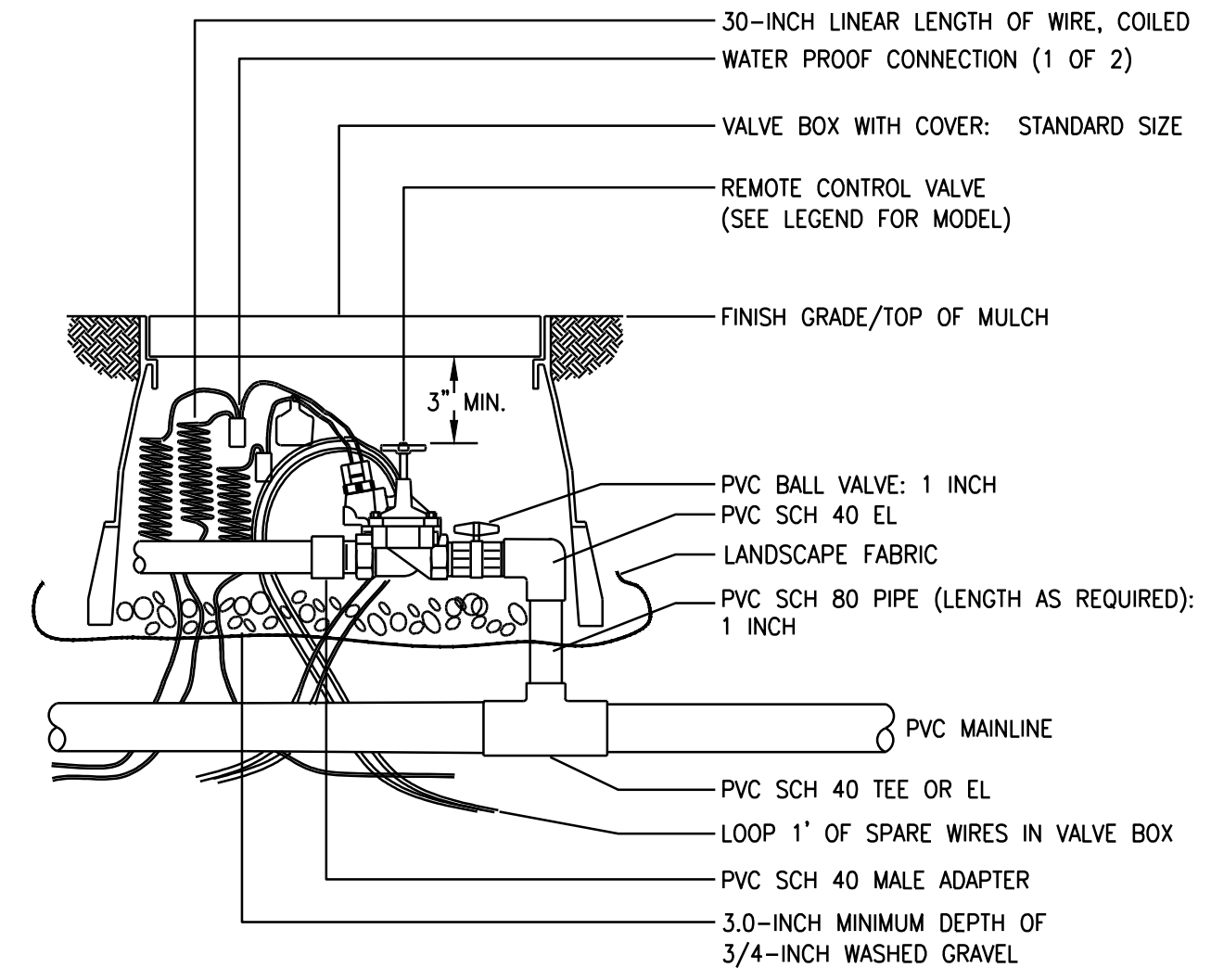
Sheet Title:
IRRIGATION LEGEND AND NOTES

Date:	01/05/2021
Scale:	As Shown
Drawn by:	TS
Checked by:	NG
File #	48063.00

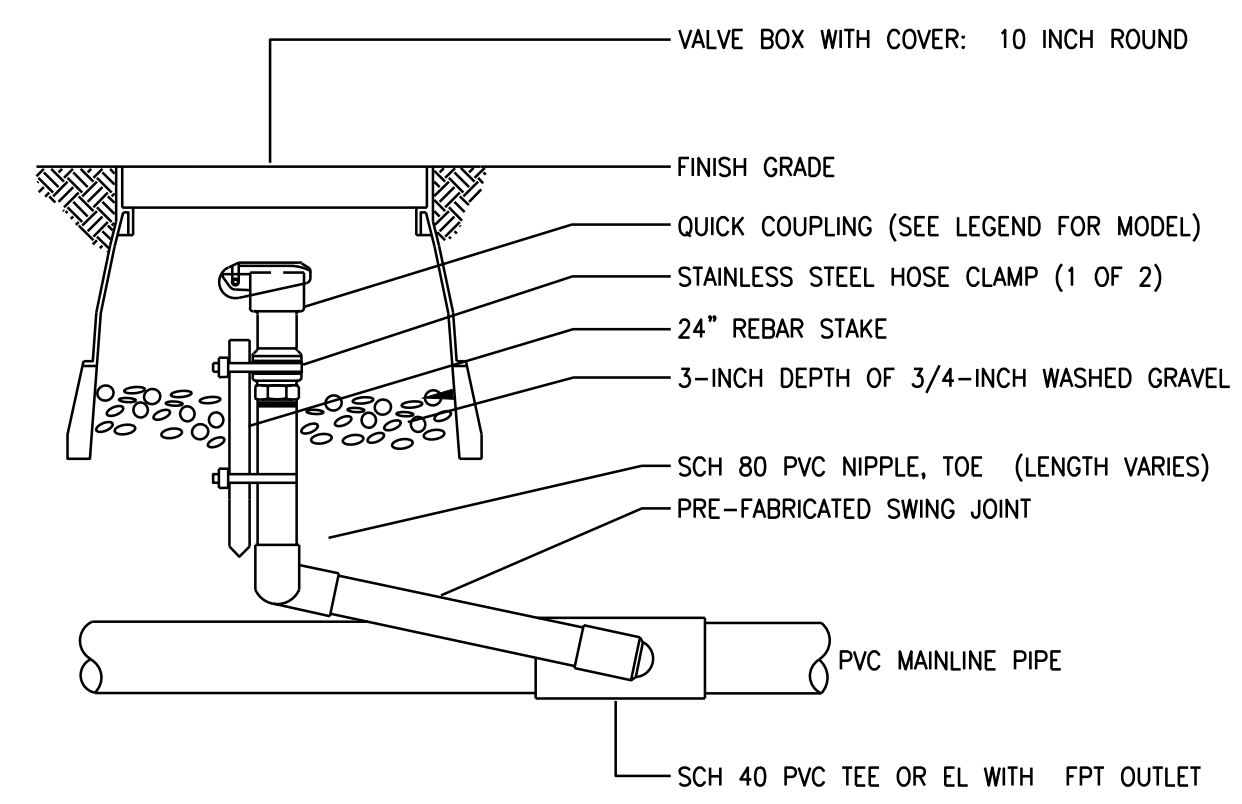
REVISIONS		
Date:	By:	Note:

Sheet No:
12.8

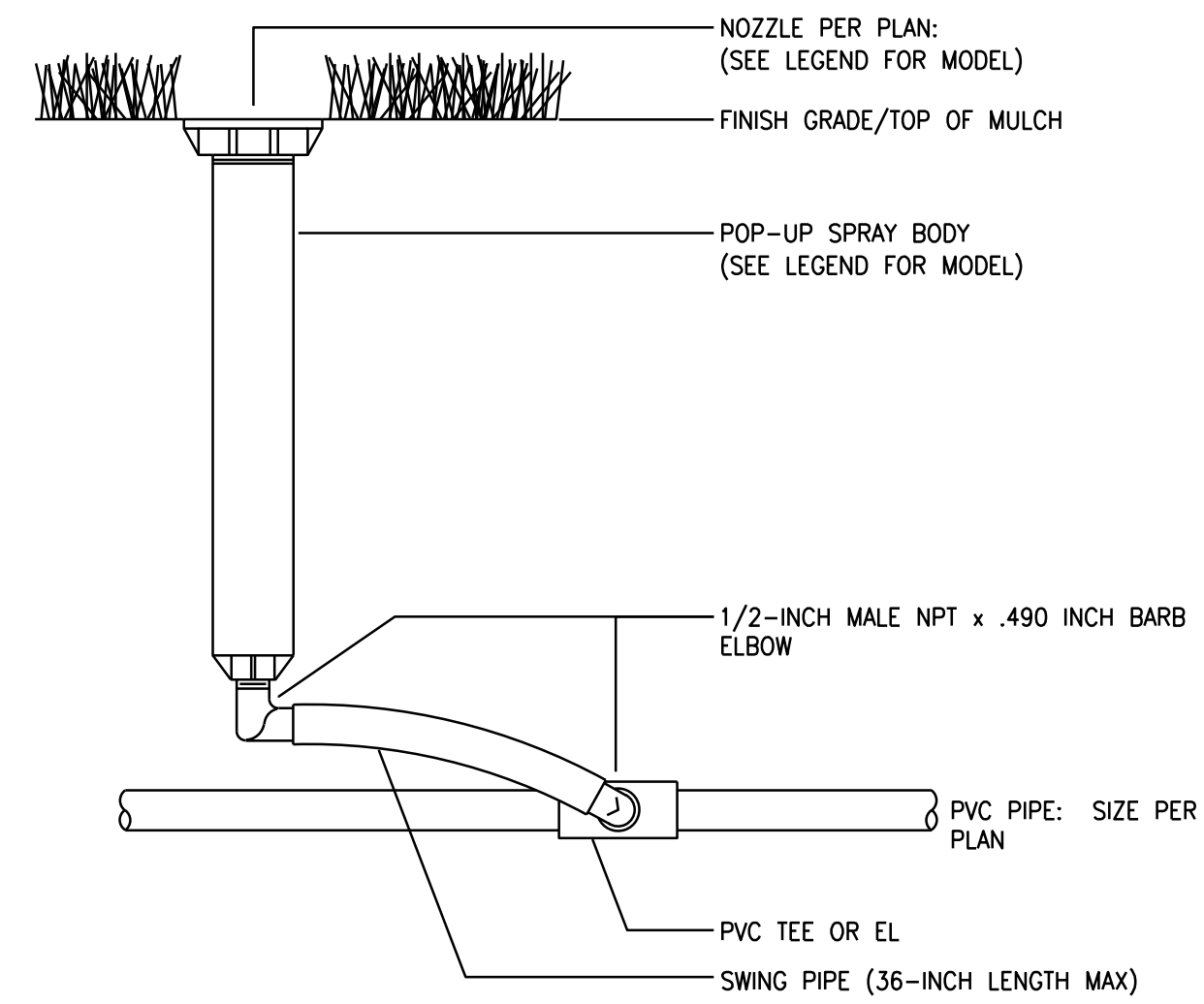




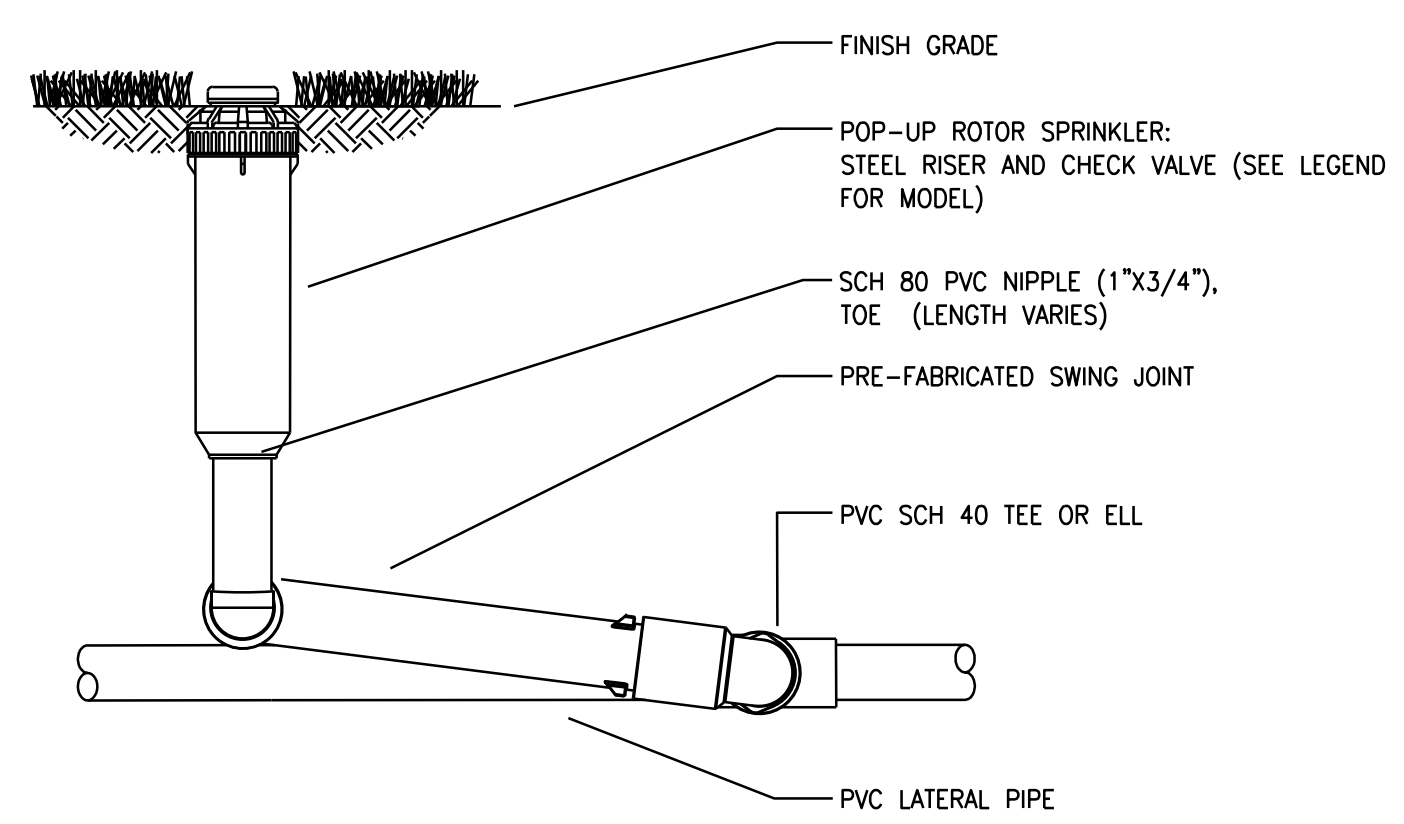
1 REMOTE CONTROL SPRAY VALVE ASSEMBLY
 NOT TO SCALE



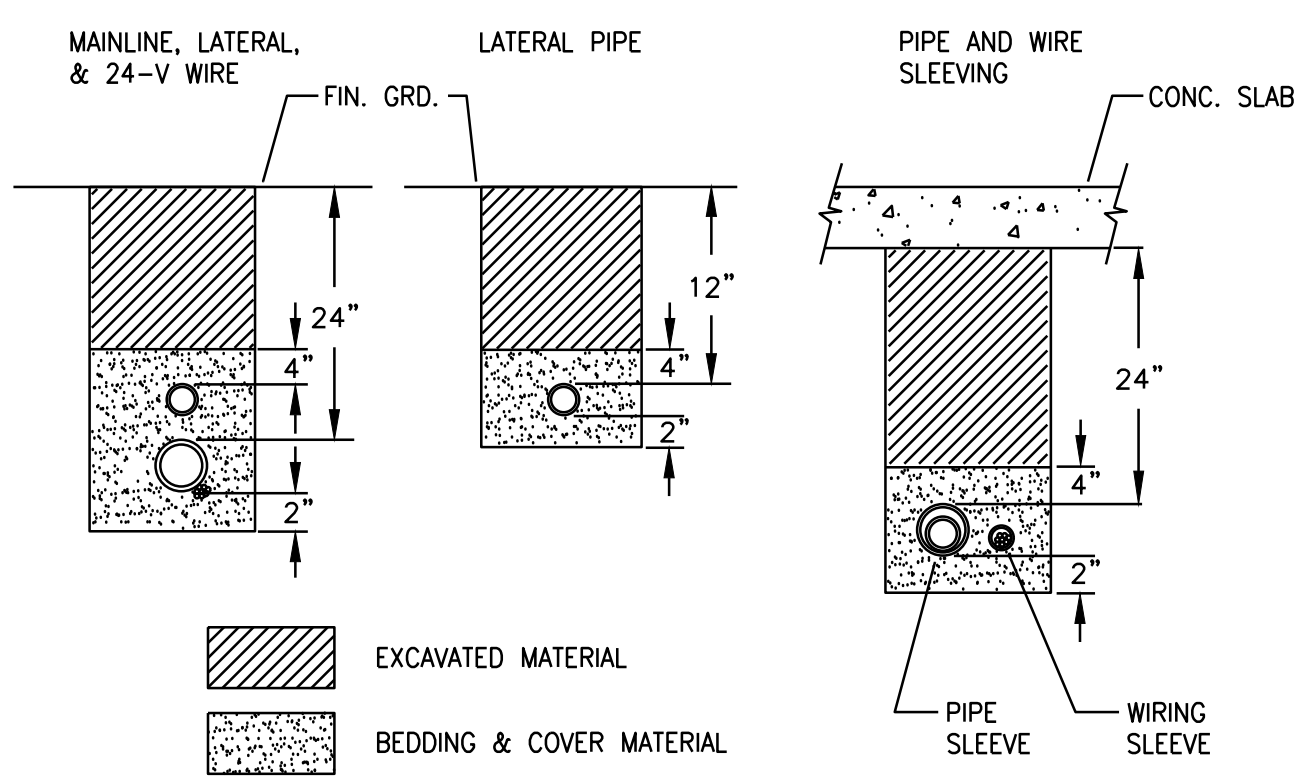
2 QUICK COUPLING VALVE ASSEMBLY
 NOT TO SCALE



3 POP-UP SPRAY SPRINKLER ASSEMBLY
 NOT TO SCALE

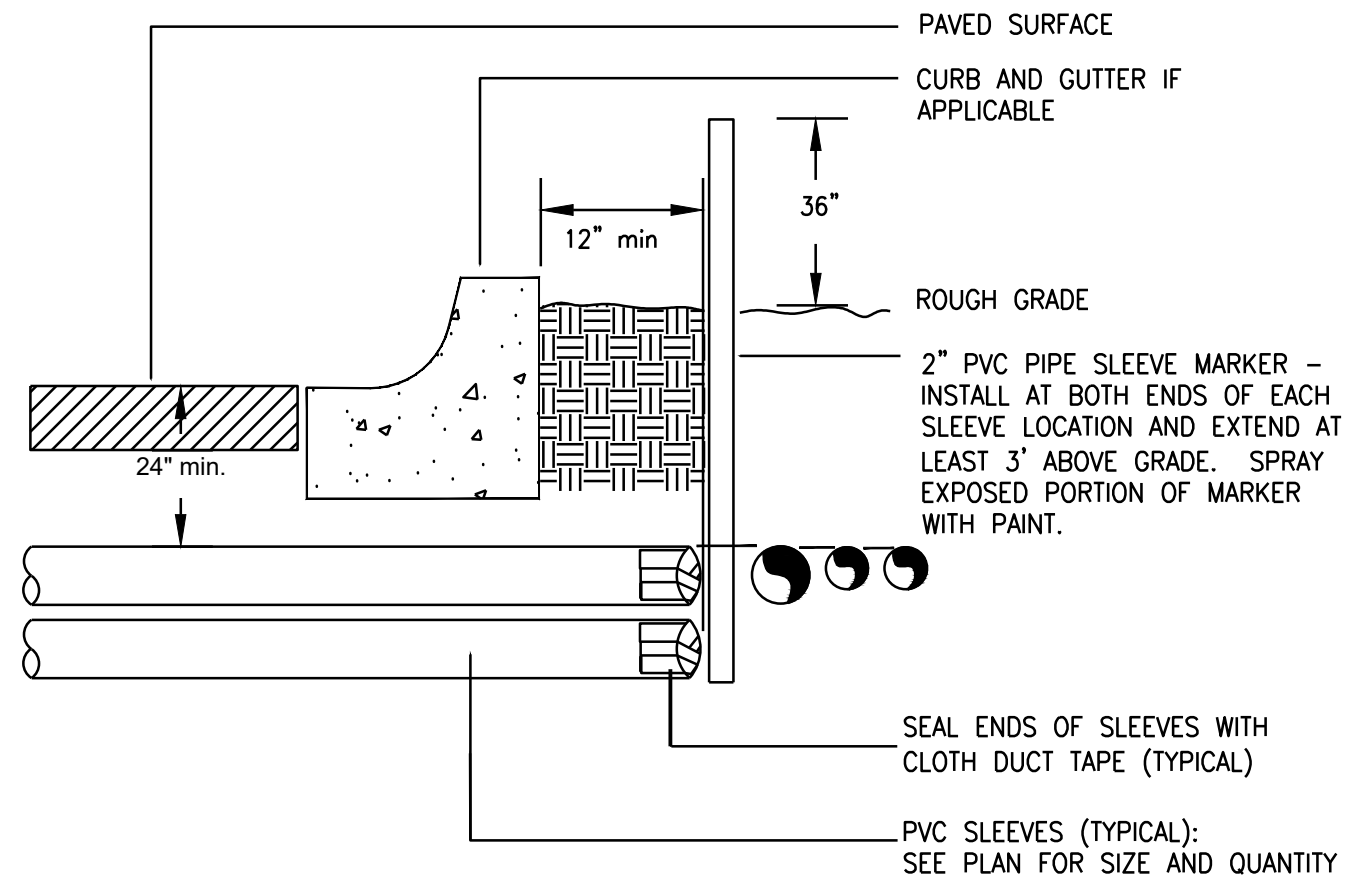


4 ROTOR SPRINKLER ASSEMBLY
 NOT TO SCALE



- NOTES:
 1. SLEEVE ALL PIPE AND WIRE SEPARATELY.
 2. ALL PIPE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. "SNAKE" UNSLEEVED PLASTIC PIPE IN TRENCH. PROVIDE A MINIMUM OF 2" CLEARANCE TO SIDE OF TRENCH AND BETWEEN PIPES.
 3. BEDDING MATERIAL TO BE EXCAVATED MATERIAL WITH ROCKS LARGER THAN 1" DIAMETER REMOVED.

5 TYPICAL TRENCHING DETAIL
 NOT TO SCALE



- NOTE:
 1) ALL SLEEVING TO BE CLASS 200 BE PVC, SIZED AS NOTED IN PLANS.
 2) INSATLL SLEEVES IN SIDE-BY-SIDE CONFIGURATION WHERE MULTIPLE SLEEVES ARE TO BE INSTALLED. DO NOT STACK SLEEVES VERTICALLY.

6 TYPICAL SLEEVING DETAIL
 NOT TO SCALE

Stamp:

Project Title:
WHITE RIVER RIVERFRONT ENHANCEMENTS
 20 5TH STREET
 MEEKER, CO

Sheet Title:
IRRIGATION DETAILS

Date:	01/05/2021
Scale:	As Shown
Drawn by:	TS
Checked by:	NG
File #	48063.00

REVISIONS		
Date:	By:	Note:

Sheet No:
 12.9



Know what's below
 Call before you dig.