BANDMANN FLATS TRAILHEAD MILLTOWN STATE PARK BONNER, MONTANA

GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS, SIXTH EDITION, APRIL 2010 AS AMENDED BY THE SPECIAL PROVISIONS IN THE PROJECT MANUAL.
- 2) CONTRACTOR SHALL FIELD VERIFY THE LOCATION, SIZE, AND DEPTH OF ALL UTILITIES INCLUDING ALL SERVICES TO ALL PROPERTIES. THESE DRAWINGS MAY NOT SHOW ALL FACILITIES. THE DEPTHS OF ALL EXISTING UTILITIES ARE UNKNOWN. BURIED UTILITIES SHOWN ON THIS SITE ARE BASED ON AVAILABLE RECORDS AND UTILITY LOCATOR PAINT MARKS. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION. CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM MISSOULA COUNTY, STATE OF MONTANA, AND UTILITY COMPANIES PRIOR TO STARTING WORK.
- ALL CONCRETE AREAS ARE DESIGNED TO HAVE A 2.0% MAXIMUM CROSS SLOPE UNLESS OTHERWISE SHOWN ON THE PLANS.
- 5) ALL MATERIALS AND WORKMANSHIP OF IMPROVEMENTS SHALL MEET OR EXCEED ADA AS WELL AS STATE AND LOCAL REGULATIONS. WHERE THERE IS A CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARD, THE HIGHER QUALITY STANDARD SHALL APPLY.
- 6) CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO BIDDING THE PROJECT AND BEGINNING CONSTRUCTION.
- 7) GRADING AND SLOPE INFORMATION PRESENTED IN THIS PLAN SET IS BASED ON DESIGN GRADES AND BEST AVAILABLE MAPPING INFORMATION. EXISTING ELEVATIONS AT TIE IN POINT ELEVATIONS SHALL BE VERIFIED PRIOR TO INSTALLATION OF EXTERIOR IMPROVEMENTS. NOTIFY ENGINEER IF DIFFERENT CONDITIONS ARE FOUND. CONTRACTOR RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE AND ADA COMPLIANCE FOR CONSTRUCTED IMPROVEMENTS.
- 8) THIS PLAN IS TO BE USED TO ASSIST THE CONTRACTOR IN HORIZONTAL LOCATION DURING THE STAKING AND LAYOUT. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCY BETWEEN THE GIVEN DATA AND THE INTENT SHOWED BY THE DRAWINGS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR CLARIFICATION.

QUALITY ASSURANCE

5/11/21

QA APPROVAL DATE

76507

CITY PROJECT NUMBER

19-06-29

WGM PROJECT NUMBER

WGM GROUP

JLG

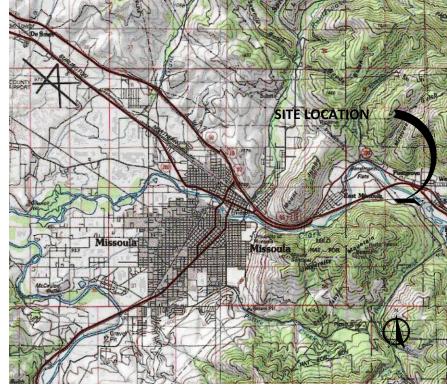
PROJECT MANAGER

QUALITY ASSURANCE COORDINATO

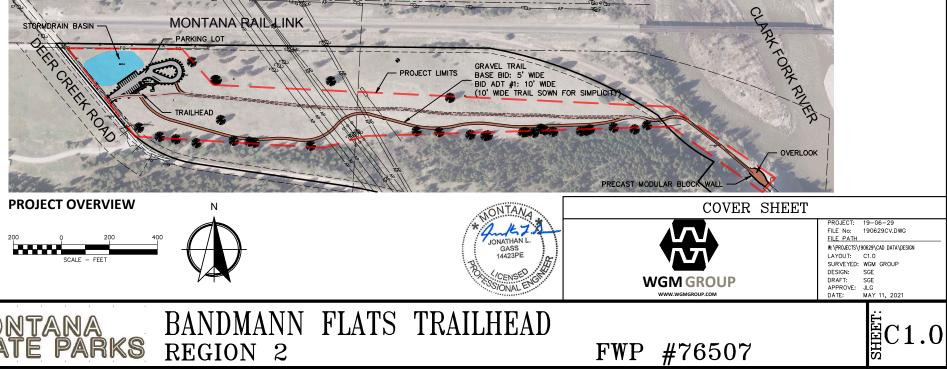
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DRAWN BY	: DATE:	REVISED BY: DATE:	APPROVED BY: DATE	BANDMANN	FLATS	TRAILHEAD
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SHEET INDEX

SHEET	DESCRIPTION
C1.0	COVER SHEET
C1.1	GENERAL NOTES AND SYMBOLS
C1.2	EXISTING CONDITIONS
C1.3	DEMOLITION PLAN
C1.4	DEMOLITION PLAN
C2.0	SITE AND GRADING PLAN
C2.1	SITE AND GRADING PLAN
C3.0	TAIL HEAD DETAILED SITE PLAN
C4.0	DETAILED TAIL HEAD GRADING PLAN
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C6.0	DETAILS
C6.1	DETAILS
C6.2	PRECAST MODULAR BLOCK WALL DETAIL
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C6.4	DETAILS
C7.0	PRELIMINARY EROSION CONTROL PLAN
C7.1	PRELIMINARY EROSION CONTROL DETAILS

GENERAL NOTES - EXISTING CONDITIONS:

- NOT ALL NOT ALL EXISTING SITE CONSTRUCTION AND ELEMENTS ARE SHOWN ON DRAWING. CONTRACTOR TO VISIT SITE AND FAMILIARIZE THEMSELVES WITH NEW CONSTRUCTION PLANS FOR ALL REQUIRED DEMOLITION. DRAWINGS ARE DIAGRAMMATIC.
- 2. EXISTING UNDERGROUND INSTALLATIONS AND PRIVATE UTILITIES SHOWN ARE FROM THE BEST INFORMATION AVAILABLE AT THE TIME OF DESIGN. ACCURACY OF SUCH INFORMATION IS NOT GUARANTEED AND SHALL BE VERIFIED BY THE CONTRACTOR. SERVICE LINES (i.e. WATER, POWER, SEWER, GAS, COMMUNICATIONS, DATA, IRRIGATION) MAY NOT BE BURIED AT EVEN DEPTHS OR AS INDICATED ON THE PLANS. THE CONTRACTOR SHALL NOTIFY EACH UTILITY COMPANY PRIOR TO EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY LOCATES.THESE DRAWINGS MAY NOT SHOW ALL FACILITIES WITHIN THE PROJECT LIMITS.
- 3. ALL POWER. TELEPHONE. AND OTHER UTILITIES WHICH ARE NOT PLANNED TO BE RELOCATED, WHICH INTERFERE WITH THE CONSTRUCTION SHALL BE REMOVED OR RELOCATED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE THE WORK WITH THE APPROPRIATE UTILITY COMPANY.
- 4. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.

SURFACE RESTORATION NOTES:

- 1. RESTORE ALL DISTURBED AREAS WITH GRASS SEED. PROVIDE FOREST MIX: 40% MOUNTAIN BROME, 35% BLUEBUNCH WHEATGRASS, 15% WESTERN WHEATGRASS, AND 10% ROUGH FESCUE. BROADCAST SEED AT 5 LB5/1,000 SF. SEEDING TO OCCUR BETWEEN OCTOBER 15 AND MAY 15 TO ALLOW ESTABLISHMENT FROM NATURAL PRECIPITATION. PROVIDE A MINIMUM 6" DEPTH OF TOPSOIL FOR ALL AREAS TO RECEIVE SEED. TOPSOIL TO BE GENERATED FROM ONSITE EXCESS.
- 2. ALL DISTURBED AND GRADED AREAS THAT DO NOT HAVE OTHER PLANNED FINISH SURFACES SHALL BE FINISHED WITH A MINIMUM OF 6" OF TOPSOIL GENERATED FROM THE SITE. TOPSOIL MAY BE THICKER, IF APPROVED BY THE ENGINEER, TO WASTE EXCESS TOPSOIL. TOPSOIL SHALL BE UNIFORMLY GRADED AND RACKED PRIOR TO SEEDING.

SURVEY NOTES:

- 1. BASIS OF BEARINGS:
- GRID NORTH OF MONTANA STATE PLANE COORDINATE SYSTEM (FIPS2500) NADB3(2011)(EPOCH: 2010.0000) 2. VERTICAL DATUM:
- NORTH AMERICAN VERTICAL DATUM OF 1988
- 3. BOUNDARY LINE WORK SHOWN HEREON IS RECORD PER CERTIFICATE OF SURVEY NO. 6283, TRANSLATED AND ROTATED TO FOUND MONUMENTS AND IS TO BE USED FOR MAPPING/PLANNING PURPOSES.

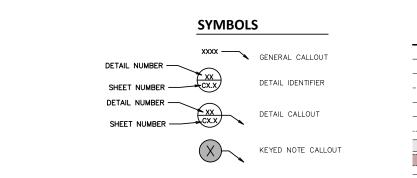
COUNTY APPROACH PERMIT:

- 1. CONTRACTOR TO OBTAIN APPROACH PERMIT FROM MISSOULA COUNTY PRIOR TO START OF CONSTRUCTION.
- 2. ALL APPROACH WORK, CONSTRUCTION AND DETAIL SHALL BE AS SPECIFIED IN THE COUNTY APPROACH PERMIT.

ON-SITE SPECIAL BORROW FOR EMBANKMENT:

1. THE DRAINAGE BASIN IS DESIGNATED AS AN ON-SITE SPECIAL BORROW AREA FOR NECESSARY EMBANKMENT. THE BOTTOM OF THE BASIN (ELEVATION 3267) SHALL BE UNIFORMLY OVEREXCAVARTED TO GENERATE SUITABLE EMBANKMENT MATERIAL FOR USE IN THE ACCESS ROAD, PARKING LOT AND TRAIL AREAS. ONCE OVEREXCAVATION IS COMPLETE FOR GENERATING SUITABLE BORROW MATERIAL, THE BOTTOM AND SIDES OF THE BORROW AREA/DRAINAGE BASIN SHALL BE UNIFORMLY GRADED AND FINSHED PER THE SURFACE RESTORATION NOTES. SLOPES AROUND THE DRAINAGE BASIN SHALL BE FINISHED PET A 12:1 SLOPE. THE BOTTOM ELEVATION OF THE DRAINAGE BASIN MAY BE LESS THAN THE PLANNED ELEVATION OF 3267.

ABBREVIATIONS



GENERAL NOTES - SITE GRADING:

- 1. GRADING AND SLOPE INFORMATION PRESENTED ON THESE PLANS IS BASED ON DESIGN GRADES AND BEST AVAILABLE MAPPING INFORMATION. EXISTING ELEVATIONS AT TIE IN POINTS AND AS-CONSTRUCTED FINISH FLOOR ELEVATIONS SHALL BE VERIFIED PRIOR TO INSTALLATION OF EXTERIOR IMPROVEMENTS. NOTIFY ENGINEER IF DIFFERENT CONDITIONS ARE FOUND. CONTRACTOR RESPONSIBLE FOR ENSURING FOSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS. CONTRACTOR ALSO RESPONSIBLE FOR ADA COMPLIANCE FOR CONSTRUCTED IMPROVEMENTS.
- 2. WHERE NEW CURB AND GUTTER, ASPHALT OR CONCRETE SURFACE IS BEING CONSTRUCTED ADJACENT TO EXISTING ASPHALT OR CONCRETE PAVEMENT, THE FOLLOWING SHALL APPLY: PRIOR TO PLACEMENT OF ANY SURFACE IMPROVEMENTS THE CONTRACTOR SHALL HAVE ENGINEER ENGINEER EVERIFY THE GRADE AND CROSS SLOPE OF EXISTING SURFACE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY SECTION WHICH DOES NOT CONFORM TO THE DESIGN OR TYPICAL CROSS SECTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR NEW IMPROVEMENT CONSTRUCTION WITHOUT THE APPROVAL OF THE ENGINEER.
- 3. THIS PLAN IS TO BE USED TO ASSIST THE CONTRACTOR IN HORIZONTAL LOCATION DURING THE STAKING AND LAYOUT. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCY BETWEEN THE GIVEN DATA AND THE INTENT AS SHOWN BY THE DRAWING, THE CONTRACTOR SHALL CONTACT THE ROWINER FOR CLARIFICATION.
- 4. ENSURE ALL SURFACES ADJACENT TO BUILDING ARE GRADED AND FINISHED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING FOUNDATION AND EXTERIOR WALLS.
- ENSURE HARDSCAPE AND/OR LANDSCAPE SURFACES SURROUNDING DRAINAGE INTAKES PROVIDE POSITIVE DRAINAGE TOWARDS THE INTAKE.
- ENSURE ACCESSIBLE PARKING SPACES ARE IN COMPLIANCE WITH ADA STANDARDS. ENSURE ALL SLOPES ARE LESS THAN 2% IN ALL DIRECTIONS.
- 7. ENSURE ACCESSIBLE ROUTE TO BUILDINGS COMPLY WITH ALL ADA REQUIREMENTS: LANDING AREAS-LESS THAN 2% SLOPE IN ALL DIRECTIONS, OTHER AREAS-LESS THAN 5% RUNNING SLOPE AND LESS THAN 2% CROSS SLOPE.

ø	DIAMETER	DEPT	DEPARTMENT	G	GAS	N	NORTH	SECT	SECTION
)	AT	BLS	DRILL HOLE (SOIL BORING)	GA	GAUGE	N.I.C.	NOT IN CONTRACT	SF	SQUARE FOOT/FEET
В	ANCHOR BOLT, AGGREGATE BASE	DL	DUCTILE IRON, DRAIN INLET	GALV	GALVANIZED	NO.	NUMBER	SS	SANITARY SEWER, STAINLESS STEEL
2	ASBESTOS CEMENT	DIA	DIAMETER	GPM	GALLONS PER MINUTE	NPT	NATIONAL PIPE THREAD	STA	STATION
FF	ABOVE FINISHED FLOOR	DIMJ	DUCTILE IRON MECHANICAL JOINT	GSP	GALVANIZED STEEL PIPE	NTS	NOT TO SCALE	STD	STANDARD
_	ALUMINUM	DIP	DUCTILE IRON PIPE	GV	GATE VALVE			STI	STEEL, STEEL PIPE
NC NC	ANCHOR	DR	DRAIN, DIMENSION RATIO	•		OAL	OVERALL LENGTH	SIL	
VSI	AMERICAN NATIONAL STANDARDS INSTITUTE	DWG	DRAWING	HD	HEAVY DUTY; HOT-DIPPED	OC	ON CENTER	т	TELEPHONE
PROX	APPROXIMATELY	0110	BIOTANINO	HDR	HEADER	OD	OUTSIDE DIAMETER	твс	TOP OF BACK CURB
WWA	AMERICAN WATER WORKS ASSOCIATION	EA	EACH	HDPE	HIGH DENSITY POLYETHYLENE PIPE	OF	OUTSIDE FACE. OVERFLOW	TBM	TEMPORARY BENCH MARK
		EFF	EFFLUENT	HGT	HEIGHT	OH	OVERHEAD POWER	TEMP	TEMPERATURE, TEMPORARY
F	BLIND FLANGE	ELEV	ELEVATION	HT	HEIGHT	0.1	overhend i onen	TOW	TOP OF WALL
F	BELOW FINISH FLOOR	EVC	END VERTICAL CURVE	HYD	FIRE HYDRANT	PC	POINT OF CURVATURE	TP	TEST PIT
FV	BUTTERFLY VALVE	EW	EACH WAY	nib	TINE THERMAN	PE	PLAIN END	TV	CABLE TELEVISION
LDG	BUILDING	EXT	EXTERIOR	IBC	INTERNATIONAL BUILDING CODE	PH	PHONE	TYP	TYPICAL
M	BENCH MARK	EXIST	EXISTING	ID	INSIDE DIAMETER	PL	PROPERTY LINE, PLATE	TIP	TIPICAL
0C	BACK OF CURB	EXIST	EXISTING	IN	INCH	PI	POINT OF INTERSECTION	UG	UNDERGROUND
V	BALL VALVE	FAB	FABRICATION	INFI	INFLUENT	PROP	PROPERTY, PROPOSED	UGP	UNDERGROUND POWER
v vC	BEGIN VERTICAL CURVE	FAB	FLEXIBLE COUPLING	INT	INTERIOR, INTERSECTION	PSI	POUNDS PER SQUARE INCH	UPC	UNIFORM PLUMBING CODE
VC	BEGIN VERTICAL CORVE	FCA		INV	INVERT	PT	POINT OF TANGENCY	UPC	UNIFORM PLUMBING CODE
	CHANNEL, CENTER		FLANGED COUPLING ADAPTER	IIN V	INVERT	PVC	POLYVINYL CHLORIDE PLASTIC		
	CAST IRON, CURB INLET	FDN	FOUNDATION	10(0)		PVC	POINT OF VERTICAL INTERSECTION	V	VENT, VOLT, VALVE
Р	CAST IRON, CORB INLET CAST IRON PIPE, CAST-IN-PLACE	FETS	FLARED END TERMINAL SECTION	LB(S)	POUND(S)	PVI	POINT OF VERTICAL INTERSECTION	VERT	VERTICAL
IP IPP		FF	FINISHED FLOOR	LF	LINEAL FOOT, LINEAR FEET		RADIUS	VLV	VALVE
	CURED-IN-PLACE PIPE	FG	FINISH GRADE	LT	LEFT	R			
,_CL	CENTERLINE	FL	FLOOR, FLANGE, FLOW LINE			RCB	REINFORCED CONCRETE BOX	W	WATER, WEST
R	CLEAR	FM	FORCE MAIN	MAX	MAXIMUM	RCP	REINFORCED CONCRETE PIPE	W/	WITH
ИР	CORRUGATED METAL PIPE	FO	FIBER OPTIC	MC	MECHANICAL COUPLING	ROW	RIGHT-OF-WAY	w/o	WITHOUT
0	CLEANOUT	FOC	FACE OF CURB, FACE OF CONCRETE	MDT	MONTANA DEPT. OF TRANSPORTATION	RT	RIGHT	WS	WATER SURFACE, WATER STOP
P	CONTROL POINT	FPT	FEMALE PIPE THREAD	MECH	MECHANICAL	RW	RIGHT-OF-WAY. RACEWAY	wv	WATER VALVE
PE	CORRUGATED POLYETHYLENE PIPE	FTG	FOOTING	MFR	MANUFACTURER	R/W	RIGHT-OF-WAY	WWF	WELDED WIRE FABRIC GAS
PLG	COUPLING	FT	FOOT, FEET	MH	MANHOLE				14423
PVC	CHLORINATED POLYVINYL CHLORIDE			MIN	MINIMUM, MINUTE	S	SLOPE	х	USED AS A VARIABLE
SP	CORRUGATED STEEL PIPE			MJ	MECHANICAL JOINT	SCH	SCHEDULE		YARD
V	CHECK VALVE			MPWSS	MONTANA PUBLIC WORKS STANDARD	SD	STORM DRAIN	YD	YARD
Ý	CUBIC YARDS				SPECIFICATIONS	SDR	STANDARD DIMENSION RATIO		SONA
								T T	
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LEGEND-EXISTING

- SUBJECT PROPERTY BOUNDARY
- _____ - _____ RIGHT-OF-WAY
- ---- EASEMENT LINE
- _____ LOT LINE
- ------ EDGE OF ASPHALT
- ----- EDGE OF GRAVEL
 - ASPHALT SURFACE
 - GRAVEL SURFACE
 - AERIAL POWER LINE
 - BURIED FIBER OPTIC
- _____ G _____ GAS MAIN
- _____ x _____ x ____ FENCE
- CONTOUR (1 FOOT INTERVAL)
- EDGE OF TRAIL LINE
 - UTILITY POLE
 - G- GUY WIRE
 - EVERGREEN TREE (SIZE AS NOTED)
 - DRIP LINE OF TREE
 - SIGN

*

STP # 🖵

- TEMPORARY BENCH MARK
 - SOIL TEST PIT

LEGEND-PROPOSED

	EDGE OF ASPHALT
	BUILDING SURFACE
	4" THICK CONCRETE SIDEWALK
	GRAVEL SURFACE
	ASPHALT SURFACE
	RETAINING WALL (SEE STRUCTURAL)
>	SWALE
,	SWALE DRAINAGE RETENTION AREA
	DRAINAGE RETENTION AREA
	DRAINAGE RETENTION AREA

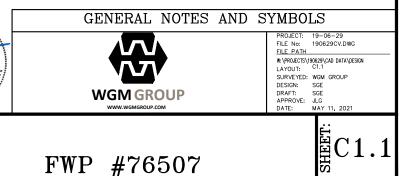
SOIL TEST PIT							
DEPTH (FT) STP #1 STP #2 STP #3							
0 - 1.5	TOP SOIL	TOP SOIL	TOP SOIL				
1.5 – 2.5	DARK BROWN GRAVEL/COBBLES SANDY LOAM COURSE FRAGMENTS	DARK BROWN GRAVEL/COBBLES SANDY LOAM COURSE FRAGMENTS	SANDY LOAM				
2.5 - 4.5	DARK BROWN GRAVEL/COBBLES SANDY LOAM COURSE FRAGMENTS	DARK BROWN GRAVEL/COBBLES SANDY LOAM COURSE FRAGMENTS	DARK BROWN GRAVEL/COBBLES SANDY LOAM COURSE FRAGMENTS				

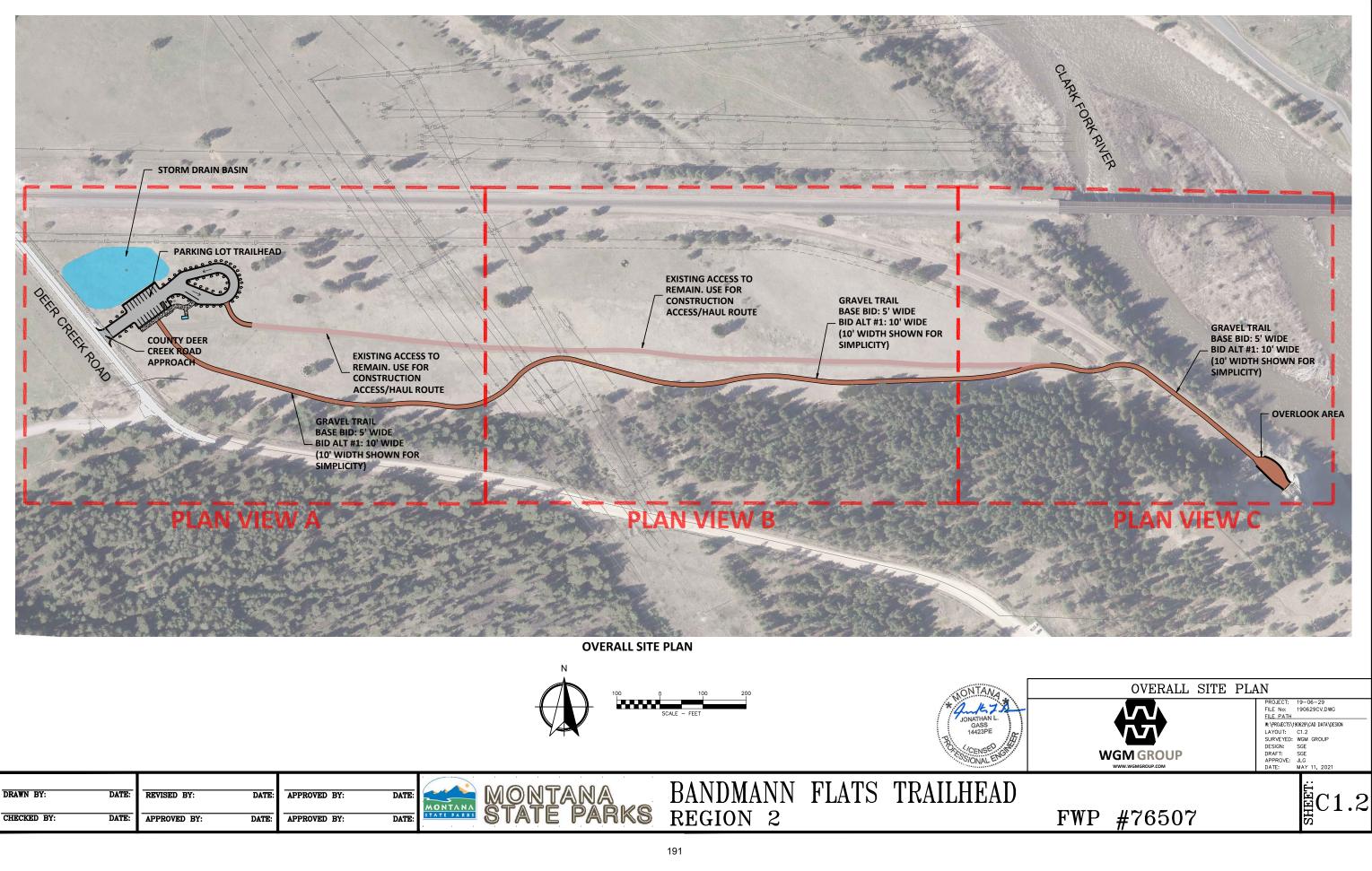


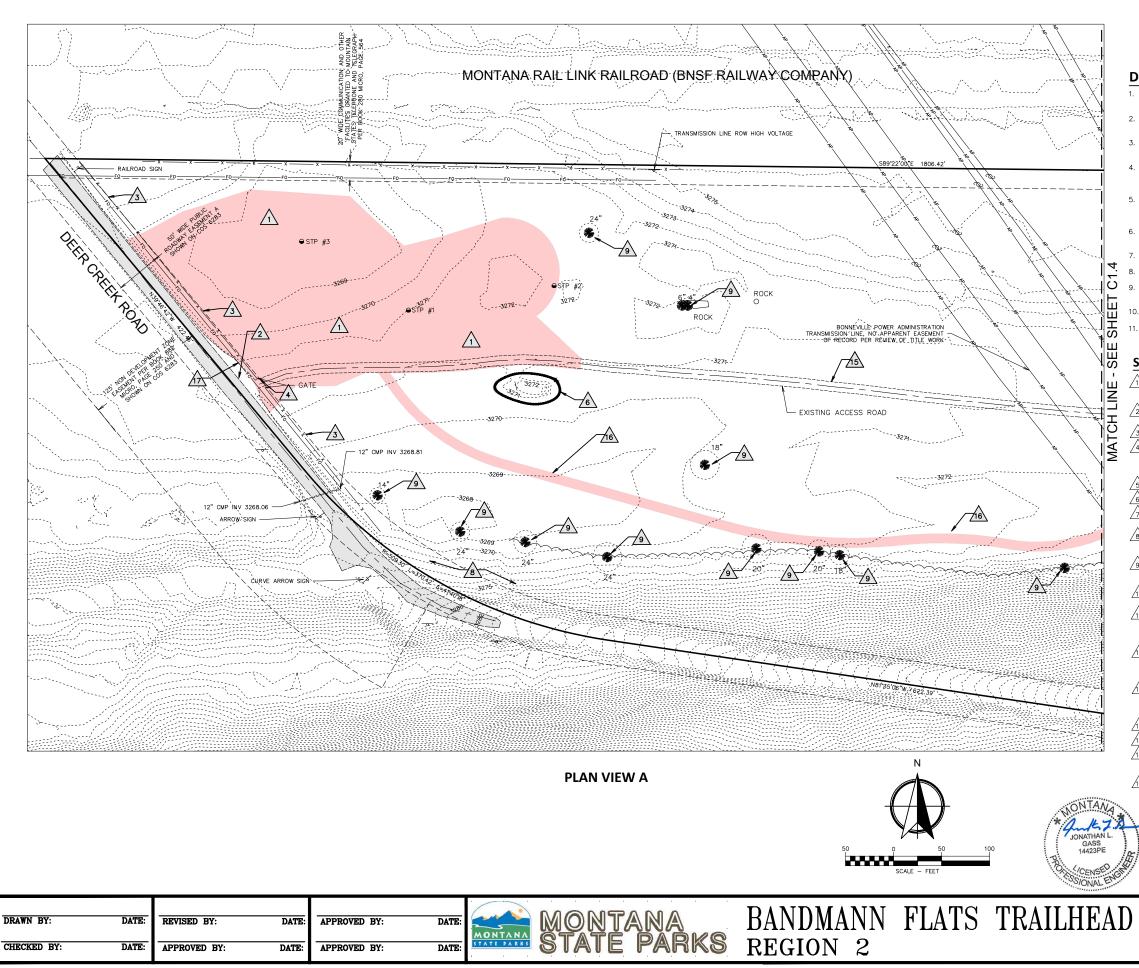
Know what's below. Call before you dig.

CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

MEMBER UTILITIES. WGM GROUP, INC. ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL AND VERTICAL). THE EXISTING UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOITED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITES PRIOR TO THE COMMECAUENT OF ANY CONSTRUCTION ACTIVITIES.







LEGEND-DEMOLITION

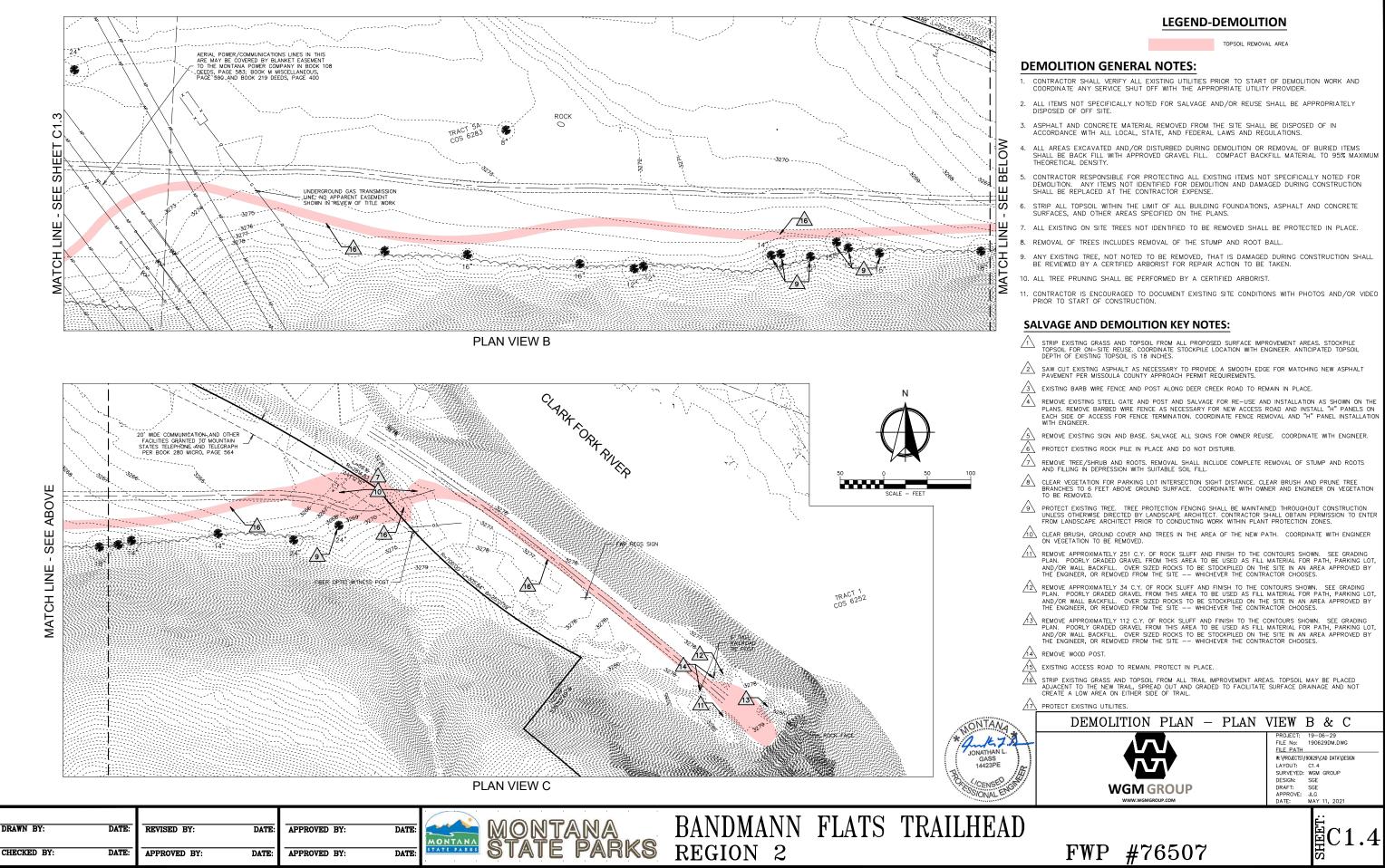
TOPSOIL REMOVAL AREA

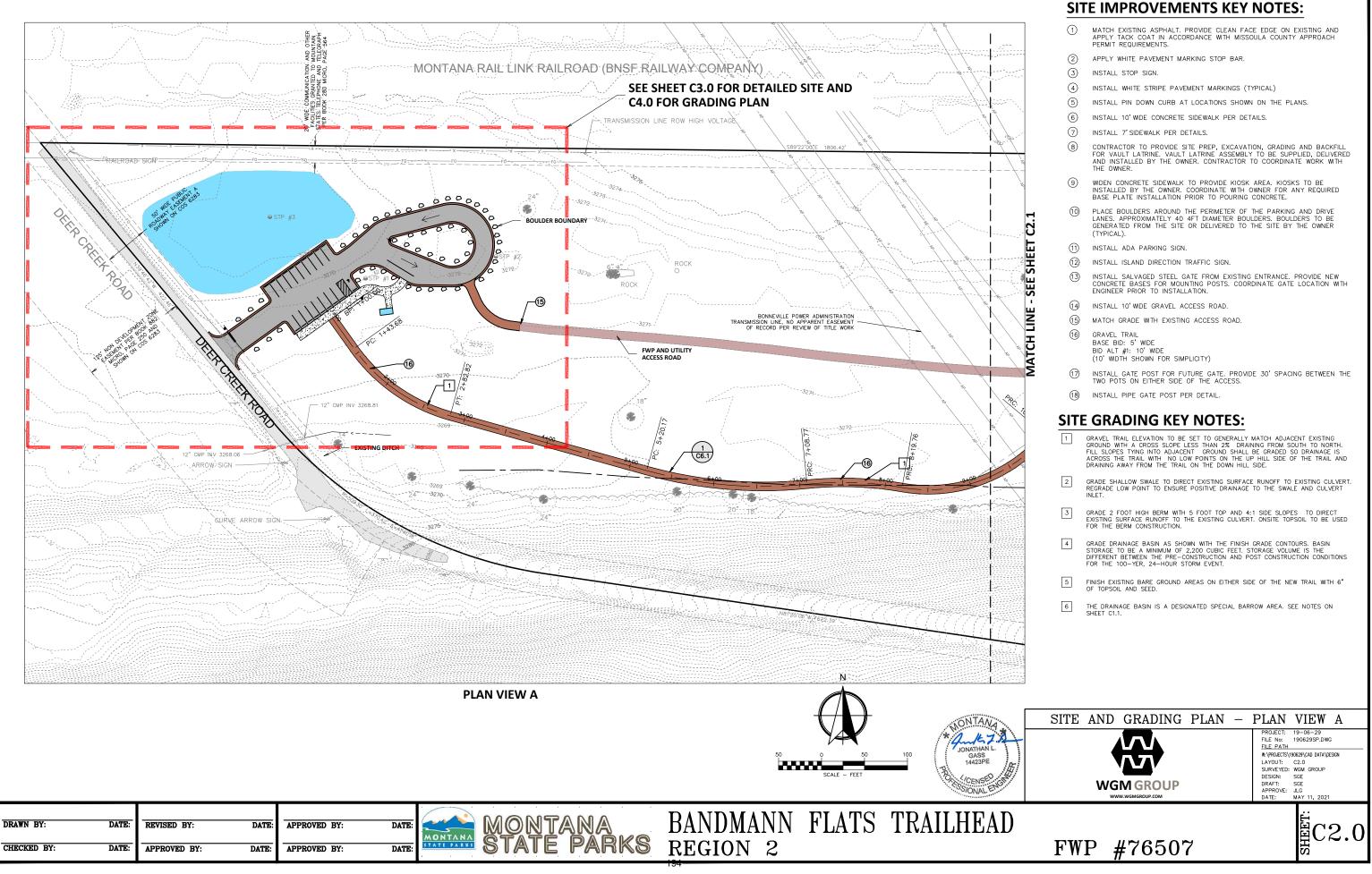
DEMOLITION GENERAL NOTES:

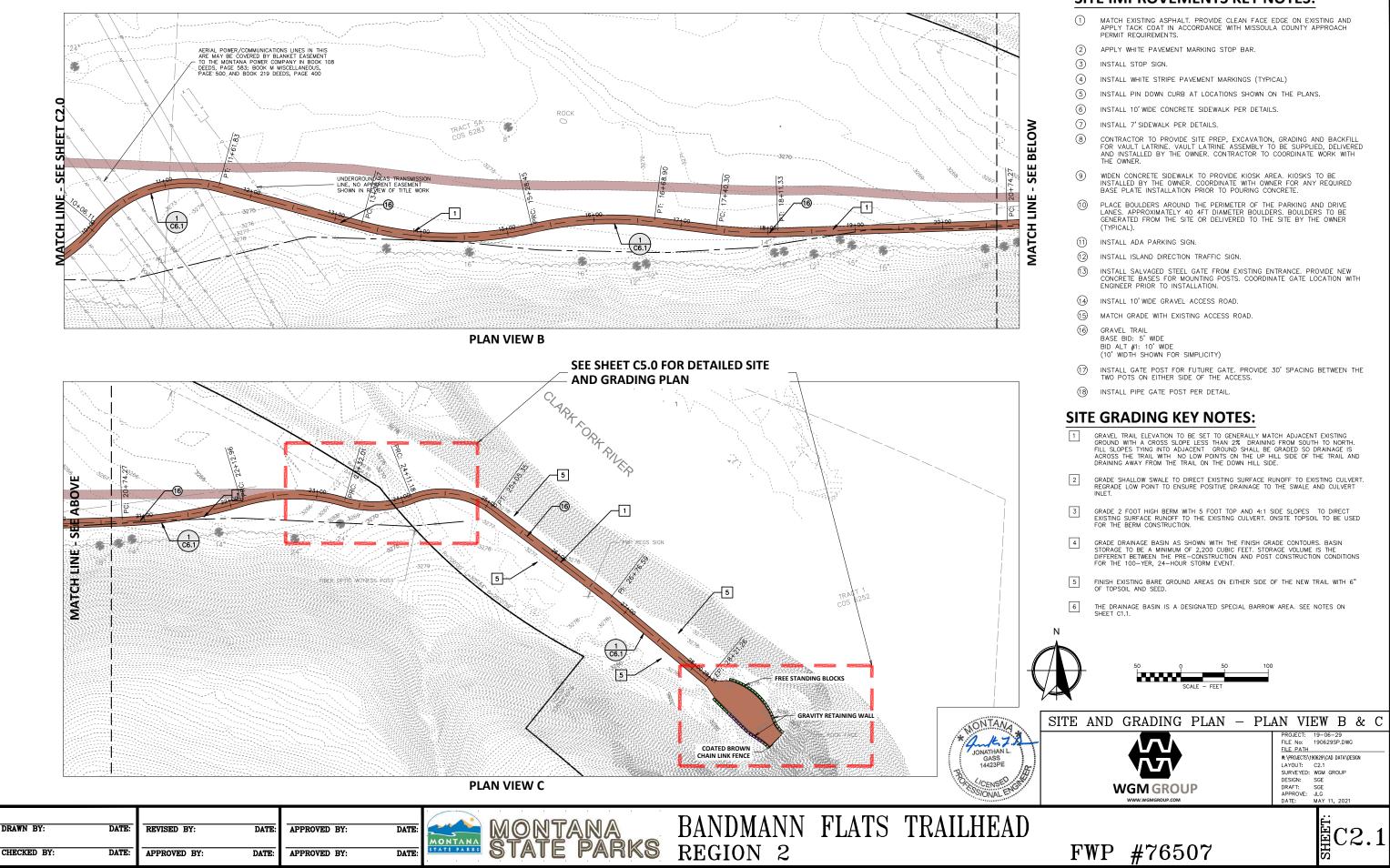
- CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO START OF DEMOLITION WORK AND COORDINATE ANY SERVICE SHUT OFF WITH THE APPROPRIATE UTILITY PROVIDER.
- 2. ALL ITEMS NOT SPECIFICALLY NOTED FOR SALVAGE AND/OR REUSE SHALL BE APPROPRIATELY DISPOSED OF OFF SITE.
- 3. ASPHALT AND CONCRETE MATERIAL REMOVED FROM THE SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.
- ALL AREAS EXCAVATED AND/OR DISTURBED DURING DEMOLITION OR REMOVAL OF BURIED ITEMS SHALL BE BACK FILL WITH APPROVED GRAVEL FILL. COMPACT BACKFILL MATERIAL TO 95% MAXIMUM THEORETICAL DENSITY.
- CONTRACTOR RESPONSIBLE FOR PROTECTING ALL EXISTING ITEMS NOT SPECIFICALLY NOTED FOR DEMOLITION. ANY ITEMS NOT IDENTIFIED FOR DEMOLITION AND DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR EXPENSE.
- 6. STRIP ALL TOPSOIL WITHIN THE LIMIT OF ALL BUILDING FOUNDATIONS, ASPHALT AND CONCRETE SURFACES, AND OTHER AREAS SPECIFIED ON THE PLANS.
- 7. ALL EXISTING ON SITE TREES NOT IDENTIFIED TO BE REMOVED SHALL BE PROTECTED IN PLACE.
- 8. REMOVAL OF TREES INCLUDES REMOVAL OF THE STUMP AND ROOT BALL.
- 9. ANY EXISTING TREE, NOT NOTED TO BE REMOVED, THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REVIEWED BY A CERTIFIED ARBORIST FOR REPAIR ACTION TO BE TAKEN.
- 10. ALL TREE PRUNING SHALL BE PERFORMED BY A CERTIFIED ARBORIST.
- 11. CONTRACTOR IS ENCOURAGED TO DOCUMENT EXISTING SITE CONDITIONS WITH PHOTOS AND/OR VIDEO $\ensuremath{\mathsf{PRIOR}}$ TO START OF CONSTRUCTION.

SALVAGE AND DEMOLITION KEY NOTES:

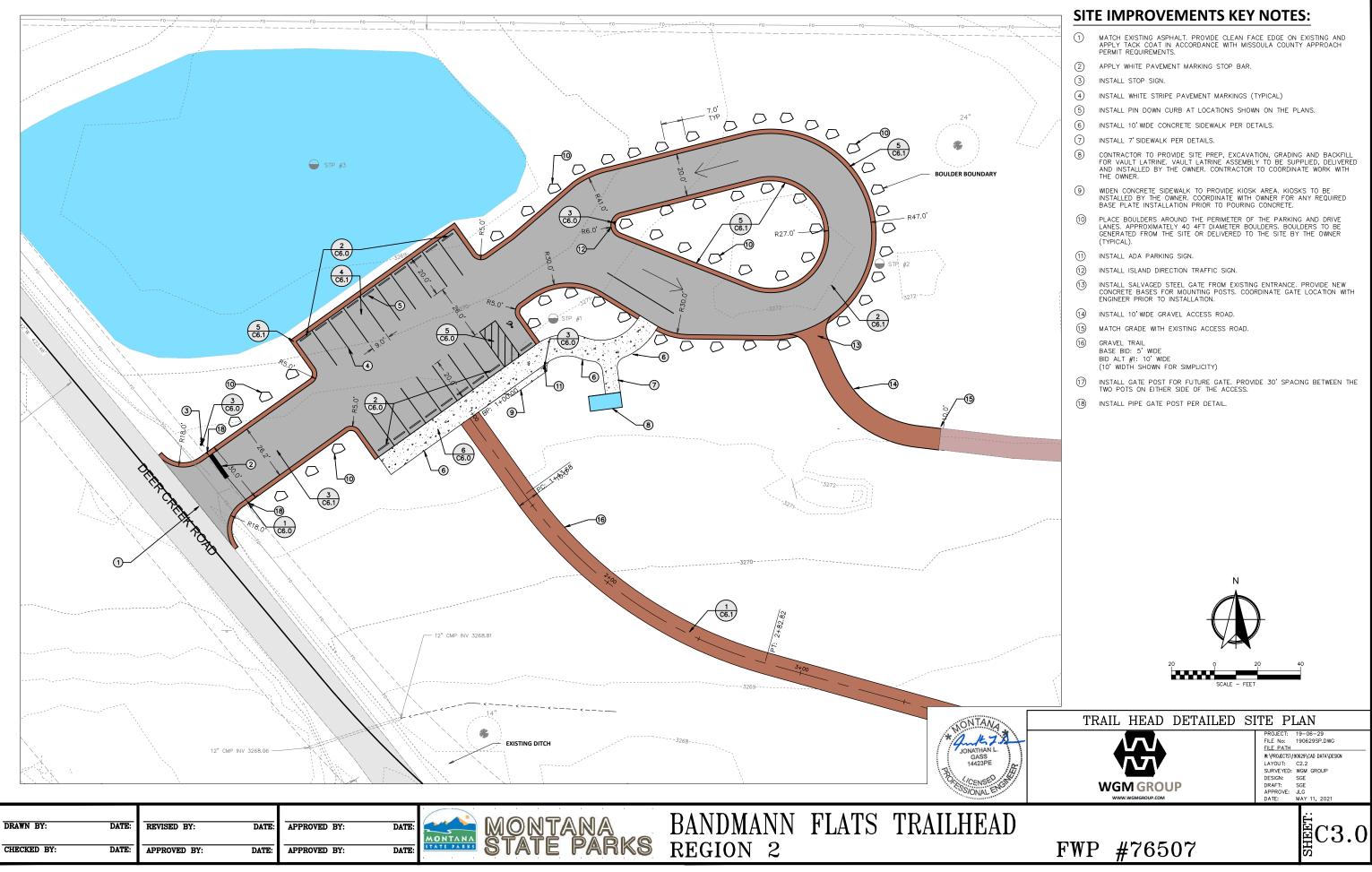
STRIP EXISTING GRASS AND TOPSOIL FROM ALL PROPOSED SURFACE IMPROVEMENT AREAS. STOCKPILE TOPSOIL FOR ON-SITE REUSE. COORDINATE STOCKPILE LOCATION WITH ENGINEER. ANTICIPATED TOPSOIL DEPTH OF EXISTING TOPSOIL IS 18 INCHES.
SAW CUT EXISTING ASPHALT AS NECESSARY TO PROVIDE A SMOOTH EDGE FOR MATCHING NEW ASPHALT PAVEMENT PER MISSOULA COUNTY APPROACH PERMIT REQUIREMENTS.
EXISTING BARB WIRE FENCE AND POST ALONG DEER CREEK ROAD TO REMAIN IN PLACE.
REMOVE EXISTING STEEL GATE AND POST AND SALVAGE FOR RE-USE AND INSTALLATION AS SHOWN ON THE PLANS. REMOVE BARBED WIRE FENCE AS NECESSARY FOR NEW ACCESS ROAD AND INSTALL "H" PANELS ON EACH SIDE OF ACCESS FOR FENCE TERMINATION. COORDINATE FENCE REMOVAL AND "H" PANEL INSTALLATION WITH ENGINEER.
REMOVE EXISTING SIGN AND BASE. SALVAGE ALL SIGNS FOR OWNER REUSE. COORDINATE WITH ENGINEER.
PROTECT EXISTING ROCK PILE IN PLACE AND DO NOT DISTURB.
REMOVE TREE/SHRUB AND ROOTS. REMOVAL SHALL INCLUDE COMPLETE REMOVAL OF STUMP AND ROOTS AND FILLING IN DEPRESSION WITH SUITABLE SOIL FILL.
CLEAR VEGETATION FOR PARKING LOT INTERSECTION SIGHT DISTANCE. CLEAR BRUSH AND PRUNE TREE BRANCHES TO 6 FEET ABOVE GROUND SURFACE. COORDINATE WITH OWNER AND ENGINEER ON VEGETATION TO BE REMOVED.
PROTECT EXISTING TREE. TREE PROTECTION FENCING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT. CONTRACTOR SHALL OBTAIN PERMISSION TO ENTER FROM LANDSCAPE ARCHITECT PRIOR TO CONDUCTING WORK WITHIN PLANT PROTECTION ZONES.
CLEAR BRUSH, GROUND COVER AND TREES IN THE AREA OF THE NEW PATH. COORDINATE WITH ENGINEER ON VEGETATION TO BE REMOVED.
REMOVE APPROXIMATELY 251 C.Y. OF ROCK SLUFF AND FINISH TO THE CONTOURS SHOWN. SEE GRADING PLAN. POORLY GRADED GRAVEL FROM THIS AREA TO BE USED AS FILL MATERIAL FOR PATH, PARKING LOT, AND/OR WALL BACKFILL. OVER SIZED ROCKS TO BE STOCKPILED ON THE SITE IN AN AREA APPROVED BY THE ENTIFER, OR REMOVED FROM THE SITE WHICHEVER THE CONTRACTOR CHOOSES.
REMOVE APPROXIMATELY 34 C.Y. OF ROCK SLUFF AND FINISH TO THE CONTOURS SHOWN. SEE GRADING PLAN. POORLY GRADED GRAVEL FROM THIS AREA TO BE USED AS FILL MATERIAL FOR PATH, PARKING LOT, AND/OR WALL BACKFILL. OVER SIZED ROCKS TO BE STOCKPILED ON THE SITE IN AN AREA APPROVED BY THE ENGINEER, OR REMOVED FROM THE SITE WHICHEVER THE CONTRACTOR CHOOSES.
REMOVE APPROXIMATELY 112 C.Y. OF ROCK SLUFF AND FINISH TO THE CONTOURS SHOWN. SEE GRADING PLAN. POORLY GRADED GRAVEL FROM THIS AREA TO BE USED AS FILL MATERIAL FOR PATH, PARKING LOT, AND/OR WALL BACKFILL. OVER SIZED ROCKS TO BE STOCKPILED ON THE SITE IN AN AREA APPROVED BY THE ENGINEER, OR REMOVED FROM THE SITE WHICHEVER THE CONTRACTOR CHOOSES.
REMOVE WOOD POST.
EXISTING ACCESS ROAD TO REMAIN. PROTECT IN PLACE.
STRIP EXISTING GRASS AND TOPSOIL FROM ALL TRAIL IMPROVEMENT AREAS, TOPSOIL MAY BE PLACED ADJACENT TO THE NEW TRAIL, SPREAD OUT AND GRADED TO FACILITATE SURFACE DRAINAGE AND NOT CREATE A LOW AREA ON EITHER SIDE OF TRAIL.
PROTECT EXISTING UTILITIES.
DEMOLITION PLAN – PLAN VIEW A
PROJECT: 19-06-29 FILE No: 190629DM.DWG
FILE PATH W:\PROJECTS\190629\CAD DATA\DESIGN
LAYOUT: C1.3 SURVEYED: WGM GROUP
DESIGN: SGE
WGMGROUP www.wgmgroup.com DRAFT: SGE APPROVE: J.G DATE: MAY 11, 2021
FWP #76507

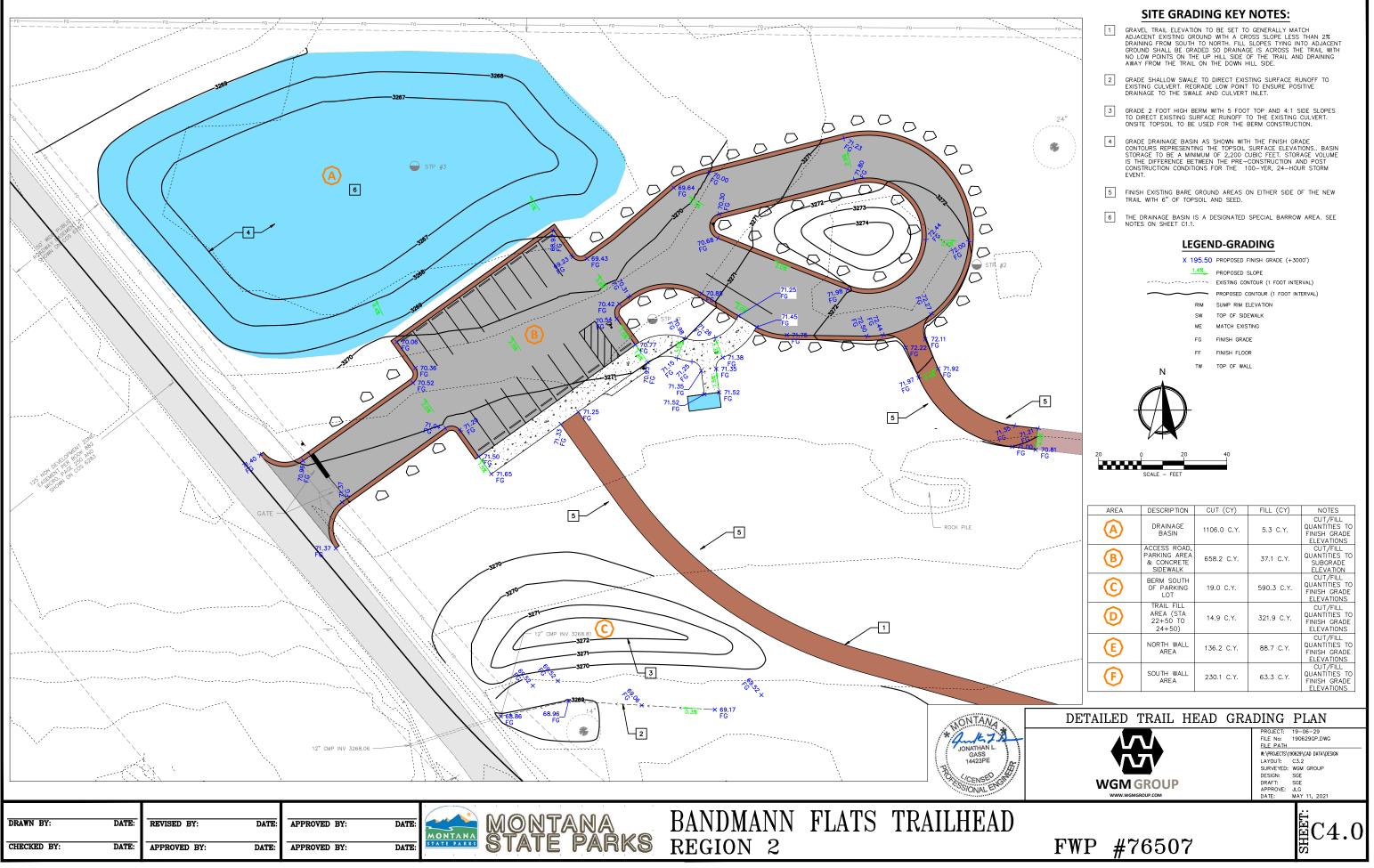


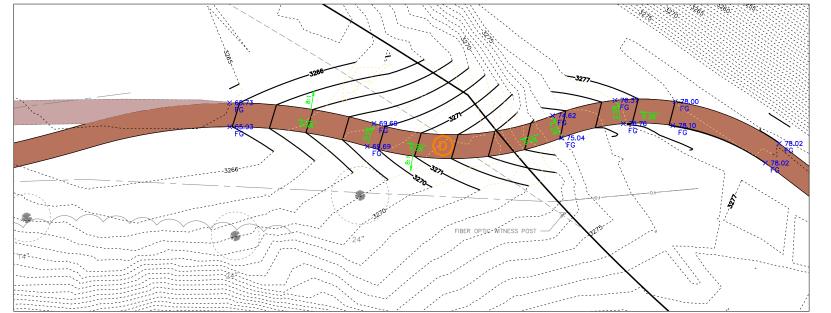


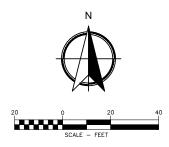


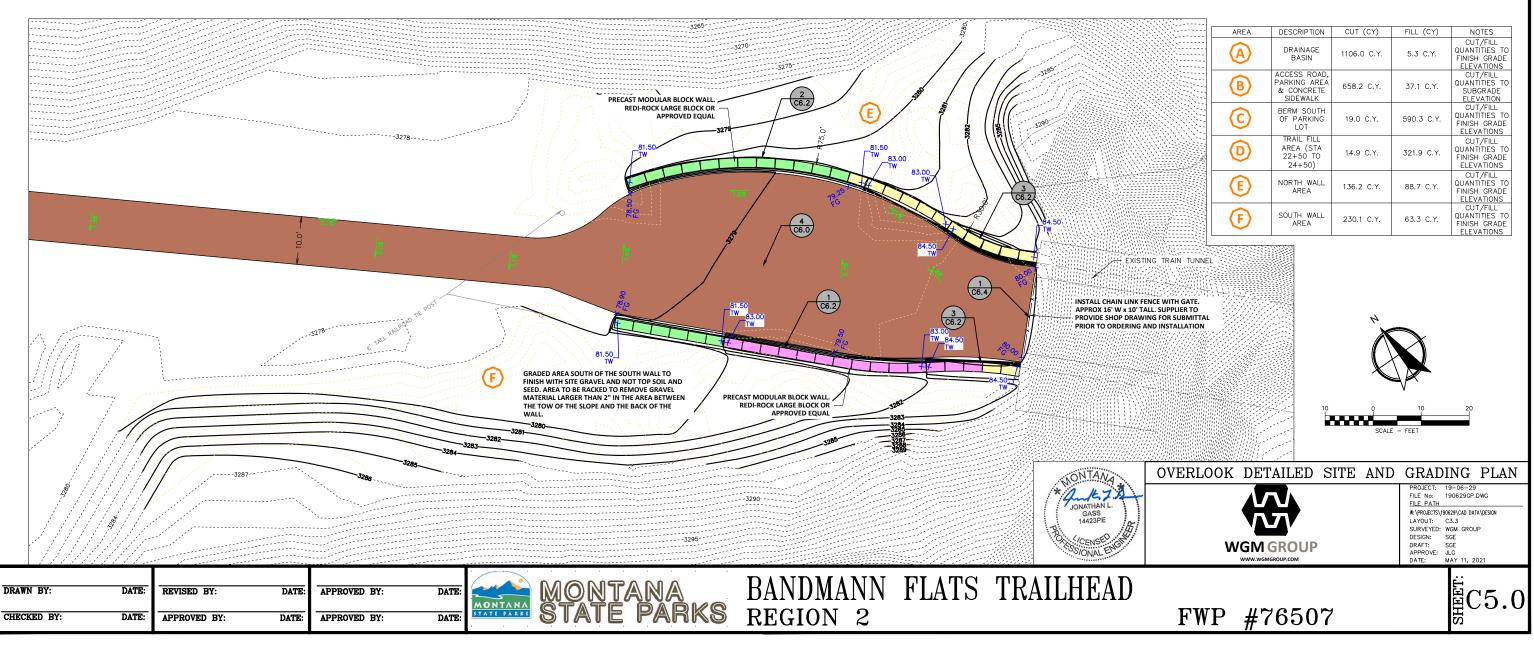
SITE IMPROVEMENTS KEY NOTES:









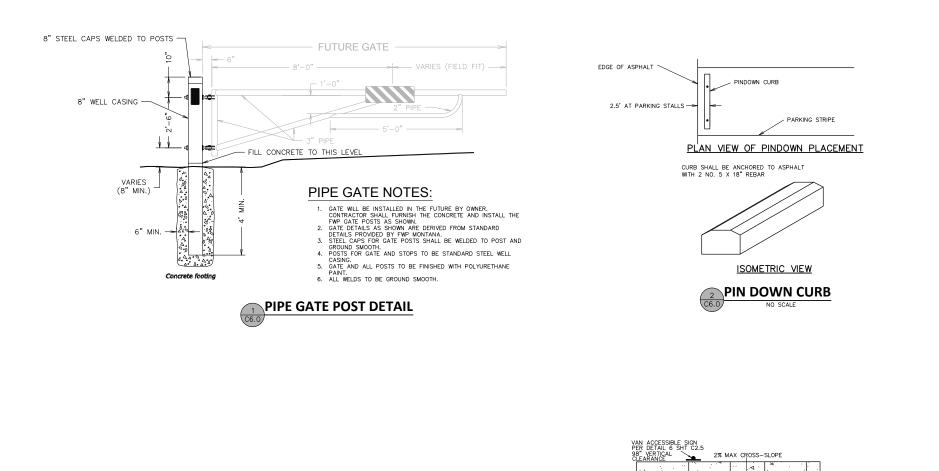


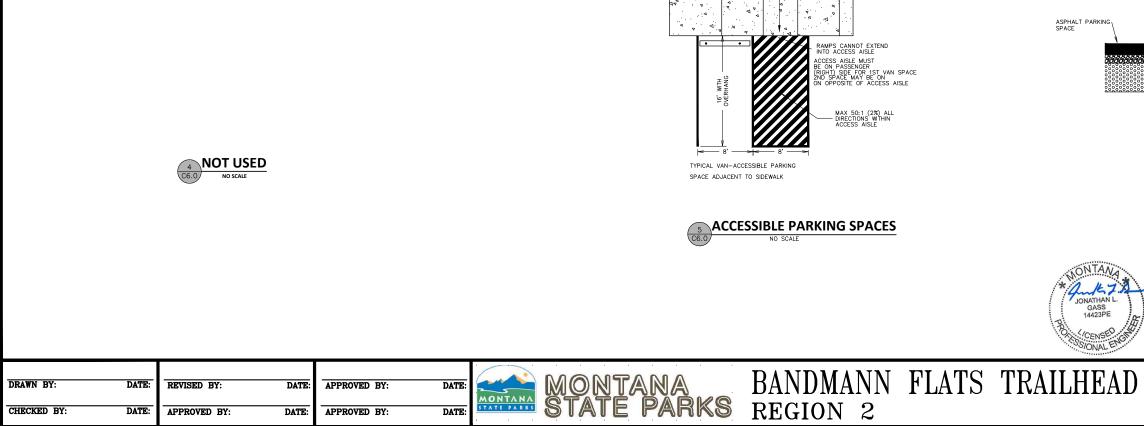
LEGEND-GRADING

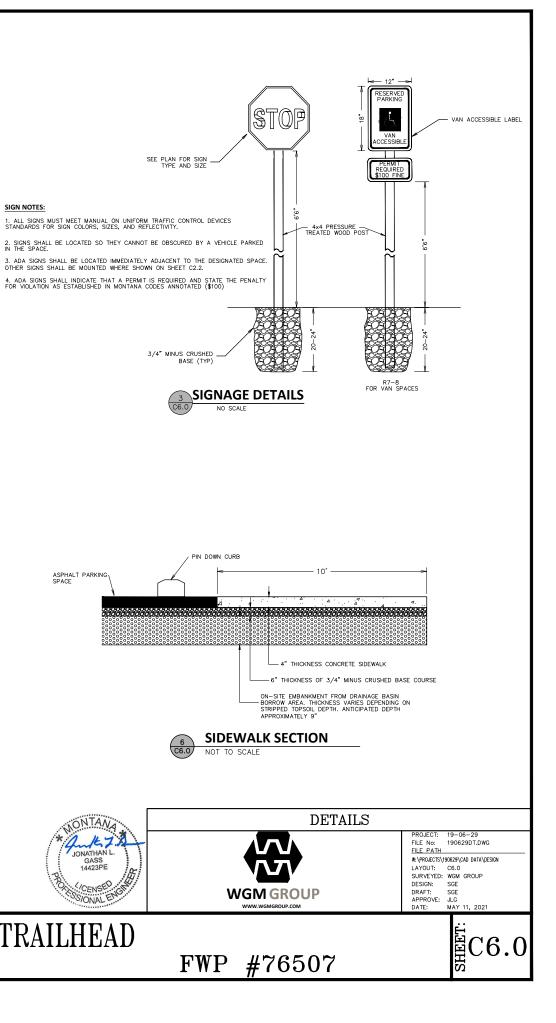
X 195.50	PROPOSED FINISH GRADE (+3000')
<u>1.4%</u>	PROPOSED SLOPE EXISTING CONTOUR (1 FOOT INTERVAL)
\sim	PROPOSED CONTOUR (1 FOOT INTERVAL)
RIM	SUMP RIM ELEVATION
SW	TOP OF SIDEWALK
ME	MATCH EXISTING
FG	FINISH GRADE
FF	FINISH FLOOR
TW	TOP OF WALL

PRECAST MODULAR BLOCK WALL LEGEND

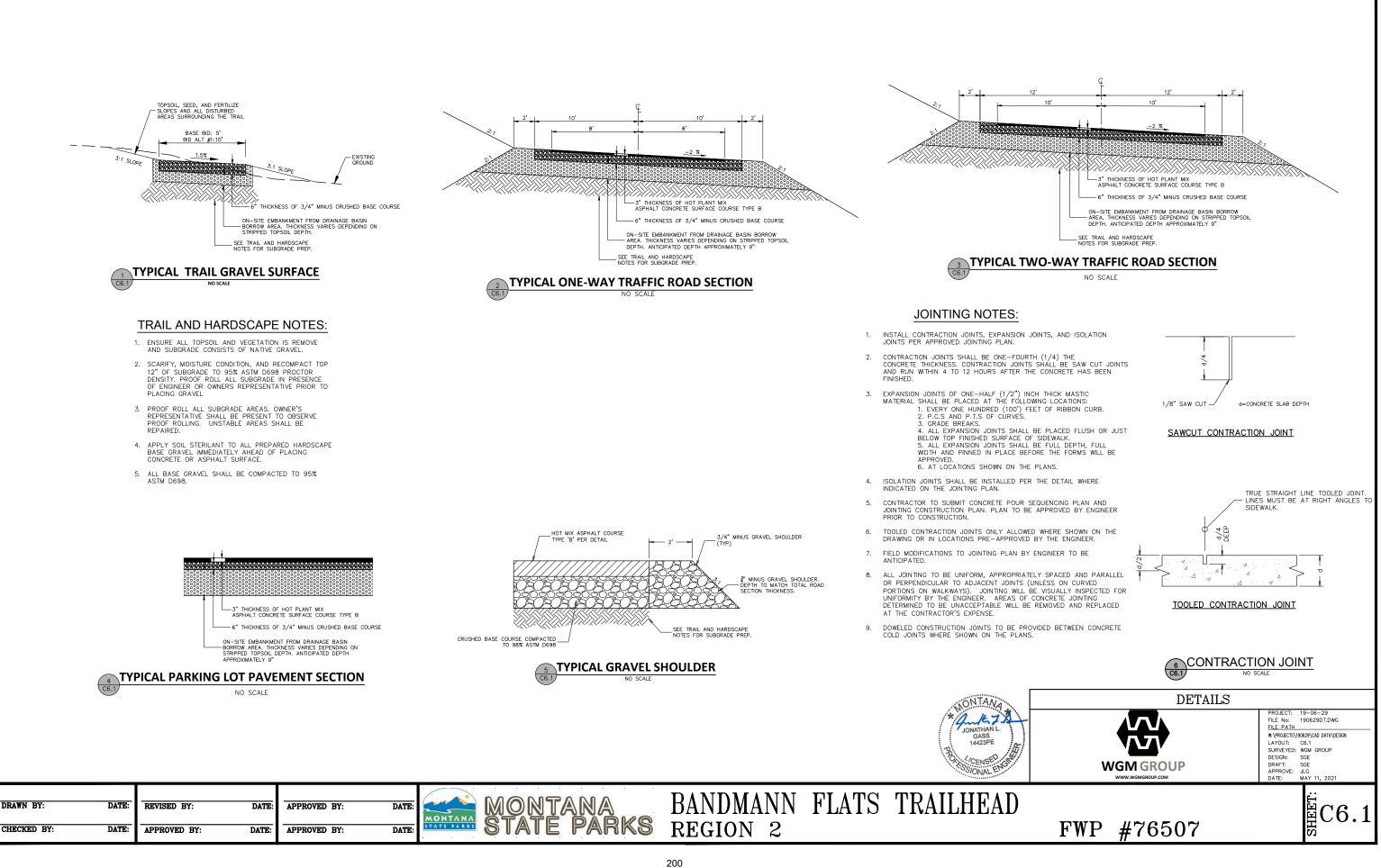
PRECAST MODULAR FREE STANDING WALL PRECAST MODULAR BLOCK WALL 'A' PRECAST MODULAR BLOCK WALL 'B'

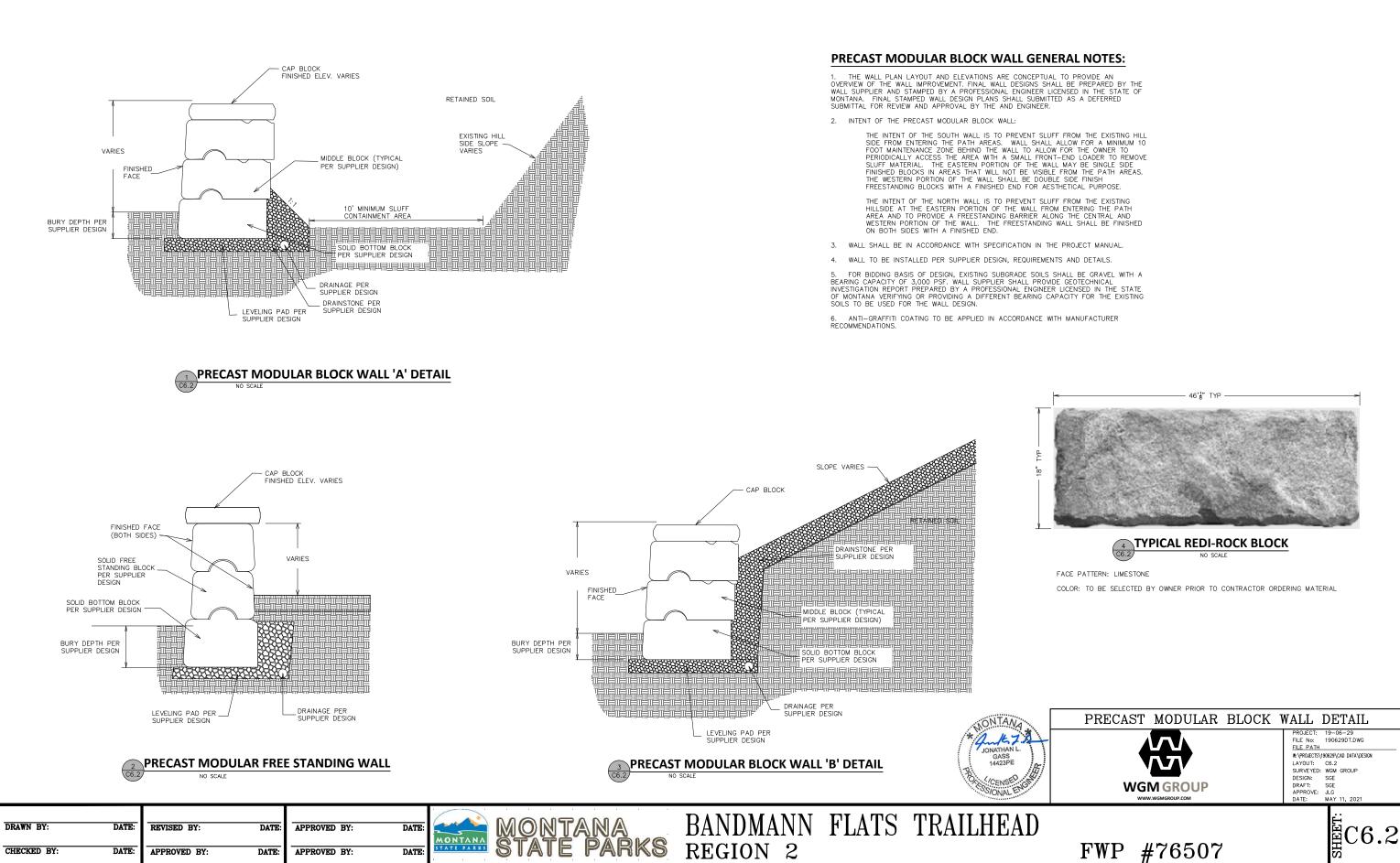


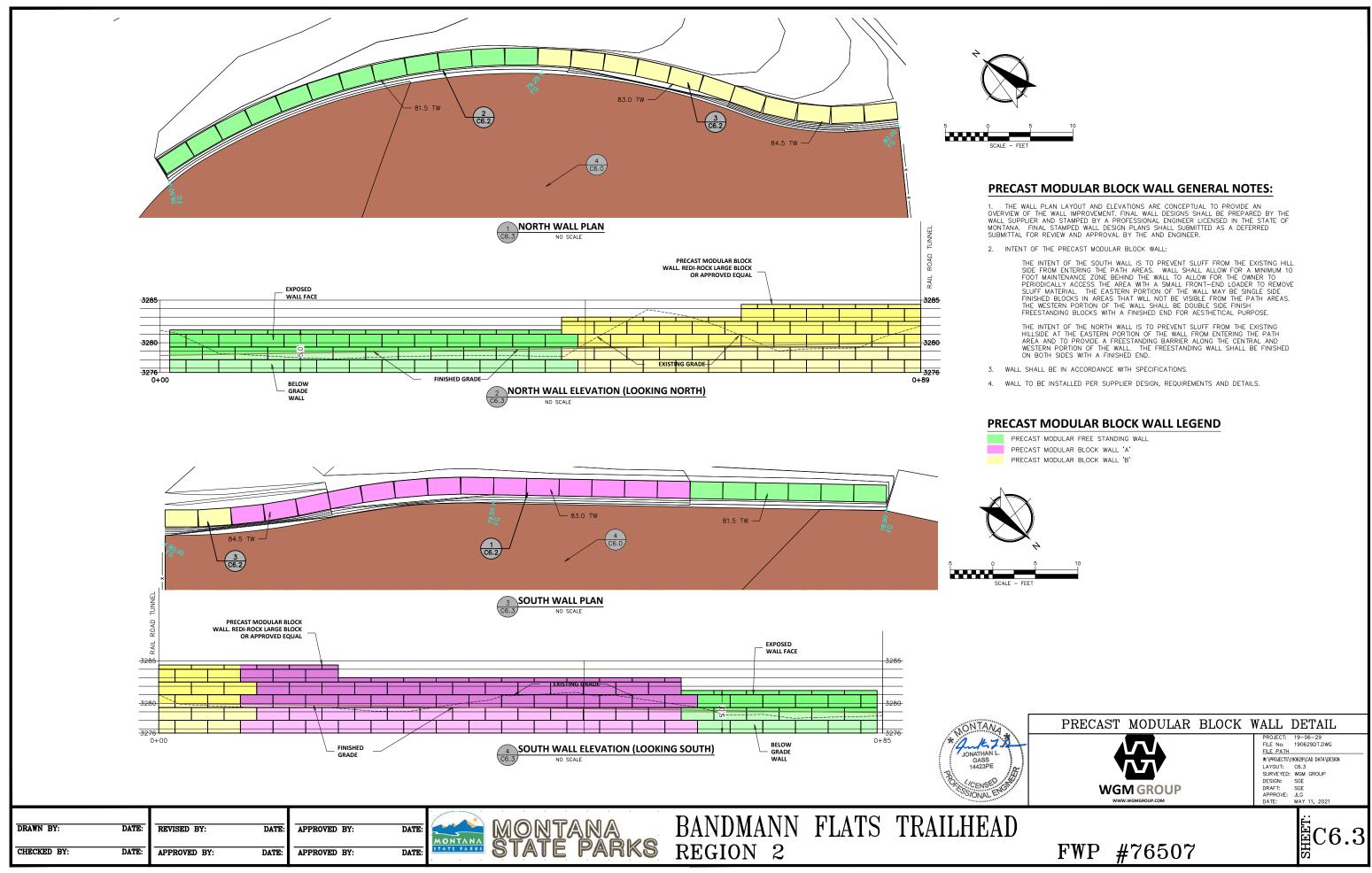


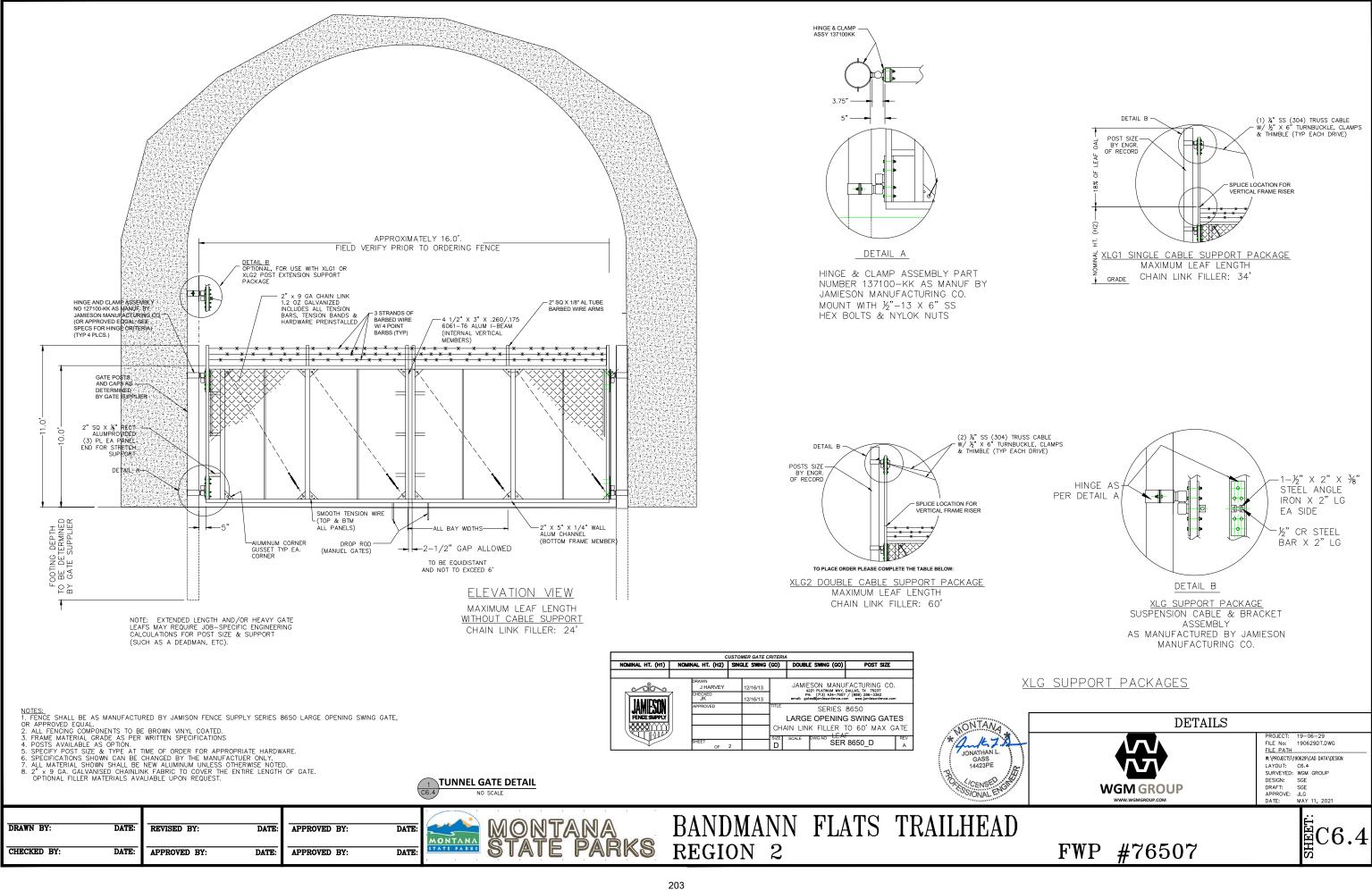


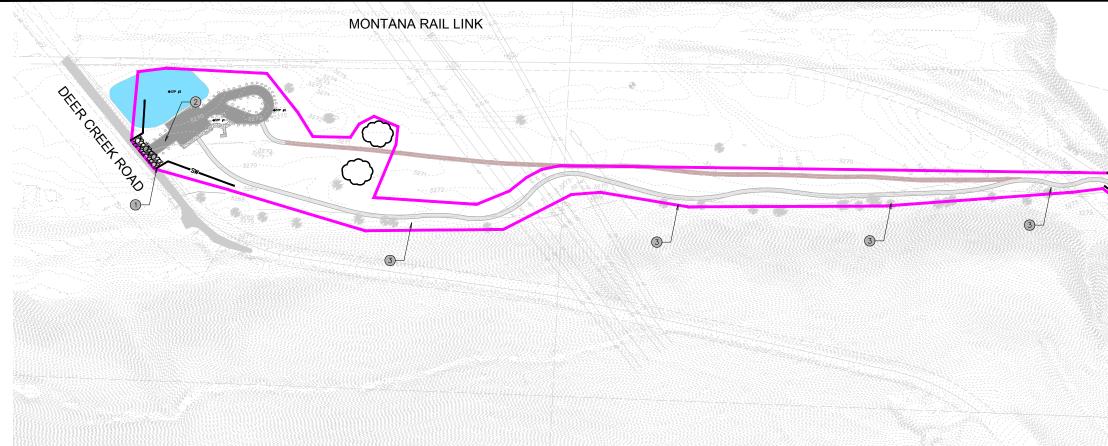
SIGN NOTES:









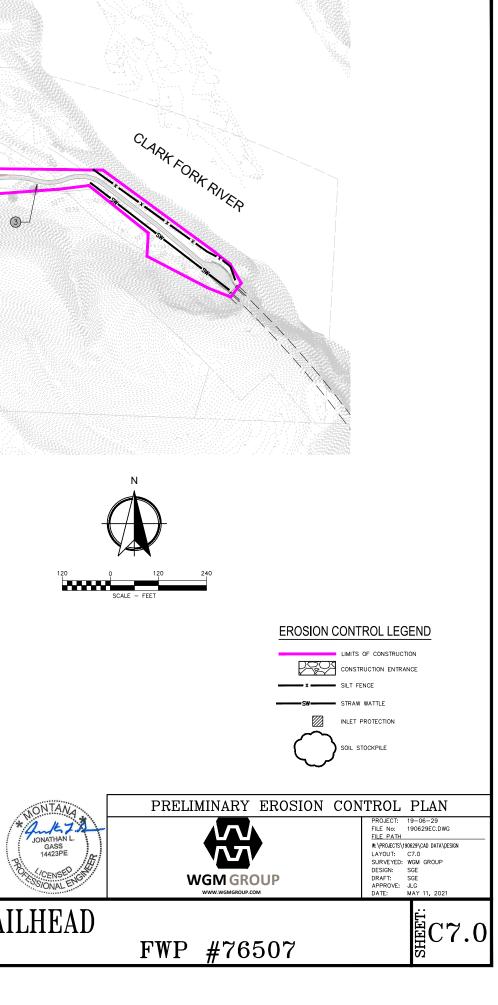


GENERAL NOTES:

- 1. THE ANTICIPATED DISTURBED AREA FOR THIS PROJECT IS GREATER THAN 1 ACRE. THEREFORE THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH ALL REQUIREMENTS OF THE 2018 "CENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY" (GENERAL PERMIT) AUTHORIZED UNDER MONTANA POLLUTANT DISCHARGE ELIMINATION SYSTEM.
- 2. THE CONTRACTOR SHALL BE THE SWPPP PERMITTEE AND PAY FEES FOR THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) TO BE IN COMPLIANCE WITH MDEQ. THE CONTRACTOR SHALL REVIEW AND HAVE AN UNDERSTANDING OF THE PLAN'S INTENT FOR PROVIDING EROSION AND SEDIMENT CONTROL.
- 3. LAND DISTURBING ACTIVITY SHALL NOT COMMENCE UNTIL MDEQ ISSUES THE SWPPP ACKNOWLEDGEMENT.
- 4. THIS EROSION CONTROL PLAN IS TO BE USED AS A GUIDE. IT IS THE SWPPP ADMINISTRATOR'S DUTY TO MODIFY OR UPDATE THE EROSION CONTROL PLAN TO MATCH THE SWPPP NARRATIVE AND THE ACTUAL BMPS INSTALLED ON-SITE AT ALL TIMES UNTIL THE NOTICE OF TERMINATION (NOT) FORM IS SUBMITTED TO MDEQ.
- 5. EVALUATE SUITABILITY OF GRAVEL CONSTRUCTION ENTRANCE PROTECTION. IF ARRANGEMENT SHOWN ON THIS SHEET IS NOT SUITABLE, AN ALTERNATE METHOD SHALL BE APPROVED BY ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 6. CONTRACTOR TO PREVENT UNTREATED RUNOFF FROM LEAVING THE SITE. ADDITIONAL BMPS MAY BE NECESSARY.
- 7. CONTRACTOR TO PREVENT POLLUTING THE AIR WITH DUST AND PARTICULATE MATTER. PROVIDE WATER FOR DUST CONTROL AS NECESSARY.
- 8. THE CONTRACTOR IS TO BE RESPONSIBLE FOR INSTALLING, INSPECTING, MAINTAINING, PRESERVING AND EVALUATING THE PERFORMANCE OF ALL EROSION CONTROL MEASURES.
- 9. THE CONTRACTOR IS TO BE RESPONSIBLE FOR PERFORMING ALL MONITORING, REPORTING, AND RECORDS RETENTION REQUIREMENTS PER PART 2.3 OF THE GENERAL PERMIT. THIS INCLUDES, BUT MAY NOT BE LIMITED TO ATTACHMENT B- SELF INSPECTION FORM.
- 10. THE CONTRACTOR MUST HAVE ON-SITE AT ALL TIMES AND IMMEDIATELY AVAILABLE DURING CONSTRUCTION THE FOLLOWING: 1) COPY OF THE 2018 GENERAL PERMIT, 2) A COPY OF THE COMPLETED NOTICE OF INTENT (NOI) FORM, 3) A COPY OF THE NOI RECEIPT CONFIRMATION LETTER FROM THE DEPARTMENT OF ENVIRONMENTAL QUALITY, 4) A LIST OF POTENTIAL POLLUTANT SOURCES AND BMP SELECTION FOR EACH, 5) AN UP TO DATE COPY OF THE SWPPP INCLUDING MAP DOCUMENTING ANY FIELD CHANGES, 6) BMP INSTALLATION AND DESIGN STANDARDS FOR ALL BMPS INSTALLED AND DETAILED IN THE SWPPP, 7) SELF INSPECTION RECORDS, 8) ALL REPORTS OF NON-COMPLIANCE.
- 11. CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES AND/OR FINES THAT MAY RESULT FROM RUNOFF FROM THIS SITE PRIOR TO FINAL STABILIZATION.
- 12. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL EROSION CONTROL MEASURES THROUGHOUT THE WARRANTY PERIOD, AND UNTIL FINAL STABILIZATION OF THE SITE IS REACHED AS DEFINED IN THE CONSTRUCTION GENERAL PERMIT PART 3.8. THE CONTRACTOR IS THEN RESPONSIBLE FOR REMOVING EROSION CONTROL MEASURES AND SUBMITTING THE NOT TO MDEQ AND PROVIDING A COPY, ALONG WITH THE NOT RECEIPT LETTER FROM MDEQ, TO THE PROJECT ENGINEER AND CITY OF MISSOULA.
- 13. ALL DISTURBED AREAS SHALL BE SEEDED OR PAVED WITHIN 14 DAYS OF FINAL GRADING. SHOULD CONSTRUCTION OF AN AREA STOP FOR LONGER THAN 14 DAYS, THE AREA SHOULD BE TEMPORARILY SEEDED OR STABILIZED IN ANOTHER ACCEPTABLE MANNER.
- 14. CONTRACTOR SHALL DESIGNATE THE LOCATION OF ALL DUMPSTERS, FUELING/MAINTENANCE AREAS, AND PORTABLE TOILETS. PORTABLE TOILETS TO BE SECURED TO GROUND TO PREVENT TIPPING/SPILLING.
- 15. CONSTRUCTION TRASH/LITTER MUST BE THOROUGHLY CLEANED-UP AND PROPERLY DISPOSED OF ON A DAILY BASIS.
- 16. CONTRACTOR TO PROVIDE PROPER MATERIAL AND EQUIPMENT MANAGEMENT AND STORAGE, AND WASTE LOCATION ONSITE OR PROVIDE OFFSITE DISPOSAL.

STORMWATER PLAN GUIDANCE KEY NOTES:

- O CONTRACTOR MUST LIMIT SEDIMENT TRACKING ONTO PUBLIC AND PRIVATE STREETS. CONTRACTOR RESPONSIBLE FOR REMOVING ANY SEDIMENT TRACKED ONTO HARD SURFACES DURING CONSTRUCTION. CONTRACTOR TO STREET SWEEP AS NECESSARY.
- (2) INSTALL TRACK PADS TO PREVENT SEDIMENT TRACK-OUT PRIOR TO STARTING MAJOR EXCAVATION WORK. IF SHOWN LOCATIONS ARE NOT SUITABLE THIS PLAN MUST BE UPDATED WITH THE NEW LOCATION(S). SEE DETAIL SHEET.
- (3) LIMIT EARTH DISTURBING ACTIVITIES NEAR THE BOUNDARY OF THE SITE TO PRESERVE EXISTING VEGETATION AND PROVIDE VEGETATIVE BUFFER. IF SLOPES STEEPER THAN 3:1 ARE DISTURBED, SURFACE ROUGHEN AND TEMPORARILY SEED.



DRAWN BY: DATE:	REVISED BY: DATE:	APPROVED BY: DATE:	MONTANA MONTANA	BANDMANN	FLATS	TRAILHEAD
CHECKED BY: DATE:	APPROVED BY: DATE:	APPROVED BY: DATE:	STATE PARKS	REGION 2		

