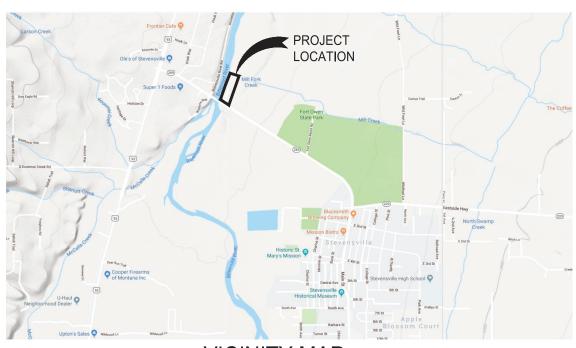
**CONSTRUCTION PLANS FOR:** 

## JOHN OWEN FAS

FWP #7173727





**VICINITY MAP** 

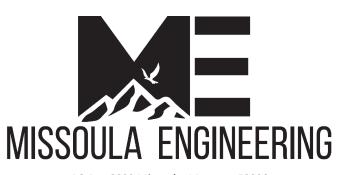
### PREPARED BY:



CALL UTILITY NOTIFICATION CENTER OF MONTANA 1-800-424-5555

CALL FOR THE MARKING OF UNDERGROUND UTILITIES

2 BUSINESS DAYS BEFORE



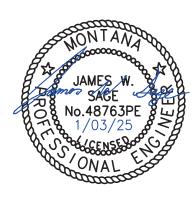
PO Box 2833 Missoula, Montana 59806 Phone # (406) 215-1555

#### PREPARED FOR:



PO Box 200701 Helena, Montana 59620 Phone # (406) 841-4000

S	SHEET INDEX
SHEET NO.	DRAWING DESCRIPTION
1	Cover Sheet
3	General Notes and Legend
	Quantities and Abbreviations
4	Existing Conditions
5	Overall Site Plan
6	Tree Removal Plan
7	Demolition Plan
8	Site Plan (1 of 2)
9	Site Plan (2 of 2)
10	Grading Plan (1 of 2)
11	Grading Plan (2 of 2)
12	Plan and Profile
13	Typical Sections Details
14	Sign and Parking Details
15	Latrine Details
16	Fencing Details
17	Gate Details
18	Right of Way Details
19	Erosion Control Plan
20	Erosion Control Details



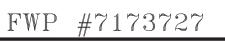
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JWS	01/03/25
CHECKED BY:	DATE:

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REVISED BY: JWS	DATE: 01/03/25
APPROVED BY:	DATE:

APPROVED BY:	DATE:
APPROVED BY:	DATE:



COV	ER SE	IEET
JOHN	OWEN	FAS





#### **CONSTRUCTION NOTES:**

- 1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SHOULD ANY CONFLICTS EXIST BETWEEN THE PLANS AND WHAT IS FOUND IN THE FIELD.
- 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND PROTECT ALL UTILITY LINES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ONE CALL UTILITY LOCATION CENTER AT 1-800-424-5555 AT LEAST 2 BUSINESS DAYS PRIOR TO PERFORMING ANY EXCAVATION.
- 3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS, (AT THEIR EXPENSE) REQUIRED TO PERFORM THE WORK. THESE PERMITS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: RAVALLI COUNTY AND STATE OF MONTANA PERMITS.
- 4. ALL WORK SHALL BE COMPLETED IN A SAFE MANNER AND CONSISTENT WITH O.S.H.A GUIDELINES.
- 5. CONTRACTOR SHALL PROTECT ALL ADJACENT IMPROVEMENTS FROM DAMAGE AND EROSION. DISTURBED AREAS SHALL BE RESTORED TO THE ORIGINAL CONDITION OR TO THE PROPOSED DESIGN GRADE AS INDICATED ON THE PLANS.
- 6. ALL CIVIL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES AS APPLICABLE:
  MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS 7TH EDITION AND INTERNATIONAL BUILDING CODE. IN
  INSTANCES WHERE A CONFLICT EXISTS BETWEEN THE REFERENCED CODES CONTACT THE ENGINEER. THE
  MOST STRINGENT CODE SHALL RULE.
- 7. ALL REQUIRED COMPACTION TESTING SHALL BE PROVIDED BY AN INDEPENDENT TESTING FIRM AT THE EXPENSE OF THE CONTRACTOR.
- 8. IMPORT MATERIAL REQUIRED TO COMPLETE EARTHWORK SHALL BE IMPORTED FROM OFF-SITE OR DETERMINED TO BE SUITABLE BY SUPPLYING INDEPENDENT TESTING OF MATERIAL AND AFTER INSPECTION BY ENGINEER AND WRITTEN APPROVAL BY THE OWNER. CONTRACTOR IS RESPONSIBLE FOR SOURCING AND DELIVERY OF ALL IMPORTED FILL MATERIAL AND SHALL BE CONSIDERED INCIDENTAL TO THE WORK. ALL IMPORT MATERIAL SHALL BE CLEAN MATERIAL FREE OF DEBRIS AND SUITABLE FOR USE AS STRUCTURAL FILL
- 9. ALL WORK WITHIN THE MDT ROW SHALL BE IN CONFORMANCE WITH MDT STANDARDS AND REGULATIONS INCLUDING BUT NOT LIMITED TO RE-VEGETATION.
- 10. WATER NECESSARY FOR CONSTRUCTION ACTIVITIES SHALL BE PROVIDED BY THE CONTRACTOR AND CONSIDERED INCIDENTAL TO THE WORK. ALL PERMITTING FOR USE OF ANY ON-SITE WATER SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

#### SURVEY NOTES:

1. SURVEY DATUM:

HORIZONTAL - STATE PLANE, NAD 83

VERTICAL - NAVD 88

- 2. SURVEY INFORMATION SHOWN ON DRAWINGS ARE BASED UPON LIMITED SURVEY DATA. EXISTING CONDITIONS MAY VARY FROM THOSE SHOWN. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
- 3. CONTRACTOR SHALL MAINTAIN OR REPLACE ANY EXISTING SURVEY MONUMENTS, CONTROL POINTS, AND STAKING. REPLACEMENT COSTS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COMPLETED BY A LICENSED SURVEYOR IN THE STATE OF MONTANA.

#### **CONSTRUCTION STAKING NOTES:**

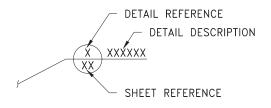
1. STAKING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR SCHEDULING AND PAYMENT

#### **LEGEND**

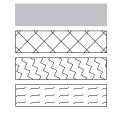
EXISTING	PROPOSED		EXISTING	PROPOSED	
		PROPERTY LINE	$\otimes$	$\otimes$	BOLLARD
		EASEMENT			SIGN
		CENTERLINE	МВ	MB	MAILBOX
		EDGE OF ROAD	wv 		WATER VALVE
	3100	MAJOR CONTOUR	⟨ww⟩	W	WATER METER
	3102	MINOR CONTOUR	杂	~	FIRE HYDRANT
w	W	WATER MAIN	MW	MW	MONITORING WELL
WS	WS	WATER SERVICE	<b>W</b>	W	POTABLE WATER WELL
s	s	SEWER MAIN	$\otimes \circ$		BLOW-OFF ASSEMBLY
SS	SS	SEWER SERVICE	<b>S</b>	S	SEWER MANHOLE
——— — FM —— ———	$-\!\!\!\!-\!\!\!\!-\!$	SEWER FORCE MAIN	©	©	SEWER CLEAN-OUT
== =		CURB	ST	ST	SEPTIC TANK
x x x	x x x	FENCE	<b>(</b>	<b>(a)</b>	STORMWATER SUMP
——— OHP ———		OVERHEAD POWER LINE	<b>⊕</b>		TEST PIT
UGP		UNDERGROUND POWER LINE	$\langle E \rangle$		ELECTRIC METER
G		UNDERGROUND GAS LINE	<u></u> ✓T		TELEPHONE RISER
TV		UNDERGROUND TELEVISION LINE	T		TELEPHONE MANHOLE
T		UNDERGROUND TELEPHONE LINE	·		LIGHT POLE
———— FO ———		UNDERGROUND FIBER OPTIC LINE	$\bigwedge$		CATV RISER
IRR		UNDERGROUND IRRIGATION LINE	G		GAS METER
		STORMWATER SWALE	Sv		GAS VALVE

\* THIS IS A STANDARD LEGEND, NOT ALL SYMBOLS MAY BE USED OR SHOWN ON THIS PROJECT \*

#### **DETAIL CALLOUT**



#### HATCH LEGEND



TYPICAL GRAVEL SECTION

ROAD RECONDITIONING

BANK RESTORATION

RIVER ACCESS

JLS	01/03/25
DRAWN BY:	DATE:
JWS	01/03/25
CHECKED BY:	DATE:

JLS REVISED BY:	01/03/25 DATE:	APPROVED BY:	DA
JWS APPROVED BY:	01/03/25 DATE:	APPROVED BY:	DA



GEN.	ERAL	NOI	TES A	ND LEGEND	)
JOHN	OWEN	FAS	FWP	#7173727	



			ABBREVIATIONS		
A.C.I.	AMERICAN CONCRETE INSTITUTE	GA	GAUGE	R/W	RIGHT OF WAY
AC	ASBESTOS CONCRETE	GAL	GALLON	RÁD	RADIUS
AFF	ABOVE FINISHED FLOOR	GALV	GALVANIZED	RCP	REINFORCED CONCRETE PIPE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	GND	GROUND	RD	ROOF DRAIN
ARCH	ARCHITECTURAL	GVL	GRAVEL	REQD	REQUIRED
ASPH	ASPHALT	GW	GROUNDWATER	RM	REFERENCE MARK
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS			RR	RAILROAD
AVE	AVENUE	HDPE	HIGH DENSITY POLYETHYLENE	RT	RIGHT
		HORIZ	HORIZONTAL		NOTT:
BFV	BUTTERFLY VALVE	HWY	HIGHWAY	S	SOUTH
BLDG	BUILDING	HYD	HYDRANT	SCH	SCHEDULE
BLK	BLOCK	1110	111310.111	SD	STORM DRAIN
BLVD	BOULEVARD	IBC	INTERNATIONAL BUILDING CODE	SDI	STORM DRAIN INLET
BM	BENCHMARK	ID	INSIDE DIAMETER	SDWK	
BSMT	BASEMENT	IE	INVERT ELEVATION		SIDEWALK
BVCE	BEGIN VERTICAL CURVE ELEVATION	INV	INVERT	SE	SOUTHEAST
BVCS	BEGIN VERTICAL CURVE STATION	IIN V	INVERI	SF	SQUARE FEET
		K	DATE OF VERTICAL CURVE	SHT	SHEET
BW	BOTTOM OF WALL	ĸ	RATE OF VERTICAL CURVE	SS	SANITARY SEWER
0.0	OATON DACIN	1.00	DOTINEC	SSTL	STAINLESS STEEL
CB	CATCH BASIN	LBS	POUNDS	ST	STREET
CCJ	CONCRETE CONTROL JOINT	LF	LINEAR FOOT	STA	STATION
CEJ	CONCRETE EXPANSION JOINT	LPG	LIQUID PROPANE GAS	SW	SOUTHWEST
CF	CUBIC FEET	LT	LEFT	SY	SQUARE YARD
CIP	CAST IRON PIPE	LVC	LENGTH OF VERTICAL CURVE		
CL, &	CENTERLINE			TA	TOP OF ASPHALT
CLR	CLEAR	MAX	MAXIMUM	TBC	TOP BACK OF CURB
СМР	CORRUGATED METAL PIPE	MDT	MONTANA DEPARTMENT OF TRANSPORTATION	TC	TOP OF CONCRETE
CMU	CONCRETE MASONRY UNIT	MECH	MECHANICAL	TEL	TELEPHONE
CO	CLEAN OUT	MFD	MANUFACTURED	TMB	TEMPORARY BENCH MARK
CONC	CONCRETE	MFR	MANUFACTURER	TS	TOP OF SLAB
CP	CONTROL PANEL, CONTROL POINT	МН	MANHOLE	TW	TOP OF WALL
CULV	CULVERT	MIN	MINIMUM	TYP	TYPICAL
CY	CUBIC YARD	MISC	MISCELLANEOUS		
		MJ	MECHANICAL JOINT	UG	UNDERGROUND
DET	DETAIL	MJ	MECHANICAL JOINT	UTIL	UTILITY
DIA, Ø	DIAMETER	MPWSS	MONTANA PUBLIC WORKS STANDARD	0112	3112111
DIM	DIMENSION		SPECIFICATIONS	V	VALVE, VOLTAGE
DIP	DUCTILE IRON PIPE			VB	VALVE BOX
DRWY	DRIVEWAY	N	NORTH	VERT	VERTICAL
DWG	DRAWING	N:	NORTHING	VOL	VOLUME
		NG	NATURAL GAS	VOL	VOLOME
(E)	EXISTING	NIC	NOT IN CONTRACT	W	WEST
E	EAST	NO	NUMBER		
E:	EASTING	NOM	NOMINAL	W/	WITH
EA		NTS	NOT TO SCALE	W/0	WITHOUT
	EACH	NW	NORTHWEST	WD	WOOD
EG	EXISTING GRADE/ELEVATION	INW	NONTIWEST	WM	WATER METER
EL	ELEVATION	ОС	ON CENTER	WTR	WATER
ELEC	ELECTRIC, ELECTRICAL	OD	OUTSIDE DIAMETER	WWF	WELDED WIRE FABRIC
EOP	EDGE OF PAVEMENT	OHP		WWM	WELDED WIRE MESH
EVCE	END VERTICAL CURVE ELEVATION	OHP	OVER HEAD POWER		
EVCS	END VERTICAL CURVE STATION	(-)		XS	CROSS SECTION
EX	EXISTING	(P)	PROPOSED		
EXC	EXCAVATE	P.U.E.	PUPLIC/PRIVATE UTILITY EASEMENT	YD	YARD
		PC	POINT OF CURVATURE		
(F)	FUTURE	PE	POLYETHYLENE		
ÈĆ	FACE OF CURB	PERP	PERPENDICULAR	SYMBOLS	
FCV	FLOW CONTROL VALVE	ΡI	POINT OF INTERSECTION		
FD	FOUNDATION DRAIN	PL, Ł	PROPERTY LINE	0	AT
FDN	FOUNDATION	PRÉLIM	PRELIMINARY	Δ	ANGLE OF DEFLECTION
FF	FINISHED FLOOR	PRV	PRESSURE REDUCING VALVE	_	

JLS	01/03/25	JLS	01/03/2
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CHECKED BY:	DATE:		DATE:

APPROVED BY: DATE: APPROVED BY:



FG

FLG

FΟ

FTG

FINISHED FLOOR

FLANGE

FOOTING

FIBER OPTIC

FINISHED GRADE/ELEVATION FLOWLINE

# MONTANA FISH, QUANTITIES AND ABBREVIATIONS JOHN OWEN FAS FWP #7173727

\* THIS IS A STANDARD ABBREVIATION LIST, NOT ALL ABBREVIATIONS MAY BE USED OR SHOWN ON THIS PROJECT \*

PRESSURE REDUCING VALVE

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH POINT OF TANGENT

POINT OF VERTICAL INTERSECTION

POLYVINYL CHLORIDE

PRV

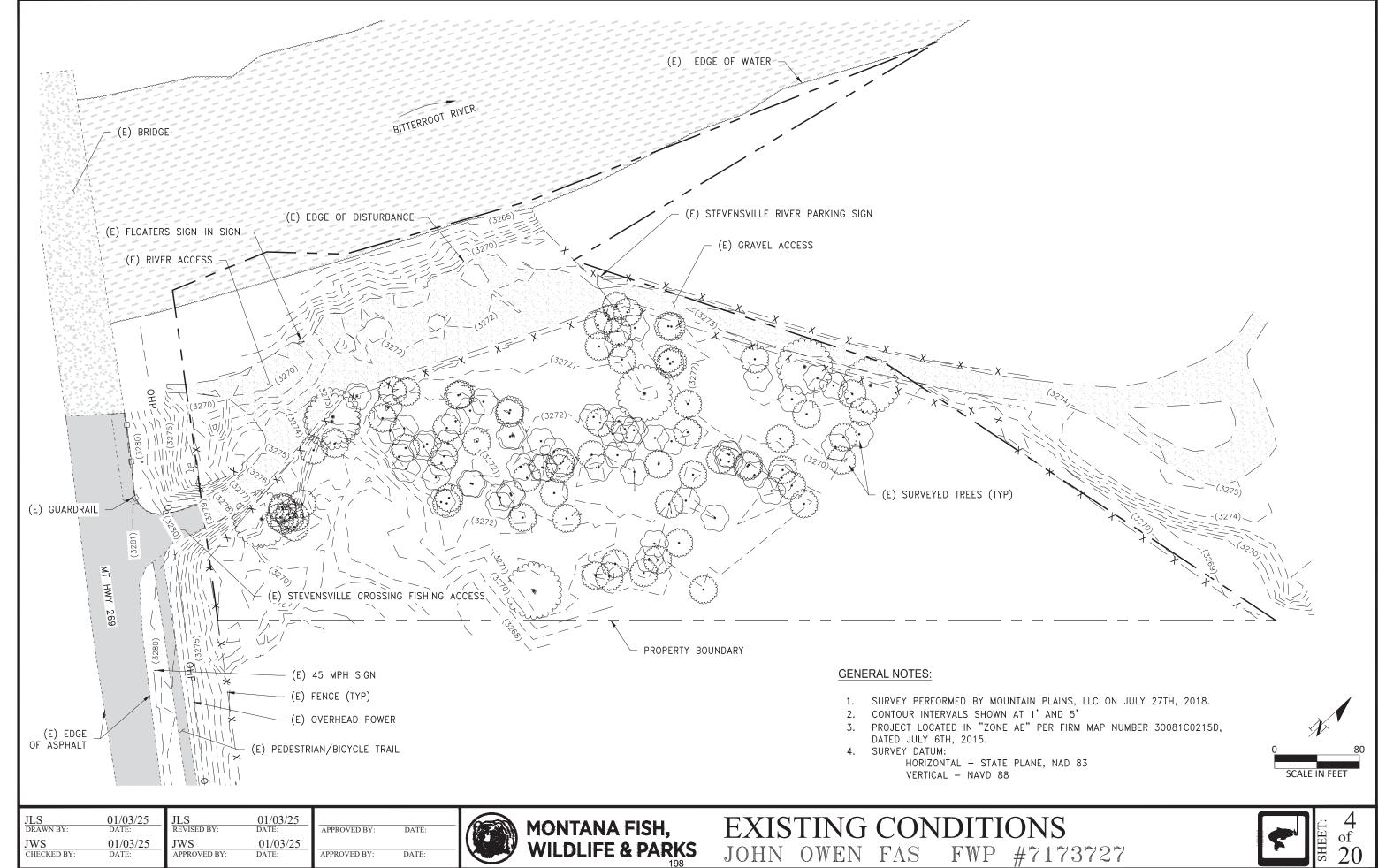
PSF

PSI

PVI

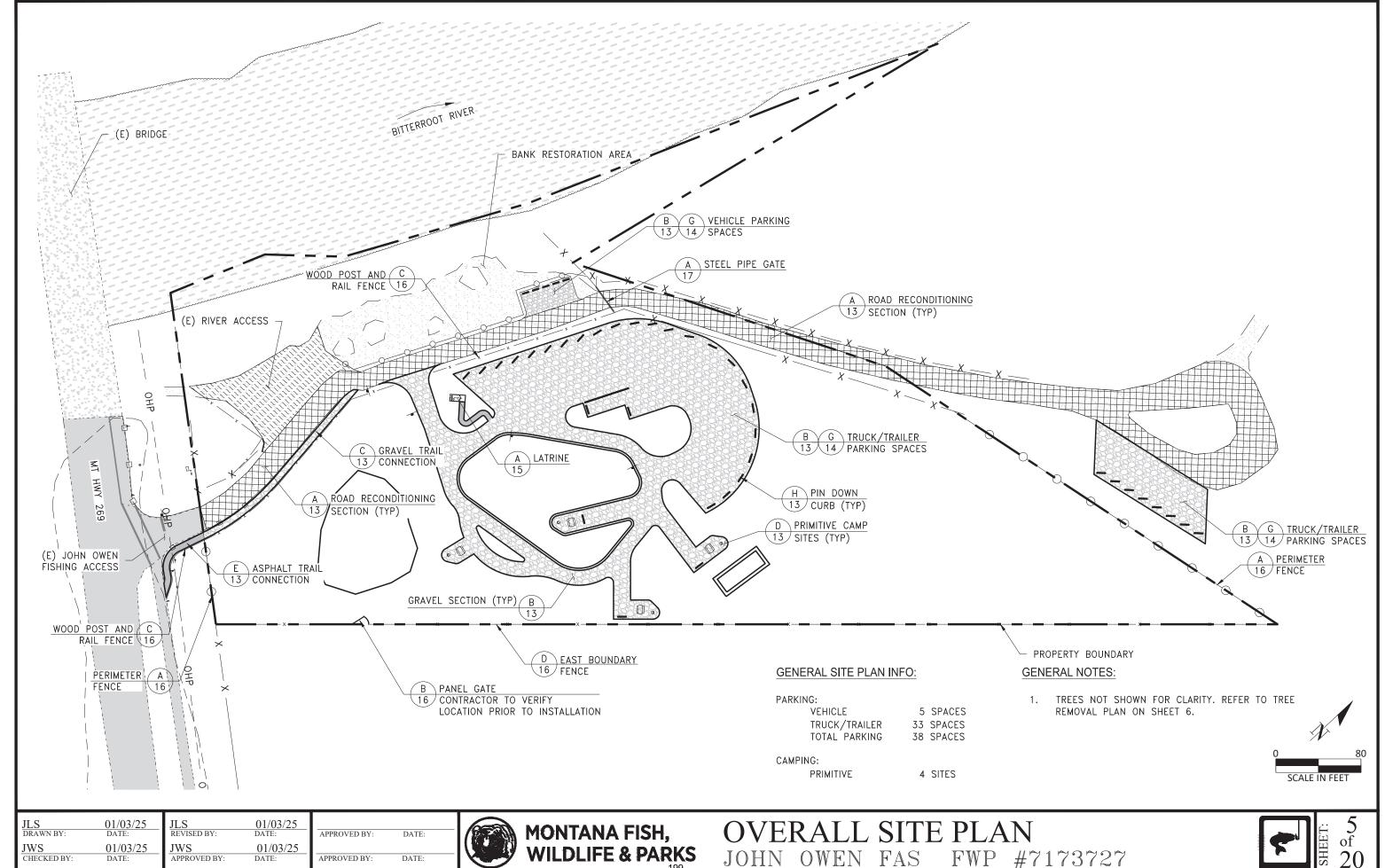








JOHN OWEN FAS FWP #7173727



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JWS 01/03/25 DATE:

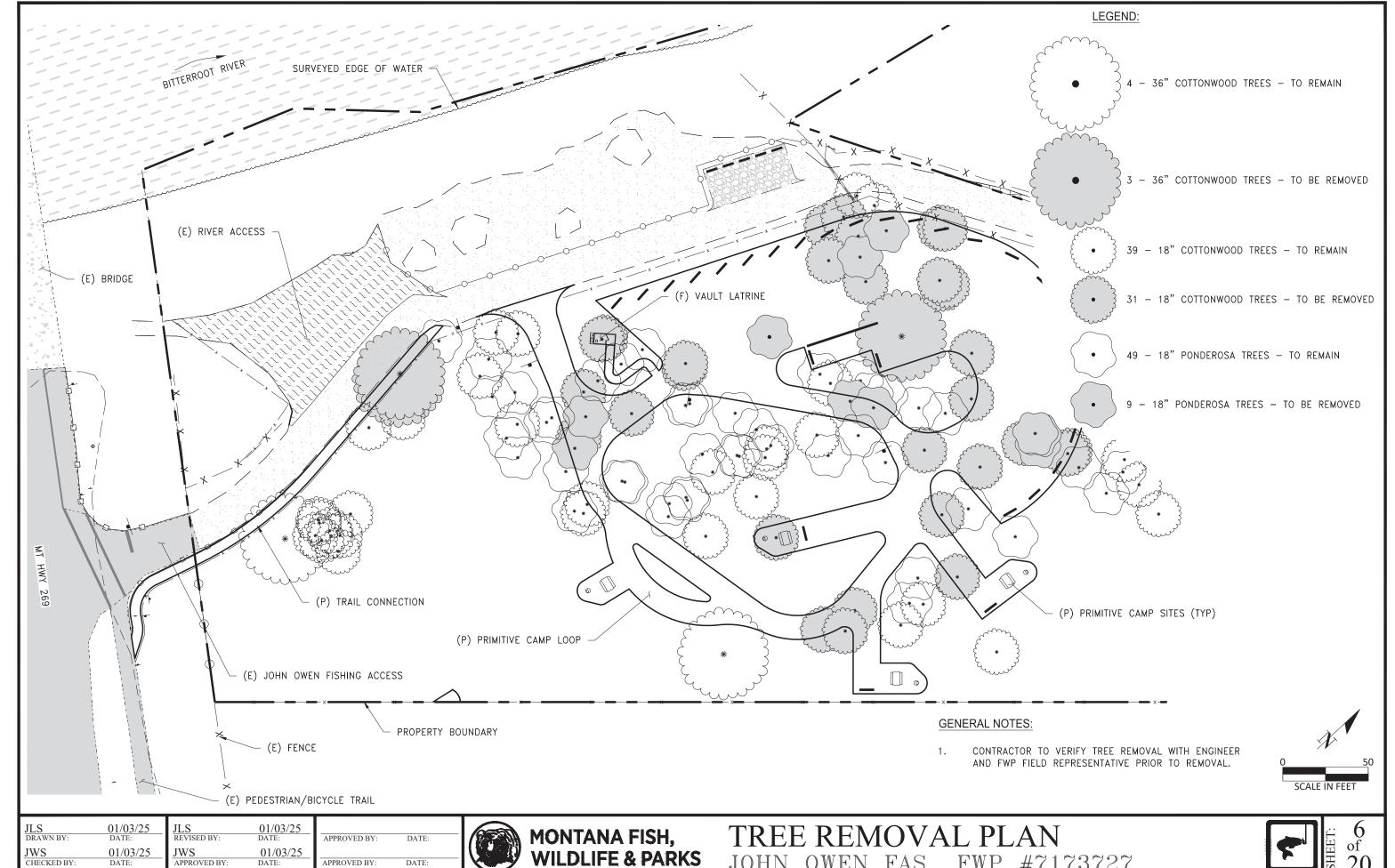
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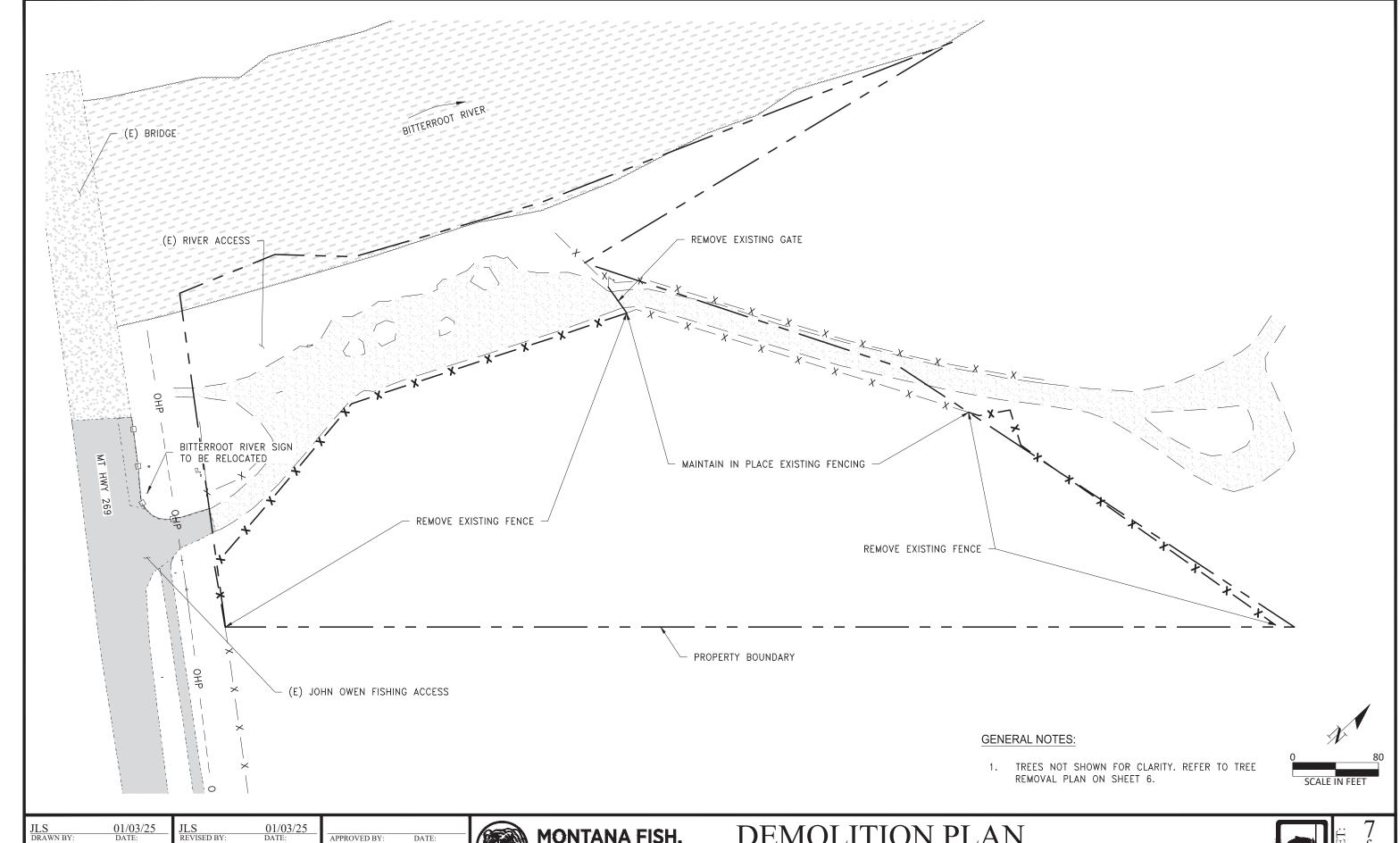
OVERALL SITE PLAN JOHN OWEN FAS FWP #7173727







MONTANA FISH, WILDLIFE & PARKS

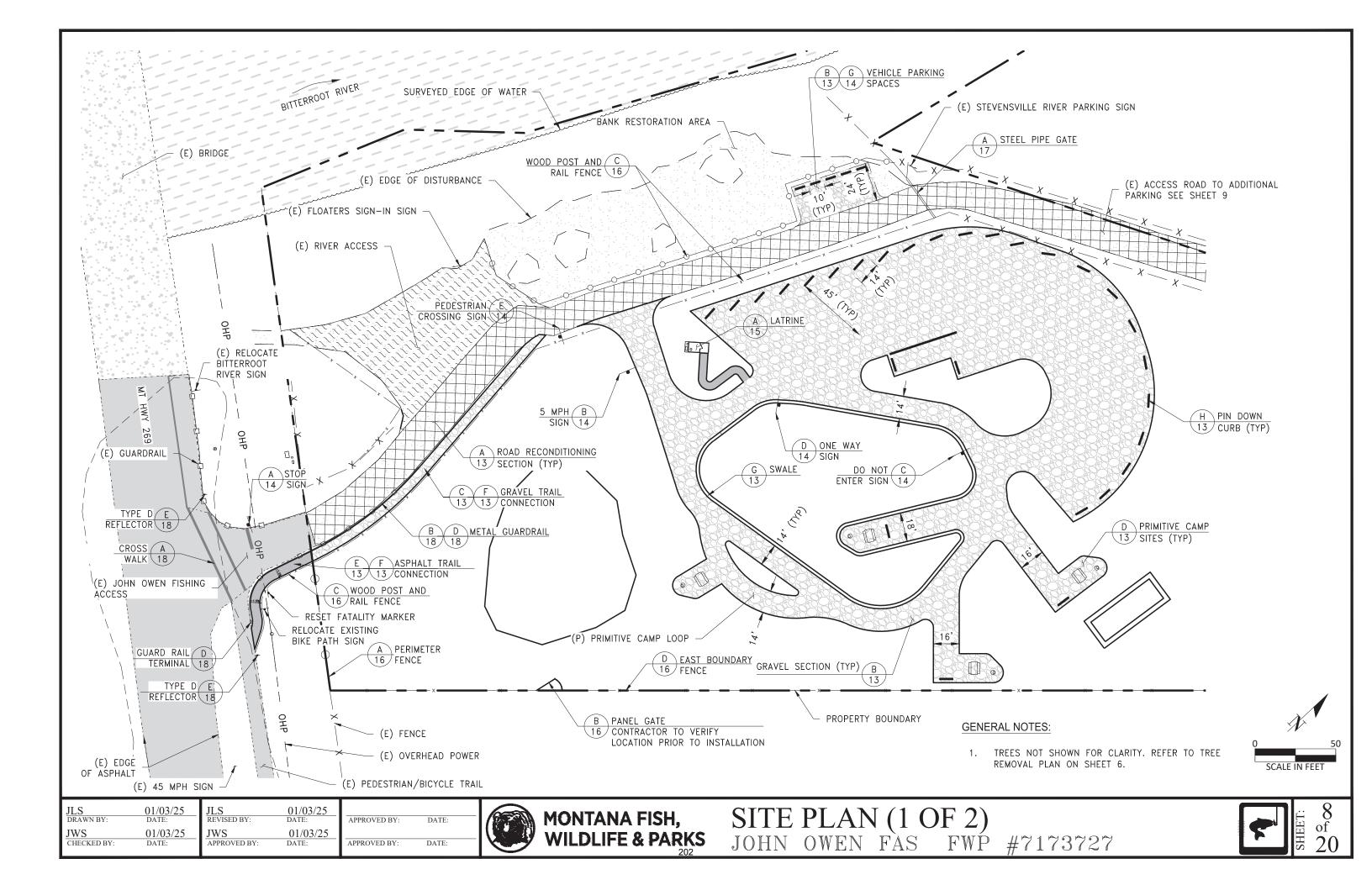


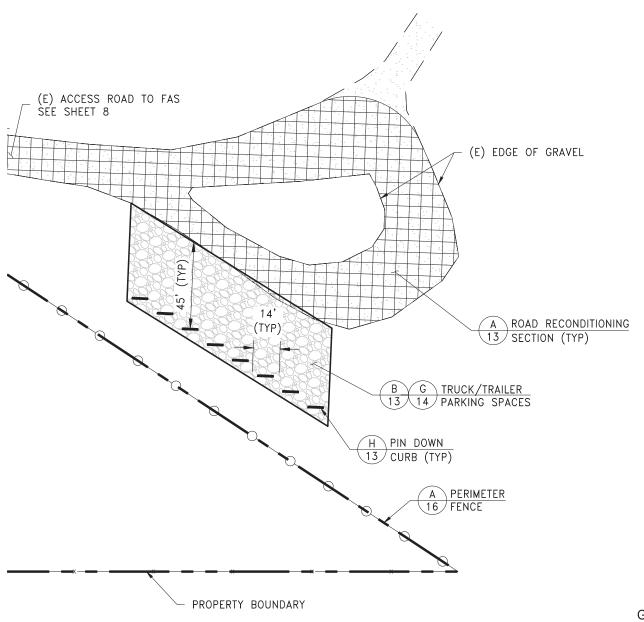
MONTANA FISH, WILDLIFE & PARKS

01/03/25 DATE: JWS

01/03/25 DATE: DEMOLITION PLAN
JOHN OWEN FAS FWP #7173727

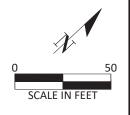






#### **GENERAL NOTES:**

1. TREES NOT SHOWN FOR CLARITY. REFER TO TREE REMOVAL PLAN ON SHEET 6.



9 of 20

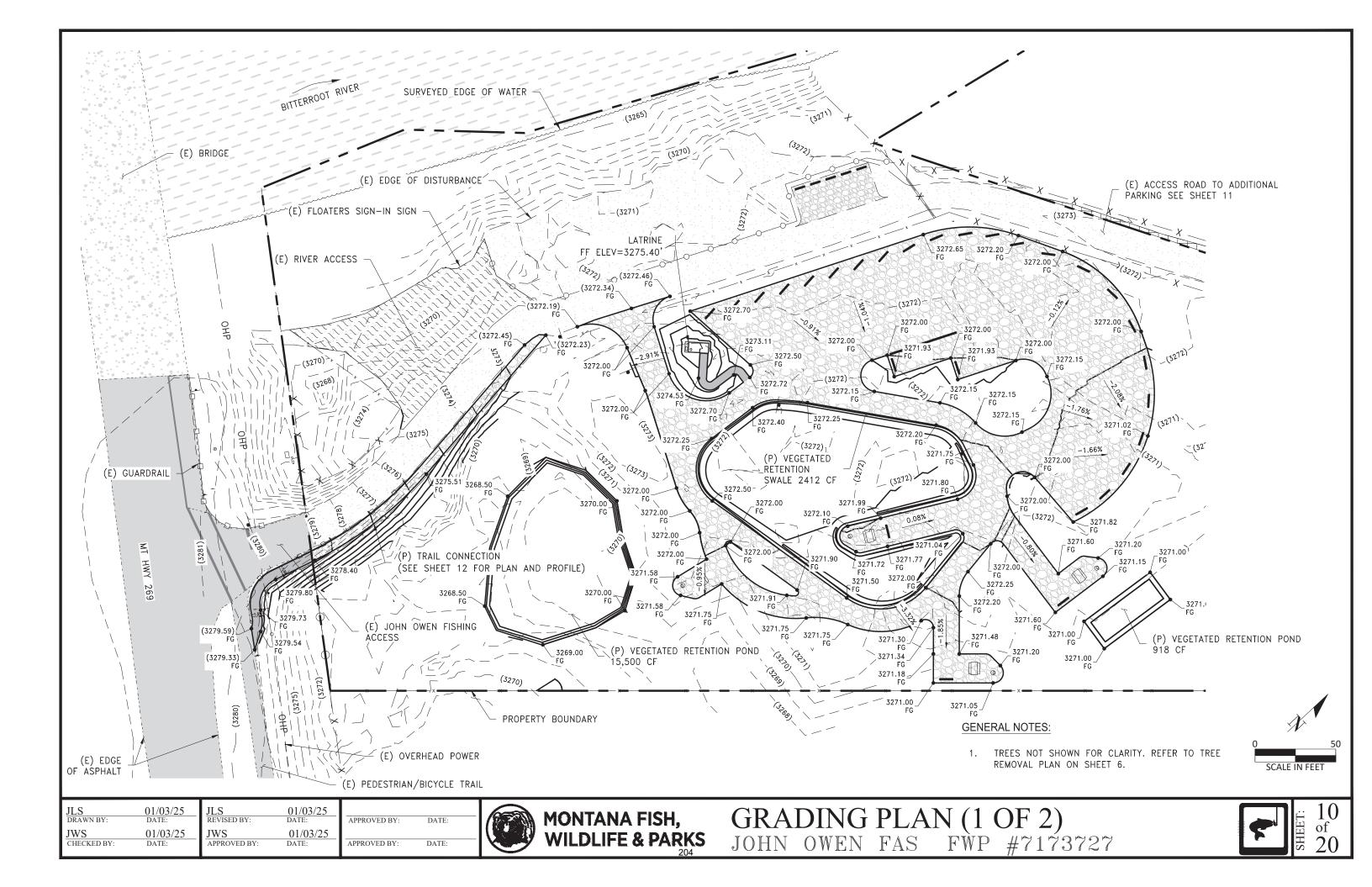
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JWS CHECKED BY:	01/03/25 DATE:	JWS APPROVED BY:

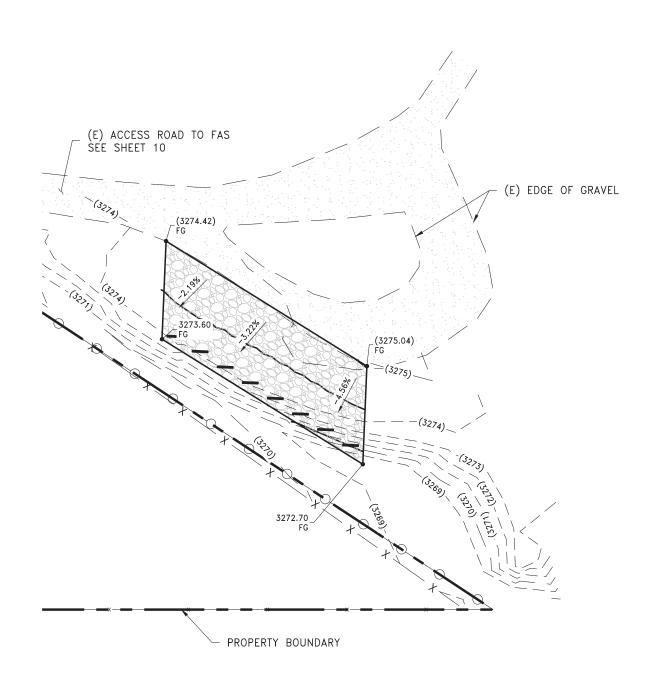
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01/03/25		
DATE:	APPROVED BY:	DATE:



SITE PLAN (2 OF 2)
JOHN OWEN FAS FWP #7173727

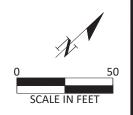






#### GENERAL NOTES:

 TREES NOT SHOWN FOR CLARITY. REFER TO TREE REMOVAL PLAN ON SHEET 6.



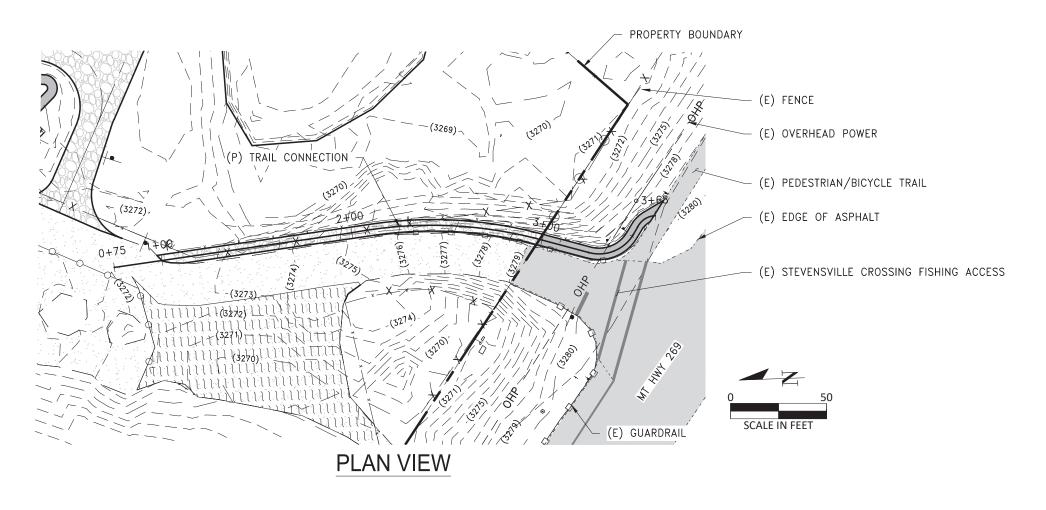
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JWS	01/03/25	JWS	01/03/25
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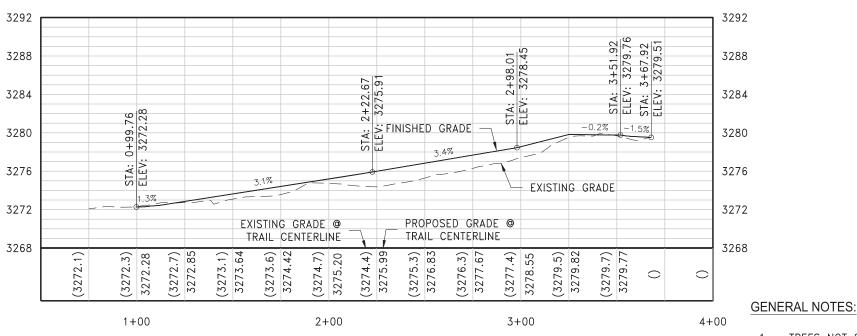
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GRA]	DING	PLA	N(2)	OF 2)
JOHN	OWEN	FAS	FŴP	#717372







**PROFILE VIEW** 

1. TREES NOT SHOWN FOR CLARITY. REFER TO TREE REMOVAL PLAN ON SHEET 6.

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JWS	01/03/25
CHECKED BY:	DATE:

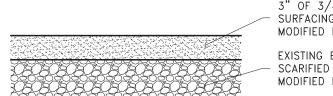
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REVISED BY:	DATE:
JWS	01/03/25
APPROVED BY:	DATE:

-	APPROVED BY:	DATE:
-	APPROVED BY:	DATE:



PEDESTRIAN PATH PLAN & PROFILE JOHN OWEN FAS FWP #7173727





TYPICAL ROAD RECONDITIONING SECTION

1. PLEASE SEE TABLE A-1 FOR MATERIAL SPECIFICATIONS.

PICNIC TABLE

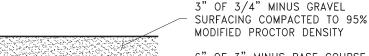
3" OF 3/4" MINUS GRAVEL SURFACING COMPACTED TO 95% MODIFIED PROCTOR DENSITY

EXISTING BASE COURSE SCARIFIED COMPACTED TO 95% MODIFIED PROCTOR DENSITY

NOT TO SCALE

13

NOTE:



6" OF 3" MINUS BASE COURSE COMPACTED TO 95% MODIFIED PROCTOR DENSITY

INSTALL MIRIFI 140N NON-WOVEN GEOTEXTILE OR APPROVED EQUAL

NOT TO SCALE

SUBGRADE, SCARIFIED AND COMPACTED TO 95% MODIFIED

PROCTOR DENSITY PER ASTM D1557

1. PLEASE SEE TABLE A-1 FOR MATERIAL SPECIFICATIONS.

3" OF 3/4" MINUS GRAVEL SURFACING COMPACTED TO 95% MODIFIED PROCTOR DENSITY

INSTALL MIRIFI 140N NON-WOVEN GEOTEXTILE OR APPROVED EQUAL

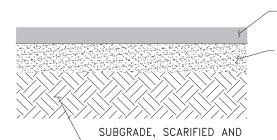
SUBGRADE, SCARIFIED AND

COMPACTED TO 95% MODIFIED PROCTOR DENSITY

#### **GRAVEL TRAIL SECTION**

NOT TO SCALE

1. PLEASE SEE TABLE A-1 FOR MATERIAL SPECIFICATIONS.



PROCTOR DENSITY

2" ASPHALT CONCRETE COMPACTED TO 93% RICE DENSITY 4" OF 3/4" MINUS GRAVEL SURFACING COMPACTED TO 95%

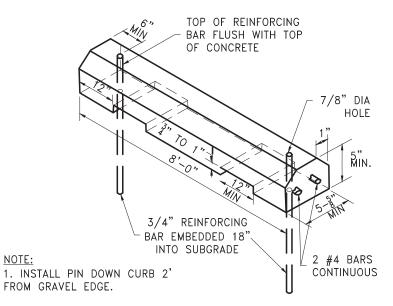
MODIFIED PROCTOR DENSITY

SUBGRADE, SCARIFIED AND COMPACTED TO 95% MODIFIED

#### ASPHALT TRAIL SECTION 13

NOT TO SCALE

NOTE: 1. PLEASE SEE TABLE A-1 FOR MATERIAL SPECIFICATIONS.



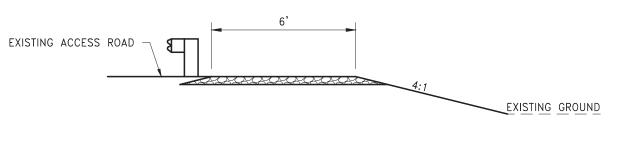
13 NOTE:

TABLE A-1

TYPICAL GRAVEL SECTION

GRADATION SPECIFICATIONS			
SIEVE SIZE	GRAVEL SURFACING BASE COURSE % SPECIFICATION % SPECIFICATION		
3" (75 мм)		100	
2" (50 MM)			
1" (25 MM)			
3/4" (19 MM)	100		
1/2" (12.5 MM)			
3/8" (9.5 MM)			
#4 (4.75 MM)	40-70	25-60	
#8 (2.36 MM)			
#10 (2 MM)	25-55		
#40 (425 μm)			
#200 (75 μm)	2-10*	12	

Σ PREFABRICATED (TYP) METAL FIRE RING CAMPSITE LIVING AREA DETAIL NOT TO SCALE 13 /



APPROVED BY

APPROVED BY

PEDESTRIAN TRAIL SECTION

NOT TO SCALE

**VARIES** VAIRES SLOPE VARIES **VARIES** (1' MIN) RE-VEGETATE AFTER CUTTING SWALE

TYPICAL SWALE DETAIL

NOT TO SCALE

 $^{'}$ н $^{'}$  PIN DOWN CURB DETAIL 13

NOT TO SCALE

JLS DRAWN BY 01/03/25 DATE: JWS 01/03/25 CHECKED BY

13

NOTE:

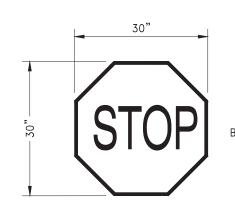
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DATE:

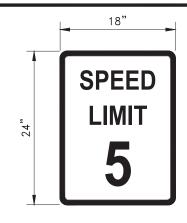
MONTANA FISH, **WILDLIFE & PARKS**  TYPICAL SECTIONS DETAILS JOHN OWEN FAS FWP #7173727



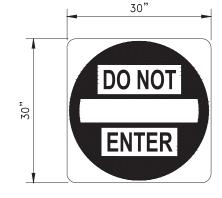
of



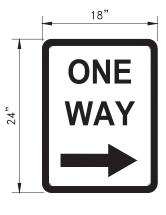
MUTCD - R1-1 TEXT - WHITE BACKGROUND - RED BORDER - WHITE



MUTCD - R2-1 TEXT - BLACK BACKGROUND - WHITE BORDER - BLACK



MUTCD - R5-1 TEXT - RED BACKGROUND - WHITE BORDER - BLACK



MUTCD - R6-2R TEXT - BLACK BACKGROUND - WHITE BORDER - BLACK

NOT TO SCALE

A STOP SIGN 14

NOT TO SCALE

5 M.P.H. SPEED LIMIT SIGN NOT TO SCALE 14

DO NOT ENTER SIGN 14

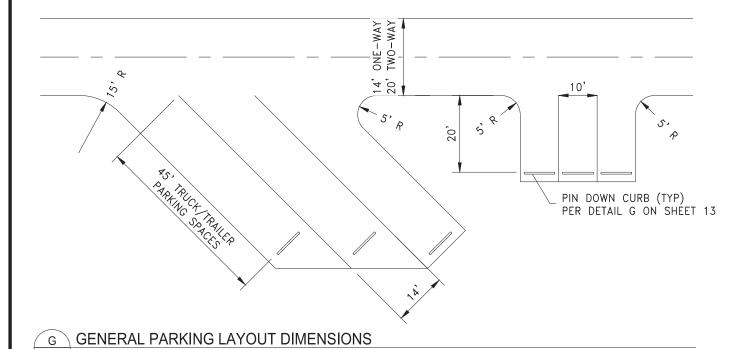
NOT TO SCALE

ONE WAY SIGN

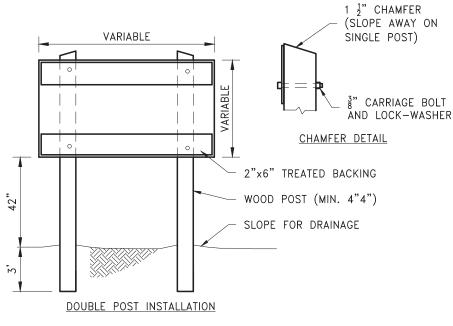


MUTCD - W11-2 IMAGE - BLACK BACKGROUND - YELLOW BORDER - BLACK

PEDESTRIAN CROSSING SIGN



VARIABLE WOOD POST (MIN. 4"4") SLOPE FOR DRAINAGE SINGLE POST INSTALLATION



- 1. USE PRESSURE TREATED TIMBERS FOR ALL SIGN POSTS. NEED BREAK-AWAY HOLES (OR DEVICE) FOR LARGER POSTS.
- 2. COAT ALL POSTS WITH PRESERVATIVE FOR ALL DRILLED HOLES AND CUT SURFACES.
- 3. USE CADMIUM PLATED OR GALVANIZED STEEL FOR ALL BOLTS, NUTS & WASHERS.
- 4. PLACE BOLTS TO NOT INTERFERE WITH SIGN LETTERING. PAINT BOLT HEADS TO MATCH SIGN.
- 5. CENTER SINGLE POST PANELS TO POST, OVERHANG PANELS 3" BEYOND POSTS FOR DOUBLE POST INSTALLATIONS. EXTEND ALL POSTS 3" ABOVE SIGN PANELS.

SIGN INSTALLATION DETAIL

NOT TO SCALE

01/03/25 DATE: JLS DRAWN BY JWS 01/03/25 CHECKED BY

JLS REVISED BY 01/03/25 DATE: JWS 01/03/25 APPROVED BY

APPROVED BY DATE: APPROVED BY

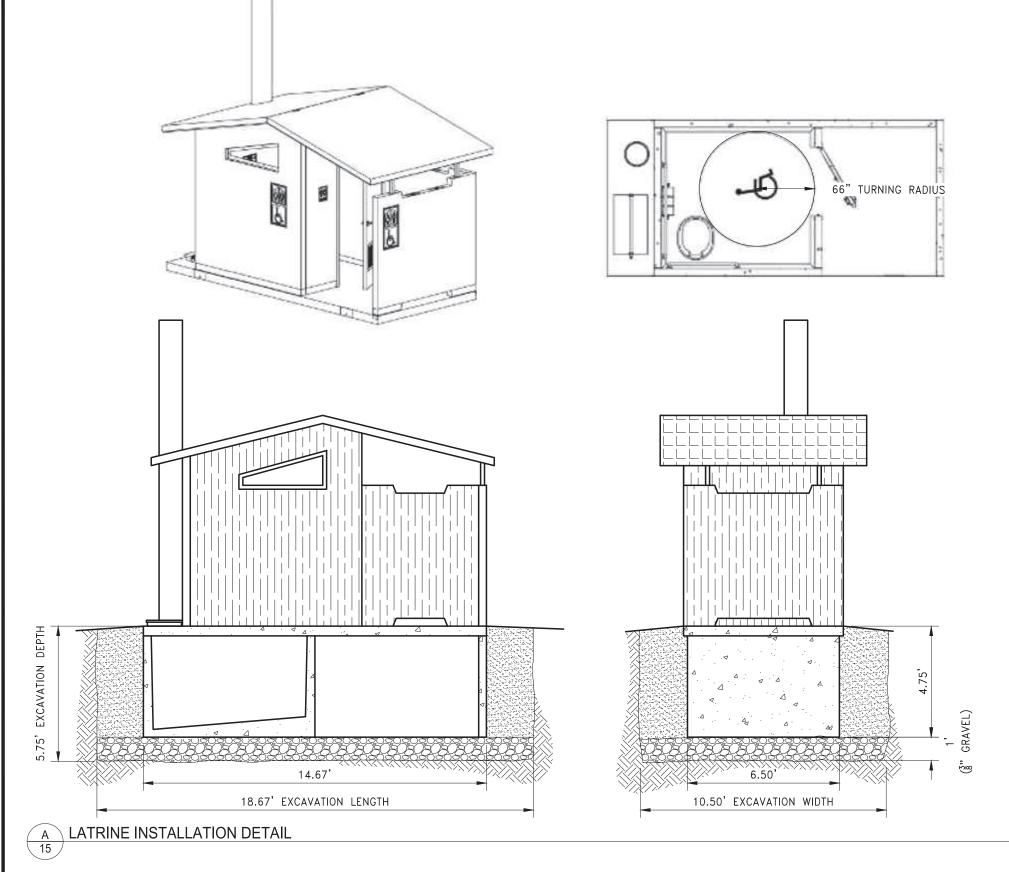


NOT TO SCALE

SIGN AND PARKING DETAILS JOHN OWEN FAS FWP #7173727



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#### **GENERAL**

THE LATRINE WILL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR.

#### INSTALLATION

GENERAL INSTALLATION INVOLVES EXCAVATION, LEVELING BOTTOM OF HOLE WITH DRAIN AGGREGATE, INSTALLING LATRINE, BACKFILLING AROUND LATRINE AND LANDSCAPING.

#### **EXCAVATION:**

- A. EXCAVATE SUBSOIL TO A POINT 12 INCHES DEEPER THAN REQUIRED FOR LATRINE INSTALLATION.
  - 1. DEPTH OF EXCAVATION IS 5.75' FOR THE PRECAST LATRINES MANUFACTURED BY MISSOULA CONCRETE.
  - 2. FINISH FLOOR ELEVATION IS SHOWN ON THE SITE PLAN.
- B. MINIMIZE OVER EXCAVATION. STOCKPILE EXCAVATED MATERIAL FOR LATER BACKFILLING AND LANDSCAPING.
- C. COMPACT BOTTOM OF HOLE WITH THREE PASSES OF WHACKER OR SKID PLATE COMPACTION DEVICE.

#### LEVELING:

- A. USE SMALL GRAVEL, 3/8 INCH MINUS CRUSHED OR SCREENED GRAVEL, AND PLACE ENOUGH IN BOTTOM OF HOLE SUCH THAT WHEN COMPACTED, IT WILL BE 12 INCHES DEEP.
- B. COMPACT LEVELING MATERIAL WITH THREE PASSES OF COMPACTION DEVICE.
- C. LEVEL BASE FOR INSTALLATION OF LATRINE.

#### LATRINE INSTALLATION:

- A. THE PRECAST LATRINE WILL BE SET BY THE SUPPLIER.
- B. INSURE THAT LATRINE SITS LEVEL AND PLUMB WHEN DONE INSTALLING.

#### BACKFILLING:

- A. PLACE IN SUCCESSIVE 8 INCH LAYERS MATERIAL PREVIOUSLY EXCAVATED FROM HOLE AND COMPACT.
  - REMOVE ROCKS LARGER THAN 6 INCHES IN DIAMETER FROM THE FILL.
     REMOVE BRANCHES, ROOTS AND OTHER OR ORGANIC DEBRIS IN FILL.
  - ,

#### LANDSCAPING:

- A. SLOPE GRADE AWAY FROM LATRINE.
- B. BLEND FILL SLOPE INTO SURROUNDING TERRAIN.
- C. REMOVE SURPLUS FILL MATERIAL.
- D. REMOVE SOIL TO A DEPTH OF 2 INCHES BENEATH LOCATION FOR ENTRANCE SLAB AND COMPACT.
- E. PLACE TWO INCHES OF 3/4 INCH PEA GRAVEL FOR BEDDING, LEVEL AND COMPACT.

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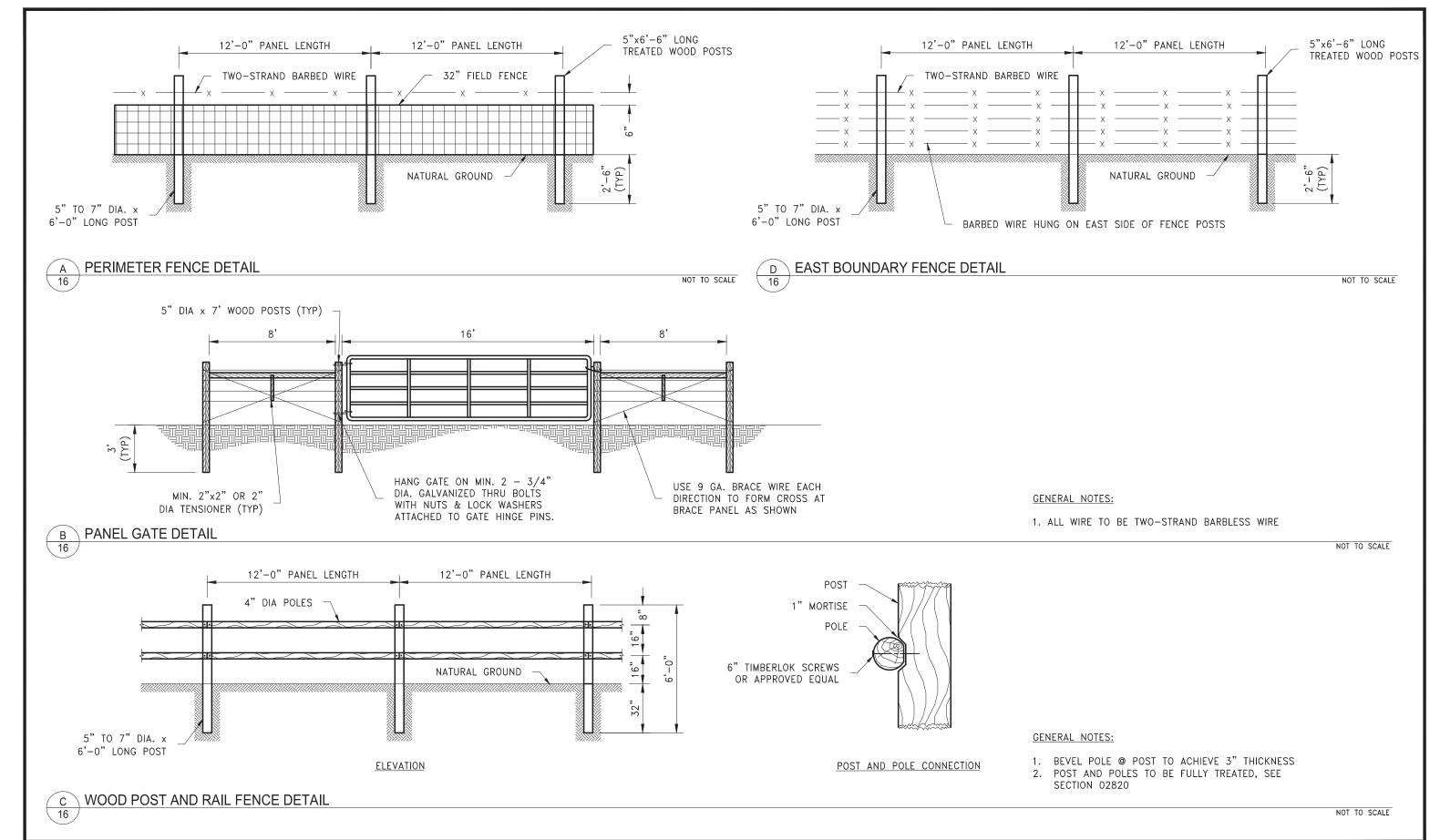
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LATRINE DETAILS
JOHN OWEN FAS FWP #7173727





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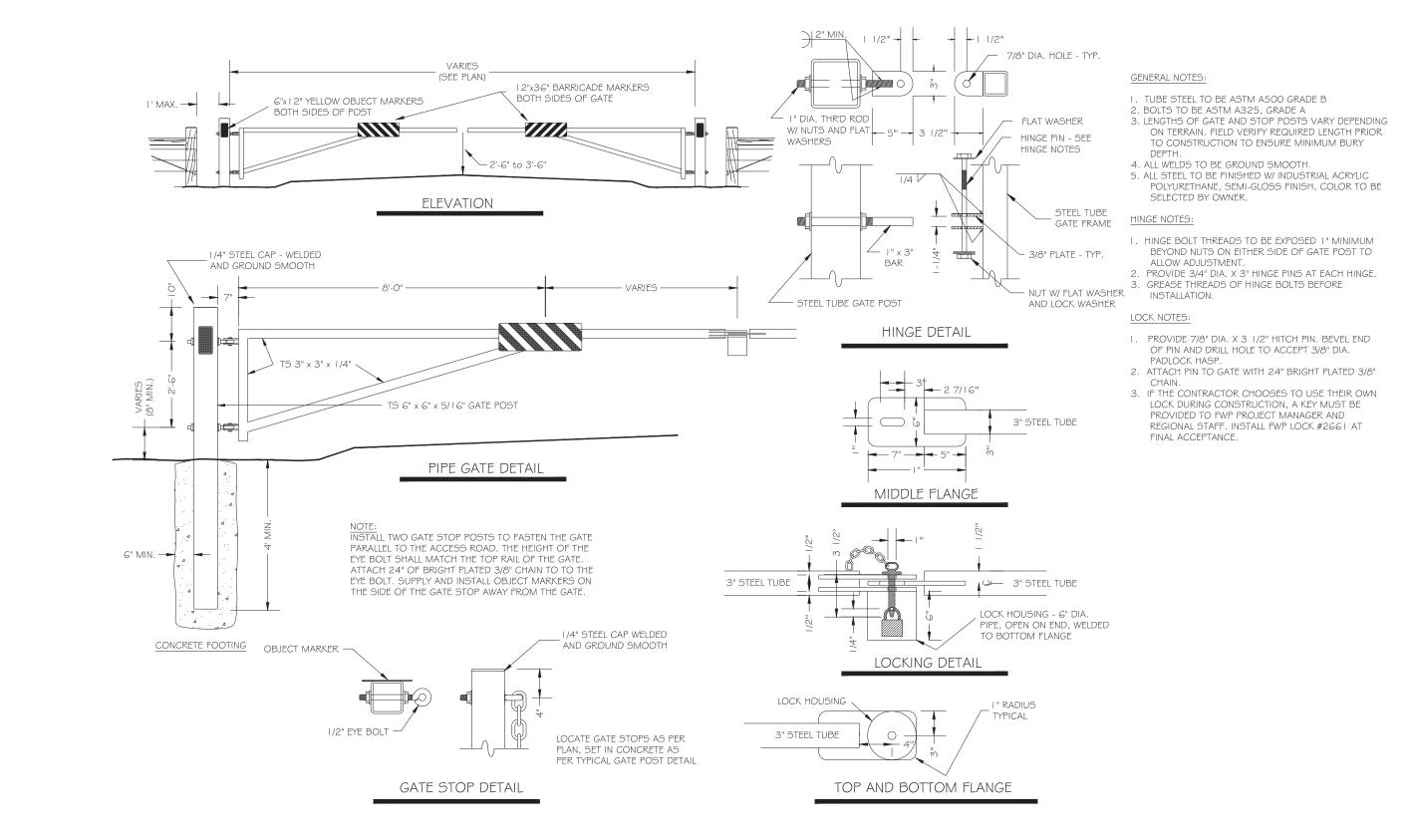
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MONTANA FISH, WILDLIFE & PARKS	FENC	CING I	DETA	AILS	
WILDLIFE & PARKS	JOHN	OWEN	FAS	FWP	#7173727





STEEL PIPE GATE INSTALLATION DETAIL 17

NOT TO SCALE

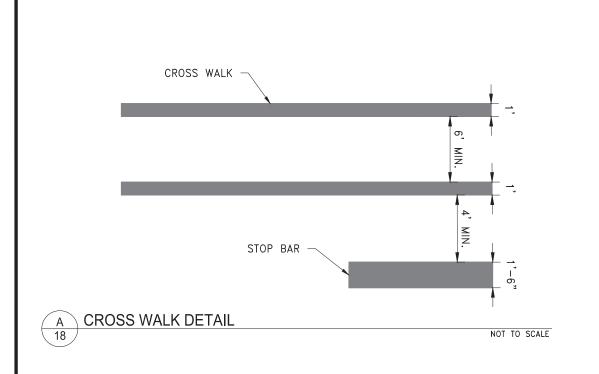
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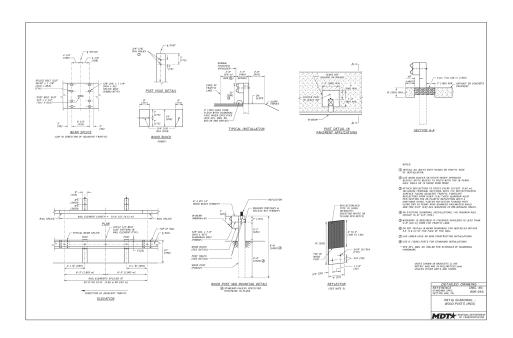
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GATE DETAILS JOHN OWEN FAS FWP #7173727

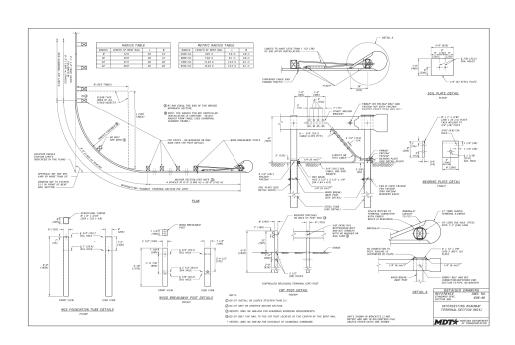






METAL GUARDRAIL WITH WOOD POSTS DETAIL

NOT TO SCALE



\* SEE DTL. DWG. NO. 696-80 FOR SCHED OF GUARDRAIL HARDWARF.

4 1/4" (102) (102) - 7 150 SLOTTED HOLES 29/32" x 1 1/0" [23:0 x 28:6] W-BEW METAL GUARDRAL HARDWARE

DESIGN C USAGE: USE FOR CURVES WITH RADII 572 [170 m] OR LESS, BOTH SUTSIDE AND INSIDE OF CURVE. 7 - 0.065 + 5 1/F 125 + 16 + 125/ AUMINOS 57949 150/1 BOTES:

D SOME TYPYCAL USES ARE SHOWN FOR EACH DESIGN. RETER TO THE BOTTO FOR SPECIAL GOLDWICE.

D USE HARDWARE MEETING THE REQUIREMENTS OF SECTION TON. UNITS SHOWN IN BRACKETS [] ARE METRIC AND ARE IN MILLIMETERS (\*) DETAILED DRAWING
REFERENCE DWG, NO
STHODARD SPEC. 619-34

D W-BEAM RUB RAIL DETAIL

TYPE D REFLECTORS DETAIL

NOT TO SCALE

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GUARDRAIL TERMINAL DETAIL

APPROVED BY DATE:

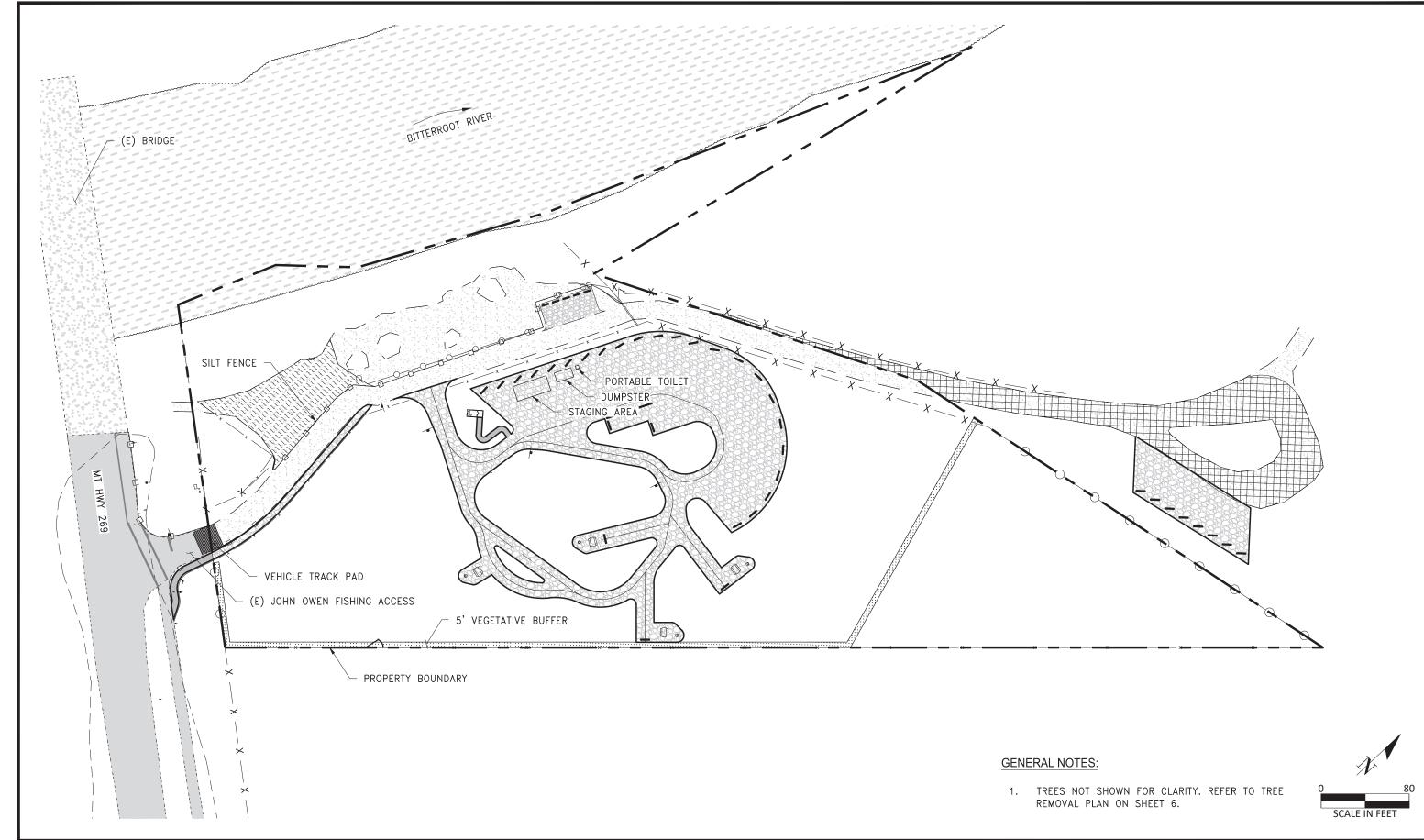
NOT TO SCALE



RIGHT OF WAY DETAILS JOHN OWEN FAS FWP #7173727

NOT TO SCALE





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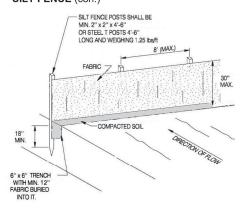
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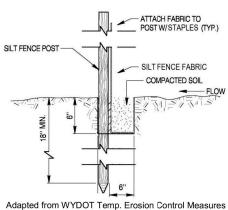


EROSION CONTROL PLAN
JOHN OWEN FAS FWP #7173727



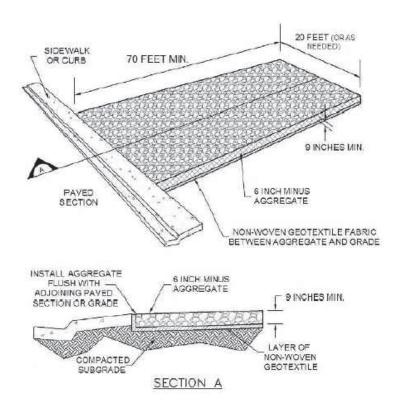
#### SILT FENCE (con.)





(A) SILT FENCE DETAIL

NOT TO SCALE



#### VEHICLE TRACK PAD Not to Scale

B VEHICLE TRACK PAD DETAIL 19

NOT TO SCALE

1. VEHICLE TRACK PAD IS TEMPORARY AND SHALL BE REMOVED AFTER CONSTRUCTION.

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**EROSION CONTROL DETAILS** JOHN OWEN FAS FWP #7173727



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