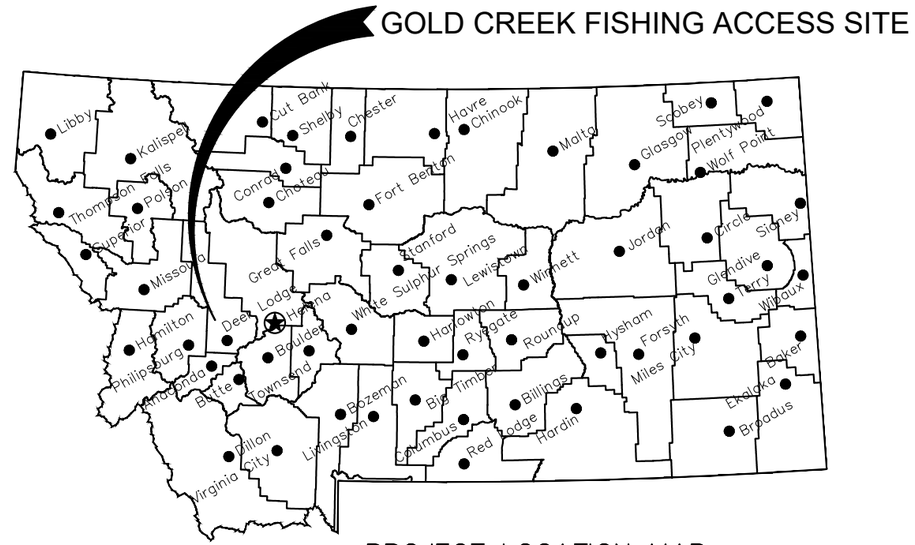
PLANS FOR CONSTRUCTION OF:

GOLD CREEK FISHING ACCESS SITE

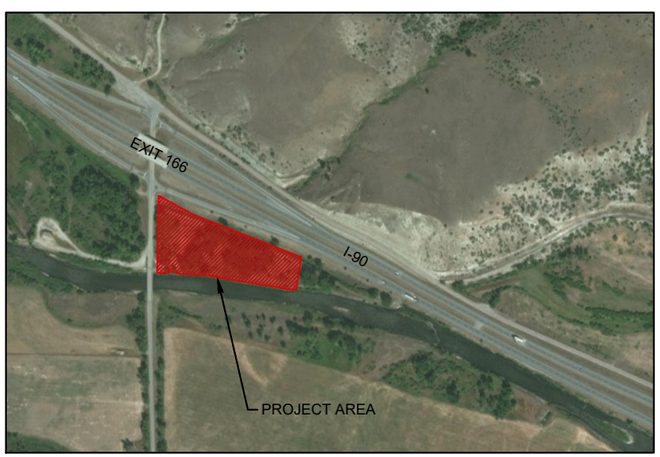
NEAR DRUMMOND, MONTANA
FWP #7163618

SHEET INDEX

TITLE SHEET	T1
NOTES AND DETAILS	C1
SITE PLAN	C2
ACCESS LOOP PLAN AND PROFILE	C3
BOAT RAMP PLAN AND PROFILES	C4
LATRINE DETAIL	C5
CAST-IN-PLACE BOAT RAMP	C6
PUSH-IN BOAT RAMP DETAILS	C7
TIMBER STEP DETAILS	C8
EROSION CONTROL DETAILS	C9



PROJECT LOCATION MAP



PROJECT VICINITY MAP

LEGEND

EXISTING FEATURES	PROPOSED FEATURES
ASPHALT	GRAVEL SURFACING
BRIDGE	CONCRETE BOAT RAMP OR SIDEWALK
RIVER	SIGN
WETLAND AREA DO NOT DISTURB	WOOD RAIL FENCE
WETLAND AREA DISTURBANCE ALLOWED	LATRINE
DECIDUOUS TREE	4186.20 SPOT ELEVATION
CULVERT/IRRIGATION PIPE	LANDSCAPING ROCK
WIRE FENCE	18" CMP
PROPERTY LINE	CURB STOP

MONTANA
JEFFREY L. LARSON
9455 P.E.
REGISTERED
PROFESSIONAL ENGINEER
7-17-18

J. LARSON	JULY 17, 2018			
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J. LARSON	JULY 17, 2018	J. LARSON	JULY 17, 2018	
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MONTANA FISH, WILDLIFE & PARKS

TITLE SHEET
GOLD CREEK FISHING ACCESS SITE
FWP #7163618

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SHEET: T1

CONSTRUCTION NOTES:

1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH "MONTANA PUBLIC WORKS SPECIFICATIONS", SIXTH EDITION (MPW).
2. BEFORE DIGGING, CALL 811 FOR LOCATION OF EXISTING UTILITIES. THE LOCATION OF UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND WERE DERIVED PRIMARILY FROM AS-BUILT DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF PRIVATE UTILITIES WITHIN THE PROJECT AREA, NOT LOCATED BY UTILITY COMPANIES.
3. ALL DISTURBED AREAS AND AREAS DESIGNATED IN THE PLANS FOR SEEDING SHALL BE TOPSOILED, SEEDED, MULCHED, AND FERTILIZED (SEE MPW SEEDING SPECIFICATIONS). SALVAGED TOPSOIL SHALL BE SPREAD EVENLY OVER DISTURBED AREAS. SEED MIX SHALL BE NATIVE DRYLAND MIX AS FOLLOWS:

PLANT SPECIES	LBS/ACRE
WESTERN WHEATGRASS	4.8 LBS
STREAMBANK WHEATGRASS	3.2 LBS
HARD FESCUE	3.2 LBS
SLENDER WHEATGRASS	2.4 LBS
GREEN NEEDLEGRASS	2.4 LBS
TOTALS	16.0 LBS

4. ALL EXCAVATION AND EMBANKMENT ON THIS PROJECT, SHALL MEET THE REQUIREMENTS OF MPW SPECIFICATION 02/230 STREET EXCAVATION, BACKFILL AND COMPACTION.
5. CONCRETE SHALL BE M-4000 AS DEFINED BY MPW SPECIFICATION 03/310 STRUCTURAL CONCRETE. REINFORCING STEEL SHALL BE ASTM 615, GRADE 60.
6. CONCRETE SLABS AND SUPPORT PADS SHALL BE CROSS SLOPED AT A MAXIMUM 1.8% OR AS INDICATED. CONCRETE SLABS SHALL BE BROOM FINISH.
7. ALL TESTING OF CONCRETE REQUIRED BY MPW SHALL BE PROVIDED BY AN INDEPENDENT TESTING FIRM AT THE EXPENSE OF THE CONTRACTOR. A MINIMUM OF TWO SETS OF CONCRETE TESTS SHALL BE PROVIDED FOR THE BOAT RAMP, ONE FOR EACH RAMP TYPE.
8. ALL REQUIRED COMPACTION TESTING SHALL BE PROVIDED BY AN INDEPENDENT TESTING FIRM AT THE EXPENSE OF THE CONTRACTOR, COMPACTION TESTING FREQUENCIES ARE AS FOLLOWS:

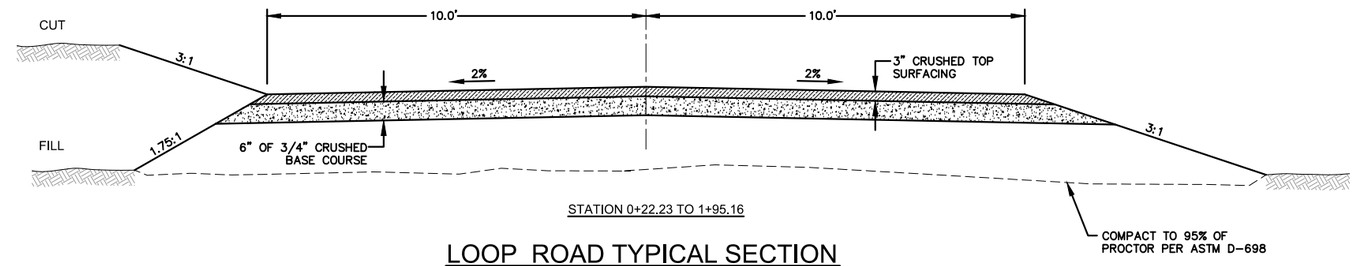
LOCATION/MATERIAL	# OF TESTS
APPROACH TO HIGHWAY – FILL	5
LOOP ROAD SUBGRADE	2
BOAT RAMP SUBGRADE	2
BOAT RAMP PARKING GRAVEL SURFACING	7

9. CRUSHED TOP SURFACING FOR GRAVEL SURFACING SHALL MEET THE FOLLOWING SPECIFICATIONS INCLUDING BINDER OR BLENDING MATERIAL:

SIEVE SIZE	% PASSING
3/4" SIEVE	100%
No. 4 SIEVE	40–80%
No. 10 SIEVE	25–60%
No. 200 SIEVE	8–20%

IN ADDITION, THE PORTION PASSING THE NO. 200 SIEVE CANNOT EXCEED 2/3 OF THE PORTION PASSING THE #40 SIEVE; THE MAXIMUM LIQUID LIMIT FOR THE MATERIAL PASSING THE NO. 40 SIEVE SHALL NOT EXCEED 35, WHILE THE PLASTICITY INDEX CAN VARY BETWEEN 3 AND 10; THE WEAR FACTOR SHALL NOT EXCEED 50% AT 500 REVOLUTIONS; AND AT LEAST 20% OF THE AGGREGATE RETAINED ON NO. 4 SIEVE SHALL HAVE A FRACTURED FACE.

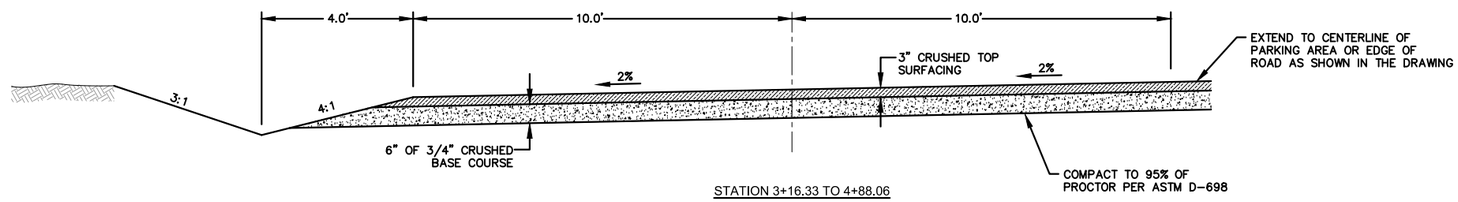
10. IMPORT MATERIAL REQUIRED TO COMPLETE EARTHWORK SHALL BE IMPORTED FROM OFF-SITE. IMPORT SHALL BE CLEAN MATERIAL, WITH OUT EXCESSIVE CLAY OR FINES, SUITABLE FOR STRUCTURAL FILL MATERIAL AND FREE OF DELETERIOUS MATERIALS.
11. TREES AND BRUSH IN CONFLICT WITH IMPROVEMENTS AND 5.0' BEYOND EDGE OF EARTHWORK SHALL BE COMPLETELY REMOVED INCLUDE ROOT SYSTEMS. MATERIAL CREATED BY TREE AND SHRUB REMOVAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN ENGINEER APPROVED LANDFILL.
12. THE CONTRACTOR SHALL AVOID DISRUPTING AREAS OF DELINEATED WETLANDS, EXCEPT WHERE SPECIFICALLY SHOWN AS DISTURBED BY CONSTRUCTION. FENCING AND EROSION CONTROL WORK IS ALLOWED, BUT CARE SHALL BE TAKEN TO MINIMIZE IMPACTS.
13. THE SITE CONTAINS SCRAP METAL AND DEBRIS. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL METAL FOUND WITHIN THE AREA EAST OF THE COUNTY ROAD, SOUTH OF THE CANAL, NORTH OF THE RIVER AND WEST OF A LINE 20' EAST OF THE EASTERN CONSTRUCTION LIMIT OF THE PROJECT.



STATION 0+22.23 TO 1+95.16

LOOP ROAD TYPICAL SECTION

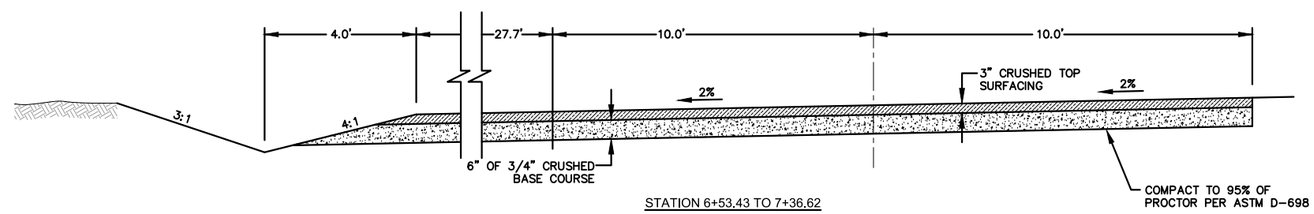
NO SCALE



STATION 3+16.33 TO 4+88.06

LOOP ROAD TYPICAL SECTION

NO SCALE

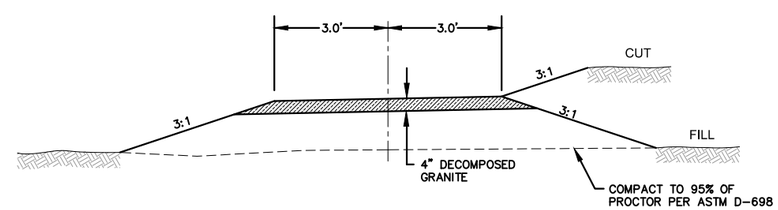


STATION 6+53.43 TO 7+36.62

LOOP ROAD TYPICAL SECTION

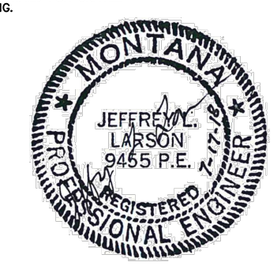
NO SCALE

NOTE:
AREAS OF THE PARKING AREA AND LOOP ROAD NOT INCLUDED IN SECTION STATION SHALL BE CONSTRUCTED TO THE DIMENSIONS AND GRADES SHOWN IN THE PLANS. GRAVEL SECTION THICKNESS SHALL REMAIN CONSISTENT THROUGHOUT AREA IDENTIFIED FOR GRAVEL SURFACING.



PEDESTRIAN TRAIL TYPICAL SECTION

NO SCALE



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MONTANA FISH, WILDLIFE & PARKS

NOTES AND DETAILS

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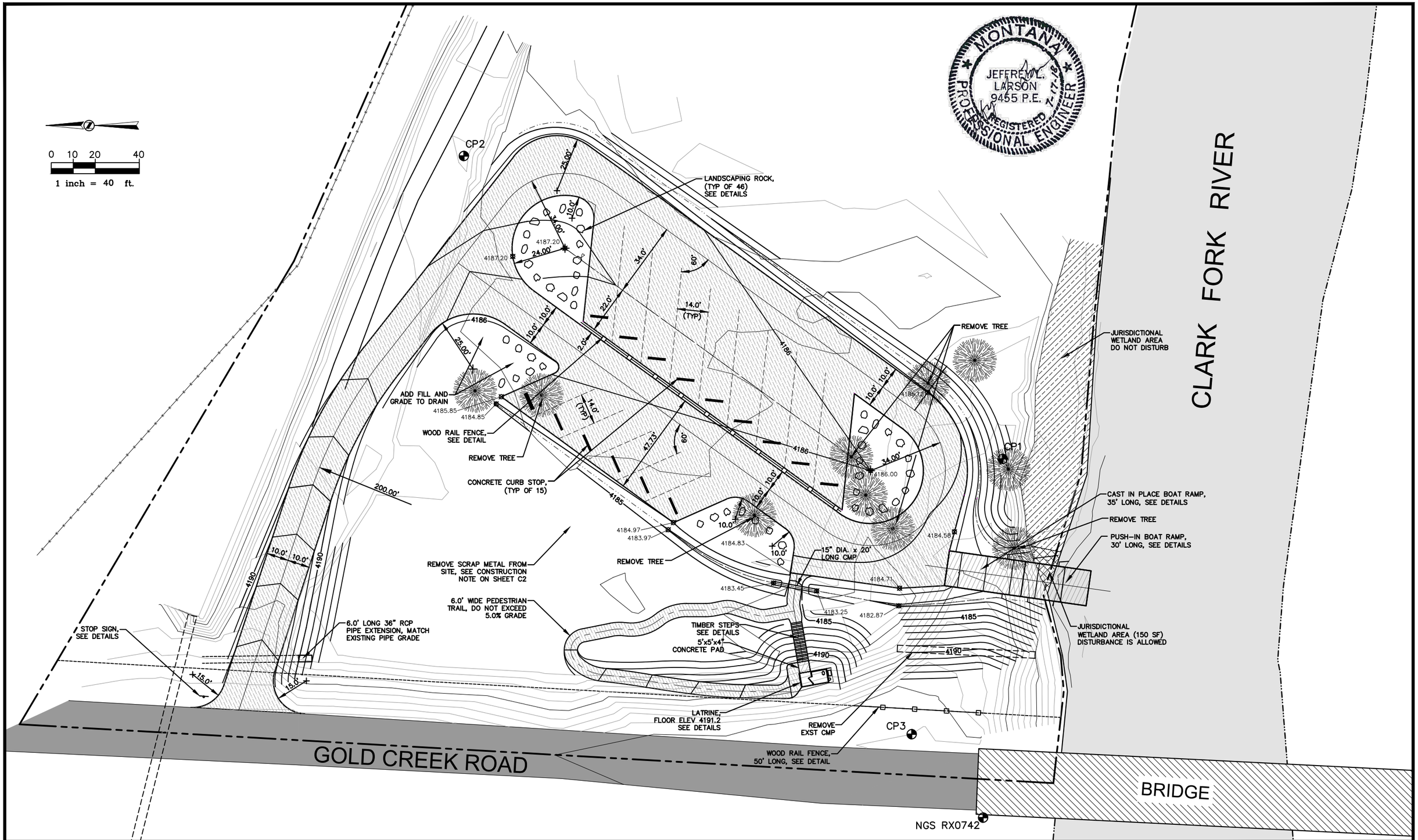

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SITE PLAN

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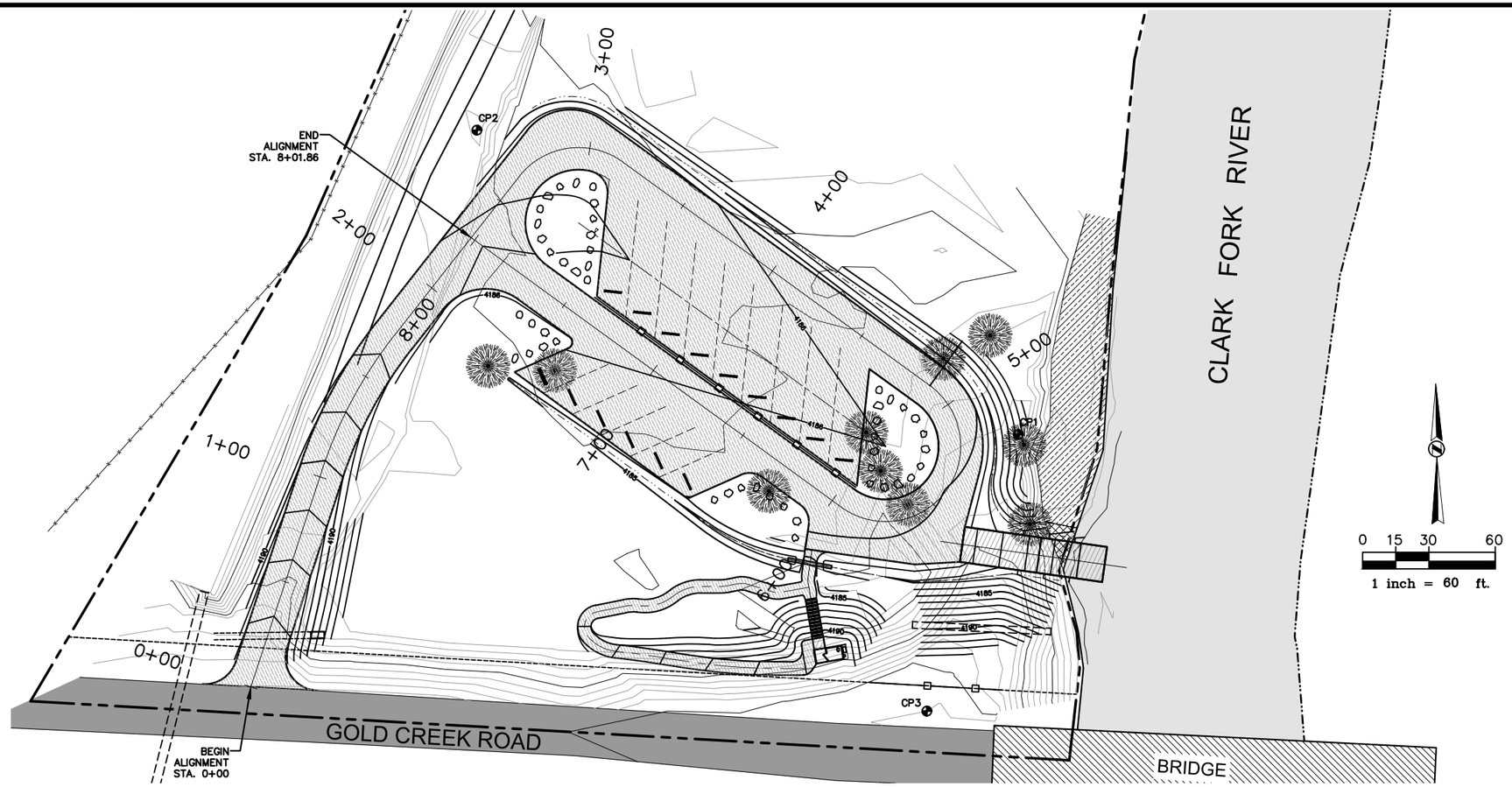
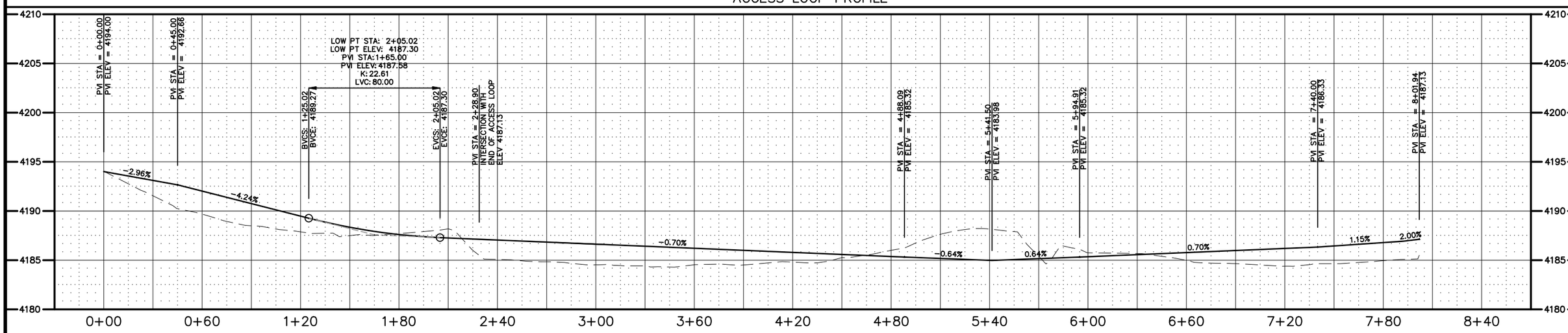


ACCESS LOOP PROFILE



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ACCESS LOOP PLAN AND PROFILE

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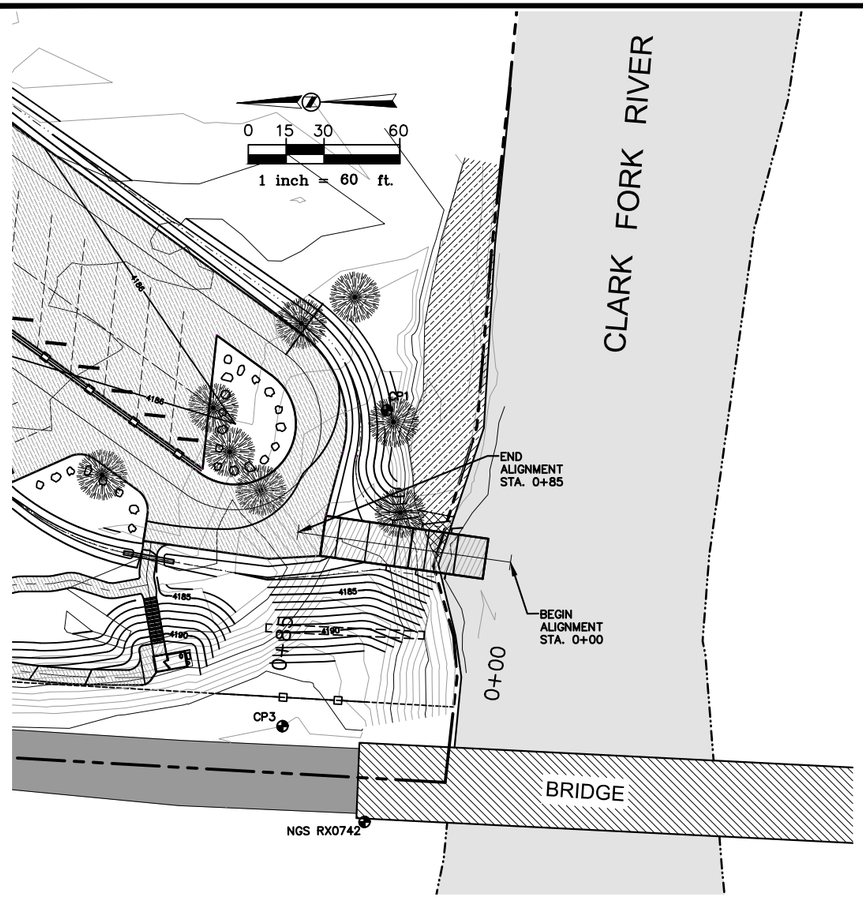
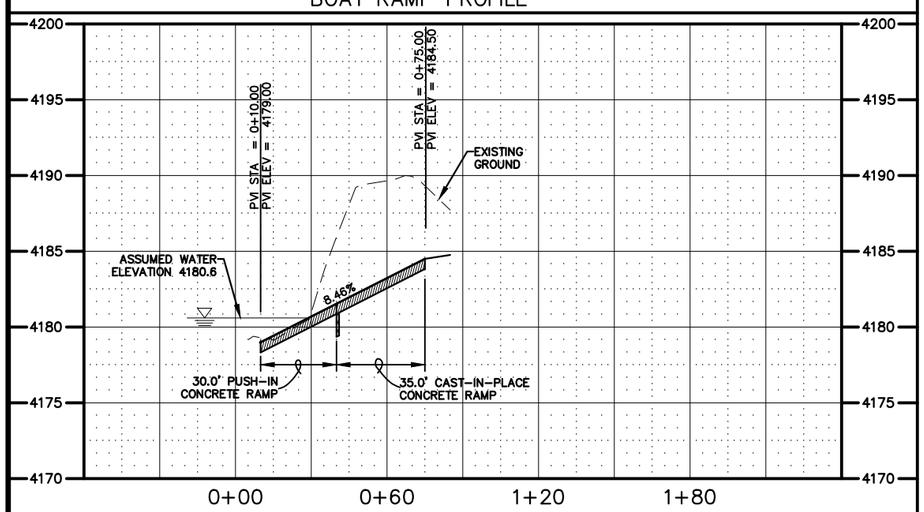
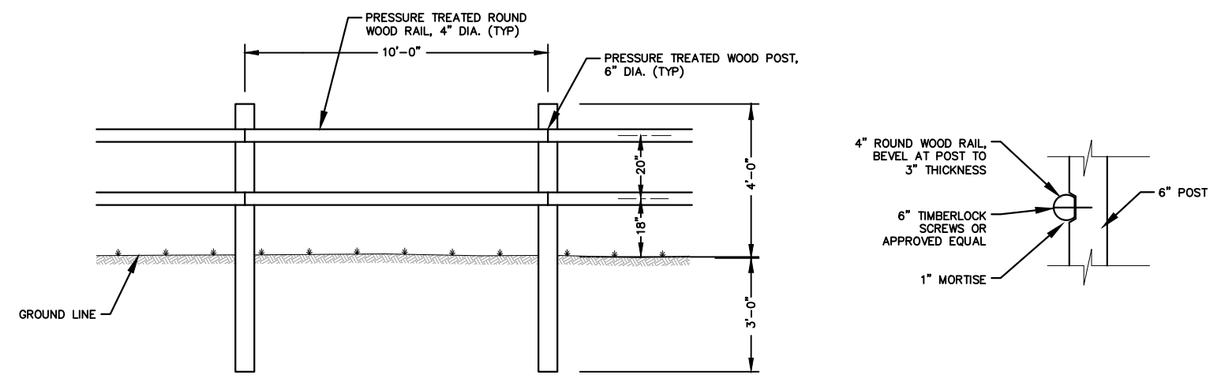


BOAT RAMP PROFILE



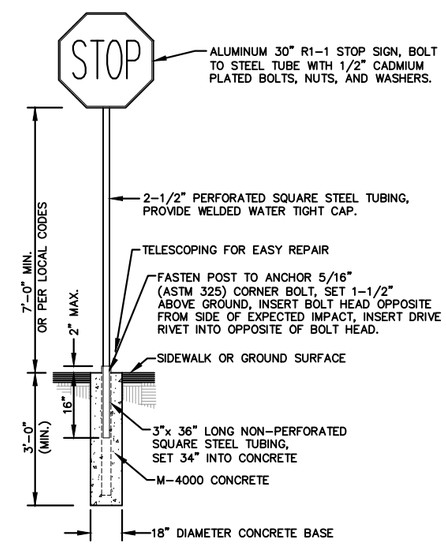


ELEVATION

SECTION

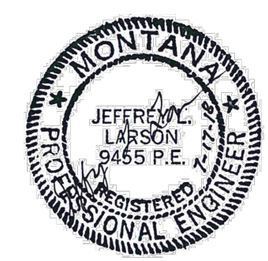
ROUND WOOD RAIL FENCE DETAIL

NO SCALE



SIGN POST

NO SCALE



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BOAT RAMP PLAN AND PROFILE

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