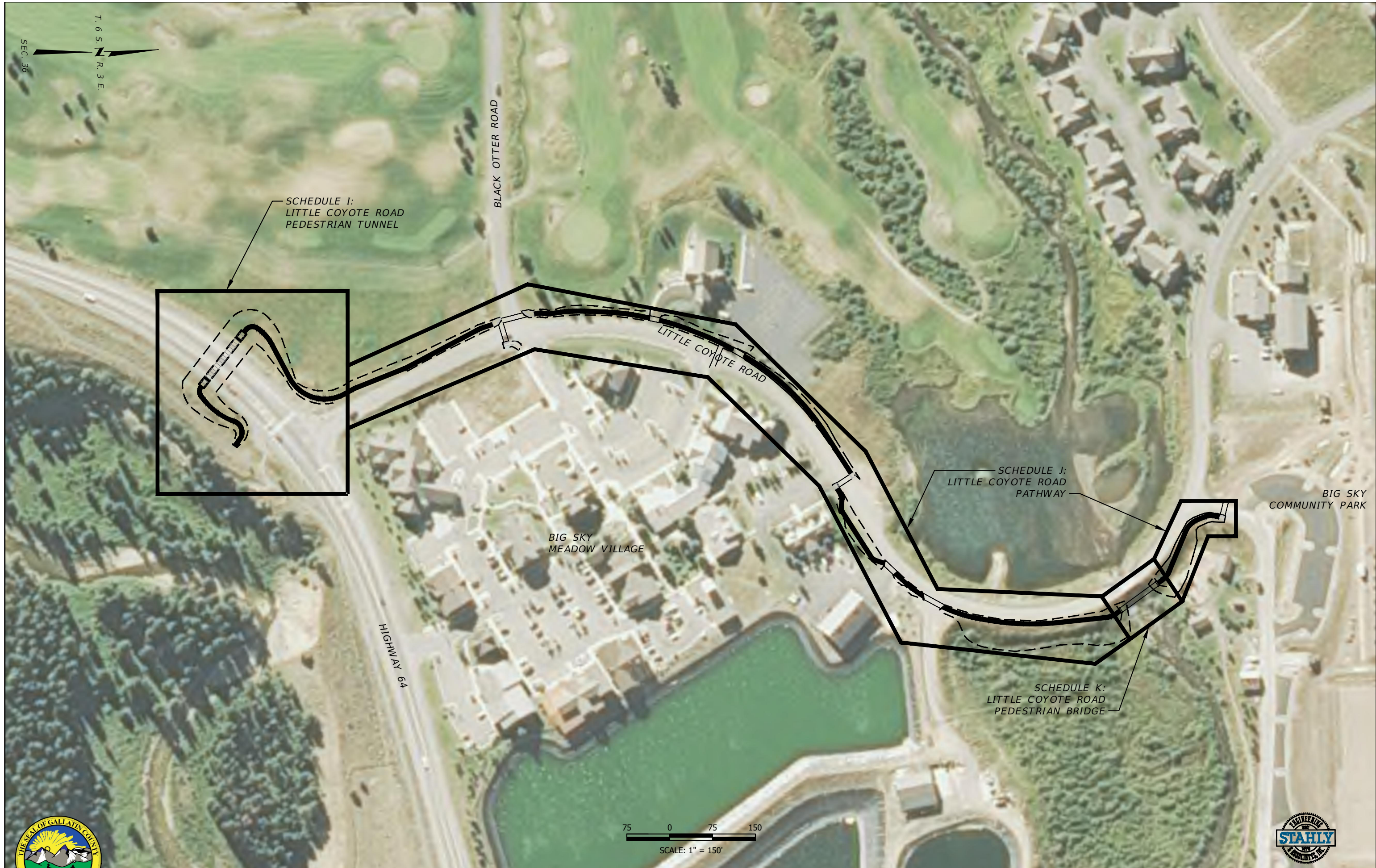


GALLATIN COUNTY
STATE OF MONTANA
2936-00119 Overall Trail
4/14/21
7:33 AM Nate Peressini

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OVERALL TRAIL PLAN
GALLATIN COUNTY, MADISON COUNTY

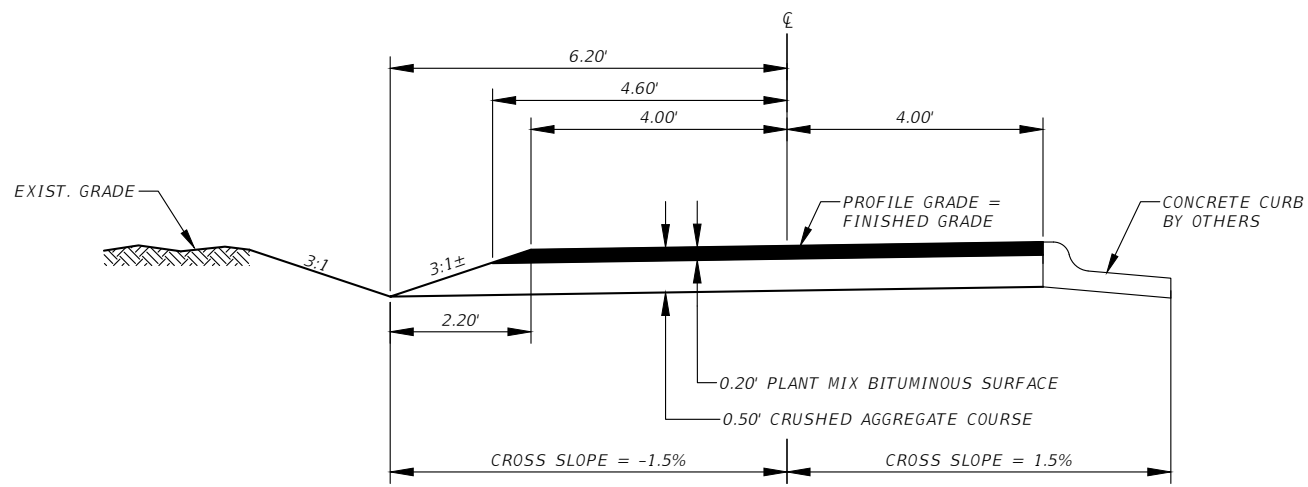
FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



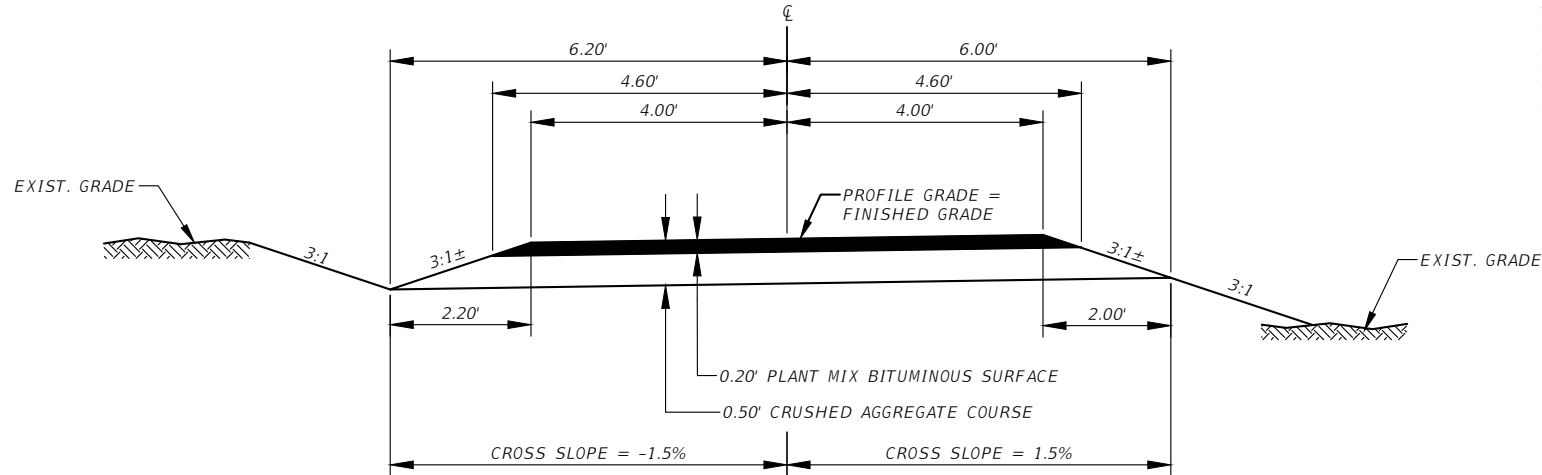
SHEET LC1

TYPICAL SECTION 2



5+09.13 TO 6+27.00

TYPICAL SECTION 3



6+27.00 TO 7+97.01
8+71.30 TO 10+74.22
10+94.65 TO 12+06.68
12+14.69 TO 12+30.91
12+58.42 TO 15+36.31
15+78.25 TO 15+98.76
17+70.24 TO 18+31.53

NOTE: WHEN DIRECTLY ADJACENT TO EXISTING ASPHALT WARP CATCH SLOPE TO CATCH AT EXISTING ROAD EDGE, SEE SECTIONS



GALLATIN COUNTY
STATE OF MONTANA

2936-00119 Trail Typical Sections
4/14/21

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TYPICAL TRAIL SECTIONS
GALLATIN COUNTY, MADISON COUNTY

SCHEDULE J: LITTLE COYOTE ROAD PATHWAY

FOR BIDDING

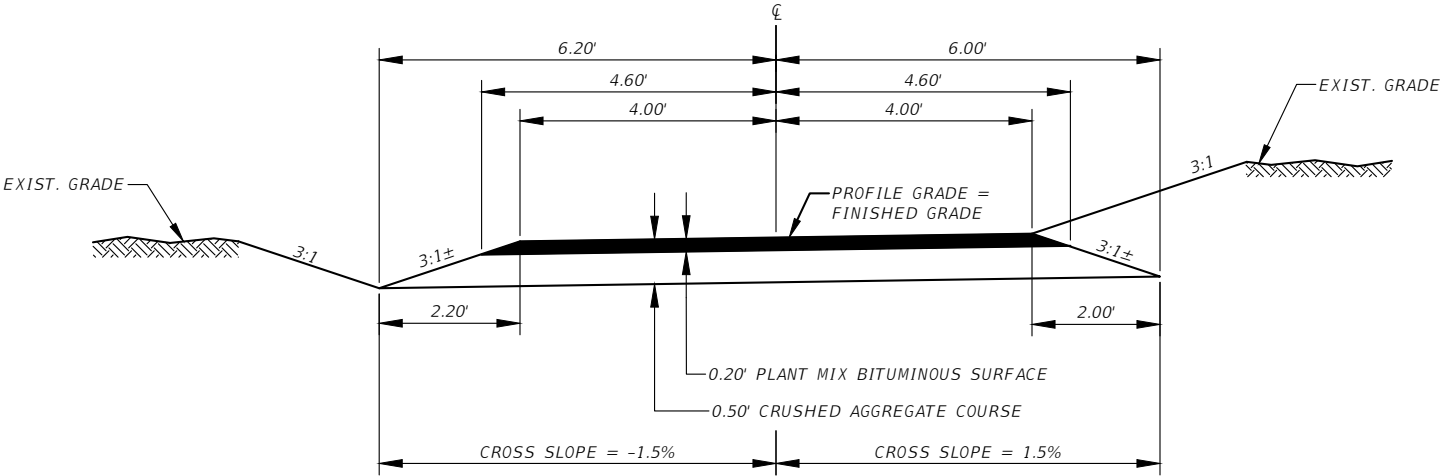
MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC2

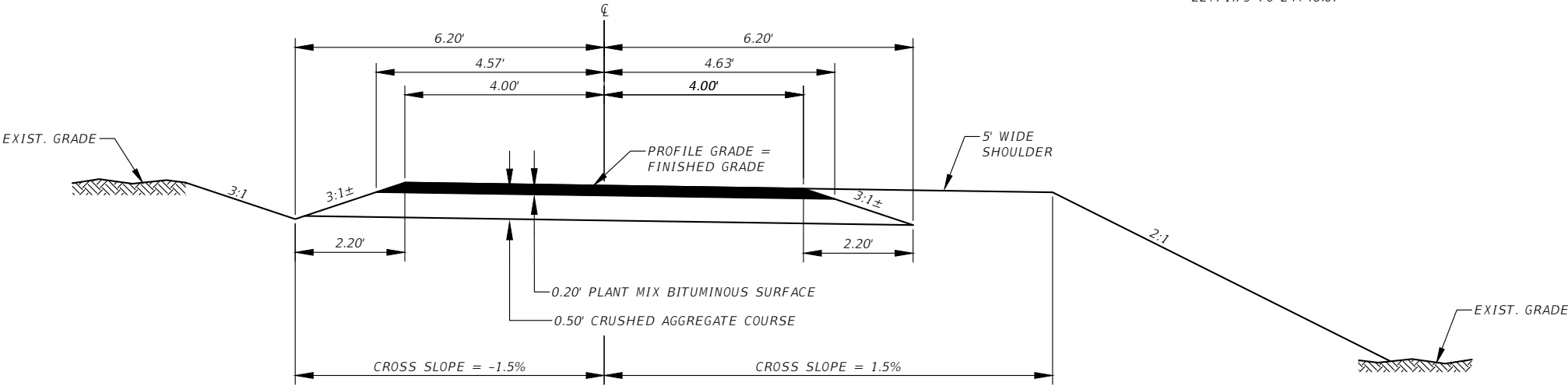
TYPICAL SECTION 4

15+98.76 TO 17+43.02



TYPICAL SECTION 5

18+72.40 TO 21+88.79
22+71.79 TO 24+46.07



GALLATIN COUNTY
STATE OF MONTANA

2936-00119 Trail Typical Sections
4/14/21

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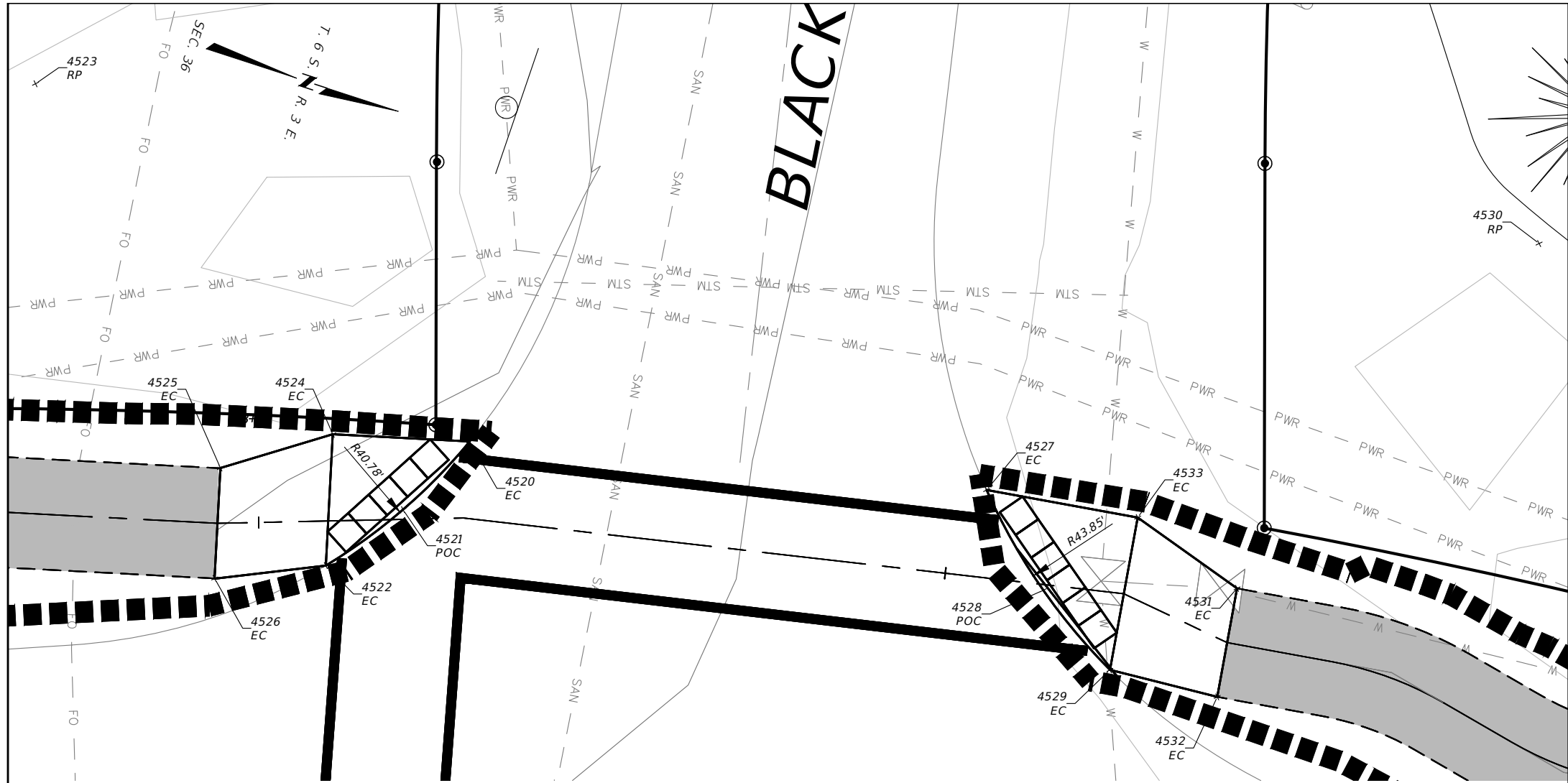
TYPICAL TRAIL SECTIONS
GALLATIN COUNTY, MADISON COUNTY

SCHEDULE J: LITTLE COYOTE ROAD PATHWAY
FOR BIDDING

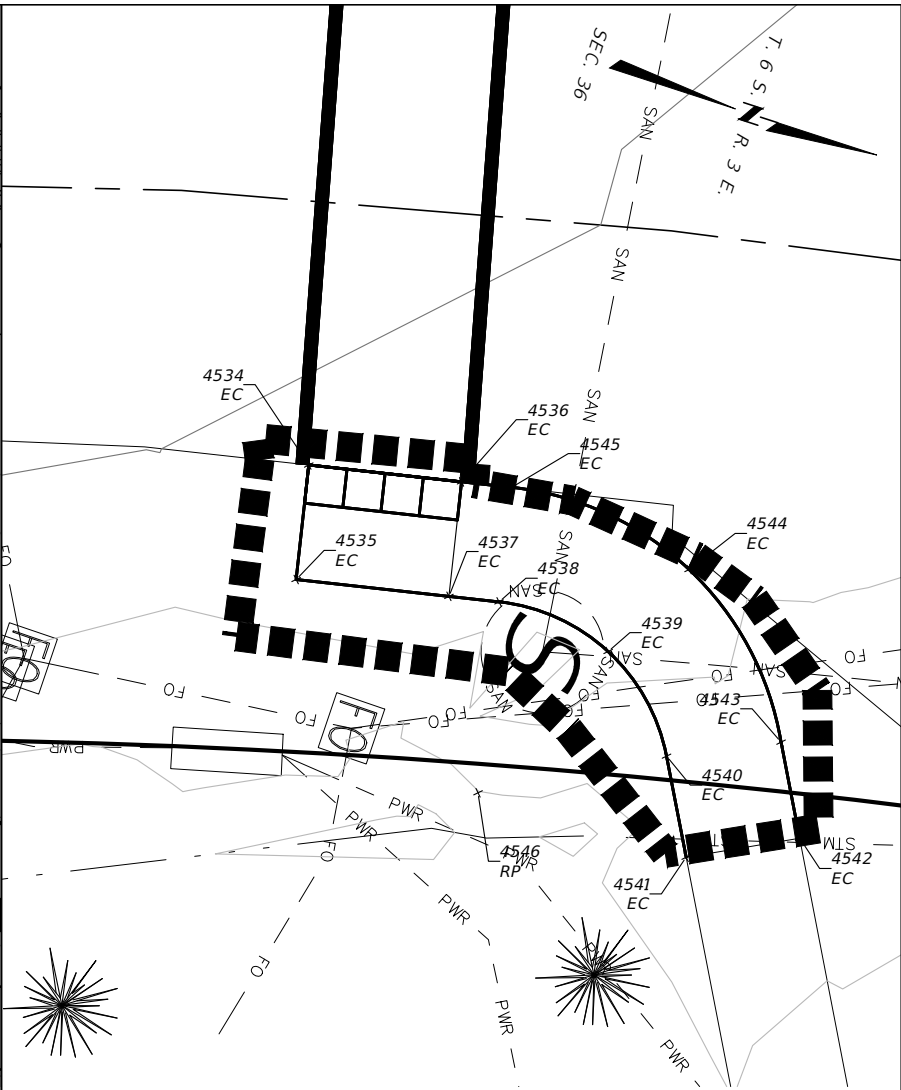
MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC3



BLACK OTTER ROAD CROSSING
1" = 10'



MEADOW SIDEWALK EXTENSION
1" = 10'

COORDINATE TABLE				
Point #	Northing (IFT)	Easting (IFT)	Elevation (USSF)	Description
4520	376117.58	1506877.65	6205.26	EC
4521	376114.60	1506883.89	6205.36	POC
4522	376110.61	1506889.53	6205.46	EC
4523	376079.43	1506863.25	6203.93	RP
4524	376108.02	1506880.35	6205.32	EC
4525	376101.10	1506885.30	6205.59	EC
4526	376103.29	1506893.01	6205.71	EC

LEGEND
EW = EDGE OF WALK
AC = POINT ON ASPHALT
EA = EDGE OF ASPHALT
RP = RADIUS POINT
POC = POINT ON CURVE

COORDINATE TABLE				
Point #	Northing (IFT)	Easting (IFT)	Elevation (USSF)	Description
4527	376154.18	1506868.90	6204.18	EC
4528	376160.41	1506874.45	6204.04	POC
4529	376166.85	1506878.36	6203.90	EC
4530	376186.32	1506839.06	6202.17	RP
4531	376173.66	1506869.79	6203.84	EC
4532	376174.84	1506877.70	6203.96	EC
4533	376165.19	1506867.25	6203.74	EC

COORDINATE TABLE				
Point #	Northing (IFT)	Easting (IFT)	Elevation (USSF)	Description
4534	376120.64	1506922.27	6204.82	EC
4535	376121.94	1506928.13	6204.82	EC
4536	376128.45	1506920.53	6204.70	EC
4537	376129.75	1506926.39	6204.70	EC
4538	376132.32	1506925.82	6204.60	EC
4539	376138.53	1506926.44	6204.20	EC
4540	376143.16	1506930.61	6203.59	EC
4541	376145.83	1506935.27	6203.51	EC
4542	376151.10	1506932.42	6203.35	EC
4543	376148.57	1506928.00	6203.43	EC
4544	376141.14	1506921.03	6204.20	EC
4545	376131.02	1506919.96	6204.60	EC
4546	376134.49	1506935.58	6202.97	RP



GALLATIN COUNTY
STATE OF MONTANA
2936-00119 Approach Details
4/14/21
1:37:54 PM Nate Peressini

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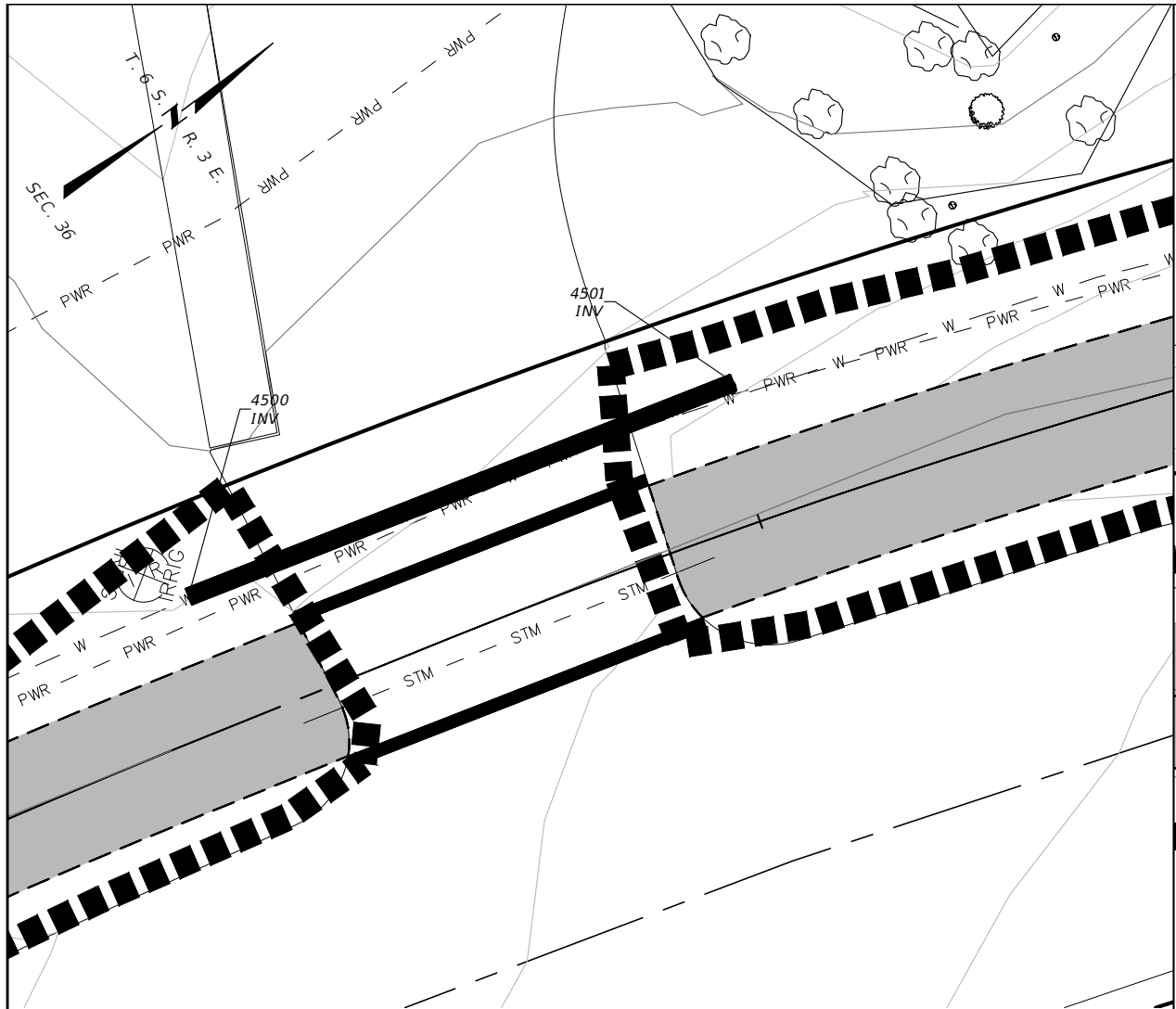
APPROACH DETAILS
GALLATIN COUNTY, MADISON COUNTY

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)

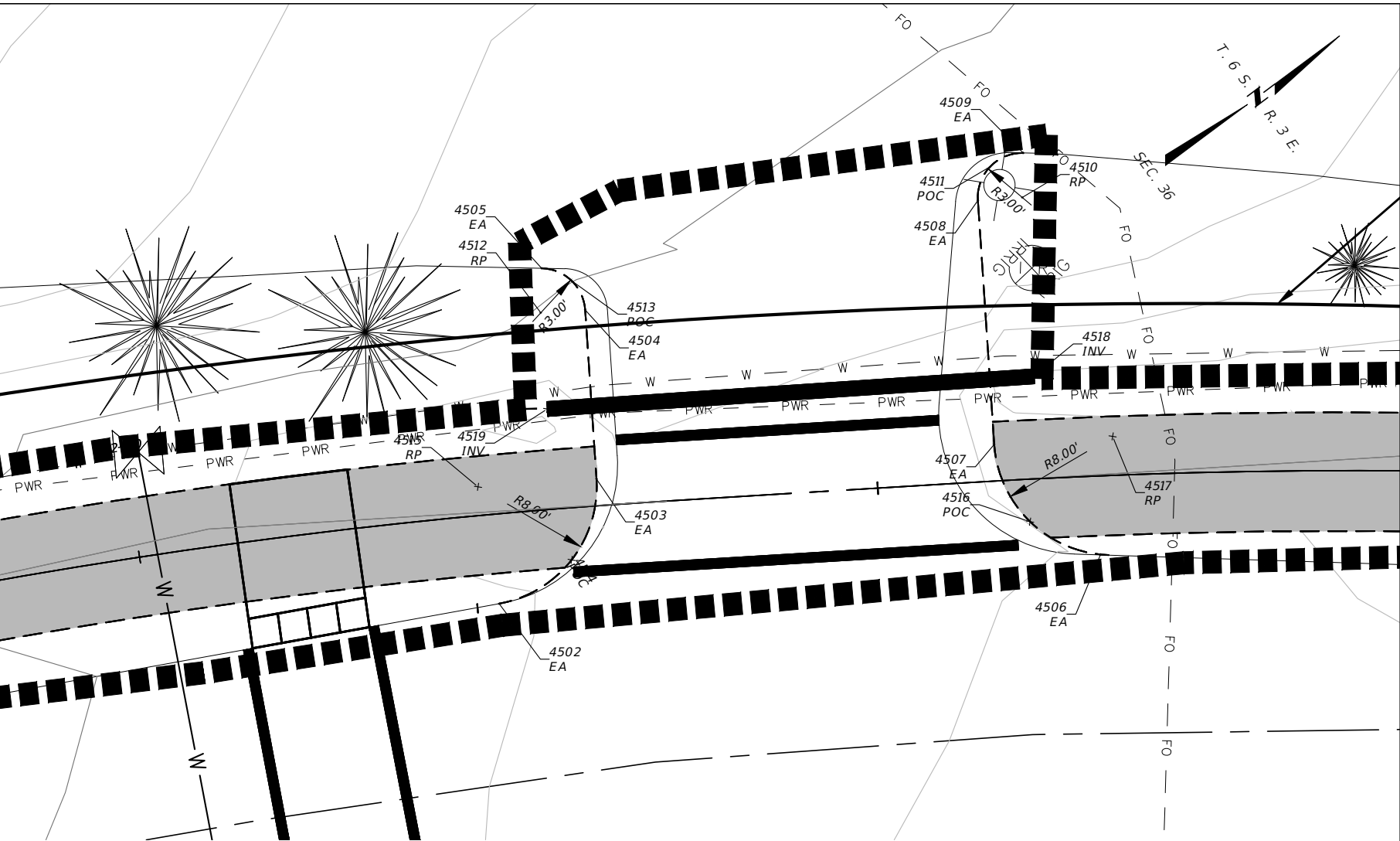


SHEET LC4



SOUTH CHAPEL APPROACH
1" = 10'

COORDINATE TABLE				
Point #	Northing (IFT)	Easting (IFT)	Elevation (USSF)	Description
4500	376371.79	1506878.75	6198.18	INV
4501	376403.66	1506886.96	6197.49	INV

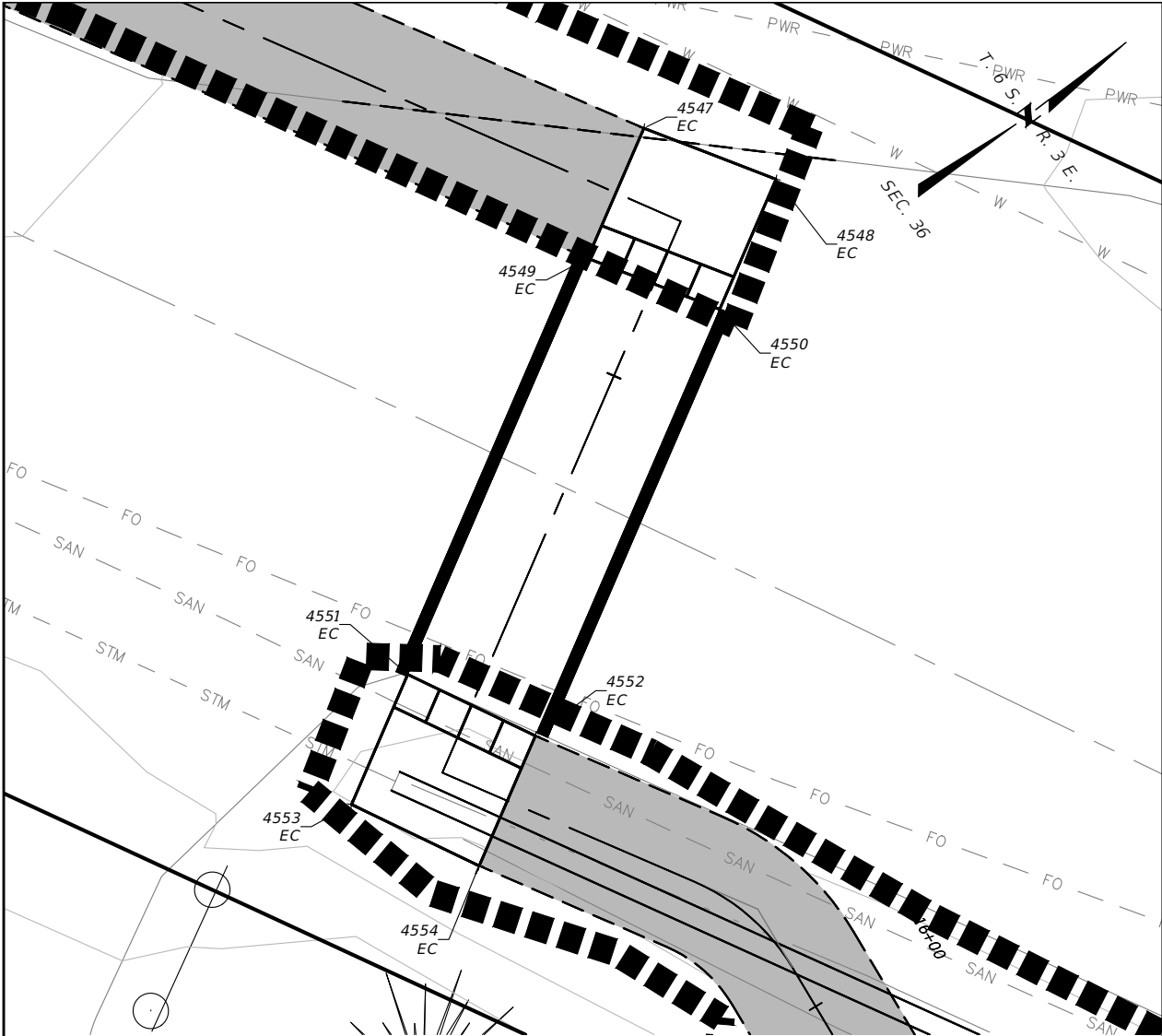


NORTH CHAPEL CROSSWALK AND APPROACH
1" = 10'

- LEGEND**
- EW = EDGE OF WALK
 - AC = POINT ON ASPHALT
 - EA = EDGE OF ASPHALT
 - RP = RADIUS POINT
 - POC = POINT ON CURVE

COORDINATE TABLE				
Point #	Northing (IFT)	Easting (IFT)	Elevation (USSF)	Description
4502	376510.47	1506948.86	6194.11	EA
4503	376520.71	1506945.89	6194.58	EA
4504	376526.77	1506936.22	6195.05	EA
4505	376526.04	1506932.23	6195.23	EA
4506	376545.25	1506969.94	6192.91	EA
4507	376543.80	1506959.73	6193.50	EA
4508	376552.54	1506945.77	6194.36	EA
4509	376556.89	1506944.97	6194.63	EA
4510	376555.08	1506947.36	6194.50	RP
4511	376554.54	1506944.41	6194.62	POC
4512	376524.23	1506934.62	6194.50	RP
4513	376527.18	1506934.08	6195.14	POC
4514	376516.16	1506949.33	6194.29	POC
4515	376513.93	1506941.65	6194.33	RP
4516	376542.70	1506965.36	6193.20	POC
4517	376550.58	1506963.97	6192.87	RP
4518	376548.67	1506957.60	6192.31	INV
4519	376520.78	1506940.13	6192.82	INV





BIG SKY WATER & SEWER CROSSING
1" = 10'

COORDINATE TABLE				
Point #	Northing (IFT)	Easting (IFT)	Elevation (USSF)	Description
4547	376722.97	1507170.28	6186.52	EC
4548	376727.32	1507177.00	6186.40	EC
4549	376716.08	1507174.37	6186.63	EC
4550	376720.44	1507181.08	6186.52	EC



CRAIL TRAIL CROSSING
1" = 10'

COORDINATE TABLE				
Point #	Northing (IFT)	Easting (IFT)	Elevation (USSF)	Description
4556	377367.62	1507277.17	6183.72	EC
4557	377369.91	1507269.51	6184.76	EC
4558	377362.25	1507267.21	6184.93	EC
4559	377359.95	1507274.87	6183.72	EC

- LEGEND**
- EW = EDGE OF WALK
 - AC = POINT ON ASPHALT
 - EA = EDGE OF ASPHALT
 - RP = RADIUS POINT
 - POC = POINT ON CURVE

COORDINATE TABLE				
Point #	Northing (IFT)	Easting (IFT)	Elevation (USSF)	Description
4551	376694.05	1507187.46	6186.27	EC
4552	376697.87	1507194.50	6186.24	EC
	376687.17	1507191.55	6186.39	EC
	376690.99	1507198.58	6186.36	EC



GALLATIN COUNTY
STATE OF MONTANA
2936-00119 Approach Details
4/14/21
1:42:22 PM Nate Peressini

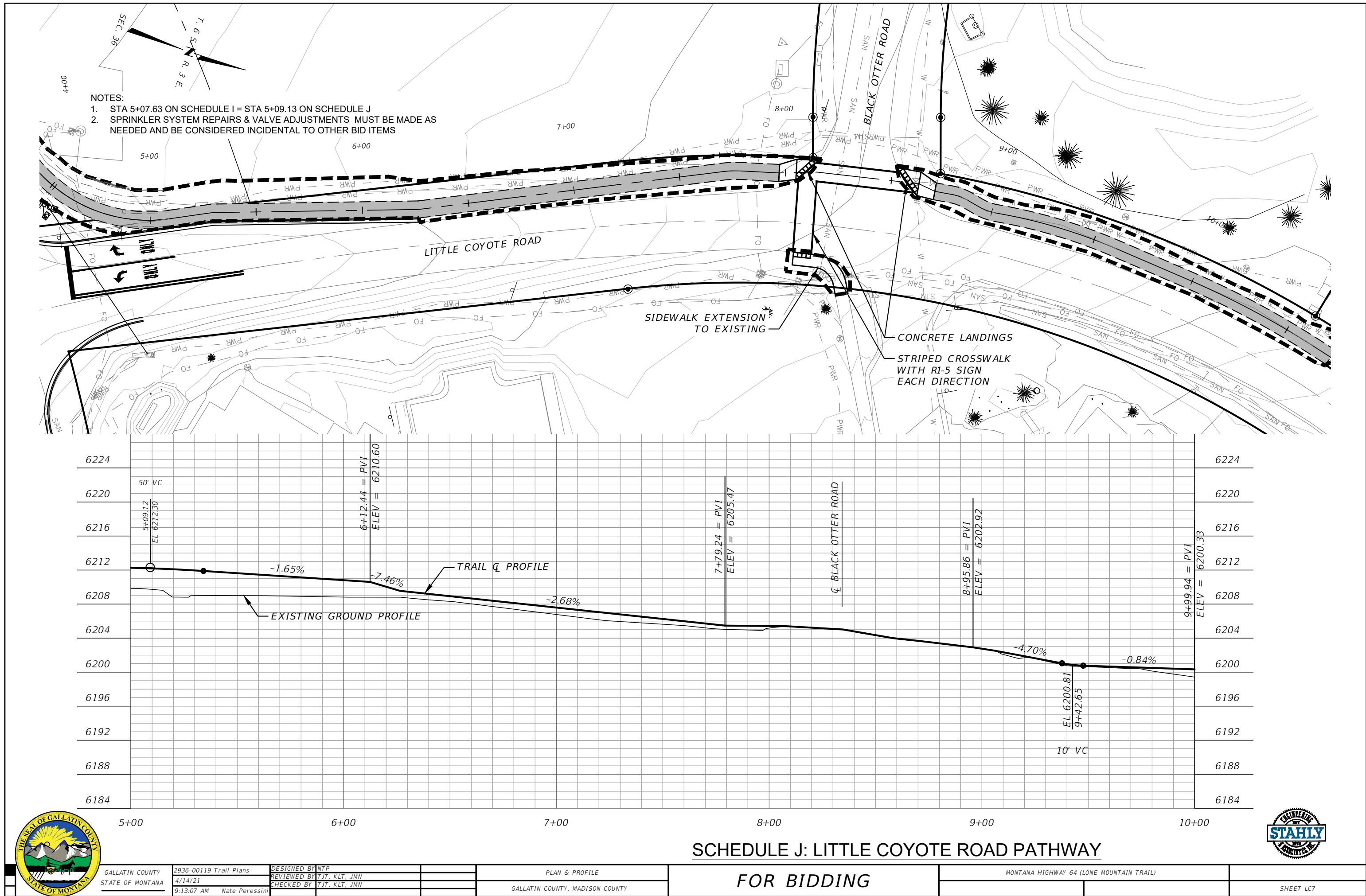
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APPROACH DETAILS
GALLATIN COUNTY, MADISON COUNTY

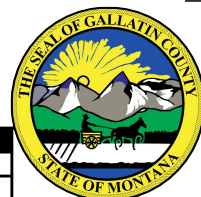
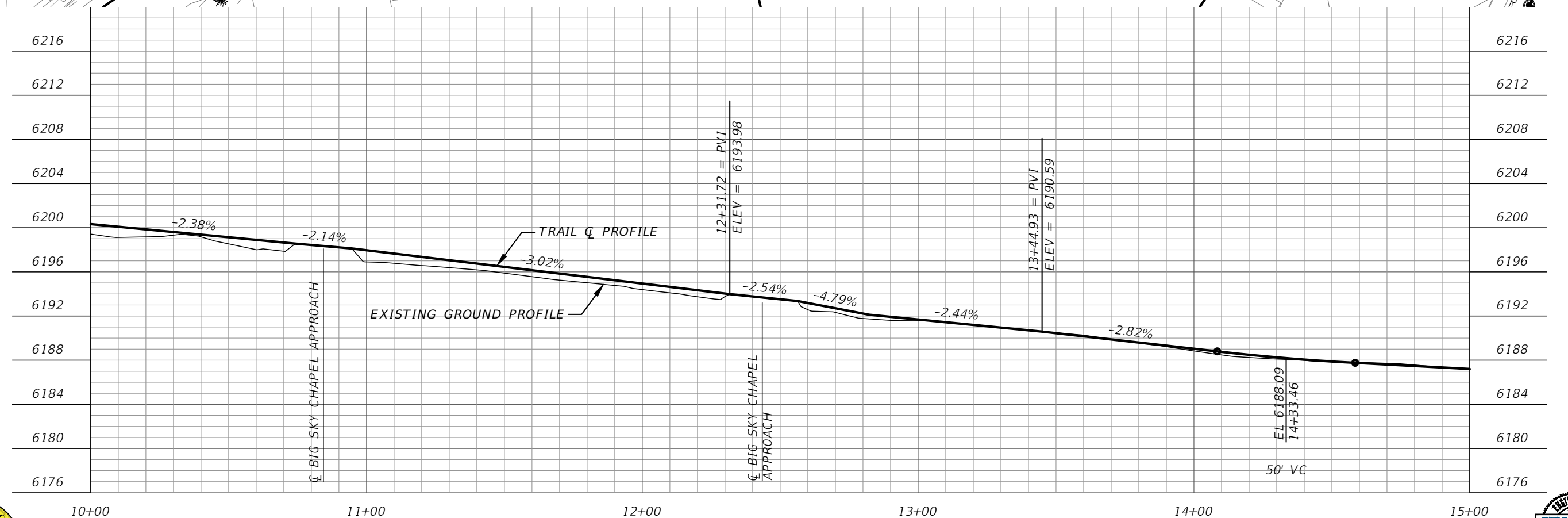
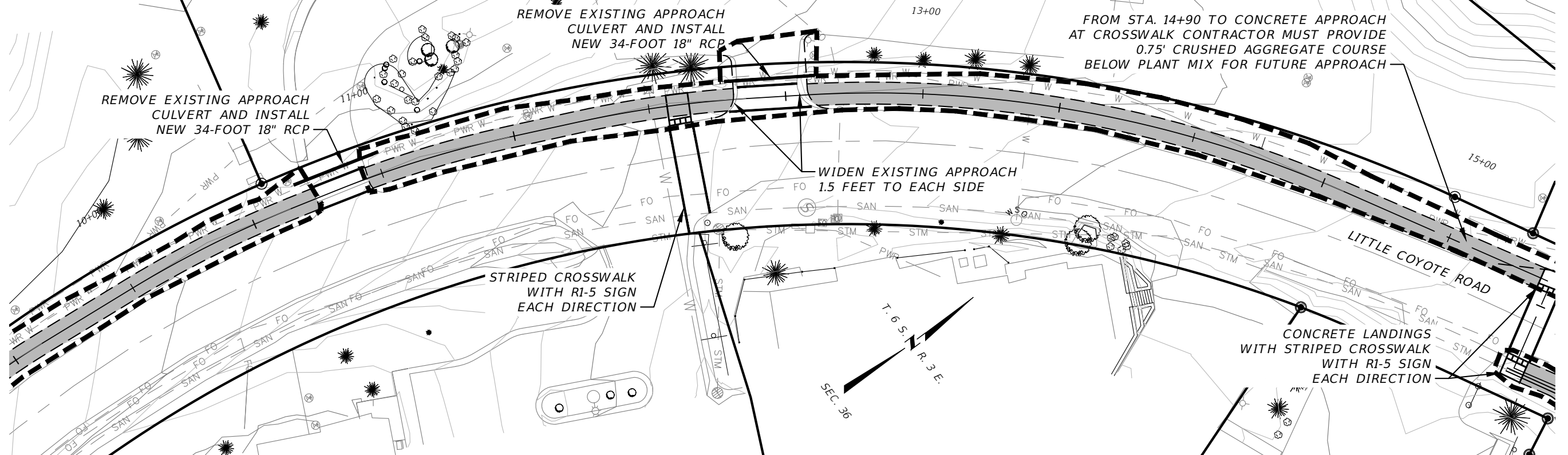
FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)





NOTE:
1. SPRINKLER SYSTEM REPAIRS & VALVE ADJUSTMENTS MUST BE MADE AS NEEDED AND BE CONSIDERED INCIDENTAL TO OTHER BID ITEMS



GALLATIN COUNTY
STATE OF MONTANA

2936-00119 Trail Plans
4/14/21
9:11:26 AM Nate Peressini

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PLAN & PROFILE

GALLATIN COUNTY, MADISON COUNTY

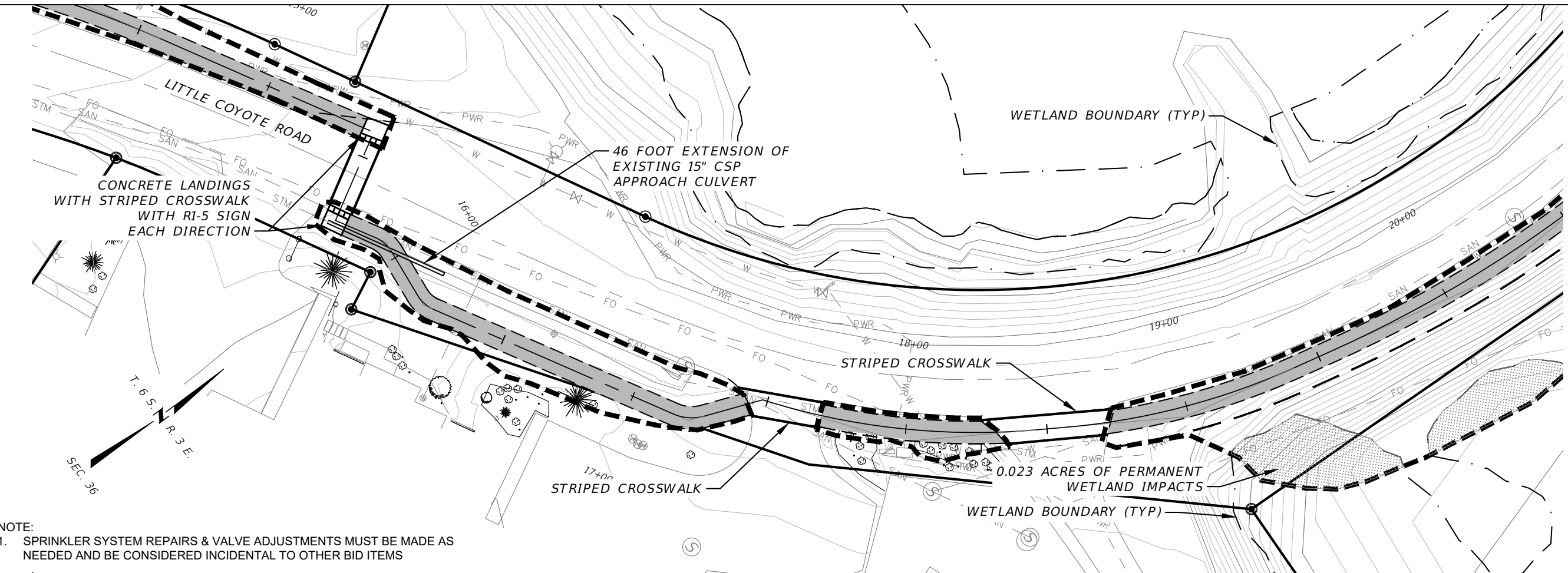
SCHEDULE J: LITTLE COYOTE ROAD PATHWAY

FOR BIDDING

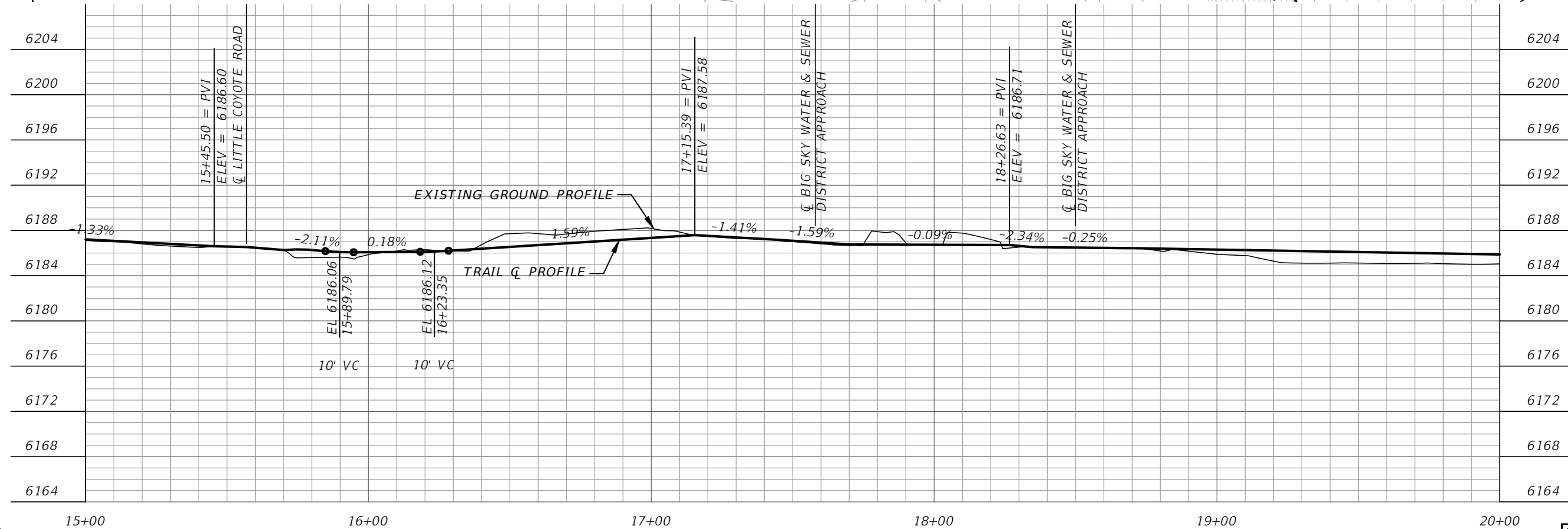
MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC8



NOTE:
1. SPRINKLER SYSTEM REPAIRS & VALVE ADJUSTMENTS MUST BE MADE AS NEEDED AND BE CONSIDERED INCIDENTAL TO OTHER BID ITEMS



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STATE OF MONTANA
2936-00119 Trail Plans
4/14/21
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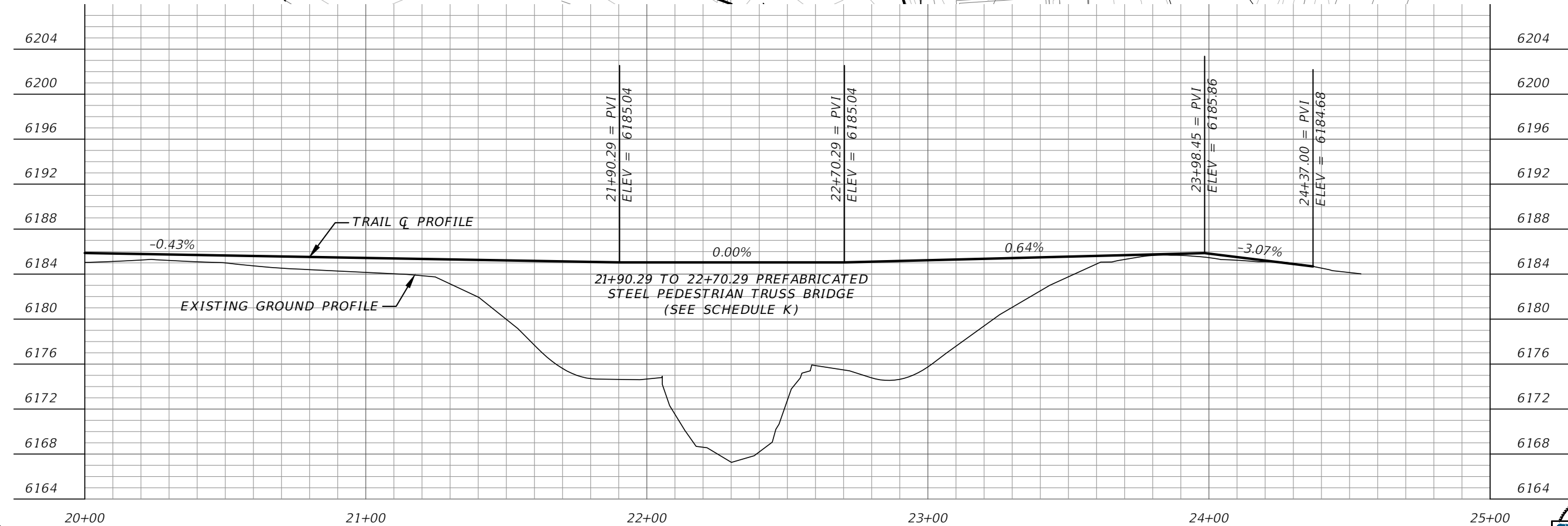
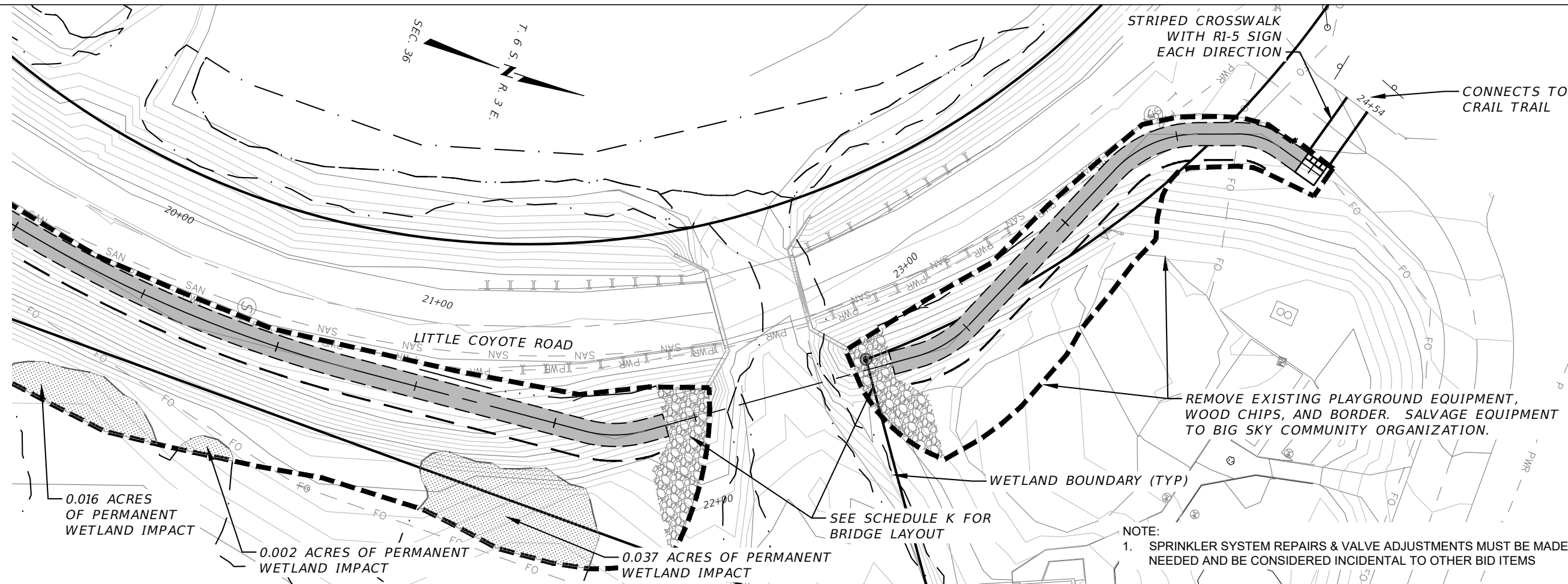
PLAN & PROFILE
GALLATIN COUNTY, MADISON COUNTY

SCHEDULE J: LITTLE COYOTE ROAD PATHWAY
FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC9



GALLATIN COUNTY
STATE OF MONTANA

2936-00119 Trail Plans
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9:01:27 AM Nate Peressini

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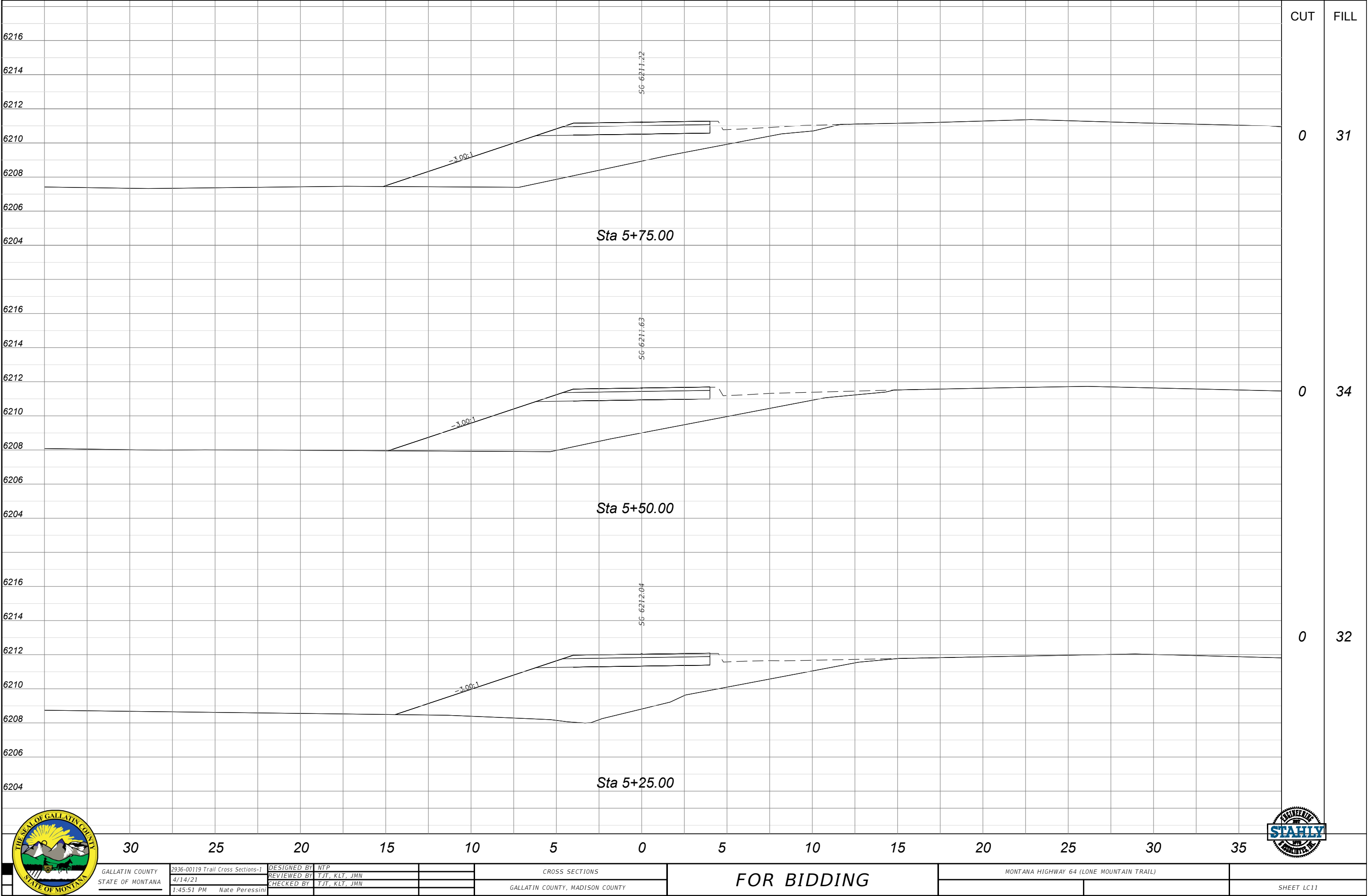
PLAN & PROFILE
GALLATIN COUNTY, MADISON COUNTY

SCHEDULE J: LITTLE COYOTE ROAD PATHWAY
FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC10



GALLATIN COUNTY
STATE OF MONTANA
2936-00119 Trail Cross Sections-1
4/14/21
1:45:51 PM Nate Peressini

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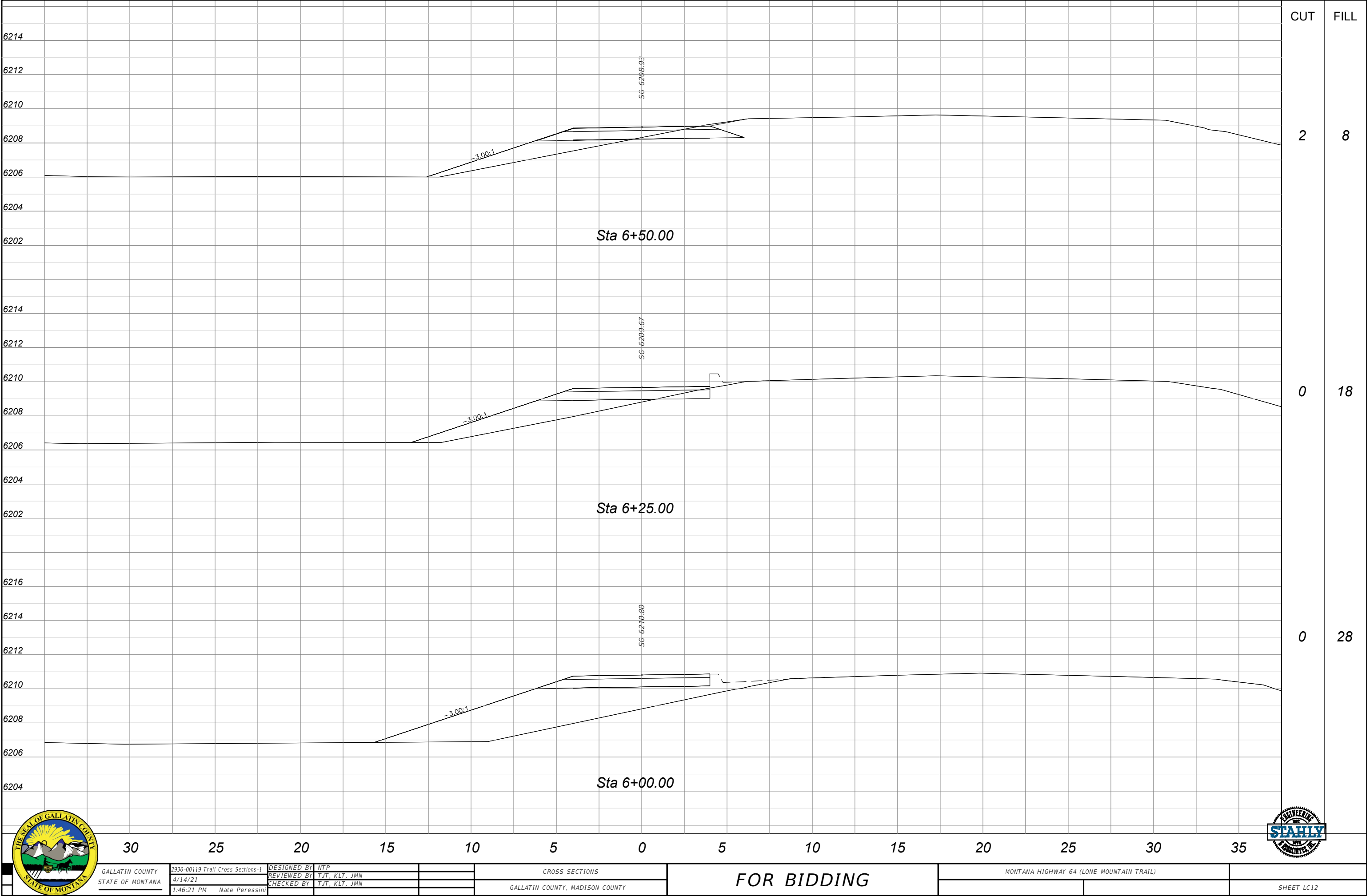
CROSS SECTIONS
GALLATIN COUNTY, MADISON COUNTY

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC11



GALLATIN COUNTY
STATE OF MONTANA
2936-00119 Trail Cross Sections-1
4/14/21
1:46:21 PM Nate Peressini

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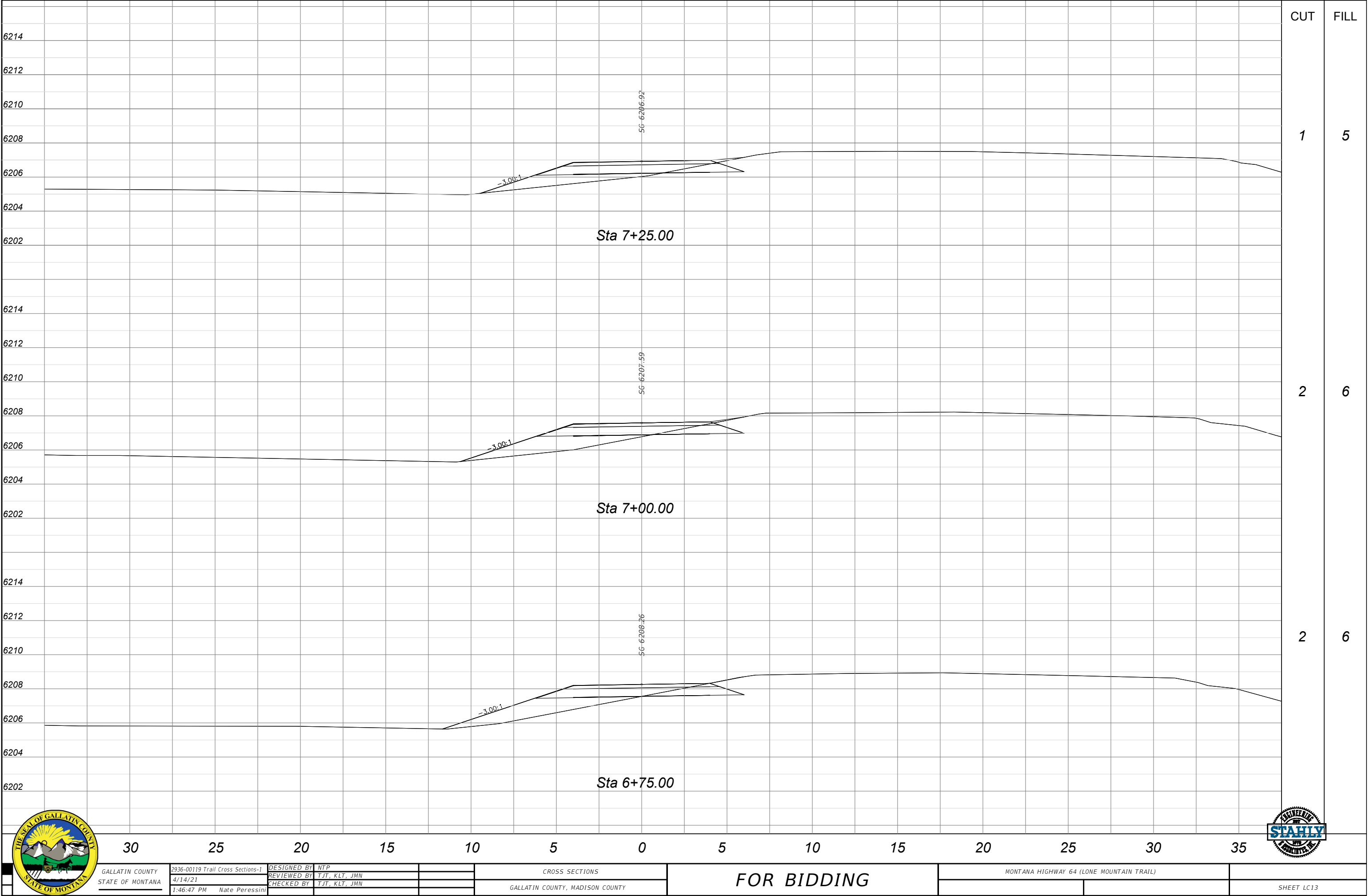
CROSS SECTIONS
GALLATIN COUNTY, MADISON COUNTY

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC12



GALLATIN COUNTY
STATE OF MONTANA

2936-00119 Trail Cross Sections-1
4/14/21
1:46:47 PM Nate Peressini

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CROSS SECTIONS

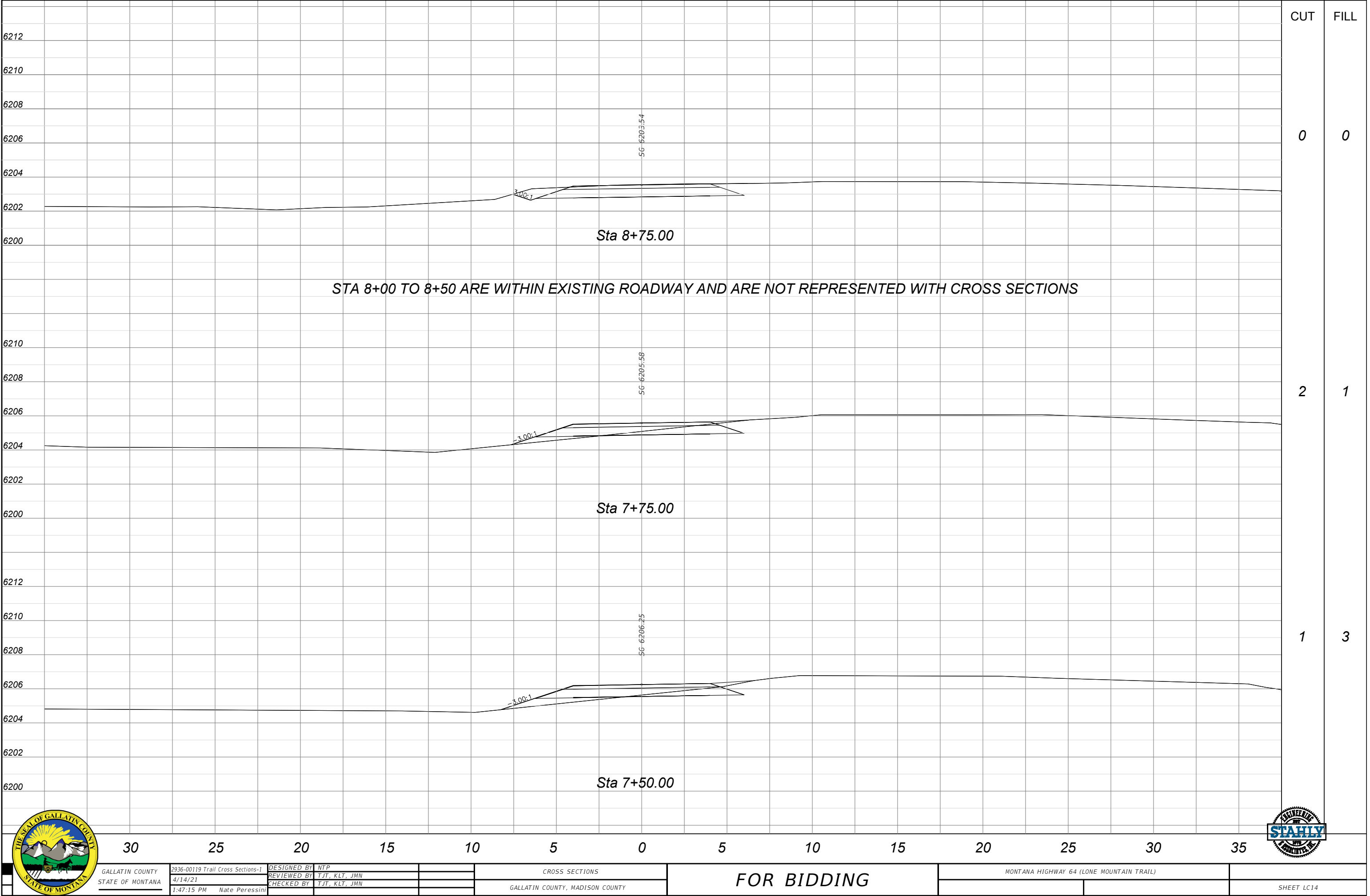
GALLATIN COUNTY, MADISON COUNTY

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC13



GALLATIN COUNTY
STATE OF MONTANA

2936-00119 Trail Cross Sections-1
4/14/21
1:47:15 PM Nate Peressini

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CROSS SECTIONS

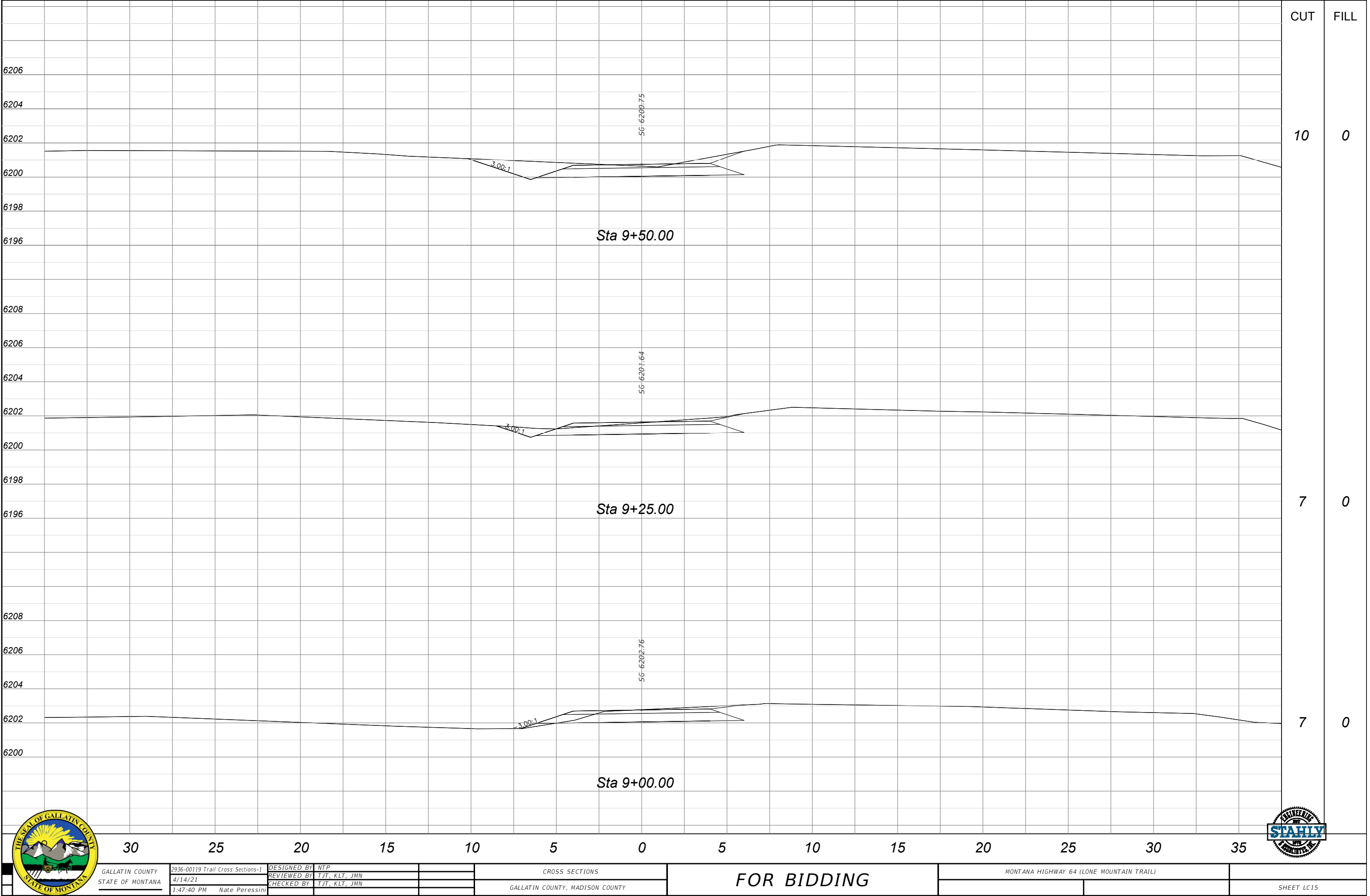
GALLATIN COUNTY, MADISON COUNTY

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC14



GALLATIN COUNTY
STATE OF MONTANA

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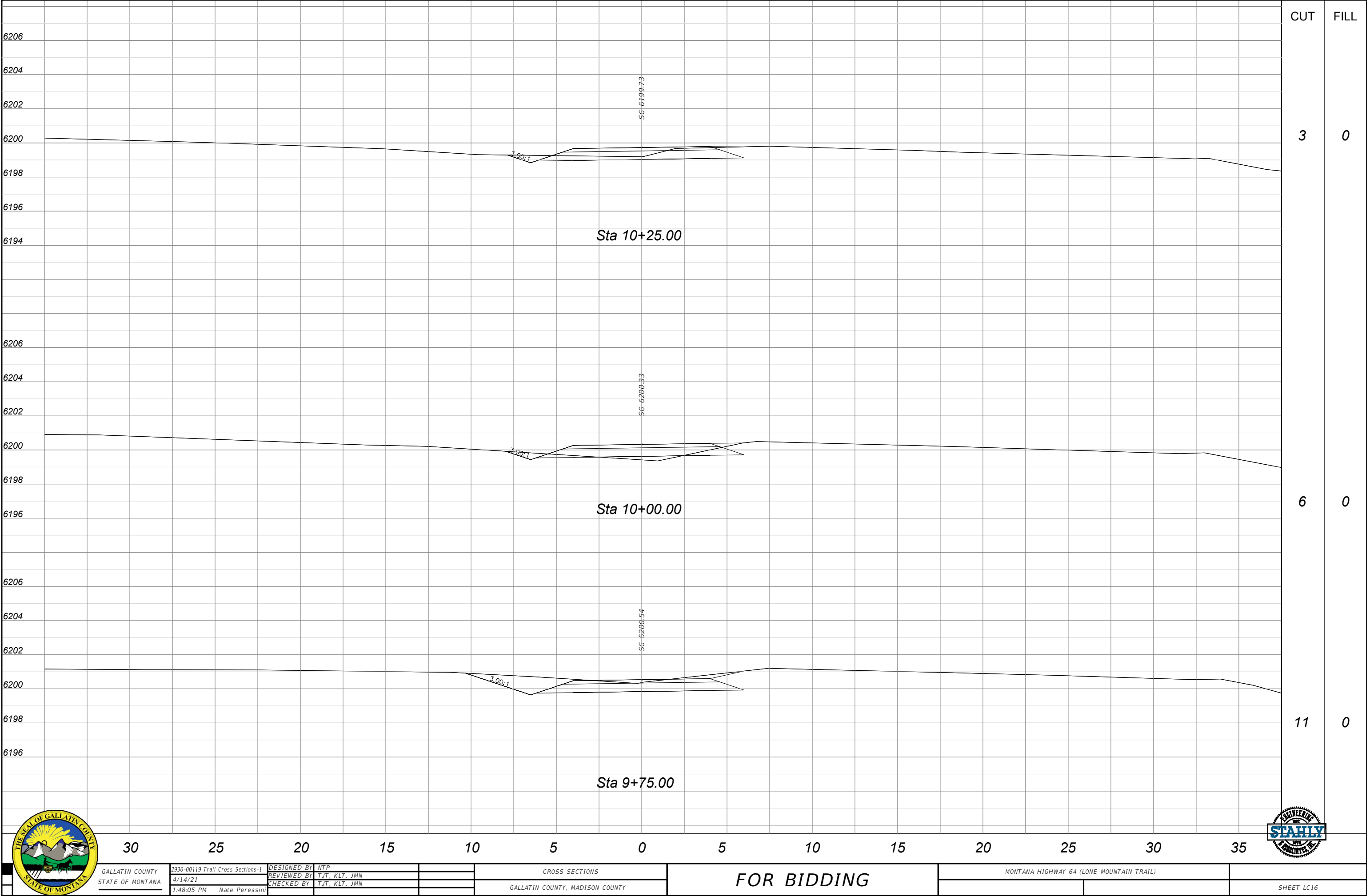
CROSS SECTIONS
GALLATIN COUNTY, MADISON COUNTY

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC15



GALLATIN COUNTY
STATE OF MONTANA

2936-00119 Trail Cross Sections-1
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1:48:05 PM Nate Peressini

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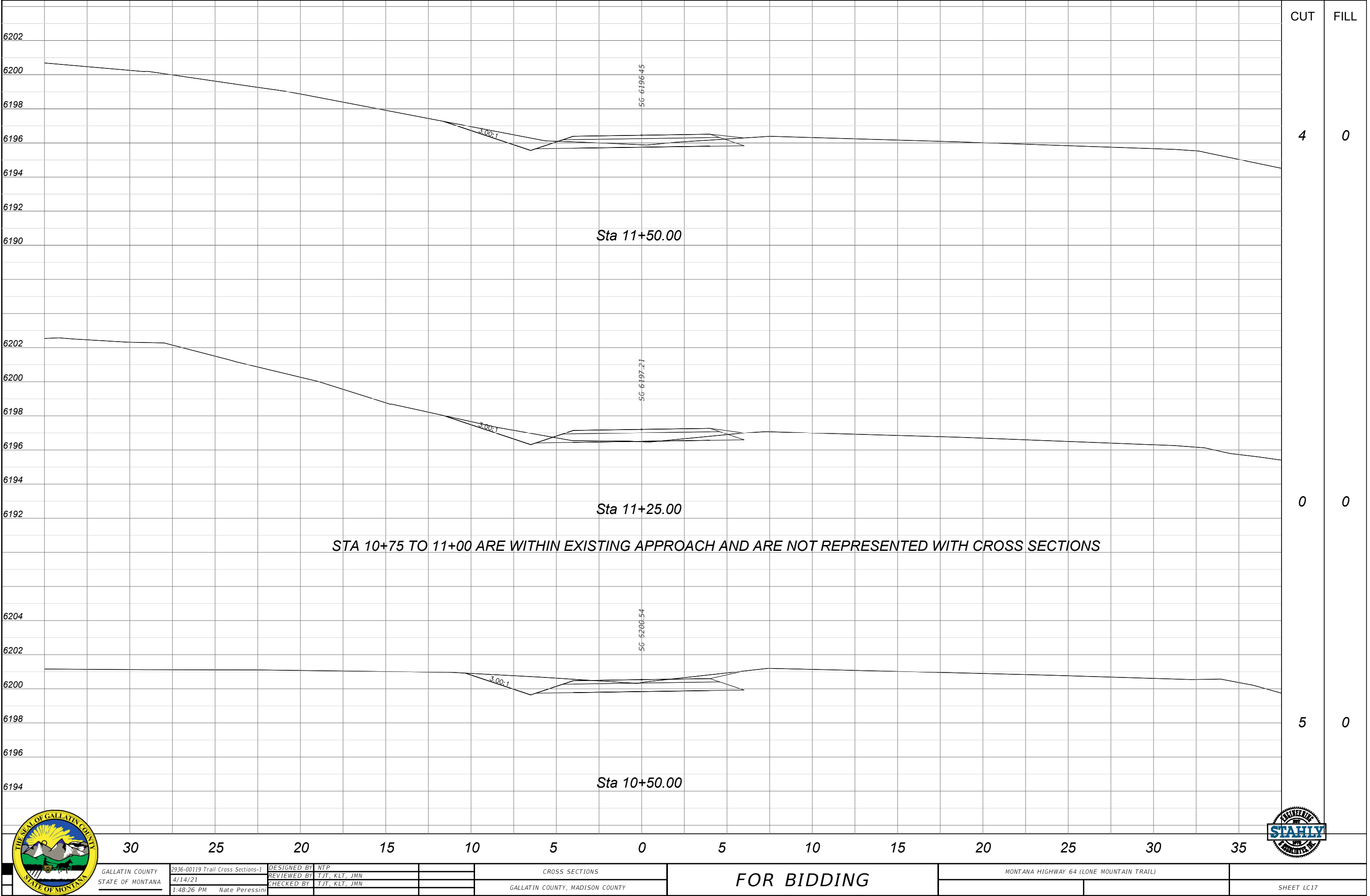
CROSS SECTIONS
GALLATIN COUNTY, MADISON COUNTY

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC16



GALLATIN COUNTY
STATE OF MONTANA

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1:48:26 PM Nate Peressini

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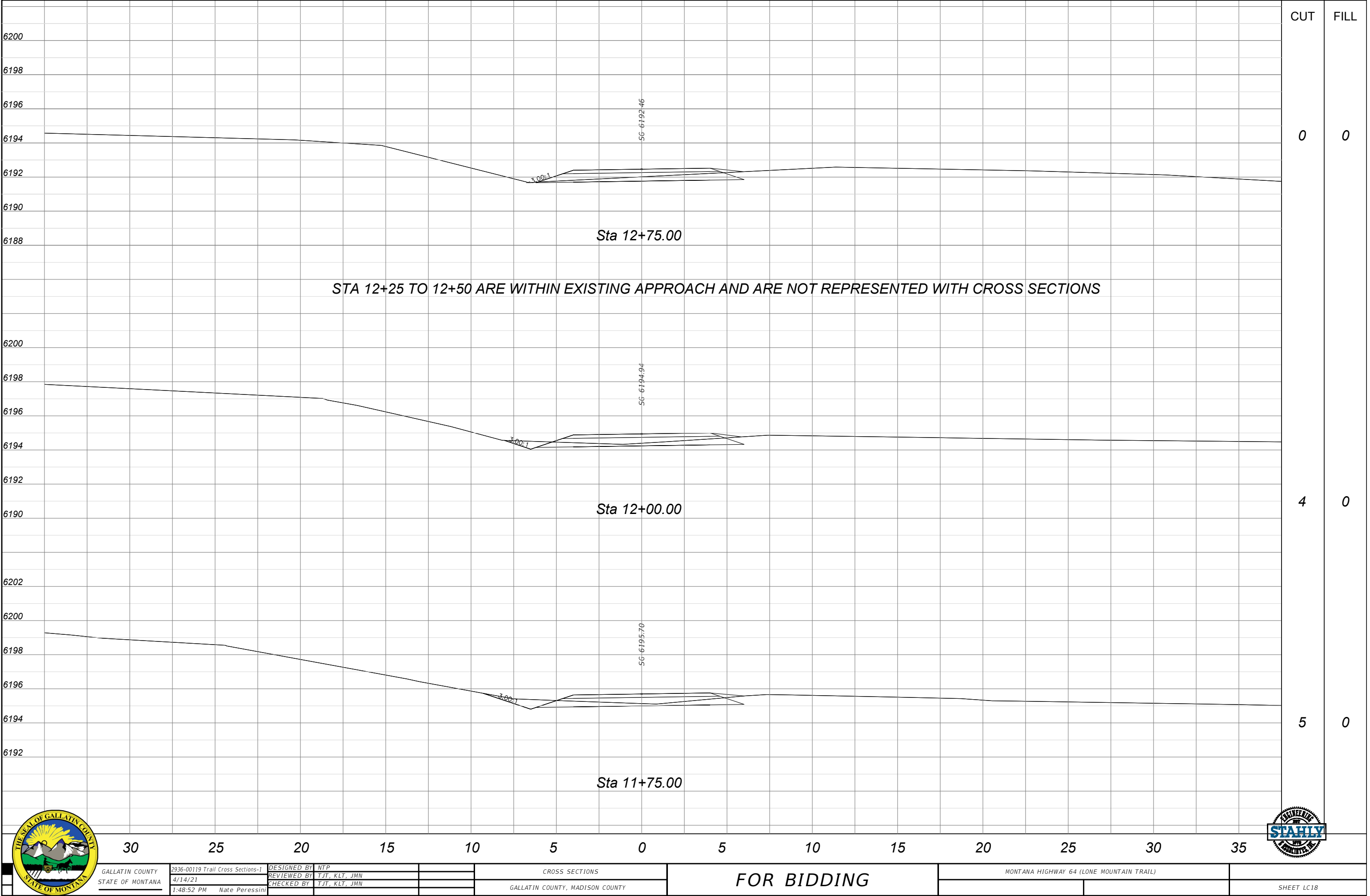
CROSS SECTIONS
GALLATIN COUNTY, MADISON COUNTY

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC17



GALLATIN COUNTY
STATE OF MONTANA

2936-00119 Trail Cross Sections-1
4/14/21
1:48:52 PM Nate Peressini

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CROSS SECTIONS

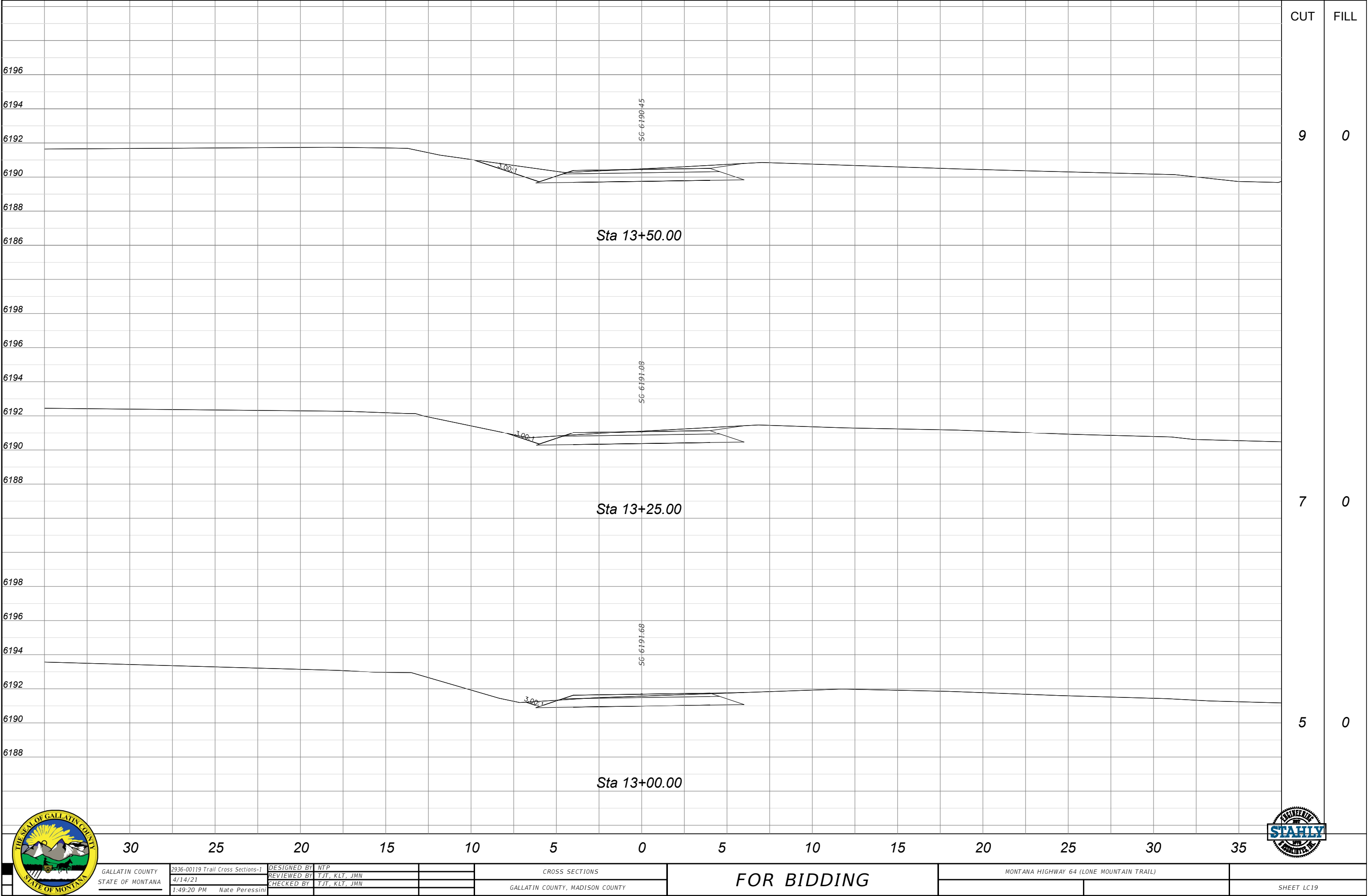
GALLATIN COUNTY, MADISON COUNTY

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MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC18



GALLATIN COUNTY
STATE OF MONTANA
2936-00119 Trail Cross Sections-1
4/14/21
1:49:20 PM Nate Peressini

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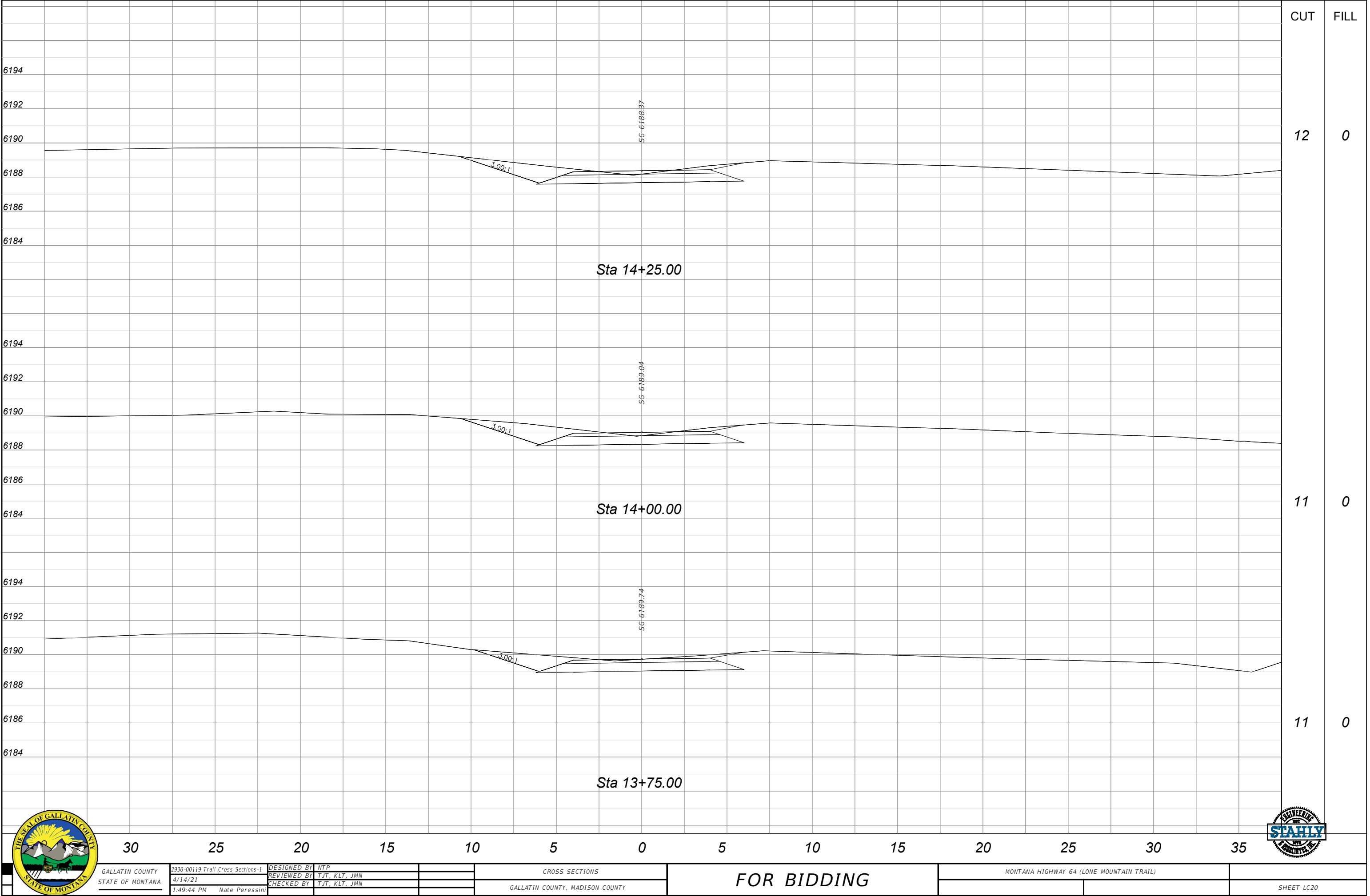
CROSS SECTIONS
GALLATIN COUNTY, MADISON COUNTY

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC19



GALLATIN COUNTY
STATE OF MONTANA

2936-00119 Trail Cross Sections-1
4/14/21
1:49:44 PM Nate Peressini

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CROSS SECTIONS

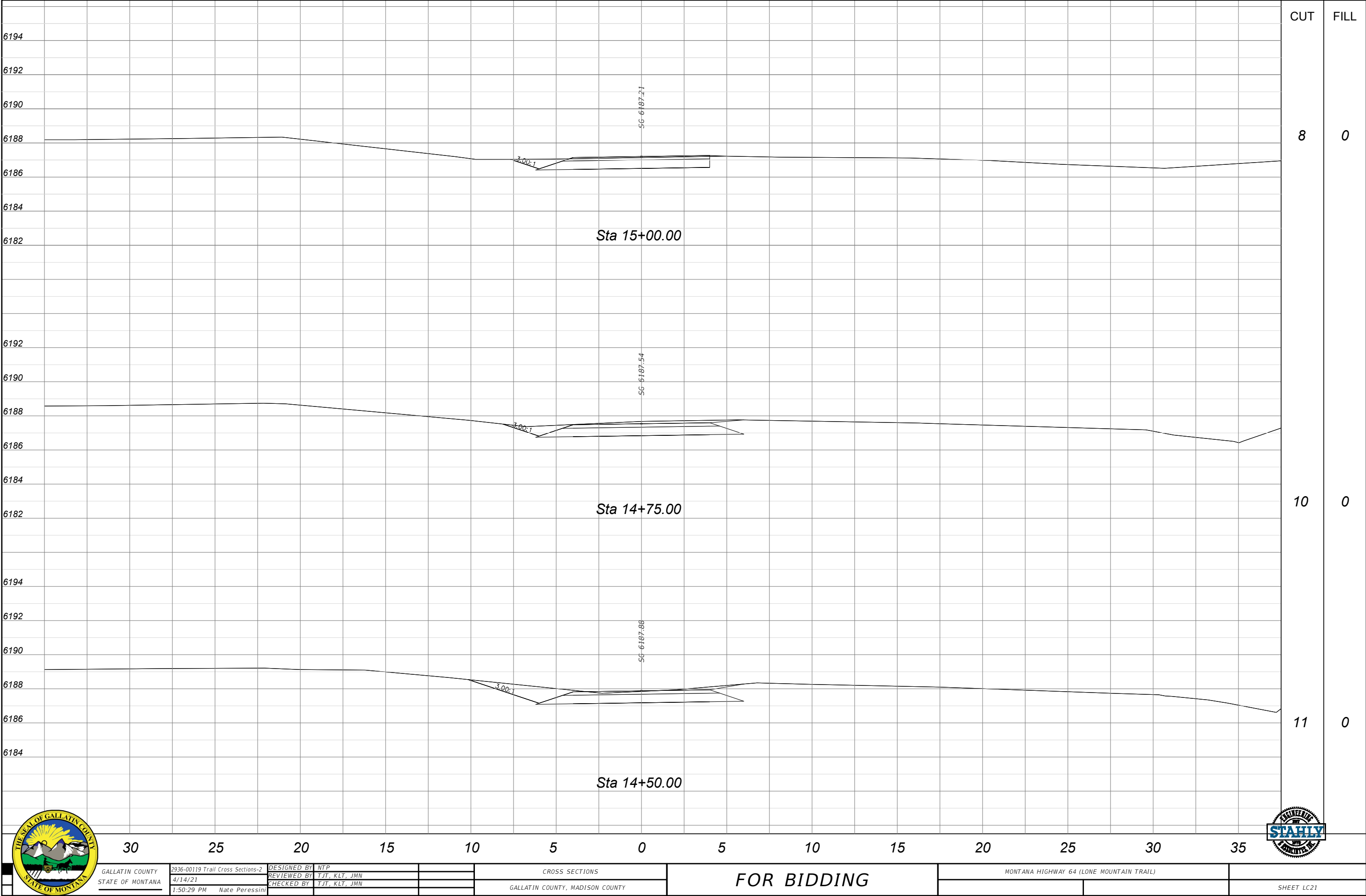
GALLATIN COUNTY, MADISON COUNTY

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC20



GALLATIN COUNTY
STATE OF MONTANA
2936-00119 Trail Cross Sections-2
4/14/21
1:50:29 PM Nate Peressini

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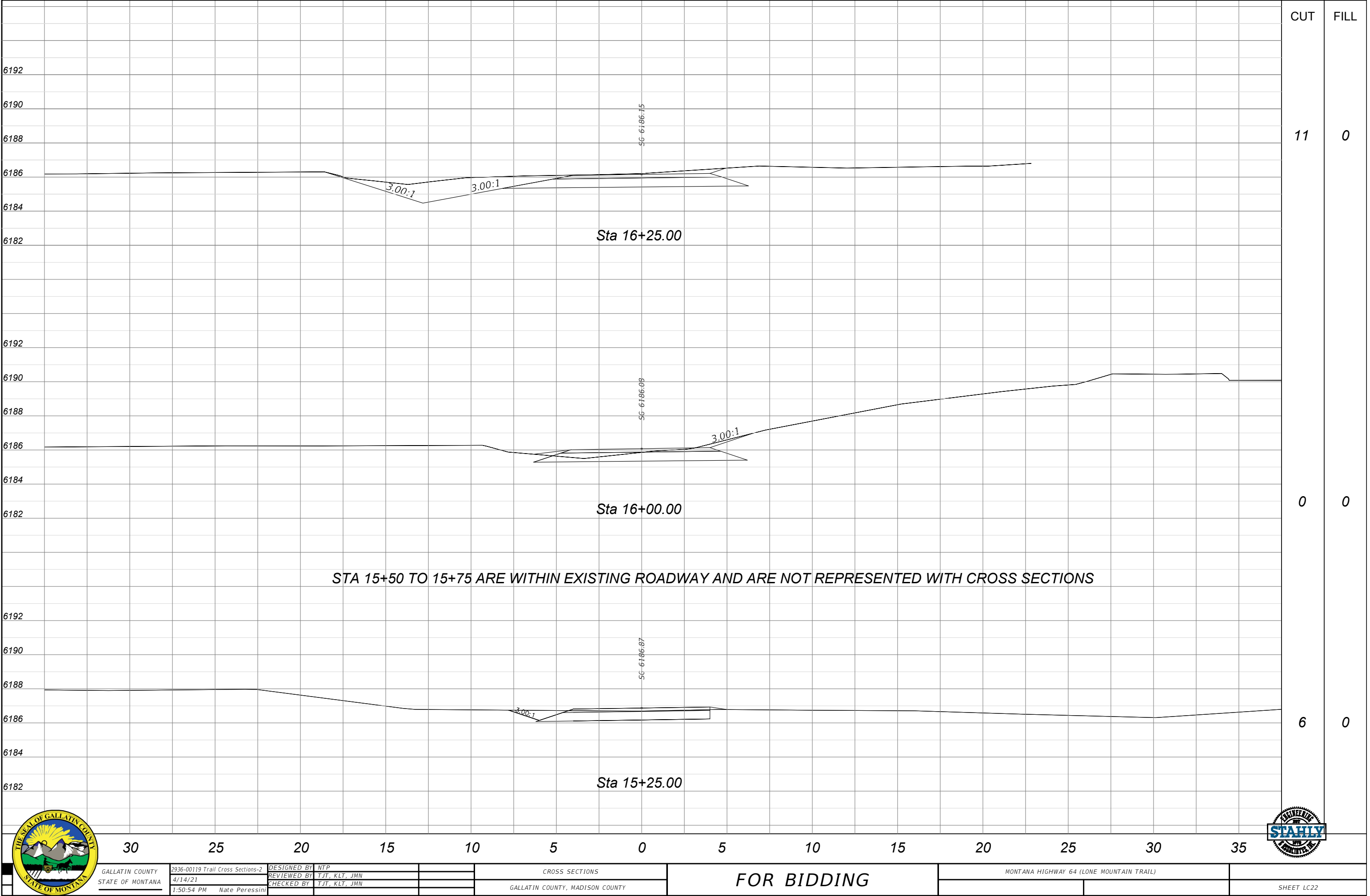
CROSS SECTIONS
GALLATIN COUNTY, MADISON COUNTY

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC21



GALLATIN COUNTY
STATE OF MONTANA

2936-00119 Trail Cross Sections-2
4/14/21
1:50:54 PM Nate Peressini

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CROSS SECTIONS

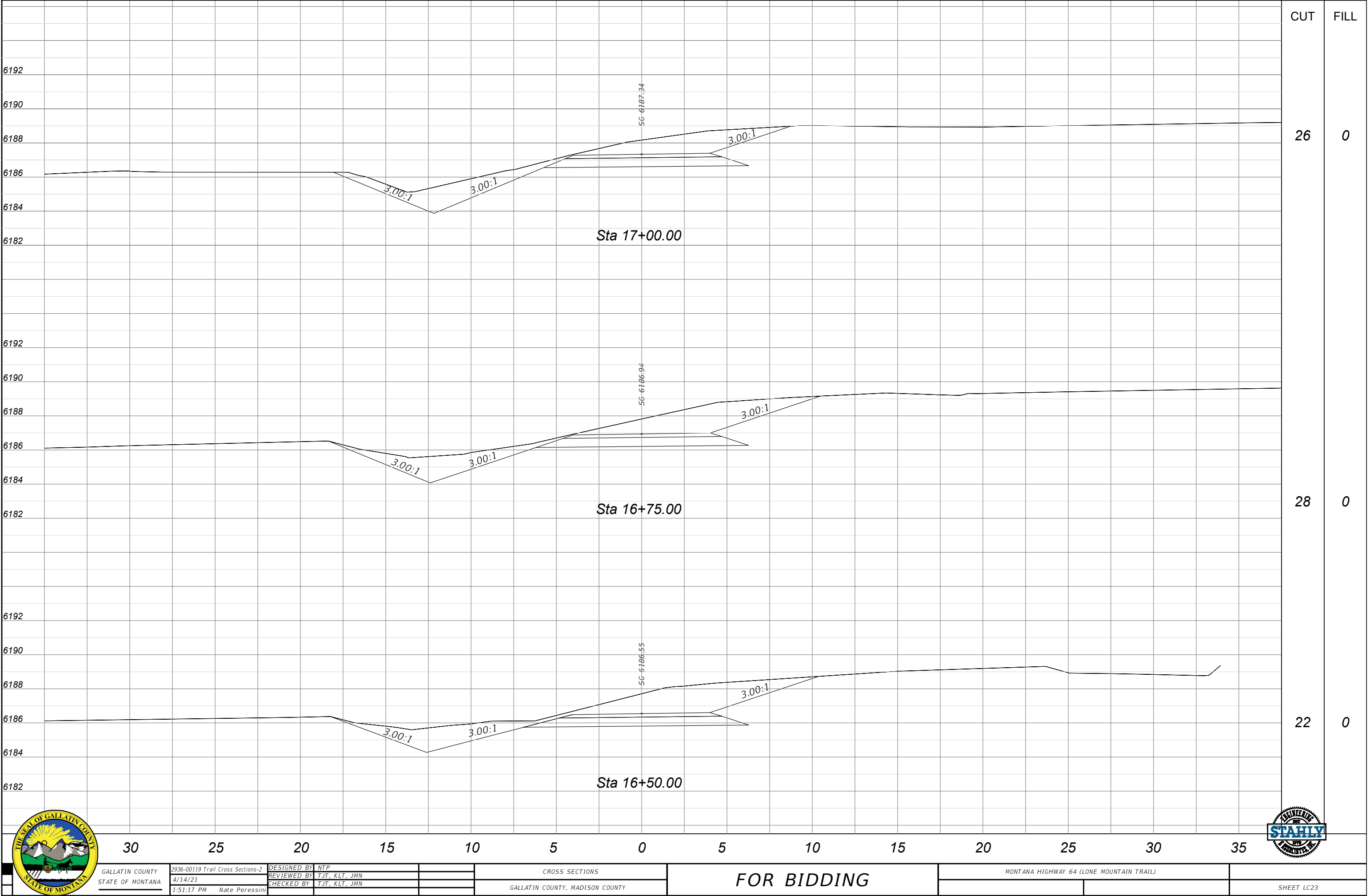
GALLATIN COUNTY, MADISON COUNTY

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC22



GALLATIN COUNTY
STATE OF MONTANA

2936-00119 Trail Cross Sections-2
4/14/21
1:51:17 PM Nate Peressini

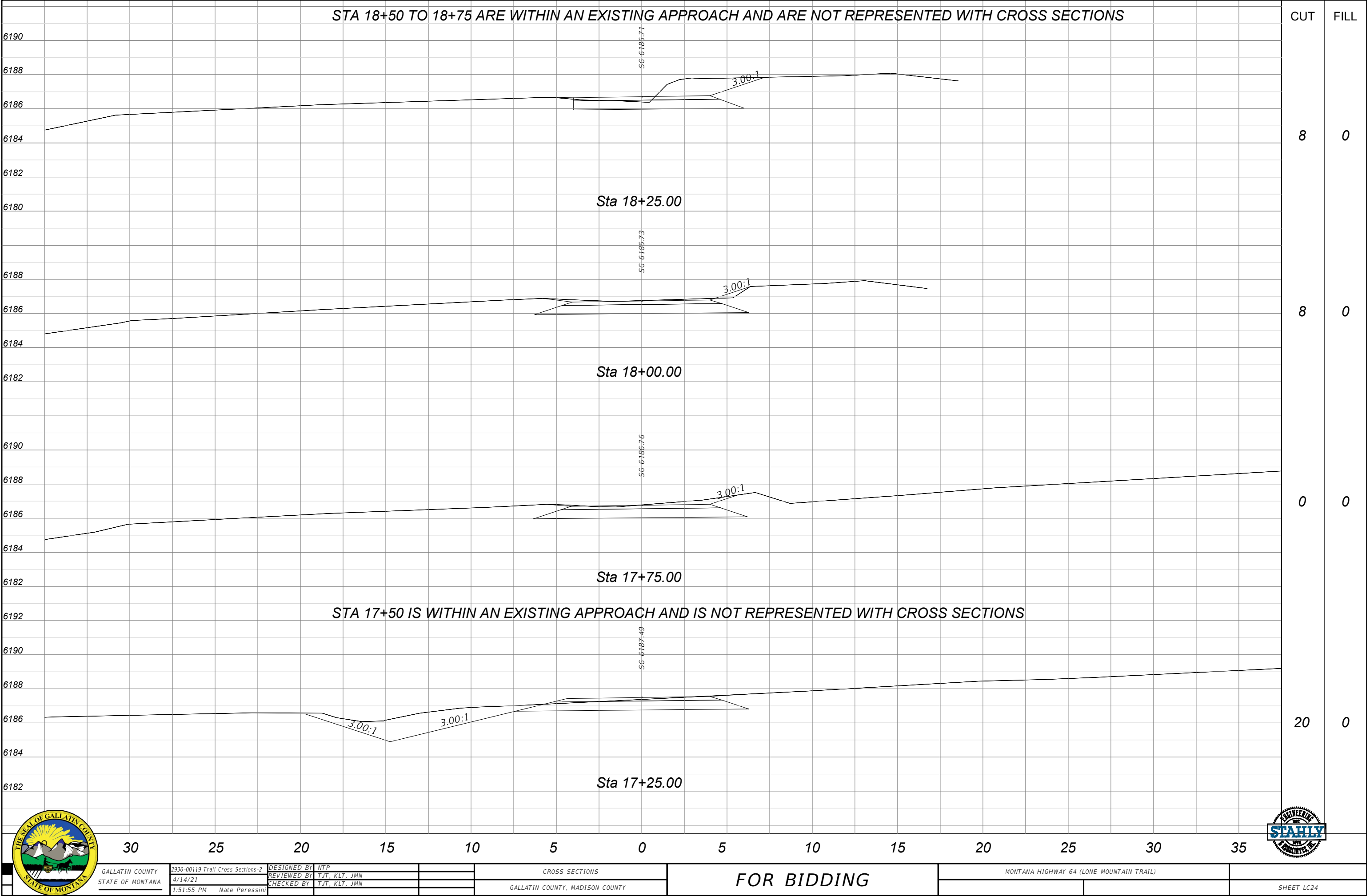
DESIGNED BY NTP
REVIEWED BY T.J.T., K.L.T., J.M.N.
CHECKED BY T.J.T., K.L.T., J.M.N.

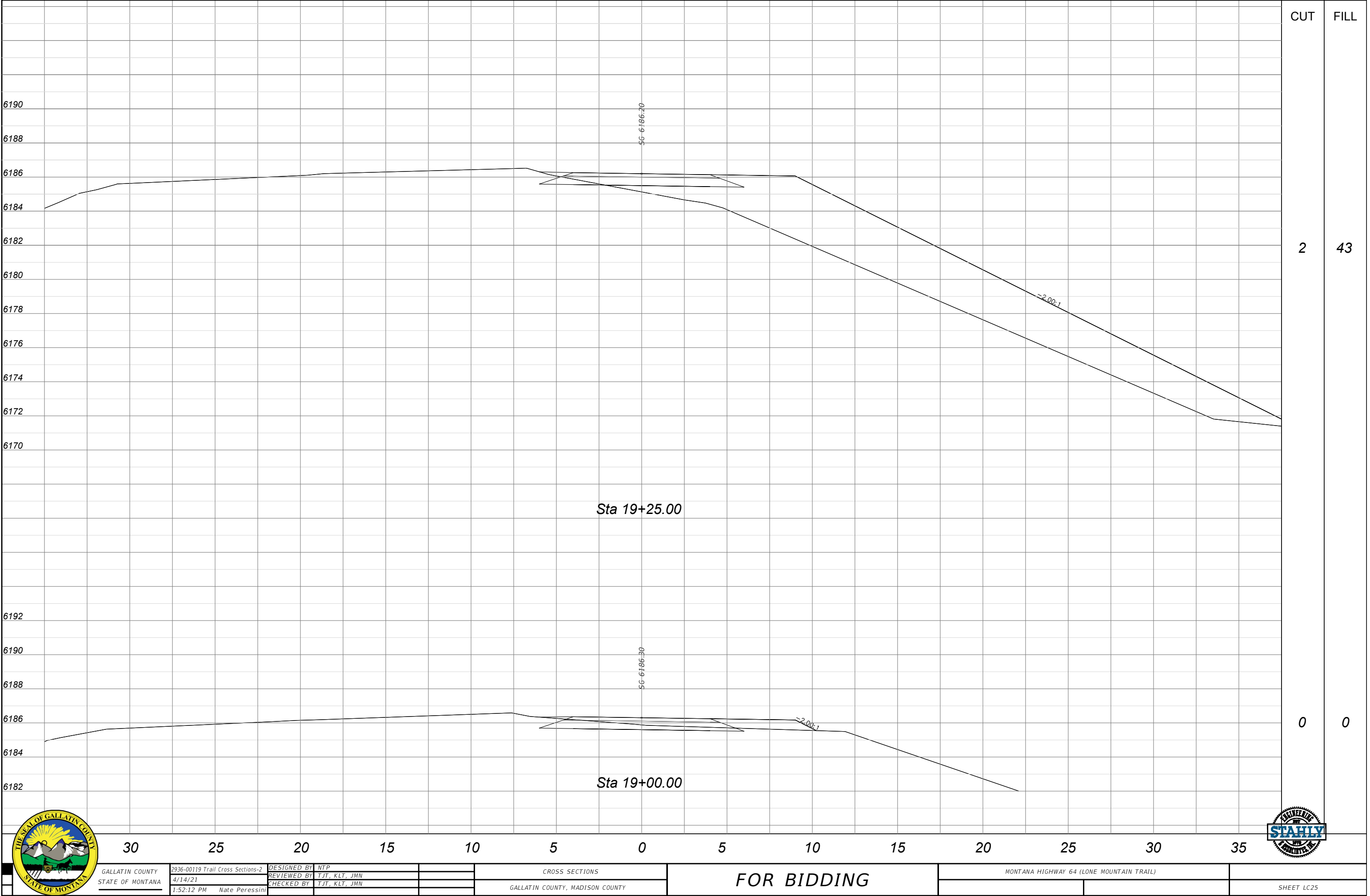
CROSS SECTIONS
GALLATIN COUNTY, MADISON COUNTY

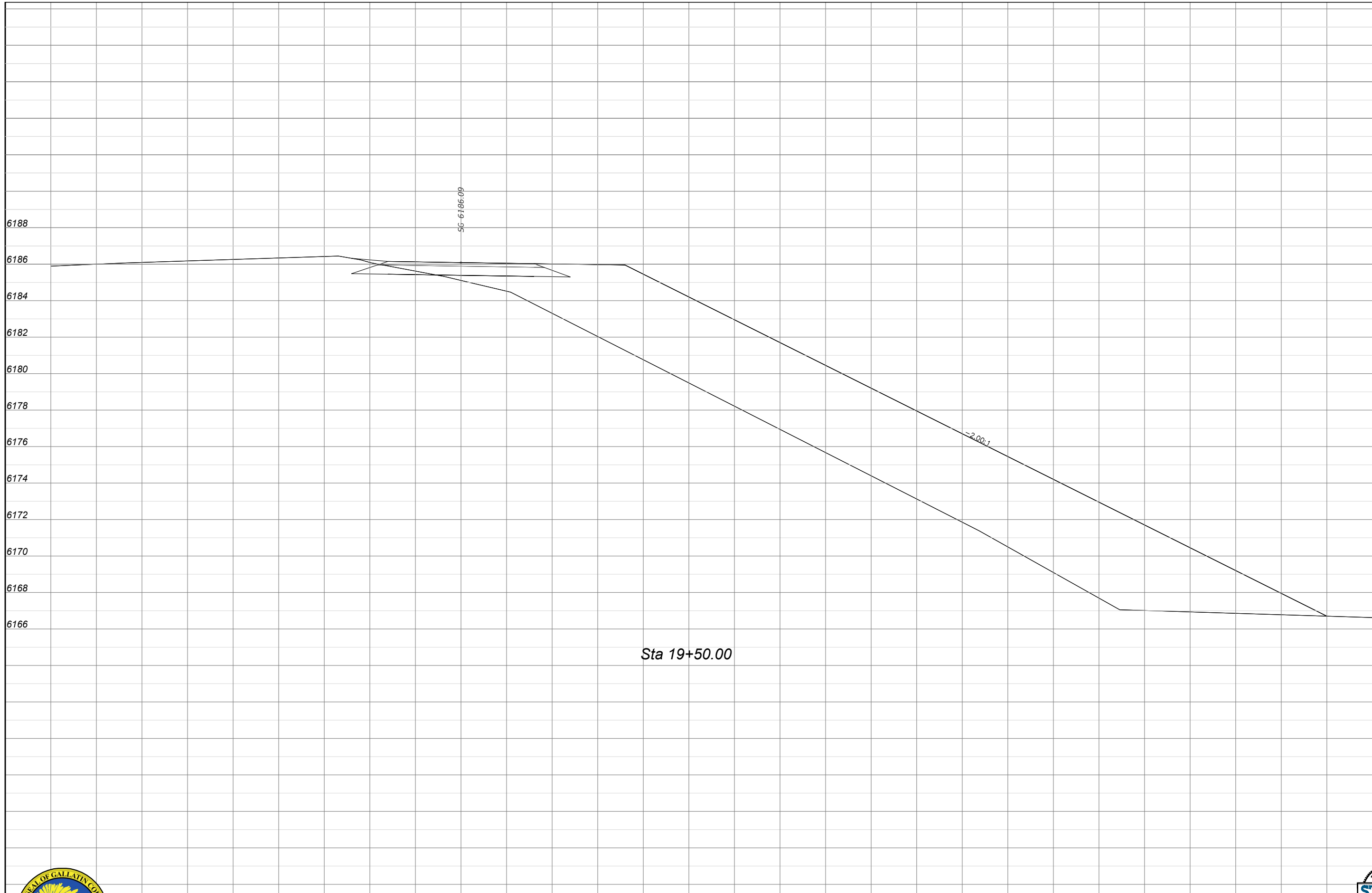
FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)
SHEET LC23









CUT	FILL
1	126



GALLATIN COUNTY
STATE OF MONTANA

2936-00119 Trail Cross Sections-2	DESIGNED BY NTP
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1:52:26 PM Nate Peressini	CHECKED BY TJT, KLT, JMN

CROSS SECTIONS

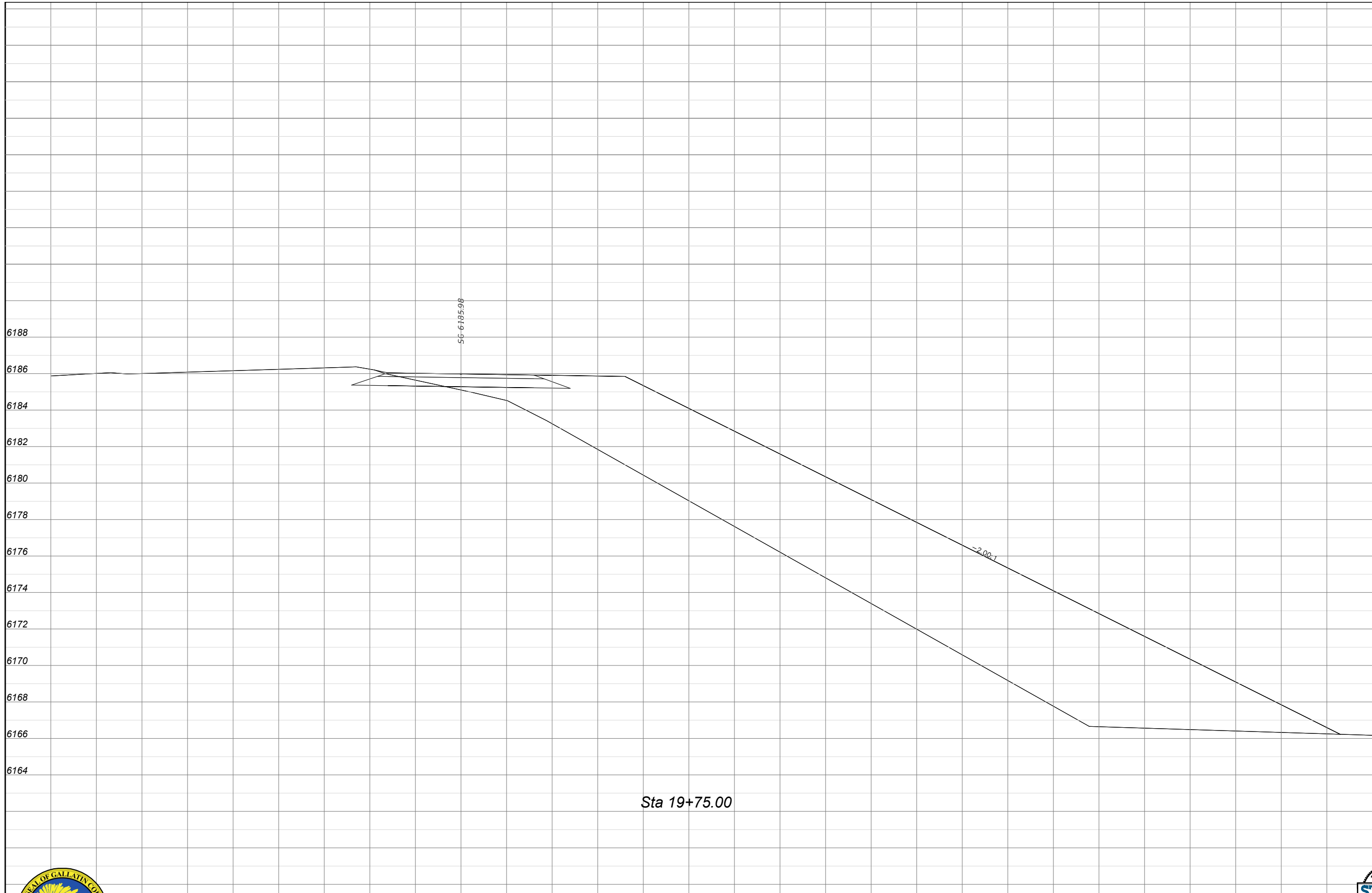
GALLATIN COUNTY, MADISON COUNTY

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC26



CUT	FILL
1	181



GALLATIN COUNTY
STATE OF MONTANA
2936-00119 Trail Cross Sections-2
4/14/21
1:52:41 PM Nate Peressini

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CHECKED BY TJT, KLT, JMN

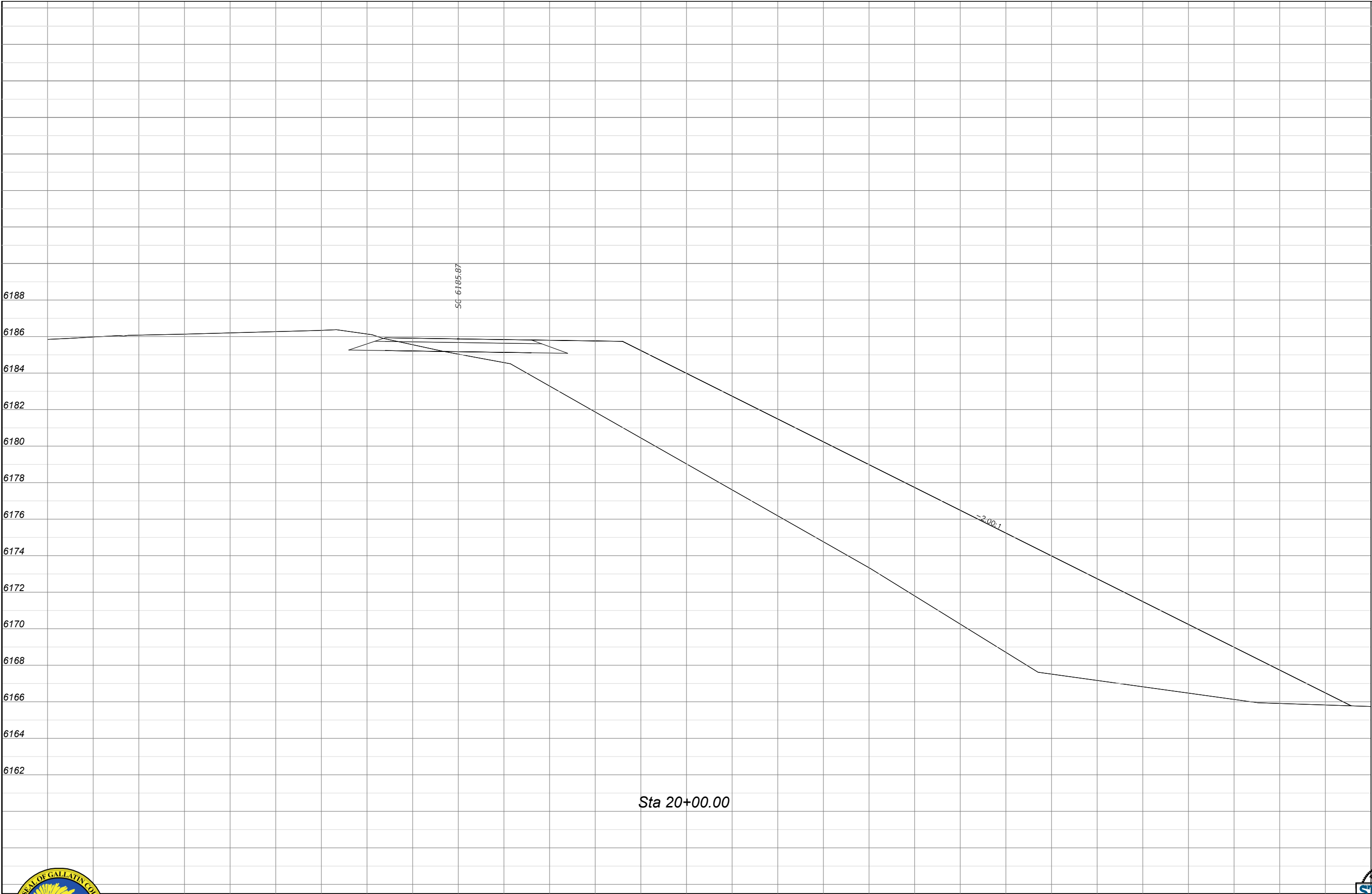
CROSS SECTIONS
GALLATIN COUNTY, MADISON COUNTY

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC27



CUT	FILL
2	193



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STATE OF MONTANA

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1:52:54 PM
Nate Peressini

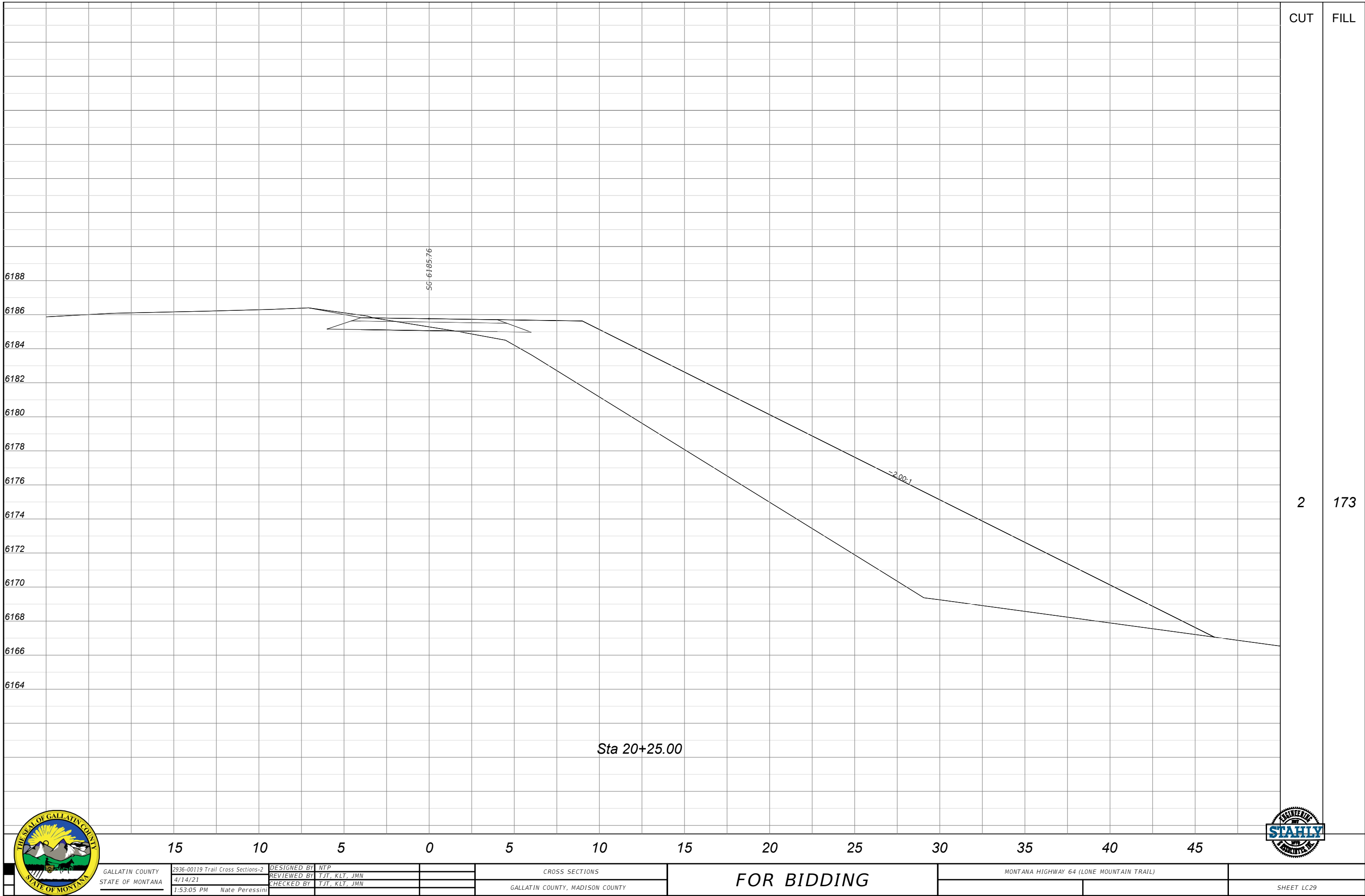
CROSS SECTIONS
GALLATIN COUNTY, MADISON COUNTY

FOR BIDDING

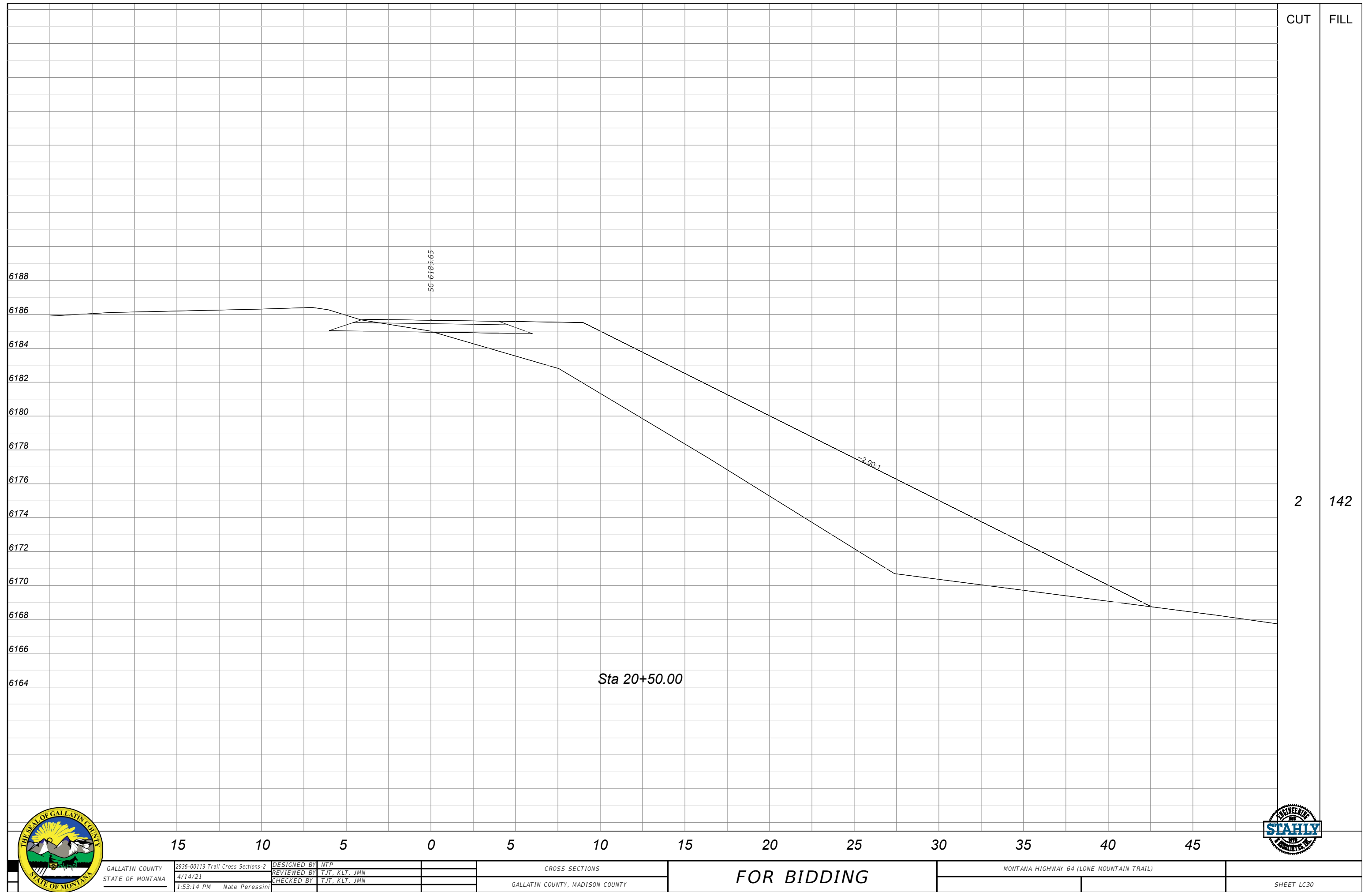
MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)

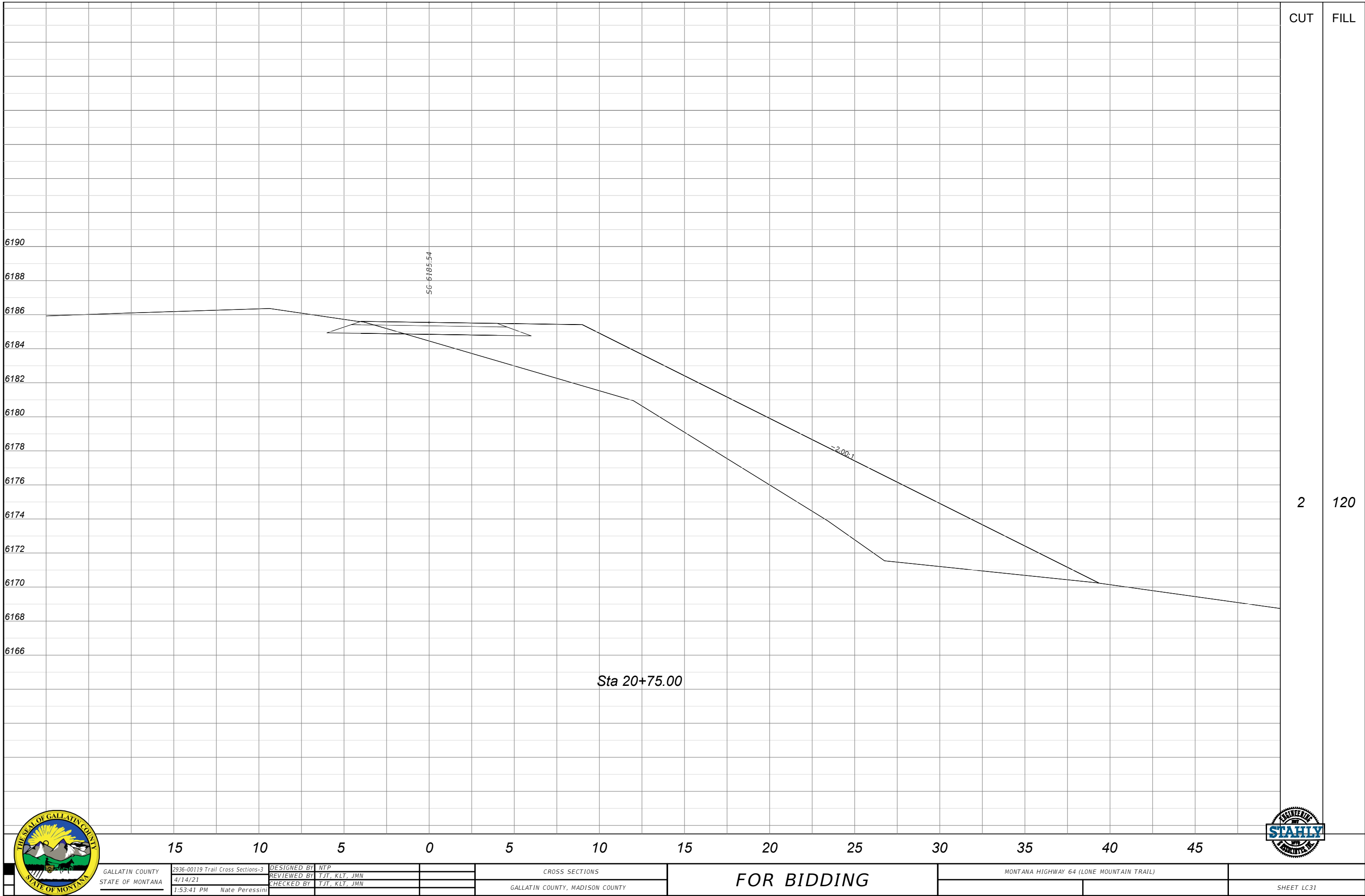


SHEET LC28



CUT	FILL
-----	------





GALLATIN COUNTY
STATE OF MONTANA

2936-00119 Trail Cross Sections-3
4/14/21
1:53:41 PM Nate Peressini

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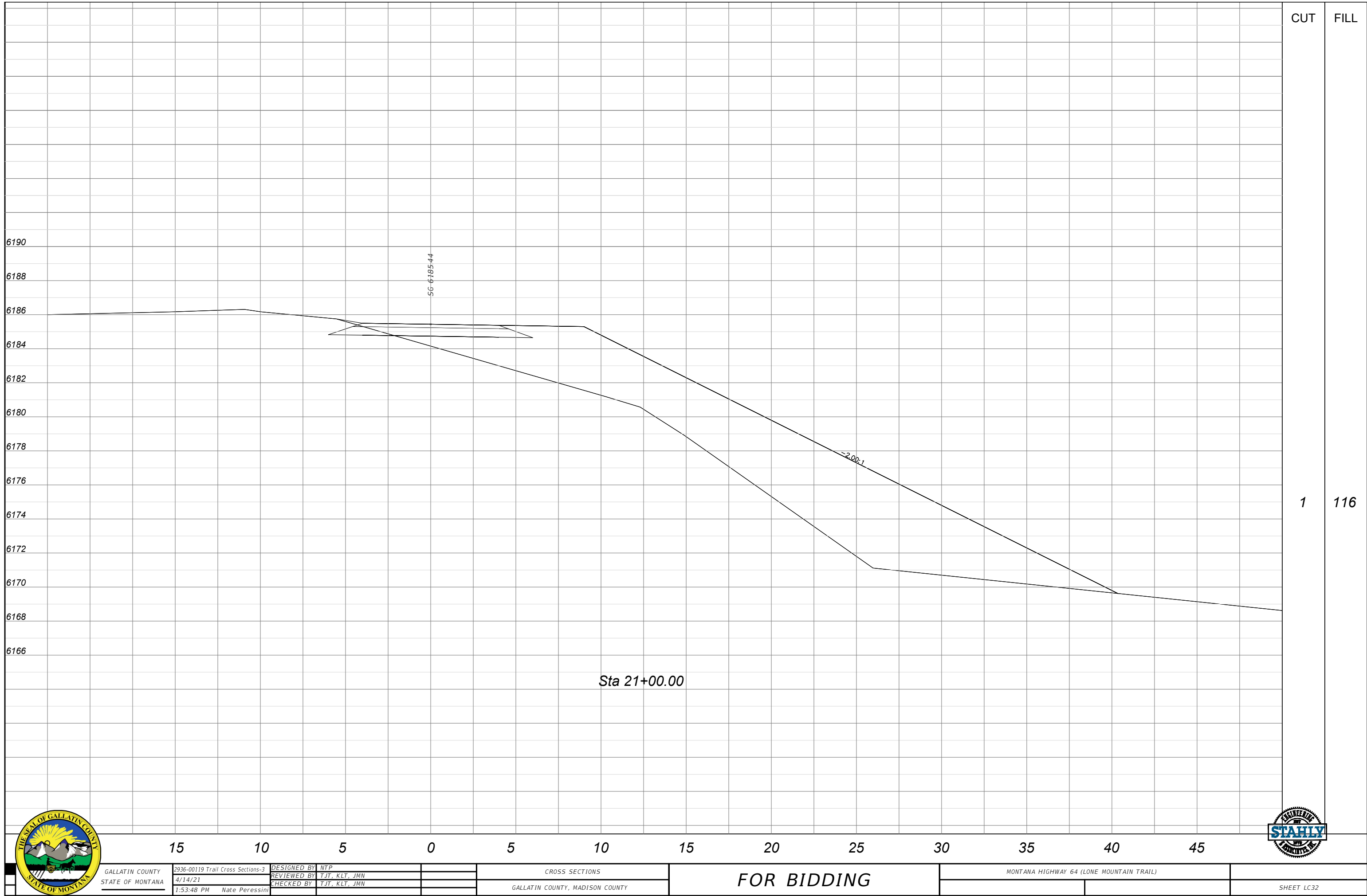
CROSS SECTIONS
GALLATIN COUNTY, MADISON COUNTY

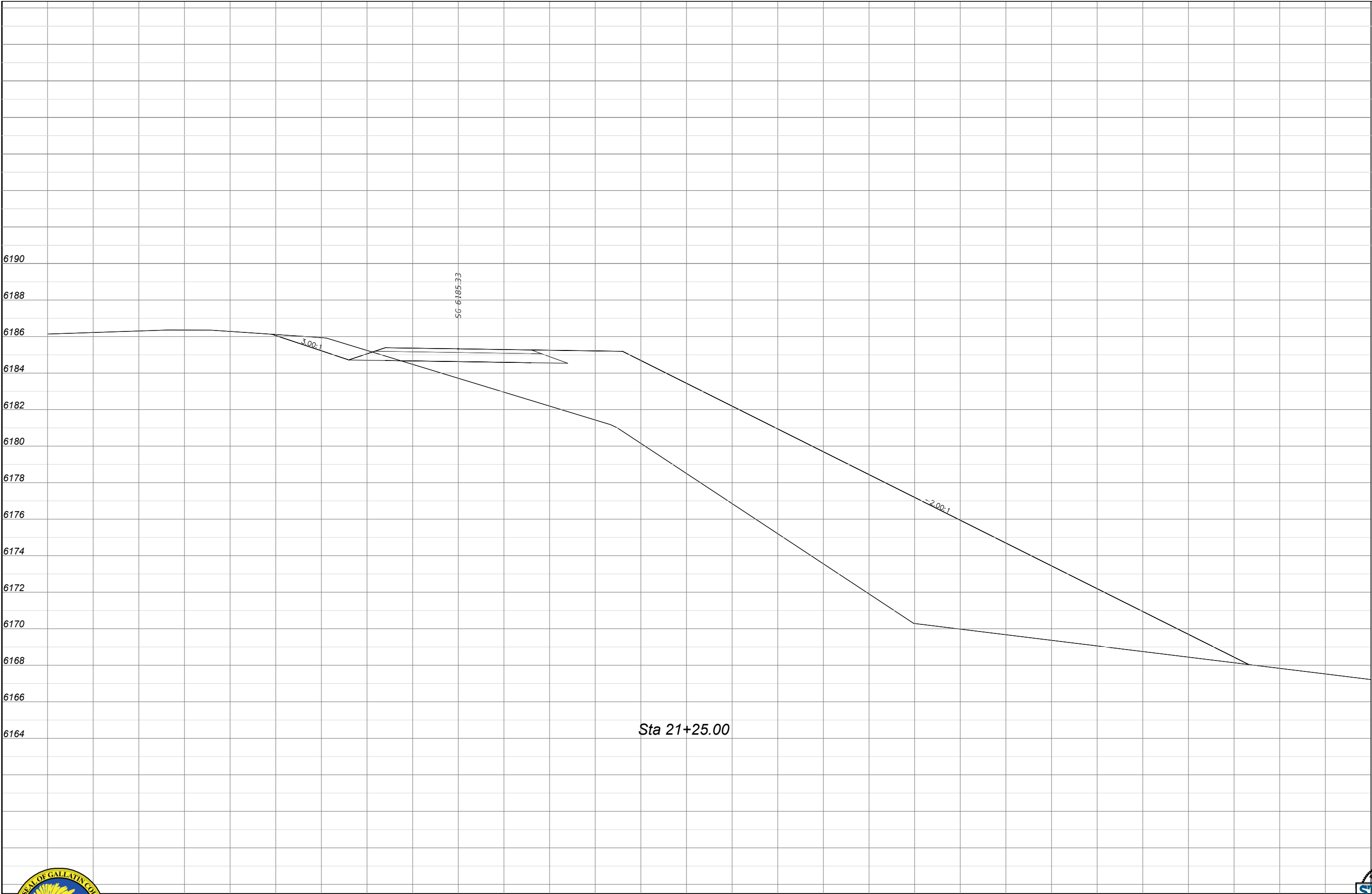
FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC31





CUT	FILL
2	144



GALLATIN COUNTY
STATE OF MONTANA

2936-00119 Trail Cross Sections-3
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1:53:58 PM Nate Peressini

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CROSS SECTIONS

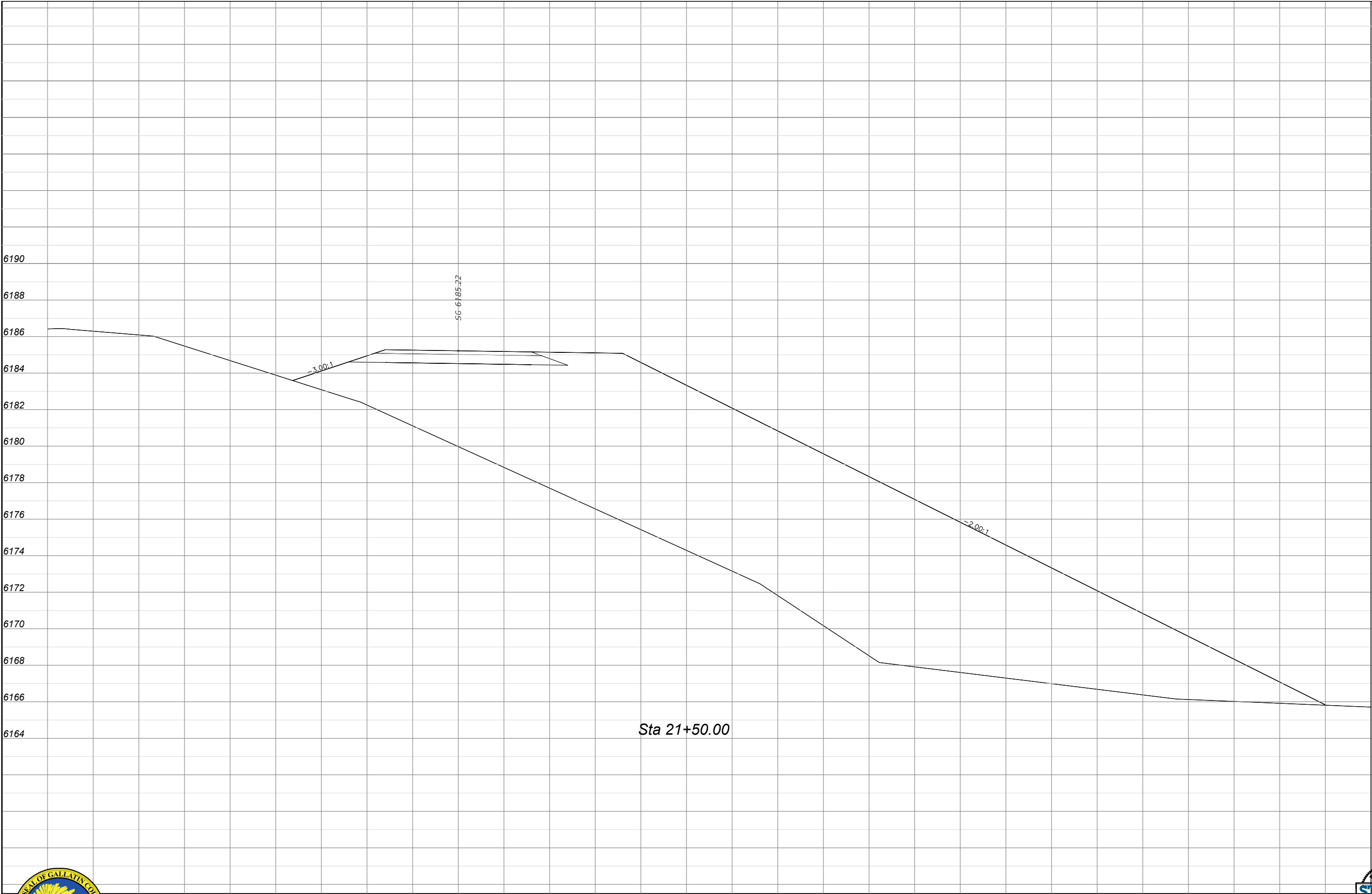
GALLATIN COUNTY, MADISON COUNTY

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)

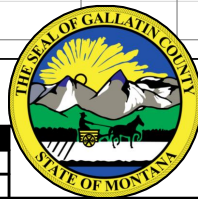


SHEET LC33



CUT FILL

2 240



GALLATIN COUNTY
STATE OF MONTANA

2936-00119 Trail Cross Sections-3
4/14/21
1:54:08 PM Nate Peressini

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CROSS SECTIONS

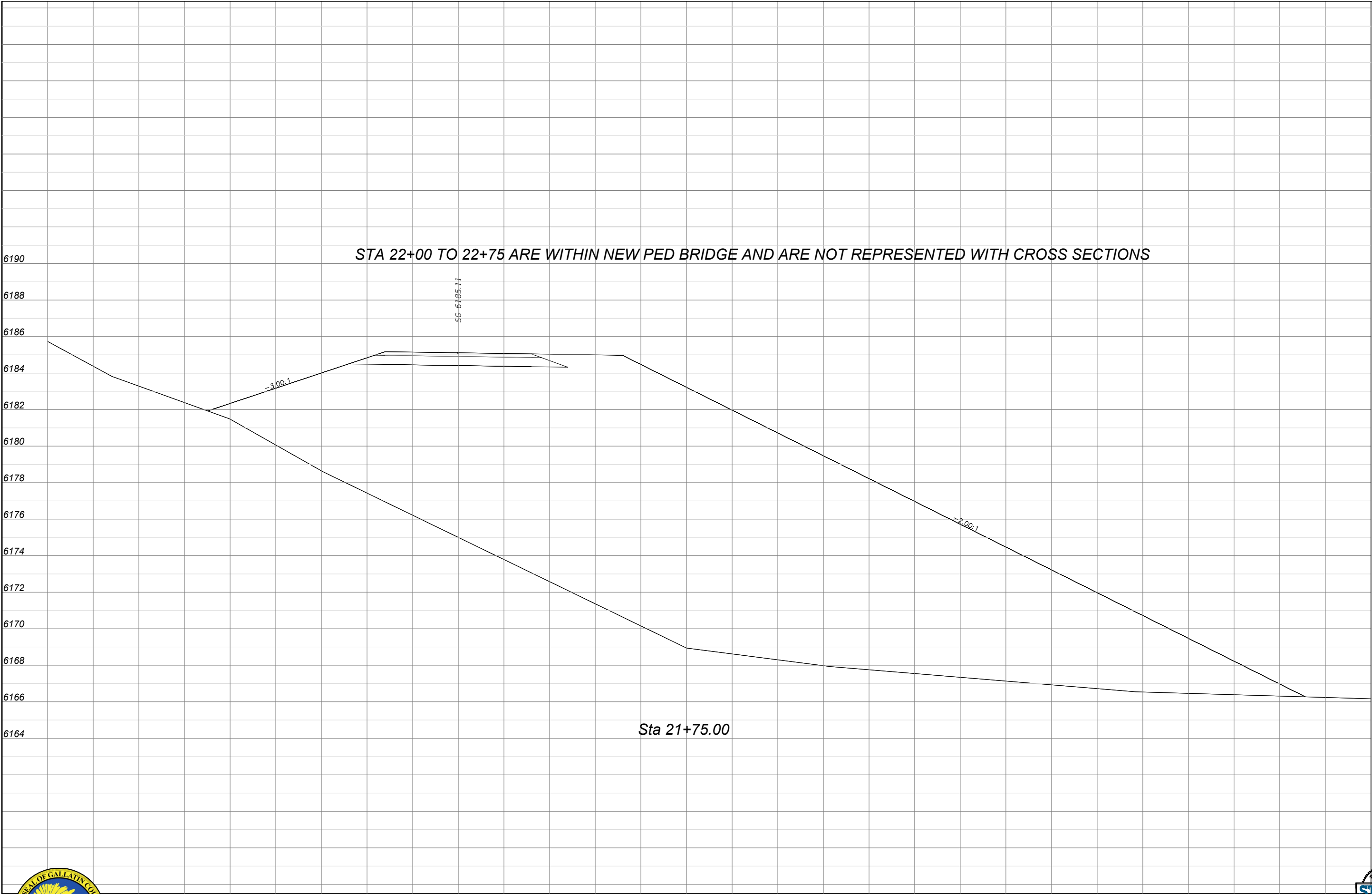
GALLATIN COUNTY, MADISON COUNTY

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC34



CUT	FILL
0	381



GALLATIN COUNTY
STATE OF MONTANA
2936-00119 Trail Cross Sections-3
4/14/21
1:54:18 PM Nate Peressini

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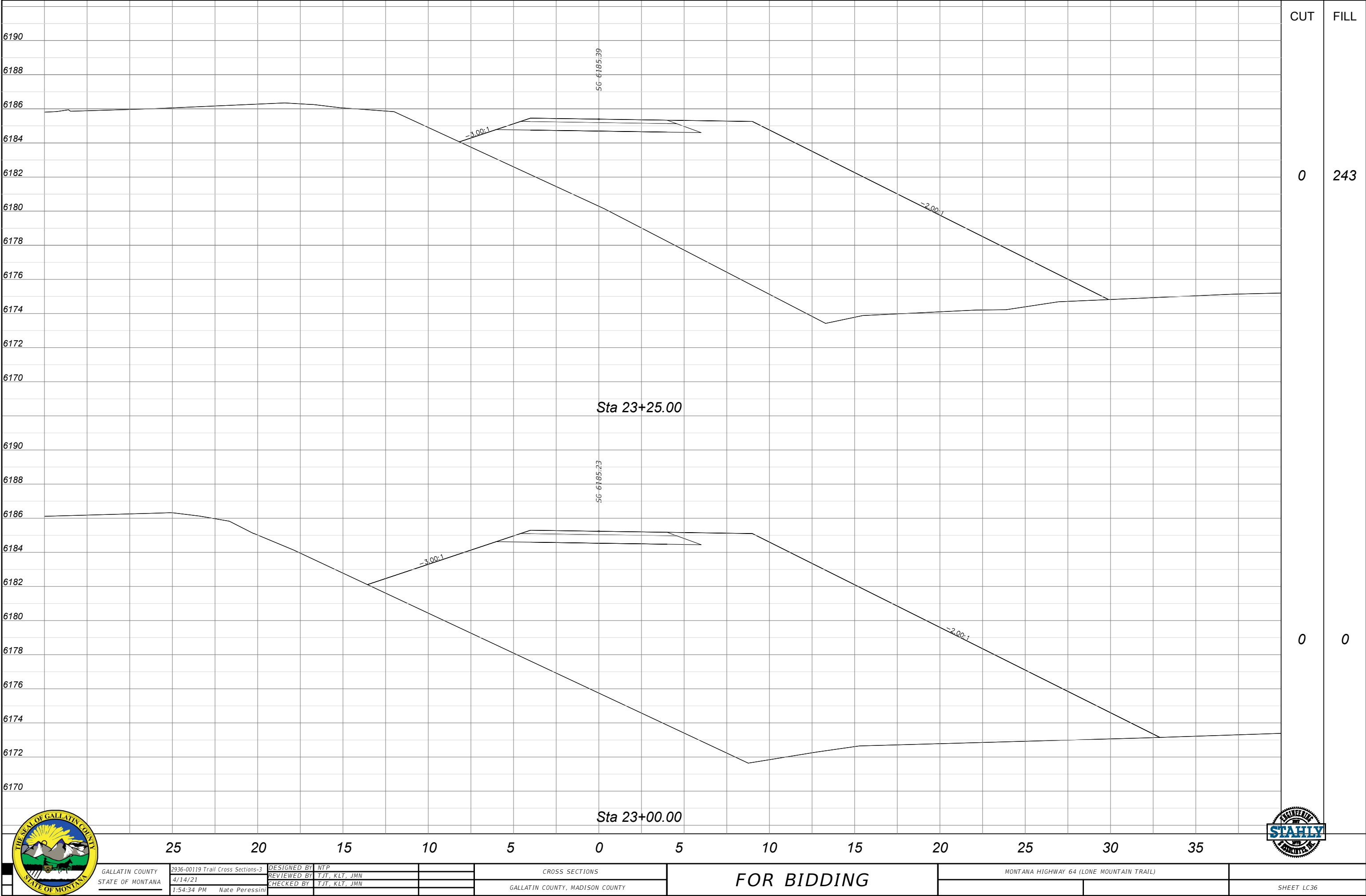
CROSS SECTIONS
GALLATIN COUNTY, MADISON COUNTY

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC35



GALLATIN COUNTY
STATE OF MONTANA

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4/14/21
1:54:34 PM Nate Peressini

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CROSS SECTIONS

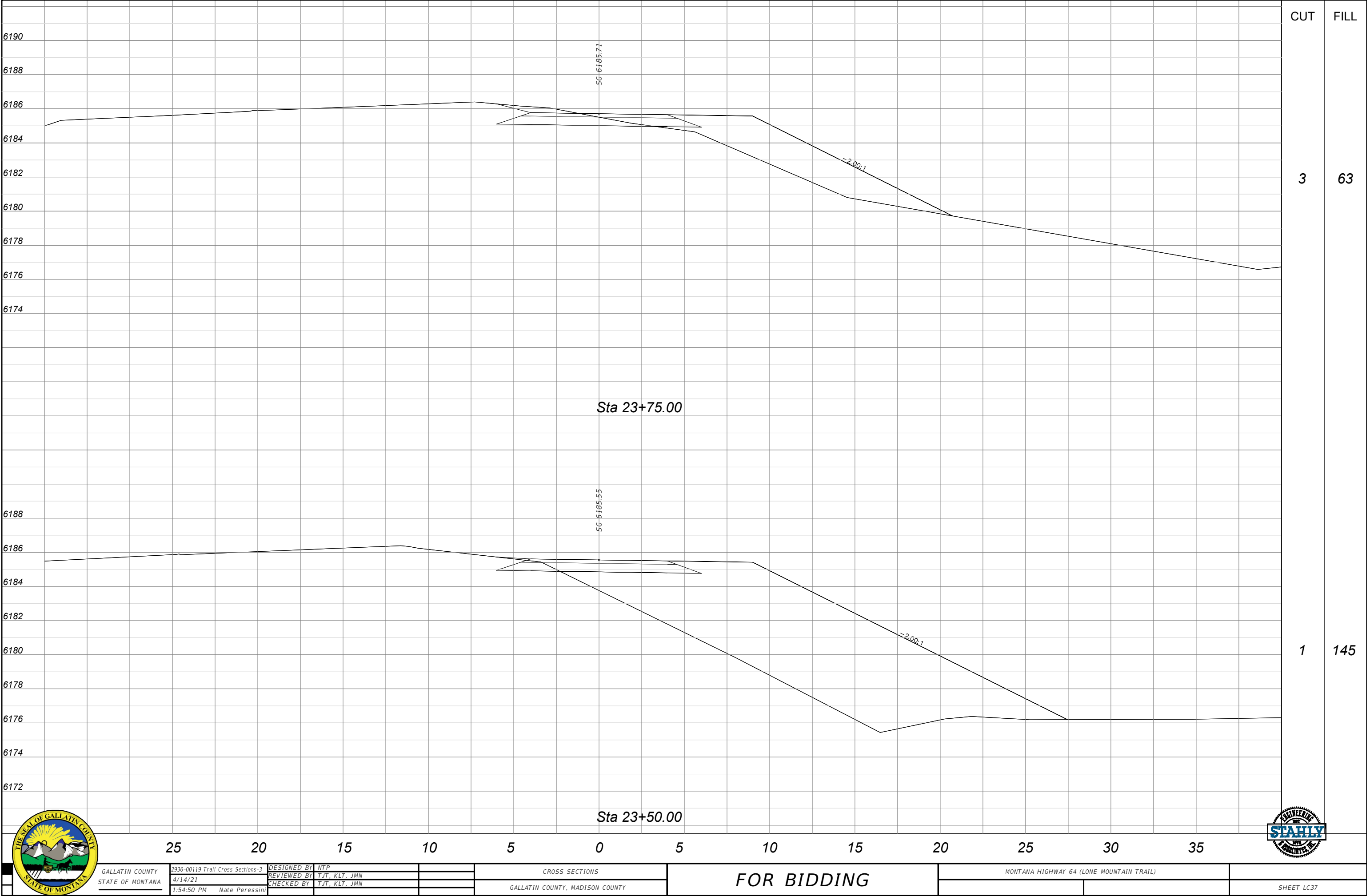
GALLATIN COUNTY, MADISON COUNTY

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC36



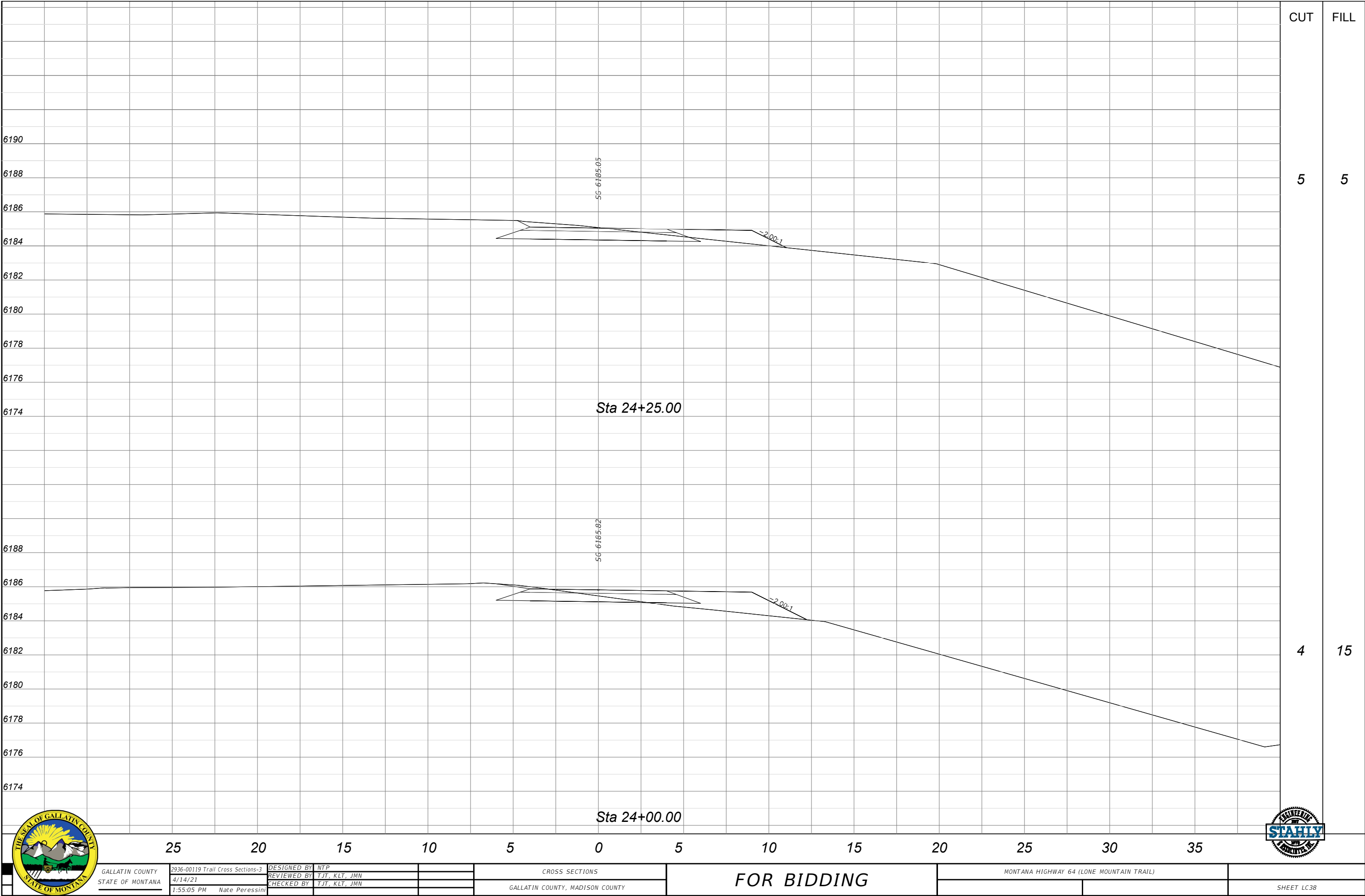
GALLATIN COUNTY
STATE OF MONTANA

2936-00119 Trail Cross Sections-3
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CROSS SECTIONS
GALLATIN COUNTY, MADISON COUNTY





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STATE OF MONTANA

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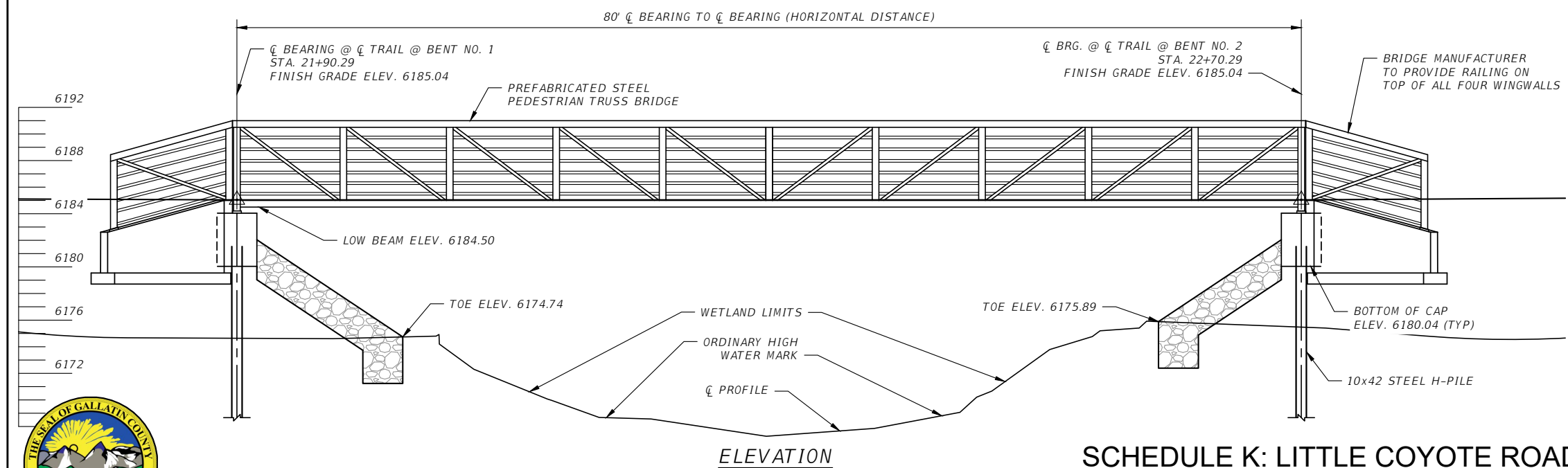
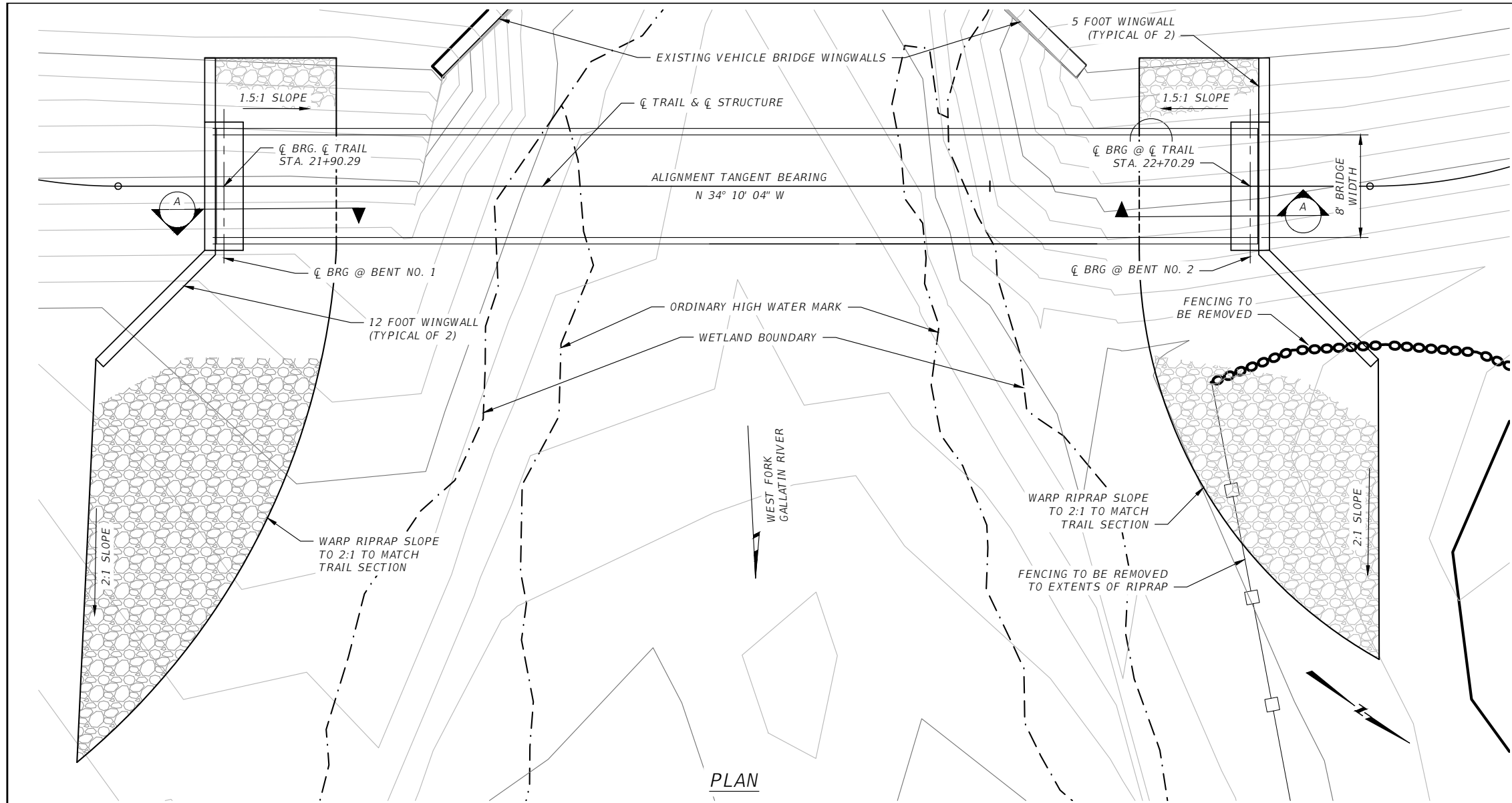
CROSS SECTIONS
GALLATIN COUNTY, MADISON COUNTY

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET LC38



BRIDGE DESIGN CRITERIA

BRIDGE DESIGN CODE: DESIGN THE BRIDGE SUPERSTRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES, 2009 EDITION.

DESIGN LOADING & DEFLECTION: DESIGN THE BRIDGE FOR PEDESTRIAN LOADING OF 90 PSF AND VEHICULAR LOADING FOR H5 DESIGN VEHICLE. THE VERTICAL DEFLECTION OF THE BRIDGE DUE TO PEDESTRIAN LIVE LOAD MUST NOT EXCEED 1/400 OF THE SPAN LENGTH.

LENGTH & WIDTH: THE BRIDGE SUPERSTRUCTURE MUST BE 80'-0" CENTERLINE BEARING TO CENTERLINE BEARING (DIMENSION MEASURED FROM EACH END OF THE BRIDGE STRUCTURE) AND 8'-0" CLEAR WIDTH BETWEEN RAILS.

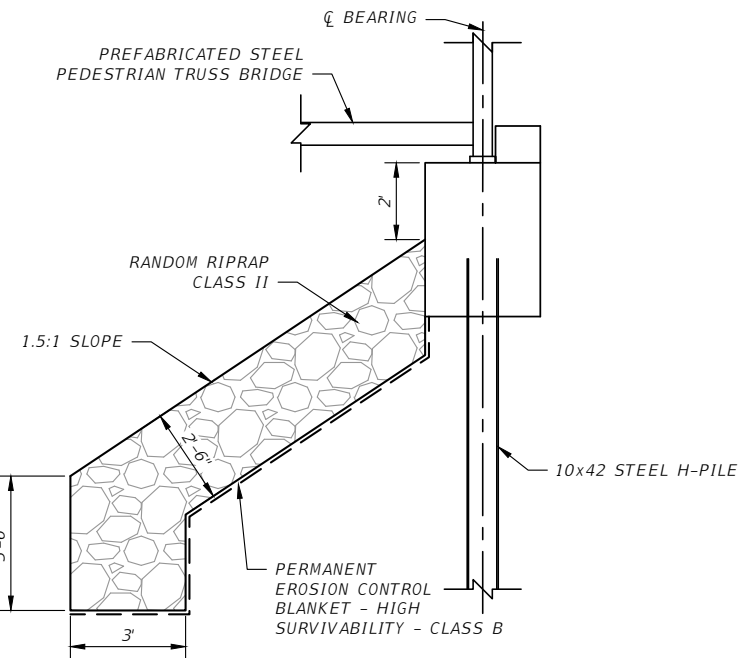
RAILING: THE SAFETY RAILING AND/OR TOP CHORD HEIGHT ABOVE THE DECK MUST BE A MINIMUM OF 54" TO ACCOMMODATE BOTH PEDESTRIAN AND BICYCLE TRAFFIC. THE RAILS ARE TO BE SPACED 50 AS TO PREVENT A 6" SPHERE FROM PASSING THROUGH THE TRUSS.

BRIDGE MATERIALS: STRUCTURAL STEEL COMPONENTS ARE UNPAINTED WEATHERING STEEL CONFORMING TO AASHTO M270 GRADE 50W FOR PLATES AND STRUCTURAL SHAPES OF ASTM A847 TUBULAR SECTIONS. EXPOSED EXTERIOR SURFACES ARE TO BE BLAST CLEANED TO SSPC-SP6 PRIOR TO SHIPMENT TO ENSURE UNIFORM WEATHERING.

THE BRIDGE DECK IS TO BE CONSTRUCTED OUT OF #2 DOUGLAS FIR, TREATED WOOD, PLACED PERPENDICULAR TO THE DIRECTION OF TRAVEL. WOOD DECKING IS TO BE INSTALLED AT THE BRIDGE FABRICATOR FACILITY AND DELIVERED TO THE JOB SITE COMPLETE.

CAST IN PLACE CONCRETE: UNLESS OTHERWISE APPROVED OR SPECIFIED, USE CONCRETE CLASS STRUCTURE FOR ALL SUBSTRUCTURE CONCRETE.

REINFORCING STEEL: USE NEW DEFORMED TYPE REINFORCING STEEL MEETING THE REQUIREMENTS OF ASTM SPECIFICATION A 615/A 615-M GRADE 60.



A SECTION A
NOT TO SCALE



GALLATIN COUNTY
STATE OF MONTANA
2936-00119 Bridge Plans
4/14/21
1:55:39 PM Nate Peressini

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BRIDGE LAYOUT
GALLATIN COUNTY, MADISON COUNTY

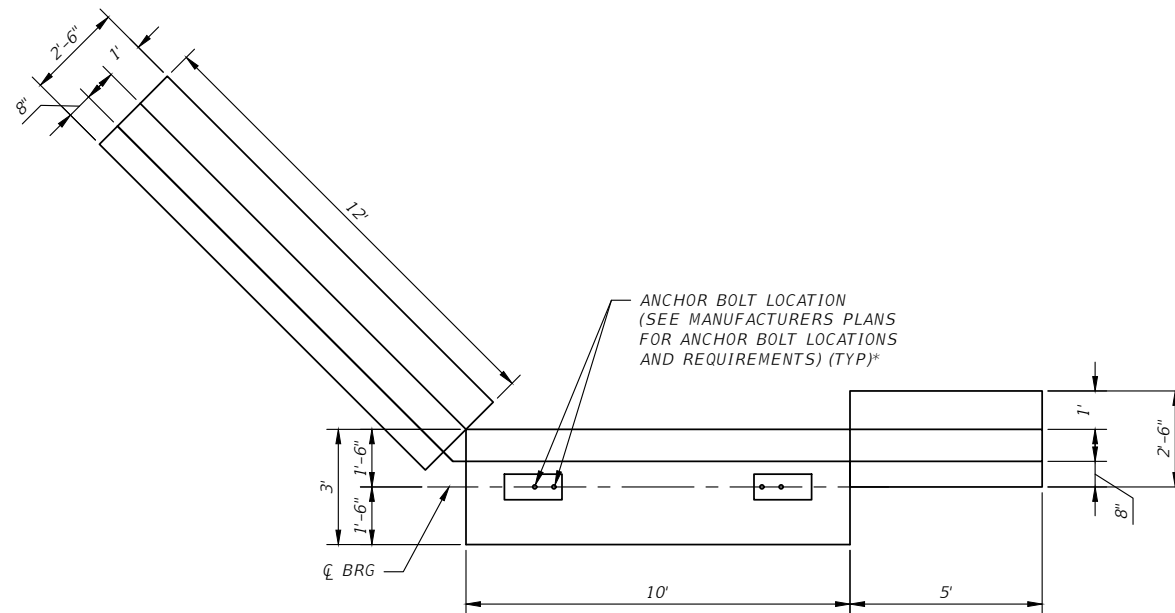
SCHEDULE K: LITTLE COYOTE ROAD PEDESTRIAN BRIDGE

FOR BIDDING

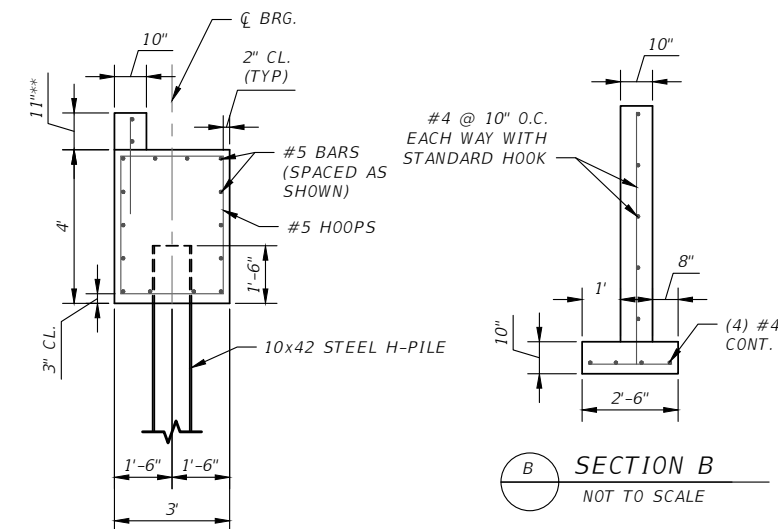
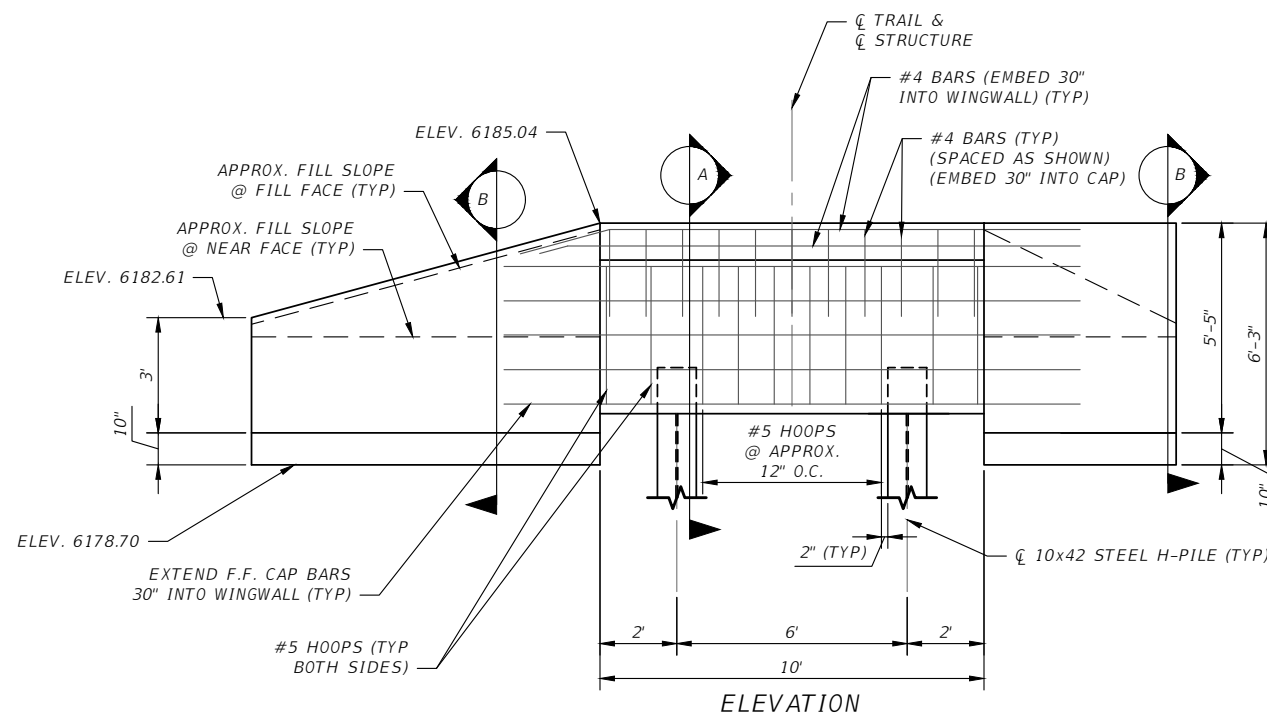
MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET B1



*BRIDGE MANUFACTURER TO SUPPLY BEARING ASSEMBLIES & ANCHOR BOLTS. COST IS INCIDENTAL TO BRIDGE BID ITEM.



**DIMENSION DEPENDANT ON SUPERSTRUCTURE DESIGN CONTRACTOR TO VERIFY.

NOTES:
REBAR COST IS INCIDENTAL TO CONCRETE - CLASS STRUCTURE BID ITEM.

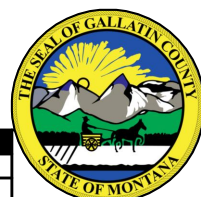
SOILS AND FOUNDATION MATERIALS - SK GEOTECHNICAL COMPLETED THE GEOTECHNICAL INVESTIGATION, INCLUDING TWO BOREHOLES, ONE NEAR EACH ABUTMENT.

SEE BORING LOGS ST-12 & ST-13 FOR BORING LOGS AND ADDITIONAL SUBSURFACE INFORMATION.

DESIGN PILE TIP ELEVATION:
BENT NO.1 = 6133.00 RECOMMENDED FURNISH LENGTH = 50 FT
BENT NO.2 = 6133.00 RECOMMENDED FURNISH LENGTH = 50 FT

ULTIMATE PILE CAPACITY DURING DRIVING:
BENT NO.1 = 122 KIPS
BENT NO.2 = 122 KIPS

CONTACT THE ENGINEER IF PILE TIP ELEVATIONS DEVIATE MORE THAN 1.0 FOOT FROM THE ELEVATION INDICATED.



GALLATIN COUNTY
STATE OF MONTANA

2936-00119 Bridge Plans
4/14/21
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BRIDGE FOUNDATION DETAILS
GALLATIN COUNTY, MADISON COUNTY

SCHEDULE K: LITTLE COYOTE ROAD PEDESTRIAN BRIDGE

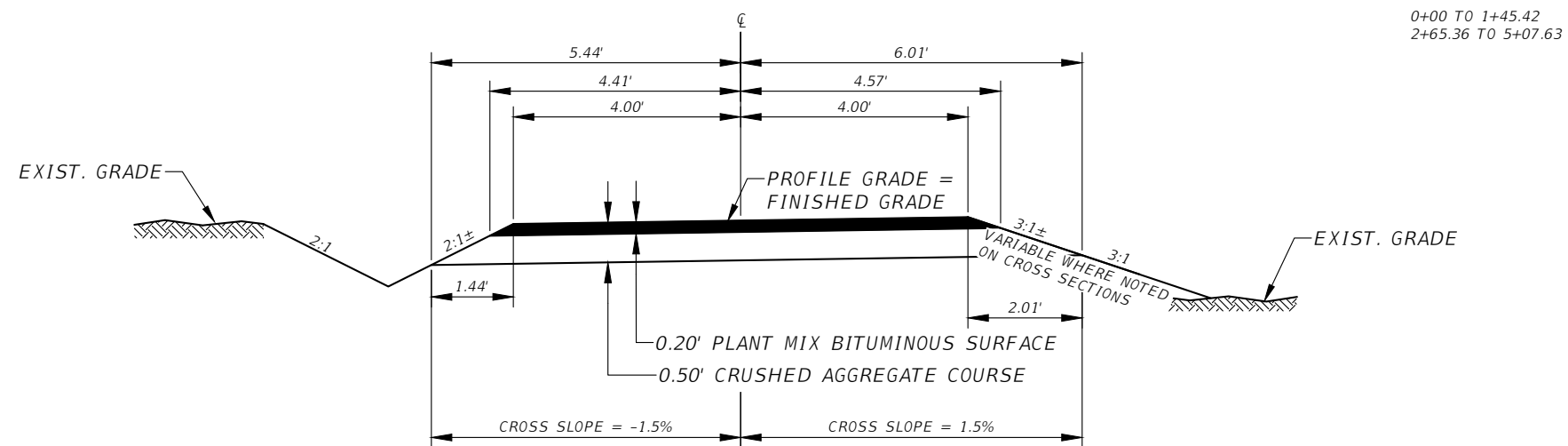
FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)

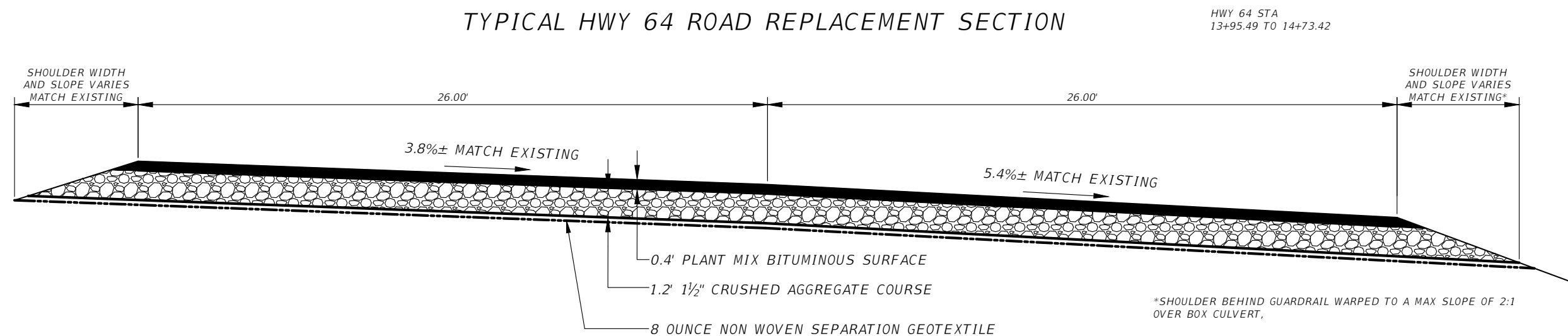


SHEET B2

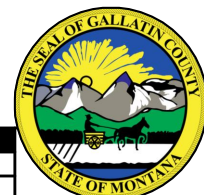
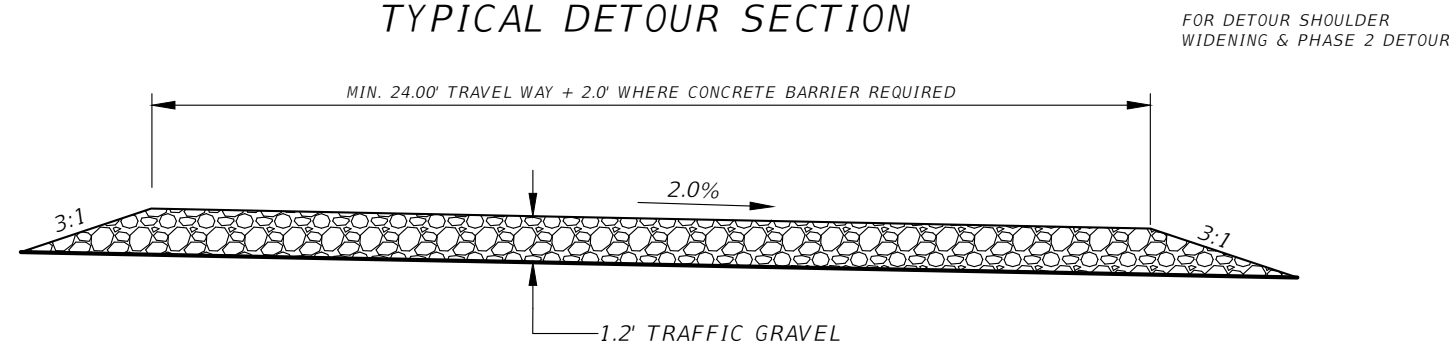
TYPICAL TRAIL SECTION 1



TYPICAL HWY 64 ROAD REPLACEMENT SECTION



TYPICAL DETOUR SECTION



GALLATIN COUNTY
STATE OF MONTANA

2936-00119 Tunnel Typical Sections
4/14/21

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TYPICAL TUNNEL SECTIONS
GALLATIN COUNTY, MADISON COUNTY

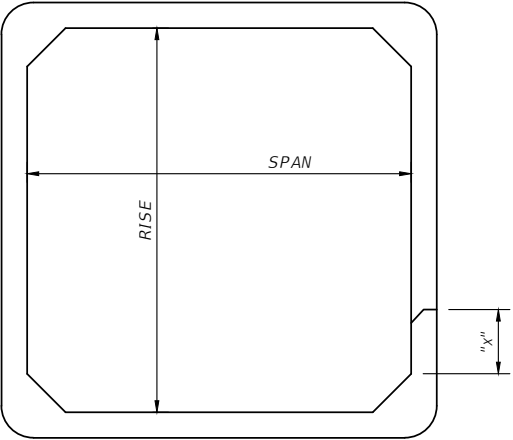
SCHEDULE I: LITTLE COYOTE ROAD PEDESTRIAN TUNNEL

FOR BIDDING

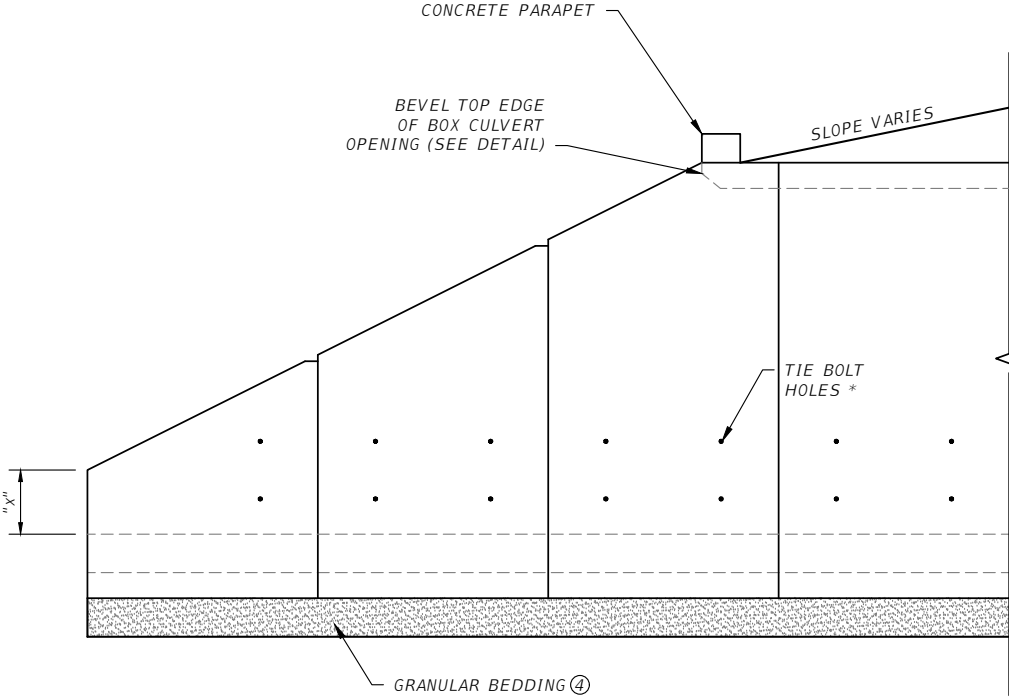
MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET T1

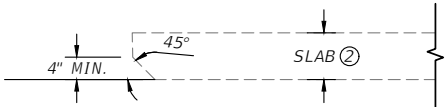


FRONT ELEVATION

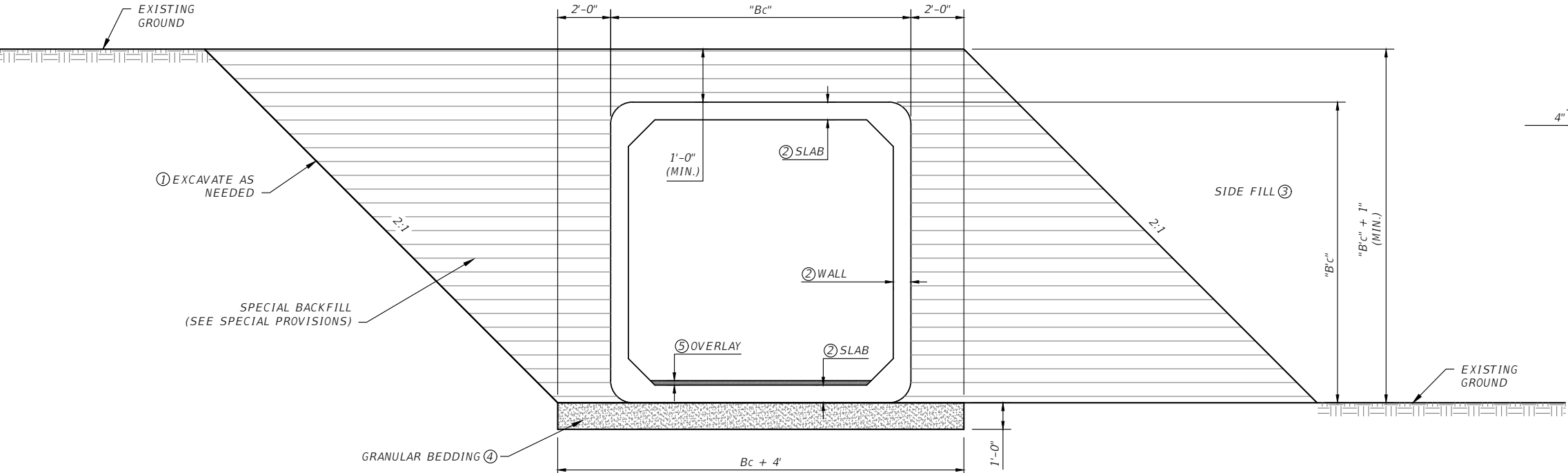


SIDE ELEVATION

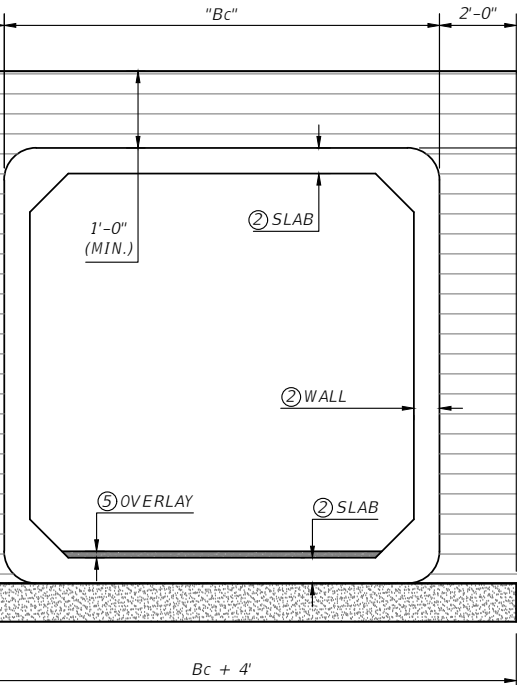
* TIE BOLTS, LOCATE PER MANUFACTURER'S RECOMMENDATION



TOP BEVEL DETAIL



EXCAVATION
TYPICAL



BEDDING DETAIL

FILL
TYPICAL

- NOTES:
- ① EXCAVATE A SUFFICIENT AMOUNT TO PROVIDE A SAFE WORKING ENVIRONMENT AND TO ALLOW ACHIEVEMENT OF ALL CULVERT INSTALLATION AND COMPACTION REQUIREMENTS. SLOPE, BENCH OR PROVIDE SHORING FOR ALL EXCAVATIONS IN ACCORDANCE WITH THE U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION.
 - ② FOR ESTIMATING QUANTITIES ONLY, ACTUAL DIMENSIONS TO BE DETERMINED BY PRECAST MANUFACTURER.
 - ③ COMPACT AND PLACE SIDE FILL PER SECTION 603 AND 203.
 - ④ SEE SECTION 701.04 FOR BEDDING MATERIAL REQUIREMENTS. THE CONTRACTOR HAS THE OPTION OF USING A SAND CUSHION ABOVE THE GRANULAR BEDDING TO FACILITATE JOINING OF THE BOX CULVERT SECTIONS.
 - ⑤ CONTRACTOR TO PLACE AND COMPACT 2" OVERLAY OF ASPHALT THROUGHOUT ENTIRE LENGTH OF PEDESTRIAN TUNNEL. THIS OVERLAY WILL PROVIDE A CONSISTENT ADA SURFACING, WITHOUT JOINTS THROUGHOUT THE TUNNEL. SEE SHEET T5 FOR PROFILE VIEW AND ELEVATIONS OF THE TUNNEL.

DIMENSIONS										
STATION	SPAN (ft)	RISE (ft)	LENGTH (ft)	② WALL (in)	② SLAB (in)	"Bc" (ft)	"x" (ft)	"B'c" (ft)	COVER (ft)	⑤ OVERLAY (in)
14+34.34	10	10	120	8	8	11.33	2.67	11.33	3.1	2

NOTE: INCLUDE ANCHOR BOLTS AND PARAPETS IN THE UNIT PRICE BID PER LINEAR FOOT OF CULVERT.
PROVIDE BOX CULVERTS MEETING ASTM C1577.
QUANTITIES ARE BASED ON THE DIMENSIONS IN THE TABLE.



GALLATIN COUNTY
STATE OF MONTANA
2936-00119_TUNNEL DETAILS
4/14/21
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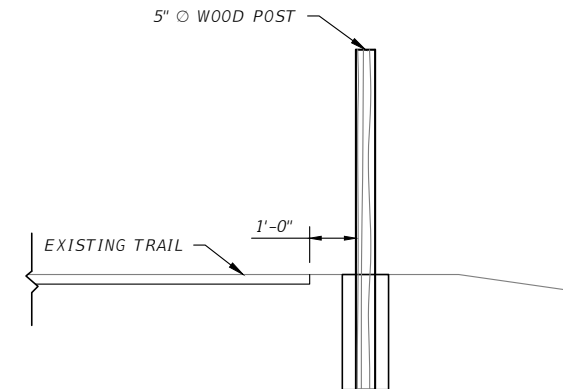
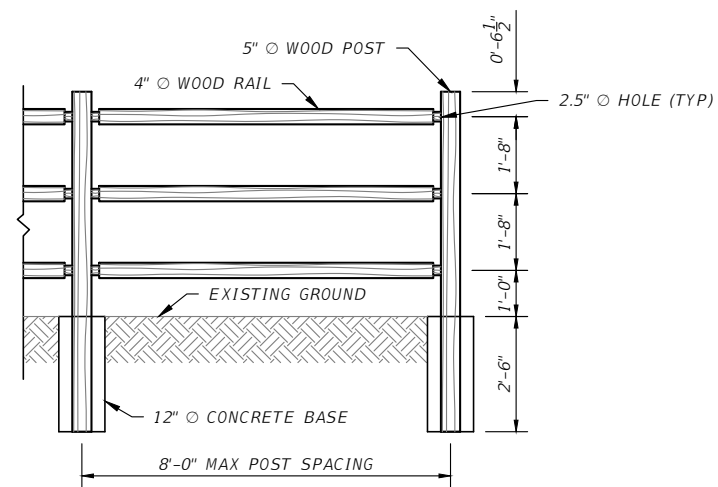
SLOPED END RCB DETAIL
GALLATIN COUNTY, MADISON COUNTY

SCHEDULE I: LITTLE COYOTE ROAD PEDESTRIAN TUNNEL

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



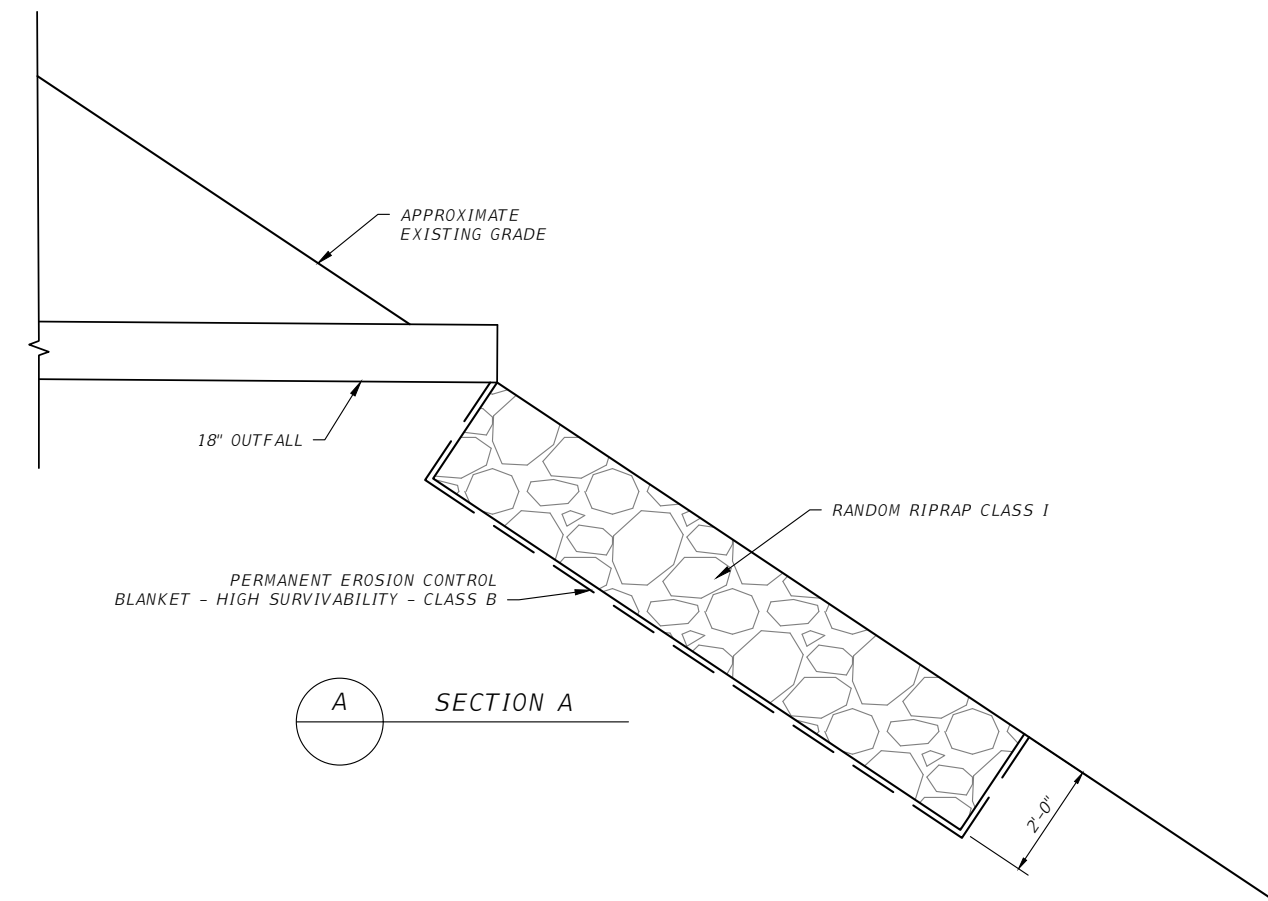
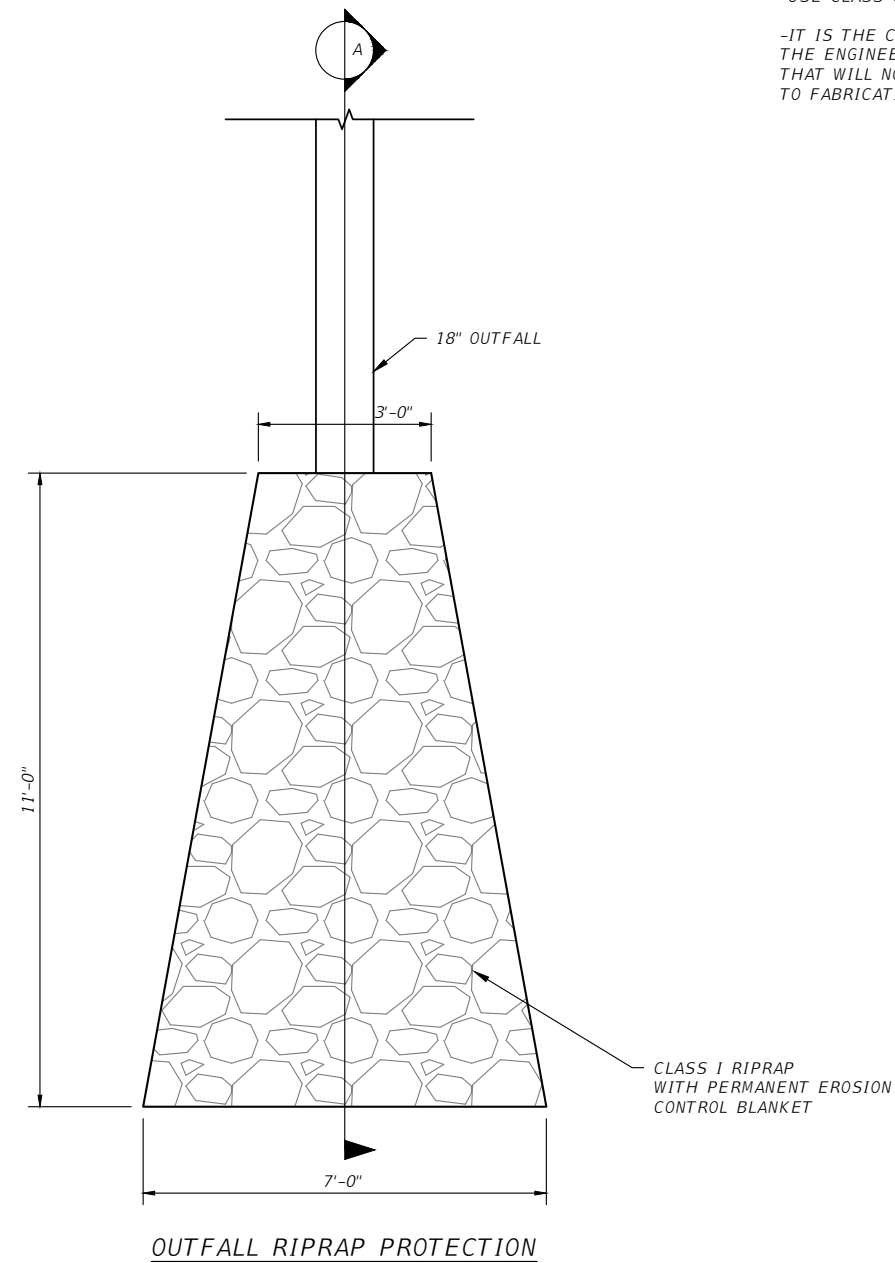


BICYCLE RAIL DETAIL

NOTES:

-USE CLASS GENERAL CONCRETE OR EQUIVALENT

-IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER OF ANY ACCESSIBILITY COMPONENT THAT WILL NOT MEET ADA/PROWAG STANDARDS PRIOR TO FABRICATION AND INSTALLATION.



GALLATIN COUNTY
STATE OF MONTANA

2936-00119_TUNNEL DETAILS
4/14/21
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TUNNEL DETAILS

GALLATIN COUNTY, MADISON COUNTY

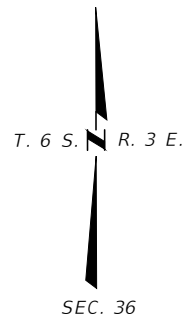
SCHEDULE 1: LITTLE COYOTE ROAD PEDESTRIAN TUNNEL

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET T3



MH-1
COMB MANHOLE AND DROP INLET
TYPE 1
48" MH
N 375,665.263
E 1,506,878.171
GRATE=6203.10
I.E. OUT (NE)=6200.10
FLOOR=6198.10

18" TRUNK LINE
137' CENTER TO CENTER
9.7' INSIDE TO INSIDE

MH-2
COMB MANHOLE AND DROP INLET
TYPE 1
48" MH
N 375,675.692
E 1,506,887.004
GRATE=6203.04
I.E. IN (SW)=6200.00
I.E. OUT (SE)=6199.89
FLOOR=6197.89

18" TRUNK LINE
127.6' CENTER TO CENTER
123.6' INSIDE TO INSIDE

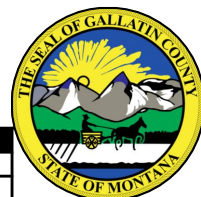
MH-3
COMB MANHOLE AND DROP INLET
TYPE 1
48" MH
N 375,593.212
E 1,506,984.395
GRATE=6201.93
I.E. IN (NW)=6198.93
I.E. OUT (SW)=6198.83
FLOOR=6196.83

18" TRUNK LINE
137' CENTER TO CENTER
9.7' INSIDE TO INSIDE

MH-4
COMB MANHOLE AND DROP INLET
TYPE 1
48" MH
N 375,582.783
E 1,506,975.563
GRATE=6201.99
I.E. IN (NE)=6198.73
I.E. OUT (SE)=6198.63
FLOOR=6196.63

18" TRUNK LINE
89.8' END TO CENTER
87.8' END TO INSIDE

OUTFALL
N 375,508.119
E 1,507,025.508
GRATE=6201.99
I.E.=6197.95



GALLATIN COUNTY
STATE OF MONTANA
2936-00119_TUNNEL DETAILS
4/14/21
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STORM SEWER SCHEMATIC DETAIL
GALLATIN COUNTY, MADISON COUNTY

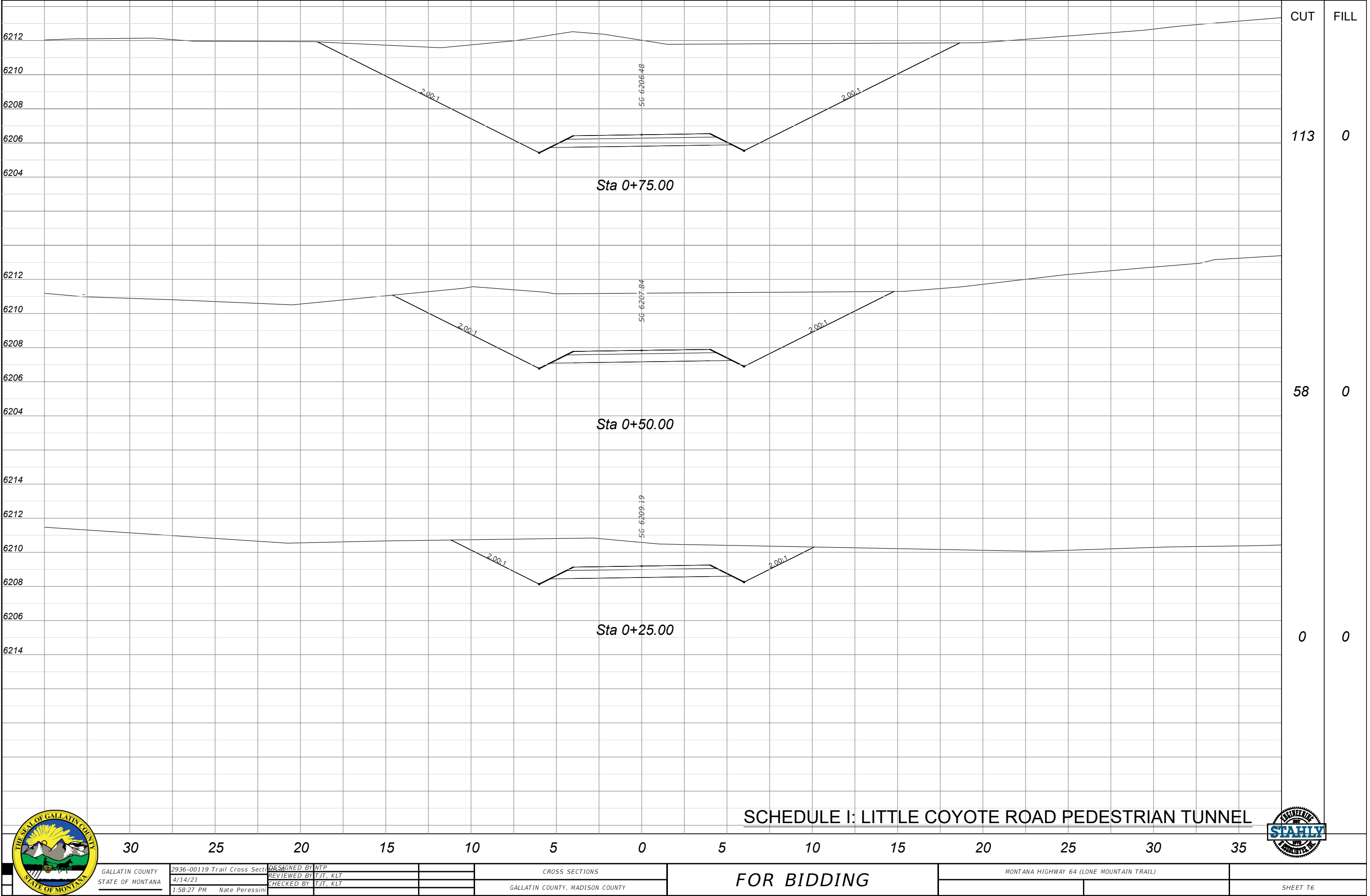
SCHEDULE I: LITTLE COYOTE ROAD PEDESTRIAN TUNNEL

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET T4



GALLATIN COUNTY
STATE OF MONTANA

2936-00119 Trail Cross Section
4/14/21
1:58:27 PM Nate Peressini

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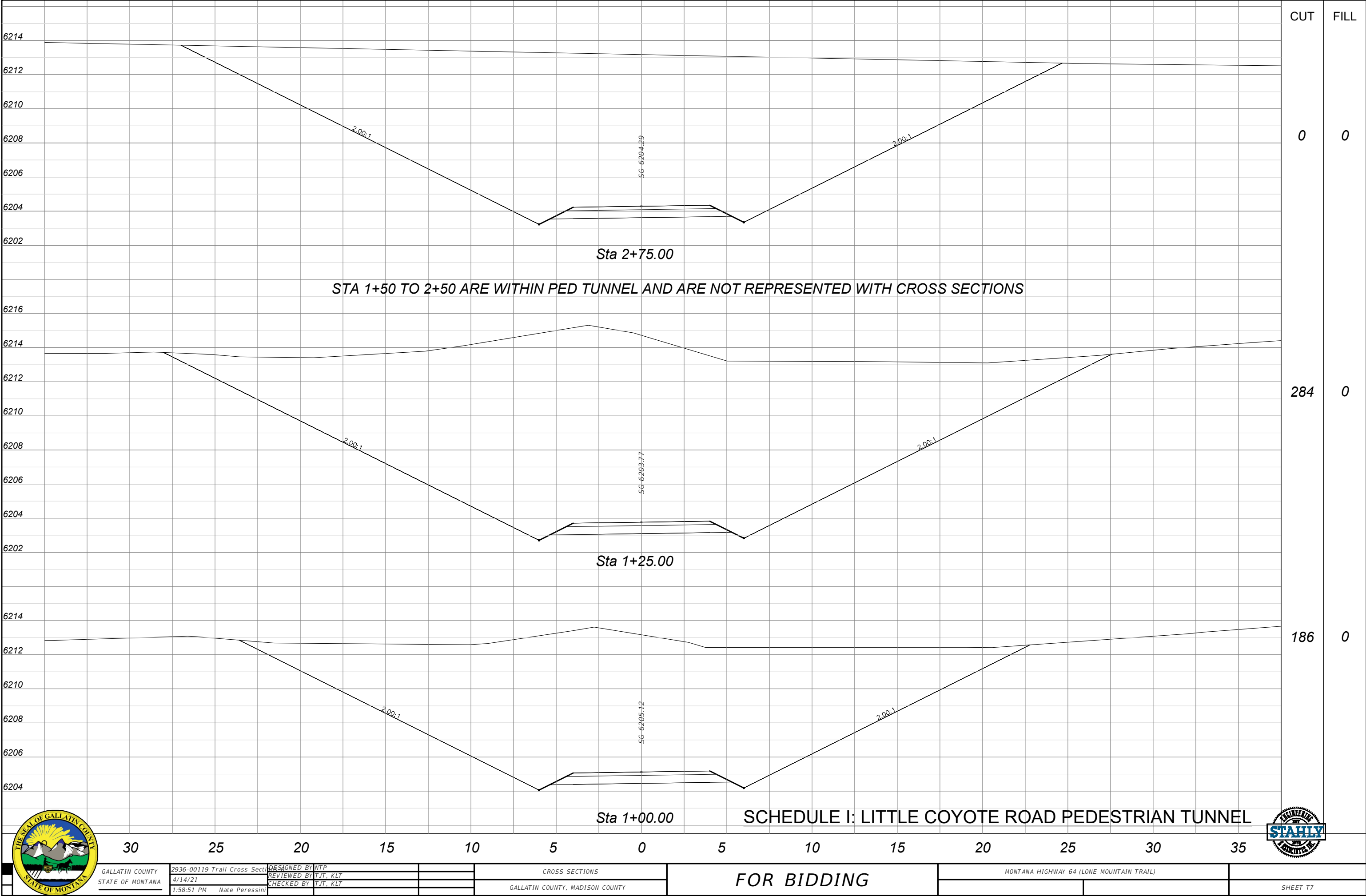
GALLATIN COUNTY, MADISON COUNTY

SCHEDULE I: LITTLE COYOTE ROAD PEDESTRIAN TUNNEL



FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



CUT FILL

0 0

284 0

186 0

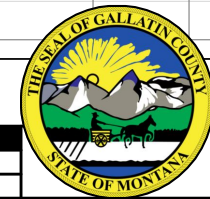
STA 1+50 TO 2+50 ARE WITHIN PED TUNNEL AND ARE NOT REPRESENTED WITH CROSS SECTIONS

Sta 2+75.00

Sta 1+25.00

Sta 1+00.00

SCHEDULE I: LITTLE COYOTE ROAD PEDESTRIAN TUNNEL



GALLATIN COUNTY
STATE OF MONTANA
2936-00119 Trail Cross Section
4/14/21
1:58:51 PM Nate Peressini

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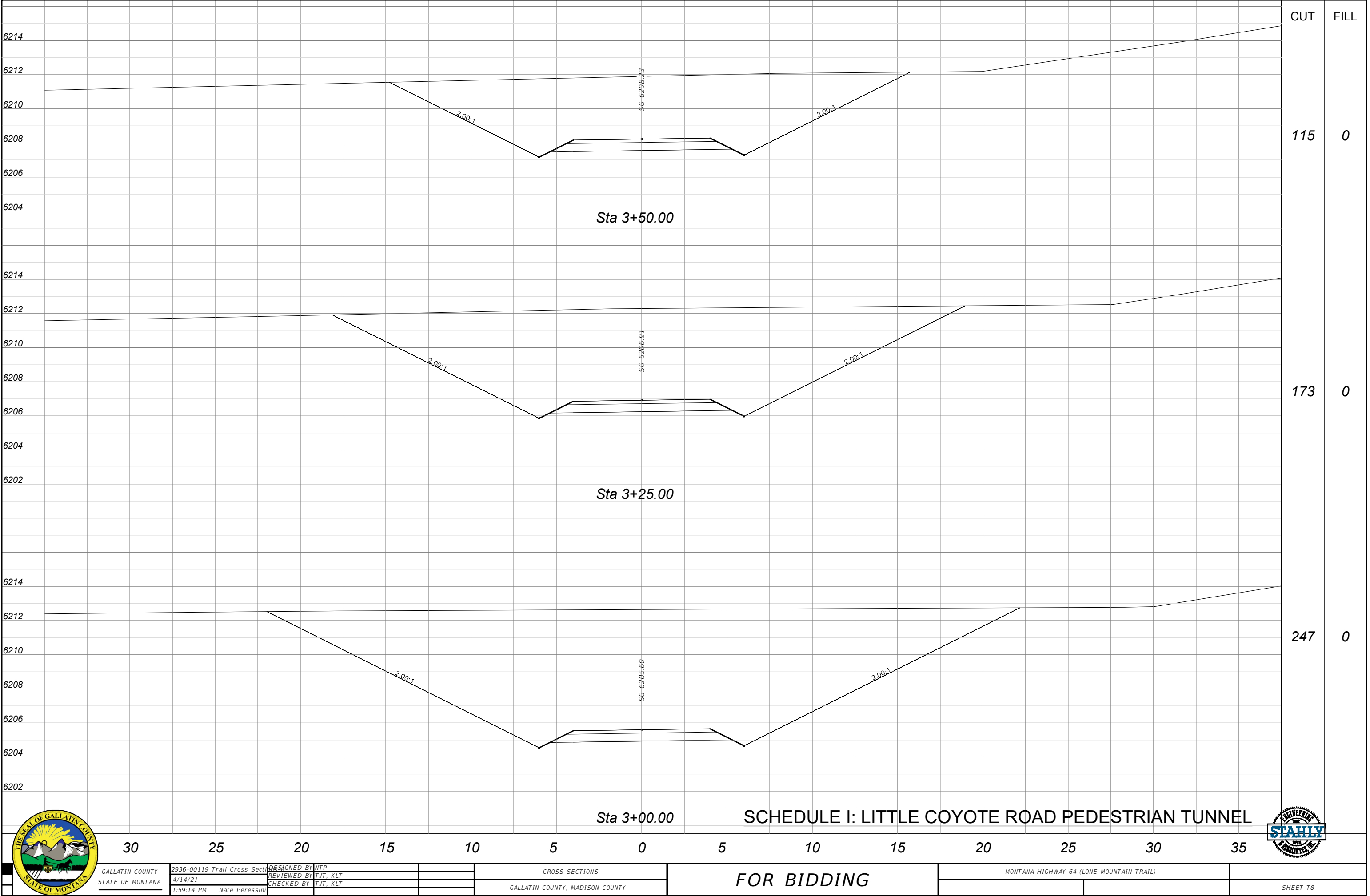
CROSS SECTIONS
GALLATIN COUNTY, MADISON COUNTY

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



SHEET T7



GALLATIN COUNTY
STATE OF MONTANA

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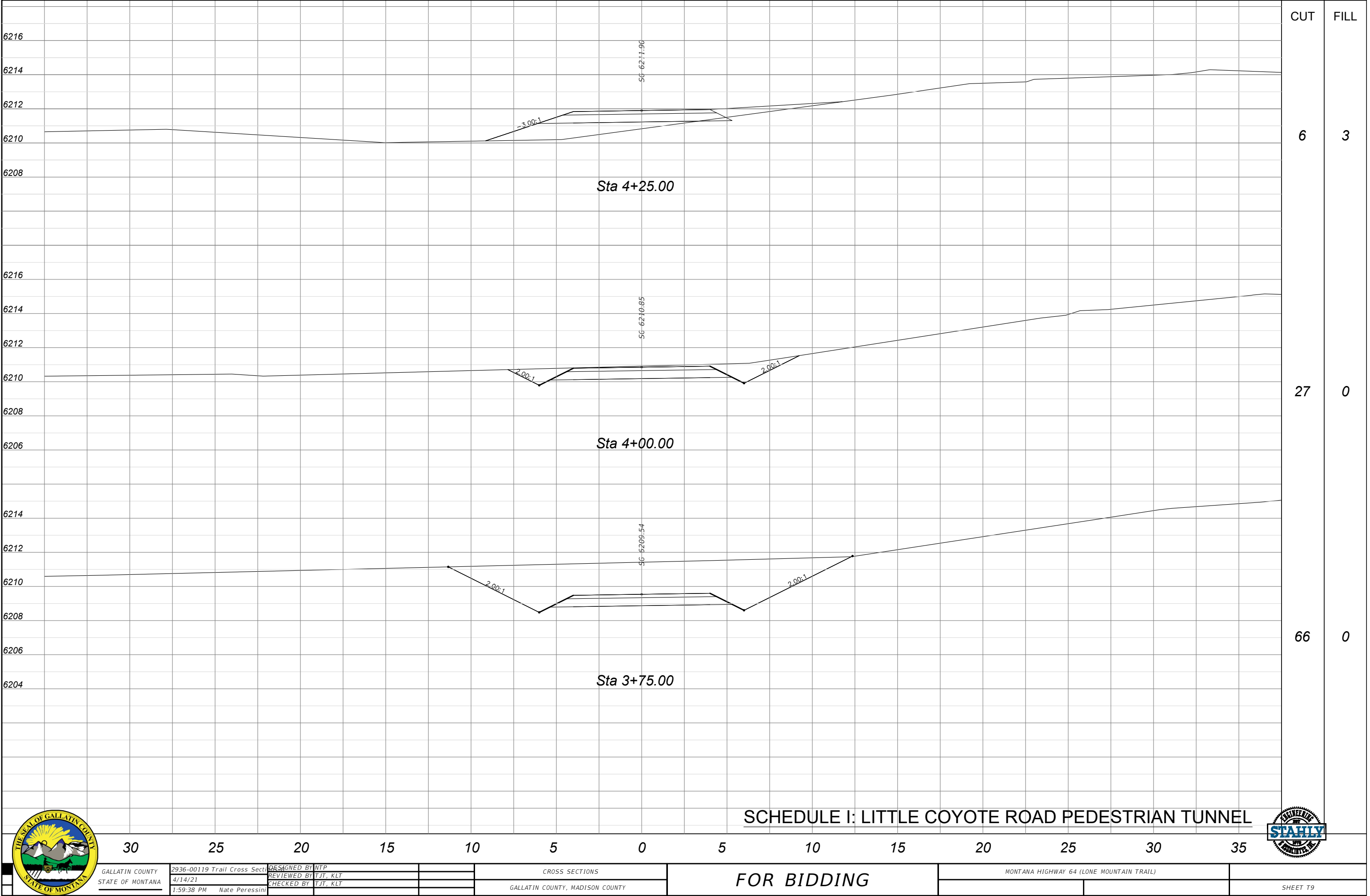
CROSS SECTIONS
GALLATIN COUNTY, MADISON COUNTY

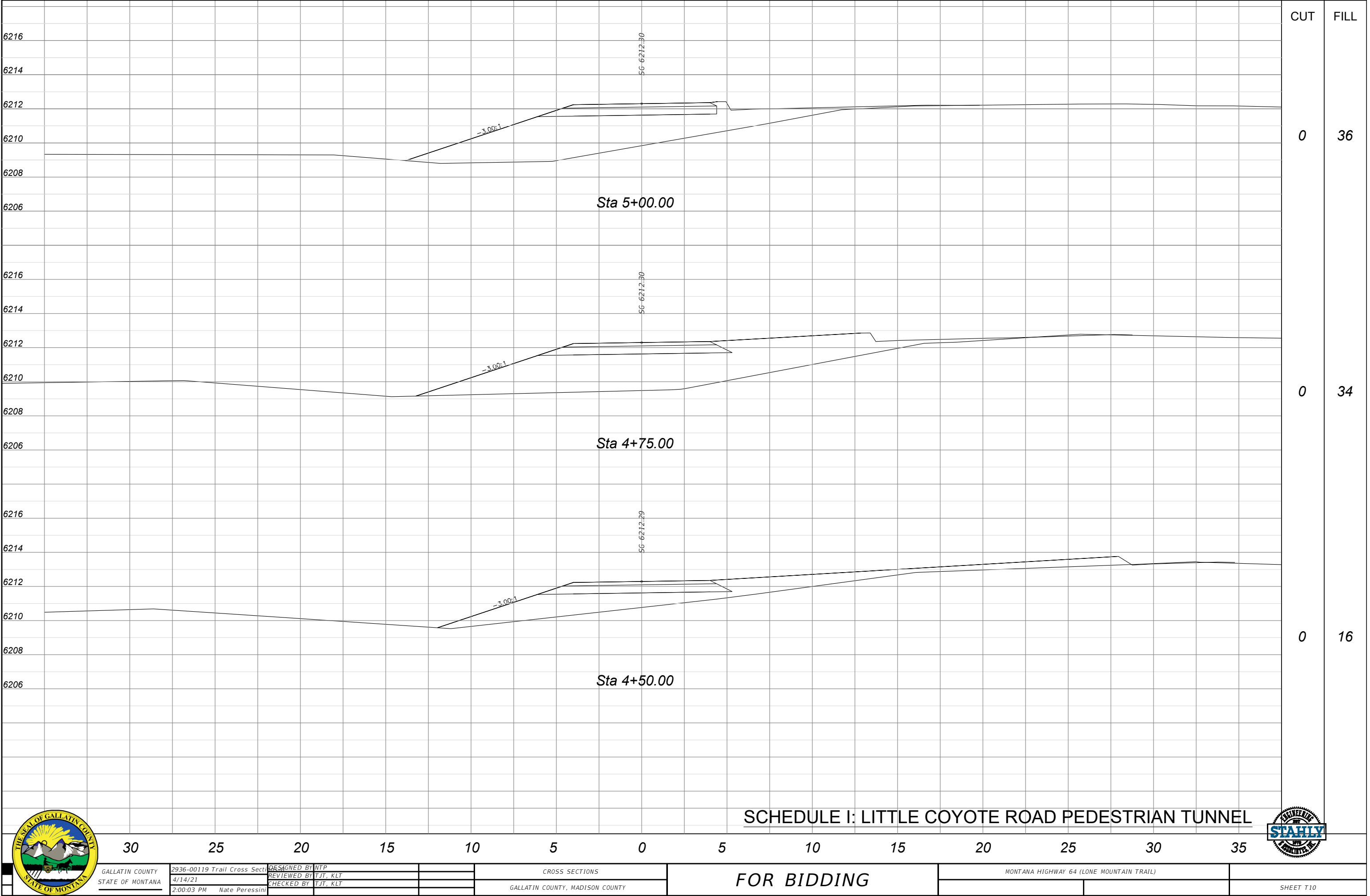
SCHEDULE I: LITTLE COYOTE ROAD PEDESTRIAN TUNNEL

FOR BIDDING



MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)
SHEET T8





GALLATIN COUNTY
STATE OF MONTANA
2936-00119 Trail Cross Section
4/14/21
2:00:03 PM Nate Peressini

DESIGNED BY NTP
REVIEWED BY TJT, KLT
CHECKED BY TJT, KLT

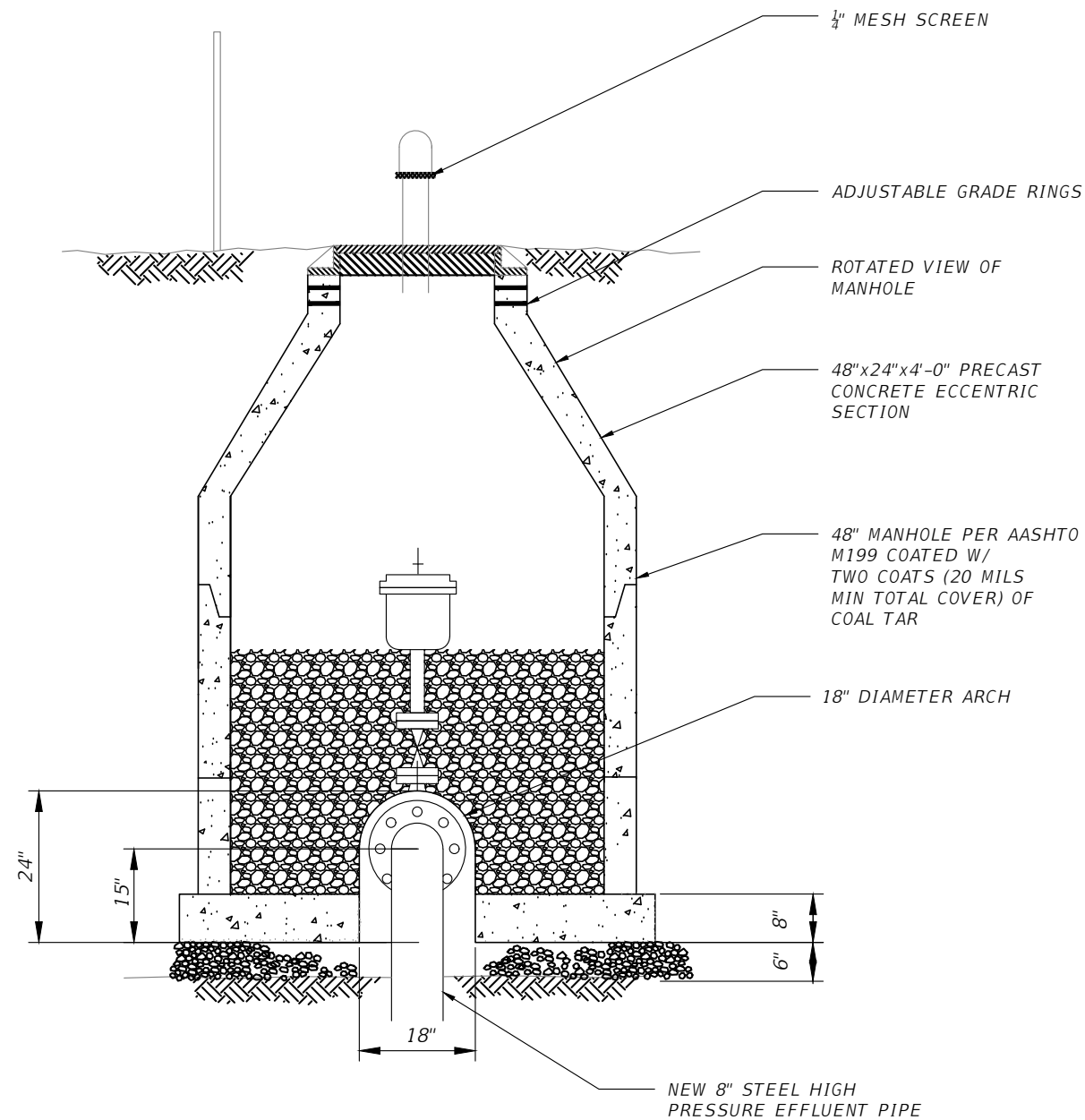
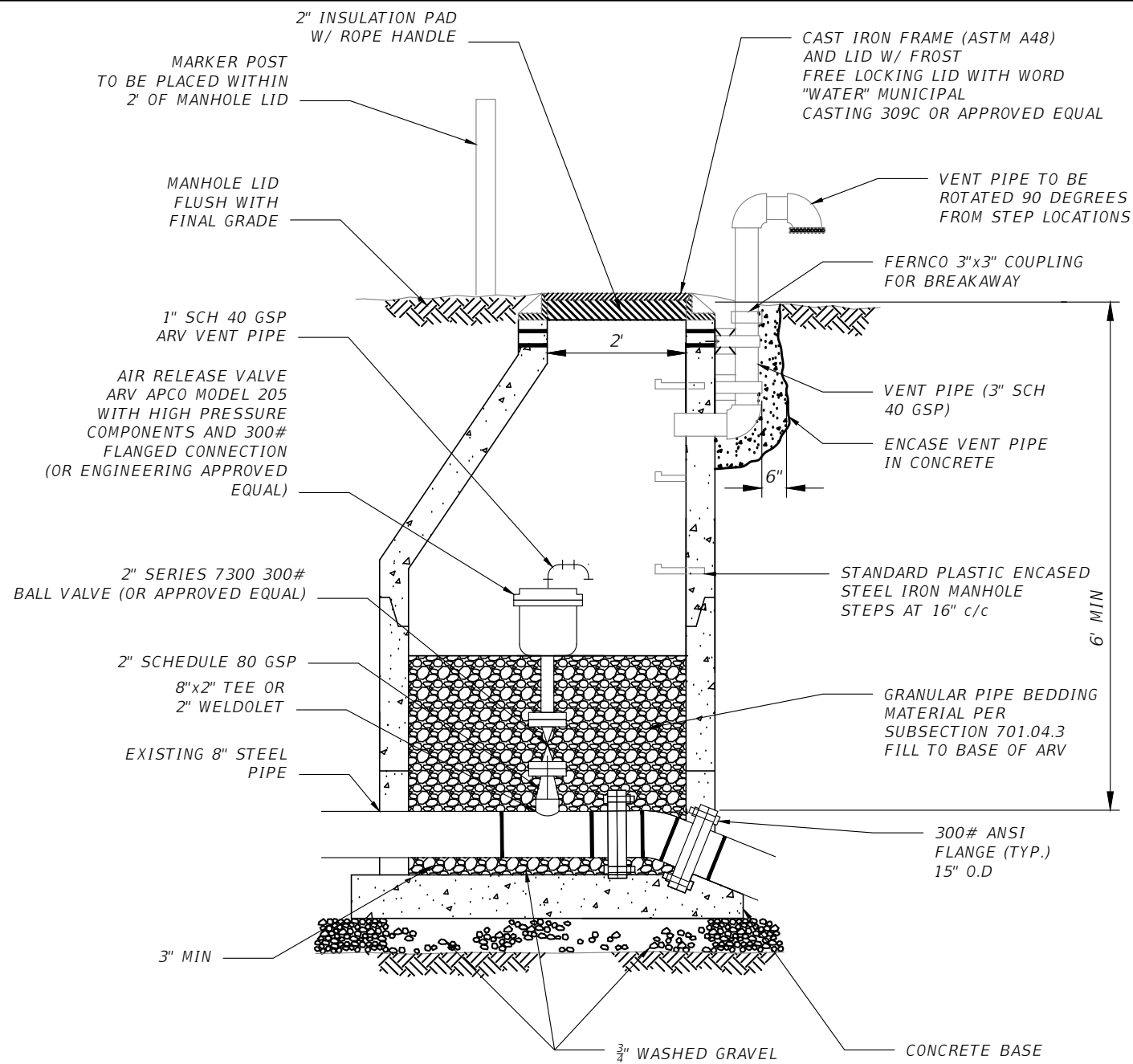
CROSS SECTIONS
GALLATIN COUNTY, MADISON COUNTY

SCHEDULE I: LITTLE COYOTE ROAD PEDESTRIAN TUNNEL



FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



AIR RELIEF VALVE DETAIL

NOT TO SCALE

AIR RELIEF VALVE NOTES:

1. BALL VALVE SHALL HAVE FLANGED CONNECTIONS MEETING ANSI CLASS 300. VALVE BODY, BALL, AND SEAT SHALL BE STAINLESS STEEL. VALVES SHALL BE STANDARD BORE VALVES WITH A WORKING PRESSURE OF 720 PSI. BALL VALVES SHALL BE JAMESBURY SERIES 7300, OR APPROVED EQUAL.
2. AIR RELEASE VALVE SHALL CONFORM TO AWWA C512.
3. HIGH PRESSURE VALVES SHALL HAVE END CONNECTIONS CAPABLE OF PROVIDING A MAXIMUM OPERATING PRESSURE OF 720 PSI.
4. AIR RELIEF VALVE EXTERIOR SHALL BE PRIMED.
5. MARKER POST TO BE CUM-375 COMPOSITE UTILITY MARKER BY CARSONITE OR APPROVED EQUAL. POST COLOR SHALL BE BLUE. MARKING TO READ "AIR RELEASE VALVE" IN UV INHIBITED LETTERING. BASE OF MARKER POST SHALL BE BURIED 18".

6. A 6'x6' CONCRETE INSULATION BLANKET SHALL BE INCLUDED. THE BLANKET SHALL BE SECURED TO THE VALVE ASSEMBLY WITH BUNGEE CORD UPON COMPLETION.



GALLATIN COUNTY
STATE OF MONTANA

2936-00119 FORCE MAIN DETAILS
4/14/21
2:00:19 PM Nate Peressini

DESIGNED BY CDP
REVIEWED BY NTP
CHECKED BY NTP

HIGH PRESSURE EFFLUENT PIPELINE DETAILS
GALLATIN COUNTY, MADISON COUNTY

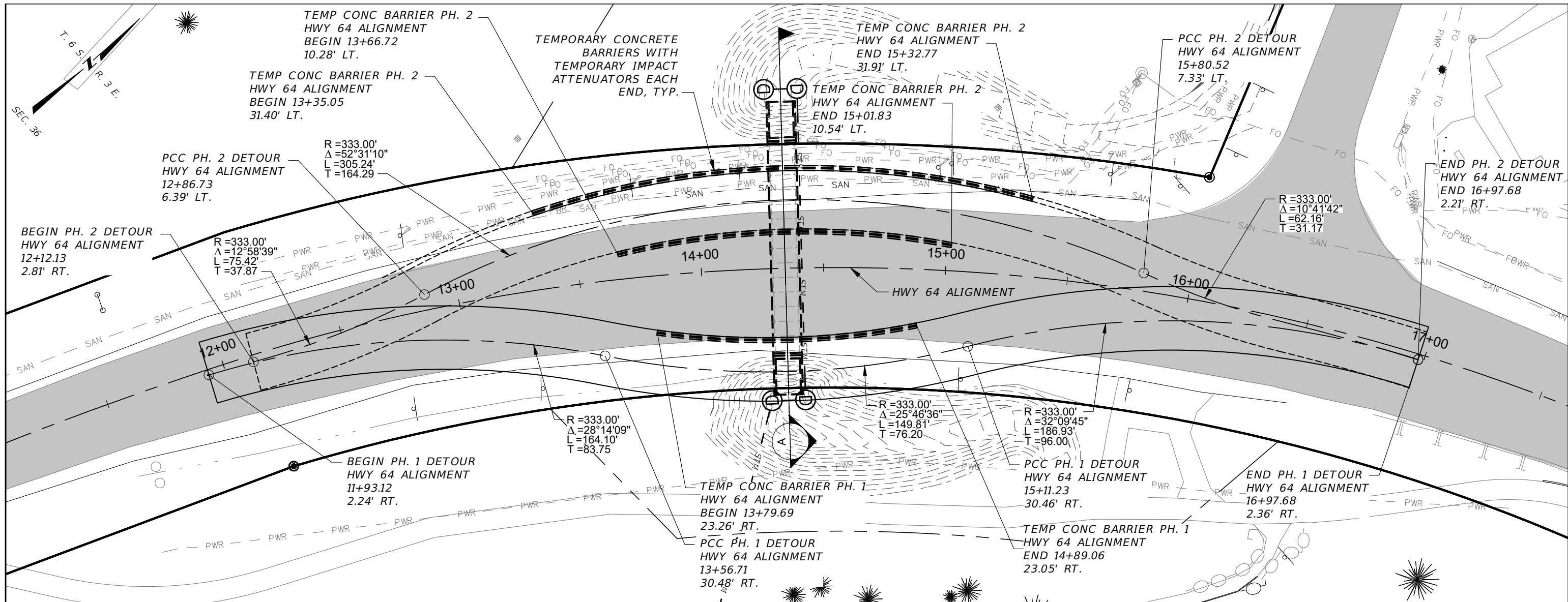
SCHEDULE I: LITTLE COYOTE ROAD PEDESTRIAN TUNNEL

FOR BIDDING

MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)



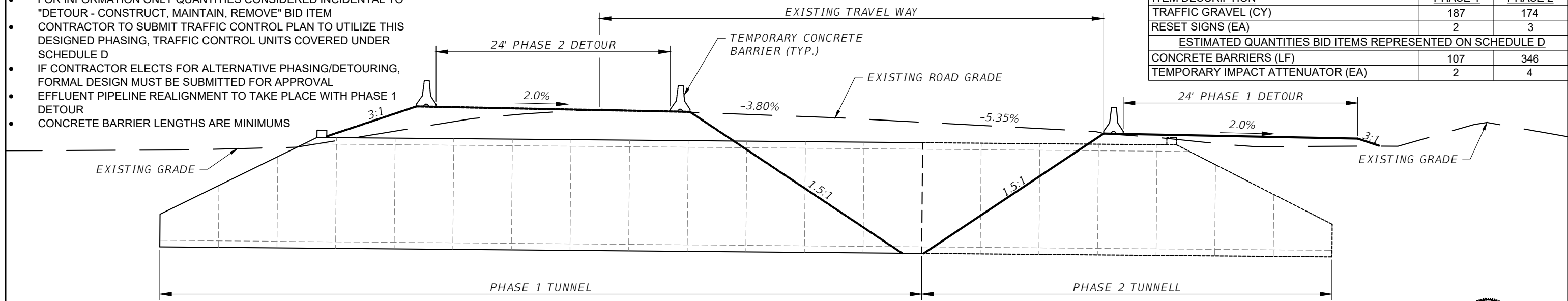
SHEET T12



NOTES:

- FOR INFORMATION ONLY QUANTITIES CONSIDERED INCIDENTAL TO "DETOUR - CONSTRUCT, MAINTAIN, REMOVE" BID ITEM
- CONTRACTOR TO SUBMIT TRAFFIC CONTROL PLAN TO UTILIZE THIS DESIGNED PHASING, TRAFFIC CONTROL UNITS COVERED UNDER SCHEDULE D
- IF CONTRACTOR ELECTS FOR ALTERNATIVE PHASING/DETOURING, FORMAL DESIGN MUST BE SUBMITTED FOR APPROVAL
- EFFLUENT PIPELINE REALIGNMENT TO TAKE PLACE WITH PHASE 1 DETOUR
- CONCRETE BARRIER LENGTHS ARE MINIMUMS

FOR INFORMATION ONLY ESTIMATED QUANTITIES		
ITEM DESCRIPTION	PHASE 1	PHASE 2
TRAFFIC GRAVEL (CY)	187	174
RESET SIGNS (EA)	2	3
ESTIMATED QUANTITIES BID ITEMS REPRESENTED ON SCHEDULE D		
CONCRETE BARRIERS (LF)	107	346
TEMPORARY IMPACT ATTENUATOR (EA)	2	4



A SECTION A - DETOUR SECTION



25 MPH DESIGN SPEED OF DETOUR

SCHEDULE I: LITTLE COYOTE ROAD PEDESTRIAN TUNNEL



GALLATIN COUNTY STATE OF MONTANA		2936-00119_Detour 4/14/21 2:02:05 PM Nate Peressini	DESIGNED BY NTP REVIEWED BY TJT, KLT, JMN CHECKED BY TJT, KLT, JMN	TUNNEL PHASING PLAN GALLATIN COUNTY, MADISON COUNTY	FOR BIDDING	MONTANA HIGHWAY 64 (LONE MOUNTAIN TRAIL)	SHEET T14
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