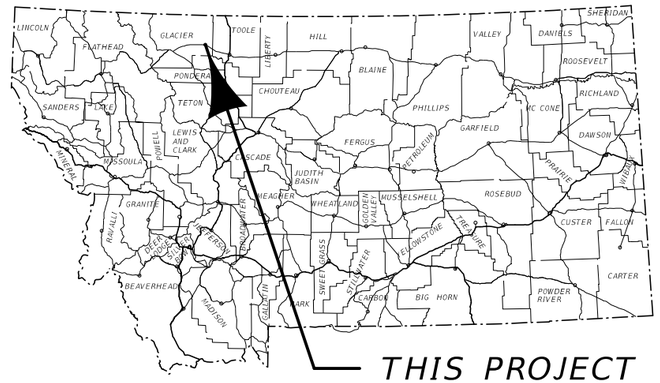
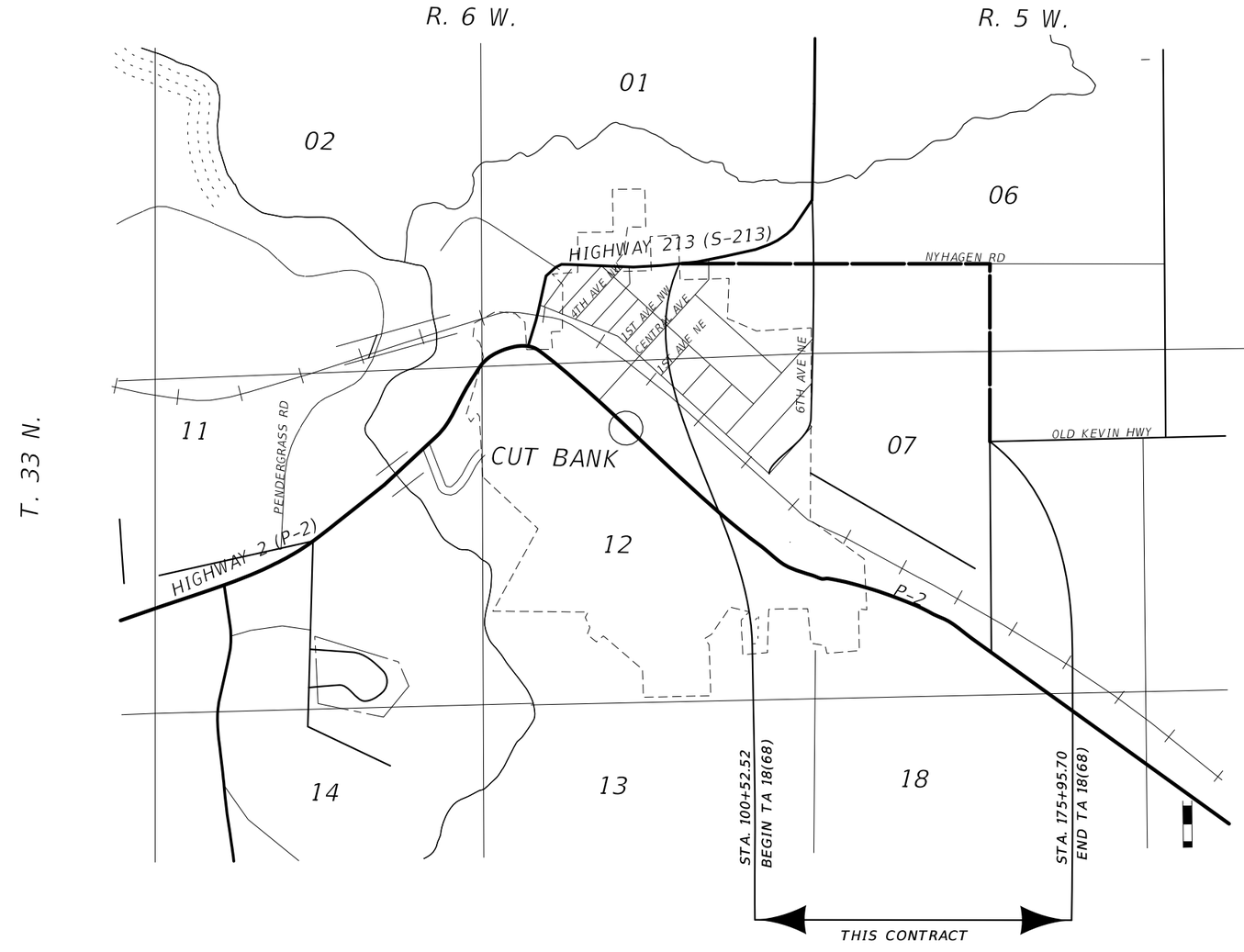
AWARD COPY

MONTANA DEPARTMENT OF TRANSPORTATION



FEDERAL AID TA 18(68)
BICYCLE/PEDESTRIAN PATH
NYHAGEN RD PATH - CUT BANK
GLACIER COUNTY
EROSION CONTROL PLANS

LENGTH 1.4 MILES



3	MONTANA Department of Transportation	...\9441000\RD\9441000RDEP
2		7/23/2024
		1:23:33 PM kedam

EROSION AND SEDIMENT CONTROL BMP'S

REFER TO THE MOST CURRENT RELEASE OF MDT'S EROSION & SEDIMENT CONTROL BMP MANUAL

PEV (SS-1) SHOULD BE IDENTIFIED AND USED THROUGHOUT THE ENTIRE PROJECT IN ALL AREAS NOT DISTURBED BY CONSTRUCTION

TS (SS-3) AND ES (SS-4) SHOULD BE UTILIZED THROUGHOUT THE ENTIRE PROJECT

GENERAL BMP'S

- I/O — INLET/OUTLET PROTECTION
- WP — WATERWAY PROTECTION
- WR — WATER RESOURCE PROTECTION

TEMPORARY SOIL STABILIZATION BMP'S (SS)

- PEV — PRESERVATION OF EXISTING VEGETATION (SS-1)
- MC — MULCH COVER (SS-2)
- TS — TEMPORARY SEEDING (SS-3)
- ES — EROSION SEEDING (SS-4)
- SB — SOIL BINDERS (SS-5)
- REC — ROLLED EROSION CONTROL PRODUCTS (SS-6)
- SR — SURFACE ROUGHENING (SS-7)
- WE — WIND EROSION CONTROL (SS-8)

RUN-ON AND RUNOFF CONTROL (RC)

- ED/LD — EARTH DIKES/DRAINAGE SWALES/LINED DITCHES (RC-1)
- OVDD — OUTLET VELOCITY DISSIPATION DEVICES (RC-2)
- TSD — TEMPORARY SLOPE DRAINS (RC-3)

TEMPORARY SEDIMENT CONTROL BMP'S (SC)

- SF — SILT FENCE (SC-1)
- DB — DESILTING BASIN (SC-2)
- ST — SEDIMENT TRAP (SC-3)
- CD — CHECK DAMS (SC-4)
- DDB — DUGOUT DITCH BASIN (SC-5)
- FR — FIBER ROLLS (SC-6)
- CS — COMPOST SOCKS (SC-7)
- BB — BRUSH BARRIER (SC-8)
- SAND-B — SANDBAG BARRIER (SC-9)
- GBB — GRAVEL BAG BERM (SC-10)
- RB — ROCK FILTER BERM (SC-11)
- I/O — INLET/OUTLET PROTECTION (SC-12)

TRACKING CONTROL BMP'S (TC)

- SCEE — STABILIZED CONSTRUCTION ENTRANCE/EXIT (SC-13)
- SCR — STABILIZED CONSTRUCTION ROADWAY (SC-14)
- EOTW — ENTRANCE/OUTLET TIRE WASH (SC-15)

THE FOLLOWING BMP ALTERNATIVES ARE NOT COMPREHENSIVE AND DO NOT SUPERSEDE MDT CONTRACT REQUIREMENTS OR MANDATES AND REQUIREMENTS SPECIFIED BY OTHER AUTHORIZED LOCAL, STATE, AND FEDERAL AGENCIES.

I/O INLET/OUTLET PROTECTION

REC, FR, ED/LD, CS, RB, GBB, SAND-B, OVDD

WR WATER RESOURCE PROTECTION

FR, SF, REC, PEV, GBB, ES, TS, SAND-B, OVDD, I/O, TSD, RB

DT DITCH TREATMENT

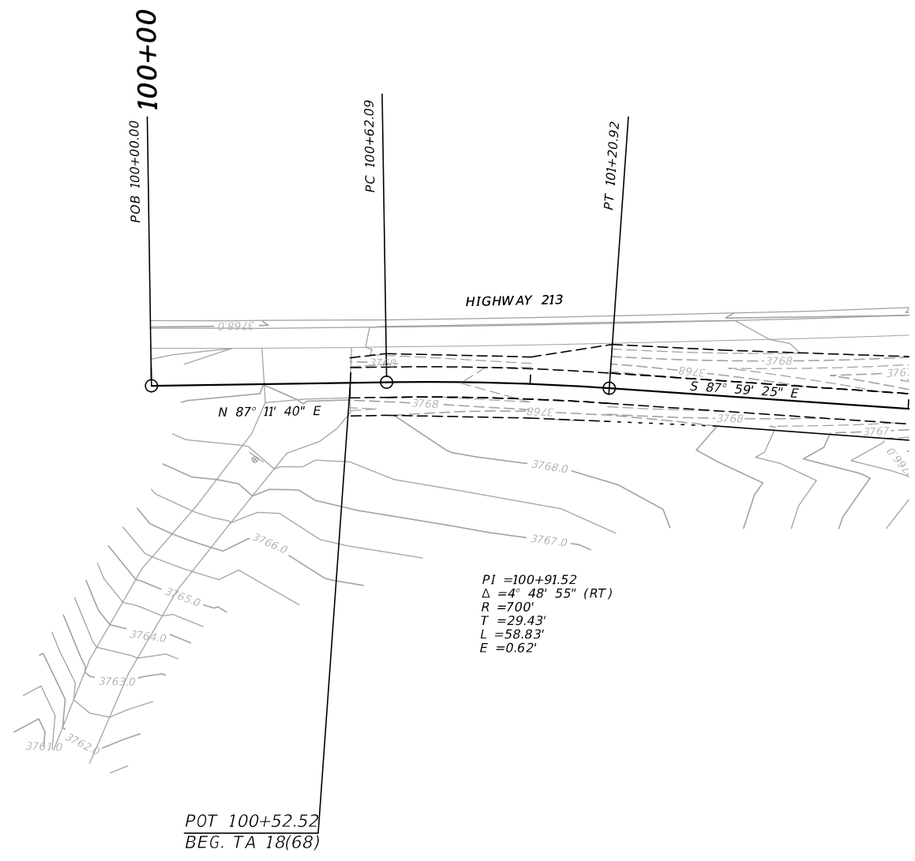
TS, CD, OVDD, REC, SAND-B, ED/LD, GBB, DDB, TSD, CS

NOTE: BMP STATIONING IS APPROXIMATE

CONSTRUCTION LIMITS:
CUT SECTION
TOE OF FILL

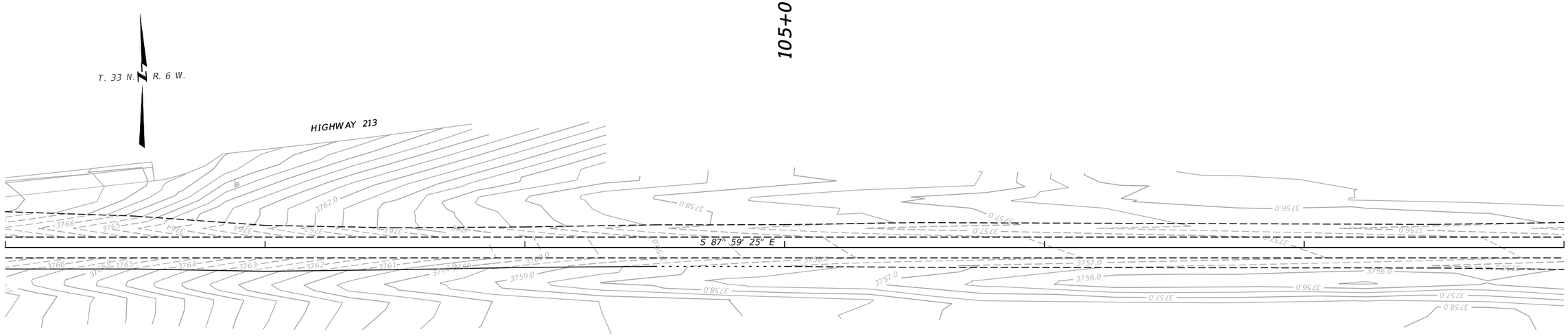
3 1	MONTANA Department of Transportation	...\9441000\RD\9441000RDER01.DGN 7/23/2024 1:23:34 PM kedam	DESIGNED BY REVIEWED BY CHECKED BY		EROSION CONTROL PLANS GLACIER COUNTY		NYHAGEN RD PATH - CUT BANK UPN 9441000	TA 18(68) 2

NOTE: BMP STATIONING IS APPROXIMATE
CONTOUR INTERVAL = 0.5 ft



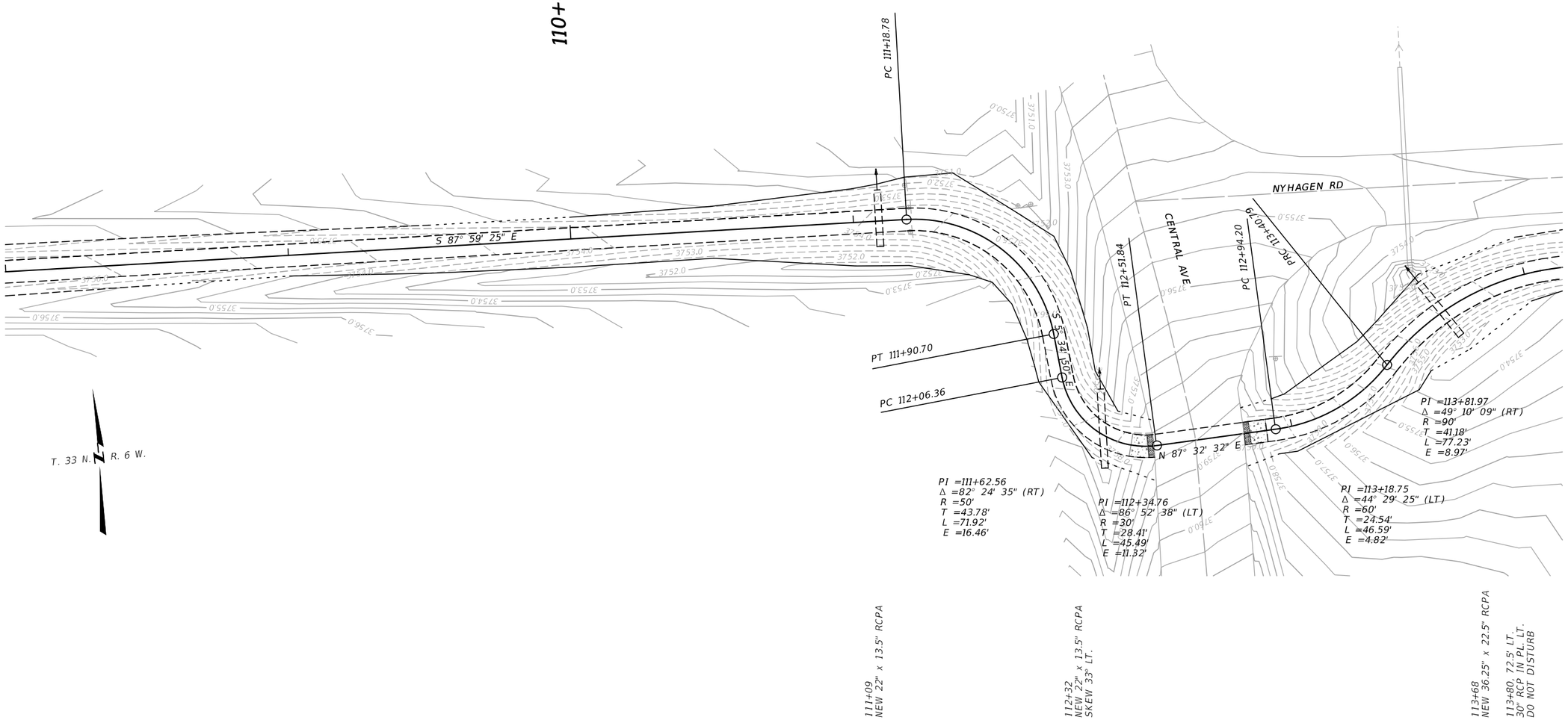
3	MONTANA Department of Transportation	...\9441000\RD\9441000RDERO2Z01.dgn			EROSION CONTROL PLANS		NYHAGEN RD PATH - CUT BANK	TA 18(68)
2		7/23/2024			GLACIER COUNTY		UPN 9441000	3
		1:23:37 PM kedam						

NOTE: BMP STATIONING IS APPROXIMATE
CONTOUR INTERVAL = 0.5 ft



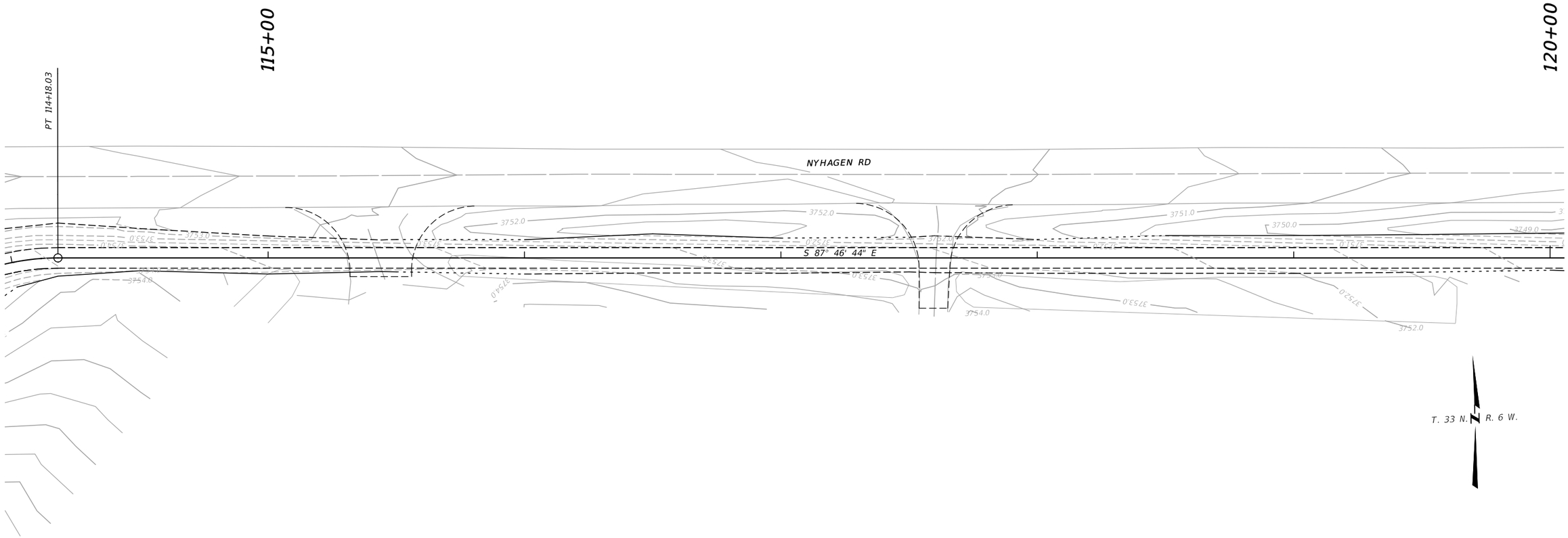
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1		7/23/2024			GLACIER COUNTY		UPN 9441000	4
		1:23:37 PM kedam						

NOTE: BMP STATIONING IS APPROXIMATE
CONTOUR INTERVAL = 0.5 ft



AWARD COPY

NOTE: BMP STATIONING IS APPROXIMATE
CONTOUR INTERVAL = 0.5 ft



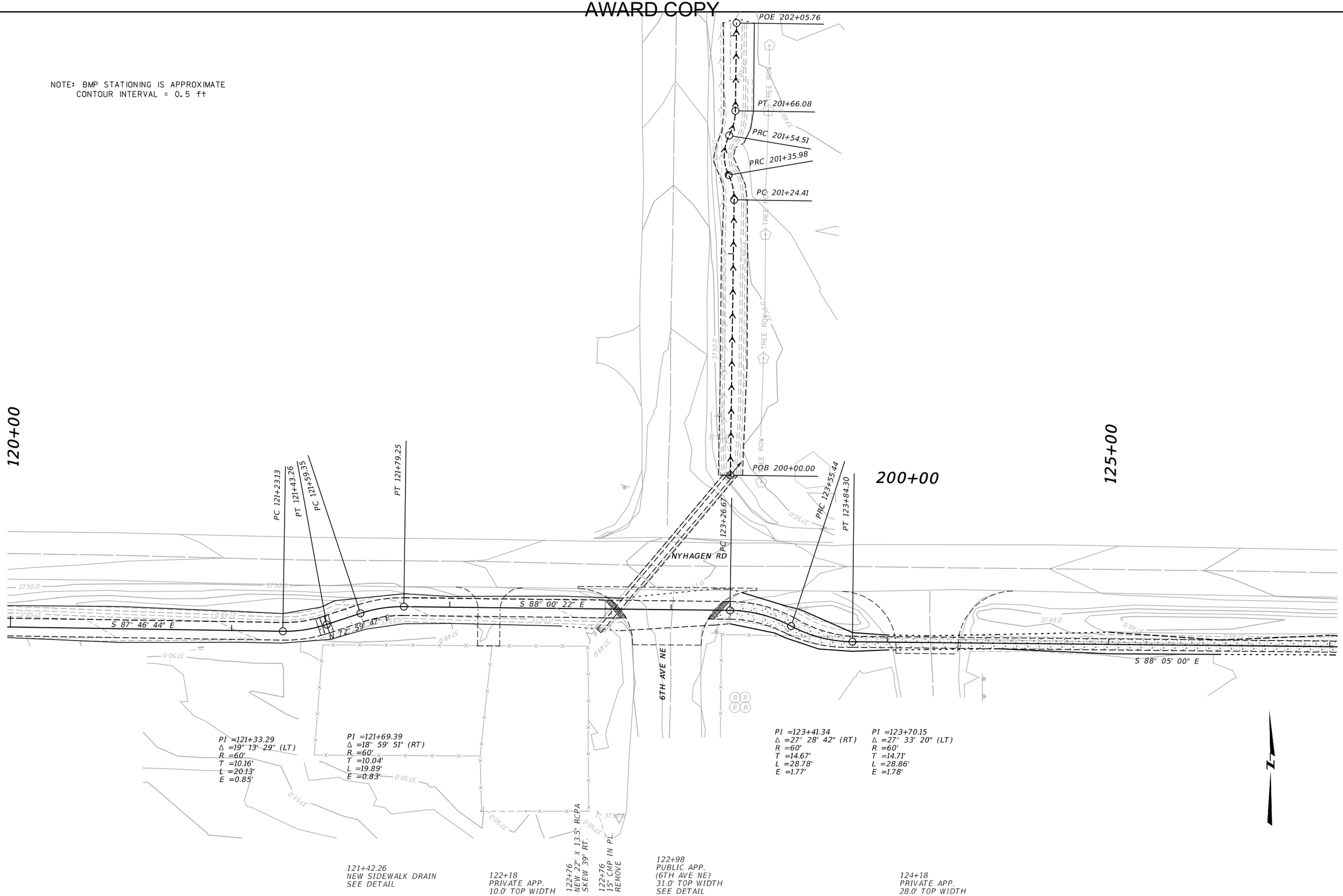
115+44
PRIVATE APP.
24.0' TOP WIDTH

117+60
PRIVATE APP.
12.0' TOP WIDTH

3	MONTANA Department of Transportation	...\9441000\RD\9441000RDEROZ02.dgn			EROSION CONTROL PLANS		NYHAGEN RD PATH - CUT BANK	TA 18(68)
2		7/23/2024			GLACIER COUNTY		UPN 9441000	6
		1:23:40 PM kedam						

AWARD COPY

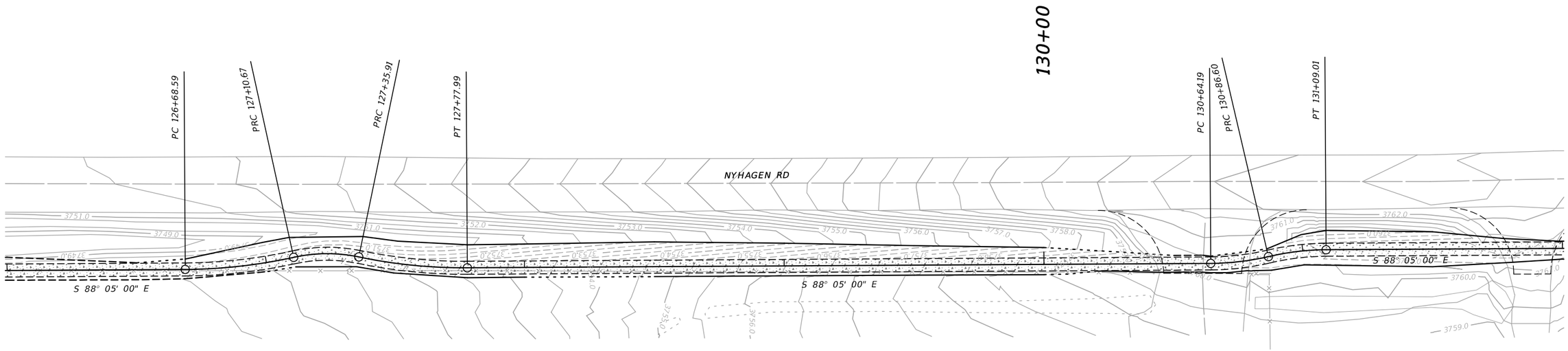
NOTE: BMP STATIONING IS APPROXIMATE
CONTOUR INTERVAL = 0.5 ft



3	MONTANA Department of Transportation	...\9441000\RD\9441000RDEROZ02.dgn			EROSION CONTROL PLANS		NYHAGEN RD PATH – CUT BANK	TA 18(68)
1		7/23/2024			GLACIER COUNTY		UPN 9441000	7
		1:23:41 PM kedam						

AWARD COPY

NOTE: BMP STATIONING IS APPROXIMATE
CONTOUR INTERVAL = 0.5 ft



PI =126+89.70
Δ =12° 03' 18" (LT)
R =200'
T =21.12'
L =42.08'
E =1.11'

PI =127+23.48
Δ =24° 06' 36" (RT)
R =60'
T =12.81'
L =25.25'
E =1.35'

PI =127+57.03
Δ =12° 03' 18" (LT)
R =200'
T =21.12'
L =42.08'
E =1.11'

T. 33 N. R. 5 W.

PI =130+75.45
Δ =12° 50' 19" (LT)
R =100'
T =11.25'
L =22.41'
E =0.63'

PI =130+97.85
Δ =12° 50' 19" (RT)
R =100'
T =11.25'
L =22.41'
E =0.63'

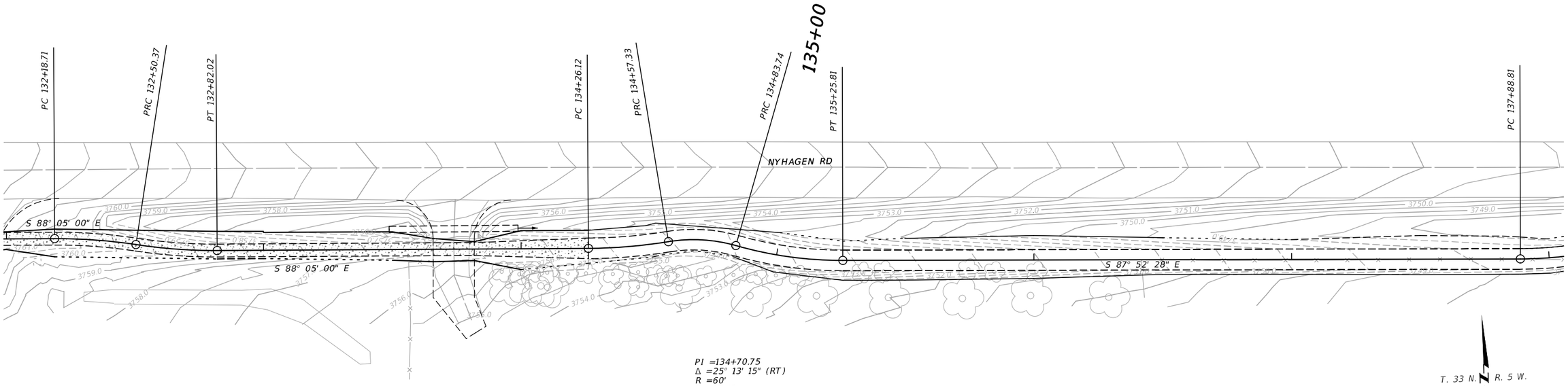
130+61
PRIVATE APP.
30.0' TOP WIDTH

131+89
PRIVATE APP.
14.3' TOP WIDTH

2	MONTANA Department of Transportation	...\9441000\RD\9441000RDER02.dgn			EROSION CONTROL PLANS		NYHAGEN RD PATH – CUT BANK	TA 18(68)
1		7/23/2024			GLACIER COUNTY		UPN 9441000	8
		1:23:42 PM kedam						

AWARD COPY

NOTE: BMP STATIONING IS APPROXIMATE
CONTOUR INTERVAL = 0.5 ft



PI =132+34.57
Δ =9° 04' 07" (RT)
R =200'
T =15.86'
L =31.66'
E =0.63'

PI =132+66.23
Δ =9° 04' 07" (LT)
R =200'
T =15.86'
L =31.66'
E =0.63'

PI =134+70.75
Δ =25° 13' 15" (RT)
R =60'
T =13.42'
L =26.41'
E =1.48'

PI =134+41.75
Δ =8° 56' 26" (LT)
R =200'
T =15.64'
L =31.21'
E =0.61'

PI =135+04.91
Δ =16° 04' 17" (LT)
R =150'
T =21.18'
L =42.07'
E =1.49'

T. 33 N. R. 5 W.

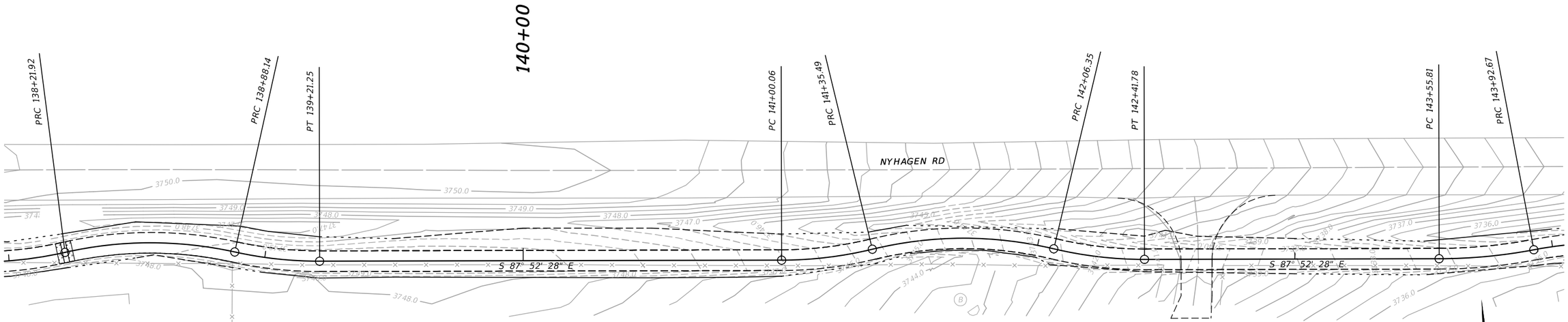
133+74
NEW 22" X 13.5" RCPA APP. PIPE LT.
133+74, 3.4' LT.
18" CMP IN PL. LT.
REMOVE

133+74
PRIVATE APP.
16.0' TOP WIDTH

3 2	MONTANA Department of Transportation	...\9441000\RD\9441000RDEROZ03.dgn 7/23/2024 1:23:44 PM kedam		EROSION CONTROL PLANS GLACIER COUNTY		NYHAGEN RD PATH - CUT BANK UPN 9441000	TA 18(68) 9

AWARD COPY

NOTE: BMP STATIONING IS APPROXIMATE
CONTOUR INTERVAL = 0.5 ft



PI =138+05.43
Δ =12° 38' 48" (LT)
R =150'
T =16.62'
L =33.11'
E =0.92'

PI =138+55.58
Δ =25° 17' 36" (RT)
R =150'
T =33.66'
L =66.22'
E =3.73'

PI =139+04.76
Δ =12° 38' 48" (LT)
R =150'
T =16.62'
L =33.11'
E =0.92'

PI =141+17.86
Δ =13° 32' 00" (LT)
R =150'
T =17.80'
L =35.43'
E =1.05'

PI =141+71.59
Δ =27° 03' 59" (RT)
R =150'
T =36.10'
L =70.86'
E =4.28'

PI =142+24.15
Δ =13° 31' 59" (LT)
R =150'
T =17.80'
L =35.43'
E =1.05'

PI =143+74.29
Δ =10° 33' 34" (LT)
R =200'
T =18.48'
L =36.86'
E =0.85'

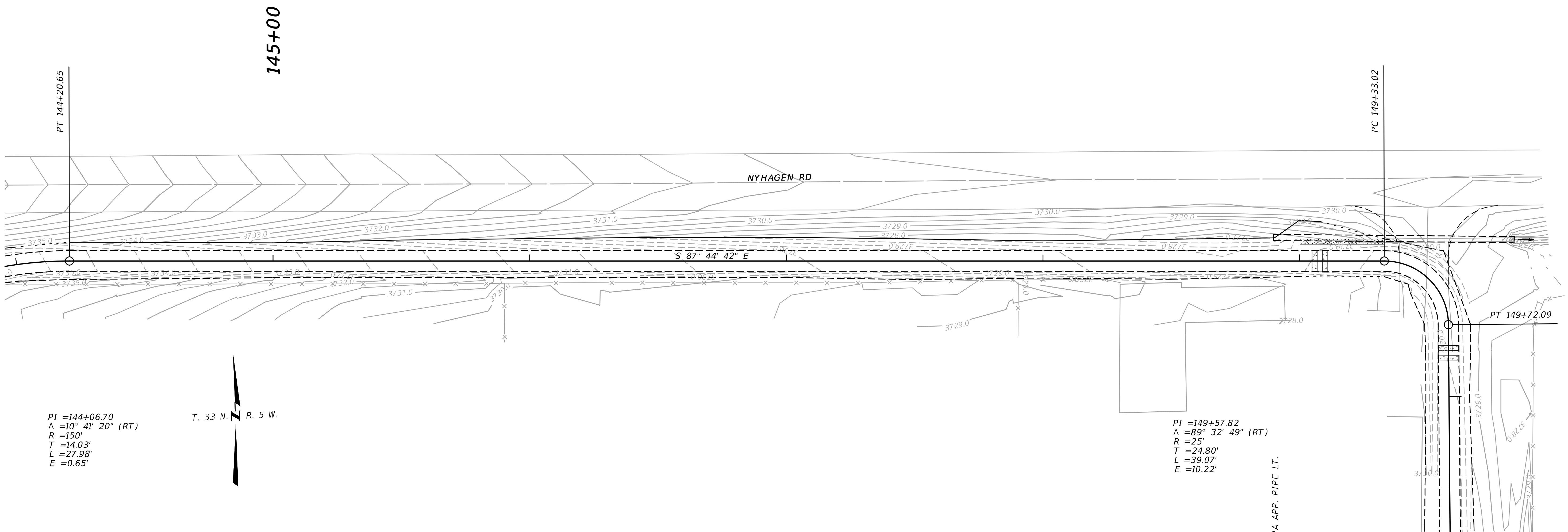
138+21.92
NEW SIDEWALK DRAIN
SEE DETAIL

142+62
PRIVATE APP.
12.0' TOP WIDTH

3 1	MONTANA Department of Transportation	...\9441000\RD\9441000RDER0Z03.dgn 7/23/2024 1:23:45 PM kedam			EROSION CONTROL PLANS GLACIER COUNTY		NYHAGEN RD PATH - CUT BANK UPN 9441000	TA 18(68) 10

AWARD COPY

NOTE: BMP STATIONING IS APPROXIMATE
CONTOUR INTERVAL = 0.5 ft



149+44
NEW 22" x 13.5" RCPA APP. PIPE LT.

149+44
18" CMP IN PL. LT.
REMOVE

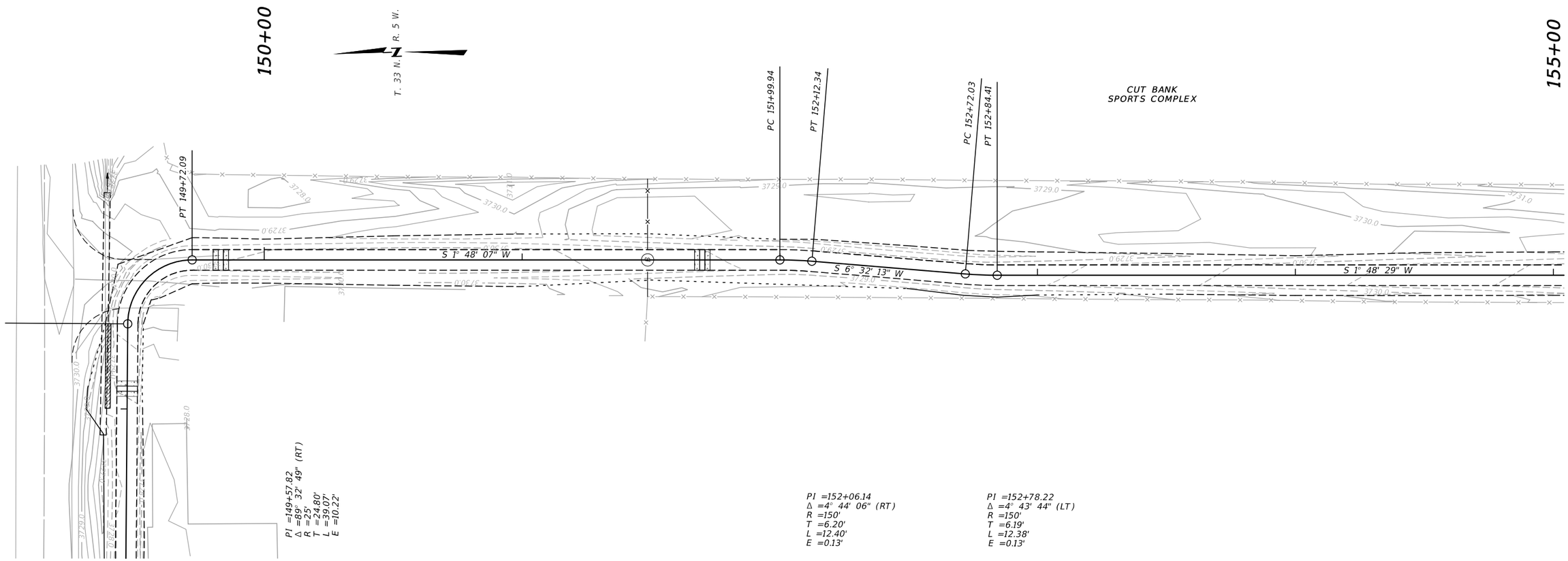
149+46
PRIVATE APP.
19.1' TOP WIDTH

149+07.87
NEW SIDEWALK DRAIN
SEE DETAIL

149+00.20 TO 149+33.02
NEW EROSION CONTROL BLANKET LT.

MONTANA Department of Transportation	...\9441000\RD\9441000RDEP0Z03.dgn 7/23/2024 1:23:45 PM kedam	EROSION CONTROL PLANS GLACIER COUNTY	NYHAGEN RD PATH - CUT BANK UPN 9441000
2 1			TA 18(68) 11

NOTE: BMP STATIONING IS APPROXIMATE
CONTOUR INTERVAL = 0.5 ft



AWARD COPY

NOTE: BMP STATIONING IS APPROXIMATE
CONTOUR INTERVAL = 0.5 ft

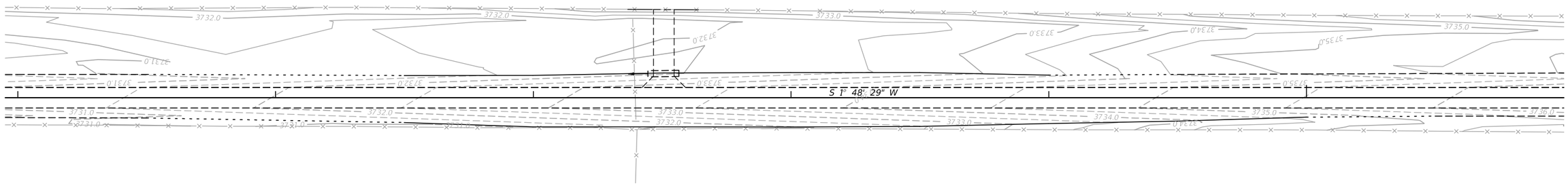
155+00

T. 33 N. R. 5 W.

CUT BANK
SPORTS COMPLEX

160+00

CUT BANK SCHOOL DISTRICT



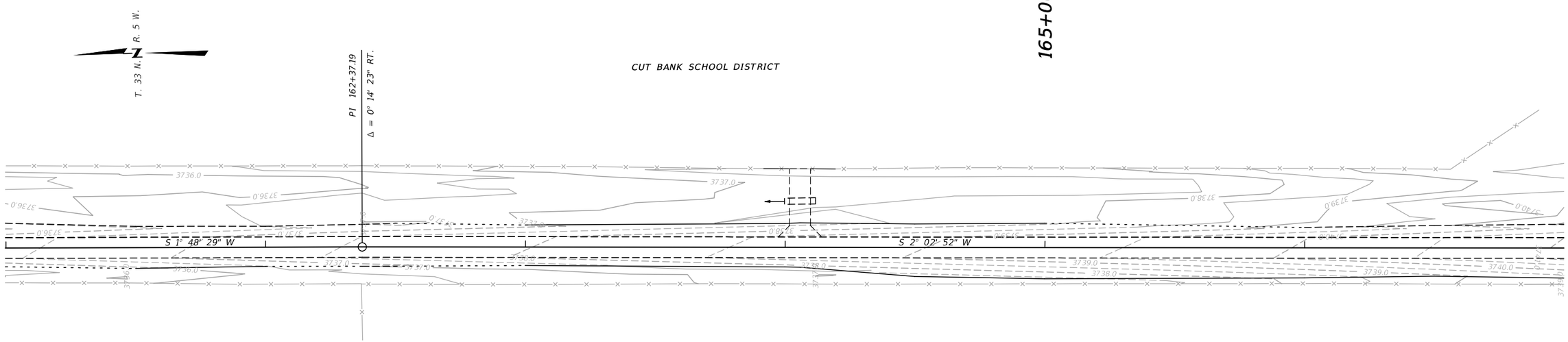
157+51
NEW 6" PVC APP. PIPE LT.

157+51 LT.
NEW PATH CONNECTION
8.0' TOP WIDTH
SEE DETAIL

3 1	MONTANA Department of Transportation	...\9441000\RD\9441000RDER0Z04.dgn 7/23/2024 1:23:48 PM kedam			EROSION CONTROL PLANS GLACIER COUNTY		NYHAGEN RD PATH - CUT BANK UPN 9441000	TA 18(68) 13

AWARD COPY

NOTE: BMP STATIONING IS APPROXIMATE
CONTOUR INTERVAL = 0.5 ft

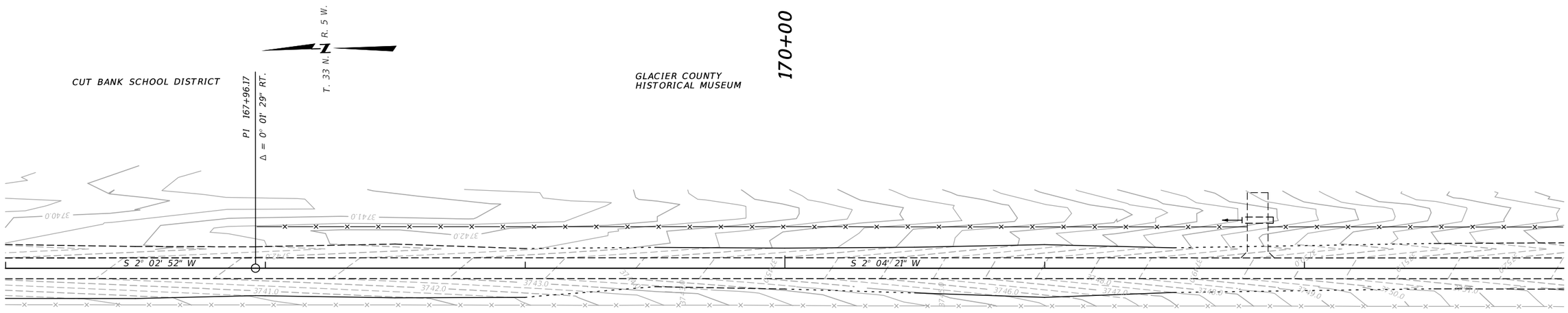


164+06
NEW 6" PVC APP. PIPE LT.

164+06 LT.
NEW PATH CONNECTION
8.0' TOP WIDTH
SEE DETAIL

2	MONTANA Department of Transportation	...\9441000\RD\9441000RDEROZ04.dgn			EROSION CONTROL PLANS		NYHAGEN RD PATH - CUT BANK	TA 18(68)
1		7/23/2024			GLACIER COUNTY		UPN 9441000	14
		1:23:49 PM kedam						

NOTE: BMP STATIONING IS APPROXIMATE
CONTOUR INTERVAL = 0.5 ft

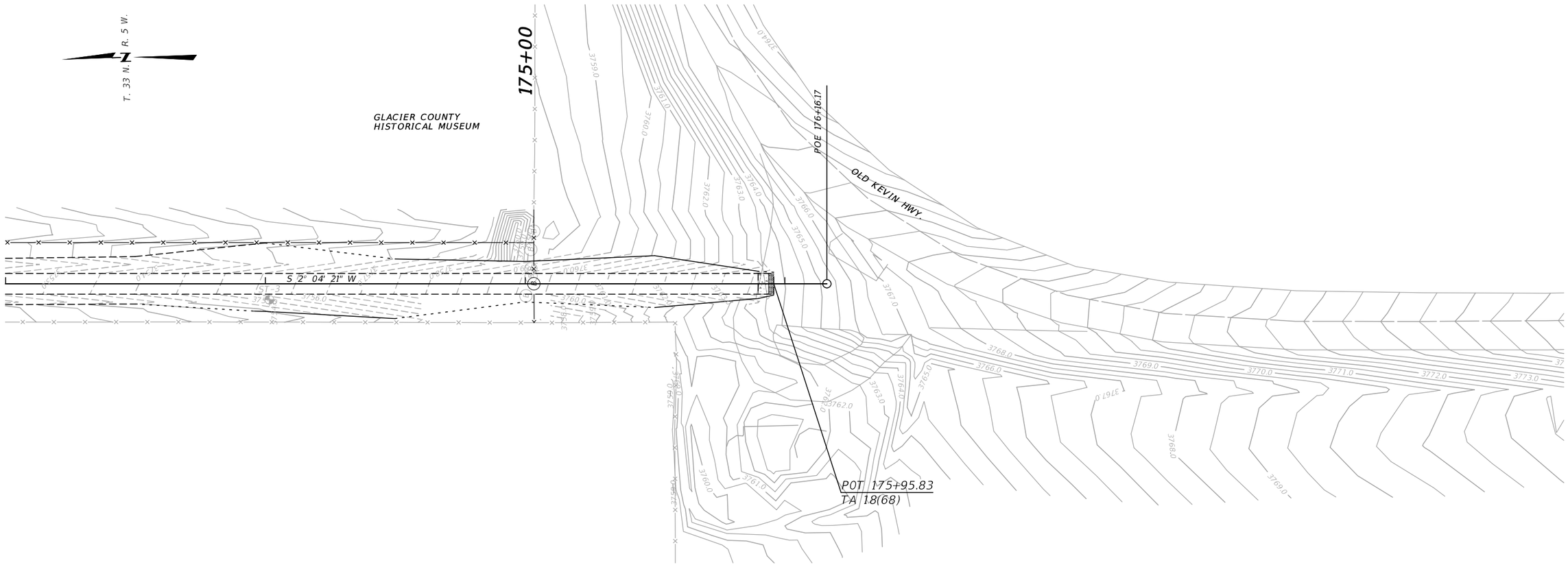


171+82
NEW 6" PVC APP. PIPE LT.

171+82
NEW PATH CONNECTION
8' TOP WIDTH
SEE DETAIL

3 2	MONTANA Department of Transportation	...\9441000\RD\9441000RDEROZ05.dgn 7/23/2024 1:23:51 PM kedam			EROSION CONTROL PLANS GLACIER COUNTY		NYHAGEN RD PATH - CUT BANK UPN 9441000	TA 18(68) 15

NOTE: BMP STATIONING IS APPROXIMATE
CONTOUR INTERVAL = 0.5 ft



175+00 RT.
REMOVE 1 EX. BOLLARD

175+02 LT.
REMOVE 4 EX. BOLLARDS

175+03
NEW BOLLARD - REMOVABLE