

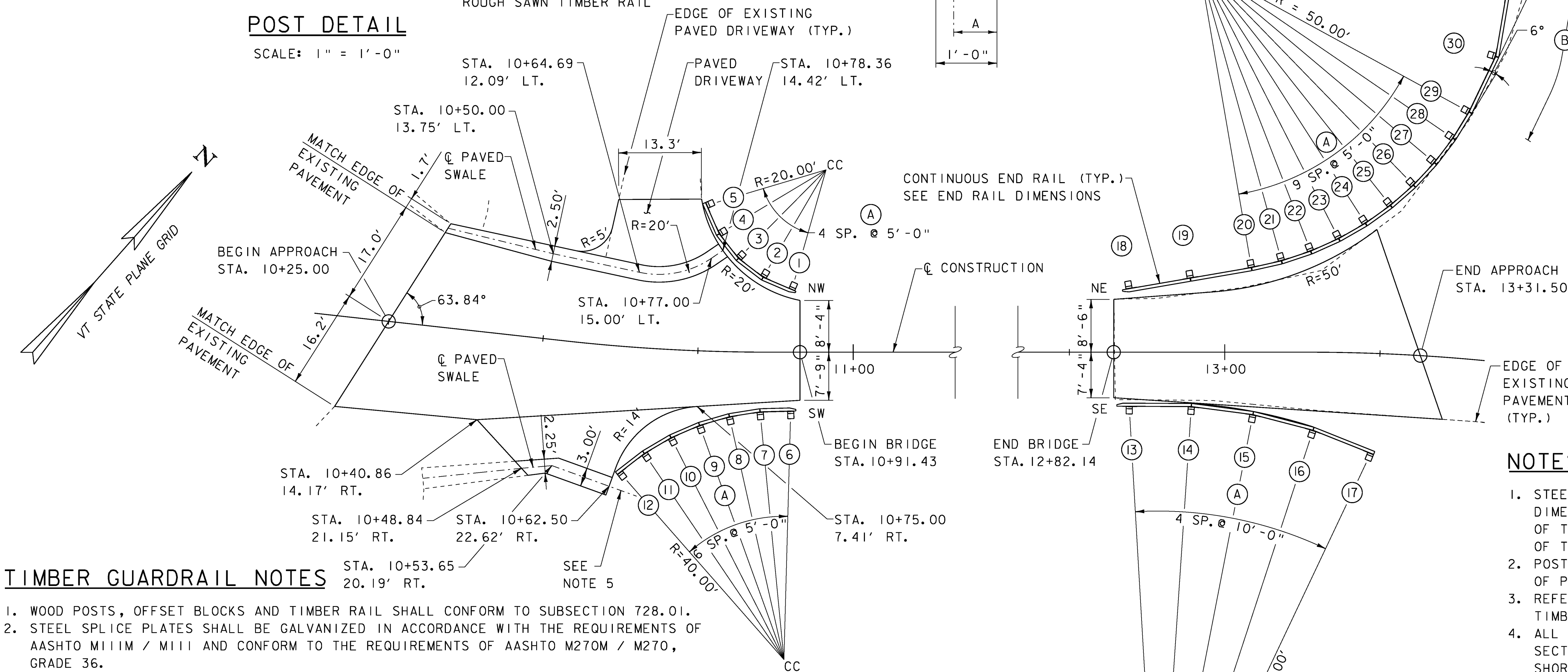
**POST DETAIL**

SCALE: 1" = 1'-0"

**END RAIL DIMENSIONS**  
(CONFIRM DIMENSION "A" PER NOTE 6)

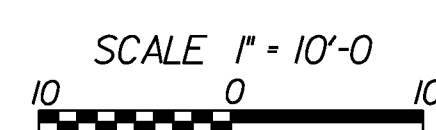
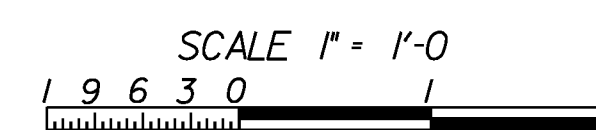
END	A
NW	8 1/2"
SW	10"
NE	1' - 1"
SE	2' - 0"

CONCRETE ANCHOR FOR TERMINAL SECTION (SEE NOTE 4)



**GUARDRAIL AND PAVEMENT LAYOUT**

SCALE: 1" = 10'



POST LOCATIONS		
POST NO.	STATION	OFFSET
1	STA. 10+90.27	10.41 LT.
2	STA. 10+85.70	12.45 LT.
3	STA. 10+81.60	15.39 LT.
4	STA. 10+78.30	19.18 LT.
5	STA. 10+75.94	23.61 LT.
6	STA. 10+89.94	9.87 RT.
7	STA. 10+85.10	10.03 RT.
8	STA. 10+80.39	10.88 RT.
9	STA. 10+75.86	12.39 RT.
10	STA. 10+71.60	14.55 RT.
11	STA. 10+67.70	17.30 RT.
12	STA. 10+64.19	20.57 RT.
13	STA. 12+84.64	9.11 RT.
14	STA. 12+94.60	9.18 RT.
15	STA. 13+04.46	10.47 RT.
16	STA. 13+14.12	12.97 RT.
17	STA. 13+23.95	16.46 RT.
18	STA. 12+84.54	10.60 LT.
19	STA. 12+94.40	12.31 LT.
20	STA. 13+04.23	14.01 LT.
21	STA. 13+09.03	15.11 LT.
22	STA. 13+13.67	16.65 LT.
23	STA. 13+17.88	18.70 LT.
24	STA. 13+21.82	21.23 LT.
25	STA. 13+25.43	24.22 LT.
26	STA. 13+28.69	27.62 LT.
27	STA. 13+31.54	31.40 LT.
28	STA. 13+33.98	35.49 LT.
29	STA. 13+35.98	39.84 LT.
30	STA. 13+39.02	49.02 LT.
31	STA. 13+39.75	58.85 LT.

**TIMBER GUARDRAIL NOTES**

- WOOD POSTS, OFFSET BLOCKS AND TIMBER RAIL SHALL CONFORM TO SUBSECTION 728.01.
- STEEL SPLICE PLATES SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO M111M / M111 AND CONFORM TO THE REQUIREMENTS OF AASHTO M270M / M270, GRADE 36.
- MISCELLANEOUS HARDWARE AND FITTINGS SUCH AS BOLTS, NUTS, AND WASHERS SHALL CONFORM TO THE DIMENSIONS SHOWN.
- ALL STEEL BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F568M, CLASS 4.6 (ASTM A307, GRADE A). STEEL NUTS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M291M (AASHTO M291). STEEL WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F436M (ASTM F844).
- ALL HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M232M / M232. ALL BOLTS, NUTS, AND WASHERS SHALL EITHER BE HOT-DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO M232M / M232 OR MECHANICALLY GALVANIZED USING A MECHANICALLY DEPOSITED PROCESS CONFORMING TO THE REQUIREMENTS OF AASHTO M298, CLASS 50.
- LAG SCREWS SHALL BE OF LOW TO MEDIUM CARBON STEEL AND SHALL BE OF GOOD COMMERCIAL QUALITY.
- CONCRETE ANCHORS SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 728.05.
- DELINEATORS SHALL BE A 3 INCH BY 1.5 INCH REFLECTIVE ALUMINUM STRIP ATTACHED WITH TWO 4D GALVANIZED NAILS. DELINEATORS SHALL BE PLACED APPROXIMATELY 10 FEET APART ALONG THE TIMBER RAIL AND CLEARLY VISIBLE TO APPROACHING TRAFFIC. REFLECTIVE MATERIAL SHALL MEET THE REQUIREMENTS OF SUBSECTION 751.03 AND SHALL BE OF ENCAPSULATED LENS SILVER OR AMBER. PAYMENT SHALL BE INCIDENTAL TO 621.18

- \* (A) LIMITS OF STEEL-BACKED TIMBER GUARDRAIL TYPE A
- \* (B) LIMITS OF STEEL-BACKED TIMBER GUARDRAIL TERMINAL SECTION TYPE SBT-FAT

\* COST INCLUDED IN ITEM 621.18

**NOTES**

- STEEL-BACKED TIMBER GUARDRAIL RADIAL LAYOUT DIMENSIONS ARE PROVIDED AT THE BACK SURFACE OF THE ROUGH SAWN TIMBER RAIL AT THE CENTERLINE OF THE POST.
- POST LAYOUT DIMENSIONS ARE PROVIDED AT THE FACE OF POST AT THE CENTERLINE OF THE POST.
- REFER TO SHEETS 58 THRU 61 FOR STEEL-BACKED TIMBER GUARDRAIL DETAILS.
- ALL COSTS ASSOCIATED WITH THE NEW TERMINAL SECTION ANCHOR, AS WELL AS CONCRETE ANCHORS FOR SHORT GUARDRAIL POST ON STANDARD 617-60 (IF NEEDED), SHALL BE INCIDENTAL TO ITEM 621.18, STEEL BACKED TIMBER GUARDRAIL.
- FOR LIMITS OF STONE FILL, SEE SHEET 8.
- THE GUARDRAIL LAYOUT AND POST LOCATIONS WERE BASED ON EXISTING BRIDGE DIMENSIONS WITH THE INTENT OF LINING UP THE FACE OF RAIL WITH THE FACE OF THE NEW PORTAL AT EACH CORNER OF THE BRIDGE. THE FINAL GUARDRAIL LOCATION SHALL BE FIELD VERIFIED BY THE CONTRACTOR TO THE SATISFACTION OF THE RESIDENT ENGINEER PRIOR TO CONSTRUCTION. ALL COSTS ASSOCIATED WITH VERIFYING THE GUARDRAIL LAYOUT SHALL BE INCLUDED IN ITEM 621.18.

PROJECT NAME:	WOODSTOCK	WOODSTOCK
PROJECT NUMBER:	BHO 1442(52)	ST 1444(58)
FILE NAME:	z96j262gr1.dgn	PLOT DATE:
PROJECT LEADER:	M. Sargent	DRAWN BY:
DESIGNED BY:	S. Della/P. Dustin	CHECKED BY:
<b>GUARDRAIL AND PAVEMENT LAYOUT</b>		SHEET 57 OF 68

