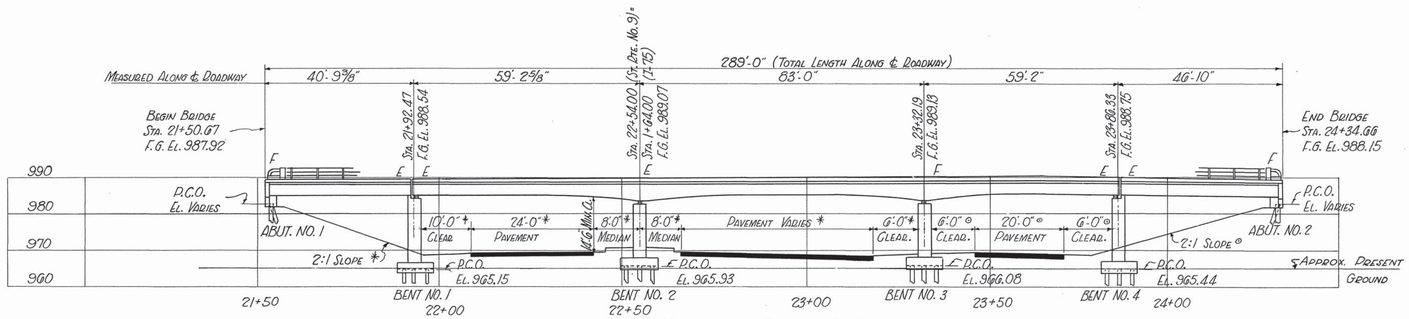
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	TENN.		19	37	75

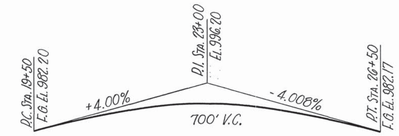


NOTE: E = Expansion
F = Fixed
NOTE: End Fills To Be In Place & Thoroughly Compacted Before Driving Abut. Piles.

Elevation Along ℄ Survey

*Measured @ Rt. Angle To ℄ I-75
⊙ Measured Radially To Ramp Base Line

NOTE: Foundations For Bents Shall Be Excavated To Pile Cut-Off Elevations Shown; Rod Soundings Shall Then Be Made As Directed By The Engineer. From The Results Obtained The Bridge Engineer Will Decide If Piles Will Be Used On The Footing Carried To Rock. The Cost Of Rod Soundings Shall Be Included In The Cost Of Items Bid On. No Reinforcing Steel Shall Be Ordered For The Bent Columns Until Final Footing Elevations Have Been Determined.

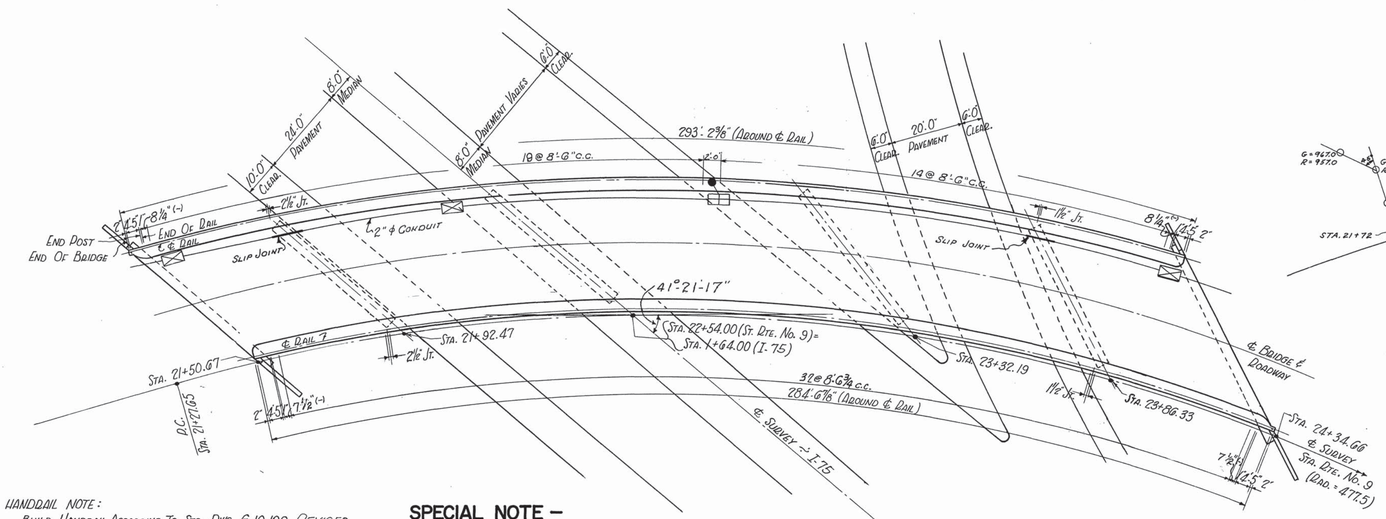


Sketch Of Grades

General Notes:

Specifications: Standard Road & Bridge Specifications Of The Tennessee Department Of Highways.
Loading: H20-S16-44

Concrete: To Be Class "A".
Reinforcing Steel: To Be Intermediate Or Hard Grade.
Piles: To Be 10" @ 42# Steel Piles In Abuts. & 12" @ 53# Steel Piles In Bents.
Self-Lubricating Plates: See Special Provisions.
Neoprene Bearing Pads: See Special Provisions.



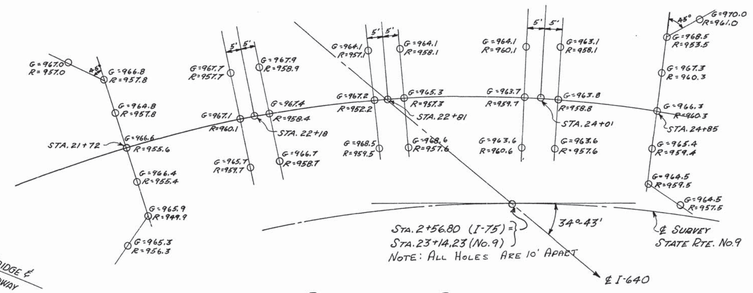
Plan

• Light Post
⊠ 8"x10"x 9½" Junction Box
⊞ 18"x18"x 10" Junction Box

Special Note - Superstructure

Falsework Under Beams Of Continuous Unit Shall Not Be Removed In Less Than Twenty One (21) Days After Final Pour Is Made.

Handrail Note:
Build Handrail According To Std. Dwg. G-10-100 Revised With Post Spacing As Shown On Plan This Sheet. Place A 3" Handrail Expansion Joint Between The Same Two Posts Where The Deck Girder Expansion Joint Is Located.
Build Handrail End Posts According To Std. Dwg. G-10-42 For Type 2.
Handrail To Conform To Curvature Of Bridge. See Also Details On Dwg. H-12-G2A.



Sounding Sketch

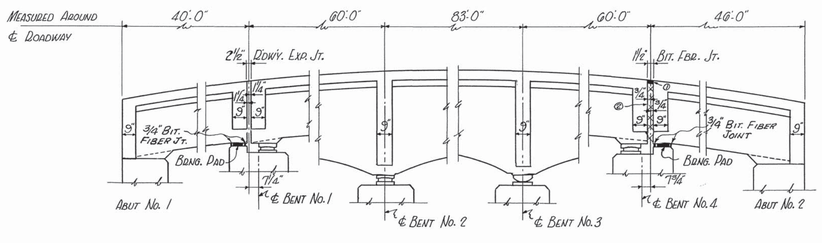
NOTE: Alignment Has Been Changed Since Soundings Were Taken.

Special Note - Piles

The Piles In Abutments No. 1 & 2 Shall Be Driven To A Minimum Bearing Of 33 Tons Or To Refusal On Rock. The Piles In Bents No. 1-4 Shall Be Driven To A Minimum Bearing Of 44 Tons Or To Refusal On Rock.
For Details Of Pile Splice See Std. Dwg. G-10-42.

List Of Dwgs.

	Dwg. No.
Geometrical Layout	H-12-G3
Handrail	See Note This Sheet, G-10-42, & G-10-100 Revised
Superstructure	
Spans No. 1 & 5	H-12-G4
Spans No. 2, 3, & 4	H-12-G5 & H-12-G6
Substructure	" G6A
Abutment No. 1	H-12-G7
Bent No. 1	H-12-G8
Bent No. 2	H-12-G9
Bent No. 3	H-12-G10
Bent No. 4	H-12-G11
Abutment No. 2	H-12-G12
Pile Splice	G-10-42
Lighting Details	H-12-G2A



Section Along ℄ Roadway

Showing Joint Locations & Blocks Poured With Beam To Obtain Level Bearing
@ Fill Top Inch Of Joint With Rubber Asphalt Joint Compound - Fed. Spec. SS-S-164.
@ Secure Bit. Fiber. Material To Face Of One Backwall.

Estimated Quantities

Items	Dry Excavation Cu. Yds.	Concrete Class "A" Cu. Yds.	Steel - Lbs. Deinf.	Steel - Lbs. Stduct. ⊕	Bronze ⊕ Lbs.	Steel Handrail Lin. Ft.	10" @ 42# Steel Piles Lin. Ft.	12" @ 53# Steel Piles Lin. Ft.	Rock Excavation Cu. Yds.
Span No. 1		77.0	15,949						
Spans No. 2, 3, & 4		408.4	120,504	8,397	1,245				
Span No. 5		88.4	20,822						
Abutment No. 1		15.0	2,091						
Bent No. 1	114	63.5	12,517						
Bent No. 2	109	53.1	12,045						
Bent No. 3	70	52.9	12,022						
Bent No. 4	131	55.9	12,918						
Abutment No. 2		19.0	2,422						
Totals	424	835.6 ⊕	211,570 ⊕	8,397	1,245	560	420	2,160	25

NOTE: The Cost Of All Joint Material & Neoprene Bearing Pads To Be Included In The Unit Price Bid For Class "A" Concrete.
⊕ Self-Lubricating Bearing Plates
⊕ Includes One Roadway Expansion Device And ⅛" Leadplates
⊕ Includes Handrail End Post Quantities
NOTE: Lump Sum For Furnishing And Installing Conduit, Junction Boxes, Slip Joints, And All Necessary Materials Required For This Installation, And For 4-1"ϕ x 3'-4" Long Steel Anchor Bolts For Light Post.

31'-0" Roadway With Safety Curbs

State of Tennessee
Department of Highways and Public Works
Nashville

Layout Of Bridge

State Route No. 9 Over I-75
Sta. 1+64 (I-75)
Shards Gap Interchange
Knox County
1959

Correct: Fred Greve
Bridge Engineer
Approved: [signature]
State Highway Engineer

H-12-G2

Designed by D. B. Omohundro — Date
Drawn by A. Budde — Date
Traced by A. Budde — Date 12-15-59
Checked by — Date

Revised - 11-14-60 Lighting Details
Revised - 10-27-60 Lighting Details
Revised - 10-10-60 Lighting Details
Revised - 10-10-60 Falsework Note
Revised 9-19-60
Revised 6-30-60

MICROFILMED