

# Appendix A

## EXISTING BRIDGE PLAN SHEETS



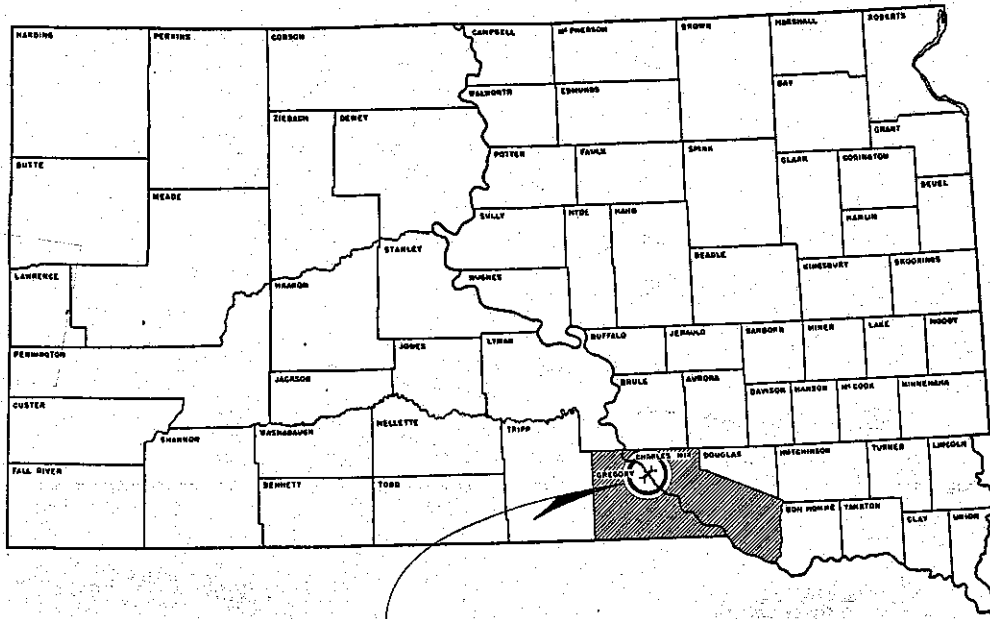
STATE OF SOUTH DAKOTA  
DEPARTMENT OF HIGHWAYS

PLANS FOR PROPOSED  
**FEDERAL AID PROJECT**

**NO. W. A. R. 008-3 SECT. 2**

**TRUNK HIGHWAY NO. 44**

**GREGORY-CHARLES MIX COUNTIES  
SUPERSTRUCTURE**



W.A.R. 008-3

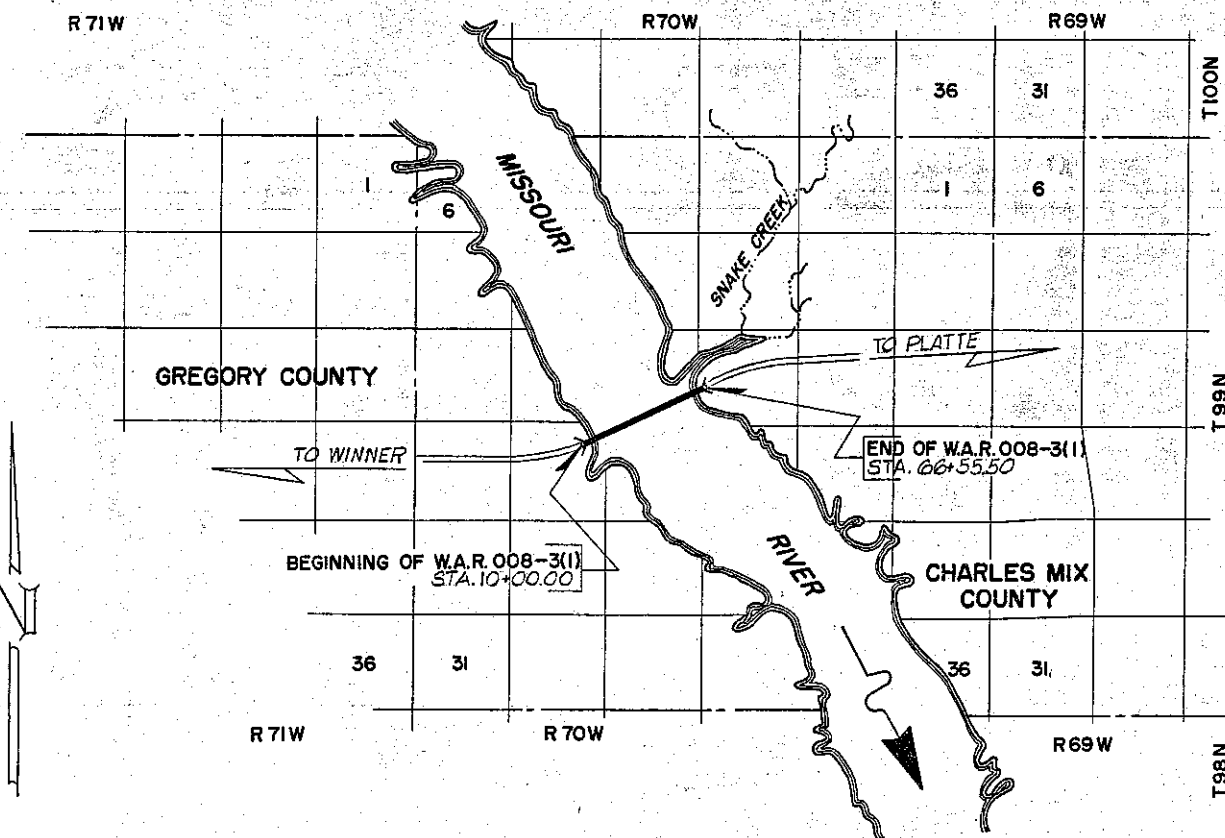
FED. ROAD DIST. NO.	STATE OF	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	S. D.			1	

INDEX OF SHEETS

- Sheet No. 1 - Title Sheet and Layout Map.
- SUBSTRUCTURE DRAWINGS**
- Sheet No. 2 - Subsurface Investigations.
  - Sheet No. 3 to 9 Incl. - General Drawing.
  - Sheet No. 10 - Estimate of Quantities.
  - Sheet No. 11 and 12 - Details of Sills No. 1 and 29.
  - Sheet No. 13 - Details of Prestressed Concrete Piles.
  - Sheet No. 14 - Footing Details of Piers No. 2 thru 28.
  - Sheet No. 15 - Details of Pier Nos. 2, 4, 6, 8, 26, and 28.
  - Sheet No. 16 - Details of Pier Nos. 3, 7, and 27.
  - Sheet No. 17 - Details of Pier Nos. 5, 9, and 25.
  - Sheet No. 18 - Details of Pier Nos. 10, 12, 14, 16, 18, 20, 22, and 24.
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  - Sheet No. 21 - Reinforcing schedule for all Piers.

**SUPERSTRUCTURE DRAWINGS**

PROJ. PLANS	BRIDGE PLANS	SHEET NOS.
2-8	3-9	GENERAL DRAWINGS.
9	22	ESTIMATE OF QUANTITIES.
10	23	SILL BACKWALL COMPLETION AND RISER DETAILS.
11 and 12	24 and 25	DETAILS OF PIER RISERS.
13	26	GIRDER LAYOUT AND DETAILS (684' UNIT).
14	27	CROSS FRAME AND STRINGER DETAILS (684' UNIT).
15	28	FRAMING DETAILS (684' UNIT).
16	29	FIELD SPLICE DETAILS (684' UNIT).
17 and 18	30 and 31	BEARING DETAILS (684' UNIT).
19	32	SLAB DETAILS (884' UNIT).
20	33	GIRDER LAYOUT AND DETAILS (900' UNIT).
21	34	CROSS FRAME AND STRINGER DETAILS (900' UNIT).
22	35	FRAMING DETAILS (900' UNIT).
23	36	FIELD SPLICE DETAILS (900' UNIT).
24 and 25	37 and 38	BEARING DETAILS (900' UNIT).
26	39	SLAB DETAILS (900' UNIT).
27	40	DETAILS OF EXPANSION DEVICE AND CAST BRONZE IDENTIFICATION PLATE.
28	41	DETAILS OF EXPANSION DEVICE.
29	42	SLAB ELEVATIONS AND CAMBER DIAGRAMS.
30	43	DETAILS OF PIER CAP WALKWAY.
31	44	DETAILS OF BRIDGE RAILING.



LEGEND

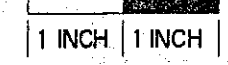
- STATE AND NATIONAL LINE
- COUNTY LINE
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- CENTER LINE OF SURVEY
- RIGHT OF WAY LINE
- FENCE LINE
- GUARD RAIL
- TRAVELED WAY
- RAILROADS
- MARSH
- TREES

SCALES

LAYOUT. 1 INCH = 1 MILE

GROSS LENGTH	5655.5	FEET	1.071	MILES
LENGTH OF EXCEPTIONS	0	FEET	0	MILES
NET LENGTH	5655.5	FEET	1.071	MILES
LENGTH OF GRADING	0	FEET	0	MILES

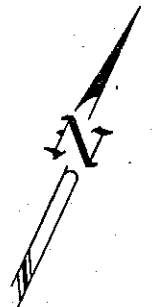
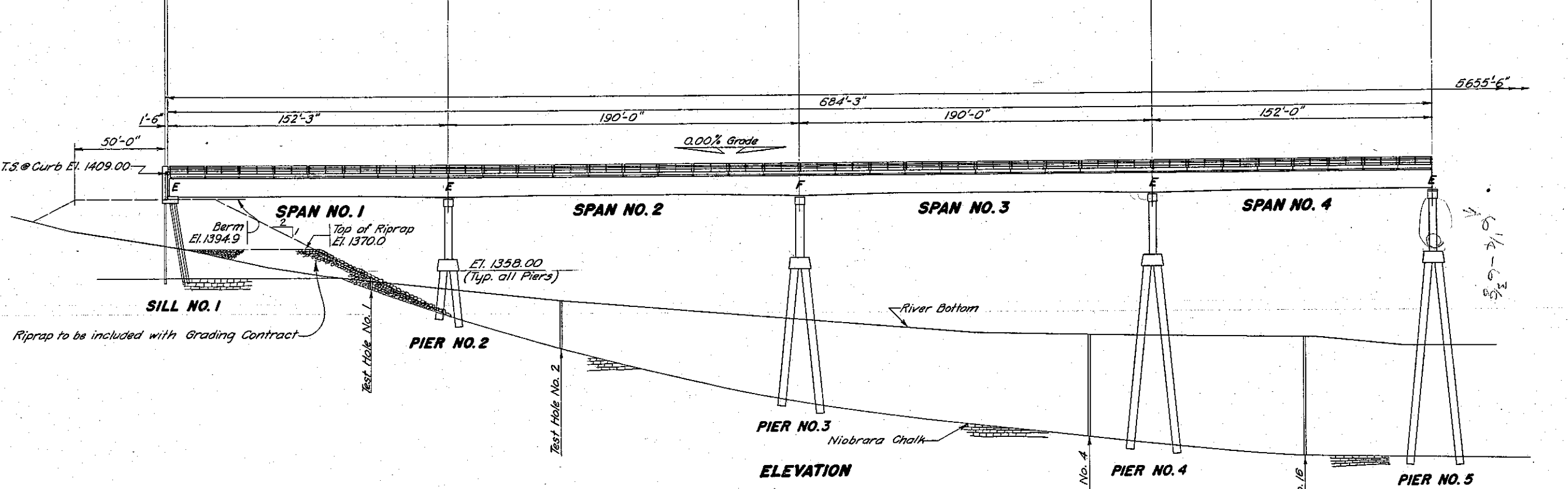
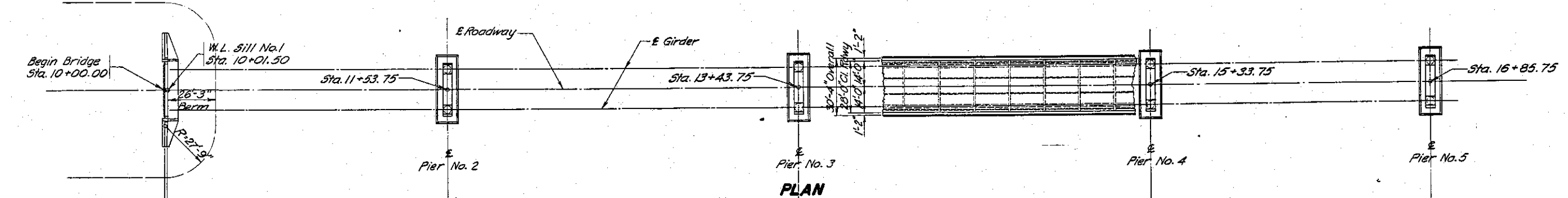
REDUCTION SCALE



APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
HIGHWAY ENGINEER, SOUTH DAKOTA DEPARTMENT OF HIGHWAYS

DEPARTMENT OF COMMERCE  
BUREAU OF PUBLIC ROADS

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_

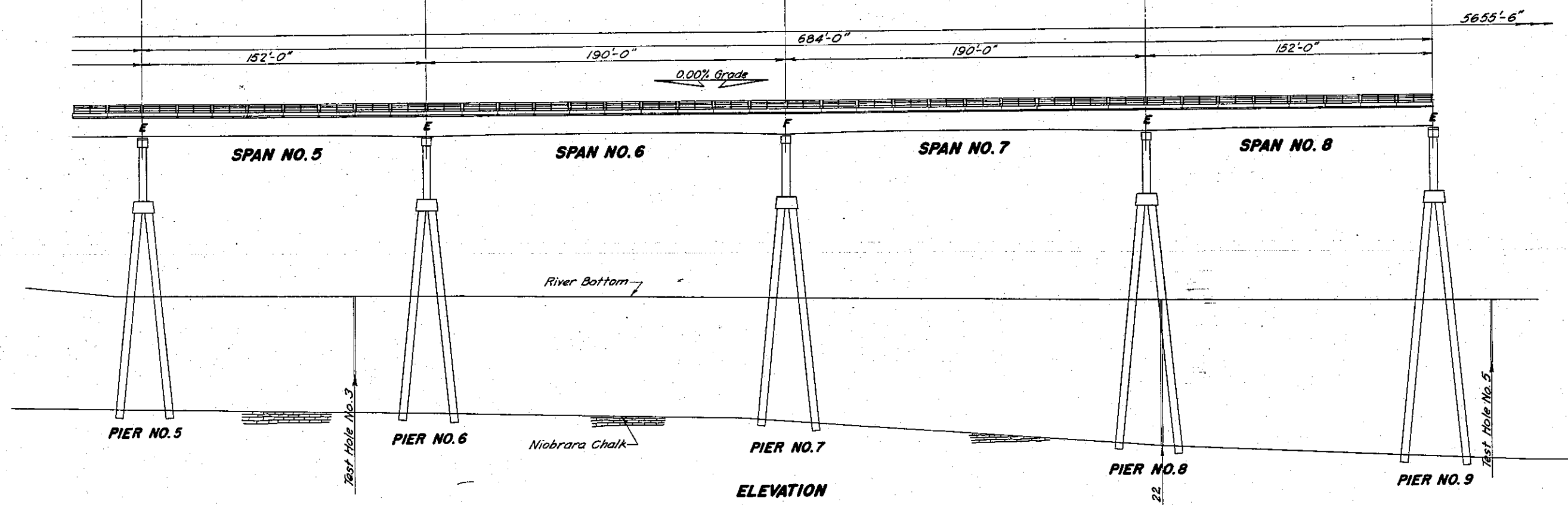
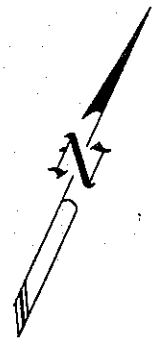
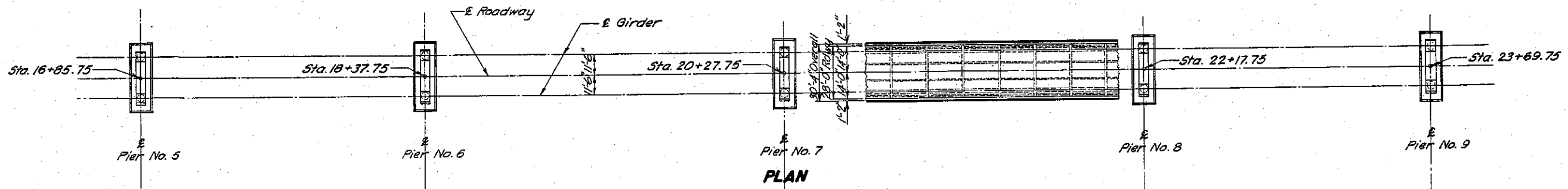


**SPECIFICATION NOTE—**  
 Standard Specifications for Roads and Bridges issued April 1957 and Revisions and Supplements to Standard Specifications for Roads and Bridges dated March 1961 and Supplemental Specifications as included in the proposal.  
 PORTLAND CEMENT: Portland Cement, other than Type I, may be used at the option of the contractor with the approval of ENGINEER.

**NOTE—**  
 For Horizontal and Vertical controls see Special Provisions.

GENERAL DRAWING  
 FOR  
**5,655'-6" BRIDGE OVER FT. RANDALL RES.**  
 28'-0" ROADWAY  
 STA. 10+00.00 TO STA. 66+55.50 WAR 008-3 SEC. 2  
 ON STATE HWY. 44 GREGORY-CHARLES MIX CO.  
 SOUTH DAKOTA H20-S16-44  
 DEPARTMENT OF HIGHWAYS  
 NOV. 1962 3 OF 44

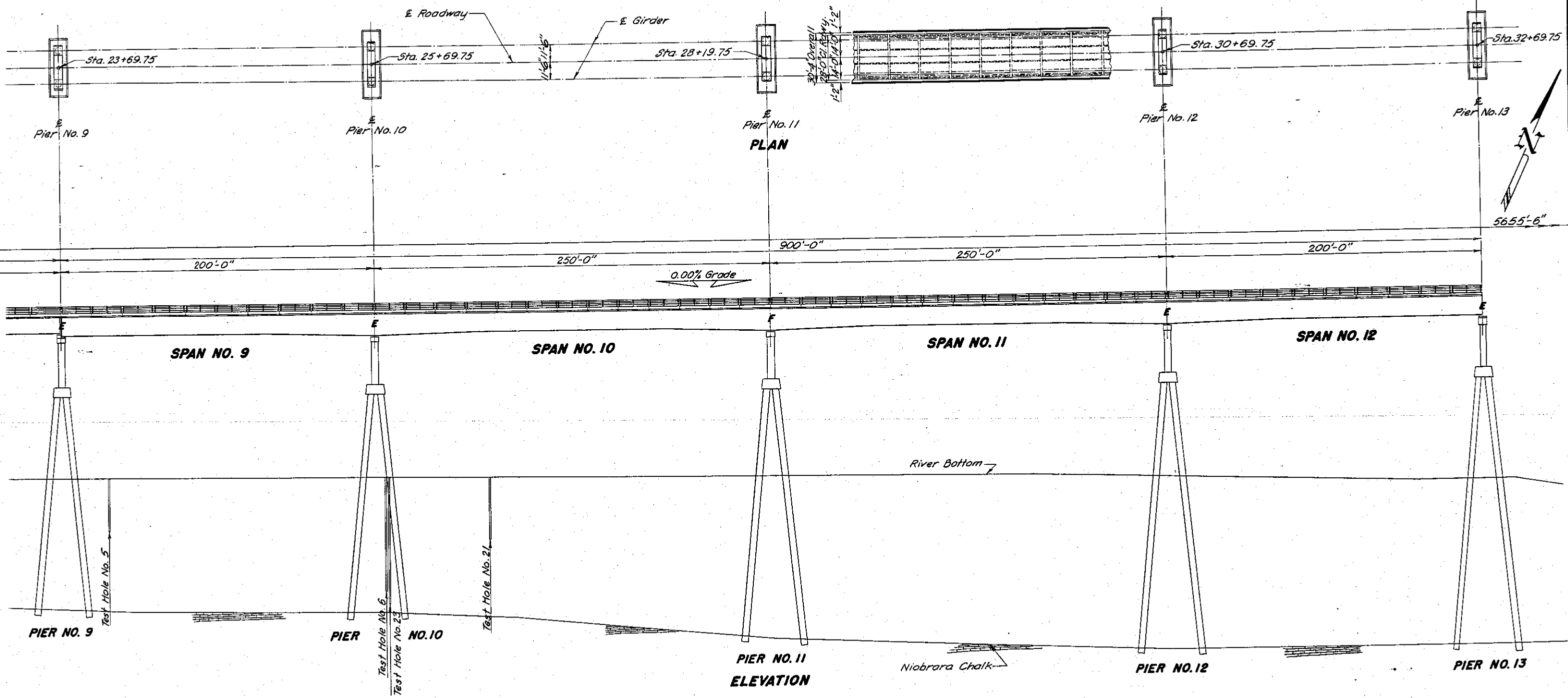
DESIGNED BY R.W.J.	DRAWN BY D.B.	CHECKED BY E.L.	APPROVED [Signature] CONSULTING BRIDGE ENGINEER
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GENERAL DRAWING  
 FOR  
**5,655'-6" BRIDGE OVER FT. RANDALL RES.**  
 28'-0" ROADWAY  
 STA. 10+00.00 TO STA. 66+55.50 WAR 008-3 SEC. 2  
 ON STATE HWY. 44 GREGORY-CHARLES MIX CO.  
 SOUTH DAKOTA H20-S16-44  
 DEPARTMENT OF HIGHWAYS  
 NOV. 1962 4 OF 44

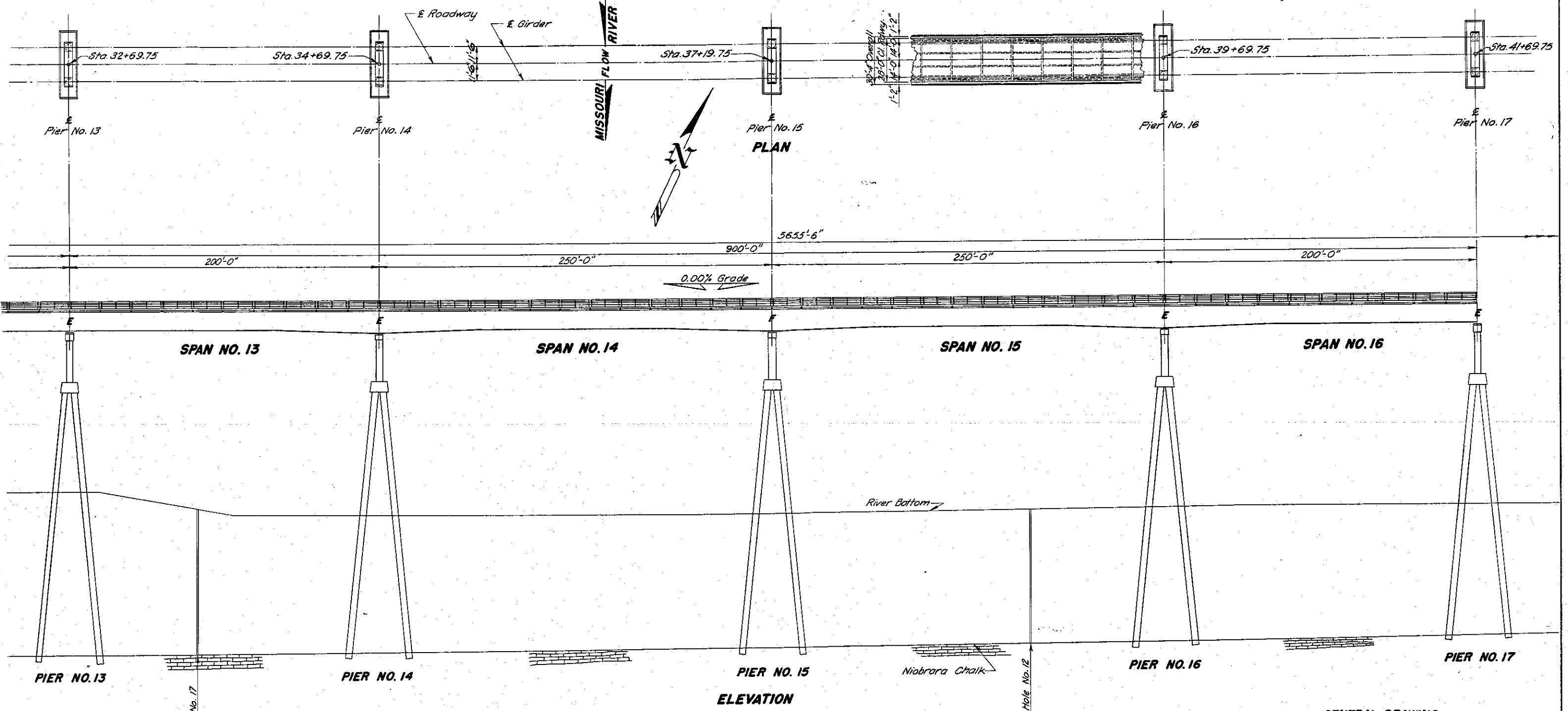
DESIGNED BY <i>R.W.J.</i>	DRAWN BY <i>DS</i>	CHECKED BY <i>E.K.</i>	APPROVED <i>[Signature]</i> CONSULT. BRIDGE ENGINEER
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FED. ROAD DIST. NO.	STATE	FISCAL YEAR	SHEET NO.	TOTAL
5	S.D.		4	



GENERAL DRAWING  
 FOR  
**5,655'-6" BRIDGE OVER FT. RANDALL RES.**  
 28'-0" ROADWAY  
 STA. 10+00.00 TO STA. 66+55.50 WAR 008-3 SEC. 2  
 ON STATE HWY. 44 GREGORY-CHARLES MIX CO.  
 SOUTH DAKOTA H20-S16-44  
 DEPARTMENT OF HIGHWAYS  
 NOV. 1962 (5) OF (44)

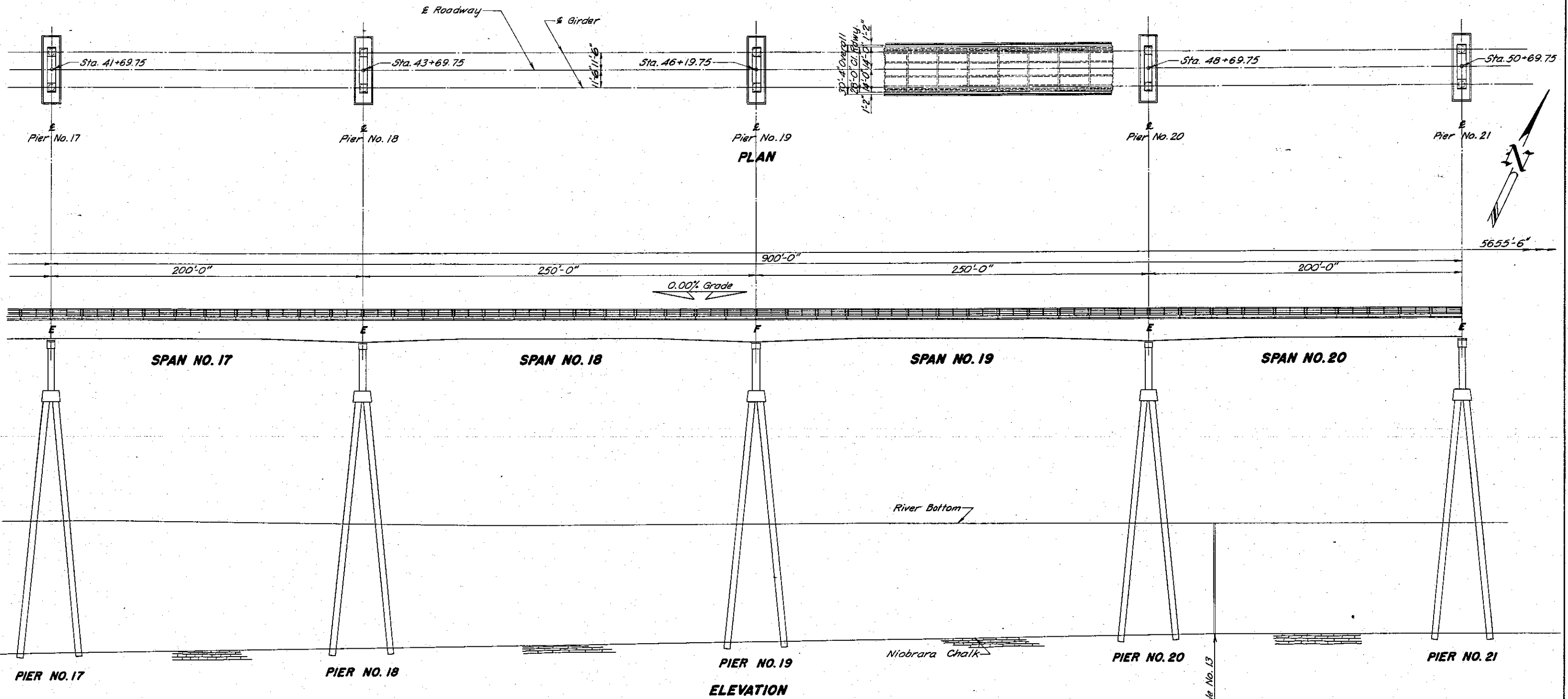
DESIGNED BY R.W.J.	DRAWN BY D.B.	CHECKED BY E.K.	APPROVED <i>[Signature]</i> CONSULT'G. BRIDGE ENGINEER
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GENERAL DRAWING  
 FOR  
**5,655'-6" BRIDGE OVER FT. RANDALL RES.**  
 28'-0" ROADWAY  
 STA. 10+00.00 TO STA. 66+55.50 WAR 008-3 SEC. 2  
 ON STATE HWY. 44 GREGORY-CHARLES MIX CO.  
 SOUTH DAKOTA H20-516-44  
 DEPARTMENT OF HIGHWAYS  
 NOV. 1962 (6) OF (44)

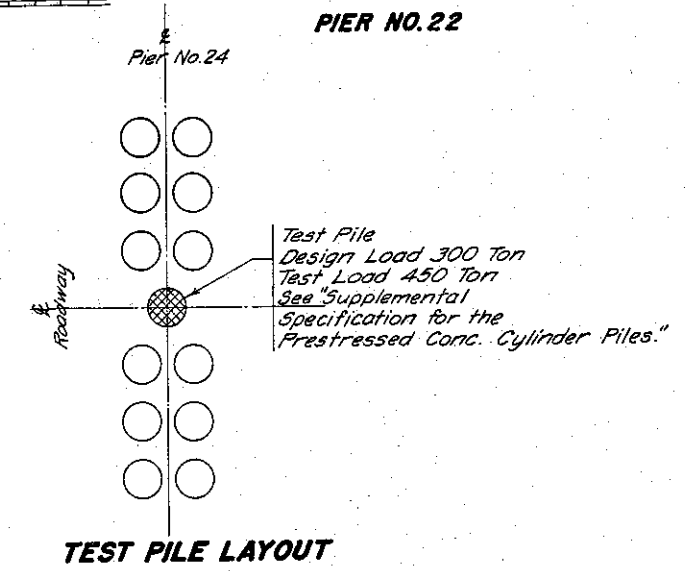
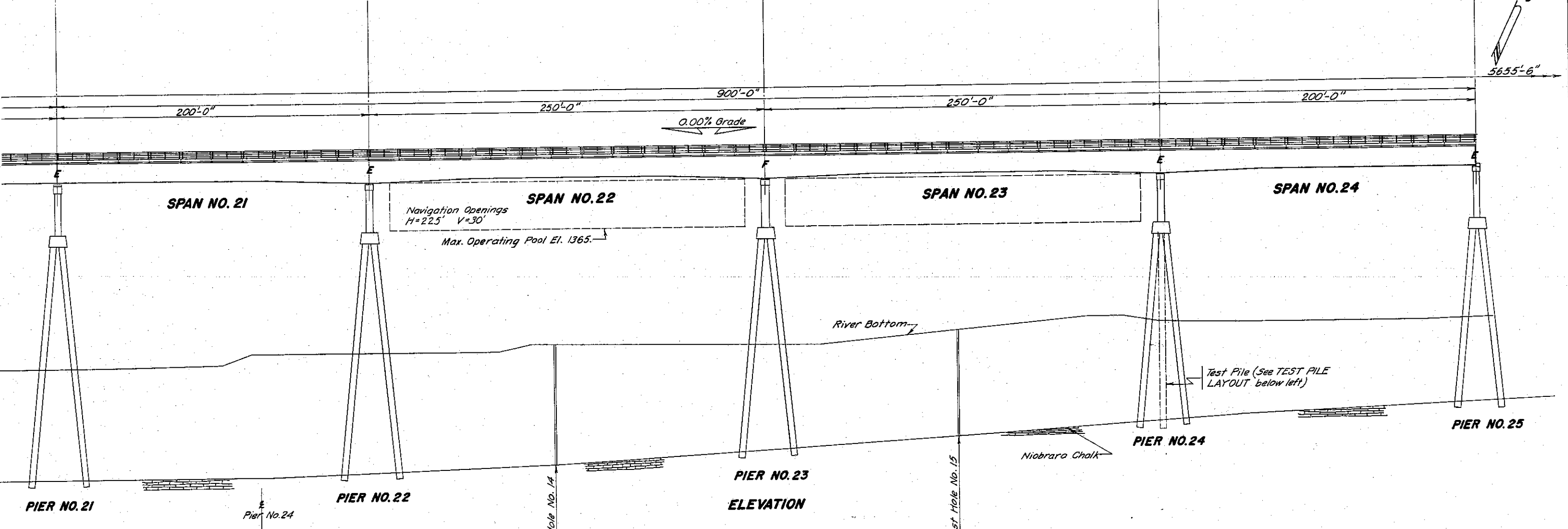
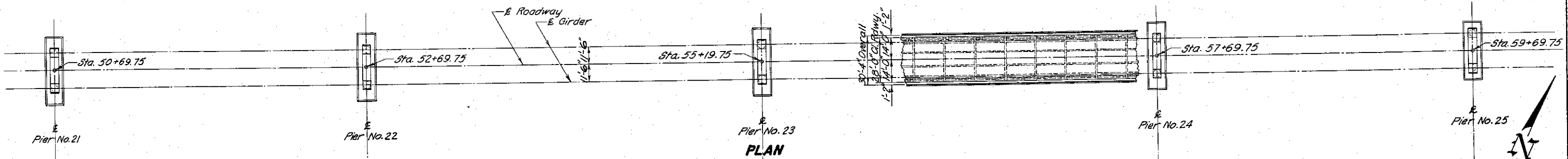
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FED. ROAD DIST. NO.	STATE	FISCAL YEAR	DRAWING NO.	TOTAL
5	S.D.		6	



GENERAL DRAWING  
 FOR  
**5,655'-6" BRIDGE OVER FT. RANDALL RES.**  
 28'-0" ROADWAY  
 STA. 10+00.00 TO STA. 66+55.50 WAR 008-3 SEC. 2  
 ON STATE HWY. 44 GREGORY-CHARLES MIX CO.  
 SOUTH DAKOTA H20-S16-44  
 DEPARTMENT OF HIGHWAYS  
 NOV. 1962 (7) OF (44)

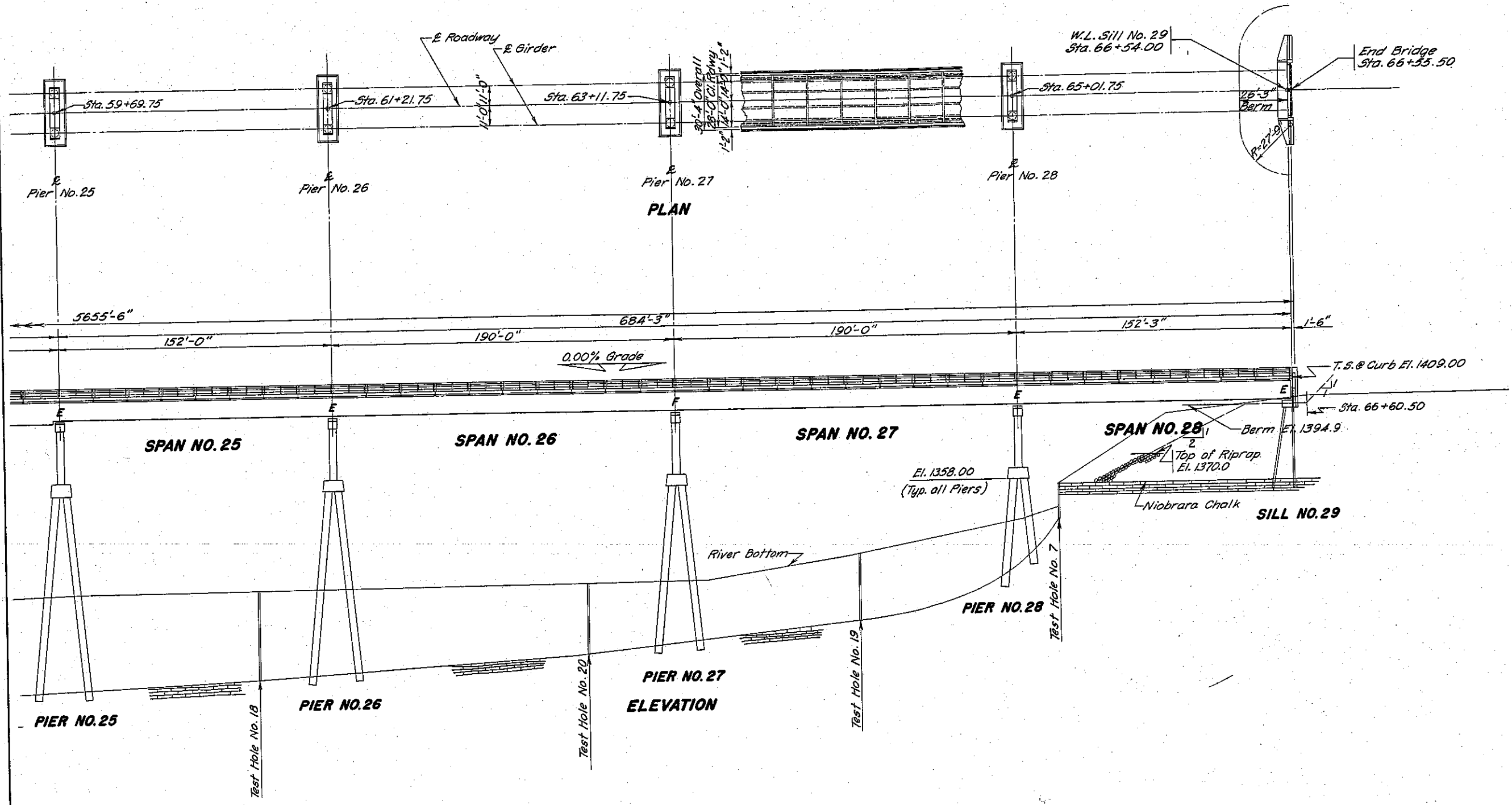
DESIGNED BY <i>R.W.J.</i>	DRAWN BY <i>D.B.</i>	CHECKED BY <i>K.C.W.</i>	APPROVED <i>K.P. Sears</i> CONSULT'G. BRIDGE ENGINEER
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GENERAL DRAWING  
 FOR  
**5,655'-6" BRIDGE OVER FT. RANDALL RES.**  
 28'-0" ROADWAY  
 STA. 10+00.00 TO STA. 66+55.50 WAR 008-3 SEC. 2  
 ON STATE HWY. 44 GREGORY-CHARLES MIX CO.  
 SOUTH DAKOTA H20-S16-44  
 DEPARTMENT OF HIGHWAYS  
 NOV. 1962 (8) OF (44)

DESIGNED BY <i>R.W.J.</i>	DRAWN BY <i>DJB</i>	CHECKED BY <i>K.C.W.</i>	APPROVED <i>K.C.W.</i> CONSULTING BRIDGE ENGINEER
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GENERAL DRAWING  
FOR  
**5,655'-6" BRIDGE OVER FT. RANDA**  
28'-0" ROADWAY  
STA. 10+00.00 TO STA. 66+55.50 WAR 008  
ON STATE HWY. 44 GREGORY-CHARL  
SOUTH DAKOTA H2  
DEPARTMENT OF HIGHWAY  
NOV. 1961 (9)

DESIGNED BY <i>R.W.T.</i>	DRAWN BY <i>D.B.</i>	CHECKED BY <i>K.C.W.</i>	APPROVED <i>[Signature]</i> CONSULT'G. BR
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