F.H.W.A. REGION	STATE	PROJECT	
5	OHIO	BRS-541(3)	

1/10

POR-700-3.36

BRS-541(3)

DESIGN DESIGNATION
CURRENT ADT (1980) 1060
DESIGN YEAR ADT (2000) 1520
DHV 152
D 50%
T 1.6%
V 50MPH

MICROFILMED
SEP 23 1983

MICROFILMED
AUG 23 1983

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

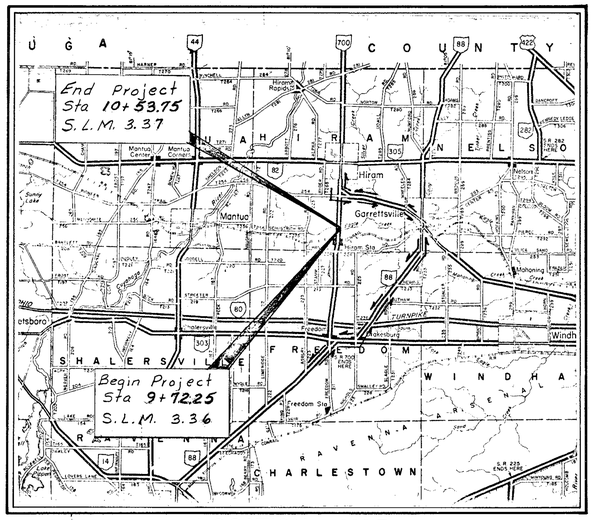
POR-700-3.36
HIRAM TOWNSHIP
PORTAGE COUNTY

CONVENTIONAL SIGNS

County Line
Township Line
Section Line
Corporation Line or
Fence Line (existing) (proposed)
Center Line 352 353
Trees, Stumps, (to be removed)
Utility Poles: Telephone, Power, Light
Limited Access (only) LA
Right of Way (only) RW
Limited Access & Right of Way LA & RW
Existing Right of Way
Property Line (in existing fence)
Railroad or
Guardrail (existing) (proposed)

INDEX OF SHEETS

TITLE SHEET 1
TYPICAL SECTIONS 2
CALCULATIONS 2
GENERAL NOTES 2, 3
GENERAL SUMMARY 4
PLAN & PROFILE 5
CROSS SECTIONS 6
BRIDGE PLAN 7-10



LOCATION MAP

SCALE IN MILES 0 1 2 3 4 5 6 7 8

Portion to be improved
State & Federal Routes
Other Roads
Detour

SCALES

Plan 0 20 40
Profile: Horizontal 0 20 40, Vertical 0 1 2
Cross Section: Horizontal 0 5 10, Vertical 0 5 10

48 HOURS BEFORE YOU DIG
Call 800-362-2764
TOLL FREE
OHIO UTILITIES PROTECTION SERVICE
ALL MEMBERS MUST BE CALLED DIRECTLY

LINE DATA

BEGIN PROJECT STA. 9+72.25
END PROJECT STA. 10+53.75
LENGTH OF PROJECT 81.50 LIN Ft or 0.015 Mi.

BEGIN WORK STA 8+75
END WORK STA. 11+50
LENGTH OF WORK 275 LIN Ft or 0.052 Mi.

BRIDGE
PLAN PREPARED BY:
GLAUS, PYLE, SCHOMER
BURNS AND DeHAVEN, INC.
CONSULTING ENGINEERS

HIGHWAY
Plan Prepared By:
DISTRICT 4
OHIO DEPARTMENT OF TRANSPORTATION
LOCATION & DESIGN

Project: POR-700-3.36
Date of Letting ____ 19__, Contract No. ____

LD0300 Rev. 11-30-77

1981 SPECIFICATIONS

The standard specifications of the State of Ohio, Department of Transportation, including changes and supplemental specifications listed in the proposal shall govern this improvement.

I hereby approve these plans and declare that the making of this improvement will require the closing to traffic of the highway and that detours will be provided as indicated on the plans.

Approved William M Goldman
Date 9-16-82 District Deputy Director of Transportation

Approved Robert B Pfeifer
Date 10-4-82 Engineer, Bureau of Bridges and Structural Design
J.S.R.

Approved Byrd Tinley, Jr.
Date 10-18-82 Chief Engineer, Planning and Design, Acting
Date Prints

Approved David L. Wier
Date 10-18-82 Director, Department of Transportation

SUPPLEMENTAL SPECIFICATIONS	
1001 1-3-77	

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS					
AS-1-81	11-27-81				
BP-5	7-16-81				
GR-1	2-5-82				
GR-2B	2-5-82				
GR-3	2-5-82				
GR-4	2-5-82				
MC-3	6-1-73				
MC-11	8-1-78				
DBR-2-73	4-10-73				
PSBD-1-81	9-18-81				

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED
DIVISION ADMINISTRATOR DATE

MICROFILMED
SEP 2 1983

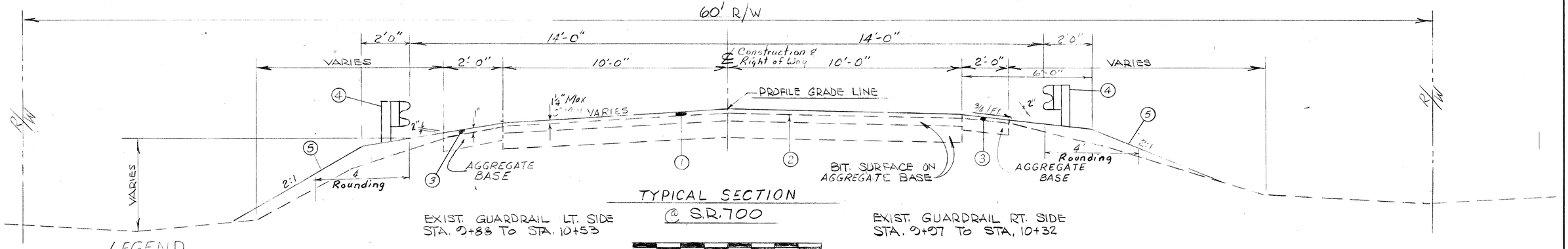
TYPICAL SECTION

TYPE 404

FHWA REGION	STATE	PROJECT NO.	FUNDS
5	OHIO		

2/10

POR-700-03.36



TYPICAL SECTION @ S.R.700

EXIST. GUARDRAIL LT. SIDE
STA. 9+88 To STA. 10+53

EXIST. GUARDRAIL RT. SIDE
STA. 9+97 To STA. 10+32

LEGEND.

1. ITEM 404 VARIABLE DEPTH ASPHALT CONCRETE, AC-20
2. ITEM 407 - TACK COAT APPLIED AT THE RATE OF 0.10 Gal/Sq. Yd.
3. ITEM 411 - STABILIZED CRUSHED AGGREGATE
4. ITEM - 606 - GUARD RAIL, TYPE 5
5. ITEM - 659 - SEEDING AND MULCHING (See General Note)

0 4 8
SCALE

LIMITING STATION
STA 9+22.25 To STA 9+72.25
STA 10+53.75 To STA 11+03.75

Calc By C. & M.
Date 8-82
Chk'd By W.B.P.
Date 9-82

CALCULATIONS

404 - 5/8" Avg. Thickness Asphalt Concrete (Feather Area)
Sta 9+22.25 to Sta 9+72.25 = 50 L.F.
Sta 10+53.75 to Sta 11+03.75 = 50 L.F.
100 x 625 x 20 ÷ 324 = 3.85 Cu. Yds.
Approach Slab 15 x 28 x 2 = 840 S.F.
1¼" x 840 ÷ 324 = 3.24 Cu. Yd.
Total 7.09 Cu Yd.
To Summary 7 Cu. Yd.

407 - Tack Coat
From Feather Area 100 x 20 = 2000 S.F.
From Approach Slab 28 x 15 x 2 = 840 S.F.
2840 ÷ 9 x 0.1 = 31.56 Gal
To Summary 32 Gal.

411 - 1" Stabilized Crushed Aggregate Width 2'
Sta 8+84.88 to Sta 9+72.25 = 87.37'
Sta 10+53.75 to Sta 11+41.13 = 87.38
174.75 x 2 x 1 ÷ 324 = 1.08 Cu. Yd
To Summary 1 Cu. Yd.

659 - Fertilizer
From Seeding 734 S.Y.
734 x 9 ÷ 1000 x 20 ÷ 2000 = 0.066 Ton
To Summary 0.07 Ton

659 - Aggricultural Lime
From Seeding 734 S.Y.
734 x 9 ÷ 1000 x 100 ÷ 2000 = 0.33 Ton
To Summary 0.33 Ton

403 - Intermediate Course (Approach Slabs only)
From 404 - 3.24 Cu. Yds
To Summary 4 Cu. Yds.

407 Cover Aggregate, 703.06
2840 S.F. x 1/9 x 0.0035 = 1.1 Tons
To Summary 1 Tons

GENERAL NOTES

MOBILIZATION AS PER PLAN

THE CONTRACTOR SHALL PROVIDE A SUITABLE FIELD OFFICE HAVING A MINIMUM OF 150 SQ. FT. OF FLOOR SPACE WHICH SHALL BE IN ACCORDANCE WITH 619.01 AND 619.02. PAYMENT SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 624, MOBILIZATION, AS PER PLAN.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR PLAN ITEMS SET UP TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

SEEDING

QUANTITIES FOR SEEDING ARE CALCULATED FOR THE SOIL AREAS BETWEEN TEN (10) FEET OUTSIDE THE WORK LIMITS, AS SHOWN ON THE CROSS SECTIONS, OR TO THE RIGHT-OF-WAY LINE, IF SUCH LINE IS LESS THAN TEN (10) FEET FROM THE WORK LIMITS.

UTILITY OWNERSHIP

THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT:

MID CONTINENT TELEPHONE Co
205 SOUTH HAMBDEN St.
CHARDON, OHIO 44024
ATTN: MR. JOHN HOBBY
TELEPHONE - 286-9363

OHIO EDISON Co.
76 SOUTH MAIN St
AKRON, OHIO 44308
ATTN: MR. BUCHANAN
TELEPHONE - 384-5234

LOCATION OF GUARDRAIL

THE LOCATIONS OF GUARDRAIL RUNS, AS SHOWN IN THESE PLANS, ARE SUBJECT TO ADJUSTMENT PRIOR TO FINAL ACCEPTANCE. THE ENGINEER SHALL BE SATISFIED THAT ALL INSTALLATIONS WILL AFFORD MAXIMUM PROTECTION FOR TRAFFIC.

ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS

THE ROUNDED CORNERS SHOWN ON THE TYPICAL SECTIONS APPLY TO ALL CROSS SECTIONS EVEN THOUGH OTHERWISE SHOWN ON THESE PLANS.

LIGHTS AND SIGNS AT ADJACENT INTERSECTIONS

The Contractor shall, in addition to the General requirements of Item 614 on this Project perform the following:

Provide, Erect, and Maintain standard 48"x30" size "Road Closed" signs, sign Supports, and Lights at the following locations during the period in which the affected Road will be closed to Traffic:

1. S.R 700, Just South of Pioneer Trail, C.H.254.
2. S.R 700, Just North of Hankee Road, C.H.224.

Sign Supports and lights for "Road Closed" signs shall be as detailed in the Manual of Uniform Traffic Control Devices.

Payment for providing, erecting, maintaining, and removing lights, signs, and sign supports shall be included in the lump sum price bid for Item 614 Maintaining Traffic.

TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

The following estimated quantity has been added, to be used as directed by the Engineer, for Temporary Erosion and Sediment Control measures:

Item 207 Straw or Hay Bales 30 Ea.

WATERING PERMANENT SEEDED AREAS

The following estimated quantity is to be used as directed by the Engineer to promote growth and to care for the permanent seeded areas, as per 659.09:

659 Water 1 M Gal.

General Notes Continued on Sheet No 3

CALCULATIONS - TYPICAL SECTIONS - GENERAL NOTES

GENERAL NOTES
CON'T.

FHWA REGION	STATE	PROJECT NO.	FUNDS
5	OHIO		

3/10

POR-700-3.36

TEMPORARY PAVEMENT MARKING

614 TEMPORARY PAVEMENT MARKINGS

THE CONTRACTOR SHALL FURNISH, AND INSTALL TEMPORARY RETRO-REFLECTIVE PAVEMENT MARKINGS ON RECONSTRUCTED OR RE-SURFACED ROADS WITHIN THE WORK LIMITS, IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS, UNLESS OTHERWISE SPECIFIED IN THE PLANS.

CENTER LINES AND EDGE LINES SHALL CONSIST OF 12"x4" SEGMENTS SPACED AT A MAXIMUM 10' CENTER TO CENTER.

THE MATERIAL FURNISHED SHALL BE FLEXIBLE RETROREFLECTIVE PERFORMED PRESSURE SENSITIVE TAPE FOR PAVEMENT LINES. IT SHALL BE FREE OF CRACKS WITH STRAIGHT EDGES AND CONSIST OF PIGMENT AND FILLERS, BUT HAVE SUFFICIENT BINDER AND PLASTICIZER TO RETAIN GLASS BEADS HAVING AN APPROPRIATE REFRACTIVE INDEX TO MEET MINIMUM REFLECTIVE INTENSITY STANDARDS OUTLINED IN THE MANUFACTURERS INFORMATION. MATERIAL SHALL BE FLEXOLITE "WET REFLECTIVE", 3M "SCOTCHLANE," OR APPROVED EQUAL.

GLASS BEADS SHALL BE MIXED UNIFORMLY THROUGHOUT THE MARKING MATERIAL WITH SUFFICIENT SURFACE BEADS TO PROVIDE OPTIMUM REFLECTORIZATION AT ALL TIMES.

THE MATERIAL SHALL HAVE A PRECOATED ADHESIVE LAYER FOR PAVEMENT APPLICATION WITHOUT THE USE OF HEAT, SOLVENTS OR ADDITIONAL ADHESIVES. THE ADHESIVE SHALL BE SUFFICIENT TO RETAIN COMPLETE MARKINGS ON THE PAVEMENT SURFACE THROUGHOUT THE USEFUL LIFE OF THE MARKINGS.

WHITE MARKING MATERIAL SHALL BE FREE OF TINT. YELLOW MATERIAL SHALL CONFORM TO COLOR NO. 33538 OF FEDERAL STANDARD 595.

IN ADDITION, ALL APPLICABLE MANUFACTURERS MATERIAL AND APPLICATION INSTRUCTIONS, IN FORCE AT THE TIME OF PLACEMENT, SHALL BE ADHERED TO. THE CONTRACTOR SHALL FURNISH TO THE ENGINEER CERTIFICATION THAT THE MATERIAL SUPPLIED MEETS THE PROPERTIES SPECIFIED HEREIN.

MARKINGS SHALL BE ACCURATELY LAID OUT IN CONFORMANCE WITH 621.051 AND SHALL BE LOCATED IN A TRUE LINE ON THE CENTER LINE, OR EDGE LINE WHERE NORMAL PERMANENT MARKING WOULD LIE, UNLESS OTHERWISE SPECIFIED IN THE PLANS. THE TEMPORARY TAPE SHALL BE PLACED BY ROLLING THE MATERIAL INTO THE SURFACE.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT SHALL BE IN CONFORMANCE WITH 621.15 AND 621.16 RESPECTIVELY FOR:

ITEM	UNIT	QUANT.	DESCRIPTION
614	MILES	0.08	TEMPORARY EDGE LINES
614	MILES	0.04	TEMPORARY CENTER LINES

GENERAL SUMMARY

CALC BY C.L.M. DATE 8-82	BRS-541()	OHIO	4
CHKD BY W.D.P. DATE 9-82		FHWA REGION 5	10

POR-700-3.36

ITEM	SHEET NUMBER 2	3	5	6
202			50	
203				187
203				98
606			300	
606			4	
606			4	
659				734
659	0.07			
659	0.33			
207	30			
659	1			
403	4			
404	7			
407	32			
407	1			
411	1			
611			94	
614		0.04		
614		0.08		
614				
624				
623				

ITEM	QUANT.	UNIT	DESCRIPTION
			ROADWAY
202	50	Lin.Ft.	Guard Rail Removed
203	187	Cu.Yd.	Excavation, Not including Embankment Construction
203	98	Cu.Yd.	Embankment
606	300	Lin.Ft.	Guard Rail, Type 5
606	4	Each	Anchor Assembly, Standard Type A
606	4	Each	Bridge Terminal Assembly, Standard Type B
			EROSION CONTROL
659	734	Sq.Yd.	Seeding and Mulching
659	0.07	Ton	Commercial Fertilizer
659	0.33	Ton	Agricultural Liming
207	30	Ea.	Straw. or Hay Bales
659	1	M Gal.	Water
			PAVEMENT
403	4	Cu.Yd.	Asphalt Concrete, AC-20
404	7	Cu.Yd.	Asphalt Concrete, AC-20
407	32	Gal.	Tack Coat
407	1	Ton	Cover aggregate
411	1	Cu.Yd.	Stabilized Crushed Aggregate
611	94	Sq.Yd.	Reinforced concrete approach slabs (T=12")
614	0.04	Miles	Temporary Center Lines
614	0.08	Miles	Temporary Edge Lines
614	Lump		Maintaining Traffic
624	Lump		Mobilization, as per plan
623	Lump		Construction Layout Stakes

FOR STRUCTURE QUANTITIES, SEE SHEET No. 9

FED. RD. DIVISION	STATE	PROJECT		5 / 10
5	OHIO			

POR-700-03.36

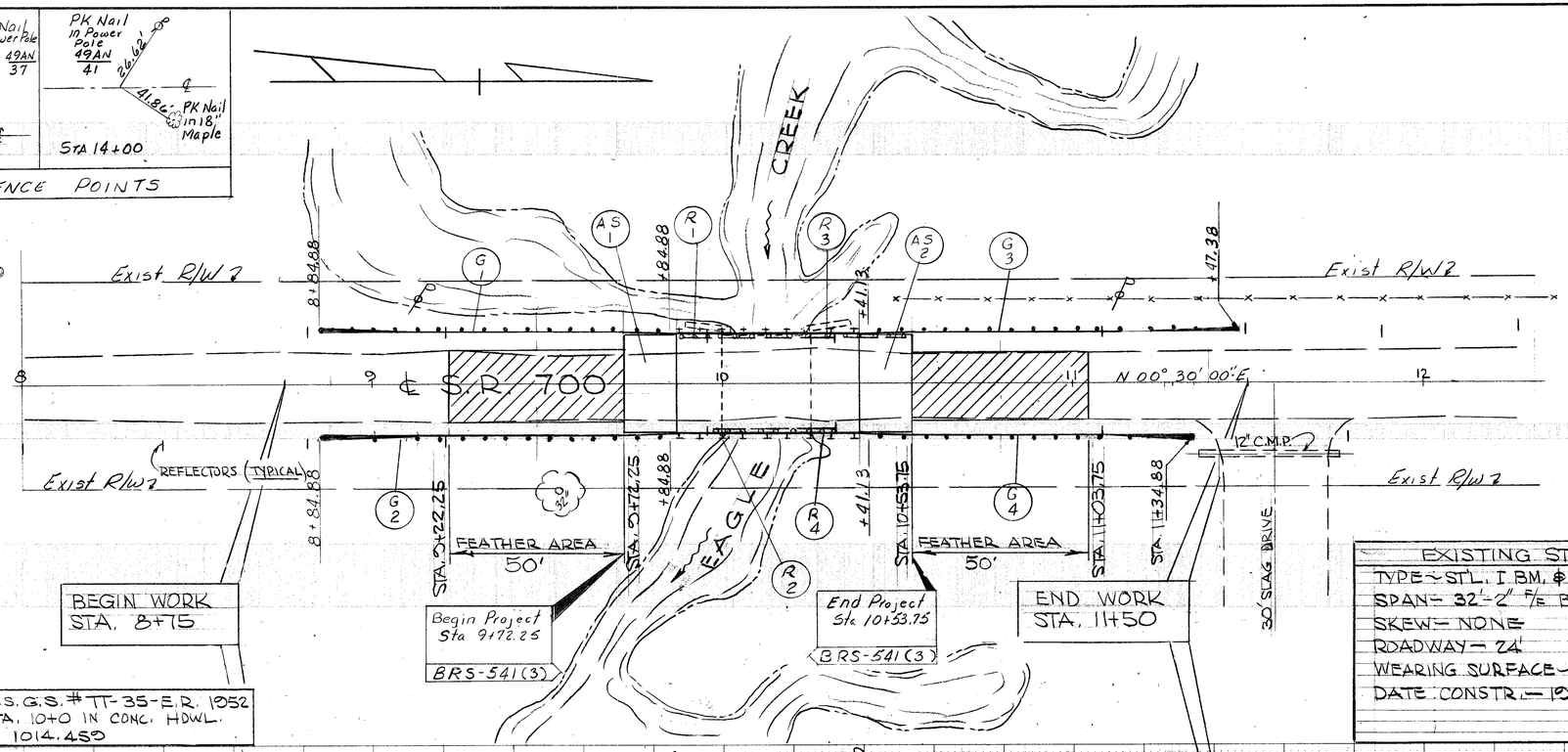
Calc By C.L.M.
Date 8/82
Chkd By W.D.P.
Date 9/82

PK Nail in Cherry Tree — 24.79' — 27.18' — 58° — PK Nail in Power Pole 49AN 37
STA 7+00 ℄

PK Nail in Power Pole 49AN 41 — 26.62' — 90° — 41.86' — PK Nail in 18" Maple
STA 14+00

℄ REFERENCE POINTS

MICROFILMED SEP 2, 1983



B.M. = U.S.G.S. # TT-35-E.R. 1952
LT. OF STA. 10+0 IN CONC. HDWL.
ELEVA. 1014.459

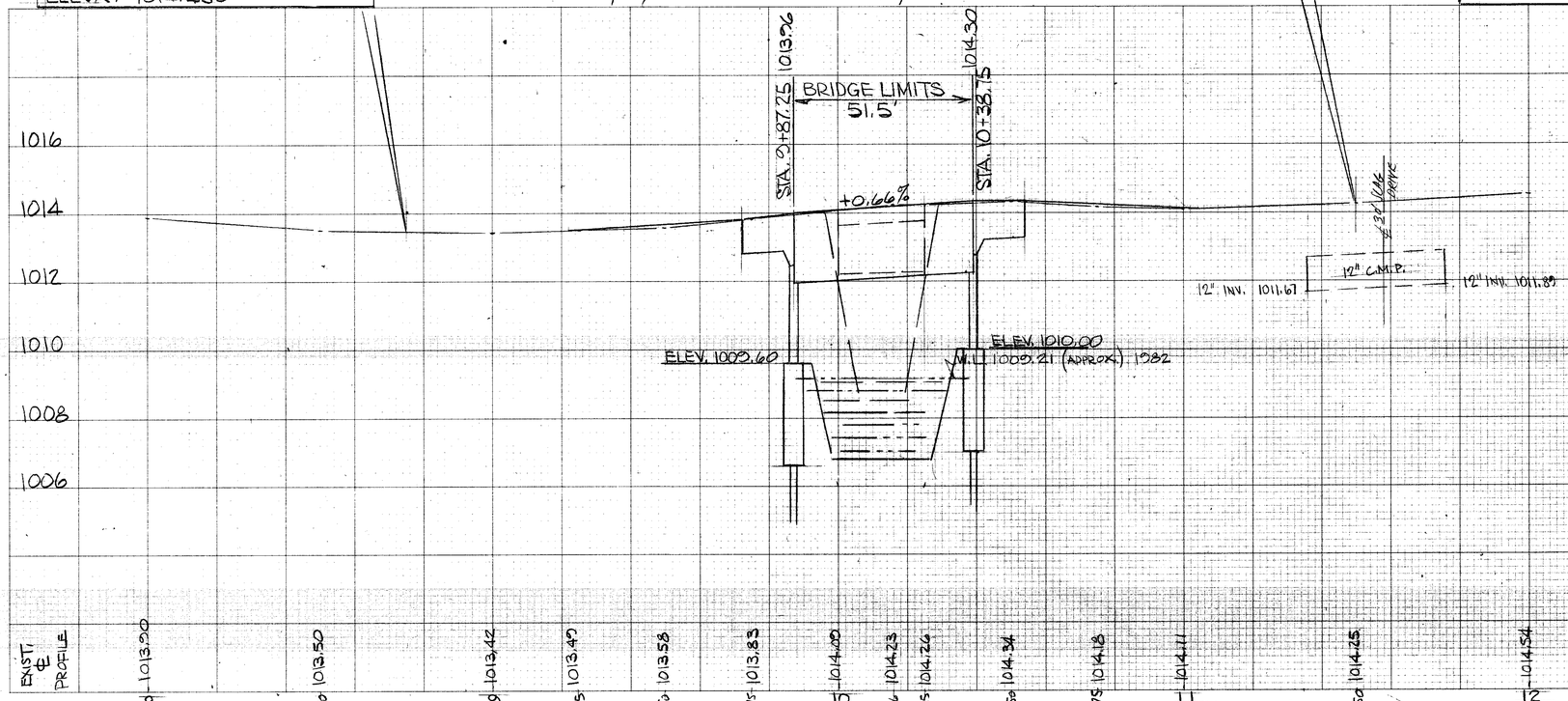
PROPOSED STRUCTURE

Type: Prestressed Concrete Box Beams With Reinforced Concrete Sub Structure
Spans: 50'-4" C/c Brgs.
Roadway: 28'-0" F/c Guard Rails
Live Load: HS20-44 And Alternate Military Loading
Skew Angle: 0°
Alignment: Tangent
Superelevation: None
Wearing Surface: Asphalt Concrete
Approach Slabs: 15'

EXISTING STRUCTURE

TYPE — STL. I BM. & TIMBER DECK
SPAN — 32'-2" F/E BACKWALLS
SKEW — NONE
ROADWAY — 24'
WEARING SURFACE — ASPH. CONC.
DATE CONSTR. — 1934

T.B.M. #1 — R.R. SPIKE IN S.E. SIDE OF P. POLE #49AN @ 25.5' LT. OF STA. 11+13. ELEVA. 1013.197



S. R. - 700 (POR-700 - 03.36)

MARK	STATION FROM	STATION TO	SIDE	202 Guard Rail Remvd Lin. Ft.	606 Guard Rail Type 5 Lin. Ft.	606 Anchor Assem'y Type A Ea.	606 Bridge Term'l Assem'y Type B Ea.	611 Approx Slab (T=12) Sq. Yd.
R-1	9+88	10+00	Lt.	12				
R-2	9+97	10+00	Rt.	3				
G-1	8+89.88	9+84.88	Lt.		75	1	1	
G-2	8+84.88	9+84.88	Rt.		75	1	1	
G-3	10+41.13	11+47.38	Lt.		81.25	1	1	
G-4	10+41.13	11+34.88	Rt.		68.75	1	1	
AS-1	9+72.25	9+87.25	℄					47
AS-2	10+38.75	10+53.75	℄					47
R-3	10+25	10+53	Lt.	28				
R-4	10+25	10+32	Rt.	7				
TOTALS				50	300	4	4	94

FINAL SURVEY — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — NOTE BOOK — NO. — DATE — BY

BRIDGE OVER EAGLE CREEK
STA. 8+00 To STA. 12+00 POR-700-03.36

ORIGINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

PLATE 3 "HIGHWAY RESEARCH AID SHEET"
FULL CROSS SECTION FULL LINE
INDIANAPOLIS, INDIANA
PRINTED IN U.S.A.

X-SEC. STA. 8+50 To STA. 12+00 — (POR-700-03.36)

Seeding LF	S.Y.				END AREA CU. YDS. CUT	FILL	EXC	EMB
			STA. 12+00	1014.84				
0		ZEA 11+32	STA. 11+50	1014.25	ZEA 11+32	0	0	0
		END GUARDRAIL STA. 11+47.38 LT.	END WORK STA. 11+50					
66			END FEATHER AREA STA. 11+03.75					
								0 8
37	11+00		STA. 11+00	1014.11	11+00	0	13	
	103							0 14
37	10+75		STA. 10+75	1014.18	10+75	0	16	
			END APPROACH SLAB STA. 10+53.75					
	103							11 14
37	10+50		STA. 10+50	1014.34	10+50	23	14	
			BEGIN APPROACH SLAB STA. 10+38.75					
	51							75 7
0	10+25		STA. 10+25	C-140 1014.26	10+25	140	0	
0								10 0
0		ZEA 10+21	STRUC. POR-700-03.36		ZEA 10+21	0	0	
			(BRIDGE LIMITS STA. 9+87.25 TO STA. 10+38.75)					
0		ZEA 10+04	STA. 10+00	C-135 1014.09	ZEA 10+04	0	0	
0	10+00		END APPROACH SLAB STA. 9+87.25		10+00	135	0	
								10 0
	50							72 11
36	9+75		STA. 9+75	C-20 1013.83	9+75	20	23	
	103		BEGIN APPROACH SLAB STA. 9+72.25					9 19
38	9+50		STA. 9+50	1013.58	9+50	0	17	
104								0 15
37	9+25				9+25	0	16	
	103		STA. 9+25	1013.40				0 14
37	9+00		BEGIN FEATHER AREA STA. 9+22.25		9+00	0	13	
	51							0 6
0		ZEA 8+75	STA. 9+00	1013.42	ZEA 8+75	0	0	
		BEGIN GUARDRAIL STA. 8+84.88 LT. & RT.	BEGIN WORK STA. 8+75		TOTAL		187	98
734			STA. 8+50 ℄	1013.50				

Calc By C.D.M. Date 8/82
Chkd By W.D.P. Date 9/82

FHWA REGION 5	STATE OHIO	PROJECT NO.	FUNDS

POR 700-03.36

6/10

SD 40 30 20 10 0 10 20 30 40

AA B'Pe 73202

RECEIVED
SEP 2. 1982

OHIO
FHWA REGION 5
7
10

POR-700-3.36

REFERENCE

REFERENCE SHALL BE MADE TO THE FOLLOWING:
STANDARD DRAWING NO. AS-1-81 DATED 11-27-81
STANDARD DRAWING NO. DBR-2-73 DATED 04-10-73
STANDARD DRAWING NO. PSBD-1-81 DATED 09-18-81

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1977, INCLUDING THE 1978, 1979 AND 1980 INTERIM SPECIFICATIONS AND THE OHIO "SUPPLEMENT" TO THESE SPECIFICATIONS.

DESIGN DATA

DESIGN LOADING: HS20-44 AND THE ALTERNATE MILITARY LOADING
CONCRETE CLASS C: COMPRESSIVE STRENGTH 4000 PSI FOR SUBSTRUCTURE
CONCRETE FOR PRESTRESSED CONCRETE BEAMS: MIN. COMPRESSIVE STRENGTH AT 28 DAYS 5500 PSI
MIN. COMPRESSIVE STRENGTH AT TIME OF INITIAL PRESTRESS 4000 PSI
UNIT STRESS 2200 PSI COMPRESSION
444 PSI TENSION
PRESTRESSING STEEL: ASTM A416 GRADE 270, 1/2" DIAMETER, 7 WIRE, UNCOATED, STRESS-RELIEVED STRAND.
ULTIMATE STRENGTH 270,000 PSI
INITIAL STRESS 189,000 PSI
REINFORCING STEEL: ASTM A615, A616, OR A617 - GRADE 60
MINIMUM YIELD STRENGTH 60,000 PSI
DECK PROTECTIVE METHOD: TYPE D WATERPROOFING AND ASPHALT CONCRETE WEARING SURFACE, STEEL DRIP STRIP

REMOVAL OF EXISTING STRUCTURE

WHEN NO LONGER NEEDED TO MAINTAIN TRAFFIC THE EXISTING STRUCTURE SHALL BE REMOVED.

C.I.P. REINF. CONC. PILES

PILES SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 40 TONS PER PILE FOR THE ABUTMENTS.

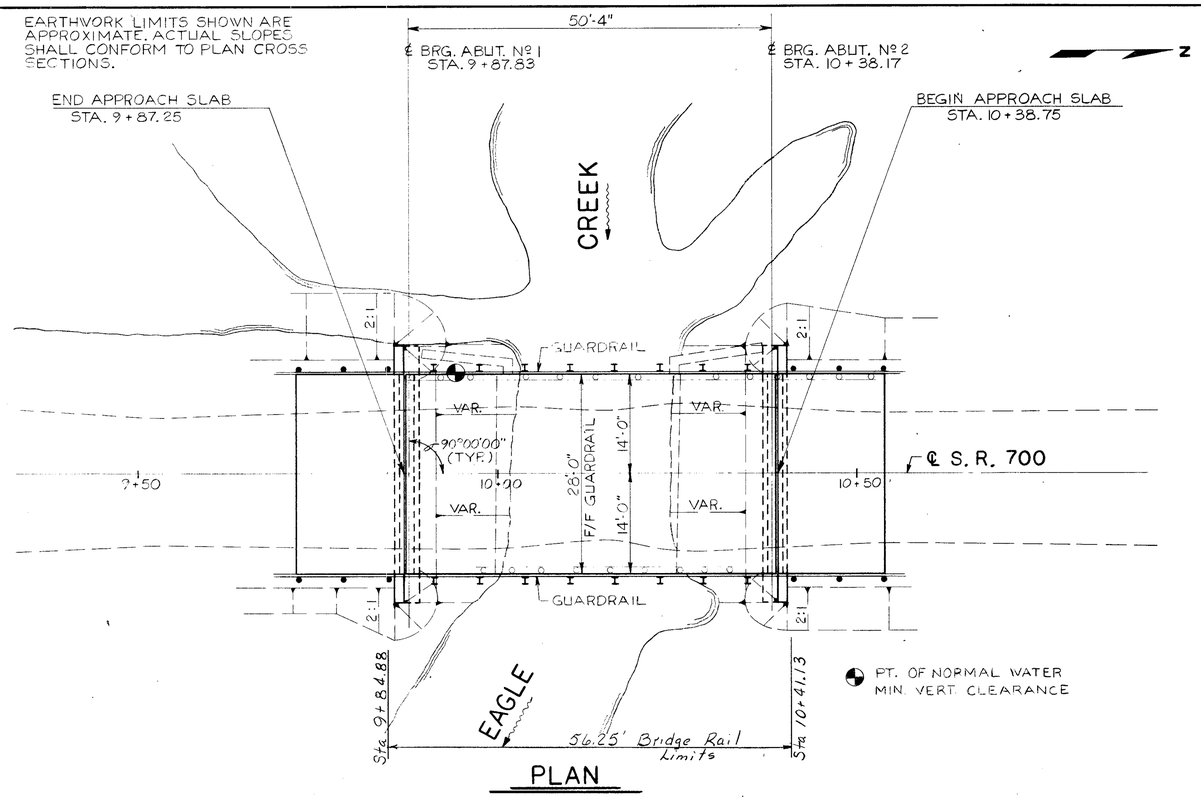
ASPHALT CONCRETE SURFACE COURSE

ASPHALT CONCRETE SURFACE COURSE SHALL CONSIST OF A VARIABLE THICKNESS OF 403 AND A 1-1/4" THICKNESS OF 404. THE 403 SHALL BE PLACED IN TWO OPERATIONS. THE FIRST COURSE SHALL BE OF 1-1/4" UNIFORM THICKNESS. THE SECOND COURSE SHALL BE FEATHERED TO PLACE THE SURFACE PARALLEL TO AND 1-1/4" BELOW FINAL PAVEMENT SURFACE ELEVATION.

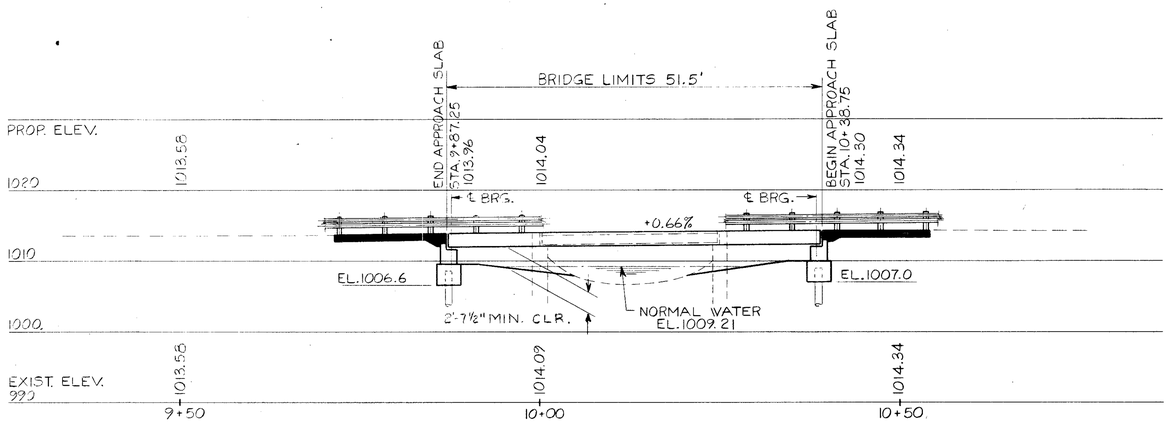
ITEM SPECIAL, STEEL DRIP STRIP

PRIOR TO APPLYING THE WATERPROOFING TO THE BRIDGE DECK, A BENT STEEL DRIP STRIP SHALL BE INSTALLED ALONG THE EDGES OF THE DECK AS SHOWN IN THE PLANS. THE STRIPS SHALL BE 8" WIDE, EITHER GALVANIZED OR STAINLESS STEEL. STEEL FOR THE GALVANIZED STRIPS SHALL BE 0.105" THICK AND SHALL MEET THE REQUIREMENTS OF ASTM A568. GALVANIZING SHALL BE AS PER 711.02. STAINLESS STEEL STRIPS SHALL BE 20 GAUGE, PER ASTM A167, TYPE 304, MILL FINISH.

THE STRIPS SHALL BE FASTENED AT 1'-6" C/C (MAXIMUM) WITH 1-1/4" X 5/32" X 1/4" (LENGTH X SHANK DIA. X HEAD DIA.) FLAT HEAD DRIVE PIN AND WASHER, OR #10 GALVANIZED SCREWS WITH EXPANSION ANCHORS, SUBJECT TO THE APPROVAL OF THE ENGINEER. THE STRIPS SHALL BE PLACED THE FULL LENGTH OF THE DECK. PAYMENT SHALL BE MADE AT THE CONTRACT BID PRICE PER SQ. FT. FOR ITEM SPECIAL, STEEL DRIP STRIP, WHICH SHALL INCLUDE ALL LABOR, MATERIALS, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE ITEM AS SPECIFIED.



PLAN



PROFILE ALONG ℄ S. R. 700

EXISTING STRUCTURE

TYPE:	STEEL BEAMS WITH TIMBER DECK AND CONCRETE ABUTMENTS.
SPANS:	32'-2" F/F BACKWALLS
ROADWAY:	24'-0" F/F GUARD RAILS
SKEW ANGLE:	0°
DESIGN CAPACITY:	
WEARING SURFACE:	ASPHALT CONCRETE
DATE BUILT:	1934 (APPROX.)

PROPOSED STRUCTURE

TYPE:	PRESTRESSED CONCRETE BOX BEAMS WITH REINFORCED CONCRETE SUBSTRUCTURE.
SPANS:	50'-4" C/C BRGS.
ROADWAY:	28'-0" F/F GUARD RAILS
LIVE LOAD:	HS20-44 AND ALTERNATE MILITARY LOADING
SKEW ANGLE:	0°
ALIGNMENT:	TANGENT
SUPERELEVATION:	NONE
WEARING SURFACE:	ASPHALT CONCRETE
APPROACH SLABS:	15'
TRAFFIC DATA:	

DRAINAGE DATA

AREA = 5.22 SQ.MI
Q100 = 1239 C.F.S.
100 YR. H.W. EL. = 1013.4

ESTIMATED AVERAGE PAY LENGTH OF 12" C.I.P. REINFORCED CONCRETE PILES:
ABUT. Nº 1 = 90'
ABUT. Nº 2 = 90'

GPD
1/4
GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN, INC.
AKRON, OHIO

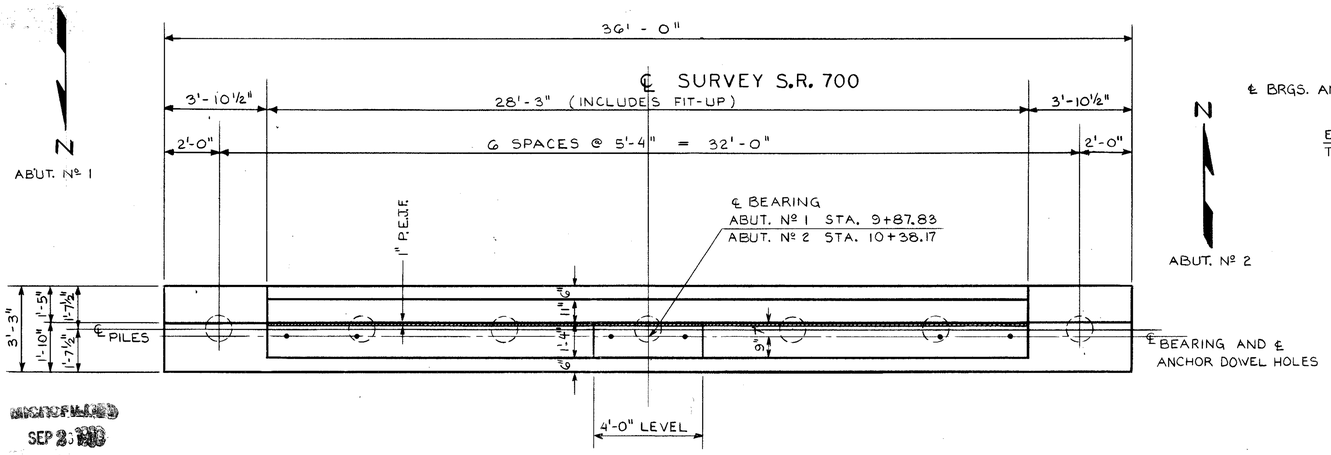
GENERAL PLAN

BRIDGE Nº POR-700-0336
S. R. 700 OVER EAGLE CREEK

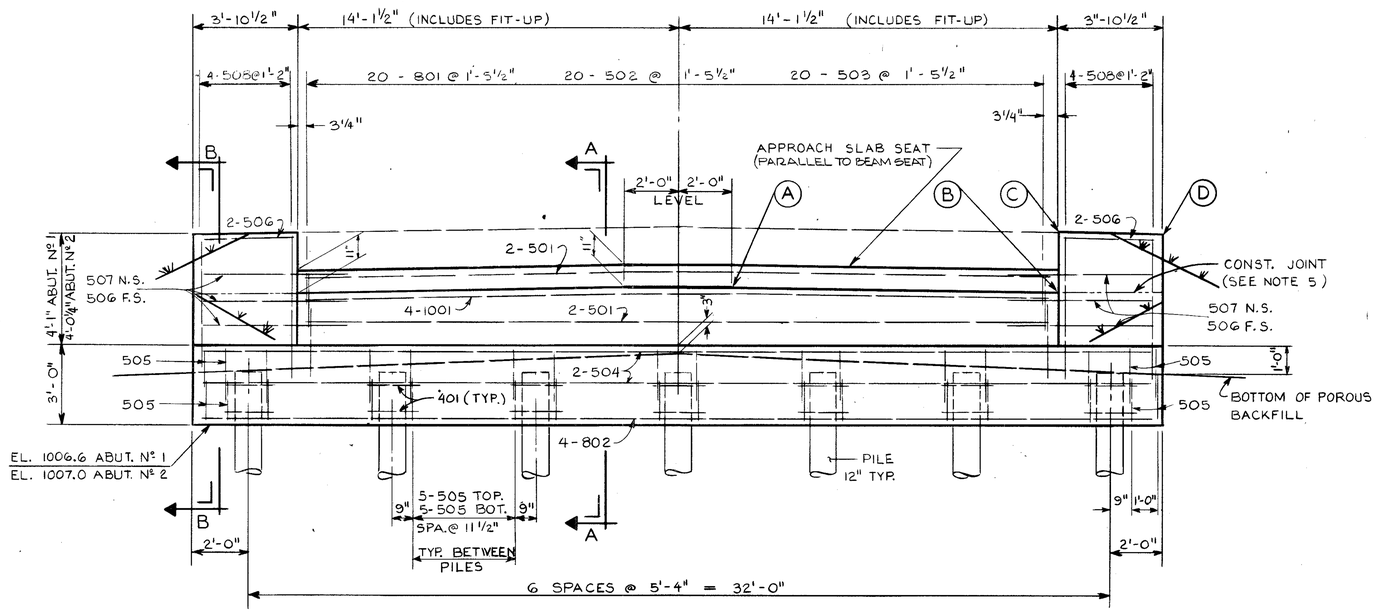
STA. 9+87.25 TO STA. 10+38.75

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
KSJ	R.L.W.		KSJ	RAH	8-11-82	

AA B/Pe 73202

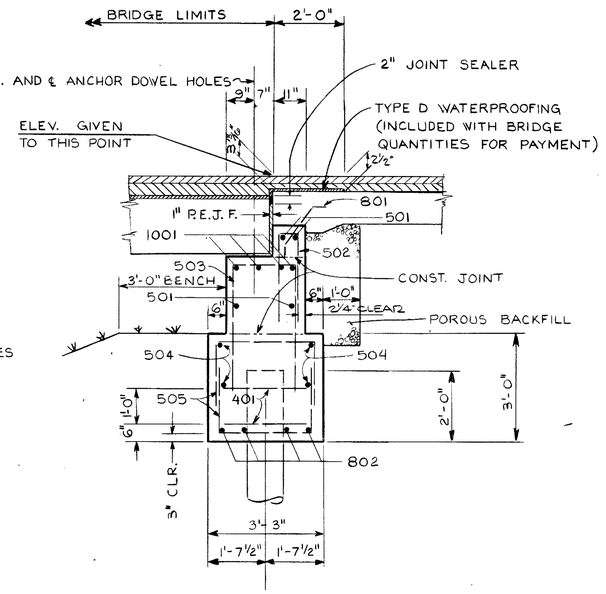


PLAN

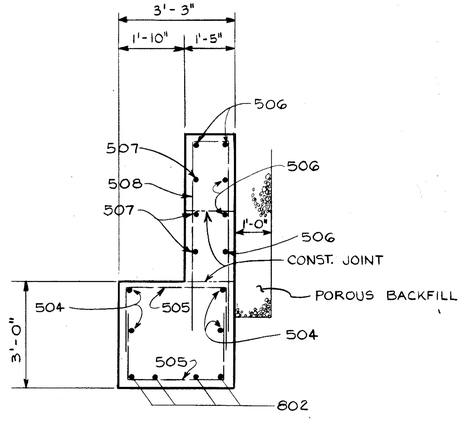


ELEVATION

POINT	ABUTMENT	
	Nº 1	Nº 2
A	1011.80	1012.13
B	1011.61	1011.94
C	1013.74	1014.08
D	1013.68	1014.02



SECTION A-A



SECTION B-B

NOTES

1. PREFIXES "1A" AND "2A" WILL BE ADDED TO ALL REBAR MARKS SHOWN FOR ABUTMENT NO. 1 AND ABUTMENT NO. 2 RESPECTIVELY. SEE REINFORCING SCHEDULE.
2. MINIMUM CLEARANCE TO REBARS SHALL BE 2" UNLESS NOTED OTHERWISE.
3. POROUS BACKFILL SHALL EXTEND UPWARD TO THE PLANE OF THE SUBGRADE, AND LATERALLY TO THE SURFACE OF THE EMBANKMENT SLOPES.
4. BRIDGE SEAT REINFORCING: REINFORCING STEEL IN THE VICINITY OF THE BRIDGE SEAT SHALL BE ACCURATELY PLACED TO AVOID INTERFERENCE WITH THE DRILLING OF ANCHOR HOLES.
5. CONCRETE ABOVE CONSTRUCITON JOINT SHALL BE PLACED AFTER ALL PRESTRESSED BEAMS ARE POSITIONED.

HJB
2/4
SEALS, PYLE, SCHOMER, BURNS & DeHAVEN, INC.
AKRON, OHIO

ABUTMENT DETAILS

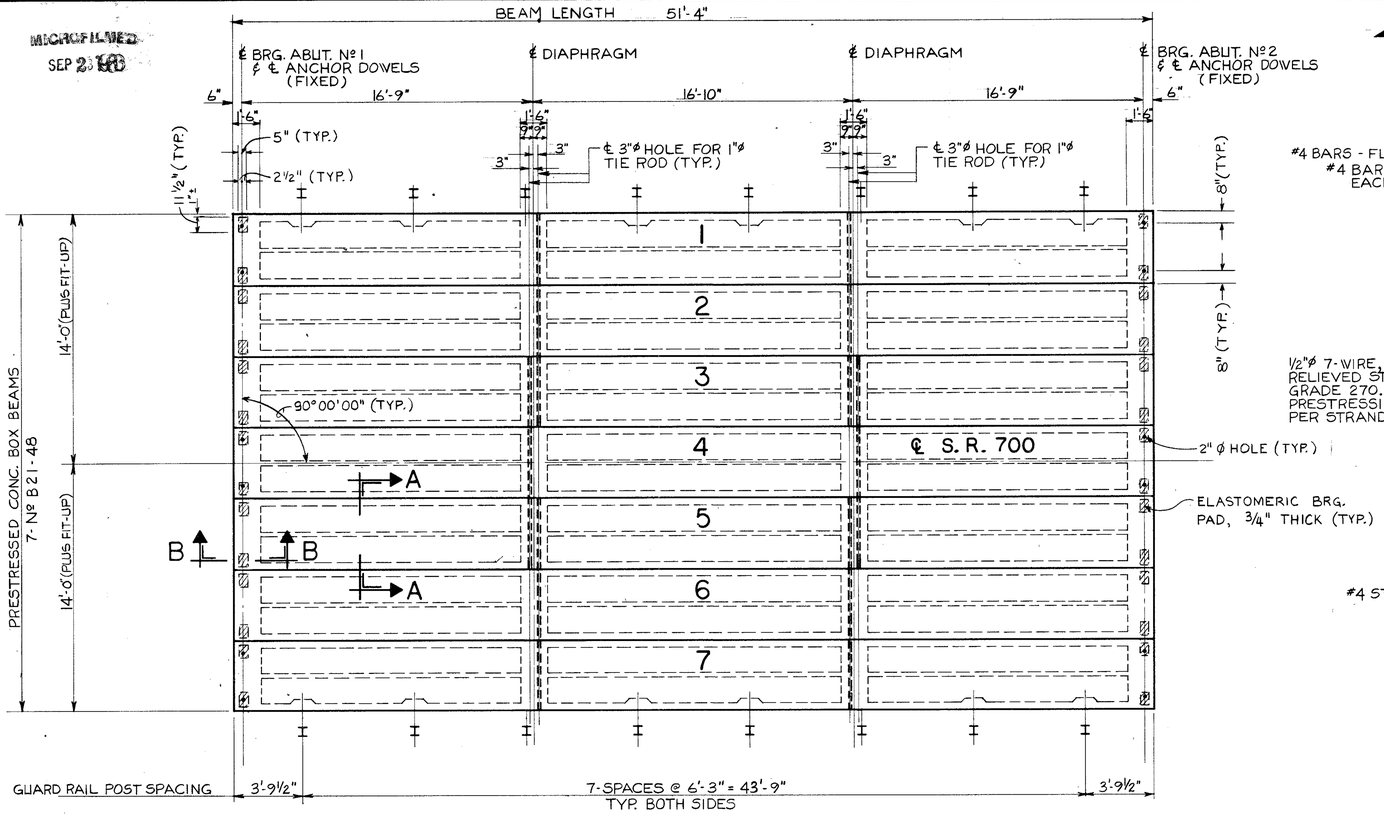
BRIDGE Nº POR-700-0336
S. R. 700 OVER EAGLE CREEK

STA. 9+87.25 TO STA. 10+38.75

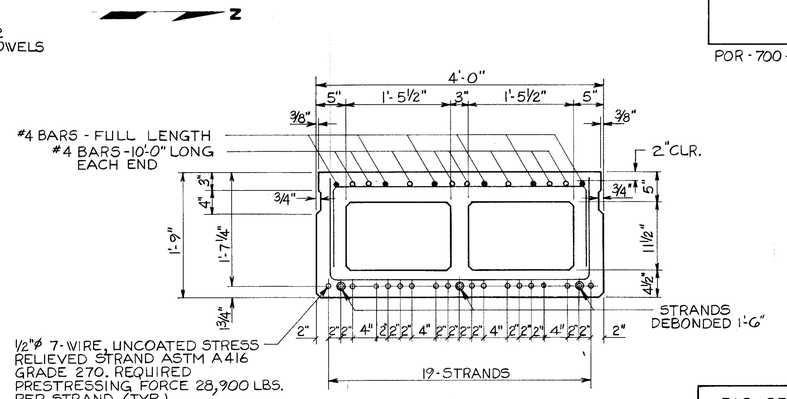
DES. RES.	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
DHG	DHG		JRS	RAH	8-11-82	

AA B/Pe 73202

MICROFILMED
SEP 23 '83

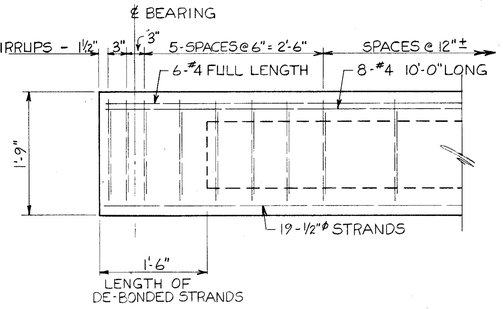


BEAM LAYOUT PLAN



SECTION A-A

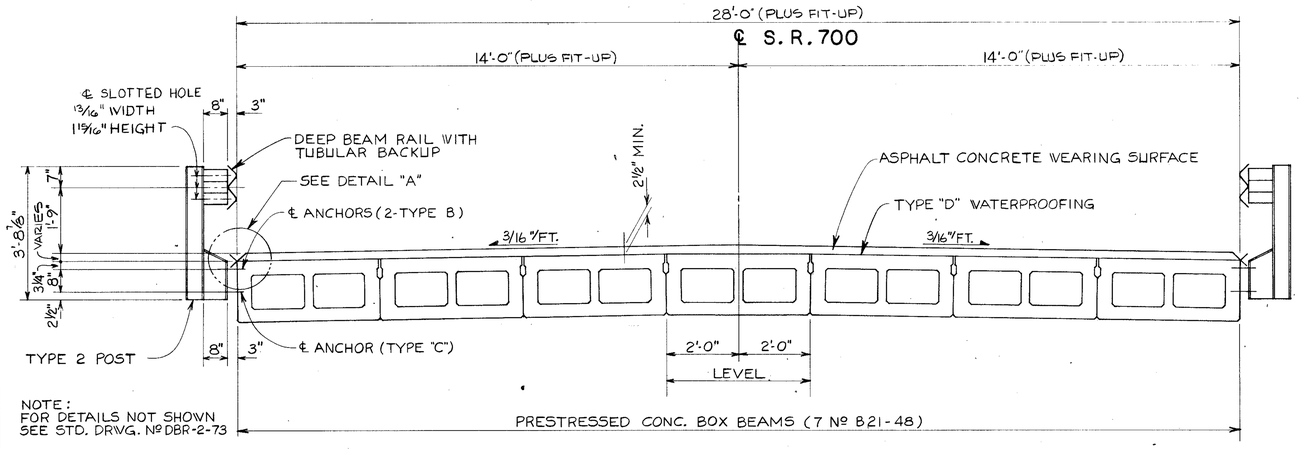
BEAM B21-48



SECTION B-B

FOR DETAILS OF :	SEE STD. DWG Nº. PSBD-1-81
BEAM LIFTING INSERTS	SHEET Nº 1 OF 4
ANCHOR DOWELS	
SECTION SHOWING WALL THKNG. AT GUARD RAIL ANCHORS	
SECTION A-A (SHOWING DRAIN HOLES)	SHEET Nº 2 OF 4
END DETAILS OF TRANSVERSE TIE ROD ANCHORAGE	
NORMAL CROWN TREATMENT @ ℄ ROADWAY (JOINT OFFSET FROM ℄)	
BEAM DIMENSIONAL TOLERANCES	SHEET Nº 3 OF 4
PRESTRESSED CONC. BOX BEAMS (B21-48)	

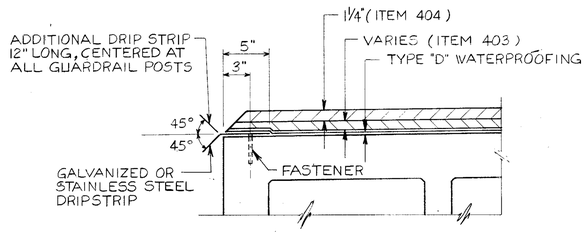
FOR NOTES ON :	SEE STD DWG Nº PSBD-1-81
TRANSVERSE TIE RODS GALVANIZING ANCHOR DOWELS NON-SHRINKING MORTAR & GROUT MORTARING OF SHEAR KEYS	SHEET Nº 1 OF 4



NOTE:
FOR DETAILS NOT SHOWN SEE STD. DRWG. Nº DBR-2-73

TYPICAL TRANSVERSE SECTION

NOTE:
OMIT KEYWAY ON OUTSIDE OF BEAMS 1 ℄ 7



DETAIL "A"

DRIP STRIP DETAIL

NOTES

1. FOR BEAM CAMBER, SEE SHT. NO. 4/4
2. FOR NOTES ON STEEL DRIP STRIP, SEE SHEET NO. 1/4
3. BEARING PADS: ALL ELASTOMERIC BEARING PADS SHALL BE OF DUROMETER 70 HARDNESS, AND CONFORM TO 711.23.
4. BEAM MANUFCTURER SHALL TAKE EXTRA CARE IN STORING BEAMS PRIOR TO SHIPMENT TO SITE. THEY SHALL BE STORED IN THE POSITION WHICH SHALL CORRESPOND WITH THEIR ERECTED POSITION.

3/4

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN, INC.
AKRON, OHIO

SUPERSTRUCTURE DETAILS

BRIDGE Nº POR-700-0336
S. R. 700 OVER EAGLE CREEK

STA. 9+87.25 TO STA. 10+38.75

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
DHG	R.L.W.		KSJ		8-1182	

AA 11/74 73202

MICROFILMED
SEP 2 1983

ABUTMENT NO. 1

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
1A401	14	9' 4''	107	2' 7 3/4''	1' 9''			87
1A501	4	27'11''	ST					116
1A502	20	4'11''	103	0' 7''	2' 3''			103
1A503	20	9' 3''	103	1'11''	3' 9''			193
1A504	4	35' 8''	ST					149
1A505	68	6'11''	103	2'11''	2' 1''			491
1A506	10	3' 7''	ST					37
1A507	6	5' 2''	ST					32
1A508	8	11'11''	103	1' 1''	5' 6''			99
1A801	20	4' 2''	121	1' 7 1/2''	1' 5''			222
1A802	4	35' 8''	ST					381
1A1001	4	27'11''	ST					481
							TOTAL	2,391

ABUTMENT NO. 2

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
2A401	14	9' 4''	107	2' 7 3/4''	1' 9''			87
2A501	4	27'11''	ST					116
2A502	20	4'11''	103	0' 7''	2' 3''			103
2A503	20	9' 3''	103	1'11''	3' 9''			193
2A504	4	35' 8''	ST					149
2A505	68	6'11''	103	2'11''	2' 1''			491
2A506	10	3' 7''	ST					37
2A507	6	5' 2''	ST					32
2A508	8	11'11''	103	1' 1''	5' 6''			99
2A801	20	4' 2''	121	1' 7 1/2''	1' 5''			222
2A802	4	35' 8''	ST					381
2A1001	4	27'11''	ST					481
							TOTAL	2,391

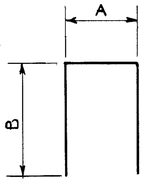
SUMMARY AND GRAND TOTAL OF BAR WEIGHTS

ABUTMENT NO. 1	2,391
ABUTMENT NO. 2	2,391
GRAND TOTAL	4,782

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER	ABUT	GENERAL
202	LUMP	L.S.	STRUCTURE REMOVED			LUMP
403	9	C.Y.	ASPHALT CONCRETE (AC-20)	9		
404	6	C.Y.	ASPHALT CONCRETE (AC-20)	6		
503	LUMP	L.S.	COFFERDAMS, CRIBS AND SHEETING		LUMP	
503	74	C.Y.	UNCLASSIFIED EXCAVATION		74	
505	LUMP	L.S.	TEST PILE		LUMP	
507	1260	L.F.	12" CAST-IN-PLACE REINFORCED CONCRETE PILES		1260	
509	4782	LB.	REINFORCING STEEL, GRADE 60		4782	
511	40	C.Y.	CLASS C CONCRETE, ABUTMENTS		40	
512	174	S.Y.	TYPE D WATERPROOFING	174		
515	7	EA.	PRESTRESSED CONCRETE BRIDGE MEMBERS (B21-48)(51'-4" LONG)	7		
516	89	S.F.	1" PREFORMED EXPANSION JOINT FILLER	89		
516	56	L.F.	JOINT SEALER 705.01 OR 705.02	56		
516	28	EA.	3/4" X 11-1/2" X 5" ELASTOMERIC BEARING PADS	28		
516	14	EA.	1/8" PREFORMED BEARING PADS 11-1/2" X 5", 711.21	14		
517	112.5	L.F.	RAILING (DEEP BEAM RAIL WITH TUBULAR BACK-UP, TYPE 2, STEEL POSTS AND BOLTS	112.5		
518	15	C.Y.	POROUS BACKFILL		15	
523	3	HR.	DYNAMIC PILE TESTS		3	
SPECIAL	68	S.F.	STEEL DRIP STRIP	68		

STANDARD BAR TYPES



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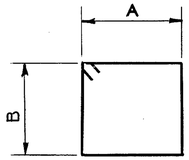

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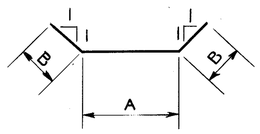


121

CAMBER

CALCULATED CAMBER AT TIME OF PAVING, INCLUDING ALLOWANCE FOR CAMBER GROWTH DUE TO CREEP IS 1-5/8".
CALCULATED DEFLECTION DUE TO WEIGHT OF SURFACE COURSE AND RAILING IS 5/16".
CAMBER OF 0" AT CENTER OF SPANS IS REQUIRED FOR CREST VERTICAL CURVE.
NET FINAL CAMBER OF BEAMS IS 1-5/16". THIS IS 1-5/16" IN EXCESS OF THE AMOUNT REQUIRED TO PLACE THE TOP OF THE BEAM PARALLEL TO PROFILE GRADE. THIS EXCESS AMOUNT SHALL BE COMPENSATED FOR BY THICKENING THE 403 LEVELING COURSE FROM 1-1/4" AT CENTER OF SPANS TO 2-9/16" AT ENDS OF SPANS.

BAR SIZE AND LOCATION ARE INDICATED IN THE BAR MARK. THE FIRST DIGIT AND ALPHABETICAL LETTER INDICATE LOCATION. THE NEXT DIGIT OF A THREE DIGIT SERIES, OR THE NEXT TWO DIGITS OF A FOUR DIGIT SERIES INDICATE BAR SIZE NUMBER.

EXAMPLES: 1A501
- NO. 5 SIZE BAR
- LOCATION = ABUT. NO. 1

ALL BAR DIMENSIONS ARE GIVEN OUT TO OUT.

REINFORCING STEEL SAMPLES

REFER TO CMS SECTIONS 106.03, 700, 709.01 THROUGH 709.05 AND 709.08. SUFFICIENT ADDITIONAL REINFORCING STEEL SHALL BE PROVIDED FOR SAMPLING. RANDOM SAMPLES SHALL BE REPLACED IN THE STRUCTURES BY THE ADDITIONAL STEEL, SPLICED IN ACCORDANCE WITH 509.08.

HPD
GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN, INC.
AKRON, OHIO

4/4

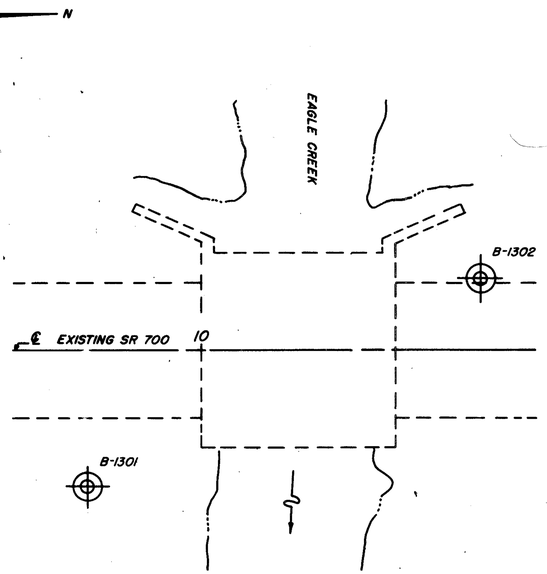
MISCELLANEOUS DETAILS

BRIDGE Nº POR-700-0336
S. R. 700 OVER EAGLE CREEK

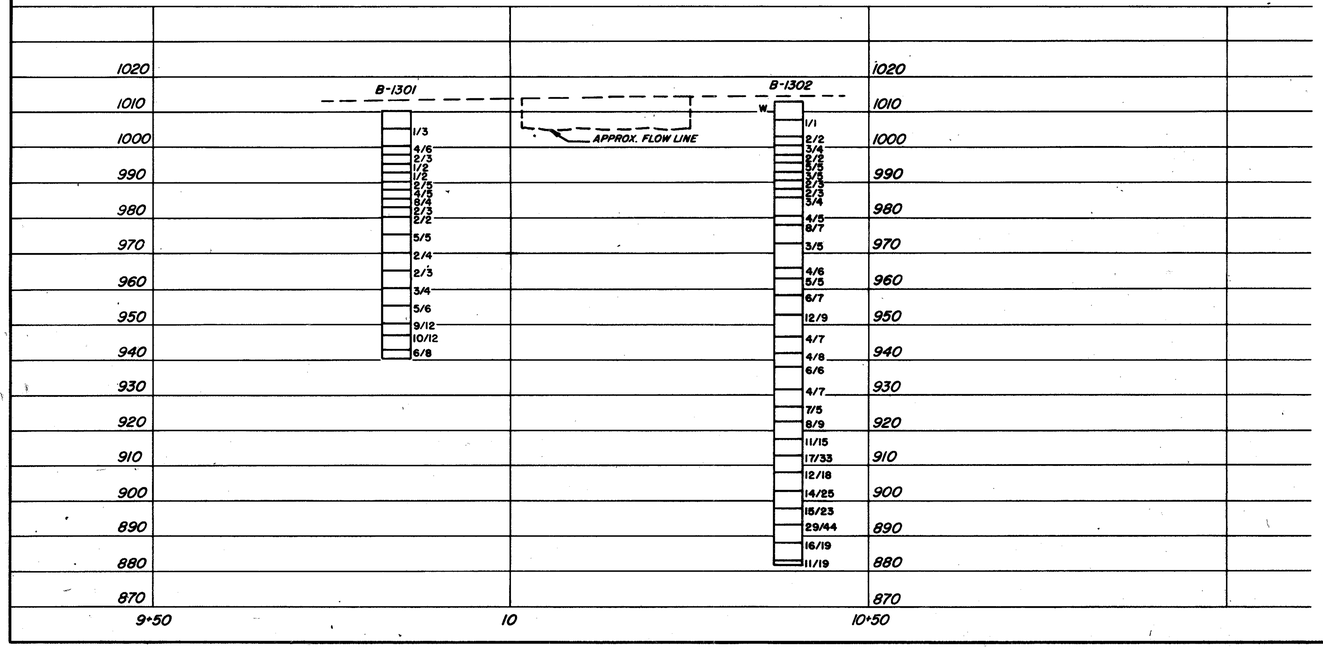
STA. 9+87.25 TO STA. 10+38.75

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
DHG	DHG		JRS		8-11-82	

MICROFILMED
SEP 2 1983



SCALE HOR 1"=10'
VER 1"=20'



GEOLOGY OF THE SITE

THE STRUCTURE SITE IS LOCATED ON THE GLACIATED PLATEAU PHYSIOGRAPHIC SECTION OF OHIO AND OVER A BURIED BEDROCK VALLEY. THIS VALLEY IS FILLED WITH MOSTLY GRANULAR OUTWASH, WHICH IS OVERLAIN BY RECENT ALLUVIUM. SHALE AND SANDSTONE BEDROCK OF PENNSYLVANIAN AGE LIES AT AN APPROXIMATE DEPTH OF 150 FEET.

EXPLORATION

BETWEEN MAY 4 AND 13, 1982, TWO BORINGS WERE DRILLED NEAR OPPOSITE CORNERS OF THE PROPOSED STRUCTURE. CONVENTIONAL, SOLID-STEM AUGERS WERE USED TO ADVANCE THE BORINGS TO DEPTHS OF 20 FEET AND ROTARY DRILLING METHODS USING WATER WERE EMPLOYED TO COMPLETE THE BORINGS.

INVESTIGATIONAL FINDINGS

THREE FEET OF SAND FILL WERE REVEALED AT THE LOCATION OF BORING B-1302. BENEATH THIS FILL, AND FROM THE GROUND SURFACE AT BORING B-1301 TO DEPTHS OF 22 AND 29.5 FEET, WERE MOSTLY STRATA OF SOFT TO VERY-STIFF, PARTLY ORGANIC, COHESIVE SOILS WITH SEVERAL LAYERS OF VERY-LOOSE TO LOOSE SAND AND SILT. BELOW THESE STRATA THE SOILS TO COMPLETION DEPTHS OF 70.0 AND 131.5 FEET (ELEVATIONS 940 AND 882) WERE ENTIRELY GRANULAR, AND THE DEGREE OF COMPACTNESS GRADUALLY INCREASED FROM LOOSE THROUGH MEDIUM-DENSE, TO A DEPTH OF 100 FEET (ELEVATION 914) IN BORING B-1302, WHERE DENSE SAND WAS ENCOUNTERED.

WATER WAS ENCOUNTERED AT DEPTHS OF 1.5 AND 3.0 FEET, AND WAS CLOSE TO THE LEVEL OF THE ADJACENT STREAM AT THE TIME OF THE INVESTIGATION. AT A DEPTH OF 29.5 FEET IN BORING B-1302, THERE WAS A SLIGHT ARTESIAN FLOW OF WATER FROM THE BORING, BUT AT COMPLETION THREE DAYS LATER THE FLOW HAD CEASED AND THE WATER LEVEL IN THE BORING WAS MEASURED AT A DEPTH OF 3 FEET.

ADDITIONAL SOIL INFORMATION All available soil and bedrock information which can be conveniently shown on the soil profile and/or structure foundation investigation sheets has been so reported. Additional subsurface investigations may have been made to study some special aspect of the project. Copies of this data, if any, may be inspected in the District Deputy Director's Office, the Bureau of Tests at 1600 West Broad Street, the Pavement and Soils Section of the Bureau of Location and Design or in the Bridge Bureau at 25 South Front Street.

LOG OF BORING NO. B-1301

BRIDGE NO. POR-700-0336

LOCATION: Sta. 9 + 84, 19 Rt. ELEVATION: 1010.2 DATE: 5/10-13/82

SAMPLER(S): 2" O.D. Split-barrel

DRILLING METHOD: 4¼" Auger to 20.0', then rotary to completion COMPLETION DEPTH: 70.0'

DEPTH, FEET	SAMPLE NUMBER	SAMPLING EFFORT	DESCRIPTION	TEST RESULTS
0			Topsoil	
	1A 1B	1/3	Med-stiff brown silty clay, little fine sand. Est. A-6b	
5			Med-stiff gray silty clay, some f sand, contains decayed wood. Est. A-3a	H=0.5-0.7
			Loose gray & brown coarse & fine sand, trace fine gravel, little silt and clay, contains decayed wood. Est. A-3a	
10	2A 2B	4/6 2/3	Soft to very-stiff brown and gray silt and clay, and silty clay, trace fine sand, contains seams of silt.	H=3.2
	3	1/2 1/3		H=0.5-1.0
15	4	1½ 1/2		H=0.5-1.0
	5	1½ 1/2		H=0.5-0.7
20	6A 6B	2/3	A-6a, A-6b, Est. A-4b	H=0.5
	7	3/4 2/3	Very-loose to loose gray silt, trace to some sand, trace to little clay, gradation varies with depth.	
25	8	6/8 3/4	GRADATION ON SAMPLE NO. 7 AGG. 0% C.S. 1% F.S. 2% SILT 83% CLAY 14%	
	9	3/5 2/3		
30	10	2/2 2/2	GRADATION ON SAMPLE NO.12 AGG. 2% C.S. 2% F.S. 20% SILT 70% CLAY 6%	
	11	3/5 2/3	A-4a	
40	12	3/4 2/4		
	13	2/3 2/3		
50	14	3/4 3/4	Loose to med-dense gray coarse & f sand, little silt. Est. A-3a	
55	15A 15B	3/5 3/5	Med-dense gray silt in/b with fine sand. Est. A-4b, A-3	
60	16	9/9 9/12	Med-dense gray coarse and fine sand, trace to little silt, trace fine gravel. A-3a GRADATION ON SAMPLE NO. 16 AGG. 1% C.S. 23% F.S. 65% SILT & CLAY 11%	
65	17	9/10 9/12		
70	18	5/6 5/8	Encountered water at 1.5'. Used 4¼" dia. conventional auger to 20.0', then 3-1/8" tricone bit and water.	
75				

NATURAL CONSISTENCY INDEX — NATURAL MOISTURE CONTENT — PLASTIC LIMIT — LIQUID LIMIT (10 20 30 40)

WATER LEVEL: 0.0' DATE: 5/13/82

SYMBOLS USED TO INDICATE TEST RESULTS
G - GRADATION
U - UNCONFINED COMPR.
T - TRIAXIAL COMPR.
C - CONSOLIDATION
(USE SEPARATE CURVES)
M - PENETROMETER (tsf)
W - UNIT WEIGHT (pcf)
D - RELATIVE DENSITY (%)

LOG OF BORING NO. B-1302

BRIDGE NO. POR-700-0336

LOCATION: Sta. 10 + 39, 10' Lt. ELEVATION: 1013.8 DATE: 5/4-7/82

SAMPLER(S): 2" O.D. Split-barrel

DRILLING METHOD: 4¼" Auger to 20.0', then rotary to completion COMPLETION DEPTH: 131.5'

DEPTH, FEET	SAMPLE NUMBER	SAMPLING EFFORT	DESCRIPTION	TEST RESULTS
0			Asphalt Pavement	
	1	1-12" 1-6"	Fill: Med-dense black sand, lit. gravel, little silt.	
5			Med-stiff to stiff gray & brown organic clay, little f sand, contains decayed vegetation.	H=0.5-1.2
	2	½ ½	Stiff gray organic sandy silt, contains seams of silt, contains decayed vegetation.	H=1.0-1.7
10	3A 3B	½ ¾	Loose gray organic silt, little clay, little sand. A-4b GRADATION ON SAMPLE NO. 3B AGG. 0% C.S. 1% F.S. 15% SILT 67% CLAY 17%	H=2.7
	4A 4B	2 2	Very-loose gray c & f sand, some f gravel, little org. silty clay. Est. A-3a	H=2.5
15	5	3/5 3/5		H=2.2-3.7
	6	2/3 2/3	Very-stiff gray silt & clay, trace f sand, in/b w/silt. A-6a	H=0.5-0.7
20	7	2/3 2/3	Medium-stiff to stiff gray silty clay mixed and interbedded with silt. Est. A-4b, A-6b	H=1.0-1.2
25	8	2/3 2/3		H=0.7-1.2
	9	2/3 2/4		H=0.7
30			- CONTINUED -	

NATURAL CONSISTENCY INDEX — NATURAL MOISTURE CONTENT — PLASTIC LIMIT — LIQUID LIMIT (10 20 30 40)

LOG OF BORING NO. B-1302

BRIDGE NO. POR-700-0336

DEPTH, FEET	SAMPLE NUMBER	SAMPLING EFFORT	DESCRIPTION	TEST RESULTS
30			- FROM 29.0' -	
	10	2/3 2/3	Loose gray coarse & fine sand, little gravel, some silt. A-3a GRADATION ON SAMPLE NO. 10 AGG. 24% C.S. 17% F.S. 36% SILT & CLAY 23%	
35	11A 11B	6/8 3/7	Med-dense gravel w/sand, trace silt. Est. A-2-4	
			Med-dense gray silt, little f sand. Est. A-4b	
40	12	3/5 3/5	Loose to medium-dense gray fine sand, little to some silt, trace coarse sand, trace fine gravel, gradation varies with depth, contains few thin seams of silty clay. A-3, A-3a GRADATION ON SAMPLE NO. 13 AGG. 1% C.S. 7% F.S. 63% SILT & CLAY 29%	
45				
50	13	6/8 3/5		
	14	3/5 3/5		
55	15A 15B	6/8 3/7	Interbedded medium-dense gray: coarse & fine sand, trace to some fine gravel; silt, fine sand; and silty clay. Est. A-3a, A-3, A-4b, A-6b	
60	16A 16B	7/12 3/9		
65			Med-dense gray silt in/b w/silt & clay, trace to some sand, few seams of fine sand. A-4b, Est. A-6a GRADATION ON SAMPLE NO. 17 AGG. 0% C.S. 3% F.S. 20% SILT 57% CLAY 20% GRADATION ON SAMPLE NO. 19 AGG. 0% C.S. 0% F.S. 7% SILT 63% CLAY 30%	
70	17	2/4 3/7		H=0.6
	18	3/4 3/8		H=0.4-0.8
75	19	5/6 3/7		H=1.8
80			Medium-dense to dense gray sandy silt, trace fine gravel, gradation varies with depth. Contains seams of silt. A-4a, A-4-b GRADATION ON SAMPLE NO. 21 AGG. 0% C.S. 2% F.S. 64% SILT & CLAY 34%	
85	20	3/4 3/7		
	21	5/5 5/5		
90	22A 22B	8/8 8/9	GRADATION ON SAMPLE NO. 24 AGG. 2% C.S. 4% F.S. 59% SILT & CLAY 35%	
95	23	7/11 7/15	GRADATION ON SAMPLE NO. 27 AGG. 0% C.S. 1% F.S. 66% SILT & CLAY 33%	
100	24	12/17 12/33	GRADATION ON SAMPLE NO. 29 AGG. 0% C.S. 0% F.S. 33% SILT 59% CLAY 8%	
105	25	8/12 8/18	Encountered water at 3.0'. Encountered slight artesian flow at 29.5'. Used 4¼" dia. conventional auger to 20.0', then 3-1/8" tricone bit and water.	
110	26	11/14 11/25		
115	27	9/13 9/23		
120	28	16/29 16/44		
125	29	13/16 13/19		
130	30	14/11 14/19		
135				

NATURAL CONSISTENCY INDEX — NATURAL MOISTURE CONTENT — PLASTIC LIMIT — LIQUID LIMIT

WATER LEVEL: 3.0' DATE: 5/7/82

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STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. POR-700-0336
OVER EAGLE CREEK

PLAN AND PROFILE

DRAWN BY	CHECKED BY	REVIEWED BY	DATE
R.F.C	M.H.M		