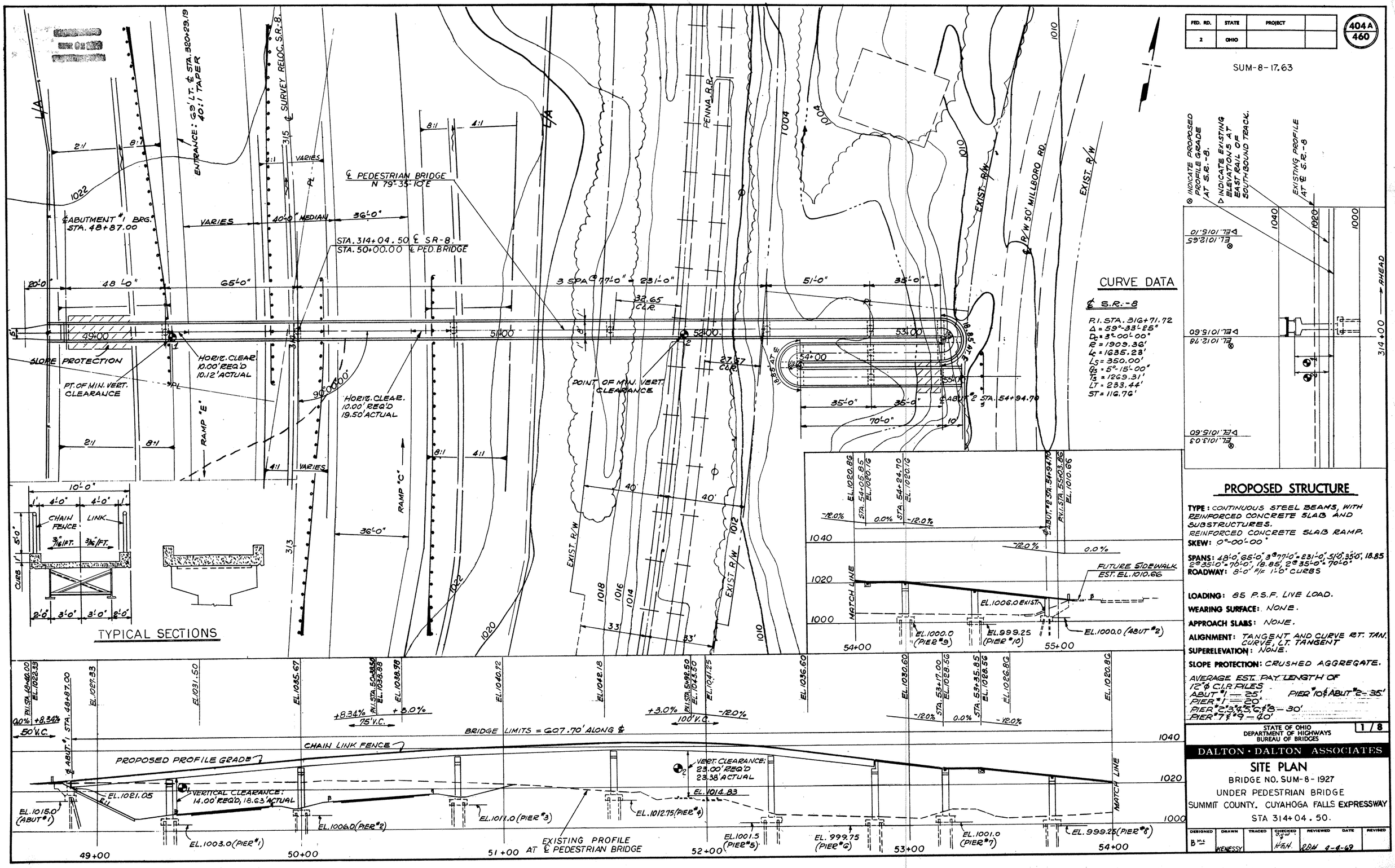
FED. RD.	STATE	PROJECT	
2	OHIO		

404 A / 460

SUM-8-17.63



CURVE DATA

℄ S.R.-8

P.I. STA. 316+71.72
Δ = 59°-33'-25"
D_a = 3°-00'-00"
R = 1909.36'
L_c = 1635.23'
L_s = 350.00'
θ_s = 5°-15'-00"
Ts = 1269.31'
LT = 233.44'
ST = 116.76'

⊗ INDICATE PROPOSED PROFILE GRADE AT S.R.-8.
△ INDICATE EXISTING ELEVATIONS AT EAST RAIL OF SOUTHBOUND TRACK.

EXISTING PROFILE AT ℄ S.R.-8

PROPOSED STRUCTURE

TYPE: CONTINUOUS STEEL BEAMS, WITH REINFORCED CONCRETE SLAB AND SUBSTRUCTURES.
REINFORCED CONCRETE SLAB RAMP.
SKEW: 0°-00'-00"
SPANS: 48'-0", 65'-0", 3 @ 77'-0" = 231'-0", 5'-0", 35'-0", 18.85, 2 @ 35'-0" = 70'-0"
ROADWAY: 8'-0" F/F 1'-0" CURBS

LOADING: 85 P.S.F. LIVE LOAD.
WEARING SURFACE: NONE.
APPROACH SLABS: NONE.
ALIGNMENT: TANGENT AND CURVE RT. TAN. CURVE, LT. TANGENT
SUPERELEVATION: NONE.
SLOPE PROTECTION: CRUSHED AGGREGATE.

AVERAGE EST. PAY LENGTH OF
12" ϕ C.I.P. PILES
ABUT #1 — 25'
PIER #1 — 20'
PIER #2, #3, #5, #6, #8 — 30'
PIER #7 & #9 — 40'
PIER #10 & ABUT #2 — 35'

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

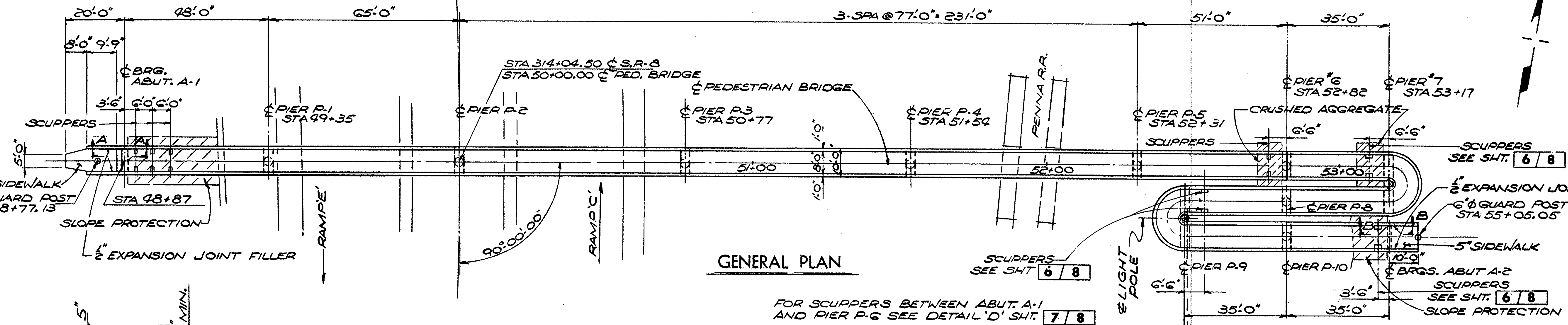
1 / 8

DALTON • DALTON ASSOCIATES

SITE PLAN

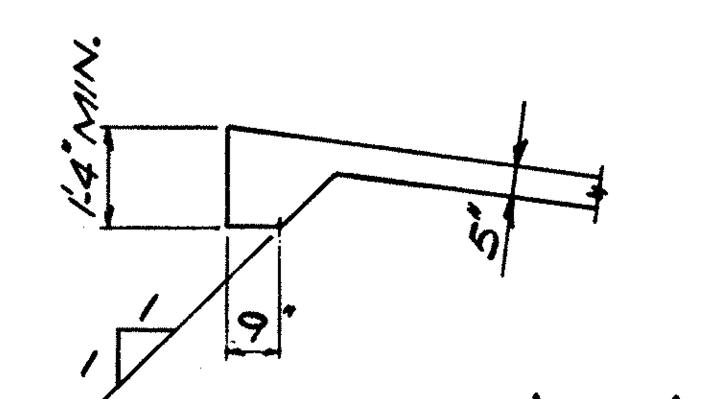
BRIDGE NO. SUM-8-1927
UNDER PEDESTRIAN BRIDGE
SUMMIT COUNTY, CUYAHOGA FALLS EXPRESSWAY
STA 314+04.50.

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
B.M.C.	KENESSY		H&H.	DDH	9-8-67	

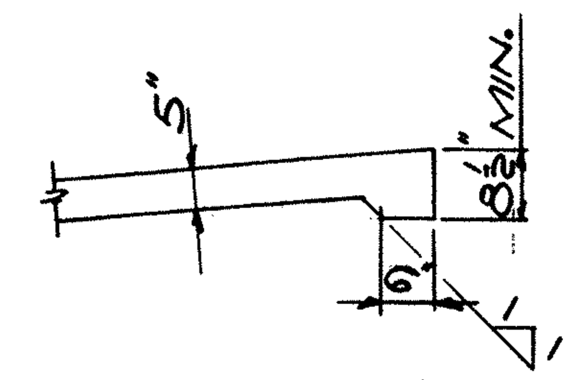


GENERAL PLAN

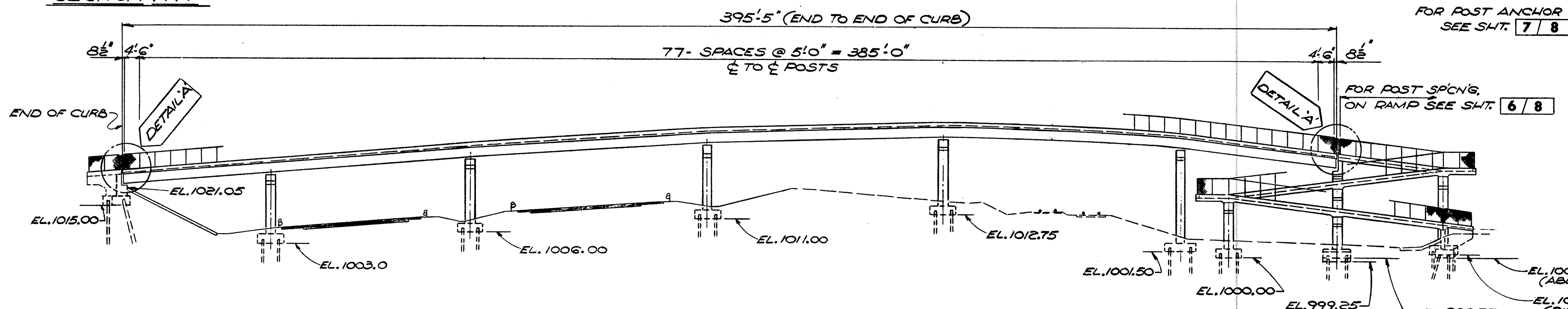
FOR SCUPPERS BETWEEN ABUT. A-1 AND PIER P-6 SEE DETAIL 'D' SHT. 7/8



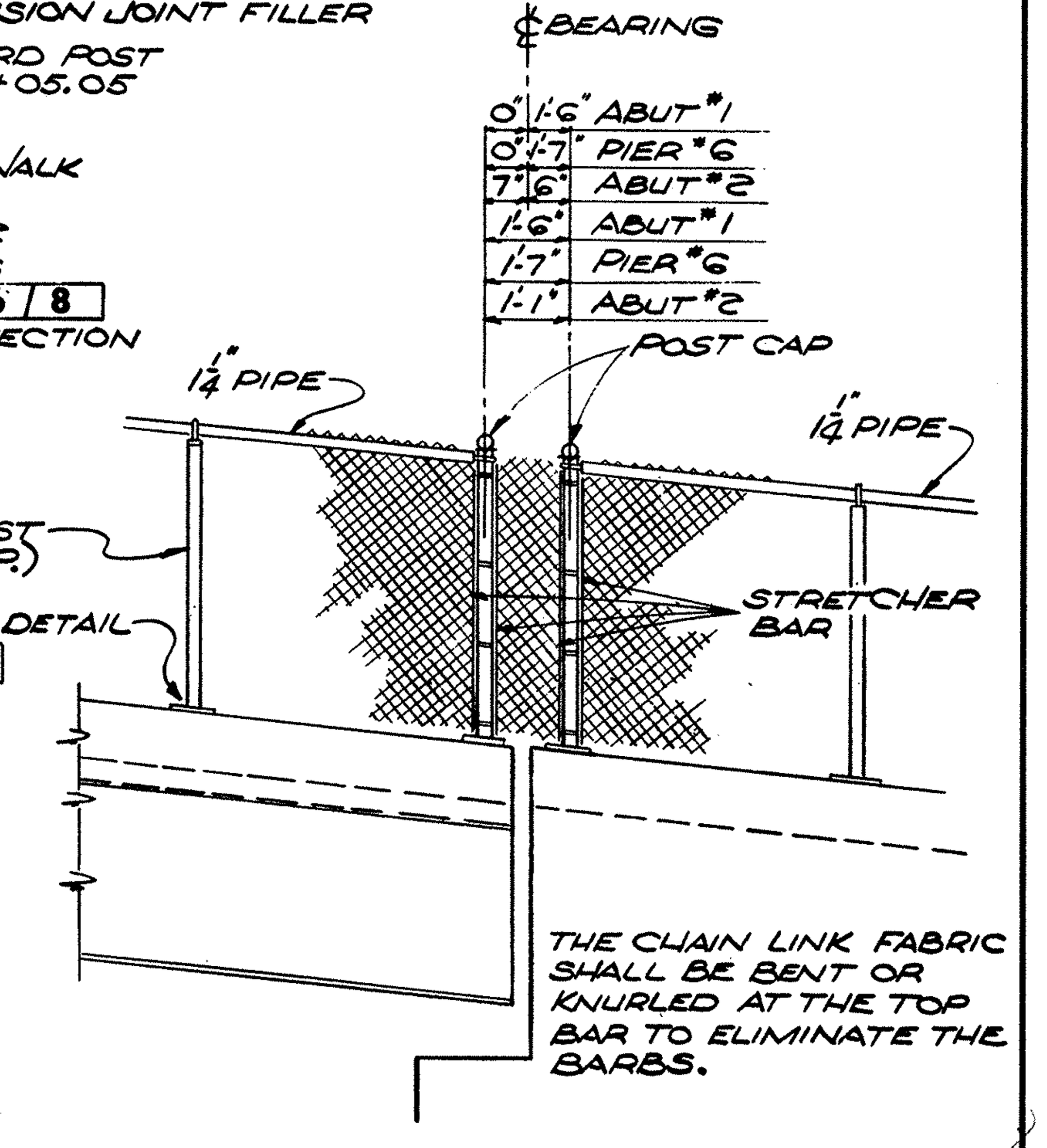
SECTION 'B-B'



SECTION 'A-A'



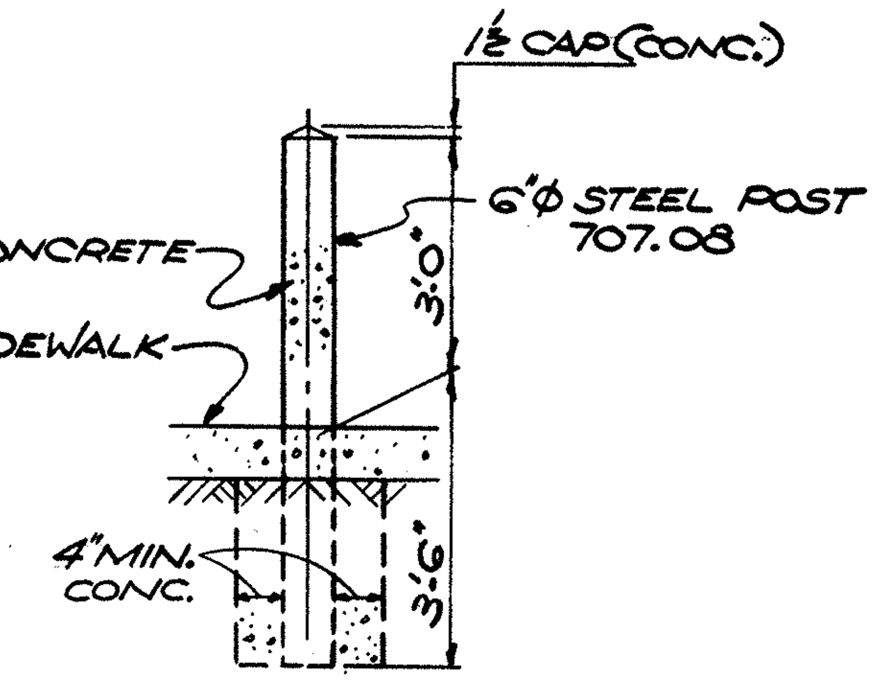
ELEVATION



THE CHAIN LINK FABRIC SHALL BE BENT OR KNURLED AT THE TOP BAR TO ELIMINATE THE BARBS.

DETAIL A

FENCE @ ABUT #2 SIMILAR



POST DETAIL

LOCATION
STA 48+77.13
STA 55+05.05

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	ABUT.	PIER	GEN'L		
503	286	CU.YDS.	UNCLASSIFIED EXCAVATION		74	212			
505	LUMP	L.SUM	FIRST TEST PILE						
507	1500	LIN.FT.	12" CAST-IN-PLACE REINFORCED CONCRETE PILES		240	1260			
509	65,213	LBS	REINFORCING STEEL	31,891	3808	29,514			
511	237	CU.YDS.	CLASS "C" CONCRETE, SUPERSTRUCTURE	237					
511	80	CU.YDS.	CLASS "C" CONCRETE, PIERS ABOVE FOOTING			80			
511	24	CU.YDS.	CLASS "C" CONCRETE, ABUTMENTS ABOVE FOOTING		24				
511	115	CU.YDS.	CLASS "C" CONCRETE FOOTINGS		20	95			
513	116,600	LBS	STRUCTURAL STEEL	116,600					
514	116,600	LBS	FIELD PAINTING OF STRUCTURAL STEEL	116,600					
516	14	SQ.FT.	1" PREFORMED EXPANSION JOINT FILLER	14					

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	ABUT.	PIER	GEN'L		
518	13	CU.YDS.	POROUS BACKFILL		13				
518	8	LIN.FT.	6" HELICAL PERFORATED CMP INCL. SPECIALS 707.01		8				
518	15	LIN.FT.	6" HELICAL NON-PERFORATED CMP, 707.01		15				
518	14	EACH	SCUPPERS INCLUDING SUPPORTS	14					
516	16	SQ.FT.	½" PREFORMED EXPANSION JOINT FILLER		16				
518	6	EACH	8"×6" DRAINS (STEEL TUBE)						
601	104	SQ.YD.	CRUSHED AGGREGATE SLOPE PROTECTION		76	28			
606	2	EACH	6" ϕ PIPE GUARD POSTS				2		
607	1260.41	LIN.FT.	FENCE – TYPE CL INCL. SPEC.	1218.41	42.00				
608	210	SQ.FT.	5" SIDEWALK				210		
625	LUMP	L.S.	SEE LIGHTING SUMMARY SHT. 258				L.S.		
808	237	UNITS	WATER REDUCING SET RETARDING ADMIXTURE	237					

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

DALTON • DALTON ASSOCIATES

GENERAL PLAN & ELEVATION

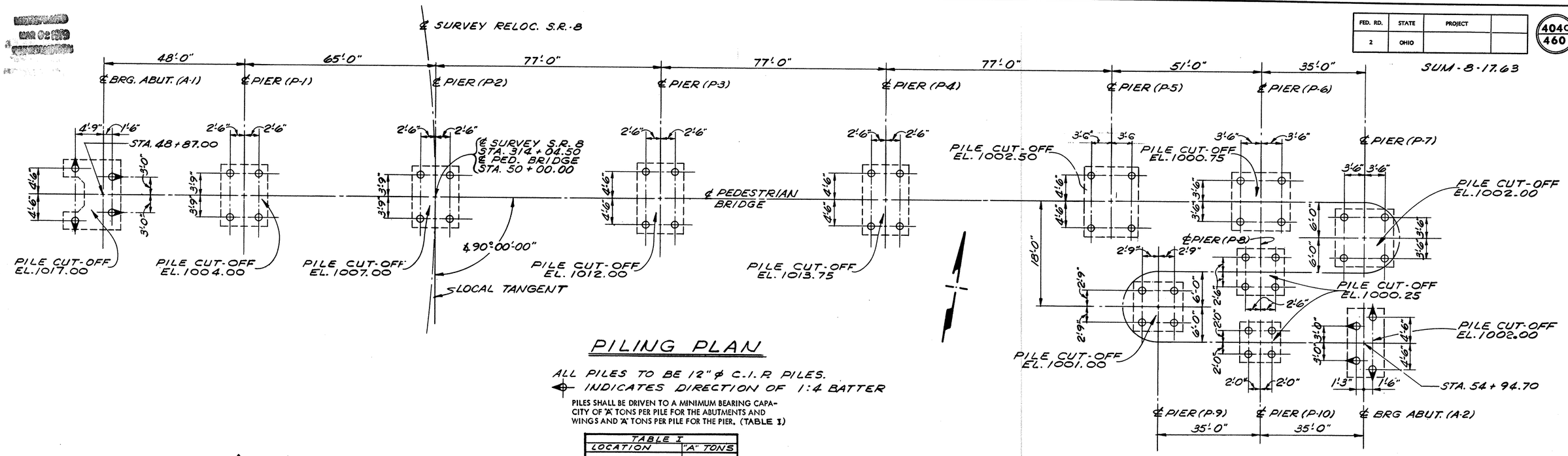
BRIDGE NO. SUM-8-1927
UNDER PEDESTRIAN BRIDGE
SUMMIT COUNTY CUYAHOGA FALLS EXPRESSWAY
STA. 314+04.50

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
BMcL	JWW		4/4/69	RDH	4-4-69	

FED. RD.	STATE	PROJECT	
2	OHIO		

404C
460

SUM-8-17.63

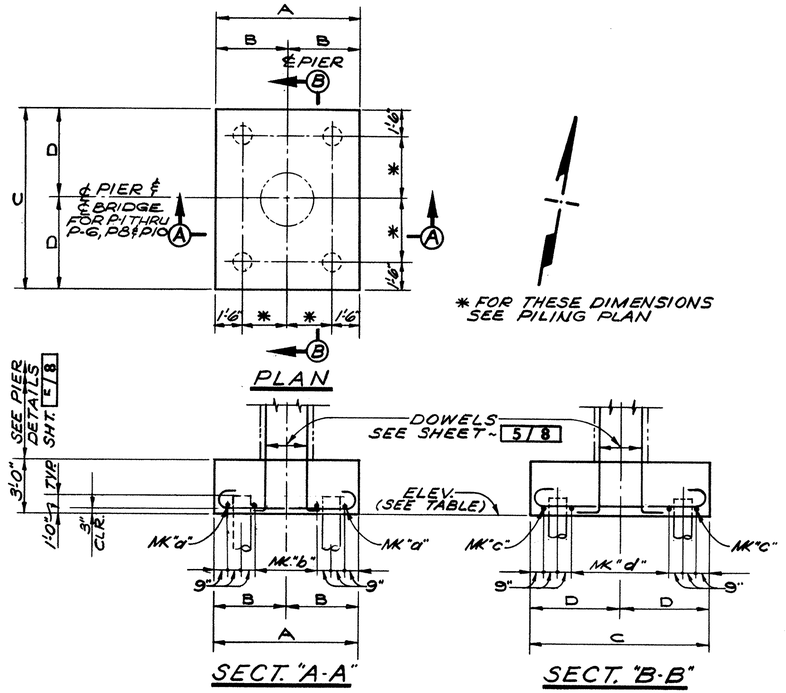


PILING PLAN

ALL PILES TO BE 12" ϕ C.I.P. PILES.
INDICATES DIRECTION OF 1:4 BATTER

PILES SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF "A" TONS PER PILE FOR THE ABUTMENTS AND WINGS AND "A" TONS PER PILE FOR THE PIER. (TABLE I)

TABLE I		
	LOCATION	"A" TONS
	ABUT. (A-1)	25
PIERS	P-1, P-2, P-3 & P-4	35
PIERS	P-5	40
PIERS	P-6 & P-8	25
PIERS	P-7 & P-9	45
PIERS	P-10	30
	ABUT. (A-2)	35



* FOR THESE DIMENSIONS SEE PILING PLAN

TABLE		DIMENSIONS				REINFORCING			
PIER	ELEVATION	"A"	"B"	"C"	"D"	MK "a"	MK "b"	MK "c"	MK "d"
P-1	1003.00	8'-0"	4'-0"	10'-6"	5'-3"	1~509	3~509 @ 1'-9"	1~702	7~702 @ 1'-0"
P-2	1006.00	8'-0"	4'-0"	10'-6"	5'-3"	1~509	3~509 @ 1'-9"	1~702	7~702 @ 1'-0"
P-3	1011.00	8'-0"	4'-0"	12'-0"	6'-0"	1~510	3~510 @ 1'-9"	1~801	8~801 @ 1'-1" (-)
P-4	1012.75	8'-0"	4'-0"	12'-0"	6'-0"	1~510	3~510 @ 1'-9"	1~801	8~801 @ 1'-1" (-)
P-5	1001.50	10'-0"	5'-0"	12'-0"	6'-0"	1~510	7~510 @ 11"	1~802	8~802 @ 1'-1" (-)
P-6	999.75	10'-0"	5'-0"	10'-0"	5'-0"	1~603	3~603 @ 2'-9"	1~603	3~603 @ 2'-9"
P-7	1001.00	10'-0"	5'-0"	10'-0"	5'-0"	1~703	6~703 @ 1'-1" (+)	1~703	6~703 @ 1'-1" (+)
P-8	999.25	8'-0"	4'-0"	8'-0"	4'-0"	1~511	4~511 @ 1'-2"	1~511	4~511 @ 1'-2"
P-9	1000.00	8'-6"	4'-3"	8'-6"	4'-3"	1~604	7~604 @ 8"	1~604	7~604 @ 8"
P-10	999.25	7'-0"	3'-6"	7'-0"	3'-6"	1~605	3~605 @ 1'-3"	1~605	3~605 @ 1'-3"

THE PREFIX "P" SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN THE PIERS.

SEE SHEET 5/8 FOR PIER DETAILS ABOVE TOP OF FOOTINGS.

Detail Pier Footings

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

3/8

DALTON · DALTON ASSOCIATES

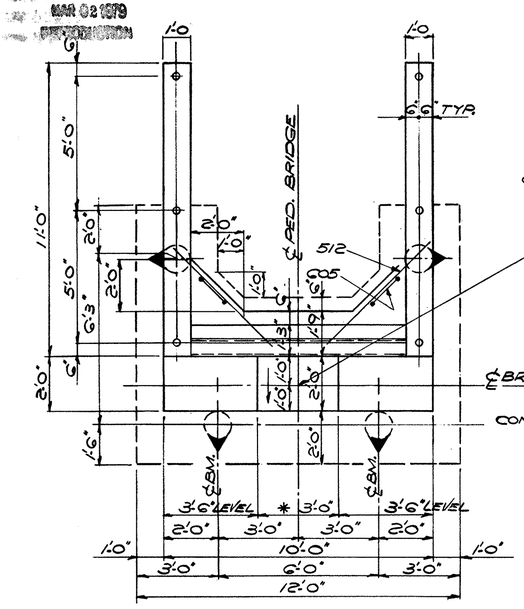
PILING PLAN & PIER FOOTING DET'S.
BRIDGE NO. SUM-8-1927
UNDER PEDESTRIAN BRIDGE
SUMMIT COUNTY CUYAHOGA FALLS EXPRESSWAY
STA. 314+04.50

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
B M S W	[illegible]		4/1/69	EDH	4-4-69	

FED. RD.	STATE	PROJECT	
2	OHIO		

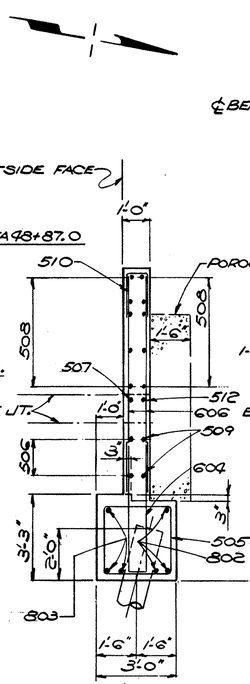
404D
460

SUM-8-17.63

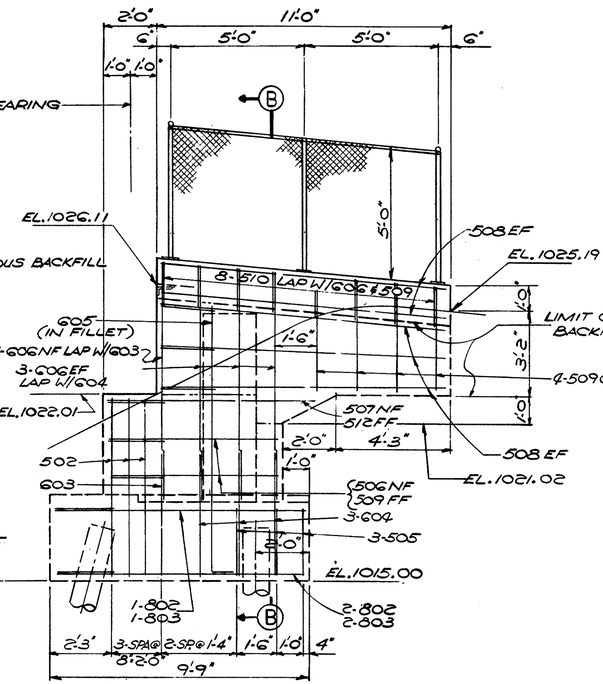


PLAN ABUTMENT A-1

* SLOPE $\frac{3}{4}$" TO FACE OF ABUT.

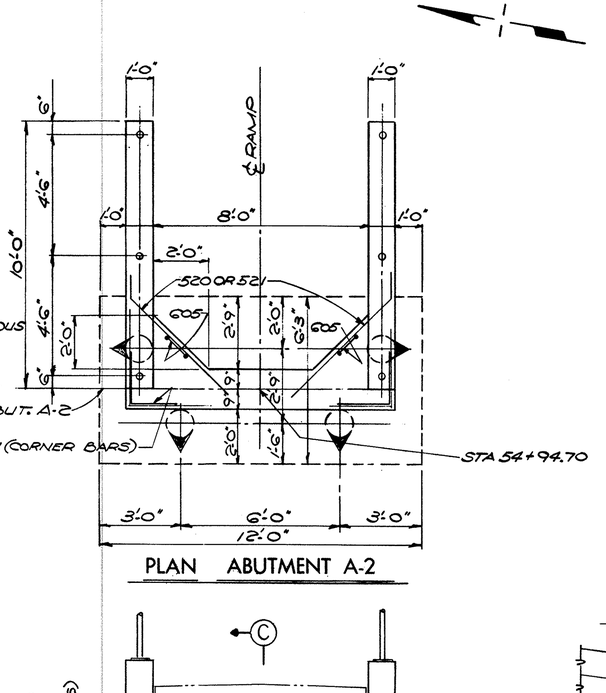


SECTION B-B

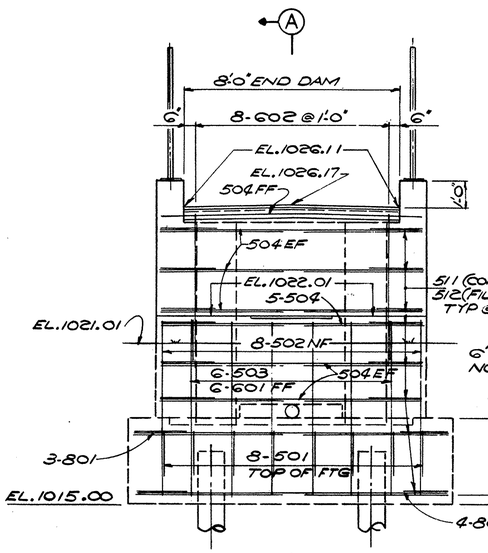


NORTH WINGWALL ABUTMENT A-1 (AS SHOWN)

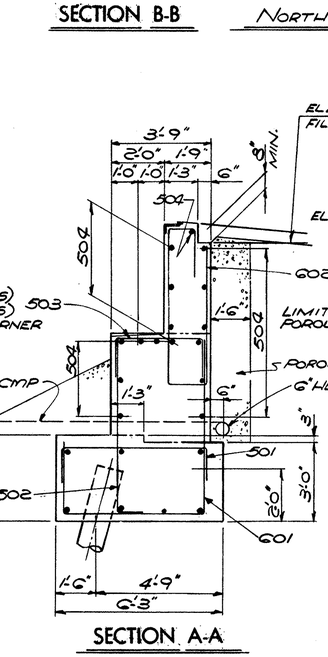
SOUTH WINGWALL (OPP. HAND)



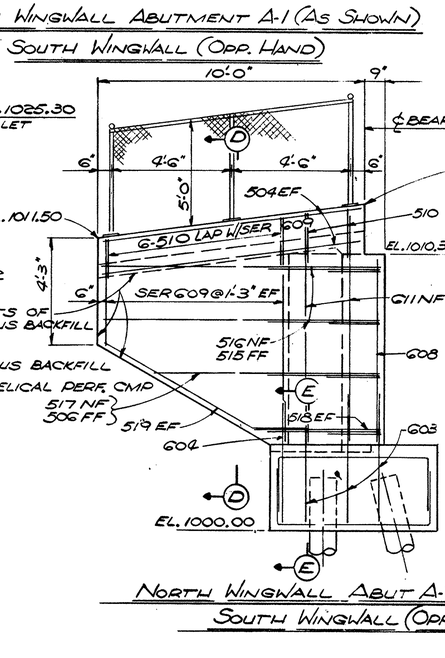
PLAN ABUTMENT A-2



ELEVATION



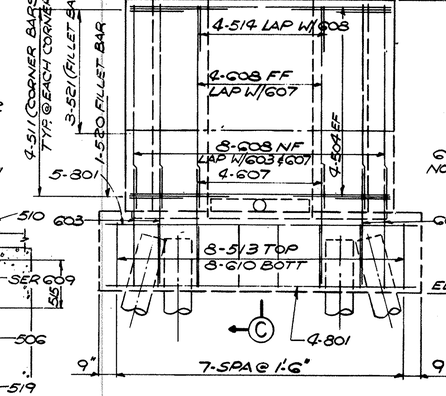
SECTION A-A



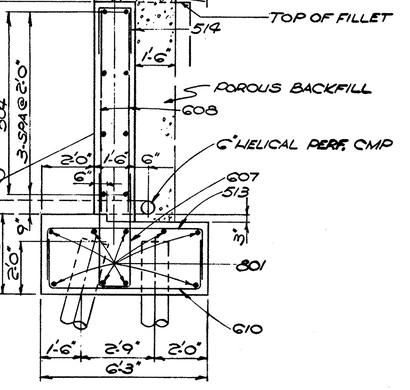
NORTH WINGWALL ABUT A-2 (AS SHOWN)

SOUTH WINGWALL (OPP. HAND)

SECTION 'D-D'

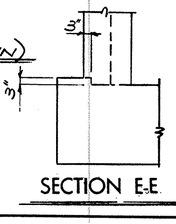


ELEVATION



SECTION C-C

FOR DETAIL OF FENCE POST BASE ℄ SEE 7 / 9



SECTION E-E

NOTES

1. ABBREVIATIONS USED ARE:

   NF-NEAR FACE
   FF-FAR FACE
   EF-EACH FACE

2. BACKWALL ELEVATIONS ARE GIVEN AS FINAL PAVEMENT ELEVATIONS AT FRONT FACE OF BACKWALL.

3. THE PREFIX "A" SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN THE ABUTMENTS UNLESS SHOWN OTHERWISE.

4. POROUS BACKFILL, 1.5 FT. THICK, FULL LENGTH OF ABUTMENT AND WINGS, SHALL EXTEND UP TO THE SUBGRADE OR TO THE FINISHED GROUND SURFACE.

FOR PILING PLAN, SEE SHEET 3 / 8

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

4 / 8

DALTON · DALTON ASSOCIATES

ABUTMENT DETAILS

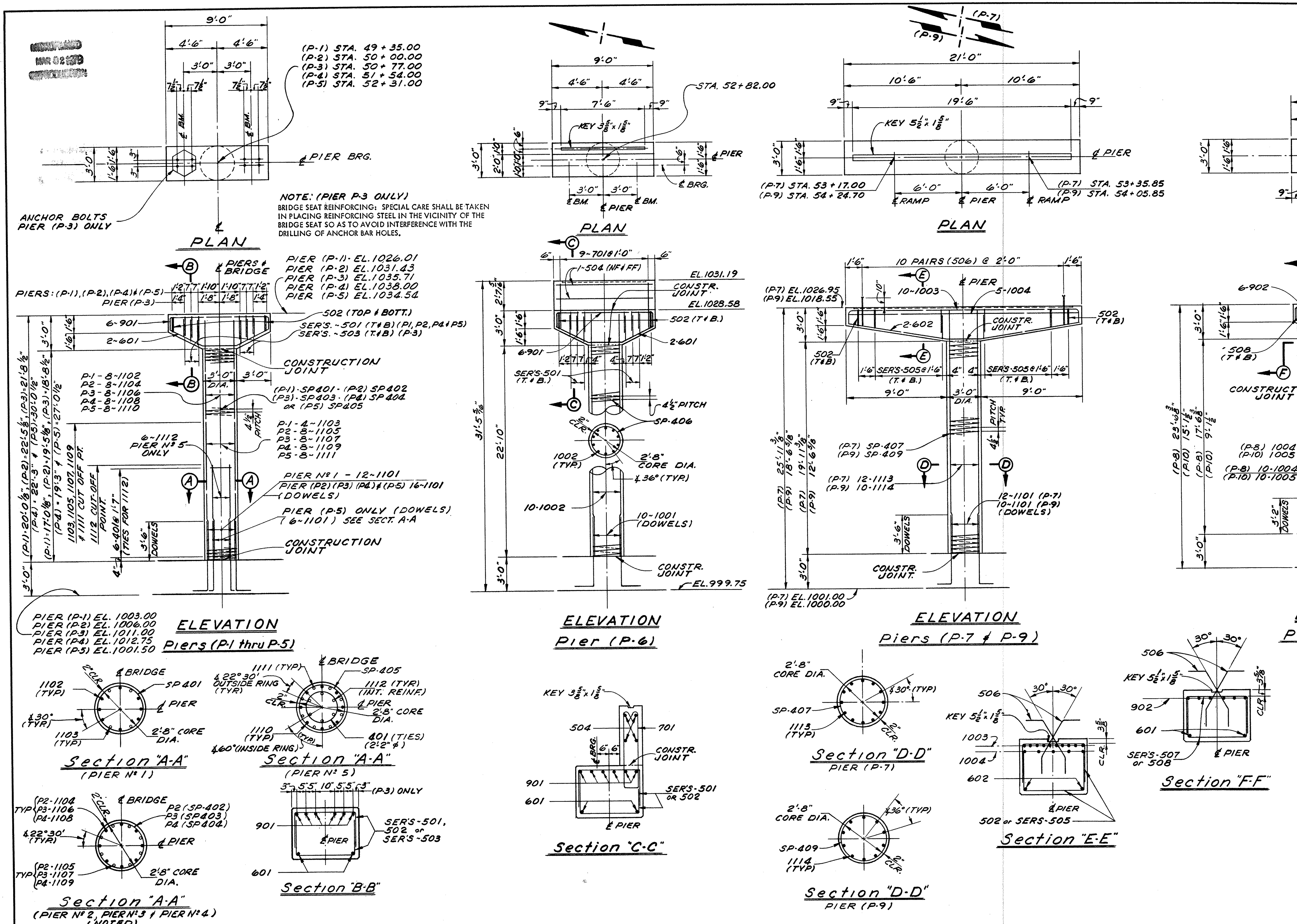
BRIDGE N°. SUM-8-1927

UNDER PEDESTRIAN BRIDGE

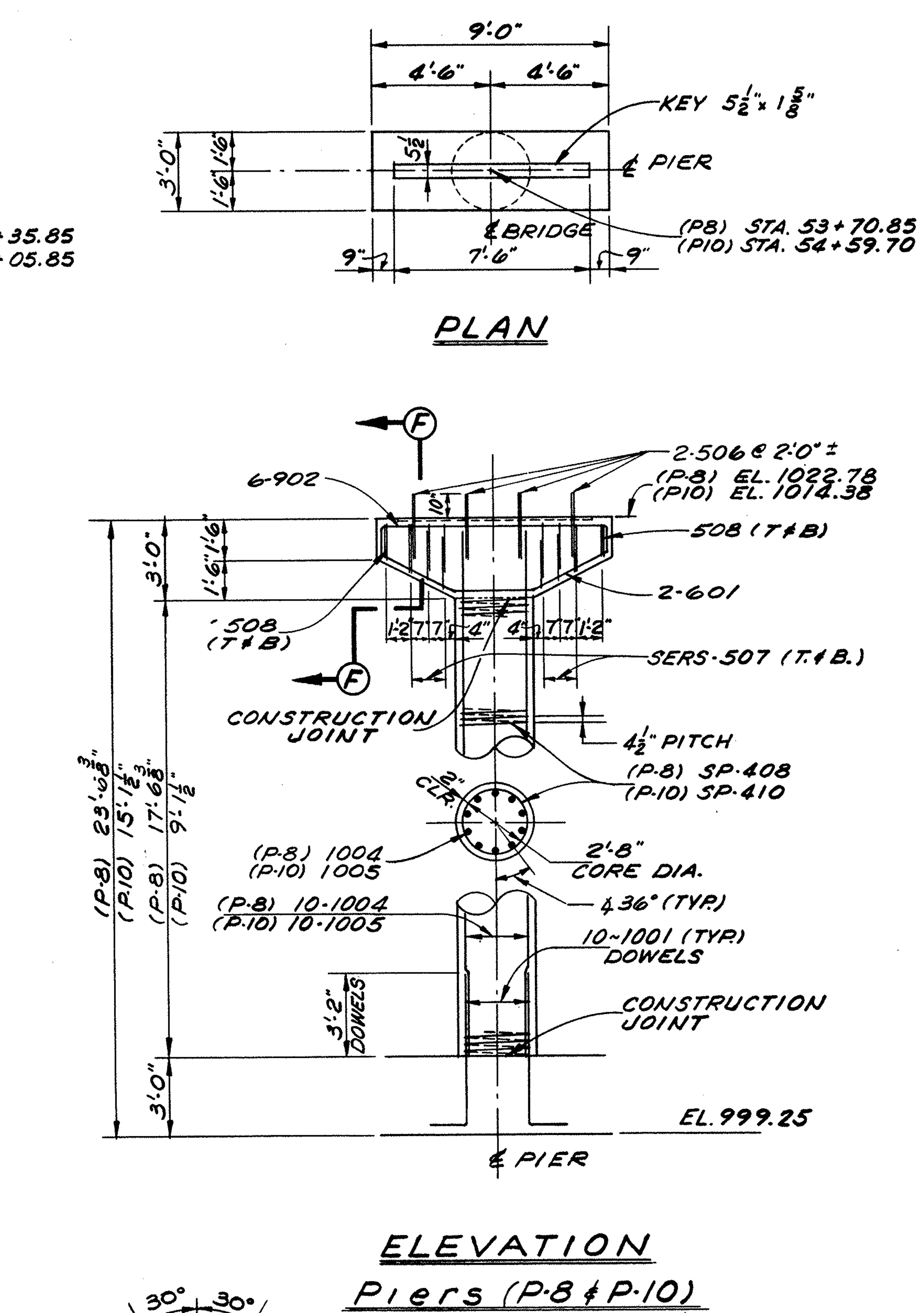
SUMMIT COUNTY CUYAHOGA FALLS EXPRESSWAY

STA 314+04.50

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
B M W	JWW		CW 4/4/69	RBH	4-9-69	



PLAN
NOTE: (PIER P-3 ONLY)
BRIDGE SEAT REINFORCING: SPECIAL CARE SHALL BE TAKEN IN PLACING REINFORCING STEEL IN THE VICINITY OF THE BRIDGE SEAT SO AS TO AVOID INTERFERENCE WITH THE DRILLING OF ANCHOR BAR HOLES.
(P-1) STA. 49 + 35.00
(P-2) STA. 50 + 00.00
(P-3) STA. 50 + 77.00
(P-4) STA. 51 + 54.00
(P-5) STA. 52 + 31.00
ANCHOR BOLTS PIER (P-3) ONLY
PIER (P-1) EL. 1026.01
PIER (P-2) EL. 1031.43
PIER (P-3) EL. 1035.71
PIER (P-4) EL. 1038.00
PIER (P-5) EL. 1034.54
ELEVATION
Piers (P-1 thru P-5)
PIER (P-1) EL. 1003.00
PIER (P-2) EL. 1006.00
PIER (P-3) EL. 1011.00
PIER (P4) EL. 1012.75
PIER (P5) EL. 1001.50
STA. 52+82.00
PLAN
EL. 1031.19
EL. 1028.58
EL. 999.75
ELEVATION
Pier (P-6)
(P-7) STA. 53 + 17.00
(P-9) STA. 54 + 24.70
(P-7) STA. 53+35.85
(P-9) STA. 54+05.85
PLAN
10 PAIRS (506) @ 2'-0"
(P-7) EL. 1026.95
(P-9) EL. 1018.55
(P-7) EL. 1001.00
(P-9) EL. 1000.00
ELEVATION
Piers (P-7 & P-9)
Section "A-A" (PIER Nº 1)
Section "A-A" (PIER Nº 5)
Section "A-A" (PIER Nº 2, PIER Nº 3 & PIER Nº 4) (NOTED)
Section "B-B"
Section "C-C"
Section "D-D" PIER (P-7)
Section "D-D" PIER (P-9)
Section "E-E"
Section "F-F"



Notes:

ABBREVIATIONS USED ARE:
(T.& B.) DENOTES TOP AND BOTTOM.
NF-NEAR FACE
FF-FAR FACE

THE PREFIX "P" SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN THE PIER.

FOR PILING PLAN & FOOTING DETAILS SEE SHEET 3/8

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

DALTON · DALTON ASSOCIATES

PIER DETAILS

BRIDGE NO. SUM-8-1927

UNDER PEDESTRIAN BRIDGE

SUMMIT COUNTY CUYAHOGA FALLS EXPRESSWAY

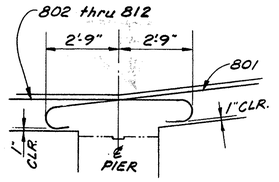
STA. 314+04.50

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
BKW	Hodovan		CWW 1/1/69	RDH	4-4-69	

FED. RD.	STATE	PROJECT	
2	OHIO		

404 F / 460

SUM-8-17.63



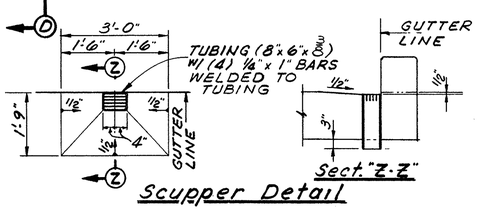
Section "E-E"

SLAB PLAN

Note:

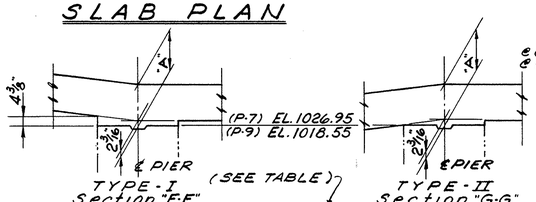
FOR REINFORCING IN CURB & POST SPACING SEE OTHER END

(■) DENOTES : TOP OF SLAB
(□) DENOTES : BOT. OF SLAB
(℗) DENOTES : TYPICAL DIM. FOR BARS OVER PIERS



Scupper Detail

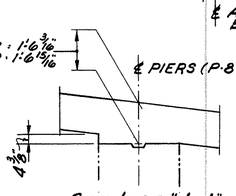
Sect. "Z-Z"



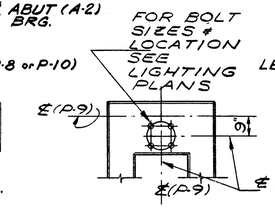
Section "F-F"

Section "G-G"

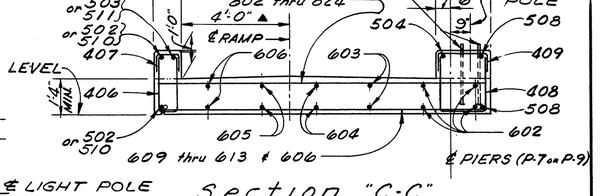
TABLE	DIM. "A"				
	STATION	TYPE	R. GUT.	℄	L. GUT.
	53+17.00	I	1'-6 13/16"	1'-7 5/16"	1'-7 1/16"
	53+35.85	II	1'-6 3/8"	1'-7 5/16"	1'-6 1/8"
	54+05.85	I	1'-7 1/16"	1'-7 5/16"	1'-6 13/16"
	54+24.70	II	1'-6 1/8"	1'-7 5/16"	1'-6 3/8"



Section "J-J"



View "W-W"
(PIER Nº 9 ONLY)

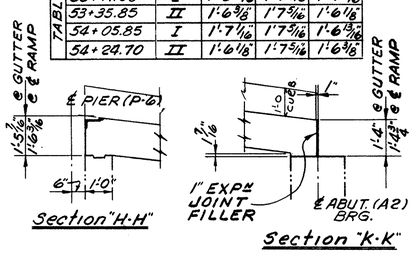


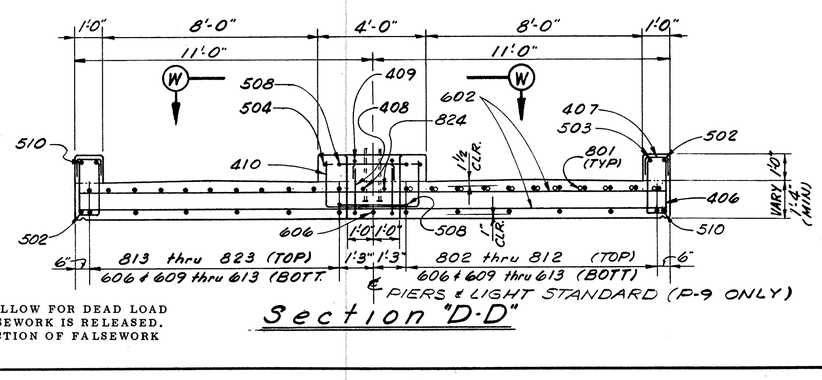
Section "A-A"

Section "B-B"
(WORK WITH SECT. "A-A")

Section "C-C"
▲ DENOTES · RADIAL DIM'S.

KEY PLAN





Section "D-D"

CAMBER

CAMBER OF 1/800 OF THE SPAN SHALL BE PROVIDED IN EACH SPAN TO ALLOW FOR DEAD LOAD DEFLECTION. THIS IS THE AMOUNT OF CAMBER REQUIRED BEFORE FALSEWORK IS RELEASED. TO OBTAIN THIS, PROPER ALLOWANCE SHALL BE MADE FOR THE DEFLECTION OF FALSEWORK MEMBERS.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

6 / 8

DALTON · DALTON · DALTON ASSOCIATES

RAMP SLAB PLAN

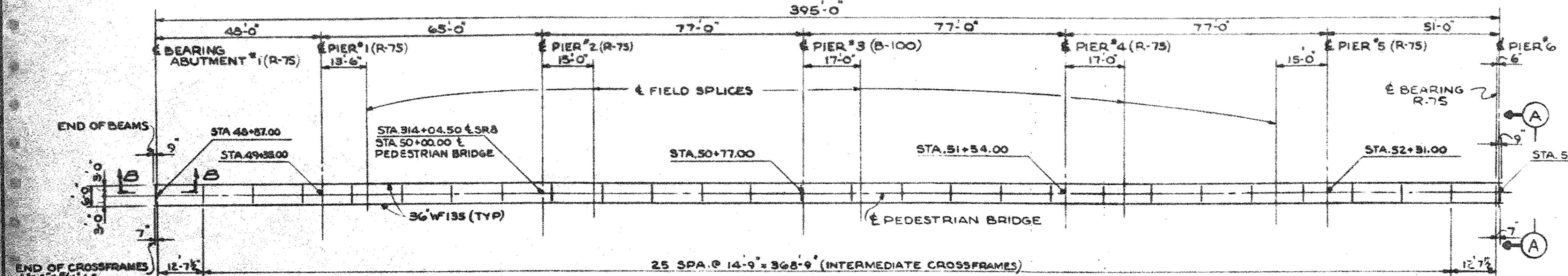
BRIDGE NO. SUM-8-1927
UNDER PEDESTRIAN BRIDGE
SUMMIT COUNTY CUYAHOGA FALLS EXPRESSWAY
STA. 314+04.50

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
B M W	Hedevan		4/4/69	RDH 4-4-69		

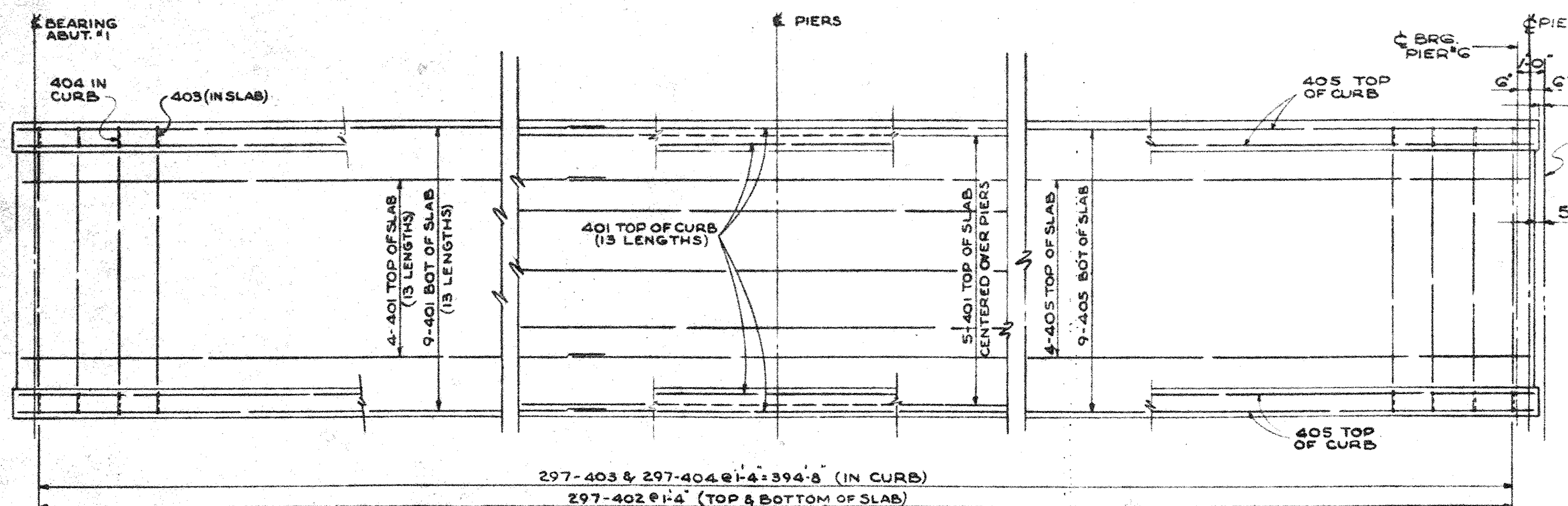
FED. RD.	STATE	PROJECT
2	OHIO	

404G / 460

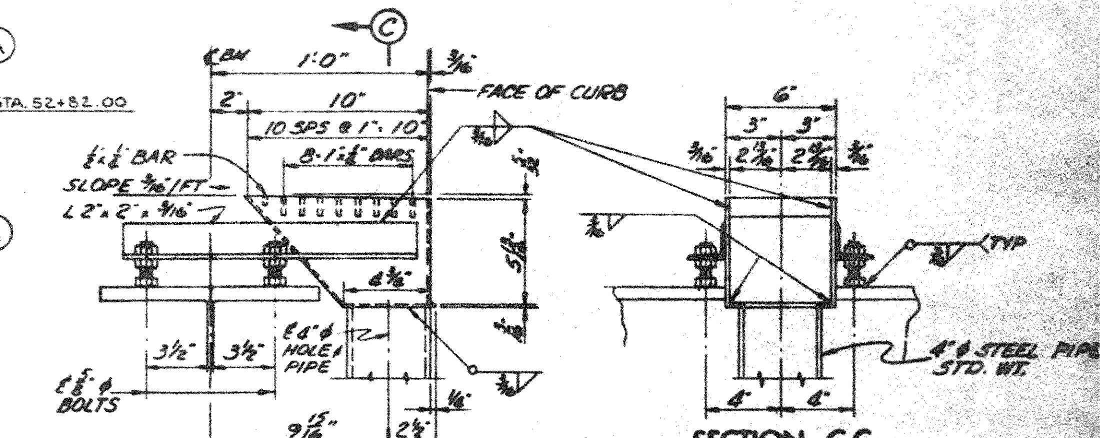
SUM-8-17.63



FRAMING PLAN



SLAB PLAN

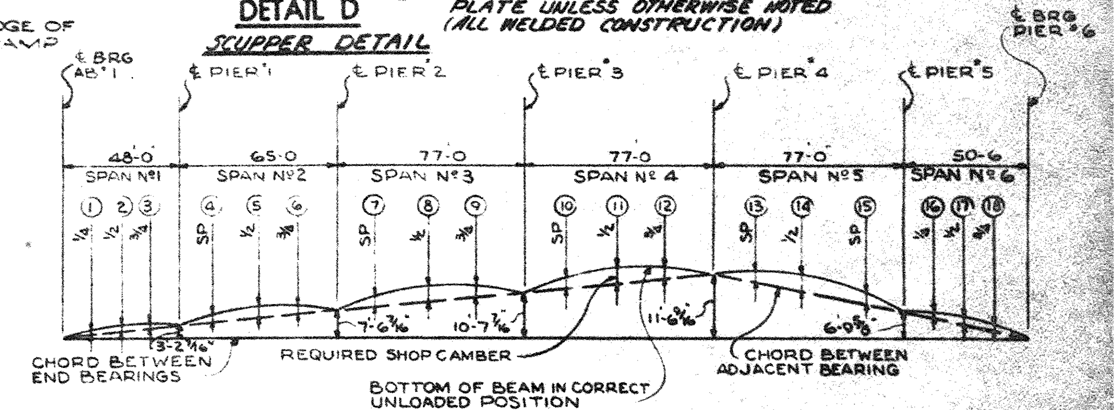


DETAIL D

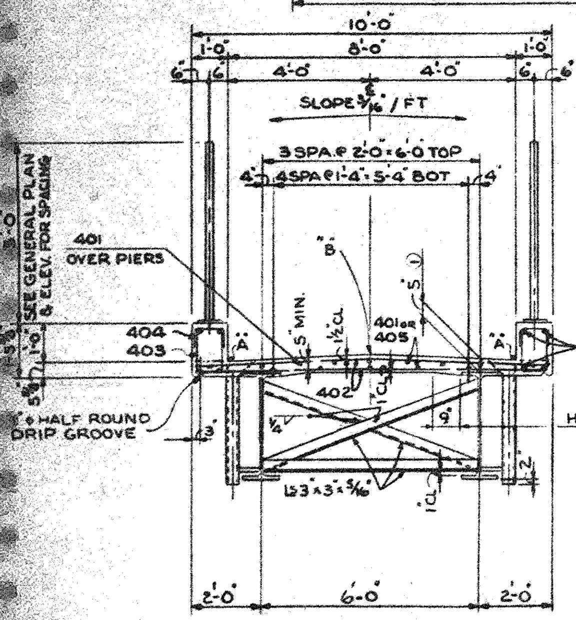
SCUPPER DETAIL

Scupper Note: FABRICATE FROM 3/8" THK. STEEL PLATE UNLESS OTHERWISE NOTED (ALL WELDED CONSTRUCTION)

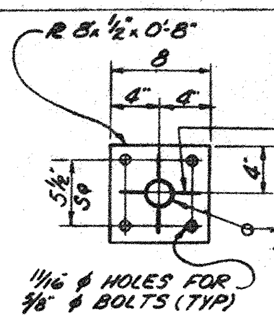
SECTION C-C



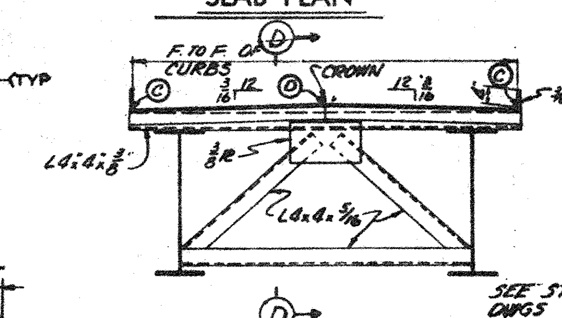
LAYOUT DIAGRAM



TRANSVERSE SECTION

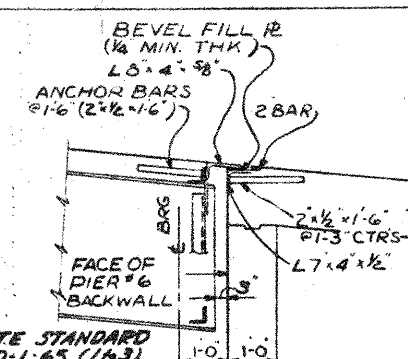


PLAN

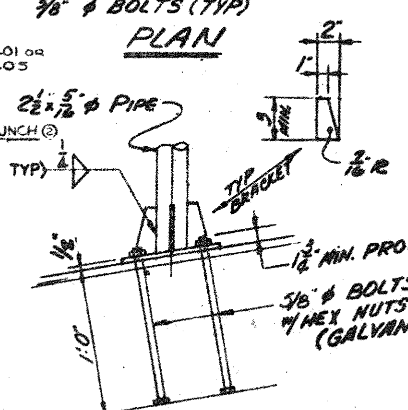


SECTION A-A

SEE STATE STANDARD DWGS SD-1-65 (1 to 3) FOR DETAILS NOT SHOWN.

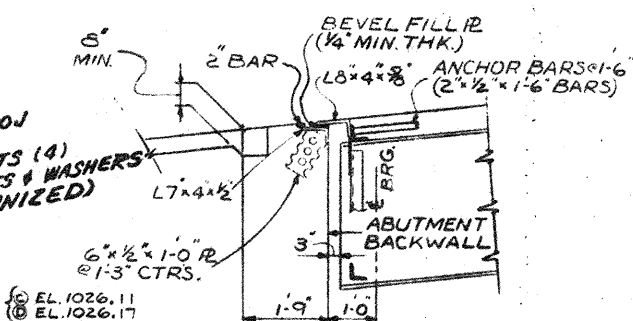


SECTION D-D



ELEVATION

DETAIL POST ANCHOR



SECTION B-B

(SEE SECTION A-A)

DEFLECTION AND CAMBER

SPANS	SPAN No 1			SPAN No 2			SPAN No 3			SPAN No 4			SPAN No 5			SPAN No 6		
POINTS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
DEFLECTION DUE TO WEIGHT OF STEEL	0	0	0	0	1/16	0	0	1/8	1/16	1/16	1/8	1/16	1/16	1/8	1/8	0	0	0
DEFLECTION DUE TO REMAINING DEAD LOAD	1/8	1/8	1/16	1/16	1/8	1/16	0	7/16	1/4	1/8	5/16	3/16	3/16	7/16	5/16	1/16	1/8	1/16
ADJUSTMENT REQUIRED FOR VERTICAL CURVE	0	0	0	0	0	0	4"	6 5/16	4 3/4	1/4	9/16	7/8	9 3/16	13 5/16	8 3/8	7/8	9/16	5/16
REQUIRED SHOP CAMBER	1/8"	1/8"	1/16"	1/16"	3/16"	1/16"	4"	6 7/8"	5 1/16"	7/16"	1"	1 1/8"	9 7/16"	13 7/8"	8 13/16"	15/16"	11/16"	3/8"

TABLE OF ELEVATIONS (SEE TRANSVERSE SECTION)

LOCATION	EL "A" *	EL "B" *	LOCATION	EL "A" *	EL "B" *	LOCATION	EL "A" *	EL "B" *
48+87.00	1026.19	1026.25	50+38.50	1038.35	1038.41	51+92.50	1041.60	1041.66
49+10.50	1028.16	1028.22	50+57.75	1039.30	1039.36	52+16.00	1040.12	1040.18
49+35.00	1030.19	1030.25	50+77.00	1039.97	1040.03	52+31.00	1038.72	1038.78
49+48.50	1031.32	1031.38	50+94.00	1040.49	1040.56	52+43.75	1037.29	1037.35
49+67.50	1032.91	1032.97	51+15.50	1041.15	1041.21	52+56.50	1035.76	1035.83
49+83.75	1034.26	1034.32	51+34.75	1041.72	1041.78	52+69.25	1034.23	1034.30
50+00.00	1035.61	1035.67	51+54.00	1042.18	1042.25	52+82.50	1032.64	1032.70
50+15.00	1036.79	1036.85	51+71.00	1042.20	1042.26			

* THESE ELEVATIONS ARE THOSE WHICH ARE REQUIRED BEFORE THE CONCRETE IS PLACED. PROPER ALLOWANCE HAS BEEN MADE FOR DEAD LOAD DEFLECTIONS CAUSED BY THE WEIGHT OF CONCRETE. FOR PAVEMENT ELEVATION TABLE,

NOTES

1. THIS IS THE NOMINAL DIMENSION. THE QUANTITY OF DECK CONCRETE TO BE PAID FOR SHALL BE BASED UPON THIS DIMENSION, EVEN THOUGH DEVIATION FROM IT MAY BE NECESSARY BECAUSE THE TOP FLANGE OF THE BEAM MAY NOT HAVE THE EXACT CAMBER OR CONFORMATION REQUIRED TO PLACE IT PARALLEL TO THE FINISHED GRADE.
2. A TYPICAL HAUNCH WIDTH OF 9" SHALL BE USED FOR COMPUTING QUANTITY OF CONCRETE. HOWEVER, THE HAUNCH WIDTH MAY VARY BETWEEN 6" AND 12" PROVIDED THAT THE SLOPE SHALL BE NOT MORE THAN 1:4 FOR A HAUNCH LESS THAN 9" IN WIDTH.
3. THE PREFIX "S" SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN THE SUPERSTRUCTURE UNLESS SHOWN OTHERWISE.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

7 / 8

DALTON • DALTON ASSOCIATES

FRAMING PLAN & SLAB DETAILS

BRIDGE NO. SUM-8-1927

UNDER PEDESTRIAN BRIDGE

SUMMIT COUNTY CUYAHOGA FALLS EXPRESSWAY

STA. 314+04.50

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
B McW	JLH		CUW 4/4/69	RDH	4-4-69	

MARK	NO. REQ'D	LENGTH	TYPE	DIMENSIONS A	B	C	D	INCRM.	WEIGHT LBS.
ABUTMENT									
A 501	8	8- 4	2	1- 7	5- 5				70
A 502	12	7- 6	1	1- 0	6- 7				94
A 503	6	6- 4	2	1- 7	3- 5				40
A 504	32	9- 8	ST						323
A 505	6	11- 0	14	2- 7	2- 8				69
A 506	10	6- 5	ST						67
A 507	2	7- 6	ST						16
A 508	20	10- 8	ST						223
A 509	20	3-10	ST						80
A 510	32	4- 5	2	2- 0	0- 8				147
A 511	24	3-11	1	2- 0	2- 0				98
A 512	18	4- 6	ST						84
A 513	8	8-10	2	1- 7	5-11				74
A 514	4	4- 1	2	1- 7	1- 2				17
A 515	4	7- 2	ST						30
A 516	8	10- 5	ST						87
A 517	2	8- 2	ST						17
A 518	4	4-11	ST						21
A 519	4	9- 5	12	2- 0	7- 6	3-11			39
A 520	2	7- 2	12	5- 3	2- 0	1- 7			15
A 521	6	7- 2	12	5- 3	2- 0	1- 5			45
A 601	6	14- 6	3	6- 7	5- 5	2- 9			131
A 602	8	14-11	8	5- 3	5-11	1- 5	1-11		179
A 603	10	5-10	1	1- 0	4-11				88
A 604	8	10- 3	2	4-11	0- 8				123
A 605	4	20- 3	2	9- 8	1- 2				122
A 606	14	8- 4	ST						175
A 607	4	10- 9	2	4-11	1- 2				65
A 608	12	6-10	ST						123
SERIES	4-SET	4- 2						0	
OF	OF 6=	TO	ST					0-11--	233
A 609	24 BARS	8- 9						0	
A 610	8	10-10	2	2- 7	5-11				130
A 611	4	8-11	ST						54
A 801	16	11- 8	ST						498
A 802	6	9- 5	ST						151
A 803	6	5- 0	ST						80
							TOTAL ABUTMENT =		3808

MARK	NO. REQ'D	LENGTH	TYPE	DIMENSIONS A	B	C	D	INCRM.	WEIGHT LBS.
PIER									
P 401	6	8- 4	10	8- 4	1- 1				33
SERIES	20-SET	5-11		1- 9				0	
OF	OF 3=	TO	2	TO	2- 8			0- 4--	391
P 501	60 BARS	6- 7		2- 1				0	
P 502	32	4-11	2	1- 3	2- 8				164
SERIES	4-SET	6- 1		1-10				0	
OF	OF 3=	TO	2	TO	2- 8			0- 4--	80
P 503	12 BARS	6- 9		2- 2				0	
P 504	4	8- 8	ST						36
SERIES	8-SET	1- 6						0	
OF	OF 5=	TO	ST					0- 4--	76
P 505	40 BARS	2- 2						0	
P 506	56	3- 4	19	0- 9	1- 0	1- 8	0- 9		195
SERIES	8-SET	5- 9		1- 8				0	
OF	OF 3=	TO	2	TO	2- 8			0- 4--	152
P 507	24 BARS	6- 5		2- 0				0	
P 508	8	4- 9	2	1- 2	2- 8				40
P 509	10	11- 4	7	10- 2					118
P 510	19	12-10	7	11- 8					254
P 511	12	8-10	7	7- 8					111
P 601	16	9- 0	25	0- 0	2- 9	3- 0	1- 5		216
P 602	4	20- 8	25	0- 0	8- 9	3- 0	1- 6		124
P 603	10	11- 0	7	9- 8					165
P 604	18	9- 6	7	8- 2					257
P 605	10	8- 0	7	6- 8					120
P 701	9	9- 4	5	0- 8	3-11				172
P 702	18	9- 4	7	7- 8					343
P 703	16	11- 4	7	9- 8					371
P 801	20	7- 8	ST						409
P 802	10	9- 8	ST						258
P 901	36	10- 7	2	1- 2	8- 8				1295
P 902	12	10- 5	2	1- 1	8- 8				425

MARK	NO. REQ'D	LENGTH	TYPE	DIMENSIONS A	B	C	D	INCRM.	WEIGHT LBS.
P1001	30	7- 3	1	1- 6	6- 0				936
P1002	10	25- 6	ST						1097
P1003	20	22- 2	2	1- 0	20- 8				1908
P1004	20	20- 0	ST						1721
P1005	10	11- 7	ST						498
P1101	104	7- 3	1	1- 6	6- 0				4006
P1102	8	19- 6	ST						829
P1103	4	9- 0	ST						191
P1104	8	21-11	ST						932
P1105	8	12- 6	ST						531
P1106	8	21- 2	ST						900
P1107	8	12- 9	ST						542
P1108	8	21- 9	ST						924
P1109	8	13- 9	ST						584
P1110	8	29- 6	ST						1254
P1111	8	21- 3	ST						903
P1112	6	8- 6	ST						271
P1113	12	22- 6	ST						1435
P1114	10	15- 0	ST						797
								TOTAL PIER =	26064

SPIRAL REINFORCING SCHEDULE

MARK	NO. REQ'D.	CORE DIA. OF SPIRAL	LENGTH OF SPIRAL	PITCH INS.	WEIGHT LBS.
SPIRALS-PIER					
SP401	1	2- 8	17- 0	4.50	321
SP402	1	2- 8	19- 5	4.50	364
SP403	1	2- 8	18- 9	4.50	352
SP404	1	2- 8	19- 3	4.50	361
SP405	1	2- 8	27- 1	4.50	501
SP406	1	2- 8	22-10	4.50	425
SP407	1	2- 8	19-11	4.50	373
SP408	1	2- 8	17- 6	4.50	330
SP409	1	2- 8	12- 7	4.50	242
SP410	1	2- 8	9- 2	4.50	181
			TOTAL SPIRALS-PIER =		3450

FOUR ANGLE SPACERS WEIGHING APPROX. 0.80 LBS. PER LINEAL FT. OF SPACER SHALL BE PROVIDED FOR EACH SPIRAL UNIT LISTED ABOVE. THEY SHALL BE EQUALLY SPACED ALONG THE PERIPHERY OF EACH COIL. THE NUMBER OF POUNDS OF THESE SPACERS WILL BE PAID FOR AS REINFORCING STEEL AND IS INCLUDED IN THE TABULATED SPIRAL WEIGHT.

SPIRAL REINFORCING BARS SHALL NOT HAVE DEFORMATIONS BUT SHALL IN OTHER RESPECTS CONFORM TO ITEM 509. THE LENGTH SHOWN IN THE STEEL SCHEDULE FOR THE SPIRAL BARS IS THE DISTANCE FROM THE TOP OF THE FOOTING TO THE TOP OF THE COLUMN INCLUDING THREE (3) CLOSED COILS (ONE AND ONE HALF CLOSED COILS AT THE ENDS OF EACH SPIRAL UNIT).

MARK	NO. REQ'D	LENGTH	TYPE	DIMENSIONS A	B	C	D	INCRM.	WEIGHT LBS.
SUPERSTRUCTURE									
S 401	246	30- 0	ST						4930
S 402	594	9- 8	ST						3836
S 403	594	2-10	2	1- 2	0- 8				1124
S 404	594	1- 6	2	0- 6	0- 8				595
S 405	17	21- 4	ST						242
S 406	312	4- 6	2	2- 0	0- 8				938
S 407	312	2- 0	2	0- 9	0- 8				417
S 408	4	5- 6	2	2- 0	1- 8				15
S 409	4	3- 0	2	0- 9	1- 8				8
S 410	2	7- 6	2	2- 0	3- 8				10
S 501	4	31- 5	ST						131
S 502	4	22- 3	26	3- 9	18- 6	10- 9	0- 5		93
S 503	2	21- 5	26	3- 9	17- 8	10- 3	0- 5		45
S 504	4	6- 8	1	4- 1	2- 8				28
S 505	2	4- 0	ST						8
S 506	20	23- 2	ST						483
S 507	4	25- 1	ST						105
S 508	8	4- 8	1	2- 6	2- 3				39
S 509	2	8- 2	ST						17
S 510	4	22- 3	27	3- 9	18- 6	10- 9	0- 5		93
S 511	2	21- 5	27	3- 9	17- 8	10- 3	0- 5		45
S 512	6	6- 2	ST						39
S 601	166	9- 8	ST						2410
S 602	8	21- 7	ST						259
S 603	4	20- 9	ST						125
S 604	4	19- 2	ST						115
S 605	19	16- 6	ST						471
S 606	10	12- 0	ST						180
S 607	5	28- 9	ST						216
S 608	5	21-11	ST						165
S 609	4	4- 1	ST						25
S 610	4	7- 5	ST						45
S 611	4	9- 6	ST						57
S 612	4	10-10	ST						65
S 613	4	11- 8	ST						70
S 801	22	11- 7	6	10- 6					680
S 802	2	6- 8	6	5- 7					36
S 803	2	8- 1	6	7- 0					43
S 804	2	9-10	6	8- 9					53
S 805	2	11- 1	6	10- 0					59
S 806	2	12- 0	6	10-11					64
S 807	2	12- 9	6	11- 8					68
S 808	2	13- 4	6	12- 3					71
S 809	2	13-10	6	12- 9					74
S 810	2	14- 2	6	13- 1					76
S 811	2	14- 5	6	13- 4					77
S 812	2	14- 7	6	13- 6					78
S 813	2	10- 8	12	2-10	7-10	0-11			57
S 814	2	12- 1	12	4- 3	7-10	0-11			65
S 815	2	13-10	12	6- 0	7-10	0-11			74
S 816	2	15- 1	12	7- 3	7-10	0-11			81
S 817	2	16- 0	12	8- 2	7-10	0-11			85
S 818	2	16- 9	12	8-11	7-10	0-11			89
S 819	2	17- 4	12	9- 6	7-10	0-11			93
S 820	2	17-10	12	10- 0	7-10	0-11			95
S 821	2	18- 2	12	10- 4	7-10	0-11			97
S 822	2	18- 5	12	10- 7	7-10	0-11			98
S 823	2	18- 7	12	10- 9	7-10	0-11			99
S 824	4	12- 2	ST						130
S1001	93	30- 0	ST						12005
								TOTAL SUPERSTRUCTURE =	31891

REPLACEMENT BARS

RE 401	1	6- 3	10	6- 3	1- 4			
RE 501	1	6- 7	ST					
RE 601	1	6-11	ST					
RE 701	1	7- 2	ST					
RE 801	1	7- 6	ST					
RE 901	1	7-10	ST					
RE1001	1	8- 0	ST					
RE1101	1	8- 6	ST					
							GRAND TOTAL FOR BRIDGE =	65,213

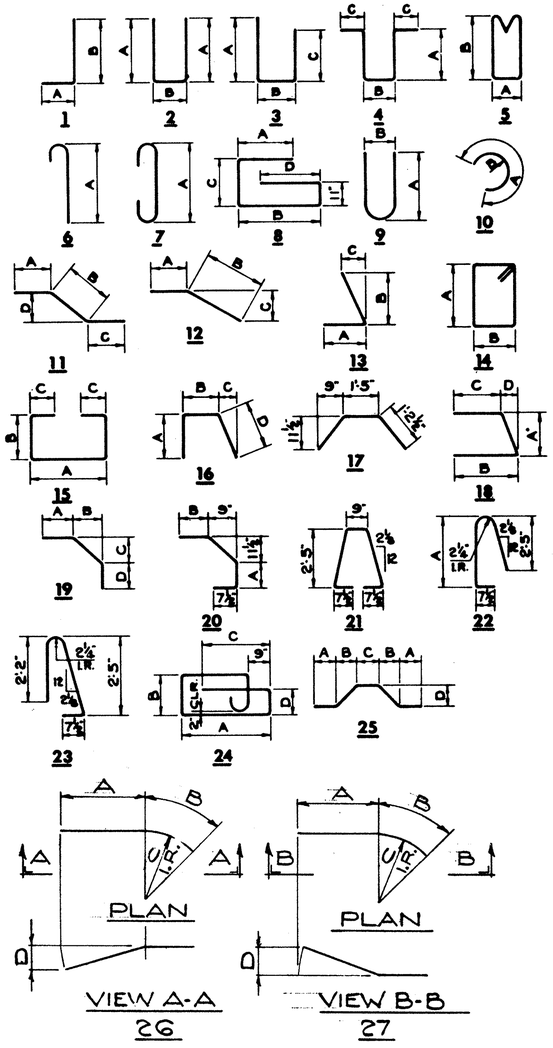
BAR SIZE IS INDICATED IN THE BAR MARK. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR DIGITS ARE USED, INDICATE THE BAR SIZE NUMBER. FOR EXAMPLE, A 700 IS A NO. 7 SIZE BAR AND A1014 IS A NO. 10 SIZE BAR.

MICROFILMED MAR 02 1979

FED. RD.	STATE	PROJECT	
2	OHIO		

404 H 460

SUM-8-17.63



STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

8 / 8

DALTON · DALTON ASSOCIATES

REINFORCING SCHEDULE

BRIDGE Nº SUM-8-1927
UNDER PEDESTRIAN BRIDGE
SUMMIT CO. CUYAHOGA FALLS EXPY.
STA 314+04.50

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
GWMc	JWW		CWW 4/4/69	RDH 4-4-69	