

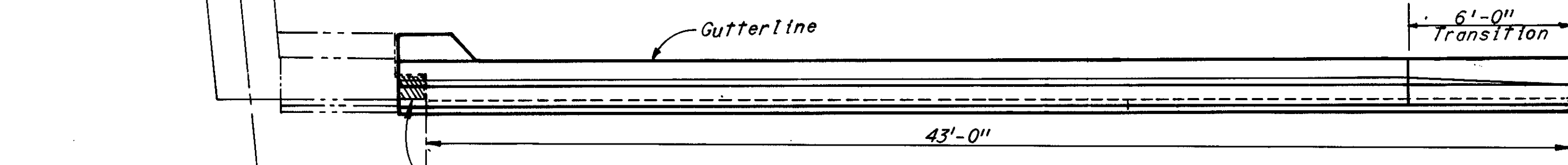
MICROFILMED
APR 16 1985

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	TYPE FUNDS
2	OHIO		

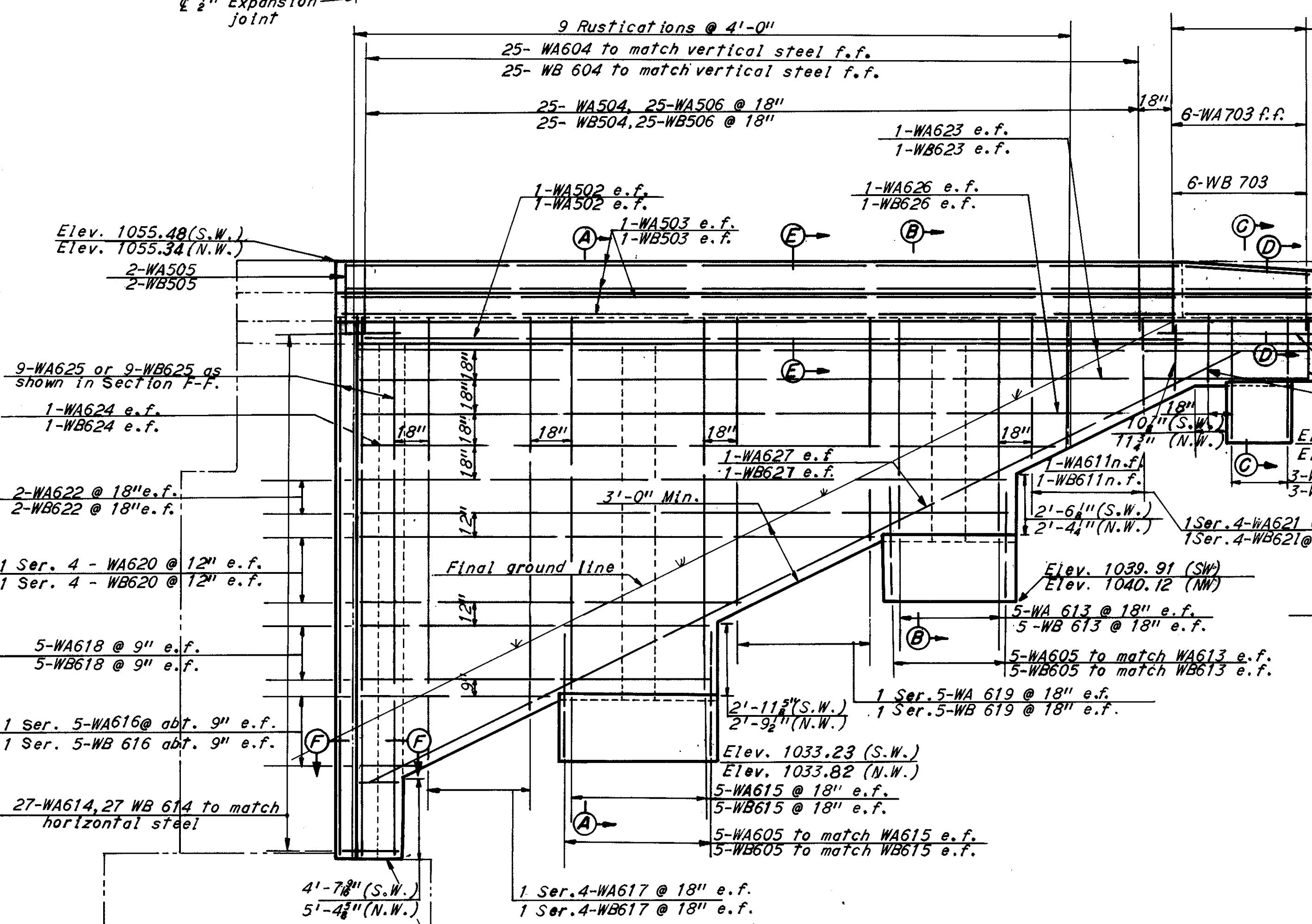
273
299

STARK COUNTY
STA-30-15.04
STA-77-9.22

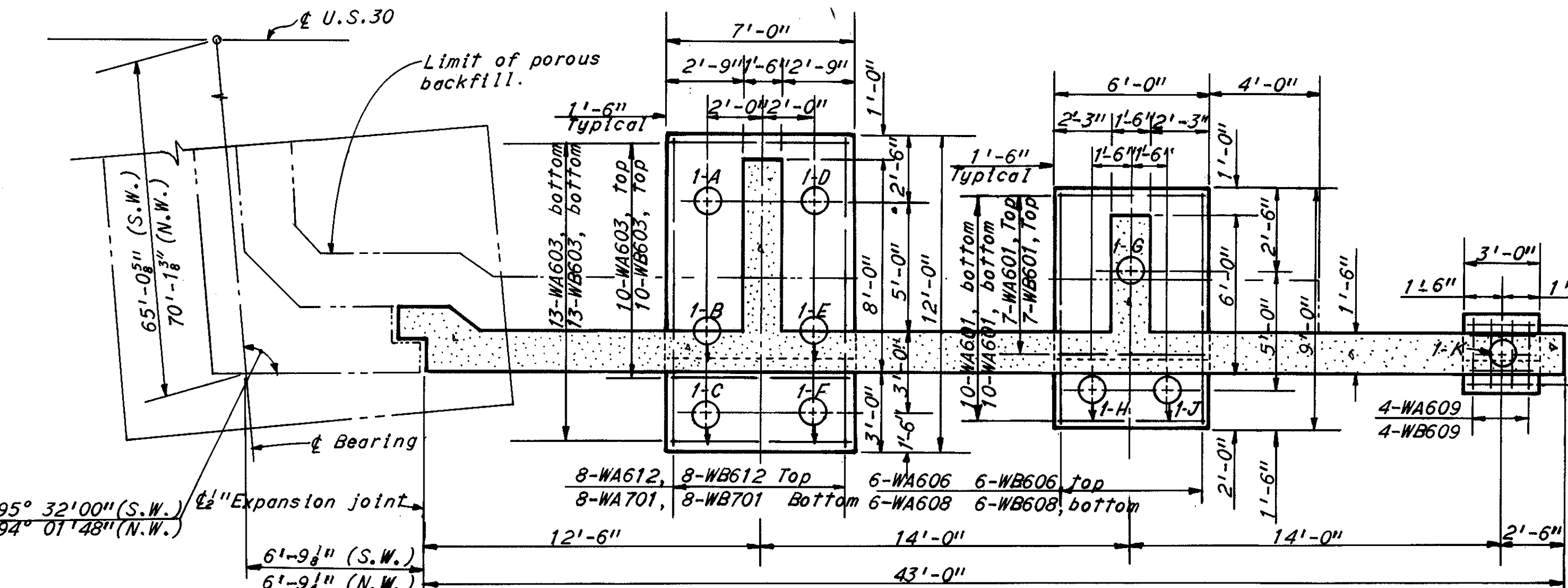
Note:
Parapet transitions shall be as shown on
Standard Drawing BR-1-67 revised 10-15-71. Reinforcing
steel shall be field bent or cut the revised shape.



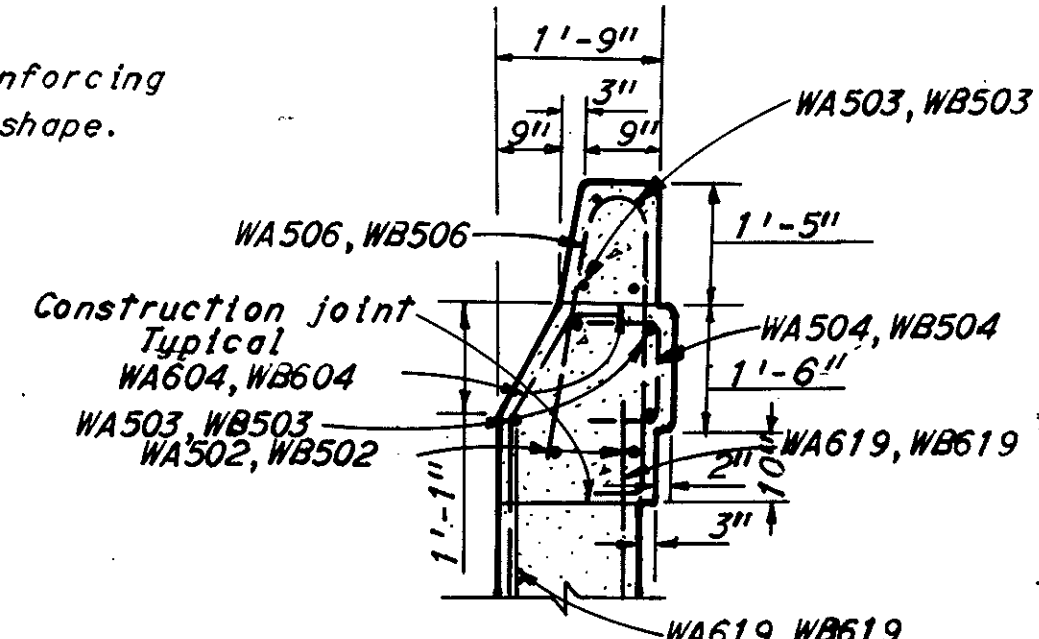
PLAN



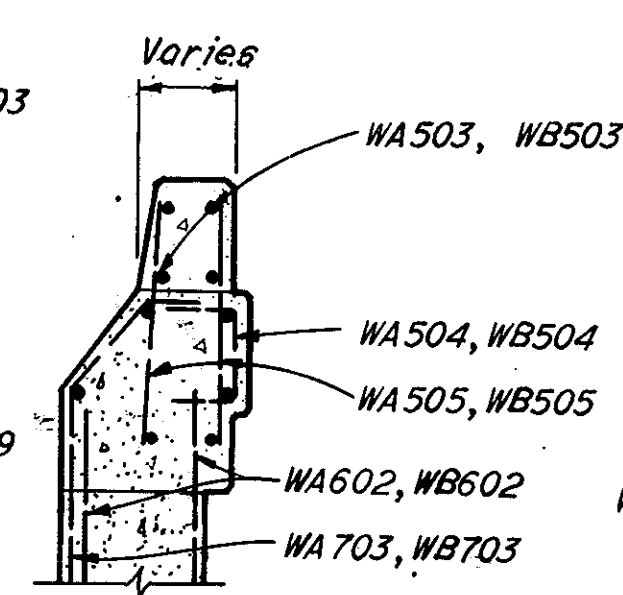
ELEVATION



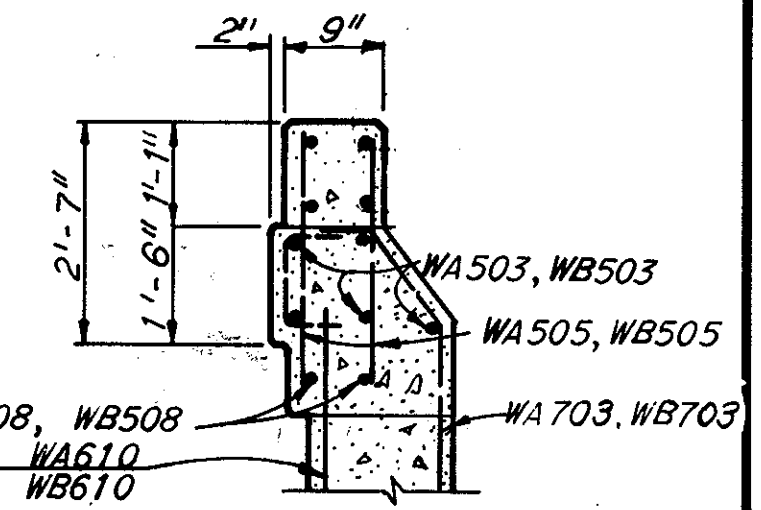
FOOTING PLAN



SECTION E-E



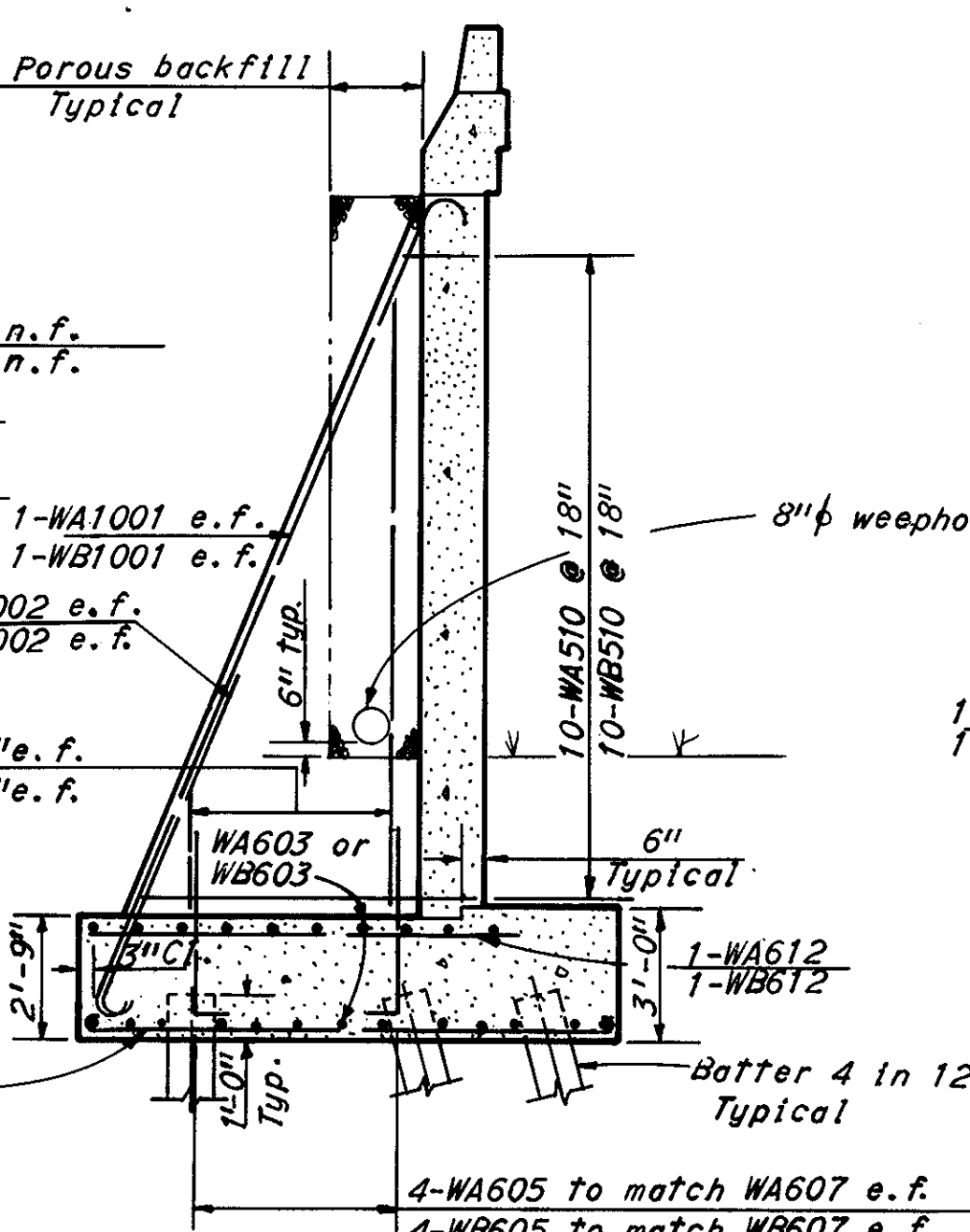
SECTION D-D



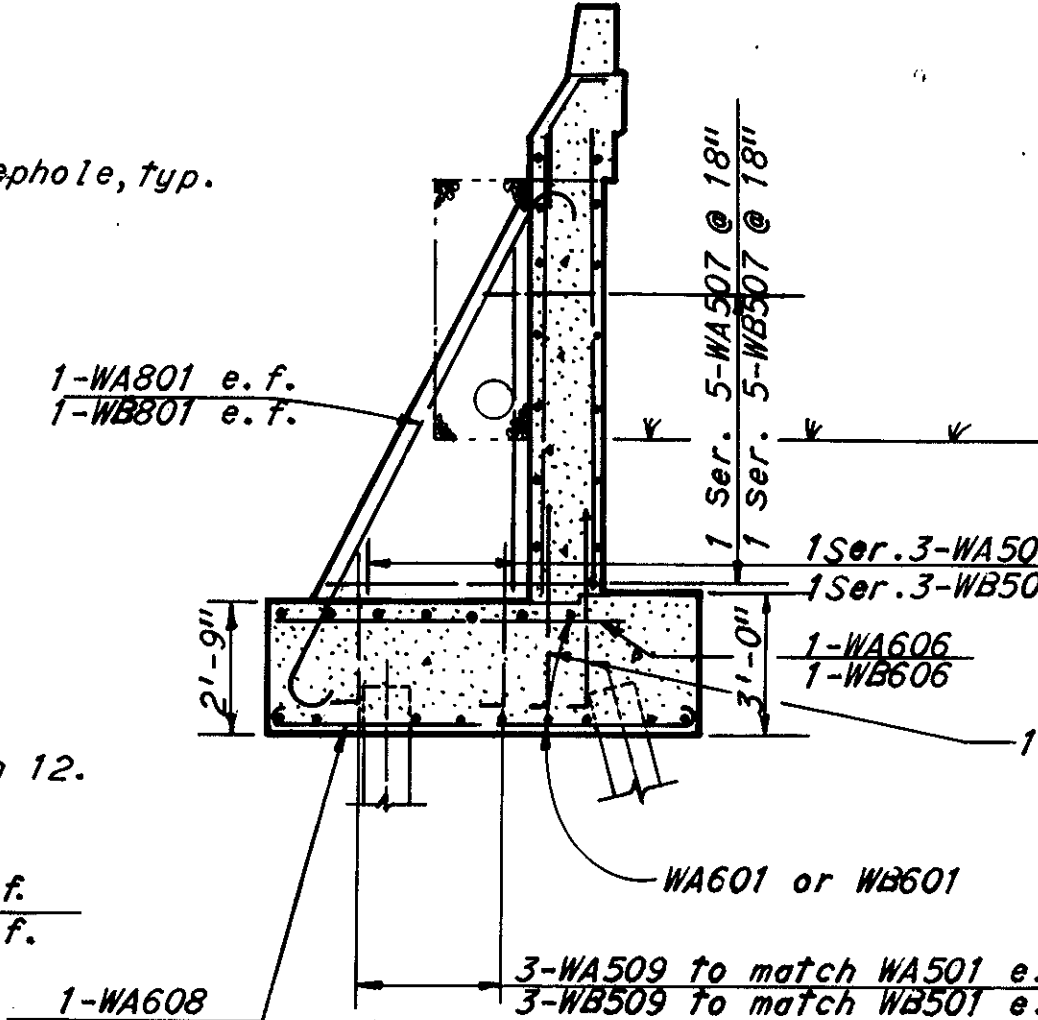
VIEW G-G

PILE NUMBER DESIGNATION			
SOUTHWEST WINGWALL		NORTHWEST WINGWALL	
A	1	A	114
B	2	B	115
C	3	C	116
D	4	D	117
E	5	E	118
F	6	F	119
G	7	G	120
H	8	H	121
J	9	J	122
K	10	K	123

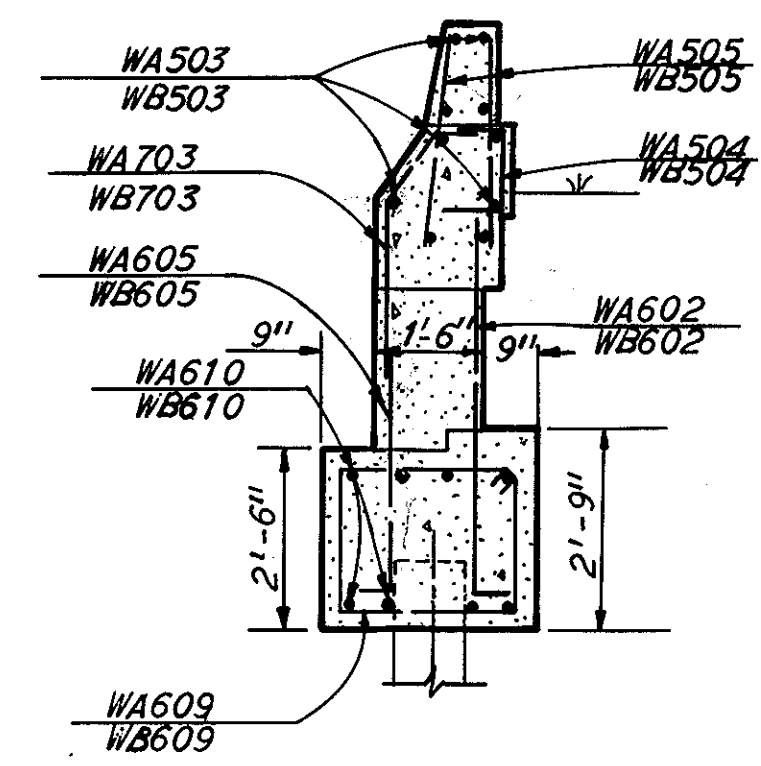
Piles under the Southwest Wingwall
shall be numbered 1-1 thru 1-10, under
the West Abutment 1-11 thru 1-113, and
under the Northwest Wingwall, 1-114
thru 1-123.



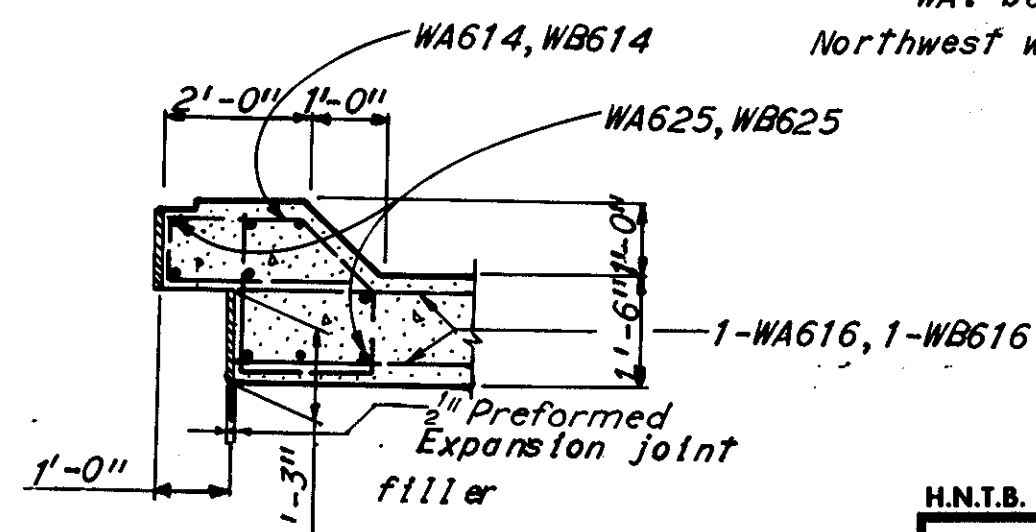
SECTION A-A



SECTION B-B



SECTION C-C



SECTION F-F

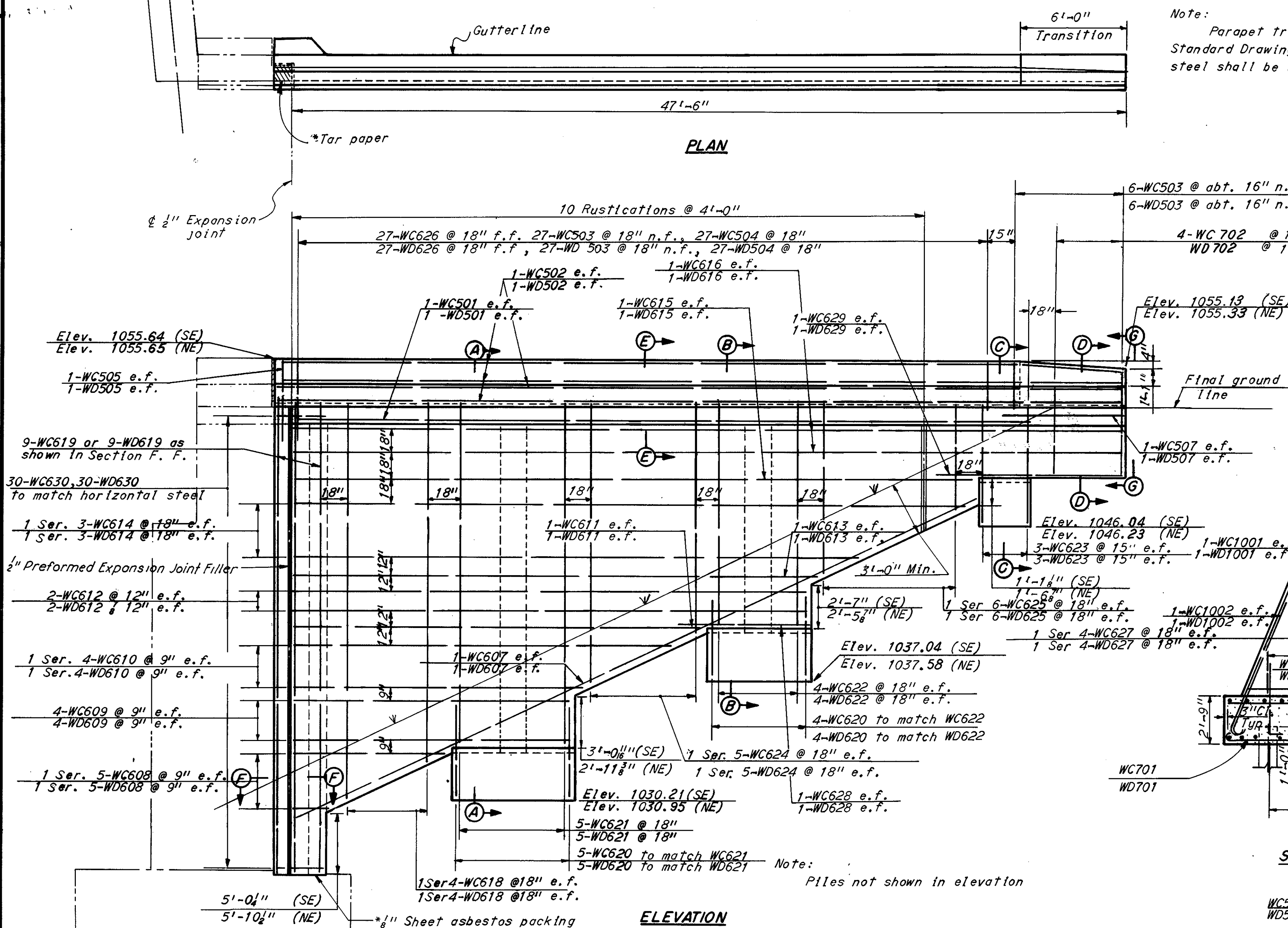
Notes:
For notes not shown see Sheet 8/13
S.W. denotes Southwest.
N.W. denotes Northwest.
WA. bars and WB-bars are for Southwest and
Northwest wingwalls, respectively.

H.N.T.B. BRIDGE NO. 16
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY CLEVELAND NEW YORK

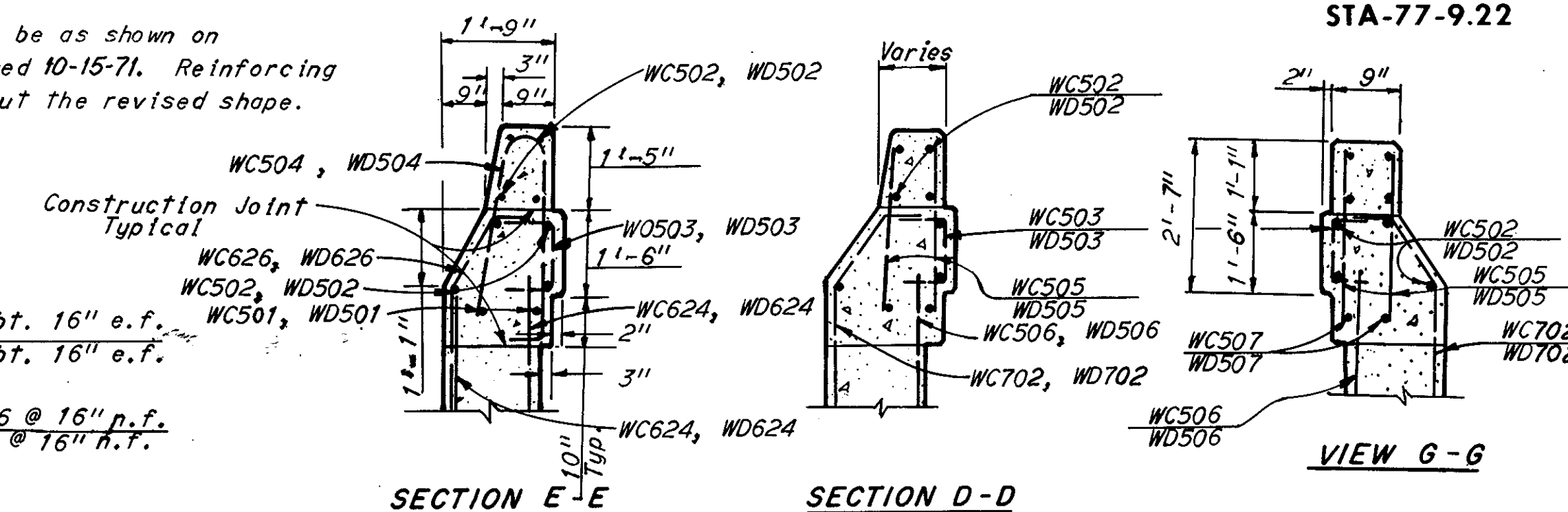
SOUTHWEST AND NORTHWEST
WINGWALLS
U.S. 30 OVER CHERRY AVENUE
BR. NO. STA-30-15.60 STA. 998+28.29
SCALE: 1/4"=1'-0" STA. 999+26.26
RELOCATED U.S. 30
CANTON STARK COUNTY OHIO

DRAWN BY: J.A.P. TRACED DATE: 9-1-76 CHECKED DATE: 10-2-70 REVIEWED DATE: 11-24-71 REVISIONS: 1668

STARK COUNTY
STA-30-15.04
STA-77-9.22

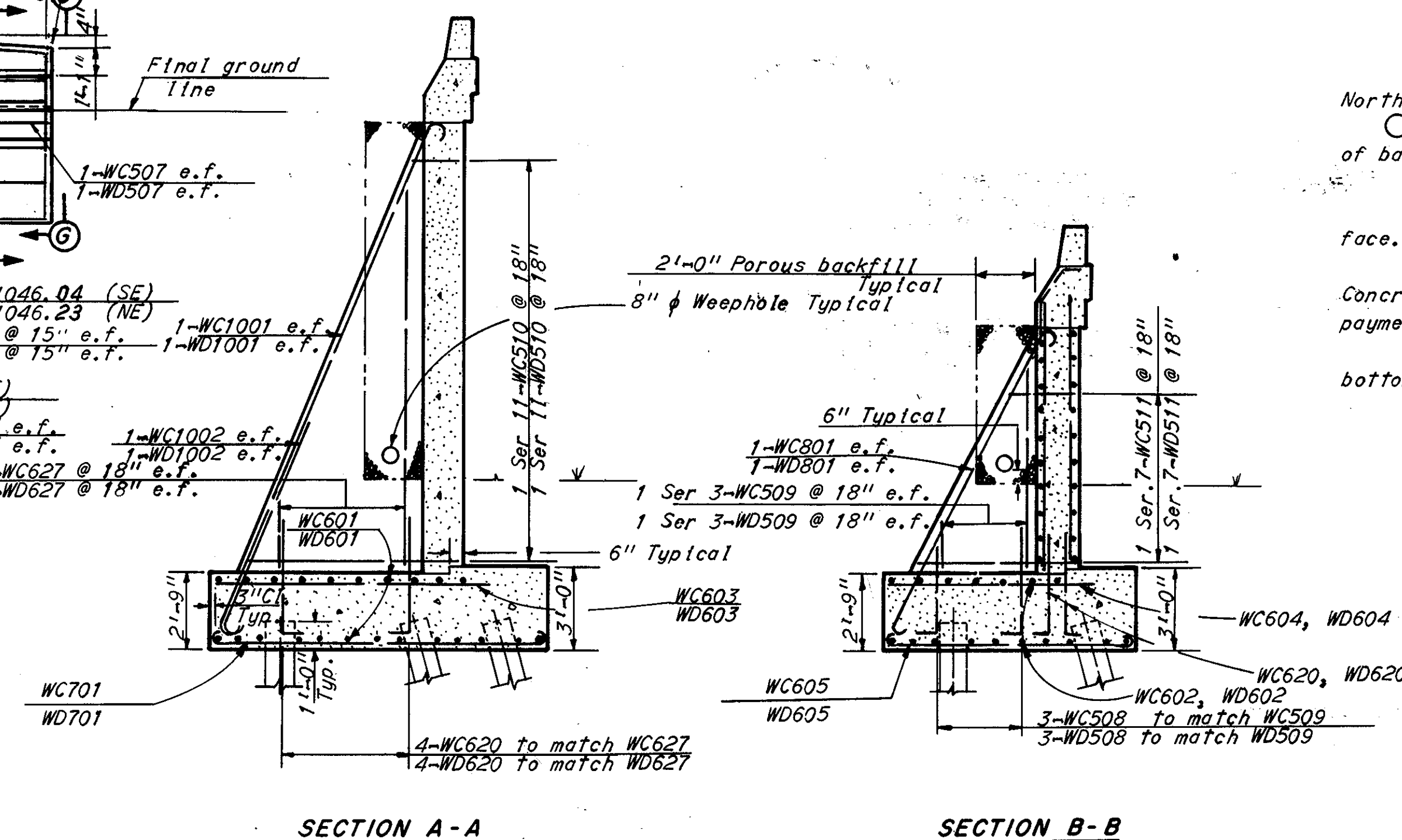


Note: Parapet transitions shall be as shown on Standard Drawing BR-1-67 revised 10-15-71. Reinforcing steel shall be field bent or cut the revised shape.



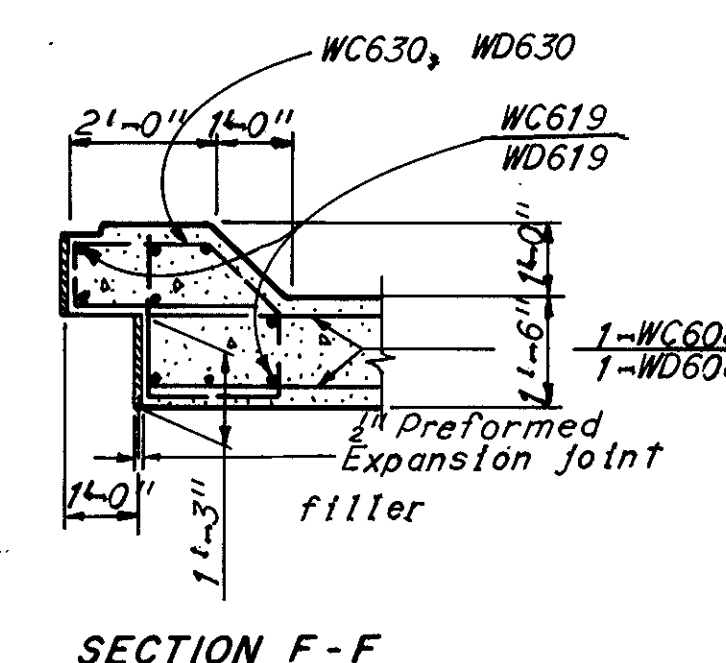
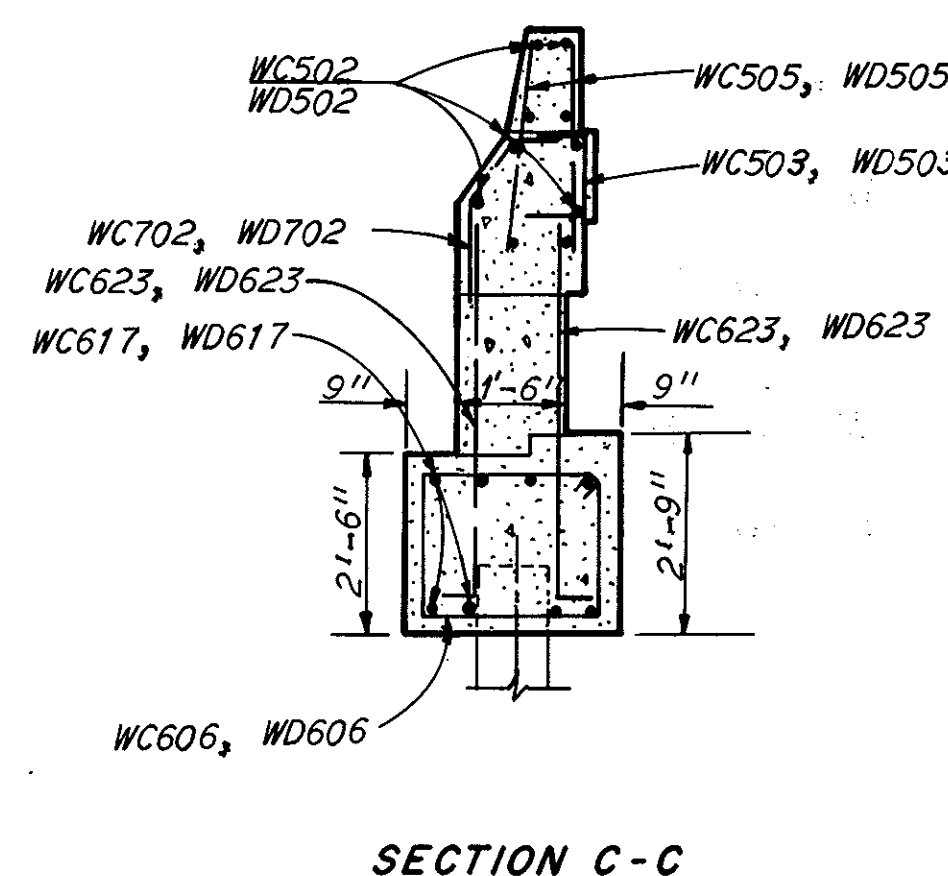
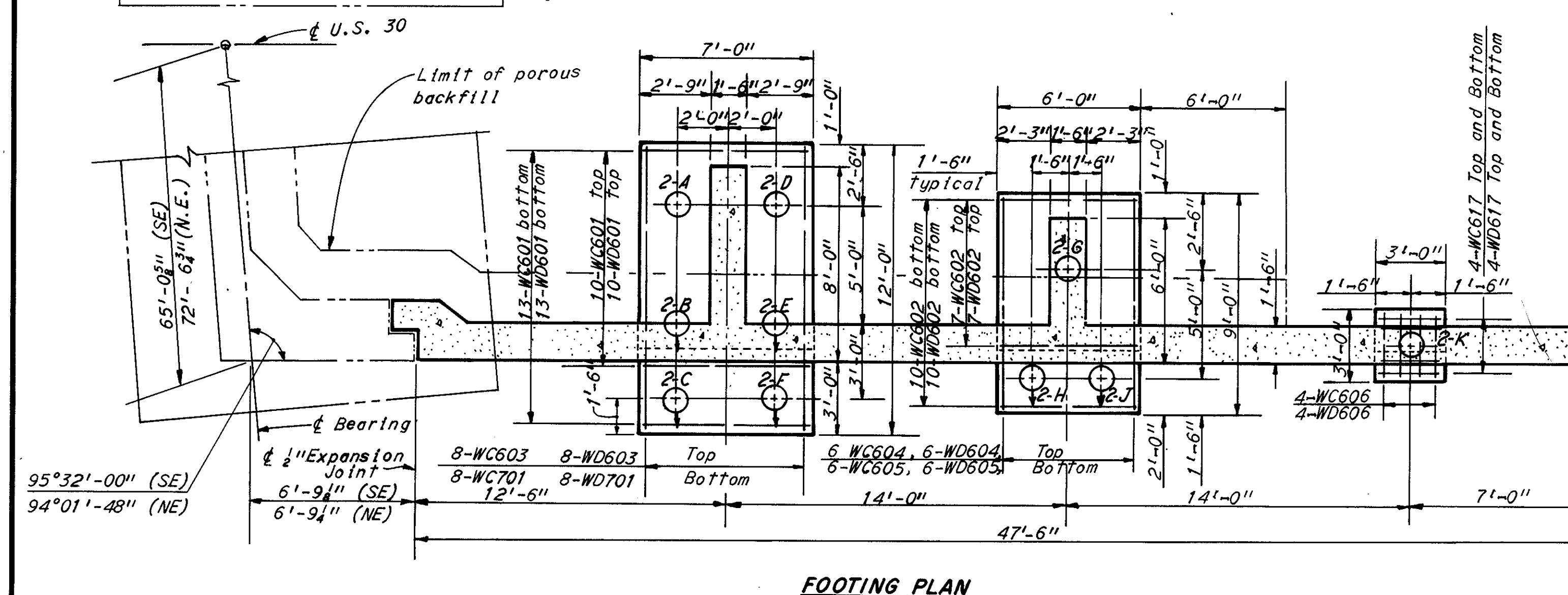
Notes:

- S.E. denotes Southeast
- N.E. denotes Northeast
- WC-bars and WD-bars are for Southeast and Northeast wingwalls respectively.
- Denotes battered piles and direction of batter. Piles are battered 4 in 12.
- All piles are 12" ϕ cast-in-place Concrete.
- e.f. denotes each face, f.f. denotes far face.
- n.f. denotes near face.
- * To be included with "Item 511, Class "C" Concrete and wingwalls above footings" for payment.
- Pile dimensions are measured along bottom of footing.
- For rustication detail see Sheet 203.
- For reinforcement schedule see Sheet 12/13



PILE NUMBER DESIGNATION			
NORTHEAST WW		SOUTHEAST WW	
A	1	A	129
B	2	B	130
C	3	C	131
D	4	D	132
E	5	E	133
F	6	F	134
G	7	G	135
H	8	H	136
J	9	J	137
K	10	K	138

Piles under the Northeast Wingwall shall be numbered 2-1 thru 2-10, under the East Abutment 2-11 thru 2-128, and under the Southeast Wingwall, 2-129 thru 2-138.

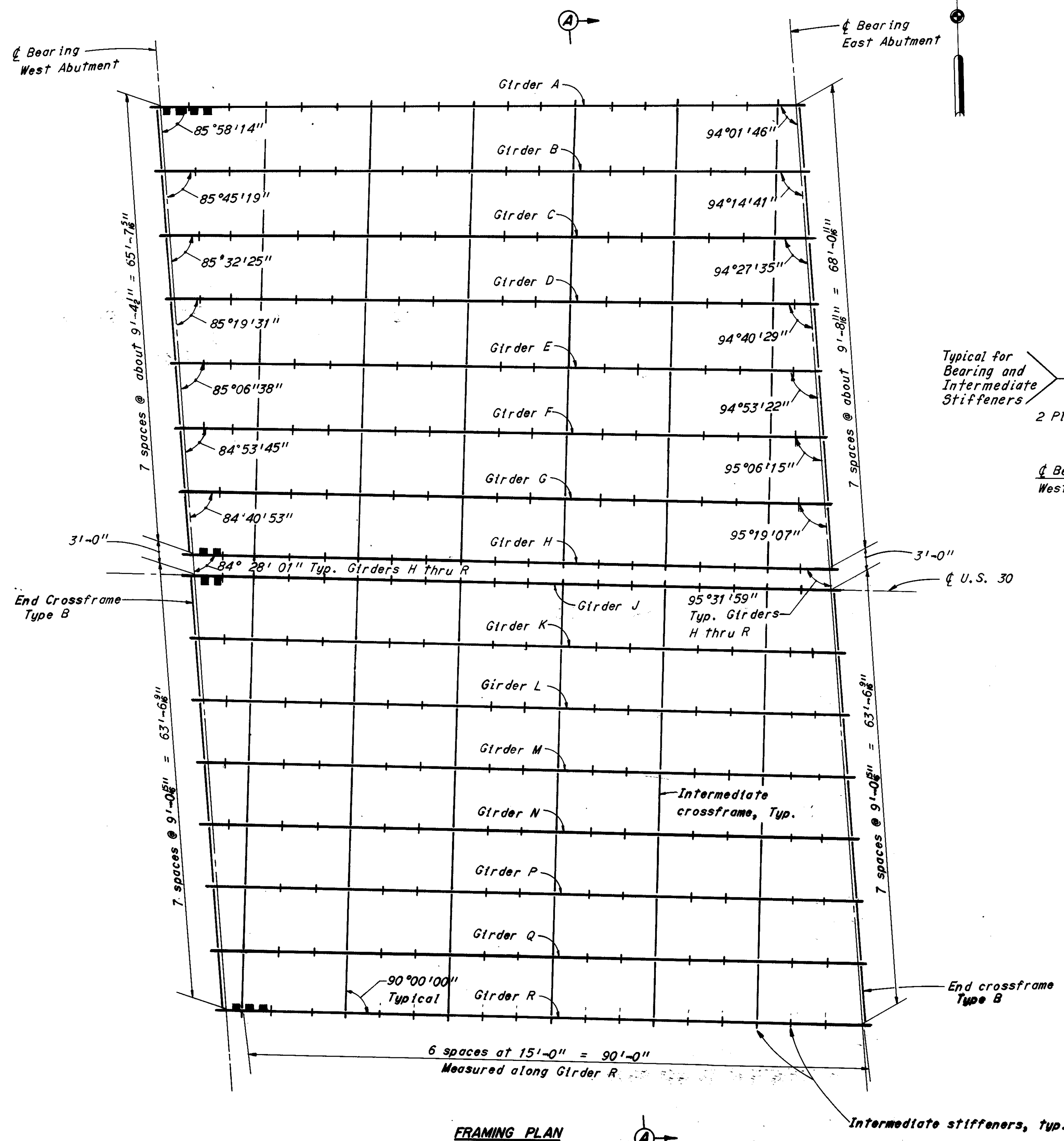


MICROFILMED
APR 16 1985

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	TYPE FUNDS
2	OHIO		

275
299

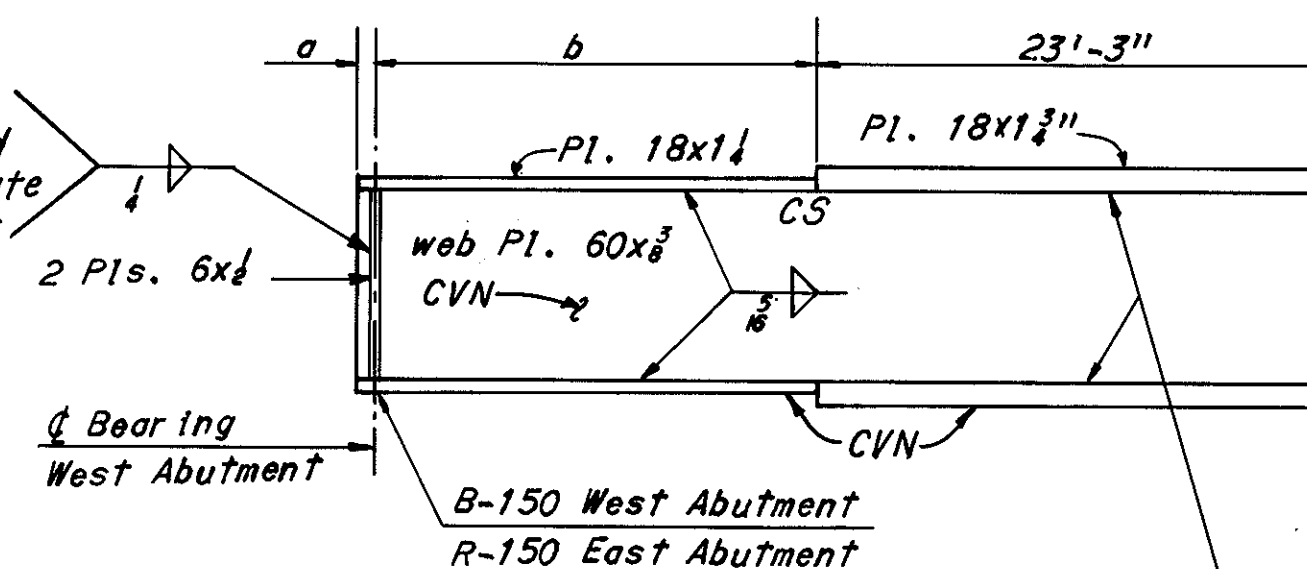
STARK COUNTY
STA-30-15.04
STA-77-9.22



FRAMING PLAN

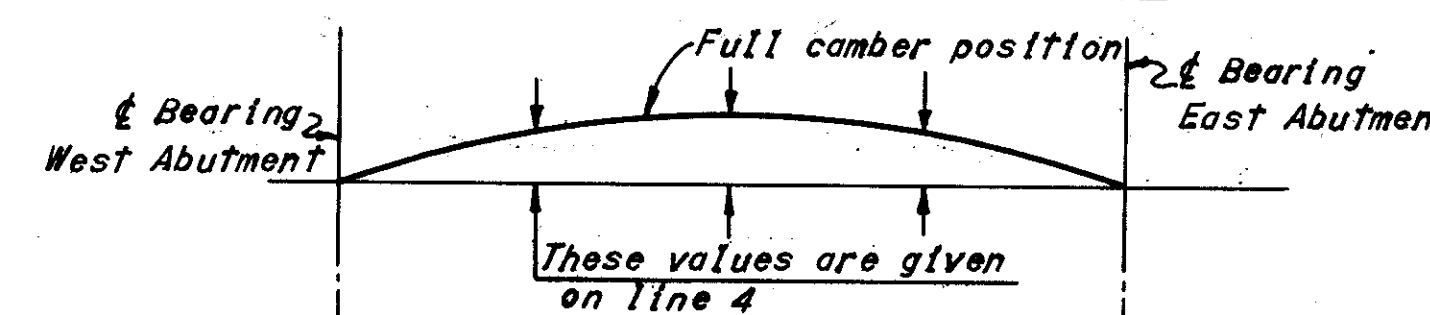
TABLE OF DIMENSIONS									
Girder	A	B	C	D	E	F	G	H	J Thru R
a	1'-0"	1'-0"	1'-0 1/4"						1'-0 1/4"
b	23'-1 1/2"	23'-1 5/8"	23'-1 5/8"	23'-1 5/8"	23'-2 1/8"	23'-2 3/8"	23'-2 1/4"	23'-2 1/8"	23'-2 1/8"

Typical for
Bearing and
Intermediate
Stiffeners



GIRDER ELEVATION

DEFLECTION AND CAMBER					
	W. Abut.	.25	.50	.75	E. Abut.
Girders A thru N	1 0	1/8	1/4	3/8	0
	2 0	1/8	1/4	3/8	0
	3 0	1/8	1/4	3/8	0
	4 0	1/4	1 1/8	1 1/4	0
Girder P	1 0	1/8	1/4	3/8	0
	2 0	1/8	1/4	3/8	0
	3 0	1/8	1/4	3/8	0
	4 0	1/4	1 1/8	1 1/4	0
Girder Q	1 0	1/8	1/4	3/8	0
	2 0	1/8	1/4	3/8	0
	3 0	1/8	1/4	3/8	0
	4 0	1 1/8	2 1/8	1 1/4	0
Girder R	1 0	1/8	1/4	3/8	0
	2 0	1/8	1/4	3/8	0
	3 0	1/8	1/4	3/8	0
	4 0	1 1/8	2 1/8	2	0



SCHEMATIC DETAIL

Notes:

- Line 1. Deflection due to weight of steel.
 - Line 2. Deflection due to remaining dead load.
 - Line 3. Adjustment required for vertical curve and superelevation.
 - Line 4. Required shop camber.
- Values are given to nearest 1/8 inch.

Notes:

All stiffeners shall be placed normal to girder flanges.
All intermediate stiffener to web welds shall be 1/4" continuous fillets on both sides of stiffeners.
All intermediate stiffeners shall be Pls. 5x1/8.
For top of portland cement concrete elevations see sheet 10/13.

Intermediate stiffeners shall be placed as shown on framing plan, equally spaced between crossframes or crossframes and bearing stiffeners. See Note, Sheet 200.

For intermediate crossframe details see Sheet 202. All crossframes are intermediate crossframes unless shown otherwise.

For details of roadway end dam see Ohio Standard Drawing SD-1-69, Sheet 1 of 4, and Sheet 203. For details at rockers and bolsters see Ohio Standard Drawing RB-1-55.

The girders shall be fabricated to lines parallel to profiles formed by top of pavement elevations directly over girders, plus the camber required to compensate for dead load deflection.

The allowance to be made in screed settings to compensate for dead load deflections due to concrete and wearing course are to be made above or below the top of the pavement elevations as required. Screeds may require further adjustment due to irregularities in fabricated steel.

For details of curb plates at concrete bridge railing see Ohio Standard Drawing SD-1-69, Sheet 2 of 4, and Sheet 203.

For Section A-A see Sheet 10/13.
All structural steel shall be A-36.
For drainage details see Sheet 204.

H.N.T.B. BRIDGE NO. 16	Revised 12-5-75	By RAS
HOWARD, NEEDLES, TAMMEN & BERGENDOFF	9	13
CONSULTING ENGINEERS		
KANSAS CITY CLEVELAND NEW YORK		

FRAMING PLAN

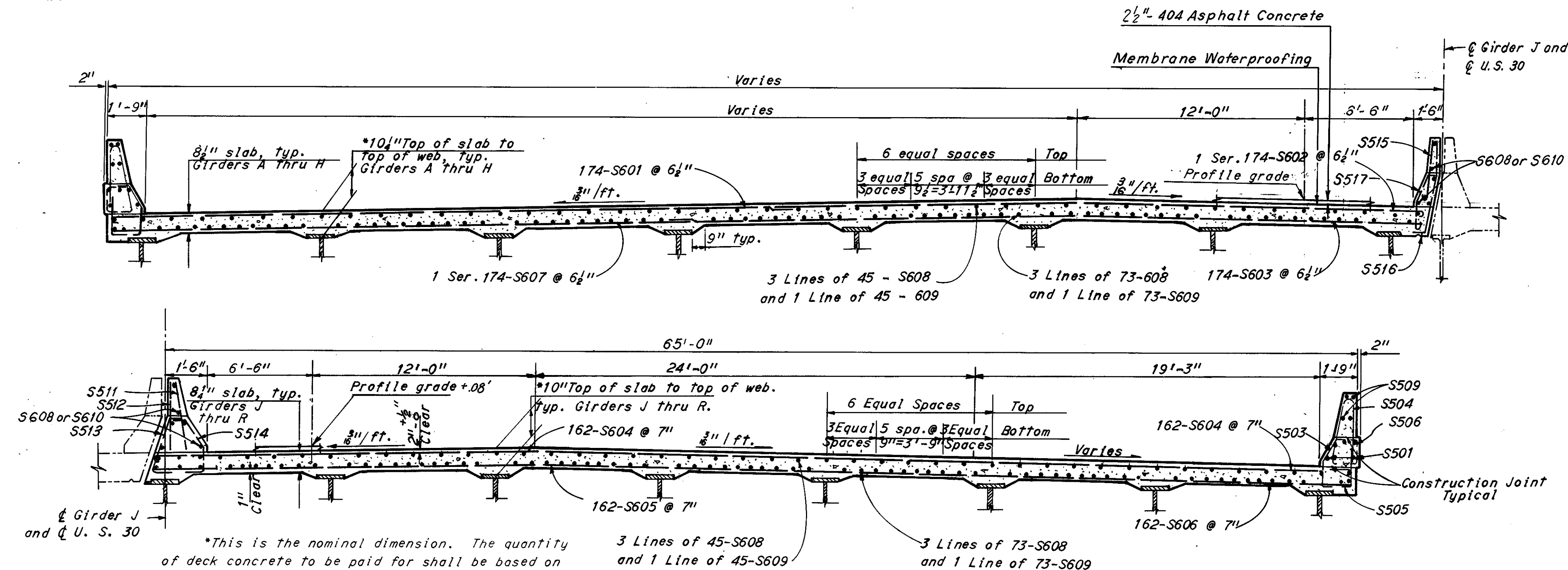
U.S. 30 OVER CHERRY AVENUE
BR. NO. STA-30-15.60 STA. 998+28.29
SCALE: 1" = 10'-0" STA. 999+26.26

RELOCATED U.S. 30

CANTON STARK COUNTY OHIO

DRAWN	TRACED	CHECKED	REVIEWED	DATE
DAF	DATE	ASS	DATE	DATE
7-2-70		8-14-70	11-24-71	1668

STARK COUNTY
STA-30-15.04
STA-77-9.22

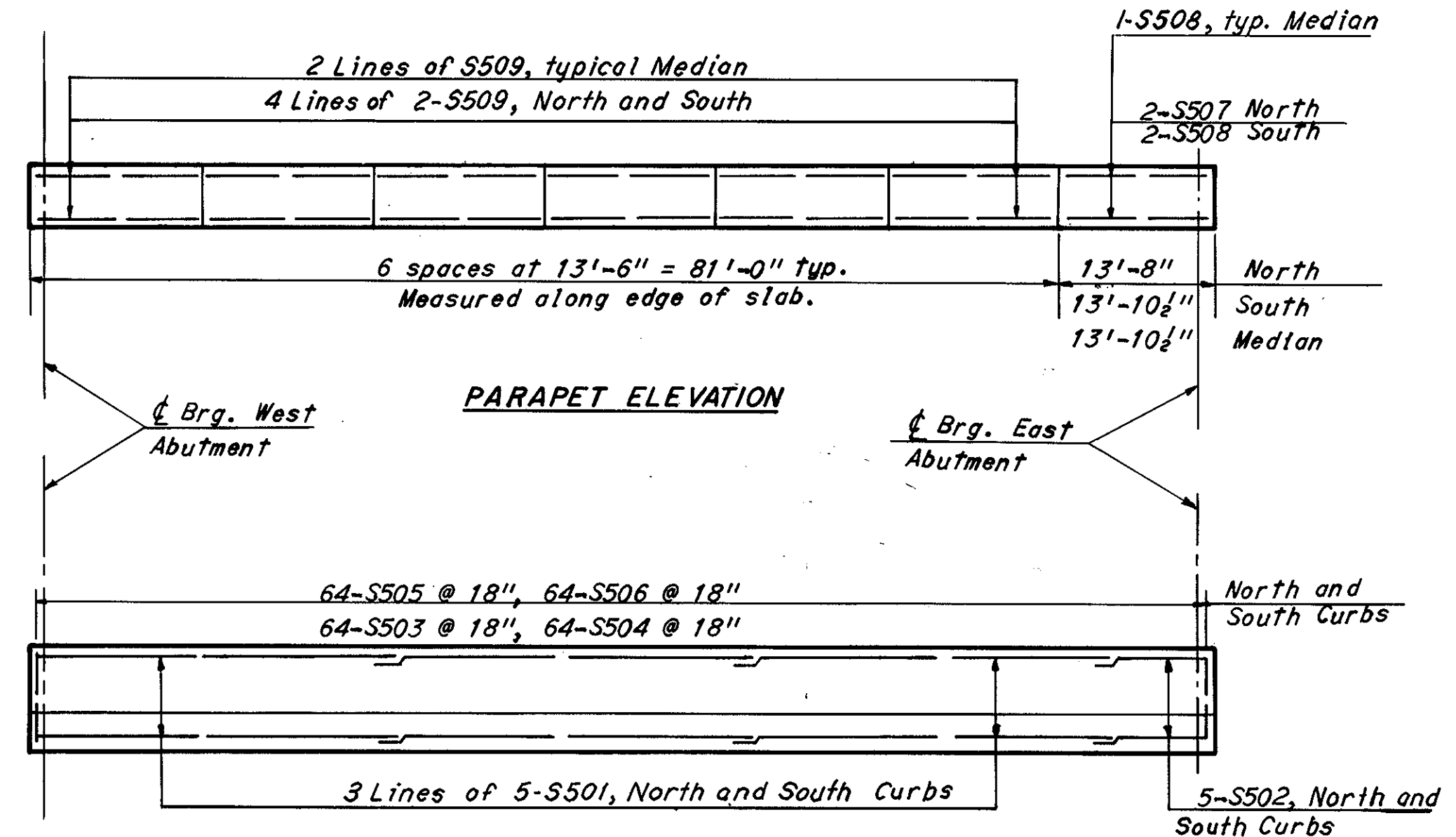


SECTION A-A

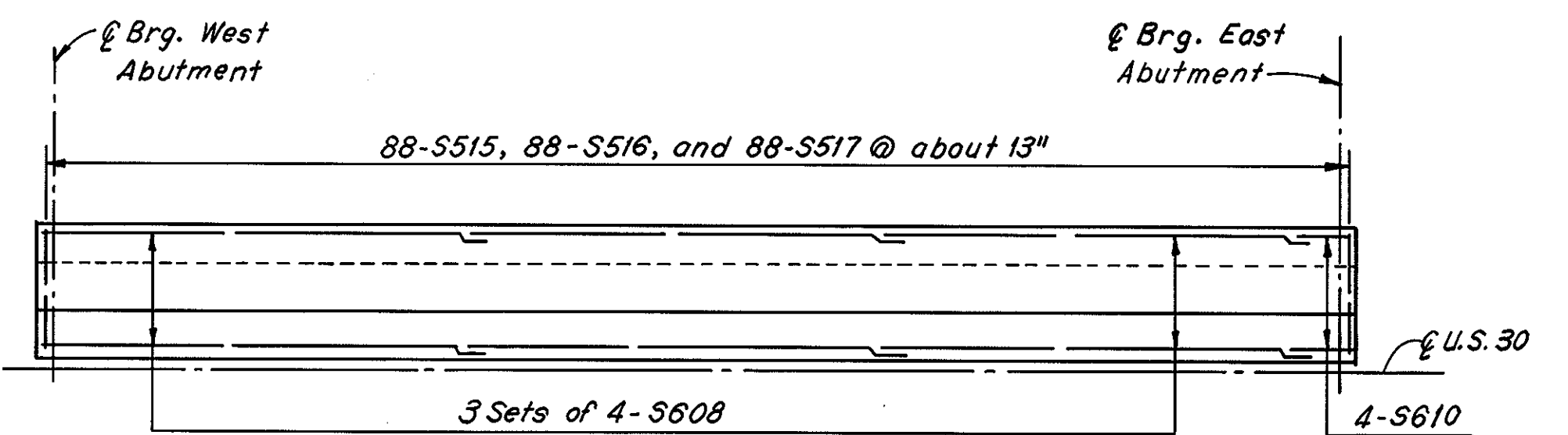
TOP OF PORTLAND CEMENT CONCRETE ELEVATIONS					
Girder	W. Abut.	.25	.50	.75	E. Abut.
A	1052.46	1052.55	1052.63	1052.69	1052.73
B	1052.61	1052.70	1052.78	1052.84	1052.88
C	1052.76	1052.86	1052.93	1052.99	1053.04
D	1052.91	1053.01	1053.08	1053.15	1053.19
E	1053.06	1053.16	1053.24	1053.30	1053.34
F	1053.21	1053.31	1053.39	1053.45	1053.49
G	1053.12	1053.22	1053.30	1053.37	1053.42
H	1052.98	1053.08	1053.16	1053.22	1053.27
J	1052.95	1053.05	1053.13	1053.20	1053.24
K	1053.08	1053.18	1053.26	1053.32	1053.36
L	1053.22	1053.32	1053.40	1053.46	1053.51
M	1053.15	1053.24	1053.32	1053.38	1053.43
N	1053.01	1053.11	1053.18	1053.24	1053.29
P	1052.87	1052.97	1053.05	1053.10	1053.14
Q	1052.73	1052.83	1052.91	1052.95	1052.95
R	1052.60	1052.69	1052.77	1052.80	1052.75

TOP OF PORTLAND CEMENT CONCRETE ELEVATIONS AT GUTTERLINE					
Gutterline	W. Abut.	.25	.50	.75	E. Abut.
North	1052.46	1052.62	1052.72	1052.76	1052.73
N. Median	1052.95	1053.12	1053.22	1053.27	1053.24
S. Median	1052.95	1053.12	1053.22	1053.27	1053.24
South	1052.60	1052.76	1052.86	1052.87	1052.75

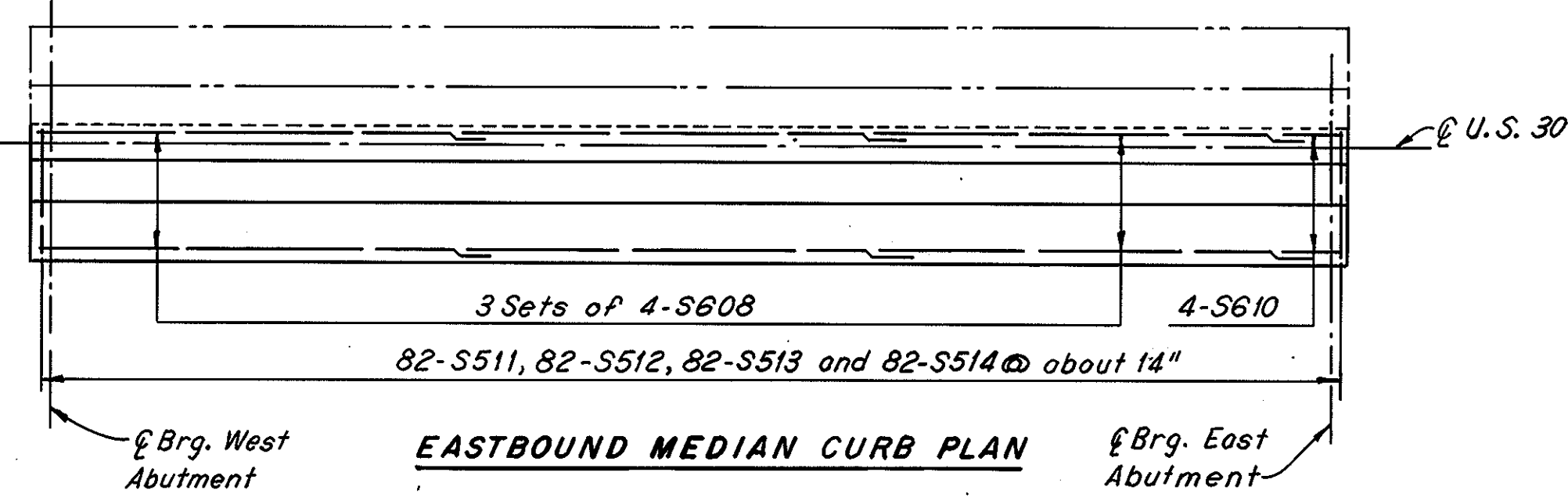
Note:
The gutterline elevations shown have been adjusted for the dead load deflections caused by the weight of the concrete and wearing course and are the elevations required before the concrete deck is placed.



CURB PLAN



WESTBOUND MEDIAN CURB PLAN



EASTBOUND MEDIAN CURB PLAN

Notes:
Reinforcing steel shall be adjusted as required to clear scuppers. 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.
For concrete railing details see Sheet 203.
For deflection joint details see Sheet 203.
For reinforcement schedule see Sheet 13/13.
Transverse reinforcing steel shall be placed parallel to bearing of abutments.
For median details see sheet 203.
For Location of Section A-A see Sheet 9/13.
For curb and parapet dimensions see Sheet 203.
For subdrainage details, see Sheet 204A.

H.N.T.B. BRIDGE NO. 16
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY CLEVELAND NEW YORK

DECK PLAN

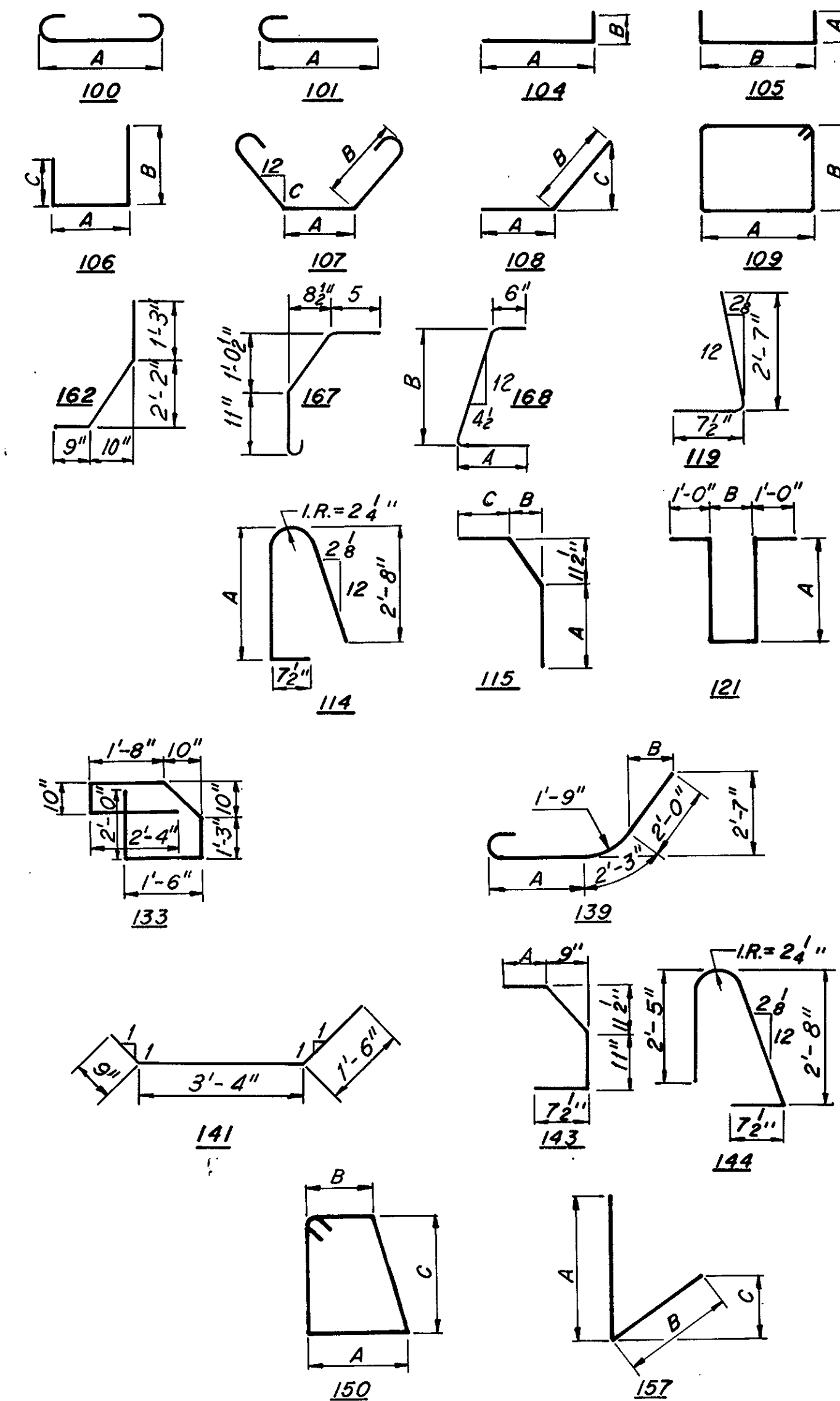
U.S. 30 OVER CHERRY AVENUE
BR. NO. STA-30-15.60
SCALE: NONE
RELOCATED U.S. 30
CANTON STARK COUNTY OHIO
BR. NO. STA-30-15.60
SCALE: NONE
RELOCATED U.S. 30
CANTON STARK COUNTY OHIO
DATE 7-25-70
DATE 8-19-70
DATE 11-24-71
1668

PHOTOFILMED
APR 16 1985

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS			SERIES INCRE.	WEIGHT POUNDS
				A	B	C		
WEST ABUTMENT								
AA401	96	3'-11"	105	1'-0"	2'-2"			251
AA501	4	4'-0"	168	9"	2'-7"			17
AA502	4	3'-4"	143	9"				14
AA505	15	17'-0"	Str.					266
AA507	50	28'-2"	Str.					1,469
AA508	19	41'-6"	Str.					822
AA509	5	42'-6"	Str.					222
AA510	111	13'-10"	Str.					1,610
AA511	1 Ser. 40	16'-10" to 17'-4"	Str.				8"	711
AA512	54	17'-2"	Str.					966
AA513	9 Ser. 10	11'-8" to 21'-8"	121	4'-6" to 9'-6"	1'-2"		1 1/8"	1,570
AA514	287	5'-9"	104	4'-10"	1'-0"			1,720
AA515	8	2'-3"	105	7 1/2"	1'-3"			19
AA516	8	7'-2"	114	3'-3"				60
AA517	10	6'-2"	104	4'-2"	2'-1 1/2"			64
AA518	10	5'-11"	104	4'-2"	1'-10 1/2"			62
AA519	5	8'-5"	104	6'-8"	1'-10 1/2"			44
AA520	10	8'-3"	104	6'-3"	2'-2"			86
AA521	6	23'-10"	Str.					149
AA522	8	1'-6"	Str.					12
AA523	9 Ser. 3	14'-0" to 4'-9"	Str.				4'-7 1/2"	264
AA526	19	36'-0"	Str.					713
AA527	24	17'-3"	Str.					432
AA528	37	16'-8"	Str.					644
AA529	5	35'-0"	Str.					183
AA530	91	5'-8"	105	1'-0"	3'-11"			537
AA531	6	23'-9"	Str.					148
AA532	3	16'-9"	Str.					52
AA533	36	16'-10"	Str.					634
AA534	16	4'-2"	Str.					70
AA535	5	8'-6"	157	6'-9"	1'-11"	6 3/4"		64
AA536	8	22'-3"	Str.					185
AA601	139	12'-6"	Str.					2,620
AA602	26	12'-7"	106	11"	9'-0"	3'-0"		491
AA604	106	13'-1"	106	11"	9'-6"	3'-0"		2,080
AA605	1 Ser. 39	12'-5" to 13'-1"	108	7'-10" to 8'-6"	4'-7"	3'-3"	1 3/8"	747
AA606	1 Ser. 28	12'-10" to 13'-1"	108	8'-3" to 8'-6"	4'-7"	3'-3"	1 1/4"	545
AA608	48	27'-2"	Str.					1,950
AA609	24	41'-6"	Str.					1,495
AA610	107	9'-1"	104	8'-3"	1'-0"			1,460
AA611	36	10'-1"	133					545
AA612	36	3'-10"	104	1'-11"	2'-1"			208
AA613	80	5'-9"	105	2'-7"	11"			691
AA614	8	4'-11"	115	3'-3"	9"			59
AA615	24	8'-3"	104	6'-3"	2'-2"			298
AA616	12	8'-5"	104	6'-8"	1'-11"			152
AA617	12	8'-8"	108	6'-9"	1'-11"	1'-4"		156
AA618	55	12'-7"	108	8'-0"	4'-7"	3'-3"		1,040
AA619	7	12'-2"	108	7'-7"	4'-7"	3'-3"		128
AA620	5	9'-0"	Str.					68
AA621	24	35'-0"	Str.					1,260
AA622	12	8'-11"	108	7'-0"	1'-11"	1'-3"		161
AA623	12	8'-6"	157	6'-9"	1'-11"	6 3/4"		153
DA801	90	5'-5"	141	3'-4"				1302
AA801	164	15'-10"	100	14'-0"				6,933

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS			SERIES INCRE.	WEIGHT POUNDS
				A	B	C		
AA901	54	60'-0"	Str.					11,000
AA902	27	24'-9"	Str.					2,270
AA1101	2	23'-11"	Str.					254
AA1102	4	11'-9"	104	11'-0"	1'-0"			250
AA1103	6	7'-3"	104	6'-6"	1'-0"			231
AA1104	2	23'-9"	Str.					252
AA1105	36	25'-4"	139	19'-6"	6 3/4"			4,840
AA1106	36	12'-10"	101	11'-3"				2,450
AA1107	1	22'-6"	Str.					120
AA1108	1	22'-3"	Str.					121
EAST ABUTMENT								
AB401	96	3'-11"	105	1'-0"	2'-2"			251
AB501	18 Ser. 3	15'-3" to 4'-9"	Str.				5'-3"	570
AB502	25	28'-2"	Str.					734
AB503	113	16'-9"	Str.					1,970
AB504	36	19'-11"	Str.					746
AB505	39	20'-3"	Str.					825
AB506	6	37'-3"	Str.					234
AB507	19	38'-0"	Str.					753
AB510	40	19'-9"	Str.					825
AB511	30	20'-5"	Str.					639
AB512	4	3'-10"	168	9"	2'-7"			16
AB513	4	3'-4"	143	9"				14
AB514	93	5'-8"	105	1'-0"	3'-11"			551
AB515	290	5'-9"	104	4'-10"				1,740
AB516	12	27'-0"	Str.					338
AB517	8	1'-6"	Str.					12
AB518	16	4'-0"	Str.					67
AB519	5	8'-6"	104	6'-8 1/2"	1'-11"			44
AB520	10	8'-7"	104	6'-6"	2'-2"			89
AB521	8	2'-3"	105	7 1/2"	1'-3"			19
AB522	8	7'-2"	114	3'-3"				60
AB523	19	31'-3"	Str.					619
AB526	9 Ser. 12	11'-2" to 21'-8"	121	4'-3" to 9'-6"	1'-2"		5 1/2"	1,850
AB527	19	38'-6"	Str.					763
AB529	6	33'-3"	Str.					209
AB530	6	37'-6"	Str.					235
AB531	28	20'-6"	Str.					598
AB532	39	20'-0"	Str.					814
AB533	10	6'-1"	104	4'-0 1/2"	2'-2"			63
AB534	10	5'-10"	104	4'-0 1/2"	1'-11"			61
AB535	5	8'-6"	157	6'-9"	1'-11"	6 3/4"		44
AB536	8	25'-6"	Str.					213
AB601	142	12'-6"	Str.					2,675
AB602	109	8'-10"	104	8'-0"	1'-0"			1,440
AB603	32	27'-2"	Str.					1,310
AB604	108	12'-7"	106	11"	9'-0"	3'-0"		2,040
AB605	76	12'-10"	108	8'-3"	4'-7"	3'-3"		1,465
AB606	32	37'-3"	Str.					1,790
AB607	29	12'-4"	108	7'-9"	4'-7"	3'-3"		538
AB608	27	12'-0"	108	7'-5"	4'-7"	3'-3"		487
AB609	27	12'-5"	106	11"	8'-10"	3'-0"		504
AB610	6	9'-0"	Str.					81

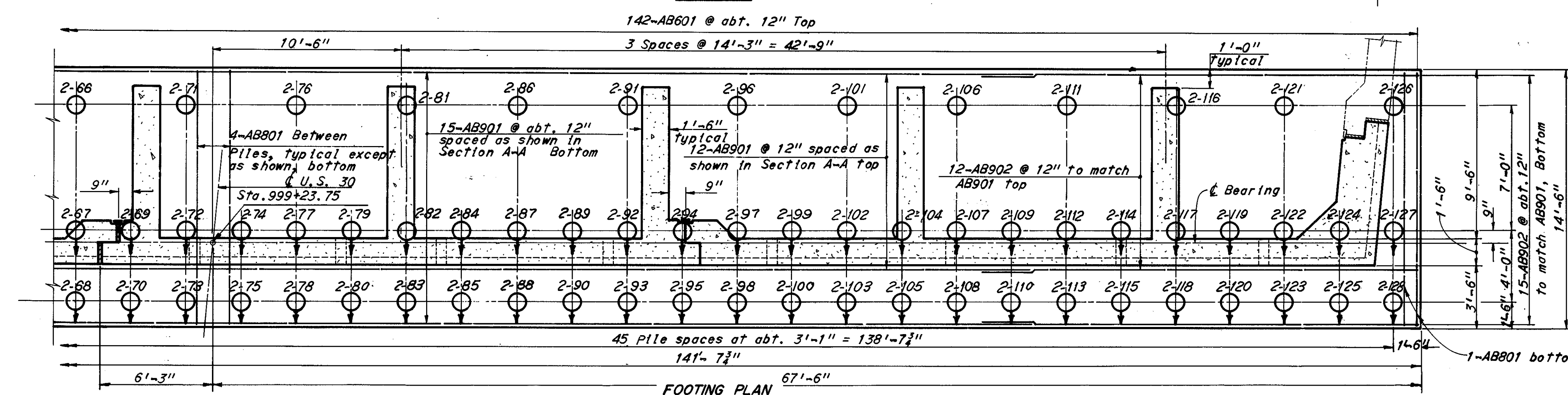
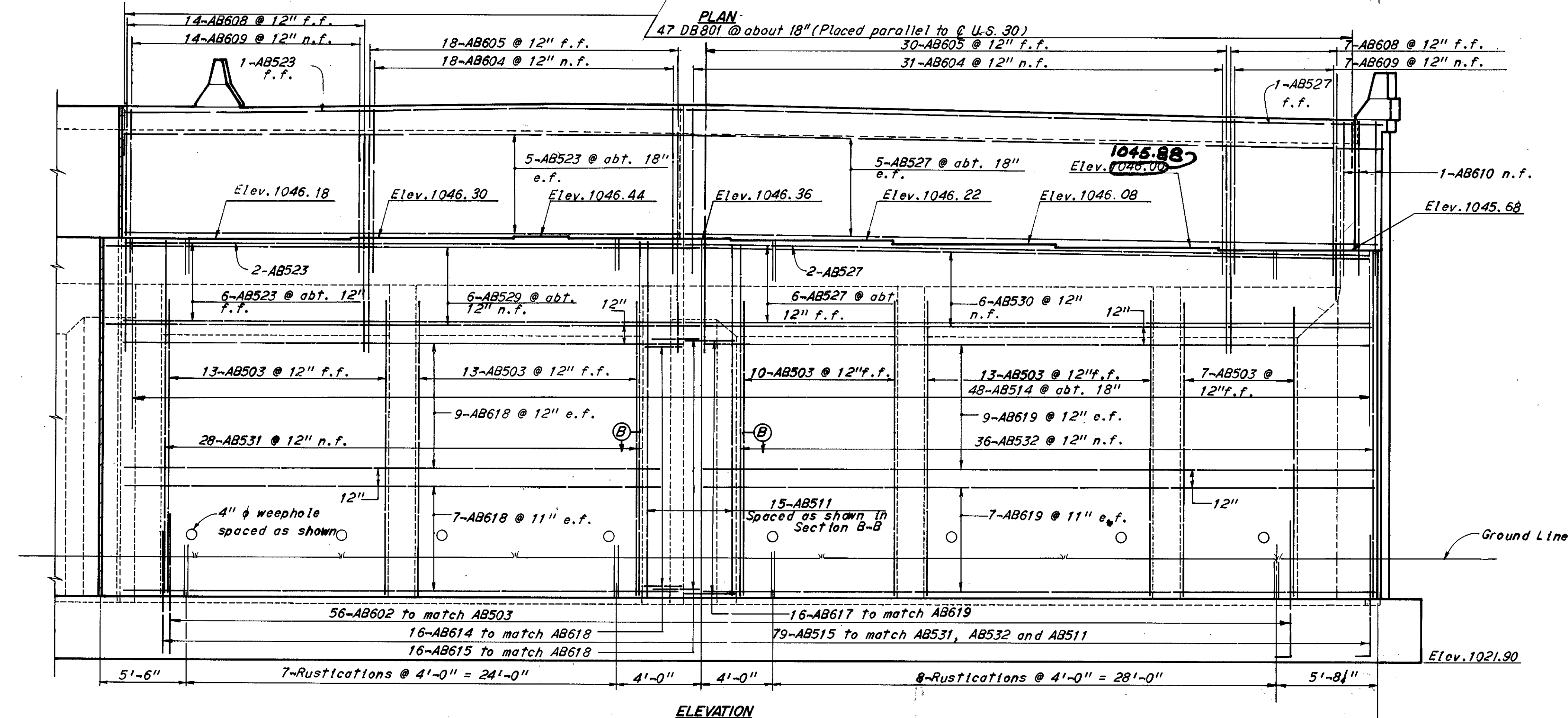
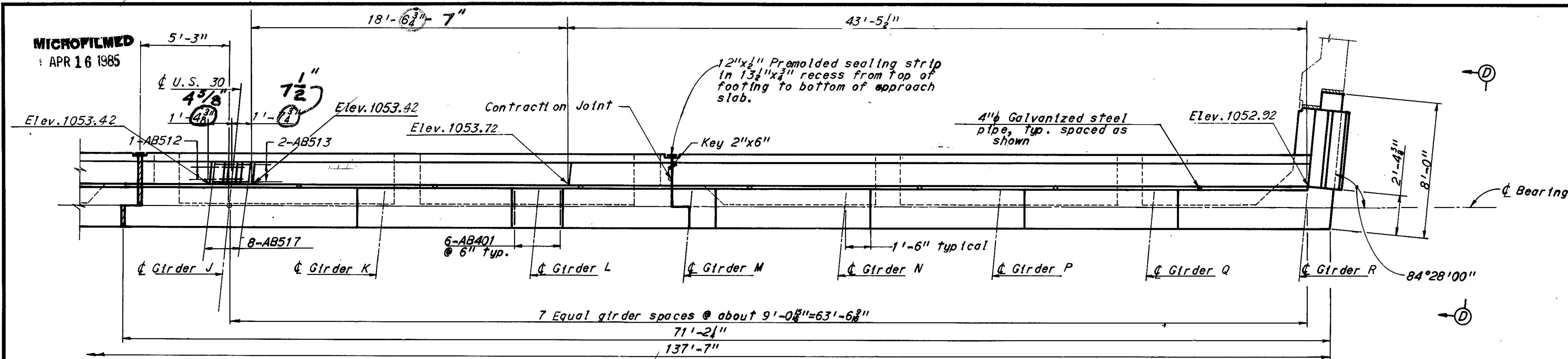
MARK	NUMBER	LENGTH	TYPE	DIMENSIONS			SERIES INCRE.	WEIGHT POUNDS
				A	B	C		
AB611	16	8'-6"	104	6'-9"	1'-11"			205
AB612	32	8'-3"	104	6'-3"	2'-2"			397
AB613	16	8'-5"	108	6'-6"	1'-11"	1'-4"		203
AB614	48	3'-10"	104	1'-11"	2'-1"			281
AB615	100	5'-9"	105	2'-7"	11"			864
AB616	8	4'-11"	115	3'-3"	9"			59
AB617	48	10'-1"	133					726
AB618	32	31'-3"	Str.					1,500
AB619	32	37'-6"	Str.					1,800
AB620	16	8'-11"	108	7'-0"	1'-11"	1'-3"		215
AB621	16	8'-6"	157	6'-9"	1'-11"	6 3/4"		204
DB801	91	5'-5"	141	3'-4"				1,317
AB801	184	15'-10"	100	14'-0"				7,779
AB901	54	60'-0"	Str.					11,000
AB902	27	27'-0"	Str.					2,480
AB1101	4	27'-0"	Str.					574
AB1102	4	11'-9"	104	11'-0"	1'-0"			250
AB1103	6	7'-3"	104	6'-6"	1'-0"			229
AB1104	36	27'-8"	139	21'-10"	6 3/4"			5,300
AB1105	36	18'-1"	101	16'-6"				3,460
AB1106	18	10'-10"	101	9'-3"				1,035
AB1107	2	25'-6"	Str.					271
SOUTHWEST WINGWALL								
WA501	2 Ser. 3	2'-0" to 8'-0"	Str.				3'-0"	32
WA502	2	36'-6"	Str.					76
WA503	8	43'-6"	Str.					364
WA504	31	2'-3"	105	7 1/2"	1'-3"			73
WA505	12	2'-9"	Str.					34
WA506	25	7'-3"	114	3'-5"				189
WA507	1 Ser. 5	8'-2" to 13'-8"	121	2'-9" to 5'-6"	1'-2"		1'-4 1/4"	57
WA508	2	7'-3"	Str.					15
WA509	6	4'-11"	104	4'-0 1/2"	1'-0"			31
WA510	1 Ser. 10	6'-8" to 17'-8"	121	2'-0" to 7'-6"	1'-2"		1'-2 3/4"	123
WA601	17	5'-6"	Str.					140
WA602	3	5'-11"	104	5'-6 1/2"	6"			27
WA603	23	6'-6"	Str.					234
WA604	25	4'-1"	115	2'-3"	9"	9"		153
WA605	31	5'-2"	104	4'-3 1/2"	1'-0"			240
WA606	6	7'-6"	Str.					68
WA607	2 Ser. 4	3'-3" to 14'-0"	Str.				3'-7"	104
WA608	6	9'-10"	100	8'-6"				89
WA609	4	9'-6"	109	2'-6"	2'-1"			57
WA610	10	2'-6"	Str.					38
WA611	1	3'-0"	Str.					5
WA612	8	9'-6"	Str.					114
WA613	10	9'-9"	Str.					146
WA614	27	10'-1"	133					409
WA615	10	16'-8"	Str.					248
WA616	2 Ser. 5	3'-6" to 8'-5"	Str.				1'-2 3/4"	89
WA617	2 Ser. 4	19'-9" to 15'-9"	Str.				1'-4"	213
WA618	10	15'-6"	Str.					232
WA619	2 Ser. 5	12'-9" to 9'-6"	Str.				9 3/4"	167



Notes:
All bar dimensions are given out to out.
All bars of a series shall vary in length by a constant increment.
For replacement reinforcement schedule see Sheet 224.

H.N.T.B. BRIDGE NO. 16		Revised 12-8-75		By RAS	
HOWARD, NEEDLES, TAMMEN & BERGENDOFF CONSULTING ENGINEERS KANSAS CITY CLEVELAND NEW YORK					
REINFORCEMENT SCHEDULE					
U.S. 30 OVER CHERRY AVENUE BR. NO. STA. 30-15-60 STA. 998+28.29 SCALE: STA. 999+26.26					
RELOCATED U.S. 30					
CANTON STARK COUNTY OHIO					
DRAWN BY DATE 11-5-70	TRACED DATE	CHECKED DATE 11-5-70	REVIEWED DATE 11-24-71	REVISED	
				1668	

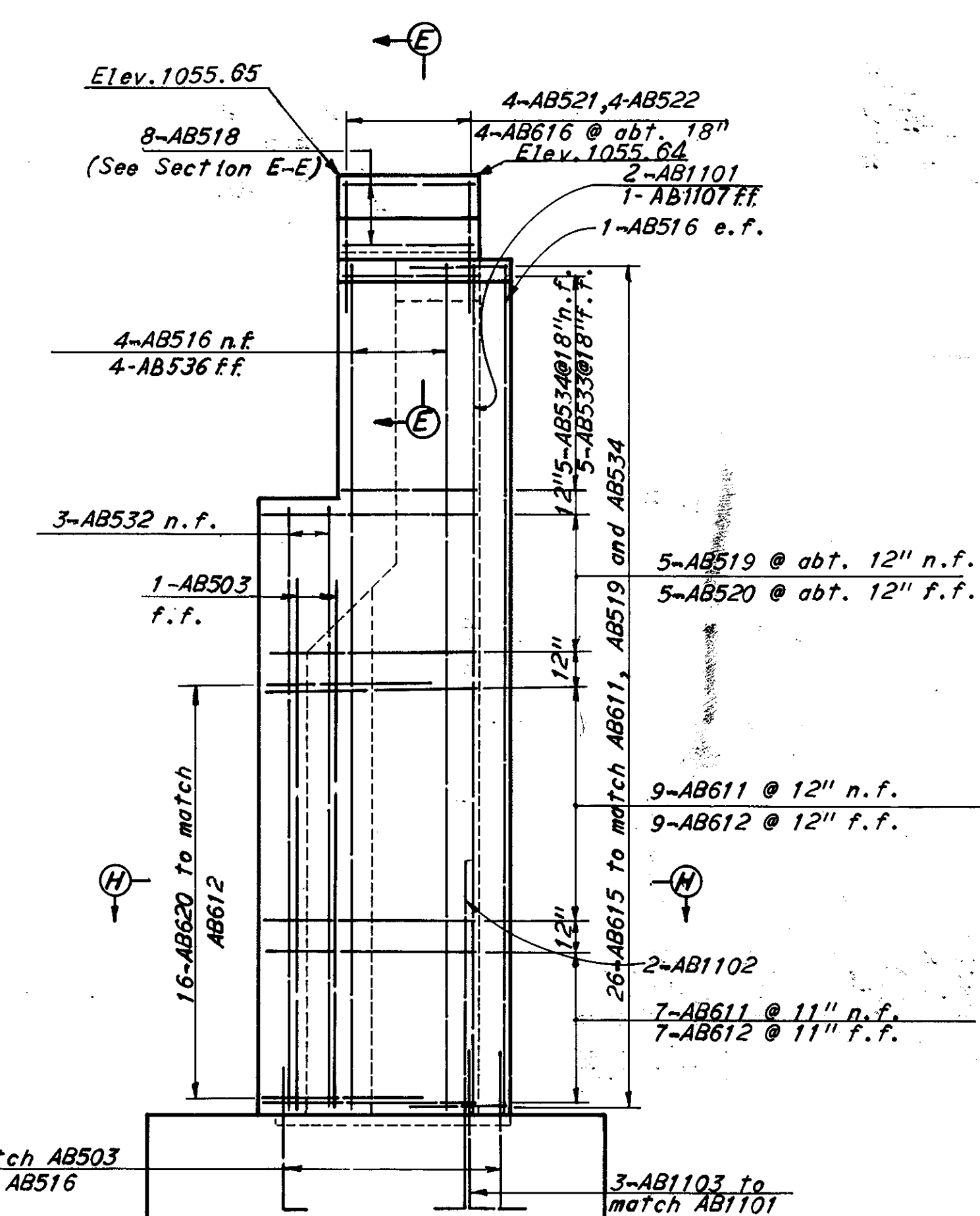
MICROFILMED
APR 16 1985



FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	TYPE FUNDS
2	OHIO		

272
299

STARK COUNTY
STA-30-15.04
STA-77-9.22



VIEW D-D

For notes and sections see Sheet 4/13

H.N.T.B. BRIDGE NO. 16		Revised 12-5-75	By RAS
HOWARD, NEEDLES, TAMMEN & BERGENDOFF			6 / 13
CONSULTING ENGINEERS			
KANSAS CITY CLEVELAND NEW YORK			
EAST ABUTMENT			
U.S. 30 OVER CHERRY AVENUE			
BR. NO. STA.-30-15.60		STA. 998 + 28.29	
SCALE: 1/4" = 1'-0"		STA. 999 + 26.26	
RELOCATED U.S. 30			
CANTON		STARK COUNTY	
OHIO			
DRAWN BY	TRACED	CHECKED	REVIEWED
DATE 7/28/70	DATE	DATE 8-12-70	DATE 11-24-71
		REVISOR	
		1668	

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS			SERIES INCR.	WEIGHT POUNDS
				A	B	C		
WB621	2 Ser. 4	6'-6"to5'-6"	Str.				2 ³ "	72
WB622	4	29'-0"	Str.					174
WB623	4	42'-6"	Str.					255
WB624	2	31'-5"	Str.					95
WB625	9	24'-9"	Str.					335
WB626	2	34'-6"	Str.					104
WB627	2	43'-6"	Str.					131
WB701	8	13'-2"	100	11'-6"				213
WB703	6	5'-2"	115	3'-6"	9"	7 $\frac{1}{2}$ "		63
WB801	2	14'-4"	100	12'-6"				76
WB1001	2	21'-6"	100	18'-8"				185
WB1002	2	9'-0"	101	7'-7"				76
							Total	5,759
SOUTHEAST WINGWALL								
WC501	2	41'-4"	Str.					87
WC502	8	48'-0"	Str.					402
WC503	33	2'-3"	105	7 $\frac{1}{2}$ "	1'-3"			77
WC504	27	7'-3"	114	3'-5"				204
WC505	14	2'-9"	Str.					40
WC506	4	4'-3"	Str.					18
WC507	2	7'-3"	Str.					15
WC508	6	4'-11"	104	4'-0 $\frac{1}{2}$ "	1'-0"			31
WC509	2 Ser. 3	2'-0"to10'-0"	Str.				4'-0"	38
WC510	1 Ser. 11	17'-8"to7'-8"	121	7'-6"to2'-6"	1'-2"		1'-0"	145
WC511	1 Ser. 7	6'-8"to13'-8"	121	5'-6"to2'-0"	1'-2"		1'-2"	74
WC601	23	6'-6"	Str.					225
WC602	17	5'-6"	Str.					140
WC603	8	9'-6"	Str.					114
WC604	6	7'-6"	Str.					68
WC605	6	9'-10"	100	8'-6"				89
WC606	4	9'-6"	109	2'-6"	2'-1"			57
WC607	2	43'-0"	Str.					129
WC608	2 Ser. 5	2'-0"to8'-6"	Str.				1'-7 $\frac{1}{2}$ "	77
WC609	8	15'-8"	Str.					188
WC610	2 Ser. 4	16'-6"to21'-4"	Str.				1'-7 $\frac{3}{4}$ "	226
WC611	2	23'-0"	Str.					69
WC612	4	29'-0"	Str.					174
WC613	2	29'-9"	Str.					89
WC614	2 Ser. 3	32'-0"to38'-3"	Str.				3'-1 $\frac{1}{2}$ "	319
WC615	2	38'-6"	Str.					115
WC616	4	47'-0"	Str.					288
WC617	8	2'-6"	Str.					30
WC618	2 Ser. 4	20'-3"to22'-3"	Str.				8"	255
WC619	9	28'-0"	Str.					379
WC620	26	5'-2"	104	4'-3 $\frac{1}{2}$ "	1'-0"			201
WC621	10	19'-6"	Str.					293

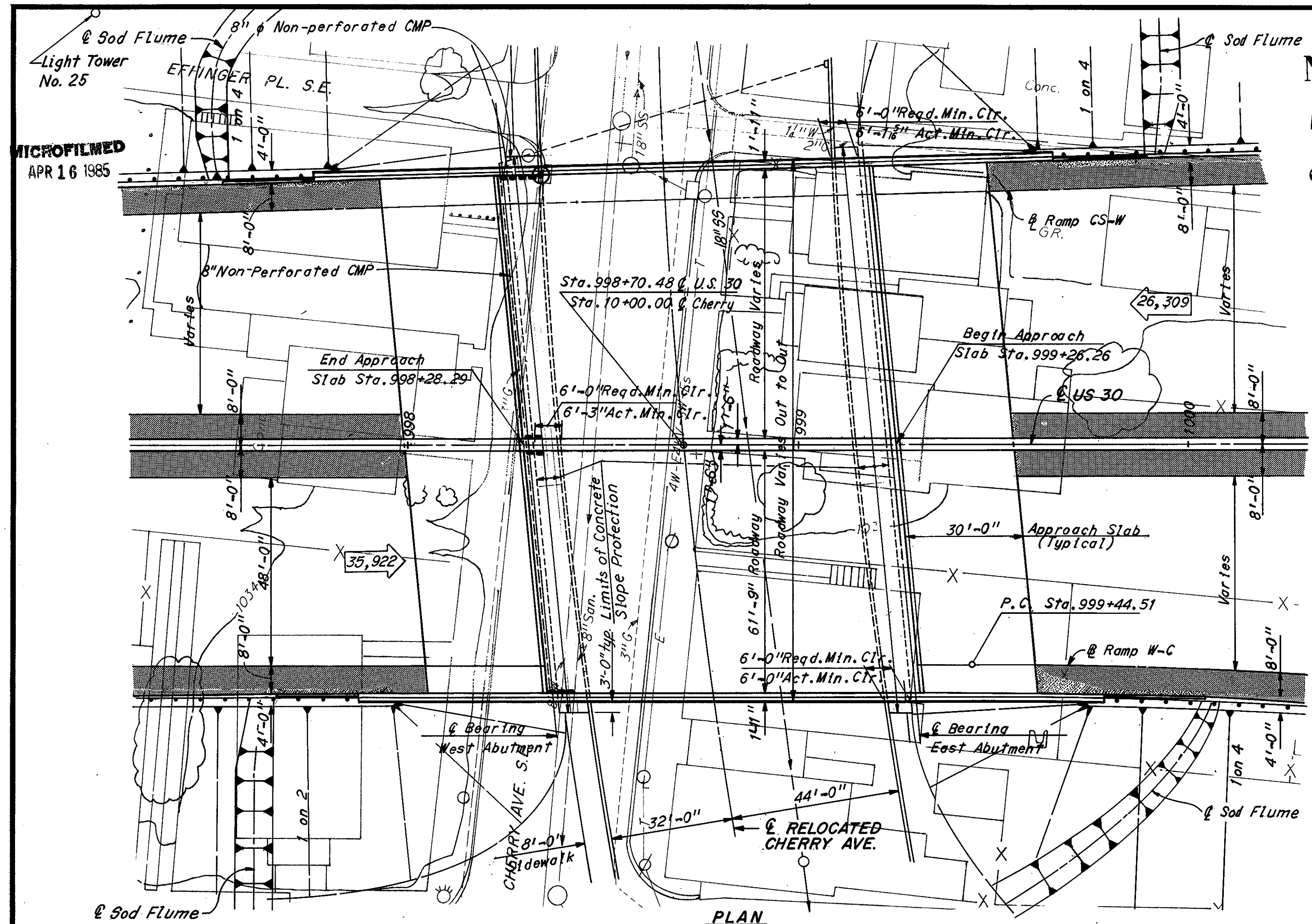
MICROFILMED
: APR 16 1985

FED ROAD DIV NO	STATE	FEDERAL AID PROJECT NO	TYPE FUNDS
2	OHIO		

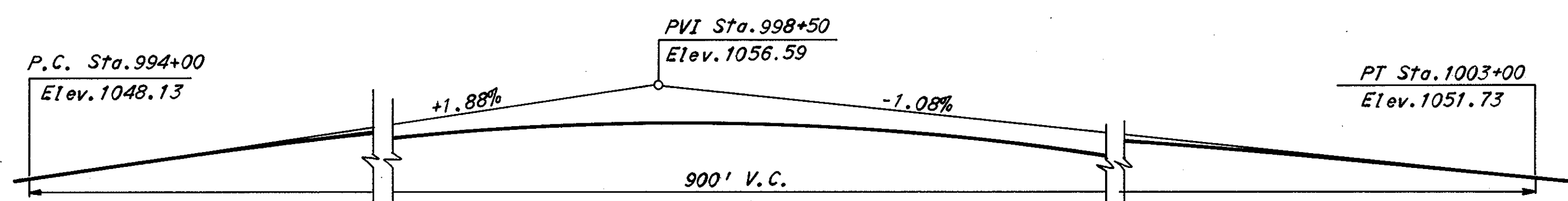
STARK COUNTY
STA-30-15.04
STA-77-9.22

For bending diagrams see Sheet 11/13

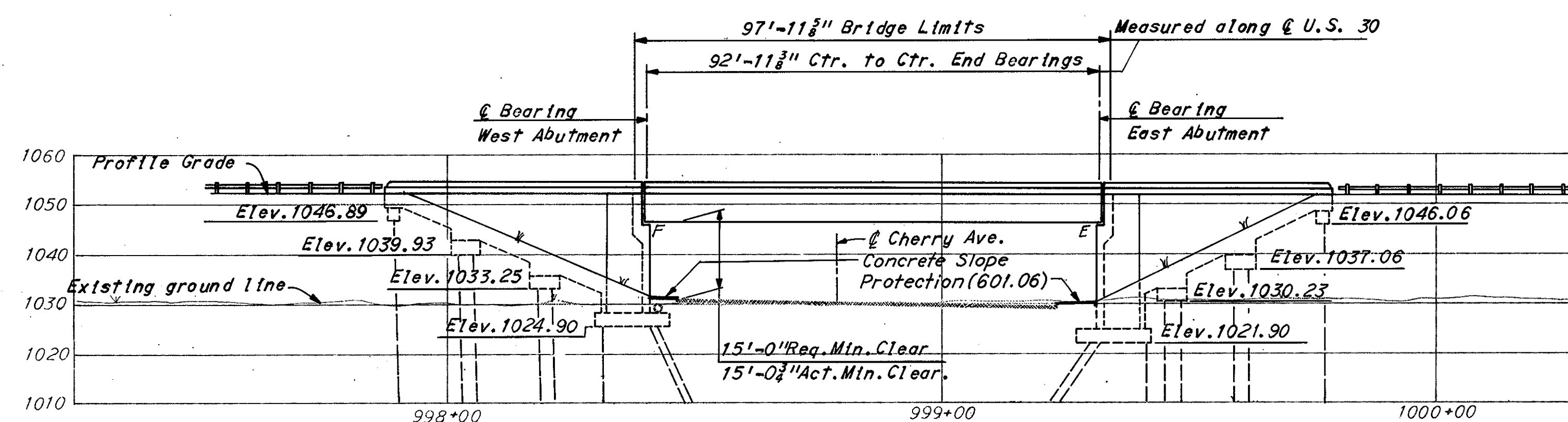
A.N.T.B. BRIDGE No. 16	Revised	12-8-75	By RAS
HOWARD, NEEDLES, TAMMEN & BERGENDOFF CONSULTING ENGINEERS KANSAS CITY CLEVELAND NEW YORK			12/13
<i>REINFORCEMENT SCHEDULE</i>			
U.S. 30 OVER CHERRY AVENUE BR. NO. STA. 30-15.60 STA. 998 + 28.29 SCALE: STA. 999 + 26.26			
RELOCATED U.S. 30			
CANTON		STARK COUNTY	
OHIO			
DRAWN	TRACED	CHECKED	REVIEWED
DATE	DATE	DATE	DATE
B D B 11-6-70		C Y K 11-6-70	11-24-11
			1668



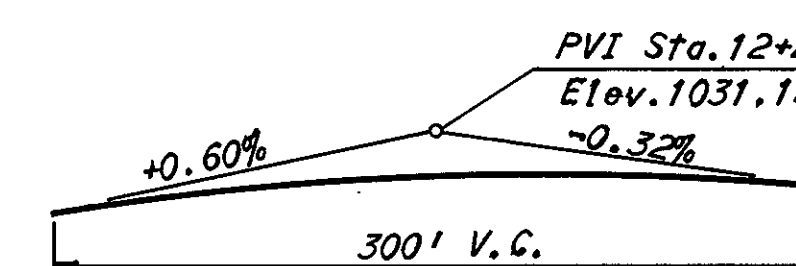
PLAN



PROFILE GRADE U.S. 30



ELEVATION



PROFILE GRADE - CHERRY AVE.

PROPOSED STRUCTURE

Type: Simple Span Welded Girder with Reinforced Concrete Slab.
Span: 92'-11 3/4" Ctr. to Ctr. End Bearings.
Roadway: Varies.
Loading: HS20-44, Case I and the Alternate Military Loading.
Skew: 5°37'53" Rt.
Wearing Surface: 2 1/2" Asphalt Concrete.
Approach Slabs: AS-1-72 (30' Long) (Modified).
Alignment: Tangent.

Modify Standard Drawing AS-1-72 by providing 3" Clear over the top reinforcing bars instead of the 2" shown on the Standard Drawing. The jacking holes as called out for on Standard Drawing AS-1-72 are not required.

EXISTING UTILITY LEGEND

- G --- Gas
- W --- Water
- SS --- Storm Sewer
- S --- Sanitary Sewer
- T --- Telephone
- E --- Power Lines
- 4W-E4KV 4 Wire, Primary 4 Kilovolt
- 3W-Es 3 Wire, Secondary
- Water Hydrant
- Manhole
- Catch Basin

Notes: The following items are not included in the bridge plans. See roadway plans for details.

1. Relocation or removal of existing utilities.
2. Approach grading, pavement and slabs.
3. Guardrails

26,309 Denotes one way average daily traffic. Earthwork limits shown are schematic. Actual slopes shall conform to plan cross-sections.

- Denotes point of minimum vertical clearance.
- Denotes Standard Scupper

All piles shall be 12" Ø cast-in-place concrete with an estimated average pile length of 70'-0" for both East and West abutments and an average estimated length of 85'-0" for wingwall footings. These estimates are based on boring data and are approximate only. The contractor shall assume full responsibility for the length of the piling selected for driving.

For lighting details see Lighting plans.
For Quantity Table See Sheet 201A.

The vertical curve data does not apply to elevations on the bridge or in the transition areas. Bridge elevations are in, above the elevations obtained from the vertical curve data. A uniform transition shall be provided within the 50 ft. from the end of the bridge.

H.N.T.B. BRIDGE NO. 16 Revised 12-4-75 By RAS
HOWARD, NEEDLES, TAMMEN & BERGENDOFF CONSULTING ENGINEERS
KANSAS CITY CLEVELAND NEW YORK

SITE PLAN

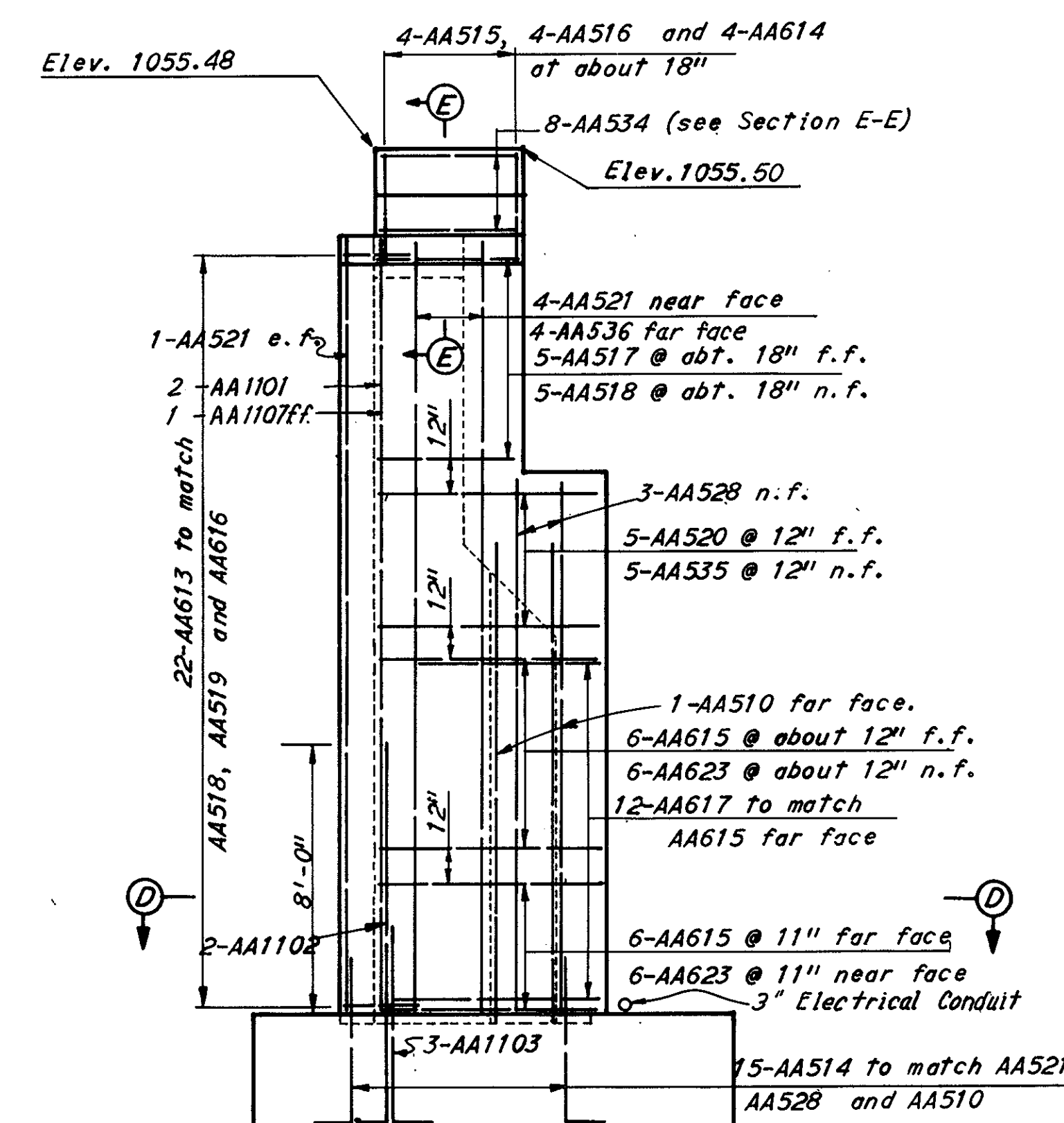
U.S. 30 OVER CHERRY AVENUE
BR. NO. STA-30-15.04 STA. 998+28.29
SCALE: 1" = 20' STA. 999+26.26

RELOCATED U.S. 30

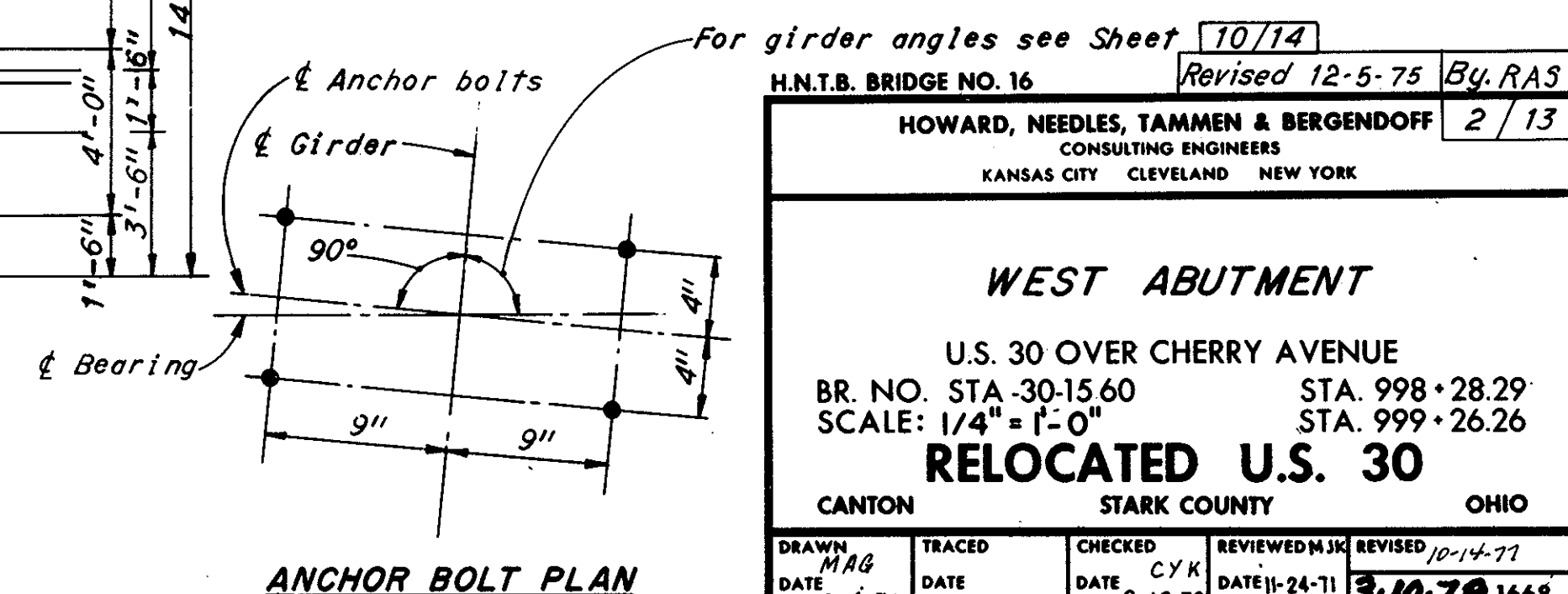
CANTON STARK COUNTY OHIO

DATE 8-10-70	TRACED DATE	CHECKED DATE 8-10-70	REVIEWED DATE 11-24-71	REVISOR 10-19-77
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APR 16 1985



For notes and sections see Sheet 4/13
Special care shall be taken when placing
reinforcing steel so as not to interfere with
anchor bolt setting.



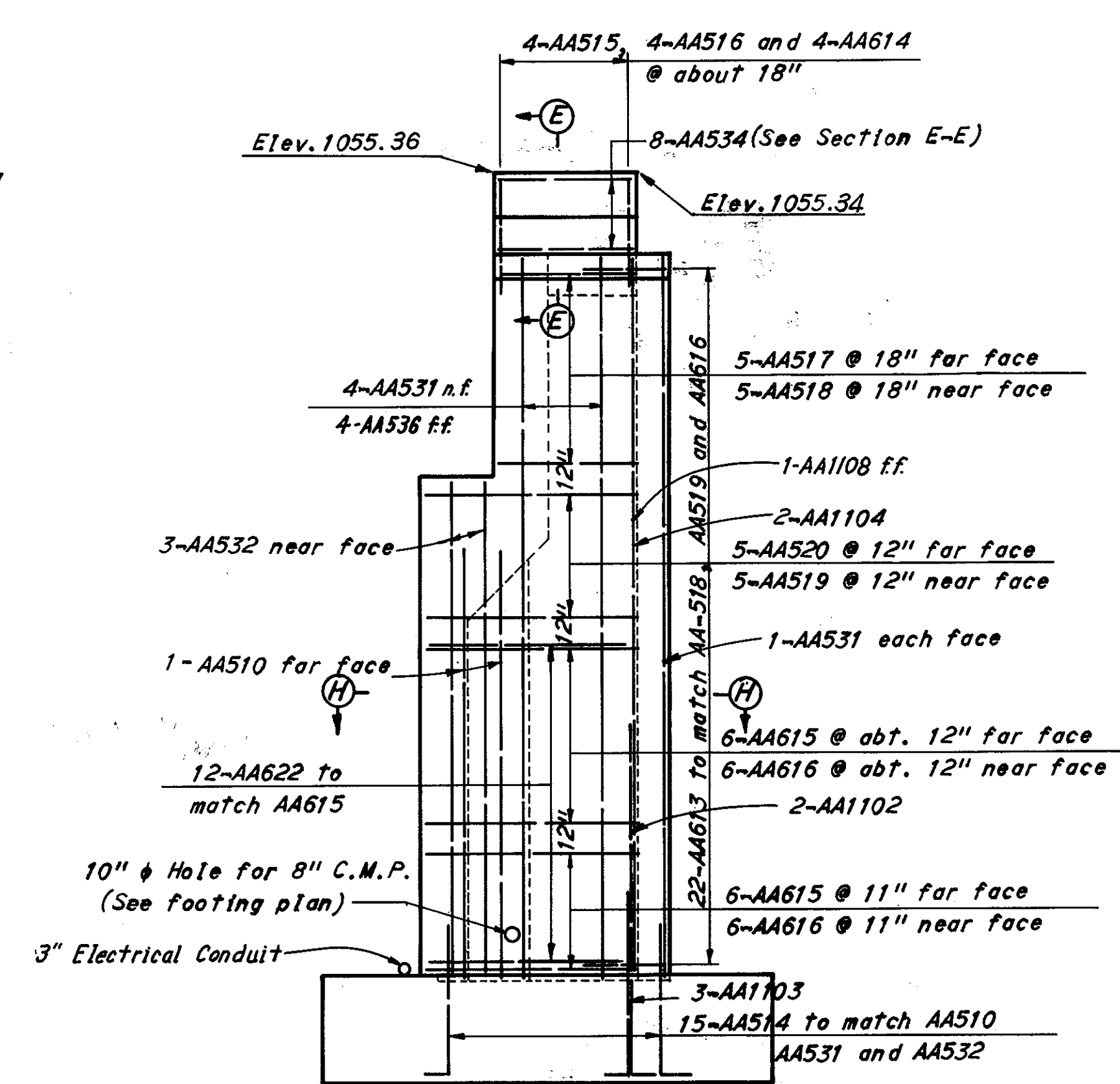
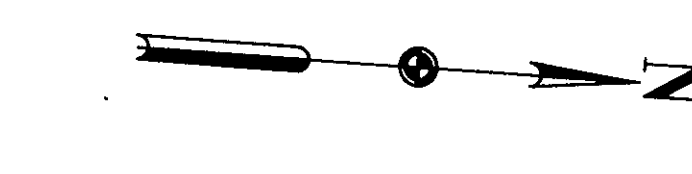
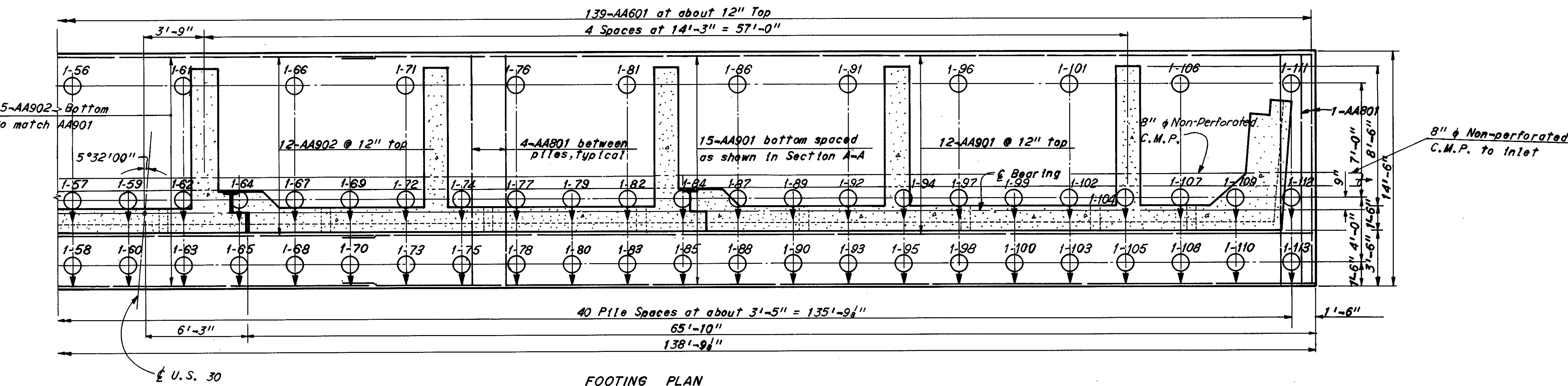
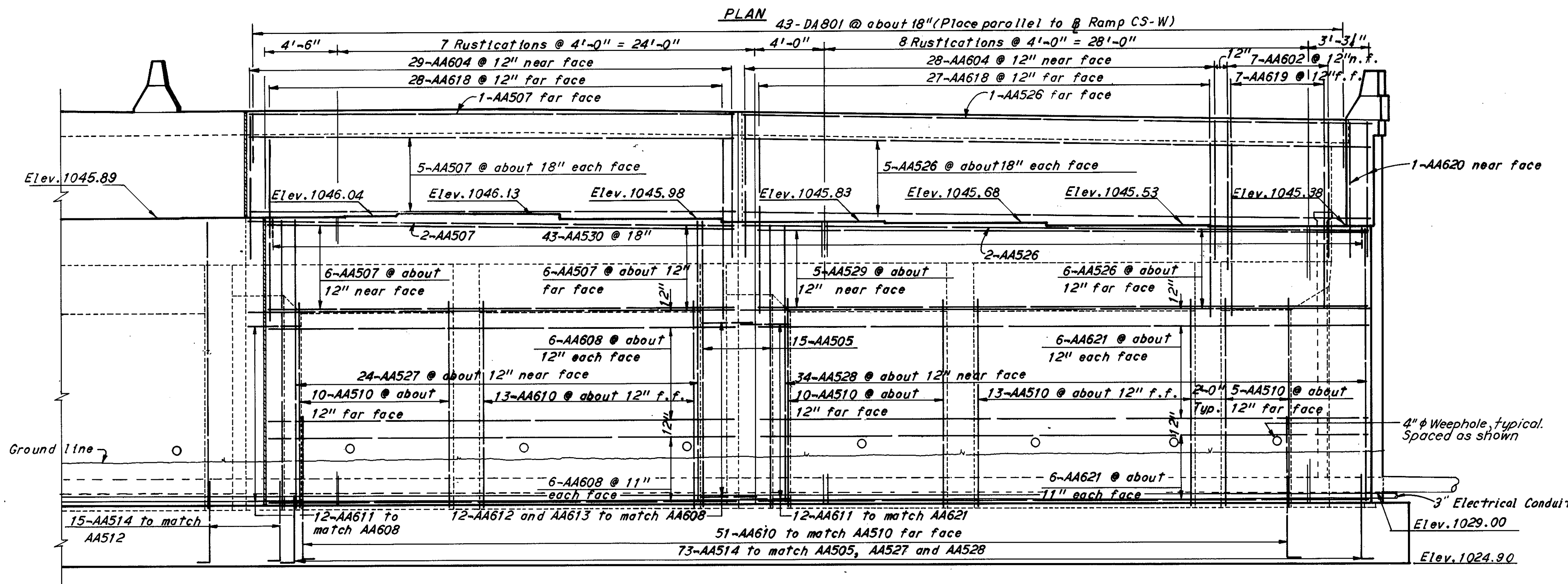
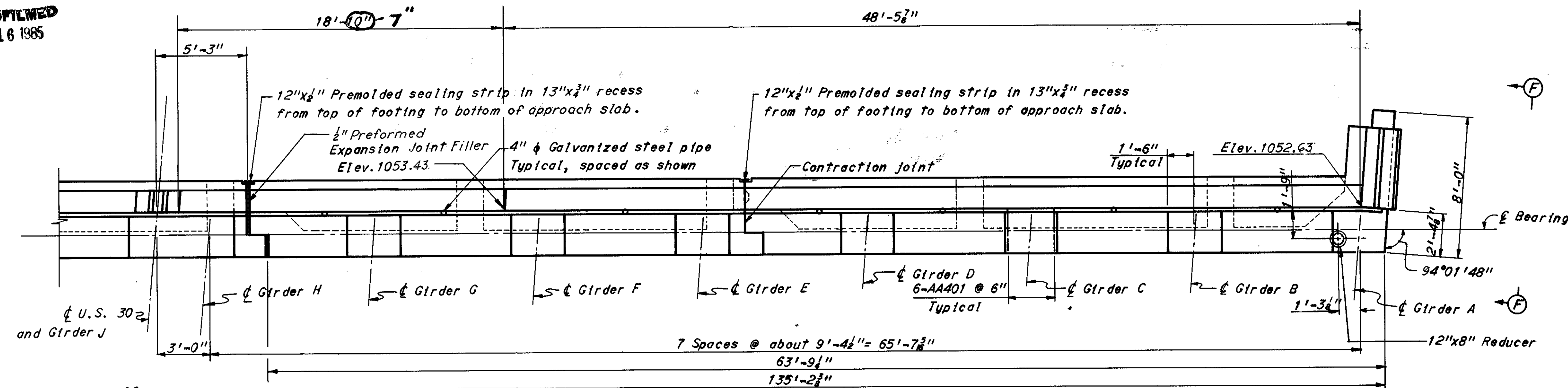
FOOTING PLAN

MICROFILMED
APR 16 1985

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	TYPE FUNDS
2	OHIO		

269
299

STARK COUNTY
STA-30-15.04
STA-77-9.22



VIEW F-F

For notes and sections see Sheet 4 / 13

H.N.T.B. BRIDGE NO. 16		Revised 12-5-75 By RAS	
HOWARD, NEEDLES, TAMMEN & BERGENDOFF CONSULTING ENGINEERS KANSAS CITY CLEVELAND NEW YORK			
WEST ABUTMENT			
U.S. 30 OVER CHERRY AVENUE			
BR. NO. STA. 30-15.60		STA. 998+28.29	
SCALE: 1/4" = 1'-0"		STA. 999+26.26	
RELOCATED U.S. 30			
CANTON		STARK COUNTY OHIO	
DRAWN MAG DATE 5-15-70	TRACED DATE	CHECKED CYK DATE 8-10-70	REVIEWED MJK DATE 11-24-71 3-10-78 1668

Backwall Concrete :
In addition to the provisions of 511.08, backwall concrete or backwall concrete above the optional construction joint at the approach slab seat shall not be placed until after the deck concrete in the span adjacent to the abutment has been placed.



Note: Section B-B is shown at expansion joint. Section at contraction joint is similar except for expansion joint filler, tar paper and bar marks. Section B-B for East Abutment is similar except for bar marks.



H.N.T.B. BRIDGE NO. 16		Revised 12-5-75		By RAS	
HOWARD, NEEDLES, TAMMEN & BERGENDOFF CONSULTING ENGINEERS KANSAS CITY CLEVELAND NEW YORK				4 / 13	
ABUTMENT DETAILS					
U.S. 30 OVER CHERRY AVENUE BR. NO. STA. 30-15 60 STA. 998 + 28.29 SCALE: 1/4" = 1' - 0" STA. 999 + 26.26					
RELOCATED U.S. 30					
CANTON		STARK COUNTY		OHIO	
DRAWN <i>B.M.</i>	TRACED	CHECKED	REVIEWED <i>MJK</i>	REVISED	<i>10-14-77</i>
DATE <i>8/3/70</i>	DATE	DATE <i>8-11-70</i>	DATE <i>11-24-71</i>		
				1668	

